| COUNTY: |
|---------|
| 3 |
| |
| 5 |
| A |
| |
| 区 |
| П |
| П |

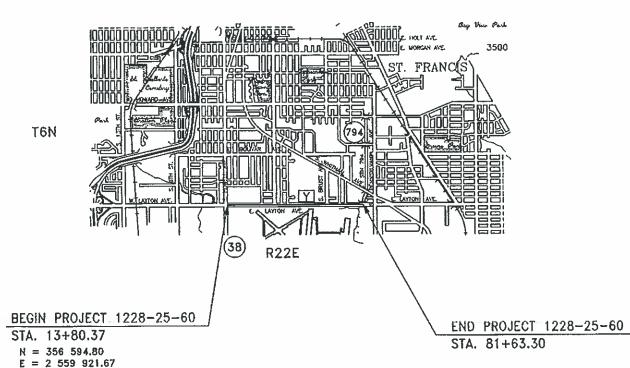
| DIVOAIXI 2014 | |
|--|------------------------------|
| Order of Sheets | STATE OF WISCONSIN |
| Section No. 1 Title Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantitles Section No. 3 Miscellaneous Quantitles Section No. 4 Right of Way Plat | DEPARTMENT OF TRANSPORTATION |
| Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings | PLAN OF PROPOSED IMPROVEMENT |

NS FREEWAY, LAYTON AVE DETOUR

HOWARD AVE TO VALLEY BRIDGE

CTH Y **MILWAUKEE COUNTY**

STATE PROJECT NUMBER 228-25-60



ELEVATIONS SHOWN ON THIS PLAY ARE BASED ON NGYD29.

ALL COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM (WSPCS), NAD27

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT 1228-25-60

> MILWAUKEE COUNTY DEPARTMENT OF TRANSPORTATION TRANSPORTATION SERVICES



RECOMMENDED FOR APP

APPROVED

Director Department of Transportation STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer ALLEN GILBERTSON Project Manager Regional Examiner Regional Supervisor JANES FORSETH

APPROVED FOR THE DEPARTMENT DATE: 7/16/13 Clein 25/07

E



DESIGN DESIGNATION

| A.A.D.T. | 2011 | == | 33, | 500 |
|----------|-------|-----|-----|--------|
| A.A.D.T. | | = | | |
| D.H.V. | | = | | |
| D. | | 26 | | |
| T. | | at. | | |
| DESIGN | SPEEC | == | 40 | M.P.H. |
| ESALS | | 48 | | |

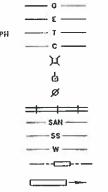
CONVENTIONAL SYMBOLS

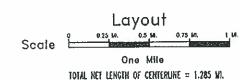
| 001111011110111110 01111100000 | |
|--|----------------|
| COUNTY LINE CORPORATE UNITS PROPERTY LINE LOT LINE LINITED EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE | //// P.L. + |
| SURVEY LINE SLOPE INTERCEPT | _ |
| ORIGINAL GROUND WARSH OR ROCK PROFILE (To be noted as such) | ROCK |
| WARSH AREA | (1 |

WOODED OR SHRUB AREA

COMBUSTIBLE FLUIDS UNDERGROUND STILLTIES ELECTRIC TELEPHONE OR TELEGRAPH COMMUNICATIONS LINE X SERVICE PEDESTAL POWER POLE TELEPHONE POLE RAILROAD SANITARY SEWER STORM SEWER EXISTING CULVERT

-CULYERT (Profile View)





GENERAL NOTES

REMOVALS

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

UTILITIES

THE LOCATION OF EXISTING, ABANDONED AND PROPOSED UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA NOT SHOWN.

THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITY.

EROSION CONTROL/LANDSCAPING

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATION AND DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

SIGNING/MARKING

NO SIGNS SHALL BE REMOVED WITHOUT THE CONSENT OF THE ENGINEER.
ALL SIGNS REMOVED SHALL BE PLACED AT A SITE SPECIFIED BY THE
ENGINEER TO BE PICKED UP BY MILWAUKEE COUNTY.
ANY CONFLICTING SIGN SHALL BE COVERED OR REMOVED.

MISCELLANEOUS

CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.

THE CONTRACTOR SHALL STAMP ALL ENDS OF MONOLITHIC PORTLAND CEMENT CONCRETE SURFACES WITH A STAMP BEARING THEIR NAME AND THE YEAR OF CONSTRUCTION. ALL LETTERING SHALL BE 2-INCH. THE COST OF THIS WORK SHALL BE CONSIDERED TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER PORTLAND CEMENT CONCRETE ITEMS AND NO ADDITIONAL PAYMENT WILL BE MADE.

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



Call 8 1 1
Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www. DiggersHotline.com
WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

LIST OF STANDARD ABBREVIATIONS

ABUT Abutment
AGG Aggregate
AH Ahead
AADT Annual Ave

AADT Annual Average Daily Traffic
ASPH Asphlaltic or Asphalt

BK Back

BM Bench Mark

CB Catch Basin

CL or C/L Center Line

CONC Concrete

CTH County Trunk Highway

CABC Crushed Aggregate Base Course

C&G Curb and Gutter
DHV Design Hourly Volume
DD Directional Distribution

DWY Driveway

EL or ELEV Elevation

ESALS Equivalent Single Axle Loads
EBS Excavation Below Subgrade

CWT Hundredweight

INL Inlet
INV Invert
MH Manhole

MIS Metropolitan Interceptor Sewer

PAVT Pavement PT Point

PCC

S/W

Portland Cement Concrete

 RL or R/L
 Reference Linie

 REQD
 Required

 R/W
 Right-of-Way

 SEC
 Section

SDD Standard Detail Drawing
STH State Trunk Highway

STA Station

SSPRC Storm Sewer Pipe Reinforced Concrete

Sidewalk

TLE Temporary Limited Easement
V Velocityor Design Speed

VERT Vertical VC Vertical Curve

VPC Vertical Point of Curve

NOT TO SCALE

VPI Vertical Point of Intersection
VPT Vertical Point of Tangency

REVISION DATE: 5/23/2013

PROJECT NUMBER: 1228-25-60 HWY: E. LAYTON AVE. (CTH Y) COUNTY: MILWAUKEE GENERAL NOTES

SHEET NO:

MILWAUKEE COUNTY DEPT. OF TRANSPORTATION (MCDOT)- MAINTENANCE DIVISION 10190 WEST WATERTOWN PLANK ROAD WAUWATOSA, WI 53226 ATTN: CHARLES SMELTZER (414) 257-6580

MCDOT TRANSPORTATION DIVISION- TRAFFIC ENGINEERING 2711 WEST WELLS STREET, SUITE 300 MILWAUKEE, WI 53208 ATTN: DANIEL MURPHY (414) 278-4842

MCDOT TRANSPORTATION DIVISION- HIGHWAY ENGINEERING 2711 WEST WELLS STREET, SUITE 300 MILWAUKEE, WI 53208 ATTN: JOSEPH WIECZOREK (414) 278-4893

MCDOT
TRANSPORTATION DIVISION- CONSTRUCTION ENGINEERING
2711 WEST WELLS STREET, SUITE 300
MILWAUKEE, WI 53208
ATTN: AZIZ ALEIOW (414) 278-4911

MCDOT
MAINTENANCE DIVISION-TRAFFIC SIGNAL ELECTRICAL SHOP
10190 W. WATERTOWN PLANK ROAD
WAUWATOSA, WI 53226
ATTN: STANLEY JACKSON (414) 257-6593
GENERAL MITCHELL INTERNATIONAL AIRPORT

OFFICE OF THE AIRPORT ENGINEER 5300 SOUTH HOWELL AVENUE MILWAUKEE, WI 53207 ATTN: JIM ZSEBE (414) 747-5394 CITY OF MILWAUKEE MUNICIPAL BUILDING ROOM 780 841 NORTH BROADWAY MILWAUKEE, WI 53202 ATTN: MR. JEFFREY POLENSKE (414) 286-2400

MILWAUKEE WATER WORKS ATTN: MR. DAVE GOLDAPP (414) 286-6301

STREET LIGHTING ATTN: MR. TOM MANSKE (414) 286-3481

TIME WARNER CABLE
1320 NORTH MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
ATTN: MR. STEVE CRAMER (414) 277-4045
MR. STEVEN VEEDER (414) 908-4766
(FIELD ENGINEER)

WE ENERGIES (GAS OPERATIONS) 333 WEST EVERETT STREET- A279 MILWAUKEE, WI 53203 ATTN: MR. DAN SANDE (414) 221-4578

WE ENERGIES (ELECTRIC)
333 WEST EVERETT STREET- A279
MILWAUKEE, WI 53203
ATTN: MR. DAN SANDE (414) 221-4578

WE ENERGIES (PAVING COORDINATOR) 500 S. 116TH ST. - WAOC WEST ALLIS, WI 53214

AT&T WISCONSIN
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
ATTN: MR. KEVIN ANDERSON (262) 896-7440

WISCONSIN DEPARTMENT OF TRANSPORTATION
SOUTHEAST REGION - SIGNALS
2000 PEWAUKEE ROAD, SUITE A
WAUKESHA, WI 53187-0798
ATTN: MS. ANNE RESHADI-NEZHAD (262) 521-5353

FEDERAL AVIATION ADMINISTRATION
FAA AIRWAY FACILITIES
GMIA AIR TRAFFIC CONTROL TOWER
5330 SOUTH HOWELL AVENUE
MILWAUKEE, WI 53207
ATTN: MR. DAVID KRAUS (414) 489-2200

MILWAUKEE COUNTY TRANSIT SYSTEM 1942 N. 17TH STREET MILWAUKEE, WI 53205 ATTN: DAVE ZIAREK (414) 343-1764

CITY OF ST. FRANCIS

4235 S. NICHOLSON AVENUE
ST. FRANCIS , WI 53217
ATTN: MS. MELINDA DEJEWSKI (414) 481-2300

WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) 2300 NORTH DR. MARTIN LUTHER KING JR. DRIVE MILWAUKEE, WI 53212 ATTN: KRISTINA BETZOLD (414) 263-8517

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT 260 WEST SEEBOTH STREET MILWAUKEE, WI 53204-1446 ATTN: DEBRA JENSEN (414) 225-2241

ORDER OF SECTION 2 SHEETS

TITLE

SHEET NO.

WRITTEN MATERIALS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL
PAVEMENT MARKING
ALIGNMENT DIAGRAM

UTILITIES KNOWN TO EXIST WITHIN PROJECT

DWNER

MILWAUKEE COUNTY DOT

CITY OF MILWAUKEE

WE ENERGIES (GAS)

WE ENERGIES (ELECTRIC)

TIME WARNER CABLE COMMUNICATIONS

AT&T (FORMERLY SBC)

WISCONSIN DOT

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT

QWEST COMMUNICATIONS

MIDWEST FIBER NETWORKS

LEVEL THREE COMMUNICATIONS

GENERAL MITCHELL INTERNATIONAL AIRPORT

SPRINT

UTILITY TYPE

TRAFFIC SIGNALS AND APPURTENANCES

SANITARY SEWERS AND MANHOLES
WATER MAINS, VALVES, LATERALS AND HYDRANTS

GAS MAINS, VALVES AND LATERALS

OVERHEAD CABLES AND BURIED DUCTS

OVERHEAD CABLES ON WE ENERGIES POLES

OVERHEAD CABLES ON WE ENERGIES POLES FIBER OPTICS AND BURIED DUCTS TRAFFIC SIGNAL INTERCONNECT

SANITARY SEWER

BURIED CABLE

BURIED FIBER OPTICS

BURIED FIBER OPTICS

BURIED POWER AND CONTROL CABLES

BURIED FIBER OPTICS



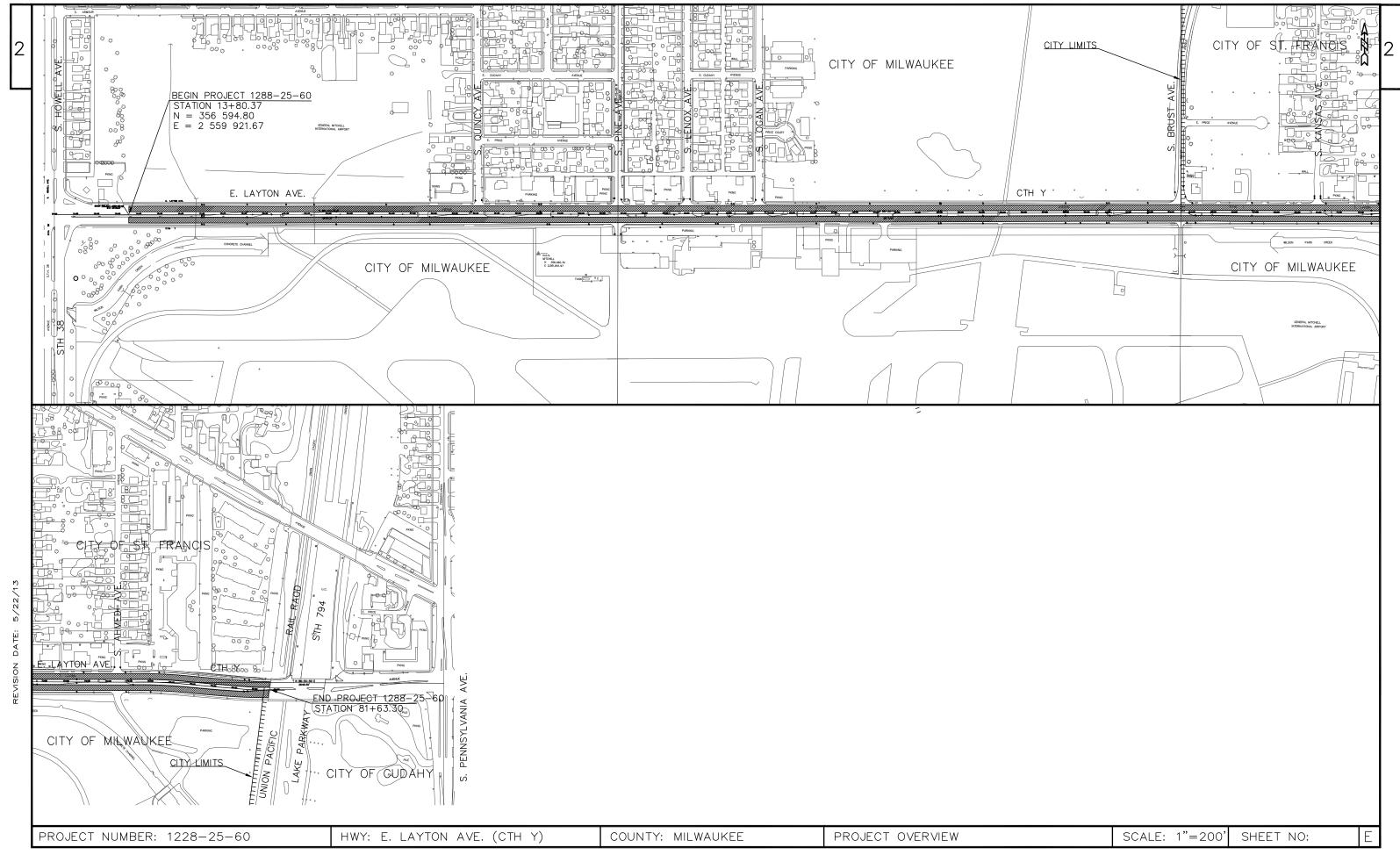
Call 8 1 1 Toll Free (800) 242-8511

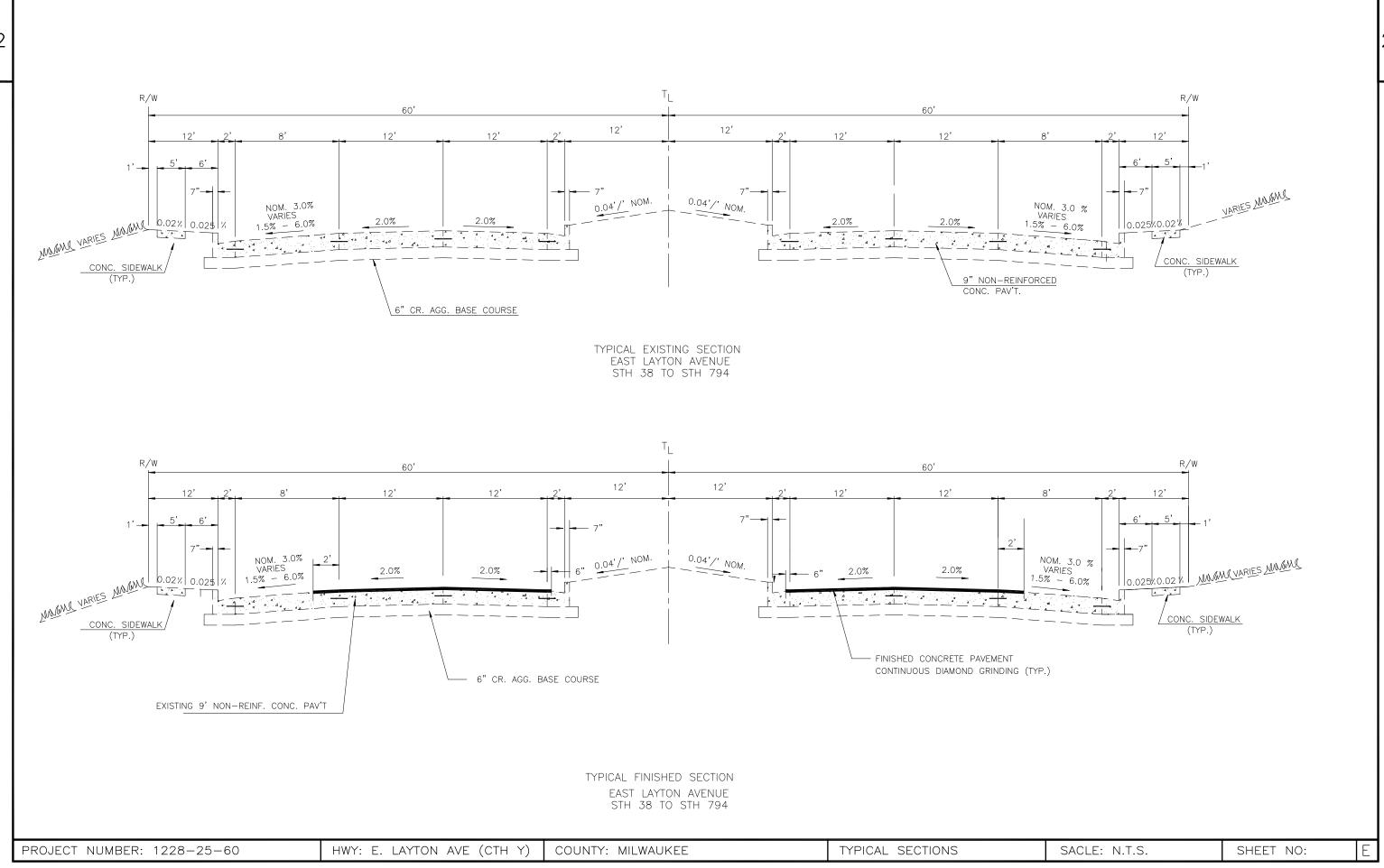
Hearing Impaired TDD (800) 542-2289 www. DiggersHotline.com WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS

NOTICE BEFORE YOU EXCAVATE.

