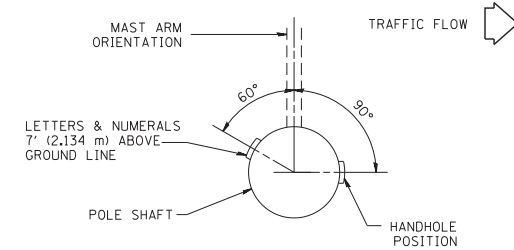
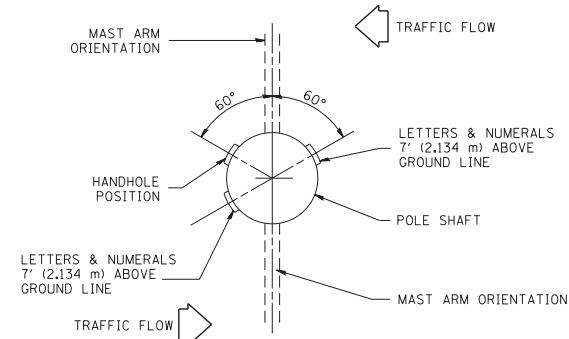


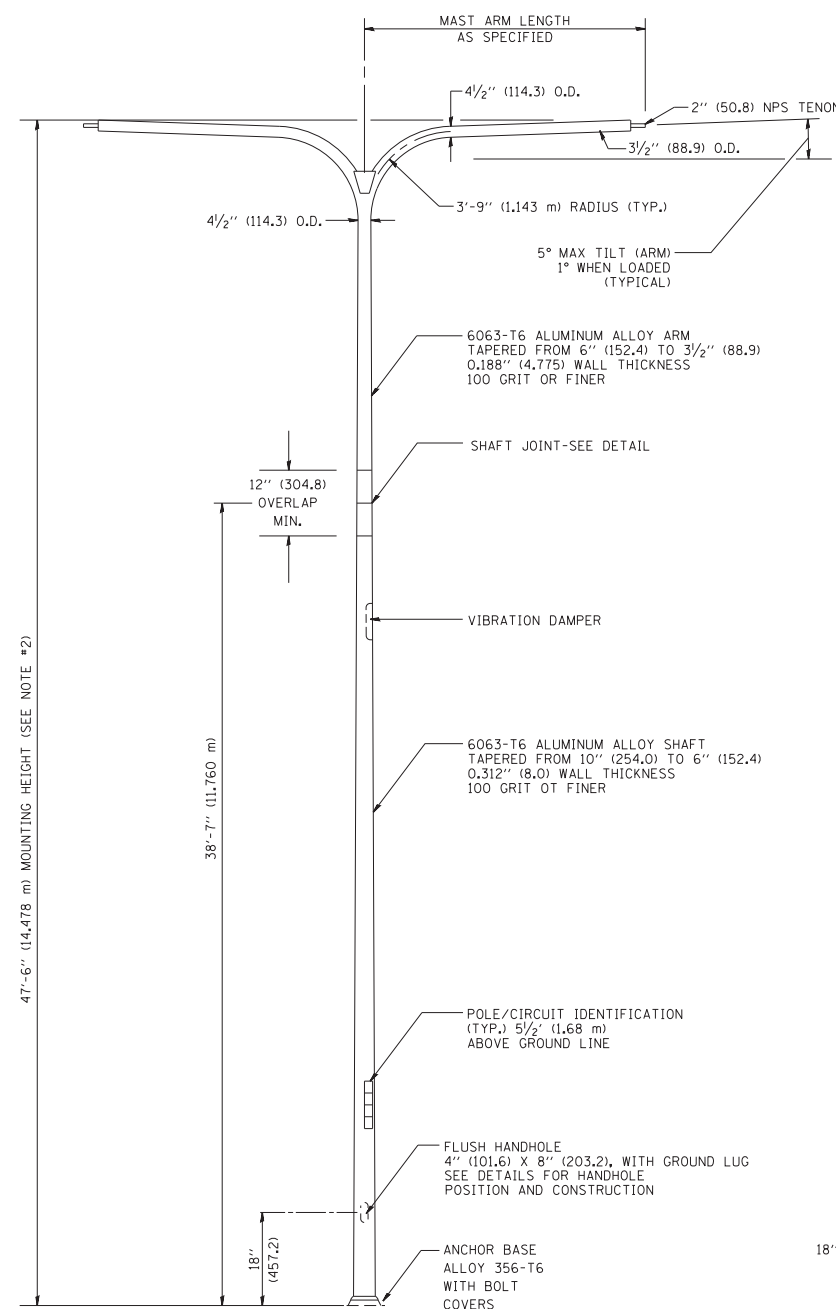
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



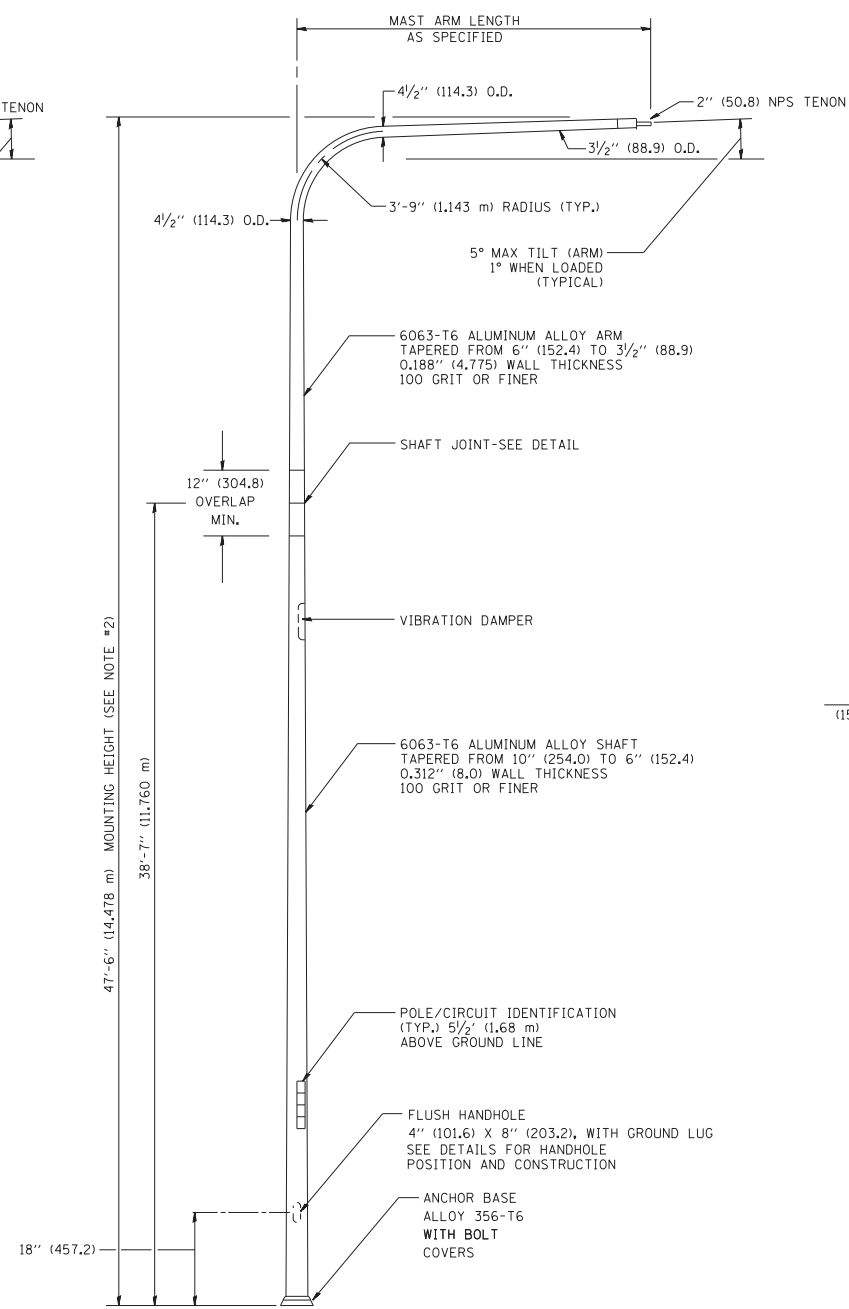
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



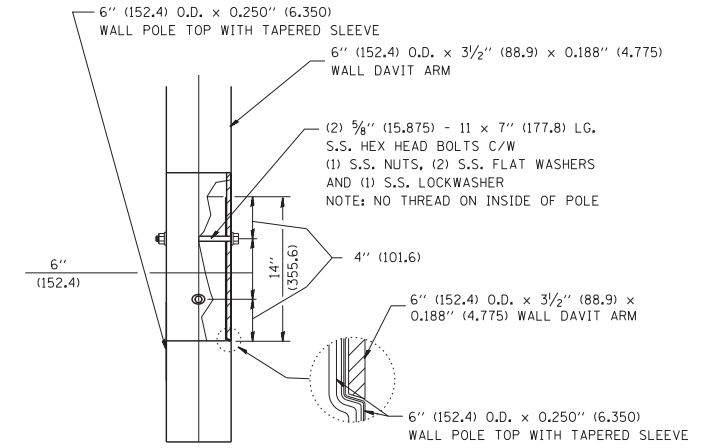
TWIN ARM POLE



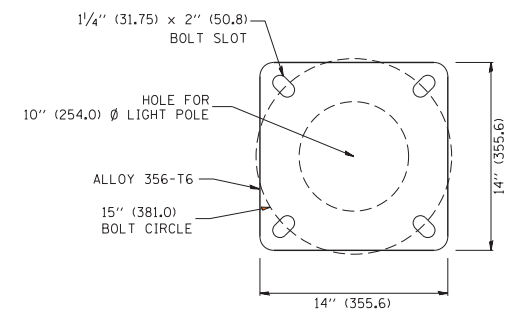
SINGLE ARM POLE

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.

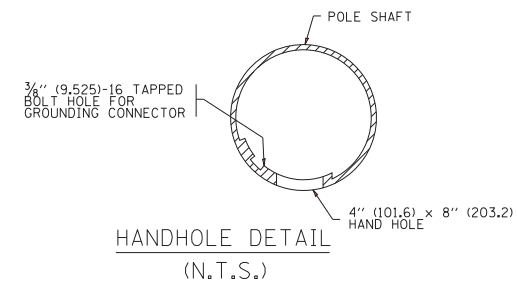


DAVIT ARM CONNECTION
[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL

(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



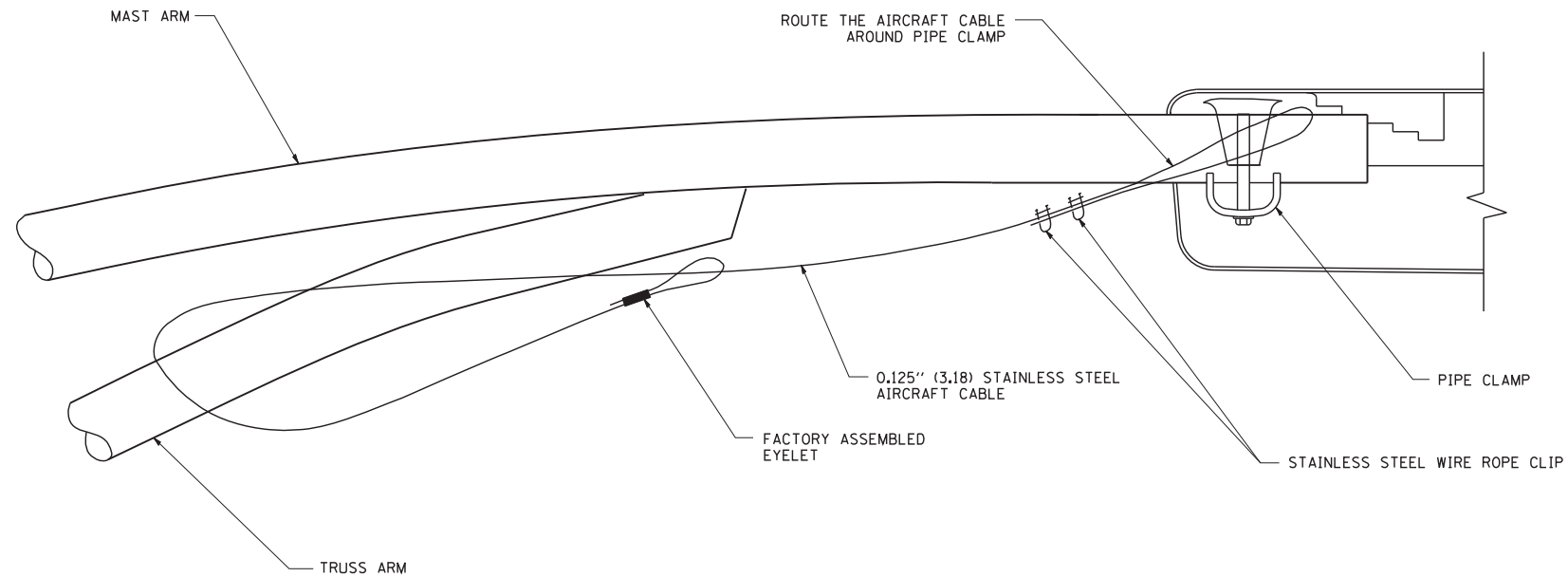
HANDHOLE DETAIL
(N.T.S.)

FILE NAME =	USER NAME = leyso	DESIGNED -	REVISED - D. DREW 05-07-92
ca:\pw\work\p\idot\leyso\d0108315\be410.dgn		DRAWN - LEY	REVISED - R. TOMSONS 09-06-00
	PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - R. TOMSONS 09-02-03
	PLOT DATE = 4/4/2013	DATE -	REVISED - R. TOMSONS 01-18-13

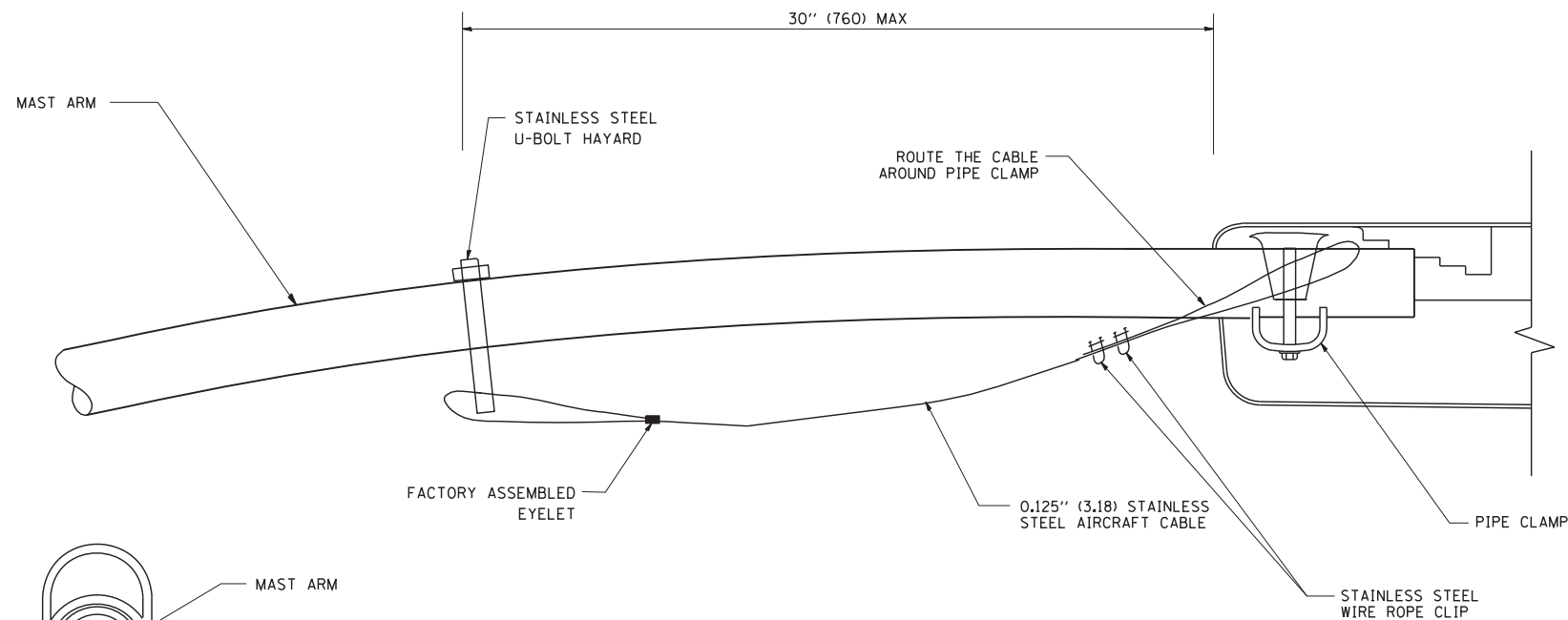
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DAVIT LIGHT POLE			
47'-6" (14.478 m) MOUNTING HEIGHT			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

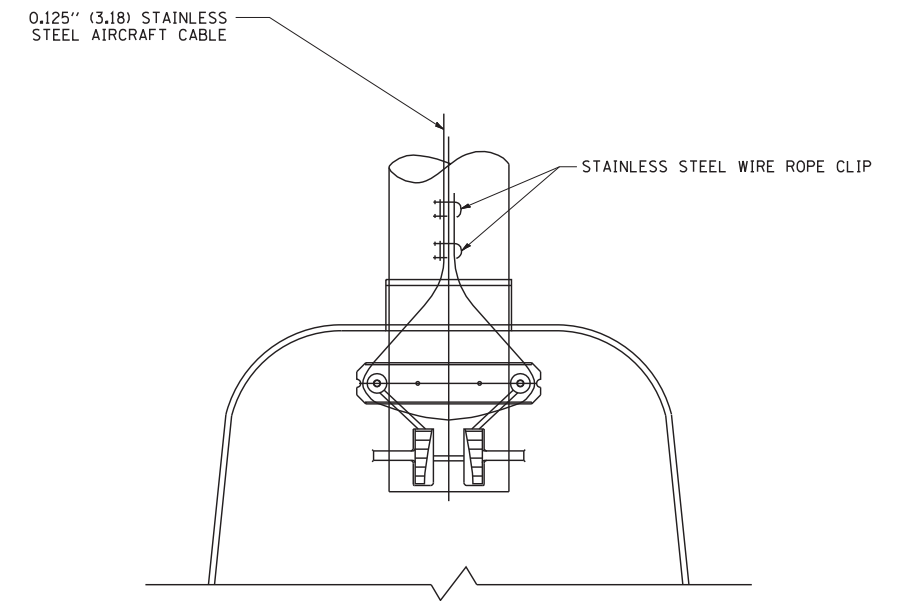
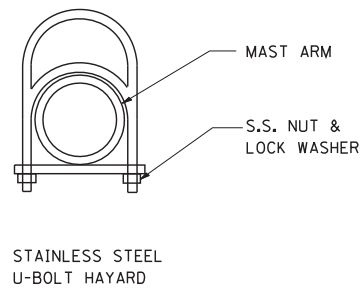
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	801
BE-410		CONTRACT NO. 60X07		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



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

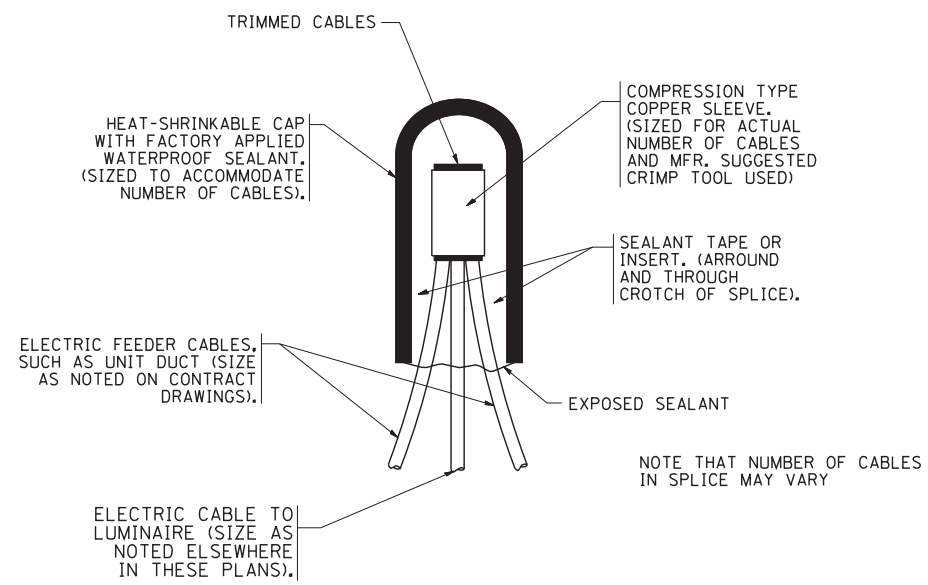


BOTTOM VIEW
N.T.S.

NOTES:

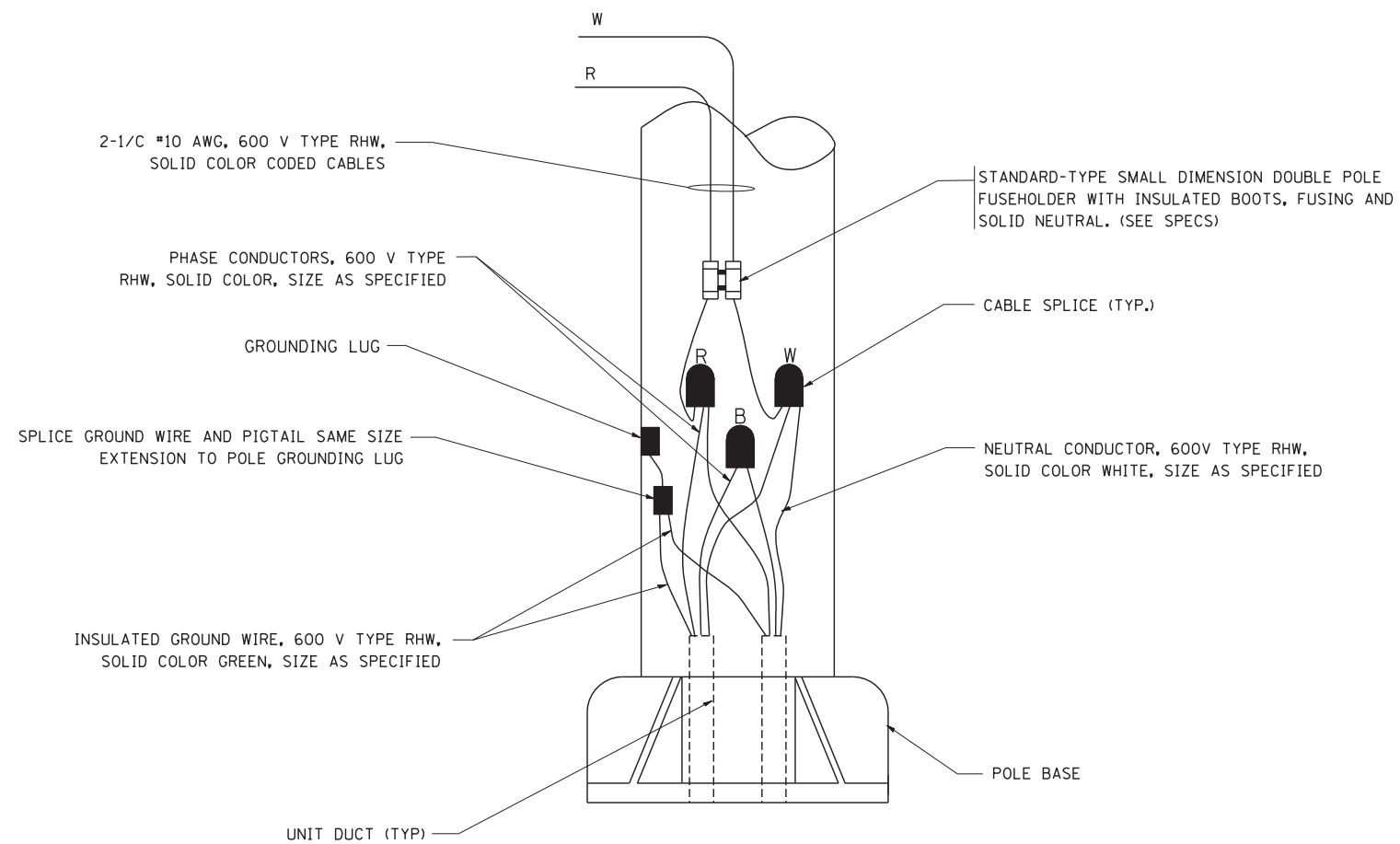
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700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

FILE NAME = W:\diststd\22x34\be701.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -								888	802
PLOT DATE = 1/4/2008	DATE -	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60X07			
											FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



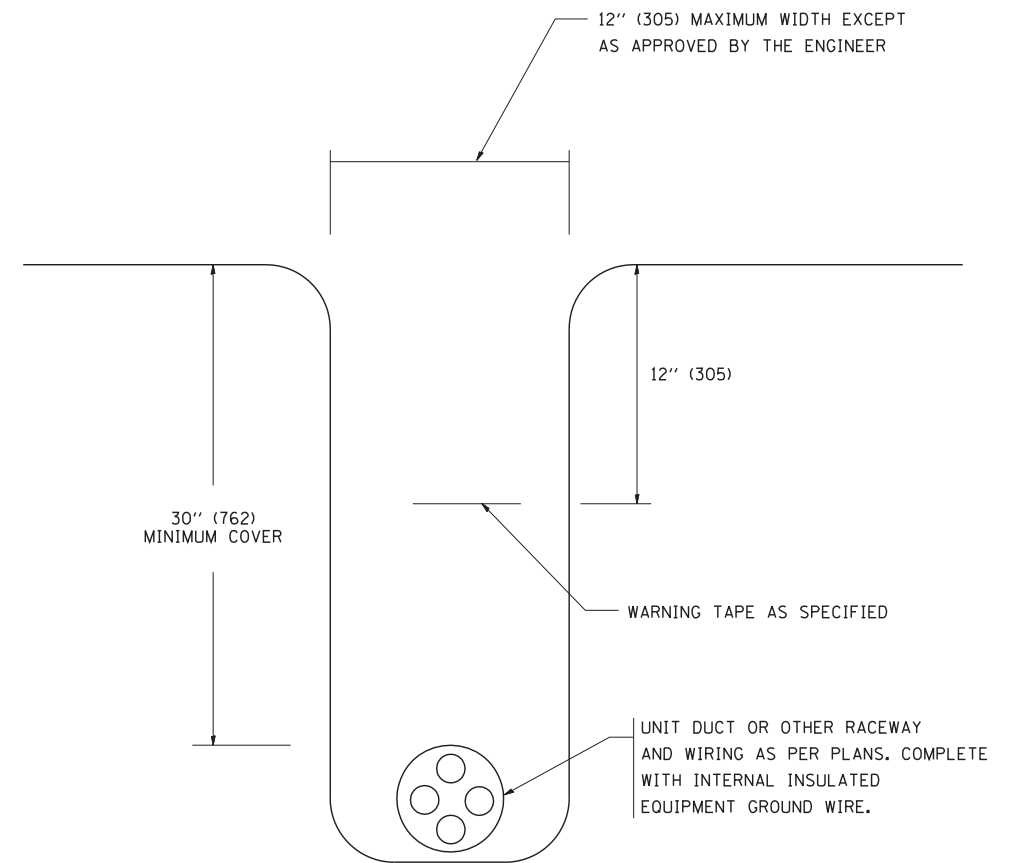
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME =
W:\diststd\22x34\be702.dgn

USER NAME = gaglionobt
DESIGNED -
DRAWN -
PLOT SCALE = 50.000' / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

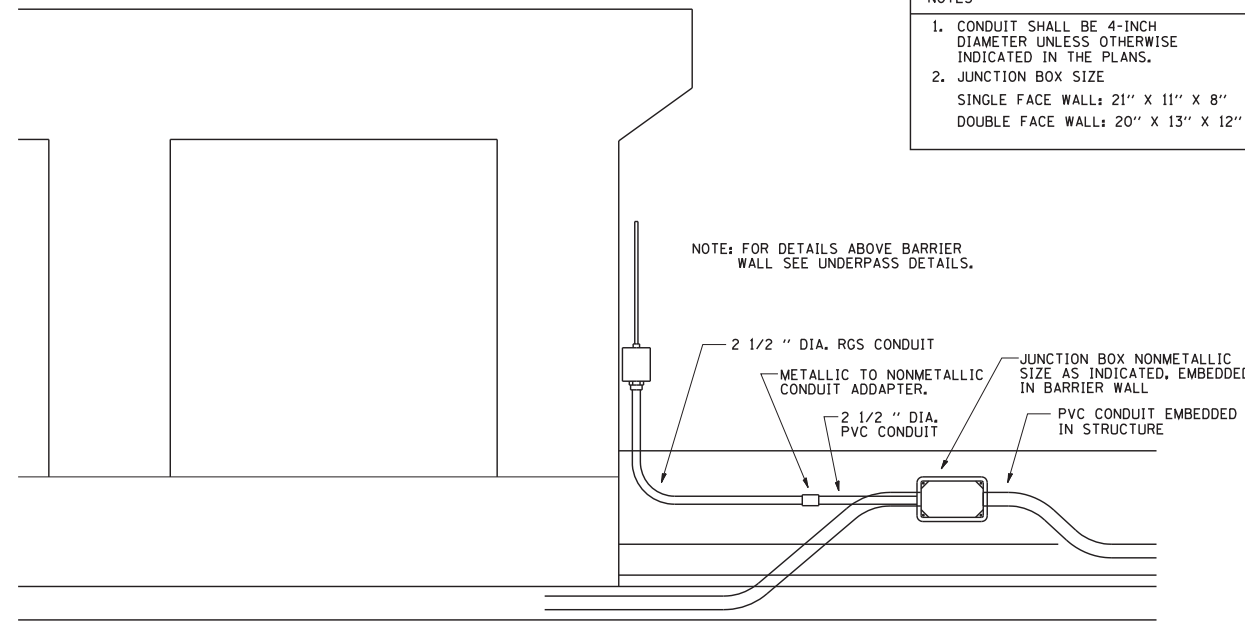
REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS
SHEET A**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	803
BE-702			CONTRACT NO. 60X07	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

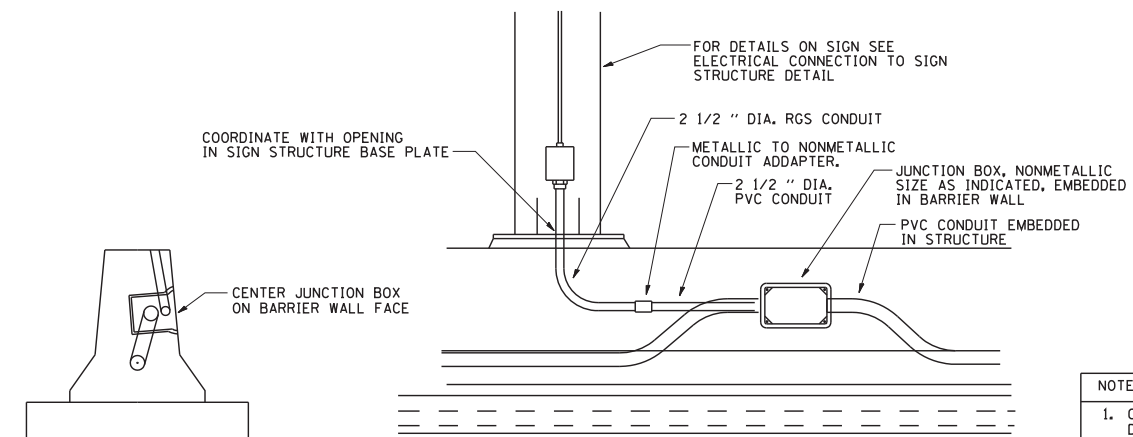


NOTES

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"

NOTE: FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

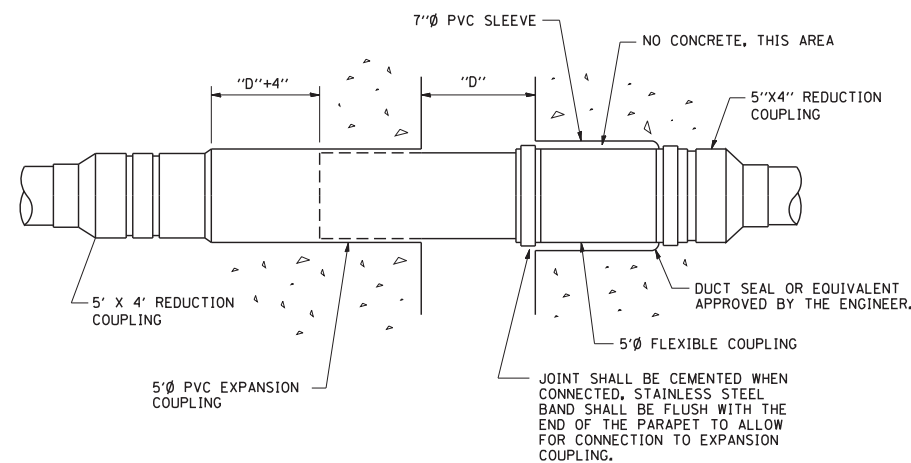
ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING



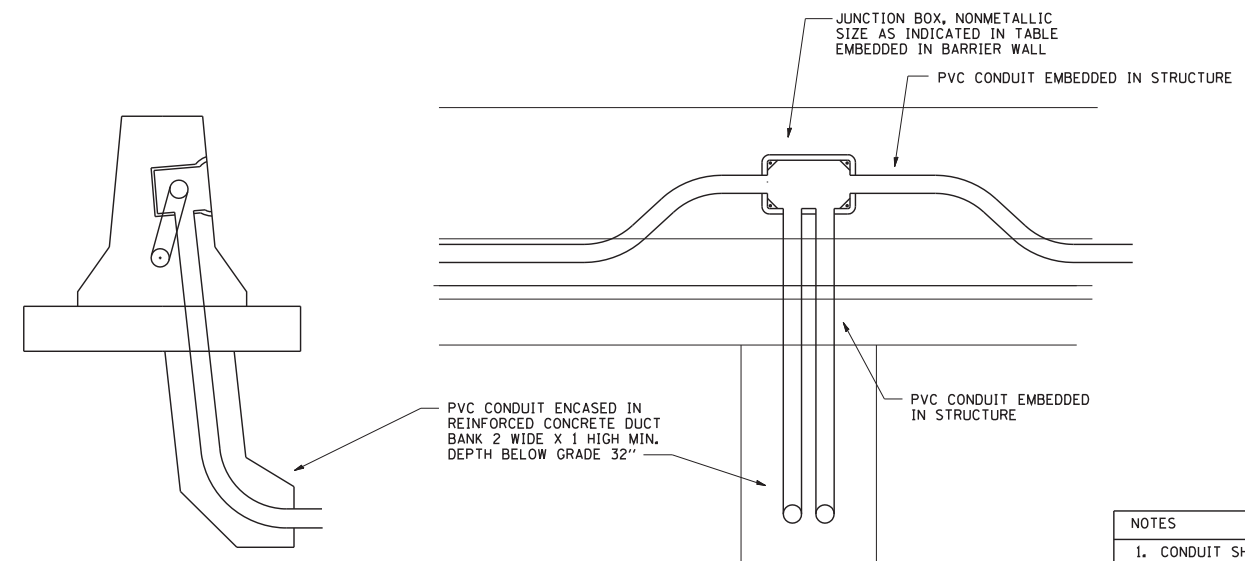
NOTES

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"

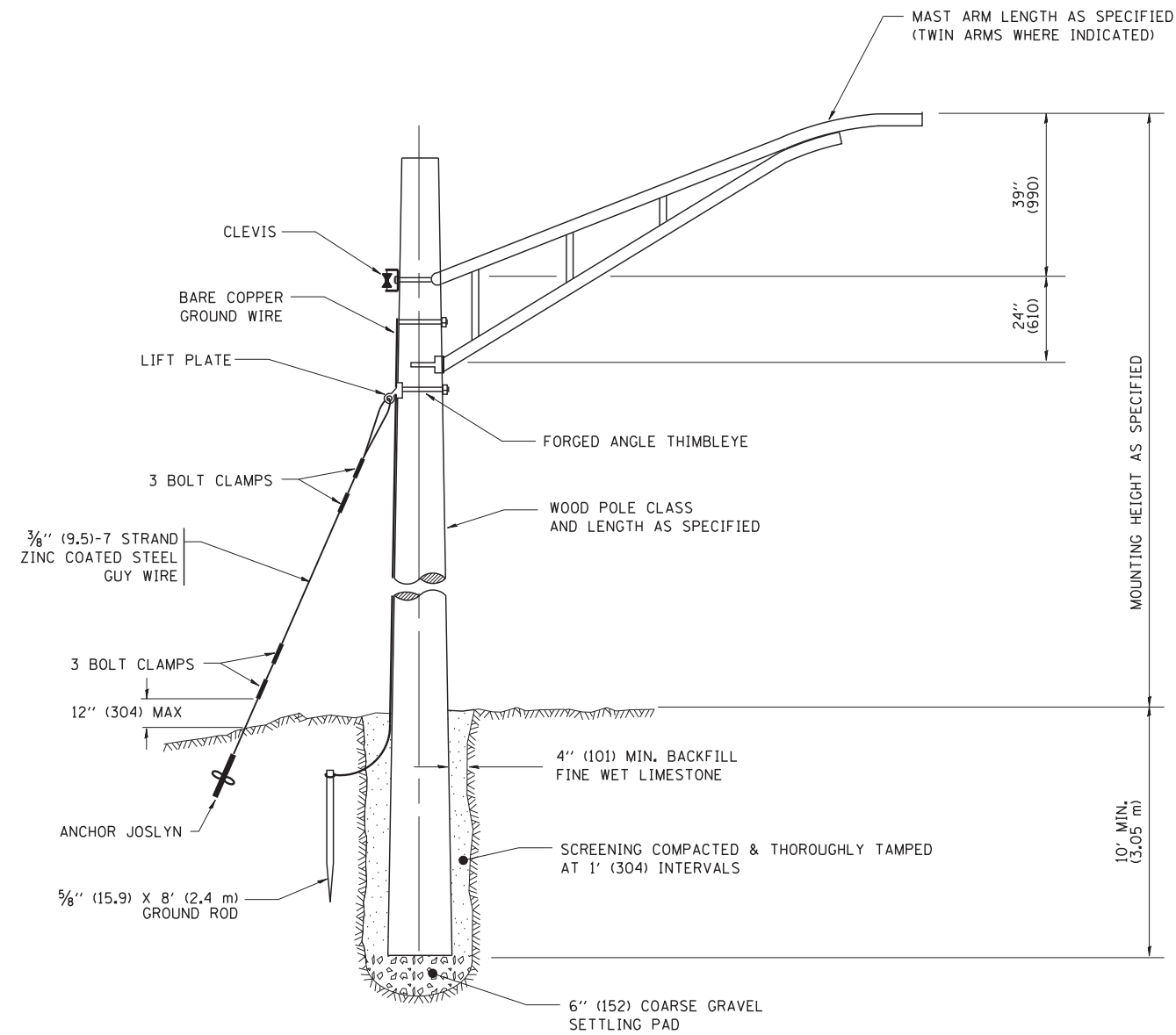
ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL

FILE NAME = be703.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED - REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/5/2009	DATE - 01-20-2009	REVISED -

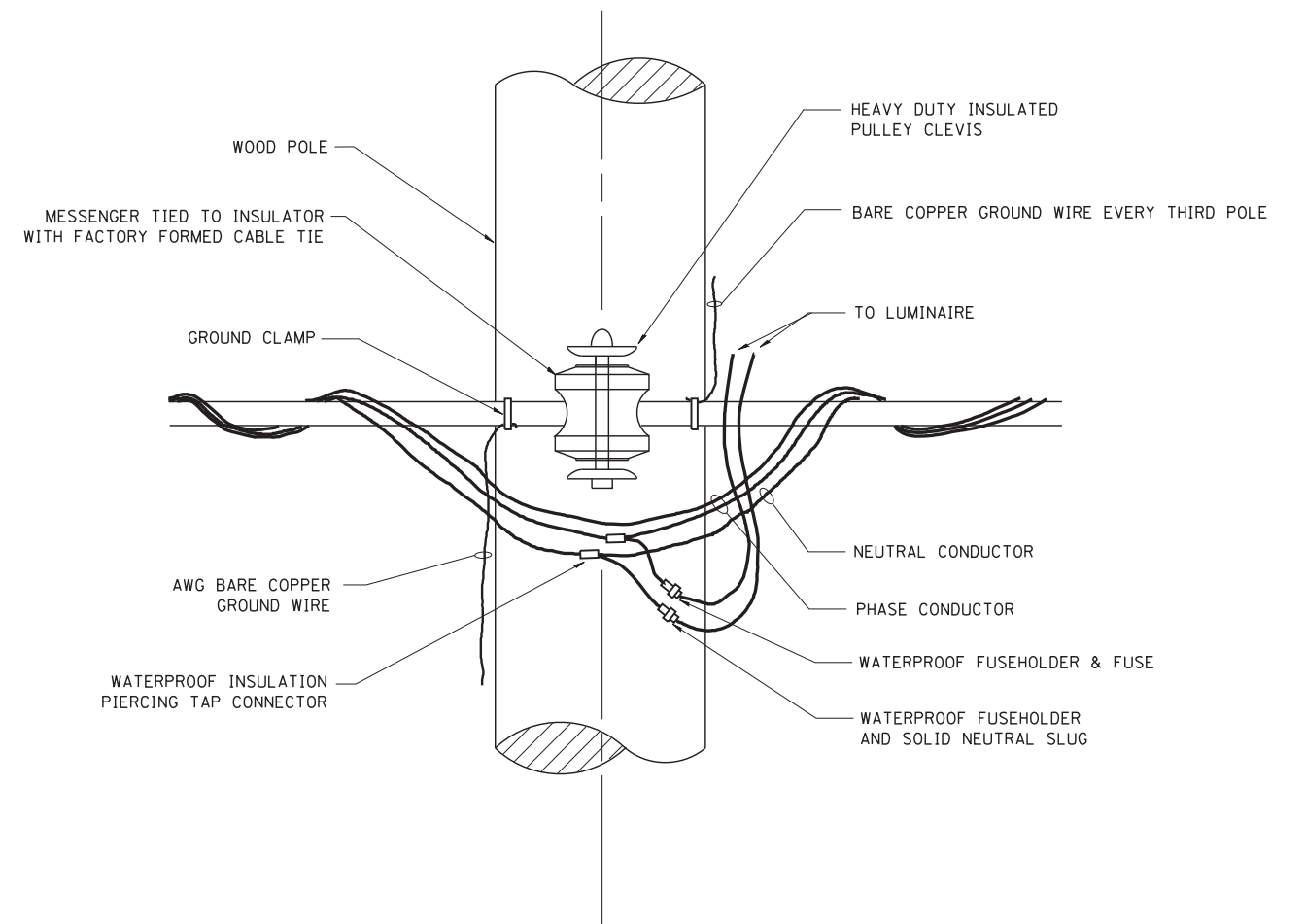
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ELECTRICAL DETAILS, SHEET B			
J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	804
BE-703		CONTRACT NO. 60X07		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

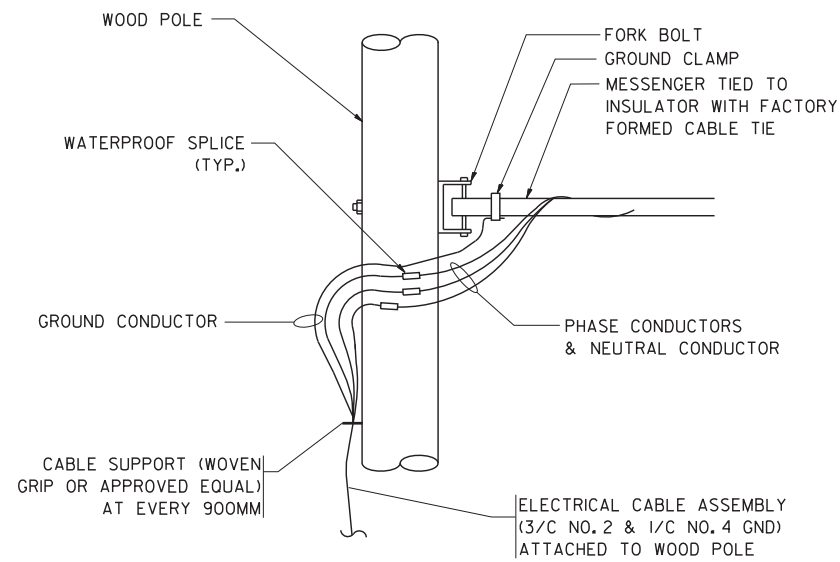


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

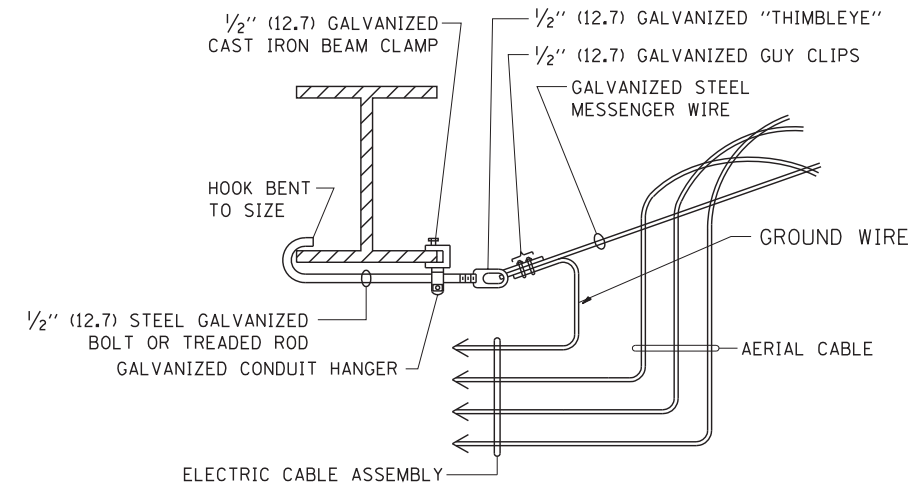
NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME = W:\diststd\22x34\be800.dgn	USER NAME = gaglionobt	DESIGNED - DRAWN -	REVISED - 08-08-03 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS 888	SHEET NO. 805
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-800		CONTRACT NO. 60X07	
	PLOT DATE = 1/4/2008	DATE -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



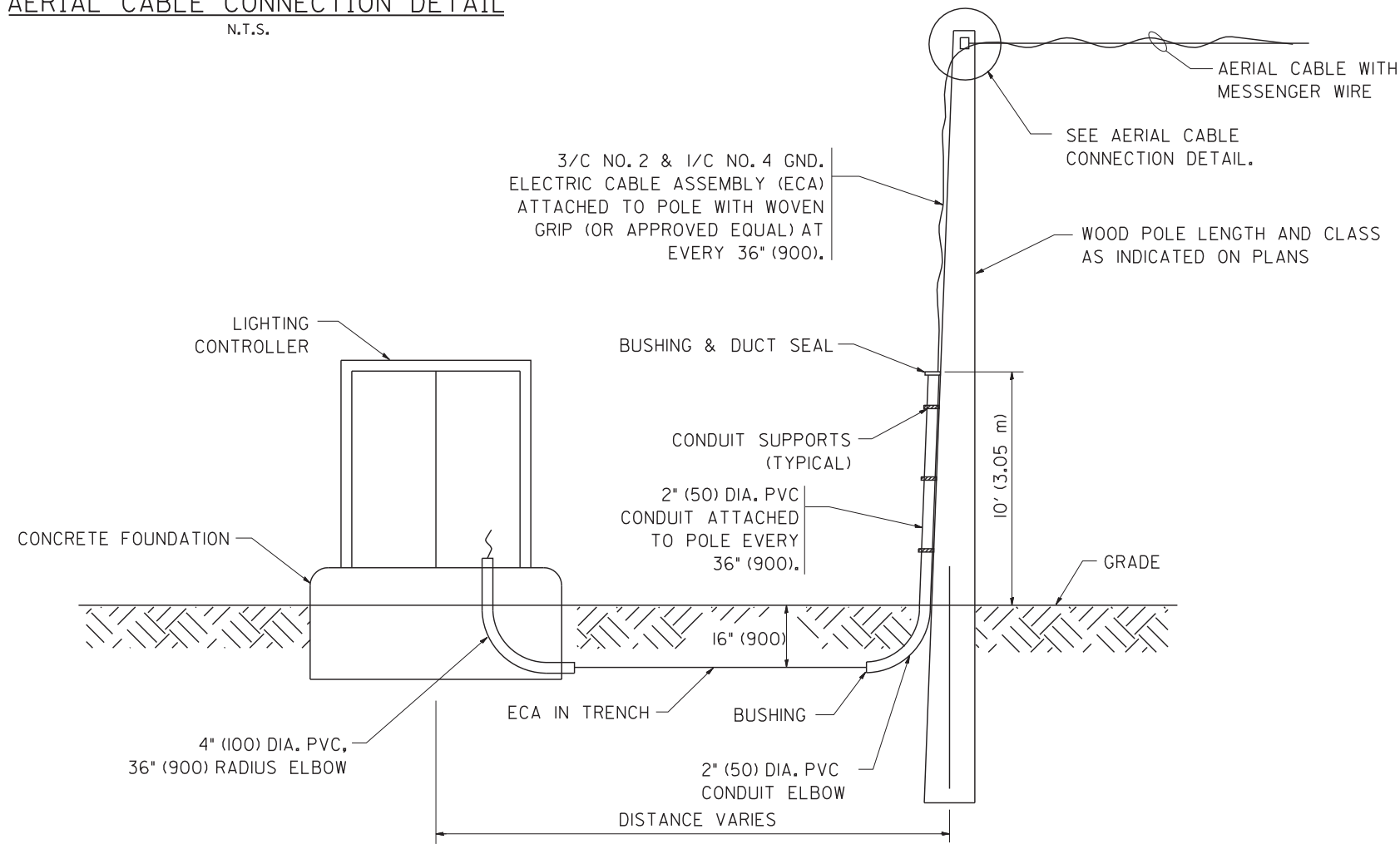
AERIAL CABLE CONNECTION DETAIL
N.T.S.



**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:\diststd\22x34\be001.dgn

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

DESIGNED -
DRAWN -
CHECKED -
DATE -

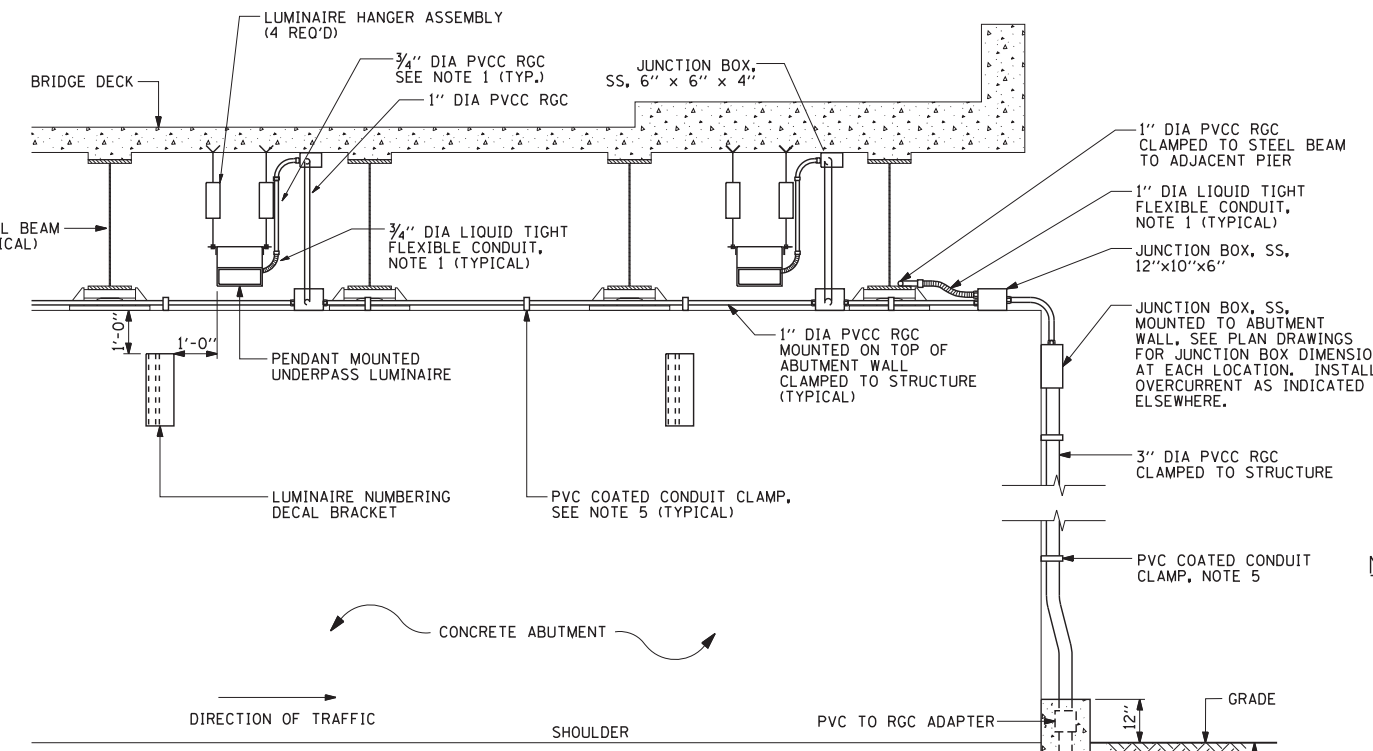
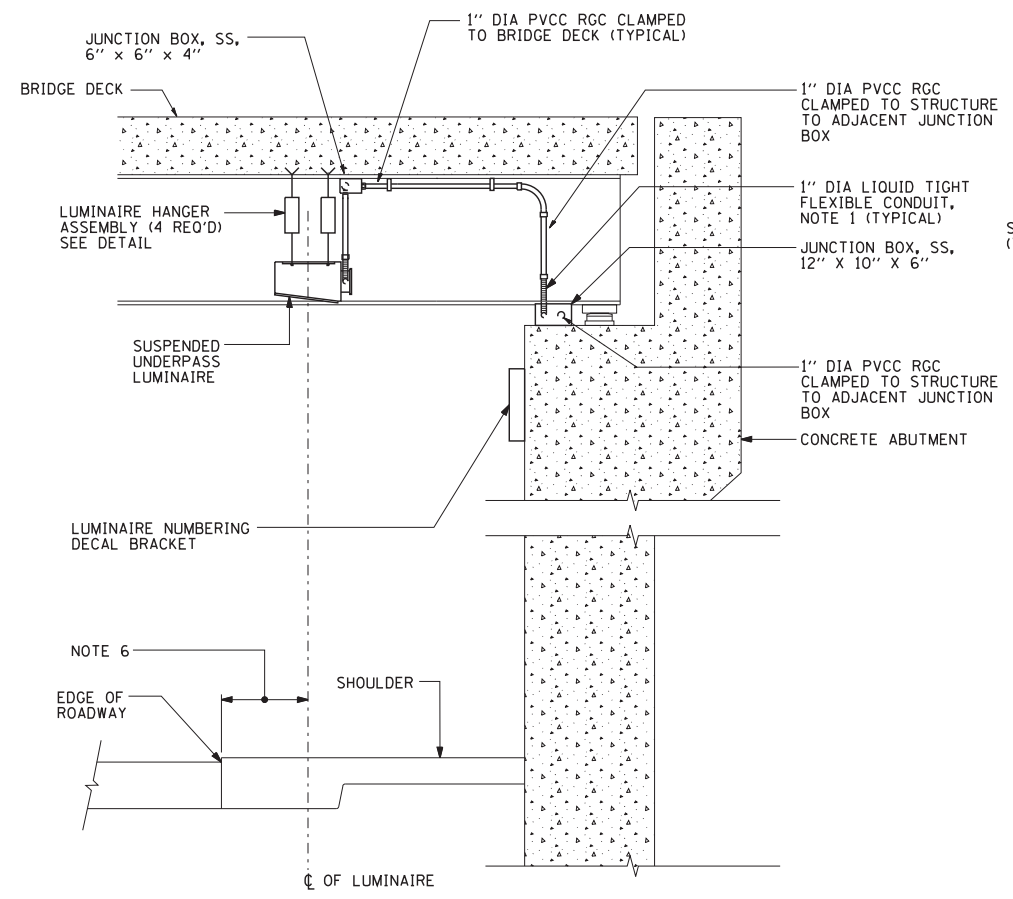
REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

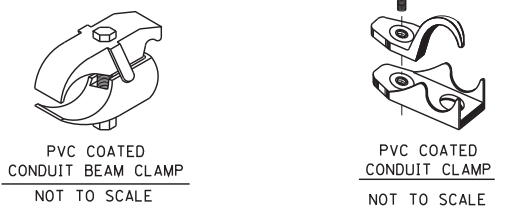
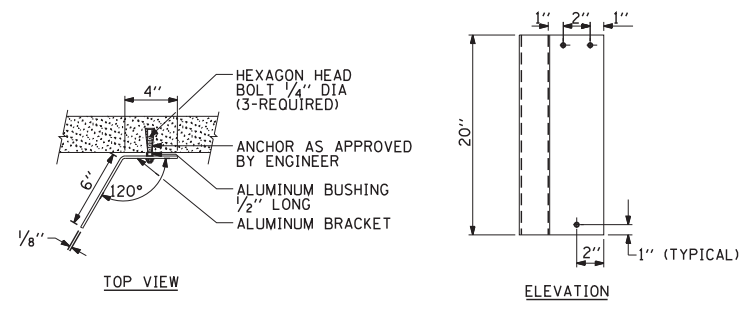
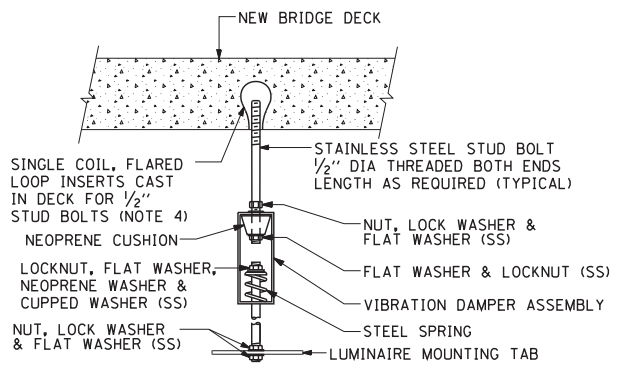
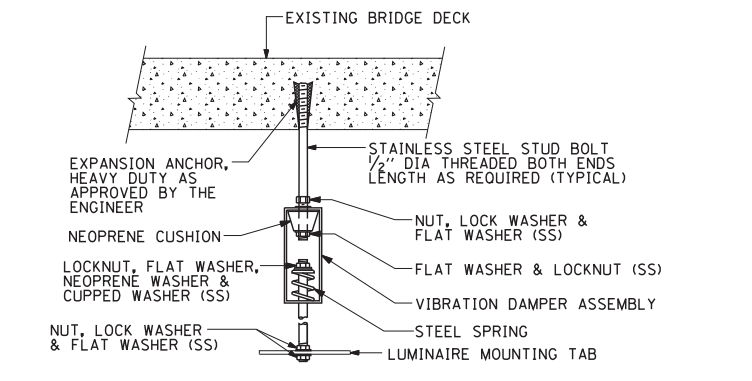
TEMPORARY AERIAL CABLE INSTALLATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	806
BE-001		CONTRACT NO. 60X07		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
 - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

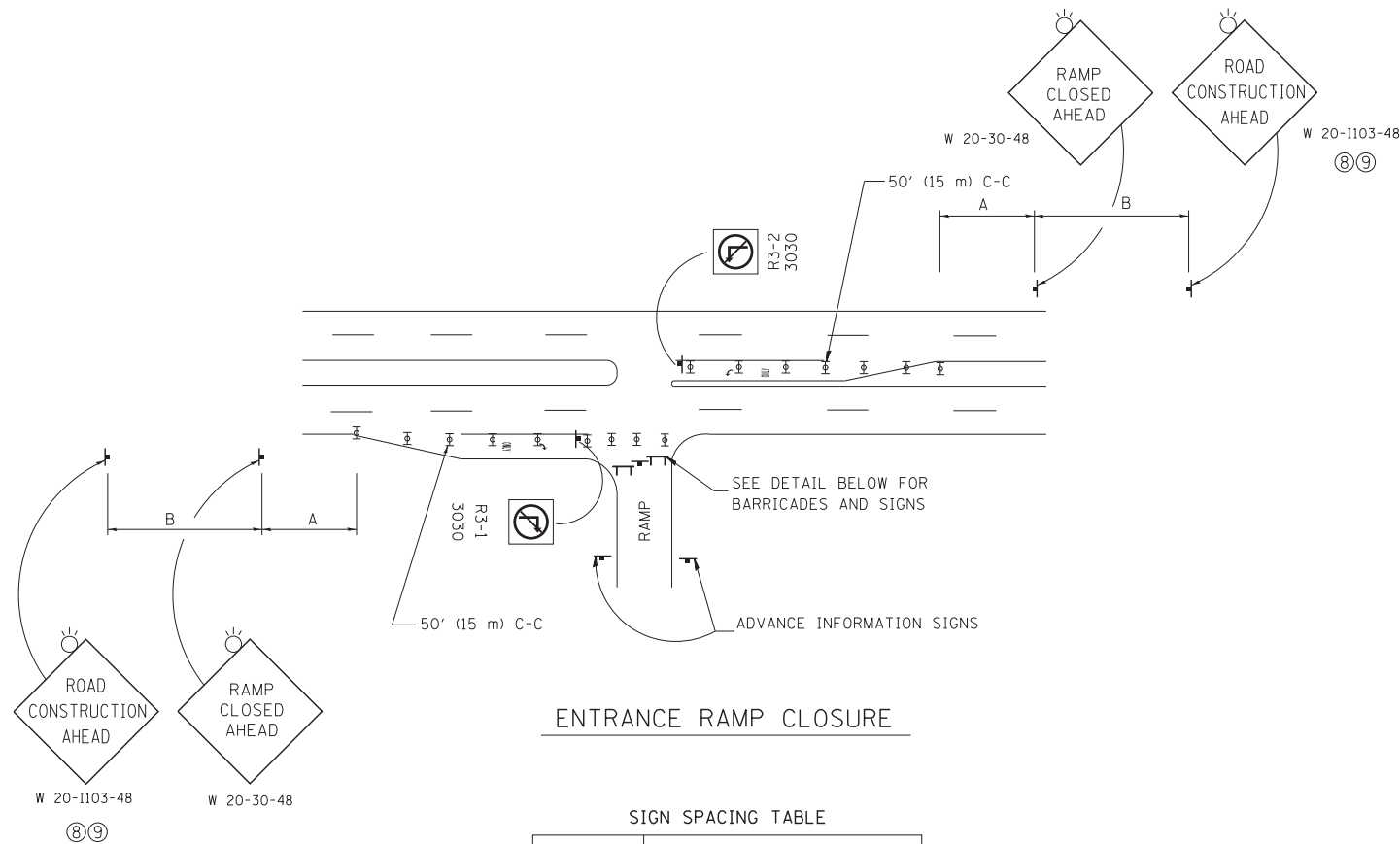
TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

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		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-900		888	807
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	CONTRACT NO. 60X07	

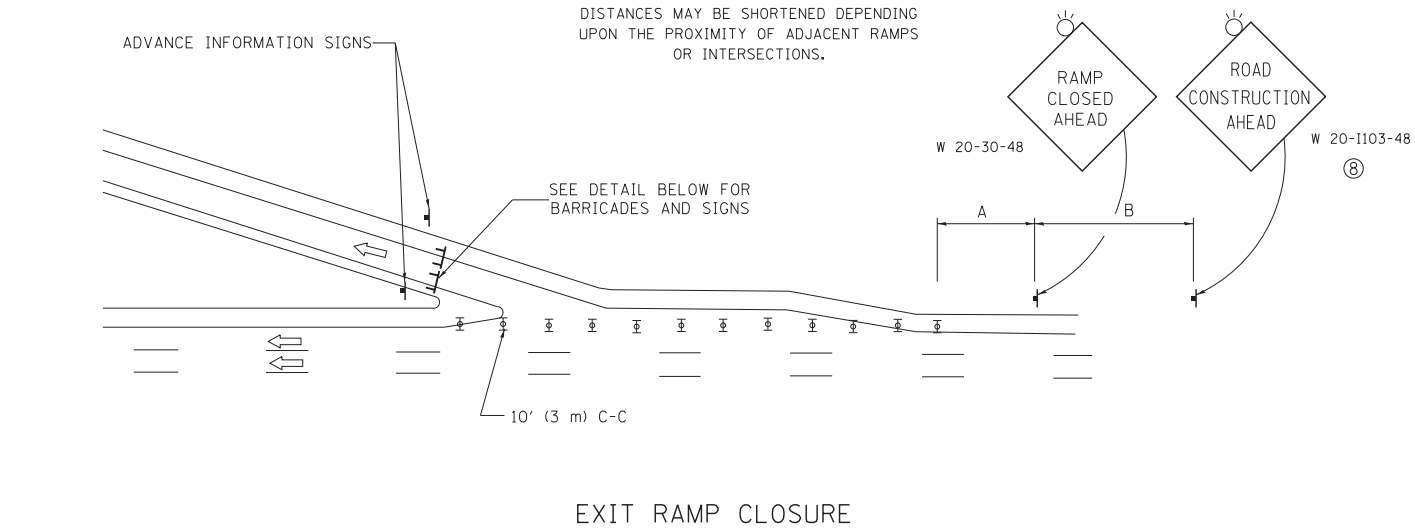


ENTRANCE RAMP CLOSURE

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)

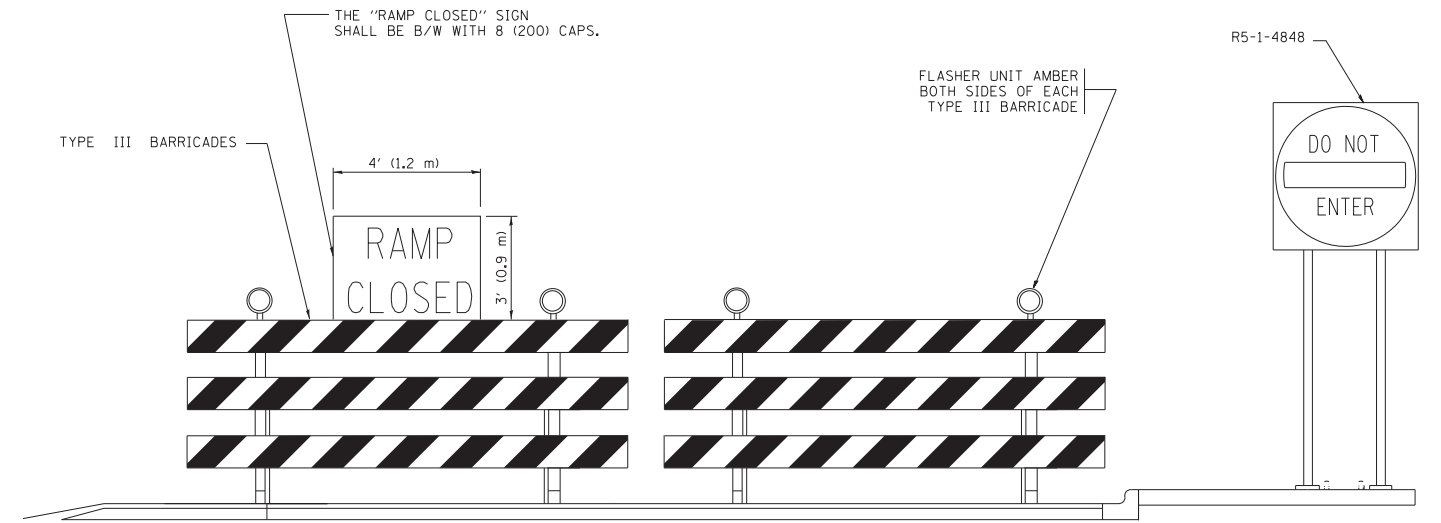
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

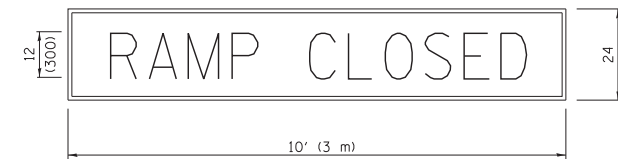
SYMBOLS

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

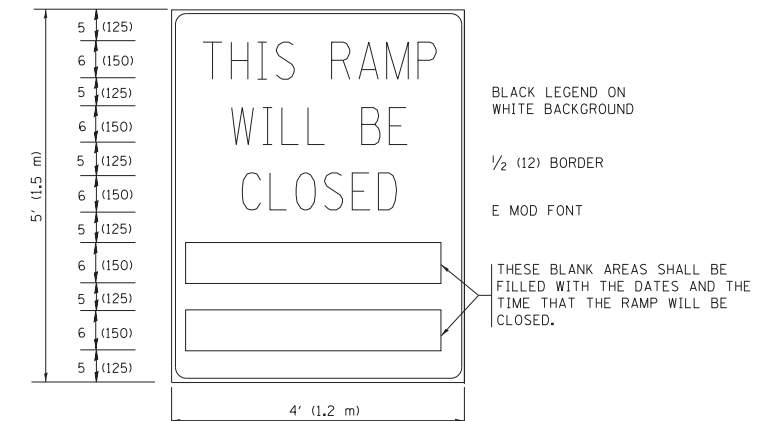
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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.

