

GRE PROJECT ID: 1130-63-72 WITH: COUNTY: OUTAGAMIE/BROWN

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
PLAN OF PROPOSED IMPROVEMENT  
APPLETON - DE PERE  
STH 96 - CTH F  
IH 41  
OUTAGAMIE & BROWN COUNTIES

| STATE PROJECT | FEDERAL PROJECT |          |
|---------------|-----------------|----------|
|               | PROJECT         | CONTRACT |
| 1130-63-72    | WISC 2025322    | 1        |
|               |                 |          |
|               |                 |          |
|               |                 |          |

STATE PROJECT NUMBER  
1130-63-72

ORDER OF SHEETS

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

TOTAL SHEETS = 18

25

N

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS

PROPERTY LINE

LOT LINE

LIMITED HIGHWAY EASEMENT

EXISTING RIGHT OF WAY

PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

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

ROCK

LABEL

95.36

E

FO

G

SAN

SS

T

W

CAUTION

Ø

BEGIN PROJECT  
STA 537+63

END PROJECT  
STA 1649+80

EQUATION STA 1438+98.33 BK= STA 1329+75.00 AHD

SCALE 0 4 MI

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), OUTAGAMIE AND BROWN COUNTY, NAD83 ( 2011 ), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 ( 2012 ). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

Lakeside ENGINEERS

WISCONSIN PROFESSIONAL ENGINEER

JOSEPH MAAS E-45172 GREENFIELD WI

10/18/24 (Date)

(Signature)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor WISDOT

Designer LAKESIDE ENGINEERS

Project Manager BRYAN LEARST

Regional Examiner

Regional Supervisor ERIC GWIDT

APPROVED FOR THE DEPARTMENT

DATE: 10/18/24

(Signature)

E

FILE NAME : L:\DESIGN PROJECTS\C3D\1130-63-10\SHEETS\PLAN\010101-TI.DWG

PLOT DATE : 10/15/2024 2:01 PM

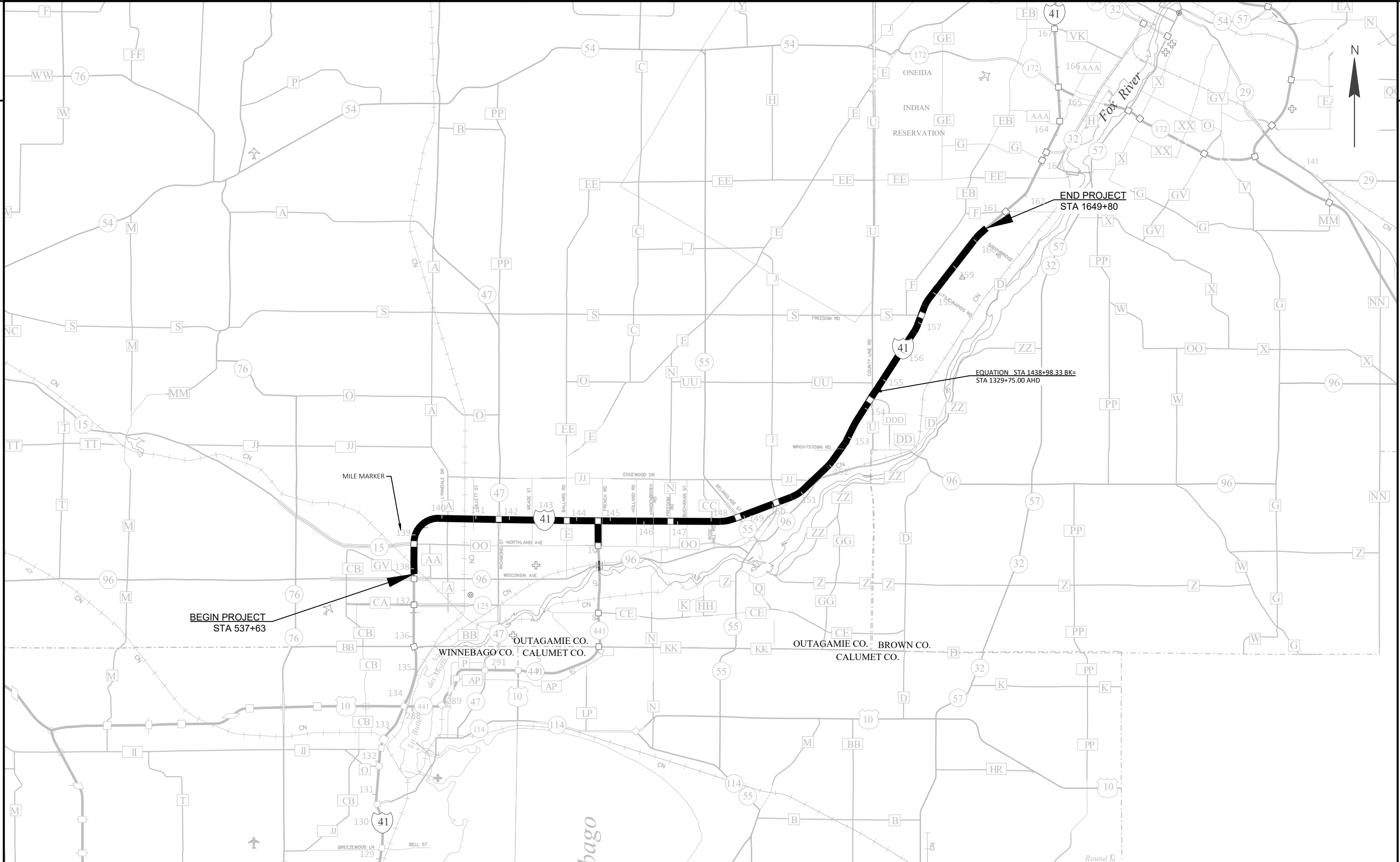
PLOT BY : JOE MAAS

PLOT NAME :

|   |                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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| 2 | <div>GENERAL NOTES</div> <div>TRAFFIC CONTROL DEVICE LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATIONS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.</div> <div>THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS.</div> | <div>STANDARD ABBREVIATIONS</div> <div><div><div>AEW</div><div>AHD</div><div>AGG</div><div>BAD</div><div>BK</div><div>BM</div><div>C&amp;G</div><div>C/L</div><div>CONC</div><div>CPRC</div><div>CY</div><div>Δ</div><div>DMS</div><div>EB</div><div>FBS</div><div>FE</div><div>HMA</div><div>IH</div><div>LT</div><div>MIN</div><div>M/L</div><div>NB</div><div>NO.</div><div>PAVT</div><div>PC</div><div>PCC</div><div>PCMS</div><div>PE</div><div>PI</div><div>PT</div><div>PTS</div><div>R/L</div><div>R/W</div><div>REQD</div><div>RT</div><div>SB</div><div>SDD</div><div>SE</div><div>SF</div><div>STA</div><div>STH</div><div>SY</div><div>TLE</div><div>WB</div><div>WZDSL-SF</div></div><div><div>APRON ENDWALL</div><div>AHEAD</div><div>AGGREGATE</div><div>BASE AGGREGATE DENSE</div><div>BACK</div><div>BENCHMARK</div><div>CURB AND GUTTER</div><div>CENTER OR CONSTRUCTION LINE</div><div>CONCRETE</div><div>CULVERT PIPE REINFORCED CONCRETE</div><div>CUBIC-YARD</div><div>DELTA</div><div>DYNAMIC MESSAGE SIGN</div><div>EASTBOUND</div><div>FLASHING BEACON SIGN</div><div>FIELD ENTRANCE</div><div>HOT MIX ASPHALT</div><div>INTERSTATE HIGHWAY</div><div>LEFT</div><div>MINIMUM</div><div>MATCHLINE</div><div>NORTHBOUND</div><div>NUMBER</div><div>PAVEMENT</div><div>POINT OF CURVE</div><div>POINT OF COMPOUND CURVE</div><div>PORTABLE CHANGEABLE MESSAGE SIGN</div><div>PRIVATE ENTRANCE</div><div>POINT OF INTERSECTION</div><div>POINT OF TANGENT</div><div>PORTABLE TRAFFIC SENSOR</div><div>REFERENCE LINE</div><div>RIGHT OF WAY</div><div>REQUIRED</div><div>RIGHT</div><div>SOUTHBOUND</div><div>STANDARD DETAIL DRAWING</div><div>SUPERELEVATION</div><div>SQUARE FOOT</div><div>STATION</div><div>STATE TRUNK HIGHWAY</div><div>SQUARE YARD</div><div>TEMPORARY LIMITED EASEMENT</div><div>WESTBOUND</div><div>WORK ZONE DIGITAL SPEED LIMIT - SPEED FEEDBACK TRAILER</div></div></div> <div><div>ORDER OF SECTION 2 DETAIL SHEETS</div><div>GENERAL NOTES</div><div>PROJECT OVERVIEW</div><div>TRAFFIC CONTROL DETAILS</div><div>TRAFFIC CONTROL OVERVIEWS</div></div> | <div>STATE AGENCIES</div> <div><div><div>OUTAGAMIE COUNTY DNR LIAISON</div><div>MATTHEW SCHAEVE</div><div>2984 SHAWANO AVENUE</div><div>GREEN BAY, WI 54313</div><div>PHONE: (920) 366-1544</div><div>MATTHEW.SCHAEVE@WISCONSIN.GOV</div></div><div><div>WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE &amp; CONSUMER PROTECTION</div><div>ZACH ZOPP</div><div>2811 AGRICULTURE DRIVE</div><div>P.O. BOX 8911</div><div>MADISON, WI 53708-8911</div><div>PHONE: (608) 224-4650</div><div>ZACH.ZOPP@WISCONSIN.GOV</div></div></div> <div><div>BROWN COUNTY DNR LIAISON</div><div>JAMES DOPERALSKI</div><div>2984 SHAWANO AVENUE</div><div>GREEN BAY, WI 54313</div><div>PHONE: (920) 412-0165</div><div>JAMES.DOPERALSKI@WISCONSIN.GOV</div></div> <div><div>WISCONSIN DEPARTMENT OF TRANSPORTATION - TRAFFIC SIGNALS</div><div>KIMBERLY BRADLEY</div><div>944 VAN DER PERREN WAY</div><div>GREEN BAY, WI 54304</div><div>PHONE: (920) 366-7521</div><div>KIMBERLY.BRADLEY@DOT.WI.GOV</div></div> <div><div>WISCONSIN DEPARTMENT OF TRANSPORTATION – COMMUNICATION LINE</div><div>JEFF MADSON</div><div>STE. 300</div><div>433 W ST. PAUL AVENUE</div><div>MILWAUKEE, WI 53203-3007</div><div>PHONE: (414) 225-3723</div><div>JEFFREY.MADSON@DOT.WI.GOV</div></div> <div><div>OTHER AGENCIES</div><div><div><div>U.S. ARMY CORPS OF ENGINEERS</div><div>JOEY SHOEMAKER</div><div>180 5<sup>TH</sup> ST. EST, STE. 700</div><div>ST. PAUL, MN 55101-1678</div><div>PHONE: (651) 290-5378</div><div>JOEY.R.SHOEMAKER@USACE.ARMY.MIL</div></div><div><div>U.S. FISH AND WILDLIFE SERVICE</div><div>DARIN SIMPKINS</div><div>2661 SCOTT TOWER DRIVE</div><div>NEW FRANKEN, WI 54229</div><div>PHONE: (920) 866-1739</div><div>DARIN_SIMPKINS@FWS.GOV</div></div><div><div>BROWN COUNTY HIGHWAY COMMISSIONER</div><div>CHRIS HARDY</div><div>2198 GLENDALE AVE.</div><div>GREEN BAY, WI 54303</div><div>PHONE: (920) 662-2170</div><div>CHRIS.HARDY@BROWNCOUNTYWI.GOV</div></div><div><div>OUTAGAMIE COUNTY - HIGHWAY DEPARTMENT</div><div>JOSEPH ZELLMER</div><div>1313 HOLLAND RD.</div><div>APPLETON, WI 54911</div><div>PHONE: (920) 832-5673</div><div>JOSEPH.ZELLMER@OUTAGAMIE.ORG</div></div><div><div>NE REGION SURVEY COORDINATOR</div><div>MICHAEL ANDRASCHKO</div><div>944 VANDERPERREN WAY</div><div>GREEN BAY, WI 54304</div><div>PHONE: (920) 492-4166</div><div>MICHAEL.ANDRASCHKO@DOT.WI.GOV</div></div><div><div>SEE "PUBLIC CONVENIENCE AND SAFETY" SPECIAL PROVISION FOR ADDITIONAL CONTACT INFORMATION</div></div></div></div> <div><div>DESIGN CONTACTS</div><div><div><div>LAKESIDE ENGINEERS</div><div>SUSAN PAULUS</div><div>PROJECT MANAGER</div><div>909 N MAYFAIR RD SUITE 100</div><div>WAUWATOSA, WI 53226</div><div>PHONE: (262) 789-8200</div><div>SUSAN.PAULUS@LAKESIDEENGINEERS.COM</div></div><div><div>WISCONSIN DEPARTMENT OF TRANSPORTATION</div><div>BRYAN LEARST, P.E.</div><div>944 VAN DER PERREN WAY</div><div>GREEN BAY, WI 54304</div><div>PHONE: (920) 366-5639</div><div>BRYAN.LEARST@DOT.WI.GOV</div></div></div></div> <div><div>UTILITY CONTACTS</div><div><div><div>DIGGERSHOTLINE</div><div>Dial 811 or (800)242-8511</div><div>www.DiggersHotline.com</div></div></div></div> | 2     |         |                 |               |       |   |
|   | PROJECT NO:                                                                                                                                                                                                                                                                         | 1130-63-72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                                                                                                                                                                                                                                                                                                                                                                                      | IH 41 | COUNTY: | OUTAGAMIE/BROWN | GENERAL NOTES | SHEET | E |

2

2



|             |            |
|-------------|------------|
| PROJECT NO: | 1130-63-72 |
|-------------|------------|

HWY: IH 41

COUNTY: OUTAGAMIE/BROWN

## PROJECT OVERVIEW

SHEET

**E**

FILE NAME : L:\DESIGN PROJECTS\C3D\1130-63-10\SHEETSPLAN\020201-PO.DWG  
LAYOUT NAME - 020201-po

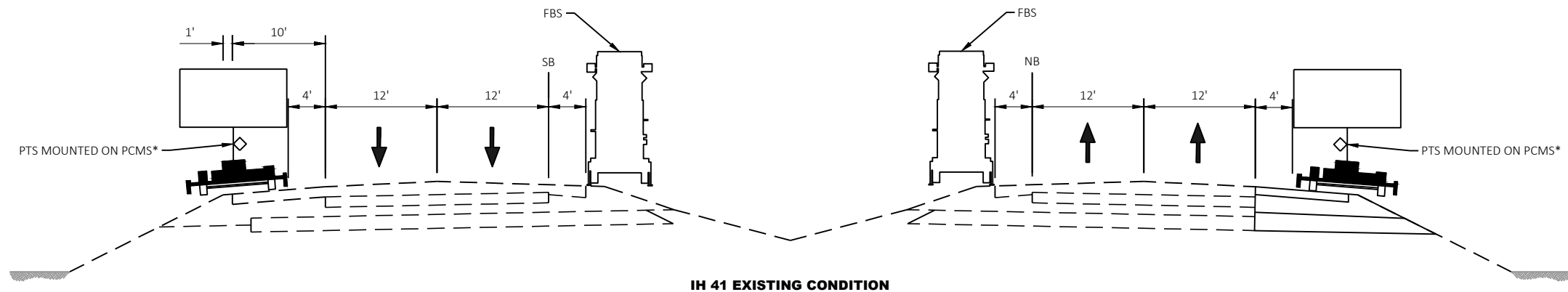
PLOT DATE : 10/15/2024 1:39 PM

PLOT BY : JOE MAAS

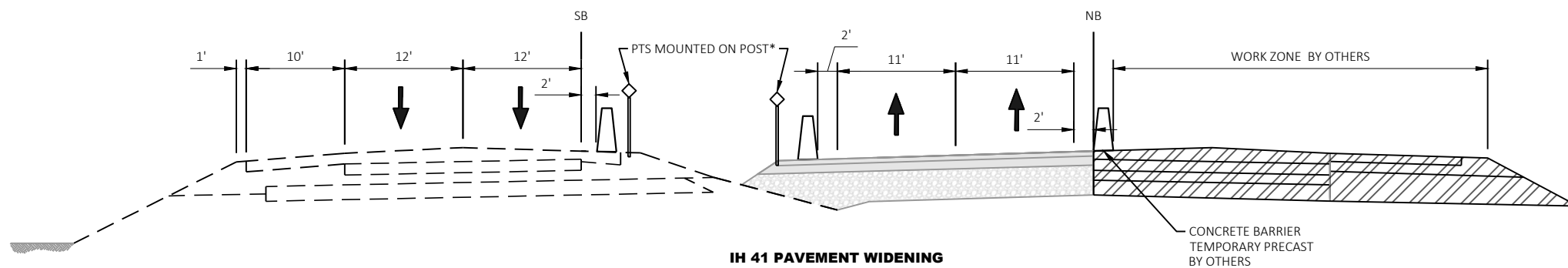
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PLOT SCALE : Custom

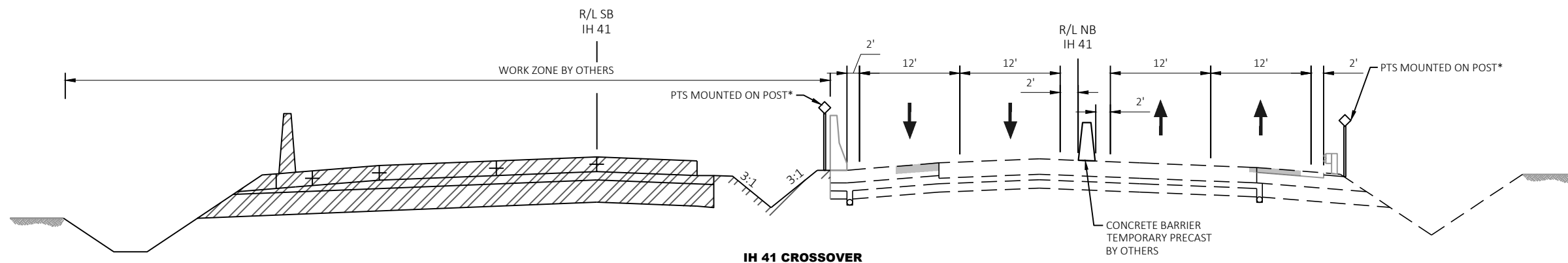
WISDOT/CADDS SHEET 42



IH 41 EXISTING CONDITION



IH 41 PAVEMENT WIDENING



IH 41 CROSSOVER

**EXAMPLE PORTABLE TRAFFIC SENSOR (PTS) MOUNTING DETAIL**

\*SEE SPECIAL PROVISIONS FOR PTS MOUNTING INFORMATION.  
SECTIONS ABOVE REPRESENT DIFFERENT POTENTIAL TRAFFIC CONFIGURATIONS BY OTHERS  
AND ARE NOT TO BE ASSUMED AS THE EXACT TRAFFIC LAYOUTS.

## LEGEND

- TRAFFIC CONTROL DRUM
- ➔ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- Ⓢ PORTABLE TRAFFIC SENSOR (PTS)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- FBS FLASHING BEACON SIGN WITH WO8-76

STOPPED OR  
SLOW TRAFFIC  
WHEN FLASHING

WO8-76  
96"X48"

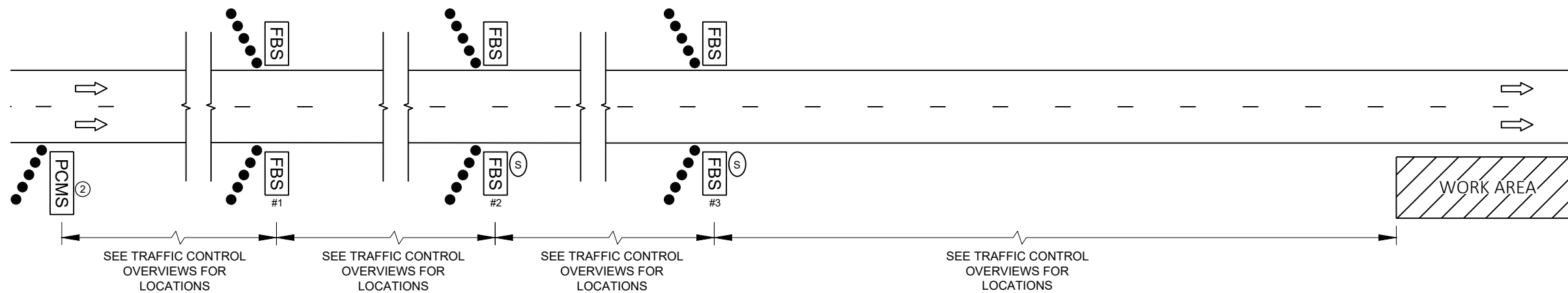
## GENERAL NOTES

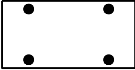
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL PCMS, FBS, AND PTS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

SEE SPECIAL PROVISIONS FOR PTS MOUNTING INFORMATION.

SPEED THRESHOLDS ARE TO BE USED AS A STARTING POINT FOR PCMS AND FBS. ADJUST AS NEEDED BASED ON SPEED DATA AND AS DIRECTED BY THE ENGINEER.

- ① PCMS SHALL FOLLOW ARROW BOARD STANDARDS WHEN DISPLAYING FLASHING FOUR CORNER CAUTION MODE OR FLASHING ARROW MERGE MODE.
- ② PLACE PCMS IN ADVANCE OF SYSTEM AS NEEDED TO PROVIDE SPECIFIC BACKUP LOCATION INFORMATION.



| ① PCMS MESSAGING            |                               |                                                                    |                             |                                                                                                                   |
|-----------------------------|-------------------------------|--------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------|
| SPEEDS 0 MPH TO 19 MPH      |                               | 70 MPH POSTED: 20 MPH TO 49 MPH<br>60 MPH POSTED: 20 MPH TO 39 MPH |                             | NO SPEED REDUCTION                                                                                                |
| FRAME 1                     | FRAME 2                       | FRAME 1                                                            | FRAME 2                     | <br>( FLASHING CAUTION MODE) |
| STOPPED<br>TRAFFIC<br>AHEAD | X MILES<br>PREPARE<br>TO STOP | SLOW<br>TRAFFIC<br>AHEAD                                           | X MILES<br>EXPECT<br>DELAYS |                                                                                                                   |

QUEUE WARNING SYSTEM DETAIL

**LEGEND**

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT (BY OTHERS)
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- (S) PORTABLE TRAFFIC SENSOR (PTS)
- ➡ FLASHING ARROW BOARD (BY OTHERS)
- FBS FLASHING BEACON SIGN WITH WO8-76

STOPPED OR  
SLOW TRAFFIC  
WHEN FLASHING

WO8-76  
96"X48"

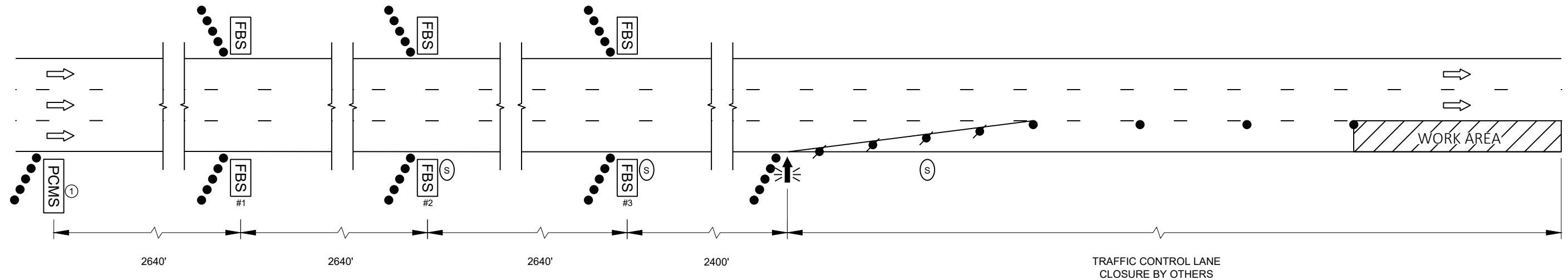
**GENERAL NOTES**

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

SEE SPECIAL PROVISIONS FOR PTS MOUNTING INFORMATION.

THE SPACING BETWEEN FBS AND TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE.

- ① PLACE PCMS IN ADVANCE OF SYSTEM AS NEEDED TO PROVIDE SPECIFIC BACKUP LOCATION INFORMATION.

**QUEUE WARNING SYSTEM DETAIL (3 TO 2 LANE REDUCTION)**

PROJECT NO: 1130-63-72

HWY: IH 41

COUNTY: OUTAGAMIE/BROWN

TRAFFIC CONTROL DETAILS

SHEET

E



LEGEND

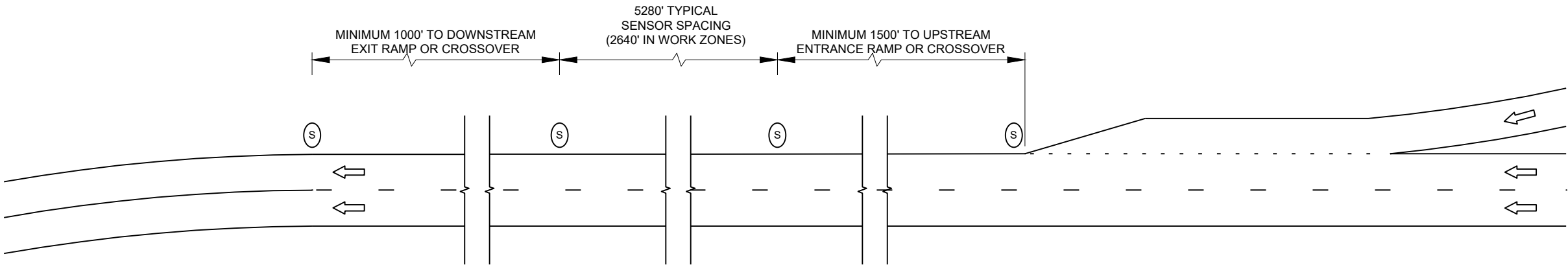
-  DIRECTION OF TRAFFIC
-  PORTABLE TRAFFIC SENSOR (PTS)

GENERAL NOTES

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

SEE SPECIAL PROVISIONS FOR PTS MOUNTING INFORMATION.

DETAIL SHOWS SENSORS ON THE RIGHT SIDE OF THE ROADWAY, BUT SENSORS CAN BE PLACED ON THE LEFT SIDE OF THE ROADWAY WHERE NECESSARY.



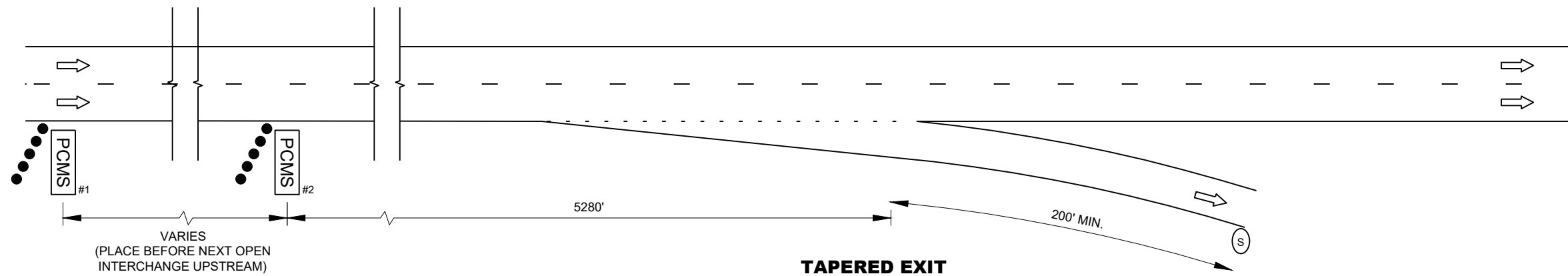
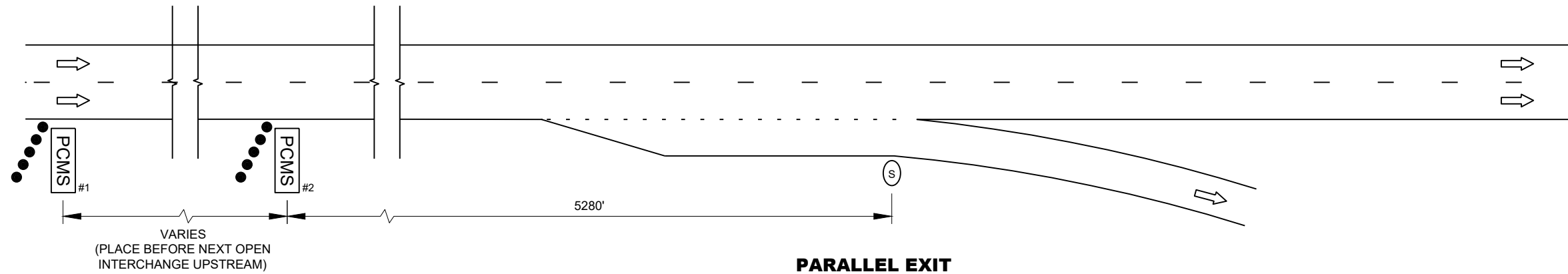
**MAINLINE PORTABLE TRAFFIC SENSOR (PTS) DETAIL**

LEGEND

- TRAFFIC CONTROL DRUM
- ➡ DIRECTION OF TRAFFIC
- Ⓢ PORTABLE TRAFFIC SENSOR (PTS)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL PCMS AND PTS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- DEPLOY PCMS AS DIRECTED BY THE ENGINEER. MAY NOT BE NEEDED FOR EVERY RAMP.
- SEE SPECIAL PROVISIONS FOR PTS MOUNTING INFORMATION.
- DIRECT PTS TOWARDS THE RAMP SO THAT MAINLINE TRAFFIC IS NOT DETECTED.
- SEE MAINLINE PORTABLE TRAFFIC SENSOR DETAIL FOR SENSORS PLACED SEPARATELY ON MAINLINE.
- SPEED THRESHOLDS ARE TO BE USED AS A STARTING POINT. ADJUST AS NEEDED BASED ON SPEED DATA AND AS DIRECTED BY THE ENGINEER.
- ① PCMS SHALL FOLLOW ARROW BOARD STANDARDS WHEN DISPLAYING FLASHING FOUR CORNER CAUTION MODE OR FLASHING ARROW MERGE MODE.



| ① PCMS MESSAGING             |                    |                               |                              |                                                     |
|------------------------------|--------------------|-------------------------------|------------------------------|-----------------------------------------------------|
| SPEEDS 0 MPH TO 19 MPH       |                    | SPEEDS 0 MPH TO 19 MPH        |                              | NO SPEED REDUCTION                                  |
| FRAME 1                      | FRAME 2            | FRAME 1                       | FRAME 2                      | <div><div></div></div><br>( FLASHING CAUTION MODE ) |
| STOPPED<br>TRAFFIC<br>HWY XX | USE<br>ALT<br>EXIT | STOPPED<br>TRAFFIC<br>AT RAMP | HWY XX<br>PREPARE<br>TO STOP |                                                     |
| PCMS #1                      |                    | PCMS #2                       |                              |                                                     |

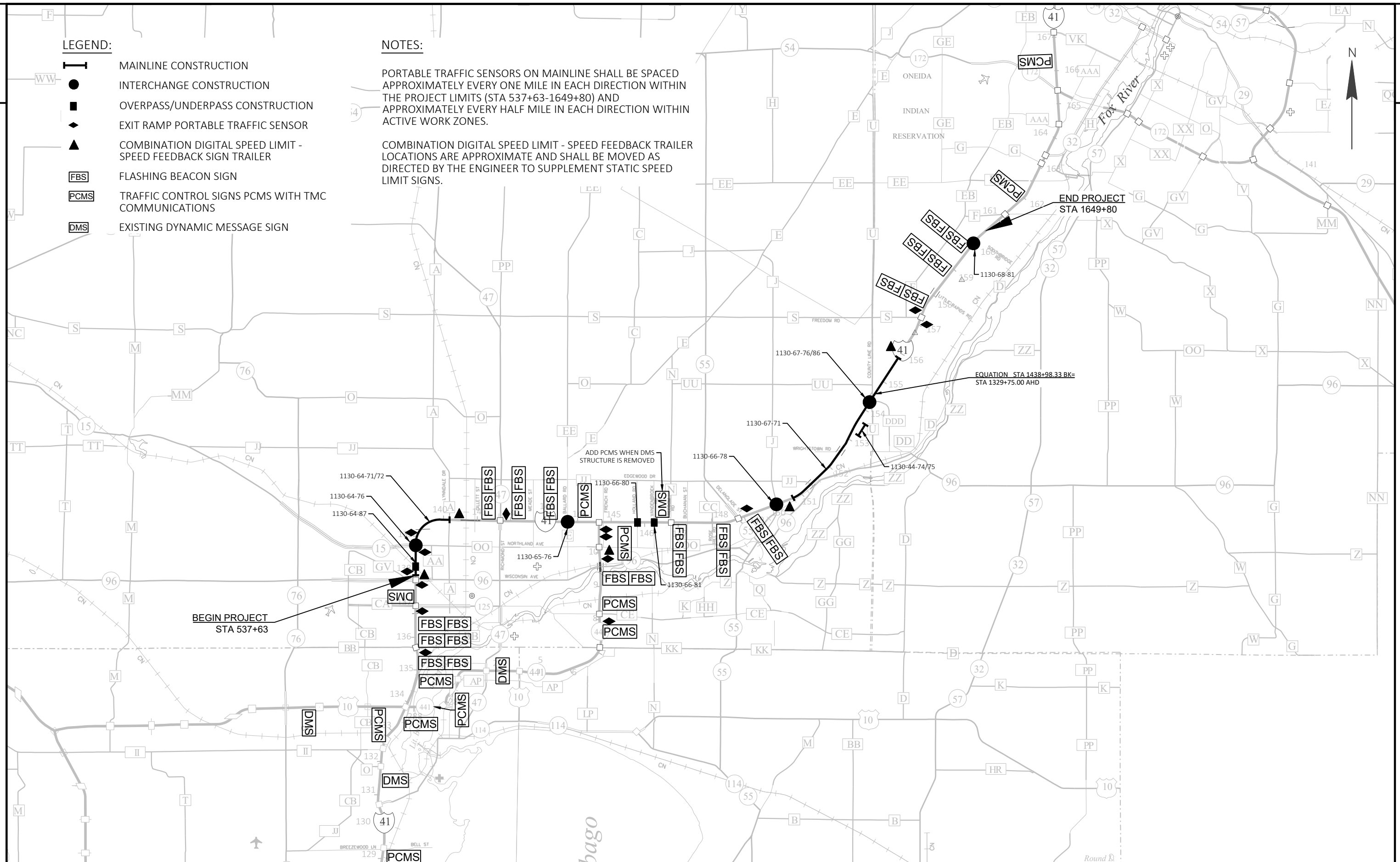
EXIT RAMP PORTABLE TRAFFIC SENSOR (PTS) DETAIL



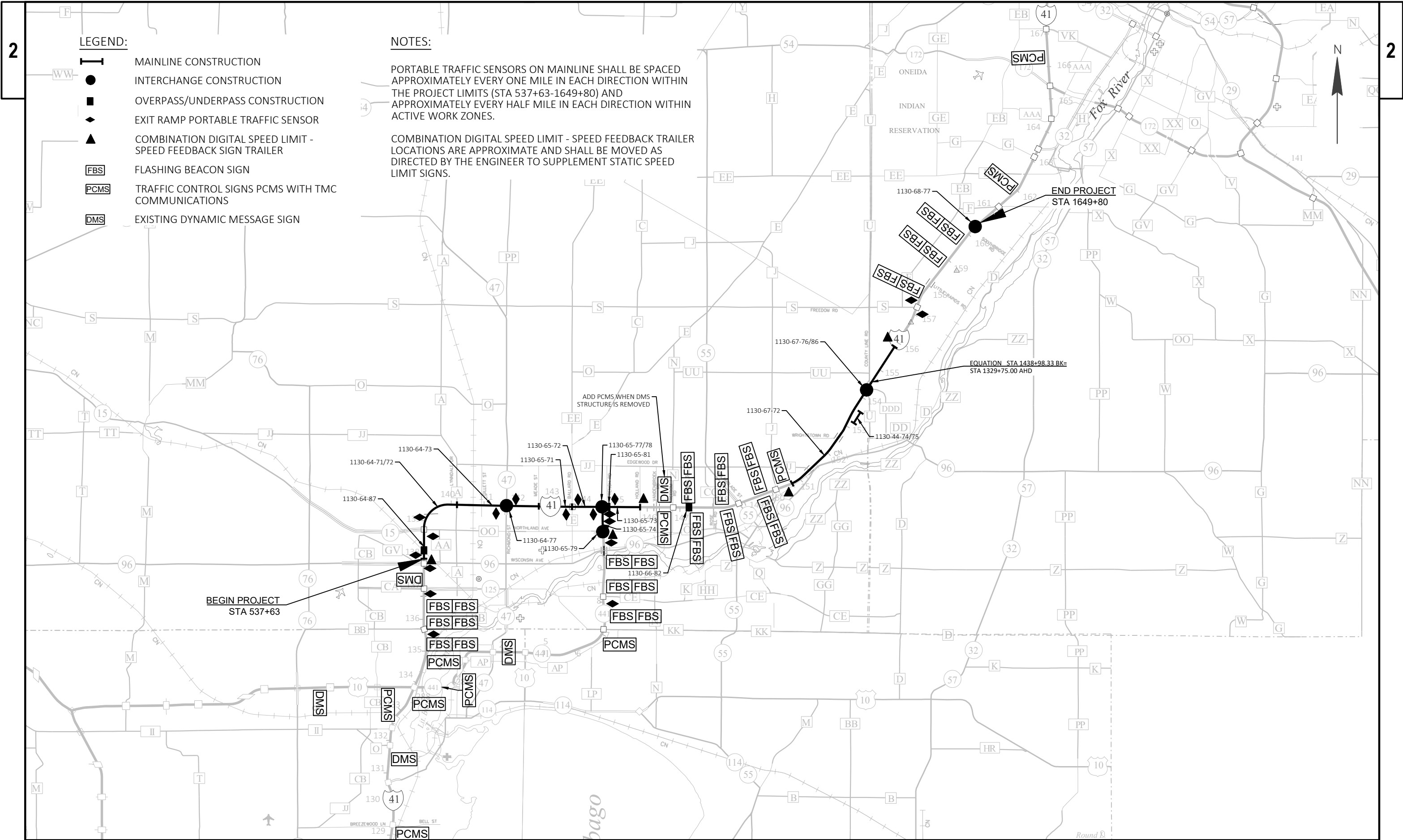
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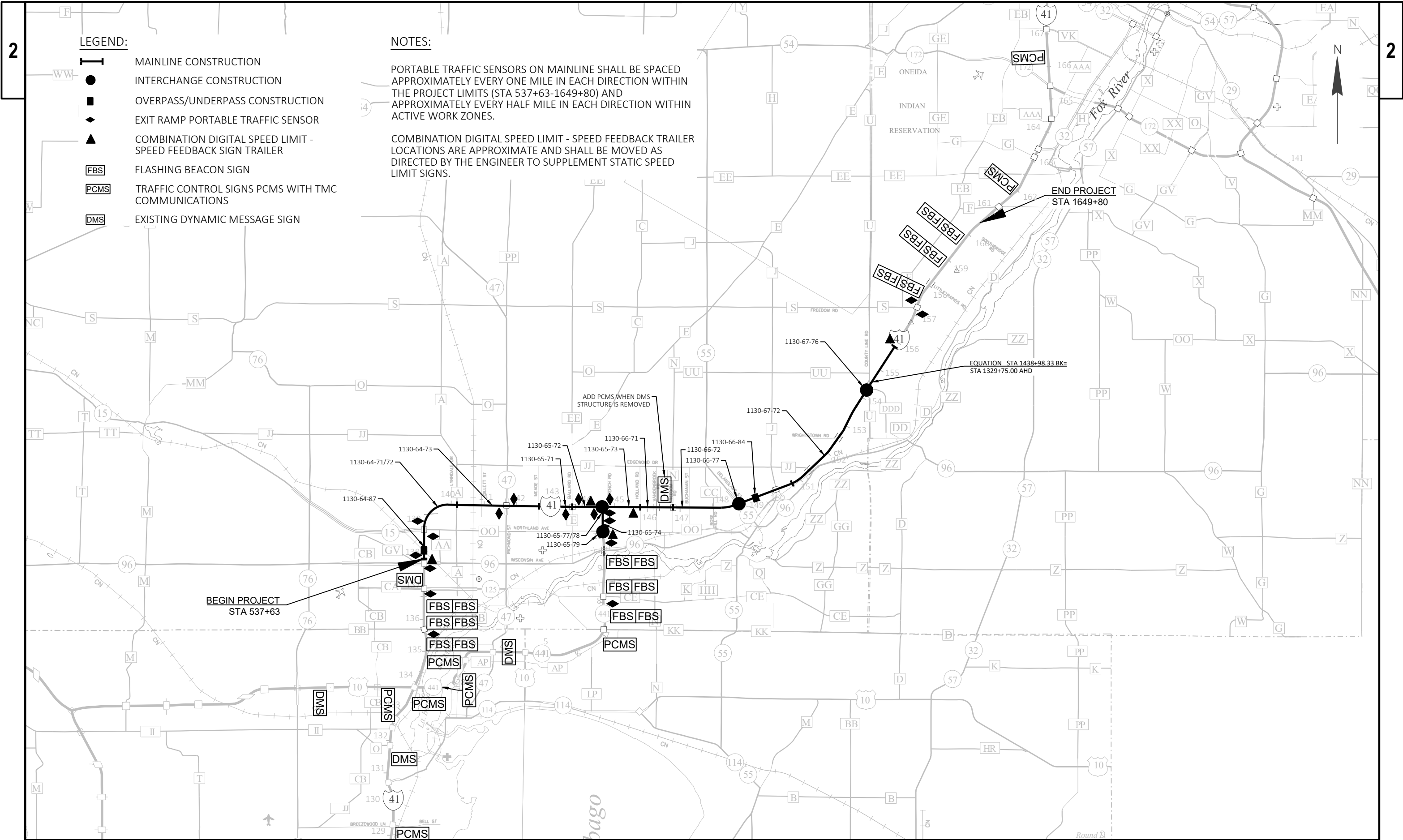
- PORTABLE TRAFFIC SENSORS ON MAINLINE SHALL BE SPACED APPROXIMATELY EVERY ONE MILE IN EACH DIRECTION WITHIN THE PROJECT LIMITS (STA 537+63-1649+80) AND APPROXIMATELY EVERY HALF MILE IN EACH DIRECTION WITHIN ACTIVE WORK ZONES.

COMBINATION DIGITAL SPEED LIMIT - SPEED FEEDBACK TRAILER  
LOCATIONS ARE APPROXIMATE AND SHALL BE MOVED AS  
DIRECTED BY THE ENGINEER TO SUPPLEMENT STATIC SPEED  
LIMIT SIGNS.



# I





LEGEND:

- MAINLINE CONSTRUCTION
- INTERCHANGE CONSTRUCTION
- OVERPASS/UNDERPASS CONSTRUCTION
- EXIT RAMP PORTABLE TRAFFIC SENSOR
- COMBINATION DIGITAL SPEED LIMIT - SPEED FEEDBACK SIGN TRAILER
- FLASHING BEACON SIGN
- TRAFFIC CONTROL SIGNS PCMS WITH TMC COMMUNICATIONS
- EXISTING DYNAMIC MESSAGE SIGN

NOTES:

PORTABLE TRAFFIC SENSORS ON MAINLINE SHALL BE SPACED APPROXIMATELY EVERY ONE MILE IN EACH DIRECTION WITHIN THE PROJECT LIMITS (STA 537+63-1649+80) AND APPROXIMATELY EVERY HALF MILE IN EACH DIRECTION WITHIN ACTIVE WORK ZONES.

COMBINATION DIGITAL SPEED LIMIT - SPEED FEEDBACK TRAILER LOCATIONS ARE APPROXIMATE AND SHALL BE MOVED AS DIRECTED BY THE ENGINEER TO SUPPLEMENT STATIC SPEED LIMIT SIGNS.

PROJECT NO: 1130-63-72

HWY: IH 41

COUNTY: OUTAGAMIE/BROWN

TRAFFIC CONTROL OVERVIEW - 2027 CONSTRUCTION

SHEET

E

FILE NAME : L:\DESIGN PROJECTS\C3D\1130-63-10\SHEETS\PLAN\025102\_TC\_2027.DWG  
LAYOUT NAME - 025100\_tc\_2027

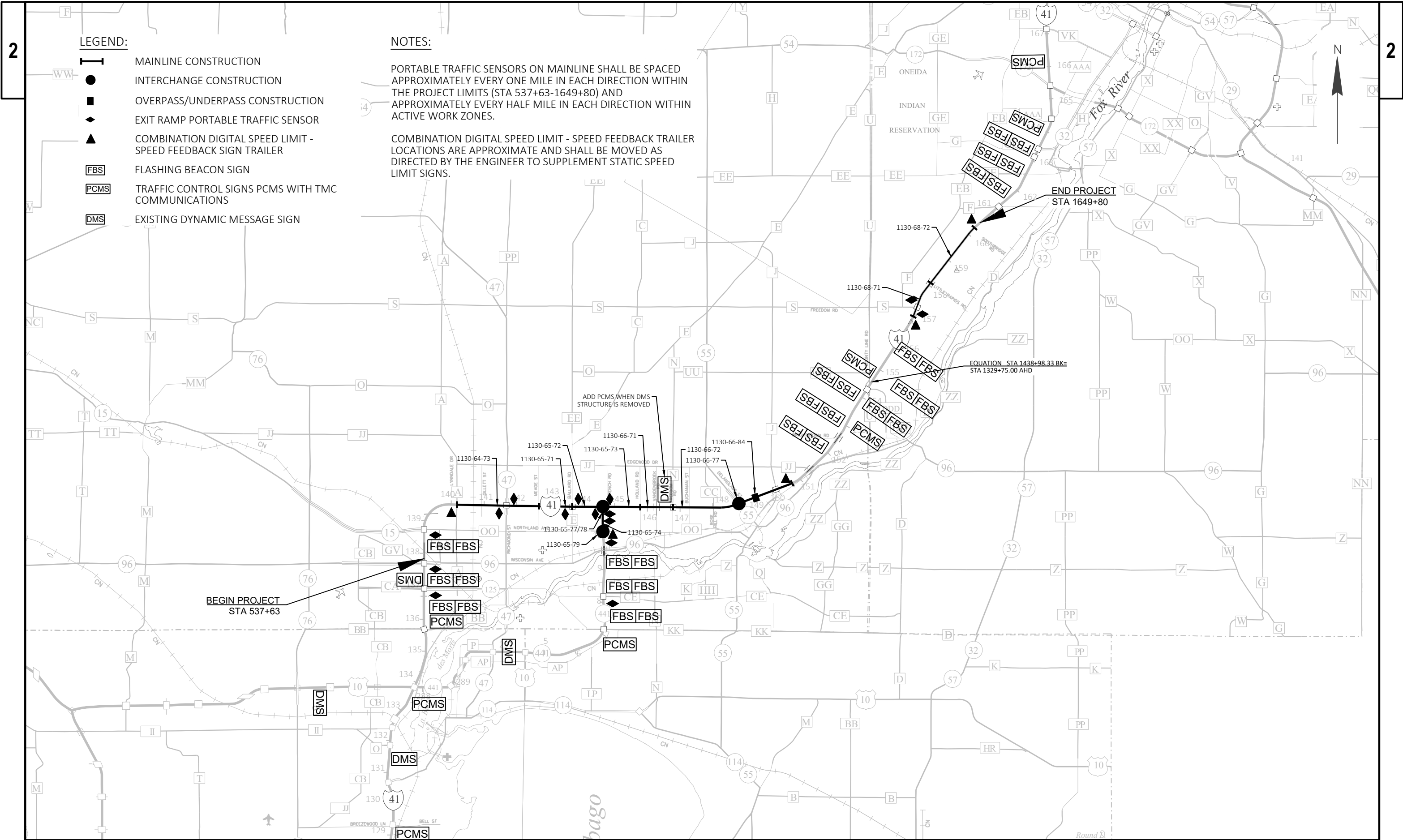
PLOT DATE : 10/23/2024 3:59 PM

PLOT BY : JOE MAAS

PLOT NAME :

PLOT SCALE : Custom

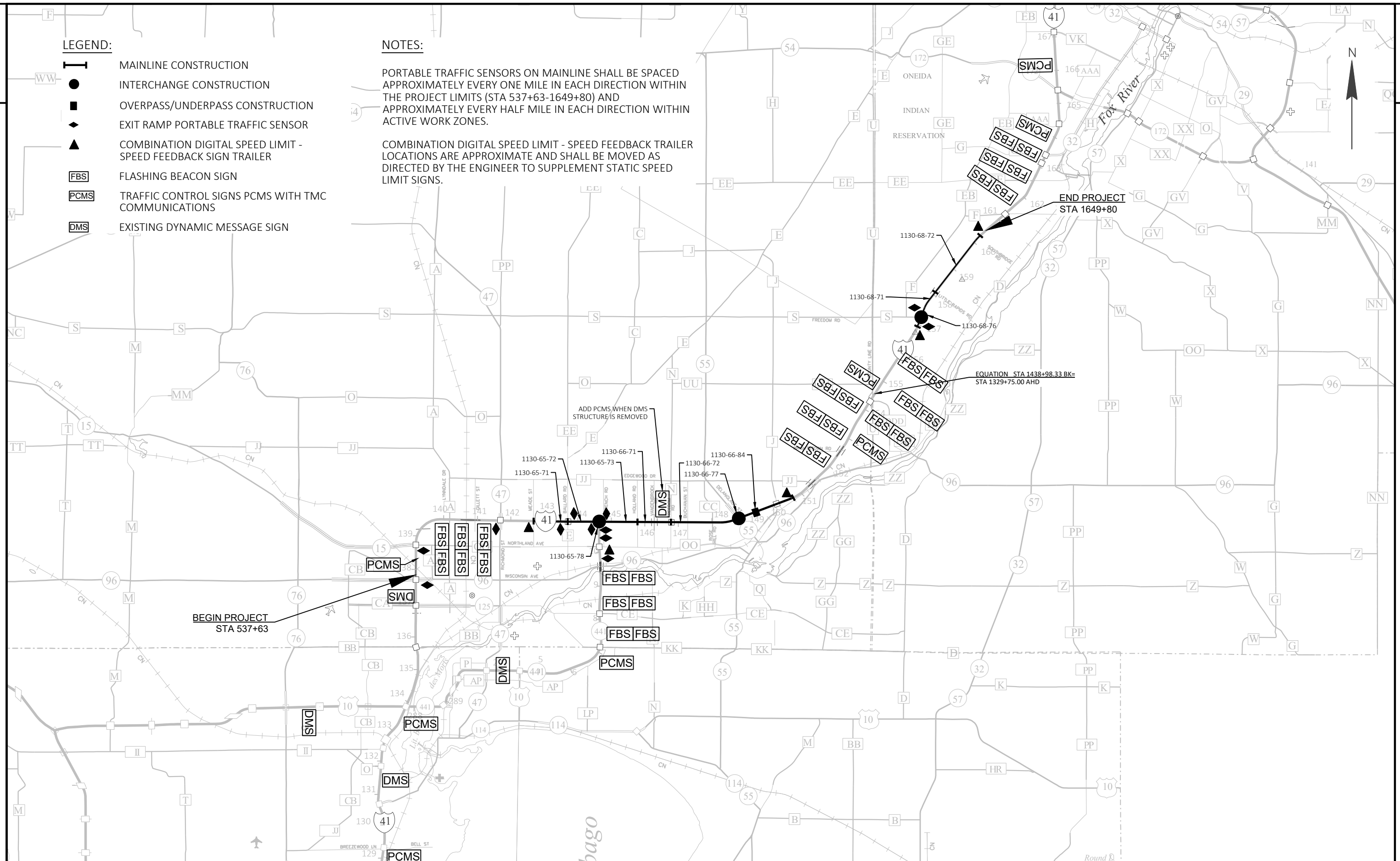
WISDOT/CADDs SHEET 42



NOTES:

- PORTABLE TRAFFIC SENSORS ON MAINLINE SHALL BE SPACED APPROXIMATELY EVERY ONE MILE IN EACH DIRECTION WITHIN THE PROJECT LIMITS (STA 537+63-1649+80) AND APPROXIMATELY EVERY HALF MILE IN EACH DIRECTION WITHIN ACTIVE WORK ZONES.

COMBINATION DIGITAL SPEED LIMIT - SPEED FEEDBACK TRAILER  
LOCATIONS ARE APPROXIMATE AND SHALL BE MOVED AS  
DIRECTED BY THE ENGINEER TO SUPPLEMENT STATIC SPEED  
LIMIT SIGNS.



E |

WISDOT/CADDS SHEET 42

Estimate Of Quantities

1130-63-72

| Line | Item     | Item Description                                                                    | Unit | Total       | Qty         |
|------|----------|-------------------------------------------------------------------------------------|------|-------------|-------------|
| 0002 | 619.1000 | Mobilization                                                                        | EACH | 1.000       | 1.000       |
| 0004 | 643.0300 | Traffic Control Drums                                                               | DAY  | 371,370.000 | 371,370.000 |
| 0006 | 643.1051 | Traffic Control Signs PCMS with TMC Communications                                  | DAY  | 18,749.000  | 18,749.000  |
| 0008 | 643.5000 | Traffic Control                                                                     | EACH | 1.000       | 1.000       |
| 0010 | ASP.1T0A | On-the-Job Training Apprentice at \$5.00/HR                                         | HRS  | 1,200.000   | 1,200.000   |
| 0012 | ASP.1T0G | On-the-Job Training Graduate at \$5.00/HR                                           | HRS  | 600.000     | 600.000     |
| 0014 | SPV.0045 | Special 01. Combination Work Zone Digital Speed Limit - Speed Feedback Sign Trailer | DAY  | 8,415.000   | 8,415.000   |
| 0016 | SPV.0045 | Special 02. Flashing Beacon Sign                                                    | DAY  | 47,110.000  | 47,110.000  |
| 0018 | SPV.0045 | Special 03. Portable Traffic Sensor                                                 | DAY  | 181,428.000 | 181,428.000 |
| 0020 | SPV.0060 | Special 01. Moving FBS                                                              | EACH | 568.000     | 568.000     |
| 0022 | SPV.0060 | Special 02. Moving PTS                                                              | EACH | 1,214.000   | 1,214.000   |
| 0024 | SPV.0060 | Special 03. Mobilizations Emergency Traffic Control                                 | EACH | 89.000      | 89.000      |



ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

|               |      | 643.0300          |                   | 643.1051  |                       | SPV.0045.01                |                       | SPV.0045.02           |                         | SPV.0045.03  |            | SPV.0060.01 |      | SPV.0060.02 |      | SPV.0060.03       |    |
|---------------|------|-------------------|-------------------|-----------|-----------------------|----------------------------|-----------------------|-----------------------|-------------------------|--------------|------------|-------------|------|-------------|------|-------------------|----|
|               |      | LONG-TERM STAGED  | SHORT-TERM        |           |                       | TRAFFIC CONTROL SIGNS PCMS |                       | COMBINATION WORK ZONE |                         |              |            |             |      |             |      | EMERGENCY TRAFFIC |    |
|               |      | CONSTRUCTION      | STAGING           | RAMP PCMS | TRAFFIC CONTROL DRUMS | WITH TMC COMMUNICATIONS    | FEEDBACK SIGN TRAILER | FLASHING BEACON SIGN  | PORTABLE TRAFFIC SENSOR | MOVING FBS   | MOVING PTS |             |      |             |      |                   |    |
| YEAR          | DAYS | DAYS <sup>1</sup> | DAYS <sup>2</sup> | NO.       | DAY                   | NO.                        | DAY                   | NO.                   | DAY                     | NO. MAINLINE | NO. RAMPS  | DAY         | EACH | EACH        | EACH |                   |    |
| 2025          | 275  |                   |                   | 210       | 57750                 | 11                         | 3025                  | 5                     | 1375                    | 26           | 7150       | 81          | 14   | 26125       | 52   | 190               | 14 |
| 2025          |      |                   | 42                | 75        | 3150                  | 5                          | 210                   |                       |                         | 10           | 420        | 5           |      | 210         | 60   | 30                | 2  |
| 2025          |      |                   |                   | 15        | 3900                  | 3                          | 780                   |                       |                         |              |            |             |      |             |      |                   | 1  |
| 2025 SUBTOTAL |      |                   |                   | 300       | 64800                 | 19                         | 4015                  | 5                     | 1375                    | 36           | 7570       | 86          | 14   | 26335       | 112  | 220               | 17 |
| 2026          | 365  |                   |                   | 225       | 82125                 | 10                         | 3650                  | 5                     | 1825                    | 30           | 10950      | 93          | 18   | 40515       | 60   | 222               | 16 |
| 2026          |      |                   | 42                | 75        | 3150                  | 5                          | 210                   |                       |                         | 10           | 420        | 5           |      | 210         | 60   | 30                | 2  |
| 2026          |      |                   |                   | 20        | 2100                  | 4                          | 420                   |                       |                         |              |            |             |      |             |      |                   | 1  |
| 2026 SUBTOTAL |      |                   |                   | 320       | 87375                 | 19                         | 4280                  | 5                     | 1825                    | 40           | 11370      | 98          | 18   | 40725       | 120  | 252               | 19 |
| 2027          | 365  |                   |                   | 155       | 56575                 | 8                          | 2920                  | 5                     | 1825                    | 18           | 6570       | 97          | 18   | 41975       | 36   | 230               | 15 |
| 2027          |      |                   | 42                | 75        | 3150                  | 5                          | 210                   |                       |                         | 10           | 420        | 5           |      | 210         | 60   | 30                | 2  |
| 2027          |      |                   |                   | 35        | 5600                  | 7                          | 1120                  |                       |                         |              |            |             |      |             |      |                   | 1  |
| 2027 SUBTOTAL |      |                   |                   | 265       | 65325                 | 20                         | 4250                  | 5                     | 1825                    | 28           | 6990       | 102         | 18   | 42185       | 96   | 260               | 18 |
| 2028          | 365  |                   |                   | 215       | 78475                 | 8                          | 2920                  | 5                     | 1825                    | 30           | 10950      | 95          | 15   | 40150       | 60   | 220               | 15 |
| 2028          |      |                   | 42                | 75        | 3150                  | 5                          | 210                   |                       |                         | 10           | 420        | 5           |      | 210         | 60   | 30                | 2  |
| 2028          |      |                   |                   | 10        | 1500                  | 2                          | 300                   |                       |                         |              |            |             |      |             |      |                   | 1  |
| 2028 SUBTOTAL |      |                   |                   | 300       | 83125                 | 15                         | 3430                  | 5                     | 1825                    | 40           | 11370      | 100         | 15   | 40360       | 120  | 250               | 18 |
| 2029          | 313  |                   |                   | 215       | 67295                 | 8                          | 2504                  | 5                     | 1565                    | 30           | 9390       | 89          | 12   | 31613       | 60   | 202               | 14 |
| 2029          |      |                   | 42                | 75        | 3150                  | 5                          | 210                   |                       |                         | 10           | 420        | 5           |      | 210         | 60   | 30                | 2  |
| 2029          |      |                   |                   | 10        | 300                   | 2                          | 60                    |                       |                         |              |            |             |      |             |      |                   | 1  |
| 2029 SUBTOTAL |      |                   |                   | 300       | 70745                 | 15                         | 2774                  | 5                     | 1565                    | 40           | 9810       | 94          | 12   | 31823       | 120  | 232               | 17 |
| TOTALS        |      | 1683              | 210               | 705       | 371370                |                            | 18749                 |                       | 8415                    |              | 47110      |             |      | 181428      | 568  | 1214              | 89 |

<sup>1</sup>SHORT-TERM STAGING ACCOUNTS FOR QWS DEVICES IN EACH DIRECTION FOR LANE CLOSURES AND STAGED MAINLINE SECTIONS THAT EXPERIENCE REGULAR BACKUPS OUTSIDE THE LIMITS OF THE LONG-TERM QWS DEVICES. ESTIMATED AT A TOTAL OF SIX WEEKS FOR EACH YEAR.

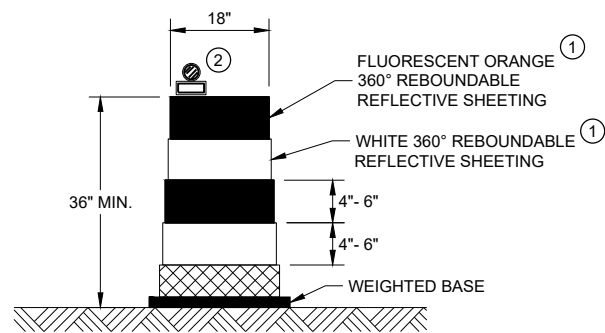
<sup>2</sup>RAMP PCMS ACCOUNTS FOR PCMS IN ADVANCE OF EXIT RAMP PORTABLE TRAFFIC SENSORS FOR MONITORING DIVERTED RAMP TRAFFIC WHEN THERE IS A RAMP CLOSURE.

| 619.1000     | 643.5000        |
|--------------|-----------------|
| MOBILIZATION | TRAFFIC CONTROL |
| EACH         | EACH            |
| 1            | 1               |
| TOTALS       | 1               |

Standard Detail Drawing List

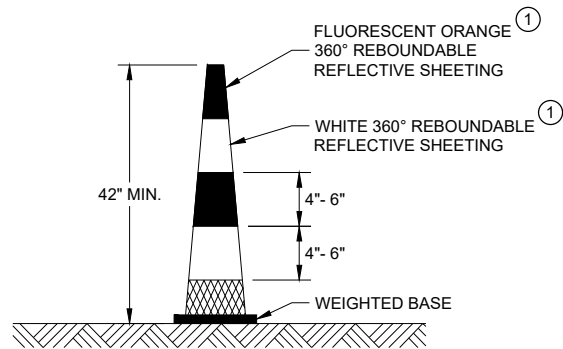
15C11-10B            CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS





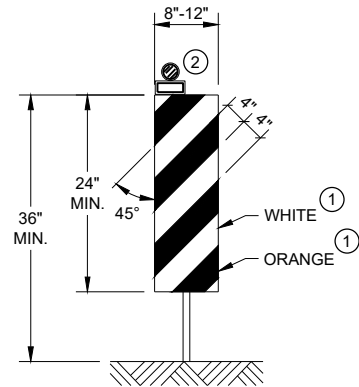
**DRUM**

BALLAST WIDTHS  
RANGE FROM 24"-36"



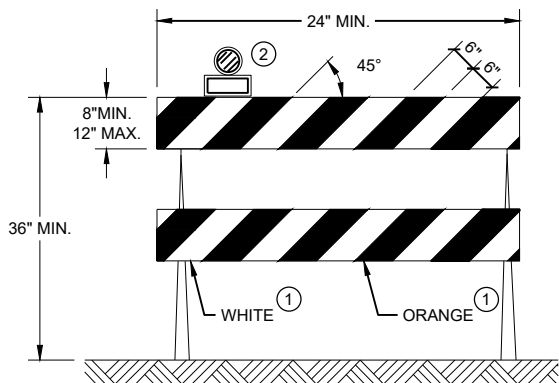
**42" CONE**

DO NOT USE IN TAPERS  
½ SPACING OF DRUMS  
BALLAST WIDTHS  
RANGE FROM 14"-20"



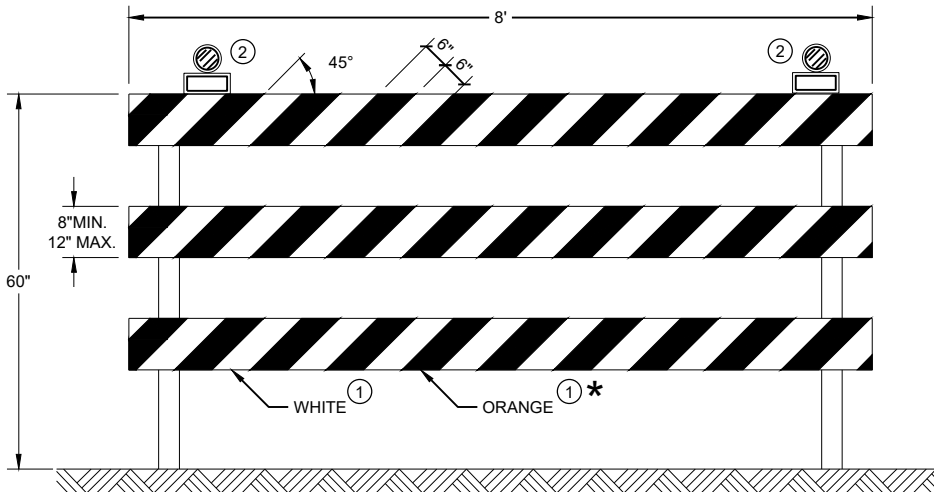
**VERTICAL PANEL**

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



**TYPE II BARRICADE**

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



**TYPE III BARRICADE**

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

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

**GENERAL NOTES**

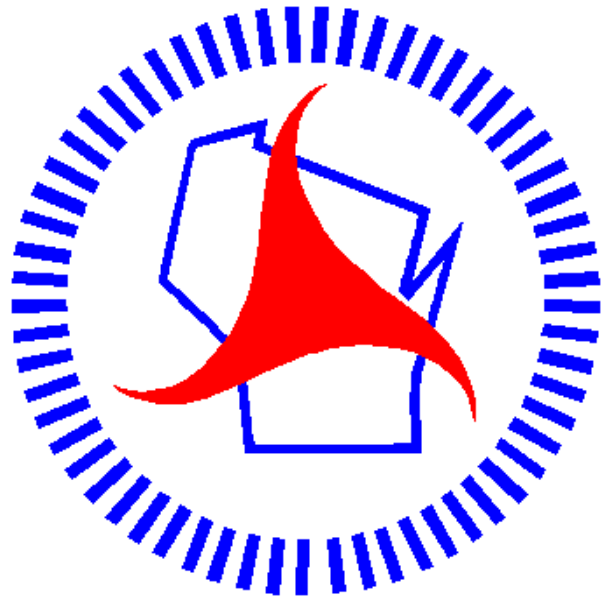
- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

**CHANNELIZING DEVICES  
DRUMS, CONES, BARRICADES  
AND VERTICAL PANELS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
November 2022 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

FHWA



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

Dedicated people creating transportation solutions  
through innovation and exceptional service.

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