PROJECT NUMBER: 1228-25-60

HWY: E. LAYTON AVE. (CTH Y)



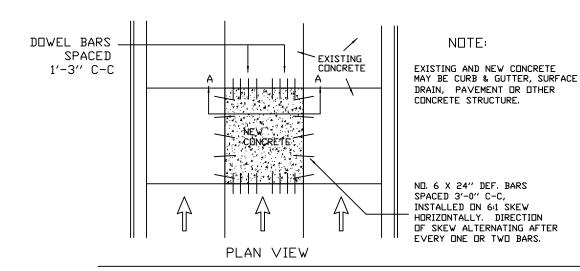


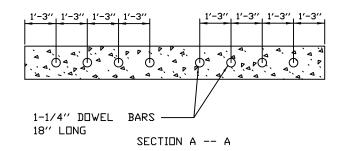
GENERAL NOTES

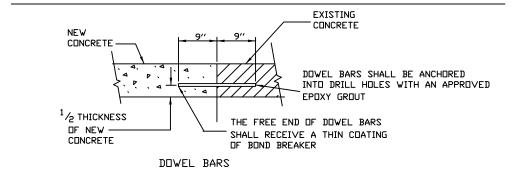
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

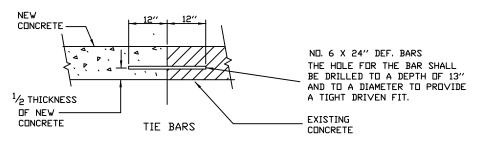
DEFORMED BARS USED AS TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

PAVEMENT JOINTS SHALL BE EXTENDED THROUGH INTEGRAL CURB & GUTTER, JOINTS IN INTEGRAL GUTTER SHALL HAVE THE SAME DIMENSIONS AS THE JOINTS IN THE ADJACENT PAVEMENT. JOINTS IN INTEGRAL CURB SHALL BE 1/8 " WIDE.







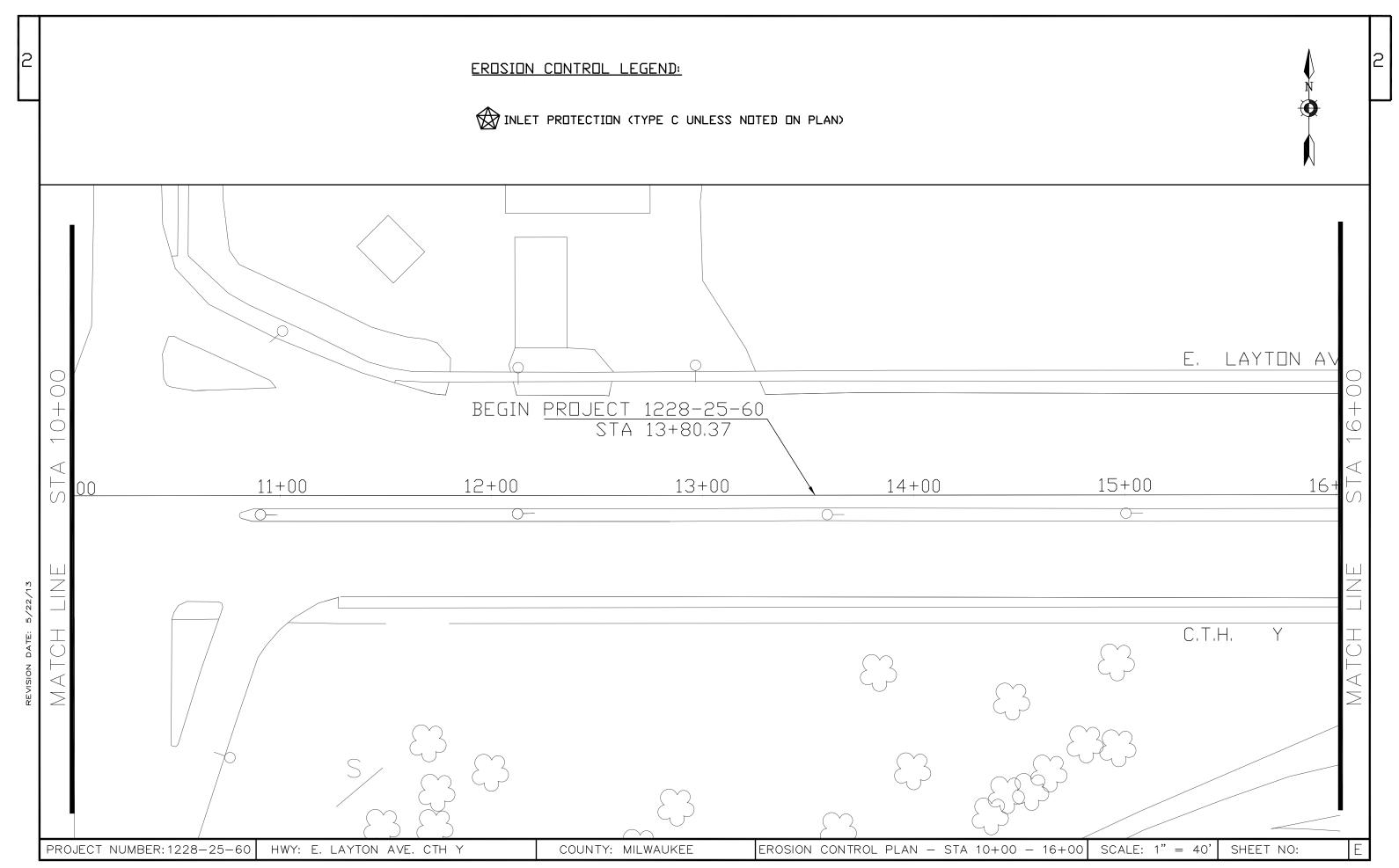


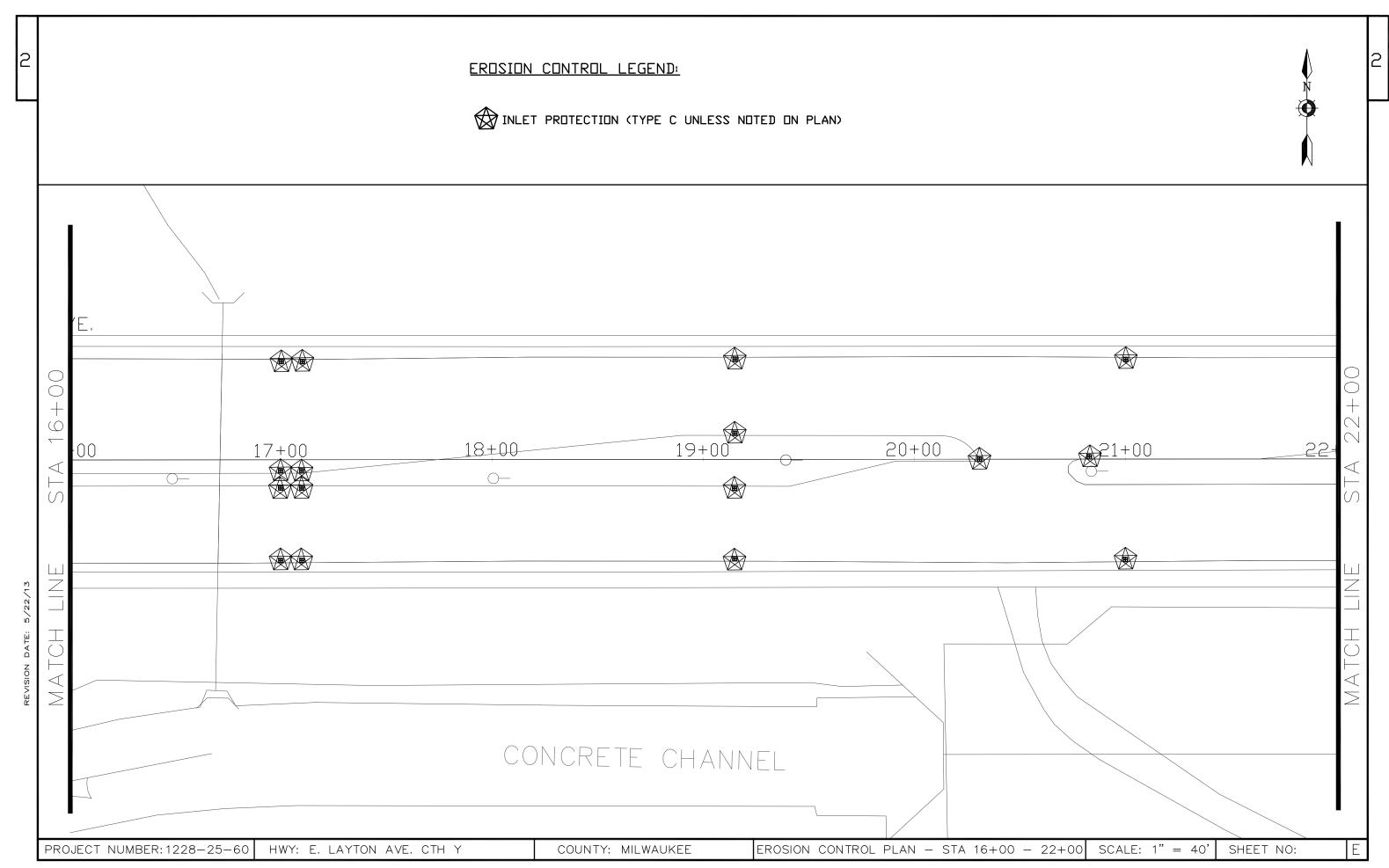
PAVEMENT REPLACEMENT CONCRETE-PAVEMENT TIES

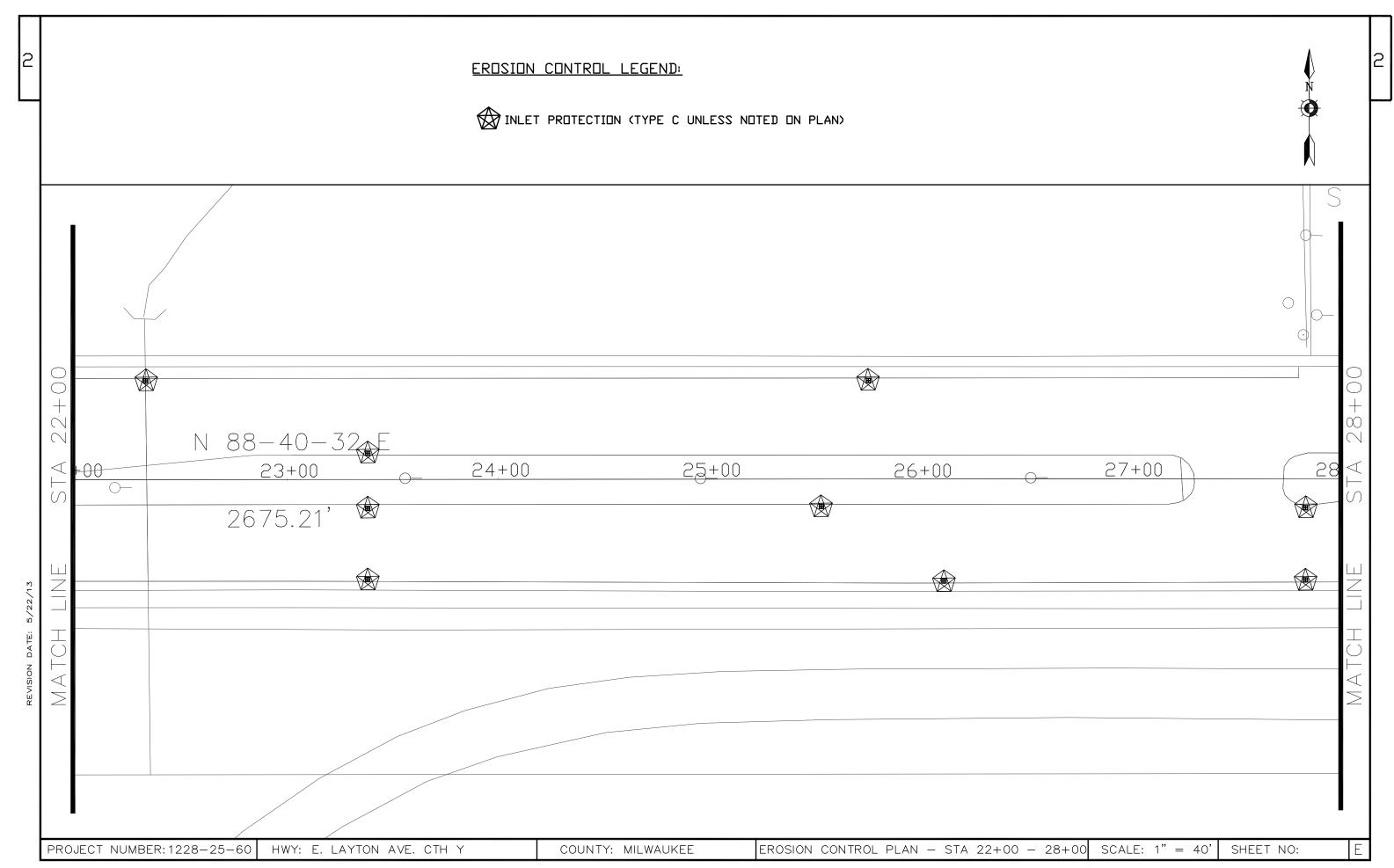
PROJECT NUMBER: 1228-25-60 HWY: E. LAYTON AVE. (CTH Y) COUNTY: MILWAUKEE