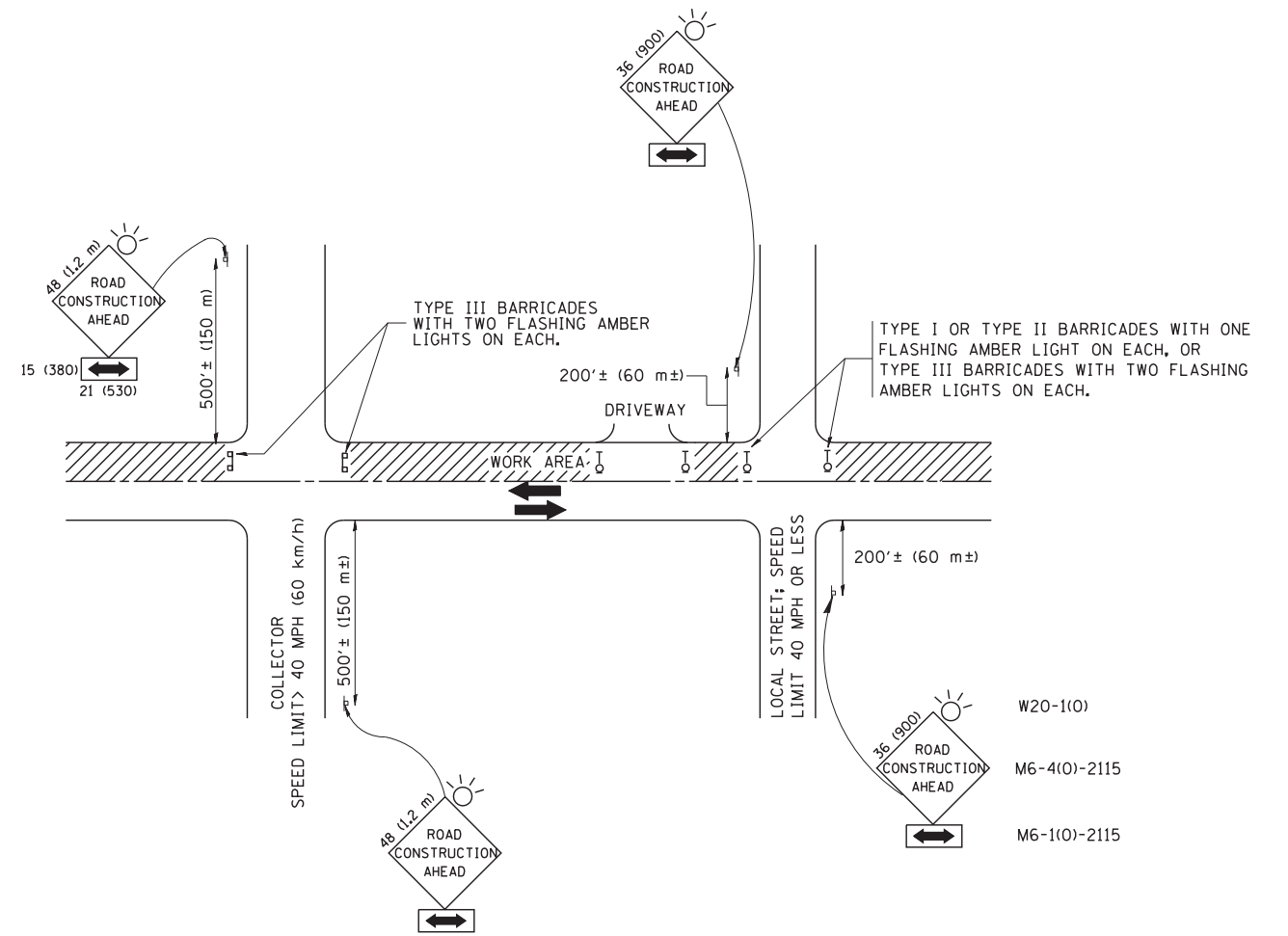
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	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - SPB 12-09
	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13

**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		888	808
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X07	



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

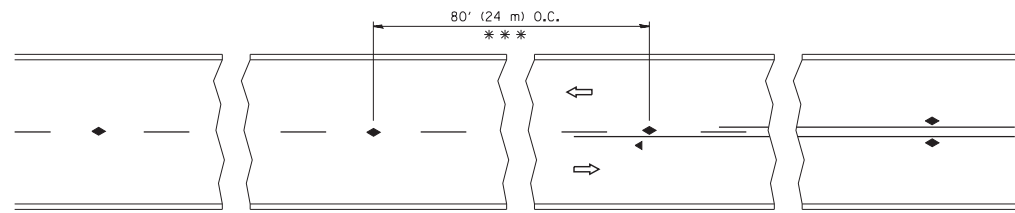
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

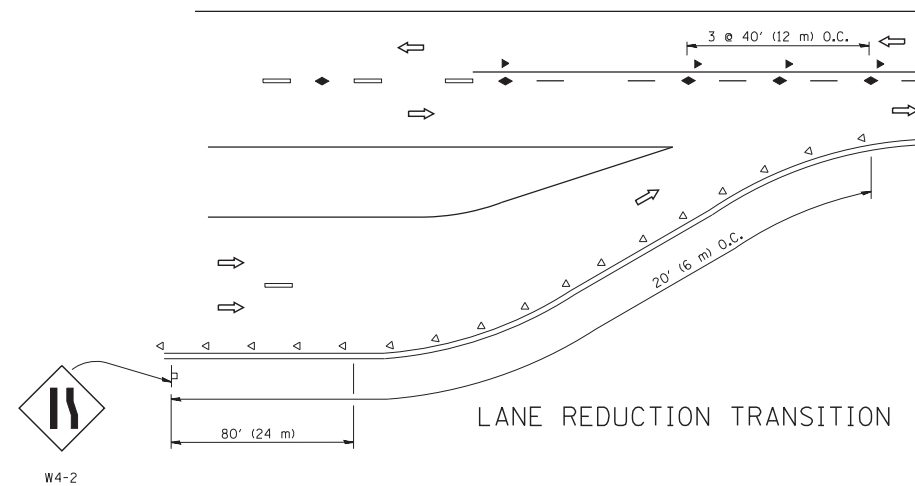
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 60X07	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

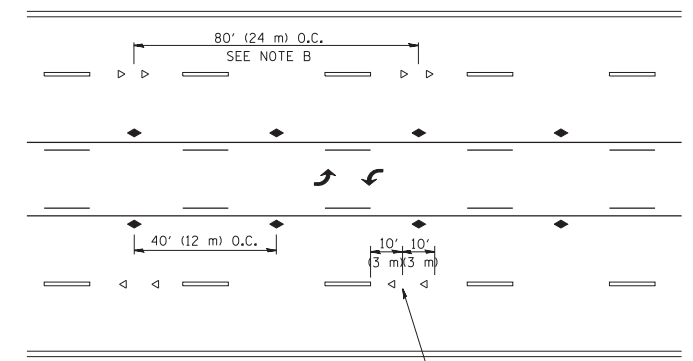


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

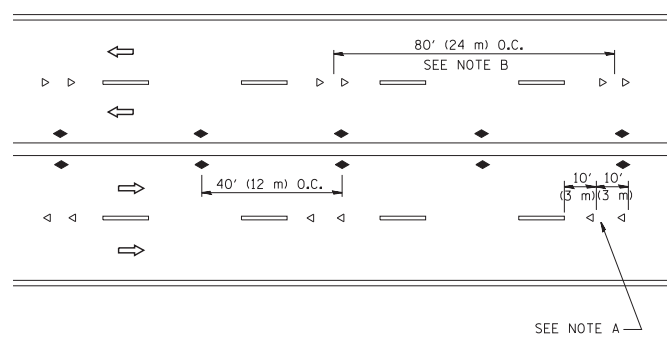
TWO-LANE/TWO-WAY



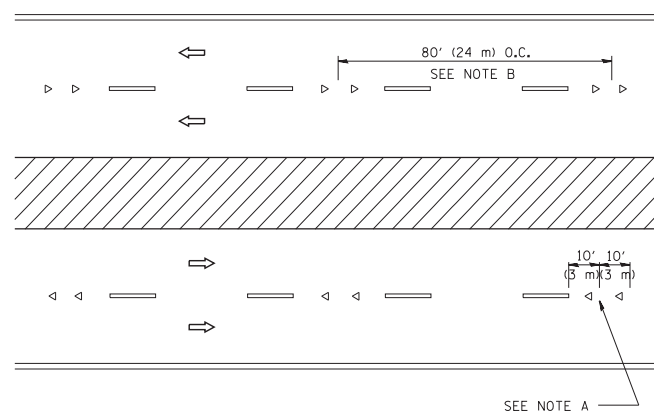
LANE REDUCTION TRANSITION



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

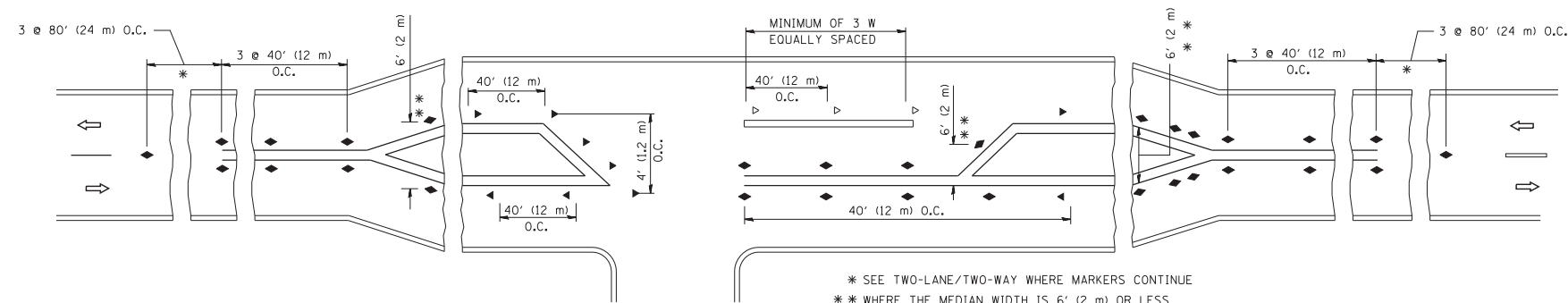
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



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

LEFT TURN

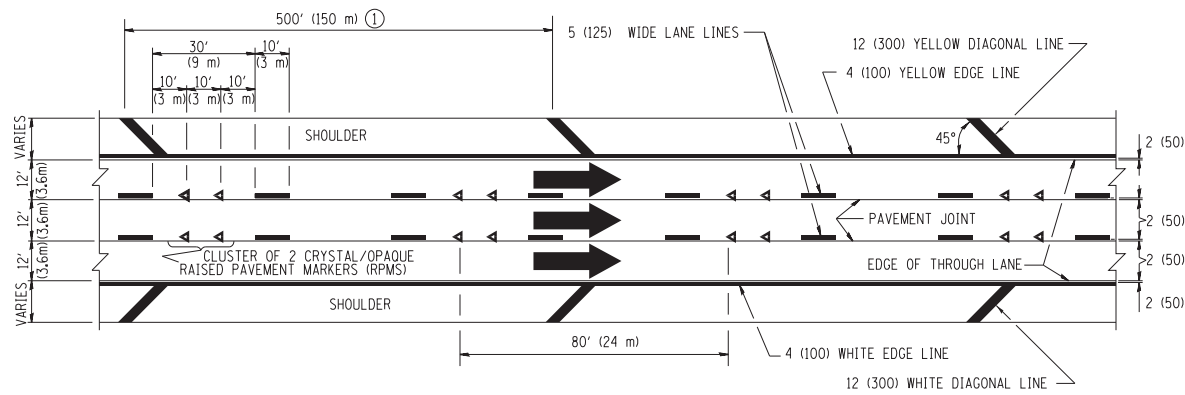
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = lryso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
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		PLOT SCALE = 50.000' / IN.	REVISED - T. RAMMACHER 01-06-00
		PLOT DATE = 3/2/2011	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

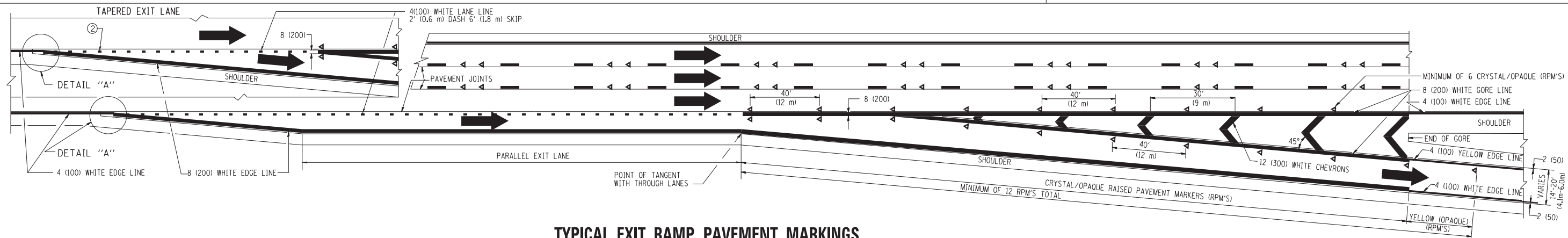
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-11			CONTRACT NO. 60X07	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

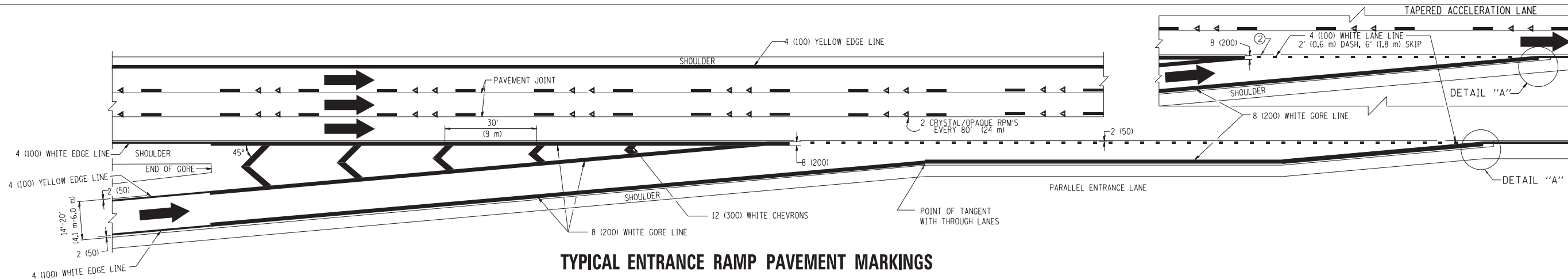


TYPICAL EDGE LINES & LANE LINES

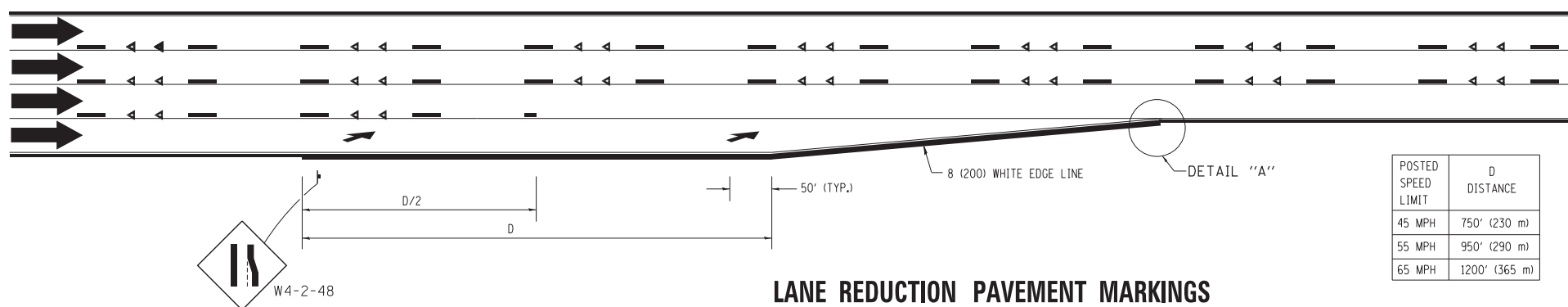
- PAVEMENT MARKING MATERIALS**
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLaid OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
 3.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



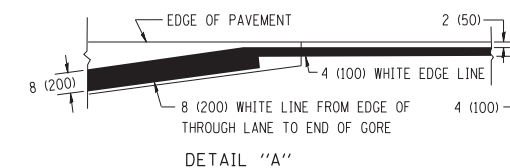
TYPICAL EXIT RAMP PAVEMENT MARKINGS



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.

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

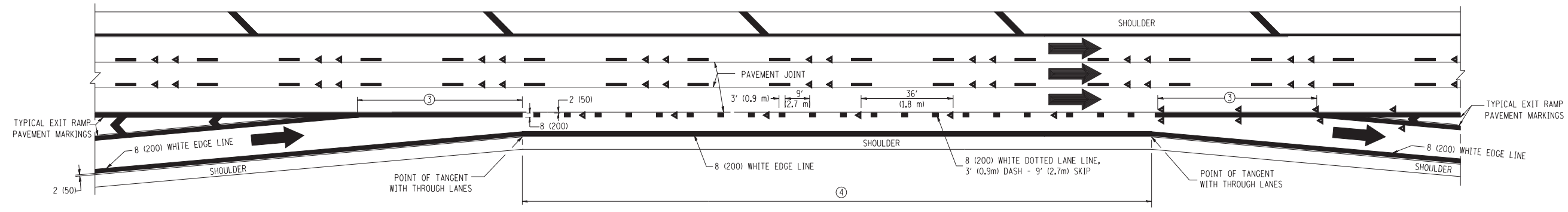
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	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - S.P.B. 01-10
	PLOT DATE = 7/8/2013	DATE - 01-90	REVISED - M.D. 05-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

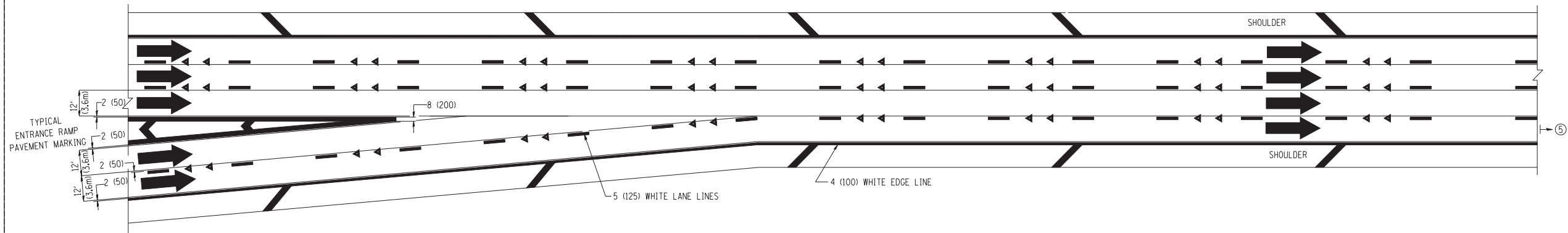
**MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS**

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

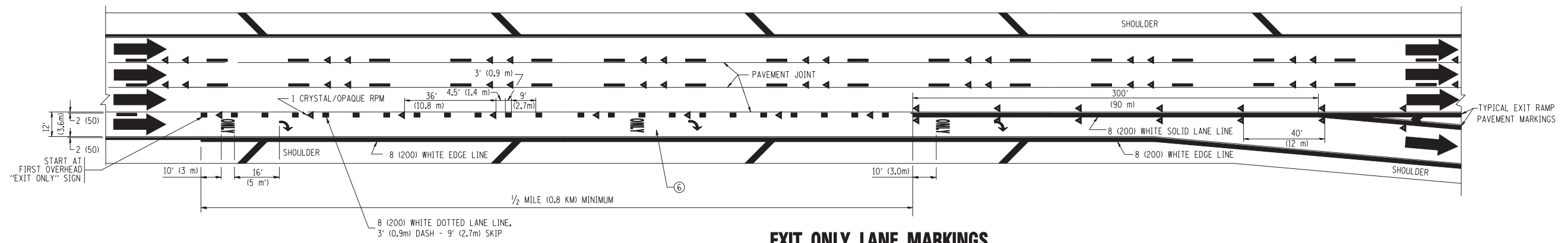
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	TC-12		888	812
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X07	



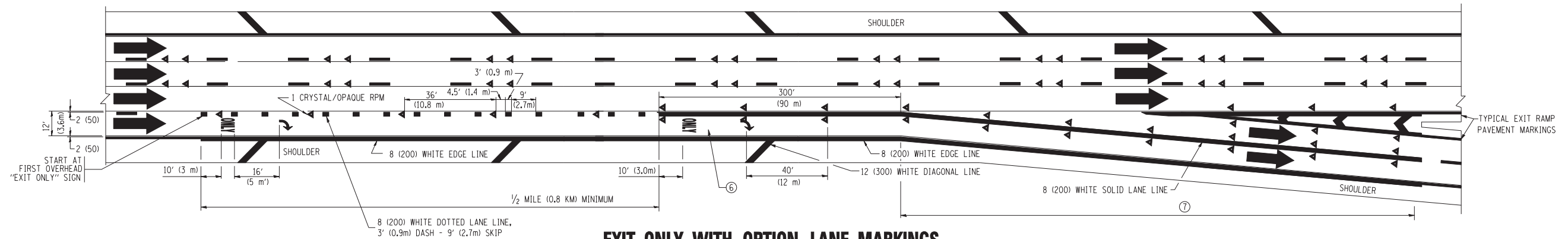
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

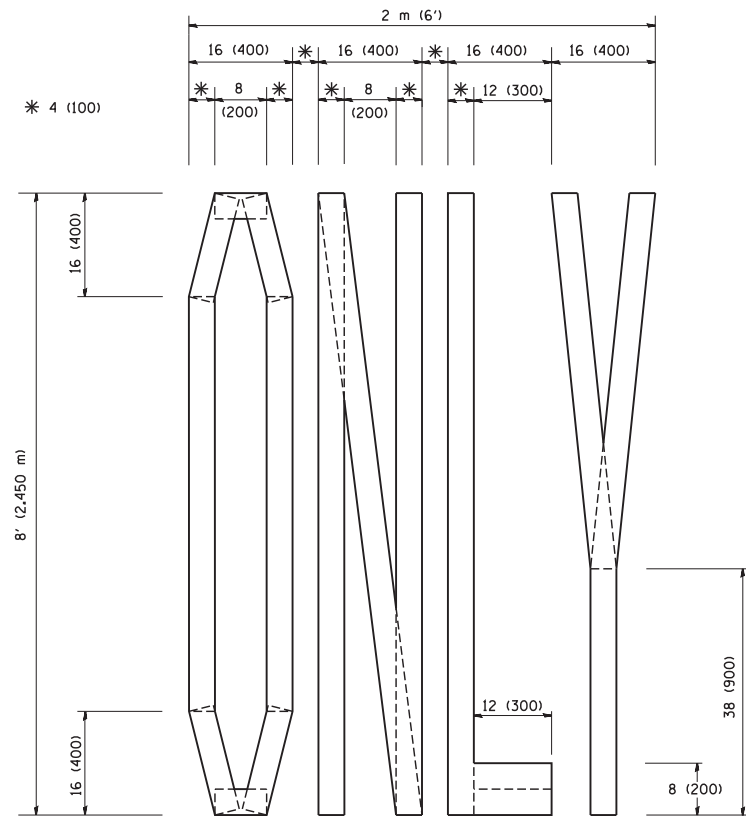
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME =	USER NAME = leysa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
ce:\pw\work\PWID07\LEYSAd0108315\tc12.dgn		DRAWN -	REVISED - J.A.F. 02-06
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	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

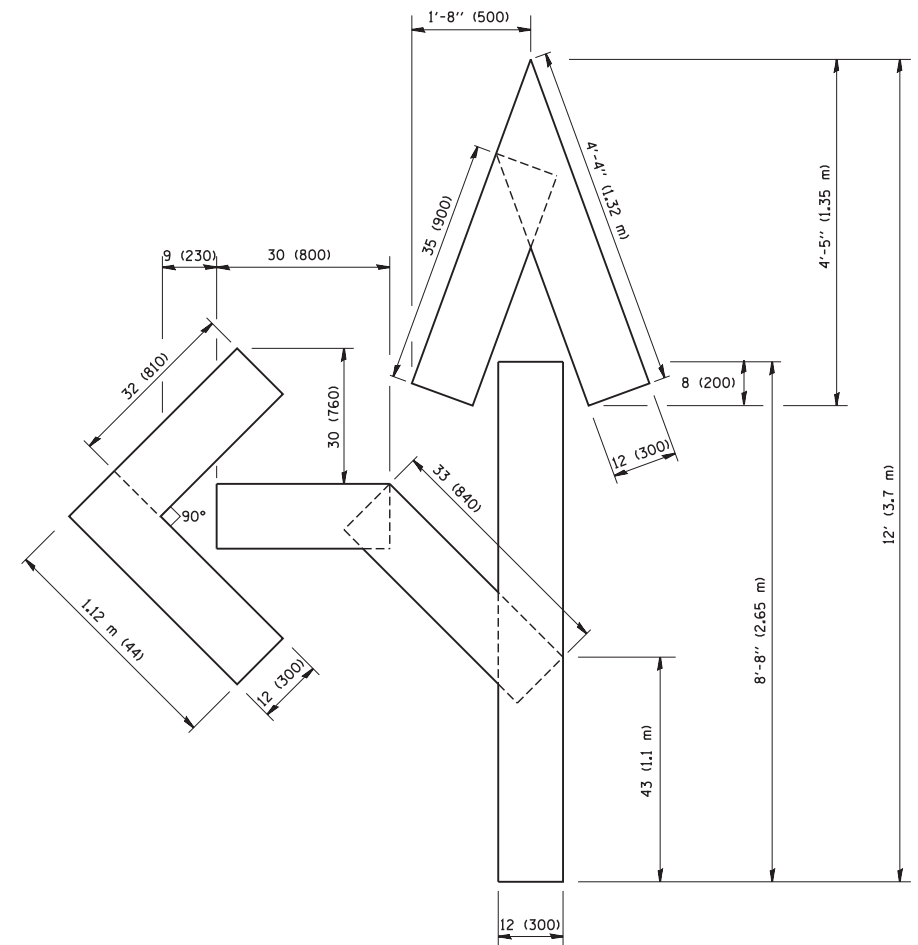
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

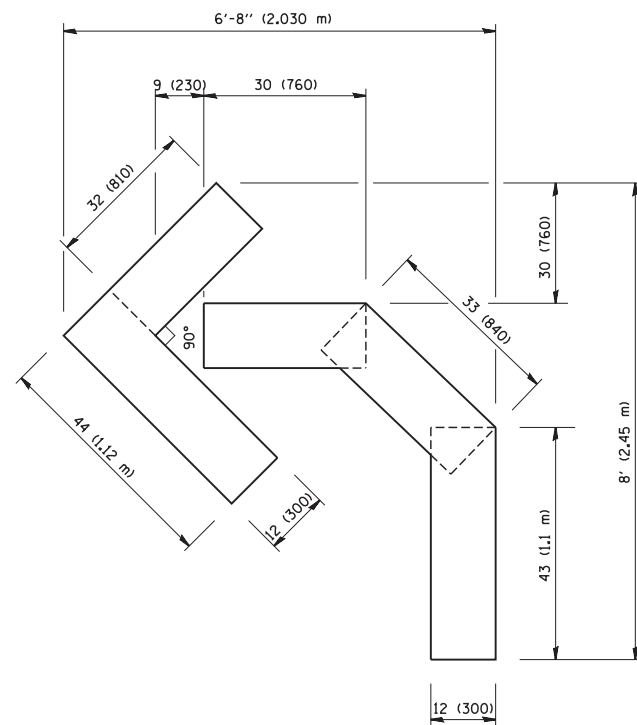
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	813
TC-12		CONTRACT NO. 60X07		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

FILE NAME = W:\diststd\22x34\16.dgn	USER NAME = gaglianobt	DESIGNED - DRAWN -	REVISED -T. RAMMACHER 06-05-96 REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

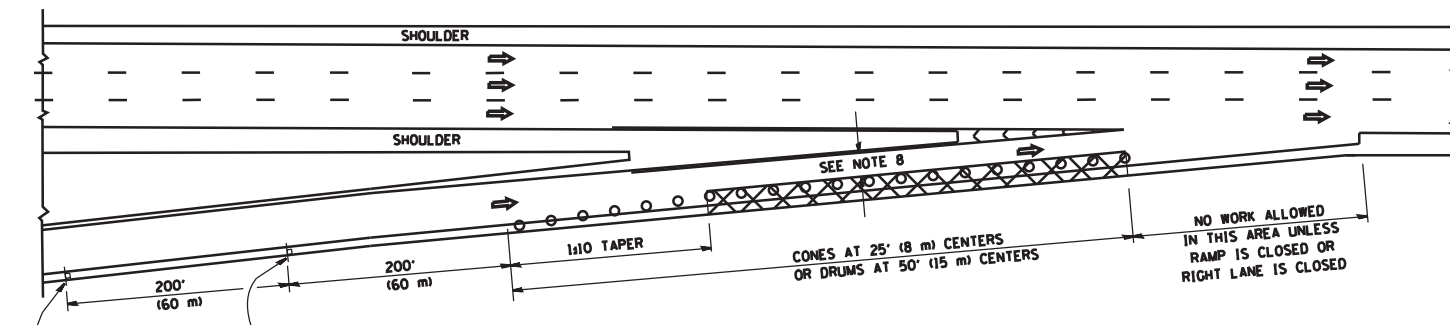
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

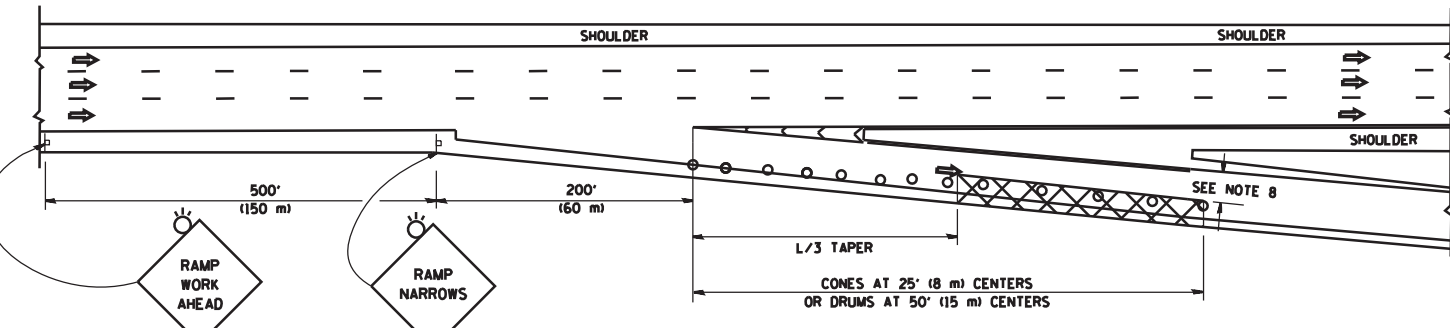
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

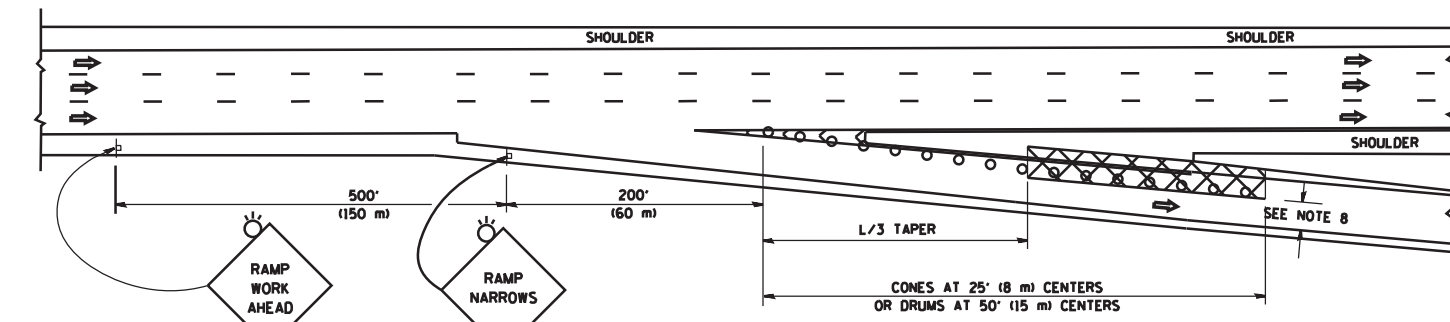
PARTIAL RAMP CLOSURE DETAILS



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

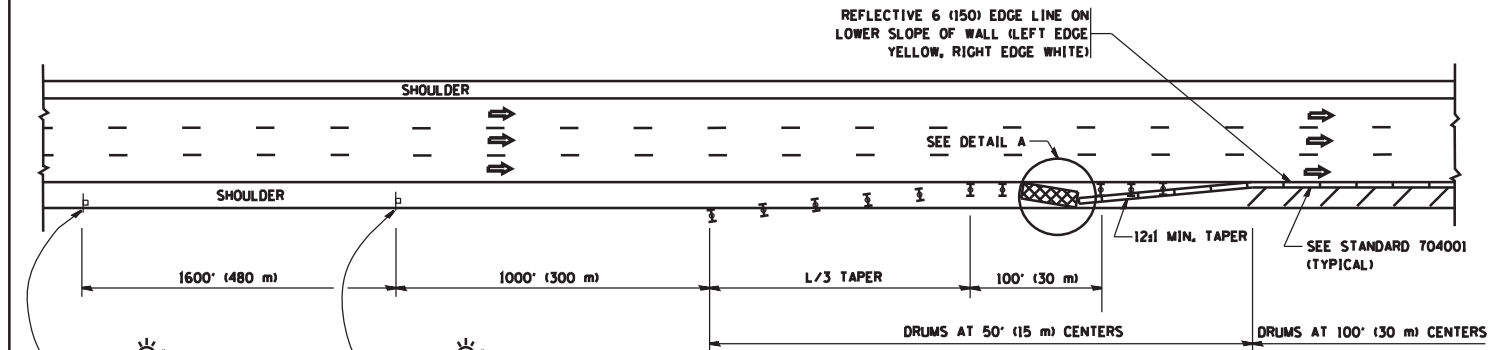
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

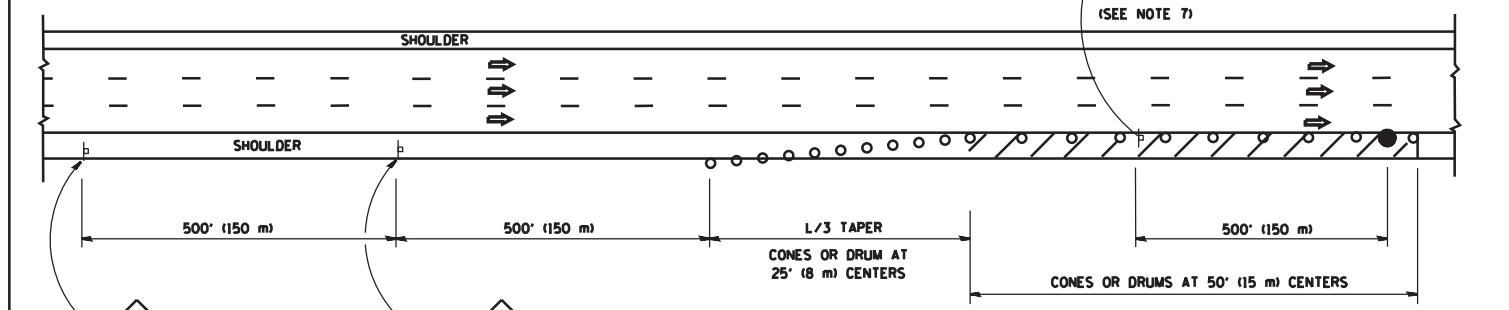
SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH
	$L = 0.65(WNS)$ $L = (WNS)$

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 NIGHTIME 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

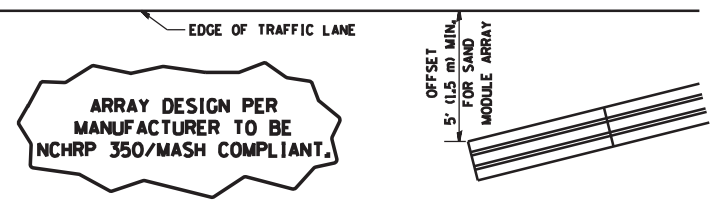


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



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

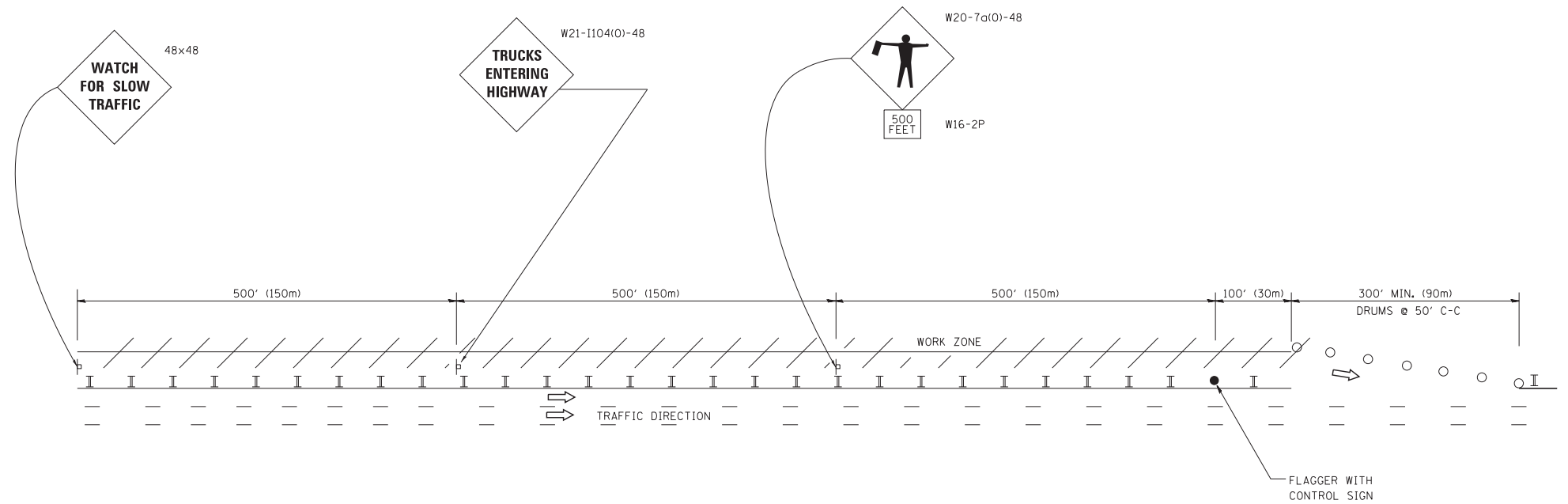
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL 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 ENCR OACHMENT 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.

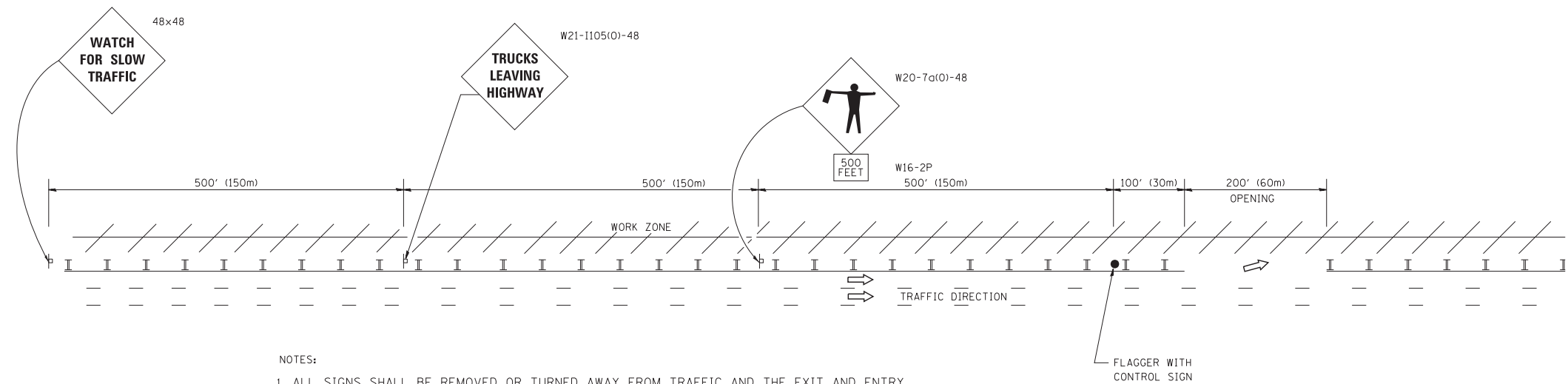
FILE NAME =	USER NAME = lveysa	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwwork\p\dot\lveysa\0108315\ct17.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.						888	815
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - S.P.B. 12-09		CONTRACT NO. 60X07							
	PLOT DATE = 4/17/2014	DATE - 11-96	REVISED - M.D. 06-13		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 =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06
ct:\pw\work\p1dot\footemj\d0108315\tc18.dgn		DRAWN -	REVISED - S.P.B. 01-07
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
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**


**FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS**


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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-18		888	816
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X07	

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

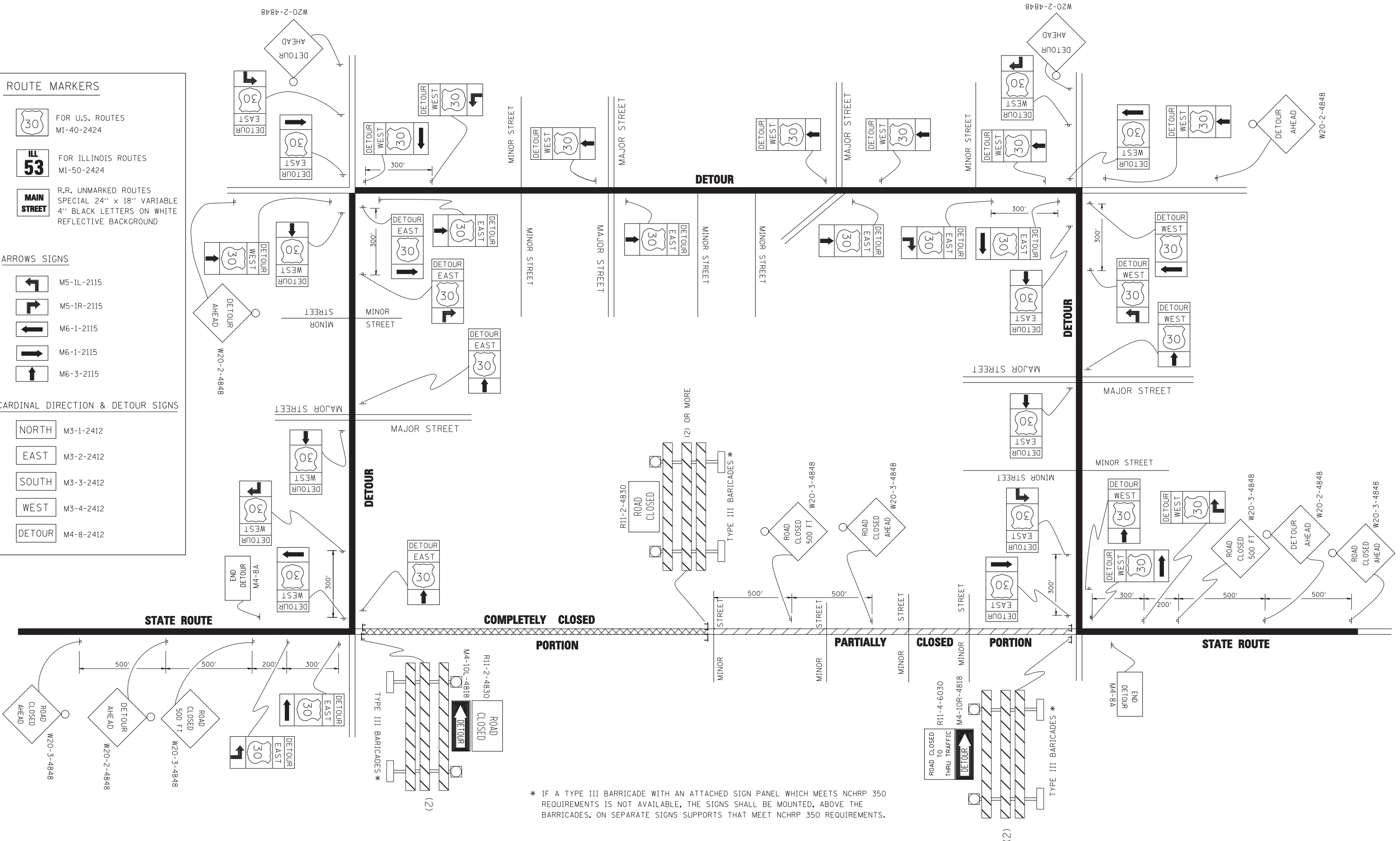
 NORTH M3-1-2412

 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.

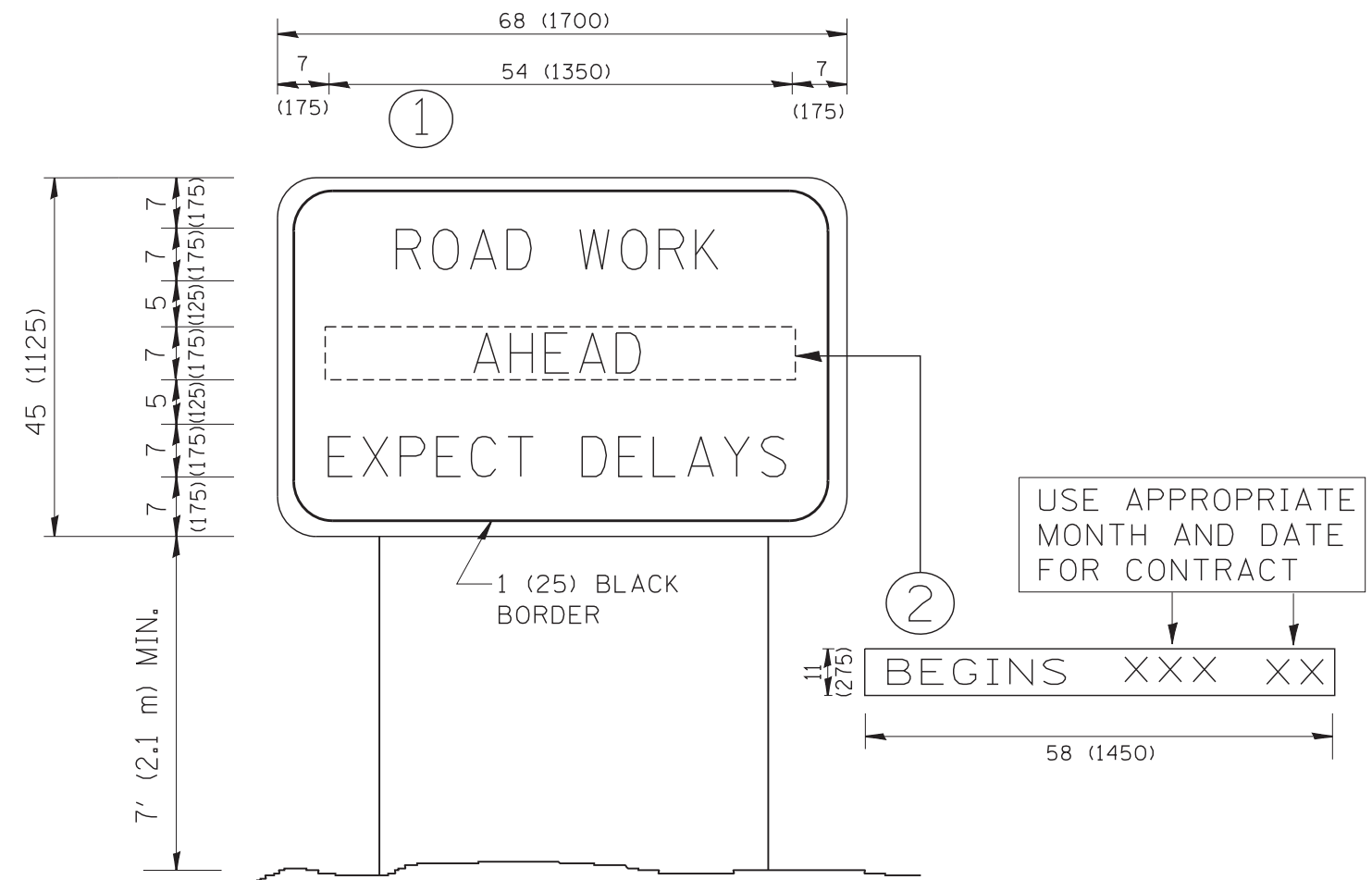
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		PLOT SCALE = 49.9999' / IN.	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-21		888	817
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X07	



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.

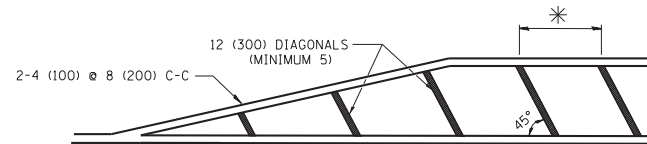
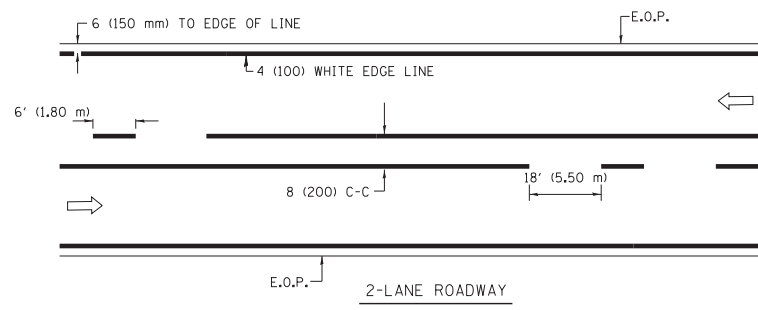
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		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

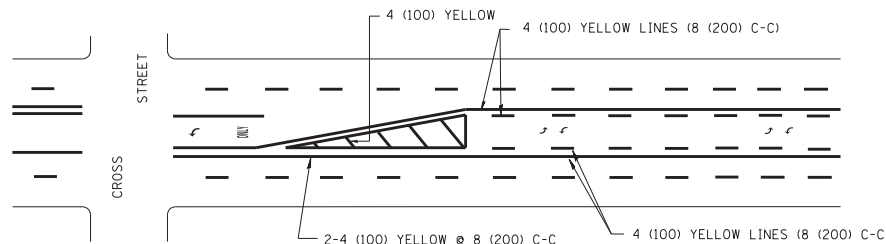
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	818
TC-22		CONTRACT NO. 60X07		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



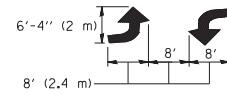
* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

* DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

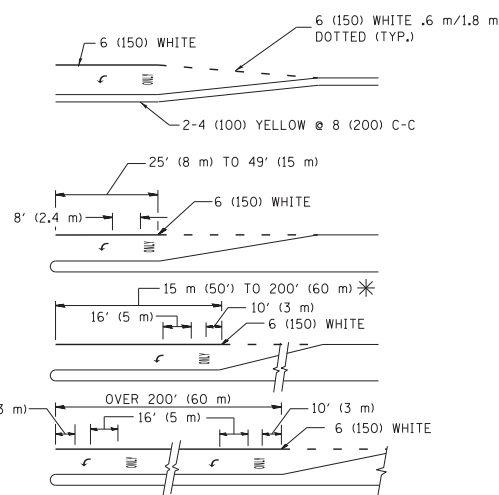


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

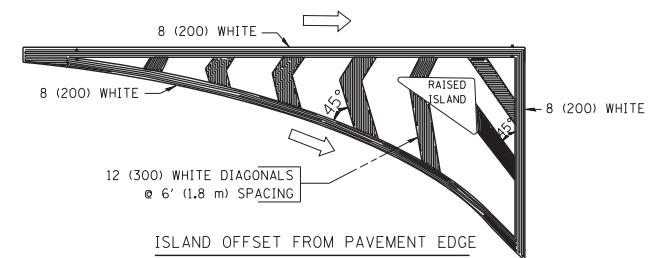


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.8 SQ. FT. (1.47 m²) ONLY AREA = 22.9 SQ. FT. (2.13 m²)

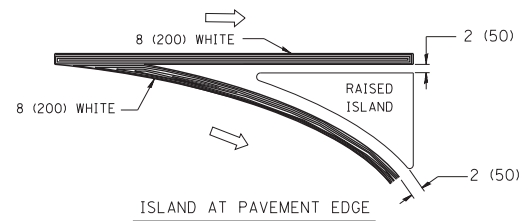
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE

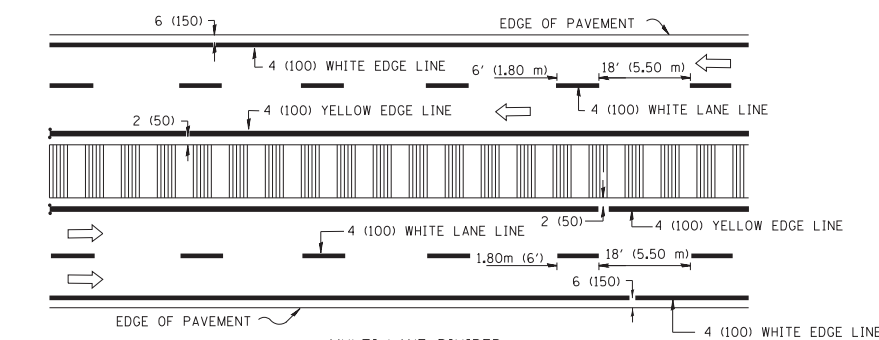
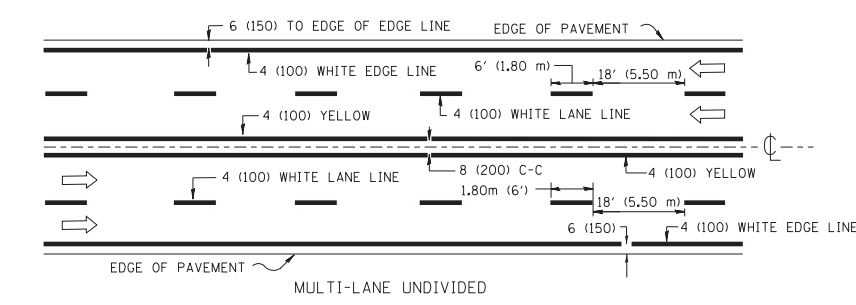


TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 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) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) 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°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) 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: 20' (6.1 m) (LESS THAN 30 MPH (50 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. (0.33m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)

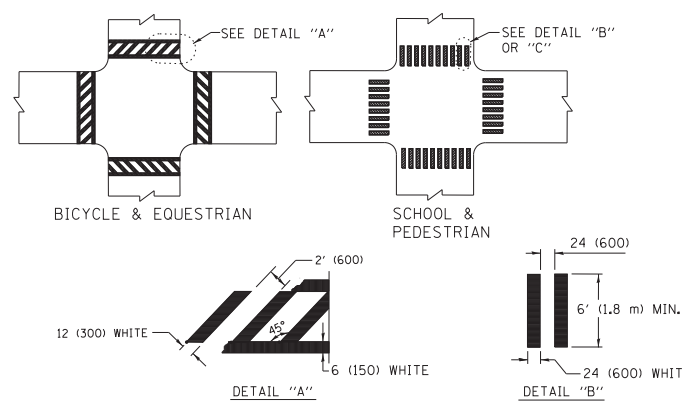
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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



NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



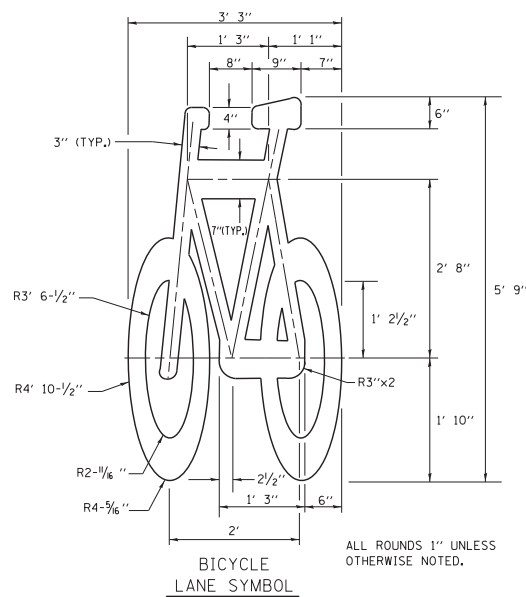
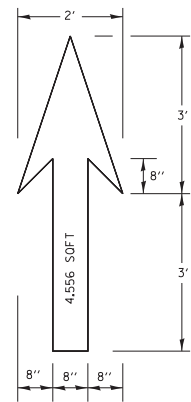
TYPICAL CROSSWALK MARKING

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 12-07-00
ca:\pwwork\p1dot\drivakosgn\d0108315\te24.dgn		DRAWN -	REVISED - K. ENG 02-28-12
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/1/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.

