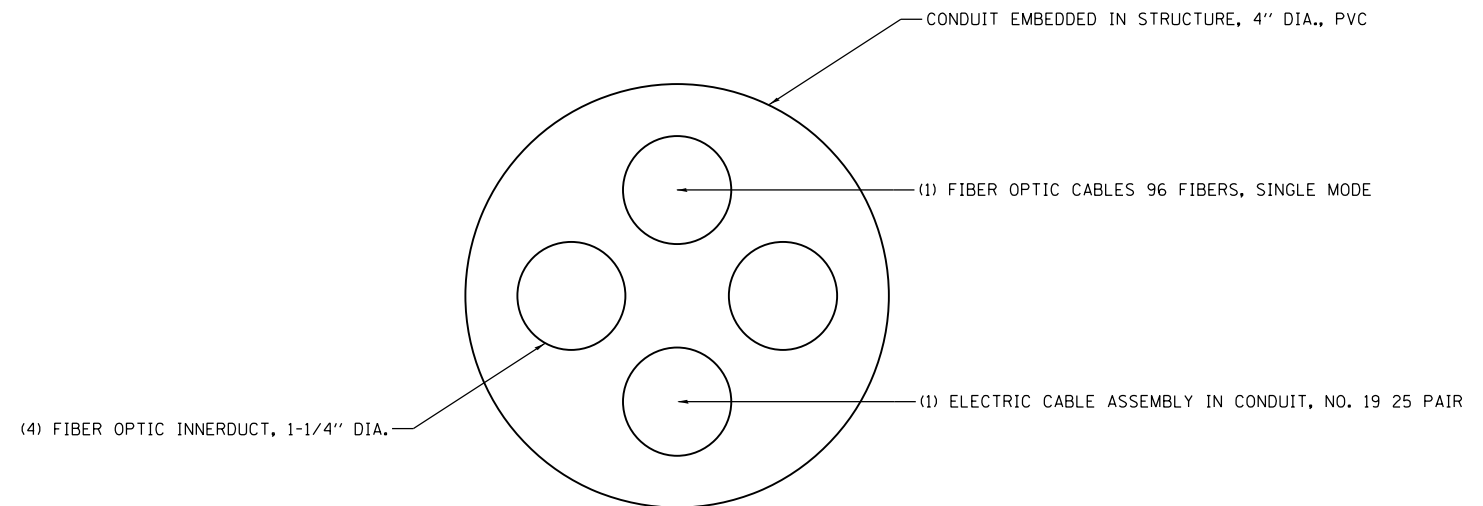


EXPANSION/DEFLECTION CONDUIT COUPLING DETAIL
NOTES 1 AND 6

NOTES:

1. THE CONTRACTOR SHALL INSTALL A CONDUIT EXPANSION/DEFLECTION COUPLING AT THE JOINT LOCATIONS IN THE CONCRETE PARAPET ON THE BRIDGE CAPABLE OF ACCEPTING THE LONGITUDINAL MOVEMENT. ALL METALLIC PARTS OF THE COUPLING SHALL BE MADE OF STAINLESS STEEL OR AS APPROVED BY THE ENGINEER. ANY NON-STAINLESS METAL SHALL BE HOT DIP GALVANIZED AND COATED TO PREVENT REACTION WITH THE CONCRETE. THE COST OF THE COUPLING SHALL BE PART OF AND INCIDENTAL TO THE CONDUIT SYSTEM.
2. THE BARREL IN THE EXPANSION FITTING SHALL BE IN THE CONCRETE ON ONE SIDE OF THE EXPANSION JOINT. ONE HALF THE LENGTH OF THE DEFLECTION FITTING SHALL BE EMBEDDED IN THE CONCRETE ON THE OTHER SIDE OF THE COUPLING.
3. A CAVITY OPENING 3" LARGER IN DIAMETER THAN THE DEFLECTION FITTING SHALL BE PROVIDED IN THE CONCRETE TO ENSURE PROPER PERFORMANCE OF THE COUPLING.
4. CAREFUL ATTENTION TO JOINT MOVEMENT OVER A RANGE OF TEMPERATURES SHALL BE COORDINATED WITH THE SELECTION AND INSTALLATION OF THE COUPLING TO ENSURE THE RANGE OF MOVEMENT OF THE COUPLING IS NOT EXCEEDED AT TEMPERATURE EXTREMES.
5. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE CAREFULLY FOLLOWED TO ENSURE OPTIMUM PERFORMANCE OF THE EXPANSION/DEFLECTION COUPLING.
6. THE CONTRACTOR SHALL INSTALL COUPLINGS AT ALL BRIDGE EXPANSION JOINTS AND SHALL BE RESPONSIBLE TO DETERMINE THE PROPER NUMBER OF COUPLINGS REQUIRED. SEE STRUCTURAL DRAWINGS FOR THE EXPANSION JOINT LOCATIONS.
7. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY SUBSTITUTE TWO (2) STAINLESS STEEL JUNCTION BOXES ATTACHED TO THE BACK OF THE WALL AND CONNECTED BY A HIGH GRADE OF FLEXIBLE METAL CONDUIT FOR ALL EXPANSION JOINTS. THIS SUBSTITUTION SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT.
8. EXPANSION/DEFLECTION COUPLINGS ARE INCIDENTAL TO THE COST OF THE CONDUIT.



NTS
DRAWING IS REPRESENTATIVE OF CABLE ASSIGNMENTS.
ACTUAL INNERDUCT ASSIGNMENT MAY VARY.

FILE PATH = p:\61779-PMINT\ecomon\line\loc\h\AECOM\0502_NA\Documents\01_Americas\T\engor\station\60269938_Circle\Phase_1\1000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-sht-ITS-09



D160X77-sht-ITS-09	DESIGNED - WDS	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ITS CONDUIT EXPANSION DETAIL

SCALE: N.T.S. SHEET 10 OF 13 SHEETS STA. TO STA.

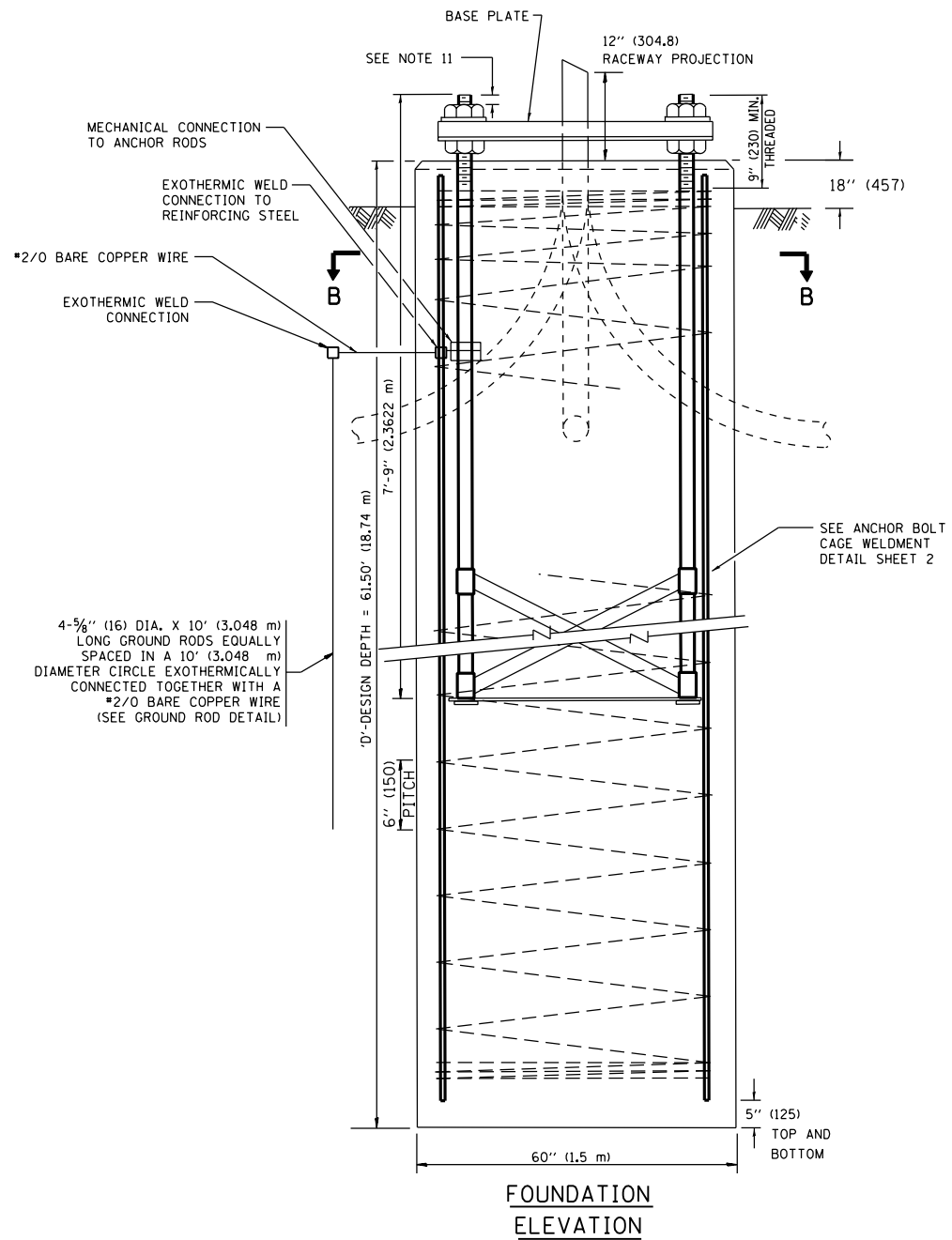
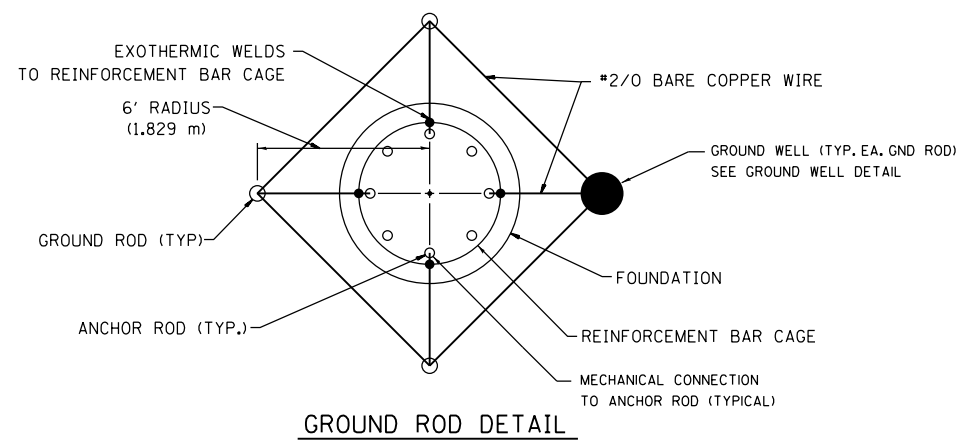
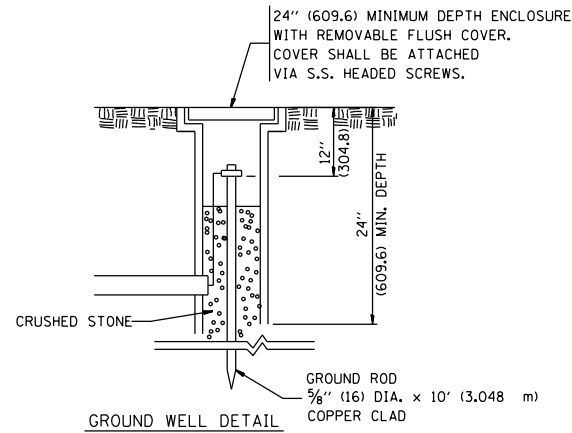
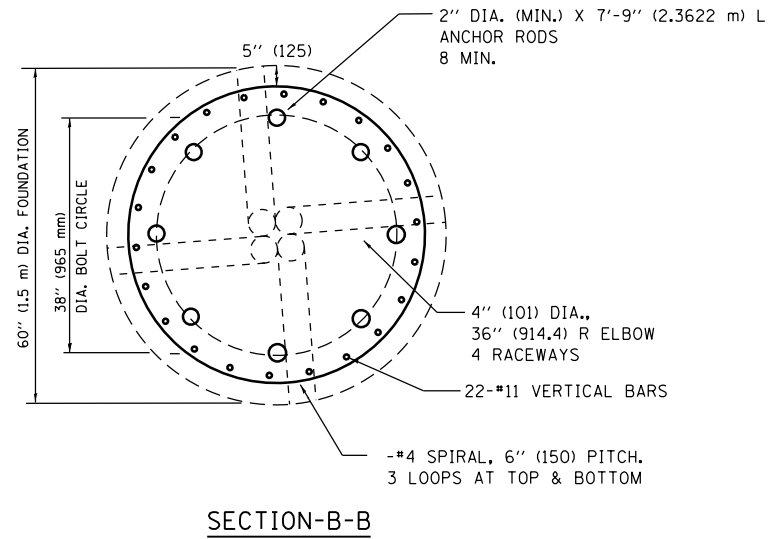
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	201
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

ITS-10

FILE PATH = p:\61779-PMINT\secomon\line\local\AECOM\0502_NA\Documents\01\Americas\T\engor\station\60269438_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X77_Contract\01\60X77-sht-11S-09A

DESIGN NOTES

- (1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- (2) THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- (3) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- (4) THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- (5) SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- (6) STEEL ANCHOR ROD FORMS SHALL NOT BE REMOVED FOR A MINIMUM OF 3 DAYS AFTER CONCRETE IS POURED. THE CCTV CAMERA POLE SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- (7) ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725(GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- (8) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH CCTV CAMERA POLE MANUFACTURER REQUIREMENTS.
- (9) ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED. REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- (10) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- (11) A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- (12) ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE CCTV CAMERA POLE FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- (13) CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- (14) ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- (15) COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- (16) THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
- (17) THE SHAFT LENGTH(S) ARE BASED ON NEAREST AVAILABLE SOIL BORINGS. IF DIFFERENT SOILS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED TO PROVIDE A REVISED LENGTH.
- (18) THE COST OF THE FOUNDATION IS INCIDENTAL TO THE COST OF THE CCTV TOWER.



D160X77-sht-11S-09A	DESIGNED - WDS	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 60000.0000' / 1"	CHECKED - WDS	REVISED -
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -

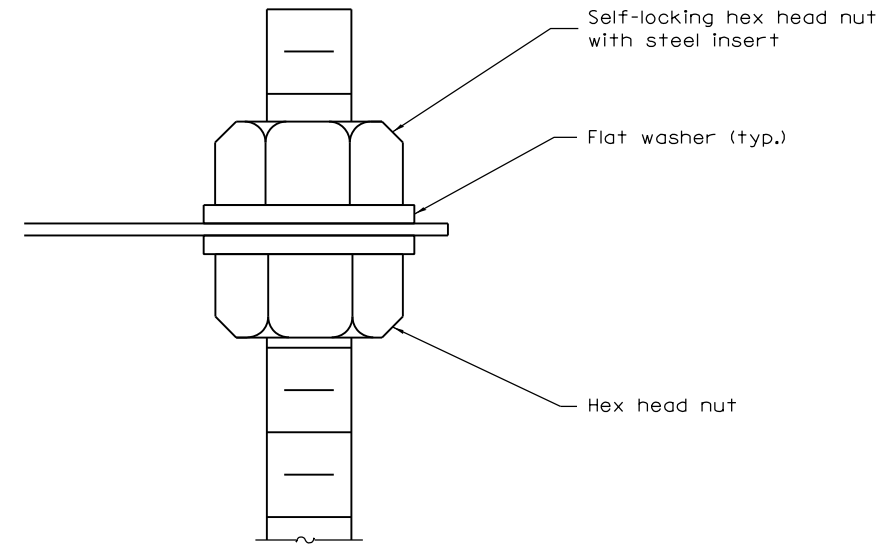
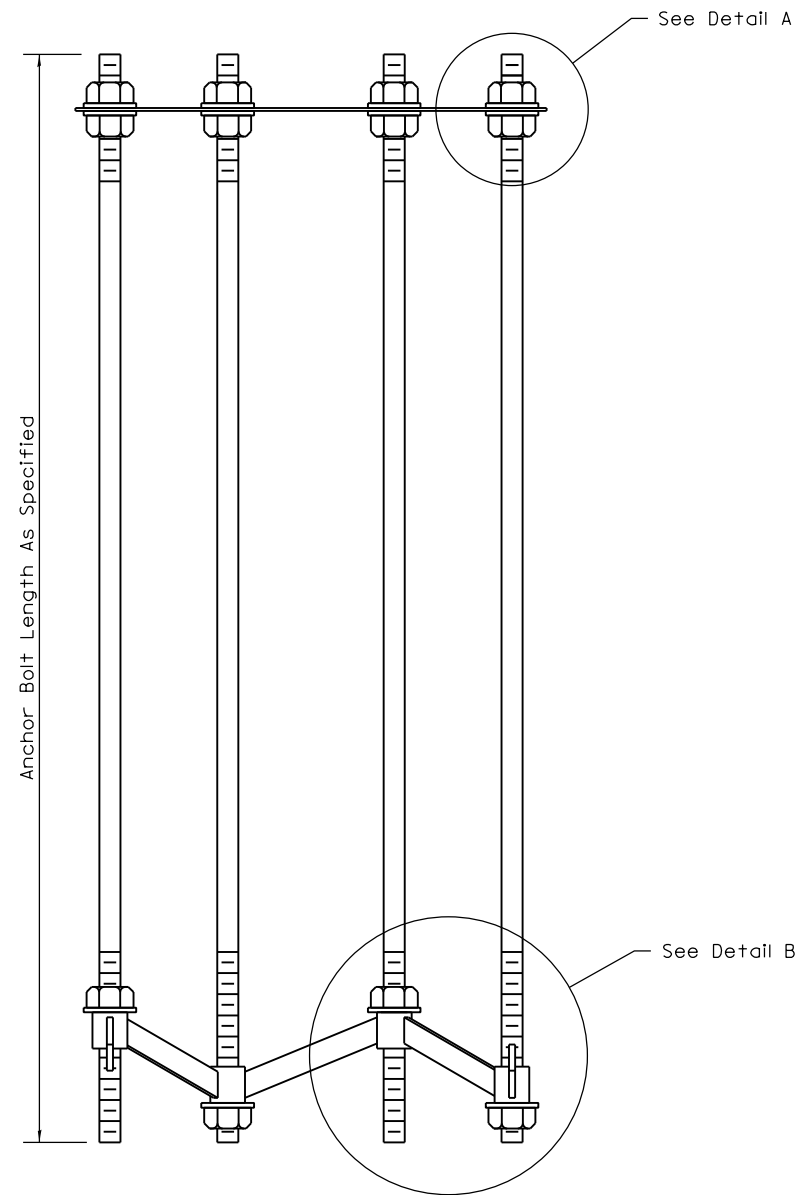
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM - 100 FOOT POLE FOUNDATION
PLANS 1 OF 2

SCALE: N.T.S. SHEET 11 OF 13 SHEETS STA. TO STA.

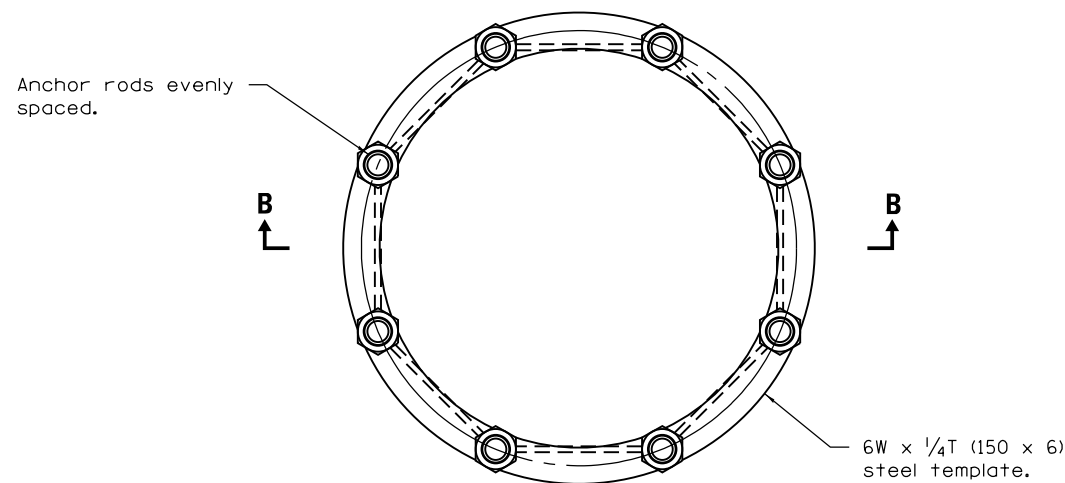
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	202
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\61779-PMINT\secomon\line\local\AECOM\0902_NA\Documents\01_Americas\T_engorg\station\60269438_Circle\Phase_1\1000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-sht-ITS-09B



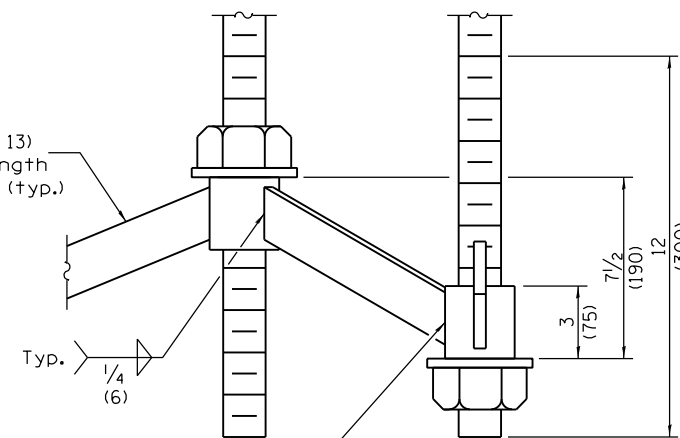
DETAIL A

SECTION B-B



ANCHOR ROD CAGE (PLAN)

2 x 1/2 (50 x 13)
Steel bar, length
as required. (typ.)



DETAIL B



D160X77-sht-ITS-09B	DESIGNED - WDS	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 60000.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

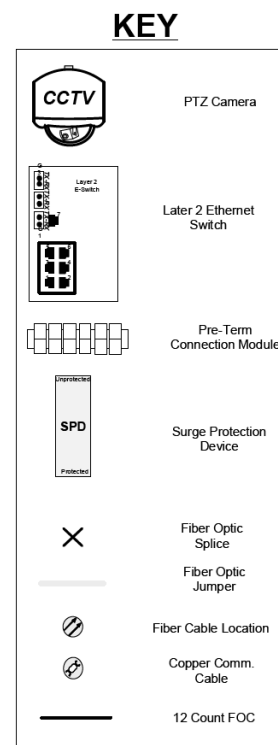
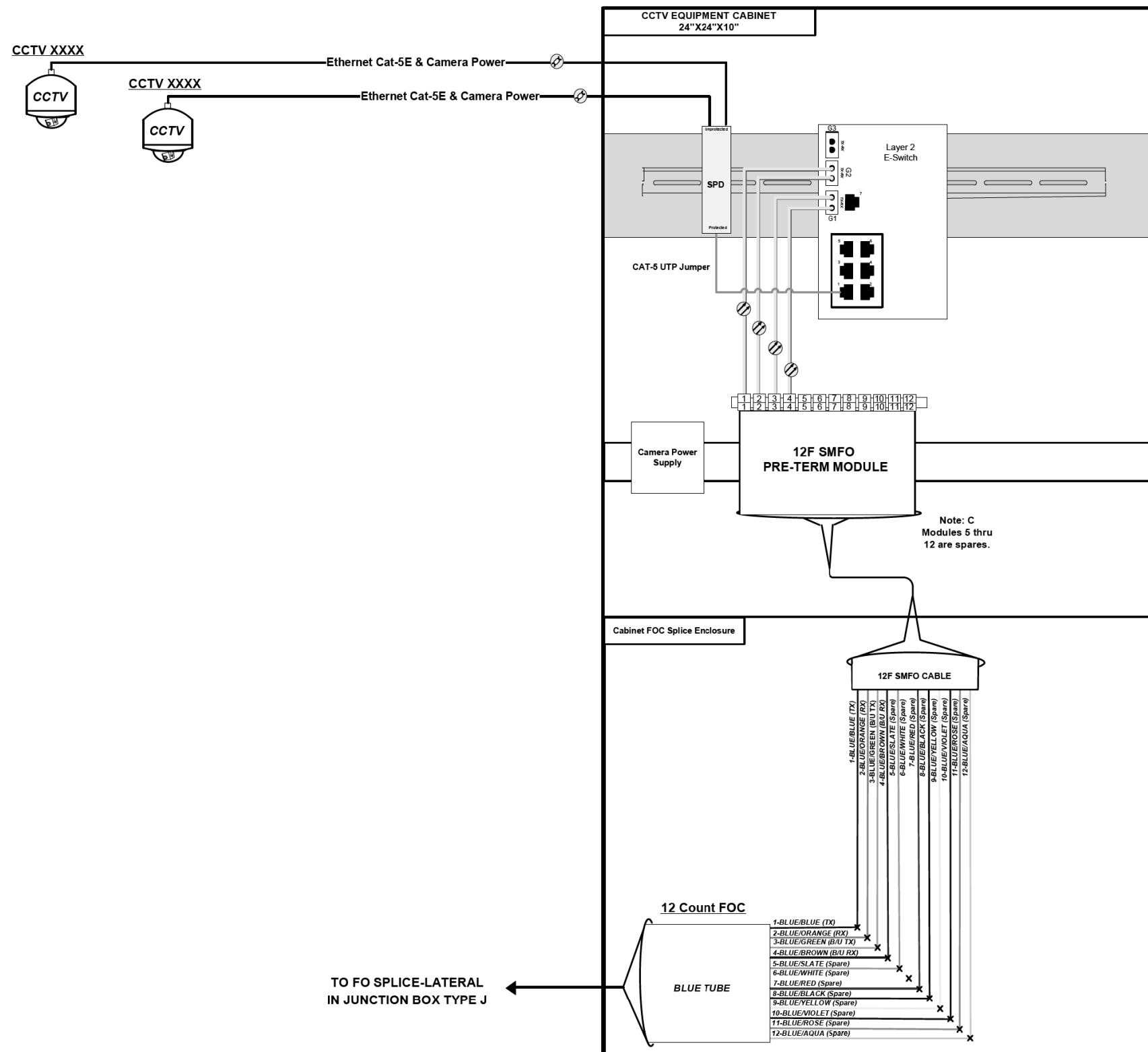
CCTV SYSTEM - 100 FOOT POLE FOUNDATION
PLANS 2 OF 2

SCALE: N.T.S. SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	203
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

ITS-12

FILE PATH = p:\61779-PMINT.aecom\line\loc\1602\0522\NA\Documents\01_Americos\T-emp\location\60269438_Circle\Phase_1\000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-sht-ITS-09C



COMMUNICATIONS DETAIL CCTV ____ & ____

ITS-13



D160X77-sht-ITS-09C	DESIGNED - GWS	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - JDG	REVISED -
PLOT DATE = 3/14/2016	DATE - 3/14/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

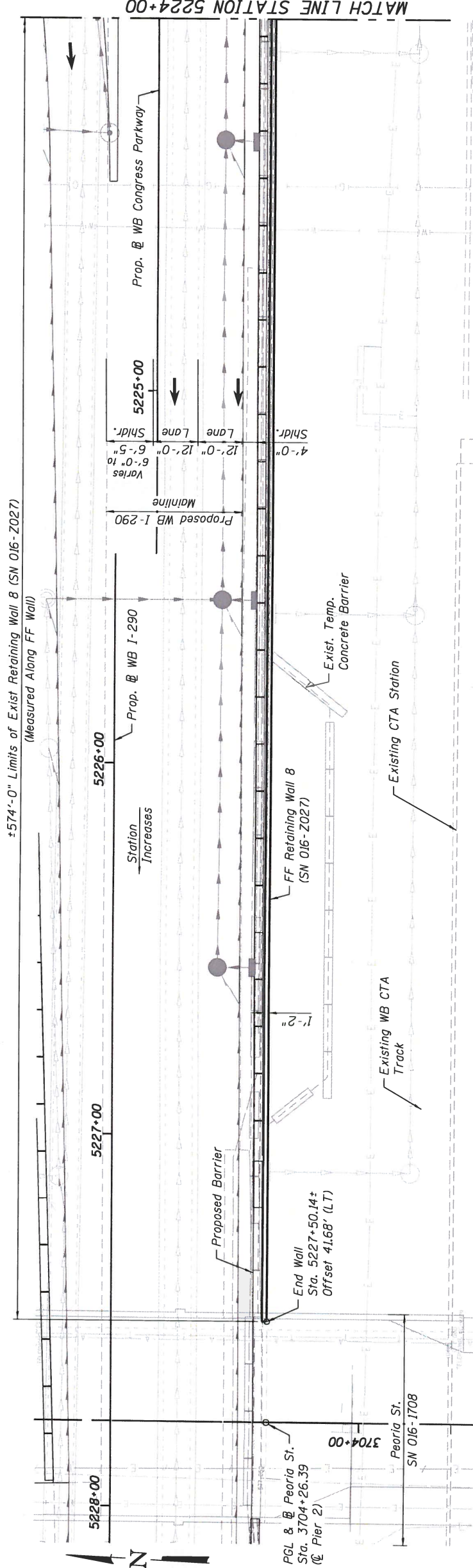
COMMUNICATIONS DETAIL
CCTV IK0E AND IK0F

SCALE: N.T.S. SHEET 13 OF 13 SHEETS STA. TO STA.

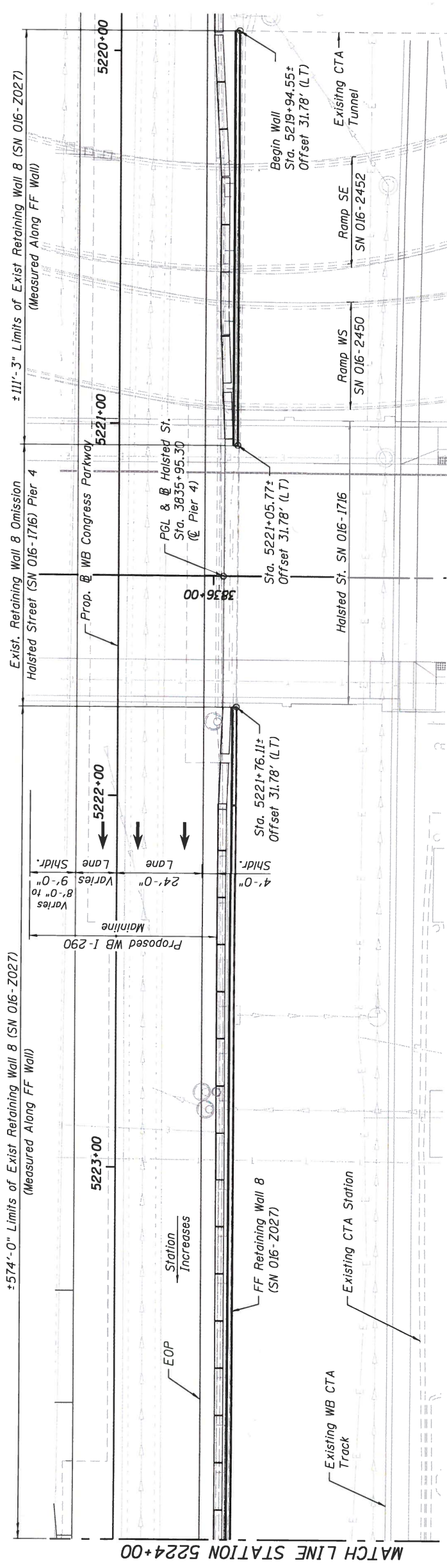
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	204
CONTRACT NO. 60X77			ILLINOIS FED. AID PROJECT	

Existing Structure: Existing Retaining Wall B was constructed in 1955 under Project U.I. 261(10) (F.A. Route 131; Section 2525-103)
Existing Wall is comprised of reinforced concrete cantilever wall on spread footing. The approximate length of wall is 685'-3".

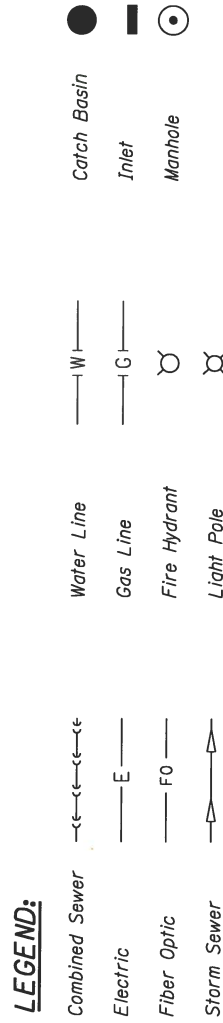
Traffic Control: Traffic to be maintained on WB I-290 during construction.



PLAN



PLAN



SCOPE OF WORK
Structural repair of retaining wall.

GENERAL PLAN
EXISTING RETAINING WALL B
F.A.I. RTE. 90/94 - SECTION 2014-003R8&B
COOK COUNTY
STATION 5221+76.11 TO 5219+94.55
STRUCTURE NO. 016-2027



Amish T. Bhatt 3/14/16
AMISH T. BHATT
LICENSE EXPIRES 11/30/2016 DATE

AECOM USER NAME = BhattTA PLOT SCALE = N.T.S. PLOT DATE = 3/14/2016	DESIGNED - AV	REVISION	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN STRUCTURE NO. 016-2027	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
	CHECKED - ATB	REVISED			90/94/290	2013-010R	COOK	431
	DRAWN - MKR	REVISED						CONTRACT NO. 60X77
	CHECKED - ATB	REVISED						ILLINOIS FED. AID PROJECT

GENERAL NOTES:

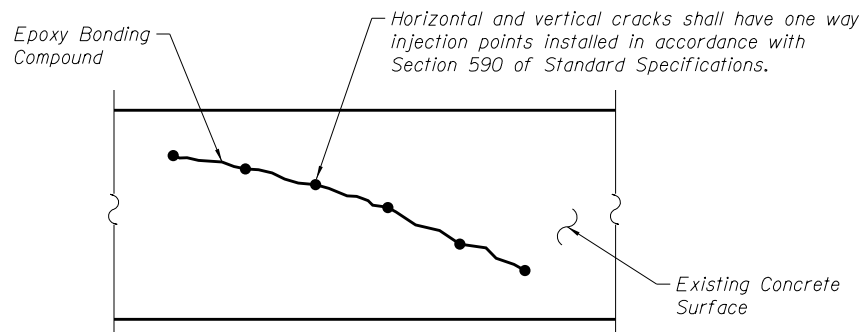
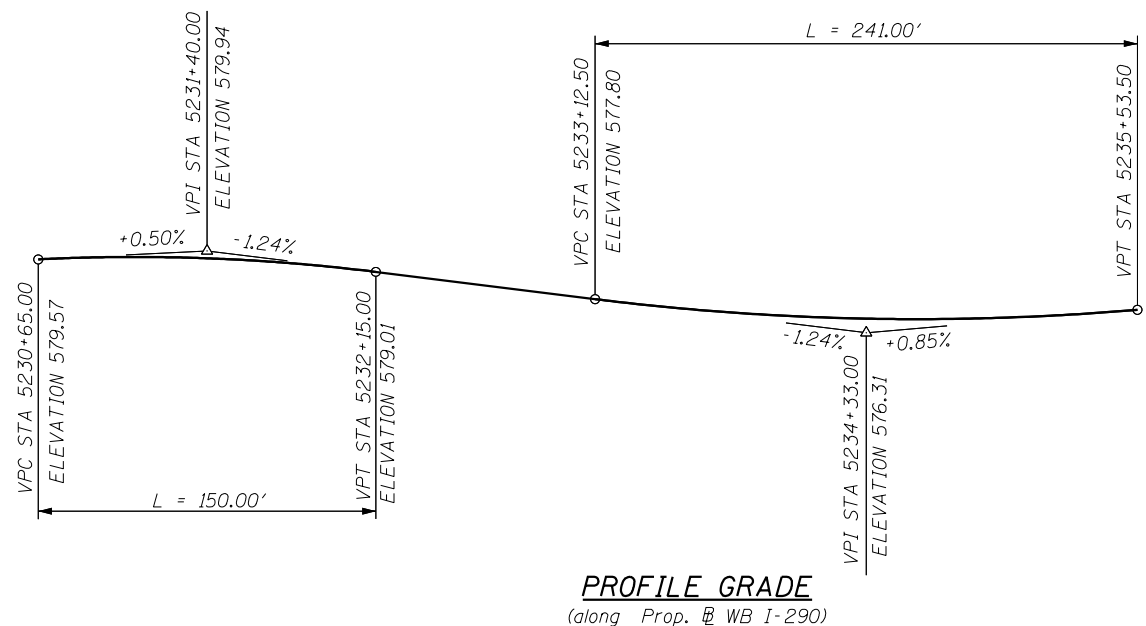
1. Wall repair locations are approximate and were determined from field inspection performed at the time of plan preparation. The necessary adjustments based on current field conditions will be made at time of construction. Such variations shall not be cause for additional compensation for a change in the scope of work. However, the Contractor will be paid for the actual quantity furnished at the unit price bid for the work.
2. Stations and offsets of Existing Retaining Wall 8 are referenced along proposed Prop. WB I-290 OR Prop. WB Congress Parkway.
3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. Existing reinforcing steel which is exposed by the concrete repair process, but is to remain embedded in the existing structure and reused, shall be cleaned to be free of existing concrete and rust, and straightened if necessary. Existing reinforcing steel which is cut, stretched or damaged by the Contractor during the concrete repair process shall be replaced by embedded reinforcing steel or anchorage, equal to or greater than the size of original reinforcing steel, at no cost to the Department. See Special Provisions for Structural repair of concrete.
5. The Contractor shall take precautions not to damage existing retaining wall during the construction. Any damage to the existing retaining wall shall be repaired by the Contractor at no additional cost.

TOTAL BILL OF MATERIALS

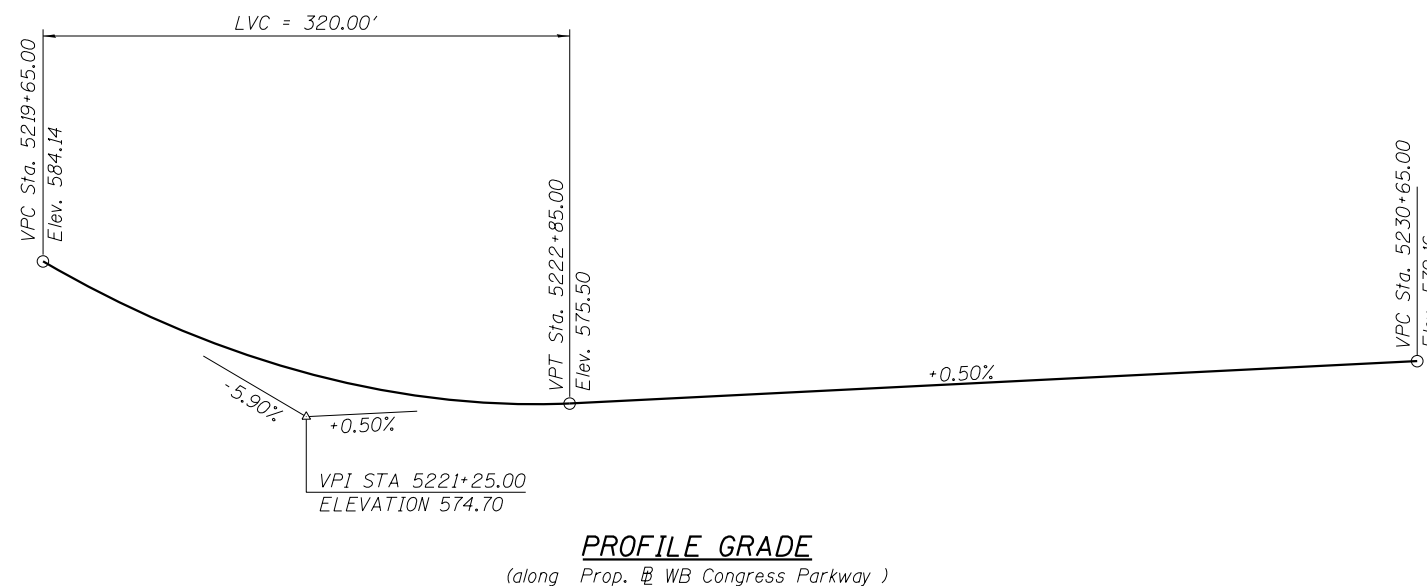
DESCRIPTION	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 IN.)	SQ. FT.	278
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 IN.)	SQ. FT.	11
EPOXY CRACK INJECTION	FOOT	187

INDEX OF SHEETS

- RW8-01 General Plan
- RW8-02 Total Bill of Material, Index of Sheets & General Notes
- RW8-03 Front of Wall Elevations - I
- RW8-04 Front of Wall Elevations - II
- RW8-05 Front of Wall Elevations - III



EPOXY CRACK INJECTION



016Z027-60XT7-RW8-2.dgn



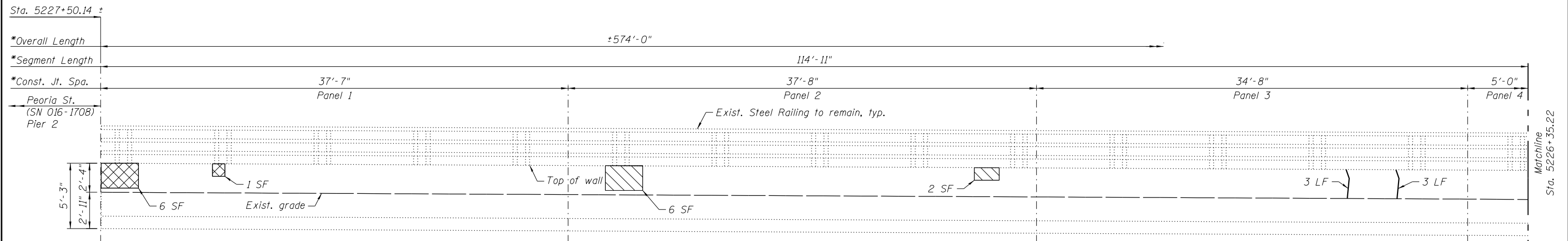
USER NAME = Bhatta	DESIGNED - AV	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MRK	REVISED
PLOT DATE = 3/14/2016	CHECKED - ATB	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

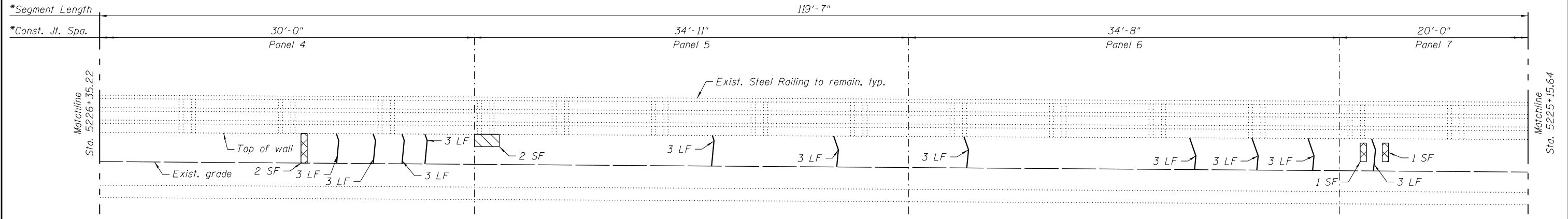
**TOTAL BILL OF MATERIAL, INDES OF SHEETS & GENERAL NOTES
STRUCTURE NO. 016-2027**

SHEET NO. RW8-2 OF RW8-5 SHEETS

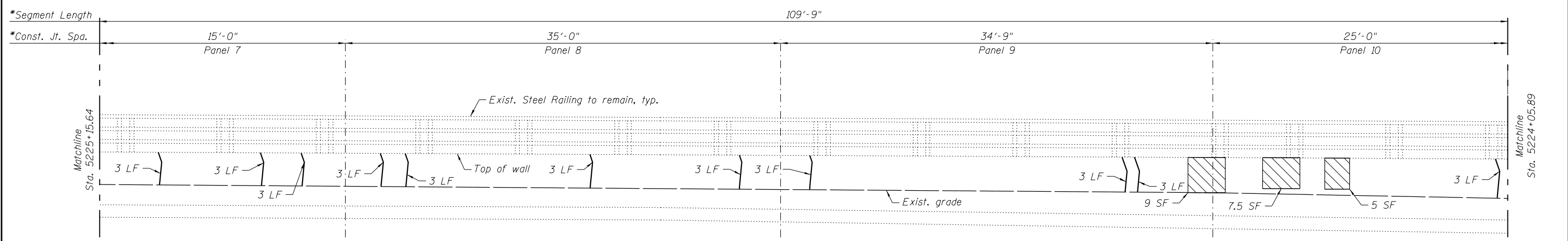
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	431	206
CONTRACT NO. 60X77			ILLINOIS FED. AID PROJECT	



ELEVATION STATION (5227+50.14 TO 5226+35.22)
(Looking North)



ELEVATION STATION (5226+35.22 TO 5225+15.64)
(Looking North)



ELEVATION STATION (5225+15.64 TO 5224+05.89)
(Looking North)

LEGEND

- Area of Structural repair of Concrete (Depth greater than 5 in.)
- Area of Structural repair of Concrete (Depth less than 5 in.)
- Low Pressure Epoxy Injection
- SF - Square Foot
- LF - Linear Foot

* Measure along Front Face of wall.

0162027-60X17-RW8-3.dgn

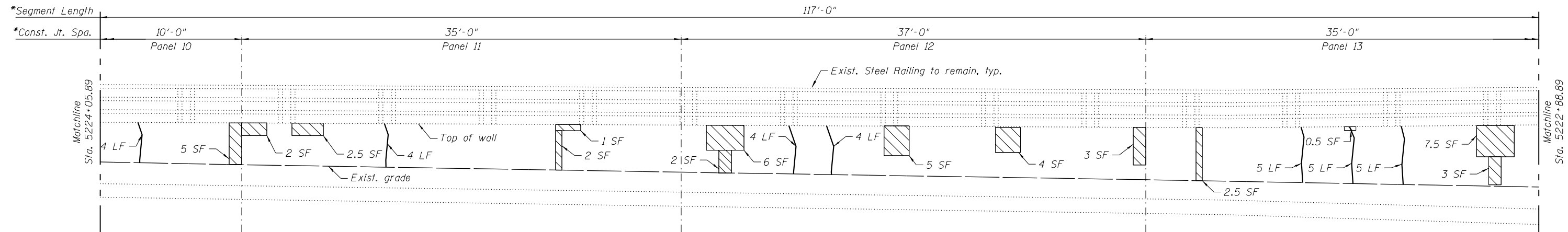


USER NAME = Bhatta	DESIGNED - AV	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MRK	REVISED
PLOT DATE = 3/14/2016	CHECKED - ATB	REVISED

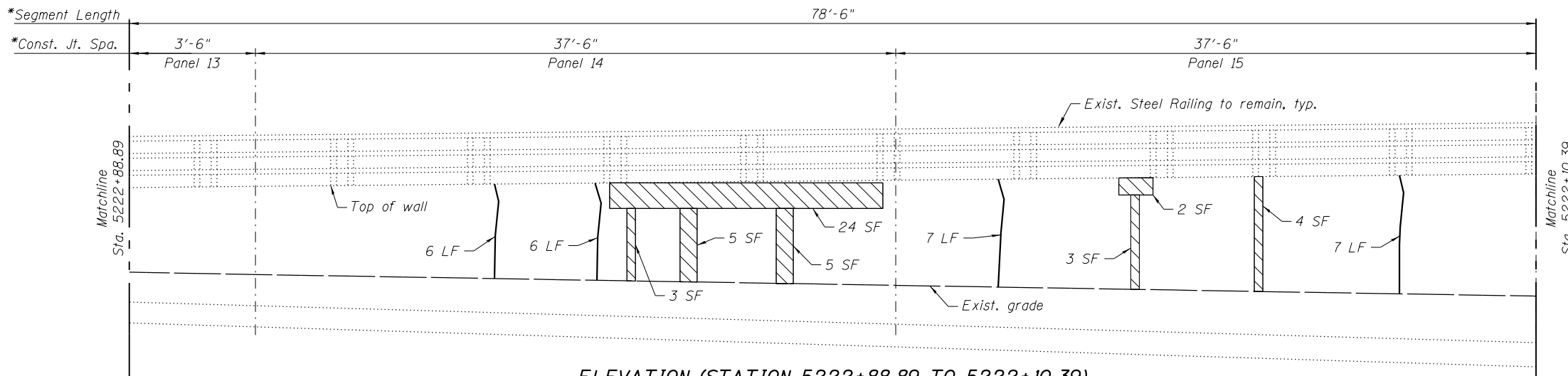
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRONT OF WALL ELEVATIONS - I
STRUCTURE NO. 016-2027**
SHEET NO. RW8-3 OF RW8-5 SHEETS

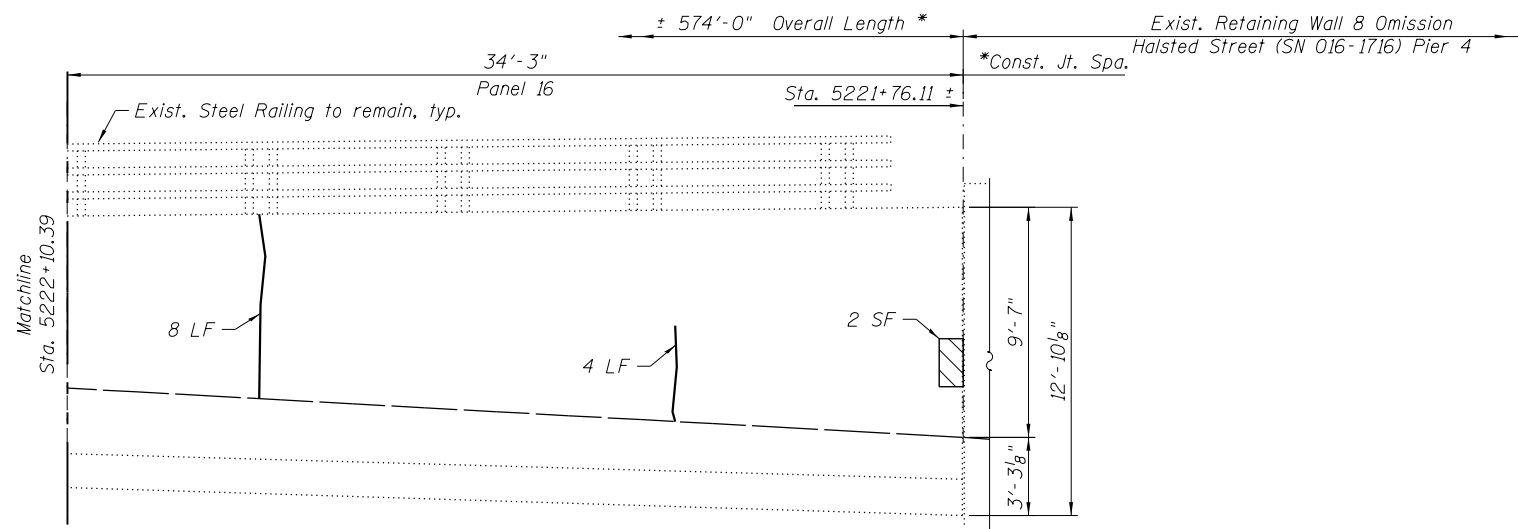
F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 431	SHEET NO. 207
CONTRACT NO. 60X77			ILLINOIS FED. AID PROJECT	



ELEVATION (STATION 5224+05.89 TO 5222+88.89)
(Looking North)



ELEVATION (STATION 5222+88.89 TO 5222+10.39)
(Looking North)



ELEVATION (STATION 5222+10.39 TO 5221+76.11)
(Looking North)

* Measure along Front Face of wall.

LEGEND

Area of Structural repair of Concrete (Depth greater than 5 in.)

Area of Structural repair of Concrete (Depth less than 5 in.)

Low Pressure Epoxy Injection

SF - Square Foot

LF - Linear Foot

0162027-60X17-RW8-4.dgn



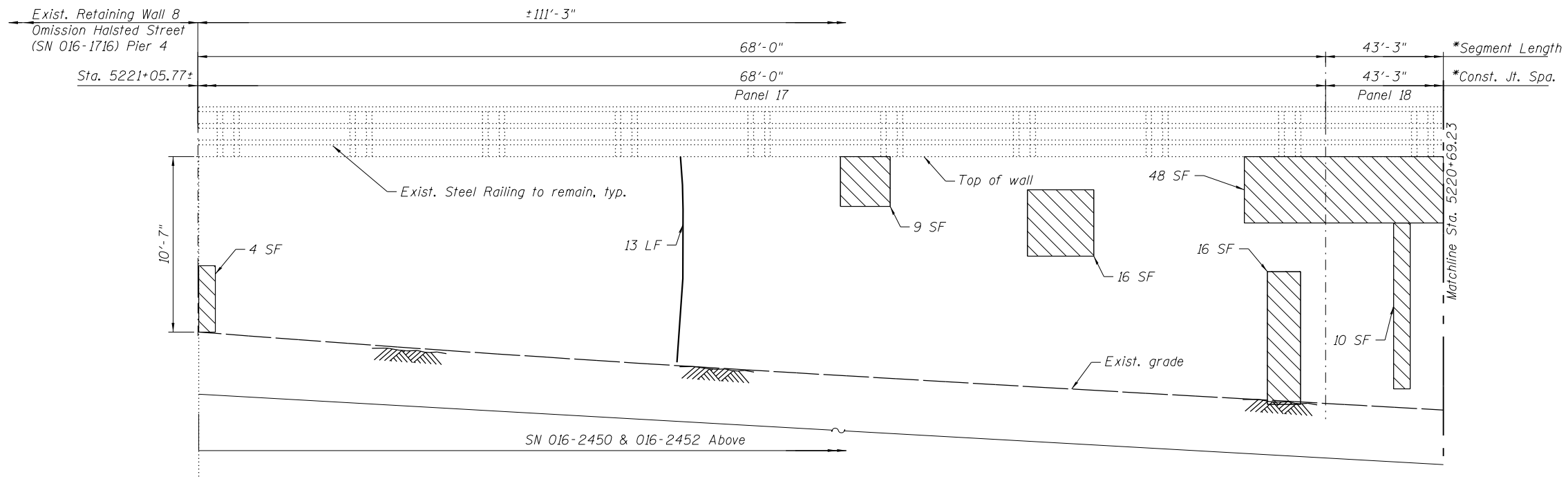
USER NAME = Bhatta	DESIGNED - AV	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MRK	REVISED
PLOT DATE = 3/14/2016	CHECKED - ATB	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

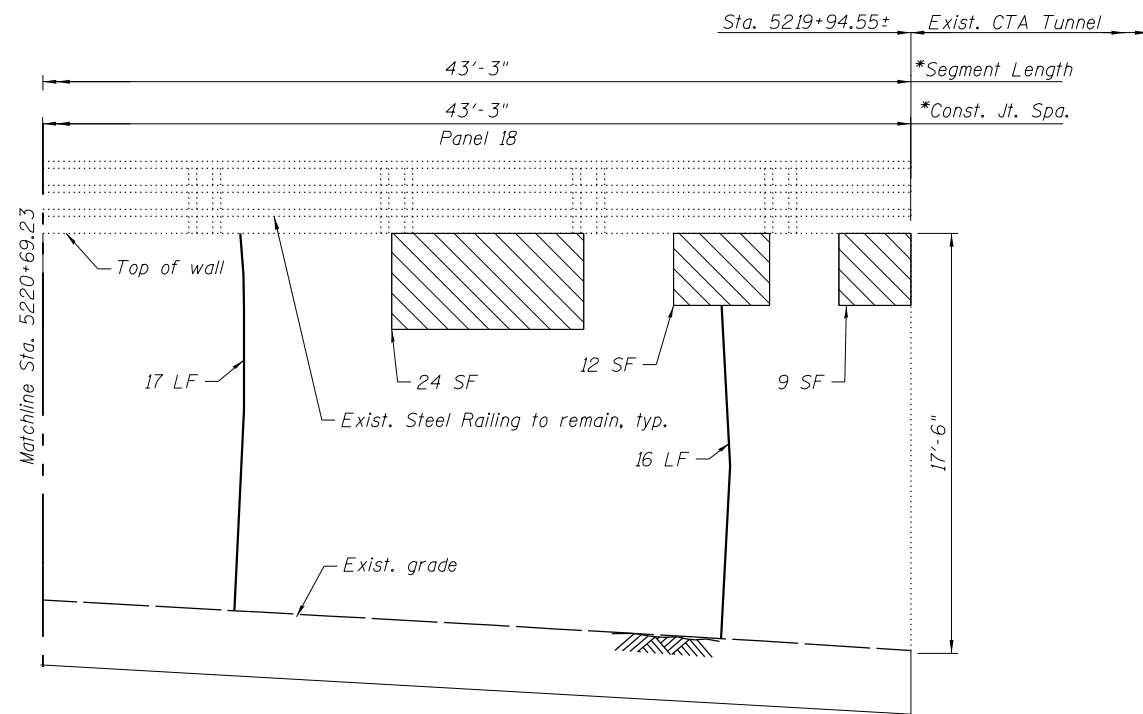
**FRONT OF WALL ELEVATIONS - II
STRUCTURE NO. 016-2027**

SHEET NO. RW8-4 OF RW8-5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	431	208
CONTRACT NO. 60X77			ILLINOIS FED. AID PROJECT	



ELEVATION (STATION 5221+05.77 TO 5220+69.23)
(Looking North)



ELEVATION (STATION 5220+69.23 TO 5219+94.55)
(Looking North)

* Measure along Front Face of wall.

LEGEND

Area of Structural repair of Concrete (Depth greater than 5 in.)

Area of Structural repair of Concrete (Depth less than 5 in.)

Low Pressure Epoxy Injection

SF - Square Foot

LF - Linear Foot

016Z027-60X17-RW8-5.dgn



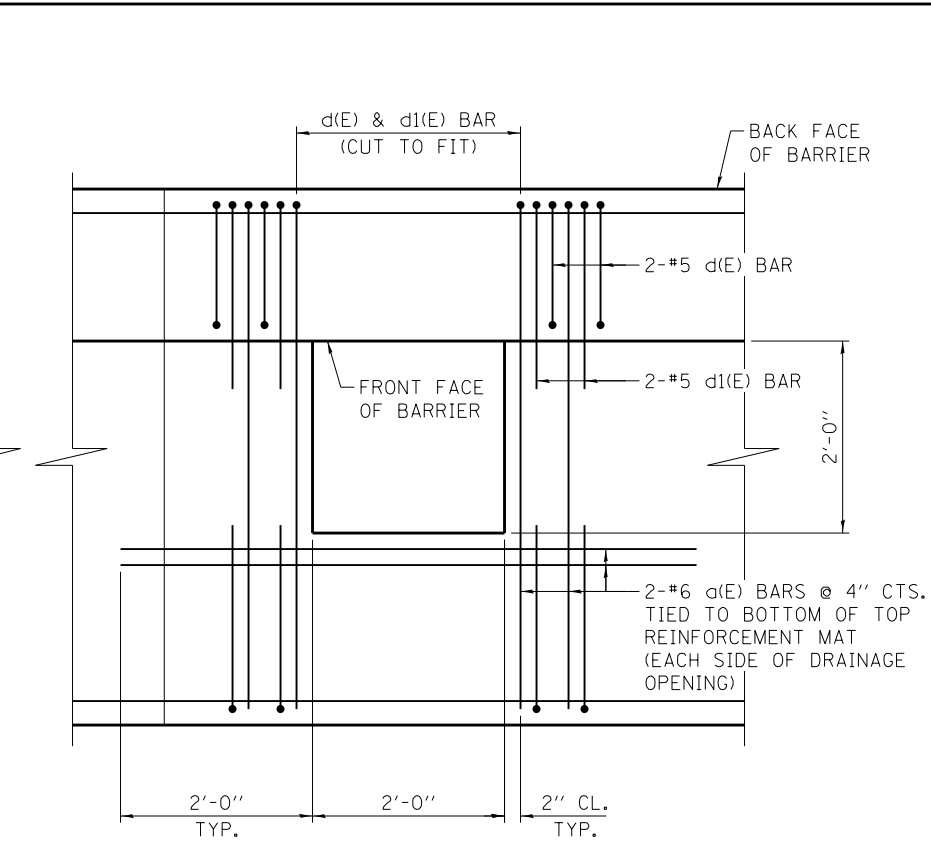
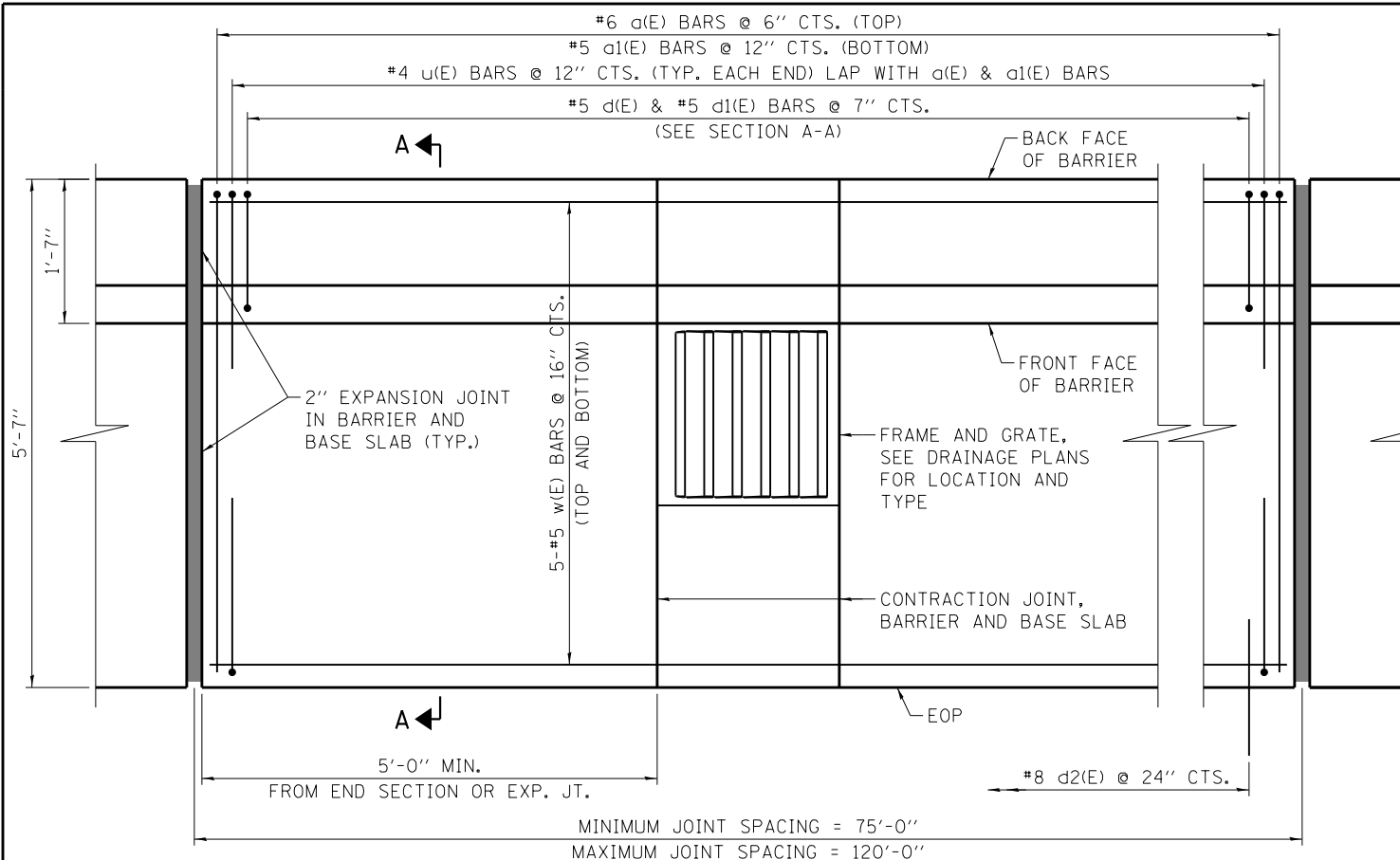
USER NAME = Bhatta	DESIGNED - AV	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - MRK	REVISED
PLOT DATE = 3/14/2016	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRONT OF WALL ELEVATIONS - III
STRUCTURE NO. 016-2027

SHEET NO. RW8-5 OF RW8-5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	431	209
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



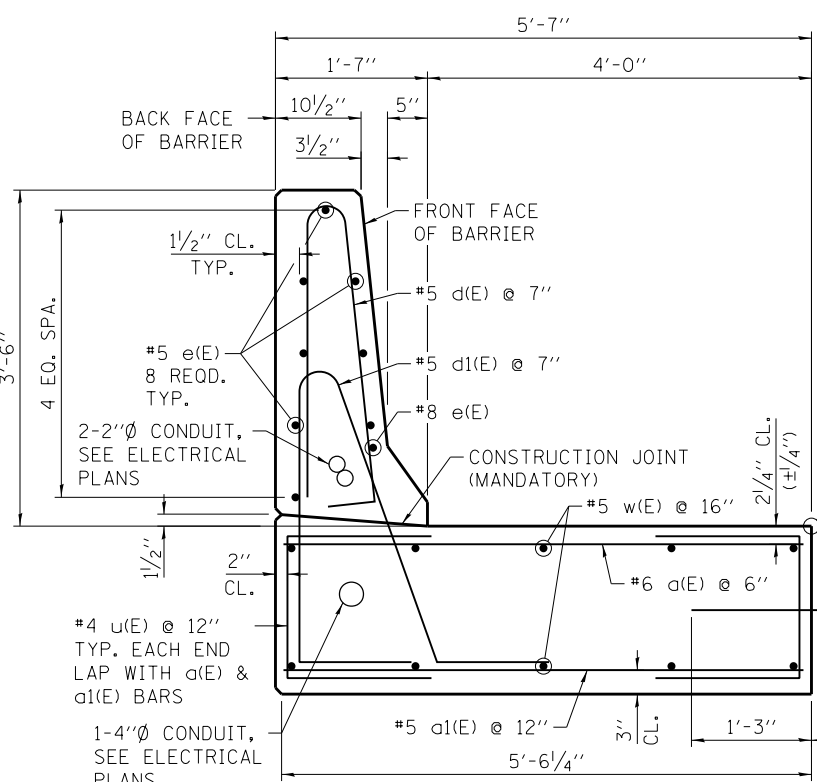
PLAN - REINFORCEMENT AROUND DRAINAGE STRUCTURE

- NOTES:**
1. TOP SHOULDER EDGE OF BARRIER BASE SHALL MATCH THE TOP OF SHOULDER ELEVATION.
 2. 1" DEEP CONTRACTION JOINTS SHALL BE CONSTRUCTED IN REINFORCED CONCRETE BASE AND BARRIER WALL. CONTRACTION JOINTS SHALL ALSO BE CONSTRUCTED AT BOTH SIDES OF ALL DRAINAGE STRUCTURES. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 30'-0".
 3. THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SAWING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
 4. REINFORCEMENT BARS DESIGNATED "E" SHALL BE EPOXY COATED.
 5. AT DRAINAGE STRUCTURES, CUT BARS TO FIT, ADD AN ADDITIONAL SET OF BARS AS SHOWN AT EACH SIDE OF DRAINAGE STRUCTURE.
 6. MAXIMUM EXPANSION JOINTS SPACING SHALL BE 120'-0".
 7. MINIMUM EXPANSION JOINTS SPACING SHALL BE 75'-0".
 8. A MIN. 6" SUBGRADE SHALL BE PLACED BENEATH THE BASE SLAB.
 9. PROTECTIVE COAT SHALL BE APPLIED TO THE TOP AND VERTICAL FACES OF THE BARRIER EXPOSED TO TRAFFIC.

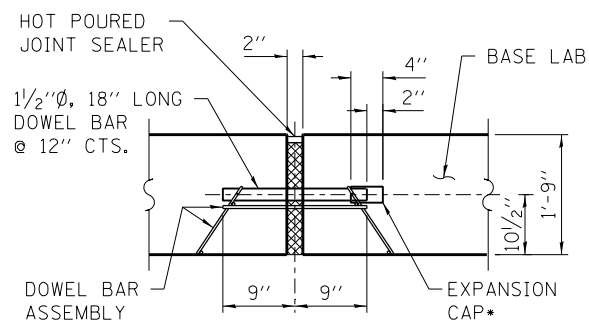
PLAN

MINIMUM BAR LAP LENGTH:

- #4 BAR = 2'-8"
- #5 BAR = 3'-6"
- #6 BAR = 4'-10"
- #8 BAR = 6'-9"



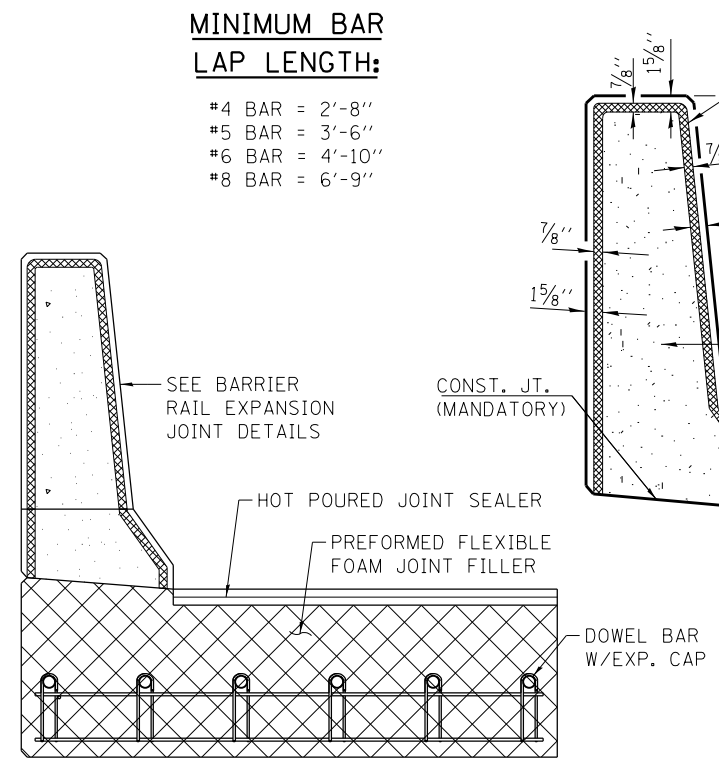
SECTION A-A



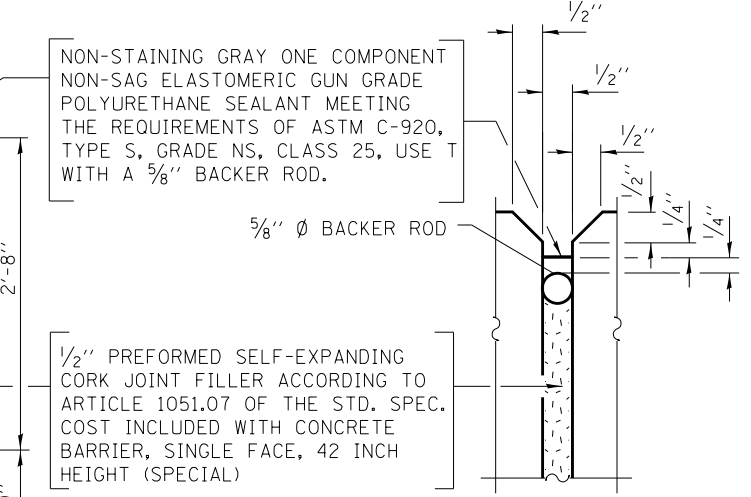
* EXPANSION CAPS SHALL BE INSTALLED ON THE EXPOSED END OF EACH DOWEL BAR ONCE HEADER HAS BEEN REMOVED AND THE JOINT FILLER MATERIAL HAS BEEN INSTALLED.

TRANSVERSE EXPANSION JOINT

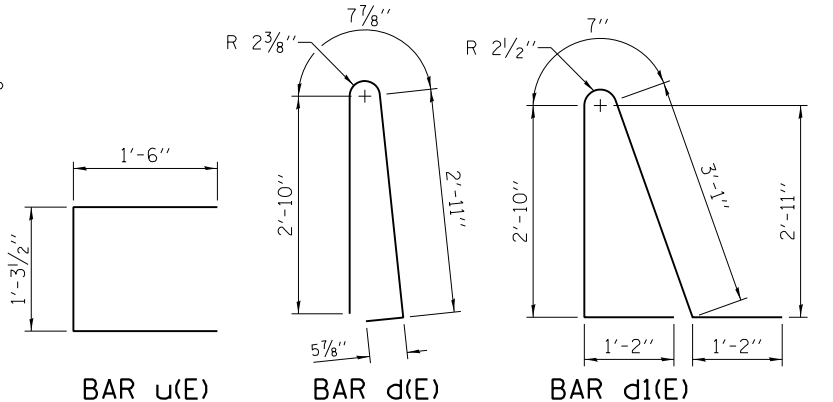
EXPANSION JOINT FILLER, SEALER, DOWEL BARS, DOWEL BAR ASSEMBLY, AND EXPANSION CAPS INCLUDED IN COST OF CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)



SECTION



BARRIER RAIL JOINT DETAILS



BAR u(E)

BAR d(E)

BAR d1(E)



USER NAME = mar'daussw	DESIGNED - ATB	REVISED
PLOT SCALE = N.T.S.	CHECKED - WM	REVISED
PLOT DATE = 4/27/2016	DRAWN - MRK	REVISED
	CHECKED - ATB	REVISED

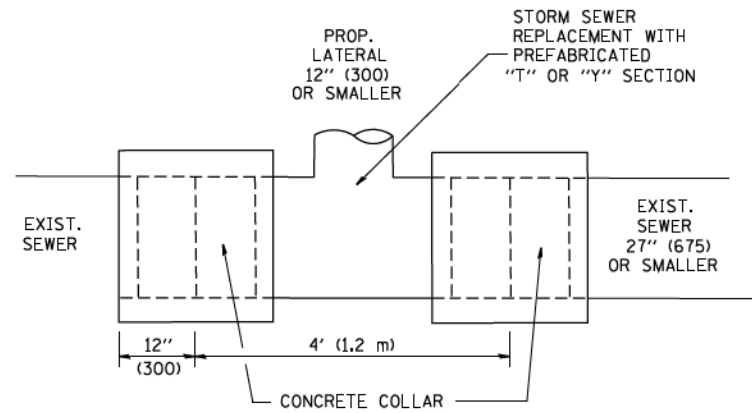
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER, SINGLE FACE
42 INCH HEIGHT (SPECIAL)

SHEET NO. MS-1 OF MS-1 SHEETS

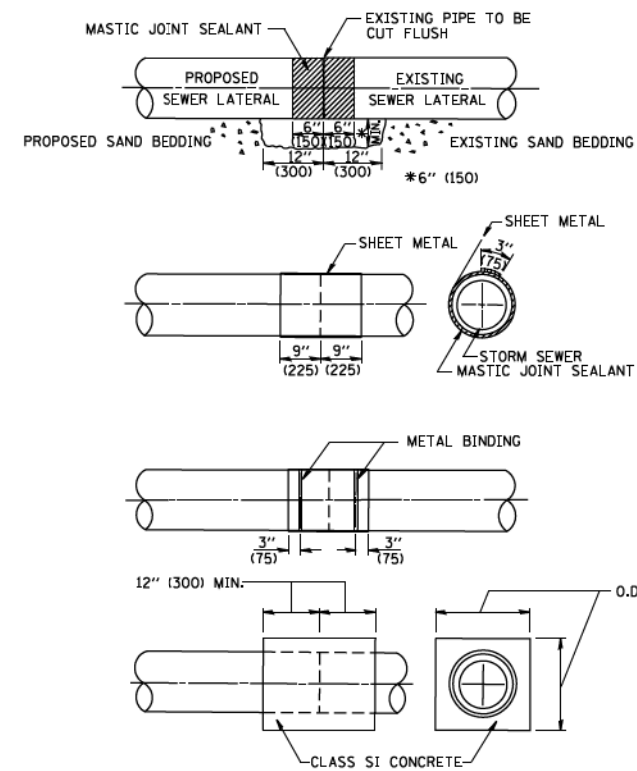
F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 431	SHEET NO. 209A
CONTRACT NO. 60X77			ILLINOIS FED. AID PROJECT	

60X77-MomentSlab-1.dgn



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER

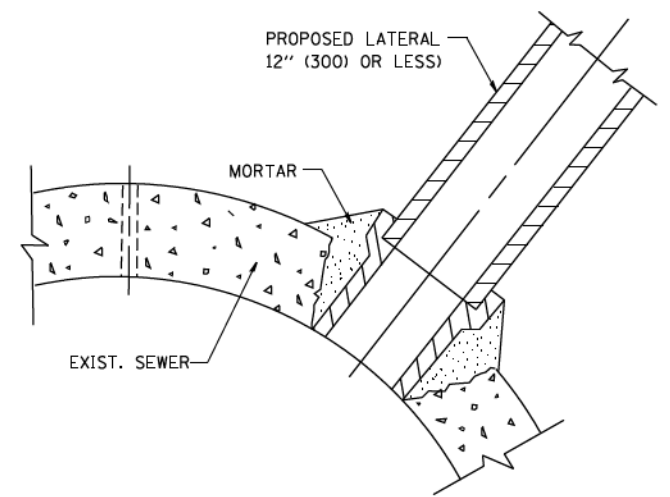


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

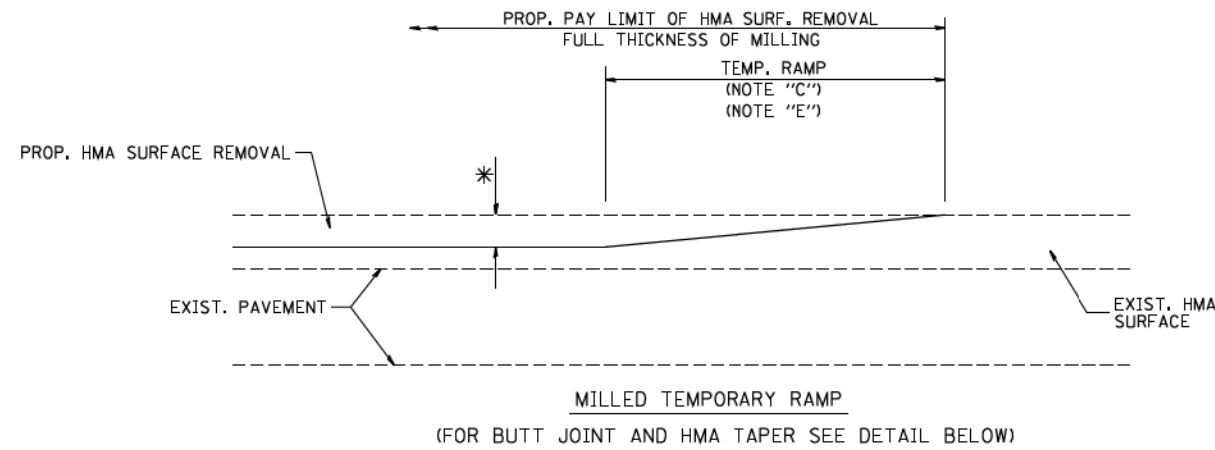
REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

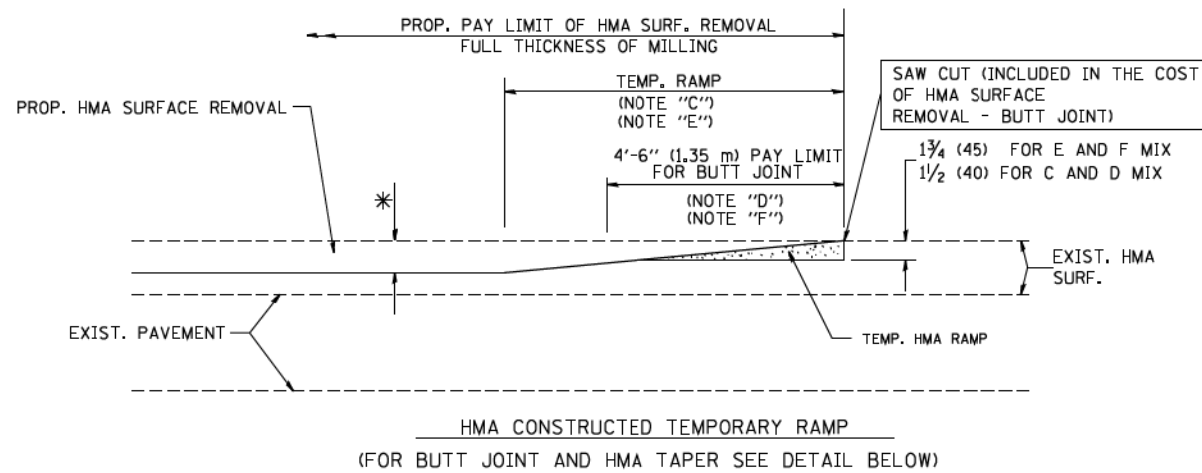
CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\bd07.dgn	USER NAME = gegljanobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. SHAH 09-09-94		SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	431	210
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - R. SHAH 10-25-94								BD500-01 (BD-7)	
		DATE - 07-25-90	REVISED - R. SHAH 06-12-96								CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												

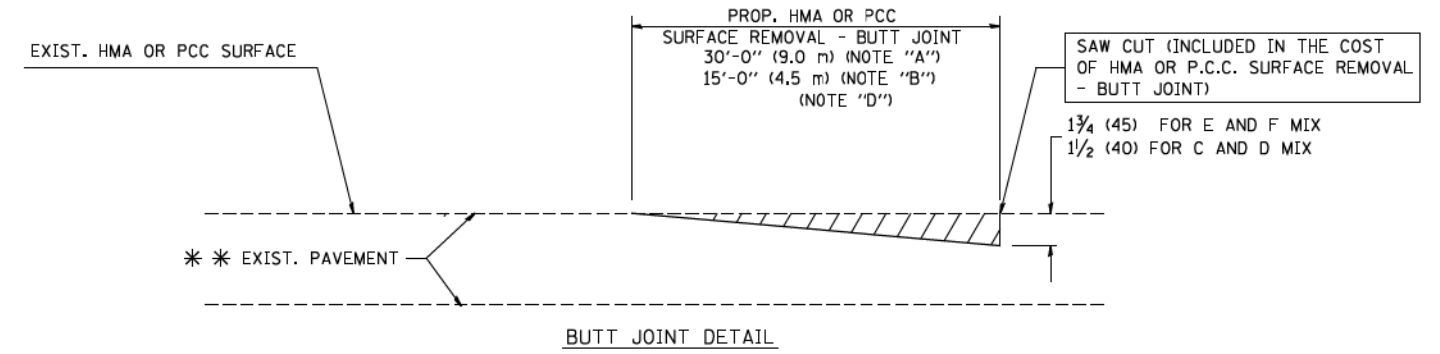


OPTION 1

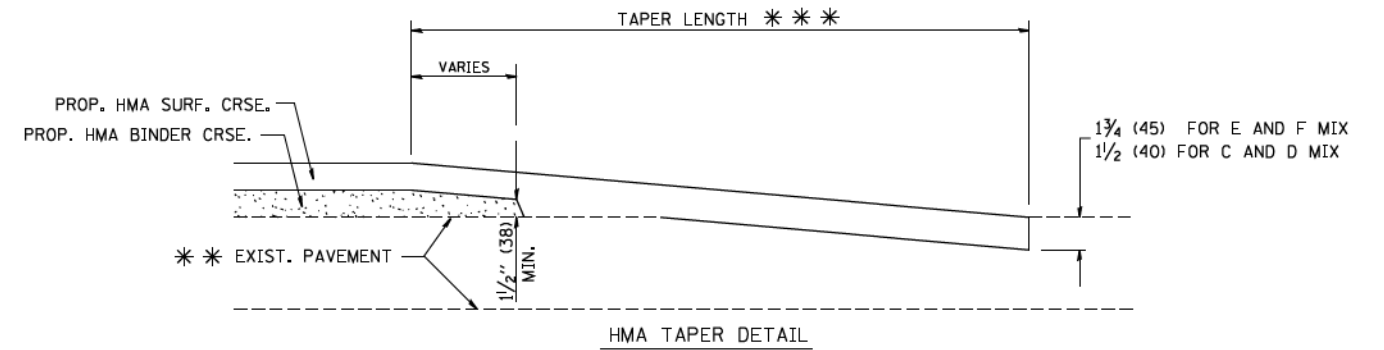


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

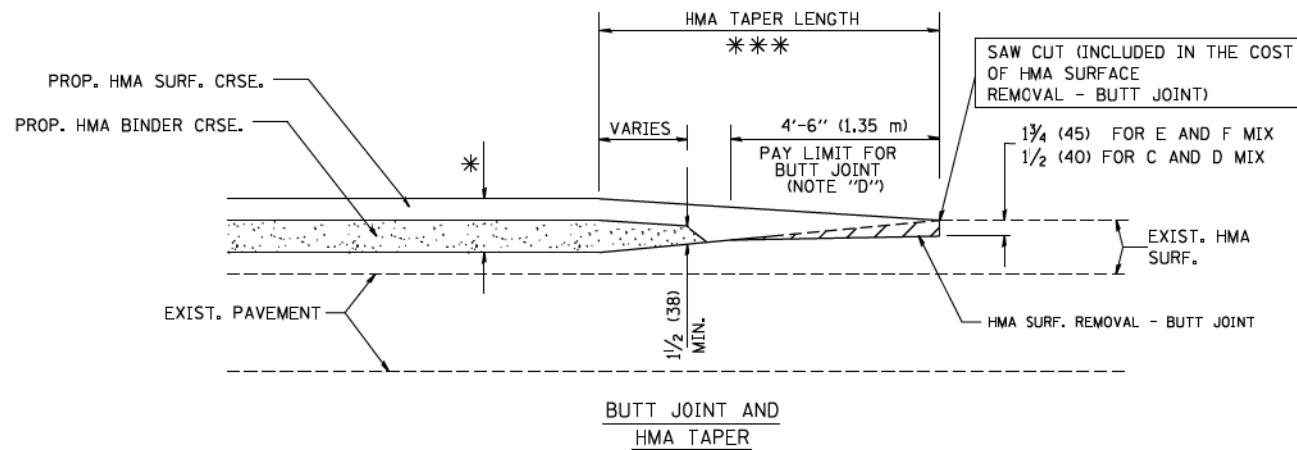
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = W:\dststd\22x34\bd32.dgn

USER NAME = gagljanobt
PLOT SCALE = 58.0000 ' / IN.
PLOT DATE = 1/4/2008

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 06-13-90

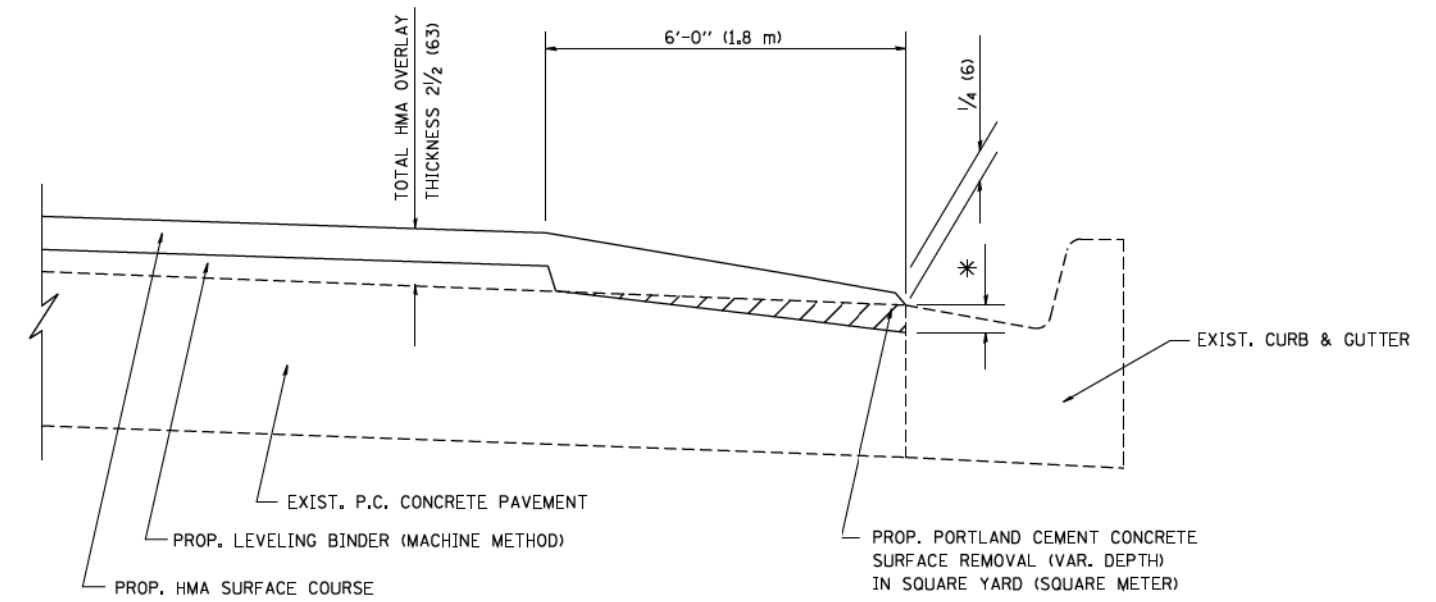
REVISED - R. SHAH 10-25-94
REVISED - A. ABBAS 03-21-97
REVISED - M. GOMEZ 04-06-01
REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	211
BD400-05 BD32			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

HMA SURFACE	LEVELING BINDER	* MILLING AT GUTTER FLAG
MIX	THICKNESS	THICKNESS
C OR D	1/2 (38)	1 (25)
F	1 3/4 (44)	3/4 (19)
		1/2 (38)

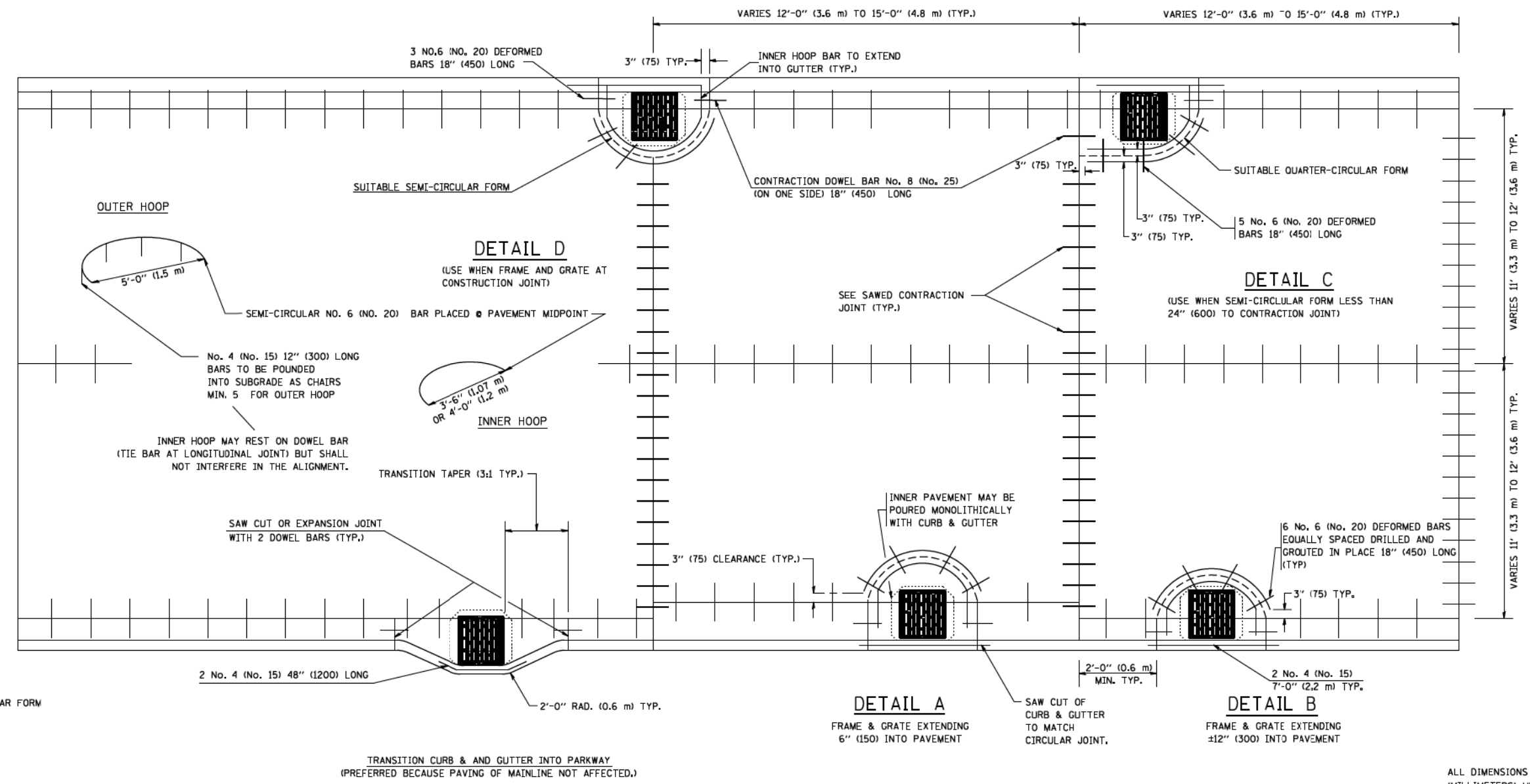
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

DESIGNER NOTE:
THIS DETAIL IS TO BE USED
WHEN THE GUTTER FLAG IS
LESS THAN 24"

NOTES :

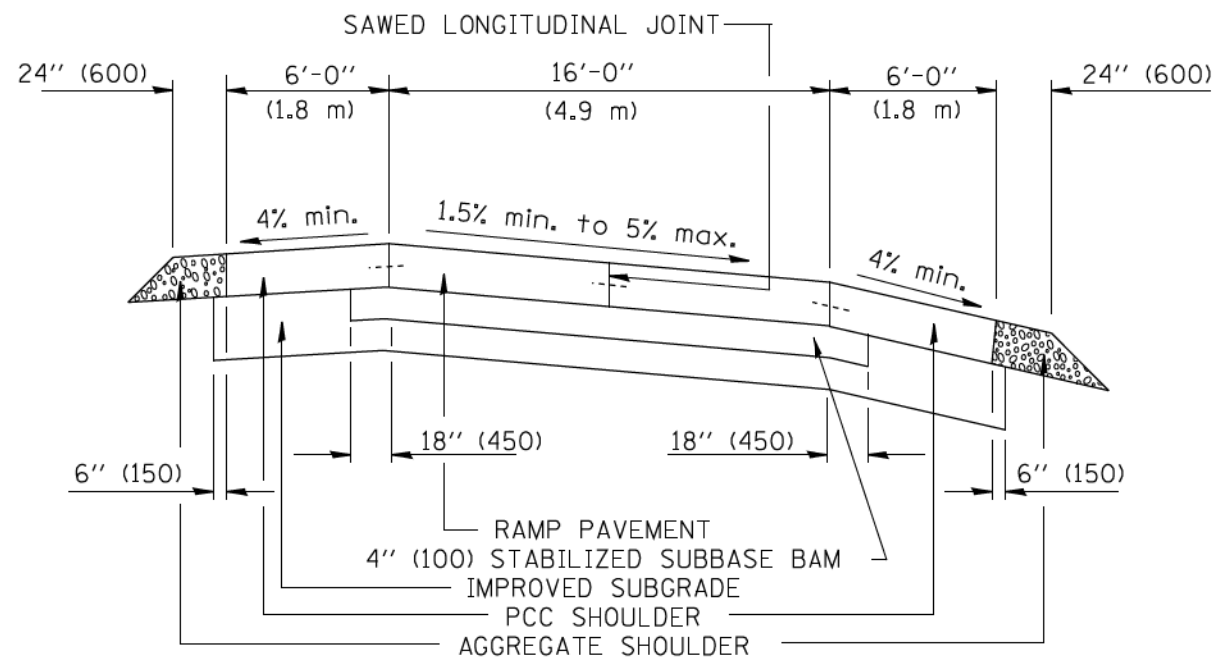
1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.



LEGEND:
..... CASTING
----- SUITABLE SEMI-CIRCULAR FORM

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

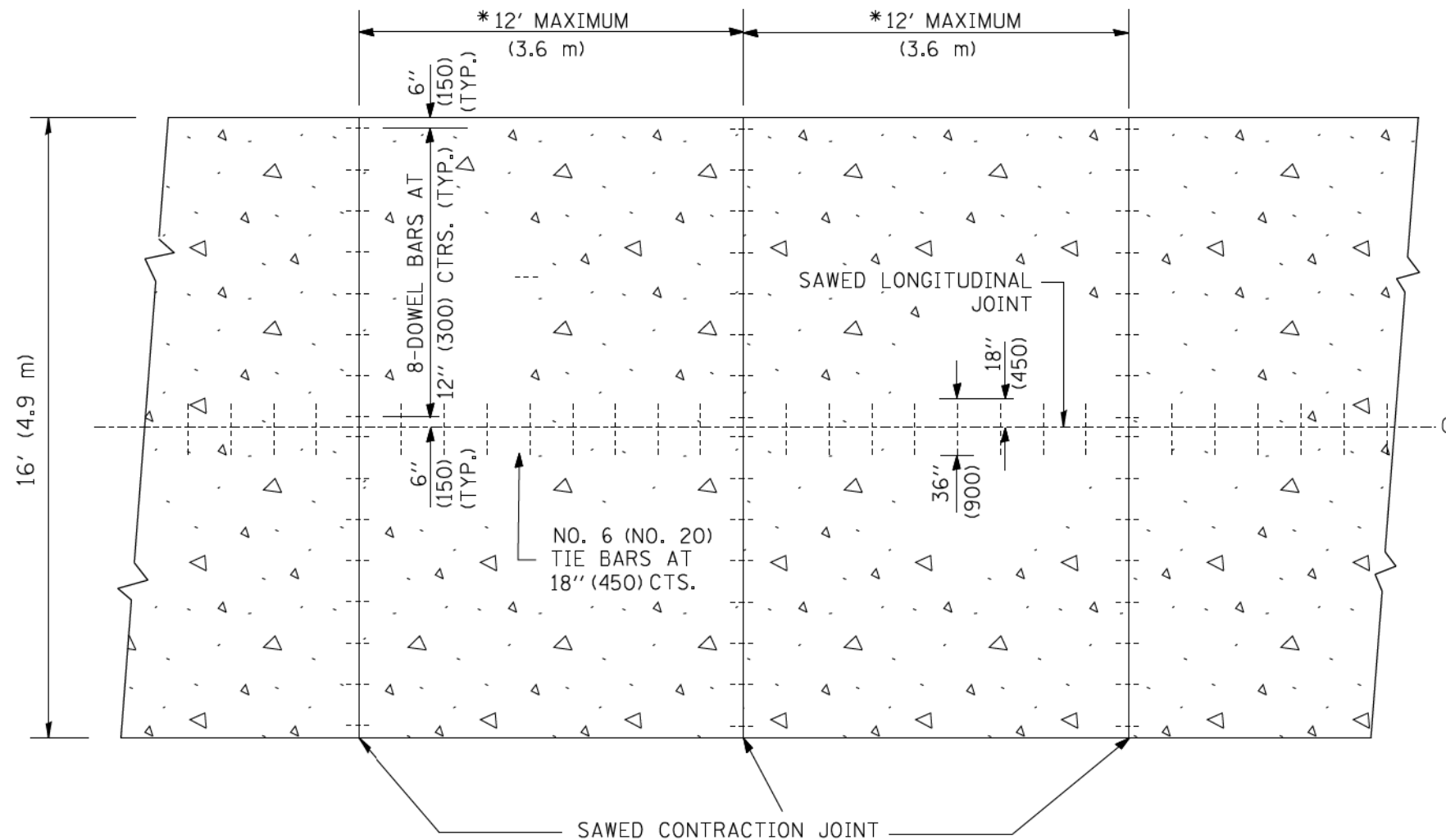
FILE NAME = W:\dststd\22x34\bd48.dgn	USER NAME = gagljanobt	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 5/8" = 1' IN.	DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BD-48	CONTRACT NO.	431	213
	PLOT DATE = 1/4/2008	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02									
		DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



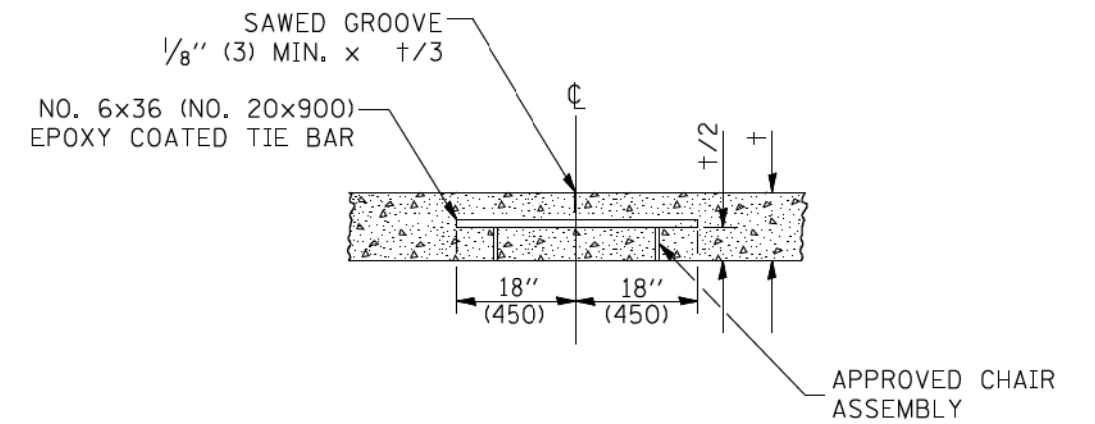
SECTION

NOTES:

1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) RAMPS AT 12' (3.6 m).
2. ALL BARS TO BE EPOXY COATED.



PLAN



SAWED LONGITUDINAL JOINT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

FILE NAME = W:\dststd\22x34\bd49.dgn

USER NAME = gagljanobt
 PLOT SCALE = 50.0000' / IN.
 PLOT DATE = 1/4/2008

DESIGNED -
 DRAWN - TOM MATOUSEK
 CHECKED - A. ABBAS
 DATE - 10-18-02

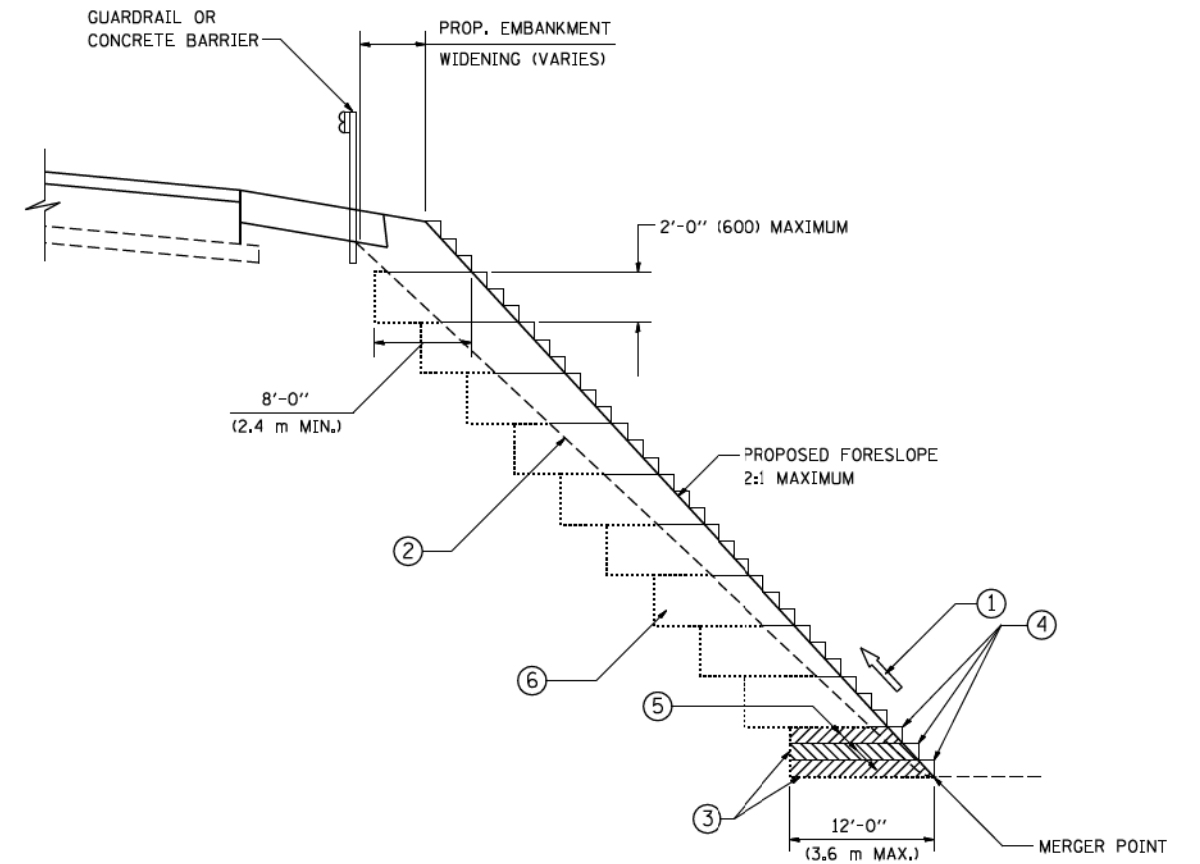
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAIL FOR CENTERLINE SAW CUT 16' (4.9 m) AND
 VARIABLE JOINTED PCC PAVEMENT FOR RAMPS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	214
BD49			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =
W:\dststd\22x34\bd51.dgn

USER NAME = gagljanobt
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN - CADD
CHECKED - S.E.B.
DATE - 06-16-04

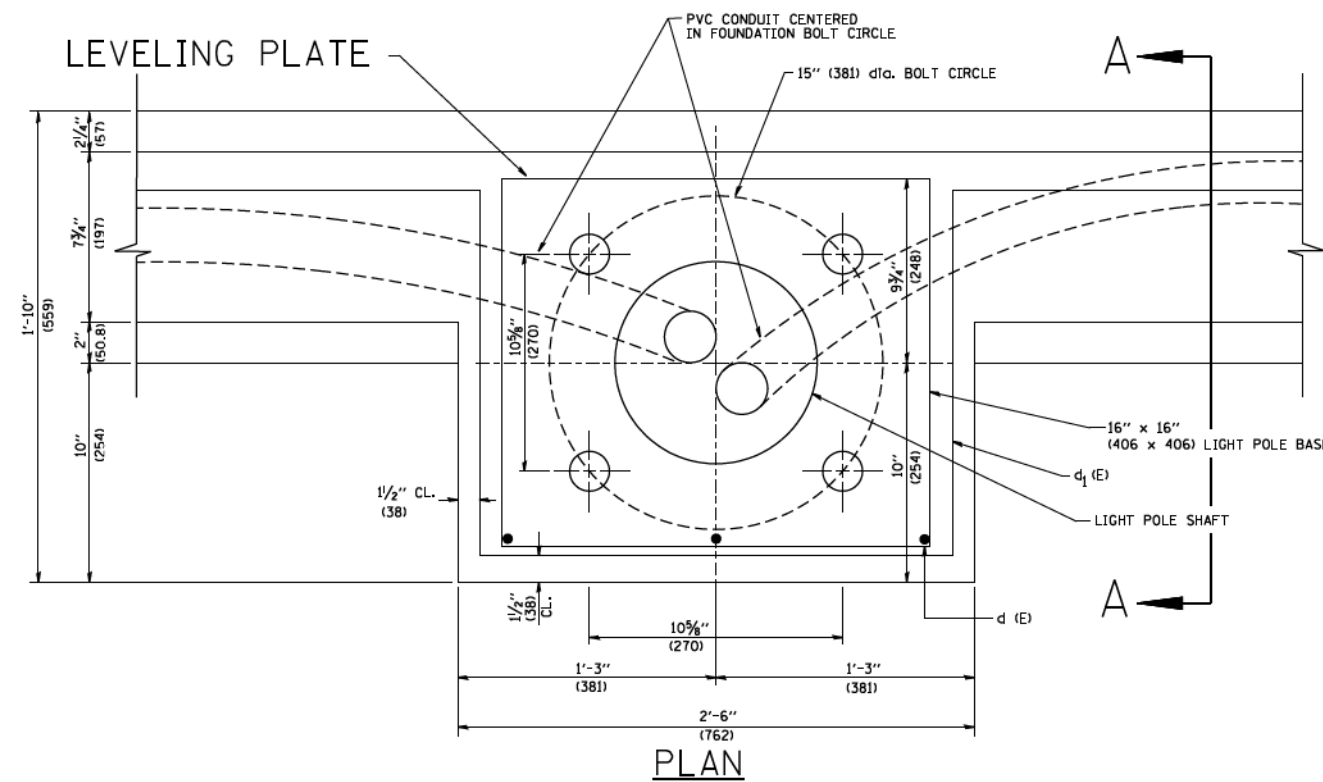
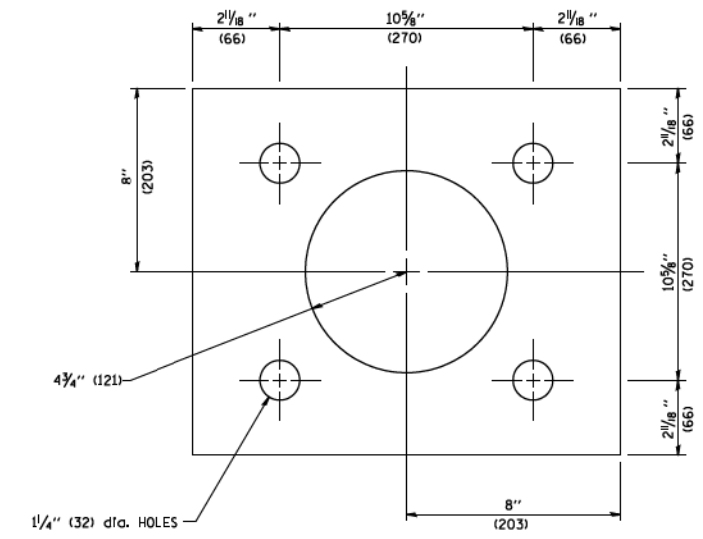
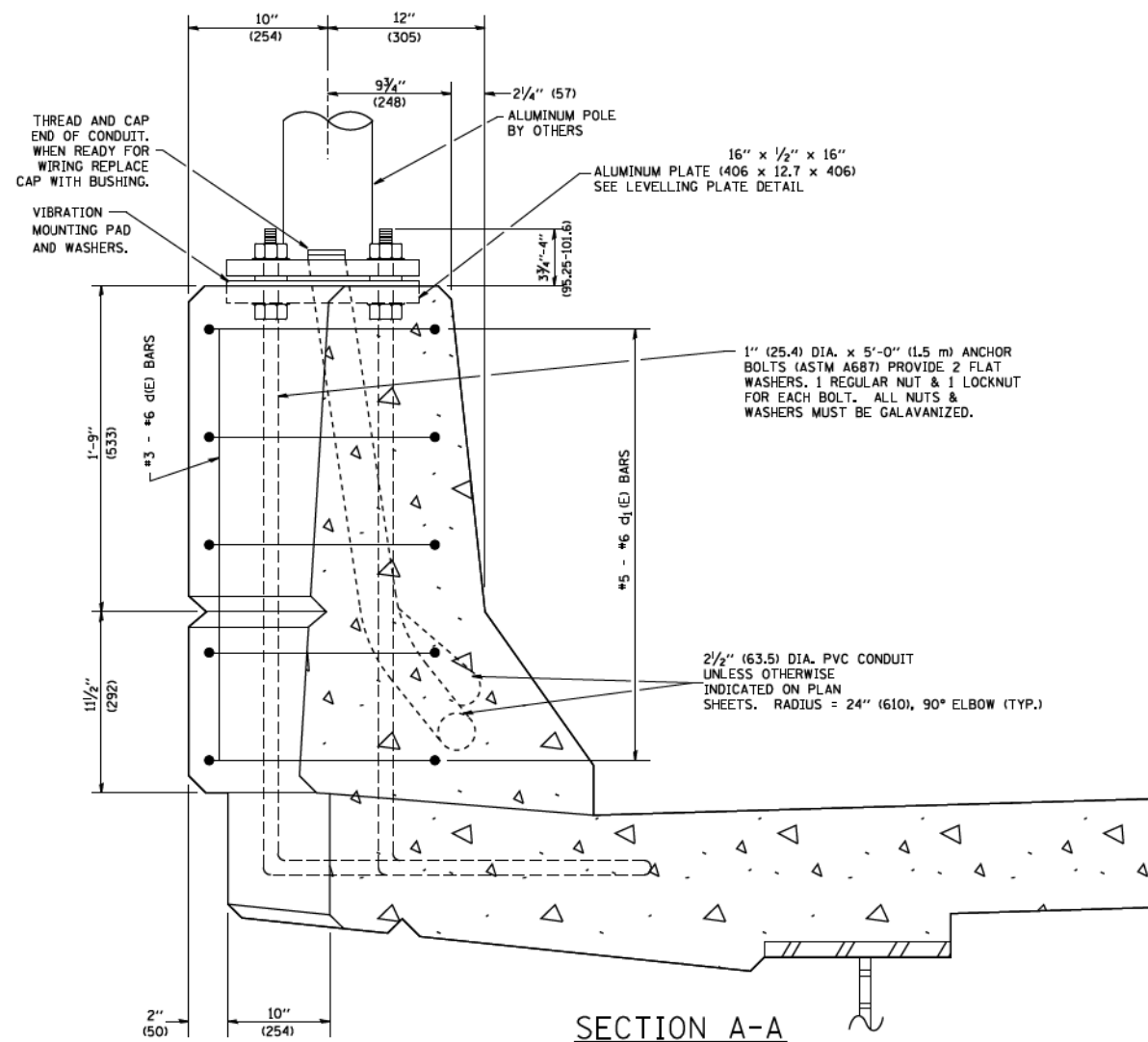
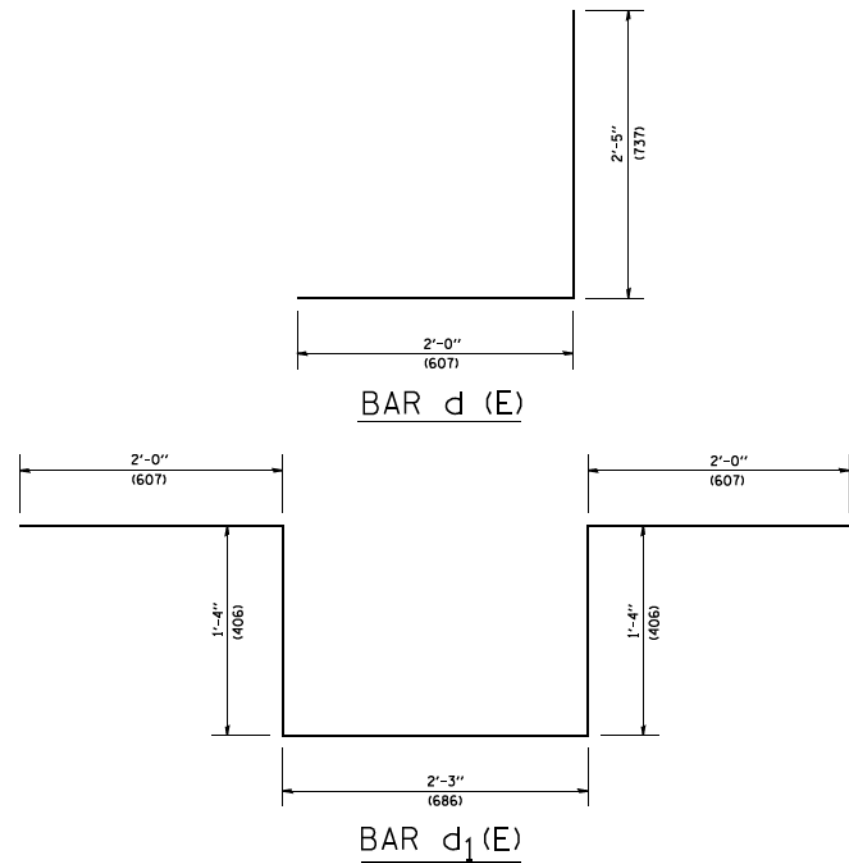
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

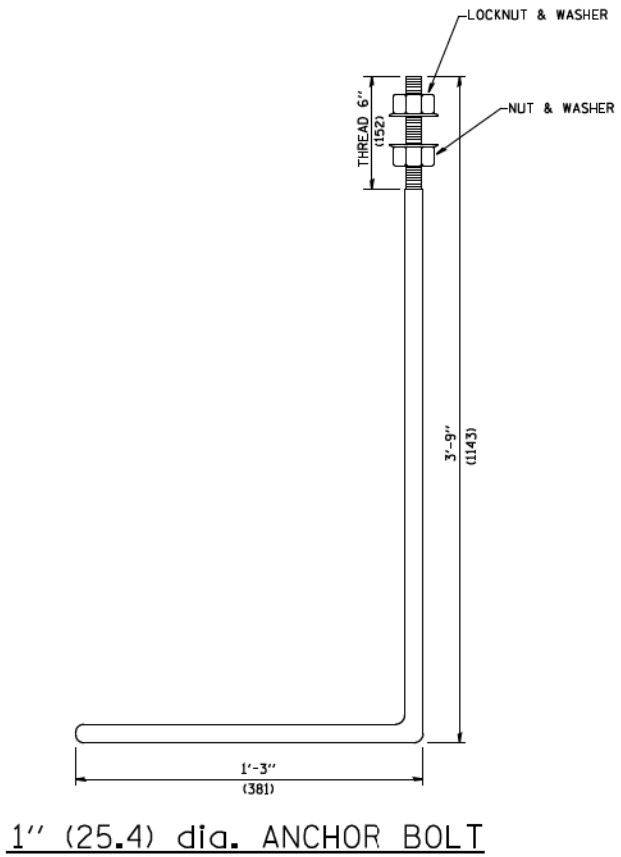
**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

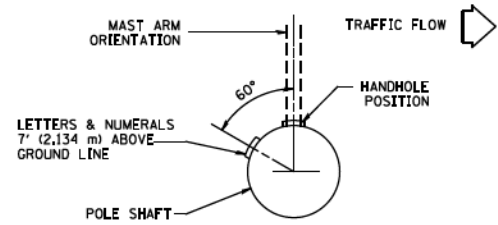
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	215
BD-51		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

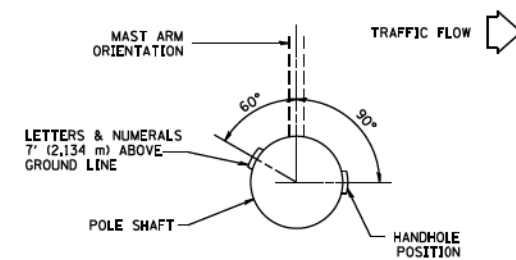


- NOTES**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. LEVEL LIGHT POLE PLATES, USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE TOP OF THE PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
 3. THE COST OF ANCHOR BOLTS, CONDUIT, LEVELLING PLATE AND FOUNDATION IS INCLUDED IN THE COST OF THE BRIDGE STRUCTURE.

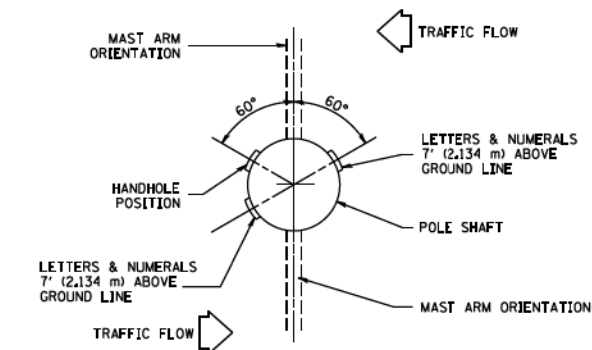




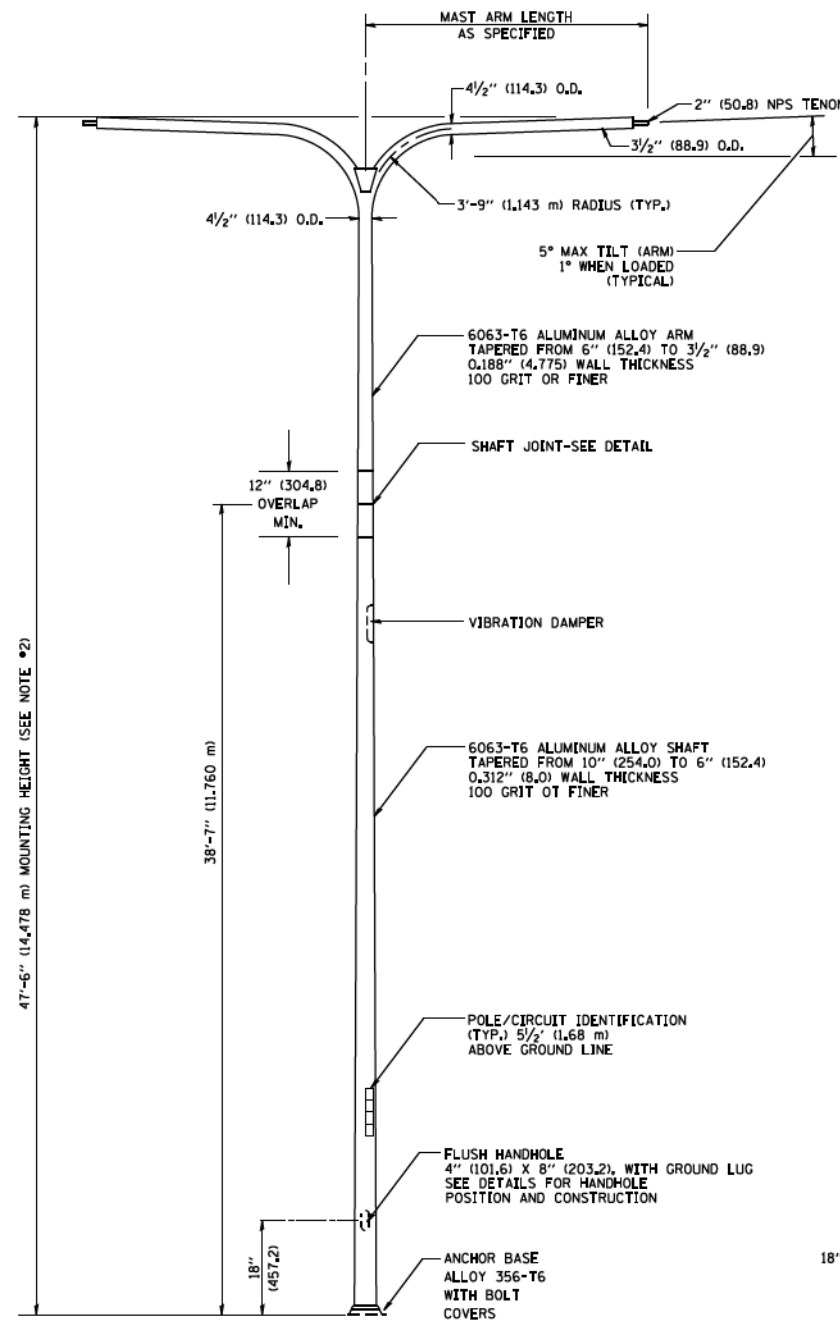
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



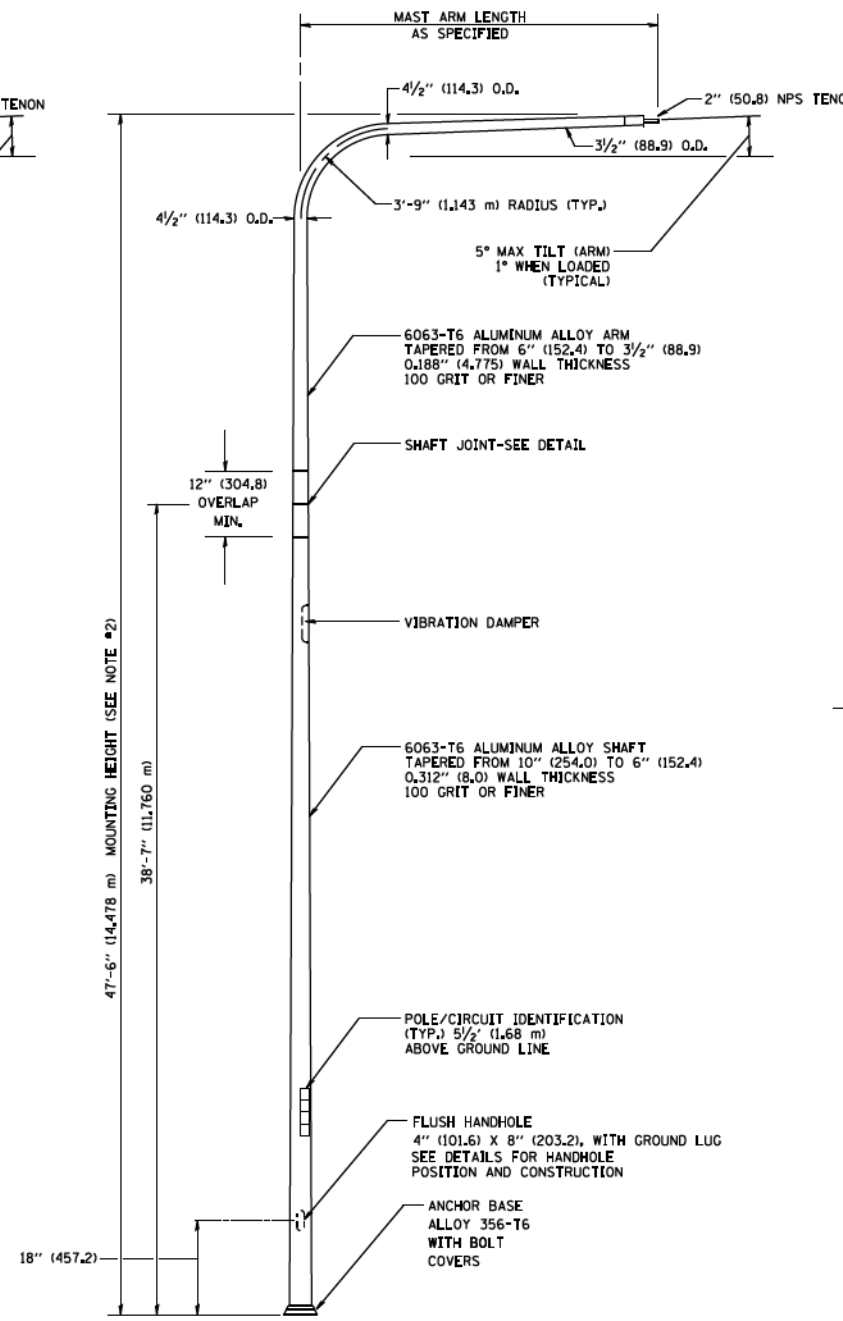
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

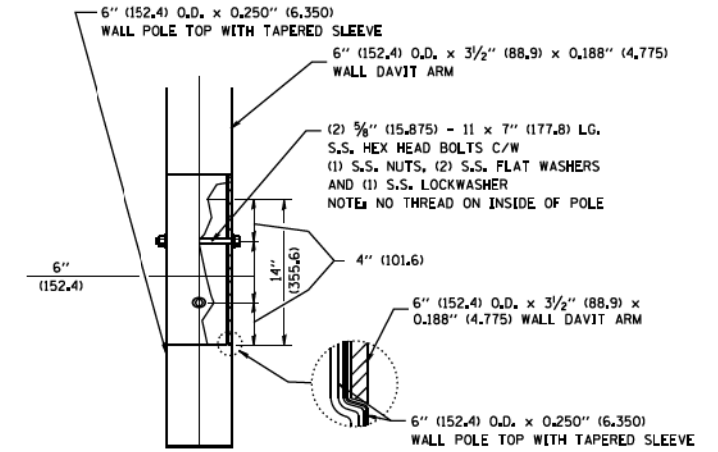


TWIN ARM POLE

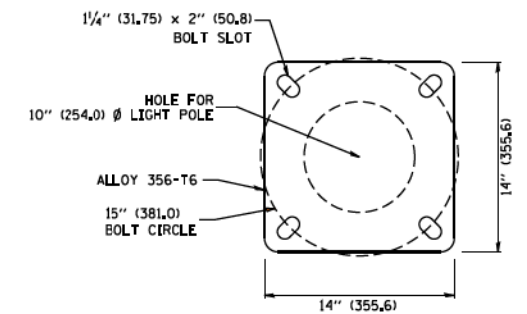


SINGLE ARM POLE

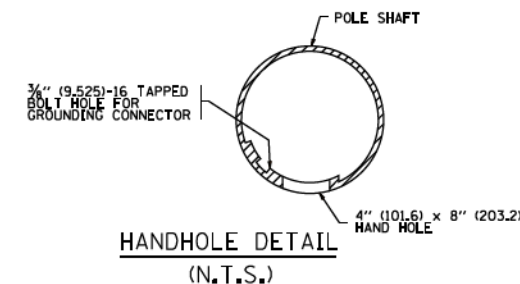
- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



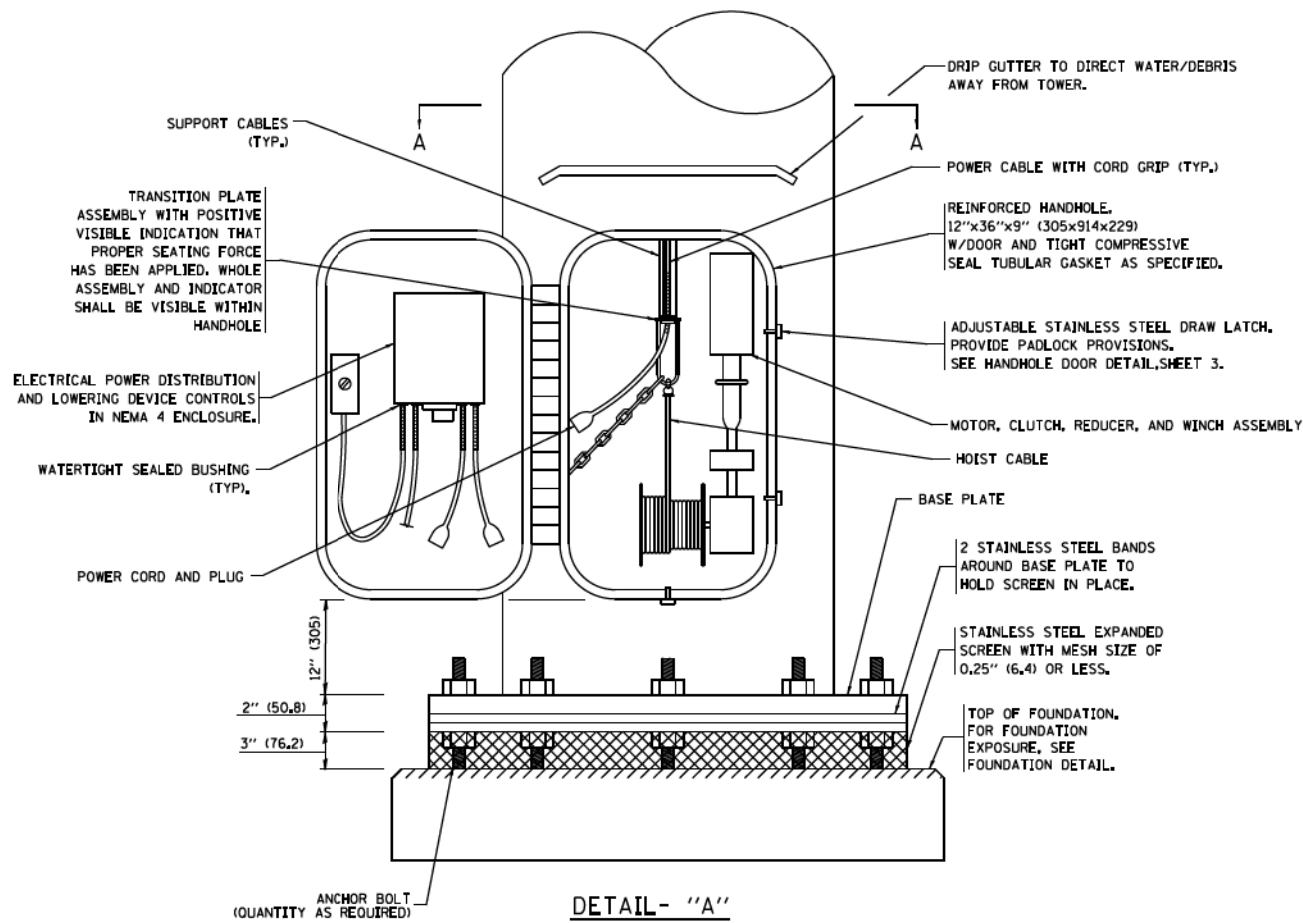
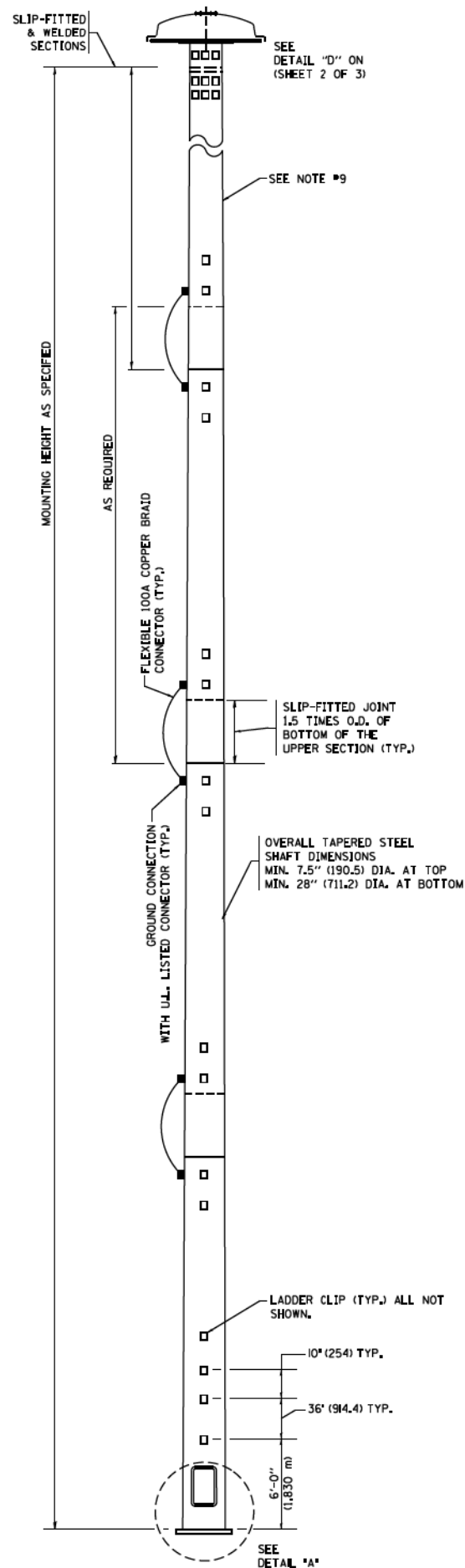
DAVIT ARM CONNECTION
[14" (355.6) OVERLAP SHOWN]



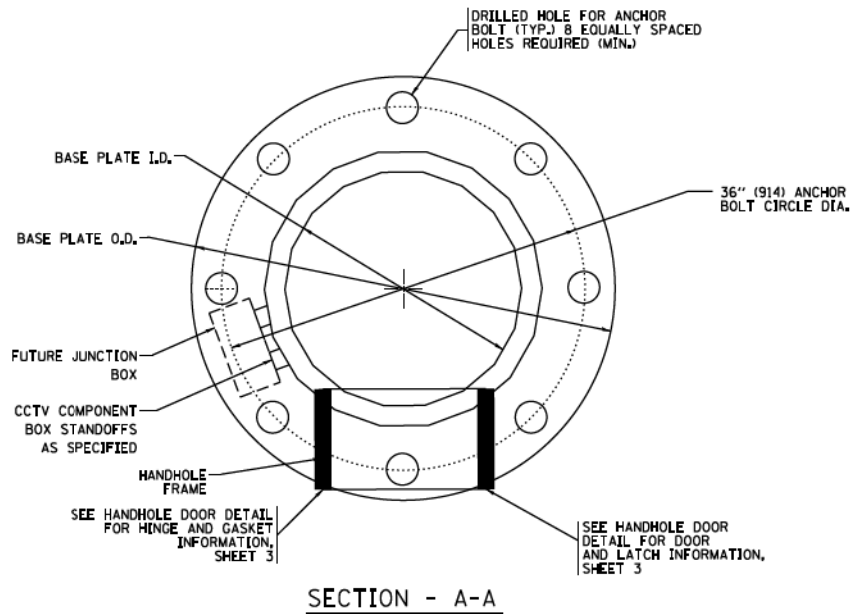
LIGHT POLE BASE PLATE DETAIL
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



FILE NAME = c:\pwork\psdot\lcyse\0108315\be410.dgn	USER NAME = lcyse	DESIGNED - DRAWN - LEY	REVISED - D. DREW 05-07-92 REVISED - R. TOMSONS 09-06-00 CHECKED - R. TOMSONS 09-02-03 REVISOR - R. TOMSONS 01-18-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DAVIT LIGHT POLE 47'-6" (14,478 m) MOUNTING HEIGHT			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS 431	SHEET NO. 217
PLOT SCALE = 50.0000 ' / in.	PLOT DATE = 4/4/2013	DATE -	REVISOR - R. TOMSONS 01-18-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BE-410 CONTRACT NO. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DETAIL - "A"
3 CABLE LOWERING & SUPPORT MECHANISM SHOWN.

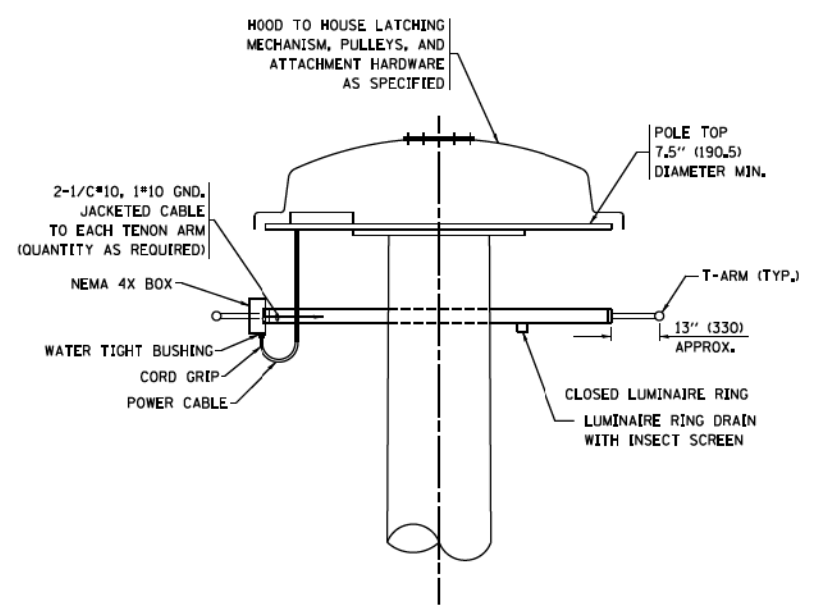


SECTION - A-A

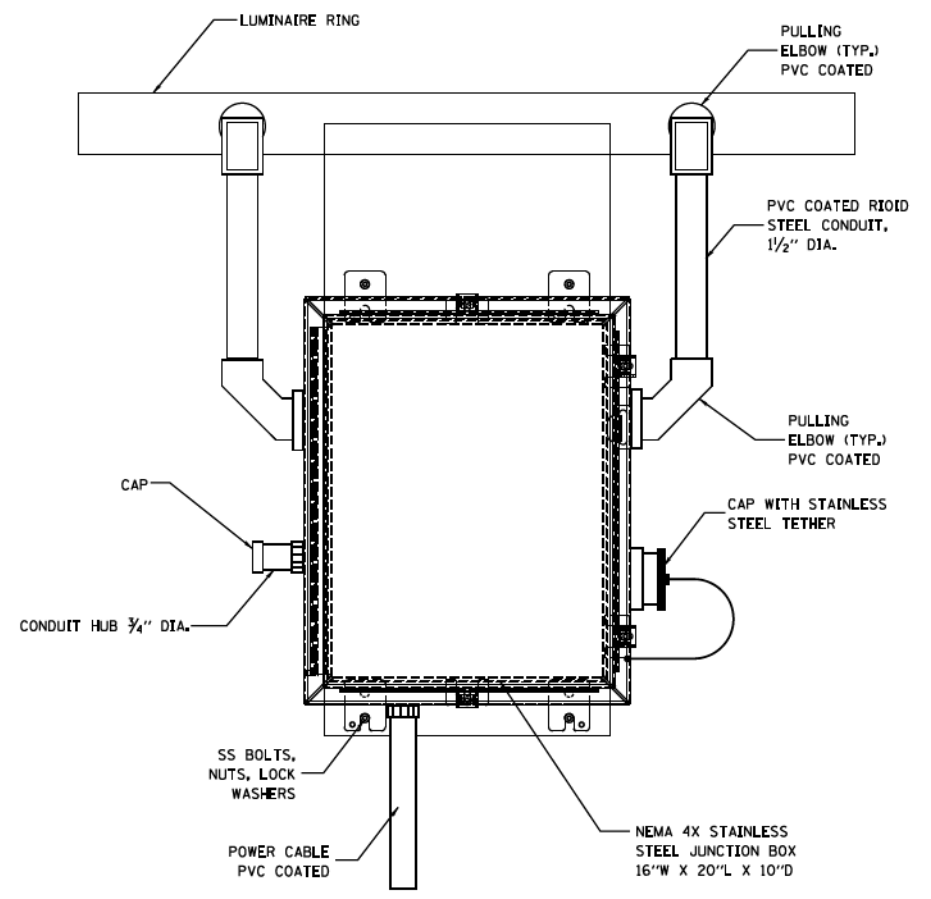
NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE DESIGN SHALL BE BASED UPON AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" CURRENT AT THE TIME THE PROJECT IS ADVERTISED AND A TOTAL COMBINED LUMINAIRE WEIGHT OF 720 LBS. (326 kg) AND HAVING A TOTAL PROJECTED AREA OF 24 SQ. FT. (7.3 sq. m).
3. ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 223 (ASTM A 572 GR50).
4. THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
5. THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 1.8 m (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
6. A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
7. ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
8. THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123) AND THEN PAINTED AS SPECIFIED. THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED.
9. THE FINISH COAT SHALL BE ANSI 70, SKY GREY COLOR SAMPLE TO BE SUBMITTED FOR APPROVAL.
10. ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/L.
11. THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
12. PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
13. COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

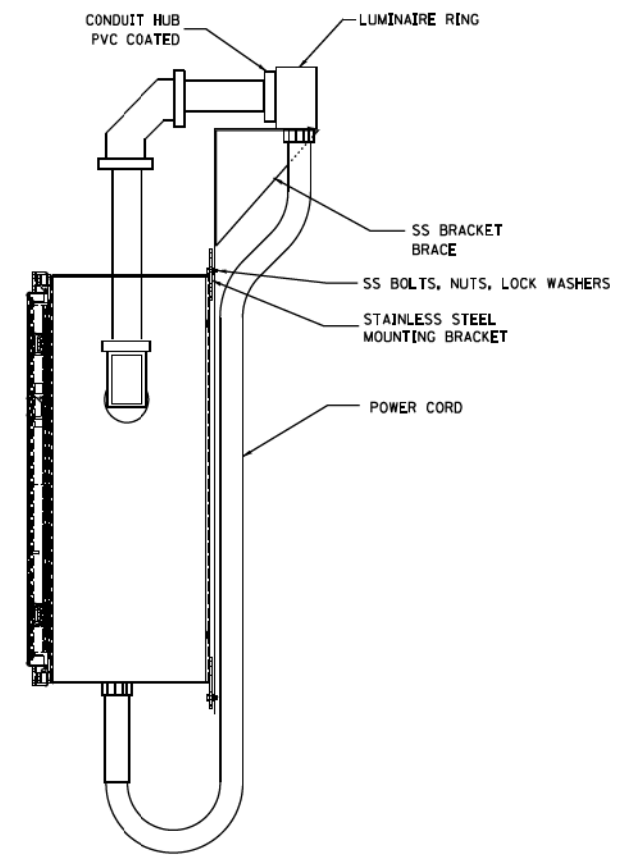
FILE NAME = c:\pwork\psdot\baurd\100100315\be505.dgn	USER NAME = baurd1	DESIGNED - DRAWN -	REVISED - 09-02-03 REVISED - 03-22-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER 120 FT TO 140 FT (36 m TO 43 m)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS 431	SHEET NO. 218
PLOT SCALE = 5/8"=1'-0"	CHECKED -	REVISIED - 09-02-10	REVISIED - 02-27-13		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	BE-505		CONTRACT NO.	
PLOT DATE = 2/27/2013	DATE -	REVISIED - 02-27-13			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



DETAIL-"D"

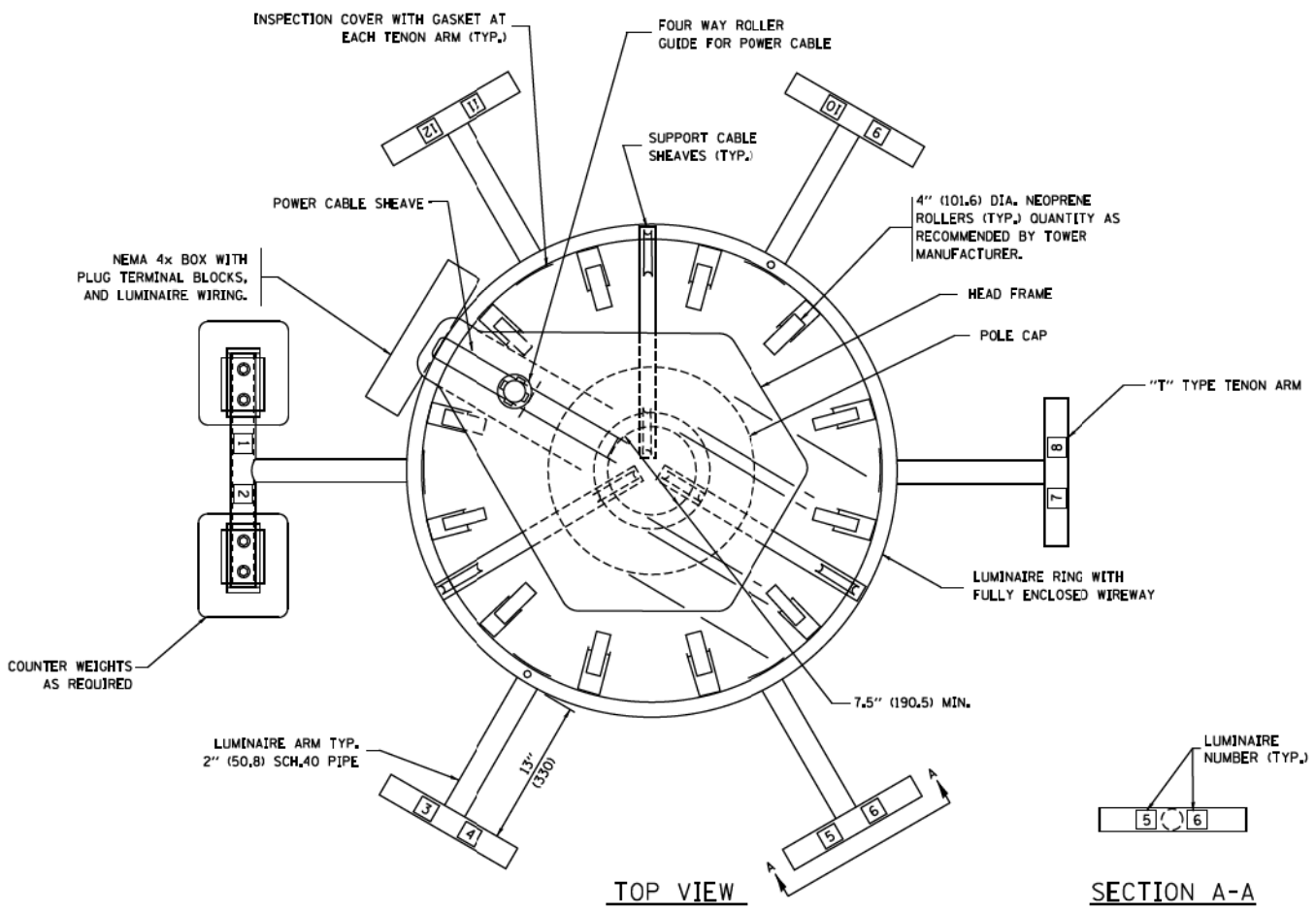


FRONT VIEW
N.T.S.



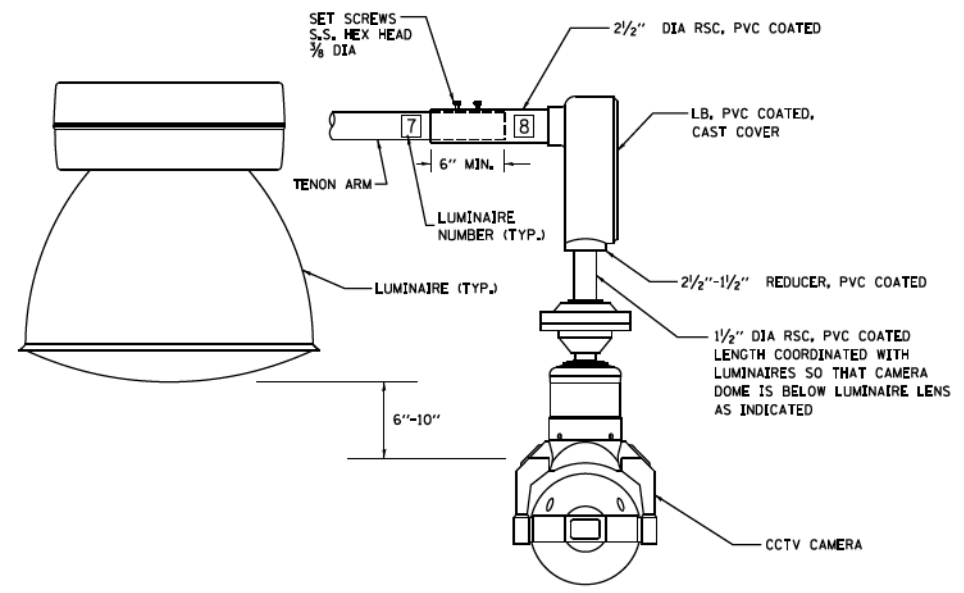
SIDE VIEW
N.T.S.

LUMINAIRE RING TERMINAL BOX



TOP VIEW

SECTION A-A

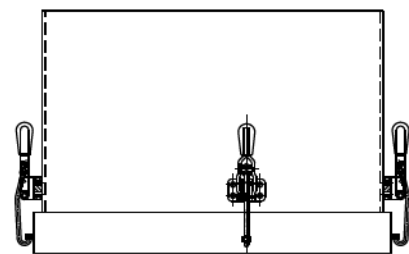


CCTV CAMERA MOUNTING DETAIL

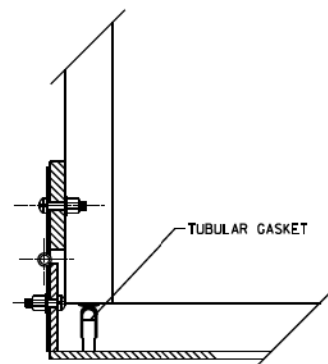
NOTES:

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609 mm) LONGER THAN THEIR RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPlicing WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.

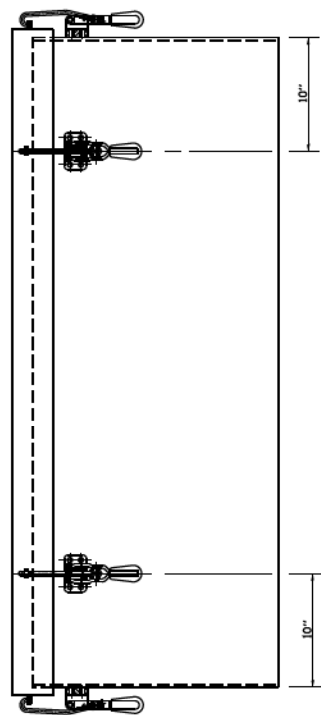
FILE NAME =	USER NAME = bauerdl	DESIGNED -	REVISED - 09-02-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER 120 FT TO 140 FT (36 m TO 43 m)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
alpha\work\ps\dot\bauerdl\0108315\be505.dgn		DRAWN -	REVISED - 03-22-10		SCALE: NONE	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	BE-505			431	219
		CHECKED -	REVISED - 09-02-10										
		DATE -	REVISED - 02-27-13										
								CONTRACT NO.					
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



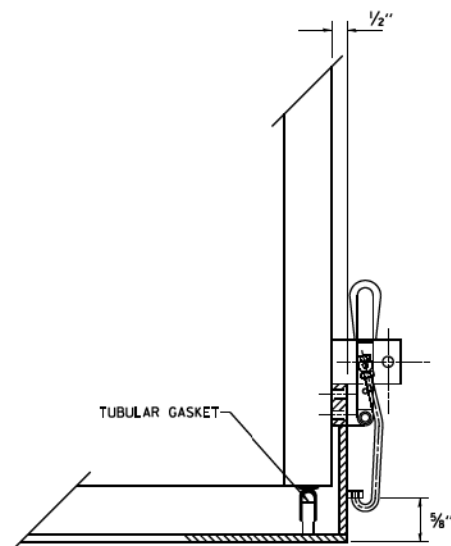
TOP VIEW



HINGE DETAIL

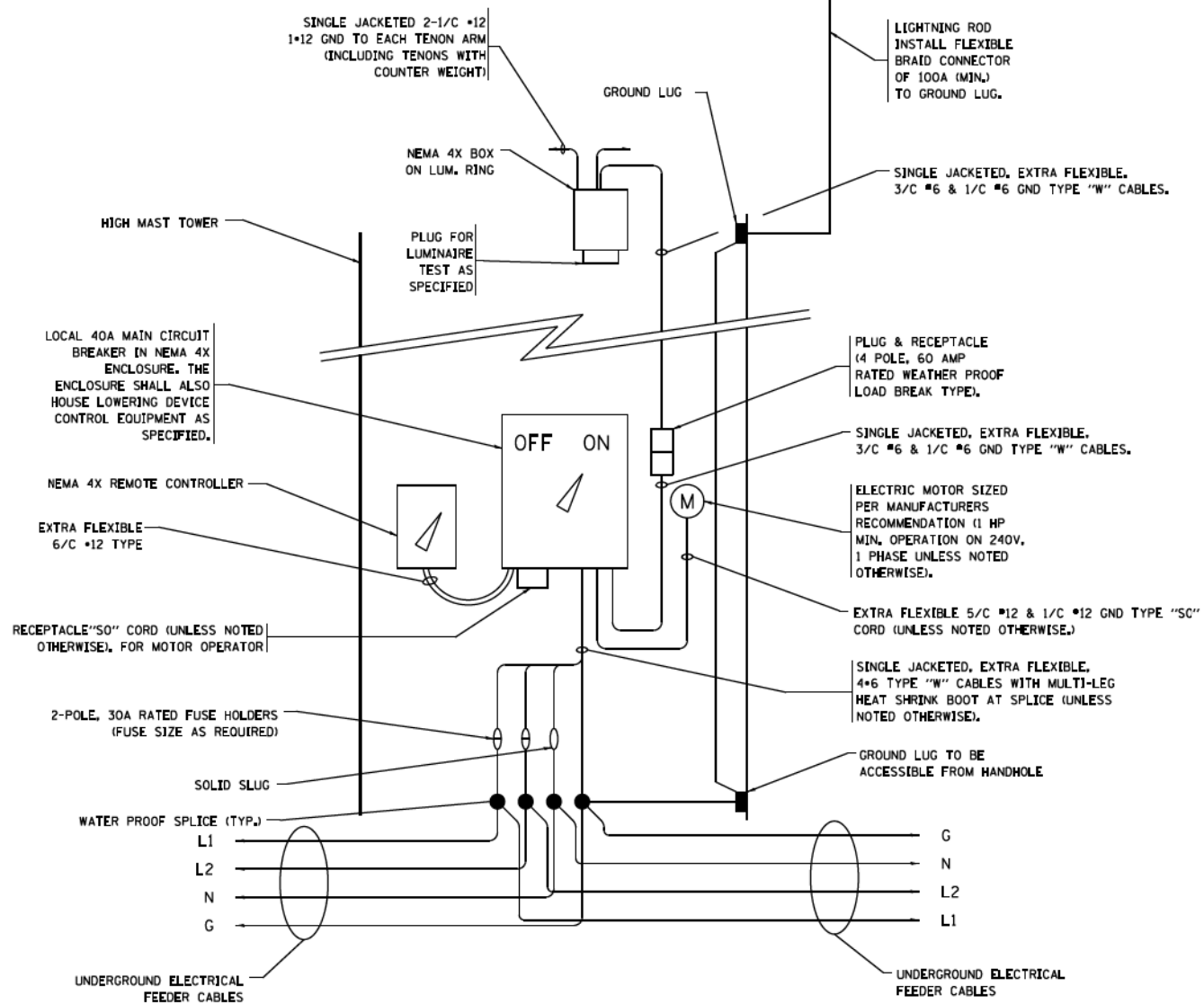


SIDE VIEW

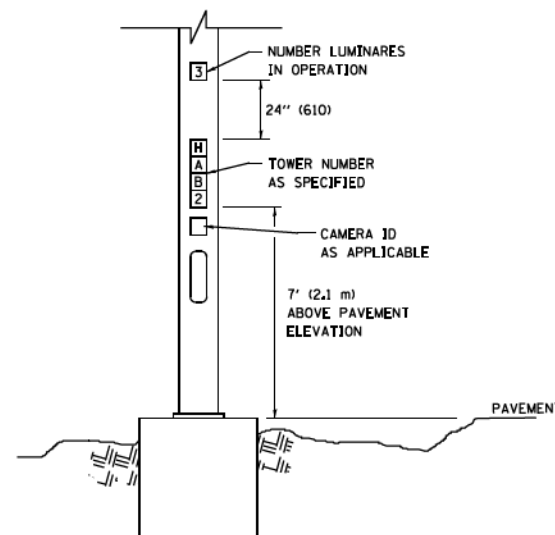


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = bauerdl	DESIGNED -	REVISED - 09-02-03
c:\ps_work\ps\d01\baerd1\d0108315\be505.dgn		DRAWN -	REVISED - 03-22-10
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED - 09-02-10
PLOT DATE = 2/27/2013		DATE -	REVISED - 02-27-13

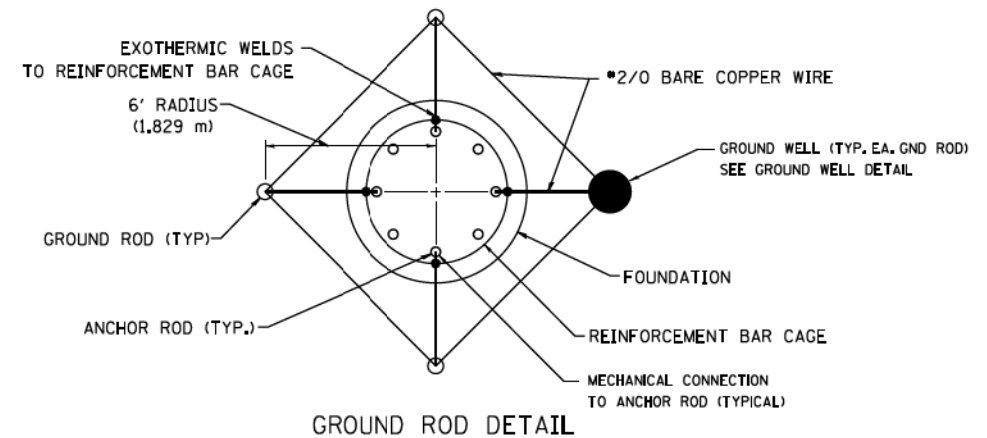
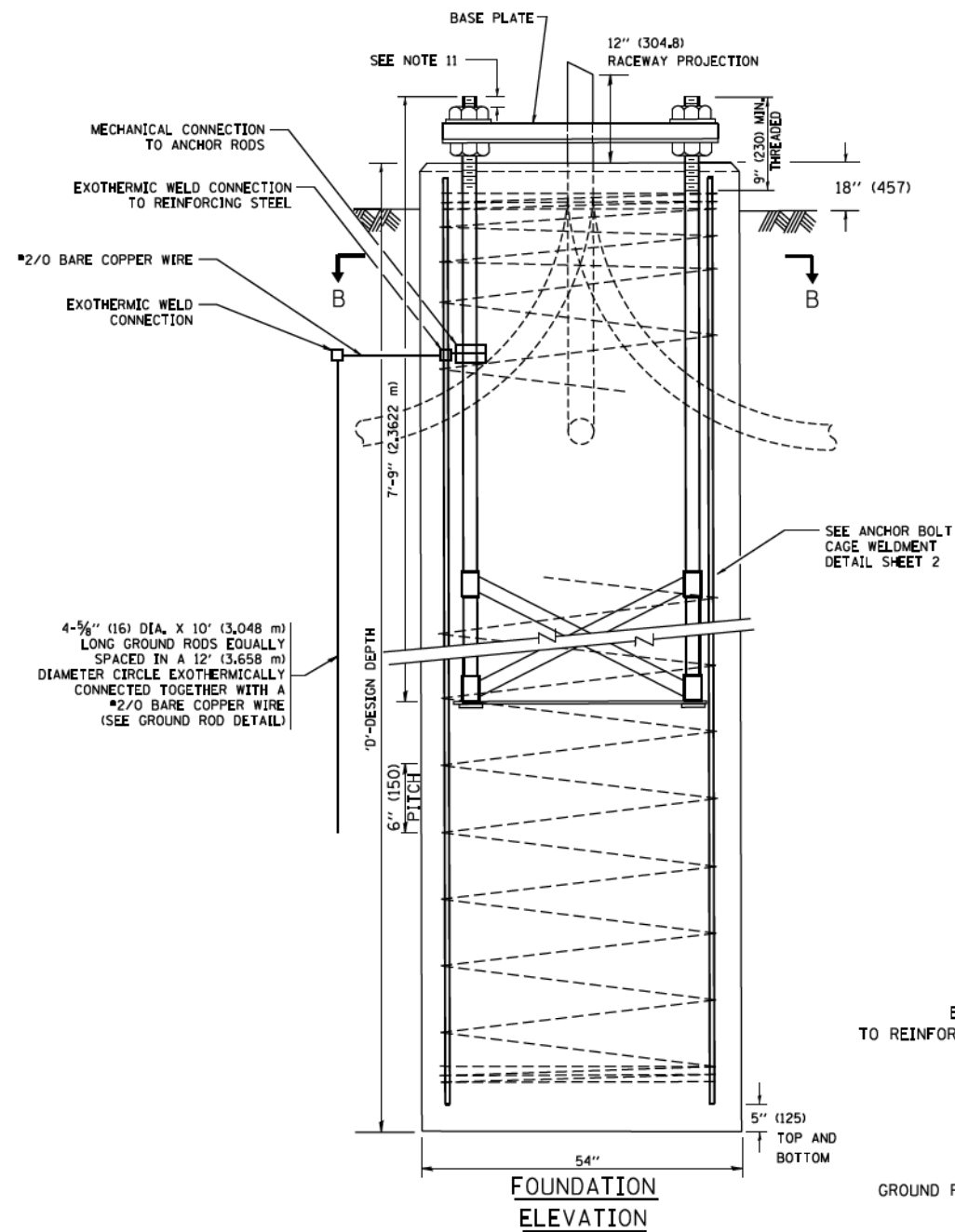
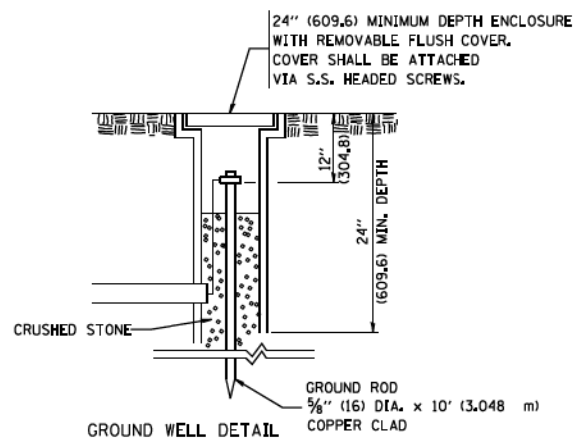
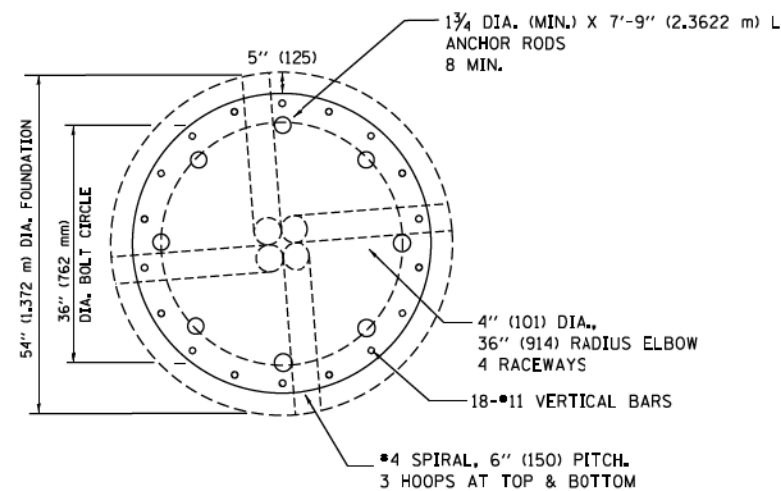
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
120 FT TO 140 FT (36 m TO 43 m)

SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-505		431	220
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO.	

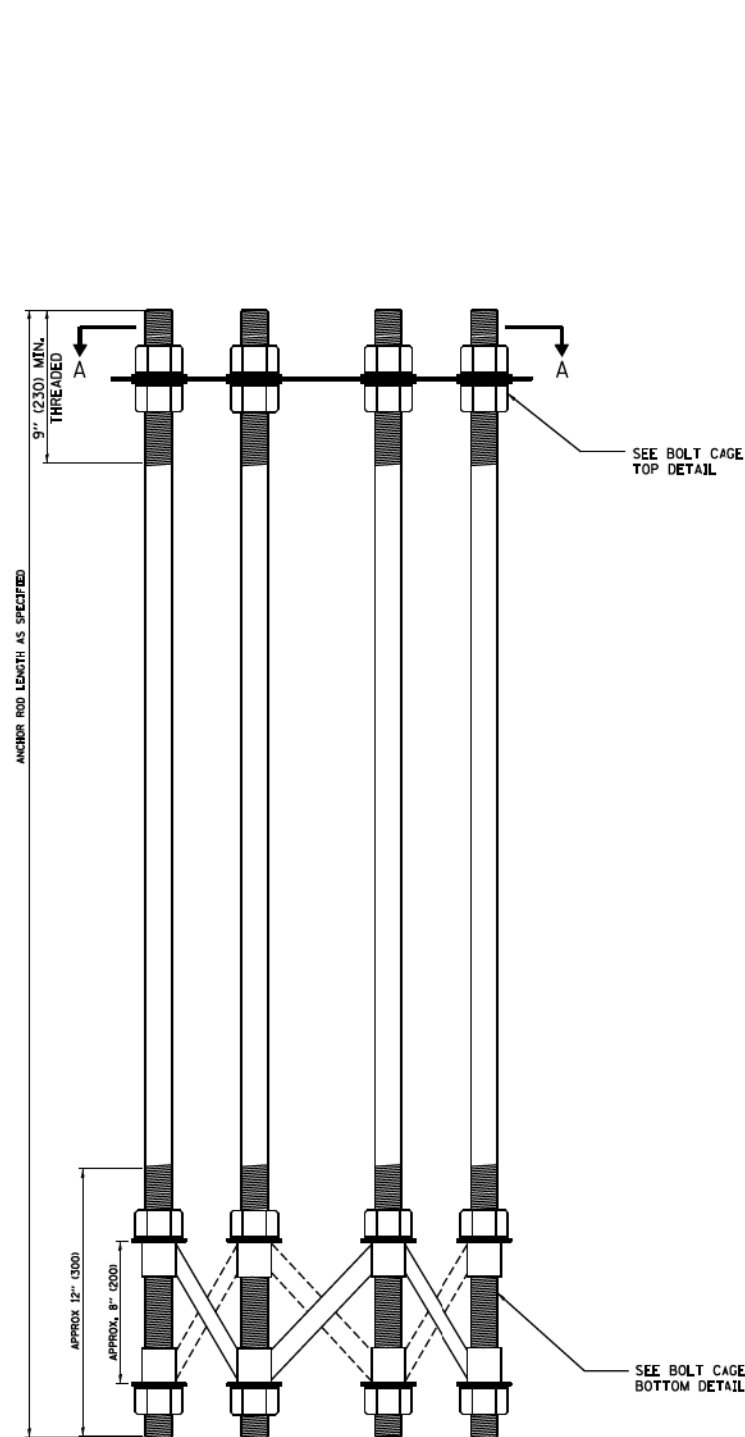
SOIL CONSISTENCY		SHAFT LENGTH (D) TABLE			
		AVERAGE STRENGTH	LIGHT TOWER MOUNTING HEIGHT		
		Q_u In tsf (Q_u In kPa)	120 FT. (37 m)	130 FT. (40 m)	140 FT. (43 m)
SOFT		<0.5 (<50)	25'-0" (7.6 m)	26'-6" (8.0 m)	27'-6" (8.3 m)
	MEDIUM	0.5 TO 1 (50 to 100)	20'-6" (6.2 m)	21'-6" (6.4 m)	22'-0" (6.7 m)
COHESIVE	STIFF	1 TO 2 (100 TO 200)	17'-6" (5.2 m)	18'-0" (5.4 m)	18'-6" (5.5 m)
	VERY STIFF	2 TO 4 (200 TO 400)	15'-0" (4.5 m)	15'-6" (4.6 m)	16'-0" (4.7 m)
HARD		>4 (>400)	13'-6" (4.0 m)	13'-6" (4.1 m)	14'-0" (4.2 m)
		N In BLOWS/FT. (N In BLOWS/0.3m)			
VERY LOOSE		<5 (<5)	19'-0" (6.3 m)	20'-0" (6.0 m)	20'-6" (6.2 m)
	LOOSE	5 TO 10 (5 TO 10)	17'-6" (5.7 m)	18'-0" (5.5 m)	18'-6" (5.6 m)
GRANULAR	MEDIUM	10 TO 25 (10 TO 25)	16'-6" (5.5 m)	17'-0" (5.2 m)	17'-6" (5.3 m)
	DENSE	25 TO 50 (25 TO 50)	15'-6" (5.2 m)	16'-6" (4.9 m)	16'-6" (5.0 m)
VERY DENSE		>50 (>50)	15'-0" (4.5 m)	15'-6" (4.7 m)	16'-0" (4.8 m)



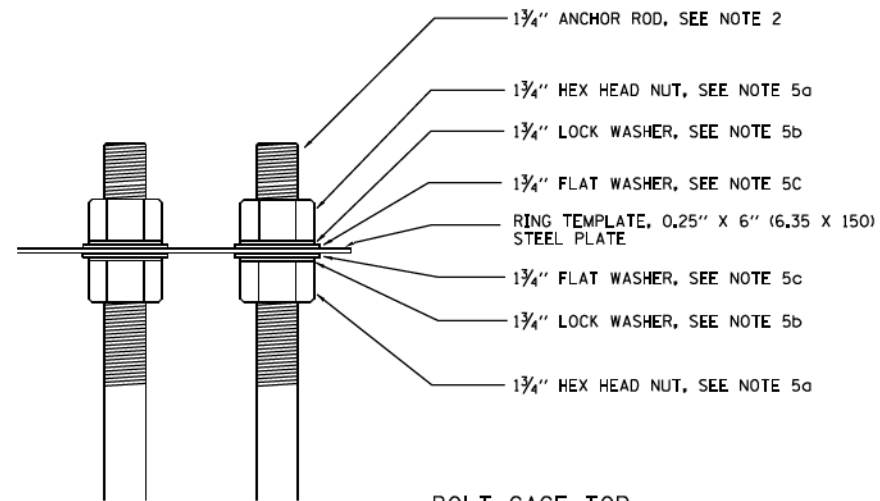
DESIGN NOTES

- (1) ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- (2) THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- (3) THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- (4) THE TOP OF THE FOUNDATION TO 18" (450) BELOW GRADE SHALL BE FORMED.
- (5) SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- (6) THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- (7) ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- (8) ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- (9) REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- (10) TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- (11) A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- (12) ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- (13) CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- (14) ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- (15) COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- (16) THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

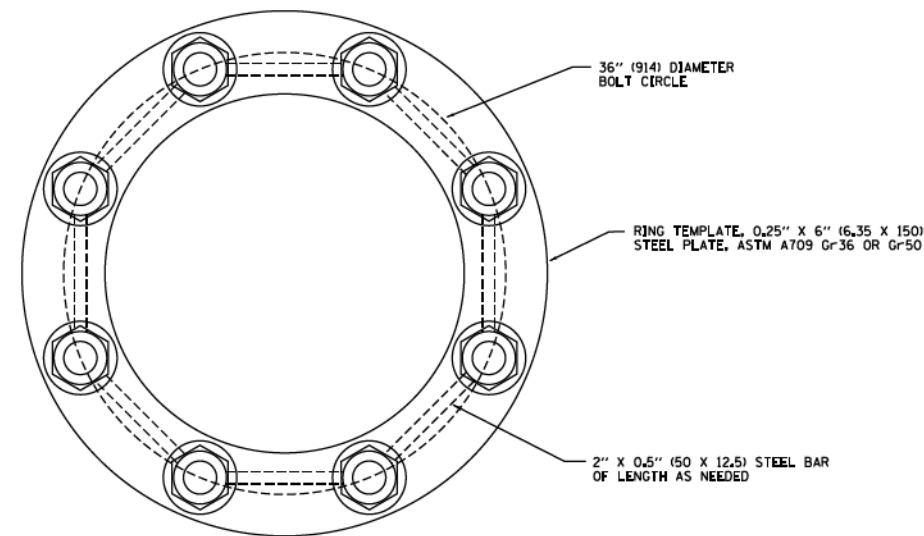
FILE NAME =	USER NAME = bauerdl	DESIGNED - R. TOMSONS	REVISED - R. TOMSONS 09-02-10	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\ps_work\ps\dot\bauerdl\d0108315\be506.dgn		DRAWN -	REVISED - R. TOMSONS 02-27-13		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	BE-506		431	221
PLOT SCALE = 50.000' / 1"		CHECKED -	REVISED -					CONTRACT NO.				
PLOT DATE = 2/27/2013		DATE - 03-12-10	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



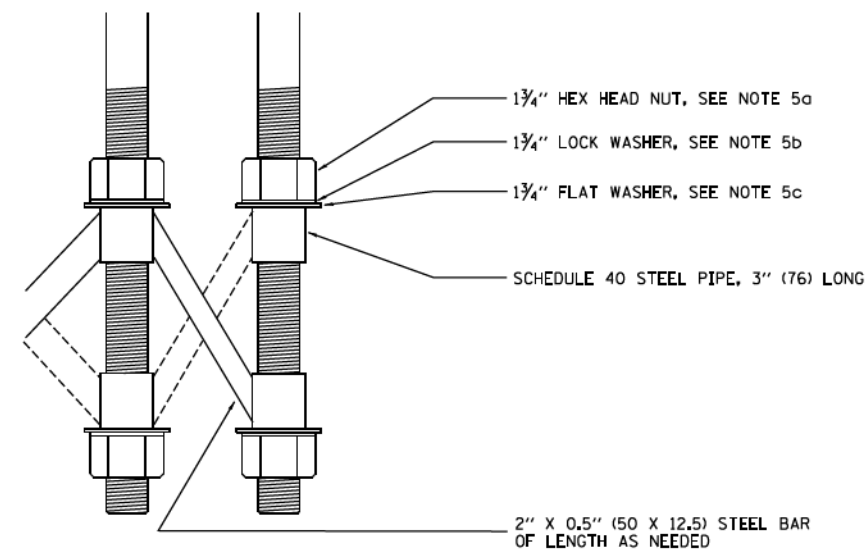
ANCHOR BOLT CAGE



BOLT CAGE TOP



SECTION A-A



BOLT CAGE BOTTOM

NOTES

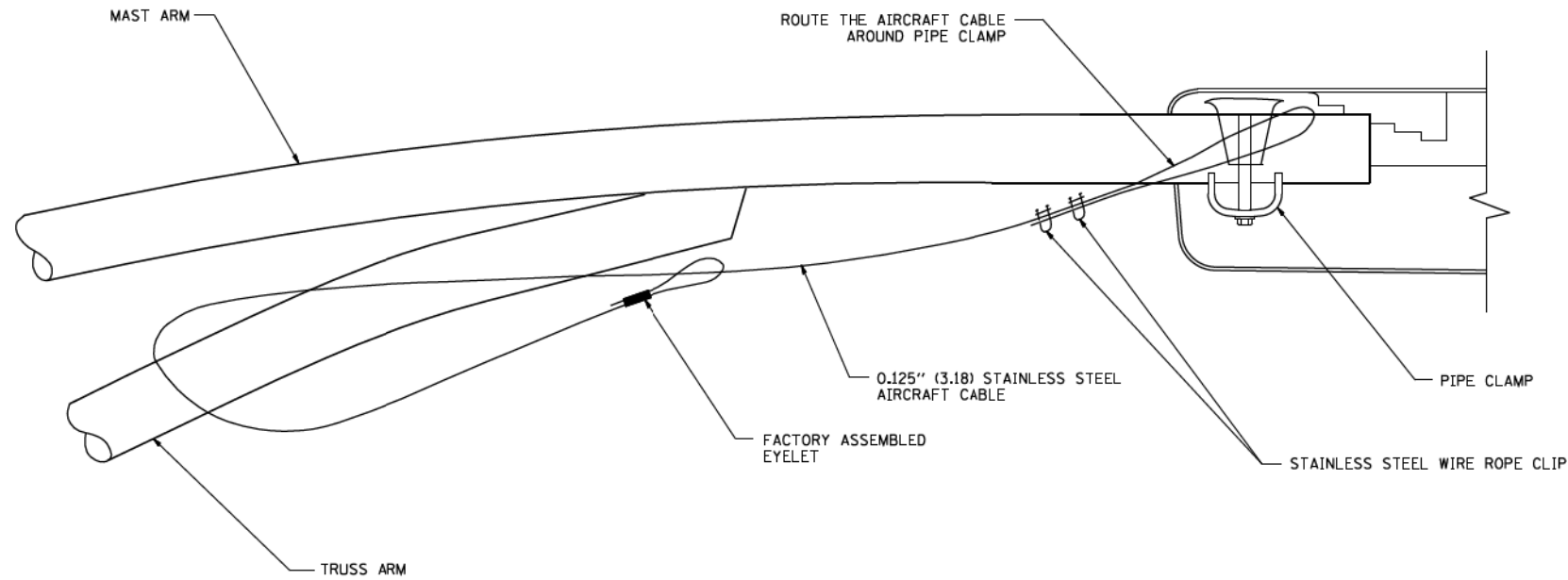
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO AASHTO M 314 OR ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS.
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - a) 1 3/4" HEX HEAD NUTS
AASHTO M291, GRADE C, C3, D, DM OR DH3
HOT DIPPED GALVANIZED AASHTO M 232
 - b) 1 3/4" HELICAL LOCK WASHERS
ANSI/ASME B18.21.1
I.D. 1.758 - 1.778
O.D. 2.596 MAX.
WIDTH 0.383 MIN.
THICKNESS 0.469 MIN.
HARDNESS 26-45 ROCKWELL C
HOT DIPPED GALVANIZED AASHTO M232
 - c) 1 3/4" FLAT WASHERS
AASHTO M293
O.D. 3.25
I.D. 1.875
THICKNESS 0.16 - 0.25
HARDNESS 26-45 ROCKWELL C.
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

FILE NAME = c:\ps_work\ps\dot\bauerdl\0108315\be506.dgn	USER NAME = bauerdl	DESIGNED - R. TOMSONS 09-02-10	REVISED - R. TOMSONS 02-27-13
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
PLOT SCALE = 50.000' / 1"			
PLOT DATE = 2/27/2013			

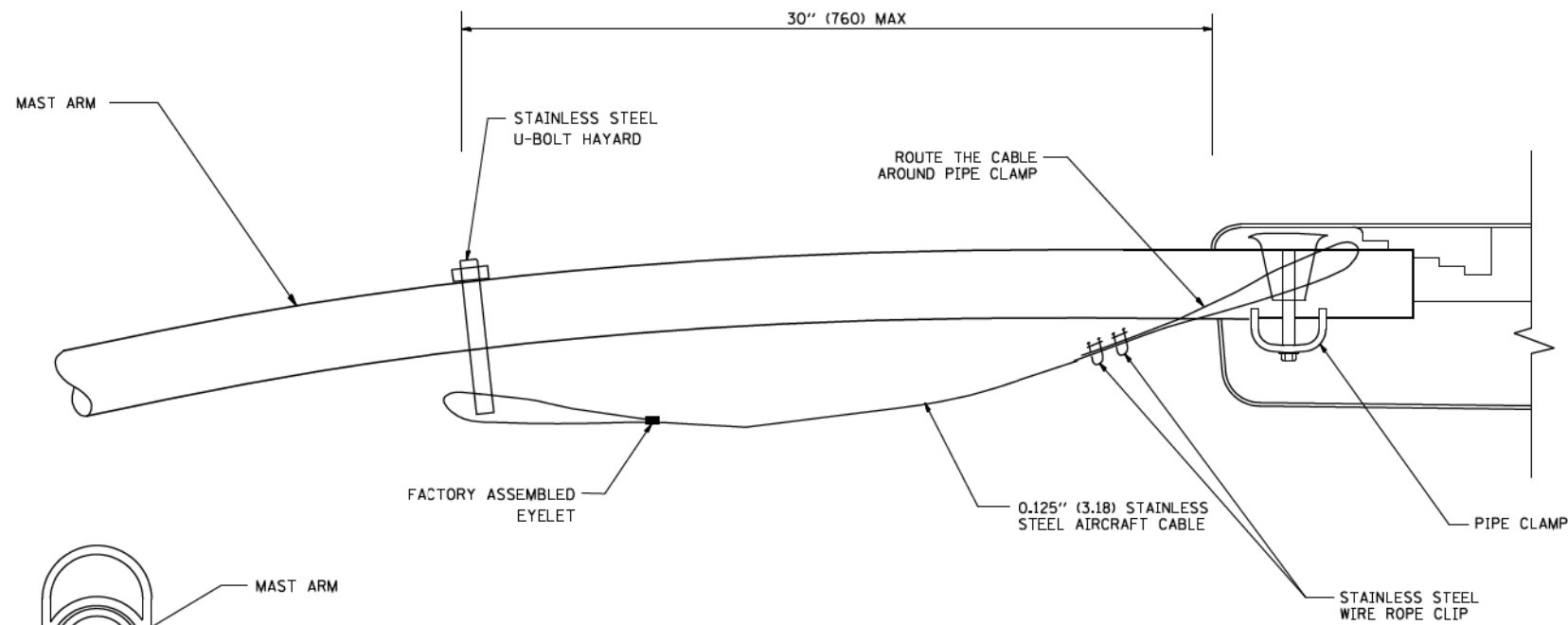
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

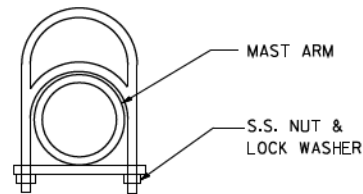
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-506		431	222
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO.		
FED. AID PROJECT				



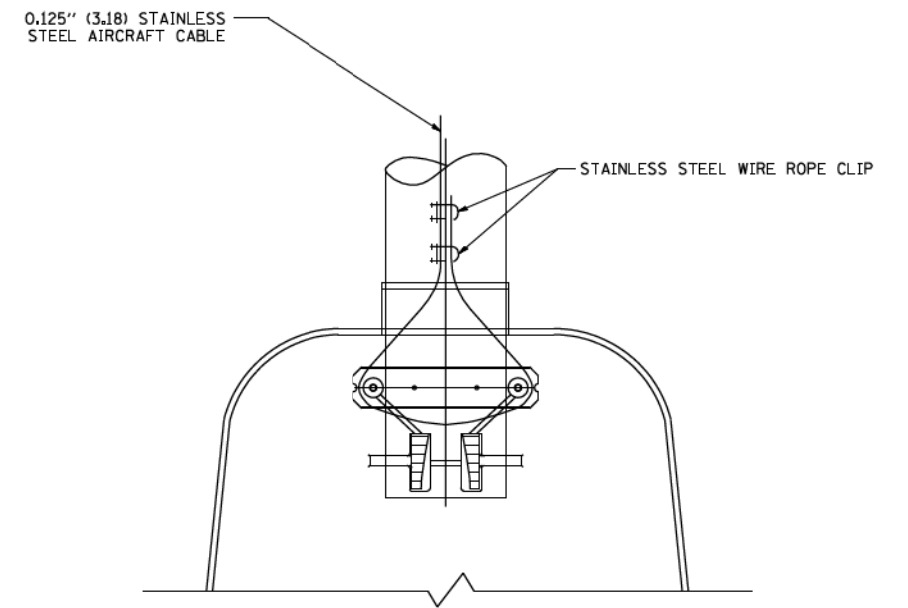
SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



STAINLESS STEEL
U-BOLT HAYARD



BOTTOM VIEW
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME =
W:\dststd\22x34\be701.dgn

USER NAME = gagljanobt

DESIGNED -

REVISED - 08-08-03

DRAWN -

REVISED -

PLOT SCALE = 50.000' / IN.

CHECKED -

REVISED -

PLOT DATE = 1/4/2008

DATE -

REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LUMINAIRE SAFETY CABLE ASSEMBLY

F.A.
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

431 223

BE-701

CONTRACT NO.

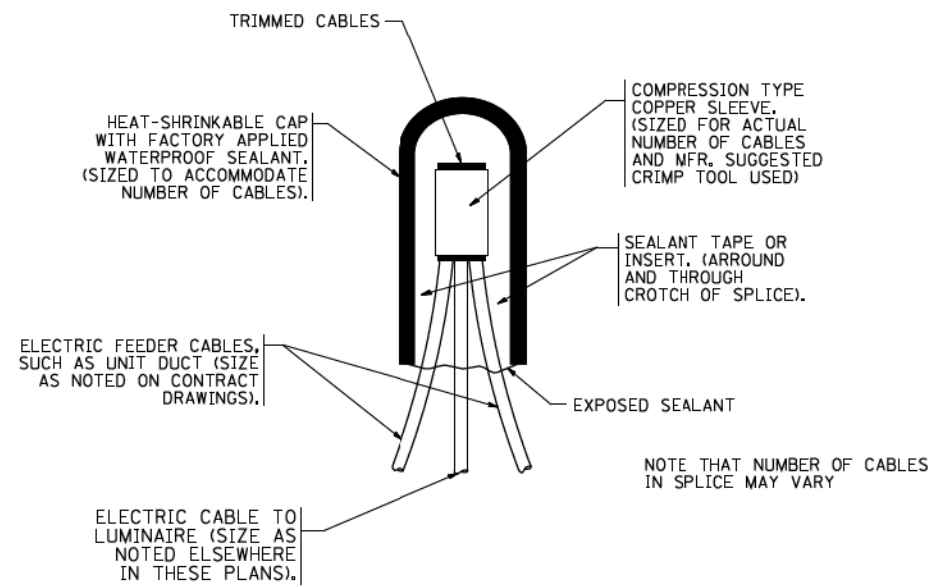
SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

STA.

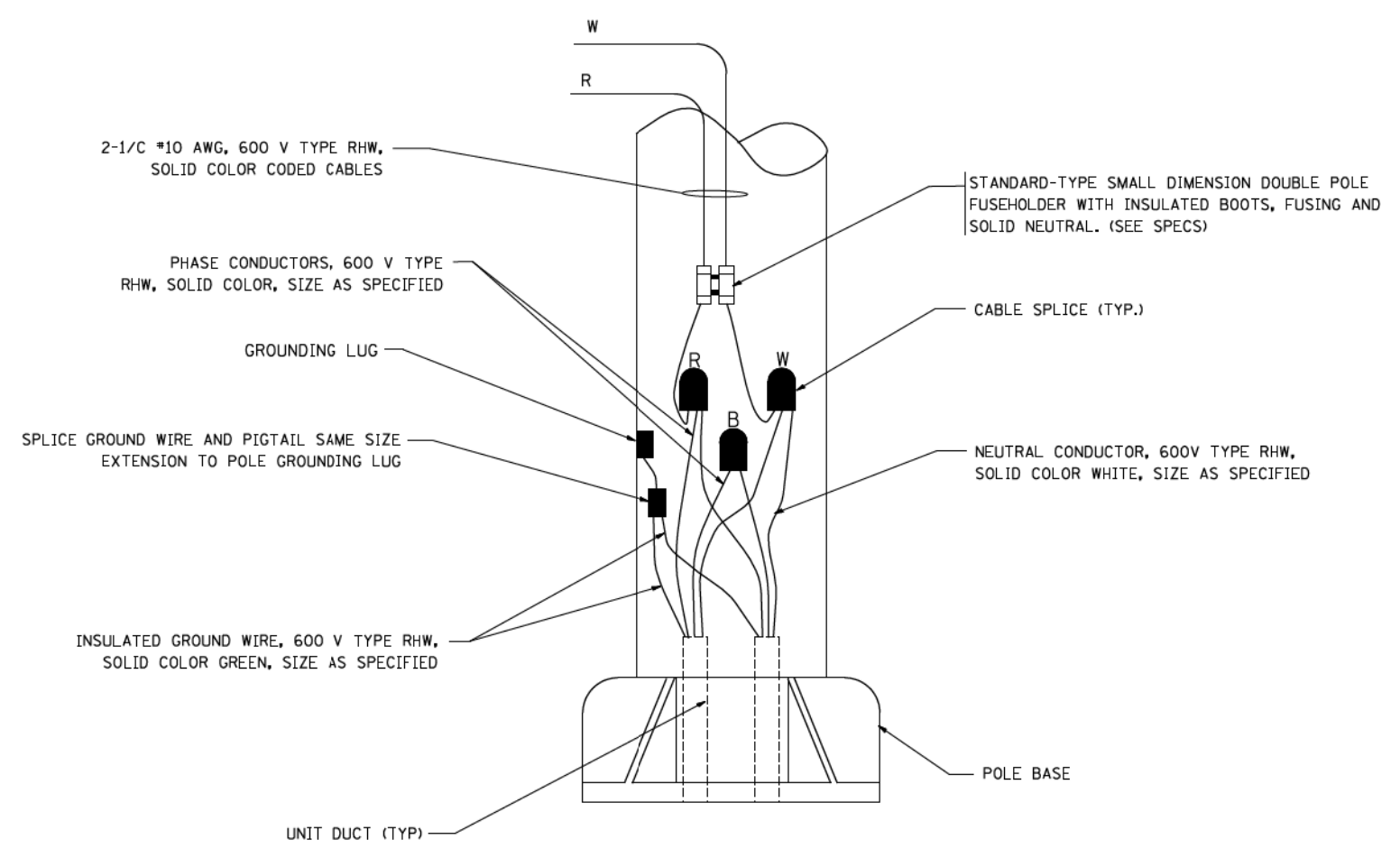
TO STA.

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT



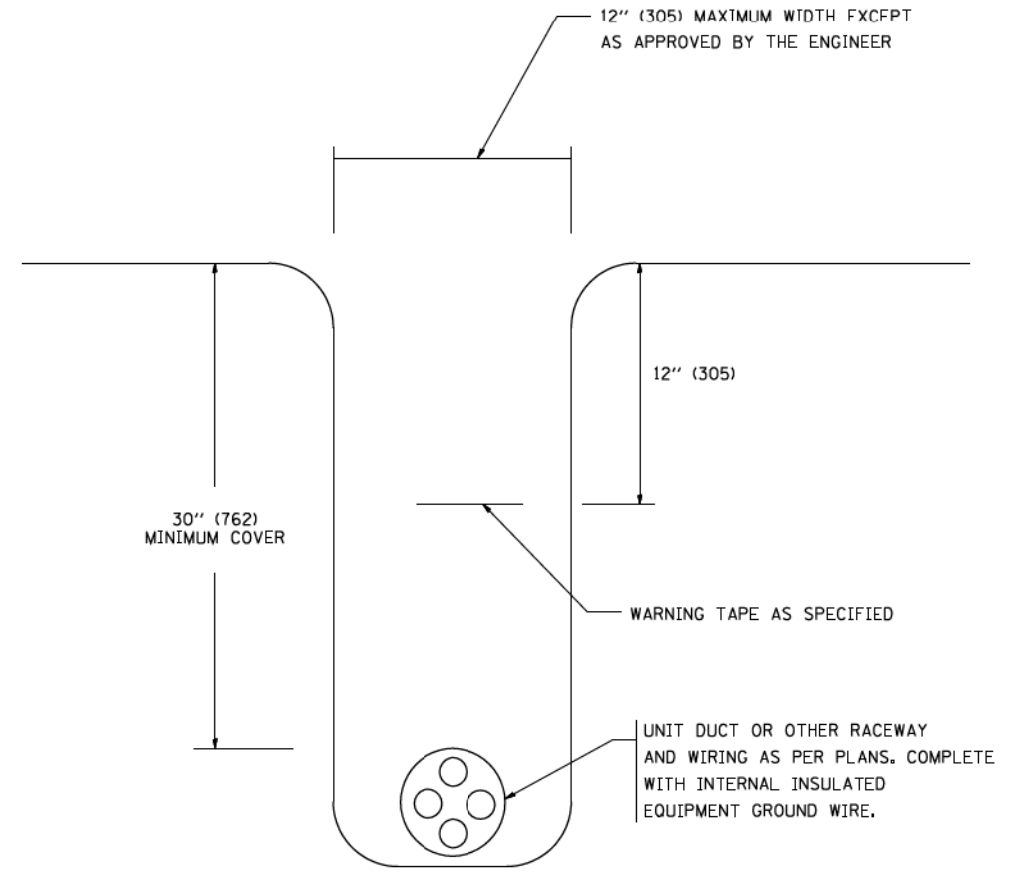
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

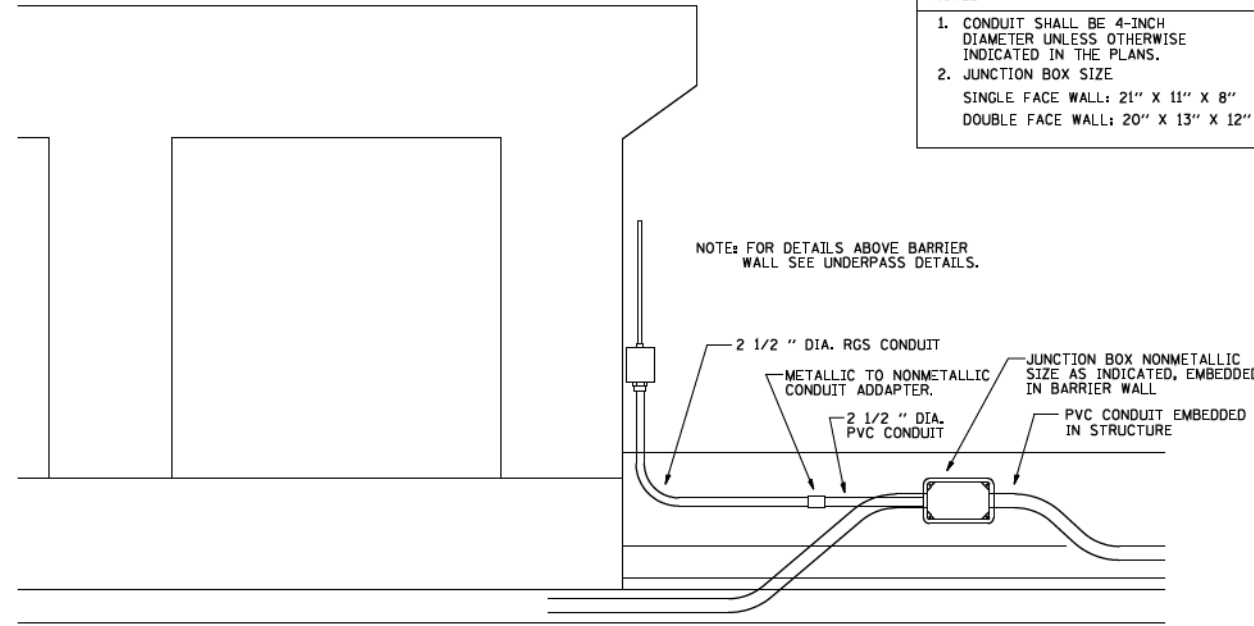
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

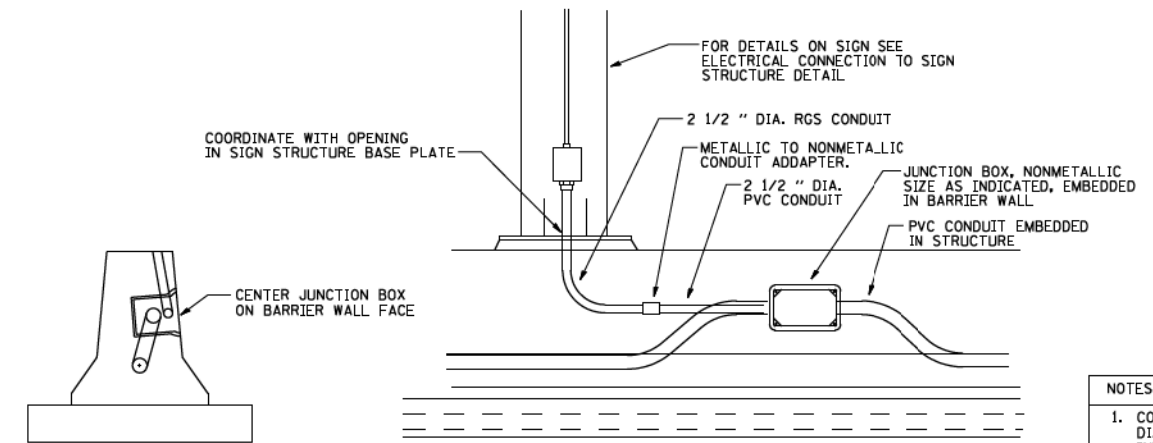
N.T.S.

FILE NAME = W:\dststd\22x34\be702.dgn	USER NAME = gagljanobts	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	431	224		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -					BE-702		CONTRACT NO.		
		DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



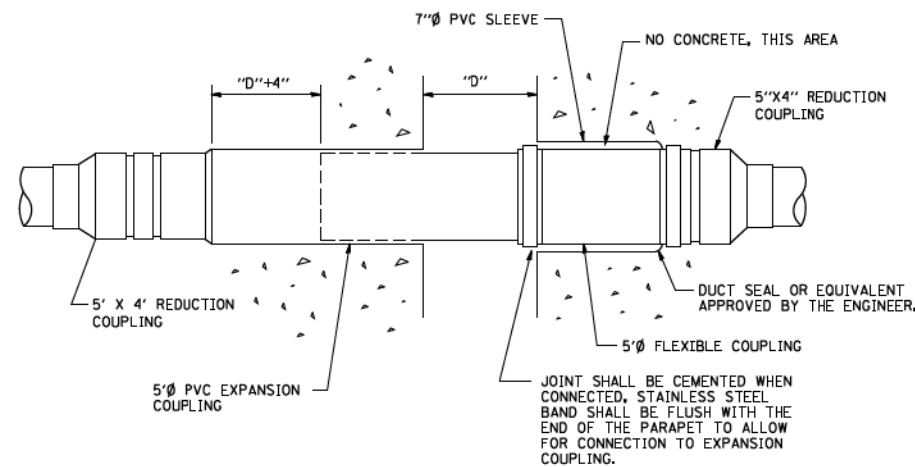
- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

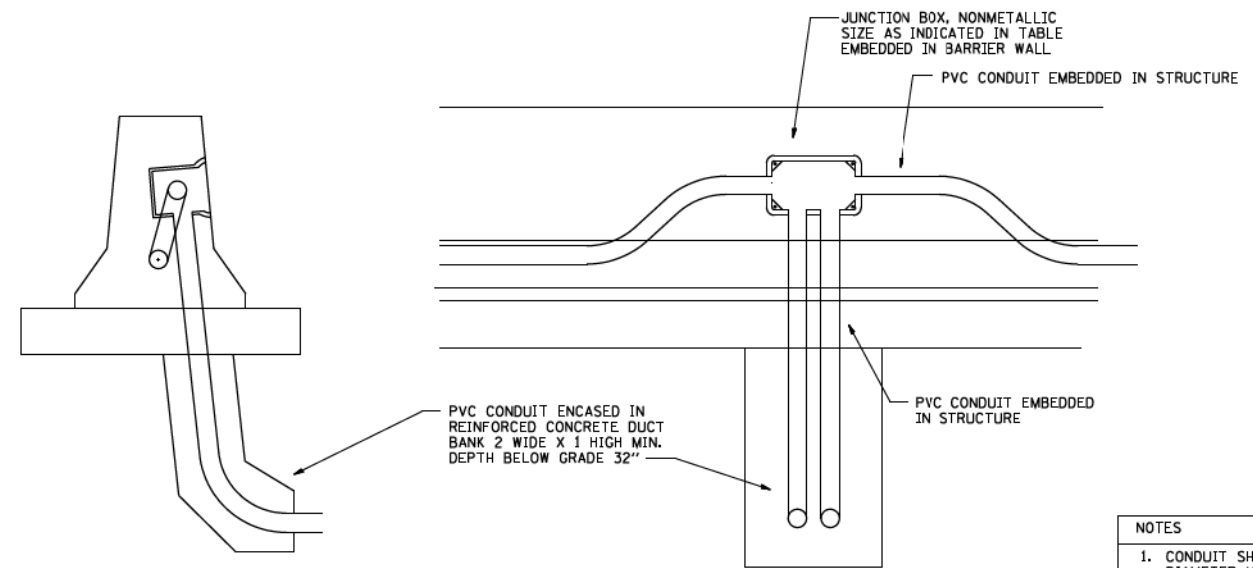


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - SGN
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING

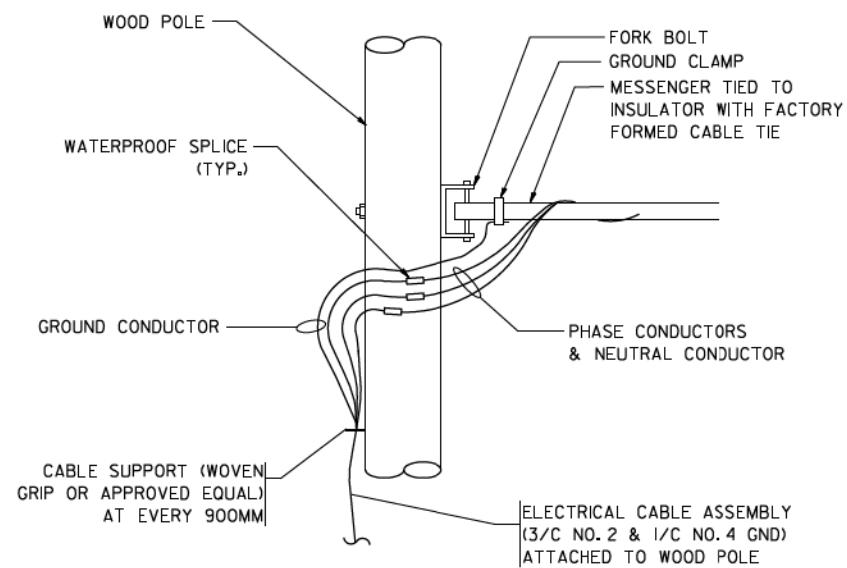


INSTALLATION OF CONDUIT
IN BRIDGE PARAPET EXPANSION JOINT
(N.T.S.)

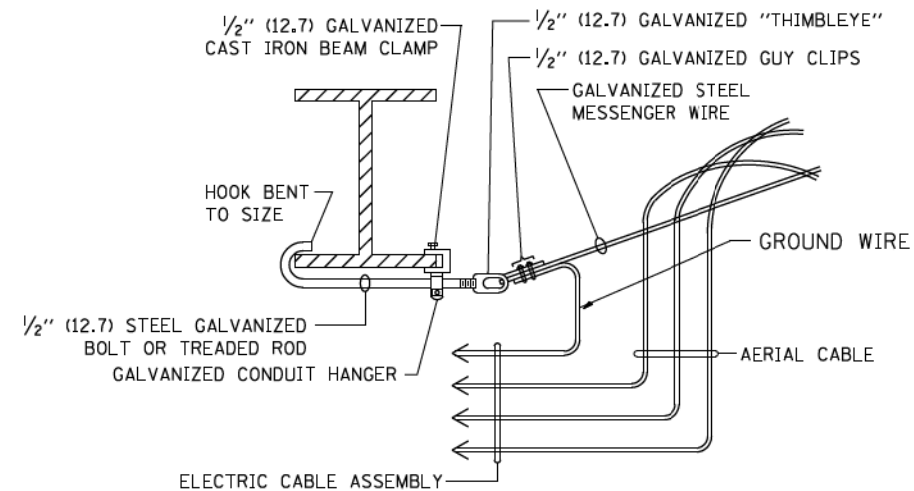


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL



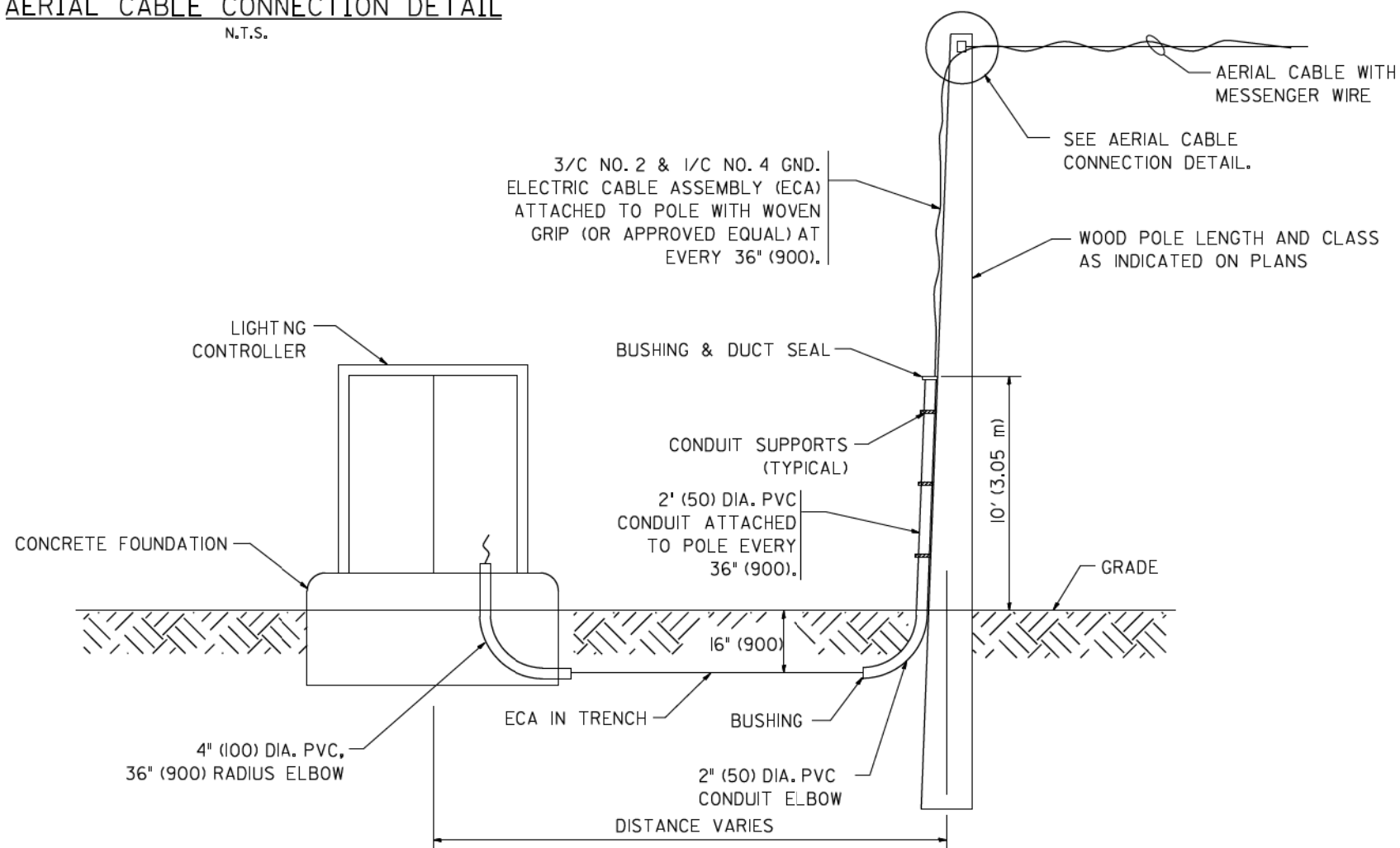
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

FILE NAME = W:\dststd\22x34\be001.dgn

USER NAME = gagljanobt
PLOT SCALE = 50.000' / IN.
PLOT DATE = 1/4/2008

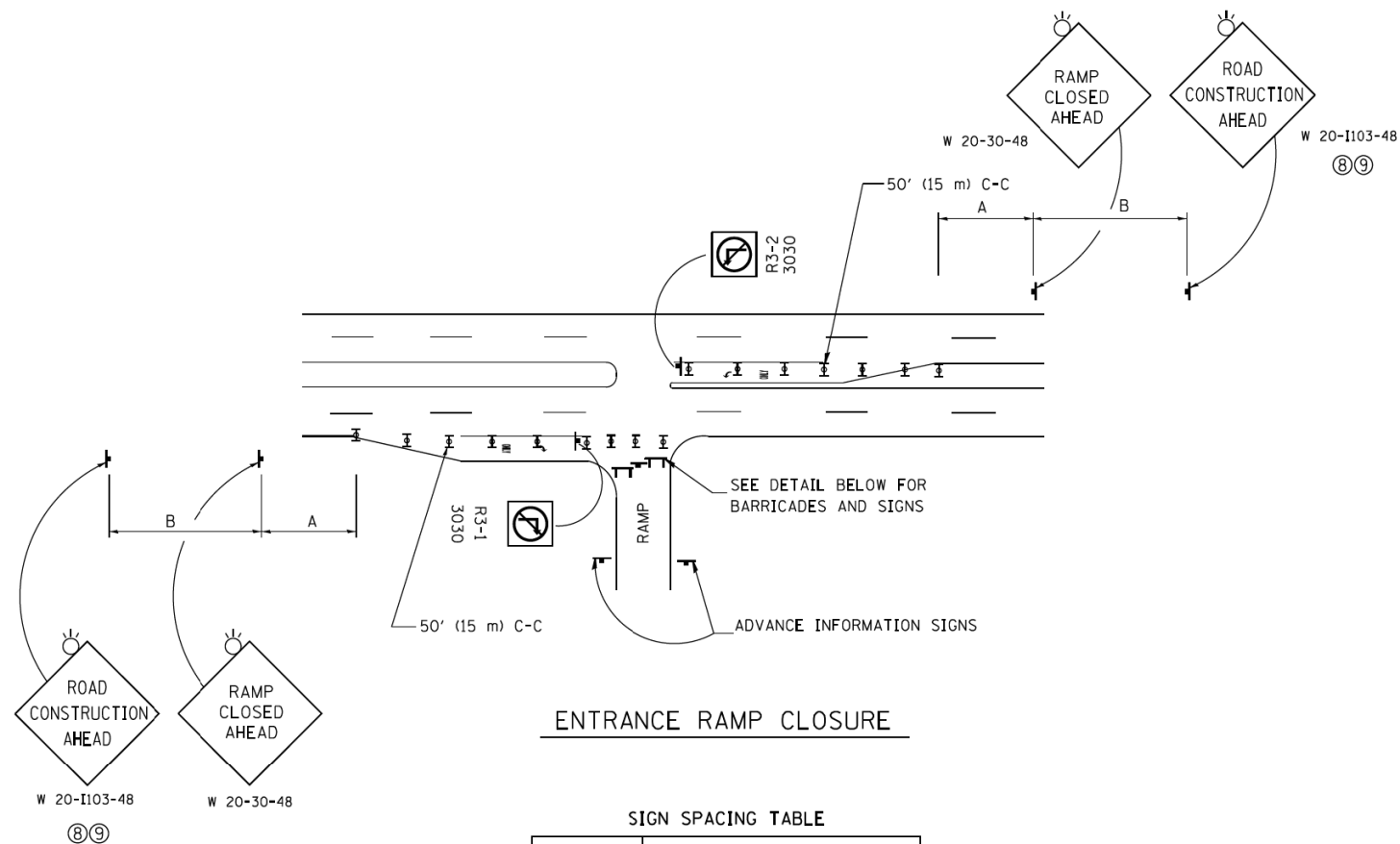
DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	226
BE-001		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

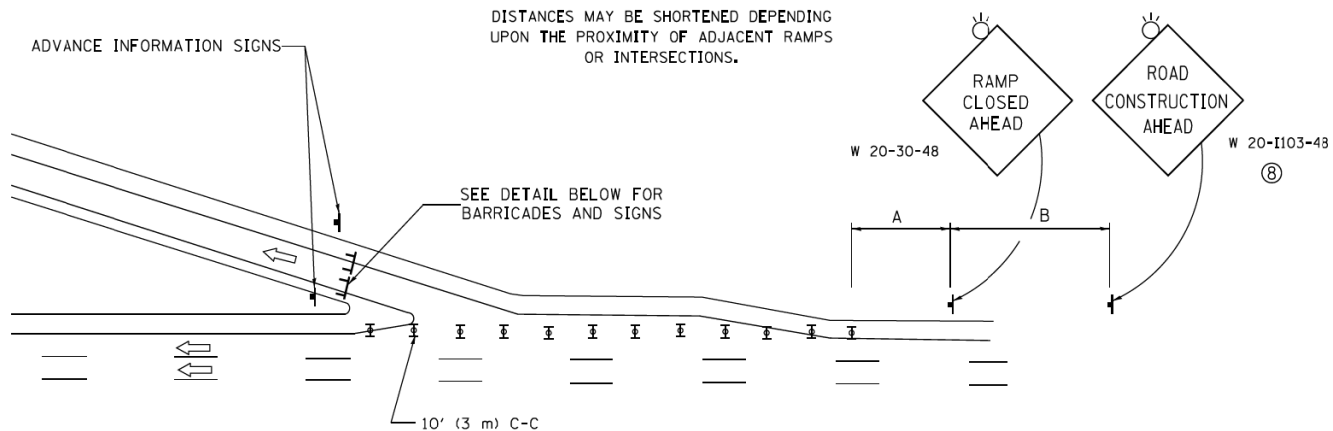


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

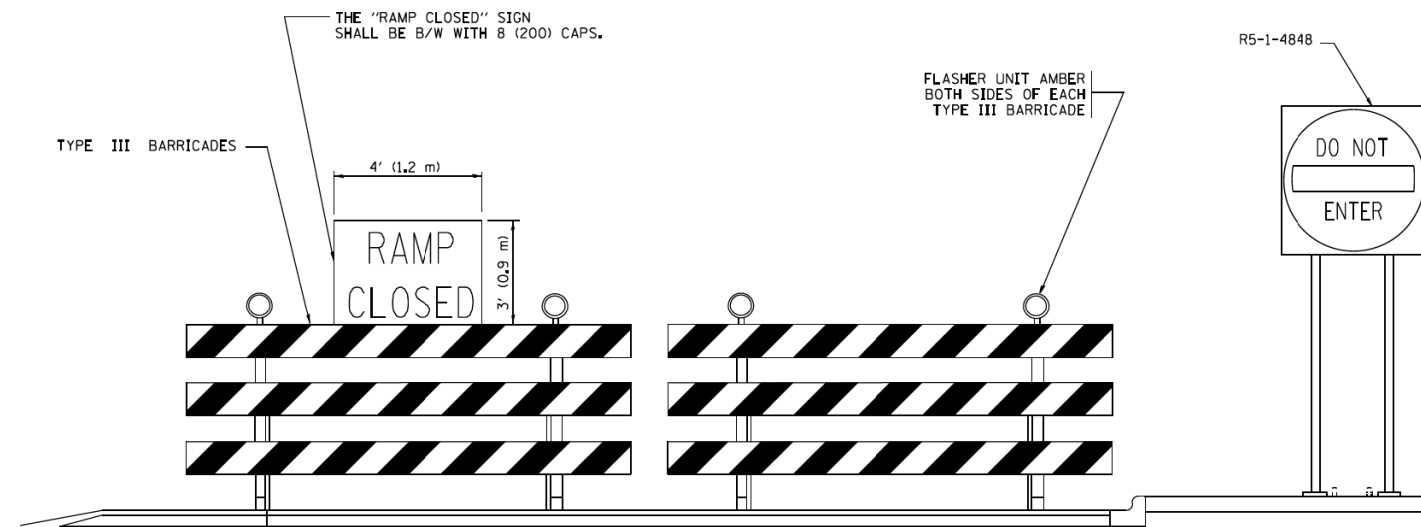
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

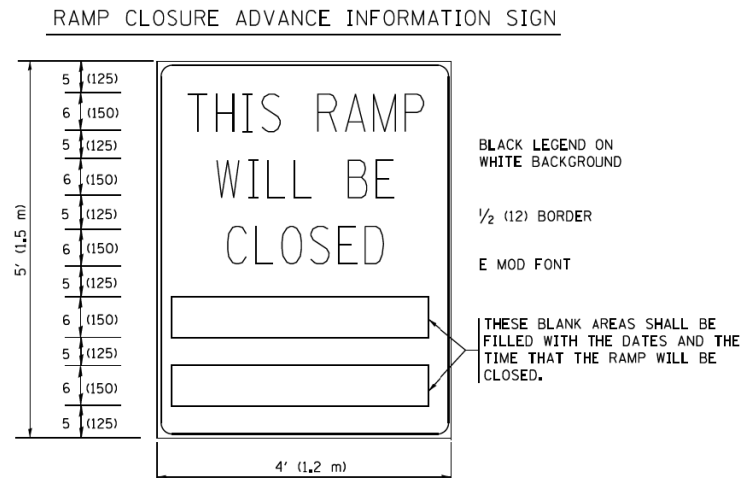
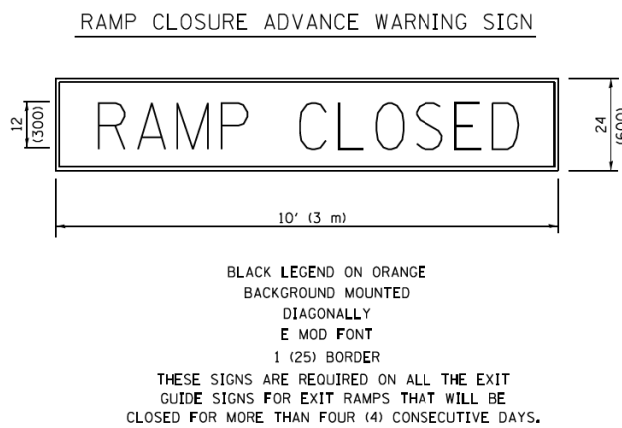


EXIT RAMP CLOSURE

- SYMBOLS**
- ☒ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ☒ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

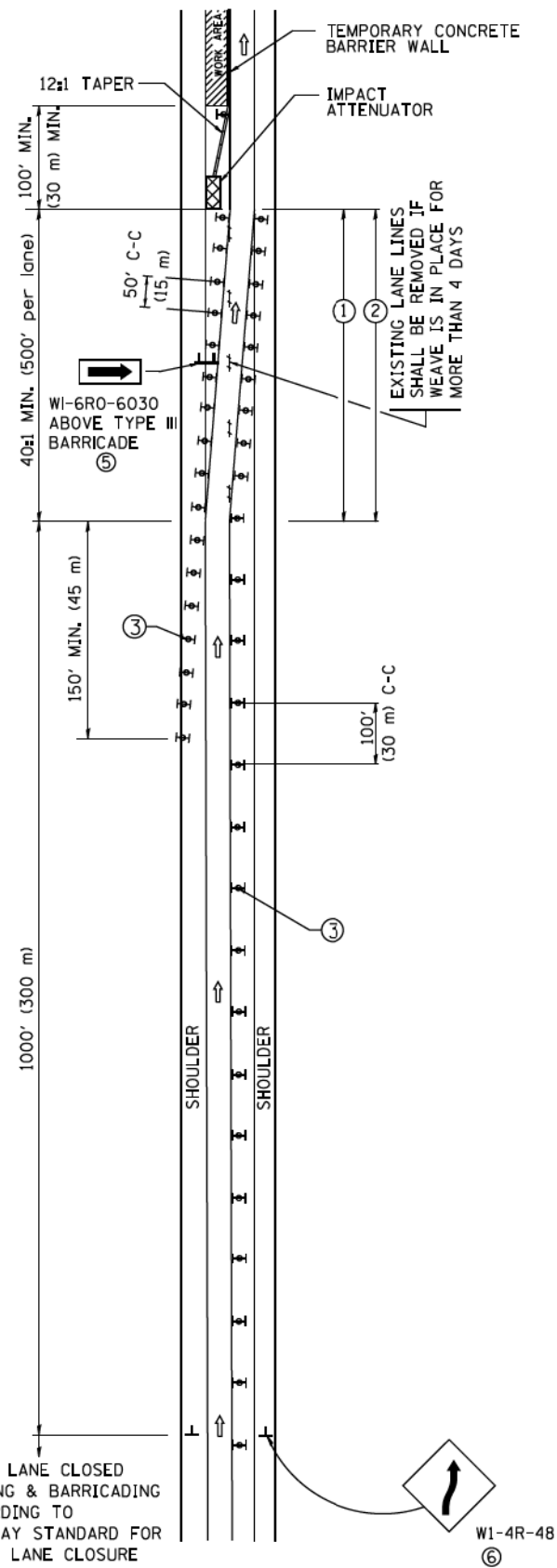
FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06
as\pwwork\pwwdot\footemj\0108315\1c088.dgn		DRAWN -	REVISED - SPB 01-07
	PLOT SCALE = 50.000' / 1"	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ENTRANCE AND EXIT RAMP CLOSURE DETAILS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-08		431	226A
FED. ROAD DIST. NO. 1 ILLINOIS		CONTRACT NO.		
FED. AID PROJECT				

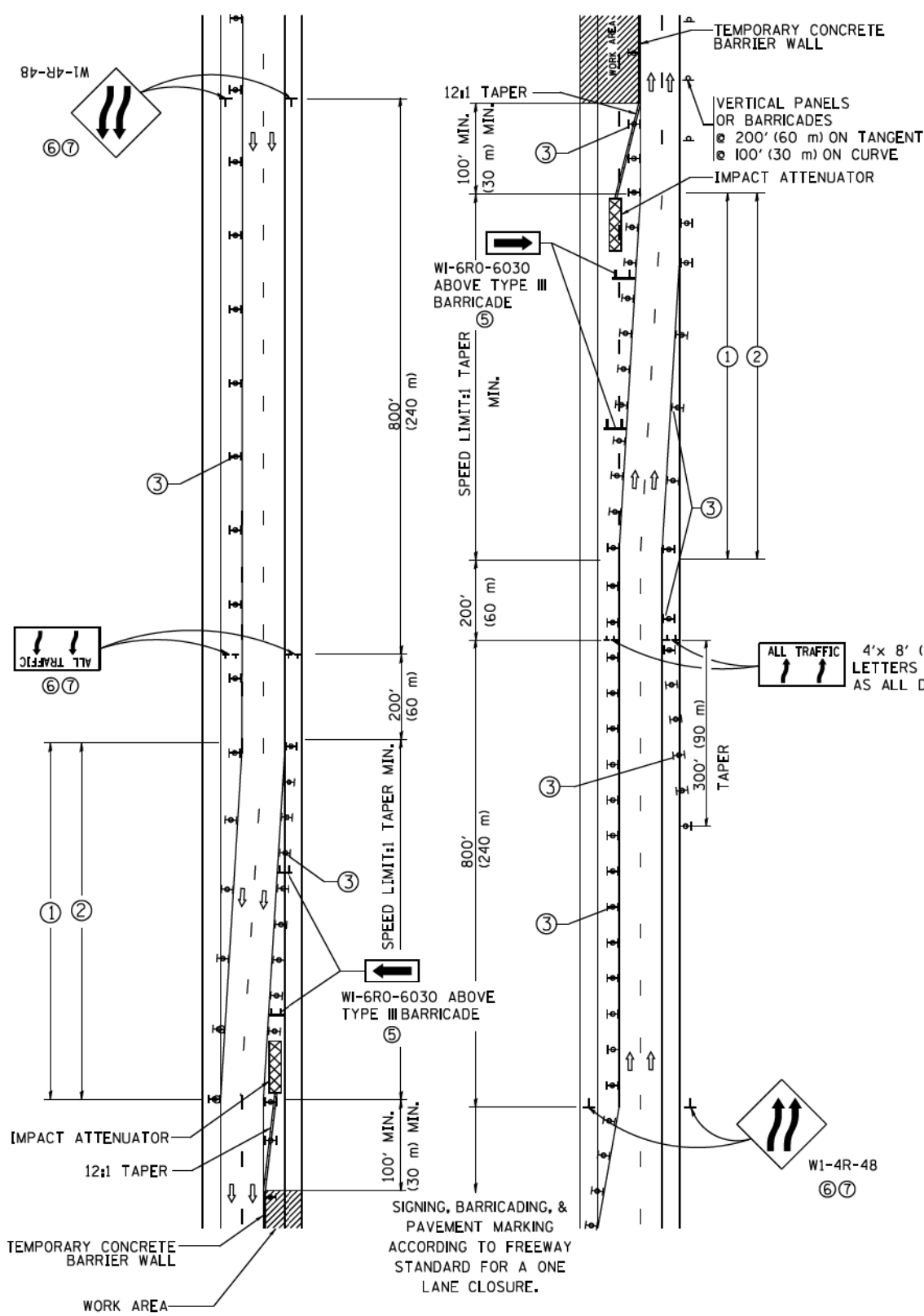
SINGLE LANE WEAVE



RIGHT LANE CLOSED
SIGNING & BARRICADING
ACCORDING TO
FREEWAY STANDARD FOR
A ONE LANE CLOSURE

W1-4R-48
⑥

MULTI-LANE WEAVE



ALL TRAFFIC 4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN L'GHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ┌ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊞ TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- ⊞ IMPACT ATTENUATOR
- ◊ W24-1-48 ⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN

FILE NAME =
c:\ps_work\psdot\footem\vd0108315\td09.dgn

USER NAME = footemj
PLOT SCALE = 50.000' / 1" / in.
PLOT DATE = 7/1/2013

DESIGNED - DWS
DRAWN -
CHECKED -
DATE - 02-87

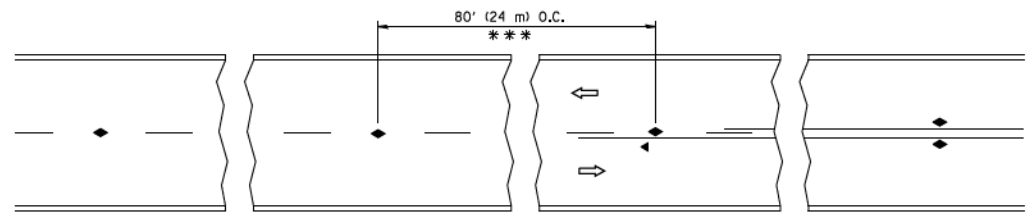
REVISED - JAF 02-06
REVISED - SPB 01-07
REVISED - SPB 12-09
REVISED - MD 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE

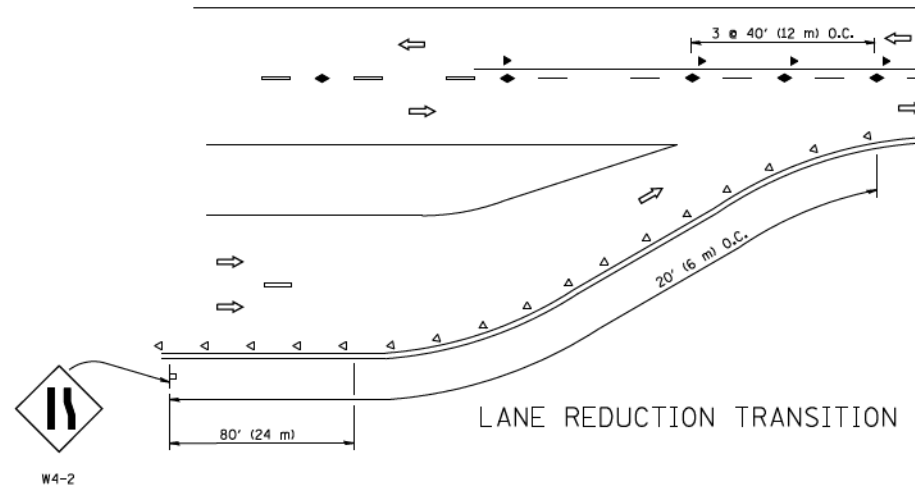
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	227
TC-09			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

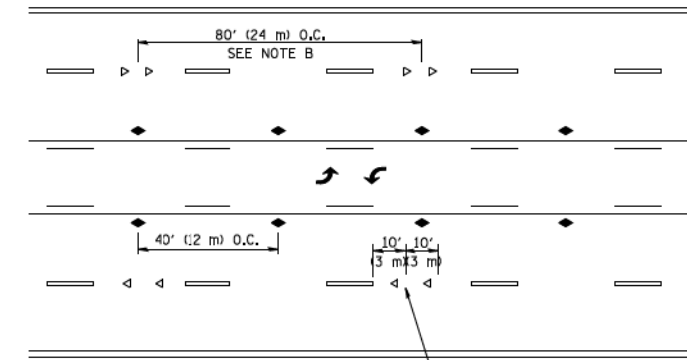


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

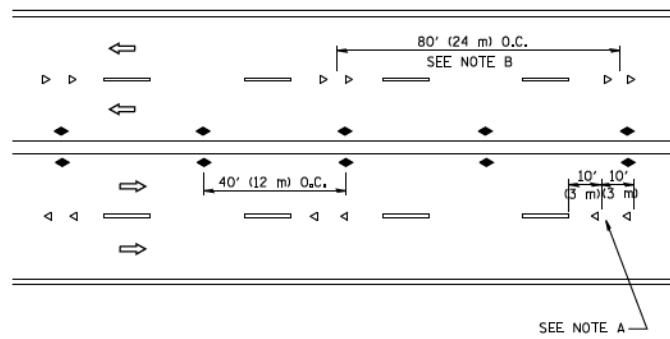
TWO-LANE/TWO-WAY



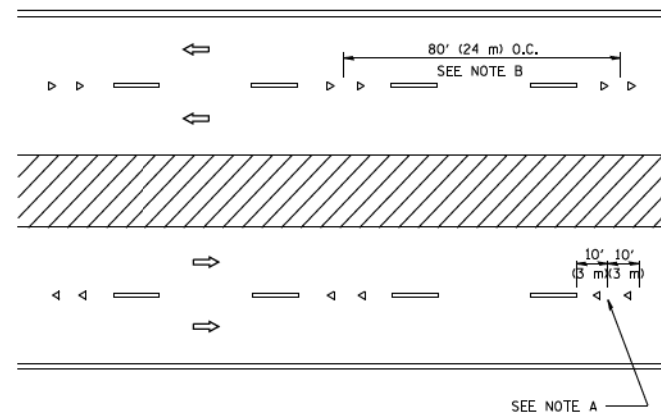
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

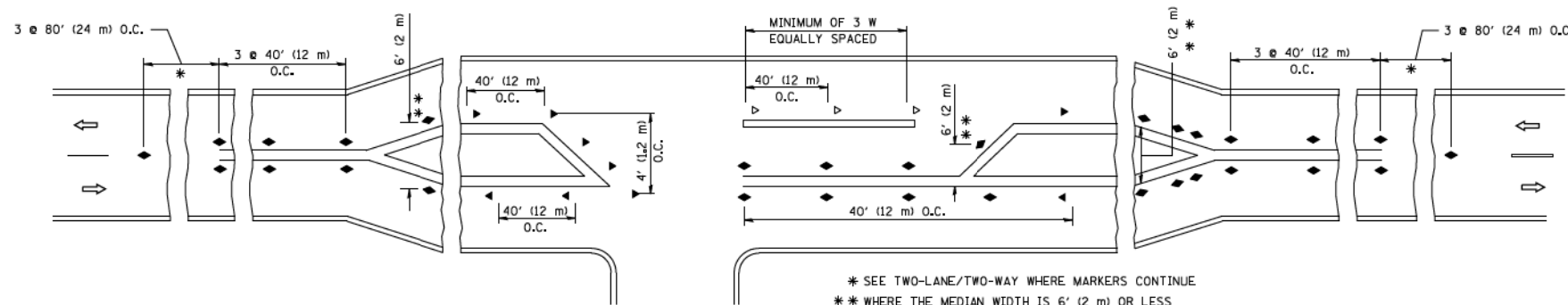
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

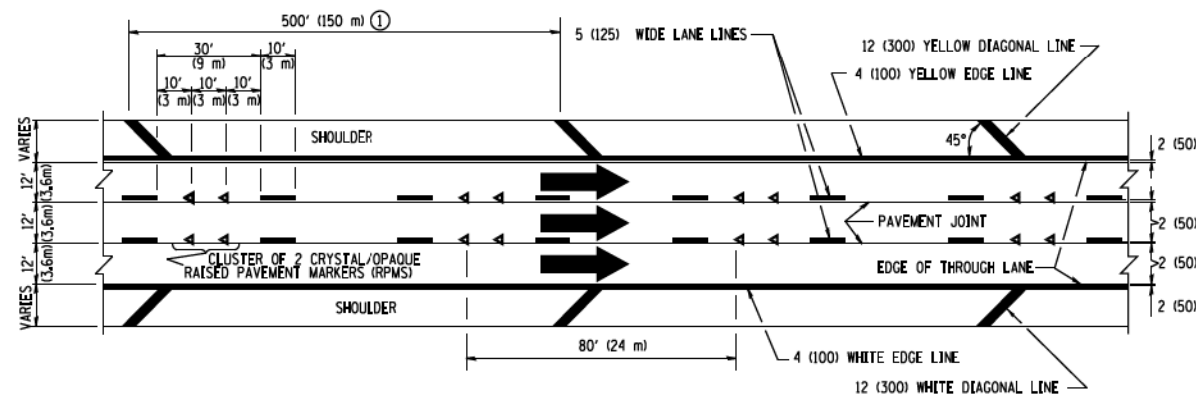
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\ps_work\psdot\1eysa\d0108315\to11.dgn	USER NAME = 1eysa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

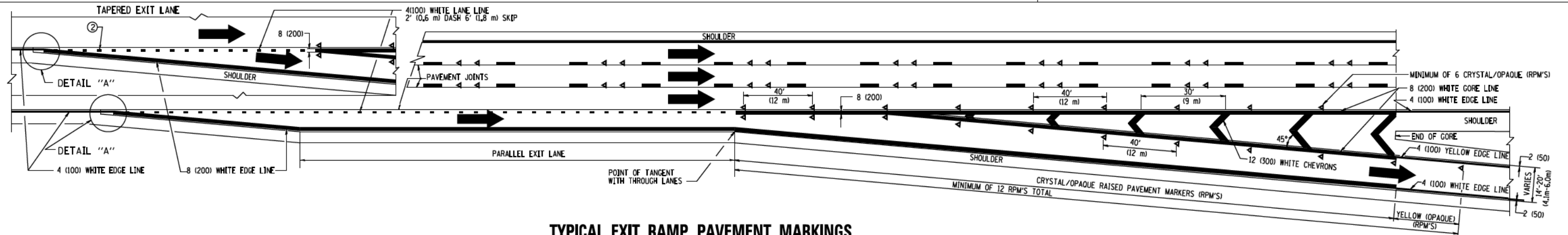
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	228
TC-11			CONTRACT NO.	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



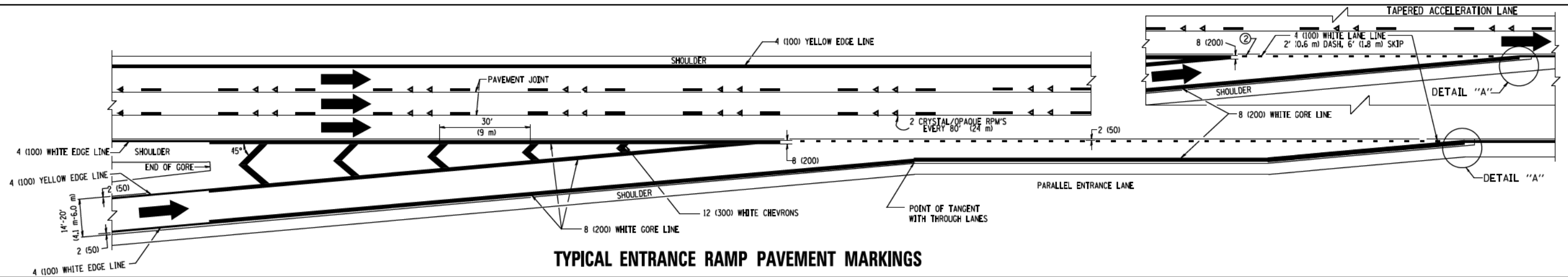
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

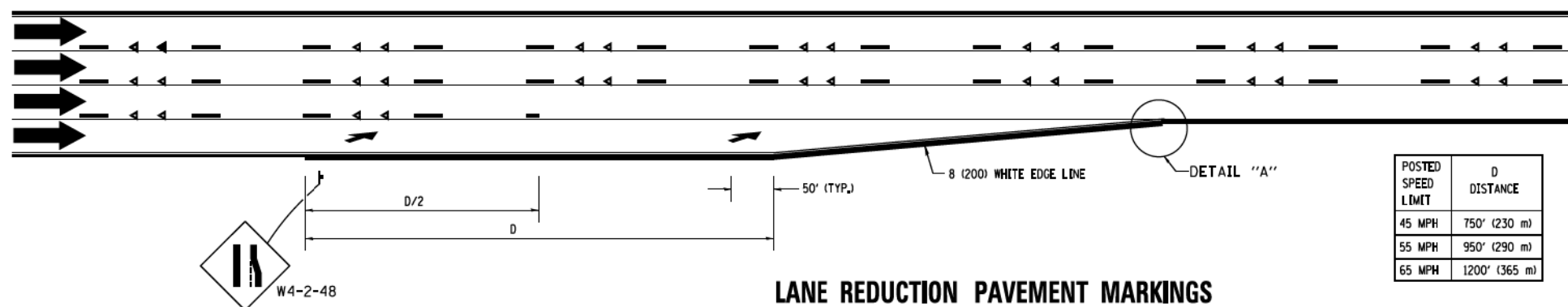
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



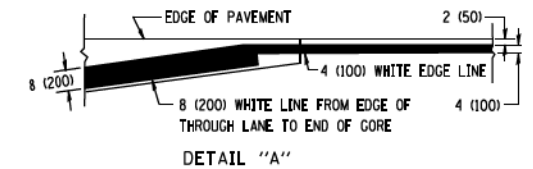
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



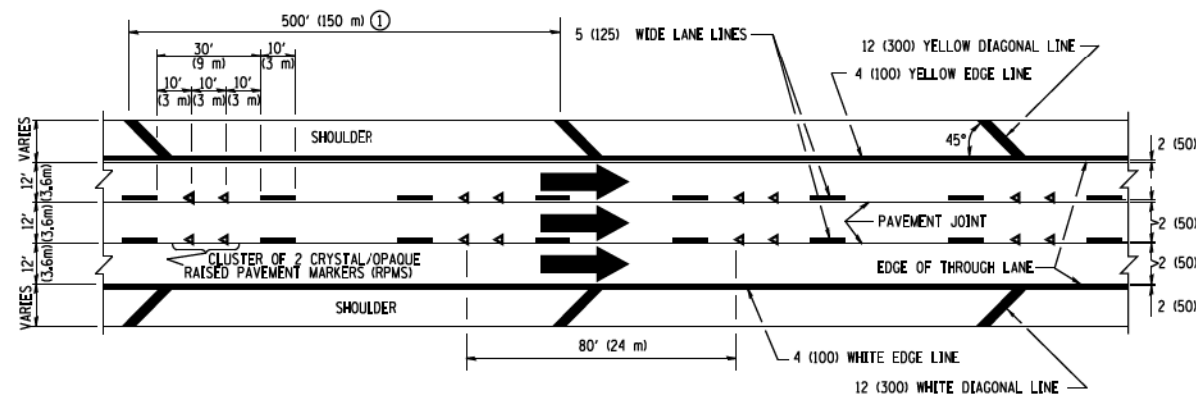
LANE REDUCTION PAVEMENT MARKINGS



NOTES:

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

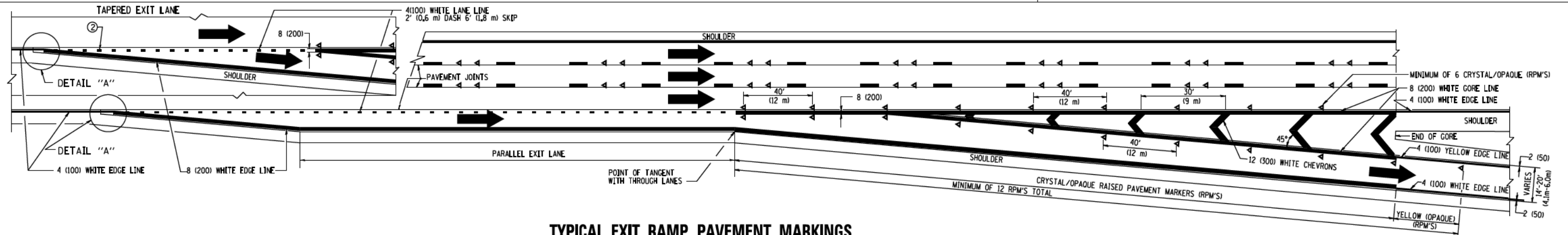
FILE NAME = c:\ps_work\ps\dot\footem\vd0108315\col2.dgn	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.000' / in.		DRAWN -	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	TC-12	CONTRACT NO.	431	229
PLOT DATE = 7/8/2013		CHECKED -	REVISED - S.P.B. 01-10									
		DATE - 01-90	REVISED - M.D. 05-13						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



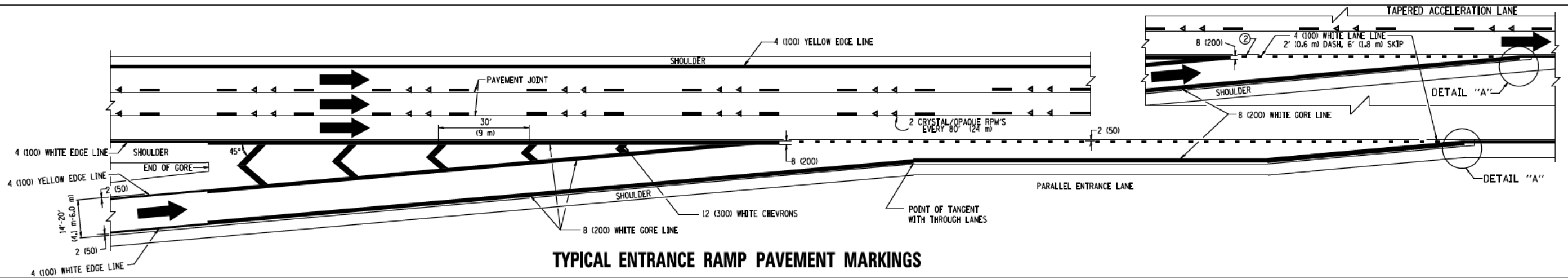
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

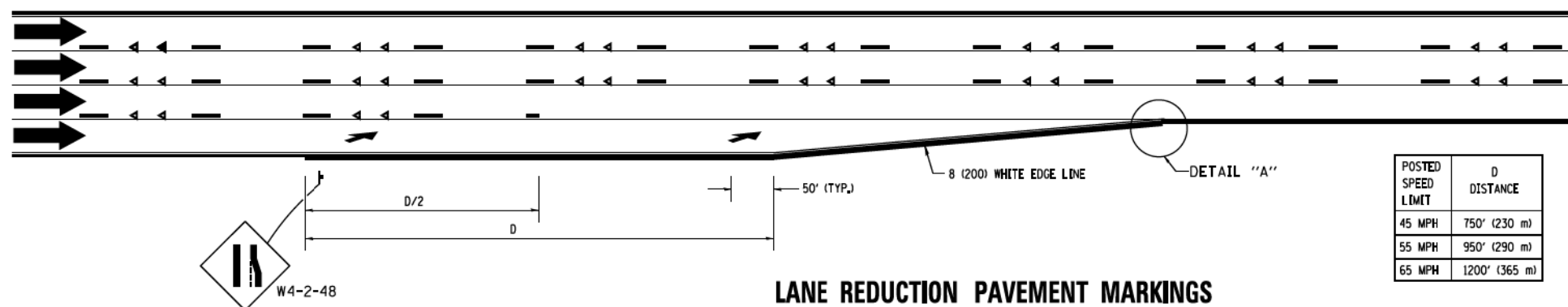
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

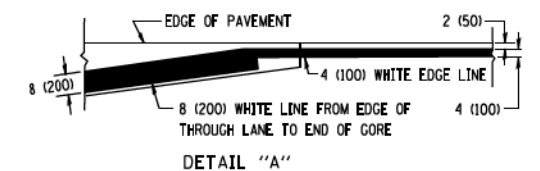


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



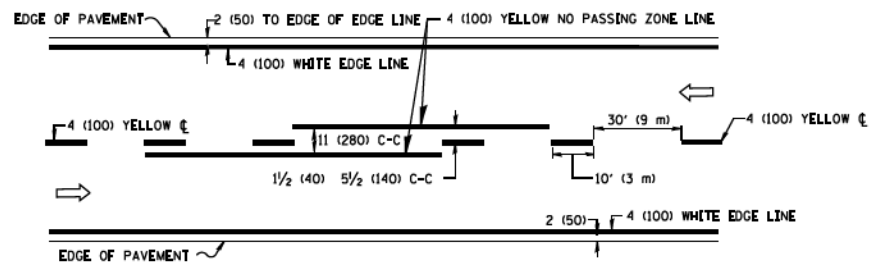
LANE REDUCTION PAVEMENT MARKINGS

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

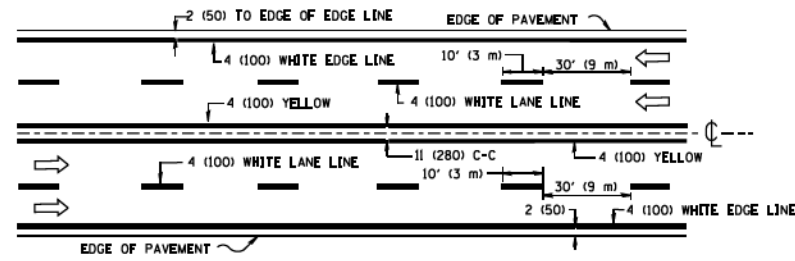


NOTES:

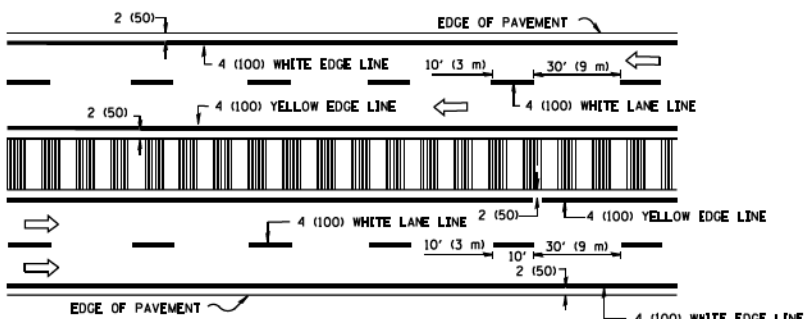
- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.



2-LANE ROADWAY

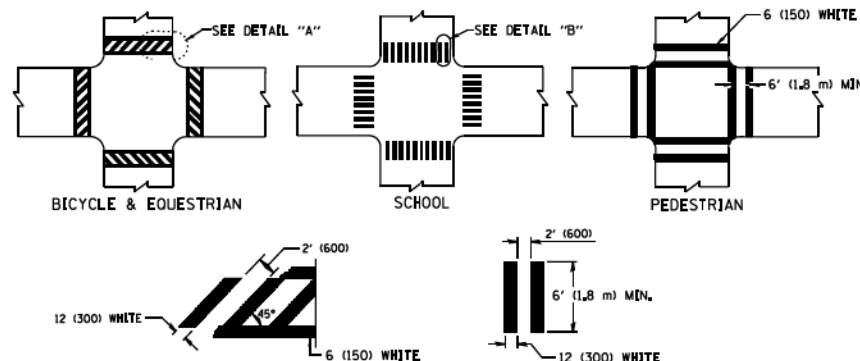


MULTI-LANE UNDIVIDED



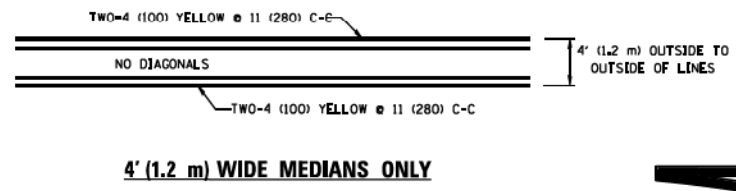
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

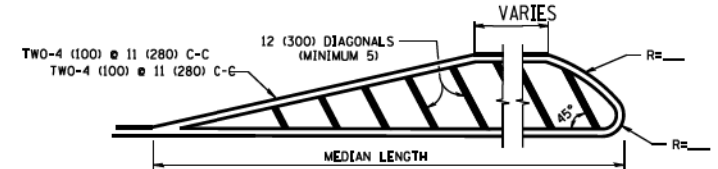


DETAIL "A" TYPICAL CROSSWALK MARKING

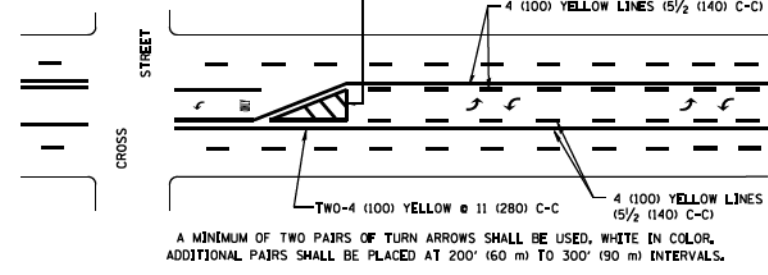
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



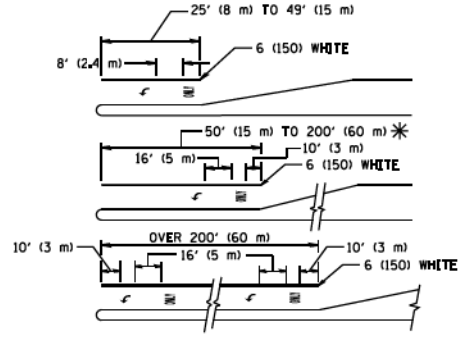
4' (1.2 m) WIDE MEDIANS ONLY



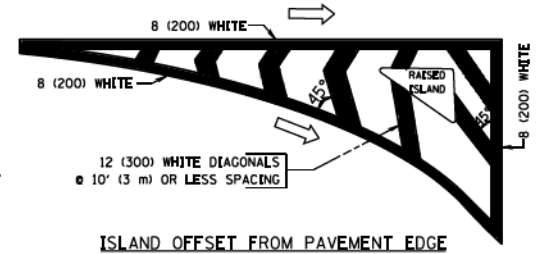
MEDIANS OVER 4' (1.2 m) WIDE



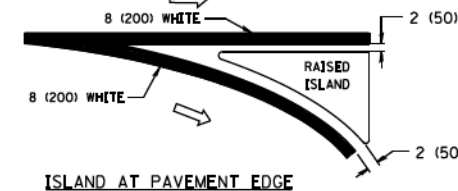
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



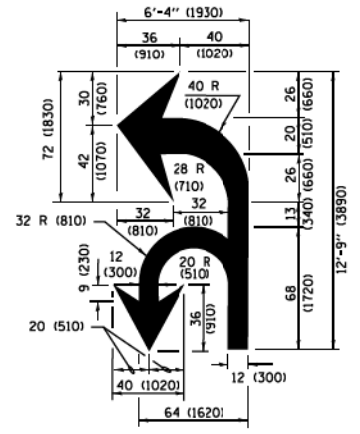
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



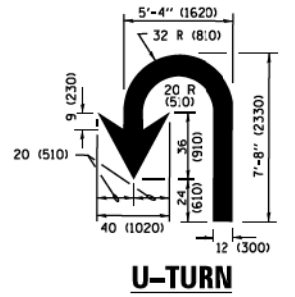
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

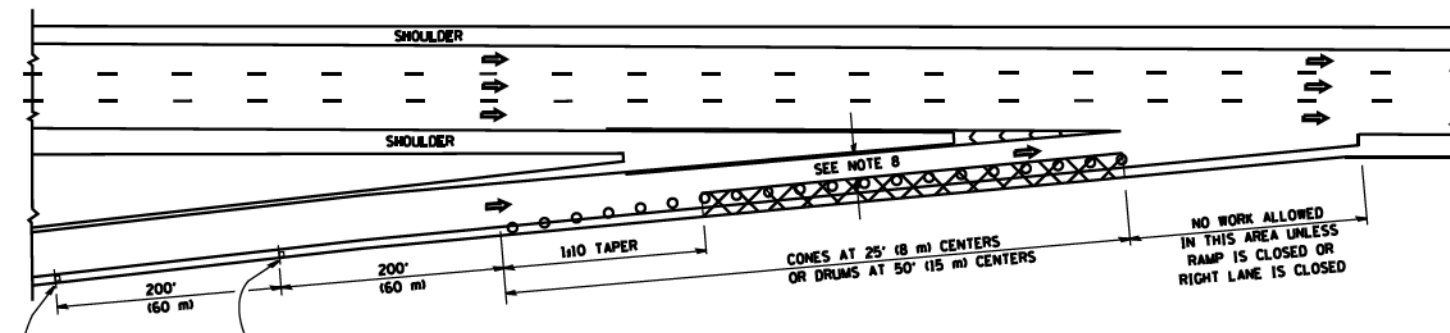
D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE, FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN), A. DIAGONALS (BICYCLE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW TWO WAY TRAFFIC WHITE ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16,3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30,4 SF

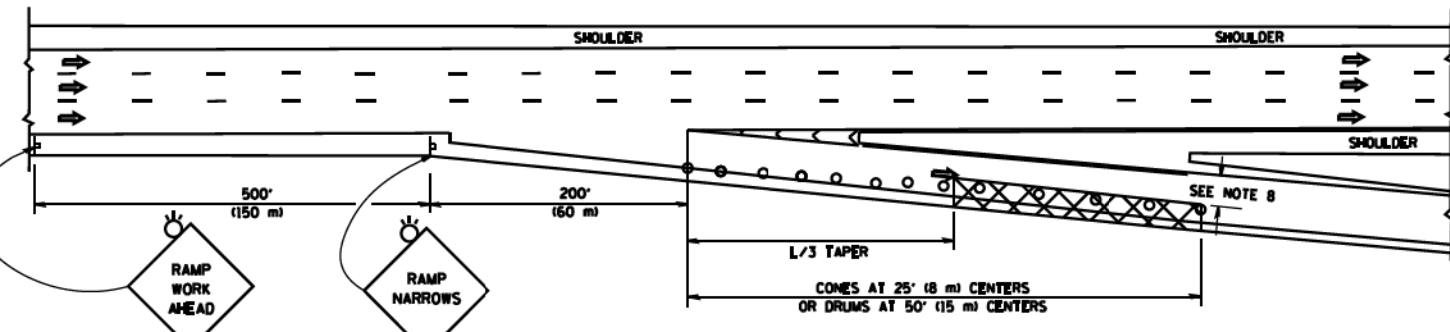
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

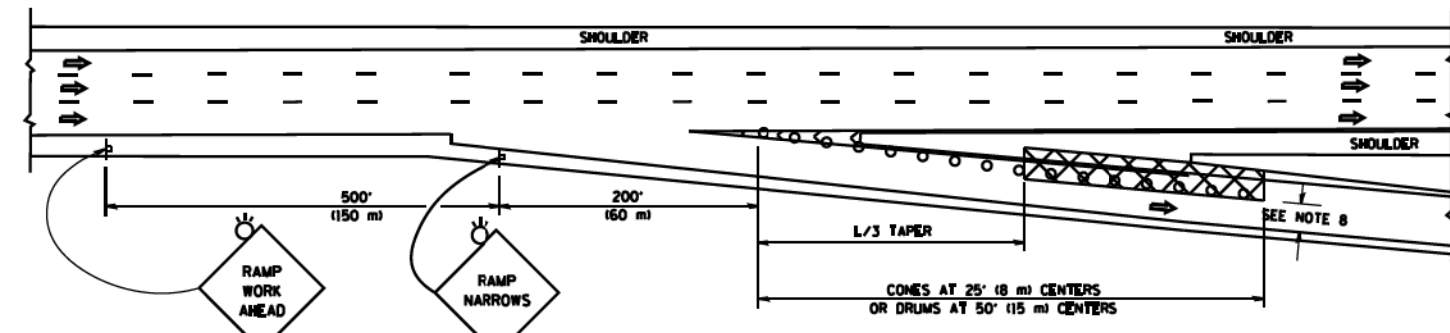
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

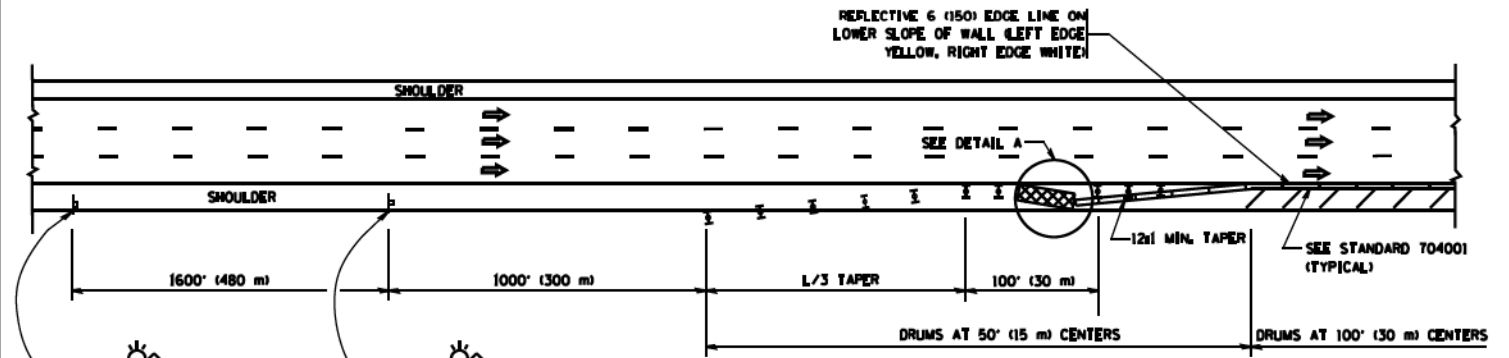
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

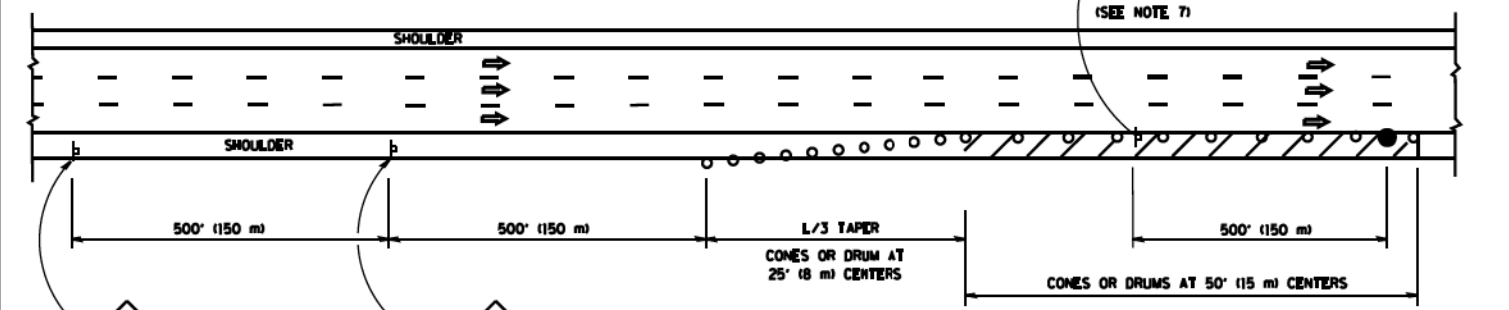
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC ENGLISH
	$L = 0.65(W/S)$ $L = (W/S)$

W = WIDTH OF OFFSET IN FEET (METERS)
S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

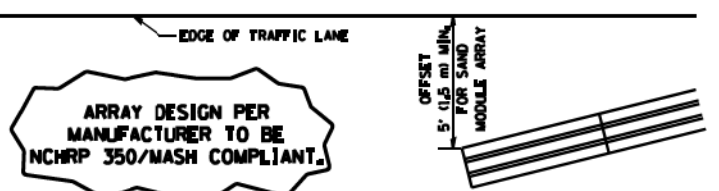
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE



**DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)**

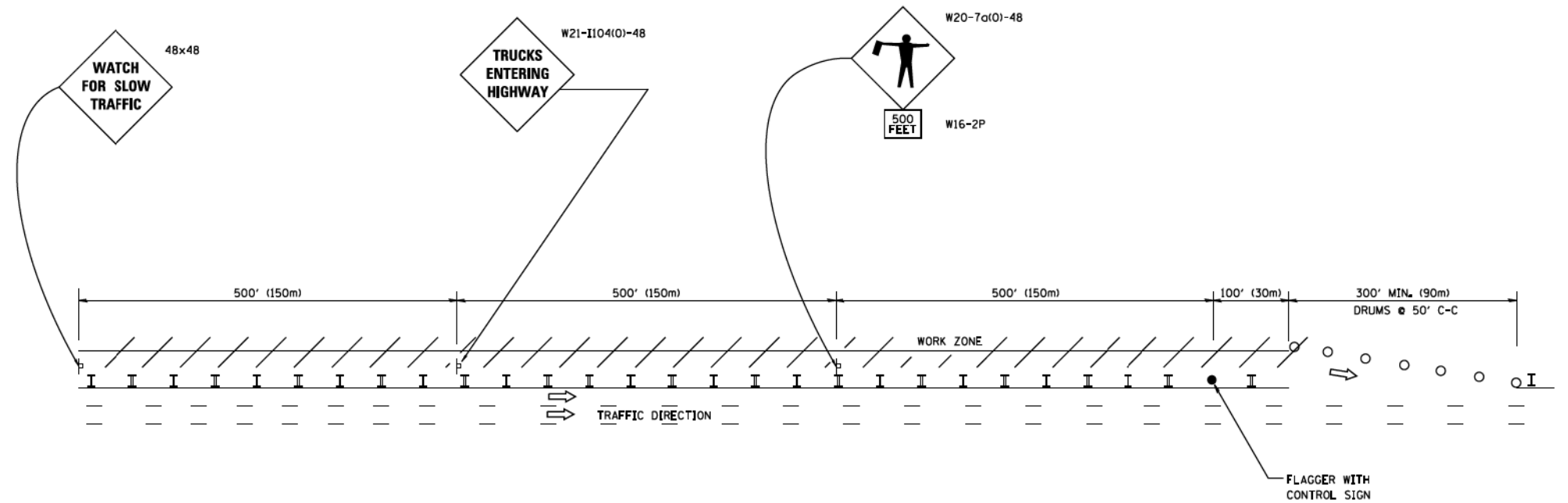
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP 350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

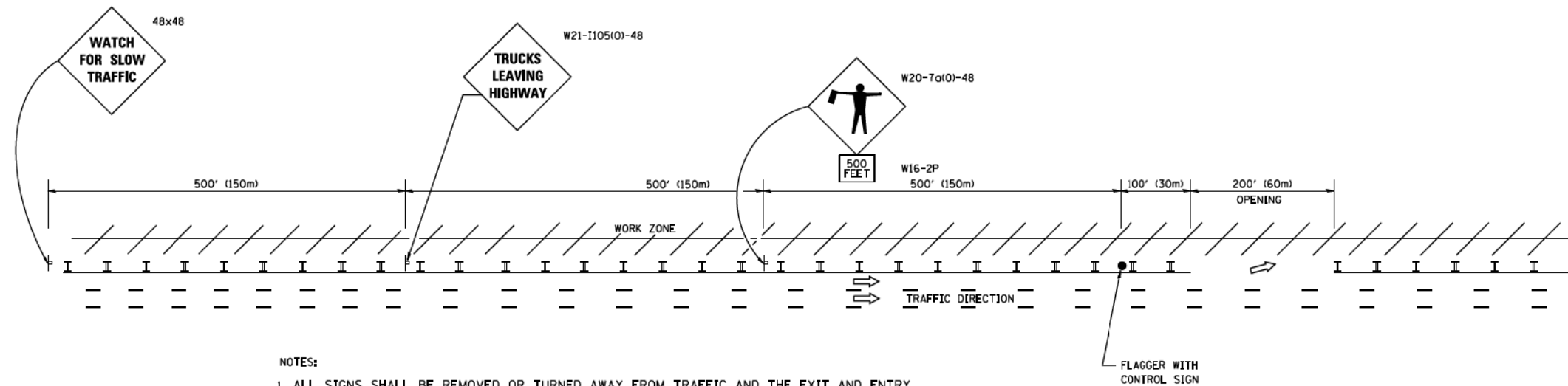
FILE NAME *	USER NAME = jeyso	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F&E RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwork\pwrdot\jeyso\dl180315\1017.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		SCALE: NONE						431	232
		CHECKED -	REVISED - S.P.B. 12-09		SHEET NO. 1 OF 1 SHEETS							
		DATE - 11-96	REVISED - M.D. 06-13		STA. TO STA.							
								TC-17		CONTRACT NO.		
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = c:\ps_work\psidot\footem\vd0100315\col18.dgn	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50.000' / 1" =		DRAWN -	REVISED - S.P.B. 01-07								431	233
PLOT DATE = 7/8/2013		CHECKED -	REVISED - S.P.B. 12-09		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS			STA. TO STA.	
		DATE -	REVISED - M.D. 06-13		TC-18			CONTRACT NO.				
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

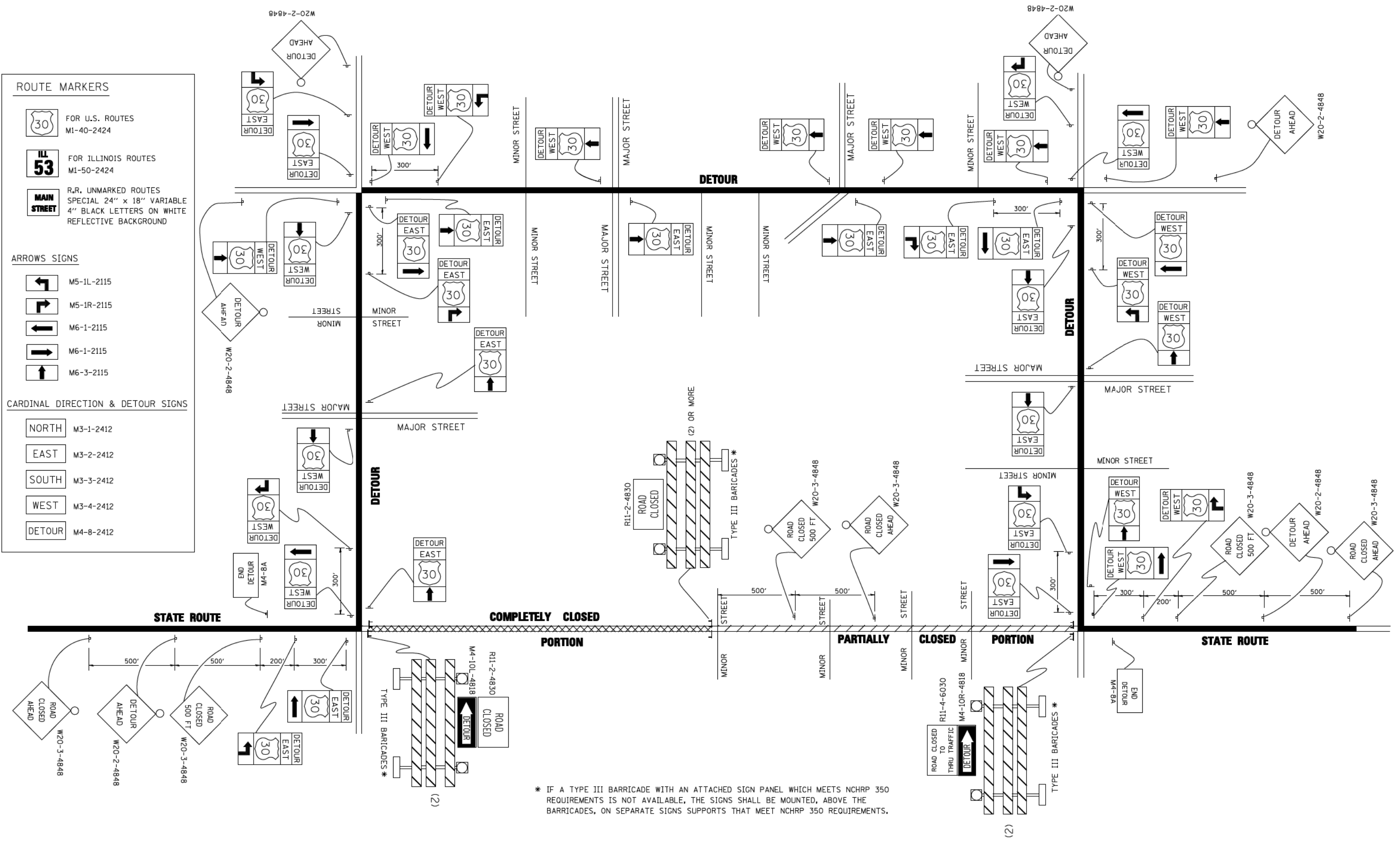
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

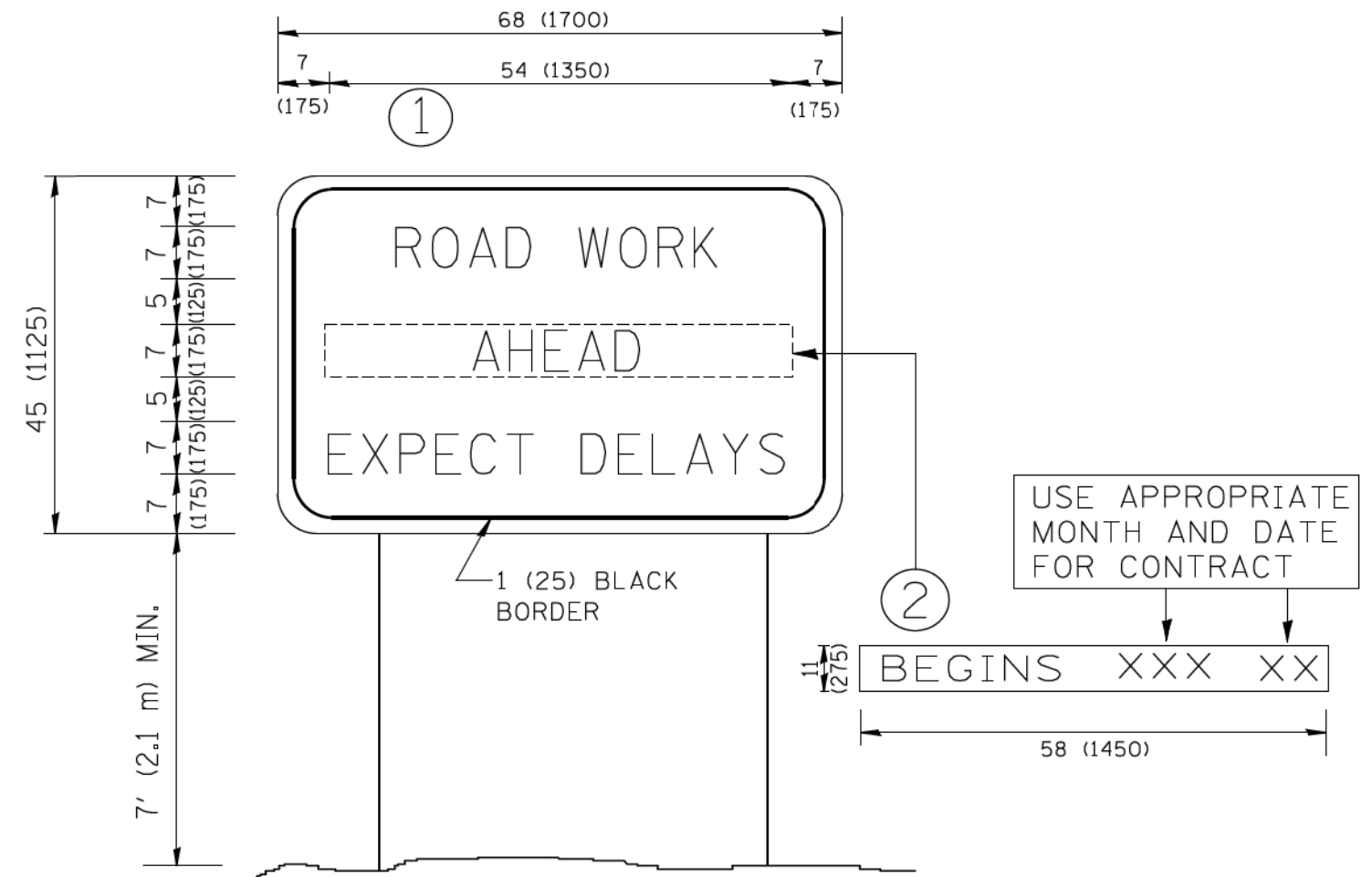
WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME = c:\p\work\p\1007\DRIVAKOSGN\d0108315\21.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 4/9,9999 ' / IN.	DRAWN -	REVISED - R. BORO 09-14-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-21	CONTRACT NO.	431	234	
	PLOT DATE = 9/14/2009	CHECKED -	REVISED -		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT								
	DATE -	REVISED -	REVISED -										



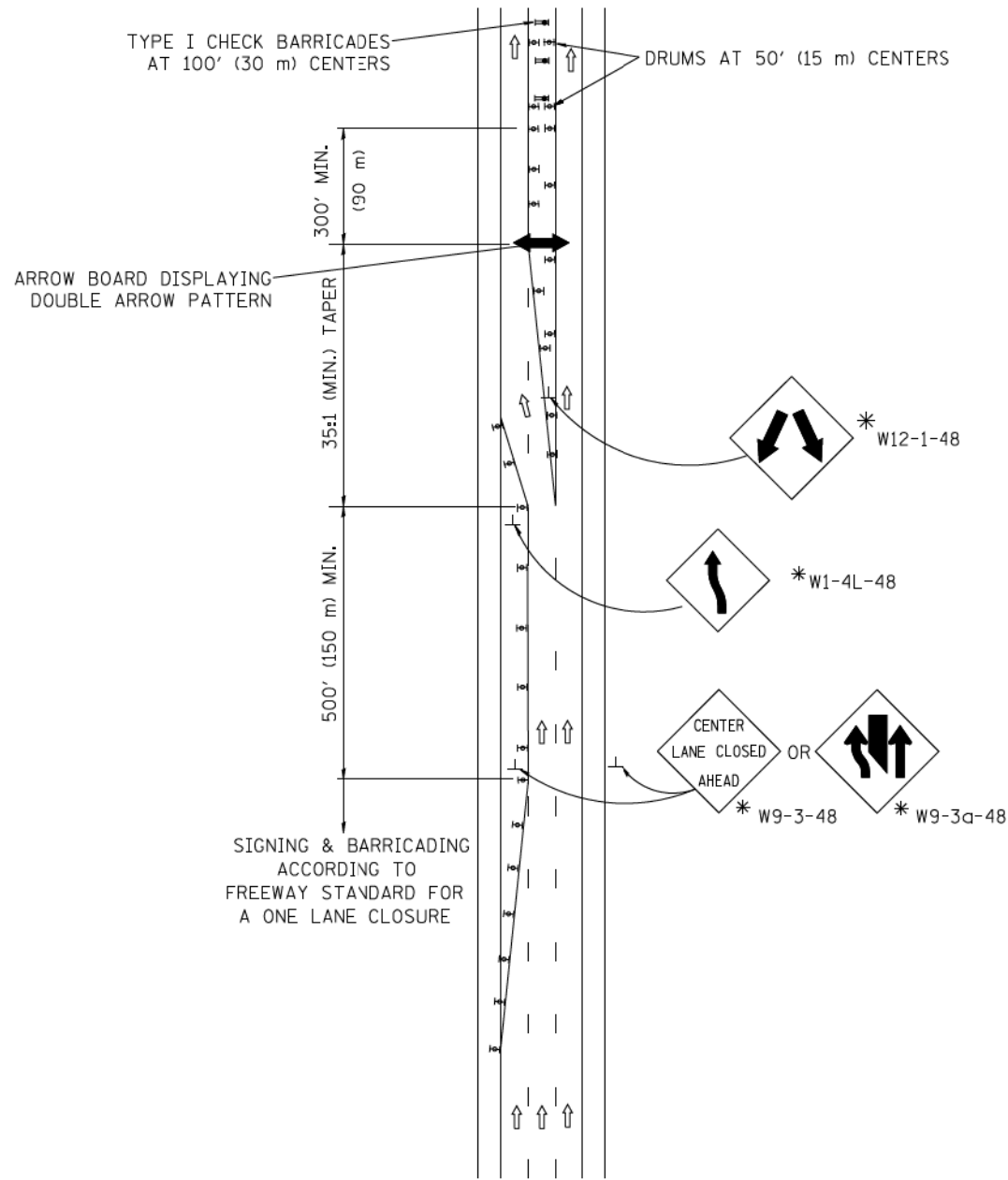
NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

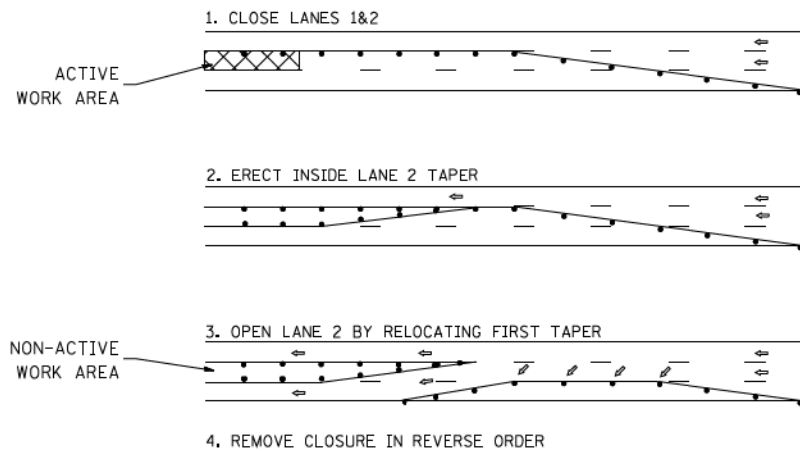
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\tc22.dgn	USER NAME = gagljanobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22	CONTRACT NO.	431	235
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED - C. JUCIUS 01-31-07									

CENTER LANE CLOSURE



INSTALLATION SEQUENCE

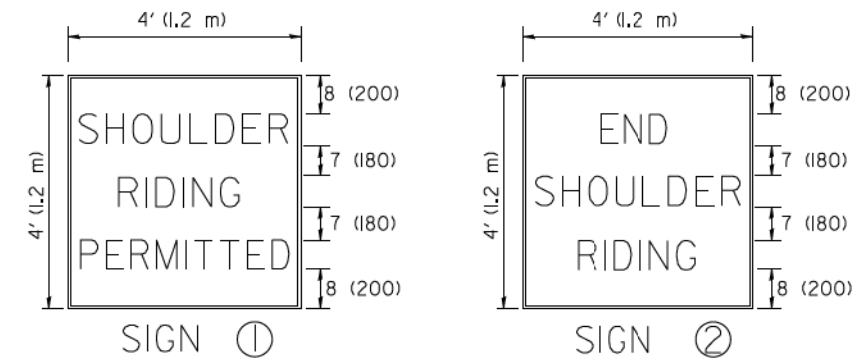
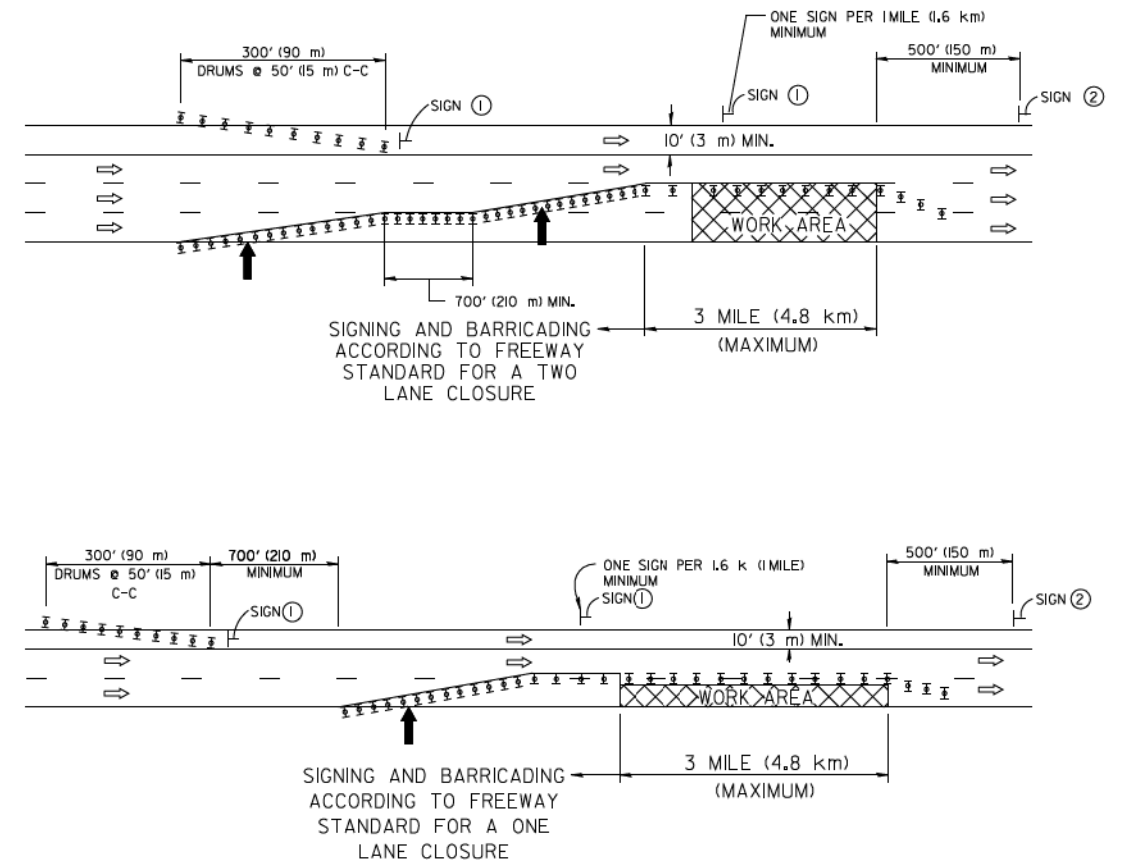


NOTES

1. DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
2. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.
3. CENTER LANE CLOSURE CONFIGURATION IS NOT TO BE USED WITH WORKERS PRESENT.

SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (150) SERIES 'C' LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
1 (25) BORDER

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➔ ARROWBOARD
- ▣ ACTIVE WORK AREA
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT *
- ⊥ TYPE II BARRICADE, OR DRUM WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME = W:\dststd\22x34\tc25.dgn

USER NAME = lryse

DESIGNED -

REVISED - J.A.F. 04-03

PLOT SCALE = 50,000' / IN.

DRAWN -

REVISED - S.P.B. 01-07

PLOT DATE = 1/26/2010

CHECKED -

REVISED - S.P.B. 12-09

DATE -

REVISED -

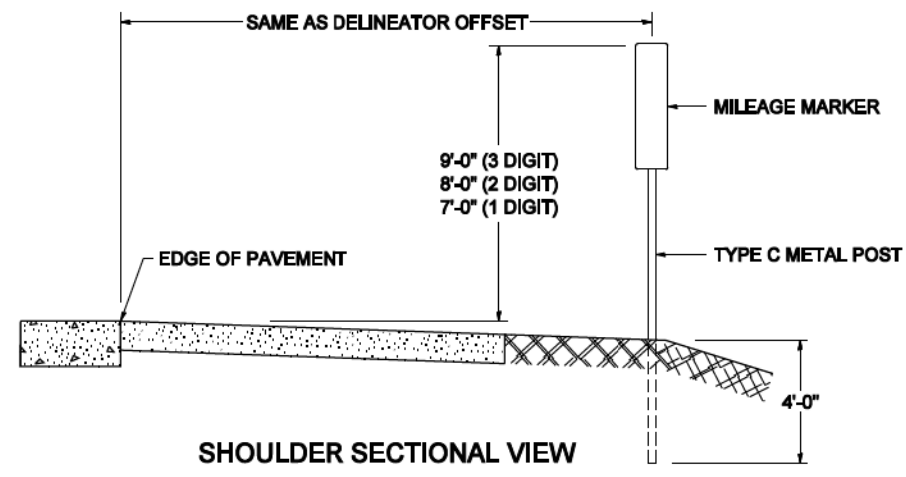
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
CENTER LANE CLOSURE SHOULDER LANE

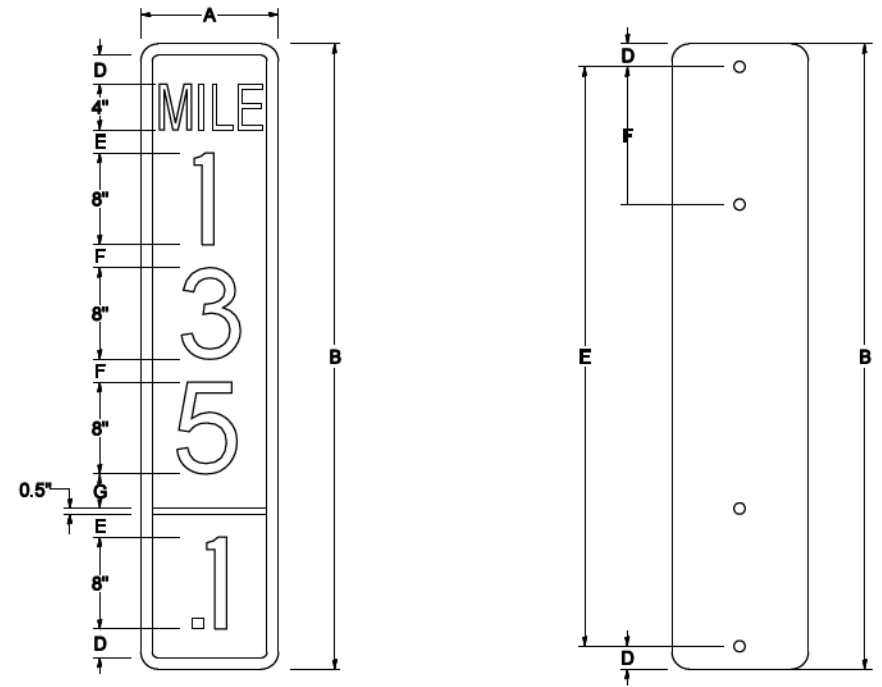
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	236
TC-25			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

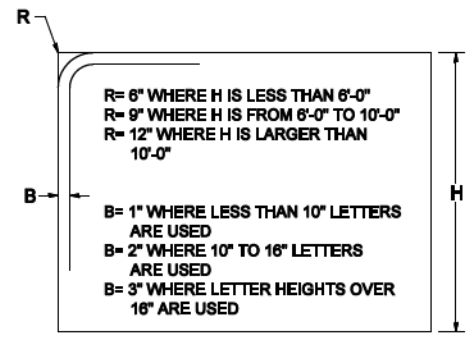


SIGN SIZE	DIMENSIONS						
	A	B	C	D	E	F	G
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5

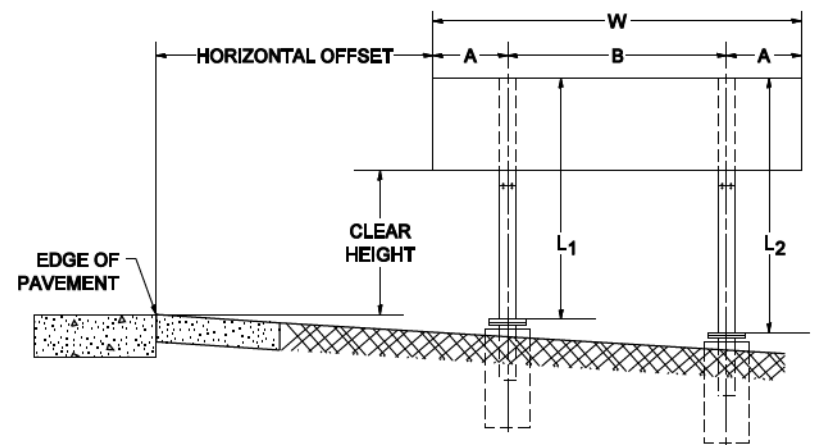
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES					BLANK STD.	
	LINES						
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

BORDER AND RADIUS LAYOUT



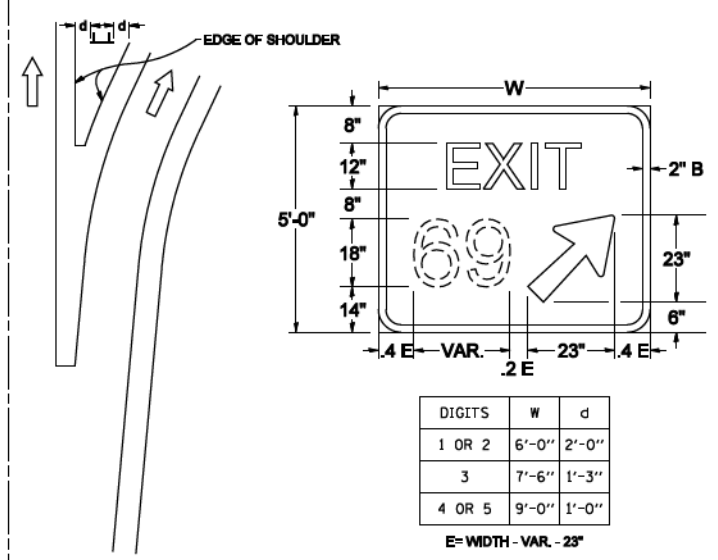
MAJOR GUIDE SIGN LAYOUT



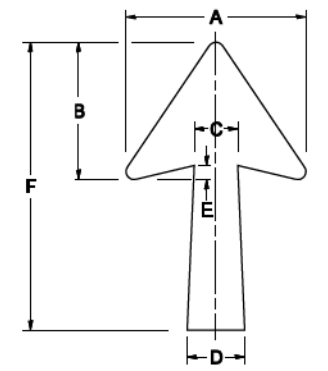
NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

"L₁" IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.
 "A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

GORE SIGNS

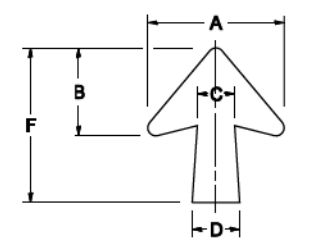


STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



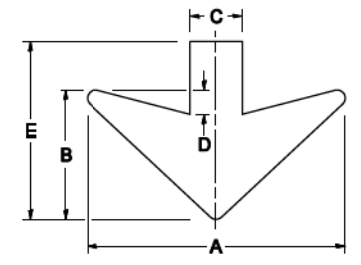
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 7/8	15 1/8	11 3/8	3 3/4	5	1 3/8	24 1/4	1 1/8
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	29 1/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	35 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 3/8	3 3/8		18 1/4	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS

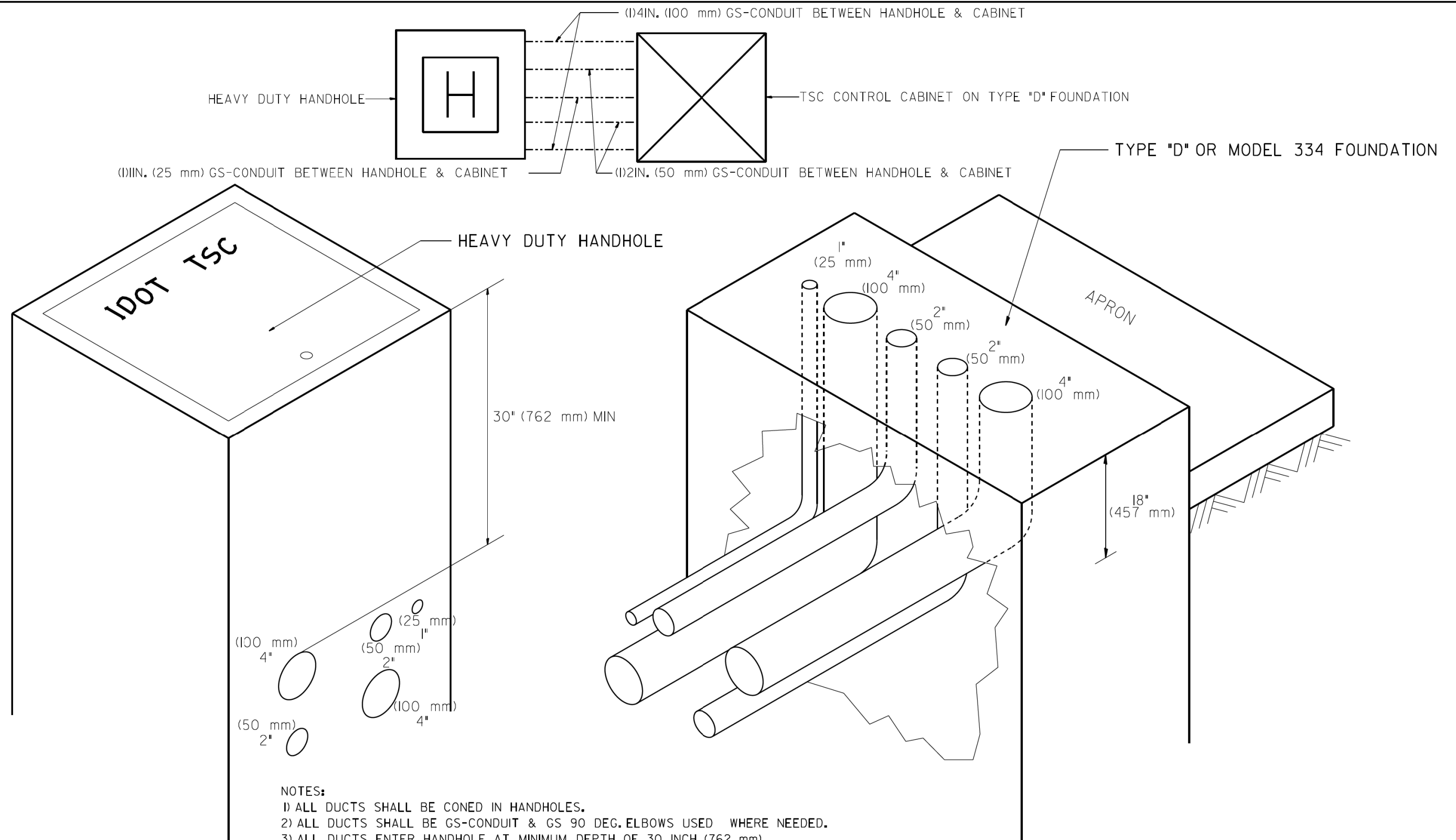


ARROW SYMBOL	A	B	C	D	E	F	R
17 1/4 x 14 1/4	14 1/4	9 5/8	3 3/8	4 1/2	1 5/8	17 1/4	3/4
20 1/4 x 17 1/4	17 1/4	11 3/4	4 3/8	5 5/8	1 1/2	20 1/4	
25 x 21 3/8	21 3/8	14 1/4	5	6 3/4	1 3/4	25	1
9 5/8 x 8 3/8	8 3/8	5 3/8	2 3/8	2 3/8		9 5/8	1/2

DOWN ARROWS



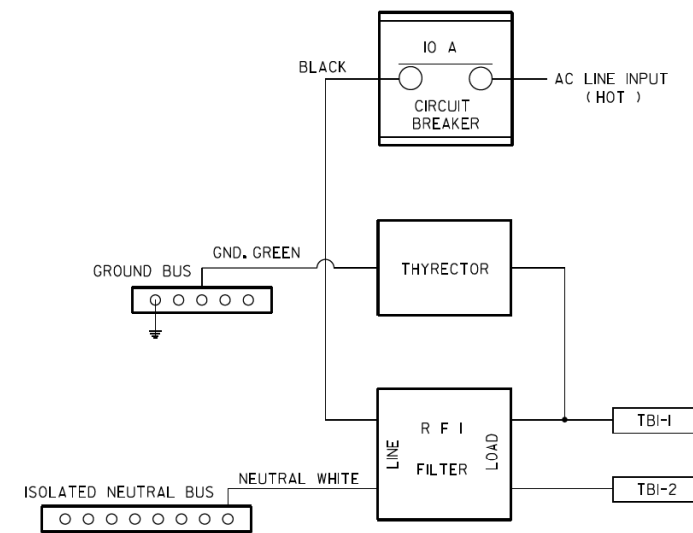
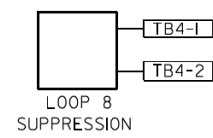
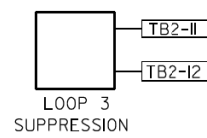
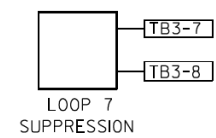
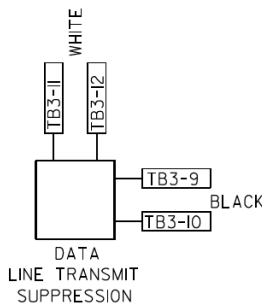
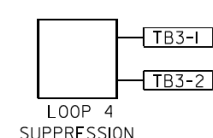
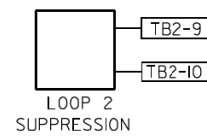
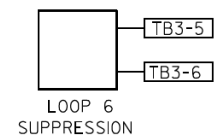
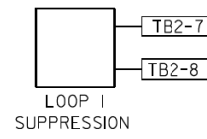
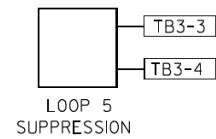
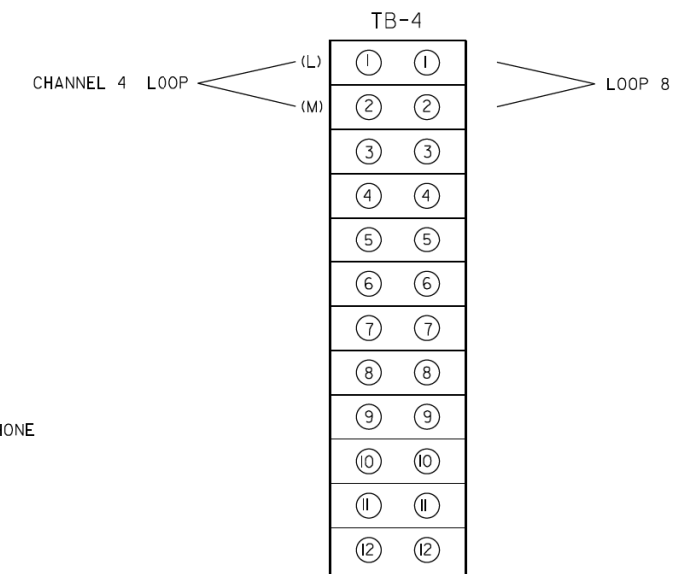
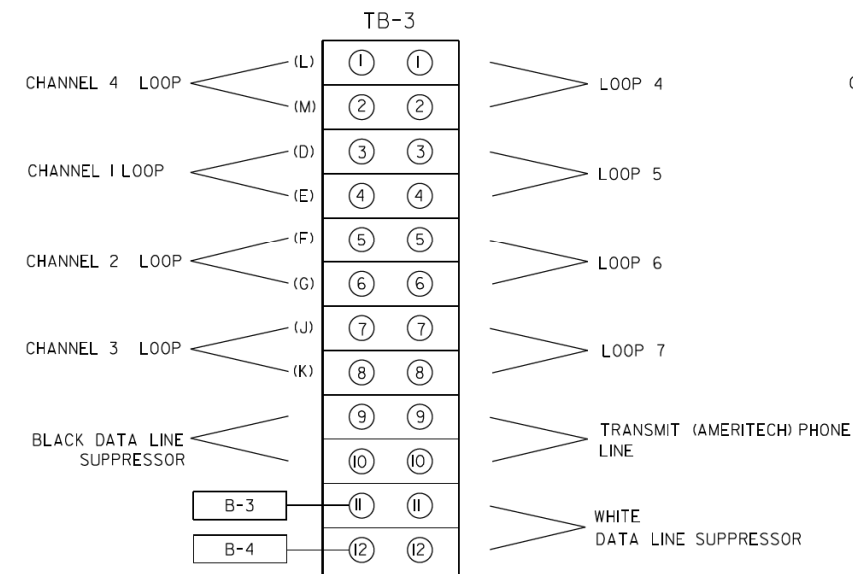
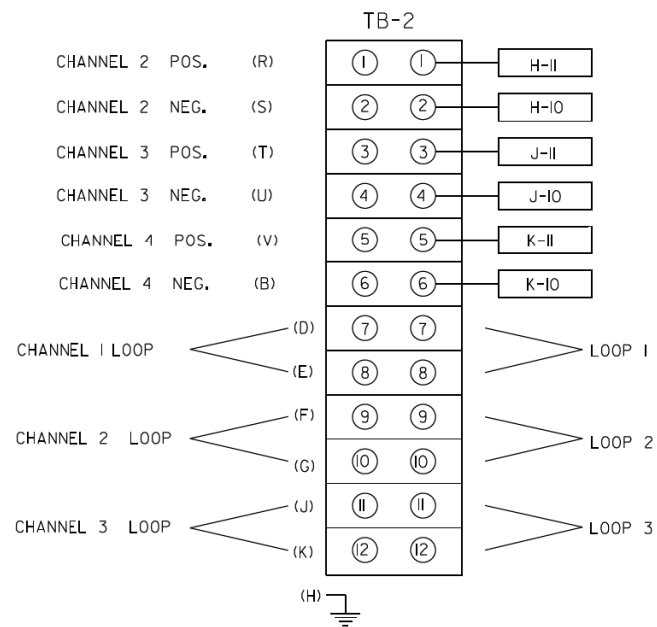
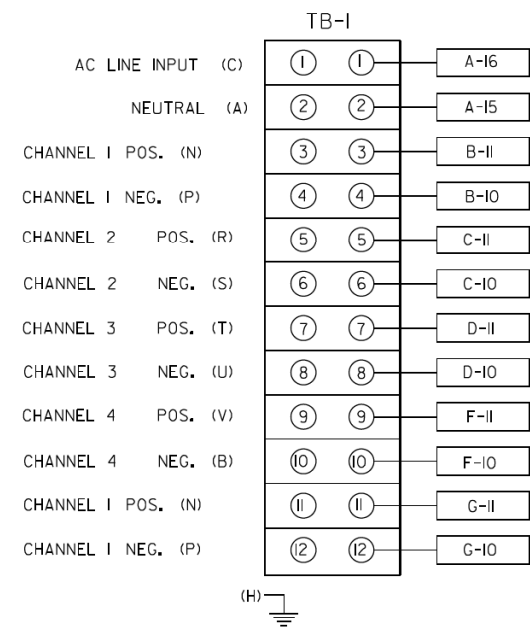
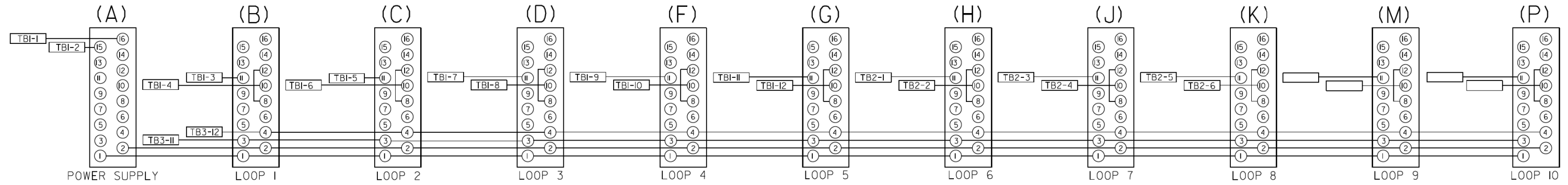
ARROW SYMBOL	A	B	C	D	E	R
16 1/2 x 24	24	12	5	1 1/2	16 1/2	3/4
22 x 32	32	16	6 1/2	3	22	1



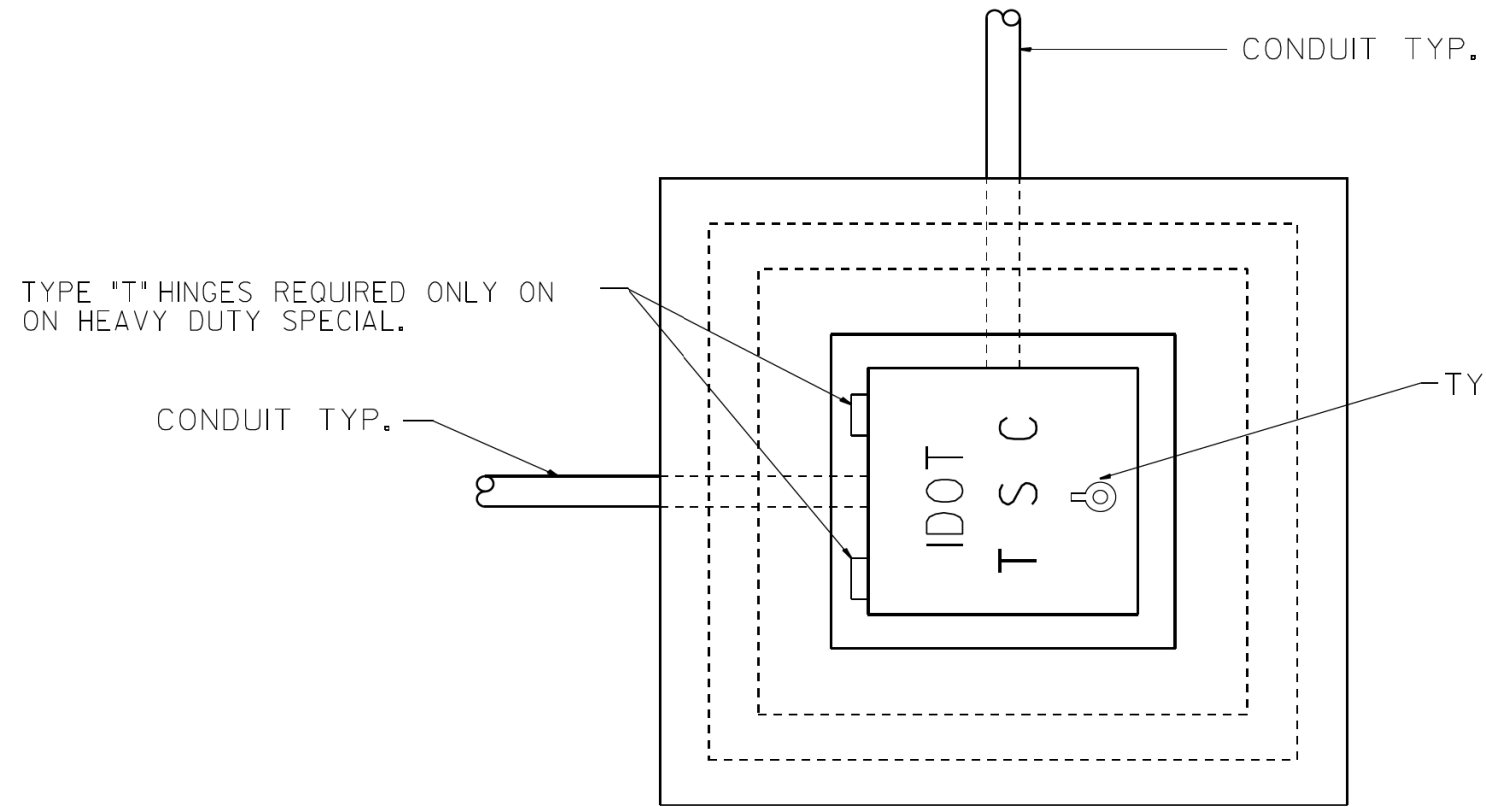
- NOTES:
- 1) ALL DUCTS SHALL BE CONED IN HANDHOLES.
 - 2) ALL DUCTS SHALL BE GS-CONDUIT & GS 90 DEG. ELBOWS USED WHERE NEEDED.
 - 3) ALL DUCTS ENTER HANDHOLE AT MINIMUM DEPTH OF 30 INCH (762 mm)
 - 4) ALL HANDHOLE COVERS SHALL READ "IDOT TSC".
 - 5) ALL CABINET HANDHOLES SHALL BE HEAVY DUTY.
 - 6) DUCTS SHALL BE CENTERED IN CABINET FOUNDATION/HANDHOLE AS SHOWN.
 - 7) CONDUITS SHALL BE SPACED 305 mm (1 FOOT) CENTER TO CENTER IN HEAVY DUTY HANDHOLE.
 - 8) INSTALL 3/4" X 10' (20 mm X 3 m) COPPER CLAD STEEL GROUND ROD IN HDHH PROVIDED AS CABINET PAD. EXOTHERMIC WELD CONNECTION FROM GROUND ROD TO #6 GROUND WIRE INSULATED (GREEN).
 - 9) BOND ALL GSC CONDUITS IN CABINET FOUNDATION.
 - 10) INSTALL #6 GROUND WIRE IN 1/2 IN. (25 mm) GSC FROM HANDHOLE TO CABINET.
 - 11) TYPE "D" FOUNDATION SHALL BE 18" FROM TOP OF FOUNDATION TO FINISHED GRADE.

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 09/96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	CABINET - HANDHOLE CONDUIT DETAIL	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.M.	REVISED - 03/99						431	238	
#MODELNAME#		CHECKED - R.L.	REVISED - 04/99			CONTRACT NO.					
		DATE - 06/05/95	REVISED - 07/2010			SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

BACK VIEW OF TONE RACK



FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TYPE 3 CABINET WIRING DIAGRAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - G.M.	REVISED - 05-99						431	239	
#MODELNAME#		CHECKED - R.L.	REVISED -			CONTRACT NO.					
		DATE - 12-17-95	REVISED -			SCALE: NONE	SHEET	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.

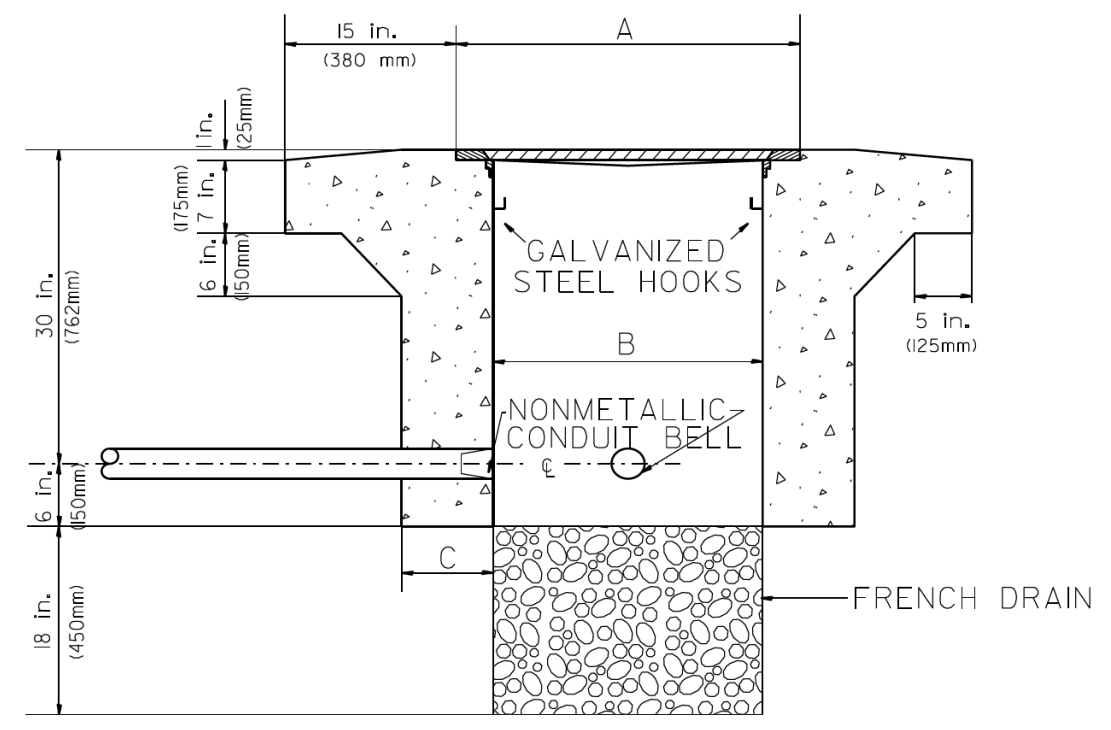


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)



ELEVATION

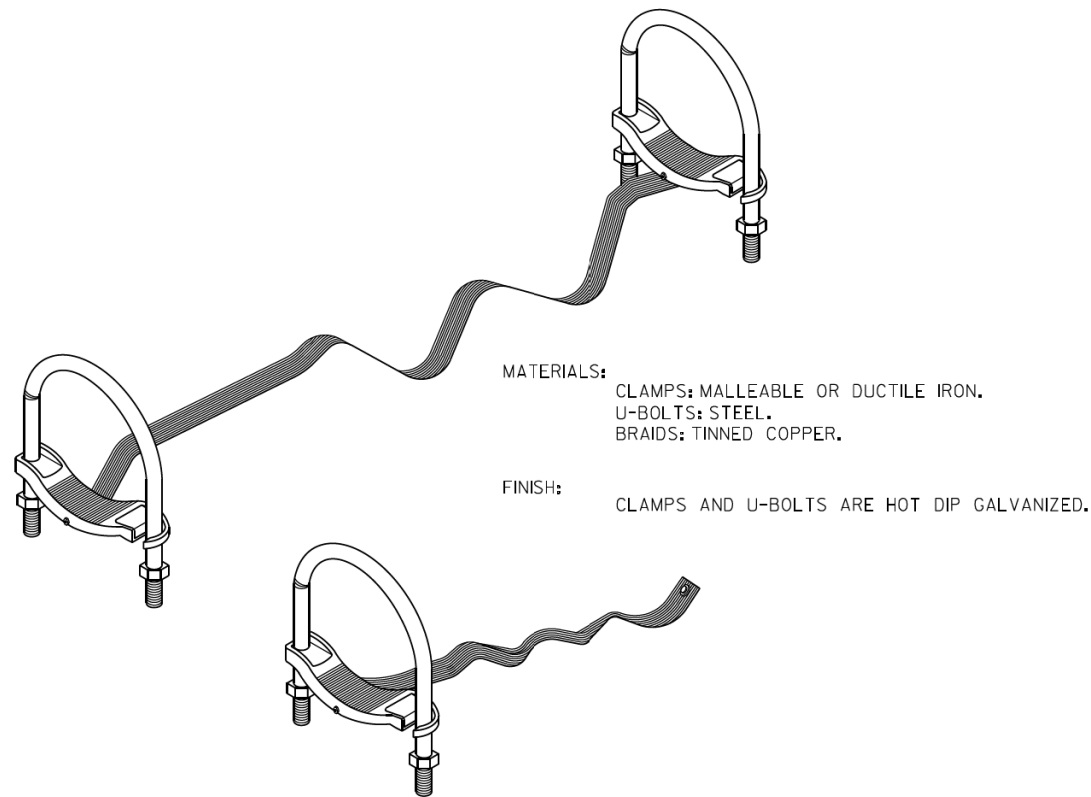
HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

(FRAME AND COVER 405 LBS. (184 Kg. (405))

PC CONCRETE - HEAVY DUTY HAND HOLE

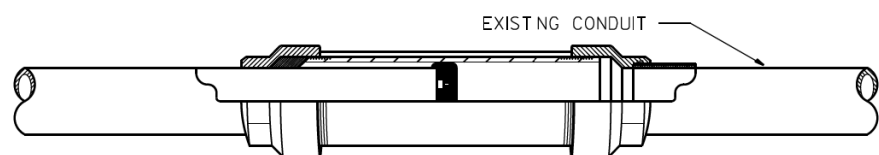
FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 04/97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PC CONCRETE - HEAVY DUTY HAND HOLE			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.N.	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
#MODELNAME#		CHECKED - R.L.	REVISED -										
		DATE - 09/11/96	REVISED -										



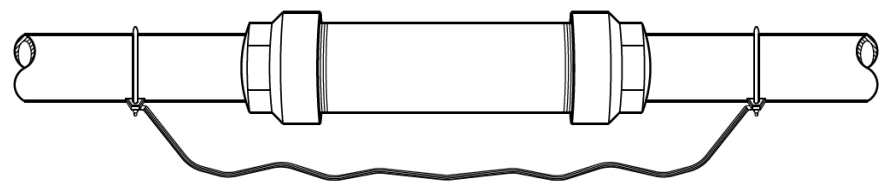
MATERIALS:
 CLAMPS: MALLEABLE OR DUCTILE IRON.
 U-BOLTS: STEEL.
 BRAIDS: TINNED COPPER.

FINISH:
 CLAMPS AND U-BOLTS ARE HOT DIP GALVANIZED.

GROUNDING & BONDING JUMPERS FOR RIGID STEEL, IMC & EMT



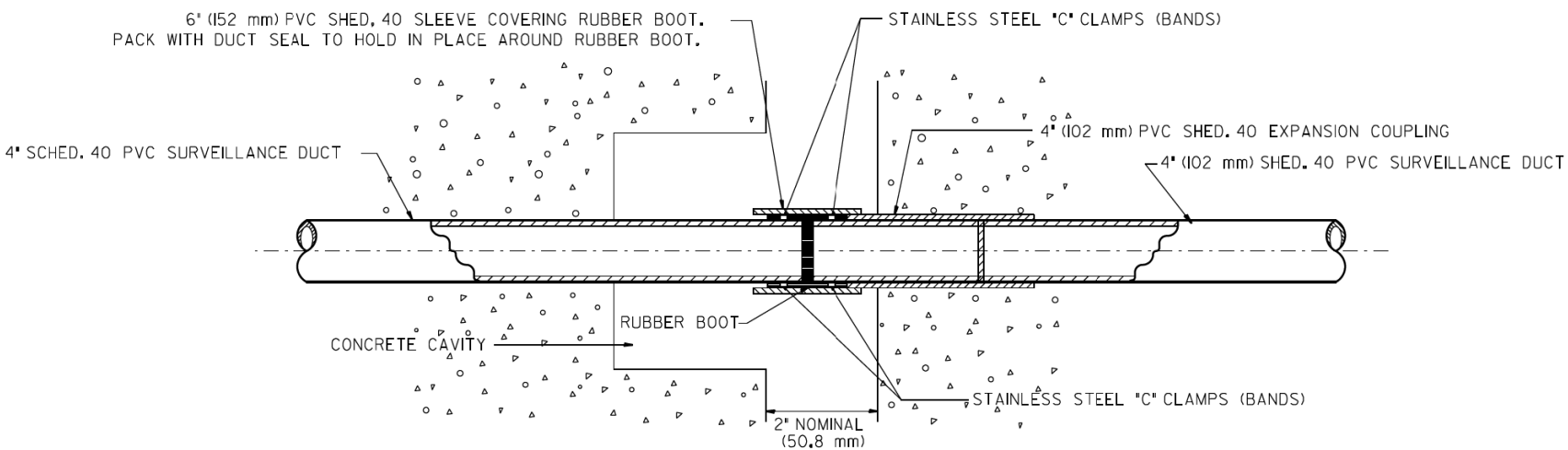
CROSS SECTION



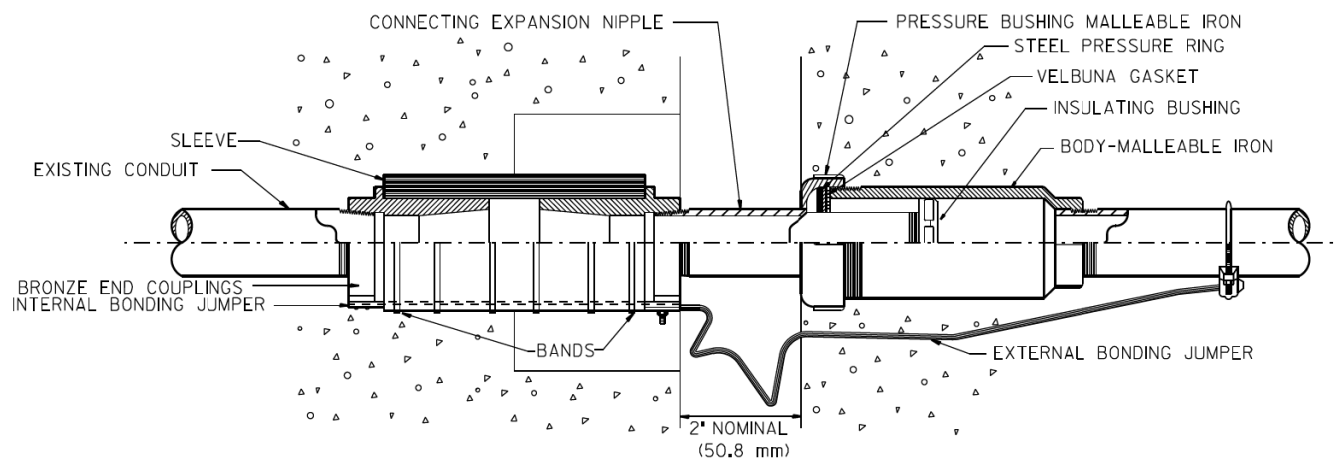
BONDING EXPANSION FITTINGS

MATERIALS:
 HEAD: MALLEABLE OR DUCTILE IRON.
 SLEEVE: STEEL.
 INSULATING BUSHING: PHENOLIC.

FINISH:
 HOT DIP GALVANIZED.



EXPANSION/DEFLECTION FITTING



COMBINATION DEFLECTION/EXPANSION FITTINGS FOR RIGID METAL CONDUIT & IMC

FITTING CAN BE USED EXPOSED OR EMBEDDED IN CONCRETE.

MATERIALS:
 SLEEVE: NEOPRENE.
 END COUPLINGS: BRONZE.
 BONDING JUMPER: TINNED COPPER BRAIDS.
 BANDS: STAINLESS STEEL.

FINISH:
 ALL MALLEABLE, DUCTILE IRON OR STEEL PARTS
 ARE HOT DIP GALVANIZED.

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 03/99
#FILE#		DRAWN - G.M.	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - R.L.	REVISED -
#MODELNAME#	PLOT DATE = #DATE#	DATE - 01/22/98	REVISED -

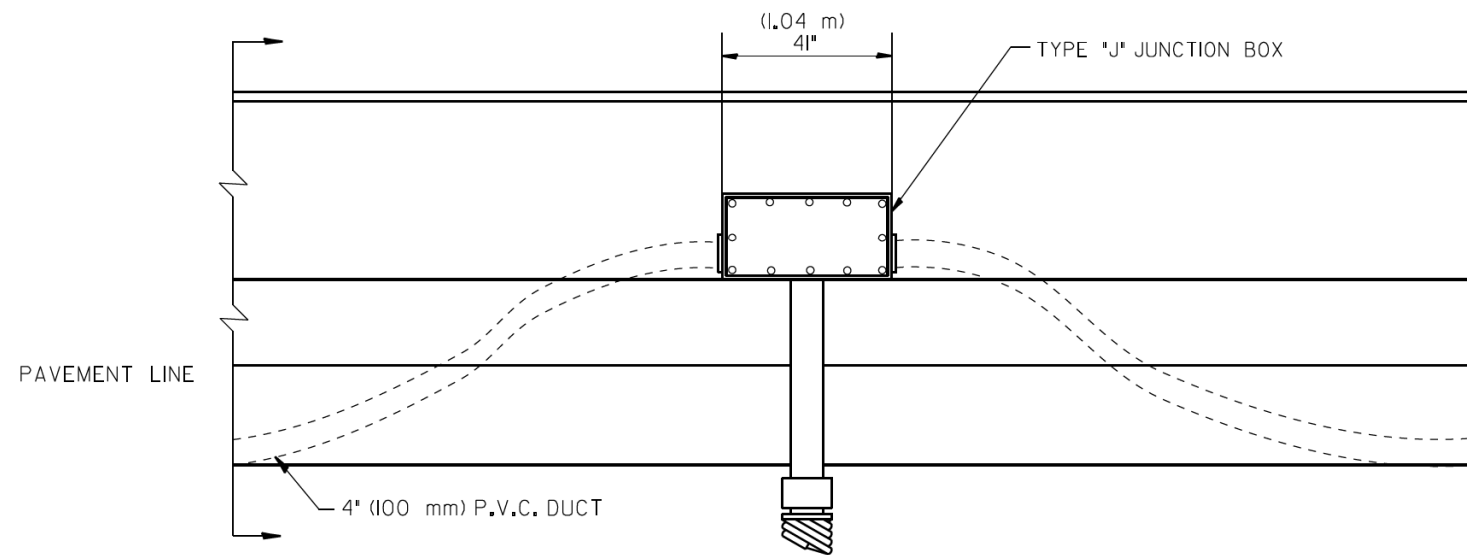
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

EXPANSION FITTING DETAIL SHEET

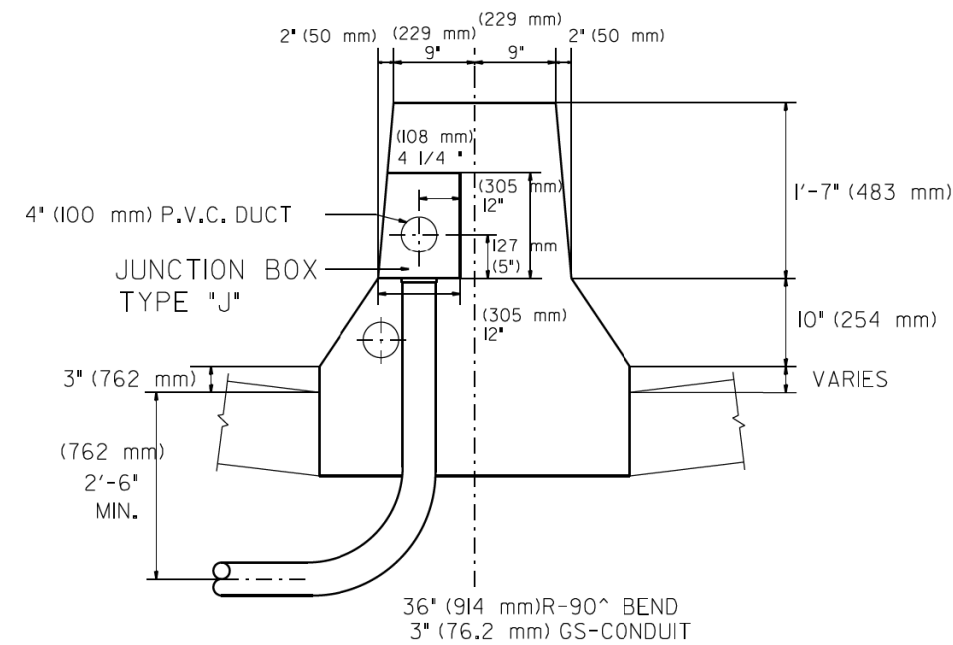
SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	241
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

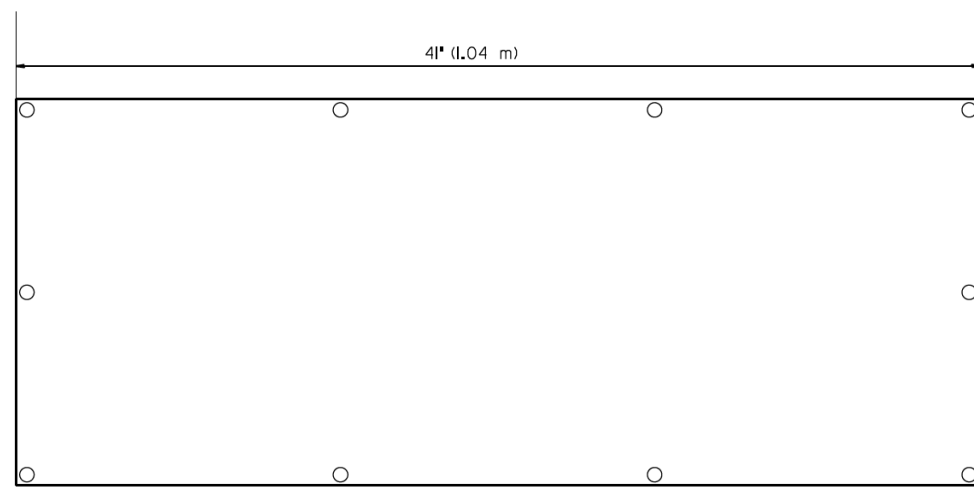
TRAFFIC SYSTEMS CENTER (TY-ITSC-400#18)



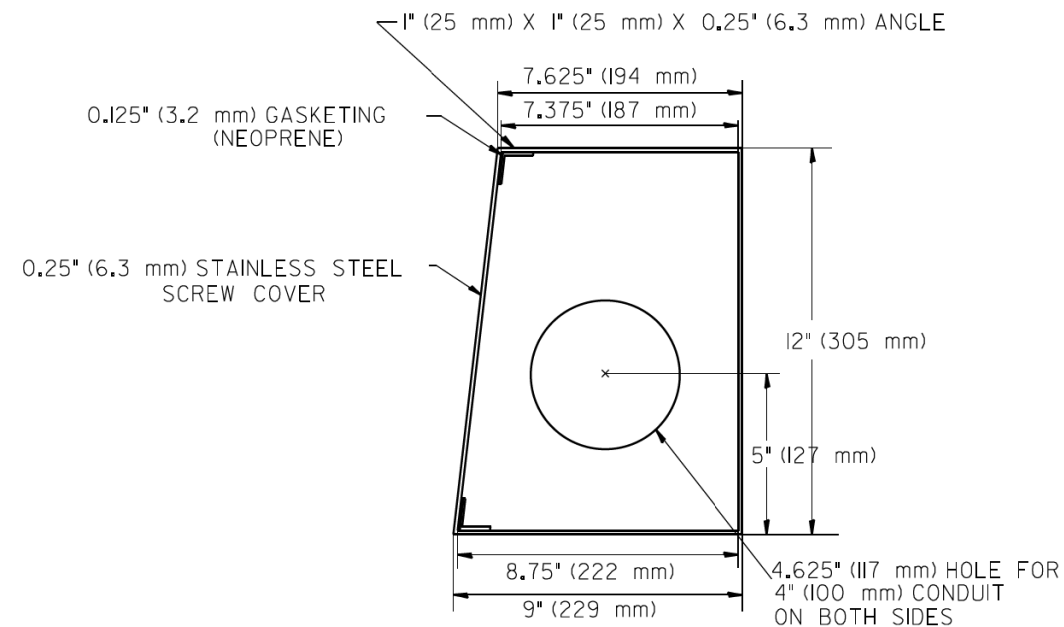
ELEVATION
BARRIER WALL DUCT DETAIL



DOUBLE FACED BARRIER WALL



FRONT VIEW



SIDE VIEW
JUNCTION BOX TYPE "J"

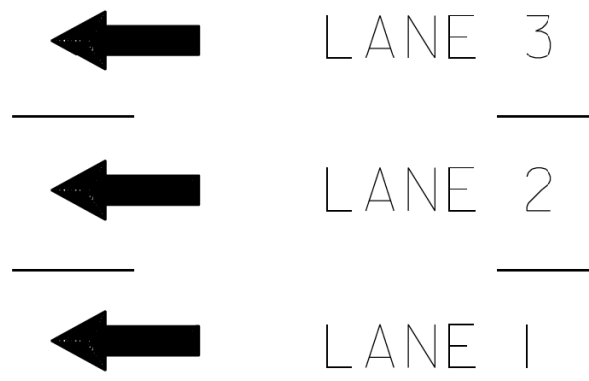
ALL WELDS SHALL BE CONTINUOUS AND LEAK PROOF
BOX AND COVER SHALL BE 0.25" (6.4 mm) TYPE 316 STAINLESS STEEL

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15' (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J"
AND FOR A SMOOTH TRANSITION OF 4" (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

FILE NAME =	USER NAME = #USER#	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	JUNCTION BOX "TYPE J" IN DOUBLE FACED BARRIER WALL	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.W.	REVISED -						431	242	
#MODELNAME#		CHECKED - J.G.	REVISED -			CONTRACT NO.					
		DATE - 04-19-05	REVISED -			SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

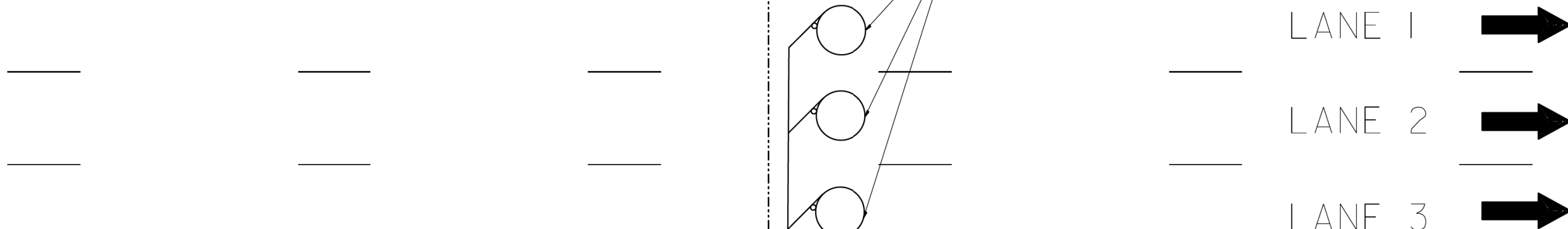
HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER



(1)10FT. (3 m) OF 1 1/4 IN. (32 mm) (P-DUCT (TRENCHED))

(1)120FT. (37 m) OF 2 IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED

(1)6FT. DIA. (1.83 m) INDUCTION LOOP CENTERED IN EACH LANE



HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

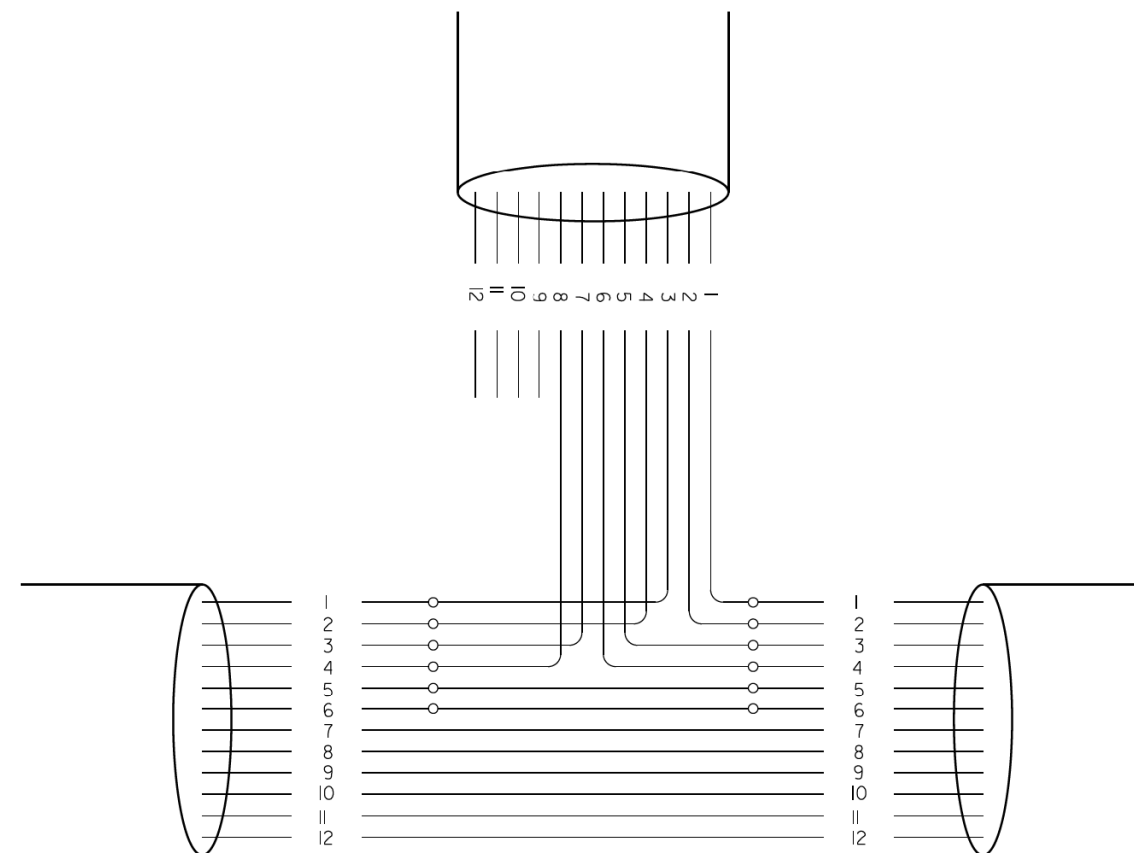
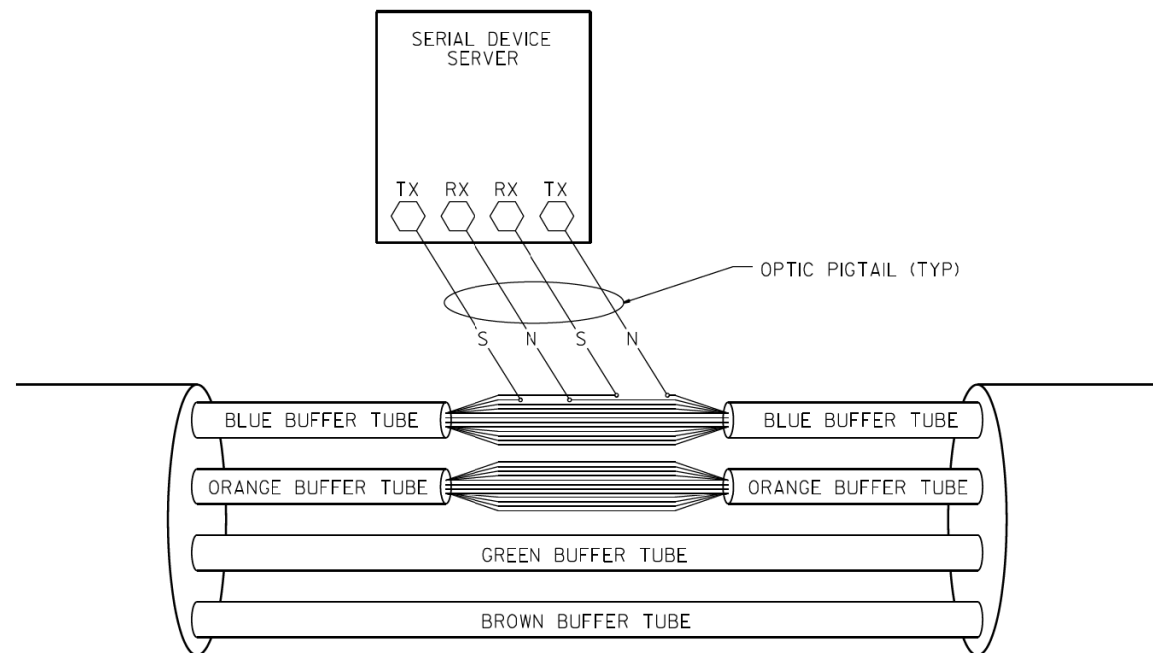
(1)CORE HOLE
(1)10FT. (3 m) OF 1 1/4 IN. (30.0 mm) P-DUCT (TRENCHED)

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

NOTE:
THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURE FOR PAYMENT.

INSTALL AT STATIONS.

FILE NAME =	USER NAME = #USER#	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	3 LANE COUNT STATION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.M.	REVISED -							431	243	
#MODELNAME#		CHECKED - J.G.	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO.				
		DATE - 01-31-07	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

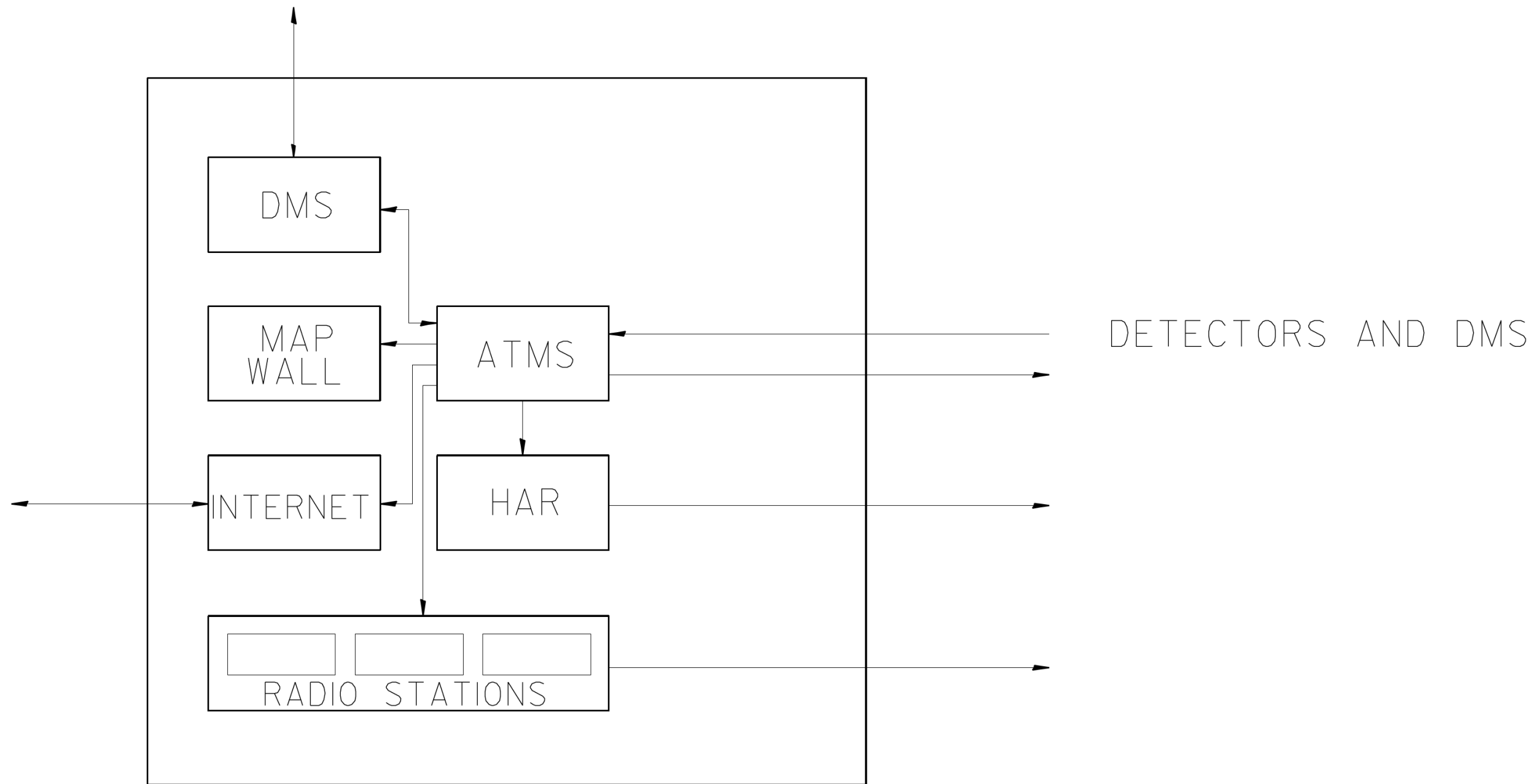


PHYSICAL SPLICE DETAILS (TYP)
(NOT TO SCALE)

FIBERS		FUNCTION	APPLICATION DESCRIPTION
FIBER NO.	COLOR CODE		
1	BLUE	IN TX	DATA CIRCUIT
2	ORANGE	IN RX	
3	GREEN	OUT RX	
4	BROWN	OUT TX	
5	SLATE	IN TX	DMS
6	WHITE	IN RX	
7	RED	OUT RX	
8	BLACK	OUT TX	
9	YELLOW	IN TX	CCTV
10	VIOLET	IN TX	
11	ROSE	OUT RX	
12	AQUA	OUT TX	

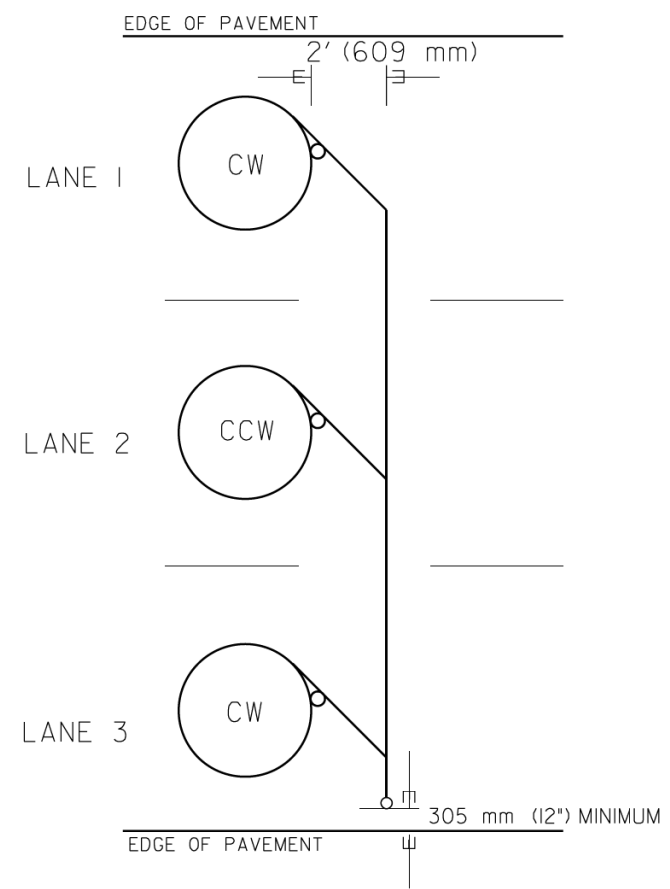
NOTE:

1.- THIS DIAGRAM IS PROVIDED FOR ILLUSTRATION PURPOSES ONLY AND DEPICTS A TYPICAL FIBER OPTIC SPLICE.

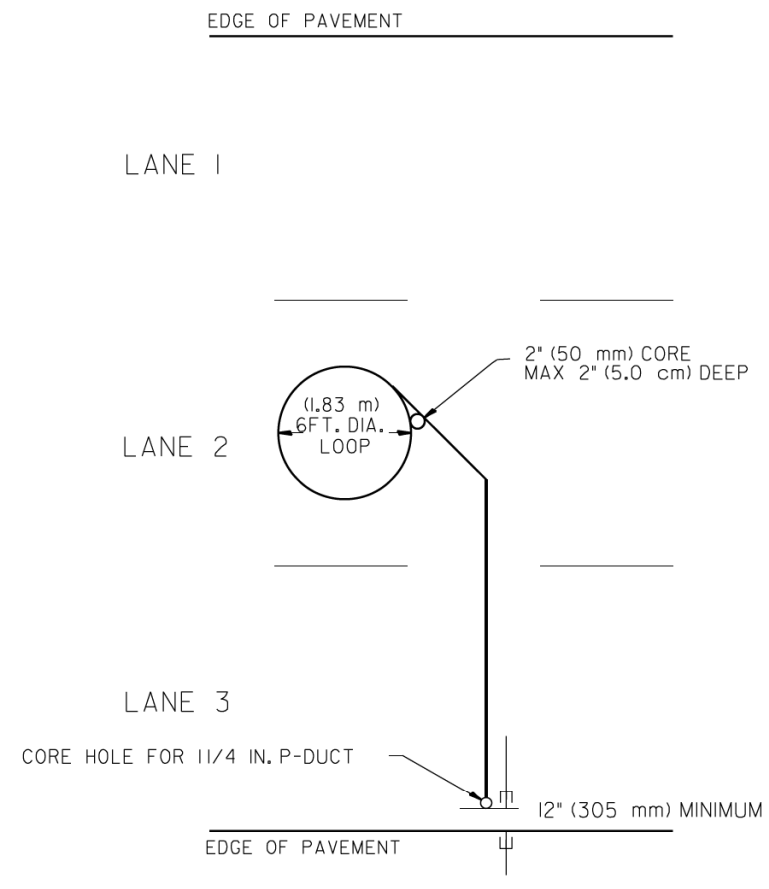


TSC

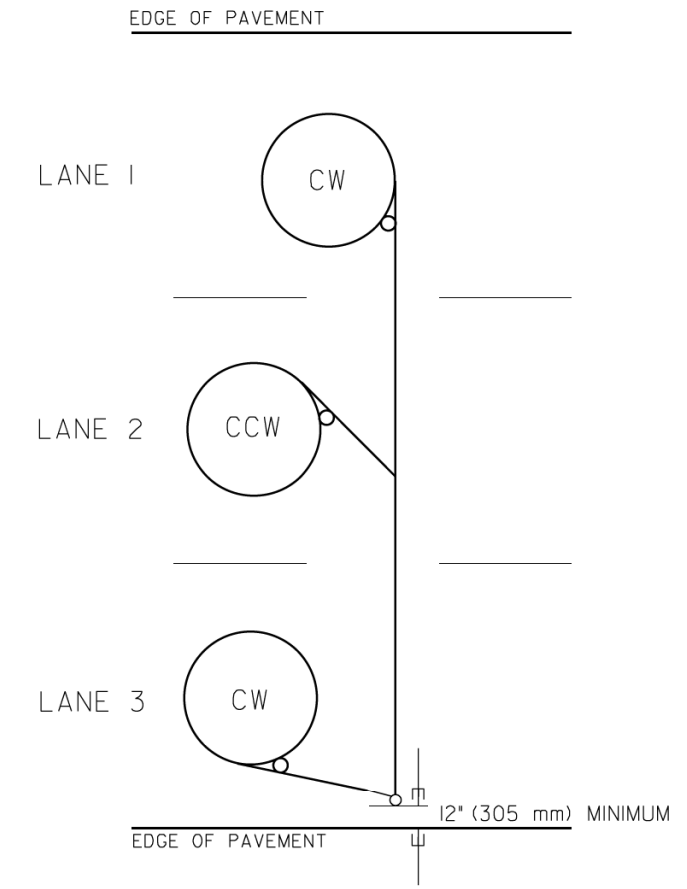
FILE NAME = C:\d106010\155TCTYP.DGN	USER NAME = #USER#	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TSC ATMS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.				431	245
#MODELNAME#		CHECKED - J.G.	REVISED -					CONTRACT NO.				
		DATE - 01/07/2010	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



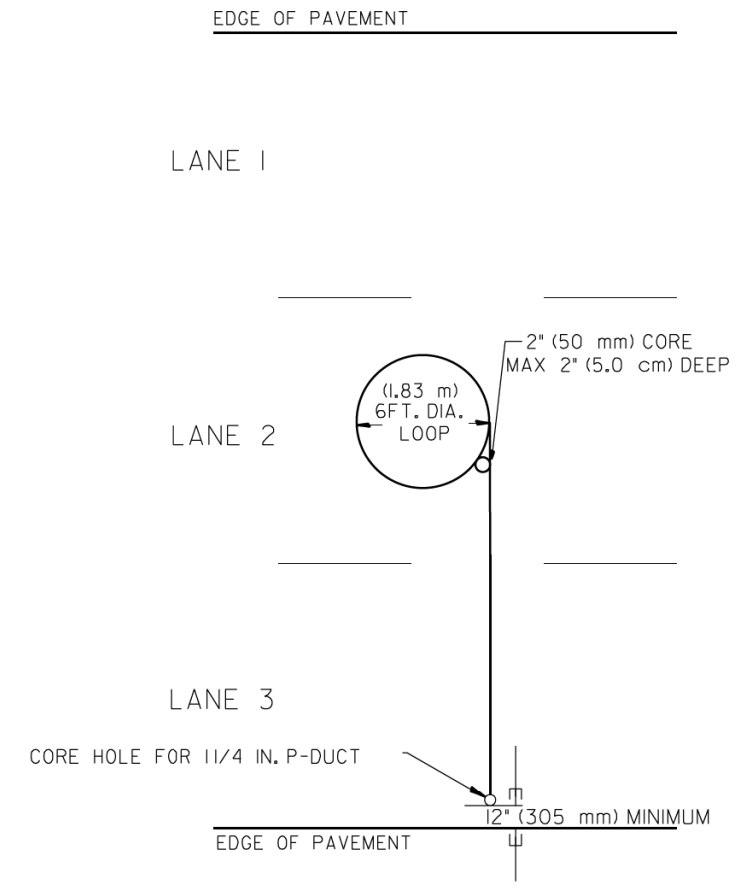
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



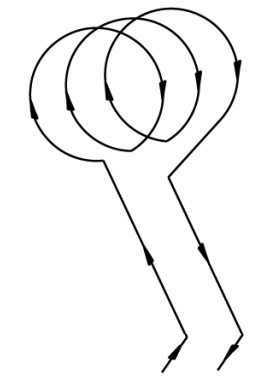
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



WIRING DETAILS

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

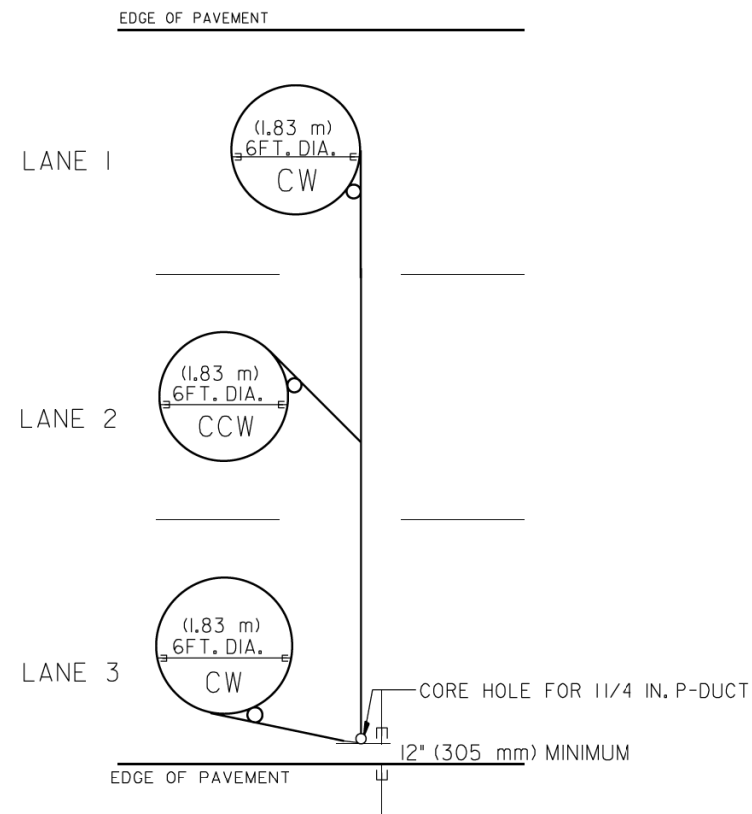
FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 6/94
#FILE#		DRAWN - G.M.	REVISED - 9/96
	PLOT SCALE = #SCALE#	CHECKED - R.L.	REVISED - R.L. 03/2011
#MODELNAME#	PLOT DATE = #DATE#	DATE - 6-22-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

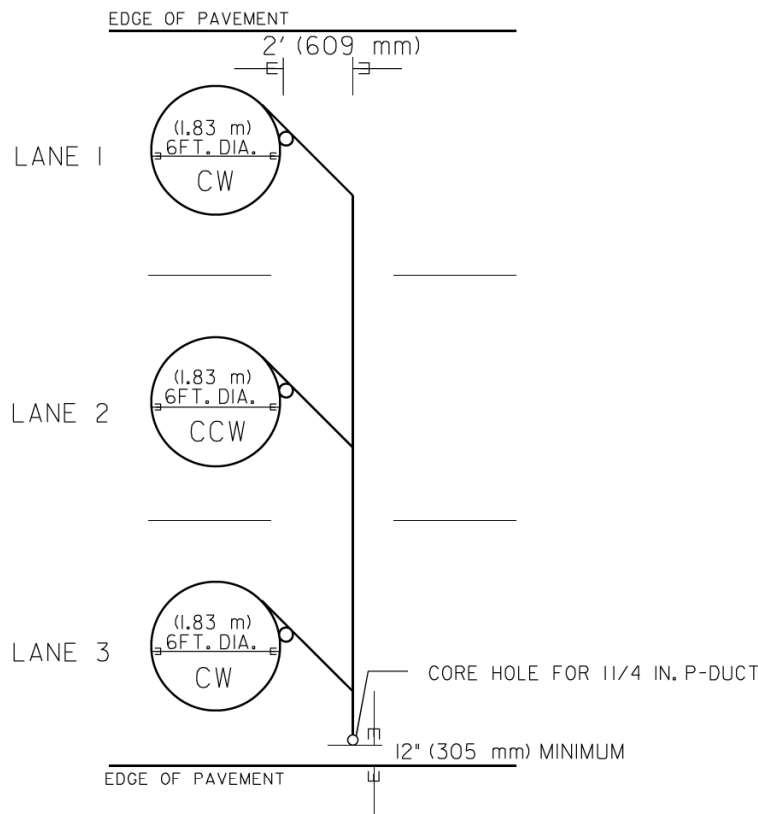
EXISTING ROUND LOOP
INSTALLATION

SCALE: NONE SHEET OF SHEETS STA. TO STA.

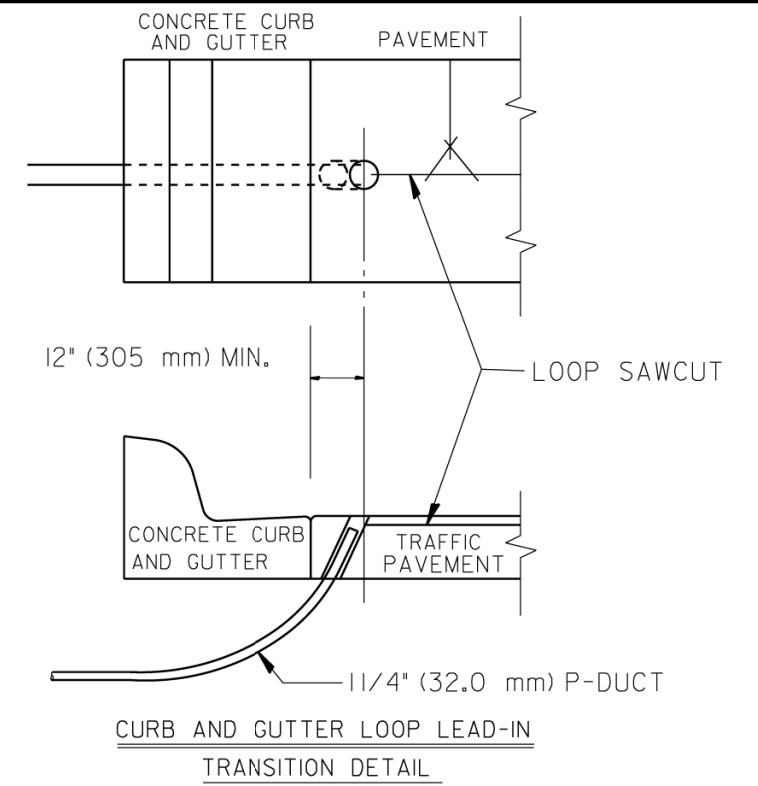
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	246
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



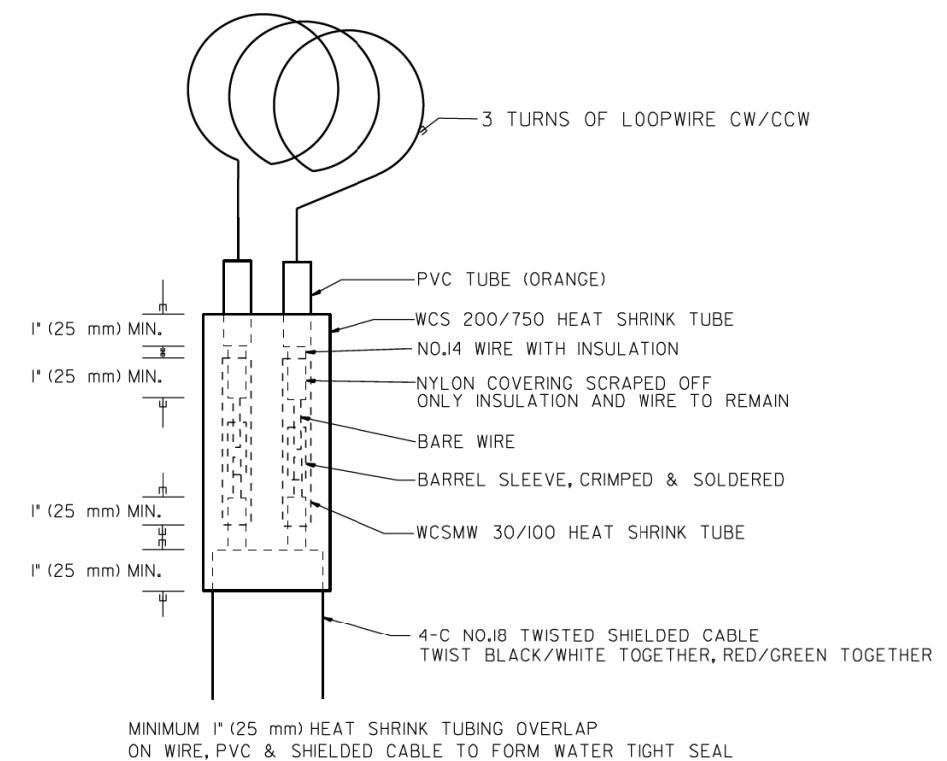
TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



CURB AND GUTTER LOOP LEAD-IN
TRANSITION DETAIL

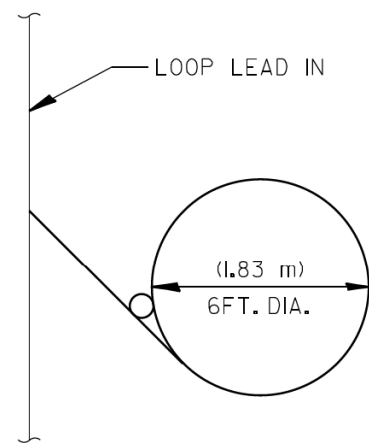
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

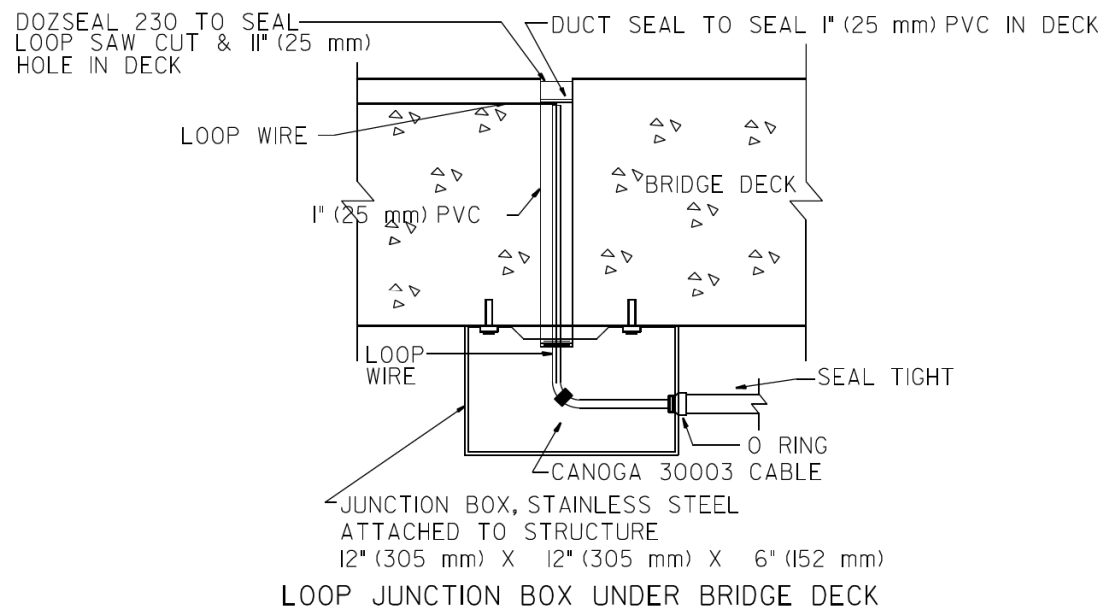


LOOP SPLICING REQUIREMENTS

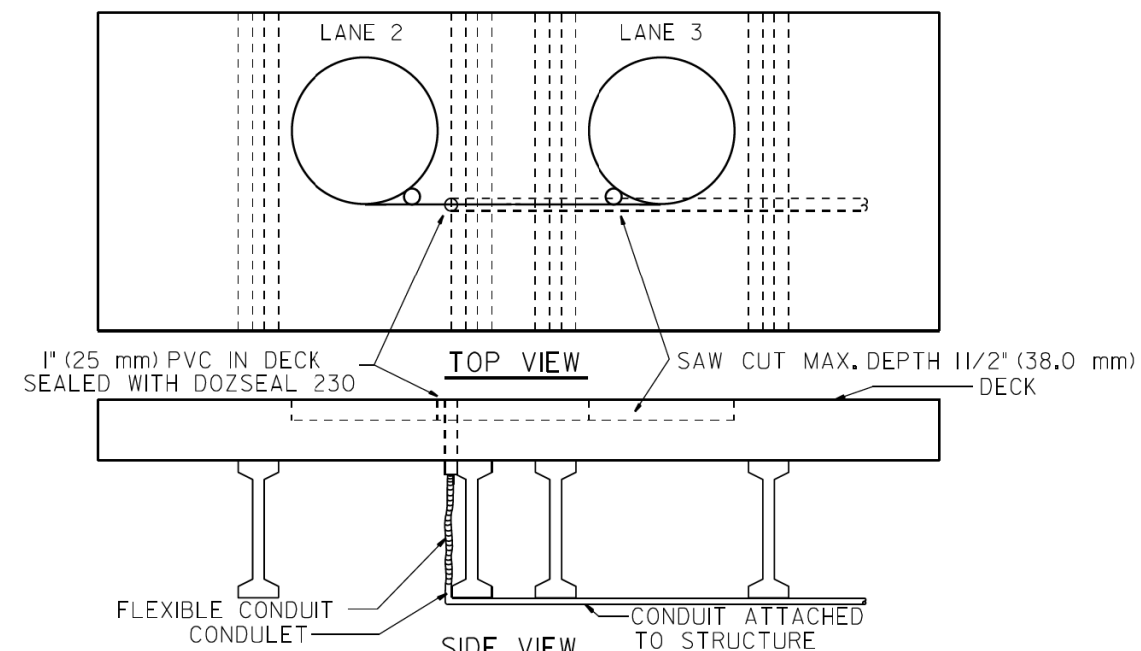
FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 6/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	EXISTING ROUND INDUCTION LOOP TYPICALS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.M.	REVISED - 10/96						431	247	
#MODELNAME#		CHECKED - R.L.	REVISED - R.L. 03/2011			SCALE: NONE		SHEET OF SHEETS		STA. TO STA.	
		DATE - 6-22-94	REVISED -			TRAFFIC SYSTEMS CENTER (TY-ITSC-418#2)		CONTRACT NO.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



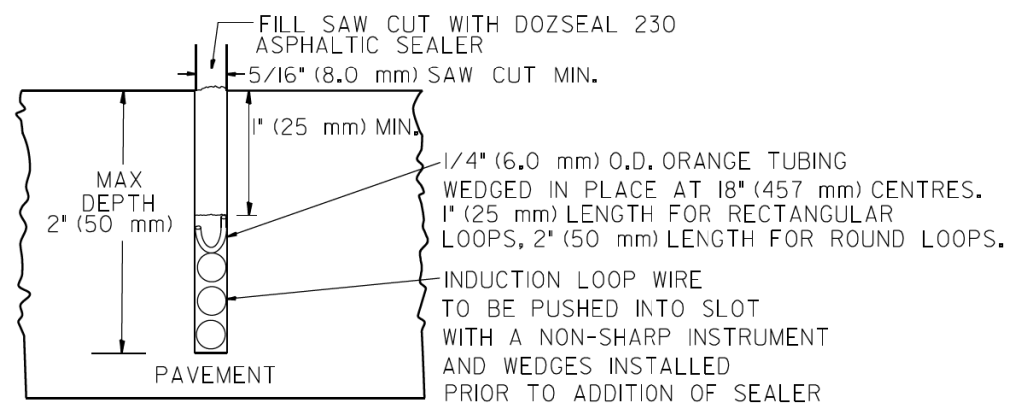
TYPICAL LOOP SAWCUT LAYOUT



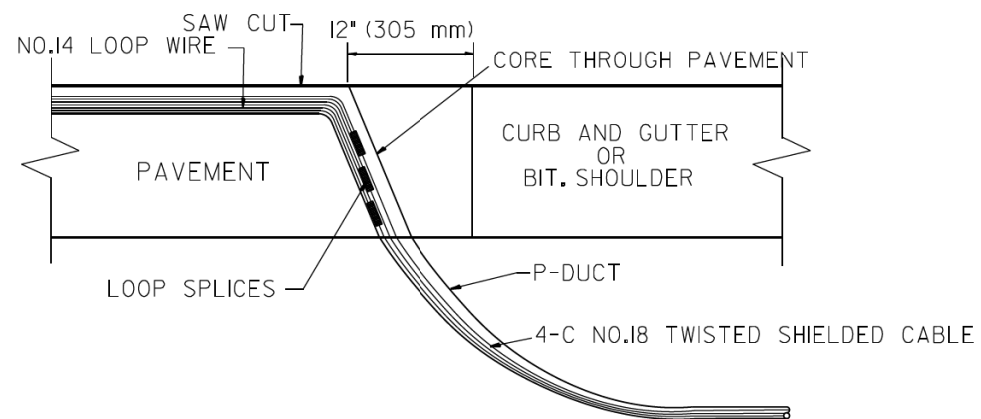
LOOP JUNCTION BOX UNDER BRIDGE DECK



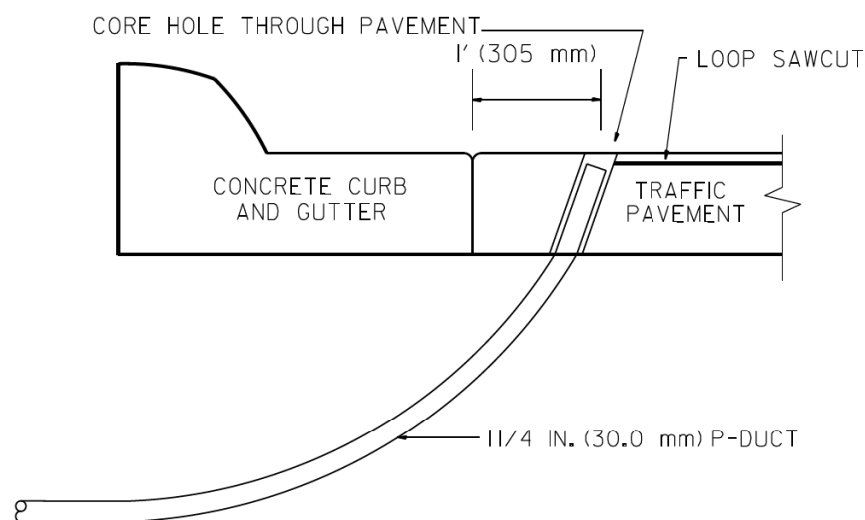
LOOP TRANSITION IN BRIDGE DECK



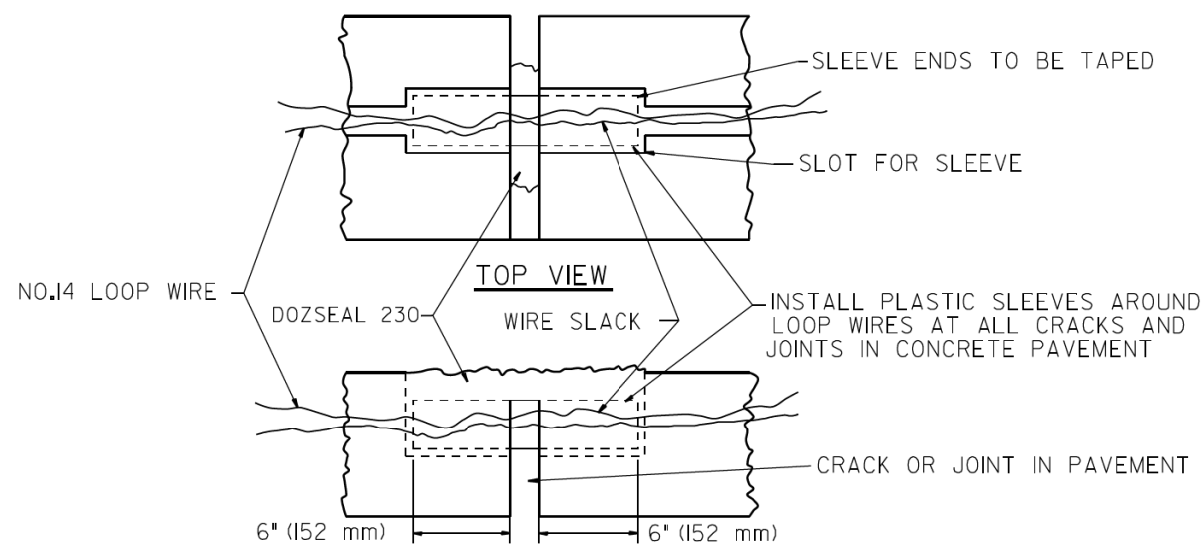
LOOP CROSS SECTION IN PAVEMENT



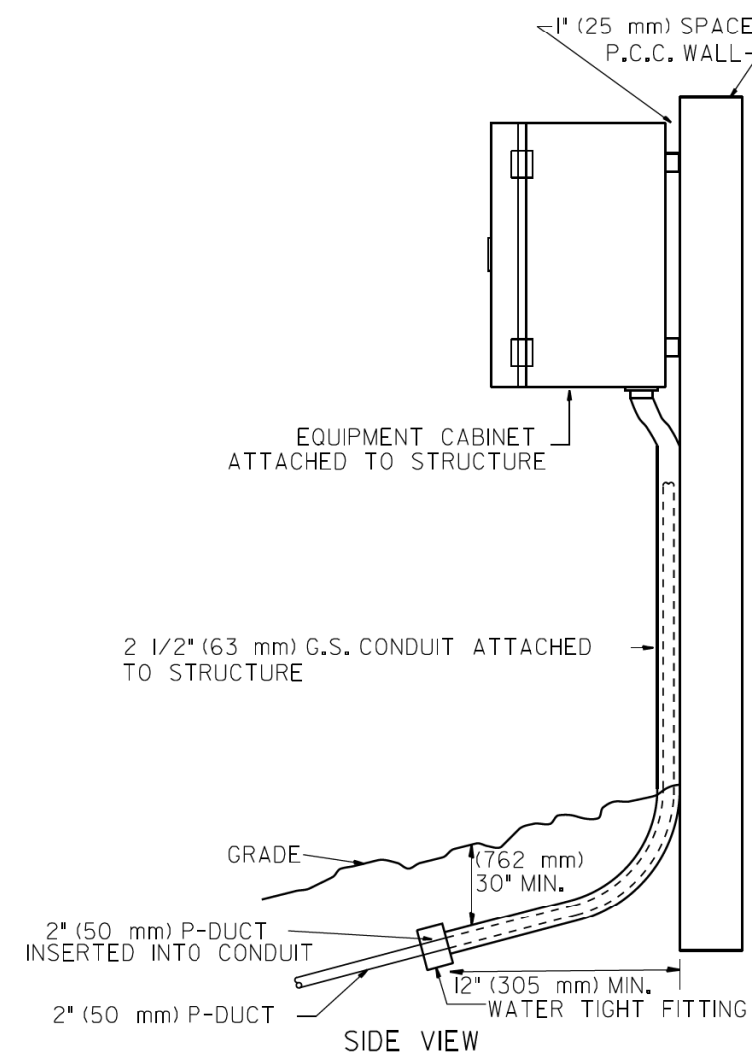
MULTIPLE LOOP SPLICING



SIDE SECTION LOOP LEAD-IN TRANSITION DETAIL

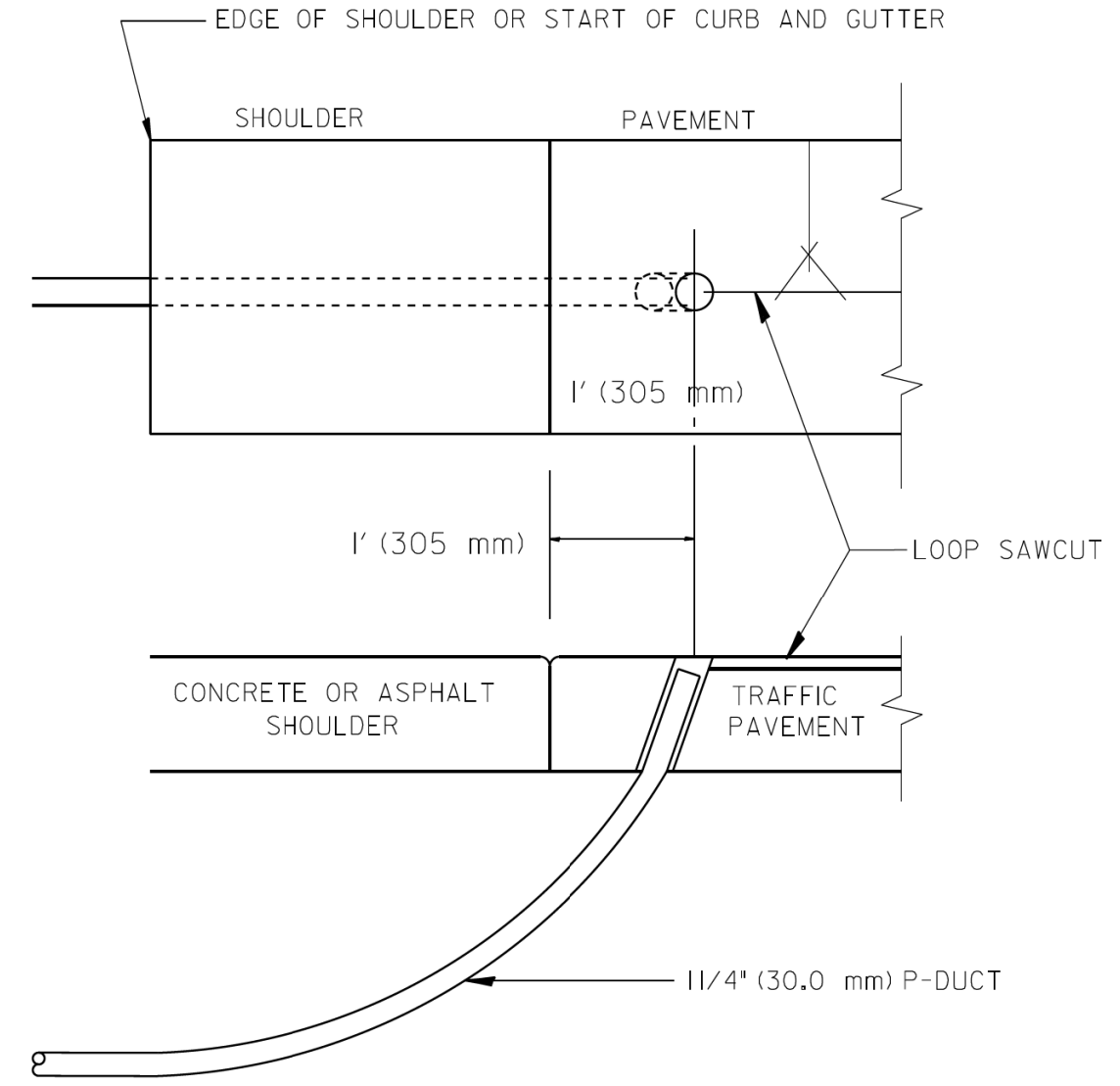
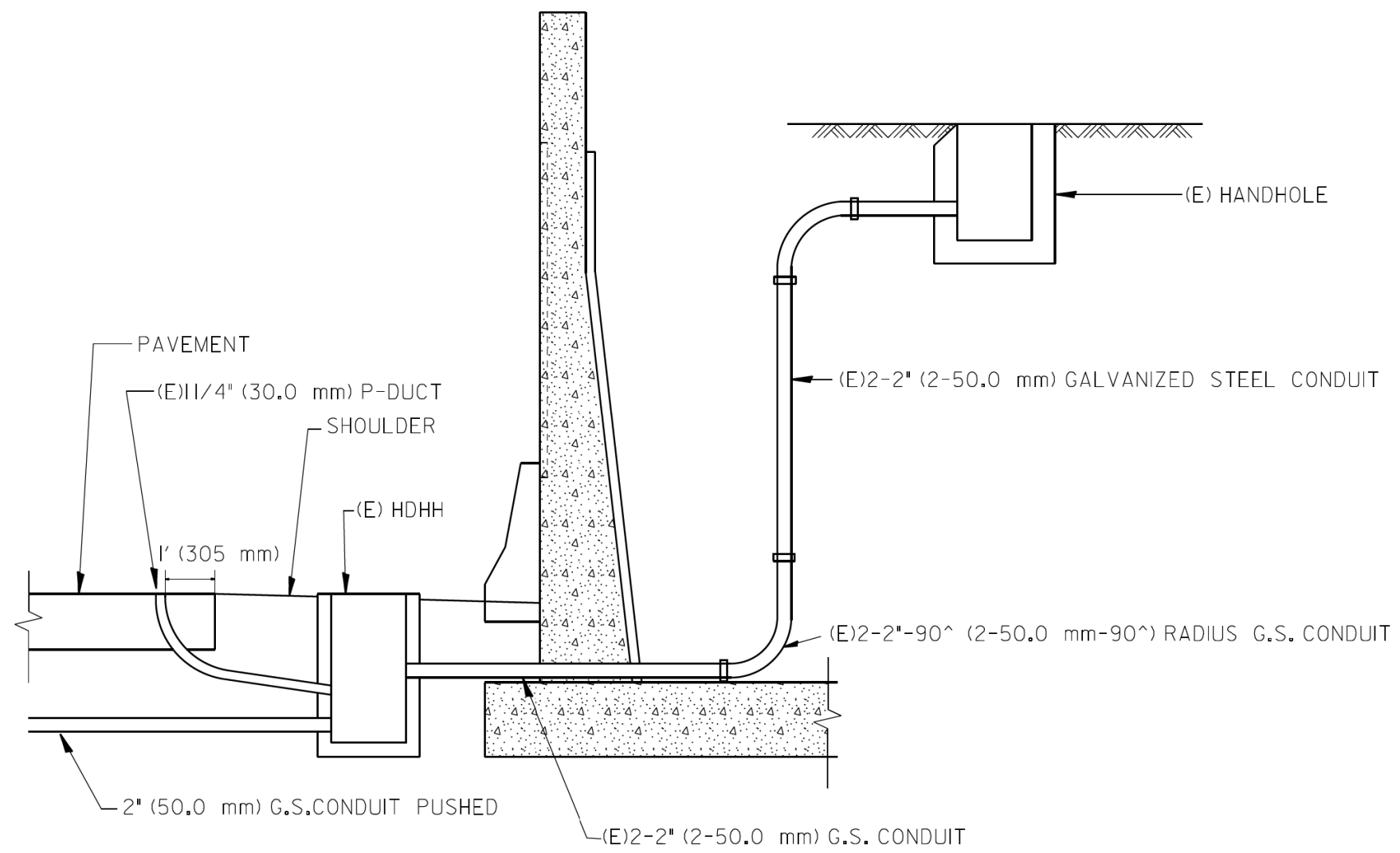


PAVEMENT CRACK TRANSVERSE SLEEVE



POLYETHYLENE DUCT/GS. CONDUIT TRANSITION

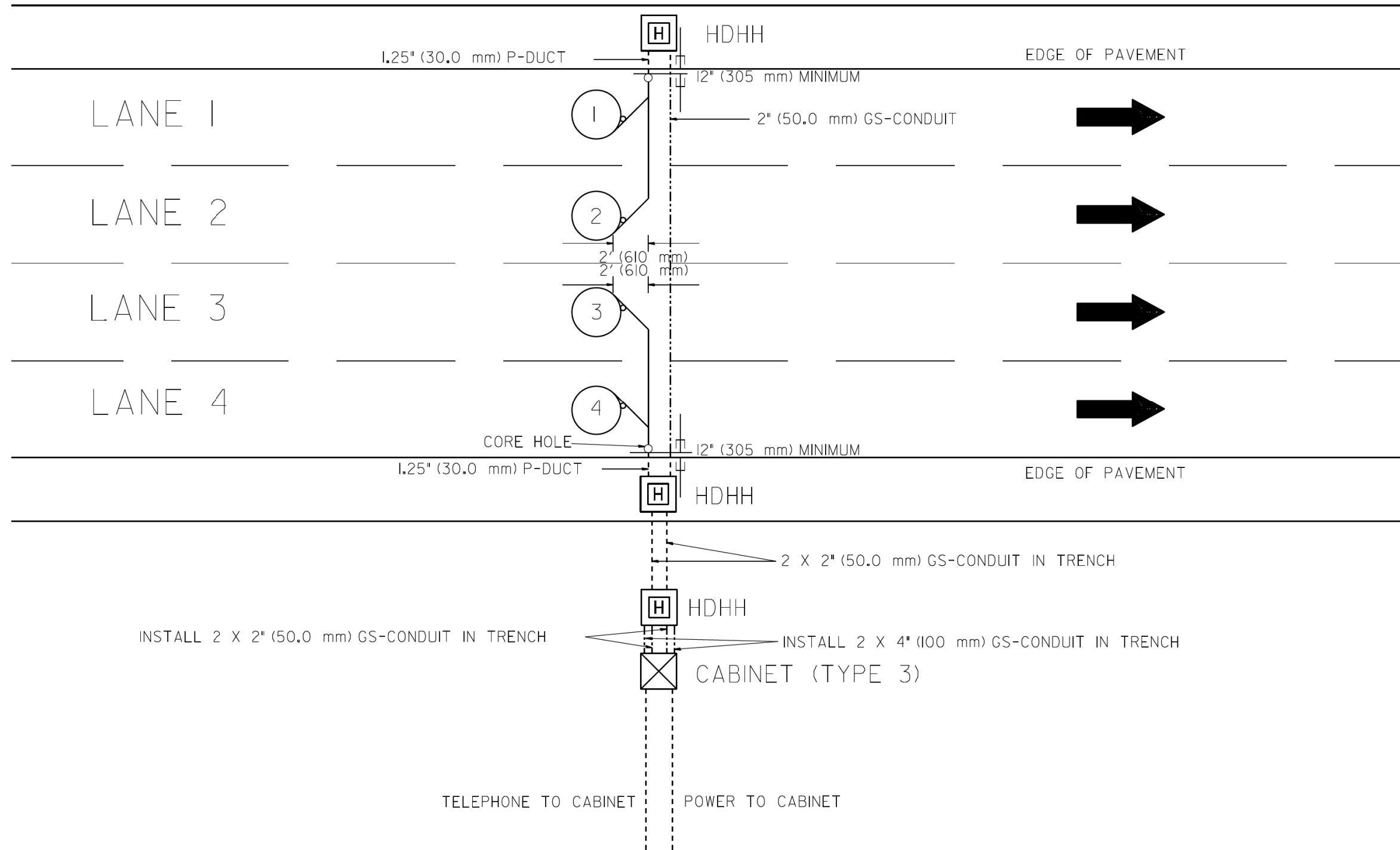
FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	LOOP, CONDUIT & DUCT INSTALLATION DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - G.M.	REVISED - 03/95		SCALE: NONE	SHEET	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	431 248
#MODELNAME#		CHECKED - R.L.	REVISED - 11/95							CONTRACT NO.		
		DATE - 06/22/94	REVISED - 10/96									



SHOULDER LOOP LEAD-IN
TRANSITION DETAIL

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 6/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TYPICAL INDUCTION LOOP LEAD-IN TRANSITION DIAGRAMS			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - G.M.	REVISED - 11/95		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO.	431	249
		CHECKED - R.L.	REVISED - 05/96		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								
		DATE - 6-22-94	REVISED - 10/96		TRAFFIC SYSTEMS CENTER (TY-ITSC-418#5)								

NOTE: ALL MAIN LINE LOOPS ARE ROUND 6' DIA. (1.83 m)



NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - R.L. 03/2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	NEW CONSTRUCTION ROUND INDUCTION LOOP TYPICAL INSTALLATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.M.	REVISED -						431	250	
#MODELNAME#		CHECKED - R.L.	REVISED -			CONTRACT NO.					
		DATE - 6-27-94	REVISED -			SCALE: NONE	SHEET	OF	SHEETS	STA.	TO

MEDIAN

LANE 1

LANE 2

LANE 3

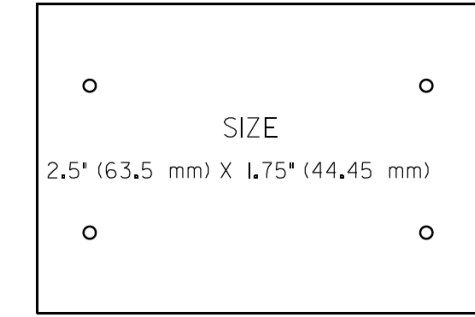
LANE 4

1

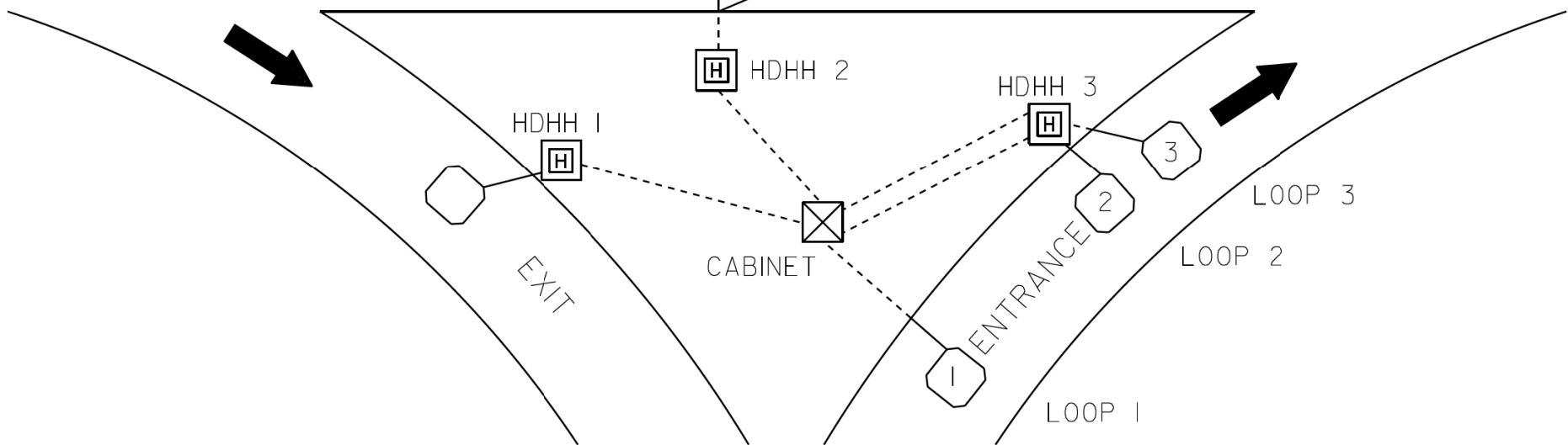
2

3

4



SUGGESTED TAG PANDUIT #MP250WI75-C OR EQUIVALENT



LOOP ANALYZER

LOCATION _____ DATE _____

LOOP LOCATION -- LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

HDHH 1 EXAMPLE

IB-EB EXIT
CCW IN/
TO CABINET # _____

HDHH 2 EXAMPLE

IB (OB) LANE # ____
CCW /OUT
TO CABINET # _____

HDHH 3 EXAMPLE

IB-EB ENT.
LOOP #2
CW IN/

NOTE:
EACH LOOP WIRE SHALL BE TAGGED AS "IN" OR "OUT" AND "CW" OR "CCW". SHIELDED CABLE WILL BE TAGGED IN EACH HANDHOLE AND CABINET TO MATCH THE CABLE LOG.

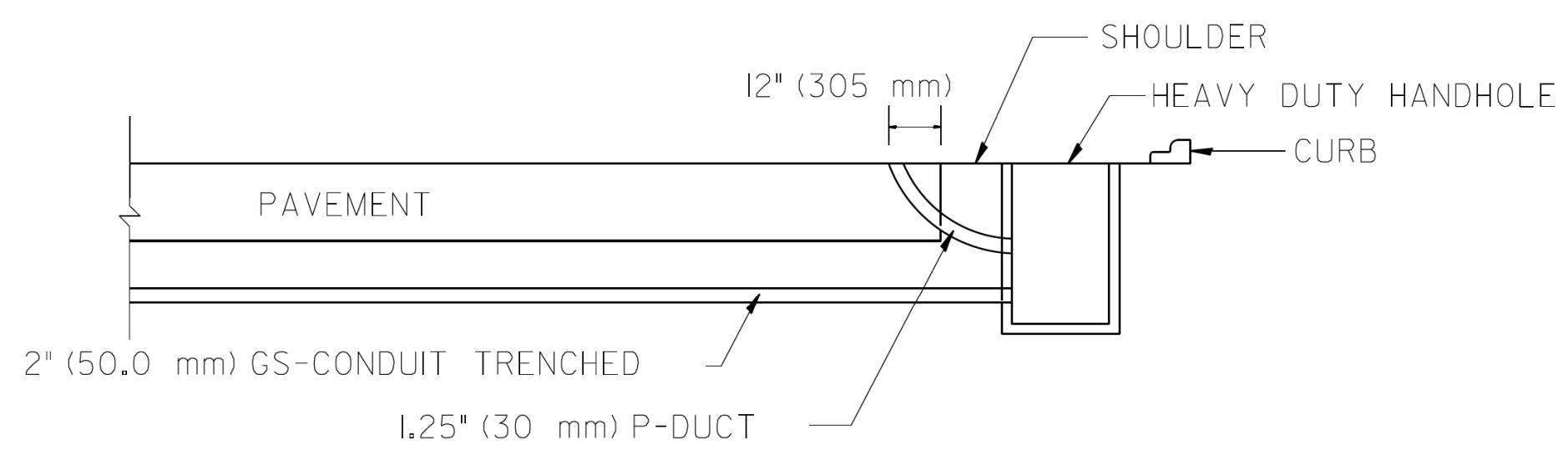
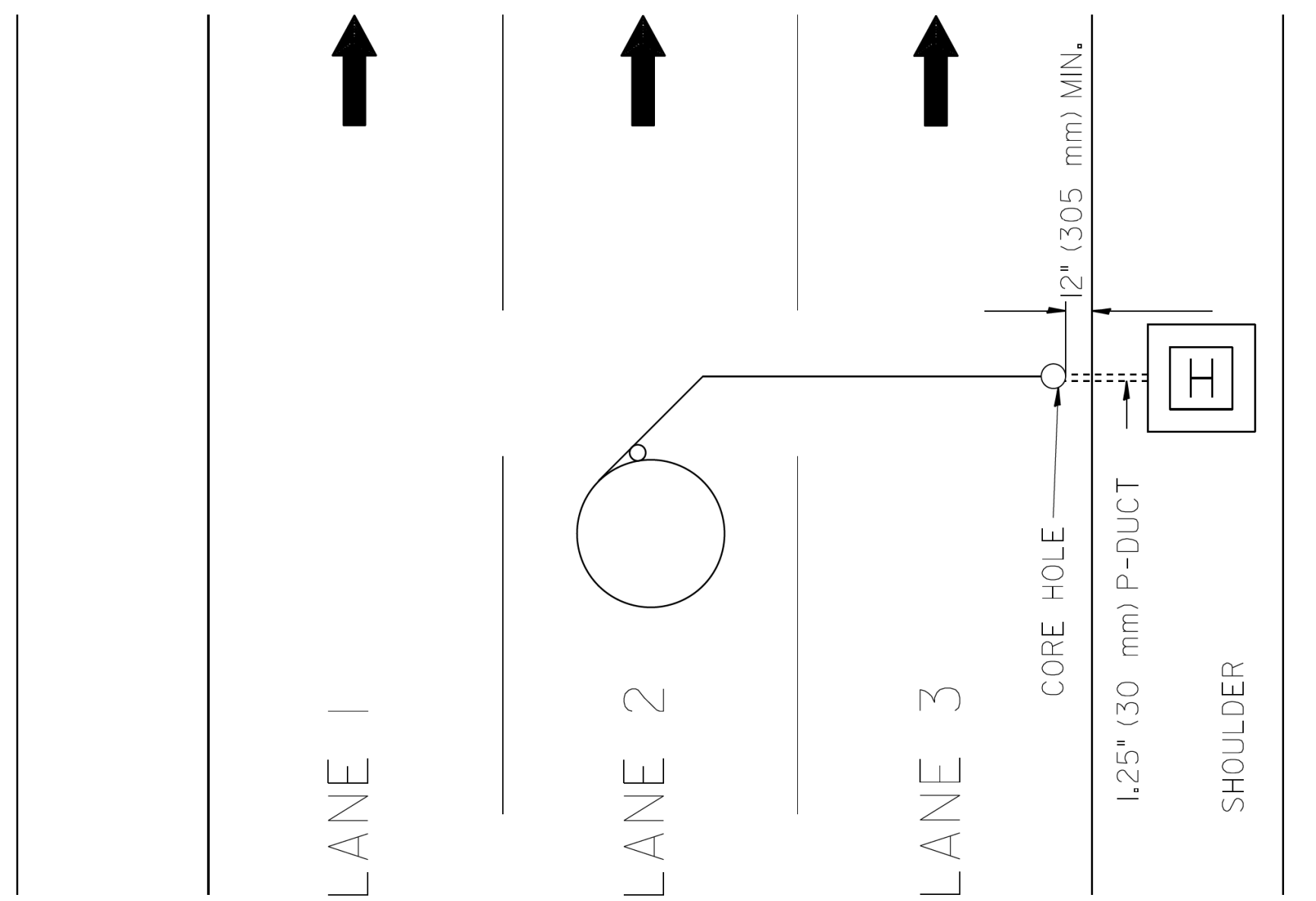
FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 6/94
#FILEL#		DRAWN - G.M.	REVISED - 10/96
#MODELNAME#		CHECKED - R.L.	REVISED -
	PLOT DATE = #DATE#	DATE - 6-27-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

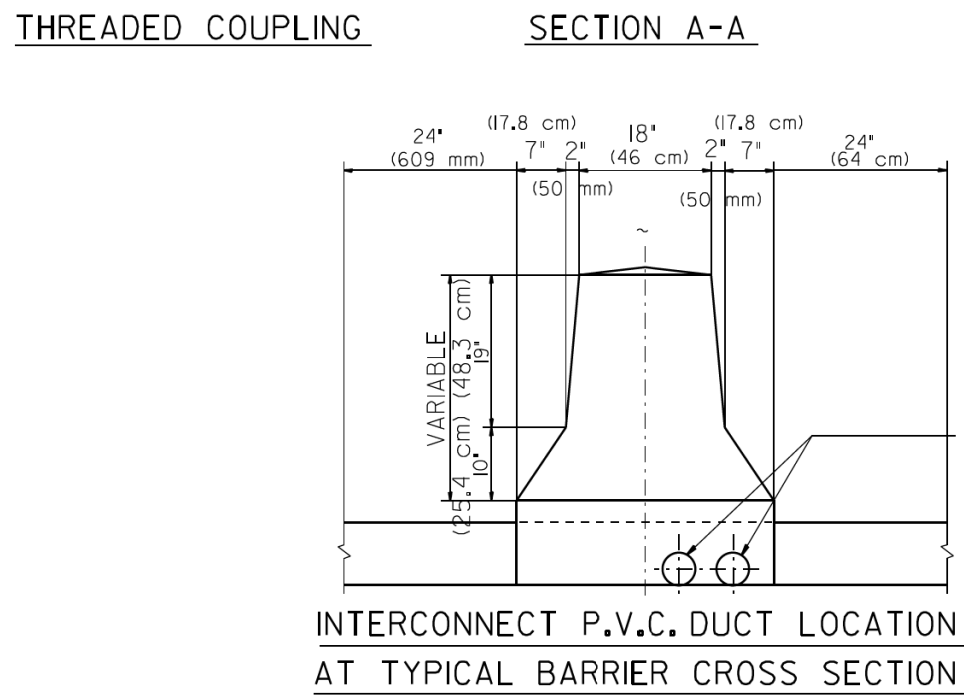
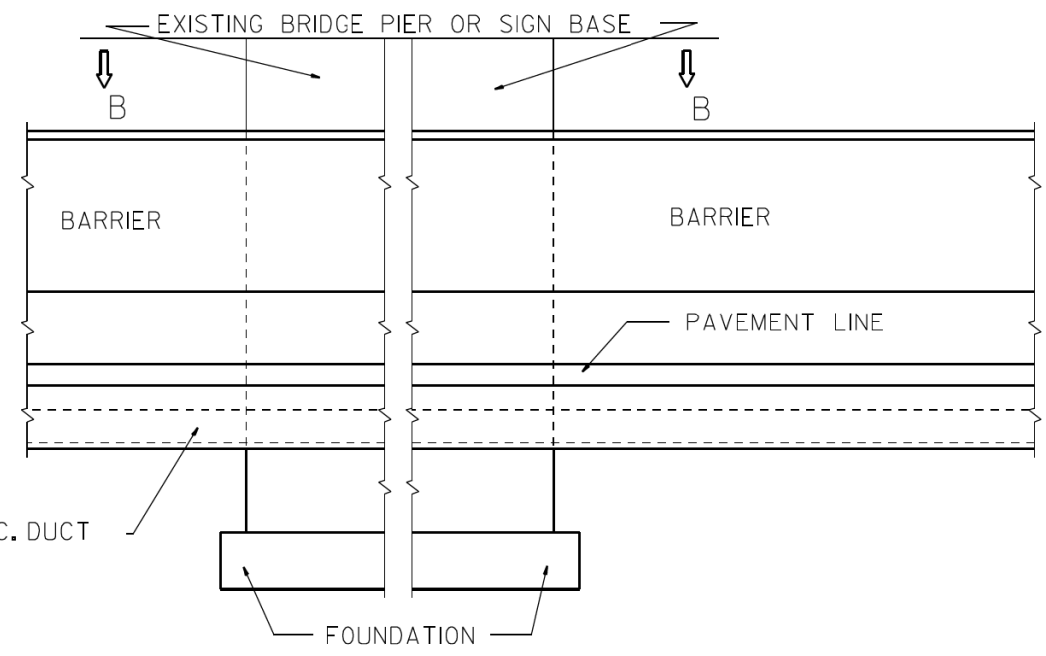
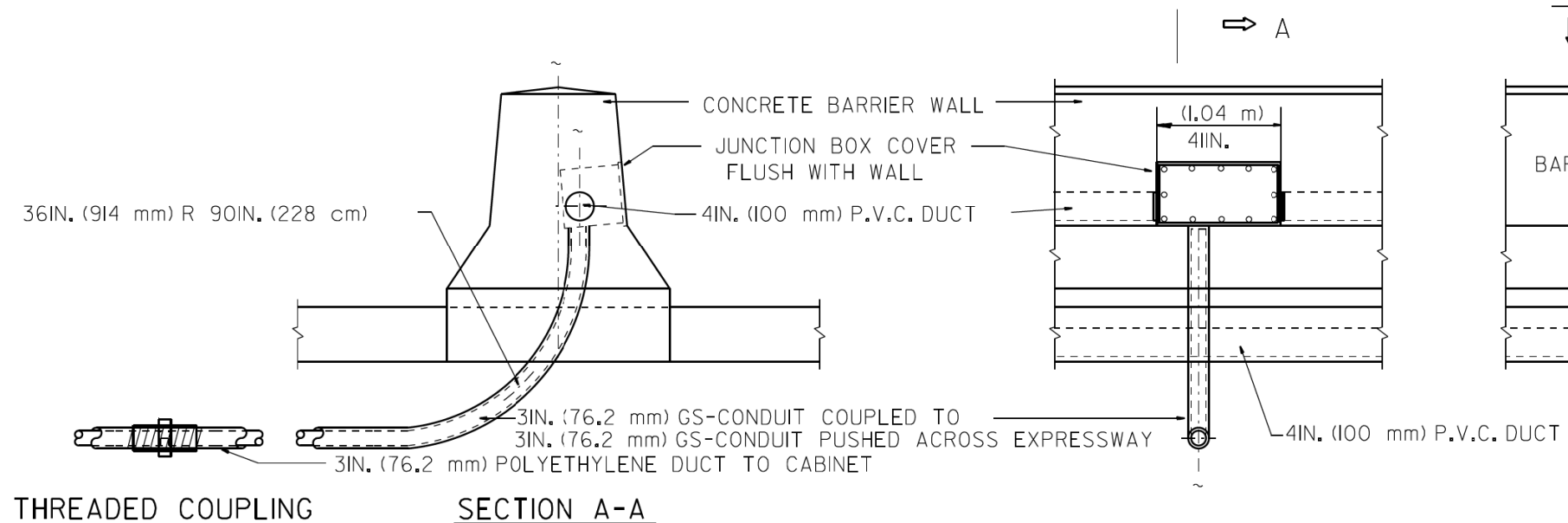
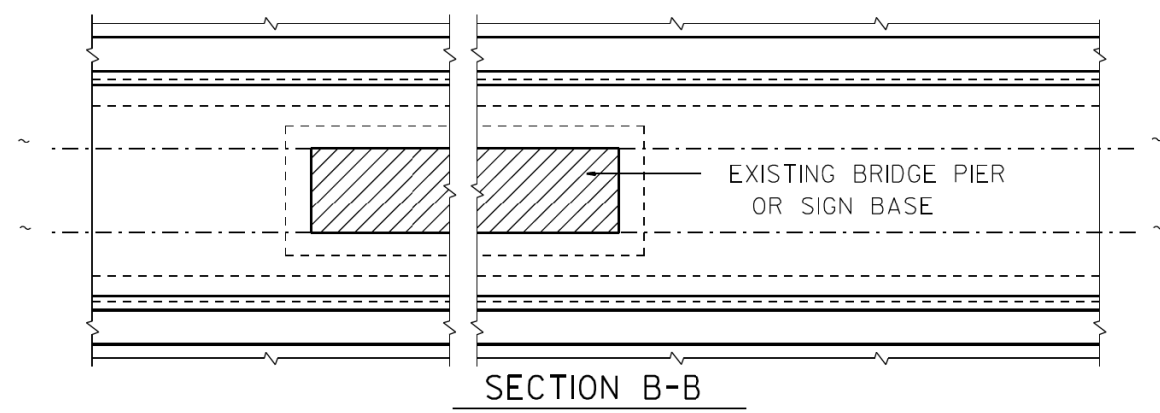
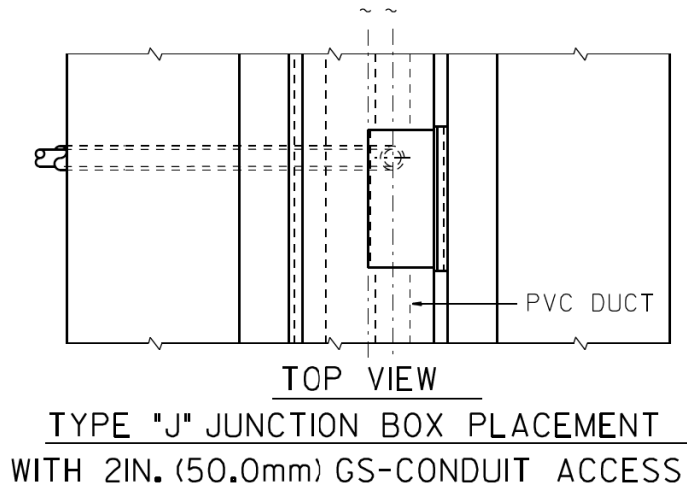
LOOP STATUS REPORT

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			431	251
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = #USER*	DESIGNED - R.L.	REVISED - R.L.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	DIVE HOLE DUCT SYSTEM		F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL*		DRAWN - G.M.	REVISED - T.C.		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO.		431	252	
#MODELNAME*		CHECKED - R.L.	REVISED -				FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			
		DATE - 11/7/95	REVISED -		TRAFFIC SYSTEMS CENTER (TY-ITSC-418#8)							

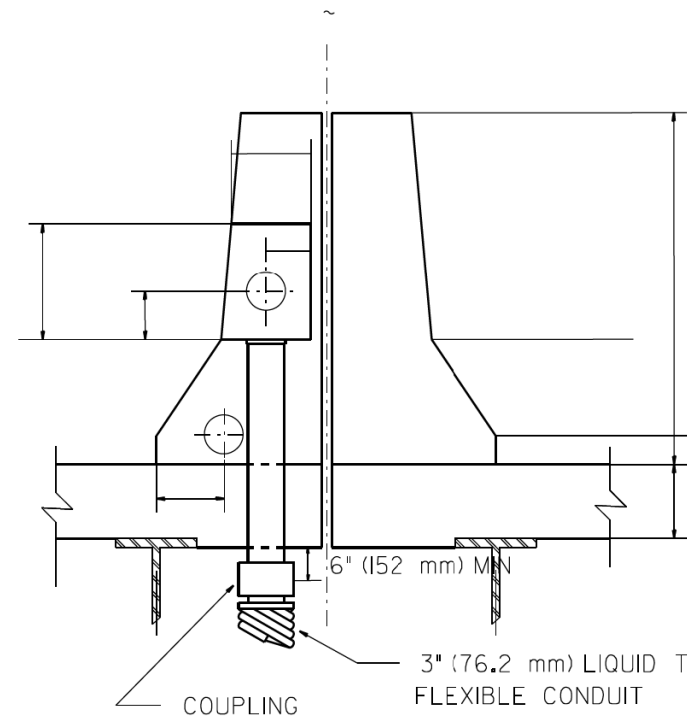


TYPE "J" JUNCTION BOX PLACEMENT
WITH 2IN. (50.0 mm) GS-CONDUIT ACCESS

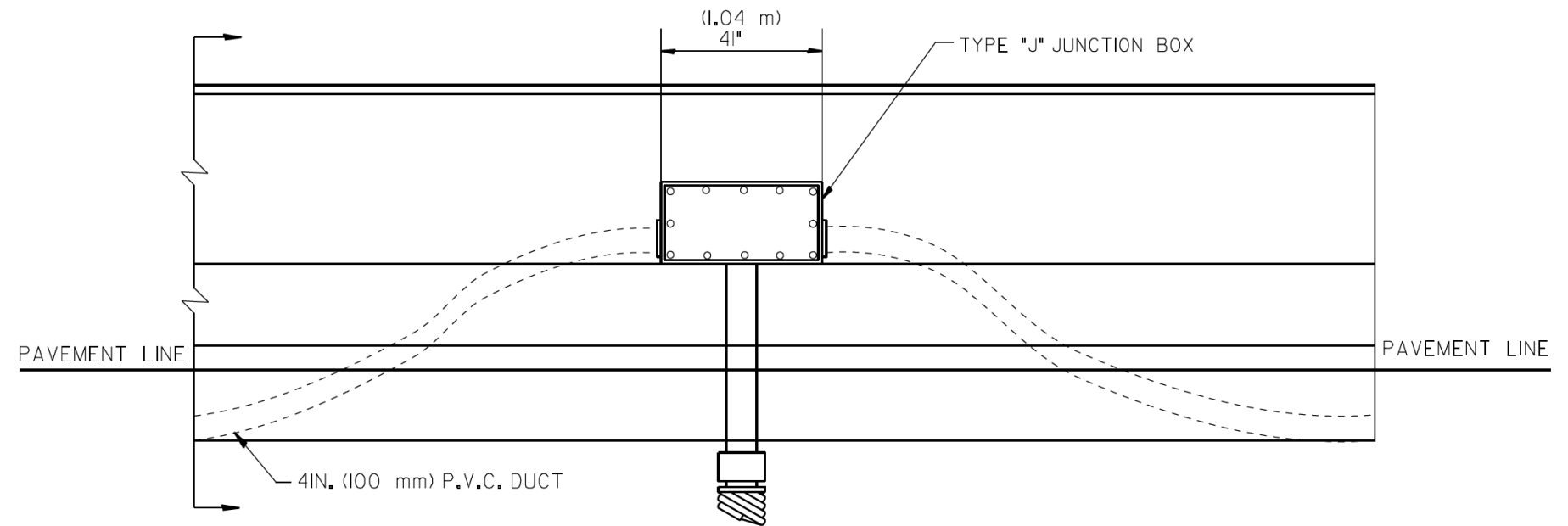
FRONT VIEW
BARRIER WALL AT BRIDGE PIER
P.V.C. DUCT PLACEMENT

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15FT. (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J" AND FOR A SMOOTH TRANSITION OF 4IN. (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

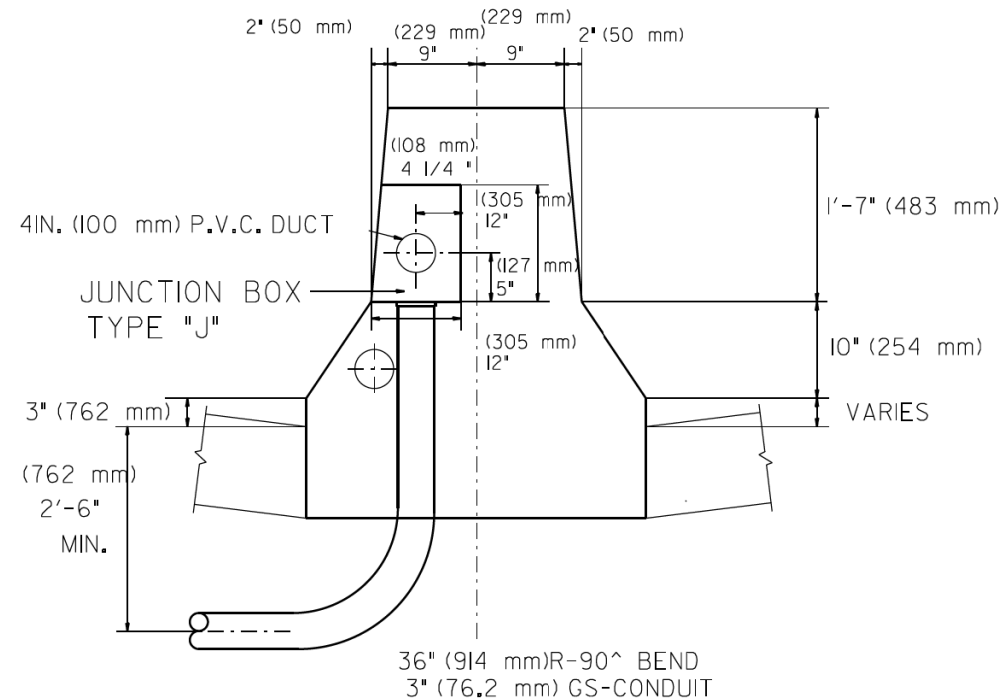
FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TYPE "J" JUNCTION BOX & P.V.C. DUCT PLACEMENT		F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.M.	REVISED - 10/96		SCALE: NONE	SHEET	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
#MODELNAME#		CHECKED - R.L.	REVISED -									
		DATE - 06/22/94	REVISED -									



DOUBLE SINGLE FACED BARRIER WALL
ON BRIDGE DECK



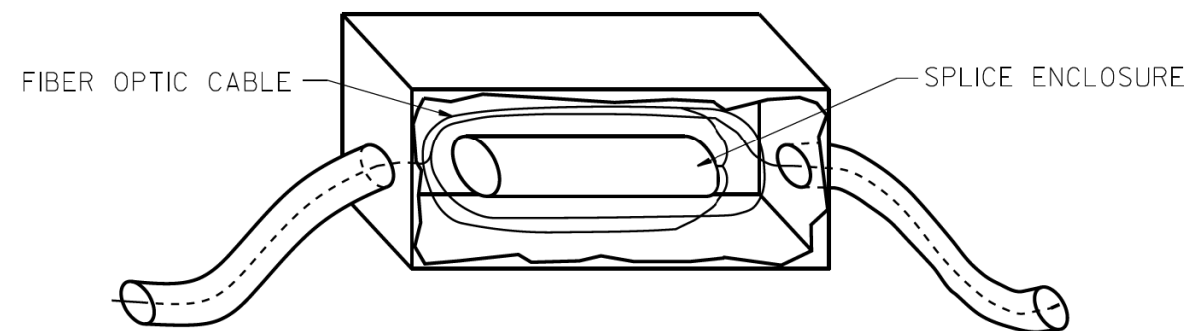
ELEVATION
BARRIER WALL DUCT DETAIL
ON BRIDGE DECK



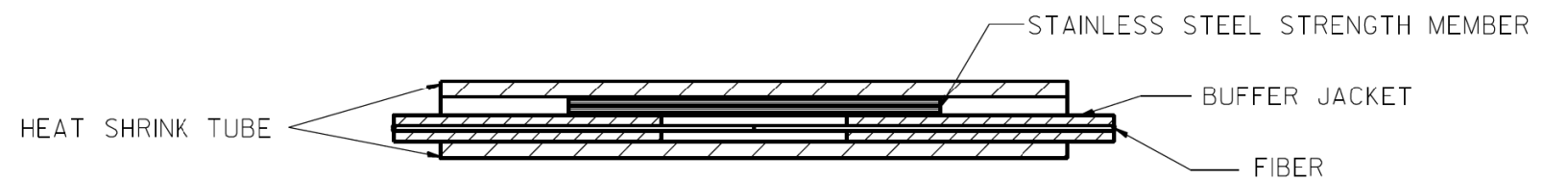
DOUBLE FACED BARRIER WALL

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15FT. (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J"
AND FOR A SMOOTH TRANSITION OF 4IN. (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TRAFFIC SURVEILLANCE BARRIER WALL DUCT DETAIL ON BRIDGE DECK			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.N.	REVISED - 10/96		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
#MODELNAME#		CHECKED - R.L.	REVISED - 02/98										
		DATE - 06/22/94	REVISED -										

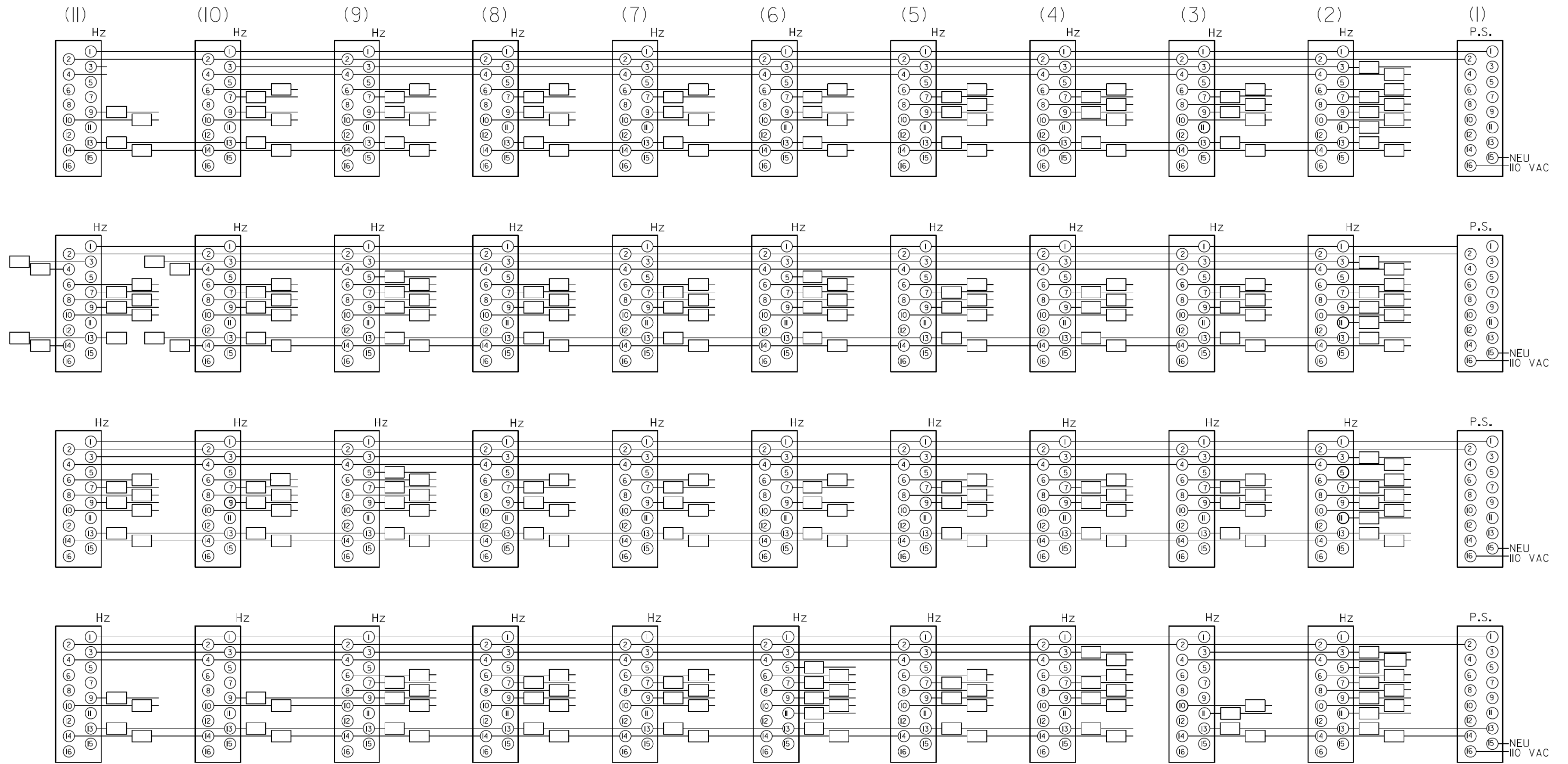


JUNCTION BOX DETAIL



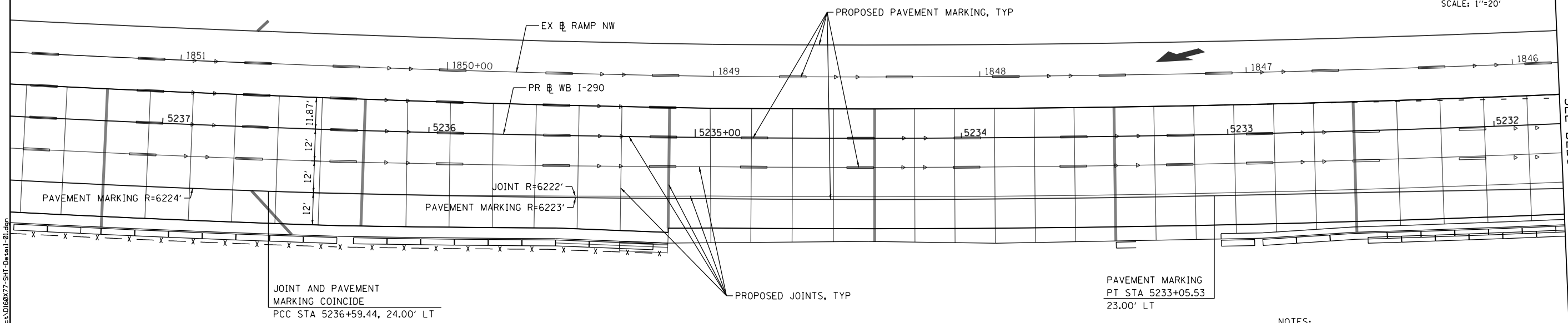
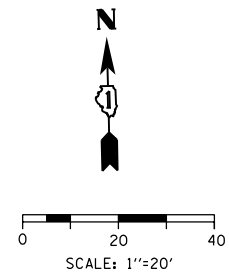
FIBER SPLICE DETAIL

FILE NAME =	USER NAME = #USER#	DESIGNED - D.S.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	FIBER OPTIC WIRING DETAIL			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - G.M.	REVISED -								431	255
#MODELNAME#		CHECKED - D.S.	REVISED -		CONTRACT NO.							
	PLOT DATE = #DATE#	DATE - 04/26/93	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	FED. ROAD DIST. NO.

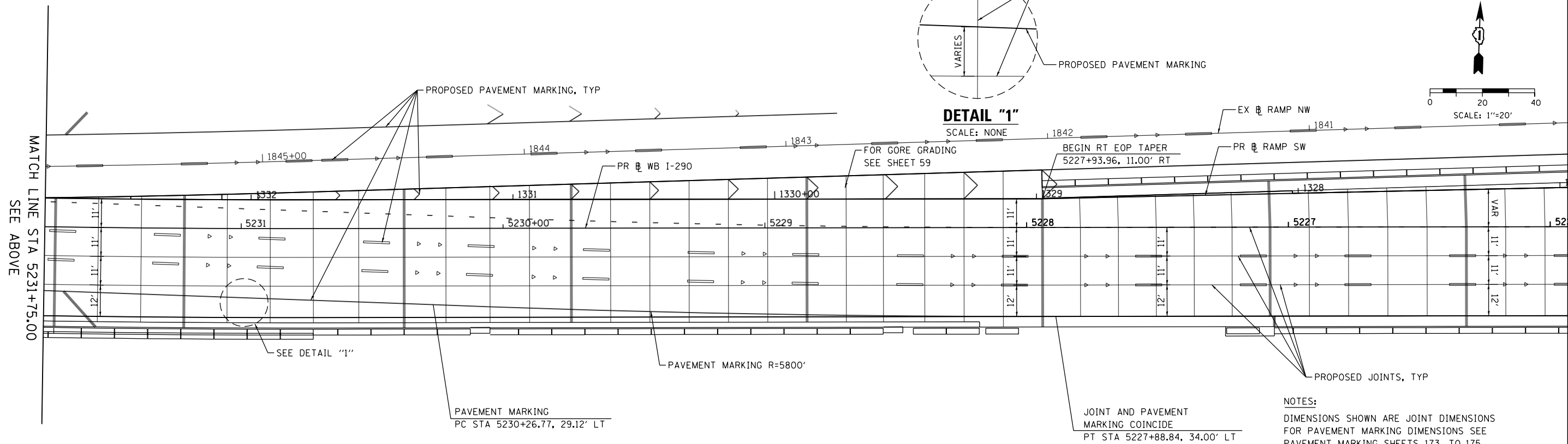
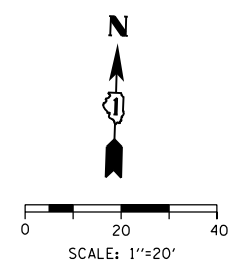
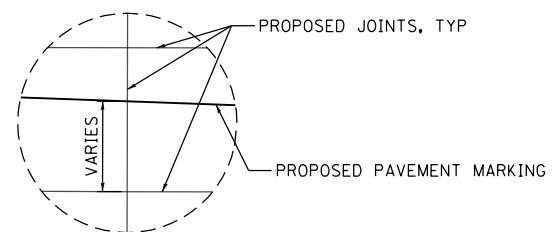


FILE NAME =	USER NAME = #USER#	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TONE ENCLOSURE (BUILDING)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET	OF SHEETS	STA.	TO STA.	CONTRACT NO.	431	256
#MODELNAME#		CHECKED - R.L.	REVISED -									
		DATE - 06/22/94	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-ITSC-663#14)



NOTES:
 DIMENSIONS SHOWN ARE JOINT DIMENSIONS
 FOR PAVEMENT MARKING DIMENSIONS SEE
 PAVEMENT MARKING SHEETS 173 TO 175



NOTES:
 DIMENSIONS SHOWN ARE JOINT DIMENSIONS
 FOR PAVEMENT MARKING DIMENSIONS SEE
 PAVEMENT MARKING SHEETS 173 TO 175

FILE PATH = p:\61779-PMINT\pccommon\line\local\AECOM_D902_MIA\Documents\01_Americas\T\engor\station\60269938_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-SHT-Details-01.dgn



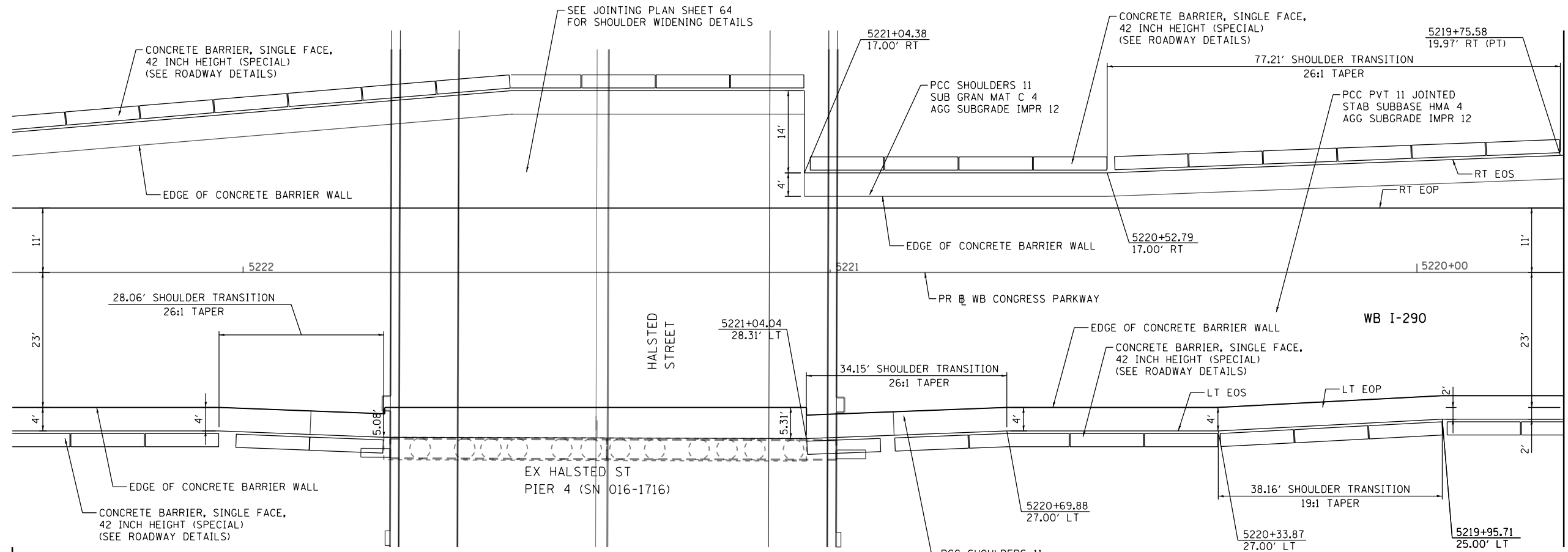
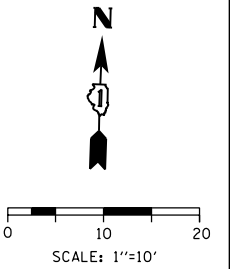
D160X77-SHT-Details-01.dgn	DESIGNED - OPS	REVISED -
USER NAME = PIMSARNO	DRAWN - ZND	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 4/28/2016	DATE - 4/27/2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

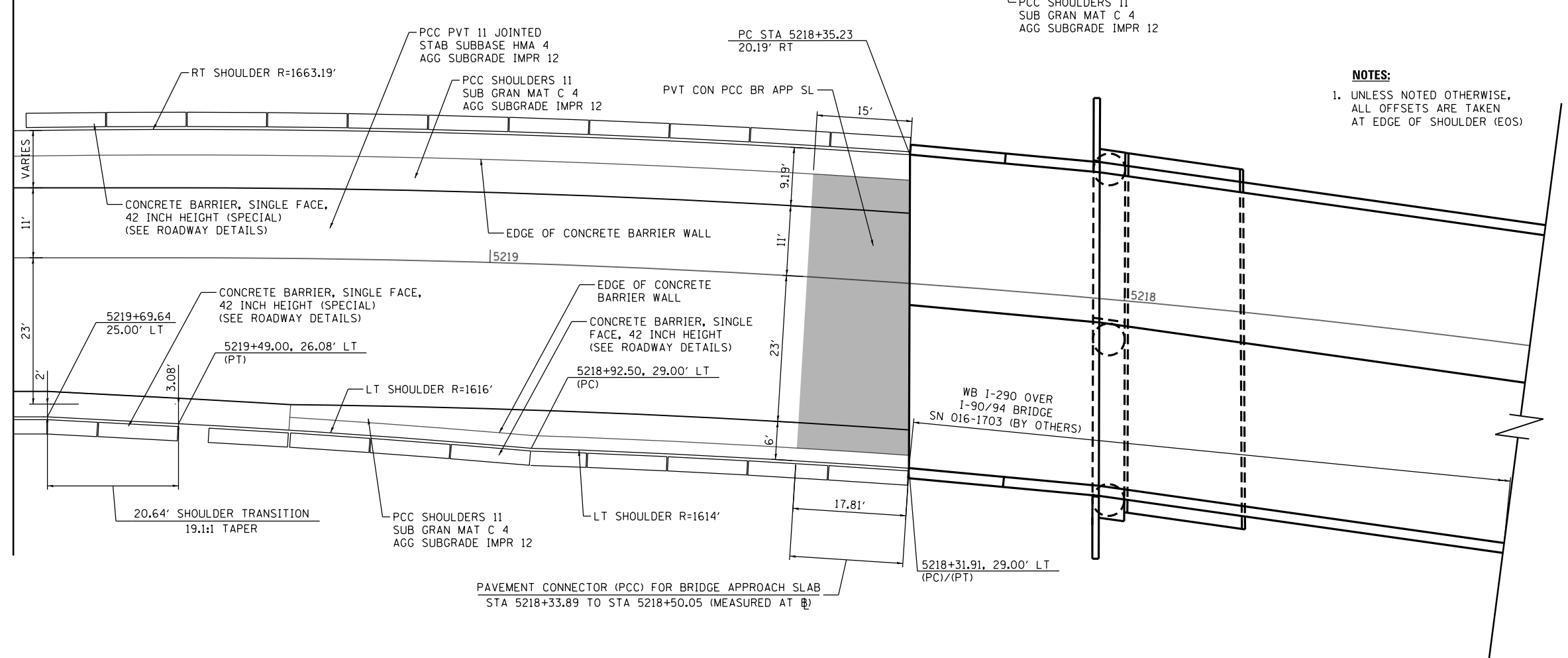
**ROADWAY DETAILS: JOINTING AT LOCATION WHERE JOINT AND
 PAVEMENT MARKING DO NOT COINCIDE**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	257
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 5219+75
(PR WB CONGRESS PARKWAY)
SEE BELOW



NOTES:
1. UNLESS NOTED OTHERWISE,
ALL OFFSETS ARE TAKEN
AT EDGE OF SHOULDER (EOS)

MATCH LINE STA 5219+75
(PR WB CONGRESS PARKWAY)
SEE ABOVE

FILE PATH = p:\617479-PMINT\pccompl\loc\l\AECOM_D502_NA\Documents\01_Americas\T\engor\station\60269938_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-SHT-Detail-02.dgn



D160X77-SHT-Detail-02.dgn	DESIGNED - OPS	REVISED -
USER NAME = dshevoz	DRAWN - ZND	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 4/28/2016	DATE - 4/27/2016	REVISED -

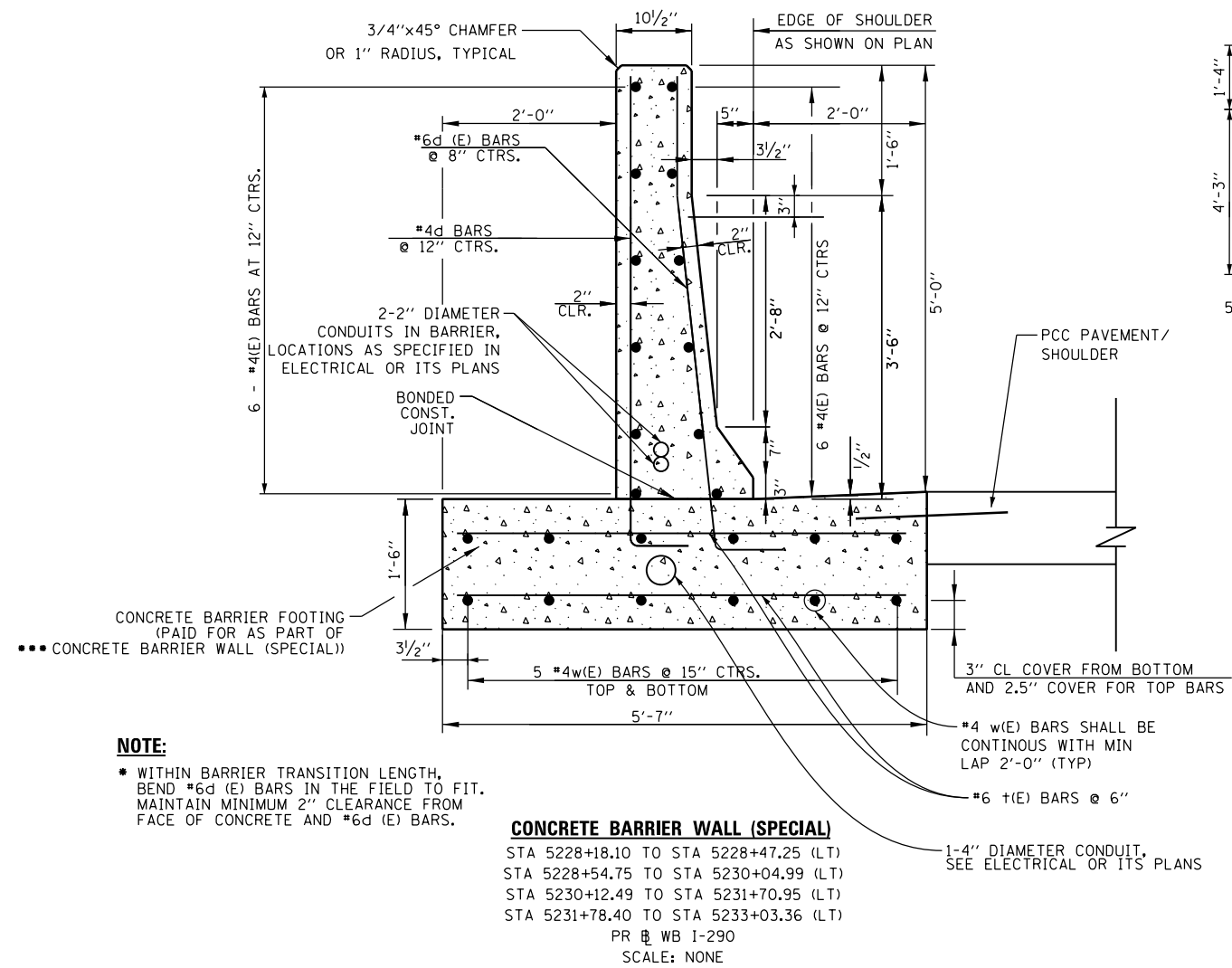
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS: VARIABLE SHOULDER WIDTHS

SCALE: 1"=10' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	258
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\617479-PMINT\pccom\line\local\AECOM\DS02_MIA\Documents\01\Americas\T\engor\station\60269438 Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-SHT-Detail-03A.dgn

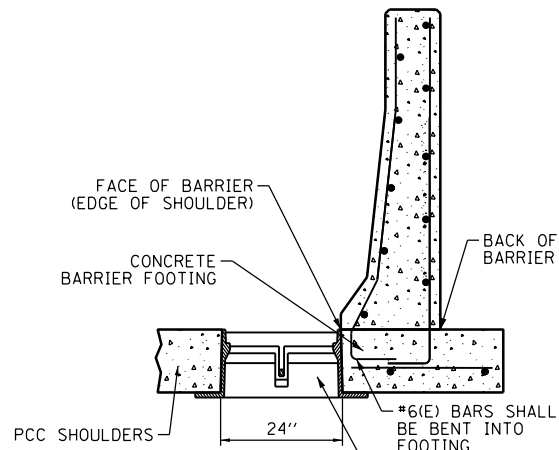


NOTE:

• WITHIN BARRIER TRANSITION LENGTH, BEND #6d (E) BARS IN THE FIELD TO FIT. MAINTAIN MINIMUM 2" CLEARANCE FROM FACE OF CONCRETE AND #6d (E) BARS.

CONCRETE BARRIER WALL (SPECIAL)

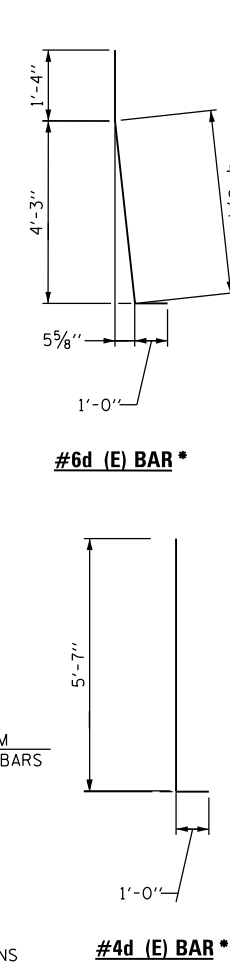
STA 5228+18.10 TO STA 5228+47.25 (LT)
 STA 5228+54.75 TO STA 5230+04.99 (LT)
 STA 5230+12.49 TO STA 5231+70.95 (LT)
 STA 5231+78.40 TO STA 5233+03.36 (LT)
 PR WB I-290
 SCALE: NONE



**SECTION A-A
 CONCRETE BARRIER WALL (SPECIAL)
 AT DRAINAGE STRUCTURE**

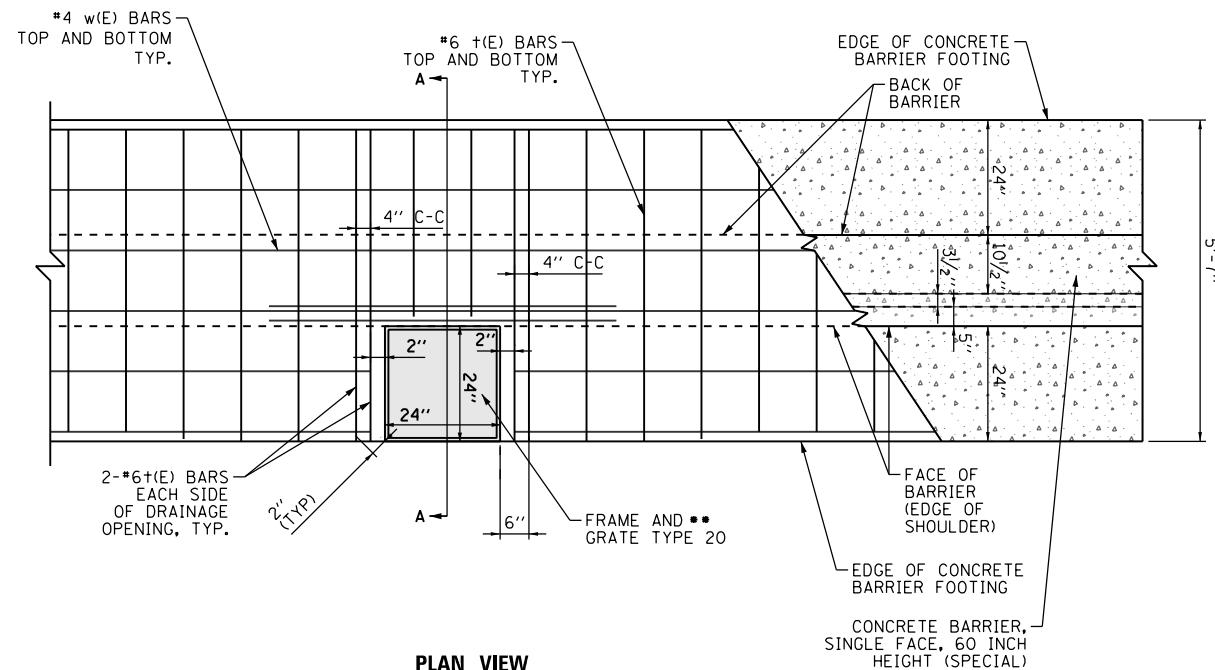
SCALE: NONE

• 2" MINIMUM CLEARANCE BETWEEN REINFORCEMENT AND EDGE OF CONCRETE.



#6d (E) BAR *

#4d (E) BAR *



**PLAN VIEW
 TYPICAL DETAIL FOR CONCRETE BARRIER FOOTING
 TRANSITION AROUND DRAINAGE STRUCTURE**

SCALE: NONE

- SEE PLANS FOR DRAINAGE STRUCTURE DETAILS AND LOCATIONS.
- THE COST OF REINFORCEMENT AND FOOTING TRANSITION SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER, WALL (SPECIAL).

CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)

SEE SHEET 209A FOR DETAILS

STA 5219+31.42 TO STA 5220+89.02 (LT) PR WB CONGRESS PARKWAY
 STA 5218+35.23 TO STA 5221+04.38 (RT) PR WB CONGRESS PARKWAY
 STA 5221+04.38 TO STA 5223+09.58 (RT) PR WB CONGRESS PARKWAY
 STA 5221+88.65 TO STA 5227+05.41 (LT) PR WB CONGRESS PARKWAY/PR WB I-290
 STA 5224+07.20 TO STA 5227+94.09 (LT) PR WB CONGRESS PARKWAY/PR WB I-290
 STA 5235+27.77 TO STA 5237+21.28 (LT) PR WB I-290
 STA 5237+28.73 TO STA 5238+96.26 (LT) PR WB I-290
 STA 5239+03.70 TO STA 5240+53.81 (LT) PR WB I-290
 STA 5240+61.25 TO STA 5242+12.13 (LT) PR WB I-290
 STA 5242+19.63 TO STA 5243+69.67 (LT) PR WB I-290
 STA 5243+77.16 TO STA 5245+27.17 (LT) PR WB I-290
 STA 5245+34.66 TO STA 5247+00.21 (LT) PR WB I-290
 STA 1321+00.00 TO STA 1324+18.06 (LT) PR RAMP SW
 STA 1321+52.90 TO STA 1325+10.63 (RT) PR RAMP SW

NOTES:

1. EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER AND SHALL MEET AASHTO DESIGNATION M-33.
2. ALL WORK AND MATERIALS DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
3. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
4. EXPANSION JOINTS SHALL BE CONSTRUCTED IN BARRIER WALL AT MAXIMUM JOINT SPACING OF 90 FEET.
5. TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
6. 1" DEEP CONTRACTION JOINT SHALL BE CONSTRUCTED IN BOTH THE REINFORCED CONCRETE BARRIER WALL AND BASE.
7. THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SWAING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
8. REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
9. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
10. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.



D160X77-SHT-Detail-03A.dgn
 USER NAME = PIMSARNO
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 4/29/2016

DESIGNED - OPS
 DRAWN - OPS
 CHECKED - DBM
 DATE - 4/27/2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

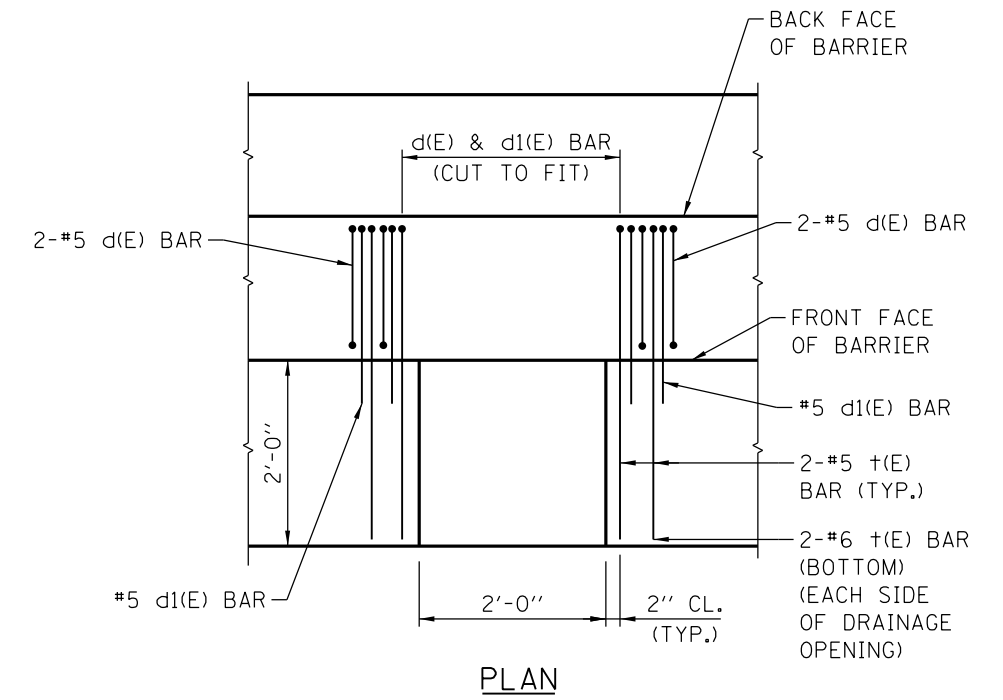
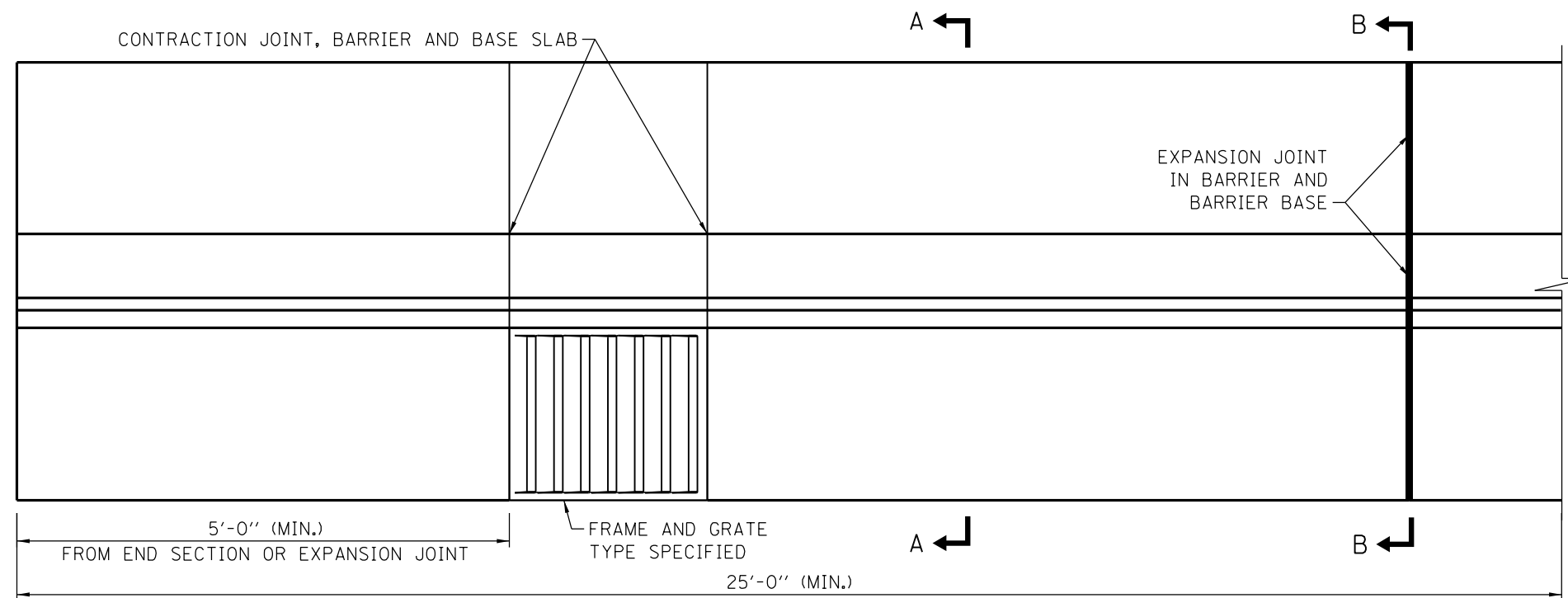
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS: CONCRETE BARRIER WALL (SPECIAL)

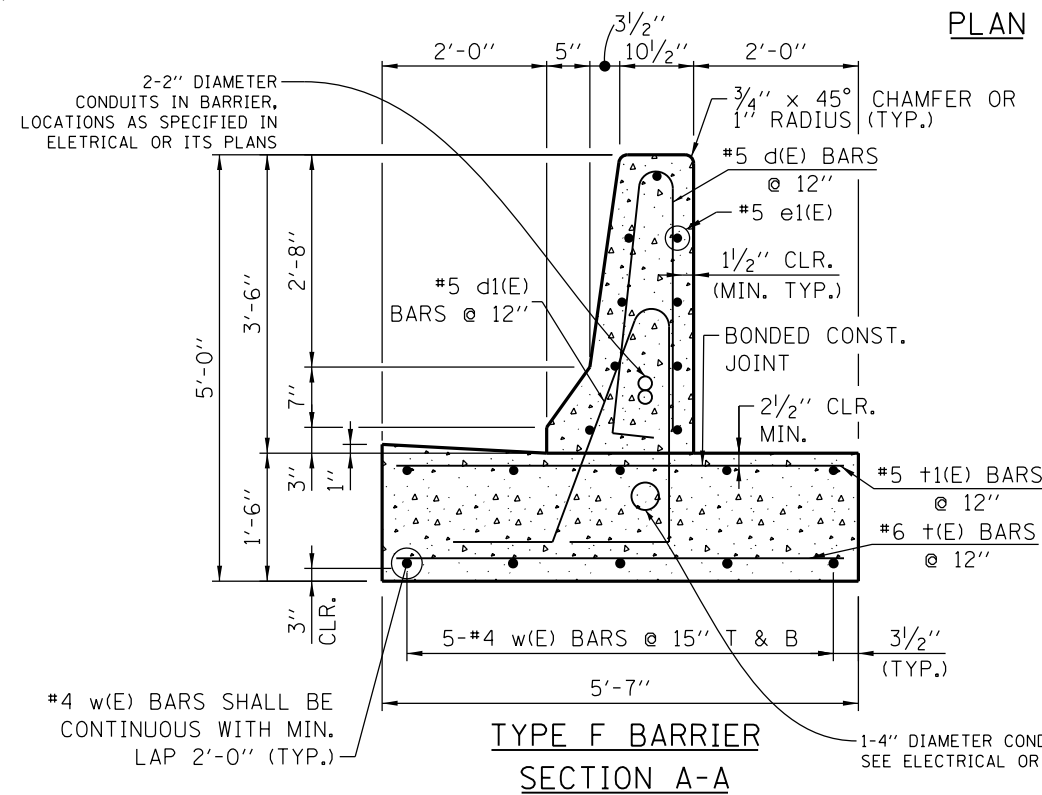
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	259
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\61779-PM\INT.dwg\60X77-Detail-03B.dgn
 I:\Projects\60X77-PM\INT.dwg\60X77-Detail-03B.dgn
 America's Transport Solutions 60259338 Circle Phase 11 000 CADD 006 Roadway Sheets 60X77 Contract 0160X77-SHT-Detail-03B.dgn



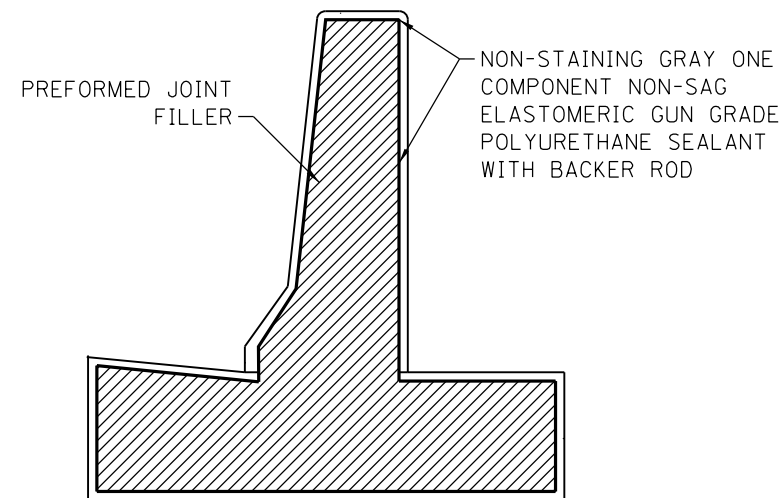
PLAN
REINFORCEMENT AROUND
DRAINAGE STRUCTURE



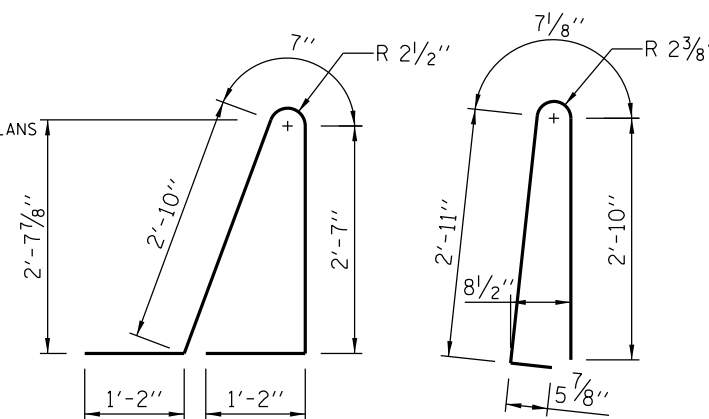
TYPE F BARRIER
SECTION A-A

CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT

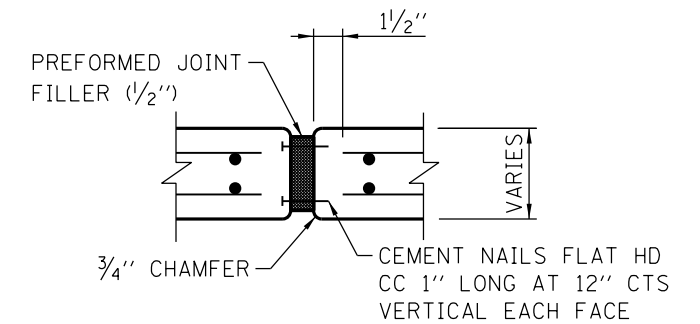
STA 5218+31.91 TO STA 5219+31.42 (LT) PR WB CONGRESS PARKWAY
 STA 5247+07.85 TO STA 5247+47.55 (LT) PR WB I-290



TYPE F BARRIER
SECTION B-B



BAR d1(E) BAR d(E)
BENDING DIAGRAMS



EXPANSION JOINT

NOTES:

- TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
- 1" DEEP CONTRACTION JOINTS SHALL BE CONSTRUCTED IN BOTH THE REINFORCED CONCRETE BARRIER WALL AND BASE. CONTRACTION JOINTS SHALL ALSO BE CONSTRUCTED AT BOTH SIDES OF ALL DRAINAGE STRUCTURES. MAXIMUM CONTRACTION JOINT SPACING SHALL BE 30 FEET.
- THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SAWING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
- REINFORCEMENT BARS DESIGNATED "E" SHALL BE EPOXY COATED.
- REINFORCEMENT BARS BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
- REINFORCEMENT BARS BENDING DIMENSIONS ARE OUT TO OUT.
- AT DRAINAGE STRUCTURES, CUT FOOTING BARS TO FIT. ADD AN ADDITIONAL SET OF d, d1, +, AND #1 BARS ON EACH SIDE OF THE DRAINAGE STRUCTURE.
- EXPANSION JOINTS SHALL BE CONSTRUCTED IN BARRIER WALL AT MAXIMUM JOINT SPACING OF 90 FEET. SEE SECTION B-B FOR DETAILS.
- MINIMUM LENGTH OF INSTALLATION SHALL BE 25 FEET.
- MINIMUM EXPANSION JOINT SPACING SHALL BE 25'-0"



D160X77-SHT-Detail-03B.dgn
 USER NAME = dshevoz
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 4/28/2016

DESIGNED - OPS
 DRAWN - OPS
 CHECKED - DBM
 DATE - 4/27/2016

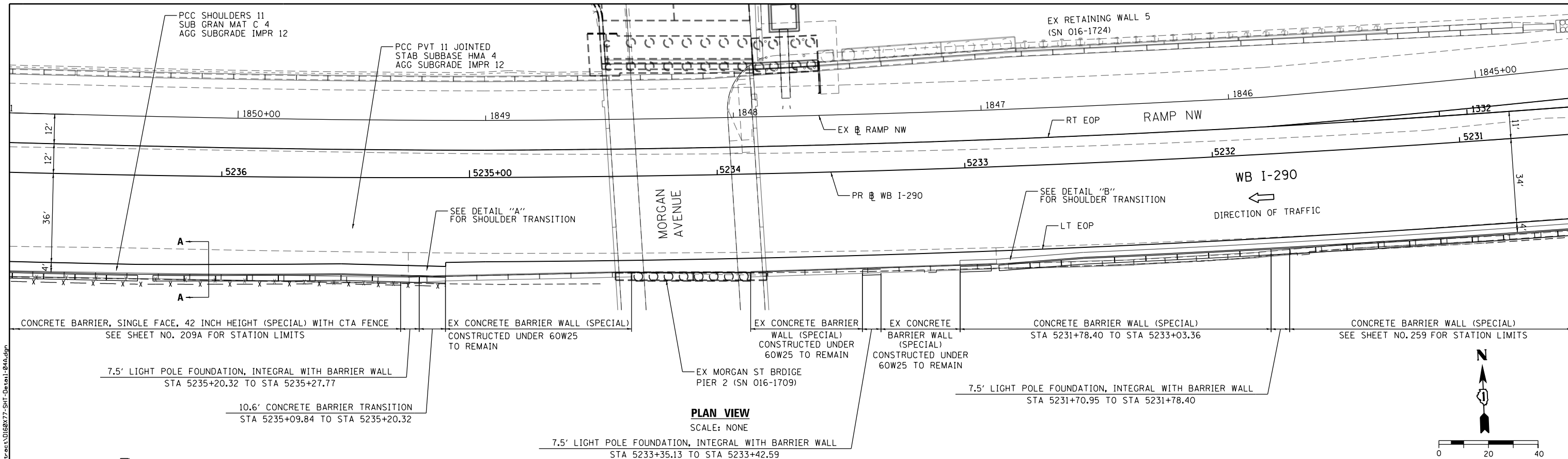
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS: CONCRETE BARRIERS,
 SINGLE FACE, 42 INCH HEIGHT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

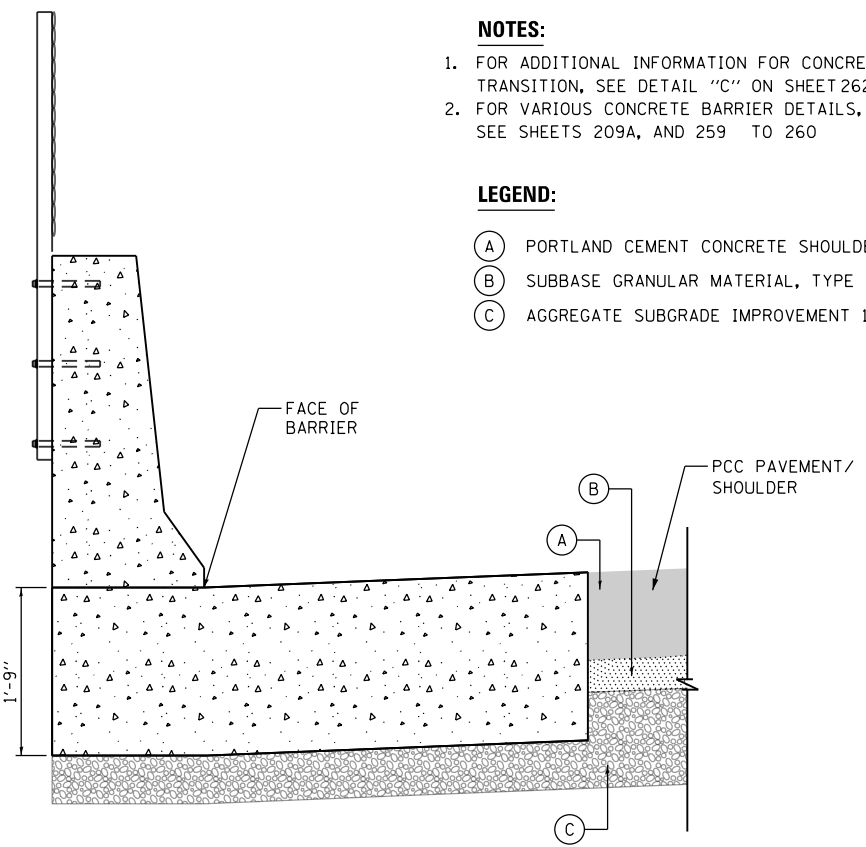
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	260
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



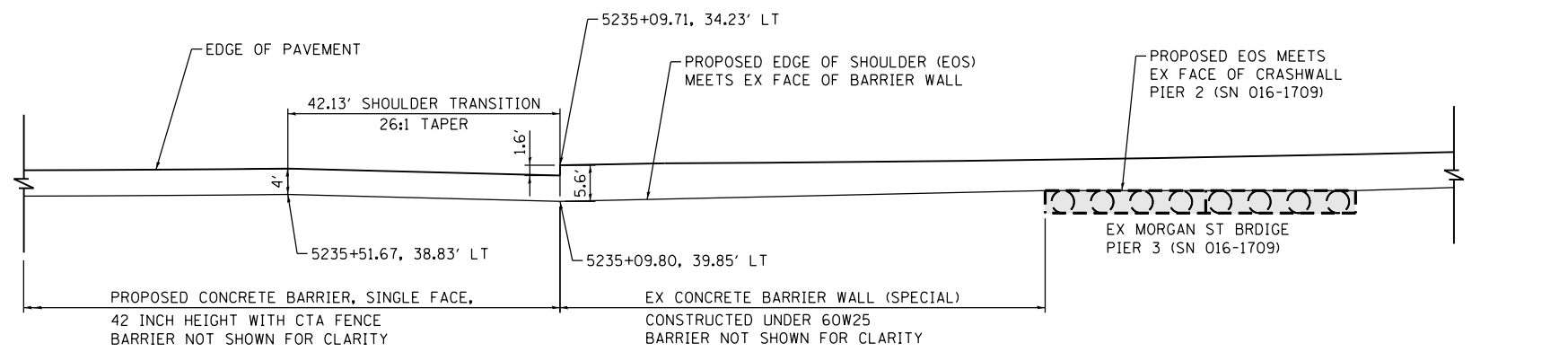
PLAN VIEW
SCALE: NONE

- NOTES:**
- FOR ADDITIONAL INFORMATION FOR CONCRETE BARRIER TRANSITION, SEE DETAIL "C" ON SHEET 262
 - FOR VARIOUS CONCRETE BARRIER DETAILS, SEE SHEETS 209A, AND 259 TO 260

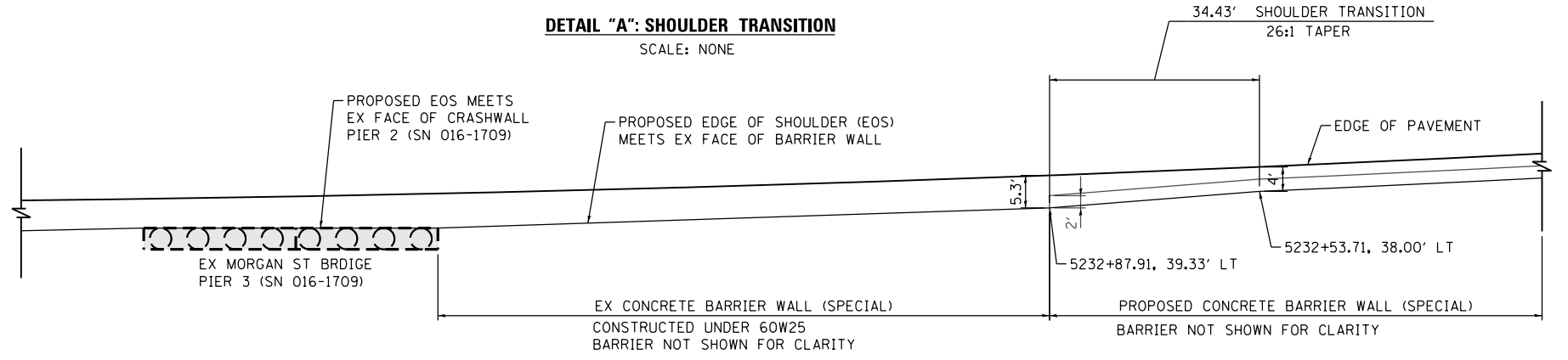
- LEGEND:**
- (A) PORTLAND CEMENT CONCRETE SHOULDERS 11"
 - (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
 - (C) AGGREGATE SUBGRADE IMPROVEMENT 12"



SECTION A-A
CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT (SPECIAL)
WITH CTA FENCE



DETAIL "A": SHOULDER TRANSITION
SCALE: NONE



DETAIL "B": SHOULDER TRANSITION
SCALE: NONE

FILE PATH = p:\617479-PMINT\pccommon\line\local\AECOM_D592_NA\Documents\01_Americas\T\engp\station\60269938_Circle\Phase_1\1000_CAD\006_Roadway\Sheets\60X77_Contract\016877-SHT-Detail-04A.dgn



D160X77-SHT-Detail-04A.dgn
USER NAME = PIMSARN0
PLOT SCALE = 40.0000' / in.
PLOT DATE = 4/29/2016

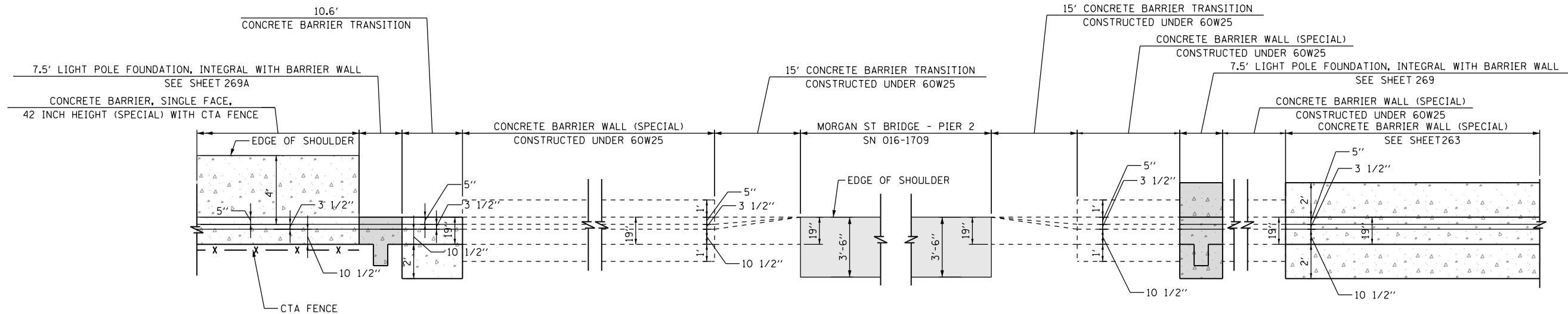
DESIGNED - OPS	REVISED -
DRAWN - OPS	REVISED -
CHECKED - DBM	REVISED -
DATE - 4/27/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

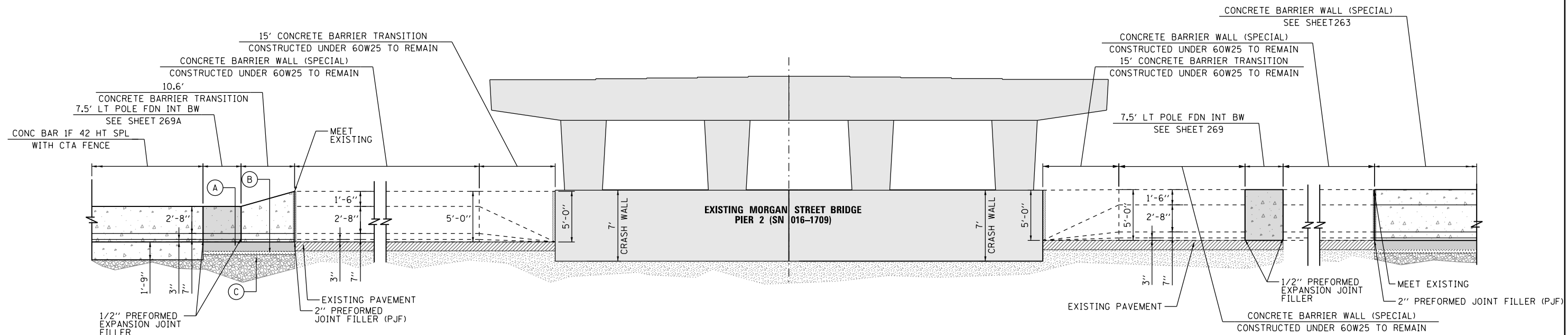
ROADWAY DETAILS: CONCRETE BARRIER TRANSITION
AT MORGAN STREET BRIDGE
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	261
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\61779-PM\INT\pccommon\line\local\AECOM\0902_NA\Documents\01_Americas\T\engor\station\6026938_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-SHT-Detail-04B.dgn



DETAIL "C": PLAN VIEW
 CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT WITH CTA FENCE
 SCALE: NONE



DETAIL "C": ELEVATION VIEW
 CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT WITH CTA FENCE
 SCALE: NONE

LEGEND:

- (A) CONCRETE BARRIER BASE (MATCHING THICKNESS OF SHOULDER)
- (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (C) AGGREGATE SUBGRADE IMPROVEMENT 12"



D160X77-SHT-Detail-04B.dgn
 USER NAME = dshevoez
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 4/28/2016

DESIGNED - OPS
 DRAWN - OPS
 CHECKED - DBM
 DATE - 4/27/2016

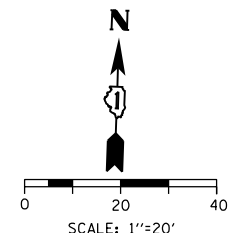
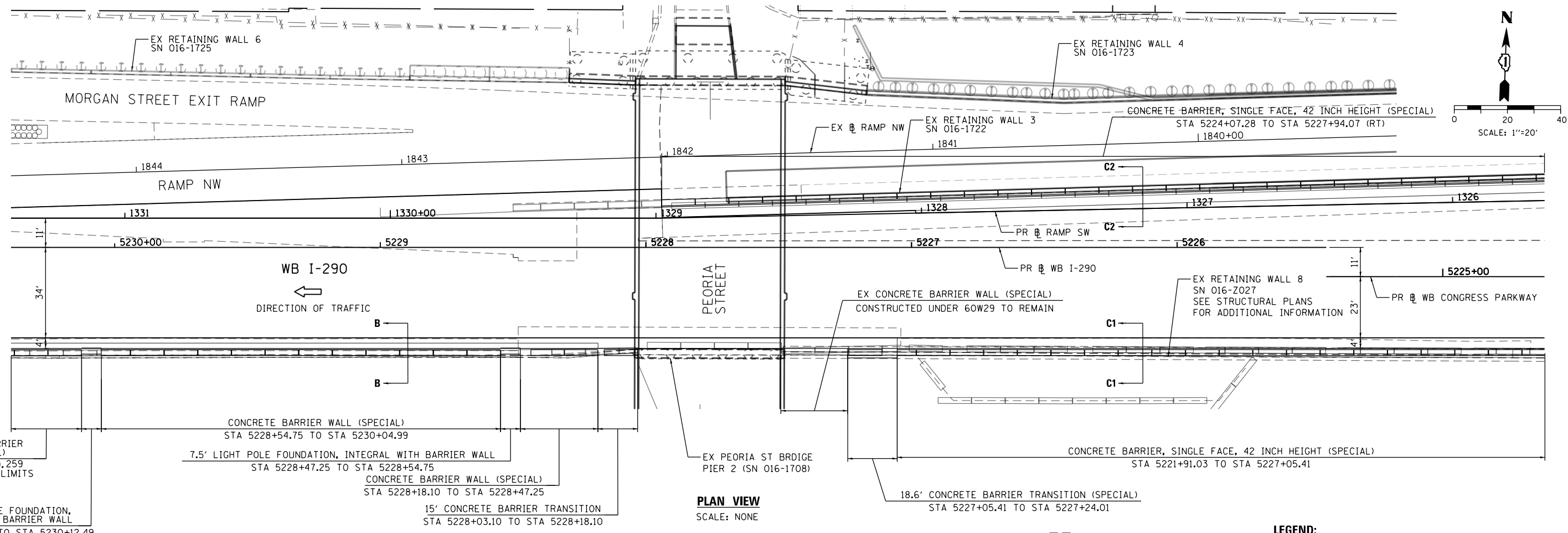
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS: CONCRETE BARRIER TRANSITION
AT MORGAN STREET BRIDGE

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

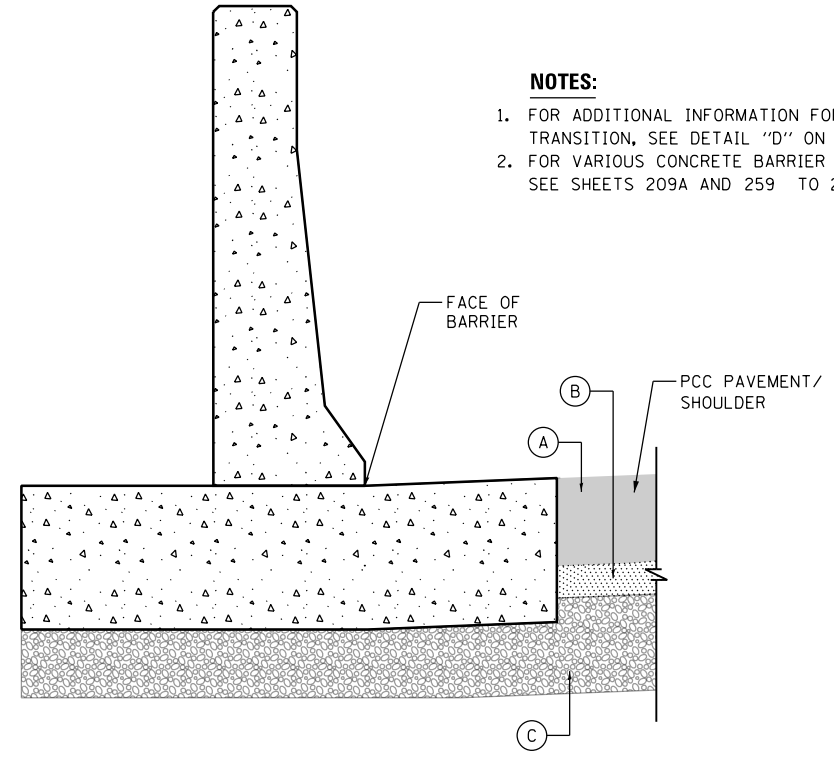
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	262
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



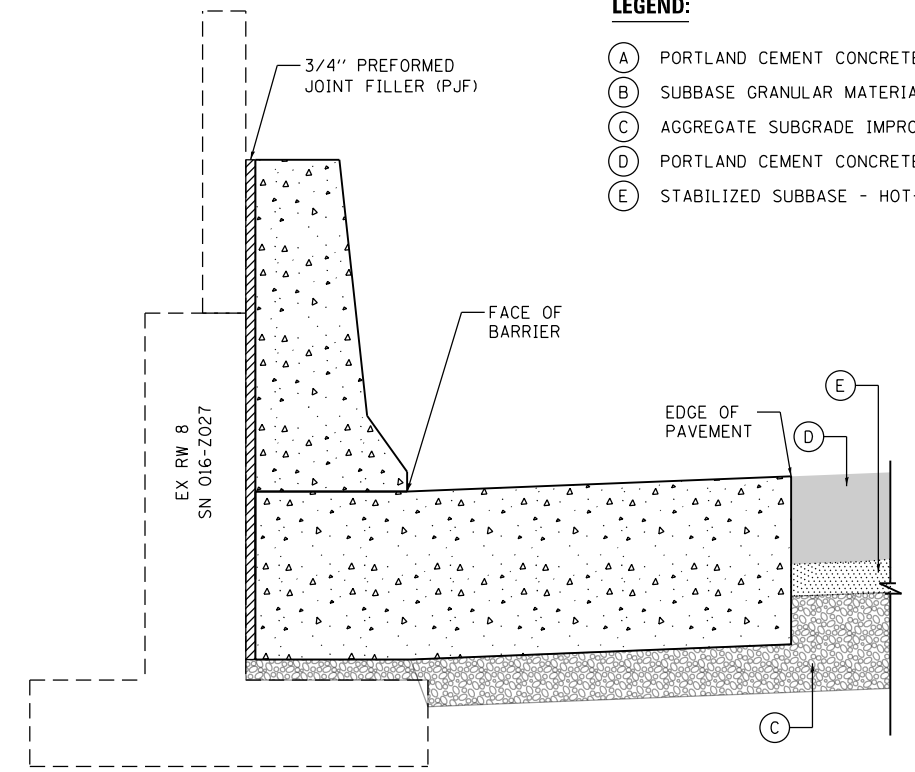
PLAN VIEW
SCALE: NONE

NOTES:

1. FOR ADDITIONAL INFORMATION FOR CONCRETE BARRIER TRANSITION, SEE DETAIL "D" ON SHEET 264
2. FOR VARIOUS CONCRETE BARRIER DETAILS, SEE SHEETS 209A AND 259 TO 260



SECTION B-B
CONCRETE BARRIER WALL (SPECIAL)



SECTION C1-C1 SHOWN, SECTION C2-C2 SIMILAR
CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
IN FRONT OF EXISTING STRUCTURE

LEGEND:

- (A) PORTLAND CEMENT CONCRETE SHOULDERS 11"
- (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (C) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (D) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
- (E) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"

FILE PATH = p:\617479-PMINT\pccommon\line\local\AECOM_D902_NA\Documents\01_Americas\T\engor\station\60269438_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X77_Contract\016077-SHT-Detail-05A.dgn



D160X77-SHT-Detail-05A.dgn	DESIGNED - OPS	REVISED -
USER NAME = PIMSARN0	DRAWN - OPS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 4/29/2016	DATE - 4/27/2016	REVISED -

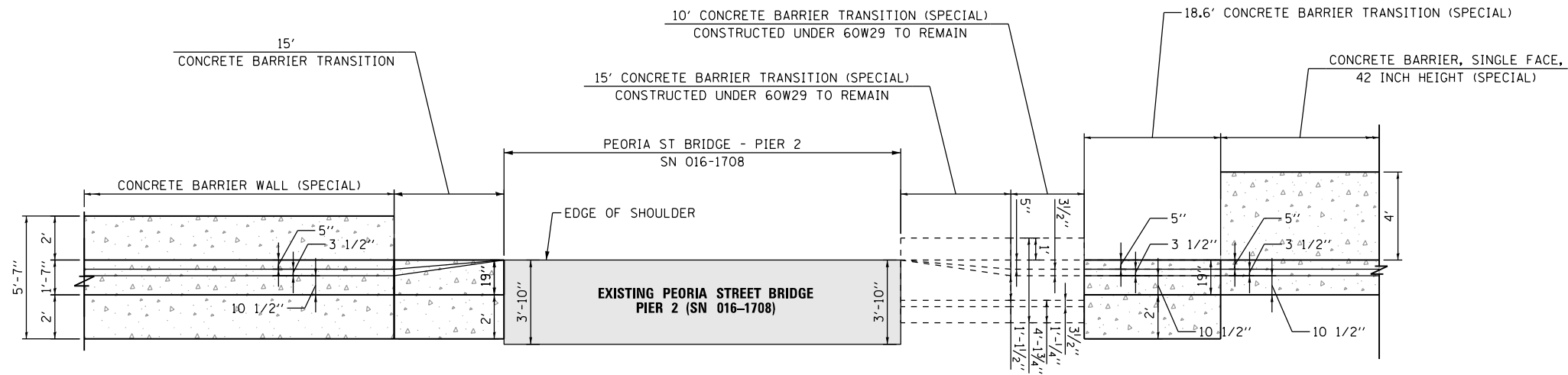
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS: CONCRETE BARRIER TRANSITION
AT PEORIA STREET BRIDGE

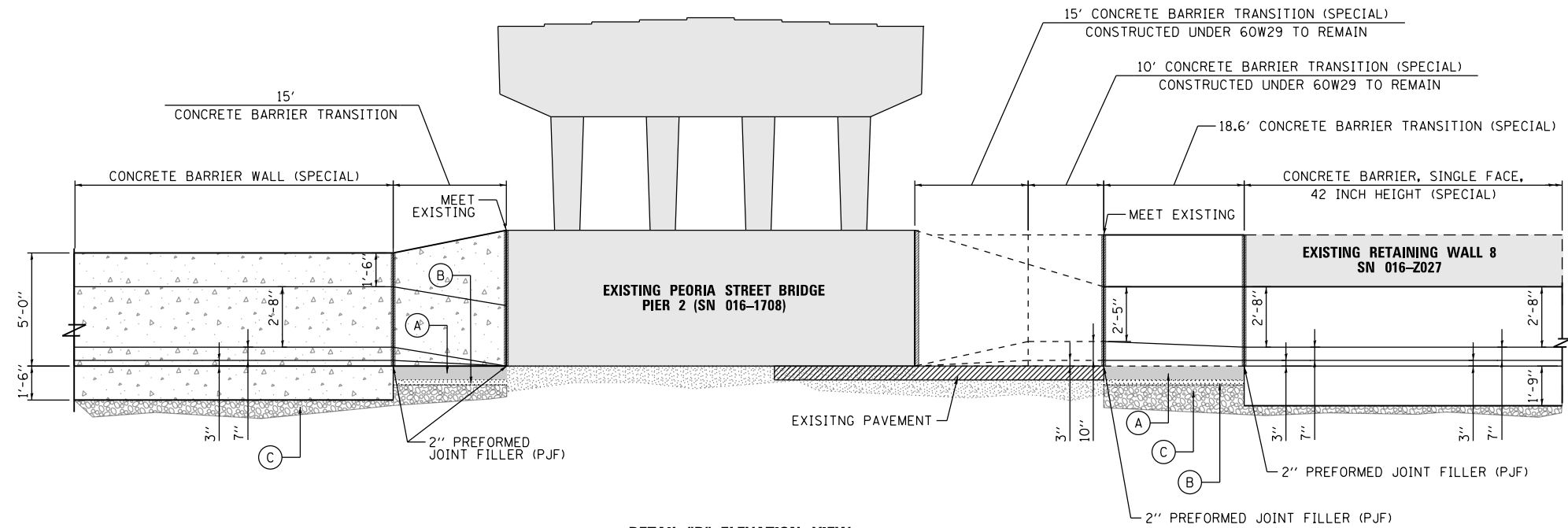
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	263
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\61779-PMINT\ascomon\line\local\AECOM\0902_NA\Documents\01\60X77_Contract\0160X77-SHT-Detail-095B.dgn



DETAIL "D": PLAN VIEW
 CONCRETE BARRIER TRANSITION
 AT PEORIA STREET BRIDGE
 SCALE: NONE



DETAIL "D": ELEVATION VIEW
 CONCRETE BARRIER TRANSITION
 AT PEORIA STREET BRIDGE
 SCALE: NONE

LEGEND:

- (A) CONCRETE BARRIER BASE (MATCHING THICKNESS OF SHOULDER)
- (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (C) AGGREGATE SUBGRADE IMPROVEMENT 12"



D160X77-SHT-Detail-095B.dgn
 USER NAME = dshevoz
 PLOT SCALE = 100.0000' / 1"

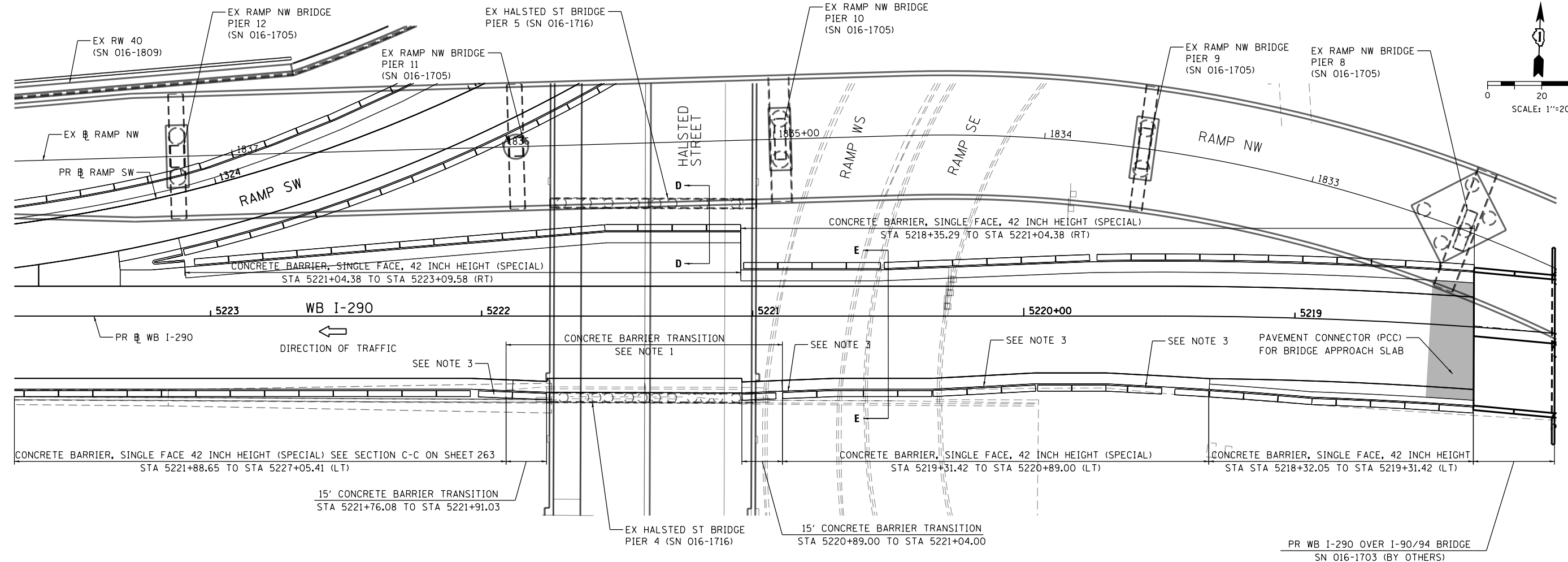
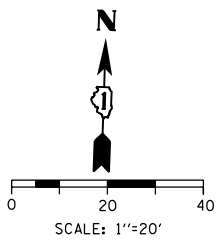
DESIGNED - OPS
 DRAWN - OPS
 CHECKED - DBM
 DATE - 4/27/2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

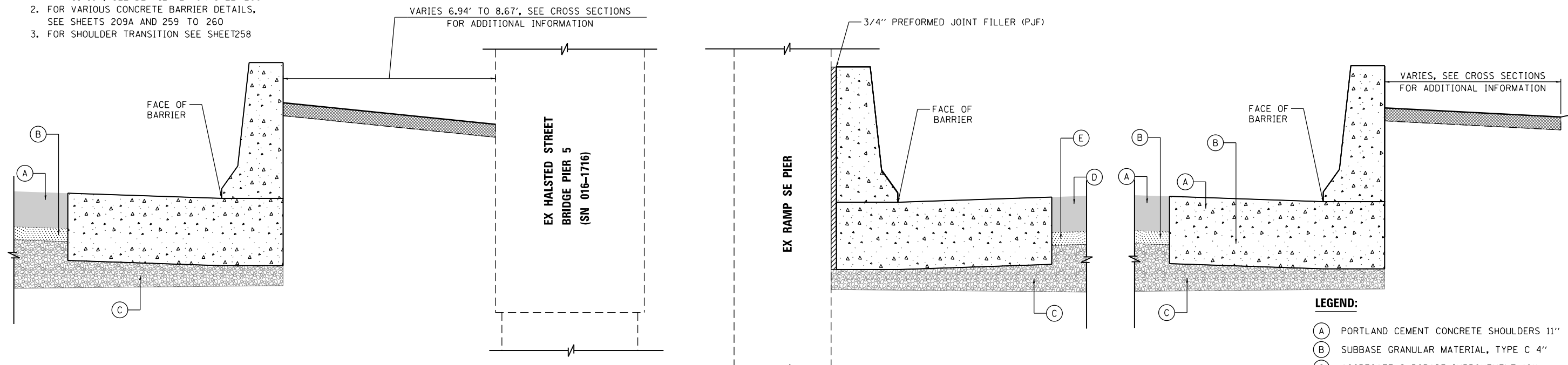
ROADWAY DETAILS: CONCRETE BARRIER TRANSITION
AT PEORIA STREET BRIDGE
 SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	264
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. FOR ADDITIONAL INFORMATION FOR CONCRETE BARRIER TRANSITION, SEE DETAIL "E" ON SHEET 266
 2. FOR VARIOUS CONCRETE BARRIER DETAILS, SEE SHEETS 209A AND 259 TO 260
 3. FOR SHOULDER TRANSITION SEE SHEET 258

PLAN VIEW
SCALE: NONE



SECTION D-D
CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
AT EXISTING HALSTED STREET BRIDGE PIER 5 (SN 016-1716)

SECTION E-E
CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
AT EXISTING RAMP SE PIER

- LEGEND:**
- (A) PORTLAND CEMENT CONCRETE SHOULDERS 11"
 - (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
 - (C) AGGREGATE SUBGRADE IMPROVEMENT 12"
 - (D) PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)
 - (E) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4"

FILE PATH = p:\617479-PMINT\pccommon\line\local\AECOM_D592_NA\Documents\01_Americas\T\engor\station\60269438_Circle\Phase_1\1000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-SHT-Detail-06A.dgn

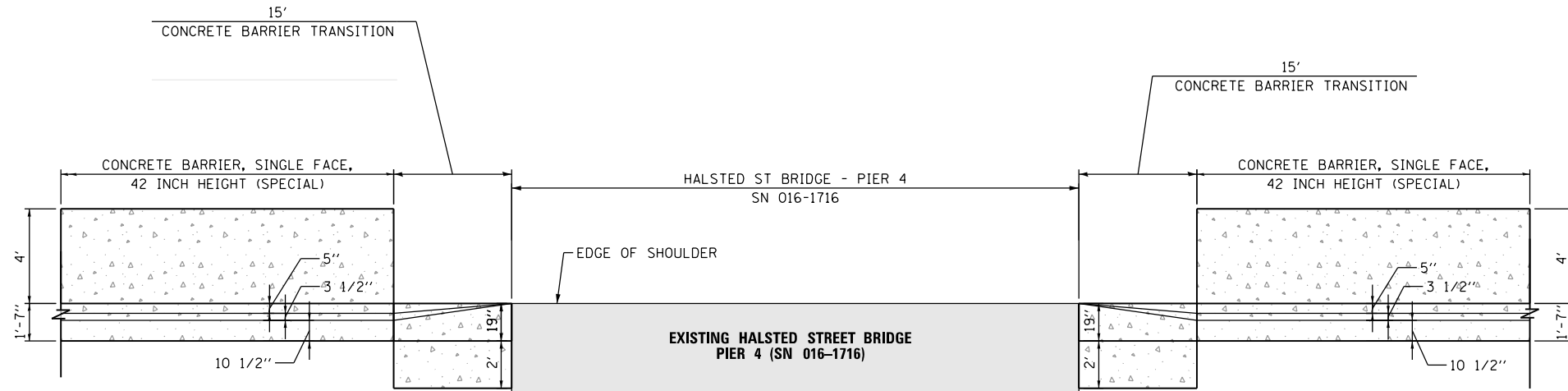


D160X77-SHT-Detail-06A.dgn	DESIGNED - OPS	REVISED -
USER NAME = dshevoz	DRAWN - OPS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 4/28/2016	DATE - 4/27/2016	REVISED -

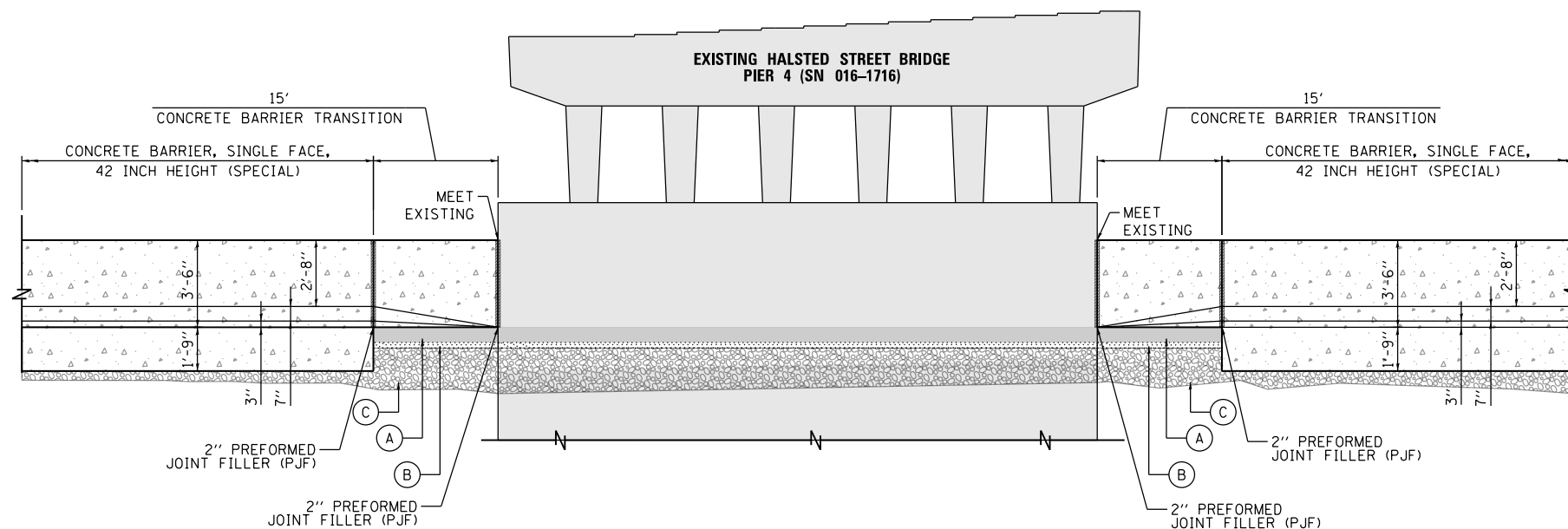
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS: CONCRETE BARRIER TRANSITION	
AT HALSTED STREET BRIDGE	
SCALE: NONE	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	265
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



DETAIL "E": PLAN VIEW
 CONCRETE BARRIER TRANSITION
 AT HALSTED STREET BRIDGE PIER 4
 SCALE: NONE



DETAIL "E": ELEVATION VIEW
 CONCRETE BARRIER TRANSITION
 AT HALSTED STREET BRIDGE PIER 4
 SCALE: NONE

LEGEND:

- (A) CONCRETE BARRIER BASE (MATCHING THICKNESS OF SHOULDER)
- (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (C) AGGREGATE SUBGRADE IMPROVEMENT 12"

FILE PATH = p:\61779-PMINT\docomonline\local\AECOM\DS02_MIA\Documents\01_Americas\Tennessee\location\60264938_Circle\Phase 1\1000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-SHT-Detail-06B.dgn



D160X77-SHT-Detail-06B.dgn
 USER NAME = dishevoz
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 4/28/2016

DESIGNED - OPS
 DRAWN - OPS
 CHECKED - DBM
 DATE - 4/27/2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

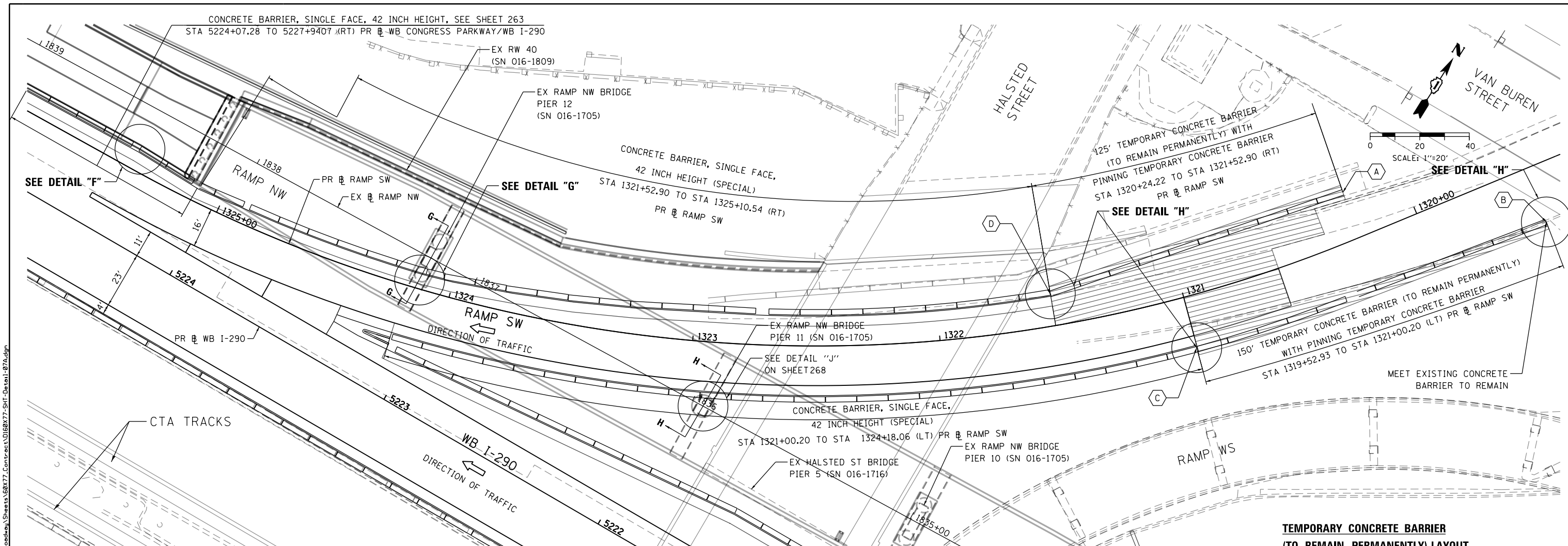
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS: CONCRETE BARRIER TRANSITION
 AT HALSTED STREET BRIDGE**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	266
CONTRACT NO. 60X77				

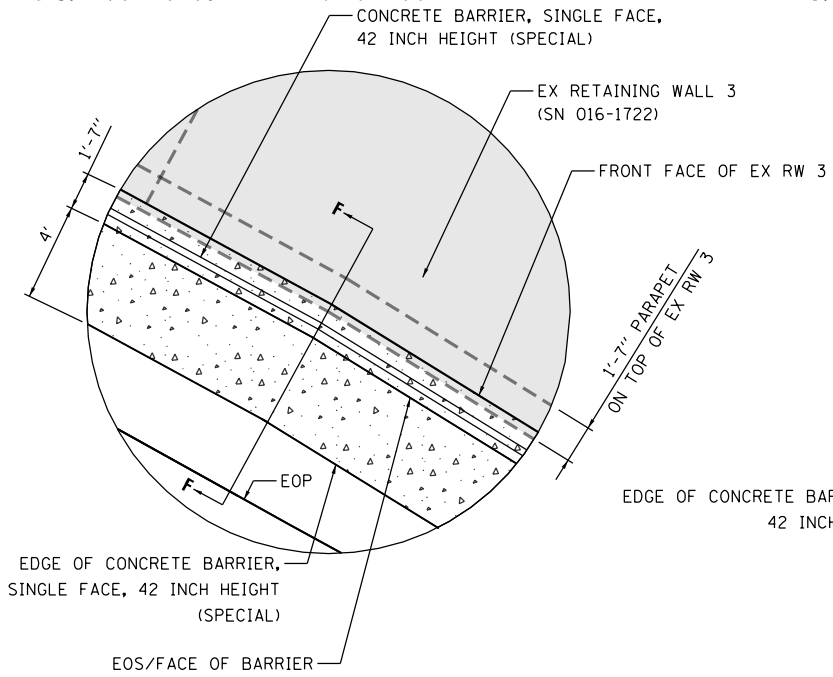
ILLINOIS FED. AID PROJECT



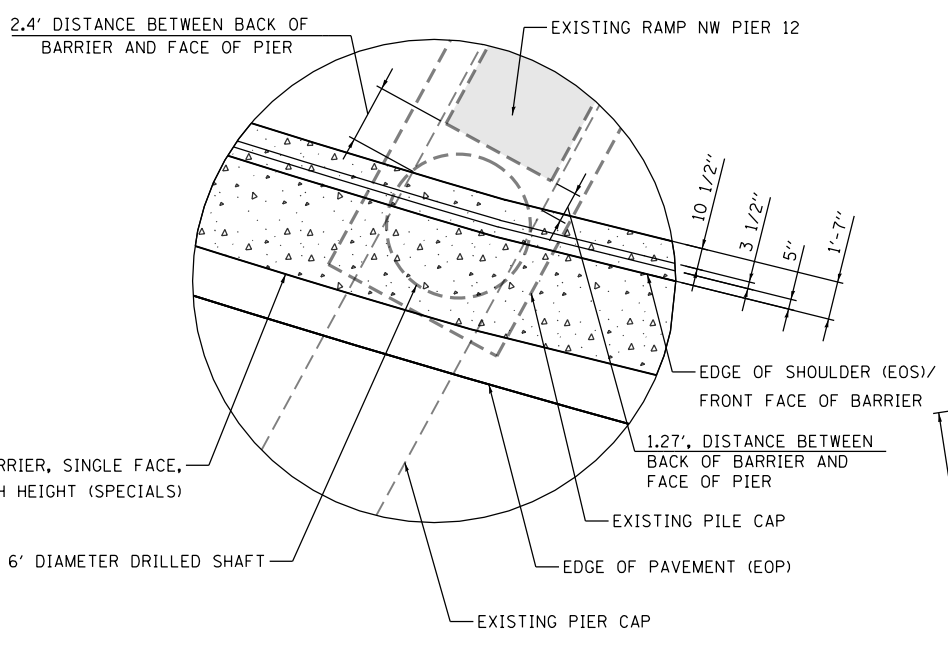
**TEMPORARY CONCRETE BARRIER
(TO REMAIN PERMANENTLY) LAYOUT**

- A 1320+24.22, 19.34' RT
- B 1319+52.93, 23.10' LT
- C 1321+00.20, 21.00' LT
- D 1321+52.90, 13.00' RT

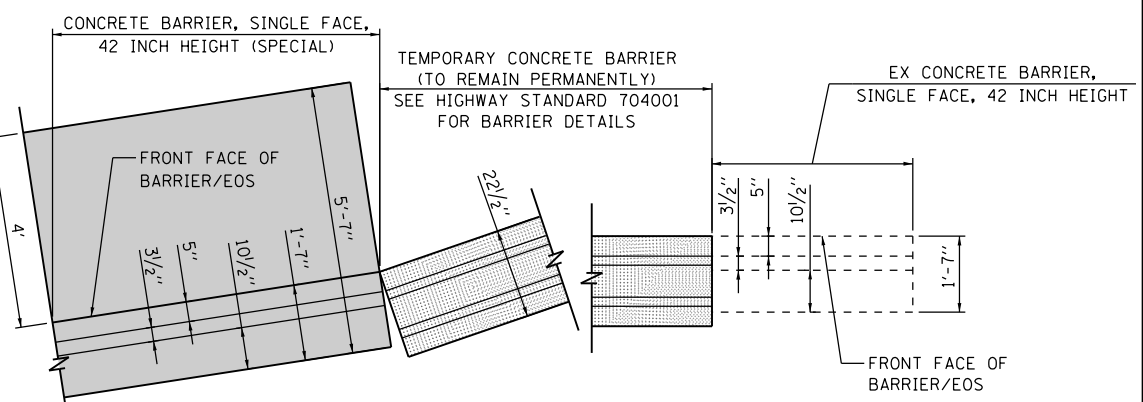
- NOTES:**
- FOR SECTIONS F-F, G-G AND H-H SEE SHEET 268 FOR VARIOUS CONCRETE BARRIER DETAILS.
 - SEE SHEETS 259 TO 260



DETAIL "F"
CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
IN FRONT OF EX RETAINING WALL 3 (SN 016-1722)
SCALE: NONE



DETAIL "G"
CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
AT EXISTING RAMP NW BRIDGE PIER 12 (SN 016-1705)
SCALE: NONE



DETAIL "H"
PR AND EX CONCRETE BARRIER WALLS MEET
TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY)
SCALE: NONE

FILE PATH = p:\617479-PMINT\pccommon\line\local\AECOM_D902_MIA\Documents\01_Americas\T\engor\station\60269938_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X77_Concrete\0160X77-SHT-Detail-07A.dgn



D160X77-SHT-Detail-07A.dgn
USER NAME = PIMSARN0
PLOT SCALE = 40.0000' / in.
PLOT DATE = 4/29/2016

DESIGNED - OPS	REVISED -
DRAWN - OPS	REVISED -
CHECKED - DBM	REVISED -
DATE - 4/27/2016	REVISED -

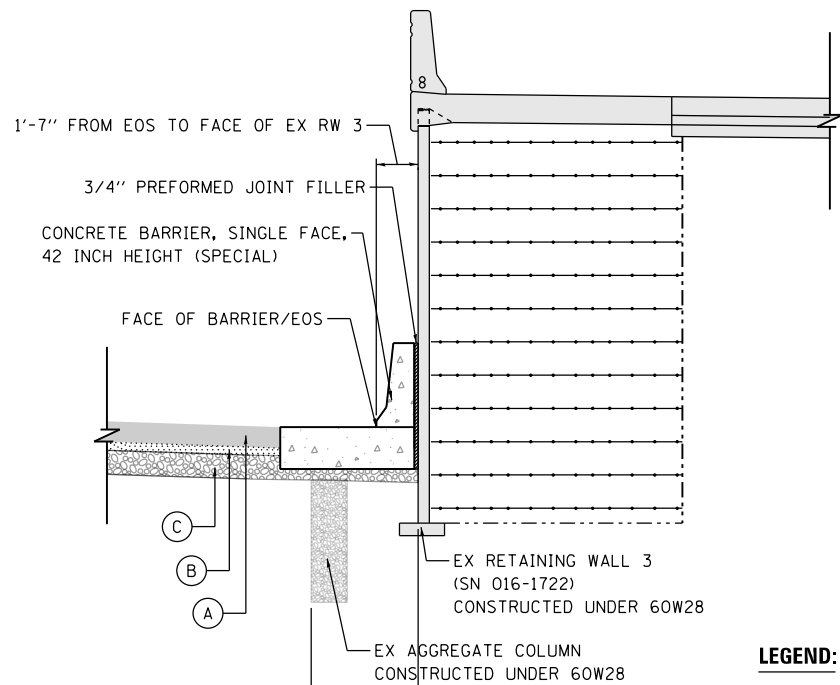
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS: CONCRETE BARRIER AND
TEMPORARY CONCRETE BARRIER AT RAMP SW**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	267
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

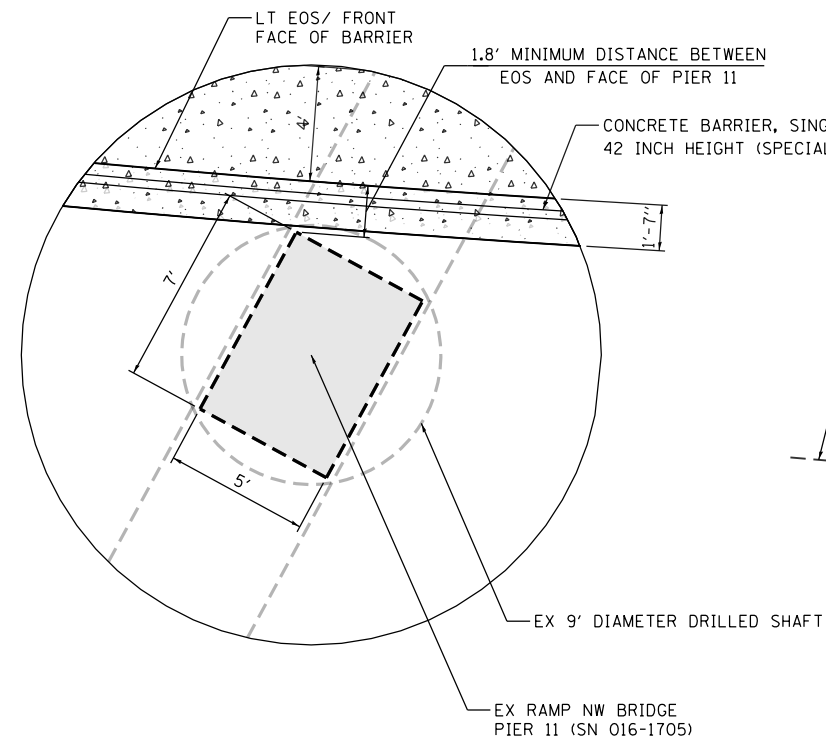
FILE PATH = p:\61779-PMINT\pccom\line\local\AECOM\0502_NA\Documents\01_Americas\T\engor\station\60269438_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60x77_Concrete\016077-SHT-Detail-07B.dgn



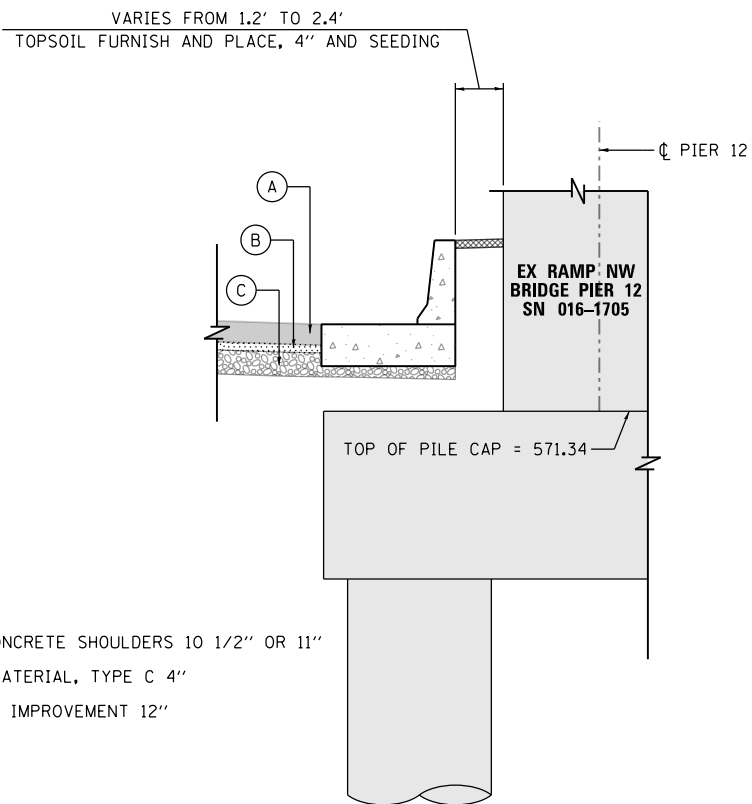
SECTION F-F
SCALE: NONE

LEGEND:

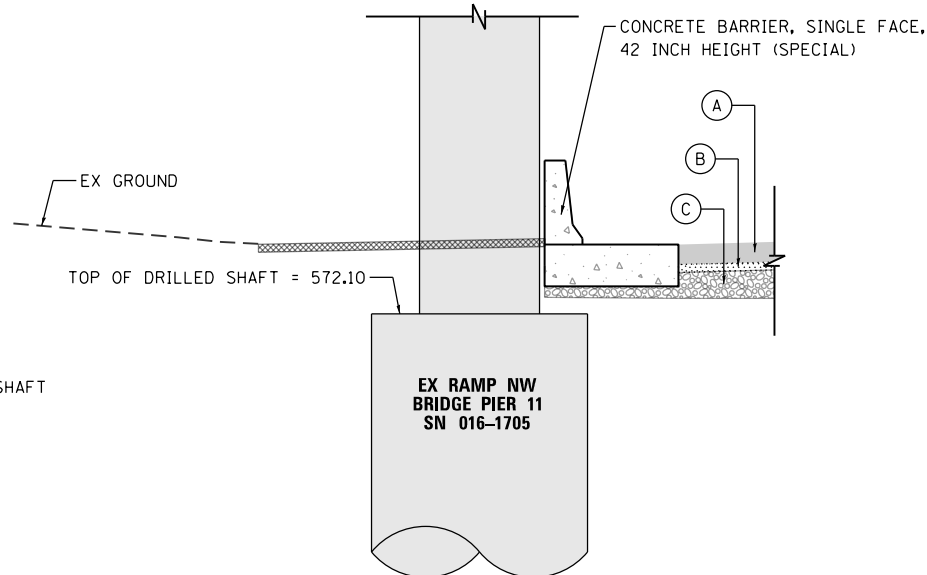
- (A) PORTLAND CEMENT CONCRETE SHOULDERS 10 1/2" OR 11"
- (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (C) AGGREGATE SUBGRADE IMPROVEMENT 12"



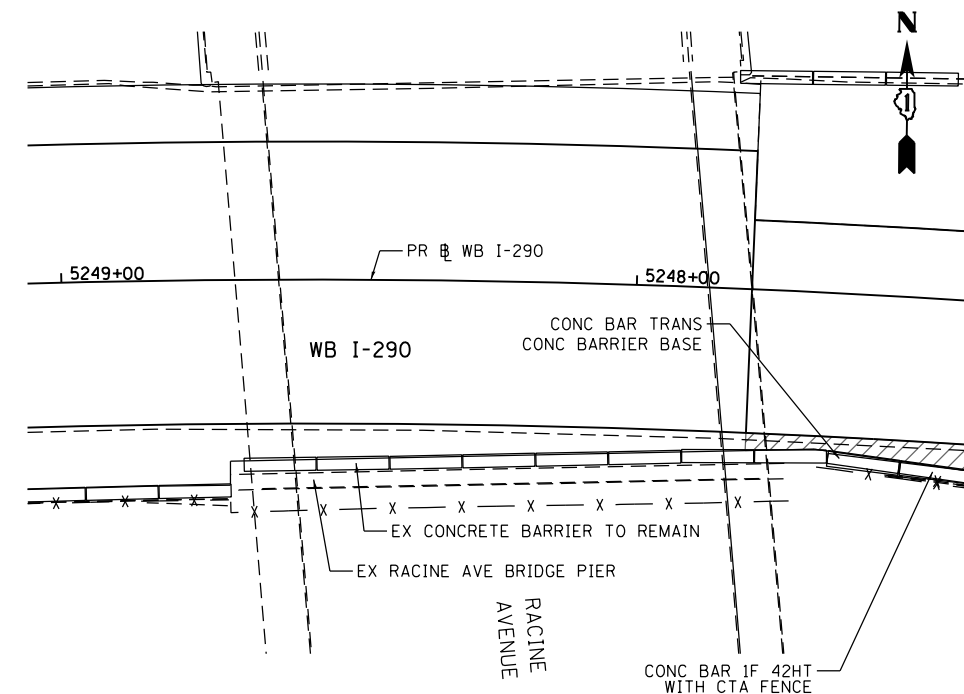
DETAIL "J"
CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT (SPECIAL)
AT EXISTING RAMP NW BRIDGE PIER 11 (SN 016-1705)
SCALE: NONE



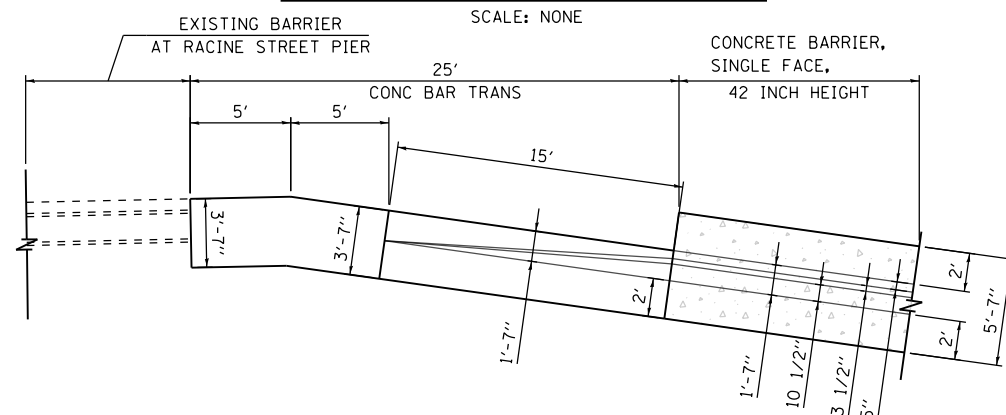
SECTION G-G
SCALE: NONE



SECTION H-H
SCALE: NONE



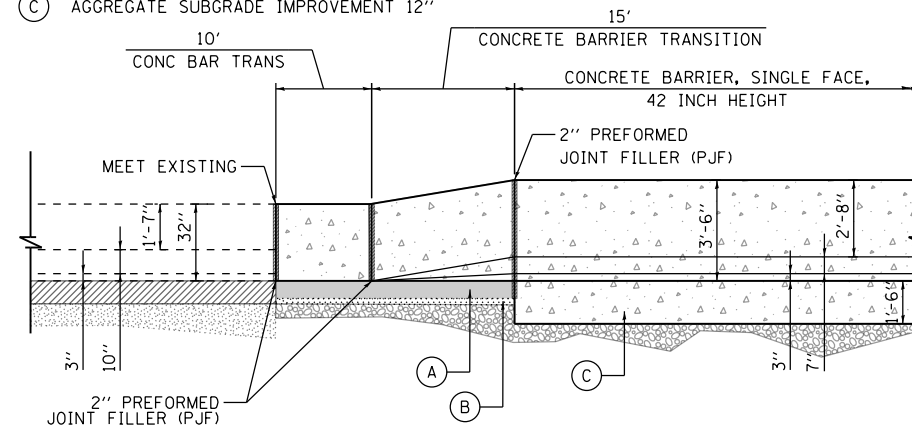
BARRIER TRANSITION AT RACINE STREET BRIDGE



PLAN VIEW: BARRIER TRANSITION AT RACINE STREET BRIDGE
SCALE: NONE

LEGEND:

- (A) CONCRETE BARRIER BASE (MATCHING THICKNESS OF SHOULDER)
- (B) SUBBASE GRANULAR MATERIAL, TYPE C 4"
- (C) AGGREGATE SUBGRADE IMPROVEMENT 12"



ELEVATION VIEW: BARRIER TRANSITION AT RACINE STREET BRIDGE
SCALE: NONE



D16077-SHT-Detail-07B.dgn
USER NAME = PIMSARN0
PLOT SCALE = 100.0000' / 1\"/>

DESIGNED - OPS
DRAWN - OPS
CHECKED - DBM
DATE - 4/27/2016

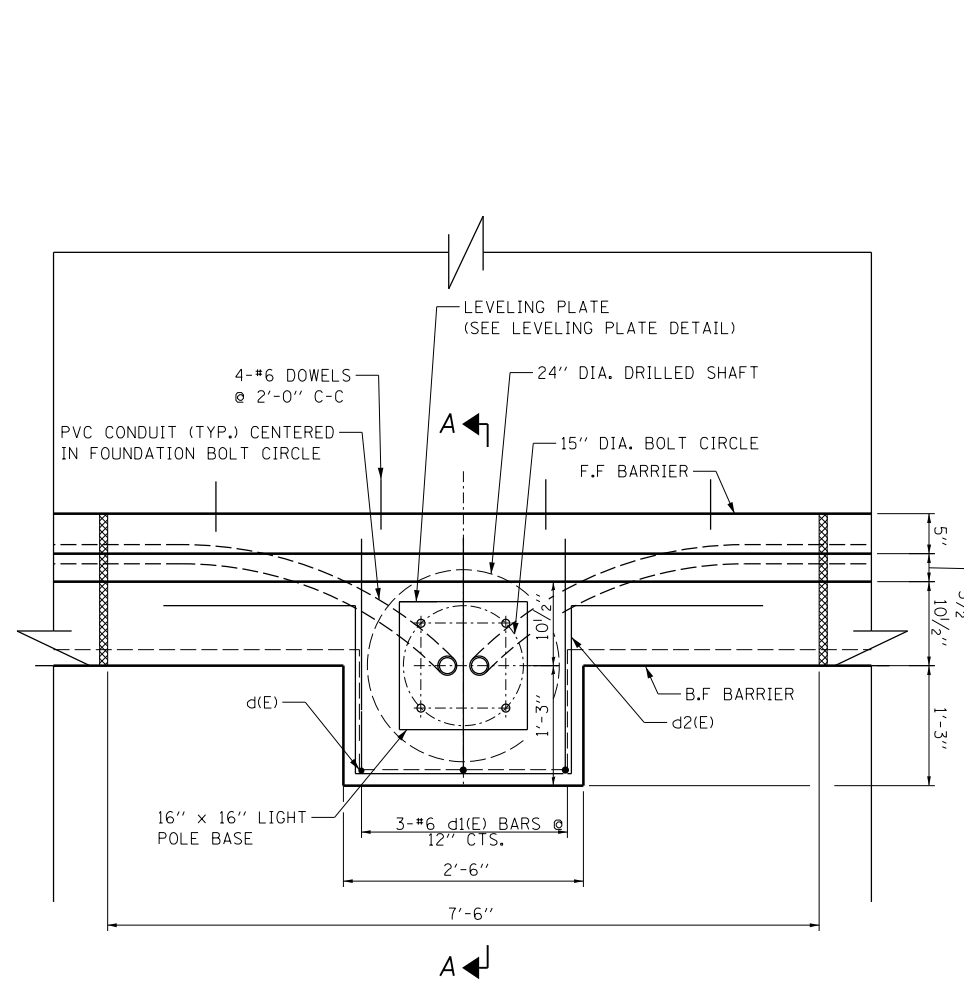
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

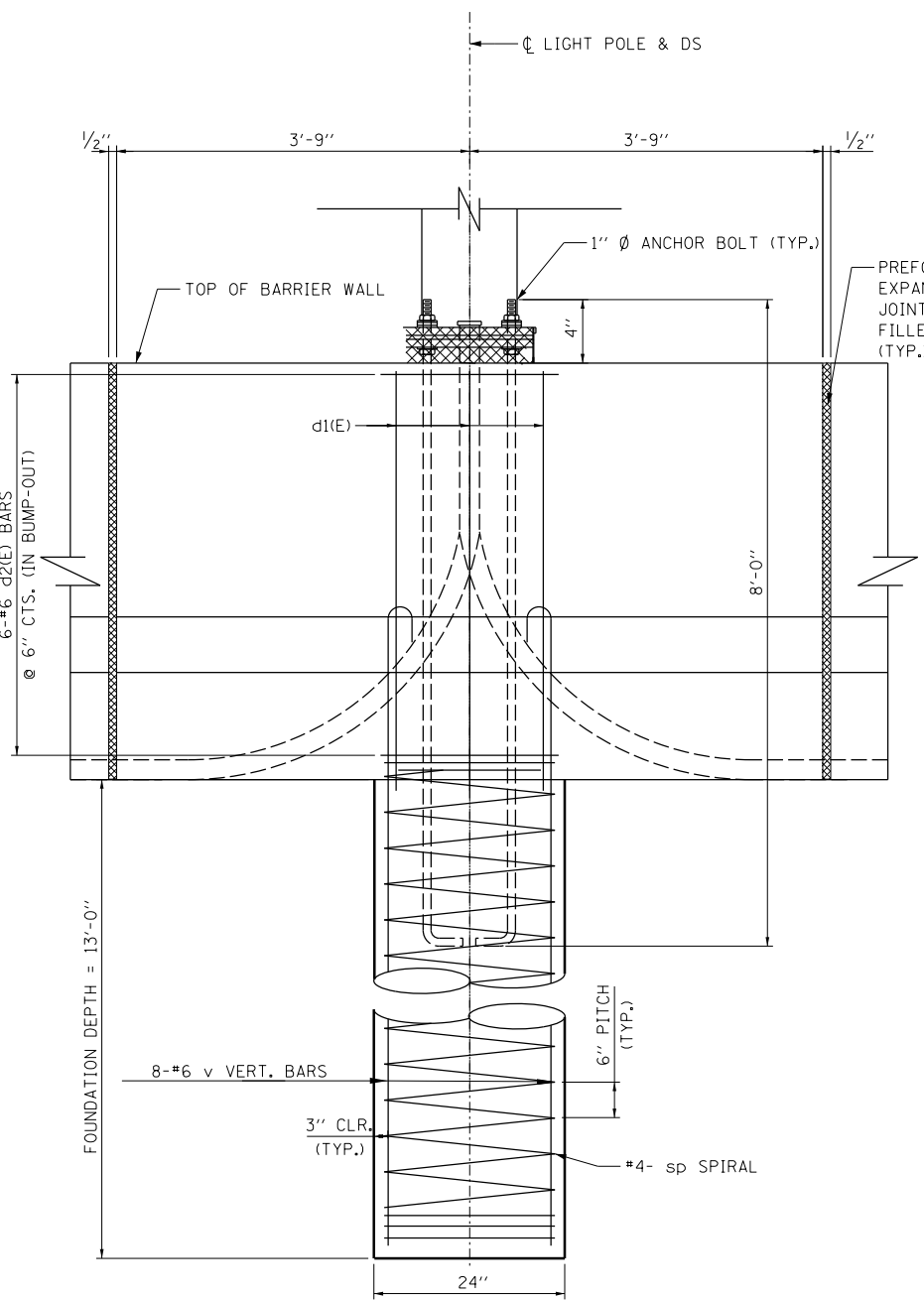
ROADWAY DETAILS: CONCRETE BARRIER AND TEMP CONCRETE BARRIER
AT RAMP SW AND BARRIER TRANSITION AT RACINE AVENUE BRIDGE
SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	268
CONTRACT NO. 60X77			ILLINOIS FED. AID PROJECT	

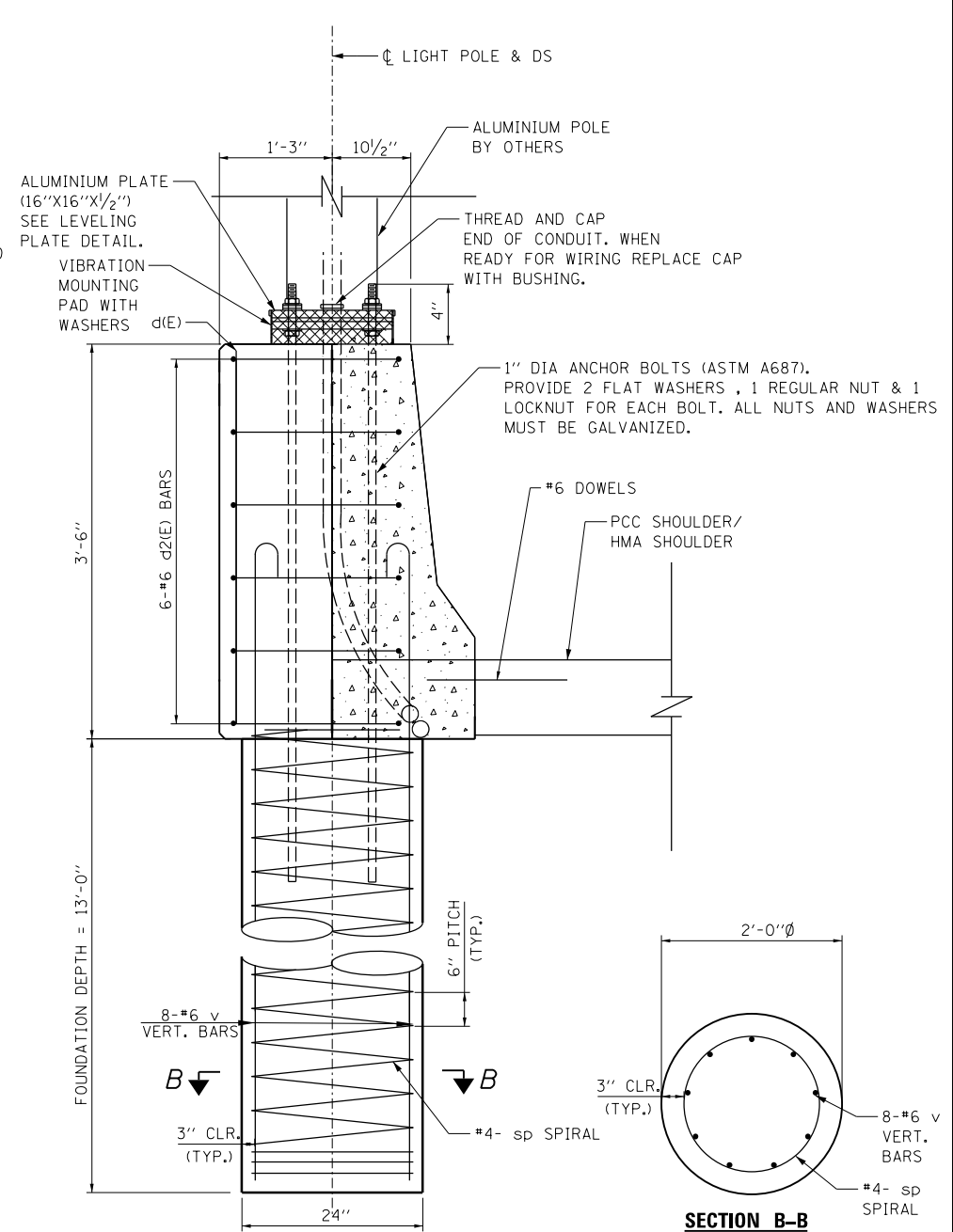
FILE PATH = \\unc\glf\9001\p\road\Projects\60288727\000_CAD\006-Roadway\Printing\60288727\2016-03-14-60288727-FINAL_PLOT.DWG\60288727-SHT-Details-08A.dgn



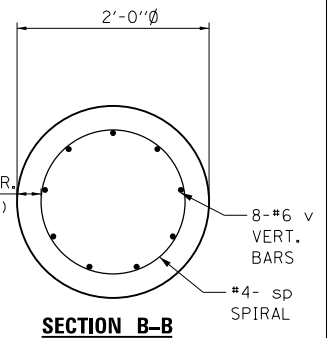
PLAN
LIGHT POLE MOUNTED ON CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT



ELEVATION
LIGHT POLE MOUNTED ON CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT



SECTION A-A
LIGHT POLE MOUNTED ON CONCRETE BARRIER, SINGLE FACE, 42 INCH HEIGHT



SECTION B-B

NOTE:
 1. ALL WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER THE PAY ITEM "LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL".
 2. WORK THIS SHEET WITH SHEET 269B.



D160X77-SHT-Details-08A.dgn	DESIGNED - AV	REVISED -
USER NAME = dshevoz	DRAWN - AV	REVISED -
PLOT SCALE = 100:0 1" = 10'	CHECKED - ATB	REVISED -
PLOT DATE = 3/15/2016	DATE - 3/14/2016	REVISED -

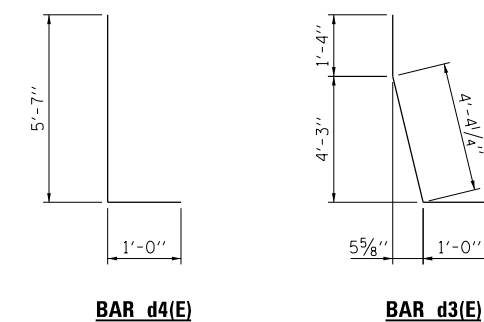
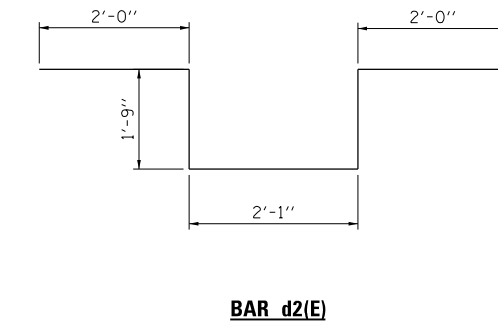
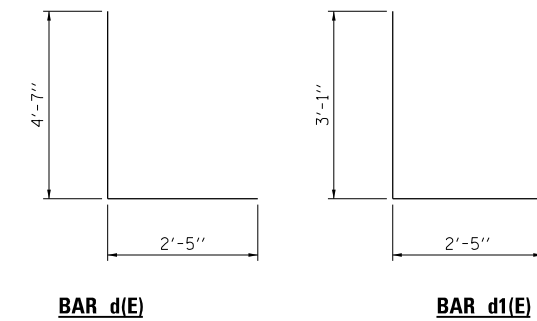
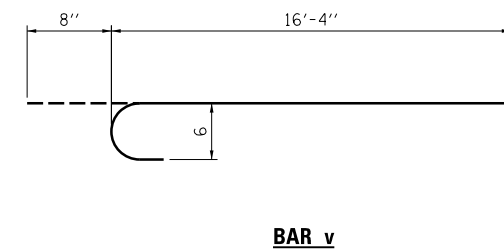
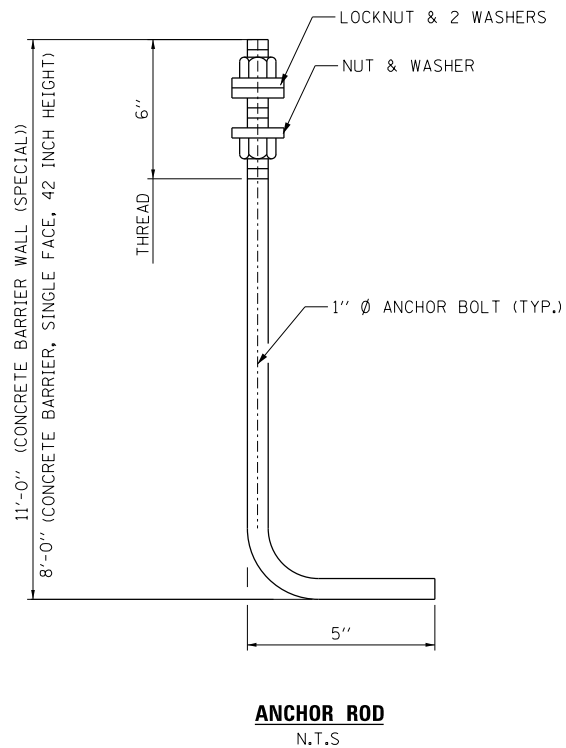
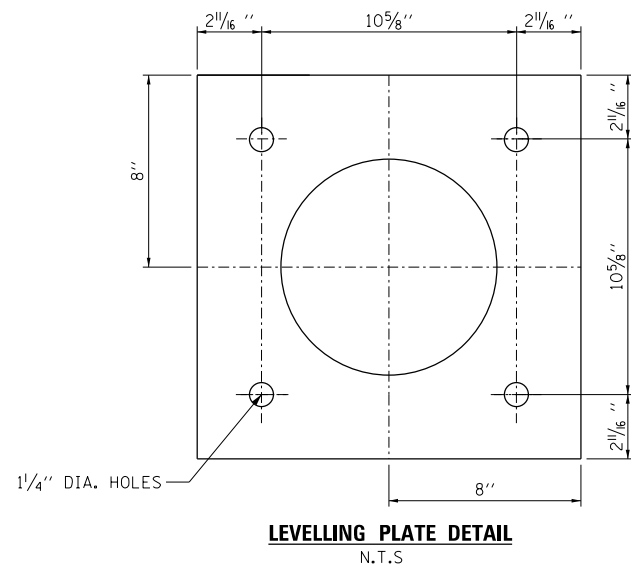
DESIGNED - AV	REVISED -
DRAWN - AV	REVISED -
CHECKED - ATB	REVISED -
DATE - 3/14/2016	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY DETAILS: LIGHT POLE MOUNTED ON
 CONCRETE BARRIER WALL (SPECIAL) II**

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	269A
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.
2. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE CONCRETE IS PLACED IN THE FORMS.
3. COLD BENDING OF THE HOOK BOLT SHALL NOT BE ALLOWED.
4. EXCAVATION FOR THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 24" IN DIA.
5. REINFORCEMENT BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
6. LEVEL LIGHT POLE PLATES, USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE TOP OF PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
7. #3 SP. SPIRAL - PROVIDE 1/2 EXTRA TURNS, SHOP WELDED TOGETHER PER AWS D1.4 TOP AND BOTTOM. EXTEND SPIRAL 3" INTO PARAPET FOUNDATION OR PARAPET. PROVIDE 4-#3 SPACERS OR EQUIVALENT.
8. ALL WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER THE PAY ITEM "LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL".
9. WORK THIS SHEET WITH SHEET 269 & 269A.

FILE PATH = \\uncitglf9001\prod\prod\prod\Projects\602877\000_CAD\006-Roadway\Printing\602877\2016-03-14-602877-FINAL_PLOT.DWG\01602877-SHT-Details-008.dgn



D160X77-SHT-Details-008.dgn
USER NAME = dshevoz
PLOT SCALE = 100:0 '1' / in.
PLOT DATE = 3/15/2016

DESIGNED - AV
DRAWN - AV
CHECKED - ATB
DATE - 3/14/2016

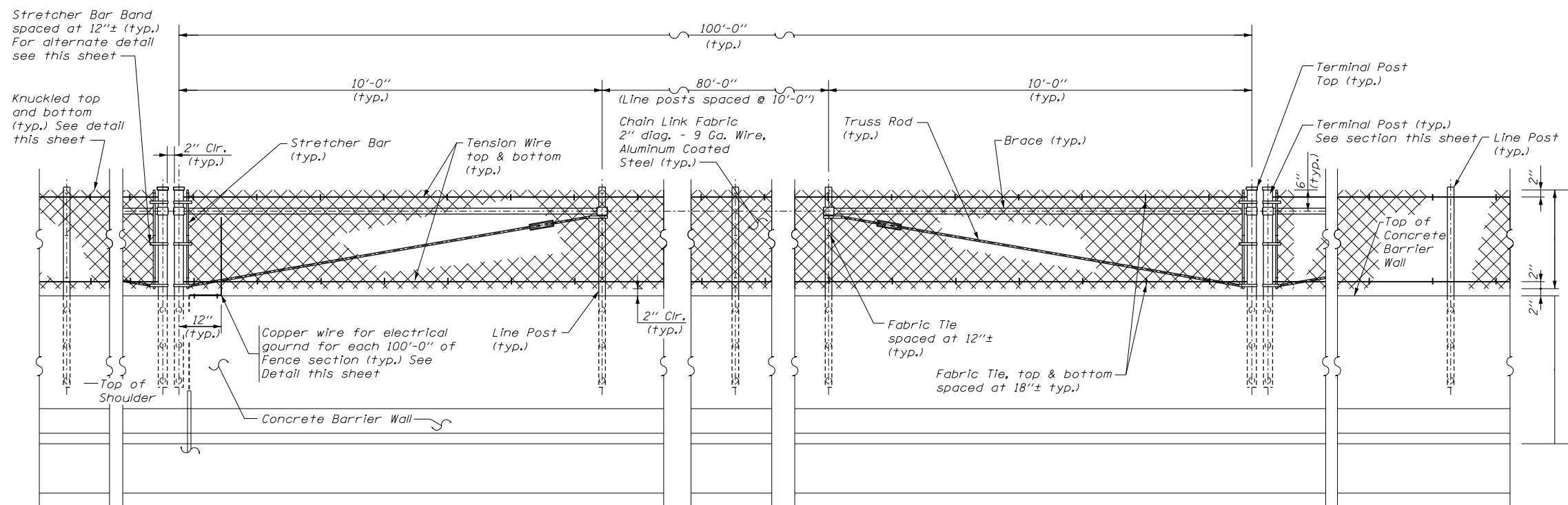
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

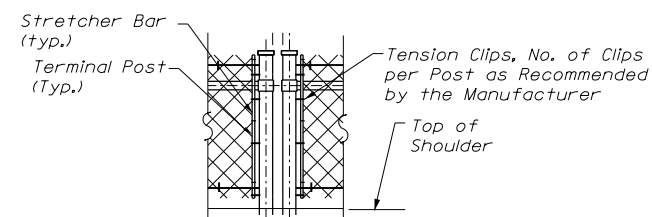
**ROADWAY DETAILS: LIGHT POLE MOUNTED ON
CONCRETE BARRIER WALL (SPECIAL) III**

SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

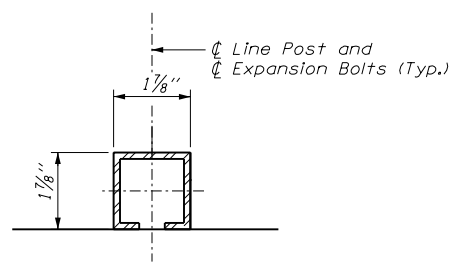
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	269B
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



ELEVATION
CHAIN LINK FENCE ON CONCRETE BARRIER WALL

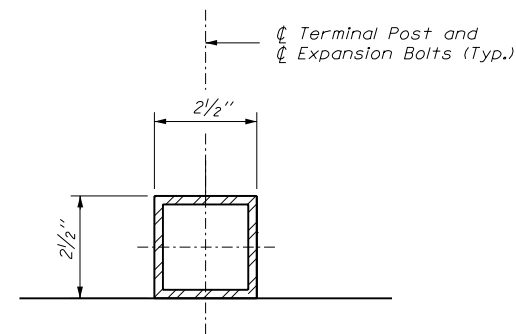


ALTERNATE DETAIL FOR
STRETCHER BAR BAND

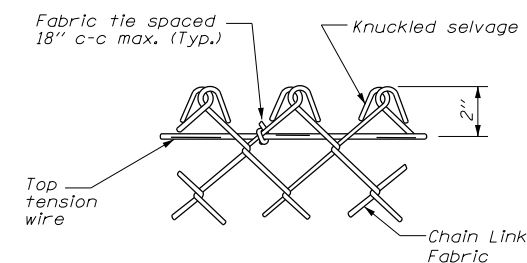


LINE POST SECTION

NOTE: The Contractor May Use Another
C Section as per the Standards of the Illinois
Department of Transportation.



TERMINAL POST SECTION



KNUCKLED DETAIL

FILE PATH = \\unc\gl\p\road\Projects\602877\000_CAD\006-Roadway\Printing\60X77-2016-03-14-60X77-FINAL_PLOT.DWG\60X77-SHT-Details\09a.dgn



D160X77-SHT-Details-09a.dgn
USER NAME = dshevoz
PLOT SCALE = 100.0000' / in.
PLOT DATE = 3/15/2016

DESIGNED - OPS
DRAWN - OPS
CHECKED - DBM
DATE - 3/14/2016

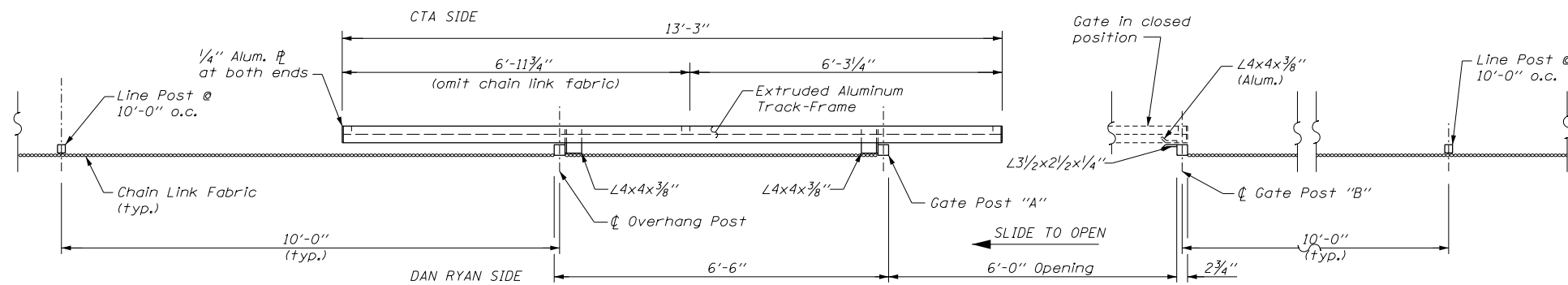
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

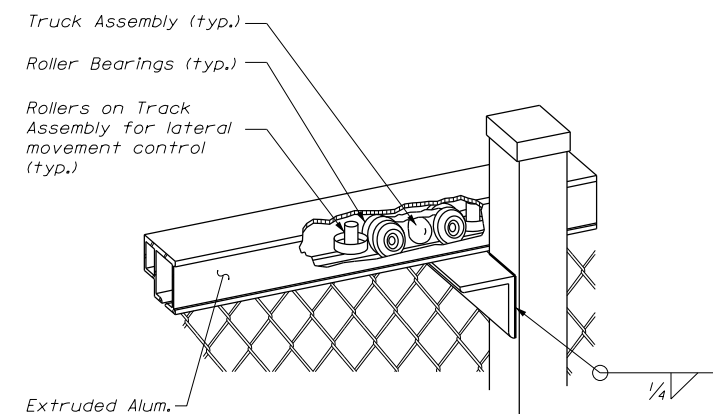
ROADWAY DETAILS: CTA FENCE

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

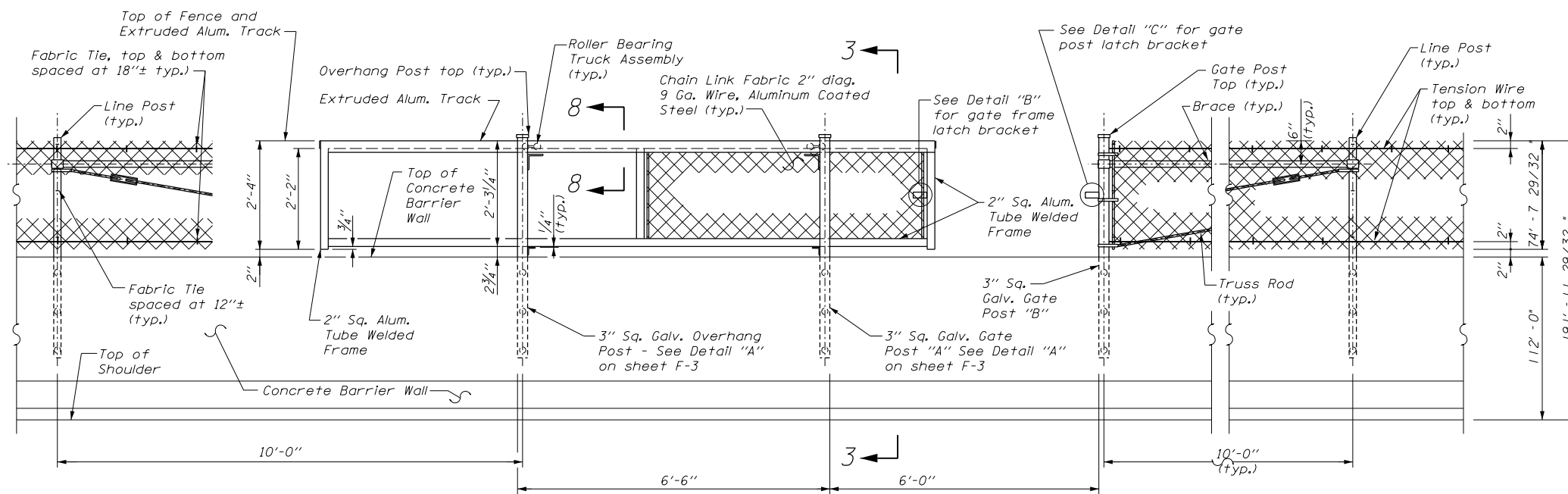
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	270
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



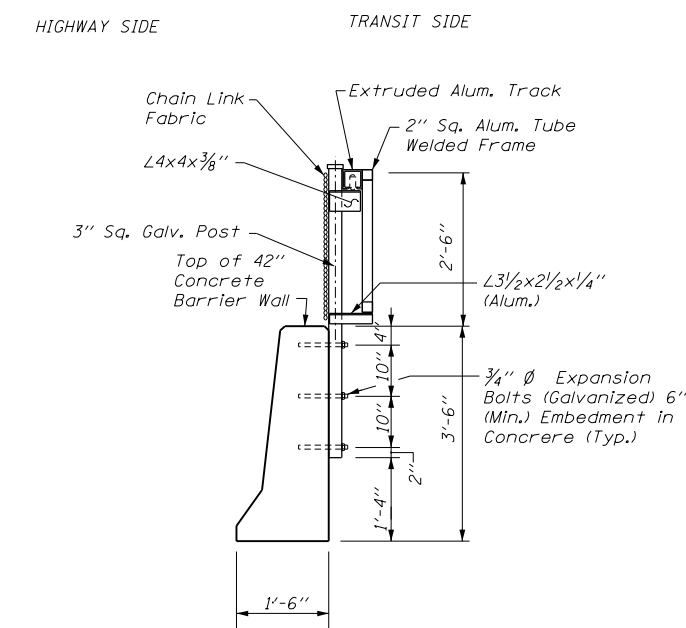
PLAN
(BARRIER WALL NOT SHOWN)



ROLLER BEARING TRUCK ASSEMBLY DETAIL



ELEVATION
CHAIN LINK FENCE SLIDING GATE
(FOOTING NOT SHOWN)



SECTION 3-3

FILE PATH = \\unc\gl\p\road\Projects\602877-000_CAD\006-Roadway\Printing\602877-SHT-Detail-098.dgn
 303 EAST WACKER DRIVE, SUITE 1400
 CHICAGO, IL 60601-5276
 PHONE: (312) 373-1700 FAX: (312) 373-6800



D160X77-SHT-Detail-098.dgn	DESIGNED - OPS	REVISED -
USER NAME = dshevoz	DRAWN - OPS	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 3/15/2016	DATE - 3/14/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS: CTA FENCE

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	271
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

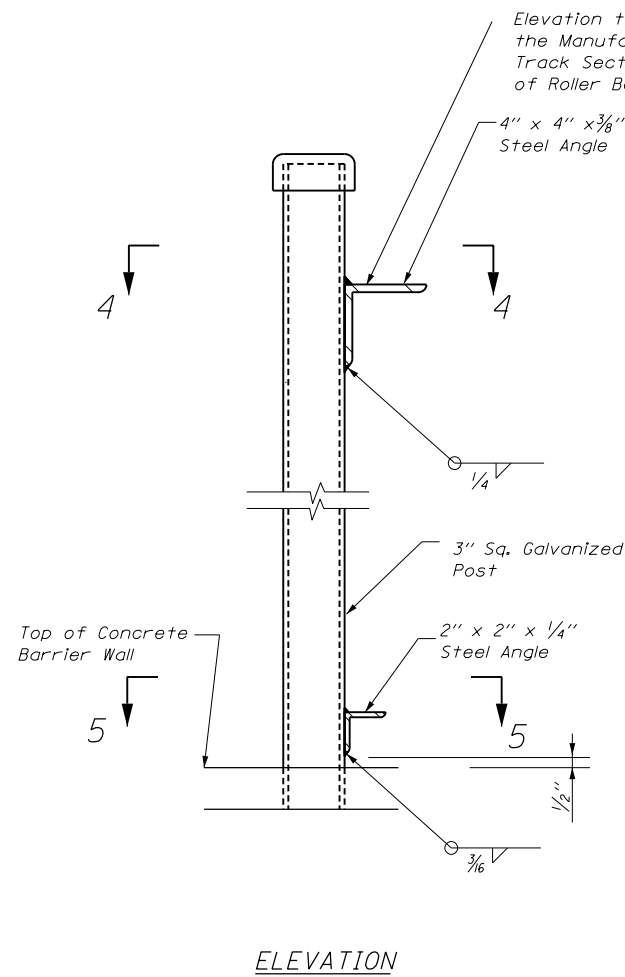
FILE PATH = \\unc\glf\9001\p\road\Projects\60288727\000_CAD\006-Roadway\p\instg\60X77-2016-03-14-60X77-FINAL_PLOT.DWG\60X77-SHT-Details-09C.dgn

NOTE: The Slide Gates Shall be of the Cantilevered Type with no Track or Support Across the Opening.

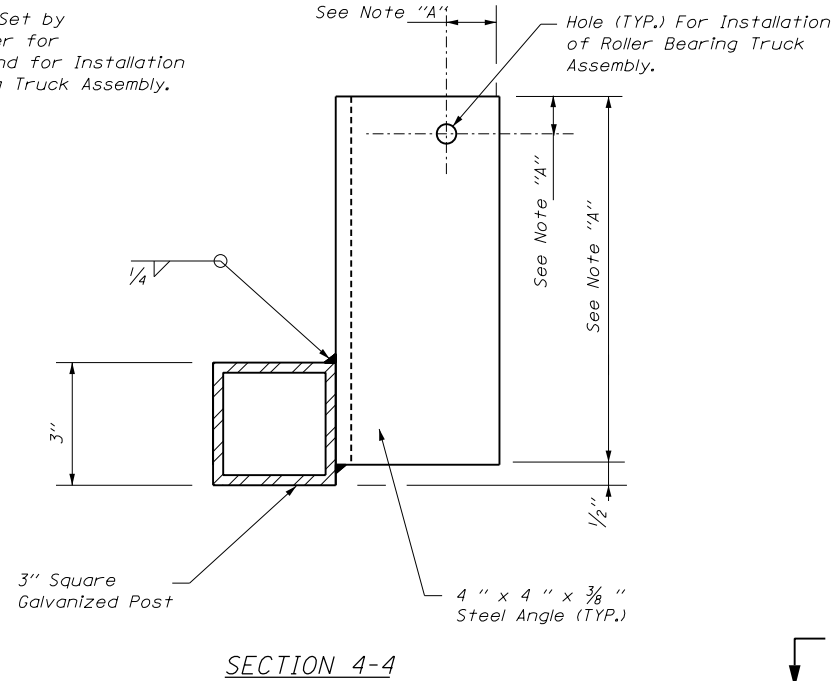
DETAIL A

For Overhang Post - As Shown
For Gate Post "A" - Opposite Hand

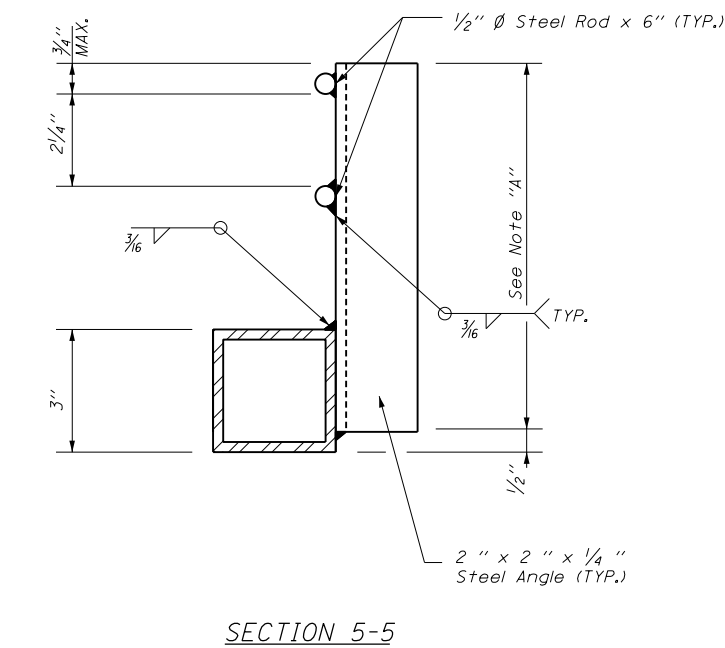
NOTE "A": The Manufacturer of the Sliding Gate Shall Determine the Length of Angles and Location of Hole for Installation of Roller Bearing Truck Assembly.



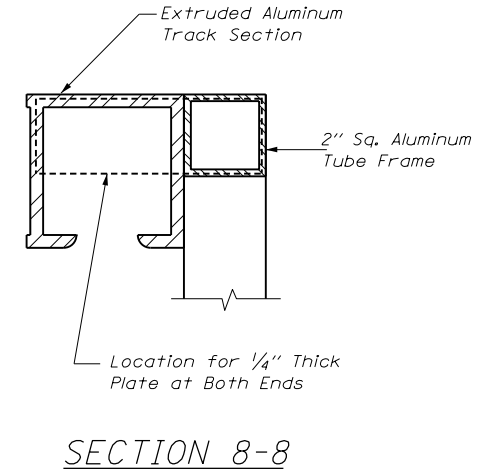
ELEVATION



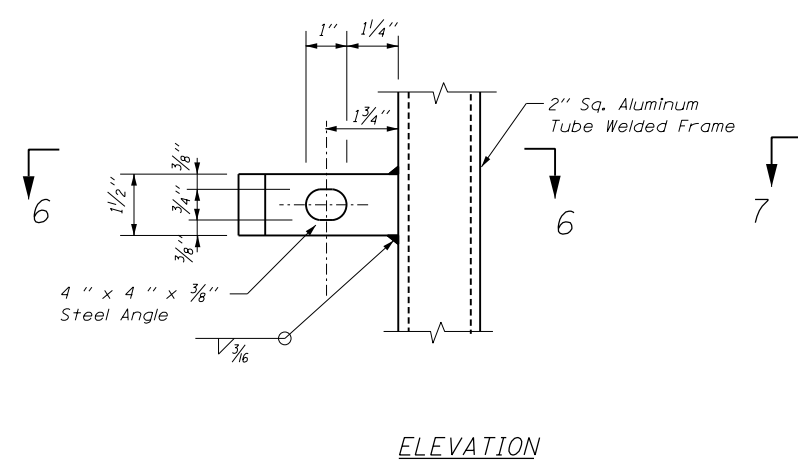
SECTION 4-4



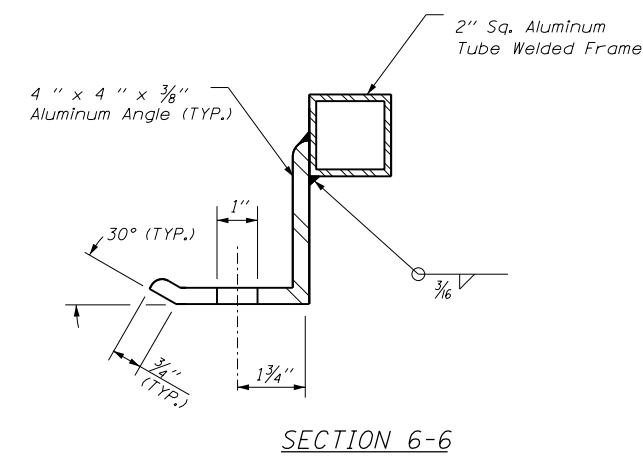
SECTION 5-5



SECTION 8-8



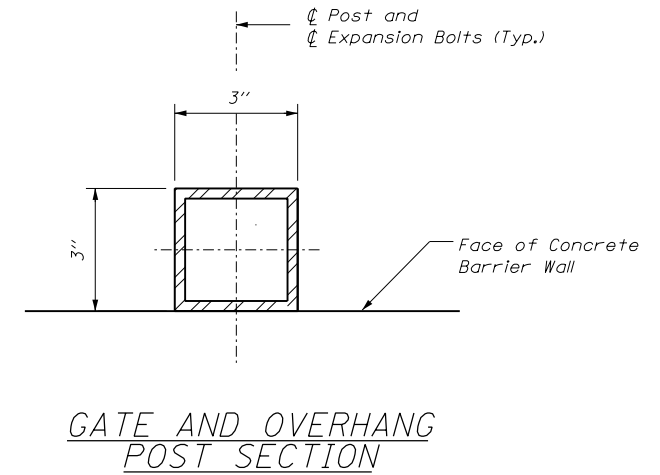
ELEVATION



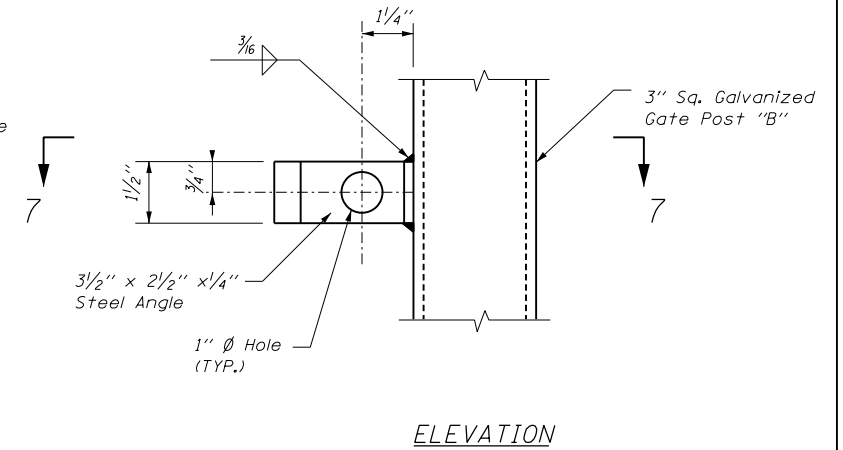
SECTION 6-6

DETAIL B

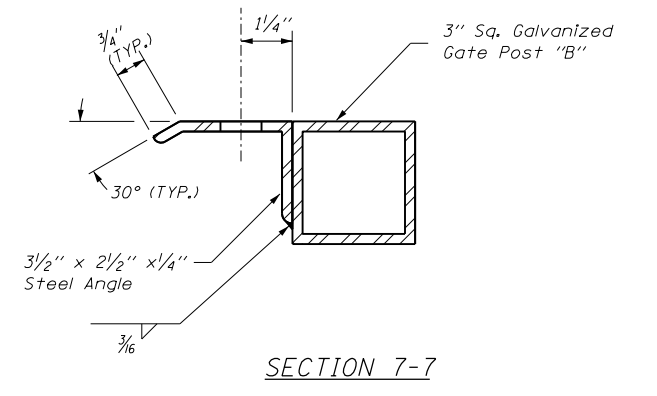
NOTE "A": The Manufacturer of the Sliding Gate Shall Set the Angle Based on the Size of the Track Frame



GATE AND OVERHANG POST SECTION



ELEVATION



SECTION 7-7

DETAIL C



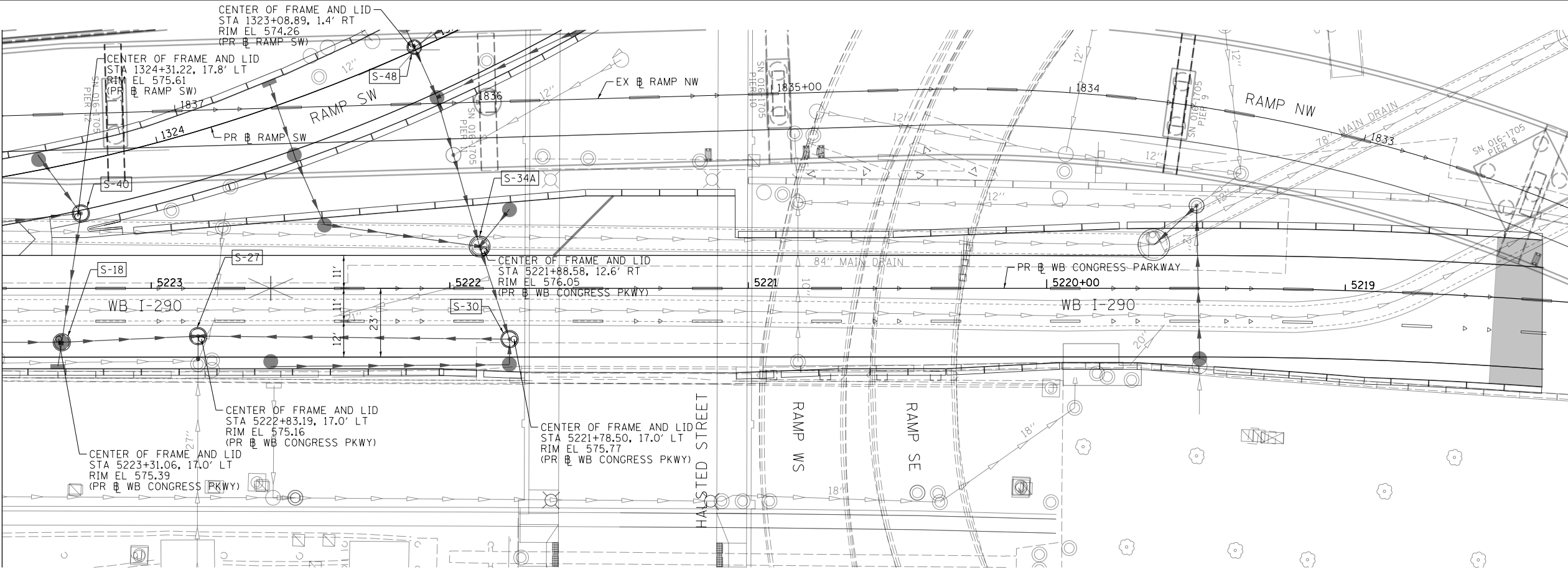
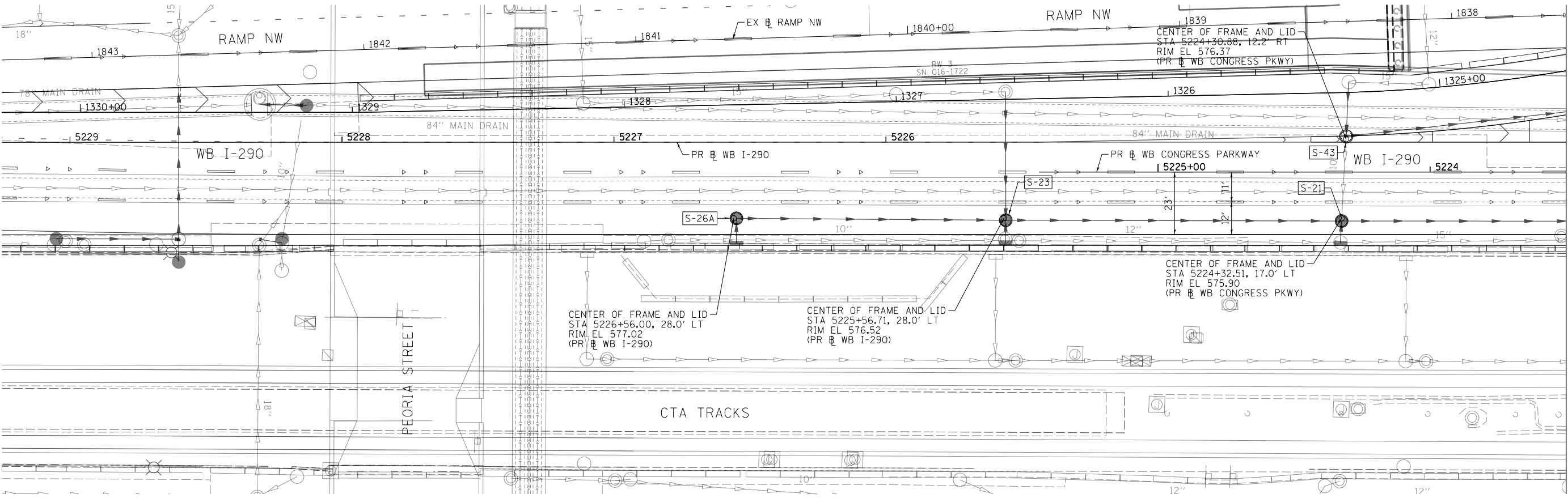
D160X77-SHT-Details-09C.dgn	DESIGNED - OPS	REVISED -
USER NAME = dshevoz	DRAWN - OPS	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - DBM	REVISED -
PLOT DATE = 3/15/2016	DATE - 3/14/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS: CTA FENCE

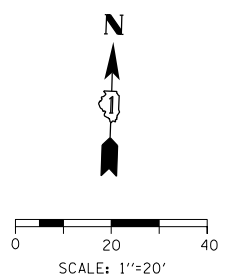
SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	272
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



SEE MATCH LINE BELOW
 STA 5223+50
 PR & WB CONGRESS PARKWAY

- NOTES:**
1. THE CONTRACTOR SHALL ROTATE THE RISER AND PLACE THE FRAME AND LID AS SHOWN FOR DRAINAGE STRUCTURES IN A TRAVEL LANE. ALL OTHER DRAINAGE STRUCTURES SHALL BE ROTATED THAT THE FRAME AND LID WILL NOT BE ON A WHEEL PATH.



FILE PATH = \\unc\gl\p\ad\Projects\602828727\020_CAD\006-Roadway\Printing\60X77-2016-03-14-60X77-FINAL_PLOT.DWG\60X77-sht-Drain-Detail-01.dgn

SEE MATCH LINE ABOVE
 STA 5223+50
 PR & WB CONGRESS PARKWAY



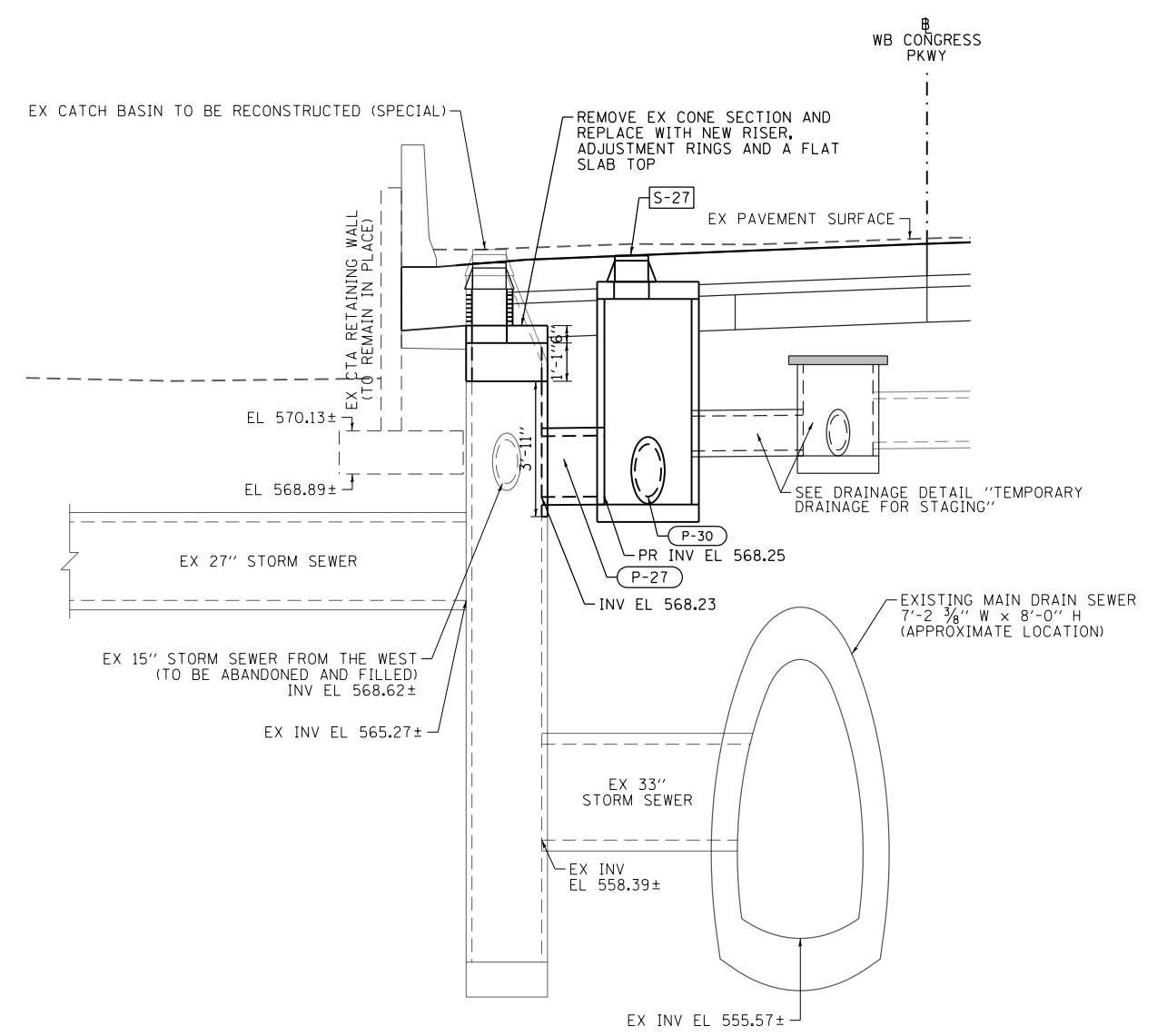
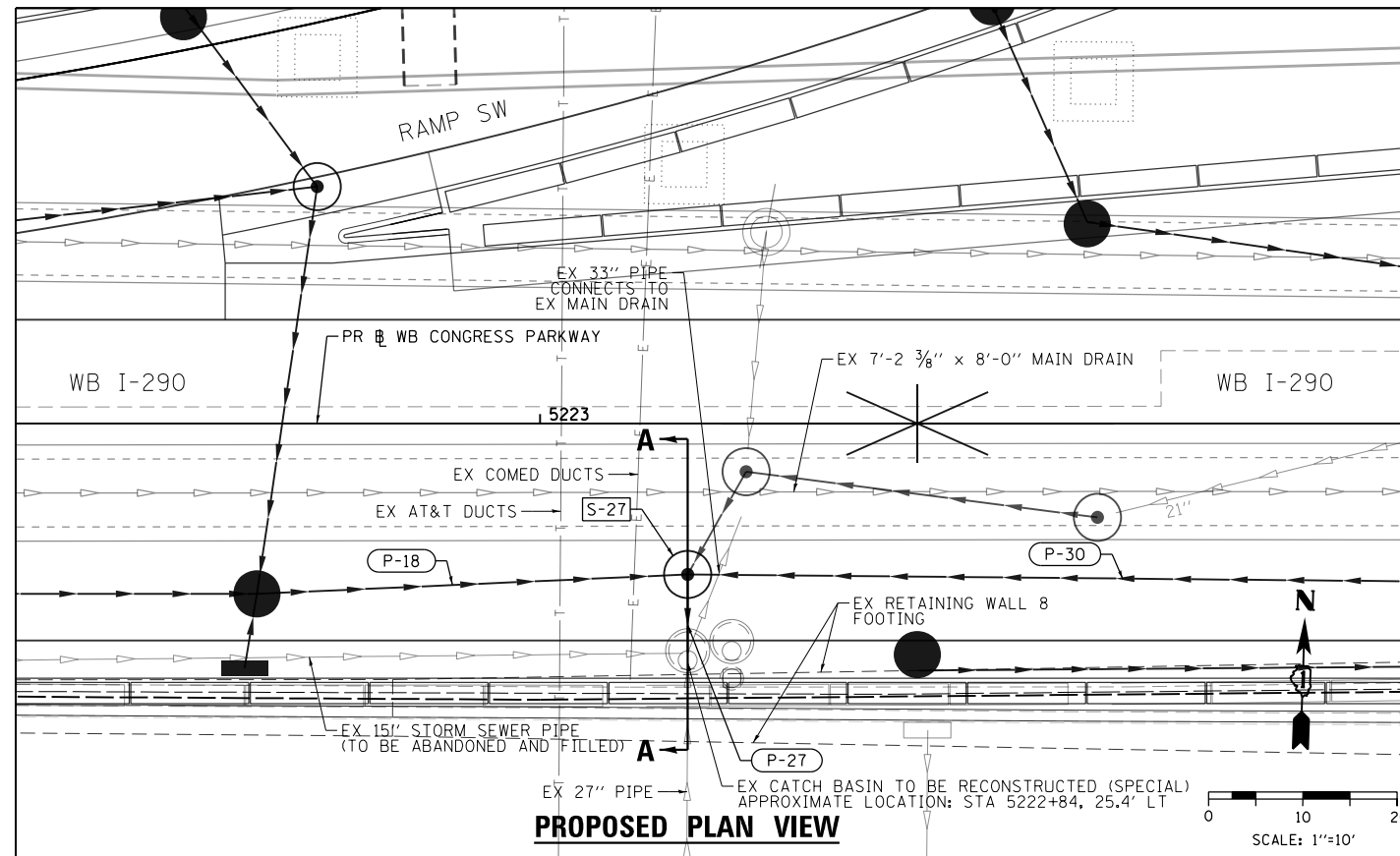
D160X77-sht-Drain-Detail-01.dgn
 USER NAME = dshevoaz
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 3/15/2016

DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - EY	REVISED -
DATE - 3/14/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
DRAINAGE STRUCTURE FRAME AND LID PLACEMENT
 SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. R.E. 90/94/290	SECTION 2014-003R&B	COUNTY COOK	TOTAL SHEETS 431	SHEET NO. 273
CONTRACT NO. 60X77				ILLINOIS FED. AID PROJECT



SECTION A-A
N.T.S.

- NOTES:**
1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTING INVERT ELEVATIONS, PIPE CONNECTIONS, AND STRUCTURE DIMENSIONS AT THIS CATCH BASIN. THE DETAILS SHOWN ARE APPROXIMATE AND ARE BASED ON RECORD DRAWINGS AND SURVEY. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE SHALL BE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. NO ADDITIONAL COMPENSATIONS WILL BE PROVIDED FOR ANY VARIATIONS.
 2. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL POSITION OF ALL EXISTING UTILITIES PRIOR TO ANY WORK.
 3. THE PROTECTION OF EXISTING STRUCTURES AND UTILITIES SHALL BE INCLUDED WITHIN THE DRAINAGE ITEMS. THE PROTECTION INCLUDES SUPPORT OF ANY EXISTING UTILITIES CROSSING THE DRAINAGE STRUCTURE AND SEWER TRENCHES. THE PROTECTION METHODS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 4. THE PROPOSED PIPE CONNECTIONS ARE INCLUDED IN THE COST OF STORM SEWERS.
 5. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTION WHEN EXCAVATING FOR THE RECONSTRUCTION OF THE CATCH BASIN. THE EXISTING CATCH BASIN IS IN VERY CLOSE PROXIMITY TO EXISTING RETAINING WALL B AS IDENTIFIED ON THE PLANS. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING RETAINING WALL SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE AND TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

FILE PATH = p:\617479-PMINT\secomon\line\local\AECOM\0502_MN\Documents\01_Americas\Transportation\60269938_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-sht-Drain-Detail-02



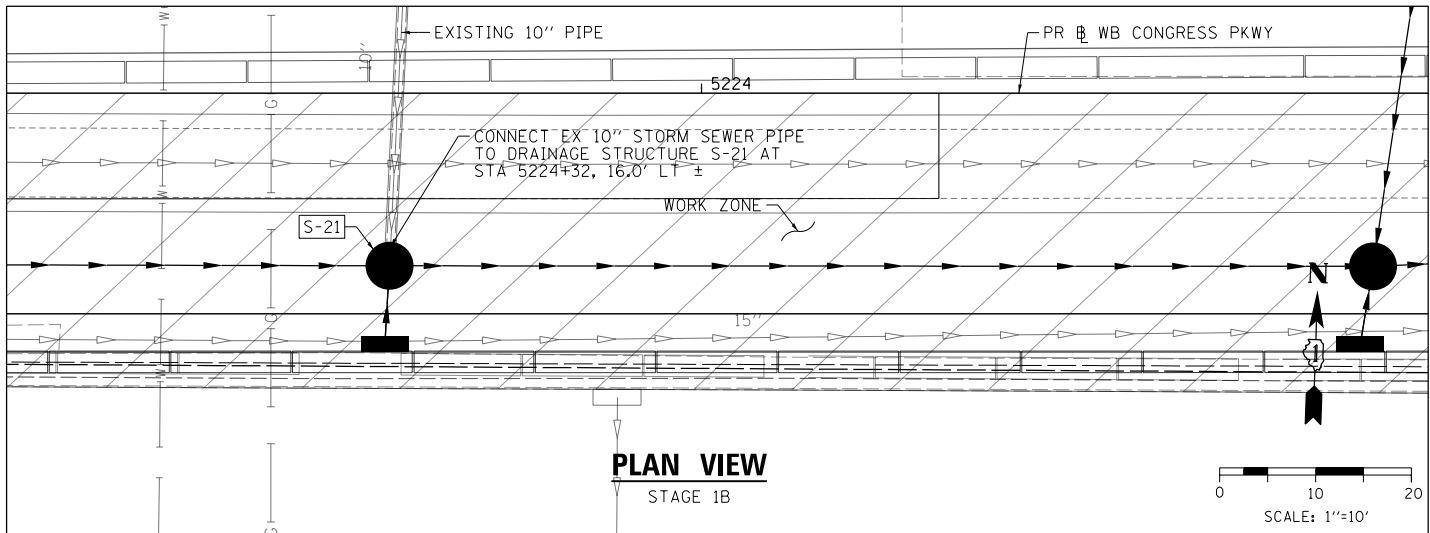
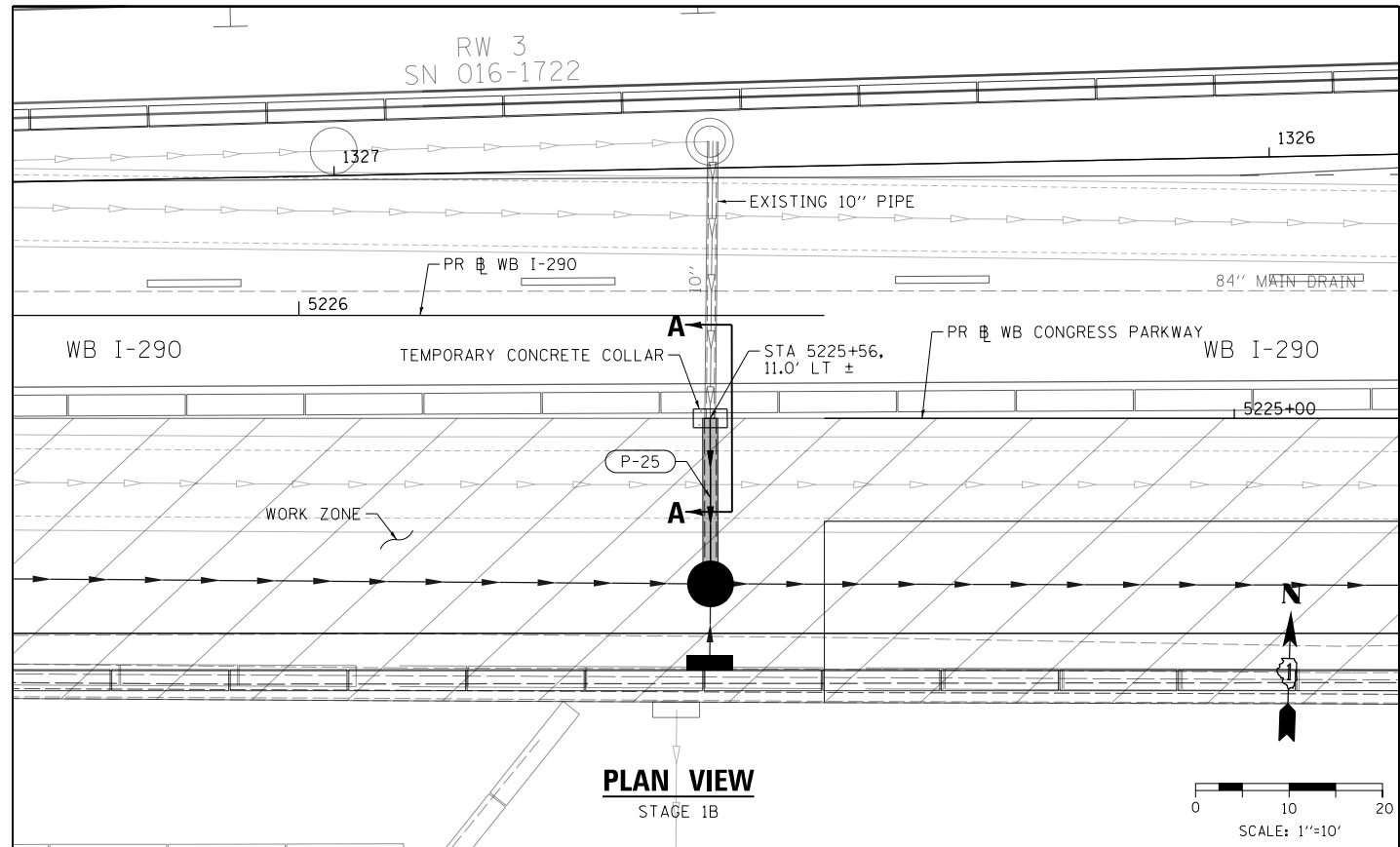
D160X77-sht-Drain-Detail-02
 USER NAME = chitue
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 4/28/2016

DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - EEE	REVISED -
DATE - 4/27/2016	REVISED -

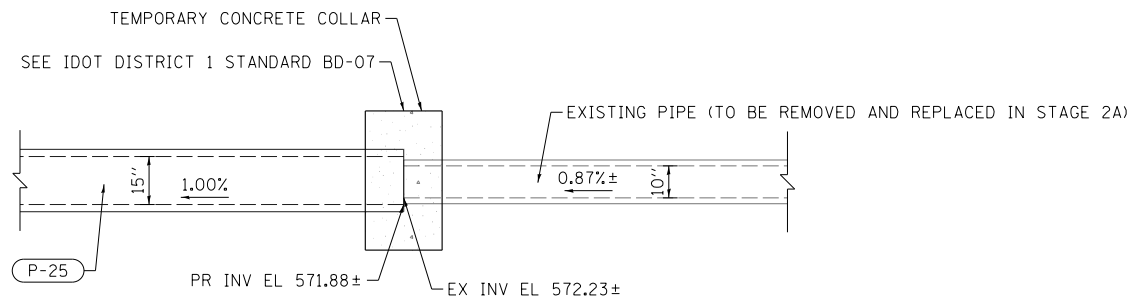
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
EXISTING CATCH BASIN TO BE RECONSTRUCTED (SPECIAL)
 SCALE: 1" = 10' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	274
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



NOTES:
1. THE COST OF CONNECTING THE EXISTING STORM SEWER PIPE IS INCLUDED IN THE COST OF THE CATCH BASIN.



NOTES:
1. THE COST FOR PROVIDING AND FABRICATING A TEMPORARY CONCRETE COLLAR TO TEMPORARILY CONNECT THE EXISTING PIPE TO THE PROPOSED PIPE FOR MAINTAINING FLOW DURING STAGING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWER ITEM.



D160X77-sht-Drain-Detail-03.dgn
USER NAME = dshevoz
PLOT SCALE = 20.0000' / in.
PLOT DATE = 3/15/2016

DESIGNED - AFC
DRAWN - AFC
CHECKED - EEY
DATE - 3/14/2016

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

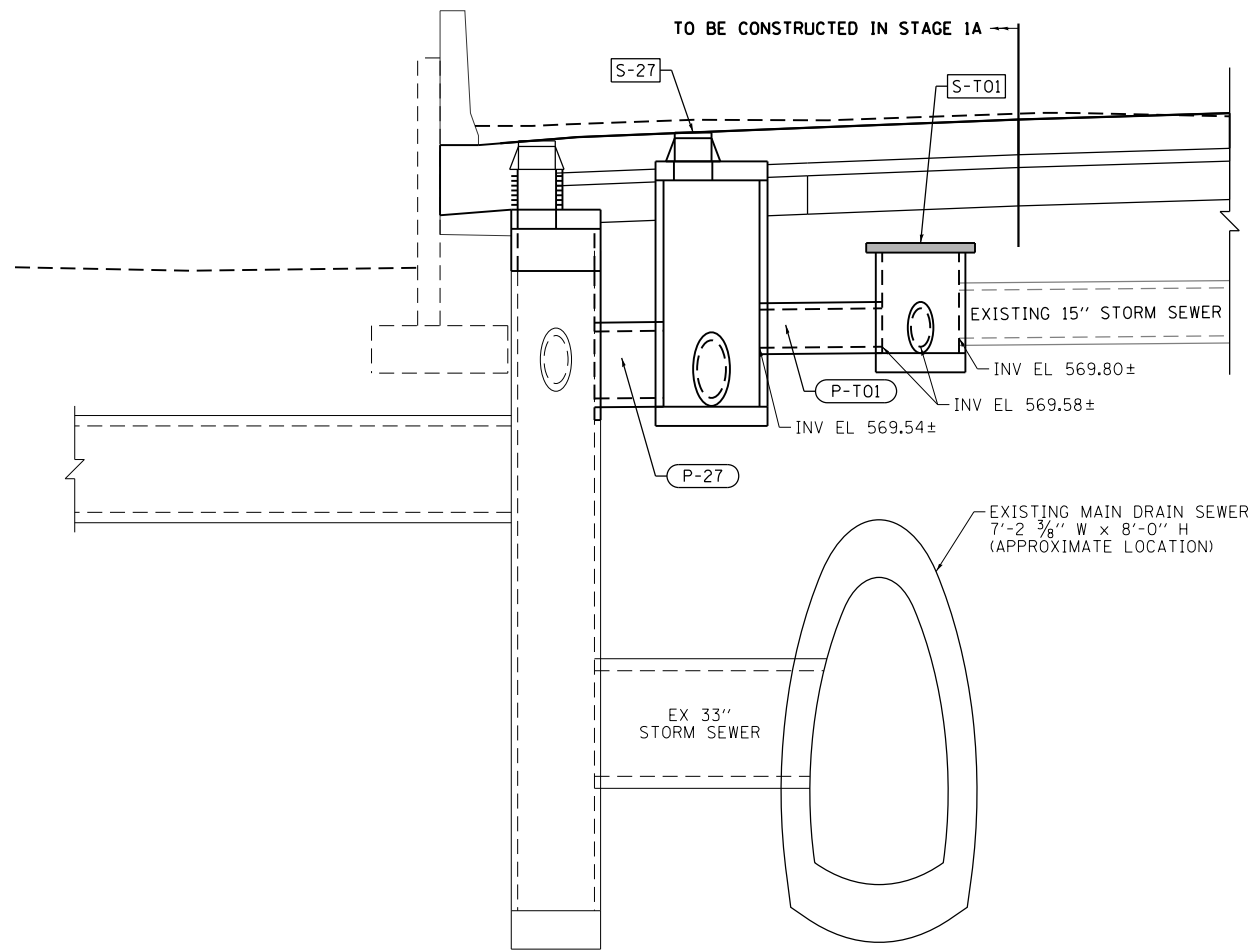
DRAINAGE DETAILS
TEMPORARY DRAINAGE FOR STAGING

SCALE: 1" = 10' SHEET 1 OF 2 SHEETS STA. TO STA.

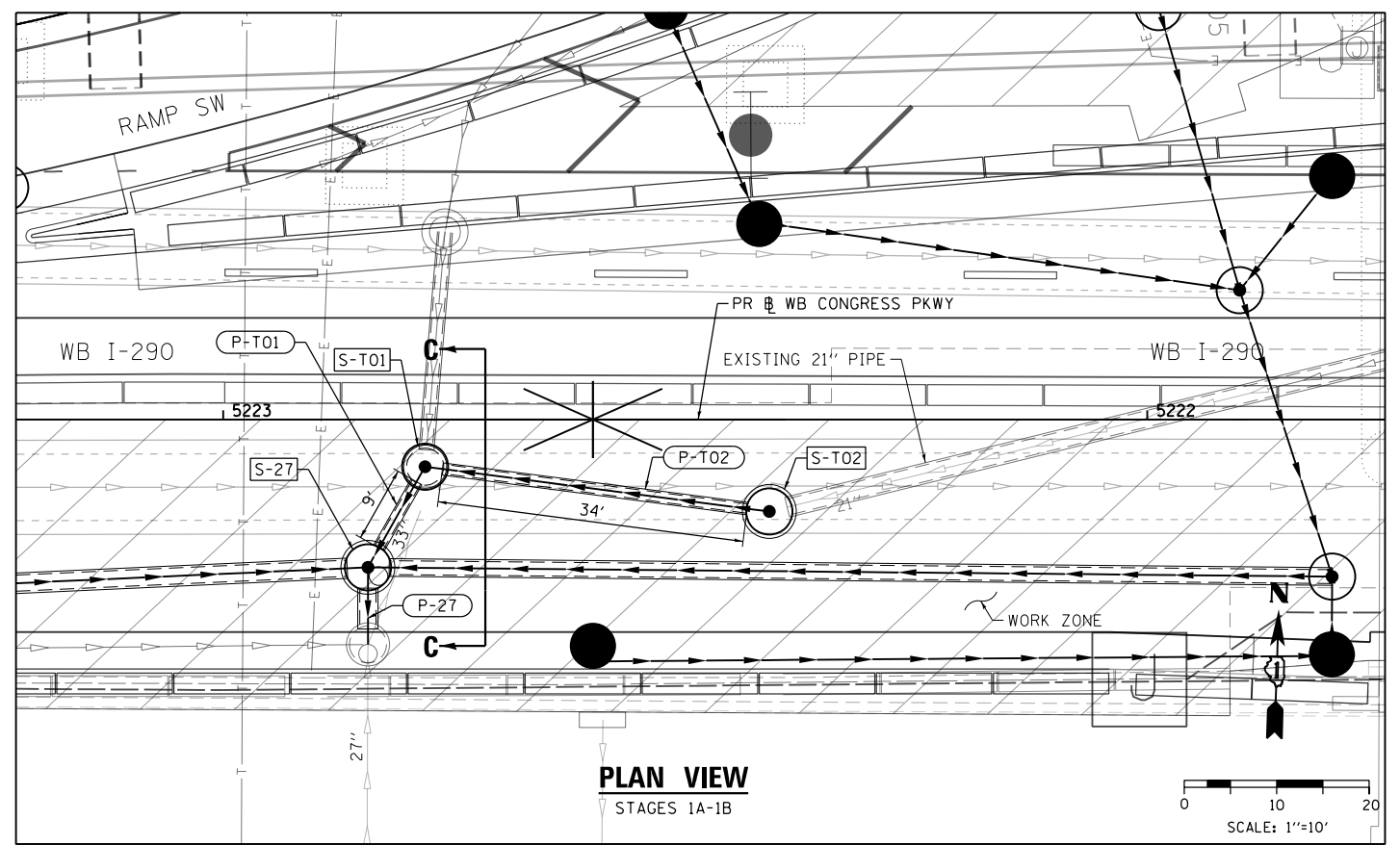
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	275
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

FILE PATH = \\unc\glf\600\p\road\Projects\60288727\000_CAD\006-Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT.D160X77-sht-Drain-Detail-03.dgn

FILE PATH = p:\617479-PMINT\secomon\line\local\AECOM\0502_MN\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\000_CAD\006_Roadway\Sheets\60X77_Contract\0160X77-sht-Drain-Detail-04



SECTION C-C
N.T.S.



PLAN VIEW
STAGES 1A-1B

SCALE: 1"=10'

DRAINAGE STRUCTURE SCHEDULE FOR STAGING

STRUCTURE	LOCATION	OFFSET	OFFSET LOCATION (EDGE OF SHOULDER OR CENTER OF STRUCTURE)	RIM (ELEV)	N. INVERT (ELEV)	W. INVERT (ELEV)	E. INVERT (ELEV)	S. INVERT (ELEV)	NE. INVERT (ELEV)	NW. INVERT (ELEV)	SE. INVERT (ELEV)	SW. INVERT (ELEV)	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID
WB CONGRESS PARKWAY														
S-T01	5222+78.16	5.1' LT	COS	575.37 ±							569.58 ±	569.58 ±	1	
S-T02	5222+40.91	10.0' LT	COS	575.28 ±					570.07 ±	569.75 ±				1
TOTALS													1	1

1. PROPOSED RIM ELEVATIONS ARE SHOWN FOR INFORMATION ONLY. SEE DETAILS AND NOTE 2.

DRAINAGE PIPE SCHEDULE FOR STAGING

PIPE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM INVERT ELEVATION	DOWNSTREAM INVERT ELEVATION	PIPE SLOPE (%)	STORM SEWERS, CLASS A, TYPE 2	TRENCH BACKFILL
						12"	
						FOOT	CU YD
WB CONGRESS PARKWAY							
P-T01	S-T01	S-27 (FST)	569.58 ±	569.54 ±	0.50%	8	3.8
P-T02	S-T02	S-T01	569.75 ±	569.58 ±	0.50%	34	15.8
TOTAL						42	19.6
ROUNDED TOTAL						42	19.6

NOTES:

- THE CONTRACTOR SHALL VERIFY THE EXISTING INVERT ELEVATIONS CONNECTING TO DRAINAGE STRUCTURES S-T01 AND S-T02 PRIOR TO FABRICATION.
- A STEEL PLATE TOP SHALL BE PROVIDED AND PLACED AT LEAST 3 INCHES BELOW THE EARTH SUBGRADE OF THE PROPOSED IMPROVEMENT. THE DRAINAGE STRUCTURE SHALL BE LEFT IN PLACE TO MAINTAIN FLOW DURING STAGING.



D160X77-sht-Drain-Detail-04
 USER NAME = chhua
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 4/27/2016

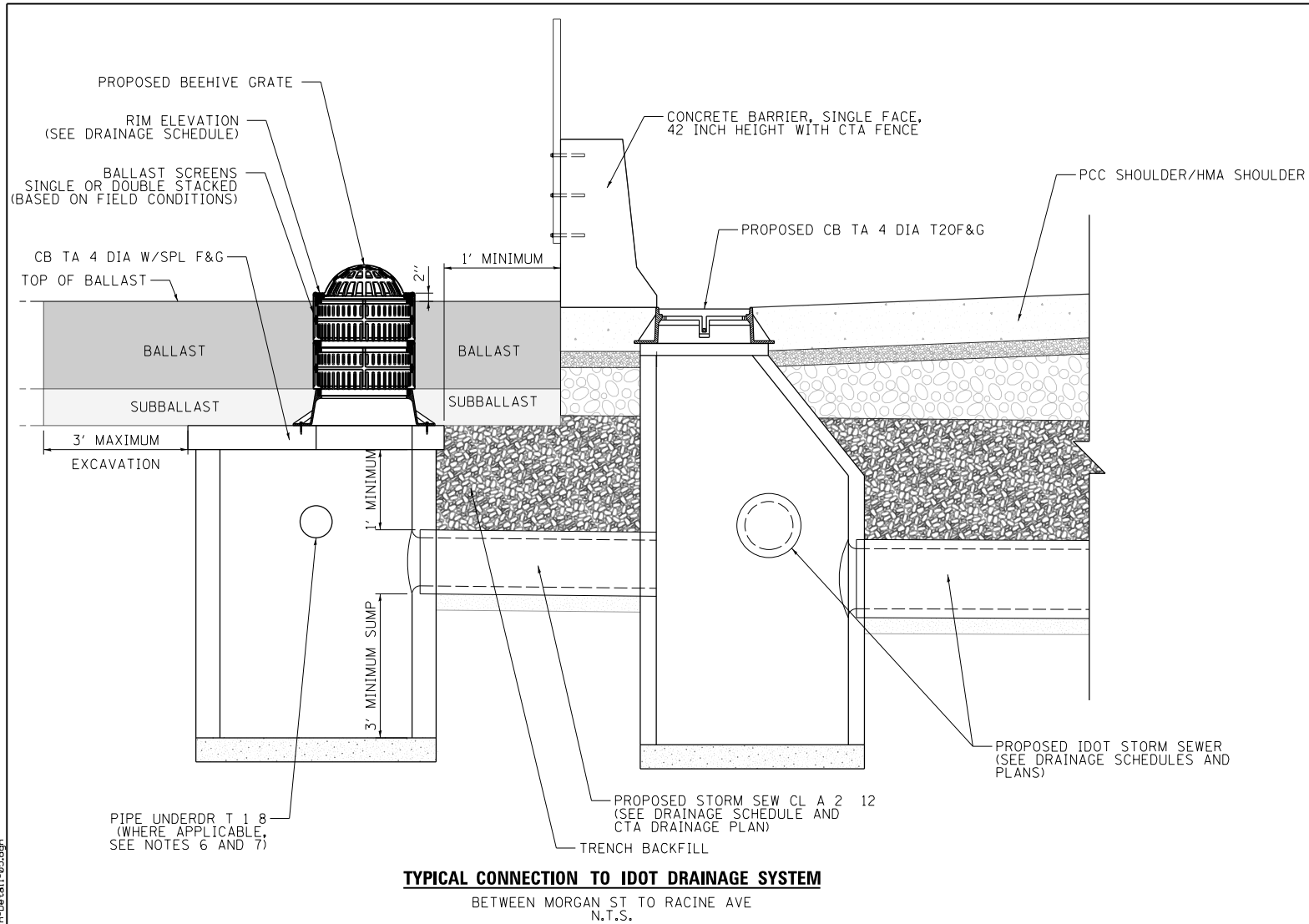
DESIGNED - AFC
 DRAWN - AFC
 CHECKED - EEE
 DATE - 4/27/2016

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

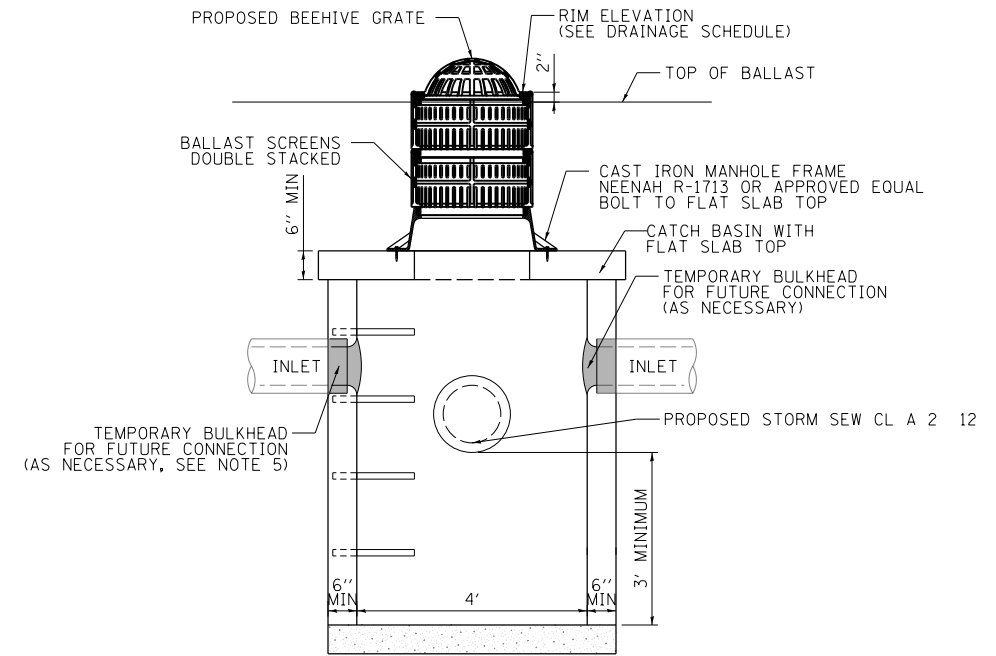
DRAINAGE DETAILS
TEMPORARY DRAINAGE FOR STAGING

SCALE: 1" = 10' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	276
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				



TYPICAL CONNECTION TO IDOT DRAINAGE SYSTEM
BETWEEN MORGAN ST TO RACINE AVE
N.T.S.

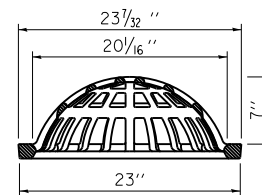


CATCH BASIN DETAIL (WITH FLAT SLAB TOP)
ELEVATION VIEW

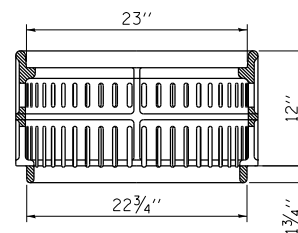
PAID FOR AS CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE
N.T.S.

NOTES:

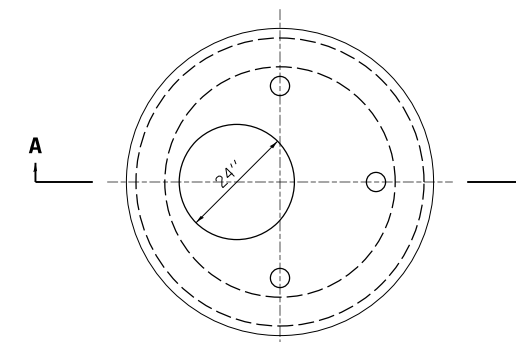
- ALL CATCH BASINS WALLS SHALL BE A MINIMUM OF 6-INCH THICKNESS.
- FLAT SLAB TOPS SHALL BE USED FOR CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE.
- ADJUSTMENT RINGS SHALL BE PROVIDED WHERE NECESSARY.
- BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR.
- THE PROPOSED BEEHIVE GRATE, BALLAST SCREENS AND CAST IRON MANHOLE FRAME ARE ALL INCLUDED IN THE COST OF CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE.
- THE CONTRACTOR SHALL VERIFY IF EXISTING PIPE UNDERDRAINS ARE LOCATED WITHIN THE AREA BEING EXCAVATED FOR THE INSTALLATION OF THE PROPOSED CATCH BASIN. IF IT IS DETERMINED THERE ARE UNDERDRAINS LOCATED WITHIN THE AREA, THE CONTRACTOR SHALL COORDINATE WITH CHICAGO TRANSIT AUTHORITY (CTA). A NOMINAL QUANTITY OF 100 FEET OF PIPE UNDERDRAINS, TYPE 1, 8" HAVE BEEN INCLUDED IN THE PLANS.
- THE CONTRACTOR SHALL COORDINATE THE FUTURE PROPOSED PIPE UNDERDRAIN WITH THE CHICAGO TRANSIT AUTHORITY (CTA) PRIOR TO ANY FABRICATION OF THE DRAINAGE STRUCTURE. THE PRE-FABRICATED HOLE SHALL BE TEMPORARILY BULKHEAD FOR THE FUTURE CONNECTIONS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.



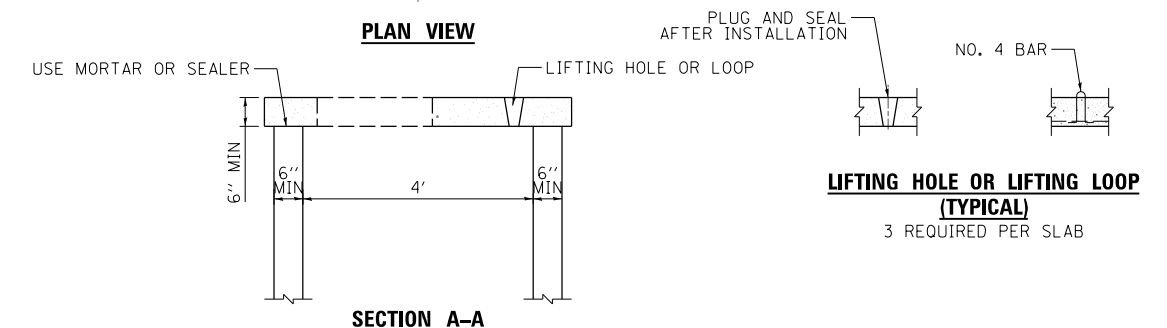
NEENAH FOUNDRY OR EQUAL BEEHIVE GRATE



NEENAH FOUNDRY OR EQUAL BALLAST SCREEN



PLAN VIEW



SECTION A-A

PRECAST REINFORCED CONCRETE FLAT SLAB TOP



D160X77-sht-Drain-Detail-05.dgn
USER NAME = dshevoz
PLOT SCALE = 10.0000 ' / 1"
PLOT DATE = 3/15/2016

DESIGNED - AFC
DRAWN - AFC
CHECKED - EEY/MSC
DATE - 3/14/2016

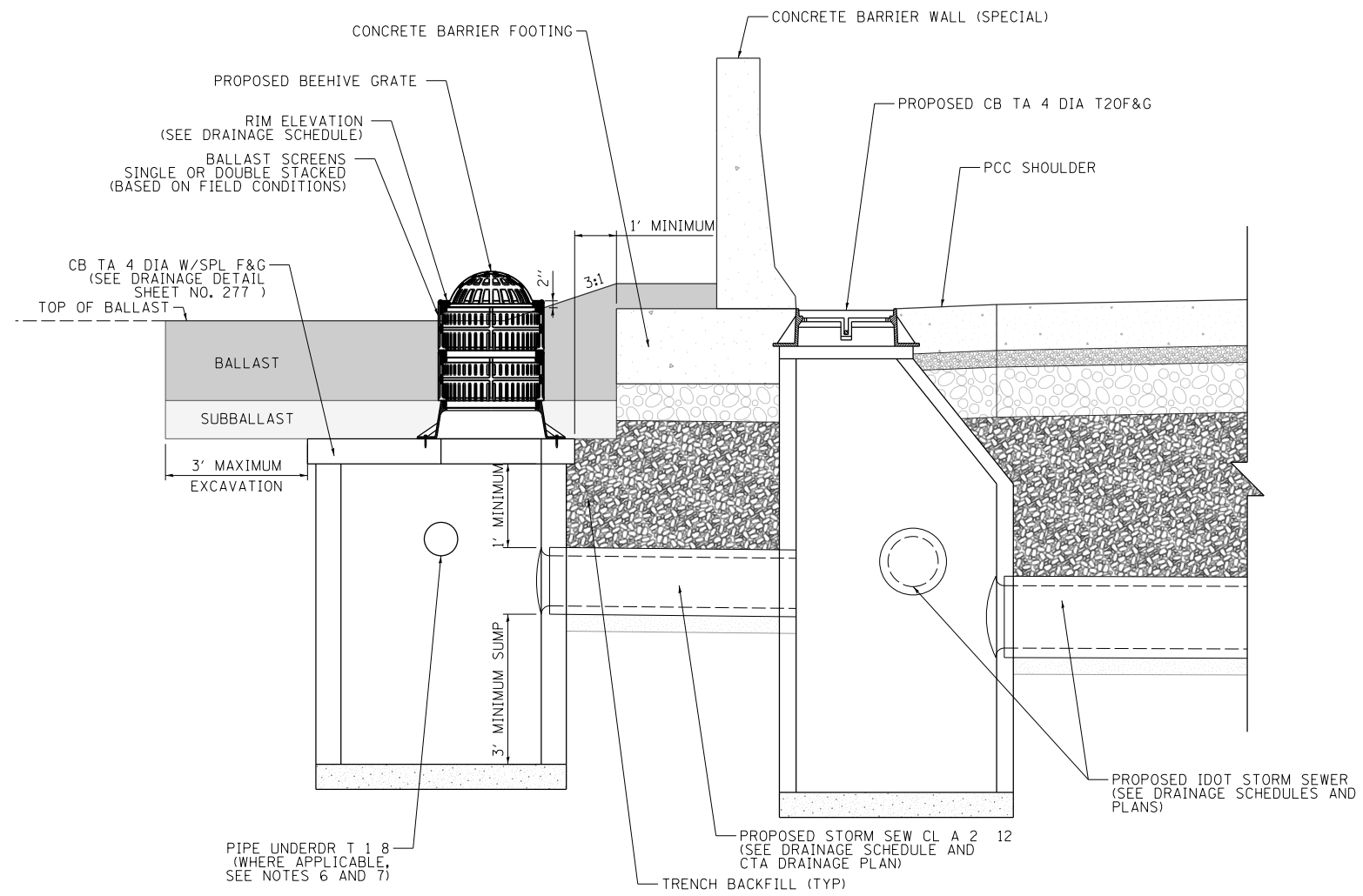
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE
SCALE: 1" = 10' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	277
				CONTRACT NO. 60X77
ILLINOIS FED. AID PROJECT				

FILE PATH = \\unc\glf\001\p\ad\Projects\60282877-000_CAD\006-Roadway\p\insting\60X77-2016-03-14-60X77-FINAL_PLOT.D160X77-sht-Drain-Detail-05.dgn



TYPICAL CONNECTION TO IDOT DRAINAGE SYSTEM

BETWEEN PEORIA TO MORGAN ST
N.T.S.

NOTES:

1. ALL CATCH BASINS WALLS SHALL BE A MINIMUM OF 6-INCH THICKNESS.
2. FLAT SLAB TOPS SHALL BE USED FOR CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE.
3. ADJUSTMENT RINGS SHALL BE PROVIDED WHERE NECESSARY.
4. BOTTOM SLABS MAY BE CONNECTED TO THE RISER AS DETERMINED BY THE FABRICATOR.
5. THE PROPOSED BEEHIVE GRATE, BALLAST SCREENS AND CAST IRON MANHOLE FRAME ARE ALL INCLUDED IN THE COST OF CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE.
6. THE CONTRACTOR SHALL VERIFY IF EXISTING PIPE UNDERDRAINS ARE LOCATED WITHIN THE AREA BEING EXCAVATED FOR THE INSTALLATION OF THE PROPOSED CATCH BASIN. IF IT IS DETERMINED THERE ARE UNDERDRAINS LOCATED WITHIN THE AREA, THE CONTRACTOR SHALL COORDINATE WITH CHICAGO TRANSIT AUTHORITY (CTA). A NOMINAL QUANTITY OF 100 FEET OF PIPE UNDERDRAINS, TYPE 1, 8" HAVE BEEN INCLUDED IN THE PLANS.
7. THE CONTRACTOR SHALL COORDINATE THE FUTURE PROPOSED PIPE UNDERDRAIN WITH THE CHICAGO TRANSIT AUTHORITY (CTA) PRIOR TO ANY FABRICATION OF THE DRAINAGE STRUCTURE. THE PRE-FABRICATED HOLE SHALL BE TEMPORARILY BULKHEAD FOR THE FUTURE CONNECTIONS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
8. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

FILE PATH = \\unc\gl\p\proj\Projects\60282877\000_CAD\006_Roadway\p\insting\60282877\2016-03-14-60X77-FINAL_PLOT.DWG\60X77-sht-Drain-Detail-06.dgn



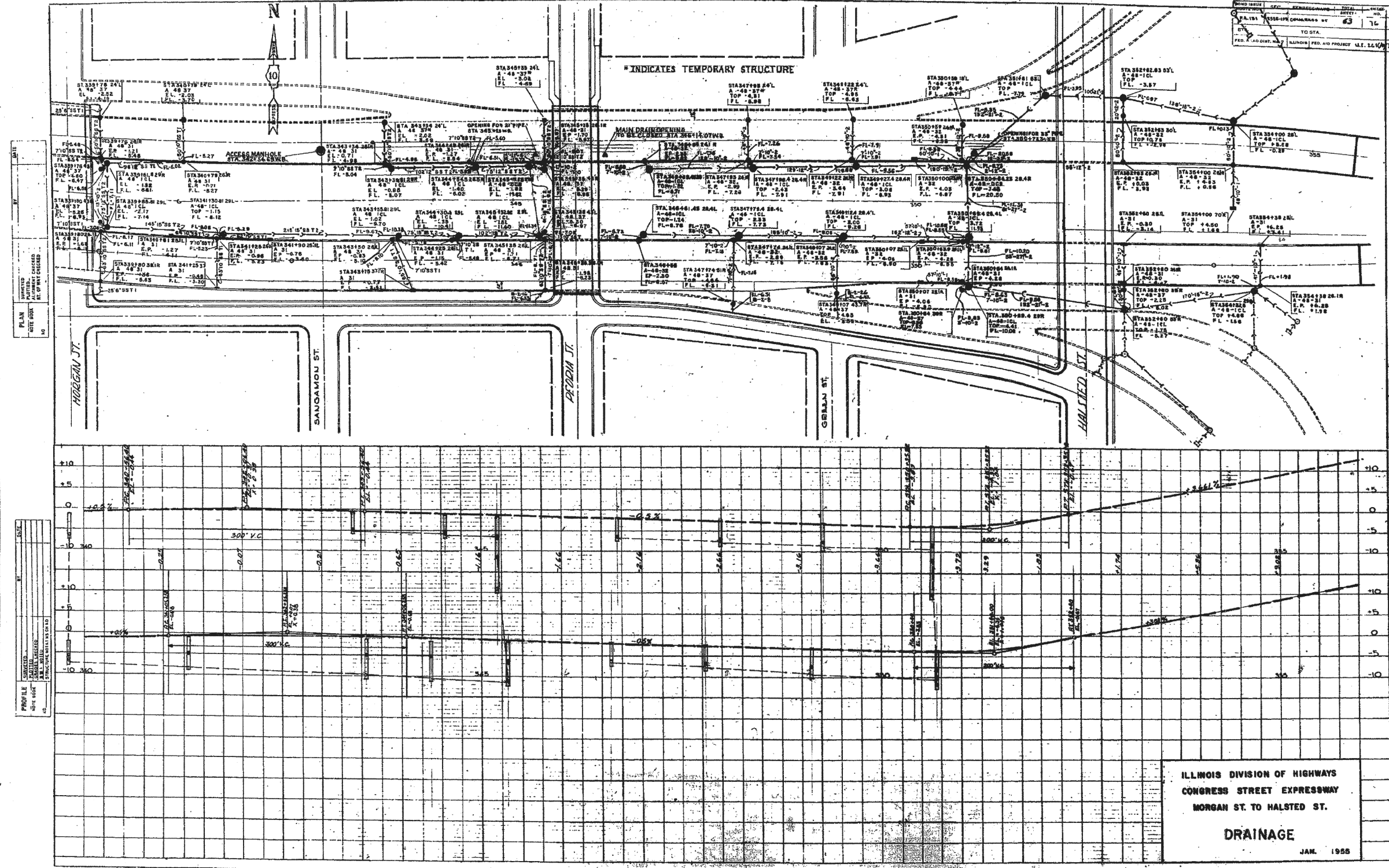
D160X77-sht-Drain-Detail-06.dgn	DESIGNED - AFC	REVISED -
USER NAME = dshevoz	DRAWN - AFC	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - EBY/MSC	REVISED -
PLOT DATE = 3/15/2016	DATE - 3/14/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE DETAILS	
CATCH BASINS, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE	
SCALE: 1" = 10'	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	278
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



FILE PATH = \\netlog1\6001\prod\Projects\60288727\000_CAD\006-Roadway\p-inting\60x77-2016-03-14-60x77-FINAL_PLOT.DWG\77-SHT-EX-DRAIN-01.dgn



D160X77-SHT-EX-DRAIN-01.dgn
 USER NAME = dshevoaz
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 3/15/2016

DESIGNED -
 DRAWN -
 CHECKED -
 DATE - 3/14/2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

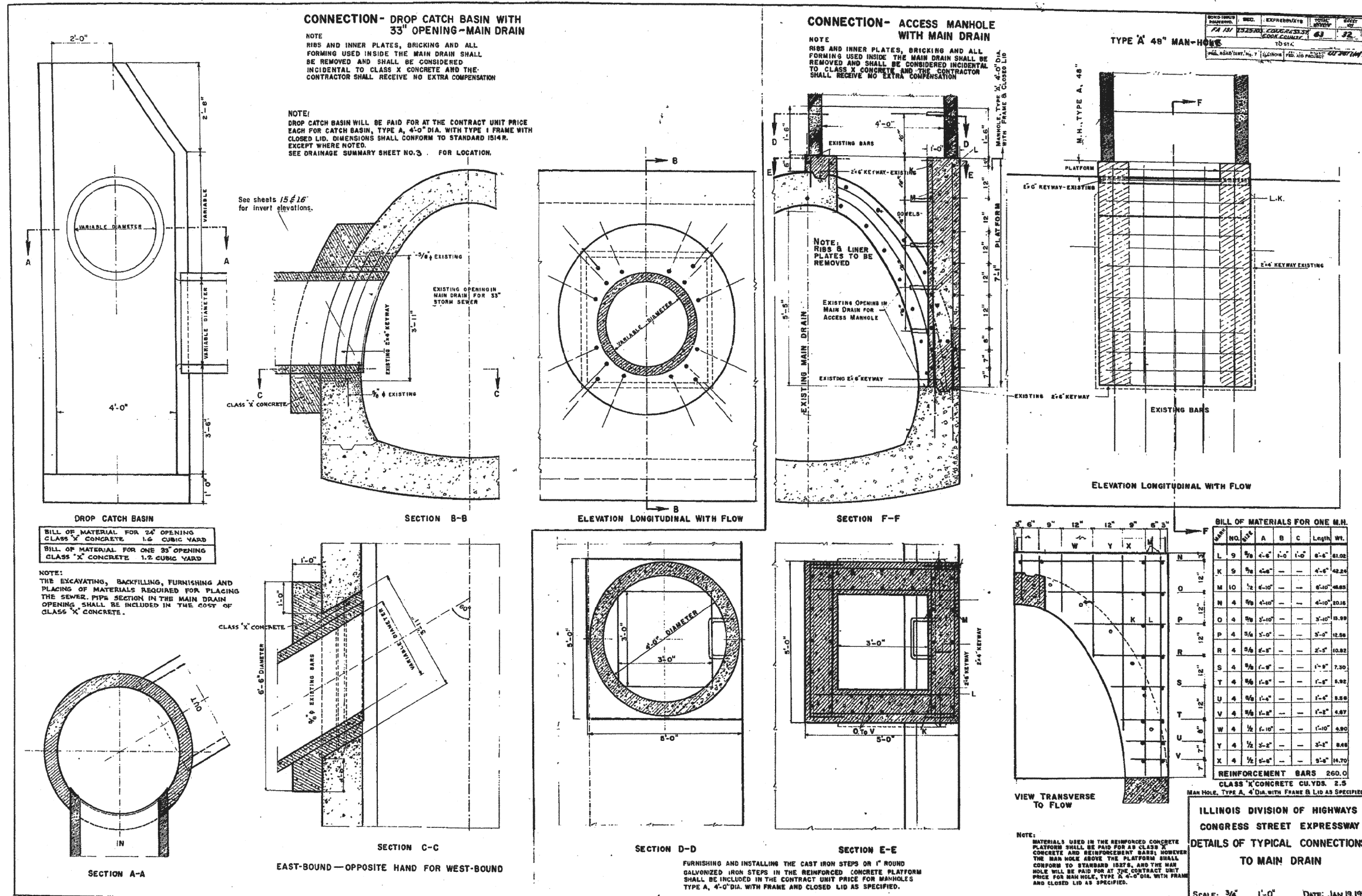
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN AND DETAIL

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-003R&B	COUNTY COOK	TOTAL SHEETS 431	SHEET NO. 279
CONTRACT NO. 60X77				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



FILE PATH = \\unc\gl\p\ad\Projects\6028877\000_CAD\006_Roadway\Printing\6028877_2016_03-14-6028877_FINAL_PLOT_016028877-SHT-EX-DRAIN-02.dgn



D160X77-SHT-EX-DRAIN-02.dgn
USER NAME = dshevoz
PLOT SCALE = 100.0000' / in.
PLOT DATE = 3/15/2016

DESIGNED -
DRAWN -
CHECKED -
DATE - 3/14/2016

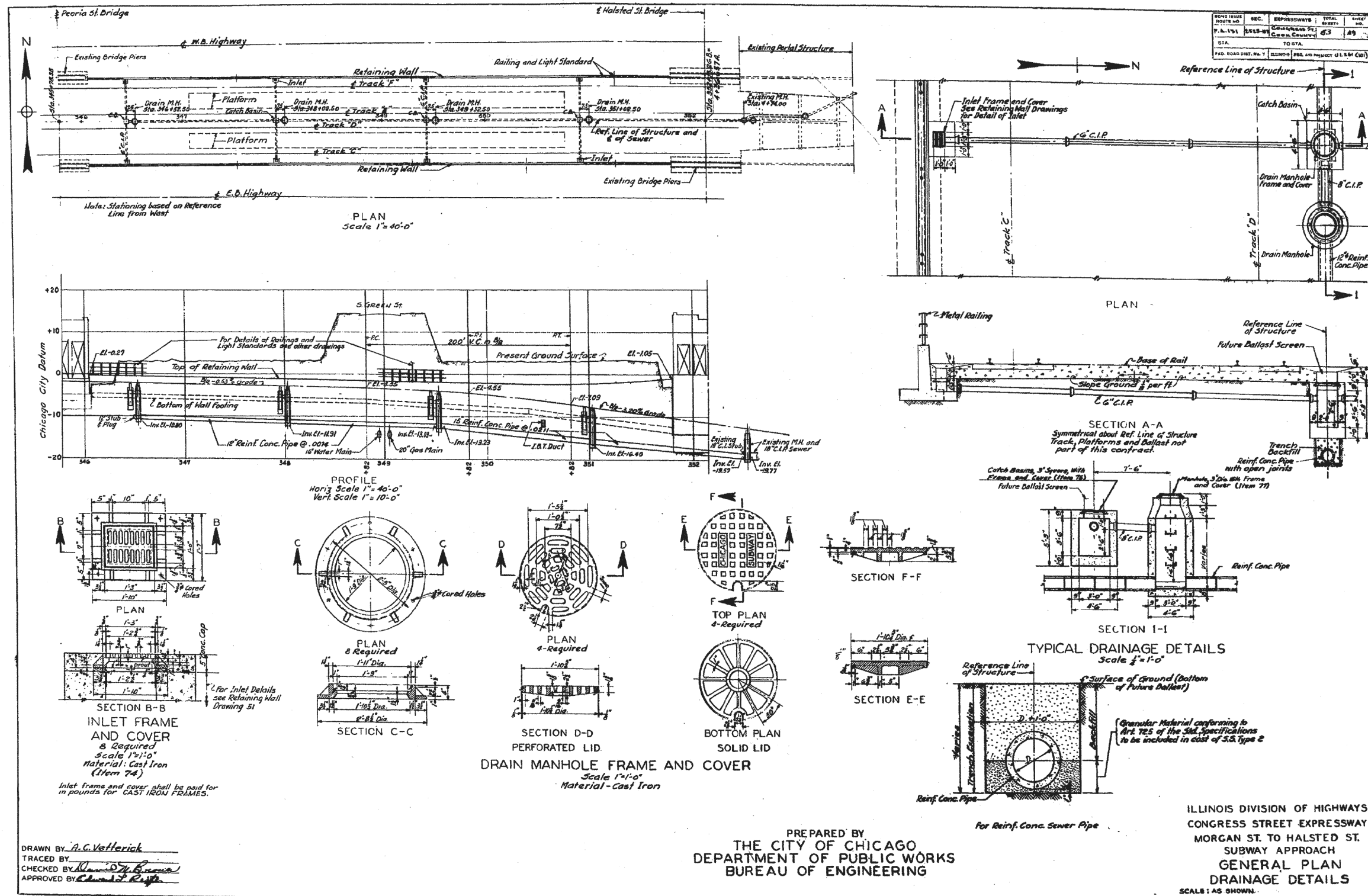
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN AND DETAIL
SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	280
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



FILE PATH = \\unetg1\6001\prod\prod\Projects\602877\2016-03-14-60X77-FINAL_PLOT_0160X77-SHT-EX-RW8-01.dgn



D160X77-SHT-EX-RW8-01.dgn
USER NAME = dshevoz
PLOT SCALE = 100.0000 / 1"
PLOT DATE = 3/15/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 3/14/2016	REVISED -

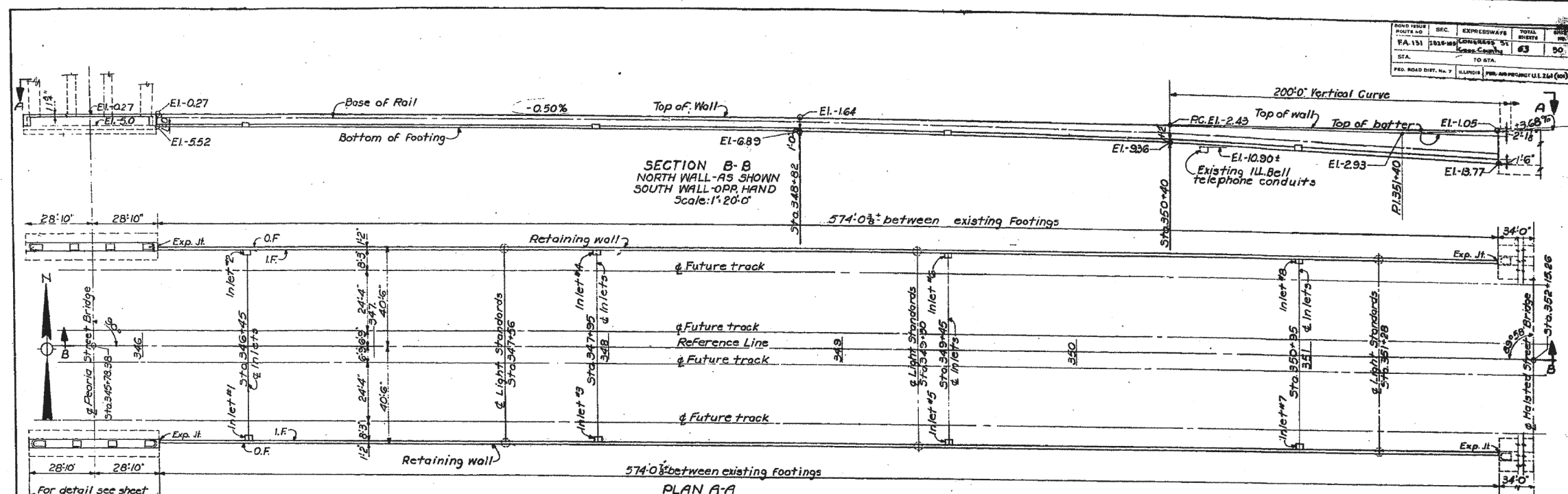
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RETAINING WALL 8 PLAN

SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	281
CONTRACT NO. 60X77			ILLINOIS FED. AID PROJECT	

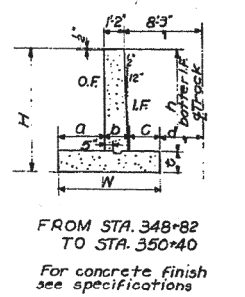
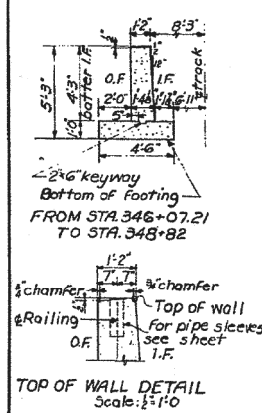
FOR INFORMATION ONLY



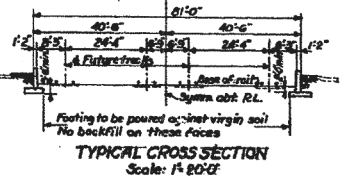
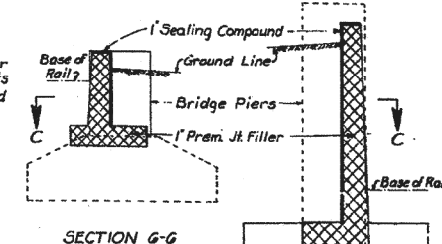
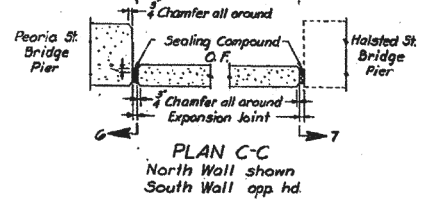
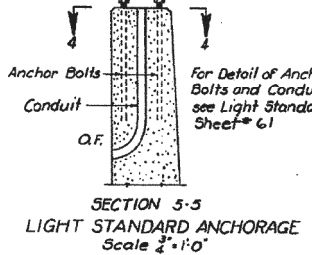
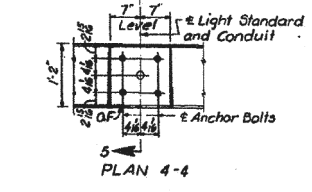
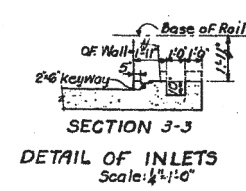
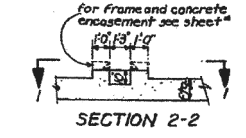
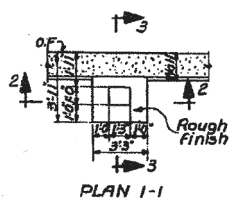
ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 63	SHEET NO. 50
PROJECT NO. 151	CONGRESS ST	TO STA.	
SECTION	EXPRESSWAY	TOTAL SHEETS	

SECTION B-B
NORTH WALL-AS SHOWN
SOUTH WALL-OPP. HAND
Scale: 1"=20'-0"

PLAN A-A
Scale: 1"=20'-0"



STATION	h	c	H	a	b	c	W	d
348+82	15'-0"	4'-3"	5'-3"	2'-0"	1'-4 1/2"	1'-1 1/2"	4'-6"	6'-11"
350+40	15'-2"	5'-9"	6'-11 1/2"	2'-10"	1'-4 1/2"	1'-9 1/2"	6'-0"	6'-3"
351+81.26	15'-6"	9'-1 1/2"	12'-8 1/2"	5'-10"	1'-6 1/2"	3'-7 1/2"	11'-0"	4'-3"



Note:
General Plan - see sheet 49
Reinforcement - see sheet 51
Railing - see sheets 52 & 53

DESIGNED BY P. Solheim
DRAWN BY W. Potala
CHECKED BY J. Piotrowicz
APPROVED BY [Signature]

PREPARED BY
THE CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ILLINOIS DIVISION OF HIGHWAYS
CONGRESS STREET EXPRESSWAY
MORGAN ST. TO HALSTED ST.
SUBWAY APPROACH
RETAINING WALLS
PLAN AND SECTIONS
SCALE: AS SHOWN

FILE PATH: \\unc\glf\6001\p\road\Projects\60288727-000_CAD_006-Roadway\p\insting\60x77-2016-03-14-60x77-FINAL_PLOT_0160x77-SHT-EX-RW-02.dgn



D160x77-SHT-EX-RW-02.dgn
USER NAME = dshevoz
PLOT SCALE = 100.0000' / in.
PLOT DATE = 3/15/2016

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	3/14/2016	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RETAINING WALL 8 PLAN

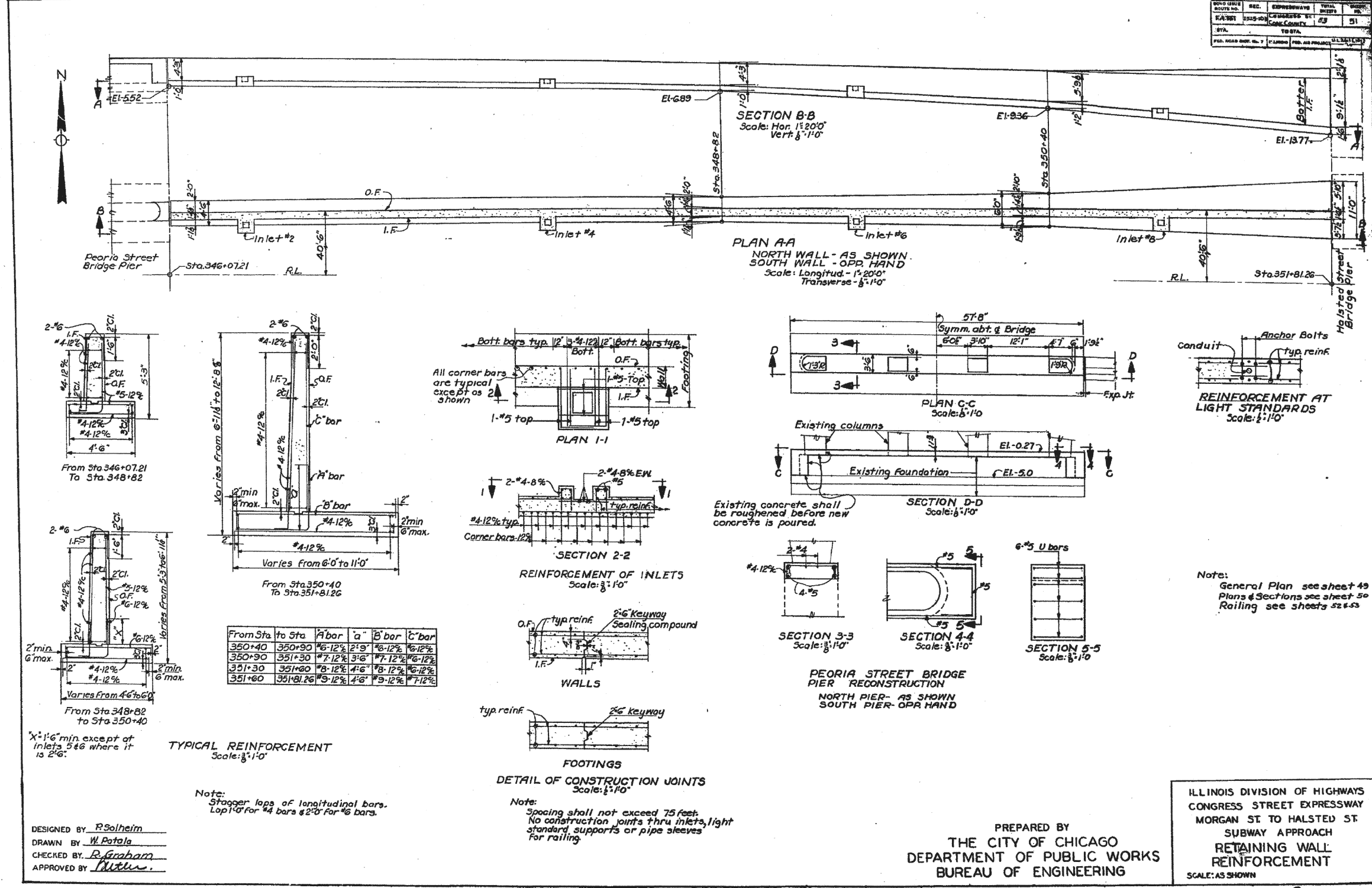
SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	282
CONTRACT NO. 60X77				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

PROJECT NO.	SECTION	EXPRESSWAY	TOTAL SHEETS	SHEET NO.
60X77	0312-03	CONGRESS ST	53	51
STA.	TO STA.			
Sta. 346+07.21	Sta. 351+81.26			



From Sta	To Sta	A bar	a"	B bar	b"	C bar	c"
350+40	350+90	#6-12%	2'9"	#6-12%	3'6"	#6-12%	4'6"
350+90	351+30	#7-12%	3'6"	#7-12%	4'6"	#6-12%	5'6"
351+30	351+60	#8-12%	4'6"	#8-12%	5'6"	#6-12%	6'6"
351+60	351+81.26	#5-12%	4'6"	#5-12%	5'6"	#7-12%	6'6"

DESIGNED BY R. Solheim
 DRAWN BY W. Potala
 CHECKED BY R. Gabram
 APPROVED BY M. [Signature]

Note:
 Stagger laps of longitudinal bars.
 Lap 1'0" for #4 bars & 2'0" for #6 bars.

Note:
 Spacing shall not exceed 75 feet.
 No construction joints thru inlets, light
 standard supports or pipe sleeves
 for railing.

Note:
 General Plan see sheet 49
 Plans & Sections see sheet 50
 Railing see sheets 52 & 53

PREPARED BY
 THE CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING

ILLINOIS DIVISION OF HIGHWAYS
 CONGRESS STREET EXPRESSWAY
 MORGAN ST TO HALSTED ST
 SUBWAY APPROACH
 RETAINING WALL
 REINFORCEMENT
 SCALE: AS SHOWN

FILE PATH = \\uncitg1\6001\p\ad\Projects\60X77\2016-03-14-60X77-FINAL_PLOT_0160X77-SHT-EX-RW8-03.dgn



D160X77-SHT-EX-RW8-03.dgn
 USER NAME = dshevoz
 PLOT SCALE = 100.0000 / 1 in.
 PLOT DATE = 3/15/2016

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 3/14/2016	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING RETAINING WALL 8 PLAN
 SCALE: NTS SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-003R&B	COOK	431	283
CONTRACT NO. 60X77				
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1A.dgn

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 CHICAGO, IL 60601-3000
 PHONE: (312) 517-7000 FAX: (312) 517-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS

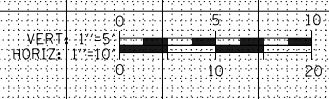
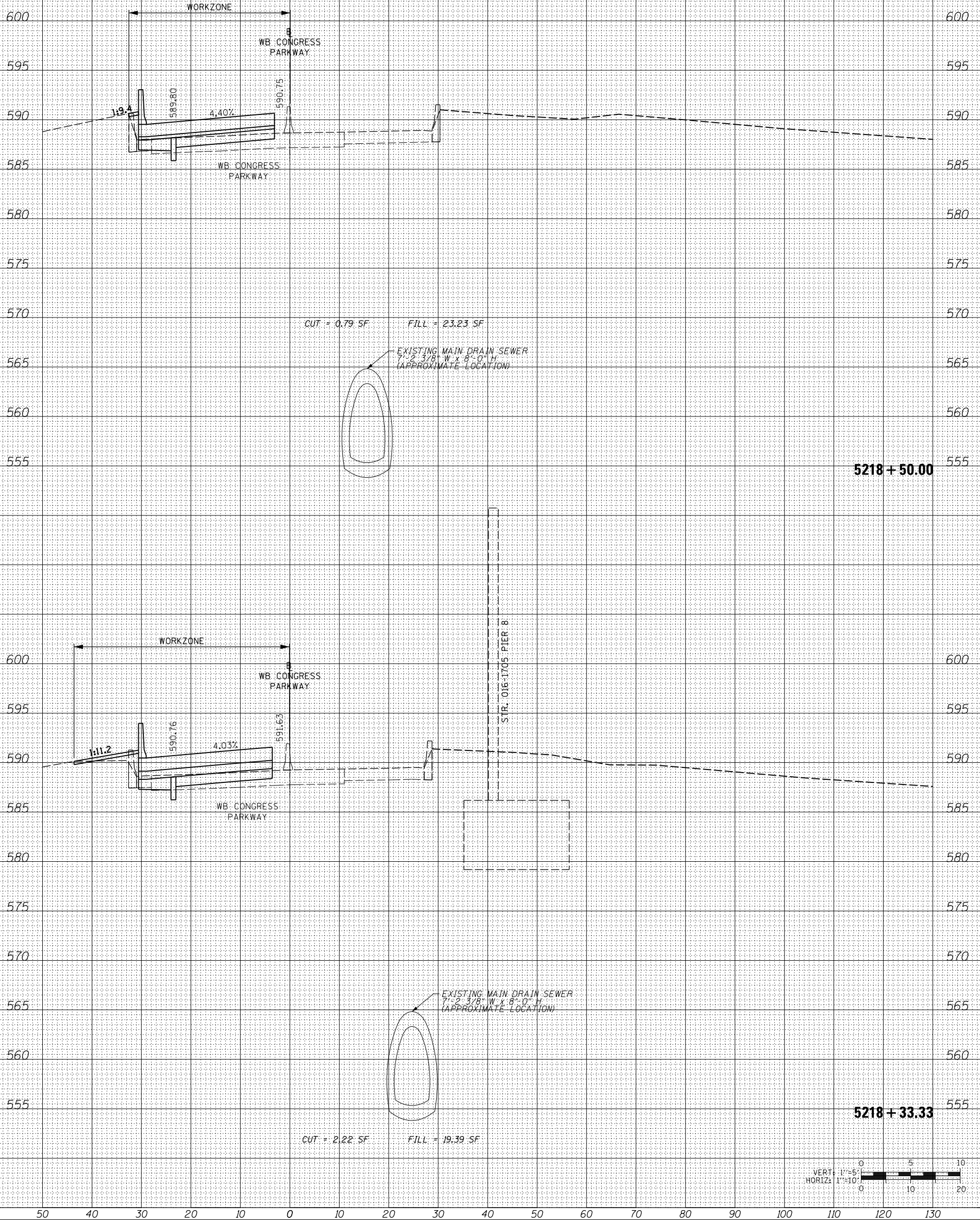
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: HORIZ. 1"=10'
 SHEET 01 OF 08 SHEETS STA. 5218+33.33 TO STA. 5218+50.00

WB CONGRESS PKWY MAINLINE STAGE 1A
 CROSS SECTIONS
 TOTAL SHEET NO. 60X77
 SHEETS NO. 431, 284
 COUNTY ILLINOIS
 CONTRACT NO. 60X77

NOTES:

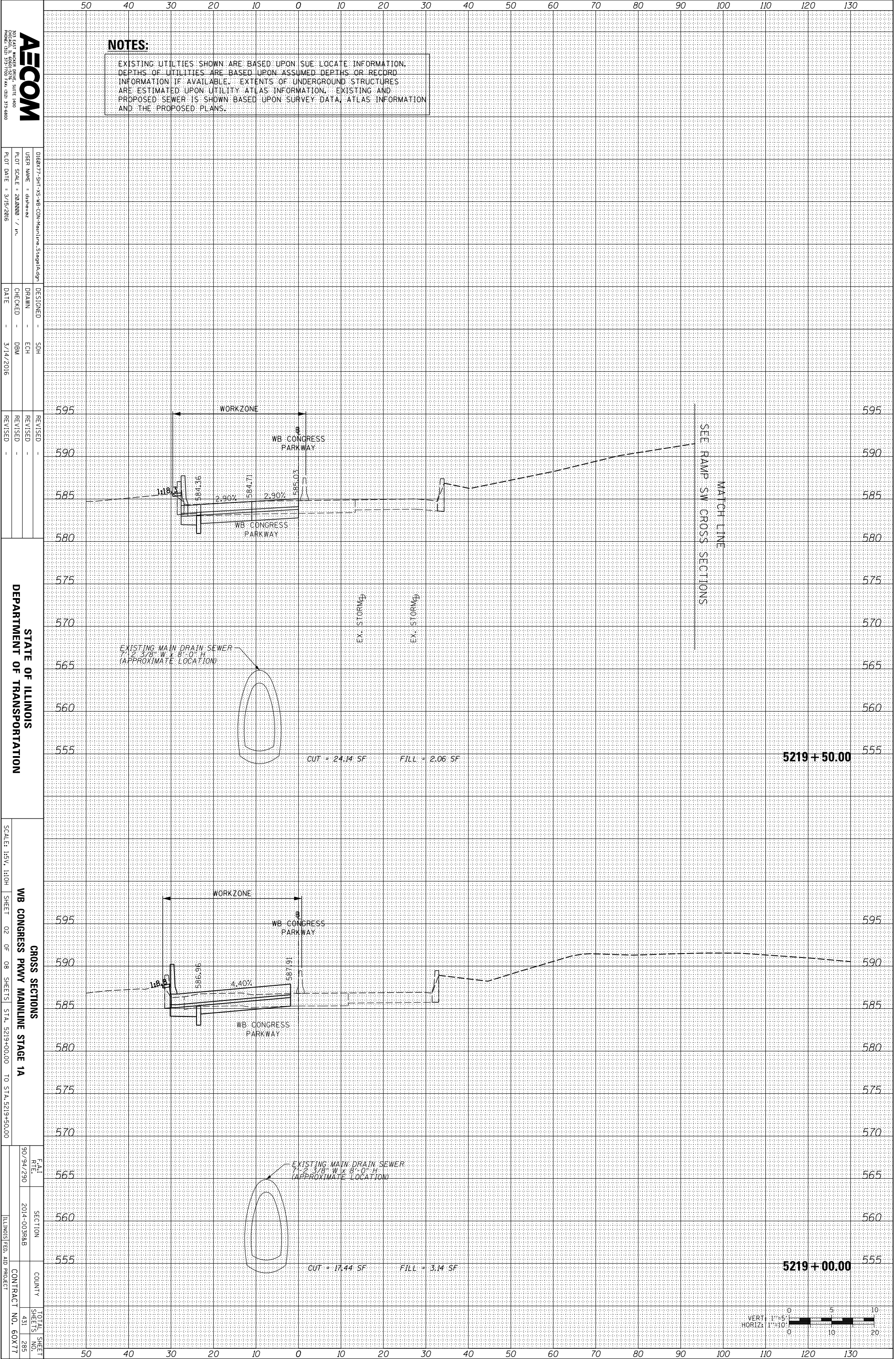
EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CO-Mainline_Stage1A.dgn



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 4000
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 517-7000 FAX: (312) 517-6800

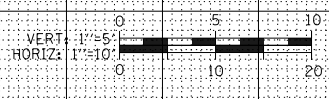
DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. DATE DESCRIPTION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1A
 SHEET 02 OF 08 SHEETS STA. 5219+00.00 TO STA. 5219+50.00

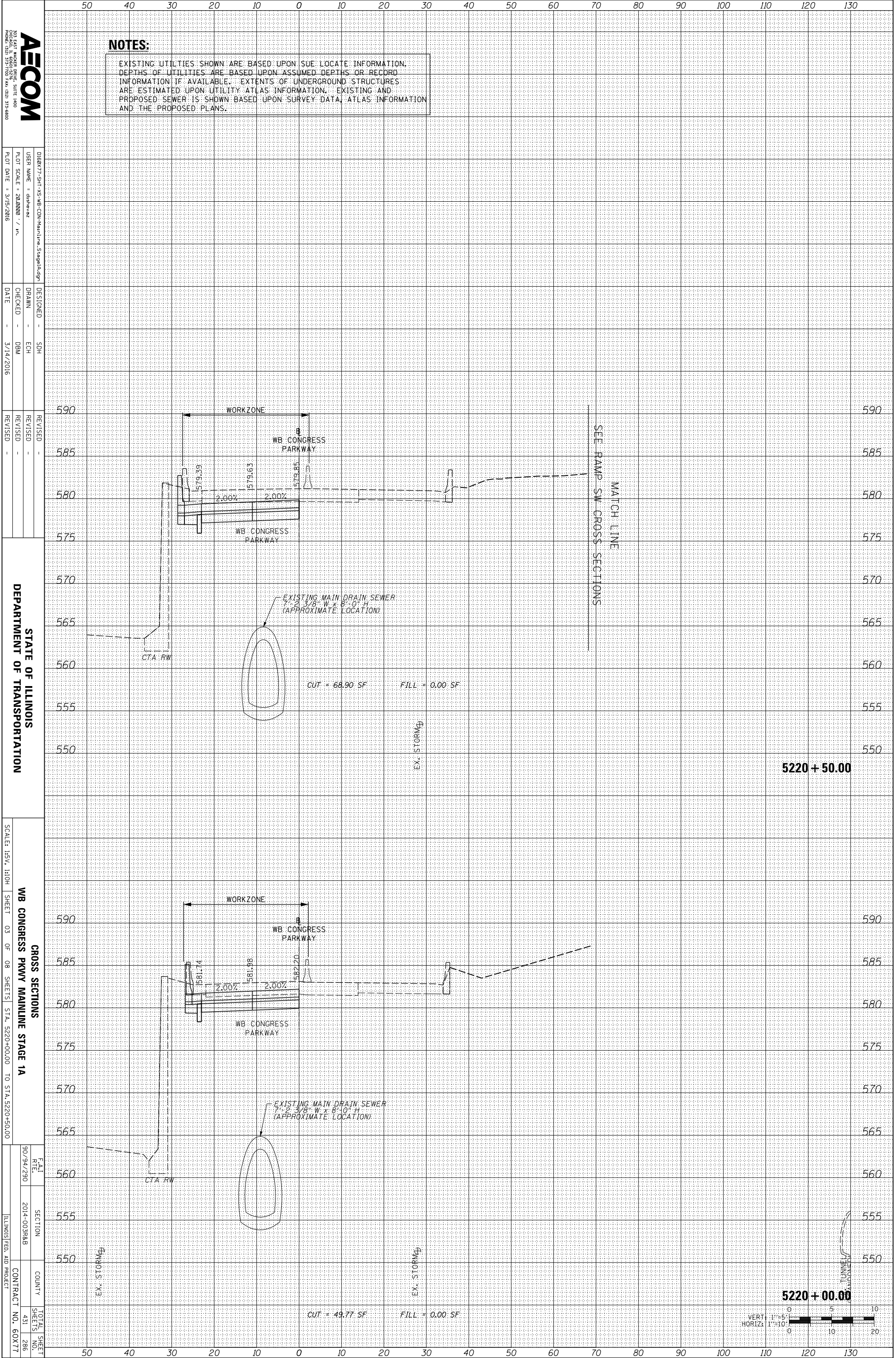
SCALE: HORIZ. 1"=10' VERT. 1"=5'
 TOTAL SHEET NO. 285
 SHEET NO. 431
 CONTRACT NO. 60X77



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1A.dgn



NOTES:

EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. 1
 DATE 3/14/2016

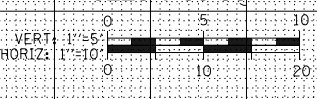
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1A
 SHEET 03 OF 08 SHEETS STA. 5220+00.00 TO STA. 5220+50.00

SCALE: HORIZ. 1"=10'
 VERT. 1"=5'
 TOTAL SHEET NO. 286
 SHEETS NO. 431
 CONTRACT NO. 60X77

5220 + 50.00

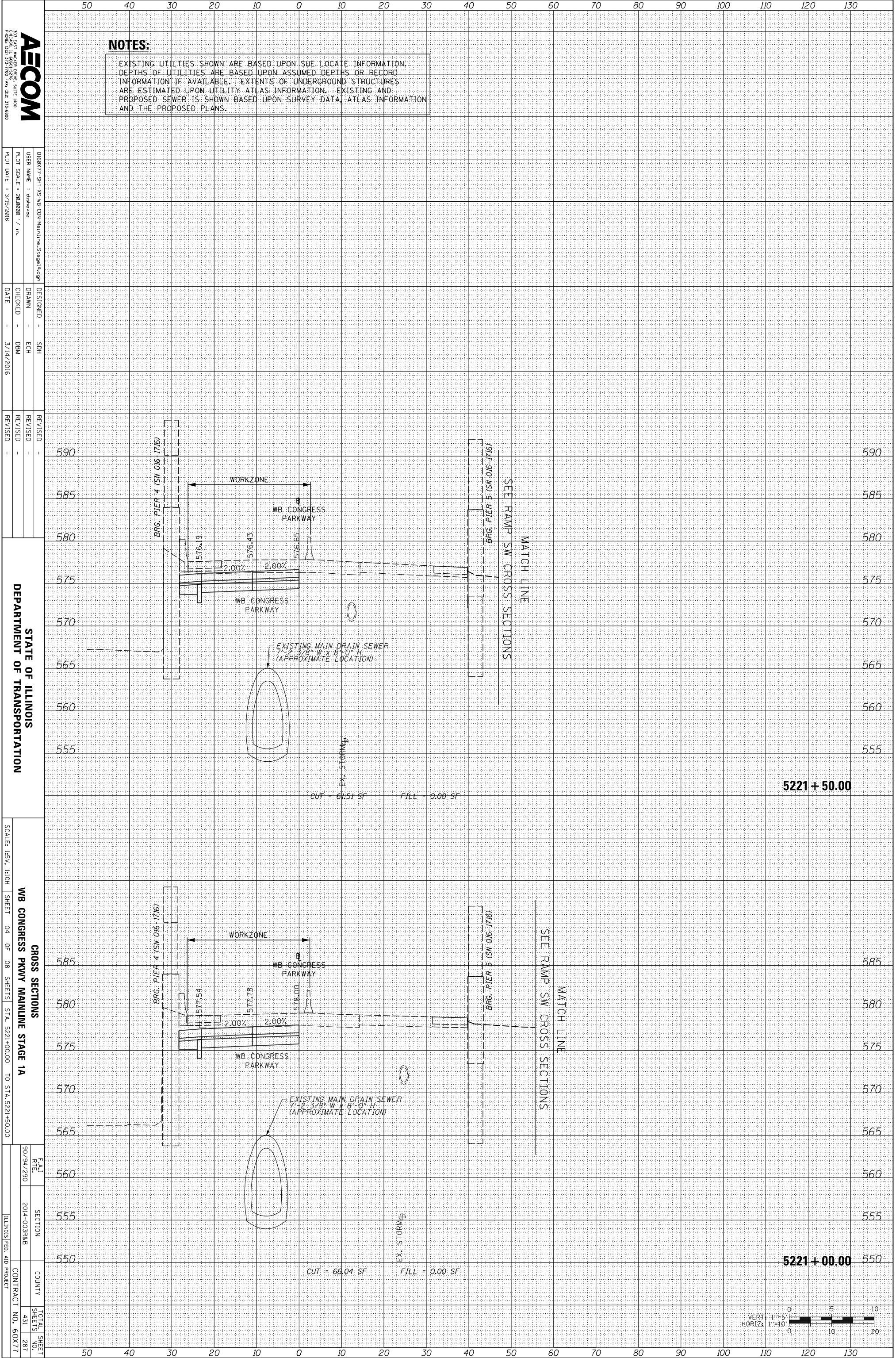
5220 + 00.00



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CO-Mainline_Stage1A.dgn



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 CHICAGO, IL 60601-3000
 PHONE: (312) 515-7000 FAX: (312) 515-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. | DATE | DESCRIPTION

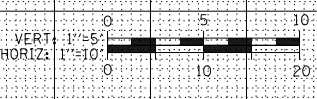
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1A
 SHEET 04 OF 08 SHEETS STA. 5221+00.00 TO STA. 5221+50.00

SCALE: 1/8" = 1'-0"
 TOTAL SHEET SHEETS NO. 431 287
 COUNTY ILLINOIS
 CONTRACT NO. 60X77

5221 + 50.00

5221 + 00.00



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FILE PATH = \\uscgf\001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1A.dgn

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 CHICAGO, IL 60601-3000
 PHONE: (312) 575-7000 FAX: (312) 575-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

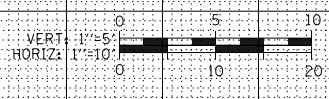
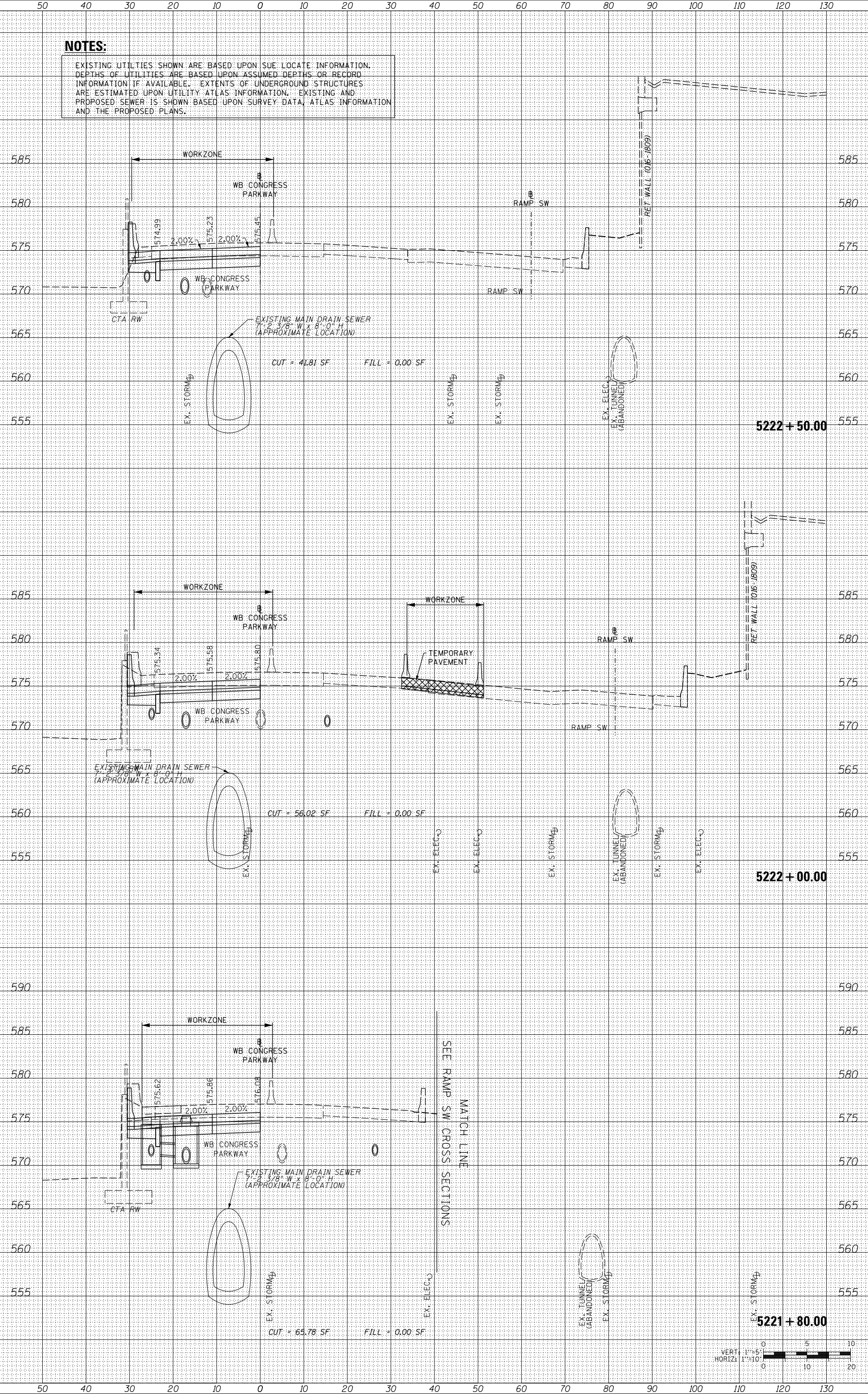
REVISIONS
 REVISION NO. | DESCRIPTION | DATE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WB CONGRESS PKWY MAINLINE STAGE 1A
 SHEET 05 OF 08 SHEETS STA. 5221+80.00 TO STA. 5222+50.00

CROSS SECTIONS
 TOTAL SHEET NO. 431
 SHEETS NO. 288
 CONTRACT NO. 60X77

NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FILE PATH = \\uschg\fa001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1A.dgn

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 CHICAGO, IL 60601-3000
 PHONE: (312) 517-7000 FAX: (312) 517-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. DATE DESCRIPTION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

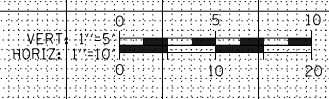
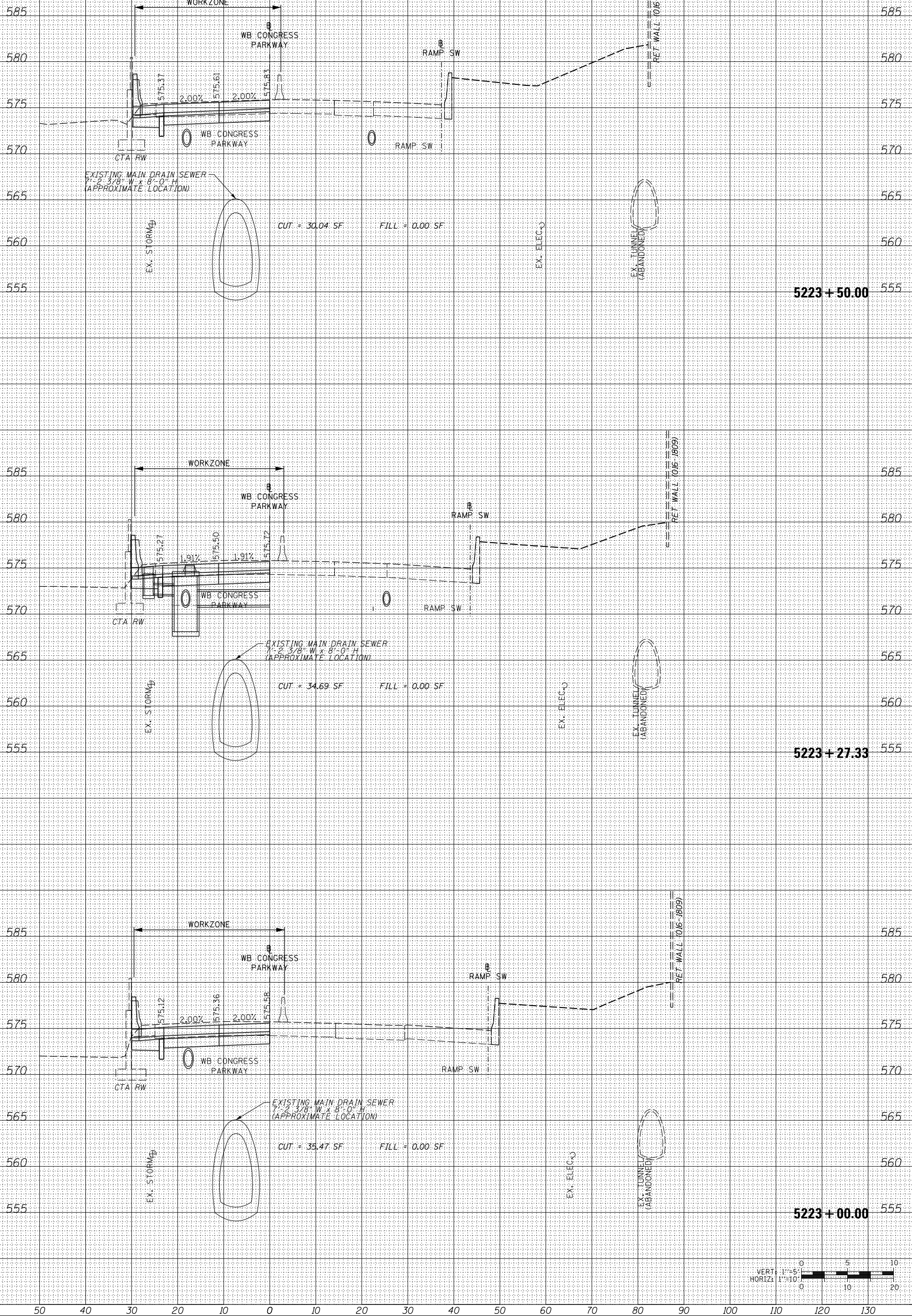
SCALE: 1/8" = 1'-0"

WB CONGRESS PKWY MAINLINE STAGE 1A
 SHEET 06 OF 08 SHEETS STA. 5223+00.00 TO STA. 5223+50.00

CROSS SECTIONS
 TOTAL SHEET NO. 431
 SHEETS NO. 289
 COUNTY CONTRACT NO. 60X77
 ILLINOIS FED. AID PROJECT

NOTES:

EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1A.dgn

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 CHICAGO, IL 60601-3000
 PHONE: (312) 517-7000 FAX: (312) 517-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. DATE DESCRIPTION

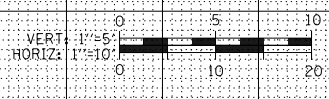
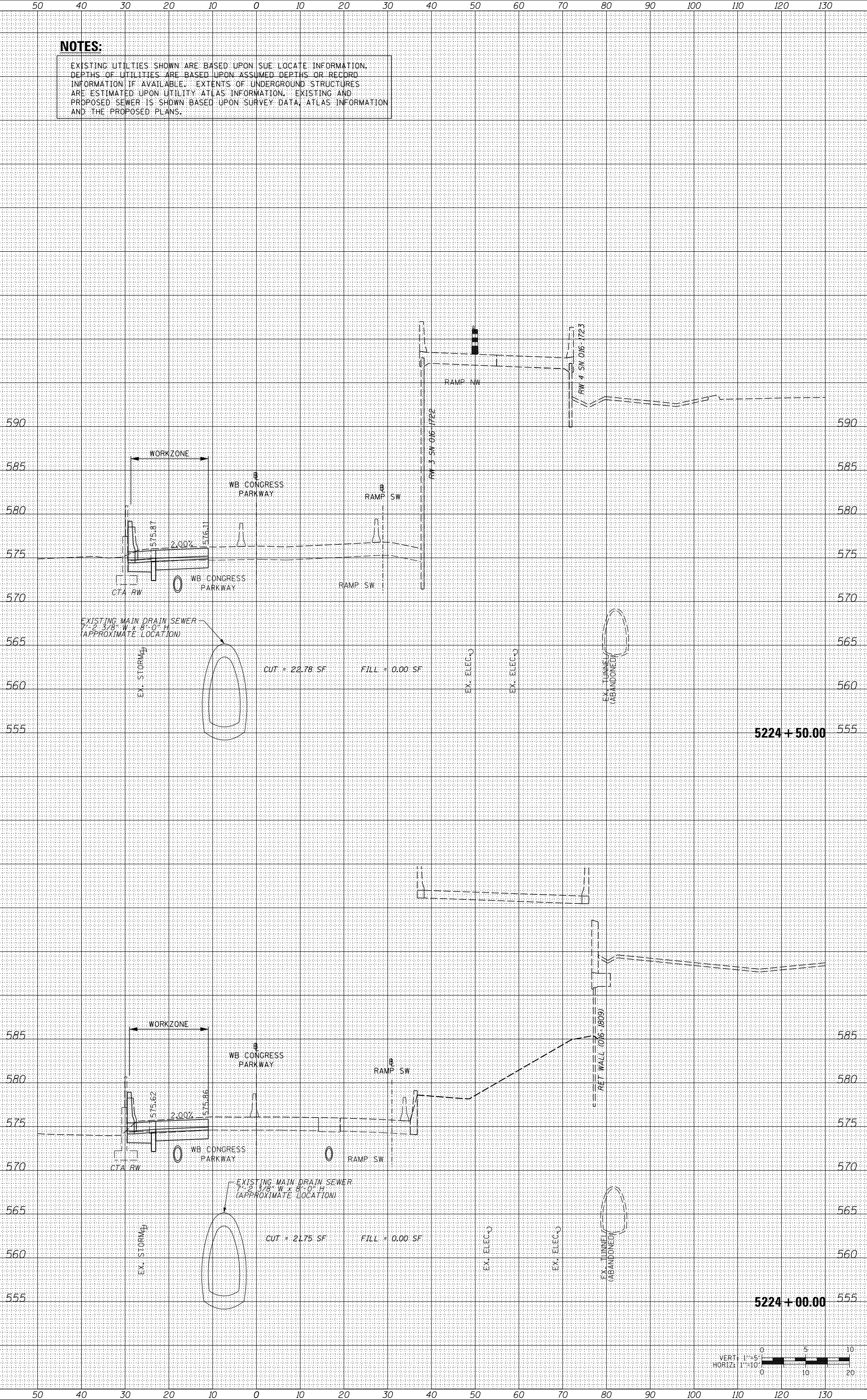
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: HORIZ. 1"=10'
 SHEET 07 OF 08 SHEETS STA. 5224+00.00 TO STA. 5225+00.00

WB CONGRESS PKWY MAINLINE STAGE 1A
 COUNTY: ILLINOIS
 CONTRACT NO.: 60X77

NOTES:

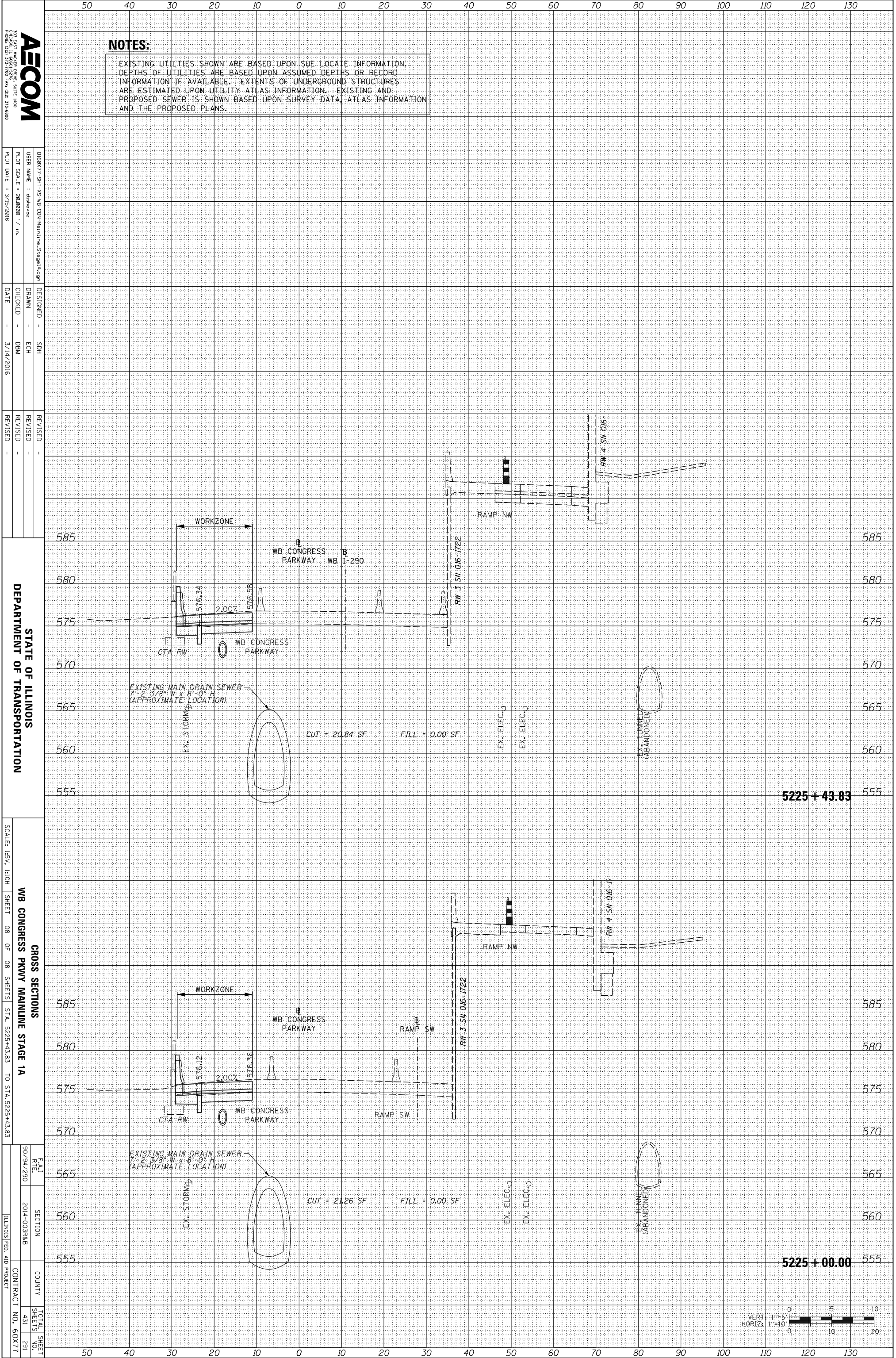
EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1A.dgn



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 PROVEA, ILLINOIS 61870
 PHONE: (815) 313-7000 FAX: (815) 313-6800

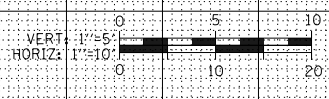
DESIGNED	SDH
DRAWN	ECH
CHECKED	DBM
DATE	3/14/2016

REVISION	
REVISION	
REVISION	
REVISION	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1A
 SCALE: H&V: 1"=10'
 SHEET 08 OF 08 SHEETS STA. 5225+43.83 TO STA. 5225+43.83

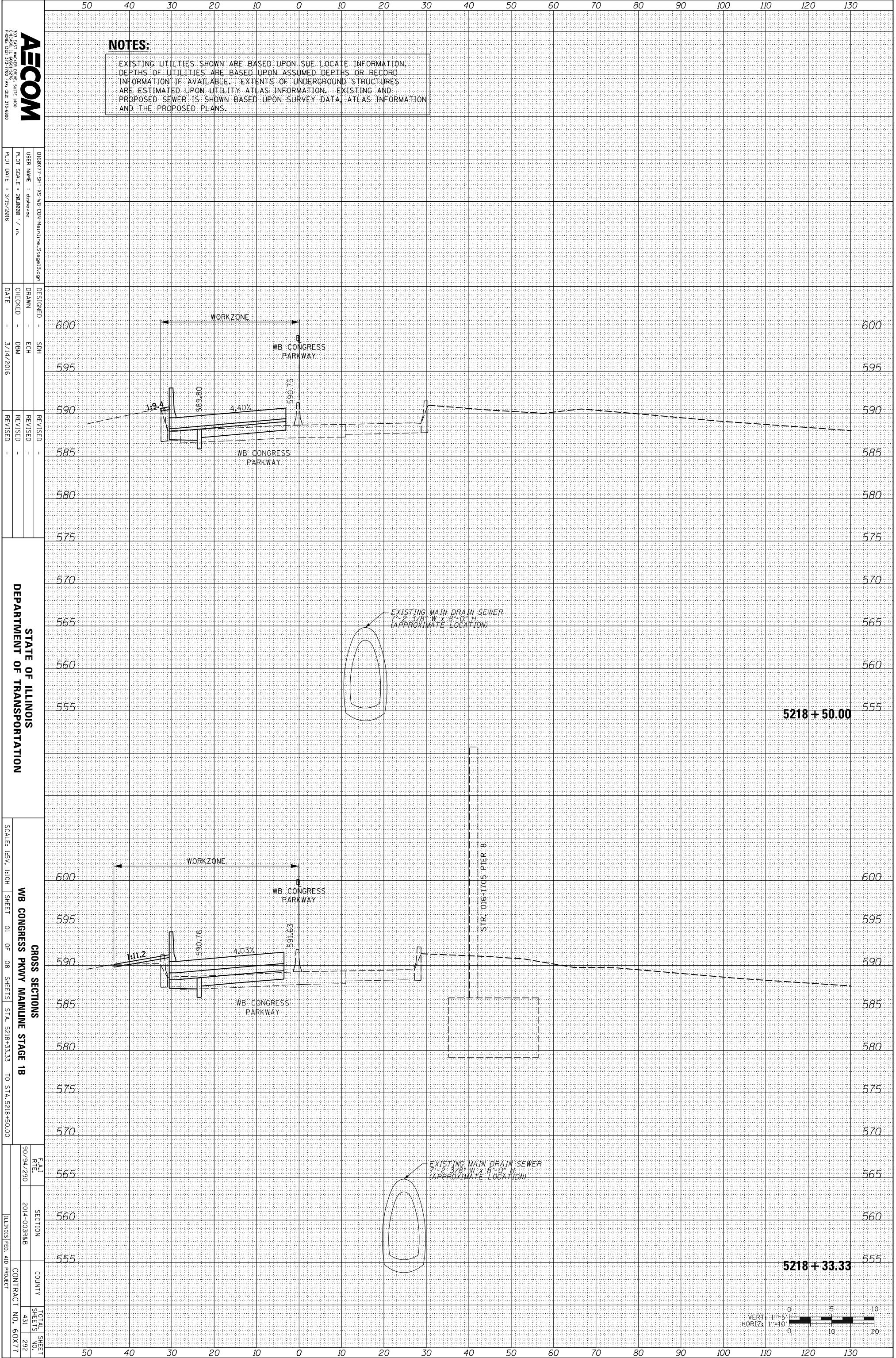
DATE	9/09/2010
SECTION	2014-00388B
COUNTY	ILLINOIS FED. AID PROJECT
TOTAL SHEETS	431
SHEETS NO.	291
CONTRACT NO.	60X77



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CO-Mainline_Stage1B.dgn



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

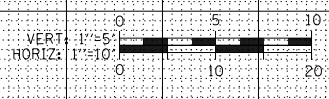
AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 PHOENIX, AZ 85016-1700 FAX: (602) 971-6800

DESIGNED - SDH	REVISIONS
DRAWN - ECH	1
CHECKED - DBM	2
DATE - 3/14/2016	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1B
 SCALE: 1/8" = 1'-0"
 SHEET 01 OF 08 SHEETS STA. 5218+33.33 TO STA. 5218+50.00

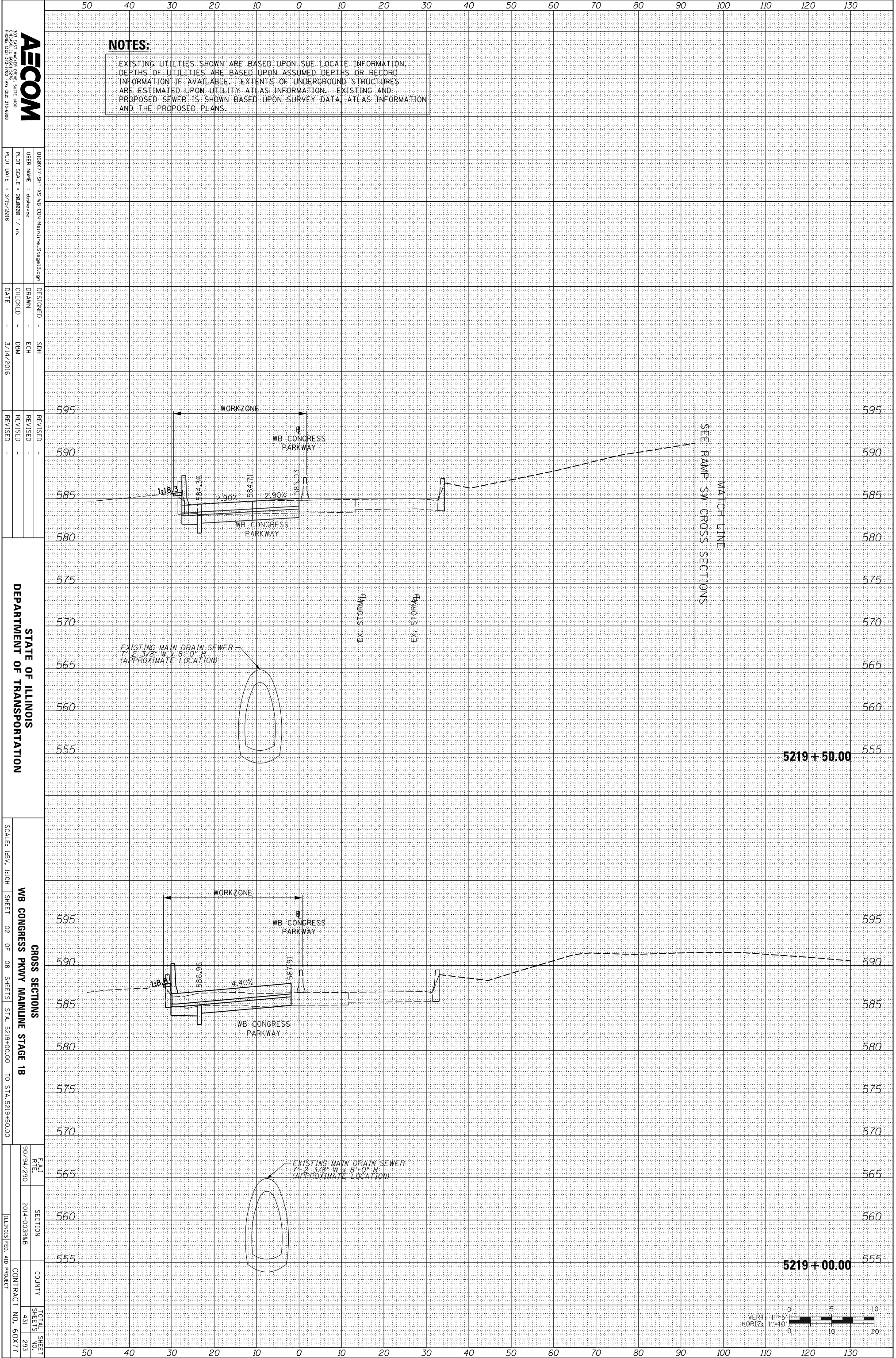
DATE	SECTION	COUNTY	TOTAL SHEET NO.
9/09/2010	2014-00388B	ILLINOIS	431
			292
			60X77



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CO-Mainline_Stage1B.dgn



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 4000
 CHICAGO, IL 60601-1000
 PHONE: (312) 575-7000 FAX: (312) 575-6800

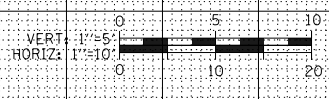
DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. DATE BY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1B
 SHEET 02 OF 08 SHEETS STA. 5219+00.00 TO STA. 5219+50.00

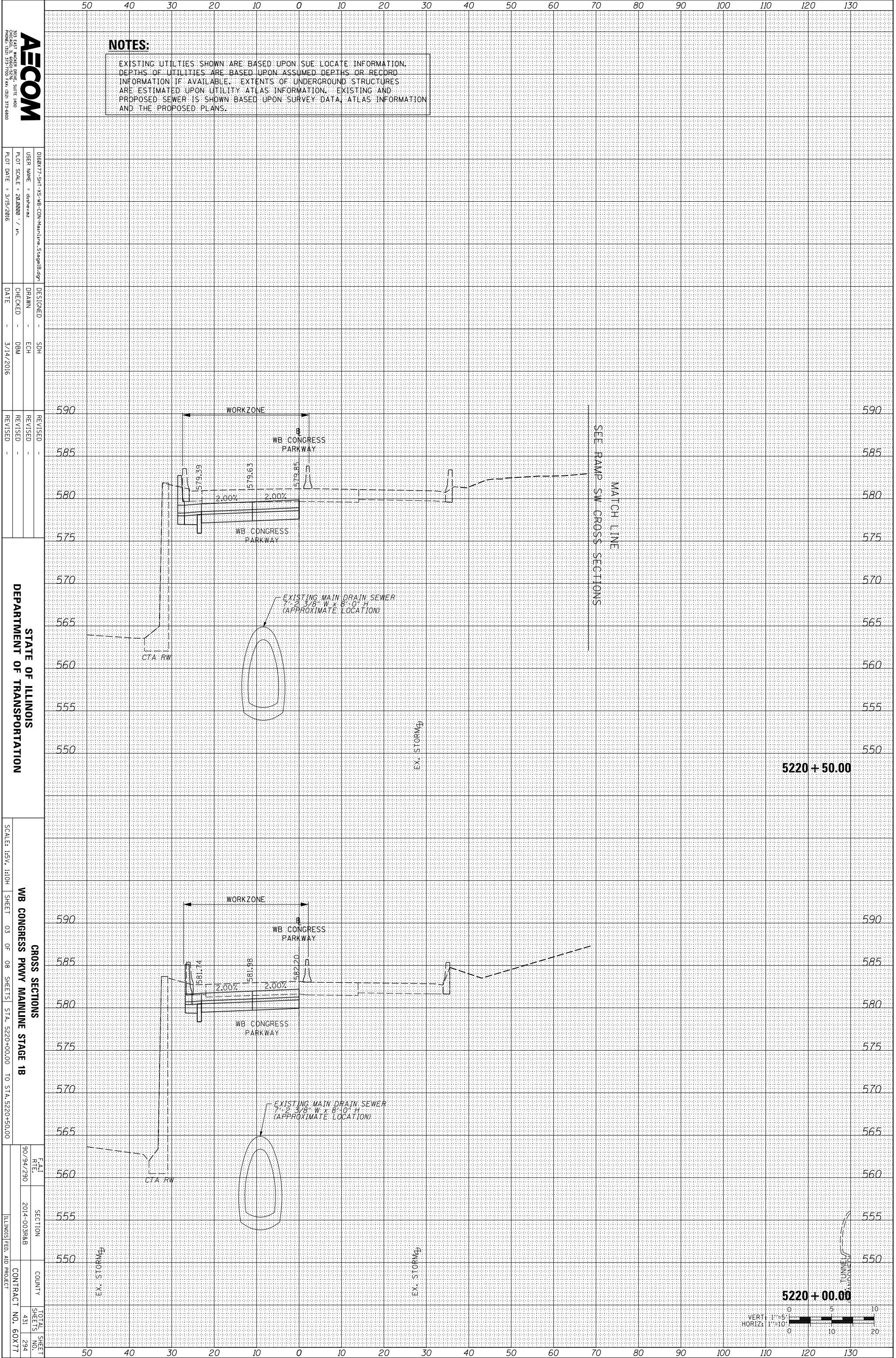
SCALE: 1/8" = 1'-0"
 TOTAL SHEET NO. 293
 SHEETS NO. 431
 CONTRACT NO. 60X77
 ILLINOIS FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		
NO.			

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	CHECKED _____		
NO.			

FILE PATH = \\uschg\fa001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CO-Mainline_Stage1B.dgn



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

AECOM
 200 EAST MADISON AVENUE, SUITE 1400
 CHICAGO, IL 60601
 PHONE: (312) 517-7000 FAX: (312) 517-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. DATE DESCRIPTION

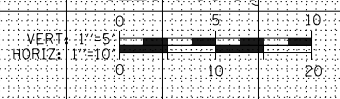
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1B
 SHEET 03 OF 08 SHEETS STA. 5220+00.00 TO STA. 5220+50.00

SCALE: H&V: 1"=10'
 SHEET 03 OF 08 SHEETS STA. 5220+00.00 TO STA. 5220+50.00

5220 + 50.00

5220 + 00.00

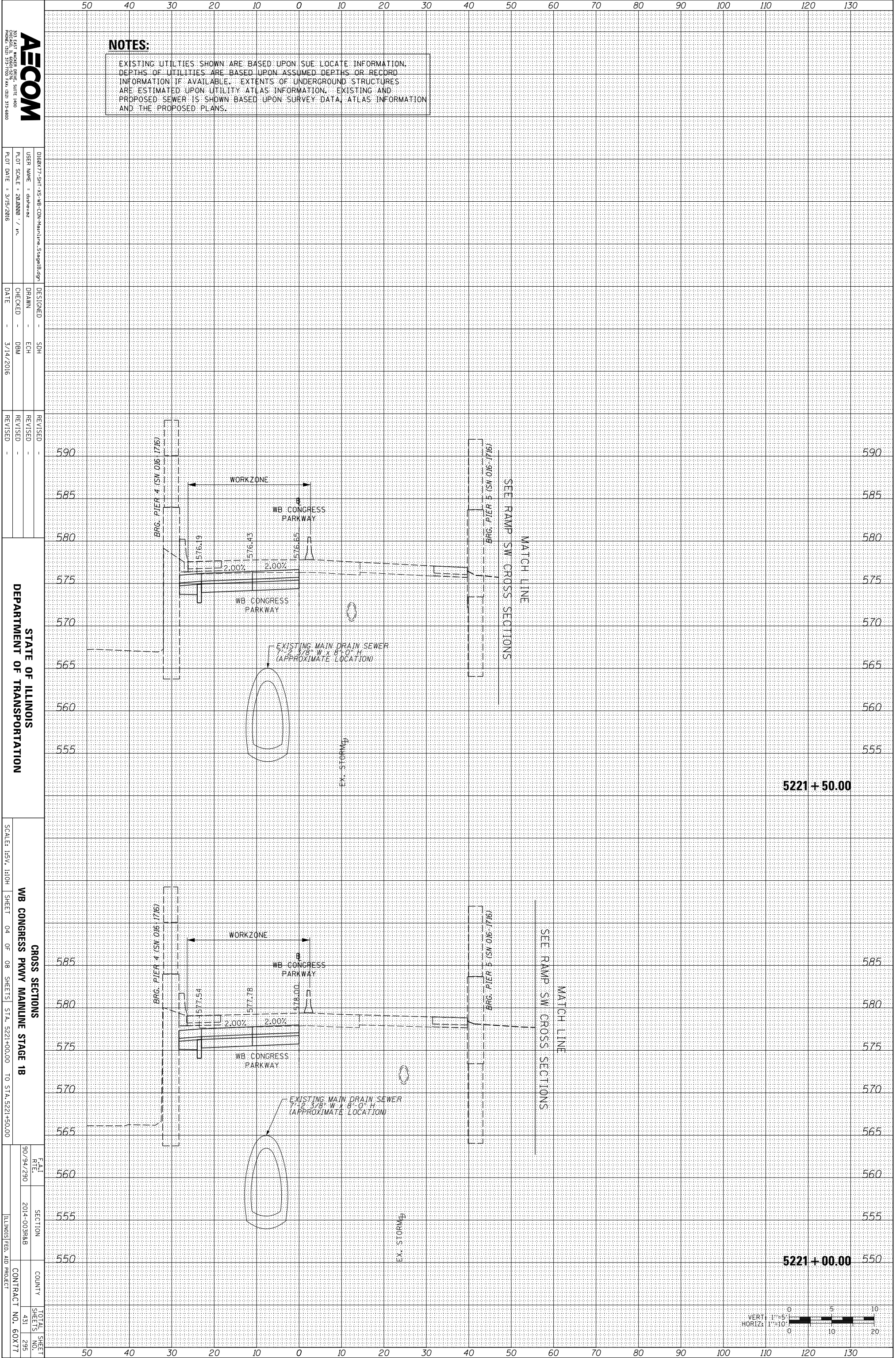


TUNNEL/UNDERPASS

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1B.dgn



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 CHICAGO, IL 60601
 PHONE: (312) 517-7000 FAX: (312) 517-6800

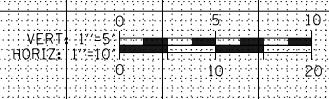
DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. DATE DESCRIPTION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1/8" = 1'-0"
 SHEET 04 OF 08 SHEETS
 STA. 5221+00.00 TO STA. 5221+50.00

WB CONGRESS PKWY MAINLINE STAGE 1B
 CROSS SECTIONS
 TOTAL SHEET NO. 295
 SHEETS NO. 431
 COUNTY ILLINOIS
 CONTRACT NO. 60X77
 ILLINOIS FED. AID PROJECT



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1B.dgn

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 575-7000 FAX: (312) 575-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1/4" = 1'-0"

SHEET 05 OF 08 SHEETS

WB CONGRESS PKWY MAINLINE STAGE 1B

CROSS SECTIONS

STA. 5221+80.00 TO STA. 5222+50.00

DATE: 9/09/2010

SECTION: 2014-003RAB

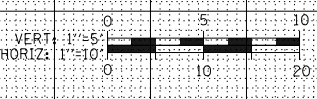
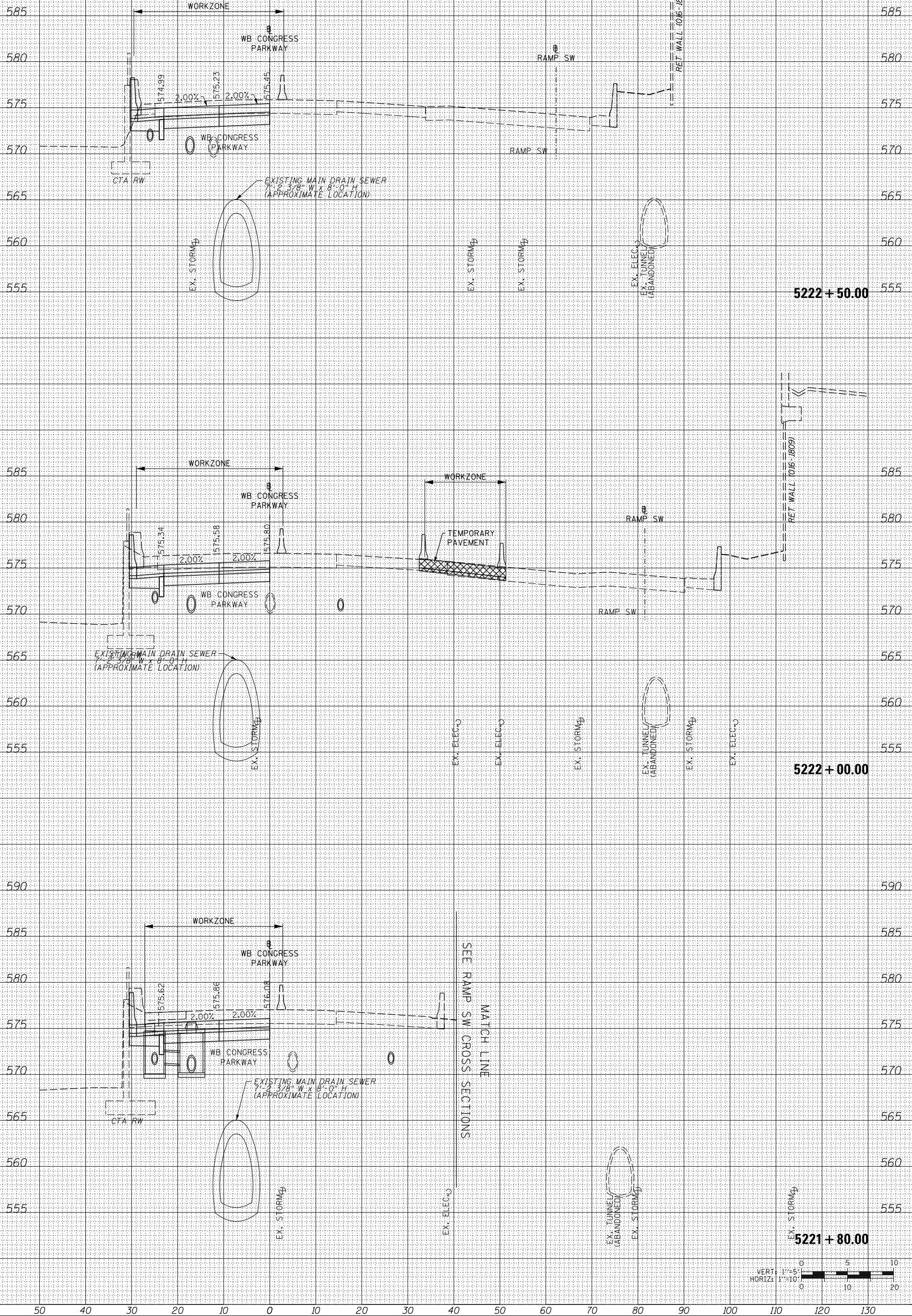
COUNTY: ILLINOIS

CONTRACT NO.: 60X77

TOTAL SHEETS: 431

NOTES:

EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



5221 + 80.00

5222 + 00.00

5222 + 50.00

SEE RAMP SW CROSS SECTIONS
 MATCH LINE

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FILE PATH = \\uschg\fa001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1B.dgn

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 CHICAGO, IL 60601
 PHONE: (312) 517-7000 FAX: (312) 517-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. | DATE | DESCRIPTION

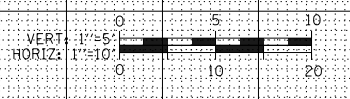
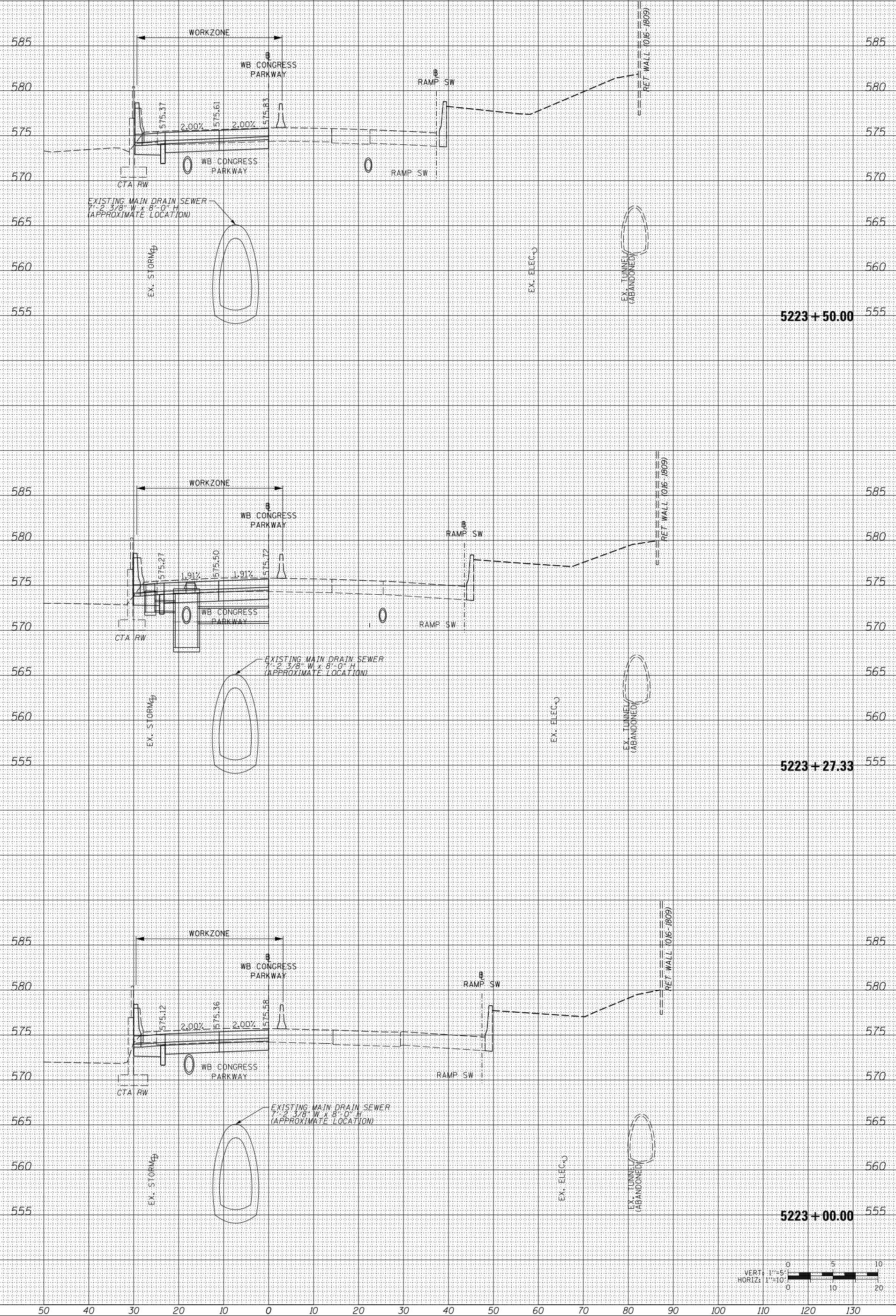
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1/8" = 1'-0"

WB CONGRESS PKWY MAINLINE STAGE 1B
 SHEET 06 OF 08 SHEETS STA. 5223+00.00 TO STA. 5223+50.00

CROSS SECTIONS
 TOTAL SHEET NO. 431
 SHEETS NO. 297
 COUNTY
 CONTRACT NO. 60X77
 ILLINOIS FED. AID PROJECT

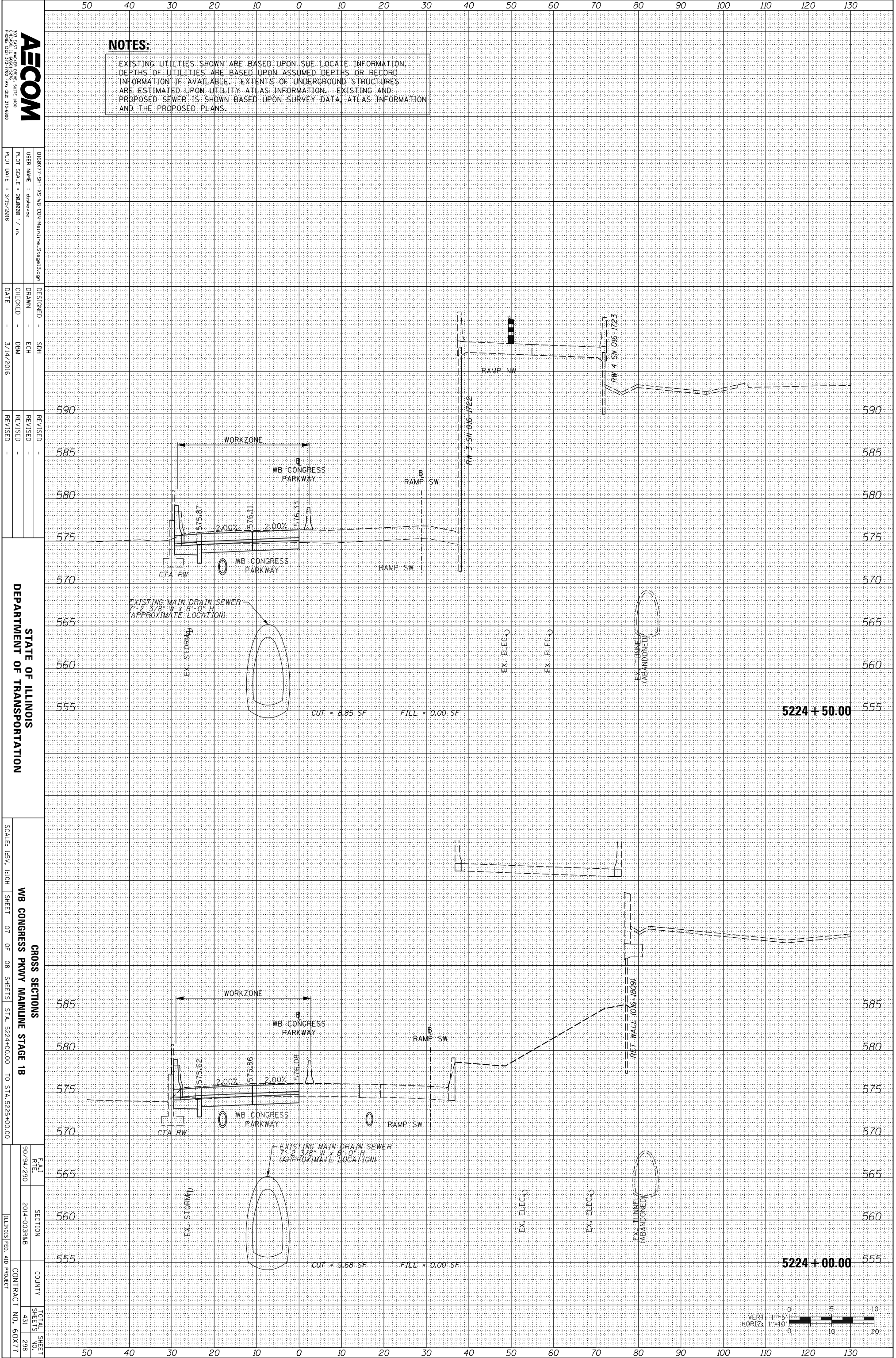
NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CO-Mainline_Stage1B.dgn



NOTES:
 EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.

AECOM
 200 EAST WISCONSIN AVENUE, SUITE 1400
 PROVEA, ILLINOIS 61870
 PHONE: (815) 315-7000 FAX: (815) 315-6800

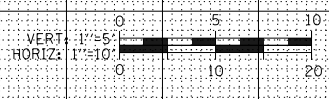
DESIGNED	SDH
DRAWN	ECH
CHECKED	DBM
DATE	3/14/2016

REVISION	
REVISION	
REVISION	
REVISION	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: H&V: 1"=10'
 SHEET 07 OF 08 SHEETS STA. 5224+00.00 TO STA. 5225+00.00
WB CONGRESS PKWY MAINLINE STAGE 1B

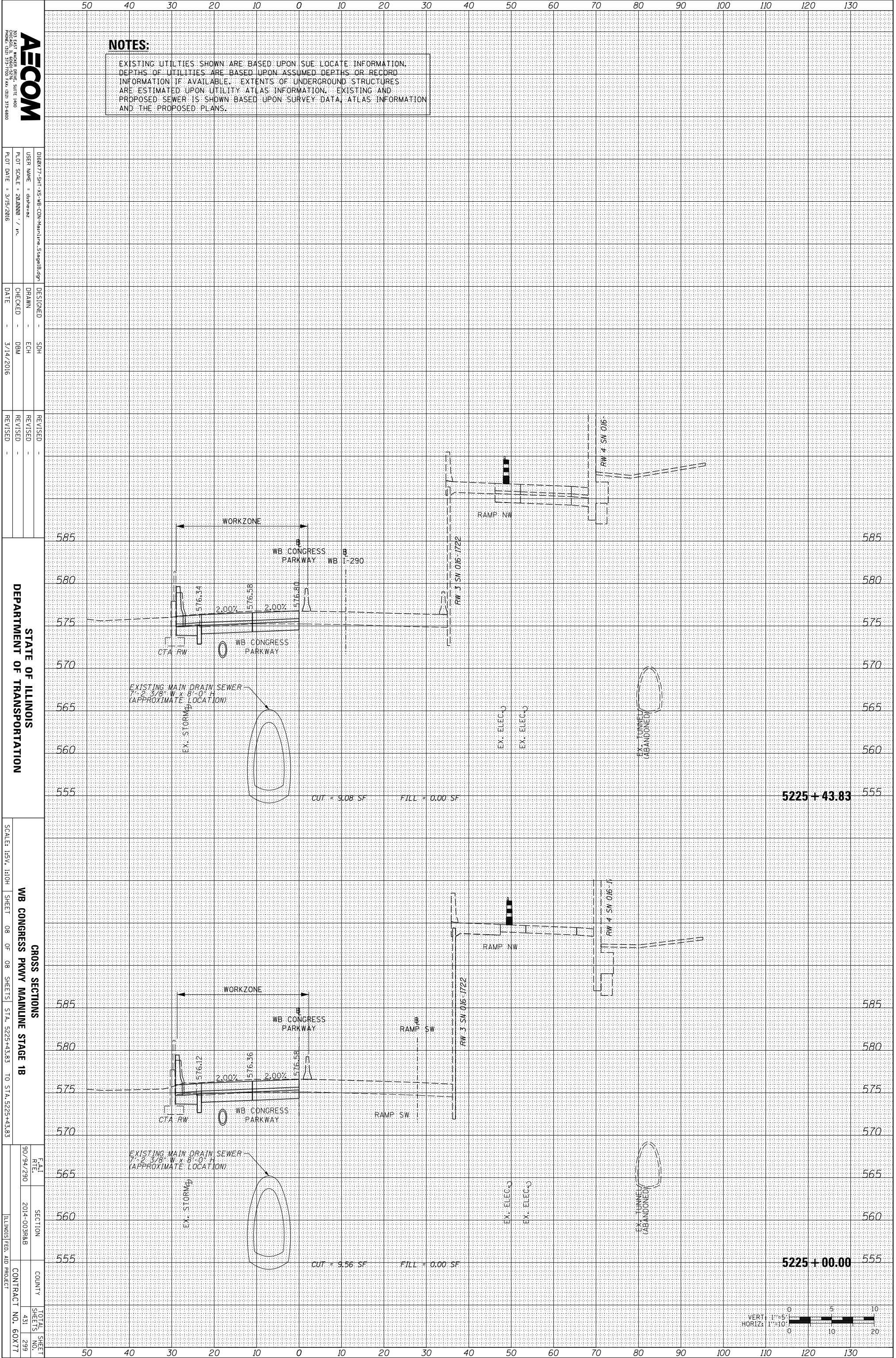
DATE	9/09/2010
SECTION	2014-003R&B
COUNTY	
TOTAL SHEETS	431
SHEETS NO.	298
CONTRACT NO.	60X77



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CON-Mainline_Stage1B.dgn



NOTES:

EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



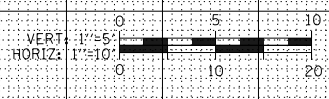
DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. DATE DESCRIPTION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1B
 SCALE: 1/4" = 1'-0"
 SHEET 08 OF 08 SHEETS STA. 5225+43.83 TO STA. 5225+43.83

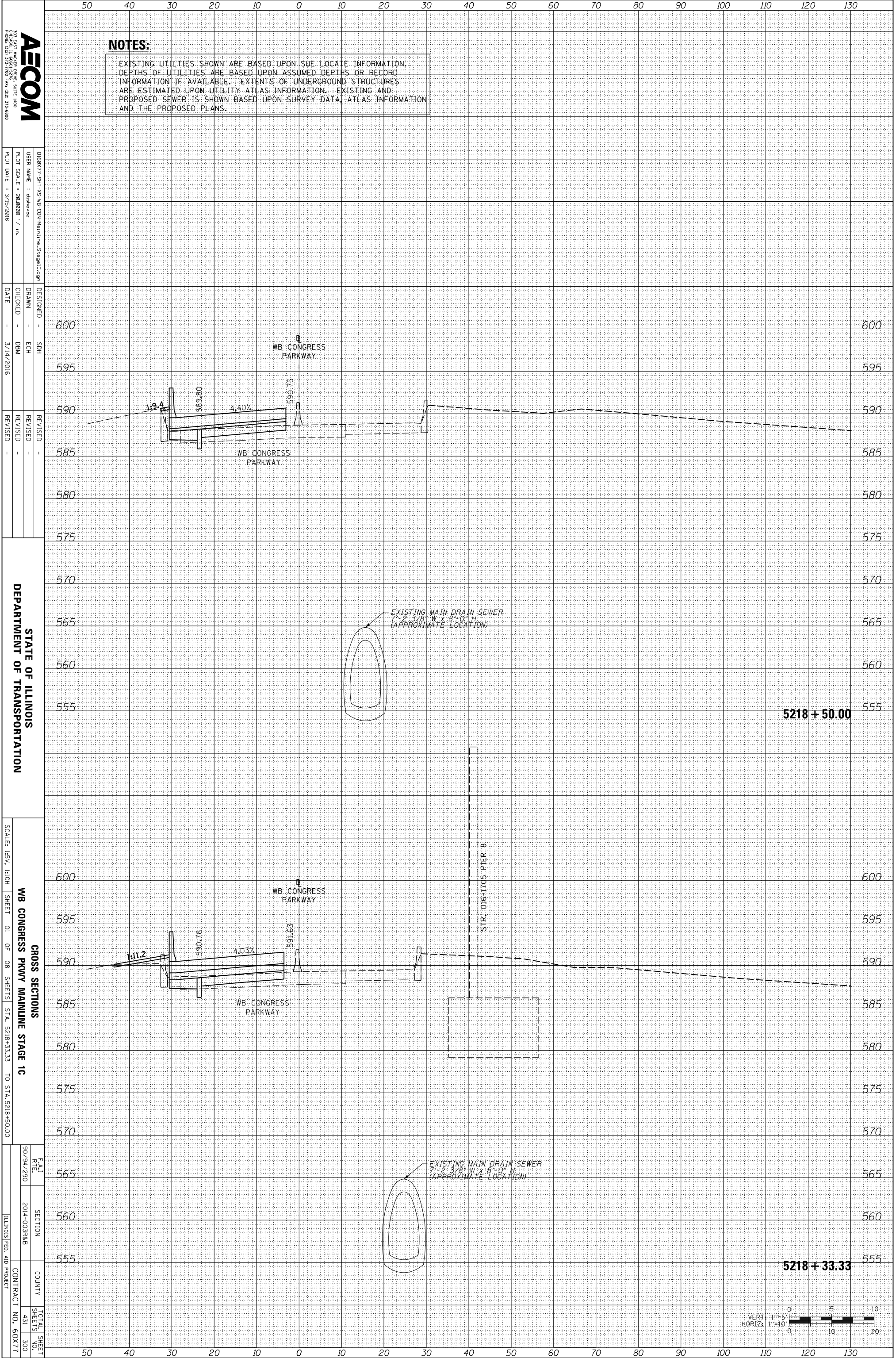
FAI RITE	SECTION	COUNTY	TOTAL SHEETS
90/94/290	2014-00388B		431
			299
			CONTRACT NO. 60X77



ORIGINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

FINAL SURVEY	SURVEYED _____	BY _____	DATE _____
NOTE BOOK	PLOTTED _____		
	TEMPLATE _____		
	AREAS _____		
	AREAS CHECKED _____		
NO.			

FILE PATH = \\uschg\fs001\prod\Projects\60288727\000_CAD\006_Roadway\Printing\60X77\2016-03-14-60X77-FINAL_PLOT\0160X77-SHT-XS-WB-CO-Mainline_Stage1C.dgn



AECOM
 200 EAST MADISON AVENUE, SUITE 1400
 CHICAGO, IL 60601
 PHONE: (312) 517-7000 FAX: (312) 517-6800

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

REVISIONS
 REVISION NO. DATE DESCRIPTION

DESIGNED - SDH
 DRAWN - ECH
 CHECKED - DBM
 DATE - 3/14/2016

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 WB CONGRESS PKWY MAINLINE STAGE 1C
 SCALE: 1/8" = 1'-0"
 SHEET 01 OF 08 SHEETS STA. 5218+33.33 TO STA. 5218+50.00

DATE: 9/09/2010
 SECTION: 2014-003RAB
 COUNTY: ILLINOIS
 CONTRACT NO.: 60X77

