

5991-02-57

**COUNTY:**

# LA CROSSE

JANUARY 2018

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 (Includes Erosion Control Plan) |
| Section No. 6            | Standard Detail Drawings                         |
| Section No. 7            | Sign Plates                                      |
| <del>Section No. 8</del> | <del>Structure Plans</del>                       |
| Section No. 9            | Computer Earthwork Data                          |
| Section No. 9            | Cross Sections                                   |

TOTAL SHEETS = 132

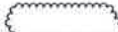


## DESIGN DESIGNATION

|                 | <u>WEST*</u> | <u>EAST*</u> |
|-----------------|--------------|--------------|
| A.A.D.T. (2018) | 2100         | 6000         |
| A.A.D.T. (2038) | 2500         | 6700         |
| D.H.V.          | 405          | 915          |
| D.D.            | 59/41        | 59/41        |
| T.              | 2.8%         | 2.8%         |
| DESIGN SPEED    | 30 MPH       | 30 MPH       |
| ESALS           | 167,900      | 481,800      |

\*DIVIDING LINE IS EAST AVENUE

### CONVENTIONAL SYMBOLS

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

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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

### PLAN OF PROPOSED IMPROVEMENT

# CITY OF ONALASKA, RIDERS CLUB ROAD

STH 35 TO SAND LAKE ROAD/CTH S

## LOCAL STREET

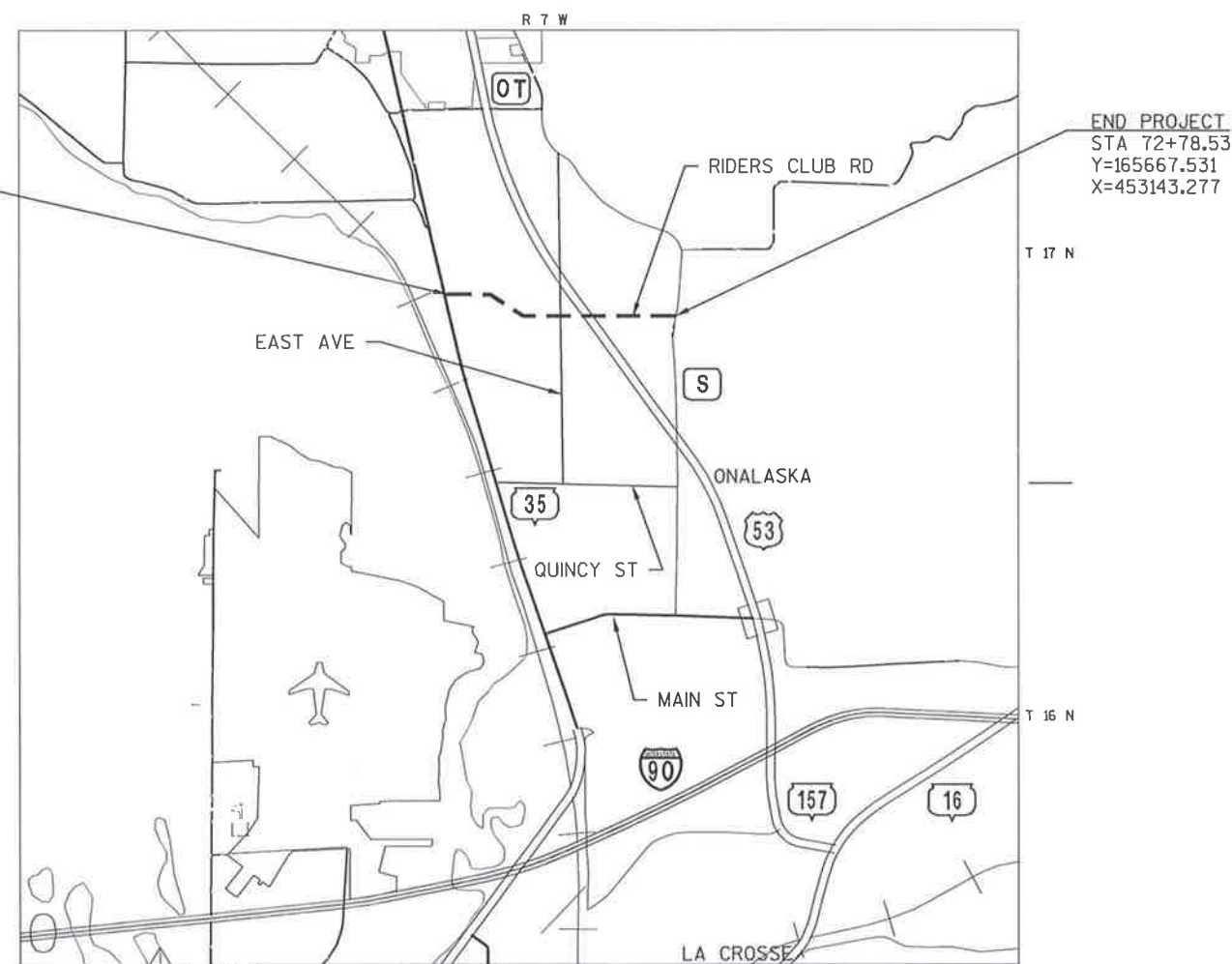
LA CROSSE COUNTY

|                      |
|----------------------|
| STATE PROJECT NUMBER |
| 5991-02-57           |

## AS-BUILT PLAN

**SUPERVISOR:** Jim Savoldelli  
**PROJECT MANAGER:** Brian Meyer  
**PROJECT LEADER:** Lorie Peterson  
**CONTRACTOR:** Gerke Excavating, Inc.  
**WORK STARTED:** 4/23/2018  
**WORK COMPLETED** 8/31/2018  
**Subcontractor List**  
Barricade Flasher Service  
Brickline, Inc.  
Chippewa Concrete Services, Inc.  
Hard Rock Sawing & Drilling  
Heider & Bott Co.  
Mathy Construction Company  
Poellinger Electric, Inc.  
Smith Restorations, Inc.

Sheets revised: 10, 12, 18, 26, 27, 35, 47, 49, 50, 52



SCALE 0 1 MILES

TOTAL NET LENGTH OF CENTERLINE = 1.157 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, LA CROSSE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

| STATE PROJECT | FEDERAL PROJECT |          |
|---------------|-----------------|----------|
|               | PROJECT         | CONTRACT |
| 5991-02-57    | WISC 2018044    | 1        |
|               |                 |          |
|               |                 |          |
|               |                 |          |

ACCEPTED FOR  
CITY OF ONALASKA

7-17-17 C. Fred B...  
DATE CITY ENGINEER

ORIGINAL PLANS PREPARED BY



7/14/2017 (Date) Jeremy J. Tarned (Signature)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

|                       |                |
|-----------------------|----------------|
| PREPARED BY           |                |
| Surveyor              | SEH            |
| Designer              | SEH            |
| Management Consultant | KL Engineering |

APPROVED FOR THE DEPARTMENT

DATE: 7/31/17



Management Consultant Signature

GENERAL NOTES

1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

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

3. CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED TO A 4-INCH TYPICAL DEPTH.

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

5. THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

6. ASPHALTIC AND CONCRETE SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

7. DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED, SEEDED AND MULCHED.

8. STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE FINAL LOCATIONS OF SIGNS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

9. A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE 1 1/4-INCH.
10. A CONVERSION FACTOR OF 112 LBS/IN/SY IS USED TO ESTIMATE QUANTITIES FOR HMA PAVEMENT.

11. MAINTAIN EXISTING GUTTER FLOW AS INDICATED BY THE GRADES AND FLOW ARROWS SHOWN ON THE DRAWINGS. ADJUST BACK OF CURB AND FLAG OF CURB GRADES SO THAT THE CURB & GUTTER GRADES DO NOT EXCEED THE GRADES SHOWN ON THE TYPICAL RAMP SECTION.

12. CURB TAPERS AT RAMPS ARE 2 FEET LONG UNLESS OTHERWISE NOTED.

13. MAXIMUM SLOPES AT BACK OF SIDEWALK ARE 10:1 OR FLATTER UNLESS OTHERWISE NOTED.

14. CURB TAPERS AT RAMPS ARE 2 FEET LONG UNLESS OTHERWISE NOTED.

15. CONSTRUCTION OF TEMPORARY ACCESS POINTS TO RESIDENCES AND BUSINESS IS INCIDENTAL TO THE PROJECT.

16. INLET PROTECTION TYPE C IS UTILIZED THROUGHOUT THE PROJECT. SEE MISCELLANEOUS QUANTITY TABLE FOR LOCATIONS.

18. CONTRACTOR TO KEEP ALL ROADWAYS OUTSIDE OF PROJECT LIMITS CLEAN AND FREE OF DEBRIS.

ORDER OF SHEETS-SECTION 2

GENERAL NOTES  
TYPICAL SECTIONS  
INTERSECTION DETAILS  
SIGNING AND PAVEMENT MARKING  
CONSTRUCTION STAGING

UTILITY CONTACT LIST

Dairyland Power

Jane Eggen  
P.O. Box 817  
La Crosse, WI 54602  
608.788.4000  
jane.eggen@dairylandpower.com

Xcel Energy (Electricity)

Scott Roberts  
3215 Commerce Street  
La Crosse, WI 54603  
608.789.3625  
scott.w.roberts@xcelenergy.com

DNR Liaison Contact

Karen Kalvelage  
DNR Service Center  
3550 Mormon Coulee Road  
La Crosse, WI 54601  
608.785.9115  
karen.kalvelage@wisconsin.gov

Charter Communications

Perry McClellan  
1228 12th Ave S  
Onalaska, WI 54650  
715.370.7140  
Perry.McClellan@chartercom.com

Xcel Energy (Gas)

Ed Przytarski  
3215 Commerce Street  
La Crosse, WI 54603  
608.789.3631

City of Onalaska

Jarrold Holter, PE  
City Engineer  
608.781.9537  
jholter@cityofonalaska.com

CenturyLink

Brian Stelplugh  
333 N Front St  
La Crosse, WI 54601  
608.796.5543 / 608.796.5142(cell)  
brian.stelplugh@centurylink.com

Riverland Energy

Tim Holtan  
N29988 State Road 93  
Arcadia, WI 54612  
608.797.0102 (cell)  
608.323.3381 (office)  
tholtan@riverlandenergy.com

CONSULTANT DESIGN

JEREMY TOMESH  
SEH INC.  
312 SOUTH 3RD STREET  
LA CROSSE, WI 54601  
PHONE: (608) 498-4947  
EMAIL: JTOMESH@SEHINC.COM

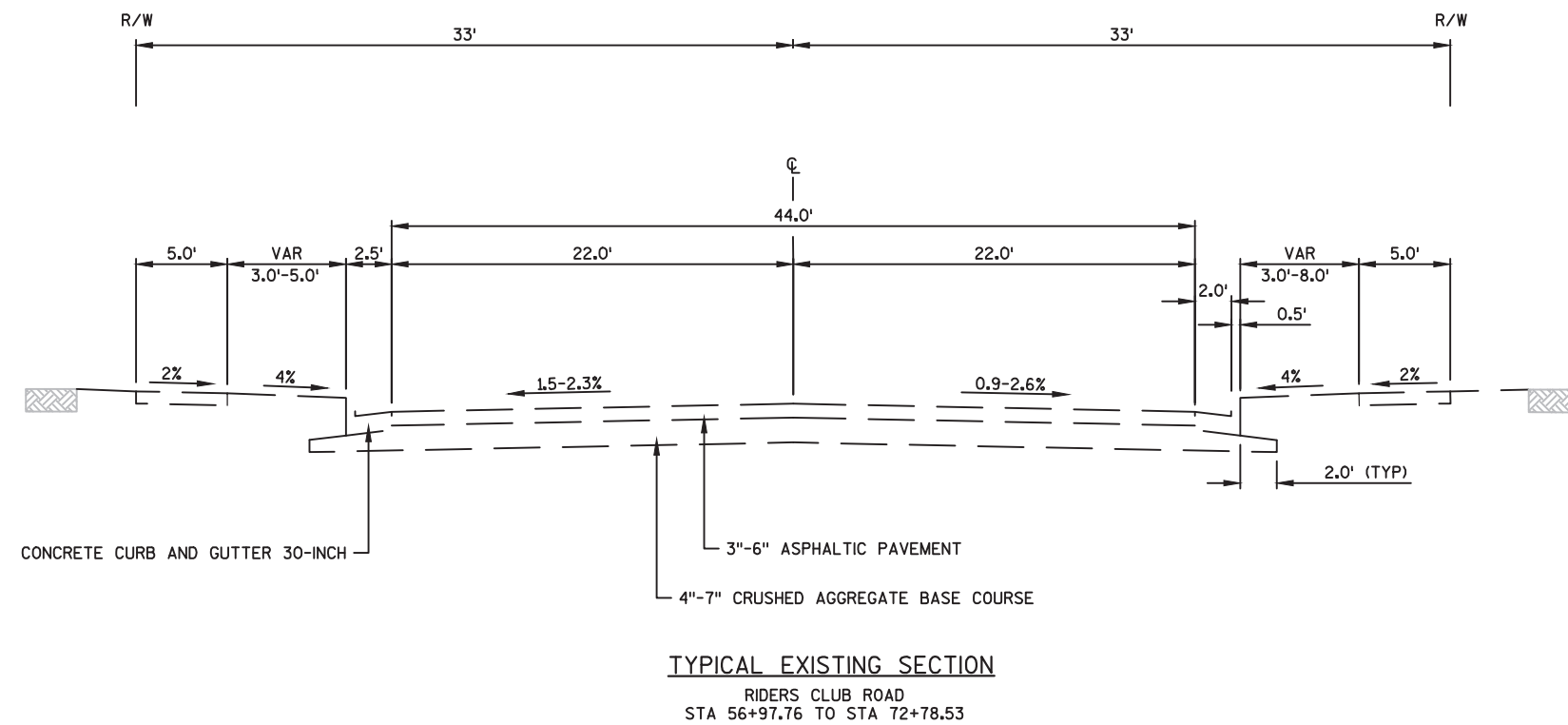
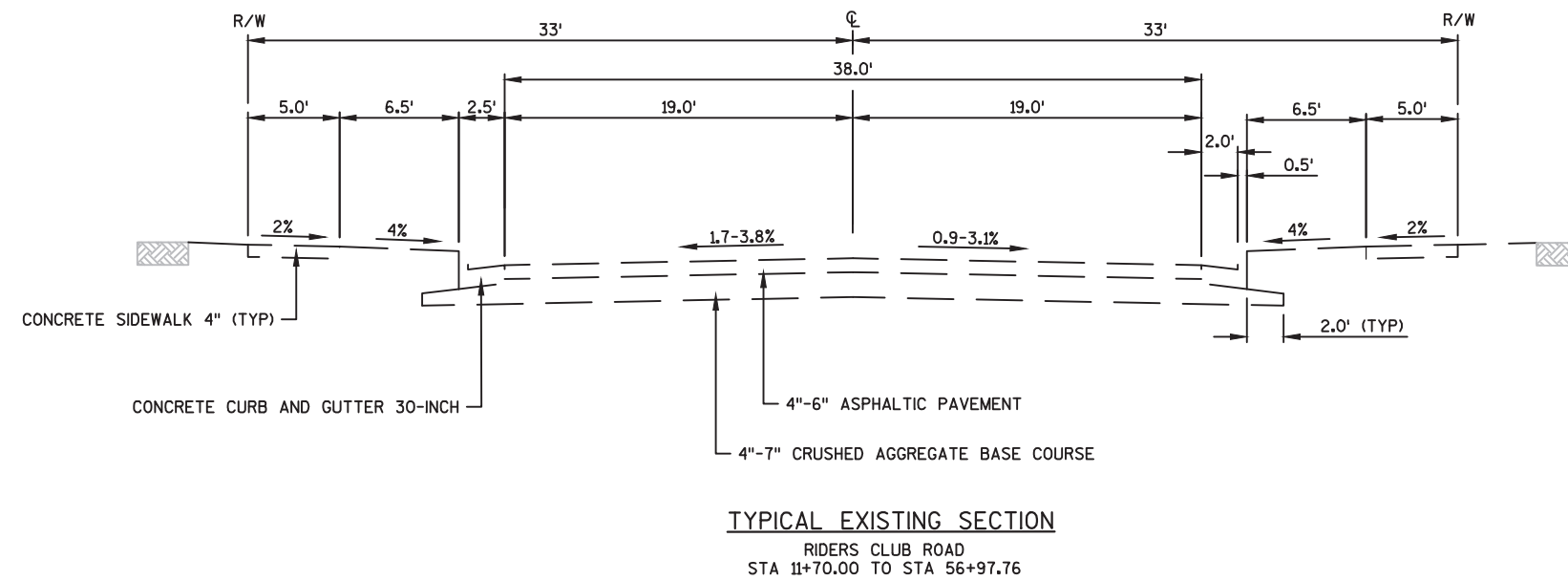
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

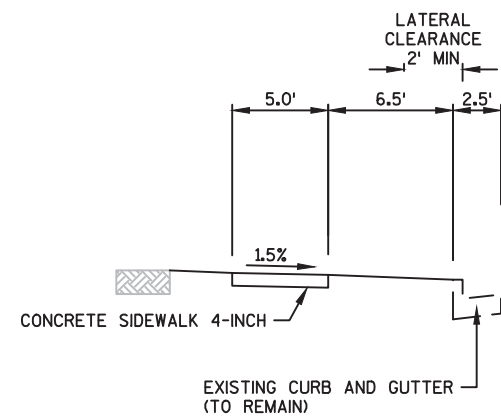


Dial 811 or (800)242-8511

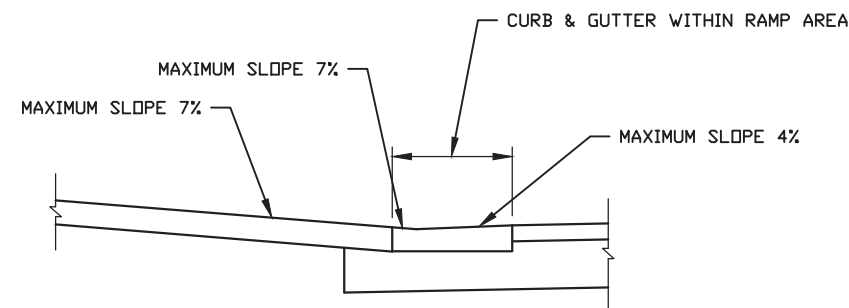
www.DiggersHotline.com

\*\*DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

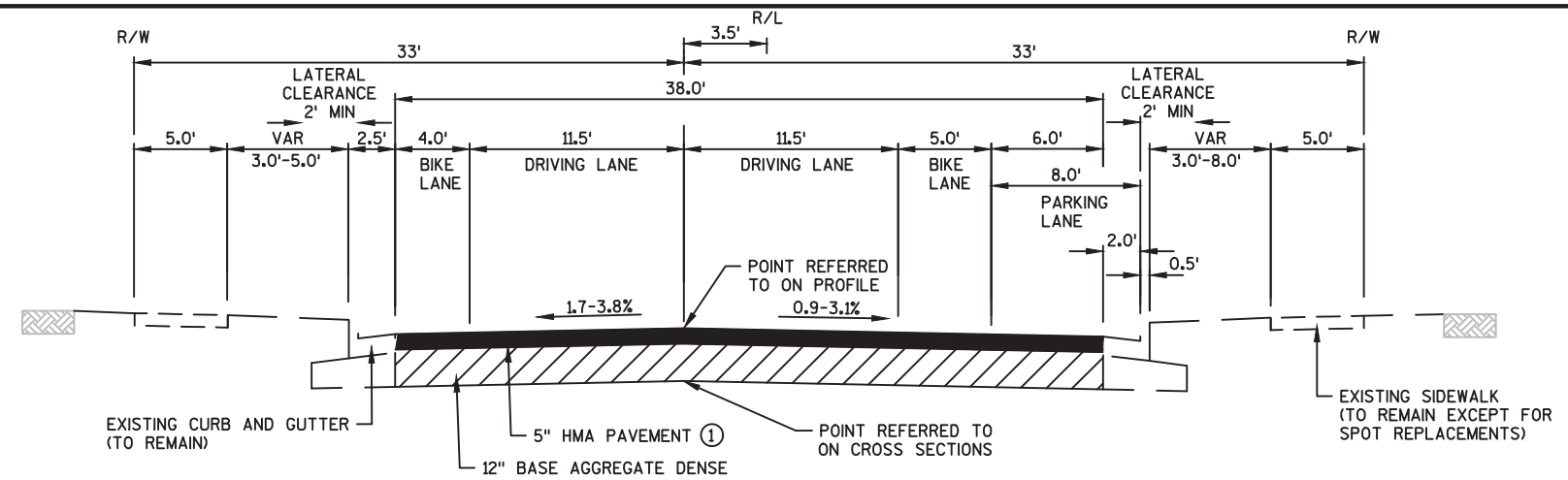




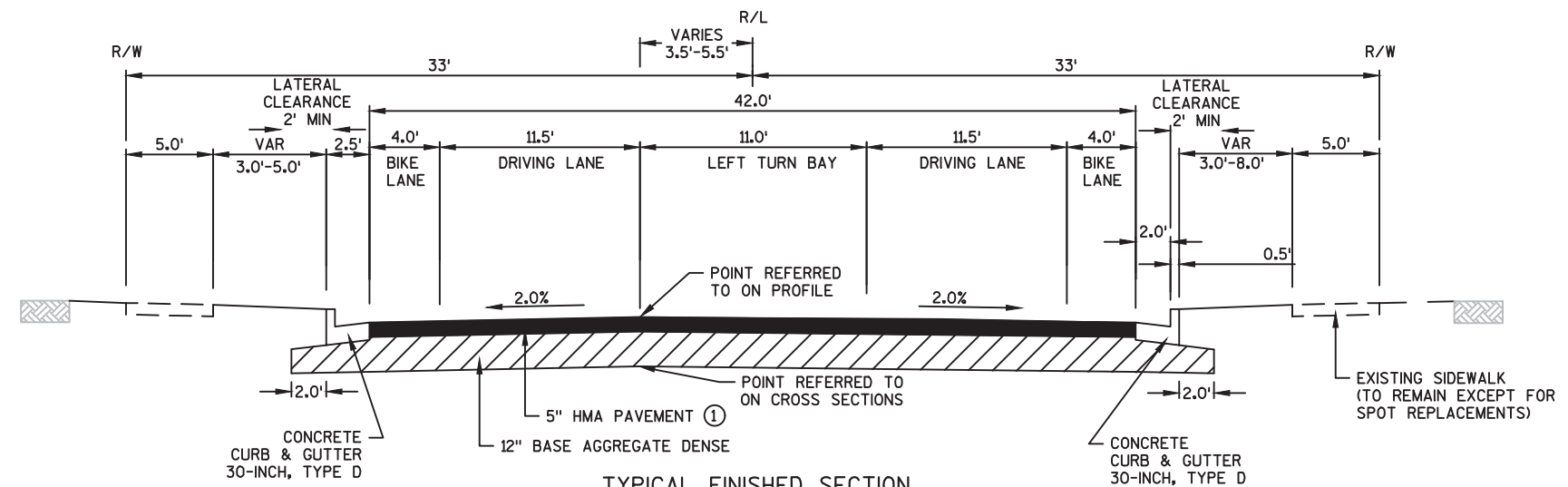
**TYPICAL FINISHED PARTIAL SECTION**  
NEW SIDEWALK INSTALLATION



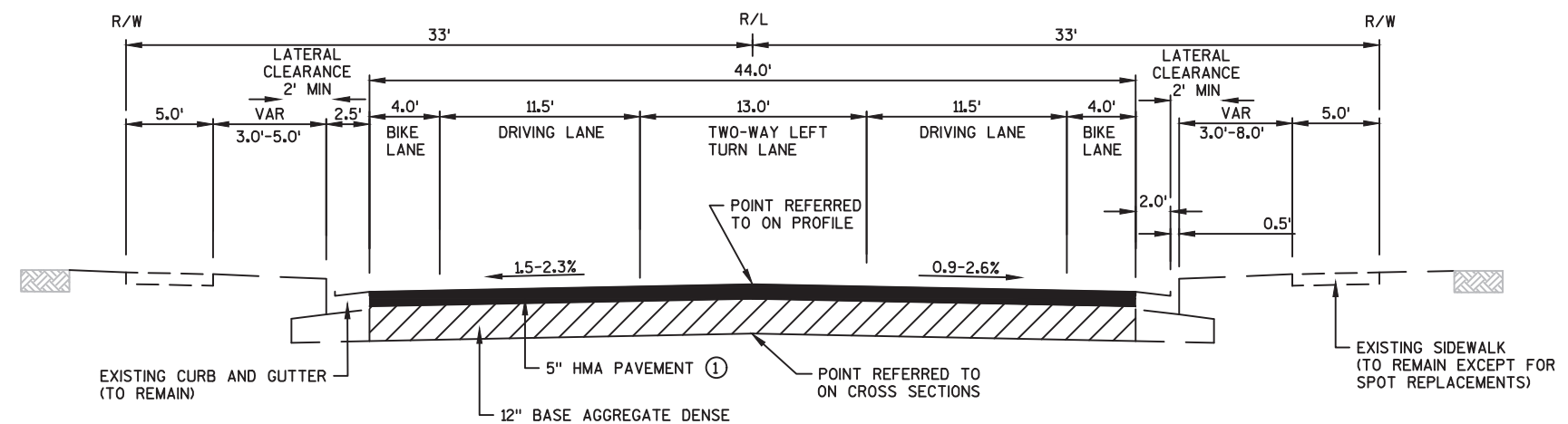
**TYPICAL RAMP SECTION**



**TYPICAL FINISHED SECTION**  
RIDERS CLUB ROAD  
STA 11+70.00 TO STA 54+00.00



**TYPICAL FINISHED SECTION**  
RIDERS CLUB ROAD  
STA 54+00.00 TO STA 57+60.00

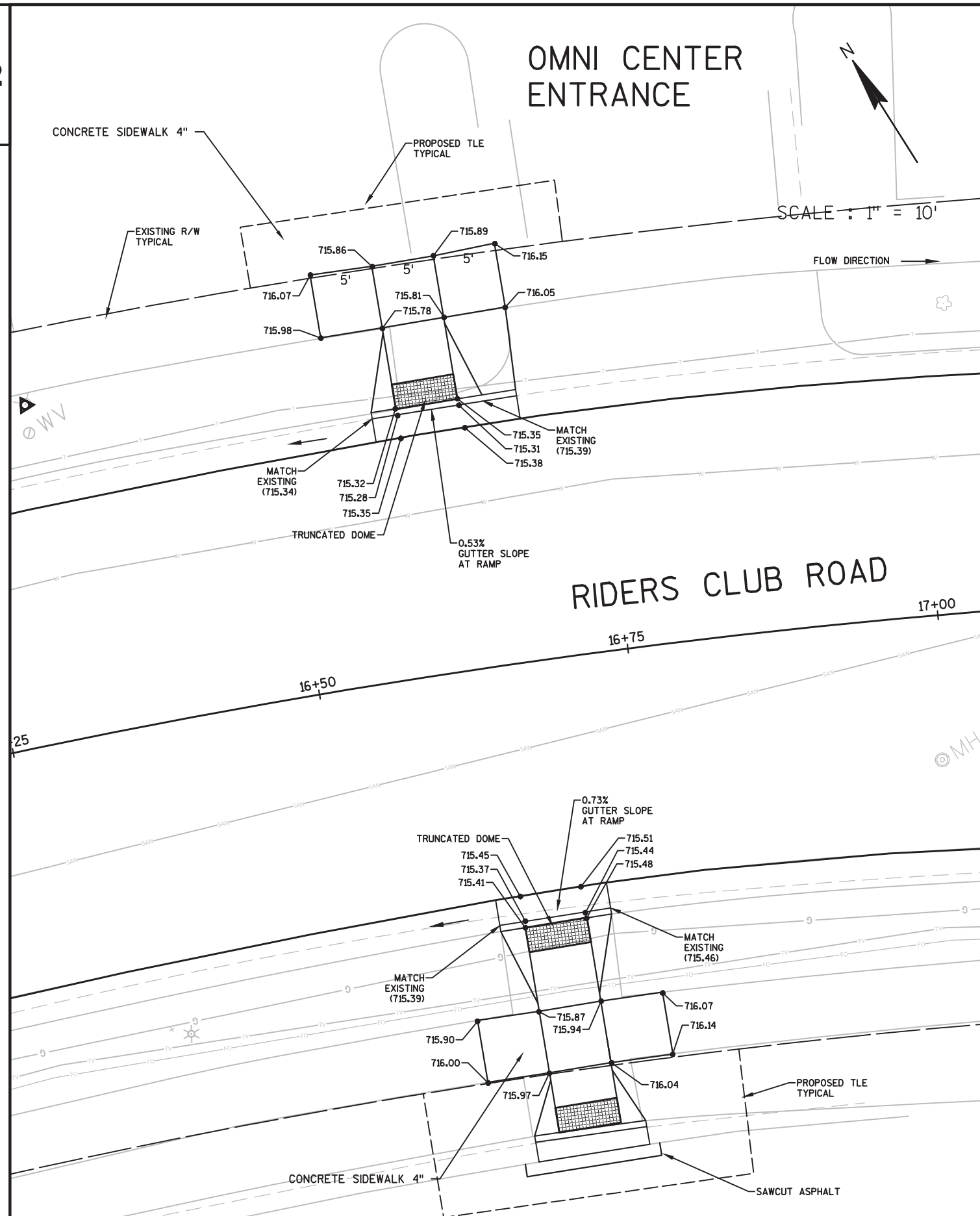


**TYPICAL FINISHED SECTION**  
RIDERS CLUB ROAD  
STA 57+60.00 TO STA 71+00.00

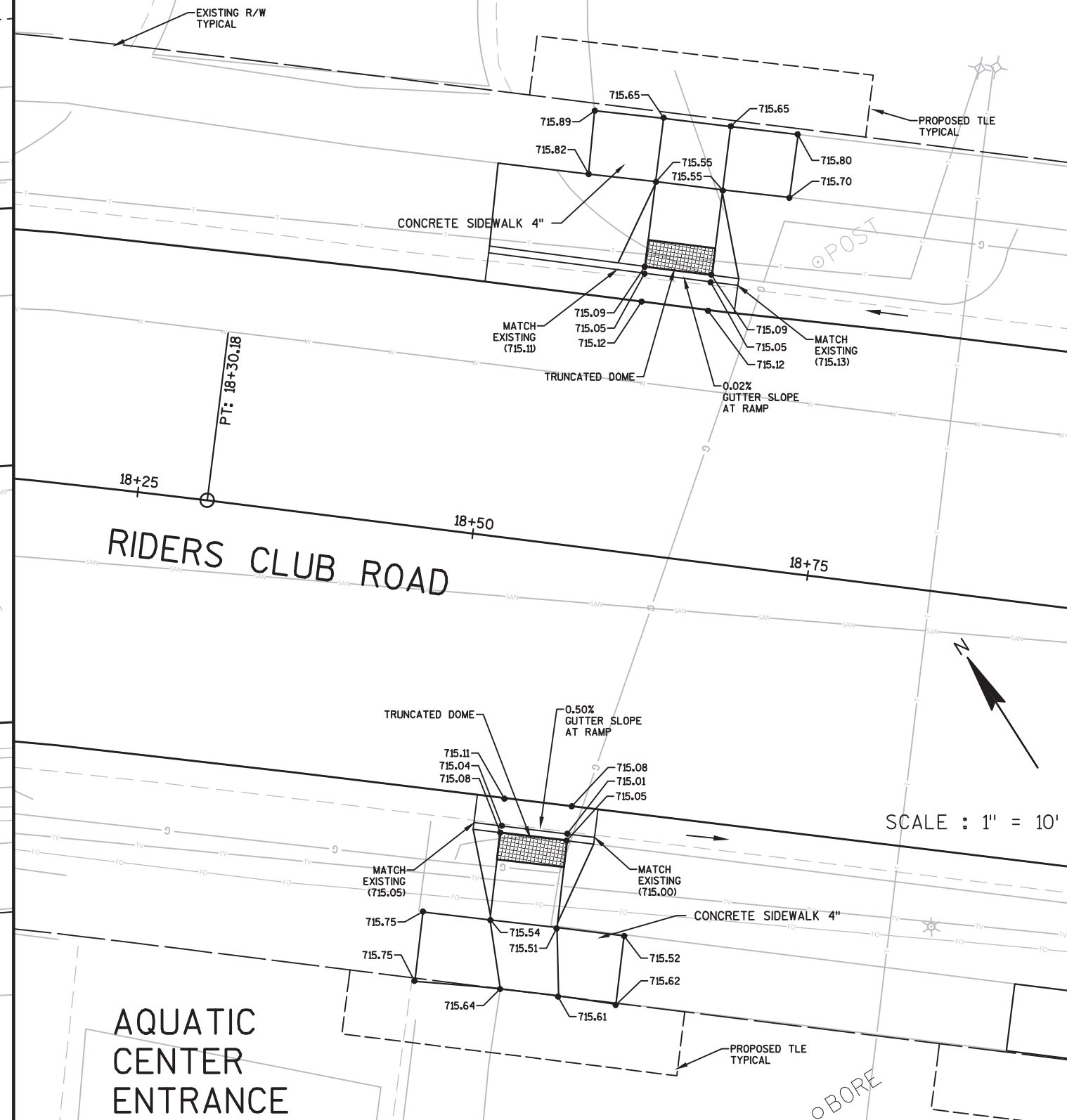
- ① 5" HMA PAVEMENT TO BE CONSTRUCTED IN 2 LAYERS
- 2.5" HMA PAVEMENT 4 LT 58-28 S UPPER LAYER
  - 2.5" HMA PAVEMENT 3 LT 58-28 S LOWER LAYER

OMNI CENTER  
ENTRANCE

SCALE : 1" = 10'

EAST  
OMNI CENTER  
ENTRANCE

SCALE : 1" = 10'



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

RIDERS CLUB ROAD &amp; CROSSWALKS AT STA 16+60 &amp; 18+50

SHEET

5

E

# 2



|                                                                                    |                      |                              |                  |                         |   |
|------------------------------------------------------------------------------------|----------------------|------------------------------|------------------|-------------------------|---|
| PROJECT NO:5991-02-57                                                              | HWY:RIDERS CLUB ROAD | COUNTY:LA CROSSE             | RIDERS CLUB ROAD | SHEET 6                 | E |
| FILE NAME : \\SEHLX1\PROJECTS\K0\0\NALA\133149\C3D\SHEETSPLAN\021101-ID-RIDERS.DWG |                      | PLOT DATE : 1/6/2017 9:27 AM |                  | PLOT BY : TOREY LEONARD |   |
| LAYOUT NAME - 021101-ID-RIDERS - 4                                                 |                      | PLOT NAME :                  |                  | PLOT SCALE : 1 IN:10 FT |   |
| WISDOT/CADDs SHEET 42                                                              |                      |                              |                  |                         |   |

# 2

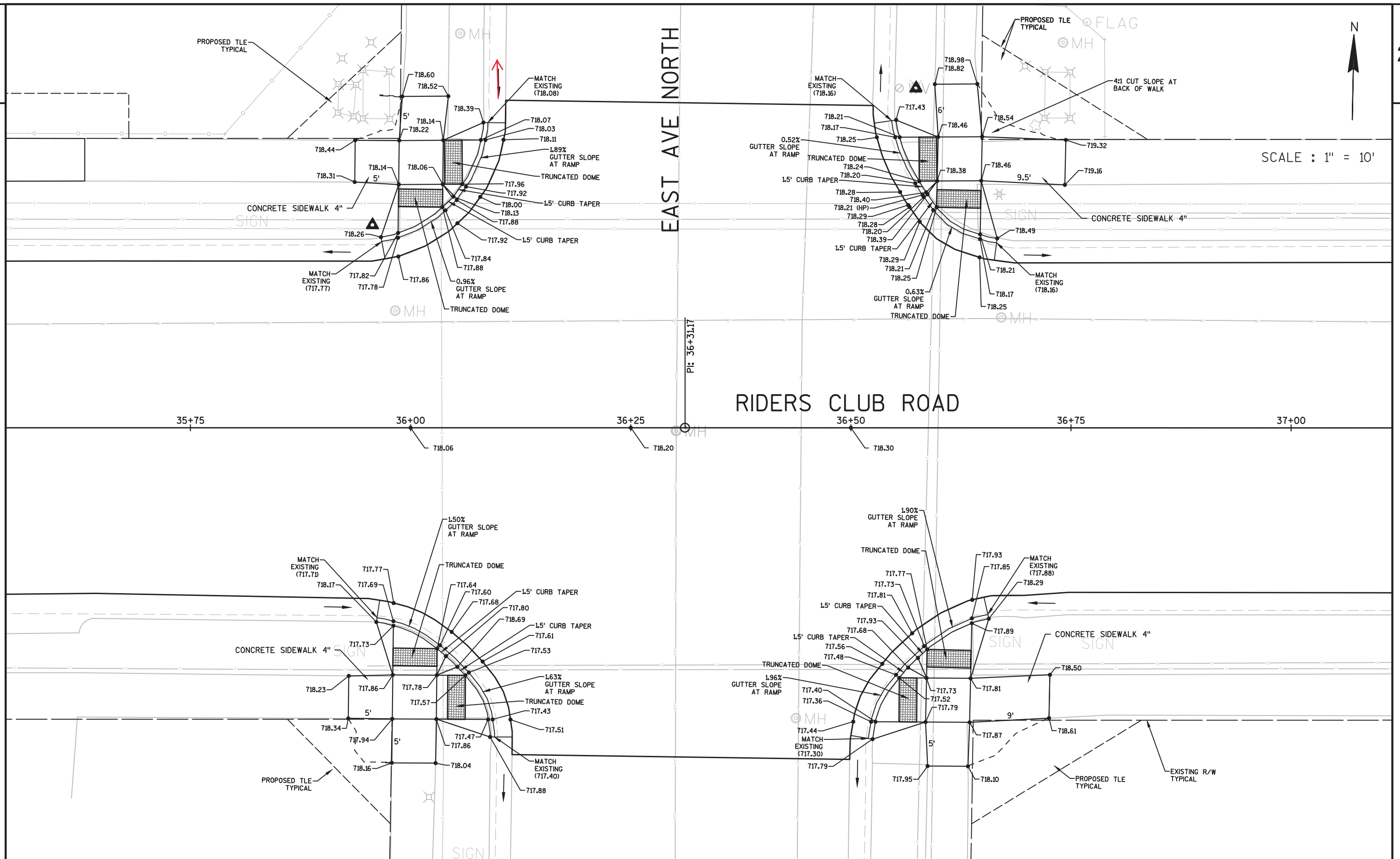


# 2



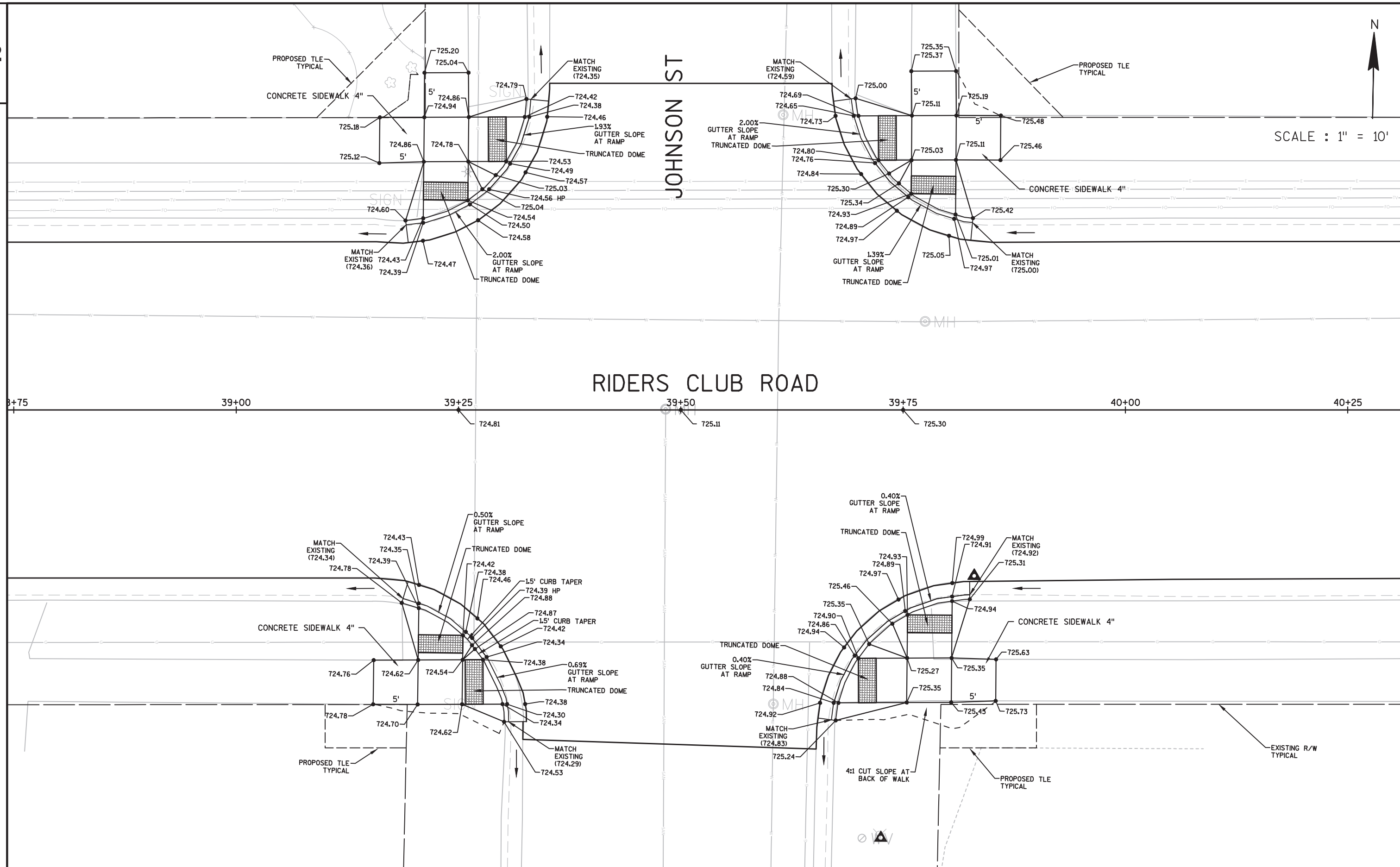
# 2





2

2



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

RIDERS CLUB ROAD &amp; JOHNSON STREET INTERSECTION DETAILS

SHEET

11

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0\AL\133149\C3D\SHEETSPLAN\021101-ID-RIDERS.DWG  
LAYOUT NAME - 021101-ID-RIDERS - 9

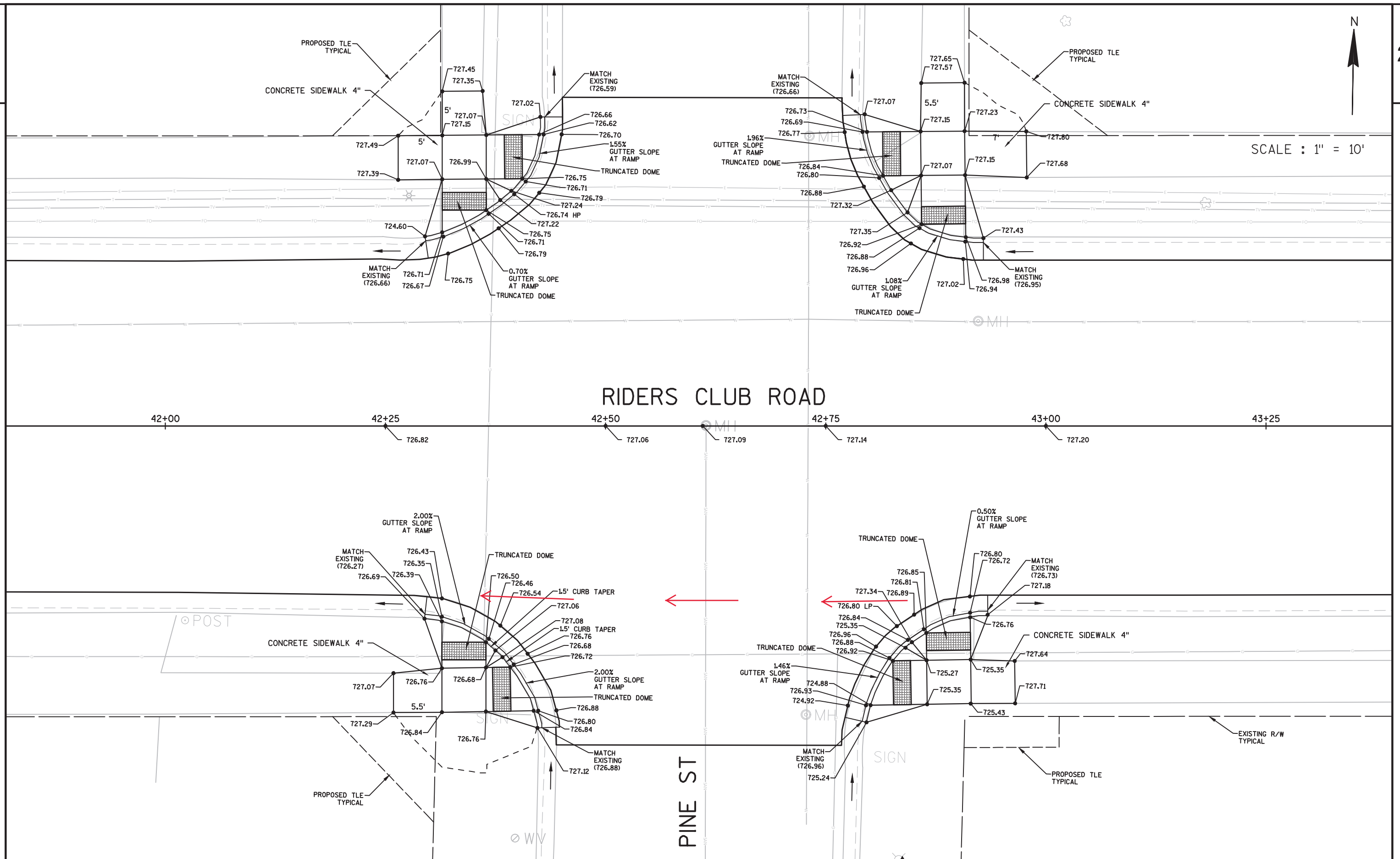
PLOT DATE : 1/6/2017 9:27 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

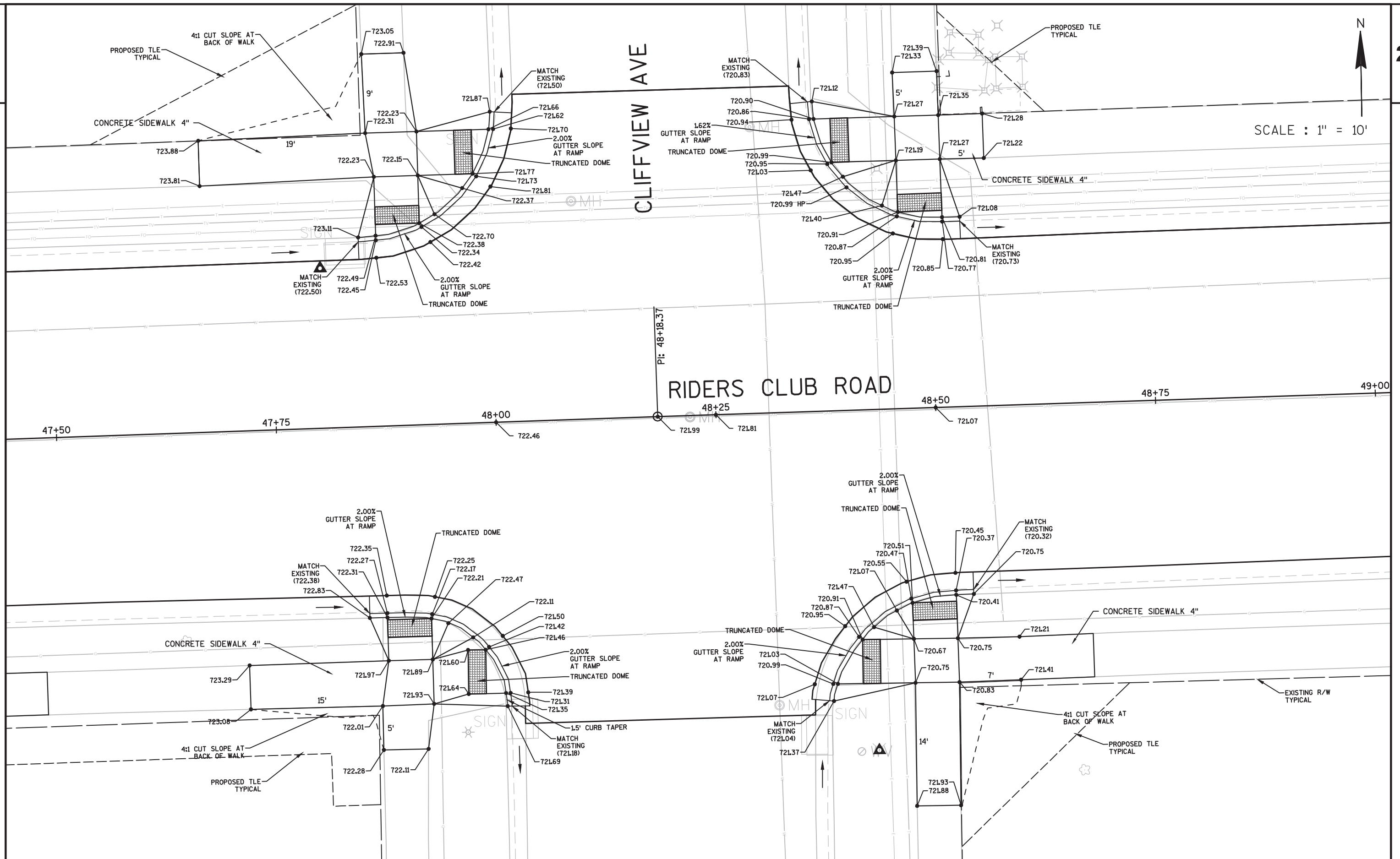
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



2

2



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

RIDERS CLUB ROAD &amp; CLIFFVIEW AVE. N. INTERSECTION DETAILS

SHEET

13

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\NALA\133149\C3D\SHEETPLAN\021101-ID-RIDERS.DWG  
LAYOUT NAME - 021101-ID-RIDERS - 11

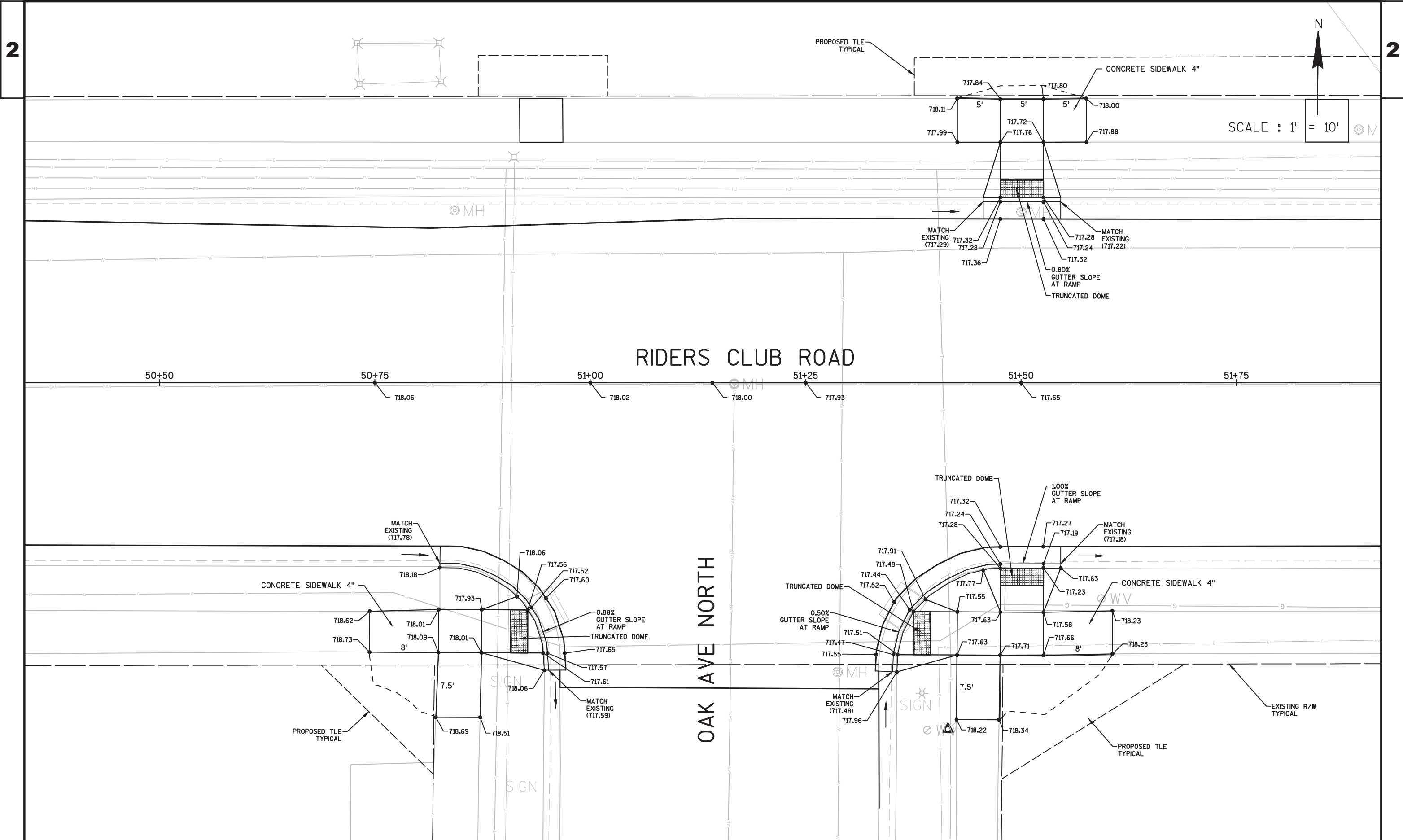
PLOT DATE : 1/6/2017 9:28 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

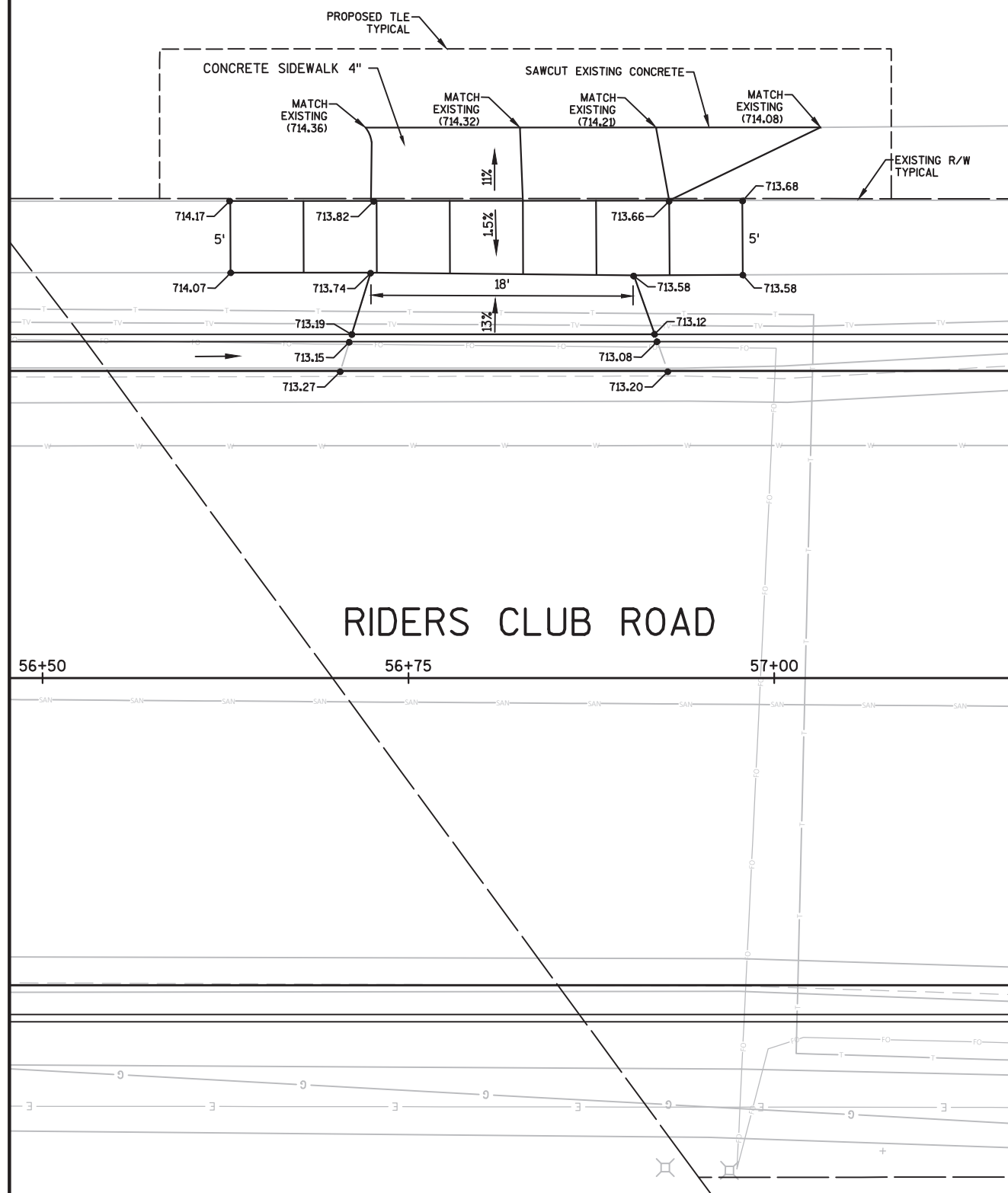
PLOT SCALE : 1 IN:10 FT

WISDOT/CADS SHEET 42

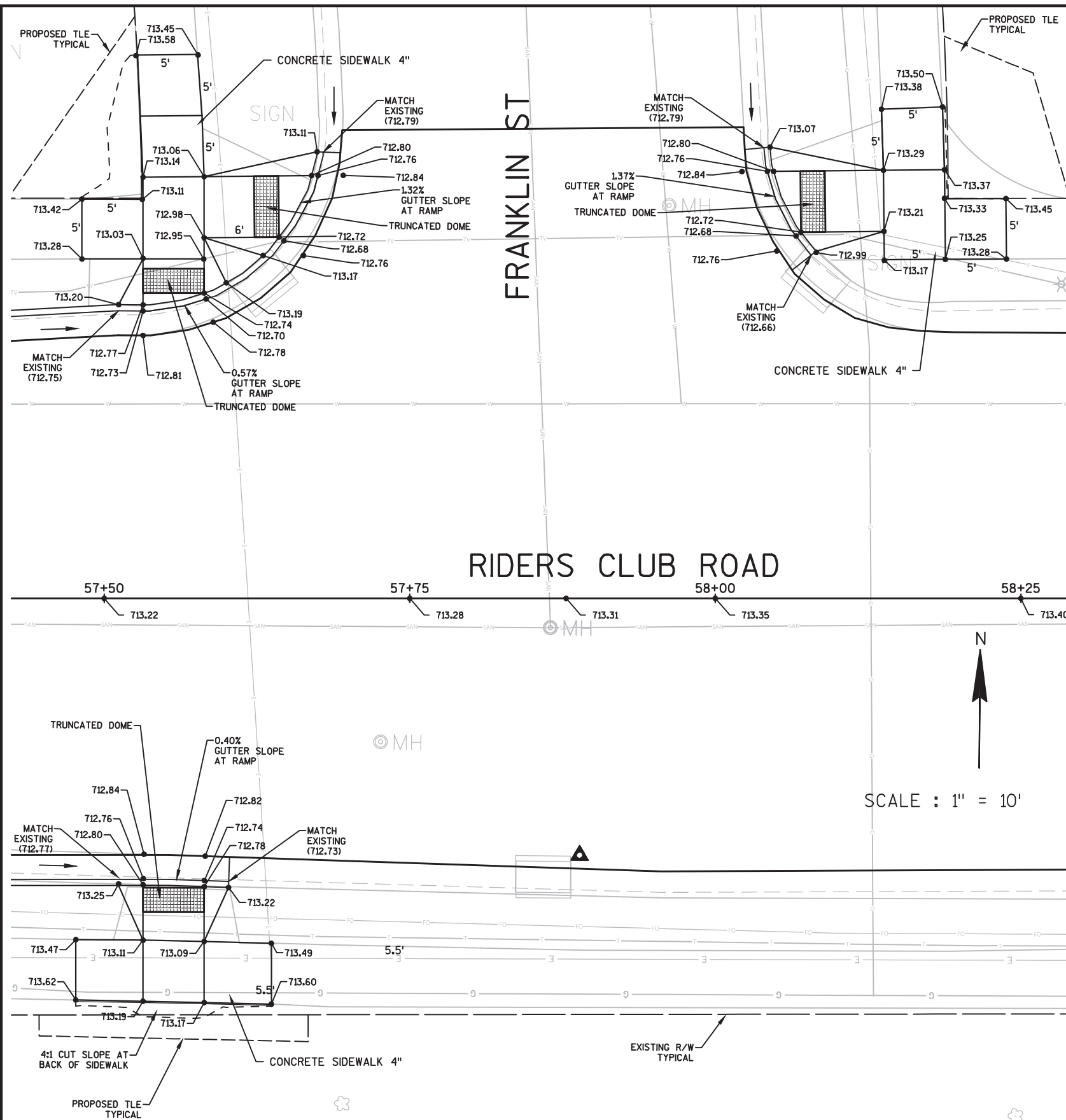


2

TERRY J WEILAND



2



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

RIDERS CLUB ROAD &amp; FRANKLIN STREET INTERSECTION DETAILS

SHEET

15

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\NALA\133149\C3D\SHEETSPLAN\021101-ID-RIDERS.DWG  
LAYOUT NAME - 021101-ID-RIDERS - 13

PLOT DATE : 1/6/2017 9:28 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDs SHEET 42

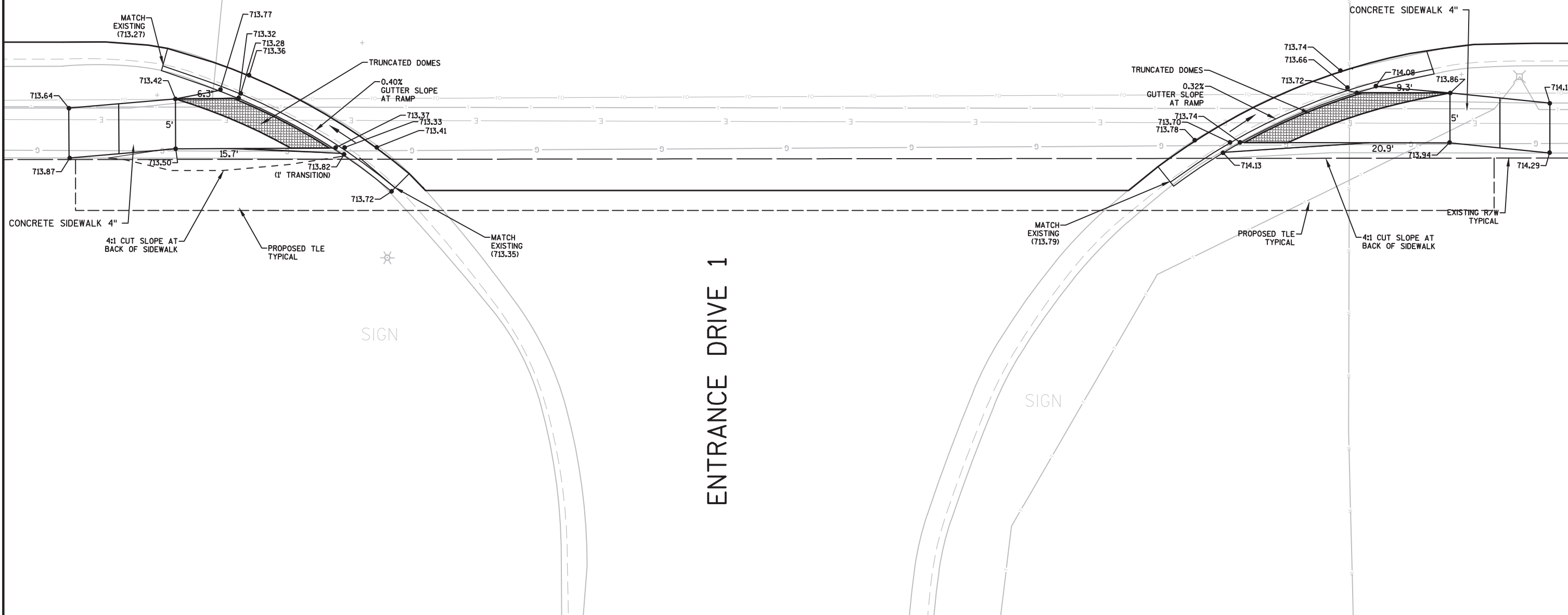
## RIDERS CLUB ROAD

SCALE : 1" = 10'



RADIAL DETECTABLE WARNING FIELD (DWF) DATA  
BACK OF CURB RADIUS = 60'  
LANDING LENGTH XR = 15.7'  
RADIAL DWF AREA = 23.2 SF  
RADIAL LONG CHORD = 10.8'

RADIAL DETECTABLE WARNING FIELD (DWF) DATA  
BACK OF CURB RADIUS = 60'  
LANDING LENGTH XR = 20.9'  
RADIAL DWF AREA = 29.4 SF  
RADIAL LONG CHORD = 12.8'



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

RIDERS CLUB ROAD &amp; ENTRANCE DRIVE 1 INTERSECTION DETAILS

SHEET

16

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0NALA\133149\C3D\SHEETSP\021101-ID-RIDERS.DWG  
LAYOUT NAME - 021101-ID-RIDERS - 14

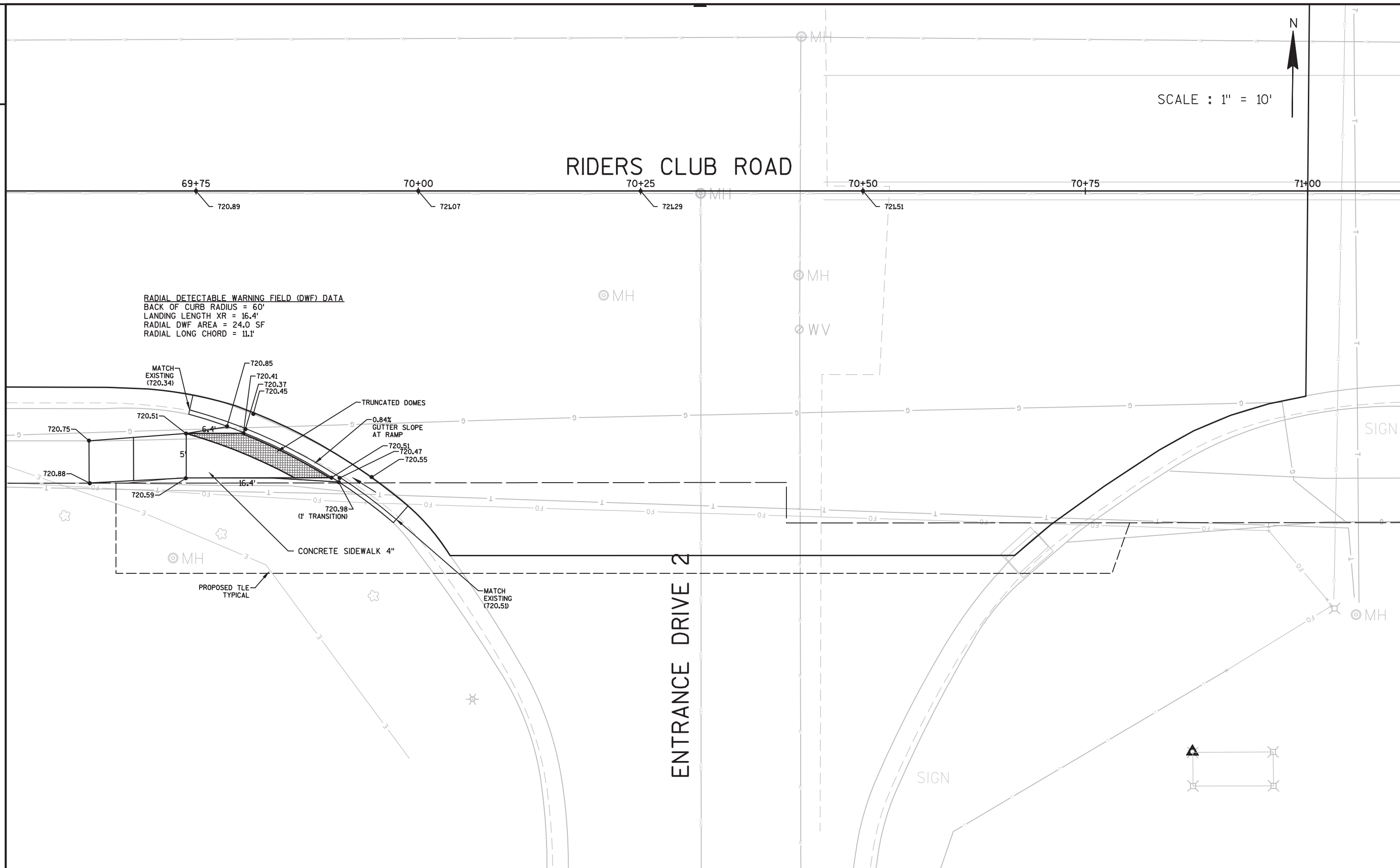
PLOT DATE : 7/17/2017 8:03 PM

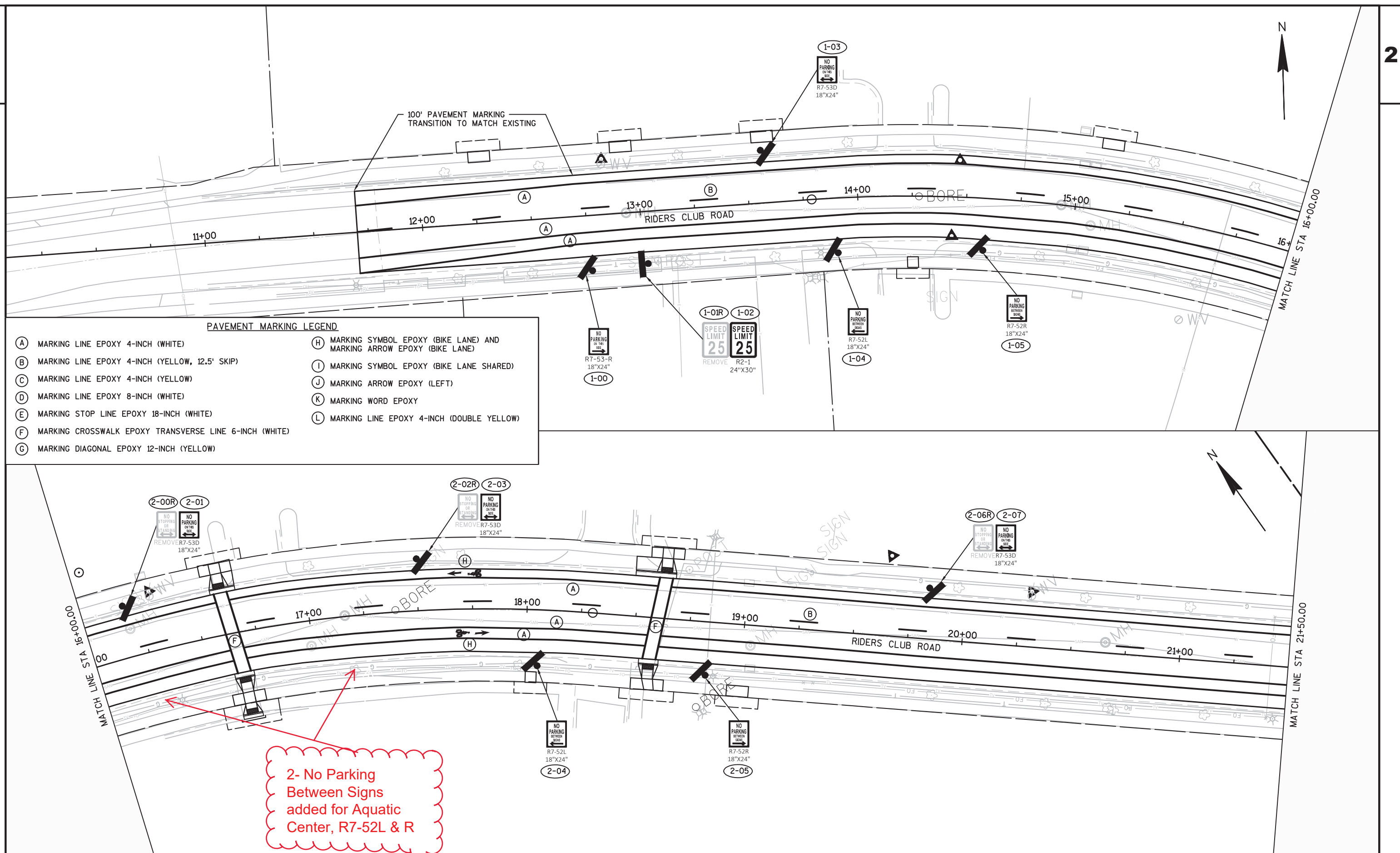
PLOT BY : TOREY LEONARD

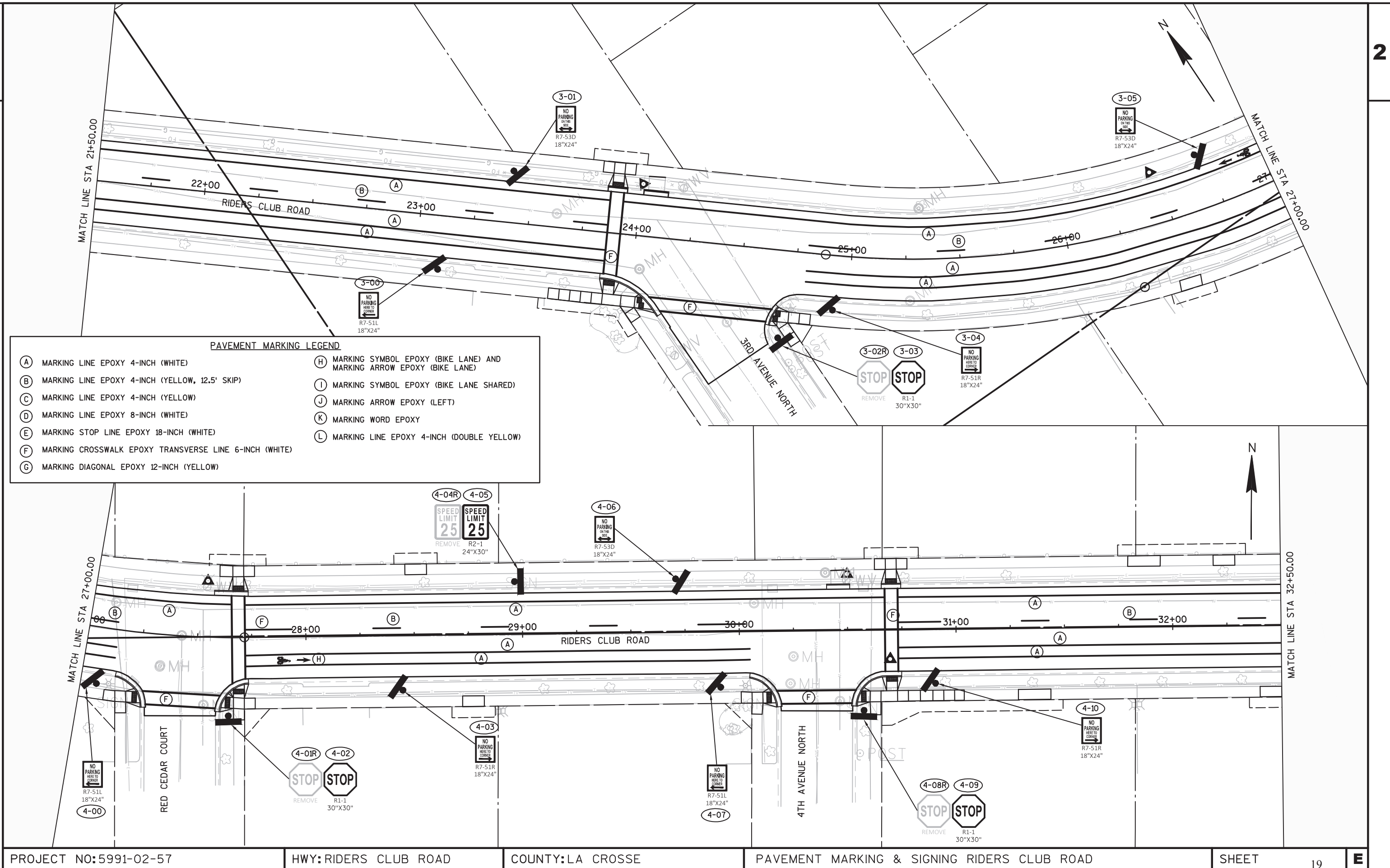
PLOT NAME :

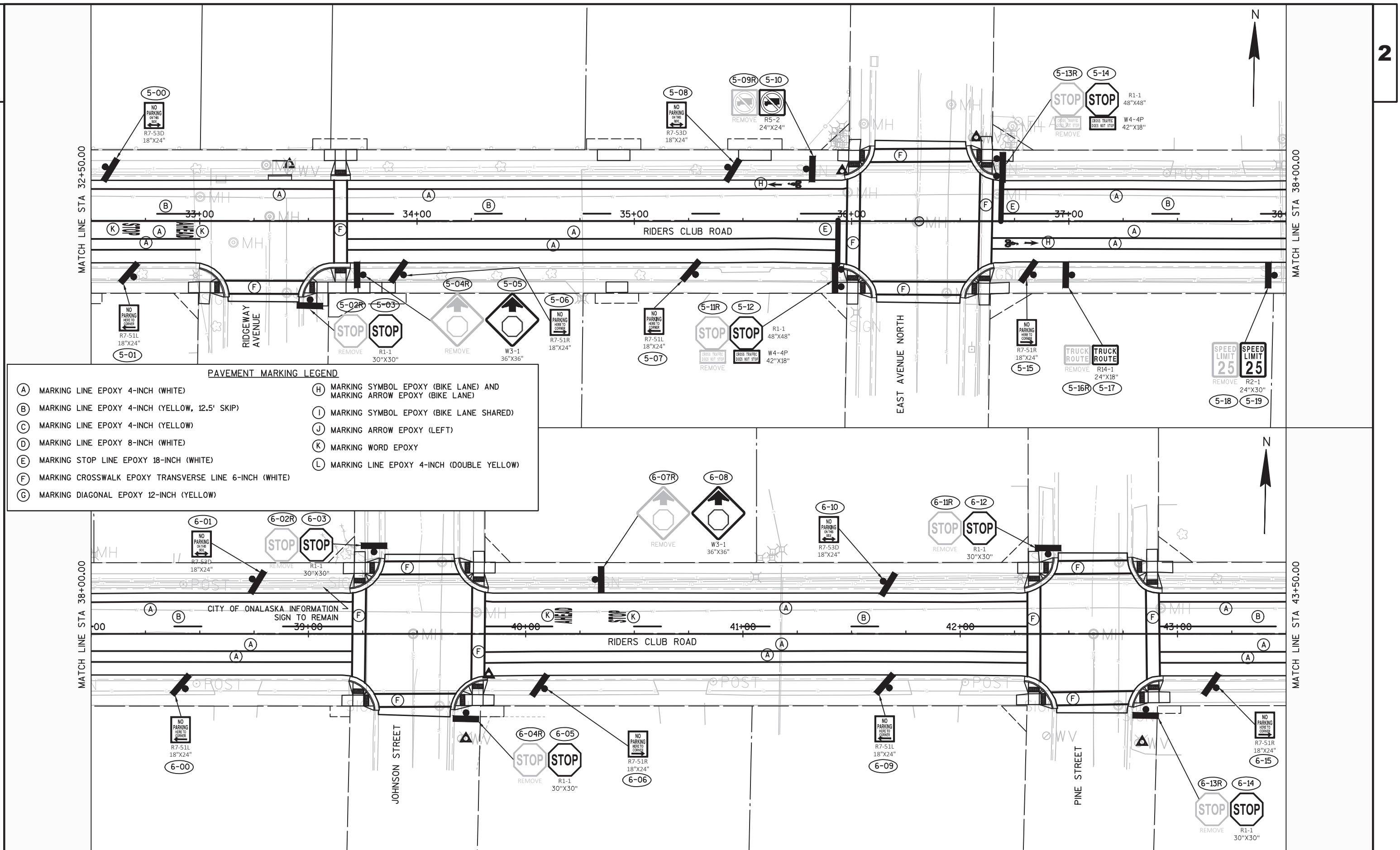
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDs SHEET 42









MATCH LINE STA 43+50.00

MATCH LINE STA 49+00.00

- PAVEMENT MARKING LEGEND**
- |                                                            |                                                                          |
|------------------------------------------------------------|--------------------------------------------------------------------------|
| (A) MARKING LINE EPOXY 4-INCH (WHITE)                      | (H) MARKING SYMBOL EPOXY (BIKE LANE) AND MARKING ARROW EPOXY (BIKE LANE) |
| (B) MARKING LINE EPOXY 4-INCH (YELLOW, 12.5' SKIP)         | (I) MARKING SYMBOL EPOXY (BIKE LANE SHARED)                              |
| (C) MARKING LINE EPOXY 4-INCH (YELLOW)                     | (J) MARKING ARROW EPOXY (LEFT)                                           |
| (D) MARKING LINE EPOXY 8-INCH (WHITE)                      | (K) MARKING WORD EPOXY                                                   |
| (E) MARKING STOP LINE EPOXY 18-INCH (WHITE)                | (L) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)                            |
| (F) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) |                                                                          |
| (G) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)                |                                                                          |

MATCH LINE STA 49+00.00

MATCH LINE STA 54+50.00

PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

PAVEMENT MARKING &amp; SIGNING RIDERS CLUB ROAD

SHEET 21

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\NALA\133149\C3D\SHEETPLAN\024501-PM-RIDERS.DWG  
LAYOUT NAME - 024504-PM

PLOT DATE : 6/12/2017 10:41 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDs SHEET 42

- PAVEMENT MARKING LEGEND
- |                                                            |                                                                          |
|------------------------------------------------------------|--------------------------------------------------------------------------|
| (A) MARKING LINE EPOXY 4-INCH (WHITE)                      | (H) MARKING SYMBOL EPOXY (BIKE LANE) AND MARKING ARROW EPOXY (BIKE LANE) |
| (B) MARKING LINE EPOXY 4-INCH (YELLOW, 12.5' SKIP)         | (I) MARKING SYMBOL EPOXY (BIKE LANE SHARED)                              |
| (C) MARKING LINE EPOXY 4-INCH (YELLOW)                     | (J) MARKING ARROW EPOXY (LEFT)                                           |
| (D) MARKING LINE EPOXY 8-INCH (WHITE)                      | (K) MARKING WORD EPOXY                                                   |
| (E) MARKING STOP LINE EPOXY 18-INCH (WHITE)                | (L) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)                            |
| (F) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) |                                                                          |
| (G) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)                |                                                                          |

# 2



## NOTES:

CONTRACTOR TO PROVIDE ALL REQUIRED TRAFFIC CONTROL PER STANDARD DETAIL DRAWINGS (SDD).

CONTRACTOR MAY ONLY CLOSE SIDEWALK ON ONE SIDE OF ANY STREET AT A TIME, THE OTHER SIDE MUST REMAIN OPEN.

WORK REQUIRING SIDEWALK CLOSURES WILL BE PERFORMED IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS.

A MINIMUM OF ONE NORTH-SOUTH CROSSWALK MUST BE MAINTAINED EVERY 1,500 FEET AND ONE EAST-WEST CROSSWALK MUST BE MAINTAINED AT EACH INTERSECTION THROUGHOUT CONSTRUCTION. ADDITIONALLY, THE CONTRACTOR MUST MAINTAIN ONE DIRECTION OF TRAVEL BETWEEN EACH CROSSWALK. ANY TEMPORARY ACCOMMODATIONS WILL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS.

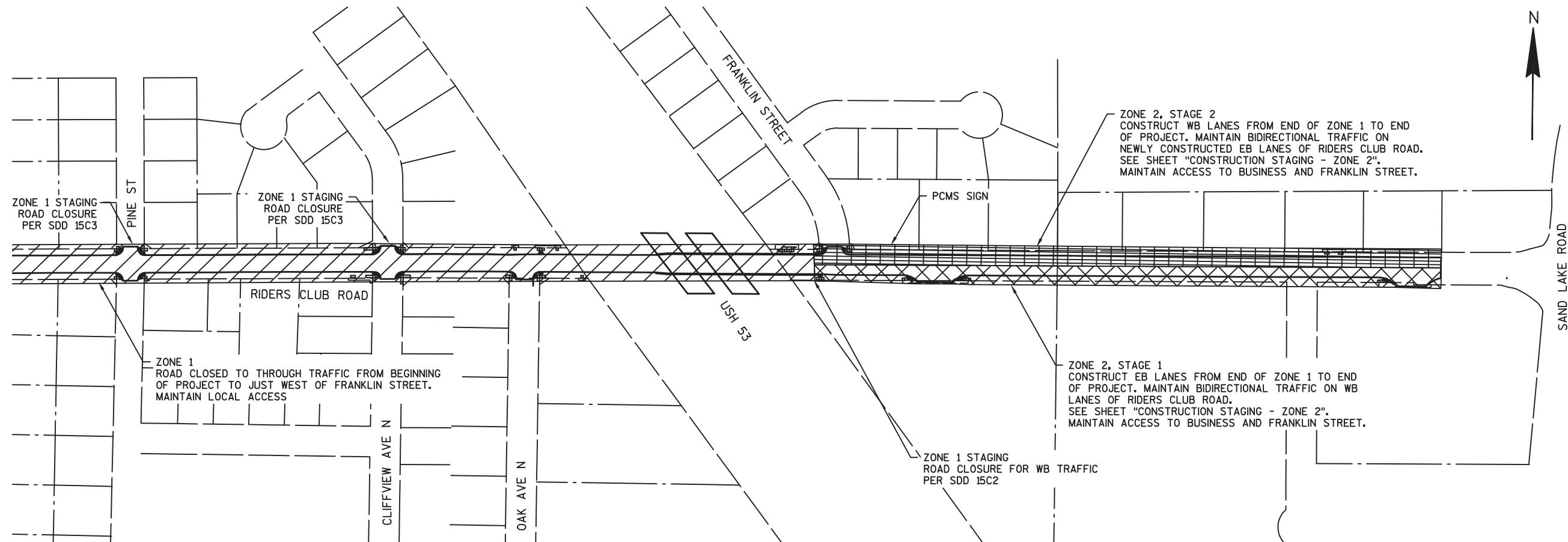
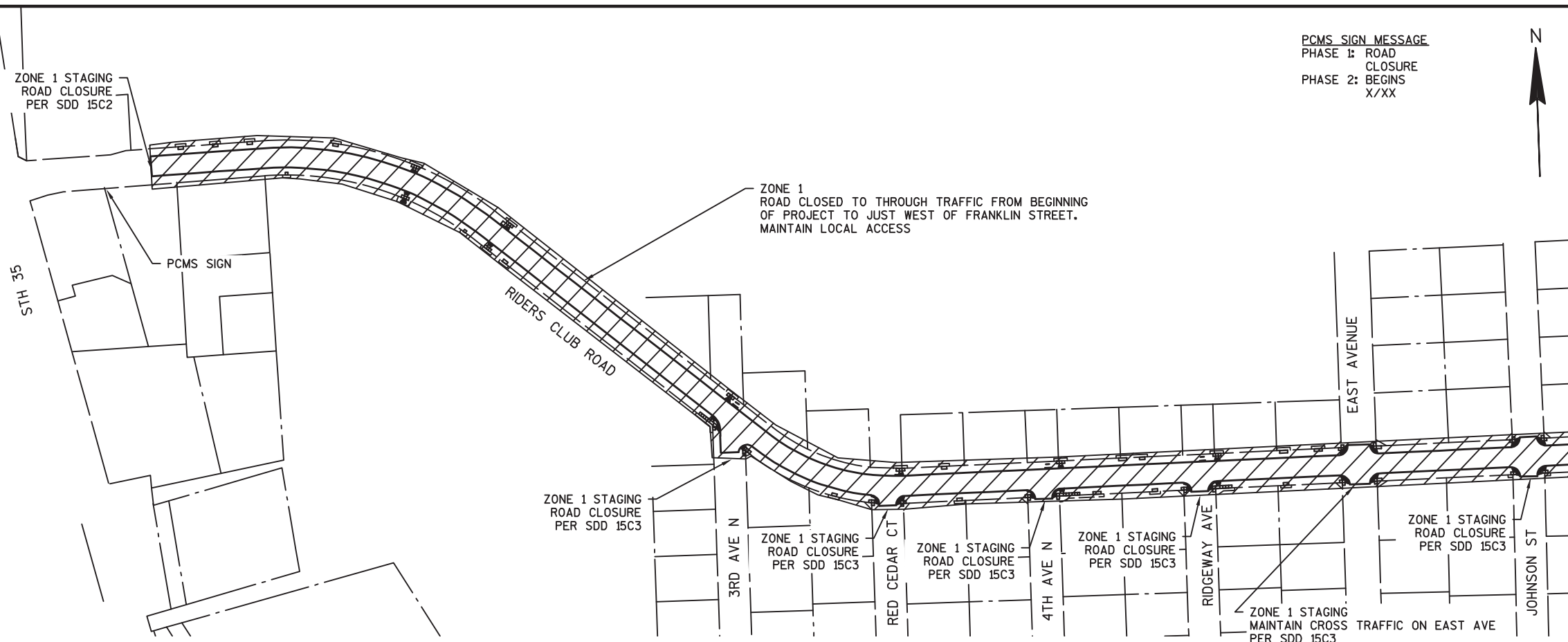
CONTRACTOR MAY UTILIZE FLAGGING OPERATIONS PER SDD 15C12 TO FACILITATE CONSTRUCTION ACTIVITIES, BUT THE FLAGGING OPERATIONS SHALL NOT DISRUPT TRAFFIC OPERATIONS ON STH 35 OR SAND LAKE ROAD.

PCMS SIGNS TO BE IN PLACE AT EACH END OF ZONE 1 FOR 3 DAYS PRIOR TO START OF CONSTRUCTION.

## PCMS SIGN MESSAGE

PHASE 1: ROAD CLOSURE

PHASE 2: BEGINS X/XX



## LEGEND

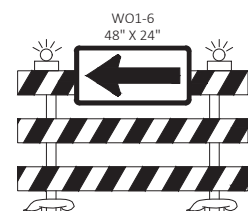
-  TYPE III BARRICADE  
 TYPE III BARRICADE WITH ATTACHED SIGN  
 SIGN ON TEMPORARY SUPPORT  
 TRAFFIC CONTROL CONE 42-INCH  
 WORK AREA  
 DIRECTION OF TRAFFIC



RIDERS CLUB ROAD



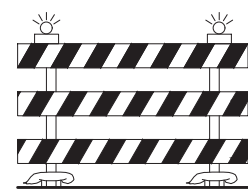
RIDERS CLUB ROAD



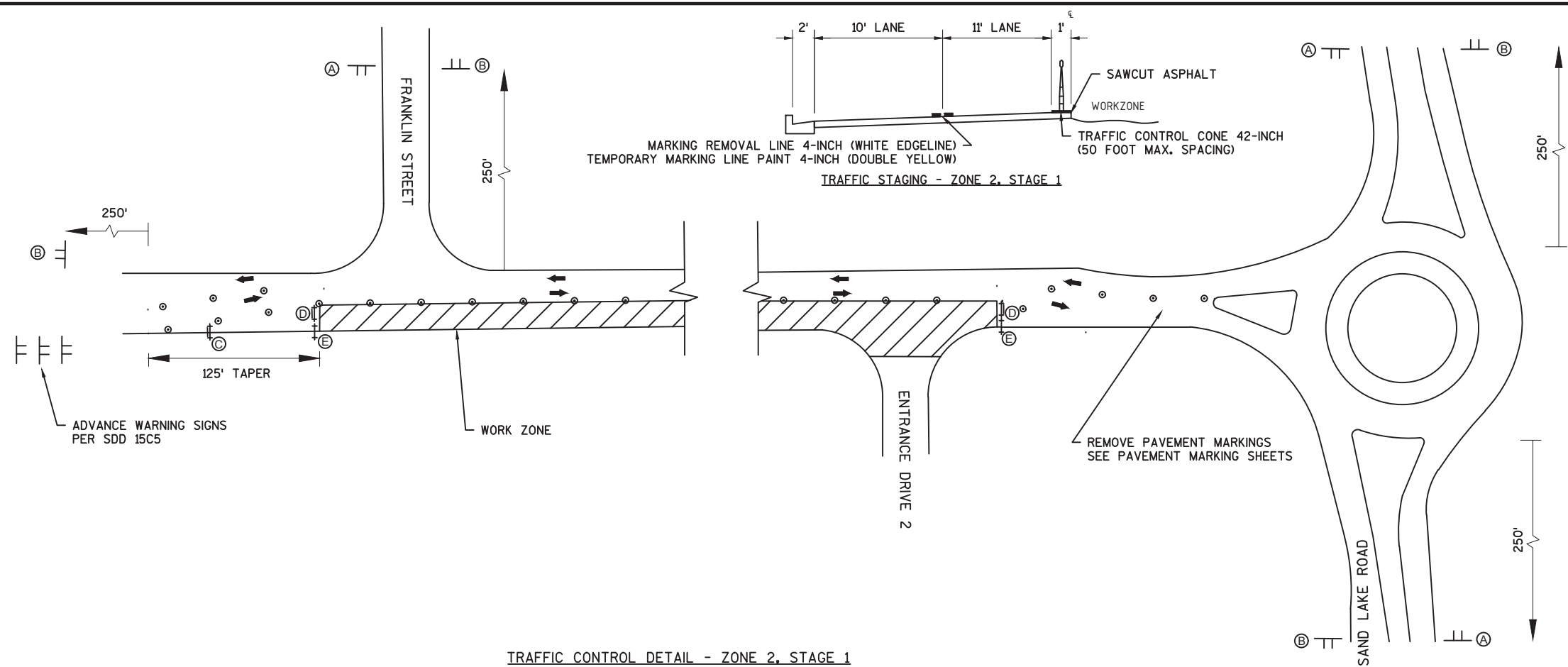
TYPE III BARRICADE



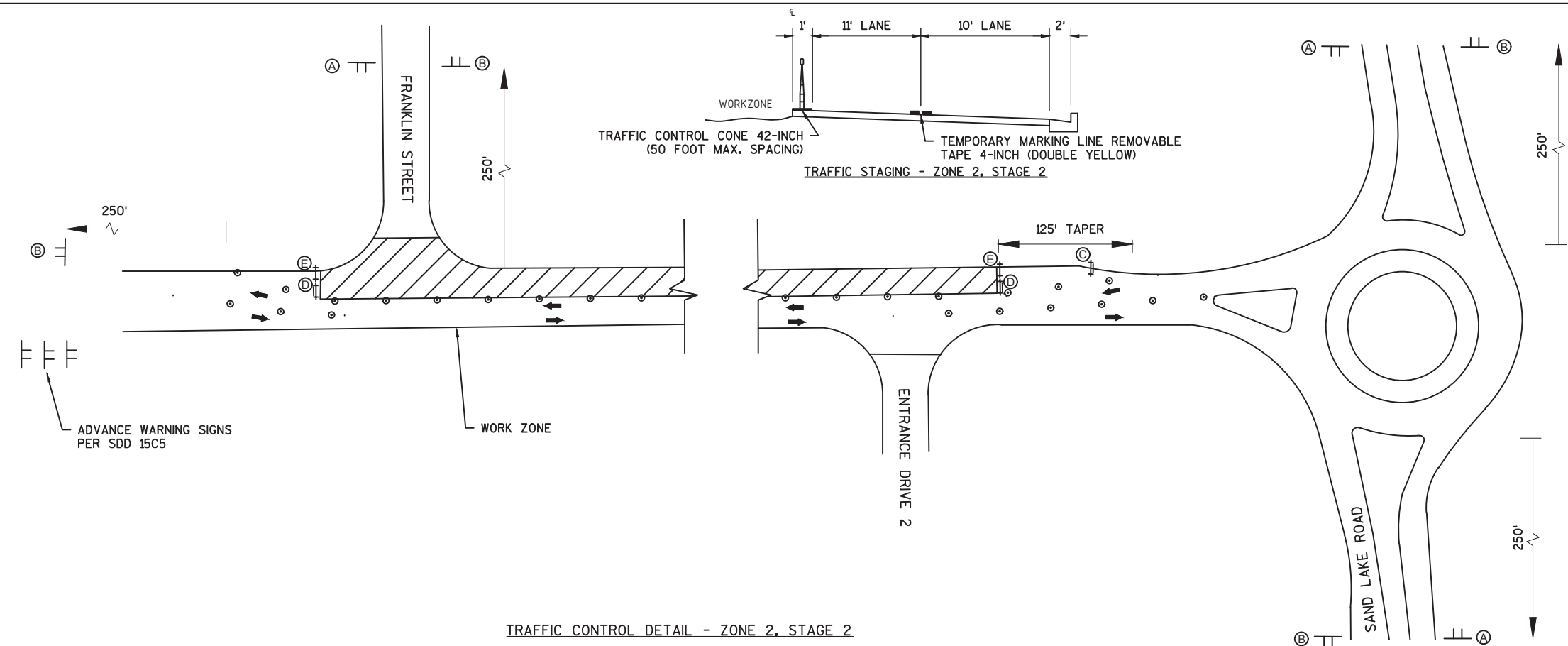
TYPE III BARRICADE



TYPE III BARRICADE



TRAFFIC CONTROL DETAIL - ZONE 2, STAGE 1



TRAFFIC CONTROL DETAIL - ZONE 2, STAGE 2

Estimate Of Quantities By Plan Sets

5991-02-57

| Line | Item     | Item Description                                         | Unit | Total                | Qty                  |            |
|------|----------|----------------------------------------------------------|------|----------------------|----------------------|------------|
| 0002 | 201.0120 | Clearing                                                 | ID   | 48.000               | 48.000               |            |
| 0004 | 201.0220 | Grubbing                                                 | ID   | 48.000               | 48.000               |            |
| 0006 | 204.0100 | Removing Pavement                                        | SY   | 43.000               | 43.000               |            |
| 0008 | 204.0150 | Removing Curb & Gutter                                   | LF   | 1,493.000            | 1,493.000            |            |
| 0010 | 204.0155 | Removing Concrete Sidewalk                               | SY   | 875.000              | 875.000              |            |
| 0012 | 204.0220 | Removing Inlets                                          | EACH | 2.000                | 2.000                |            |
| 0014 | 204.0245 | Removing Storm Sewer (size) 01. 12-Inch                  | LF   | 12.000               | 12.000               |            |
| 0016 | 205.0100 | Excavation Common                                        | CY   | 14,571.000           | 14,571.000           |            |
| 0022 | 213.0100 | Finishing Roadway (project) 01. 5991-02-57               | EACH | 1.000                | 1.000                |            |
| 0024 | 305.0120 | Base Aggregate Dense 1 1/4-Inch                          | TON  | 18,742.000           | 18,742.000           |            |
| 0026 | 312.0110 | Select Crushed Material                                  | TON  | 2,384.000            | 2,384.000            |            |
| 0028 | 416.0160 | Concrete Driveway 6-Inch                                 | SY   | 43.000               | 43.000               |            |
| 0030 | 455.0605 | Tack Coat                                                | GAL  | 1,908.000            | 1,908.000            |            |
| 0032 | 460.2000 | Incentive Density HMA Pavement                           | DOL  | 4,980.000            | 4,980.000            |            |
| 0034 | 460.5223 | HMA Pavement 3 LT 58-28 S                                | TON  | 4,651.00             | 3,876.000            |            |
| 0036 | 460.5224 | HMA Pavement 4 LT 58-28 S                                | TON  | <del>3,876.000</del> | <del>3,876.000</del> | 0.0T CCO 1 |
| 0038 | 601.0411 | Concrete Curb & Gutter 30-Inch Type D                    | LF   | 1,493.000            | 1,493.000            |            |
| 0040 | 602.0405 | Concrete Sidewalk 4-Inch                                 | SF   | 7,775.000            | 7,775.000            |            |
| 0042 | 602.0515 | Curb Ramp Detectable Warning Field Natural Patina        | SF   | 610.000              | 610.000              |            |
| 0044 | 602.0615 | Curb Ramp Detectable Warning Field Radial Natural Patina | SF   | 76.600               | 76.600               |            |
| 0046 | 608.0312 | Storm Sewer Pipe Reinforced Concrete Class III 12-Inch   | LF   | 16.000               | 16.000               |            |
| 0050 | 611.3230 | Inlets 2x3-FT                                            | EACH | 2.000                | 2.000                |            |
| 0052 | 611.8110 | Adjusting Manhole Covers                                 | EACH | 59.000               | 59.000               |            |
| 0054 | 611.8115 | Adjusting Inlet Covers                                   | EACH | 28.000               | 28.000               |            |
| 0056 | 611.9710 | Salvaged Inlet Covers                                    | EACH | 2.000                | 2.000                |            |
| 0058 | 619.1000 | Mobilization                                             | EACH | 0.600                | 0.600                |            |
| 0060 | 624.0100 | Water                                                    | MGAL | 562.300              | 562.300              |            |
| 0062 | 625.0100 | Topsoil                                                  | SY   | 323.000              | 323.000              |            |
| 0064 | 627.0200 | Mulching                                                 | SY   | 323.000              | 323.000              |            |
| 0066 | 628.1905 | Mobilizations Erosion Control                            | EACH | 2.000                | 2.000                |            |
| 0068 | 628.1910 | Mobilizations Emergency Erosion Control                  | EACH | 2.000                | 2.000                |            |
| 0070 | 628.7015 | Inlet Protection Type C                                  | EACH | 28.000               | 28.000               |            |
| 0072 | 629.0210 | Fertilizer Type B                                        | CWT  | 0.810                | 0.810                |            |
| 0074 | 630.0140 | Seeding Mixture No. 40                                   | LB   | 5.810                | 5.810                |            |
| 0076 | 634.0614 | Posts Wood 4x6-Inch X 14-FT                              | EACH | 76.000               | 76.000               |            |
| 0078 | 634.0616 | Posts Wood 4x6-Inch X 16-FT                              | EACH | 5.000                | 5.000                |            |
| 0080 | 637.2210 | Signs Type II Reflective H                               | SF   | 361.050              | 361.050              |            |
| 0084 | 638.2602 | Removing Signs Type II                                   | EACH | 39.000               | 39.000               |            |
| 190  | 460.6224 | HMA Pavement 4 MT 58-28S                                 | TON  | 3,101.00             | 3,101.00             | CCO 1&3    |
| 260  | 611.0639 | INLET COVERS TYPE H-S                                    | EACH | 1.0                  | 1.0                  | CCO 3      |
| 275  | 643.0300 | TRAFFIC CONTROL DRUMS                                    | DAYS | 2237                 | 2237                 | CCO 3      |

Estimate Of Quantities By Plan Sets

5991-02-57

| Line | Item       | Item Description                                                   | Unit   | Total      | Qty        |       |
|------|------------|--------------------------------------------------------------------|--------|------------|------------|-------|
| 0086 | 638.3000   | Removing Small Sign Supports                                       | EACH   | 41.000     | 41.000     |       |
| 0088 | 642.5001   | Field Office Type B                                                | EACH   | 0.500      | 0.500      |       |
| 0092 | 643.0410   | Traffic Control Barricades Type II                                 | DAY    | 467.000    | 467.000    |       |
| 0094 | 643.0420   | Traffic Control Barricades Type III                                | DAY    | 6,074.000  | 6,074.000  |       |
| 0096 | 643.0705   | Traffic Control Warning Lights Type A                              | DAY    | 13,088.000 | 13,088.000 |       |
| 0098 | 643.0900   | Traffic Control Signs                                              | DAY    | 4,578.000  | 4,578.000  |       |
| 0100 | 643.1050   | Traffic Control Signs PCMS                                         | DAY    | 6.000      | 6.000      |       |
| 0102 | 643.1070   | Traffic Control Cones 42-Inch                                      | DAY    | 1,088.000  | 1,088.000  |       |
| 0104 | 643.5000   | Traffic Control                                                    | EACH   | 0.600      | 0.600      |       |
| 0106 | 644.1420.S | Temporary Pedestrian Surface Plywood                               | SF     | 660.000    | 660.000    |       |
| 0108 | 644.1601.S | Temporary Curb Ramp                                                | EACH   | 18.000     | 18.000     |       |
| 0110 | 646.1020   | Marking Line Epoxy 4-Inch                                          | LF     | 18,418.000 | 18,418.000 |       |
| 0112 | 646.3020   | Marking Line Epoxy 8-Inch                                          | LF     | 100.000    | 100.000    |       |
| 0114 | 646.5020   | Marking Arrow Epoxy                                                | EACH   | 25.000     | 25.000     |       |
| 0116 | 646.5120   | Marking Word Epoxy                                                 | EACH   | 4.000      | 4.000      |       |
| 0118 | 646.5220   | Marking Symbol Epoxy                                               | EACH   | 15.000     | 15.000     |       |
| 0120 | 646.6120   | Marking Stop Line Epoxy 18-Inch                                    | LF     | 40.000     | 40.000     |       |
| 0122 | 646.7120   | Marking Diagonal Epoxy 12-Inch                                     | LF     | 29.000     | 29.000     |       |
| 0124 | 646.7420   | Marking Crosswalk Epoxy Transverse Line 6-Inch                     | LF     | 2,670.000  | 2,670.000  |       |
| 0126 | 646.9000   | Marking Removal Line 4-Inch                                        | LF     | 1,494.000  | 1,494.000  |       |
| 0130 | 649.0105   | Temporary Marking Line Paint 4-Inch                                | LF     | 2,558.000  | 2,558.000  |       |
| 0132 | 649.0150   | Temporary Marking Line Removable Tape 4-Inch                       | LF     | 2,558.000  | 2,558.000  |       |
| 0136 | 650.4500   | Construction Staking Subgrade                                      | LF     | 6,109.000  | 6,109.000  |       |
| 0138 | 650.5000   | Construction Staking Base                                          | LF     | 6,109.000  | 6,109.000  |       |
| 0140 | 650.5500   | Construction Staking Curb Gutter and Curb & Gutter                 | LF     | 1,480.000  | 1,480.000  |       |
| 0142 | 650.9000   | Construction Staking Curb Ramps                                    | EACH   | 48.000     | 48.000     |       |
| 0148 | 650.9910   | Construction Staking Supplemental Control (project) 01. 5991-02-57 | LS     | 1.000      | 1.000      |       |
| 0154 | 690.0150   | Sawing Asphalt                                                     | LF     | 2,127.000  | 2,127.000  |       |
| 0156 | 690.0250   | Sawing Concrete                                                    | LF     | 645.000    | 645.000    |       |
| 0158 | ASP.1T0A   | On-the-Job Training Apprentice at \$5.00/HR                        | HRS    | 1,200.000  | 1,200.000  |       |
| 0160 | ASP.1T0G   | On-the-Job Training Graduate at \$5.00/HR                          | HRS    | 600.000    | 600.000    |       |
| 0162 | SPV.0060   | Special 01. Existing Valve Box Adjustment                          | EACH   | 2.000      | 2.000      |       |
| 210  | 804.2005   | DISINCENTIVE DENSITY HMA PAVT.                                     | DOLLAR | -6396.85   | -6396.85   | CCO 3 |
| 270  | SPV.0090   | CONC. CURB & GUTTER 30-INCH, TYPE D                                | LF     | 341        | 341        | CCO3  |
| 200  | SPV.0195   | SPECIAL.01 EXTRA COST FOR ASPHALT MIX UPGRADE TON                  |        | 3101       | 3101       | CCO 1 |

| CLEARING AND GRUBBING            |     |                  |                            |                            |
|----------------------------------|-----|------------------|----------------------------|----------------------------|
| STATION                          | DIR | LOCATION         | 201.0105<br>CLEARING<br>ID | 201.0205<br>GRUBBING<br>ID |
| PROJECT 5991-02-57 CATEGORY 0010 |     |                  |                            |                            |
| 27+75                            | LT  | RIDERS CLUB ROAD | 9                          | 9                          |
| 68+55                            | LT  | RIDERS CLUB ROAD | 14                         | 14                         |
| 68+70                            | LT  | RIDERS CLUB ROAD | 12                         | 12                         |
| 68+85                            | LT  | RIDERS CLUB ROAD | 13                         | 13                         |
| PROJECT TOTALS                   |     |                  | 48                         | 48                         |

| REMOVING PAVEMENT                |    |         |     |                  |                                        |
|----------------------------------|----|---------|-----|------------------|----------------------------------------|
| STATION                          | TO | STATION | DIR | LOCATION         | 204.0100<br>REMOVING<br>PAVEMENT<br>SY |
| PROJECT 5991-02-57 CATEGORY 0010 |    |         |     |                  |                                        |
| 56+60                            | -  | 57+00   | LT  | RIDERS CLUB ROAD | 43                                     |
| PROJECT TOTALS                   |    |         |     |                  | 43                                     |

| REMOVING CURB AND GUTTER         |     |                  |                                             |
|----------------------------------|-----|------------------|---------------------------------------------|
| STATION                          | DIR | LOCATION         | 204.0150<br>REMOVING CURB<br>& GUTTER<br>LF |
| PROJECT 5991-02-57 CATEGORY 0010 |     |                  |                                             |
| 23+80                            | RT  | 3RD AVE NORTH    | 34                                          |
| 23+90                            | LT  | RIDERS CLUB ROAD | 9                                           |
| 24+10                            | LT  | RIDERS CLUB ROAD | 12                                          |
| 24+60                            | RT  | 3RD AVE NORTH    | 10                                          |
| 27+20                            | RT  | RED CEDAR COURT  | 21                                          |
| 27+60                            | RT  | RED CEDAR COURT  | 21                                          |
| 27+70                            | LT  | RIDERS CLUB ROAD | 12                                          |
| 30+10                            | RT  | 4TH AVENUE NORTH | 21                                          |
| 30+45                            | LT  | RIDERS CLUB ROAD | 11                                          |
| 30+55                            | RT  | 4TH AVENUE NORTH | 29                                          |
| 30+70                            | LT  | RIDERS CLUB ROAD | 9                                           |
| 33+10                            | RT  | RIDGEWAY AVE     | 20                                          |
| 33+35                            | LT  | RIDERS CLUB ROAD | 11                                          |
| 33+50                            | RT  | RIDGEWAY AVE     | 30                                          |
| 33+65                            | LT  | RIDERS CLUB ROAD | 9                                           |
| 36+00                            | RT  | EAST AVE NORTH   | 21                                          |
| 36+00                            | LT  | EAST AVE NORTH   | 20                                          |
| 36+55                            | RT  | EAST AVE NORTH   | 21                                          |
| 36+55                            | LT  | EAST AVE NORTH   | 20                                          |
| 39+25                            | RT  | JOHNSON ST       | 20                                          |
| 39+25                            | LT  | JOHNSON ST       | 22                                          |
| 39+75                            | RT  | JOHNSON ST       | 23                                          |
| 39+75                            | LT  | JOHNSON ST       | 21                                          |
| 42+35                            | RT  | PINE ST          | 20                                          |
| 42+25                            | LT  | PINE ST          | 22                                          |
| 42+80                            | RT  | PINE ST          | 21                                          |
| 42+80                            | LT  | PINE ST          | 23                                          |
| 48+00                            | RT  | CLIFFVIEW AVE    | 23                                          |
| 48+00                            | LT  | CLIFFVIEW AVE    | 24                                          |
| 48+40                            | RT  | CLIFFVIEW AVE    | 23                                          |
| 48+40                            | LT  | CLIFFVIEW AVE    | 25                                          |
| 50+90                            | RT  | OAK AVE NORTH    | 20                                          |
| 51+30                            | RT  | OAK AVE NORTH    | 27                                          |
| 51+50                            | LT  | RIDERS CLUB ROAD | 9                                           |
| 54+00 TO 57+60                   | RT  | RIDERS CLUB ROAD | 361                                         |
| 54+00 TO 57+60                   | LT  | RIDERS CLUB ROAD | 351                                         |
| 57+65                            | LT  | FRANKLIN ST      | 24                                          |
| 58+05                            | LT  | FRANKLIN ST      | 10                                          |
| 59+50                            | RT  | ENTRANCE DRIVE 1 | 27                                          |
| 60+50                            | RT  | ENTRANCE DRIVE 1 | 29                                          |
| 69+0                             | RT  | ENTRANCE DRIVE 2 | 27                                          |
| PROJECT TOTAL                    |     |                  | 1493                                        |

| EXCAVATION COMMON                |    |         |               |                                        |
|----------------------------------|----|---------|---------------|----------------------------------------|
| STATION                          | TO | STATION | LOCATION      | 205.0100<br>EXCAVATION<br>COMMON<br>CY |
| PROJECT 5991-00-54 CATEGORY 0010 |    |         |               |                                        |
| 11+70                            | -  | 57+60   | RIDERS CLUB   | 10040                                  |
| 57+60                            | -  | 71+00   | RIDERS CLUB   | 3206                                   |
|                                  |    | EBS     | UNDISTRIBUTED | 1325                                   |
| PROJECT TOTALS                   |    |         |               | 14571                                  |

| REMOVING CONCRETE SIDEWALK       |    |         |     |                  |                                                    |
|----------------------------------|----|---------|-----|------------------|----------------------------------------------------|
| STATION                          | TO | STATION | DIR | LOCATION         | 204.0155<br>REMOVING<br>CONCRETE<br>SIDEWALK<br>SY |
| PROJECT 5991-02-57 CATEGORY 0010 |    |         |     |                  |                                                    |
| 12+23                            | -  | 12+33   | LT  | RIDERS CLUB ROAD | 6                                                  |
| 12+88                            | -  | 12+98   | LT  | RIDERS CLUB ROAD | 6                                                  |
| 13+53                            | -  | 13+63   | LT  | RIDERS CLUB ROAD | 6                                                  |
| 14+22                            | -  | 14+27   | RT  | RIDERS CLUB ROAD | 3                                                  |
| 15+09                            | -  | 15+19   | LT  | RIDERS CLUB ROAD | 6                                                  |
| 16+50                            | -  | 16+75   | LT  | RIDERS CLUB ROAD | 14                                                 |
| 16+50                            | -  | 16+75   | RT  | RIDERS CLUB ROAD | 18                                                 |
| 18+00                            | -  | 18+05   | RT  | RIDERS CLUB ROAD | 3                                                  |
| 18+50                            | -  | 18+70   | LT  | RIDERS CLUB ROAD | 21                                                 |
| 18+50                            | -  | 18+65   | RT  | RIDERS CLUB ROAD | 14                                                 |
| 18+94                            | -  | 19+04   | RT  | RIDERS CLUB ROAD | 6                                                  |
| 23+60                            | -  | 24+10   | RT  | RIDERS CLUB ROAD | 36                                                 |
| 23+80                            | -  | 24+00   | LT  | RIDERS CLUB ROAD | 14                                                 |
| 24+60                            | -  | 24+80   | RT  | RIDERS CLUB ROAD | 18                                                 |
| 26+48                            | -  | 26+58   | RT  | RIDERS CLUB ROAD | 6                                                  |
| 27+10                            | -  | 27+25   | RT  | RIDERS CLUB ROAD | 14                                                 |
| 27+60                            | -  | 27+80   | LT  | RIDERS CLUB ROAD | 15                                                 |
| 27+60                            | -  | 27+80   | RT  | RIDERS CLUB ROAD | 17                                                 |
| 28+46                            | -  | 28+56   | LT  | RIDERS CLUB ROAD | 6                                                  |
| 28+72                            | -  | 28+82   | RT  | RIDERS CLUB ROAD | 6                                                  |
| 30+00                            | -  | 30+20   | RT  | RIDERS CLUB ROAD | 13                                                 |
| 30+55                            | -  | 31+05   | RT  | RIDERS CLUB ROAD | 36                                                 |
| 30+60                            | -  | 30+70   | LT  | RIDERS CLUB ROAD | 14                                                 |
| 31+29                            | -  | 31+44   | RT  | RIDERS CLUB ROAD | 9                                                  |
| 31+79                            | -  | 31+94   | LT  | RIDERS CLUB ROAD | 9                                                  |
| 32+19                            | -  | 32+29   | LT  | RIDERS CLUB ROAD | 6                                                  |
| 32+40                            | -  | 32+50   | RT  | RIDERS CLUB ROAD | 6                                                  |
| 32+95                            | -  | 33+10   | RT  | RIDERS CLUB ROAD | 13                                                 |
| 33+50                            | -  | 33+90   | RT  | RIDERS CLUB ROAD | 32                                                 |
| 33+55                            | -  | 33+75   | LT  | RIDERS CLUB ROAD | 14                                                 |
| 34+83                            | -  | 34+98   | LT  | RIDERS CLUB ROAD | 9                                                  |
| 34+87                            | -  | 34+97   | RT  | RIDERS CLUB ROAD | 6                                                  |
| 35+48                            | -  | 35+63   | LT  | RIDERS CLUB ROAD | 9                                                  |
| 35+95                            | -  | 36+10   | RT  | RIDERS CLUB ROAD | 16                                                 |
| 35+95                            | -  | 36+10   | LT  | RIDERS CLUB ROAD | 15                                                 |
| 36+50                            | -  | 36+75   | RT  | RIDERS CLUB ROAD | 18                                                 |
| 36+50                            | -  | 36+75   | LT  | RIDERS CLUB ROAD | 18                                                 |
| 39+15                            | -  | 39+30   | RT  | RIDERS CLUB ROAD | 12                                                 |
| 39+15                            | -  | 39+30   | LT  | RIDERS CLUB ROAD | 17                                                 |
| 39+70                            | -  | 39+85   | RT  | RIDERS CLUB ROAD | 15                                                 |
| 39+70                            | -  | 39+85   | LT  | RIDERS CLUB ROAD | 16                                                 |
| 42+25                            | -  | 42+45   | RT  | RIDERS CLUB ROAD | 12                                                 |
| 42+25                            | -  | 42+45   | LT  | RIDERS CLUB ROAD | 16                                                 |
| 42+80                            | -  | 42+95   | RT  | RIDERS CLUB ROAD | 13                                                 |
| 42+80                            | -  | 42+95   | LT  | RIDERS CLUB ROAD | 19                                                 |
| 47+38                            | -  | 47+84   | RT  | RIDERS CLUB ROAD | 6                                                  |
| 47+65                            | -  | 48+00   | LT  | RIDERS CLUB ROAD | 30                                                 |
| 47+70                            | -  | 48+00   | RT  | RIDERS CLUB ROAD | 25                                                 |
| 48+35                            | -  | 48+55   | LT  | RIDERS CLUB ROAD | 20                                                 |
| 48+35                            | -  | 48+70   | RT  | RIDERS CLUB ROAD | 29                                                 |
| 50+75                            | -  | 50+95   | RT  | RIDERS CLUB ROAD | 17                                                 |
| 50+92                            | -  | 50+97   | LT  | RIDERS CLUB ROAD | 3                                                  |
| 51+35                            | -  | 51+50   | RT  | RIDERS CLUB ROAD | 23                                                 |
| 51+45                            | -  | 51+60   | LT  | RIDERS CLUB ROAD | 14                                                 |
| 51+83                            | -  | 51+88   | LT  | RIDERS CLUB ROAD | 3                                                  |
| 52+37                            | -  | 52+42   | RT  | RIDERS CLUB ROAD | 3                                                  |
| 57+50                            | -  | 57+70   | LT  | RIDERS CLUB ROAD | 21                                                 |
| 57+50                            | -  | 57+65   | RT  | RIDERS CLUB ROAD | 13                                                 |
| 58+05                            | -  | 58+25   | LT  | RIDERS CLUB ROAD | 16                                                 |
| 59+35                            | -  | 59+60   | RT  | RIDERS CLUB ROAD | 13                                                 |
| 60+45                            | -  | 60+80   | RT  | RIDERS CLUB ROAD | 15                                                 |
| 68+48                            | -  | 68+58   | LT  | RIDERS CLUB ROAD | 6                                                  |
| 68+78                            | -  | 68+88   | LT  | RIDERS CLUB ROAD | 6                                                  |
| 69+65                            | -  | 69+95   | RT  | RIDERS CLUB ROAD | 14                                                 |
| PROJECT TOTALS                   |    |         |     |                  | 875                                                |

| REMOVING STORM SEWER             |     |                  |                                        |                                                           |                                                 |
|----------------------------------|-----|------------------|----------------------------------------|-----------------------------------------------------------|-------------------------------------------------|
| STATION                          | DIR | LOCATION         | 204.0220<br>REMOVING<br>INLETS<br>EACH | 204.0245<br>REMOVING<br>STORM<br>SEWER<br>(12-INCH)<br>LF | 611.9710<br>SALVAGED<br>INLET<br>COVERS<br>EACH |
| PROJECT 5991-02-57 CATEGORY 0010 |     |                  |                                        |                                                           |                                                 |
| 55+65                            | RT  | RIDERS CLUB ROAD | 1                                      | 6                                                         | 1                                               |
| 55+65                            | LT  | RIDERS CLUB ROAD | 1                                      | 6                                                         | 1                                               |
| PROJECT TOTALS                   |     |                  | 2                                      | 12                                                        | 2                                               |

| BASE, SUBGRADE AGGREGATE, AND WATER |         |    |         |          |                                                       |                                                                                   |
|-------------------------------------|---------|----|---------|----------|-------------------------------------------------------|-----------------------------------------------------------------------------------|
| ZONE                                | STATION | TO | STATION | LOCATION | 305.0120 BASE<br>AGGREGATE<br>DENSE 1 1/4-INCH<br>TON | 312.0110 SELECT<br>CRUSHED<br>MATERIAL<br>TON*<br><br>624.0100<br>WATER<br>MGAL** |
| PROJECT 5991-02-57 CATEGORY 0010    |         |    |         |          |                                                       |                                                                                   |
| 1                                   | 11+70   | -  | 54+00   | RIDERS   | 12681                                                 | 380.4                                                                             |
| 1                                   | 54+00   | -  | 57+60   | RIDERS   | 1392                                                  | 41.8                                                                              |
| 2 (STAGE 1)                         | 57+60   | -  | 71+00   | RIDERS   | 2436                                                  | 73.1                                                                              |
| 2 (STAGE 2)                         | 57+60   | -  | 71+00   | RIDERS   | 2233                                                  | 67.0                                                                              |
| UNDISTRIBUTED                       |         |    |         | RIDERS   | 2384                                                  |                                                                                   |
| PROJECT TOTALS                      |         |    |         |          | 18742                                                 | 562.3                                                                             |

\*FOR USE AT EBS LOCATIONS, ESTIMATED AT 1.8 TON/CY  
\*\*INCLUDES WATER FOR DUST CONTROL

| ASPHALTIC ITEMS                  |         |    |         |          |                                                         |                              |                                                                                                              |
|----------------------------------|---------|----|---------|----------|---------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------|
| ZONE                             | STATION | TO | STATION | LOCATION | 460.2000<br>INCENTIVE<br>DENSITY HMA<br>PAVEMENT<br>DOL | 455.0605<br>TACK COAT<br>GAL | 460.5223<br>HMA<br>PAVEMENT<br>3 LT 58-28 S<br>TON<br><br>460.5224<br>HMA<br>PAVEMENT<br>4 LT 58-28 S<br>TON |
| PROJECT 5991-02-57 CATEGORY 0010 |         |    |         |          |                                                         |                              |                                                                                                              |
| 1                                | 11+70   | -  | 54+00   | RIDERS   | 3410                                                    | 1047                         | 2664                                                                                                         |
|                                  | 54+00   | -  | 57+60   | RIDERS   | 300                                                     | 91                           | 231                                                                                                          |
| 2 (STAGE 1)                      | 57+60   | -  | 71+00   | RIDERS   | 660                                                     | 385                          | 512                                                                                                          |
| 2 (STAGE 2)                      | 57+60   | -  | 71+00   | RIDERS   | 610                                                     | 385                          | 469                                                                                                          |
| PROJECT TOTALS                   |         |    |         |          | 4980                                                    | 1908                         | 3876                                                                                                         |

| CONCRETE DRIVEWAYS               |    |         |     |                  |                                               |
|----------------------------------|----|---------|-----|------------------|-----------------------------------------------|
| STATION                          | TO | STATION | DIR | LOCATION         | 416.0160<br>CONCRETE<br>DRIVEWAY 6-INCH<br>SY |
| PROJECT 5991-02-57 CATEGORY 0010 |    |         |     |                  |                                               |
| 56+60                            | -  | 57+00   | LT  | RIDERS CLUB ROAD | 43.0                                          |
| PROJECT TOTALS                   |    |         |     |                  | 43.0                                          |

| CONCRETE CURB AND GUTTER         |     |                  |                                                               |
|----------------------------------|-----|------------------|---------------------------------------------------------------|
| STATION                          | DIR | LOCATION         | 601.0411<br>CONCRETE CURB &<br>GUTTER 30-INCH<br>TYPE D<br>LF |
| PROJECT 5991-02-57 CATEGORY 0010 |     |                  |                                                               |
| 23+80                            | RT  | 3RD AVE NORTH    | 34                                                            |
| 23+90                            | LT  | RIDERS CLUB ROAD | 9                                                             |
| 24+10                            | LT  | RIDERS CLUB ROAD | 12                                                            |
| 24+60                            | RT  | 3RD AVE NORTH    | 10                                                            |
| 27+20                            | RT  | RED CEDAR COURT  | 21                                                            |
| 27+60                            | RT  | RED CEDAR COURT  | 21                                                            |
| 27+70                            | LT  | RIDERS CLUB ROAD | 12                                                            |
| 30+10                            | RT  | 4TH AVENUE NORTH | 21                                                            |
| 30+45                            | LT  | RIDERS CLUB ROAD | 11                                                            |
| 30+55                            | RT  | 4TH AVENUE NORTH | 29                                                            |
| 30+70                            | LT  | RIDERS CLUB ROAD | 9                                                             |
| 33+10                            | RT  | RIDGEWAY AVE     | 20                                                            |
| 33+35                            | LT  | RIDERS CLUB ROAD | 11                                                            |
| 33+50                            | RT  | RIDGEWAY AVE     | 30                                                            |
| 33+65                            | LT  | RIDERS CLUB ROAD | 9                                                             |
| 36+00                            | RT  | EAST AVE NORTH   | 21                                                            |
| 36+00                            | LT  | EAST AVE NORTH   | 20                                                            |
| 36+55                            | RT  | EAST AVE NORTH   | 21                                                            |
| 36+55                            | LT  | EAST AVE NORTH   | 20                                                            |
| 39+25                            | RT  | JOHNSON ST       | 20                                                            |
| 39+25                            | LT  | JOHNSON ST       | 22                                                            |
| 39+75                            | RT  | JOHNSON ST       | 23                                                            |
| 39+75                            | LT  | JOHNSON ST       | 21                                                            |
| 42+35                            | RT  | PINE ST          | 20                                                            |
| 42+25                            | LT  | PINE ST          | 22                                                            |
| 42+80                            | RT  | PINE ST          | 21                                                            |
| 42+80                            | LT  | PINE ST          | 23                                                            |
| 48+00                            | RT  | CLIFFVIEW AVE    | 23                                                            |
| 48+00                            | LT  | CLIFFVIEW AVE    | 24                                                            |
| 48+40                            | RT  | CLIFFVIEW AVE    | 23                                                            |
| 48+40                            | LT  | CLIFFVIEW AVE    | 25                                                            |
| 50+90                            | RT  | OAK AVE NORTH    | 20                                                            |
| 51+30                            | RT  | OAK AVE NORTH    | 27                                                            |
| 51+50                            | LT  | RIDERS CLUB ROAD | 9                                                             |
| 54+00 TO 57+60                   | RT  | RIDERS CLUB ROAD | 361                                                           |
| 54+00 TO 57+60                   | LT  | RIDERS CLUB ROAD | 351                                                           |
| 57+65                            | LT  | FRANKLIN ST      | 24                                                            |
| 58+05                            | LT  | FRANKLIN ST      | 10                                                            |
| 59+50                            | RT  | ENTRANCE DRIVE 1 | 27                                                            |
| 60+50                            | RT  | ENTRANCE DRIVE 1 | 29                                                            |
| 69+00                            | RT  | ENTRANCE DRIVE 2 | 27                                                            |
| PROJECT TOTAL                    |     |                  | 1493                                                          |

| CONCRETE SIDEWALK                |    |         |     |                  |                                               |
|----------------------------------|----|---------|-----|------------------|-----------------------------------------------|
| STATION                          | TO | STATION | DIR | LOCATION         | 602.0405<br>CONCRETE<br>SIDEWALK 4-INCH<br>SF |
| PROJECT 5991-02-57 CATEGORY 0010 |    |         |     |                  |                                               |
| 12+23                            | -  | 12+33   | LT  | RIDERS CLUB ROAD | 50                                            |
| 12+88                            | -  | 12+98   | LT  | RIDERS CLUB ROAD | 50                                            |
| 13+53                            | -  | 13+63   | LT  | RIDERS CLUB ROAD | 50                                            |
| 14+22                            | -  | 14+27   | RT  | RIDERS CLUB ROAD | 25                                            |
| 15+09                            | -  | 15+19   | LT  | RIDERS CLUB ROAD | 50                                            |
| 16+50                            | -  | 16+75   | LT  | RIDERS CLUB ROAD | 123                                           |
| 16+50                            | -  | 16+75   | RT  | RIDERS CLUB ROAD | 155                                           |
| 18+00                            | -  | 18+05   | RT  | RIDERS CLUB ROAD | 25                                            |
| 18+50                            | -  | 18+70   | LT  | RIDERS CLUB ROAD | 182                                           |
| 18+50                            | -  | 18+65   | RT  | RIDERS CLUB ROAD | 122                                           |
| 18+94                            | -  | 19+04   | RT  | RIDERS CLUB ROAD | 50                                            |
| 23+60                            | -  | 24+10   | RT  | RIDERS CLUB ROAD | 316                                           |
| 23+80                            | -  | 24+00   | LT  | RIDERS CLUB ROAD | 120                                           |
| 24+60                            | -  | 24+80   | RT  | RIDERS CLUB ROAD | 156                                           |
| 26+48                            | -  | 26+58   | RT  | RIDERS CLUB ROAD | 50                                            |
| 27+10                            | -  | 27+25   | RT  | RIDERS CLUB ROAD | 118                                           |
| 27+60                            | -  | 27+80   | LT  | RIDERS CLUB ROAD | 127                                           |
| 27+60                            | -  | 27+80   | RT  | RIDERS CLUB ROAD | 147                                           |
| 28+46                            | -  | 28+56   | LT  | RIDERS CLUB ROAD | 50                                            |
| 28+72                            | -  | 28+82   | RT  | RIDERS CLUB ROAD | 50                                            |
| 30+00                            | -  | 30+20   | RT  | RIDERS CLUB ROAD | 111                                           |
| 30+55                            | -  | 31+05   | RT  | RIDERS CLUB ROAD | 322                                           |
| 30+60                            | -  | 30+70   | LT  | RIDERS CLUB ROAD | 120                                           |
| 31+29                            | -  | 31+44   | RT  | RIDERS CLUB ROAD | 75                                            |
| 31+79                            | -  | 31+94   | LT  | RIDERS CLUB ROAD | 75                                            |
| 32+19                            | -  | 32+29   | LT  | RIDERS CLUB ROAD | 50                                            |
| 32+40                            | -  | 32+50   | RT  | RIDERS CLUB ROAD | 50                                            |
| 32+95                            | -  | 33+10   | RT  | RIDERS CLUB ROAD | 110                                           |
| 33+50                            | -  | 33+90   | RT  | RIDERS CLUB ROAD | 284                                           |
| 33+55                            | -  | 33+75   | LT  | RIDERS CLUB ROAD | 121                                           |
| 34+83                            | -  | 34+98   | LT  | RIDERS CLUB ROAD | 75                                            |
| 34+87                            | -  | 34+97   | RT  | RIDERS CLUB ROAD | 50                                            |
| 35+48                            | -  | 35+63   | LT  | RIDERS CLUB ROAD | 75                                            |
| 35+95                            | -  | 36+10   | RT  | RIDERS CLUB ROAD | 138                                           |
| 35+95                            | -  | 36+10   | LT  | RIDERS CLUB ROAD | 127                                           |
| 36+50                            | -  | 36+75   | RT  | RIDERS CLUB ROAD | 159                                           |
| 36+50                            | -  | 36+75   | LT  | RIDERS CLUB ROAD | 157                                           |
| 39+15                            | -  | 39+30   | RT  | RIDERS CLUB ROAD | 105                                           |
| 39+15                            | -  | 39+30   | LT  | RIDERS CLUB ROAD | 150                                           |
| 39+70                            | -  | 39+85   | RT  | RIDERS CLUB ROAD | 134                                           |
| 39+70                            | -  | 39+85   | LT  | RIDERS CLUB ROAD | 144                                           |
| 42+25                            | -  | 42+45   | RT  | RIDERS CLUB ROAD | 108                                           |
| 42+25                            | -  | 42+45   | LT  | RIDERS CLUB ROAD | 143                                           |
| 42+80                            | -  | 42+95   | RT  | RIDERS CLUB ROAD | 114                                           |
| 42+80                            | -  | 42+95   | LT  | RIDERS CLUB ROAD | 169                                           |
| 47+38                            | -  | 47+84   | RT  | RIDERS CLUB ROAD | 50                                            |
| 47+65                            | -  | 48+00   | LT  | RIDERS CLUB ROAD | 267                                           |
| 47+70                            | -  | 48+00   | RT  | RIDERS CLUB ROAD | 217                                           |
| 48+35                            | -  | 48+55   | LT  | RIDERS CLUB ROAD | 177                                           |
| 48+35                            | -  | 48+70   | RT  | RIDERS CLUB ROAD | 254                                           |
| 50+75                            | -  | 50+95   | RT  | RIDERS CLUB ROAD | 145                                           |
| 50+92                            | -  | 50+97   | LT  | RIDERS CLUB ROAD | 25                                            |
| 51+35                            | -  | 51+50   | RT  | RIDERS CLUB ROAD | 203                                           |
| 51+45                            | -  | 51+60   | LT  | RIDERS CLUB ROAD | 121                                           |
| 51+83                            | -  | 51+88   | LT  | RIDERS CLUB ROAD | 25                                            |
| 52+37                            | -  | 52+42   | RT  | RIDERS CLUB ROAD | 25                                            |
| 56+60                            | -  | 57+00   | LT  | RIDERS CLUB ROAD | 175                                           |
| 57+50                            | -  | 57+70   | LT  | RIDERS CLUB ROAD | 185                                           |
| 57+50                            | -  | 57+65   | RT  | RIDERS CLUB ROAD | 117                                           |
| 58+05                            | -  | 58+25   | LT  | RIDERS CLUB ROAD | 142                                           |
| 59+35                            | -  | 59+60   | RT  | RIDERS CLUB ROAD | 117                                           |
| 60+45                            | -  | 60+80   | RT  | RIDERS CLUB ROAD | 129                                           |
| 68+48                            | -  | 68+58   | LT  | RIDERS CLUB ROAD | 50                                            |
| 68+78                            | -  | 68+88   | LT  | RIDERS CLUB ROAD | 50                                            |
| 69+65                            | -  | 69+95   | RT  | RIDERS CLUB ROAD | 119                                           |
| PROJECT TOTALS                   |    |         |     |                  | 7775                                          |

| CURB RAMP DETECTABLE WARNING FIELD |     |                  |                                                                              |                                                                                        |
|------------------------------------|-----|------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| STATION                            | DIR | LOCATION         | 602.0515<br>CURB RAMP<br>DETECTABLE<br>WARNING FIELD<br>NATURAL PATINA<br>SF | 602.0615<br>CURB RAMP<br>DETECTABLE<br>WARNING FIELD<br>RADIAL<br>NATURAL PATINA<br>SF |
| PROJECT 5991-02-57 CATEGORY 0010   |     |                  |                                                                              |                                                                                        |
| 16+70                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 16+70                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 18+55                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 18+65                              | LT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 23+90                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 23+90                              | LT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 24+00                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 24+65                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 27+20                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 27+65                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 27+65                              | LT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 30+15                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 30+55                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 30+70                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 30+70                              | LT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 33+10                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 33+50                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 33+65                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 33+65                              | LT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 36+00                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 36+00                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 36+60                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 36+60                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 39+25                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 39+25                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 39+75                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 39+75                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 42+35                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 42+35                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 42+85                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 42+85                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 47+90                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 47+90                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 48+45                              | RT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 48+45                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 50+85                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 54+45                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 51+50                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 51+50                              | LT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 57+55                              | RT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 57+55                              | LT  | RIDERS CLUB ROAD | 20                                                                           |                                                                                        |
| 58+10                              | LT  | RIDERS CLUB ROAD | 10                                                                           |                                                                                        |
| 59+50                              | RT  | RIDERS CLUB ROAD |                                                                              | 23.2                                                                                   |
| 60+60                              | RT  | RIDERS CLUB ROAD |                                                                              | 29.4                                                                                   |
| 69+80                              | RT  | RIDERS CLUB ROAD |                                                                              | 24.0                                                                                   |
| PROJECT TOTALS                     |     |                  | 610                                                                          | 76.6                                                                                   |

| ADJUSTING UTILITIES              |    |          |                  |                                                    |                                               |                                                         |
|----------------------------------|----|----------|------------------|----------------------------------------------------|-----------------------------------------------|---------------------------------------------------------|
|                                  |    |          |                  | 611.8110<br>ADJUSTING<br>MANHOLE<br>COVERS<br>EACH | 611.8105<br>ADJUSTING INLET<br>COVERS<br>EACH | SPV.0900.02<br>EXISTING VALVE<br>BOX ADJUSTMENT<br>EACH |
| STATION                          | TO | STATION  | LOCATION         |                                                    |                                               |                                                         |
| PROJECT 5991-02-57 CATEGORY 0010 |    |          |                  |                                                    |                                               |                                                         |
| 11+70                            |    | 24+25    | RIDERS CLUB ROAD | 3                                                  | 6                                             |                                                         |
| 24+25                            |    | 27+40    | RIDERS CLUB ROAD | 1                                                  | 1                                             |                                                         |
| 27+40                            |    | 30+35    | RIDERS CLUB ROAD | 2                                                  | 2                                             |                                                         |
| 30+35                            |    | 33+30    | RIDERS CLUB ROAD | 1                                                  | 2                                             |                                                         |
| 33+30                            |    | 36+30    | RIDERS CLUB ROAD | 0                                                  | --                                            |                                                         |
| 36+30                            |    | 39+50    | RIDERS CLUB ROAD | 0                                                  | --                                            |                                                         |
| 39+50                            |    | 42+60    | RIDERS CLUB ROAD | 0                                                  | --                                            |                                                         |
| 42+60                            |    | 48+20    | RIDERS CLUB ROAD | 1                                                  | --                                            |                                                         |
| 48+20                            |    | 51+15    | RIDERS CLUB ROAD | 0                                                  | --                                            |                                                         |
| 51+15                            |    | 57+85    | RIDERS CLUB ROAD | 2                                                  | 8                                             |                                                         |
| 57+85                            |    | 60+00    | RIDERS CLUB ROAD | 0                                                  | 1                                             |                                                         |
| 60+00                            |    | 72+78.53 | RIDERS CLUB ROAD | 6                                                  | 8                                             |                                                         |
| PROJECT 5991-02-57 CATEGORY 0020 |    |          |                  |                                                    |                                               |                                                         |
| 11+70                            |    | 24+25    | RIDERS CLUB ROAD | 7                                                  |                                               |                                                         |
| 24+25                            |    | 27+40    | RIDERS CLUB ROAD | 2                                                  |                                               |                                                         |
| 27+40                            |    | 30+35    | RIDERS CLUB ROAD | 2                                                  |                                               |                                                         |
| 30+35                            |    | 33+30    | RIDERS CLUB ROAD | 2                                                  |                                               |                                                         |
| 33+30                            |    | 36+30    | RIDERS CLUB ROAD | 3                                                  |                                               |                                                         |
| 36+30                            |    | 39+50    | RIDERS CLUB ROAD | 4                                                  |                                               |                                                         |
| 39+50                            |    | 42+60    | RIDERS CLUB ROAD | 4                                                  |                                               |                                                         |
| 42+60                            |    | 48+20    | RIDERS CLUB ROAD | 3                                                  |                                               |                                                         |
| 48+20                            |    | 51+15    | RIDERS CLUB ROAD | 4                                                  |                                               |                                                         |
| 51+15                            |    | 57+85    | RIDERS CLUB ROAD | 3                                                  |                                               |                                                         |
| 57+85                            |    | 60+00    | RIDERS CLUB ROAD | 1                                                  |                                               |                                                         |
| 60+00                            |    | 72+78.53 | RIDERS CLUB ROAD | 8                                                  |                                               | 2                                                       |
| PROJECT TOTALS                   |    |          |                  | 59                                                 | 28                                            | 2                                                       |

| STORM SEWER                      |     |                          |                  |                                                 |                                      |
|----------------------------------|-----|--------------------------|------------------|-------------------------------------------------|--------------------------------------|
| STATION                          | DIR | OFFSET<br>TO<br>FLOWLINE | LOCATION         | 608.0312<br>SSPRC<br>CLASS III<br>12-INCH<br>LF | 611.3230<br>INLETS<br>2X3-FT<br>EACH |
| PROJECT 5991-02-57 CATEGORY 0010 |     |                          |                  |                                                 |                                      |
| 55+61.1                          | RT  | 23.0'                    | RIDERS CLUB ROAD | 8                                               | 1                                    |
| 55+64.5                          | LT  | 23.0'                    | RIDERS CLUB ROAD | 8                                               | 1                                    |
| PROJECT TOTALS                   |     |                          |                  | 16                                              | 2                                    |

SEE REMOVING STORM SEWER TABLE FOR SALVAGED INLET COVERS

| LANDSCAPING ITEMS                |    |         |     |                  |                           |                            |                                                     |                                                                  |                                         |                                                |
|----------------------------------|----|---------|-----|------------------|---------------------------|----------------------------|-----------------------------------------------------|------------------------------------------------------------------|-----------------------------------------|------------------------------------------------|
| STATION                          | TO | STATION | DIR | LOCATION         | 625.0100<br>TOPSOIL<br>SY | 627.0200<br>MULCHING<br>SY | 628.1905<br>MOBILIZATION<br>EROSION CONTROL<br>EACH | 628.1910<br>MOBILIZATION<br>EMERGENCY<br>EROSION CONTROL<br>EACH | 629.0210<br>FERTILIZE<br>R TYP B<br>CWT | 630.0140<br>SEEDING<br>MIXTURE<br>NO. 40<br>LB |
| PROJECT 5991-00-54 CATEGORY 0010 |    |         |     |                  |                           |                            |                                                     |                                                                  |                                         |                                                |
| 12+23                            | -  | 12+33   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 12+88                            | -  | 12+98   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 13+53                            | -  | 13+63   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 14+22                            | -  | 14+27   | RT  | RIDERS CLUB ROAD | 1                         | 1                          |                                                     |                                                                  | 0.01                                    | 0.02                                           |
| 15+09                            | -  | 15+19   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 16+50                            | -  | 16+75   | LT  | RIDERS CLUB ROAD | 6                         | 6                          |                                                     |                                                                  | 0.01                                    | 0.1                                            |
| 16+50                            | -  | 16+75   | RT  | RIDERS CLUB ROAD | 6                         | 6                          |                                                     |                                                                  | 0.01                                    | 0.1                                            |
| 18+00                            | -  | 18+05   | RT  | RIDERS CLUB ROAD | 1                         | 1                          |                                                     |                                                                  | 0.01                                    | 0.02                                           |
| 18+50                            | -  | 18+70   | LT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 18+50                            | -  | 18+65   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 18+94                            | -  | 19+04   | RT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 23+60                            | -  | 24+10   | RT  | RIDERS CLUB ROAD | 11                        | 11                         |                                                     |                                                                  | 0.01                                    | 0.2                                            |
| 23+80                            | -  | 24+00   | LT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 24+60                            | -  | 24+80   | RT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 26+48                            | -  | 26+58   | RT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 27+10                            | -  | 27+25   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 27+60                            | -  | 27+80   | LT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 27+60                            | -  | 27+80   | RT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 28+46                            | -  | 28+56   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 28+72                            | -  | 28+82   | RT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 30+00                            | -  | 30+20   | RT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 30+55                            | -  | 31+05   | RT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 30+60                            | -  | 30+70   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 31+29                            | -  | 31+44   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 31+79                            | -  | 31+94   | LT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 32+19                            | -  | 32+29   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 32+40                            | -  | 32+50   | RT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 32+95                            | -  | 33+10   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 33+50                            | -  | 33+90   | RT  | RIDERS CLUB ROAD | 9                         | 9                          |                                                     |                                                                  | 0.01                                    | 0.16                                           |
| 33+55                            | -  | 33+75   | LT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 34+83                            | -  | 34+98   | LT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 34+87                            | -  | 34+97   | RT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 35+48                            | -  | 35+63   | LT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 35+95                            | -  | 36+10   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 35+95                            | -  | 36+10   | LT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 36+50                            | -  | 36+75   | RT  | RIDERS CLUB ROAD | 6                         | 6                          |                                                     |                                                                  | 0.01                                    | 0.1                                            |
| 36+50                            | -  | 36+75   | LT  | RIDERS CLUB ROAD | 6                         | 6                          |                                                     |                                                                  | 0.01                                    | 0.1                                            |
| 39+15                            | -  | 39+30   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 39+15                            | -  | 39+30   | LT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 39+70                            | -  | 39+85   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 39+70                            | -  | 39+85   | LT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 42+25                            | -  | 42+45   | RT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 42+25                            | -  | 42+45   | LT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 42+80                            | -  | 42+95   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 42+80                            | -  | 42+95   | LT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 47+38                            | -  | 47+84   | RT  | RIDERS CLUB ROAD | 10                        | 10                         |                                                     |                                                                  | 0.01                                    | 0.184                                          |
| 47+65                            | -  | 48+00   | LT  | RIDERS CLUB ROAD | 8                         | 8                          |                                                     |                                                                  | 0.01                                    | 0.14                                           |
| 47+70                            | -  | 48+00   | RT  | RIDERS CLUB ROAD | 7                         | 7                          |                                                     |                                                                  | 0.01                                    | 0.12                                           |
| 48+35                            | -  | 48+55   | LT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 48+35                            | -  | 48+70   | RT  | RIDERS CLUB ROAD | 6                         | 6                          |                                                     |                                                                  | 0.01                                    | 0.1                                            |
| 50+75                            | -  | 50+95   | RT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 50+92                            | -  | 50+97   | LT  | RIDERS CLUB ROAD | 1                         | 1                          |                                                     |                                                                  | 0.01                                    | 0.02                                           |
| 51+35                            | -  | 51+50   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 51+45                            | -  | 51+60   | LT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 51+83                            | -  | 51+88   | LT  | RIDERS CLUB ROAD | 1                         | 1                          |                                                     |                                                                  | 0.01                                    | 0.02                                           |
| 52+37                            | -  | 52+42   | RT  | RIDERS CLUB ROAD | 1                         | 1                          |                                                     |                                                                  | 0.01                                    | 0.02                                           |
| 56+60                            | -  | 57+00   | LT  | RIDERS CLUB ROAD | 9                         | 9                          |                                                     |                                                                  | 0.01                                    | 0.16                                           |
| 57+50                            | -  | 57+70   | LT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 57+50                            | -  | 57+65   | RT  | RIDERS CLUB ROAD | 3                         | 3                          |                                                     |                                                                  | 0.01                                    | 0.06                                           |
| 58+05                            | -  | 58+25   | LT  | RIDERS CLUB ROAD | 4                         | 4                          |                                                     |                                                                  | 0.01                                    | 0.08                                           |
| 59+35                            | -  | 59+60   | RT  | RIDERS CLUB ROAD | 6                         | 6                          |                                                     |                                                                  | 0.01                                    | 0.1                                            |
| 60+45                            | -  | 60+80   | RT  | RIDERS CLUB ROAD | 8                         | 8                          |                                                     |                                                                  | 0.01                                    | 0.14                                           |
| 68+48                            | -  | 68+58   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 68+78                            | -  | 68+88   | LT  | RIDERS CLUB ROAD | 2                         | 2                          |                                                     |                                                                  | 0.01                                    | 0.04                                           |
| 69+65                            | -  | 69+95   | RT  | RIDERS CLUB ROAD | 7                         | 7                          |                                                     |                                                                  | 0.01                                    | 0.12                                           |
|                                  |    |         |     | UNDISTRIBUTED    | 65                        | 65                         | 2                                                   | 2                                                                | 0.16                                    | 1.2                                            |
| PROJECT TOTALS                   |    |         |     |                  | 323                       | 323                        | 2                                                   | 2                                                                | 0.81                                    | 5.81                                           |

| INLET PROTECTION                 |     |                                 |                                                |
|----------------------------------|-----|---------------------------------|------------------------------------------------|
| STATION                          | DIR | LOCATION OR<br>STRUCTURE NUMBER | 628.7015<br>INLET PROTECTION<br>TYPE C<br>EACH |
| PROJECT 5991-02-57 CATEGORY 0020 |     |                                 |                                                |
| 15+00                            | RT  | EXIST RIDERS CLUB ROAD          | 2                                              |
| 15+00                            | LT  | EXIST RIDERS CLUB ROAD          | 2                                              |
| 19+00                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 19+00                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 27+25                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 30+15                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 30+15                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 30+55                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 30+55                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 53+15                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 53+50                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 50+90                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 51+30                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 55+60                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 55+60                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 57+60                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 57+80                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 58+10                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 61+20                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 61+20                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 64+20                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 64+25                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 68+00                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 68+00                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 70+20                            | LT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| 70+60                            | RT  | EXIST RIDERS CLUB ROAD          | 1                                              |
| PROJECT TOTALS                   |     |                                 | 28                                             |

| SIGNING ITEMS                    |             |                     |           |       |          |          |          |          |          |
|----------------------------------|-------------|---------------------|-----------|-------|----------|----------|----------|----------|----------|
| ZONE                             | SIGN NUMBER | LOCATION            | SIGN CODE | SIZE  | 638.2602 | 638.3000 | 634.0614 | 634.0616 | 637.2210 |
| PROJECT 5991-02-57 CATEGORY 0010 |             |                     |           |       |          |          |          |          |          |
| 1                                | 1-00        | RIDERS CLUB ROAD    | R7-53-4   | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 1-01R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 1-02        | RIDERS CLUB ROAD    | R2-1      | 24X30 |          |          | 1        |          | 5.00     |
|                                  | 1-03        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 1-04        | RIDERS CLUB ROAD    | R7-52L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 1-05        | RIDERS CLUB ROAD    | R7-52R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 2-00R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 2-01        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 2-02R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 2-03        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 2-04        | RIDERS CLUB ROAD    | R7-52L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 2-05        | RIDERS CLUB ROAD    | R7-52R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 2-06R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 2-07        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 3-00        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 3-01        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 3-02R       | 3RD AVENUE NORTH    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 3-03        | 3RD AVENUE NORTH    | R1-1      | 30x30 |          |          | 1        |          | 5.18     |
|                                  | 3-04        | RIDERS CLUB ROAD    | R7-51R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 3-05        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 4-00        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 4-01R       | RED CEDAR COURT     | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 4-02        | RED CEDAR COURT     | R1-1      | 30x30 |          |          | 1        |          | 5.18     |
|                                  | 4-03        | RIDERS CLUB ROAD    | R7-51R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 4-04R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 4-05        | RIDERS CLUB ROAD    | R2-1      | 24X30 |          |          | 1        |          | 5.00     |
|                                  | 4-06        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 4-07        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 4-08R       | 4TH AVE NORTH       | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 4-09        | 4TH AVE NORTH       | R1-1      | 30X30 |          |          | 1        |          | 5.18     |
|                                  | 4-10        | RIDERS CLUB ROAD    | R7-51R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 5-00        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 5-01        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 5-02R       | RIDGEWAY AVE        | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 5-03        | RIDGEWAY AVE        | R1-1      | 30X30 |          |          | 1        |          | 5.18     |
|                                  | 5-04R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 5-05        | RIDERS CLUB ROAD    | W3-1      | 30X30 |          |          | 1        |          | 6.25     |
|                                  | 5-06        | RIDERS CLUB ROAD    | R7-51R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 5-07        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 5-08        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 5-09R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 5-10        | RIDERS CLUB ROAD    | R5-2      | 24X24 |          |          | 1        |          | 4.00     |
|                                  | 5-11R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 2        |          |          |          |
|                                  | 5-12        | RIDERS CLUB ROAD    | R1-1      | 48X48 |          |          |          | 2        | 13.25    |
|                                  | 5-12        | RIDERS CLUB ROAD    | W4-4P     | 42X18 |          |          |          |          | 5.25     |
|                                  | 5-13R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 2        |          |          |          |
|                                  | 5-14        | RIDERS CLUB ROAD    | R1-1      | 36X36 |          |          |          | 2        | 13.25    |
|                                  | 5-14        | RIDERS CLUB ROAD    | W4-4P     | 36X15 |          |          |          |          | 5.25     |
|                                  | 5-15        | RIDERS CLUB ROAD    | R7-51R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 5-16R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 5-17        | RIDERS CLUB ROAD    | R14-1     | 24X18 |          |          | 1        |          | 3.00     |
|                                  | 5-18R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 5-19        | RIDERS CLUB ROAD    | R2-1      | 24X30 |          |          | 1        |          | 5.00     |
|                                  | 6-00        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 6-01        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 6-02R       | JOHNSON STREET      | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 6-03        | JOHNSON STREET      | R1-1      | 30X30 |          |          | 1        |          | 5.18     |
|                                  | 6-04R       | JOHNSON STREET      | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 6-05        | JOHNSON STREET      | R1-1      | 30X30 |          |          | 1        |          | 5.18     |
|                                  | 6-06        | RIDERS CLUB ROAD    | R7-51R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 6-07R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 6-08        | RIDERS CLUB ROAD    | W3-1      | 30X30 |          |          | 1        |          | 6.25     |
|                                  | 6-09        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 6-10        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 6-11R       | PINE STREET         | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 6-12        | PINE STREET         | R1-1      | 30X30 |          |          | 1        |          | 5.18     |
|                                  | 6-13R       | PINE STREET         | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 6-14        | PINE STREET         | R1-1      | 30X30 |          |          | 1        |          | 5.18     |
|                                  | 6-15        | RIDERS CLUB ROAD    | R7-51R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 7-00        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 7-01        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 7-02R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 7-03        | RIDERS CLUB ROAD    | R2-1      | 24X30 |          |          | 1        |          | 5.00     |
|                                  | 7-04R       | CLIFFVIEW AVE NORTH | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 7-05        | CLIFFVIEW AVE NORTH | R1-1      | 30X30 |          |          | 1        |          | 5.18     |
|                                  | 7-06R       | CLIFFVIEW AVE NORTH | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 7-07        | CLIFFVIEW AVE NORTH | R1-1      | 30X30 |          |          | 1        |          | 5.18     |
|                                  | 7-08        | RIDERS CLUB ROAD    | R7-51R    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 8-00        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 8-01        | RIDERS CLUB ROAD    | R7-51L    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 8-02R       | OAK AVE NORTH       | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 8-03        | OAK AVE NORTH       | R1-1      | 36X36 |          |          | 1        |          | 9.00     |
|                                  | 8-04        | RIDERS CLUB ROAD    | R7-53L    | 18X24 |          |          | 1        |          | 7.46     |
|                                  | 8-05R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 8-06R       | RIDERS CLUB ROAD    | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 8-07        | RIDERS CLUB ROAD    | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
| SUBTOTALS                        |             |                     |           |       | 26       | 28       | 56       | 4        | 252.76   |

| SIGNING ITEMS CONT.              |             |                  |           |       |          |          |          |          |          |
|----------------------------------|-------------|------------------|-----------|-------|----------|----------|----------|----------|----------|
| ZONE                             | SIGN NUMBER | LOCATION         | SIGN CODE | SIZE  | 638.2602 | 638.3000 | 634.0614 | 634.0616 | 637.2210 |
| PROJECT 5991-02-57 CATEGORY 0010 |             |                  |           |       |          |          |          |          |          |
| 1                                | 9-00R       | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 9-01        | RIDERS CLUB ROAD | R2-1      | 24X30 |          |          | 1        |          | 5.00     |
|                                  | 9-02R       | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 9-03        | RIDERS CLUB ROAD | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 9-04R       | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 9-05        | RIDERS CLUB ROAD | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 9-06R       | FRANKLIN STREET  | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 9-07        | FRANKLIN STREET  | R1-1      | 36X36 |          |          | 1        |          | 7.46     |
|                                  | 9-08        | RIDERS CLUB ROAD | R3-9-B    | 24X36 |          |          | 1        |          | 6.00     |
|                                  | 9-09        | RIDERS CLUB ROAD | R3-9-B    | 24X36 |          |          | 1        |          | 4.00     |
| 2                                | 10-00R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 10-01       | RIDERS CLUB ROAD | R2-1      | 24X30 |          |          | 1        |          | 5.00     |
|                                  | 10-02R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 10-03       | RIDERS CLUB ROAD | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 10-04       | RIDERS CLUB ROAD | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 10-05       | RIDERS CLUB ROAD | R3-9-B    | 24X36 |          |          | 1        |          | 6.00     |
|                                  | 10-06       | RIDERS CLUB ROAD | R3-9-B    | 24X36 |          |          | 1        |          | 6.00     |
|                                  | 11-00R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 11-01       | RIDERS CLUB ROAD | R2-1      | 24X30 |          |          | 1        |          | 5.00     |
|                                  | 11-02R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 11-03       | RIDERS CLUB ROAD | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 11-04       | RIDERS CLUB ROAD | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 11-05R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 11-06       | RIDERS CLUB ROAD | W2-6      | 30X30 |          |          |          | 1        | 6.25     |
|                                  | 11-06       | RIDERS CLUB ROAD | W2-6P     | 30X16 |          |          |          |          | 3.33     |
|                                  | 11-06       | RIDERS CLUB ROAD | W13-1     | 18X18 |          |          |          |          | 2.25     |
|                                  | 12-00R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 12-01       | RIDERS CLUB ROAD | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 12-02       | RIDERS CLUB ROAD | R3-9-C    | 24X6  |          |          | 1        |          | 1.00     |
|                                  | 12-02       | RIDERS CLUB ROAD | R3-9-B    | 24X36 |          |          |          |          | 6.00     |
|                                  | 12-03R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 12-04       | RIDERS CLUB ROAD | W3-2      | 36X36 |          |          | 1        |          | 9.00     |
|                                  | 12-05R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 12-06       | RIDERS CLUB ROAD | R3-9-D    | 24X6  |          |          | 1        |          | 1.00     |
|                                  | 12-06       | RIDERS CLUB ROAD | R3-9-B    | 24X36 |          |          |          |          | 6.00     |
|                                  | 12-07       | RIDERS CLUB ROAD | R7-53D    | 18X24 |          |          | 1        |          | 3.00     |
|                                  | 12-08R      | RIDERS CLUB ROAD | REMOVE    |       | 1        | 1        |          |          |          |
|                                  | 12-09       | RIDERS CLUB ROAD | R2-1      | 24X30 |          |          | 1        |          | 5.00     |
| SUBTOTALS                        |             |                  |           |       | 13       | 13       | 20       | 1        | 108.29   |
| PROJECT TOTALS                   |             |                  |           |       | 39       | 41       | 76       | 5        | 361.05   |

| TRAFFIC CONTROL                  |                 |                                |                                                   |      |                                                    |      |                                                         |      |                                      |      |                                           |      |                                                 |      |                             |
|----------------------------------|-----------------|--------------------------------|---------------------------------------------------|------|----------------------------------------------------|------|---------------------------------------------------------|------|--------------------------------------|------|-------------------------------------------|------|-------------------------------------------------|------|-----------------------------|
| ZONE                             | LOCATION        | APPROX. SERVICE PERIOD<br>DAYS | 643.0410<br>TRAFFIC CONTROL<br>BARRICADES TYPE II |      | 643.0420<br>TRAFFIC CONTROL<br>BARRICADES TYPE III |      | 643.0705<br>TRAFFIC CONTROL<br>WARNING LIGHTS<br>TYPE A |      | 643.0900<br>TRAFFIC CONTROL<br>SIGNS |      | 643.1050<br>TRAFFIC CONTROL<br>SIGNS PCMS |      | 643.1070<br>TRAFFIC CONTROL<br>CONES<br>42-INCH |      | 643.5000<br>TRAFFIC CONTROL |
|                                  |                 |                                | NO.                                               | DAYS | NO.                                                | DAYS | NO.                                                     | DAYS | NO.                                  | DAYS | NO.                                       | DAYS | NO.                                             | DAYS |                             |
| PROJECT 5991-02-57 CATEGORY 0010 |                 |                                |                                                   |      |                                                    |      |                                                         |      |                                      |      |                                           |      |                                                 |      |                             |
|                                  | PROJECT         |                                |                                                   |      |                                                    |      |                                                         |      |                                      |      |                                           |      |                                                 |      | 1                           |
| 1                                | STA 11+70       | 58                             | 2                                                 | 29   | 9                                                  | 522  | 20                                                      | 1160 | 8                                    | 464  | 1                                         | 3    |                                                 |      |                             |
|                                  | 3RD AVE N       | 58                             | 2                                                 | 29   | 9                                                  | 522  | 22                                                      | 1276 | 7                                    | 406  |                                           |      |                                                 |      |                             |
|                                  | RED CEDAR CT    | 58                             | 2                                                 | 29   | 5                                                  | 290  | 10                                                      | 580  | 3                                    | 174  |                                           |      |                                                 |      |                             |
|                                  | 4TH AVE N       | 58                             | 2                                                 | 29   | 5                                                  | 290  | 10                                                      | 580  | 3                                    | 174  |                                           |      |                                                 |      |                             |
|                                  | RIDGEWAY AVE    | 58                             | 2                                                 | 29   | 5                                                  | 290  | 10                                                      | 580  | 3                                    | 174  |                                           |      |                                                 |      |                             |
|                                  | EAST AVE        | 58                             | 4                                                 | 58   | 14                                                 | 812  | 32                                                      | 1856 | 10                                   | 580  |                                           |      |                                                 |      |                             |
|                                  | JOHNSON ST      | 58                             | 4                                                 | 58   | 10                                                 | 580  | 20                                                      | 1160 | 6                                    | 348  |                                           |      |                                                 |      |                             |
|                                  | PINE ST         | 58                             | 4                                                 | 58   | 10                                                 | 580  | 20                                                      | 1160 | 6                                    | 348  |                                           |      |                                                 |      |                             |
|                                  | CLIFFVIEW AVE N | 58                             | 4                                                 | 58   | 10                                                 | 580  | 20                                                      | 1160 | 6                                    | 348  |                                           |      |                                                 |      |                             |
| OAK AVE N                        | 58              | 2                              | 29                                                | 9    | 522                                                | 22   | 1276                                                    | 7    | 406                                  |      |                                           |      |                                                 |      |                             |
|                                  | STA 57+50       | 58                             | 2                                                 | 29   | 11                                                 | 638  | 22                                                      | 1276 | 10                                   | 580  |                                           |      |                                                 |      |                             |
| 2<br>STAGE 1                     | FRANKLIN ST     | 16                             | 2                                                 | 8    | 9                                                  | 144  | 22                                                      | 352  | 10                                   | 160  |                                           |      |                                                 | 34   | 544                         |
|                                  | STA 72+78.53    | 16                             | 2                                                 | 8    | 5                                                  | 80   | 10                                                      | 160  | 8                                    | 128  |                                           |      |                                                 |      |                             |
| 2<br>STAGE 2                     | FRANKLIN ST     | 16                             | 2                                                 | 8    | 9                                                  | 144  | 22                                                      | 352  | 10                                   | 160  |                                           |      |                                                 | 34   | 544                         |
|                                  | STA 72+78.53    | 16                             | 2                                                 | 8    | 5                                                  | 80   | 10                                                      | 160  | 8                                    | 128  | 1                                         | 3    |                                                 |      |                             |
| PROJECT TOTALS                   |                 |                                | 467                                               |      | 6074                                               |      | 13088                                                   |      | 4578                                 |      | 6                                         |      | 1088                                            |      | 1                           |

| PEDESTRIAN ACCOMMODATION         |       |                         |                                                                   |                                              |
|----------------------------------|-------|-------------------------|-------------------------------------------------------------------|----------------------------------------------|
| STATION                          | DIR   | CROSSING LOCATION       | 644.1420.S<br>TEMPORARY<br>PEDESTRIAN<br>SURFACE<br>PLYWOOD<br>SF | 644.1601.S<br>TEMPORARY<br>CURB RAMP<br>EACH |
| PROJECT 5991-00-57 CATEGORY 0010 |       |                         |                                                                   |                                              |
| 11+65                            | LT/RT | CROSSING RIDERS CLUB    |                                                                   | 2                                            |
| 23+80                            |       | CROSSING RIDERS CLUB    | 152                                                               | 2                                            |
| 36+30                            | LT/RT | CROSSING EAST AVE NORTH |                                                                   | 4                                            |
| 36+00                            |       | CROSSING RIDERS CLUB    | 152                                                               | 2                                            |
| 51+15                            | RT    | CROSSING OAK AVE NORTH  |                                                                   | 2                                            |
| 51+00                            |       | CROSSING RIDERS CLUB    | 152                                                               | 2                                            |
| 57+50                            |       | CROSSING RIDERS CLUB    | 204                                                               | 2                                            |
| 57+85 LT                         |       | CROSSING FRANKLIN ST    |                                                                   | 2                                            |
| PROJECT TOTAL                    |       |                         | 660                                                               | 18                                           |

| PAVEMENT MARKING                 |    |          |                   |              |              |              |               |                |              |                    |                        |                           |                     |                           |                                    |           |
|----------------------------------|----|----------|-------------------|--------------|--------------|--------------|---------------|----------------|--------------|--------------------|------------------------|---------------------------|---------------------|---------------------------|------------------------------------|-----------|
| STATION                          | TO | STATION  | ROADWAY           | 646.1020     |              | 646.3020     | 646.5020      | 646.5220       | 646.5120     | 646.6120           | 646.7120               | 646.7420                  | 646.9000            | 649.0105                  | 646.0150                           |           |
|                                  |    |          |                   | MARKING LINE | MARKING LINE | MARKING LINE | MARKING ARROW | MARKING SYMBOL | MARKING WORD | MARKING STOP       | MARKING                | MARKING                   | MARKING             | MARKING                   | TEMPORARY                          | TEMPORARY |
|                                  |    |          |                   | EPOXY 4-INCH | EPOXY 4-INCH | EPOXY 8-INCH | EPOXY EACH    | EPOXY EACH     | EPOXY EACH   | LINE EPOXY 18-INCH | DIAGONAL EPOXY 12-INCH | CROSSWALK EPOXY           | REMOVAL LINE 4-INCH | MARKING LINE PAINT 4-INCH | MARKING LINE REMOVABLE TAPE 4-INCH |           |
|                                  |    |          | (YELLOW, SKIP) LF | (WHITE) LF   |              |              |               |                |              | 18-INCH LF         | LF                     | TRANSVERSE LINE 6-INCH LF | LF                  | LF                        | LF                                 |           |
| PROJECT 5991-02-57 CATEGORY 0010 |    |          |                   |              |              |              |               |                |              |                    |                        |                           |                     |                           |                                    |           |
| 11+70                            |    | 24+25    | RIDERS CLUB ROAD  | 312.5        | 3651         | --           | 2             | 2              | --           | --                 | --                     | 335                       | --                  | --                        | --                                 |           |
| 24+25                            |    | 27+40    | RIDERS CLUB ROAD  | 62.5         | 771          | --           | 1             | 1              | --           | --                 | --                     | 68                        | --                  | --                        | --                                 |           |
| 27+40                            |    | 30+35    | RIDERS CLUB ROAD  | 62.5         | 758          | --           | 1             | 1              | --           | --                 | --                     | 147                       | --                  | --                        | --                                 |           |
| 30+35                            |    | 33+30    | RIDERS CLUB ROAD  | 62.5         | 747          | --           | 0             | 0              | 2            | --                 | --                     | 144                       | --                  | --                        | --                                 |           |
| 33+30                            |    | 36+30    | RIDERS CLUB ROAD  | 62.5         | 708          | --           | 1             | 1              | --           | 20                 | --                     | 332                       | --                  | --                        | --                                 |           |
| 36+30                            |    | 39+50    | RIDERS CLUB ROAD  | 75           | 763          | --           | 1             | 1              | --           | 20                 | --                     | 305                       | --                  | --                        | --                                 |           |
| 39+50                            |    | 42+60    | RIDERS CLUB ROAD  | 62.5         | 750          | --           | 0             | 0              | 2            | --                 | --                     | 304                       | --                  | --                        | --                                 |           |
| 42+60                            |    | 48+20    | RIDERS CLUB ROAD  | 125          | 1485         | --           | 2             | 2              | --           | --                 | --                     | 294                       | --                  | --                        | --                                 |           |
| 48+20                            |    | 51+15    | RIDERS CLUB ROAD  | 62.5         | 725          | --           | 1             | 1              | --           | --                 | --                     | 154                       | --                  | --                        | --                                 |           |
| 51+15                            |    | 57+85    | RIDERS CLUB ROAD  | 75           | 1663         | --           | 4             | 2              | --           | --                 | 29                     | 234                       | --                  | --                        | --                                 |           |
| 57+85                            |    | 60+00    | RIDERS CLUB ROAD  | 100          | 721          | 100          | 3             | 1              | --           | --                 | --                     | 182                       | 215                 | --                        | --                                 |           |
| 60+00                            |    | 72+78.53 | RIDERS CLUB ROAD  | 562.5        | 4051         | --           | 9             | 3              | --           | --                 | --                     | 171                       | 1279                | 2558                      | 2558                               |           |
| PROJECT TOTALS                   |    |          |                   | 1625         | 16793        | 100          | 25            | 15             | 4            | 40                 | 29                     | 2670                      | 1494                | 2558                      | 2558                               |           |

| CONSTRUCTION STAKING                                                                                 |    |          |                  |                                                       |                                                |                                                                               |                                                         |
|------------------------------------------------------------------------------------------------------|----|----------|------------------|-------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------|
| STATION                                                                                              | TO | STATION  | LOCATION         | 650.4500<br>CONSTRUCTION<br>STAKING<br>SUBGRADE<br>LF | 650.5000<br>CONSTRUCTION<br>STAKING BASE<br>LF | 650.5500<br>CONSTRUCTION<br>STAKING CURB<br>GUTTER AND CURB<br>& GUTTER<br>LF | 650.9000<br>CONSTRUCTION<br>STAKING CURB<br>RAMPS<br>EA |
| 650.9910<br>CONSTRUCTION<br>STAKING<br>SUPPLEMENTAL<br>CONTROL<br>(PROJECT) 01. 5991-<br>02-57<br>LS |    |          |                  |                                                       |                                                |                                                                               |                                                         |
| PROJECT 5991-02-57 CATEGORY 0010                                                                     |    |          |                  |                                                       |                                                |                                                                               |                                                         |
| 11+70                                                                                                | -  | 72+78.53 | RIDERS CLUB ROAD | 6109                                                  | 6109                                           |                                                                               | 1                                                       |
|                                                                                                      |    | 16+50    | RIDERS CLUB ROAD |                                                       |                                                |                                                                               | 3                                                       |
|                                                                                                      |    | 18+50    | RIDERS CLUB ROAD |                                                       |                                                |                                                                               | 2                                                       |
|                                                                                                      |    | 23+80    | 3RD AVE NORTH    |                                                       |                                                | 33                                                                            | 3                                                       |
|                                                                                                      |    | 23+90    | RIDERS CLUB ROAD |                                                       |                                                | 9                                                                             |                                                         |
|                                                                                                      |    | 24+10    | RIDERS CLUB ROAD |                                                       |                                                | 11                                                                            |                                                         |
|                                                                                                      |    | 24+60    | 3RD AVE NORTH    |                                                       |                                                | 10                                                                            | 1                                                       |
|                                                                                                      |    | 27+20    | RED CEDAR COURT  |                                                       |                                                | 20                                                                            | 1                                                       |
|                                                                                                      |    | 27+60    | RED CEDAR COURT  |                                                       |                                                | 21                                                                            | 3                                                       |
|                                                                                                      |    | 27+70    | RIDERS CLUB ROAD |                                                       |                                                | 12                                                                            |                                                         |
|                                                                                                      |    | 30+10    | 4TH AVENUE NORTH |                                                       |                                                | 20                                                                            | 1                                                       |
|                                                                                                      |    | 30+45    | RIDERS CLUB ROAD |                                                       |                                                | 11                                                                            |                                                         |
|                                                                                                      |    | 30+55    | 4TH AVENUE NORTH |                                                       |                                                | 29                                                                            | 3                                                       |
|                                                                                                      |    | 30+70    | RIDERS CLUB ROAD |                                                       |                                                | 9                                                                             |                                                         |
|                                                                                                      |    | 33+10    | RIDGEWAY AVE     |                                                       |                                                | 19                                                                            | 1                                                       |
|                                                                                                      |    | 33+35    | RIDERS CLUB ROAD |                                                       |                                                | 11                                                                            | 3                                                       |
|                                                                                                      |    | 33+50    | RIDGEWAY AVE     |                                                       |                                                | 29                                                                            |                                                         |
|                                                                                                      |    | 33+65    | RIDERS CLUB ROAD |                                                       |                                                | 9                                                                             |                                                         |
|                                                                                                      |    | 36+00    | EAST AVE NORTH   |                                                       |                                                | 21                                                                            | 2                                                       |
|                                                                                                      |    | 36+00    | EAST AVE NORTH   |                                                       |                                                | 20                                                                            |                                                         |
|                                                                                                      |    | 36+55    | EAST AVE NORTH   |                                                       |                                                | 21                                                                            | 2                                                       |
|                                                                                                      |    | 36+55    | EAST AVE NORTH   |                                                       |                                                | 20                                                                            |                                                         |
|                                                                                                      |    | 39+25    | JOHNSON ST       |                                                       |                                                | 20                                                                            | 2                                                       |
|                                                                                                      |    | 39+25    | JOHNSON ST       |                                                       |                                                | 22                                                                            |                                                         |
|                                                                                                      |    | 39+75    | JOHNSON ST       |                                                       |                                                | 23                                                                            | 2                                                       |
|                                                                                                      |    | 39+75    | JOHNSON ST       |                                                       |                                                | 21                                                                            |                                                         |
|                                                                                                      |    | 42+35    | PINE ST          |                                                       |                                                | 20                                                                            | 2                                                       |
|                                                                                                      |    | 42+25    | PINE ST          |                                                       |                                                | 21                                                                            |                                                         |
|                                                                                                      |    | 42+80    | PINE ST          |                                                       |                                                | 21                                                                            | 2                                                       |
|                                                                                                      |    | 42+80    | PINE ST          |                                                       |                                                | 23                                                                            |                                                         |
|                                                                                                      |    | 48+00    | CLIFFVIEW AVE    |                                                       |                                                | 22                                                                            | 2                                                       |
|                                                                                                      |    | 48+00    | CLIFFVIEW AVE    |                                                       |                                                | 24                                                                            |                                                         |
|                                                                                                      |    | 48+40    | CLIFFVIEW AVE    |                                                       |                                                | 23                                                                            | 2                                                       |
|                                                                                                      |    | 48+40    | CLIFFVIEW AVE    |                                                       |                                                | 25                                                                            |                                                         |
|                                                                                                      |    | 50+90    | OAK AVE NORTH    |                                                       |                                                | 20                                                                            | 1                                                       |
|                                                                                                      |    | 51+30    | OAK AVE NORTH    |                                                       |                                                | 27                                                                            | 3                                                       |
|                                                                                                      |    | 51+50    | RIDERS CLUB ROAD |                                                       |                                                | 9                                                                             |                                                         |
|                                                                                                      |    | 54+00 TO | RIDERS CLUB ROAD |                                                       |                                                | 361                                                                           |                                                         |
|                                                                                                      |    | 54+00 TO | RIDERS CLUB ROAD |                                                       |                                                | 351                                                                           |                                                         |
|                                                                                                      |    | 57+65    | FRANKLIN ST      |                                                       |                                                | 23                                                                            | 3                                                       |
|                                                                                                      |    | 58+05    | FRANKLIN ST      |                                                       |                                                | 10                                                                            | 1                                                       |
|                                                                                                      |    | 59+50    | ENTRANCE DRIVE 1 |                                                       |                                                | 27                                                                            | 1                                                       |
|                                                                                                      |    | 60+50    | ENTRANCE DRIVE 1 |                                                       |                                                | 29                                                                            | 1                                                       |
|                                                                                                      |    | 69+00    | ENTRANCE DRIVE 2 |                                                       |                                                | 27                                                                            | 1                                                       |
| PROJECT TOTALS                                                                                       |    |          |                  | 6109                                                  | 6109                                           | 1480                                                                          | 48                                                      |
|                                                                                                      |    |          |                  |                                                       |                                                |                                                                               | 1                                                       |

| SAWCUTS                          |    |         |     |                         |                                     |                                      |  |
|----------------------------------|----|---------|-----|-------------------------|-------------------------------------|--------------------------------------|--|
| STATION                          | TO | STATION | DIR | LOCATION                | 690.0150<br>SAWING<br>ASPHALT<br>LF | 690.0250<br>SAWING<br>CONCRETE<br>LF |  |
| PROJECT 5991-02-57 CATEGORY 0010 |    |         |     |                         |                                     |                                      |  |
| 11+70                            | -  |         |     | BEGIN: RIDERS CLUB ROAD | 40                                  |                                      |  |
| 24+25                            | -  |         |     | 3RD AVENUE NORTH        | 35                                  |                                      |  |
| 27+50                            | -  |         |     | RED CEDAR COURT         | 35                                  |                                      |  |
| 30+25                            | -  |         |     | 4TH AVENUE NORTH        | 35                                  |                                      |  |
| 33+25                            | -  |         |     | RIDGEWAY AVENUE         | 35                                  |                                      |  |
| 36+25                            | -  |         |     | EAST AVENUE NORTH       | 85                                  |                                      |  |
| 39+50                            | -  |         |     | JOHNSON STREET          | 70                                  |                                      |  |
| 42+60                            | -  |         |     | PINE STREET             | 70                                  |                                      |  |
| 48+25                            | -  |         |     | CLIFFVIEW AVENUE NORTH  | 70                                  |                                      |  |
| 51+10                            | -  |         |     | OAK AVENUE NORTH        | 40                                  |                                      |  |
| 57+50                            | -  |         |     | RIDERS CLUB ROAD        | 42                                  |                                      |  |
| 57+80                            | -  |         |     | FRANKLIN STREET         | 35                                  |                                      |  |
| 60+00                            | -  |         |     | TO MENARDS              | 75                                  |                                      |  |
| 70+25                            | -  |         |     | TO MENARDS              | 65                                  |                                      |  |
| 71+00                            | -  |         |     | END: RIDERS CLUB ROAD   | 45                                  |                                      |  |
| 57+50                            | -  | 71+00   | CL  | ZONE 2, STAGE 1 CL      | 1350                                |                                      |  |
| 12+23                            | -  | 12+33   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 12+88                            | -  | 12+98   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 13+53                            | -  | 13+63   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 14+22                            | -  | 14+27   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 15+09                            | -  | 15+19   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 16+50                            | -  | 16+75   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 16+50                            | -  | 16+75   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 18+00                            | -  | 18+05   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 18+50                            | -  | 18+70   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 18+50                            | -  | 18+65   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 18+94                            | -  | 19+04   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 23+60                            | -  | 24+10   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 23+80                            | -  | 24+00   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 24+60                            | -  | 24+80   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 26+48                            | -  | 26+58   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 27+10                            | -  | 27+25   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 27+60                            | -  | 27+80   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 27+60                            | -  | 27+80   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 28+46                            | -  | 28+56   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 28+72                            | -  | 28+82   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 30+00                            | -  | 30+20   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 30+55                            | -  | 31+05   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 30+60                            | -  | 30+70   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 31+29                            | -  | 31+44   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 31+79                            | -  | 31+94   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 32+19                            | -  | 32+29   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 32+40                            | -  | 32+50   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 32+95                            | -  | 33+10   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 33+50                            | -  | 33+90   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 33+55                            | -  | 33+75   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 34+83                            | -  | 34+98   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 34+87                            | -  | 34+97   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 35+48                            | -  | 35+63   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 35+95                            | -  | 36+10   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 35+95                            | -  | 36+10   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 36+50                            | -  | 36+75   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 36+50                            | -  | 36+75   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 39+15                            | -  | 39+30   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 39+15                            | -  | 39+30   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 39+70                            | -  | 39+85   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 39+70                            | -  | 39+85   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 42+25                            | -  | 42+45   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 42+25                            | -  | 42+45   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 42+80                            | -  | 42+95   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 42+80                            | -  | 42+95   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 47+38                            | -  | 47+84   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 47+65                            | -  | 48+00   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 47+70                            | -  | 48+00   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 48+35                            | -  | 48+55   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 48+35                            | -  | 48+70   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 50+75                            | -  | 50+95   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 50+92                            | -  | 50+97   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 51+35                            | -  | 51+50   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 51+45                            | -  | 51+60   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 51+83                            | -  | 51+88   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 52+37                            | -  | 52+42   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 56+60                            | -  | 57+00   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 57+50                            | -  | 57+70   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 57+50                            | -  | 57+65   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 58+05                            | -  | 58+25   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 59+35                            | -  | 59+60   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 60+45                            | -  | 60+80   | RT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 68+48                            | -  | 68+58   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 68+78                            | -  | 68+88   | LT  | RIDERS CLUB ROAD        |                                     | 10                                   |  |
| 69+65                            | -  | 69+95   | RT  | RIDERS CLUB ROAD        |                                     | 5                                    |  |
| PROJECT TOTALS                   |    |         |     |                         | 2127                                | 645                                  |  |

CONVENTIONAL SYMBOLS

|                                                             |      |                           |    |                                      |    |
|-------------------------------------------------------------|------|---------------------------|----|--------------------------------------|----|
| SECTION LINE                                                | ---- | SECTION CORNER SYMBOL     |    | R/W MONUMENT (TO BE SET)             | ●  |
| QUARTER LINE                                                | ---- | SECTION CORNER MONUMENT   |    | NON-MONUMENTED R/W POINT             | ○  |
| SIXTEENTH LINE                                              | ---- | GEODETIC SURVEY MONUMENT  |    | FOUND IRON PIN (1-INCH UNLESS NOTED) | IP |
| NEW REFERENCE LINE                                          | ---- | SIXTEENTH CORNER MONUMENT |    | OFF-PREMISE SIGN                     |    |
| NEW R/W LINE                                                | ---- | SIGN                      |    | COMPENSABLE                          |    |
| EXISTING R/W OR HE LINE                                     | ---- | PARCEL NUMBER             | 25 | NON-COMPENSABLE                      |    |
| PROPERTY LINE                                               | ---- | UTILITY NUMBER            | 40 |                                      |    |
| LOT, TIE & OTHER MINOR LINES                                | ---- | PARALLEL OFFSETS          |    |                                      |    |
| SLOPE INTERCEPT                                             | ---- |                           |    |                                      |    |
| CORPORATE LIMITS                                            | ---- |                           |    |                                      |    |
| UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)        | ---- |                           |    |                                      |    |
| NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)              | ---- |                           |    |                                      |    |
| TEMPORARY LIMITED EASEMENT AREA                             | ---- |                           |    |                                      |    |
| EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT) | ---- |                           |    |                                      |    |
| TRANSMISSION STRUCTURES                                     | ---- |                           |    |                                      |    |
| BUILDING TO BE REMOVED                                      | ---- |                           |    |                                      |    |
| BRIDGE                                                      | ---- |                           |    |                                      |    |

CONVENTIONAL ABBREVIATIONS

|                            |       |                            |        |
|----------------------------|-------|----------------------------|--------|
| ACCESS RIGHTS              | AR    | POINT OF INTERSECTION      | PI     |
| ACRES                      | AC    | PROPERTY LINE              | PL     |
| AHEAD                      | AH    | RECORDED AS                | (100') |
| ALUMINUM                   | ALUM  | REEL / IMAGE               | R/I    |
| AND OTHERS                 | ET AL | REFERENCE LINE             | R/L    |
| BACK                       | BK    | REMAINING                  | REM    |
| BLOCK                      | BLK   | RESTRICTIVE DEVELOPMENT    | RDE    |
| CENTERLINE                 | C/L   | EASEMENT                   |        |
| CERTIFIED SURVEY MAP       | CSM   | RIGHT                      | RT     |
| CONCRETE                   | CONC  | RIGHT OF WAY               | R/W    |
| COUNTY                     | CO    | SECTION                    | SEC    |
| COUNTY TRUNK HIGHWAY       | CTH   | SEPTIC VENT                | SEPV   |
| DISTANCE                   | DIST  | SQUARE FEET                | SF     |
| CORNER                     | COR   | STATE TRUNK HIGHWAY        | STH    |
| DOCUMENT NUMBER            | DOC   | STATION                    | STA    |
| EASEMENT                   | EASE  | TELEPHONE PEDESTAL         | TP     |
| EXISTING                   | EX    | TEMPORARY LIMITED EASEMENT | TLE    |
| GAS VALVE                  | GV    | TRANSPORTATION PROJECT     | TPP    |
| GRID NORTH                 | GN    | PLAT                       |        |
| HIGHWAY EASEMENT           | HE    | UNITED STATES HIGHWAY      | USH    |
| IDENTIFICATION             | ID    | VOLUME                     | V      |
| LAND CONTRACT              | LC    |                            |        |
| LEFT                       | LT    |                            |        |
| MONUMENT                   | MON   |                            |        |
| NATIONAL GEODETIC SURVEY   | NGS   |                            |        |
| NUMBER                     | NO    |                            |        |
| OUTLOT                     | OL    |                            |        |
| PAGE                       | P     |                            |        |
| POINT OF TANGENCY          | PT    |                            |        |
| PERMANENT LIMITED EASEMENT | PLE   |                            |        |
| POINT OF BEGINNING         | POB   |                            |        |
| POINT OF CURVATURE         | PC    |                            |        |
| POINT OF COMPOUND CURVE    | PCC   |                            |        |

CURVE DATA

|                    |         |
|--------------------|---------|
| LONG CHORD         | LCH     |
| LONG CHORD BEARING | LCB     |
| RADIUS             | R       |
| DEGREE OF CURVE    | D       |
| CENTRAL ANGLE      | Δ/DELTA |
| LENGTH OF CURVE    | L       |
| TANGENT            | T       |
| DIRECTION AHEAD    | DA      |
| DIRECTION BACK     | DB      |

NOTES:

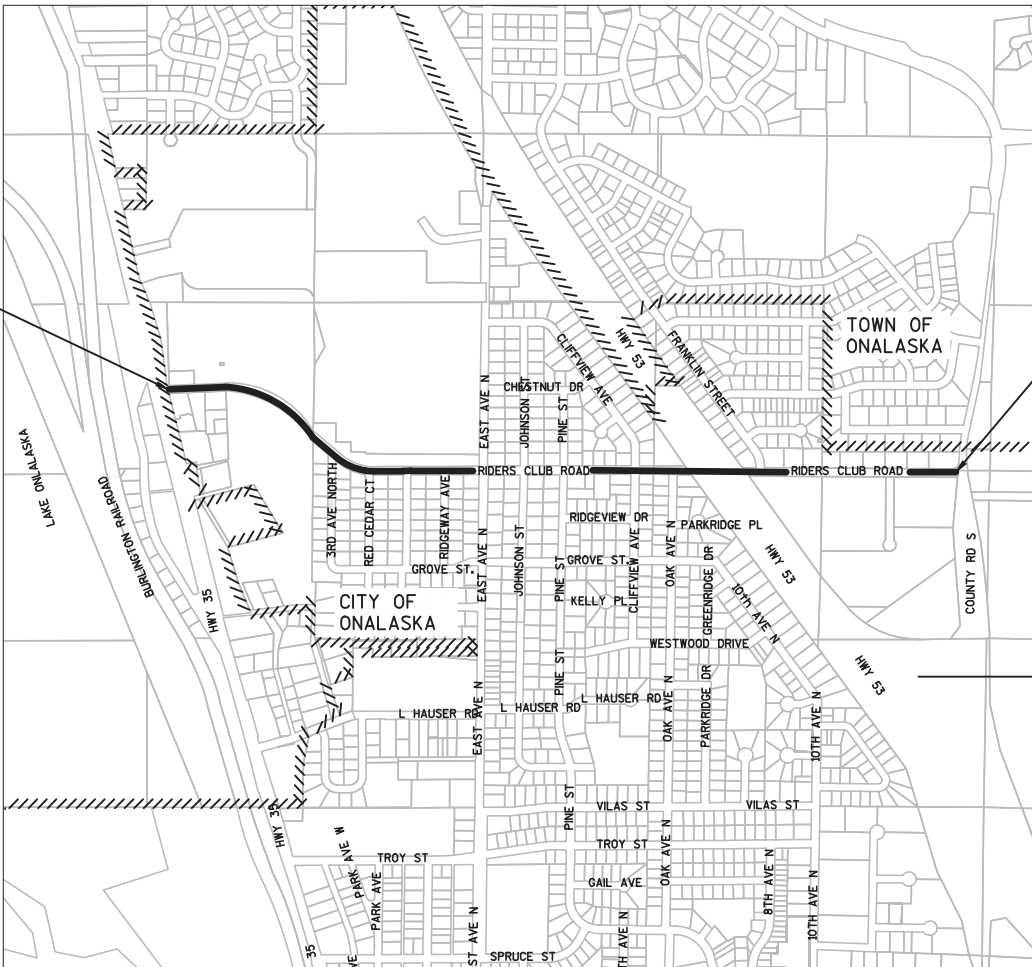
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), LACROSSE COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY MONUMENTS ARE 3/4"X 24" REBAR AND ARE PLACED PRIOR TO OR AT THE TIME OF LAND TITLE TRANSFER.

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

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

Right of Way information should be viewed in DOTView using the Real Estate Project ID. The Plat information contained in this AsBuilt Plan may not be the final records.



BEGIN RELOCATION ORDER  
STA 11+70.00  
Y=166248.572  
X=447240.695  
602.762 FEET NORTH AND 3556.390 FEET WEST OF THE EAST 1/4 CORNER OF SECTION 32, T17N, R7W

END RELOCATION ORDER  
STA 71+00.00  
Y=165665.862  
X=452964.758  
20.053 FEET NORTH AND 2137.673 FEET EAST OF THE EAST 1/4 CORNER OF SECTION 32, T17N, R7W

ORIGINAL PLANS PREPARED BY



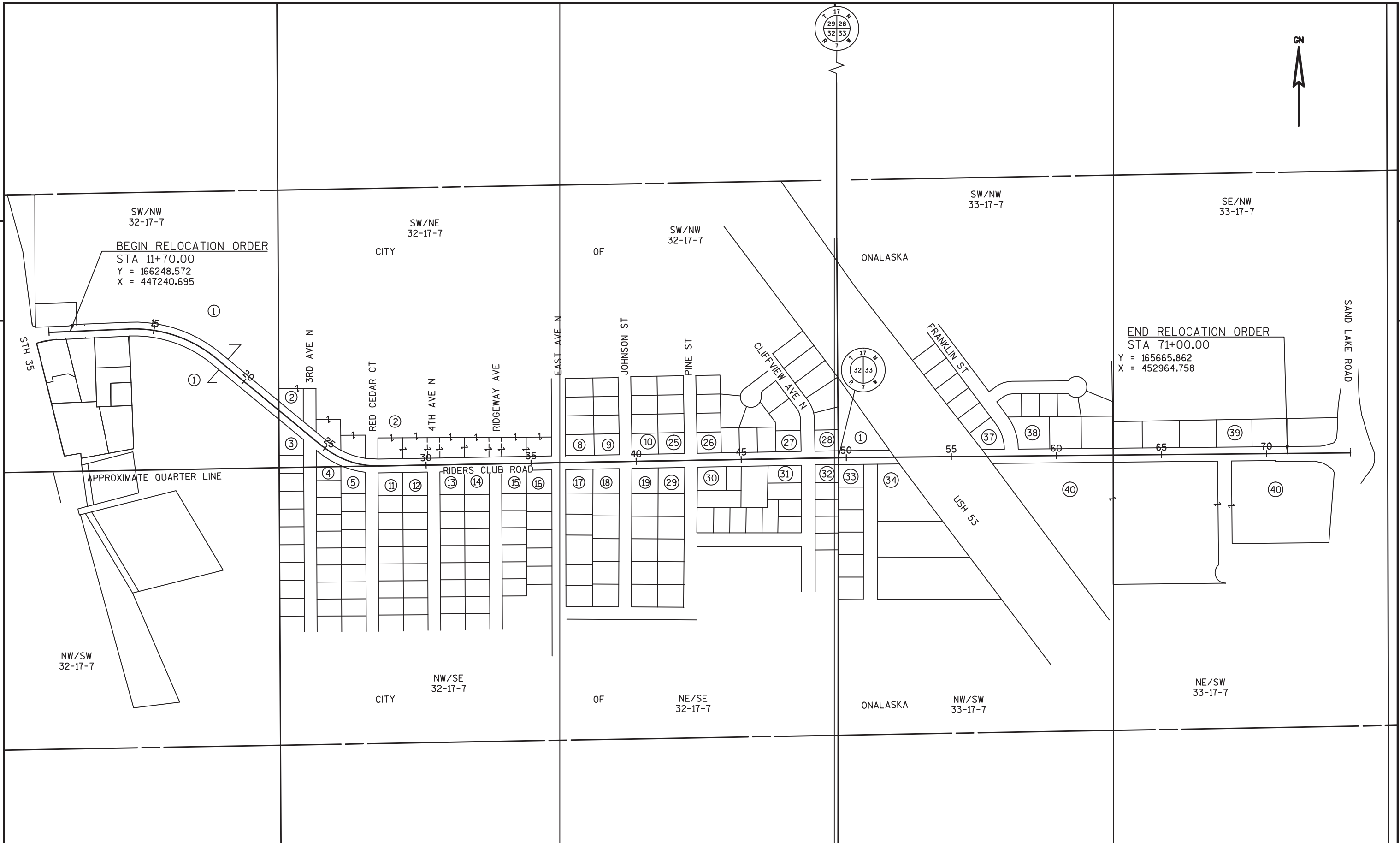
2-7-2017  
(Date) (Signature)

CITY OF ONALASKA

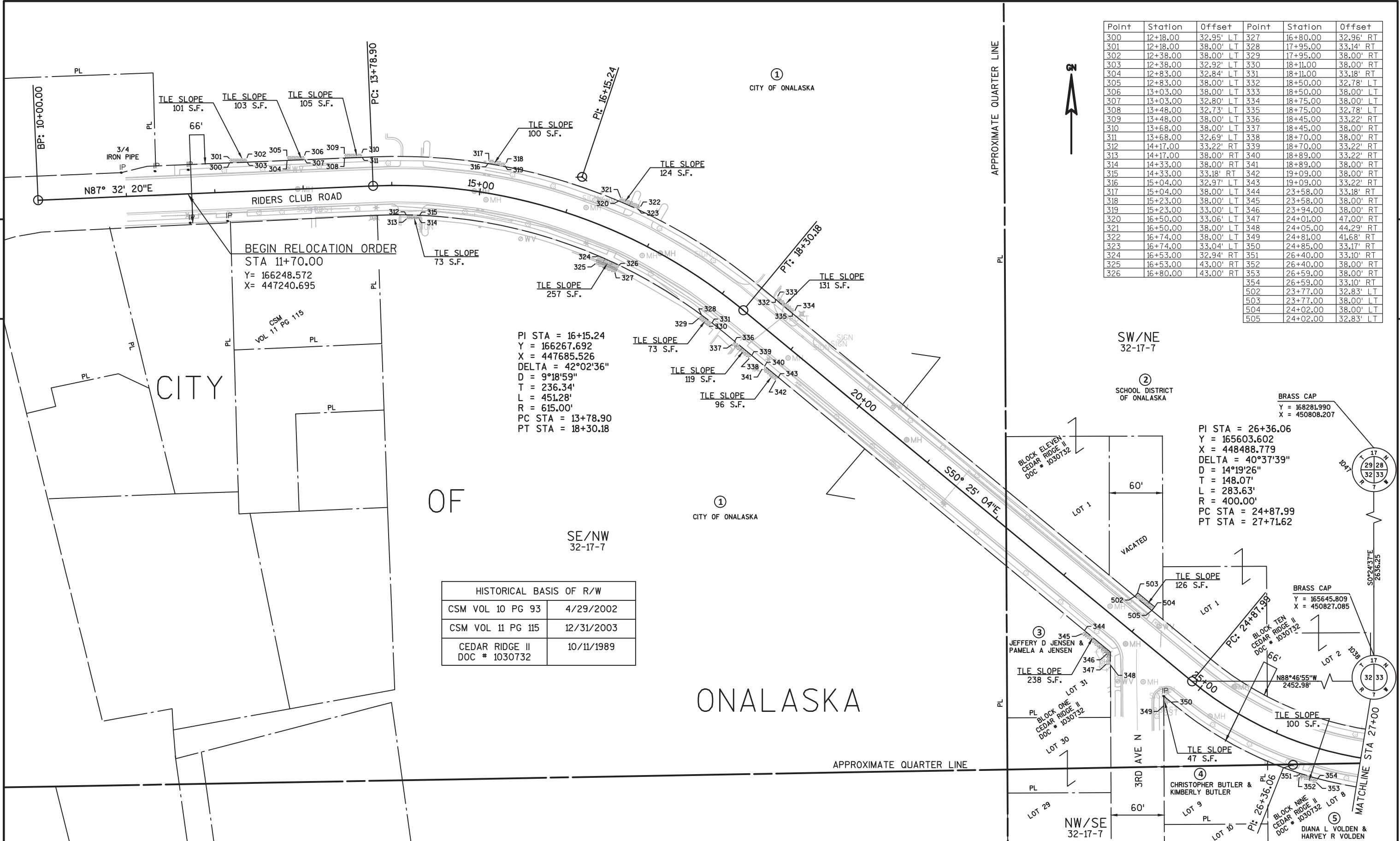
APPROVED FOR THE CITY  
DATE: (Signature)

REVISION DATE

| SCHEDULE OF LANDS & INTERESTS REQUIRED |              |                                        |                   | OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY. |          |       |        |
|----------------------------------------|--------------|----------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------|
| PARCEL NUMBER                          | SHEET NUMBER | OWNER (S)                              | INTEREST REQUIRED | R/W SF REQUIRED                                                                                                                   |          |       | TLE SF |
|                                        |              |                                        |                   | NEW                                                                                                                               | EXISTING | TOTAL |        |
| 1                                      | 4.04/4.06    | CITY OF ONALASKA                       | TLE               | -                                                                                                                                 | -        | -     | 1614   |
| 2                                      | 4.04/4.05    | SCHOOL DISTRICT OF ONALASKA            | TLE               | -                                                                                                                                 | -        | -     | 1243   |
| 3                                      | 4.04         | JEFFERY D JENSEN & PAMELA A JENSEN     | TLE               | -                                                                                                                                 | -        | -     | 238    |
| 4                                      | 4.04         | CHRISTOPHER BUTLER & KIMBERLY BUTLER   | TLE               | -                                                                                                                                 | -        | -     | 47     |
| 5                                      | 4.04/4.05    | DIANA L VOLDEN & HARVEY R VOLDEN       | TLE               | -                                                                                                                                 | -        | -     | 189    |
| 8                                      | 4.05         | KURT J VANAUKEN & COURTNEY M VANAUKEN  | TLE               | -                                                                                                                                 | -        | -     | 111    |
| 9                                      | 4.05         | JANICE K BOLDT                         | TLE               | -                                                                                                                                 | -        | -     | 74     |
| 10                                     | 4.05         | RICHELLE A STETZER                     | TLE               | -                                                                                                                                 | -        | -     | 71     |
| 11                                     | 4.05         | PAUL A JACOBSON & KALEY A JACOBSON     | TLE               | -                                                                                                                                 | -        | -     | 174    |
| 12                                     | 4.05         | CHAD M HILL & TAMERA L HILL            | TLE               | -                                                                                                                                 | -        | -     | 74     |
| 13                                     | 4.05         | SALLY J JERUE                          | TLE               | -                                                                                                                                 | -        | -     | 480    |
| 14                                     | 4.05         | CHRISTOPHER D & ASHLEY AUSTIN BROWN    | TLE               | -                                                                                                                                 | -        | -     | 198    |
| 15                                     | 4.05         | WILLIAM R SR & BEVERLY A BRAM TRUST    | TLE               | -                                                                                                                                 | -        | -     | 232    |
| 16                                     | 4.05         | KENT M MANGLITZ & STEPHANIE N MANGLITZ | TLE               | -                                                                                                                                 | -        | -     | 168    |
| 17                                     | 4.05         | GARY R BAKER & SUSAN M BAKER           | TLE               | -                                                                                                                                 | -        | -     | 112    |
| 18                                     | 4.05         | KENNETH M REGET & SUSAN C REGET        | TLE               | -                                                                                                                                 | -        | -     | 45     |
| 19                                     | 4.05         | STEVEN S KUMM & LISA M KUMM            | TLE               | -                                                                                                                                 | -        | -     | 53     |
| 25                                     | 4.06         | MICHAEL J RITTER & BONNIE K RITTER     | TLE               | -                                                                                                                                 | -        | -     | 74     |
| 26                                     | 4.06         | ROGER D LOWERY & GRETCHEN A LOWREY     | TLE               | -                                                                                                                                 | -        | -     | 94     |
| 27                                     | 4.06         | LORI D SPADEMAN                        | TLE               | -                                                                                                                                 | -        | -     | 228    |
| 28                                     | 4.06         | DONALD M STEIN & MARGARET A STEIN      | TLE               | -                                                                                                                                 | -        | -     | 73     |
| 29                                     | 4.06         | SCOTT K ALO                            | TLE               | -                                                                                                                                 | -        | -     | 71     |
| 30                                     | 4.06         | JASON P ALFRED & KATHY E ALFRED        | TLE               | -                                                                                                                                 | -        | -     | 45     |
| 31                                     | 4.06         | JEFFREY L ABRAHAM & PATRICIA E ABRAHAM | TLE               | -                                                                                                                                 | -        | -     | 251    |
| 32                                     | 4.06         | ROBERT C JOHNSON & MARGARET M JOHNSON  | TLE               | -                                                                                                                                 | -        | -     | 175    |
| 33                                     | 4.06         | RICHARD F MELBY & REGINA E MELANCON    | TLE               | -                                                                                                                                 | -        | -     | 92     |
| 34                                     | 4.06         | QUAN H HUYNH & THUY H HUYNH            | TLE               | -                                                                                                                                 | -        | -     | 206    |
| 37                                     | 4.07         | TERRY J WEILAND                        | TLE               | -                                                                                                                                 | -        | -     | 598    |
| 38                                     | 4.07         | ROCHESTER REAL ESTATE COMPANY LLC      | TLE               | -                                                                                                                                 | -        | -     | 98     |
| 39                                     | 4.07         | JKS HOLDINGS LLC                       | TLE               | -                                                                                                                                 | -        | -     | 248    |
| 40                                     | 4.07         | MENARD INC                             | TLE               | -                                                                                                                                 | -        | -     | 1758   |
| 102                                    | 4.07         | TREMPEALEAU ELECTRIC COOPERATIVE       | RELEASE OF RIGHTS |                                                                                                                                   |          |       |        |
| 103                                    | 4.07         | CITY OF ONALASKA (SANITARY SEWER)      | RELEASE OF RIGHTS |                                                                                                                                   |          |       |        |
| 104                                    | 4.07         | CITY OF ONALASKA (WATER)               | RELEASE OF RIGHTS |                                                                                                                                   |          |       |        |



|                                |                 |              |                       |                                        |                 |   |
|--------------------------------|-----------------|--------------|-----------------------|----------------------------------------|-----------------|---|
| REVISION DATE<br>4-5-2017 N.C. | DATE 2-7-2017   | NOT TO SCALE | HWY: RIDERS CLUB ROAD | STATE R/W PROJECT NUMBER 5991-02-56    | PLAT SHEET 4.03 | E |
|                                | GRID FACTOR N/A |              | COUNTY: LA CROSSE     | CONSTRUCTION PROJECT NUMBER 5991-02-57 | PS&E SHEET 37   |   |



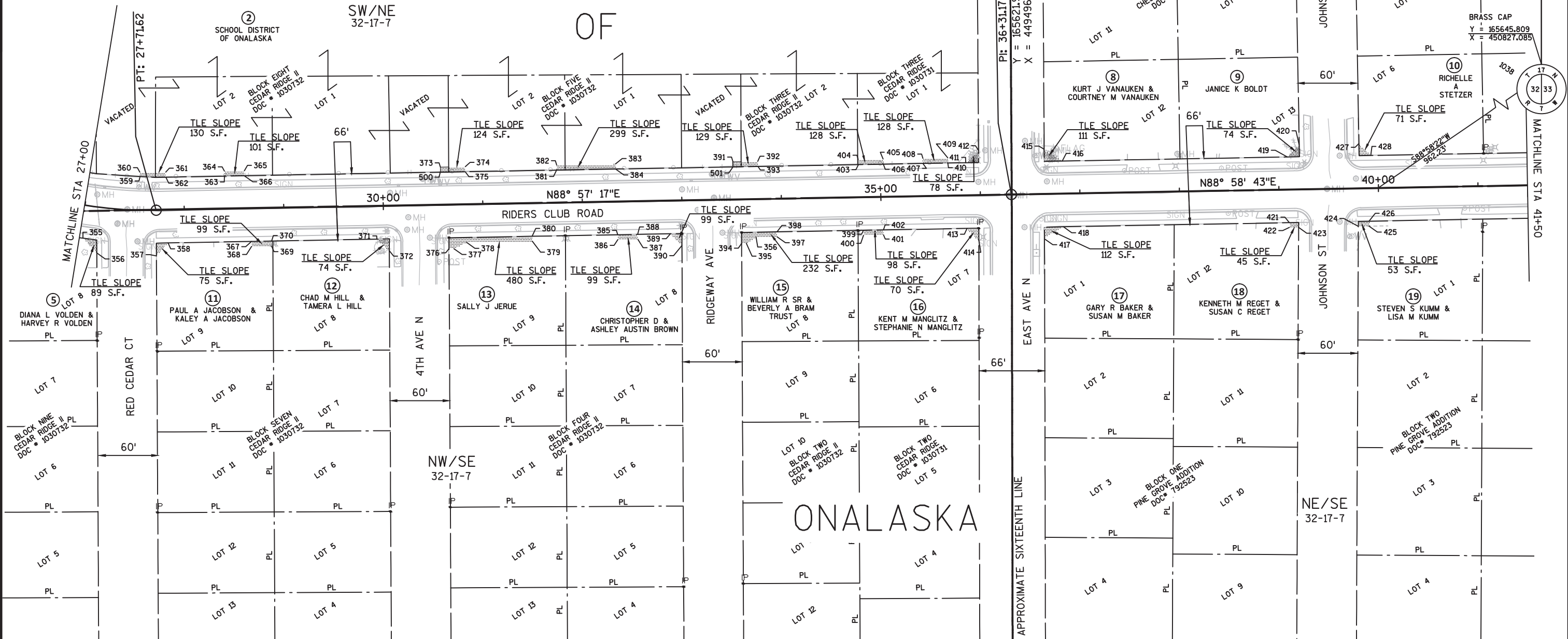
| Point | Station  | Offset    | Point | Station  | Offset    |
|-------|----------|-----------|-------|----------|-----------|
| 300   | 12+18.00 | 32.95' LT | 327   | 16+80.00 | 32.96' RT |
| 301   | 12+18.00 | 38.00' LT | 328   | 17+95.00 | 33.14' RT |
| 302   | 12+38.00 | 38.00' LT | 329   | 17+95.00 | 38.00' RT |
| 303   | 12+38.00 | 32.92' LT | 330   | 18+11.00 | 38.00' RT |
| 304   | 12+83.00 | 32.84' LT | 331   | 18+11.00 | 33.18' RT |
| 305   | 12+83.00 | 38.00' LT | 332   | 18+50.00 | 32.78' LT |
| 306   | 13+03.00 | 38.00' LT | 333   | 18+50.00 | 38.00' LT |
| 307   | 13+03.00 | 32.80' LT | 334   | 18+75.00 | 38.00' LT |
| 308   | 13+48.00 | 32.73' LT | 335   | 18+75.00 | 32.78' LT |
| 309   | 13+48.00 | 38.00' LT | 336   | 18+45.00 | 33.22' RT |
| 310   | 13+68.00 | 38.00' LT | 337   | 18+45.00 | 38.00' RT |
| 311   | 13+68.00 | 32.69' LT | 338   | 18+70.00 | 38.00' RT |
| 312   | 14+17.00 | 33.22' RT | 339   | 18+70.00 | 33.22' RT |
| 313   | 14+17.00 | 38.00' LT | 340   | 18+89.00 | 33.22' RT |
| 314   | 14+33.00 | 38.00' RT | 341   | 18+89.00 | 38.00' RT |
| 315   | 14+33.00 | 33.18' RT | 342   | 19+09.00 | 38.00' RT |
| 316   | 15+04.00 | 32.97' LT | 343   | 19+09.00 | 33.22' RT |
| 317   | 15+04.00 | 38.00' LT | 344   | 23+58.00 | 33.18' RT |
| 318   | 15+23.00 | 38.00' LT | 345   | 23+58.00 | 38.00' RT |
| 319   | 15+23.00 | 33.00' LT | 346   | 23+94.00 | 38.00' RT |
| 320   | 16+50.00 | 33.06' LT | 347   | 24+01.00 | 47.00' RT |
| 321   | 16+50.00 | 38.00' LT | 348   | 24+05.00 | 44.29' RT |
| 322   | 16+74.00 | 38.00' LT | 349   | 24+81.00 | 41.68' RT |
| 323   | 16+74.00 | 33.04' LT | 350   | 24+85.00 | 33.17' RT |
| 324   | 16+53.00 | 32.94' RT | 351   | 26+40.00 | 33.10' RT |
| 325   | 16+53.00 | 43.00' RT | 352   | 26+40.00 | 38.00' RT |
| 326   | 16+80.00 | 43.00' RT | 353   | 26+59.00 | 38.00' RT |
|       |          |           | 354   | 26+59.00 | 33.10' RT |
|       |          |           | 502   | 23+77.00 | 32.83' LT |
|       |          |           | 503   | 23+77.00 | 38.00' LT |
|       |          |           | 504   | 24+02.00 | 38.00' LT |
|       |          |           | 505   | 24+02.00 | 32.83' LT |

| HISTORICAL BASIS OF R/W         |            |
|---------------------------------|------------|
| CSM VOL 10 PG 93                | 4/29/2002  |
| CSM VOL 11 PG 115               | 12/31/2003 |
| CEDAR RIDGE II<br>DOC # 1030732 | 10/11/1989 |

|                                |                 |                         |                       |                                        |                 |
|--------------------------------|-----------------|-------------------------|-----------------------|----------------------------------------|-----------------|
| REVISION DATE<br>4-5-2017 N.C. | DATE 2-7-2017   | SCALE, FEET<br>0 50 100 | HWY: RIDERS CLUB ROAD | STATE R/W PROJECT NUMBER 5991-02-56    | PLAT SHEET 4.04 |
|                                | GRID FACTOR N/A |                         | COUNTY: LACROSSE      | CONSTRUCTION PROJECT NUMBER 5991-02-57 | PS&E SHEET 38   |

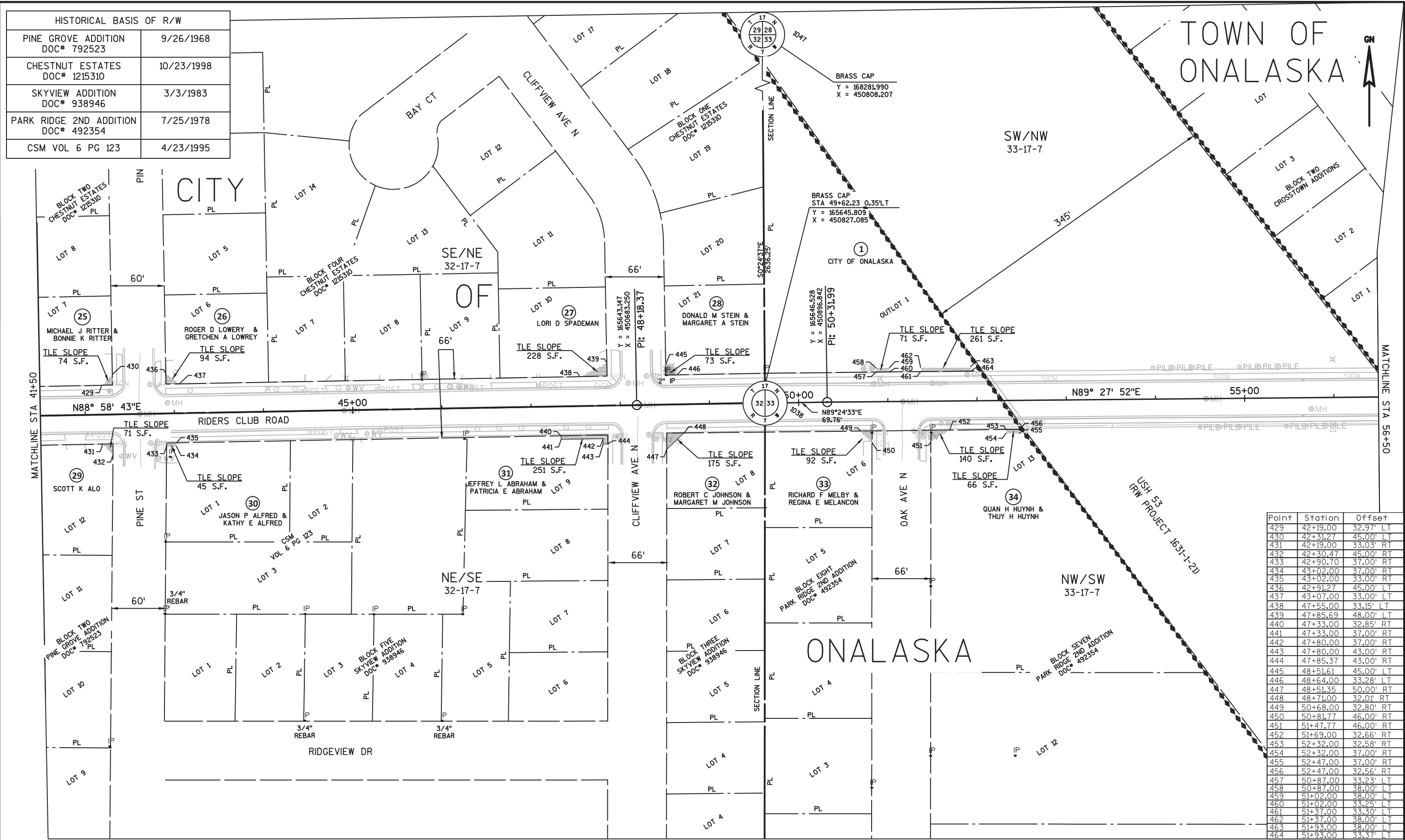
| HISTORICAL BASIS OF R/W            |            |
|------------------------------------|------------|
| PINE GROVE ADDITION<br>DOC# 792523 | 9/26/1968  |
| CEDAR RIDGE<br>DOC # 1030731       | 10/4/1988  |
| CEDAR RIDGE II<br>DOC # 1030732    | 10/11/1989 |
| CHESTNUT ESTATES<br>DOC# 1215310   | 10/23/1998 |

| Point | Station  | Offset    | Point | Station  | Offset    | Point | Station  | Offset    |
|-------|----------|-----------|-------|----------|-----------|-------|----------|-----------|
| 355   | 27+03.00 | 33.07' RT | 382   | 31+75.00 | 38.00' LT | 409   | 35+68.00 | 38.00' LT |
| 356   | 27+17.33 | 46.00' RT | 383   | 32+34.00 | 38.00' LT | 410   | 35+68.00 | 32.89' LT |
| 357   | 27+71.26 | 46.00' RT | 384   | 32+34.00 | 32.92' LT | 411   | 35+86.00 | 32.89' LT |
| 358   | 27+83.00 | 33.04' RT | 385   | 32+35.00 | 33.08' RT | 412   | 35+98.94 | 45.00' LT |
| 359   | 27+54.00 | 32.95' LT | 386   | 32+35.00 | 38.00' RT | 413   | 35+86.00 | 33.11' RT |
| 360   | 27+54.00 | 38.00' LT | 387   | 32+55.00 | 38.00' RT | 414   | 35+97.69 | 45.00' RT |
| 361   | 27+82.00 | 38.00' LT | 388   | 32+55.00 | 33.08' RT | 415   | 36+64.93 | 45.00' LT |
| 362   | 27+82.00 | 32.96' LT | 389   | 32+88.00 | 33.08' RT | 416   | 36+83.00 | 32.78' LT |
| 363   | 28+41.00 | 32.95' LT | 390   | 32+99.28 | 45.00' RT | 417   | 36+63.72 | 45.00' RT |
| 364   | 28+41.00 | 38.00' LT | 391   | 33+52.00 | 38.00' RT | 418   | 36+83.00 | 33.22' RT |
| 365   | 28+61.00 | 38.00' LT | 392   | 33+77.00 | 38.00' LT | 419   | 39+09.00 | 32.86' LT |
| 366   | 28+61.00 | 32.95' LT | 393   | 33+77.00 | 32.91' LT | 420   | 39+21.27 | 45.00' LT |
| 367   | 28+67.00 | 33.05' RT | 394   | 33+59.30 | 44.00' RT | 421   | 39+10.00 | 33.14' RT |
| 368   | 28+67.00 | 38.00' RT | 395   | 33+64.00 | 44.00' RT | 422   | 39+10.00 | 38.00' RT |
| 369   | 28+87.00 | 38.00' RT | 396   | 33+74.00 | 38.00' RT | 423   | 39+19.13 | 38.00' RT |
| 370   | 28+87.00 | 33.05' RT | 397   | 33+95.00 | 38.00' RT | 424   | 39+79.14 | 38.00' RT |
| 371   | 29+93.00 | 33.06' RT | 398   | 33+95.00 | 33.09' RT | 425   | 39+90.00 | 38.00' RT |
| 372   | 30+05.26 | 45.00' RT | 399   | 34+82.00 | 33.10' RT | 426   | 39+90.00 | 33.11' RT |
| 373   | 30+58.00 | 38.00' LT | 400   | 34+82.00 | 38.00' RT | 427   | 39+81.27 | 45.00' LT |
| 374   | 30+83.00 | 38.00' LT | 401   | 35+02.00 | 38.00' RT | 428   | 39+93.00 | 32.89' LT |
| 375   | 30+83.00 | 32.93' LT | 402   | 35+02.00 | 33.10' RT | 500   | 38+58.00 | 32.96' LT |
| 376   | 30+65.27 | 44.00' RT | 403   | 34+78.00 | 32.90' LT | 501   | 33+52.00 | 32.95' LT |
| 377   | 30+70.00 | 44.00' RT | 404   | 34+78.00 | 38.00' LT |       |          |           |
| 378   | 30+83.00 | 38.00' RT | 405   | 35+03.00 | 38.00' LT |       |          |           |
| 379   | 31+49.00 | 38.00' RT | 406   | 35+03.00 | 32.90' LT |       |          |           |
| 380   | 31+49.00 | 33.07' RT | 407   | 35+43.00 | 32.90' LT |       |          |           |
| 381   | 31+75.00 | 32.93' LT | 408   | 35+43.00 | 38.00' LT |       |          |           |



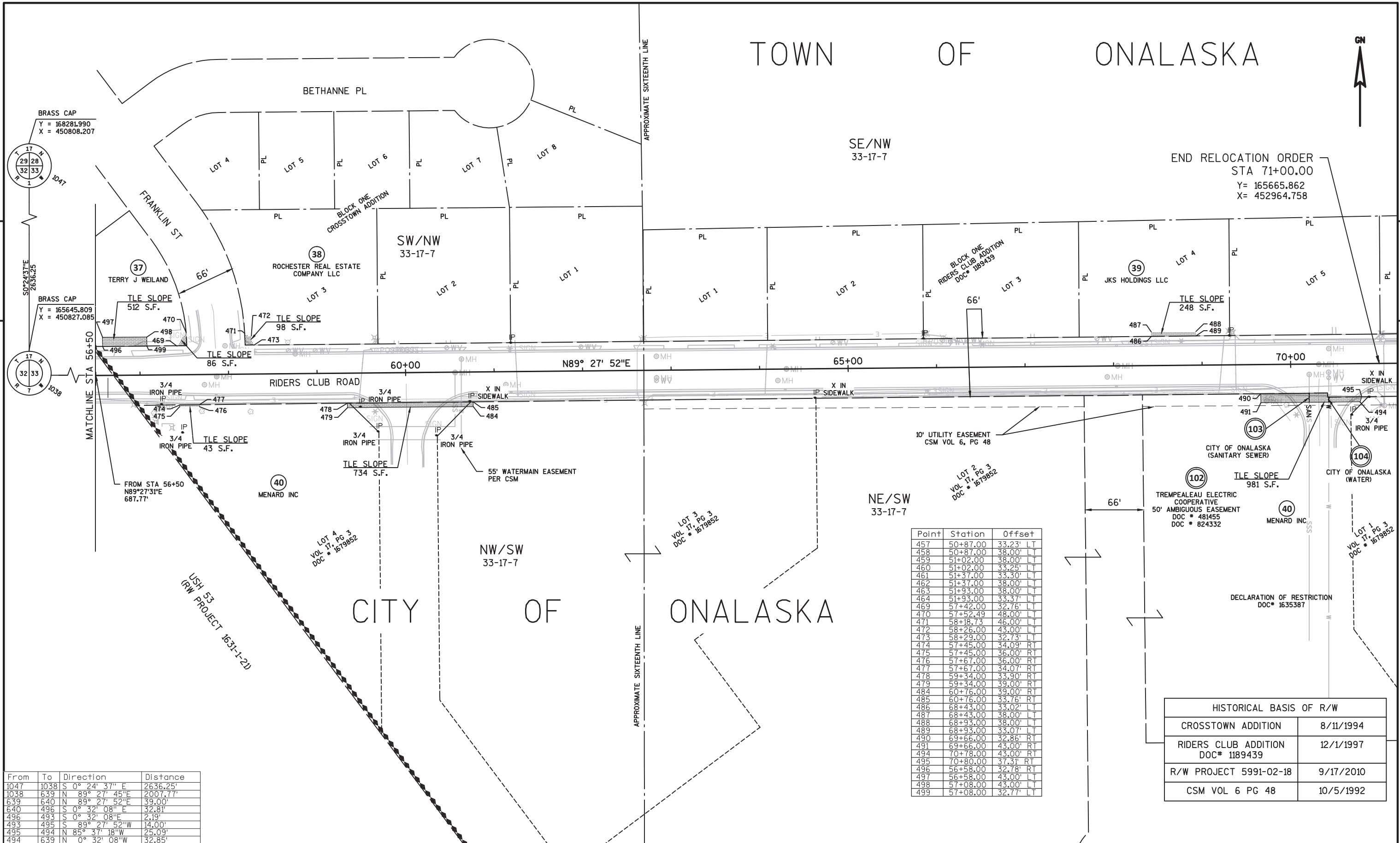
|                                |               |                         |                       |                                        |                 |
|--------------------------------|---------------|-------------------------|-----------------------|----------------------------------------|-----------------|
| REVISION DATE<br>4-5-2017 N.C. | DATE 2-7-2017 | SCALE, FEET<br>0 50 100 | HWY: RIDERS CLUB ROAD | STATE R/W PROJECT NUMBER 5991-02-56    | PLAT SHEET 4.05 |
| GRID FACTOR N/A                |               |                         | COUNTY: LACROSSE      | CONSTRUCTION PROJECT NUMBER 5991-02-57 | PS&E SHEET 39   |

| HISTORICAL BASIS OF R/W                |            |
|----------------------------------------|------------|
| PINE GROVE ADDITION<br>DOC# 792523     | 9/26/1968  |
| CHESTNUT ESTATES<br>DOC# 1215310       | 10/23/1998 |
| SKYVIEW ADDITION<br>DOC# 938946        | 3/3/1983   |
| PARK RIDGE 2ND ADDITION<br>DOC# 492354 | 7/25/1978  |
| CSM VOL 6 PG 123                       | 4/23/1995  |



| Point | Station  | Offset    |
|-------|----------|-----------|
| 429   | 42+19.00 | 32.97' LT |
| 430   | 42+31.27 | 45.00' LT |
| 431   | 42+19.00 | 33.03' RT |
| 432   | 42+30.47 | 45.00' RT |
| 433   | 42+90.70 | 37.00' RT |
| 434   | 43+02.00 | 37.00' RT |
| 435   | 43+02.00 | 33.00' RT |
| 436   | 42+91.27 | 45.00' LT |
| 437   | 43+07.00 | 33.00' LT |
| 438   | 47+55.00 | 33.15' LT |
| 439   | 47+85.69 | 48.00' LT |
| 440   | 47+33.00 | 32.85' RT |
| 441   | 47+33.00 | 37.00' RT |
| 442   | 47+80.00 | 37.00' RT |
| 443   | 47+80.00 | 43.00' RT |
| 444   | 47+85.37 | 43.00' RT |
| 445   | 48+51.61 | 45.00' LT |
| 446   | 48+64.00 | 33.28' LT |
| 447   | 48+51.35 | 50.00' RT |
| 448   | 48+71.00 | 32.01' RT |
| 449   | 50+68.00 | 32.80' RT |
| 450   | 50+81.77 | 46.00' RT |
| 451   | 51+47.77 | 46.00' RT |
| 452   | 51+69.00 | 32.66' RT |
| 453   | 52+32.00 | 32.58' RT |
| 454   | 52+32.00 | 37.00' RT |
| 455   | 52+47.00 | 37.00' RT |
| 456   | 52+47.00 | 32.56' RT |
| 457   | 50+87.00 | 33.23' LT |
| 458   | 50+87.00 | 38.00' LT |
| 459   | 51+02.00 | 38.00' LT |
| 460   | 51+02.00 | 33.25' LT |
| 461   | 51+37.00 | 33.30' LT |
| 462   | 51+37.00 | 38.00' LT |
| 463   | 51+93.00 | 38.00' LT |
| 464   | 51+93.00 | 33.37' LT |

|                                |                 |                         |                       |                                        |                 |
|--------------------------------|-----------------|-------------------------|-----------------------|----------------------------------------|-----------------|
| REVISION DATE<br>4-5-2017 N.C. | DATE 2-7-2017   | SCALE, FEET<br>0 50 100 | HWY: RIDERS CLUB ROAD | STATE R/W PROJECT NUMBER 5991-02-56    | PLAT SHEET 4.06 |
|                                | GRID FACTOR N/A |                         | COUNTY: LACROSSE      | CONSTRUCTION PROJECT NUMBER 5991-02-57 | PS&E SHEET 40   |



| From | To   | Direction       | Distance |
|------|------|-----------------|----------|
| 1047 | 1038 | S 0° 24' 37" E  | 2636.25' |
| 1038 | 639  | N 89° 27' 45" E | 2007.77' |
| 639  | 640  | N 89° 27' 52" E | 39.00'   |
| 640  | 496  | S 0° 32' 08" E  | 32.81'   |
| 496  | 493  | S 0° 32' 08" E  | 2.19'    |
| 493  | 494  | S 89° 27' 52" W | 14.00'   |
| 494  | 639  | N 85° 37' 18" W | 25.09'   |
| 639  | 1047 | N 0° 32' 08" W  | 32.85'   |

| Point | Station  | Offset    |
|-------|----------|-----------|
| 457   | 50+87.00 | 33.23' LT |
| 458   | 50+87.00 | 38.00' LT |
| 459   | 51+02.00 | 38.00' LT |
| 460   | 51+02.00 | 33.25' LT |
| 461   | 51+37.00 | 33.30' LT |
| 462   | 51+37.00 | 38.00' LT |
| 463   | 51+93.00 | 38.00' LT |
| 464   | 51+93.00 | 33.37' LT |
| 469   | 57+42.00 | 32.76' LT |
| 470   | 57+52.49 | 48.00' LT |
| 471   | 58+18.73 | 46.00' LT |
| 472   | 58+26.00 | 43.00' LT |
| 473   | 58+29.00 | 32.73' LT |
| 474   | 57+45.00 | 34.09' RT |
| 475   | 57+45.00 | 36.00' RT |
| 476   | 57+67.00 | 36.00' RT |
| 477   | 57+67.00 | 34.07' RT |
| 478   | 59+34.00 | 33.90' RT |
| 479   | 59+34.00 | 39.00' RT |
| 484   | 60+76.00 | 39.00' RT |
| 485   | 60+76.00 | 33.76' RT |
| 486   | 68+43.00 | 33.02' LT |
| 487   | 68+43.00 | 38.00' LT |
| 488   | 68+93.00 | 38.00' LT |
| 489   | 68+93.00 | 33.07' LT |
| 490   | 69+66.00 | 32.86' RT |
| 491   | 69+66.00 | 43.00' RT |
| 494   | 70+78.00 | 43.00' RT |
| 495   | 70+80.00 | 37.31' RT |
| 496   | 56+58.00 | 32.78' RT |
| 497   | 56+58.00 | 43.00' LT |
| 498   | 57+08.00 | 43.00' LT |
| 499   | 57+08.00 | 32.77' LT |

| HISTORICAL BASIS OF R/W              |           |
|--------------------------------------|-----------|
| CROSSTOWN ADDITION                   | 8/11/1994 |
| RIDERS CLUB ADDITION<br>DOC# 1189439 | 12/1/1997 |
| R/W PROJECT 5991-02-18               | 9/17/2010 |
| CSM VOL 6 PG 48                      | 10/5/1992 |

REVISION DATE  
4-5-2017

DATE 2-7-2017

GRID FACTOR N/A

SCALE, FEET  
0 50 100

HWY: RIDERS CLUB ROAD

COUNTY: LACROSSE

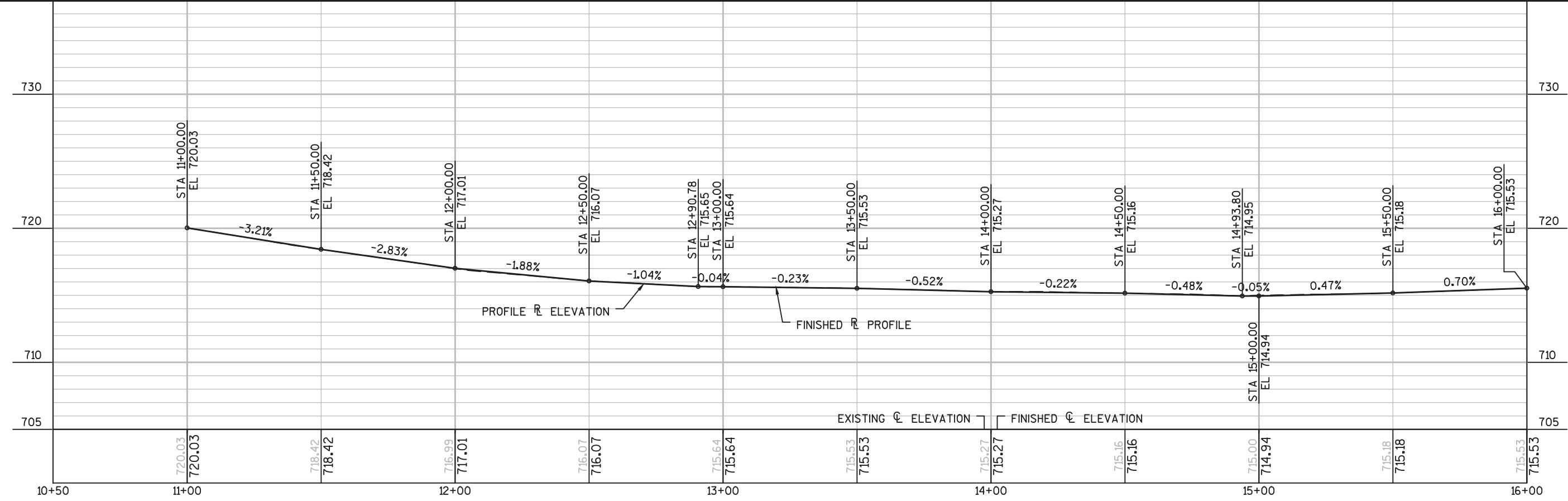
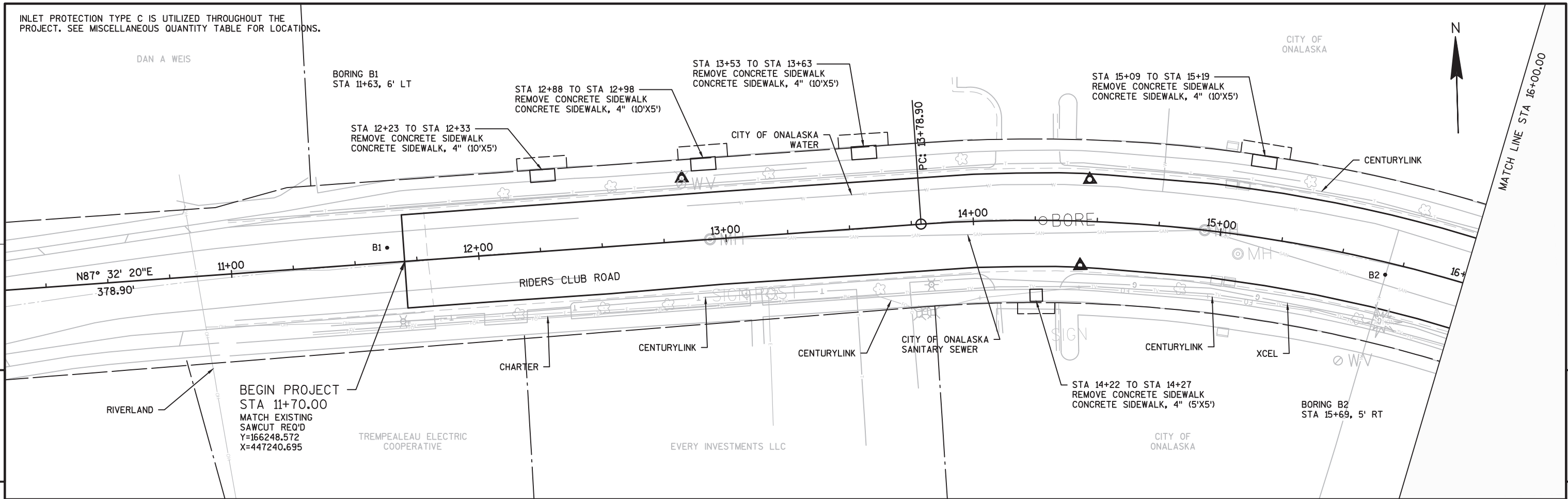
STATE R/W PROJECT NUMBER 5991-02-56

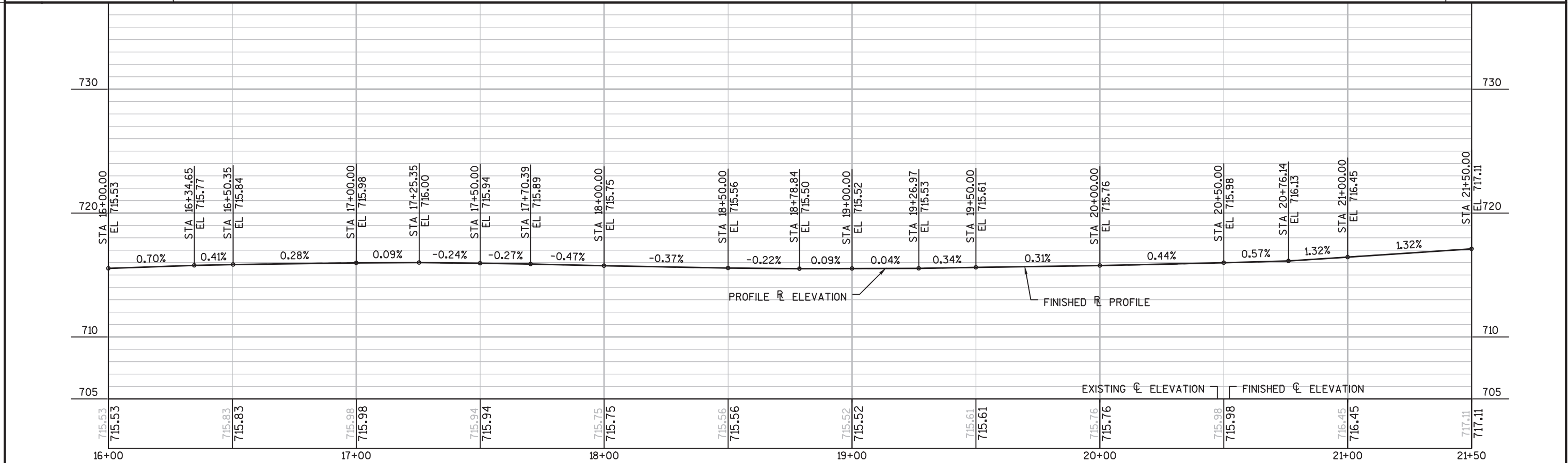
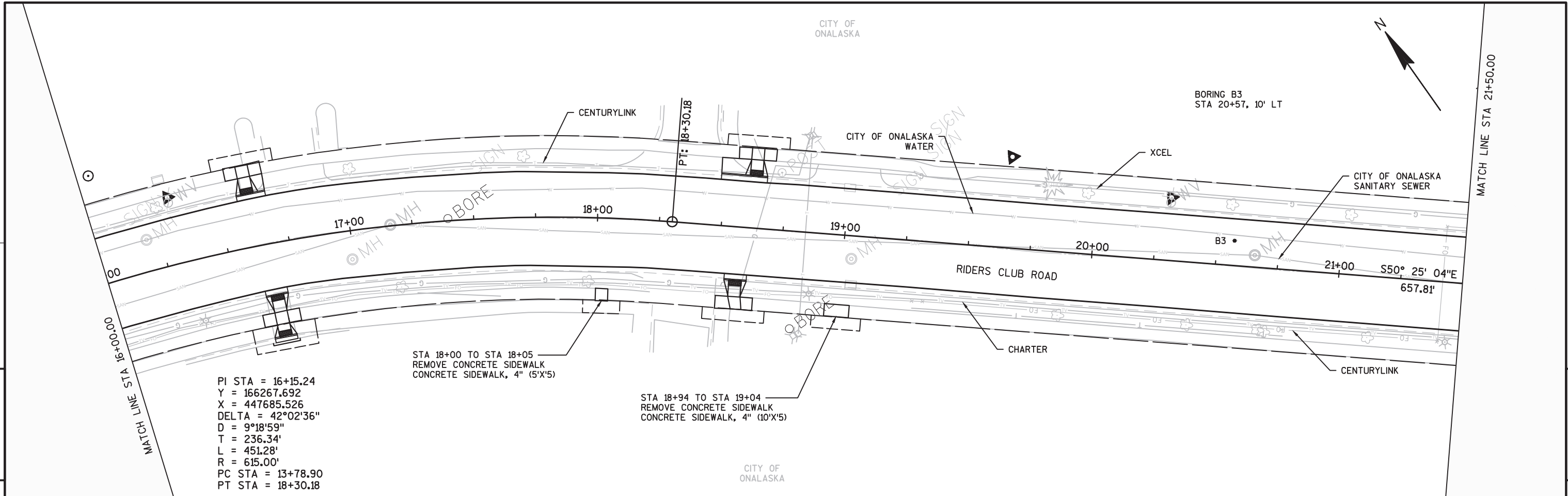
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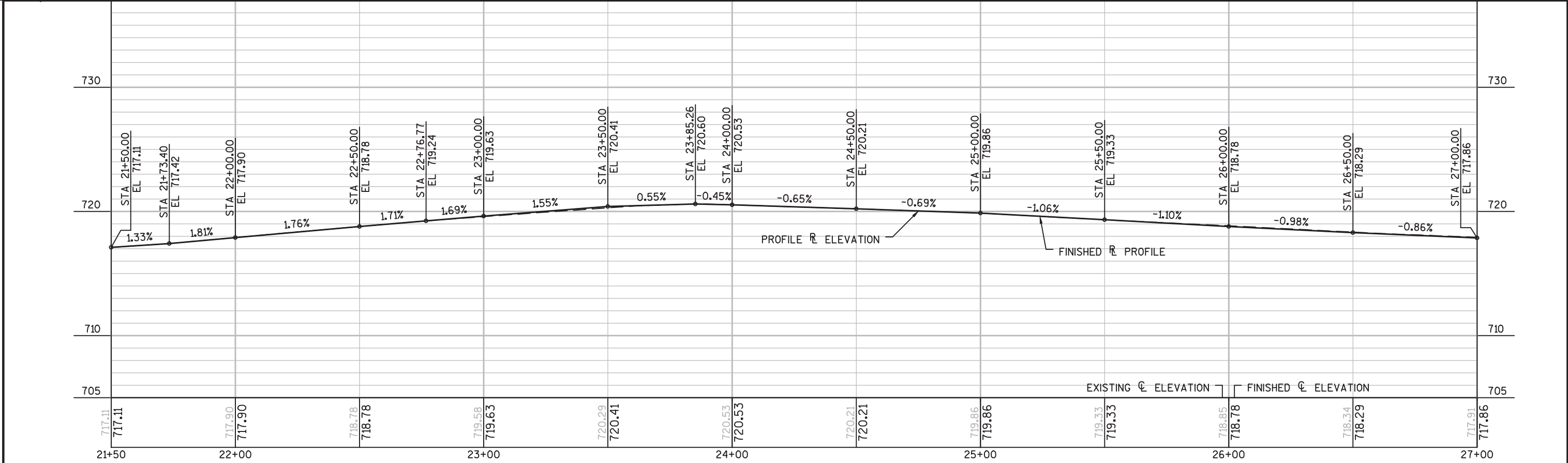
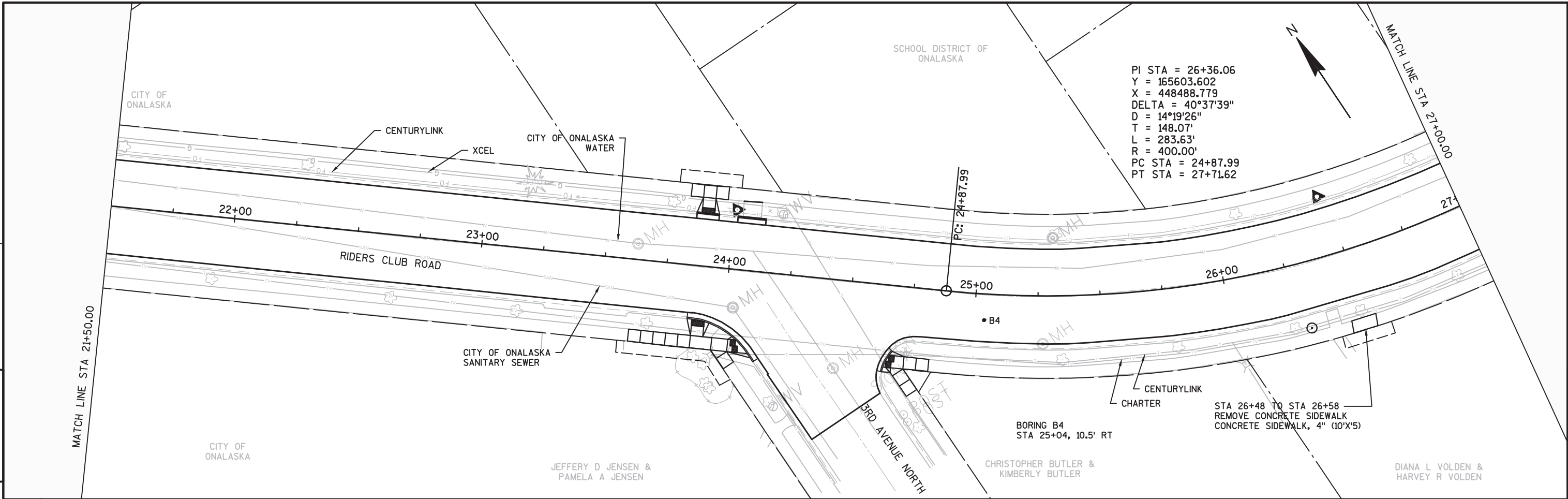
PLAT SHEET 4.07

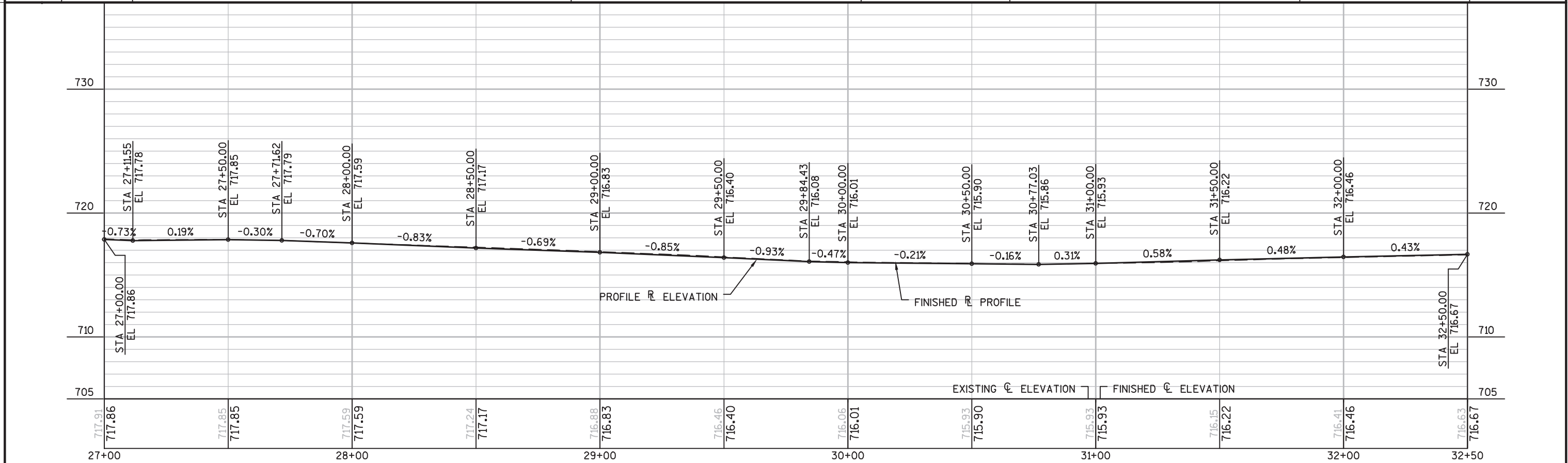
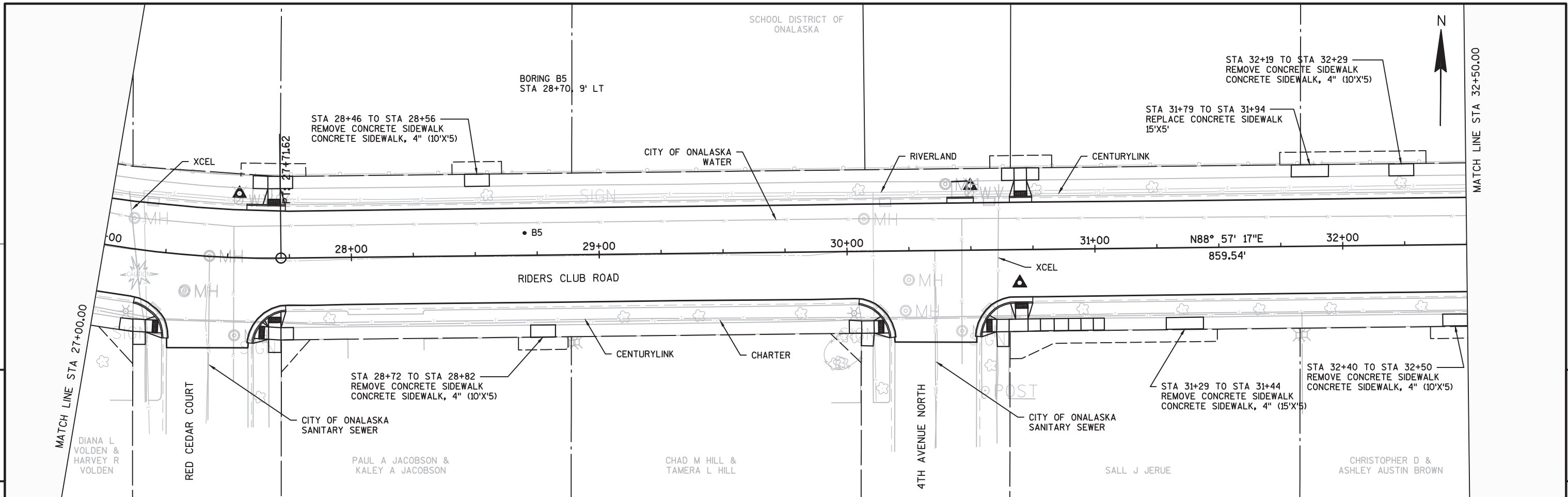
PS&E SHEET 41

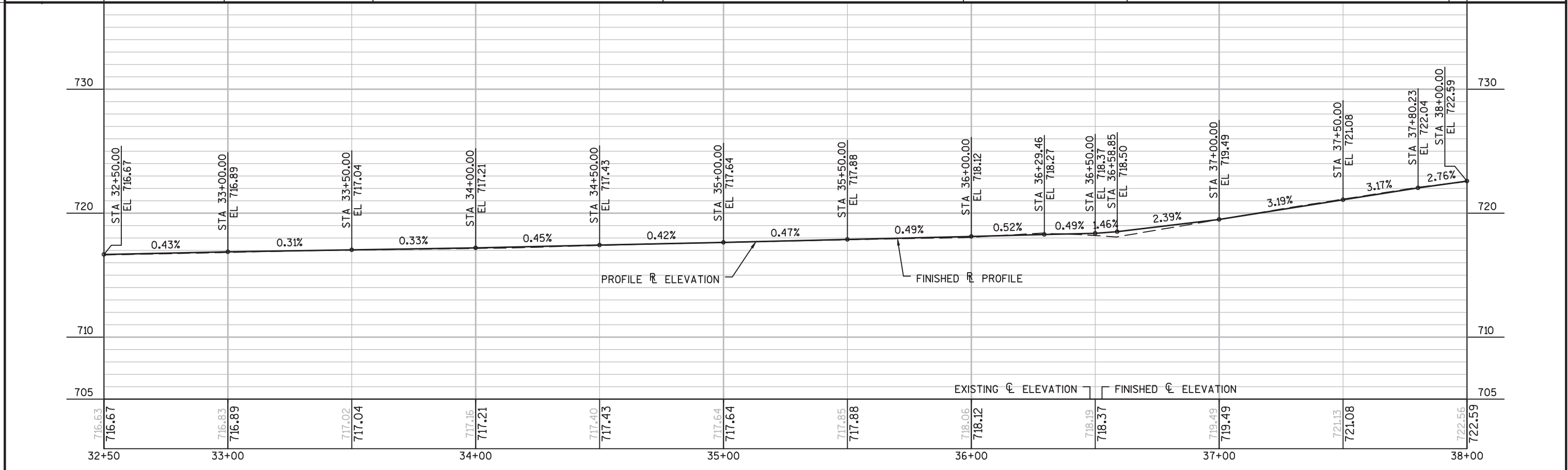
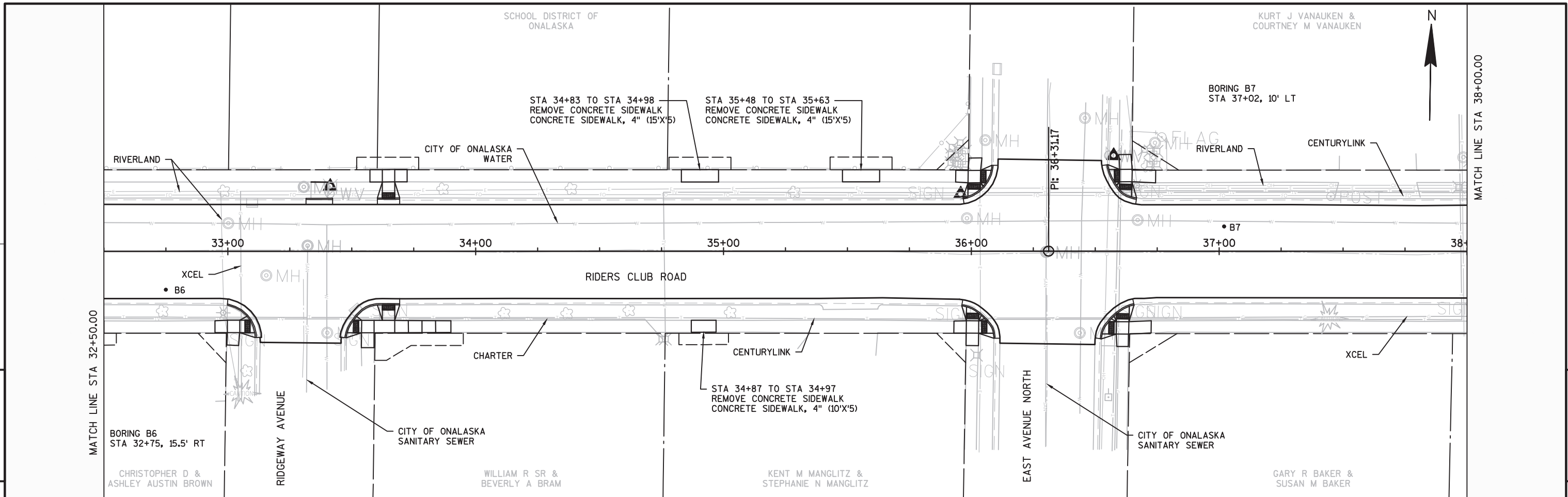
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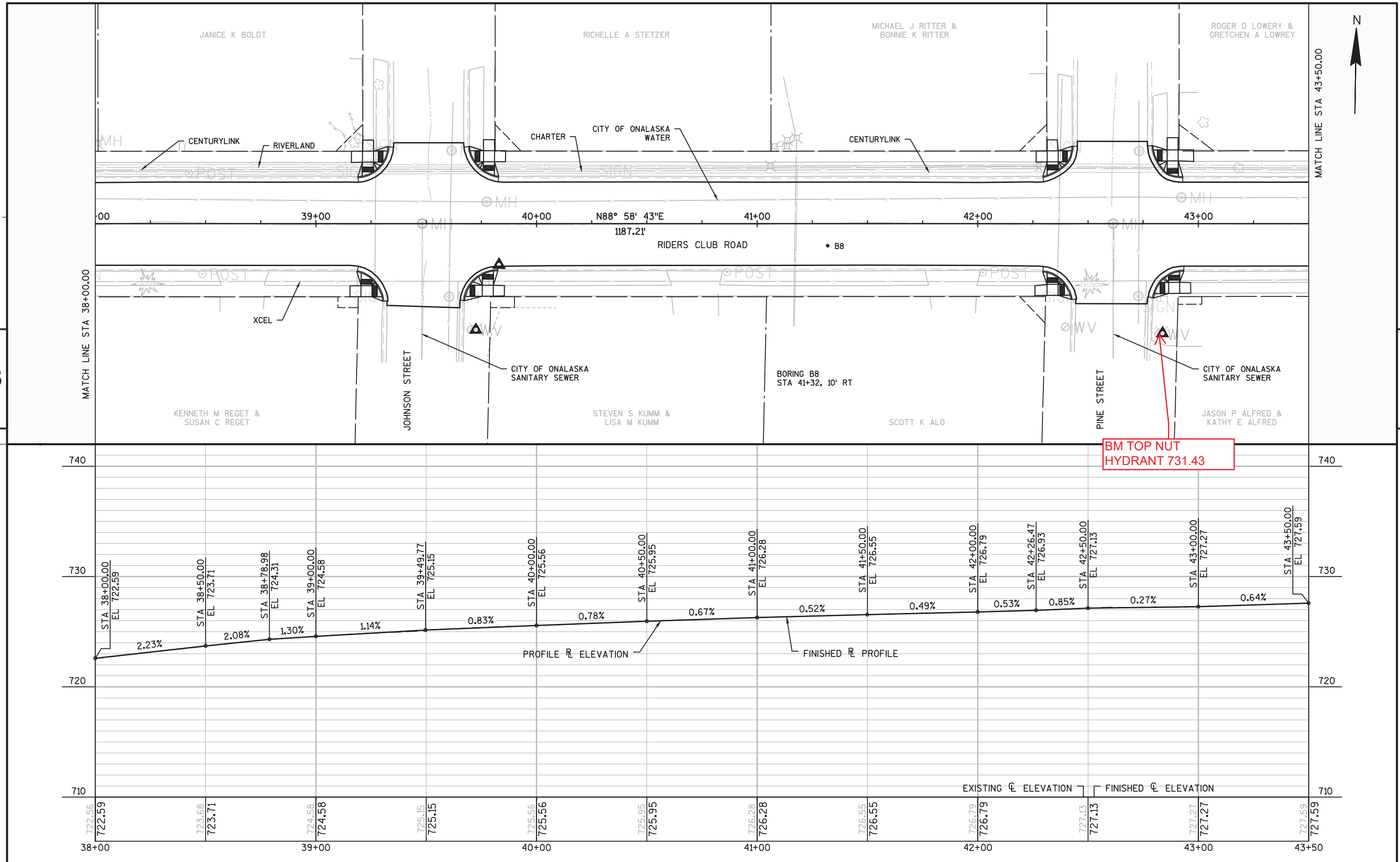


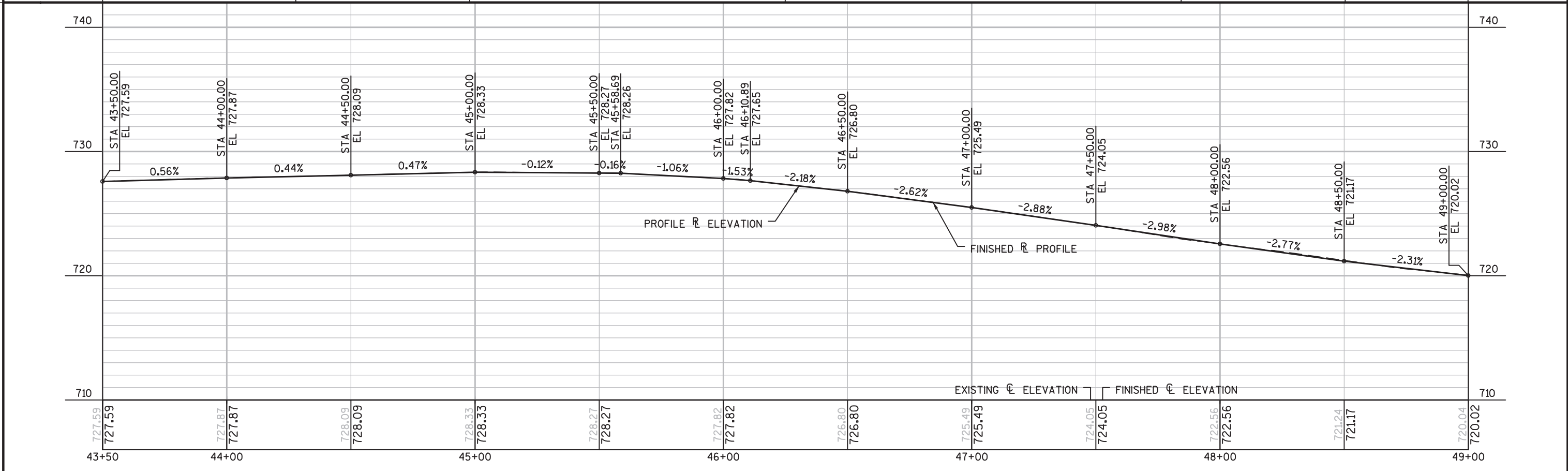
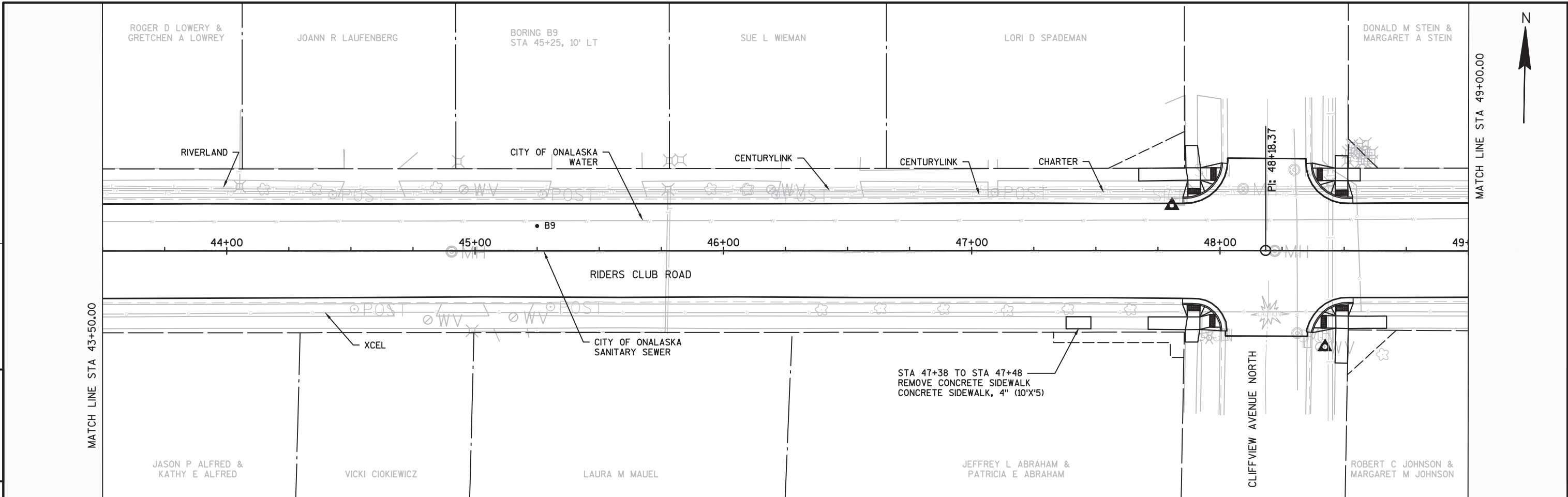


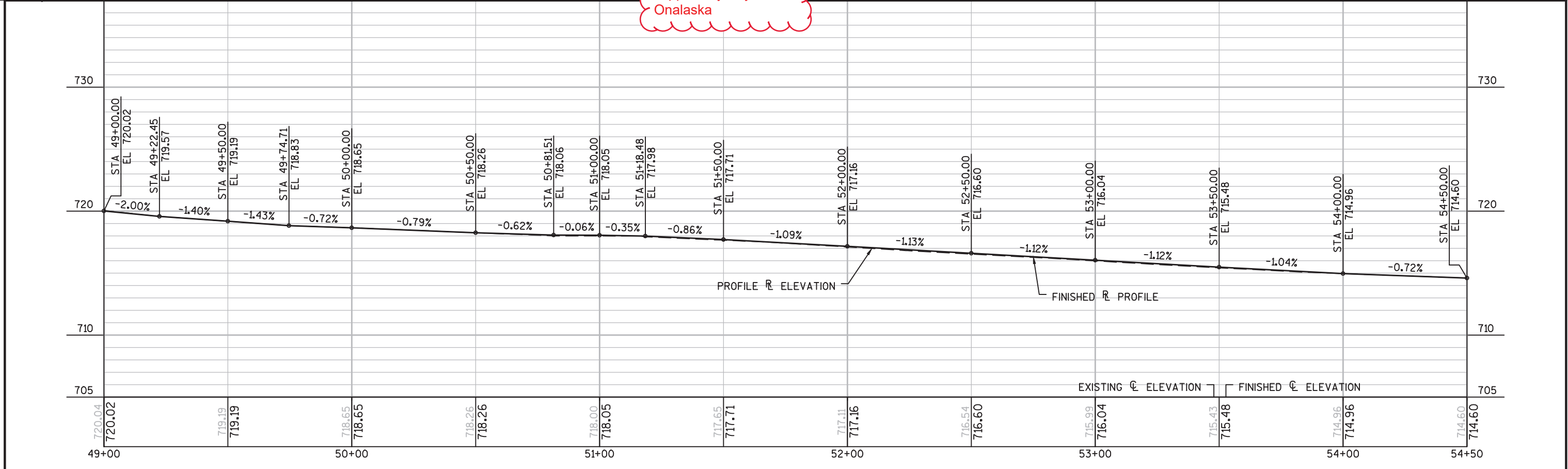
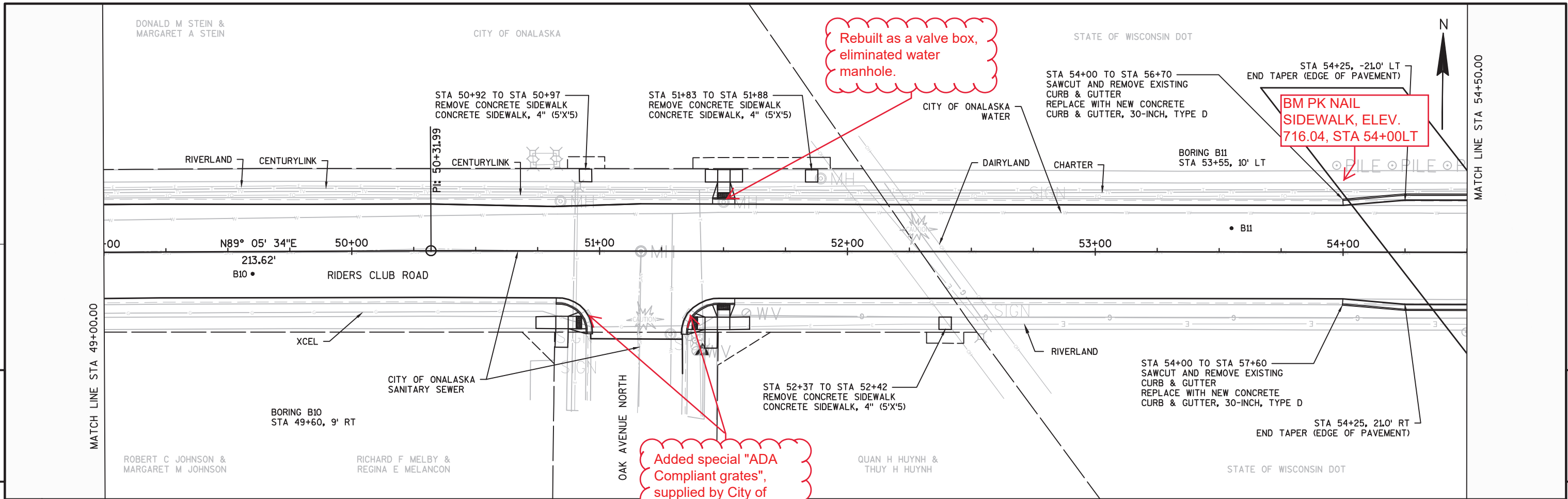




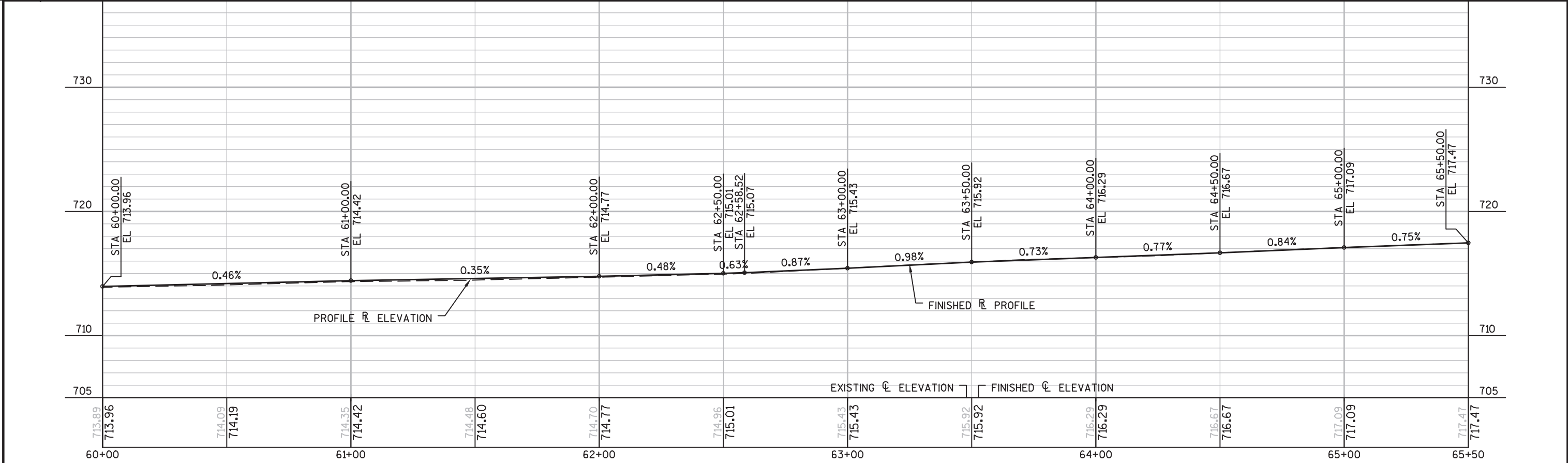
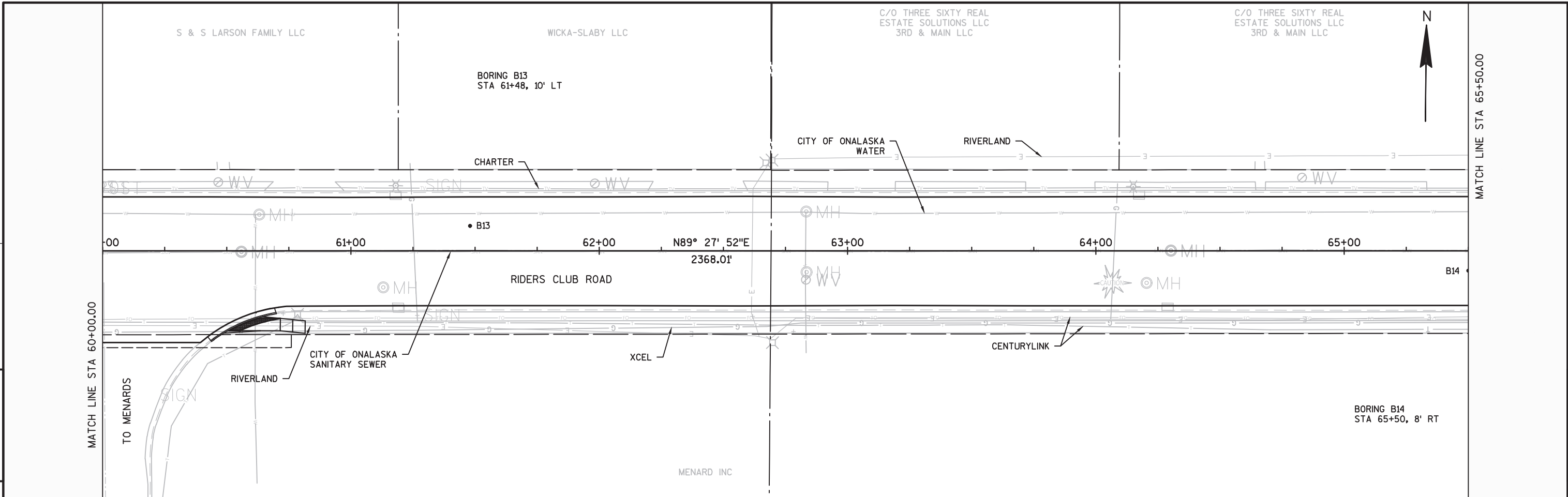


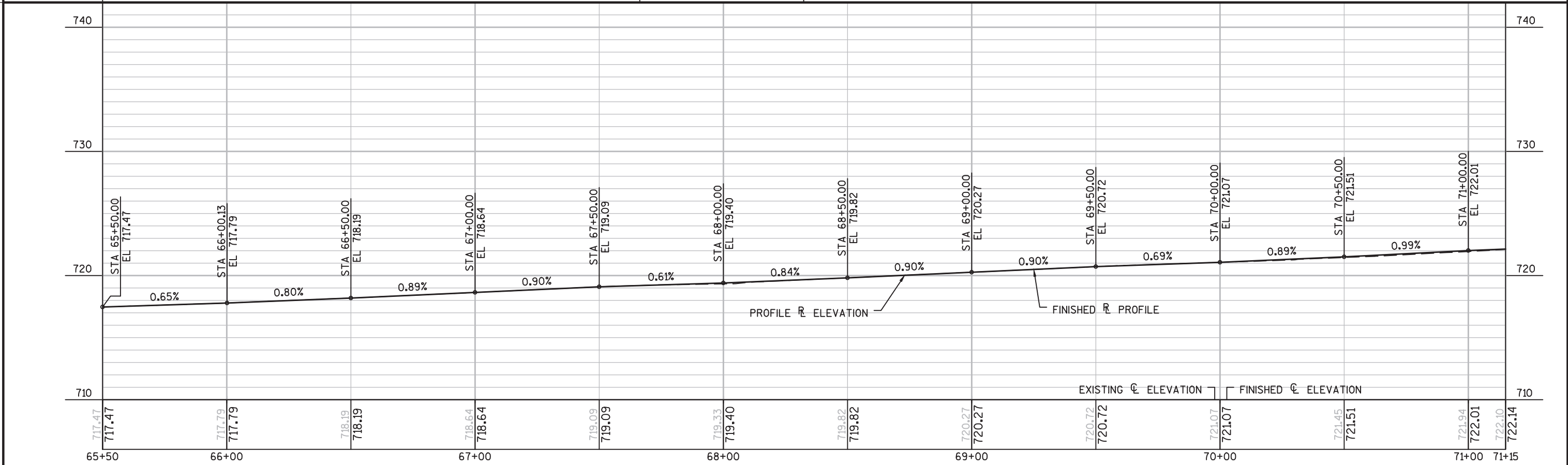
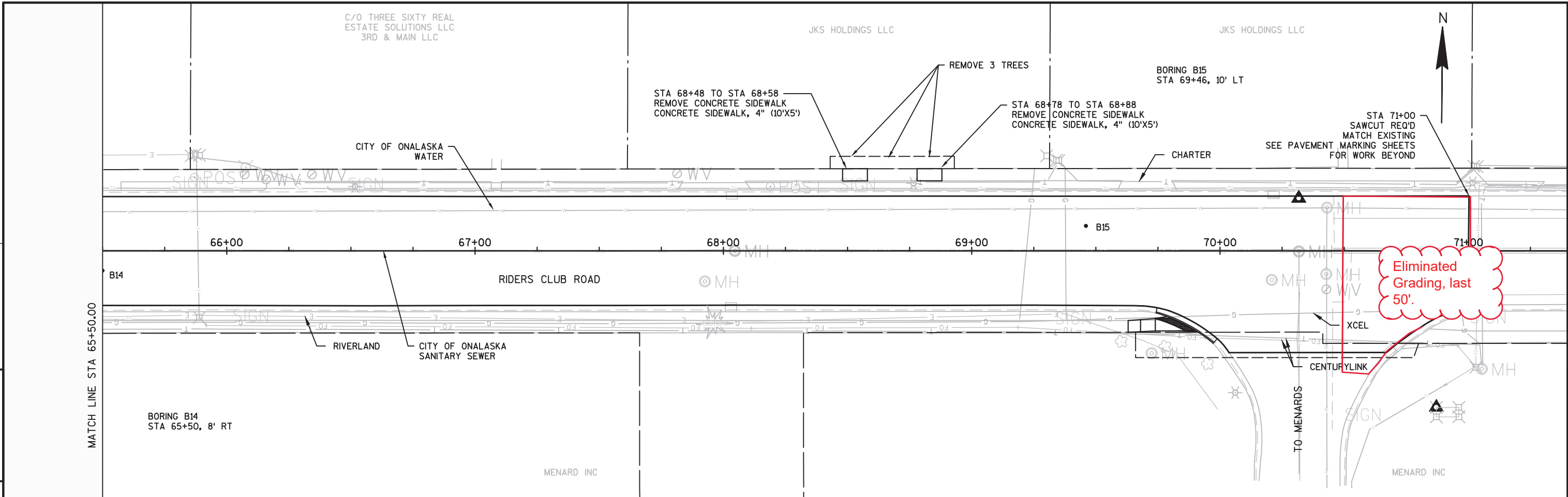






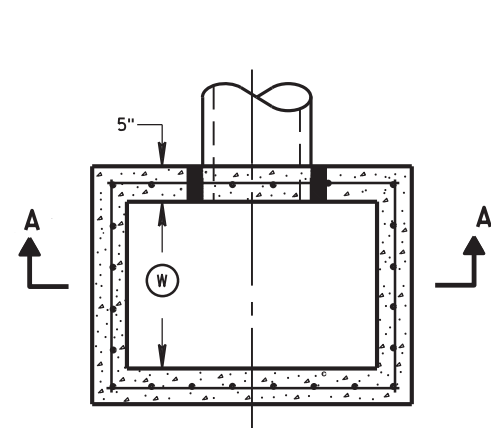




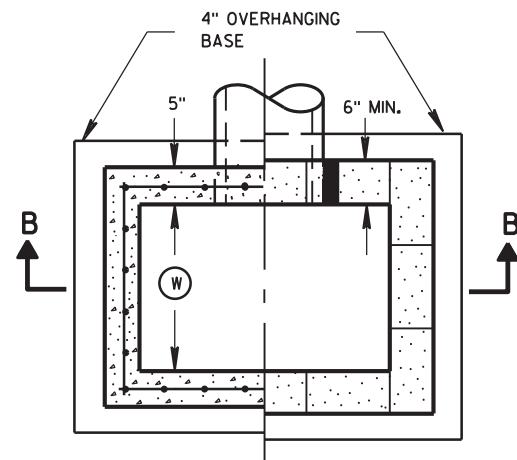


Standard Detail Drawing List

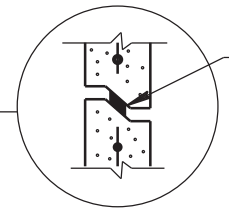
|           |                                                                   |
|-----------|-------------------------------------------------------------------|
| 08C07-02  | INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT                      |
| 08D01-20A | CONCRETE CURB & GUTTER                                            |
| 08D01-20B | CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS              |
| 08D05-19A | CURB RAMPS TYPES 1 AND 1-A                                        |
| 08D05-19B | CURB RAMPS TYPES 2 AND 3                                          |
| 08D05-19C | CURB RAMPS TYPES 4A AND 4A1                                       |
| 08D05-19D | CURB RAMPS TYPE 4B AND 4B1                                        |
| 08D05-19E | CURB RAMPS TYPES 5, 6, 7A, 7B & 8                                 |
| 08D05-19F | CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS           |
| 08D05-19G | CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES       |
| 08D18-01  | DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y                           |
| 08D19-01  | DRIVEWAY AND SIDEWALK RAMPS TYPE Z                                |
| 08E10-02  | INLET PROTECTION TYPE A, B, C AND D                               |
| 15C02-06A | BARRICADES AND SIGNS FOR MAINLINE CLOSURES                        |
| 15C02-06B | BARRICADES AND SIGNS FOR MAINLINE CLOSURES                        |
| 15C03-03  | BARRICADES AND SIGNS FOR SIDEROAD CLOSURES                        |
| 15C05-03  | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS          |
| 15C07-14A | PAVEMENT MARKING SYMBOLS                                          |
| 15C07-14B | PAVEMENT MARKING WORDS                                            |
| 15C07-14C | PAVEMENT MARKING ARROWS                                           |
| 15C07-14E | PAVEMENT MARKING FOR BIKE LANES                                   |
| 15C08-18A | LONGITUDINAL MARKING (MAINLINE)                                   |
| 15C08-18B | PAVEMENT MARKING (TURN LANES)                                     |
| 15C12-06  | TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION          |
| 15C19-04A | MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY        |
| 15C29-05A | BICYCLE LANE MARKING                                              |
| 15C29-05B | PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS                   |
| 15C33-02  | STOP LINE AND CROSSWALK PAVEMENT MARKING                          |
| 15C35-01A | PAVEMENT MARKING (INTERSECTIONS)                                  |
| 15D30-03A | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION                         |
| 15D30-03B | TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION |
| 15D30-03C | TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION                         |



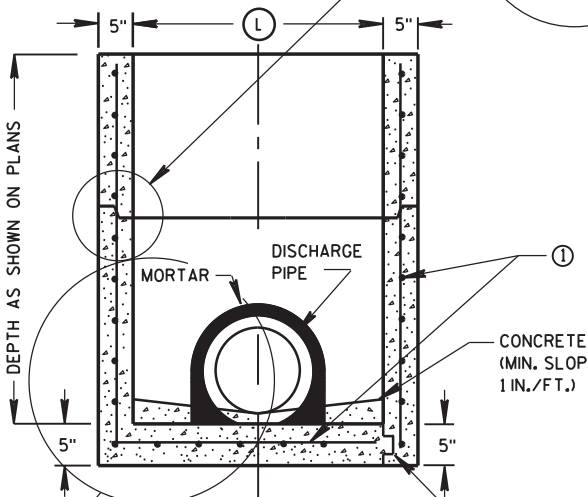
PLAN VIEW



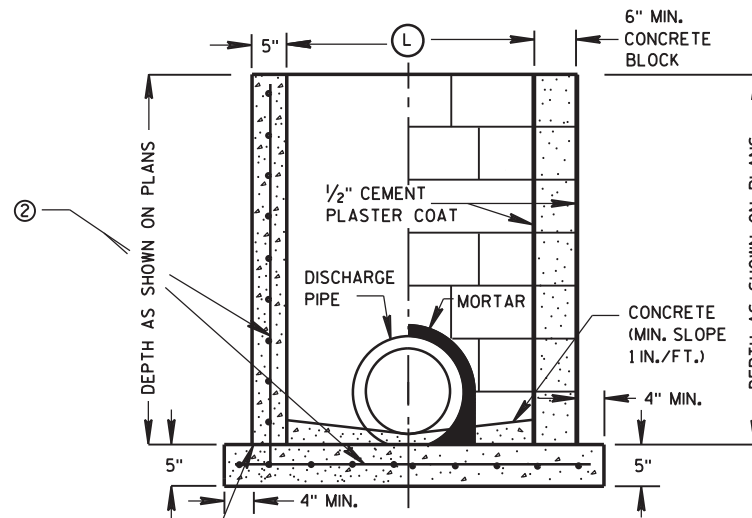
PLAN VIEW



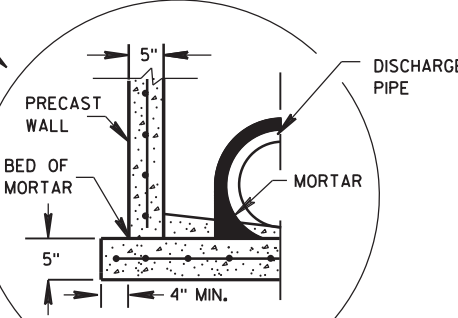
RISER JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

### GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

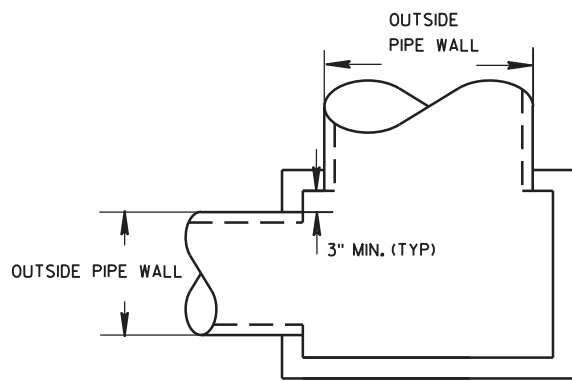
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

### INLET COVER MATRIX

| INLET SIZE |              | INLET COVER TYPE | ALL A'S | ALL B'S | BW | F | ALL H'S | S | T | V | WM |
|------------|--------------|------------------|---------|---------|----|---|---------|---|---|---|----|
|            | WIDTH ① (FT) | LENGTH ② (FT)    |         |         |    |   |         |   |   |   |    |
| 2X2-FT     | 2            | 2                | X       | X       |    |   |         | X |   | X |    |
| 2X2.5-FT   | 2            | 2.5              |         |         | X  |   |         | X | X | X | X  |
| 2X3-FT     | 2            | 3                |         |         |    |   | X       |   |   |   |    |
| 2.5X3-FT   | 2.5          | 3                |         |         |    | X |         |   |   |   |    |

### PIPE MATRIX

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



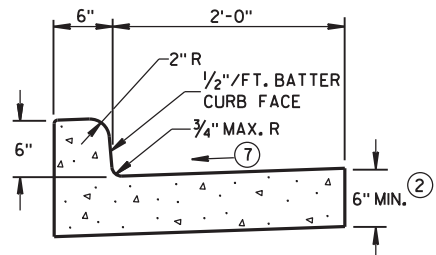
DETAIL "A"

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

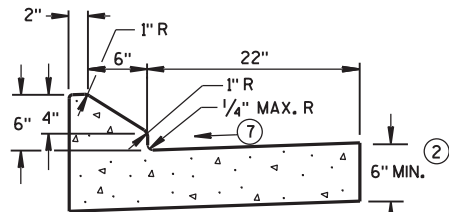
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
Sept., 2016 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS DIVISION  
FHWA UNIT SUPERVISOR

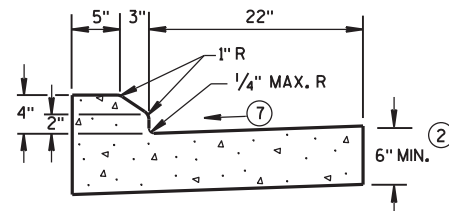
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT



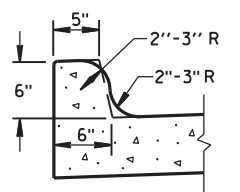
TYPES A<sup>①</sup> & D



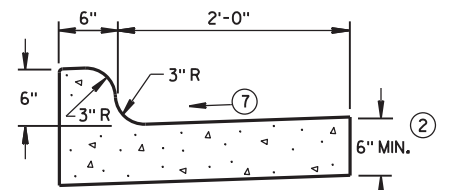
6" SLOPED CURB TYPES G<sup>①</sup> & J



4" SLOPED CURB TYPES G<sup>①</sup> & J

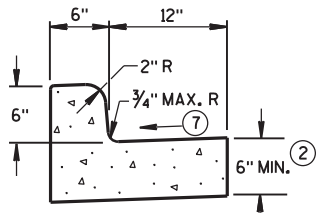


TYPES K<sup>①</sup> & L  
(OPTIONAL CURB SHAPE)



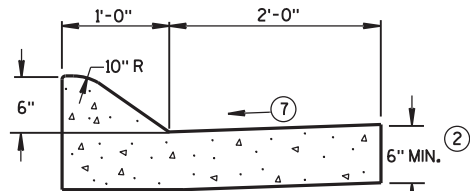
TYPES K<sup>①</sup> & L

CONCRETE CURB & GUTTER 30"

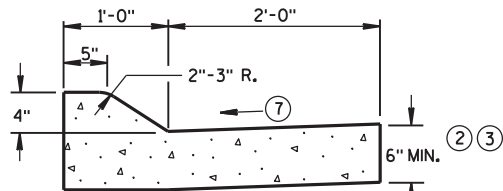


TYPES A<sup>①</sup> & D

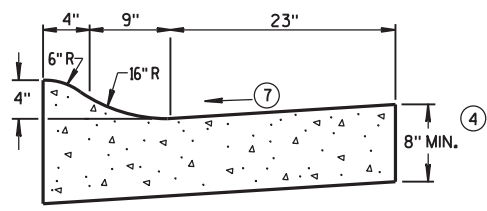
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A<sup>①</sup> & D

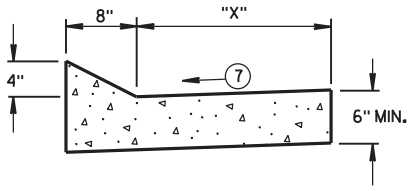


4" SLOPED CURB TYPES A<sup>①</sup> & D



4" SLOPED CURB TYPES R<sup>①</sup> & T<sup>⑤</sup>

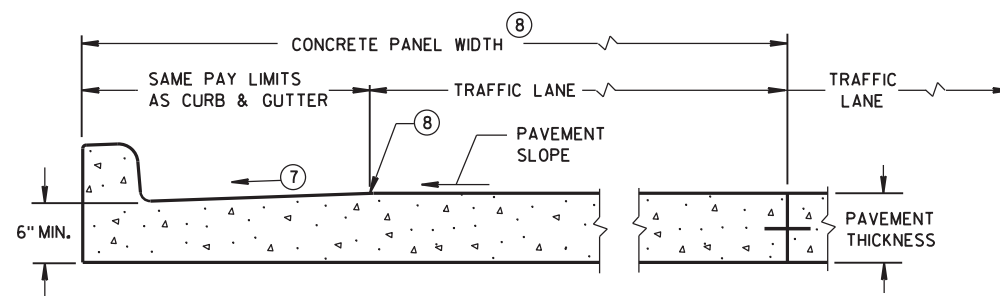
CONCRETE CURB & GUTTER 36"



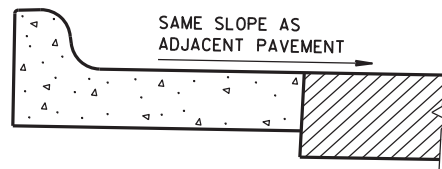
TYPES TBT & TBTT<sup>①</sup>

CONCRETE CURB & GUTTER

| TBT & TBTT | "X" |
|------------|-----|
| 30"        | 22" |
| 36"        | 28" |



PARTIAL SECTION OF PAVEMENT  
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER<sup>⑥</sup>  
(TYPICAL FOR ALL CURB & GUTTER TYPES)

## GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

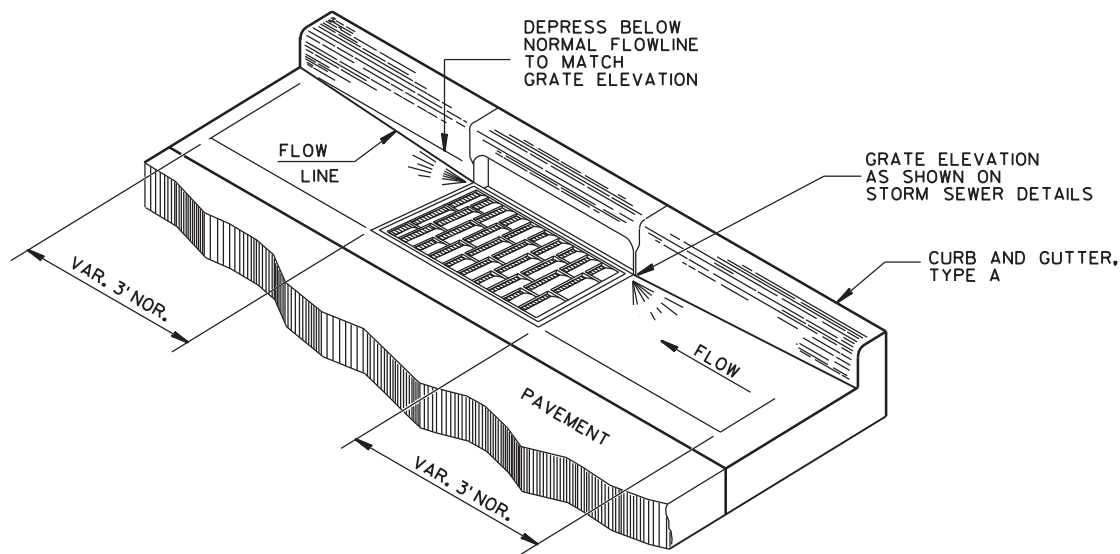
## PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

| PAVEMENT THICKNESS | MAXIMUM PANEL WIDTH |
|--------------------|---------------------|
| LESS THAN 10"      | 12'                 |
| 10" & ABOVE        | 15'                 |

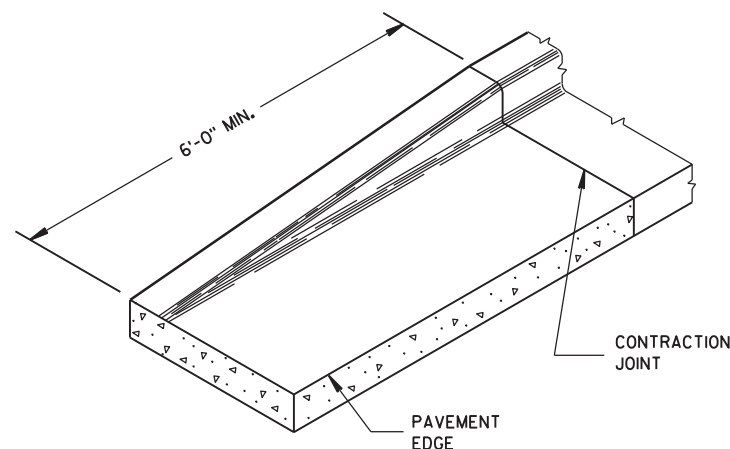
\* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

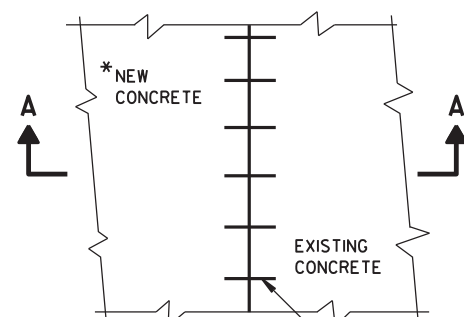
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



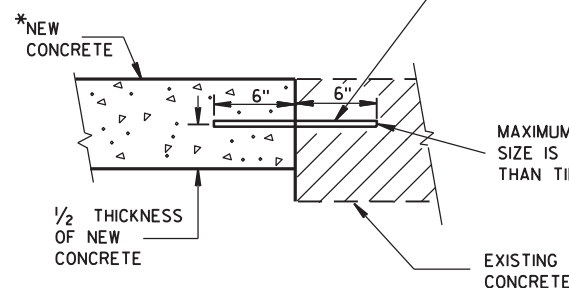
DETAIL OF CURB AND GUTTER AT INLETS  
(TYPE H INLET COVER SHOWN)



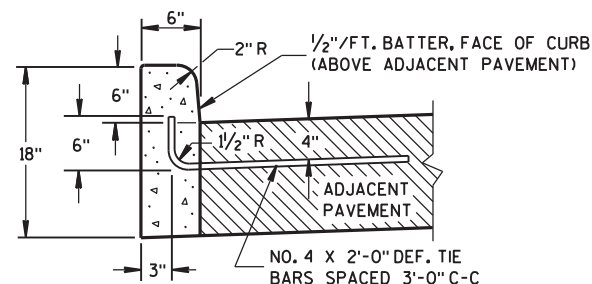
END SECTION CURB & GUTTER



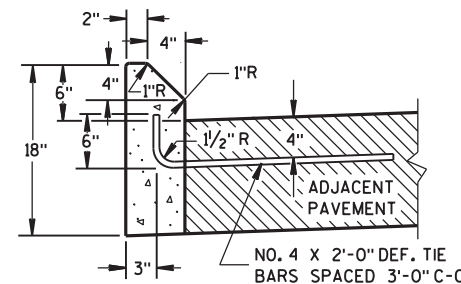
PLAN VIEW



SECTION A-A  
TIE BARS DRILLED  
INTO EXISTING PAVEMENT



TYPES A<sup>①</sup> & D



TYPES G<sup>①</sup> & J

GENERAL NOTES

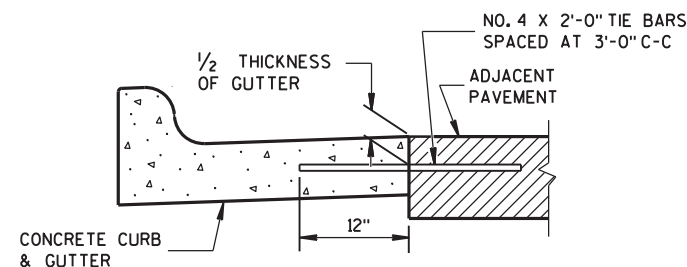
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

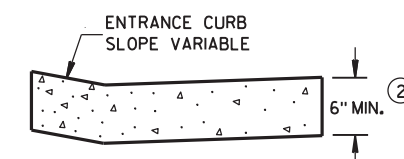
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑨ REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

CONCRETE CURB

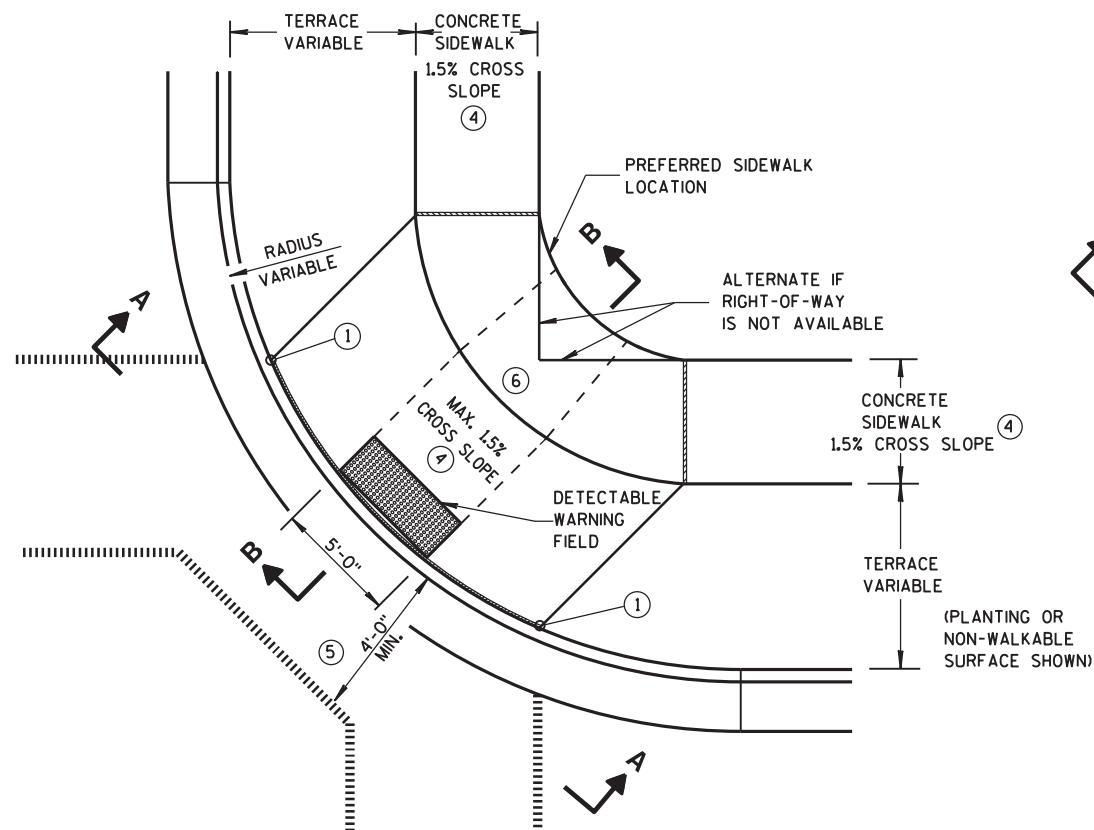


TYPICAL TIE BAR LOCATION<sup>①</sup>

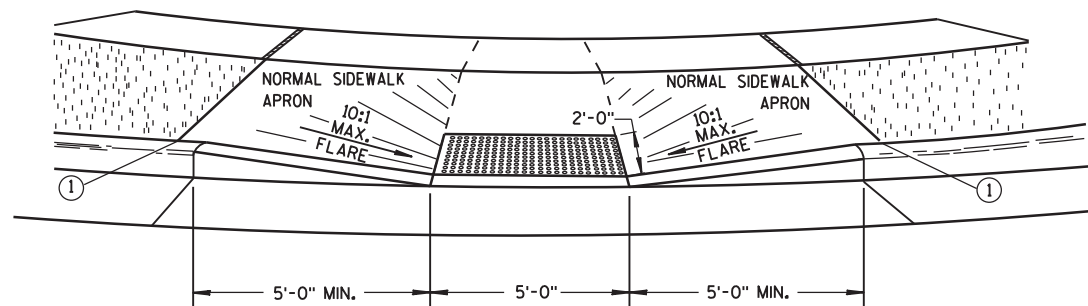


DRIVEWAY ENTRANCE CURB<sup>⑨</sup>  
(WHEN DIRECTED BY THE ENGINEER)

| CONCRETE CURB, TIES<br>AND<br>CURB AND GUTTER APPLICATIONS |                                                              |     |  |
|------------------------------------------------------------|--------------------------------------------------------------|-----|--|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION         |                                                              |     |  |
| APPROVED<br>June, 2017<br>DATE                             | /S/ Rodney Taylor<br>ROADWAY STANDARDS 56<br>UNIT SUPERVISOR | ENT |  |
| FHWA                                                       |                                                              |     |  |

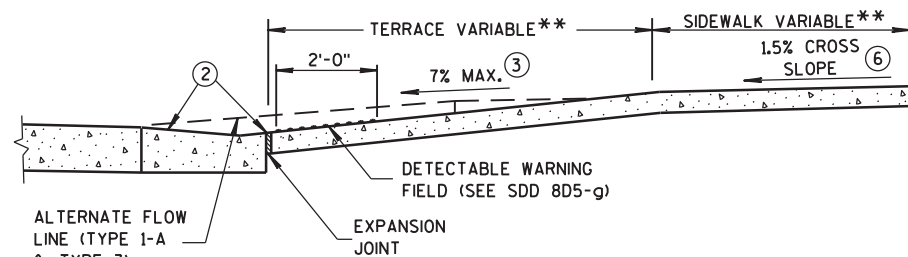


**PLAN VIEW  
TYPE 1 RAMP**  
(CENTER OF CORNER RADIUS)

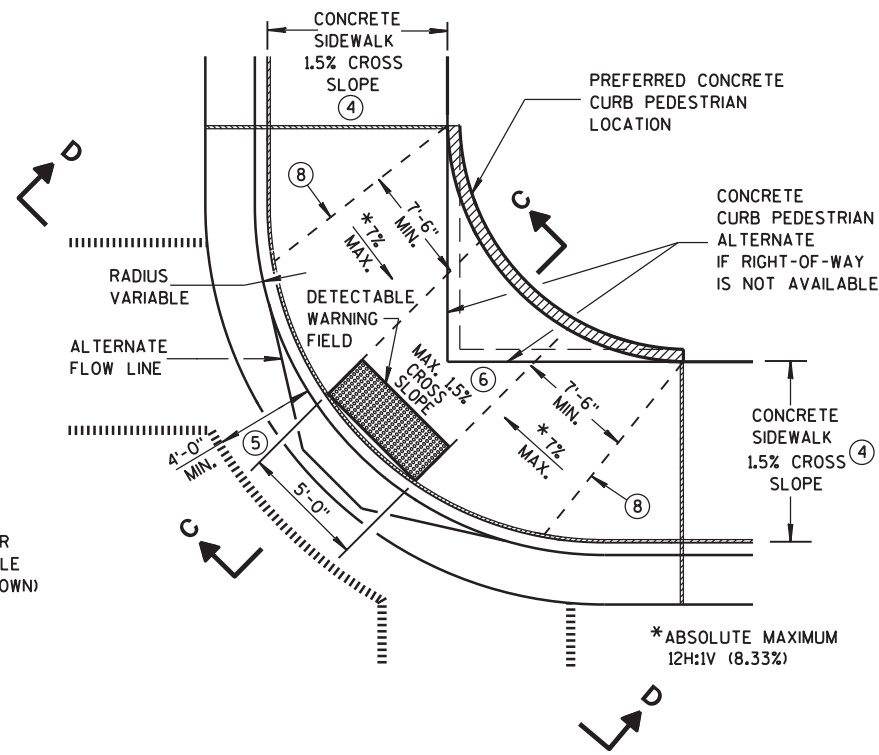


**VIEW A-A**

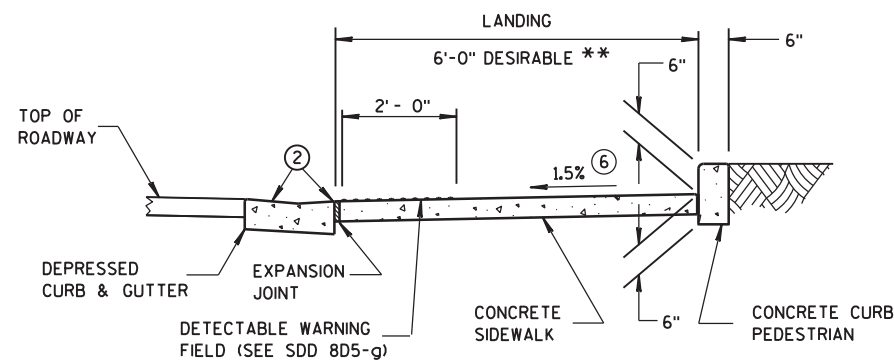
\*\* WIDTH SHOWN ELSEWHERE  
IN THE PLANS



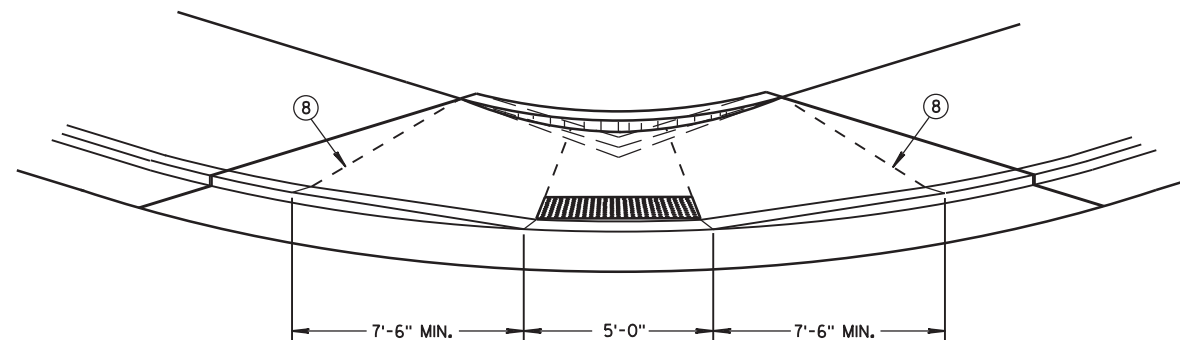
**SECTION B-B**



**PLAN VIEW  
TYPE 1-A RAMP**  
(NO TERRACE)



**SECTION C-C**



**VIEW D-D**

## GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

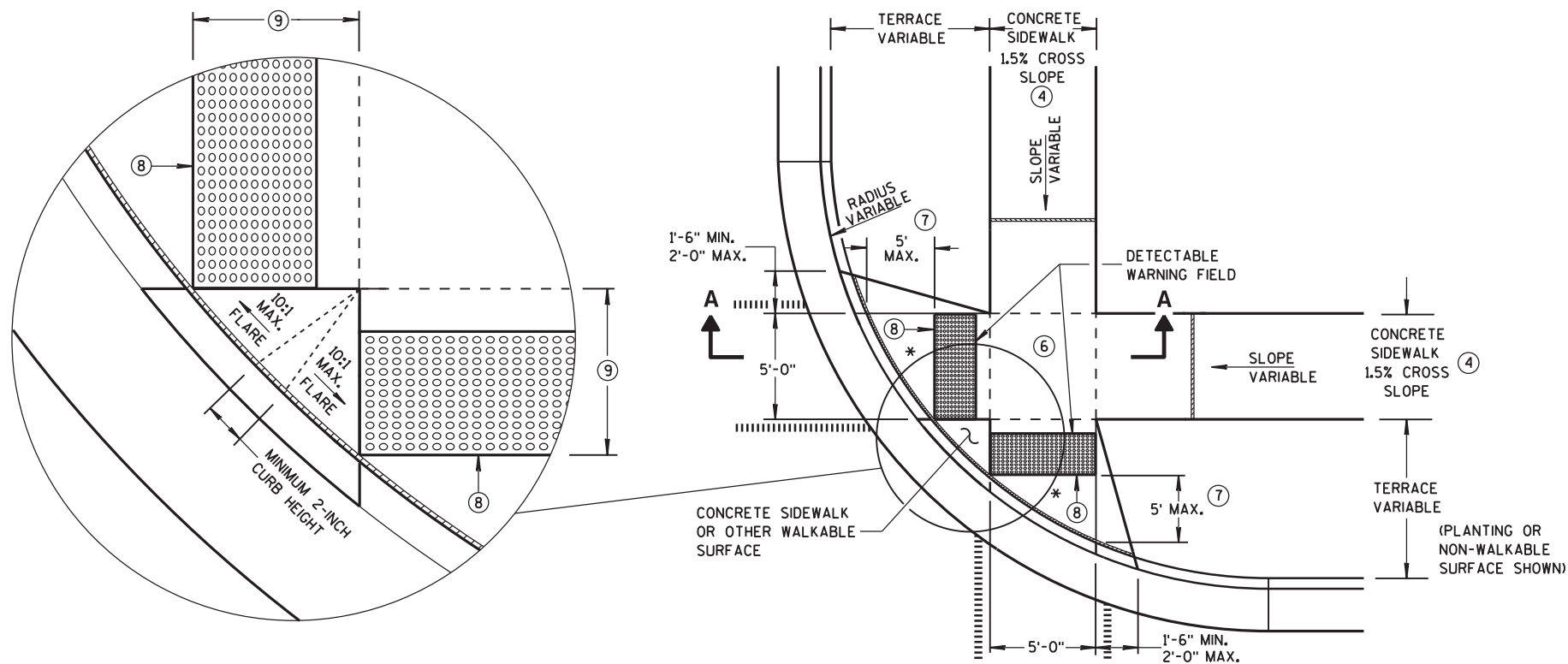
- ① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- ③ ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- ④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ⑤ PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.
- ⑥ PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
- ⑧ PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

## LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- - - - CONTRACTION JOINT FIELD LOCATED
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

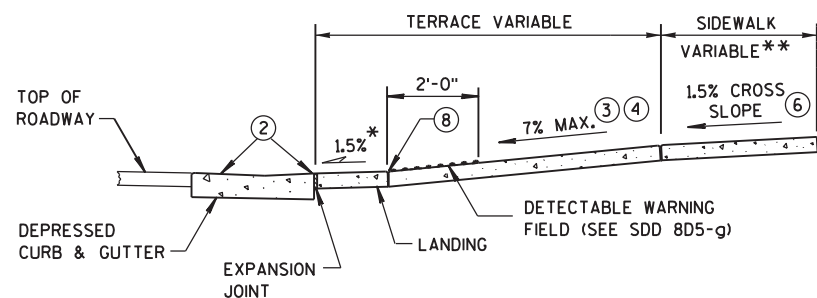
**CURB RAMPS  
TYPES 1 AND 1-A**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



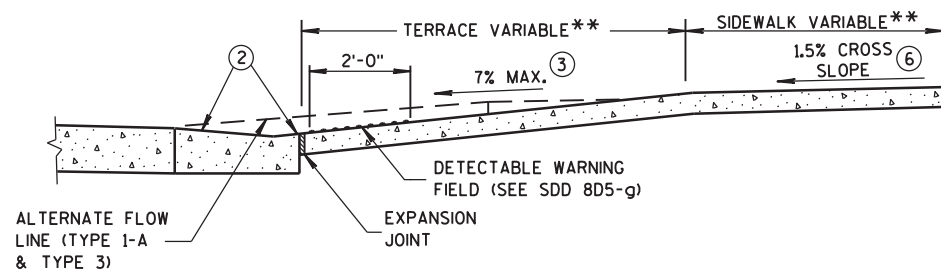
**PLAN VIEW  
TYPE 2 RAMP**  
(ON LINE WITH SIDEWALK)

\* MAXIMUM 2.0% SLOPE  
IN ALL DIRECTIONS IN  
FRONT OF GRADE BREAK



**SECTION A-A**

\*\* WIDTH SHOWN ELSEWHERE  
IN THE PLANS



**SECTION B-B**

## GENERAL NOTES

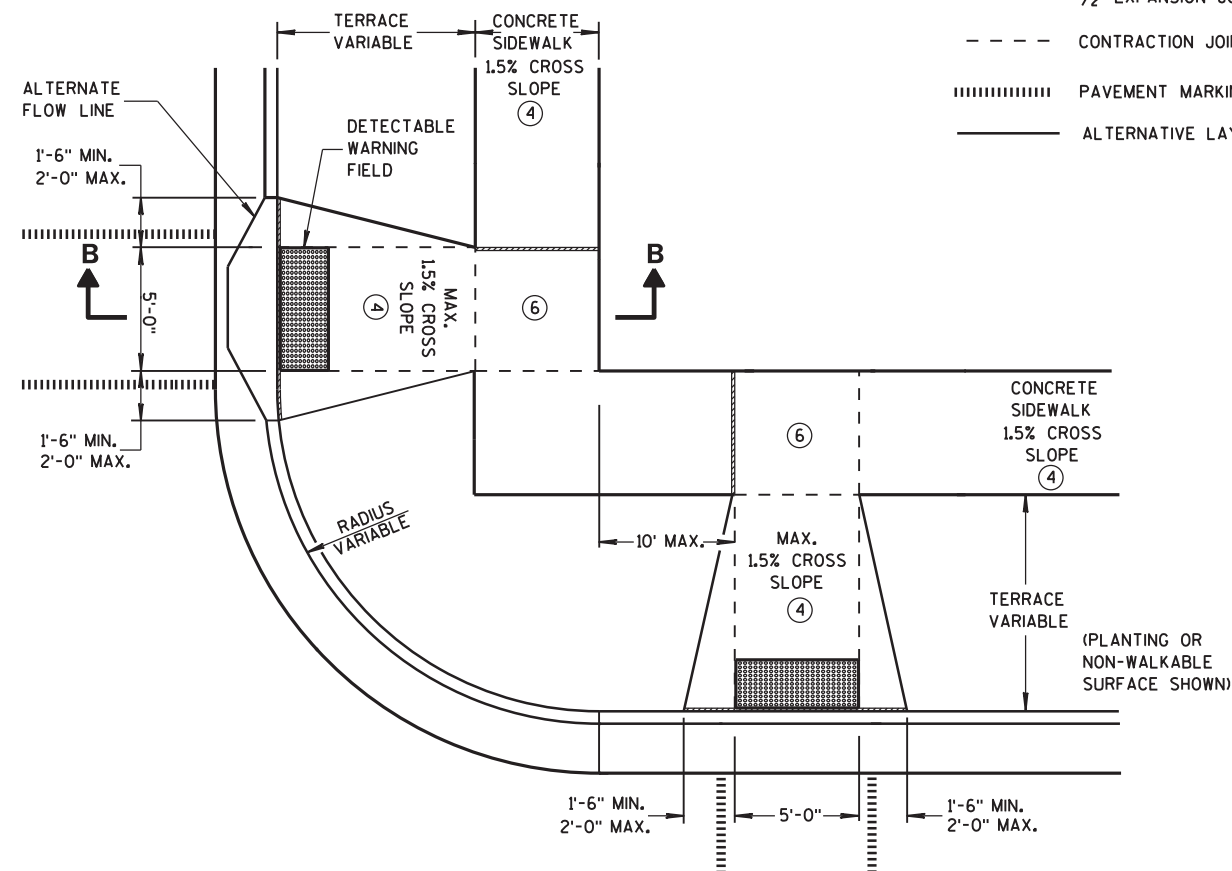
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- ③ ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- ④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ⑥ PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
- ⑦ WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- ⑧ PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- ⑨ WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

## LEGEND

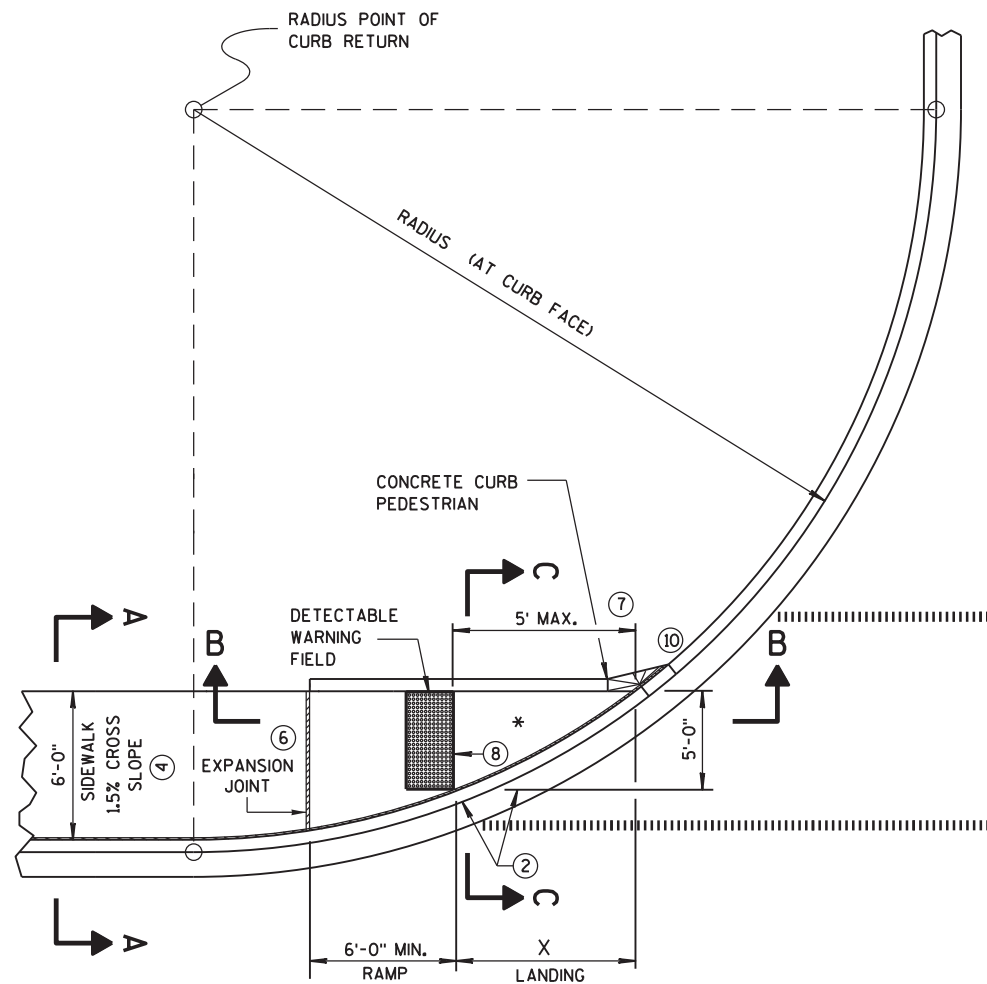
- ===== 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



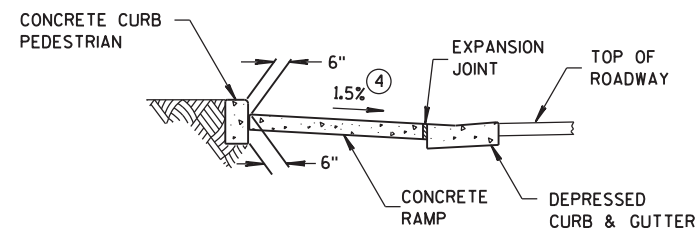
**PLAN VIEW  
TYPE 3 RAMP**  
(OUTSIDE OF CROSSWALK AREA)

**CURB RAMPS  
TYPES 2 AND 3**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

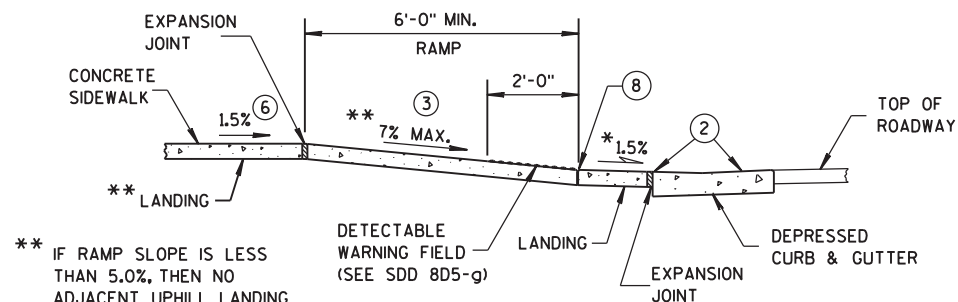


**CURB RAMP TYPE 4A**  
PLAN VIEW



**SECTION C-C FOR TYPE 4A**

\* MAXIMUM 2.0% SLOPE  
IN ALL DIRECTIONS IN  
FRONT OF GRADE BREAK

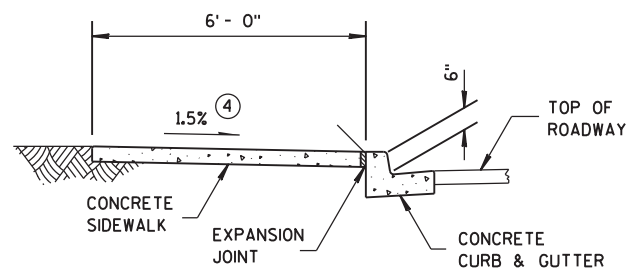


**SECTION B-B FOR TYPE 4A**

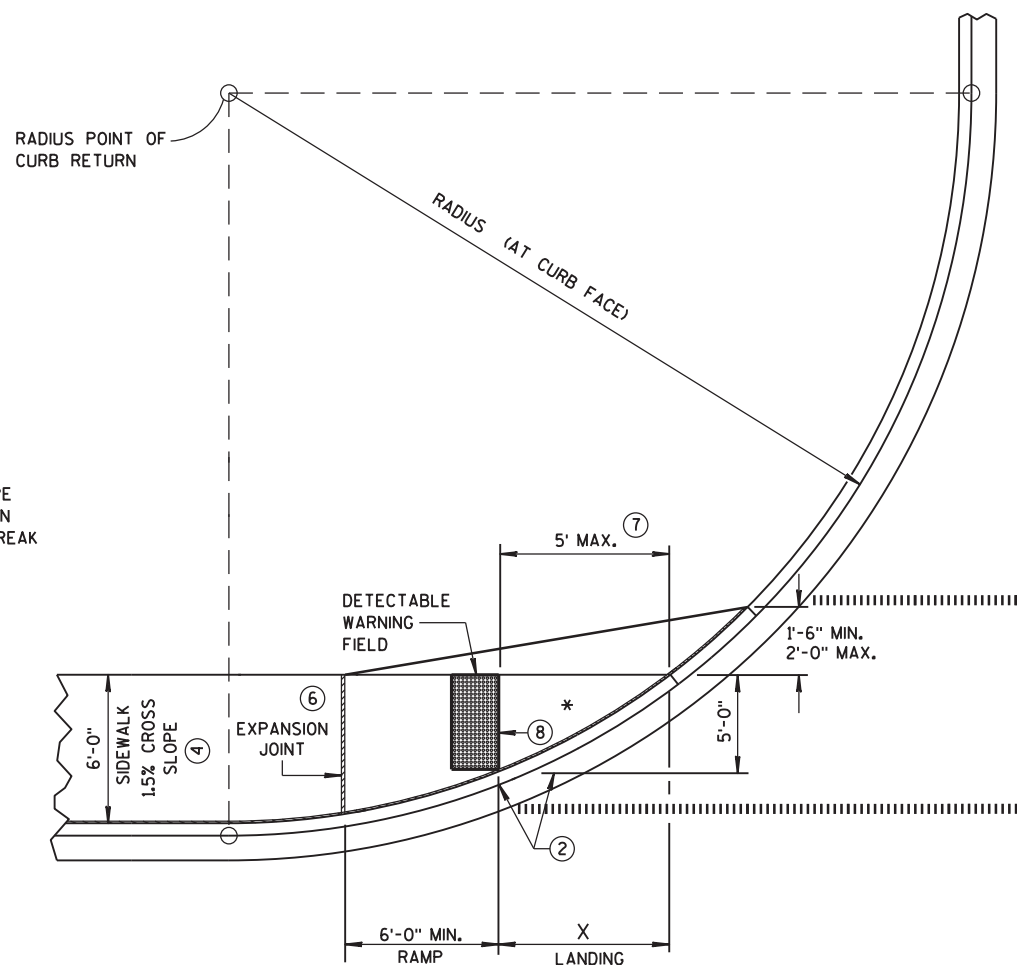
\*\* IF RAMP SLOPE IS LESS  
THAN 5.0%, THEN NO  
ADJACENT UPHILL LANDING  
IS REQUIRED

| RADIUS<br>(AT CURB FACE) | X      |
|--------------------------|--------|
| 10 FEET                  | 4'-7"  |
| 15 FEET                  | 6'-5½" |

INTERMEDIATE RADII CAN BE INTERPOLATED



**SECTION A-A FOR TYPE 4A**



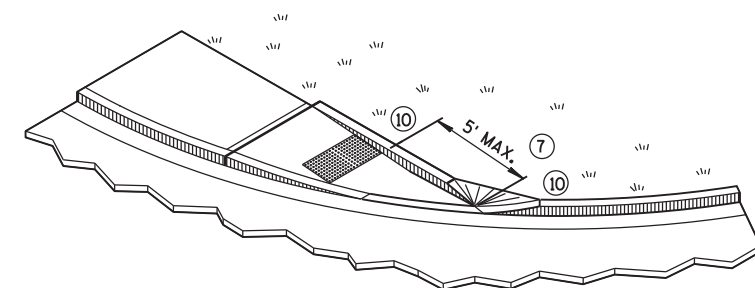
**CURB RAMP TYPE 4A1**  
PLAN VIEW

## GENERAL NOTES

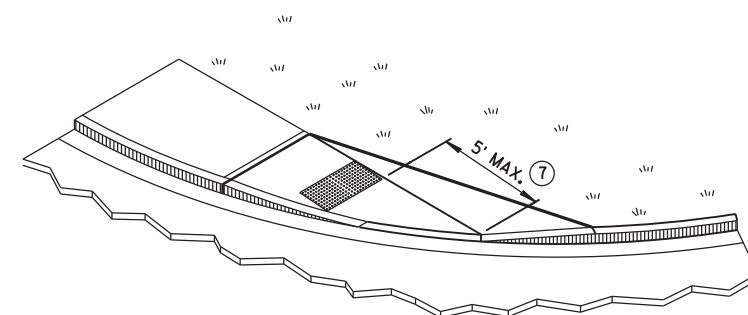
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- ③ ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- ④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ⑥ PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
- ⑦ WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- ⑧ PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- ⑩ INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



**ISOMETRIC VIEW FOR TYPE 4A**



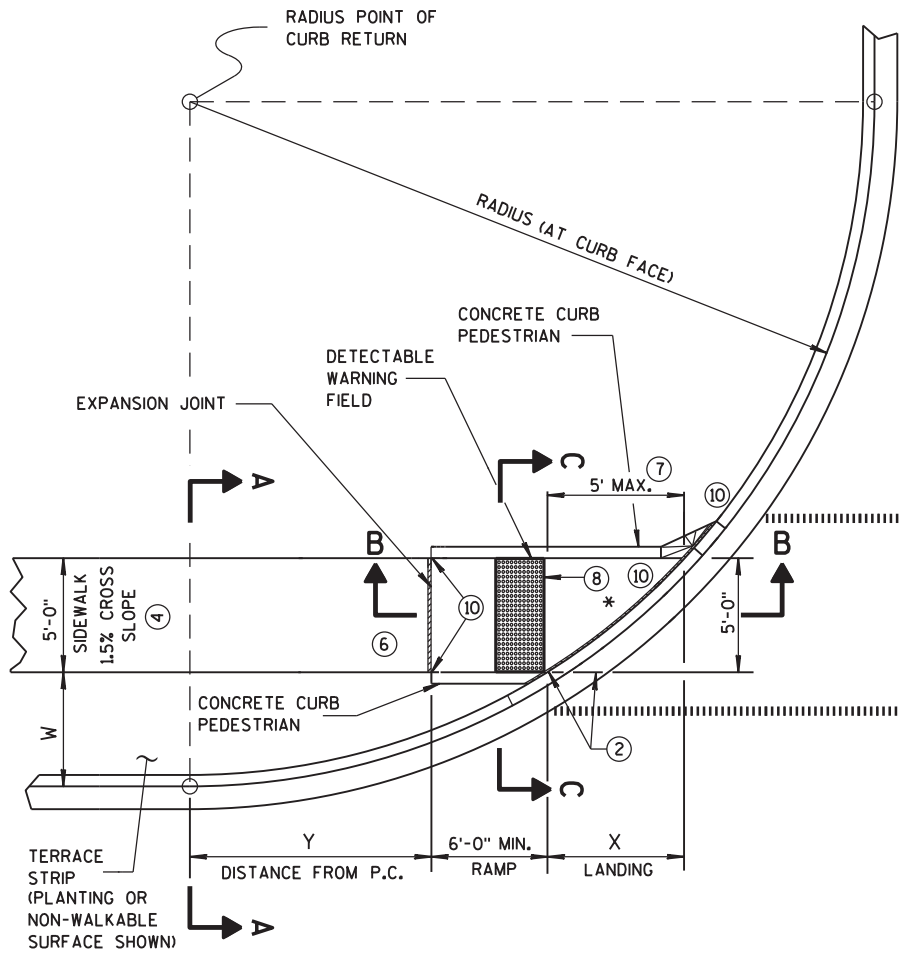
**ISOMETRIC VIEW FOR TYPE 4A1**

## LEGEND

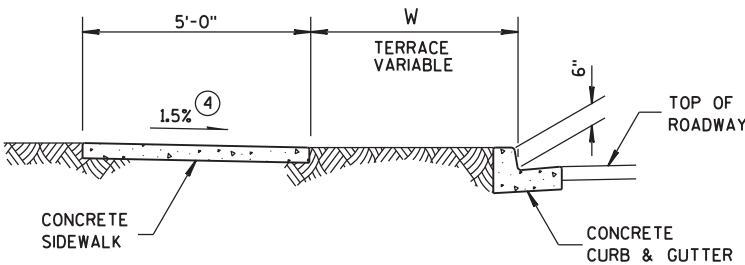
- ½" EXPANSION JOINT-SIDEWALK
- - - CONTRACTION JOINT FIELD LOCATED
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)

**CURB RAMPS**  
**TYPES 4A AND 4A1**

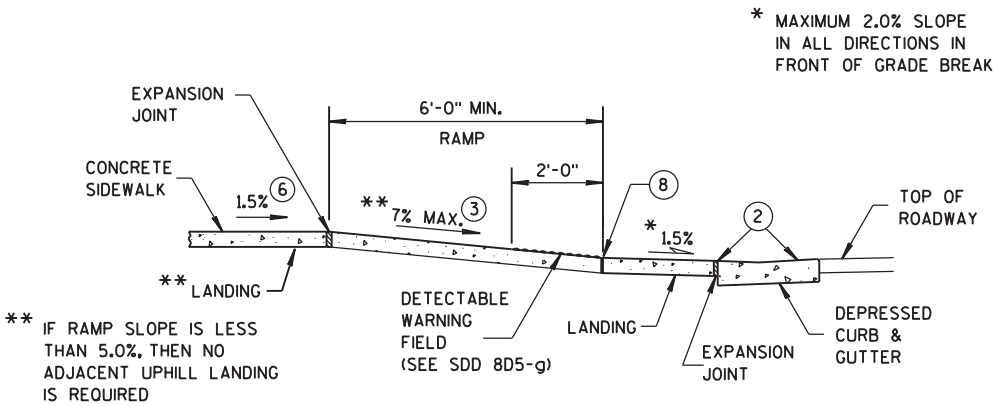
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



**CURB RAMP TYPE 4B  
PLAN VIEW**



**SECTION A-A FOR TYPE 4B**



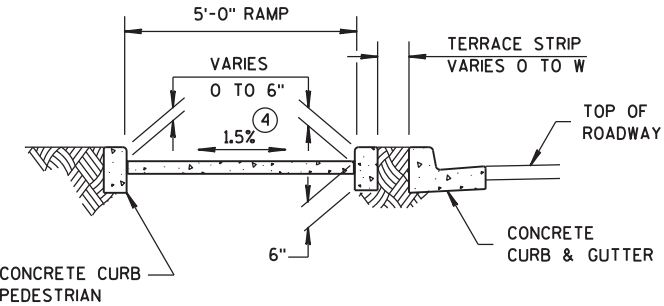
**SECTION B-B FOR TYPE 4B**

| RADIUS<br>(AT CURB FACE) | W = 3' - 0" |           | W = 4' - 0" |            | W = 5' - 0" |           | W = 6' - 0" |            | W = 7' - 0" |            | W = 8' - 0" |            | W = 9' - 0" |            | W = 10' - 0" |            |
|--------------------------|-------------|-----------|-------------|------------|-------------|-----------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|--------------|------------|
|                          | X           | Y         | X           | Y          | X           | Y         | X           | Y          | X           | Y          | X           | Y          | X           | Y          | X            | Y          |
| 10 FEET                  | 2'-10 1/4"  | 0'-5"     | 2'-1"       | 1'-4 1/2"  | 1'-5"       | 2'-1"     | 0'-10"      | 2'-7 1/2"  | 0'-3 1/4"   | 3'-0 1/4"  |             |            |             |            |              |            |
| 15 FEET                  | 4'-6 3/4"   | 2'-1 3/4" | 3'-9"       | 3'-5 1/4"  | 3'-1 1/4"   | 4'-6"     | 2'-6 3/4"   | 5'-4 1/2"  | 2'-1"       | 6'-1"      | 1'-8"       | 6'-8 1/2"  | 1'-3 1/4"   | 7'-2 1/2"  | 0'-10 3/4"   | 7'-7 1/4"  |
| 20 FEET                  | 5'-9 3/4"   | 3'-6 1/2" | 4'-11 1/2"  | 5'-1 3/4"  | 4'-3 1/4"   | 6'-5 1/2" | 3'-8 3/4"   | 7'-7"      | 3'-3"       | 8'-6 1/2"  | 2'-10"      | 9'-4 1/2"  | 2'-5 1/2"   | 10'-1 1/4" | 2'-1 1/4"    | 10'-9"     |
| 30 FEET                  |             |           | 6'-9 1/4"   | 7'-11 1/4" | 6'-0 1/4"   | 9'-8"     | 5'-5"       | 11'-1 3/4" | 4'-10 3/4"  | 12'-5 3/4" | 4'-5 1/2"   | 13'-7 3/4" | 4'-0 3/4"   | 14'-8 1/2" | 3'-8 1/2"    | 15'-8 1/4" |
| 40 FEET                  |             |           |             |            |             |           |             |            | 6'-1 3/4"   | 15'-8 1/2" | 5'-8"       | 17'-2"     | 5'-3"       | 18'-5 3/4" | 4'-10 3/4"   | 19'-8 1/4" |
| 50 FEET                  |             |           |             |            |             |           |             |            |             |            |             |            |             |            | 5'-10 1/4"   | 23'-2"     |

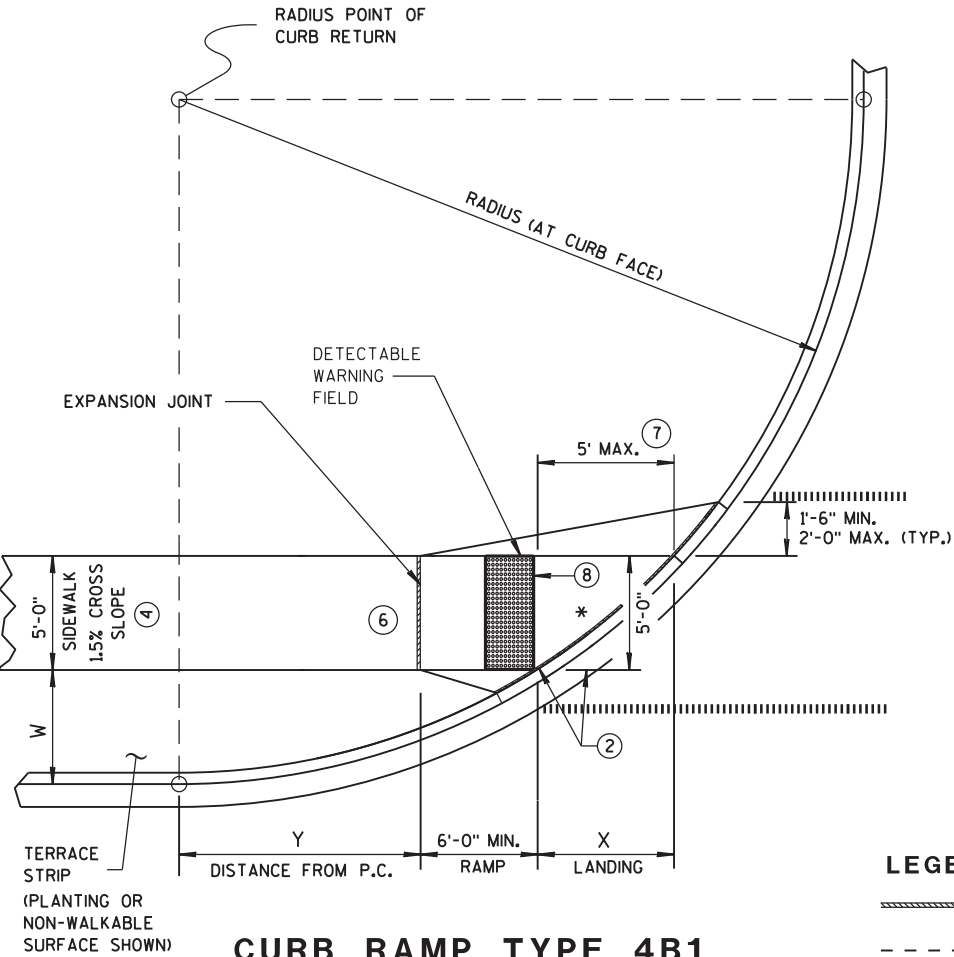
INTERMEDIATE RADII CAN BE INTERPOLATED  
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH  
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

**GENERAL NOTES**

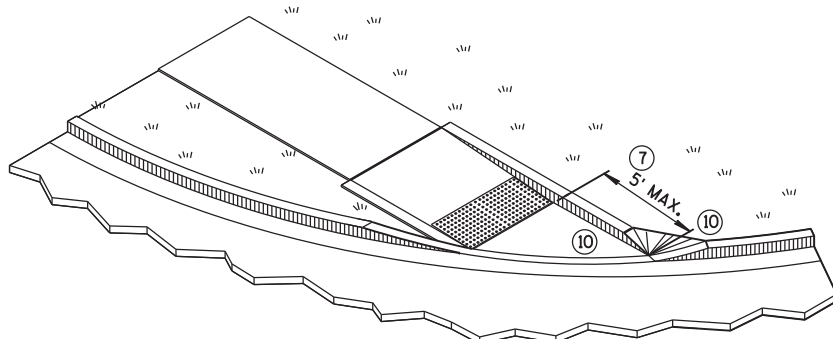
- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
- GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
- WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



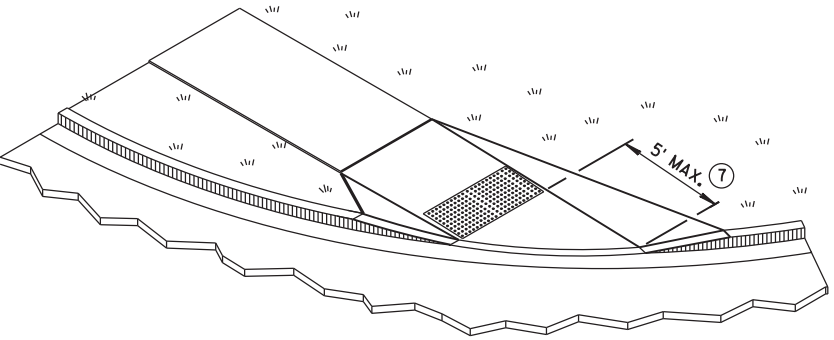
**SECTION C-C FOR TYPE 4B**



**CURB RAMP TYPE 4B1  
PLAN VIEW**



**ISOMETRIC VIEW FOR TYPE 4B**

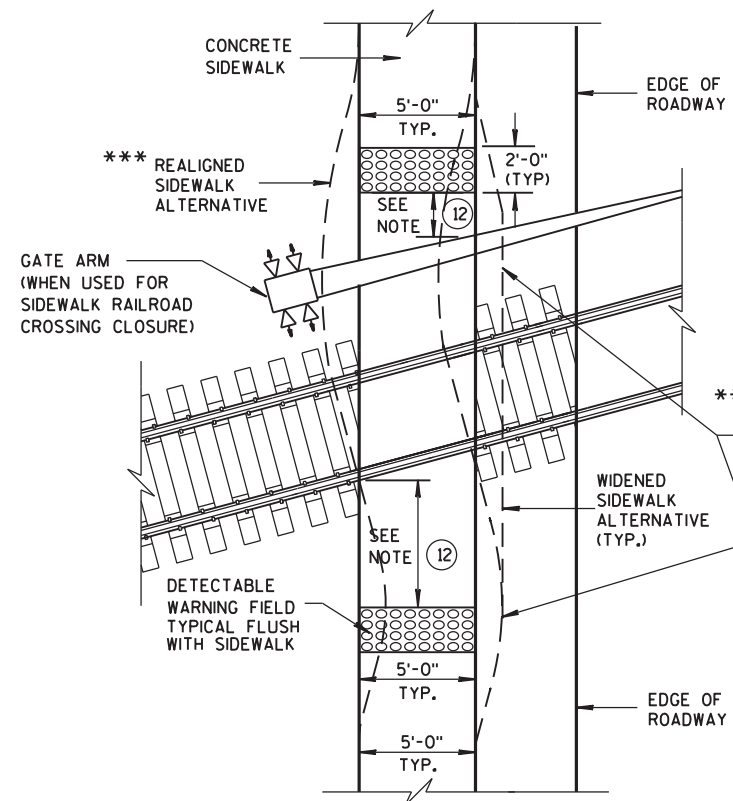


**ISOMETRIC VIEW FOR TYPE 4B1**

- LEGEND**
- 1/2" EXPANSION JOINT-SIDEWALK
  - CONTRACTION JOINT FIELD LOCATED
  - PAVEMENT MARKING CROSSWALK (WHITE)

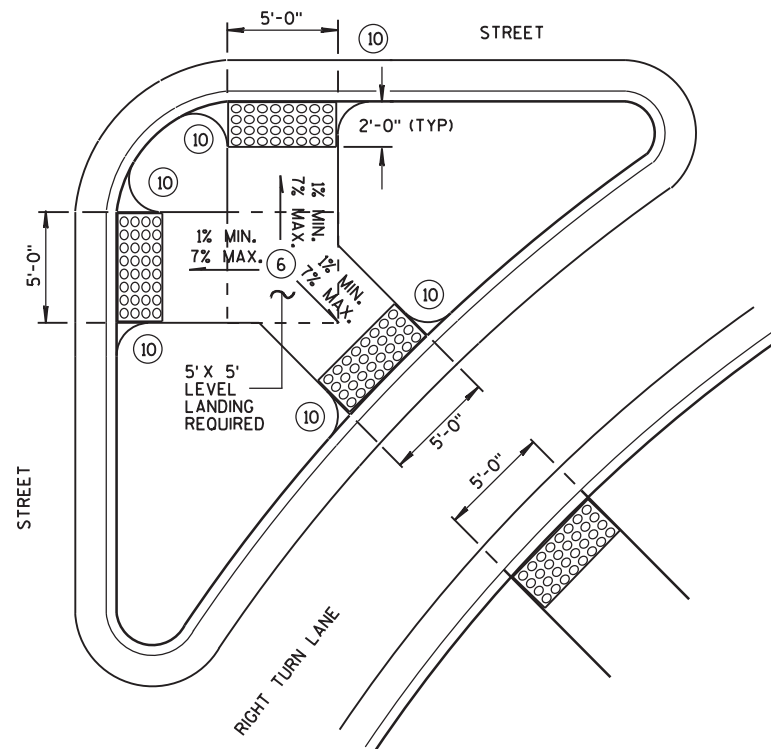
**CURB RAMPS  
TYPE 4B AND 4B1**

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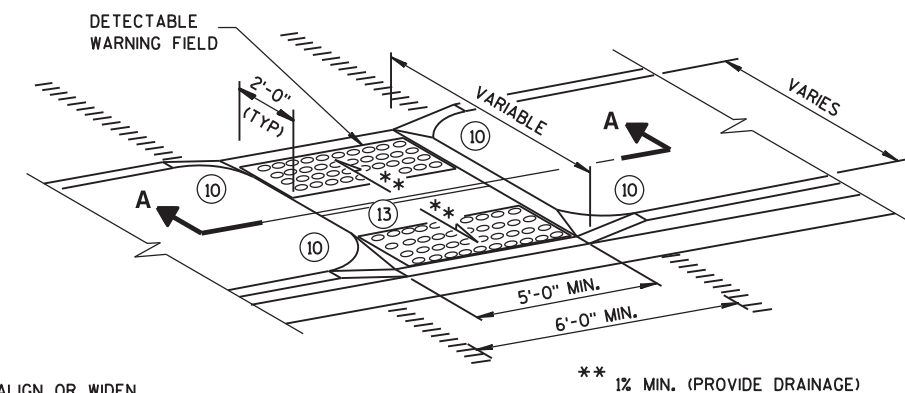


**TYPE 8**  
**DETECTABLE WARNINGS**  
**AT RAILROAD CROSSING**

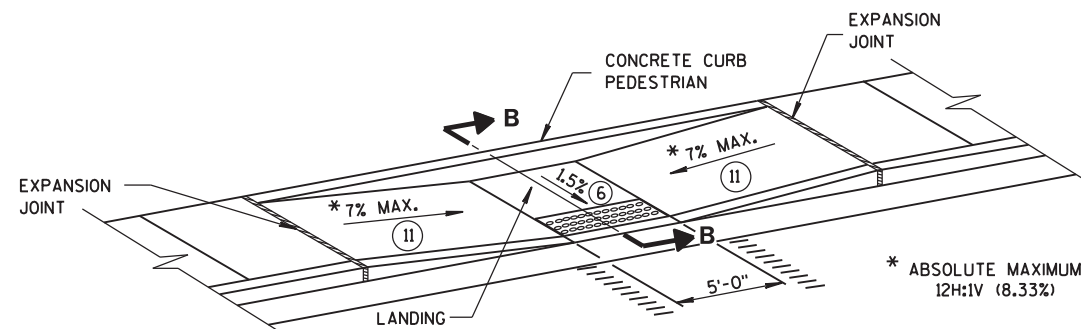
REFER TO GENERAL NOTES (2) AND (3)  
FOR ALL ISLAND CURB RAMP



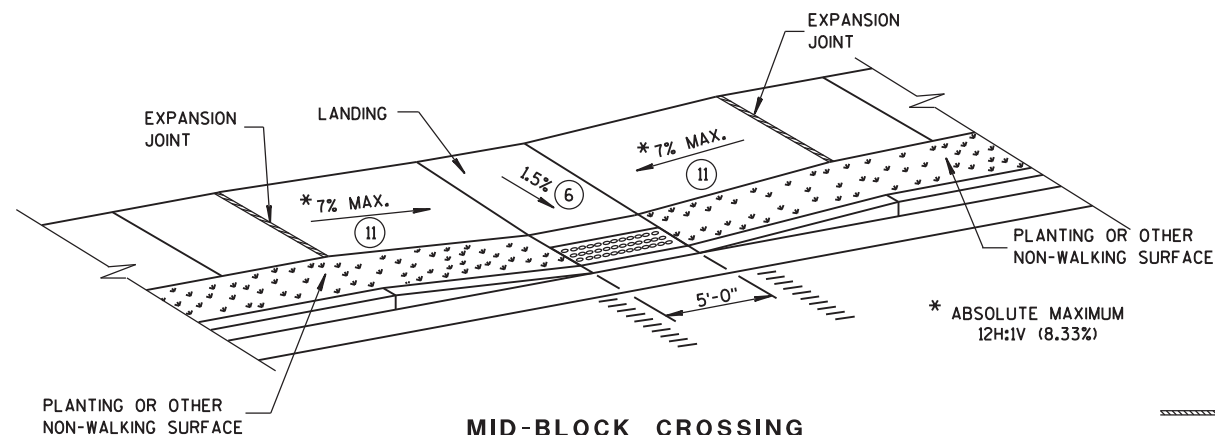
**TYPE 6**  
**DETECTABLE WARNING AT ISLANDS**



**MEDIAN ISLAND**  
**NON-ELEVATED PEDESTRIAN CROSSING**  
**TYPE 5**



**MID-BLOCK CROSSING**  
**TYPE 7A**

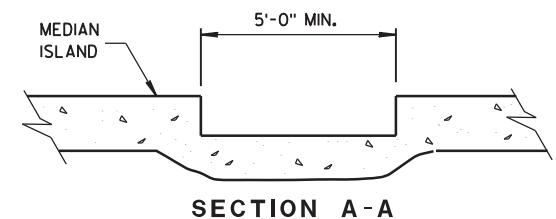


**MID-BLOCK CROSSING**  
**TYPE 7B**

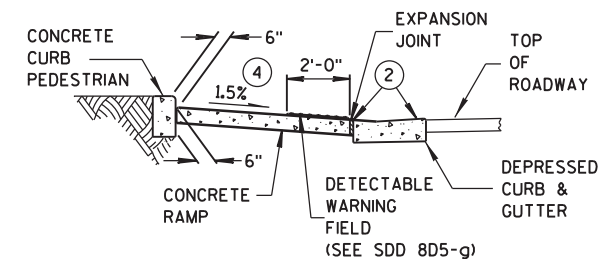
NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMP  
MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

## GENERAL NOTES

- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
- (2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- (3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
- (10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.
- (11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.
- (12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 15 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.
- (13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



**SECTION A-A**



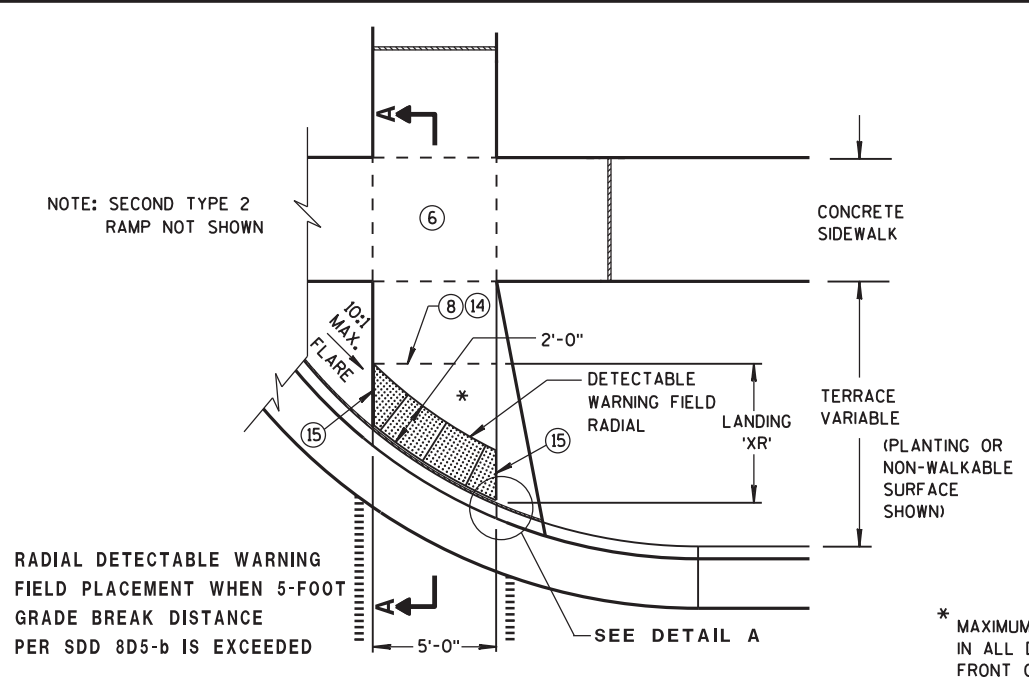
**SECTION B-B**

## LEGEND

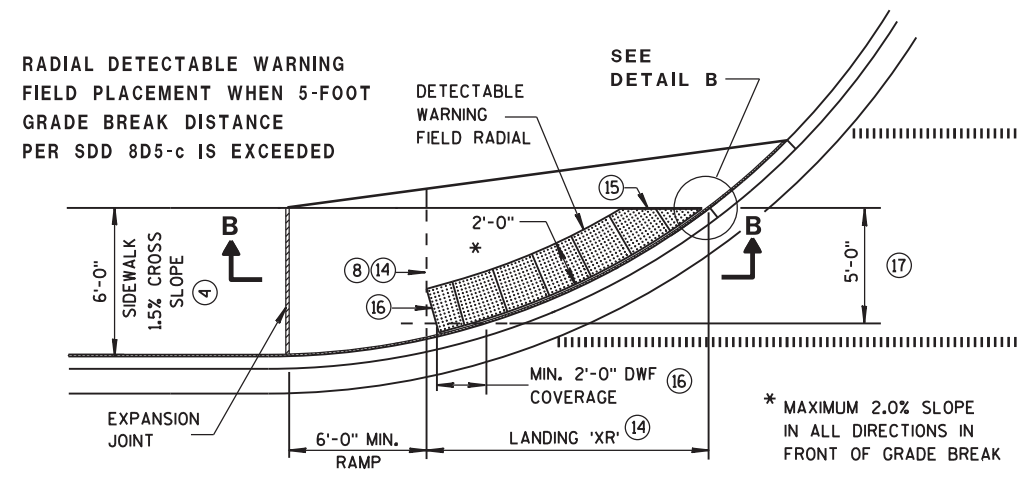
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

**CURB RAMP**  
**TYPES 5, 6, 7A, 7B & 8**

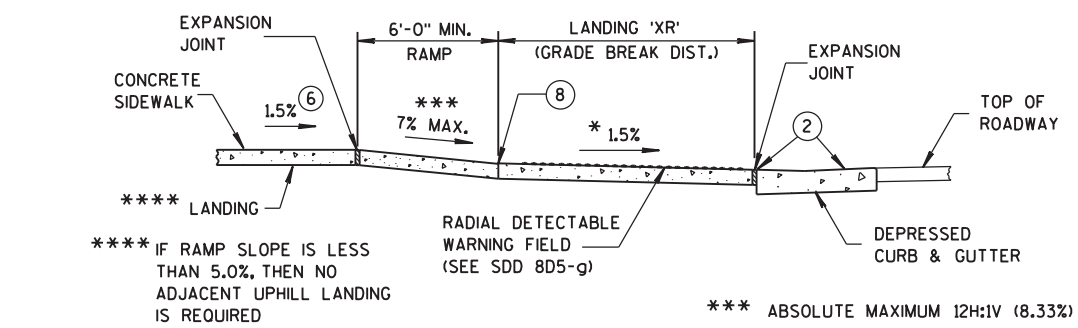
STATE OF WISCONSIN  
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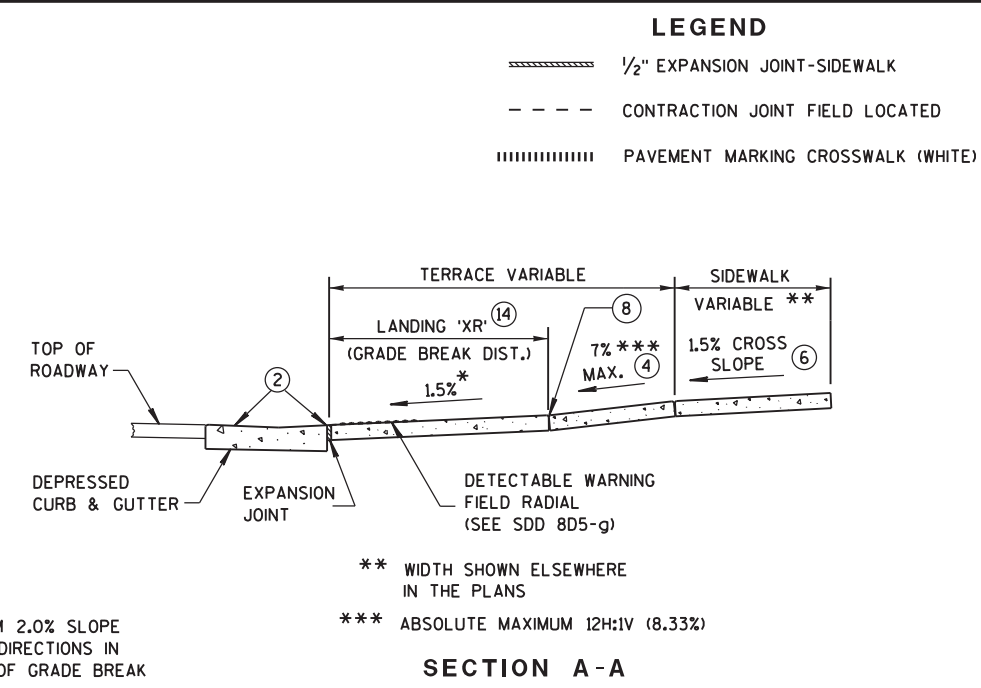
**TYPE 2 RAMP**  
**PLAN VIEW**  
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)  
(ON LINE WITH SIDEWALK)



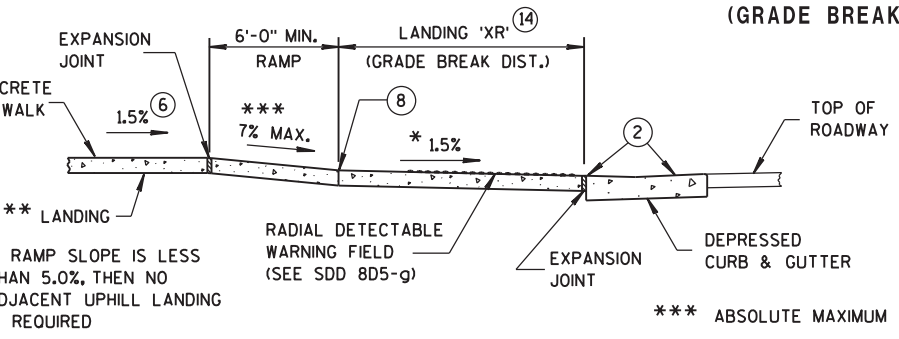
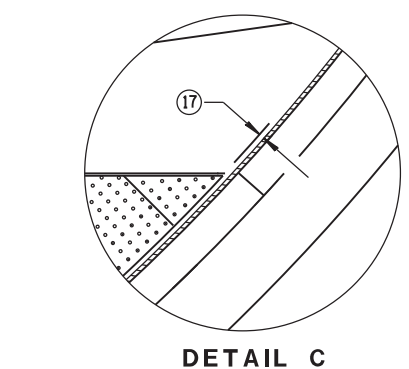
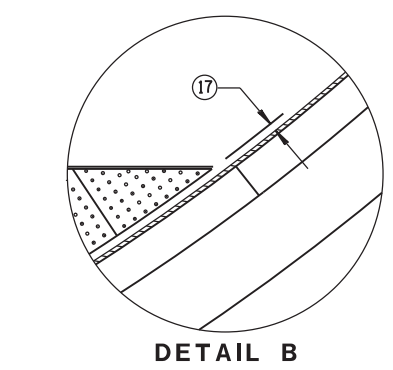
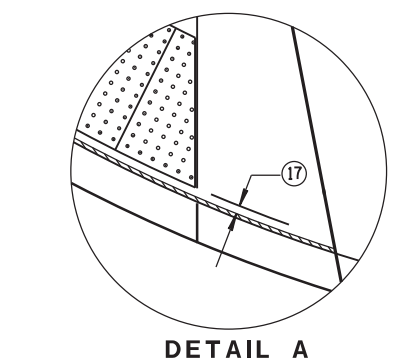
**CURB RAMP TYPE 4A1**  
**PLAN VIEW**  
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



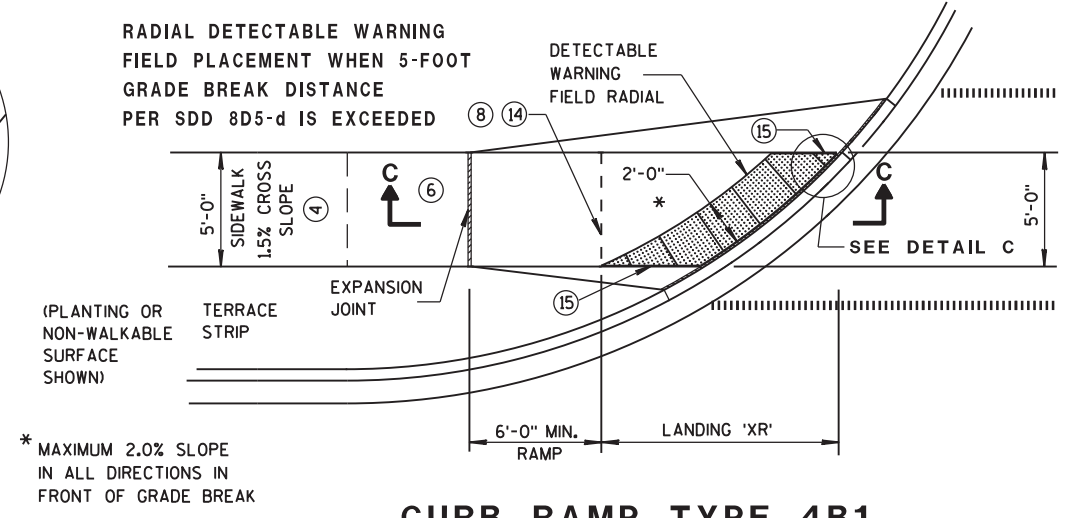
**SECTION B-B FOR TYPE 4A1**



**SECTION A-A**



**SECTION C-C FOR TYPE 4B1**

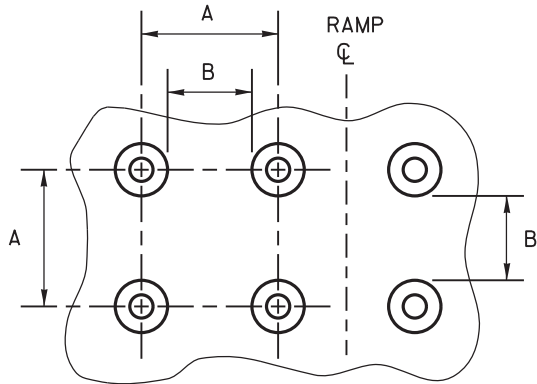


**CURB RAMP TYPE 4B1**  
**PLAN VIEW**  
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

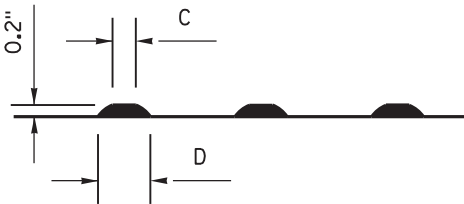
- LEGEND**
- 1/2" EXPANSION JOINT-SIDEWALK
  - CONTRACTION JOINT FIELD LOCATED
  - PAVEMENT MARKING CROSSWALK (WHITE)
- GENERAL NOTES**
- AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.
- APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.
- REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.
- FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.
- DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.
- GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
  - ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
  - ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
  - PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
  - PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
  - CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.
  - FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.
  - USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.
  - A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

|   | MIN.  | MAX. |
|---|-------|------|
| A | 1.6"  | 2.4" |
| B | 0.65" | 1.5" |
| C | *     | *    |
| D | 0.9"  | 1.4" |

\* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

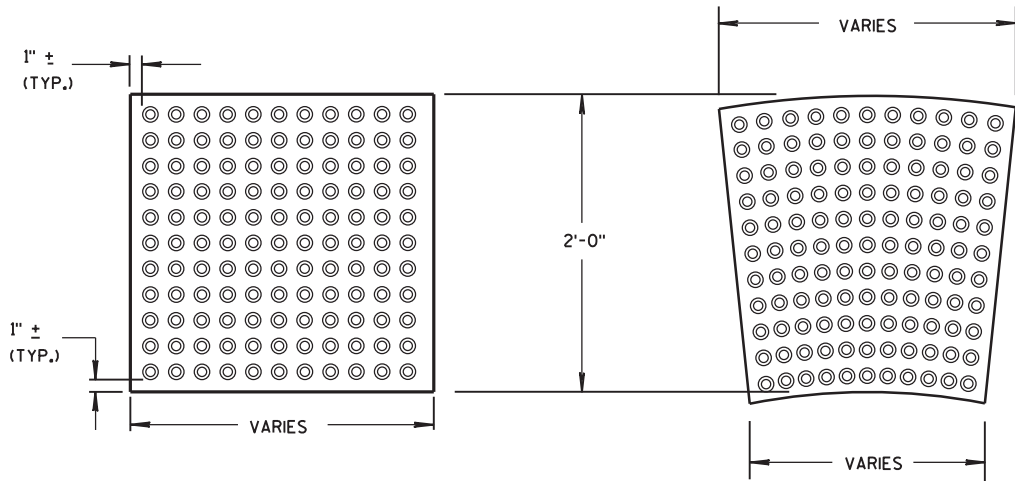


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES  
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES  
RADIAL PLATES  
DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

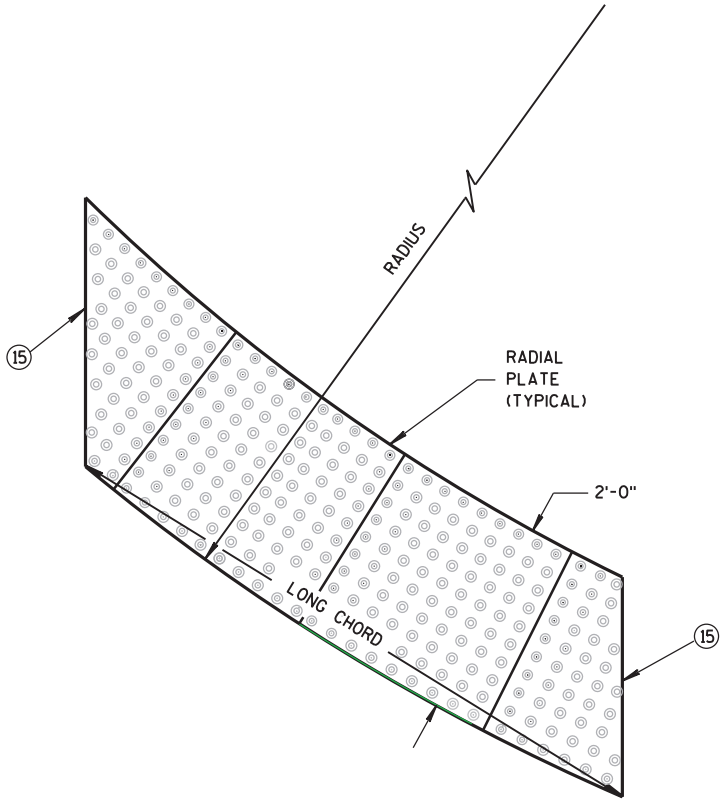
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

15 FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



RADIAL DETECTABLE  
WARNING FIELD ATTRIBUTES

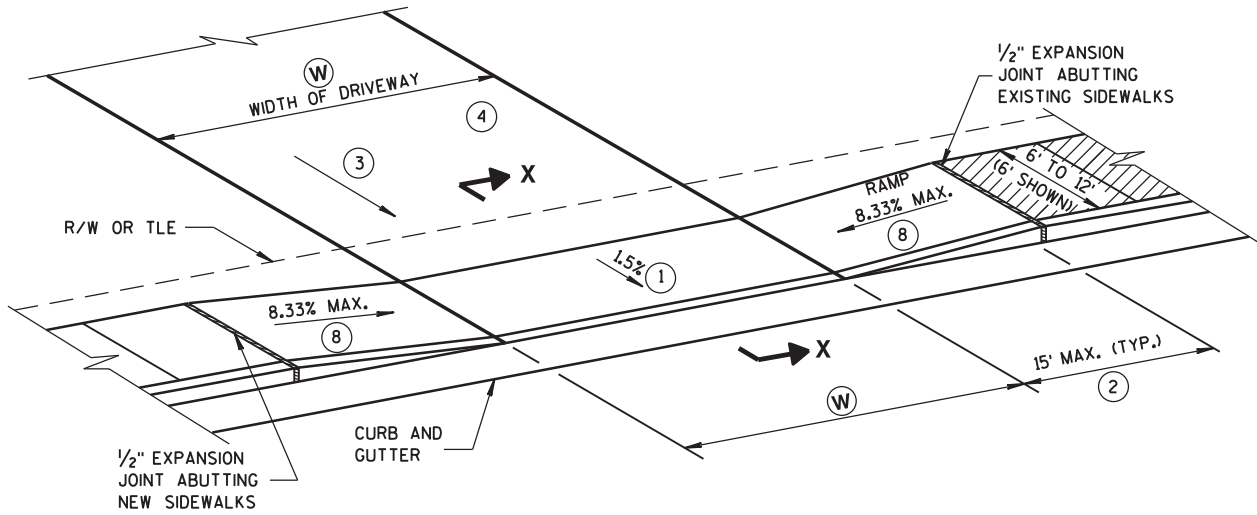
CURB RAMPS  
RECTANGULAR AND RADIAL  
DETECTABLE WARNING PLATES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

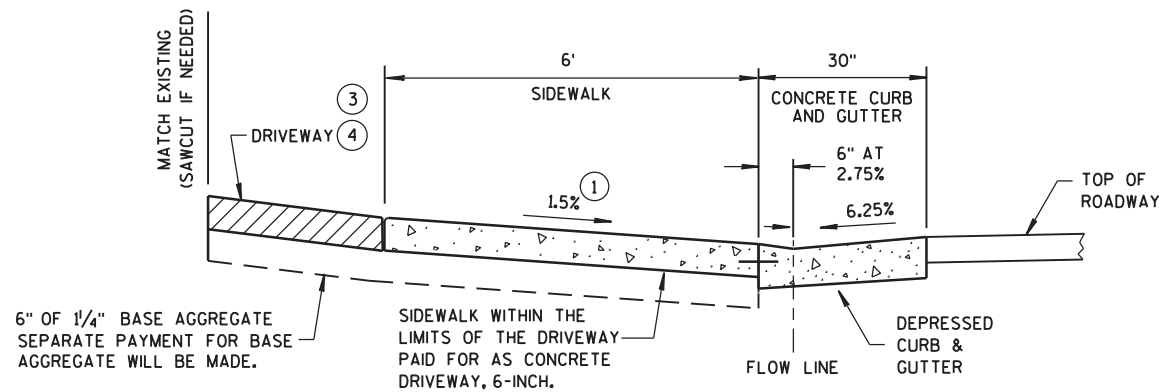
APPROVED  
June, 2017 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS UNIT SUPERV 63 ENT  
FHWA

GENERAL NOTES

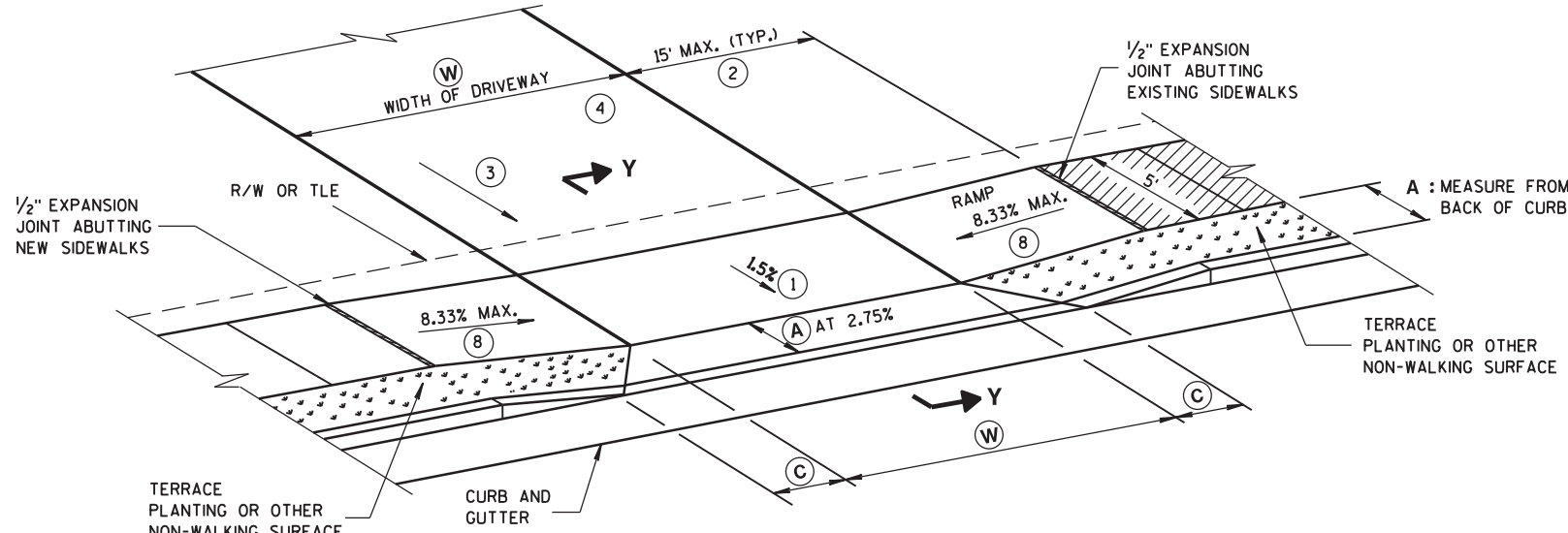
- 1 CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- 2 THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.
- 3 DRIVEWAY SLOPES: DESIRABLE MAXIMUM  
10.5% UP AWAY FROM SIDEWALK (SAG)  
8.5% DOWN AWAY FROM SIDEWALK (CREST)  
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG
- 4 DRIVEWAY TYPES
  - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
  - 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
  - 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)
- 5 PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.
- 6 (W) IS SHOWN ON PLAN AND PROFILE SHEETS.
- 7 OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.
- 8 SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.



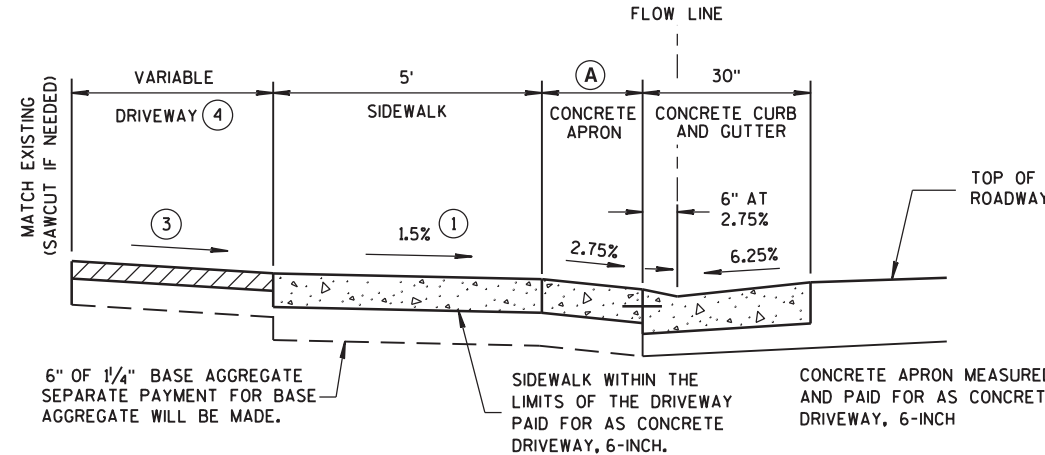
TYPE X  
SIDEWALK ABUTS CURB & GUTTER  
TERRACE VARIES 0 TO 3 FEET



SECTION X-X



TYPE Y  
SIDEWALK WITH NARROWER TERRACE  
TERRACE VARIES 4 TO 6 FEET



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y  
DRIVEWAY DETAIL  
WITH CONCRETE CURB & GUTTER  
(URBAN AND SUBURBAN)

TABLE Y

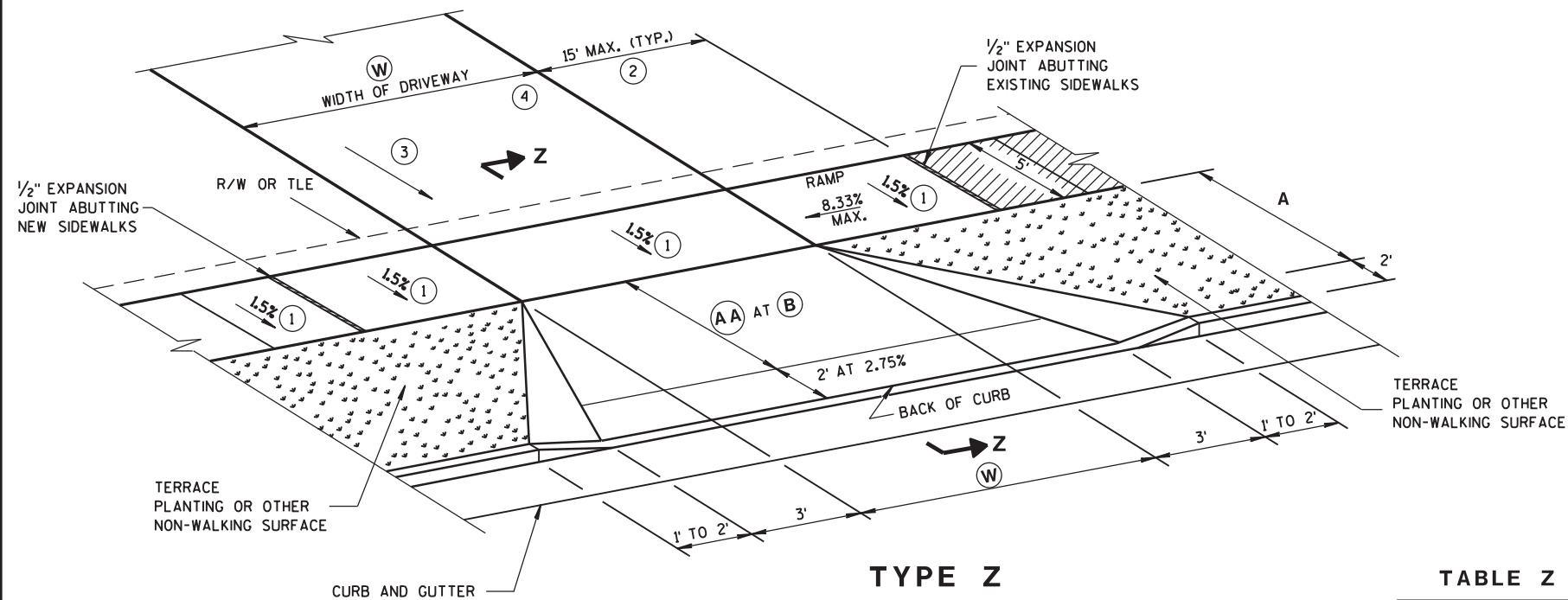
| (A)<br>FEET | (C)<br>FEET |
|-------------|-------------|
| 3.5'        | 2.0'        |
| 4.5'        | 3.0'        |
| 5.5'        | 3.5'        |

NOT TO SCALE

DRIVEWAY AND SIDEWALK  
RAMPS  
TYPES X & Y

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

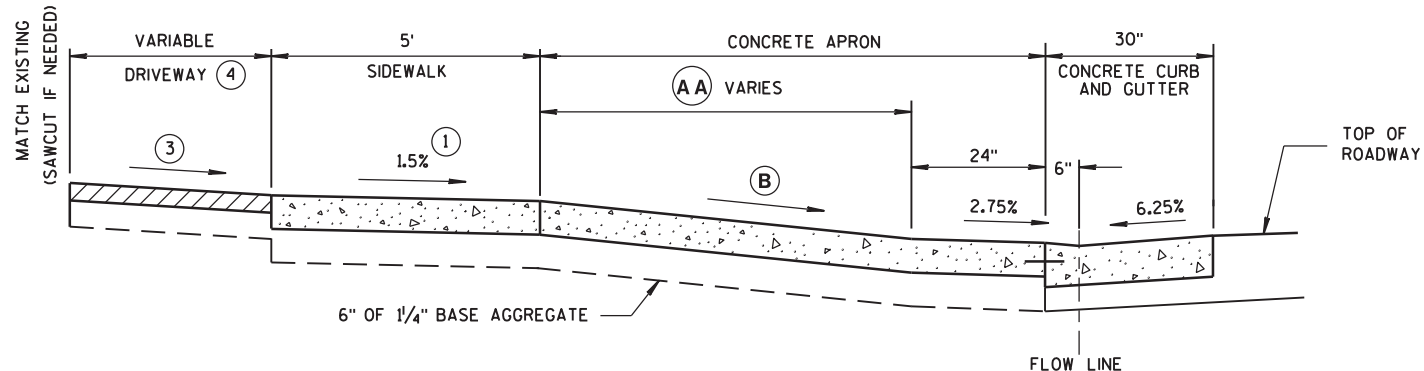
APPROVED  
December, 2016 /S/ Rodney Taylor  
DATE ROADWAY STANDARDS UNIT SUPERV 64 ENT  
FHWA



**TYPE Z**  
**SIDEWALK WITH WIDER TERRACE**  
**TERRACE VARIES 7 TO 12 FEET**

**TABLE Z**

| (A) FEET | (B) %   |
|----------|---------|
| 4.5'     | 11.5%   |
| 5.5'     | 9-11.5% |
| 6.5'     | 8-11.5% |
| 7.5'     | 7-11.5% |
| 8.5'     | 6-11.5% |
| 9.5'     | 5-11.5% |



PROVIDE (A) AND (B) AS SHOWN ON CROSS SECTIONS.

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR B VALUES NOT SHOWN IN TABLE Z.  
 SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY, 6-INCH.  
 SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

CONCRETE APRON MEASURED AND PAID FOR AS CONCRETE DRIVEWAY, 6-INCH

**SECTION Z-Z**  
**DRIVEWAY DETAIL**  
**WITH CONCRETE CURB & GUTTER**  
**(URBAN AND SUBURBAN)**

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)  
 16' MIN. - 35' MAX. COMMERCIAL (CE)

**GENERAL NOTES**

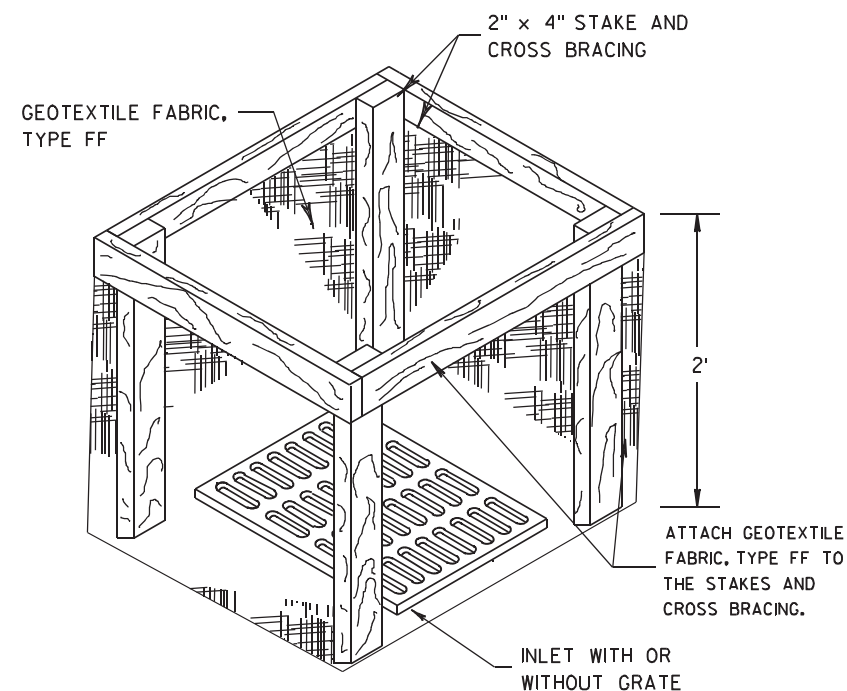
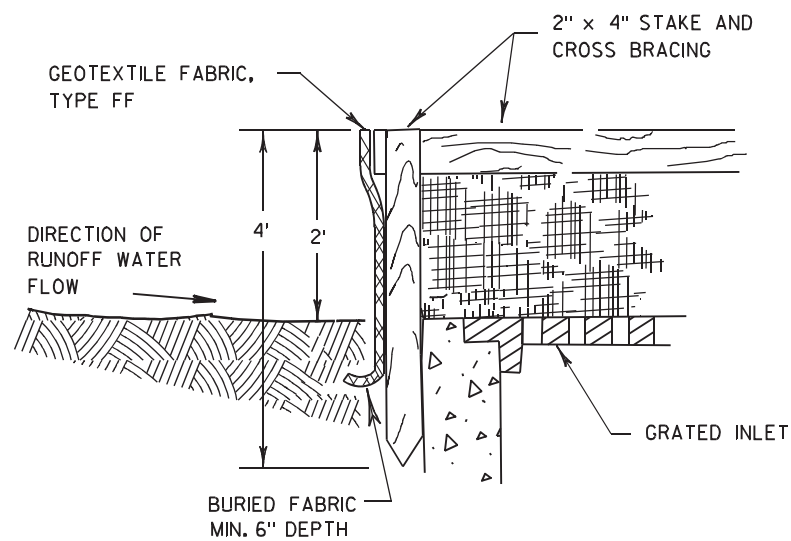
- CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.
- DRIVEWAY SLOPES: DESIRABLE MAXIMUM**  
 10.5% UP AWAY FROM SIDEWALK (SAG)  
 8.5% DOWN AWAY FROM SIDEWALK (CREST)  
 ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG
- DRIVEWAY TYPES**
  - 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
  - 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
  - 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)
- PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.
- (W) IS SHOWN ON PLAN AND PROFILE SHEETS.
- OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

NOT TO SCALE

**DRIVEWAY AND SIDEWALK**  
**RAMPS**  
**TYPE Z**

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

APPROVED  
 December, 2016 /S/ Rodney Taylor  
 DATE ROADWAY STANDARDS UNIT SUPERV ENT  
 FHWA



**INLET PROTECTION, TYPE A**

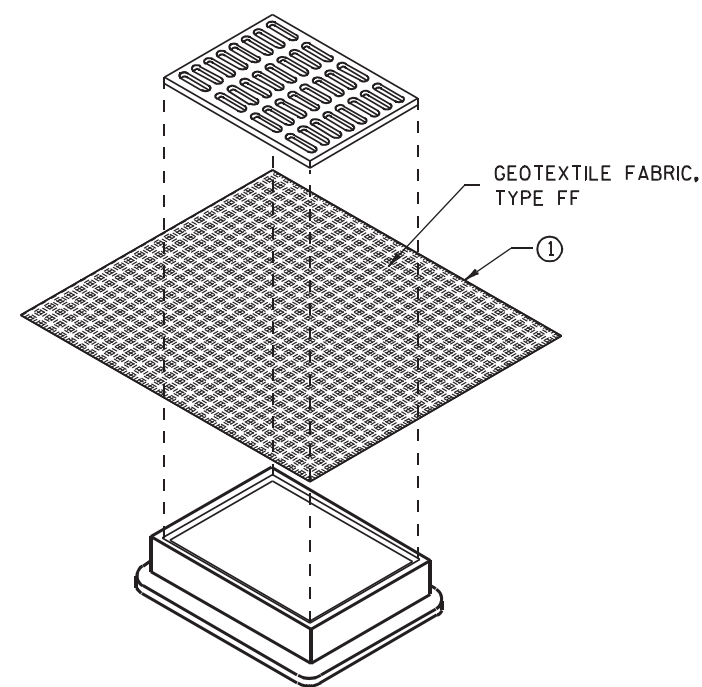
**GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

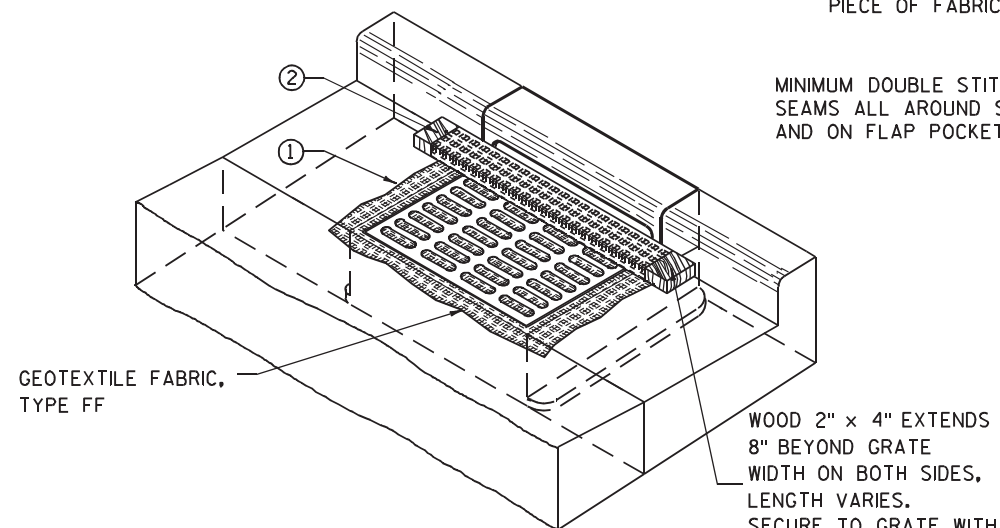
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B  
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



**INLET PROTECTION, TYPE C (WITH CURB BOX)**

**INSTALLATION NOTES**

**TYPE B & C**

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

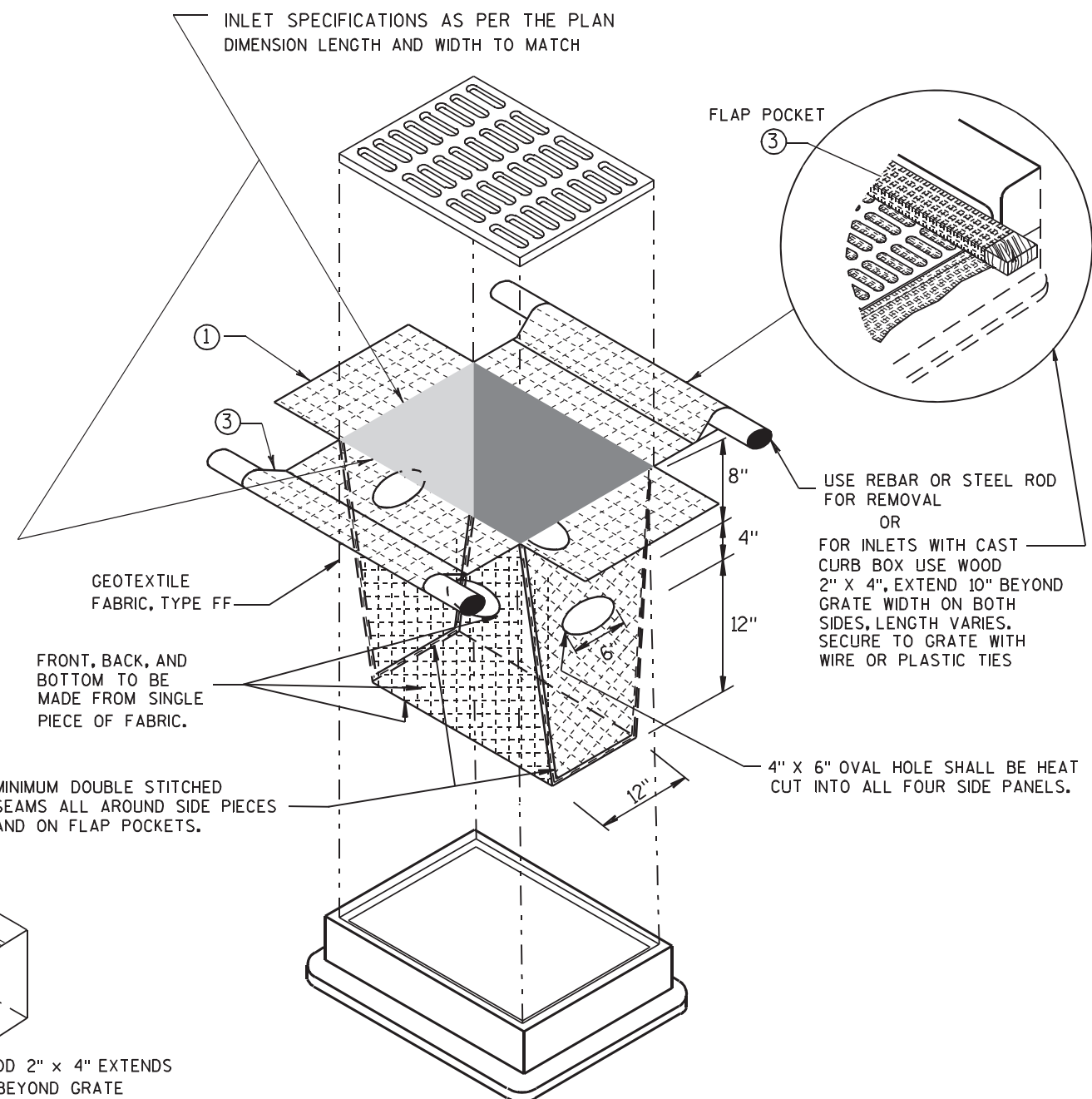
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

**TYPE D**

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLower THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



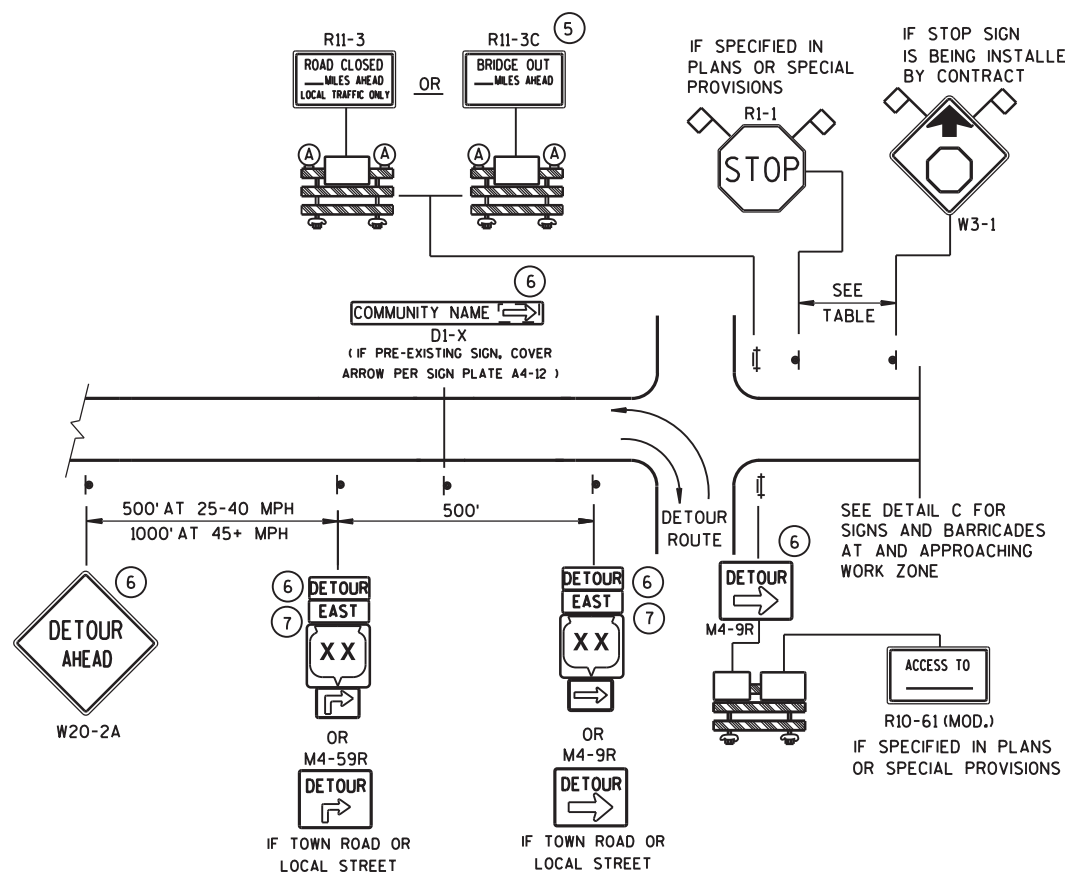
**INLET PROTECTION, TYPE D**

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

**INLET PROTECTION  
TYPE A, B, C, AND D**

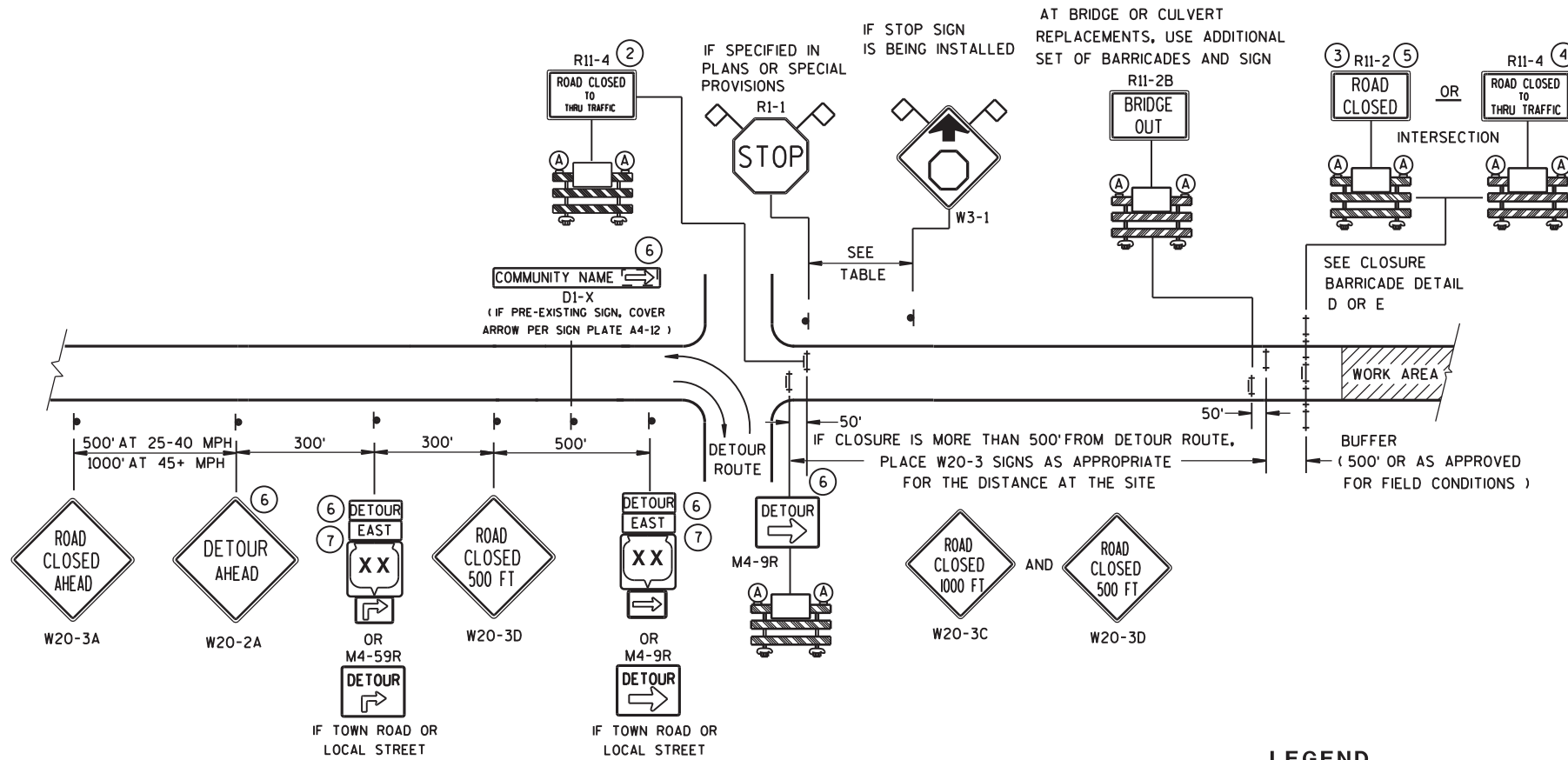
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
10/16/02 /S/ Beth Connolly  
DATE 66  
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER



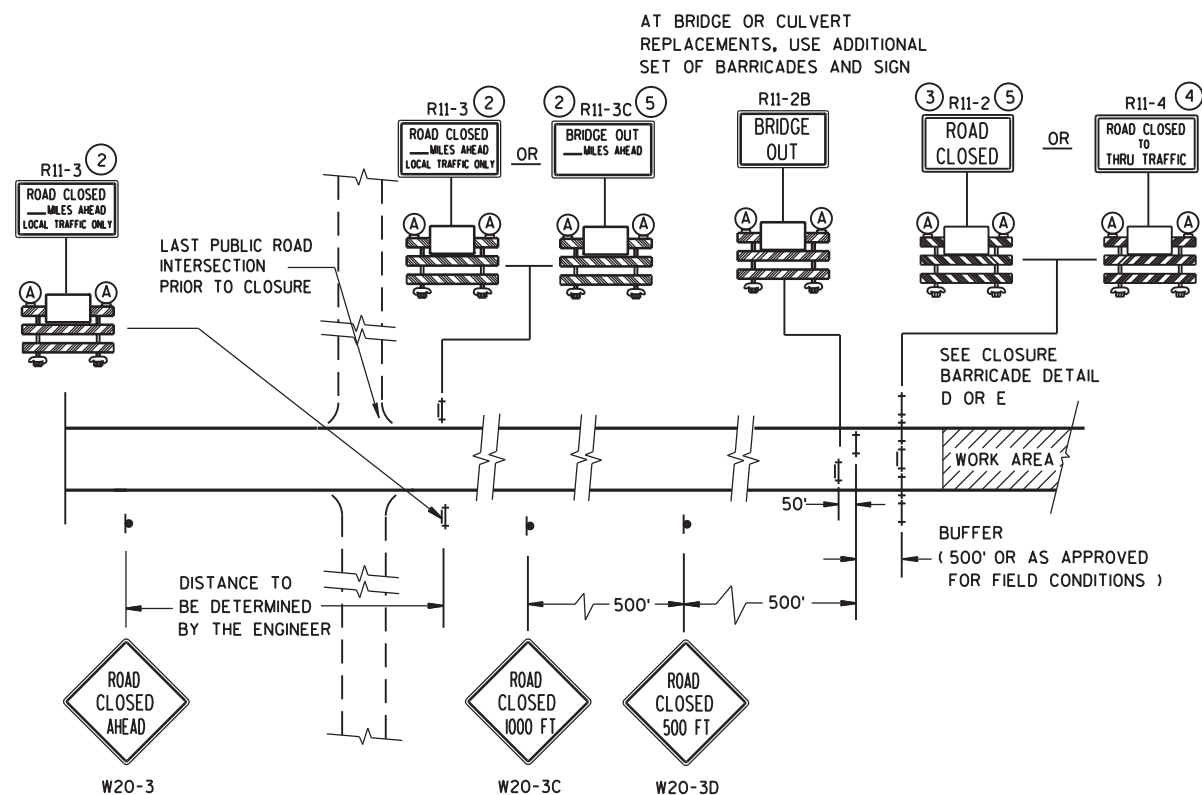
### DETAIL A MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN 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

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

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

#### LEGEND

- SIGN ON PERMANENT SUPPORT
- ⊥ TYPE III BARRICADE
- ⊥ TYPE III BARRICADE WITH ATTACHED SIGN
- Ⓐ TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

DETOUR EAST M4-8 M3-X  
XX OR COUNTY XX OR XX  
M1-4 M1-5A M1-6

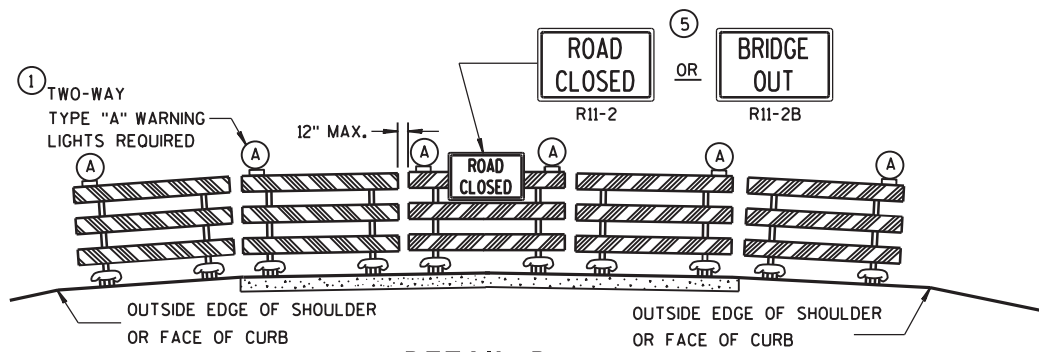
M05-1 OR M06-1

FLAGS, 16" X 16" MIN., (ORANGE)

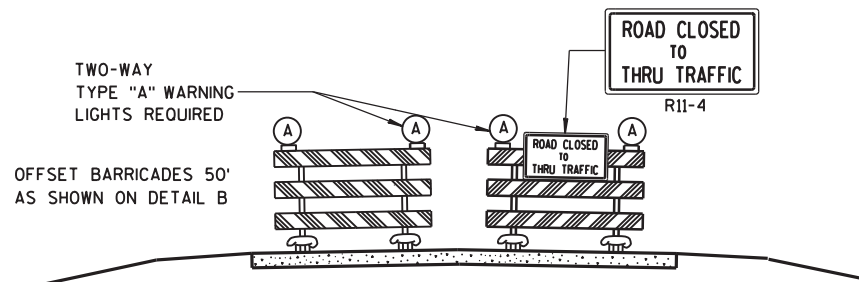
#### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

Sept. 2015 /S/ Peter Amakobe Atepe  
DATE STATEWIDE WORK ZONE SAFETY 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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

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

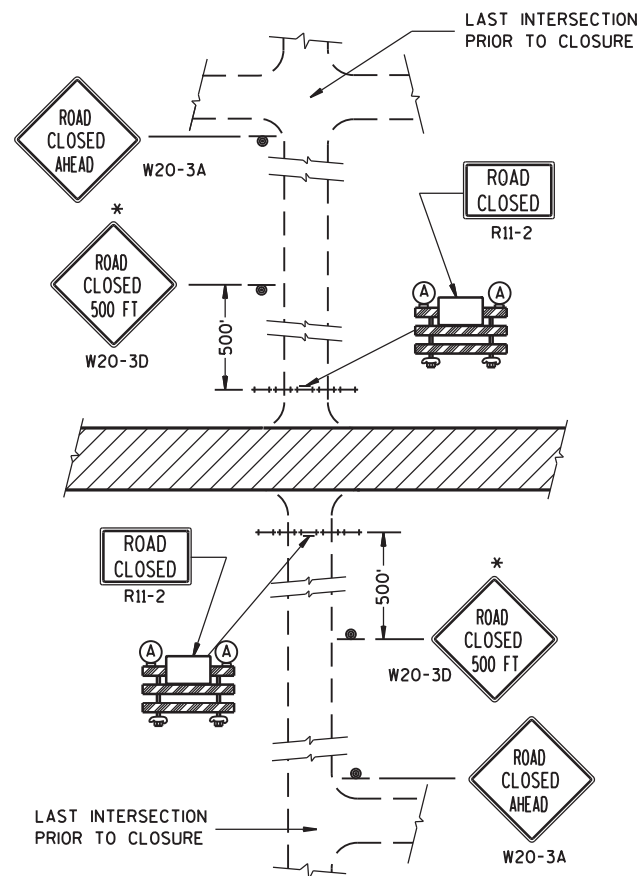
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 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 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 LANE 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.

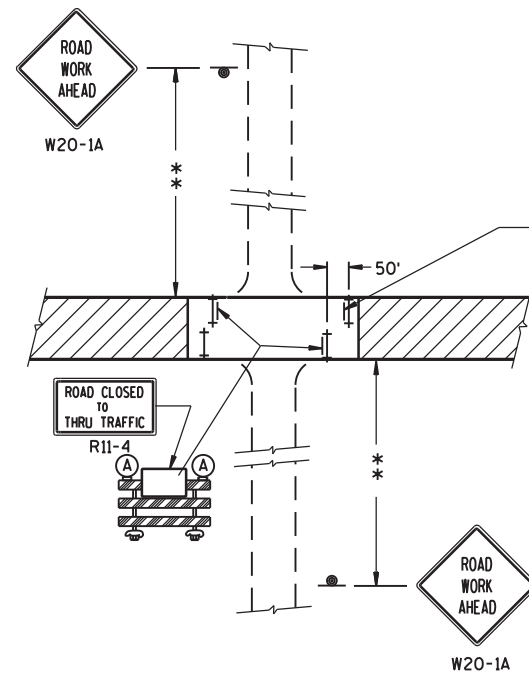
**BARRICADES AND SIGNS  
FOR  
MAINLINE CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

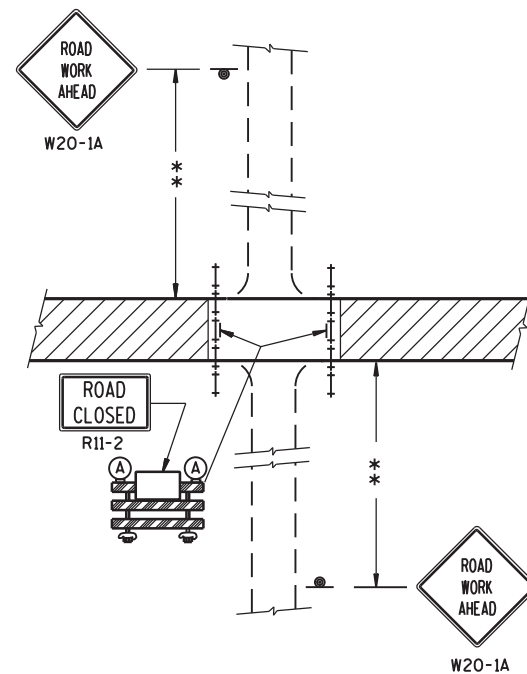
Sept. 2015 /S/ Peter Amokobe Atepe  
DATE STATEWIDE WORK ZO 68 FIC  
FHWA SAFETY ENGI

**DETAIL 1**

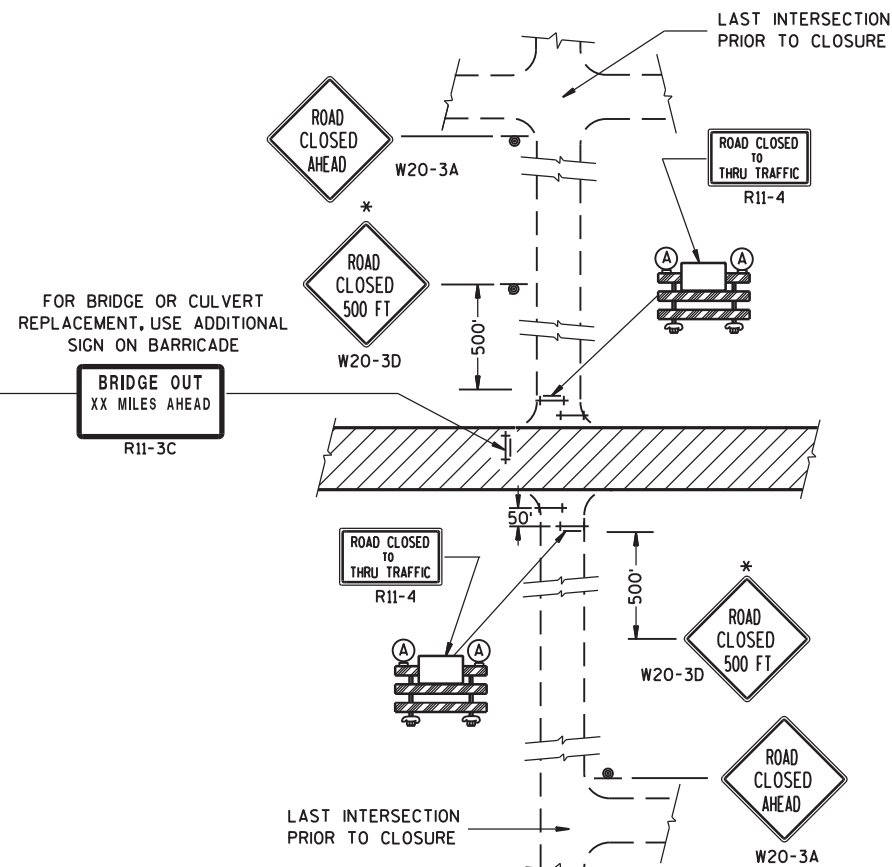
(NO ACCESS TO PROJECT)

**DETAIL 3**

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

**DETAIL 2**

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).

**DETAIL 4**

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

**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.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

R11-2 SHALL BE 48" X 30".

R11-4 AND R11-3 SHALL BE 60" X 30".

\*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

\*\*500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

**LEGEND**

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊢ TYPE III BARRICADE
- ⊢ TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

**BARRICADES AND SIGNS  
FOR  
SIDEROAD CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015

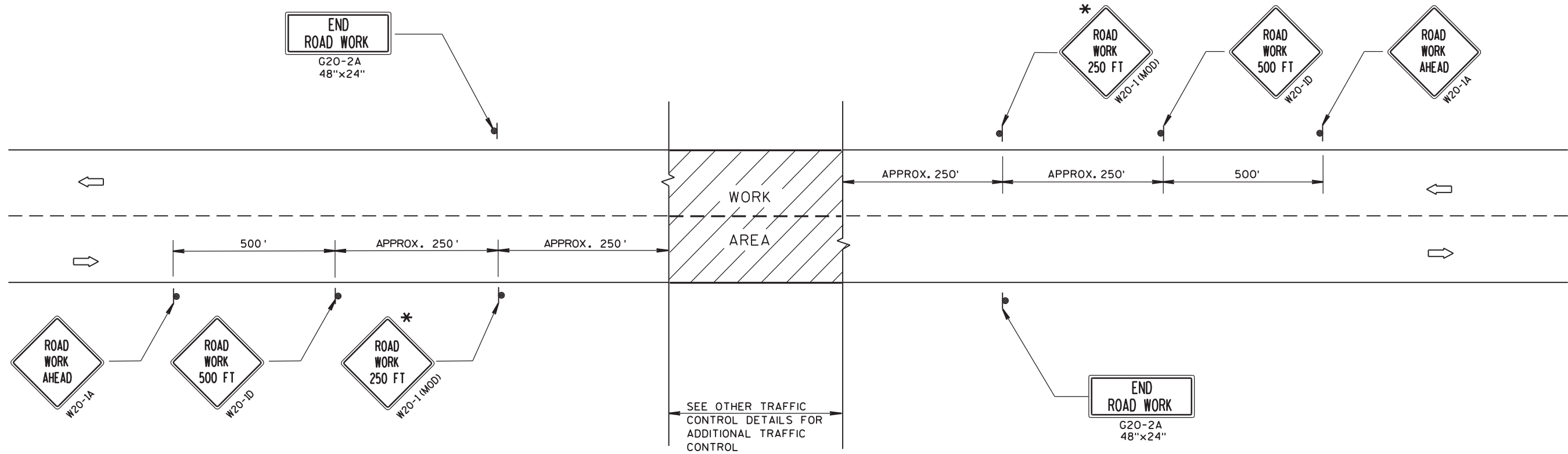
DATE

FHWA

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE SAFETY ENGINEER

69



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

## GENERAL NOTES

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

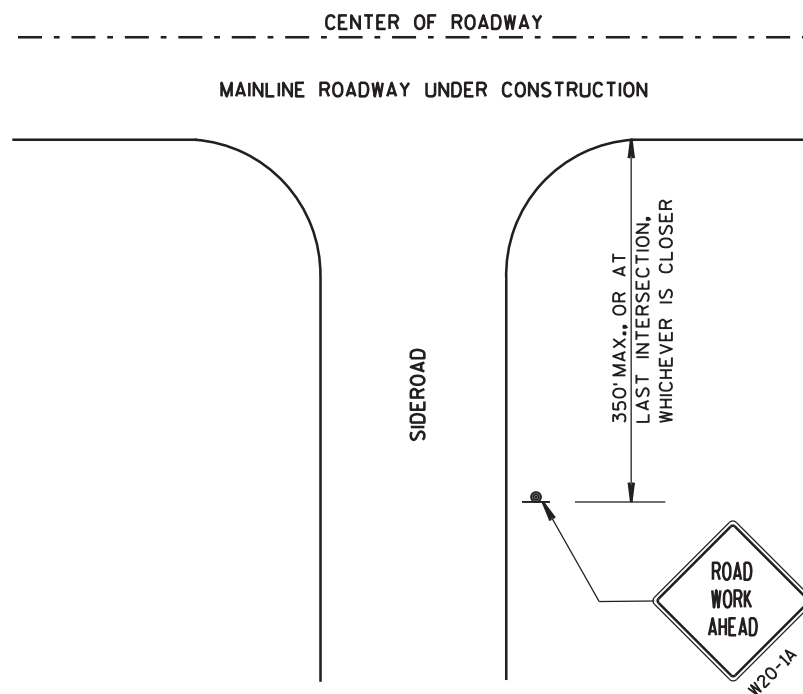
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

\* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



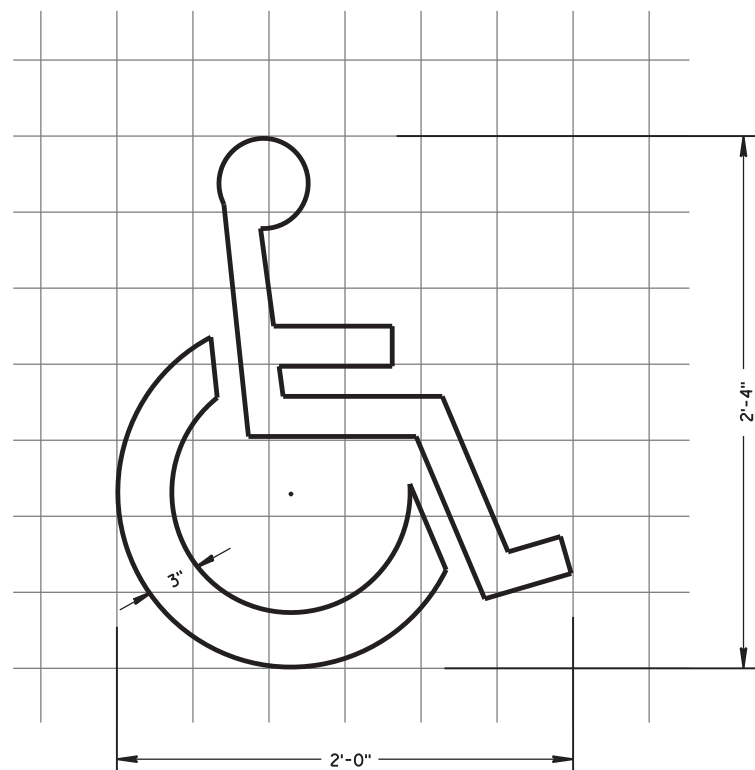
## LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

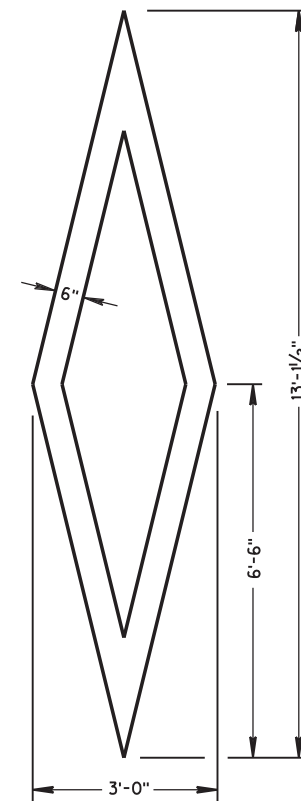
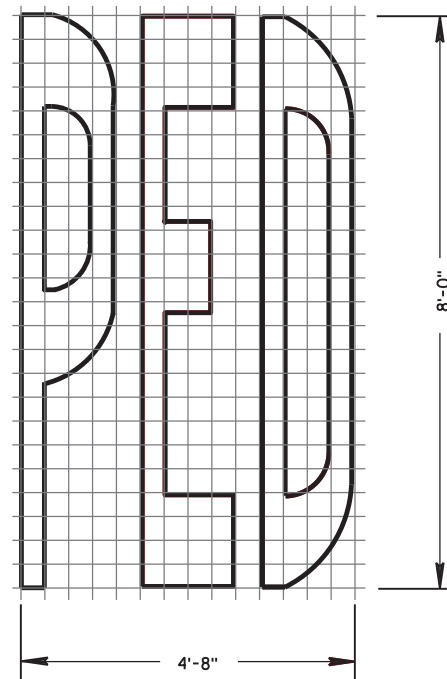
TRAFFIC CONTROL, ADVANCE  
WARNING SIGNS 40 M.P.H.  
OR LESS TWO-WAY UNDIVIDED  
ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
Sept. 2015 /S/ Peter Amakobe Atepe  
DATE STATEWIDE WORK ZONE IC  
FHWA SAFETY ENGINEER



HANDICAP SYMBOL

PREFERENTIAL  
LANE SYMBOL**GENERAL NOTES**

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

**PAVEMENT MARKING SYMBOLS**

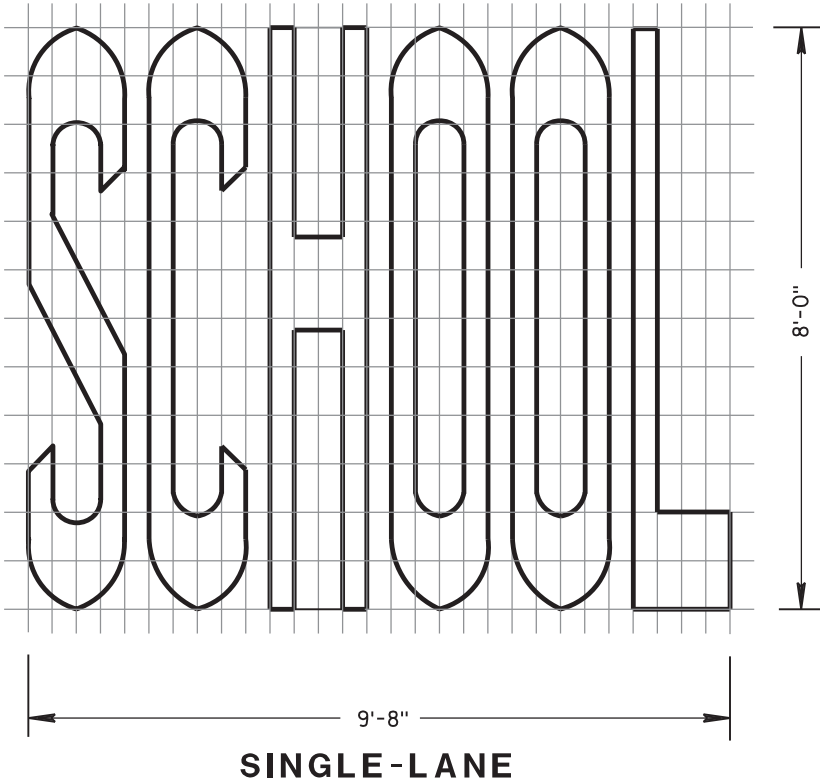
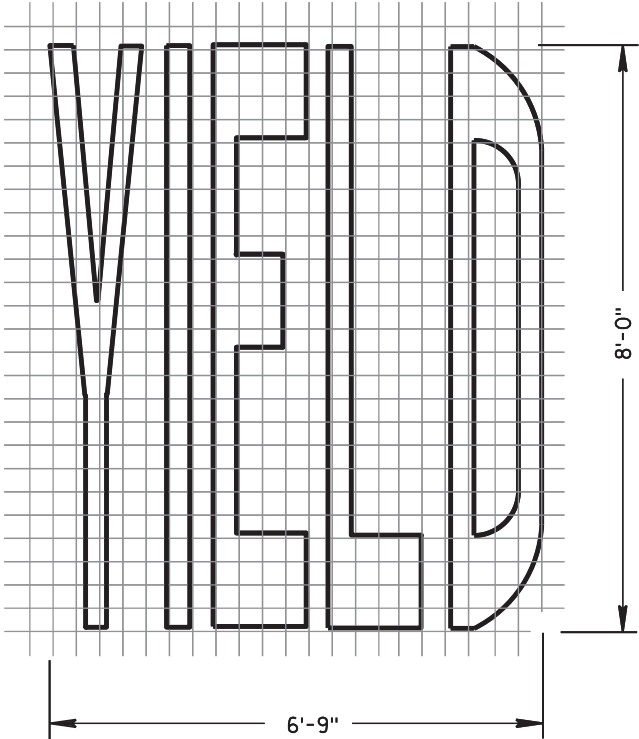
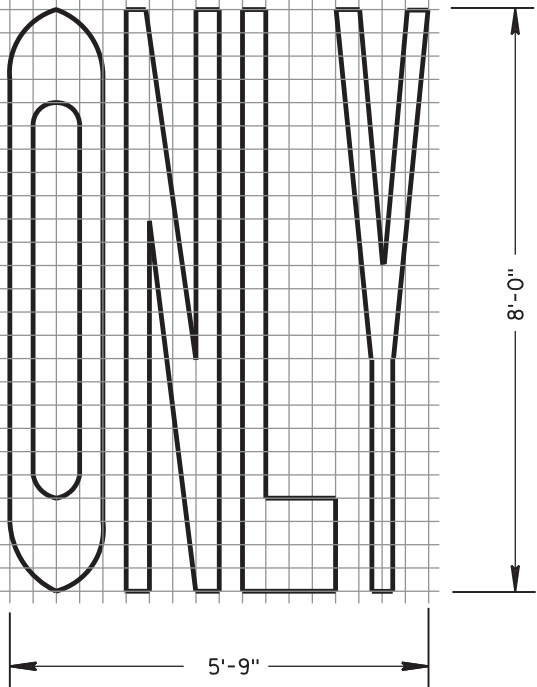
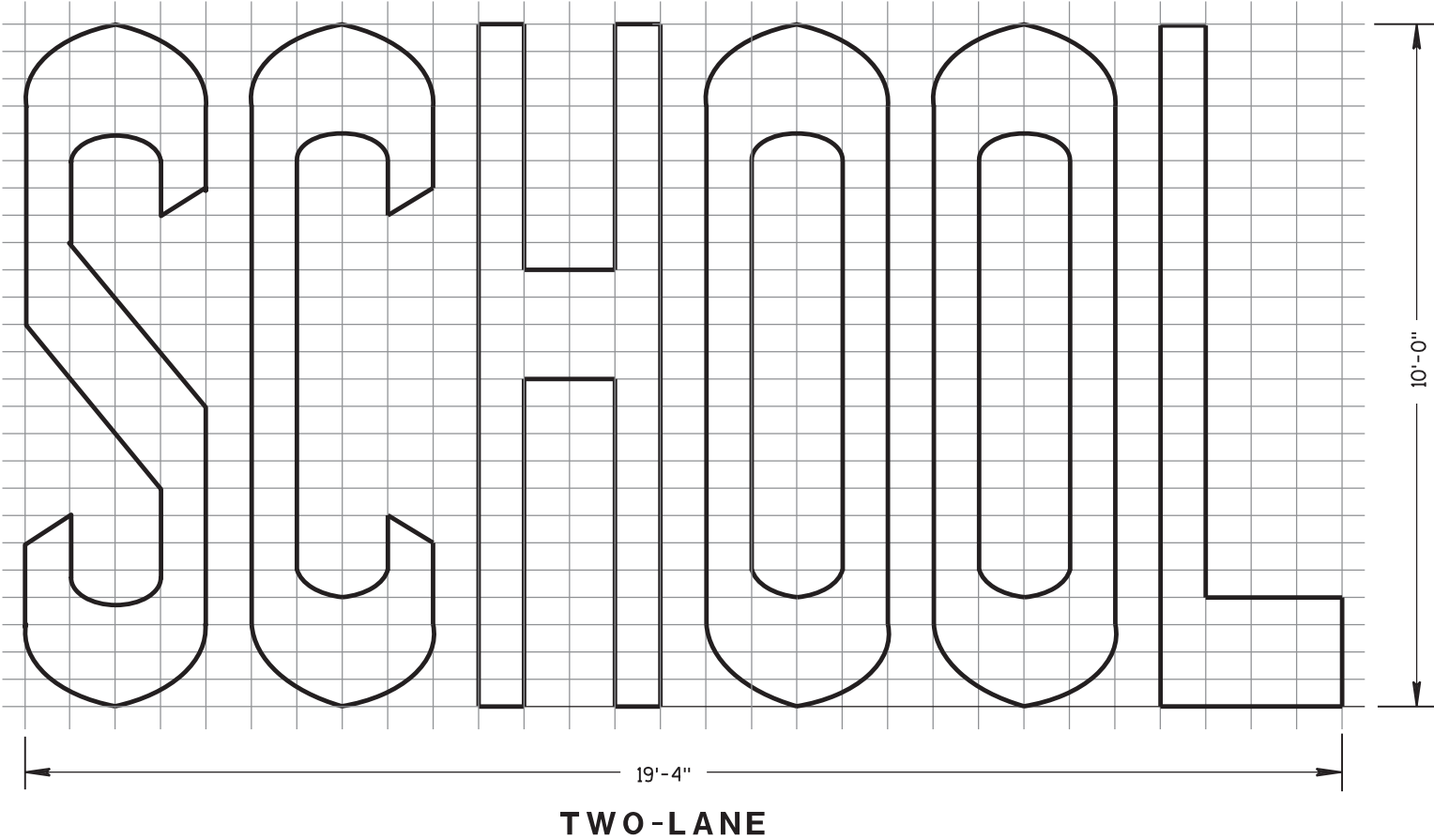
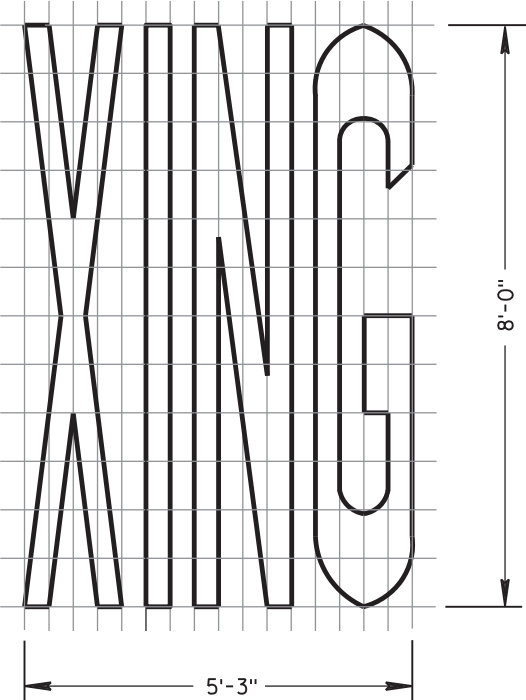
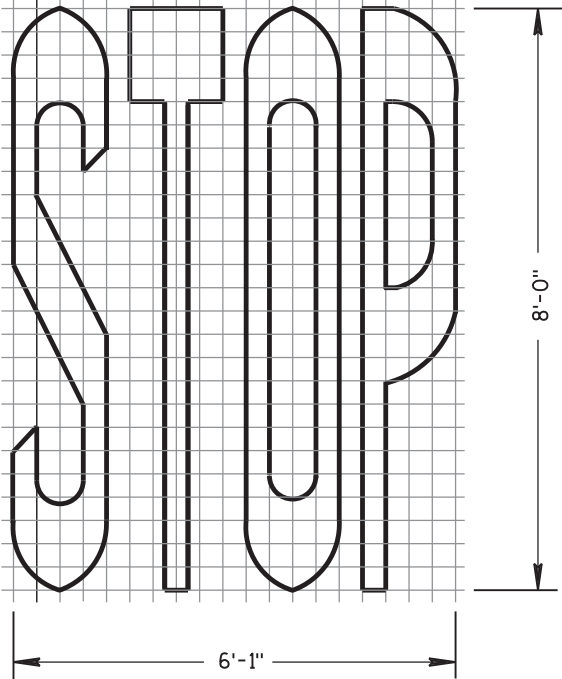
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

**APPROVED**

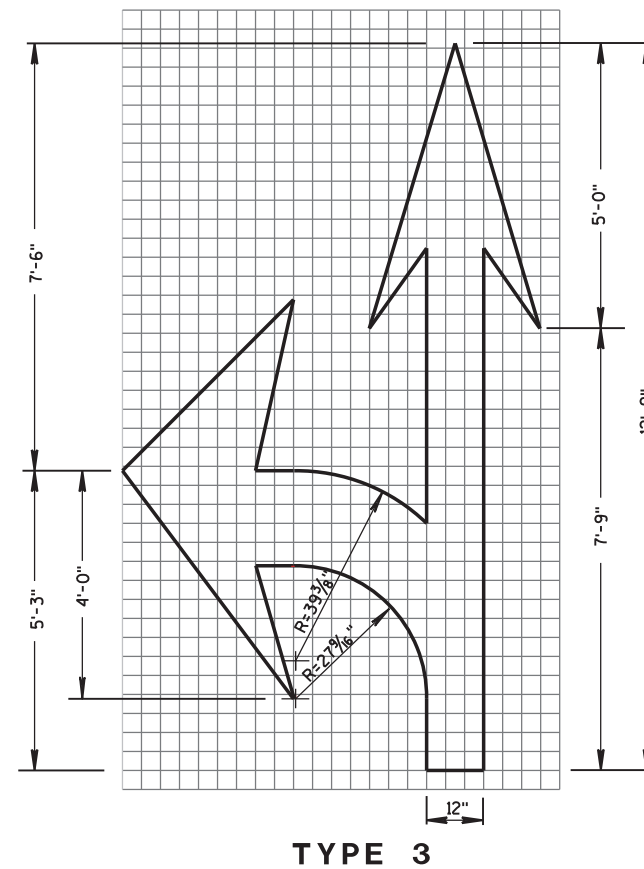
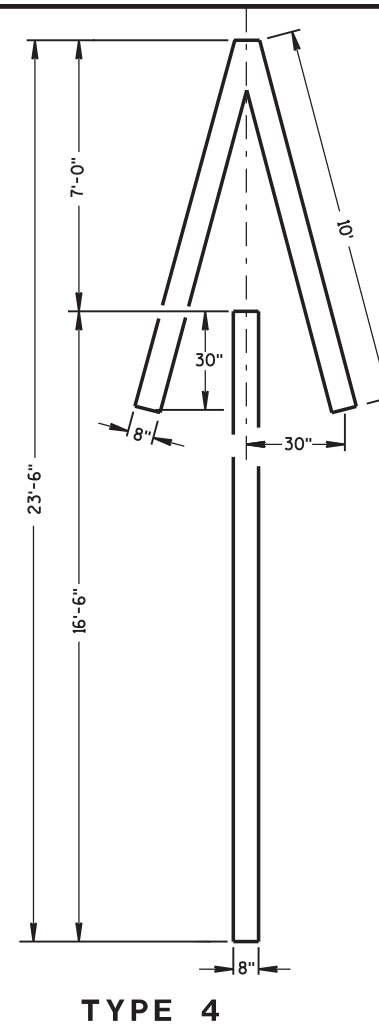
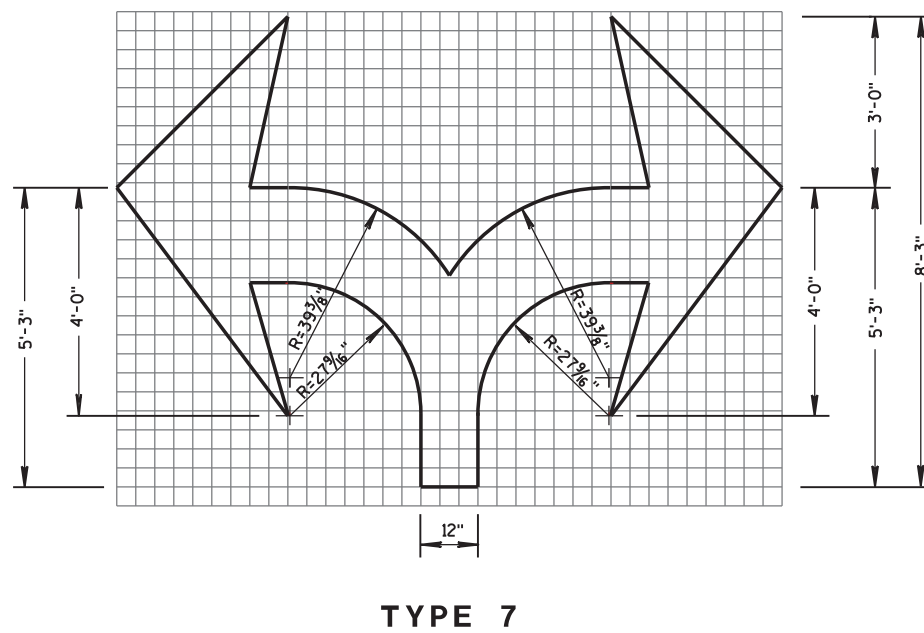
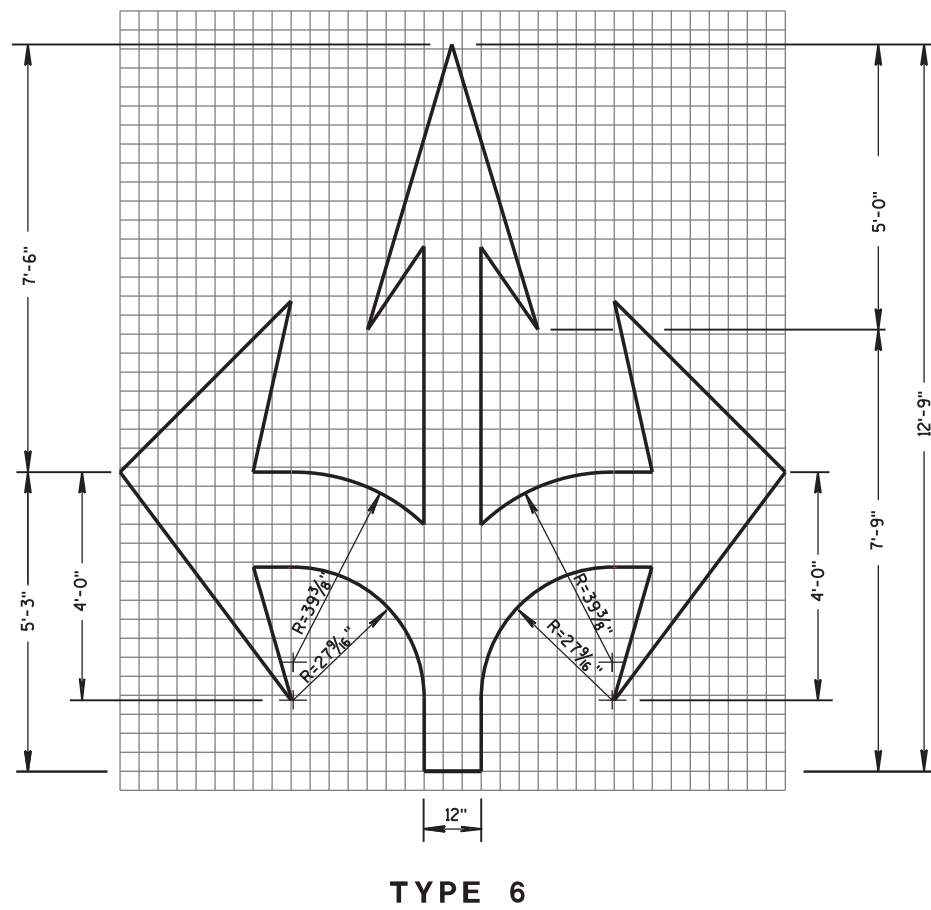
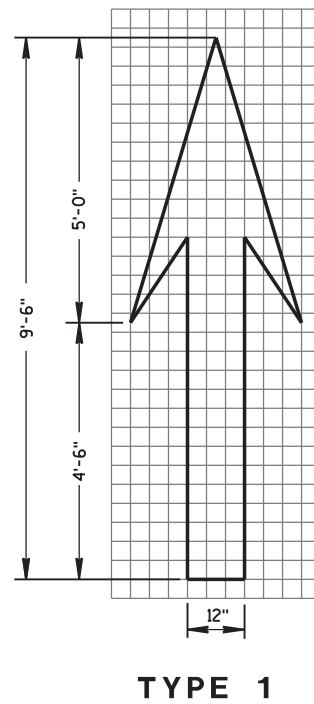
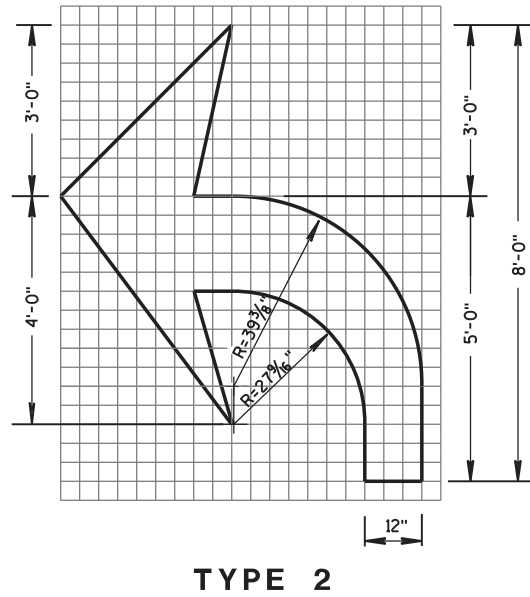
June 2017 /S/ Matthew R. Rauch  
DATE STATE SIGNING AND MARK 71 EER  
FHWA

GENERAL NOTES

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

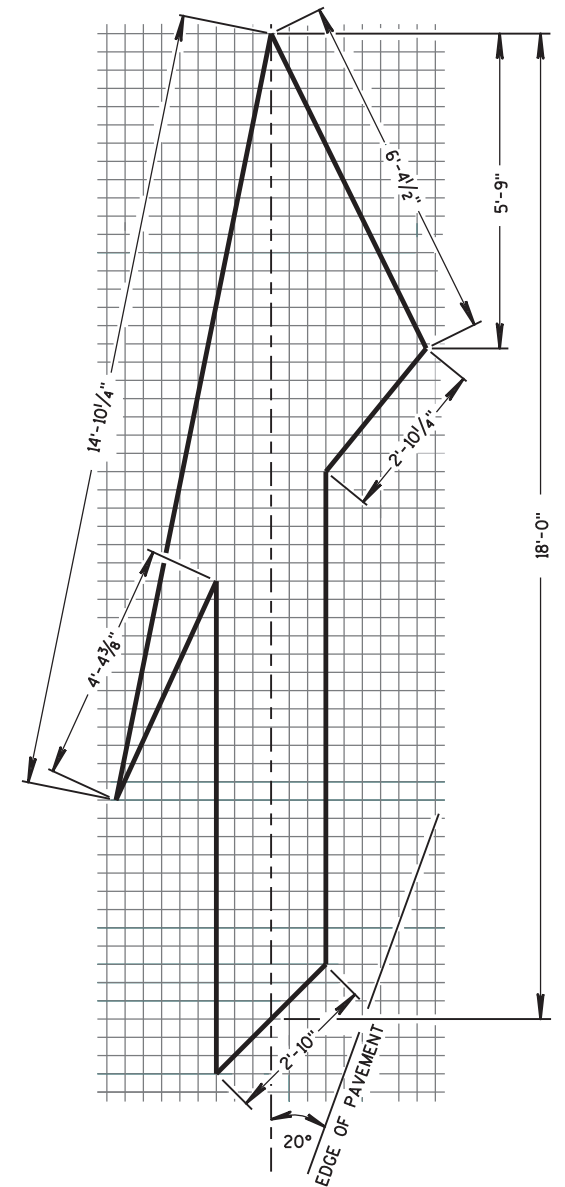


| PAVEMENT MARKING WORDS                             |                        |    |     |
|----------------------------------------------------|------------------------|----|-----|
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |                        |    |     |
| APPROVED                                           |                        |    |     |
| June 2017                                          | /S/ Matthew R. Rauch   |    |     |
| DATE                                               | STATE SIGNING AND MARK | 72 | EER |
| FHWA                                               |                        |    |     |



### GENERAL NOTES

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



### PAVEMENT MARKING ARROWS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

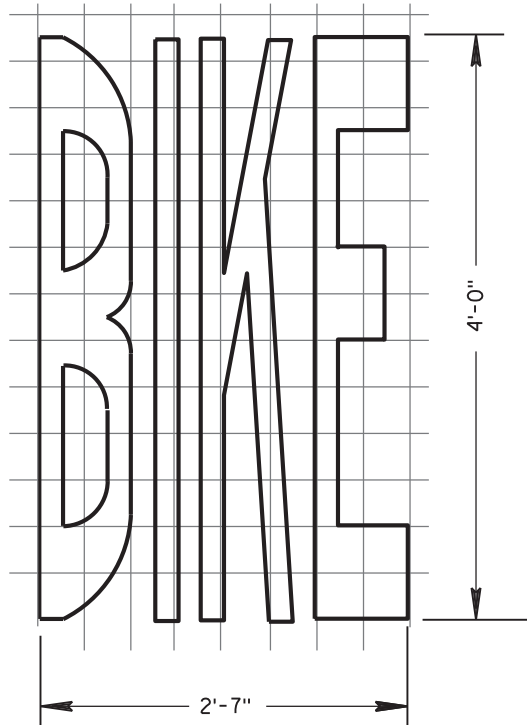
June 2017

DATE

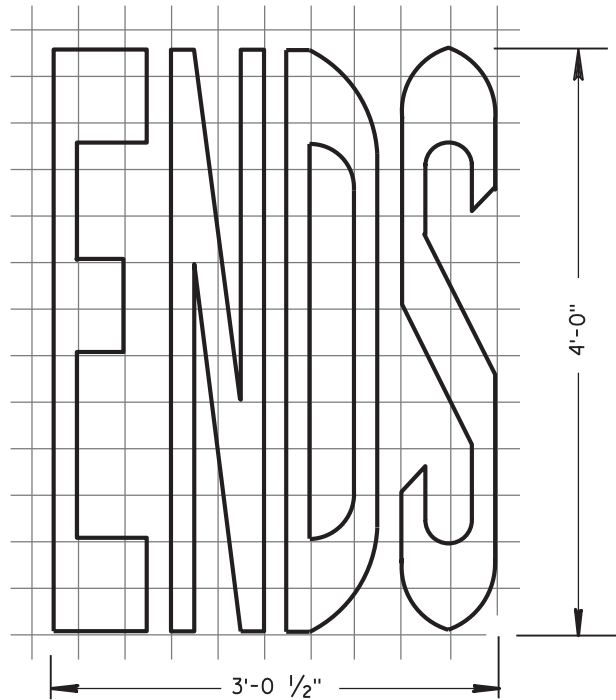
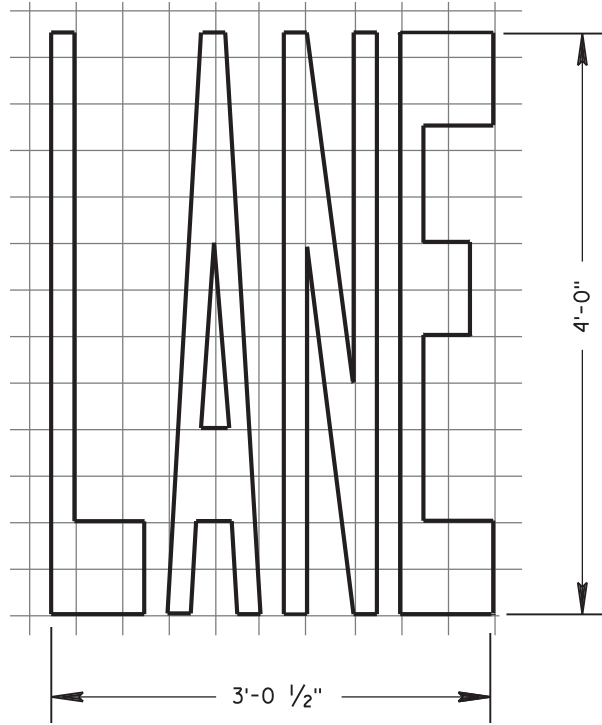
FHWA

/S/ Matthew R. Rauch  
STATE SIGNING AND MAR 73

VEER



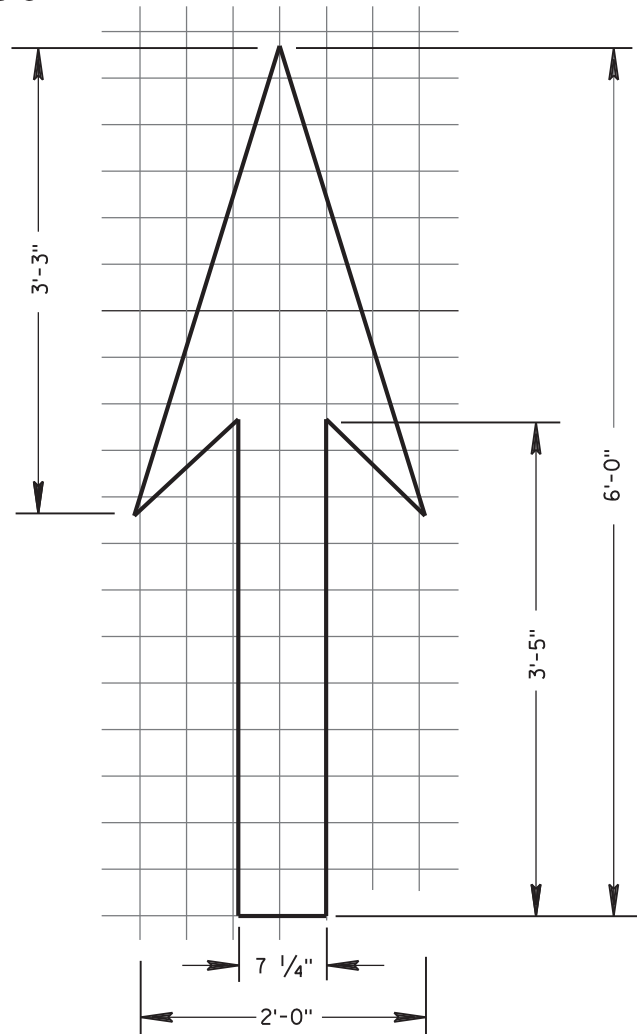
BIKE LANE WORDS



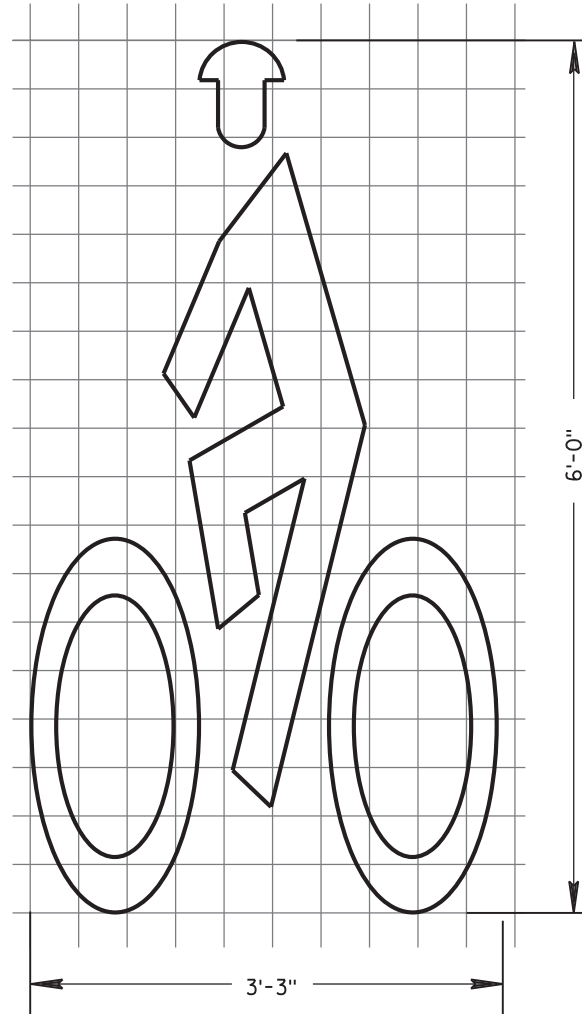
BIKE LANE WORDS

GENERAL NOTES

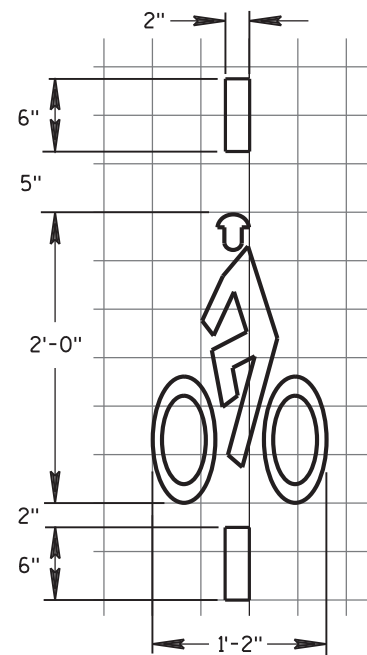
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



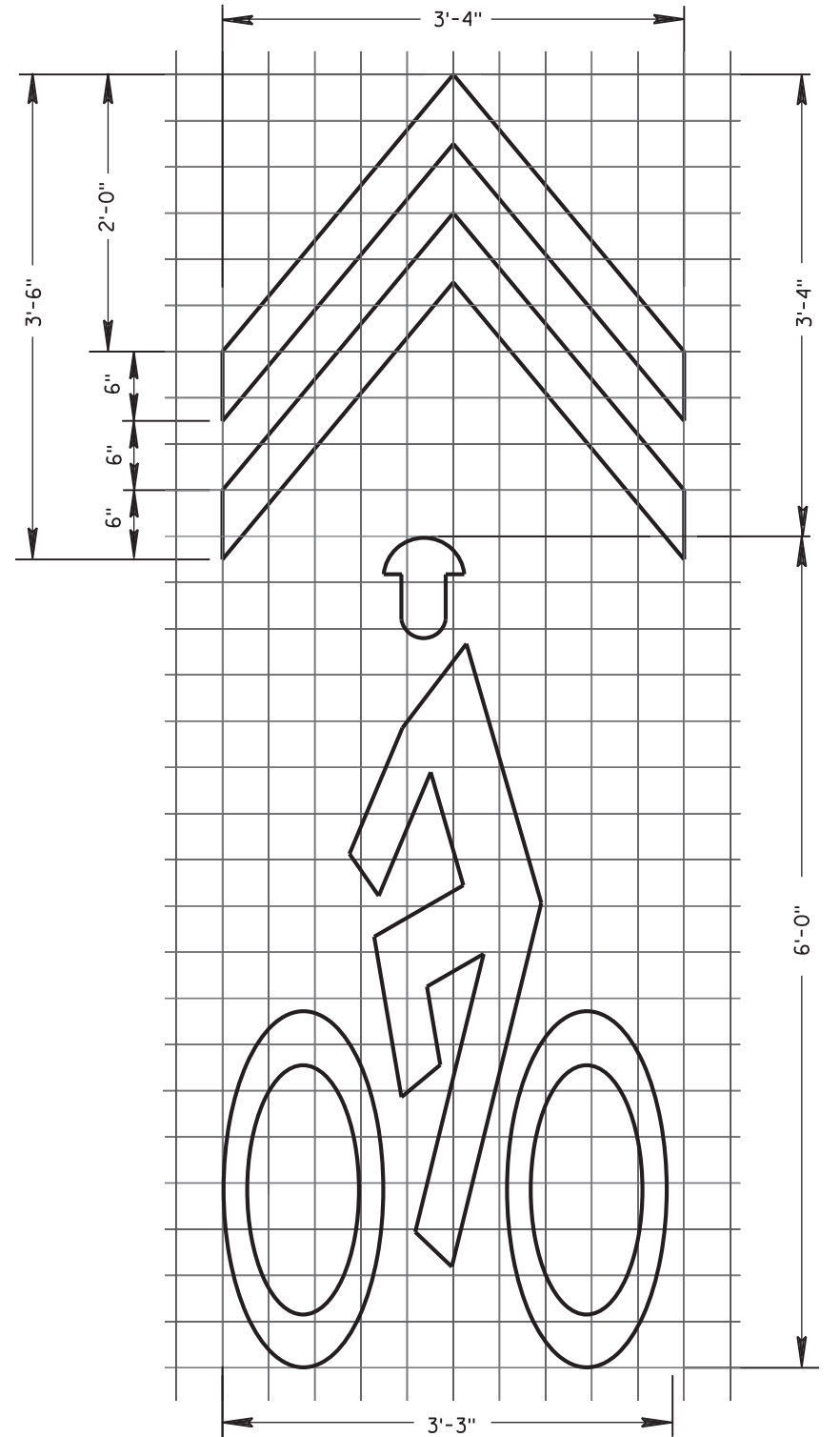
BIKE LANE ARROW



BIKE LANE SYMBOL



BICYCLE DETECTOR PAVEMENT MARKING

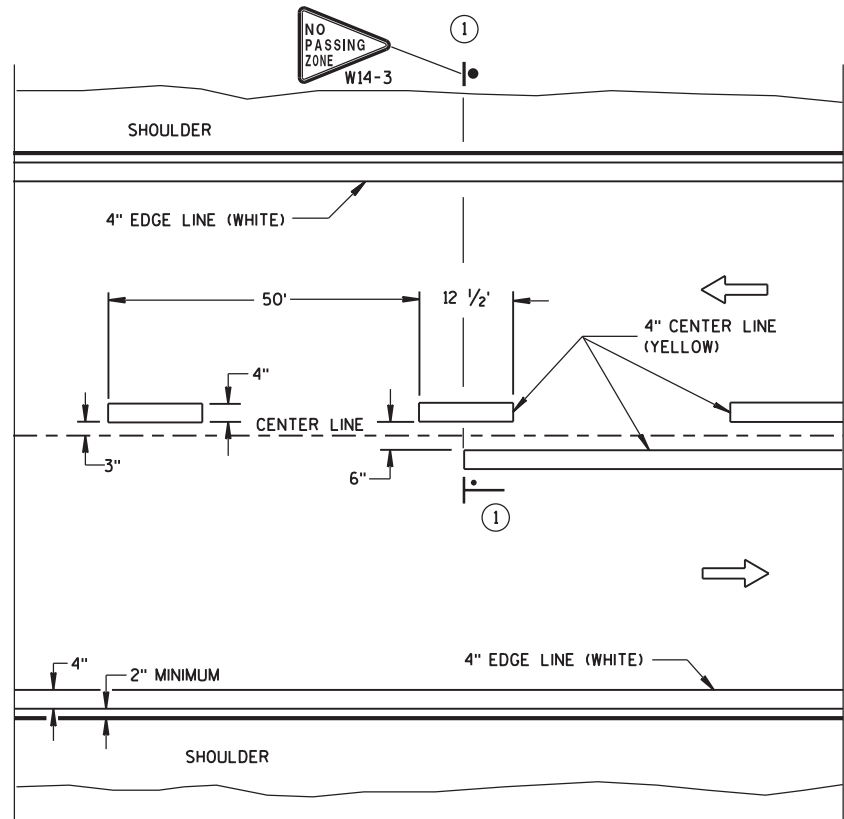


BIKE SYMBOL FOR SHARED LANE

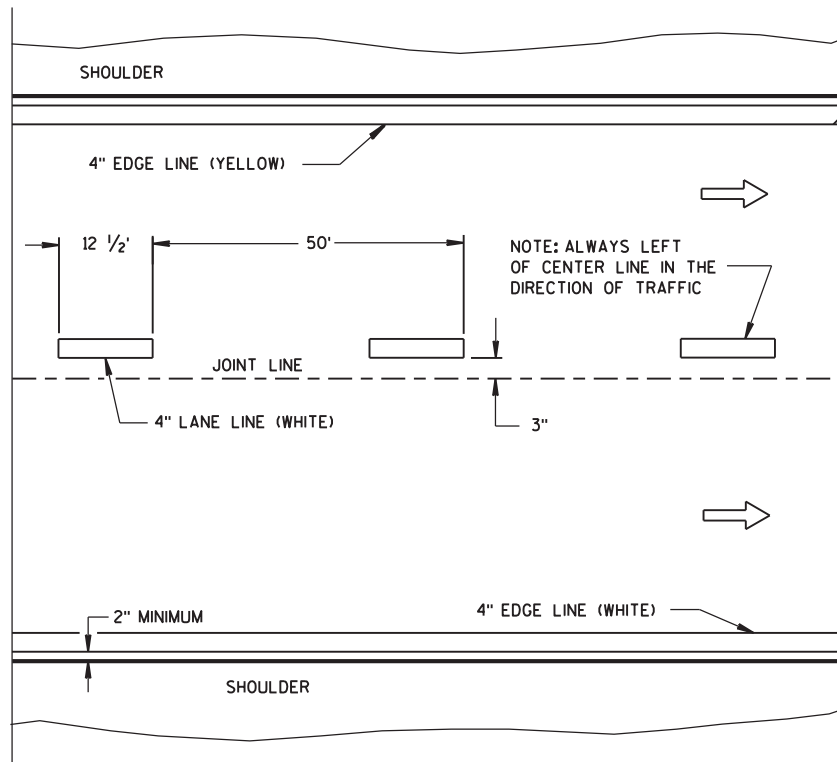
PAVEMENT MARKING FOR  
BIKE LANES

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
June 2017 /S/ Matthew R. Rauch  
DATE STATE SIGNING AND MARK 74 EER  
FHWA

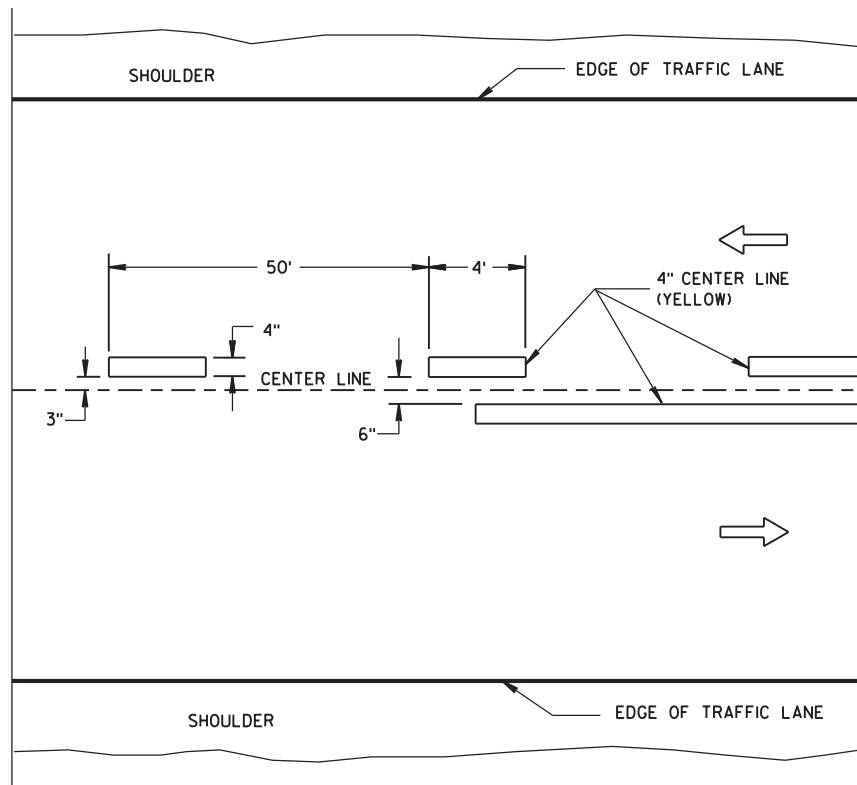


TWO WAY TRAFFIC

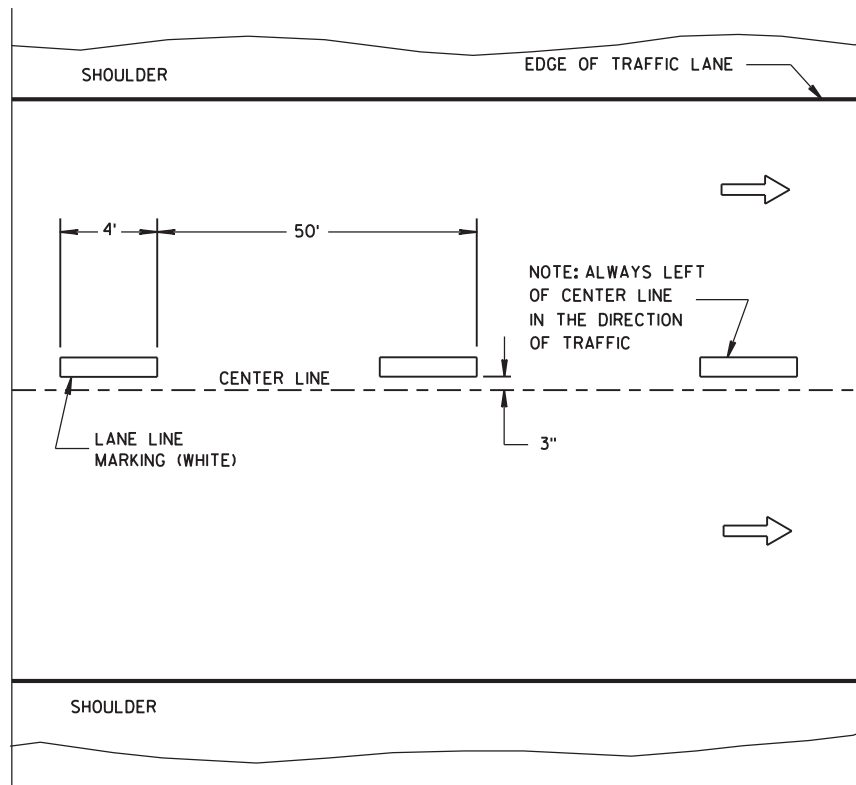


ONE WAY TRAFFIC

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 WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

LEGEND

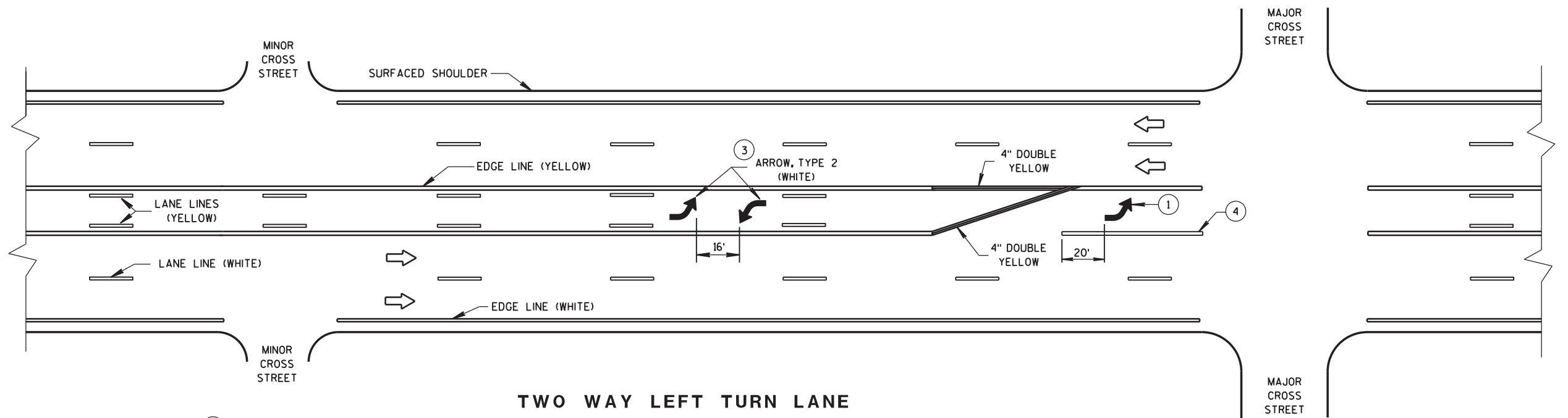
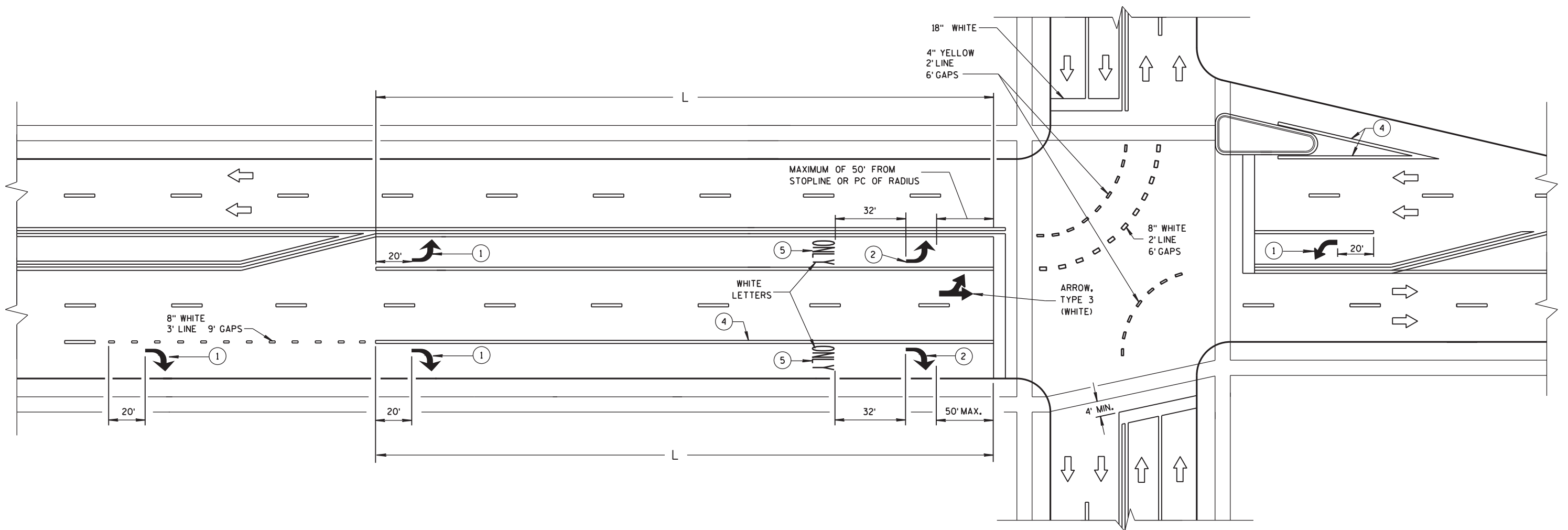
├── "T" MARKING

● POST MOUNTED SIGN

LONGITUDINAL MARKING  
(MAINLINE)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
June 2017 /S/ Matthew R. Rauch  
DATE STATE SIGNING AND MAP 75 ENGINEER  
FHWA



### GENERAL NOTES

- ① REQUIRED ARROW, TYPE 2 (WHITE).
- ② REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ 8" WHITE
- ⑤ REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

### TWO WAY LEFT TURN LANE

NOTE:  
ARROW SYMBOL (  )  
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

PAVEMENT MARKING  
(TURN LANES)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

LEGEND

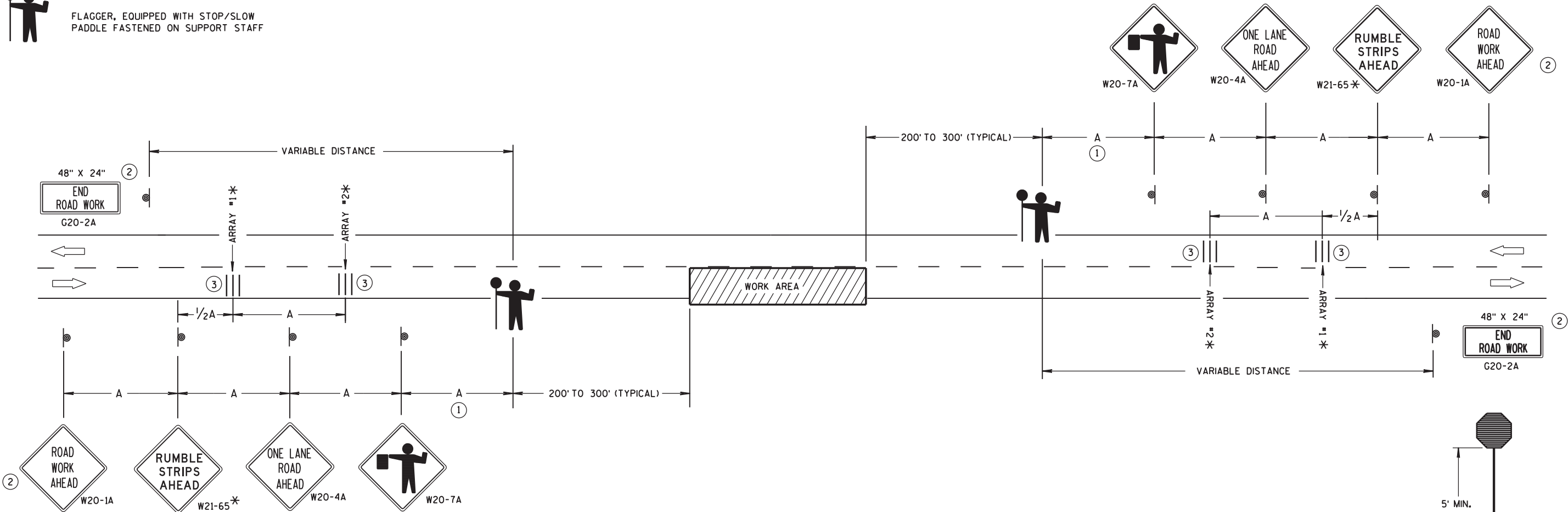
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

| SPEED LIMIT | SPACING A |
|-------------|-----------|
| 25-35 MPH   | 200'      |
| 35-40 MPH   | 350'      |
| 45-55 MPH   | 500'      |



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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

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

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

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

"W0" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

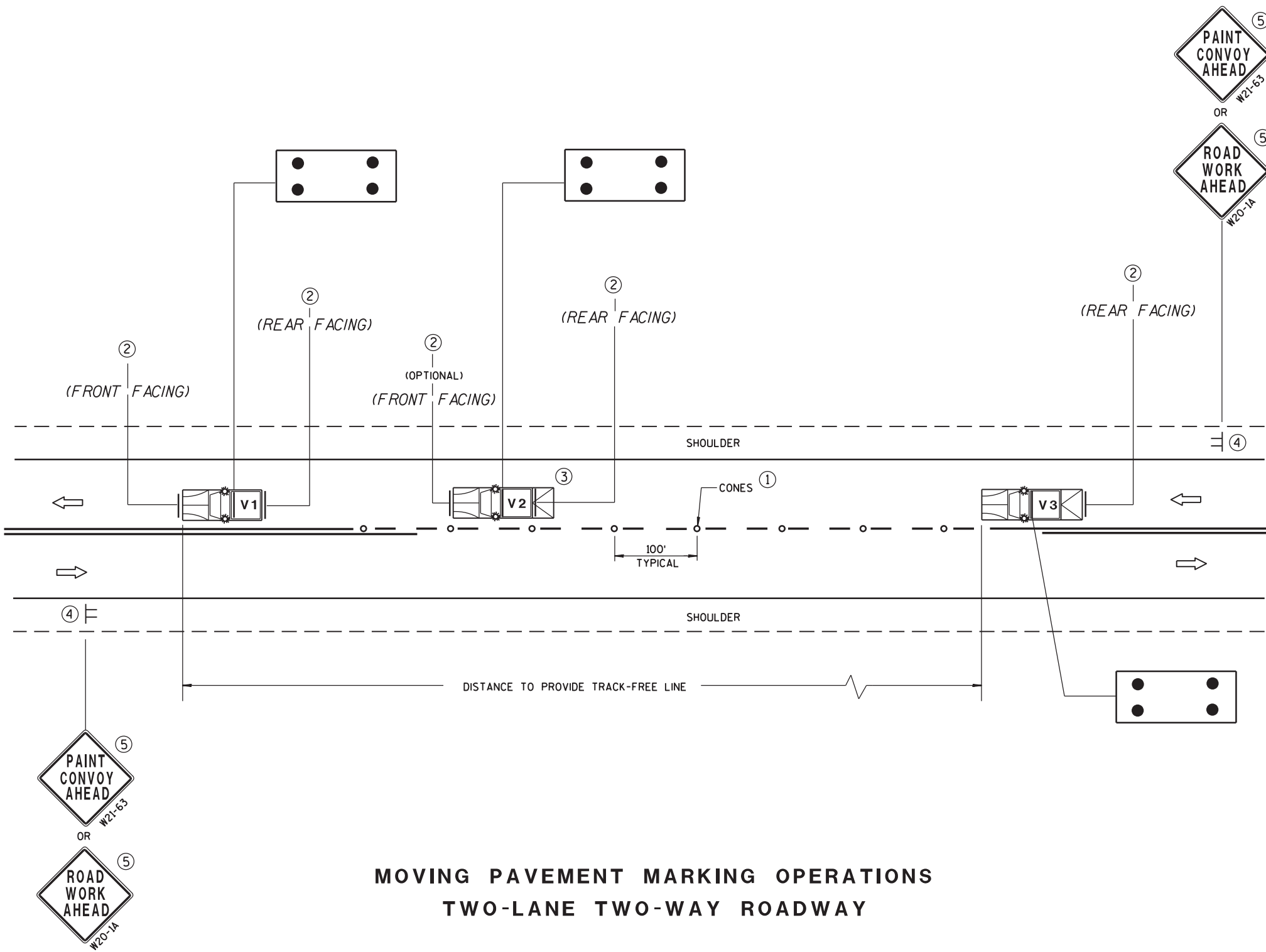
\* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- ① FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- ③ EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
June 2017 /S/ Andrew Heldtke  
DATE WORK ZONE ENC 77  
FHWA



MOVING PAVEMENT MARKING OPERATIONS  
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.  
 OR   
W21-64 W21-64
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- V1** LEAD VEHICLE
- V2** SHADOW VEHICLE
- V3** TRAIL VEHICLE WITH TMA
-  **TMA** TRUCK-MOUNTED ATTENUATOR
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  CONES
-  FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING  
OPERATION  
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
June 2016 /S/ Peter Amakobe Atepe  
DATE STATEWIDE WORK ZONE SAFETY ENGINE  
FHWA

## GENERAL NOTES

- ① DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- ② MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
- ③ DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
- ④ IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
- ⑤ BIKE ACCOMODATION FOR CONCRETE PAVEMENT IS 5 FEET WIDE. BIKE ACCOMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4 FEET. USE 5 FEET AT  $\geq 45$  MPH.
- ⑥ OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FEET WIDE TURN LANE).
- ⑦ REFER TO CONTRACT PLANS FOR LANE WIDTH.

➡ DIRECTION OF TRAVEL

### DESIGNATED BICYCLE LANE NO PARKING

### 4 LANE DIVIDED WITHOUT ISLAND

### 4 LANE DIVIDED WITH ISLAND

### BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS (4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

#### BICYCLE LANE MARKING

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

12-2016

DATE

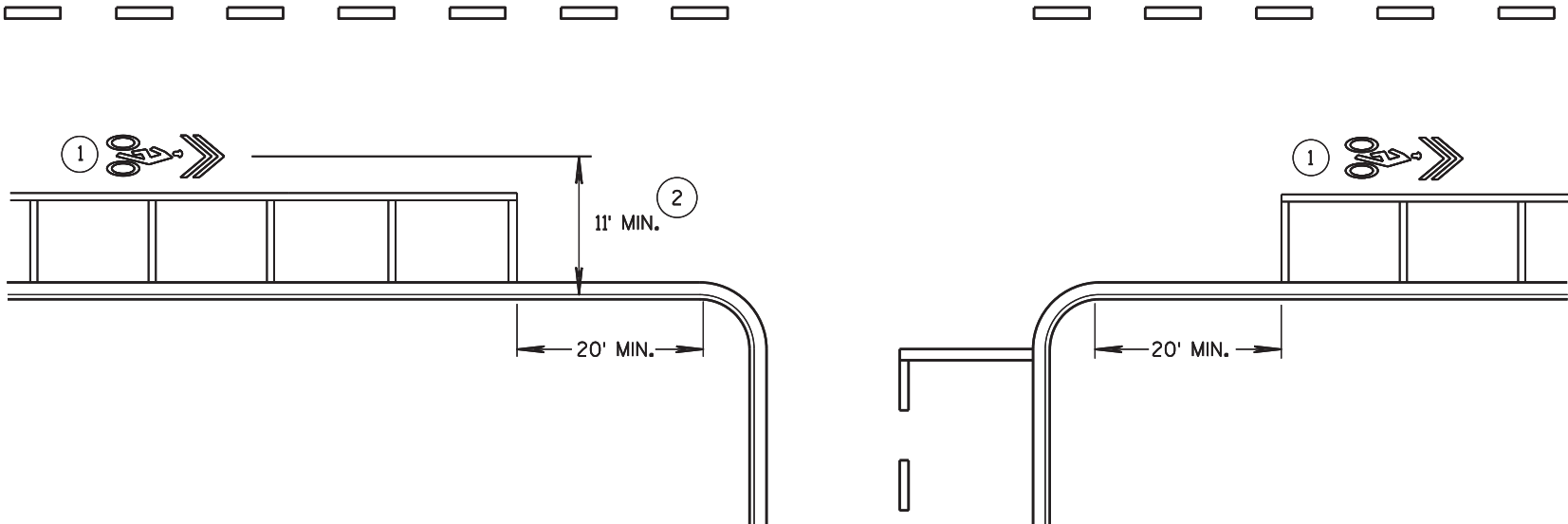
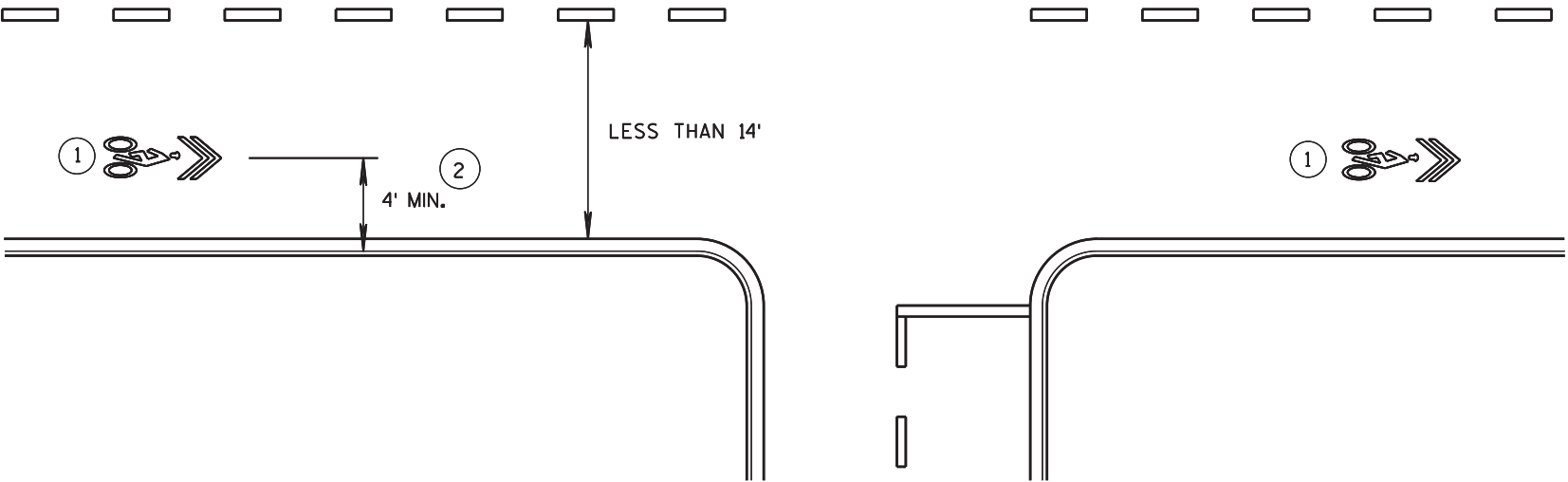
FHWA

/S/ Matthew R. Rauch  
STATE SIGNING AND MAP 79

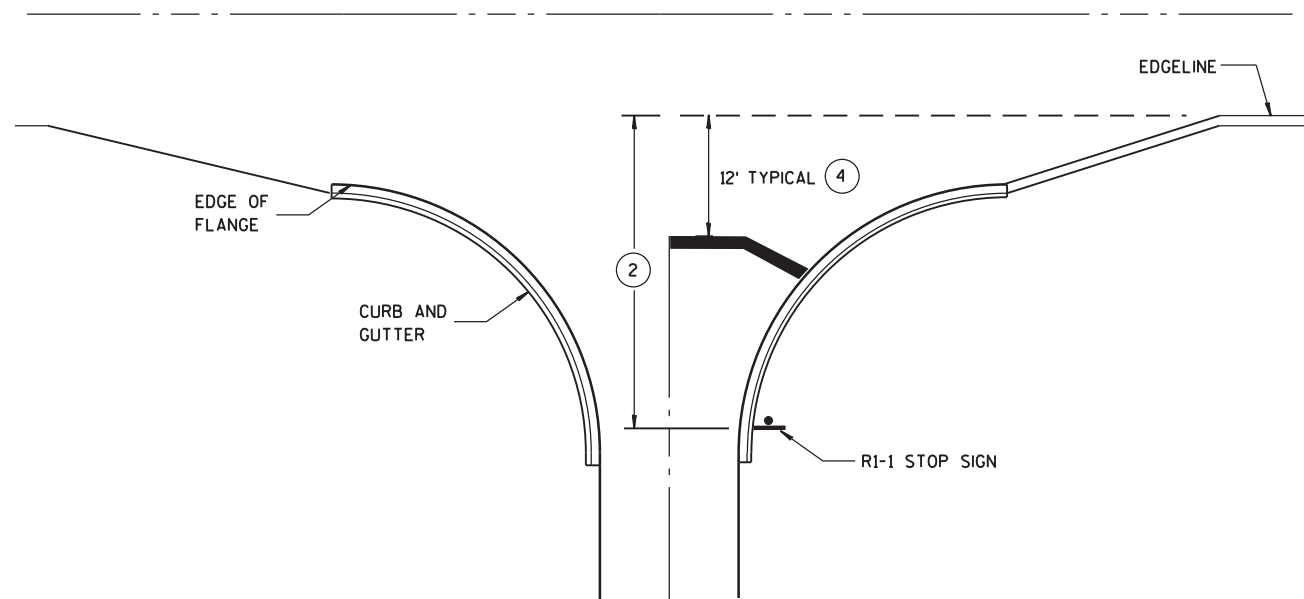
NEER

GENERAL NOTES

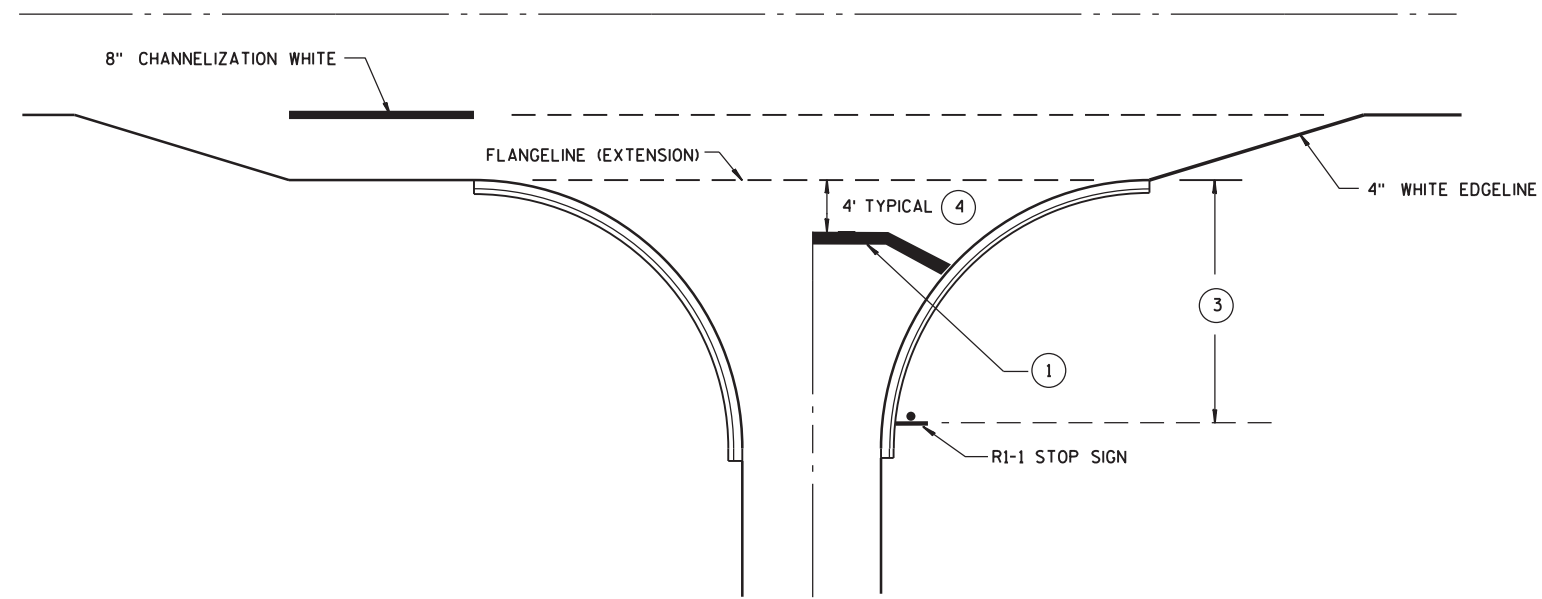
- ① MINIMUM OF ONE PER BLOCK, MAXIMUM OF 250 FEET.
- ② OR TO EDGE OF PAVEMENT WITHOUT CURB.



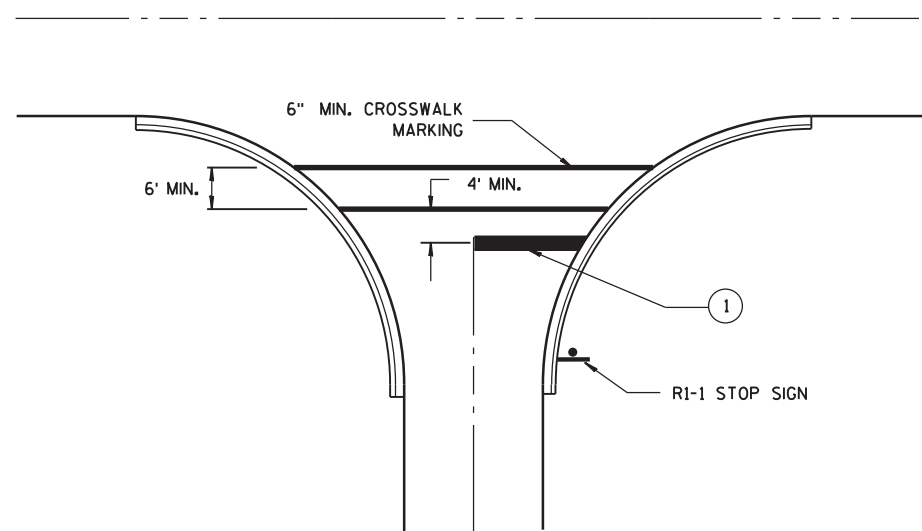
|                                                       |                               |  |  |
|-------------------------------------------------------|-------------------------------|--|--|
| PAVEMENT MARKING FOR<br>SHARED LANE<br>35 MPH OR LESS |                               |  |  |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION    |                               |  |  |
| APPROVED                                              |                               |  |  |
| 12-2016                                               | /S/ Matthew R. Rauch          |  |  |
| DATE                                                  | STATE SIGNING AND MARK 80 EER |  |  |
| FHWA                                                  |                               |  |  |



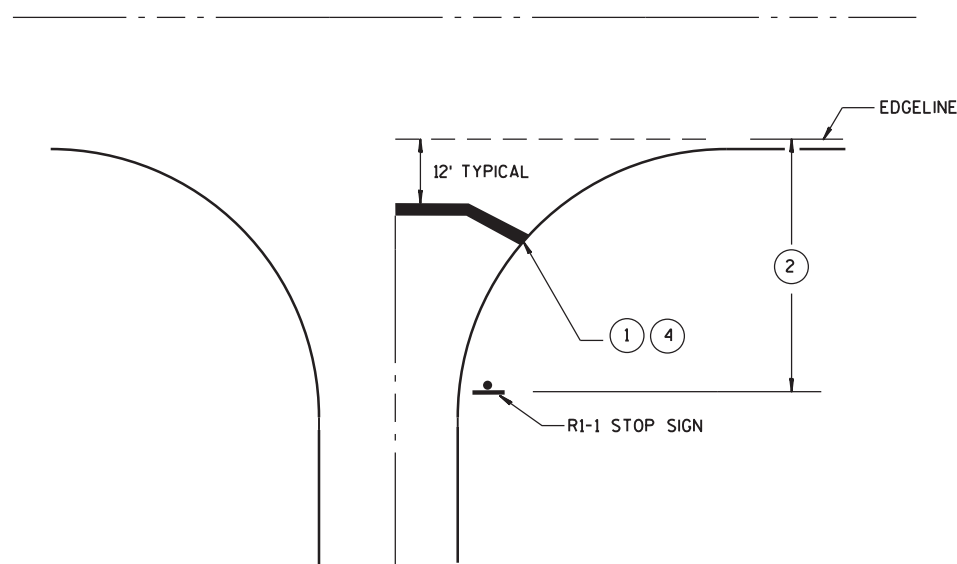
**TYPICAL STOP LINE PAVEMENT MARKING  
WITH CURB AND GUTTER**



**TYPICAL STOP LINE PAVEMENT MARKING  
FOR SIDEROADS WITH RIGHT TURN LANE**



**TYPICAL STOP LINE PAVEMENT MARKING  
FOR SIDEROADS WITH CROSSWALK MARKING**



**TYPICAL STOP LINE PAVEMENT MARKING  
WITHOUT CURB AND GUTTER**

### GENERAL NOTES

- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGE LINE THAN NO STOP LINE IS REQUIRED.
- ③ IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- ④ MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

### STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

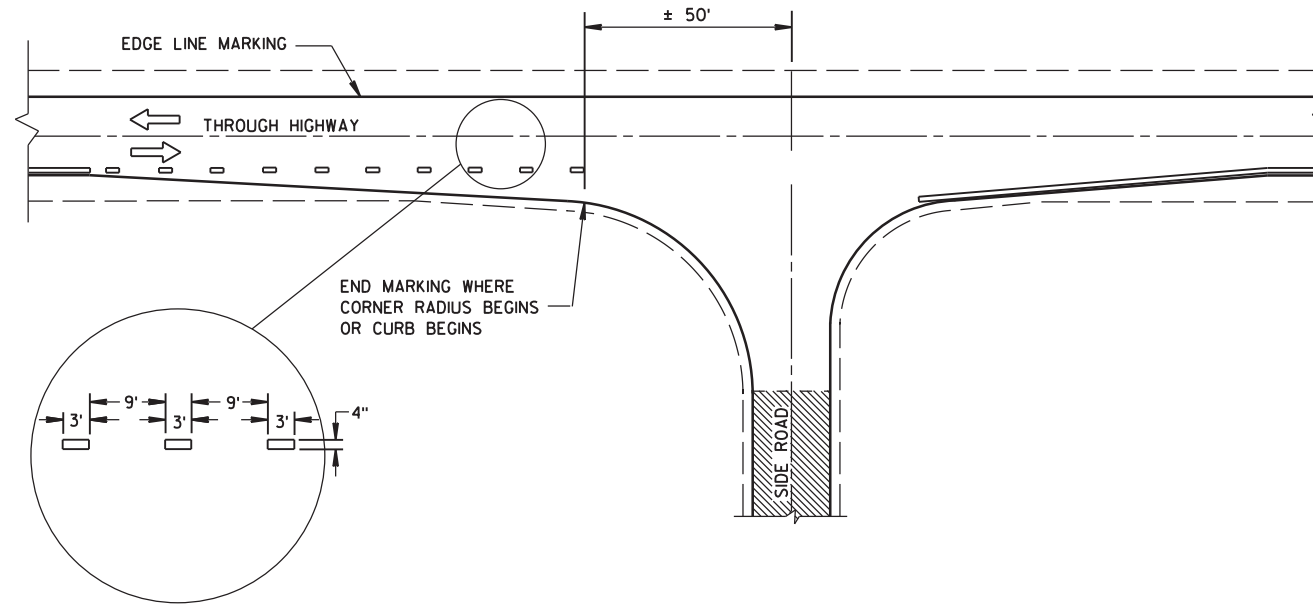
APPROVED

4-18-2016  
DATE

FHWA

/S/ Matthew R. Rauch  
STATE SIGNING AND MAR 81

JEER



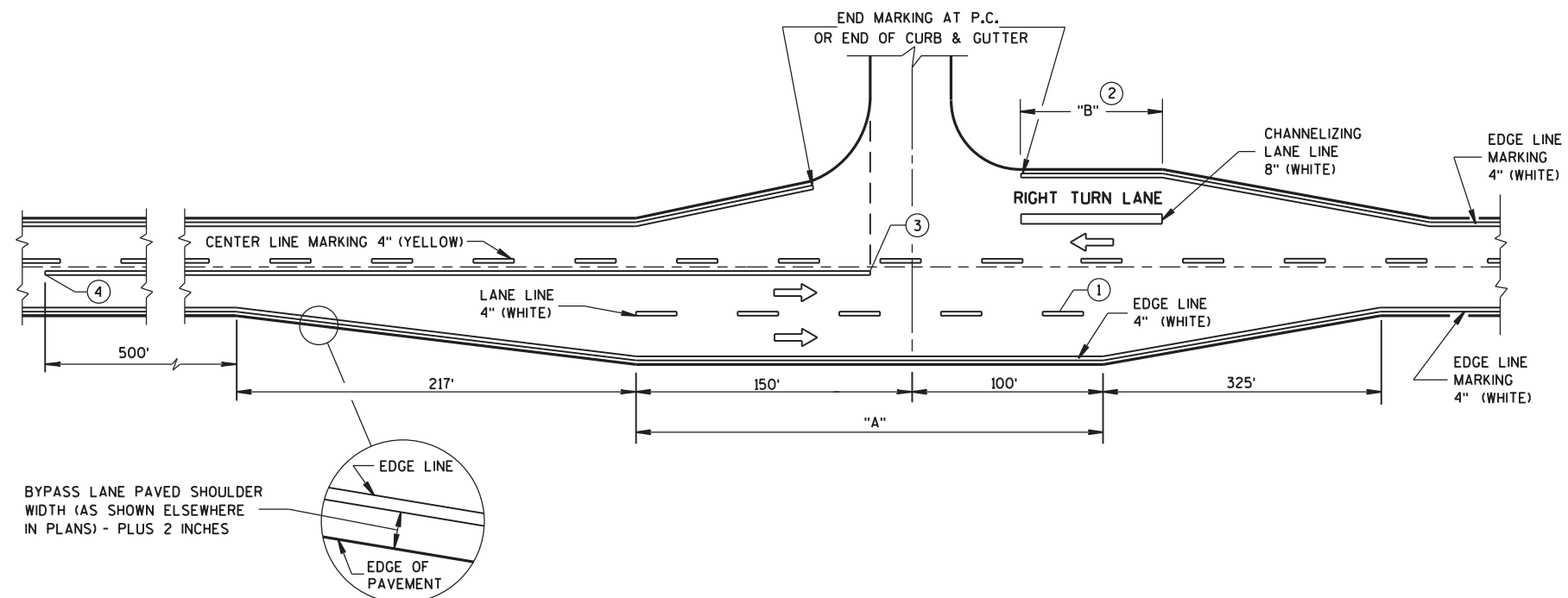
**MINOR INTERSECTION WITHOUT CURBS**

## GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (  ) SHOWS DIRECTION OF TRAVEL



**MAJOR INTERSECTIONS**  
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

**PAVEMENT MARKING  
(INTERSECTIONS)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

[illegible]

## 6

4" MINIMUM  
5" DESIRABLE

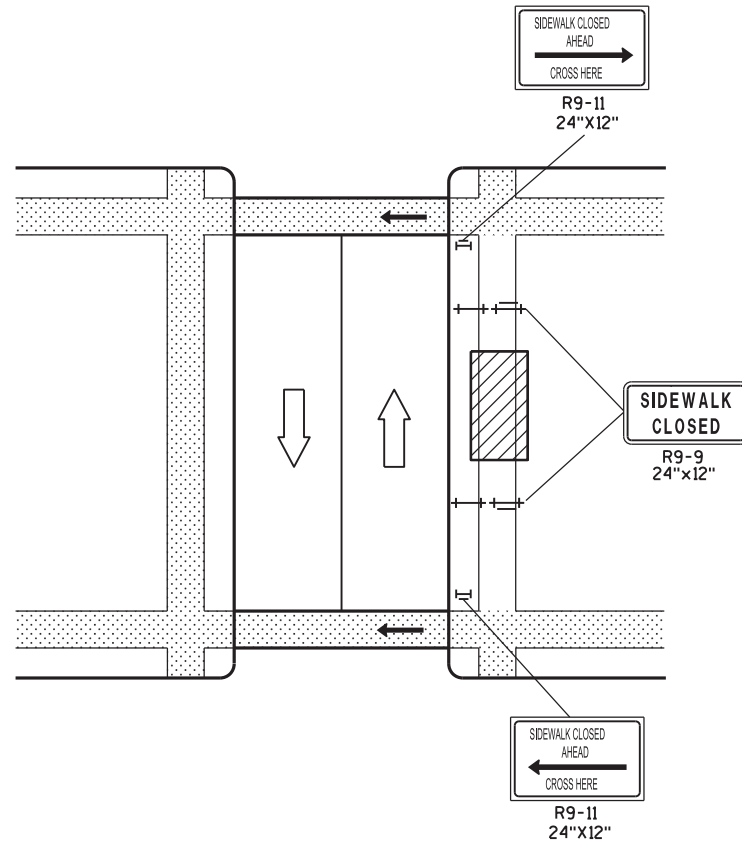
**SIDEWALK  
CLOSED**

R9-9  
24"x12"

1

TEMPORARY  
PEDESTRIAN  
ACCESS. SEE  
SDD 15 D 30  
SHEET "C".

**S.D.D. 15 D 30-3a**



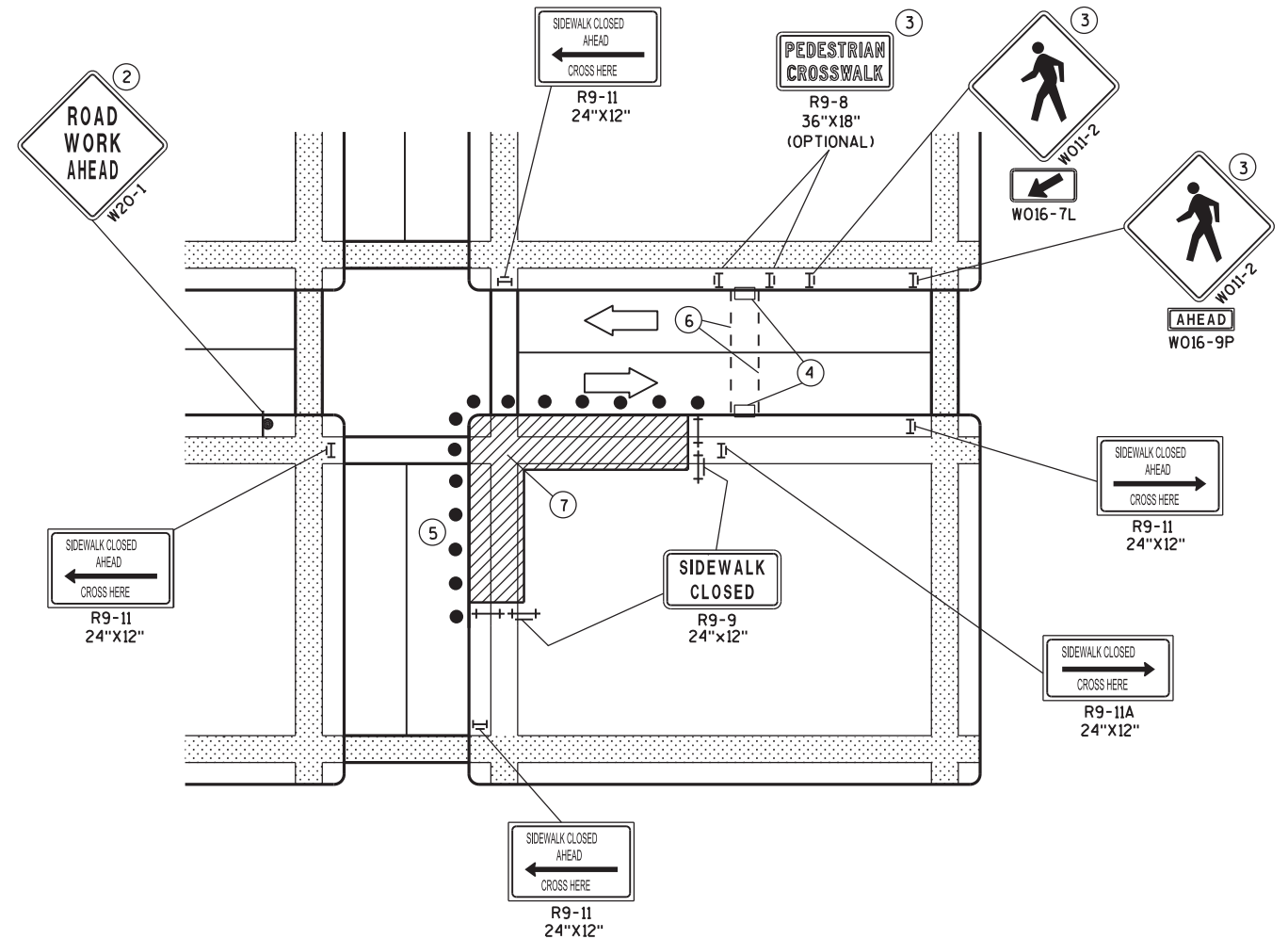
## GENERAL NOTES

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

- ① IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.
- ② "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
- ③ IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
- ④ TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".
- ⑤ DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- ⑥ TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- ⑦ LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

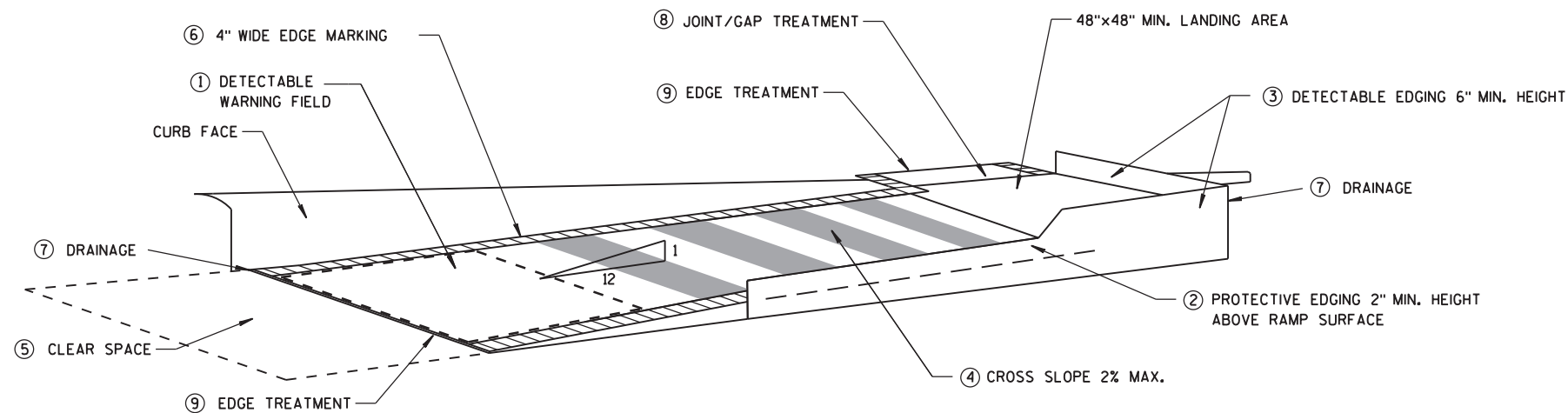


## 6

|                                                                                       |                                                                                                                |                                                                                       |                         |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------|
|  | SIGN ON PERMANENT<br>SUPPORT                                                                                   |  | DIRECTION OF<br>TRAFFIC |
|  | UNDER PEDESTRIAN<br>TRAFFIC                                                                                    |  | TRAFFIC CONTROL<br>DRUM |
|  | WORK AREA                                                                                                      |                                                                                       |                         |
|  | PEDESTRIAN<br>CHANNELIZATION<br>DEVICE                                                                         |                                                                                       |                         |
|  | TYPE II BARRICADE<br>WITH/WITHOUT SIGN (ALL<br>WITH ONE WARNING<br>LIGHT, TYPE A, LOW-<br>INTENSITY FLASHING)  |                                                                                       |                         |
|  | TYPE III BARRICADE<br>WITH/WITHOUT SIGN (ALL<br>WITH ONE WARNING<br>LIGHT, TYPE A, LOW-<br>INTENSITY FLASHING) |                                                                                       |                         |

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION<sup>83</sup>

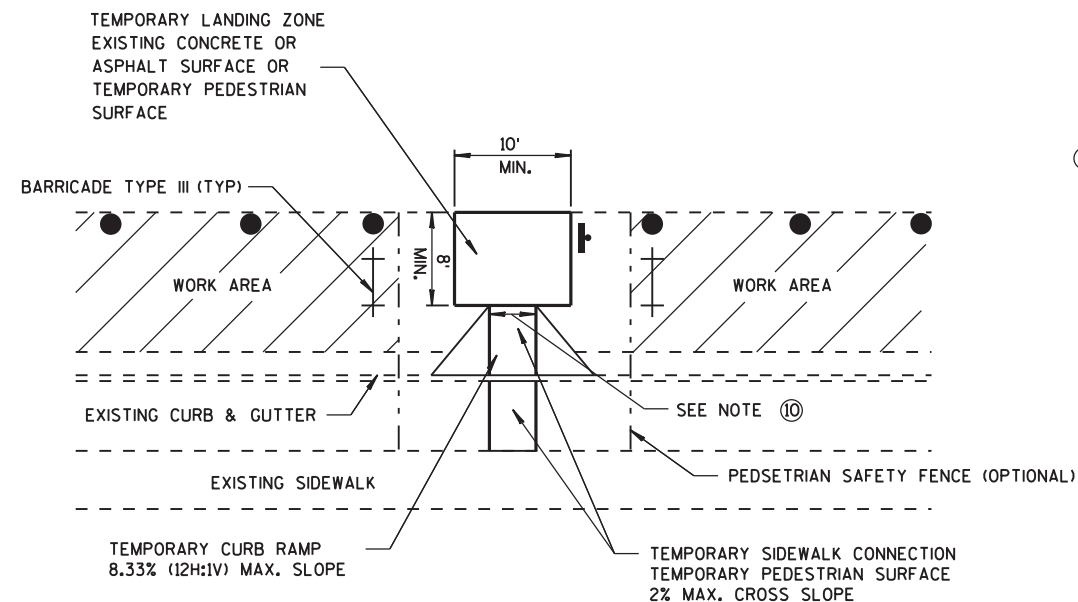
**S.D.D. 15 D 30-3a**



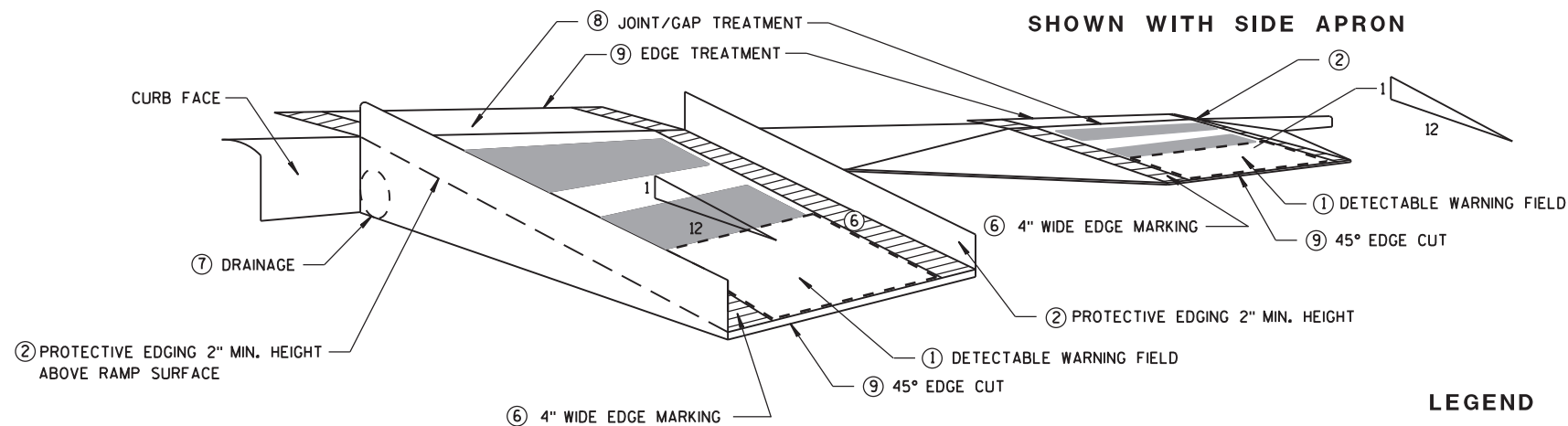
TEMPORARY CURB RAMP  
PARALLEL TO CURB

GENERAL NOTES

- NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.  
ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY  
TO MAINTAIN PEDESTRIAN ACCESS.
- 1 CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".
  - 2 PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
  - 3 DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
  - 4 CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
  - 5 CLEAR SPACE OF 48"x48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
  - 6 THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
  - 7 DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
  - 8 LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
  - 9 CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".
  - 10 5' WIDE MIN. WITH PEDESTRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE

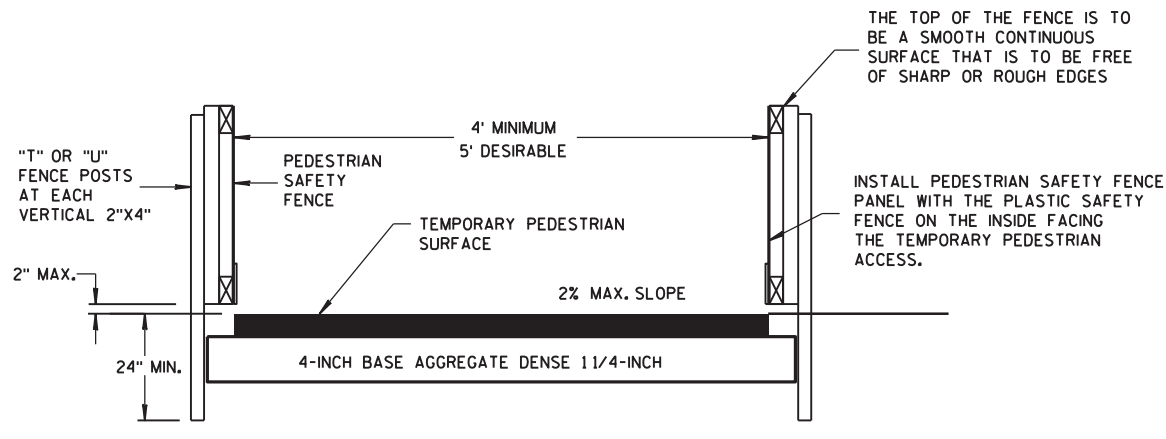
TEMPORARY CURB RAMP  
PERPENDICULAR TO CURB

SHOWN WITH SIDE APRON

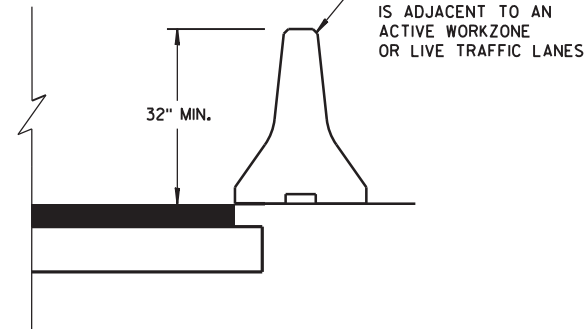
LEGEND

|  |                      |
|--|----------------------|
|  | WORK AREA            |
|  | TYPE III BARRICADE   |
|  | TRAFFIC CONTROL DRUM |

|                                                                         |                                                                   |
|-------------------------------------------------------------------------|-------------------------------------------------------------------|
| TRAFFIC CONTROL,<br>TEMPORARY ADA COMPLIANT<br>PEDESTRIAN ACCOMMODATION |                                                                   |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION                      |                                                                   |
| APPROVED<br>June 2016<br>DATE                                           | /S/ Peter Amakobe Atepe<br>STATEWIDE WORK ZONE<br>SAFETY ENGINEER |
| FHWA                                                                    |                                                                   |

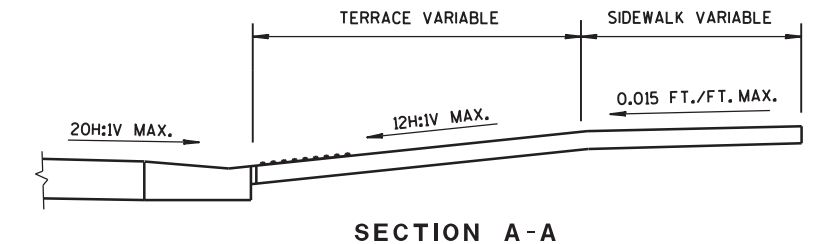


TEMPORARY PEDESTRIAN ACCESS

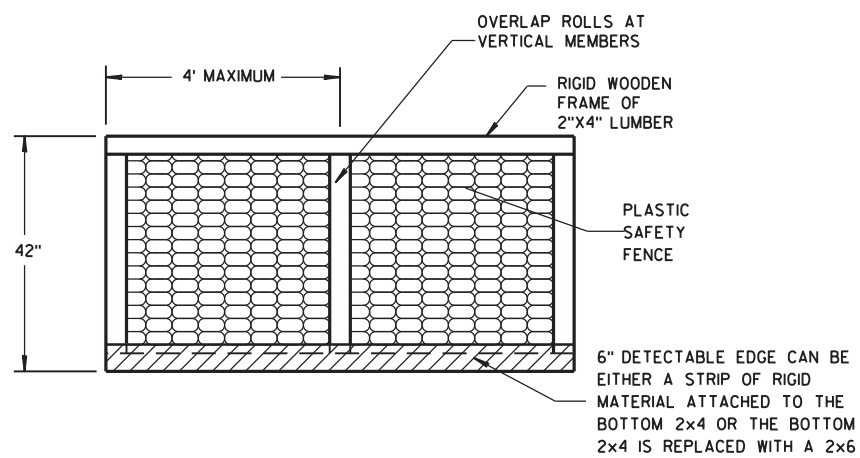


GENERAL NOTES

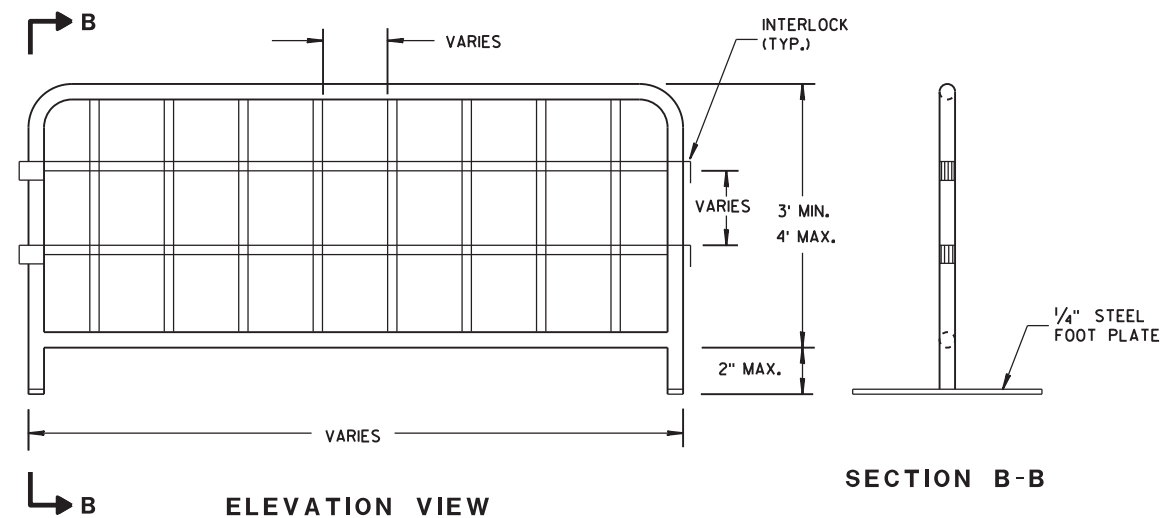
- ① INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



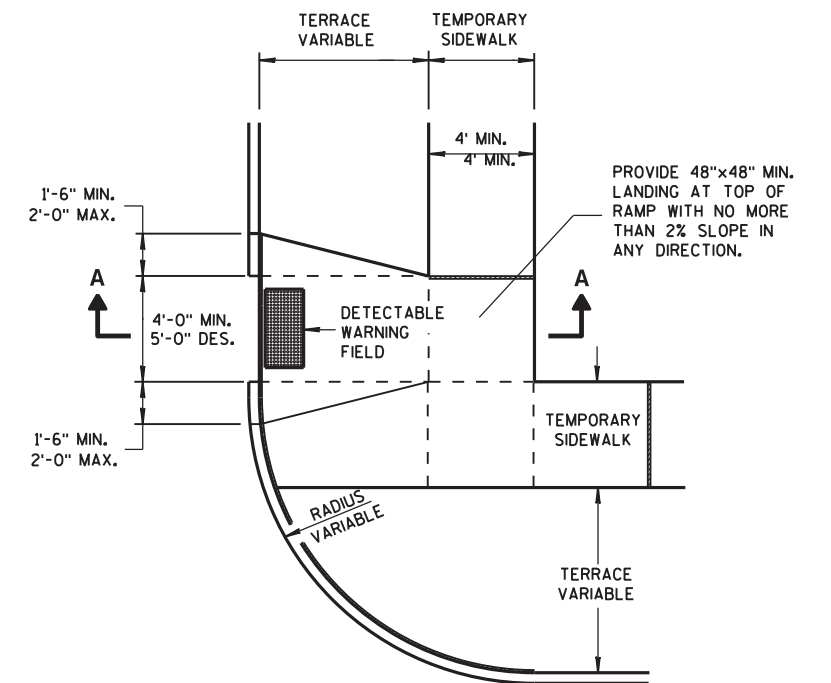
SECTION A-A



PEDESTRIAN SAFETY FENCE



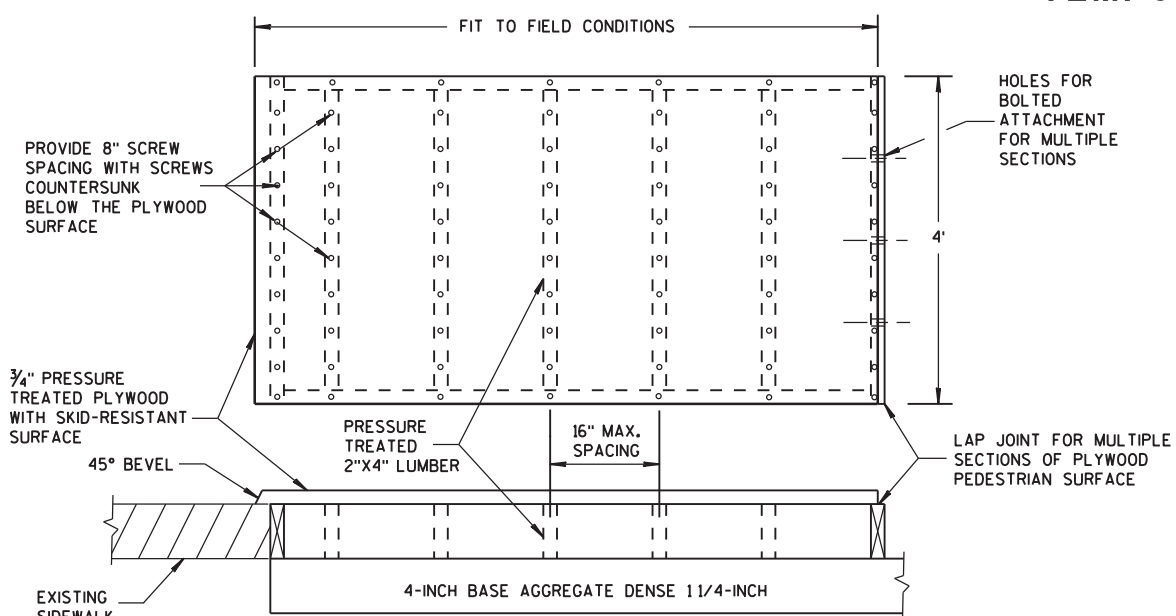
TEMPORARY PEDESTRIAN STEEL BARRICADE



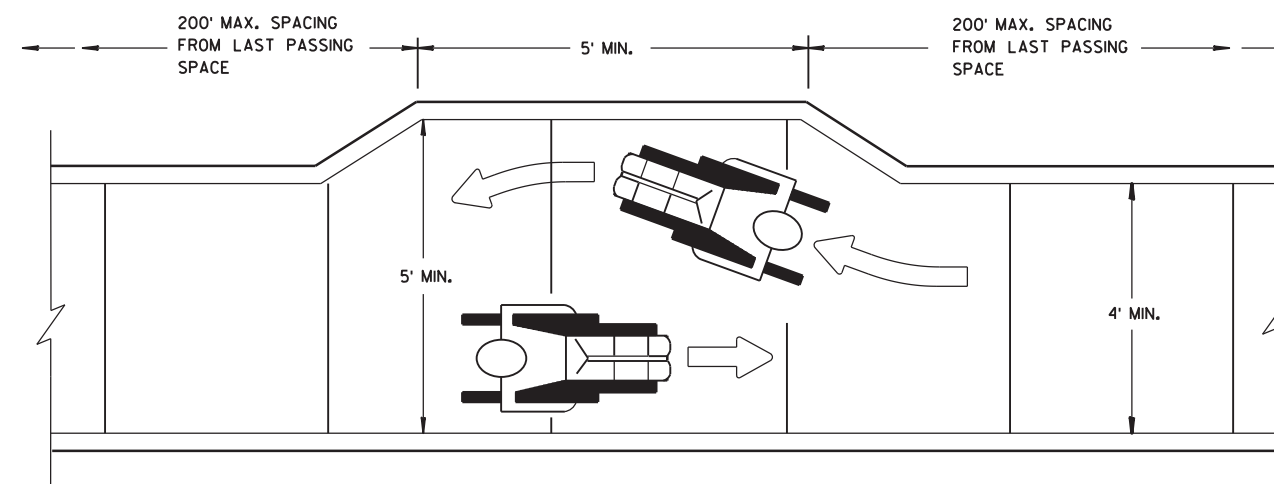
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



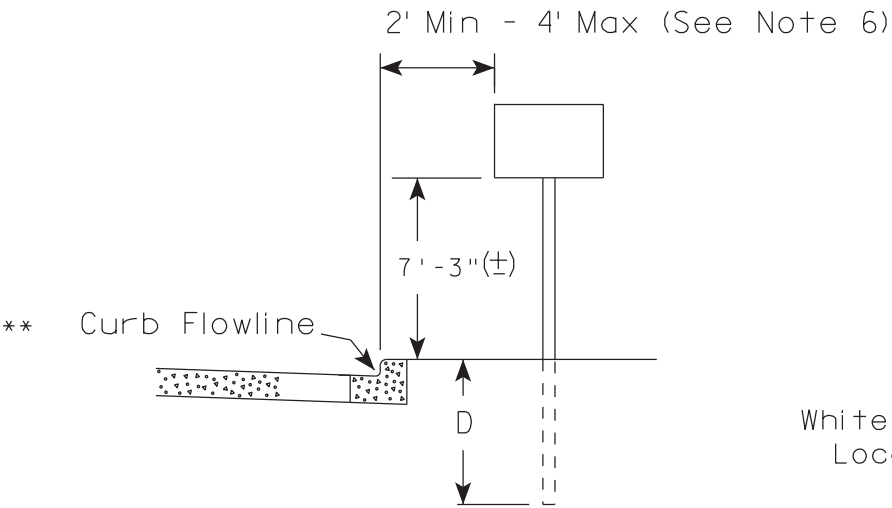
TEMPORARY PEDESTRIAN SURFACE PLYWOOD



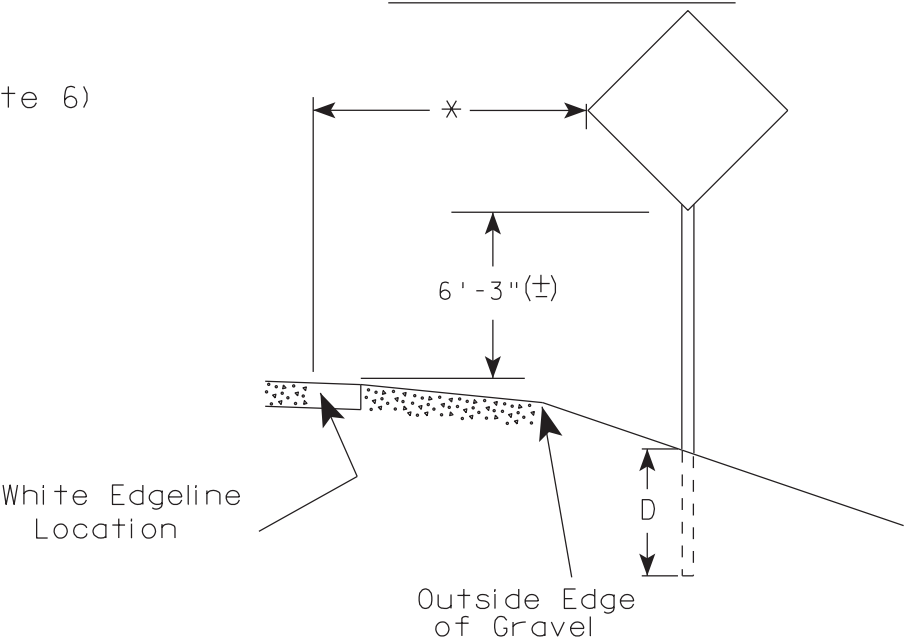
NARROW SIDEWALK PASSING DETAIL

|                                                    |                                                                        |
|----------------------------------------------------|------------------------------------------------------------------------|
| TRAFFIC CONTROL,<br>PEDESTRIAN ACCOMMODATION       |                                                                        |
| STATE OF WISCONSIN<br>DEPARTMENT OF TRANSPORTATION |                                                                        |
| APPROVED<br>June 2016<br>DATE                      | /S/ Peter Amakobe Atepe<br>STATEWIDE WORK ZON 85<br>SAFETY ENGINEER IC |
| FHWA                                               |                                                                        |

URBAN AREA

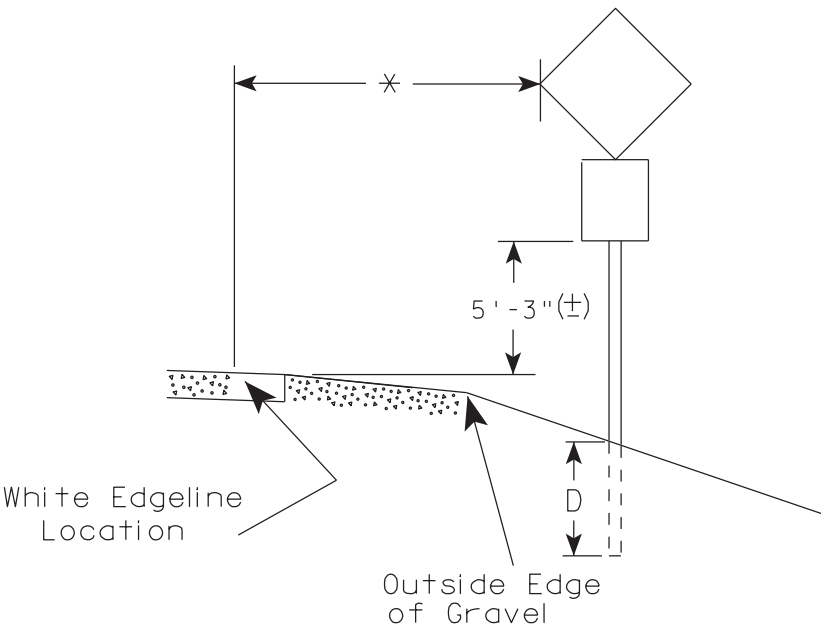
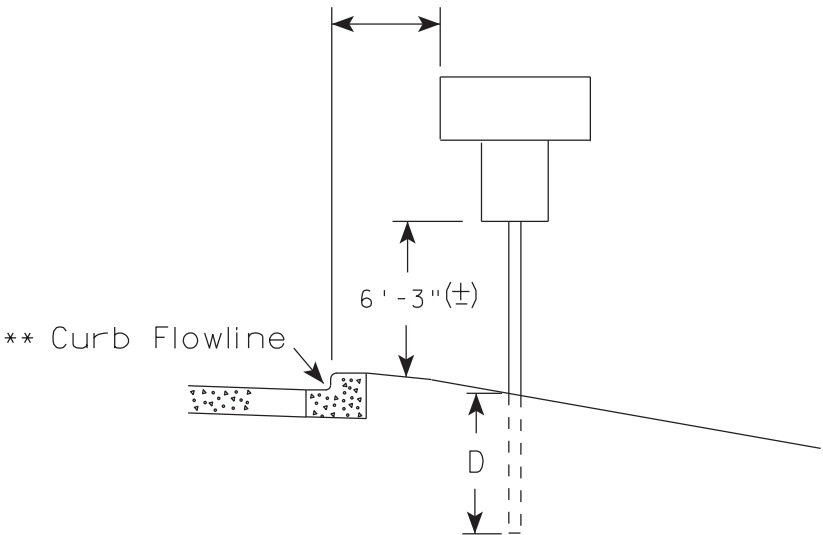


RURAL AREA (See Note 2)



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

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



POST EMBEDMENT DEPTH

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

\* \* 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.

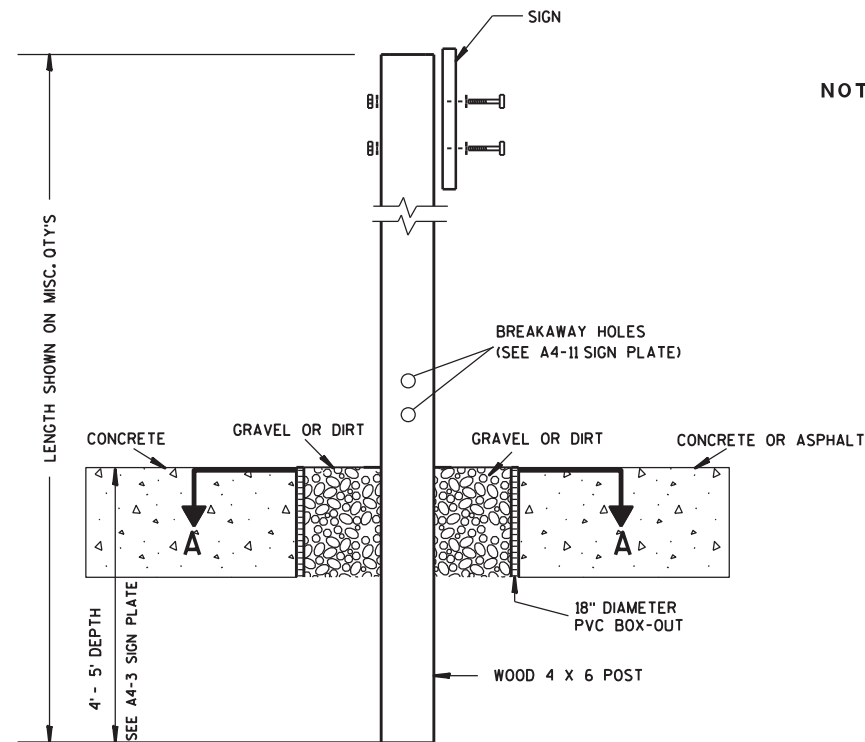
TYPICAL INSTALLATION  
OF PERMANENT TYPE II  
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

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

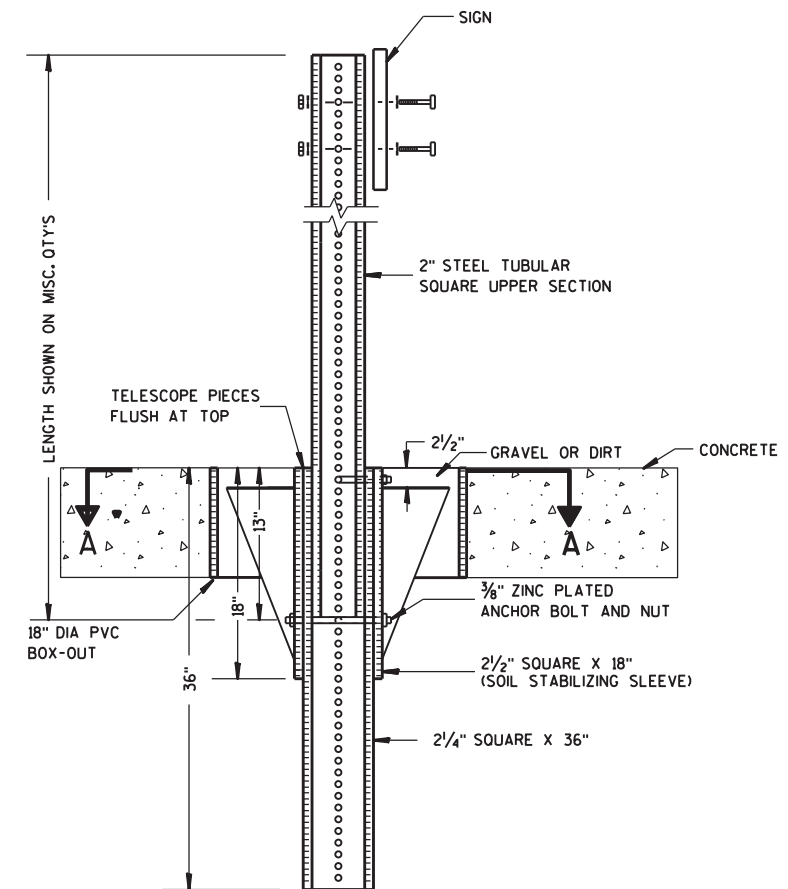
86



### ELEVATION VIEW

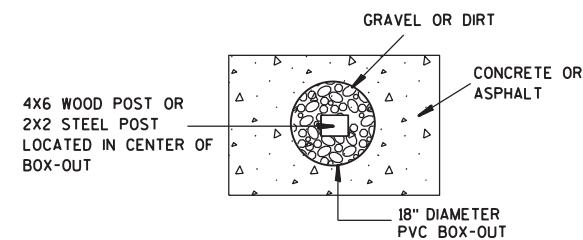
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 1/27/14 PLAT 87 A4-3B.1

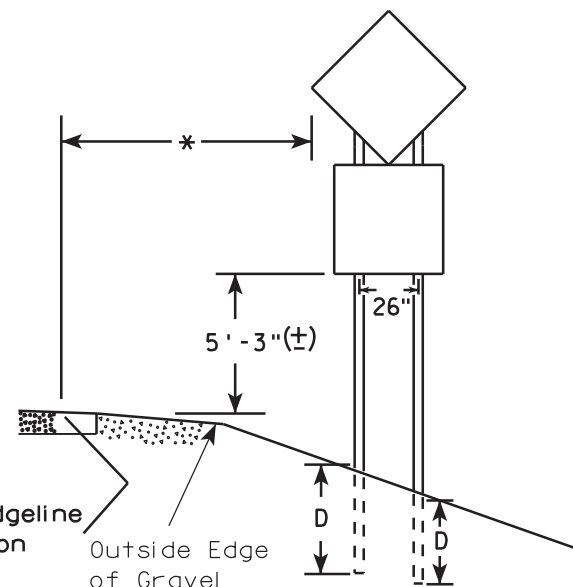
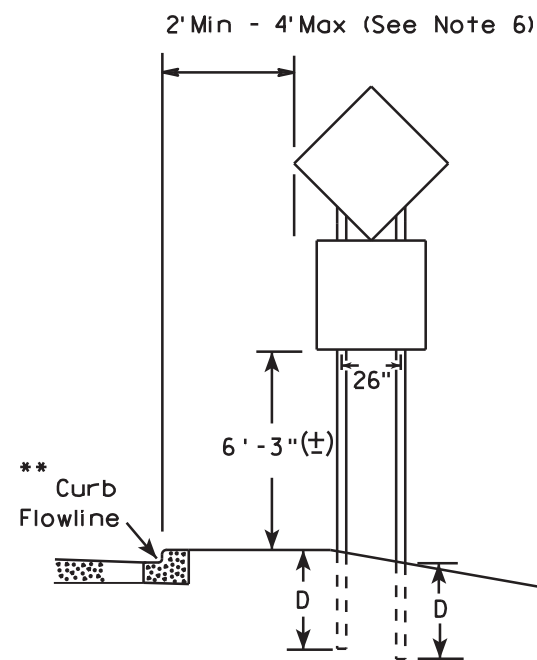
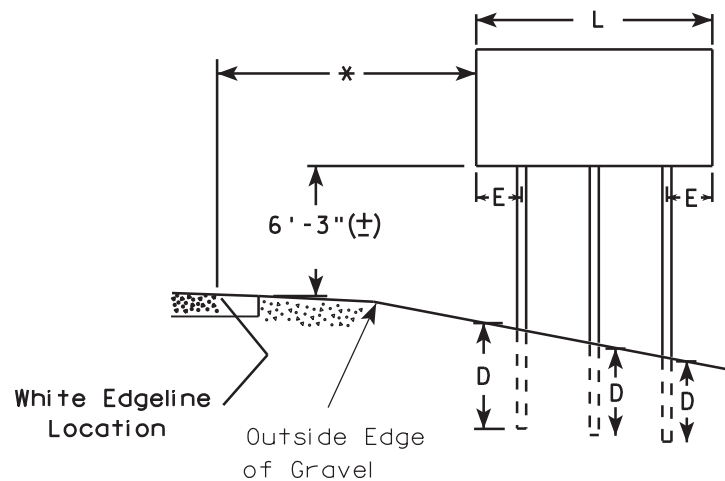
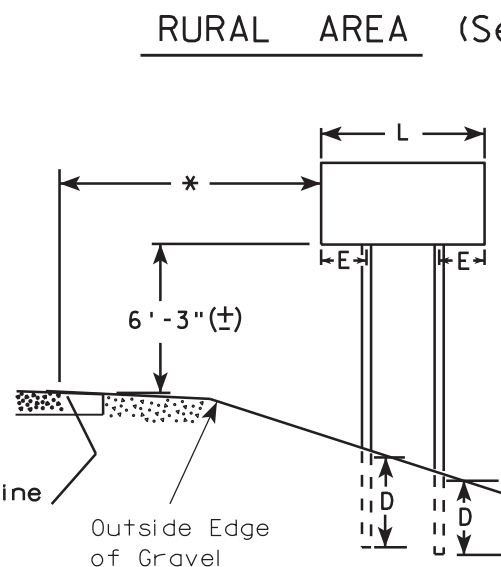
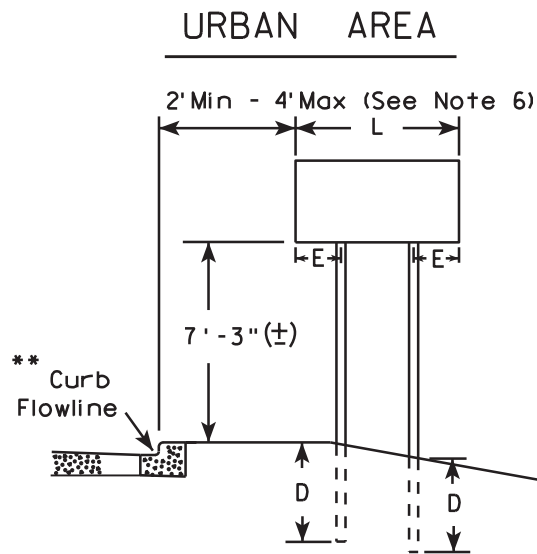
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN

48" DIAMOND WARNING SIGN

- 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. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
  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" (±).

\* 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<br>(TWO POSTS REQUIRED) |     |
|-------------------------------------------------------|-----|
| L                                                     | E   |
| Greater than 48"<br>Less than 60"                     | 12" |
| 60" to 120"                                           | L/5 |

| SIGN SHAPE OTHER THAN DIAMOND<br>(THREE POSTS REQUIRED) |     |
|---------------------------------------------------------|-----|
| L                                                       | E   |
| Greater than 120"<br>less than 168"                     | 12" |

| SIGN SHAPE OTHER THAN DIAMOND<br>(FOUR POSTS REQUIRED) |     |
|--------------------------------------------------------|-----|
| L                                                      | E   |
| 168" and greater                                       | 12" |

POST EMBEDMENT DEPTH

| Area of Sign<br>Installation<br>( Sq. Ft. ) | D<br>( 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 7/23/15 PLATE NO. <sup>AA-A</sup> 14  
88

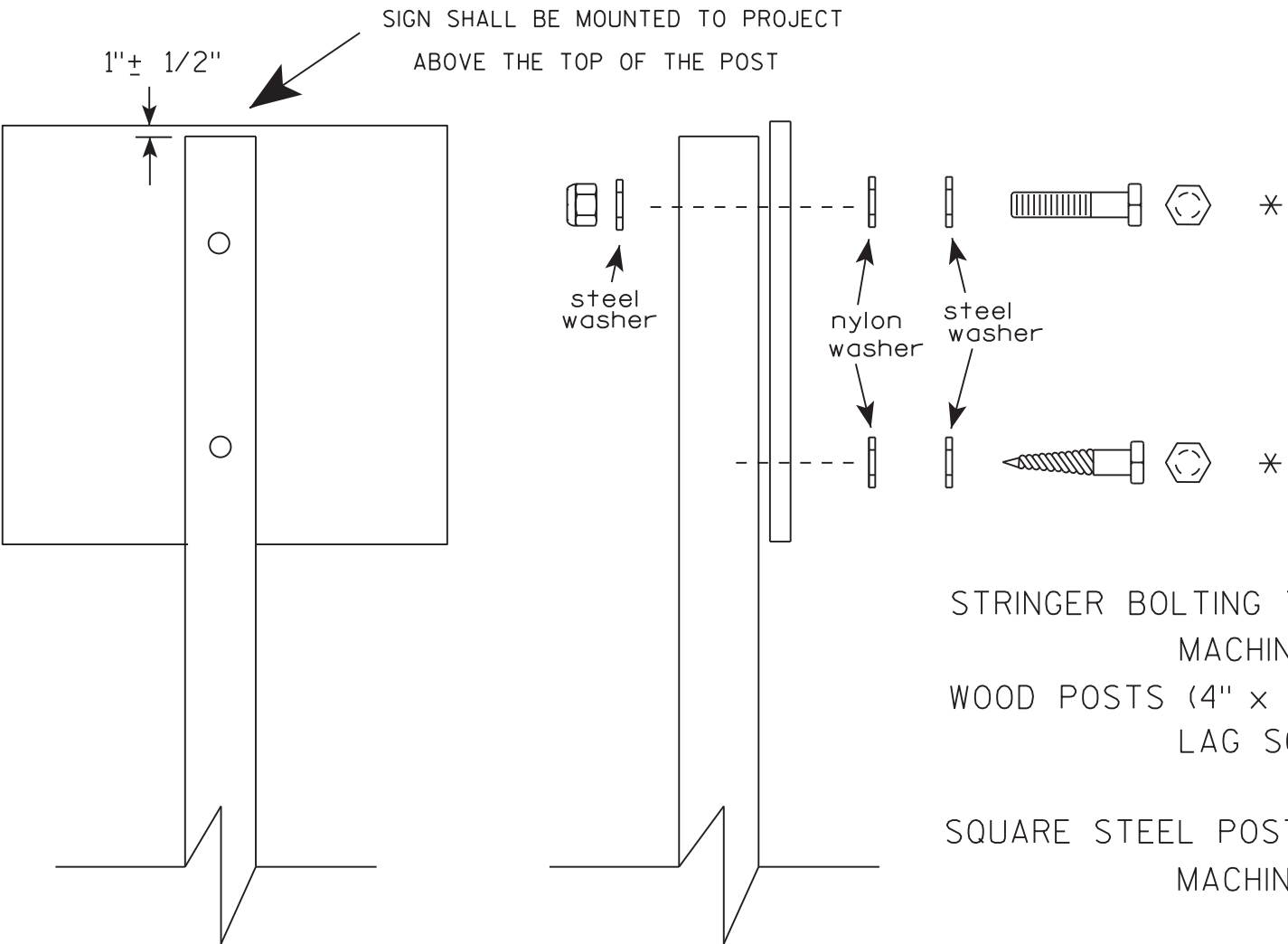
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



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

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

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

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS -  $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS -  $\frac{3}{8}$ " X 3" (NO STRINGERS ON BACK OF SIGN)
  - $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS -  $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
  - $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS -  $\frac{9}{32}$ " (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  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ " STEEL
  - 1-1/4" O.D. X  $\frac{3}{8}$ " 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.

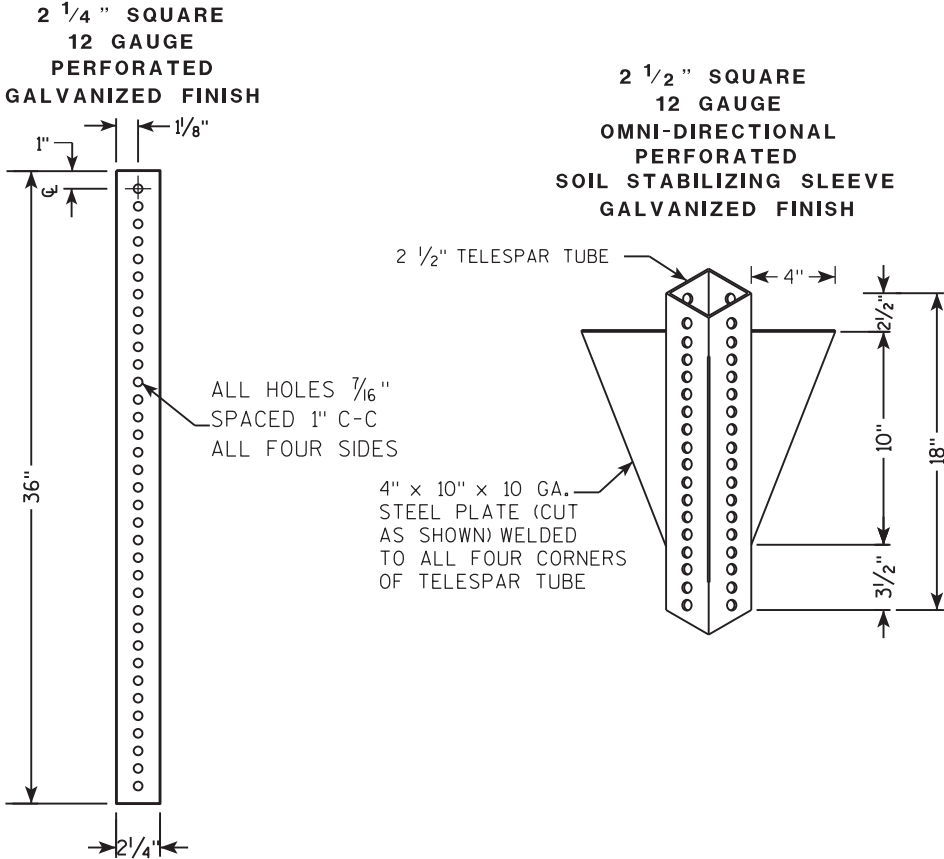
ATTACHMENT OF SIGNS  
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

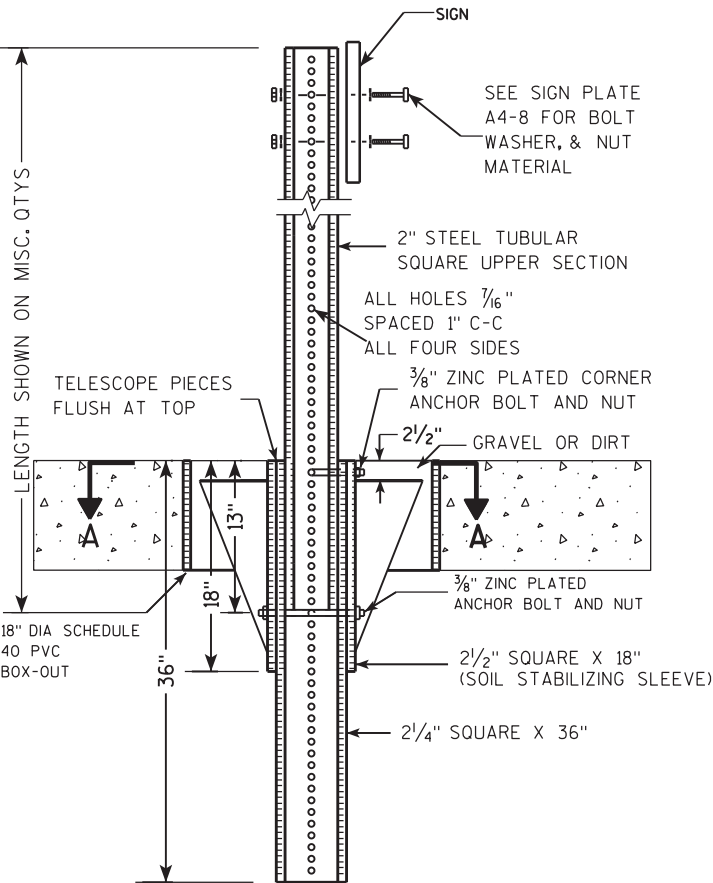
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8  
89

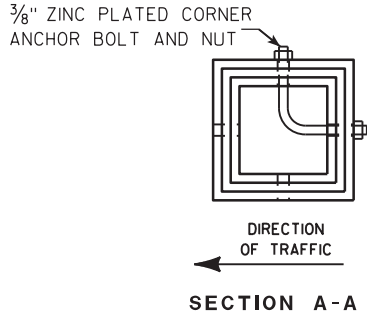
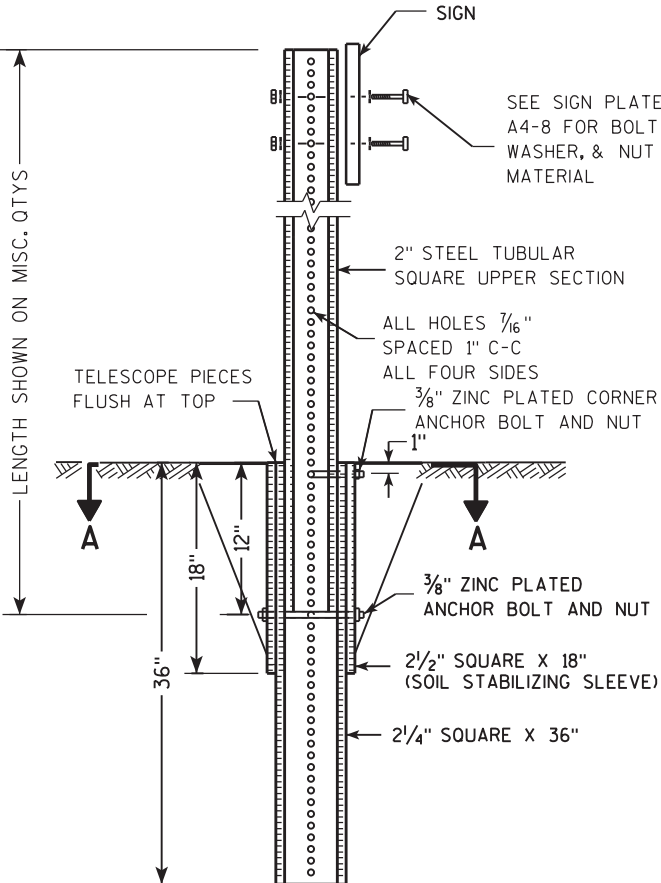
TELESCOPIC TUBING ANCHORS  
TWO PIECE SYSTEM



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                        |

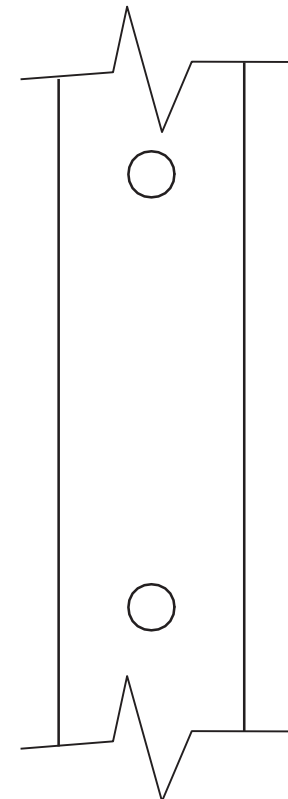
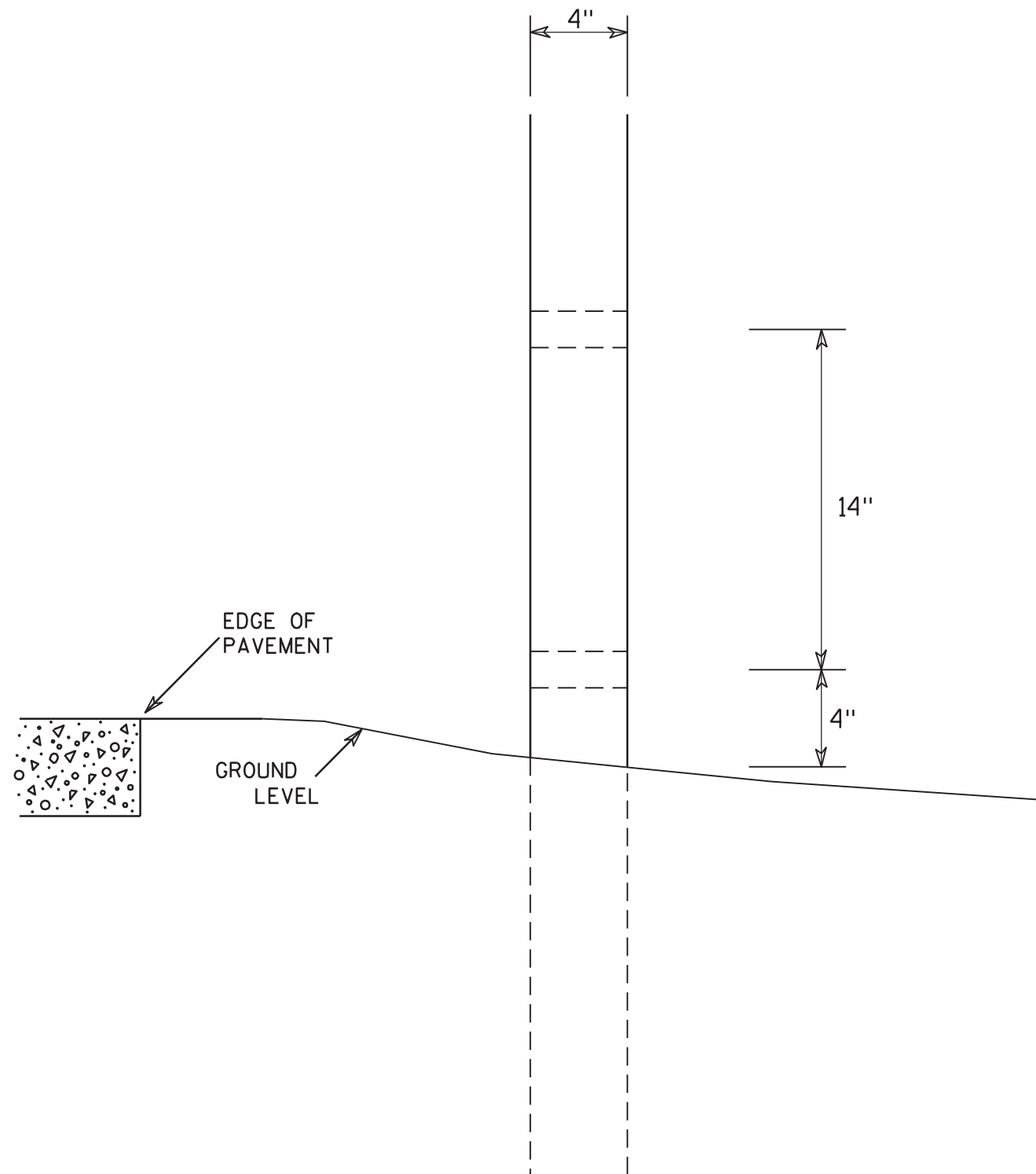
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL  
SIGN POST  
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 2/05/15 PLAT 90 14-9.9



SIDE VIEW

# GENERAL NOTES

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

## 4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

*Chester J. Spang*  
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

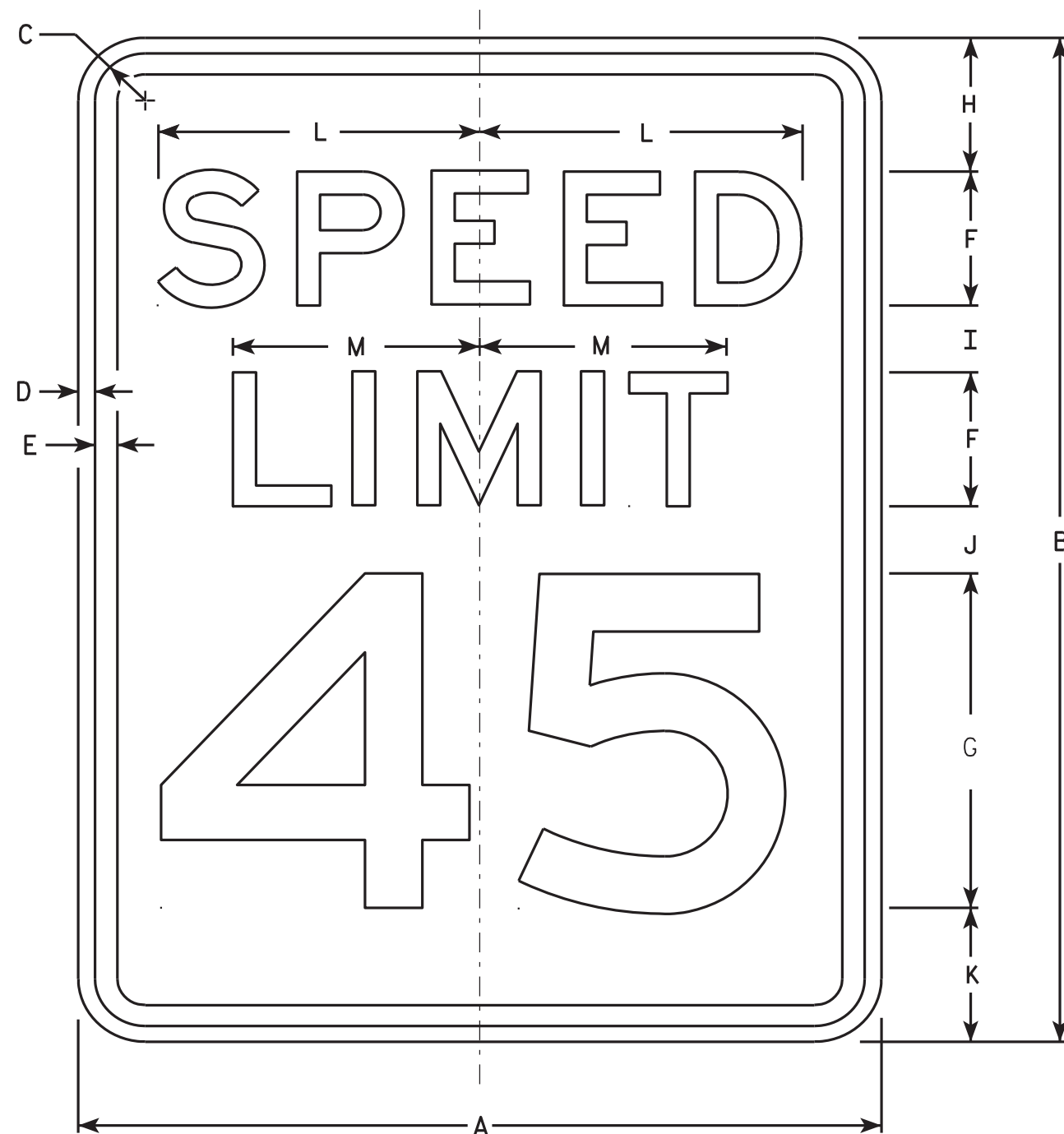
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 91

E



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.

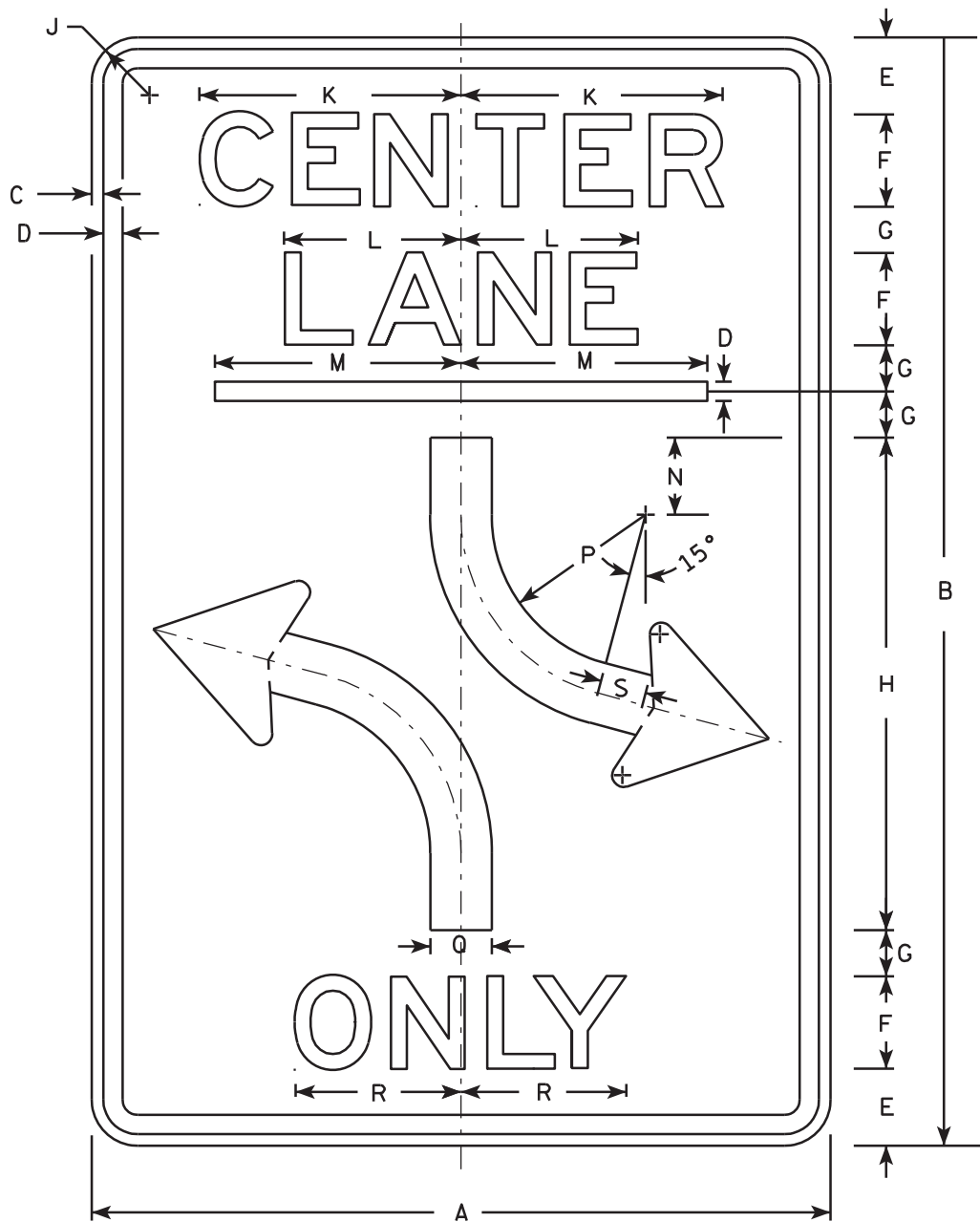
| SIZE | A  | B  | C     | D   | E   | F | G  | H | I     | J     | K     | L      | M      | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|----|-------|-----|-----|---|----|---|-------|-------|-------|--------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 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: 92 E

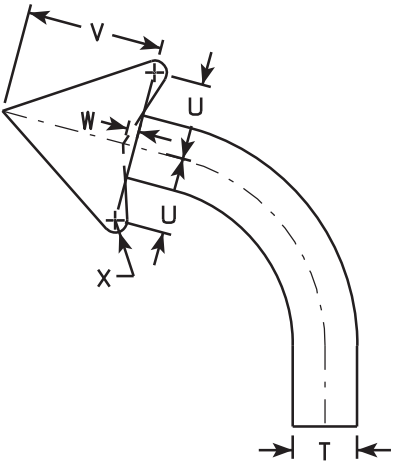
7



R3-9B

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.



ARROW DETAIL

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<br>sq. ft. |
|------|----|----|---------------|---------------|-----------------|---|-----------------|----|---|-----------------|------------------|-----------------|----|-----------------|---|---|---|-----------------|-----------------|---|-----------------|-----------------|---------------|---|---|---|-----------------|
| 1    |    |    |               |               |                 |   |                 |    |   |                 |                  |                 |    |                 |   |   |   |                 |                 |   |                 |                 |               |   |   |   |                 |
| 2S   | 24 | 36 | $\frac{3}{8}$ | $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 3 | 1 $\frac{1}{2}$ | 16 |   | 1 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 5 $\frac{3}{4}$ | 8  | 2 $\frac{1}{2}$ |   | 6 | 2 | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |   | 2 $\frac{3}{8}$ | 4 $\frac{3}{8}$ | $\frac{3}{8}$ |   |   |   | 6.0             |
| 2M   | 24 | 36 | $\frac{3}{8}$ | $\frac{1}{2}$ | 2 $\frac{1}{2}$ | 3 | 1 $\frac{1}{2}$ | 16 |   | 1 $\frac{1}{2}$ | 8 $\frac{1}{2}$  | 5 $\frac{3}{4}$ | 8  | 2 $\frac{1}{2}$ |   | 6 | 2 | 5 $\frac{1}{8}$ | 1 $\frac{1}{2}$ |   | 2 $\frac{3}{8}$ | 4 $\frac{3}{8}$ | $\frac{3}{8}$ |   |   |   | 6.0             |
| 3    | 36 | 48 | $\frac{5}{8}$ | $\frac{7}{8}$ | 3 $\frac{1}{2}$ | 5 | 1 $\frac{1}{2}$ | 20 |   | 2 $\frac{1}{4}$ | 14 $\frac{1}{8}$ | 9 $\frac{1}{2}$ | 12 | 3               |   | 4 | 3 | 9 $\frac{7}{8}$ | 2               |   | 3 $\frac{1}{2}$ | 6 $\frac{1}{8}$ | $\frac{1}{2}$ |   |   |   | 12.0            |
| 4    |    |    |               |               |                 |   |                 |    |   |                 |                  |                 |    |                 |   |   |   |                 |                 |   |                 |                 |               |   |   |   |                 |
| 5    |    |    |               |               |                 |   |                 |    |   |                 |                  |                 |    |                 |   |   |   |                 |                 |   |                 |                 |               |   |   |   |                 |

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 93

E

STANDARD SIGN  
R3-9B

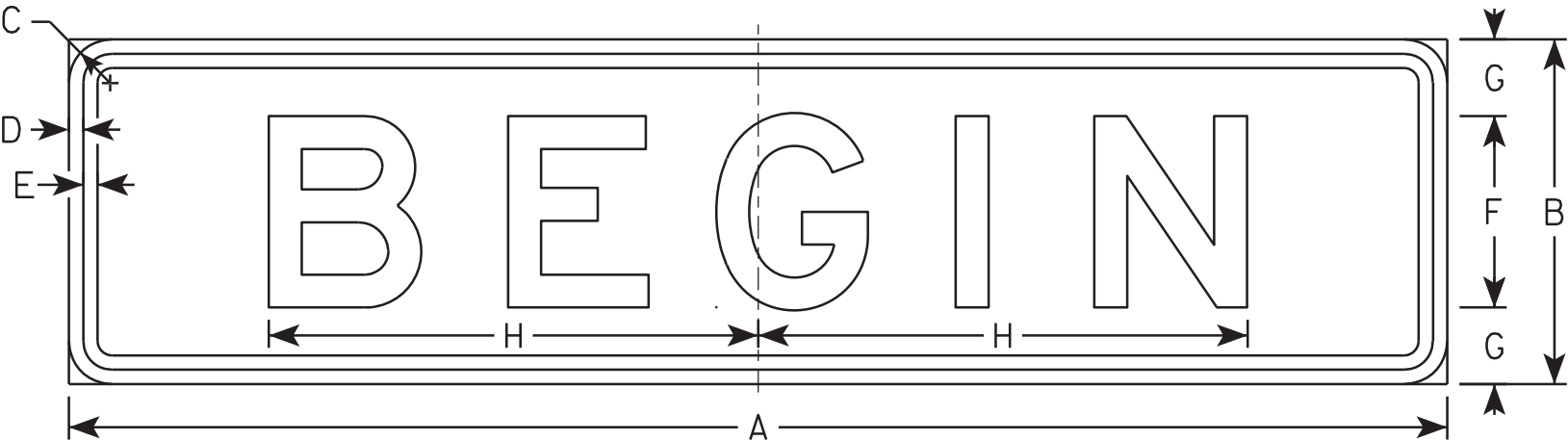
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

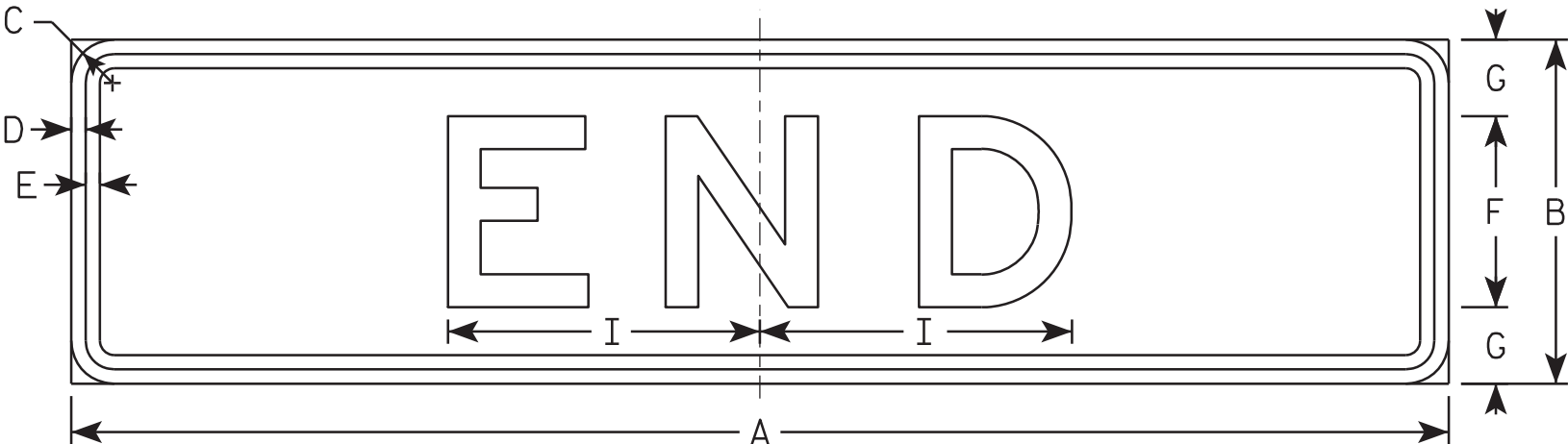
DATE 3/24/2011 PLATE NO. R3-9B.5

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.



R3-9C



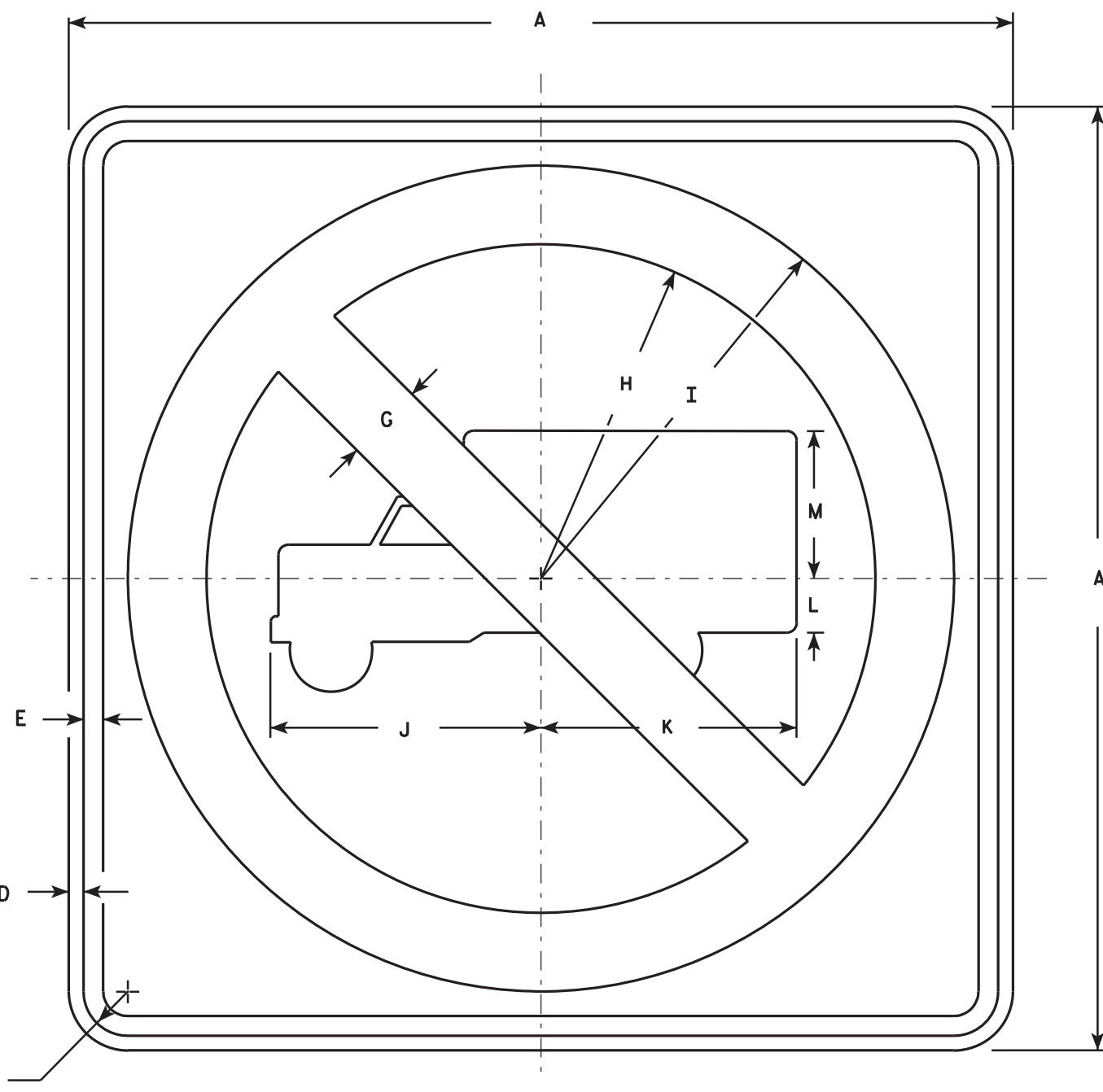
R3-9D

| 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<br>sq. ft. |
|------|----|---|-------|-----|-----|---|-------|--------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |   |       |     |     |   |       |        |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 24 | 6 | 1 1/8 | 3/8 | 3/8 | 3 | 1 1/2 | 7 3/4  | 4 7/8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0             |
| 2M   | 24 | 6 | 1 1/8 | 3/8 | 3/8 | 3 | 1 1/2 | 7 3/4  | 4 7/8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0             |
| 3    | 36 | 9 | 1 1/8 | 3/8 | 3/8 | 5 | 2     | 12 3/4 | 8 1/8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.86            |
| 4    |    |   |       |     |     |   |       |        |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 5    |    |   |       |     |     |   |       |        |       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |

STANDARD SIGN  
R3-9C & R3-9D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 3/24/2011 PLATE NO. R3-9C.2



R5-2

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 - See Note 4
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. Circle & Diagonal - Reflective red.  
Truck Symbol & Border - Non-reflective black.

| 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<br>sq. ft. |
|------|----|---|-------|-----|-----|---|-------|--------|--------|--------|-------|-------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |   |       |     |     |   |       |        |        |        |       |       |       |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 24 |   | 1 1/8 | 3/8 | 1/2 |   | 2     | 8 1/2  | 10 1/2 | 6 7/8  | 6 1/2 | 1 3/8 | 3 3/4 |   |   |   |   |   |   |   |   |   |   |   |   |   | 4.0             |
| 2M   | 24 |   | 1 1/8 | 3/8 | 1/2 |   | 2     | 8 1/2  | 10 1/2 | 6 7/8  | 6 1/2 | 1 3/8 | 3 3/4 |   |   |   |   |   |   |   |   |   |   |   |   |   | 4.0             |
| 3    | 30 |   | 1 3/8 | 1/2 | 5/8 |   | 2 1/2 | 10 5/8 | 13 1/8 | 8 1/2  | 8 1/8 | 1 5/8 | 4 3/4 |   |   |   |   |   |   |   |   |   |   |   |   |   | 6.25            |
| 4    | 36 |   | 1 5/8 | 5/8 | 3/4 |   | 3     | 12 3/4 | 15 3/4 | 10 1/4 | 9 3/4 | 2     | 5 3/4 |   |   |   |   |   |   |   |   |   |   |   |   |   | 9.0             |
| 5    | 48 |   | 2 1/4 | 3/4 | 1   |   | 4     | 17     | 21     | 13 5/8 | 13    | 2 5/8 | 7 5/8 |   |   |   |   |   |   |   |   |   |   |   |   |   | 16.0            |

STANDARD SIGN  
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 95

E

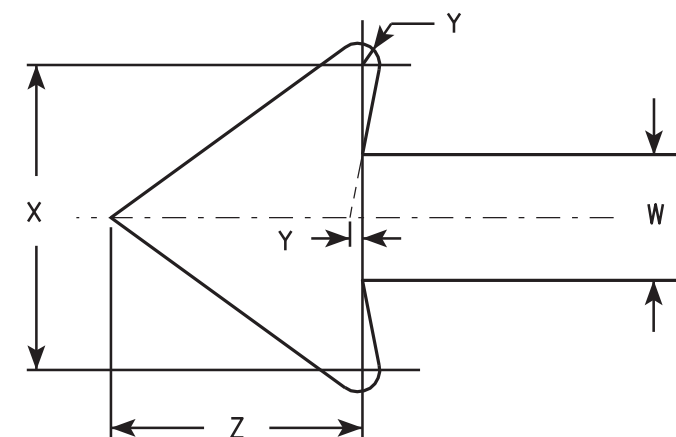
7



R7-51

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 - Red
3. Message Series - See Note 6
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. R7-51D (double arrow)  
R7-51R (right arrow)  
R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.  
Line 2 is Series B.



ARROW DETAIL

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<br>sq. ft. |
|------|----|----|-------|-----|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-----------------|
| 1    | 12 | 18 | 1 1/8 | 3/8 | 3/8 | 3 | 1 7/8 | 2     | 7/8   | 5/8   | 1 1/2 | 2 1/2 | 2     | 2     | 4 7/8 | 4 7/8 | 4 7/8 | 5/8   | 1 3/4 | 2 1/2 | 4 3/8 | 3 7/8 | 3/4   | 1 3/4 | 1/8 | 1 1/2 | 1.5             |
| 2S   | 18 | 24 | 1 1/8 | 3/8 | 1/2 | 4 | 2 1/2 | 2 1/2 | 1 1/4 | 1     | 2     | 3 1/4 | 2 3/4 | 2 5/8 | 7 1/8 | 7     | 5 3/4 | 1 1/8 | 1 1/2 | 3 1/8 | 5 1/2 | 5 7/8 | 1 1/8 | 2 5/8 | 1/4 | 2 1/4 | 3.0             |
| 2M   | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 3     | 3     | 2     | 1 1/4 | 2 1/2 | 4     | 3 1/4 | 3 3/8 | 9 1/4 | 9 1/4 | 7 1/8 | 1 1/4 | 2     | 3 3/4 | 6 1/2 | 7 3/4 | 1 1/2 | 3 1/2 | 1/4 | 3     | 5.0             |
| 3    | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 3     | 3     | 2     | 1 1/4 | 2 1/2 | 4     | 3 1/4 | 3 3/8 | 9 1/4 | 9 1/4 | 7 1/8 | 1 1/4 | 2     | 3 3/4 | 6 1/2 | 7 3/4 | 1 1/2 | 3 1/2 | 1/4 | 3     | 5.0             |
| 4    |    |    |       |     |     |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |       |                 |
| 5    |    |    |       |     |     |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |       |                 |

|             |      |         |  |              |   |
|-------------|------|---------|--|--------------|---|
| PROJECT NO: | HWY: | COUNTY: |  | SHEET NO: 96 | E |
|-------------|------|---------|--|--------------|---|

STANDARD SIGN  
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

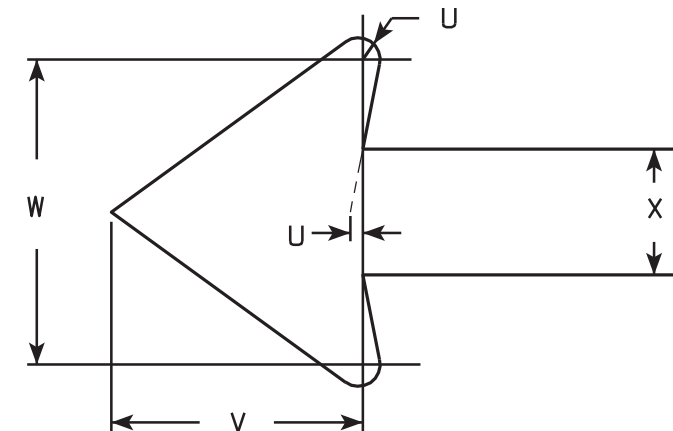
DATE 3/31/2011 PLATE NO. R7-51.6



R7-52

### 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 - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-52D (double arrow)  
R7-52L (left arrow)  
R7-52R (right arrow)



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<br>sq. ft. |
|------|----|----|-------|-----|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|---|---|-----------------|
| 1    | 12 | 18 | 1 1/8 | 3/8 | 3/8 | 3 | 1 7/8 | 1 1/2 | 7/8   | 7/8   | 2     | 2 1/2 | 2     | 2     | 4 7/8 | 4 7/8 | 5 1/8 | 5     | 3 1/8 | 3 7/8 | 1/8 | 1 1/2 | 1 3/4 | 3/4   |   |   | 1.5             |
| 2S   | 18 | 24 | 1 1/8 | 3/8 | 1/2 | 4 | 2 1/2 | 2 1/2 | 1 1/4 | 1     | 2     | 3 1/4 | 2 3/4 | 2 5/8 | 7 1/8 | 7     | 6 3/8 | 6 1/4 | 3 7/8 | 5 7/8 | 1/4 | 2 1/4 | 2 5/8 | 1 1/8 |   |   | 3.0             |
| 2M   | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 3     | 3     | 2     | 1 1/4 | 2 1/2 | 4     | 3 1/4 | 3 3/8 | 9 1/4 | 9 1/4 | 7 5/8 | 7 5/8 | 4 3/4 | 7 3/4 | 1/4 | 3     | 3 1/2 | 1 1/2 |   |   | 5.0             |
| 3    | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 3     | 3     | 2     | 1 1/4 | 2 1/2 | 4     | 3 1/4 | 3 3/8 | 9 1/4 | 9 1/4 | 7 5/8 | 7 5/8 | 4 3/4 | 7 3/4 | 1/4 | 3     | 3 1/2 | 1 1/2 |   |   | 5.0             |
| 4    |    |    |       |     |     |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |       |       |       |   |   |                 |
| 5    |    |    |       |     |     |   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |       |       |       |   |   |                 |

### STANDARD SIGN R7-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-52.6

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 97

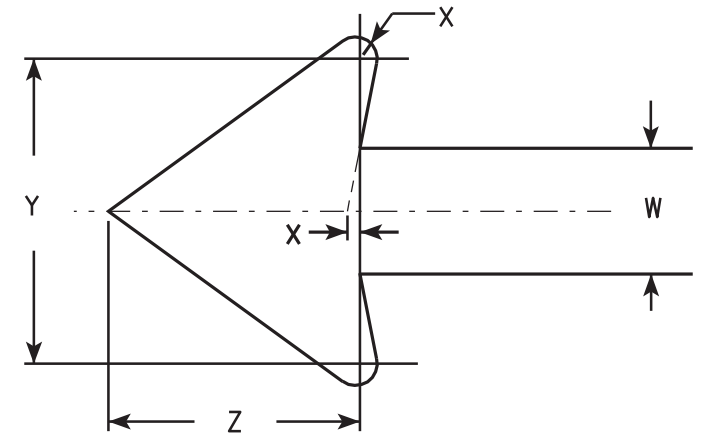
E



R7-53

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 - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-53D (double arrow)  
R7-53L (left arrow)  
R7-53R (right arrow)



ARROW DETAIL

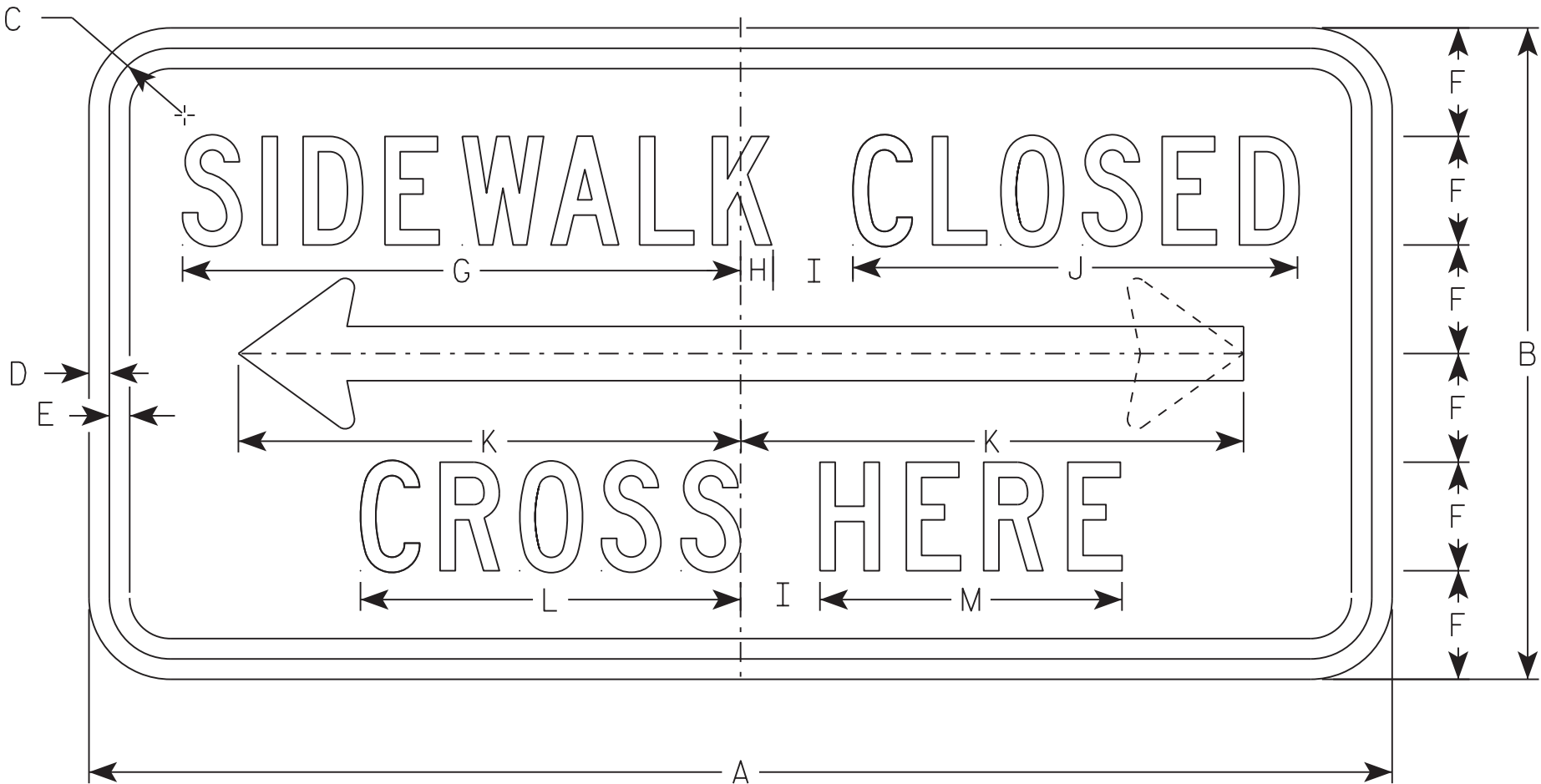
| SIZE | A  | B  | C     | D   | E   | F | G     | H     | I     | J     | K     | L     | M     | N     | O     | P     | Q     | R     | S   | T     | U     | V     | W     | X   | Y     | Z     | Area<br>sq. ft. |
|------|----|----|-------|-----|-----|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-----|-------|-------|-----------------|
| 1    | 12 | 18 | 1 1/8 | 3/8 | 3/8 | 3 | 1 7/8 | 2     | 7/8   | 5/8   | 1 1/2 | 2 1/2 | 2     | 2     | 4 7/8 | 4 7/8 | 2 5/8 | 1 3/4 | 1/4 | 4 1/2 | 2 3/8 | 3 7/8 | 3/4   | 1/8 | 1 3/4 | 1 1/2 | 1.5             |
| 2S   | 18 | 24 | 1 1/8 | 3/8 | 1/2 | 4 | 2 1/2 | 2 1/2 | 1 1/4 | 1     | 2     | 3 1/4 | 2 3/4 | 2 5/8 | 7 1/8 | 7     | 3 3/8 | 1 1/2 | 5/8 | 5 3/8 | 3     | 5 7/8 | 1 1/8 | 1/4 | 2 5/8 | 2 1/4 | 3.0             |
| 2M   | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 3     | 3     | 2     | 1 1/4 | 2 1/2 | 4     | 3 1/4 | 3 3/8 | 9 1/4 | 9 1/4 | 4     | 2     | 5/8 | 6 5/8 | 3 5/8 | 7 3/4 | 1 1/2 | 1/4 | 3 1/2 | 3     | 5.0             |
| 3    | 24 | 30 | 1 1/8 | 3/8 | 1/2 | 5 | 3     | 3     | 2     | 1 1/4 | 2 1/2 | 4     | 3 1/4 | 3 3/8 | 9 1/4 | 9 1/4 | 4     | 2     | 5/8 | 6 5/8 | 3 5/8 | 7 3/4 | 1 1/2 | 1/4 | 3 1/2 | 3     | 5.0             |
| 4    |    |    |       |     |     |   |       |       |       |       |       |       |       |       |       |       |       |       |     |       |       |       |       |     |       |       |                 |
| 5    |    |    |       |     |     |   |       |       |       |       |       |       |       |       |       |       |       |       |     |       |       |       |       |     |       |       |                 |

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| STANDARD SIGN<br>R7-53           |                                                       |
| WISCONSIN DEPT OF TRANSPORTATION |                                                       |
| APPROVED                         | <i>Matthew R. Rauch</i><br>for State Traffic Engineer |
| DATE 3/31/2011                   | PLATE NO. R7-53.6                                     |

|             |      |         |              |   |
|-------------|------|---------|--------------|---|
| PROJECT NO: | HWY: | COUNTY: | SHEET NO: 98 | E |
|-------------|------|---------|--------------|---|

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:  
Background - White  
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.
- 5. Use Size 2 for Sidewalks. Use Size 3 for paths and Trails.



R9-11A

| 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<br>sq. ft. |
|------|----|----|-------|-----|-----|---|--------|-----|-------|--------|--------|-------|-------|-------|-------|-----|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |    |       |     |     |   |        |     |       |        |        |       |       |       |       |     |   |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 24 | 12 | 1 1/8 | 3/8 | 3/8 | 2 | 10 1/4 | 5/8 | 1 1/2 | 8 1/4  | 9 1/4  | 7     | 5 5/8 | 1     | 2 3/4 | 1/8 |   |   |   |   |   |   |   |   |   |   | 2.0             |
| 2M   | 24 | 12 | 1 1/8 | 3/8 | 3/8 | 2 | 10 1/4 | 5/8 | 1 1/2 | 8 1/4  | 9 1/4  | 7     | 5 5/8 | 1     | 2 3/4 | 1/8 |   |   |   |   |   |   |   |   |   |   | 2.0             |
| 3    | 30 | 15 | 1 1/8 | 3/8 | 1/2 | 2 | 13     | 3/4 | 2     | 10 1/4 | 12 3/8 | 8 7/8 | 6 7/8 | 1 1/4 | 3 5/8 | 1/4 |   |   |   |   |   |   |   |   |   |   | 3.125           |
| 4    |    |    |       |     |     |   |        |     |       |        |        |       |       |       |       |     |   |   |   |   |   |   |   |   |   |   |                 |
| 5    |    |    |       |     |     |   |        |     |       |        |        |       |       |       |       |     |   |   |   |   |   |   |   |   |   |   |                 |

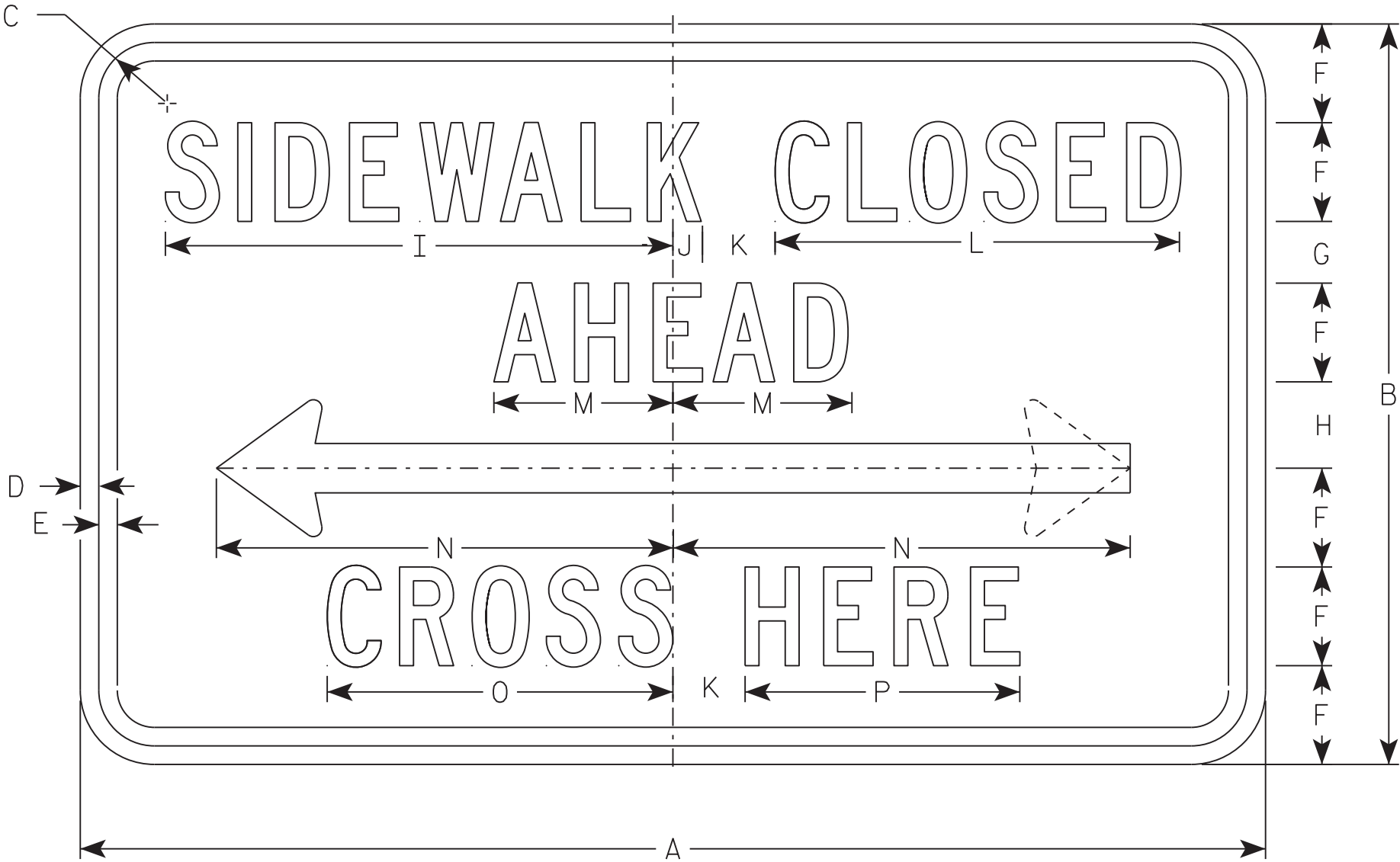
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 99

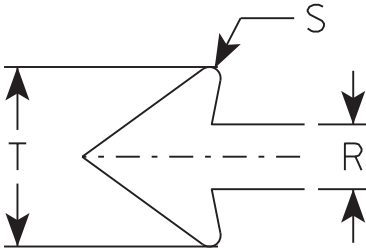
E



R9-11

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:  
Background - White  
Message - Black
- 3. Message Series - C except Size 1 is 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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



| 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<br>sq. ft. |
|------|----|----|-------|-----|-----|-------|-------|-------|-------|-----|-------|--------|-------|--------|-------|-------|---|-------|-----|-------|---|---|---|---|---|---|-----------------|
| 1    |    |    |       |     |     |       |       |       |       |     |       |        |       |        |       |       |   |       |     |       |   |   |   |   |   |   |                 |
| 2S   | 24 | 12 | 1 1/8 | 3/8 | 3/8 | 1 1/2 | 1 1/2 | 1 1/2 | 9 3/4 | 5/8 | 1 1/2 | 7 5/8  | 3 1/2 | 9 1/4  | 6 5/8 | 5 1/8 |   | 1     | 1/8 | 2 3/4 |   |   |   |   |   |   | 2.0             |
| 2M   | 24 | 12 | 1 1/8 | 3/8 | 3/8 | 1 1/2 | 1 1/2 | 1 1/2 | 9 3/4 | 5/8 | 1 1/2 | 7 5/8  | 3 1/2 | 9 1/4  | 6 5/8 | 5 1/8 |   | 1     | 1/8 | 2 3/4 |   |   |   |   |   |   | 2.0             |
| 3    | 30 | 15 | 1 1/8 | 3/8 | 1/2 | 2     | 1 1/2 | 1 1/2 | 13    | 3/4 | 2     | 10 1/4 | 4 5/8 | 12 3/8 | 8 7/8 | 6 7/8 |   | 1 1/4 | 1/4 | 3 5/8 |   |   |   |   |   |   | 3.125           |
| 4    |    |    |       |     |     |       |       |       |       |     |       |        |       |        |       |       |   |       |     |       |   |   |   |   |   |   |                 |
| 5    |    |    |       |     |     |       |       |       |       |     |       |        |       |        |       |       |   |       |     |       |   |   |   |   |   |   |                 |

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 100

E

STANDARD SIGN  
R9-11

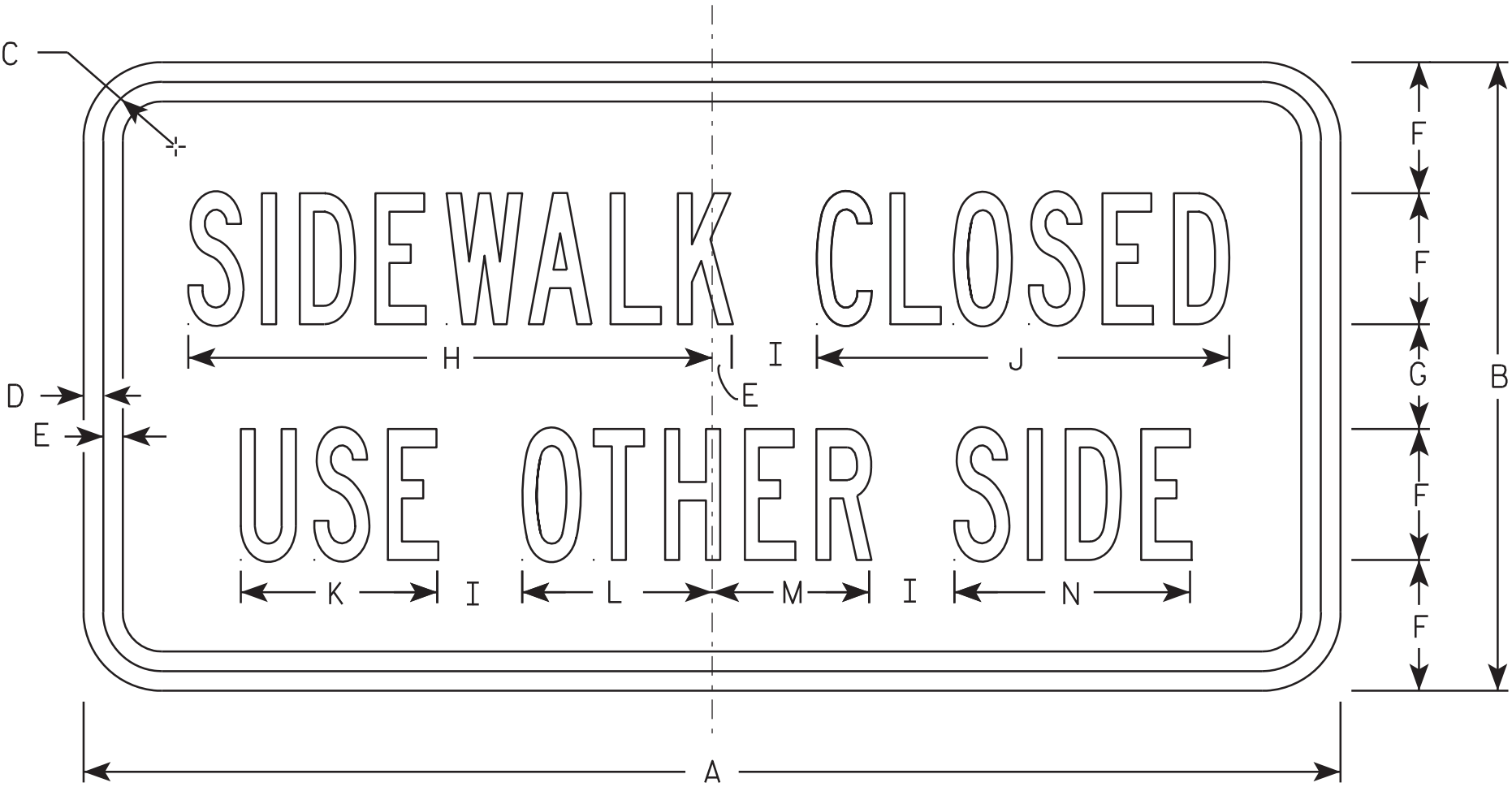
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R9-11.3

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 - B
- 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.



R9-10

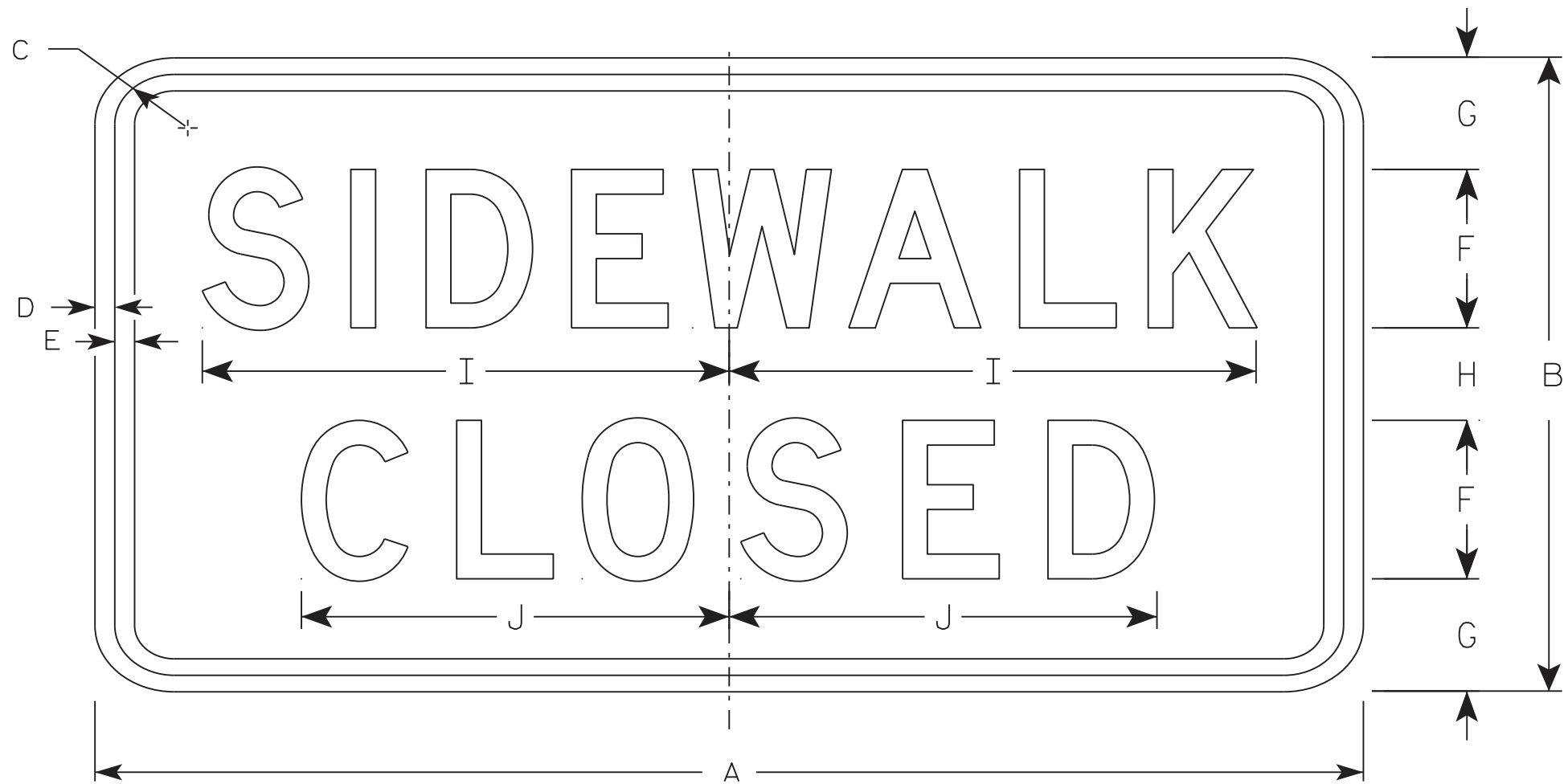
| SIZE | A  | B  | C     | D   | E   | F     | G | H  | I     | J      | K     | L     | M | N     | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|----|-------|-----|-----|-------|---|----|-------|--------|-------|-------|---|-------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    | 24 | 12 | 1 1/8 | 3/8 | 3/8 | 2 1/2 | 2 | 10 | 1 5/8 | 7 7/8  | 3 3/4 | 3 5/8 | 3 | 4 1/2 |   |   |   |   |   |   |   |   |   |   |   |   | 2.0             |
| 2S   | 48 | 24 | 2 3/4 | 3/4 | 3/4 | 5     | 4 | 20 | 3 1/4 | 15 3/4 | 7 1/2 | 7 1/4 | 6 | 9     |   |   |   |   |   |   |   |   |   |   |   |   | 8.0             |
| 2M   | 48 | 24 | 2 3/4 | 3/4 | 3/4 | 5     | 4 | 20 | 3 1/4 | 15 3/4 | 7 1/2 | 7 1/4 | 6 | 9     |   |   |   |   |   |   |   |   |   |   |   |   | 8.0             |
| 3    |    |    |       |     |     |       |   |    |       |        |       |       |   |       |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 4    |    |    |       |     |     |       |   |    |       |        |       |       |   |       |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 5    |    |    |       |     |     |       |   |    |       |        |       |       |   |       |   |   |   |   |   |   |   |   |   |   |   |   |                 |

STANDARD SIGN  
R9-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 8/16/2012 PLATE NO. R9-10.5



R9-9

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 - 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.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

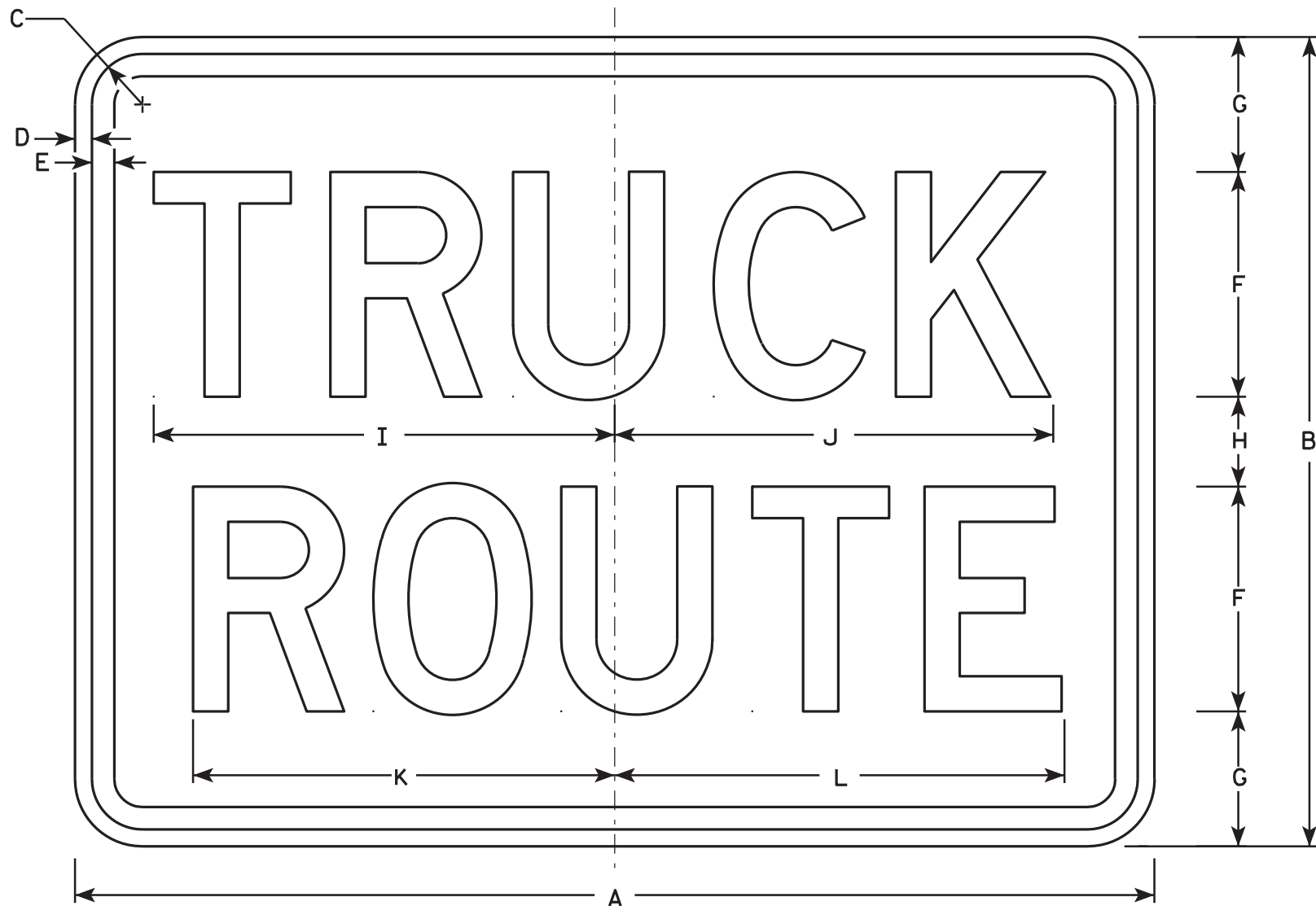
| SIZE | A  | B  | C   | D | E | F | G   | H   | I    | J    | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|----|-----|---|---|---|-----|-----|------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |    |     |   |   |   |     |     |      |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 24 | 12 | 1 ¾ | ½ | ½ | 3 | 2 ⅛ | 1 ¾ | 10   | 8 ⅛  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0             |
| 2M   | 24 | 12 | 1 ¾ | ½ | ½ | 3 | 2 ⅛ | 1 ¾ | 10   | 8 ⅛  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0             |
| 3    | 30 | 18 | 1 ¾ | ½ | ½ | 4 | 3 ½ | 3   | 12 ½ | 10 ¼ |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3.75            |
| 4    |    |    |     |   |   |   |     |     |      |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 5    |    |    |     |   |   |   |     |     |      |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |

STANDARD SIGN  
R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED  
*Matthew R. Rauch*  
for State Traffic Engineer

DATE 8/11/16 PLATE 102 R9-9.6



R14-1

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 - 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.

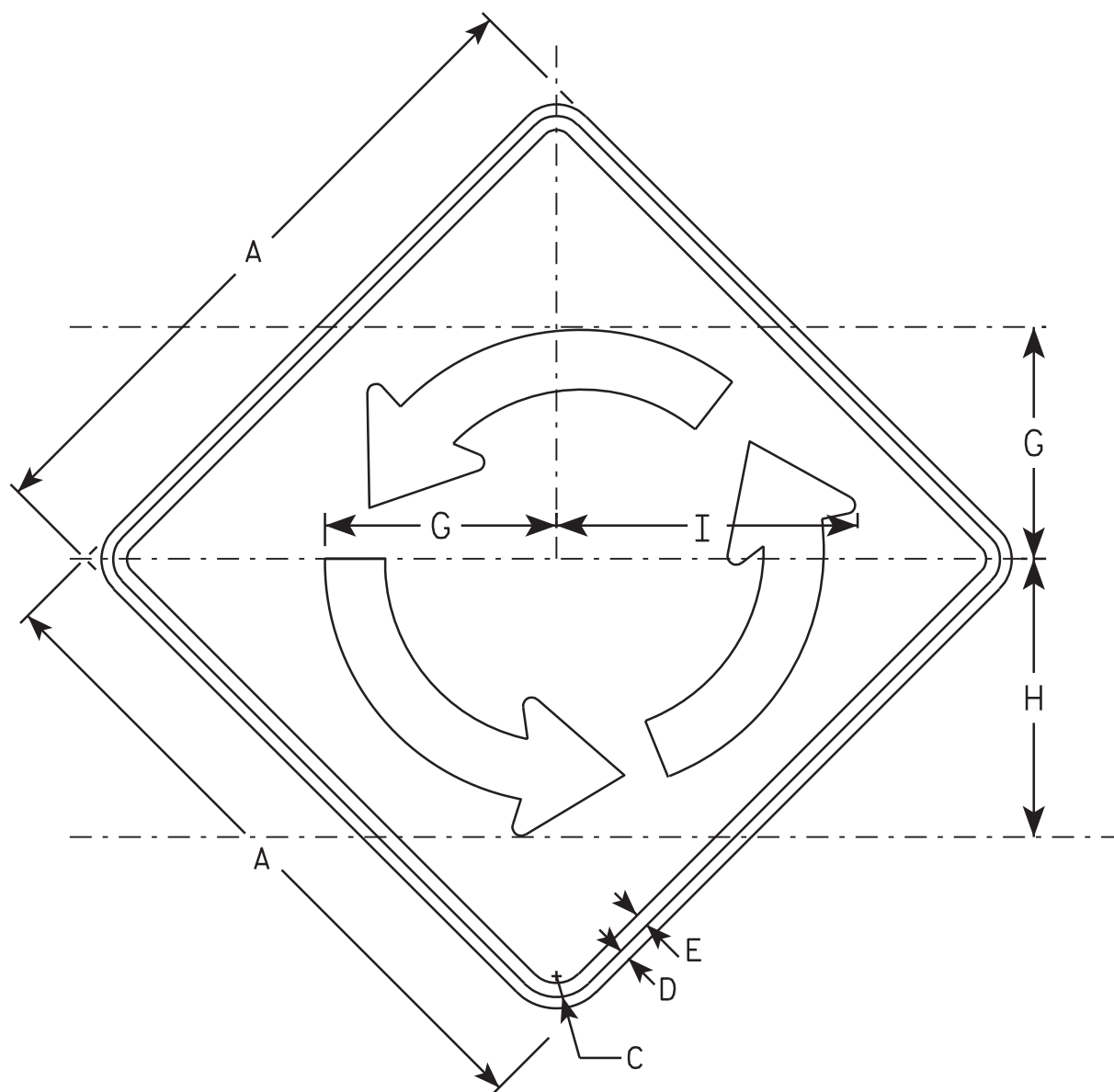
| SIZE | A  | B  | C     | D   | E   | F | G | H | I      | J      | K      | L  | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|----|-------|-----|-----|---|---|---|--------|--------|--------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |    |       |     |     |   |   |   |        |        |        |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 2    | 24 | 18 | 1 1/8 | 3/8 | 1/2 | 5 | 3 | 2 | 10 1/4 | 9 3/4  | 9 3/8  | 10 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3.0             |
| 2    | 24 | 18 | 1 1/8 | 3/8 | 1/2 | 5 | 3 | 2 | 10 1/4 | 9 3/4  | 9 3/8  | 10 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3.0             |
| 3    | 30 | 24 | 1 1/8 | 3/8 | 1/2 | 6 | 4 | 4 | 12 1/4 | 11 3/4 | 11 1/4 | 12 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5.0             |
| 4    |    |    |       |     |     |   |   |   |        |        |        |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
| 5    |    |    |       |     |     |   |   |   |        |        |        |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |

STANDARD SIGN  
R14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

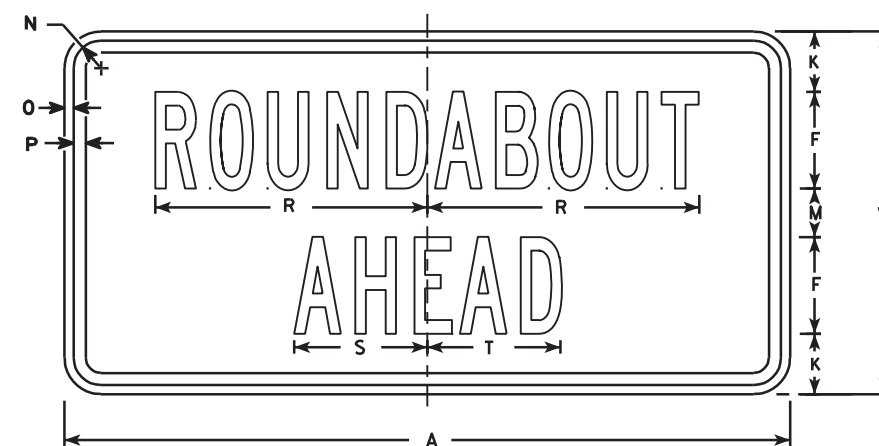
DATE 4/1/11 PLATE NO. R14-1.6



W2-6

### NOTES

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



W2-6P

|      |    |   |       |     |     |   |        |        |        |    |       |   |       |       |     |     |   |        |       |       |   |   |   | W2-6 | W2-6P           |                 |
|------|----|---|-------|-----|-----|---|--------|--------|--------|----|-------|---|-------|-------|-----|-----|---|--------|-------|-------|---|---|---|------|-----------------|-----------------|
| SIZE | A  | B | C     | D   | E   | F | G      | H      | I      | J  | K     | L | M     | N     | O   | P   | O | R      | S     | T     | U | V | W | X    | Area<br>sq. ft. | Area<br>sq. ft. |
| 1    |    |   |       |     |     |   |        |        |        |    |       |   |       |       |     |     |   |        |       |       |   |   |   |      |                 |                 |
| 2S   | 30 |   | 1 3⁄8 | 1⁄2 | 5⁄8 | 4 | 10 3⁄8 | 12 1⁄2 | 13 1⁄2 | 15 | 2 1⁄2 |   | 2     | 1 1⁄8 | 3⁄8 | 1⁄2 |   | 11 1⁄4 | 5 1⁄2 | 5 1⁄2 |   |   |   |      | 6.25            | 3.12            |
| 2M   | 30 |   | 1 3⁄8 | 1⁄2 | 5⁄8 | 4 | 10 3⁄8 | 12 1⁄2 | 13 1⁄2 | 15 | 2 1⁄2 |   | 2     | 1 1⁄8 | 3⁄8 | 1⁄2 |   | 11 1⁄4 | 5 1⁄2 | 5 1⁄2 |   |   |   |      | 6.25            | 3.12            |
| 3    | 36 |   | 1 5⁄8 | 5⁄8 | 3⁄4 | 5 | 12 1⁄2 | 15     | 16 1⁄4 | 18 | 2 5⁄8 |   | 2 3⁄4 | 1 1⁄8 | 3⁄8 | 1⁄2 |   | 14     | 7     | 6 3⁄4 |   |   |   |      | 9.00            | 4.50            |
| 4    | 48 |   | 2 1⁄4 | 3⁄4 | 1   | 6 | 16 5⁄8 | 20     | 16 1⁄4 | 24 | 4 3⁄8 |   | 3 5⁄8 | 1 3⁄8 | 1⁄2 | 5⁄8 |   | 17     | 8 1⁄4 | 8 1⁄4 |   |   |   |      | 16.0            | 8.0             |
| 5    |    |   |       |     |     |   |        |        |        |    |       |   |       |       |     |     |   |        |       |       |   |   |   |      |                 |                 |

### STANDARD SIGN W2-6

WISCONSIN DEPT OF TRANSPORTATION

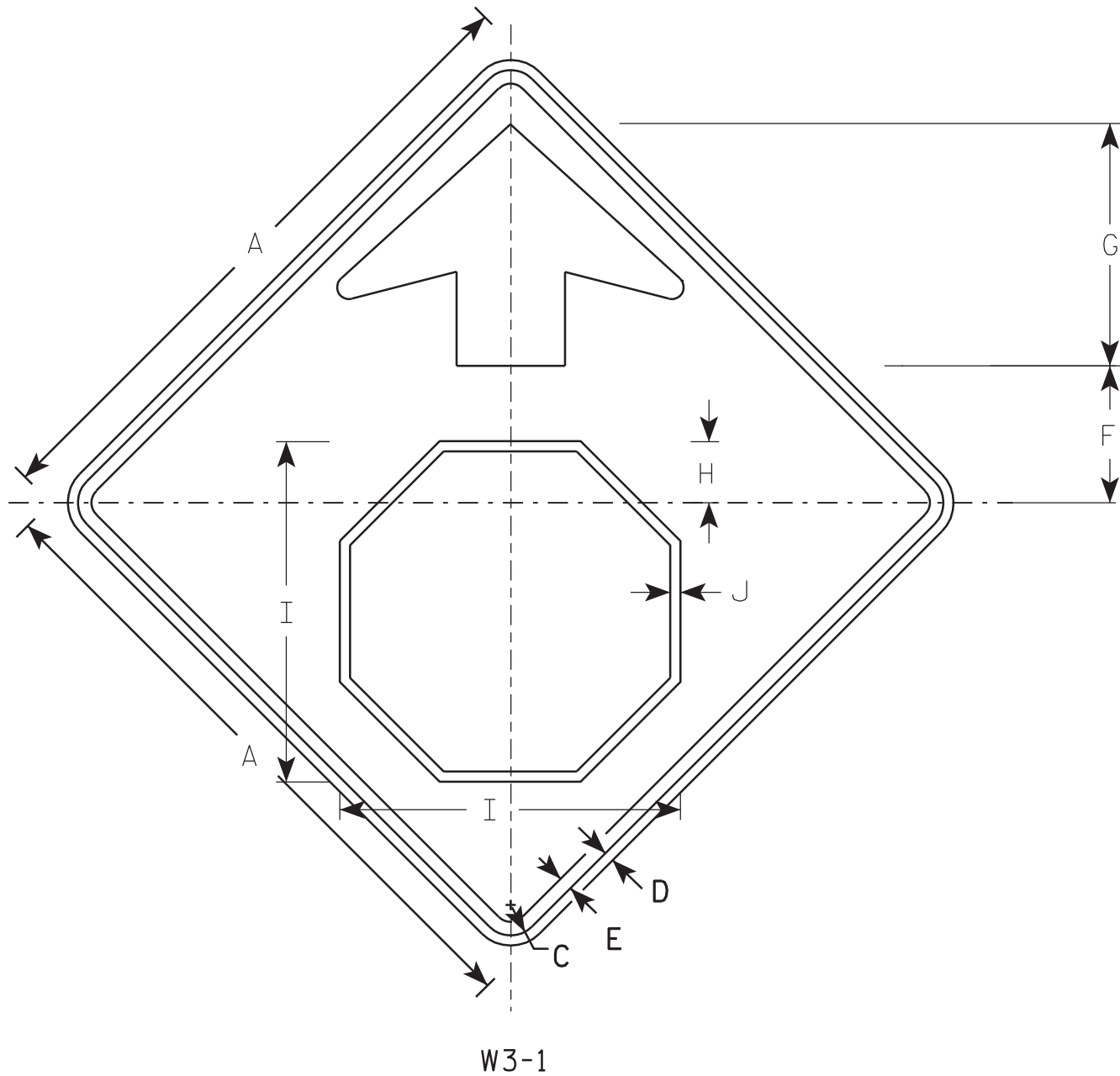
APPROVED *Matthew R. Rauch*  
For State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

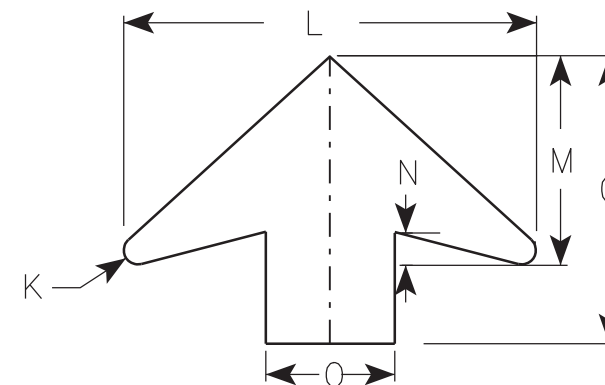
SHEET NO: 104

E



### NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - YELLOW  
Arrow & Border - BLACK  
Stop Symbol - WHITE BORDER ON RED 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<br>sq. ft. |
|------|----|---|-------|-----|-----|-------|--------|-------|--------|-----|-----|--------|-------|-------|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    | 30 |   | 1 3/8 | 1/2 | 5/8 | 6 1/4 | 11 1/4 | 2 7/8 | 15 3/4 | 1/2 | 1/2 | 16     | 8     | 1 1/4 | 5 |   |   |   |   |   |   |   |   |   |   |   | 6.25            |
| 2S   | 36 |   | 1 5/8 | 5/8 | 3/4 | 7 1/2 | 13 1/2 | 3 1/2 | 19     | 5/8 | 5/8 | 19 1/4 | 9 3/4 | 1 5/8 | 6 |   |   |   |   |   |   |   |   |   |   |   | 9.0             |
| 2M   | 36 |   | 1 5/8 | 5/8 | 3/4 | 7 1/2 | 13 1/2 | 3 1/2 | 19     | 5/8 | 5/8 | 19 1/4 | 9 3/4 | 1 5/8 | 6 |   |   |   |   |   |   |   |   |   |   |   | 9.0             |
| 3    | 36 |   | 1 5/8 | 5/8 | 3/4 | 7 1/2 | 13 1/2 | 3 1/2 | 19     | 5/8 | 5/8 | 19 1/4 | 9 3/4 | 1 5/8 | 6 |   |   |   |   |   |   |   |   |   |   |   | 9.0             |
| 4    | 48 |   | 2 1/4 | 3/4 | 1   | 10    | 17 7/8 | 4 1/2 | 25 1/8 | 3/4 | 7/8 | 25 5/8 | 13    | 2     | 8 |   |   |   |   |   |   |   |   |   |   |   | 16.0            |
| 5    | 48 |   | 2 1/4 | 3/4 | 1   | 10    | 17 7/8 | 4 1/2 | 25 1/8 | 3/4 | 7/8 | 25 5/8 | 13    | 2     | 8 |   |   |   |   |   |   |   |   |   |   |   | 16.0            |

PROJECT NO:

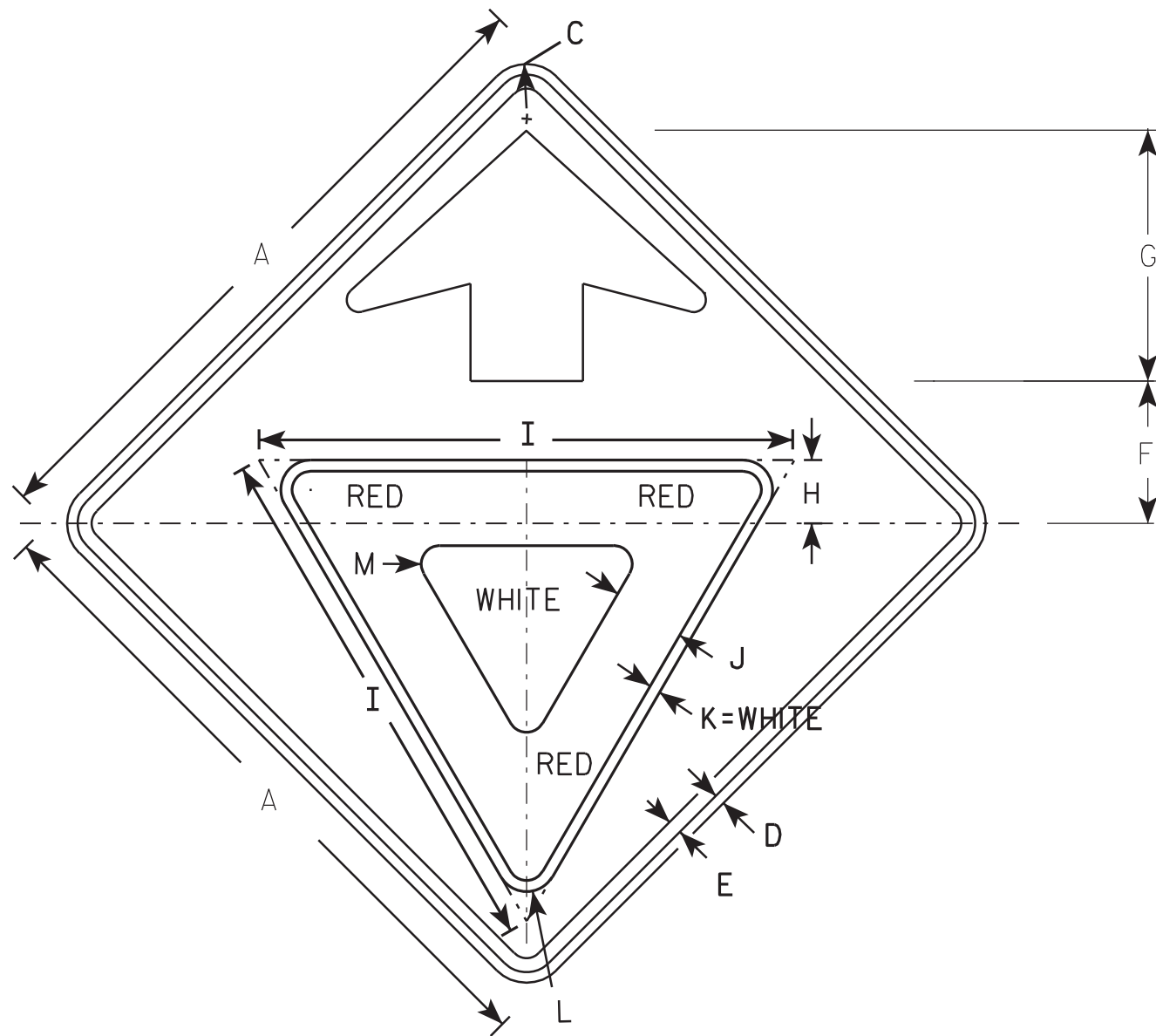
STANDARD SIGN  
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO: 105

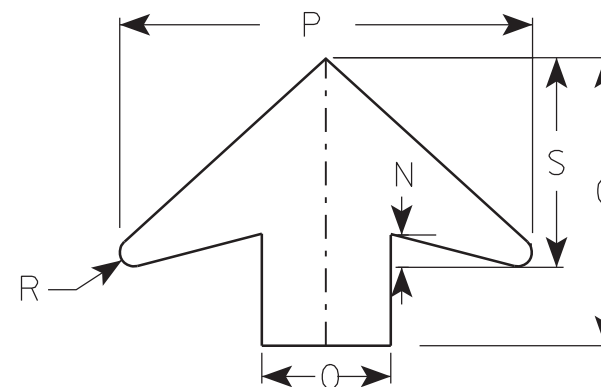
E



W3-2

### NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - YELLOW  
Arrow & Border - BLACK  
Yield Symbol - WHITE BORDER ON RED 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<br>sq. ft. |
|------|----|---|-------|-----|-----|-------|--------|-------|----|-------|-----|-------|-------|-------|---|--------|---|-----|-------|---|---|---|---|---|---|---|-----------------|
| 1    | 30 |   | 1 3/8 | 1/2 | 5/8 | 6 1/4 | 11 1/4 | 3     | 25 | 3 3/8 | 1/2 | 1 3/8 | 7/8   | 1 1/4 | 5 | 16     |   | 1/2 | 8     |   |   |   |   |   |   |   | 6.25            |
| 2S   | 36 |   | 1 5/8 | 5/8 | 3/4 | 7 1/2 | 13 1/2 | 3 3/8 | 28 | 3 3/4 | 5/8 | 1 1/2 | 1     | 1 5/8 | 6 | 19 1/4 |   | 5/8 | 9 3/4 |   |   |   |   |   |   |   | 9.0             |
| 2M   | 36 |   | 1 5/8 | 5/8 | 3/4 | 7 1/2 | 13 1/2 | 3 3/8 | 28 | 3 3/4 | 5/8 | 1 1/2 | 1     | 1 5/8 | 6 | 19 1/4 |   | 5/8 | 9 3/4 |   |   |   |   |   |   |   | 9.0             |
| 3    | 36 |   | 1 5/8 | 5/8 | 3/4 | 7 1/2 | 13 1/2 | 3 3/8 | 28 | 3 3/4 | 5/8 | 1 1/2 | 1     | 1 5/8 | 6 | 19 1/4 |   | 5/8 | 9 3/4 |   |   |   |   |   |   |   | 9.0             |
| 4    | 48 |   | 2 1/4 | 3/4 | 1   | 10    | 17 7/8 | 4 1/2 | 38 | 5     | 3/4 | 2 1/8 | 1 3/8 | 2     | 8 | 25 5/8 |   | 7/8 | 13    |   |   |   |   |   |   |   | 16.0            |
| 5    | 48 |   | 2 1/4 | 3/4 | 1   | 10    | 17 7/8 | 4 1/2 | 38 | 5     | 3/4 | 2 1/8 | 1 3/8 | 2     | 8 | 25 5/8 |   | 7/8 | 13    |   |   |   |   |   |   |   | 16.0            |

|             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |               |   |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------|---|
| PROJECT NO: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SHEET NO: 106 | E |
|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------|---|

STANDARD SIGN

W3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer  
DATE 6/7/10 PLATE NO. W3-2..9



W4-4P

NOTES

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

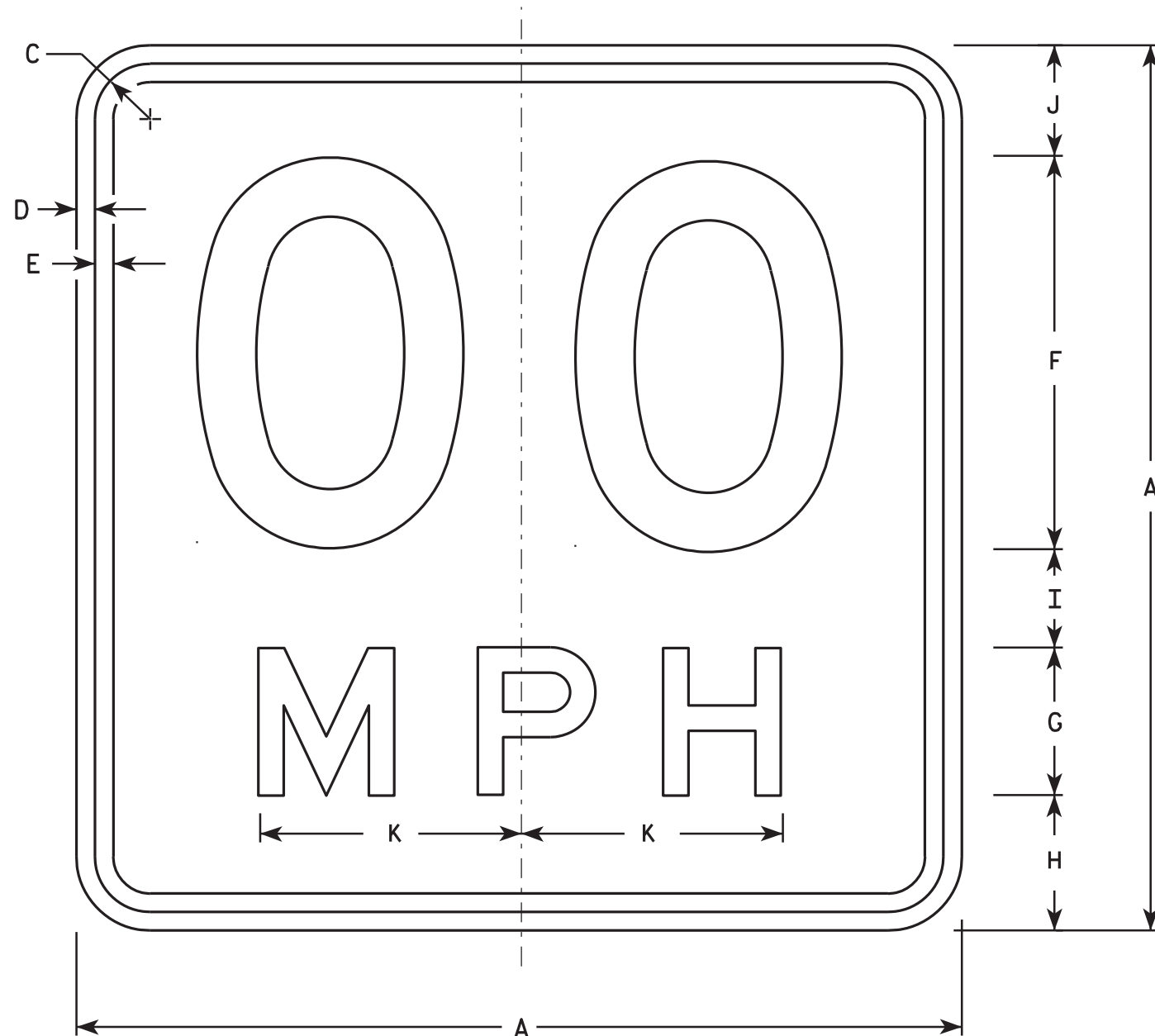
| SIZE | A  | B  | C     | D   | E   | F | G     | H     | I      | J     | K   | L      | M      | N     | O     | P      | Q | R | S | T | U | V | W | X | Y | Z | Area<br>sq. ft. |
|------|----|----|-------|-----|-----|---|-------|-------|--------|-------|-----|--------|--------|-------|-------|--------|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    |    |    |       |     |     |   |       |       |        |       |     |        |        |       |       |        |   |   |   |   |   |   |   |   |   |   |                 |
| 2S   | 24 | 12 | 1 1/8 | 3/8 | 3/8 | 3 | 2 1/4 | 1 1/2 | 8      | 1 1/2 | 3/8 | 10     | 6 1/4  | 2 1/4 | 2 1/4 | 6 1/4  |   |   |   |   |   |   |   |   |   |   | 2.0             |
| 2M   | 24 | 12 | 1 1/8 | 3/8 | 3/8 | 3 | 2 1/4 | 1 1/2 | 8      | 1 1/2 | 3/8 | 10     | 6 1/4  | 2 1/4 | 2 1/4 | 6 1/4  |   |   |   |   |   |   |   |   |   |   | 2.0             |
| 3    | 36 | 15 | 1 1/8 | 3/8 | 1/2 | 4 | 2 5/8 | 1 3/4 | 10 3/4 | 2 3/8 | 3/8 | 13 1/2 | 8 3/8  | 3     | 3 1/8 | 8 3/8  |   |   |   |   |   |   |   |   |   |   | 3.75            |
| 4    | 42 | 18 | 1 1/8 | 3/8 | 1/2 | 5 | 3     | 2     | 13 3/8 | 3 1/8 | 3/8 | 16 7/8 | 10 1/2 | 3 5/8 | 3 7/8 | 10 3/8 |   |   |   |   |   |   |   |   |   |   | 5.25            |
| 5    |    |    |       |     |     |   |       |       |        |       |     |        |        |       |       |        |   |   |   |   |   |   |   |   |   |   |                 |

STANDARD SIGN  
W4 - 4P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4P.2



### NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:  
Background - Yellow  
Message - Black
3. Message Series - See Note 6
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 space about centerline to achieve proper balance.
6. Line 1 is Series D  
Line 2 is Series E

W13-1

\* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.  
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

| 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<br>Sq. Ft. |
|------|----|---|-------|-----|-----|----|---|-------|-------|-------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
| 1    | 18 |   | 1 1/8 | 3/8 | 3/8 | 8  | 3 | 2 3/4 | 2     | 2 1/4 | 5 3/8  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.25            |
| * 2S | 18 |   | 1 1/8 | 3/8 | 3/8 | 8  | 3 | 2 3/4 | 2     | 2 1/4 | 5 3/8  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.25            |
| * 2M | 18 |   | 1 1/8 | 3/8 | 3/8 | 8  | 3 | 2 3/4 | 2     | 2 1/4 | 5 3/8  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.25            |
| 3    | 24 |   | 1 1/8 | 3/8 | 1/2 | 10 | 4 | 4     | 2 3/4 | 3 1/4 | 6 5/8  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4.00            |
| 4    | 36 |   | 1 5/8 | 5/8 | 3/4 | 16 | 6 | 5 1/2 | 4     | 4 1/2 | 10 5/8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 9.00            |
| 5    | 36 |   | 1 5/8 | 5/8 | 3/4 | 16 | 6 | 5 1/2 | 4     | 4 1/2 | 10 5/8 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 9.00            |

### STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*  
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 108

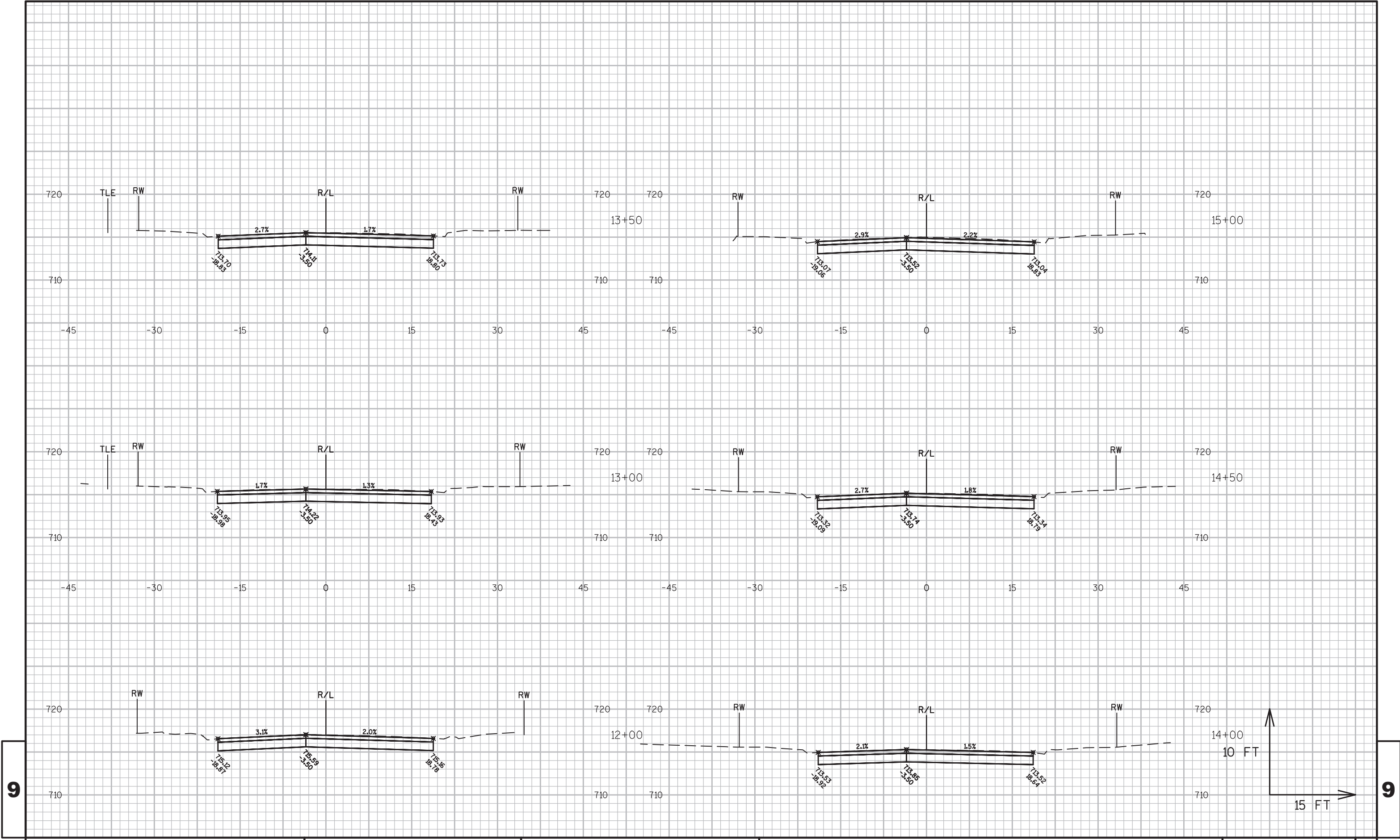
E

| EARTHWORK |          |                   |                      |                     |
|-----------|----------|-------------------|----------------------|---------------------|
| STATION   | DISTANCE | END AREA CUT (SF) | INCREMENTAL CUT (CY) | CUMULATIVE CUT (CY) |
| 11+70     | 0        | 53.8              | 0                    | 0                   |
| 12+00     | 30       | 53.8              | 59.8                 | 60                  |
| 13+00     | 100      | 53.8              | 199.4                | 259                 |
| 14+00     | 100      | 53.8              | 199.4                | 459                 |
| 15+00     | 100      | 53.8              | 199.4                | 658                 |
| 16+00     | 100      | 53.8              | 199.4                | 857                 |
| 17+00     | 100      | 53.8              | 199.4                | 1057                |
| 18+00     | 100      | 53.8              | 199.4                | 1256                |
| 19+00     | 100      | 53.8              | 199.4                | 1455                |
| 20+00     | 100      | 53.8              | 199.4                | 1655                |
| 21+00     | 100      | 53.8              | 199.4                | 1854                |
| 22+00     | 100      | 53.8              | 199.4                | 2054                |
| 23+00     | 100      | 53.8              | 199.4                | 2253                |
| 24+00     | 100      | 53.8              | 199.4                | 2452                |
| 24+40     | 40       | 106.3             | 118.6                | 2571                |
| 25+00     | 60       | 53.8              | 177.9                | 2749                |
| 26+00     | 100      | 53.8              | 199.4                | 2948                |
| 27+00     | 100      | 53.8              | 199.4                | 3148                |
| 27+45     | 45       | 76.5              | 108.6                | 3256                |
| 28+00     | 55       | 53.8              | 132.7                | 3389                |
| 29+00     | 100      | 53.8              | 199.4                | 3588                |
| 30+00     | 100      | 53.8              | 199.4                | 3788                |
| 30+35     | 35       | 76.5              | 84.5                 | 3872                |
| 31+00     | 65       | 53.8              | 156.9                | 4029                |
| 32+00     | 100      | 53.8              | 199.4                | 4228                |
| 33+00     | 100      | 53.8              | 199.4                | 4428                |
| 33+30     | 30       | 76.5              | 72.4                 | 4500                |
| 34+00     | 70       | 53.8              | 169.0                | 4669                |
| 35+00     | 100      | 53.8              | 199.4                | 4869                |
| 36+00     | 100      | 53.8              | 199.4                | 5068                |
| 36+30     | 30       | 104.8             | 88.1                 | 5156                |
| 37+00     | 70       | 53.8              | 205.7                | 5362                |
| 38+00     | 100      | 53.8              | 199.4                | 5561                |
| 39+00     | 100      | 53.8              | 199.4                | 5761                |
| 39+50     | 50       | 104.8             | 146.9                | 5908                |
| 40+00     | 50       | 53.8              | 146.9                | 6054                |
| 41+00     | 100      | 53.8              | 199.4                | 6254                |
| 42+00     | 100      | 53.8              | 199.4                | 6453                |
| 42+60     | 60       | 104.8             | 176.3                | 6629                |
| 43+00     | 40       | 53.8              | 117.5                | 6747                |
| 44+00     | 100      | 53.8              | 199.4                | 6946                |
| 45+00     | 100      | 53.8              | 199.4                | 7146                |
| 46+00     | 100      | 53.8              | 199.4                | 7345                |
| 47+00     | 100      | 53.83             | 199.4                | 7545                |
| 48+00     | 100      | 53.83             | 199.4                | 7744                |
| 48+20     | 20       | 104.83            | 58.8                 | 7803                |
| 49+00     | 80       | 53.83             | 235.1                | 8038                |
| 50+00     | 100      | 53.83             | 199.4                | 8237                |
| 51+00     | 100      | 53.83             | 199.4                | 8437                |
| 51+15     | 15       | 76.50             | 36.2                 | 8473                |
| 52+00     | 85       | 53.83             | 205.2                | 8678                |
| 53+00     | 100      | 53.83             | 199.4                | 8877                |
| 54+00     | 100      | 53.83             | 199.4                | 9077                |

| STATION | DISTANCE | END AREA CUT (SF) | INCREMENTAL CUT (CY) | CUMULATIVE CUT (CY) |
|---------|----------|-------------------|----------------------|---------------------|
| 54+00   | 0        | 72.3              | 0.0                  | 9077                |
| 55+00   | 100      | 72.3              | 267.6                | 9344                |
| 56+00   | 100      | 72.3              | 267.6                | 9612                |
| 57+00   | 100      | 72.3              | 267.6                | 9879                |
| 57+60   | 60       | 72.3              | 160.6                | 10040               |

| STATION | DISTANCE | END AREA CUT (SF) | INCREMENTAL CUT (CY) | CUMULATIVE CUT (CY) |
|---------|----------|-------------------|----------------------|---------------------|
| 57+60   | 0        | 62.3              | 0.0                  | 10040               |
| 57+85   | 25       | 83.6              | 67.6                 | 10108               |
| 58+00   | 15       | 62.3              | 40.5                 | 10148               |
| 59+00   | 100      | 62.3              | 230.9                | 10379               |
| 60+00   | 100      | 77.9              | 259.7                | 10639               |
| 61+00   | 100      | 62.3              | 259.7                | 10898               |
| 62+00   | 100      | 62.3              | 230.9                | 11129               |
| 63+00   | 100      | 62.3              | 230.9                | 11360               |
| 64+00   | 100      | 62.3              | 230.9                | 11591               |
| 65+00   | 100      | 62.3              | 230.9                | 11822               |
| 66+00   | 100      | 62.3              | 230.9                | 12053               |
| 67+00   | 100      | 62.3              | 230.9                | 12284               |
| 68+00   | 100      | 62.3              | 230.9                | 12514               |
| 69+00   | 100      | 62.3              | 230.9                | 12745               |
| 70+00   | 100      | 62.3              | 230.9                | 12976               |
| 70+35   | 35       | 83.6              | 94.6                 | 13071               |
| 71+00   | 65       | 62.3              | 175.6                | 13246               |
| EBS     |          |                   | 1324.6               | 14571               |

PROJECT TOTALS 14571



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET

110

E

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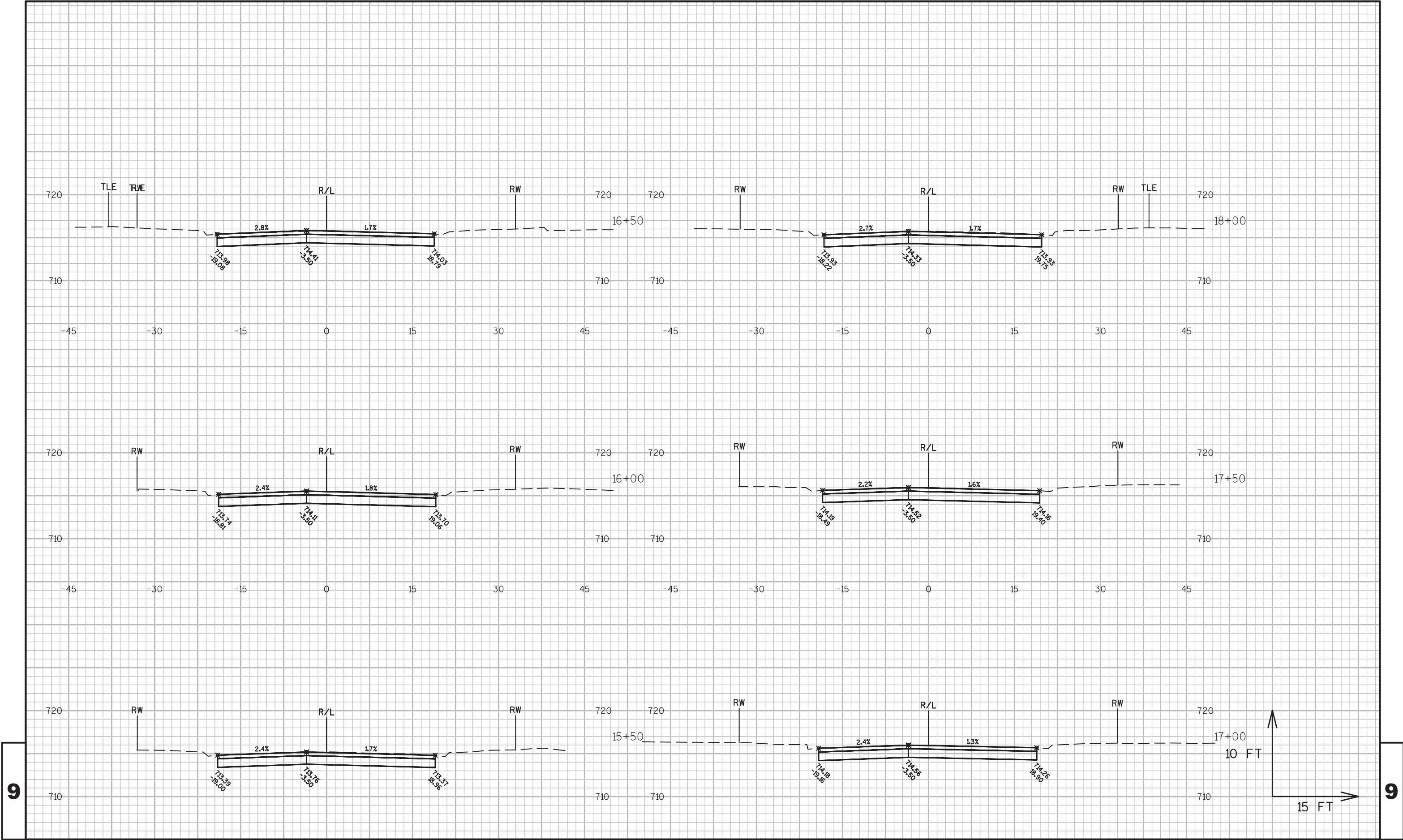
PLOT DATE : 12/16/2016 9:04 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

PLOT SCALE : 1 IN:15 FT

WISDOT/CADDs SHEET 49



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET

111

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0\NALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (2)

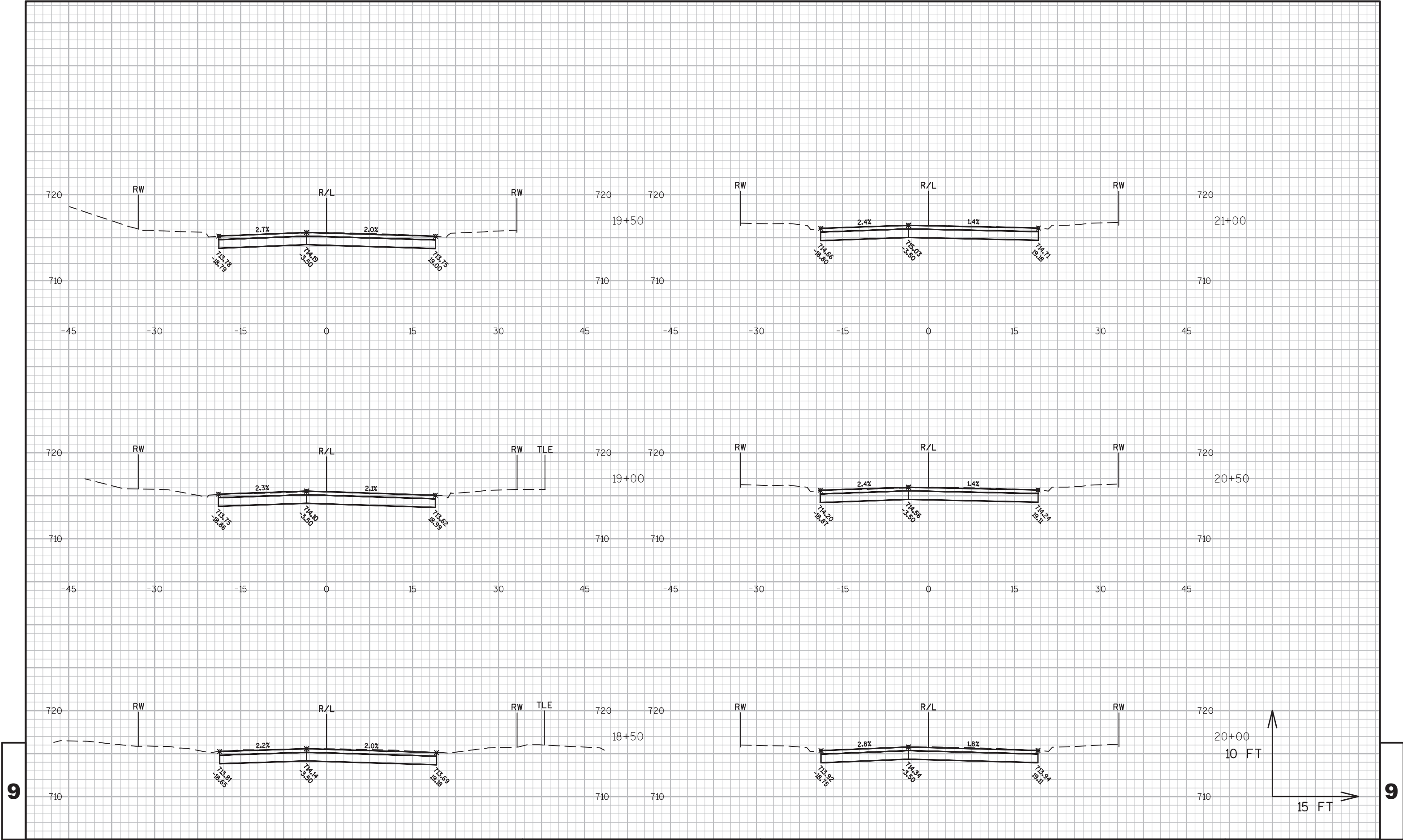
PLOT DATE : 12/16/2016 9:04 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

PLOT SCALE : 1 IN:15 FT

WISDOT/CADDs SHEET 49



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET

112

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0\NALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (3)

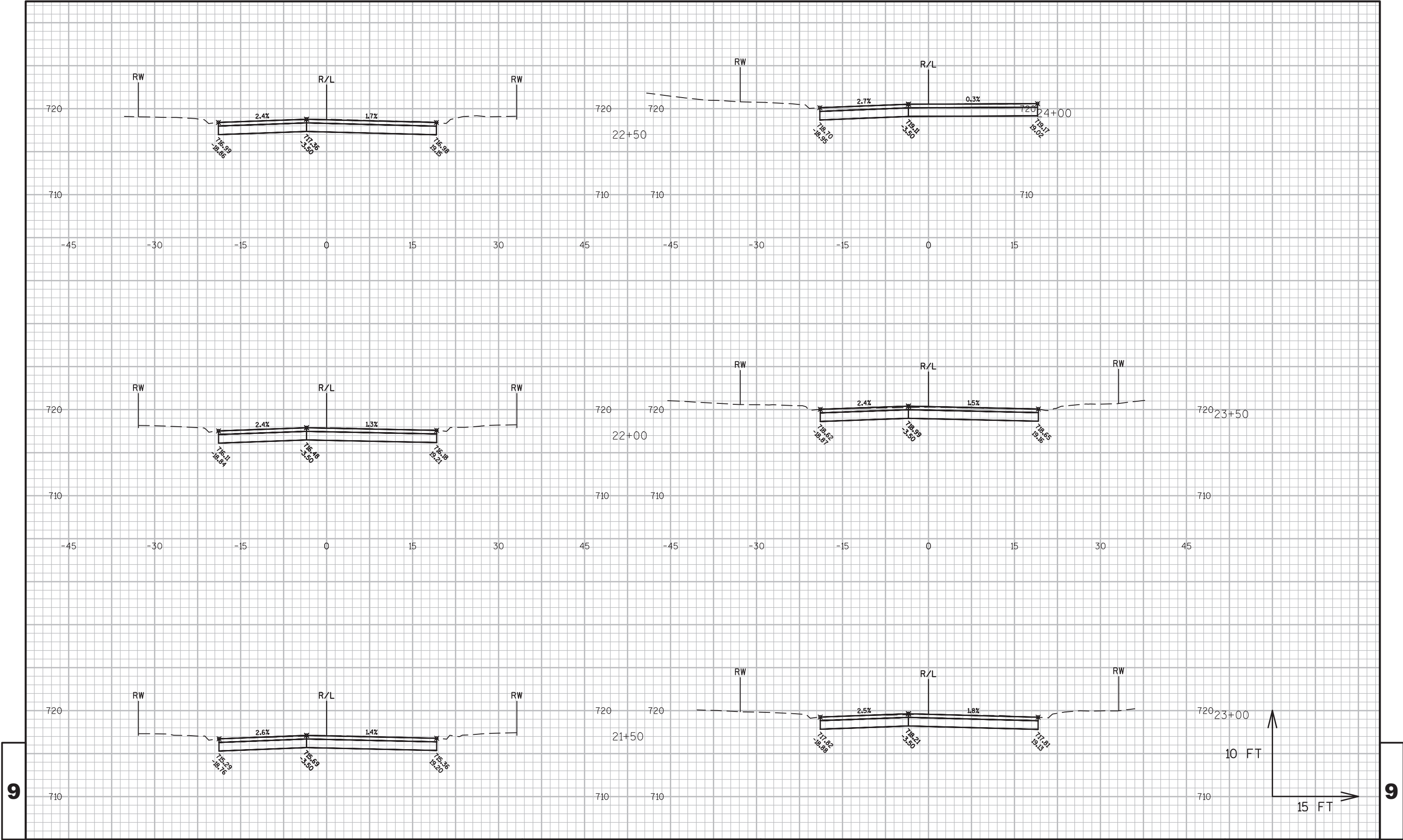
PLOT DATE : 12/16/2016 9:04 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

PLOT SCALE : 1 IN:15 FT

WISDOT/CADDs SHEET 49



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET

113

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0\NALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (4)

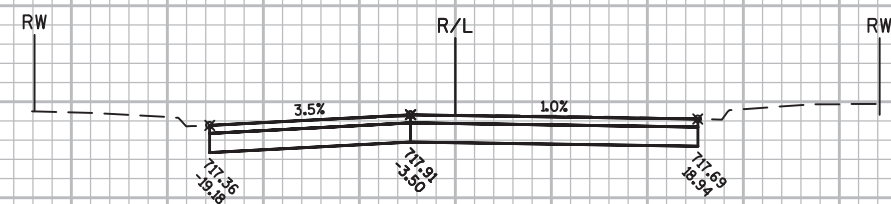
PLOT DATE : 12/16/2016 9:04 AM

PLOT BY : TOREY LEONARD

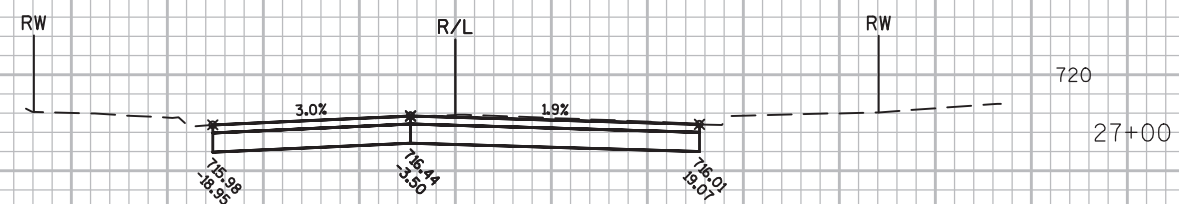
PLOT NAME :

PLOT SCALE : 1 IN:15 FT

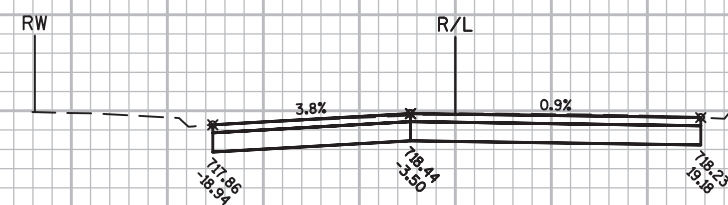
WISDOT/CADDs SHEET 49



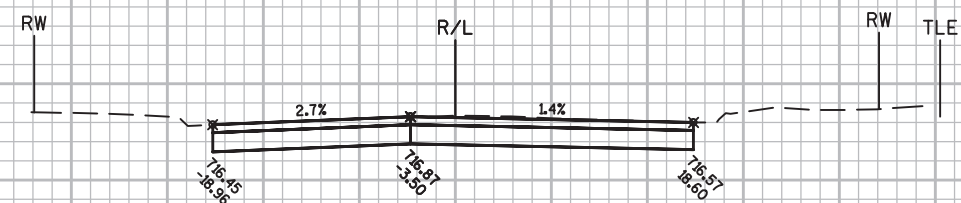
25+50



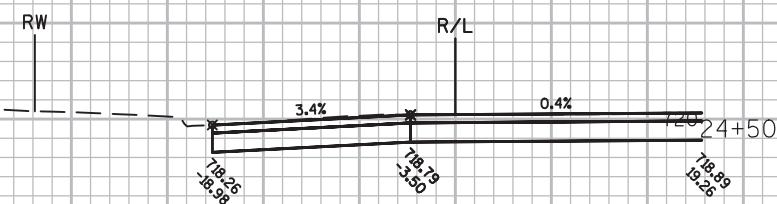
27+00



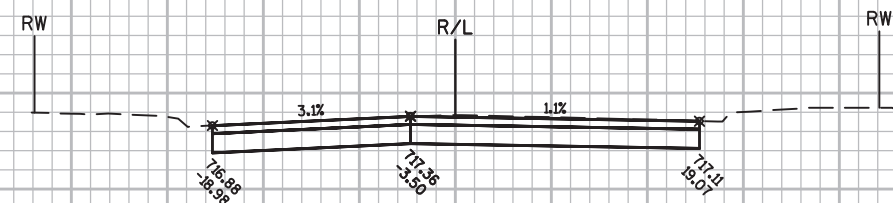
25+00



26+50



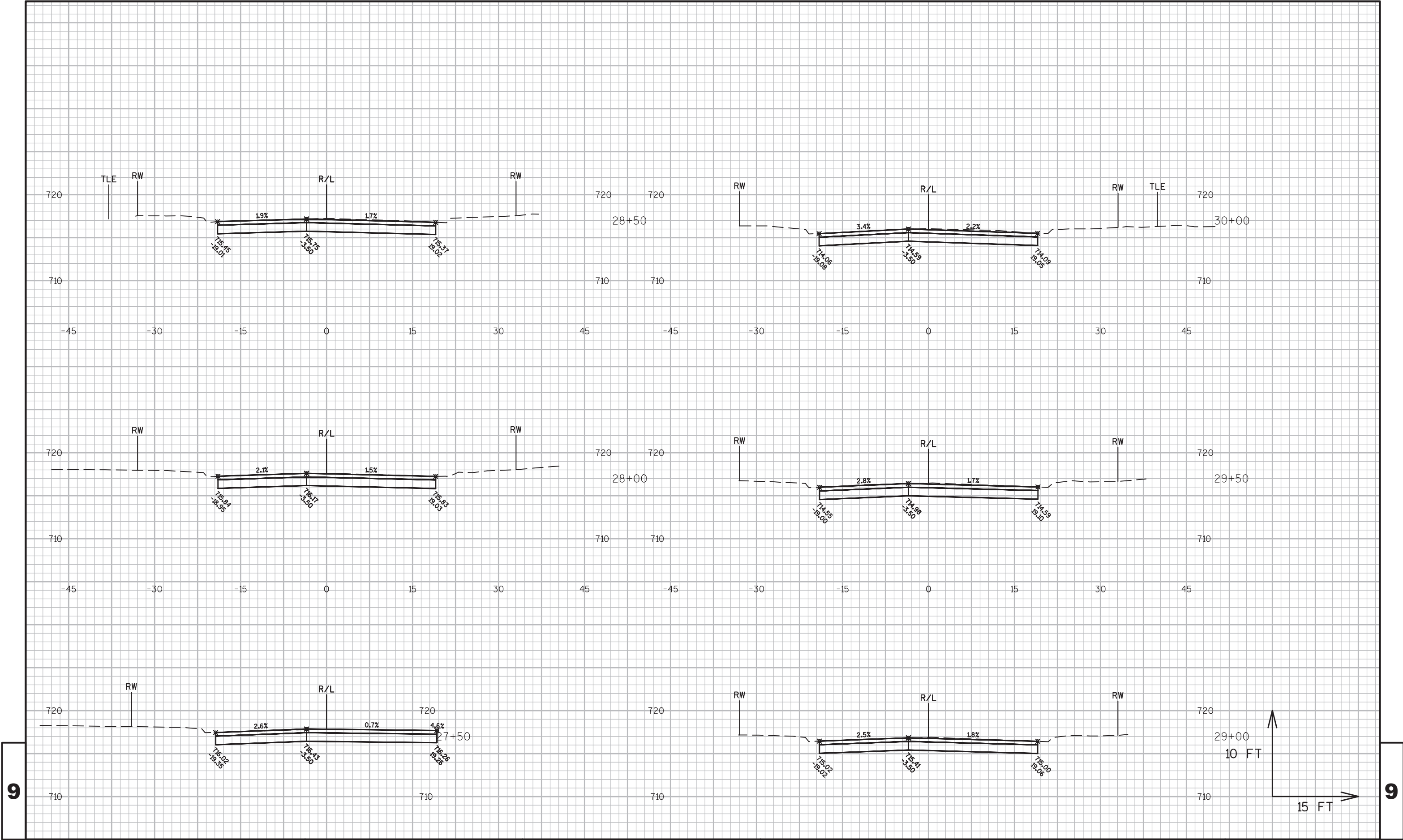
24+50



26+00

10 FT

15 FT



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET 115

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0\NALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (6)

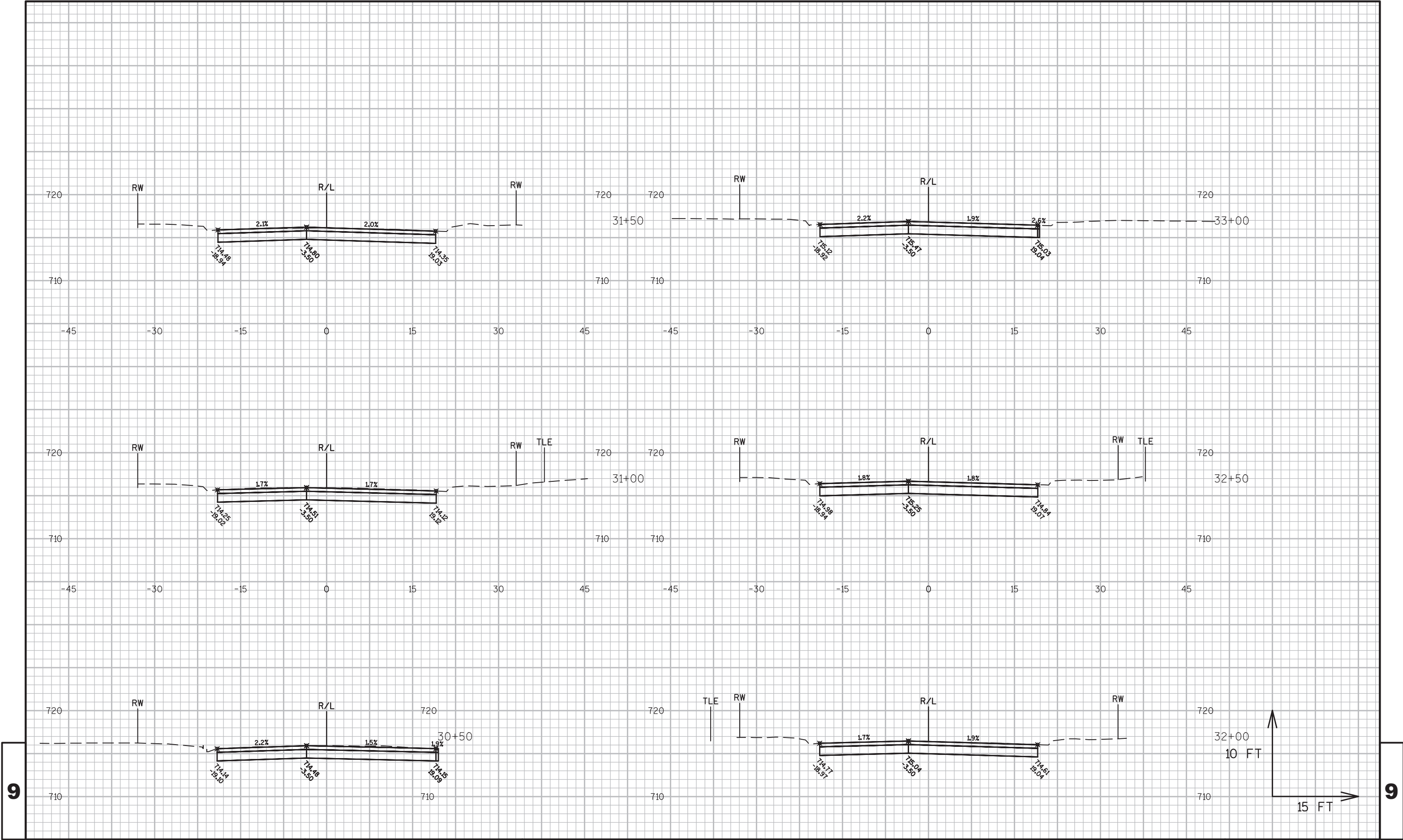
PLOT DATE : 12/16/2016 9:04 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

PLOT SCALE : 1 IN:15 FT

WISDOT/CADDs SHEET 49



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET

116

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0\NALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (7)

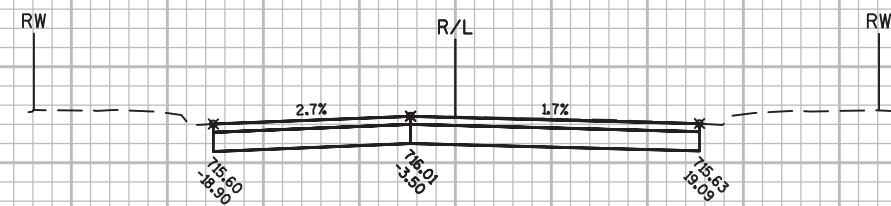
PLOT DATE : 12/16/2016 9:04 AM

PLOT BY : TOREY LEONARD

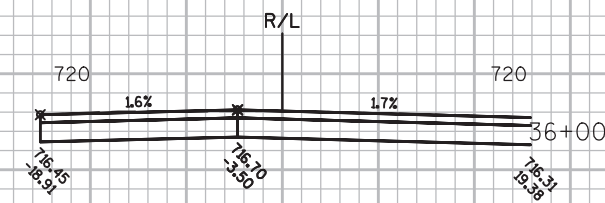
PLOT NAME :

PLOT SCALE : 1 IN:15 FT

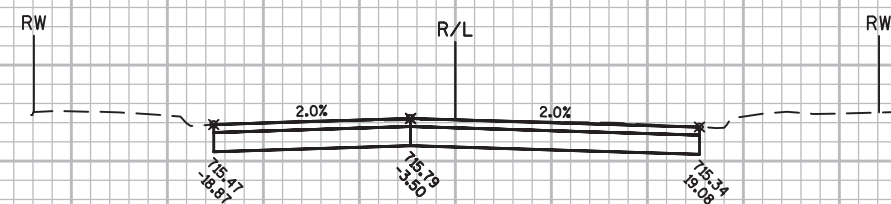
WISDOT/CADDs SHEET 49



720  
34+50  
710  
45



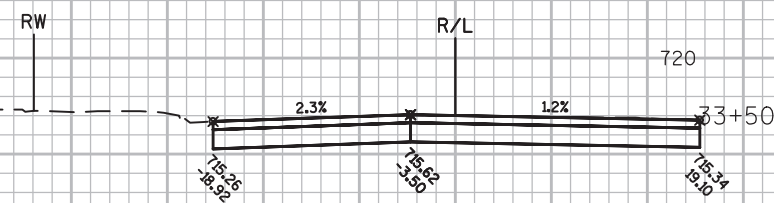
720  
36+00  
710  
15



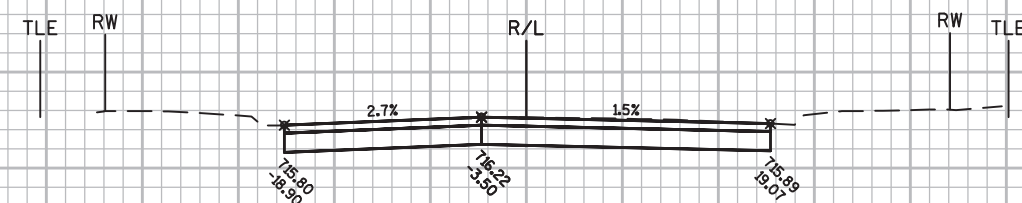
720  
34+00  
710  
45



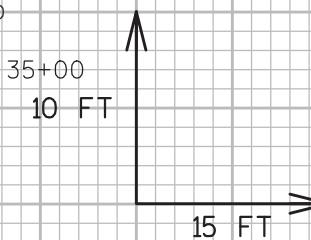
720  
35+50  
710  
15



720  
33+50  
710  
45



720  
35+00  
710  
15



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET 117

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0\NALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (8)

PLOT DATE : 12/16/2016 9:05 AM

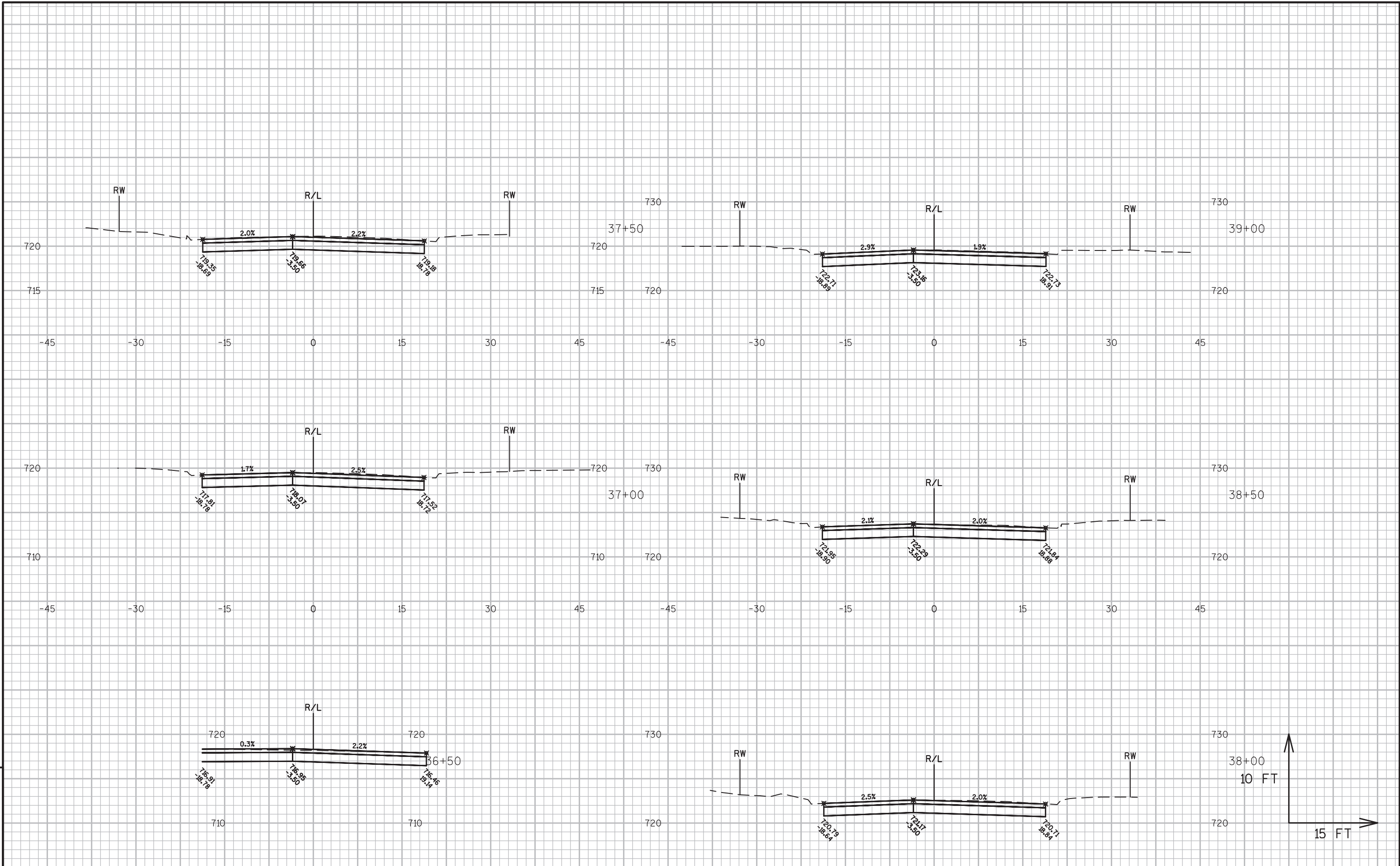
PLOT BY : TOREY LEONARD

PLOT NAME :

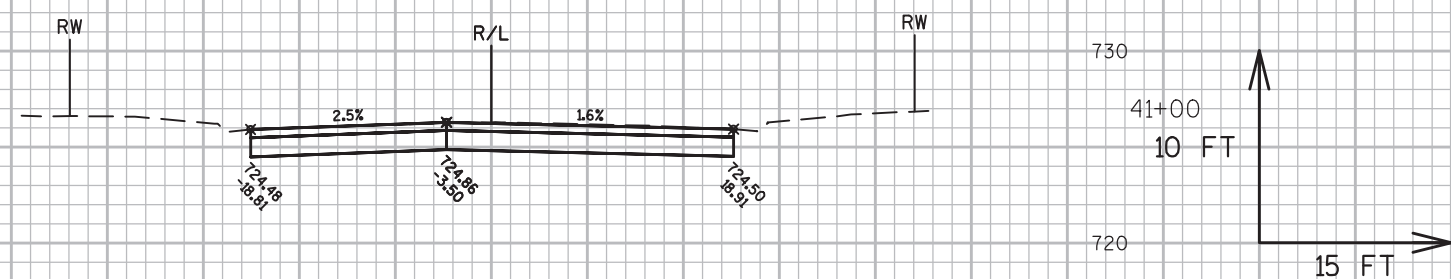
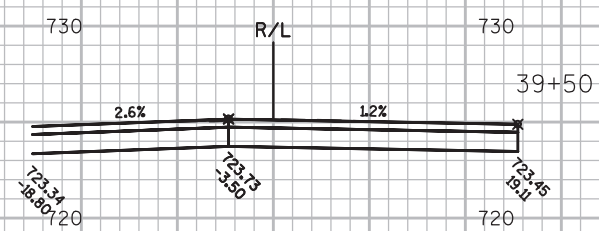
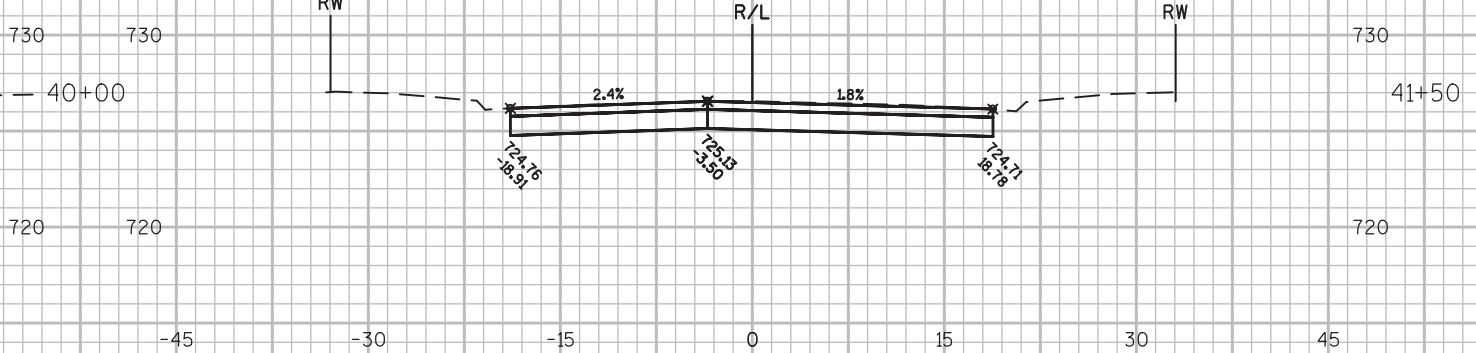
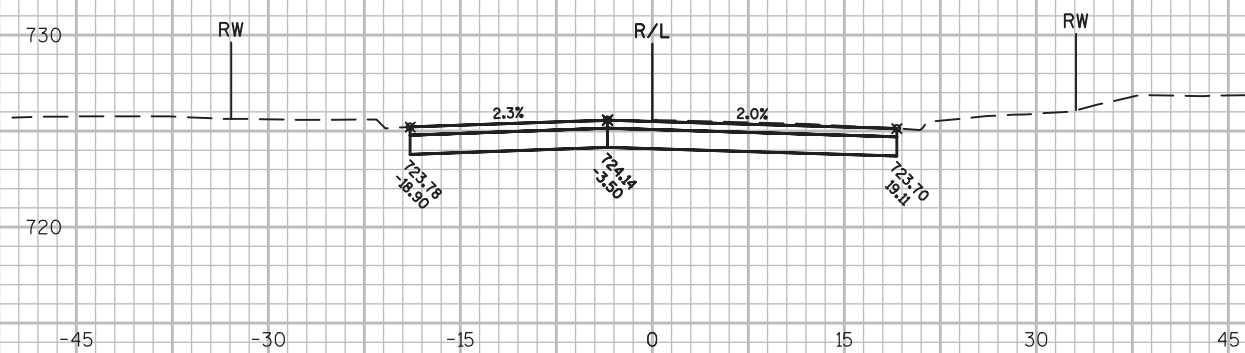
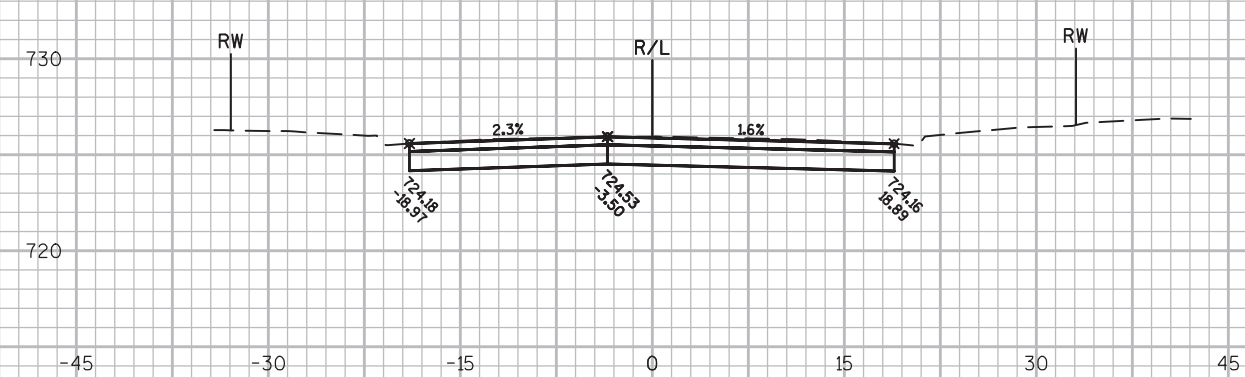
PLOT SCALE : 1 IN:15 FT

WISDOT/CADDs SHEET 49

9



9



PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

|       |     |
|-------|-----|
| SHEET | 119 |
|-------|-----|

FILE NAME : \\SEHLX1\PROJECTS\K0\0\ONALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (10)

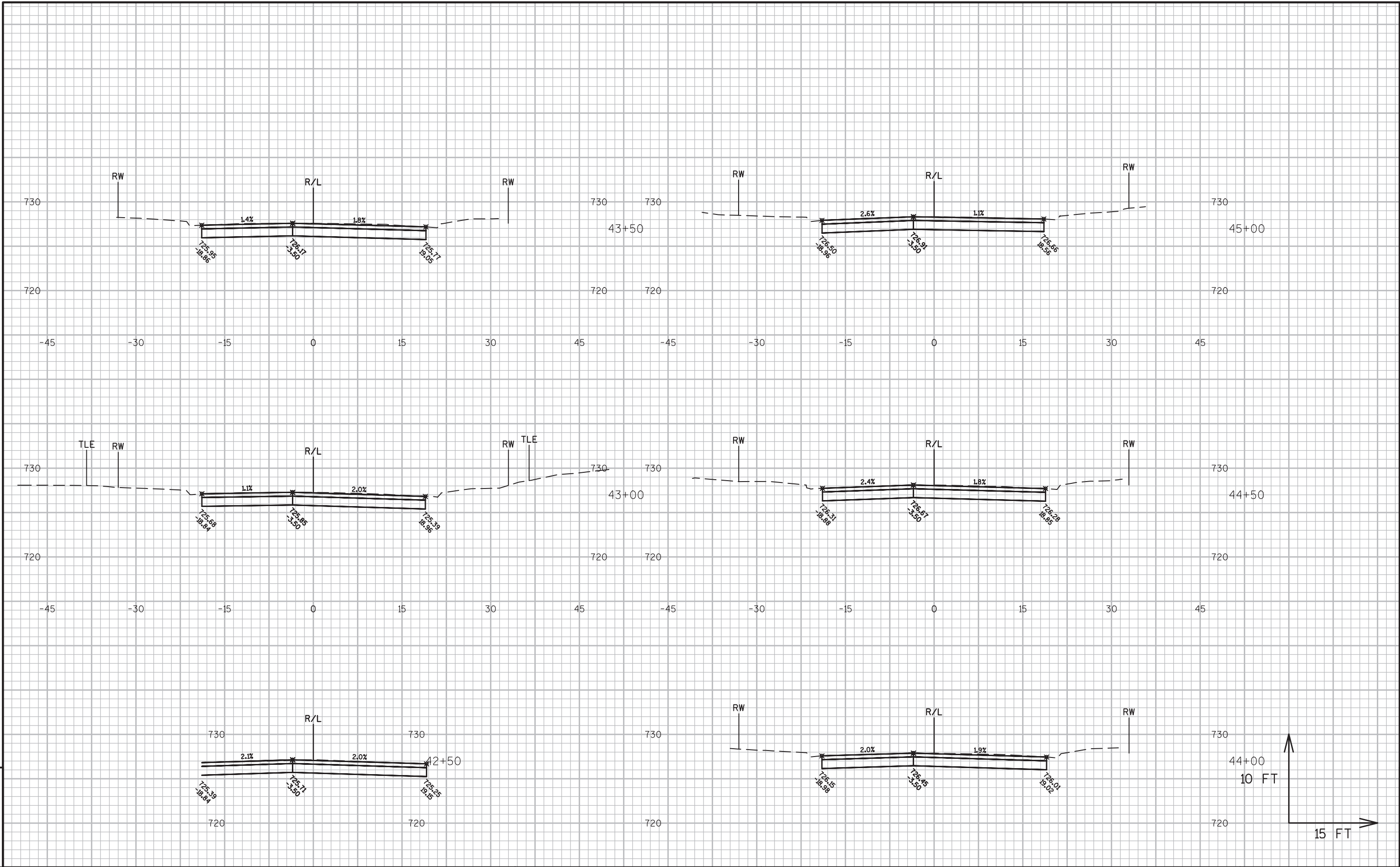
PLOT DATE : 12/16/2016 9:05 AM

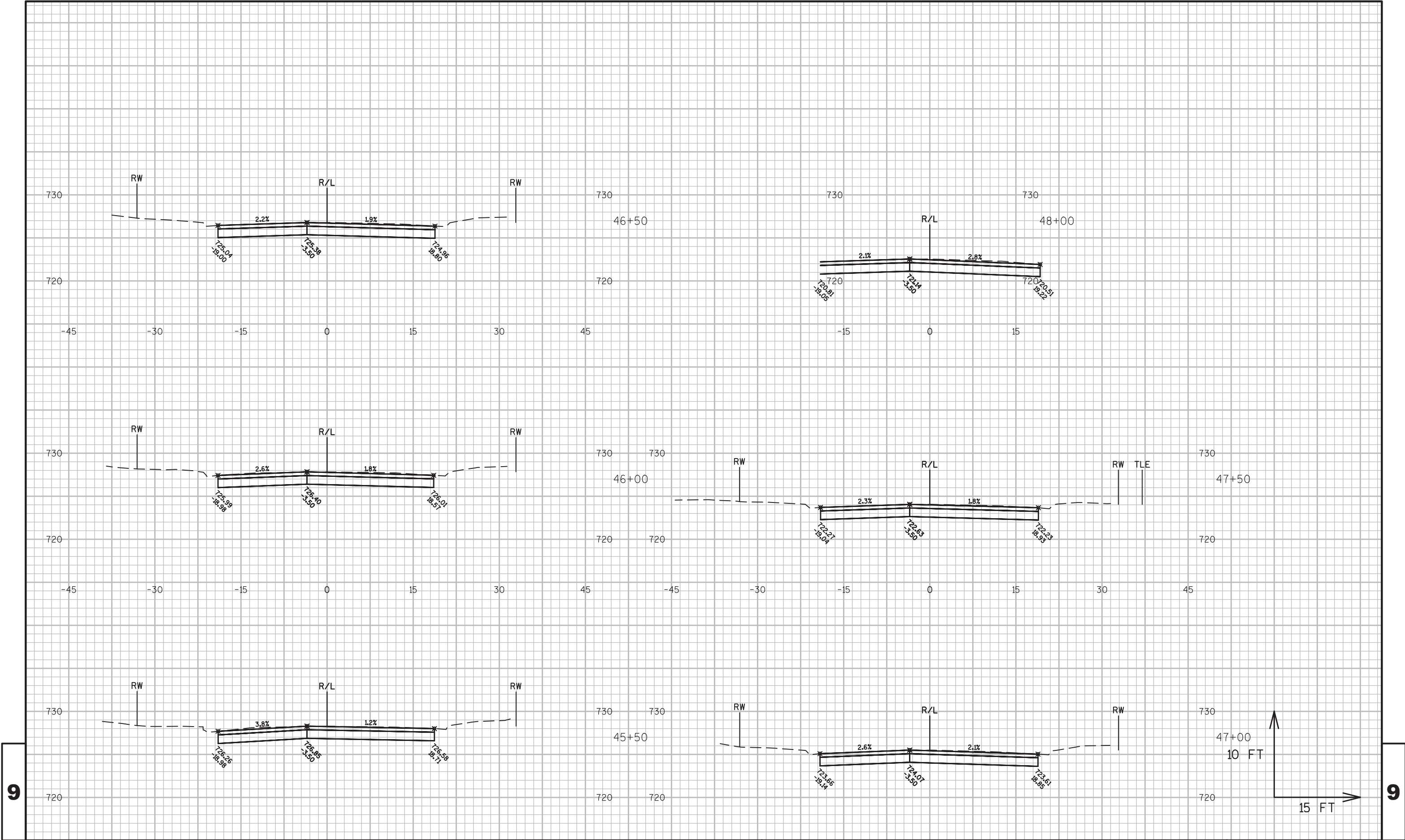
PLOT BY : TOREY LEONARD

PLOT NAME :

PLOT SCALE : 1 IN:15 FT

WISDOT/CADDS SHEET 49





PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET

121

E

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0\NALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (12)

PLOT DATE : 12/16/2016 9:05 AM

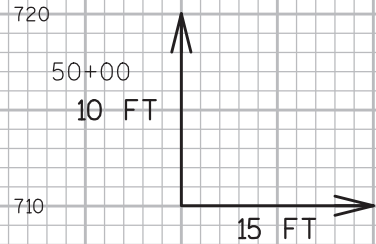
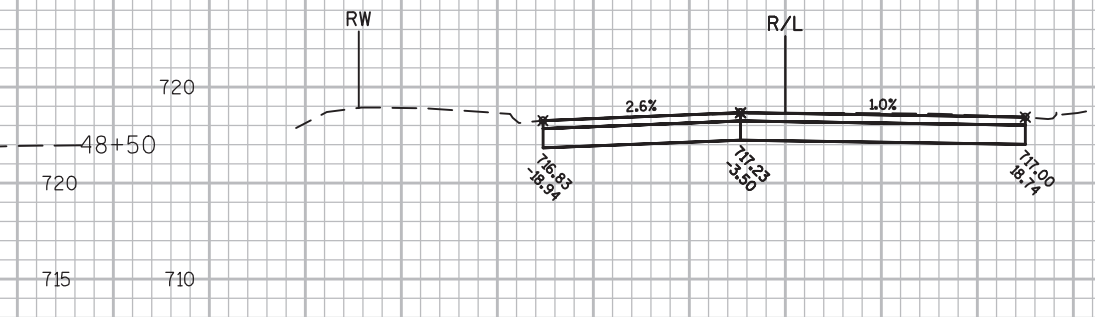
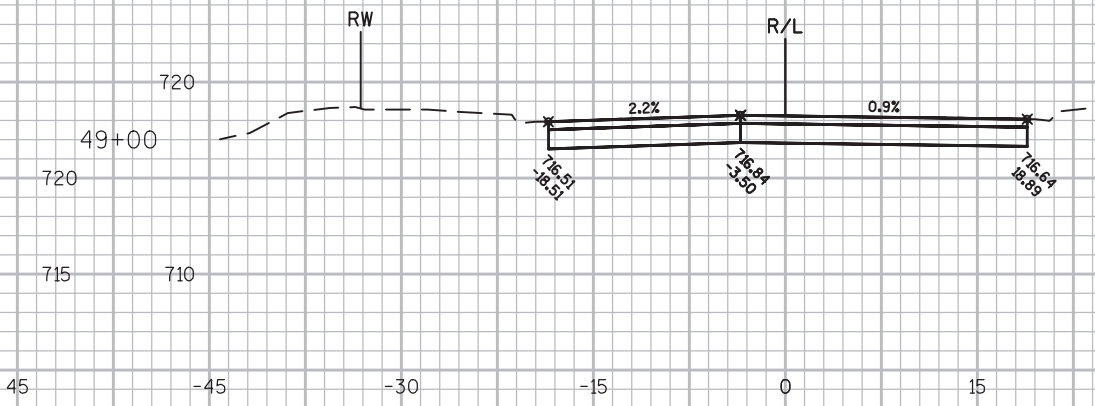
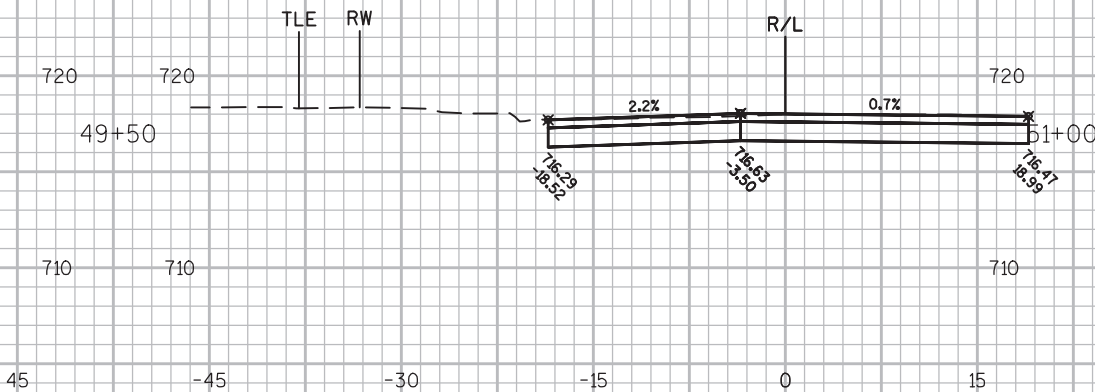
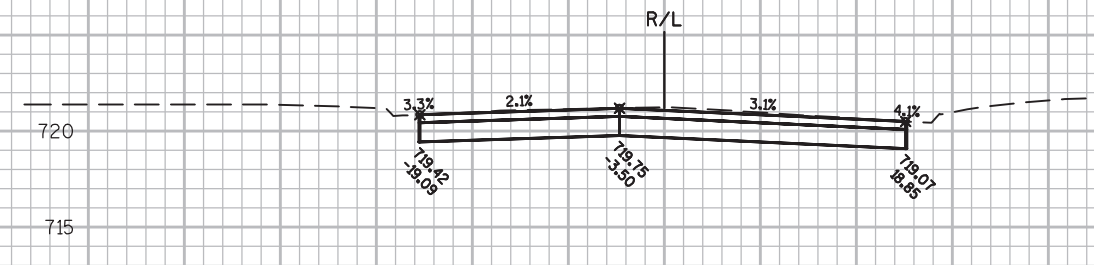
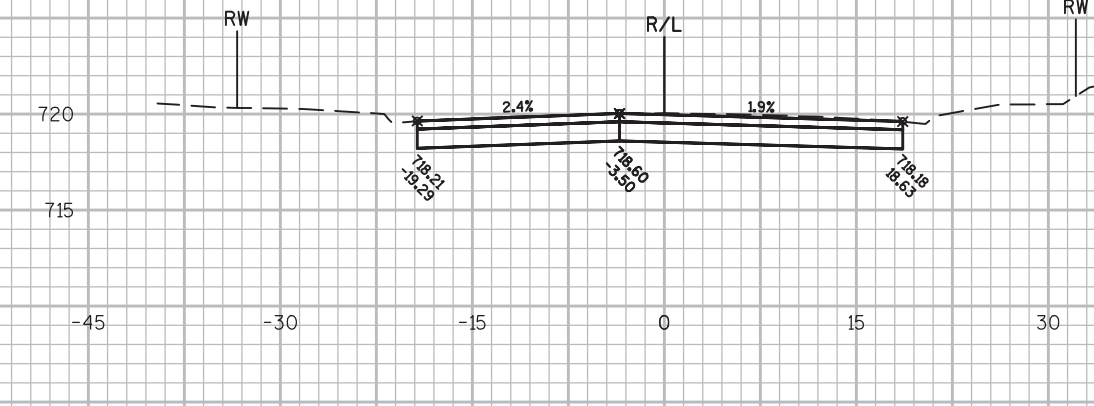
PLOT BY : TOREY LEONARD

PLOT NAME :

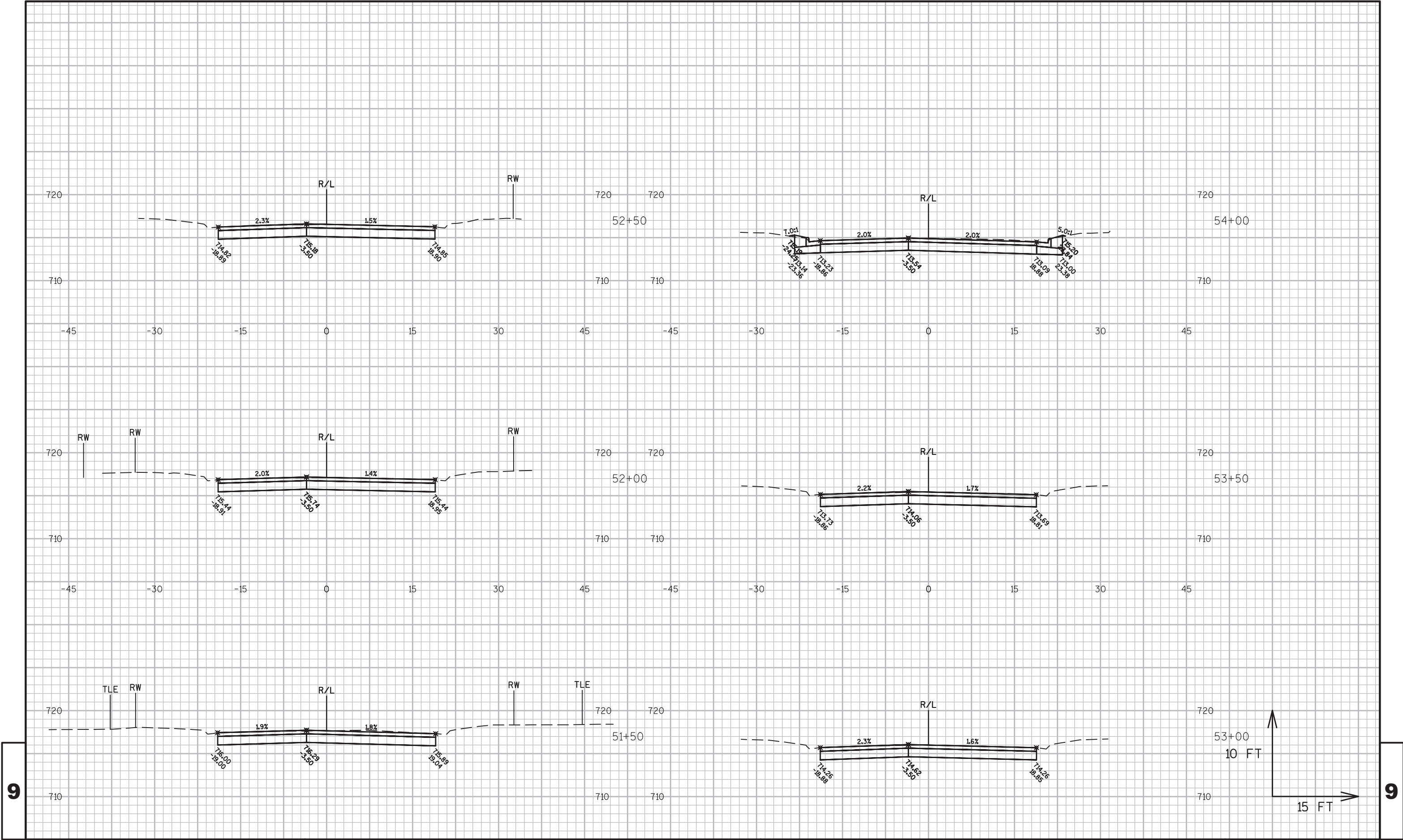
PLOT SCALE : 1 IN:15 FT

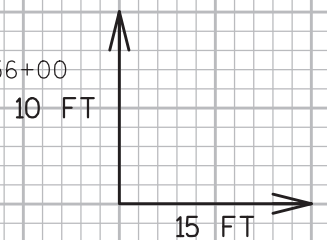
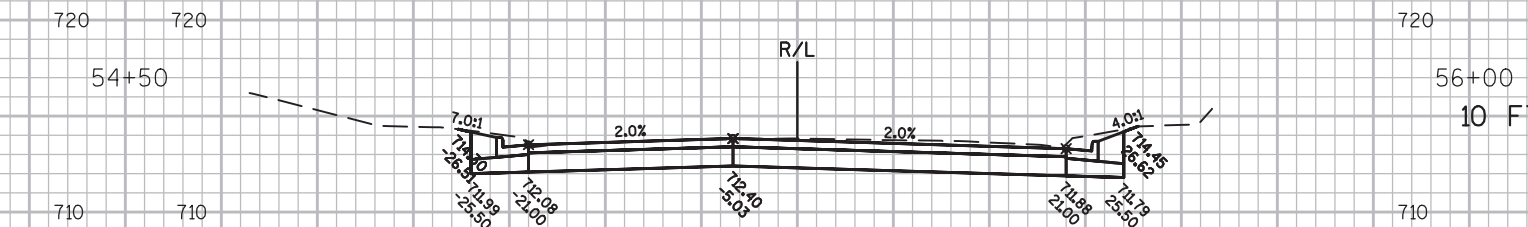
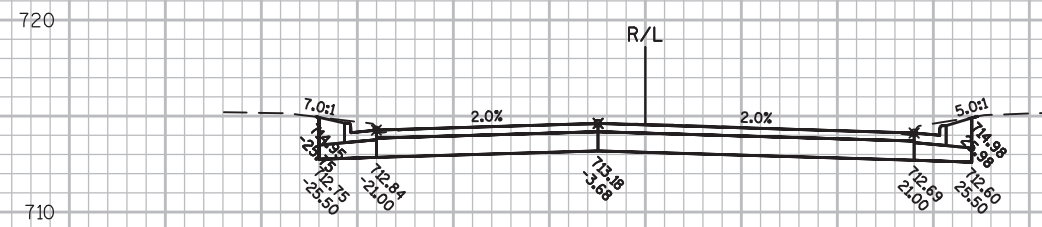
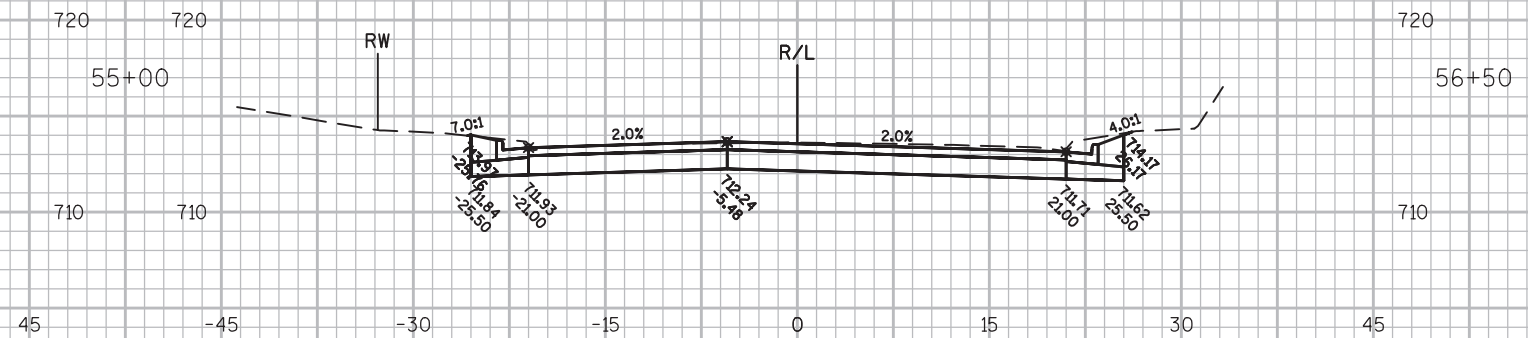
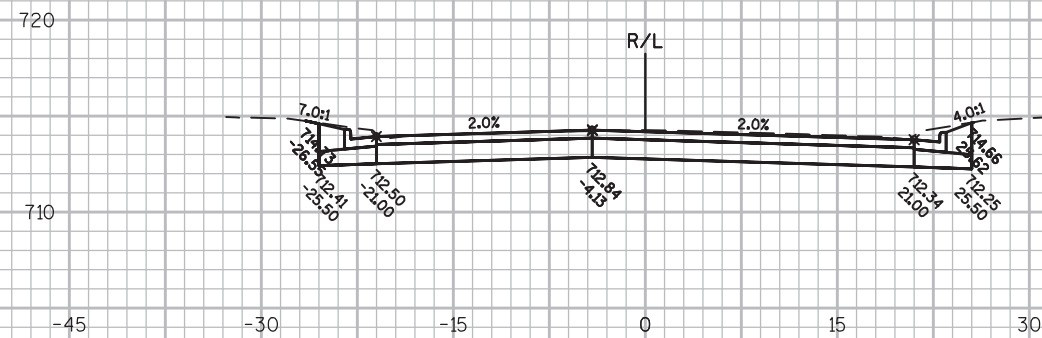
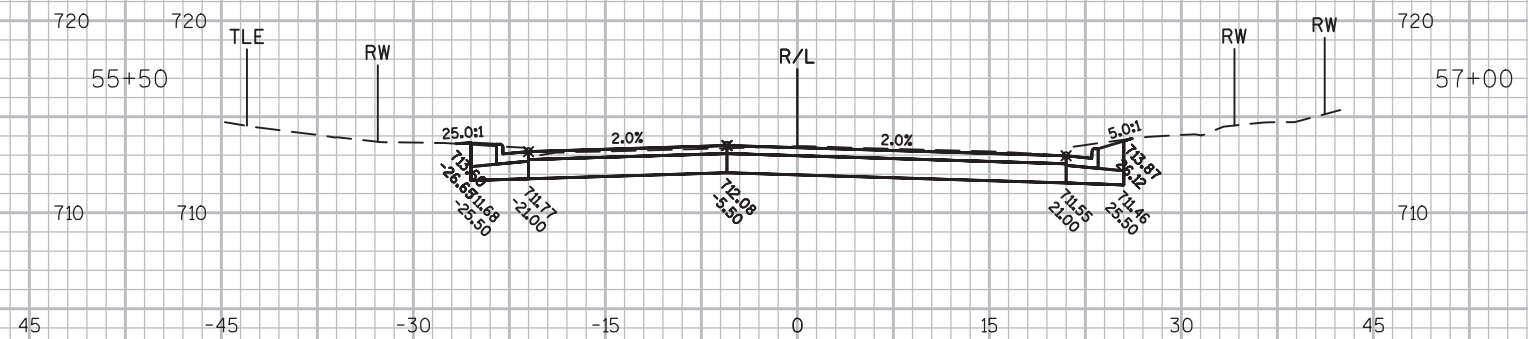
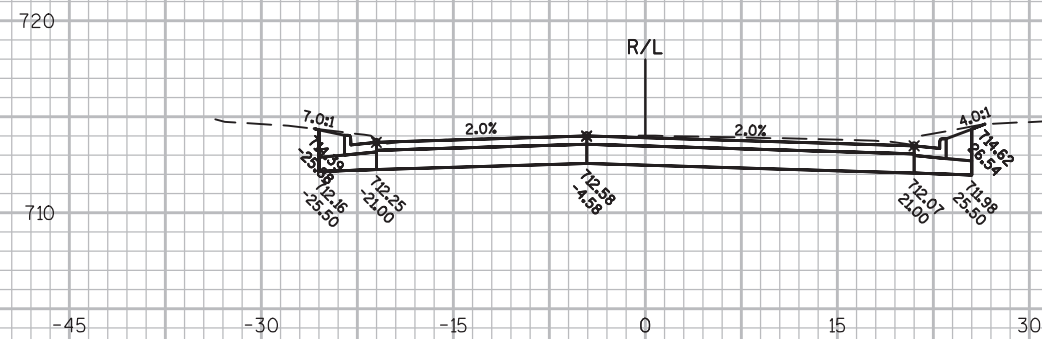
WISDOT/CADDs SHEET 49

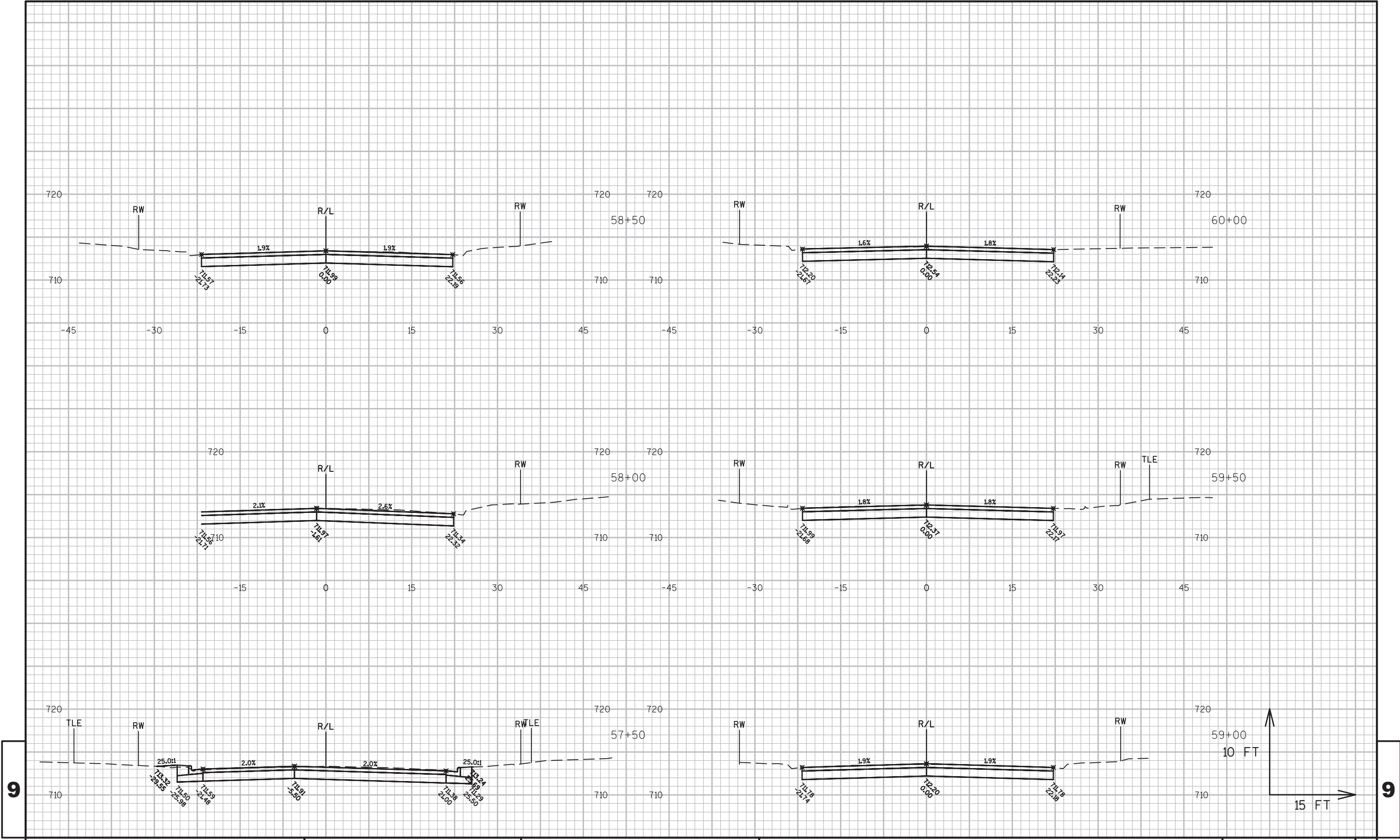
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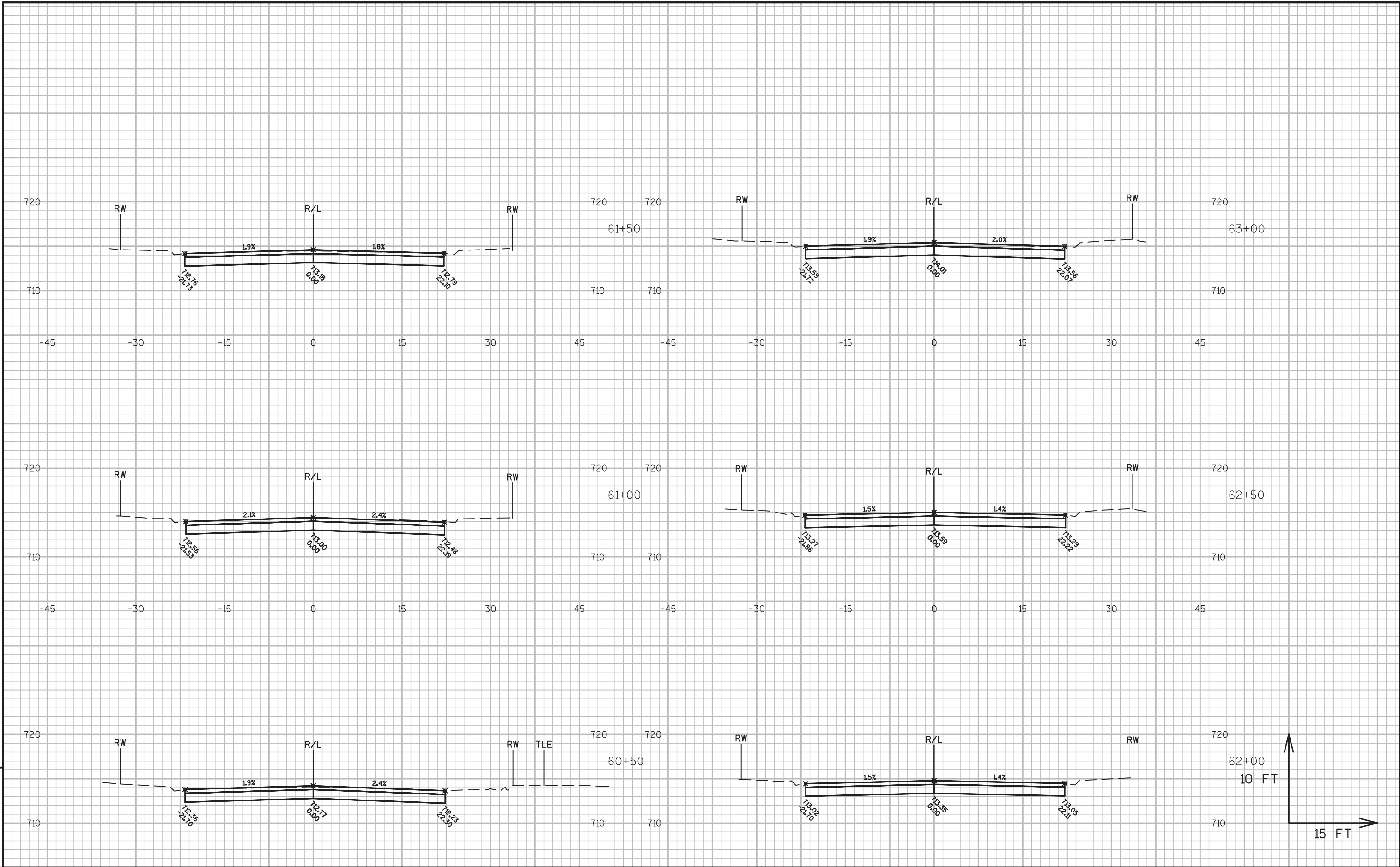




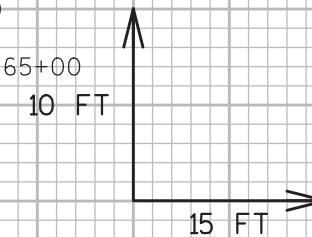
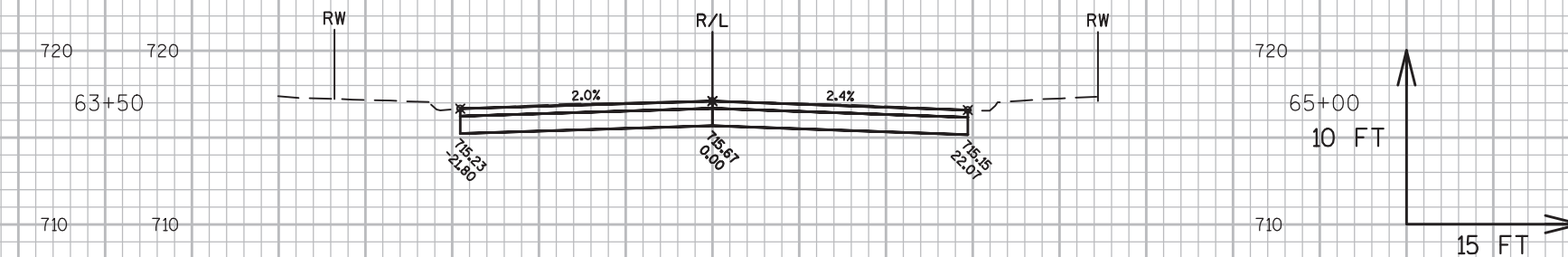
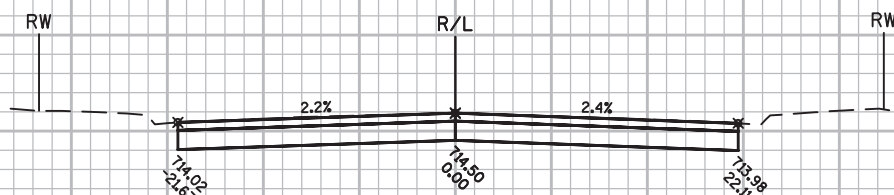
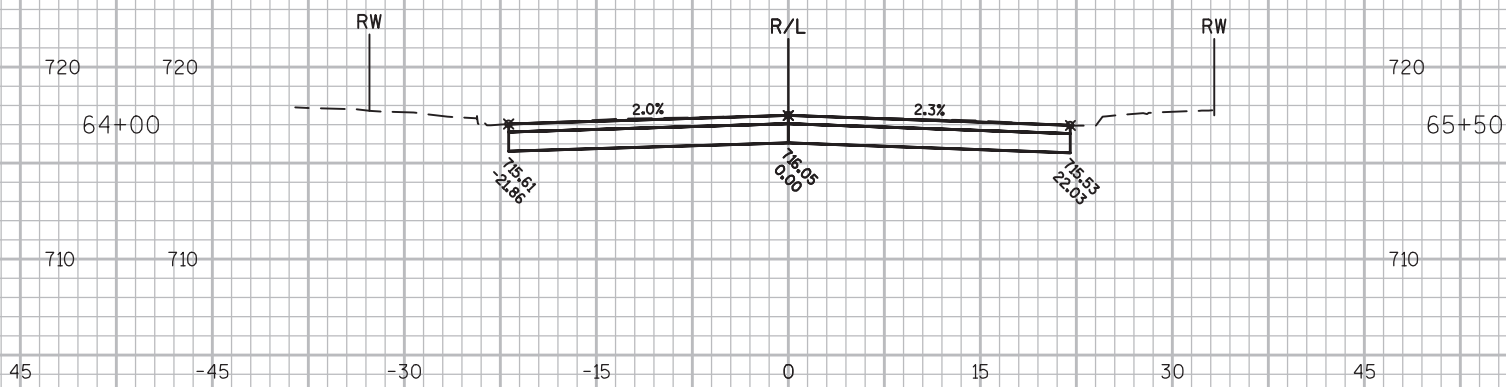
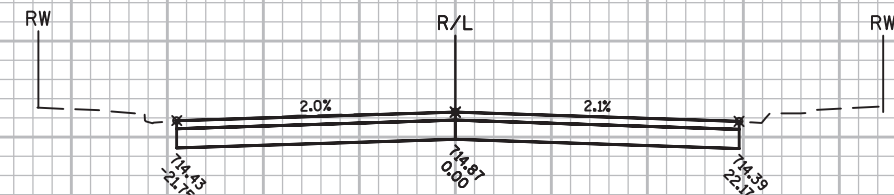
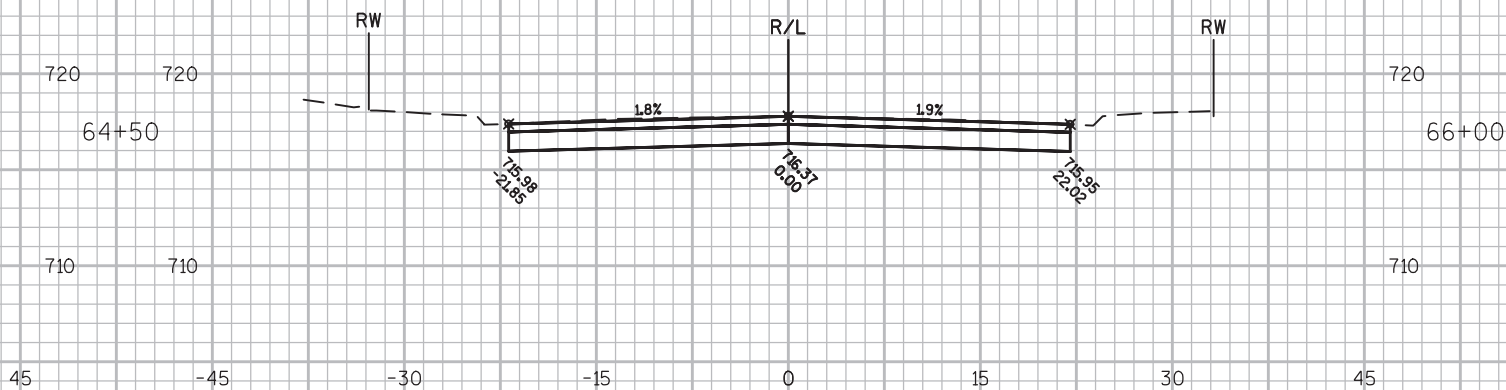
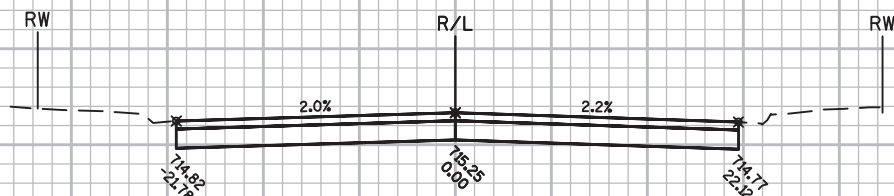
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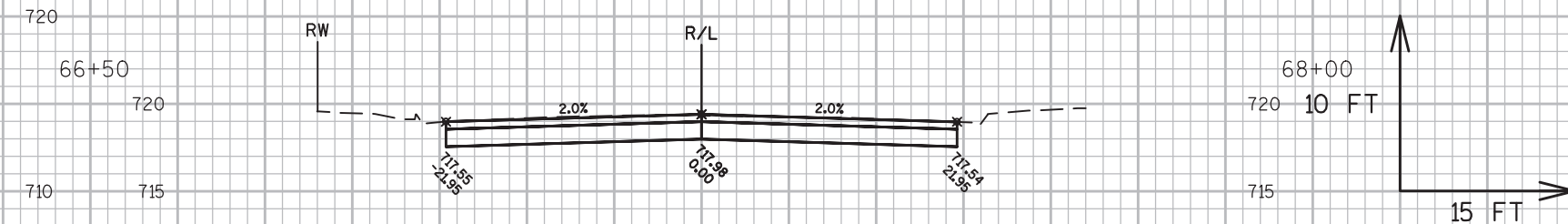
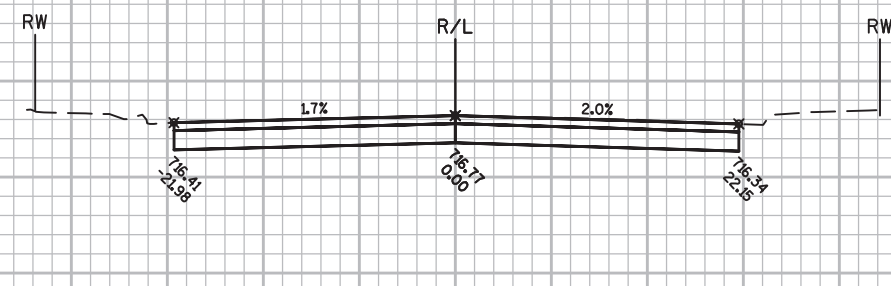
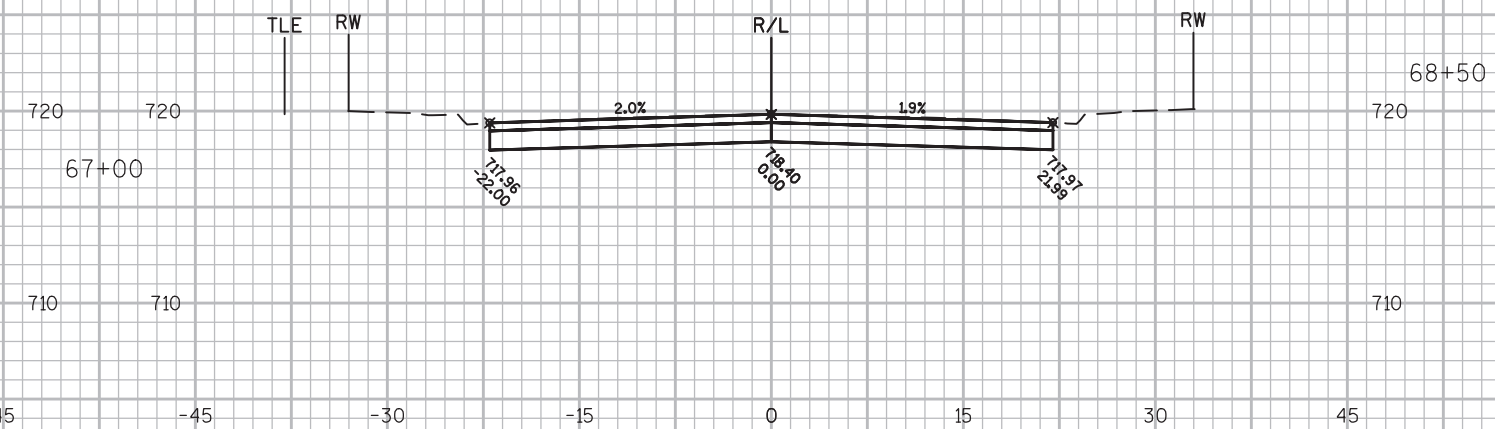
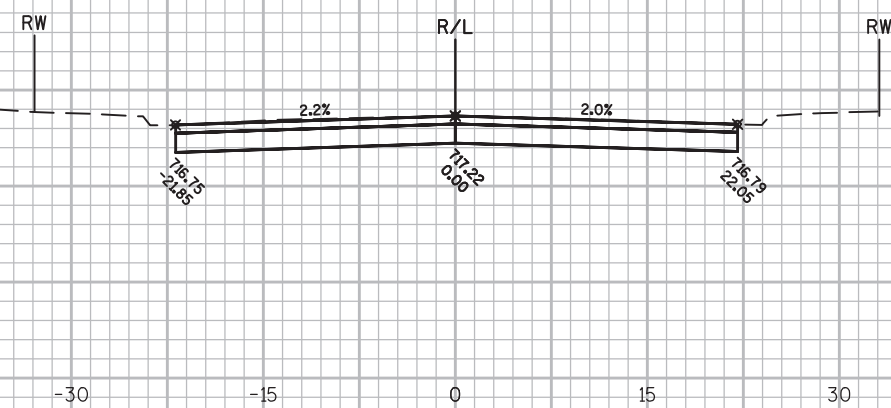
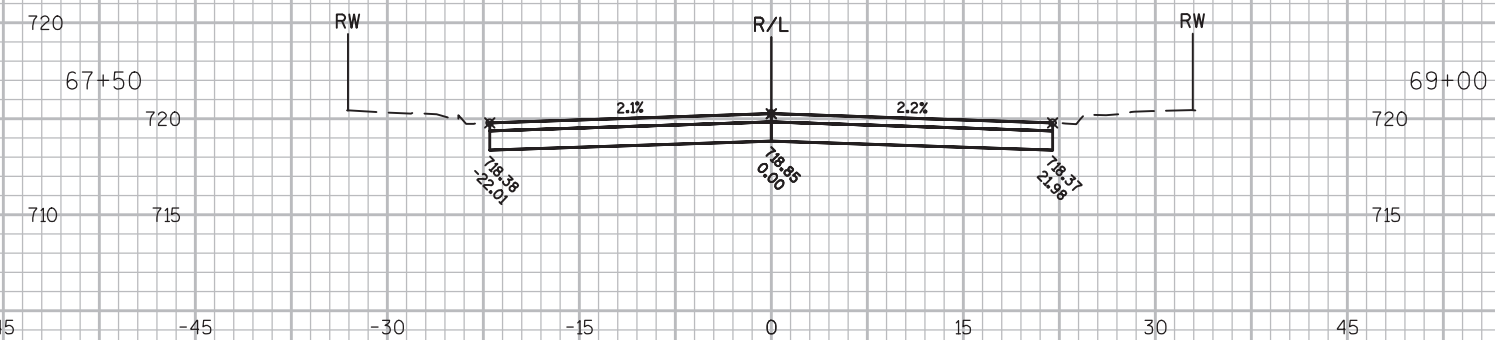
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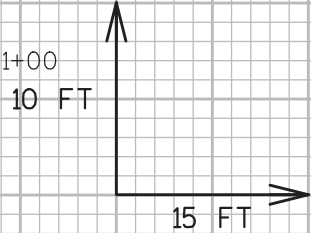
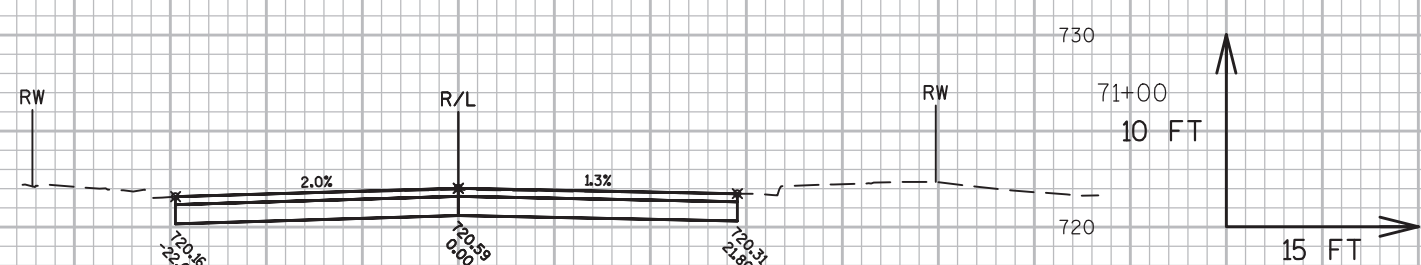
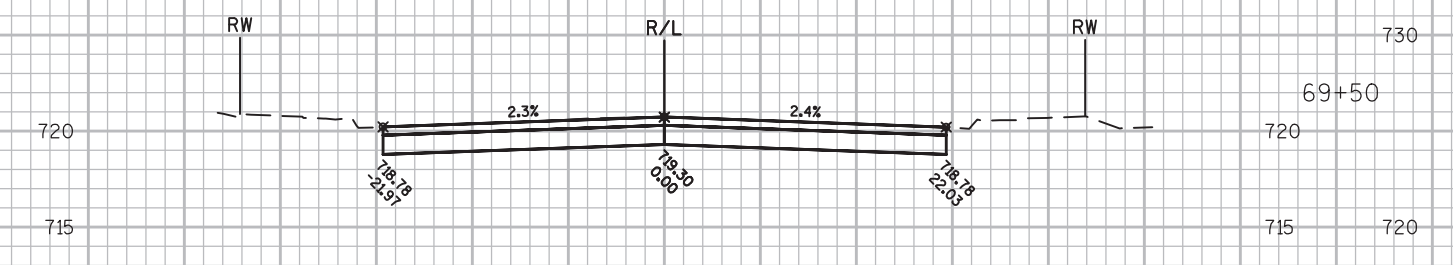
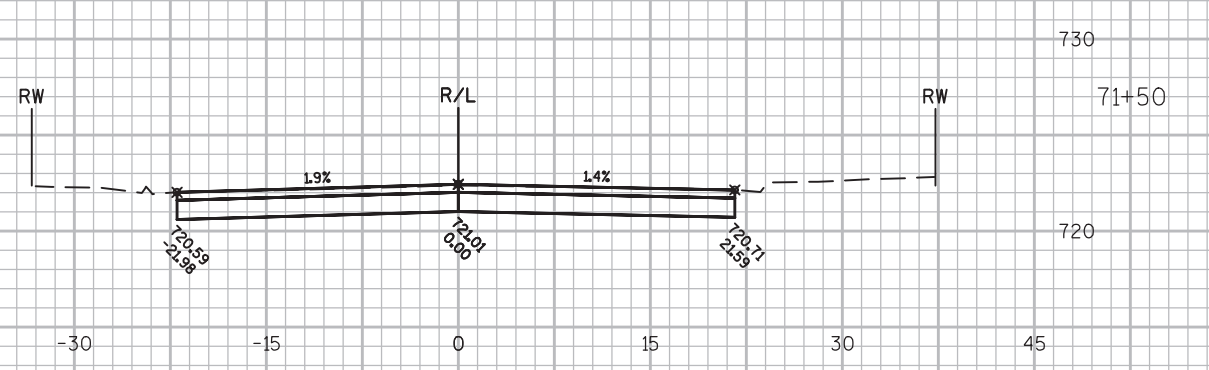
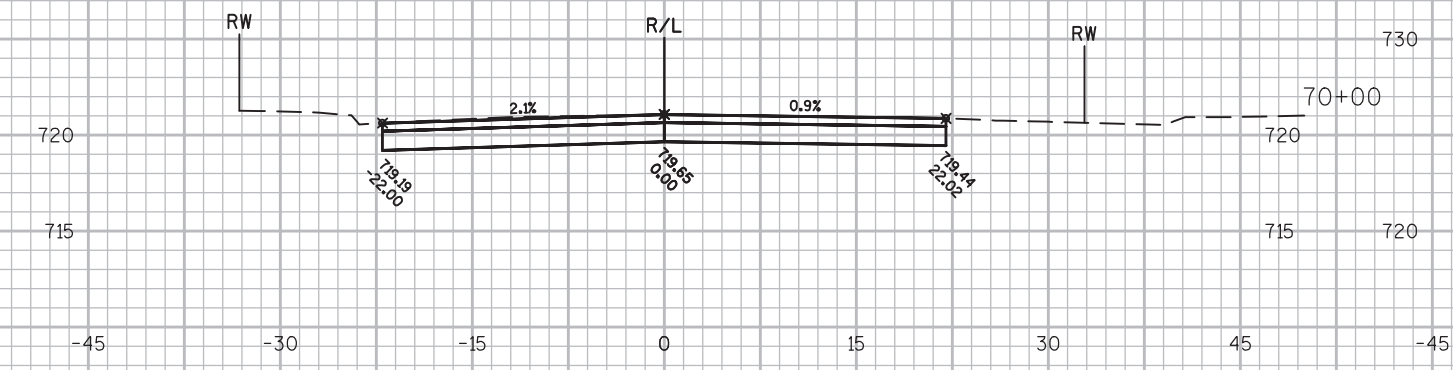
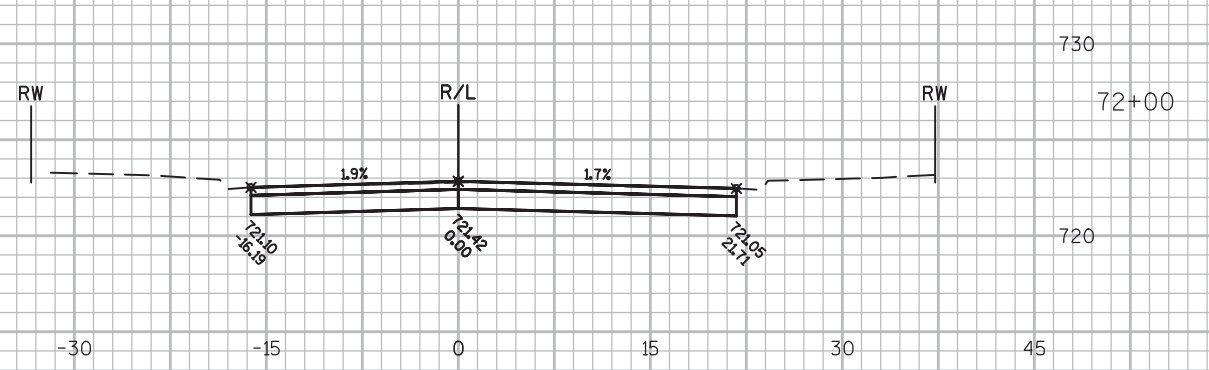
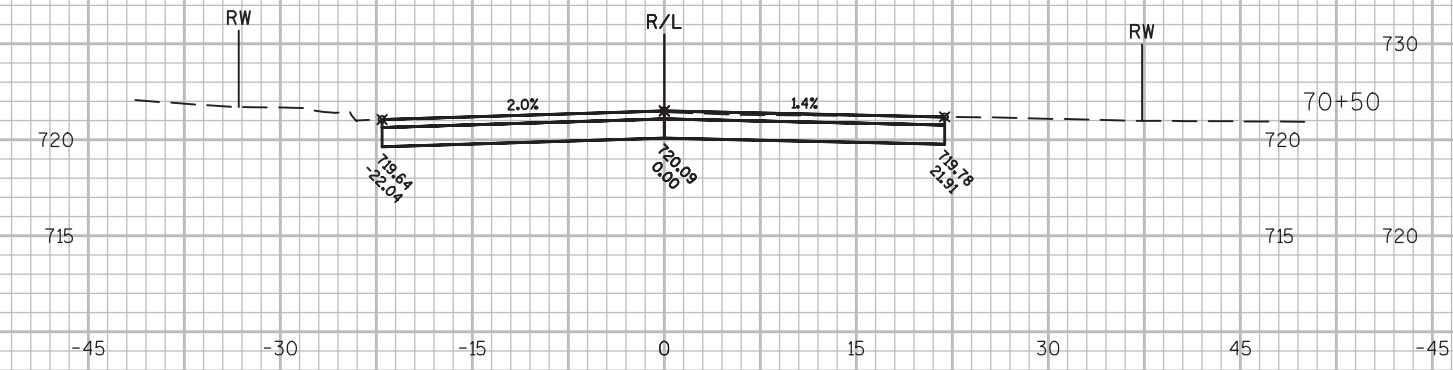


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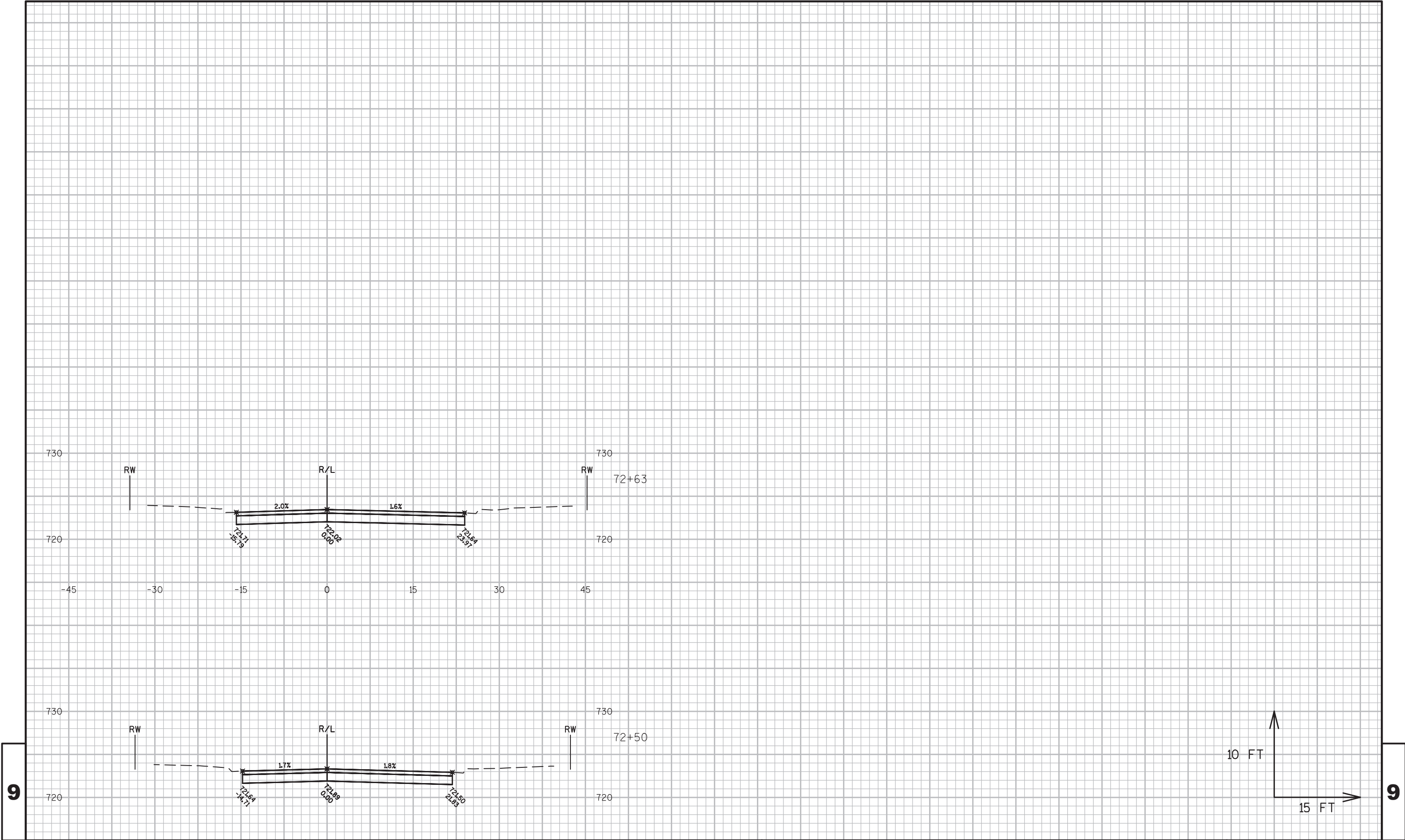




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PROJECT NO:5991-02-57

HWY:RIDERS CLUB ROAD

COUNTY:LA CROSSE

CROSS SECTIONS: RIDERS CLUB ROAD

SHEET 130

FILE NAME : \\SEHLX1\PROJECTS\K0\0\0NALA\133149\C3D\SHEETSPLAN\090201-XS-RIDERS.DWG  
LAYOUT NAME - 090201-XS-RIDERS - 090201 - (21)

PLOT DATE : 12/16/2016 9:06 AM

PLOT BY : TOREY LEONARD

PLOT NAME :

PLOT SCALE : 1 IN:15 FT

WISDOT/CADDs SHEET 49

## Notes



## ***Wisconsin Department of Transportation***

Dedicated people creating transportation solutions through innovation and exceptional service.

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