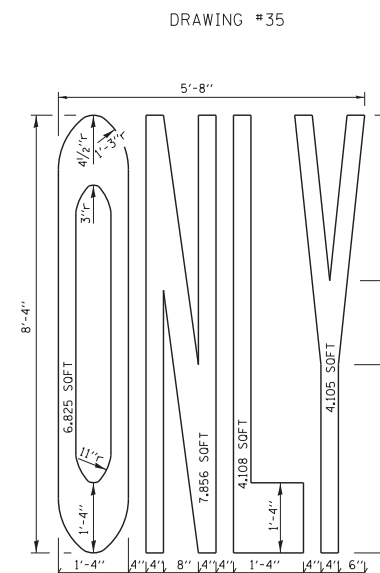
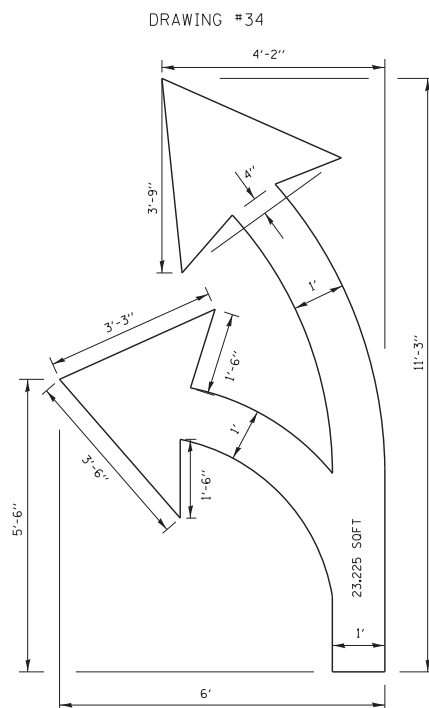
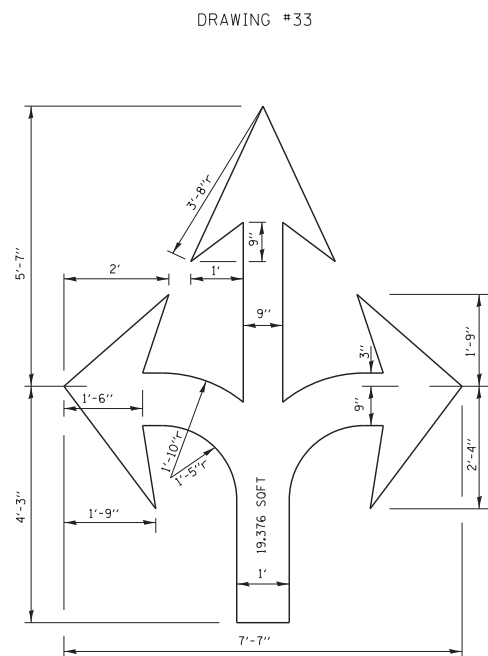
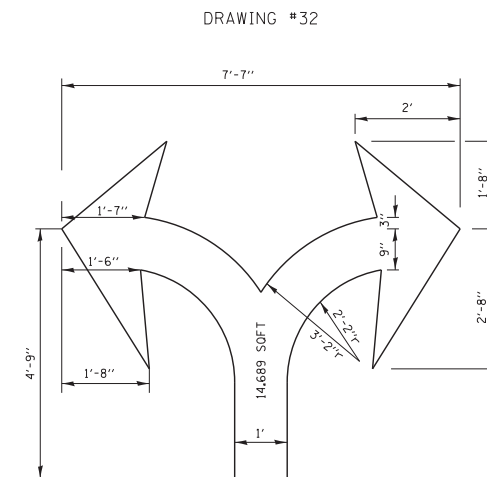
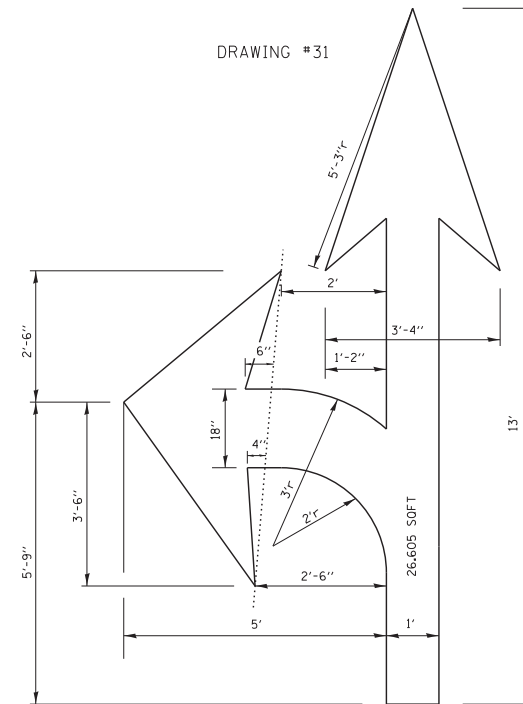
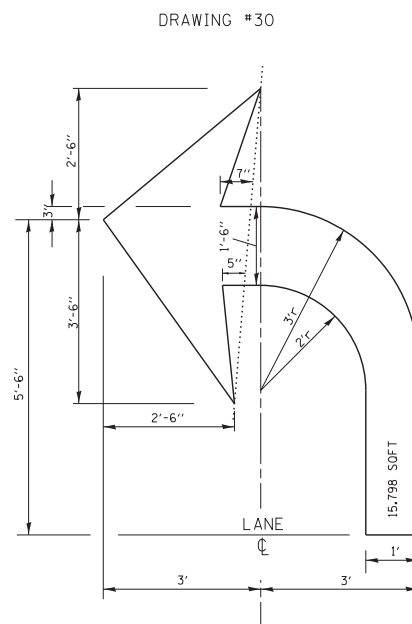
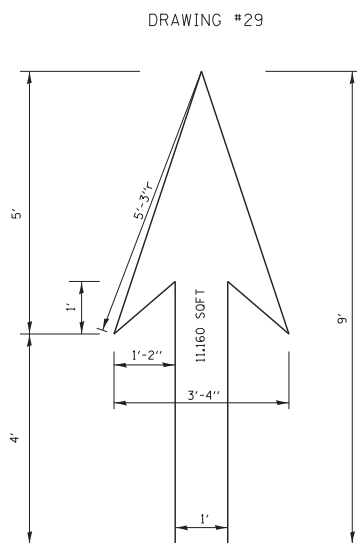
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-24		888	819
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	CONTRACT NO. 60X07	



NOTE:

- 1.) FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- 2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28



NOTE:
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

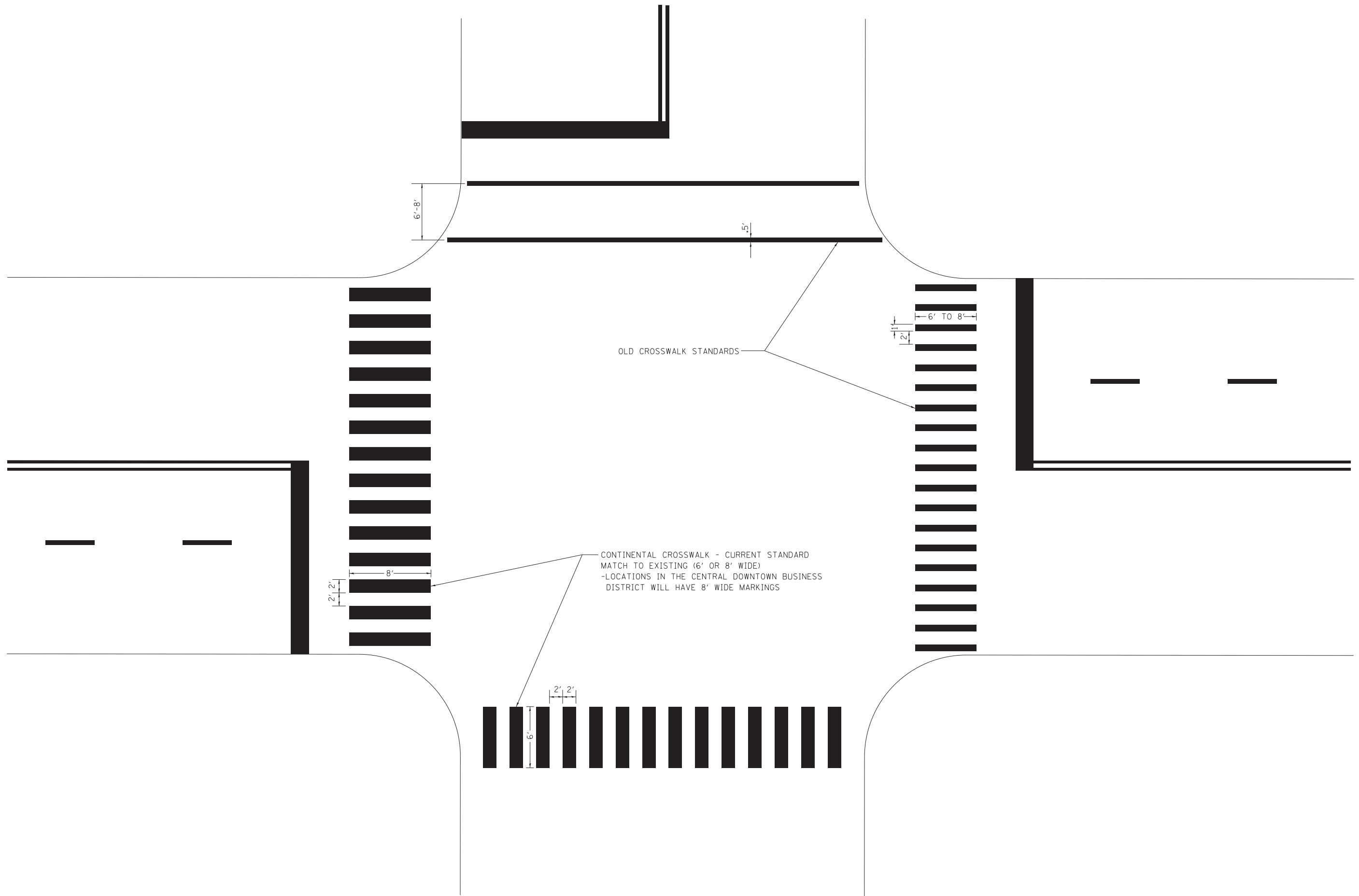
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	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/29/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-24		888	820
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 60X07	



OLD CROSSWALK STANDARDS

CONTINENTAL CROSSWALK - CURRENT STANDARD
 MATCH TO EXISTING (6' OR 8' WIDE)
 -LOCATIONS IN THE CENTRAL DOWNTOWN BUSINESS
 DISTRICT WILL HAVE 8' WIDE MARKINGS

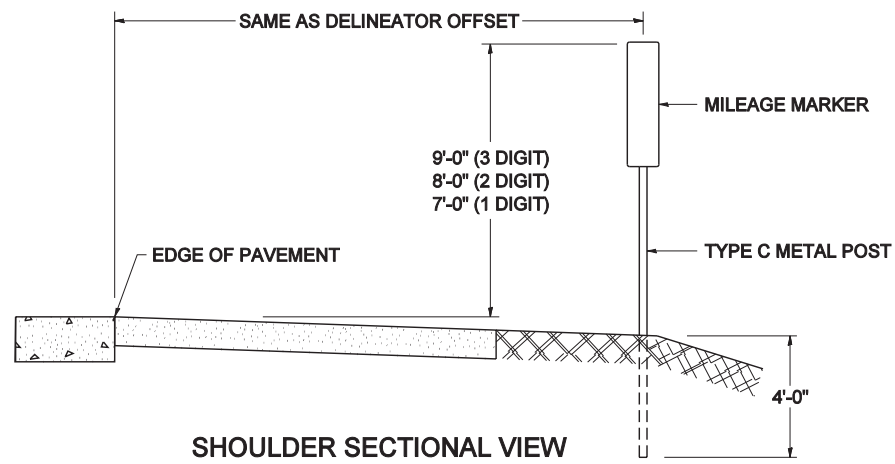
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ct:\pwork\pwork\drivakosgn\d0108315\te24.dgn		DRAWN -	REVISED - K. ENG 02-28-12
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

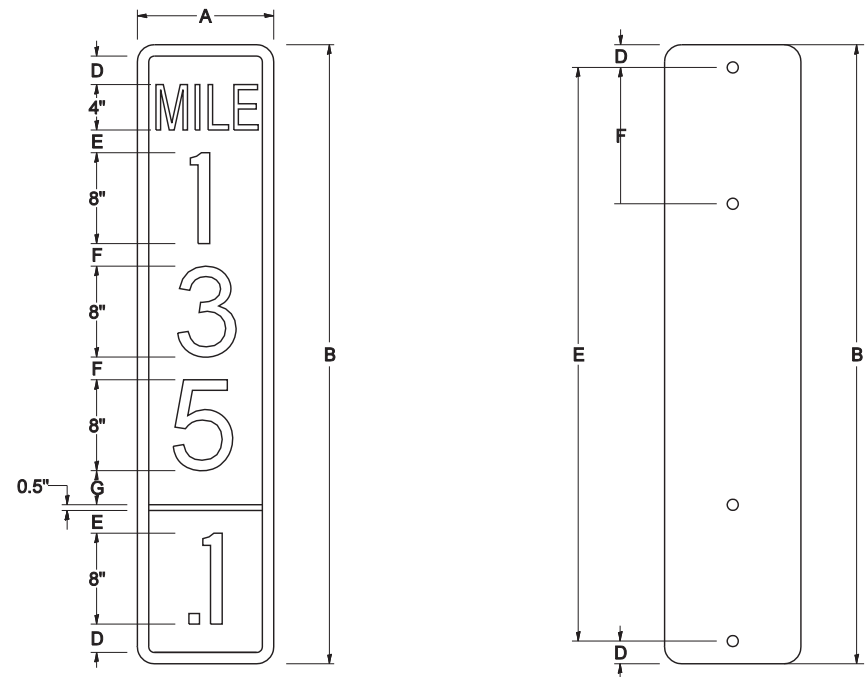
CITY OF CHICAGO			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	821
TC-24		CONTRACT NO. 60X07		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

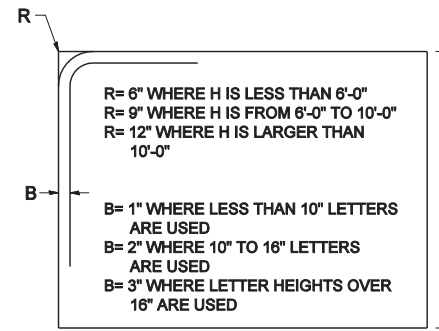


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

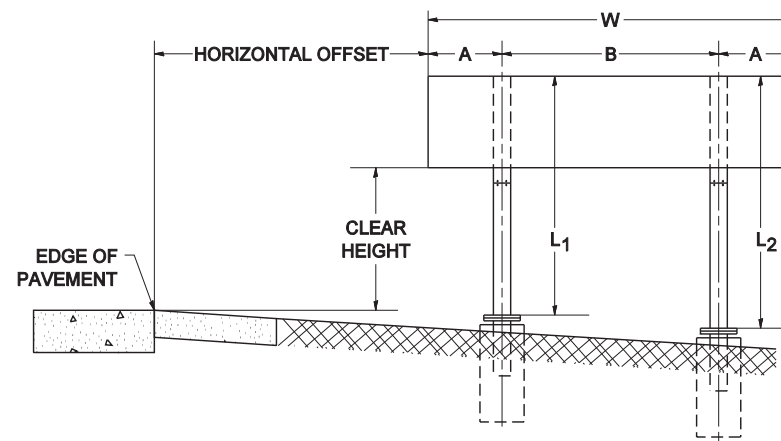
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES					BLANK STD.	
	LINES						
	1	2	3	4	5	BORDER	
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

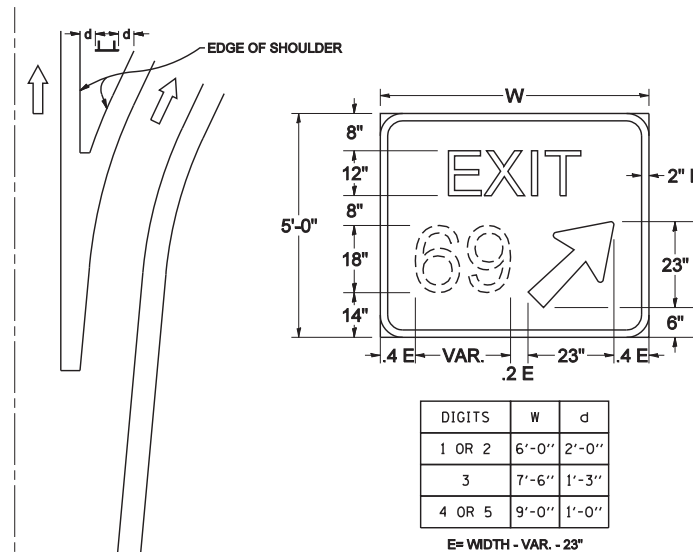


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

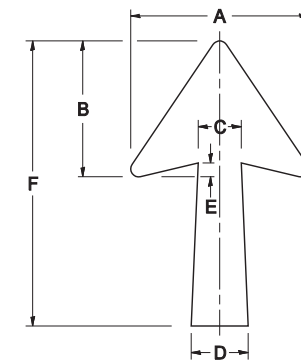
"L1 IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT."

"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

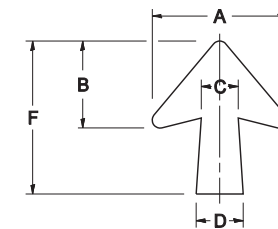


STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



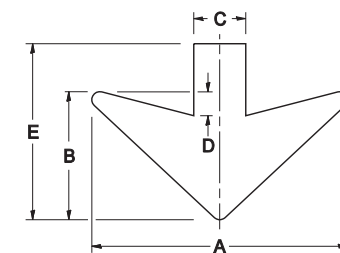
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 1/8	15 1/8	11 1/8	3 3/4	5	1 1/2	2 1/4	1/8
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	2 9/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	35 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 1/8	3 3/8		18 1/4	

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



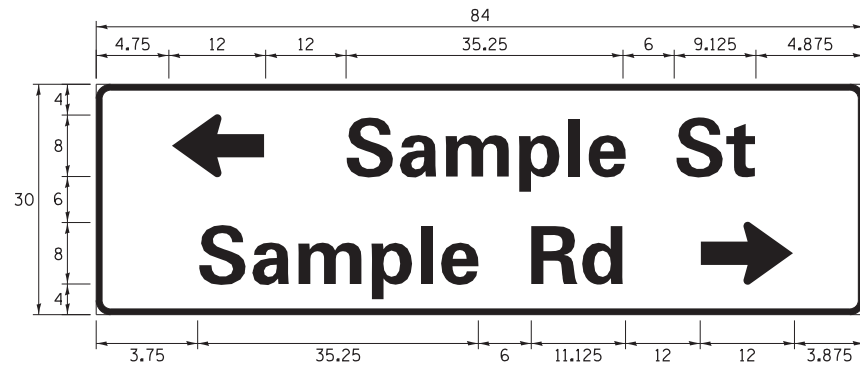
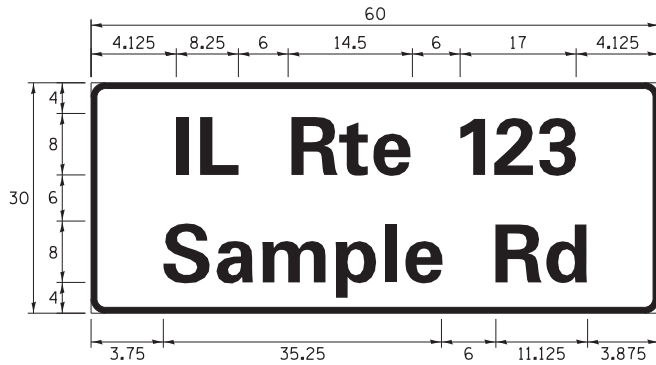
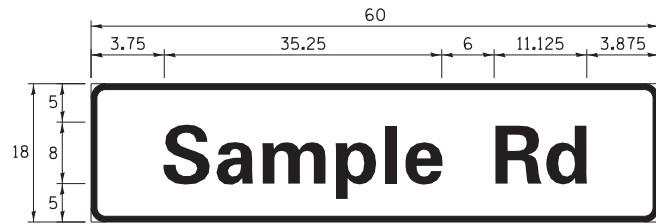
ARROW SYMBOL	A	B	C	D	E	F	R
17 1/4 x 14 1/4	14 1/4	9 3/8	3 3/8	4 1/2	1 5/8	17 1/4	3/4
20 1/4 x 17 1/4	17 1/4	11 3/4	4 3/8	5 5/8	1 1/2	20 1/4	
25 x 21 1/8	21 1/8	14 1/4	5	6 3/4	1 3/4	25	1
9 5/8 x 8 1/8	8 1/8	5 5/8	2 3/8	2 3/8		9 5/8	1/2

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

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

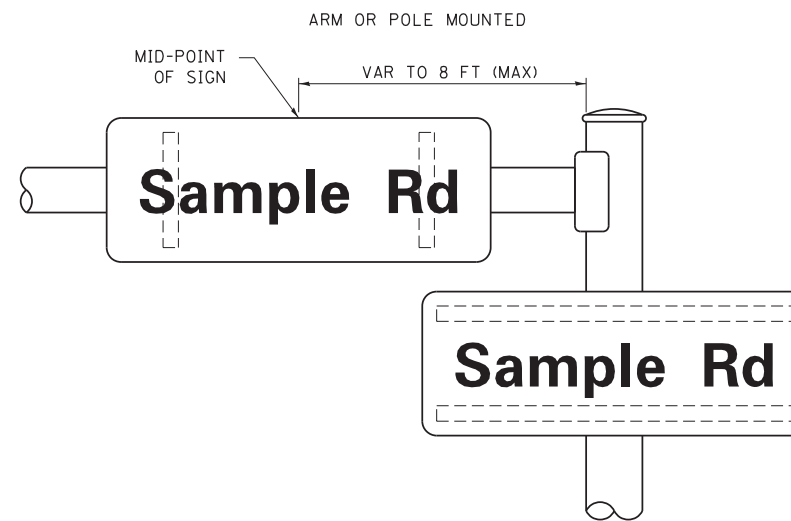
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

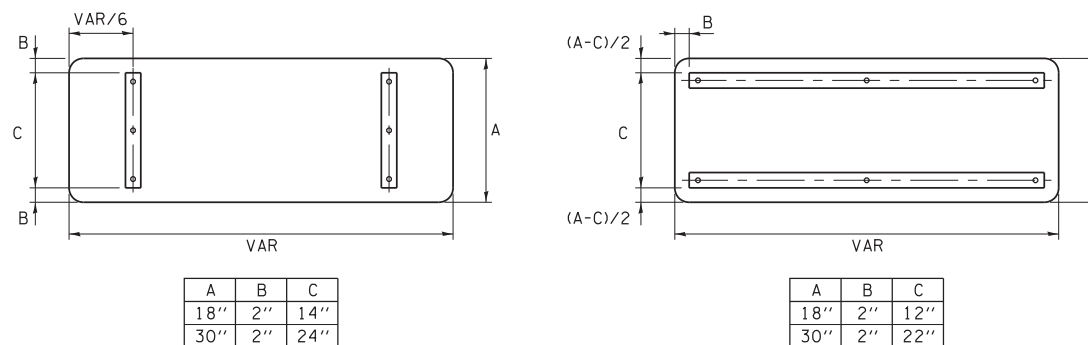
- SIGN CHANNEL PART *HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
PART *HPN034 (UNIVERSAL)
BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



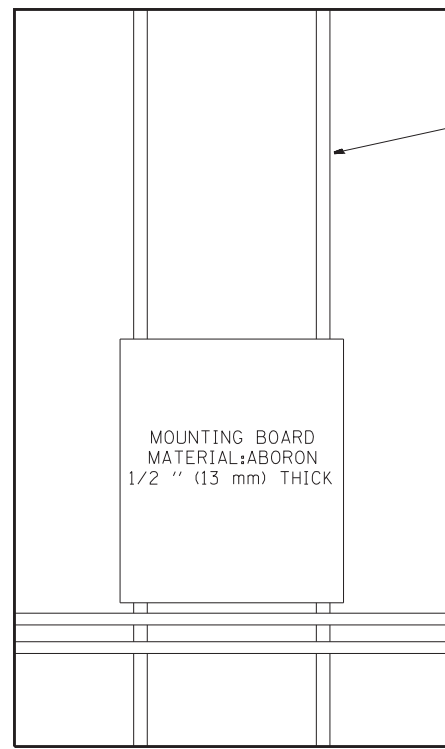
SUPPORTING CHANNELS



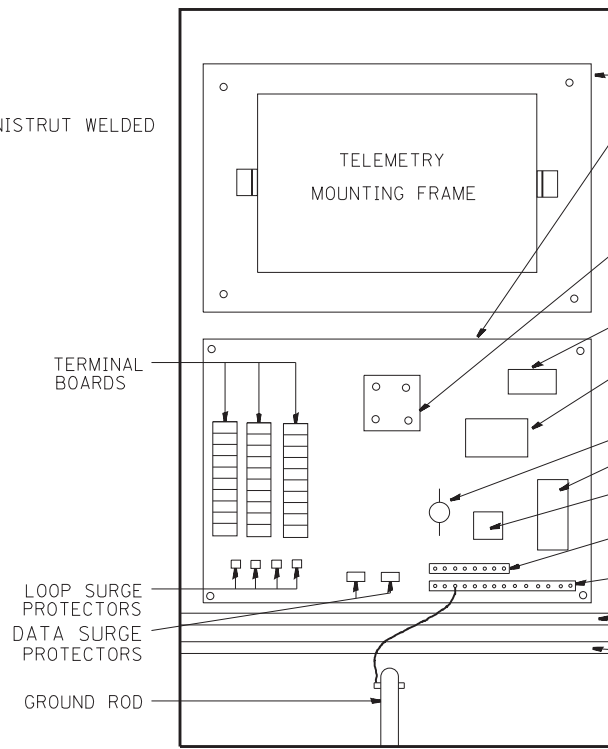
STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

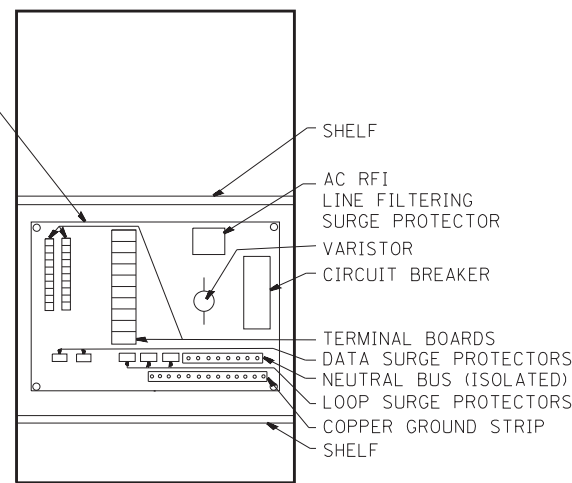
CHARACTER	FHWA SERIES "C"			CHARACTER	FHWA SERIES "D"		
	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)		LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240



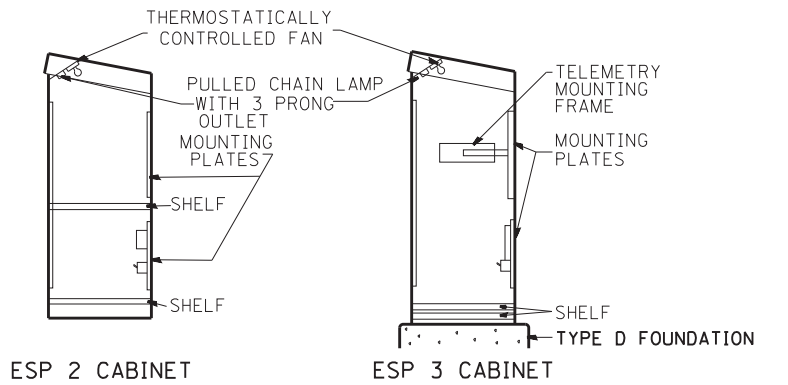
SIDE VIEW ESP 3 & 4 CABINET



ESP 3 CABINET

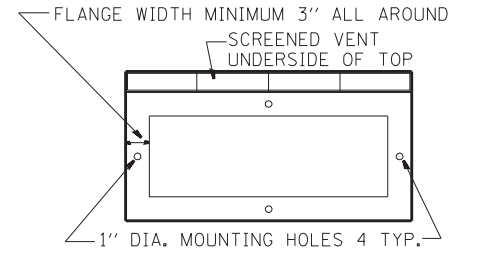


ESP 2 CABINET



PROFILE VIEWS

NOTE: MOUNTING PLATES TO BE MOUNTED TO BACK PANEL OF CABINET



BOTTOM VIEW MOUNTING PATTERN

TYPICAL CABINET INTERIORS
STANDARD TRAFFIC SYSTEMS CENTER CABINETS

MINIMUM DIMENSIONS INSIDE

TYPE	HEIGHT (IN-mm)	WIDTH (IN-mm)	DEPTH (IN-mm)	THICKNESS (IN-mm)	MATERIAL
ESP1	22.5" (571.5 mm)	14.25" (361.95mm)	9.75" (247.65mm)	3/16" (4.76mm)	FABRICATED ALUMINUM
ESP2	36" (914.4mm)	20" (508.0mm)	15" (381.0mm)	73/16" (4.76mm)	FABRICATED ALUMINUM
ESP3	49.5" (1.26 m)	30" (762.0mm)	17" (431.8mm)	3/16" (4.76mm)	FABRICATED ALUMINUM
ESP4	55" (1.4 m)	44" (1.12 m)	26" (660.4mm)	3/16" (4.76mm)	FABRICATED ALUMINUM

NOTES:

- CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION T637 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS". THE FINAL COAT SHALL BE (X) IN COLOR. THE INTERIOR SHALL BE PAINTED WHITE. SIGNAL POSTS AND HEADS TO BE FEDERAL YELLOW 89-19(MAUTZ).
- CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION T400 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
- ALL CABINETS WHICH ARE SERVICED BY 117 VOLTS A.C. POWER SHALL BE EQUIPPED WITH A 10 AMP CIRCUIT BREAKER, A.C. R.F.I. LINE FILTERING SURGE PROTECTOR, VARISTOR, DATA SURGE AND LOOP SURGE PROTECTORS AS INCIDENTAL TO THE COST OF THE CABINET. CMS CABINETS TYPE IV SHALL HAVE A 60 AMP. CIRCUIT BREAKER MINIMUM.
- ESP 2/3/4 CABINETS SHALL BE FITTED WITH A THERMOSTATICALLY CONTROLLED FAN. IT SHALL BE MOUNTED AT THE TOP OF THE CABINET. THE FAN SHALL BE CAPABLE OF OPERATING AT 130 CPM AT 160' (48.8 m) OF STATIC WATER PRESSURE. A PORCLAIN BASED PULL CHAIN FIXTURE WITH 3 PRONG OUTLET SHALL ALSO BE PROVIDED.
- RAMP METERING ESP 3 TYPE CABINETS SHALL ALSO BE EQUIPPED WITH A LOAD RELAY AND 2 CIRCUIT FLASHER. LAMPS, FAN, LOAD RELAY, AND 2 CIRCUIT FLASHER SHALL BE INCIDENTAL TO THE COST OF THE CABINET
- INCIDENTAL TO THE COST OF EACH CABINET THE CONTRACTOR SHALL CONSTRUCT A 5 INCH (130mm) PCC SIDEWALK OF A RECTANGULAR AREA 3 FEET (915 mm) BY 4 FEET (1.25 m) IMMEDIATELY ADJACENT TO THE CABINET FOUNDATION ON THE SAME SIDE OF THE FOUNDATION AS THE CABINET DOOR TO PROVIDE FOOTING DURING INSTALLATION AND MAINTENANCE.
- ANCHOR BOLTS FOR PEDESTAL AND BASE MOUNTED CABINETS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- ALL CABINETS SHALL HAVE TERMINAL BLOCKS AND SHELVES AS SHOWN. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABINET.
- THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE CABINET. THE DOOR SHALL BE FURNISHED WITH A GASKET THAT SHALL FORM A WEATHER TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE HINGES SHALL BE CONTINUOUS AND BOLTED TO THE CABINET AND DOOR UTILIZING 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGES WILL BE MADE OF STAINLESS STEEL WITH A 0.25 INCH (6.35 mm) DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER PROOF.
- THE LATCHING MECHANISM SHALL BE A 3 POINT DRAW ROLLER TYPE. THE CENTER CATCH AND PUSHRODS SHALL BE EITHER CADMIUM OR ZINC PLATED, TYPE II CLASS I. PUSHRODS WILL BE TURNED EDGEWISE AT THE OUTWARD SUPPORTS AND SHALL BE 0.25 INCH (6.35 mm) BY 0.75 INCH (19.05 mm). MINIMUM. ROLLERS SHALL HAVE A MINIMUM DIAMETER OF 0.875 INCH (22.22 mm) AND WILL BE MADE OF NYLON. THE CENTER CATCH SHALL BE FABRICATED FROM 0.14 INCH (3.55 mm) STEEL, MINIMUM. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION. AN OPERATING HANDLE SHALL BE FURNISHED WITH EACH LOCK. THE HANDLE WILL BE STAINLESS STEEL WITH A 0.75 INCH (19.05 mm) DIAMETER SHANK.
- THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
- CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS.
- ALL FIELD CABINETS SHALL BE FITTED WITH BRASS LOCKS.
- ESP TYPE 2 & 3 CABINETS FITTED WITH TWO SHELVES AS SHOWN.
- POST TOP MOUNTED CABINETS, SHALL HAVE A 0.25 INCH (6.3 mm) BOTTOM OF CABINET WELDED.
- THE CONTROL CABINET SHALL BE SET PLUMB ON THE FOUNDATION AND FASTENED TO THE ANCHOR BOLTS WITH NUTS AND WASHERS. FLAT WASHERS SHALL BE INSTALLED BELOW AND ABOVE THE BASE PLATE OF THE CONTROL CABINET. LOCKWASHERS SHALL BE INSTALLED ON TOP OF THE TOP FLAT WASHER.

(X)

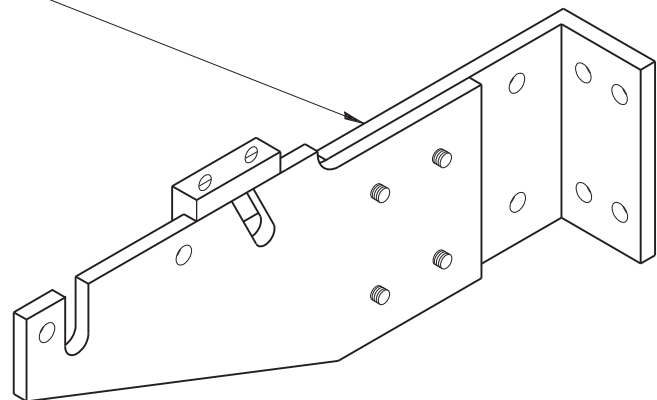
- | | |
|------------------|---------------------|
| EDENS | WALNUT * |
| KENNEDY | BLUE STREAK ** |
| EISENHOWER | CARIBBEAN BLUE * |
| I-290/IL53/I-355 | POST OFFICE BLUE ** |
| RYAN | YELLOW STONE II ** |
| I-55 | MEDIUM BRONZE * |
| I-57 | RED BARON ** |
| CAL-KING | BLUE STREAK ** |
| LAKE SHORE DR. | GREEN * |
| I-80 | STATUARY BRONZE ** |

ALL RAMP METERING CABINETS LIME GREEN ***. ALL POSTS, T.S. HEADS AND SERVICES WILL BE PAINTED FEDERAL YELLOW.
* MORTON POWDER PAINT COLOR OR EQUIVALENT.
** O'BRIEN POWDER PAINT COLOR OR EQUIVALENT.
*** BENJAMIN MOORE ENAMEL COLOR OR EQUIVALENT.

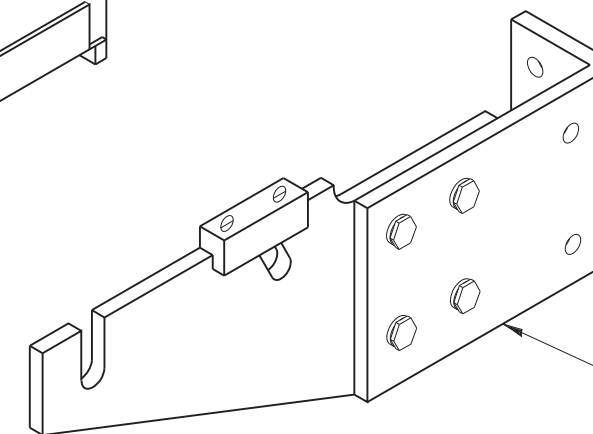
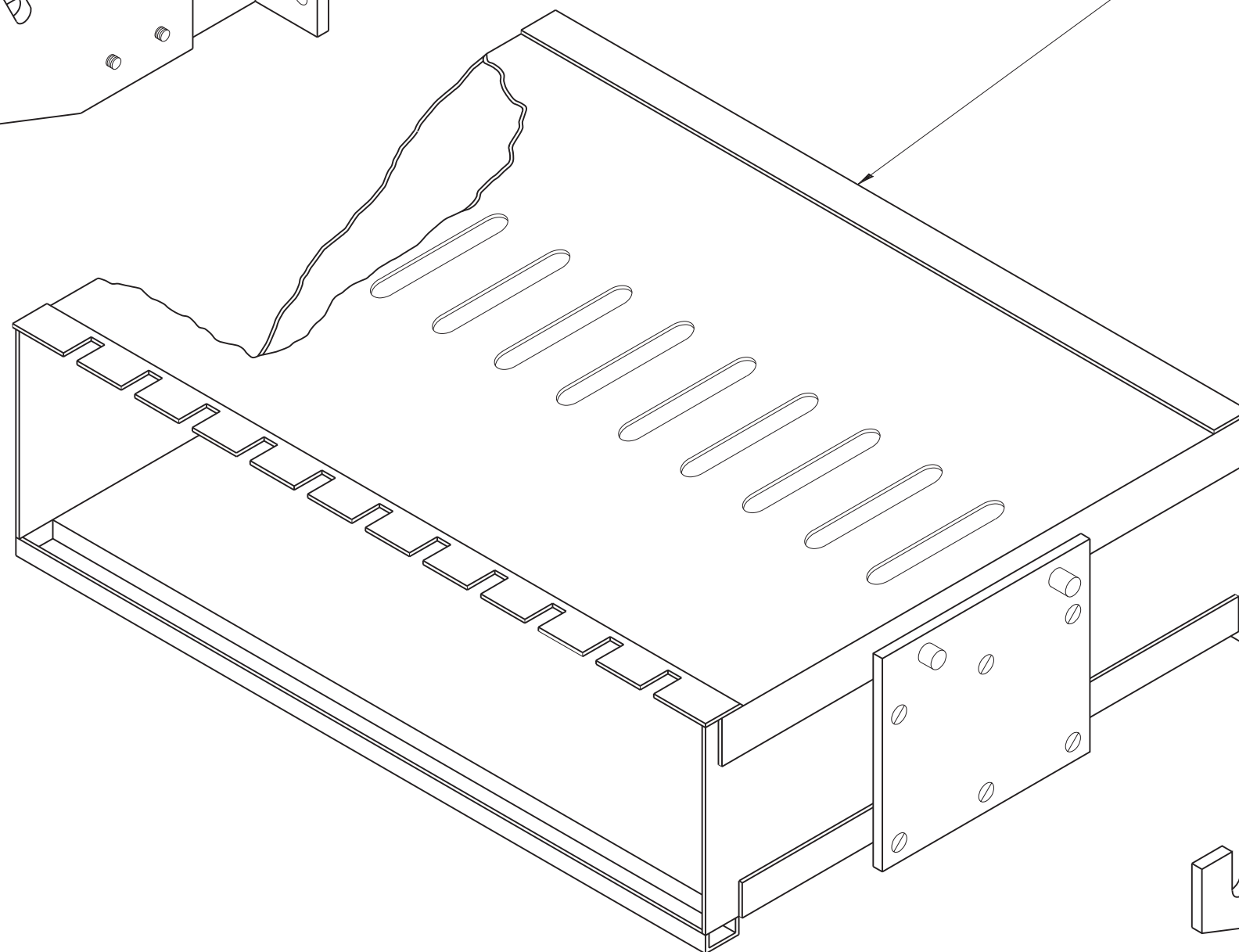
NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR CONFORMING TO COLOR REQUIREMENTS

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 12/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	CABINET DETAIL SHEET			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 100.0000' / 1"	CHECKED - R.L.	REVISED - 02/98											
PLOT DATE = 2/7/2013	DATE - 06/21/94	REVISED - 03/99											

CRADLE



II MODULE MOUNTING FRAME
(FOR II TYPE "A" PLUG-IN TYPE TONE MODULES)

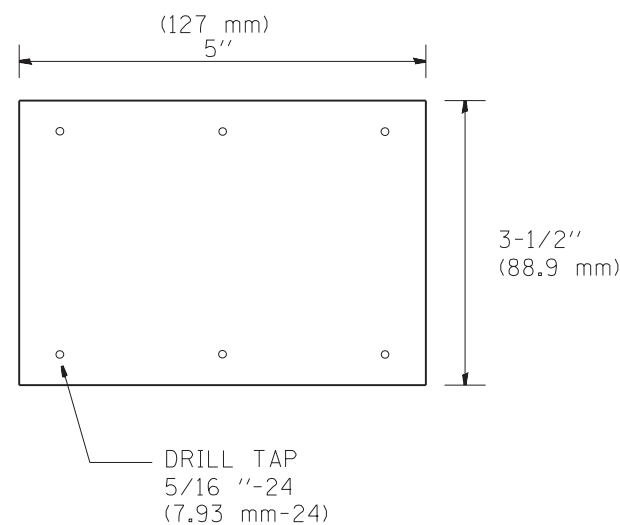
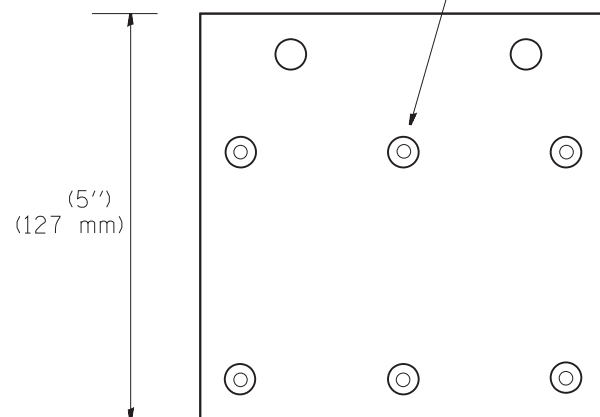
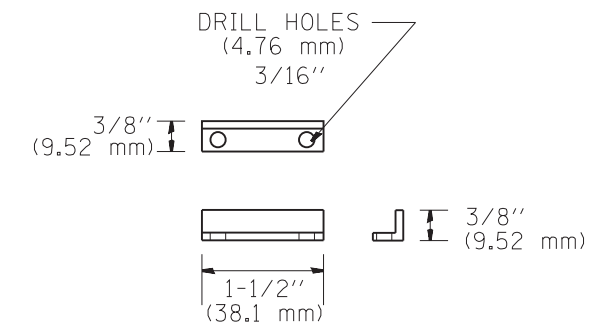
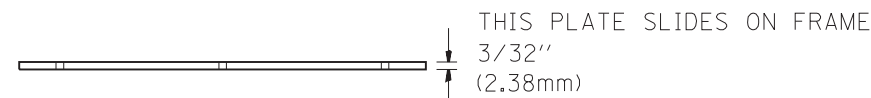
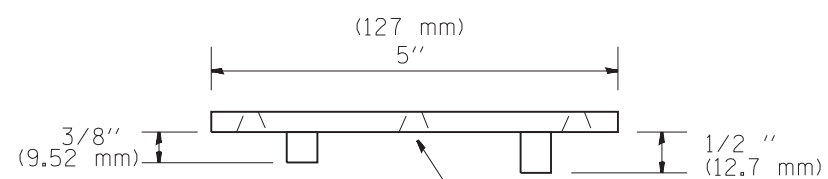
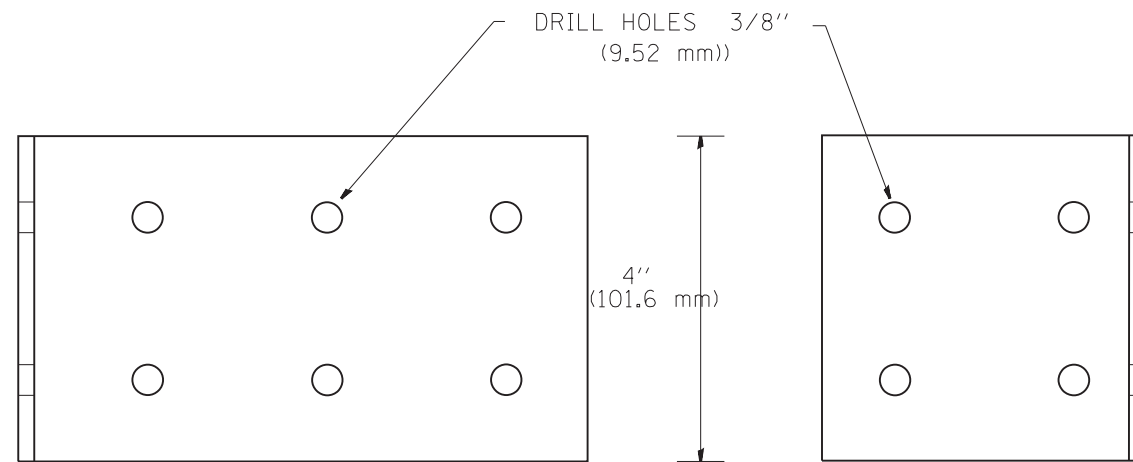
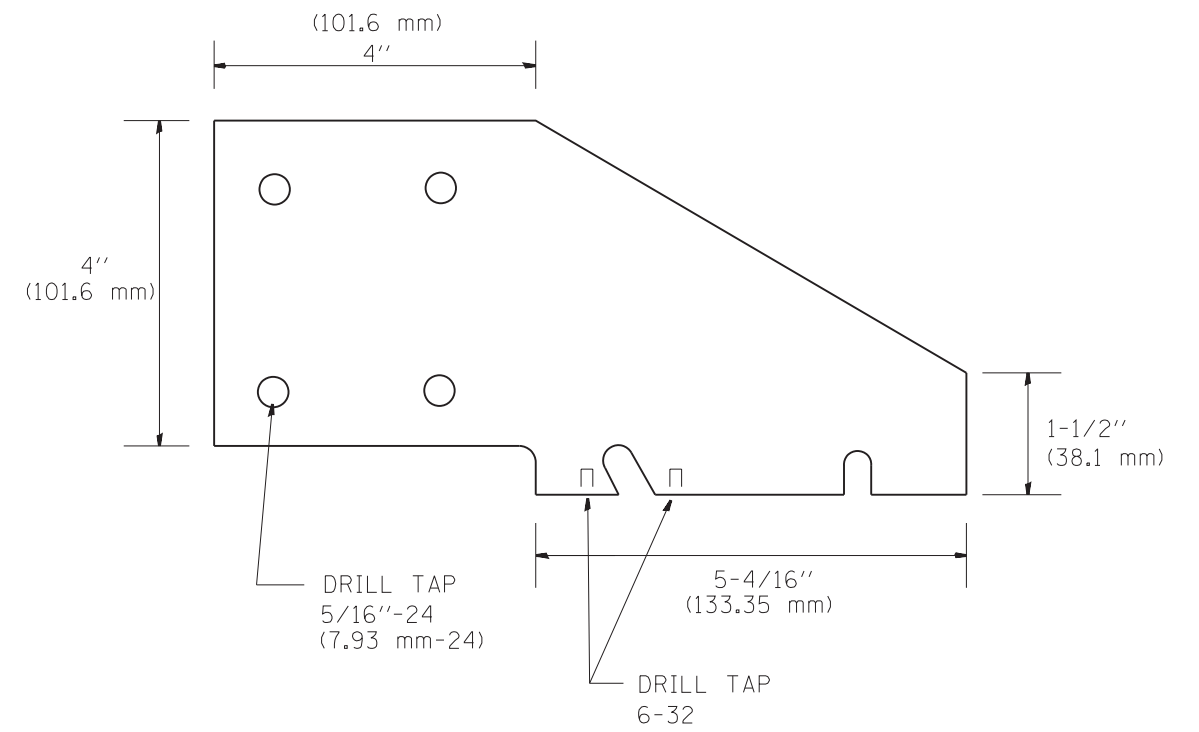
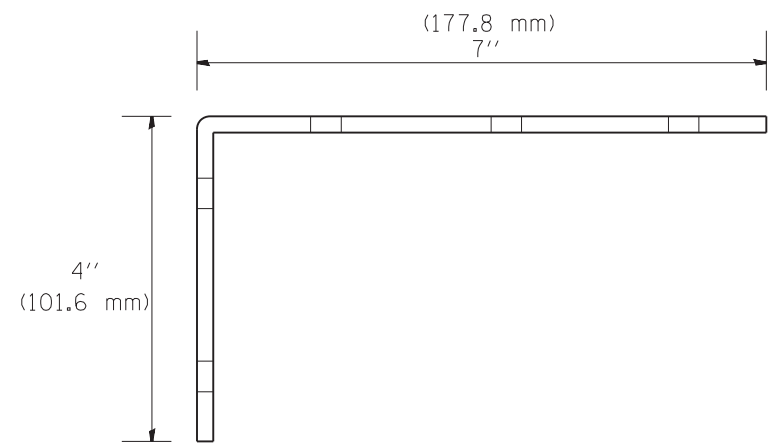


CRADLE

NOTE:

TYPE "A" TONE MODULES ARE PLUG
IN UNIT MEASURING 5-7/32" (132.55 mm) X 1.5" (38.1 mm) X 13-3/4" (349.25 mm)

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	FIELD MOUNTING FRAME WITH CRADLE ASSEMBLY			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED -											
PLOT DATE = 2/7/2013	DATE - 06/21/94	REVISED -											



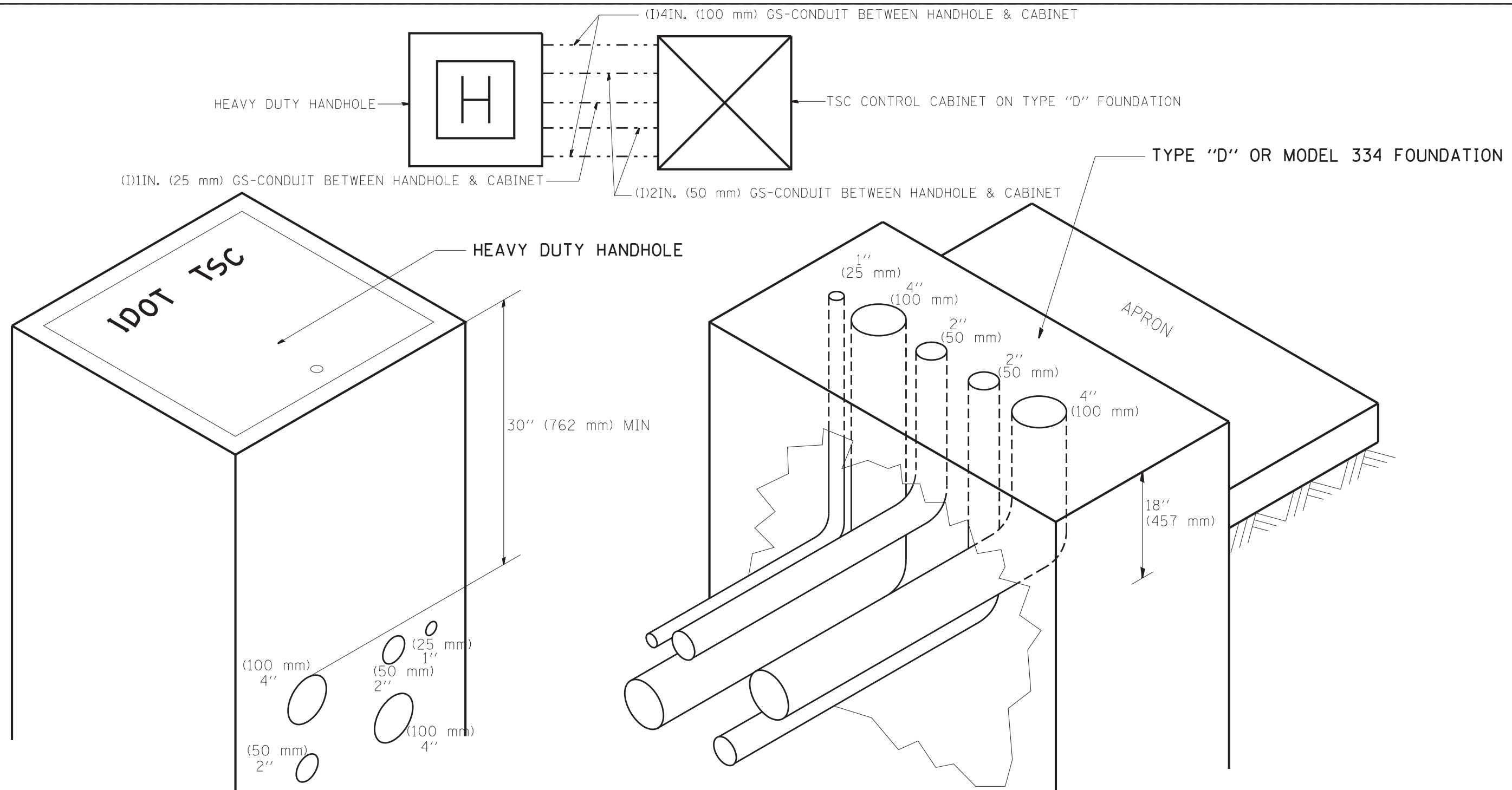
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	PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED -
	PLOT DATE = 2/7/2013	DATE - 06/21/94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIELD CRADLE ASSEMBLY

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

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	826
CONTRACT NO. 60X07				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

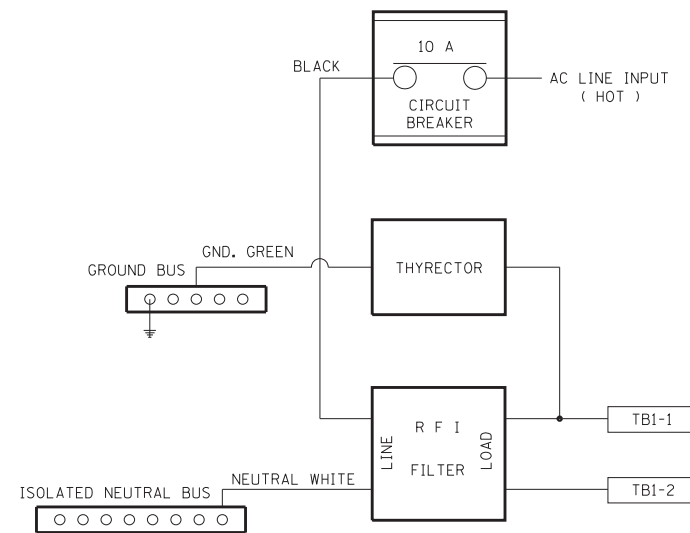
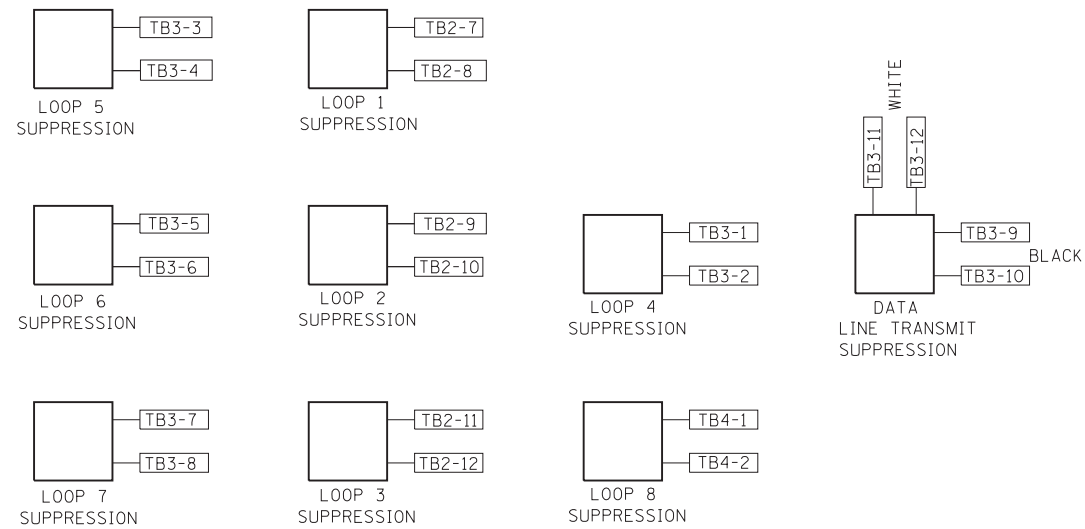
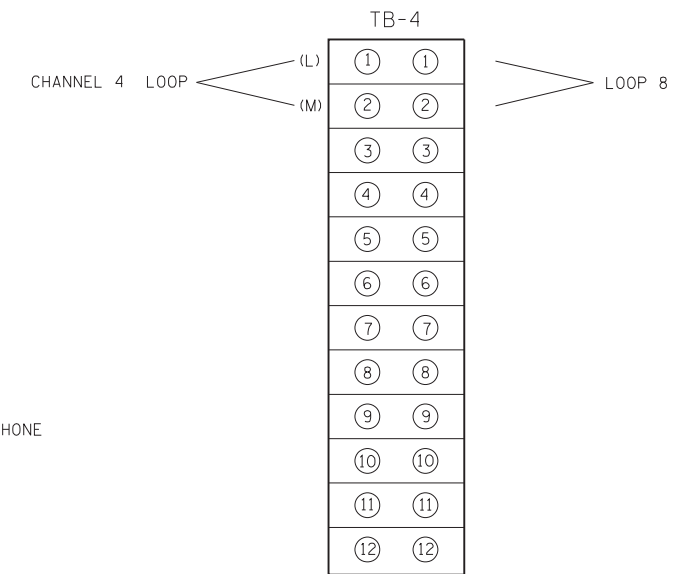
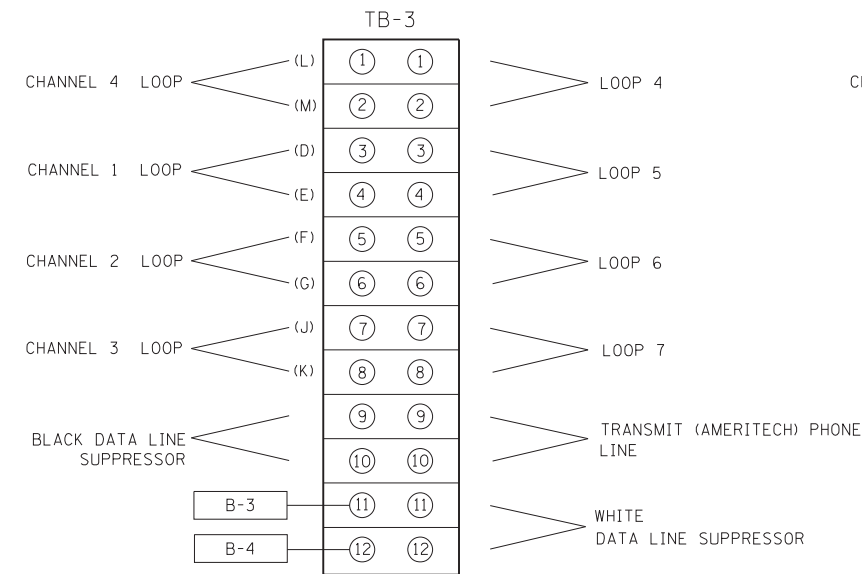
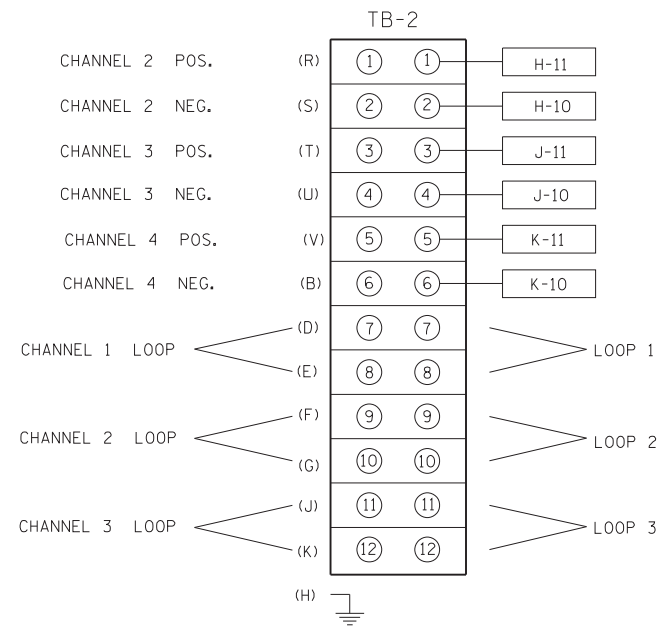
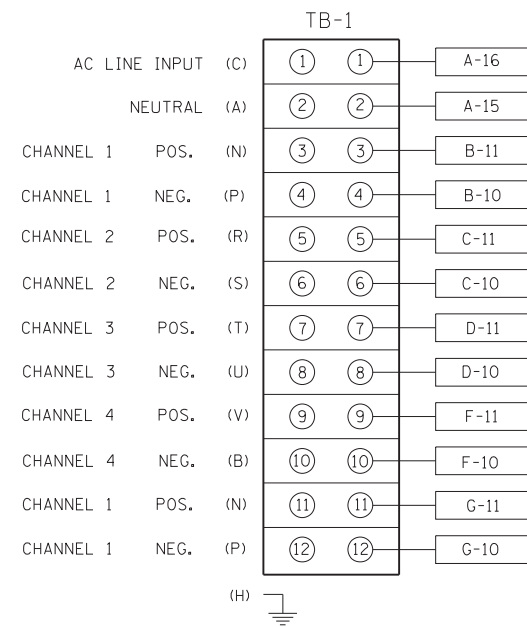
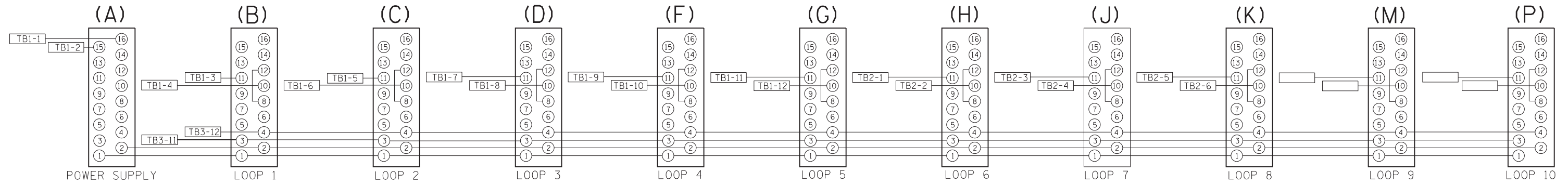


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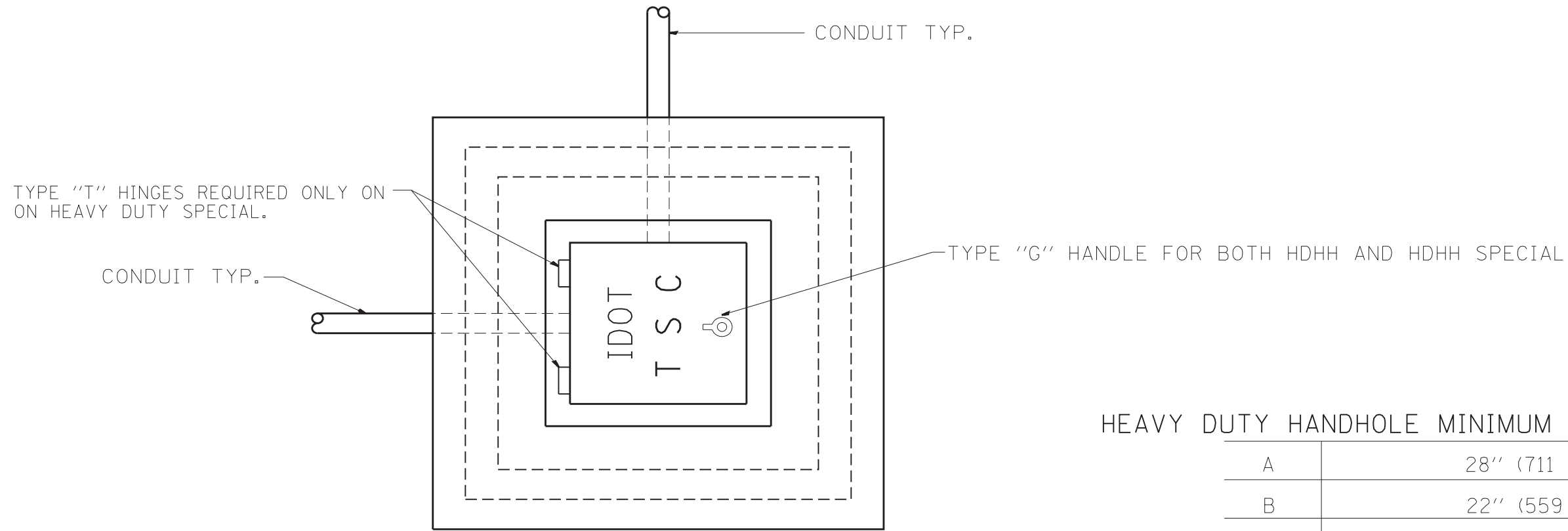
- 1) ALL DUCTS SHALL BE CONED IN HANDHOLES.
- 2) ALL DUCTS SHALL BE GS-CONDUIT & GS 90 DEG. ELBOWS USED WHERE NEEDED.
- 3) ALL DUCTS ENTER HANDHOLE AT MINIMUM DEPTH OF 30 INCH (762 mm)
- 4) ALL HANDHOLE COVERS SHALL READ "IDOT TSC".
- 5) ALL CABINET HANDHOLES SHALL BE HEAVY DUTY.
- 6) DUCTS SHALL BE 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 1IN. (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 = mezag	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.
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PLOT SCALE = 100.0000' / 1in.	CHECKED - R.L.	REVISED - 04/99	CONTRACT NO. 60X07									
PLOT DATE = 2/7/2013	DATE - 06/05/95	REVISED - 07/2010	ILLINOIS FED. AID PROJECT									
				SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.				

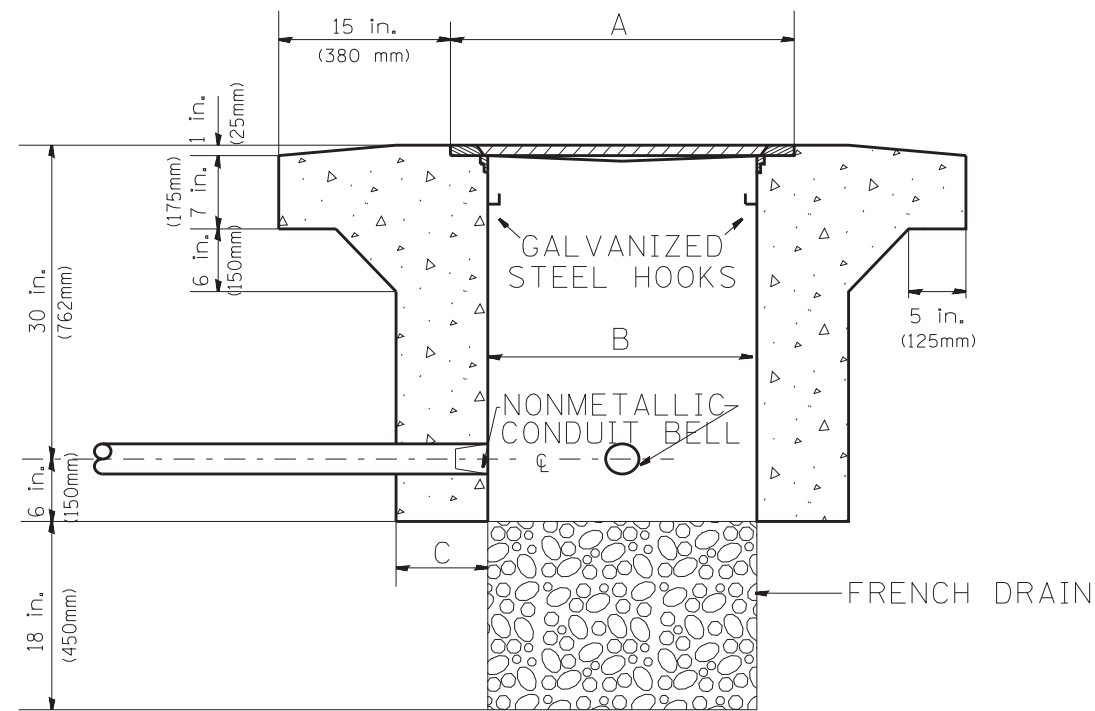
BACK VIEW OF TONE RACK



FILE NAME =	USER NAME = mezag	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.	
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		CHECKED - R.L.	REVISED -					CONTRACT NO. 60X07					
		DATE - 10-17-95	REVISED -										



PLAN



ELEVATION

PC CONCRETE - HEAVY DUTY HAND HOLE

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

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

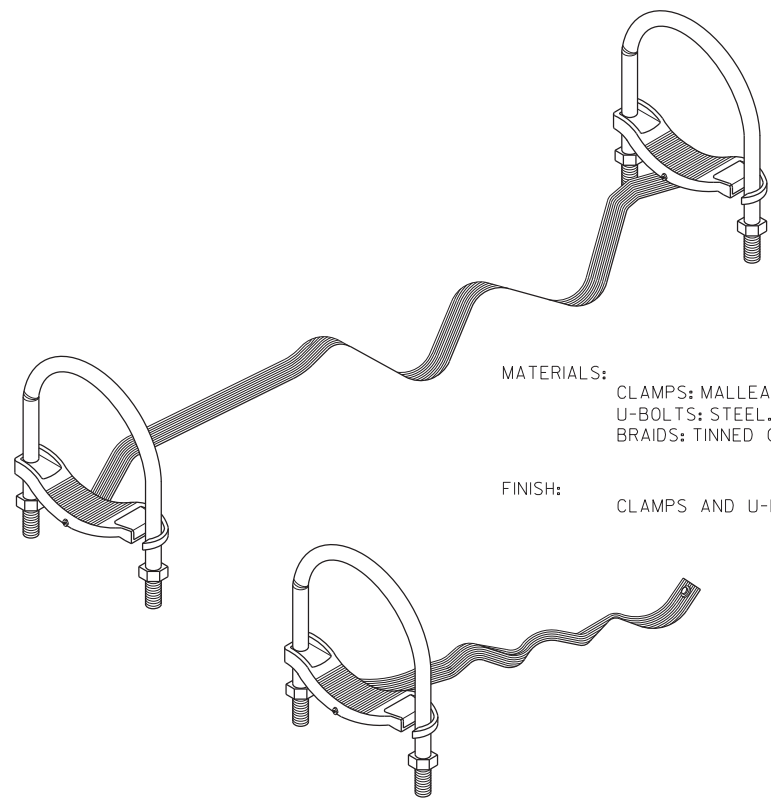
(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)

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))

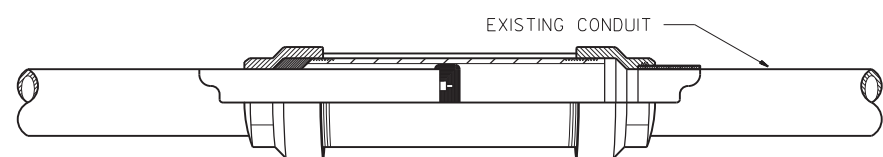
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PLOT SCALE = 100.0000' / 1"		CHECKED - R.L.	REVISED -		CONTRACT NO. 60X07								
PLOT DATE = 2/7/2013		DATE - 09/11/96	REVISED -		TRAFFIC SYSTEMS CENTER (TY-1TSC-400#15)								



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



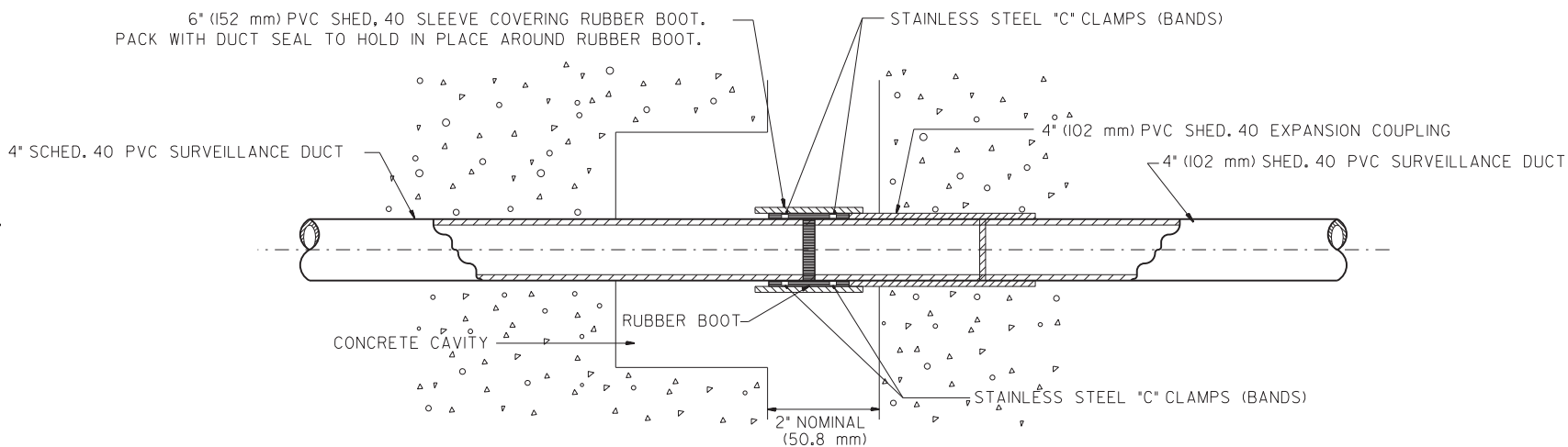
CROSS SECTION



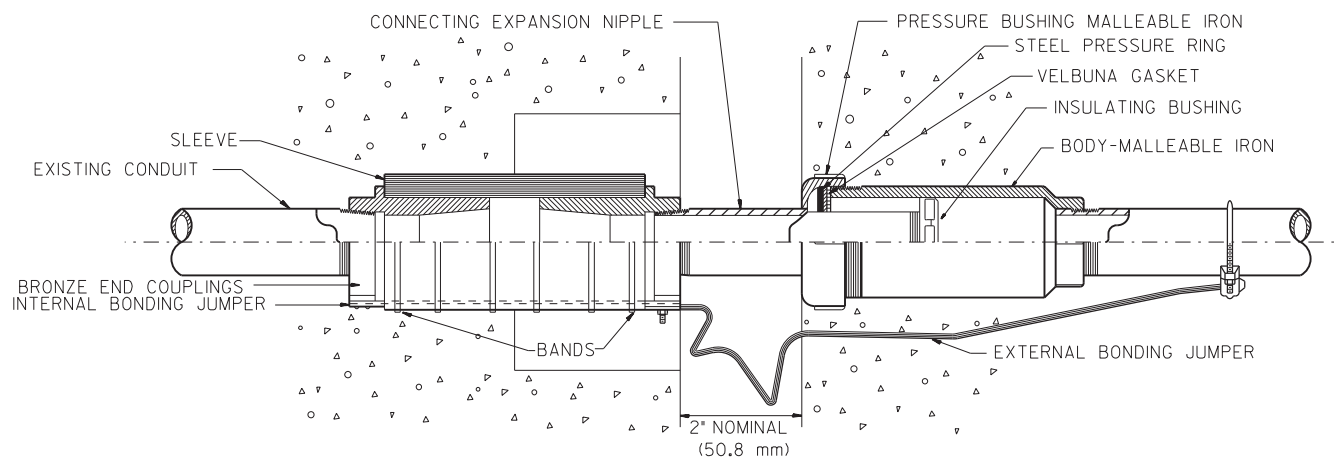
BONDING EXPANSION FITTINGS

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 -

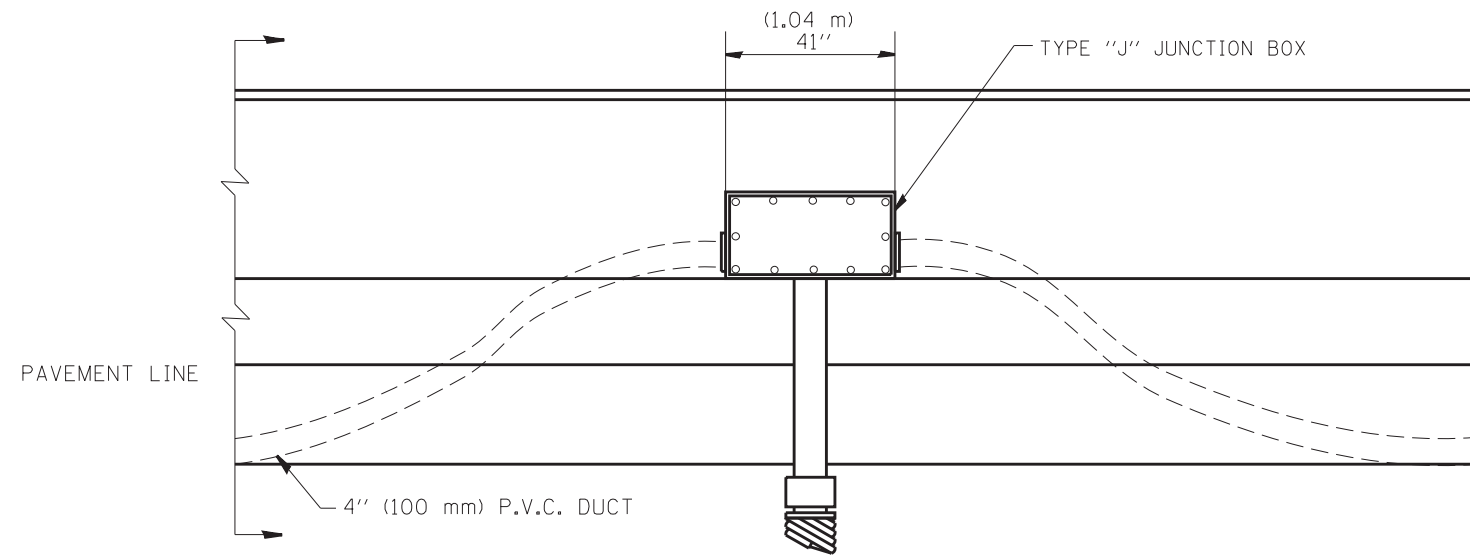
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

EXPANSION FITTING
 DETAIL SHEET

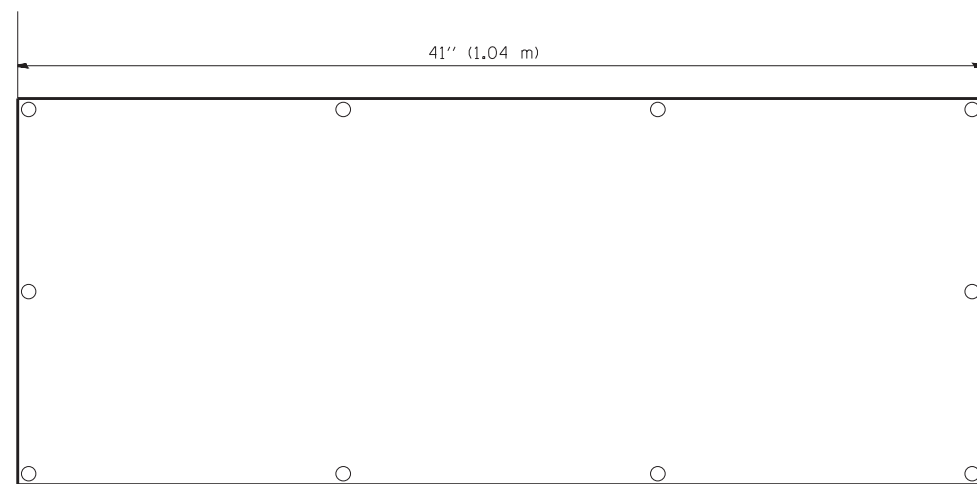
SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			888	830
CONTRACT NO. 60X07				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

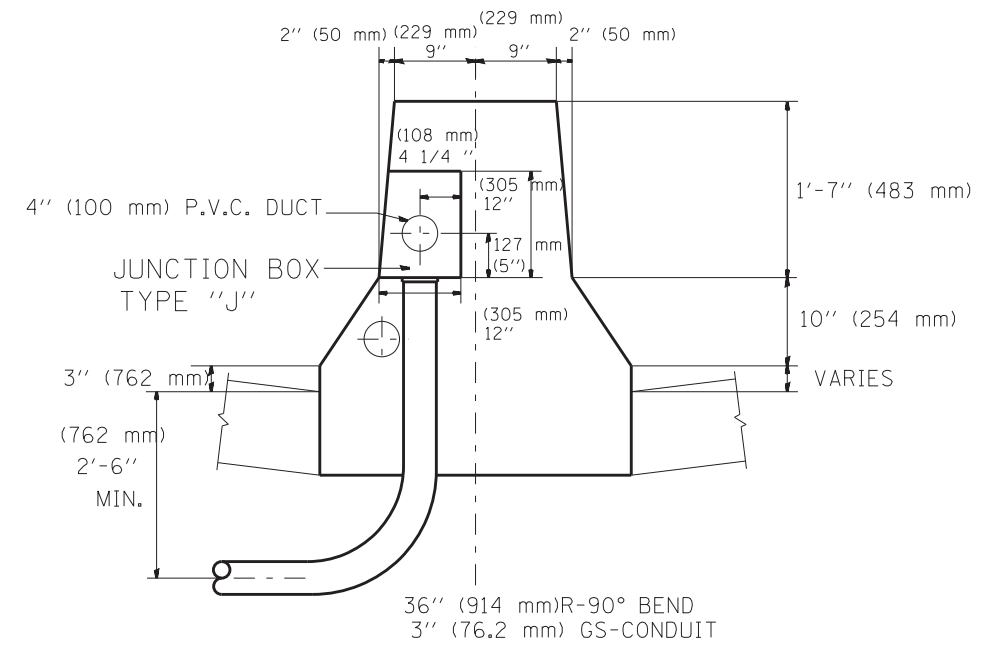
TRAFFIC SYSTEMS CENTER (TY-ITSC-400#18)



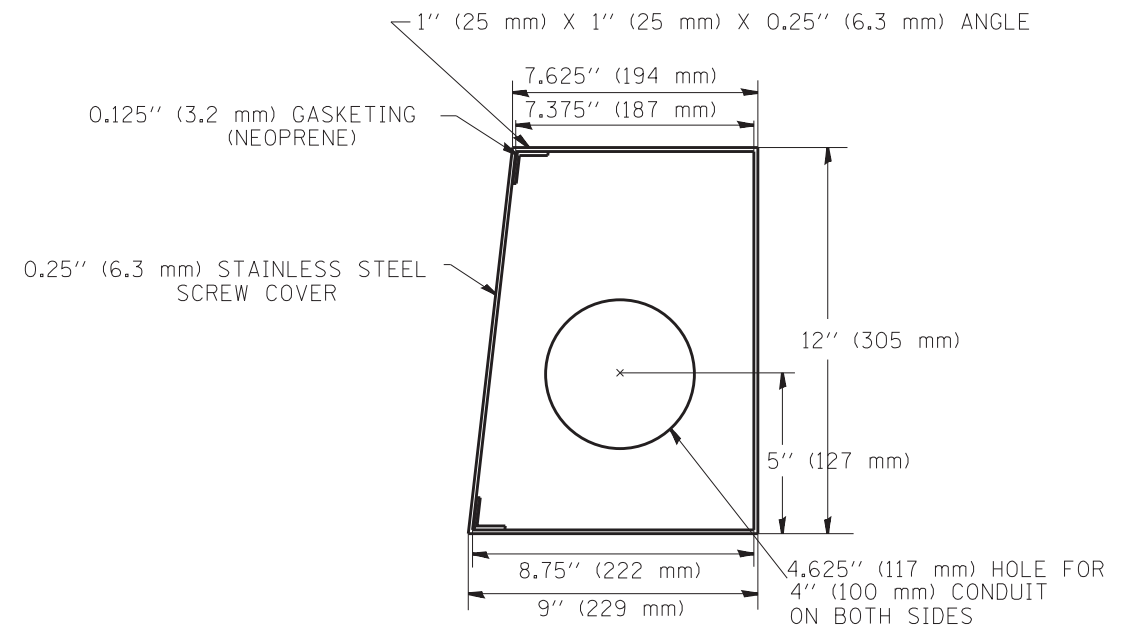
**ELEVATION
BARRIER WALL DUCT DETAIL**



FRONT VIEW



DOUBLE FACED BARRIER WALL



**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

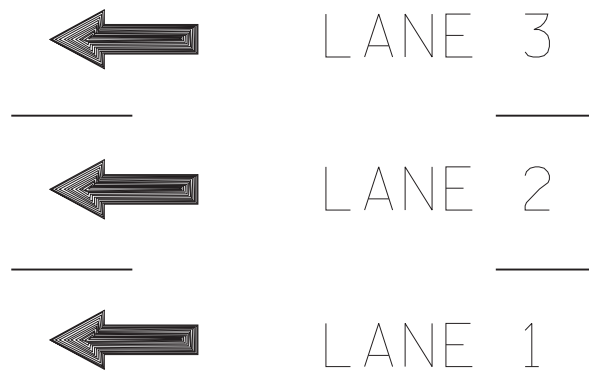
BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15' (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J"
AND FOR A SMOOTH TRANSITION OF 4" (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	JUNCTION BOX "TYPE J" IN DOUBLE FACED BARRIER WALL			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\idot\mezag\d0287541\TSCTYP.dgn	PLOT SCALE = 100.0000' / 1in.	DRAWN - G.M.	REVISED -								888	831
	PLOT DATE = 2/7/2013	CHECKED - J.G.	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60X07		ILLINOIS FED. AID PROJECT		
		DATE - 04-19-05	REVISED -		TRAFFIC SYSTEMS CENTER (TY-1TSC-400#30)							

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

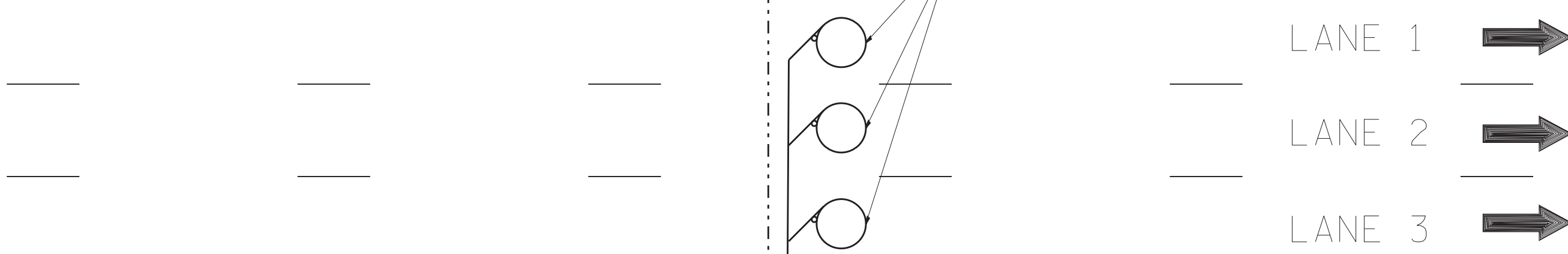
HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

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



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

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



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

(I)CORE HOLE

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

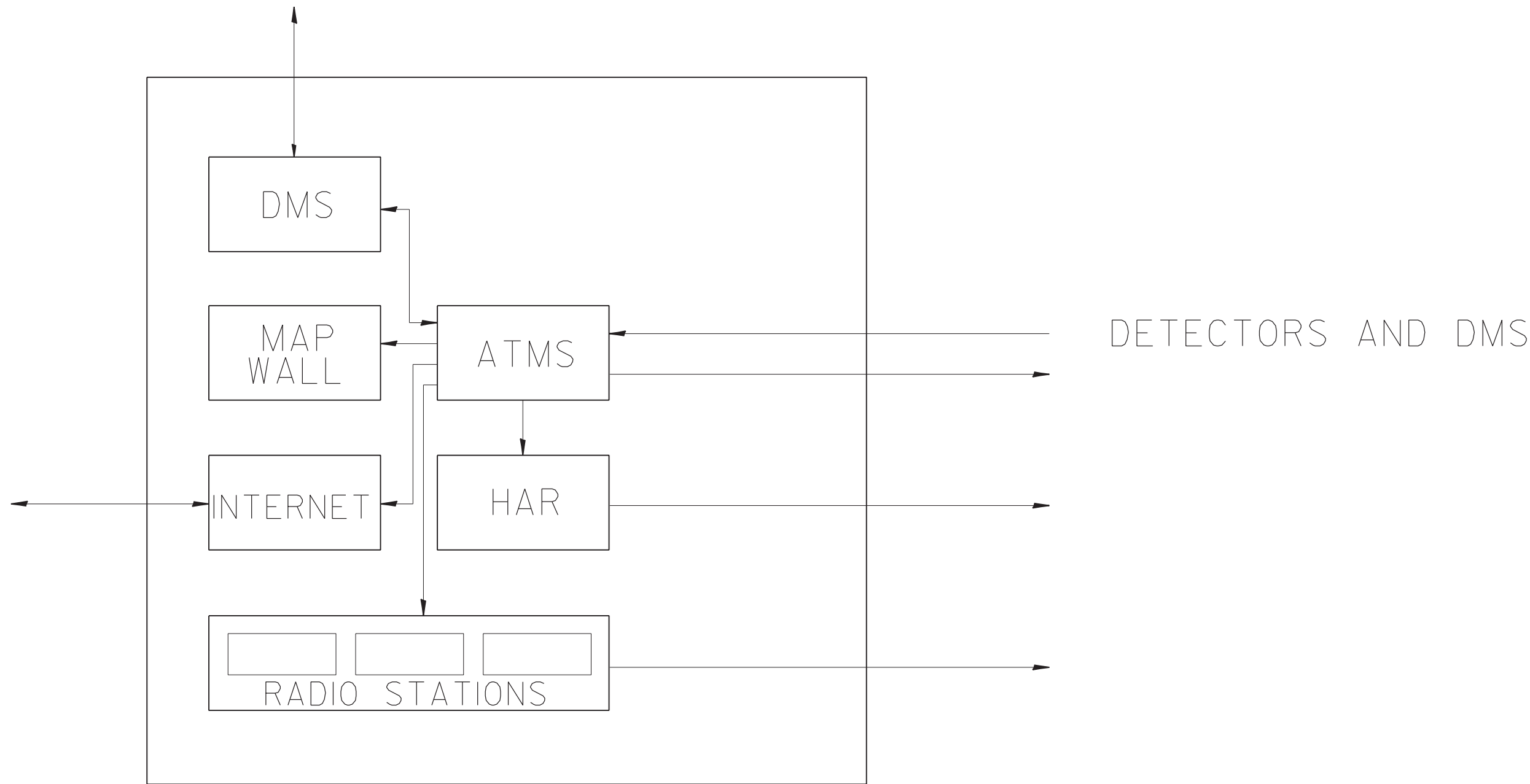
COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

NOTE:

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

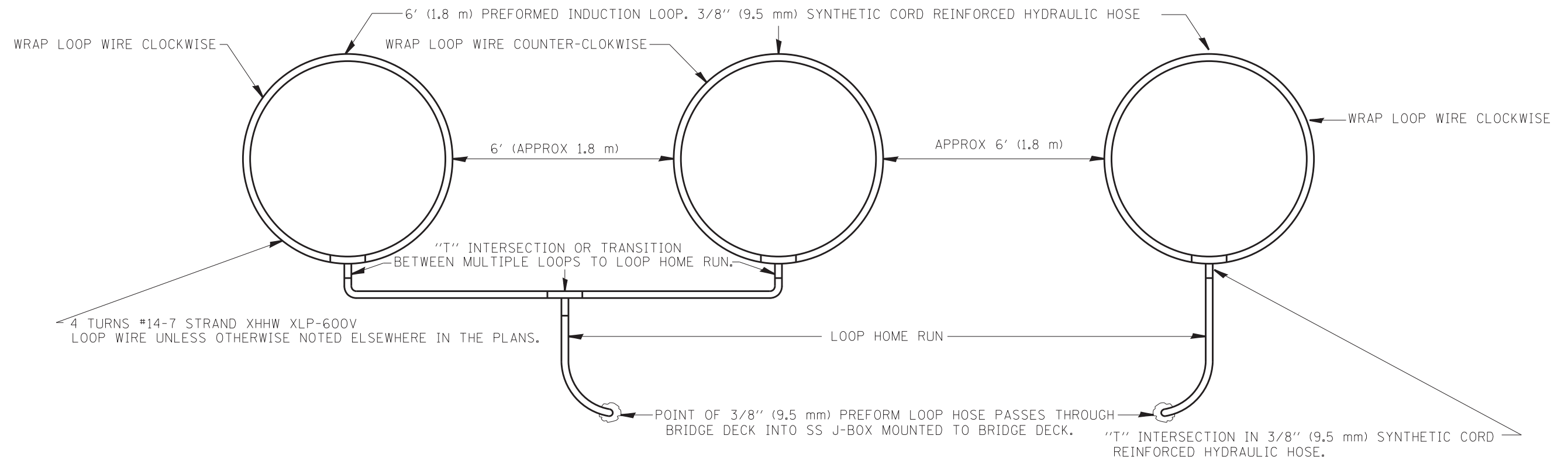
INSTALL AT STATIONS.

FILE NAME =	USER NAME = mezag	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.
et:\pw\work\p\dot\mezag\d0287541\TSCYP.dgn	PLOT SCALE = 100.0000' / in.	DRAWN - G.M.	REVISED -								888	832
	PLOT DATE = 2/3/2012	CHECKED - J.G.	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60X07		
		DATE - 01-31-07	REVISED -					ILLINOIS FED. AID PROJECT				

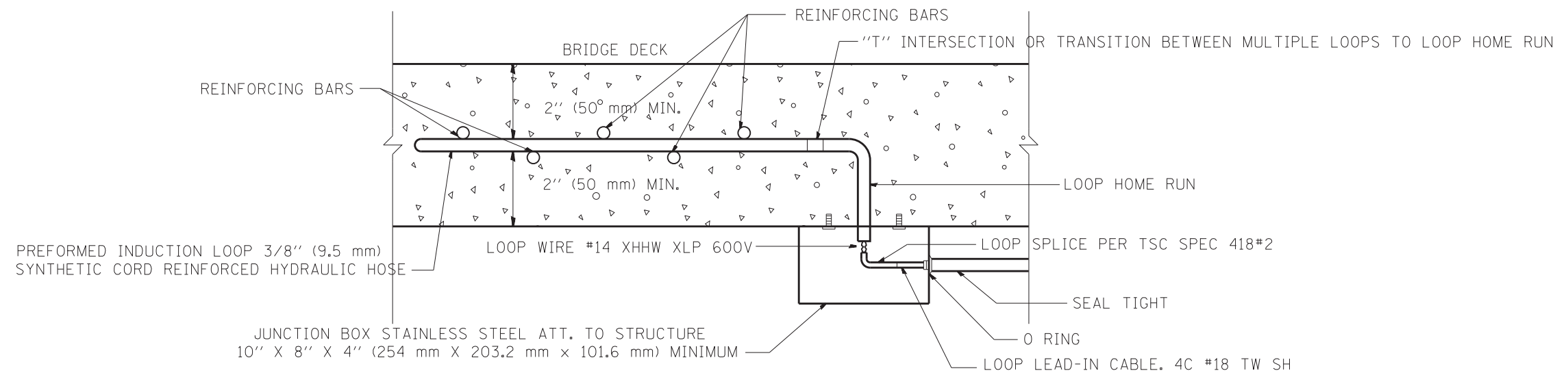


TSC

FILE NAME = C:\nd106010\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.	
#FILEL#		DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 60X07		888	833	
#MODELNAME#		CHECKED - J.G.	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		DATE - 01/07/2010	REVISED -					TRAFFIC SYSTEMS CENTER 4TY-ITSC-400#43)				



TYPICAL 3 LANE COUNT STATION EMBEDDED IN BRIDGE DECK

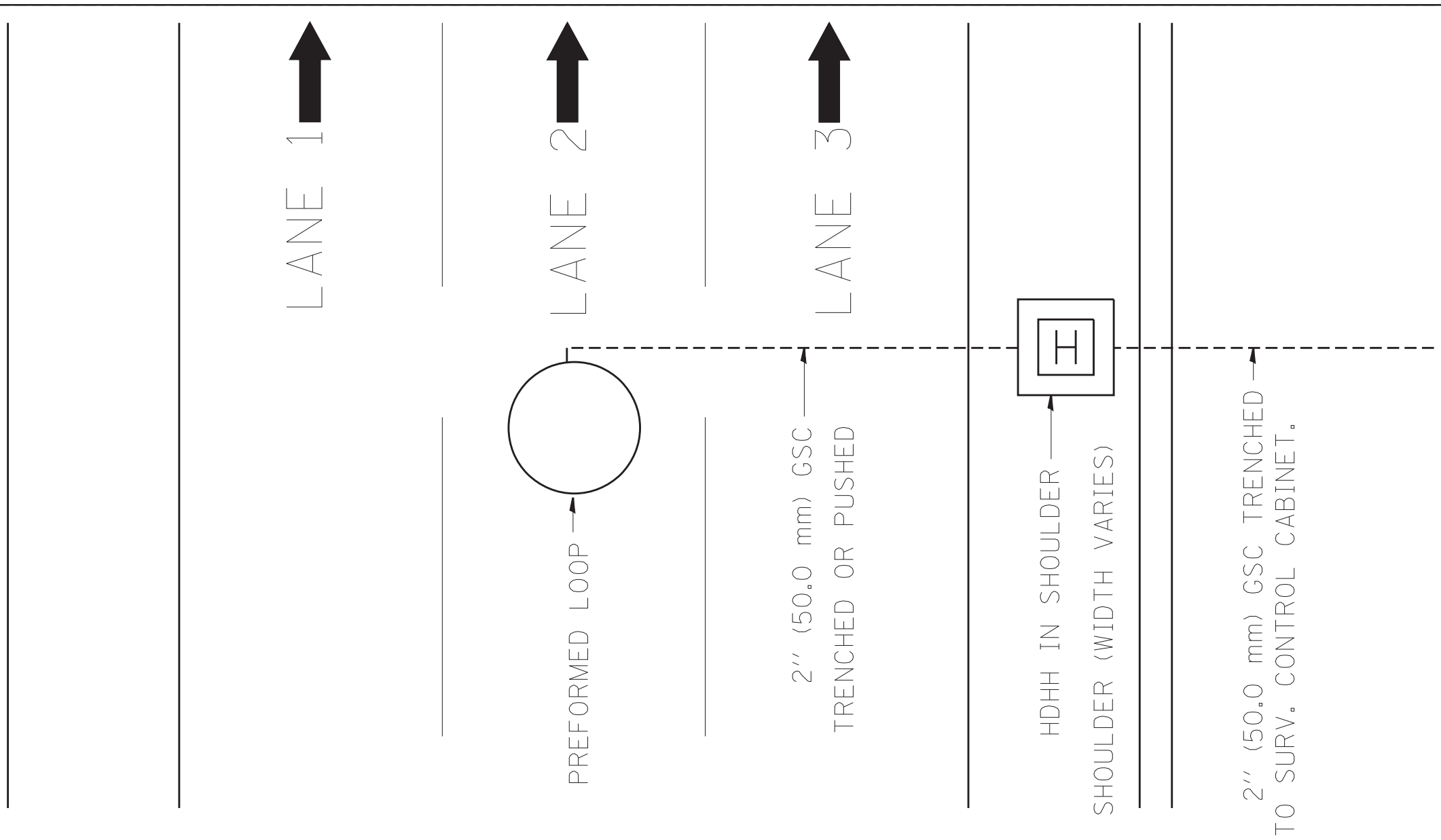


LOOP JUNCTION BOX UNDER BRIDGE DECK

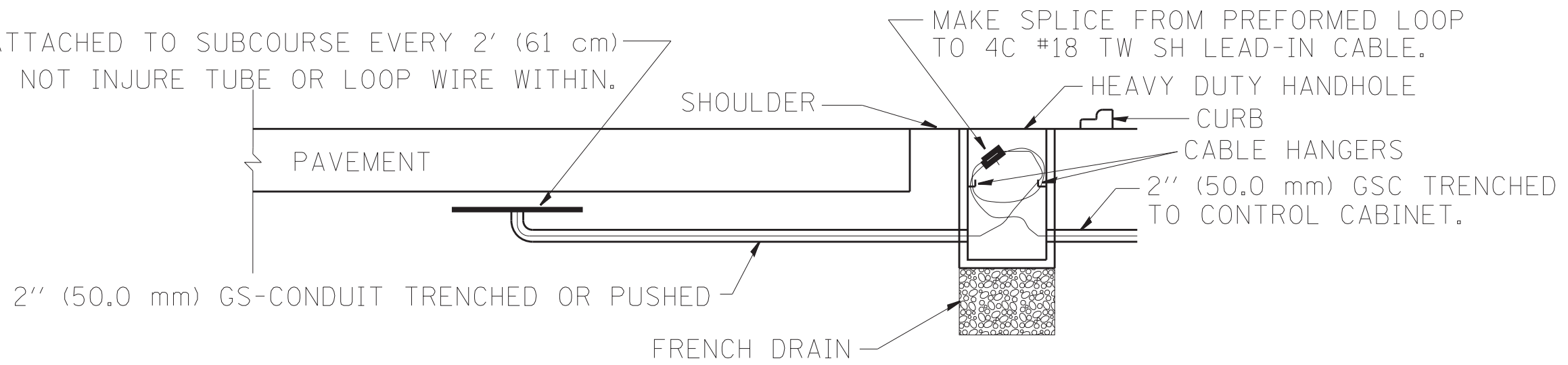
NOTES:

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.

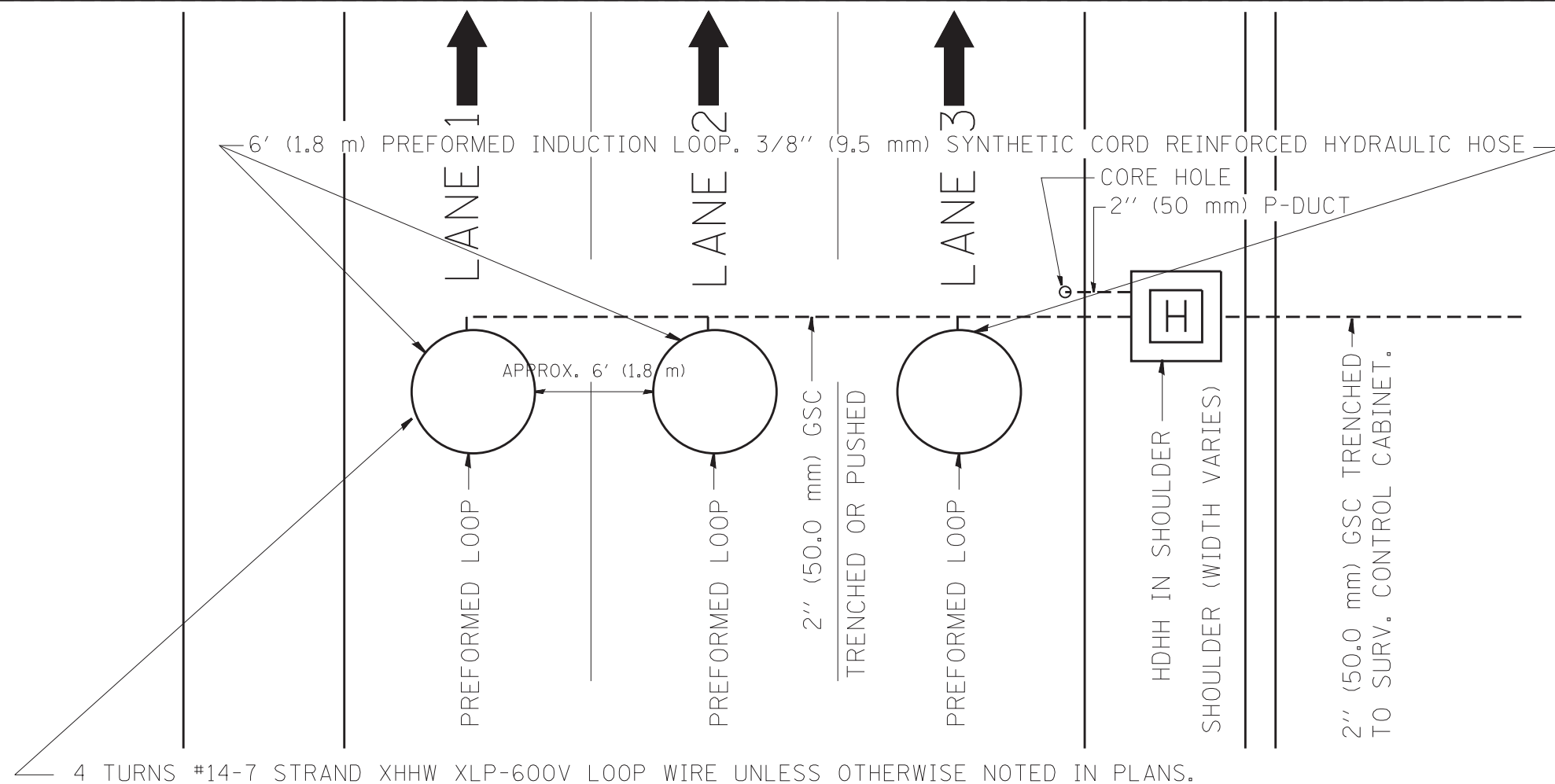
FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PREFORMED LOOP INSTALLATION IN BRIDGE DECK			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\idot\mezag\d0287541\TSCYP.dgn		DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	888	835
		CHECKED - R.L.	REVISED -									CONTRACT NO. 60X07	
		DATE - 2-97	REVISED -										



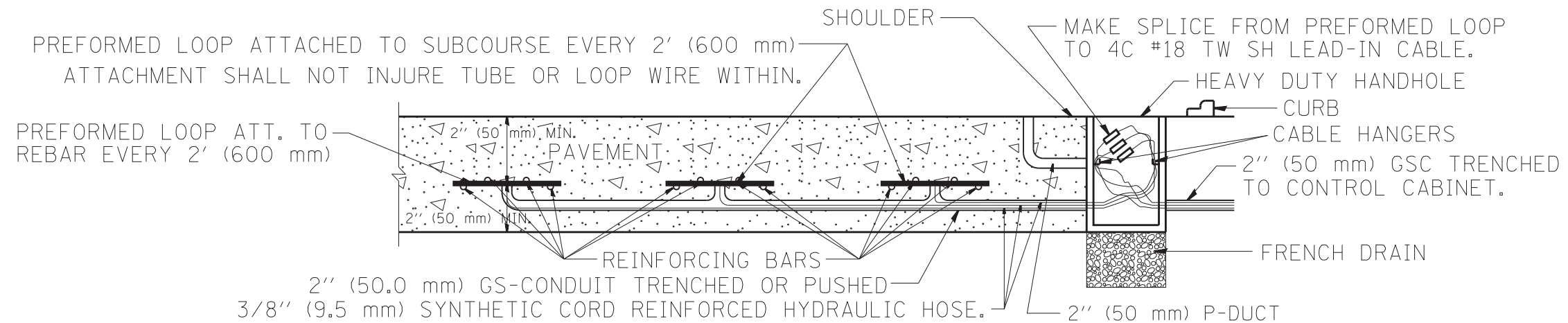
PREFORMED LOOP ATTACHED TO SUBCOURSE EVERY 2' (61 cm)
ATTACHMENT SHALL NOT INJURE TUBE OR LOOP WIRE WITHIN.



FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PREFORMED LOOP TYPICAL INSTALLATION NON-BRIDGE DECK APPLICATION			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p1dot\mezag\d0287541\TSC1YP.dgn		DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.			888	836
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	PLOT DATE = 2/7/2013	DATE - 03/18/02	REVISED -							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



TYPICAL 3 LANE COUNT STATION IN NEW CONCRETE PAVEMENT

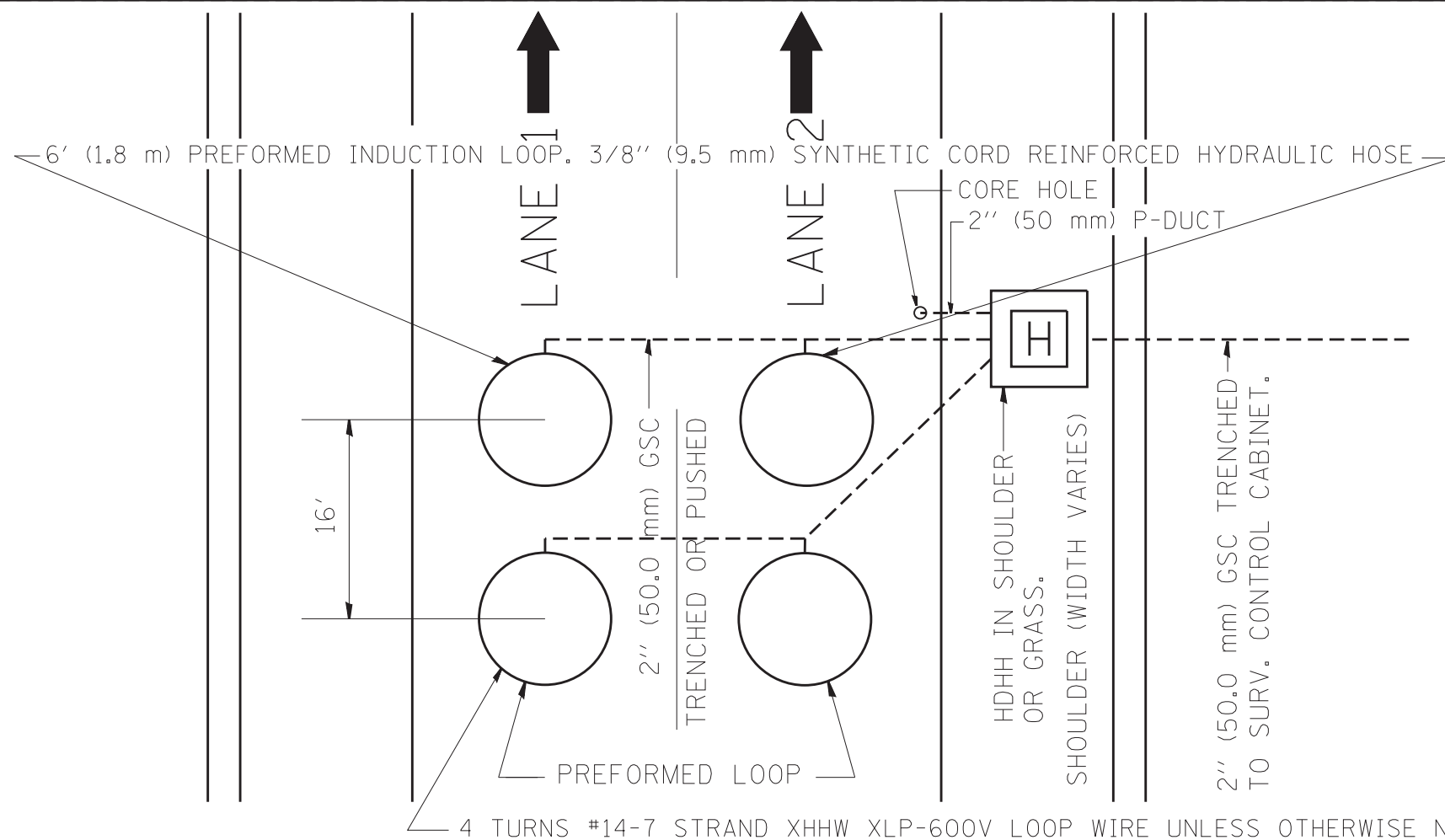


LOOP INSTALLATION IN NEW CONCRETE PAVEMENT

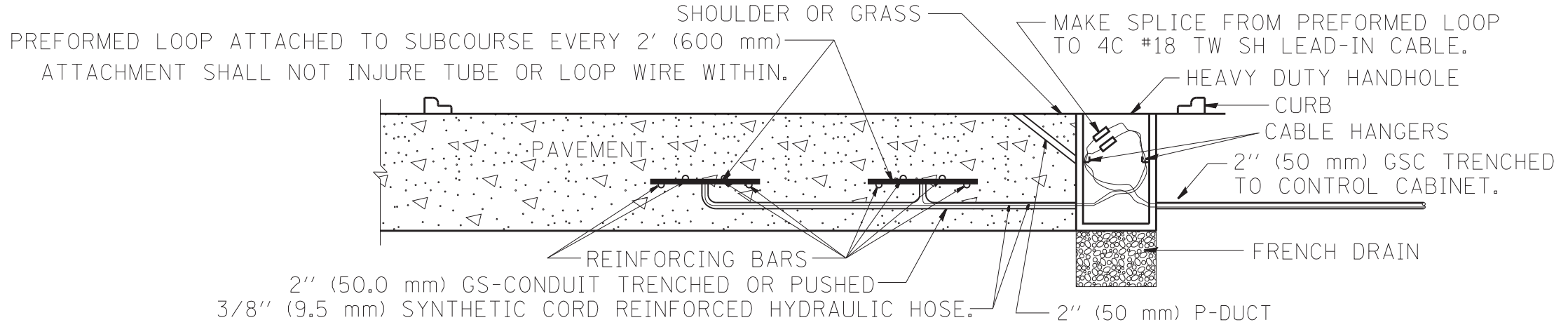
NOTES:

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.
- 4.- FOR LANES 1 AND 3 WRAP LOOPS CLOCKWISE, FOR LANE 2 WRAP LOOP COUNTER CLOCKWISE.
- 5.- FOR COUNT STATIONS WHICH HAVE MORE THAN 3 LANES, A 3" (75 mm) GSC SHALL BE USED.
- 6.- COREHOLE SHALL BE FILLED WITH DUCT SEAL. JOINT SEALER (OZ GEDNEY DOZSEAL 230 OR BETTER) SHALL BE ADDED AFTER DUCT SEAL.

FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PREFORMED LOOP TYPICAL INSTALLATION NEW CONCRETE PAVEMENT			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 2/7/2013	DATE - 06/22/04	CHECKED - J.G.	REVISED -		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60X07				
			REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



TYPICAL 2 LANE SPEED COUNT, CLASSIFICATION STATION IN NEW CONCRETE PAVEMENT

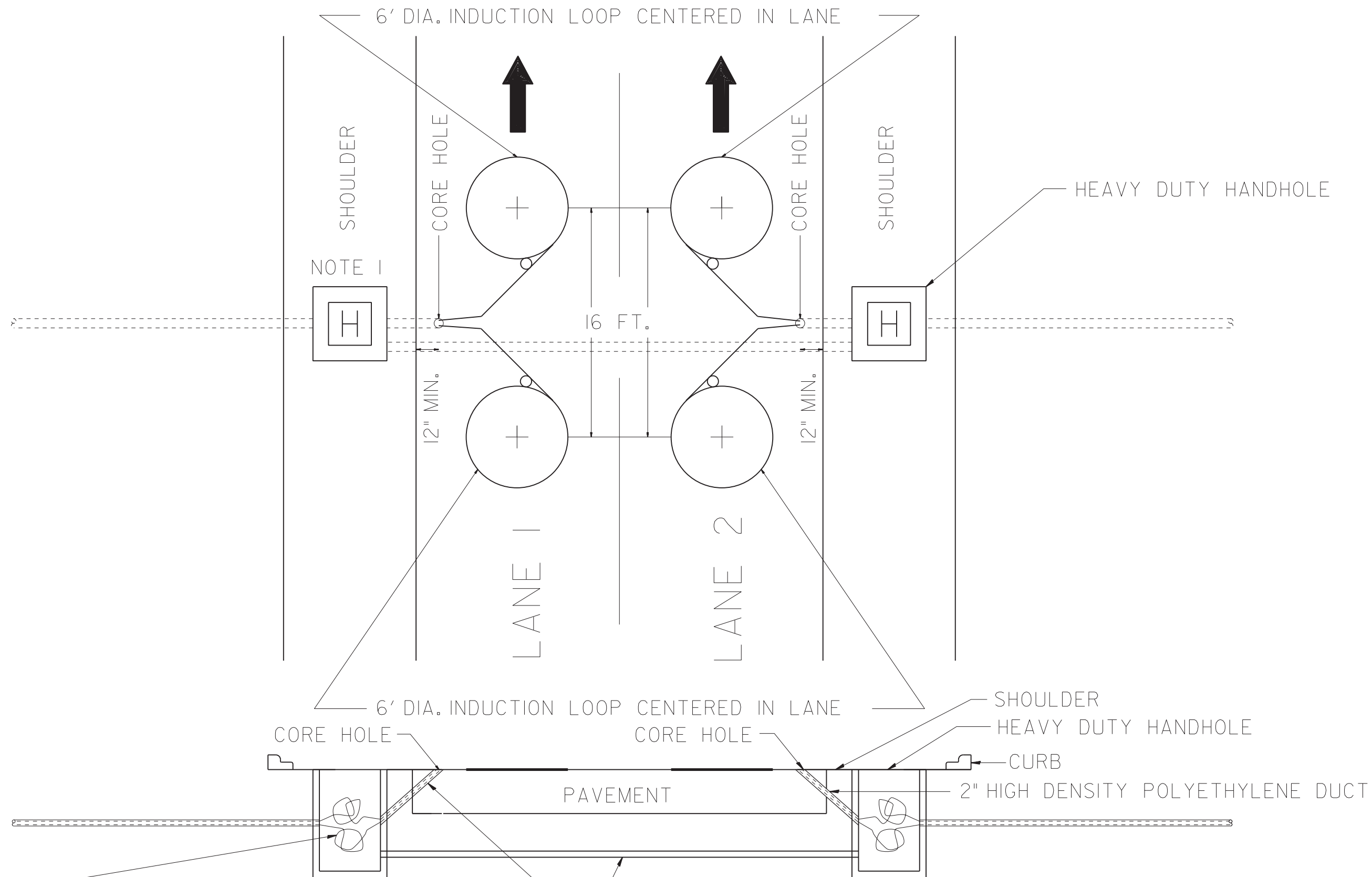


LOOP INSTALLATION IN NEW CONCRETE PAVEMENT

NOTES:

- 1.- EACH INDUCTION LOOP SHALL HAVE ITS OWN 4C #18 TWISTED SHIELD LEAD-IN CABLE TO CABINET.
- 2.- INDUCTION LOOPS SHALL NOT BE CONNECTED IN SERIES WITH OTHER LOOPS.
- 3.- LOOPS LOCATED OVER 1000' (300 m) FROM CABINET SHALL REQUIRE 5 TURNS OF #14 WIRE.
- 4.- FOR LANE 1 WRAP LOOPS CLOCKWISE, FOR LANE 2 WRAP LOOP COUNTER CLOCKWISE.
- 5.- COREHOLE SHALL BE FILLED WITH DUCT SEAL. JOINT SEALER (OZ GEDNEY DOZSEAL 230 OR BETTER) SHALL BE ADDED AFTER DUCT SEAL.

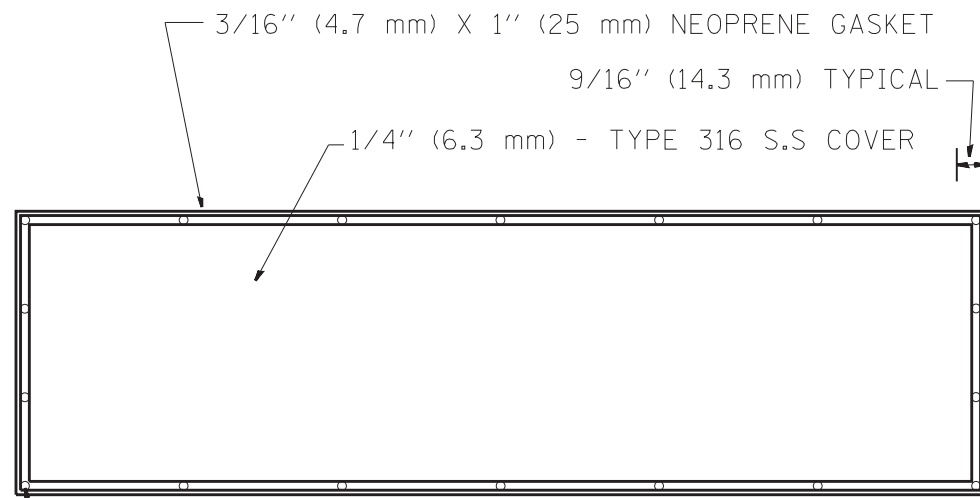
FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED - 07/01/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PREFORMED LOOP TYPICAL INSTALLATION NEW CONCRETE PAVEMENT			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\dot\mezag\d0287541\TSC1TYP.dgn		DRAWN - G.M.	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	888	838
		CHECKED - J.G.	REVISED -					CONTRACT NO. 60X07					
		DATE - 06/25/2010	REVISED -										



LOOP WIRE IF > 150FT. TO CABINET SPLICE
 4C #18 TWISTED SHIELDED TO LOOP WIRE.

NOTE 1: IF HDHH NOT POSSIBLE THEN LANE 1 LOOPS USE SAME CORE HOLE AS LANE 2 LOOPS. IN THE OTHER DIRECTION,
 LANE 2 LOOPS WILL USE SAME CORE HOLE AS LANE 1 LOOPS.

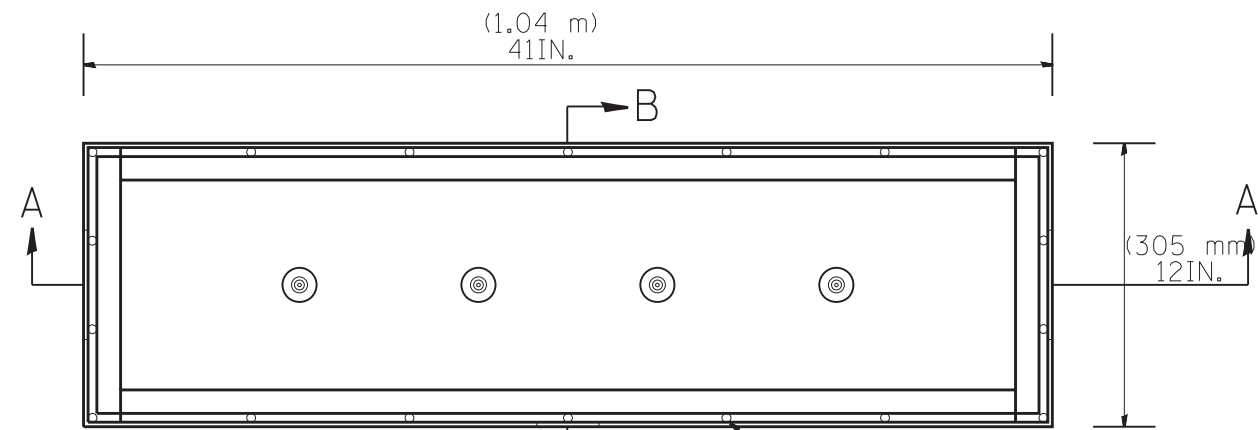
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#MODELNAME#		CHECKED - J.G.	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 60X07
		DATE - 06/25/2010	REVISED -									FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



DRILL AND COUNTERSINK TOP OF COVER FOR
3/8" (9.5 mm) 16 X 3/4" (19 mm)
FLAT HEAD STAINLESS STEEL SLOTTED SCREWS

BACK VIEW

STAINLESS STEEL COVER WITH NEOPRENE GASKET



2.625 IN. (67 mm) DIA. FOR
2 IN. (50.0 mm) GS-CONDUIT

3/8 IN. (9.5 mm)-16 TAP

TOP VIEW

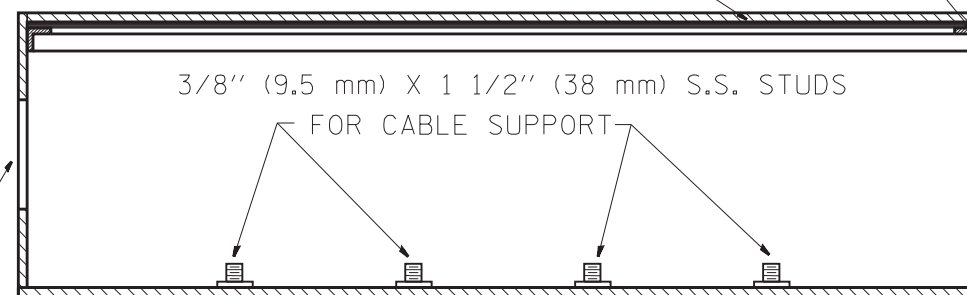
STAINLESS STEEL JUNCTION BOX TYPE "J"



SIDE VIEW

STAINLESS STEEL COVER

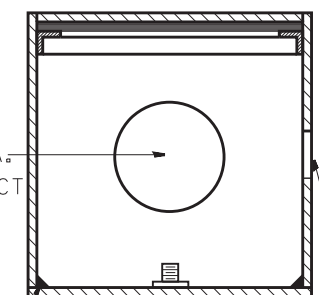
1" (25 mm) X 1" (25 mm) X 1/4" (6.3 mm) S.S. ANGLE
CONTINUOUSLY WELDED AND LEAKPROOF
NEOPRENE GASKET



4.625" (117 mm) DIA.
FOR 4" (100 mm) PVC DUCT

SIDE VIEW SECTION A-A

(305 mm)
12 IN.



4.625" (117 mm) DIA.
FOR 4" (100 mm) PVC DUCT

WELDED SEAMS (TYP.)
2.625 IN. (67 mm) DIA. HOLE

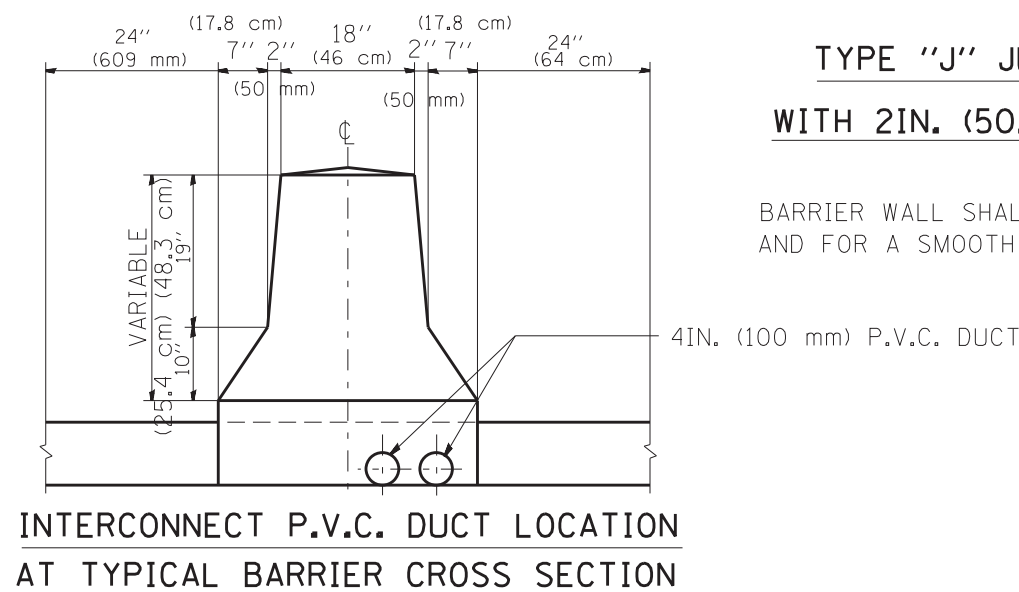
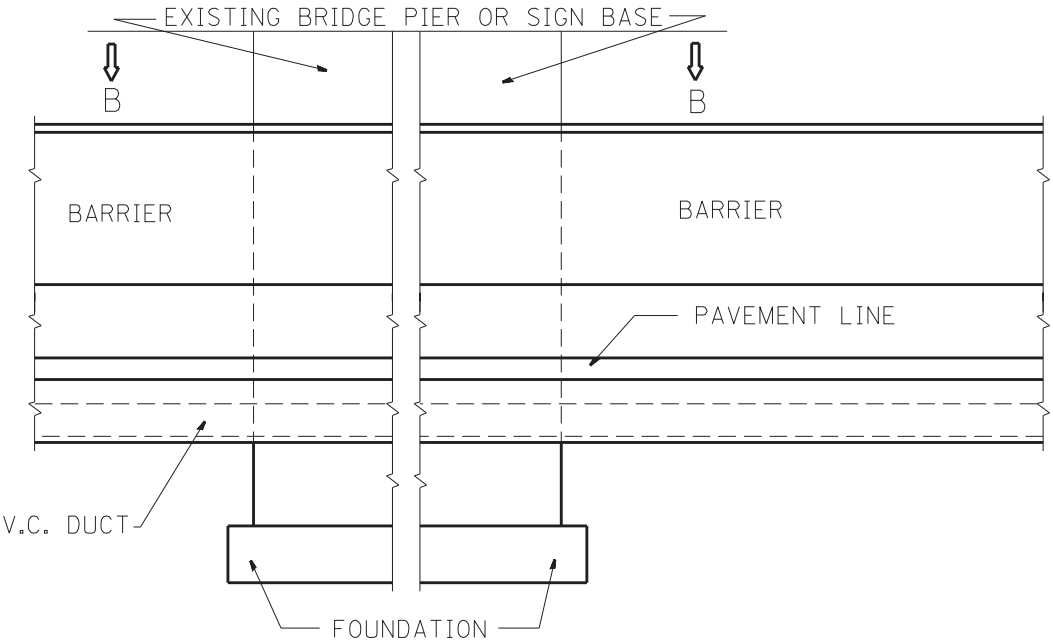
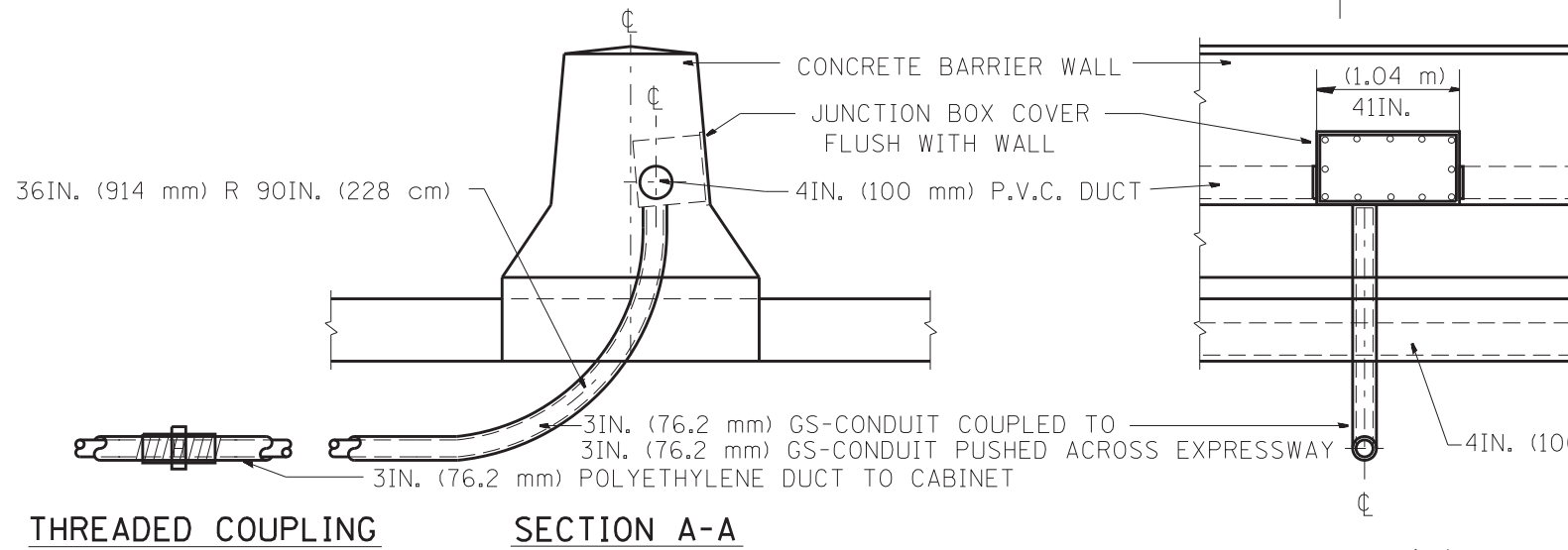
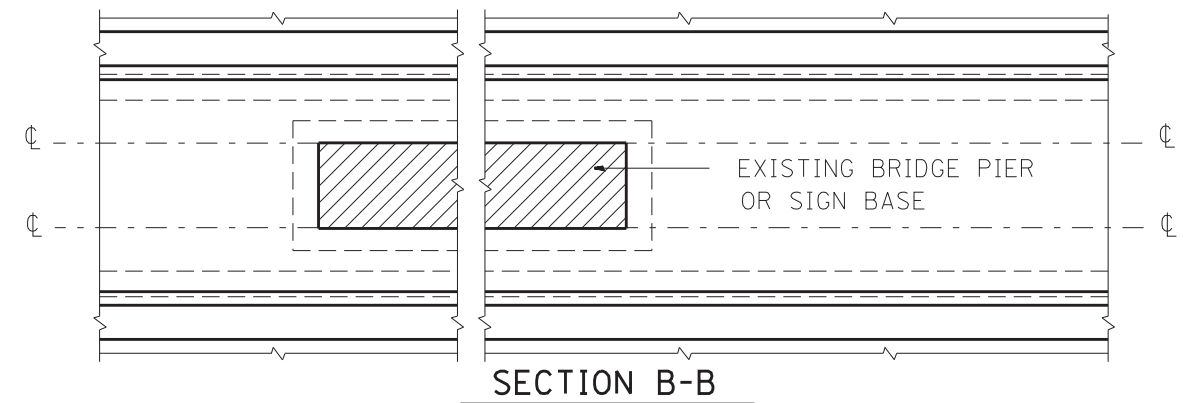
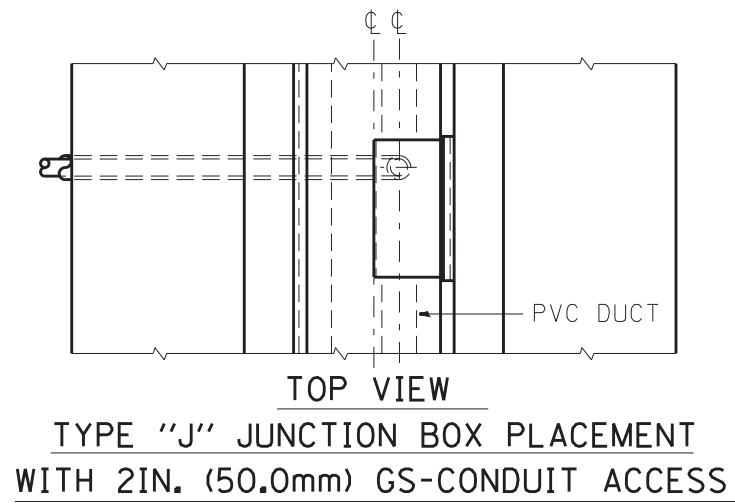
SIDE VIEW SECTION B-B

NOTE:

JUNCTION BOX TO BE CONSTRUCTED OF
1/4 IN. (6.3 mm) TYPE 316 STAINLESS STEEL
ALL WELDS SHALL BE CONTINUOUS AND LEAKPROOF
ALL COVERS SHALL BE UNIVERSAL IN FIT.

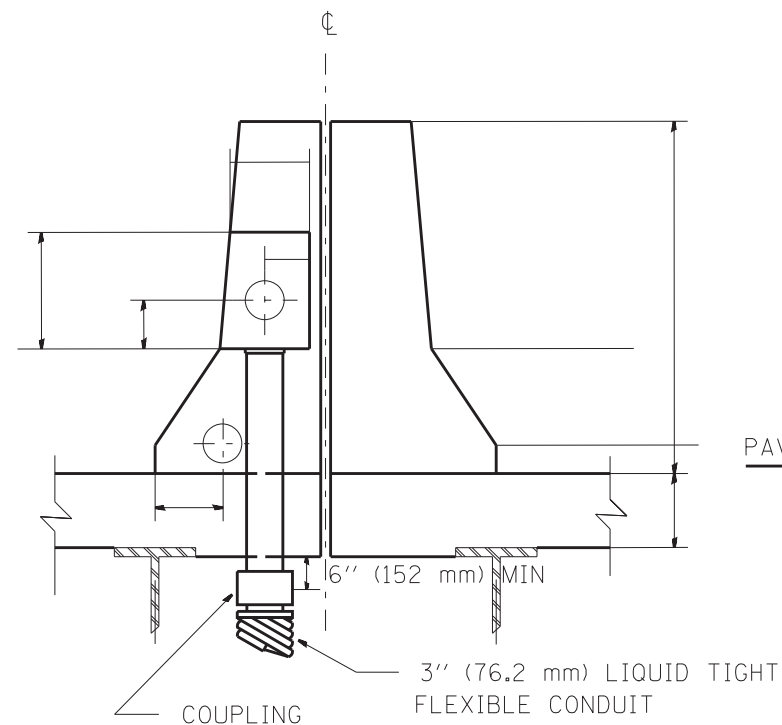
BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15FT. (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J" AND FOR A SMOOTH TRANSITION OF 4IN. (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	CONCRETE BARRIER WALL JUNCTION BOX TYPE "J"			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\idot\mezag\d0287541\TSCTYP.dgn		DRAWN - G.M.	REVISED - 10/96		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	888	840
		CHECKED - R.L.	REVISED -										
		DATE - 06/22/94	REVISED -										

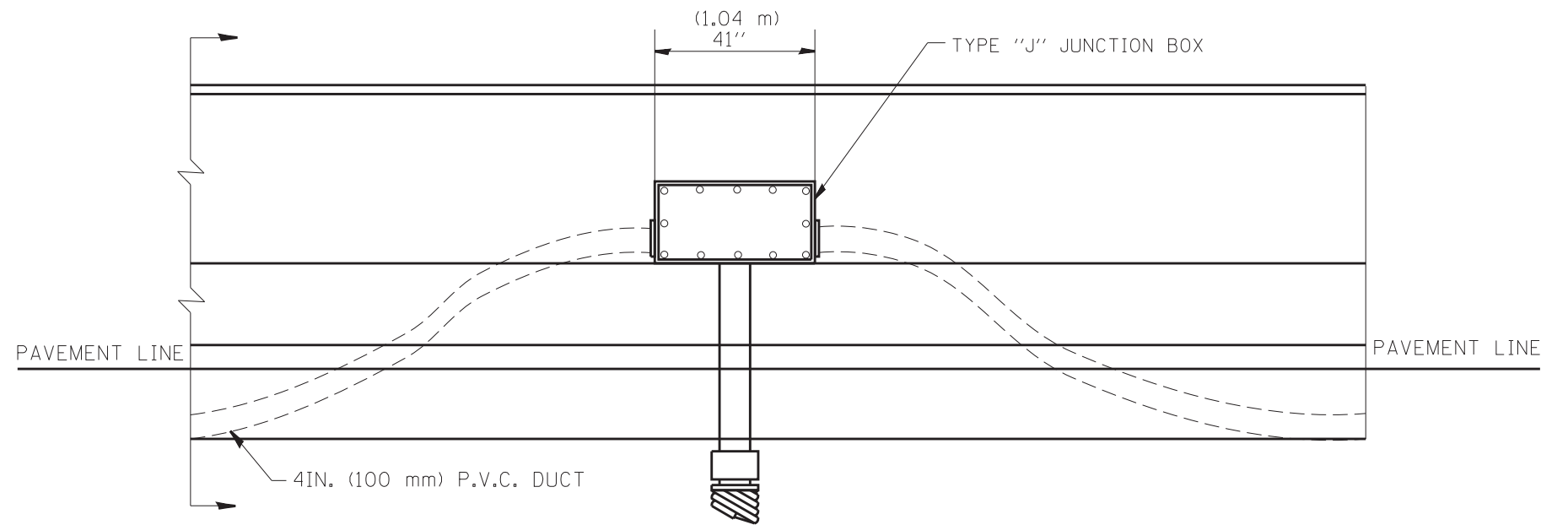


BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15FT. (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J" AND FOR A SMOOTH TRANSITION OF 4IN. (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

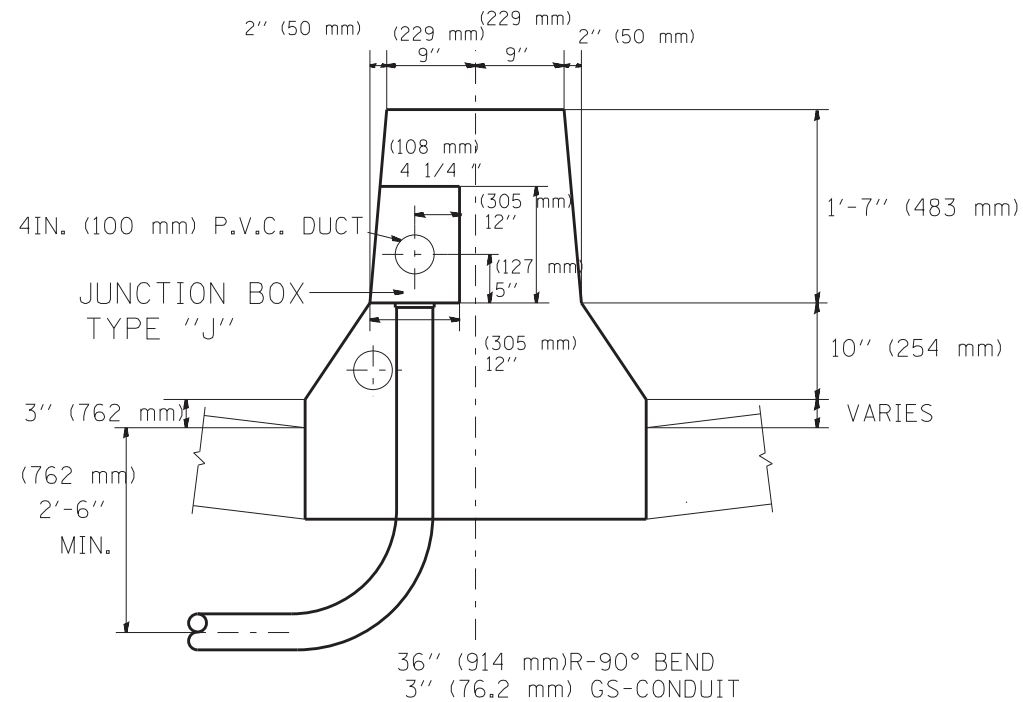
FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TYPE "J" JUNCTION BOX & P.V.C. DUCT PLACEMENT	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\idot\mezag\d0287541\TSCTYP.dgn	DRAWN - G.M.	REVISED - 10/96						888	841		
PLOT SCALE = 100.0000' / 1"	CHECKED - R.L.	REVISED -						CONTRACT NO. 60X07			
PLOT DATE = 2/7/2013	DATE - 06/22/94	REVISED -						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



**DOUBLE SINGLE FACED BARRIER WALL
ON BRIDGE DECK**



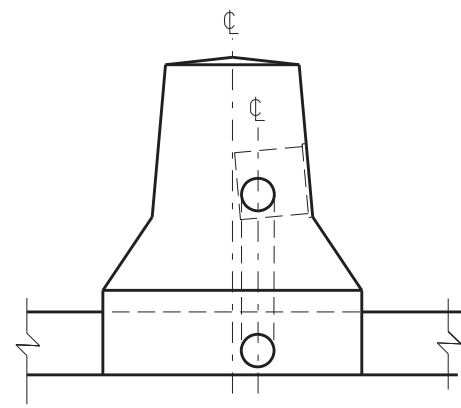
**ELEVATION
BARRIER WALL DUCT DETAIL
ON BRIDGE DECK**



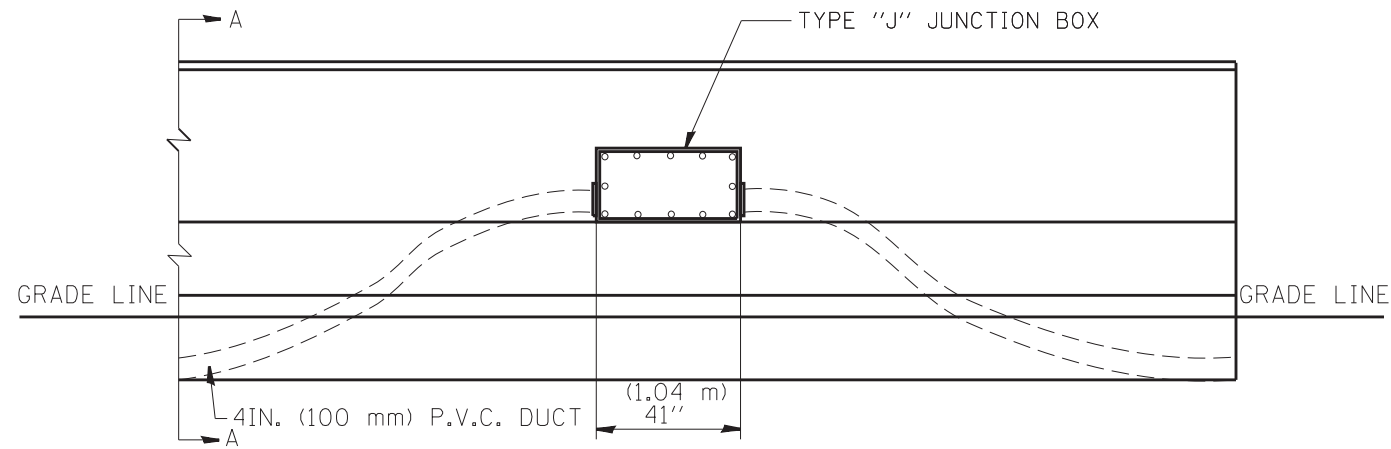
DOUBLE FACED BARRIER WALL

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.

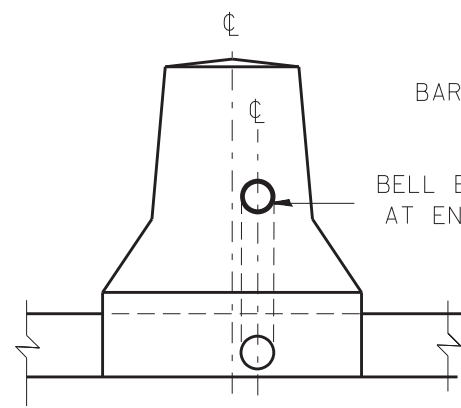
FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TRAFFIC SURVEILLANCE BARRIER WALL DUCT DETAIL ON BRIDGE DECK			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw\work\p\idot\mezag\d0287541\TSCTYP.dgn	PLOT SCALE = 100.0000' / 1"	DRAWN - G.M.	REVISED - 10/96		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	888	842
PLOT DATE = 2/7/2013	DATE - 06/22/94	CHECKED - R.L.	REVISED - 02/98					CONTRACT NO. 60X07					
		DATE - 06/22/94	REVISED -										



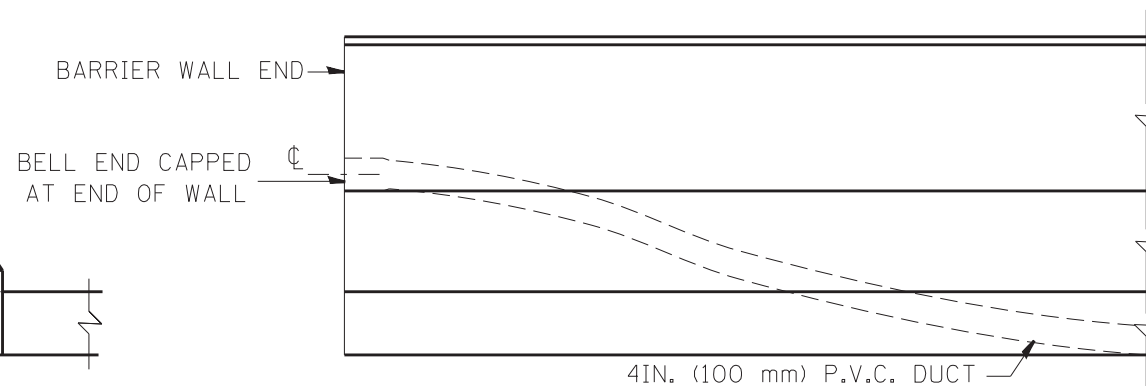
SECTION A-A



ELEVATION
BARRIER WALL DUCT DETAIL
1500FT. (457.2 m) INTERVAL

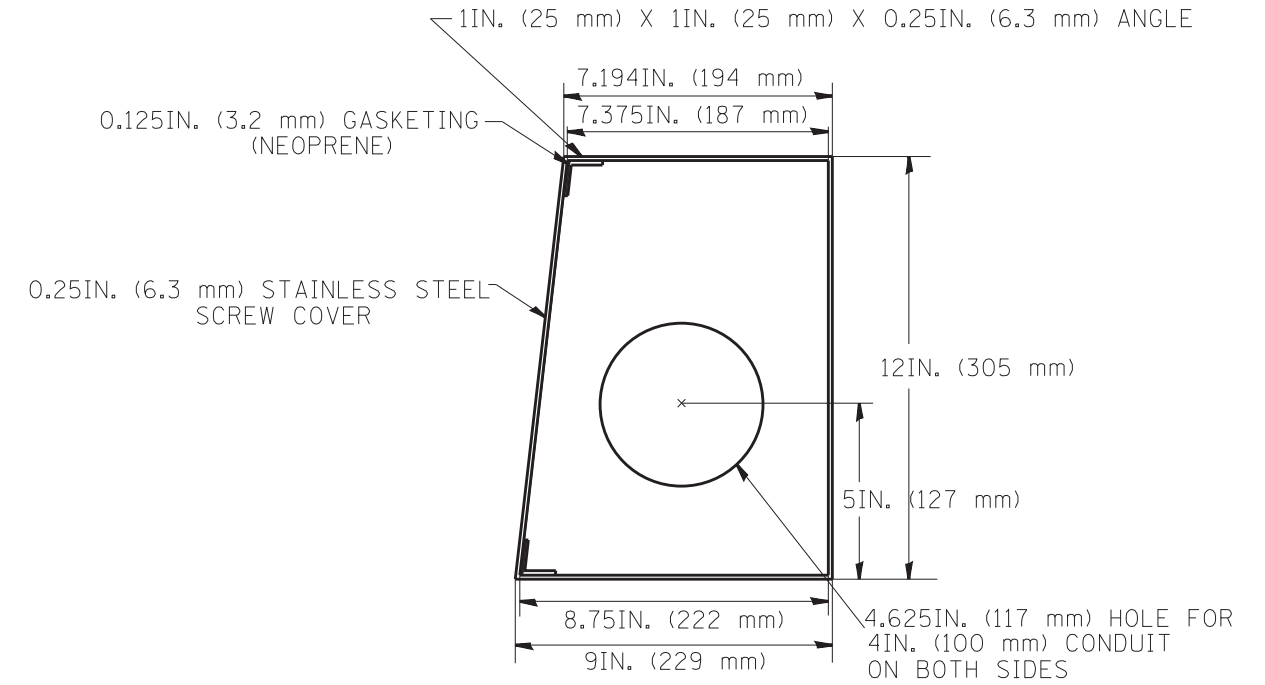


END VIEW



ELEVATION

END OF BARRIER WALL DUCT DETAIL



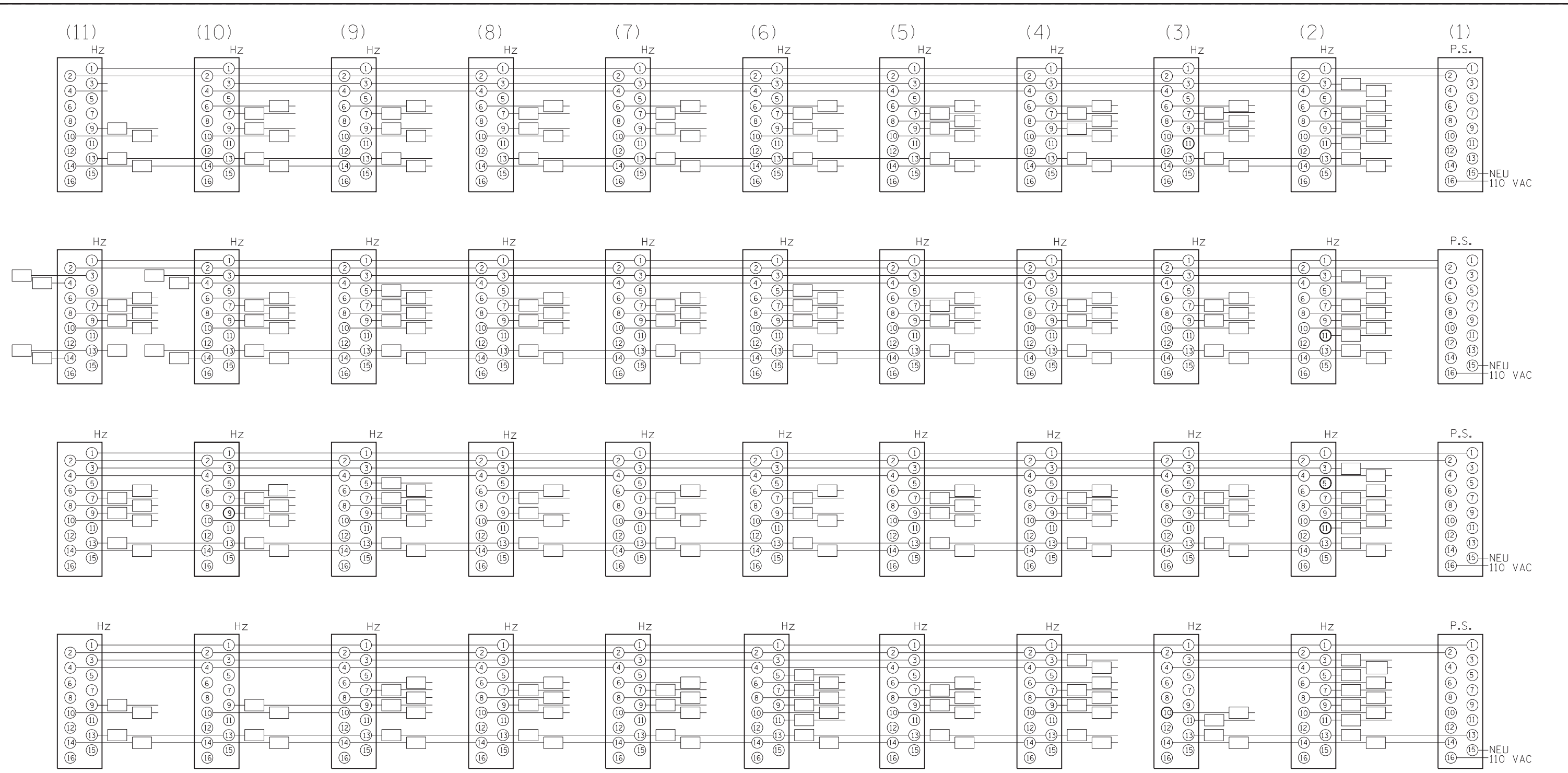
SIDE VIEW

SPECIAL JUNCTION BOX TYPE "J" TO BE
INSTALLED IN BARRIER WALL TYPE "2" ONLY

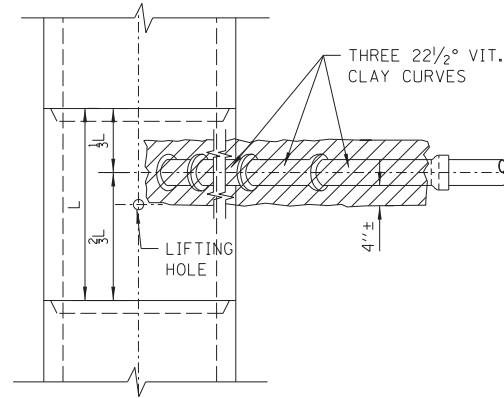
ALL WELDS SHALL BE CONTINUOUS AND LEAK PROOF
BOX AND COVER SHALL BE 0.25IN. (6.4 mm) TYPE 316 STAINLESS STEEL

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.

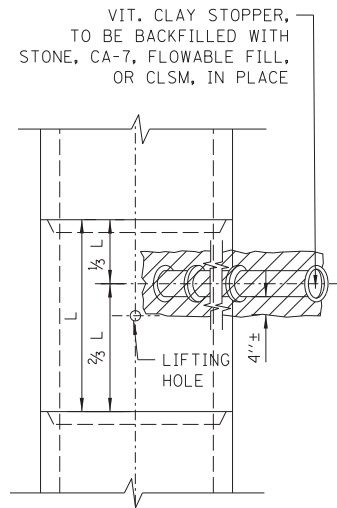
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PLOT SCALE = 100.0000' / 1IN.	CHECKED - R.L.	REVISED - 10/96	REVISED - 02/94		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	888	843
PLOT DATE = 2/7/2013	DATE - 06/22/94	REVISED -	REVISED -								CONTRACT NO. 60X07		
TRAFFIC SYSTEMS CENTER (TY-1TSC-663#4)													



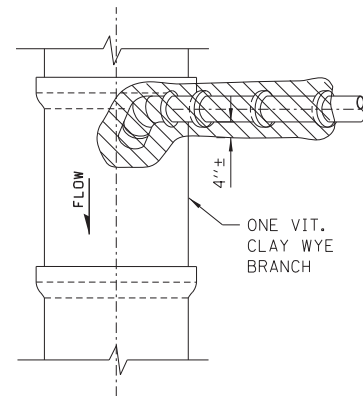
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	PLOT DATE = 2/7/2013	DATE - 06/22/94	REVISED -										



PLAN

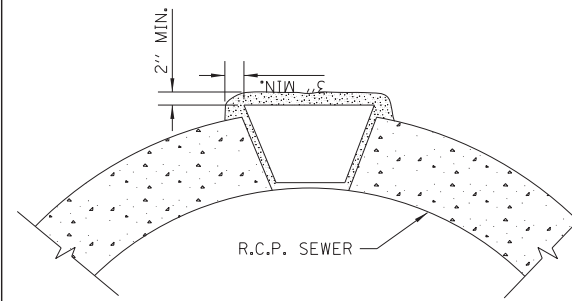


PLAN

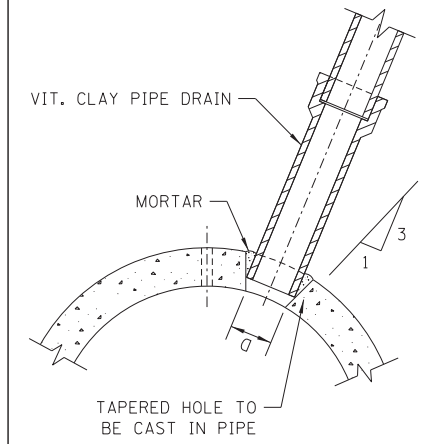


PLAN

NOTE:
PLUG TO BE COATED WITH MORTAR AND
DRIVEN INTO PLACE WITH A WOODEN
MALLET AND THEN SEALED WITH MORTAR.

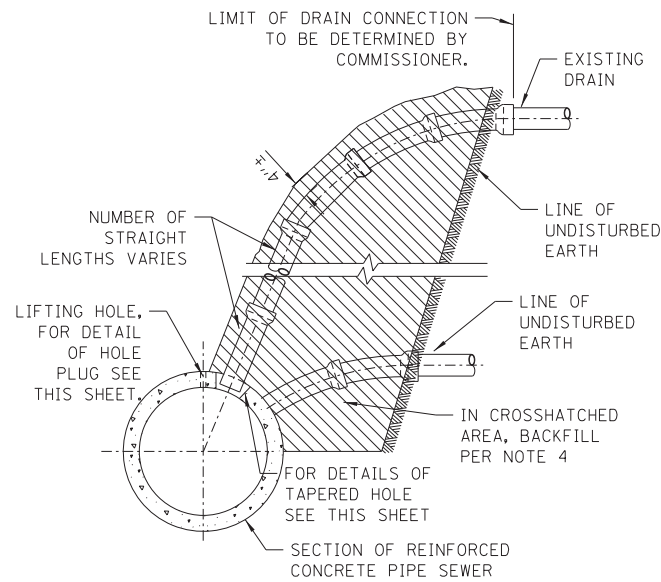


LIFTING HOLE PLUG DETAIL
FOR CONCRETE PIPE

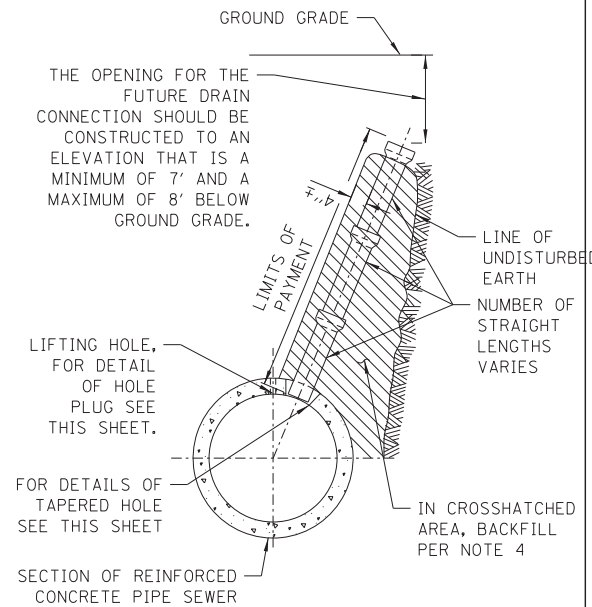


DETAIL OF TAPERED HOLE

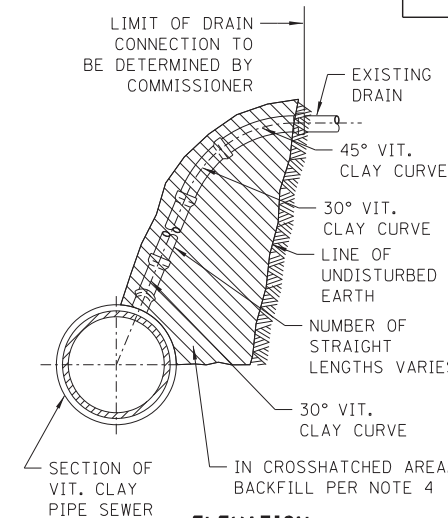
SIZE OF DRAIN	"D"
6"	6 7/8"
8"	9 1/8"
10"	11 1/8"
12"	13 1/2"
15"	17"
18"	20 1/4"
21"	23 7/8"
24"	27 1/4"



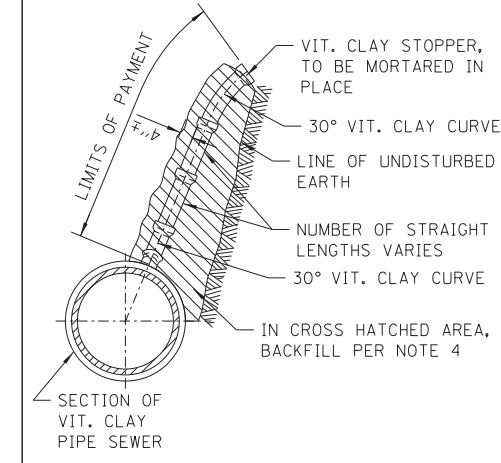
TYPICAL DRAIN CONNECTIONS
FOR EXISTING DRAINS



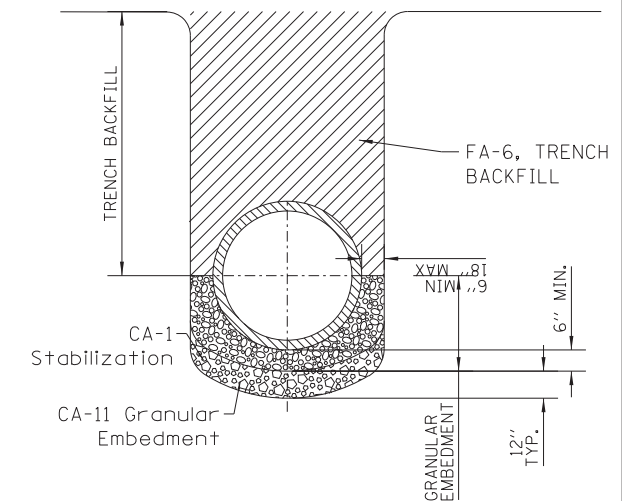
TYPICAL DRAIN STACKS
FOR FUTURE USE



ELEVATION
TYPICAL DRAIN
CONNECTIONS FOR
EXISTING DRAINS



ELEVATION
TYPICAL DRAIN STACKS
FOR FUTURE USE



NOTE:
1. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND OR STONE SAND.
2. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.
3. 12" OF CA-1 STONE IS ONLY REQUIRED WHEN UNSTABLE MATERIAL IS ENCOUNTERED AT TRENCH BOTTOM.

SEWER TRENCH DETAIL

NOTES:

1. ALL DRAIN CONNECTION JOINTS MUST BE MADE AS SPECIFIED IN SPECIFICATIONS..
2. FOR DUCTILE IRON PIPE DRAIN CONNECTIONS SEE SHEET NO. A.2.
3. FOR ALL GRANULAR EMBANKMENT, USE CA-7 OR CA-11
4. FOR BACKFILL OF HATCHED SUPPORT AREAS, USE CONCRETE, CA-11, FLOWABLE FILL, OR CLSM.

STANDARD REVISIONS	
DATE	DESCRIPTION
2/28/18	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES				DRAWN: SDB DESIGNED: SDB CHECKED: DD, GC, SO REVIEWED: SDB	A.1 OF PN
VITRIFIED CLAY PIPE DRAIN CONNECTIONS				TOTAL SHEETS: 888 SHEET NO.: 845	
F.A.I. RTE.: 55	SECTION: 2013-049B	COUNTY: COOK	CONTRACT NO. 60X07		

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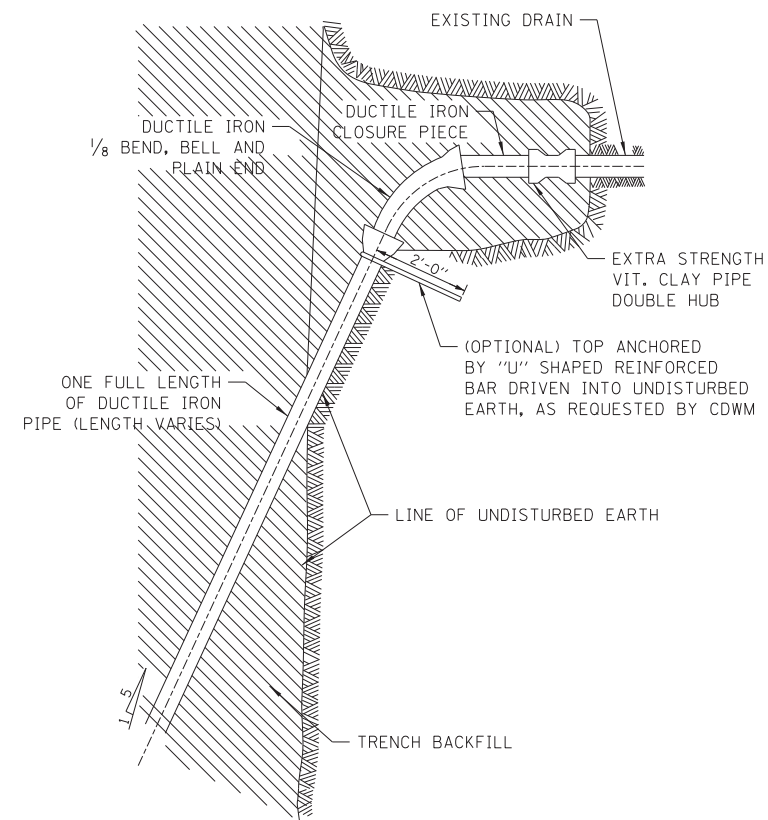
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PLOT DATE = 5/22/2015	CHECKED -	REVISED -
	DATE - 5/26/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

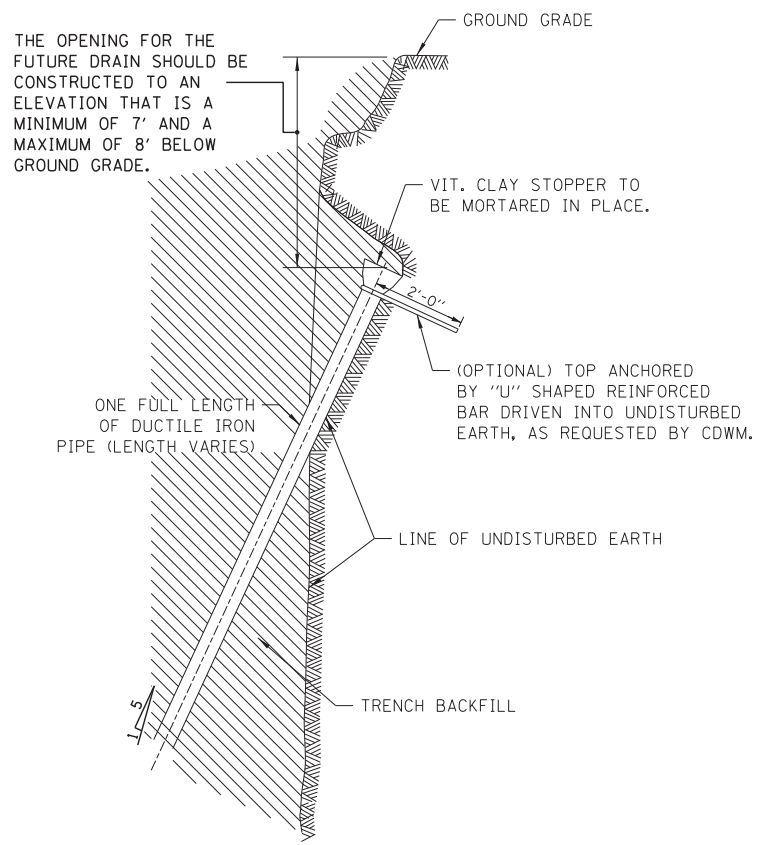
CHICAGO DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS

SCALE: NTS SHEET NO. 1 OF 12 SHEETS STA. TO STA.

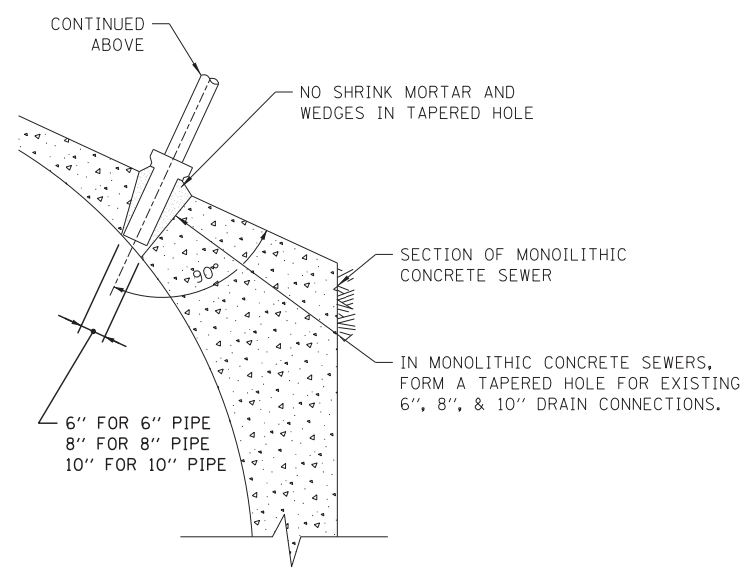
ILLINOIS FED. AID PROJECT



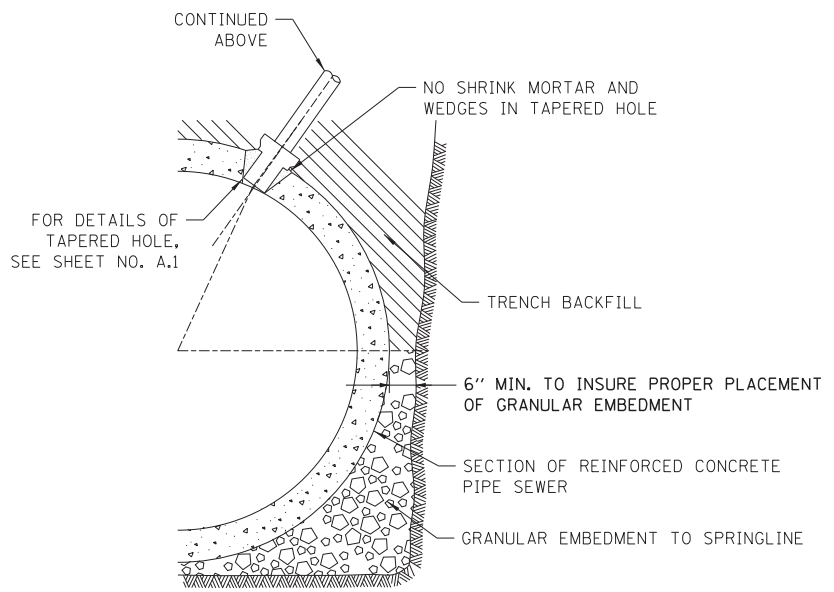
TYPICAL DRAIN CONNECTIONS FOR EXISTING DRAINS



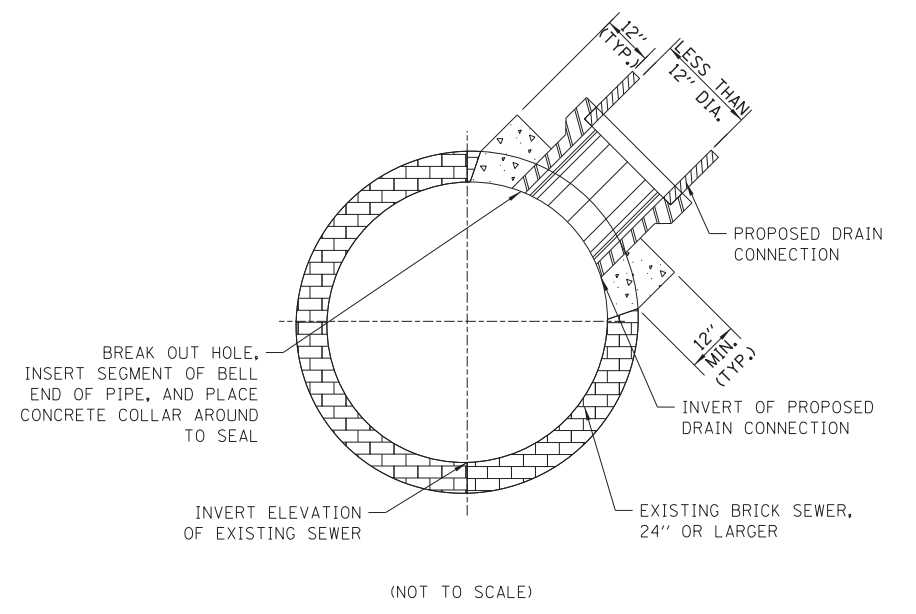
TYPICAL DRAIN STACKS FOR FUTURE USE



FOR MONOLITHIC CONCRETE SEWERS



FOR REINFORCED CONCRETE PIPE SEWERS



FOR BRICK SEWERS

- NOTES:
1. DUCTILE IRON PIPE MUST BE BELL END WITH PUSH-ON JOINTS CONFORMING TO ANSI SPECIFICATIONS A21.51 WITH CLASS 52 THICKNESS.
 2. CONNECTIONS AND STACKS SHOWN MUST BE USED FOR 6", 8", & 10" DRAINS ONLY.
 3. FOR VITRIFIED CLAY PIPE DRAIN CONNECTION AND DRAIN STACK CONSTRUCTION, SEE SHEET NO. A.1.
 4. FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND, OR STONE SAND.
 5. FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

DUCTILE IRON PIPE DRAIN CONNECTIONS

BRICK SEWER DRAIN CONNECTIONS

STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DRAWN: SBR	A.2
		DESIGNED: SBR	
DUCTILE IRON PIPE DRAIN CONNECTIONS		CHECKED: SBR	OF
		REVIEWED: SBR	
		PN	



USER NAME = augeungh	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:8000 1/4" = 1"	CHECKED -	REVISED -
PLOT DATE = 5/22/2015	DATE - 5/26/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

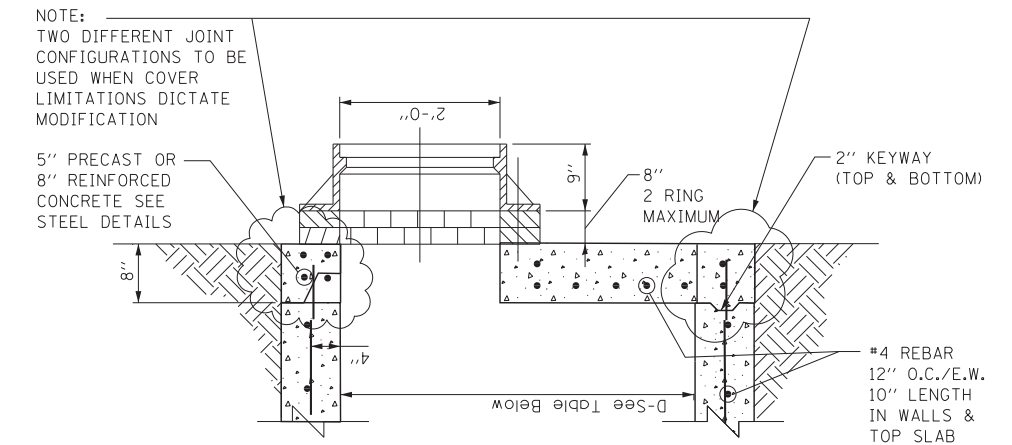
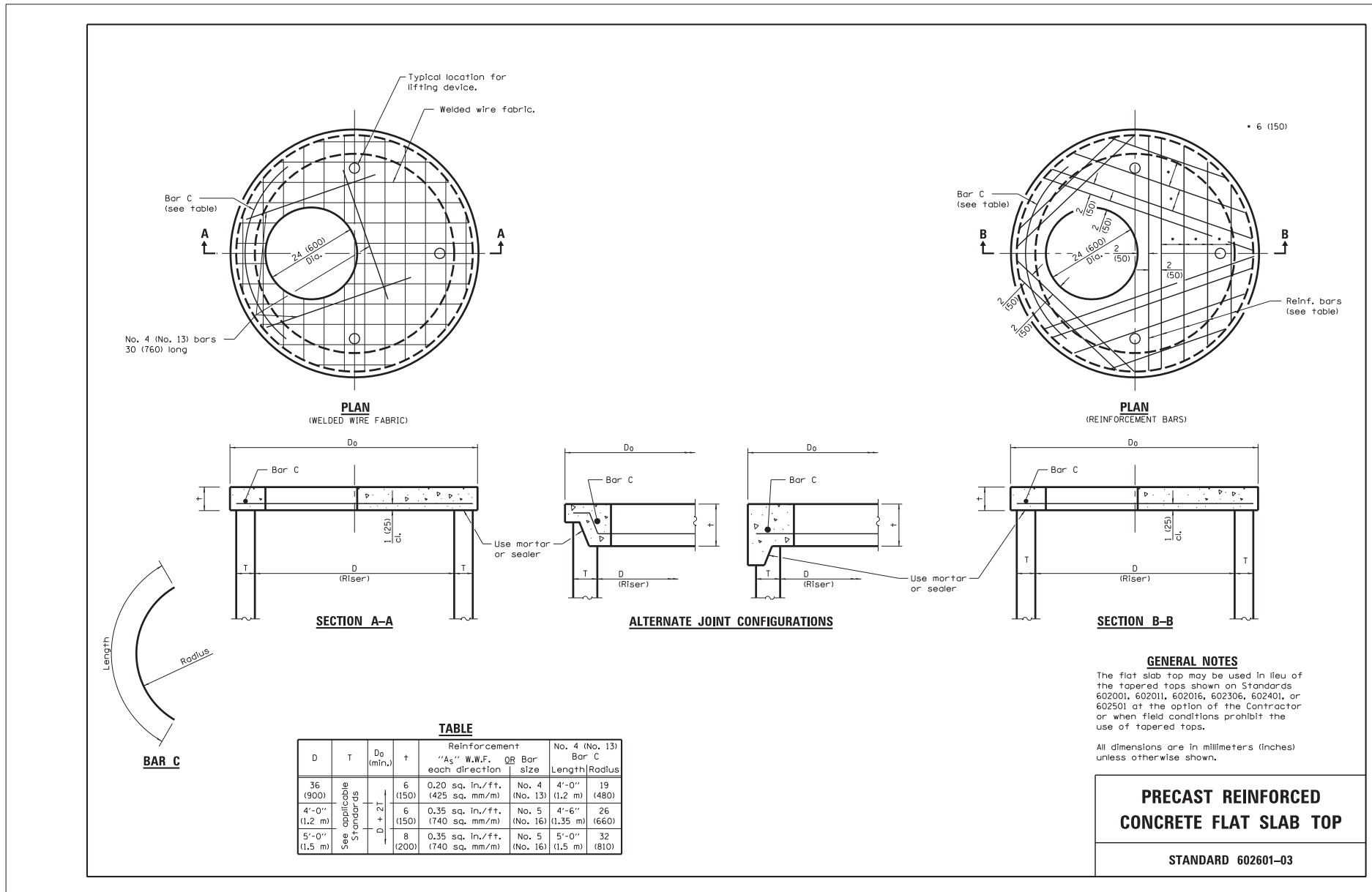
CHICAGO DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS

F.A.I. RTE. 55	SECTION 2013-049B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 846
CONTRACT NO. 60X07				
ILLINOIS FED. AID PROJECT				

FILE NAME = D:\60X07-Sht-CDWM Det\1-02.dgn

SCALE: NTS SHEET NO. 2 OF 12 SHEETS STA. TO STA.

SPECIAL DRAINAGE STRUCTURES FOR PUBLIC STREETS AND ALLEYS



STANDARD FLAT TOP SLAB FOR CATCH BASINS

NOTES:
FLAT TOP SLAB APPLICATION CAN ONLY BE USED WITH WRITTEN PERMISSION FROM CDWM.
USE LATEST IDOT DETAIL, #602601

FILE NAME = D:\60X07-Sht-CDWM Detail-04.dgn



USER NAME = ouyeungh	DESIGNED -	REVISED -
PLOT SCALE = 1:8000 / 1 in.	DRAWN -	REVISED -
PLOT DATE = 5/22/2015	CHECKED -	REVISED -
	DATE = 5/26/2015	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES

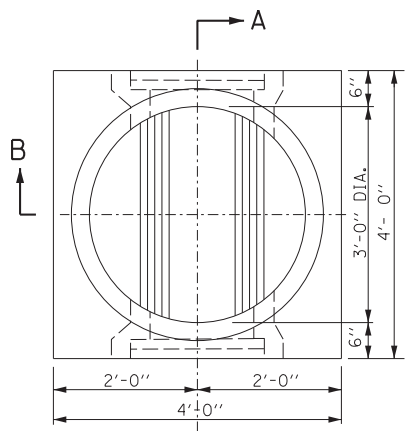
FLAT TOP SLAB DETAILS

DRAWN: SDB	A.4
DESIGNED: CHECKED:	
REVIEWED:	OF
PN	

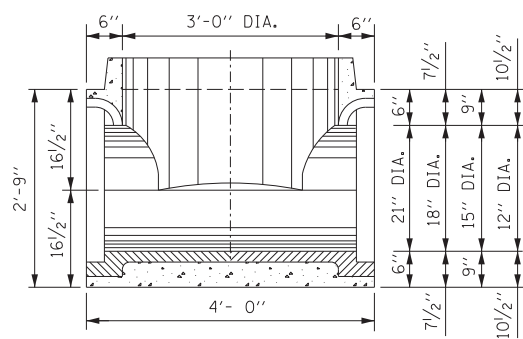
CHICAGO DEPARTMENT OF WATER MANAGEMENT STANDARD DETAILS

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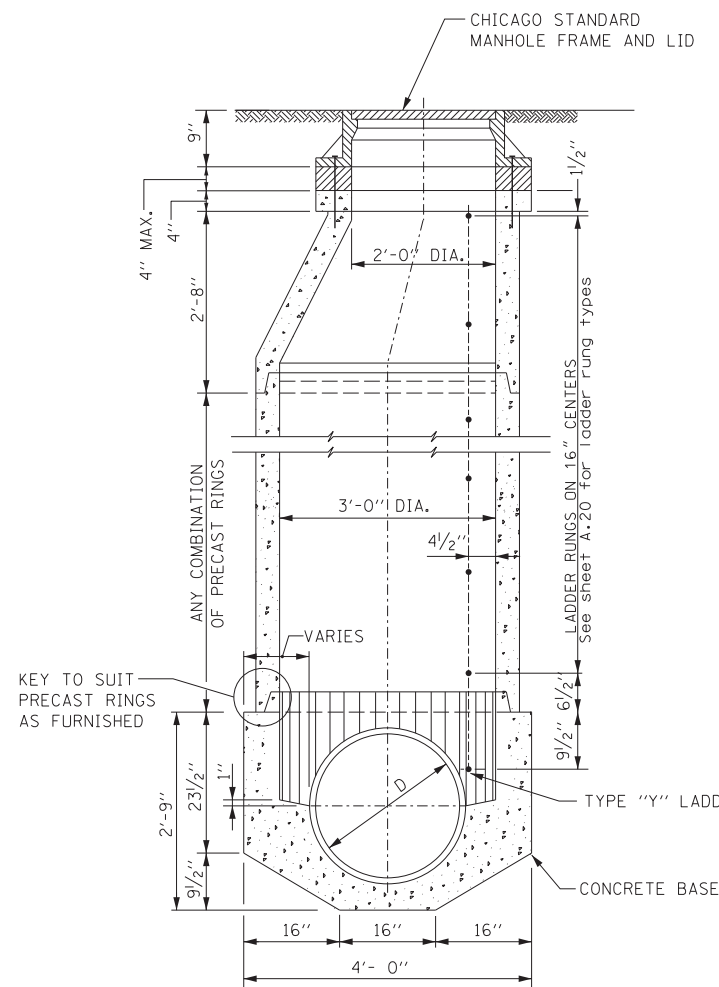
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CONTRACT NO. 60X07				
ILLINOIS FED. AID PROJECT				



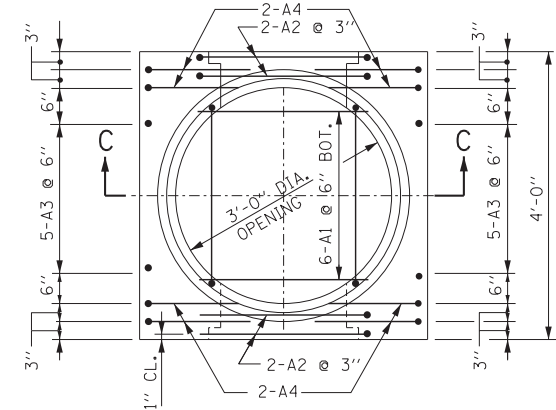
PLAN



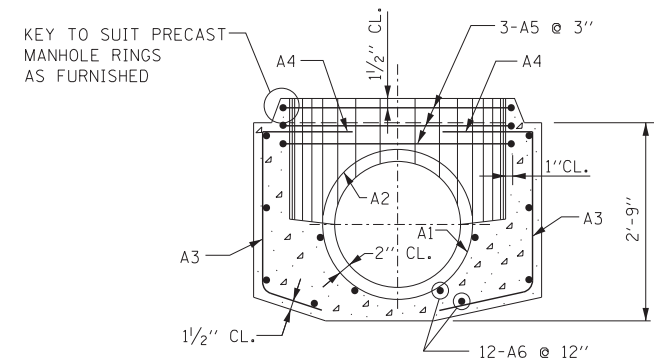
SECTION A-A



SECTION B-B



PLAN
PRECAST BASE



SECTION C-C

NOTE:
6" MINIMUM GRANULAR EMBEDMENT
UNDER ALL PRECAST MANHOLE BASES

STRUCTURE		REINFORCEMENT BAR							BENDING DIMENSIONS												
		MARK	SIZE NO.	TYPE	LENGTH	NO. REOD.	WEIGHT EACH	WEIGHT TOTAL	A	B	C	D	E	F	G	H	J	K	O	R	
BASES FOR TYPE "A" MANHOLES (PRECAST)	21" DIA.	21A1	6	9	3'-1"	6	4.63	28		3'-1"						11 1/4"		2'-1"	12 3/4"		
		21A2	6	T3	8'-8"	4	13.02	52										2'-0"	2'-1 1/2"		
		21A3	5	12	3'-3"	10	3.39	34			22"	17"				14 1/2"		8 3/4"			
		21A4	5	12	4'-6"	8	4.69	38		15"	22"	17"				14 1/2"		8 3/4"			
		21A5	5	T3	11'-11"	3	12.43	37								14 1/2"		20"	3'-3 1/4"		
		21A6	4	STR	3'-8"	12	2.45	30													
			TOTAL					219													
		18" DIA.	18A1	6	9	2'-8 1/2"	6	4.07	24		2'-8 1/2"						9 3/4"		22"	11 1/4"	
	18A2		6	T3	7'-10 1/2"	4	11.83	47										2'-0"	22 1/2"		
	18A3		5	12	3'-3"	10	3.39	34			22"	17"				14 1/2"		8 3/4"			
	18A4		5	12	4'-6"	8	4.69	38		15"	22"	17"				14 1/2"		8 3/4"			
	18A5		5	T3	11'-11"	3	12.43	37								14 1/2"		20"	3'-3 1/4"		
	18A6		4	STR	3'-8"	12	2.45	30													
			TOTAL					202													
		15" DIA.	15A1	6	9	2'-3 1/2"	6	3.44	21		23 1/2"					8 1/4"		19"	9 3/4"		
	15A2		6	T3	7'-1"	4	10.64	42										2'-0"	19 1/2"		
	15A3		5	12	3'-3"	10	3.39	34			22"	17"				14 1/2"		8 3/4"			
	15A4		5	12	4'-6"	8	4.69	38		15"	22"	17"				14 1/2"		8 3/4"			
	15A5		5	T3	11'-11"	3	12.43	37								14 1/2"		20"	3'-3 1/4"		
	15A6		4	STR	3'-8"	12	2.45	30													
			TOTAL					202													
		12" DIA.	12A1	6	9	1'-11"	6	2.88	17		23"					6 3/4"		16"	8 1/4"		
	12A2		6	T3	6'-1"	4	9.14	37										2'-0"	16 1/2"		
	12A3		5	12	3'-3"	10	3.39	34			22"	17"				14 1/2"		8 3/4"			
12A4	5		12	4'-6"	8	4.69	38			22"	17"				14 1/2"		8 3/4"				
12A5	5		T3	11'-11"	3	12.43	37								14 1/2"		20"	3'-3 1/4"			
12A6	4		STR	3'-8"	12	2.45	30														
		TOTAL					193														

STANDARD REVISIONS		PERCENT COMPLETE	DATE	CITY OF CHICAGO		DRAWN: SBR DESIGNED: SBR CHECKED: SBR	A.8	
DATE	DESCRIPTION			DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES				
1/5/15	REVISION	30		TYPE "A" PRECAST MANHOLE FOR SEWERS 21" DIA. AND SMALLER		REVIEWED: SBR	OF	
		60						
		75						
		90						
		100						
		BULLETIN		CONTRACT NO. 60X07				
CHICAGO DEPARTMENT OF WATER MANAGEMENT STANDARD DETAILS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NTS				55	2013-049B	COOK	888	849
SHEET NO. 5 OF 12 SHEETS				ILLINOIS		FED. AID PROJECT		

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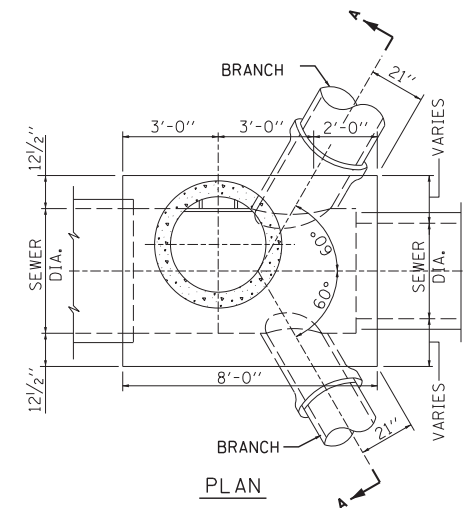
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DRAWN -
CHECKED -
DATE - 5/26/2015

REVISED -
REVISED -
REVISED -
REVISED -

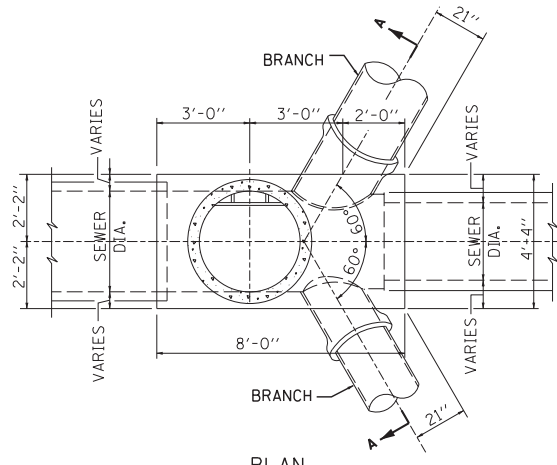
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS

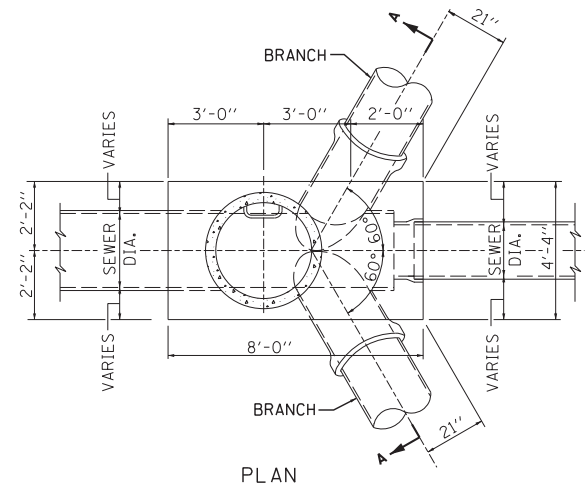
ILLINOIS FED. AID PROJECT



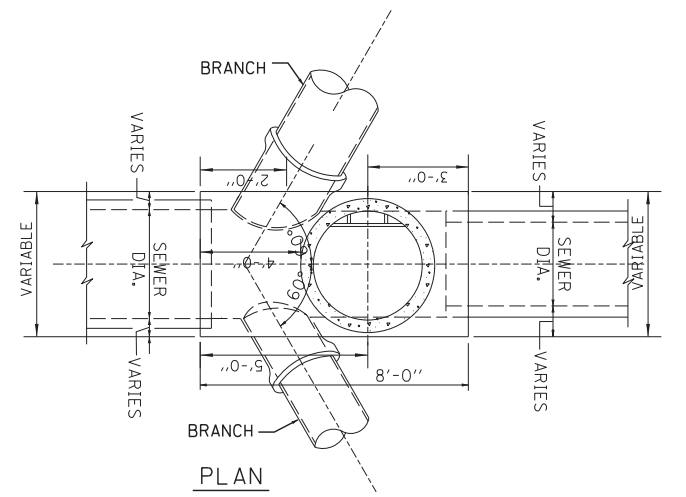
PLAN



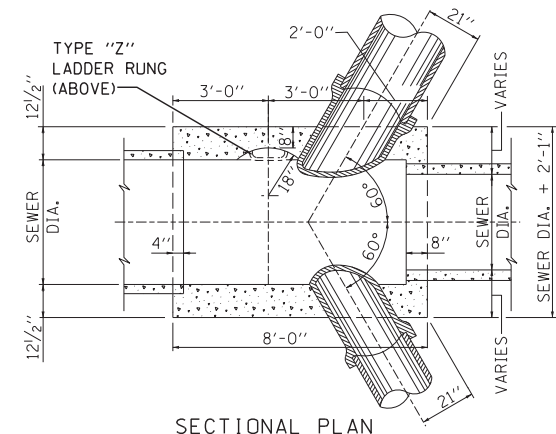
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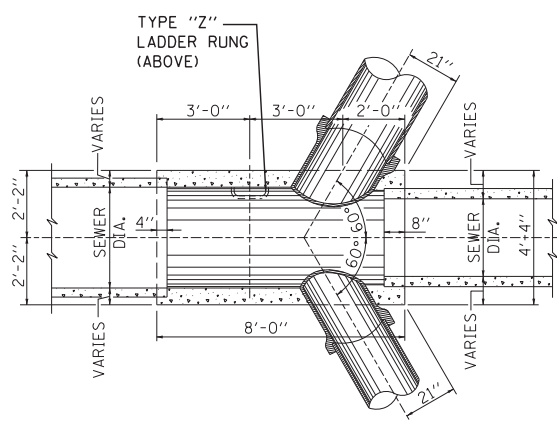
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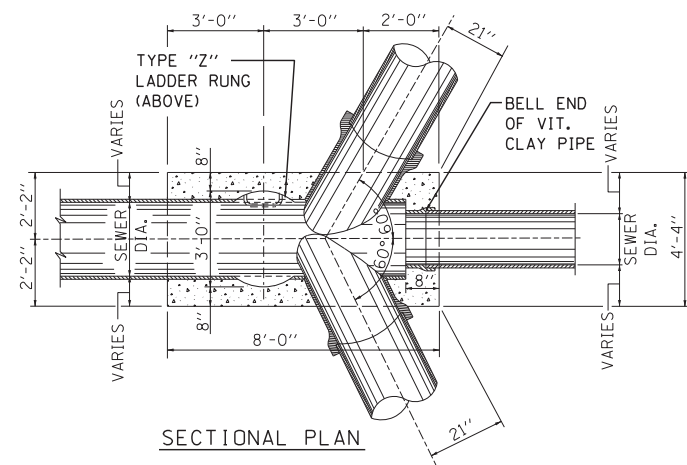
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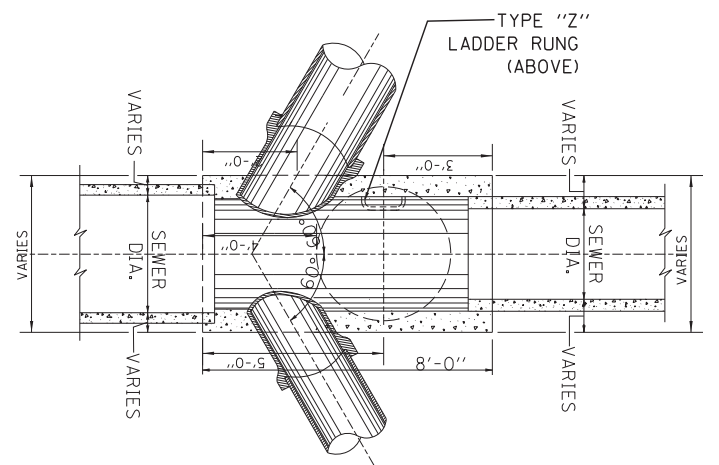
SECTIONAL PLAN



SECTIONAL PLAN



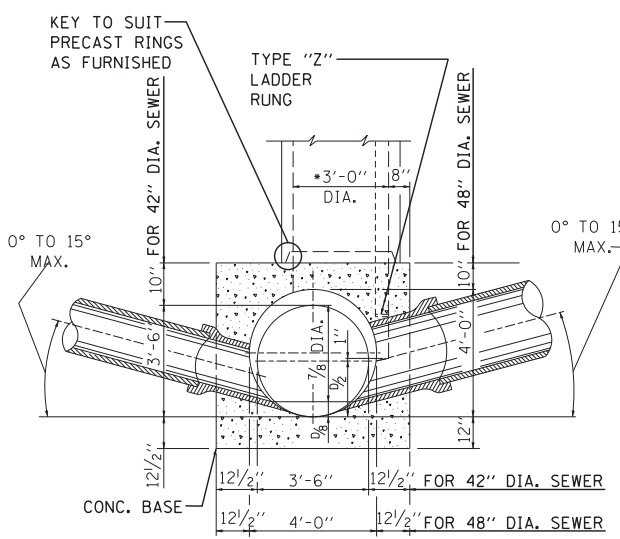
SECTIONAL PLAN



SECTIONAL PLAN

TYPICAL REVERSE TYPE "B" MANHOLE

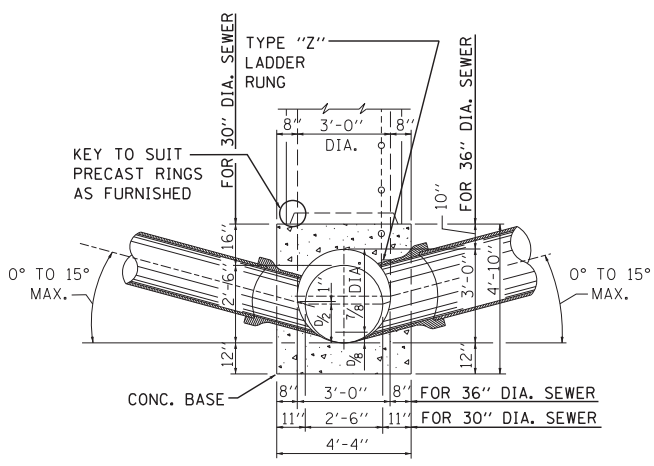
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SECTION A-A

TYPE "B" MANHOLE FOR SEWERS 48" DIA. & 42" DIA.

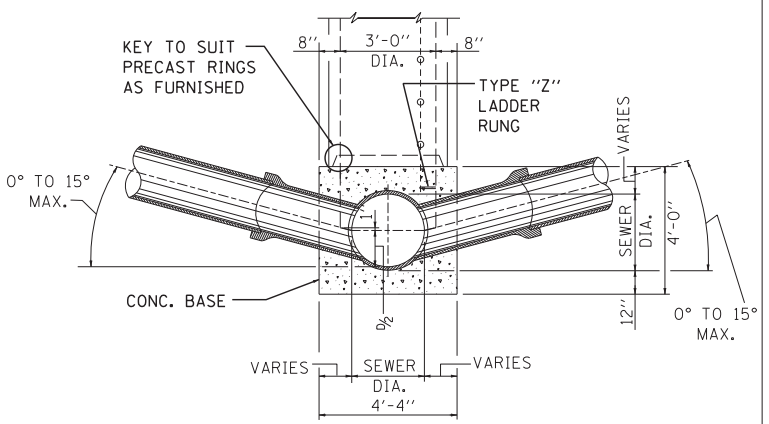
Not To Scale



SECTION A-A

TYPE "B" MANHOLE FOR SEWERS 36" DIA. & 30" DIA.

Not To Scale



SECTION A-A

TYPE "B" MANHOLE FOR SEWERS 24" DIA. & SMALLER

Not To Scale

- NOTES:
1. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF ALL PROPOSED MANHOLE CONFIGURATIONS FOR APPROVAL PRIOR TO SUBMISSION OF MATERIAL ORDERS.
 2. CONNECTION BELLS MAY BE INSTALLED AT MANUFACTURER'S SITE, OR MORTARED IN PLACE IN THE FIELD. SEE SHEET A.11 FOR FURTHER CONFIGURATION DETAILS.
 3. BASES MUST BE PRECAST WITH THE CORRECT NUMBER OF PIPE OPENINGS, CORRESPONDING TO THE REPRESENTATION IN THE PLAN AND PROFILE SHEETS.
 4. PATCHING, BRICKING, OR OTHER MATERIAL METHODS OF CLOSING UNUSED HOLES WILL NOT BE ACCEPTED.
 5. 6" MINIMUM GRANULAR EMBEDMENT UNDER ALL PRECAST MANHOLE BASES

STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
60	
75	
90	
100	
BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DRAWN: SBR	A.9
		CHECKED:	
TYPE "B" MANHOLE		REVIEWED:	OF
			PN

SCALE: NTS		SHEET NO. 6 OF 12 SHEETS		STA.	TO STA.
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F.A.I. RTE. 55	SECTION 2013-049B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 850
CONTRACT NO. 60X07				
ILLINOIS FED. AID PROJECT				

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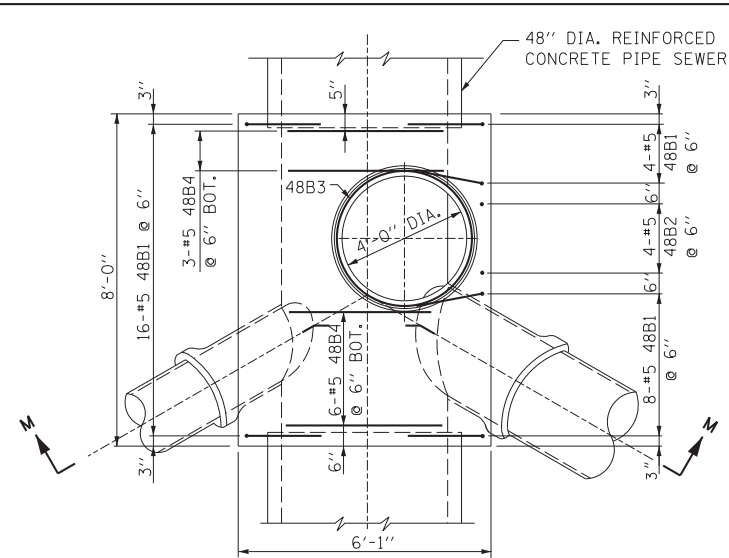
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DESIGNED -
 DRAWN -
 CHECKED -
 DATE - 5/26/2015

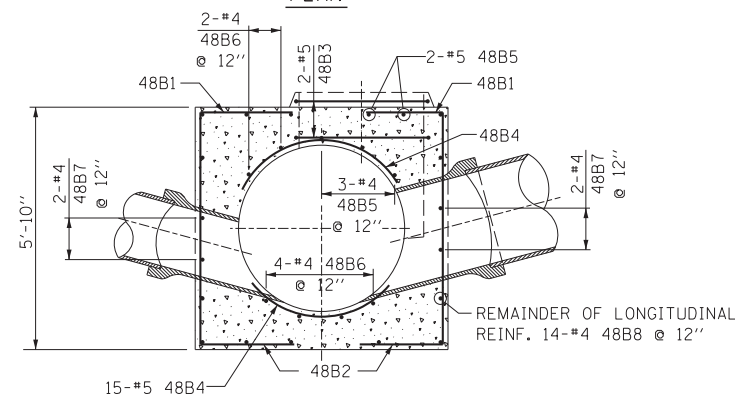
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CHICAGO DEPARTMENT OF WATER MANAGEMENT
 STANDARD DETAILS

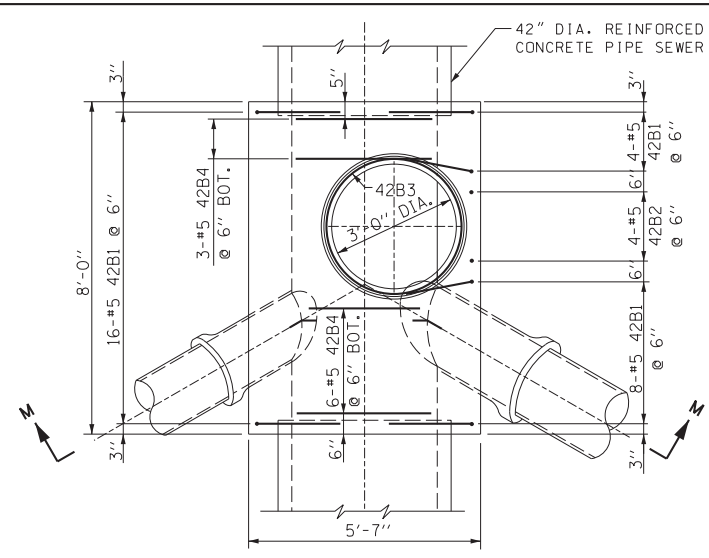


PLAN

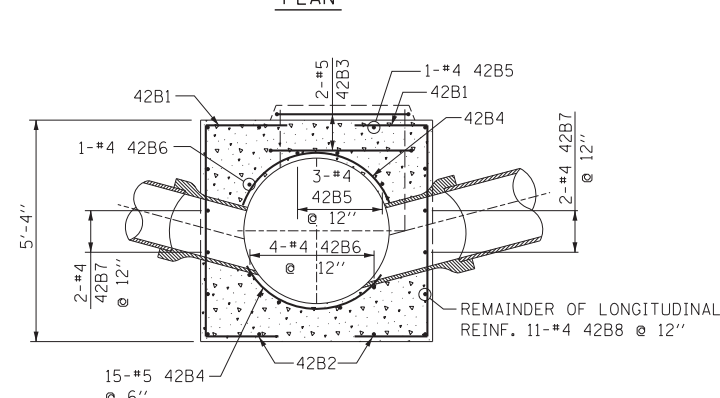


SECTION M-M

48" DIA. SEWER

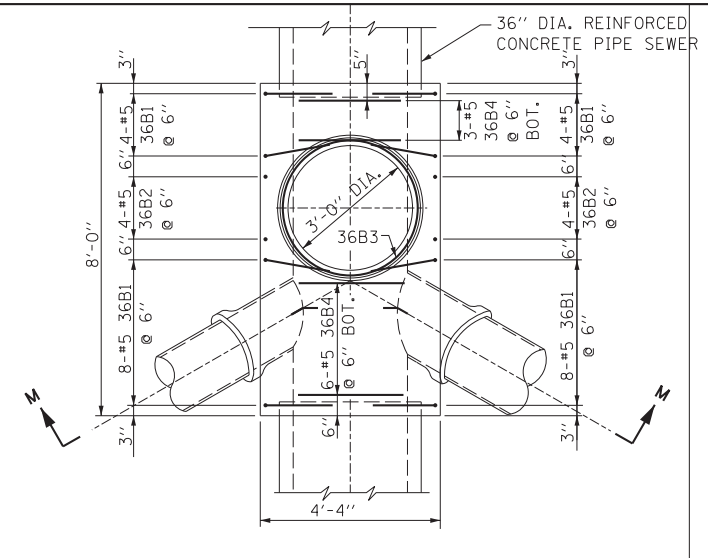


PLAN

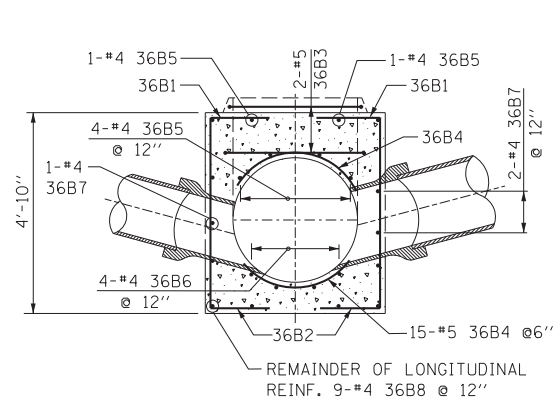


SECTION M-M

42" DIA. SEWER

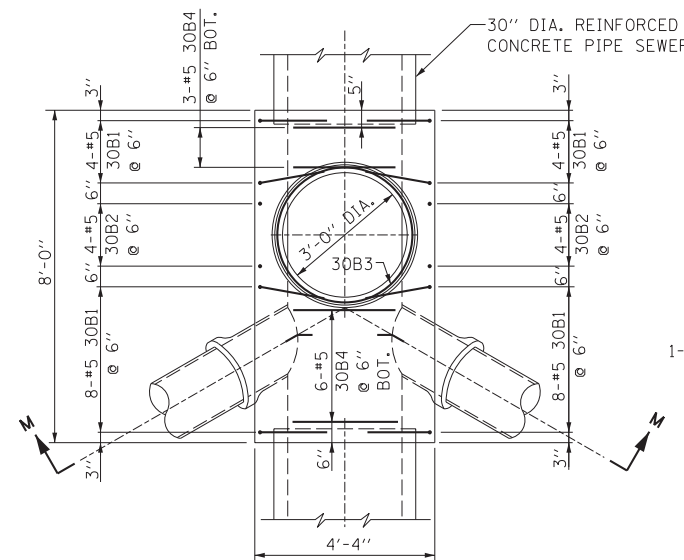


PLAN

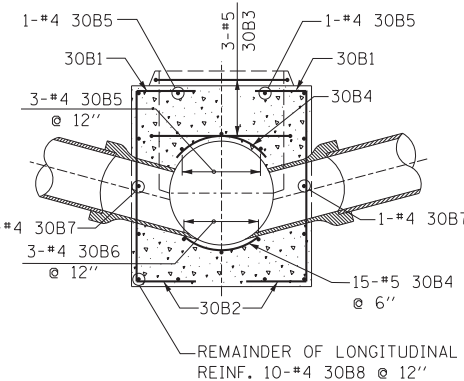


SECTION M-M

36" DIA. SEWER

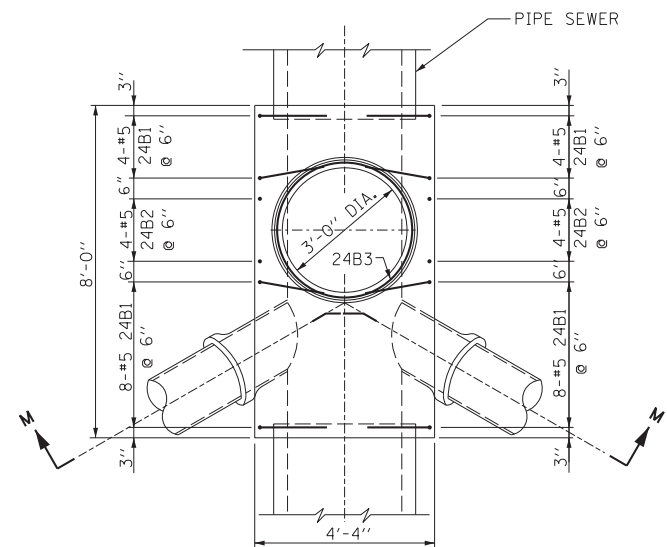


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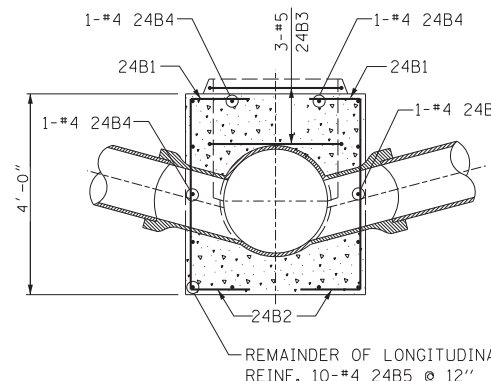


SECTION M-M

30" DIA. SEWER



PLAN



SECTION M-M

24" DIA. SEWERS & SMALLER

- NOTES:
1. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF ALL PROPOSED MANHOLE CONFIGURATIONS FOR APPROVAL PRIOR TO SUBMISSION OF MATERIAL ORDERS.
 2. CONNECTION BELLS MAY BE INSTALLED AT MANUFACTURER'S SITE, OR MORTARED IN PLACE IN THE FIELD. SEE SHEET A.11 FOR FURTHER CONFIGURATION DETAILS.
 3. BASES MUST BE PRECAST WITH THE CORRECT NUMBER OF PIPE OPENINGS, CORRESPONDING TO THE REPRESENTATION IN THE PLAN AND PROFILE SHEETS.
 4. PATCHING, BRICKING, OR OTHER MATERIAL METHODS OF CLOSING UNUSED HOLES WILL NOT BE ACCEPTED.

STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	revision

PERCENT COMPLETE	DATE
30	
60	
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BULLETIN	

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES		DESIGNED: SBR	A.10
		CHECKED:	
REINFORCEMENT FOR TYPE "B" MANHOLE BASES		REVIEWED:	OF
			PN

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	851
CONTRACT NO. 60X07				

FILE NAME = D:\60X07-Sht-cdwm Det-01-07.dgn



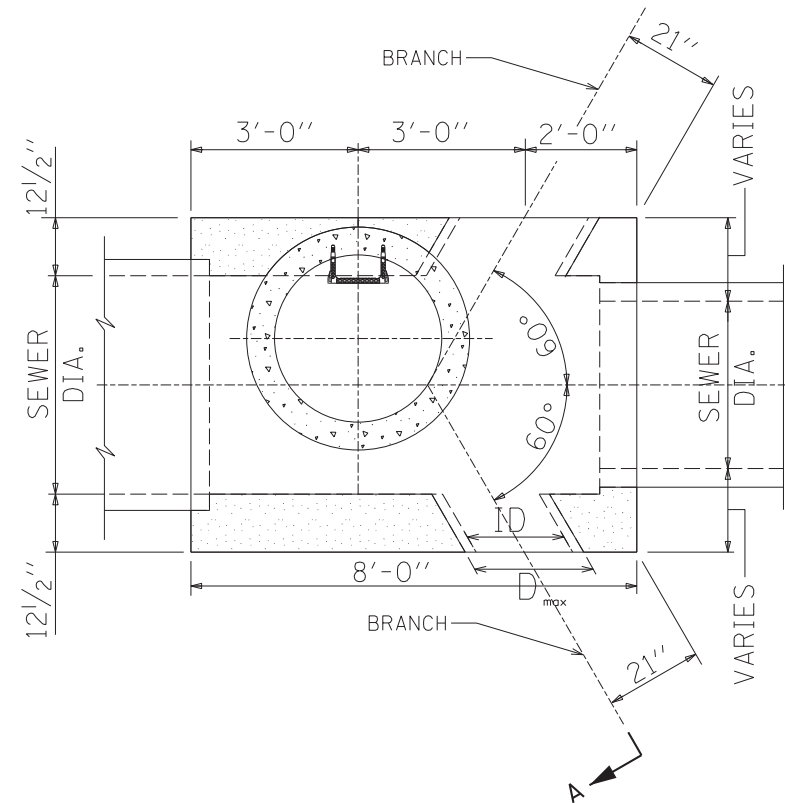
USER NAME = augeungh	DESIGNED -	REVISED -
PLOT SCALE = 1.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 5/22/2015	CHECKED -	REVISED -
	DATE - 5/26/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

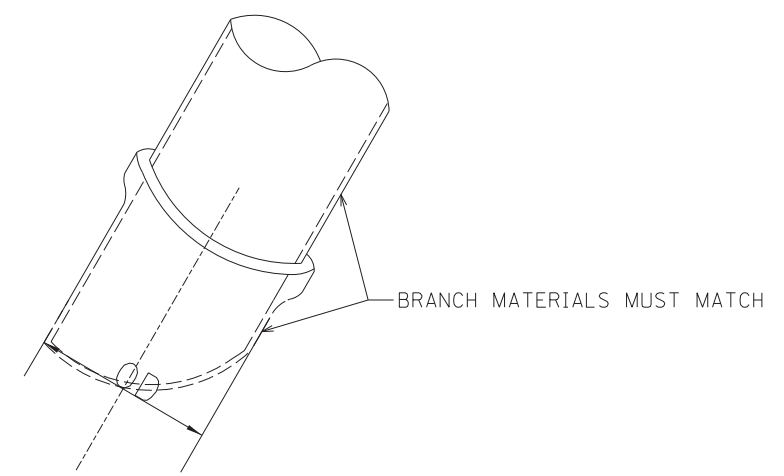
CHICAGO DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS

SCALE: NTS SHEET NO. 7 OF 12 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT



TYPICAL 4 OPENING TYPE B MANHOLE



- NOTES:
1. CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF ALL PROPOSED MANHOLE CONFIGURATIONS FOR APPROVAL PRIOR TO SUBMISSION OF MATERIAL ORDERS.
 2. CONNECTION BELLS MAY BE INSTALLED AT MANUFACTURER'S SITE, OR MORTARED IN PLACE IN THE FIELD.
 3. BASES MUST BE PRECAST WITH THE CORRECT NUMBER OF PIPE OPENINGS, CORRESPONDING TO THE REPRESENTATION IN THE PLAN AND PROFILE SHEETS.
 4. PATCHING, BRICKING, OR OTHER MATERIAL METHODS OF CLOSING UNUSED HOLES WILL NOT BE ACCEPTED.

BRANCH SIZING CHART

ID PIPE (in.)	MATERIAL	OD PIPE (in.)	D _{max} * (in.)
12	VCP	14.36	18.36
15	VCP	17.8	21.8
18	VCP	21.48	25.48
21	VCP	25.54	31.54
8	DIP	9.05	13.05
10	DIP	11.1	15.1
12	DIP	13.2	17.2
14	DIP	15.3	19.3
16	DIP	17.4	21.4
18	DIP	19.5	23.5
20	DIP	21.6	25.6
24	DIP	25.8	29.8
24	RCP III	30	34
27	RCP III	33.5	37.5
30	RCP III	37	41
33	RCP III	40.5	44.5
36	RCP III	44	48
42	RCP III	51	56.5

Notes:

1. If the pipe class is not shown on this table, then D_{max} = OD pipe + 4"
- *2. D_{max} indicates the maximum size of branch opening to be cast or cut into structure.

FILE NAME = D:\60X07-Sht-c\DWG Deton1-08.dgn



USER NAME = ouyeungh	DESIGNED -	REVISED -
PLOT SCALE = 1.0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 5/22/2015	CHECKED -	REVISED -
	DATE - 5/26/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

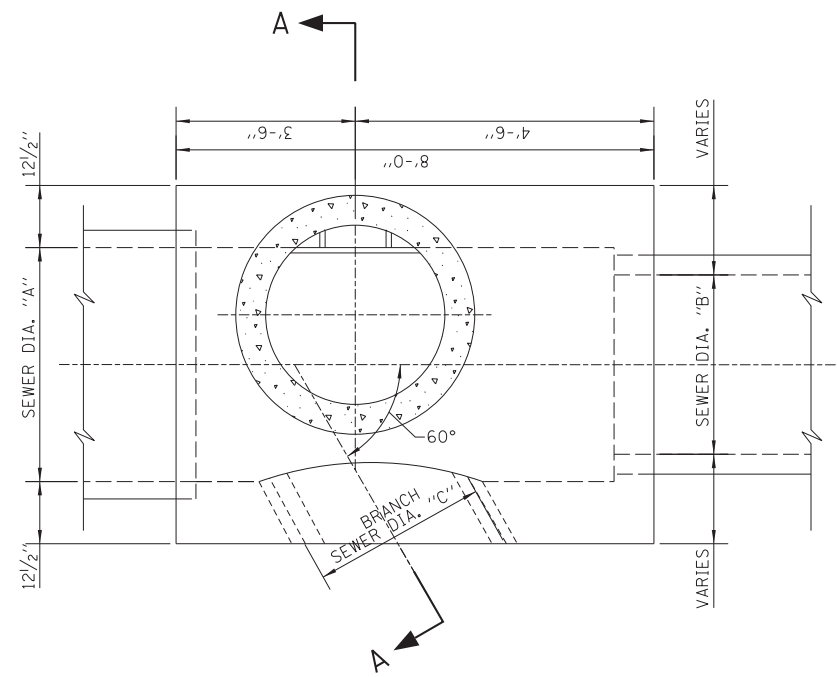
STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	APPROVED PLAN

PERCENT COMPLETE	DATE
30	
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BULLETIN	

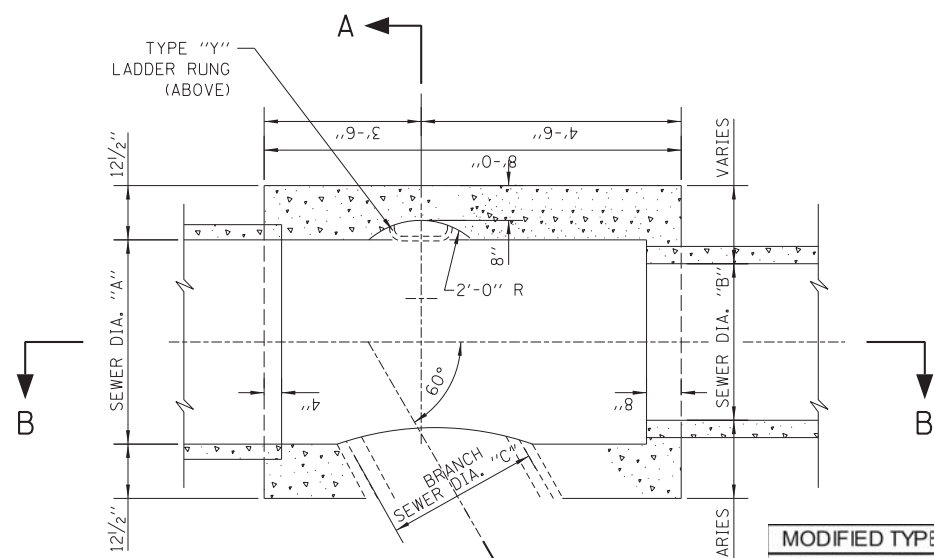
CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES				DRAWN: SBR DESIGNED: CHECKED: REVIEWED:
TYPE "B" MANHOLE CONFIGURATIONS				A.11
PN				OF
PN				

CHICAGO DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS
SCALE: NTS SHEET NO. 8 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	852
CONTRACT NO. 60X07				
ILLINOIS FED. AID PROJECT				

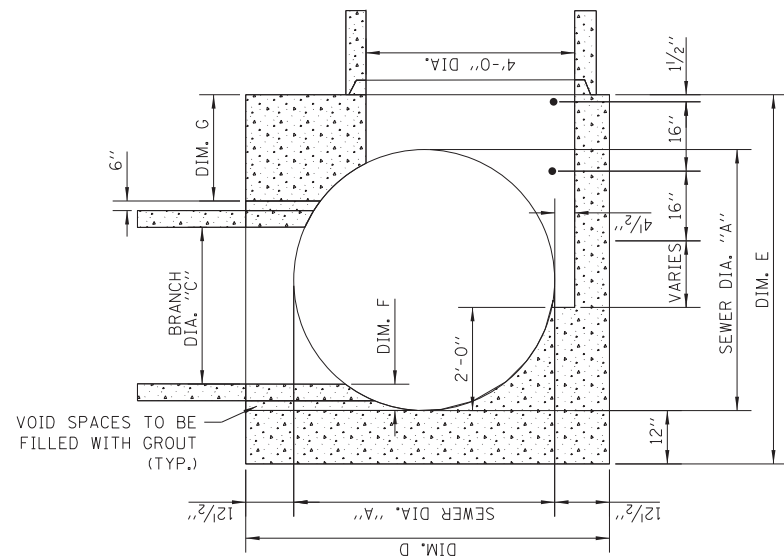


PLAN

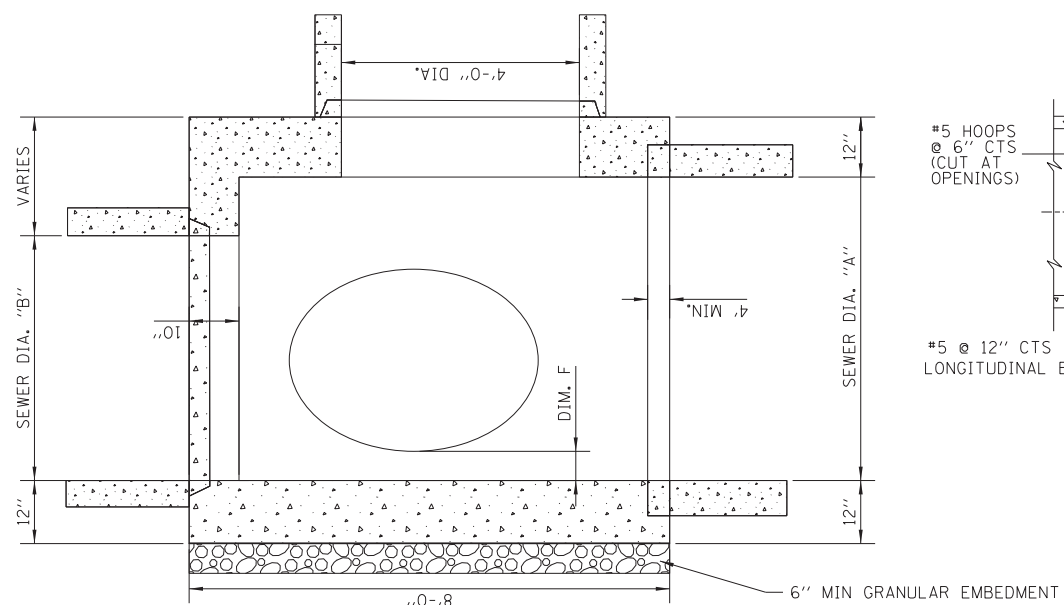


SECTIONAL PLAN

- NOTES:
- CONTRACTOR MUST SUBMIT SHOP DRAWINGS OF ALL PROPOSED MANHOLE CONFIGURATIONS FOR APPROVAL PRIOR TO SUBMISSION OF MATERIAL ORDERS.
 - CONNECTION BELLS MAY BE INSTALLED AT MANUFACTURER'S SITE, OR MORTARED IN PLACE IN THE FIELD. SEE SHEET A.11 FOR FURTHER CONFIGURATION DETAILS.
 - BASES MUST BE PRECAST WITH THE CORRECT NUMBER OF PIPE OPENINGS, CORRESPONDING TO THE REPRESENTATION IN THE PLAN AND PROFILE SHEETS.
 - PATCHING, BRICKING, OR OTHER MATERIAL METHODS OF CLOSING UNUSED HOLES WILL NOT BE ACCEPTED.
 - 6" MINIMUM GRANULAR EMBEDMENT UNDER ALL PRECAST MANHOLE BASES



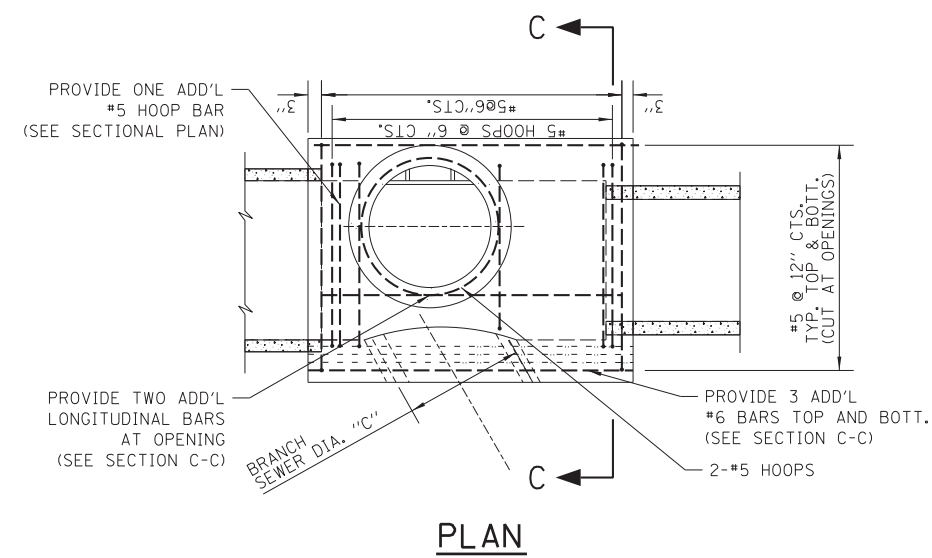
SECTION A-A



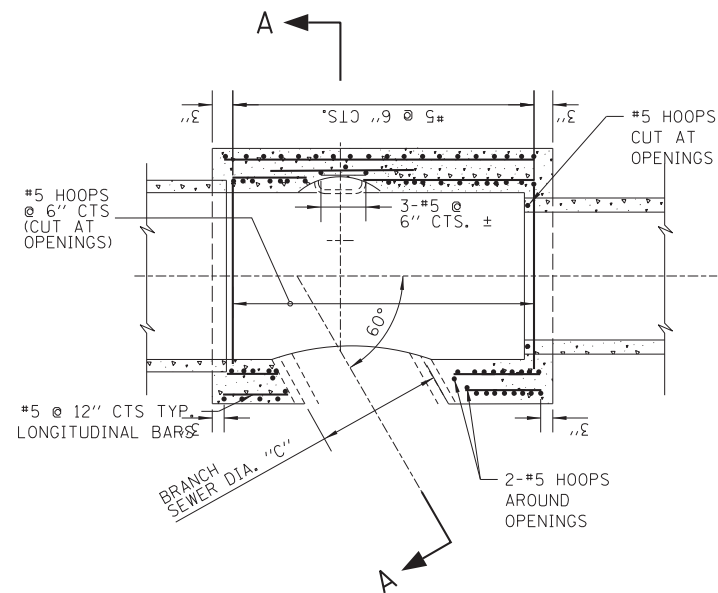
SECTION B-B

MODIFIED TYPE B MANHOLES FOR 42", 36", & 30" BRANCHES						
SEWER SIZE	BRANCH SIZE		DIMENSION			
A	B	C	D	E	F	G
60	60	42	85	84	6	18
60	60	36	85	84	6	24
60	60	30	85	84	6	30
54	54	42	79	78	6	12
54	54	36	79	78	6	18
54	54	30	79	78	6	24
48	48	42	73	78	6	12
48	48	36	73	72	6	12
48	48	30	73	72	6	18
42	42	36	67	72	6	12
42	42	30	67	66	6	12
30	30	30	55	66	6	12

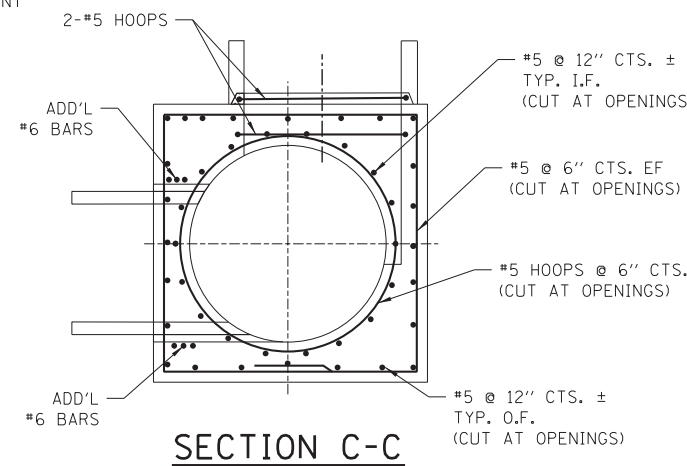
ALL MEASUREMENTS ARE IN INCHES
 NOTE: WHEN B IS SMALLER THAN A, GAP SHALL BE FILLED WITH CONCRETE DURING CASTING.
 SIMILAR REBAR DESIGN SHALL BE USE.
 CONTRACTOR SHALL SUBMIT REBAR DETAILS FOR APPROVAL
 IF BRANCH SEWER IS LESS THAN 36" DIA., ANGLE SHALL BE 45 DEGREES.



PLAN



SECTIONAL PLAN



SECTION C-C

STANDARD REVISIONS	
DATE	DESCRIPTION
1/5/15	REVISED

PERCENT COMPLETE	DATE
30	
60	
75	
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CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES				DRAWN: SBR DESIGNED: CHECKED: GD, GC, SO REVIEWED: A.12
MODIFIED TYPE "B" MANHOLE				OF
				PN

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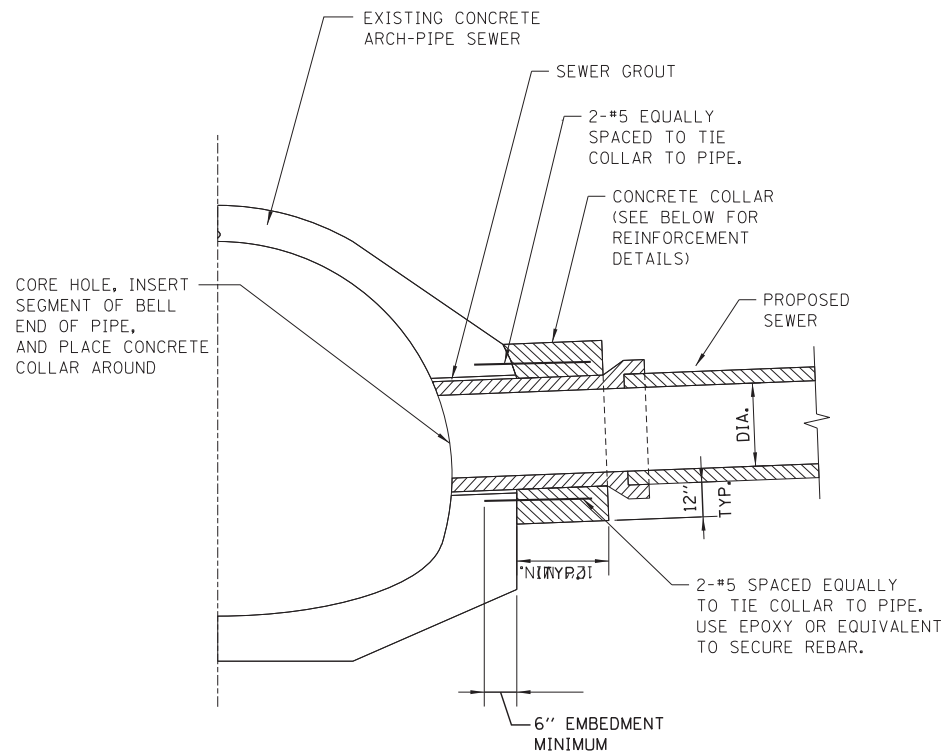
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

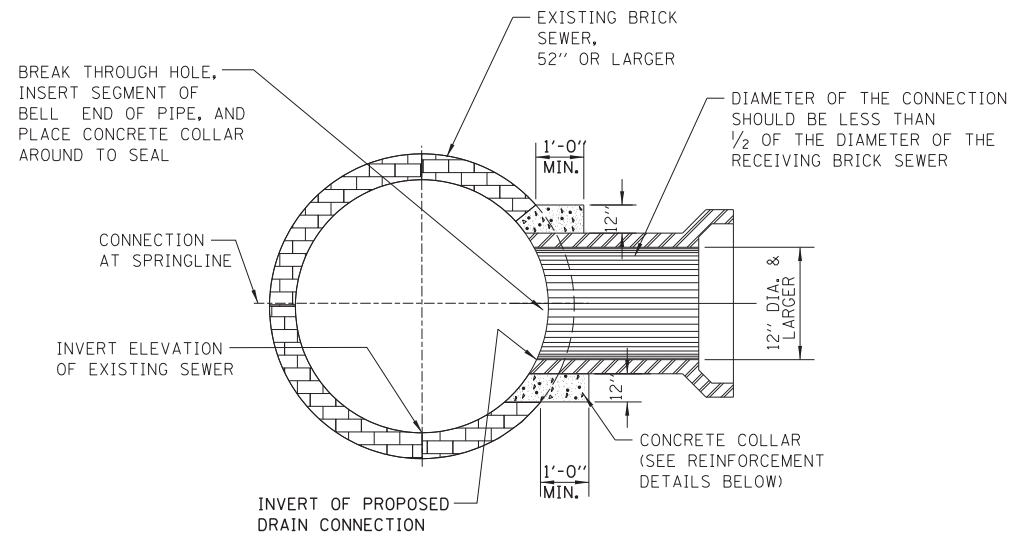
CHICAGO DEPARTMENT OF WATER MANAGEMENT
 STANDARD DETAILS

SCALE: NTS SHEET NO. 9 OF 12 SHEETS STA. TO STA.

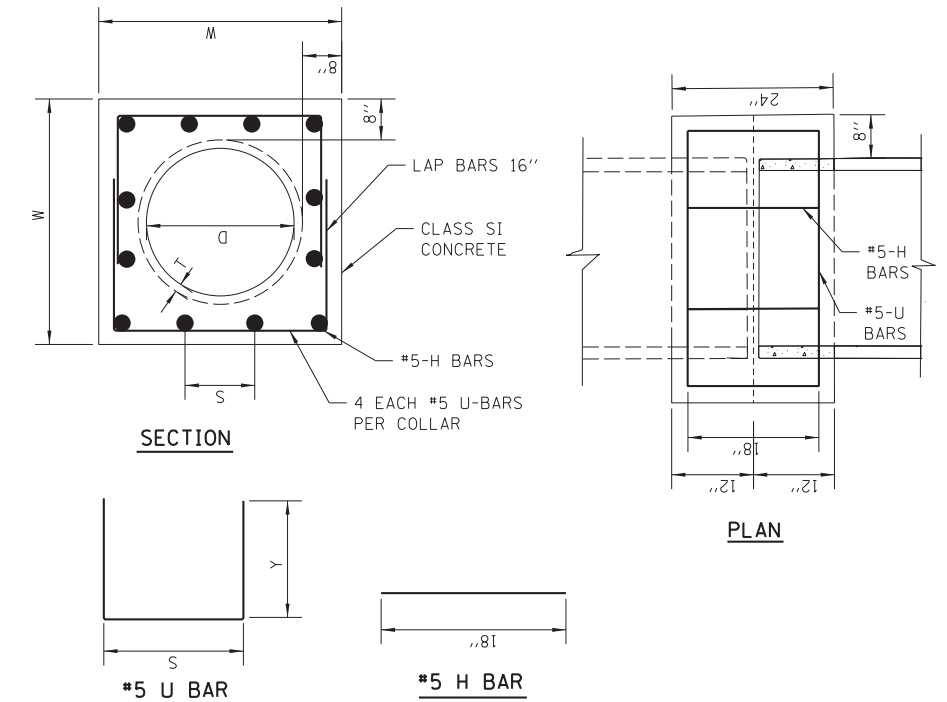
F.A.I. RT. SECTION COUNTY TOTAL SHEETS SHEET NO.
 55 2013-049B COOK 888 853
 CONTRACT NO. 60X07
 ILLINOIS FED. AID PROJECT



EXAMPLE TYPICAL CONNECTION DETAIL
(NOT TO SCALE)



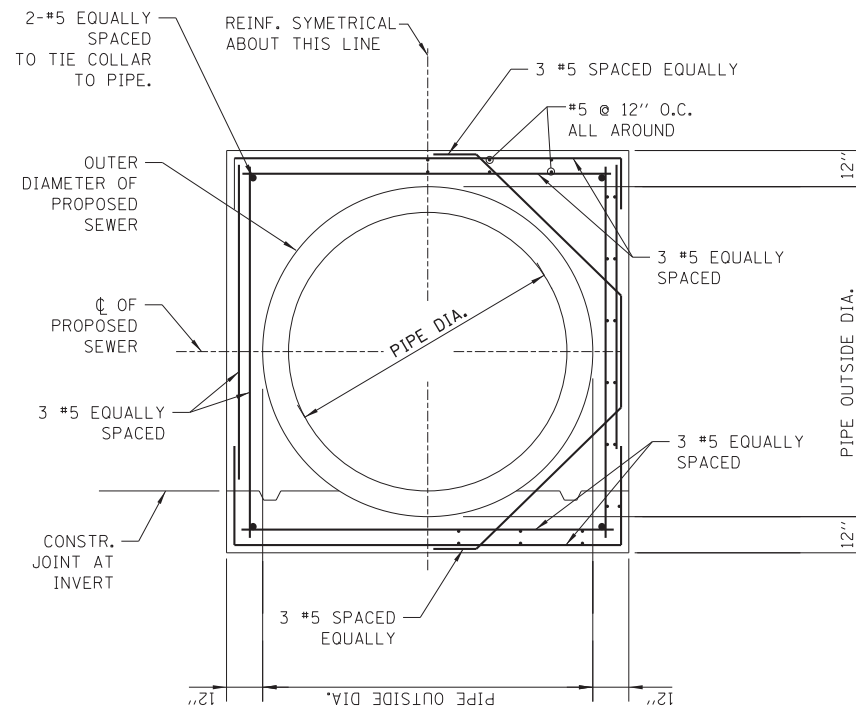
EXAMPLE TYPICAL BRICK SEWER CONNECTION FOR CONNECTING PIPE SIZES GREATER THAN 12" DIA.
(NOT TO SCALE)



PIPE TO PIPE REINFORCED CONCRETE COLLAR DETAIL
SCALE: N.T.S.

CONCRETE COLLAR NOTES:

1. ALL ITEMS AND MATERIALS SHALL CONFORM TO THE LATEST IDOT SSRBC SPECIFICATIONS, UNLESS OTHERWISE NOTED IN SUPPLEMENTAL SPECIFICATIONS FOR THE SPECIFIC PROJECT BEING CONSTRUCTED.
2. ALL CONCRETE SHALL CONFORM TO IDOT SSRBC ARTICLE 1020.04, CLASS SI, WITH A COMPRESSIVE STRENGTH OF 3500 PSI.
3. ALL EPOXY COATED REINFORCEMENT BARS SHALL CONFORM TO IDOT SSRBC SECTION 508, AND ARTICLE 1006.10.
4. UNLESS OTHERWISE SHOWN, THE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS: A.) CONCRETE CAST AGAINST PERMANENTLY EXPOSE EARTH: 3" B.) ALL OTHER REINFORCING BARS: 2"
5. CONCRETE COLLARS SHALL BE USED AT ALL EXISTING/PROPOSED PIPE CONNECTIONS. TRIM EXISTING PIPE END TO PROVIDE FLUSH BUTT JOINT, INSTALL REBAR, AND PLACE CONCRETE COLLAR.
6. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO THE EXISTING SEWER DURING CONSTRUCTION. CONTRACTOR SHALL ADEQUATELY BRACE OR SHORE EXISTING SEWER IF REQUIRED TO MAINTAIN INTEGRITY OF SEWER DURING CONSTRUCTION. SUBMIT DESIGN AND DETAILS, SEALED AND SIGNED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER, SHOWING TEMPORARY BRACING FOR THE EXISTING SEWER DURING CONSTRUCTION FOR REVIEW PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING STRUCTURE IS RESPONSIBILITY OF THE CONTRACTOR.
7. CONTRACTOR SHALL DIVERT ALL FLOW FROM THE EXISTING SEWER PRIOR TO CONSTRUCTION SO THAT THE WORK CAN BE PERFORMED IN THE DRY CONDITION. SEWER MUST BE MAINTAINED IN SERVICE AT ALL TIMES. SUBMIT MEANS OF FLOW DIVERSION FOR REVIEW PRIOR BREAKING INTO EXISTING BRICK SEWER. ALL EXCAVATION SHALL BE KEPT DEWATERED DURING CONSTRUCTION OPERATIONS UNTIL BACKFILL IN PLACE. PROVISIONS SHALL BE MADE TO PREVENT THE BOTTOM OF ALL EXCAVATIONS FROM FREEZING OR FLOODING AT ALL TIMES. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE SHALL BE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE OF THE WORK.



EXAMPLE CONCRETE COLLAR REINFORCEMENT - SECTION
(NOT TO SCALE)

D RCP DIA. (IN)	T PIPE THICKNESS (IN)	W WIDTH (IN)	U BAR				H BAR				CLASS SI CONCRETE (CU YD)	#5 EPOXY REBAR (LBS)
			X (IN)	Y (IN)	QTY (EACH)	LENGTH (FT)	S (IN)	QTY (EACH)	LENGTH (FT)	TOTAL		
12"	2.00	32.0	26.00	21.00	4	22.7	8 1/8	12.0	18.0	0.42	42.5	
15"	2.25	35.5	29.50	22.75	4	25.0	9 3/8	12.0	18.0	0.49	44.8	
18"	2.50	39.0	33.00	24.50	4	27.3	10 1/2	12.0	18.0	0.57	47.2	
21"	2.75	42.5	36.50	26.25	4	29.7	8 3/4	16.0	24.0	0.65	56.0	
24"	3.00	46.0	40.00	28.00	4	32.0	9 5/8	16.0	24.0	0.72	56.4	
27"	3.25	49.5	43.50	29.75	4	34.3	10 1/2	16.0	24.0	0.81	60.8	
30"	3.50	53.0	47.00	31.50	4	36.7	11 3/8	16.0	24.0	0.89	63.3	
33"	3.75	56.5	50.50	33.25	4	39.0	9 4/5	20.0	30.0	0.98	72.0	
36"	4.00	60.0	54.00	35.00	4	41.3	10 1/2	20.0	30.0	1.07	74.4	
42"	4.50	67.0	61.00	38.50	4	46.0	9 7/8	24.0	36.0	1.26	85.5	
48"	5.00	74.0	68.00	42.00	4	50.7	11 1/8	24.0	36.0	1.46	90.4	

*NOTE: OPTION TO USE WITHOUT REBAR

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DESIGNED -
DRAWN -
PLOT SCALE = 1:8000 / 1"
PLOT DATE = 5/22/2015

REVISOR -
REVISION -
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REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARD REVISIONS	
DATE	DESCRIPTION
1/22/14	APPROVED PLAN

PERCENT COMPLETE	DATE
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BULLETIN	

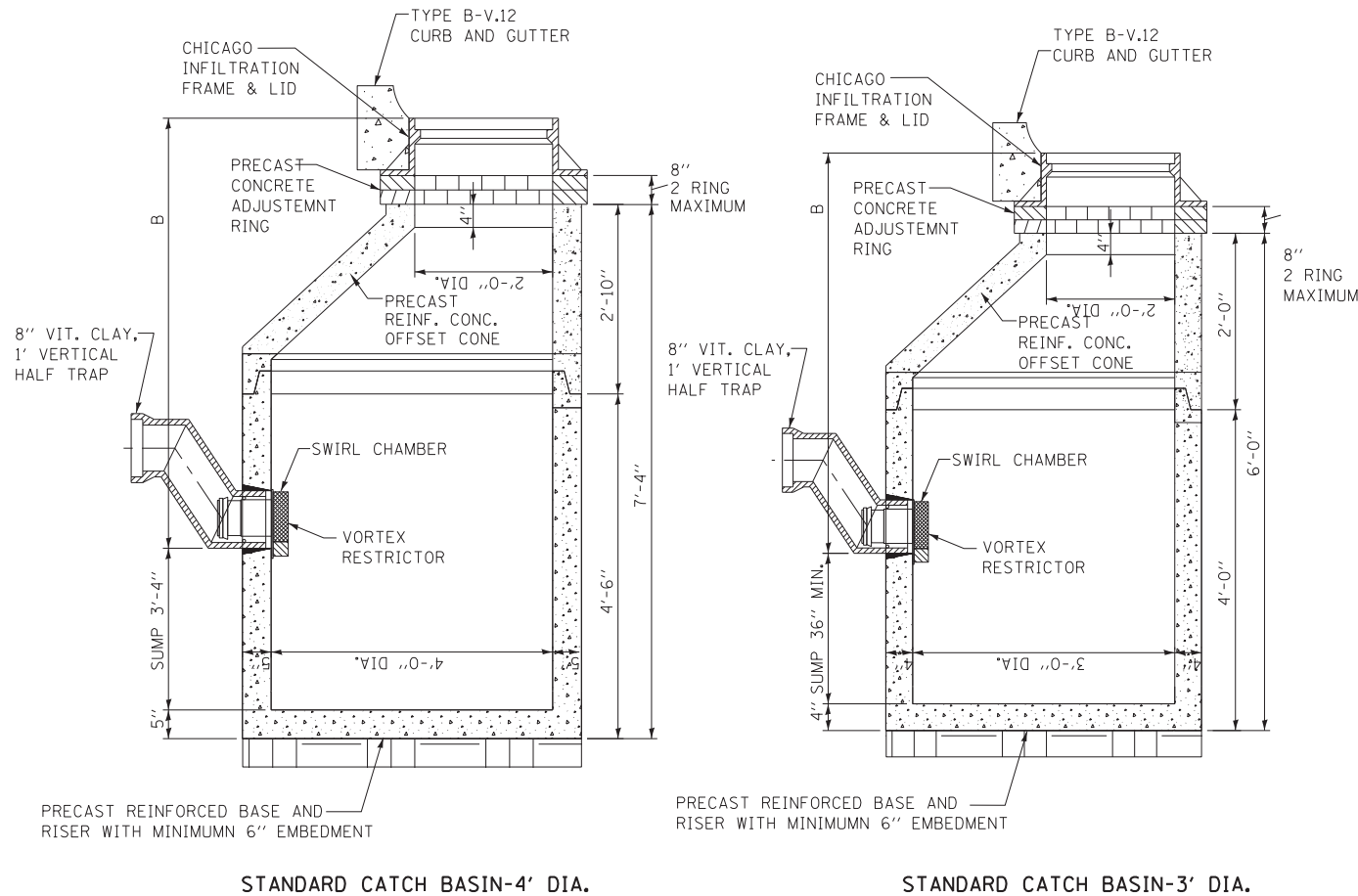
CITY OF CHICAGO
DEPARTMENT OF WATER MANAGEMENT
BUREAU OF ENGINEERING SERVICES
CONCRETE COLLAR /
CONNECTION DETAILS

DRAWN: SBR
DESIGNED: SBR
CHECKED: SBR
REVIEWED: SBR
A.17
OF
PN

CHICAGO DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS
SCALE: NTS SHEET NO. 10 OF 12 SHEETS STA. TO STA.

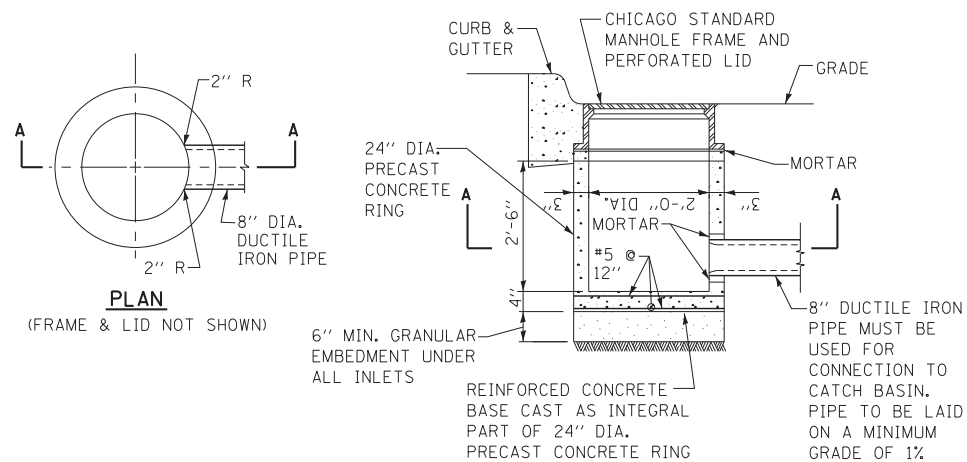
F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
55 2013-049B COOK 888 854
CONTRACT NO. 60X07
ILLINOIS FED. AID PROJECT

STANDARD DRAINAGE STRUCTURES FOR PUBLIC STREETS



STANDARD CATCH BASIN-4' DIA.

STANDARD CATCH BASIN-3' DIA.



STANDARD INLET-2' DIA.

NOTE:
INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF DWM SEWER ENGINEER OR FIELD INSPECTOR.

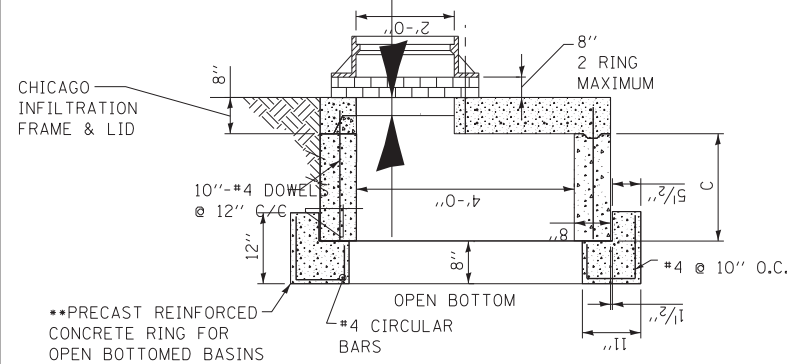
FOR TRENCH BACKFILL, USE FA-6 SAND, CRUSHED CONCRETE SAND, OR STONE SAND.

FOR GRANULAR EMBEDMENT, USE CA-11, CRUSHED GRAVEL, CRUSHED STONE, OR CRUSHED CONCRETE.

NOTES:

- FOR ANY DRAIN TILE CONNECTION, THE WATER TABLE MUST BE AT LEAST 3.5 FEET BELOW ELEVATION A.
- PVC UNDERDRAINS MUST BE 4" MINIMUM DIAMETER, (6" RECOMMENDED) AND MUST BE WRAPPED IN GEOTECH FABRIC.

STANDARD DRAINAGE STRUCTURES FOR PUBLIC ALLEYS

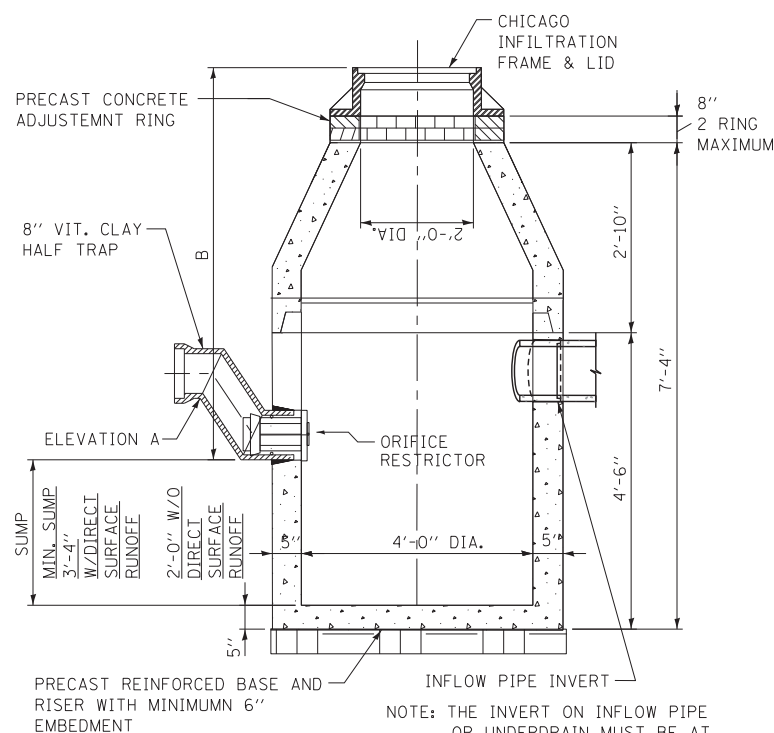


GREEN ALLEY OPEN BOTTOM CATCH BASIN

TO BE USED IF STANDARD CONE WITH REQUIRED SUMP DEPTH INSTALLATION IS IMPOSSIBLE.

••IF FLAT TOP SLAB CATCH BASIN IS USED IN AN OPEN BOTTOM APPLICATION, THE FOLLOWING CRITERIA MUST BE FOLLOWED:

- "C" MUST BE A MINIMUM OF 3 FEET.
- PROVIDE A MINIMUM AGGREGATE BASE OF 1.0 FEET BELOW PRECAST REINFORCED CONCRETE RING.
- GEOTECH FABRIC MUST BE PLACED ON SIDES AND BOTTOM OF AGGREGATE SURROUNDING BASIN.
- AGGREGATE BASE MUST PROVIDE ADEQUATE STORMWATER STORAGE CAPACITY PER THE APPROVED/PERMITTED PLANS.



CATCH BASIN-ORIFICE RESTRICTOR

N.T.S.

STANDARD REVISIONS	
DATE	DESCRIPTION
1/22/14	APPROVED

PERCENT COMPLETE	DATE
30	
60	
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BULLETIN	

CITY OF CHICAGO				DESIGNED: SBR	A.18
DEPARTMENT OF WATER MANAGEMENT				CHECKED:	
BUREAU OF ENGINEERING SERVICES				REVIEWED:	
DRAINAGE STRUCTURE DETAILS				OF	
				PN	

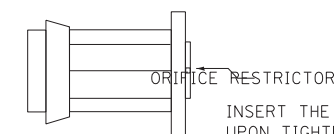
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CHICAGO DEPARTMENT OF WATER MANAGEMENT
STANDARD DETAILS**

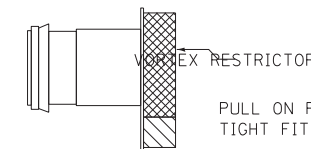
SCALE: NTS SHEET NO. 11 OF 12 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	855
CONTRACT NO. 60X07				
ILLINOIS FED. AID PROJECT				

DRAINAGE STRUCTURES RESTRICTORS



INSERT THE RESTRICTOR INTO THE HALF-TRAP. UPON TIGHTENING OF THE CENTER NUT ON THE FACE OF THE RESTRICTOR, THE RUBBER O-RINGS WILL EXPAND INSIDE THE HALF TRAP, PROVIDING A WATER-TIGHT SEAL. PULL ON RESTRICTOR TO VERIFY THAT A TIGHT FIT IS MADE.



PULL ON RESTRICTOR TO VERIFY THAT A TIGHT FIT IS MADE.

INSERT THE RESTRICTOR WITH THE OPENING DOWN. UPON TIGHTENING OF THE 2 BOLTS ON THE FACE OF THE RESTRICTOR, THE RUBBER O-RINGS WILL PROVIDE A WATER-TIGHT SEAL.

GENERAL NOTES:

- CATCH BASIN TO CATCH BASIN CONNECTIONS ARE ALLOWED IN PRIVATE SITES & ALLEYS. ONLY THE DOWNSTREAM CATCH BASIN IS REQUIRED TO HAVE A HALF-TRAP.
- IF B < 4 FEET, THEN USE A DUCTILE IRON PIPE HALF TRAP AND FLAT TOP SLAB CATCH BASIN AS NECESSARY.
- INLETS AND 3' DIAMETER CATCH BASINS ARE TO BE USED ONLY WITH PRIOR APPROVAL OF DWM FIELD INSPECTOR.

RESTRICTOR NOTES:

THE DWM'S RAIN BLOCKER RESTRICTOR PROGRAM MUST BE MAINTAINED WITH ANY ROADWAY IMPROVEMENT.

THE DESIGN OF ANY ROADWAY IMPROVEMENT MUST CONSIDER LIMITING THE NUMBER OF CATCH BASINS TO THE EXTENT PRACTICAL. THE NUMBER OF EXISTING STRUCTURES SHOULD NOT BE INCREASED.

THE RESTRICTORS CAN BE OBTAINED FROM DWM CENTRAL DISTRICT AT 3901 S. ASHLAND AVE. THE CONTRACTOR SHOULD ARRANGE FOR PICK UP BY CONTACTING 312-747-1177 (7AM TO 3PM, M-F)

FLOW RESTRICTORS MUST BE INSTALLED IN ALL CATCH BASINS OUTSIDE OF THE CENTRAL BUSINESS DISTRICT. RESTRICTORS MUST NOT BE INSTALLED IN CATCH BASINS IN CLOSE PROXIMITY TO VIADUCT AREAS, BUS STOPS, OR EMERGENCY ENTRANCES. THE DWM MUST APPROVE THE NON-INSTALLATION OR REMOVAL OF ANY RESTRICTOR. REQUIREMENTS FOR RESTRICTOR INSTALLATION ARE AS FOLLOWS:

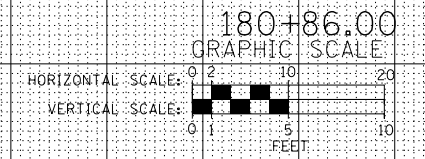
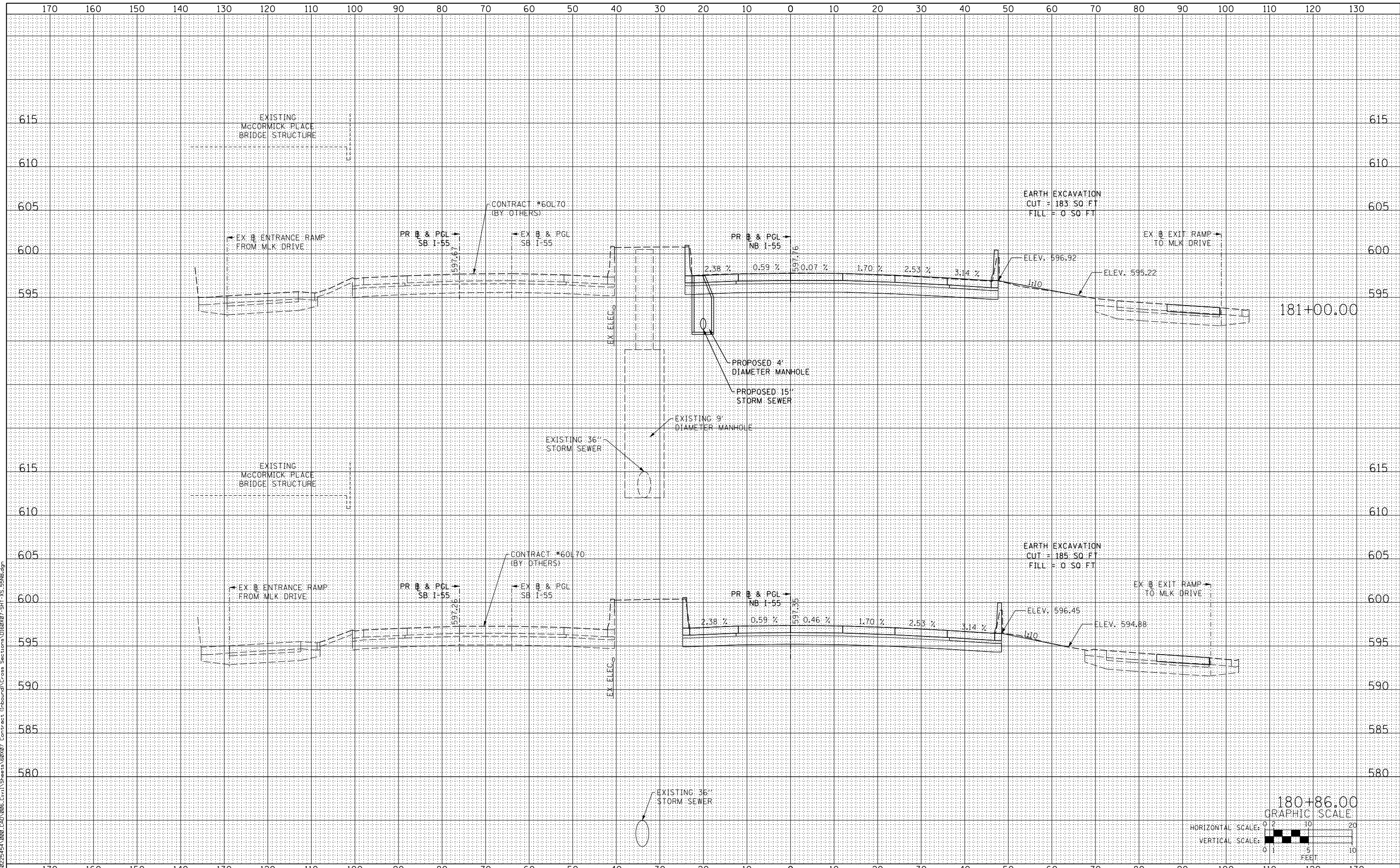
- ARTERIAL STREETS: 3-INCH ORIFICE RESTRICTOR
- BUS ROUTES: 3-INCH ORIFICE RESTRICTOR
- RESIDENTIAL STREETS: 3-INCH VORTEX RESTRICTOR
- ALLEYS: 3-INCH ORIFICE RESTRICTOR IN THE LAST CB.
- CLOSED LIDS ARE REQUIRED ON ALL MANHOLES EXCEPT AT INTERSECTIONS WHERE A PERFORATED LID SHALL BE USED.

USER NAME = augeungh	DESIGNED -	REVISED -
PLOT SCALE = 1:8000 / 1"	DRAWN -	REVISED -
PLOT DATE = 5/22/2015	CHECKED -	REVISED -
	DATE - 5/26/2015	REVISED -

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TEMPLATE	
AREAS CHECKED	
NO.	
FINISH SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

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

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USER NAME = ayeungh
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 DRAWN - WBS
 CHECKED - MJJ
 DATE - 5/26/2015

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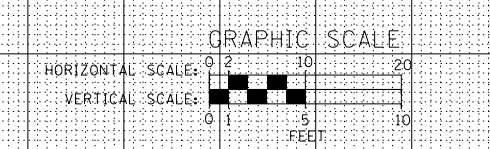
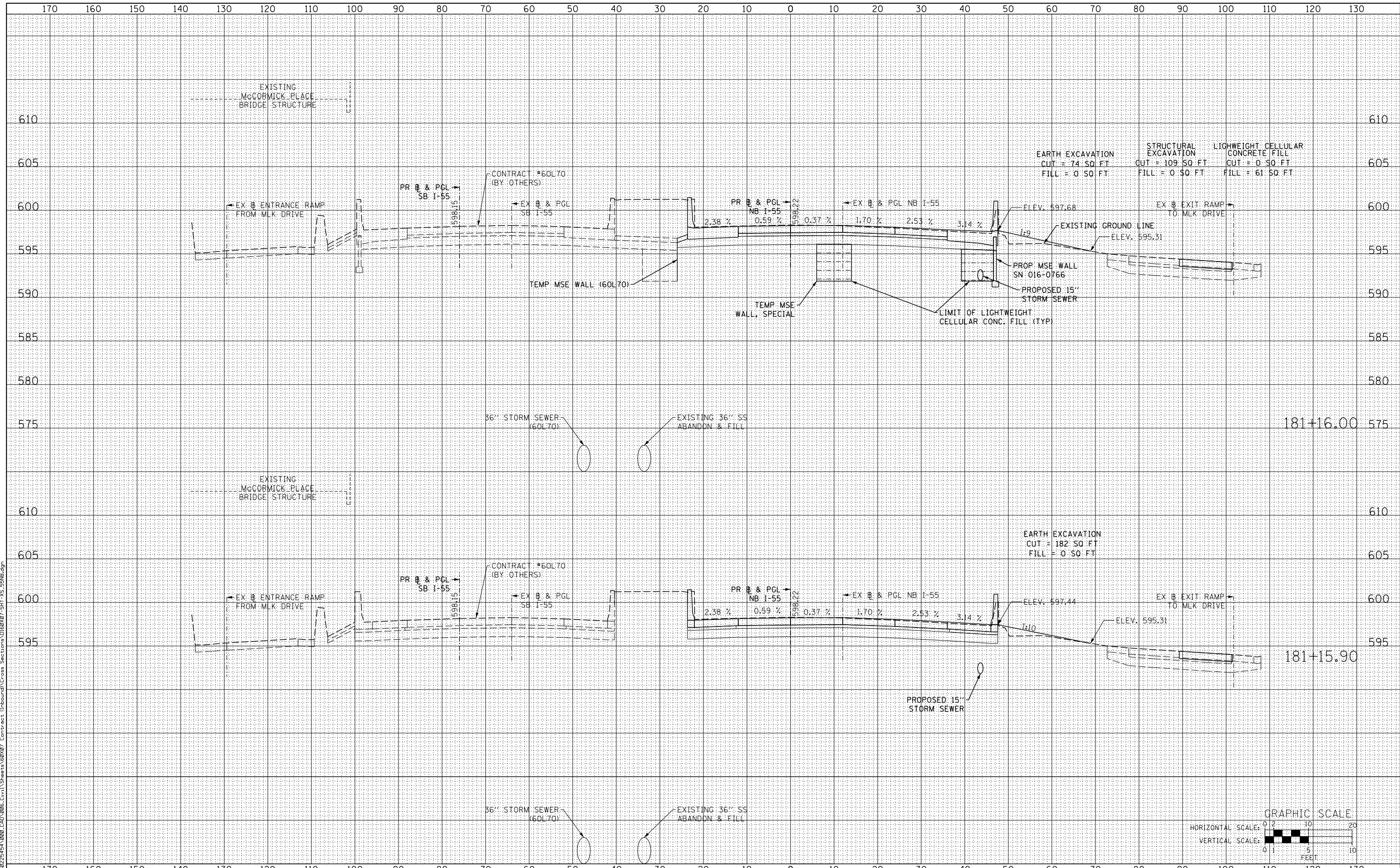
SCALE: 1:5V, 1:10H SHEET NO. 1 OF 8 SHEETS STA. 180+86.00 TO STA. 181+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	857
CONTRACT NO. 60X07			ILLINOIS FED. AID PROJECT	

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SCALE: 1:5V, 1:10H SHEET NO. 2 OF 8 SHEETS STA. 181+5.90 TO STA. 181+6.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	858

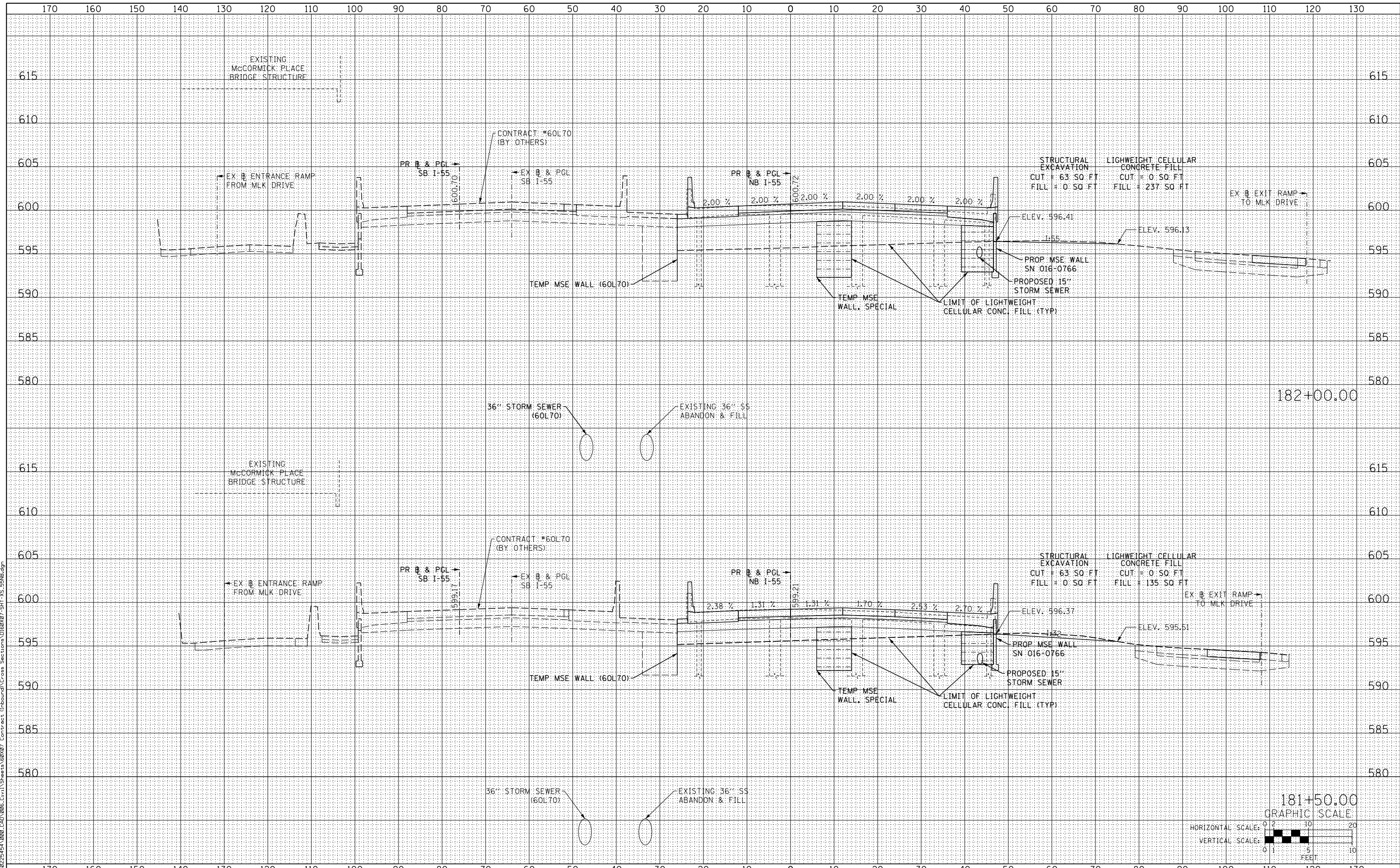
CONTRACT NO. 60X07

ILLINOIS FED. AID PROJECT

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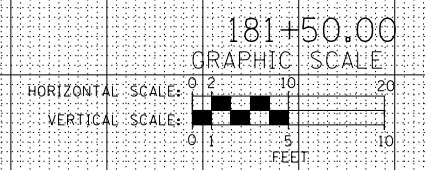
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SCALE: 1:5V, 1:10H SHEET NO. 3 OF 8 SHEETS STA. 181+50.00 TO STA. 182+00.00

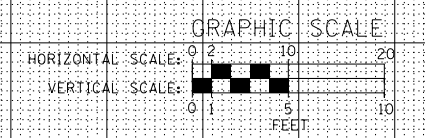
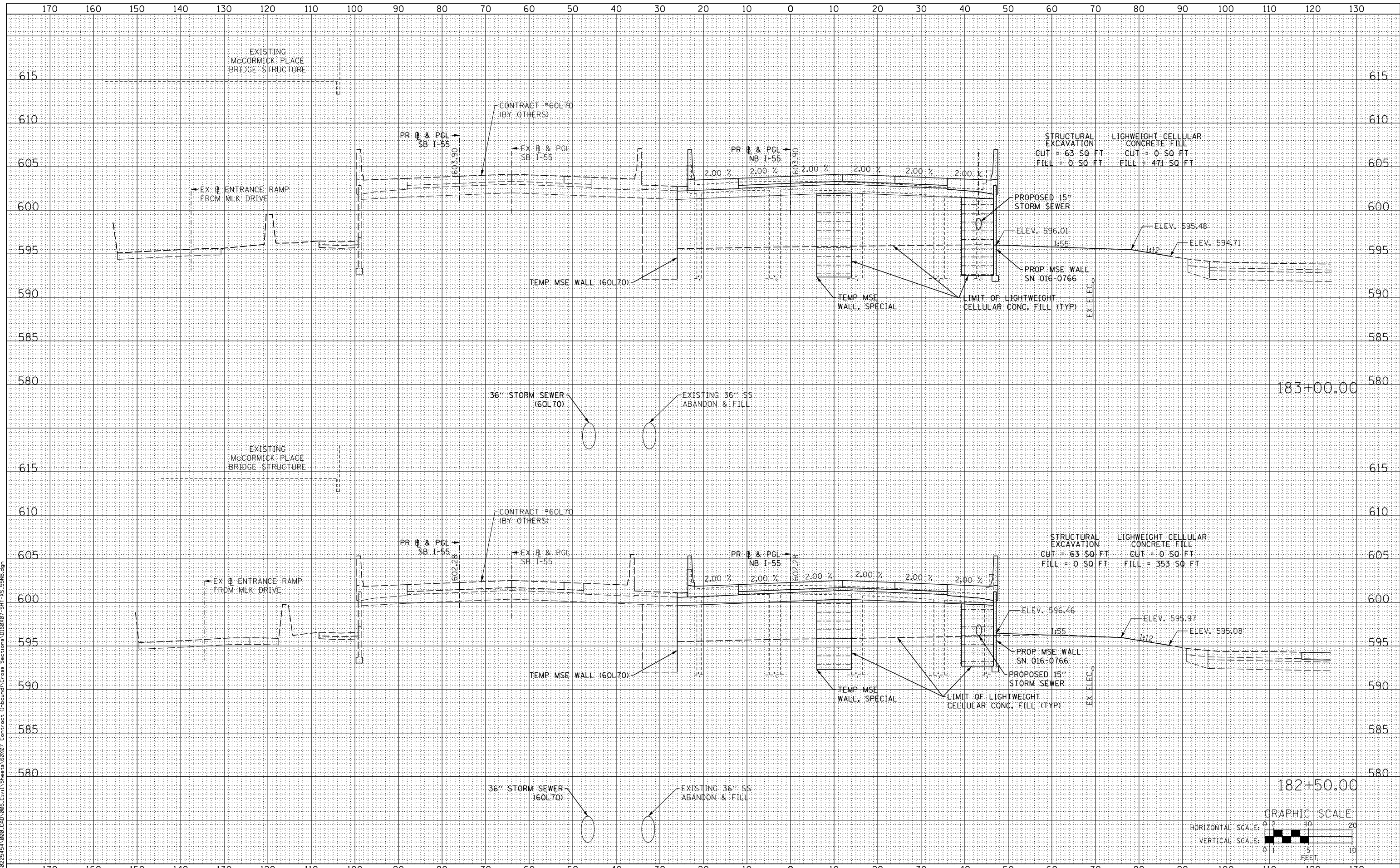
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	859
			CONTRACT NO. 60X07	
ILLINOIS FED. AID PROJECT				



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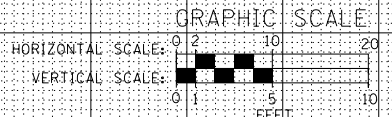
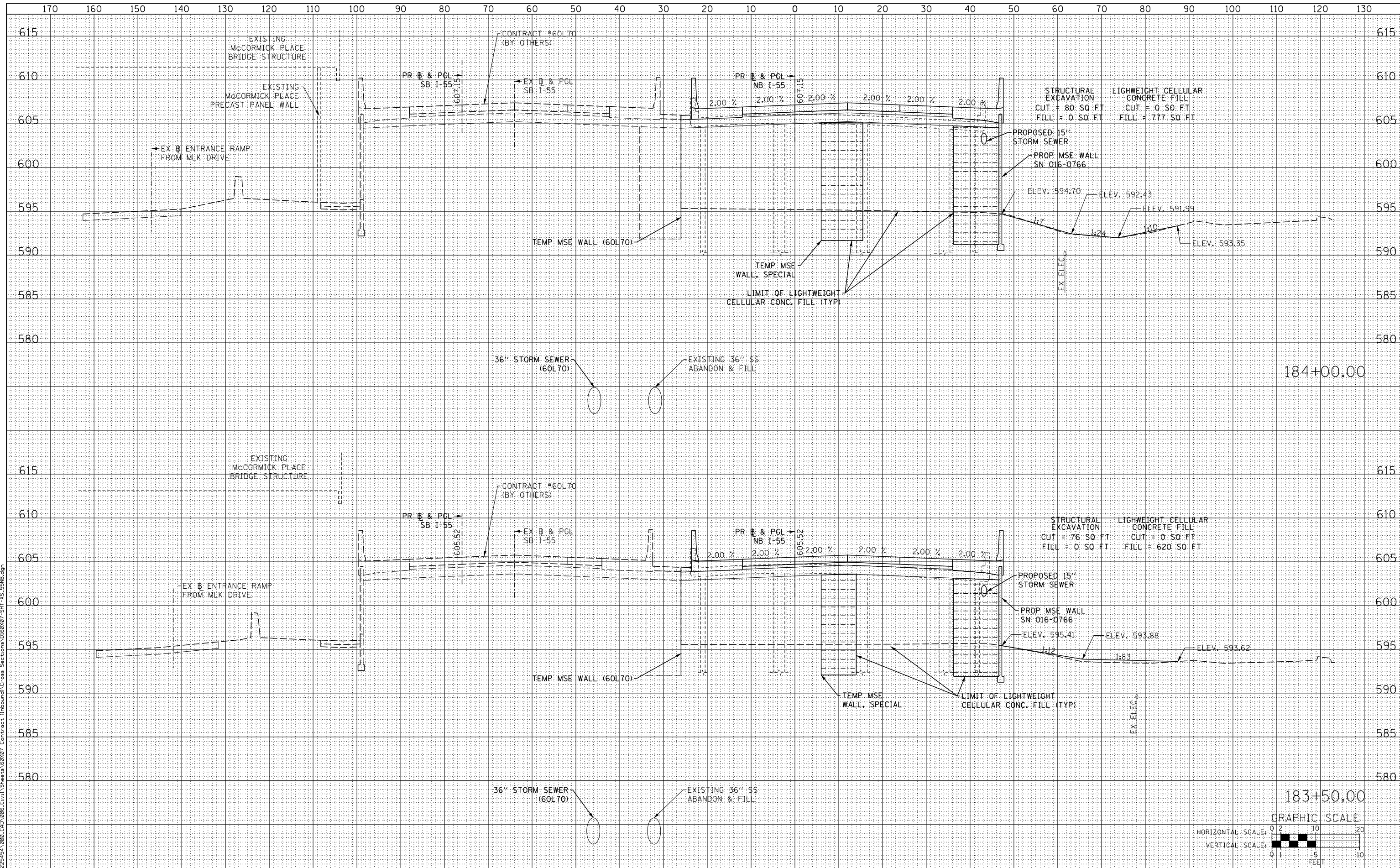
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SCALE: 1:5V,1:10H SHEET NO. 4 OF 8 SHEETS STA. 182+50.00 TO STA. 183+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	860
				CONTRACT NO. 60X07
ILLINOIS FED. AID PROJECT				

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SCALE: 1:5V, 1:10H SHEET NO. 5 OF 8 SHEETS STA. 183+50.00 TO STA. 184+00.00

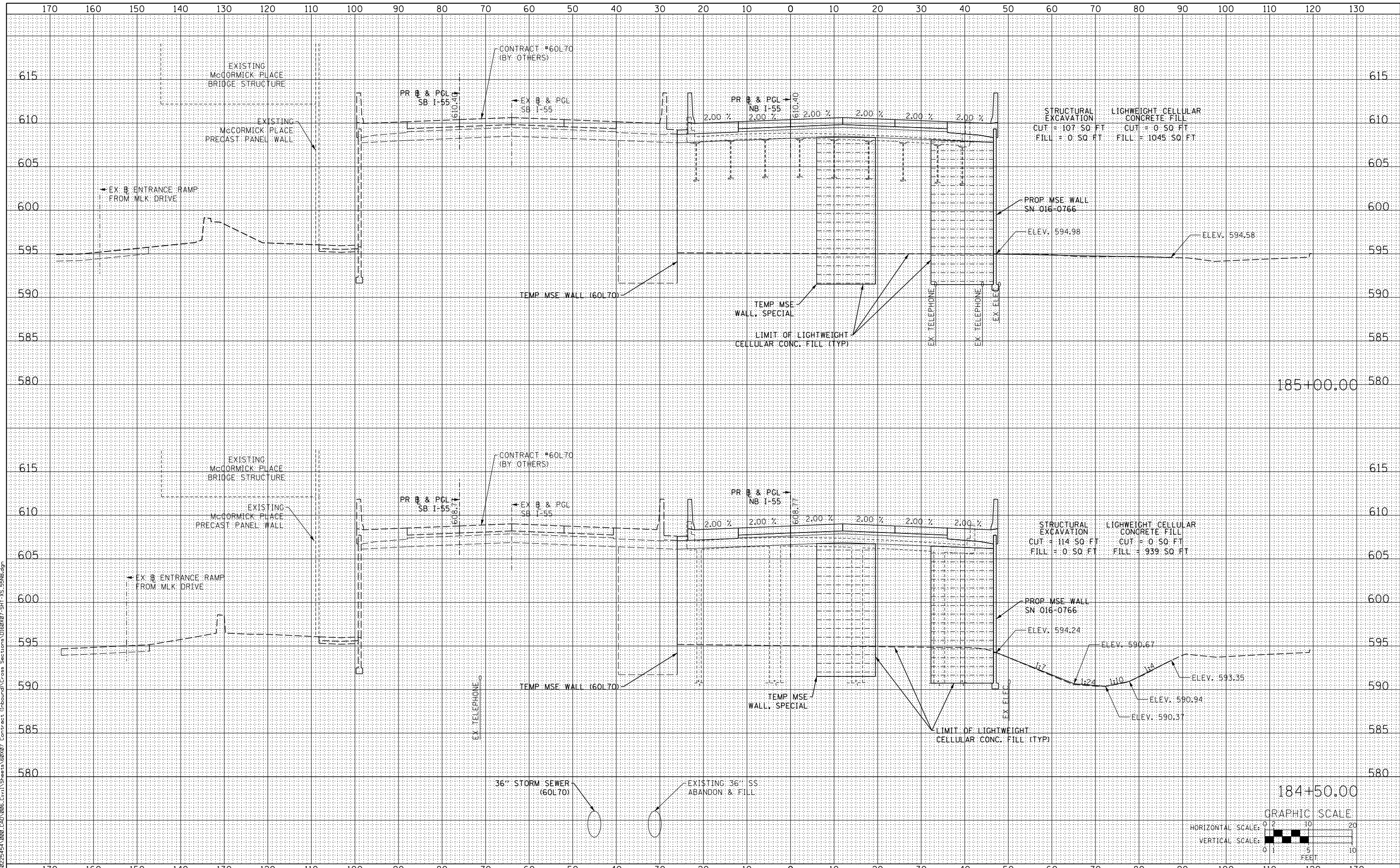
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55	2013-049B	COOK	888	861
				CONTRACT NO. 60X07
ILLINOIS FED. AID PROJECT				

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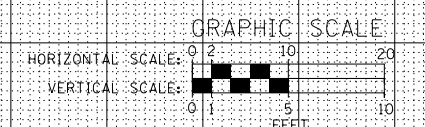
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SCALE: 1:5V,1:10H SHEET NO. 6 OF 8 SHEETS STA. 184+50.00 TO STA. 185+00.00

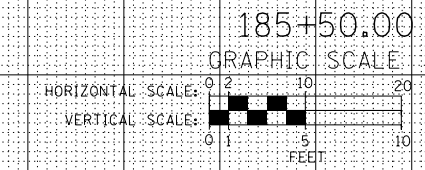
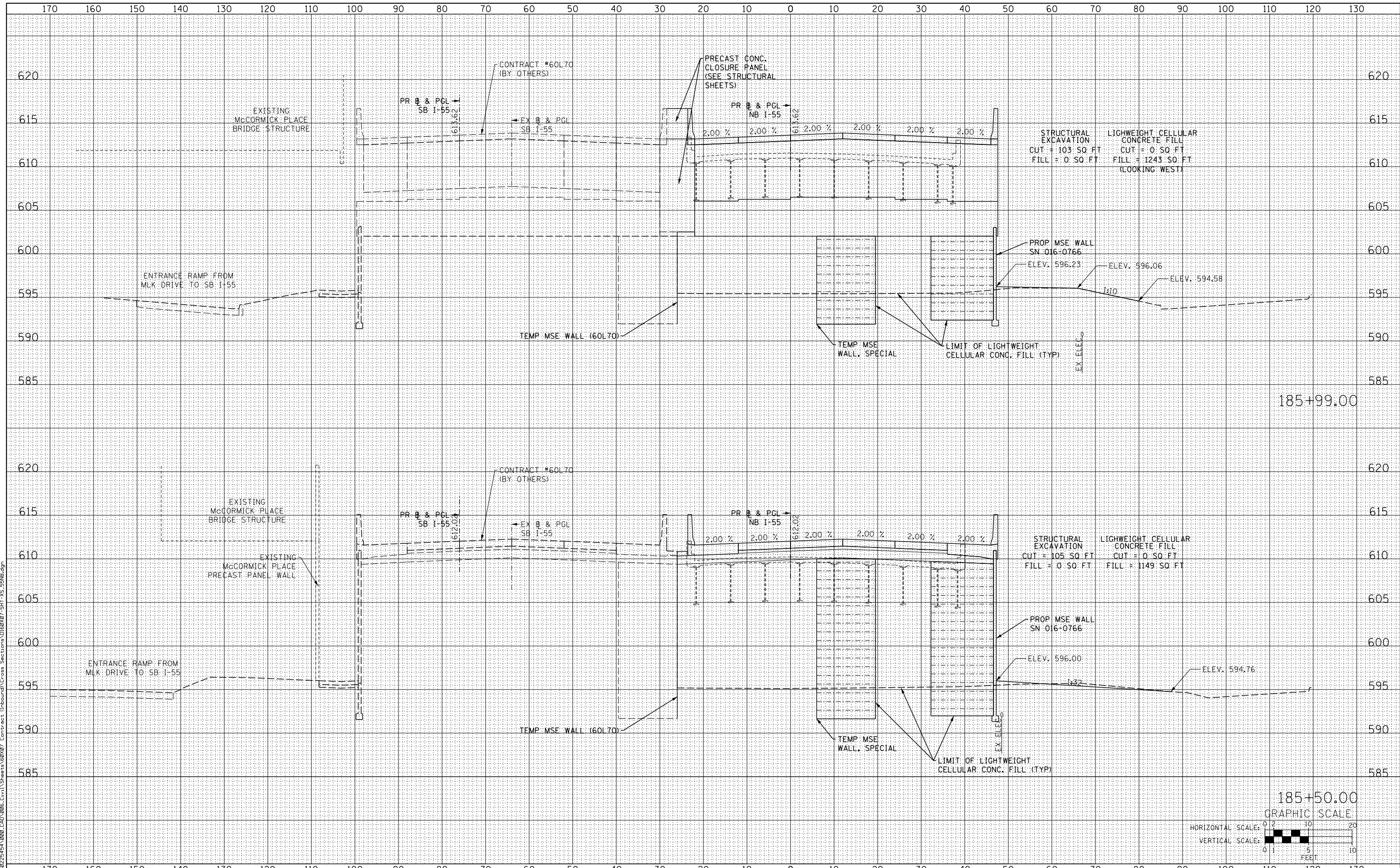


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	862
CONTRACT NO. 60X07			ILLINOIS FED. AID PROJECT	

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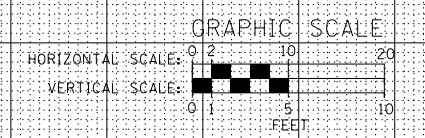
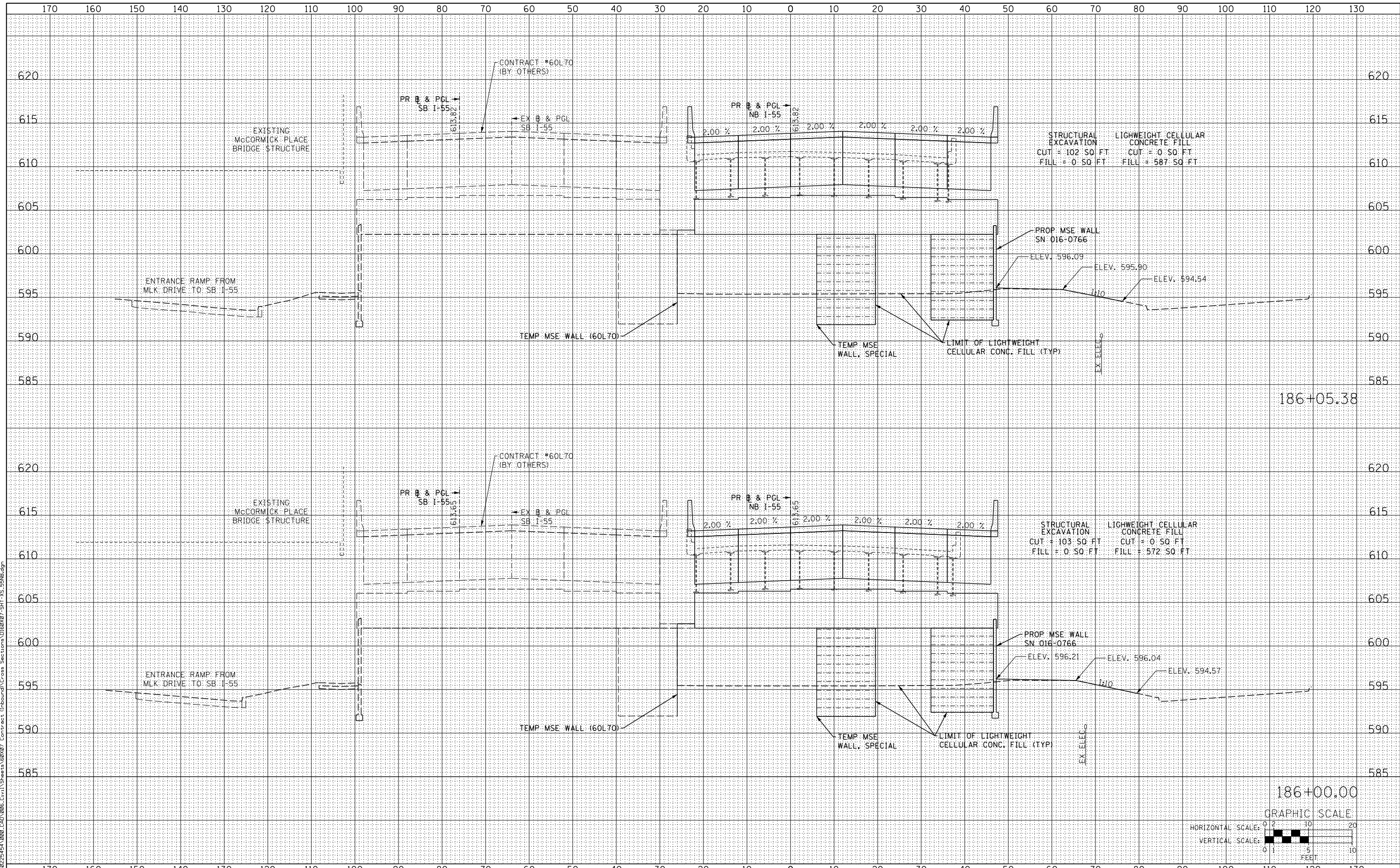
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 SCALE: 1:5V,1:10H
 SHEET NO. 7 OF 8 SHEETS
 STA. 185+50.00 TO STA. 185+99.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	863
CONTRACT NO. 60X07			ILLINOIS FED. AID PROJECT	

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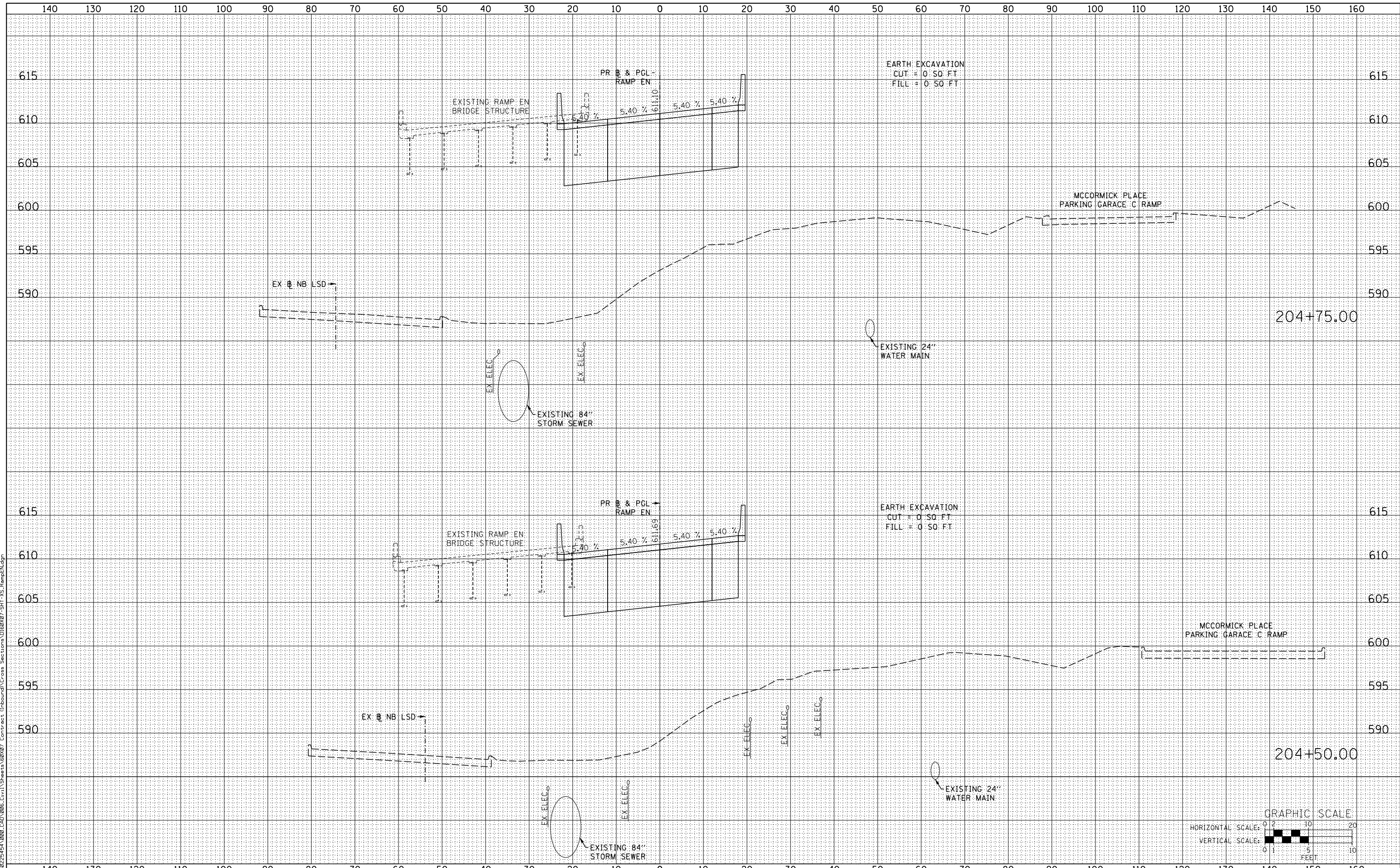
SCALE: 1:5V,1:10H SHEET NO. 6 OF 8 SHEETS STA. 186+00.00 TO STA. 186+05.38

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	864
			CONTRACT NO. 60X07	
ILLINOIS FED. AID PROJECT				

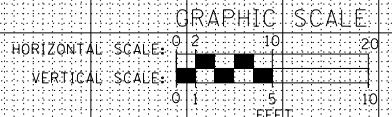
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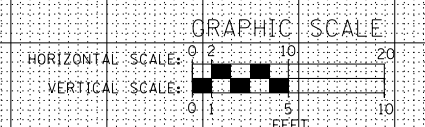
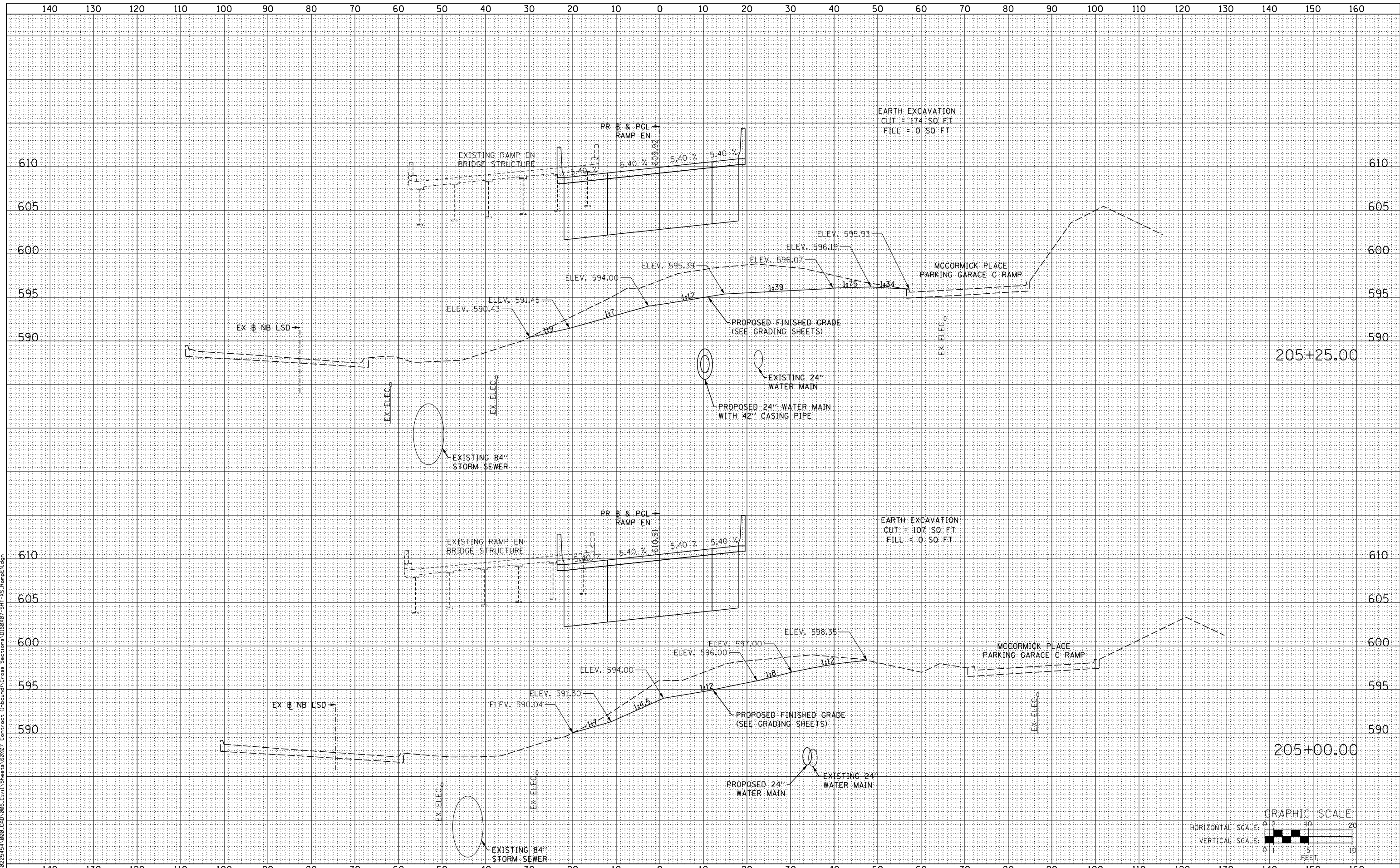
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	PLOT SCALE = 10.0000' / in.	CHECKED - MJE	REVISED -		SCALE: 1:5V, 1:10H	SHEET NO. 1 OF 12 SHEETS	STA. 204+50.00 TO STA. 204+75.00	CONTRACT NO. 60X07		ILLINOIS FED. AID PROJECT	
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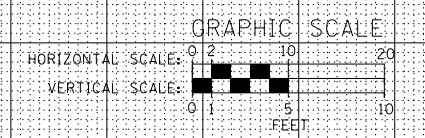
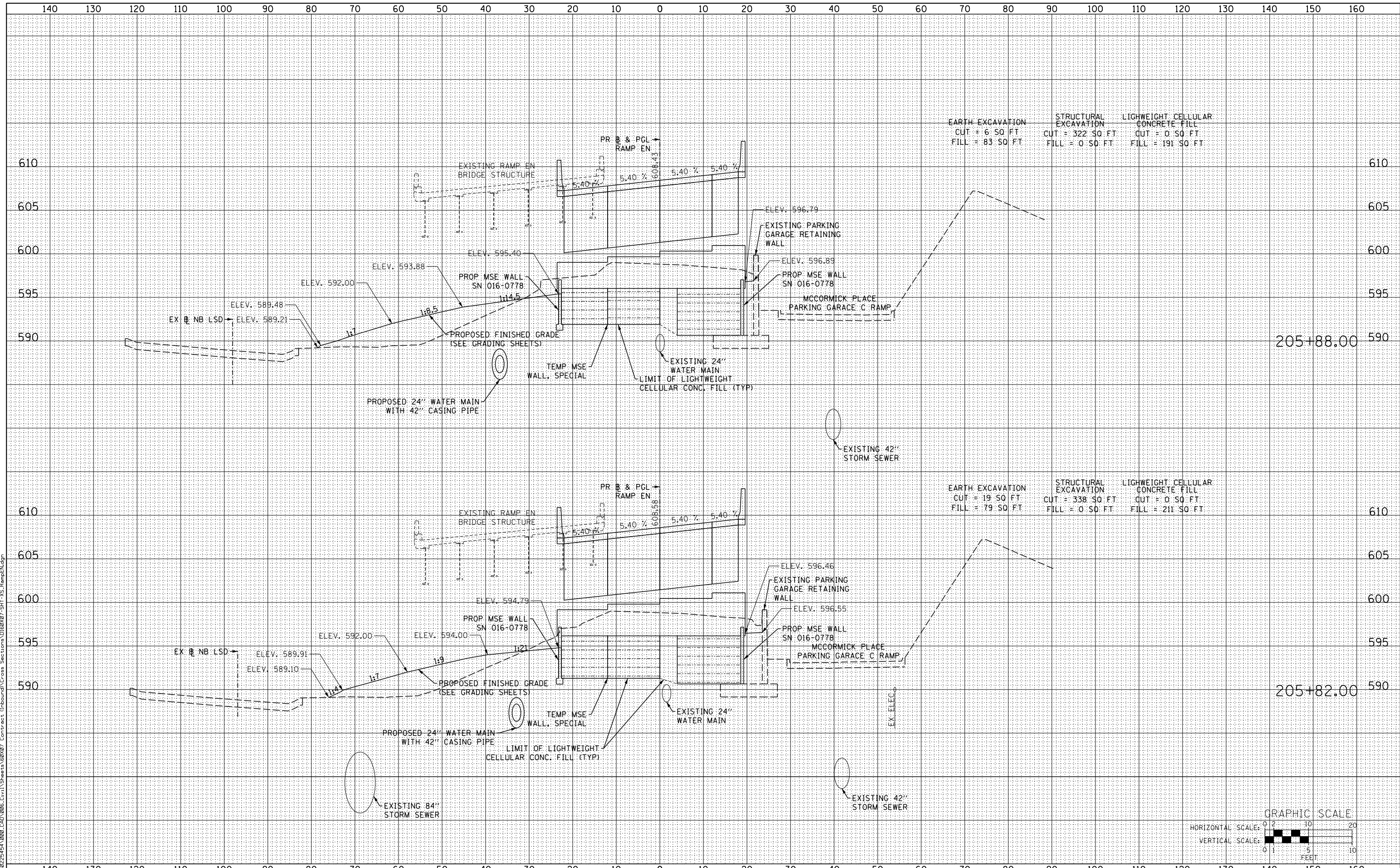
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	866
CONTRACT NO. 60X07				ILLINOIS FED. AID PROJECT

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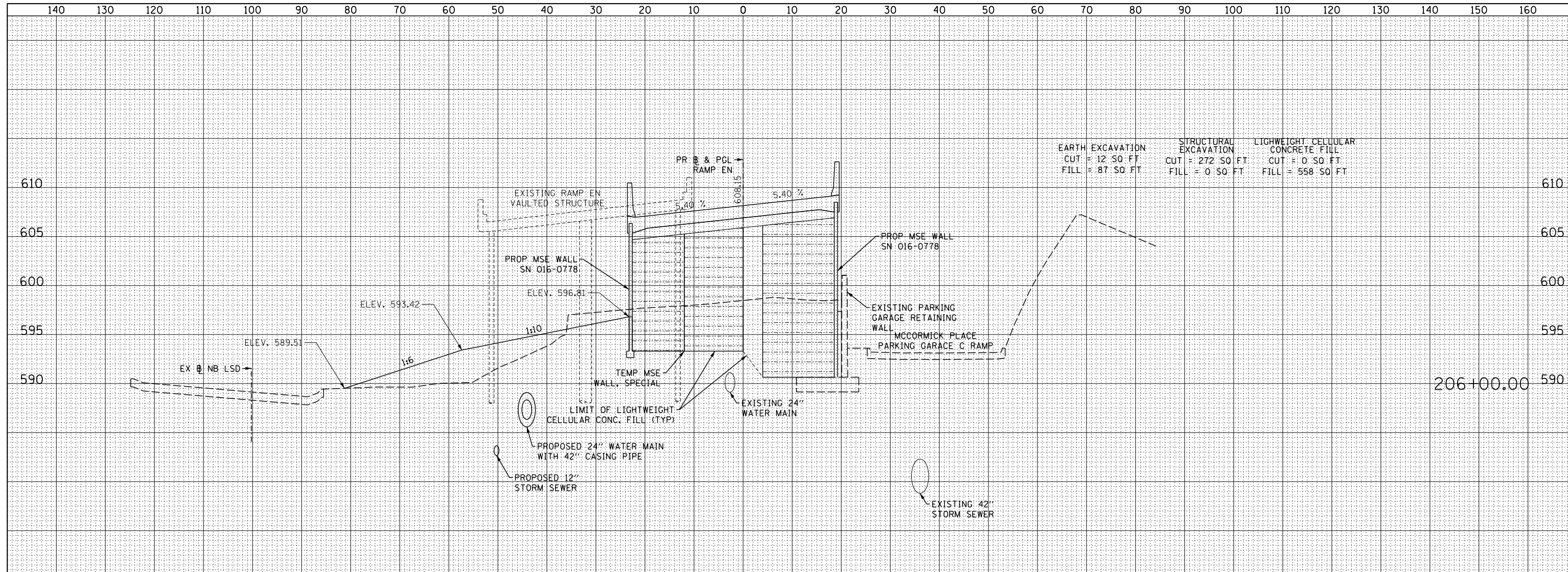
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SCALE: 1:5V,1:10H SHEET NO. 4 OF 12 SHEETS STA. 205+82.00 TO STA. 205+88.00

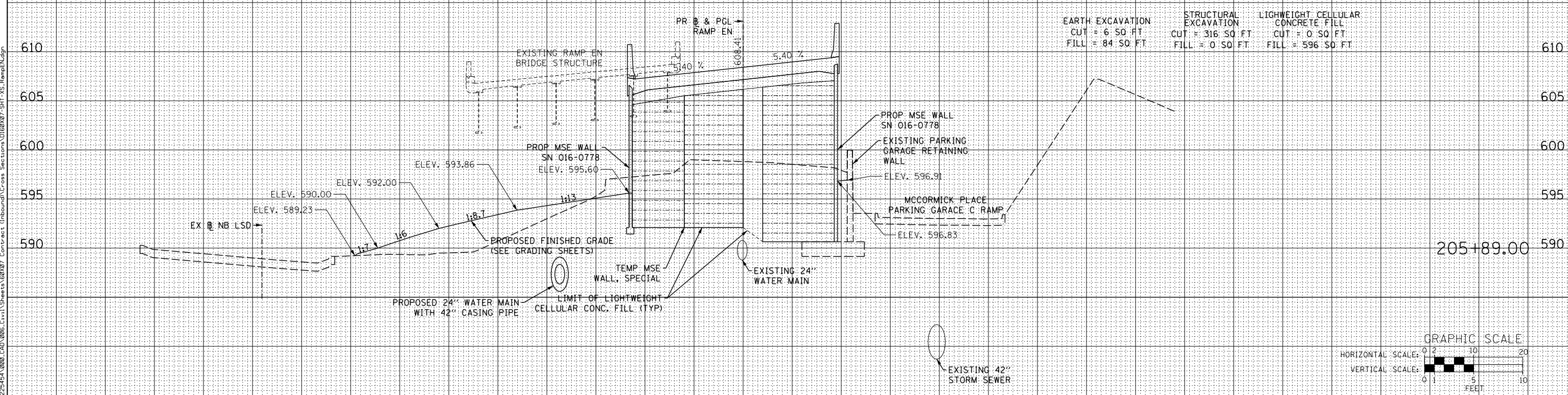
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	868
CONTRACT NO. 60X07				
ILLINOIS FED. AID PROJECT				

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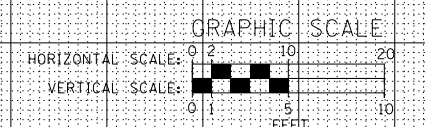


EARTH EXCAVATION	STRUCTURAL EXCAVATION	LIGHTWEIGHT CELLULAR CONCRETE FILL
CUT = 12 SO FT	CUT = 272 SO FT	CUT = 0 SO FT
FILL = 87 SO FT	FILL = 0 SO FT	FILL = 558 SO FT

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EARTH EXCAVATION	STRUCTURAL EXCAVATION	LIGHTWEIGHT CELLULAR CONCRETE FILL
CUT = 6 SO FT	CUT = 316 SO FT	CUT = 0 SO FT
FILL = 84 SO FT	FILL = 0 SO FT	FILL = 596 SO FT



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SCALE: 1:5V, 1:10H SHEET NO. 5 OF 12 SHEETS STA. 205+89.00 TO STA. 206+00.00

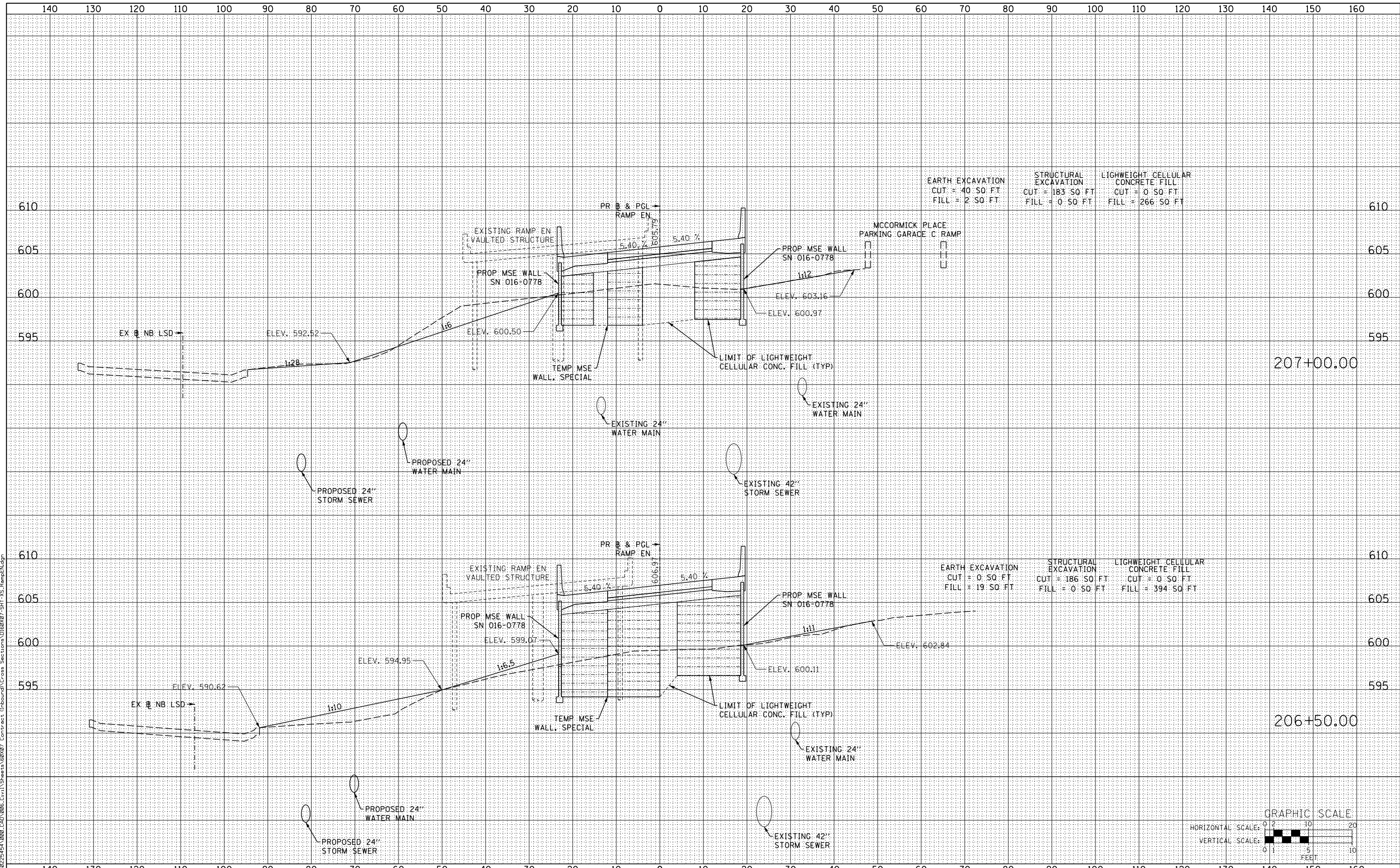
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	869
CONTRACT NO. 60X07				
ILLINOIS FED. AID PROJECT				

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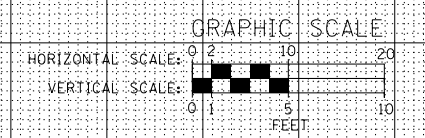
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EARTH EXCAVATION	STRUCTURAL EXCAVATION	LIGHTWEIGHT CELLULAR CONCRETE FILL
CUT = 40 SQ FT	CUT = 183 SQ FT	CUT = 0 SQ FT
FILL = 2 SQ FT	FILL = 0 SQ FT	FILL = 266 SQ FT

EARTH EXCAVATION	STRUCTURAL EXCAVATION	LIGHTWEIGHT CELLULAR CONCRETE FILL
CUT = 0 SQ FT	CUT = 186 SQ FT	CUT = 0 SQ FT
FILL = 19 SQ FT	FILL = 0 SQ FT	FILL = 394 SQ FT



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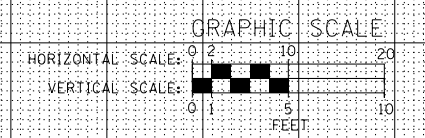
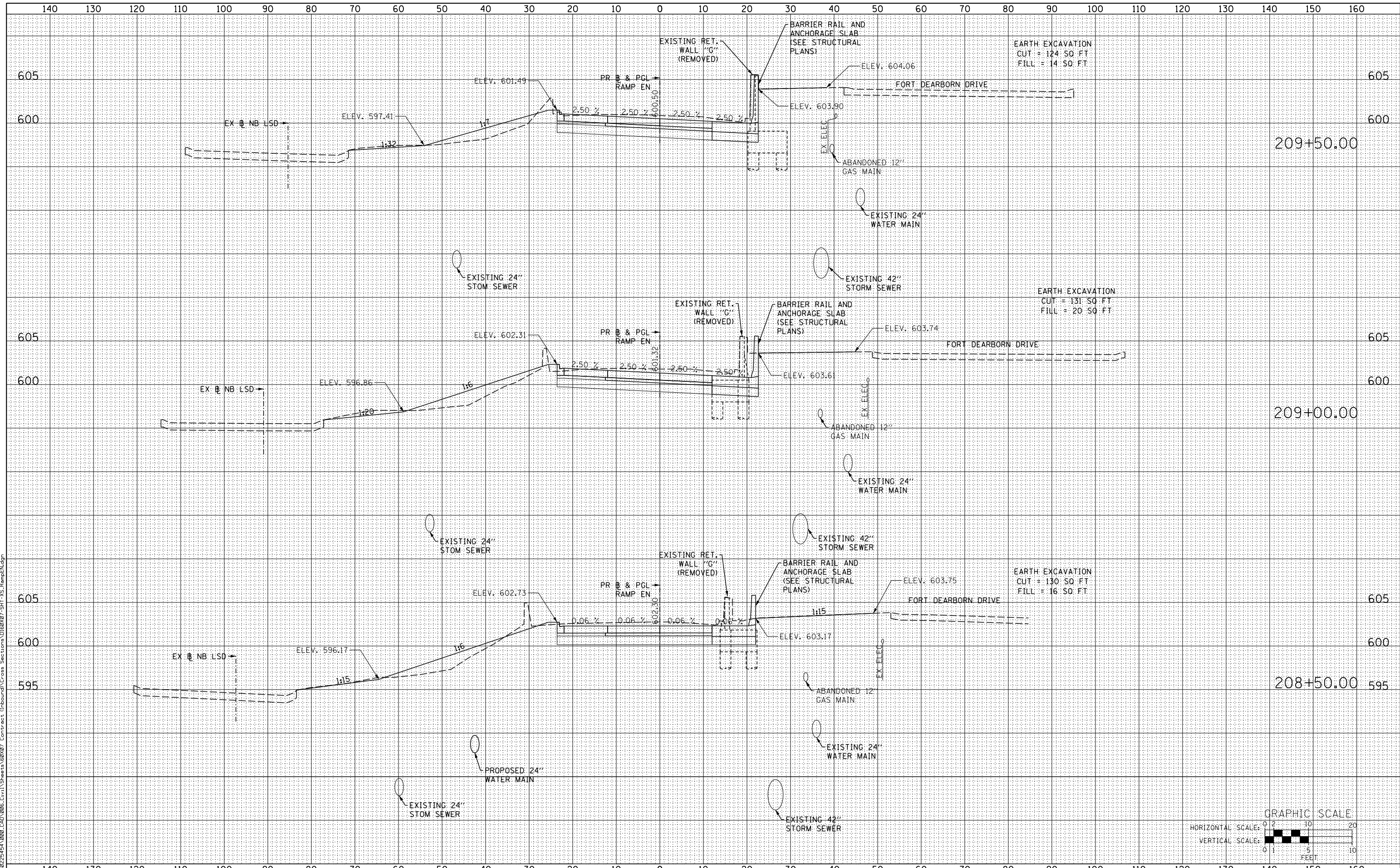
SCALE: 1:5V,1:10H SHEET NO. 6 OF 12 SHEETS STA. 206+50.00 TO STA. 207+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	870
			CONTRACT NO. 60X07	
ILLINOIS FED. AID PROJECT				

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SCALE: 1:5V, 1:10H SHEET NO. 8 OF 12 SHEETS STA. 208+50.00 TO STA. 209+50.00

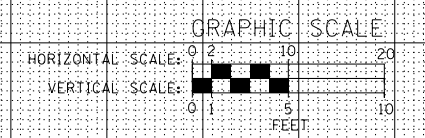
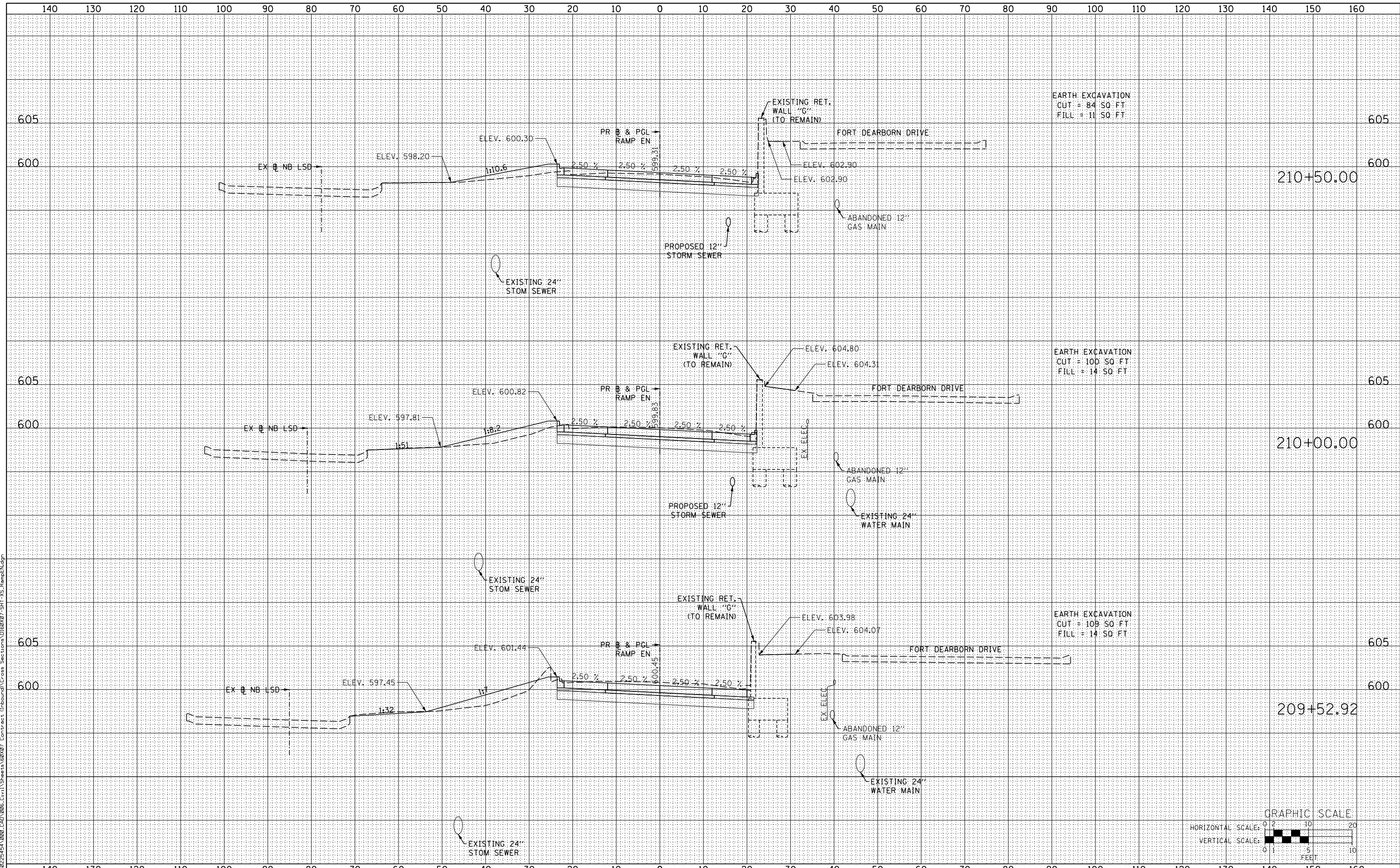
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	872
				CONTRACT NO. 60X07

ILLINOIS FED. AID PROJECT

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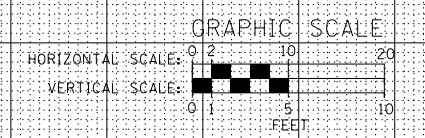
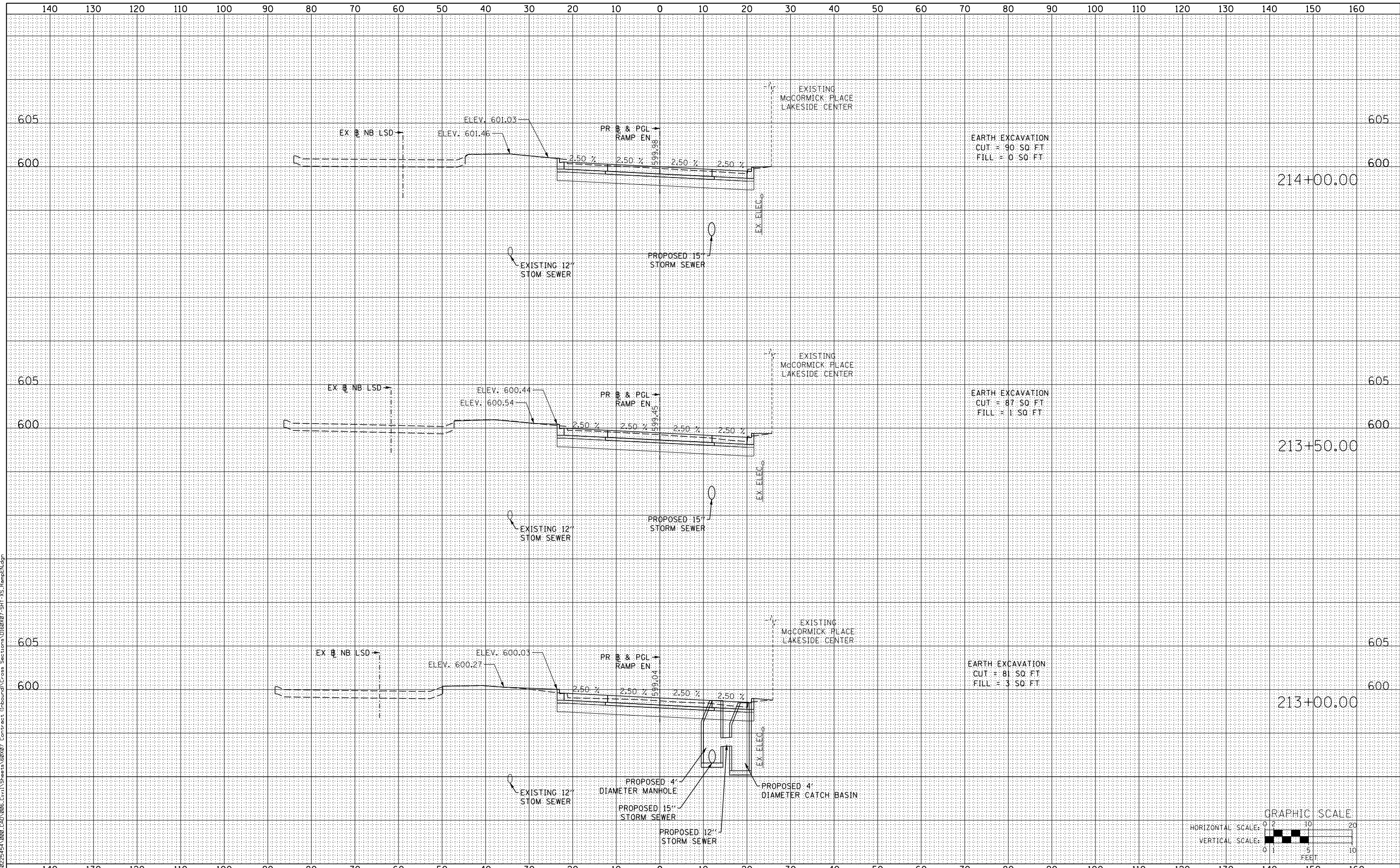
SCALE: 1:5V,1:10H SHEET NO. 9 OF 12 SHEETS STA. 209+52.92 TO STA. 210+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	873
			CONTRACT NO. 60X07	
ILLINOIS FED. AID PROJECT				

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AREAS CHECKED	
FINAL SURVEY	
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USER NAME = augeungh
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 DATE - 5/26/2015

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
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SCALE: 1:5V,1:10H SHEET NO. 11 OF 12 SHEETS STA. 213+00.00 TO STA. 214+00.00

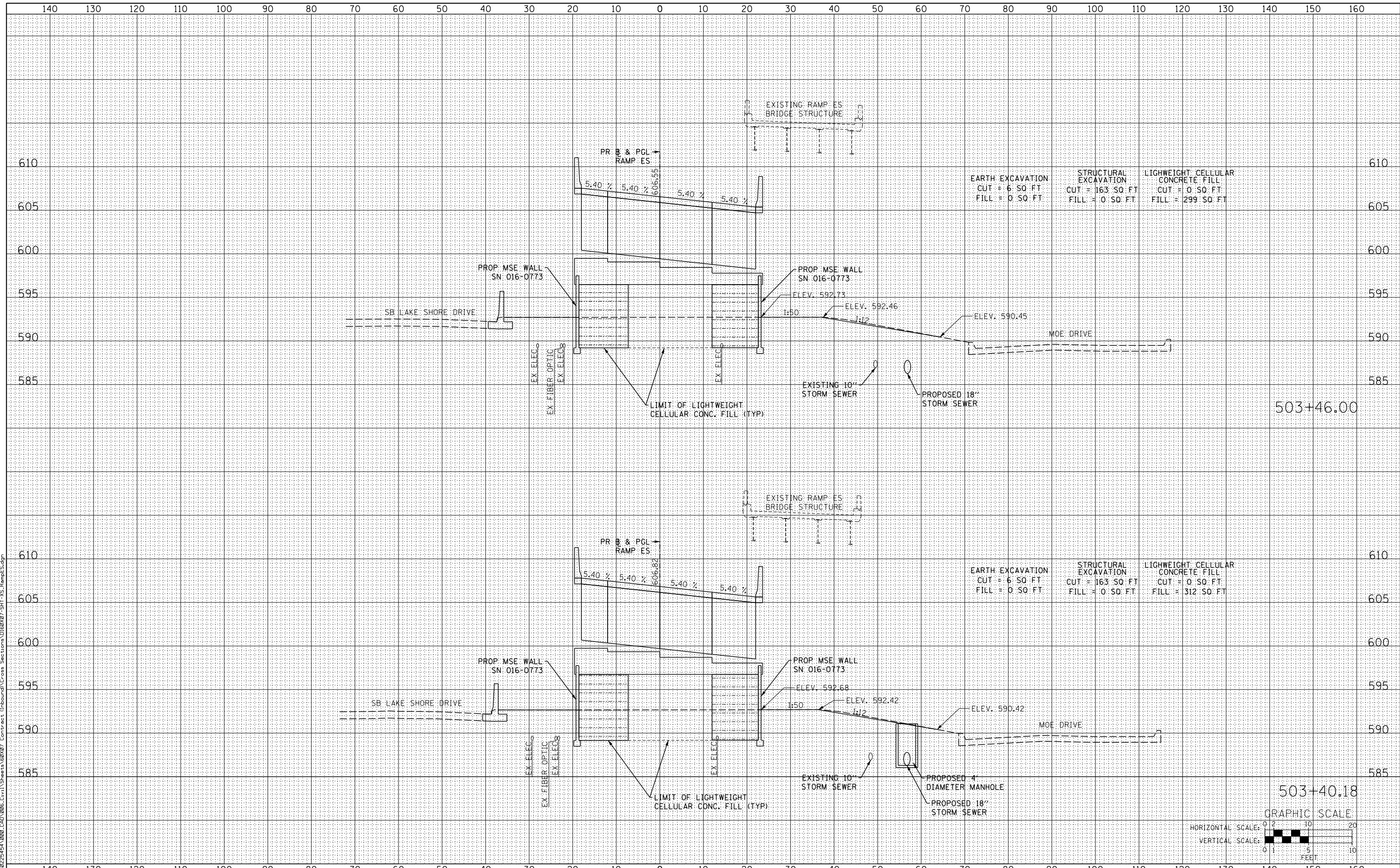
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	875
			CONTRACT NO. 60X07	

ILLINOIS FED. AID PROJECT

DATE	
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FINAL SURVEY	
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EARTH EXCAVATION
CUT = 6.50 FT
FILL = 0.50 FT

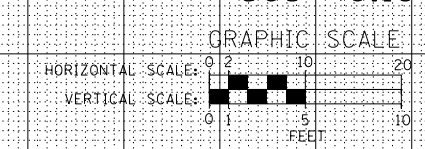
STRUCTURAL EXCAVATION
CUT = 163.50 FT
FILL = 0.50 FT

LIGHTWEIGHT CELLULAR CONCRETE FILL
CUT = 0.50 FT
FILL = 299.50 FT

EARTH EXCAVATION
CUT = 6.50 FT
FILL = 0.50 FT

STRUCTURAL EXCAVATION
CUT = 163.50 FT
FILL = 0.50 FT

LIGHTWEIGHT CELLULAR CONCRETE FILL
CUT = 0.50 FT
FILL = 312.50 FT

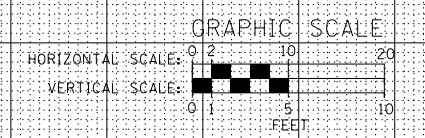
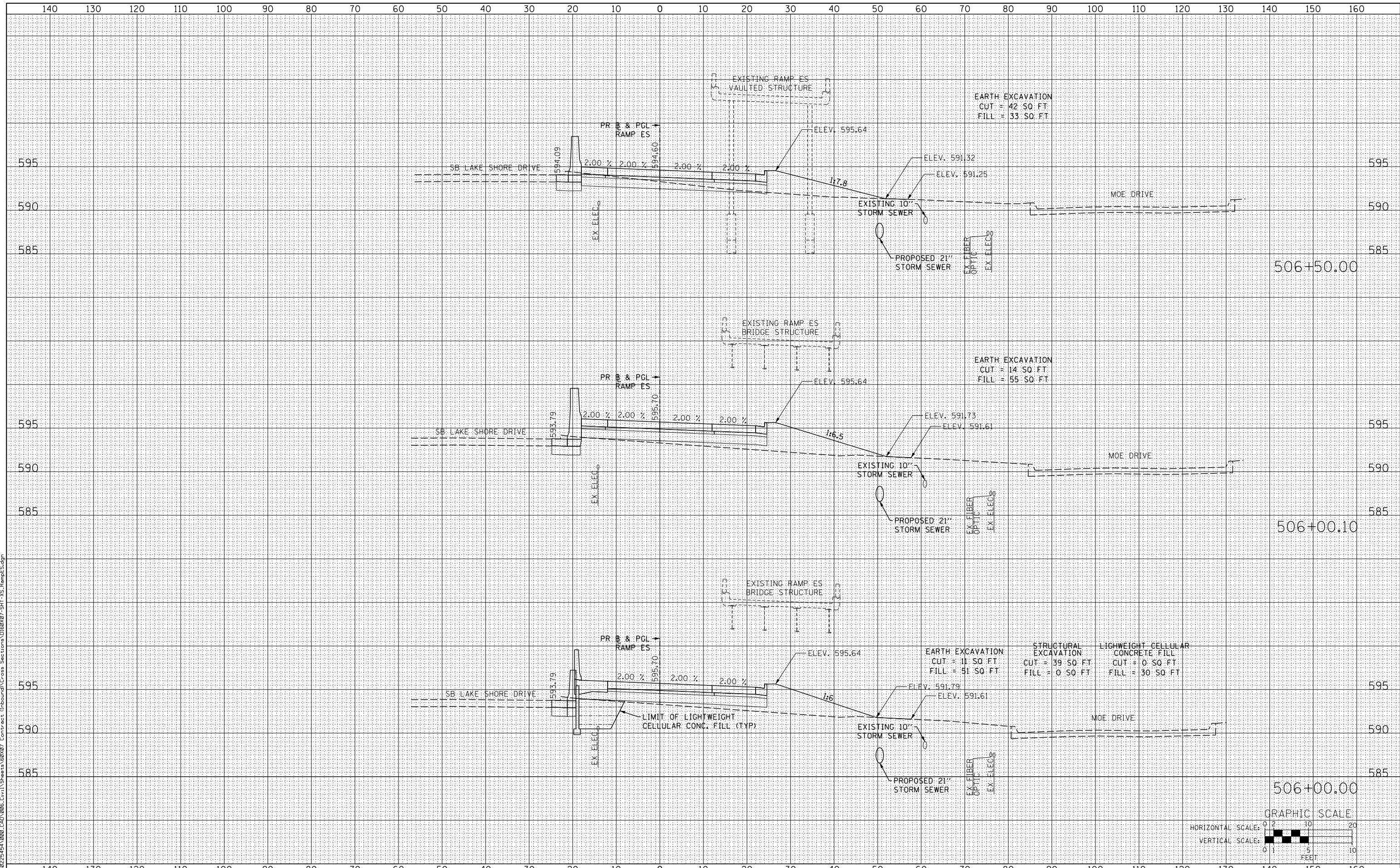


<p>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-3276 PHONE (312) 373-7700 FAX (312) 373-8800</p>	USER NAME = augeungh	DESIGNED - WBS	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">CROSS SECTIONS RAMP ES</p>		F.A.I. RTE. = 55	SECTION = 2013-049B	COUNTY = COOK	TOTAL SHEETS = 888	SHEET NO. = 877
	PLOT SCALE = 10.0000" / 1"	CHECKED - MJE	REVISED -		SCALE: 1:5V, 1:10H	SHEET NO. 1 OF 12 SHEETS	STA. 503+40.18 TO STA. 503+46.00	CONTRACT NO. 60X07		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 5/26/2015	DATE = 5/26/2015	REVISED -								

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
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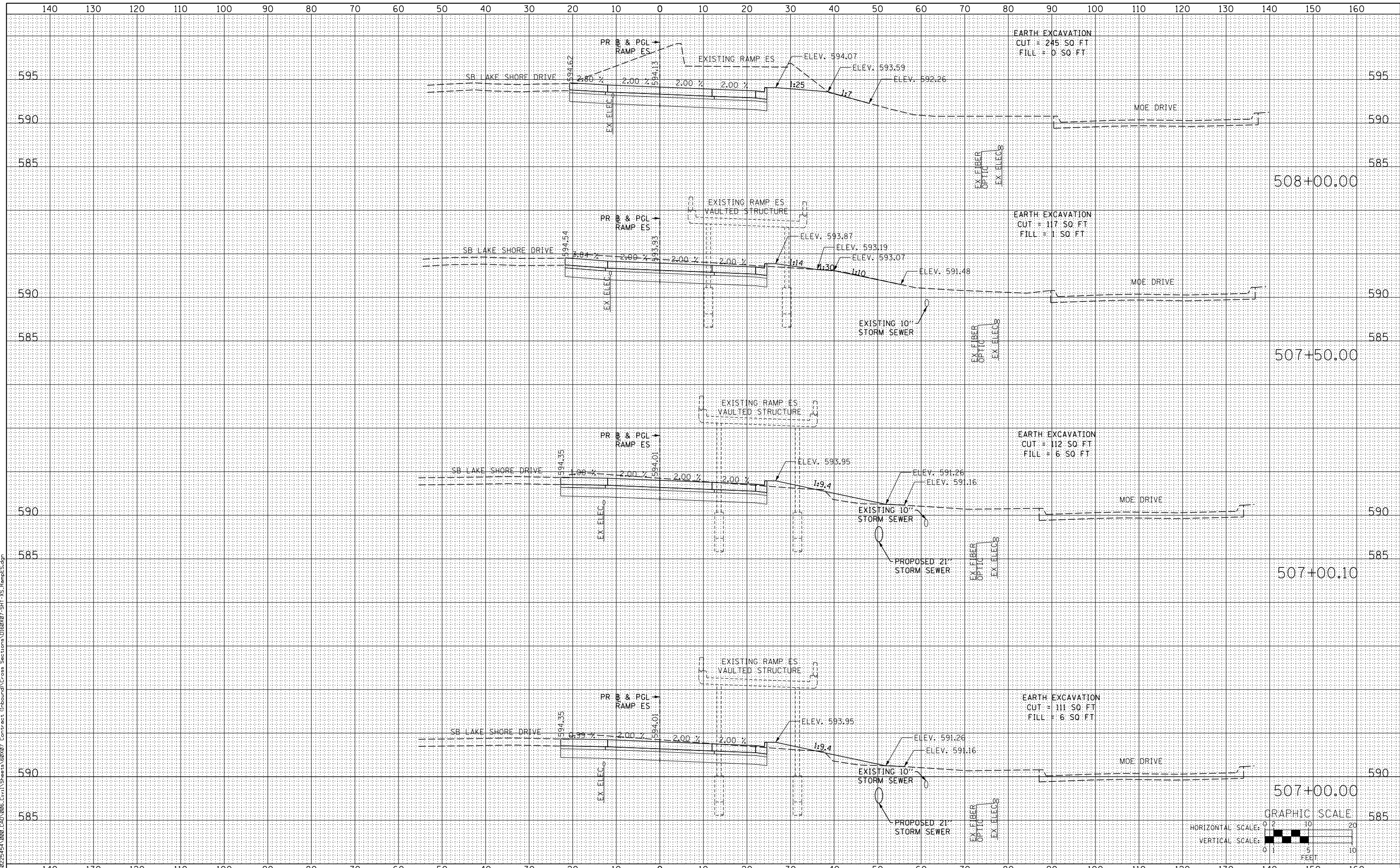
SCALE: 1:5V,1:10H SHEET NO. 5 OF 12 SHEETS STA. 506+00.00 TO STA. 506+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	881
CONTRACT NO. 60X07			ILLINOIS FED. AID PROJECT	

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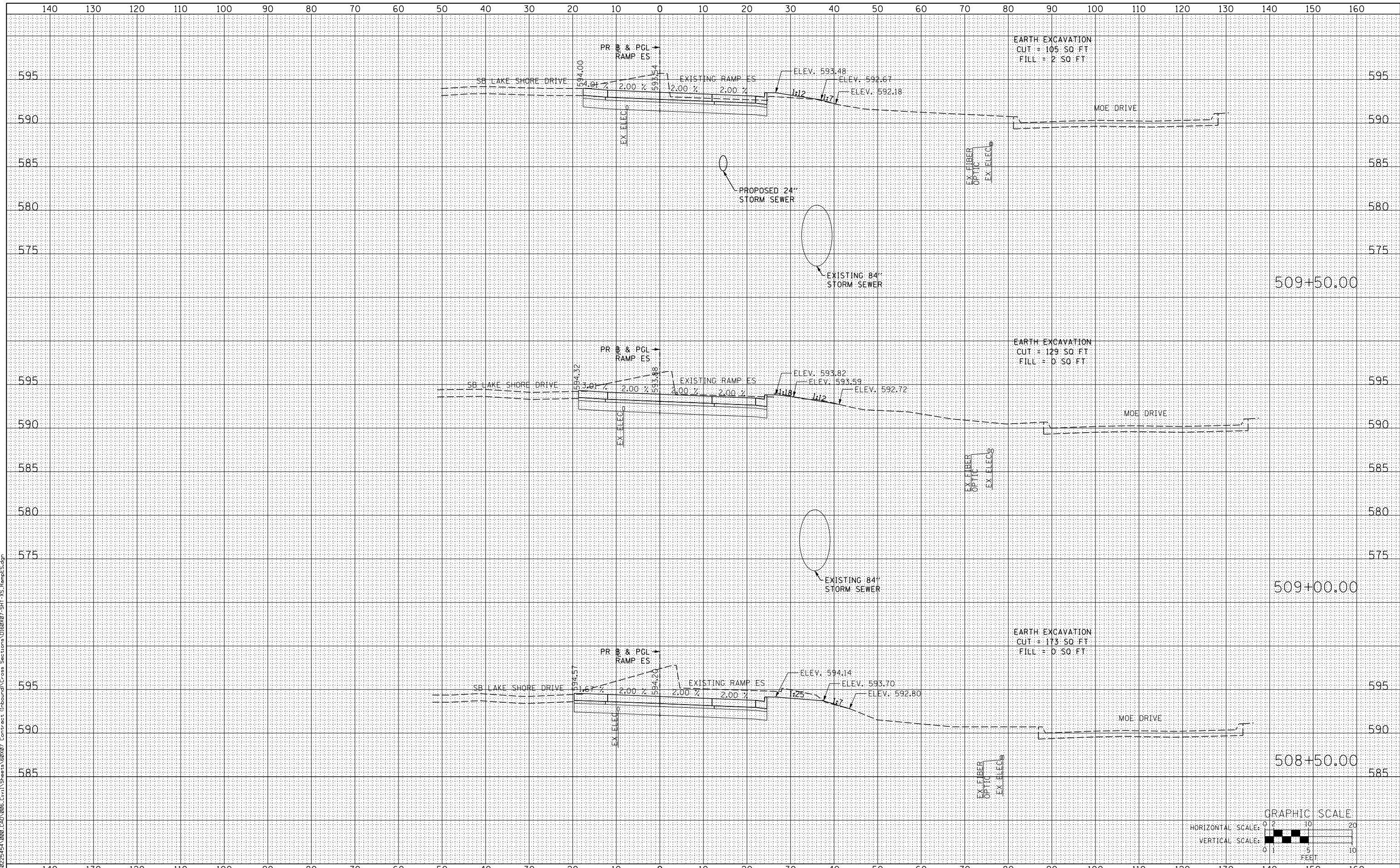


<p>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-3276 PHONE: (312) 373-7700 FAX: (312) 373-8800</p>	USER NAME = augeaugh DESIGNED - WBS DRAWN - WBS CHECKED - MJE DATE - 5/26/2015	REVISIONS REVISION NO. DESCRIPTION 1 2 3 4	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS RAMP ES	SCALE: 1:5V, 1:10H SHEET NO. 6 OF 12 SHEETS STA. 507+00.00 TO STA. 508+00.00	F.A.I. RT. SECTION COUNTY TOTAL SHEETS SHEET NO. 55 2013-049B COOK 888 882 CONTRACT NO. 60X07 ILLINOIS FED. AID PROJECT
	GRAPHIC SCALE HORIZONTAL SCALE: 1" = 20 FEET VERTICAL SCALE: 1" = 5 FEET					

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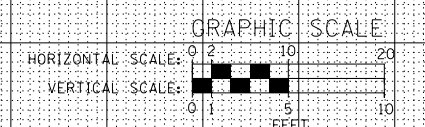
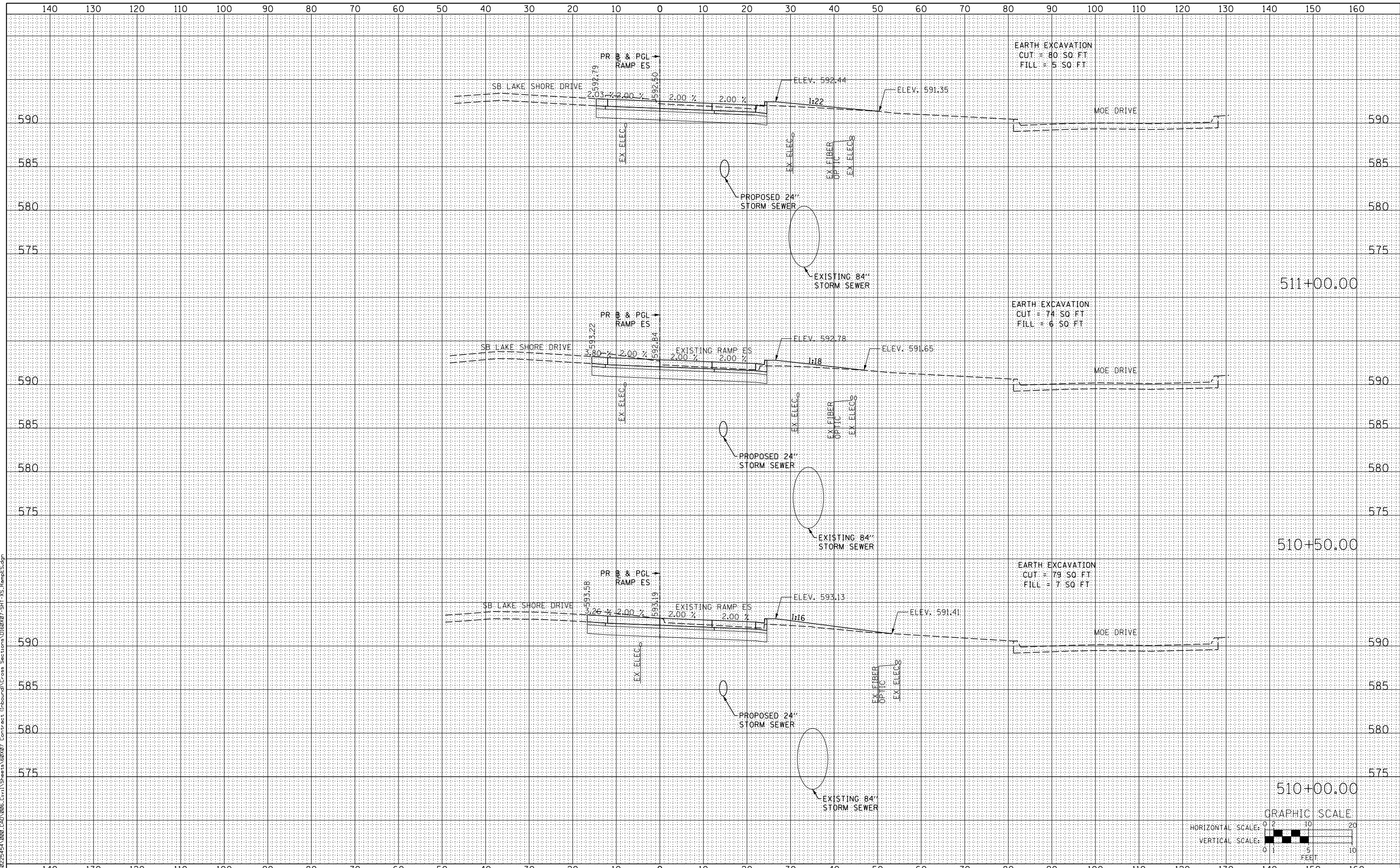


<p>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-3276 PHONE: (312) 373-7700 FAX: (312) 373-8800</p>	USER NAME = auyeahugh DESIGNED - WBS DRAWN - WBS CHECKED - MJE DATE - 5/26/2015	REVISIONS REVISION NO. DESCRIPTION 1 2 3 4	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS RAMP ES	SCALE: 1:5V, 1:10H SHEET NO. 7 OF 12 SHEETS STA. 508+50.00 TO STA. 509+50.00	F.A.I. RTE. 55 SECTION 2013-049B COUNTY COOK TOTAL SHEETS 888 SHEET NO. 883 CONTRACT NO. 60X07	GRAPHIC SCALE HORIZONTAL SCALE: 1" = 20 FEET VERTICAL SCALE: 1" = 5 FEET	ILLINOIS FED. AID PROJECT
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
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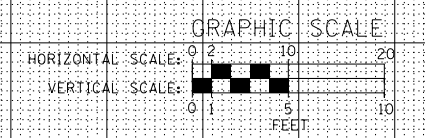
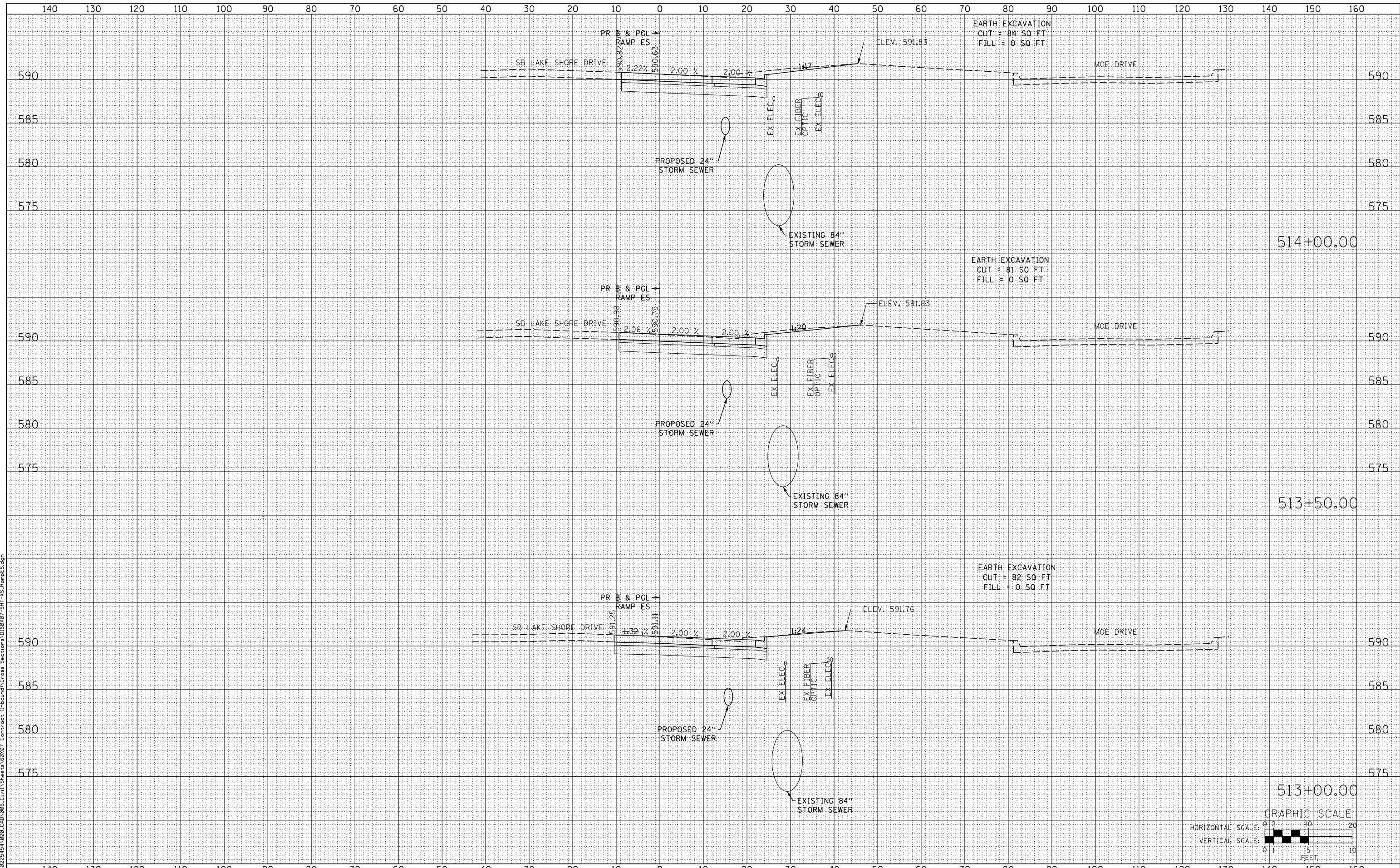
SCALE: 1:5V,1:10H SHEET NO. 8 OF 12 SHEETS STA. 510+00.00 TO STA. 511+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	884
CONTRACT NO. 60X07			ILLINOIS FED. AID PROJECT	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
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FINAL SURVEY	
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 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
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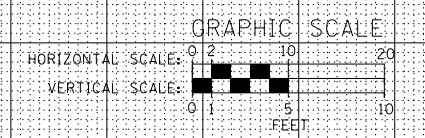
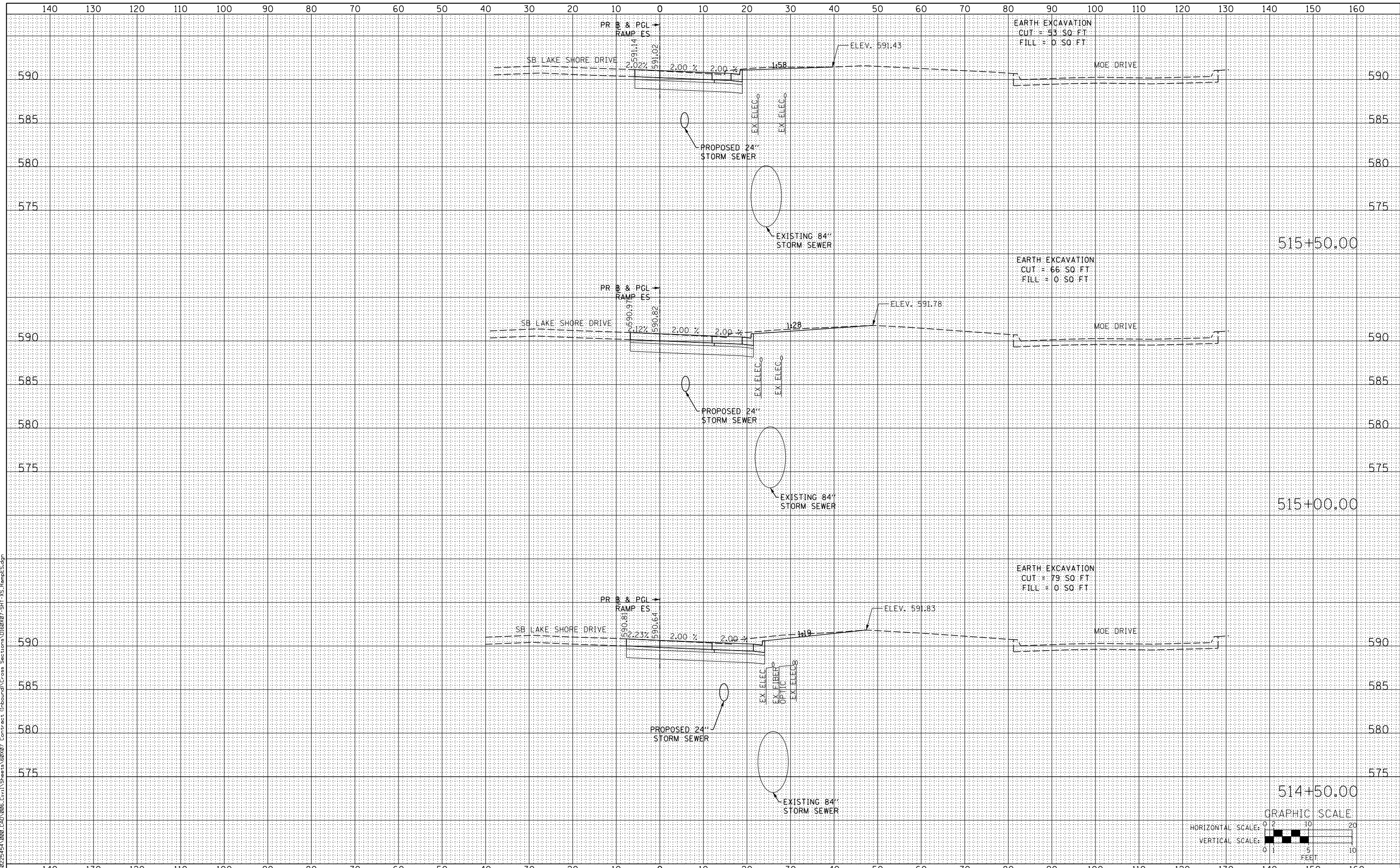
SCALE: 1:5V,1:10H SHEET NO. 10 OF 12 SHEETS STA. 513+00.00 TO STA. 514+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	886
				CONTRACT NO. 60X07
ILLINOIS FED. AID PROJECT				

DATE	
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 RAMP ES

SCALE: 1:5V,1:10H SHEET NO. 11 OF 12 SHEETS STA. 514+50.00 TO STA. 515+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2013-049B	COOK	888	887
				CONTRACT NO. 60X07
ILLINOIS FED. AID PROJECT				