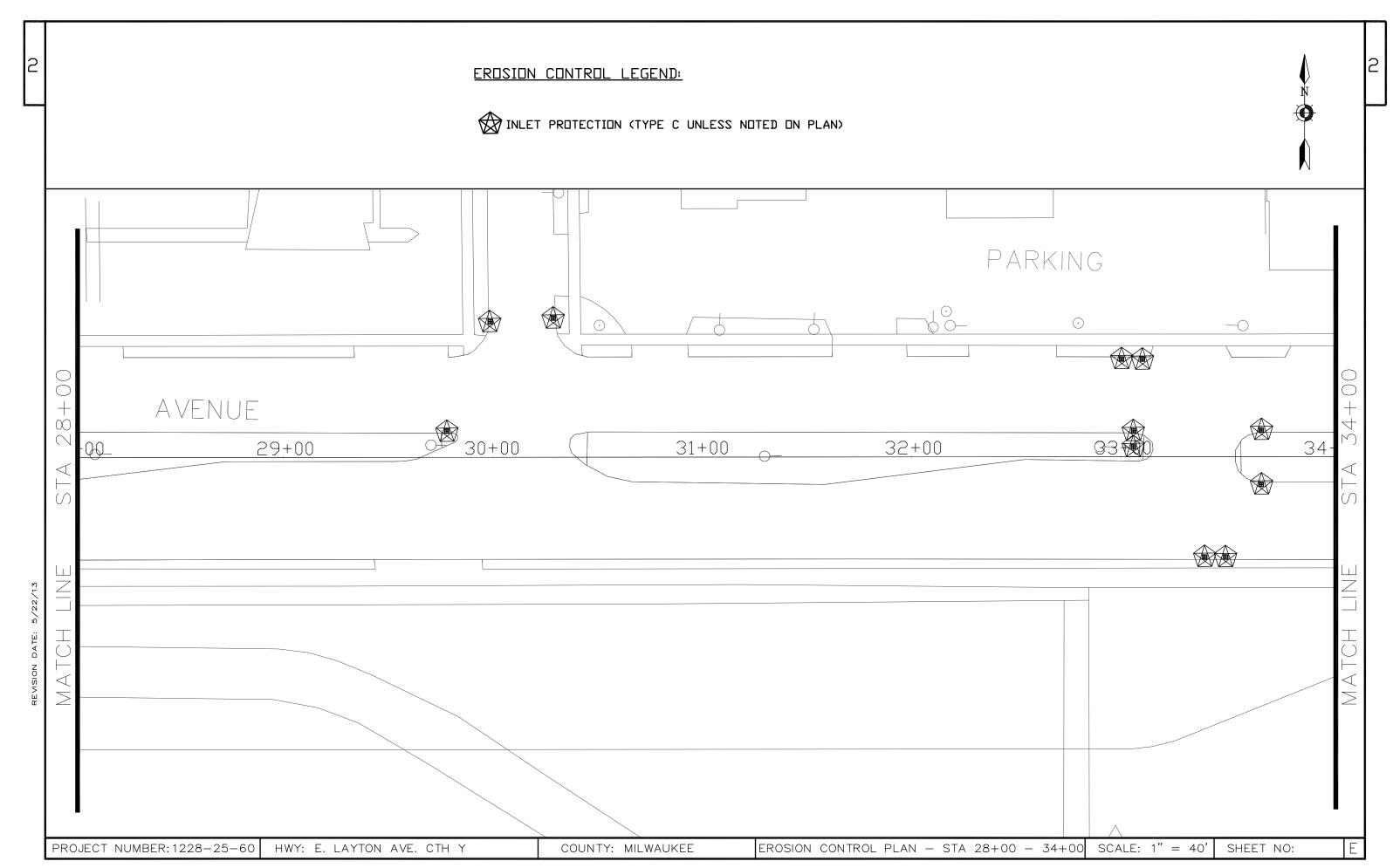
CONSTRUCTION DETAILS | NOT TO SCALE

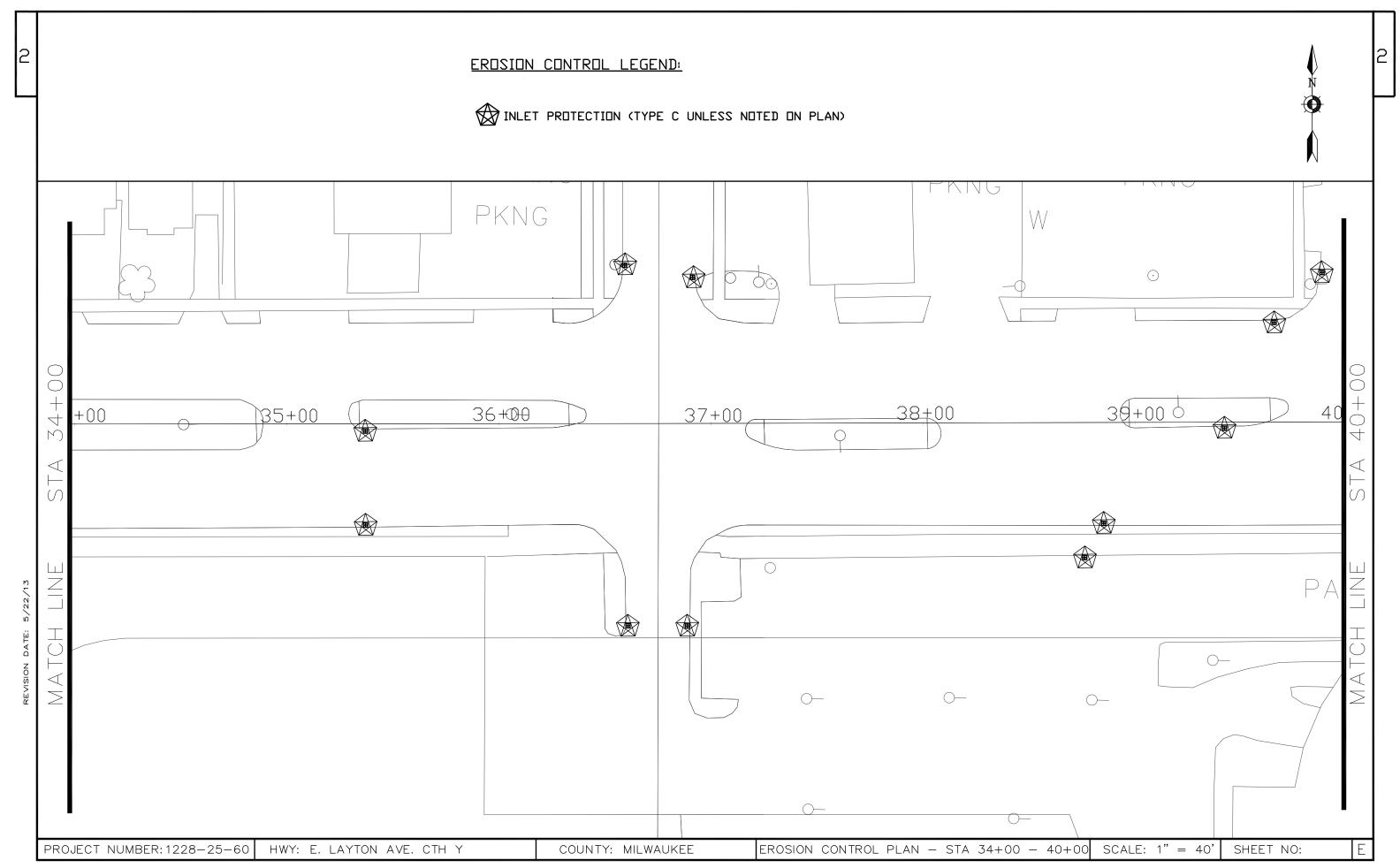
SHEET NO:

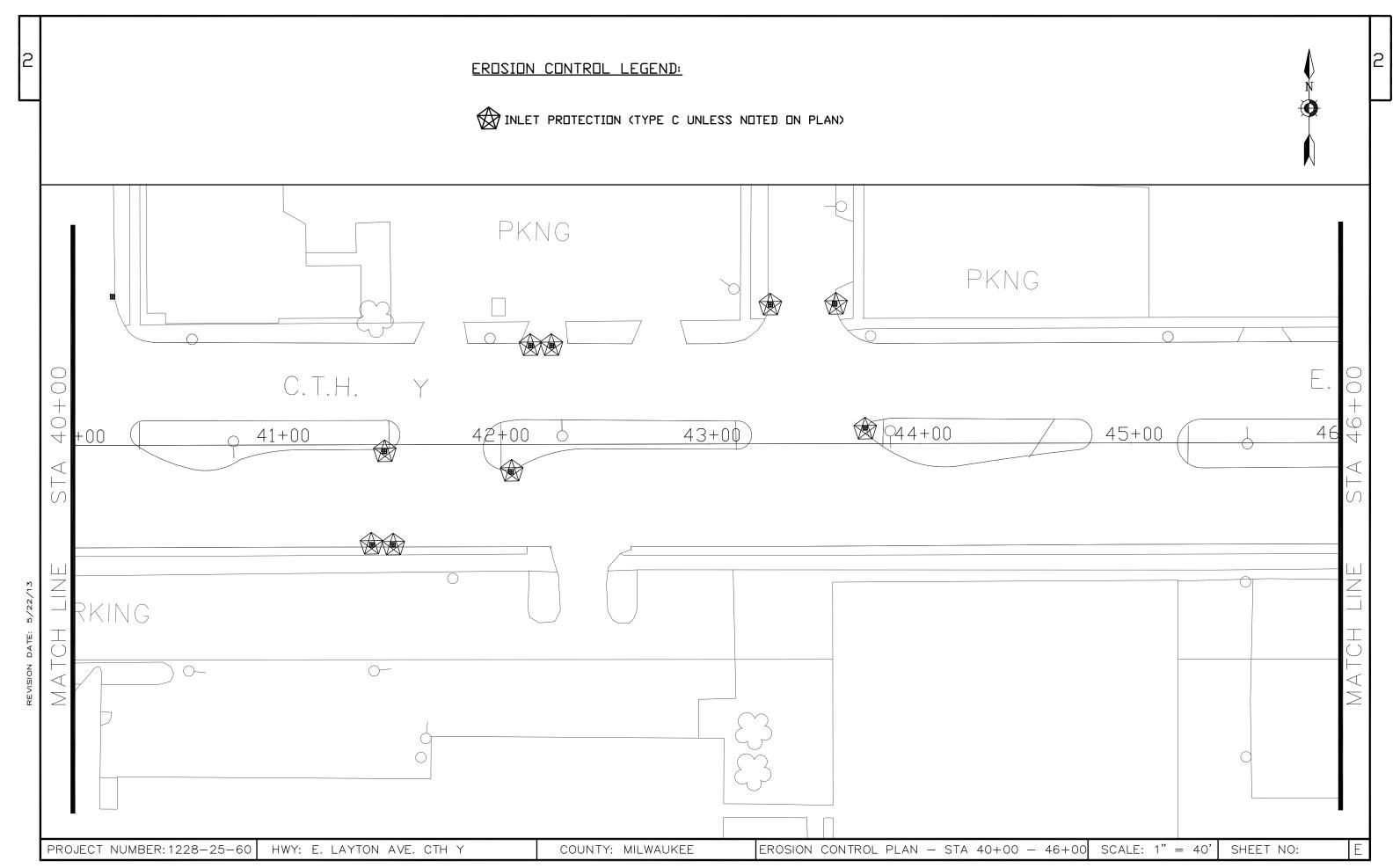


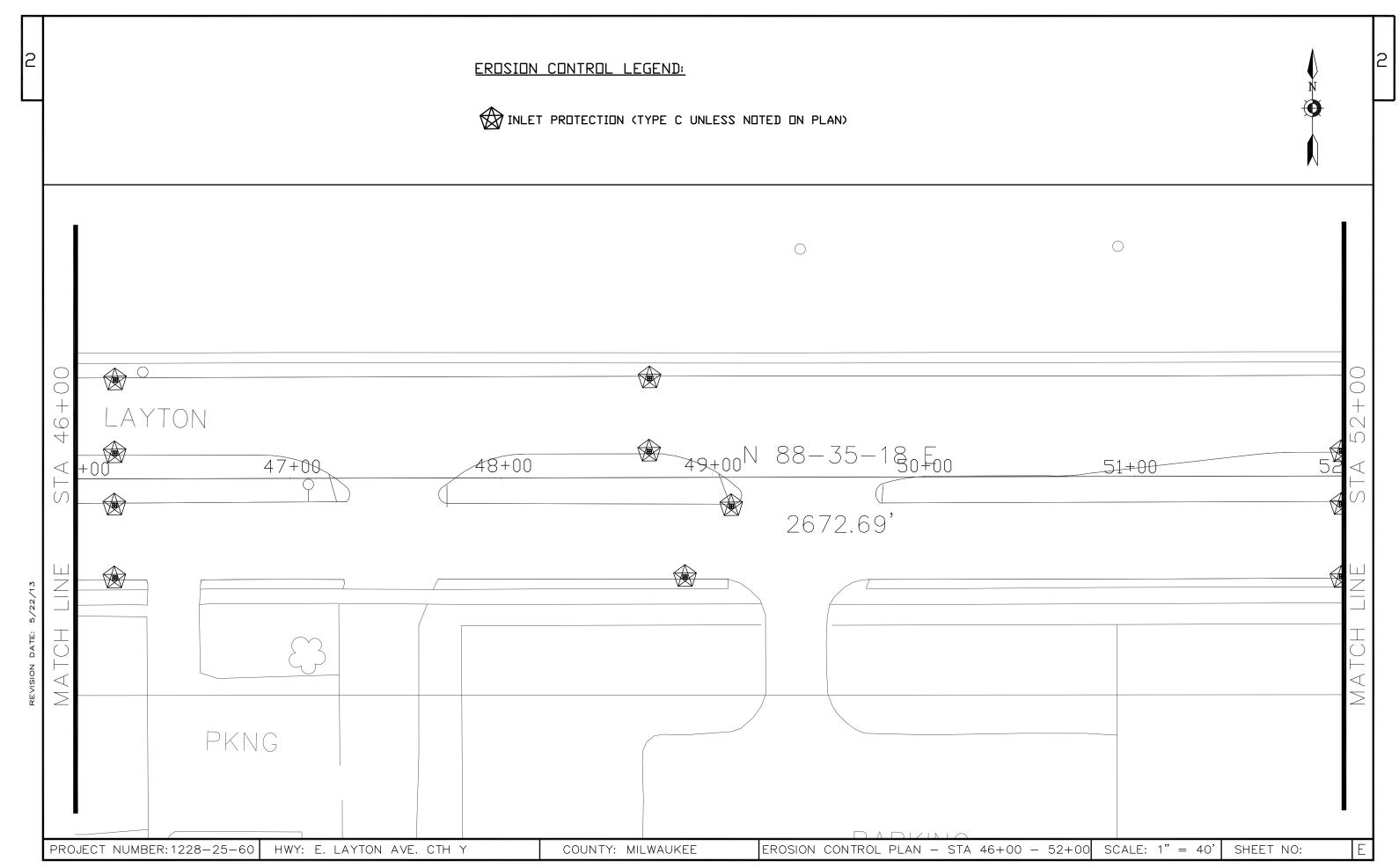


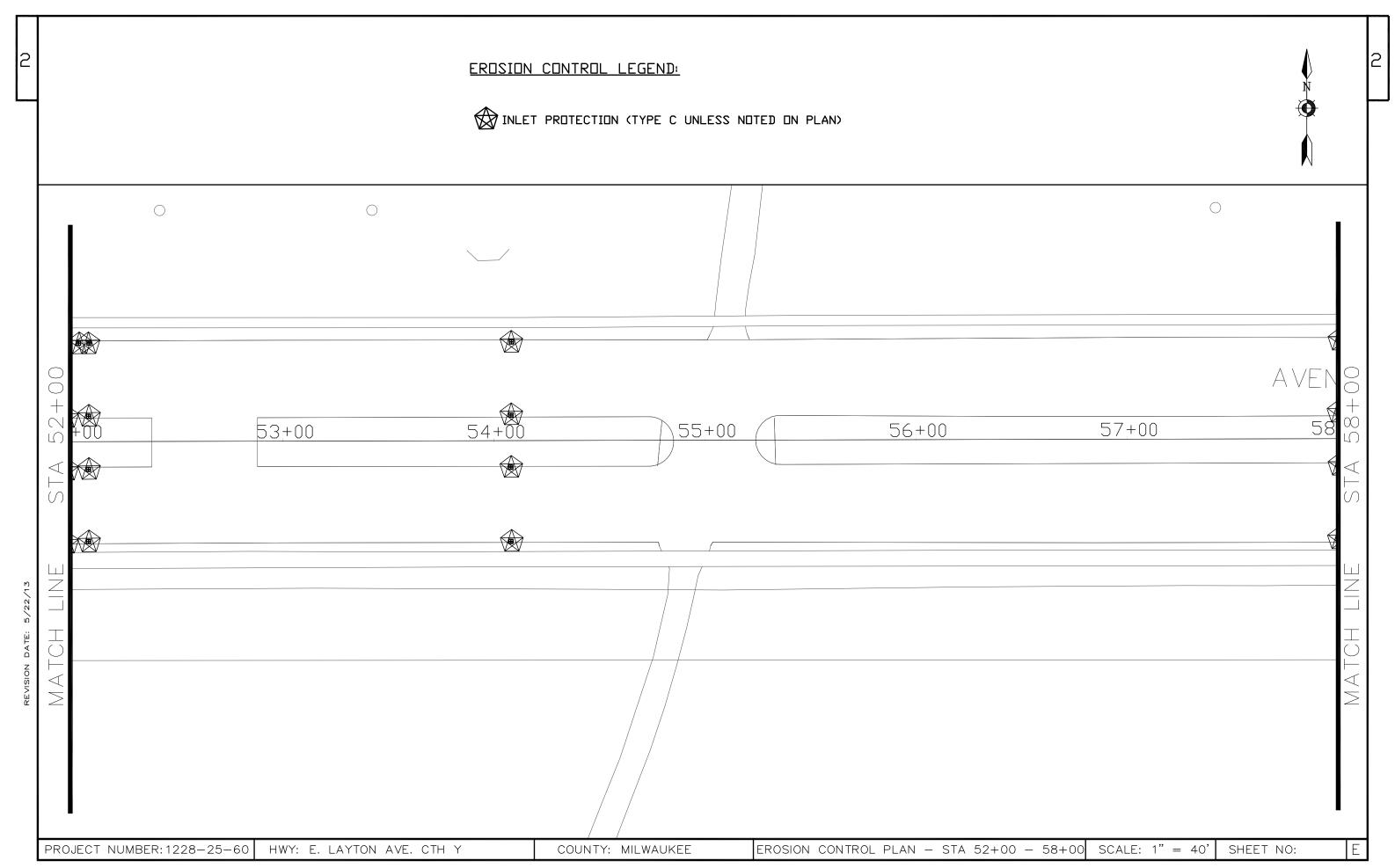


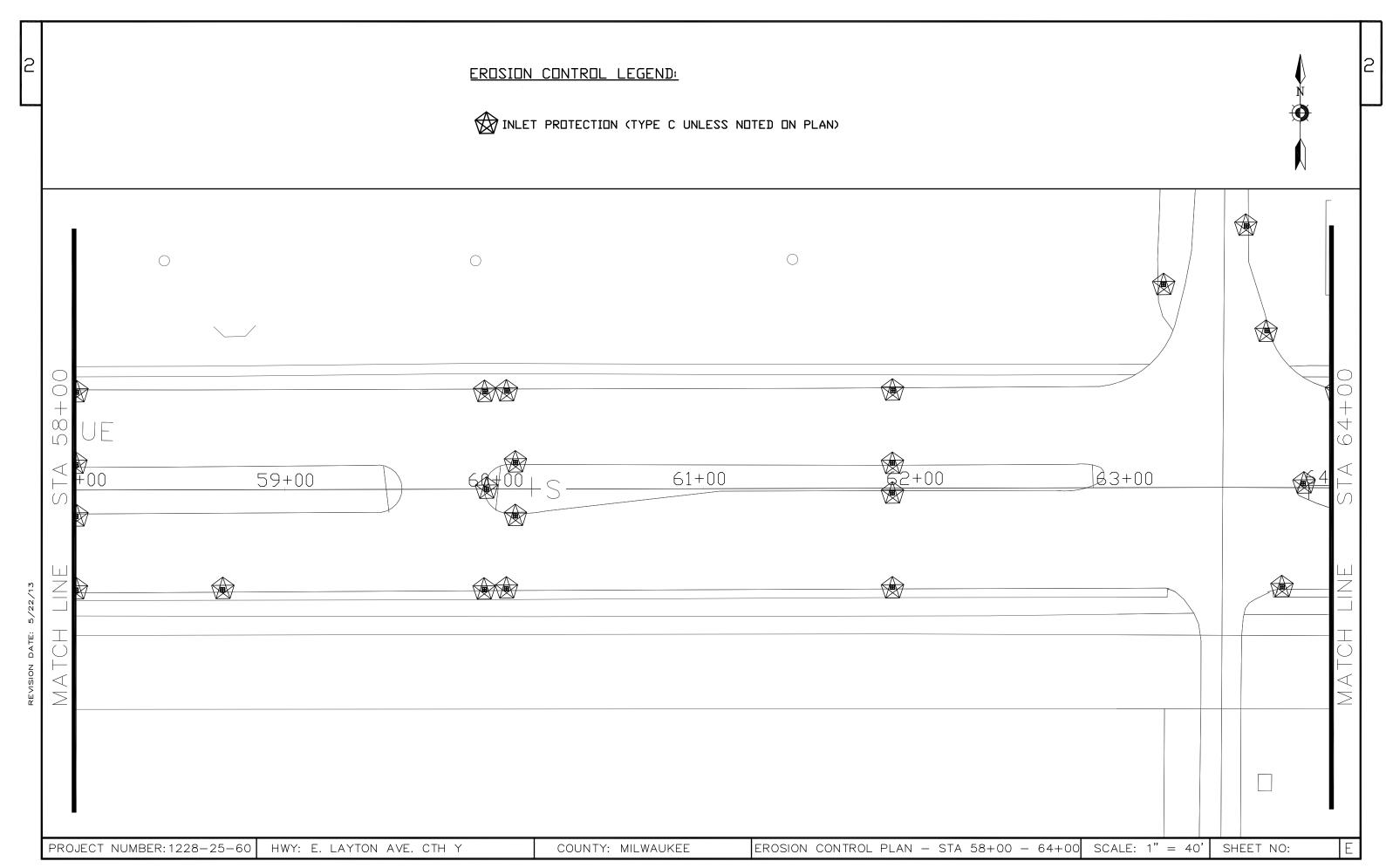


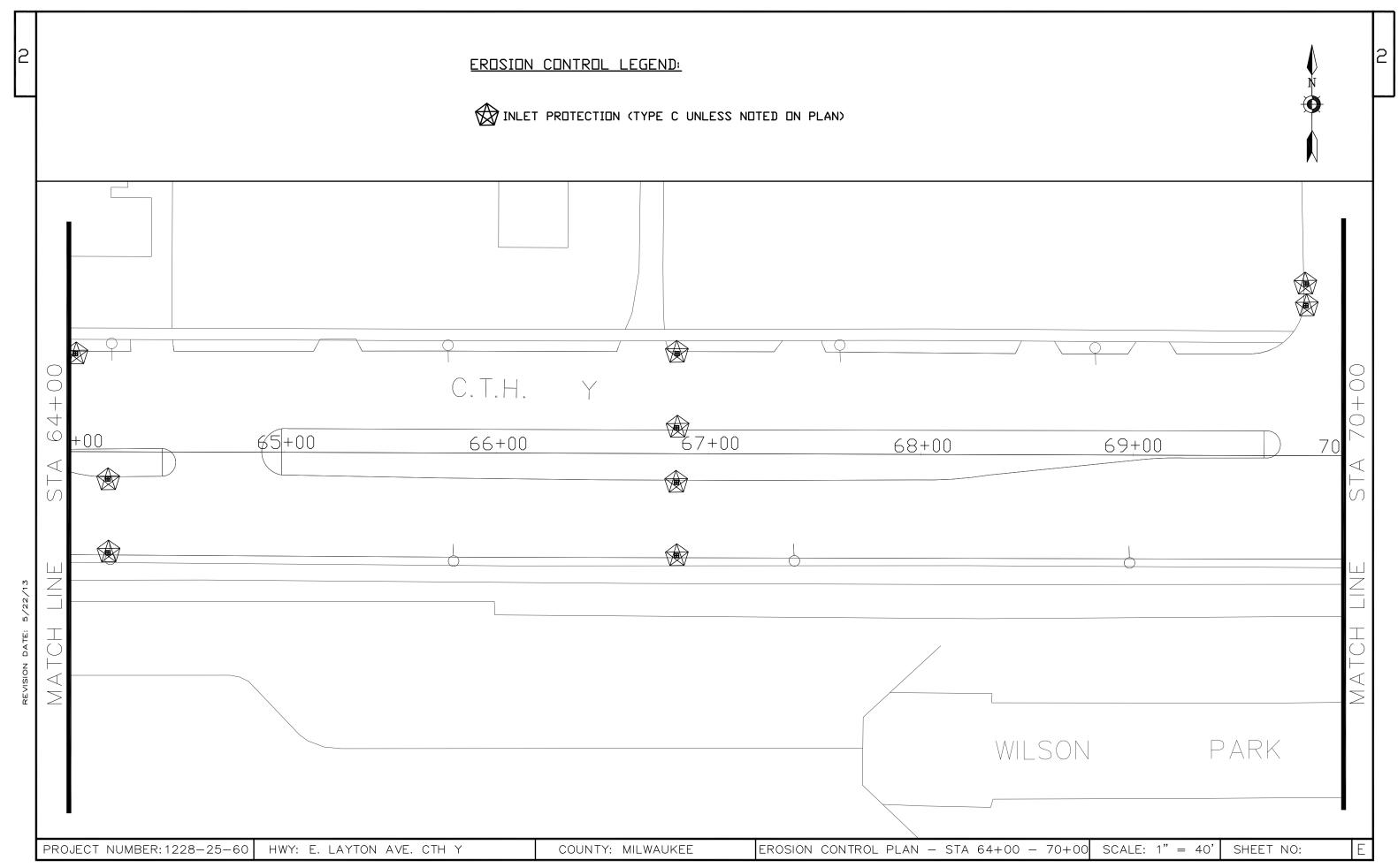


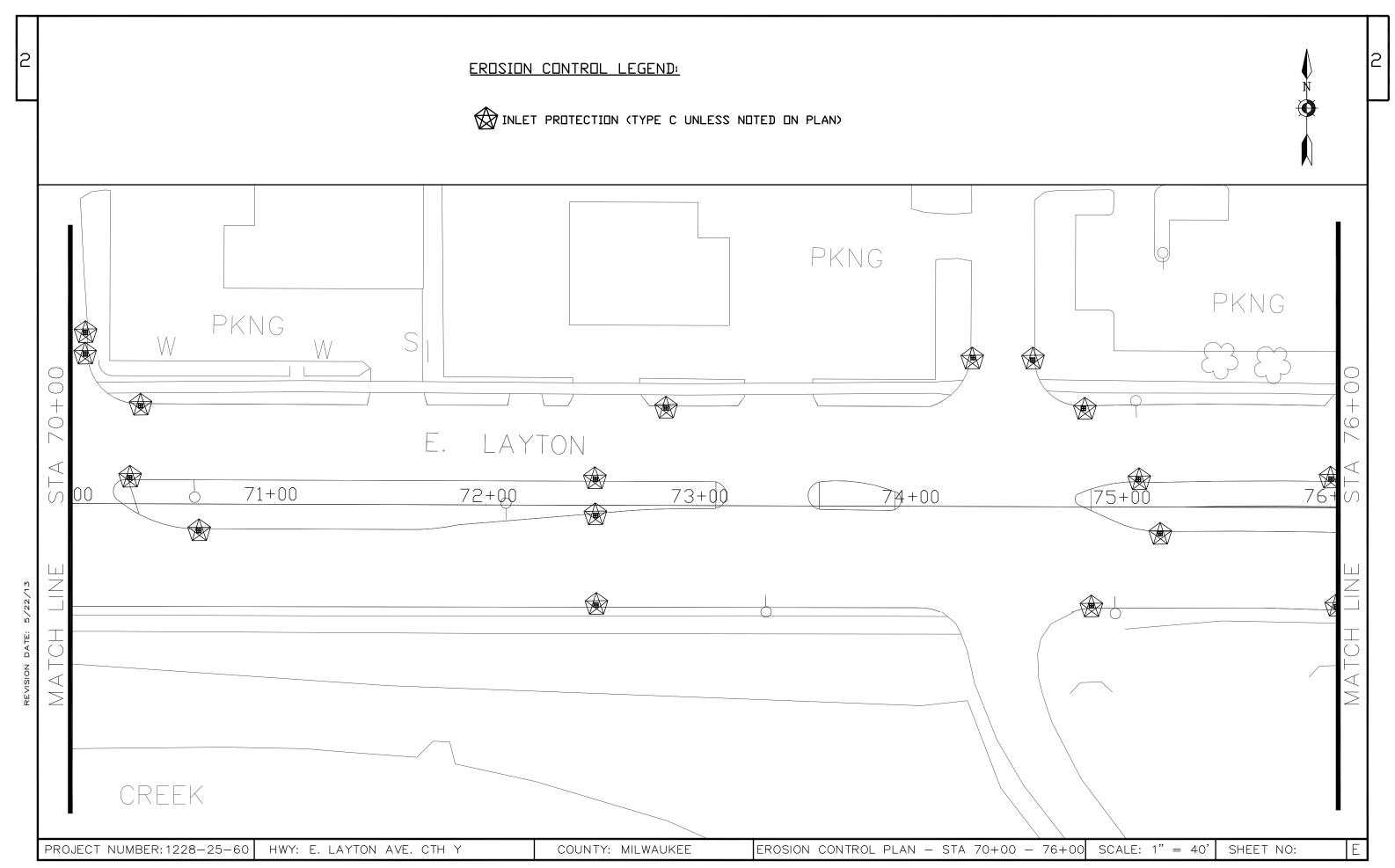


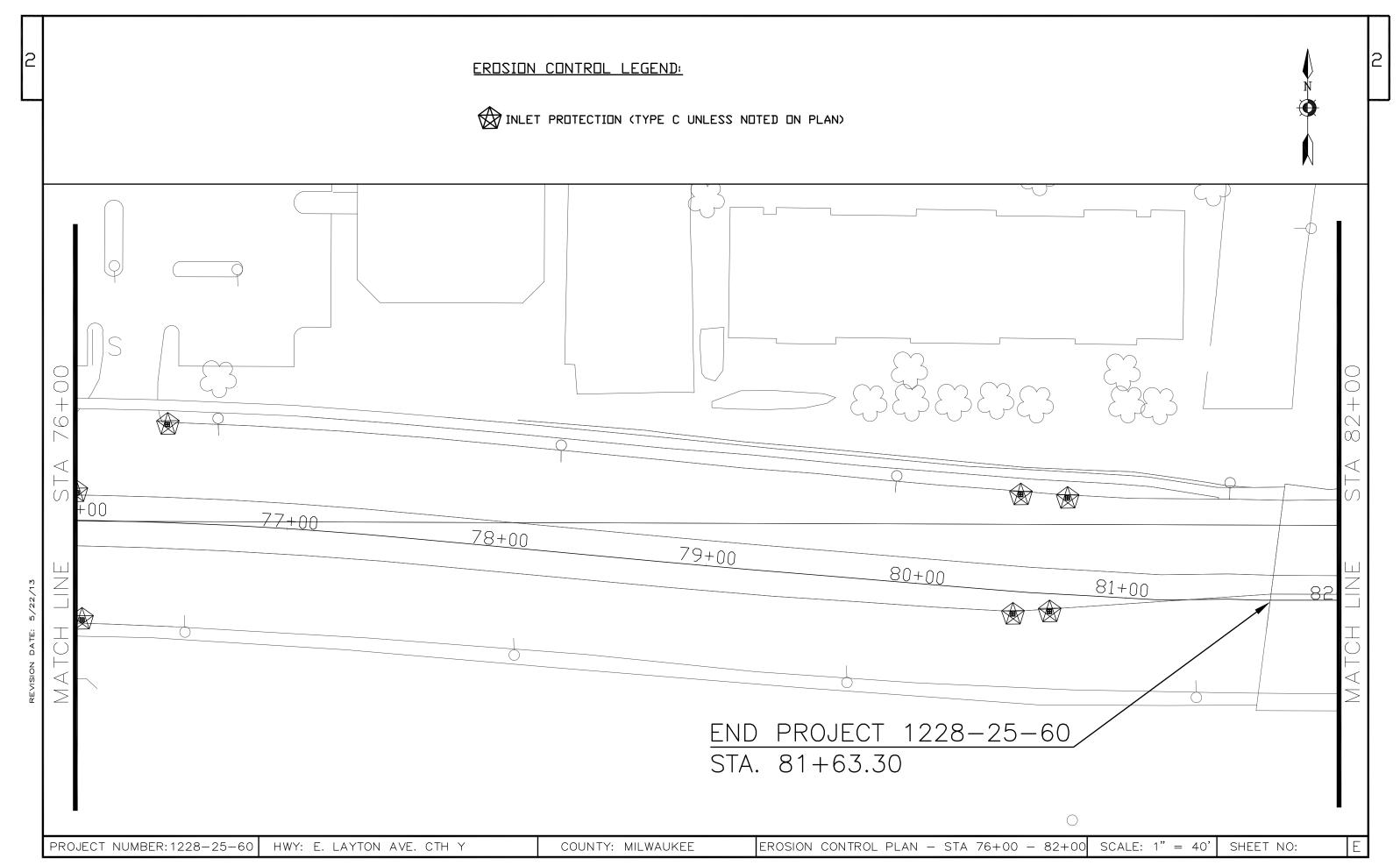


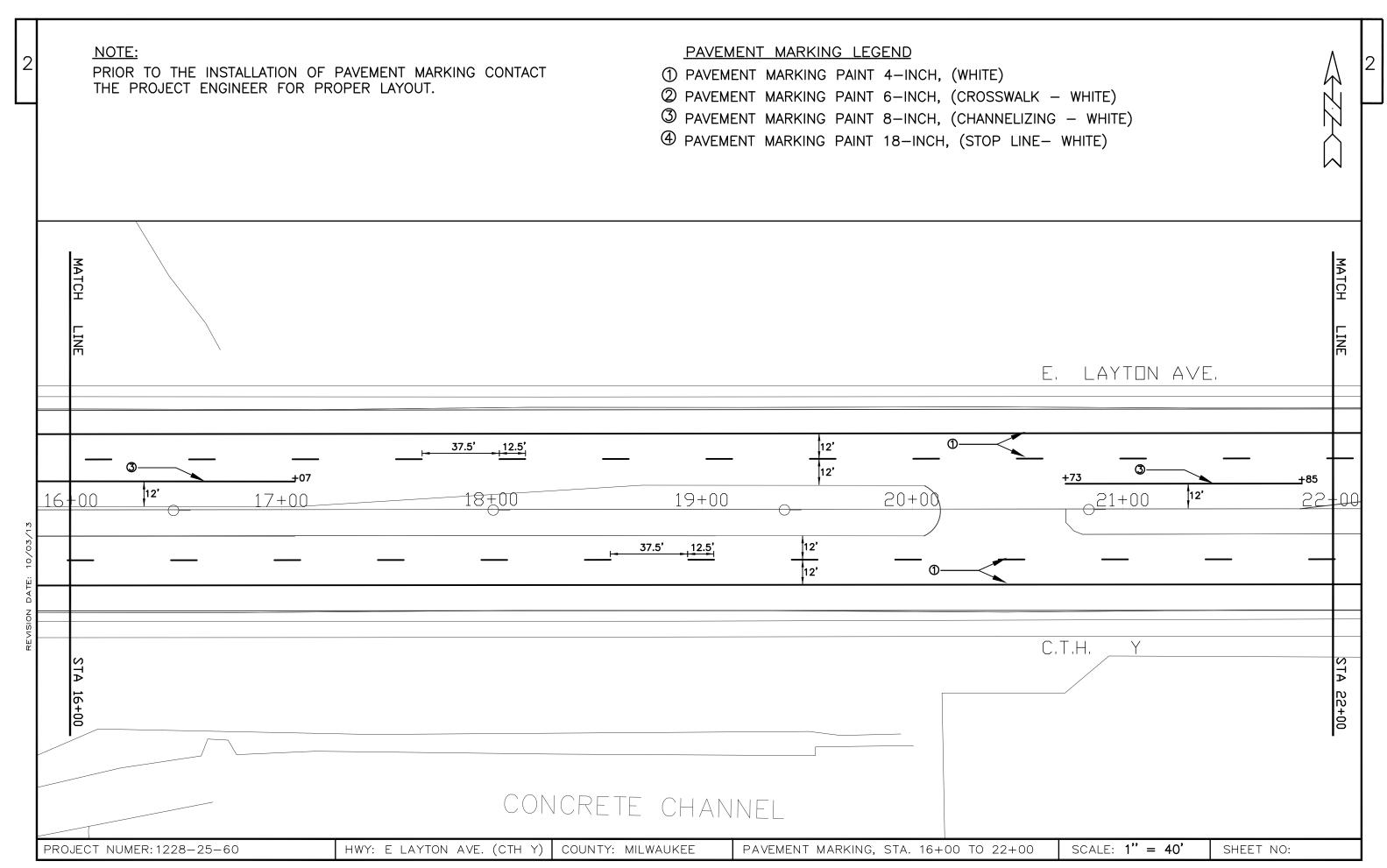


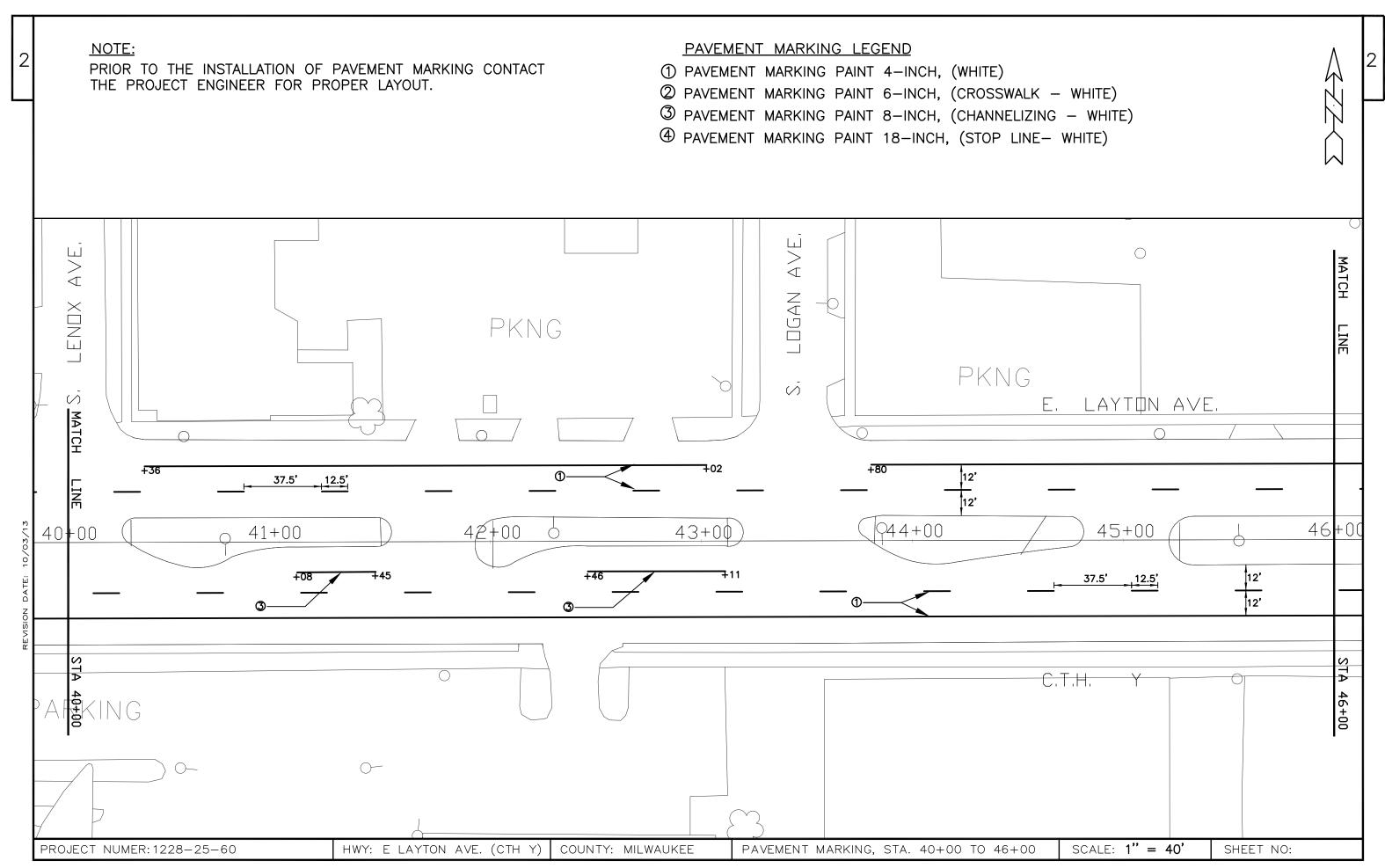


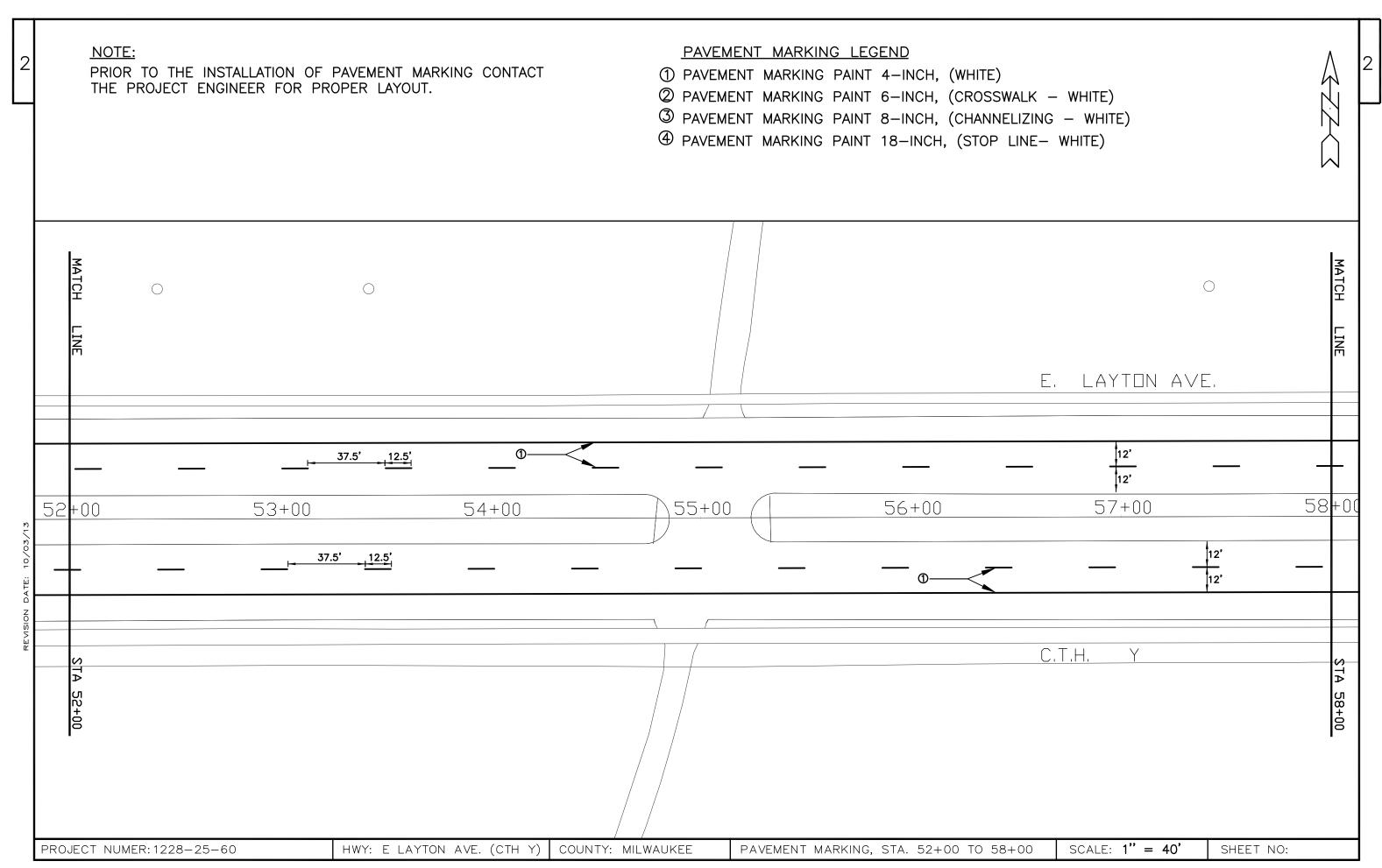












| | NOV13 | E S T | IMAT | E O F Q U A N | | |
|---------------|--------------|--|-------|---------------|-------------------------|--|
| I NE UMBER | ITEM | ITEM DESCRIPTION | UNI T | TOTAL | 1228-25-60 QUANTI TY | |
| 010 | 213. 0100 | FINISHING ROADWAY (PROJECT) 01. | EACH | 1. 000 | 1. 000 | |
| 010 | 213.0100 | 1228-25-60 | LAOIT | 1. 000 | 1. 000 | |
| 020 | 305. 0120 | BASE AGGREGATE DENSE 1 1/4-INCH | TON | 20.000 | 20.000 | |
| 030 | 416. 0610 | DRILLED TIE BARS | EACH | 252.000 | 252. 000 | |
| 040 | 416.0620 | DRILLED DOWEL BARS | EACH | 288. 000 | 288. 000 | |
| 050 | 416. 1725 | CONCRETE PAVEMENT REPLACEMENT SHES | SY | 500.000 | 500.000 | |
| 060 | 420. 1000. S | CONCRETE PAVEMENT CONTINUOUS DIAMOND | SY | 41, 000. 000 | 41, 000. 000 | |
| | | GRI NDI NG | | | | |
| 070 | 619. 1000 | MOBI LI ZATI ON | EACH | 1. 000 | 1. 000 | |
| 080 | 628. 1905 | MOBILIZATIONS EROSION CONTROL | EACH | 1. 000 | 1. 000 | |
| 090 | 628. 1910 | MOBILIZATIONS EMERGENCY EROSION CONTROL | EACH | 1. 000 | 1. 000 | |
| 100 | 628. 7015 | INLET PROTECTION TYPE C | EACH | 130. 000 | 130. 000 | |
| 110 | 643. 0200 | TRAFFIC CONTROL SURVEILLANCE AND | DAY | 30. 000 | 30. 000 | |
| | | MAINTENANCE (PROJECT) 01. 1228-25-60 | | | | |
| 120 | 643.0300 | TRAFFIC CONTROL DRUMS | DAY | 19, 200. 000 | 19, 200. 000 | |
| 130 | 643.0420 | TRAFFIC CONTROL BARRICADES TYPE III | DAY | 960.000 | 960.000 | |
| 140 | 643. 0715 | TRAFFIC CONTROL WARNING LIGHTS TYPE C | DAY | 600.000 | 600.000 | |
| 150 | 643. 0800 | TRAFFIC CONTROL ARROW BOARDS | DAY | 60. 000 | 60. 000 | |
| 160 | 643. 0900 | TRAFFIC CONTROL SIGNS | DAY | 1, 800. 000 | 1, 800. 000 | |
| 170 | 646. 0103 | PAVEMENT MARKING PAINT 4-INCH | LF | 16, 310. 000 | 16, 310. 000 | |
| 180 | 646. 0123 | PAVEMENT MARKING PAINT 8-INCH | LF | 1, 220. 000 | 1, 220. 000 | |
| 190 | 647. 0563 | PAVEMENT MARKING STOP LINE PAINT 18-INCH | LF | 200.000 | 200.000 | |
| 200 | 647. 0763 | PAVEMENT MARKING CROSSWALK PAINT 6-INCH | LF | 630. 000 | 630. 000 | |
| 210 | 690. 0250 | SAWING CONCRETE | LF | 1, 280. 000 | 1, 280. 000 | |

BASE
AGGREGATE
DENSE 1 1/4INCH

20

20 TON

| | ITEM 416.1725 | | | |
|---------------|-----------------------------------|--|--|--|
| | CONCRETE PAVEMEN REPLACEMENT SHES | | | |
| LOCATION | SY | | | |
| UNDISTRIBUTED | 500 | | | |
| ITEM TOTALS | 500 | | | |
| | SY | | | |

| | ITEM 416.0610 | ITEM 416.0620 |
|---------------|---------------------|--------------------------|
| | DRILLED TIE BARS | DRILLED DOWEL BARS |
| LOCATION | EA | EA |
| UNDISTRIBUTED | 252 | 288 |
| ITEM TOTALS | 252 | 288 |
| | EA | EA |

| | ITEM 420.1000.S |
|---------------|---|
| | CONCRETE PAVEMENT CONTINUOUS DIAMOND GRINDING |
| LOCATION | SY |
| 10+00 - 16+00 | 1600 |
| 16+00 - 22+00 | 3600 |
| 22+00 - 28+00 | 3600 |
| 28+00 - 34+00 | 3600 |
| 34+00 - 40+00 | 3600 |
| 40+00 - 46+00 | 3600 |
| 46+00 - 52+00 | 3600 |
| 52+00 - 58+00 | 3600 |
| 58+00 - 64+00 | 3600 |
| 64+00 - 70+00 | 3600 |
| 70+00 - 76+00 | 3600 |
| 76+00 - 84+00 | 3400 |
| ITEM TOTALS | 41000 |
| | SY |

| | ITEM 619.1000 MOBILIZATION |
|-----------------|-------------------------------|
| LOCATION | EA |
| PROJ 1228-25-60 | 1 |
| ITEM TOTALS | 1 |
| | EA |

| | ITEM 628.1905 |
|-----------------|------------------|
| | MOBILIZATIONS |
| | EROSION |
| | CONTROL |
| LOCATION | EA |
| PROJ 1228-25-60 | 1 |
| ITEM TOTALS | 1 |
| | EA |
| | |
| | ITEM 628.1910 |
| | MOBILIZATIONS |
| | EMERGENCY |
| | EROSION |
| | CONTROL |
| LOCATION | EA |
| PROJ 1228-25-60 | 1 |
| ITEM TOTALS | 1 |
| | FA |

UNDISTRIBUTED

ITEM TOTAL

| | ITEM 628.7015 INLET PROTECTION TYPE C |
|---------------|--|
| LOCATION | TOTAL EACH |
| 10+00 - 16+00 | 0 |
| 16+00 - 22+00 | 16 |
| 22+00 - 28+00 | 9 |
| 28+00 - 34+00 | 11 |
| 34+00 - 40+00 | 11 |
| 40+00 - 46+00 | 9 |
| 46+00 - 52+00 | 11 |
| 52+00 - 58+00 | 9 |
| 58+00 - 64+00 | 21 |
| 64+00 - 70+00 | 9 |
| 70+00 - 76+00 | 15 |
| 76+00 - 84+00 | 7 |
| UNDISTRIBUTED | 2 |
| ITEM TOTALS | 130 |

| TRAFFIC CONTROL ITEMS | | | | | | |
|-----------------------|--|-------------------------------------|--|--|--|----------------------------------|
| * | ITEM 643.0200 | ITEM 643.0300 | ITEM 643.0420 | ITEM 643.0715 | ITEM 643.0800 | ITEM 643.0900 |
| | TRAFFIC CONTROL SURVEILANCE & MAINTENANCE DAYS | TRAFFIC CONTROL DRUMS DAYS | TRAFFIC CONTROL BARRICADES TYPE III DAYS | TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS | TRAFFIC CONTROL WARNING ARROW BOARDS DAYS | TRAFFIC CONTROL SIGNS DAYS |
| UNDISTRIBUTED | 30 | 19,200 | 960 | 600 | 60 | 1,800 |
| ITEM TOTAL | 30 DAYS | 19,200 DAYS | 960 DAYS | 600 DAYS | 60 DAYS | 1,800 DAYS |

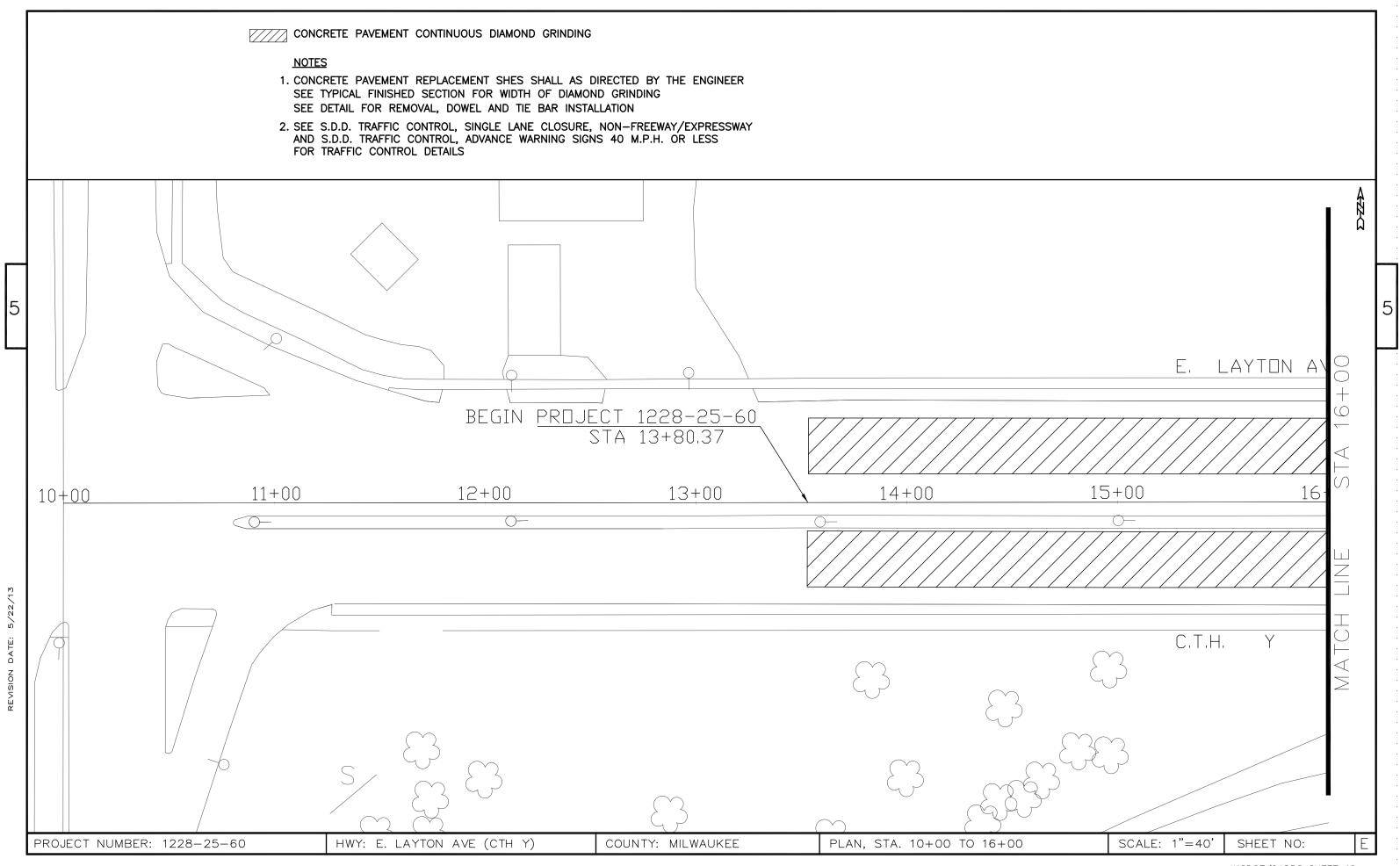
CATEGORY SUMMARY: ALL ITEMS THIS SHEET ARE CATEGORY 0010

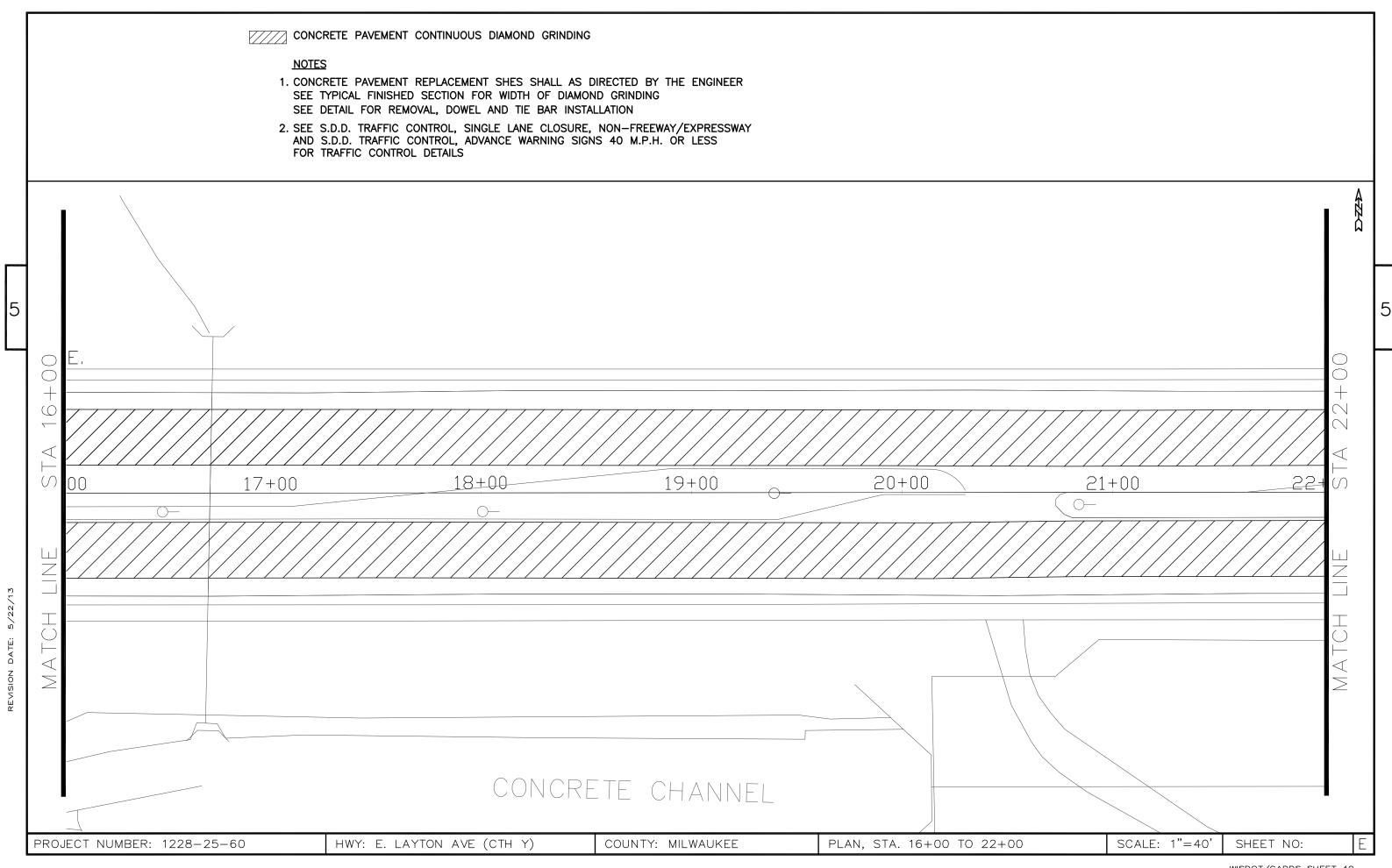
| | | | LF | LF | LF | LF |
|-------|-------------|-------|----------|--------------|-----------|-----------|
| | ITEM TOTALS | | 16310 | 1220 | 200 | 630 |
| 76+00 | to | 84+00 | 1430 | 0 | 0 | 0 |
| 70+00 | to | 76+00 | 1395 | 70 | 0 | 0 |
| 64+00 | to | 70+00 | 1470 | 95 | 0 | 0 |
| 58+00 | to | 64+00 | 1300 | 185 | 105 | 210 |
| 52+00 | to | 58+00 | 1500 | 0 | 0 | 0 |
| 46+00 | to | 52+00 | 1500 | 70 | 0 | 0 |
| 40+00 | to | 46+00 | 1400 | 100 | 0 | 0 |
| 34+00 | to | 40+00 | 1270 | 230 | 95 | 420 |
| 28+00 | to | 34+00 | 1450 | 140 | 0 | 0 |
| 22+00 | to | 28+00 | 1500 | 0 | 0 | 0 |
| 16+00 | to | 22+00 | 1525 | 110 | 0 | 0 |
| 10+00 | to | 16+00 | 570 | 220 | 0 | 0 |
| | LOCATION | | LF | LF | LF | LF |
| | | | WHITE | WHITE | WHITE | WHITE |
| | | | 4-INCH | 8-INCH | 18-INCH | 6-INCH |
| | | | PAINT | PAINT | PAINT | PAINT |
| | | | | CHANNELIZING | STOP LINE | CROSSWALK |
| | | | MARKING | MARKING | MARKING | MARKING |
| | | | PAVEMENT | PAVEMENT | PAVEMENT | PAVEMENT |
| | | | 646.0103 | 646.0123 | 647.0563 | 647.0763 |

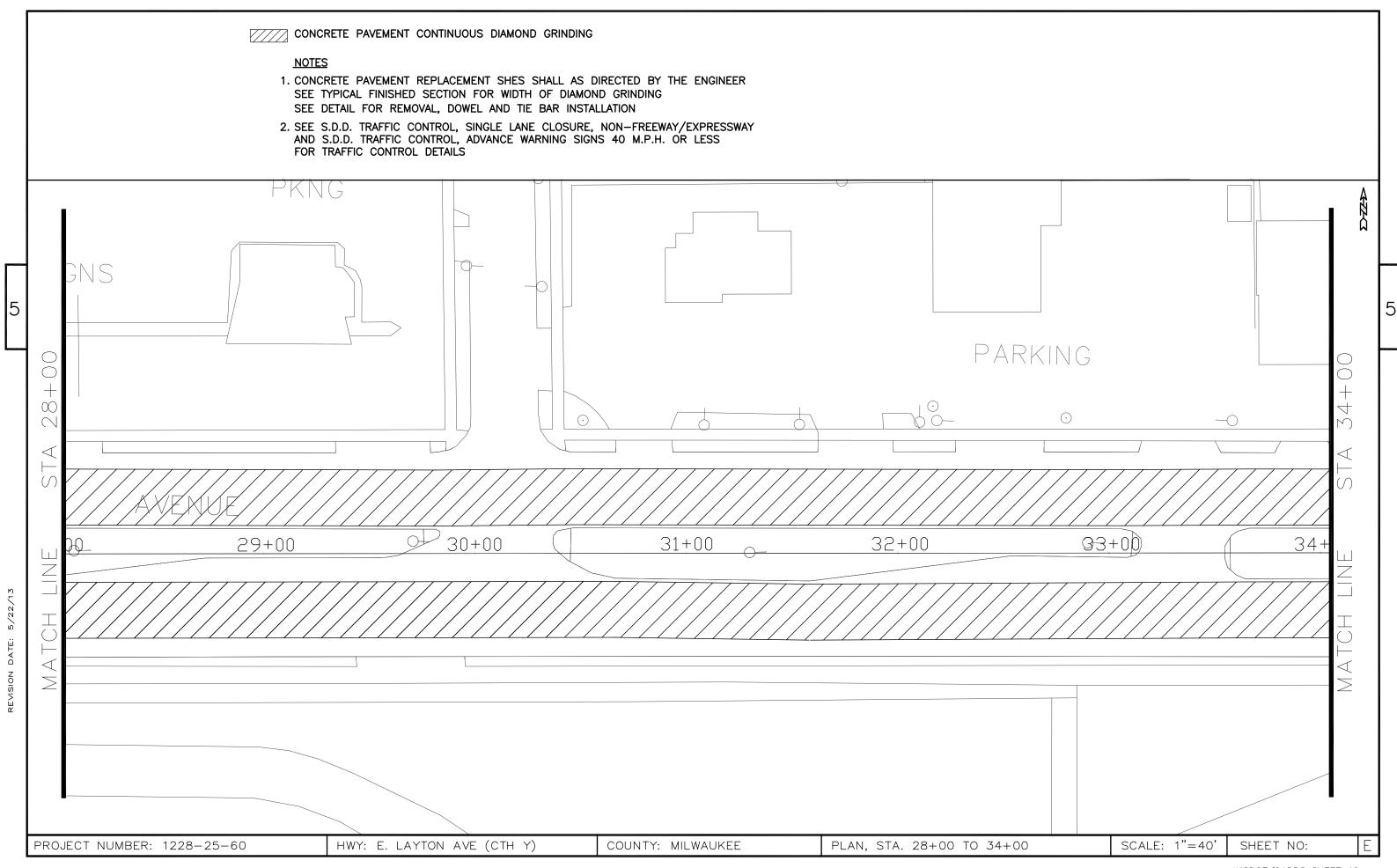
PAVEMENT MARKING ITEMS

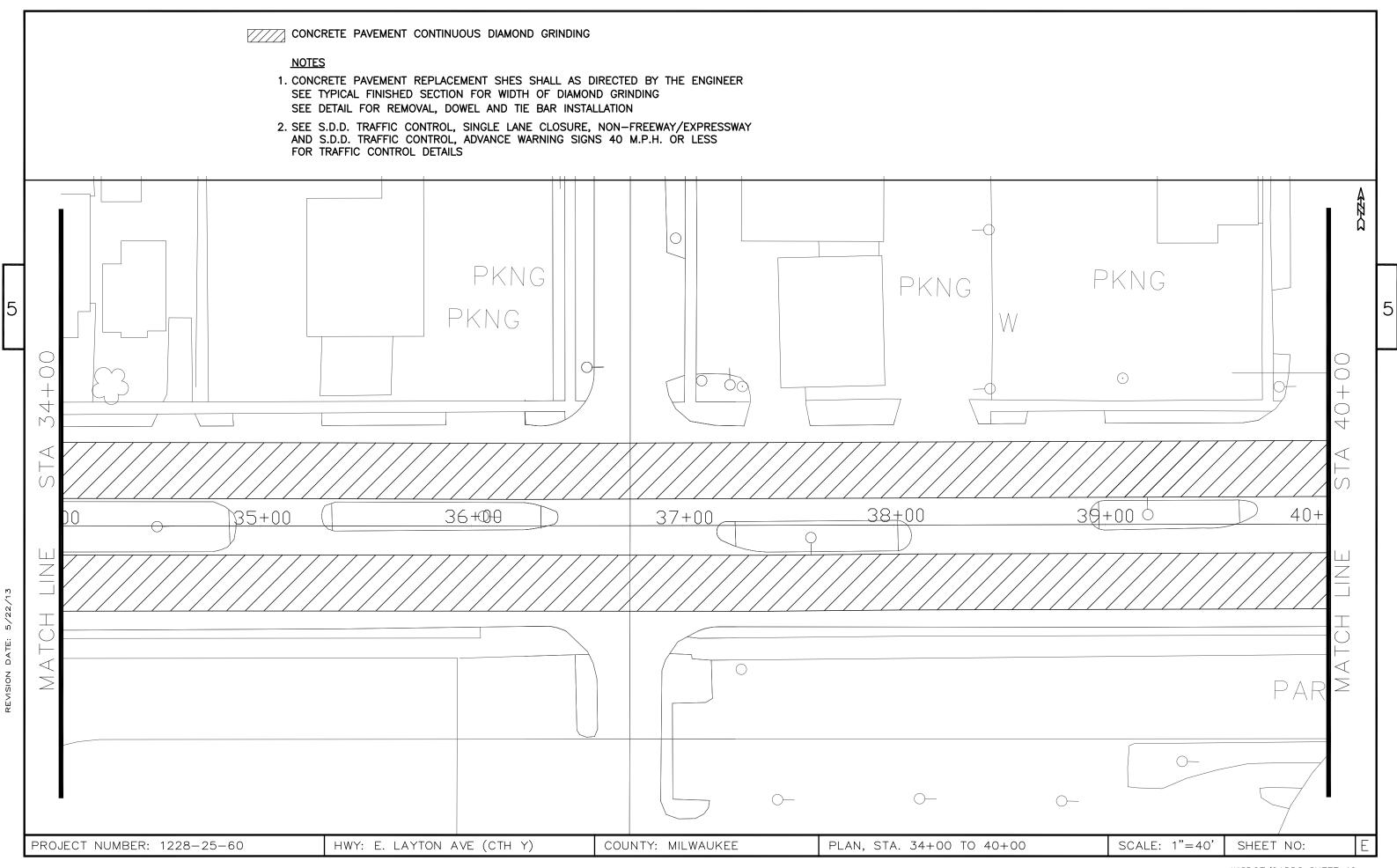
| | ITEM TOTAL | 1280 |
|---------------|------------|----------|
| UNDISTRIBUTED | | 1280 |
| LOCATION | | LF |
| | | CONCRETE |
| | | SAWING |
| | | 690.0250 |
| | | |

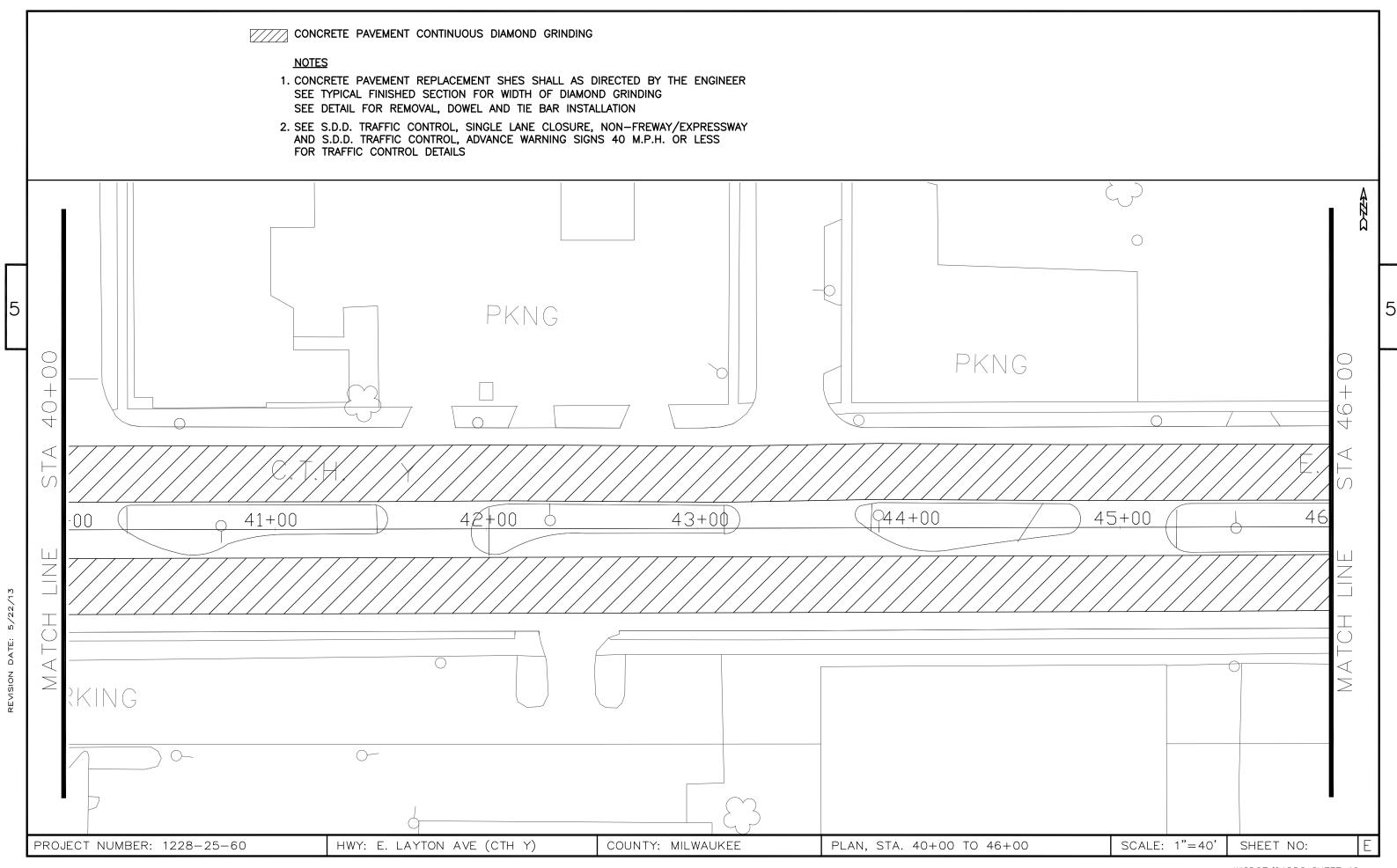
PROJECT NUMBER: 1228-25-60 HWY: E. LAYTON AVE. (CTH Y) COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SCALE: NONE SHEET NO: E

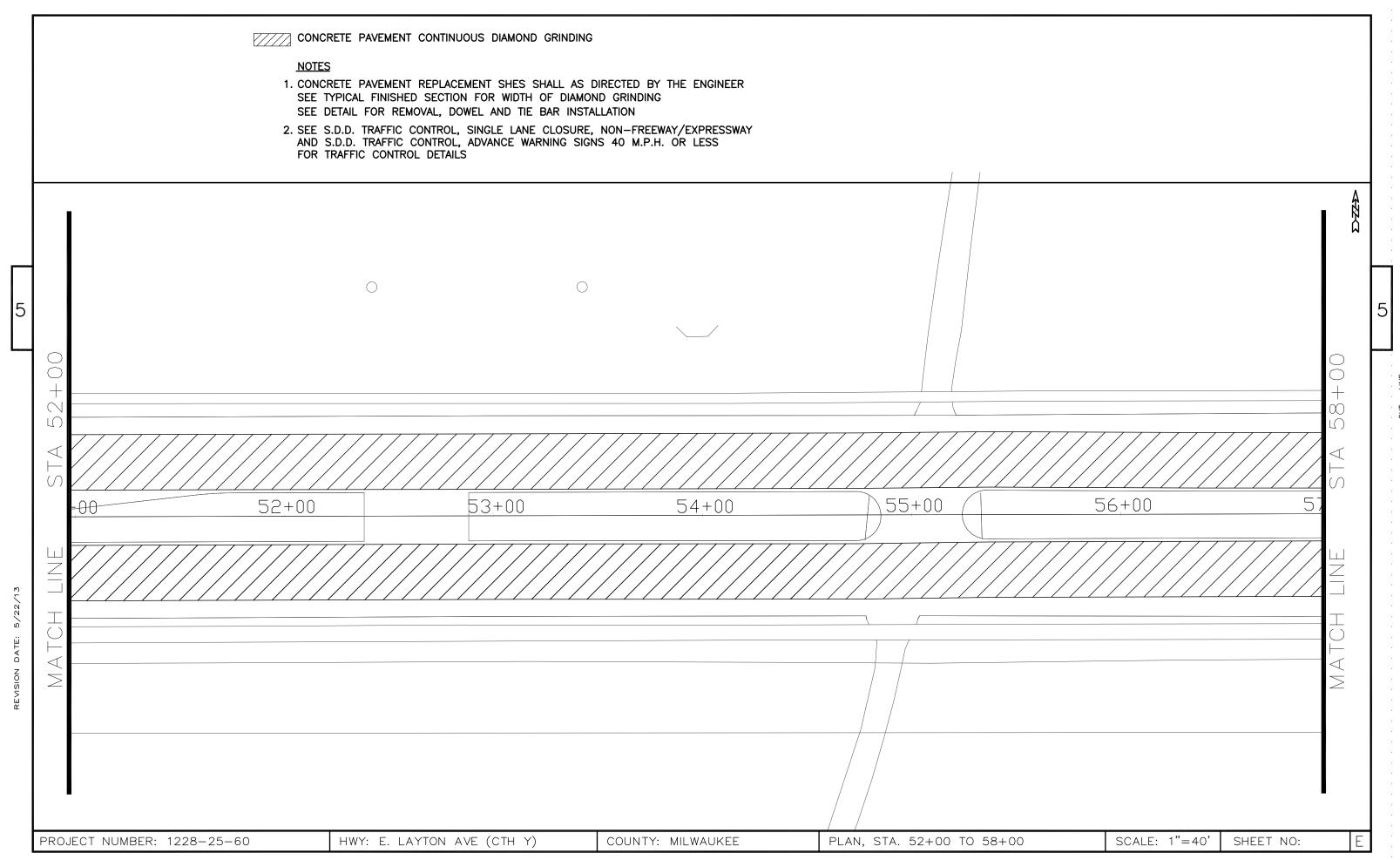


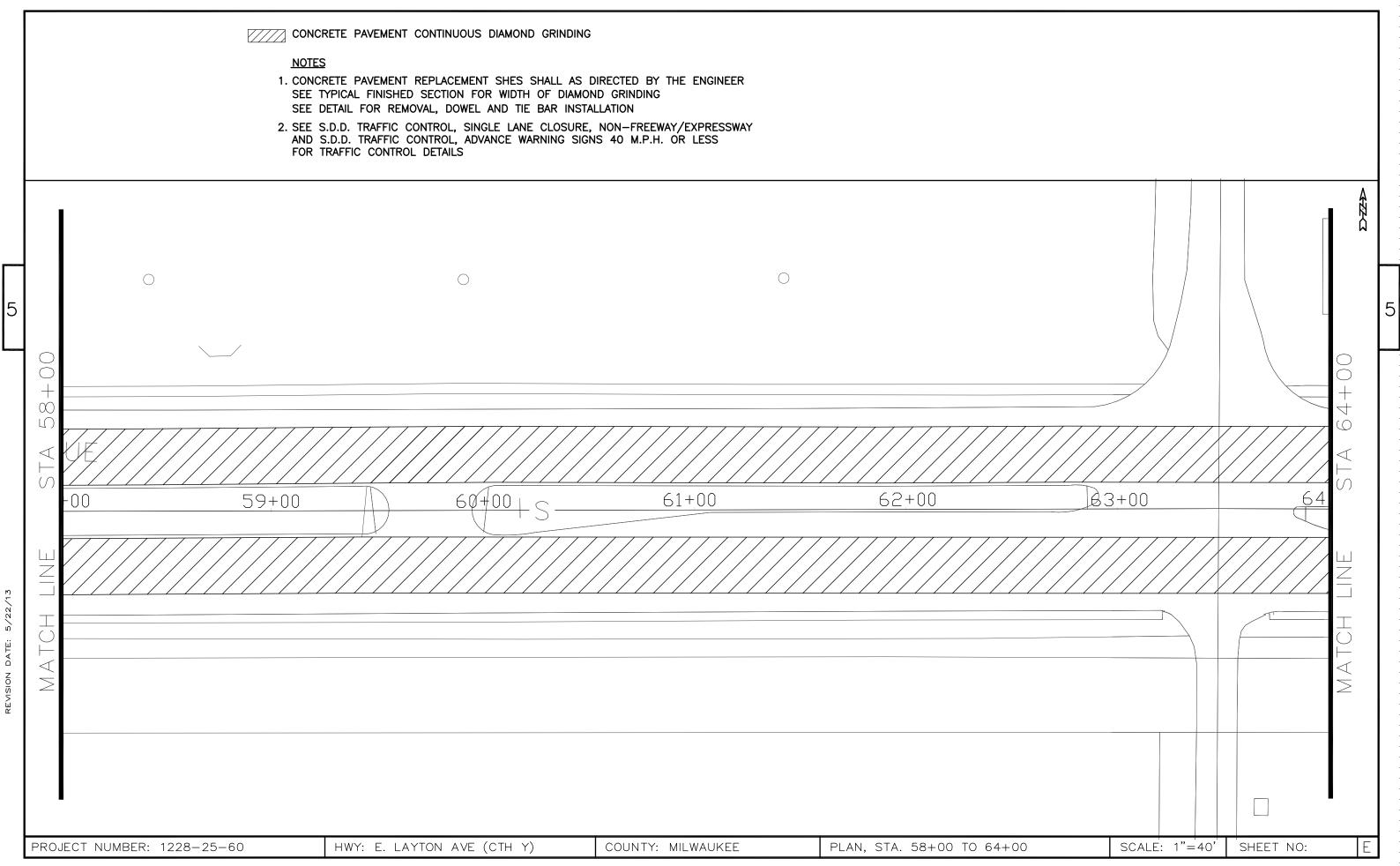


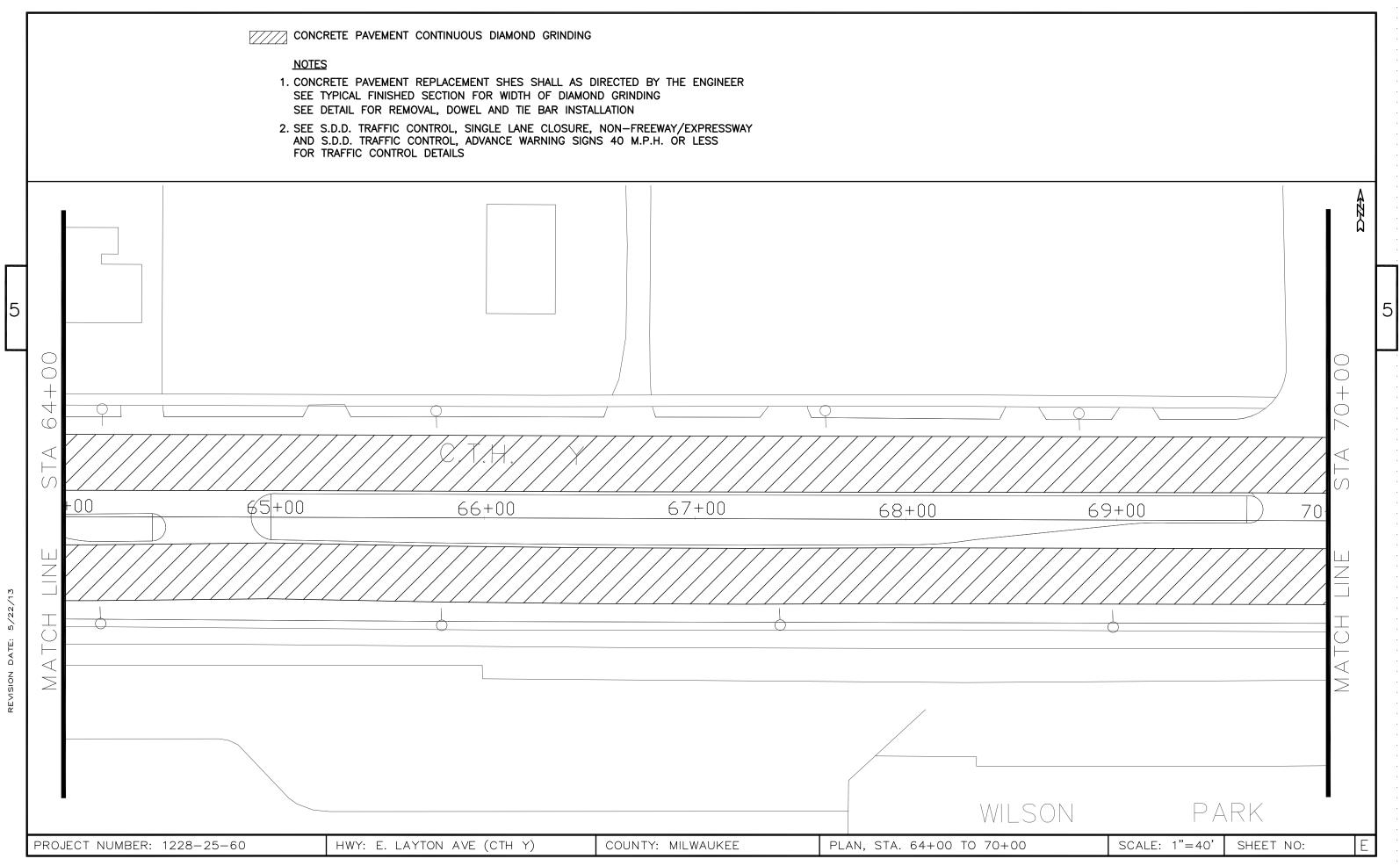


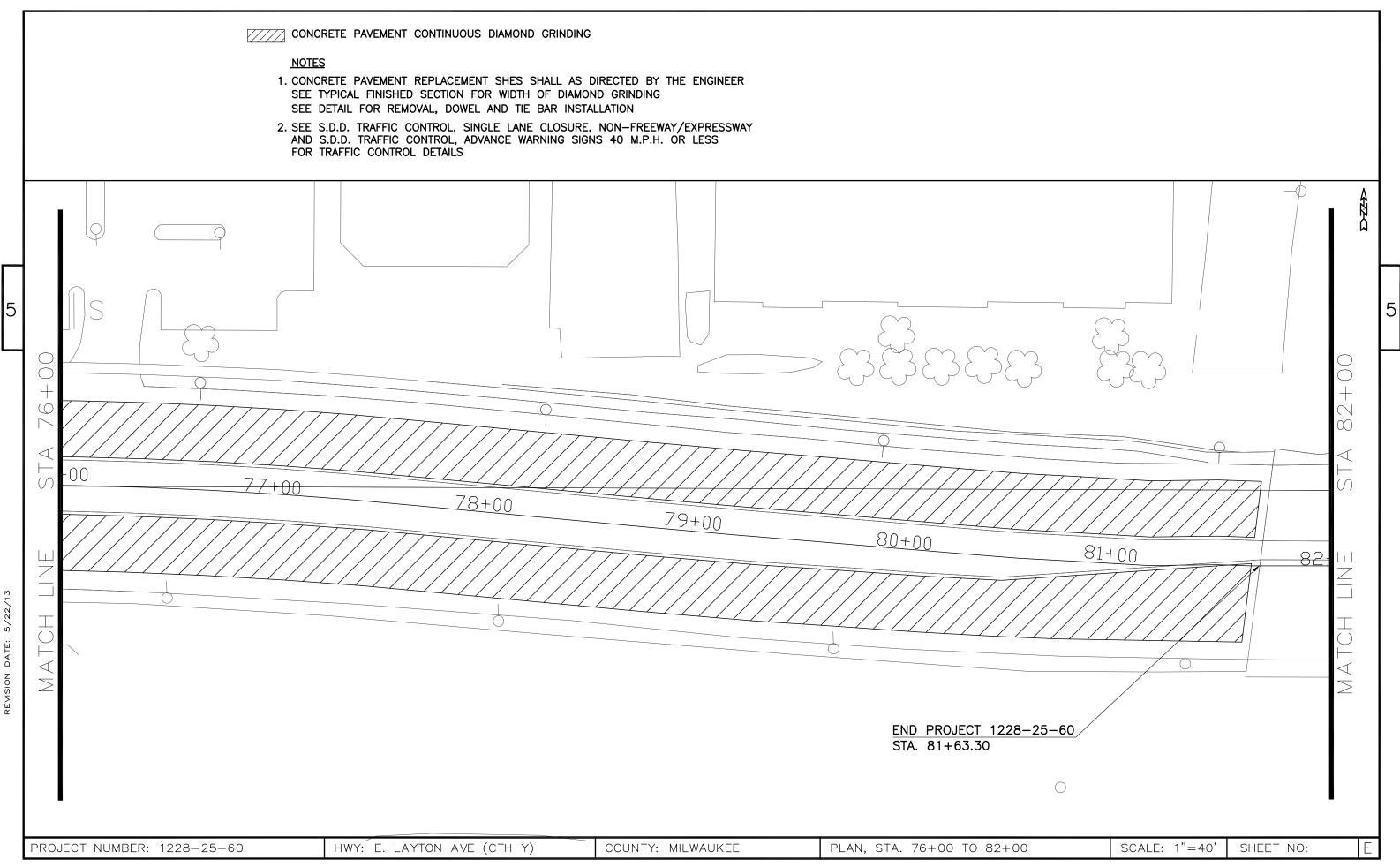












Standard Detail Drawing List

|)8E10-02 | INLET PROTECTION TYPE A, B, C AND D |
|-----------|--|
| 13C18-02A | CONCRETE PAVEMENT JOINTING |
| 13C18-02D | CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES |
| 15C05-01 | TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS |
| 15C08-16A | PAVEMENT MARKING (MAINLINE) |
| 15C08-16B | PAVEMENT MARKING (INTERSECTIONS) |
| 15C08-16E | PAVEMENT MARKING (LEFT TURN LANE) |
| 15C08-16F | PAVEMENT MARKING (ISLANDS) |
| 15D28-01 | TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY |
| | |

6

_





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

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 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 A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

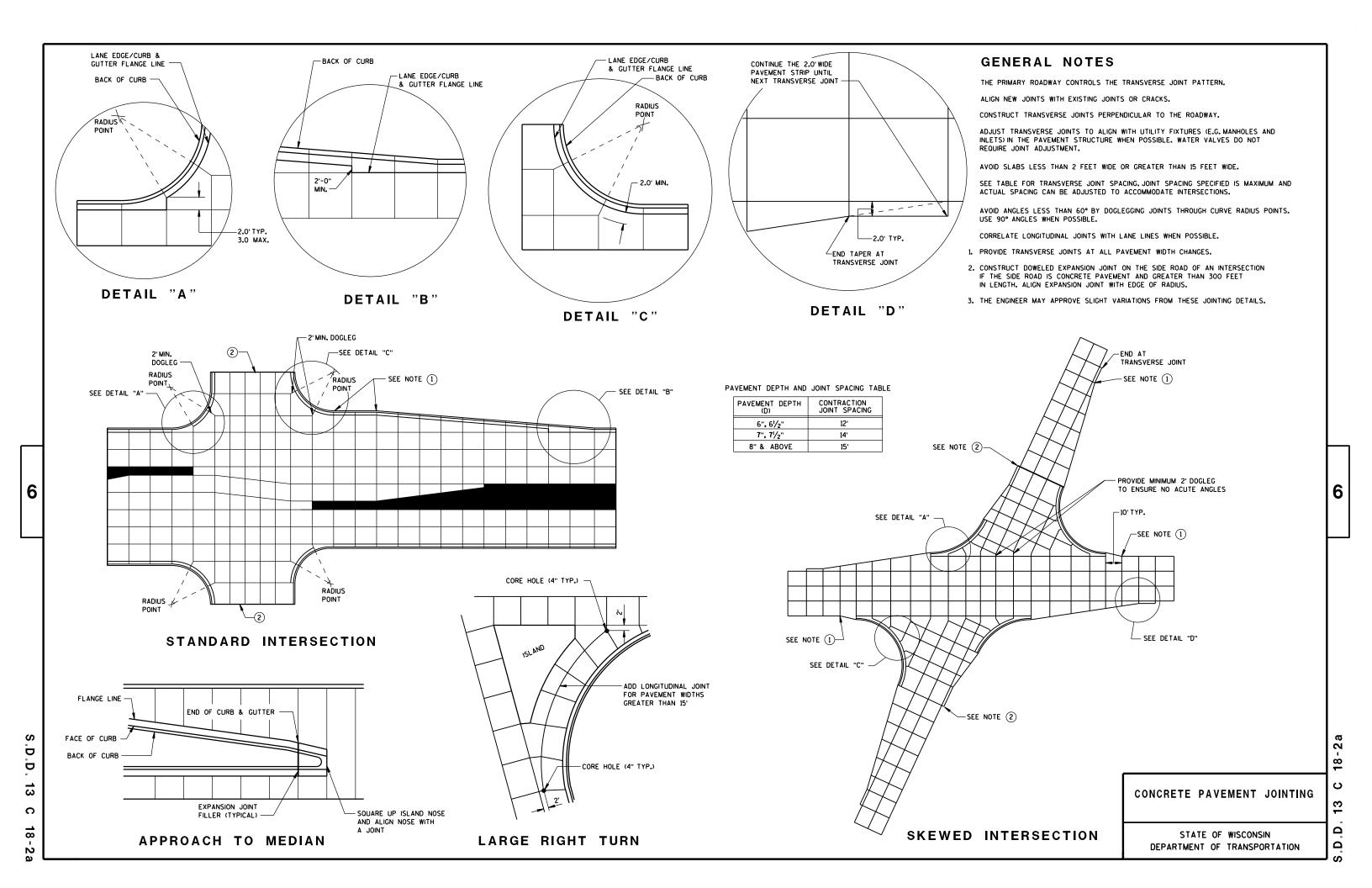
10/16/02

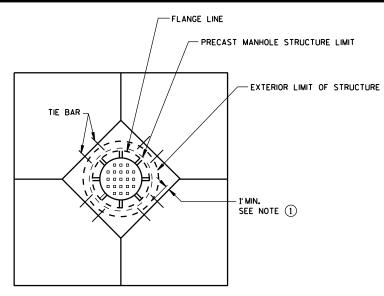
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

0

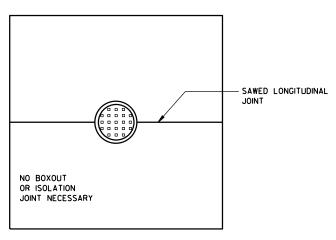
ш

 ∞

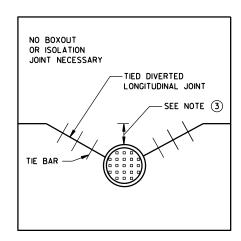




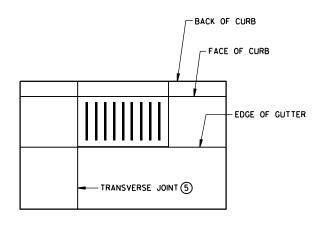
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



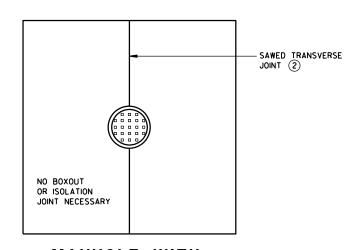
MANHOLE WITH LONGITUDINAL JOINT



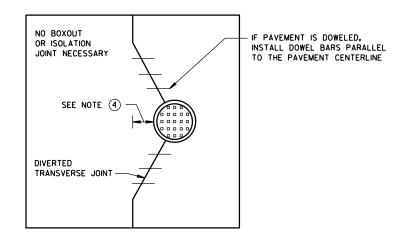
MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



INLET WITH TRANSVERSE JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

- ① USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2 ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT
JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-3-2013
DATE

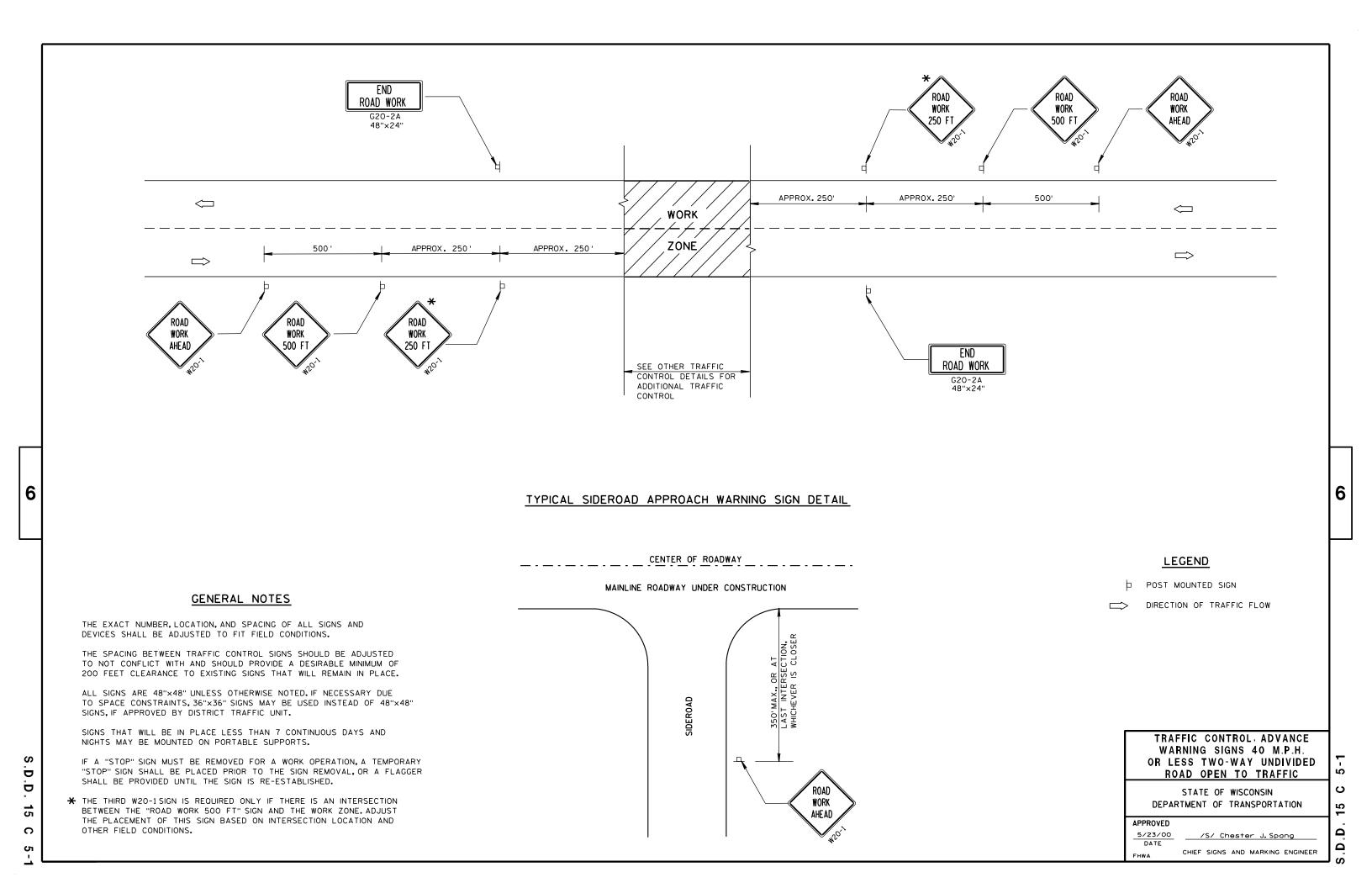
/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

، [

6

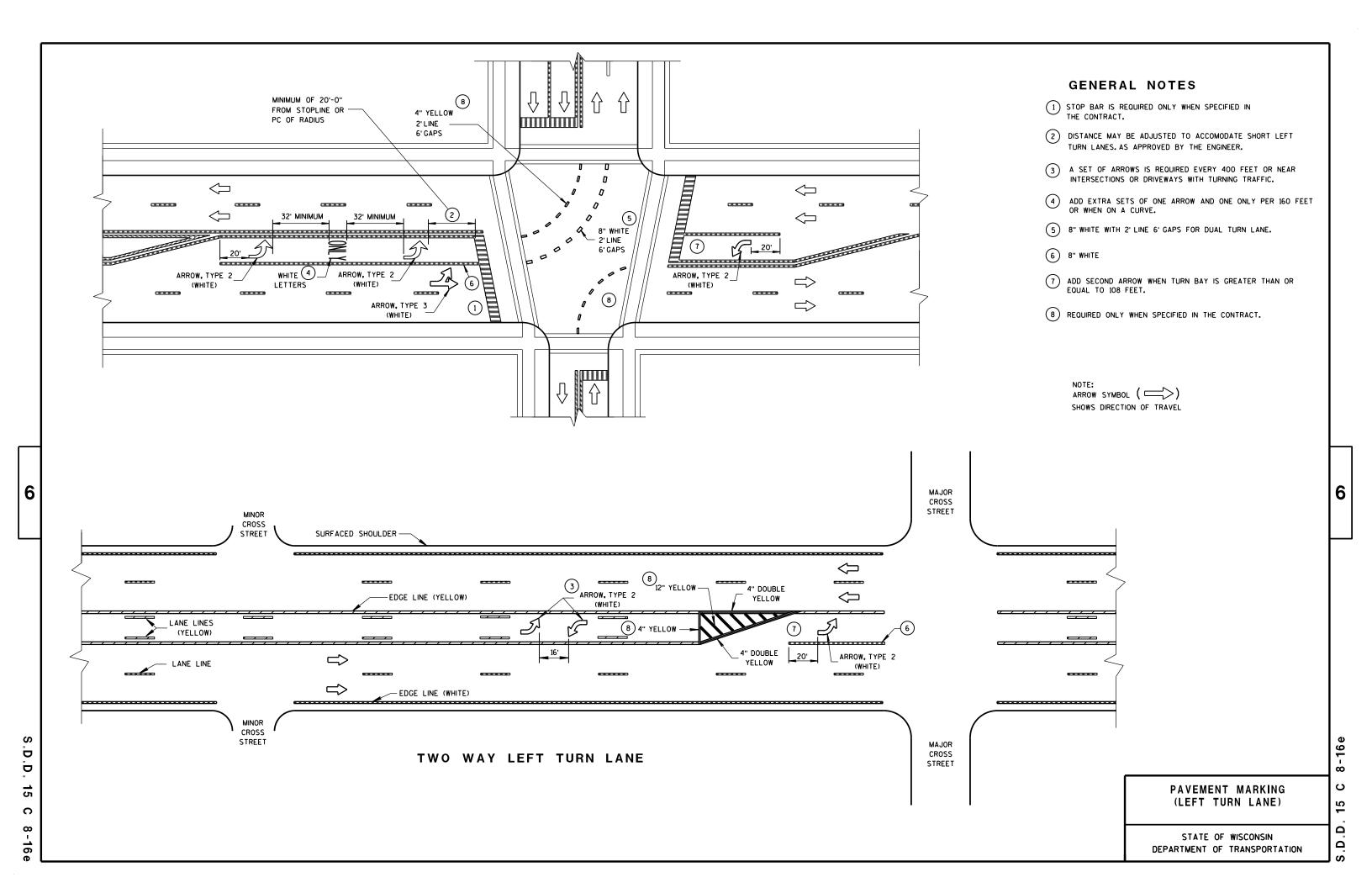
<u>∞</u>

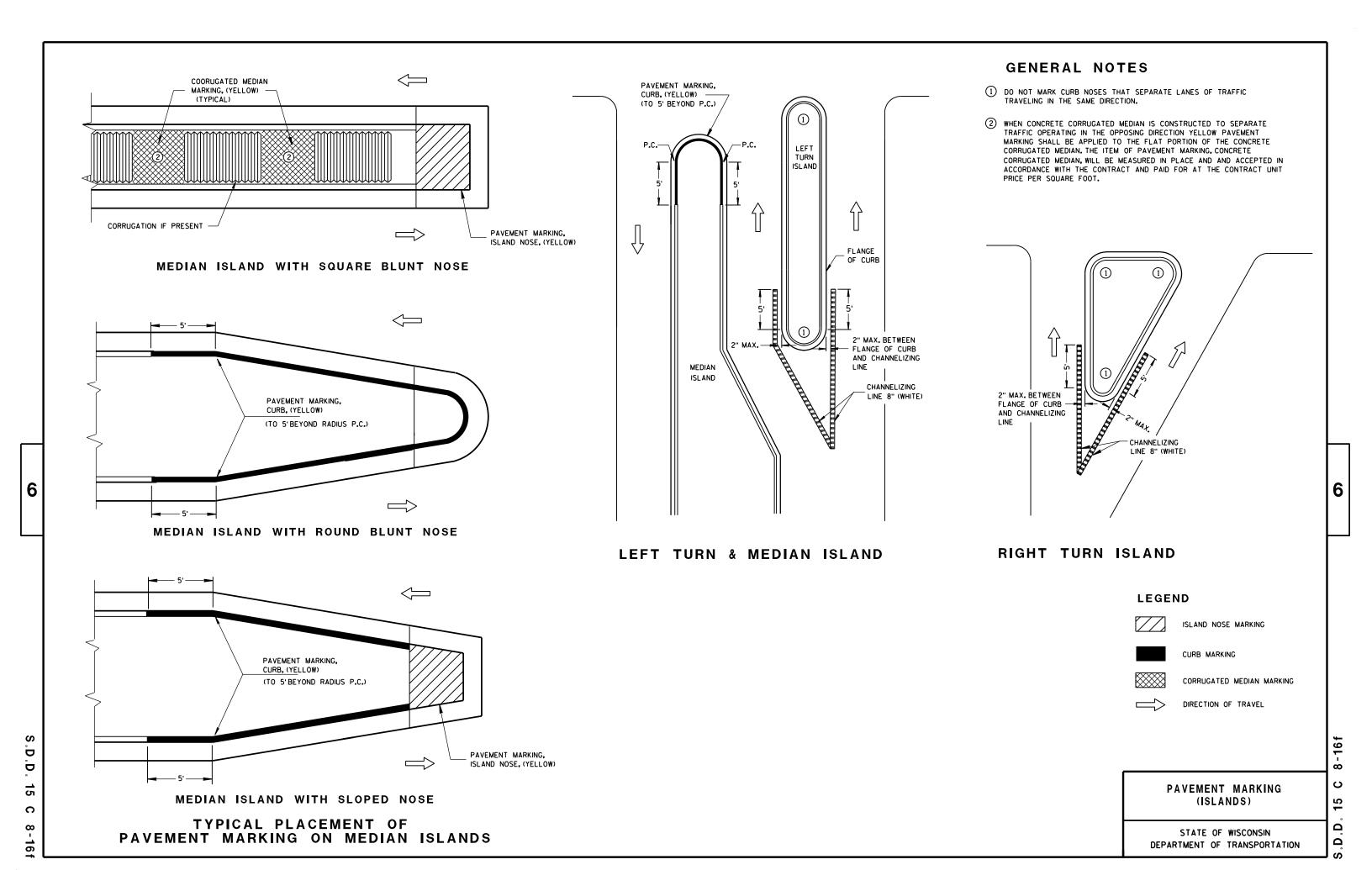
6

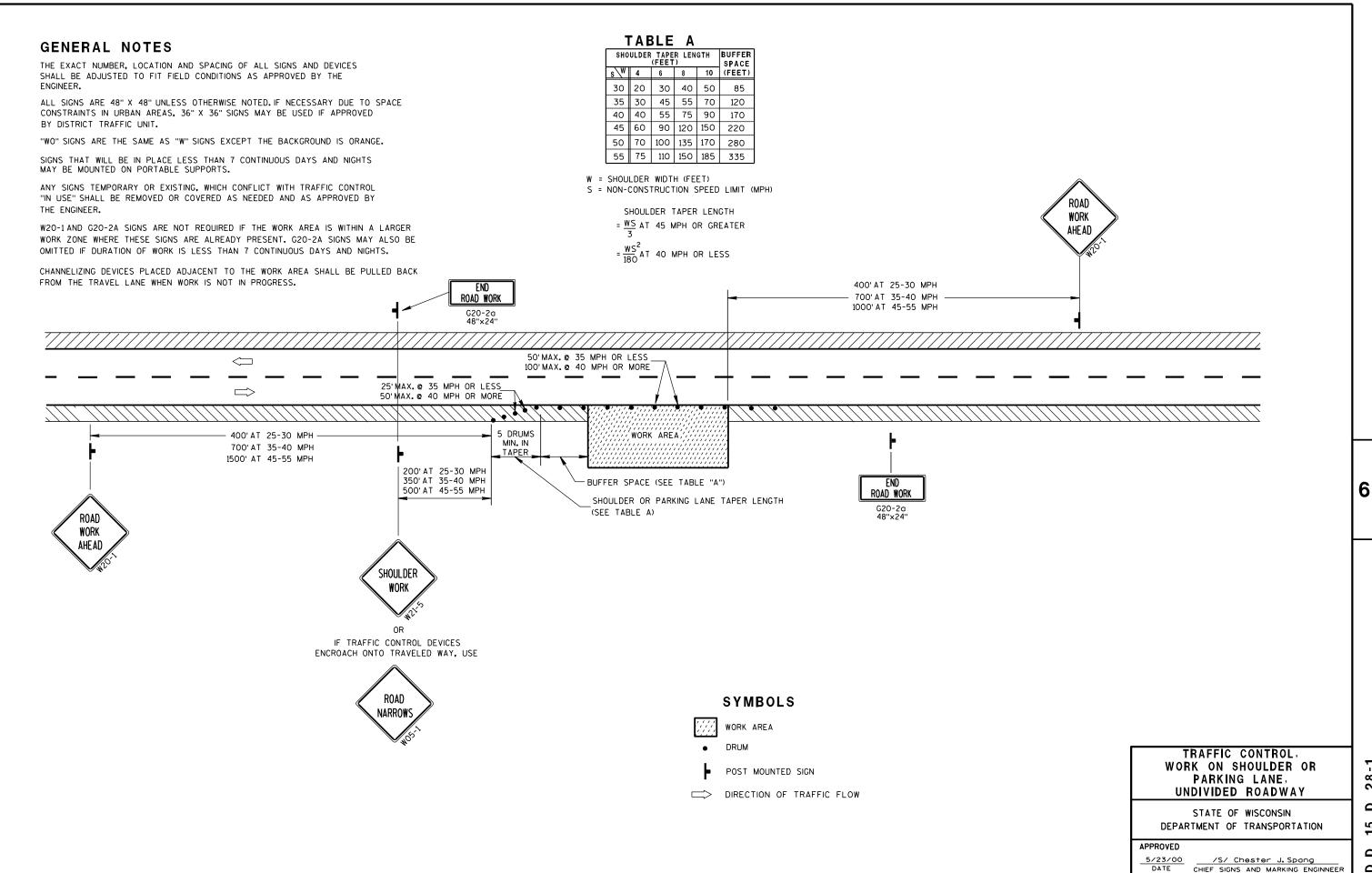












6

Ö

Ō

D

Ω S

N Ω



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov