JULY 2013

ORDER OF SHEETS

Section No. 1 Typical Sections and Details 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 Plotes

Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data Section No. 9 Cross Sections

TOTAL SHEETS = 78



DESIGN DESIGNATION

A.A.D.T. (2010) = 37,350 A.A.D.T. = N/A = N/A D.H.V. = N/A D.D. = 4% DESIGN SPEED = 45 MPH

CONVENTIONAL SYMBOLS

PROFILE PLAN GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LABEL SPECIAL DITCH LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC --455--EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT GAS (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE WATER MARSH AREA X UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE

ф

Ø

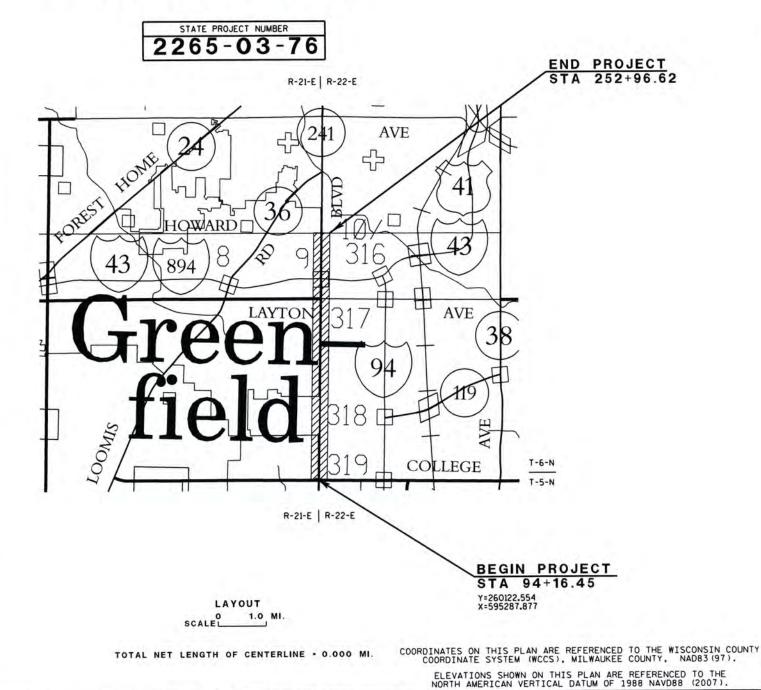
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SOUTH 27TH STREET

COLLEGE AVE TO HOWARD AVE (W SIDE) STH 241

MILWAUKEE COUNTY



ACCEPTED FOR

CITY , GREENFIELD

FEDERAL PROJECT

PROJECT

WISC 2013338

CONTRACT

STATE PROJECT

2265-03-76

ORIGINAL PLANS PREPARED BY

INGH + ASSOCIATES INC. FAX: (414) 727-0933



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY AYRES Surveyor SINGH Designer TOM LAZCANO Regional Supervisor C.O. Examiner

PPROVED FOR THE DEPARTMENT

UTILITY CONTACTS

CITY OF MILWAUKEE
SEWER, WATER & ELECTRICITY
MR. JEFFREY POLENSKE
ROOM 701
841 N BROADWAY
MILWAUKEE, WI 53202
(414) 286-2400
JPOLEN@MPW.NET

CITY OF GREENFIELD - SEWER
MR. RICHARD SOKOL
7325 W FOREST HOME AVE, RM 203
GREENFIELD, WI 53220
(414) 329-5325

MILWAUKEE COUNTY DEPARTMENT OF PUBLIC WORKS
ROAD FACILITY
MR. CHUCK SMELTZER
10190 W WATERTOWN PLANK RD
MILWAUKEE, WI 53226
(414)257-6580

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT - SEWER
MS. DEBRA JENSEN
260 W SEEBOTH ST
MILWAUKEE, WI 53204-1446
(414) 272-5100
DJENSEN@MMSD.COM

MIDWEST FIBER NETWORKS LLC - COMMUNICATION LINE MR. RICHARD TRGOVEC 3701 W BURNHAM ST, STE C MILWAUKEE, WI 53215 414-672-5612 RTRGOVEC@MIDWESTFIBERNETWORKS.COM

AT&T WISCONSIN - COMMUNICATION LINE MR. DEAN HERRO
435 S. 95TH STREET
MILWAUKEE, WI 53214
(262) 352-0131
DH2572@ATT.COM

TIME WARNER CABLE - COMMUNICATION LINE MR. LUKAS LACROSSE
1320 N DR MARTIN LUTHERN KING JR. DR
MILWAUKEE, WI 53212
(414) 430-9321
LUKAS.LACROSSE@TWCABLE.COM

WE ENERGIES - ELECTRICITY
MR. DAN SANDE
333 W EVERETT ST, A299
MILWAUKEE, WI 53203
(414) 221-4578
DAN,SANDE@WE-ENERGIES.COM

WE ENERGIE - GAS/PETROLEUM
MR. DENNIS SINJAKOVIC
5400 N GREEN BAY AVE
MILWAUKEE, WI 53209
(262) 391-4268
DENNIS.SINJAKOVIC@WE-ENERGIES.COM

ATC MANAGEMENT, INC. - ELECTRICITY
MR. MIKE OLSEN
801 O'KEEFE RD
P.O. BOX 6113
DE PERE, WI 54115-6113
(920) 338-6582
MOLSEN@ATCLLC.COM

TDS TELECOM - COMMUNICATION LINE MR. MICHAEL JOHNSON 20875 CROSSROADS CIRCLE, SUITE 800 WAUKESHA, WI 53186 (262) 754-3052 MICHAEL.JOHNSON@TDSTELECOM.COM

WISCONSIN DEPARTMENT OF TRANSPORTATION - COMMUNICATION LINE MR. DENNIS CAULEY 935 S. 60TH STREET WESTALLIS, WI 53214 (414) 750-1443 DENNIS.CAULEY@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION - COMMUNICATION LINE MR. JOHN HAUG
141 NW BARSTOW ST
P.O. BOX 798
WAUKESHA, WI 53187-0798
(262) 521-5356

OTHER CONTACTS

TOM LAZCANO, P.E. WISDOT SOUTHEAST REGION 141 NW BARSTOW ST. P.O. BOX 798 WAUKESHA, WI. 53187 (262) 574-5437 TOM.LAZCANO@DOT.WI.GOV

RICK SOKOL
CITY OF GREENFIELD
7325 W. FOREST HOME AVE.
GREENFIELD, WI. 53220-3356
RICK_S@CI.GREENFIELD.WI.US

MILWAUKEE COUNTY TRANSIT SYSTEM MR. DAVID ZIAREK (414) 343-1764 DZIAREK@MCTS.ORG

WDNR CONTACT

KRISTINA BETZOLD
2300 N. DR. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI. 53212
(414) 263-8517
KRISTINA.BETZOLD@WISCONSIN.GOV

DIGGERSAHOTLIN

Call 811 3 Work Days Before You Dig or Toll Free (800) 242-8511 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

PLOT SCALE: 10:1

PROJECT NO: 2265-03-76

HWY: STH 241

COUNTY: MILWAUKEE

GENERAL NOTES

PLOT BY : kprajapati

SHEET

<u>-</u> |

Χ

Υ

РΙ

GENERAL NOTES

ACCESS TO LOCAL RESIDENTS AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES.

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

DISTURBED AREAS SHALL BE FERTILIZED, SEEDED AND MULCHED, TOPSOIL, WHERE REQUIRED, SHALL BE PLACED TO A DEPTH OF 6 INCHES. DISTURBED AREAS SHALL HAVE FINISHING ITEMS APPLIED WITHIN 10 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

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.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. NO WORK MAY BEGIN UNTIL PROPER TRAFFIC CONTROL DEVICES ARE PLACED AND APPROVED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED PER SITE CONDITIONS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NEEDED.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPALITY OR PUBLIC AGENCY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

A SAWED JOINT IS REQUIRED WHERE NEW PAVEMENT OR SIDEWALK MEETS EXISTING PAVEMENT OR SIDEWALK.

IN AREAS WHERE CONCRETE SIDEWALK OR CURB AND GUTTER ARE REMOVED AND REPLACED, CONTRACTOR SHALL PLACE 6-INCHES OF BASE AGGREGATE DENSE GRADED 3/4-INCH FOR CURB AND GUTTER AND 4-INCHES BASE AGGREGATE DENSE GADED 3/4-INCH FOR CONCRETE SIDEWALKS

THE CONTRACTOR SHALL CONTACT DENNIS CAULEY, (414) 266-1162 / (414) 750-1443 WISDOT FIELD ELECTRICAL UNIT FOR ACCESS TO WISDOT SIGNAL/ LIGHTING CABINETS AND FOR COORDINATION OF LIGHT UNIT BEING RETURNED TO THE DEPARTMENT AND DURING WORK INVOLVING WISDOT ELECTRICAL SYSTEMS.

THE CONTRACTOR SHALL COORDINATE WITH MILWAUKEE COUNTY TRANSIT SYSTEM FOR THE LOCATION/LAYOUT OF THE PROPOSED BUS SHELTER AND WORK AROUND THE FACILITIES.

AC ACRE AGG AGGREGATE AADT ANNUAL AVERAGE DAILY TRAFFIC AVG AVERAGE ВМ BENCH MARK СВ CATCH BASIN CL CENTER LINE CENTER TO CENTER CC CE COMMERCIAL ENTRANCE CONC CONCRETE CO COUNTY CTHCOUNTY TRUNK HIGHWAY CR CRUSHED CABC CRUSHED AGGREGATE BASE COURSE CYCUBIC YARD **CPRC** CULVERT PIPE REINFORCED CONCRETE C&G CURB AND GUTTER DHV DESIGN HOUR VOLUME DIA DIAMETER DWY DRIVEWAY EAST COORDINATE EΒ EASTBOUND EL ELEVATION ELEV ELEVATION ESALS EQUIVALENT SINGLE AXLE LOADS **EXIST** EXISTING FΕ FIELD ENTRANCE FG FINISHED GRADE FΤ FOOT INL INLET INV INVERT LEFT LT МН MANHOLE ML MATCH LINE NORTH GRID COORDINATE NB NORTHBOUND PAVT PAVEMENT PC POINT OF CURVATURE POINT OF INTERSECTION РΤ POINT OF TANGENCY PORTLAND CEMENT CONCRETE PCC PΕ PRIVATE ENTRANCE RADIUS REQD REQUIRED RT RIGHT R/W RIGHT OF WAY RD ROAD RDWY ROADWAY SHLDR SHOULDER SW SIDEWALK SB SOUTHBOUND **SPECS** SPECIFICATIONS SQ SQUARE SF SQUARE FOOT SY SQUARE YARD STD STANDARD SDD STANDARD DETAIL DRAWINGS STA STATION TEMP TEMPORARY TOP OF CURB TC TRANSITION TRANS TYP TYPICAL USH UNITED STATES HIGHWAY VAR VARIABLE WB WESTBOUND ΥD YARD

PROJECT NO: 2265-03-76

HWY: STH 241

COUNTY: MILWAUKEE

GENERAL NOTES

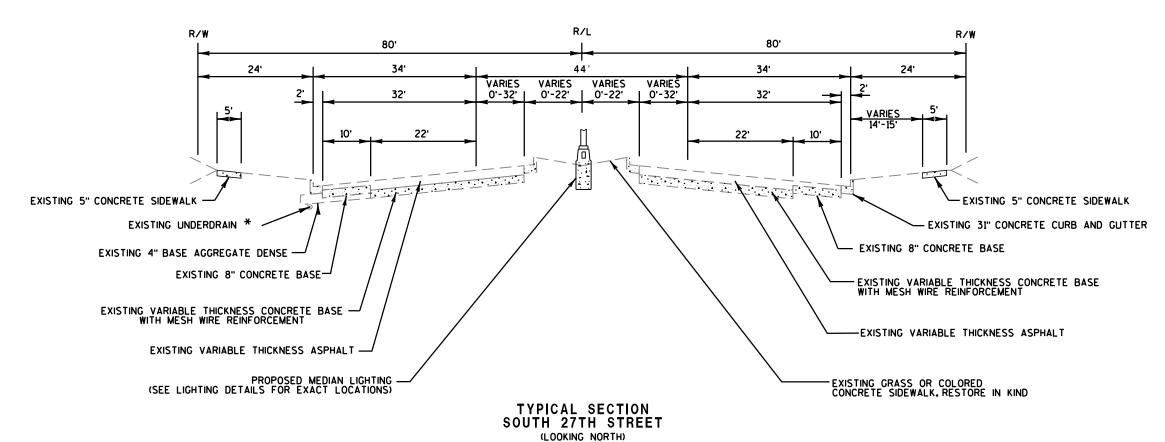
PLOT BY : kprajapati

SHEET

PLOT SCALE: 10:1

CITY OF GREENFIELD

(CITY OF MILWAUKEE STA 119+18 TO STA 148+16) CITY OF MILWAUKEE



* UNDERDRAIN ONLY WITHIN CITY OF GREENFIELD

STA 98+46 - 117+80 STA 122+14 - 129+79 STA 137+16 - 142+52 STA 150+95 - 169+49 STA 177+98 - 197+71 STA 219+26 - 222+43 STA 230+40 - 249+97

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE TYPICAL SECTIONS SHEET E

FILE NAME: J:\318\DGN\CADD Sheets\020301_ts.dgn

PLOT DATE: 19-APR-2013 16:07

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 200:1

WISDOT/CADDS SHEET 42

2

2

GENERAL NOTES:

FREEWAY LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTIONS 652 TO 657 AND 659 EXCEPT:

- 1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
- 2. LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.
- 3. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION ON THE CONDUIT.
- 4. ALL OPEN AND UN-TERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION.
- 5. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.
- 6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.
- 7. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.
- 8. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.
- 9. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.
- 10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (.PDF FORMAT) FOR ALL THE WORK BEING DONE.
- 11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.
- 12. UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.
- 13. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:
 PULL BOXES: 3-FT
 EMBEDDED JUNCTION BOXES: 3-FT
 DISTRIBUTION CENTER/LOAD CENTER: 10-FT

POLES 5-FT IN AND 5-FT OUT

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE LIGHTING PLAN - DETAIL SHEET E

FILE NAME: J:\318\DGN\CADD Sheets\023501_lp.dgn

PLOT DATE: 19-APR-2013 16:07

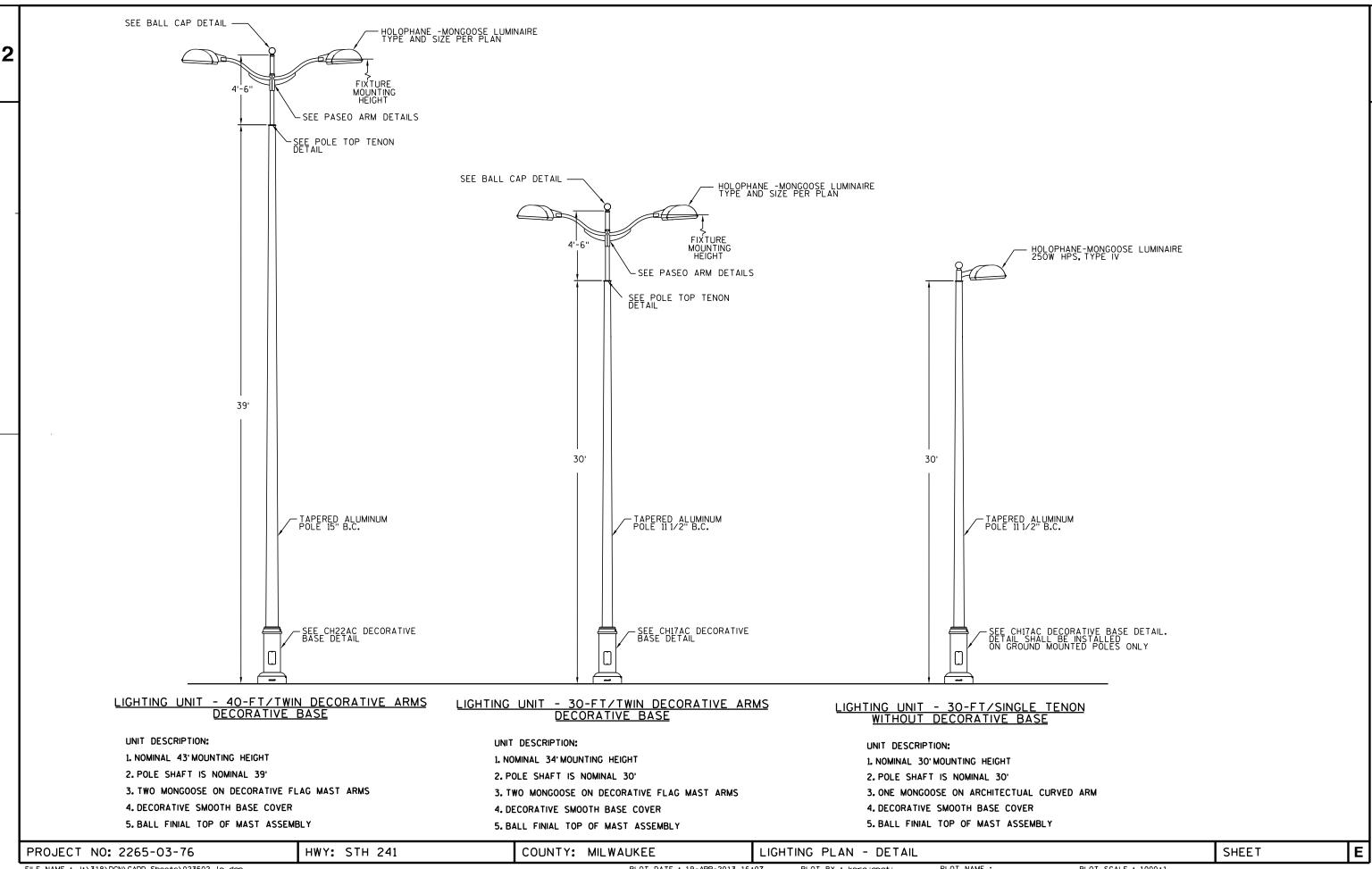
PLOT BY: kprajapati

PLOT NAME:

PLOT NAME:

PLOT SCALE: 1000:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023502_lp.dgn

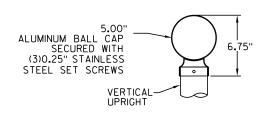
PLOT DATE: 19-APR-2013 16:07

PLOT BY: kprajapati

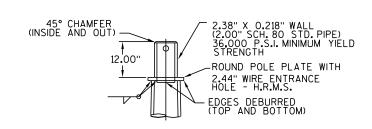
PLOT NAME:

PLOT SCALE: 1000:1

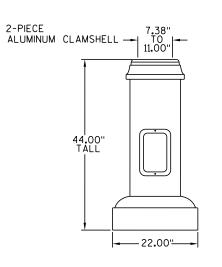
WISDOT/CADDS SHEET 41



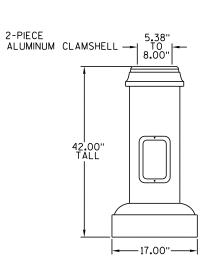




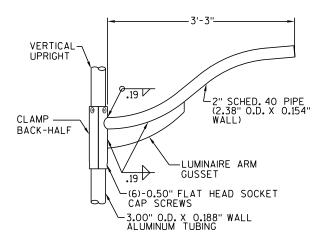
POLE TOP TENON



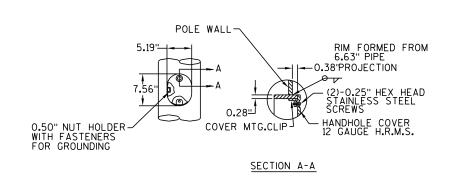
CH22AC DECORATIVE BASE



CH17AC DECORATIVE BASE



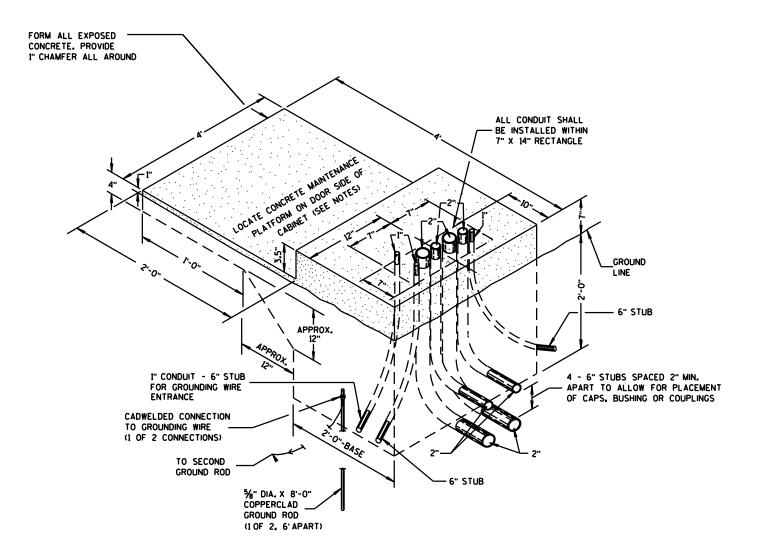
PASEO ARM DETAIL



4" X 6.5" BASE HANDHOLE

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE LIGHTING PLAN - DETAIL SHEET **E**

WISDOT/CADDS SHEET X



ISOMETRIC VIEW

CITY OF GREENFIELD CONCRETE CONTROL CABINET BASES

GENERAL NOTES

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

INSTALL FOUR $^1\!/_2$ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO THE BASES. THE ANCHOR BOLTS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

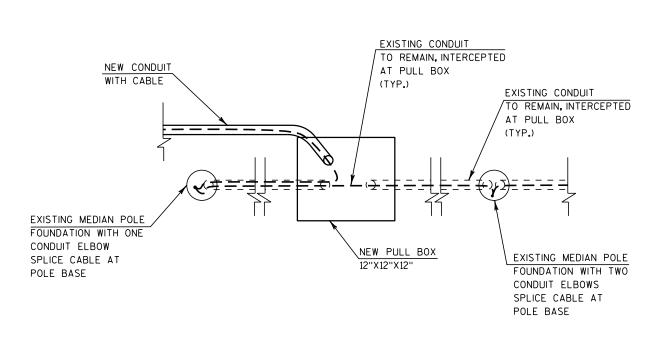
ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

ALL CONDUITS SHALL BE NON-METALLIC SCHEDULE 40.

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE LIGHTING PLAN - DETAIL SHEET E



TYPICAL CONDUIT TRANSITION DETAILS

NOTES:

- 1. PULL BOX SHALL GRAY COLOR, HAVE FLARED WALL BOX WITH NO BASE
- 2. PLUG OR CAP FITTINGS ON ALL UNUSED CONDUITS IN PULL BOX

CURB 6" (TYP.)—— WEARING SURFACE--RIGID PVC CONDUIT RIGID PVC CONDUIT CROSSING (WHEN REQUIRED SEE DETAIL 102 FOR ADDITIONAL INFO.) TOP OF CONDUIT SHOULD EXTEND UP 2 INCHES MAX. FROM BOTTOM OF VAULT. PREPARE THE EXCAVATION APPROXIMATELY 4 TO 5 INCHES DEEPER THAN THE DEPTH OF THE BOX, THEN ADD 4 TO 5 INCHES OF NO.2 COARSE AGGREGATE FILL FOR DRAINAGE. W/ STREETLIGHTING LOGO & W / 2 BOLTS COLOR: GRAY

PULL BOXES POLYMER CONCRETE - 12"X12"X12"

PROJECT NO:2265-03-76 HWY:STH 241 COUNTY:MILWAUKEE LIGHTING PLAN - DETAIL SHEET **E**

FILE NAME: J:\318\DGN\CADD Sheets\023505_Ip.dgn

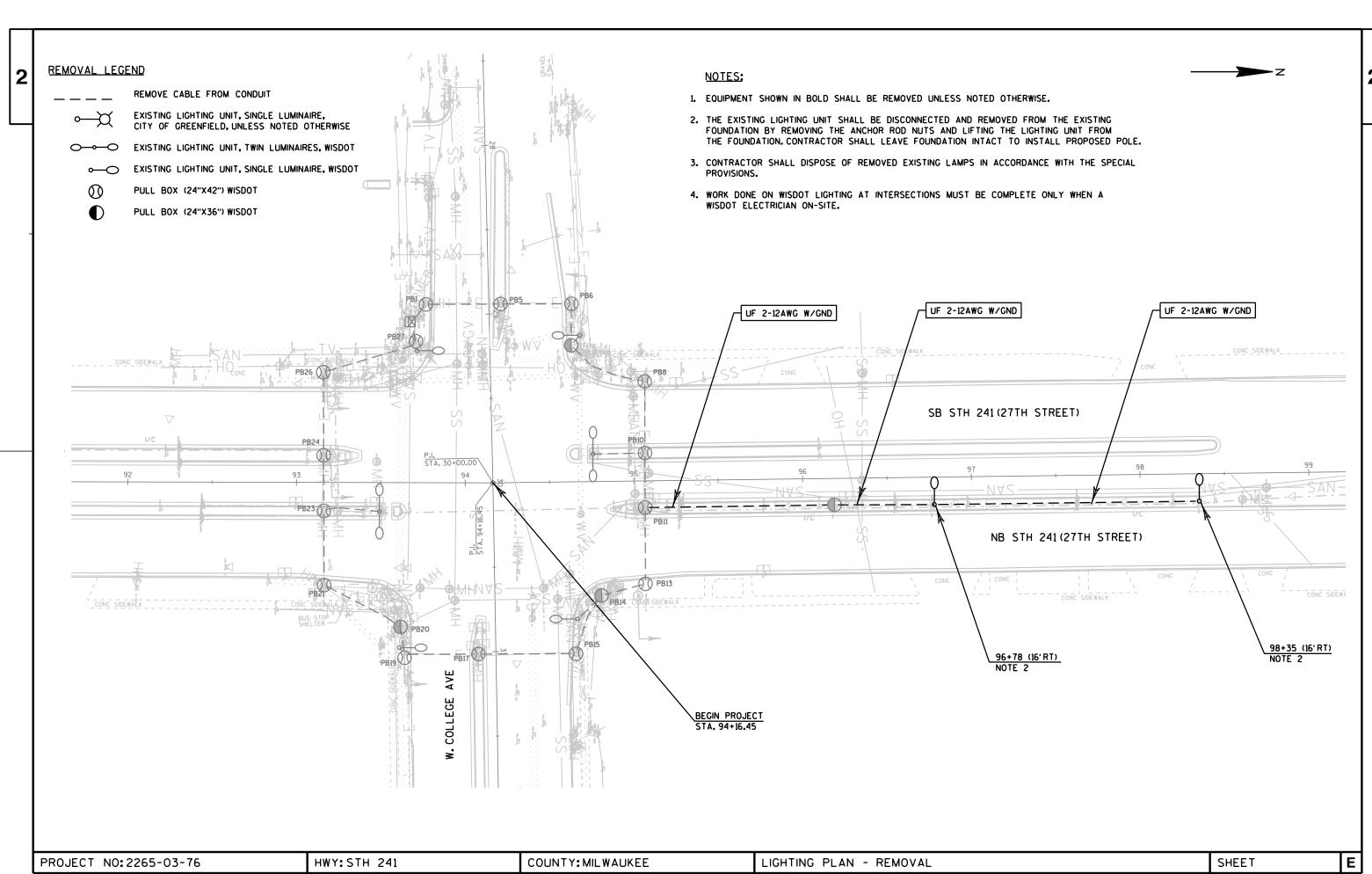
PLOT DATE: 19-APR-2013 16:07

PLOT BY: kprajapati

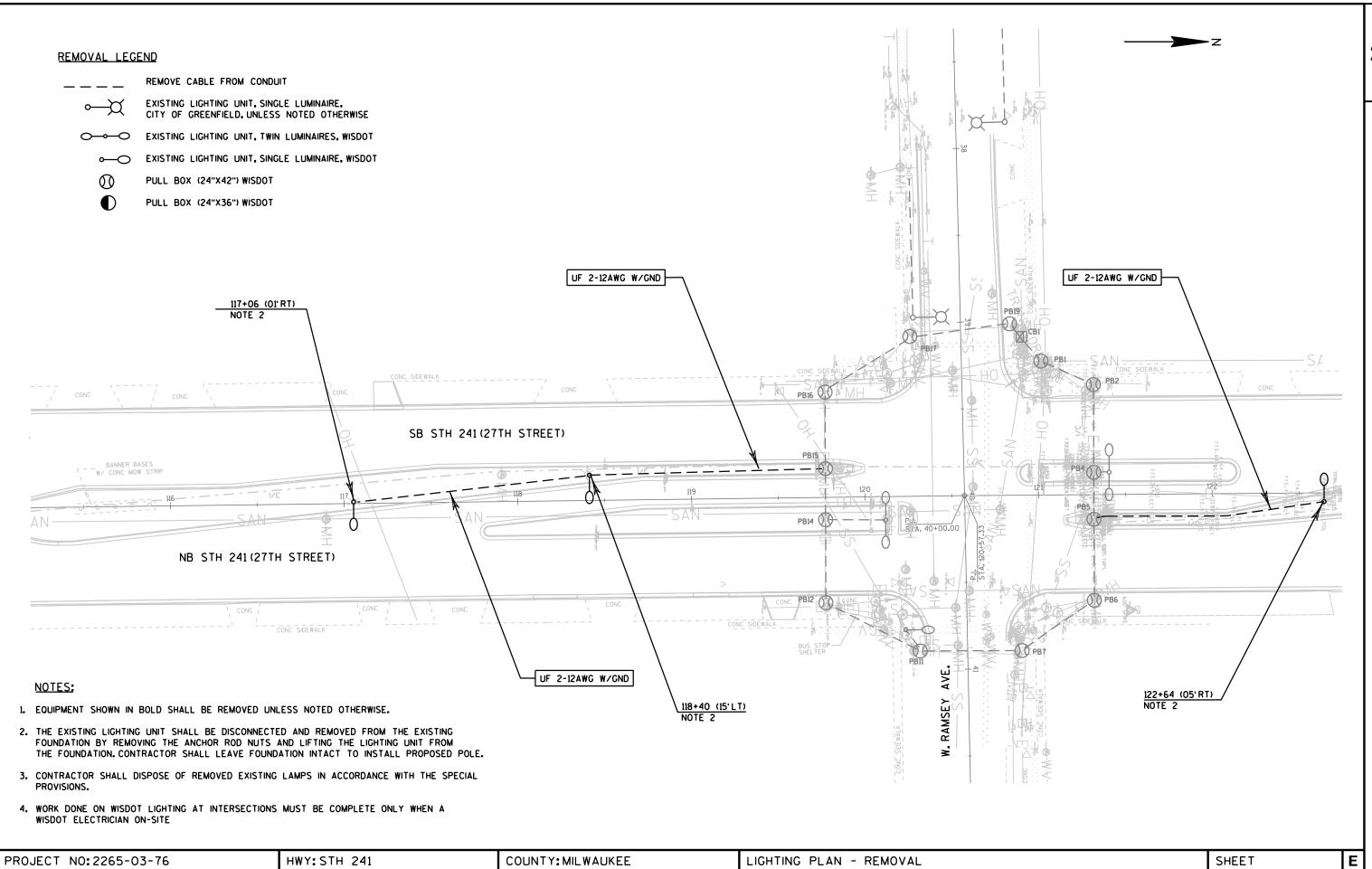
PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



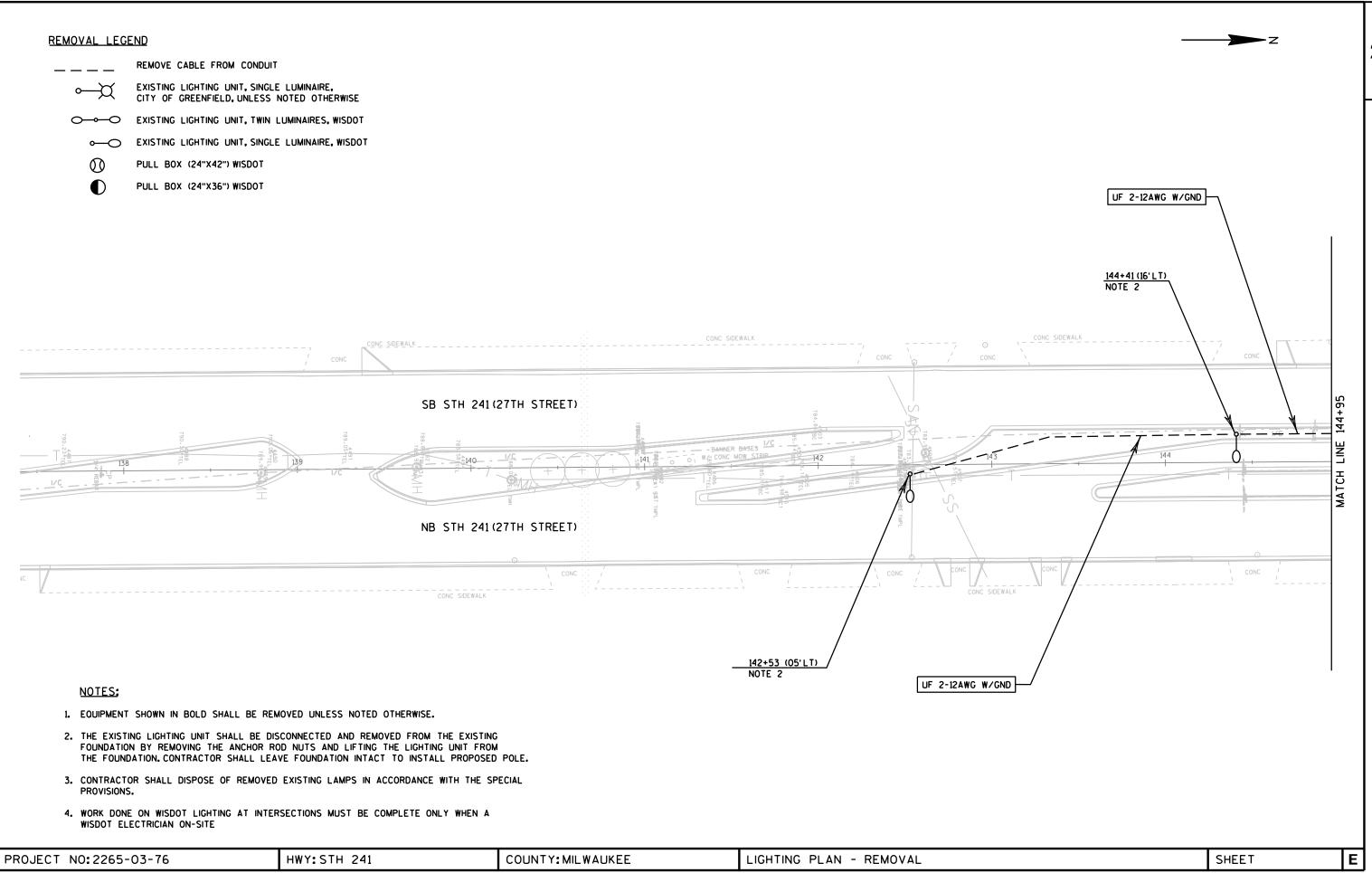
FILE NAME: J:\318\DGN\CADD Sheets\023551_lp.dgn
PLOT DATE: 19-APR-2013 16:07 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1 WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023552.lp.dgn

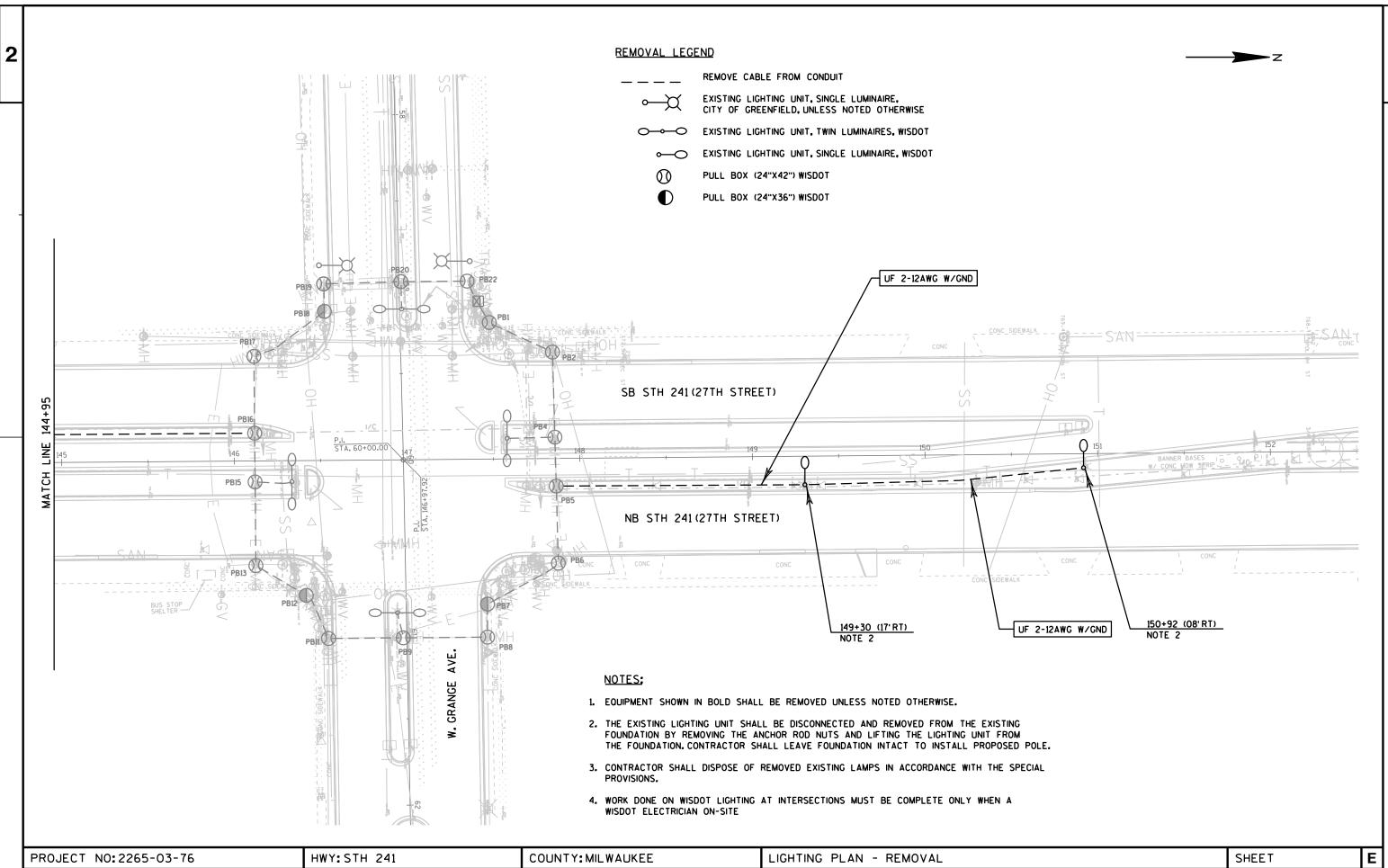
PLOT DATE: 19-APR-2013 16:08 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023553_lp.dgn

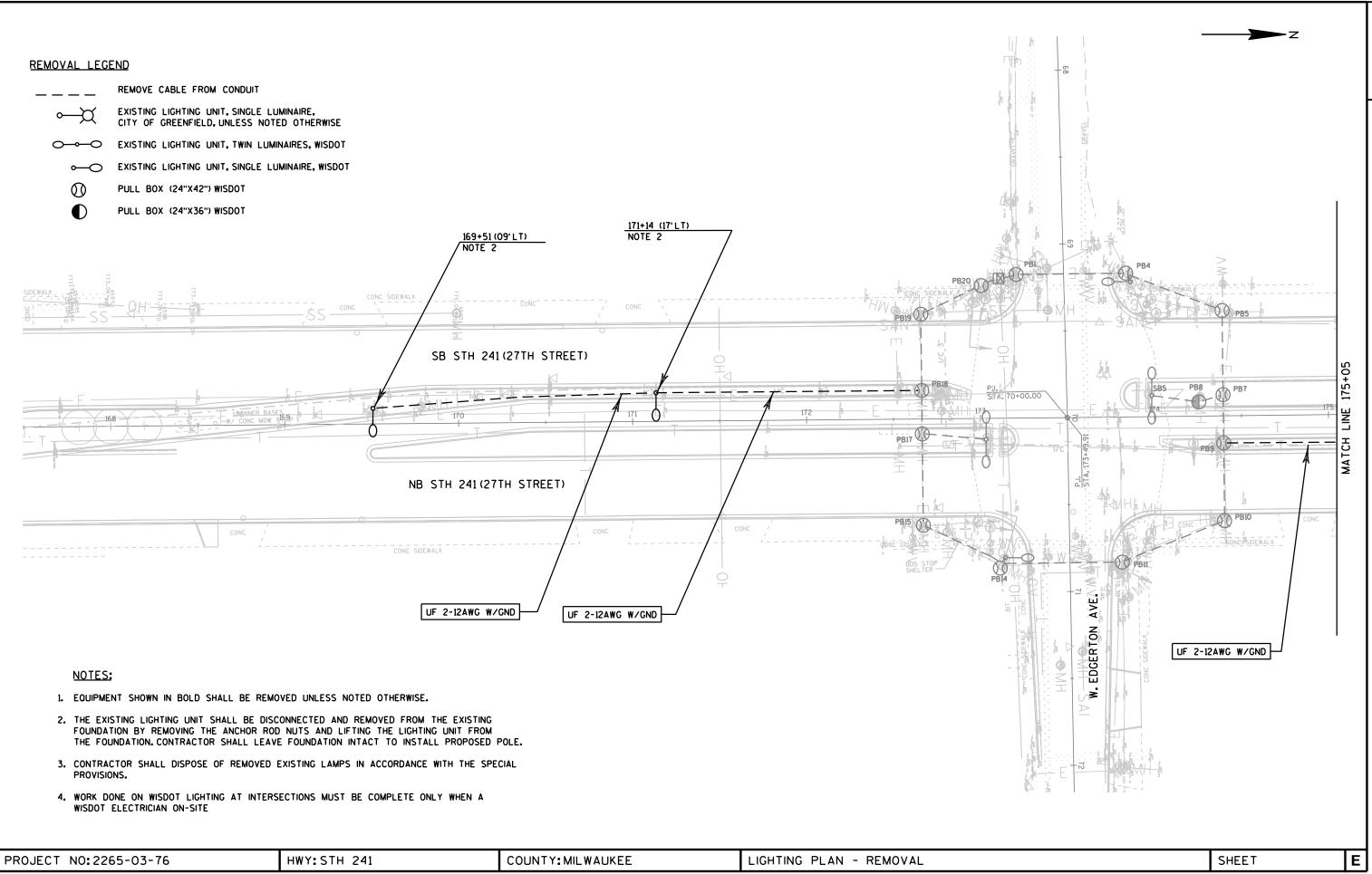
PLOT DATE: 19-APR-2013 16:08 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1 WISDOT/CADDS SHEET 42



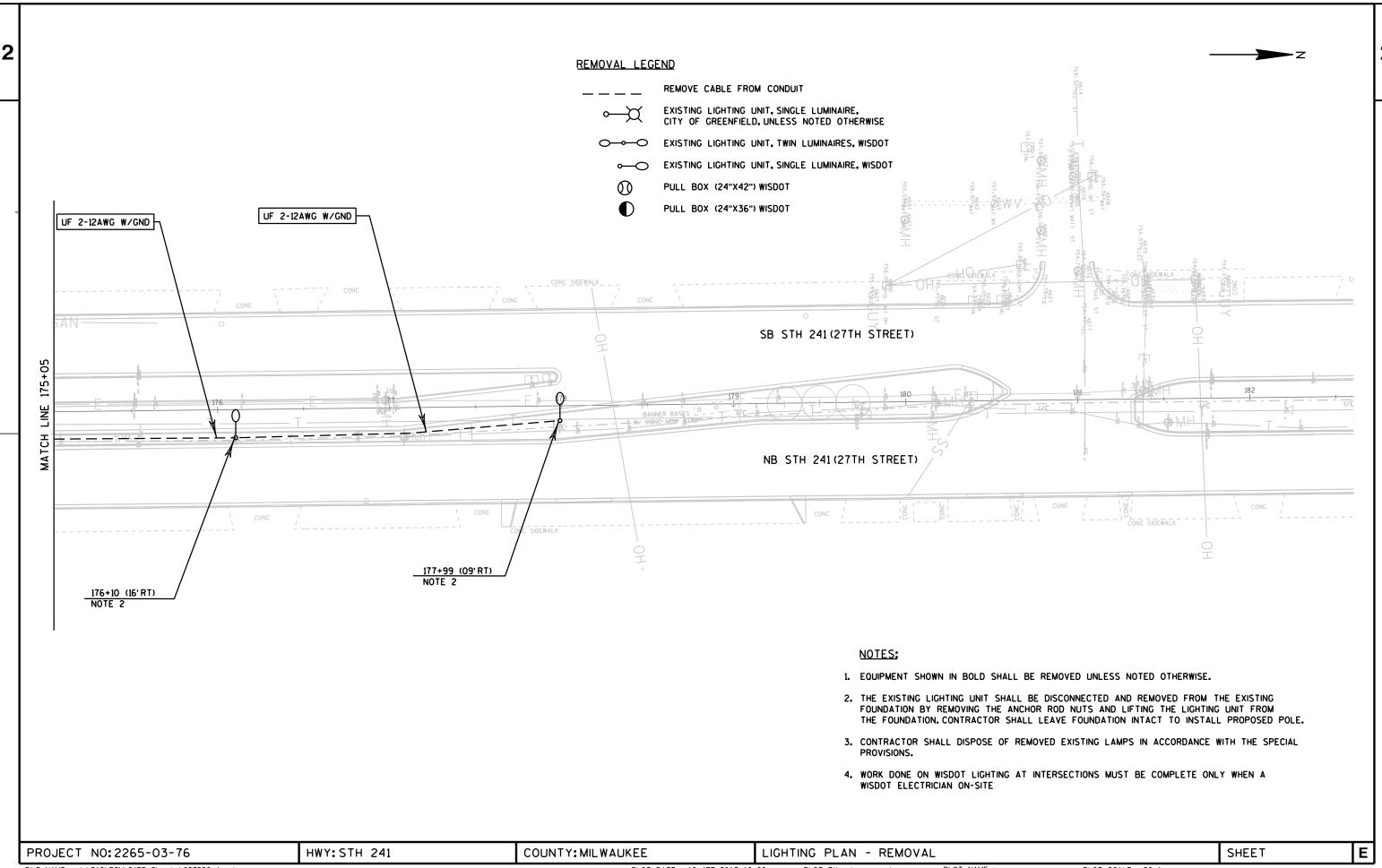
FILE NAME : J:\318\DGN\CADD Sheets\023554_ip.dgn

PLOT DATE : 19-APR-2013 16:08 PLOT NAME : PLOT NAME : PLOT SCALE : 50:1

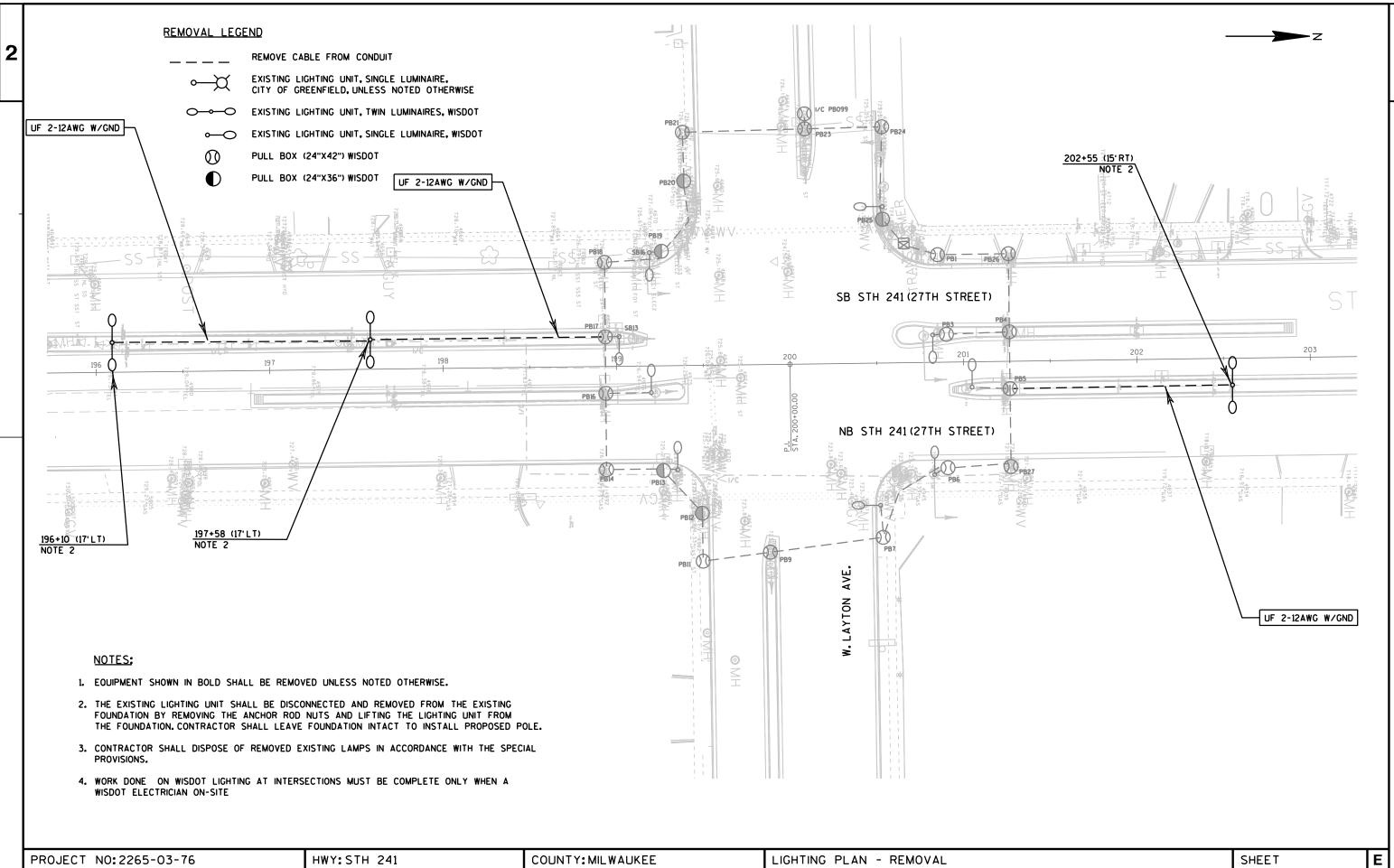
WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023555_lp.dgn
PLOT DATE: 19-APR-2013 16:08 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1 WISDOT/CADDS SHEET 42

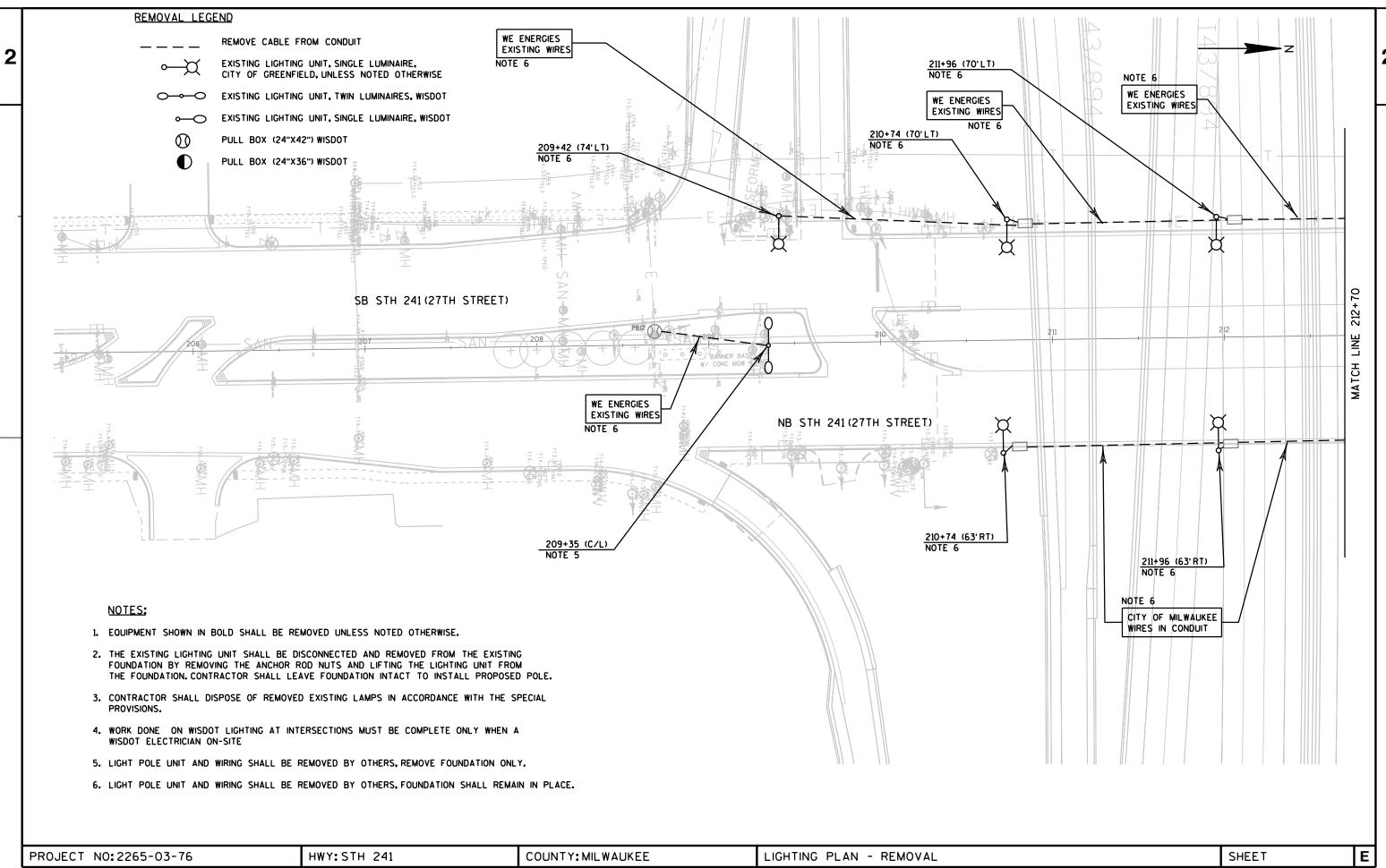


FILE NAME : J:\318\DGN\CADD Sheets\023556_lp.dgn PLOT BY: kprajapati PLOT DATE: 19-APR-2013 16:08 PLOT NAME : PLOT SCALE: 50:1 WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023557_lp.dgn

PLOT DATE: 19-APR-2013 16:08 PLOT NAME: PLOT NAME: PLOT SCALE: 50:1 WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023558_ip.dgn

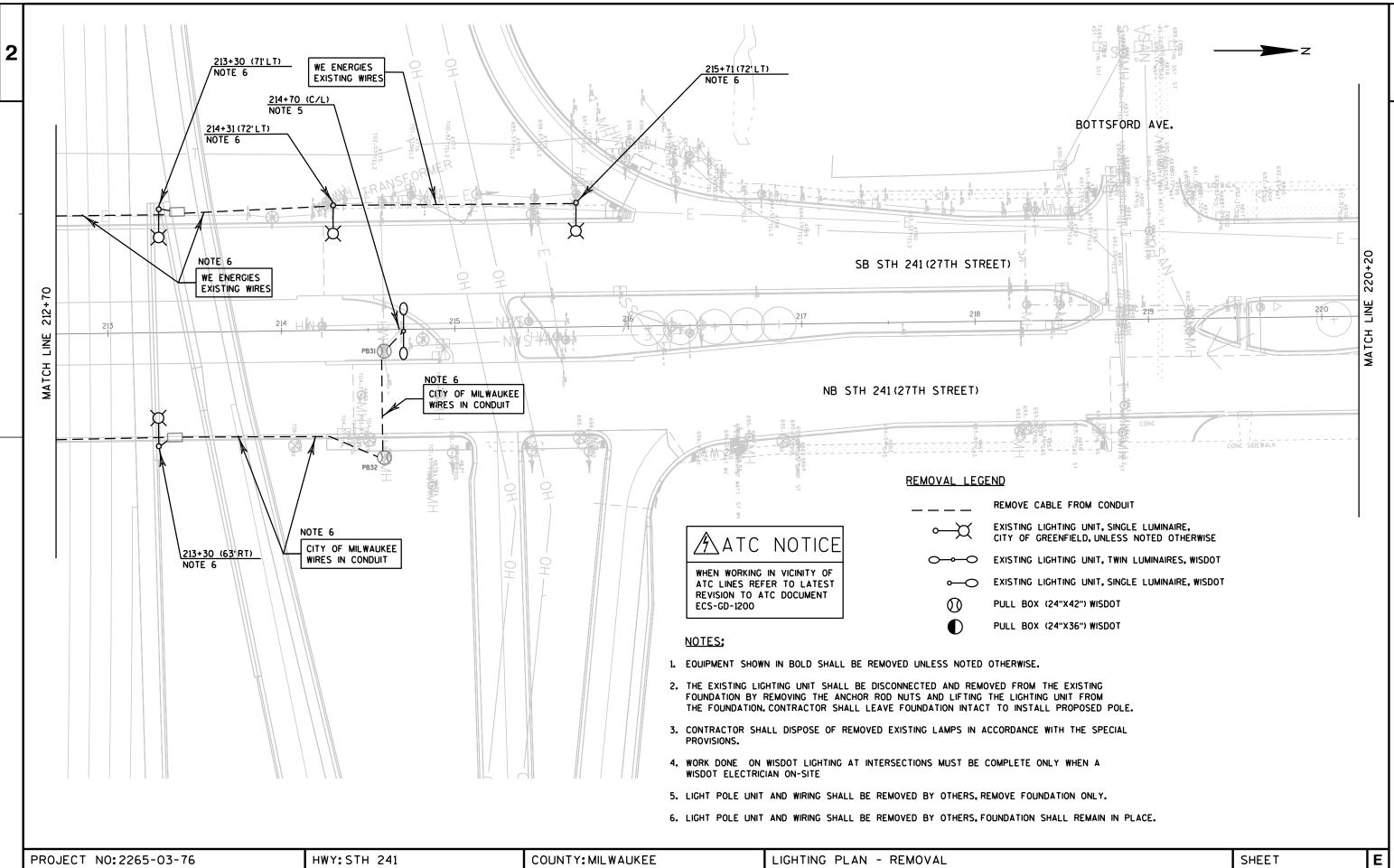
PLOT DATE: 19-APR-2013 16:08

PLOT BY: kprajapati

PLOT NAME:

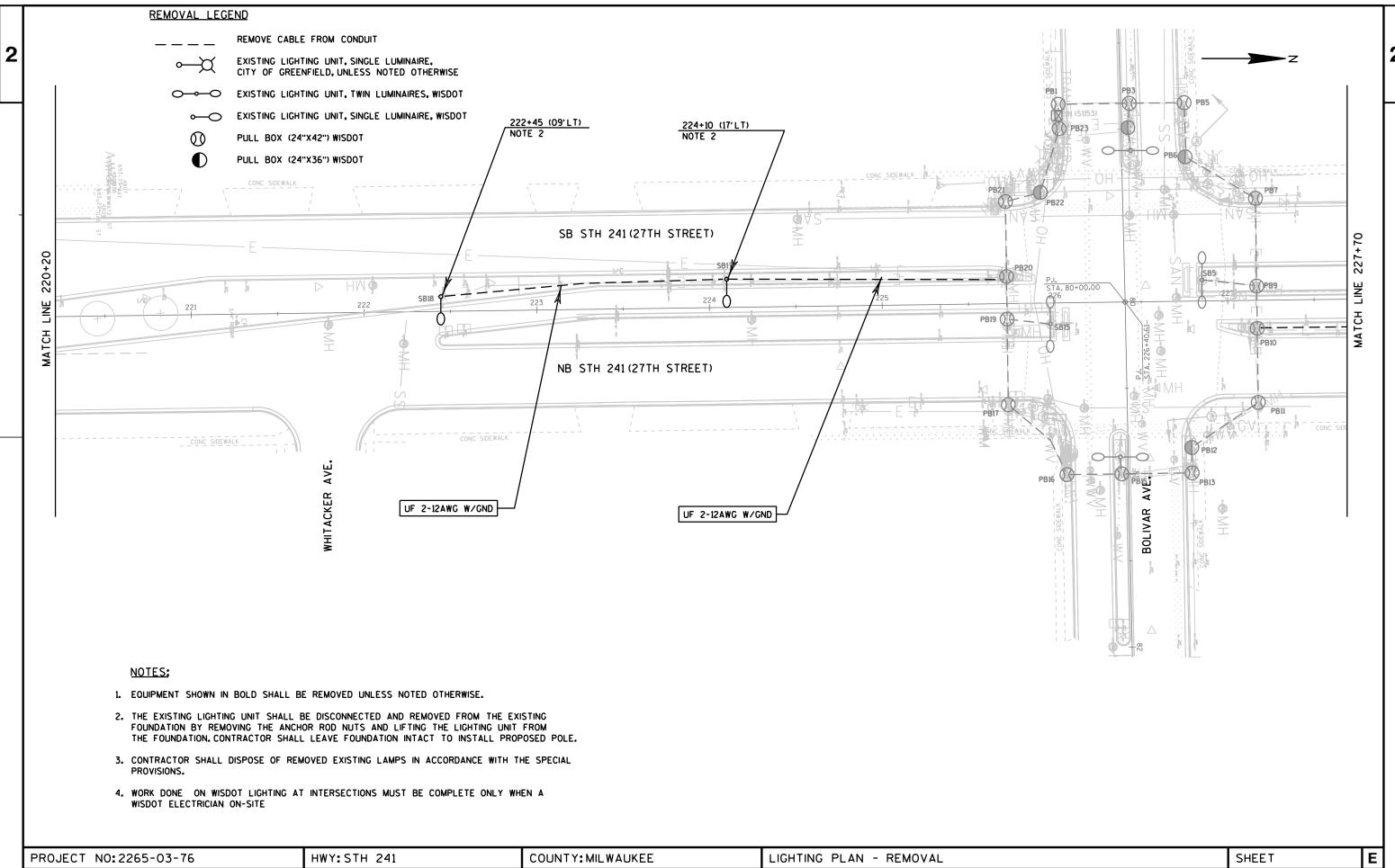
PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023559_lp.dgn

PLOT DATE: 19-APR-2013 16:08 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1 WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023560_lp.dgn

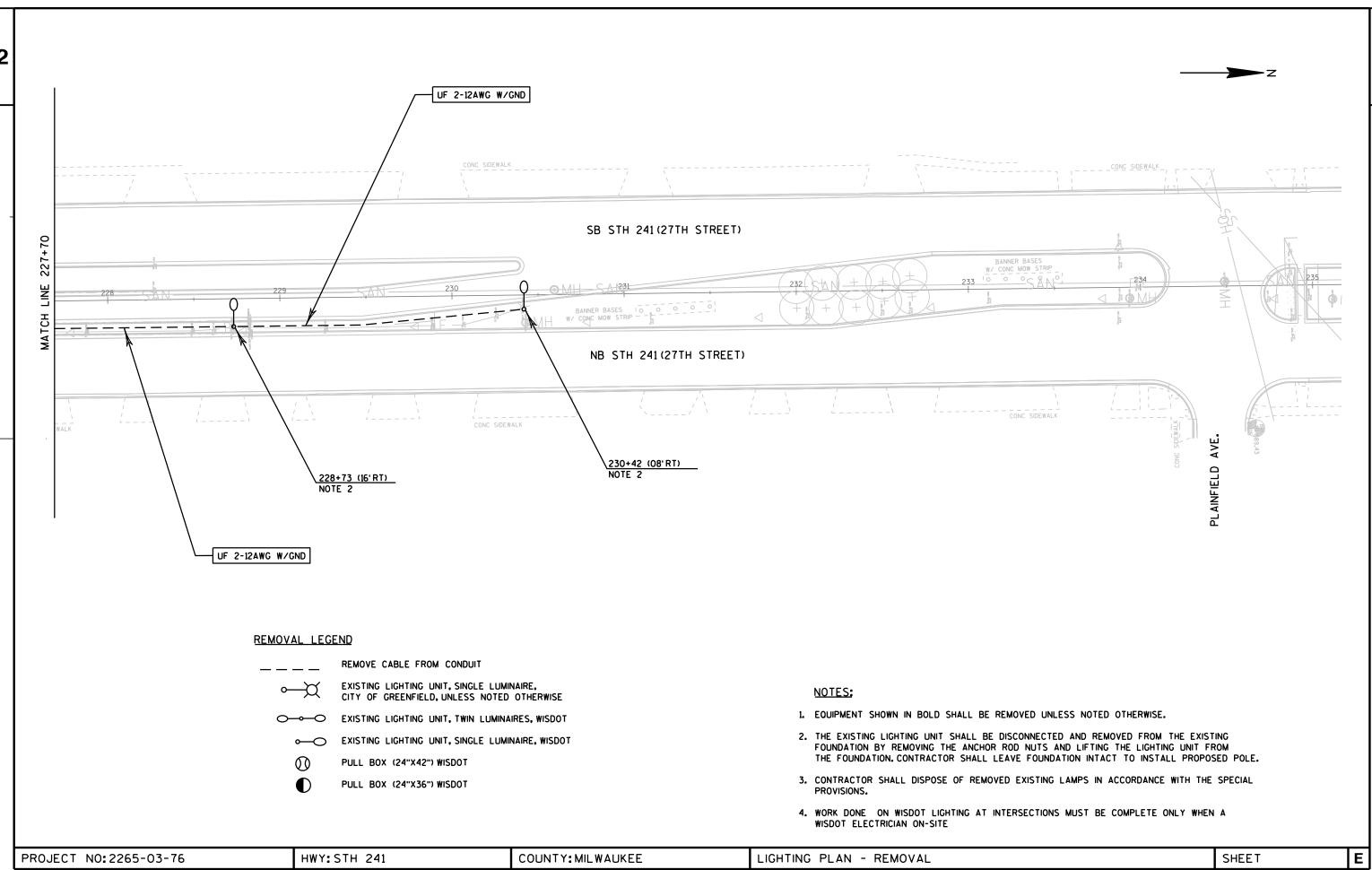
PLOT DATE: 19-APR-2013 16:08

PLOT BY: kprajapati

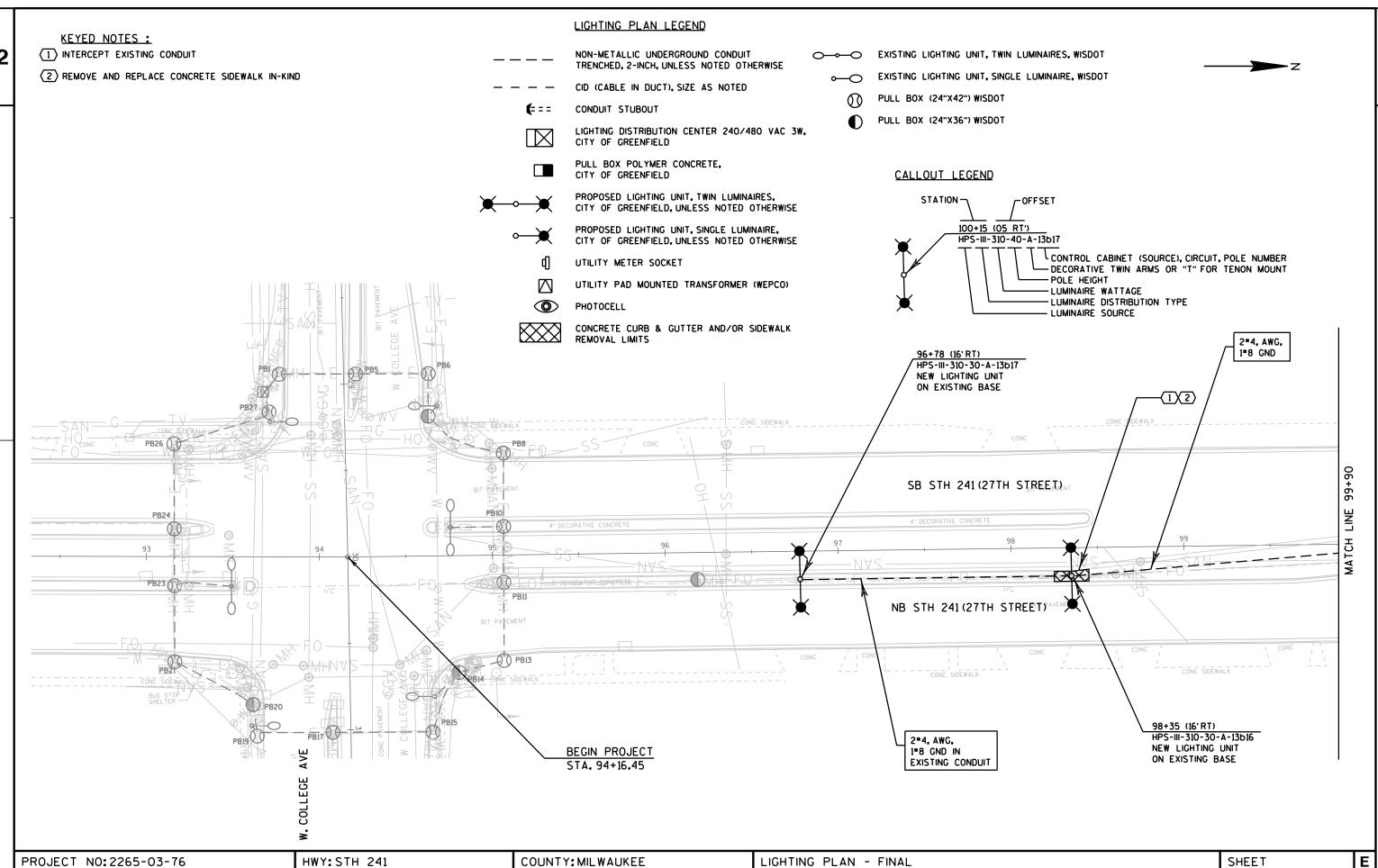
PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42

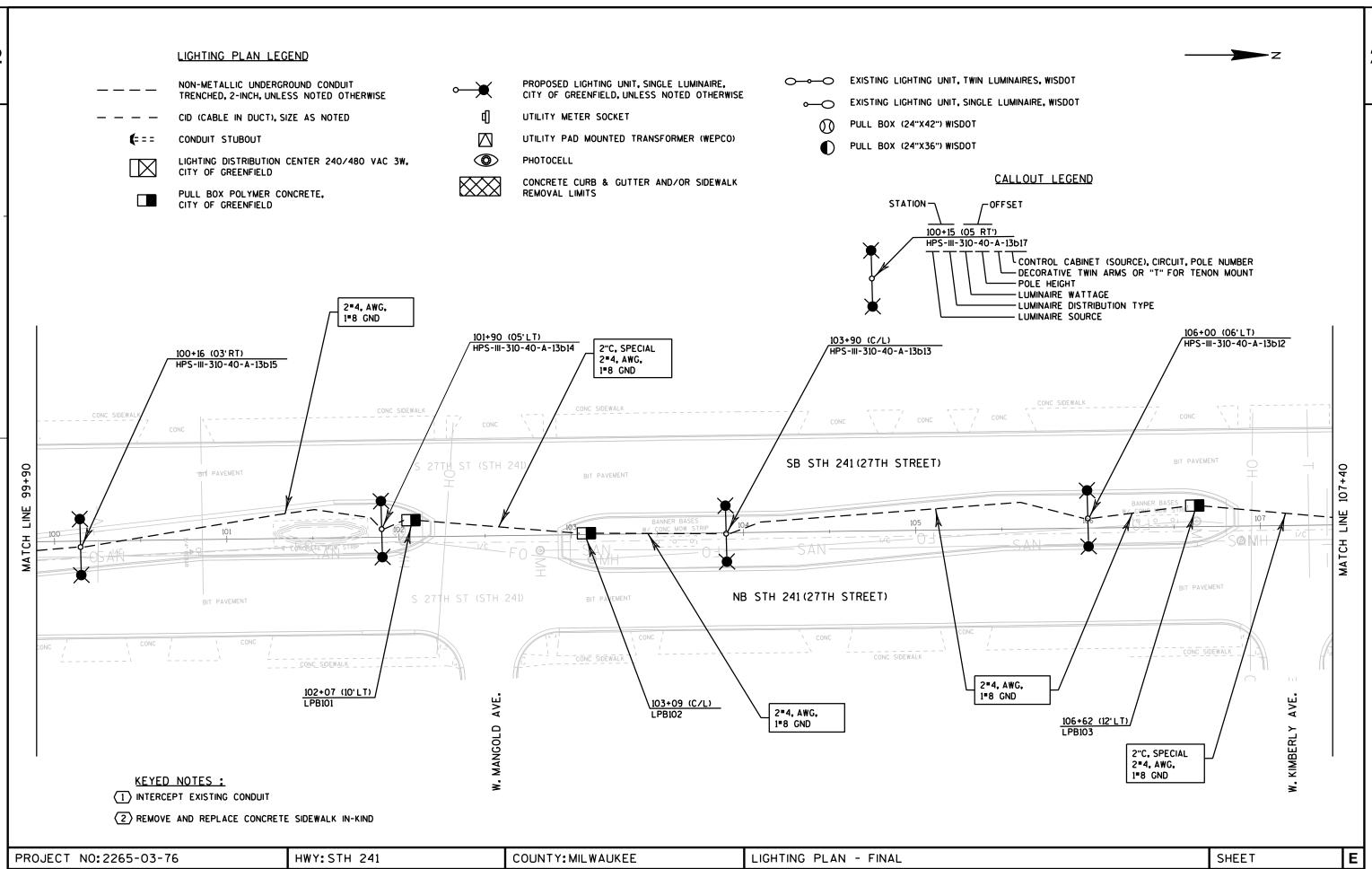


FILE NAME : J:\318\DGN\CADD Sheets\023561_lp.dgn PLOT DATE: 19-APR-2013 16:08 WISDOT/CADDS SHEET 42



PLOT NAME : FILE NAME : J:\318\DGN\CADD Sheets\023600_lp.dgn PLOT DATE: 19-APR-2013 16:08 PLOT BY : kprajapati PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023601_lp.dgn

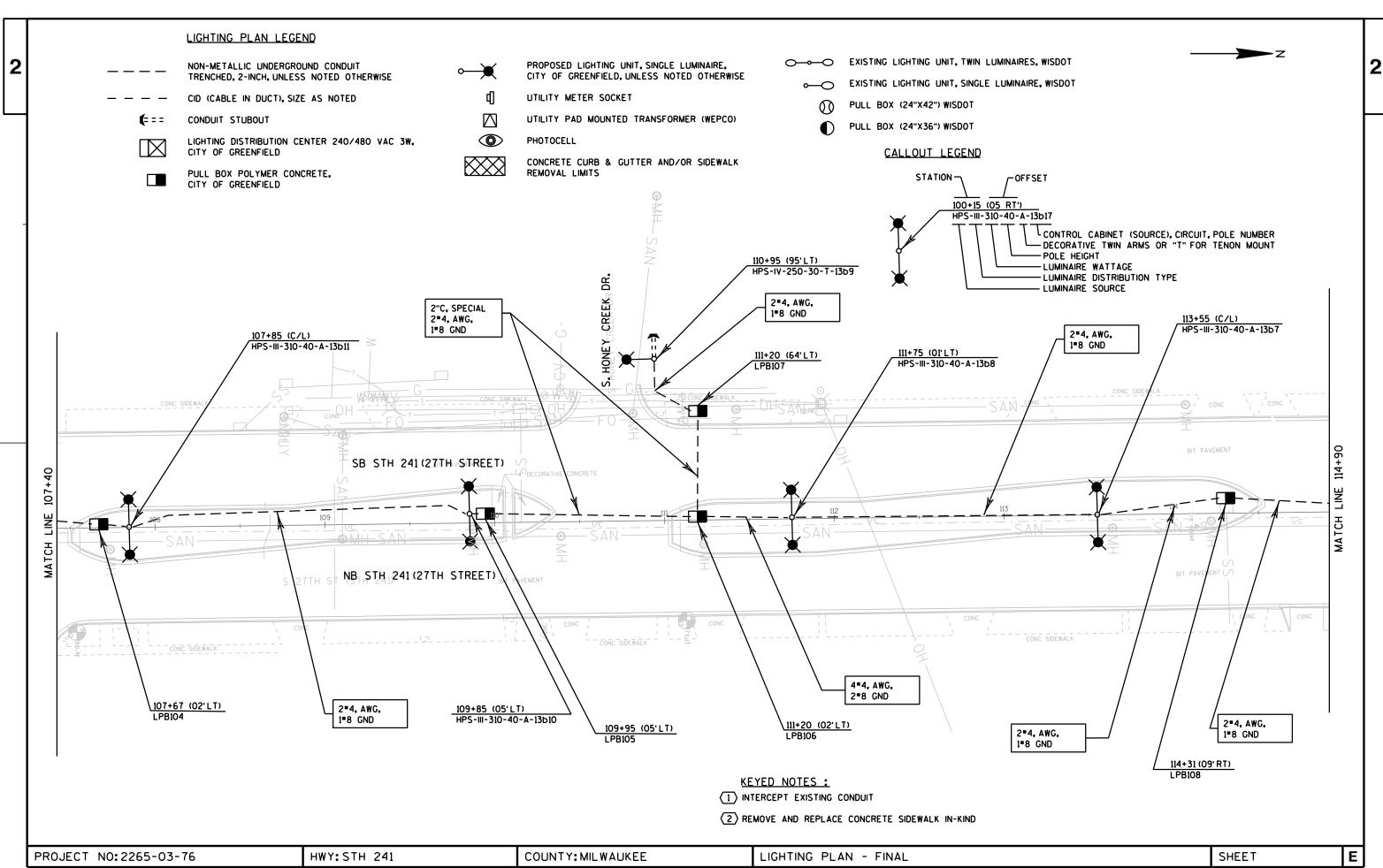
PLOT DATE: 19-APR-2013 16:08

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023602_lp.dgn

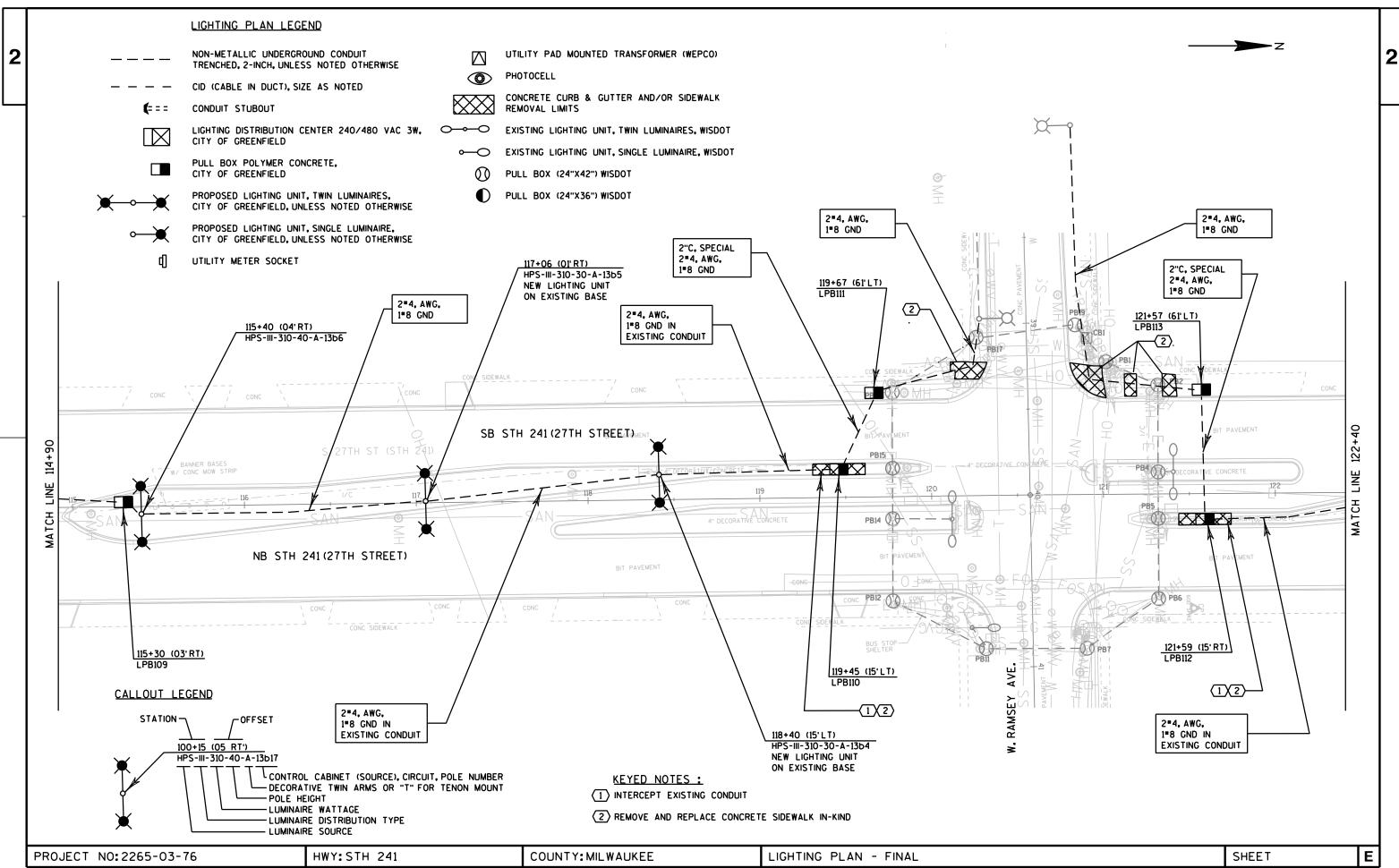
PLOT DATE: 19-APR-2013 16:08

PLOT BY: kprajapati

PLOT NAME:

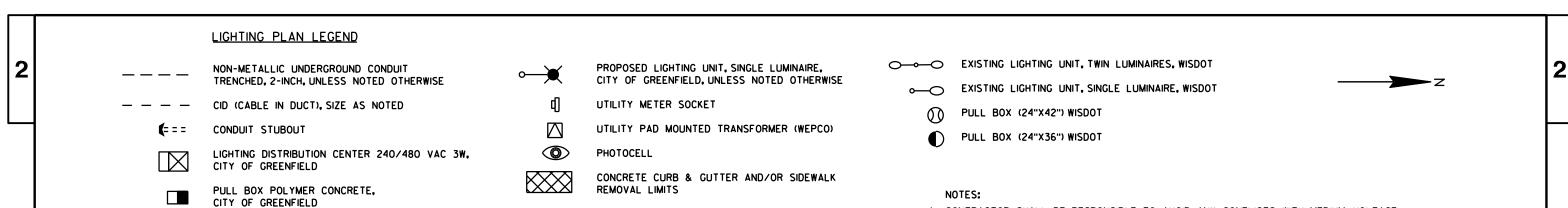
PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42

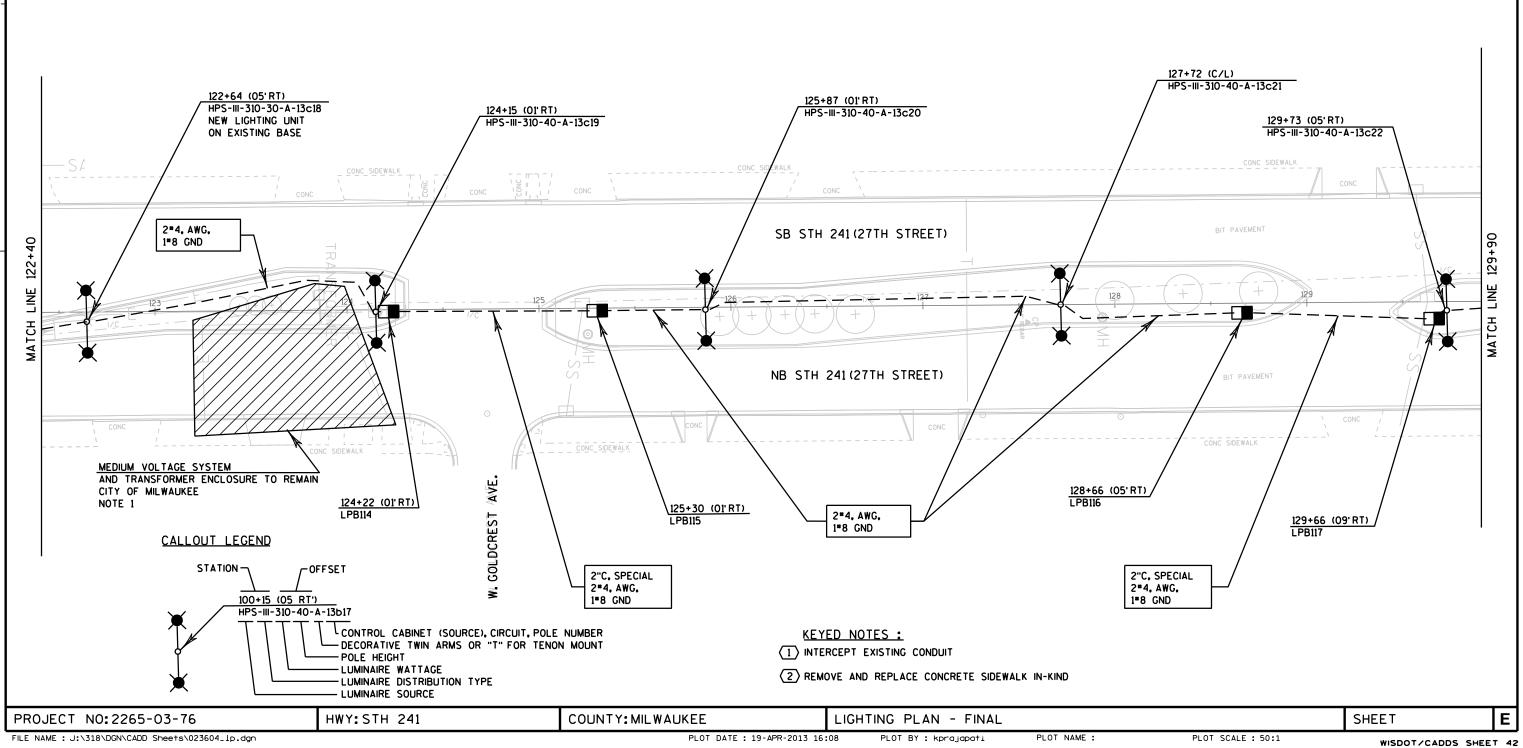


FILE NAME: J:\318\DGN\CADD Sheets\023603_lp.dgn PLOT BY: kprajapati PLOT NAME: 9-LOT NAME:

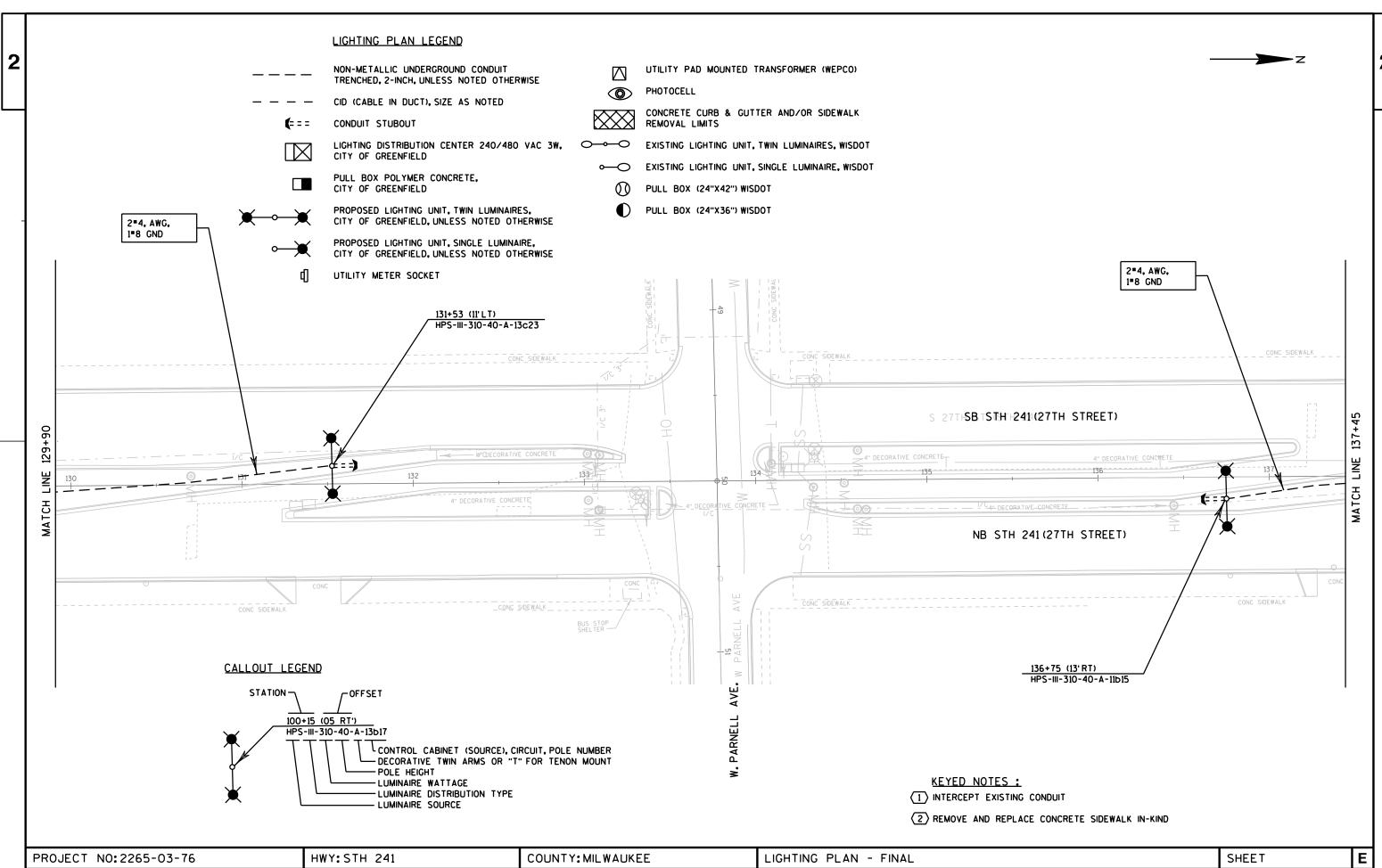
WISDOT/CADDS SHEET 42



1. CONTRACTOR SHALL BE RESPONSIBLE TO AVOID ANY CONFLICTS WITH MEDIUM VOLTAGE UNDERGROUND FEEDER AND TRANSFORMER ENCLOSURE LOCATED IN MEDIAN. CONTRACTOR SHALL TAKE EXTRA PRECAUTION MEASURES WORKING AROUND THIS SYSTEMS.



PLOT BY : kprajapati PLOT NAME : FILE NAME : J:\318\DGN\CADD Sheets\023604_lp.dgn PLOT SCALE: 50:1



FILE NAME: J:\318\DGN\CADD Sheets\023605_lp.dgn

PLOT DATE: 19-APR-2013 16:08

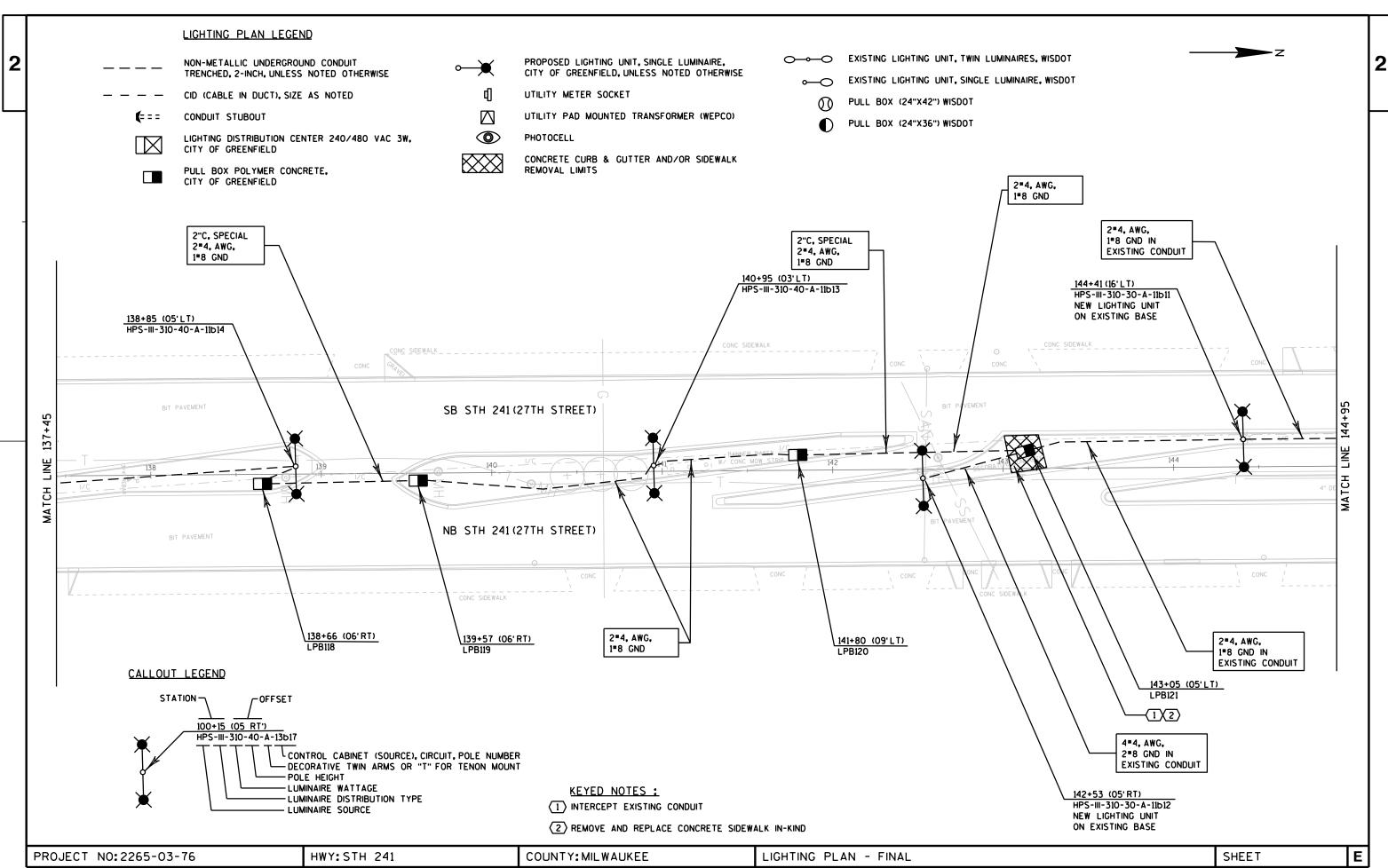
PLOT BY: kprajapati

PLOT NAME:

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023606_ip.dgn

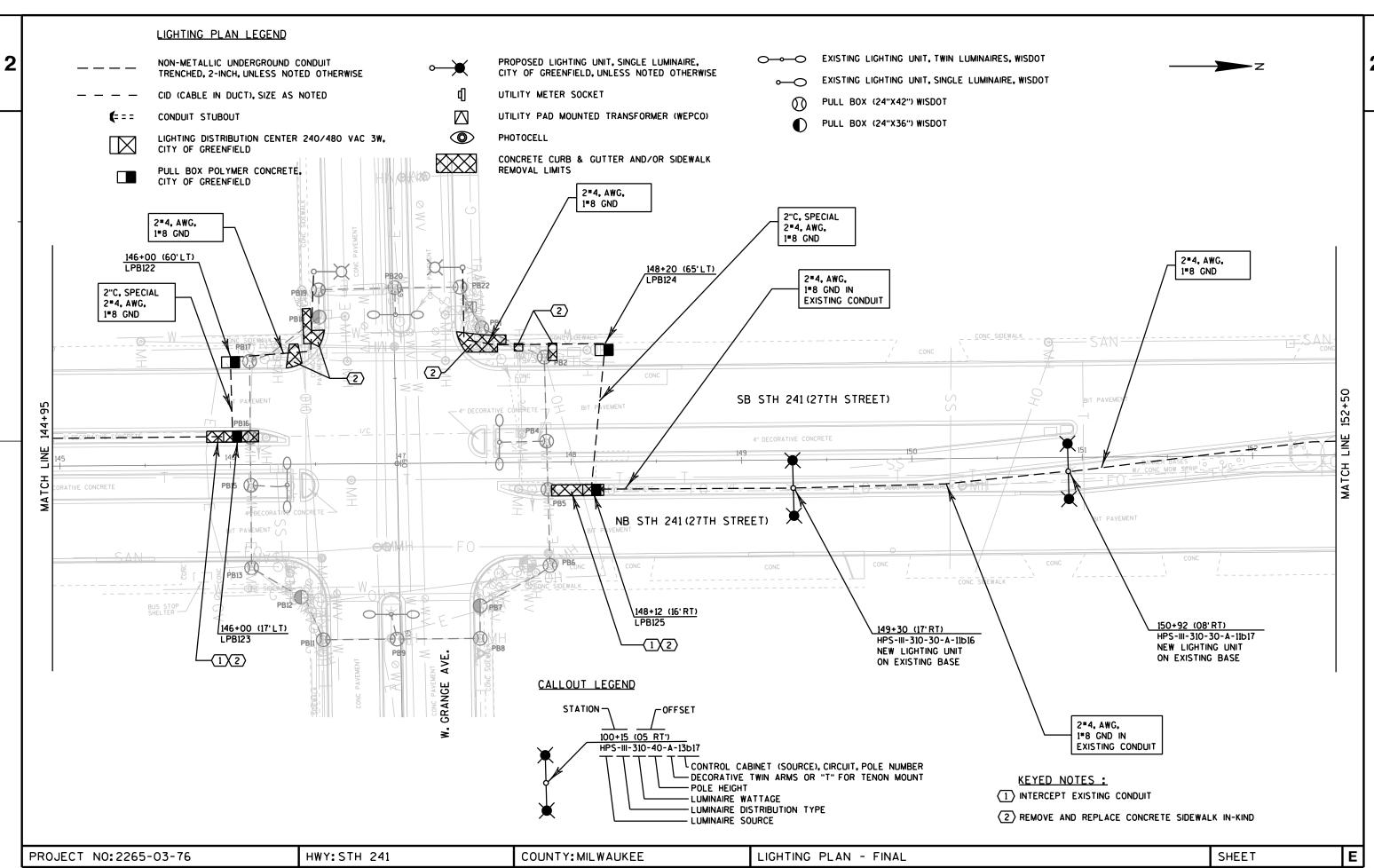
PLOT DATE: 19-APR-2013 16:08

PLOT BY: kprajapati

PLOT NAME:

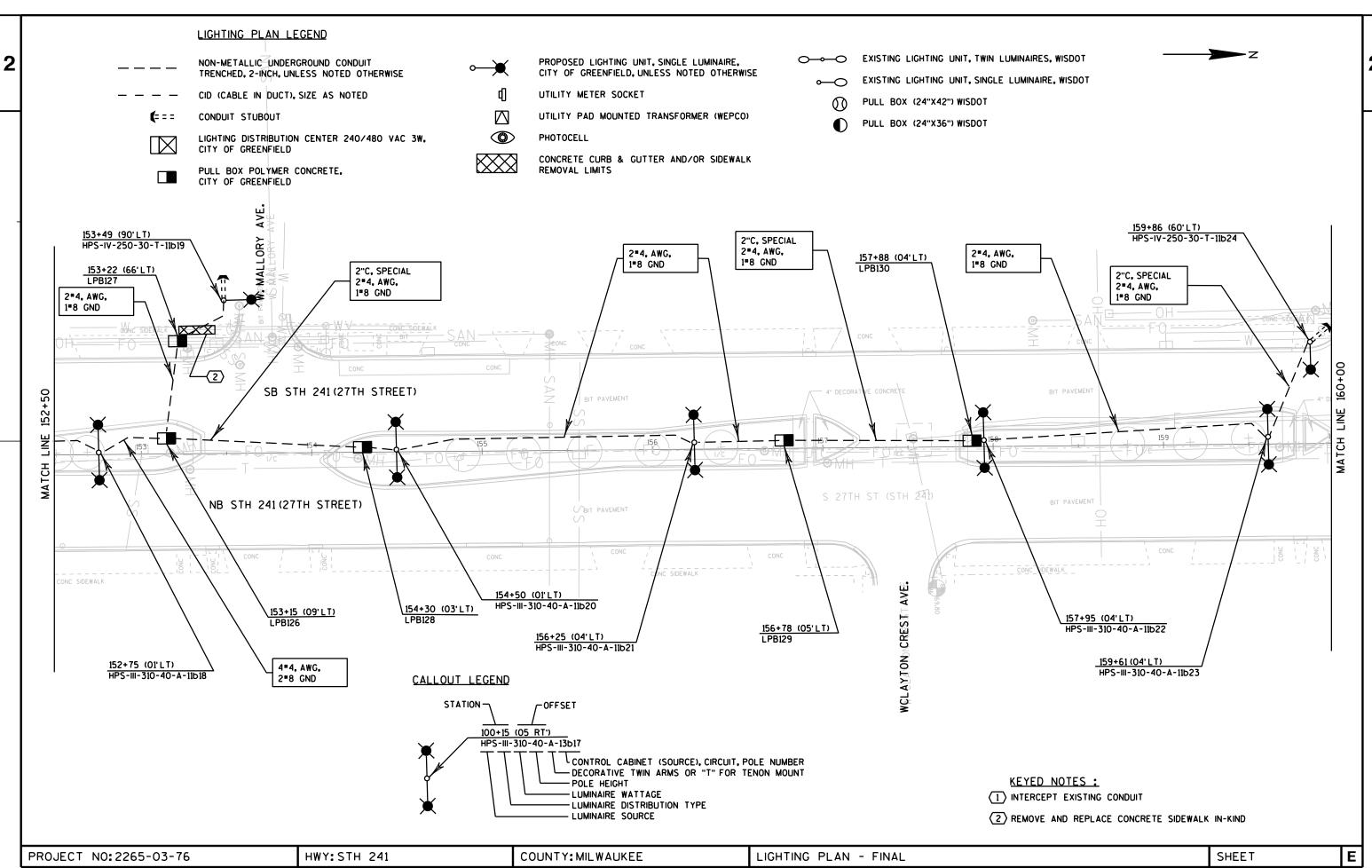
PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



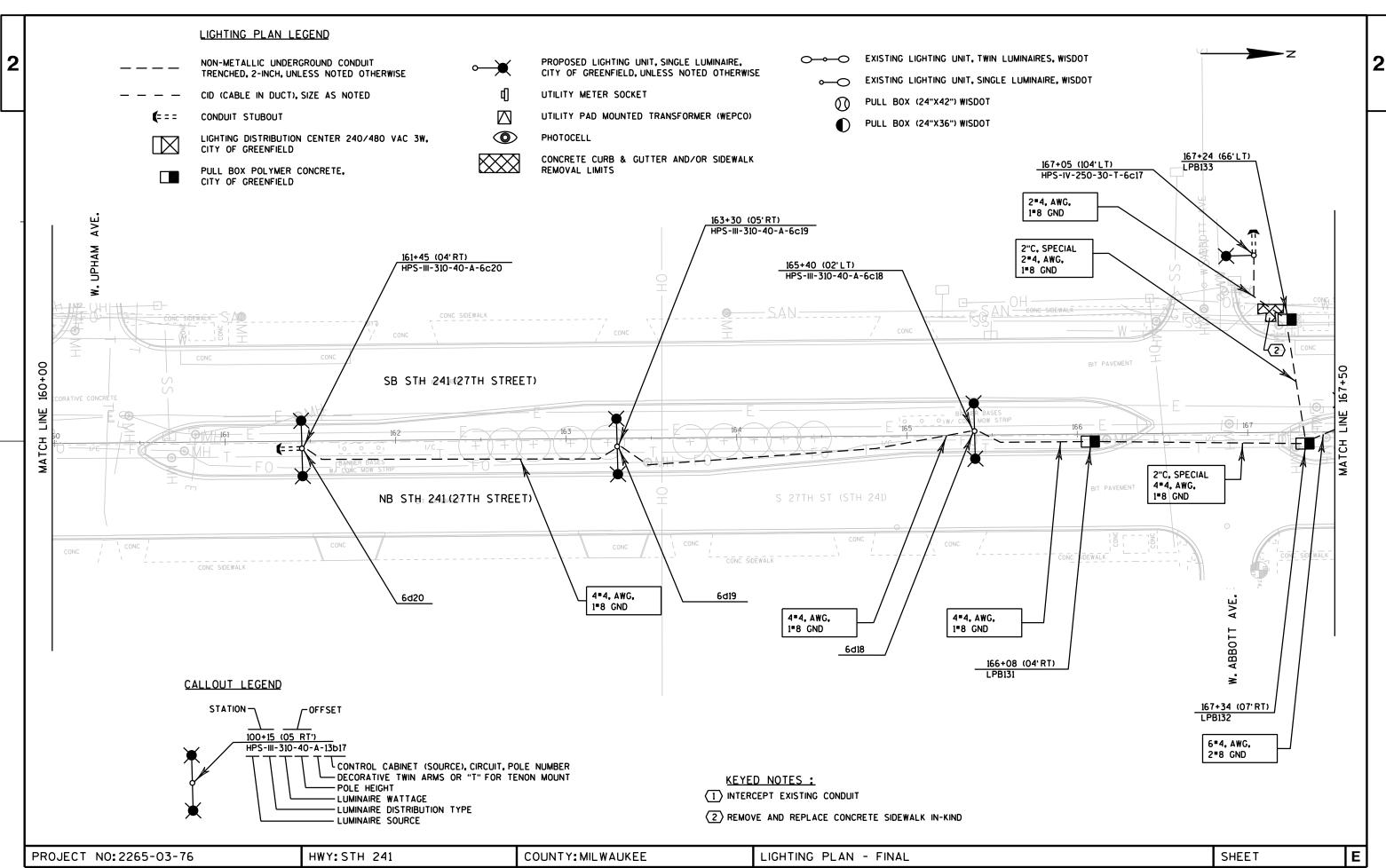
FILE NAME: J:\318\DGN\CADD Sheets\023607_lp.dgn PLOT BY: kprajapati PLOT NAME: PLOT NAME: PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023608_Ip.dgn

PLOT DATE: 19-APR-2013 16:08 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1 WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023609_lp.dgn

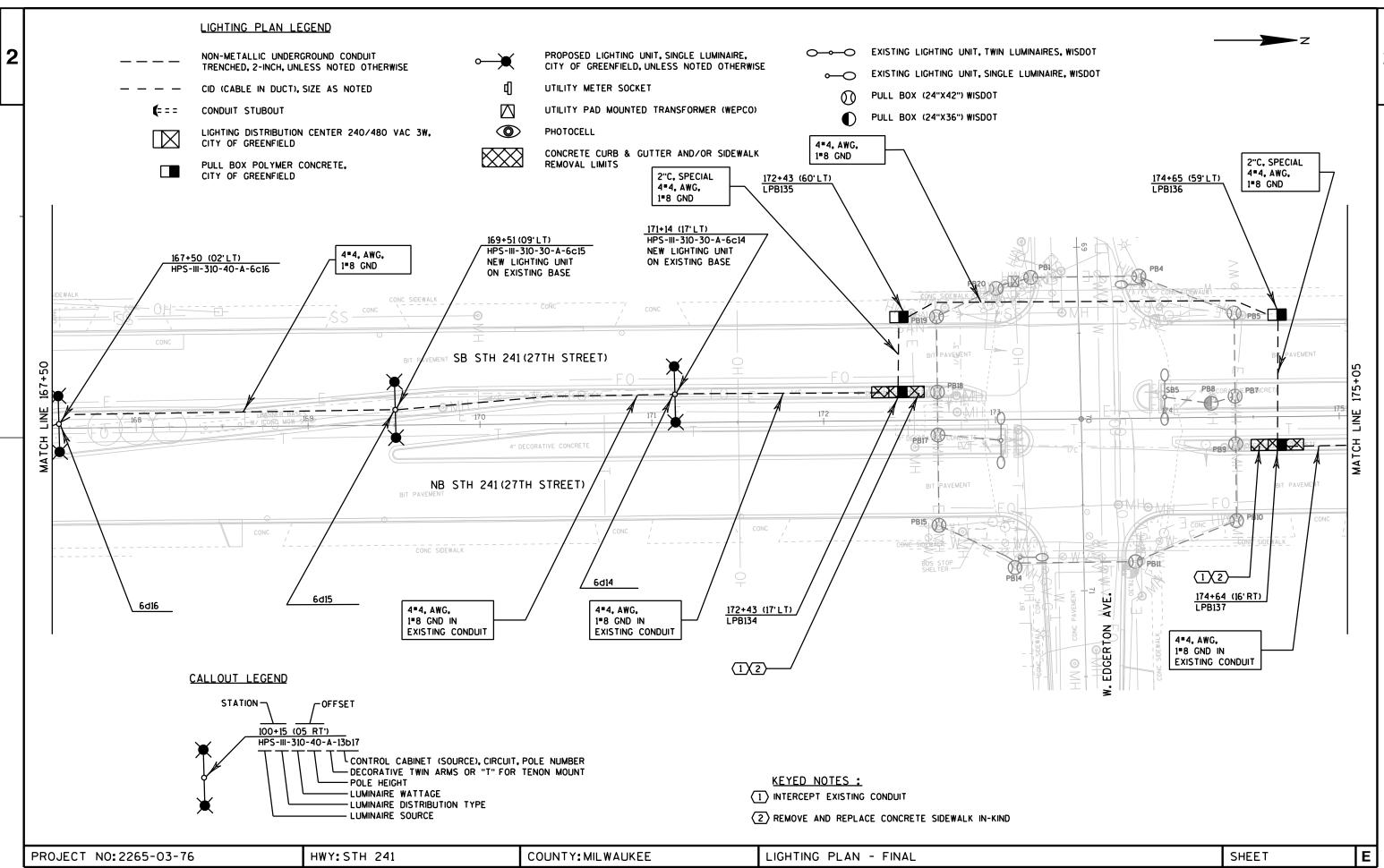
PLOT DATE: 19-APR-2013 16:08

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023610_lp.dgn

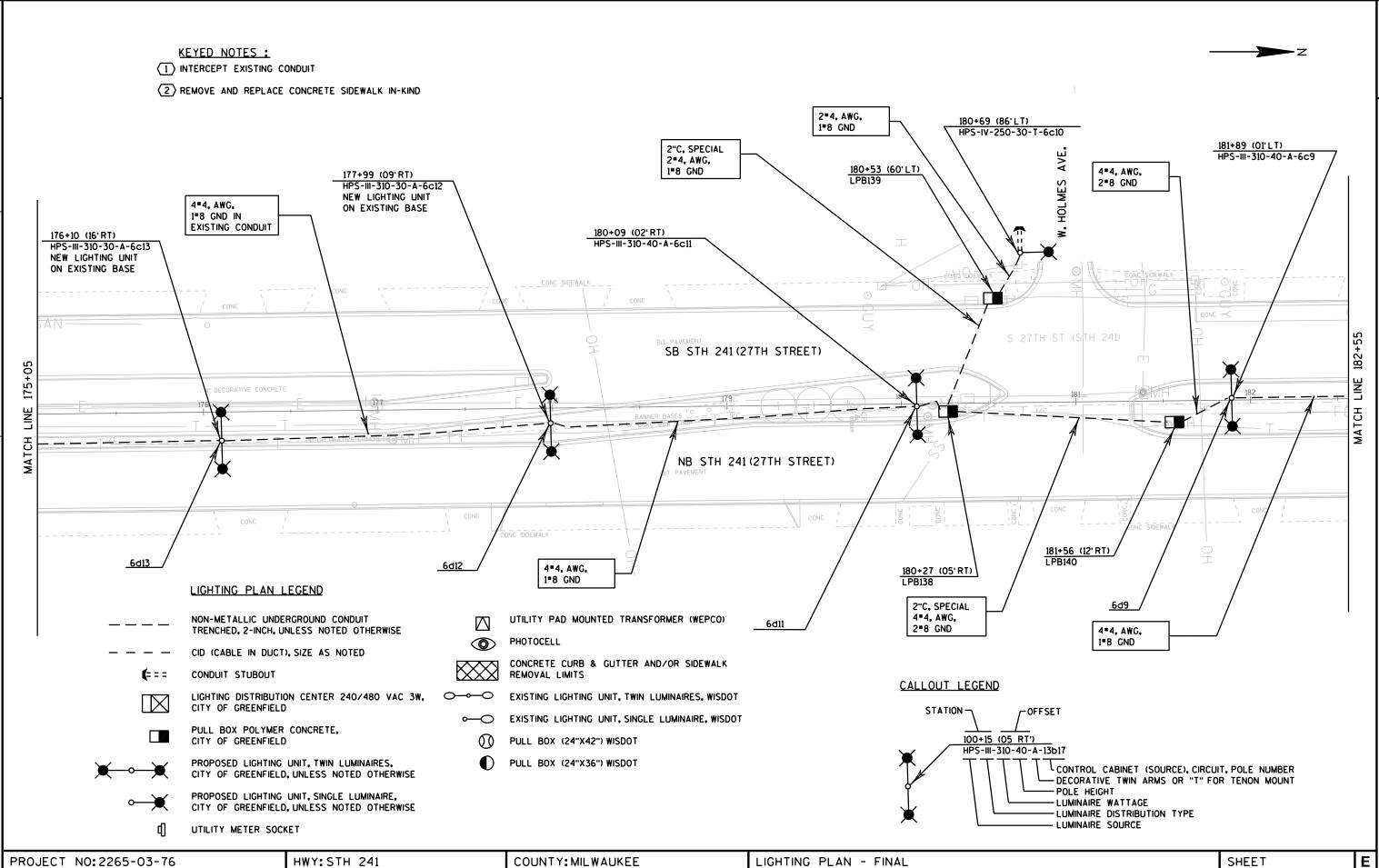
PLOT DATE: 19-APR-2013 16:09

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023611_lp.dgn

PLOT DATE: 19-APR-2013 16:09

PLOT DATE: 19-APR-2013 16:09

PLOT NAME:

PLOT NAME:

PLOT NAME:

PLOT NAME:

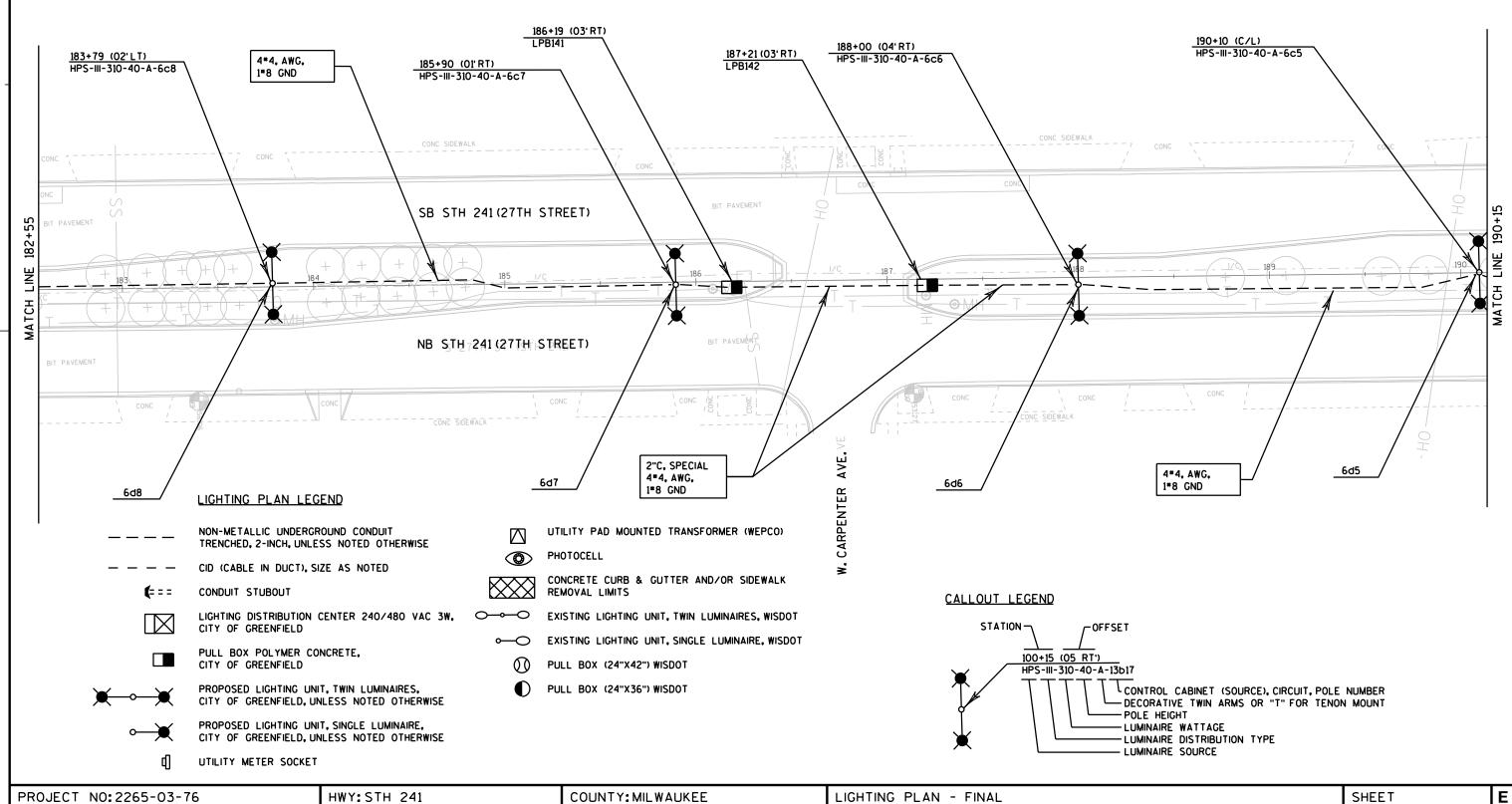
PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42

z

KEYED NOTES :

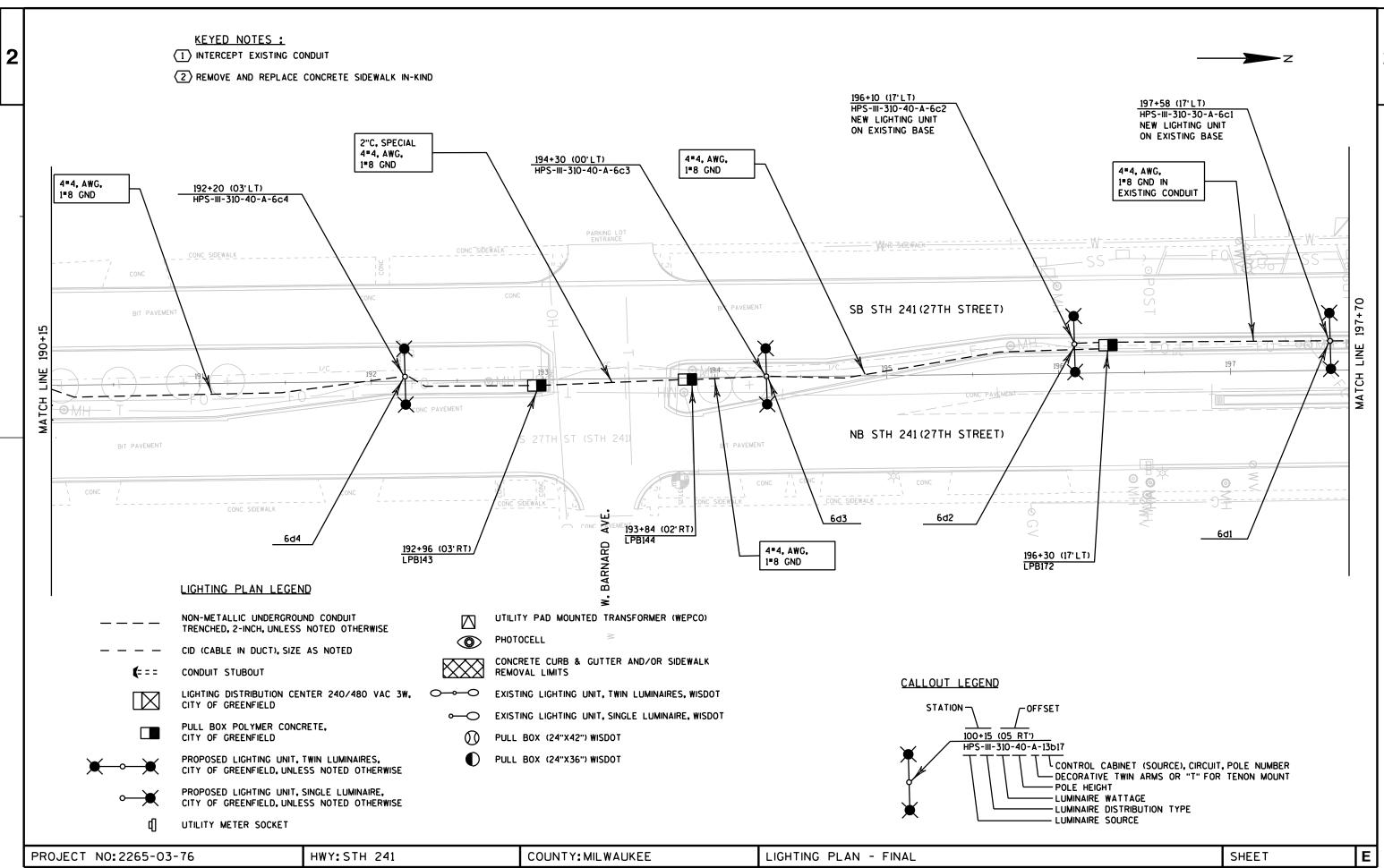
- 1 INTERCEPT EXISTING CONDUIT
- 2 REMOVE AND REPLACE CONCRETE SIDEWALK IN-KIND



FILE NAME: J:\318\DGN\CADD Sheets\023612_lp.dgn

PLOT DATE: 19-APR-2013 16:09 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023613_lp.dgn

PLOT DATE: 19-APR-2013 16:09

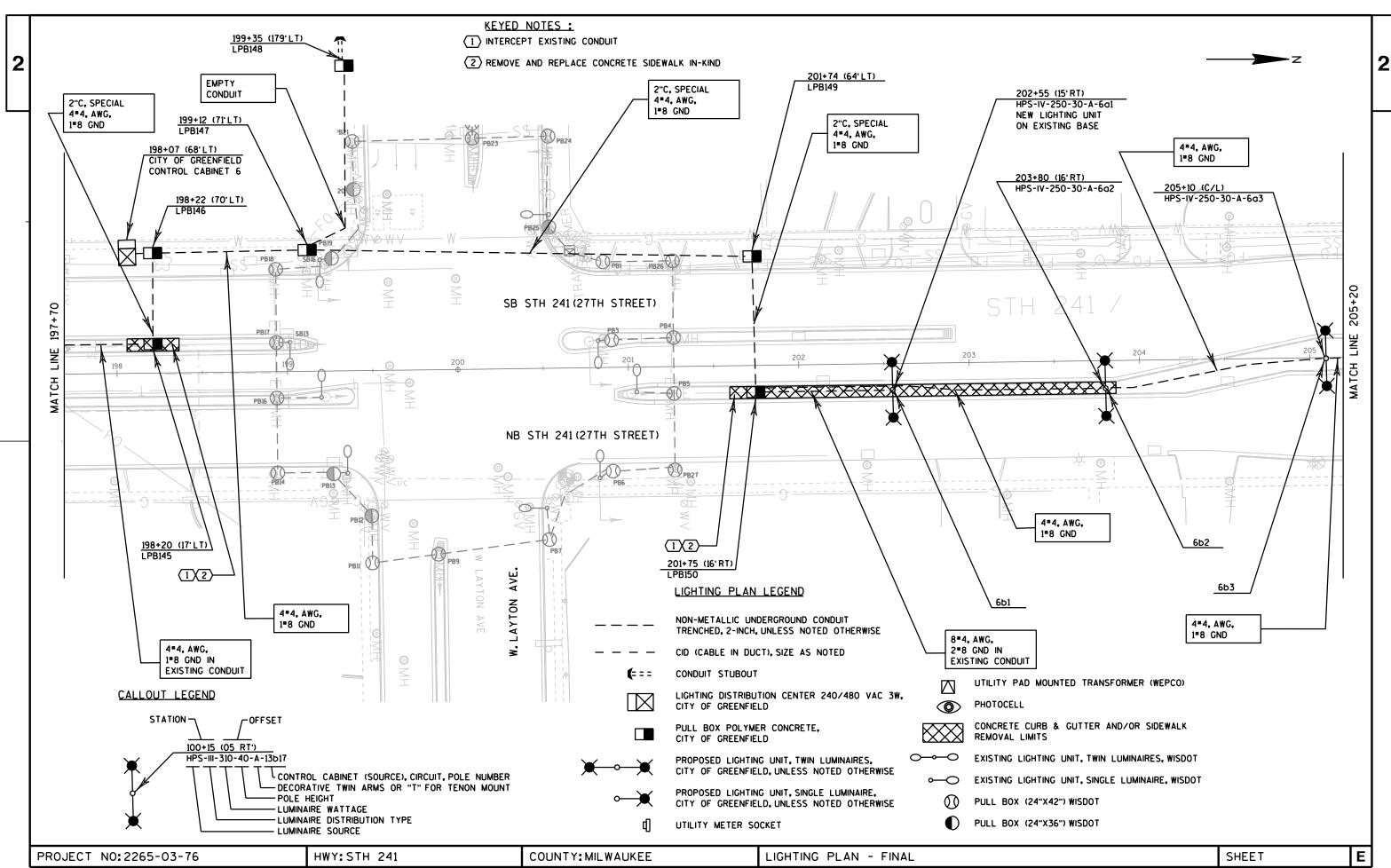
PLOT BY: kprajapati

PLOT NAME:

PLOT NAME:

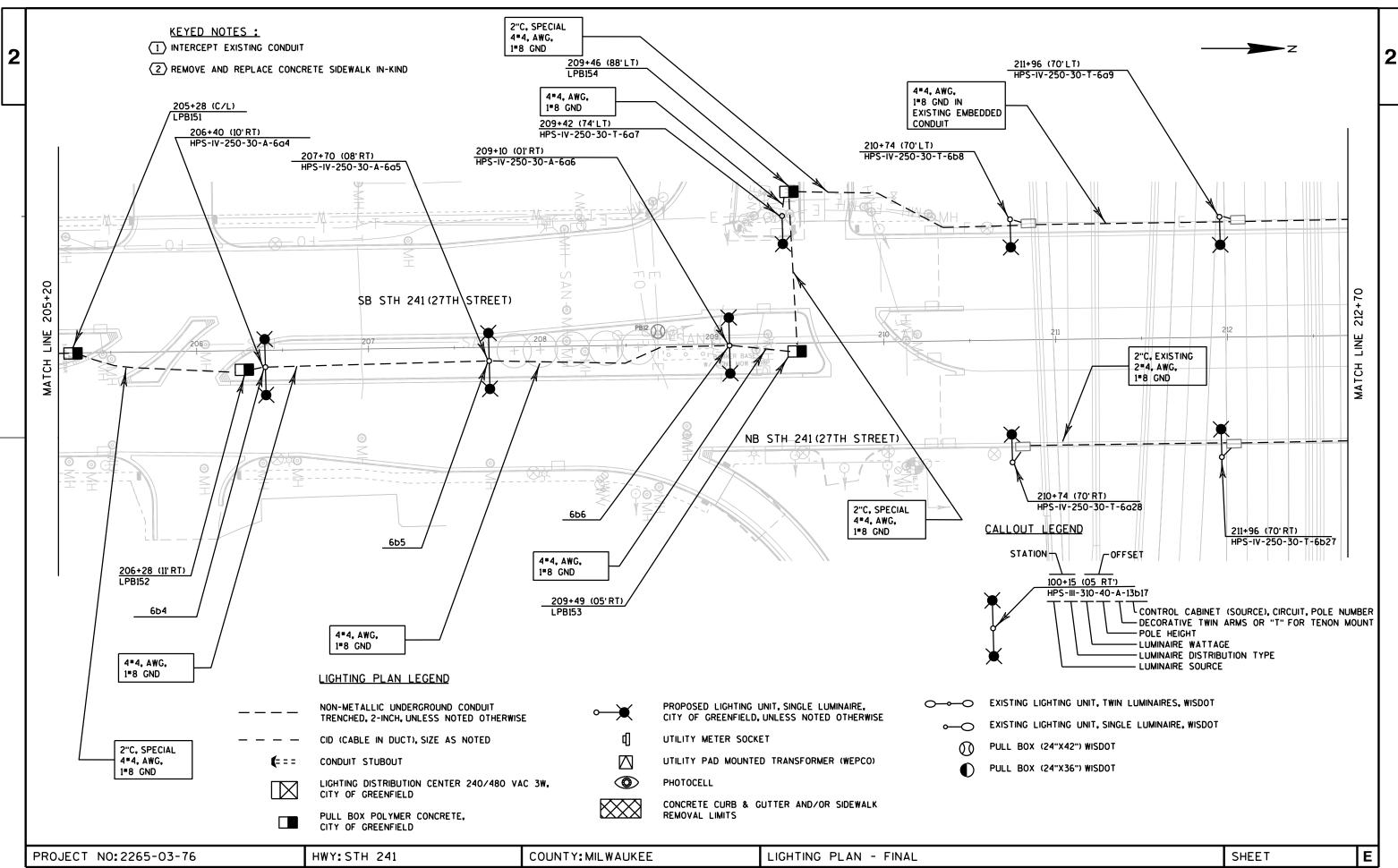
PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023614_Ip.dgn PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023615_lp.dgn

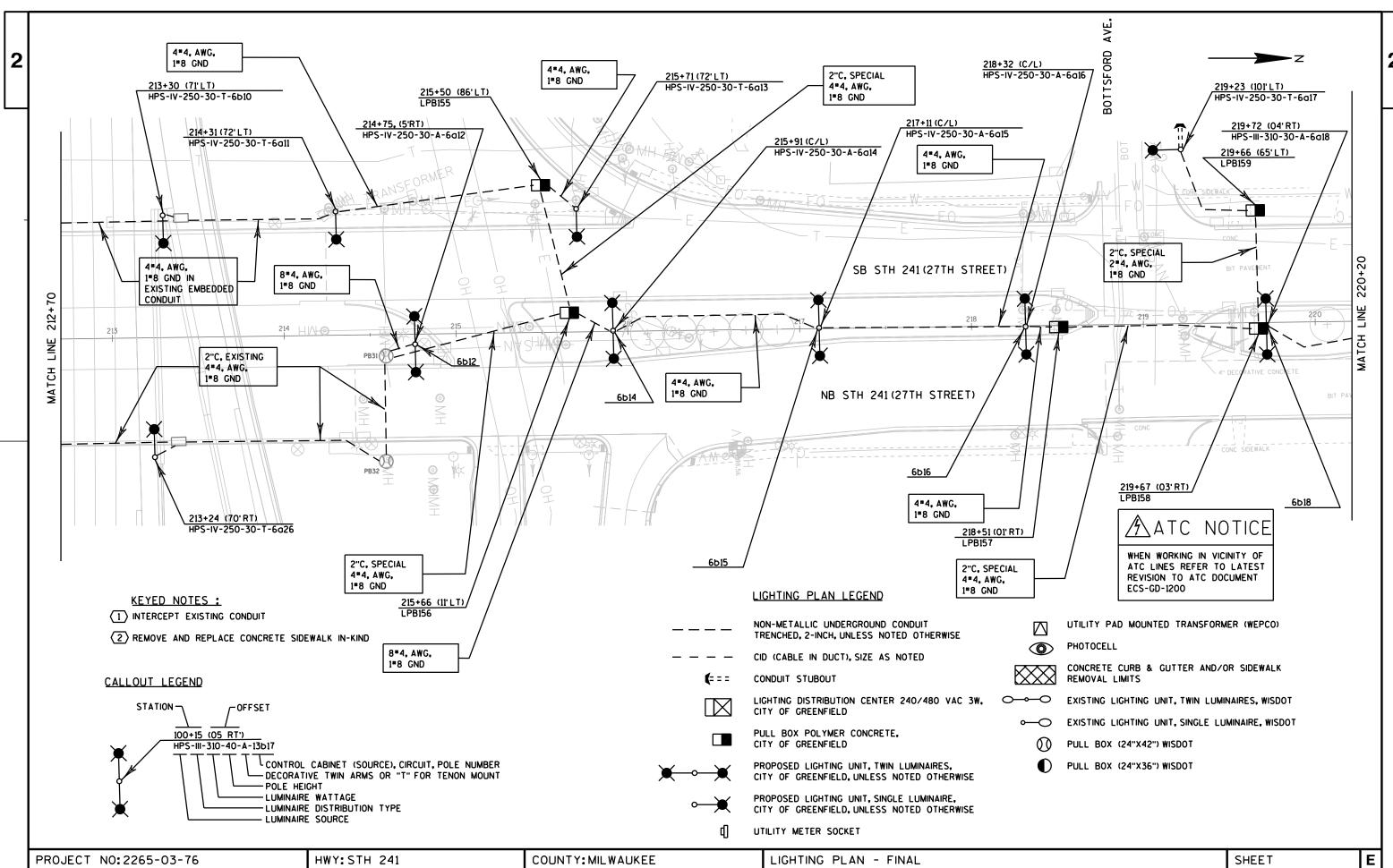
PLOT DATE: 19-APR-2013 16:09

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023616_lp.dgn

PLOT DATE: 19-APR-2013 16:09

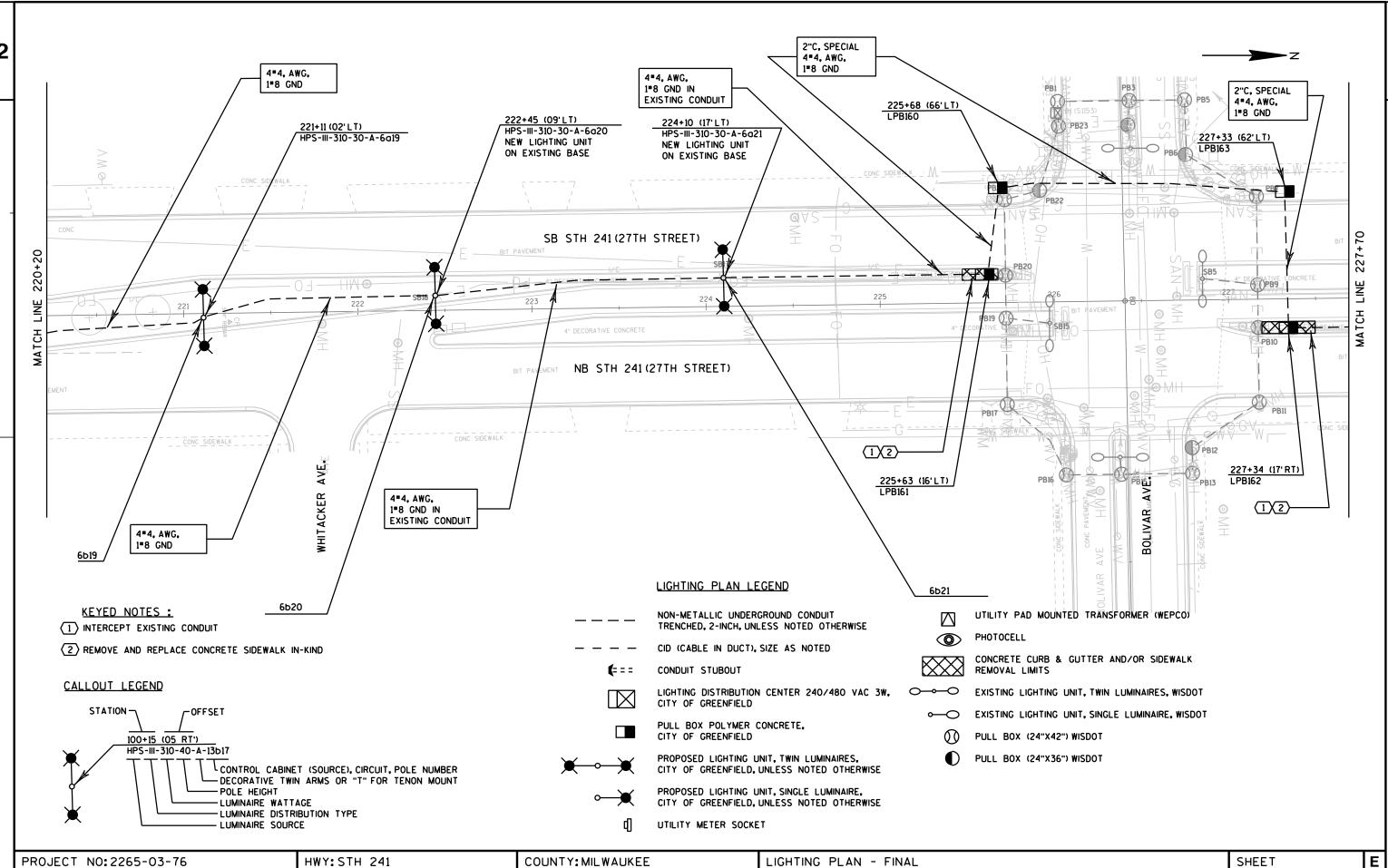
PLOT BY: kprajapati

PLOT NAME:

PLOT NAME:

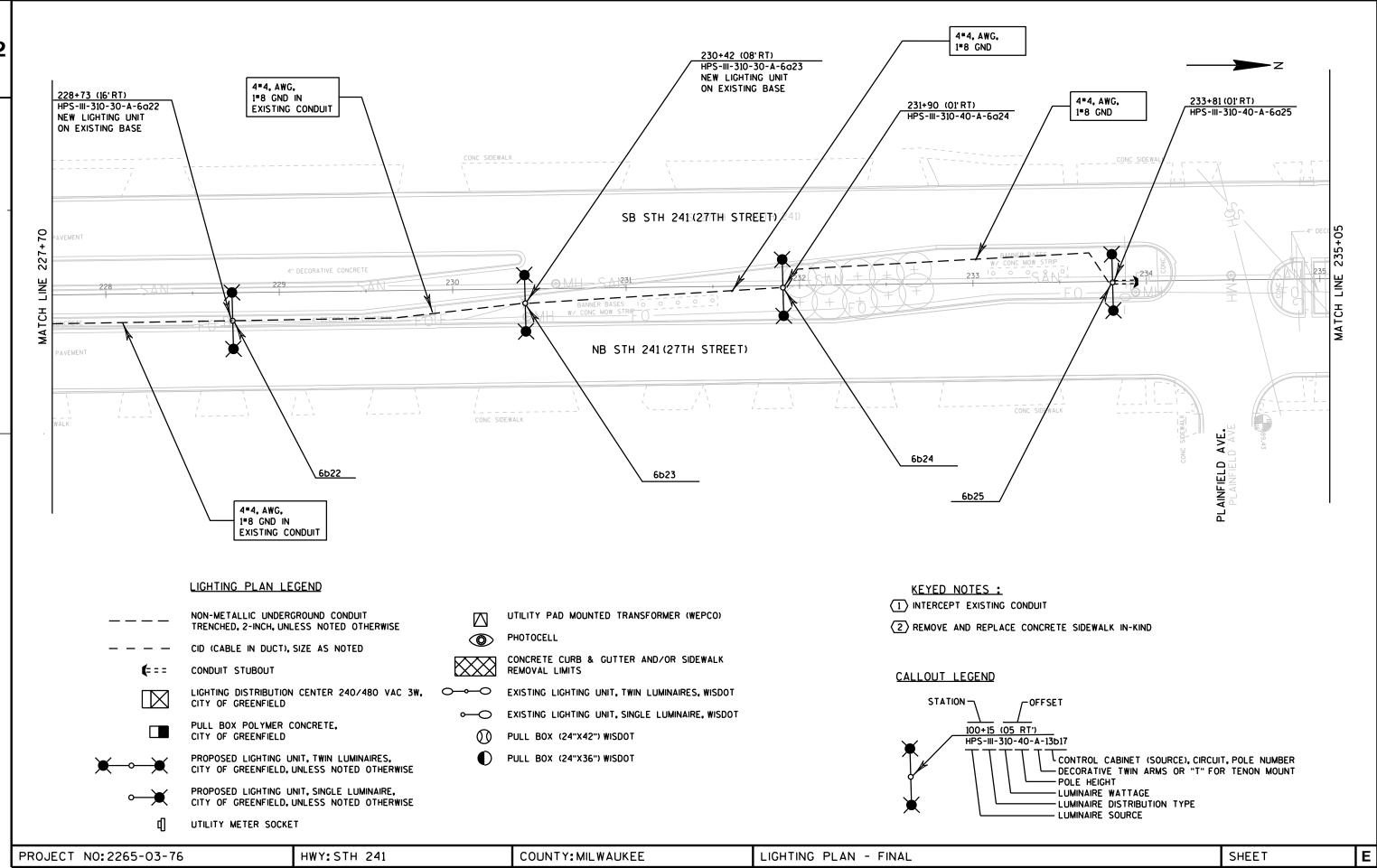
PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023617_lp.dgn

PLOT DATE: 19-APR-2013 16:09 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 50:1 WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023618_Ip.dgn

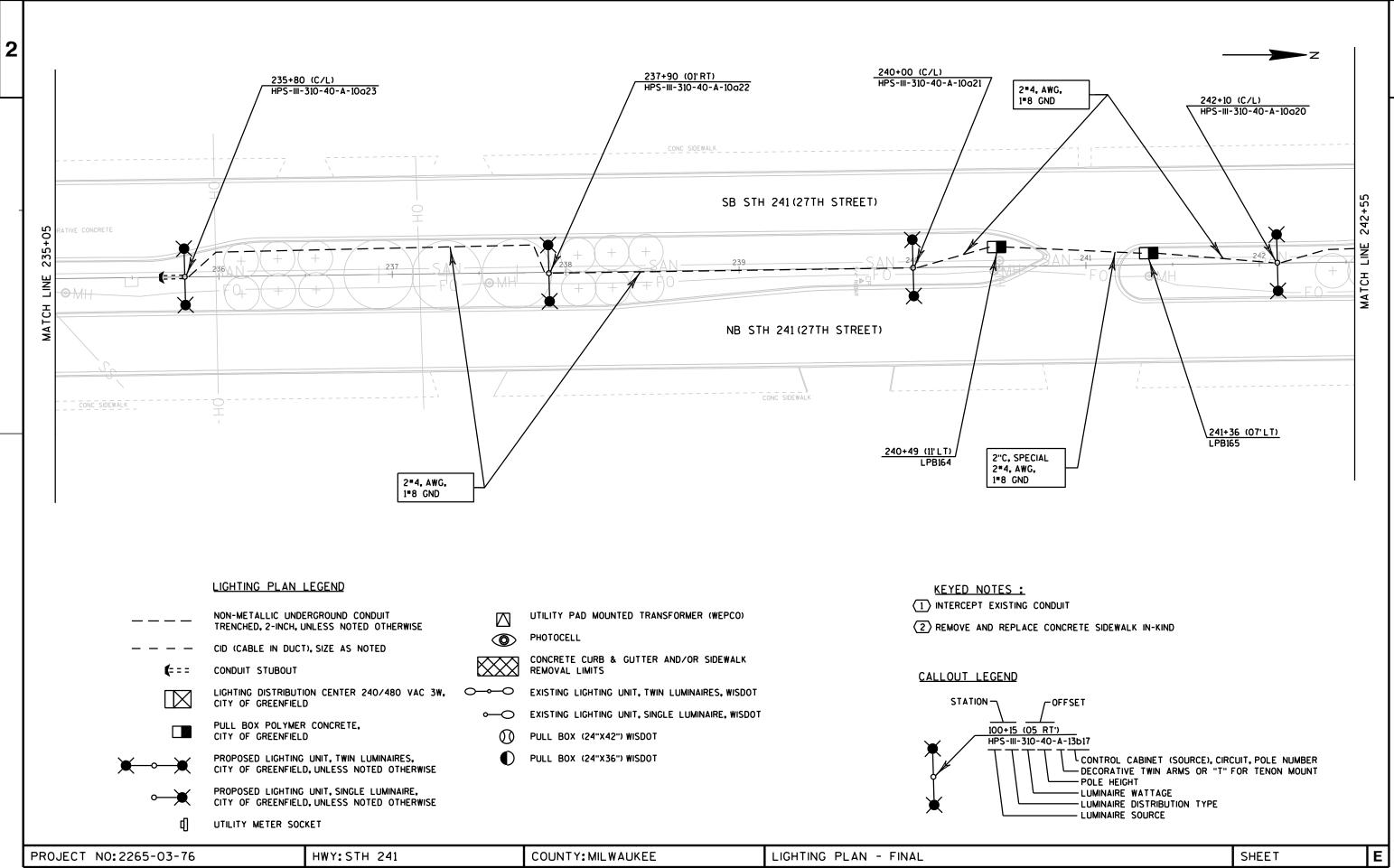
PLOT DATE: 19-APR-2013 16:09

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023619_lp.dgn

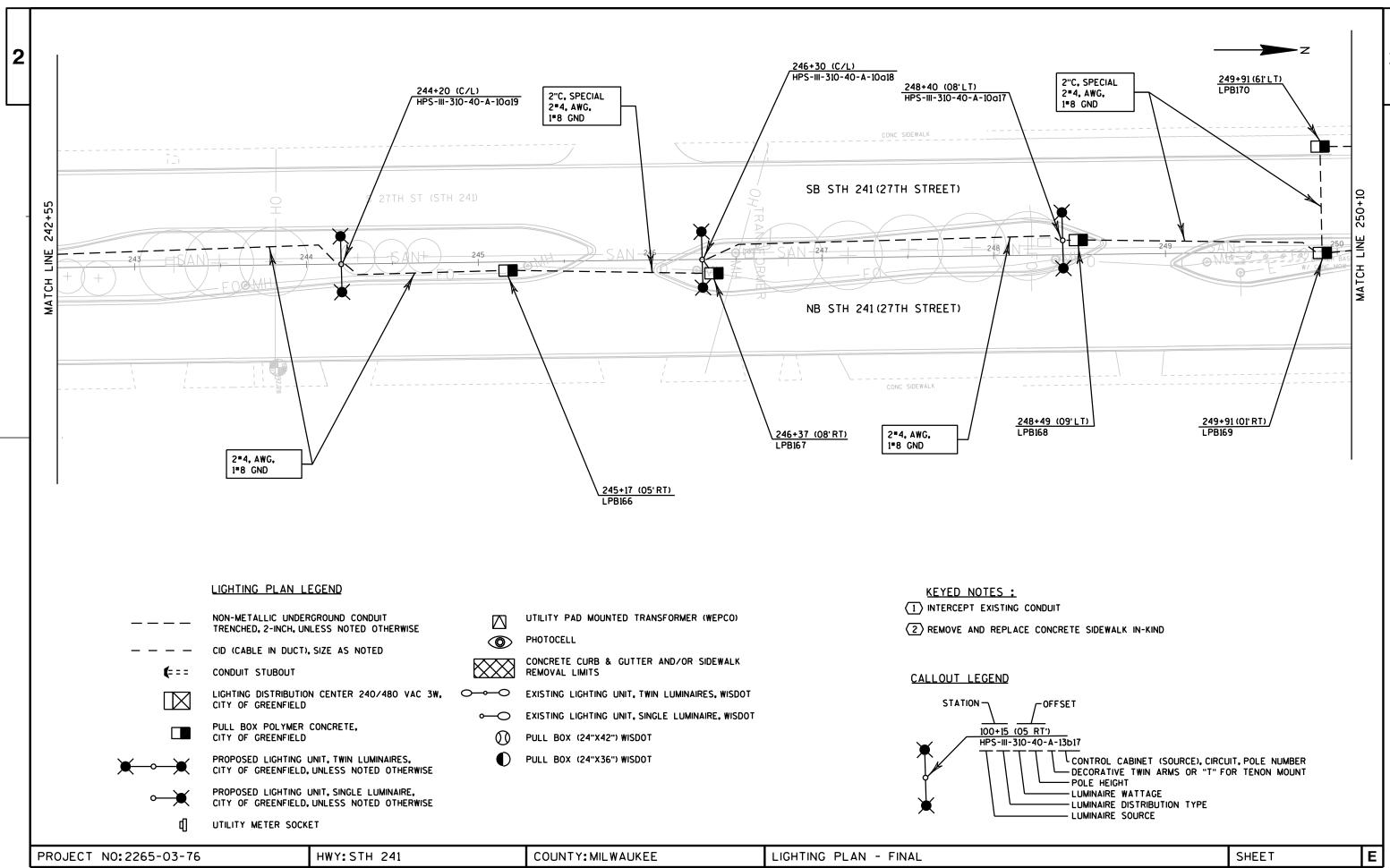
PLOT DATE: 19-APR-2013 16:09

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023620_Ip.dgn

PLOT DATE: 19-APR-2013 16:09

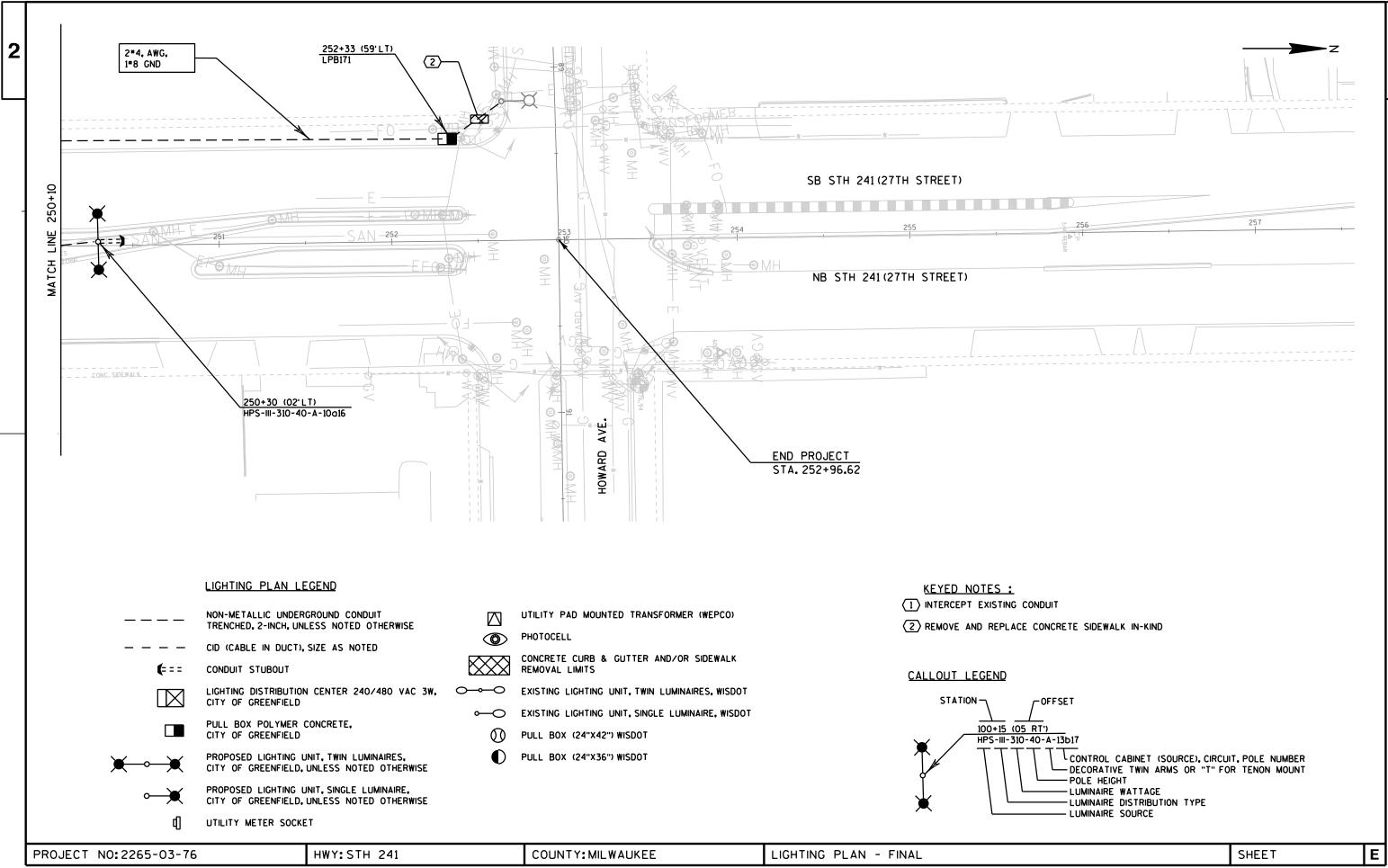
PLOT BY: kprajapati

PLOT NAME:

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42



FILE NAME: J:\318\DGN\CADD Sheets\023621_lp.dgn

PLOT DATE: 19-APR-2013 16:09

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 50:1

WISDOT/CADDS SHEET 42

2

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1) ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.

- 2) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
- 3) TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED AT 25 FT OC IN TAPERS AND 50 FT OC ON TANGENTS OR AS OTHERWISE SHOWN.
- 4) SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
- 5) ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER.

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

₩ FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

F SIGN ON TEMPORARY SUPPORT

○ DELINEATOR FLEXIBLE/TUBULAR MARKER

TYPE A WARNING LIGHT (FLASHING)

B TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)

CONCRETE BARRIER TEMPORARY PRECAST

TYPE C WARNING LIGHT (STEADY BURN)

WORK AREA

TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
TEMPORARY RAISED PAVEMENT MARKER

♦

(TWO WAY REFLECTOR)

FLAGGER, EQUIPPED WITH STOP/SLOW
PADDLE FASTENED ON SUPPORT STAFF

-

DIRECTION OF TRAFFIC

MB

PORTABLE CHANGEABLE MESSAGE BOARD

STAGING

CONTRACTOR SHALL CLOSE MEDIAN IN EITHER THE NORTHBOUND OR SOUTHBOUND LANE DURING NON-PEAK DAYTIME HOURS AS IDENTIFIED IN THE SPECIAL PROVISIONS. ALL LANESS OF TRAFFIC SHALL BE OPEN DURING PEAK HOURS AND OVERNIGHT. IF AN OUTSIDE SOUTHBOUND LANE NEEDS TO BE CLOSED FOR CONTRACTOR'S OPERATION THE SOUTHBOUND MEDIAN AND MIDDLE LANE SHALL REMAIN OPEN TO TRAFFIC. CLOSURE OF THE NORTHBOUND MEDIAN LANE WILL BE ALLOWED. CONTRACTOR SHALL ONLY CLOSE THE NECESSARY LENGTH OF LANE AS NEEDED TO COMPLETE HIS OPERATIONS FOR THAT PARTICULAR DAY OR AS APPROVED BY THE ENGINEER.

2

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE TRAFFIC CONTROL LEGEND, GENERAL NOTES, STAGING AND SUMMARY SHEET E

FILE NAME: J:\318\DGN\CADD Sheets\025001_tc.dgn

PLOT DATE: 19-APR-2013 16:09

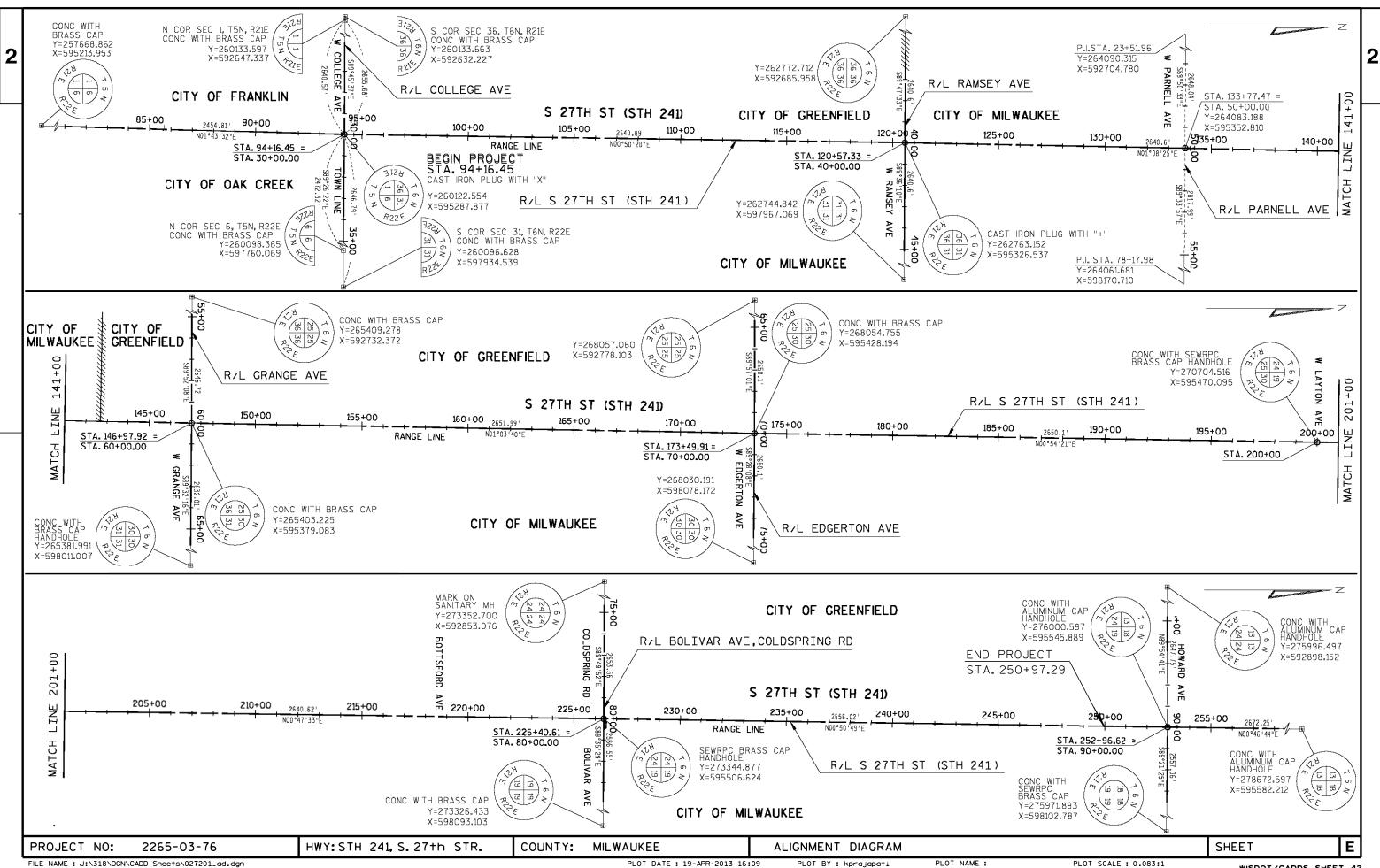
PLOT BY: kprajapati

PLOT NAME:

PLOT NAME:

PLOT SCALE: 10:1

WISDOT/CADDS SHEET 42



DATE 01	MAY13	EST	IMAT	E OF QUAN	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	2265-03-76 QUANTI TY
0010	204. 0150	REMOVING CURB & GUTTER	LF	50. 000	50.000
0020 0030	204. 0155 204. 0195	REMOVING CONCRETE SIDEWALK REMOVING CONCRETE BASES	SY EACH	557. 000 1. 000	557. 000 1. 000
0030	213. 0100	FINISHING ROADWAY (PROJECT) 001.	EACH	1. 000	1. 000
0050	20E 0110	2265-03-76 BASE AGGREGATE DENSE 3/4-INCH	TON	143. 000	142 000
0050	305. 0110	DASE AGGREGATE DENSE 3/4-TINCH	TON	143.000	143. 000
0060	601. 0331	CONCRETE CURB & GUTTER 31-INCH	LF	50.000	50.000
0070 0080	602. 0410 602. 0505	CONCRETE SIDEWALK 5-INCH CURB RAMP DETECTABLE WARNING FIELD	SF SF	1, 622. 000 48. 000	1, 622. 000 48. 000
0000		YELLOW	.	.0.000	.0.000
0090		S FENCE SAFETY	LF	100.000	100.000
0100	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000
0110	625. 0100	TOPSOI L	SY	3, 460. 000	3, 460. 000
0120 0130	627. 0200 628. 1905	MULCHING MOBILIZATIONS EROSION CONTROL	SY EACH	3, 460. 000 1. 000	3, 460. 000 1. 000
0130	628. 1910	MOBILIZATIONS EROSION CONTROL MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	3. 000	3. 000
0150	628. 7010	INLET PROTECTION TYPE B	EACH	10. 000	10. 000
0160	628. 7015	INLET PROTECTION TYPE C	EACH	10. 000	10. 000
0170	629. 0210	FERTILIZER TYPE B	CWT	2. 000	2. 000
0180	630. 0130	SEEDING MIXTURE NO. 30	LB	62.000	62.000
0190 0200	638. 2102 642. 5001	MOVING SIGNS TYPE II FIELD OFFICE TYPE B	EACH EACH	10. 000 1. 000	10. 000 1. 000
	U4Z. 3UU I	TILLD OFFICE TIFE D	EMUN	1.000	1.000
0210	643. 0100	TRAFFIC CONTROL (PROJECT) 001.	EACH	1. 000	1. 000
0220	643. 0300	2265-03-76 TRAFFIC CONTROL DRUMS	DAY	14, 700. 000	14, 700. 000
0230	643. 0410	TRAFFIC CONTROL BARRICADES TYPE II	DAY	1, 480. 000	1, 480. 000
0240	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	1, 290. 000	1, 290. 000
0250	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	2, 130. 000	2, 130. 000
0260	643. 0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	2, 090. 000	2, 090. 000
0270	643. 0800	TRAFFIC CONTROL ARROW BOARDS	DAY	495.000	495.000
0280 0290	643. 0900 650. 8500	TRAFFIC CONTROL SIGNS CONSTRUCTION STAKING ELECTRICAL	DAY LS	2, 170. 000 1. 000	2, 170. 000 1. 000
0270	030. 0300	INSTALLATIONS (PROJECT) 001. 2265-03-76	LJ	1.000	1.000
0300	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL	LS	1.000	1. 000
		CONTROL (PROJECT) 001. 2265-03-76			
0310	652. 0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40	LF	9, 859. 000	9, 859. 000
0000	/F0 0/35	2-I NCH		4 407 222	4 407 222
0320 0330	652. 0605 654. 0105	CONDUIT SPECIAL 2-INCH CONCRETE BASES TYPE 5	LF EACH	4, 426. 000 15. 000	4, 426. 000 15. 000
0340	654. 0103	CONCRETE BASES TYPE 5 CONCRETE BASES TYPE 7	EACH	45. 000	45. 000
0350	655. 0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	20, 820. 000	20, 820. 000
0360	655. 0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	19, 198. 000	19, 198. 000
0370	655.0630	ELECTRICAL WIRE LIGHTING 4 AWG	LF	56, 837. 000	56, 837. 000
0380	690. 0250	SAWING CONCRETE	LF	367.000	367. 000
0390	ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5.	HRS	500.000	500.000
0400	ASP. 1TOG	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	500.000	500.000
0410	SPV. 0060	SPECIAL 101. LAMP DISPOSAL HIGH	EACH	23. 000	23. 000
0410	3F V. 0000	INTENSITY DISCH	EMUN	23.000	23.000
0420	SPV. 0060	SPECIAL 102. REMOVING LIGHTING UNITS	EACH	20.000	20. 000
0430	SPV. 0060 SPV. 0060	SPECIAL 103. PULL BOXES POLYMER CONCRETE SPECIAL 104. LIGHT POLES TWIN ARMS	EACH EACH	72. 000 10. 000	72. 000 10. 000
0440	3F V. 0000	ALUMINUM BLACK COMPLETE UNITS 30-FOOT	EMUN	10.000	10. 000
		250W HPS			

DATE 01 LINE	MAY13	E S	TIMATE	O F Q U A N	T I T I E S 2265-03-76
NUMBER	ITEM	I TEM DESCRIPTION	UNI T	TOTAL	OUANTI TY
0450	SPV. 0060	SPECIAL 105. LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNITS 30-F00T 310W HPS	EACH	20. 000	20. 000
0460	SPV. 0060	SPECIAL 106. LIGHT POLES SINGLE TENON ALUMINUM BLACK COMPLETE UNITS 30-F00T 250W HPS	EACH	15. 000	15. 000
0470	SPV. 0060	SPECIAL 107. LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNITS 40-FOOT 310W HPS	EACH	45. 000	45. 000
0480	SPV. 0060	SPECIAL 108. FURNISHING LIGHT POLES TWIN ARMS AL BLACK COMPLETE UNITS 30-FT 250W HPS	EACH	2. 000	2. 000
0490	SPV. 0060	SPECIAL 109. FURNISHING LIGHT POLES TWIN ARMS AL BLACK COMPLETE UNITS 40-FT 310W HPS	EACH	3. 000	3. 000
0500	SPV. 0060	SPECIAL 110. DECORATIVE BASE COLLARS FOR 30-FT LIGHT POLES	EACH	39. 000	39. 000
0510	SPV. 0060	SPECIAL 111. DECORATIVE BASE COLLARS FOR 40FT LIGHT POLES	EACH	45. 000	45. 000
0520	SPV. 0060	SPECIAL 112. FURNISHING DECORATIVE BASE COLLARS FOR 30-FT LIGHT POLES	EACH	2. 000	2. 000
0530	SPV. 0060	SPECIAL 113. FURNISHING DECORATIVE BASE COLLARS FOR 40-FT LIGHT POLES	EACH	3. 000	3. 000
0540	SPV. 0060	SPECIAL 114. CONCRETE CONTROL CABINET BASES CITY OF GREENFIELD	EACH	1. 000	1. 000
0550	SPV. 0090	SPECIAL 101. REMOVING ELECTRICAL WIRES FROM CONDUIT	LF	3, 766. 000	3, 766. 000
0560	SPV. 0165	SPECIAL 101. CONCRETE 4-INCH DECORATIVE	SF	3, 910. 000	3, 910. 000

204.0195 REMOVING CONCRETE BASES

SPV.0060.101 LAMP DISPOSAL HIGH INTENSITY DISCHARGE

SPV.0060.102 REMOVING LIGHTING UNITS

SPV.0090.101 REMOVING ELECTRICAL WIRE FROM CONDUIT

	G1 FFFGODI I	0010	0010	2012	0010	
T. O.C. P.T. C. I.	CATEGORY	0010	0010	0010	0010	
LOCATION	ITEM	204.0195	SPV.0060.101	SPV.0060 10	SPV.0090.101	
		REMOVING	LAMP	REMOVING	REMOVING	
		CONCRETE	DISPOSAL	LIGHTING	ELECTRICAL	
		BASES	H.I.D.	UNITS	WIRE FROM	
					CONDUIT	
		EACH	EACH	<u>EACH</u>	LF	COMMENTS
95+10 - 98+35	ELECTRICAL WIRE				325	
96+78, 16' RIGHT	LIGHT POLE		1	1		
98+35, 16' RIGHT	LIGHT POLE		1	11		
117+06 - 119+75	ELECTRICAL WIRE				270	
117+06, 01' LEFT	LIGHT POLE		1	1		
118+40, 15' LEFT	LIGHT POLE		1	1		
121+30 - 122+64	ELECTRICAL WIRE		11.14		135	
122+64, 05' RIGHT	LIGHT POLE		1	1		
142+53 - 146+10	ELECTRICAL WIRE		11.54		360	
142+53, 05' LEFT	LIGHT POLE		1	1	==	
144+41, 16' LEFT	LIGHT POLE		1	1		
147+85 - 150+90	ELECTRICAL WIRE		119		305	
149+30, 17' RIGHT	LIGHT POLE		1	1		
150+90, 10' RIGHT	LIGHT POLE		1	1		
169+51 - 172+65	ELECTRICAL WIRE		11 to 12		315	
169+51, 09' LEFT	LIGHT POLE		1	1		
171+14, 17' LEFT	LIGHT POLE		7	1		
174+40 - 177+99	ELECTRICAL WIRE		2.5		360	
176+10, 16' RIGHT	LIGHT POLE		1	1		
177+99, 09' RIGHT	LIGHT POLE		1	1		
196+08 - 198+90	ELECTRICAL WIRE				285	
196+10, 17' LEFT	LIGHT POLE		2	1		
197+58, 17' LEFT	LIGHT POLE		2	1		
201+25 - 202+55	ELECTRICAL WIRE		2.5		130	
202+55,15' RIGHT	LIGHT POLE		2	1		
208+65 - 209+35	ELECTRICAL WIRE		H I+			WE-ENERGIES
209+35, C/L	LIGHT POLE	1	1134			
209+42 - 215+71	ELECTRICAL WIRE		11.0		629	WE-ENERGIES
209+42, 74' LEFT	LIGHT POLE		H >-			WE-ENERGIES
210+74, 70' LEFT	LIGHT POLE		11 to			WE-ENERGIES
211+96, 70' LEFT	LIGHT POLE		11.6			WE-ENERGIES
213+30, 71' LEFT	LIGHT POLE		H 14			WE-ENERGIES
214+31, 72' LEFT	LIGHT POLE					WE-ENERGIES
215+71. 72' LEFT	LIGHT POLE					WE-ENERGIES
214+55 - 214+70	ELECTRICAL WIRE		H 14			CITY OF MILWAUKEE
214+70, C/L	LIGHT POLE		11 to 12 to			CITY OF MILWAUKEE
210+74, 63' RIGHT	LIGHT POLE					CITY OF MILWAUKEE
211+96, 63' RIGHT	LIGHT POLE		2.5			CITY OF MILWAUKEE
213+30, 63' RIGHT	LIGHT POLE		11.00			CITY OF MILWAUKEE
210+74 - 214+70	ELECTRICAL WIRE					CITY OF MILWAUKEE
222+45 - 225+70	ELECTRICAL WIRE				325	
222+45, 09' LEFT	LIGHT POLE		1	1		
224+10, 17' LEFT	LIGHT POLE		î	1		
227+15 - 230+42	ELECTRICAL WIRE		n II I=		327	
228+73, 16' RIGHT	LIGHT POLE		1	1		
230+42, 08' RIGHT	LIGHT POLE		1	1		

LIGHTING DISTRIBUTION CENTERS - CITY OF GREENFIELD

SPV.0060.114 CONCRETE CONTROL CABINET BASES CITY OF GREENFIELD

	CATEGORY	0020
CABINET	LOCATION	SPV.0060.114
		CONCRETE CONTROL
		CABINET BASES
		CITY OF GREENFIELD
		EACH
6	198+07, 68' LEFT	1
	PROJEC TOTAL	1

LIGHT POLE QUANTITIES

SPV.0060.108 FURNISHING LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNITS 30-FOOT 250W HPS
SPV.0060.109 FURNISHING LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNITS 40-FOOT 310W HPS
SPV.0060.112 FURNISHING DECORATIVE BASE COLLARS FOR 30-FT LIGHT POLES
SPV.0060.113 FURNISHING DECORATIVE BASE COLLARS FOR 40-FT LIGHT POLES

CATEGORY	0030	0030	0030	0030
SYSTEM/	SPV.0060.108	SPV.0060.109	SPV. 0060.112	SPV. 0060.113
CABINET	FURNISHING LIGHT	FURNISHING LIGHT	FURNISHING	FURNISHING
	POLES TWIN ARMS	POLES TWIN ARMS	DECORATIVE	DECORATIVE
	ALUMINUM BLACK	ALUMINUM BLACK	BASE COLLARS	BASE COLLARS
	COMPLETE UNITS	COMPLETE UNITS	FOR 30-FT	FOR 40-FT
	30-FT 250W HPS	40-FT 310W HPS	LIGHT POLES	LIGHT POLES
	EACH	EACH	EACH	EACH
UNDISTRUBTED	2	3	2	3
PROJECT TOTAL	2	3	2	3

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET

FILE NAME: J:\318\DGN\CADD Sheets\030201_lp.dgn

PLOT DATE: 19-APR-2013 16:10

PLOT BY: kprajapati

PLOT NAME:

PLOT NAME:

PLOT SCALE: 1:1

WISDOT/CADDS SHEET 43

654.0105	CONCRETE	BASES	TYPE	5
654.0107	CONCRETE	BASES	TYPE	7

655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (POLE WIRE)

SPV.0060.104 LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNIT 30-FT 250W HPS SPV.0060.105 LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNIT 30-FT 310W HPS

SPV.0060.106 LIGHT POLES SINGLE TENON ALUMINUM BLACK COMPLETE UNIT 30-FT 250W HPS

SPV.0060.107 LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNIT 40-FT 310W HPS

SPV.0060.110 DECORATIVE BASE COLLARS FOR 30-FT LIGHT POLES SPV.0060.111 DECORATIVE BASE COLLARS FOR 40-FT LIGHT POLES

			CATEGORY		0010	0010	0010	0020	0020	0020	0020	0020	0020	
SYSTEM /	SEQUENCE	STATION	OFFSET	BOLT	654.0105	654.0107	655.0610	SPV.0060.104	SPV.0060.105	SPV.0060.106	SPV.0060.107	SPV. 0060.110	SPV. 0060.111	COMMENTS
CABINET	I. D.			PROJECTION	CONCRETE	CONCRETE	WIRE	LIGHT POLES	LIGHT POLES	LIGHT POLES	LIGHT POLES	DECORATIVE	DECORATIVE	
					BASES	BASES	NO. 12	TWIN ARMS	TWIN ARMS	SINGLE TENON	TWIN ARMS	BASE COLLARS	BASE COLLARS	
					TYPE 5	TYPE 7		ALUMINUM BLACK	ALUMINUM BLACK	ALUMINUM BLACK	ALUMINUM BLACK	FOR 30-FT	FOR 40-FT	
								COMPLETE UNIT	COMPLETE UNIT	COMPLETE UNIT	COMPLETE UNIT	LIGHT POLES	LIGHT POLES	
								30-FT 250W HPS	30-FT 310W HPS	30-FT 250W HPS	40-FT 310W HPS			
					EACH	EACH	L.F.	EACH	EACH	EACH	EACH	EACH	EACH	
13	b17	96+78	16' RIGHT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
13	b16	98+35	16' RIGHT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
13	b15	100+16	03' RIGHT	3-INCH		1	260				1		1	
13	b14	101+90	05' RIGHT	3-INCH		1	260				1		1	
13	b13	103+90	C/L	3-INCH		1	260				1		1	
13	b12	106+00	06' LEFT	3-INCH		1	260				1		1	
13	b11	107+85	C/L	3 INCH		1	260				1	-	1	
13	b10	109+85	05' LEFT	3-INCH		1	260				1		1	
13											_			
	Ь9	110+95	95' LEFT	3-INCH	1		120			1	1	1		
13	p8	111+75	01' LEFT	3-INCH		1	260				-		1	
13	b7	113+55	C/L	3-INCH		1	260				1		1	
13	b6	115+40	04' RIGHT	3-INCH		1	260				1		1	
13	b5	117+06	01' RIGHT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
13	b4	118+40	15' LEFT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
13	c18	122+64	05' RIGHT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
13	c19	124+15	01' RIGHT	3-INCH		1	260				1		1	
13	c20	125+87	01' RIGHT	3-INCH		1	260				1		1	
13	c21	127+72	C/L	3-INCH		1	260				1		1	
13	c22	129+73	05' RIGHT	3-INCH		1	260				1		1	
13	c23	131+53	11' LEFT	3-INCH		1	260				1		1	
11	b15	136+75	13' RIGHT	3-INCH		1	260				1		1	
11						1					1		1	
	b14	138+85	05' LEFT	3-INCH			260				-		_	
11	b13	140+95	03' LEFT	3-INCH		1	260				1		1	
11	b12	142+53	05' LEFT	3-INCH			240		1		_	1		EXISTING TYPE 5 BASE
11	b11	144+41	16' LEFT	3-INCH			240		1		_	1		EXISTING TYPE 5 BASE
11	b16	149+30	17' RIGHT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
11	b17	150+92	08' RIGHT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
11	b18	152+75	01' LEFT	3-INCH		1	260				1		1	
11	b19	153+49	90' LEFT	3-INCH	1		240			1		1		
11	b20	154+50	01' LEFT	3-INCH		1	260				1		1	
11	b21	156+25	04' LEFT	3-INCH		1	260				1		1	
11	b22	157+95	04' LEFT	3-INCH		1	260				1		1	
11	b23	159+61	04' LEFT	3-INCH		1	260				1		1	
11	b24	159+86	62' LEFT	3-INCH	1		120			1		1		
6	c20	161+45	04' LEFT	3-INCH		1	260				1		1	
6	c19	163+30	05' LEFT	3-INCH		1	260				1		1	
6	c18	165+40	02' LEFT	3-INCH		1	260				1		1	
6	c17	167+05	104' LEFT	3-INCH	1		120			1		1		
6	c16	167+50	02' LEFT	3-INCH		1	260			_	1	1	1	
- 6	c15	169+51	09' LEFT	3-INCH			240		1			1		TYISTING TYPE 5 DAGE
0									_			1		EXISTING TYPE 5 BASE
0	c14	171+14 176+10	17' LEFT	3-INCH			240 240		1			1		EXISTING TYPE 5 BASE
b	c13		16' RIGHT	3-INCH			240		1			<u>1</u>		EXISTING TYPE 5 BASE
6	c12	177+99	09' RIGHT	3-INCH					1			_		EXISTING TYPE 5 BASE
6	c11	180+09	02' RIGHT	3-INCH		1	260				1		1	
- 6	c10	180+69	86' LEFT	3-INCH	1		120			1		1		
				SUBTOTAL	5	27	10,860	0	13	5	27	18	27	

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET PLOT SCALE: 1:1

FILE NAME : J:\318\DGN\CADD Sheets\030201_lp.dgn PLOT DATE: 19-APR-2013 16:11 PLOT NAME : PLOT BY : kprajapati

LIGHT POLE QUANTITIES

654.0105 CONCRETE BASES TYPE 5 654.0107 CONCRETE BASES TYPE 7 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (POLE WIRE) SPV.0060.104 LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNIT 30-FT 250W HPS SPV.0060.105 LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNIT 30-FT 310W HPS SPV.0060.106 LIGHT POLES SINGLE TENON ALUMINUM BLACK COMPLETE UNIT 30-FT 250W HPS SPV.0060.107 LIGHT POLES TWIN ARMS ALUMINUM BLACK COMPLETE UNIT 40-FT 310W HPS SPV.0060.110 DECORATIVE BASE COLLARS FOR 30-FT LIGHT POLES SPV.0060.111 DECORATIVE BASE COLLARS FOR 40-FT LIGHT POLES

Second S				C) TTCCODU		0010	0010	0010	0000	0000	0000	0000	0000	0020	
California F. F. Particular California Californ	CVCTTDM	CECLENIOE	CT3 TT ON	CATEGORY	DOI T	0010		0010	0020	0200	0020	0020	0020		COLAGNITIC
			STATION	OFFSEI											COMMENTS
Part	CABINEI	т. D.			PROJECTION										
Company Comp								NO. 12							
						TYPE 5	TYPE 7								
1										COMPLETE UNIT			LIGHT POLES	LIGHT POLES	
6									30-FT 250W HPS	30-FT 310W HPS	30-FT 250W HPS	40-FT 310W HPS			
6															
6									EACH		EACH	EACH	EACH		
6 07 18309 81 EGGT 3-1801 1 200 1 1 1 1 1	6	c9	181+89	01' LEFT	3-INCH		1	260				1		1	
6	6	C8	183+79	02' RIGHT	3-INCH		1	260				1		1	
6	- 6						1					1		1	
6	6	c6	188+00	04' RIGHT	3-INCH		1	260				1		1	
6 C) 19403 17 LTT 3-BOX 1 200	6	c5	190+10	C/L	3-INCH		1	260				1		1	
6 C2 191-82 17 LEFT 3-1000 - 1 260 - 1 1 - 1 EXISTING TIVE 5 BASE 6 C2 191-82 17 LEFT 3-1000 - 241 - 1 - 1 - EXISTING TIVE 5 BASE 6 C3 191-82 18 VIRGIT 3 TODO - 241 - 1 - 1 - EXISTING TIVE 5 BASE 6 C3 191-92 10 C4 - 241 - 1 - 1 - EXISTING TIVE 5 BASE 6 C4 19 202-10 C4 - 241 - 1 - 1 - 1 - EXISTING TIVE 5 BASE 6 C4 202-10 C4 C4 202-1	6	C4	192+20	03' LEFT	3-INCH		1	260				1		1	
6 21 397-56 15 REFT 3-NSH 1	6	c 3	194+30	C/L	3-INCH		1	260				1		1	
6 al 20245 15 FIRIM 3-INCH - 240 1 - 1 - 1 - EXISTIN TYPE 5 MACE 6 a2 20540 16 FIRIM 3-INCH 1 - 340 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	6	c2	196+03	17' LEFT	3-INCH		1	260				1		1	EXISTING TYPE 5 BASE
6 02 209-80 16 FINCHT 5-INCH 1 - 340 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- 6	c1	197+58	17' LEFT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
6 83 209-12 CL 3-INSI 1 - 246 1 - 1 - 1 1	6	a1	202+55	15' RIGHT	3-INCH			240	1				1		EXISTING TYPE 5 BASE
6	6	a2	203+80	16' RIGHT	3-INCH	1		240	1				1		
6	6	a3	205+10	C/L	3-INCH	1		240	<u> </u>				1		
6	6	a4	206+40	10' RIGHT	3-INCH	1		240	1				1		
6 87 2094-0 74 LETT 3-NGC - 120 - 1 - EXISTING ELISTE S BASE 6 85 214-95 70 LEFT 3-NGC - 120 - 1 - EXISTING ELISTE ON BRIDE 6 85 9 214-95 70 LEFT 3-NGC - 120 - 1 - EXISTING ELISTE ON BRIDE 6 81 10 214-95 71 LEFT 3-NGC - 120 - 1 - EXISTING ELISTE ON BRIDE 6 81 11 214-95 72 LEFT 3-NGC - 120 - 1 - EXISTING ELISTE ON BRIDE 6 81 11 214-95 72 LEFT 3-NGC - 120 - 1 - 1 - EXISTING THE 6 PASE 6 81 12 214-95 72 LEFT 3-NGC - 120 - 1 - 1 - EXISTING THE 6 PASE 6 81 12 214-95 72 LEFT 3-NGC - 120 - 1 - 1 - EXISTING THE 6 PASE 6 81 12 214-95 72 LEFT 3-NGC - 120 - 1 - 1 - EXISTING THE 6 PASE 6 81 12 214-95 72 LEFT 3-NGC - 120 - 1 - 1 - EXISTING THE 6 PASE 6 81 12 214-95 72 LEFT 3-NGC - 120 - 1 - 1 - EXISTING THE 6 PASE 7 LEFT 3-NGC - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 1 - 240 1 - 2 - 1 - 240 1 - 2 - 1 - 240 1 - 2 - 1 - 240 1 - 2 - 1 - 240 1 - 2 - 1 - 240 1 - 2 - 1 - 240 1 - 2 - 1 - 240 1 - 2 - 1 - 240 1 - 2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	6	a5	207+70	08' RIGHT	3-INCH	1		240	1				1		
6 86 214-74 70 LEFT 3-INC - 120 - 1 - EMISTIVE NI BEIDGE	6	a6	209+10	01' RIGHT	3-INCH			240	11				1		EXISTING TYPE 5 BASE
6	6	a7	209+42	74' LEFT	3-INCH			120			1		1		EXISTING TYPE 5 BASE
6 0.10 213+30 72 LEFT 3-ING4	6	a8	210+74	70' LEFT	3-INCH			120			1				EXISTING BLISTER ON BRIDGE
6 all 21449 72 LET 3-INCH 120 1 - EXISTING TYPE 5 RASE 6 all 214475 72 LET 3-INCH 240 i 1 - EXISTING TYPE 5 RASE 6 all 215471 72 LET 3-INCH 120 1 - EXISTING TYPE 5 RASE 6 all 215471 C.L 3-INCH 1 240 i 1 1 - EXISTING TYPE 5 RASE 6 all 4 215471 C.L 3-INCH 1 240 i 1 1 1 1 1 1 1 1 1	6	a9	211+96	70' LEFT	3-INCH			120			1				EXISTING BLISTER ON BRIDGE
6 812 21475 5 100T 3-1001 240 1 1 1 EXISTIN TRE 5 RASE 6 6 613 215471 72 LEFT 3-1004 1 240 1 1 1 1 1 EXISTIN TRE 5 RASE 6 6 614 215491 C.L 3-1004 1 240 1 1 1 1 1 1 6 6 615 215413 C.L 3-1004 1 240 1 1 1 1 1 1 6 6 616 218432 C.L 3-1004 1 240 1 1 1 1 1 1 6 6 617 215432 C.L 3-1004 1 240 1 1 1 1 1 1 6 6 618 215472 04 RIGHT 3-1004 1 240 1 1 1 1 1 1 1 6 6 619 221415 02 LEFT 3-1004 1 240 1 1 1 1 1 1 1 6 6 619 221415 02 LEFT 3-1004 1 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 620 222445 03 LEFT 3-1004 1 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 621 224415 03 LEFT 3-1004 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 622 223447 04 RIGHT 3-1004 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 622 22445 03 LEFT 3-1004 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 622 223473 16 RIGHT 3-1004 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 622 223473 16 RIGHT 3-1004 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 623 230442 08 RIGHT 3-1004 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 624 231490 17 RIGHT 3-1004 240 1 1 1 1 EXISTIN TRE 5 RASE 6 6 625 233481 07 RIGHT 3-1004 1 260 1 1 1 1 EXISTIN TRE 5 RASE 7 6 6 824 231490 17 RIGHT 3-1004 1 260 1	6	a10	213+30	71' LEFT	3-INCH			120			1				EXISTING BLISTER ON BRIDGE
6	6	a11	214+31	72' LEFT	3-INCH			120			1		1		EXISTING TYPE 5 BASE
6 al4 215-91 C.L 3-INCH 1 240 1 1 1 1 1	6	a12	214+75	5' RIGHT	3-INCH			240	11				1		EXISTING TYPE 5 BASE
6 a15 217+11 C.L 3-INCH 1 240 1 1	6	a13	215+71	72' LEFT	3-INCH			120			1		1		EXISTING TYPE 5 BASE
6 a16 218+32 C.T. 3-INCH 1 240 1 1 1 1 1 1 6 a17 219+32 101/LEFT 3-INCH 1 120 1 1 1 1 1 1	6	a14	215+91	C/L	3-INCH	1		240	1				1		
6 a17 219+23 101 LEFT 3-INCH 1 120 1 1 1 1	- 6	a15	217+11	C/L	3-INCH	1		240	11				1		
6 818 219-72 04' KIGHT 3-INCH 1 240 1 1 1	6	a16	218+32	C/L	3-INCH	1		240	1				1		
6 al9 221+11 02' LEFT 3-INCH 1 240 1 1 1 1 EXISTING TYPE 5 BASE 6 a21 224+10 17' LEFT 3-INCH 240 1 1 1 EXISTING TYPE 5 BASE 6 a21 224+10 17' LEFT 3-INCH 240 1 1 1 EXISTING TYPE 5 BASE 6 a22 228+73 16' RIGHT 3-INCH 240 1 1 1 EXISTING TYPE 5 BASE 6 a23 230+42 08' RIGHT 3-INCH 240 1 1 1 EXISTING TYPE 5 BASE 6 a24 231+90 01' RIGHT 3-INCH 1 260 1 1 1 EXISTING TYPE 5 BASE 6 a25 233+81 01' RIGHT 3-INCH 1 260 1 1 1 1 1 1 1	6	a17	219+23	101' LEFT	3-INCH	1		120			1		1		
6 a20 22445 09 LEFT 3-INCH 240 1 1 EXISTING TYPE 5 BASE 6 a21 22410 17 LEFT 3-INCH 240 1 1 1 EXISTING TYPE 5 BASE 6 a22 22873 16 RIGHT 3-INCH 240 1 1 1 EXISTING TYPE 5 BASE 6 a23 230442 08 RIGHT 3-INCH 240 1 1 1 1 EXISTING TYPE 5 BASE 6 a23 230442 08 RIGHT 3-INCH 1 260 1 1 1 1 EXISTING TYPE 5 BASE 6 a24 23190 01 RIGHT 3-INCH 1 260 1 1 1 1 EXISTING TYPE 5 BASE 7 1 1 1 1 1 1 1 1	6	a18	219+72	04' RIGHT	3-INCH	1		240		1			1		
6 a21 224+10 17 LEFT 3-INCH 240 1 1 EXISTING TYPE 5 BASE 6 a22 228+73 16 RIGHT 3-INCH 240 1 1 1 EXISTING TYPE 5 BASE 6 a23 230+2 08 RIGHT 3-INCH 240 1 1 1 EXISTING TYPE 5 BASE 6 a24 231+90 01 RIGHT 3-INCH 1 260 1 1 1 1 EXISTING TYPE 5 BASE 6 a25 233+81 01 RIGHT 3-INCH 1 260 1 1 1 1 1 1 -	6	a19	221+11	02' LEFT	3-INCH	1		240		1			1		
6	6	a20	222+45	09' LEFT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
6	6	a21	224+10	17' LEFT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
6 a24 231+90 01' RIGHT 3-INCH 1 260 1 260 1 1 1 1 1 1 1 1	6	a22	228+73	16' RIGHT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
6	6	a23	230+42	08' RIGHT	3-INCH			240		1			1		EXISTING TYPE 5 BASE
10	- 6	a24	231+90	01' RIGHT	3-INCH		1	260				1		1	
10 a22 237+90 01 RIGHT 3-INCH 1 260 1 1	6	a25	233+81	01' RIGHT	3-INCH		1	260				1		1	
10	10	a23	235+80	C/L	3-INCH		1	260				1		1	
10 a20 242+10 C/L 3-INCH 1 260 1 1 1 10 a19 244+20 C/L 3-INCH 1 260 1 1 10 a18 246+30 C/L 3-INCH 1 260 1 1 1 10 a17 248+40 08¹ LEFT 3-INCH 1 260 1 1 1 10 a16 250+30 02¹ LEFT 3-INCH 1 260 1 1 1 6 a26 213+24 70¹ RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a27 211+96 70² RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a28 210+74 </td <td>10</td> <td>a22</td> <td>237+90</td> <td>01' RIGHT</td> <td>3-INCH</td> <td></td> <td>1</td> <td>260</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td>	10	a22	237+90	01' RIGHT	3-INCH		1	260				1		1	
10 a19 244+20 C/L 3-INCH 1 260 1 1 1 1 1	10	a21	240+00	C/L	3-INCH		1	260				1		1	
10 a18 246+30 C/L 3-INCH 1 260 1 1 10 a17 248+40 08' LEFT 3-INCH 1 260 1 1 10 a16 250+30 02' LEFT 3-INCH 1 260 1 1 1 6 a26 213+24 70' RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a27 211+96 70' RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a28 210+74 70' RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a28 210+74 70' RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a28 210+74<	10	a20	242+10	C/L	3-INCH		1	260				1		1	
10 a17 248+40 08 ' LEFT 3-INCH 1 260 1 1 2 1 1 1 1 3 1 1 1 3 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 3 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 1	10	a19	244+20	C/L	3-INCH		1	260				1		1	
10 a16 250+30 02' LEFT 3-INCH 1 260 1 1 1 EXISTING BLISTER ON BRIDGE 6 a26 213+24 70' RIGHT 3-INCH 1 EXISTING BLISTER ON BRIDGE 6 a27 211+96 70' RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a28 210+74 70' RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a28 210+74 70' RIGHT 3-INCH 120 1 EXISTING BLISTER ON BRIDGE 6 a28 210+74 70' RIGHT 3-INCH 120 1	10	a18	246+30	C/L	3-INCH		1	260				1		1	
6	10	a17	248+40	08' LEFT	3-INCH		1	260				1		1	
6 a27 211+96 70' RIGHT 3-INCH 120 1 1 EXISTING BLISTER ON BRIDGE 6 a28 210+74 70' RIGHT 3-INCH 120 1 1 EXISTING BLISTER ON BRIDGE 5UBTOTAL 10 18 9,960 10 7 10 18 21 18	10	a16	250+30	02 LEFT	3-INCH_		1	260				1		1	
6 a28 210+74 70' RICHT 3-INCH 120 1 1 EXISTING BLISTER ON BRIDGE SUBTOTAL 10 18 9,960 10 7 10 18 21 18	6	a26	213+24	70' RIGHT	3-INCH			120			1				EXISTING BLISTER ON BRIDGE
SUBTOTAL 10 18 9,960 10 7 10 18 21 18	6	a27	211+96	70' RIGHT	3-INCH			120			1				EXISTING BLISTER ON BRIDGE
	6	a28_	210+74	70' RIGHT	3-INCH			120			1				EXISTING BLISTER ON BRIDGE
PROJECT TOTAL 15 45 20,820 10 20 15 45 39 45				SUBTOTAL		10	18	9,960	10	7	10	18	21	18	
		<u> </u>		PROJECT TOTA	T	15	45	20,820	10	20	15	45	39	45	

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET

FILE NAME : J:\318\DGN\CADD Sheets\030201_lp.dgn PLOT DATE: 19-APR-2013 16:12 PLOT NAME : PLOT SCALE: 1:1 PLOT BY : kprajapati

WISDOT/CADDS SHEET 43

3

3

LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH

652.0605 CONDUIT SPECIAL 2-INCH

	CATEGORY	0010	0010	
SYSTEM /	LOCATION TO LOCATION	652.0225	652.0605	COMMENTS
CABINET		CONDUIT	CONDUIT	
		2-INCH	SPECIAL	
		SCHEDULE 40	2-INCH	
		LF	LF	
13	POLE 13b17 TO POLE 13b16			EXISTING CONDUIT
13	POLE 13b16 TO POLE 13b15	181		EXISTING CONDUIT
13	POLE 13b15 TO POLE 13b14	174		
13	POLE 13b14 TO LPB101	17		
13	LPB101 TO LPB102		102	
13	LPB102 TO POLE 13b13	81		
13	POLE 13b13 TO POLE 13b12	210		
13	POLE 13b12 TO LPB103	62		
13	LPB103 TO LPB 104		105	
13	LPB103 TO LPB 104 LPB104 TO POLE 13b11	18		
13	POLE 13b11 TO POLE 13b10	200		
13	POLE 13b11 TO FOLE 13b10 POLE 13b10 TC LPB 105	10		
13	LPB 105 TO LPB 106		125	
13	LPB 103 TO LPB 107		62	
13		 56		
13	LPB 107 TO POLE 13b9 POLE 13b9 TO STUBOUT WEST	15		
13	LPB 106 TO POLE 13b8	55		
13	POLE 13b8 TO POLE 13b7	180		
13	POLE 13b7 TO LPB 108	76		
13	LPB 108 TO LPB 109		99	
13	LPB 109 TO POLE 13b6	10		
13	POLE 13b6 TO POLE 13b5	166		
13	POLE 13b5 TO POLE 13b4			EXISTING CONDUIT
13	POLE 13b4 TO LPB 110			EXISTING CONDUIT
13	LPB 110 TO LPB 111	==	68	==
13	LPB 111 TO EXISTING POLE 13b3	100		
13	EXISTING POLE 13c17 TO LPB 113	210		
13	LPB 113 TO LPB 112		78	
13	LPB 112 TO PCLE 13c18	105		
13	POLE 13c18 TO POLE 13c19	151		
13	POLE 13c19 TC LPB 114	7		
13	LPB114 TO LPB115		108	
13	LPB115 TO POLE 13c20	57		
13	POLE 13c20 TO POLE 13c21	185		
13	POLE 13c21 TC LPB 116	94		
13	LPB 116 TO LPB 117		100	
13	LPB117 TO POLE 13c22	9		
13	POLE 13c22 TO POLE 13c23	178		
13	POLE 13c23 TO STUBOUT NORTH	15		
11	STUBOUT SOUTH TC POLE 11b15	15		
11	POLE 11b15 TO POLE 11b14	210		
11	POLE 11b14 TO LPB118	19		
	SUBTOTAL	2,866	847	

LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH

652.0605 CONDUIT SPECIAL 2-INCH

	CATEGORY	0010	0010	201 # #51 #52
YSTEM /	LOCATION TO LOCATION	652.0225	652.0605	COMMENTS
CABINET		CONDUIT	CONDUIT	
		2-INCH	SPECIAL	
		SCHEDULE 40	2-INCH	
		LF	LF	
11	LPB 118 TO LPB 119		91	
11	LPB 119 TO POLE 11b13	138		
11	POLE 11b13 TO LPB120	85		
11	LPB 120 TO LPB 121		125	
11	LPB 121 TO POLE 11b12			EXISTING CONDUIT
11	LPB121 TO POLE 11b11			EXISTING CONDUIT
11	POLE 11b11 TO LPB 123			EXISTING CONDUIT
11	LPB 123 TO LPB 122		43	
11	LPB 122 TO EXISTING POLE 11b10	100		
11	EXISTING POLE 11b9 TO LPB 124	100		
11	LPB 124 TO LPB 125		81	
11	LPB 125 TO POLE 11b16			EXISTING CONDUIT
11	POLE 11b16 TO POLE 11b17			EXISTING CONDUIT
11	POLE 11b17 TO POLE 11b18	183		
11	POLE 11b18 TO LPB 126	40		
11	LPB 126 TO LPB 127		57	
11	LPB 127 TO POLE 11b19	40		
11	POLE 11b19 TO STUBOUT WEST	15		
11	LPB 126 TO LPB 128		115	
11	LPB 128 TO POLE 11b20	20		
11	POLE 11b20 TO POLE 11b21	175		
11	POLE 11b21 TO LPB 129	53		
11	LPB 129 TO LPB 130		110	
11	LPB 130 TO POLE 11b22	7		
11	POLE 11b22 TO POLE 11b23	166		
11	POLE 11b23 TO POLE 11b24		83	
11	FOLE 11b24 TO STUBOUT NORTHWEST	15		
6	STUBOUT SOUTH TO POLE 6c20	15		
6	POLE 6c20 TO POLE 6c19	185		
6	POLE 6c19 TO POLE 6c18	210		
6	POLE 6c18 TO LPB 131	68		
6	LPB 131 TO LPB 132		126	
6	LPB 132 TO LPB 133		83	
6	LPB 133 TO POLE 6c17	50		
6	POLE 6c17 TO STUBOUT WEST	15		
6	LPB 132 TO POLE 6c16	16		
6	POLE 6c16 TO POLE 6c15	201		
6	POLE 6c15 TO POLE 6c14			EXISTING CONDUIT
6	POLE 6c14 TO LPB 134			EXISTING CONDUIT
6	LPB 134 TO LPB 135		43	
6	LPB 135 TO LPB 136		222	
6	LPB 136 TO LPB 137		75	
6	LPB 137 TO POLE 6c13			EXISTING CONDUIT
6	POLE 6c13 TO POLE 6c12			EXISTING CONDUIT
6	POLE 6c12 TO POLE 6c11	210		

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME: J:\318\DGN\CADD Sheets\030201_lp.dgn

PLOT DATE: 19-APR-2013 16:13

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 1:1

WISDOT/CADDS SHEET 43

LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH

652.0605 CONDUIT SPECIAL 2-INCH

	CATEGORY	0010	0010	
SYSTEM /	LOCATION TO LOCATION	652.0225	652.0605	COMMENTS
CABINET		CONDUIT	CONDUIT	
		2-INCH	SPECIAL	
		SCHEDULE 40	2-INCH	
		LF	LF	
6	POLE 6c11 TO LPB 138	18		
6	LPB 138 TO LPB 139		91	
6	LPB 139 TO POLE 6c10	42		
6	POLE 6c10 TO STUBOUT WEST	15		
6	LPB 138 TO LPB 140		129	
6	LPB 140 TO POLE 6c9	33		
6	POLE 6c9 TO POLE 6c8	190		
6	POLE 6c8 TO POLE 6c7	211		
6	POLE 6c7 TO LPB 141	29		
6	LPB 141 TO LPB 142		102	
6	LPB 142 TO POLE 6c6	79		
6	POLE 6c6 TO POLE 6c5	210		
6	POLE 6c5 TO POLE 6c4	210		
6	POLE 6c4 TO LPB 143	76		
6	LPB 143 TO LPB 144		88	
6	LPB 144 TO POLE 6c3	46		
6	POLE 6c3 TO LPB 172	190		
6	POLE 6c2 to LPB 172			EXISTING CONDUIT
6	LPB 172 TO POLE 6c1			EXISTING CONDUIT
6	POLE 6c1 TO LPB 145			EXISTING CONDUIT
6	LPB 145 TO LPB 146		55	
6	LPB 146 TO LPB 147	90		
6	LPB 147 TO LPB 148	130		
6	LPB 148 TO STUBOUT WEST	15		
6	LPB 146 TO CONTROL CABINET 6	10		
6	LPB 147 TO LPB 149		262	
6	LPB 149 TO LPB LPB 150		80	
6	LPB 150 TO POLE 6a1			EXISTING CONDUIT
6	LPB150 TO POLE 6a2	205		
6	POLE 6a2 TO POLE 6a3	130		
6	POLE 6a3 TO LPB 151	18		
6	LPB 151 TO LPB 152		100	
6	LPB 152 TO POLE 6a4	12		
6	POLE 6a4 TO POLE 6a5	130		
6	POLE 6a5 TO POLE 6a6	140		
6	POLE 6a6 TO LPB 153	39		
6	LPB 153 TO LPB 154		93	
6	LPB 154 TO POLE 6a7	10		
6	LPB 154 TO EXISTING JB 1 (ON THE BRIDGE)		140	
6	EXISTING JB 1 TO POLE 6a8			EXISTING EMBEDDED CONDUI
6	POLE 6a8 TO EXISTING JB 2			EXISTING EMBEDDED CONDUI
6	JB 2 TO POLE 6a9			EXISTING EMBEDDED CONDUI
6	POLE 6a9 TO EXISTING JB 3			EXISTING EMBEDDED CONDUI
6	EXISTING JB 3 TO POLE 6a10			EXISTING EMBEDDED CONDUI
6	EXISTING JB 3 TO POLE 6all		101	
6	POLE 6all TO LPB 155	119	101	
	TOPP OUTT TO PED 133	117		

LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH

652.0605 CONDUIT SPECIAL 2-INCH

	CATEGORY	0010	0010	0.01 !! !!! !!
'STEM /	LOCATION TO LOCATION	652.0225	652.0605	COMMENTS
ABINET		CONDUIT	CONDUIT	
		2-INCH	SPECIAL	
		SCHEDULE 40	2-INCH	
		LF	LF	
6	LPB 155 TO LPB 156		80	
6	LPB 156 TO EXISTING PB 31		110	CONNECT TO EXIST. PB
6	EXISTING PB31 TO POLE 6a12	20		
6	LPB 155 TO POLE 6a13	25		
6	LPB 156 TO POLE 6a14	30		
6	POLE 6a14 TO POLE 6a15	120		
6	POLE 6a15 TO POLE 6a16	121		
6	POLE 6a16 TO LPB 157	19		
6	LPB 157 TO LPB 158		116	
6	LPB 158 TO LPB 159		68	
6	LPB 159 TO POLE 6a17	80		
6	POLE 6a17 TO STUBOUT WEST	15		
6	LPB 158 TO POLE 6a18	5		
6	POLE 6a18 TO POLE 6a19	139		
6	POLE 6a19 TO POLE 6a20	134		
6	POLE 6a20 TO POLE 6a21			EXISTING CONDUIT
6	POLE 6a21 TO LPB 161			EXISTING CONDUIT
6	LPB 161 TO LPB 160		55	
6	LPB 160 TO LPB 163		165	
6	LPB 163 TO LPB 162		79	
6	LPB 162 TO POLE 6a22			EXISTING CONDUIT
6	POLE 6a22 TO POLE 6a23			EXISTING CONDUIT
6	POLE 6a23 TO POLE 6a24	148		EXISTING CONDUIT
6	POLE 6a24 TO POLE 6a25	191		
6	POLE 6a25 TO STUBOUT NORTH	15		
10	STUBOUT SOUTH TO POLE 10a23	15		
10	POLE 10a23 TO POLE 10a22	210		
10	POLE 10a22 TO POLE 10a21	210		
10	POLE 10a21 TO LPB 164	49		
10	LPB 164 TO LPB 165		87	
10	LPB 165 TO POLE 10a20	74		
10	POLE 10a20 TO POLE 10a19	210		
10	POLE 10a19 TO LPB 166	97		
10	LPB 166 TO LPB 167		120	
10	LPB 167 TO POLE 10a18	7		
10	POLE 10a18 TO POLE 10a17	210		
10	POLE 10a17 TO LPB 168	9		
10	LPB 168 TO LPB 169		142	
10	LPB 169 TO POLE 10a16	39		
10	POLE 10a16 TO STUBOUT NORTH	15		
10	LPB 169 TO LPB 170		62	
10	LPB 170 TO LPB 171	242		
10	LPB 170 TO EXISTING POLE 10a15	40		
	SUBTOTAL	2,489	1,084	
	PROJECT TOTAL	9,859	4,426	

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME: J:\318\DGN\CADD Sheets\030201_lp.dgn

PLOT DATE: 19-APR-2013 16:13 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 1:1 WISDOT/CADDS SHEET 43

LIGHTING WIRE QUANTITIES

655.0620 ELECTRICAL WIRE LIGHTING 8 AWG 655.0630 ELECTRICAL WIRE LIGHTING 4 AWG

		CATEGORY		0010	0010
SYSTEM /	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620	655.0630
CABINET				8 AWG	4 AWG
			LF	LF	LF
13	b	EXISTING POLE 13b3 TO LPB 111 TO LPB 110 TO POLE 13b4	268	288	556
13	b	POLE 13b4 TO POLE 13b5	210	220	430
13	b	POLE 13b5 TO POLE 13b6	166	176	342
13	b	POLE 13b6 TO LPB 109 TO LPB 108 TO POLE 13b7	185	205	390
13	b	POLE 13b7 TO POLE 13b8	180	190	370
13	b	POLE 13b8 TO LPB 106 TO LPB 107 TO POLE 13b9	173	193	366
13	b	POLE 13b8 TO LPB 106 TO LFB 105 TO POLE 13b10	190	210	400
13	b	POLE 13b10 TO POLE 13b11	200	210	410
13	b	POLE 13b11 TO LPB 104 TO LPB 103 TO POLE 13b12	185	205	390
13	b	POLE 13b12 TO POLE 13b13	210	220	430
13	b	POLE 13b13 TO LPB 102 TO LPB 101 TO POLE 13b14	200	220	420
13	b	POLE 13b15 TO POLE 13b16	174	184	358
13	D	POLE 13b16 TO POLE 13b17	181	191	372
13	c	EXISTING POLE 13c17 TO LPB 113 TO LPB 112 TO POLE 13c18	393	413	806
13	c	POLE 13c18 TO POLE 13c19	151	161	312
13	c	POLE 13c19 TO LPB 114 TO LPB 115 TO POLE 13c20	172	192	364
13	c	POLE 13c20 TO POLE 13c21	185	195	380
13	C C	POLE 13c21 TO LPB 116 TO LPB 117 TO POLE 13c22	203	223	426
13	d	POLE 13c22 TO POLE 13c23	178	188	366
11	ь	EXISTING POLE 11b10 TO LPB 122 TO LPB 123 TO POLE 11b11	313	333	646
11	ь	POLE 11b11 TO LPB 121 TO POLE 11b12	190	200	390
11	ь	POLE 11b12 TO LPB 121 TO LPB 120 TO POLE 11b13	158	178	336
11	ь	POLE 11b13 TO LPB 119 TO LPB 118 TO POLE 11b14	248	268	516
11	ь	POLE 11b14 TO POLE 11b15	210	220	430
11	b	EXISTING POLE 11b9 TO LPB 124 TO LPB 125 TO POLE 11b16	316	336	642
11	ь	POLE 11b16 TO POLE 11b17	160	170	330
11	b	POLE 11b17 TO POLE 11b18	183	193	376
11	b	POLE 11b18 TO LPB 126 TO LPB 127 TO POLE 11b19	137	157	294
11	b	POLE 11b18 TO LPB 126 TO LPB 128 TO POLE 11b20	175	195	370
11	b	POLE 11b20 TO POLE 11b21	175	185	360
11	b	POLE 11b21 TO LPB 129 TO LPB 130 TO POLE 11b22	170	190	360
11	b	POLE 11b22 TO POLE 11b23	166	176	342
11	b	POLE 11b23 TO POLE 11b24	83	93	176
6	C	CONTROL CABINET 6 TO LPB 146 TO LPB 145 TO POLE 6c1	125	145	540
6	C	POLE 6c1 TO LPB 172 TO POLE 6c2	160	170	660
6		POLE 6c2 TO LPB 172 TO POLE 6c3	173	183	712
6	C	POLE 6c3 TO LPB 144 TO LPB 143 TO POLE 6c4	210	230	880
6	C	POLE 6c4 TO POLE 6c5	210	220	860
- 6	С	POLE 6c5 TO POLE 6c6 SUBTOTAL	210	220 8.146	860 17.968

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME: J:\318\DGN\CADD Sheets\030201_ip.dgn

PLOT DATE: 19-APR-2013 16:14 PLOT BY: kprajapati PLOT NAME: PLOT SCALE: 1:1

WISDOT/CADDS SHEET 43

LIGHTING WIRE QUANTITIES

655.0620 ELECTRICAL WIRE LIGHTING 8 AWG

655.0630	ELECTRICAL.	WIRE	LIGHTING	4	25473
055.0050		AATIO	TIOUT III	-	

		CATEGORY		0010	0010
SYSTEM /	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620	655.0630
CABINET				8 AWG	4 AWG
6	~	POLE 6c6 TO LPB 142 TO LPB 141 TO POLE 6c7	210	230	LF 880
6	C	FOLE 6C6 TO LPB 142 TO LPB 141 TO FOLE 6C7	210	221	864
6	c	POLE 6c8 TO POLE 6c9	190	200	780
6	C	POLE 6c9 TO LPB 140 TO LPB 138 TO LPB 139 TO POLE 6c10	295	320	1,230
6	C	POLE 6c9 TO LPB 140 TO POLE 6c11	180	200	760
6	C	POLE 6c11 TO POLE 6c12	210	220	860
6	C	POLE 6c12 TO POLE 6c13	190	200	780
6	C	POLE 6c13 TO LPB 137 TO LPB 136 TO LPB 135 TO LPB 134 TO FOLE Fc14	610	640	2,500
6	c	POLE 6c14 TO POLE 6c15	160	170	660
6	c	POLE 6c15 TO POLE 6c16	201	211	824
6	c	POLE 6c16 TO LPB 132 TO LPB 133 TO POLE 6c17	149	169	636
6	c	POLE 6c16 TO LPB 132 TO LPB 131 TO POLE 6c18	210	230	880
6	С	POLE 6c18 TO POLE 6c19	210	220	860
6	c	POLE 6c19 TO POLE 6c20	185	195	760
6	c	CONTROL CABINET 6 TO LPB 146 TO LPB 148	230	250	960
6	a	CONTROL CABINET 6 TO LPB 146 TO LPB 147 TO LPB 149 TO LPB 150 TO POLE 6a1	522	552	2,148
6	а	POLE 6a1 TO LPB 150 TO POLE 6a2	125	135	520
6	а	POLE 6a2 TO POLE 6a3	130	140	540
6	a	POLE 6a3 TO LPB 151 TO LPB 152 TO POLE 6a4	130	150	560
6	а	POLE 6a4 TO POLE 6a5	130	140	540
6	а	POLE 6a5 TO POLE 6a6	140	150	580
6	а	POLE 6a6 TO LPB 153 TO LPB 154 TO POLE 6a7	142	162	608
6	а	POLE 6a7 TO LPB 154 TO POLE 6a8	150	170	640
6	a	POLE 6a8 TO POLE 6a9	130	140	540
6	а	POLE 6a9 TO POLE 6a10	150	160	620
6	a	POLE 6a10 TO POLE 6a11	100	110	420
6	а	POLE 6a10 TO LPB 155 TO LPB 156 TO EXISTING PB 31 TO POLE 6a12	320	340	1,320
6	а	POLE 6b12 TO EXISTING PB 31 TO EXISTING PB 32 TO POLE 6a26	220	230	900
6	а	POLE 6a26 TO POLE 6b27	130	140	540
6	а	POLE 6a27 TO POLE 6a28	130	140	540
6	а	POLE 6a10 TO LPB 155 TO POLE 6a13	144	164	616
6	а	POLE 6a12 TO LPB 156 POLE 6a14	126	146	544
6	а	POLE 6a14 TO POLE 6a15	120	130	500
6	а	POLE 6a15 TO POLE 6a16	121	131	504
6	а	POLE 6a16 TO LPB 157 TO LPB 158 TO POLE 6a18	140	160	600
6	a	POLE 6a18 TO LPB 158 TO LPB 159 TO POLE 6a17	153	173	652
6	a	POLE 6a18 TO POLE 6a19	139	149	576
6	а	POLE 6a19 TO POLE 6a20	134	144	556
6	а	POLE 6a20 TO POLE 6a21	165	175	680
6	а	POLE 6a21 TO LPB 161 TO LPB 160 TO LPB 163 TO LPB 162 TO POLE 6a22	599	629	2,456
6	а	POLE 6a22 TO POLE 6a23	175	185	720
6	а	POLE 6a23 TO POLE 6a24	148	158	612
6	а	POLE 6a24 TO POLE 6a25	191	201	784
10	а	EXISTING POLE 10a15 TO LPB 171 TO LPB 170 TO LPB 169 TO POLE 10a16	383	408	791
10	а	POLE 10a16 TO LPB 169 TO LPB 168 TO POLE 10a17	190	210	400
10	a	POLE 10a17 TO POLE 10a18	210	220	430
10	a	POLE 10a18 TO LPB 167 TO LPB 166 TO POLE 10a19	224	244	468
10	a	POLE 10a19 TO POLE 10a20	210	220	430
10	а	POLE 10a20 TO LPB 165 TO LPB 164 TO POLE 10a21	210	230	440
10	а	POLE 10a21 TO POLE 10a22	210	220	430
10	а	POLE 10a22 TO POLE 10a23	210	220	430
		SUBTOTAL		11,052	38,869
		PROJECT TOTAL		19,198	56,837

HWY: STH 241 COUNTY: MILWAUKEE PROJECT NO: 2265-03-76 MISCELLANEOUS QUANTITIES SHEET

FILE NAME : J:\318\DGN\CADD Sheets\030201_lp.dgn PLOT DATE: 19-APR-2013 16:15 PLOT NAME: PLOT BY : kprajapati PLOT SCALE : 1:1 WISDOT/CADDS SHEET 43

SPV.0060.103 PULL BOXES POLYMER CONCRETE

		CATEGORY		0020
SYSTEM /	STATION	OFFSET	LABEL	SPV.0060.103
CABINET				PULL BOXES
				POLYMER
				CONCRETE
				EAUFI
13	102+07	10' LEFT	LPB101	1
13	103+09	05' LEFT	LPB102	1
13	106+62	12' LEFT	LPB103	1
13	107+67	02' LEFT	LPB104	1
13	109+95	05' LEFT	LPB105	1
13	112+20	02' LEFT	LPB106	1
13	111+20	64' LEFT	LPB107	1
13	114+31	09' LEFT	LPB108	1
13	115+30	03' LEFT	LPB109	1
13	119+45	15' LEFT	LPB110	1
13	119+67	61' LEFT	LPB111	1
13	121+59	15' RIGHT	LPB112	1
13	121+57	61' LEFT	LPB113	1
13	124+22	01' RIGHT	LPB114	1
13	125+30	01' RIGHT	LPB115	1
13	128+66	05' RIGHT	LPB116	1
13	129+66	09' RIGHT	LPB117	1
11	138+66	06' RIGHT	LPB118	1
11	139+57	06' RIGHT	LPB119	1
11	141+80	09' LEFT	LPB120	1
11	142+36	08' RIGHT	LPB121	1
11	146+00	60' LEFT	LPB122	1
11	146+00	17' LEFT	LPB123	1
11	148+20	65' LEFT	LPB124	1
11	147+91	16' RIGET	LPB125	1
11	153+15	09' LEFT	LPB126	1
11	153+22	66' LEFT	LPB127	1
11	154+30	03' LEFT	LPB128	1
11	156+78	05' LEFT	LPB129	1
11	157+95	04' LEFT	LPB130	1
6	166+04	04' RIGHT	LPB131	1
6	167+34	07' RIGHT	LPB132	1
6	164+24	66' LEFT	LPB133	1
6	172+43	17' LEFT	LPB134	1
6	172+43	60' LEFT	LPB135	1
6	174+65	59' LEFT	LPB136	1
6	174+64	16' RIGHT	LPB137	1
		SUBTOTAL		37

		CATEGORY		0020
SYSTEM / CABINET	STATION	OFFSET	LABEL	SPV.0060.10: PULL BOXES POLYMER CONCRETE
				EACH
6	180+27	05' RIGHT	LPB138	1
6	180+53	60' LEFT	LPB139	1
6	181+56	12' RIGHT	LPB140	1
6	186+19	03' RIGHT	LPB141	1
6	187+21	03' RIGHT	LPB142	1
6	192+96	03' RIGHT	LPB143	1
6	193+84	02' RIGHT	LPB144	1
6	198+20	17' LEFT	LPB145	1
6	198+22	70' LEFT	LPB146	1
6	199+12	71 LEFT	LPB147	1
6	199+35	179' LEFT	LPB148	1
6	201+74	64' LEFT	LPB149	1
6	201+75	16' RIGHT	LPB150	1
6	205+28	00 CL	LPB151	1
6	206+28	11' RIGHT	LPB152	1
6	209+49	05' RIGHT	LPB153	1
6	209+46	88' LEFT	LPB154	1
6	215+50	86' LEFT	LPB155	1
6	215+66	11' LEFT	LPB156	1
6	218+51	01' RIGHT	LPB157	1
6	219+67	03' RIGHT	LPB158	1
6	219+66	65' LEFT	LPB159	1
6	225+68	66' LEFT	LPB160	1
6	225+63	16' LEFT	LPB161	1
6	227+34	17' RIGHT	LPB162	1
6	227+33	62' LEFT	LPB163	1
10	240+49	11' LEFT	LPB164	1
10	241+36	07' LEFT	LPB165	1
10	245+17	05' RIGHT	LPB166	1
10	246+37	08' RIGHT	LPB167	1
10	248+49	09' LEFT	LPB168	1
10	249+91	01' RIGHT	LPB169	1
10	249+91	61' LEFT	LPB170	1
10	252+33	59' LEFT	LPB171	1
6	196+10	17' LEFT	LPB172	1
		SUBTOTAL		35
		PROJECT TOTAL		7.2

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET E

FILE NAME: J:\318\DGN\CADD Sheets\030201_lp.dgn

PLOT DATE: 22-APR-2013 10:49

PLOT BY: kprajapati

PLOT NAME:

PLOT NAME:

PLOT SCALE: 1:1

WISDOT/CADDS SHEET 43

CATEGORY 0010 CONCRETE ITEMS

305.011 601.0331 602.041 602.0505 SPV.0165.101 BASE AGGREGATE 3/4" DENSE CONCRETE CURB & GUTTER 31-INCH CONCRETE SIDEWALK 5-INCH

CURB RAMP DETECTABLE WARNING FIELD YELLOW

CONCRETE 4-INCH DECORATIVE

LOCATION	STATION	305.0110	601.0331	602.0410	602.0505	SPV.0180.101
	PROJECT TOTAL	BASE AGGREGATE	CONCRETE	CONCRETE	CURB RAMP	CONCRETE
		3/4" DENSE	CURB & GUTTER	SIDEWALK	DETECTABLE WARNING FIELD	4-INCH
			31-INCH	5-INCH	YELLOW	DECORATIVE
		TON	LF	SF	SF	SF
MEDIAN	98+35, 16' RT.	3				120
MEDIAN	119+45, 15' LT.	5				200
SW QUADRANT @ RAWSON AVE.	120+20, 70' LT.	5		178	8	
NW QUADRANT @ RAWSON AVE.	120+90, 70' LT.	7		261	16	
NW QUADRANT @ RAWSON AVE.	120+10, 60' LT.	2		91		
NW QUADRANT @ RAWSON AVE.	121+40, 60' LT.	3	I	104		
MEDIAN	121+59, 15' RT.	5				205
MEDIAN	143+05, 5' LT.	-8- -				425
MEDIAN	146+00, 17' LT.	5*				200
SW QUADRANT @ GRANGE AVE.	146+40, 63' LT.	2		94	8	
SW QUADRANT @ GRANGE AVE.	146+50, 73' LT.	4		156	8	
NW QUADRANT @ GRANGE AVE.	147+50, 70' LT.	_ 6		255	8	
NW QUADRANT @ GRANGE AVE.	147+70, 68' LT.	1		22		
MEDIAN	147+91, 16' RT.	5				200
NW QUADRANT @ GRANGE AVE.	147+91, 65' LT.	1		52		
SW QUADRANT @ MALLORY AVE.	153+34, 72' LT.	3		105		
NW QUADRANT @ ABBOTT AVE.	167+18, 73' LT.	3		105		
MEDIAN	172+43, 17' LT.	5				200
MEDIAN	174+64, 16' RT.	5				200
MEDIAN SOUTH OF LAYTON AVE.	198+20, 17' LT.	6				230
MEDIAN NORTH OF LAYTON AVE.	201+75 - 203+90, 16' RT	40				1580
MEDIAN SOUTH OF BOLIVAR AVE.	225+63, 16' LT.	3				135
MEDIAN NORTH OF BOLIVAR AVE.		5				215
SW QUADRANT @ HOWARD AVE.		1		49		
UNDISTRIBUTED		9	50	150		
	PROJECT TOTAL	143	50	1622	48	3910

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET

FILE NAME: J:\318\DGN\CADD Sheets\030201_lp.dgn

PLOT DATE: 19-APR-2013 16:16

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 1:1

WISDOT/CADDS SHEET 43

CATEGORY 0020 EXISTING SIGNS ITEMS

638.2102 MOVING SIGNS TYPE II

CATEGORY	LOCATION	638.2102
		MOVING SIGNS
		TYPE II
		EACH
0020	PROJECT LIMITS	10
	PROJECT TOTAL	10

643.0300	TRAFFIC CONTROL DRUMS
643.0410	TRAFFIC CONTROL BARRICADES TYPE II
643.0420	TRAFFIC CONTROL BARRICADES TYPE III
643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A
643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C
643.0800	TRAFFIC CONTROL ARROW BOARDS
643.0900	TRAFFIC CONTROL SIGNS

	642	. 0300		0410 CADES		0420 CADES	643.	0705 WARNING		0715	643.	0800	643.	0900
	DR	UMS		E II		E III	TYF	ъ А		E C	ARROW	BOARDS	SI	GNS
LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY	EACH	DAY
W. COLLEGE AVE. TO W. RAMSEY AVE.	150	2,250	10	150	8	120	10	150	10	150	2	30	10	150
S. HONEY CREEK DRIVE	10	150	2	30	2	30	4	60	4	60	1	15	4	60
W. RAMSEY AVE. INTERSECTION	20	300	4	60	4	60	8	120	8	120	2	30	8	120
W. RAMSEY AVE. TO W. PARNEL AVE.	65	650	6	60	4	40	8	80	6	60	2	20	10	100
W. PARNEL AVE. TO W. GRANGE AVE.	65	650	6	60	4	40	8	80	6	60	2	20	10	100
W. GRANGE AVE. INTERSECTION	20	200	4	40	4	40	8	80	8	80	2	20	8	80
W. GRANGE AVE. TO W. EDGERTON AVE.	135	2,025	10	150	8	120	10	150	10	150	2	30	10	150
W. EDGERTON AVENUE INTERSECTION	20	300	4	60	4	60	8	120	8	120	2	30	8	120
W. MALLORY AVE.	10	150	2	30	2	30	4	60	4	60	1	15	4	60
W. UPHAM AVE.	10	150	2	30	2	30	4	60	4	60	1	15	4	60
W. ABBOT AVE.	10	150	2	30	2	30	4	60	4	60	1	15	4	60
W. EDGERTON AVENUE TO W. LAYTON AVE	135	2,025	10	150	8	120	10	150	10	150	2	30	10	150
W. HOLMES AVE.	10	150	2	30	2	30	4	60	4	60	1	15	4	60
W. LAYTON AVE. INTERSECTION	20	300	4	60	4	60	8	120	8	120	2	30	8	120
W. LAYTON AVE. TO W. BOLIVAR AVE.	135	2,025	10	150	8	120	10	150	10	150	2	30	10	150
I43/894 OF RAMP	10	150	2	30	2	30	4	60	4	60	1	15	4	60
I43/894 ON RAMP	20	300	4	60	4	60	8	120	8	120	2	30	8	120
BOTTSFORD AVE.	10	150	2	30	2	30	4	60	4	60	1	15	4	60
W. BOLIVAR AVE. INTERSECTION	20	300	4	60	4	60	8	120	8	120	2	30	8	120
W. BOLIVAR AVE. TO W. HOWARD AVE.	135	2,025	10	150	8	120	10	150	10	150	2	30	10	150
SOUTH OF W. HOWARD AVE. INTERSECTION	20	300	4	60	4	60	8	120	8	120	2	30	8	120
PROJECT TOTAL		14,700		1,480		1,290		2,130		2,090		495		2,170

FENCE SAFETY

616.0700.S FENCE SAFETY

CATEGORY	LOCATION	616.0700.S
		FENCE
		SAFETY
		LF
0010	UNDISTRIBUTED	100
	PROJECT TOTAL	100

CATEGORY 0010 EROSION CONTROL ITEMS

628.7010 INLET PROTECTION TYPE B

628.7015 INLET PROTECTION TYPE C

628.1905 MOBILIZATIONS EROSION CONTROL 628.1910 SILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	LOCATION	628.7010 INLET PROTECTION TYPE B	628.7015 INLET PROTECTION TYPE C	628.1905 MOBILIZATIONS EROSION CONTROL	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL
		EACH	EACH	EACH	EACH
0010	PROJECT LIMITS	10	10	1	3
	PROJECT TOTAL	10	10	1	3

ROADWAY ITEMS

213.0100 FINISHING ROADWAY

PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME: J:\318\DGN\CADD Sheets\030201_lp.dgn

PLOT DATE: 19-APR-2013 16:16

PLOT BY: kprajapati

PLOT NAME:

PLOT SCALE: 1:1

WISDOT/CADDS SHEET 43

204.0150 REMOVING CURB & GUTTER
204.0155 REMOVING CONCRETE SIDEWALK

690.0250 SAWING CONCRETE

	LOCATION	STATION	204.0150	204.0155	690.0250
			REMOVING	REMOVING	SAWING
			CURB & GUTTER	CONCRETE	CONCRETE
				SIDEWALK	
CATEGORY 0010	PROJECT TOTAL		LF	SY	LF
	MEDIAN NORTH OF COLLEGE AVE.	98+35, 16' RT.		13	13
	MEDIAN SOUTH OF RAMSEY AVE.	119+45, 15' LT.		22	13
	SW QUADRANT @ RAWSON AVE.	120+20, 70' LT.		20	24
	NW QUADRANT @ RAWSON AVE.	120+90, 70' LT.		29	10
	NW QUADRANT @ RAWSON AVE.	120+10, 60' LT.		10	6
	NW QUADRANT @ RAWSON AVE.	121+40, 60' LT.		12	6
	MEDIAN NORTH OF RAMSEY AVE.	121+59, 15' RT.		23	13
	MEDIAN	143+05,05'LT.		44	40
	MEDIAN SOUTH OF GRANGE AVE.	146+00, 17' LT.		22	13
	SW QUADRANT @ GRANGE AVE.	146+40, 63' LT.		10	5
	SW QUADRANT @ GRANGE AVE.	146+50, 73' LT.		17	16
	NW QUADRANT @ GRANGE AVE.	147+50, 70' LT.		28	23
	NW QUADRANT @ GRANGE AVE.	147+70, 68' LT.		2	10
	MEDIAN NORTH OF GRANGE AVE.	147+91, 16' RT.		22	11
	NW QUADRANT @ GRANGE AVE.	147+91, 65' LT.		6	10
	SW QUADRANT @ MALLORY AVE.	153+34, 72' LT.		12	15
	NW QUADRANT @ ABBOTT AVE.	167+18, 73' LT.		12	16
	MEDIAN SOUTH OF EDGERTON AVE.	172+43, 17' LT.		22	12
	MEDIAN NORTH OF EDGERTON AVE.	174+64, 16' RT.		22	12
	MEDIAN SOUTH OF LAYTON AVE.	198+20, 17' LT.		25	16
	MEDIAN NORTH OF LAYTON AVE.	201+75 - 203+90, 16' RT.		122	16
	MEDIAN SOUTH OF BOLIVAR AVE.	225+63, 16' LT.		15	13
	MEDIAN NORTH OF BOLIVAR AVE.	227+34, 17' RT.		24	14
	SW QUADRANT @ HOWARD AVE.	252+50, 70' LT.		5	10
	UNDISTRIBUTED		50.0	17	30
	PROJECT TOTAL		50	557	367

CATEGORY 0010 RESTORATION ITEMS

625.0100 TOPSOIL
627.0200 MULCHING
629.0210 FERTILIZER TYPE B
630.0130 SEEDING MIXTURE NO. 30

(QUANTITIES BASED ON 3' TRENCH WIDTH)

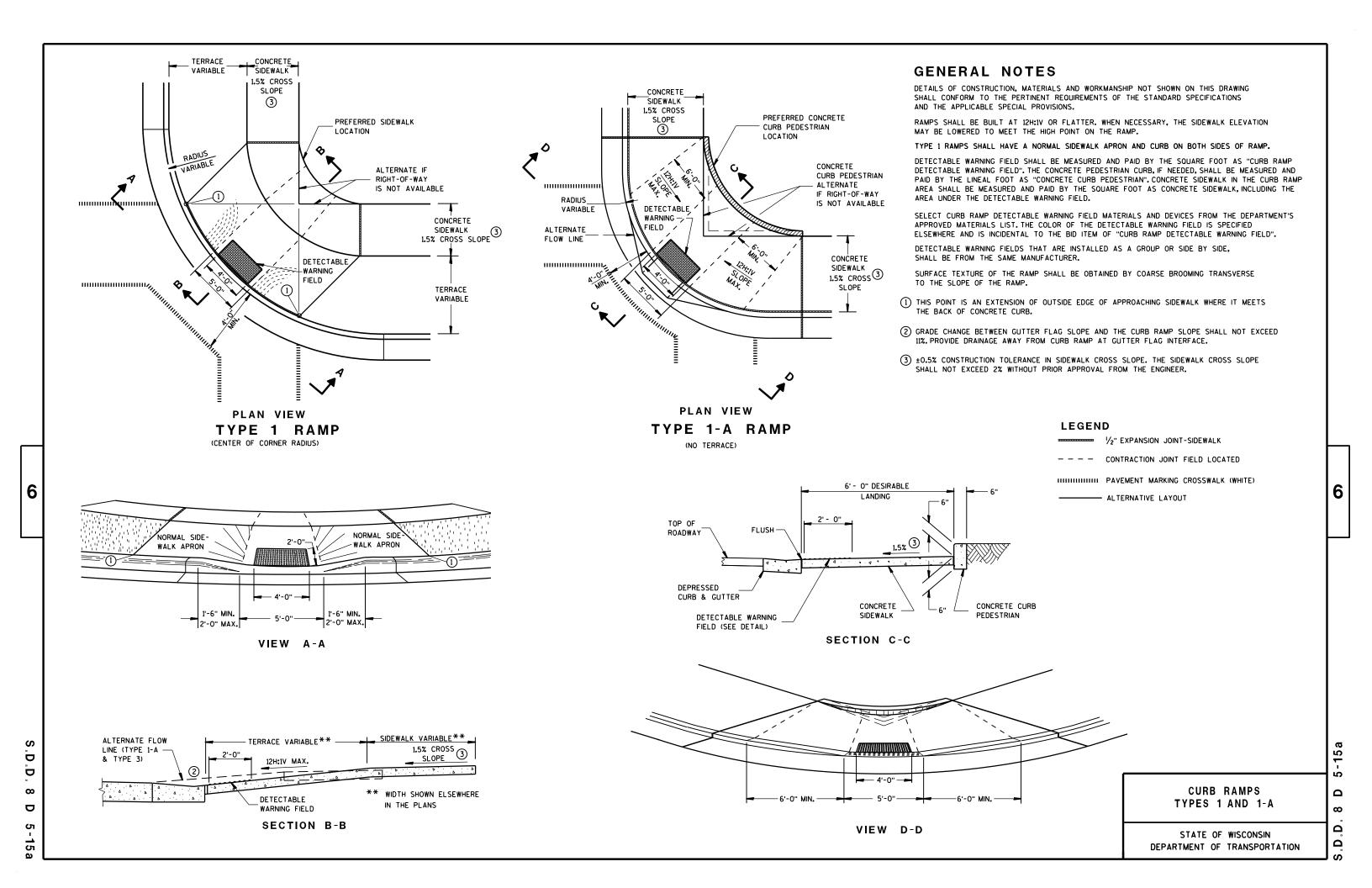
LOCATION	STATION TO STATION	625.0100	627.0200	629.0210	630.0130
	PROJECT TOTAL	TOPSOIL	MULCHING	FERTILIZER	SEEDING
				TYPE B	MIXTURE NO. 3
		SY	SY	CWT	LB
COLLEGE AVE. TO MANGOLD AVE.	98+70 TO 102+14	115	115		
MANGOLD AVE. TO KIMBERLY AVE.	103+00 TO 106+80	127	127		
KIMBERLY AVE. TO S. HONEY CREEK DR.	107+55 TO 109+98	81	81		
S. HONEY CREEK DR. TO RAMSEY AVE.	111+09 TO 114+48	113	113		
и и и и	115+00 TO 117+06	69	69		
RAMSEY AVE. SW QUADRANT	39+00 TO 39+50 RT.	48	48		
RAMSEY AVE. NW QUADRANT	37+87 TO 39+50 LT.	47	47		
RAMSEY AVE. TO GOLDCREST AVE.	122+47 TO 124+25	59	59		
GOLDCREST AVE. TO PARNELL AVE.	125+09 TO 128+85	125	125		
0 0 0	129+52 TO 131+53	67	67		
PARNELL AVE. TO GRANGE AVE.	136+75 TO 138+85	83	83		
и и и и	139+46 TO 141+87	83	83		
GRANGE AVE. SW QUADRANT	58+86 TO 59+50 RT.	42	42		
GRANGE AVE. NW QUADRANT	58+86 TO 59+50 LT.	25	25		
GRANGE AVE. TO MALLORY AVE.	150+92 TO 153+30	82	82		
MALLORY AVE. SW QUADRANT		12	12		
MALLORY AVE. TO W. CLAYTON CREST AVE.	154+18 TO 156+83	88	88		
W. CLAYTON CREST AVE. TO UPHAM AVE.	157+85 TO 159+70	65	65		
W. UPHAM AVE. TO W. ABBOTT AVE.	161+45 TO 166+29	161	161		
W. ABBOTT AVE. NW QUADRANT		17	17		
EDGERTON AVE. SW QUADRANT		26	26		
EDGERTON AVE. NW QUADRANT		23	23		
EDGERTON AVE. TO HOLMES AVE.	177+99 TO 180+44	89	89		
HOLMES AVE. SW QUADRANT		9	9		
HOLMES AVE. TO CARPENTER AVE.		167	167		
CARPENTER AVE. TO BARNARD AVE.		194	194		
BARNARD AVE. TO LAYTON AVE.		83	83		
LAYTON AVE. SW QUADRANT		100	100		
LAYTON AVE. NW QUADRANT		17	17		
LAYTON AVE. TO IH-894		100	100		
н н н	-	118	118		
EB OFFRAMP TO IH-894		48	48		
WB ONRAMP TO IH-894		92	92		
IH-894 TO BOTTSFORD AVE.		112	112		
BOTTSFORD AVE. NW OUADRANT		16	16		
BOTTSFORD AVE. TO BOLIVAR AVE.		93	93		
COLDSPRING ROAD SW & NW QUADRANTS		24	24		
BOLIVAR AVE. TO PLAINFIELD AVE.		118	118		
PLAINFIELD AVE. TO HOWARD AVE.		432	432		
HOWARD AVE. SW QUADRANT		91	91		
PROJECT 2265-03-76		91	91		
ERCTECT 2200-00-10				2	62

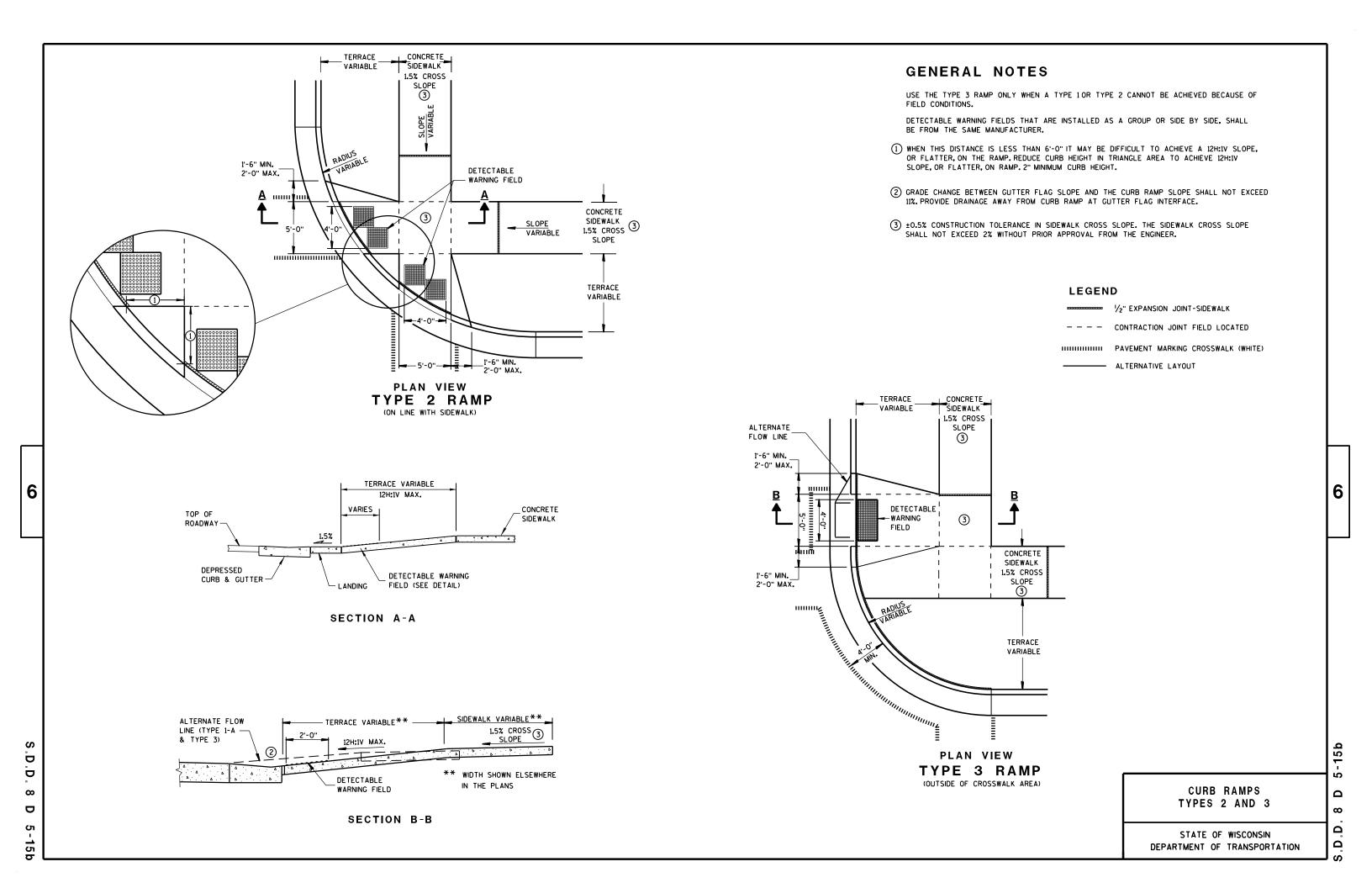
PROJECT NO: 2265-03-76 HWY: STH 241 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET

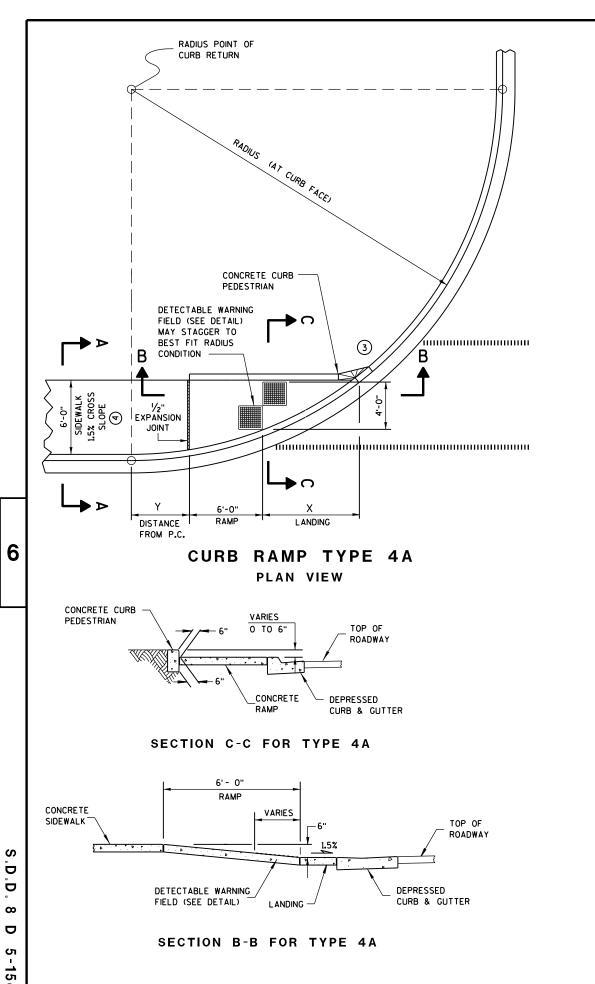
FILE NAME : J:\318\DGN\CADD Sheets\030201_lp.dgn PLOT DATE : 19-APR-2013 16:17 PLOT BY : kprajapati PLOT NAME : PLOT SCALE : 1:1 WISDOT/CADDS SHEET 43

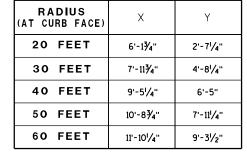
Standard Detail Drawing List

08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPE 4A
08D05-15D	CURB RAMPS TYPE 4B
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D16-10	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-07	CONDUI T
09C02-06	CONCRETE BASES, TYPES 1, 2 & 5
09C08-04	CONCRETE BASE, TYPE 7
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E03-04	NON-FREEWAY LIGHTING UNIT POLE WIRING
10A02-02	IDENTIFICATION PLAQUES LIGHT POLES
10A07-02	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES PHASE-TO-PHASE SYSTEMS
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-01	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE









GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE.

4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS

SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

ISOMETRIC VIEW FOR TYPE 4A

ISOMETRIC VIEW FOR TYPE 4A1

₩ 1/2" EXPANSION JOINT-SIDEWALK

HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

CONTRACTION JOINT FIELD LOCATED

CURB RAMPS

TYPES 4A AND 4A1

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

LEGEND

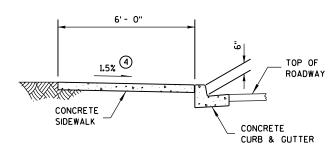
OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

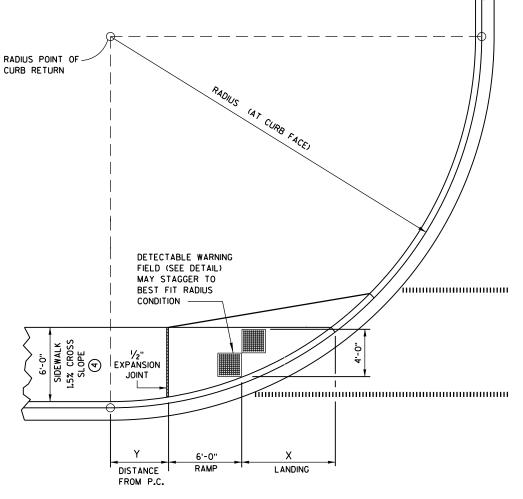
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

SHALL BE FROM THE SAME MANUFACTURER.

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

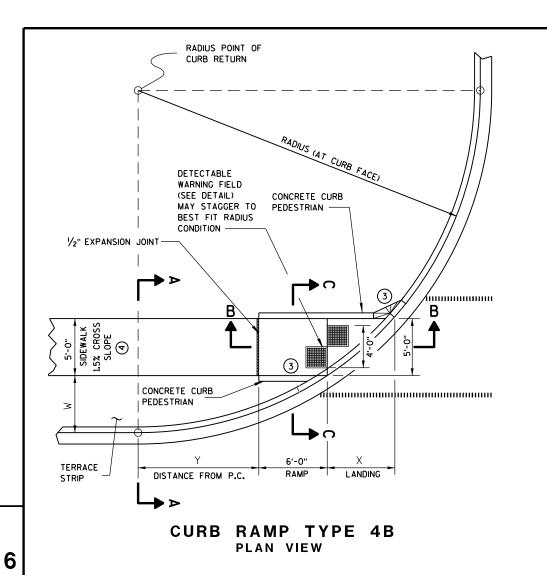


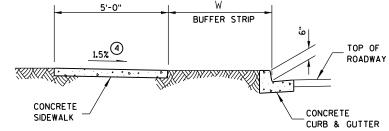
CURB RAMP TYPE 4A1
PLAN VIEW

15c

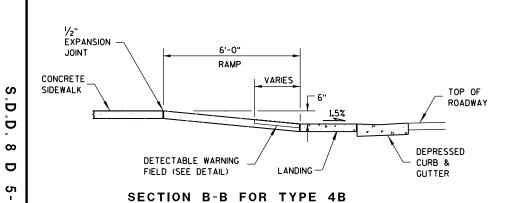
6

D.D. 8 D 5





SECTION A-A FOR TYPE 4B



LEGEND

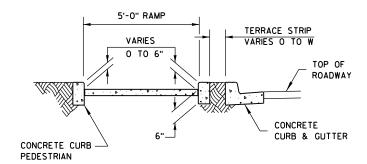
/2" EXPANSION JOINT-SIDEWALK

---- CONTRACTION JOINT FIELD LOCATED

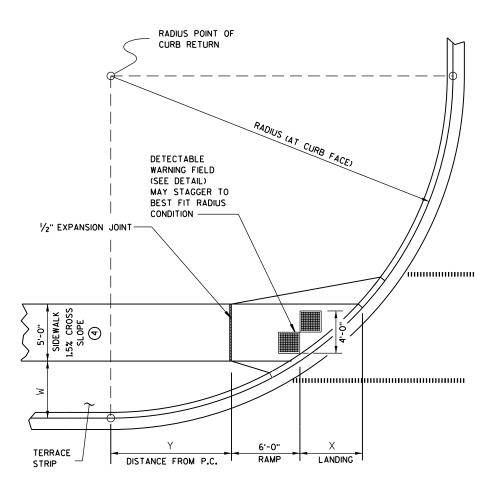
HIHIHIHIH PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS	W = 3' - 0" W = 4'		4' - Ø"	W = 5' - 0"		W = 6' - Ø"		W = 7' - 0"		
(AT CURB FACE)	X	Y	X	Υ	X	Y	X	Y	X	Y
20 FEET	5'-51/2"	4'-61/2"	4'-81/2"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-31/2"	3'-11/2"	9'-21/2"
30 FEET	7'-3¾"	7'-1"	6'-51/2"	8'-11'/2"	5'-91/4"	10'-7"	5'-21/2"	12'-0"	4'-8¾"	13'-3'/4"
40 FEET	8'-91/2"	9'-21/2"	7'-10"	11'-5'/4"	7'-1"	13'-41/2"	6'-5¾"	15'-¾"	5'-111/2"	16'-7'/4"
50 FEET	10'-¾"	11'-3⁄4''	9'-1/4"	13'-7'/4"	8'-21/2"	15'-91/2"	7'-61/2"	17'-9"	6'-11¾"	19'-6'/4"
60 FEET	11'-21/2"	12'-8¾"	10'-¾"	15'-61/2"	9'-21/4"	17'-11¾"	8'-5¾"	20'-1¾"	7'-101/2"	22'-11/2"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4B



CURB RAMP TYPE 4B1
PLAN VIEW

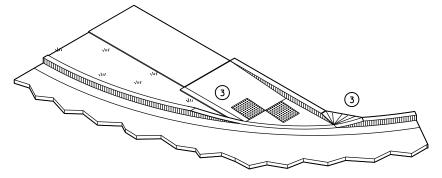
GENERAL NOTES

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

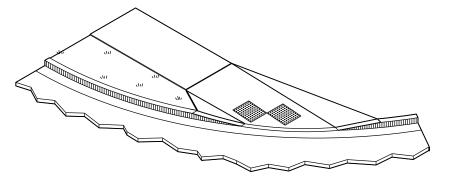
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

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

- (3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.
- (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4B

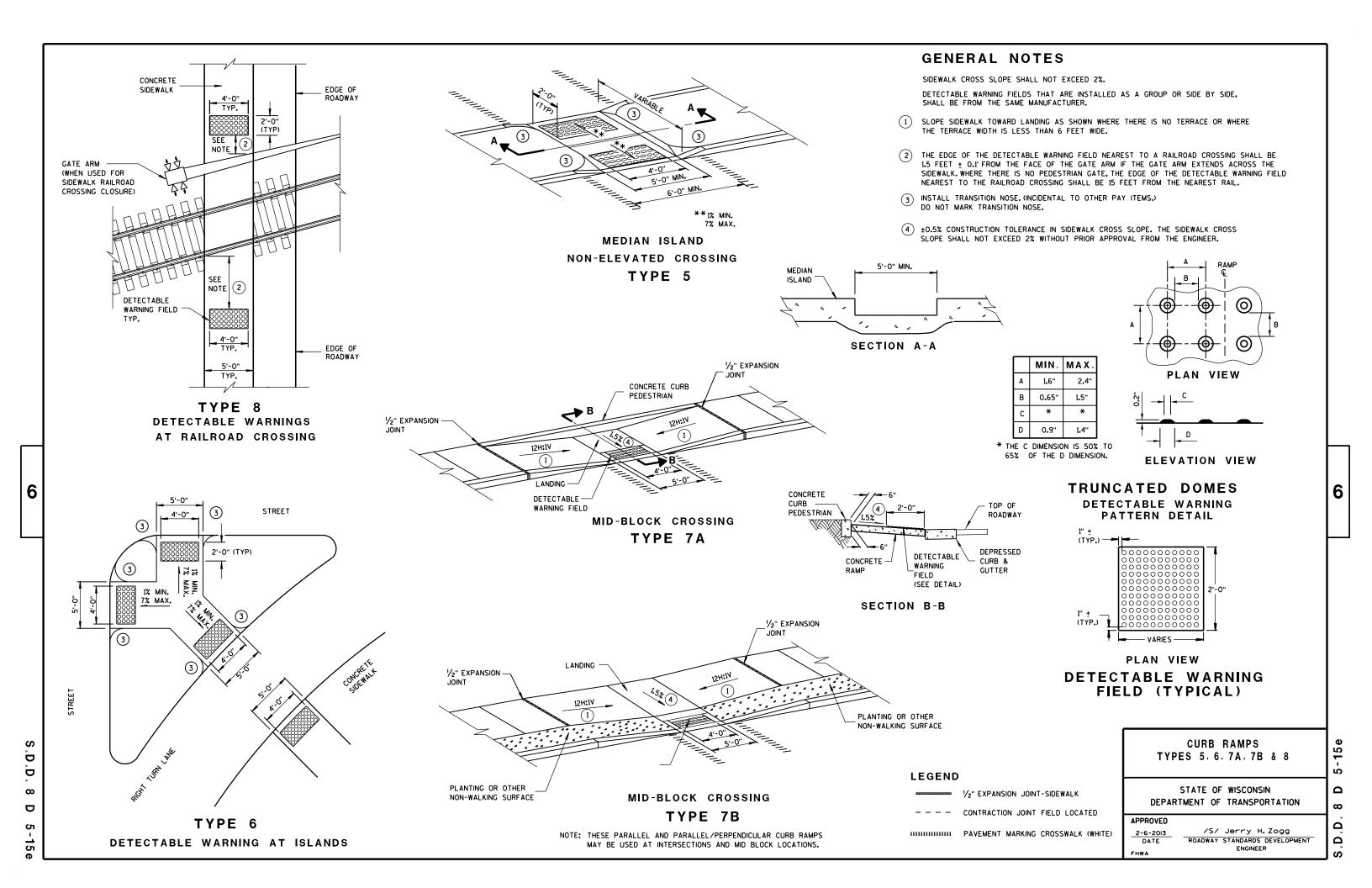


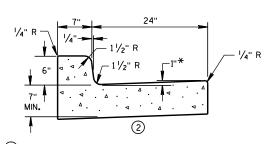
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS Type 4B and 4B1

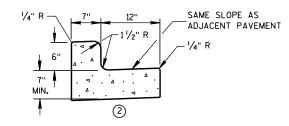
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

D.D. 8 D 5-15d

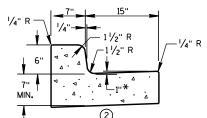




1/4" R CONCRETE GUTTER 24"



CONCRETE CURB & GUTTER 19"



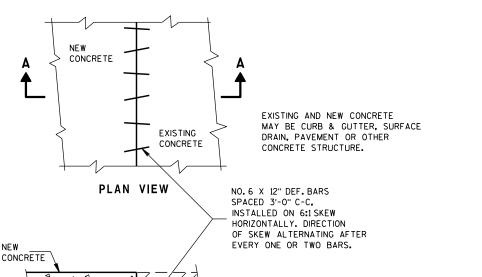
* TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.

POINT WHERE SLOPE CHANGES SAME PAY LIMITS AS CURB & GUTTER PAVEMENT SLOPE PAVEMENT THICKNESS

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

CONCRETE CURB & GUTTER 31"





THE HOLE FOR THE BAR SHALL BE DRILLED TO A DEPTH OF 7"

A TIGHT DRIVEN FIT.

EXISTING

AND TO A DIAMETER TO PROVIDE

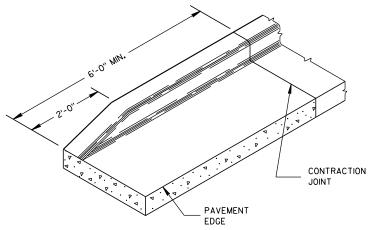
SECTION A-A **PAVEMENT TIES**

P P

1/2 THICKNESS

OF NEW

CONCRETE



END SECTION CURB & GUTTER

GENERAL NOTES

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

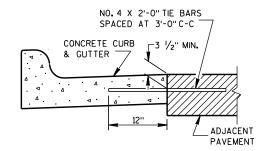
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

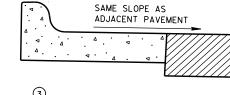
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURB.

- WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUIRED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".
- THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MIMIMUM GUTTER THICKNESS IS
- (3) WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLAN.



TYPICAL TIE BAR LOCATION



HIGH SIDE SECTION

(TYPICAL FOR ALL CURB & GUTTER)

CONCRETE GUTTER, CURB AND **GUTTER AND PAVEMENT TIES**

(For Optional Use in Milwaukee Co. Only)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry Zogg 11/2/2010 ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

Ō Ö \Box 16

6

Δ ∞ Ω Δ





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

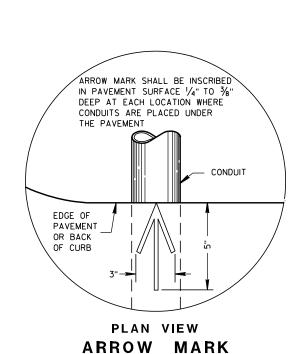
ш

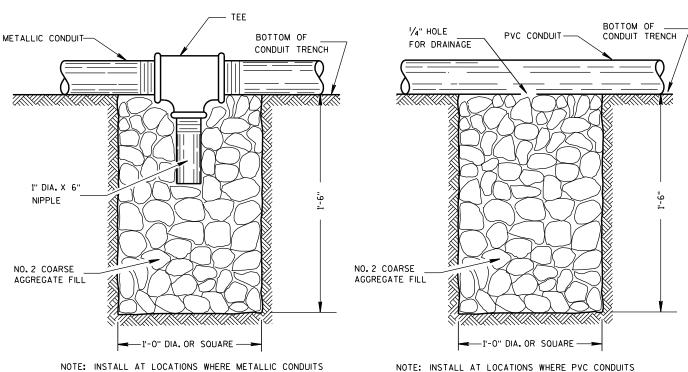
 ∞



6

Ω





DRAIN SUMP FOR METALLIC CONDUIT

CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

ARROW MARK INSCRIBED IN PAVEMENT SURFACE OVER ← OF CONDUIT (BOTH ENDS) NORMAL EDGE ÒF PAVEMENT PAVEMENT **PAVEMENT** OR BACK OF CURB BASE COURSE BACKFILL SLOPE 1/8"/FT. EITHER DIRECTION *DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES CONDUIT, PITCH TO DRAIN WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652,2,2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Balu Ananthanarayanan 10/23/03 STATE ELECTRICAL ENGINEER FOR HWYS

Ö

CONDUIT WITHIN

6" DIA.

ANCHOR RODS SHALL BE

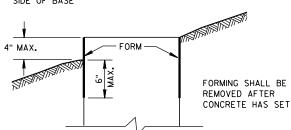
ORIENTED PARALLEL TO

D

Ō

ဖ

C



QUANTITY	CONCRETE BASE TYP			
REQUIREMENTS	1	2	5	
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40	
LBS. OF HOOP BAR STEEL	NONE	23	16	
LBS. OF VERTICAL BAR STEEL	NONE	60	18	

FORMING DETAIL

1'-8"

-CONDUIT

123/4" BOLT

CIRCLE

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

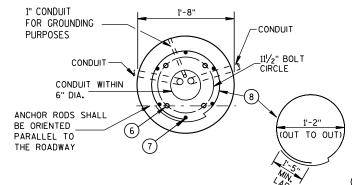
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

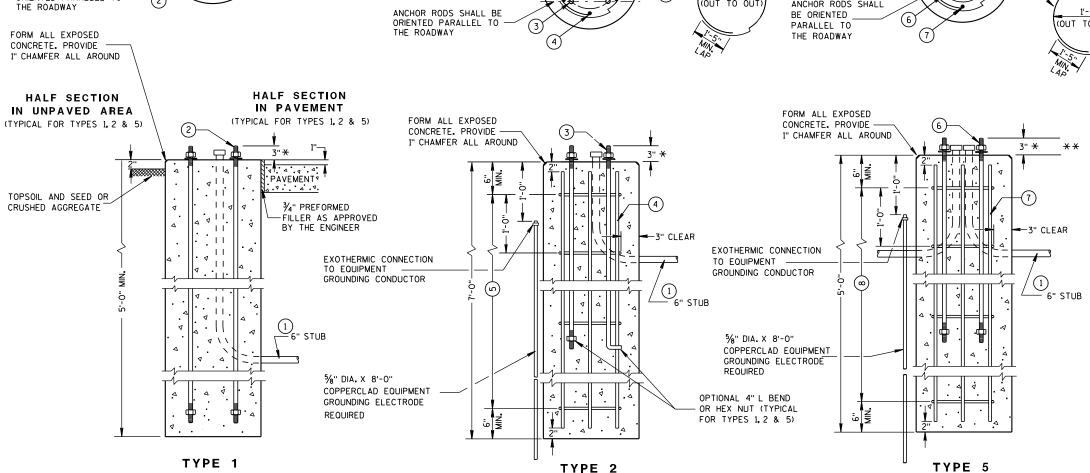
MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

1" CONDUIT FOR GROUNDING -CONDUIT PURPOSES 111/2" BOLT CIRCLE CONDUIT WITHIN 6" DIA. THE ROADWAY





CONCRETE BASES

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USFD.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1FOOT OR LESS.

A NO. 4 AWG. STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD, ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED. THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH, THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

- 1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES, THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
- (2) (4) 1" DIA. X 3'-6" ANCHOR RODS.
- (3) (4) 1" DIA. X 5'-0" ANCHOR RODS.
- (4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.
- (5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.
- (6) (4) 1" DIA. X 3'-6" ANCHOR RODS.
- (7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.
- (8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 3/3/10 /S/ Joanna L. Bush

STATE ELECTRICAL ENGINEER FOR HWYS

C 6 Ω Ω

^{*} ANY ANCHOR ROD PROJECTION SHORTER THAN 23/4" OR LONGER THAN 31/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

 $^{^{\}star\star}$ for nonbreakaway installations, 4 $^{\prime}\!\!/_2$ " * anchor rod projection with the USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE 1" X 60".

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

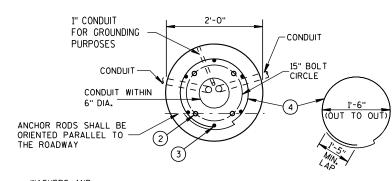
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

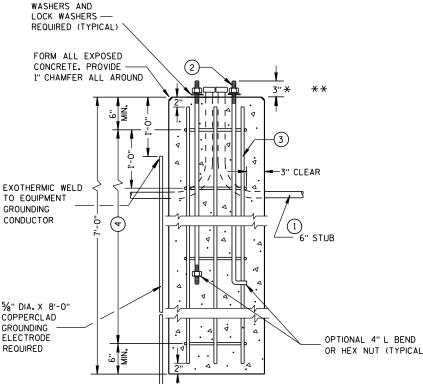
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

- 1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
- (2) (4) 1" DIA. X 5'-0" ANCHOR RODS
- (3) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.
- (4) (7) NO. 4 X 6'-2" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

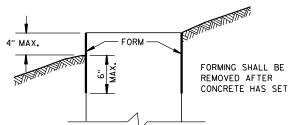




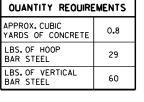


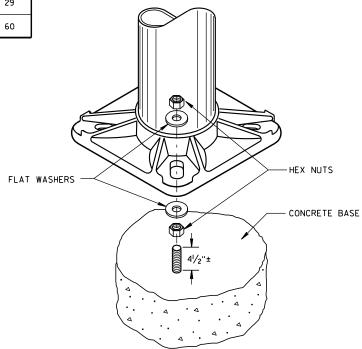
* ANY ANCHOR ROD PROJECTION SHORTER THAN 23/4" OR LONGER THAN 31/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL





NON-BREAKAWAY INSTALLATION
(LEVELING NUT)

CONCRETE BASE, TYPE 7

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/3/IO /S/ Joanna L. Bush

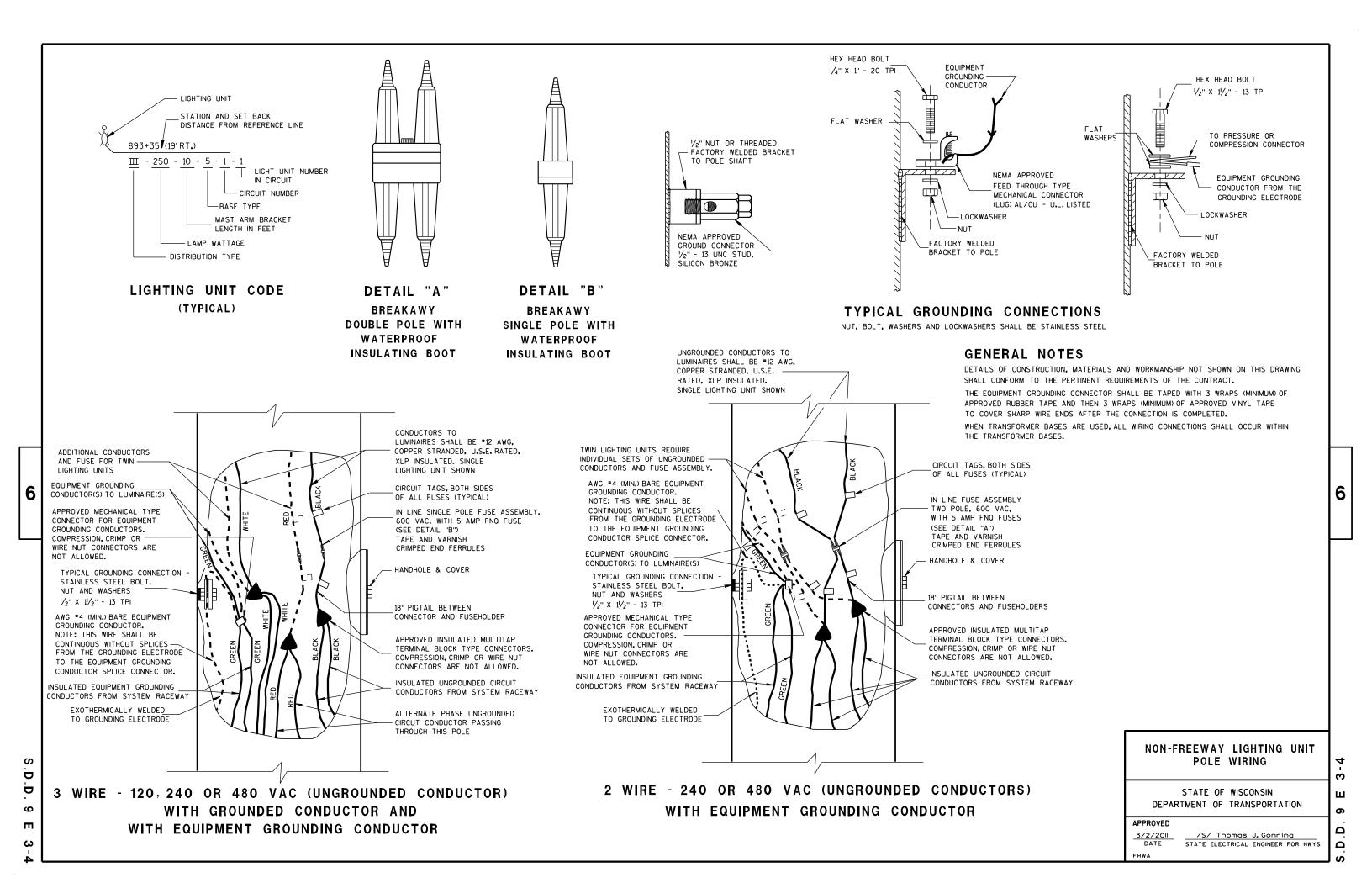
DATE STATE ELECTRICAL ENGINEER FOR HWYS

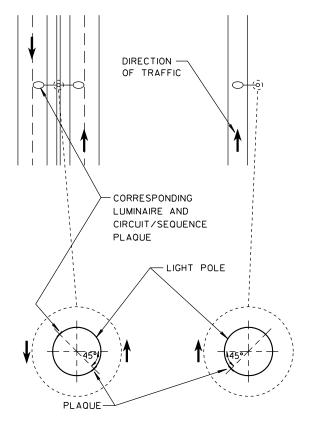
.D.D. 9 C 8-4

6

D.D. 9 C 8-

^{**}FOR NONBREAKAWY INSTALLATIONS, 41/2" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS, RODENT SCREEN REQUIRED.





MEDIAN POLE

SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS LUMINAIRES

1000 WATT - NO PATCH

400 WATT - ORANGE

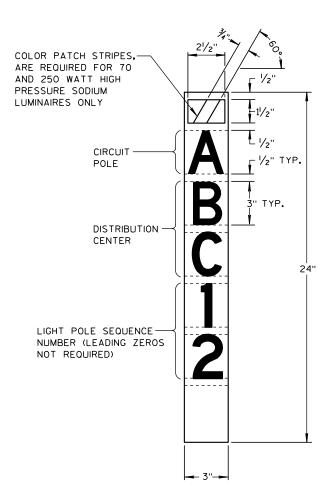
310 WATT - BLUE

250 WATT - ORANGE WITH WHITE STRIPE

200 WATT - RED 150 WATT - GREEN

100 WATT - BROWN

70 WATT - BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE **PLAQUE**

IDENTIFICATION PLAQUES LIGHT POLES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

10/25/2010 /S/ John Corbin DATE STATE ELECTRICAL ENGINEER FOR HWYS

6

2

2

 \triangleleft

Ω

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

SEE GENERAL LIGHT POLE NOTE HANDHOLE ž LINE

TYPICAL WIRING DIAGRAM

PHASE-TO-PHASE DELTA SYSTEM 3-\$ 480VAC 3 WIRE

HANDHOLE FUSE SCHEDULES

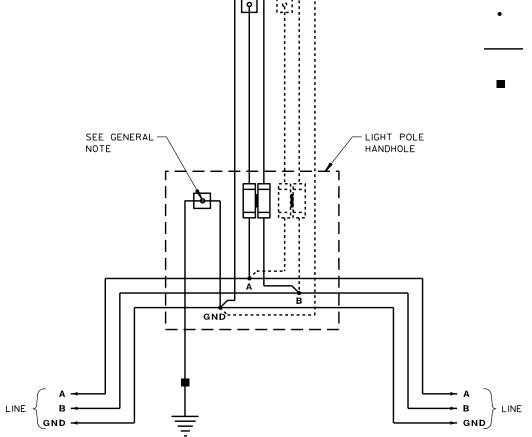
LINE VOLTAGE	BALLAST WATTAGE			
φ - φ	70-200 W	250-400 W		
240 VAC 480 VAC	2P-5 A 2P-5 A	2P-5 A 2P-5 A		

LEGEND

A ,B , X , Y , Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
φ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
———	SINGLE-POLE (1P) FUSE ASSEMBLY
	TWO-POLE (2P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
ıI 	EQUIPMENT GROUNDING ELECTRODE
0	TERMINAL
•	SPLICE

EXOTHERMIC WELD

CONDUCTOR



TYPICAL WIRING DIAGRAM

UNGROUNDED SYSTEM 1-\$\phi\$ 120-120VAC 2 WIRE

ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES PHASE-TO-PHASE SYSTEMS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

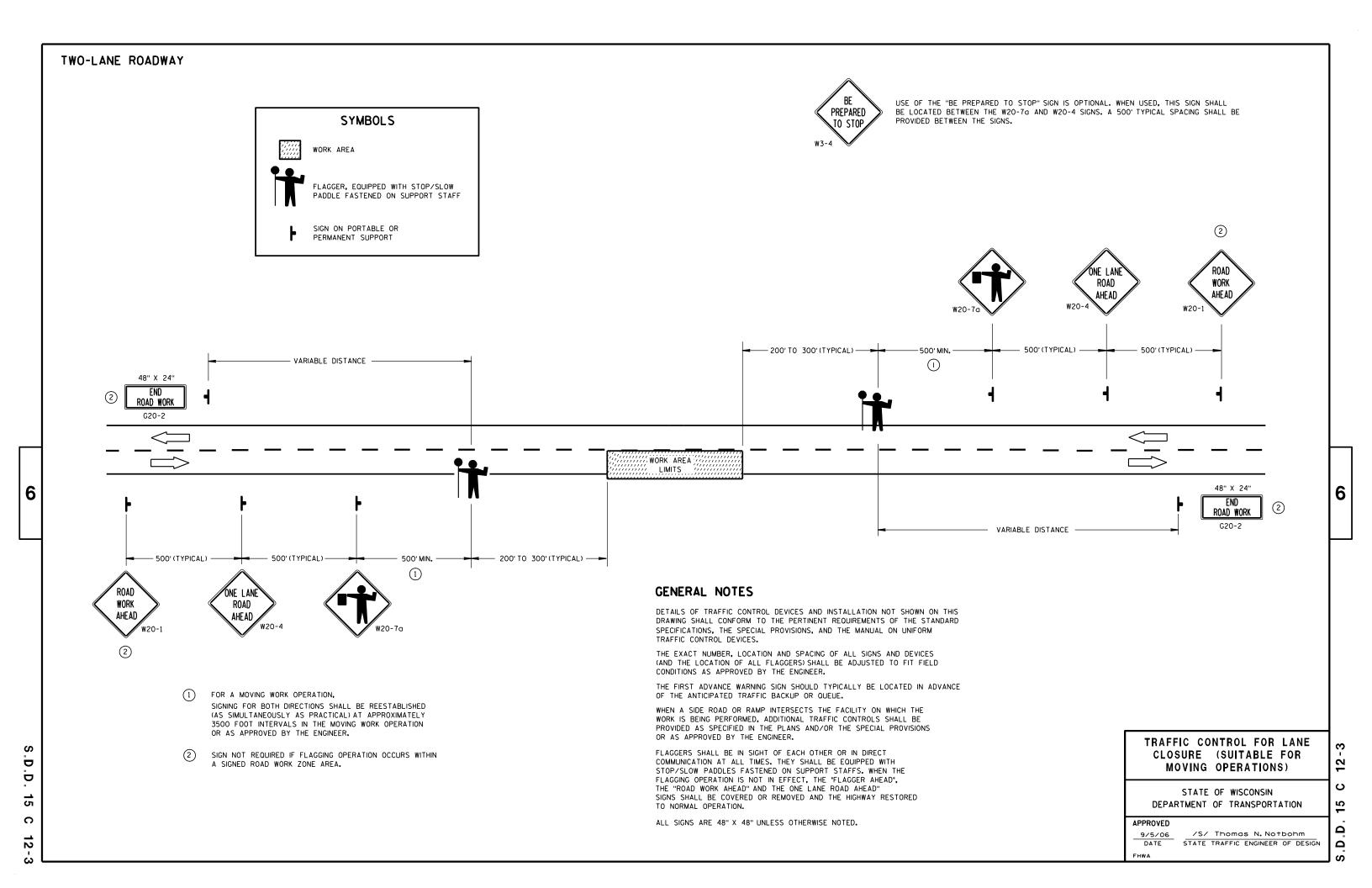
10/25/2010 /S/ John Corbin STATE ELECTRICAL ENGINEER FOR HWYS

6

10

Ω

Δ



LEGEND

- POST WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN
- ✓ DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- → ARROW BOARD
- 8' TYPE III BARRICADE
- * x * REMOVING PAVEMENT MARKING
- □⇒ DIRECTION OF TRAFFIC

GENERAL NOTES:

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

(1) CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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

GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

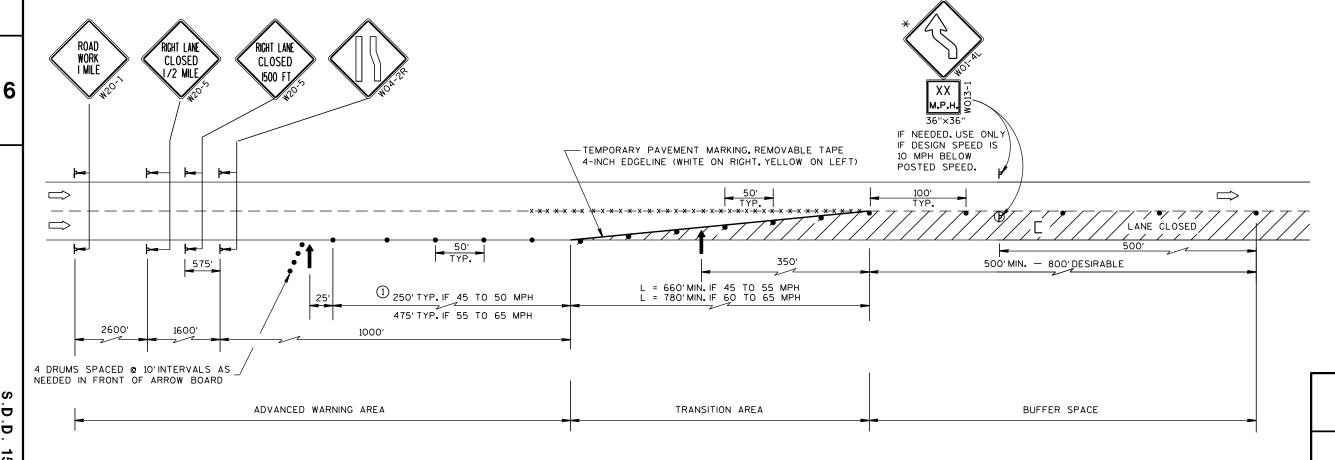
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8-7-95

DATE

/S/ Chester J. Spang
DIRECTOR, OFFICE OF TRAFFIC

6

2

Ω

2

Ω

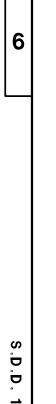
Ω

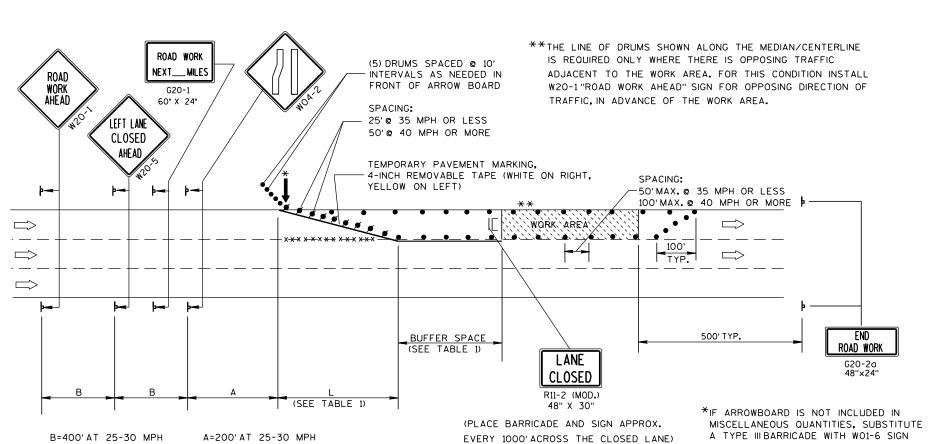
S.D.D. 15 D 12-2



2

Ω





W01-6 48"×24"

IN THE LANE CLOSURE TAPER.

TABLE 1 TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

700'AT 35-40 MPH

1000' AT 45-55 MPH

s	L	BUFFER SPACE			
25	125'	55'			
30	180'	85'			
35	245'	120'			
40	320'	170'			
45	540'	220'			
50	600'	280'			
55	660'	335'			

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

 $L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

350' AT 35-40 MPH

500' AT 45-55 MPH

W = WIDTH OF LANE CLOSURE

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE, FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

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

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE 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.

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

LEGEND

DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)

POST MOUNTED SIGN

ARROW BOAR

TYPE III BARRICADE (8'EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN

□
 DIRECTION OF TRAFFIC FLOW

XXXX REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

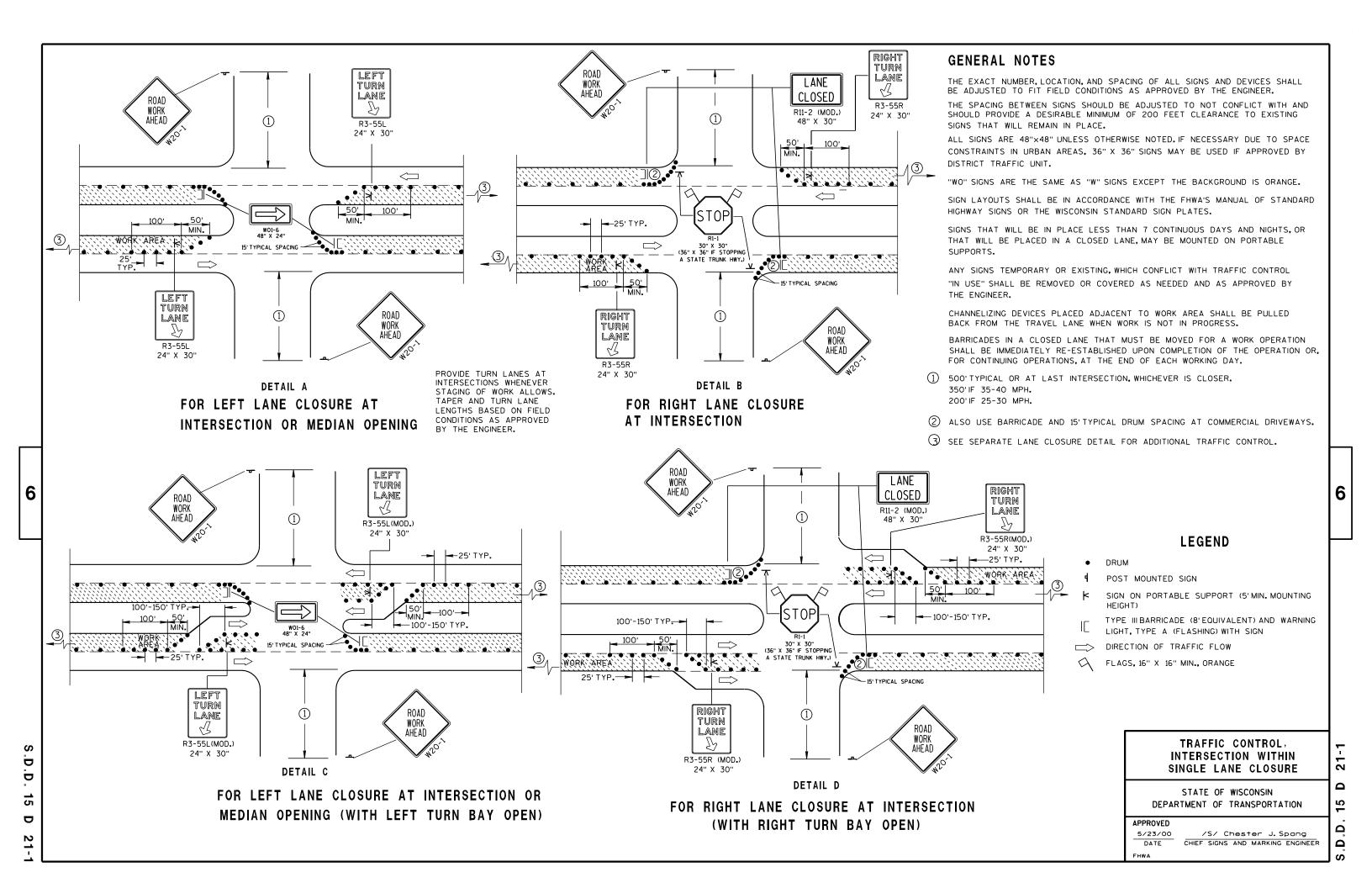
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

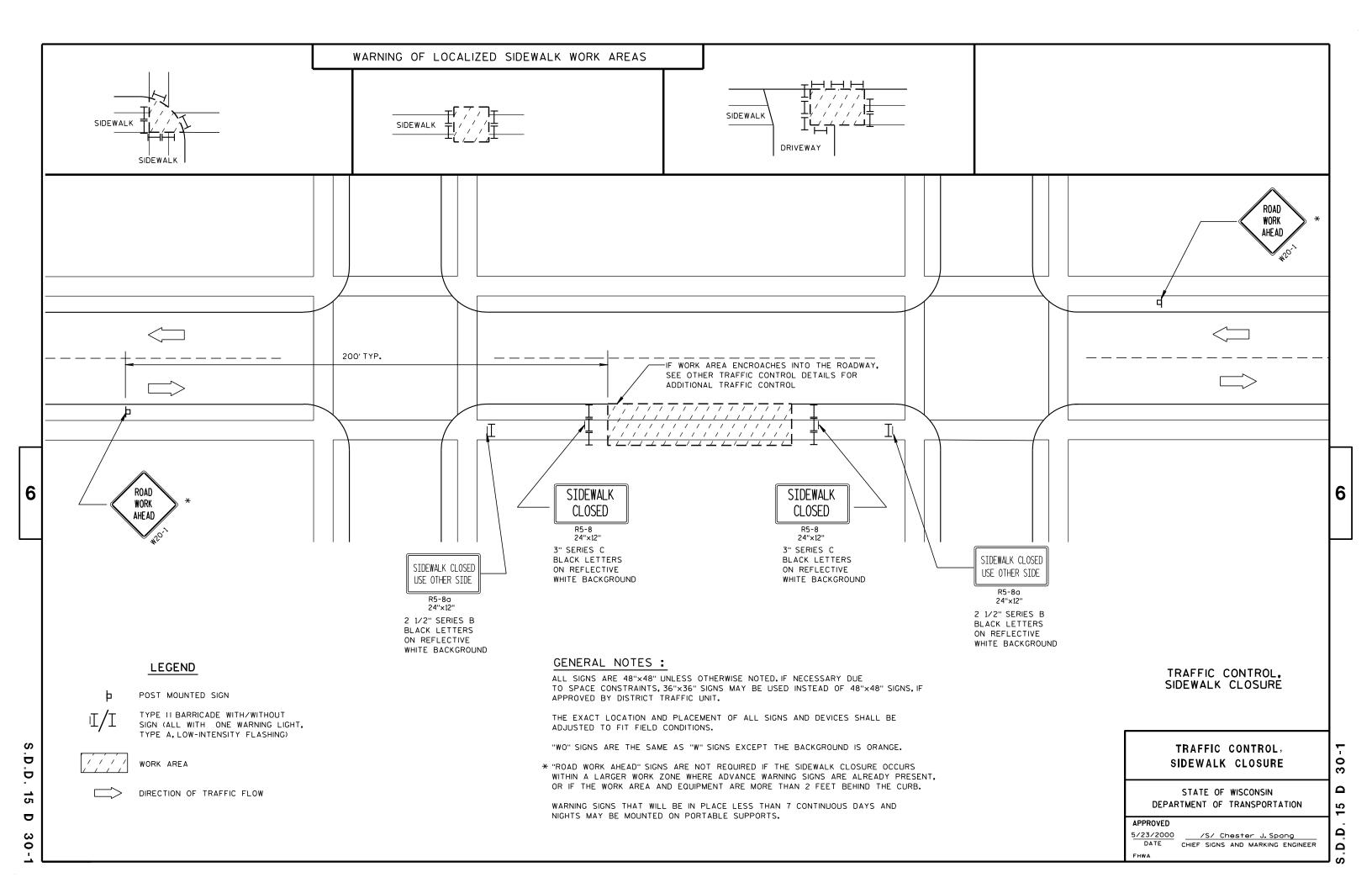
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

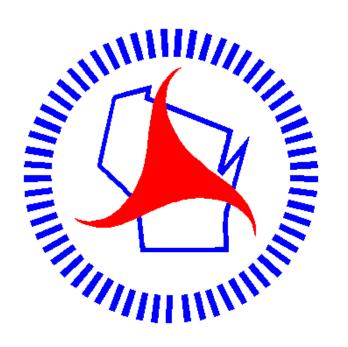
APPROVED

5/23/00 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER

WA







Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov