

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f' = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

UTILITIES: The contractor shall verify location of existing utilities before construction.

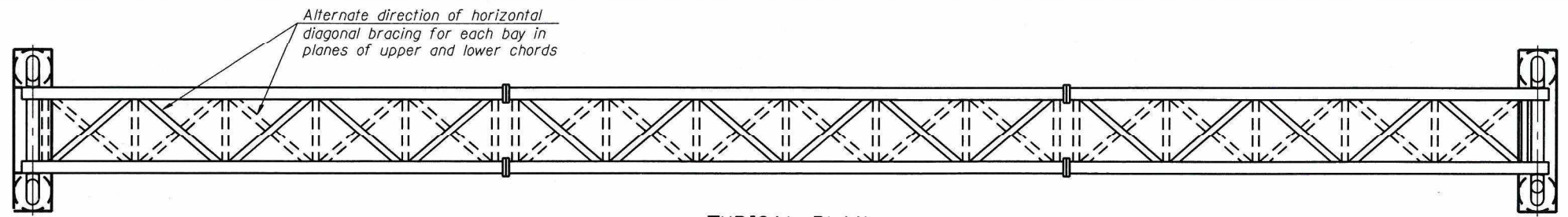
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A	Foot	100
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	27.8
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	1
CONCRETE BARRIER TRANSITION	FOOT	13
CONCRETE BARRIER REMOVAL	FOOT	25
REMOVE CONCRETE FOUNDATION-OVERHEAD	EACH	1

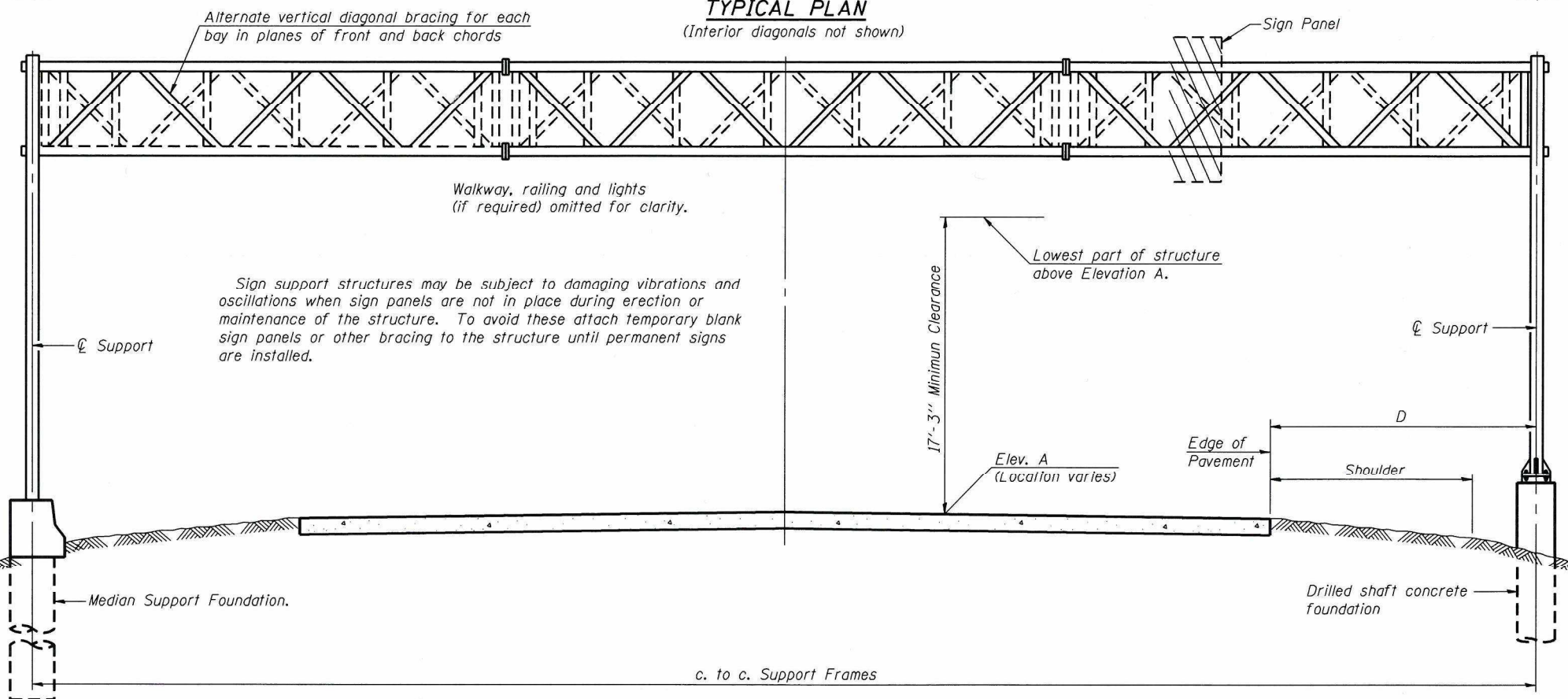


COLLINS ENGINEERS, INC.
EWA MROCZEK, P.E., S.E.
NO. 081-006067
EXP: 11/30/2016

FOR SIGN STRUCTURE SHOWN ON THIS SHEET



TYPICAL PLAN
(Interior diagonals not shown)



TYPICAL ELEVATION
(Looking at Face of Signs)**

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

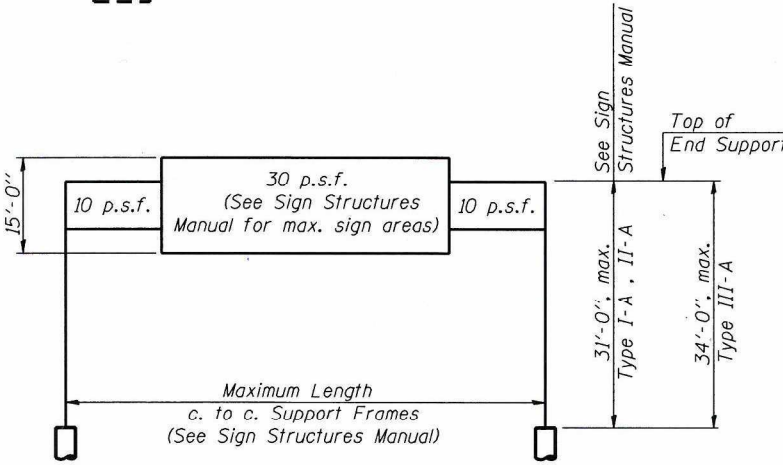
Structure Number	Station ***	Design Truss Type	c. to c. Supports	Elev. A ****	Dim. D	Height of Tallest Sign	Total Sign Area
150161190L000.8	10+00	III-A	100'	652.57	47'-9 1/2"	16.5'	711.25

**Looking upstation for structures with signs both sides.

* If M270 Gr. (M22) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

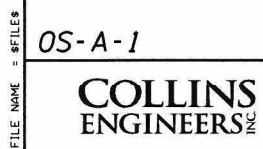
*** Sign shall be located 10 ft. East of the existing sign at MP 0.8 near Exit 1A.

**** Proposed elevation, Existing elevation A=652.00



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.



USER NAME = mpell	DESIGNED - KVH	REVISED -
PLOT SCALE = 20,0000 / 1"	DRAWN - LS	REVISED -
PLOT DATE = 5/20/2015	CHECKED - EKM	REVISED -
DATE = 01/27/2015	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS

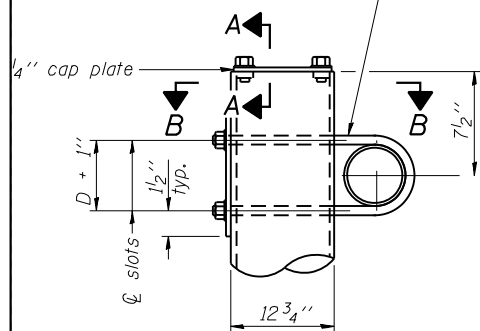
F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 201
CONTRACT NO. 60X56			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FILE NAME = \$FILES

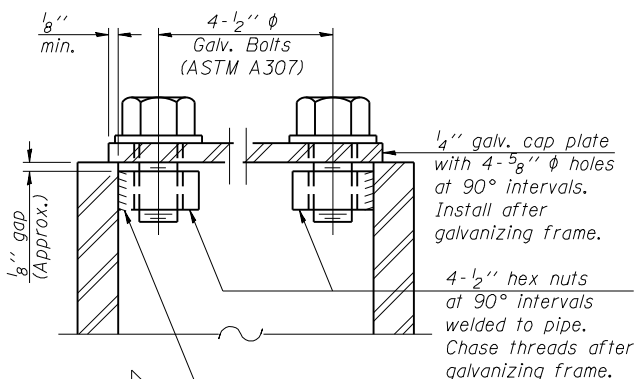
OS-A-1

8-21-13

3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 12" φ pipe.
(4 slots required per pipe)

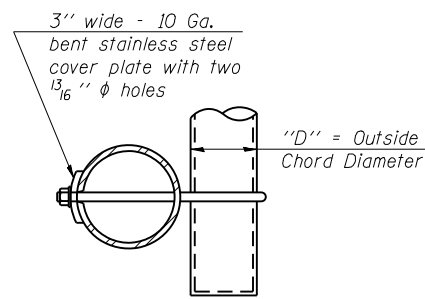


DETAIL A

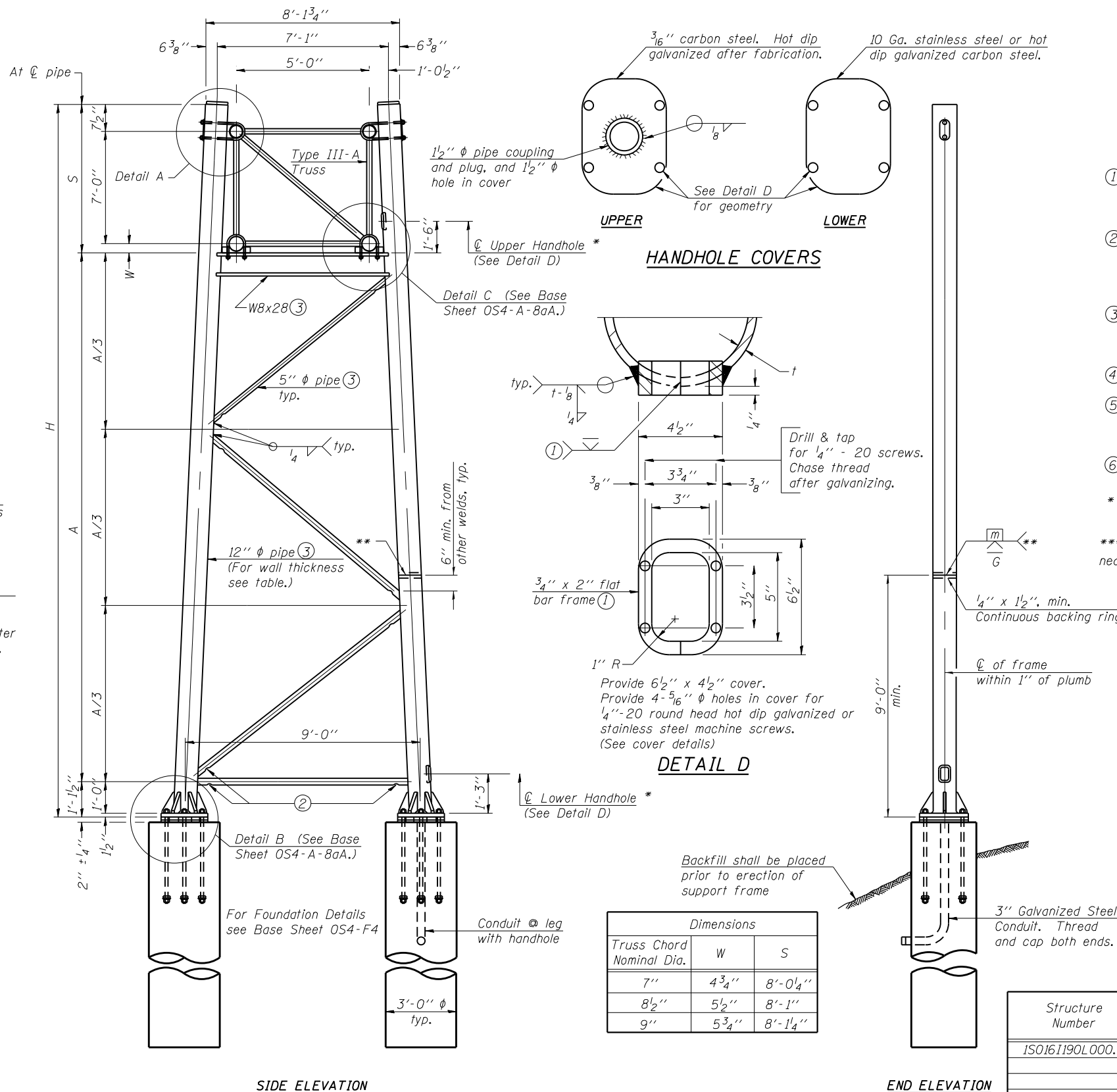


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



SIDE ELEVATION

END ELEVATION

TRUSS SUPPORT DETAILS

(12" φ Pipe-Type III-A Truss)

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 μin or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.
***Sign shall be located 10 ft. East of the existing sign at MP 0.8 near Exit 1A.

Structure Number	Station	Support		Pipe Wall Thickness	H (6)	A
		Left	Right			
ISO16I190L000.8	10+00	X	X	0.33	26'-7"	17'-3 1/4"
				0.33	32'-0"	22'-10 1/4"

OS4-A-8a

6-1-12

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USER NAME = mpe11	DESIGNED - Kvh	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN - LS	REVISED -
PLOT DATE = 5/20/2015	CHECKED - EKM	REVISED -
	DATE - 01/27/2015	REVISED -

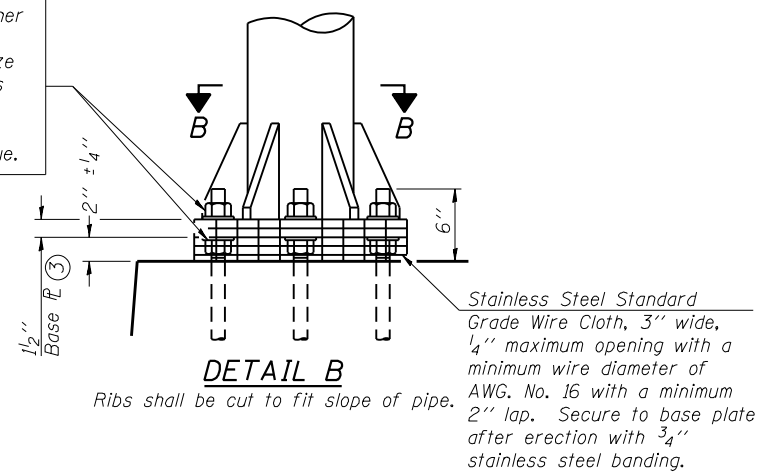
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - SUPPORT FRAME
FOR TYPE III-A ALUMINUM TRUSS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	202
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = BFILES

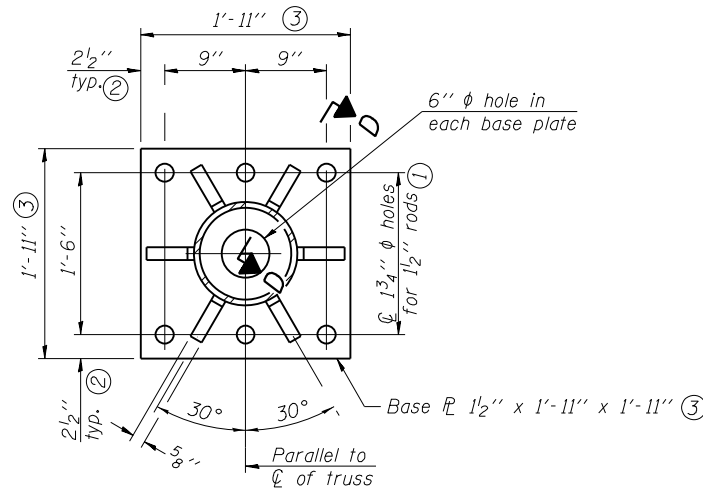
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



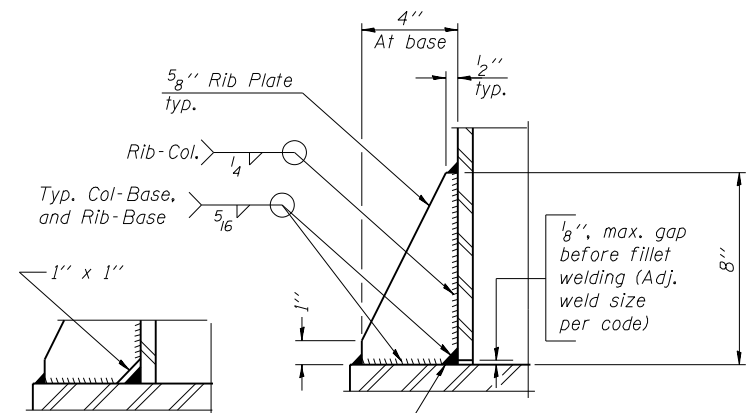
DETAIL B

Ribs shall be cut to fit slope of pipe.

Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.



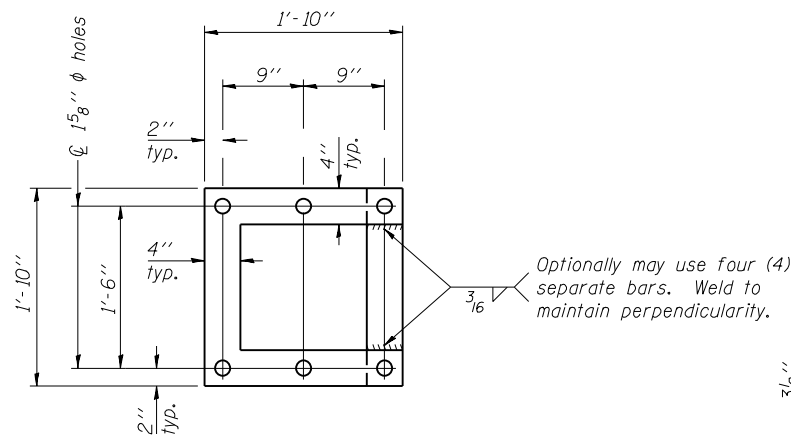
SECTION B-B



SECTION D-D

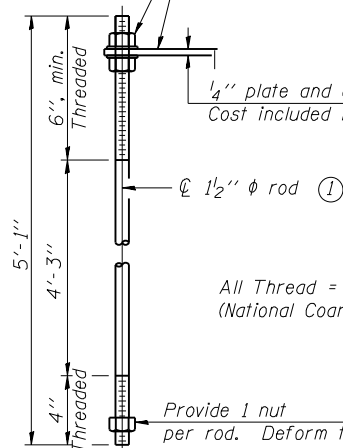
** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

No snip req'd. at rib inside corner if placed before col. to base plate welding.**



POSITIONING PLATE(S)

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



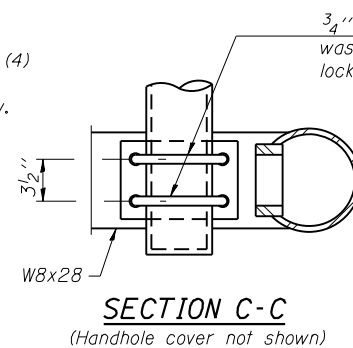
ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS
12" φ PIPE SUPPORT FRAME DETAILS**

Notes:
For Type III-A Truss spans greater than 150 ft. and up to 160 ft.:

- ① 1 3/4" φ rod, 2" φ holes
- ② 2 3/4" edge distance
- ③ Base Pl 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



SECTION C-C

(Handhole cover not shown)

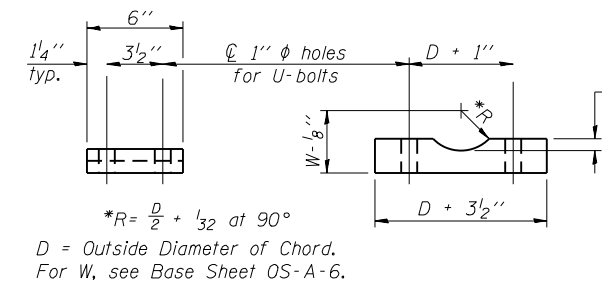
3/4" φ U-bolts. Provide washers and hexagon locknuts. (2 required)

Field drill 15/16" φ holes. Touch up holes with galvanizing paint.

Drain hole (See Base Sheet OS-A-2.)

1/8" fabric or neoprene pad.

DETAIL C



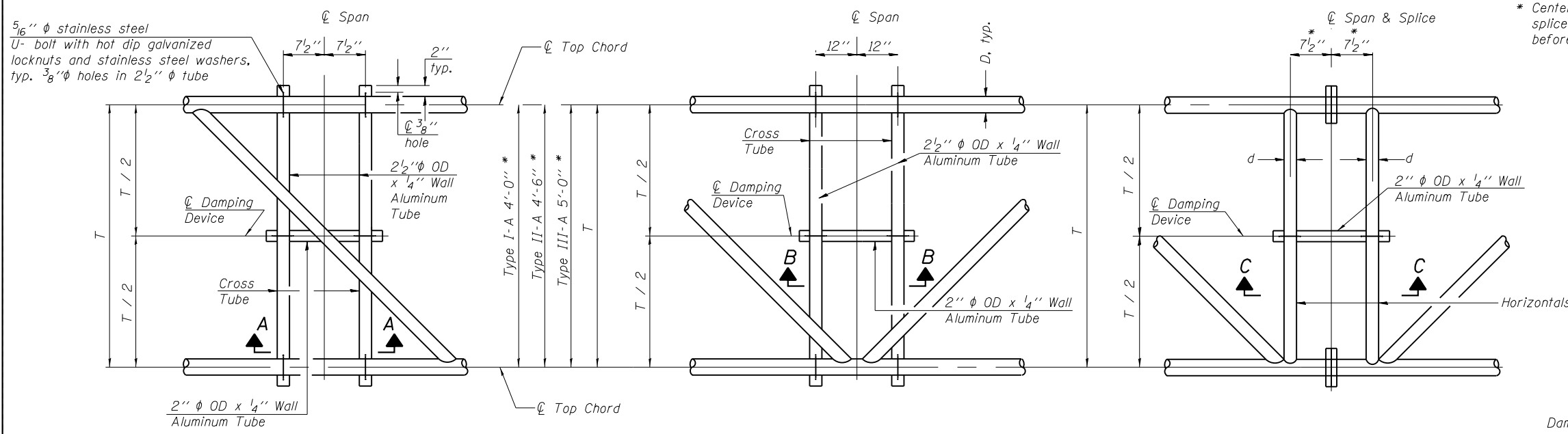
*R = D/2 + 1/32 at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)



* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
 ☉ Span between Panel Points

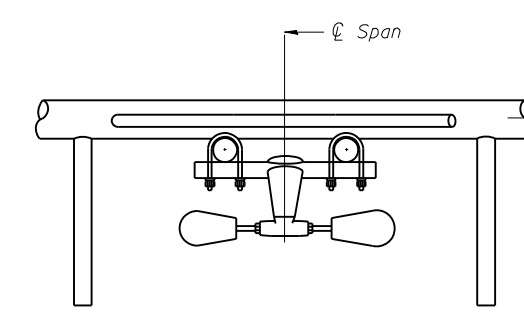
PLAN DETAIL "B"
 ☉ Span at Panel Point

PLAN DETAIL "C"
 ☉ Span at ☉ Chord Splice

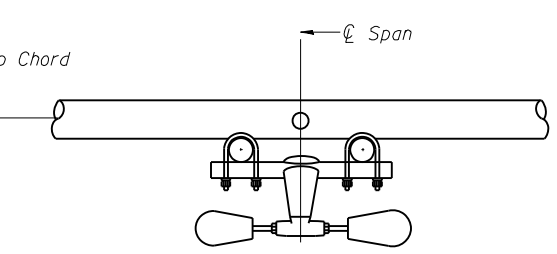
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

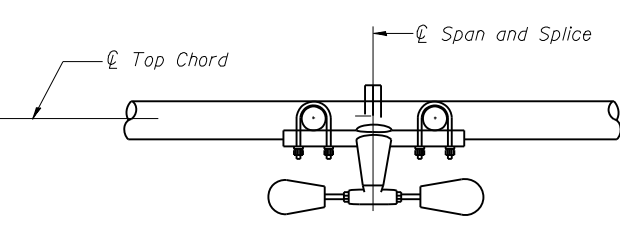
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



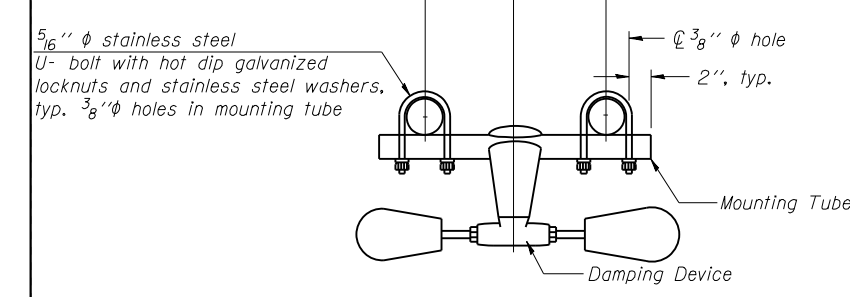
SECTION A-A



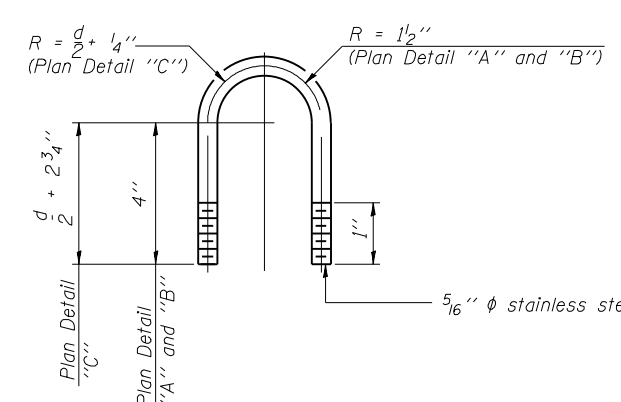
SECTION B-B



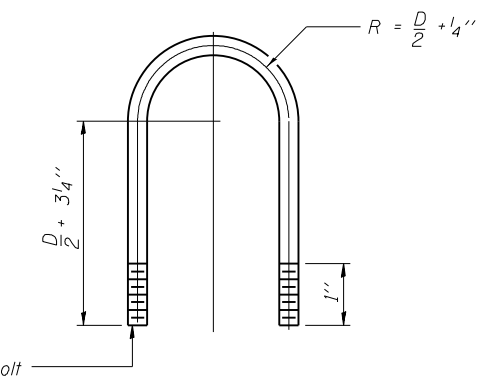
SECTION C-C



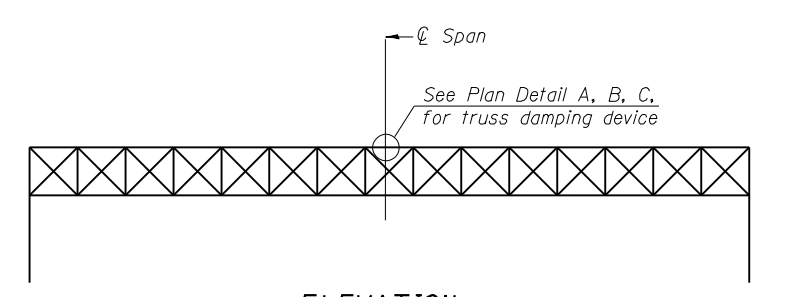
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

OS-A-D

6-1-12

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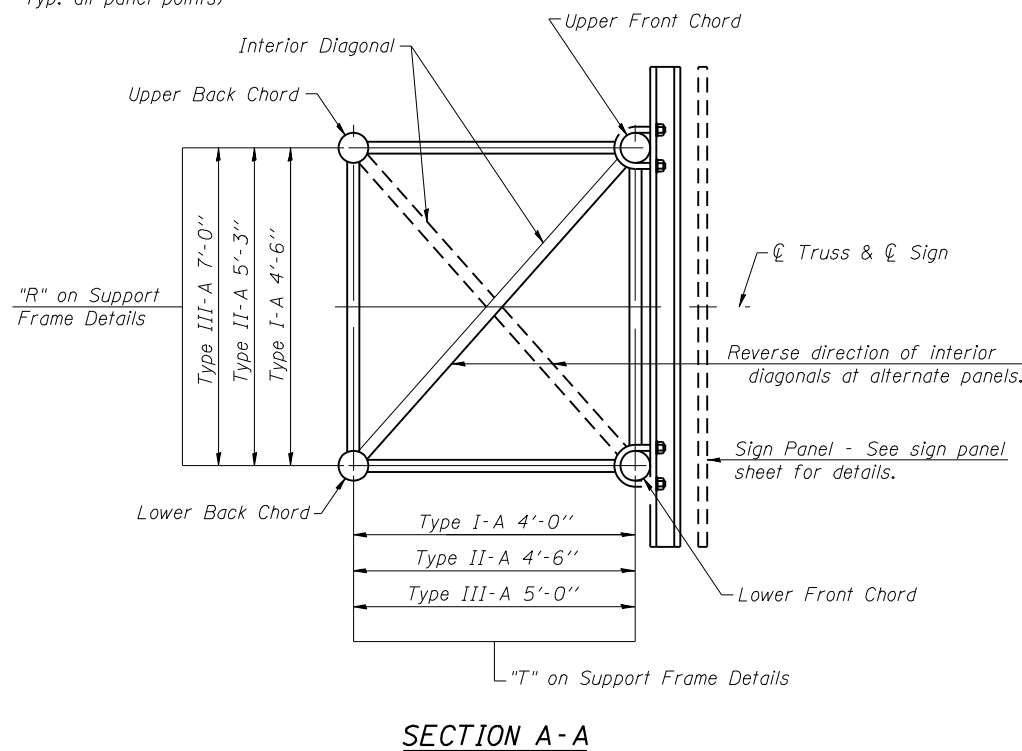
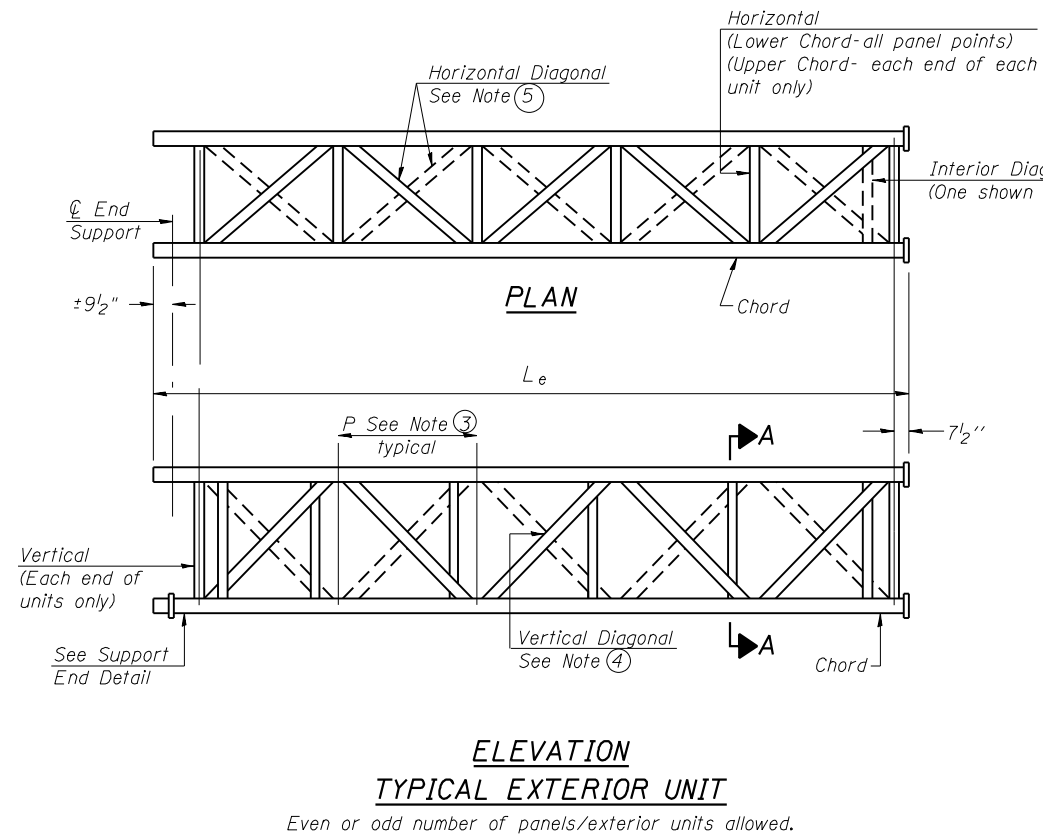
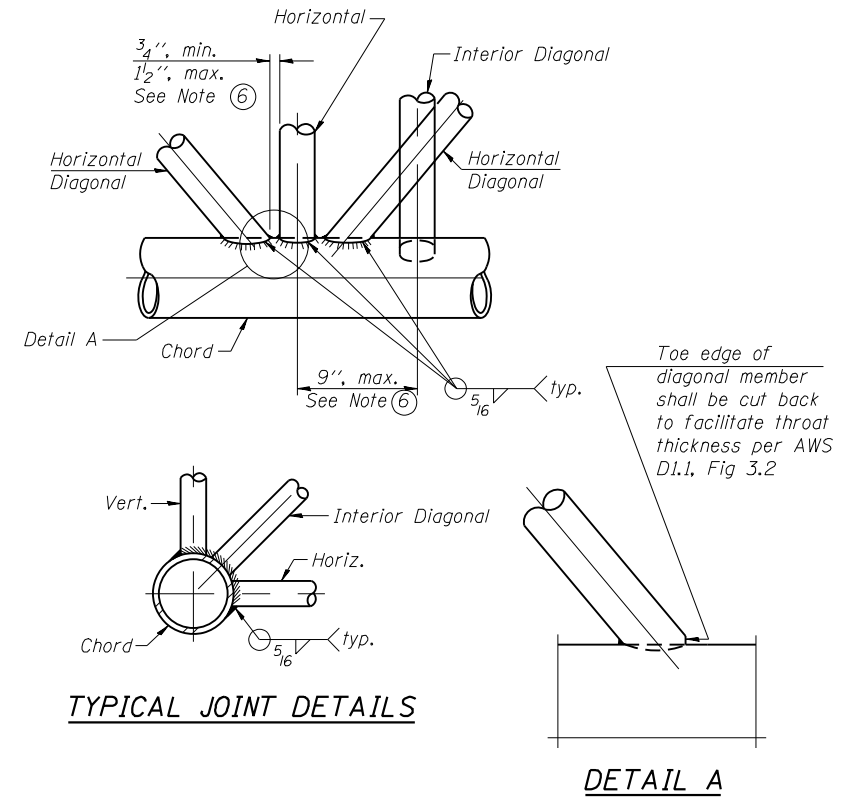
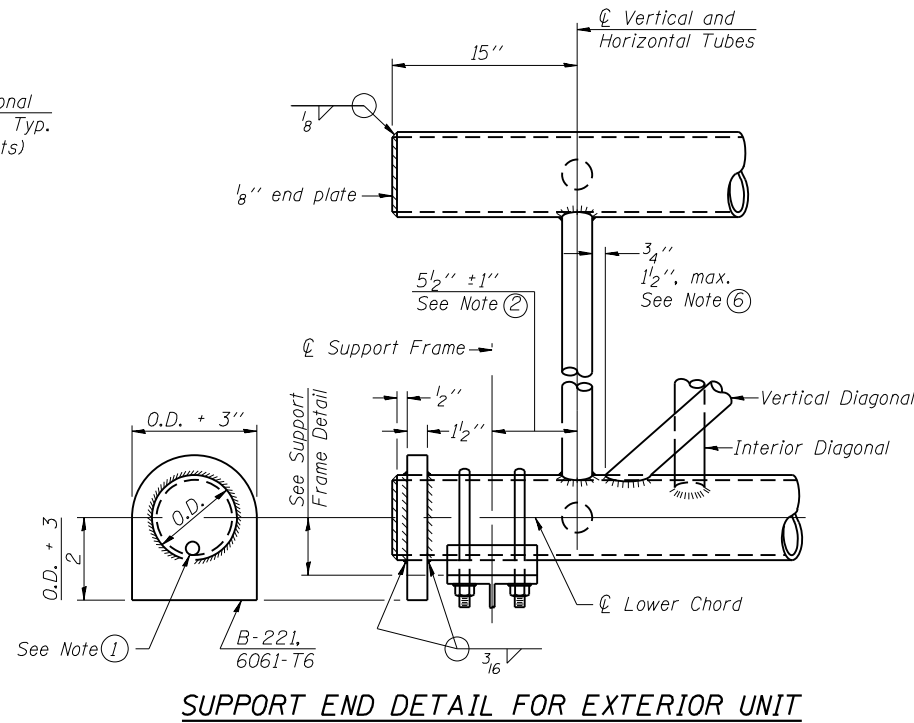
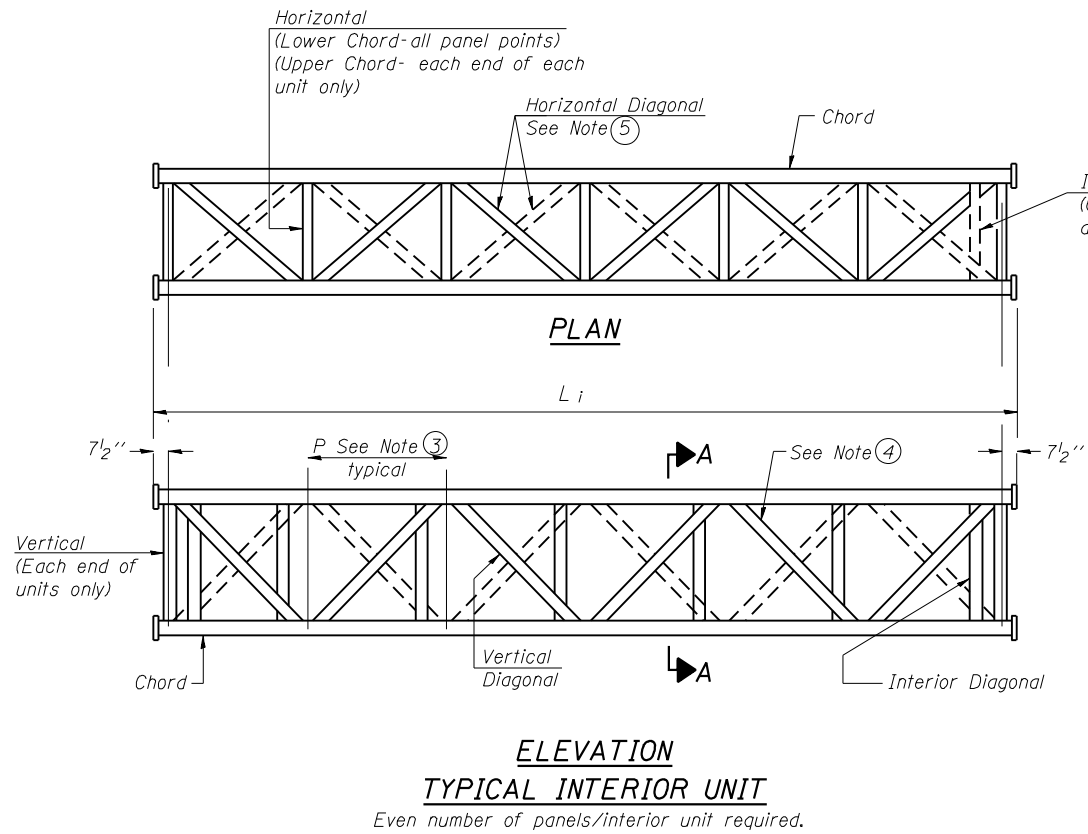
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PLOT SCALE = 20.0000' / 1"	DRAWN - LS	REVISED -
PLOT DATE = 5/20/2015	CHECKED - EKM	REVISED -
	DATE - 01/21/2015	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE DAMPING DEVICE

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	204
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

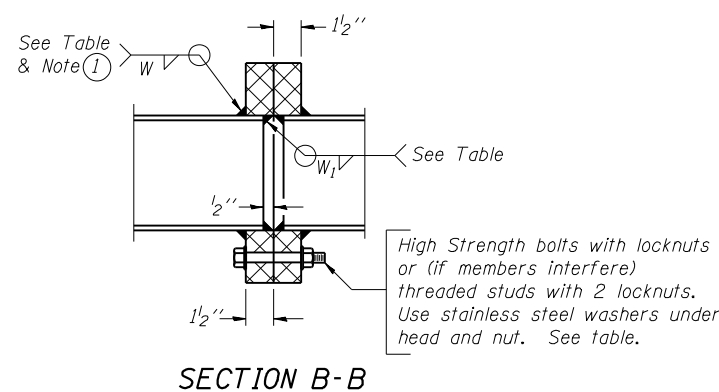


- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by $\pm 1"$ to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

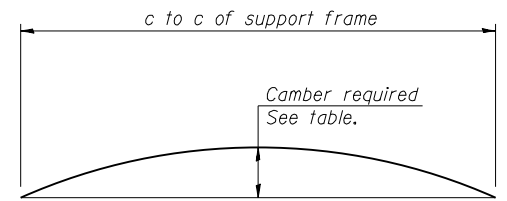
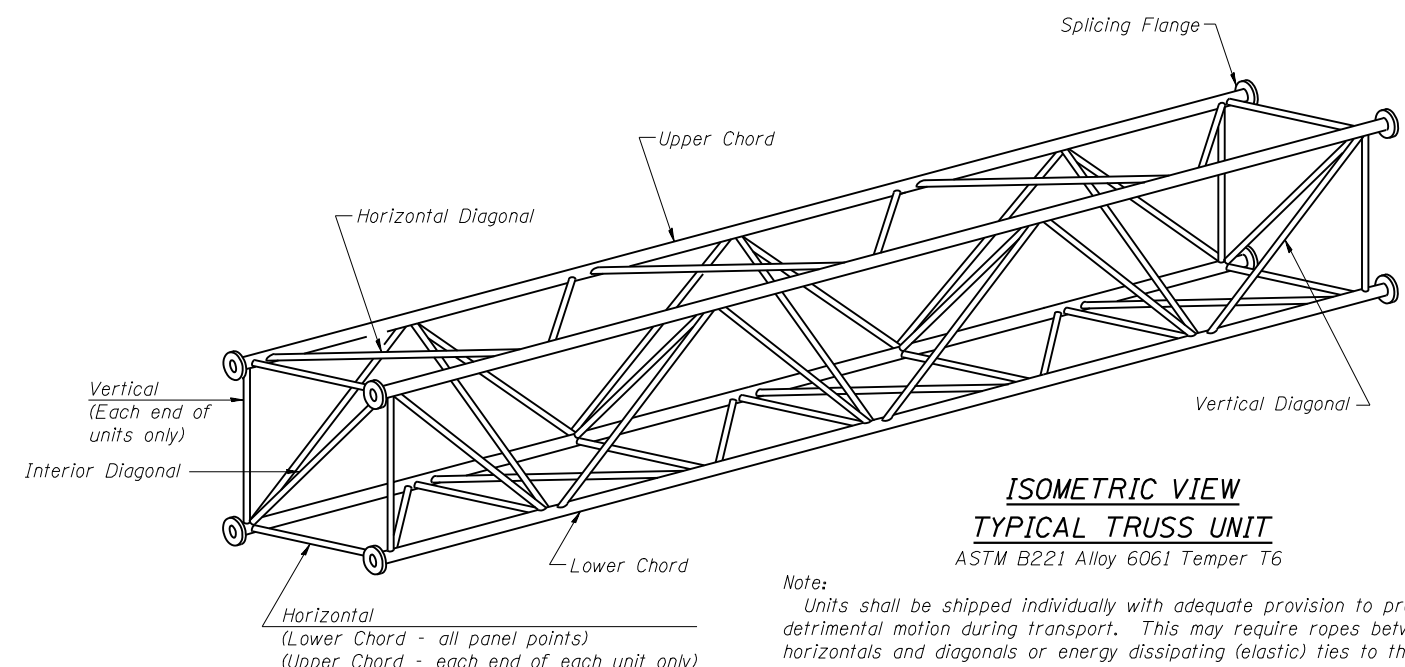
TRUSS UNIT TABLE

Structure Number	Station***	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _u)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W ₁		
ISO161190L000.8	10+00	III-A	6	34'-1 1/2"	5'-4 1/2"	1	6	33'-6"	5'-4 1/2"	7"	5/16"	3 1/4"	5/16"	2.3"	6	1"	7/16"	5/16"	11 1/2"	15"

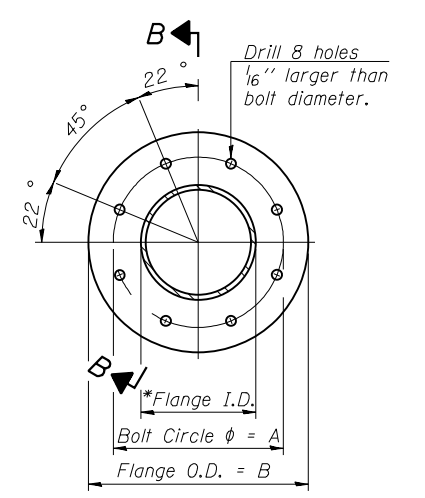
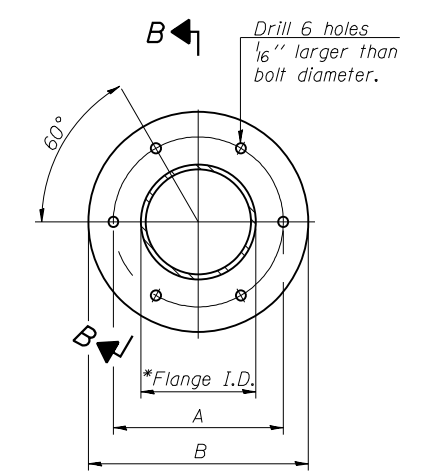
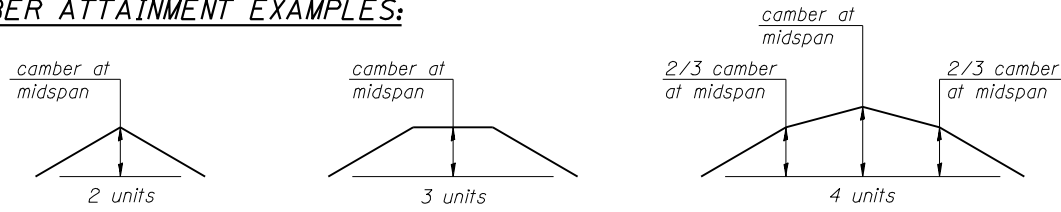
*** Sign shall be located 10 ft. East of the existing sign at MP 0.8 near Exit 1A.



① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



CAMBER ATTAINMENT EXAMPLES:



OS4-A-2 6-1-12

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USER NAME = mpell	DESIGNED - KVH	REVISED -
PLOT SCALE = 20.0000' / 1"	DRAWN - LS	REVISED -
PLOT DATE = 5/20/2015	CHECKED - EKM	REVISED -
	DATE - 01/27/2015	REVISED -

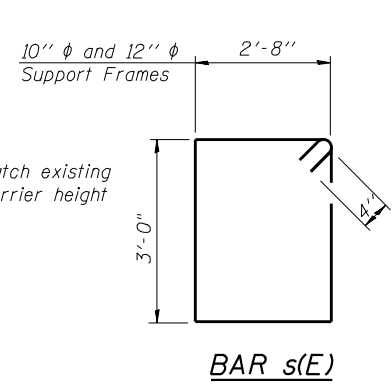
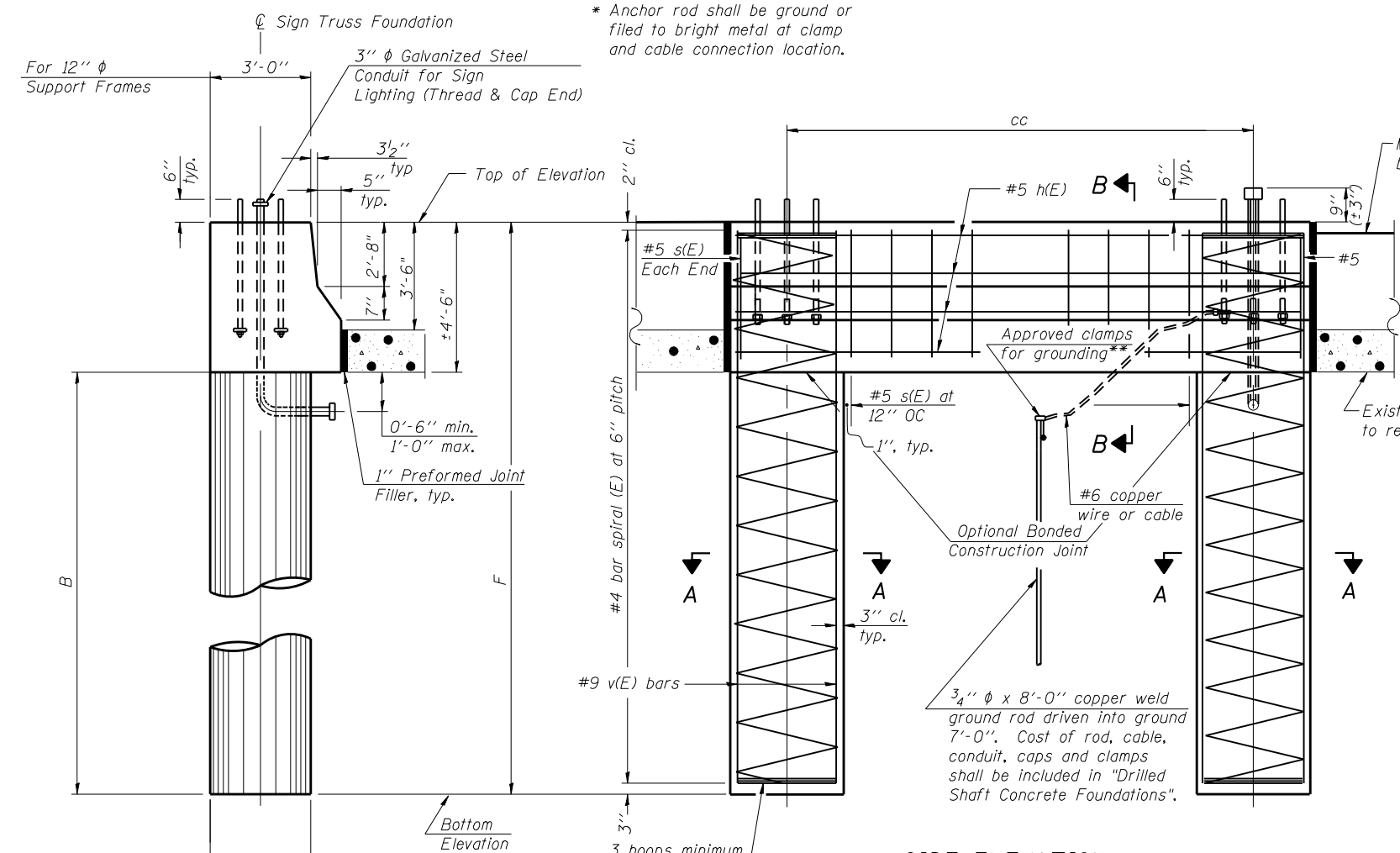
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	206
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = RFILES



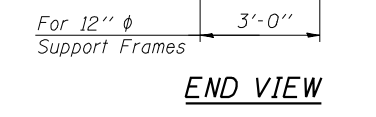
NOTES:
 The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.
 If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.
 *** Sign shall be located 10 ft. East of the existing sign at mp. 0.8 near Exit 1A.

Pipe Support Frames	cc	M	a	a/2
12"φ	9'-0"	12'-0"	1'-6"	9"

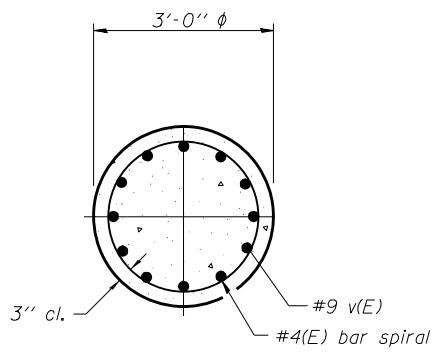
BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	14	#5	12'-0"	□
v(E)	24	#9	F less 0'-5"	—
#4(E) bar spiral - see Side Elevation				

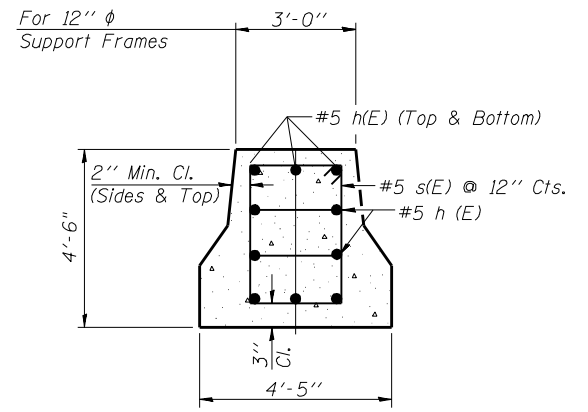
6" φ and 8" φ Support Frame
 10" φ and 12" φ Support Frame



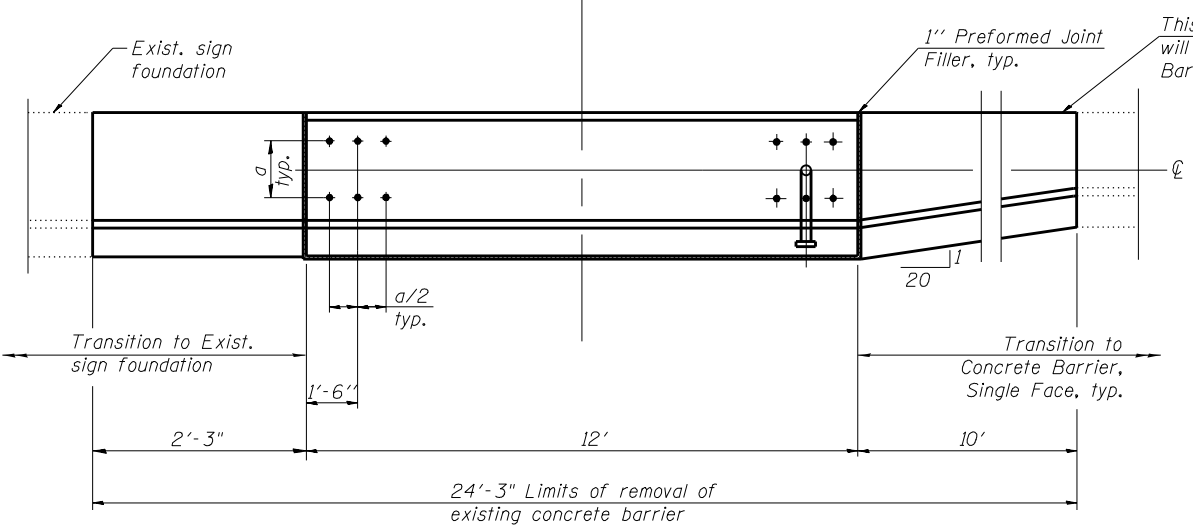
SIDE ELEVATION
 Concrete Foundation poured monolithically with no construction joint.



SECTION A-A



SECTION B-B



PLAN

Anchor bolts on exist. sign foundation shall be cut flush with top at concrete. Cost included with Concrete Barrier Remval.

Structure Number	Station***	Left Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	
ISO16190L000.8	10+00	655.50	633.00	18'	22'-6"	16.5

OS4-MED

8-21-13



USER NAME = mpell	DESIGNED - Kvh	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN - LS	REVISED -
PLOT DATE = 5/20/2015	CHECKED - EKM	REVISED -
	DATE - 01/21/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES MEDIAN SUPPORT FOUNDATION DETAILS				
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	207
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	—
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

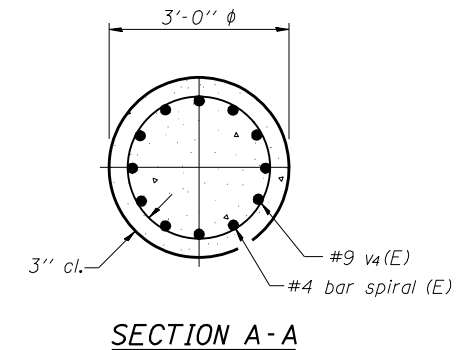
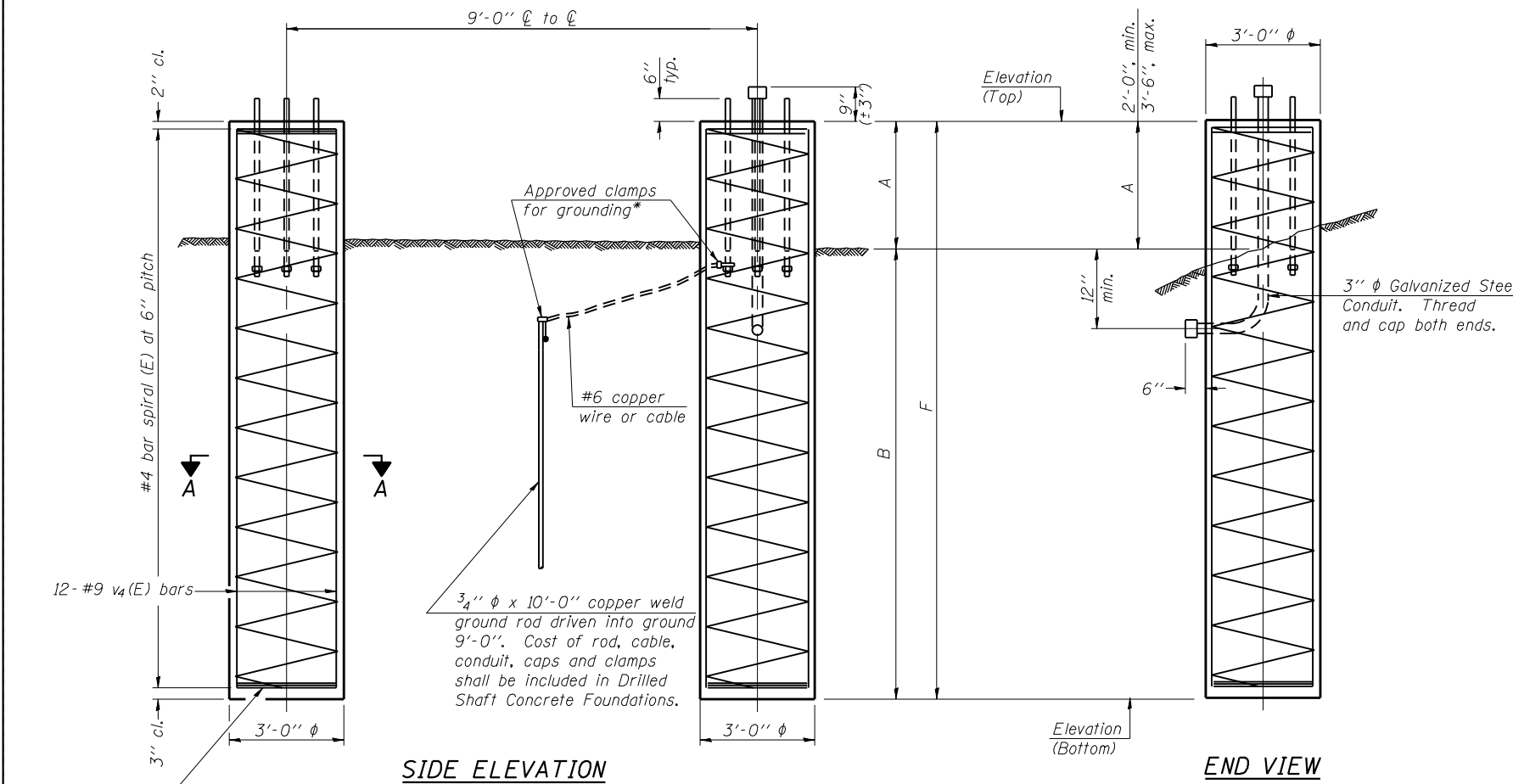
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

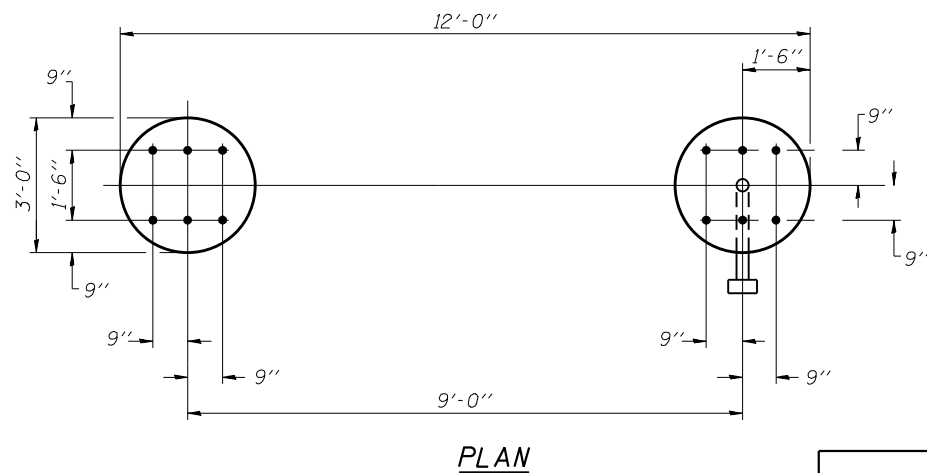


For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

*** Sign shall be located 10 ft. of the existing sign at MP 0.8 near Exit 1A.

DETAILS FOR 12" Ø SUPPORT FRAME TYPE III-A TRUSS



Structure Number	Station	Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	
15016190L000.8	10+00	650.08	628.58	3'-6"	18'	21'-6"	11.3

OS4-F4
COLLINS ENGINEERS

8-21-13

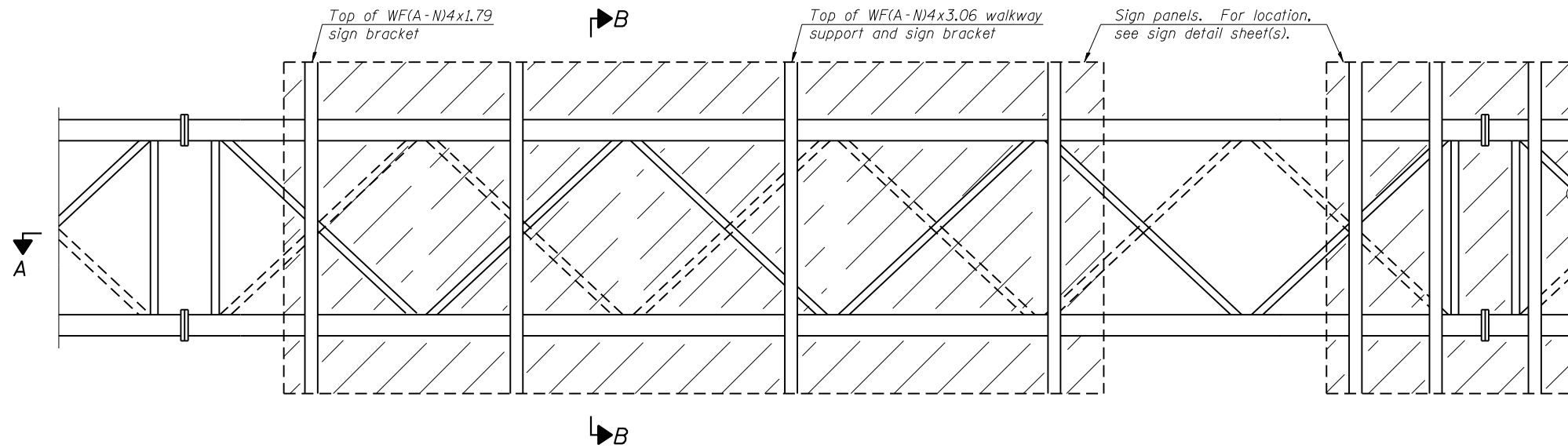
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	DATE - 01/27/2015	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

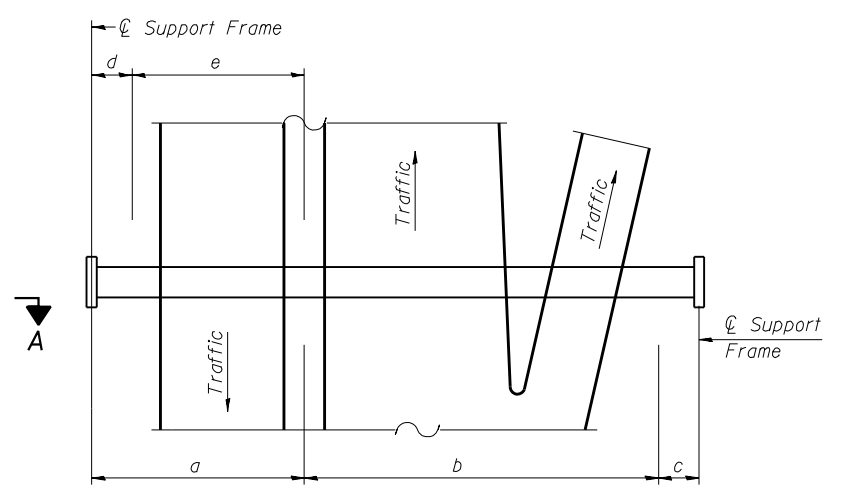
OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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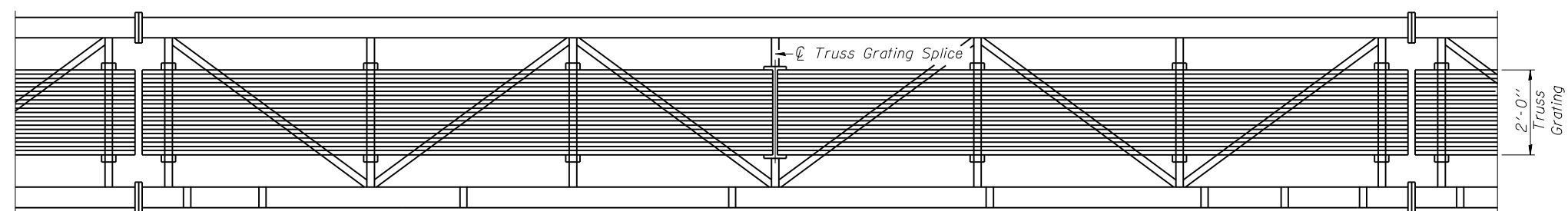
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	208
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL FRONT ELEVATION
 With lights and handrail omitted for clarity.
 For Section B-B, see Base Sheet OS-A-10.



PLAN
WALKWAY AND HANDRAIL SKETCH
 (Road plan beneath truss varies)



SECTION A-A
 Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
 Place all sign and walkway brackets as close to panel points as practical.
 Handrail joints, grating, and light support splices placed as needed.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses.
 Cost of truss grating is included in "Overhead Sign Structure".

Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

OS-A-9 6-1-12



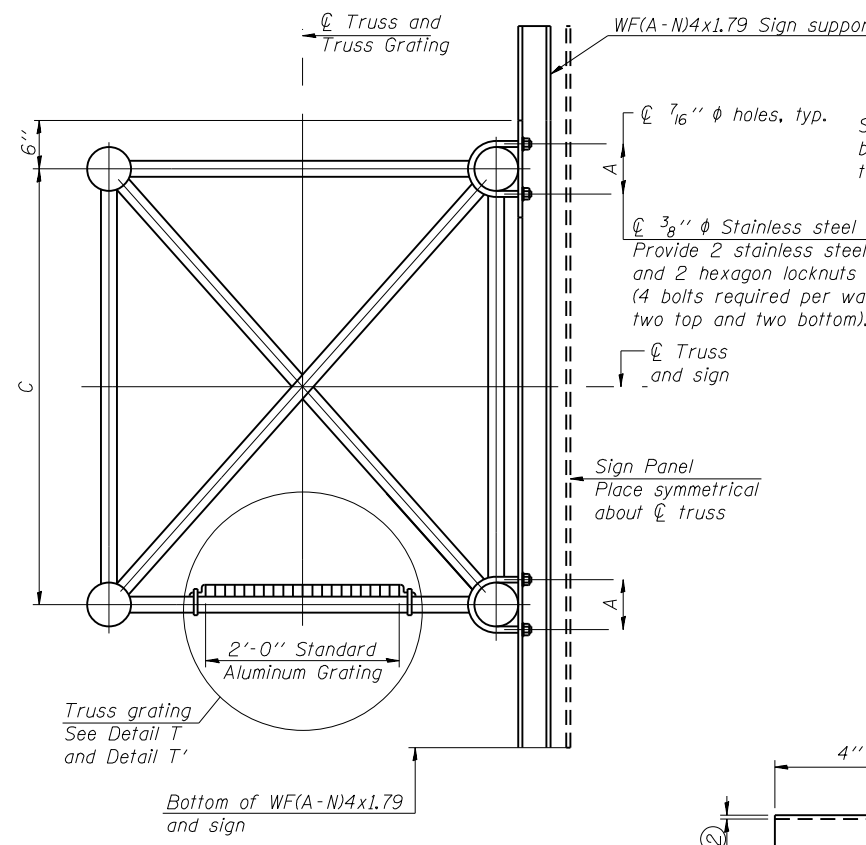
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	DATE - 01/27/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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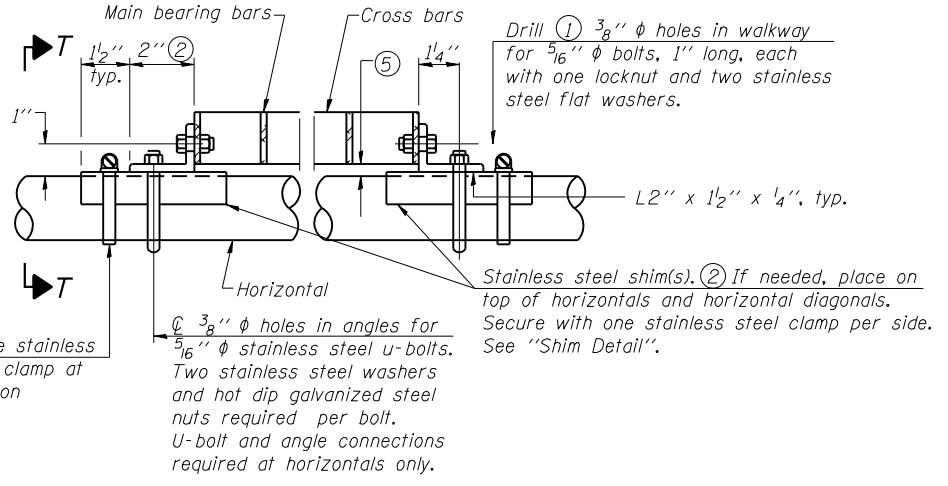
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CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



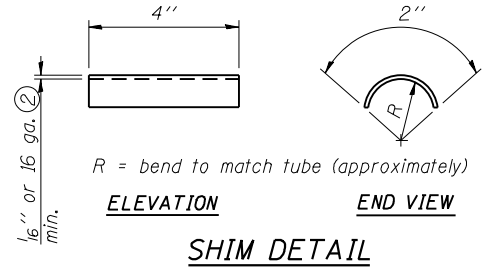
SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.

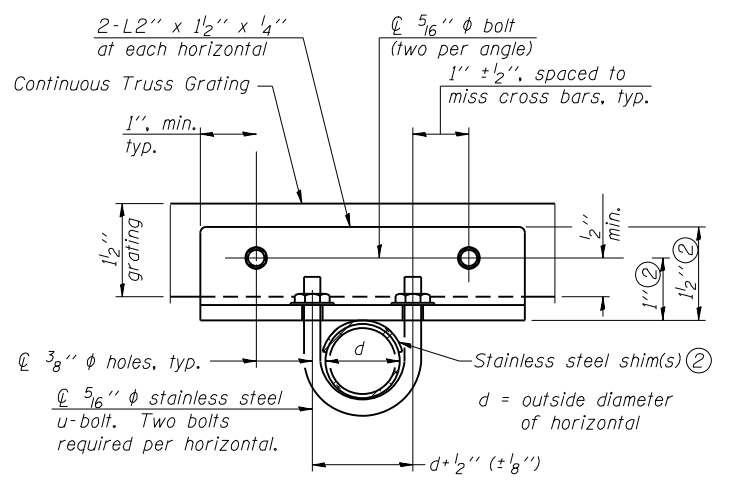
Provide 2 stainless steel washers and 2 hexagon locknuts per bolt. (4 bolts required per walkway bracket, two top and two bottom).



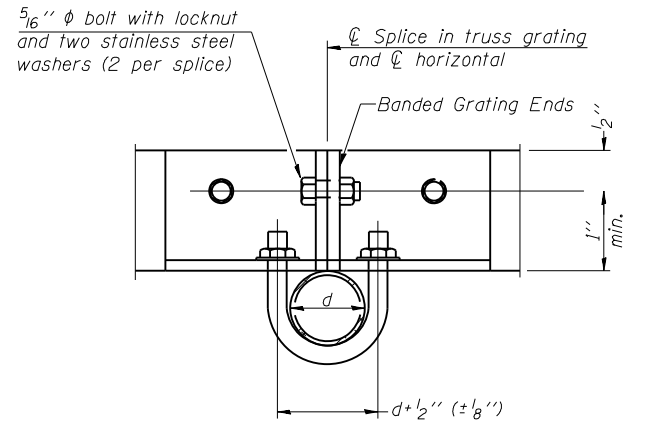
DETAIL T
(Continuous Truss grating)



SHIM DETAIL



SECTION T-T



SECTION T'-T'

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

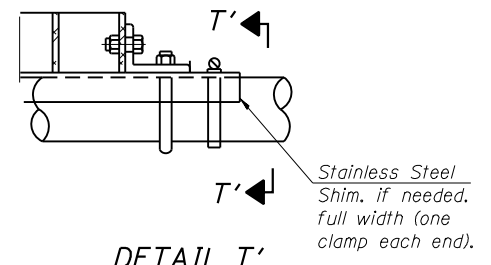
Main Bearing Bars shall be 3/16" x 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
Cross bars shall be 3/16" x 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1/2", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station***	A	C
IS0161190L000.8	10+00	7 1/2"	7'-0"

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
 - ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
 - ③ 1/2" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
 - ④ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- *** Sign shall be located 10 ft. East of the existing sign at MP 0.8 near Exit 1A.



DETAIL T'

(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

OS-A-10

6-1-12

COLLINS ENGINEERS

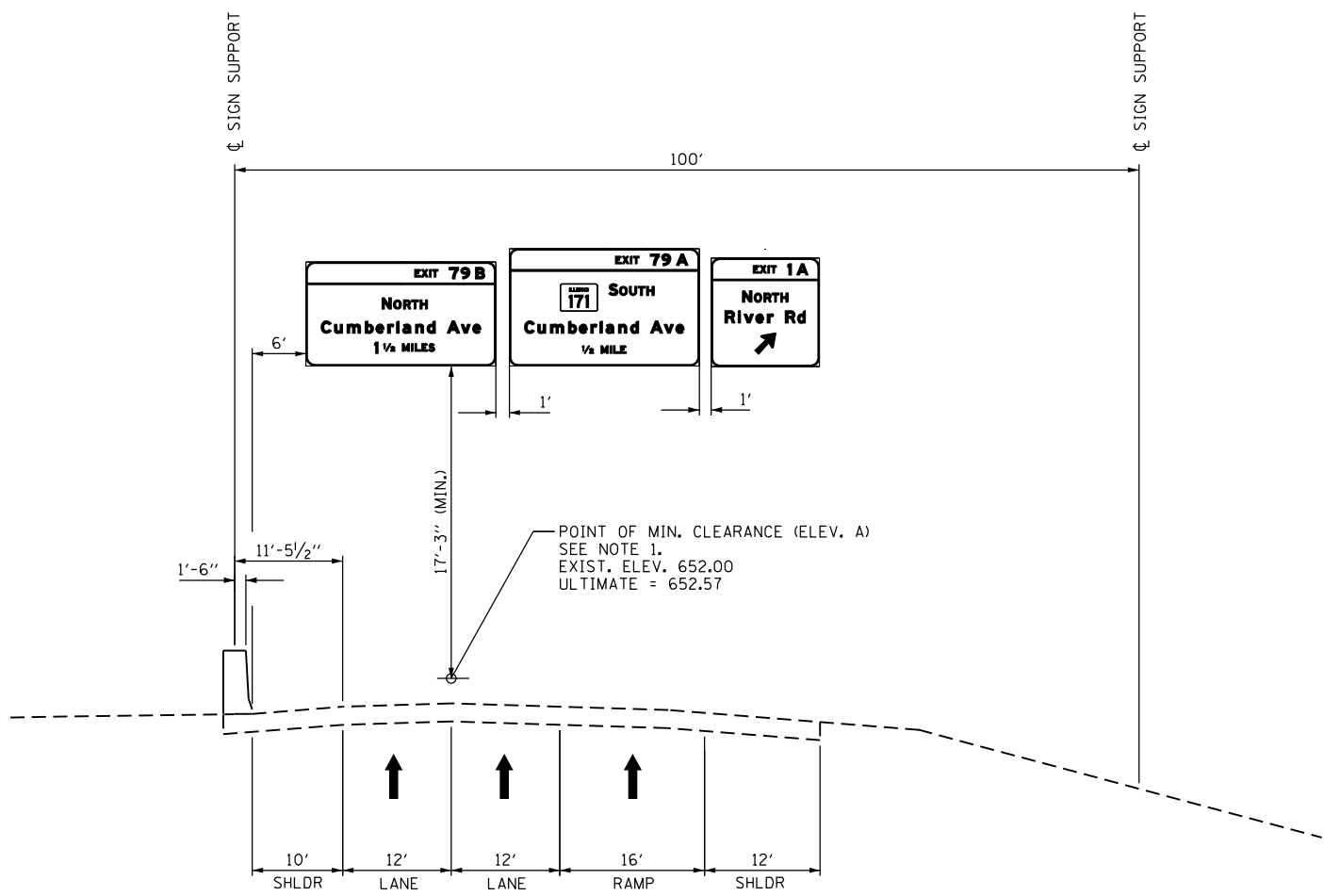
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	DATE - 01/27/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

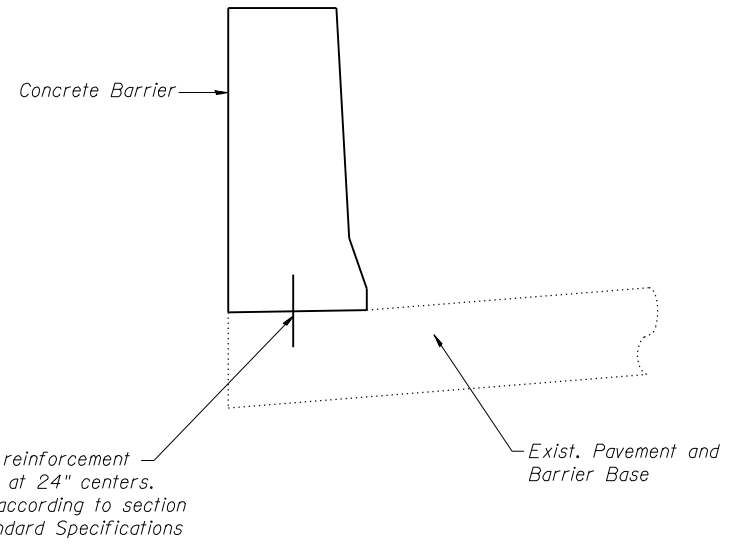
**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	210
CONTRACT NO. 60X56				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



EB I-190 MILE POST 0.8
EXIT 1A, PROPOSED SIGN TRUSS



**CONCRETE BARRIER TRANSITION
ATTACHMENT DETAIL**

NOTES:
The cost of reinforcement bars and their installation shall be considered included in the cost of the concrete barrier transition.

- NOTES:
- SIGN TRUSS DESIGNED TO ACCOMMODATE FUTURE WIDENING OF I-190.
 - MINIMUM VERTICAL CLEARANCE AT "ELEV. A" TO BE BASED UPON AN ULTIMATE PAVEMENT ELEVATION OF 652.57

FILE NAME = 8FILES



USER NAME = r9a11	DESIGNED - KVH	REVISED -
PLOT SCALE = 20,0000' / 1"	DRAWN - LS	REVISED -
PLOT DATE = 4/1/2016	CHECKED - EKM	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

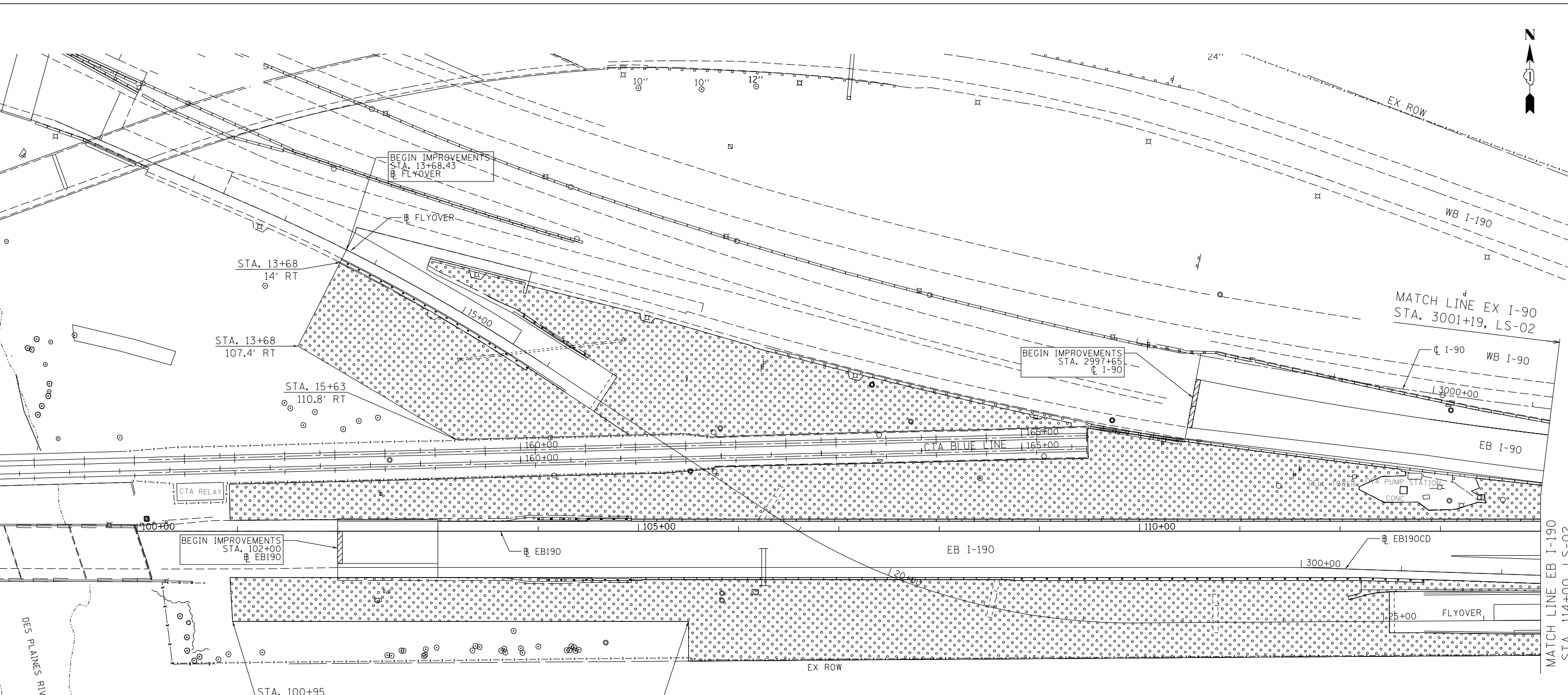
SIGN PANEL LAYOUT

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	211
CONTRACT NO. 60X56				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

FILE NAME: D:\m\hntb\56\hntb\2016\06\2016\LS-01\LS-01.dwg PROJECT: I-190 CUMBERLAND FLYOVER PROJECT CONTRACT: 60X56 CAAD SHEETS: D:\60X56\CAAD\Sheet\1and\01.dwg

DES PLAINES RIVER



LANDSCAPING LEGEND

SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

NOTES:

- PERMANENT SEEDING SHALL BE CLASS 2A SALT TOLERANT ROAD MIXTURE, ACCORDING TO ARTICLE 250.07
- FOR CLARITY, THE FLYOVER RAMP BRIDGE SUPER STRUCTURE IS NOT SHOWN.



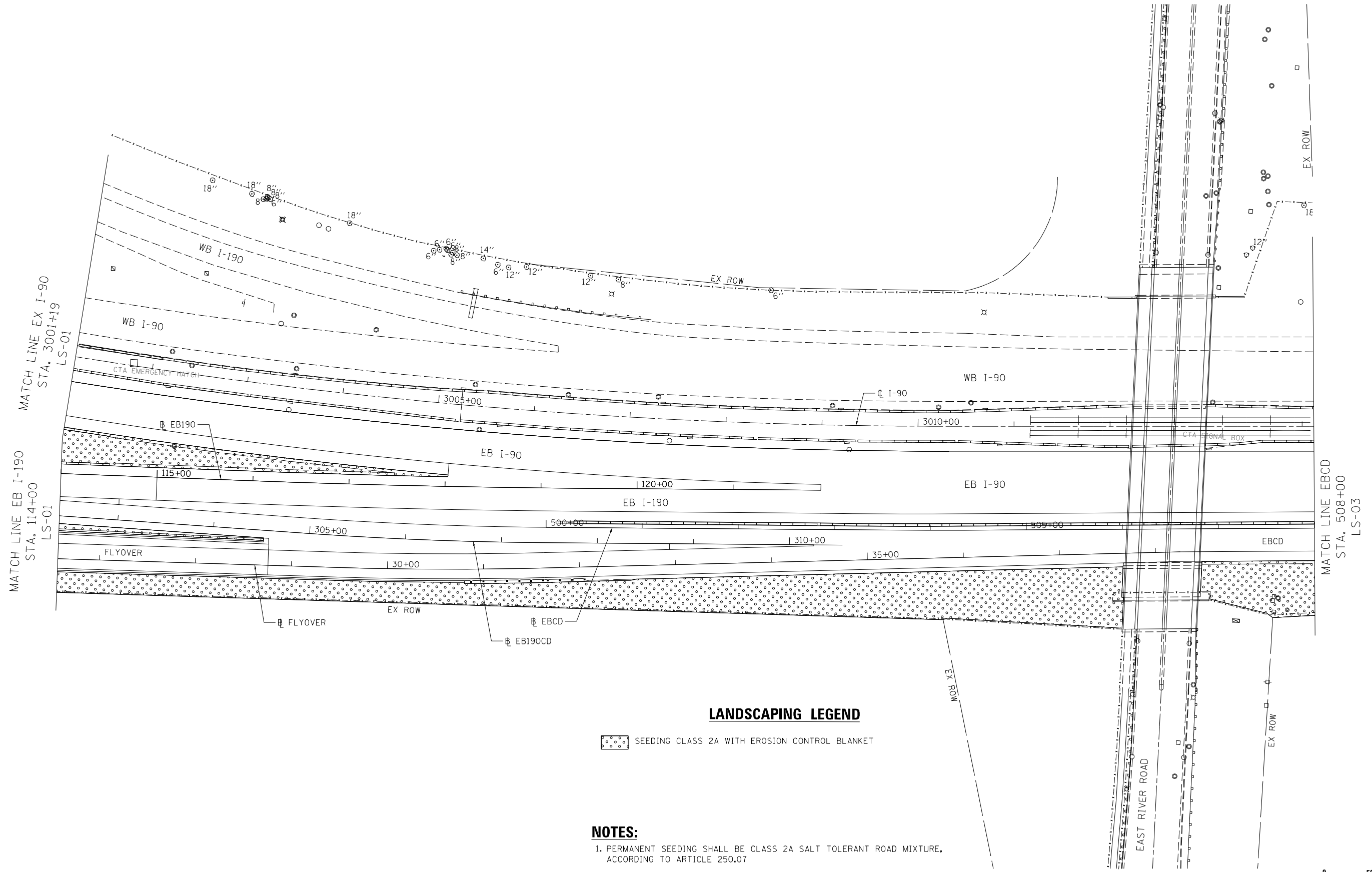
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PLOT SCALE = 1/80' = 1/8"	CHECKED - LLS	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN			
CUMBERLAND FLYOVER PROJECT			
SCALE: 1" = 50'	SHEET 1 OF 4 SHEETS	STA. 100+00.00 TO STA. 114+00.00	

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 212
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

LS-01

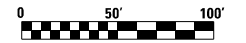


LANDSCAPING LEGEND

 SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

NOTES:

1. PERMANENT SEEDING SHALL BE CLASS 2A SALT TOLERANT ROAD MIXTURE, ACCORDING TO ARTICLE 250.07



FILE NAME: \\hntb\p0556\hntb\p0556\Documents\Chicago\Projects\190\1-190_Cumberland\Land\Design\CADD\Sheets\190\LS-02.dgn



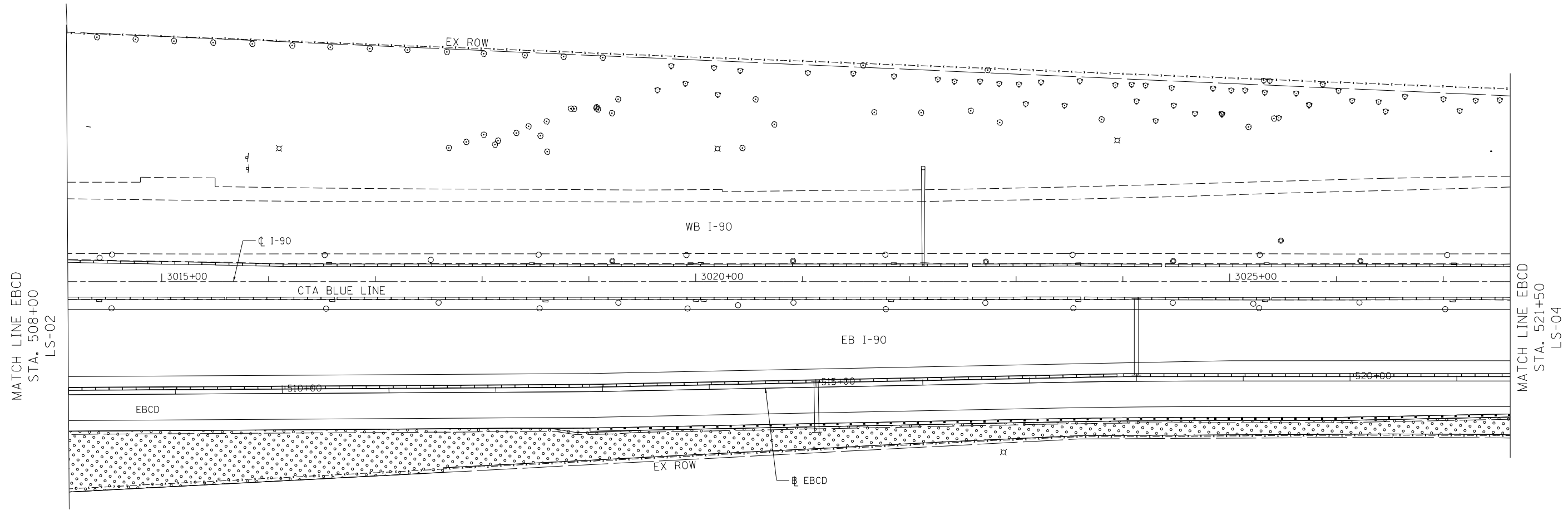
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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPE PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 114+00.00 TO STA. 508+00.00

		LS-02	
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS
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		SHEET NO. 213	
		CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT			

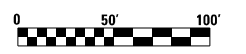


LANDSCAPING LEGEND

 SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

NOTES:

1. PERMANENT SEEDING SHALL BE CLASS 2A SALT TOLERANT ROAD MIXTURE, ACCORDING TO ARTICLE 250.07



FILE NAME: c:\inetpub\wwwroot\hntb.com\Projects\190\CumberlandFlyover\Design\CADD\Contract\60X56.sht; L:190_CumberlandLand\Design\CADD\Contract\60X56.sht; L:190_CumberlandLand\Design\CADD\Contract\60X56.sht



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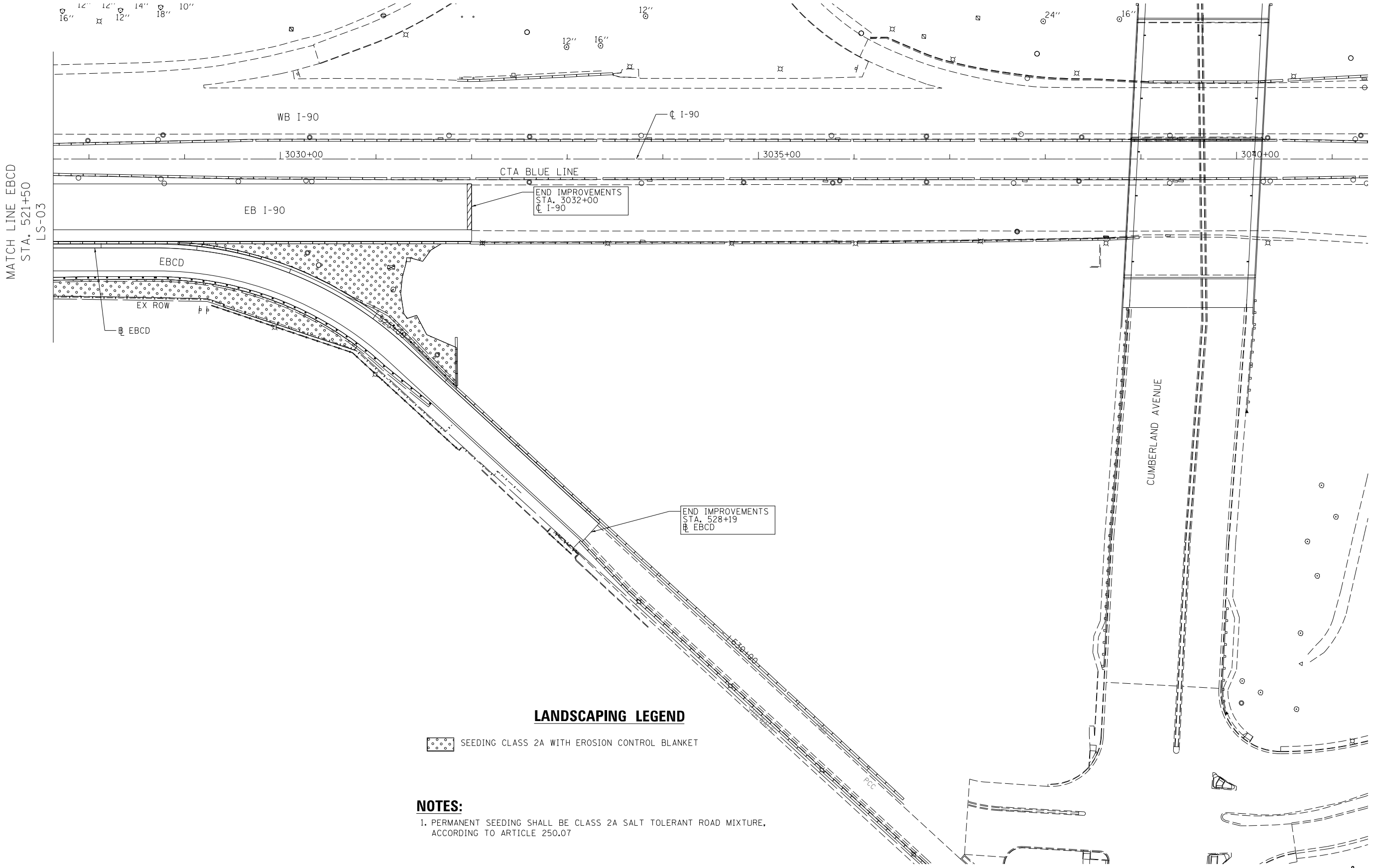
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. 508+00.00 TO STA. 521+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X56				ILLINOIS FED. AID PROJECT

LS-03

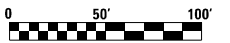


LANDSCAPING LEGEND

 SEEDING CLASS 2A WITH EROSION CONTROL BLANKET

NOTES:

- 1. PERMANENT SEEDING SHALL BE CLASS 2A SALT TOLERANT ROAD MIXTURE, ACCORDING TO ARTICLE 250.07



FILE NAME: \\hntb\p056\hntb\p056\hntb\p056\Documents\Chicago\Projects\2012\1-190_Cumberland\Land\Design\CADD_Sheets\060556\CADD_Contract_60X56_sht-1_land-04.dgn



USER NAME = mkosir	DESIGNED - SA	REVISED -
	DRAWN - RM	REVISED -
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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. 521+50.00 TO STA. 528+19.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	215
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

LS-04

INDEX OF SHEETS

E-01 - E-24 IDOT LIGHTING PLANS
E-25 - E-32 TOLLWAY LIGHTING PLANS

DISTRICT 1 DETAILS

BE-205 LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA *
BE-301 LIGHT POLE FOUNDATION - 40 TO 47 1/2' M.H. 15' BOLT CIRCLE
BE-400 LIGHT POLE ALUMINUM 47'-6" MOUNTING HEIGHT
BE-410 DAVIT LIGHT POLE 47'-6" MOUNTING HEIGHT
BE-506 HIGH MAST LIGHT TOWER 120 FT TO 140 FT FOUNDATION DETAIL
BE-701 LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702 MISC. ELECTRICAL DETAILS - SHEET A
BE-800 TEMPORARY LIGHT POLE DETAILS
BE-801 TEMPORARY AERIAL CABLE INSTALLATION
BE-900 SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS

* BE-205 IS INCLUDED FOR REFERENCE ONLY. INSTALLATION OF A NEW IDOT LIGHTING CONTROLLER IS NOT INCLUDED IN THIS CONTRACT.

ABBREVIATIONS

AMP AMPERE
AWG AMERICAN WIRE GAUGE
BC BOLT CIRCLE
C CONDUIT
DIA DIAMETER
GRD GROUND
HDPE HIGH DENSITY POLYETHYLENE
HPS HIGH PRESSURE SODIUM
ITS INTELLIGENT TRANSPORTATION SYSTEMS
JB JUNCTION BOX
MA MAST ARM
MH MOUNTING HEIGHT
N NEUTRAL
PH PHASE
PVC POLYVINYL CHLORIDE
RGS RIGID GALVANIZED STEEL
UNO UNLESS NOTED OTHERWISE
USE UNDERGROUND SERVICE ENTRANCE
W WATTS
XLP CROSS-LINKED POLYETHYLENE

LIGHTING GENERAL NOTES

- PRIOR TO ANY WORK IN FIELD, THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLE AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO AID IN THIS TASK.
- THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH WOULD AFFECT HIS WORK UNDER THIS CONTRACT FOR THE OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
- NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR MAY ADJUST POLE LOCATIONS UP TO 10' IN ANY DIRECTION EXCEPT CLOSER TO THE ROAD, IN ORDER TO ADJUST FOR FIELD CONDITIONS.
- ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH NATIONAL ELECTRICAL CODE EVEN THOUGH EVERY DETAIL OF REQUIREMENTS IS NOT SPECIFIED OR SHOWN.
- GROUNDED OF POLE INCLUDING GROUND ROD, CONDUCTOR, LUGS INCLUDING EXOTHERMIC WELD TO GROUND ROD SHALL NOT BE PAID SEPARATELY. COST MUST BE INCLUDED IN UNIT PRICE OF EACH POLE.
- ALL UNDERGROUND WIRING SHALL BE 30 INCHES MINIMUM BELOW GRADE.
- THE NEW ELECTRICAL MATERIALS MUST MEET REQUIREMENTS OF STANDARDS BY THE FOLLOWING ORGANIZATIONS.
- NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. (NEMA)
- INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS. (IEEE)
- ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. (IES)
- AMERICAN ASSOCIATION OF TRANSPORTATION OFFICIALS. (AATO)
- U.S. DEPARTMENT OF TRANSPORTATION. (U.S.D.O.T)
- UNDERWRITERS LABORATORIES. (UL)
- AMERICAN STANDARD INSTITUTE. (ASI)
- INSULATED POWER AND CABLE ENGINEERS ASSOCIATION. (IPCEA)
- NATIONAL ELECTRICAL SAFETY CODE (NEC)
- NATIONAL ELECTRICAL CODE 2011
- AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IESNA RP-8)
- ALL LIGHT POLES EXCEPT POLES MOUNTED ON CONCRETE BARRIER WALL/BRIDGE PARAPET WALL/ABUTMENT WALL/BEHIND GUARD RAIL, SHALL HAVE AASHTO APPROVED FRANGIBLE TYPE BREAKAWAY TRANSFORMER BASE.
- ALL SPLICING MUST BE IN POLE BASES OR JUNCTION BOXES ABOVE GRADE WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS.
- LIGHT POLES INSTALLED BEHIND GUARDRAIL OR BARRIER WALL SHOULD HAVE AT LEAST 3 FEET SETBACK FROM THE BACK OF GUARDRAIL OR WALL OR AS OTHERWISE DIRECTED BY THE ENGINEER.
- EACH LIGHTING UNIT SHALL BE CONTROLLED BY THE INDICATED LIGHTING CONTROLLER. NO LIGHT SHALL BE INDIVIDUALLY CONTROLLED BY PHOTOCELL.
- COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING ROADWAY FOR THIS WORK, AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, REINSTALLING, REPAIRING, OR REPLACING EQUIPMENT.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION AND REMODELING WORK. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING ALL RELOCATIONS AND REMOVALS REQUIRED IN THIS CONTRACT. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXISTING CONDITIONS AND COORDINATE AS REQUIRED.
- ITS INFRASTRUCTURE WILL BE ATTACHED TO SOME TEMPORARY LIGHTING WOOD POLES, CONTRACTOR SHALL COORDINATE WITH THE ITS PLANS TO THE DETERMINE WHEN THESE POLES WILL BE REMOVED.

PROPOSED LIGHTING GENERAL NOTES

- ALL NEW UNIT DUCT, CONDUIT, JUNCTION BOXES AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDER DRAINS.

TEMPORARY LIGHTING GENERAL NOTES

- THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, AND UTILITY IMPACTS. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED; APPROVAL DOESN'T RELIEVE CONTRACTOR OF RESPONSIBILITY FOR CONFLICTS.
- THE TEMPORARY LIGHT POLE SETBACK FROM THE FURTHEST EDGE OF TRAVEL PAVEMENT (PER MOT PLANS) SHALL BE 18 FT MIN. UNLESS OTHERWISE NOTED BY OFFSET FROM EXISTING EDGE OF PAVEMENT FOR THAT STAGE.
- THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TAP DEVICE.
- THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY REMOVALS. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER; AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON.
- WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS.
- UNLESS NOTED OTHERWISE TEMPORARY UNDERGROUND CONDUCTORS SHALL BE 3-1/C*2, 1-1/C*4 GND; XLP-TYPE USE, COPPER; TEMPORARY OVERHEAD CONDUCTORS SHALL BE 3-1/C*2 AL WITH MESSENGER WIRE.
- WHENEVER POSSIBLE THE CONTRACTOR SHALL INSTALL TEMPORARY LIGHTING UNITS IN THE PRESTAGE. TEMPORARY LIGHTING MUST BE FULLY OPERATIONABLE BEFORE THE EXISTING LIGHTING ON I-90 MAY BE REMOVED.
- EVERY THIRD TEMPORARY LIGHTING POLE SHALL BE FURNISHED WITH A GROUND ROD CONNECTION. THIS GROUND ROD IS NOT SHOWN IN PLAN. 5/8" X 10' COPPER CLAD STEEL GROUND ROD, #2 BARE TINNED COPPER DOWN CONDUCTOR, CABLE GUARD TO 10' ABOVE GRADE ARE INCLUDED IN THE TEMPORARY LIGHTING WOOD POLE PAY ITEM. WHERE THERE ARE THREE TEMPORARY POLES CONNECTED TOGETHER, INSTALL A GROUND ROD AT BACK POLE. GROUNDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE TEMPORARY WOOD POLE.
- IN ACCORDANCE WITH NEC 225.18 AERIAL CONDUCTOR TO MAINTAIN 18' CLEARANCE ABOVE ROAD SURFACE AT ALL TIMES.
- CONTRACTOR SHALL TURN OFF CIRCUITS AT THE CONTROLLER BEFORE WORKING ON EXISTING LIGHTING UNITS. CONTRACTOR MUST COORDINATE A POWER OUTAGE WITH COMED AT LEAST TWO WEEKS PRIOR TO OUTAGE.
- CONTRACTOR SHALL INSTALL NEW 400W HPS, TYPE III LUMINAIRES ON EXISTING I-90 WESTBOUND LIGHT TOWERS AS SHOWN ON PLANS. THESE LUMINAIRES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION PRIOR TO THE INSTALLATION OF TEMPORARY LIGHT POLES. THE INSTALLATION OF THESE LUMINAIRES SHALL BE INCLUDED IN THE PAY ITEM 82105600, LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400W. INSTALLATION OF NEW LUMINAIRES SHALL INCLUDE THE REMOVAL OF THE EXISTING LUMINAIRES. ALL EXISTING WB LIGHT TOWER LUMINAIRES SHALL BE DISPOSED OF AT THE CONTRACTORS EXPENSE.

LIGHTING REMOVAL GENERAL NOTES

- BRANCH CIRCUIT WIRING FOR EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED AT SOURCE AND REMOVED. REMOVAL OF EXISTING WIRING IS INCLUDED IN THE REMOVAL OF EXISTING EQUIPMENT.
- ALL EXISTING EQUIPMENT THAT ARE TO BE REMOVED SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- LOCATIONS SELECTED FOR COLLECTION OF DEBRIS AND/OR STORAGE OF EQUIPMENT SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.
- THE REMOVAL OF THE EXISTING CABLE DUCT SHALL BE INCLUDED IN ROADWAY CONSTRUCTION.
- TEMPORARY LIGHTS SHALL BE REMOVED AFTER ALL PROPOSED LIGHT POLES HAVE BEEN INSTALLED AND FULLY FUNCTIONAL OR AS DIRECT BY ENGINEER. REMOVAL OF TEMPORARY LIGHTING UNIT SHALL BE AT NO ADDITIONAL COST TO THIS CONTRACT. REMOVAL WILL INCLUDE ALL ITEMS SUCH AS LUMINAIRES, MAST ARMS, AERIAL CABLES, WOOD POLES, CABLE DUCTS, FOUNDATIONS, AND MOUNTING HARDWARES.
- EXISTING LIGHT POLES TO BE REMOVED ONLY AFTER TEMPORARY LIGHTING IS INSTALLED AND ENERGIZED.

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STATE OF ILLINOIS
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















ELECTRICAL SHEET INDEX, IDOT LIGHTING
GENERAL NOTES AND ABBREVIATIONS

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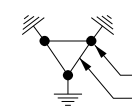

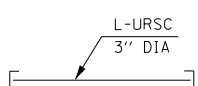
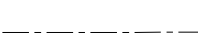





F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	216
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

E-01

IDOT LEGEND

	PROPOSED LIGHTING UNIT 47.5 FT MH ALUMINUM POLE, 15 FT DAVIT ARM, LUMINAIRE M-C-III 400W HPS, AND LUMINAIRE SAFETY CABLE ASSEMBLY INCLUDING FOUNDATION
	PROPOSED LIGHT TOWER, 120 FT. MOUNTING HEIGHT, SIX LUMINAIRES MC-III, 400W HPS INCLUDING FOUNDATION TOWER HANDHOLE ORIENTATION
	PROPOSED LIGHT TOWER, 120 FT. MOUNTING HEIGHT, TEN LUMINAIRES MC-III, 400W HPS INCLUDING FOUNDATION TOWER HANDHOLE ORIENTATION
	PROPOSED UNDERPASS LUMINAIRE, M-C-IV 100W HPS
	PROPOSED UNDERPASS LUMINAIRE, M-C-IV 70W HPS
	EXISTING LIGHT TOWER TO REMAIN
	EXISTING LIGHT TOWER TO BE REMOVED INCLUDING FOUNDATION
	EXISTING LIGHT TOWER WITH PROPOSED LUMINAIRE MC-III 400W HPS (SEE TEMPORARY LIGHTING GENERAL NOTE 11)
	EXISTING LIGHT UNIT
	EXISTING STANDARD LIGHT UNIT TO BE REMOVED, INCLUDING FOUNDATION
	PROPOSED TEMPORARY LIGHTING UNIT 1000W, HIGH MAST, 240V, MCII HPS, 15 FT MA, 80 FT MH ON 100 FT. WOOD POLE, CLASS 2
	PROPOSED TEMPORARY LIGHTING UNIT 1000W, HIGH MAST, 240V MCII HPS, 15 FT MA, TWIN ARM, 80 FT MH ON 100 FT. WOOD POLE, CLASS 2
	EXISTING ELECTRICAL JUNCTION BOX
	ELECTRICAL JUNCTION BOX 18" X 12" X 6" ATTACHED TO STRUCTURE
	ELECTRICAL JUNCTION BOX 12" X 10" X 6" ATTACHED TO STRUCTURE
	ELECTRICAL JUNCTION BOX 6" X 6" X 4" ATTACHED TO STRUCTURE

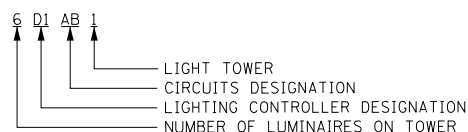
IDOT LEGEND CONT'D

	GROUND FIELD FOR CONTROLLERS GROUND RODS 5/8" x 10'-0" #2/0 AWG BARE COPPER WIRE
	GROUND ROD 5/8" DIA. X 10'
	3" RIGID GALVANIZED STEEL CONDUIT SLEEVE BELOW PAVEMENT L-LENGTH U-UNDERGROUND R-RIGID S-STEEL C-CONDUIT
	UNIT DUCT, 1 1/4" DIA POLYETHYLENE, SCH-40 600V, 3-1/C #2 & 1/C #4 GROUND (XLP-TYPE USE), (UNLESS NOTED OTHERWISE)
	AERIAL CABLE, 3-1/C #2, ALUMINIUM, WITH MESSENGER WIRE
	EXISTING IDOT LIGHTING CONTROLLER
	TEMPORARY WOOD POLE - 80 FT MH, CLASS 2
	EXISTING WOOD POLE TO BE REMOVED
	EXISTING UNDERPASS LIGHTING TO REMAIN

TEMPORARY LIGHTING PHASING

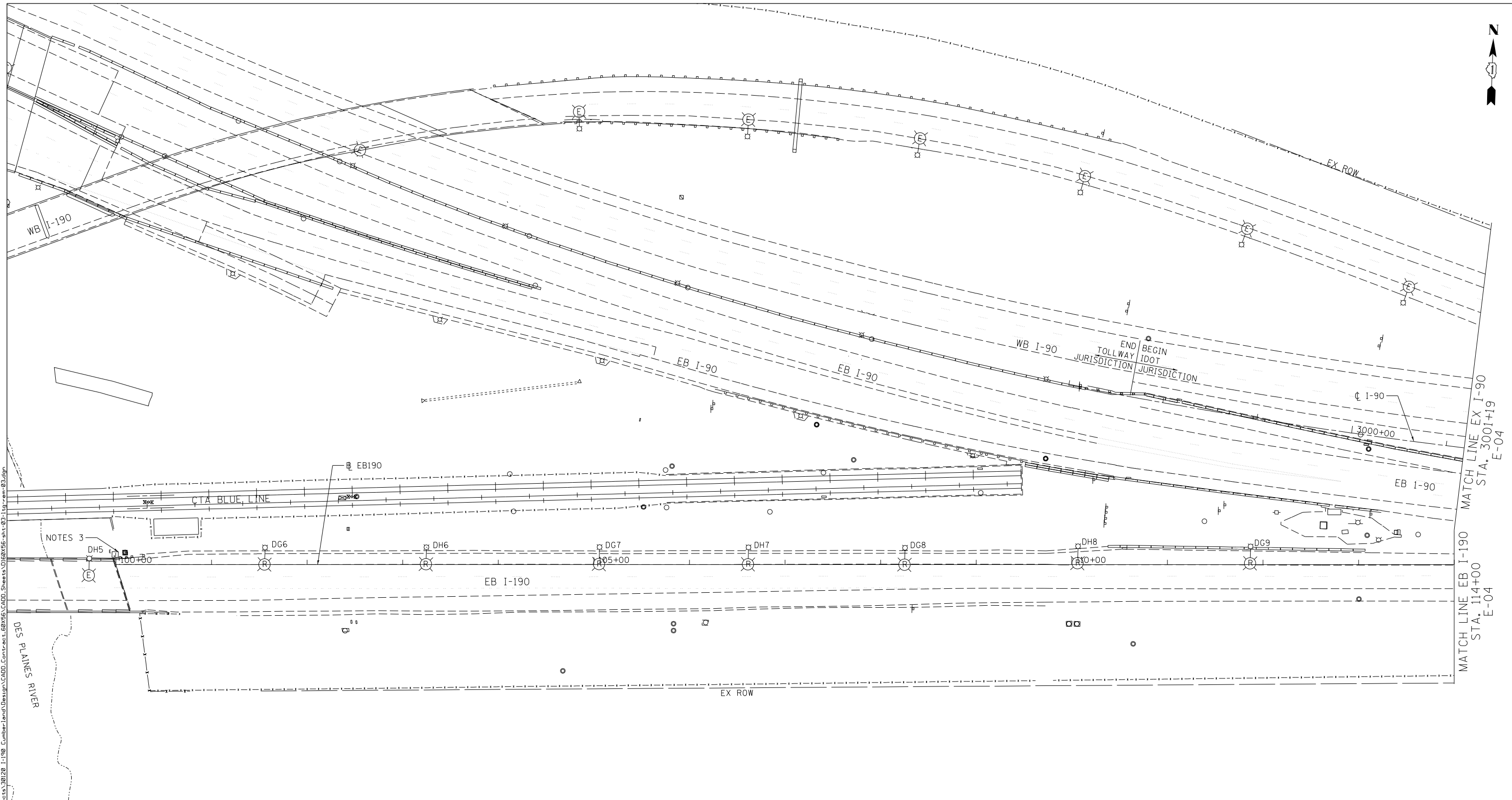
- UNLESS OTHERWISE NOTED TEMP POLES REMOVED IN STAGE 3 AFTER PROPOSED POLES ARE IN-SERVICE, WHICH OCCURS AFTER TRAFFIC IS IN FINAL CONFIGURATION.

LIGHT TOWER DESIGNATION



IDOT LIGHTING BILL OF MATERIALS

PAY ITEM DESCRIPTION	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	370
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	280
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	120
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	4
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	1
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	1
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	4480
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1120
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	7245
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	5
LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 400 WATT	EACH	84
UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	5
LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 12	EACH	7
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	40
LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	210
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	25
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	7
REMOVAL OF POLE FOUNDATION	EACH	7
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	5
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	21
WOOD POLE, 100 FT, CLASS 2	EACH	25
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	8
REMOVAL OF TOWER FOUNDATION	EACH	8
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	25
TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 1000 WATT	EACH	25



NOTES:

1. THE IDOT LIGHT UNITS SHOWN ON THIS SHEET WILL BE REMOVED ONLY AFTER TEMPORARY LIGHTING IS INSTALLED IN PLACE FOR THIS LOCATION AND ENERGIZED. ALL IDOT LIGHTING UNITS WILL BECOME PROPERTY OF CONTRACTOR FOR DISPOSAL.
2. THIS SHEET SHOWS REMOVAL OF IDOT LIGHTING UNITS ONLY. SEE TOLLWAY LIGHTING REMOVAL SHEET FOR EXISTING LUMINAIRES ALONG EB I-90.
3. EXISTING JUNCTION BOX IN PARAPET WALL TO REMAIN, CABLE IN JUNCTION BOX TO REMAIN FOR FUTURE CONNECTIONS.



E-03



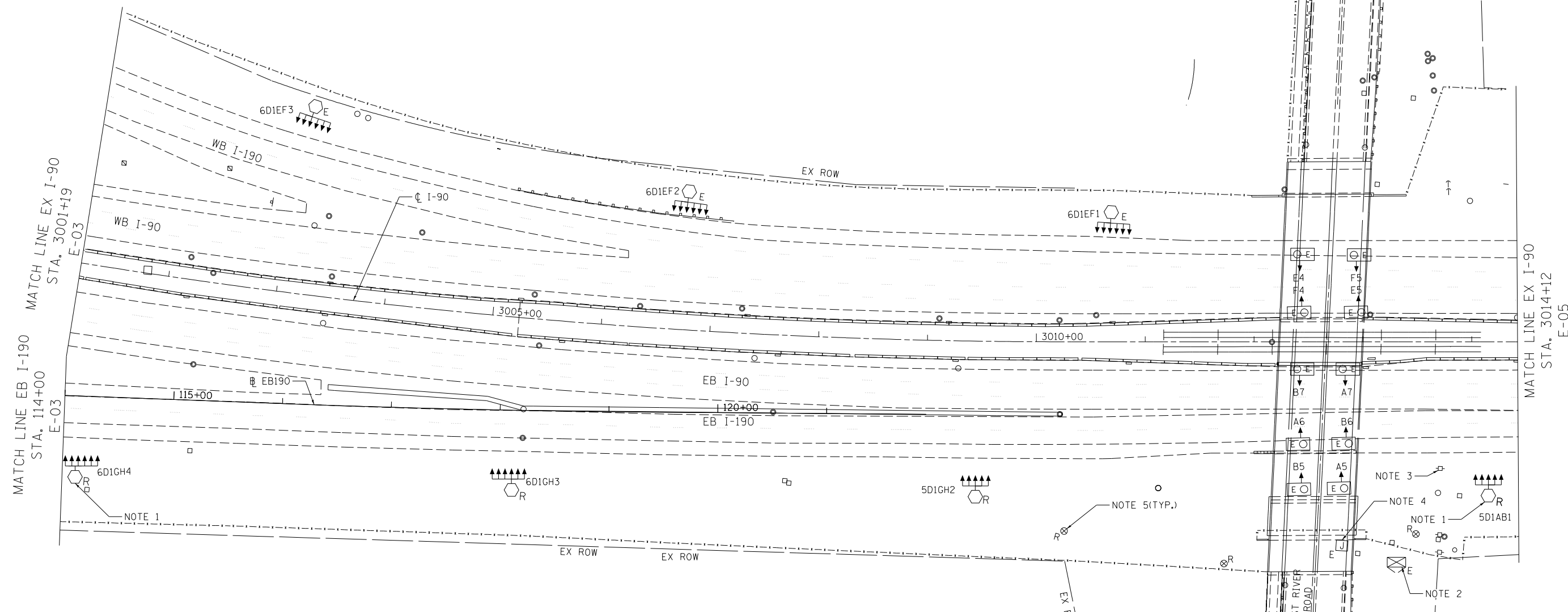
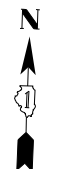
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT LIGHTING REMOVAL PLAN
EASTBOUND I-190**

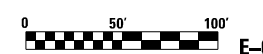
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	218
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				



NOTES:

1. COORDINATE WITH ITS REMOVAL SHEETS FOR CCTV CAMERA REMOVAL (SEE SHEET ITS-04).
2. EXISTING LIGHTING CONTROLLER FURNISHED AND INSTALLED UNDER A SEPERATE CONTRACT.
3. EXISTING COMED UTILITY SERVICE POLE TO BE RELOCATED UNDER CONTRACT 62A64.
4. EXISTING 3" PVCC CONDUIT TO REMAIN FOR FINAL LIGHTING CONNECTION. (SEE SHEET E-12)
5. REMOVE EXISTING WOOD POLE USED FOR LIGHTING CIRCUIT CONNECTION TO EXITING LIGHT TOWERS. THE REMOVAL OF THESE WOOD POLES SHALL BE INCLUDED IN THE PAY ITEM 84100110, REMOVAL OF TEMPORARY LIGHTING UNIT.



E-04

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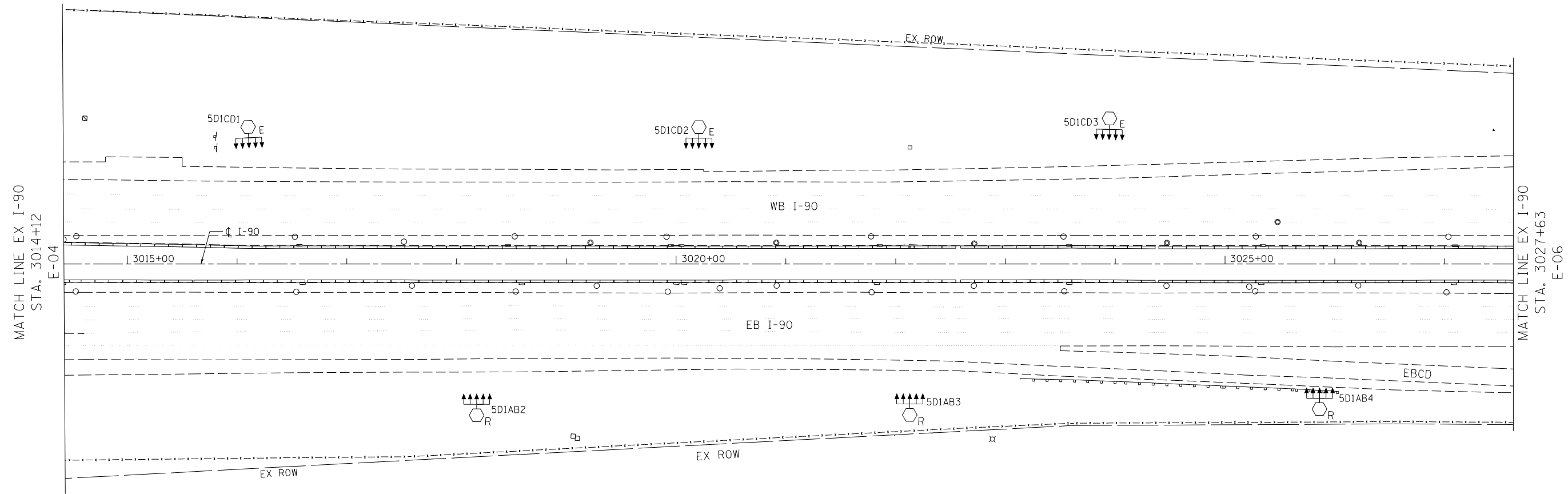
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT LIGHTING REMOVAL PLAN
EB I-190 AND EBCD ROAD**

SCALE: SHEET 2 OF 4 SHEETS STA. 114+00.00 TO STA. 508+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	219
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				



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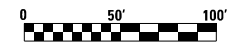
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING REMOVAL PLAN
EASTBOUND CD ROAD

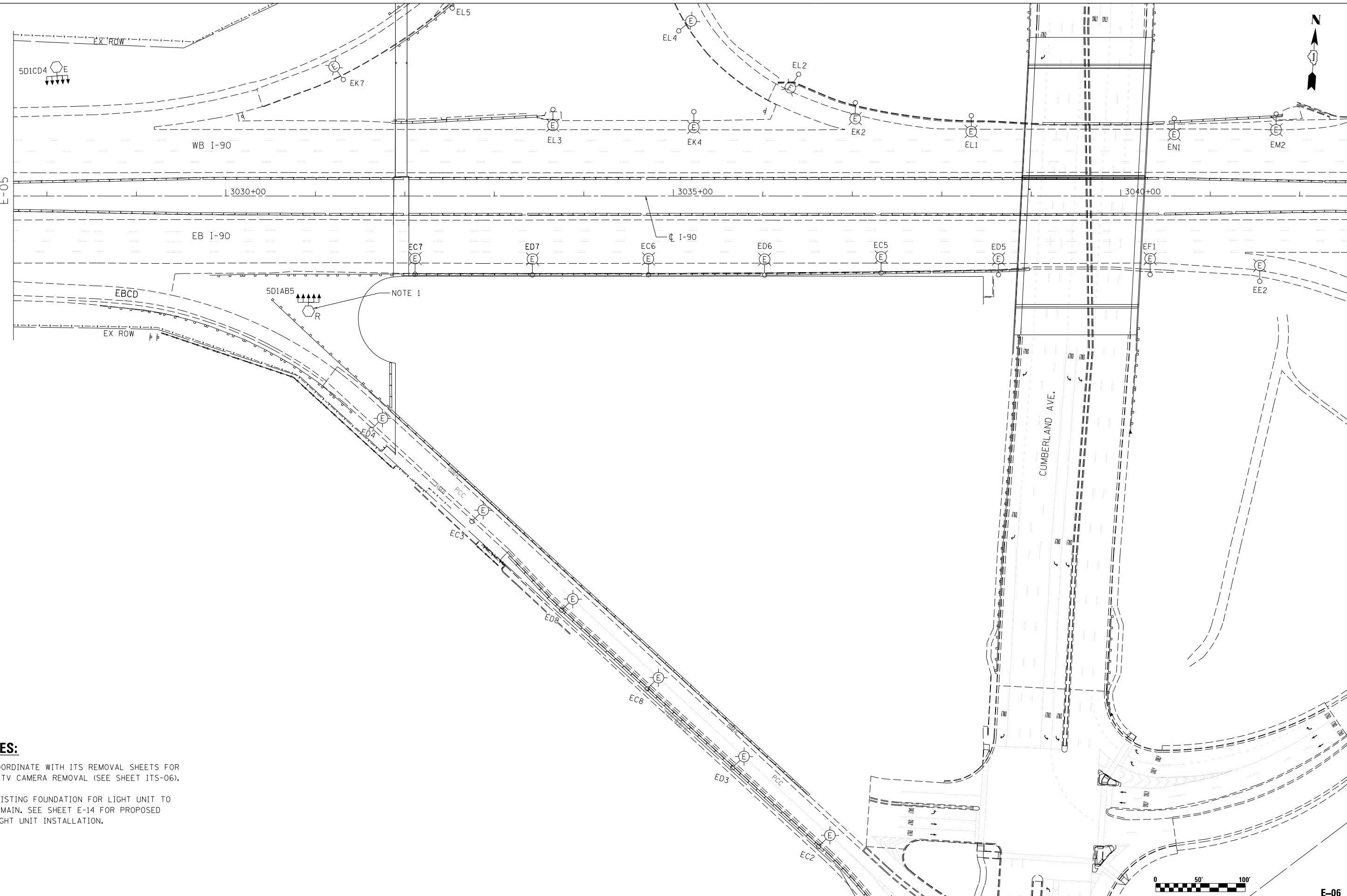
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	220
CONTRACT NO. 60X56			E-05	
ILLINOIS FED. AID PROJECT				



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MATCH LINE EX I-90
STA. 3027+63
E-05



NOTE 1

- NOTES:**
- COORDINATE WITH ITS REMOVAL SHEETS FOR CCTV CAMERA REMOVAL (SEE SHEET ITS-06).
 - EXISTING FOUNDATION FOR LIGHT UNIT TO REMAIN. SEE SHEET E-14 FOR PROPOSED LIGHT UNIT INSTALLATION.



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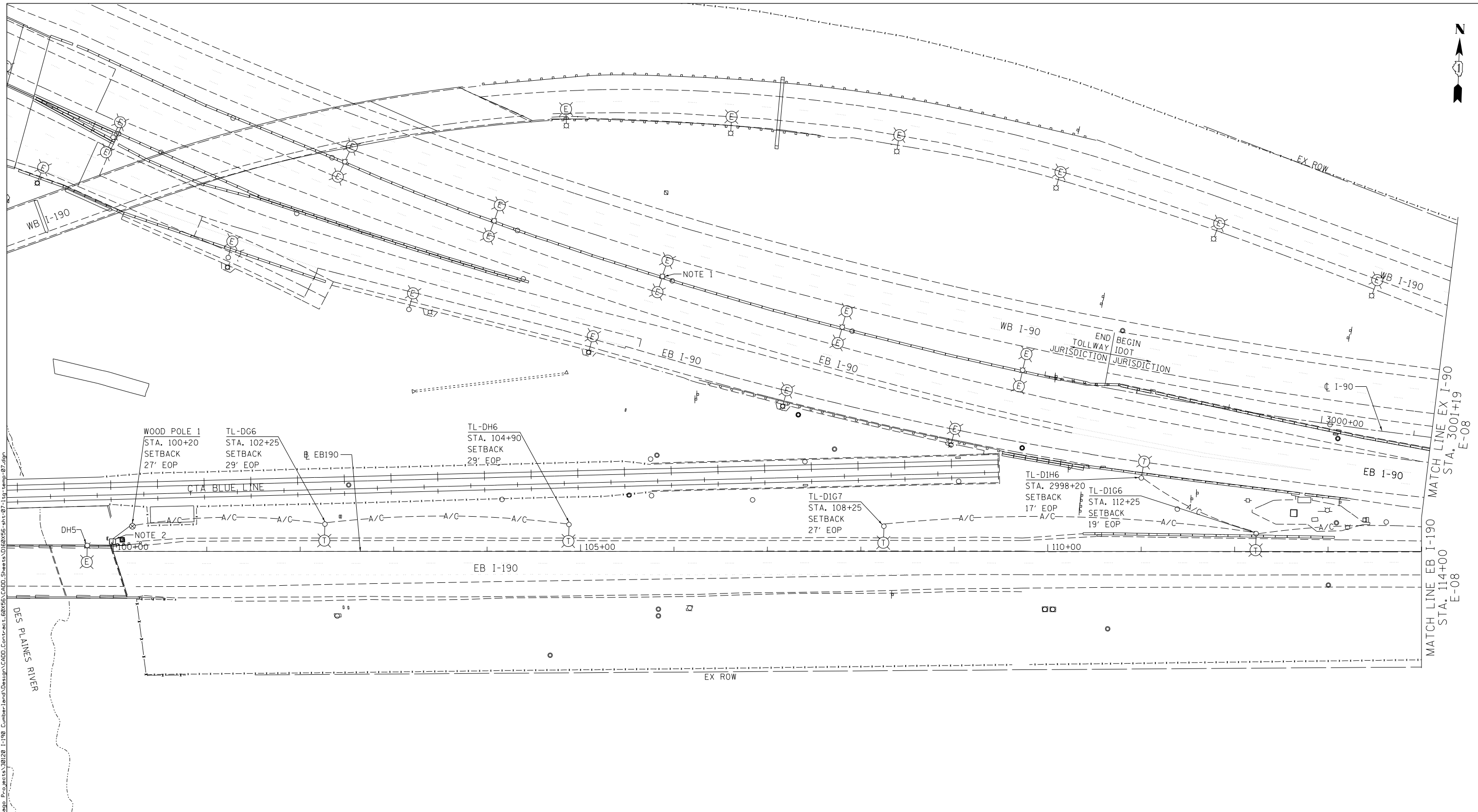
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT LIGHTING REMOVAL PLAN
EASTBOUND CD ROAD**

SCALE: SHEET 4 OF 4 SHEETS STA. 521+50.00 TO STA. 525+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	221
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

E-06



NOTES:

1. SEE ILLINOIS TOLLWAY TEMPORARY LIGHTING FOR TEMPORARY CONDITIONS ALONG I-90.
2. MAKE CONNECTION TO EXISTING LIGHTING CIRCUIT FROM EXISTING JUNCTION BOX ATTACHED TO THE PARAPET WALL (SEE SHEET E-20).



E-07

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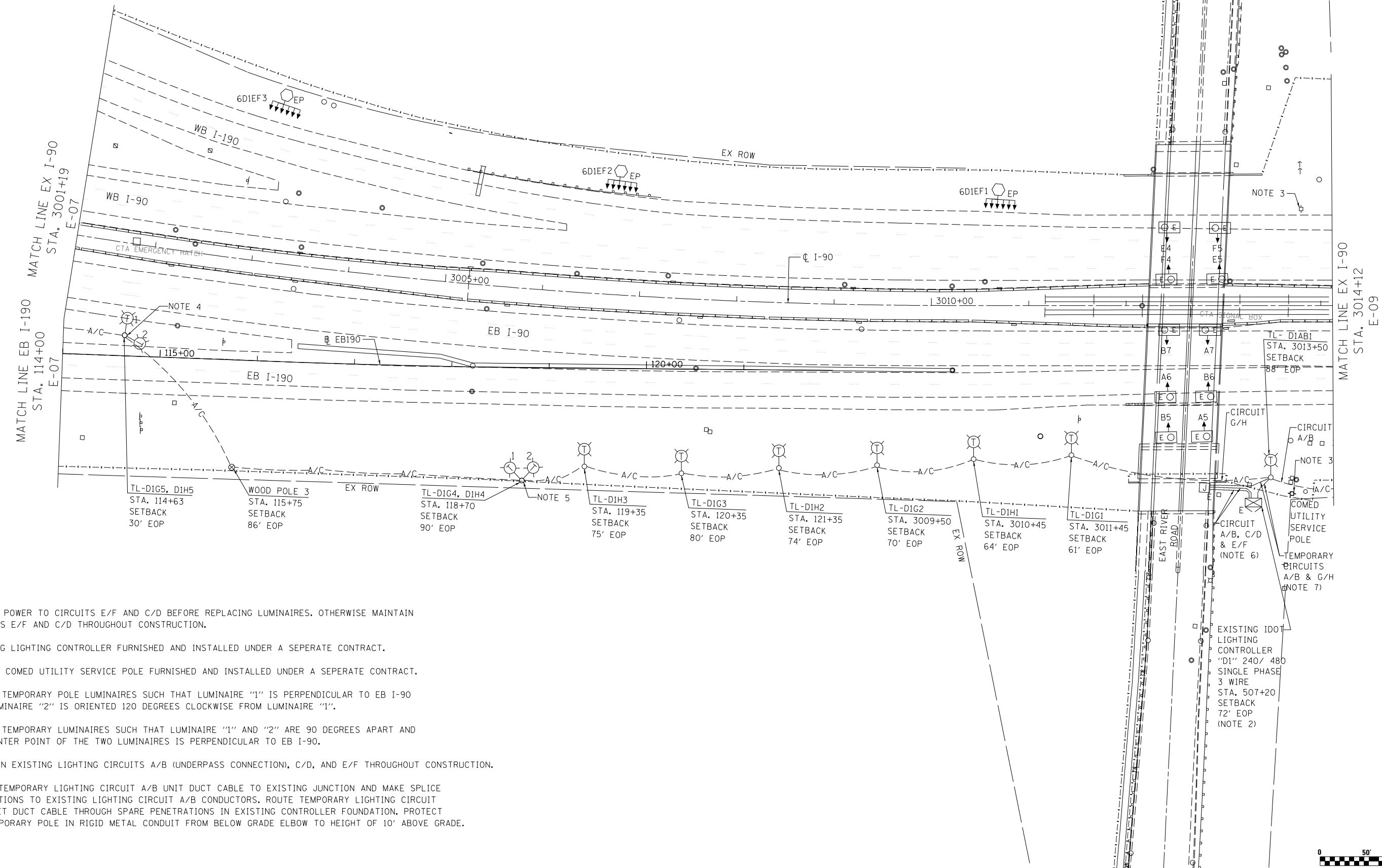
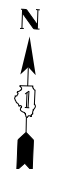
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PLOT DATE = 4/27/2016	CHECKED - MCD	REVISED -
	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT TEMPORARY LIGHTING AND REMOVAL PLAN
EASTBOUND I-190**

SCALE: SHEET 1 OF 4 SHEETS STA. 100+00.00 TO STA. 114+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	222
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	



1. REMOVE POWER TO CIRCUITS E/F AND C/D BEFORE REPLACING LUMINAIRES. OTHERWISE MAINTAIN CIRCUITS E/F AND C/D THROUGHOUT CONSTRUCTION.
2. EXISTING LIGHTING CONTROLLER FURNISHED AND INSTALLED UNDER A SEPERATE CONTRACT.
3. EXITING COMED UTILITY SERVICE POLE FURNISHED AND INSTALLED UNDER A SEPERATE CONTRACT.
4. ORIENT TEMPORARY POLE LUMINAIRES SUCH THAT LUMINAIRE "1" IS PERPENDICULAR TO EB I-90 AND LUMINAIRE "2" IS ORIENTED 120 DEGREES CLOCKWISE FROM LUMINAIRE "1".
5. ORIENT TEMPORARY LUMINAIRES SUCH THAT LUMINAIRE "1" AND "2" ARE 90 DEGREES APART AND THE CENTER POINT OF THE TWO LUMINAIRES IS PERPENDICULAR TO EB I-90.
6. MAINTAIN EXISTING LIGHTING CIRCUITS A/B (UNDERPASS CONNECTION), C/D, AND E/F THROUGHOUT CONSTRUCTION.
7. ROUTE TEMPORARY LIGHTING CIRCUIT A/B UNIT DUCT CABLE TO EXISTING JUNCTION AND MAKE SPLICE CONNECTIONS TO EXISTING LIGHTING CIRCUIT A/B CONDUCTORS. ROUTE TEMPORARY LIGHTING CIRCUIT G/H UNIT DUCT CABLE THROUGH SPARE PENETRATIONS IN EXISTING CONTROLLER FOUNDATION. PROTECT ON TEMPORARY POLE IN RIGID METAL CONDUIT FROM BELOW GRADE ELBOW TO HEIGHT OF 10' ABOVE GRADE.



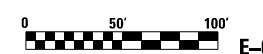
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DRAWN - AA	REVISIONS -	
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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT TEMPORARY LIGHTING AND REMOVAL PLAN
EB I-190 AND EBCD ROAD**

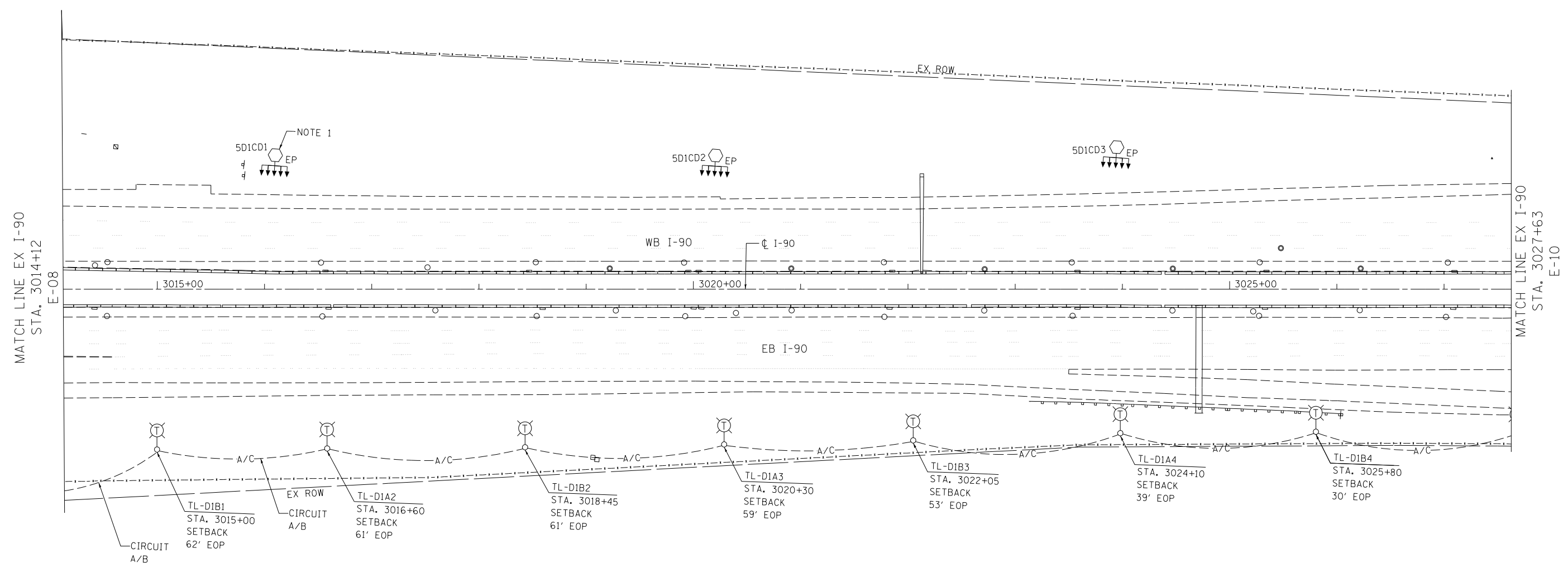
SCALE: SHEET 2 OF 4 SHEETS STA. 114+00.00 TO STA. 508+00.00

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 223
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	



E-08

FILE NAME: I:\1142556\1142556.dwg; PROJECT: I-190; DRAWING: 1517R-1(13); SHEET: E-08; DATE: 05/06/2016



NOTES:

1. INSTALL TEMPORARY LIGHTING CONDUCTORS THROUGH CONDUIT STUB AT LIGHT TOWER BASE. MAKE SPLICE CONNECTION TO EXISTING CIRCUIT C/D AT LIGHT TOWER POLE HANDHOLE (SEE SHEET E-20).



FILE NAME: \\hntb\565656\hntb\565656\Documents\Drawings\CDRoad\Contract\60X56\sh1-09-1-temp-09.dgn
 PROJECT: I-190, Cumberland Road Design, Contract 60X56, sheet 09-1, temp 09.dgn



USER NAME = konjiko	DESIGNED - KFA/SM	REVISED -
	DRAWN - AA	REVISED -
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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

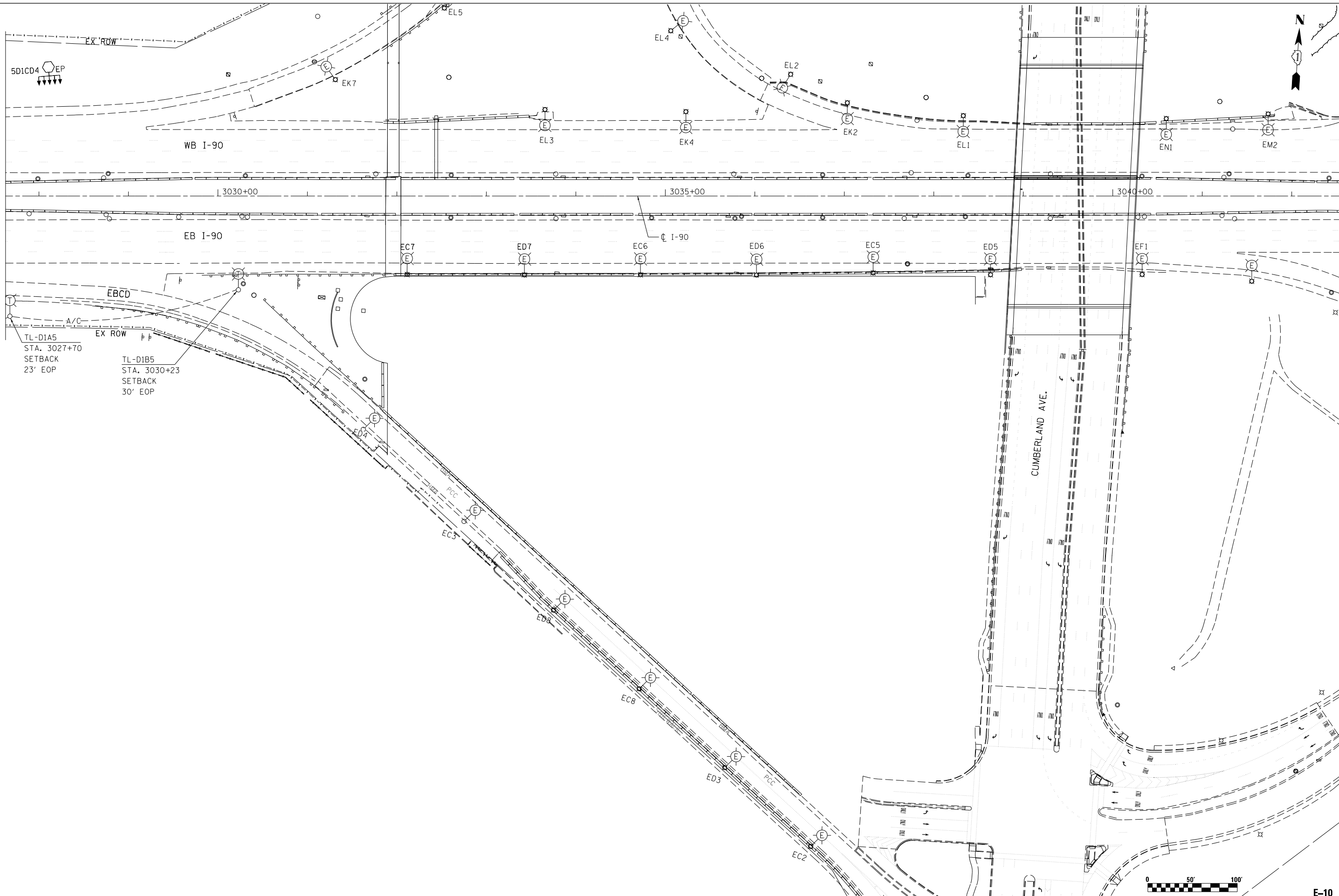
IDOT TEMPORARY LIGHTING AND REMOVAL PLAN EASTBOUND CD ROAD			
SCALE:	SHEET 3 OF 4 SHEETS	STA. 508+00.00 TO STA. 521+50.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	224
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

E-09

FILE NAME: I:\projects\1517R-1(13)\Cumberland Ave\Drawings\CD\CD\Contract\60X56\CADD\Drawings\1517R-1(13)\1517R-1(13)_E-10.dgn

MATCH LINE EX I-90
STA. 3027+63
E-09



TL-D1A5
STA. 3027+70
SETBACK
23' EOP

TL-D1B5
STA. 3030+23
SETBACK
30' EOP



USER NAME = konjiko	DESIGNED - KFA/SM	REVISED -
DRAWN - AA	REVISIONS -	
PLOT SCALE = 1:8000' / 1" =	CHECKED - MCD	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

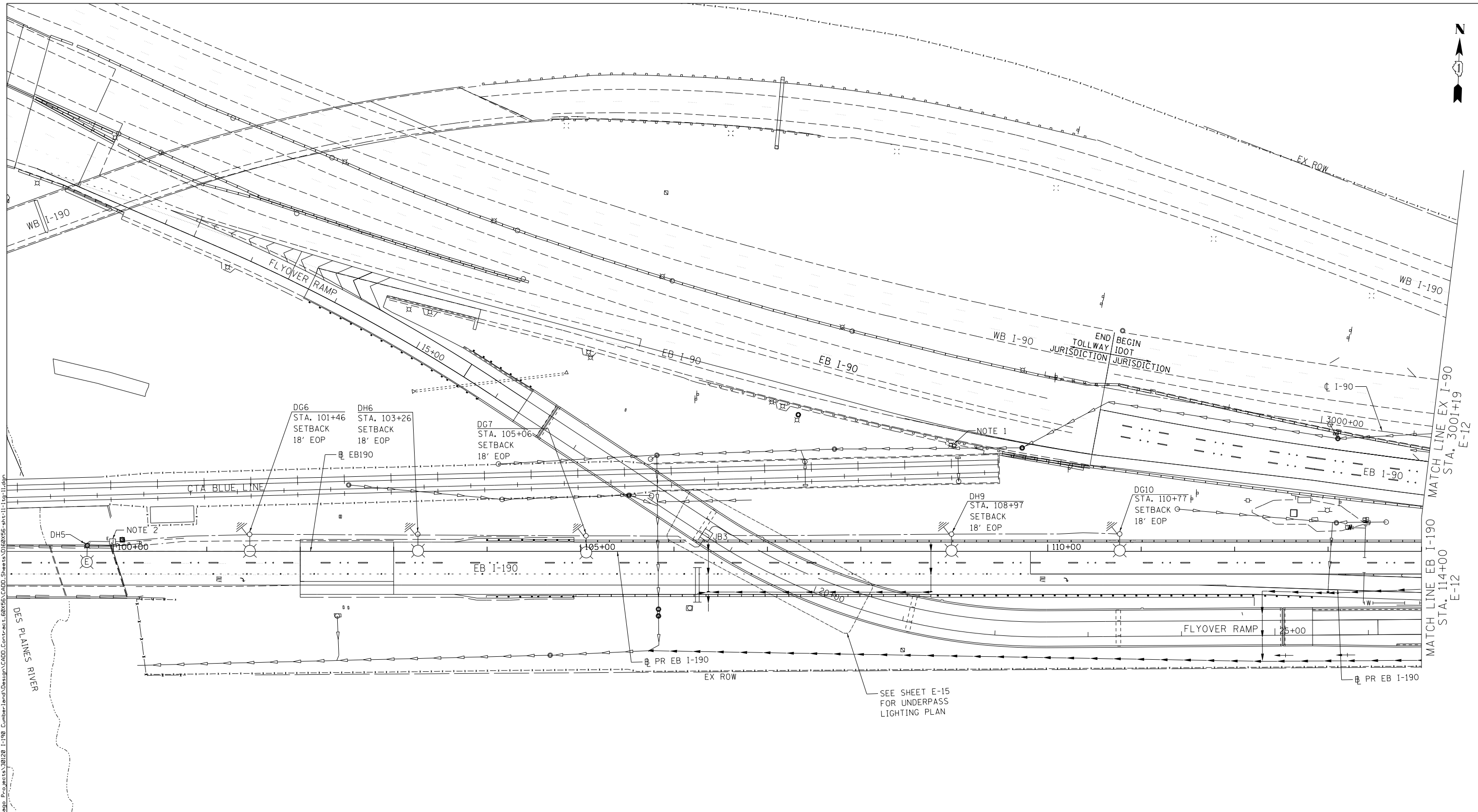
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT TEMPORARY LIGHTING AND REMOVAL PLAN
EASTBOUND CD ROAD**

SCALE: SHEET 4 OF 4 SHEETS STA. 521+50.00 TO STA. 525+50.00

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 225
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

E-10



NOTES:

1. ILLINOIS TOLLWAY LIGHTING UNITS NOT SHOWN FOR CLARITY.
2. MAKE CONNECTION TO EXISTING LIGHTING CIRCUIT FROM EXISTING JUNCTION BOX ATTACHED TO THE PARAPET WALL SEE SHEET E-20.

SEE SHEET E-15 FOR UNDERPASS LIGHTING PLAN



E-11

FILE NAME: \\hntb\p0556\hntb\p0556\Documents\Chicago_Planets\20120_1-190_CumbarLand\Design\CADD_Sheets\60X56-sh11-11-11.dgn
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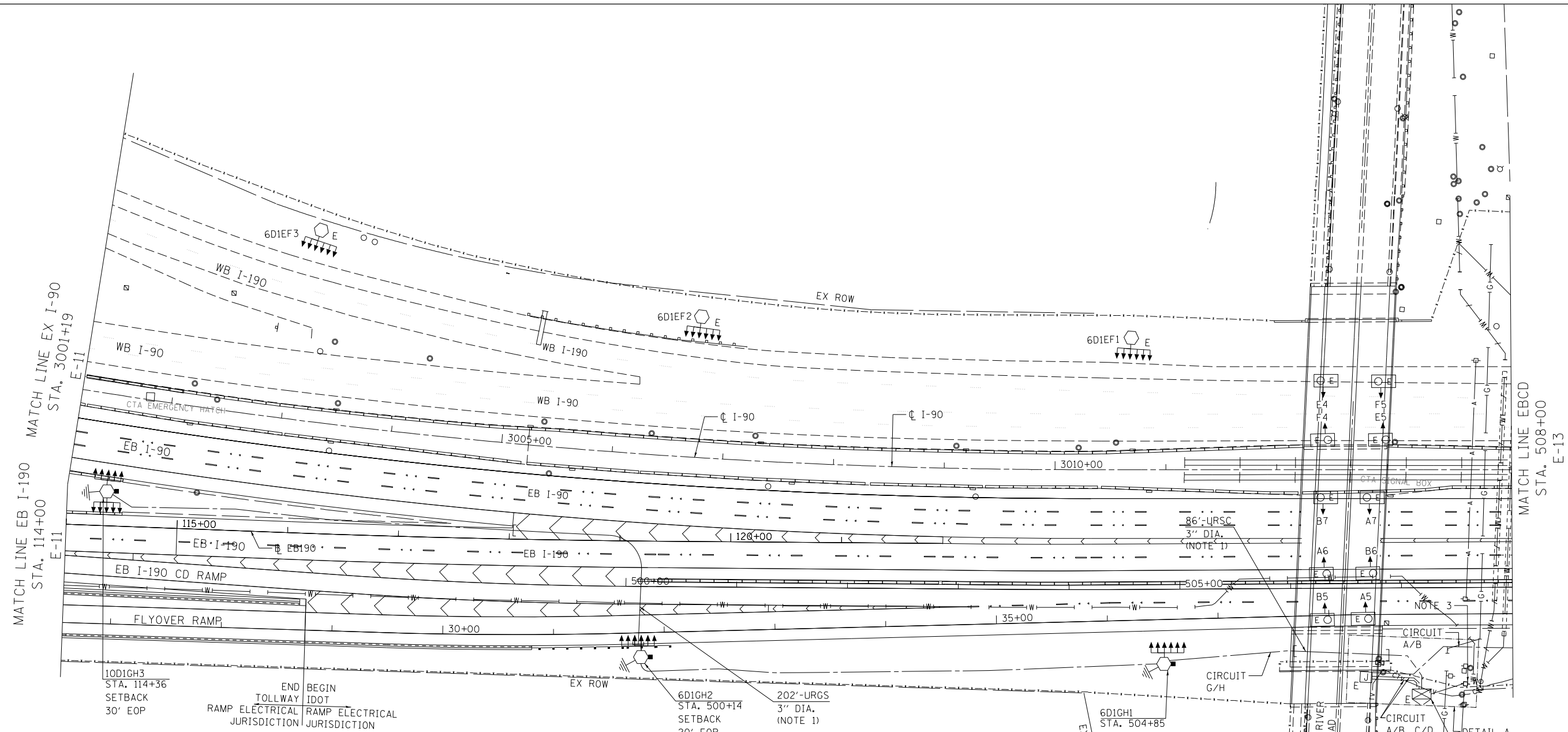
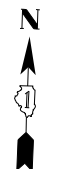
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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT PROPOSED LIGHTING PLAN
EASTBOUND I-190**

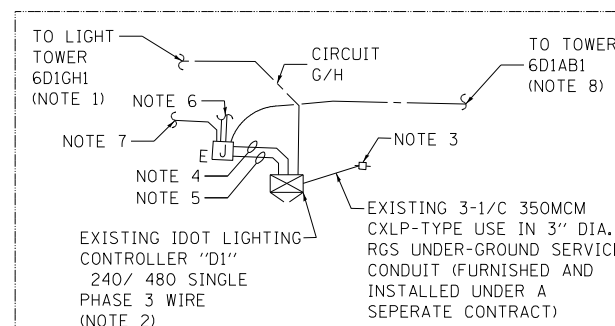
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	226
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				



NOTES:

- INSTALL RIGID METAL CONDUIT SLEEVE TO CROSS OVERPASS EMBANKMENT. SEAL ENDS AFTER PULLING UNIT DUCT CABLE. PULL NEW CONDUCTORS THRU SPARE CONDUIT IN EXISTING CONTROLLER FOUNDATION.
- EXISTING LIGHTING CONTROLLER FURNISHED AND INSTALLED UNDER A SEPERATE CONTRACT.
- EXISTING COMED UTILITY SERVICE POLE FURNISHED AND INSTALLED UNDER A SEPERATE CONTRACT.
- EXISTING 3-1/8 #2 & 1-1/8 #4 GROUND (XLP-TYPE USE) IN EXISTING UNDERGROUND CONDUIT, RGS, 2" DIA. FOR CIRCUIT A/B; NO CHANGE THIS CONTRACT.
- EXISTING 6-1/8 #2 & 2-1/8 #4 GROUND (XLP-TYPE USE) IN EXISTING UNDERGROUND CONDUIT, RGS, 2" DIA. FOR CIRCUITS C/D & E/F; NO CHANGE THIS CONTRACT.
- CIRCUITS C/D & E/F ROUTES TO WB I-90 LIGHT TOWERS VIA CONDUITS ATTACHED TO THE EAST RIVER ROAD OVERPASS; NO CHANGE THIS CONTRACT.
- TO EXISTING CIRCUIT A/B UNDERPASS LUMINAIRES.
- INSTALL UNIT DUCT, 1 1/4" DIA. POLYETHYLENE, SCH-40, 600V, 3-1/8 #2 & 1-1/8 #4 GROUND (XLP-TYPE USE) IN EXISTING 3" PVC CONDUIT. MAKE CONNECTION TO CIRCUIT A/B IN EXISTING JUNCTION BOX.



DETAIL A – CONTROLLER "D1"
N.T.S.



FILE NAME: \\hntb\p0556\hntb\p0556\Documents\Chicago\Projects\1198_Cumberland\End\Design\CADD\Contract\60X56\sh1-12-13.dgn
 PROJECT: 1198_Cumberland\End\Design\CADD\Contract\60X56\sh1-12-13.dgn



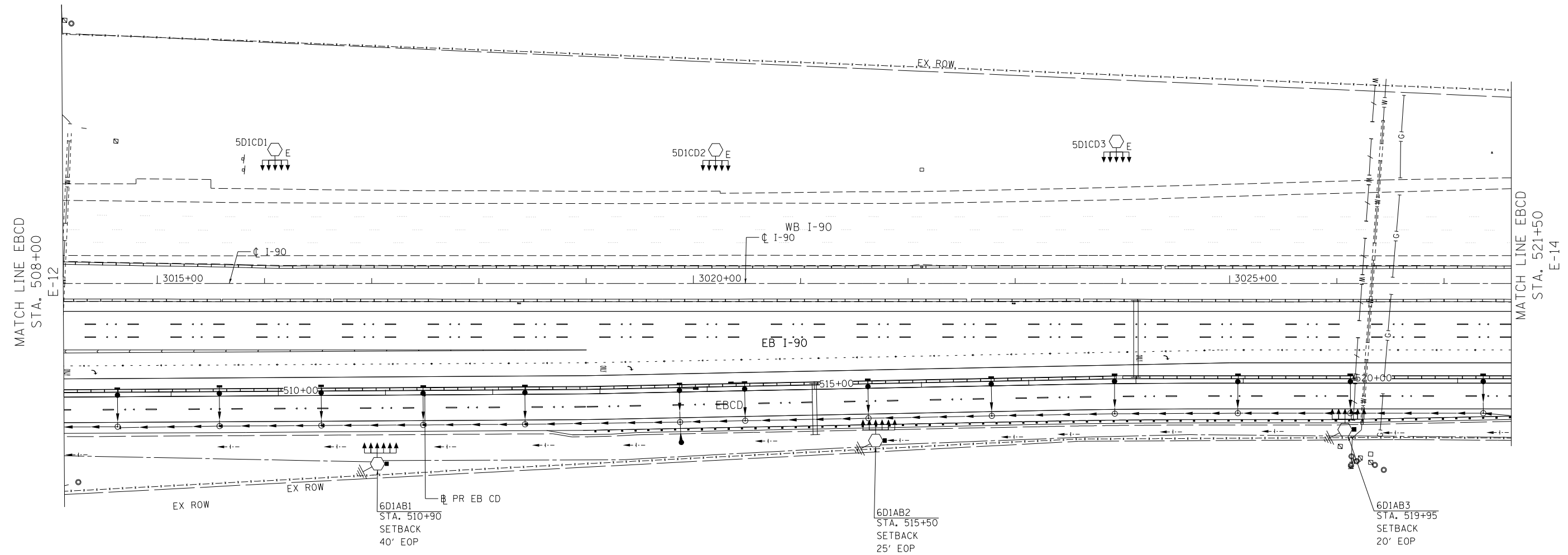
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PLOT DATE = 4/27/2016	CHECKED - MCD	REVISED -
	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT PROPOSED LIGHTING PLAN
EB I-90 AND EB CD ROAD**

SCALE: SHEET 2 OF 5 SHEETS STA. 114+00.00 TO STA. 508+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	227
CONTRACT NO. 60X56				



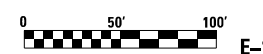
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USER NAME = konyikwa	DESIGNED - KFA/SM	REVISED -
DRAWN - AA	CHECKED - MCD	REVISED -
PLOT SCALE = 1,0000' / 1" =	DATE - 05/06/2016	REVISED -
PLOT DATE = 4/27/2016		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT PROPOSED LIGHTING PLAN EASTBOUND CD ROAD			
SCALE:	SHEET 3 OF 5 SHEETS	STA. 508+00.00 TO STA. 521+50.00	

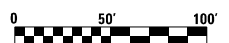
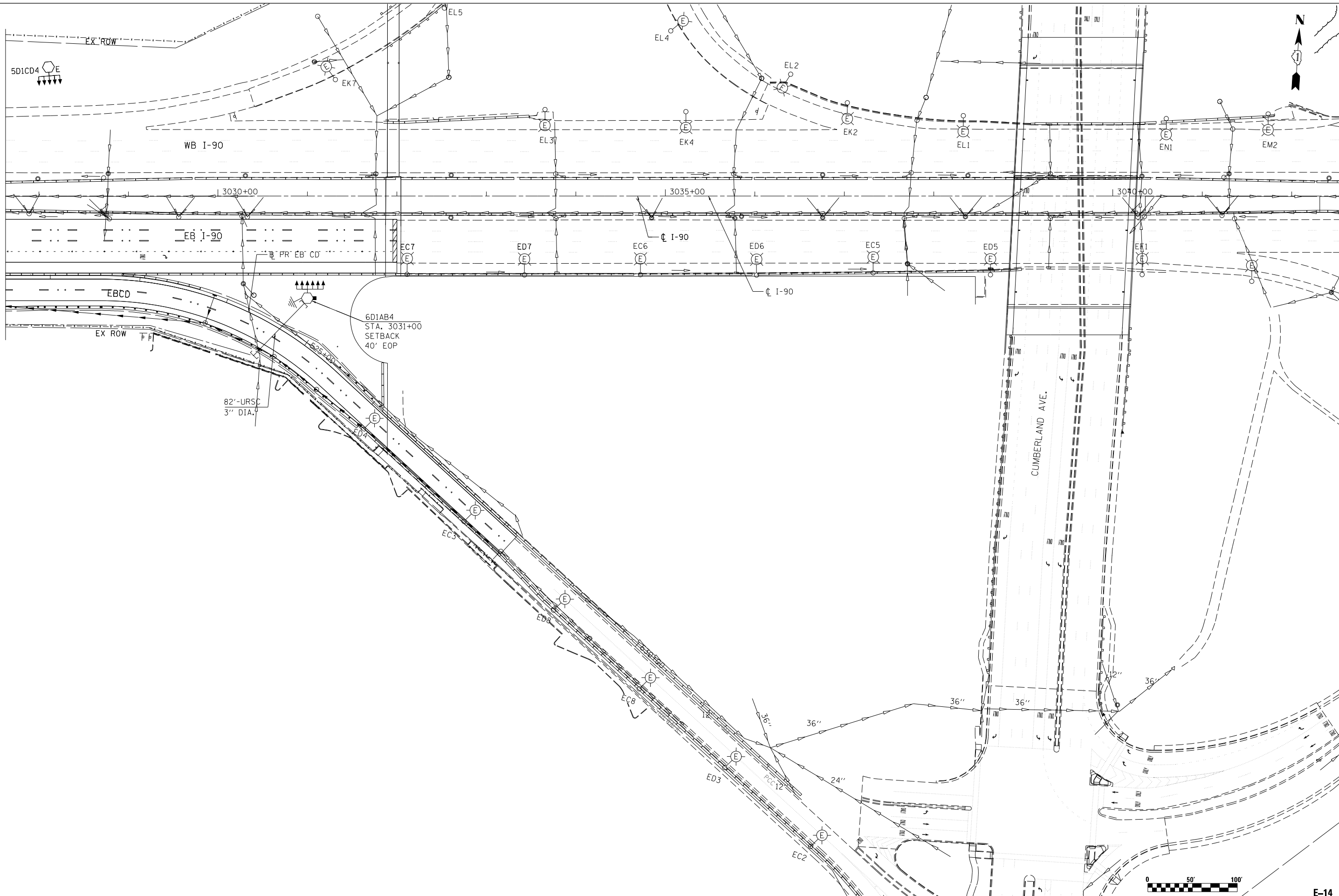


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	228
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

E-13

FILE NAME: \\hntb.com\proj\1517R-1198_Cumberland\Drawings\CADD_Sheets\60X56_CADD_Sheets\60X56-sh1-14-13-14.dgn

MATCH LINE EBCD
STA. 521+50
E-13



USER NAME = konyikwo	DESIGNED - KFA/SM	REVISED -
	DRAWN - AA	REVISED -
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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

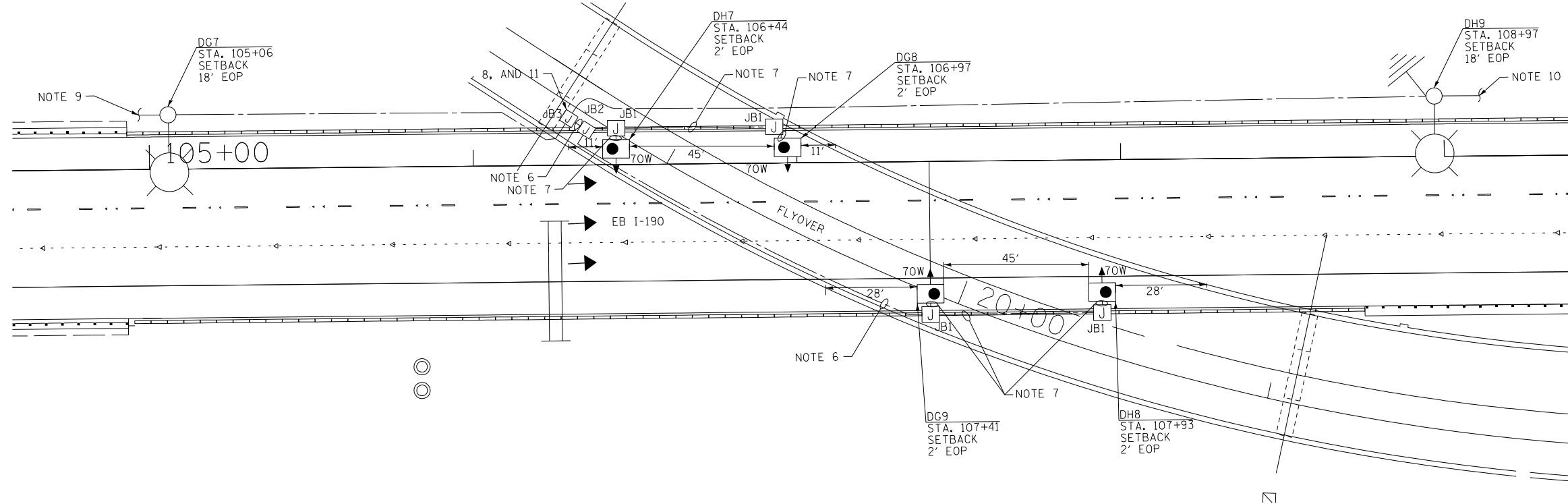
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT PROPOSED LIGHTING PLAN
EASTBOUND CD ROAD**

SCALE: SHEET 4 OF 5 SHEETS STA. 521+50.00 TO STA. 525+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	229
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

E-14



PROPOSED UNDERPASS LIGHTING PLAN - CUMBERLAND FLYOVER

NOTES:

1. SEE IDOT STANDARD DRAWING BE-900 FOR SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS.
2. SUSPENDED MOUNT UNDERPASS LUMINAIRE WATTAGE AS SHOWN.
3. DIMENSIONS SHOWN ARE APPROXIMATE, EXCEPT FOR SETBACK FROM EOP.
4. SUSPENDED MOUNT UNDERPASS LUMINAIRE SETBACK FROM THE EDGE OF PAVEMENT SHALL BE 2 FEET.
5. PROPOSED CUMBERLAND FLYOVER UNDERPASS LIGHTING UNITS SHOWN SHALL BE FED FROM IDOT LIGHTING CONTROLLER "D".
6. 3-1/C #10, 1/C #10 IN 1" DIA. PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING).
7. 2-1/C #10, 1/C #10 IN 1" DIA. PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING).
8. SEE DRAWING E-21 FOR ATTACHMENT DETAILS.
9. TO LIGHTING UNIT DH6 SEE DRAWING E-11 FOR CONTINUATION.
10. TO LIGHTING UNIT DG10 SEE DRAWING E-11 FOR CONTINUATION.
11. SPLICE UNIT DUCT CABLE CONDUCTORS FROM CIRCUIT G/H OF CONTROLLER D TO UNDERPASS SYSTEM



E-15

FILE NAME: I:\projects\60x56\hntb\60x56\hntb\60x56\60x56\Drawings\Lighting\Lighting.dgn



USER NAME = konjikwa	DESIGNED - KFA/SM	REVISED -
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PLOT SCALE = 1:8000 / 1" = 80'	CHECKED - MCD	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

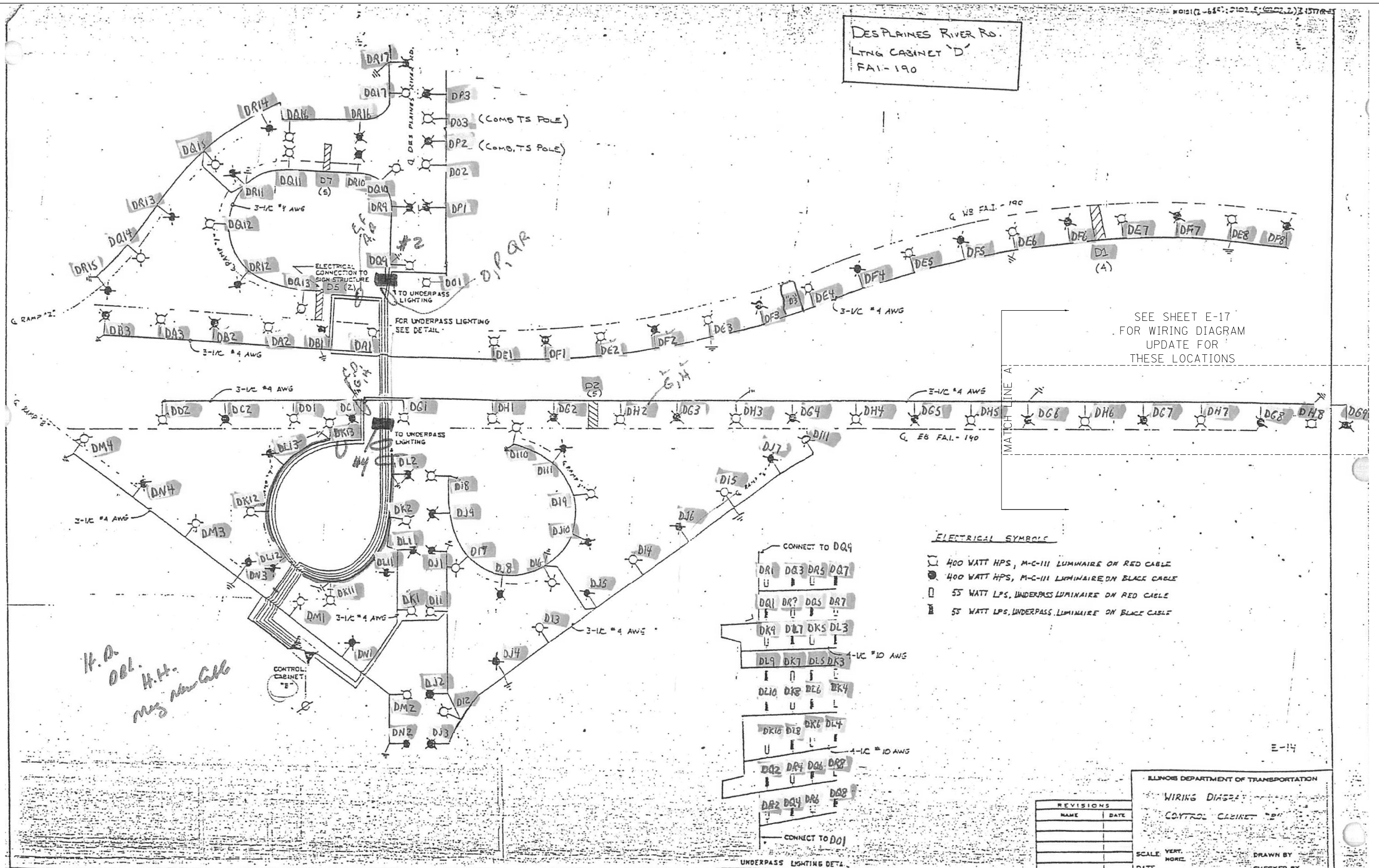
**IDOT PROPOSED LIGHTING PLAN
EAST RIVER ROAD AND CUMBERLAND FLYOVER UNDERDECK**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	230
CONTRACT NO. 60X56				

SCALE: NTS SHEET 5 OF 5 SHEETS STA. 66+00.00 TO STA. 81+00.00

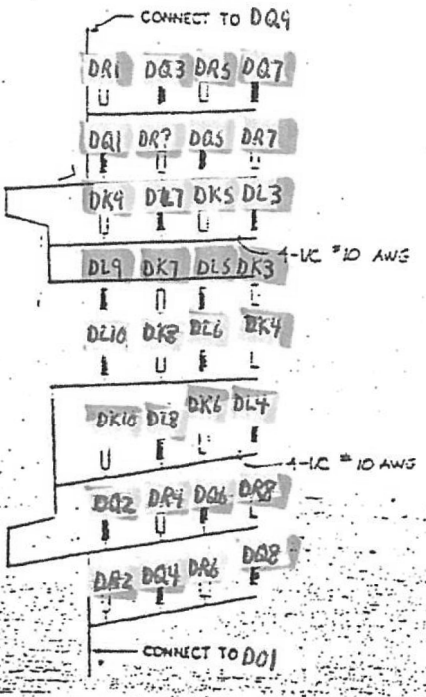
ILLINOIS FED. AID PROJECT

DES PLAINES RIVER RD.
LTING CABINET 'D'
FAI-190



SEE SHEET E-17
FOR WIRING DIAGRAM
UPDATE FOR
THESE LOCATIONS

- ELECTRICAL SYMBOLS**
- ☉ 400 WATT HPS, M-C-III LUMINAIRE ON RED CABLE
 - 400 WATT HPS, M-C-III LUMINAIRE ON BLACK CABLE
 - 55 WATT LPS, UNDERPASS LUMINAIRE ON RED CABLE
 - ▣ 55 WATT LPS, UNDERPASS LUMINAIRE ON BLACK CABLE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM
CONTROL CABINET 'D'

SCALE: VERT. _____ HORIZ. _____ DRAWN BY _____ DATE _____ CHECKED BY _____

FILE NAME: \\hntb\p0556\hntb\p0556\hntb\p0556\Documents\Chicago\Projects\1517R-1(13)\1517R-1(13)-Lg-ldp-ar-16.dgn



USER NAME = konykwo	DESIGNED - KFA/SM	REVISED -
PLOT SCALE = 1:8000' / 1"	DRAWN - AA	REVISED -
PLOT DATE = 4/27/2016	CHECKED - MCD	REVISED -
	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 1 OF 2 SHEETS STA. 10+00.00 TO STA. 24+00.00

DOT LIGHTING CONTROLLER "D"
WIRING DIAGRAM (FOR INFORMATION ONLY)

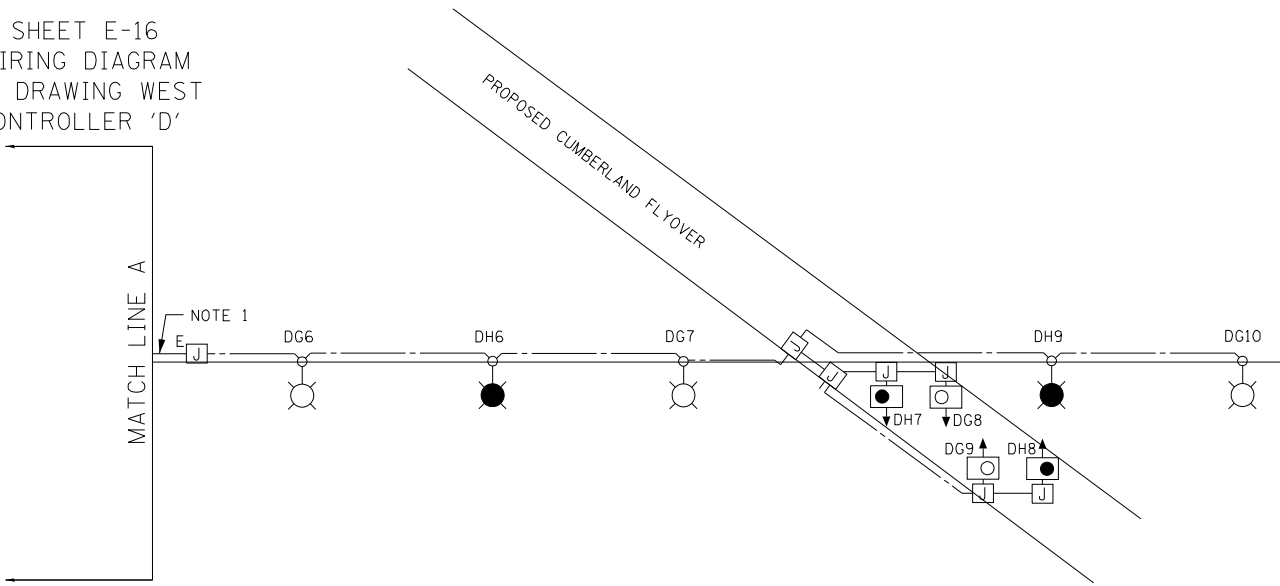
F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 231
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

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SYMBOLS & LEGEND

- 400W HPS, M-C-III LUMINAIRE ON RED PHASE
- 400W HPS, M-C-III LUMINAIRE ON BLACK PHASE
- PROPOSED CABLE
- PROPOSED JUNCTION BOX
- EXISTING JUNCTION BOX IN PARAPET WALL
- 70 WATT LUMINAIRE ON BLACK PHASE
- 70 WATT LUMINAIRE ON RED PHASE

SEE SHEET E-16 FOR WIRING DIAGRAM RECORD DRAWING WEST TO CONTROLLER 'D'



PARTIAL WIRING DIAGRAM

**LOAD TABLE CONTROLLER "D"
(FOR CKTS G & H)
240/480V, 1PH, 3W**

CKT. TAG	PHASE A	PHASE B	LUMINAIRES
G	6.81	----	3-400W HPS 2-70W HPS
H	----	4.78	2-400W HPS 2-70W HPS
TOTAL AMPS AT 240V	6.81	4.78	

NOTE:
1. LOAD TABLE OF OTHER CIRCUITS OMITTED FOR CLARITY.



USER NAME = konyikwo	DESIGNED - KFA/SM	REVISED -
	DRAWN - AA	REVISED -
PLOT SCALE = 1:8000' / in.	CHECKED - MCD	REVISED -
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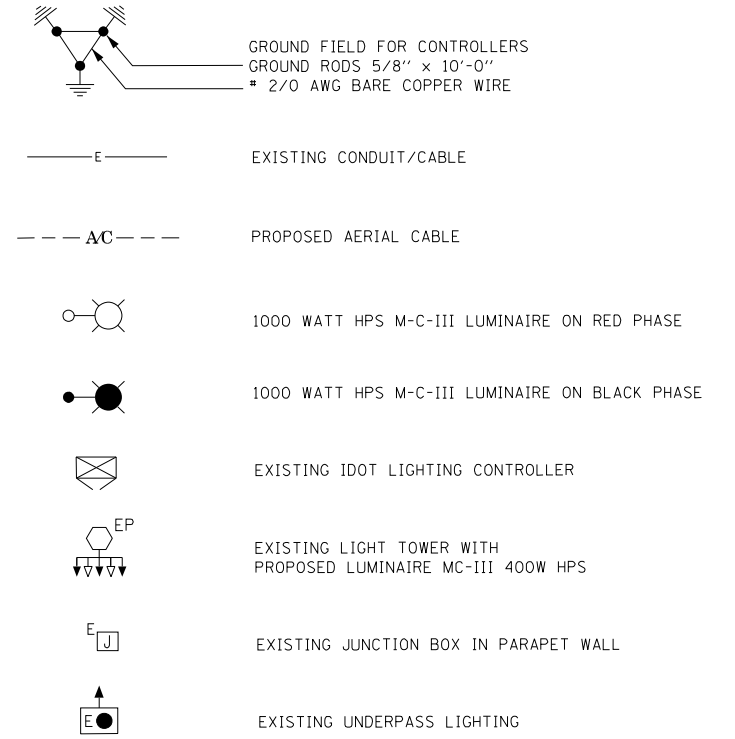
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING CONTROLLER "D"
PARTIAL WIRING DIAGRAM

SCALE: SHEET 2 OF 2 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	232
				CONTRACT NO. 60X56
ILLINOIS FED. AID PROJECT				

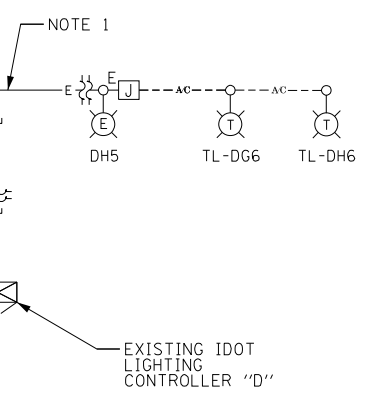
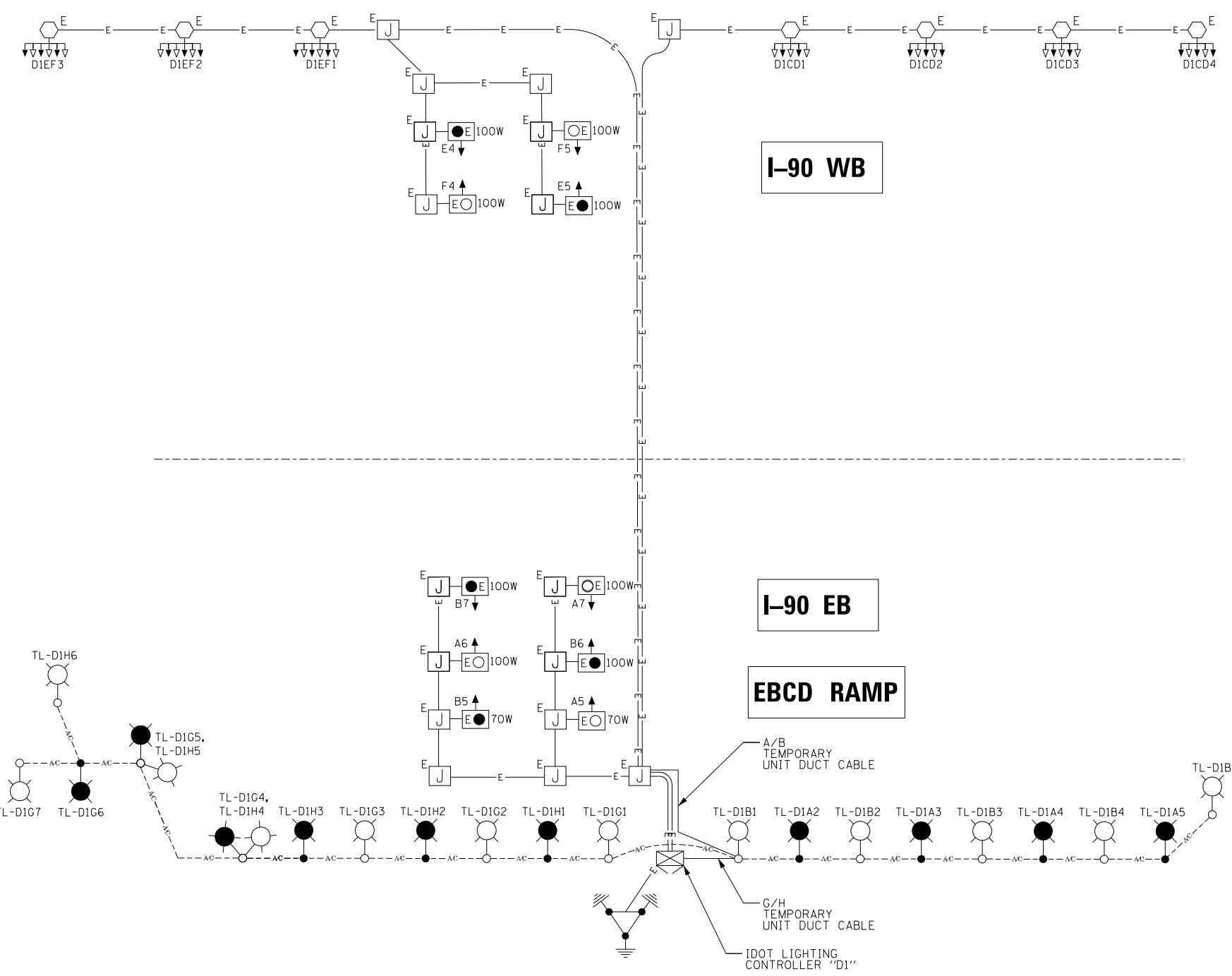
SYMBOLS AND LEGEND



LIGHT TOWER DESIGNATION



LOAD TABLE TEMPORARY LIGHTING CONTROLLER "D1"				
CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
A	21.35	----	5124	4-1000W, 2-100W, 1-70W
B	----	26.35	6324	5-1000W, 2-100W, 1-70W
C	20.33	----	4880	10-400W HPS
D	----	20.33	4880	10-400W HPS
E	19.00	----	4560	9-400W, 2-100W
F	----	19.00	4560	9-400W, 2-100W
G	35.58	----	8540	7-1000W
H	----	30.50	7320	6-1000W
TOTAL WATTS	23.90 KW	23.90 KW		



NOTES:

- EXISTING WIRING DIAGRAM OMITTED FOR CLARITY.
- DO NOT DISCONNECT CIRCUITS FROM EXISTING LIGHT TOWERS UNTIL TEMPORARY LIGHTING SYSTEM IS READY TO BE TESTED.

FILE NAME = \\hntb\p0556\mtoong\p0556\lakes\Documents\Circuit\Projects\30120_1-190_CumbarLand\Design\CADD_Sheets\06056\CADD_Sheets\06056-sh-18-19-lighting-am-18.dgn



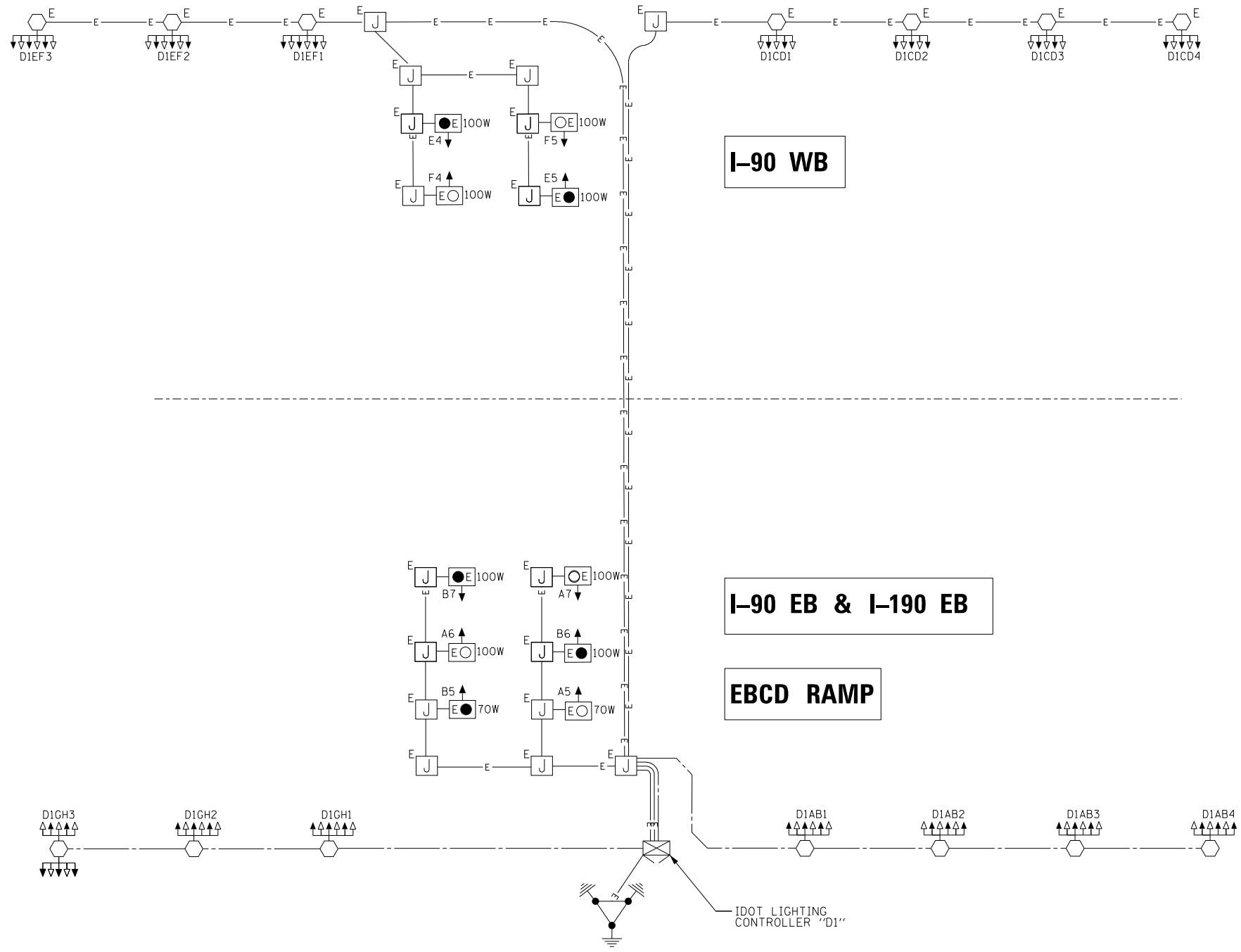
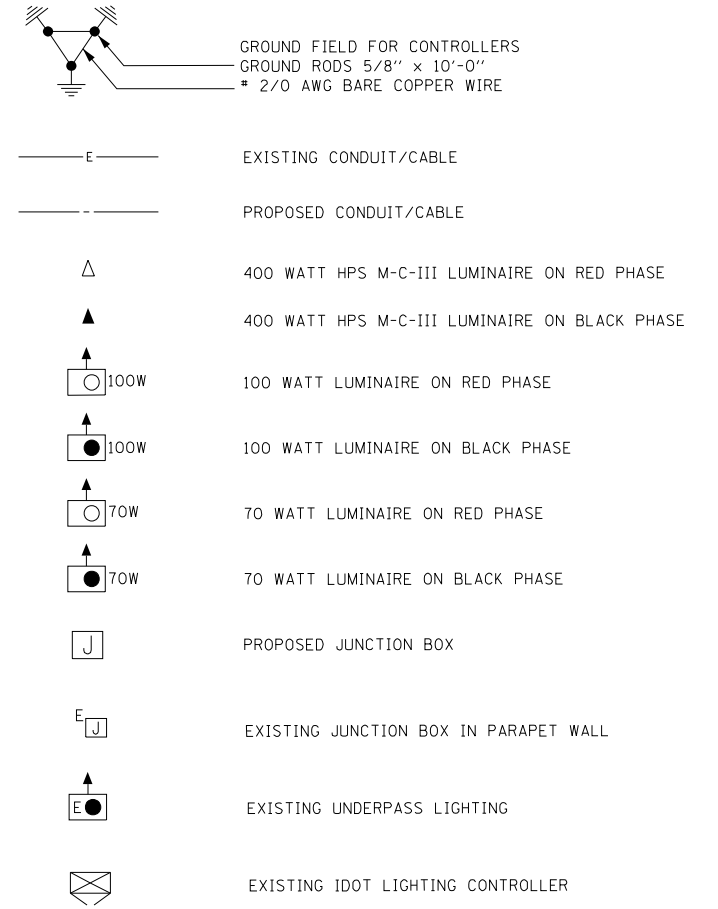
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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT TEMPORARY LIGHTING CONTROLLER "D1" WIRING DIAGRAM			
SCALE:	SHEET 1 OF 1 SHEETS	STA. 10+00.00 TO STA. 24+00.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	233
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

SYMBOLS AND LEGEND



LOAD TABLE LIGHTING CONTROLLER "D1"				
CIRCUIT	RED PHASE	BLACK PHASE	WATTS	LUMINAIRES
A	25.77	----	6185.4	12-400W HPS 2-100W HPS 1-70W HPS
B	----	25.77	6185.4	12-400W HPS 2-100W HPS 1-70W HPS
C	20.33	----	4880	10-400W HPS
D	----	20.33	4880	10-400W HPS
E	19.31	----	4636	9-400W HPS 2-100W HPS
F	----	19.31	4636	9-400W HPS 2-100W HPS
G	22.36	----	5368	11-400W HPS
H	----	22.36	5368	11-400W HPS
TOTAL WATTS	21.05 KW	21.05 KW		

FILE NAME: \\hntb\p0556\hntb\org\p0556\Documents\Chicago\Projects\30120_1-190_Cumberland\Design\CADD\Contract\60X56\sh-t-19-19-01-dwg.dwg



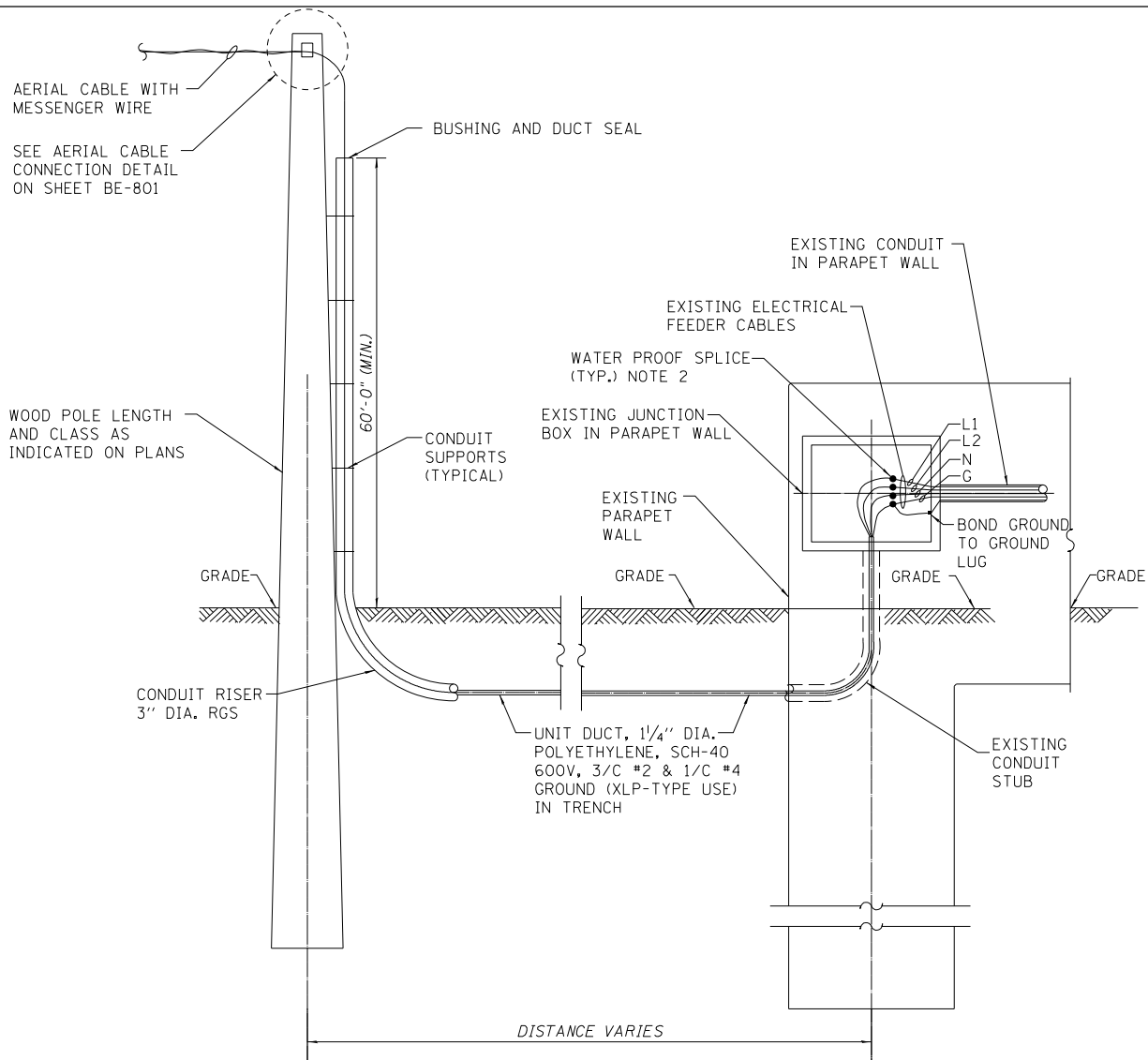
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PLOT DATE = 4/27/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

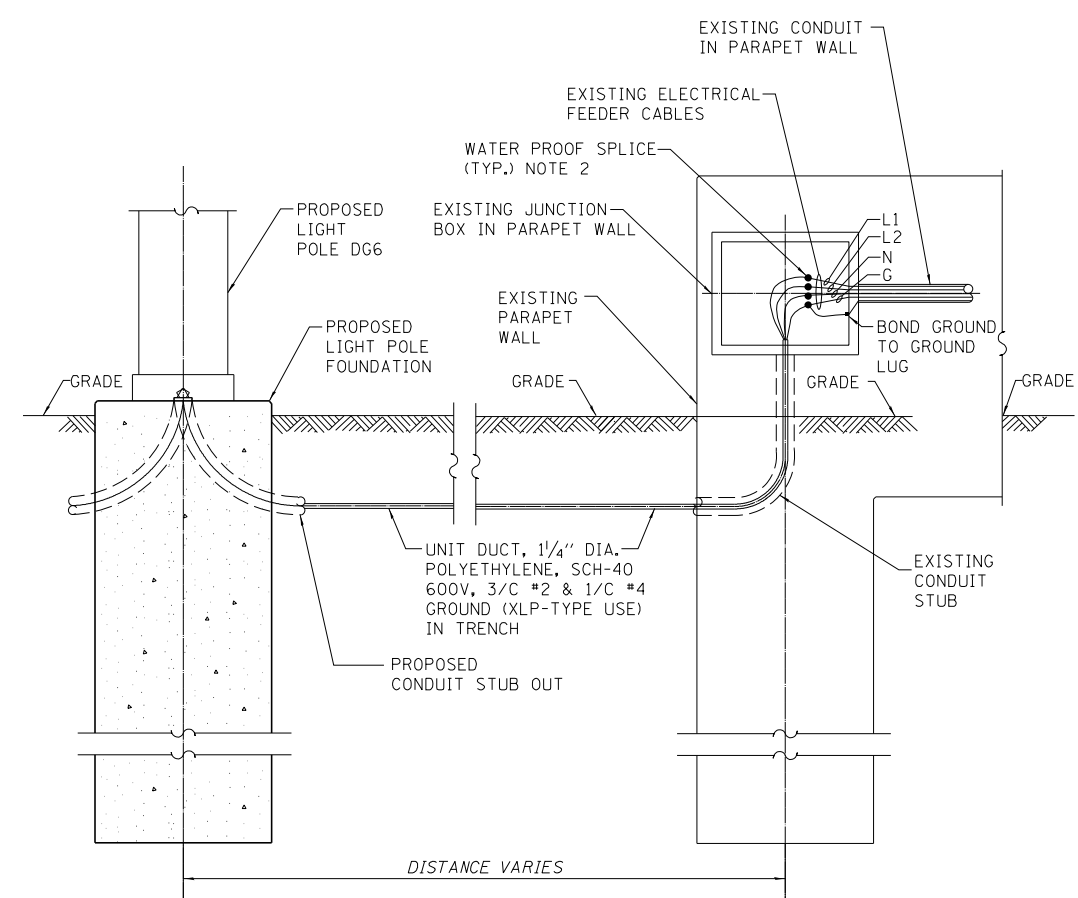
**IDOT LIGHTING CONTROLLER "D1"
WIRING DIAGRAM**

SCALE: SHEET 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

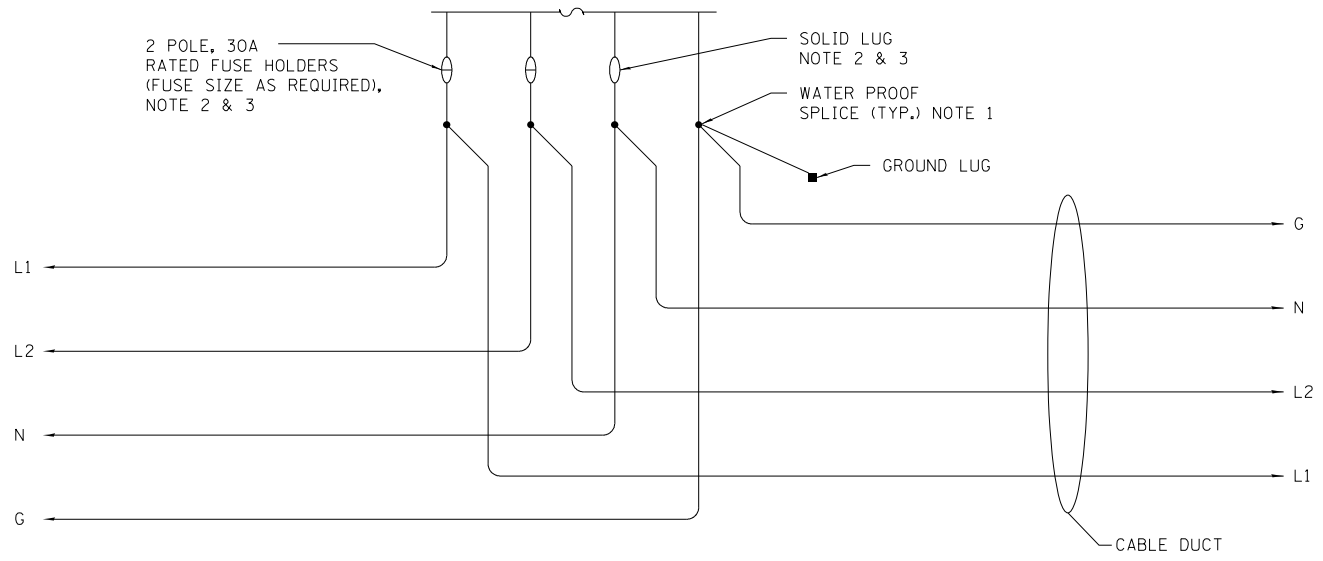
F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 234
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	



TEMPORARY LIGHTING CONDUIT CONNECTION TO EXISTING JUNCTION BOX
N.T.S.



PROPOSED LIGHT POLE CONNECTION TO EXISTING JUNCTION BOX
N.T.S.



DETAIL 'A' EXISTING LIGHT TOWER WIRING DIAGRAM
N.T.S.

NOTES:

1. ALL FUSES AND SOLID LUG MATERIALS FOR TEMPORARY AND FINAL LIGHTING SHALL BE INCLUDED AS PART OF THE MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.
2. CONTRACTOR SHALL PROVIDE NEW FUSES AND SOLID LUGS AS SHOWN FOR FINAL, AND TEMPORARY LIGHTING CIRCUITS.
3. ALL RISERS AND MATERIALS NEEDED TO ATTACH UNIT DUCT CABLE TO WOOD POLE SHALL BE PAID FOR BY MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.

FILE NAME: \\hntb\p056\mtoong\p056\lakes\Documents\Chicago\Projects\30120_1-190_Cumbarland\Design\CADD\Contract\60X56_sht-20-1gr-detail-20.dgn



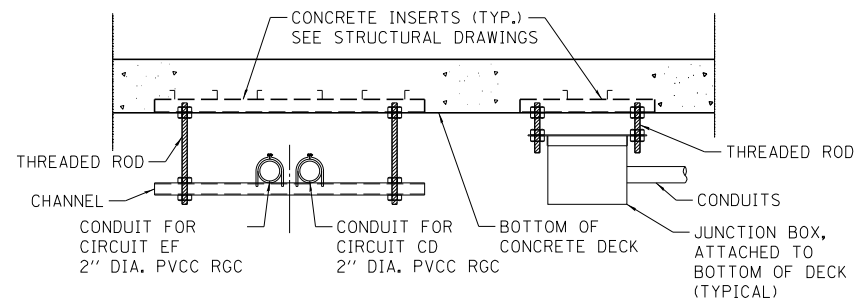
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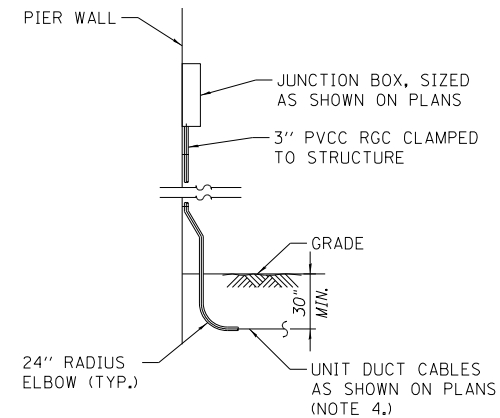
**IDOT ROADWAY LIGHTING
CONNECTION DETAILS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. 66+00.00 TO STA. 81+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	235
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	



**TYPICAL HANGER DETAILS FOR
CONDUITS AND JUNCTION BOX**
N.T.S.



**TYPICAL PIER SIDE VIEW
DETAIL - CUMBERLAND FLYOVER**
N.T.S.

NOTES:

1. 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 DIAMETER GALVANIZED STEEL, PVC COATED PAY ITEM.
2. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RCC) TYPICAL.
3. SECURE THE CONDUIT WITH PVC COATED STAINLESS STEEL HANGERS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS. ALL PVC COATED CONDUIT HANGERS AND MATERIALS SHALL BE INCLUDED WITH THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIAMETER GALVANIZED STEEL, PVC COATED PAY ITEM.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IDOT ROADWAY LIGHTING
EAST RIVER ROAD DETAILS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. 66+00.00 TO STA. 81+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	236
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

**SHEET NOT NEEDED
SEE IDOT STANDARD DETAIL BE-505**

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ELECTRICAL DETAILS

SHEET 1 OF 3 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	237
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

**SHEET NOT NEEDED
SEE IDOT STANDARD DETAIL BE-505**

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ELECTRICAL DETAILS

SHEET 2 OF 3 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	238
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

**SHEET NOT NEEDED
SEE IDOT STANDARD DETAIL BE-505**

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ELECTRICAL DETAILS

SHEET 3 OF 3 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	239
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

ILLINOIS TOLLWAY DETAILS

H1-04	LIGHT STANDARD FOUNDATION
H2-03	LIGHT STANDARD DETAILS
H3-03	BRIDGE CONDUIT DETAILS

ABBREVIATIONS

AEL	AMERICAN ELECTRIC LIGHTING
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BC	BOLT CIRCLE
C	CONDUIT
CNC	COILABLE NONMETALLIC CONDUIT
DIA	DIAMETER
GRD	GROUND
HDPE	HIGH DENSITY POLYETHYLENE
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
MA	MAST ARM
MH	MOUNTING HEIGHT
N	NEUTRAL
PH	PHASE
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
USE	UNDERGROUND SERVICE ENTRANCE
W	WATTS
XLP	CROSS-LINKED POLYETHYLENE

LIGHTING GENERAL NOTES

- PRIOR TO ANY WORK IN FIELD, THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION OF EXISTING CONDUITS, CABLE AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123 OR 811) TO AID IN THIS TASK.
- THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH WOULD AFFECT HIS WORK UNDER THIS CONTRACT FOR THE OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
- NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR MAY ADJUST POLE LOCATIONS UP TO 10' PARALLEL TO THE ROAD, IN ORDER TO ADJUST FOR FIELD CONDITIONS.
- ALL ELECTRICAL SYSTEMS, EQUIPMENT AND APPURTENANCES SHALL BE PROPERLY GROUNDED IN STRICT CONFORMANCE WITH NATIONAL ELECTRICAL CODE EVEN THOUGH EVERY DETAIL OF REQUIREMENTS IS NOT SPECIFIED OR SHOWN.
- GROUNDED OF POLE INCLUDING GROUND ROD, CONDUCTOR, LUGS INCLUDING EXOTHERMIC WELD TO GROUND ROD SHALL NOT BE PAID SEPARATELY. COST MUST BE INCLUDED IN UNIT PRICE OF EACH FOUNDATION.
- ALL UNDERGROUND CONDUIT/DUCTS SHALL BE 30 INCHES MINIMUM BELOW GRADE.
- THE NEW ELECTRICAL MATERIALS MUST MEET REQUIREMENTS OF STANDARDS BY THE FOLLOWING ORGANIZATIONS.
 - NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION. (NEMA)
 - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS. (IEEE)
 - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. (IES)
 - AMERICAN ASSOCIATION OF TRANSPORTATION OFFICIALS. (AATO)
 - U.S. DEPARTMENT OF TRANSPORTATION. (U.S.D.O.T)
 - UNDERWRITERS LABORATORIES. (UL)
 - AMERICAN STANDARD INSTITUTE. (ASI)
 - INSULATED POWER AND CABLE ENGINEERS ASSOCIATION. (IPCEA)
 - NATIONAL ELECTRICAL SAFETY CODE (NEC)
 - NATIONAL ELECTRICAL CODE 2011
 - AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING (ANSI/IESNA RP-8)
- ALL LIGHT POLES EXCEPT POLES MOUNTED ON CONCRETE BARRIER WALL/BRIDGE PARAPET WALL/ABUTMENT WALL, SHALL HAVE AASHTO APPROVED FRANGIBLE TYPE BREAKAWAY TRANSFORMER BASE.
- ALL SPlicing MUST BE IN POLE BASES OR JUNCTION BOXES ABOVE GRADE WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS.
- EACH LIGHTING UNIT SHALL BE CONTROLLED BY THE INDICATED LIGHTING CONTROLLER. NO LIGHT SHALL BE INDIVIDUALLY CONTROLLED BY PHOTOCELL.
- COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING ROADWAY FOR THIS WORK, AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, REINSTALLING, REPAIRING, OR REPLACING EQUIPMENT.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION AND REMODELING WORK. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING ALL RELOCATIONS AND REMOVALS REQUIRED IN THIS CONTRACT. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXISTING CONDITIONS AND COORDINATE AS REQUIRED.

PROPOSED LIGHTING GENERAL NOTES

- ALL NEW UNIT DUCT, CONDUIT, JUNCTION BOXES AND APPURTENANCES ARE SHOWN DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD MUST MEET THE APPROVAL OF THE ENGINEER.
- CONDUIT AND UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDER DRAINS.

TEMPORARY LIGHTING GENERAL NOTES

- THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED; APPROVAL DOESN'T RELIEVE CONTRACTOR OF RESPONSIBILITY FOR CONFLICTS.
- THE TEMPORARY LIGHT POLE SETBACK FROM THE FURTHEST EDGE OF TRAVEL PAVEMENT (PER MOT PLANS) SHALL BE 18 FT UNLESS OTHERWISE NOTED BY OFFSET FROM EXISTING EDGE OF PAVEMENT FOR THAT STAGE.
- THE CONTRACTOR SHALL SPLICE AERIAL CABLE AT THE LIGHT POLE USING HEAT SHRINKABLE CAPS WITH FACTORY APPLIED WATERPROOF SEALANT OR AN APPROVED UL LISTED AERIAL TAP DEVICE. SPLICE KIT SHALL BE UL LISTED FOR CONNECTION DISSIMILAR METALS.
- THE CONTRACTOR SHALL PROVIDE ALL CONDUITS AND WIRES OF THE SAME TYPE AND SIZE REQUIRED TO MAINTAIN THE CONTINUITY OF THE CIRCUIT TO EXISTING LIGHT POLES TO REMAIN WHICH MAY BE AFFECTED BY REMOVALS. SHUTDOWN OF EXISTING SERVICES SHALL ONLY BE PERMITTED UPON WRITTEN APPROVAL FROM THE ENGINEER; AND THEN ONLY FOR THE DATE AND DURATION AGREED UPON.
- WHERE THE CONTINUITY OF CIRCUITS OR CONDUITS SERVING ANY EXISTING LIGHTING/EQUIPMENT TO REMAIN IN OPERATION IS INTERFERED WITH, RE-ROUTE AND RECONNECT SUCH CIRCUITS OR CONDUITS.
- UNLESS NOTED OTHERWISE TEMPORARY UNDERGROUND CONDUCTORS SHALL BE 4-1/C#2, 1-1/C#4 GND; XLP-TYPE USE, COPPER; TEMPORARY OVERHEAD CONDUCTORS SHALL BE 4-1/C#2 AL WITH MESSENGER WIRE.
- WHENEVER POSSIBLE THE CONTRACTOR SHALL INSTALL TEMPORARY LIGHTING UNITS IN THE PRESTAGE. TEMPORARY LIGHTING MUST BE FULLY OPERATIONABLE BEFORE THE EXISTING LIGHTING 1-90 MAY BE REMOVED.
- IN ACCORDANCE WITH NEC 225.18 AERIAL CONDUCTOR TO MAINTAIN 18' CLEARANCE ABOVE ROAD SURFACE AT ALL TIMES.
- CONTRACTOR SHALL TURN OFF CIRCUITS AT THE CONTROLLER BEFORE WORKING ON EXISTING LIGHTING UNITS. CONTRACTOR MUST COORDINATE A POWER OUTAGE WITH COMED & TOLLWAY AT LEAST TWO WEEKS PRIOR TO OUTAGE.

LIGHTING REMOVAL GENERAL NOTES

- BRANCH CIRCUIT WIRING FOR EXISTING EQUIPMENT TO BE REMOVED SHALL BE DISCONNECTED AT SOURCE AND REMOVED. REMOVAL OF EXISTING WIRING IS INCIDENTAL TO REMOVED EQUIPMENT.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION AND REMODELING WORK, FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING ALL RELOCATIONS AND REMOVALS REQUIRED IN THIS CONTRACT. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXISTING CONDITIONS AND COORDINATE AS REQUIRED.
- ALL EXISTING EQUIPMENT THAT ARE TO BE REMOVED SHALL BE RETURNED TO OWNER'S STOCK UNLESS OTHERWISE NOTED.
- LOCATIONS SELECTED FOR COLLECTION OF DEBRIS AND/OR STORAGE OF EQUIPMENT SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.
- THE REMOVAL OF THE EXISTING CABLE DUCT SHALL BE INCIDENTAL TO ROADWAY CONSTRUCTION.
- TEMPORARY LIGHTS SHALL BE REMOVED AFTER ALL PROPOSED LIGHT POLES HAVE BEEN INSTALLED AND FULLY FUNCTIONAL OR AS DIRECT BY ENGINEER. REMOVAL OF TEMPORARY LIGHTING UNIT SHALL BE AT NO ADDITIONAL COST TO THIS CONTRACT AND CONSIDERED PART OF THE MAINTAIN LIGHTING SYSTEM PAY ITEM. REMOVAL WILL INCLUDE ALL ITEMS SUCH AS LUMINAIRE'S, MAST ARM, AERIAL CABLE, CABLE DUCT AND MOUNTING HARDWARE.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOLLWAY LIGHTING GENERAL NOTES
AND ABBREVIATIONS**

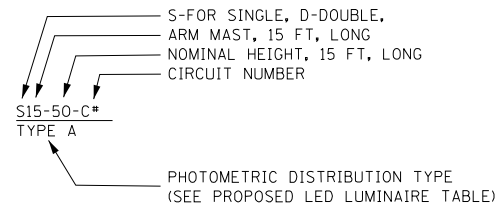
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	240
CONTRACT NO. 60X56			E-25	
ILLINOIS FED. AID PROJECT				












TOLLWAY CABLE LEGEND

-  2" UNIT DUCT, 4-1/2 NO.2 AND 1/2 NO.4 GROUND, 600V (XLP-TYPE USE), CNC
-  2" PVC CONDUIT EMBEDDED IN STRUCTURE, WITH 4-1/2 NO.2 AND NO.4 GROUND, 600V (XLP-TYPE USE)
-  2" PVC CONDUIT EMBEDDED IN STRUCTURE, WITH 2-1/2 NO.2 AND NO.4 GROUND, 600V (XLP-TYPE USE)

PROPOSED LIGHT POLE DESIGNATION



TOLLWAY LEGEND

-  PROPOSED LIGHTING UNIT 50 FT. MH ALUMINUM POLE, 15 FT ARM, LUMINAIRE M-C-II LED 400W EQUIVALENT INCLUDING FOUNDATION
-  PROPOSED LIGHTING UNIT 50 FT. MH ALUMINUM POLE, ON WALL, 12 FT ARM, LUMINAIRE M-C-II LED 400W EQUIVALENT
-  PROPOSED LIGHTING UNIT 50 FT. MH ALUMINUM POLE, ON BRIDGE, 12 FT ARM, LUMINAIRE M-C-II LED 400W EQUIVALENT
-  PROPOSED JUNCTION BOX
-  PROPOSED CNC 4" DIA.
-  EXISTING LIGHTING UNIT TO BE USED AS PART OF TEMPORARY LIGHTING AND THEN REMOVED
-  EXISTING LIGHTING UNIT
-  EXISTING LIGHTING UNIT BY OTHER AGENCY
-  EXISTING LIGHTING CONTROLLER
-  AERIAL CABLE, 4-1/2 #2, ALUMINIUM, WITH MESSENGER WIRE
-  TEMPORARY WOOD POLE - 90 FT., CLASS 2

PROPOSED LED LUMINAIRE TABLE

PHOTOMETRIC DISTRIBUTION - MAINLINE		
AEL	GE	PHILIPS
TYPE II	TYPE 23E1	TYPE R2M
PHOTOMETRIC DISTRIBUTION - RAMP		
AEL	GE	PHILIPS
TYPE II	TYPE 23E1	TYPE R2M

ILLINOIS TOLLWAY LIGHTING BILL OF MATERIALS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY
81800400	AERIAL CABLE, 4-1/2 NO. 2 WITH MESSENGER WIRE	FOOT	132
JS810879	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	45
JS813083	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	FOOT	1
JS816076	UNIT DUCT, WITH 4-1/2 NO. 2 AND 1/2 NO. 4 GROUND, 600V (XLP-TYPE USE), 2" DIA. CNC	FOOT	645
JS817214	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2 NO. 4	FOOT	1190
JS817215	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/2 NO. 2	FOOT	4310
JS821100	LUMINAIRE, LED, HORIZONTAL MOUNT	EACH	7
JS830003	GROUND MOUNTED LIGHT POLE, ALUMINUM, 50 FT., 15 FT. MAST ARM	EACH	1
JS830006	BRIDGE MOUNTED LIGHT POLE, ALUMINUM, 50 FT., 12 FT. MAST ARM	EACH	4
JS830013	WALL MOUNTED LIGHT POLE, ALUMINUM, 50 FT., 12 FT. MAST ARM	EACH	2
JS836002	LIGHT POLE FOUNDATION (ROADWAY) STEEL HELIX (10 FT)	EACH	1
JS846001	MAINTAIN LIGHTING SYSTEM	LSUM	1
JT830042	WOOD POLE, 90 FT., CLASS 2	EACH	1

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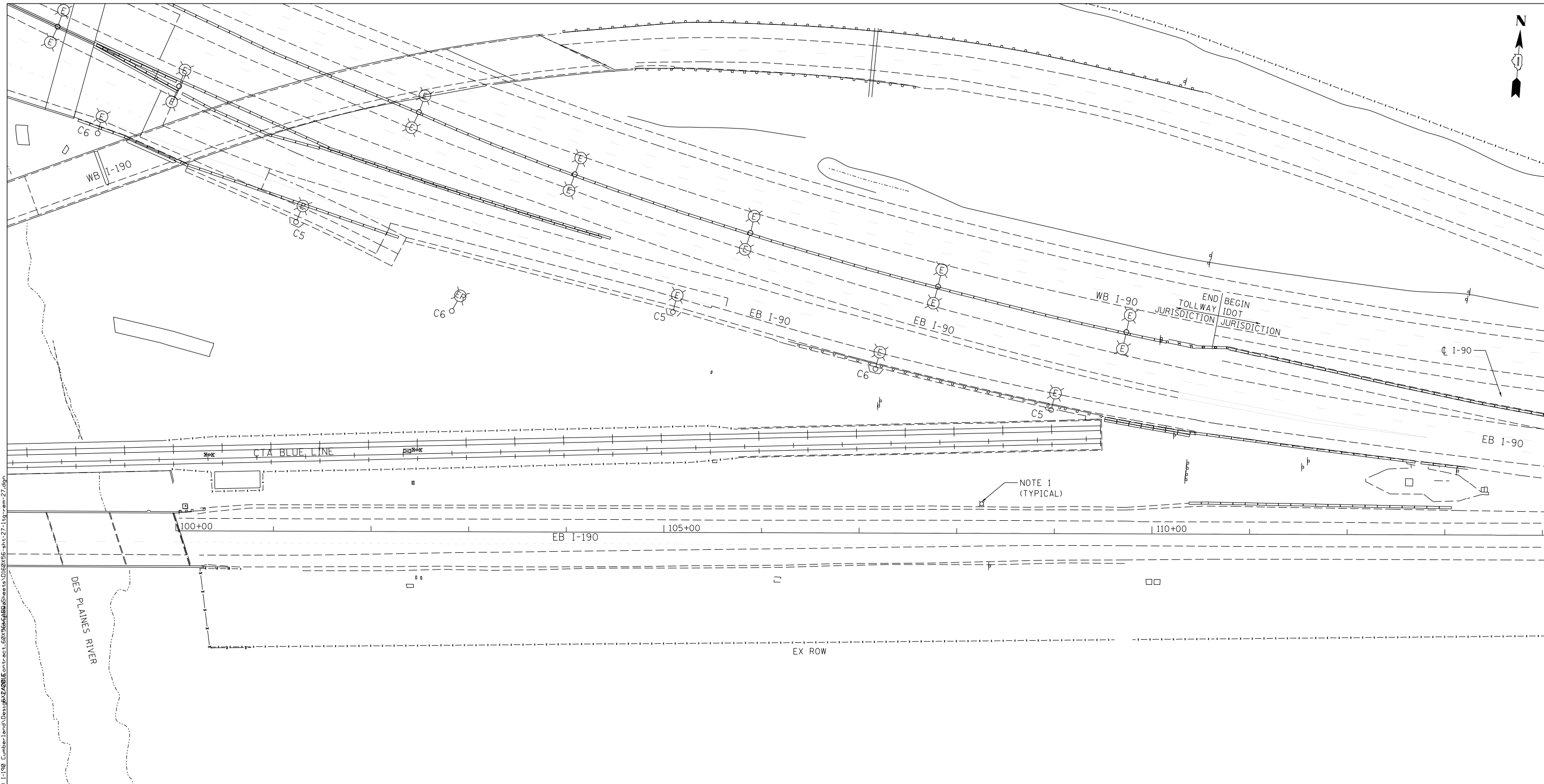
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DEPARTMENT OF TRANSPORTATION**

**TOLLWAY LIGHTING LEGEND
AND BILL OF MATERIALS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 241
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	



NOTES:

- 1. EXISTING IDOT LIGHT UNITS NOT SHOWN FOR CLARITY.



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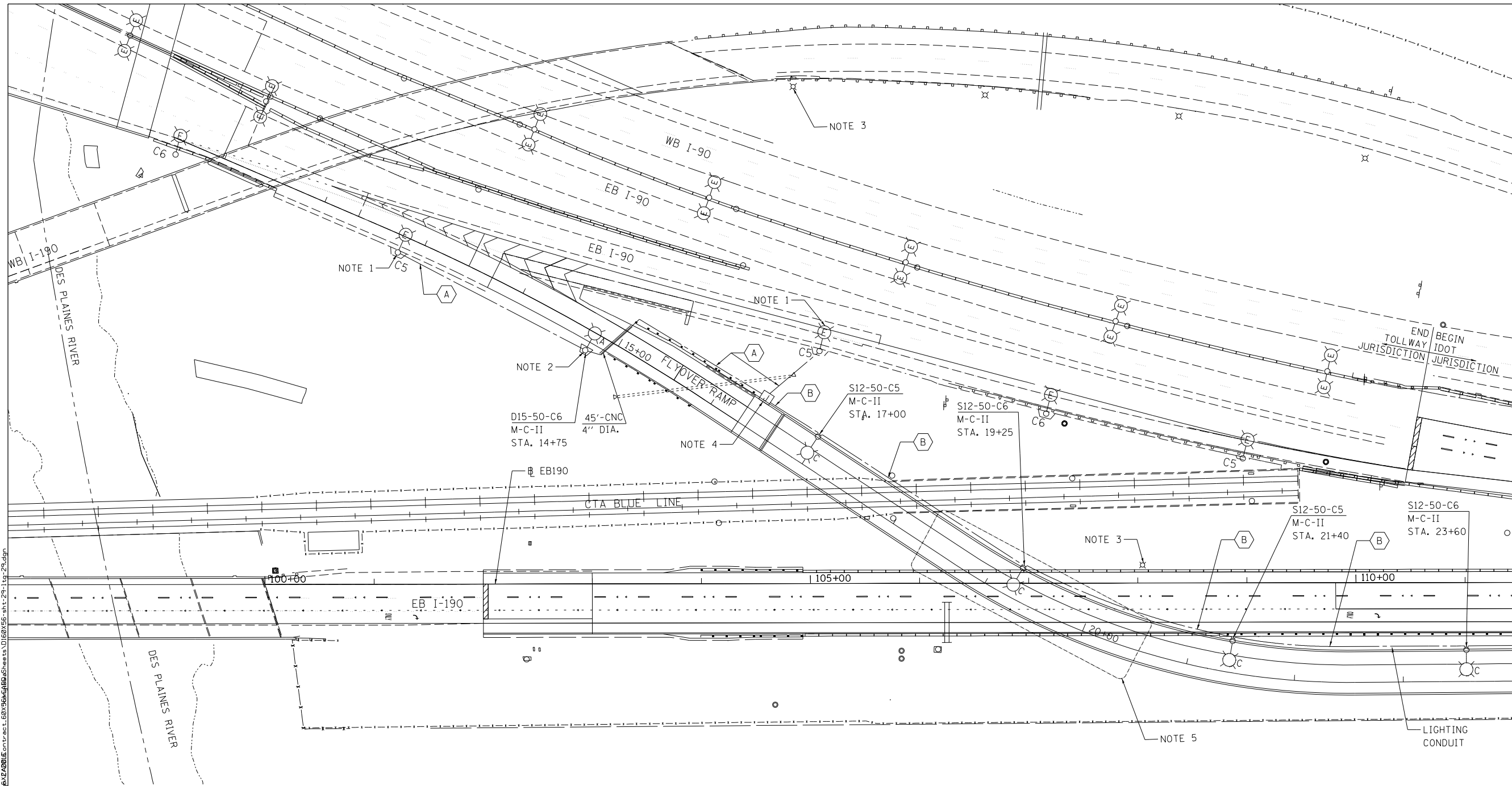
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOLLWAY LIGHTING REMOVAL PLAN
CUMBERLAND FLYOVER RAMP**

SCALE: SHEET 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	242
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				



MATCH LINE FLYOVER
STA. 24+00
E-30

NOTES:

1. MAKE CONNECTION TO EXISTING LIGHTING CIRCUITS, SPLICE PROPOSED UNIT DUCT CABLE TO EXISTING LIGHTING CIRCUIT, FUSES AND SPLICES SHALL BE INCLUDED IN THE COST OF THE UNIT DUCT CABLE.
2. LEVEL GRADED AREA PER ILLINOIS TOLLWAY STANDARD HI-05.
3. IDOT LIGHT UNITS NOT SHOWN FOR CLARITY.
4. PROPOSED STAINLESS STEEL JUNCTION BOX, 18" x 18" x 8", ATTACHED TO WALL. FOR DETAIL SEE SHEET E-32.
5. FOR UNDERPASS LUMINAIRES SEE IDOT SHEET E-15.



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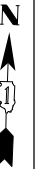
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

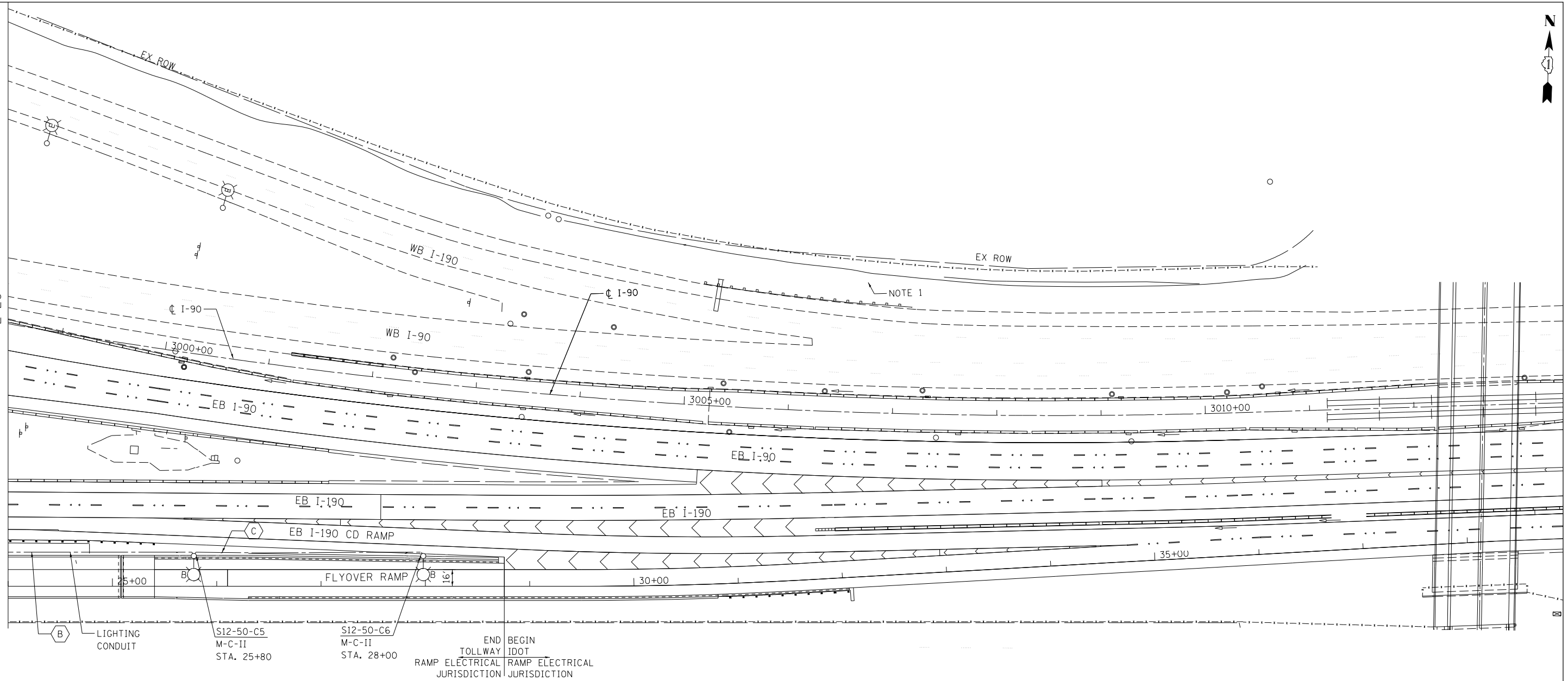
**TOLLWAY PROPOSED LIGHTING PLAN
CUMBERLAND FLYOVER RAMP**

SCALE: SHEET 1 OF 2 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	244
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				



MATCH LINE FLYOVER
STA. 24+00
E-29



NOTES:
 1. IDOT LIGHT UNITS NOT SHOWN FOR CLARITY.



E-30

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 PLOT DATE: 6/2/2016



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	DRAWN - AA	REVISED -
PLOT SCALE = 1:8000 / 1/8"	CHECKED - MCD	REVISED -
PLOT DATE = 6/2/2016	DATE - 05/06/2016	REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

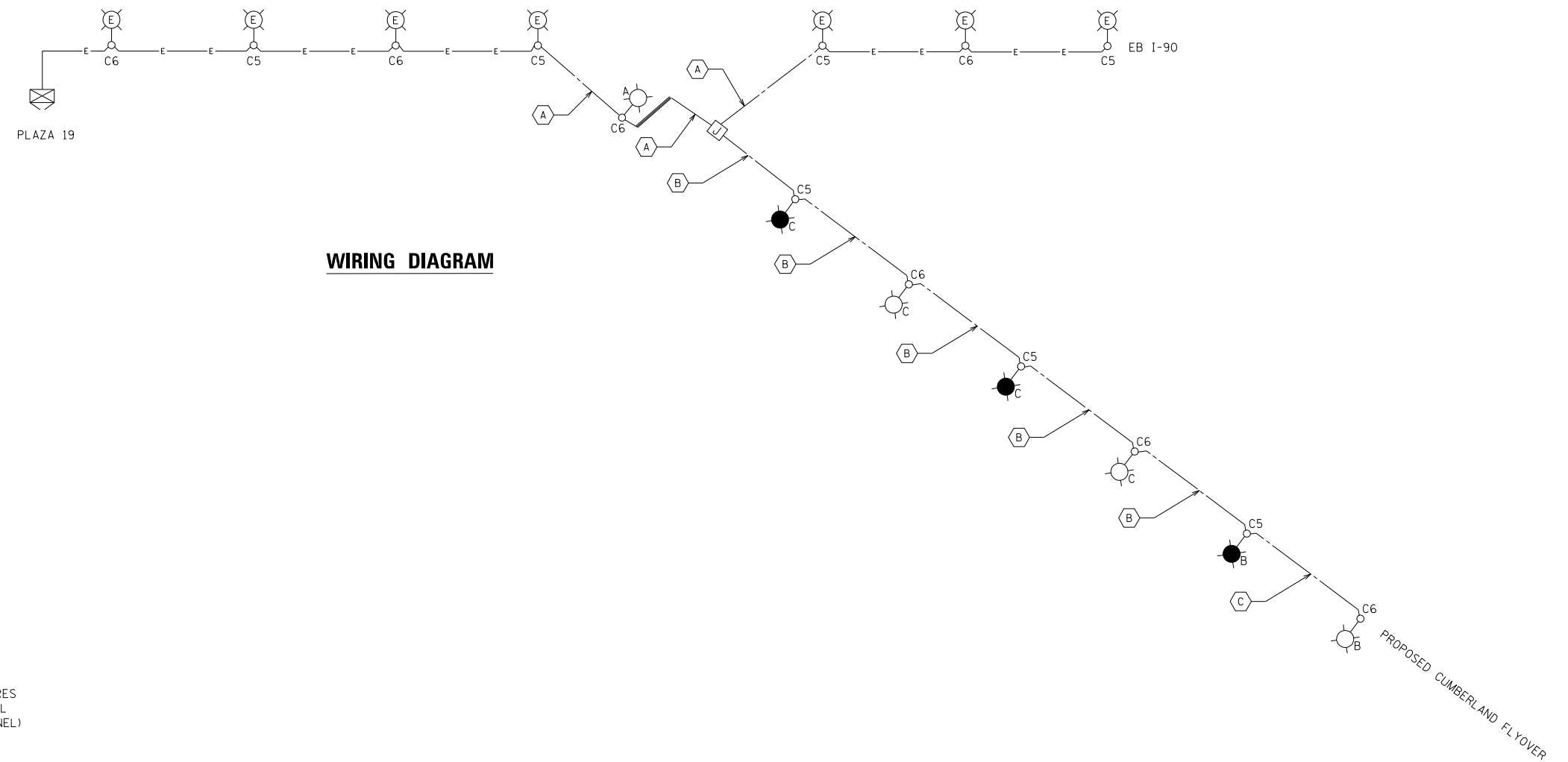
TOLLWAY PROPOSED LIGHTING PLAN
CUMBERLAND FLYOVER RAMP

SCALE: SHEET 2 OF 2 SHEETS STA. 24+00.00 TO STA. 35+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	245
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

LEGEND

- C5 - LIGHTING CIRCUIT C5
- C6 - LIGHTING CIRCUIT C6
-  - EXISTING ILLINOIS TOLLWAY ROADWAY LIGHTING ELECTRICAL PANEL
-  - JUNCTION BOX 18"X18"X8" STAINLESS STEEL



WIRING DIAGRAM

NOTES:

1. EXISTING ILLINOIS TOLLWAY ROADWAY LIGHTING CONTROLLER PANEL IS LOCATED AT PLAZA 19.
2. PROPOSED LIGHT POLES WILL TOLLWAY APPROVED LED LUMINAIRES. CONTRACTOR SHALL VERIFY THAT THE EXISTING LIGHTING PANEL AT PLAZA 19 WILL HAVE ENOUGH CAPACITY FOR THE ADDITIONAL LOAD OF THE PROPOSED LED LUMINAIRES. BY FIELD MEASURING ATTACHED LOAD (THIS CIRCUIT AND ENTIRE PANEL) AND THEN SUBMITTING CALCULATION SHOWING ANTICIPATED LOAD WITH NEW LUMINAIRES (ON BOTH THIS CIRCUIT AND ENTIRE PANEL). SUBMITTAL SHALL INCLUDE NOTED BREAKER SIZE (THIS CIRCUIT AND ENTIRE PANEL) PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE COST OF THE MAINTAIN LIGHTING SYSTEM PAY ITEM (JS846001).

FILE NAME: \\hntb\p0556\hntb\proj\1517R\Documents\1517R\1517R-1190_CumberlandFlyover\Drawings\1517R-1190-01.dgn



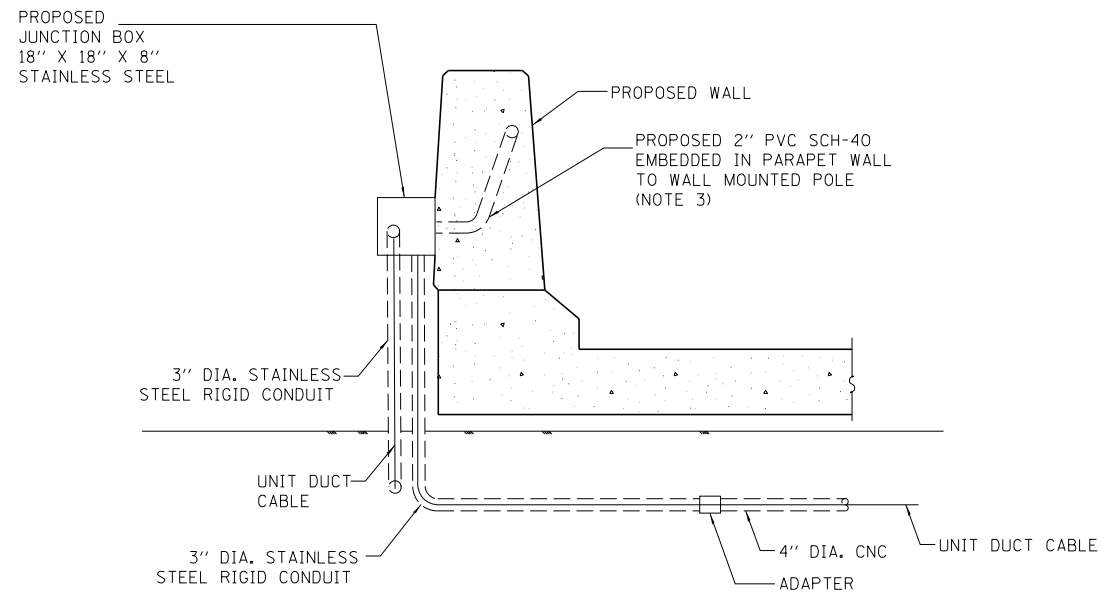
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	DRAWN - AA	REVISED -
PLOT SCALE = 1/8" = 1' / 1/8"	CHECKED - MCD	REVISED -
PLOT DATE = 6/2/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOLLWAY PLAZA 19 ROADWAY LIGHTING PANEL
WIRING DIAGRAM**

SCALE: SHEET 1 OF 1 SHEETS STA. 10+00.00 TO STA. 24+00.00

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 246
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				



**PROPOSED JUNCTION BOX
ATTACHED TO WALL**
N.T.S.

NOTES:

1. GROUNDING OF JUNCTION BOX SHALL BE ACCORDING TO TOLLWAY STANDARD DETAIL H3-03, ALL GROUNDING MATERIALS SHALL BE INCLUDED IN THE COST OF THE JUNCTION BOX.
2. STAINLESS STEEL CONDUIT SHALL NOT BE PAID FOR SEPERATELY, THE COST OF THE STAINLESS STEEL CONDUIT SHALL BE INCLUDED IN THE COST OF THE UNIT DUCT CONDUIT. MINIMUM LENGTH OF STAINLESS STEEL CONDUIT IS TO END OF BELOW GRADE ELBOW.
3. SOME BRIDGE CONDUIT CONNECTION DETAILS OMITTED FOR CLARITY, CONTRACTOR SHALL MAKE CONNECTION TO BRIDGE CONDUITS PER TOLLWAY STANDARD DETAIL H3-03.

FILE NAME: \\hntb\56156\hntb\project\1517R-1130_Cumberland\Drawings\Documents\Circuit\1517R-1130_Cumberland\Drawings\1517R-1130_Cumberland.dgn



USER NAME = konyikwo	DESIGNED - KFA	REVISED -
	DRAWN - AA	REVISED -
PLOT SCALE = 1.0000' / 1in.	CHECKED - MCD	REVISED -
PLOT DATE = 6/2/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOLLWAY FLYOVER AND ROADWAY
LIGHTING CONNECTION DETAILS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. 66+00.00 TO STA. 81+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	247
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

GENERAL I.T.S. NOTES

- THE CONTRACTOR SHALL EXERCISE CARE WITH THE INSTALLATION OF UNDERGROUND EQUIPMENT AS THERE MAY BE EXISTING PRIVATELY OWNED FACILITIES WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ANY UTILITIES IN THE WORK ZONE AND REQUEST UTILITY LOCATES.
- FIBER OPTIC CABLE SLACK SHALL BE AS FOLLOWS: 100 FEET FOR EACH CABLE (96 AND 12 FIBER) AT COMMUNICATIONS VAULTS WHERE SPLICING IS INDICATED. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT COMMUNICATIONS VAULTS WHERE NO SPLICING IS INVOLVED.
- THE ELECTRICAL MAINTENANCE CONTRACTOR (EMC) SHALL BE CONTACTED FOR EXISTING STATE OWNED FACILITIES LOCATES.
- THE 96 STRAND FIBER OPTIC TRUNK CABLE SHALL BE INSTALLED CONTINUOUS. NO END TO END SPLICES OF THE 96 STRAND FIBER OPTIC TRUNK CABLE SHALL BE PERMITTED.
- ALL CONDUIT SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE.
- CONDUIT CROSSING OVER/UNDER OTHER UTILITIES SHALL MAINTAIN A SEPARATION OF AT LEAST 12 INCHES OR AS SPECIFIED BY OWNING UTILITY.
- PROPOSED CONDUIT ROUTES SHOWN IN THE PLANS ARE SCHEMATIC ONLY. CONTRACTOR TO VERIFY EXACT ROUTE WITH FIELD ENGINEER.
- TEMPORARY WOOD POLES NOT SPECIFICALLY CALLED OUT IN THE "ITS REMOVAL PLANS AND ADVANCE WORK" ARE INSTALLED AS PART OF THE TEMPORARY LIGHTING AND WILL NOT BE PAID FOR AS PART OF TEMPORARY ITS WORK.
- EXISTING ITS EQUIPMENT AND CABLING SHALL REMAIN IN PLACE UNTIL TEMPORARY DEVICES ARE INSTALLED AND INTEGRATED.
- TEMPORARY ITS EQUIPMENT AND CABLING SHALL REMAIN IN PLACE UNTIL PERMANENT DEVICES ARE INSTALLED AND INTEGRATED.
- ALL ABANDONED CABLES MUST COMPLY WITH NEC REQUIREMENTS.
- THE LOCATION OF EXISTING UNDERGROUND FACILITIES AS SHOWN ON THE PLANS, INCLUDING FIBER OPTIC CABLE ALONG SOUTH SIDE OF INTERSTATE 90, ARE BASED ON LIMITED RECORDS AVAILABLE AND ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IN ADVANCE OF BEGINNING WORK.

ABBREVIATIONS AND ACRONYMS

NOTATION	DESCRIPTION
AMW	AERIAL MESSENGER WIRE
CNC	COILABLE NONMETALLIC CONDUIT
COMM	COMMUNICATIONS
CSF	CABLE SPLICE, FIBER OPTIC, FUSION
CCTV	CLOSED CIRCUIT TELEVISION
DCF	DISTRIBUTION CABLE, FIBER OPTIC
ECC	ELECTRICAL CABLE IN CONDUIT
EMB	CONDUIT EMBEDDED IN STRUCTURE
ETH	ETHERNET CABLE
FOC	FIBER OPTIC CABLE
FOTP	FIBER OPTIC TERMINATION PANEL
FOSC	FIBER OPTIC SPLICE CLOSURE
FOSE	FIBER OPTIC SPLICE ENCLOSURE
GSC	GALVANIZED STEEL CONDUIT (RIGID)
HH	HANDHOLE
HDHH	HEAVY-DUTY HANDHOLE
IDT	INNERDUCT
LCF	LATERAL CABLE, FIBER OPTIC
TDCF	TEMPORARY DISTRIBUTION CABLE, FIBER OPTIC
SURV	SURVEILLANCE
SWE	ETHERNET SWITCH
TEMP	TEMPORARY
TCF	TRUNK CABLE, FIBER OPTIC
RVSS	RADAR VEHICLE SENSING SYSTEM
E	EXISTING TO REMAIN
R	REMOVE
A	ABANDON IN PLACE
S	REMOVE AND SALVAGE
I	INSTALL
I90	FIBER OPTIC CABLE DESIGNATOR, I-90
I190	FIBER OPTIC CABLE DESIGNATOR, I-190
P19	FIBER OPTIC CABLE DESIGNATOR, PLAZA 19
PS24	FIBER OPTIC CABLE DESIGNATOR, PUMP STATION 24

PLAN CALLOUT/PAY ITEM LEGEND

PLAN CALLOUT	PAY ITEM DESCRIPTION
AMW	SPAN WIRE
2 IN. GSC	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
3 IN. GSC	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
4 IN. GSC	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
1/4 IN. CNC	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.
1/C NO. 4	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4
1/C NO. 4 GROUND	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4
1/C NO. 6	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6
1/C NO. 6 GROUND	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6
1/C NO. 8	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8
1/C NO. 8 GROUND	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8
2-1/C NO. 6 AERIAL	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE
INDUCTION LOOP CABLE	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED
CONCRETE FOUNDATION, TYPE D	CONCRETE FOUNDATION, TYPE D
HH (R), COMM VAULT (R)	REMOVE EXISTING HANDHOLE
CONCRETE FOUNDATION, TYPE D (R)	REMOVE EXISTING CONCRETE FOUNDATION
INDUCTION LOOP DETECTOR	DIGITAL LOOP DETECTOR SENSOR UNIT (4 CHANNEL)
SURV. EQUIP. (R)	REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT
CABINET, MODEL 334	CABINET, MODEL 334
CABINET, MODEL 336	CLOSED CIRCUIT TELEVISION CABINET
1/4 IN. IDT	FIBER OPTIC INNERDUCT 1/4" DIA.
RVSS	RADAR VEHICLE SENSING SYSTEM
ETHERNET SWITCH	ETHERNET SWITCH
CCTV CAMERA EQUIPMENT	CLOSED CIRCUIT TELEVISION CAMERA EQUIPMENT
TEMP. RVDS	RADAR VEHICLE DETECTION SYSTEM
CCTV CAMERA	CLOSED CIRCUIT TELEVISION CAMERA, HD
CCTV CAMERA POLE FOUNDATION	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, FOUNDATION, 80 FT. MOUNTING HEIGHT
CCTV CAMERA POLE	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, GALVANIZED STEEL, 80 FT. MOUNTING HEIGHT
CONCRETE FOUNDATION, CABINET MODEL 334	CONCRETE FOUNDATIONS (SPECIAL)
CABINET, TYPE IV	CABINET HOUSING EQUIPMENT, TYPE IV
96 FOC	FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE
12 FOC	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE
12 FOC AERIAL	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE
CSF-L	FIBER OPTIC SPLICE-LATERAL
FOC (R)	REMOVE FIBER OPTIC CABLE FROM CONDUIT
FOSC	FIBER OPTIC SPLICE CLOSURE, WATERTIGHT
FOSE	FIBER OPTIC SPLICE ENCLOSURE
FOTP	FIBER OPTIC TERMINATION PANEL, 12F OR 24F
TEMP. WOOD POLE	WOOD POLE, 60 FT, CLASS 4
DRILL EXISTING HDHH	DRILL EXISTING HEAVY DUTY HANDHOLE
DRILL EXISTING JB	DRILL EXISTING JUNCTION BOX
POWER SERVICE (R)	REMOVAL OF ELECTRIC SERVICE INSTALLATION
POWER SERVICE (I)	ELECTRIC SERVICE DISCONNECT
UTILITY CONNECTION, POWER	ELECTRIC UTILITY SERVICE CONNECTION
tone EQUIPMENT, TRANSMITTER	tone EQUIPMENT - 3 FREQUENCY TRANSMITTER PROGRAMMABLE
tone EQUIPMENT, POWER SUPPLY	tone EQUIPMENT - POWER SUPPLY
tone EQUIPMENT, MOUNTING FRAME	tone EQUIPMENT - MOUNTING FRAME
SURV. CABLE (R)	REMOVE ELECTRIC CABLE FROM CONDUIT
2/C NO. 6 (R)	
6/C NO. 19 (R)	
3/C NO. 10 (R)	
6 PAIR NO. 19 (I)	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 19 6 PAIR

PLAN LEGEND

EXISTING	PROPOSED	
		CONDUIT AS LABELED ON PLANS
		FIBER OPTIC CABLE AS LABELED ON PLANS
		SURVEILLANCE CABLES
		POWER CABLES AS LABELED ON PLANS
		AERIAL MESSENGER WIRE
		INDUCTION LOOP CABLES
		TELEPHONE BACKHAUL CABLES AS LABELED ON PLANS
		CCTV CABLES
		CABLE TO BE REMOVED OR ABANDONED
		CCTV CAMERA
		SURVEILLANCE/INDUCTION LOOP
		RADAR VEHICLE SENSOR
		SOLAR POWER ARRAY
		GROUND-MOUNTED CABINET (TYPE SPECIFIED ON PLANS)
		POLE-MOUNTED CABINET (CABINET, MODEL 336)
		LIGHTING CONTROLLER
		POWER SERVICE
		HANDHOLE
		HEAVY-DUTY HANDHOLE
		COMMUNICATIONS VAULT
		JUNCTION BOX
		HIGH MAST LIGHT TOWER WITH CCTV CAMERA
		80' CCTV CAMERA POLE
		30' DETECTOR POLE
		TEMPORARY WOOD POLE, 60 FT. (50 FT. ABOVE GROUND LINE)
		TEMPORARY WOOD POLE, 100 FT. (SEE LIGHTING PLANS FOR DETAILS)

ITS-01

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS NOTES AND LEGENDS
CUMBERLAND FLYOVER PROJECT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	248
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

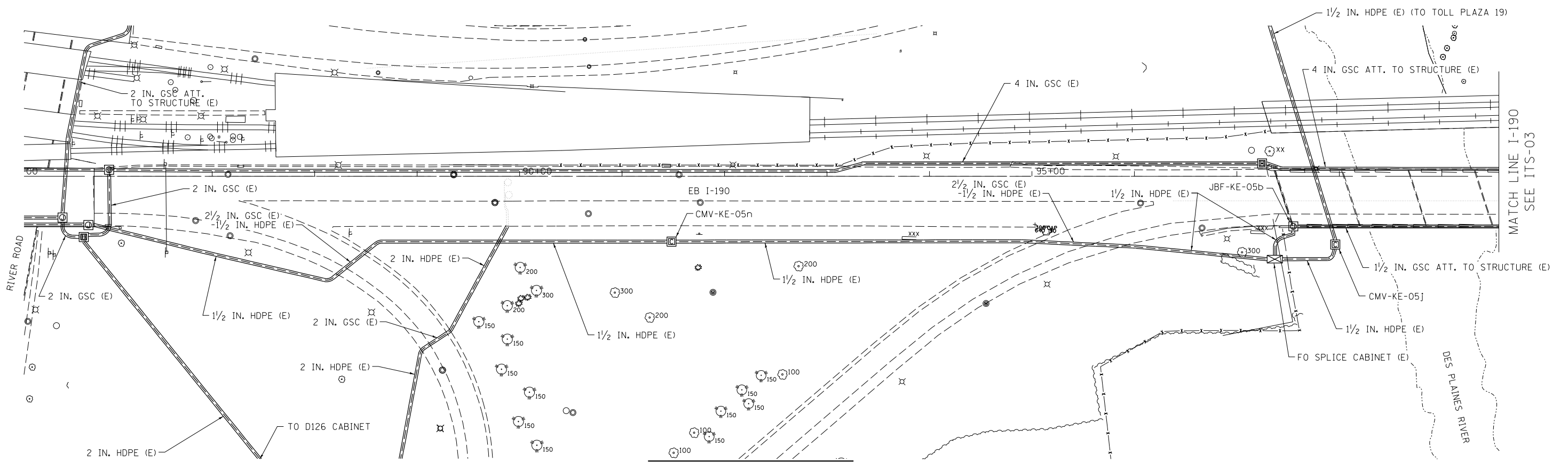
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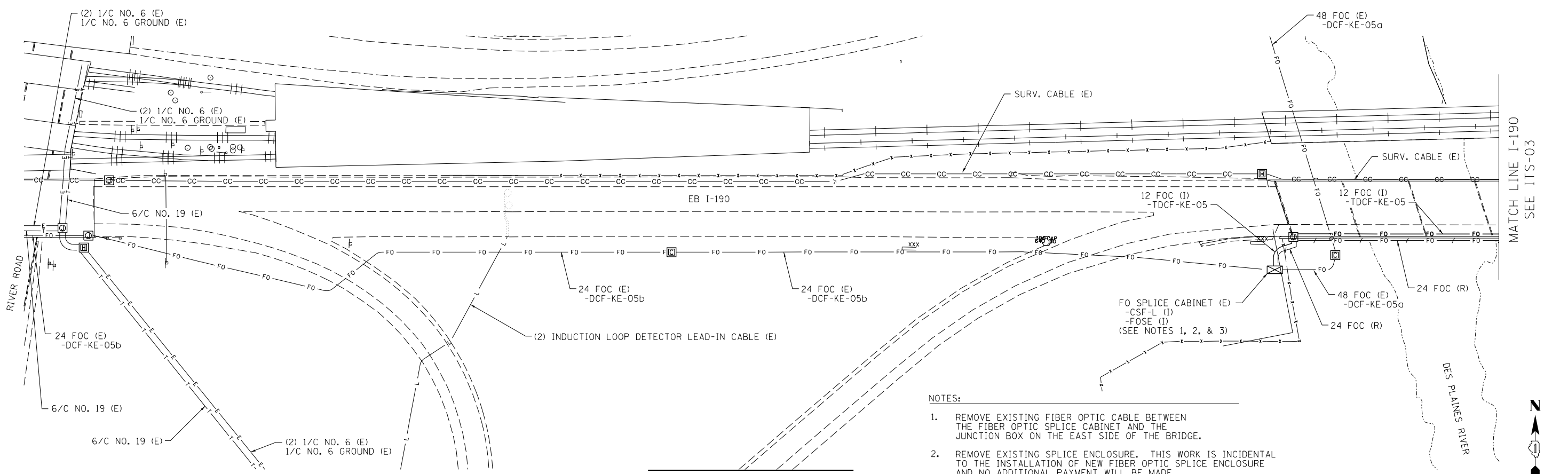
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6/2/2016

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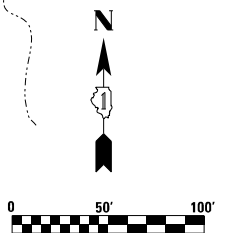


CONDUIT PLAN VIEW



CABLE PLAN VIEW

- NOTES:
1. REMOVE EXISTING FIBER OPTIC CABLE BETWEEN THE FIBER OPTIC SPLICE CABINET AND THE JUNCTION BOX ON THE EAST SIDE OF THE BRIDGE.
 2. REMOVE EXISTING SPLICE ENCLOSURE. THIS WORK IS INCIDENTAL TO THE INSTALLATION OF NEW FIBER OPTIC SPLICE ENCLOSURE AND NO ADDITIONAL PAYMENT WILL BE MADE.
 3. WORK MUST BE STAGED TO MINIMIZE DOWNTIME OF EXISTING SYSTEM OPERATIONS BY MAXIMIZING CABLE AND EQUIPMENT INSTALLATIONS PRIOR TO SWITCH-OVER.



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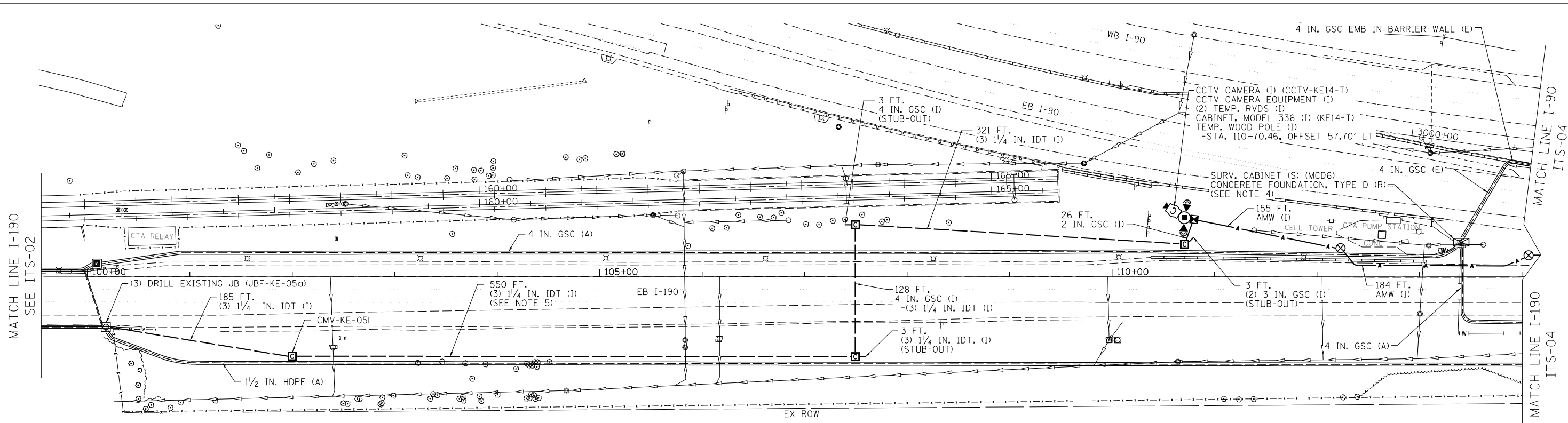
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

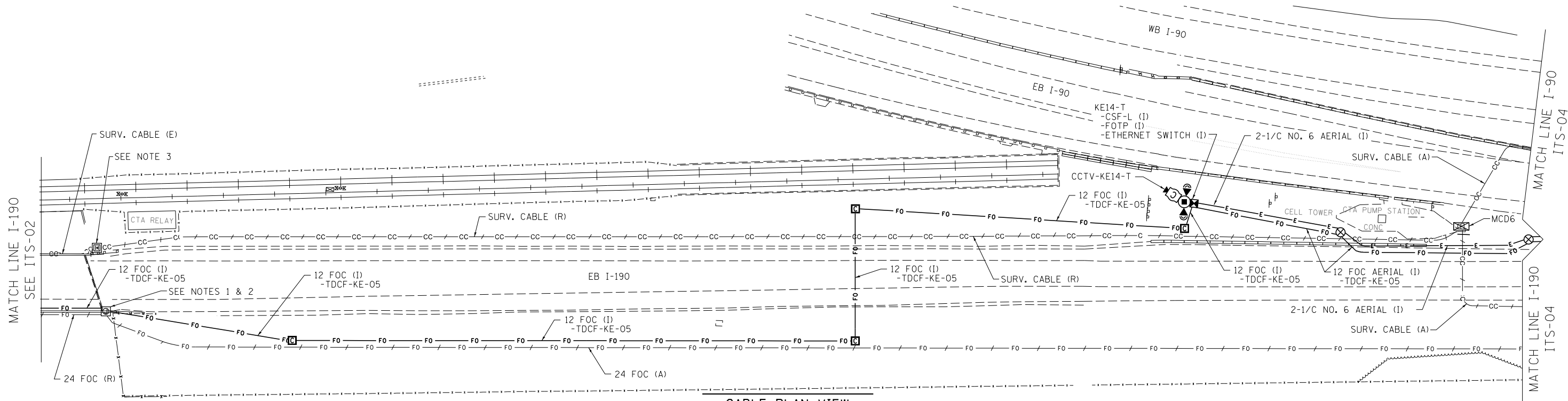
ITS REMOVAL PLANS AND ADVANCE WORK
CUMBERLAND FLYOVER PROJECT

SCALE: 1" = 50' SHEET 1 OF 5 SHEETS STA. TO STA.

ITS-02		TOTAL SHEETS	580	SHEET NO.	249
F.A.I. RTE.	SECTION	COUNTY	CONTRACT NO. 60X56		
190	1517R-1(13)	COOK	ILLINOIS FED. AID PROJECT		



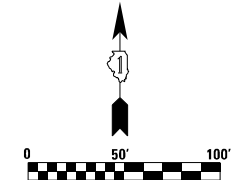
CONDUIT PLAN VIEW



CABLE PLAN VIEW

NOTES:

- CUT EXISTING FIBER OPTIC CABLE.
- REMOVE EXISTING FIBER OPTIC CABLE BETWEEN THE JUNCTION BOX AND THE FIBER OPTIC SPLICE CABINET ON THE WEST SIDE OF THE BRIDGE.
- EXISTING SURVEILLANCE CABLE IS NOT IN USE. CONTRACTOR SHALL CUT EXISTING SURVEILLANCE CABLE INSIDE HANDHOLE TO PREVENT INADVERTENT PULLING DURING CONSTRUCTION. CABLE CUT SHALL BE INCLUDED AS PART OF THE EXISTING CABLE REMOVAL. REMOVE EXISTING CABLE FROM THIS HANDHOLE TO THE EXISTING SURV. CABINET TO THE EAST.
- REMOVAL AND SALVAGING OF CAMERAS, CABINETS, AND EQUIPMENT IS PAID FOR AS REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT. DELIVER TO THE DEPARTMENT (DISTRICT 1).
- NEW CONDUIT SHALL BE ROUTED TO CLEAR IMPACTS FROM THE CONSTRUCTION OF PIER FOUNDATIONS FOR THE NEW CUMBERLAND FLYOVER STRUCTURE.



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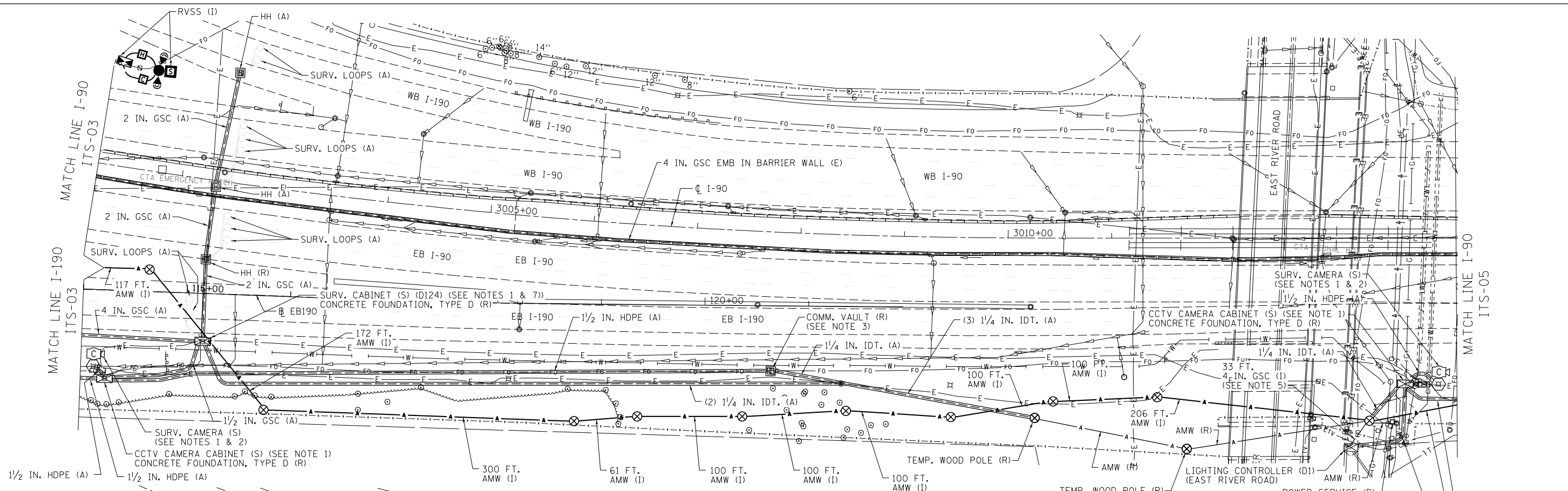
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS AND ADVANCE WORK
CUMBERLAND FLYOVER PROJECT

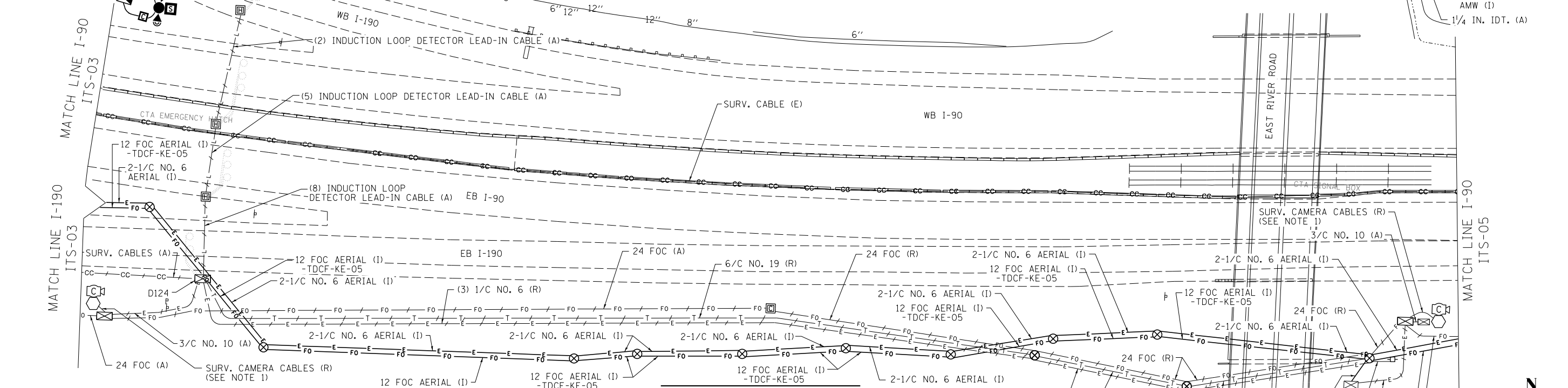
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F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190		1517R-1(13)	COOK	580	250
				CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT					

ITS-03

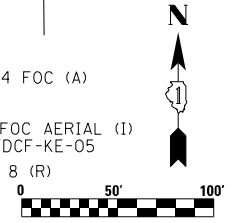


CONDUIT PLAN VIEW



CABLE PLAN VIEW

- NOTES:
- REMOVAL AND SALVAGING OF CAMERAS, CABINETS, AND EQUIPMENT IS PAID FOR AS REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT. DELIVER TO THE DEPARTMENT (DISTRICT 1).
 - COORDINATE CAMERA REMOVAL WITH HIGH MAST LIGHT TOWER REMOVAL.
 - COMMUNICATIONS VAULT REMOVAL IS PAID FOR AS REMOVE EXISTING HANDHOLE.
 - REMOVAL OF EXISTING AERIAL CABLES, WOOD POLES, AND SPAN WIRE SHALL BE PAID FOR AS PART OF REMOVE TEMPORARY INTERCONNECT.
 - ATTACH PROPOSED CONDUIT TO EXISTING STUB-OUT. REMOVE CONDUIT AFTER PERMANENT ITS POWER SYSTEM IS ESTABLISHED. REMOVAL OF TEMPORARY POWER CONDUIT AND CABLE SHALL BE PAID FOR AS PART OF REMOVE TEMPORARY INTERCONNECT.
 - NOT USED.
 - REMOVE AND RETAIN EXISTING TELEPHONE CONNECTION EQUIPMENT FOR FUTURE INSTALLATION IN NEW D124 CABINET. THIS WORK IS INCLUDED IN THE COST OF REMOVING THE EXISTING SURVEILLANCE CABINET.
 - DISCONNECT THE 6/C NO. 19 ELECTRIC CABLE FROM THE EXISTING TELEPHONE SERVICE. EXISTING TELEPHONE SERVICE SHALL REMAIN AND BE REUSED FOLLOWING INSTALLATION OF NEW D124 CABINET.



USER NAME = r.jankowski	DESIGNED - JZ	REVISED -
PLOT SCALE = 1:8000' / 1"	DRAWN - JZ	REVISED -
PLOT DATE = 6/2/2016	CHECKED - YJ	REVISED -
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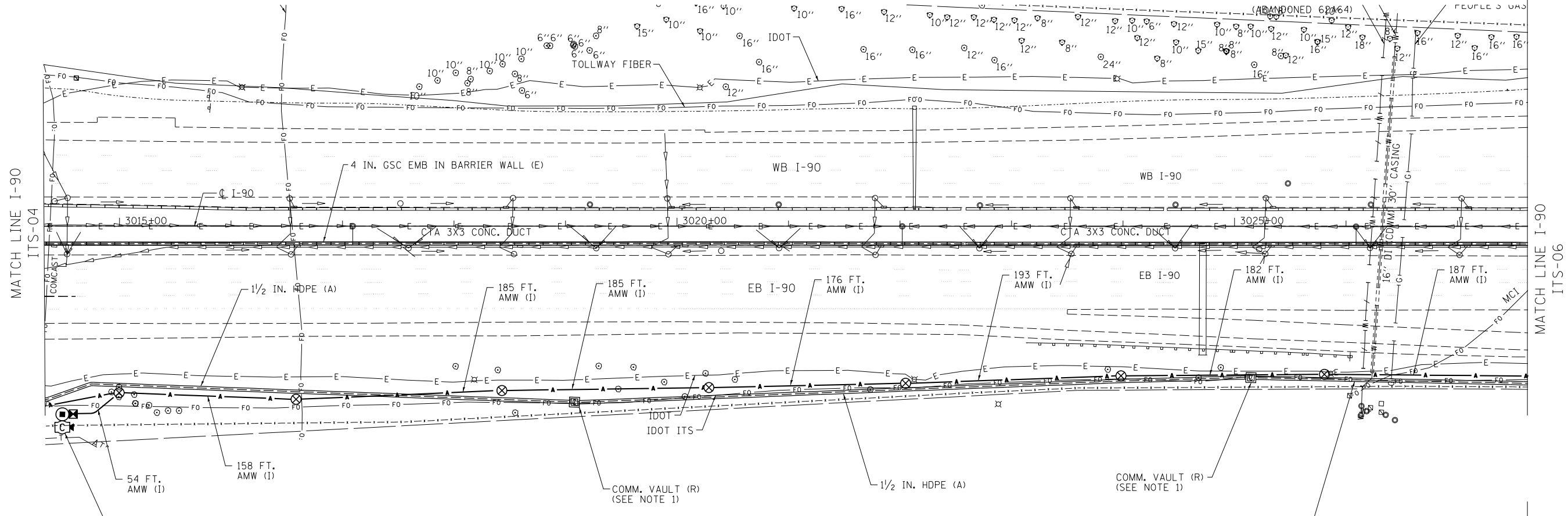
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS AND ADVANCE WORK
CUMBERLAND FLYOVER PROJECT
SCALE: 1" = 50'
SHEET 3 OF 5 SHEETS
STA. 114+00.00 TO STA. 508+00.00

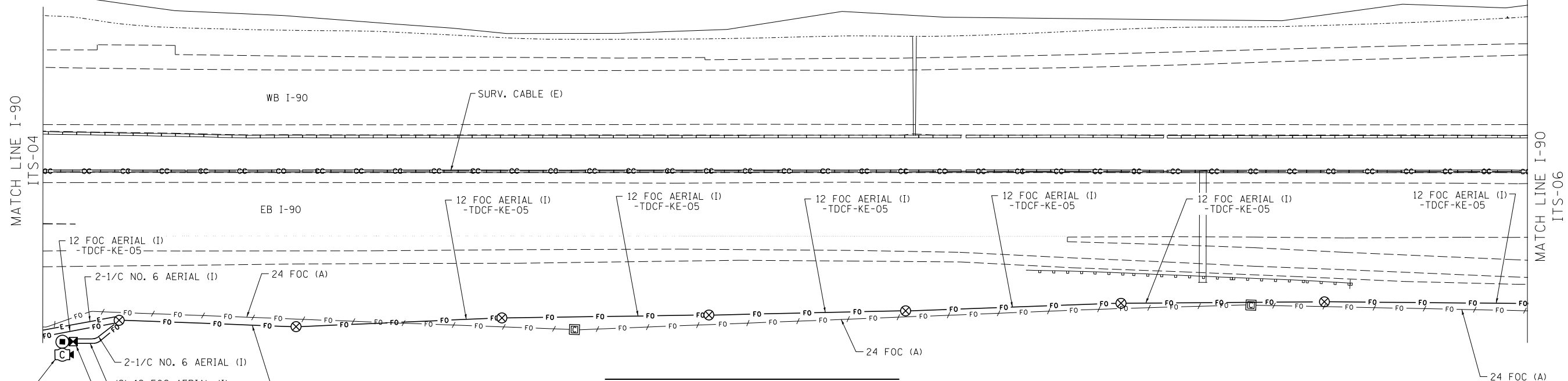
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	251
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-04

6/2/2016 r.jankowski



CONDUIT PLAN VIEW

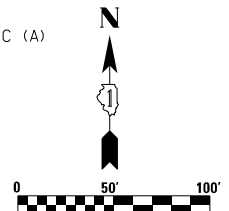


CABLE PLAN VIEW

CCTV CAMERA (I) (CCTV-KE13A-T)
 CCTV CAMERA EQUIPMENT (I)
 CABINET, MODEL 336 (I) (KE13A-T)
 TEMP. WOOD POLE (I)
 -STA. 3014+48.85, OFFSET 167.23' RT

KE13A-T
 -CSF-L (I)
 -FOTP (I)
 -ETHERNET SWITCH (I)

NOTES:
 1. COMMUNICATIONS VAULT REMOVAL IS PAID FOR AS REMOVE EXISTING HANDHOLE.



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USER NAME = mikosir	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
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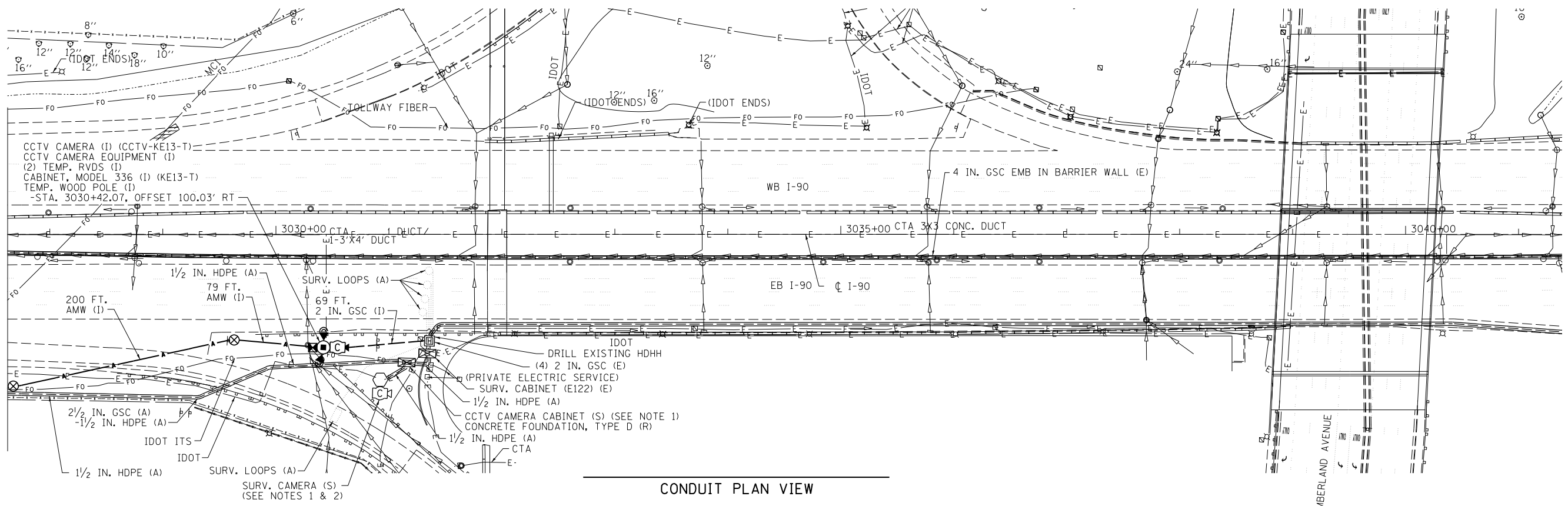
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ITS REMOVAL PLANS AND ADVANCE WORK
 CUMBERLAND FLYOVER PROJECT
 SCALE: 1" = 50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	252
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

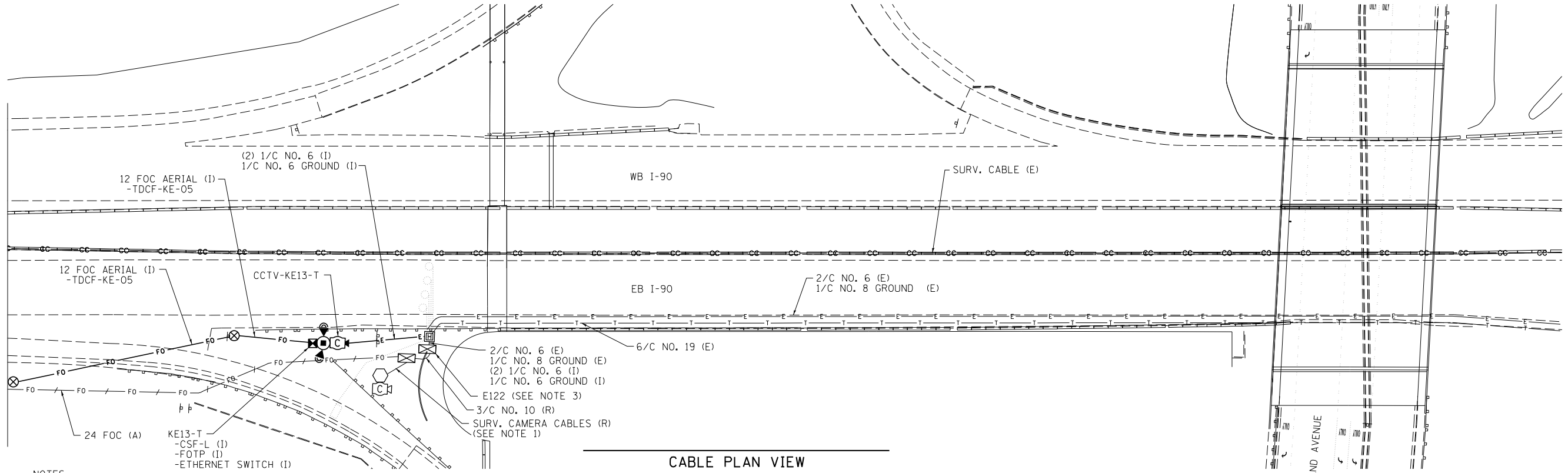
ITS-05

MATCH LINE PR EBCD
STA. 521+50
ITS-10



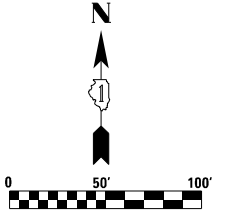
CONDUIT PLAN VIEW

MATCH LINE PR EBCD
STA. 521+50
ITS-10



CABLE PLAN VIEW

- NOTES:
- REMOVAL AND SALVAGING OF CAMERAS, CABINETS, AND EQUIPMENT IS PAID FOR AS REMOVE EXISTING SURVEILLANCE CAMERA EQUIPMENT. DELIVER TO THE DEPARTMENT (DISTRICT 1).
 - COORDINATE CAMERA REMOVAL WITH HIGH MAST LIGHT TOWER REMOVAL.
 - SPlice NEW ELECTRIC CABLE TO EXISTING ELECTRIC SERVICE CABLE RUNNING TO THE EAST TO PROVIDE POWER TO TEMPORARY EQUIPMENT ON WOOD POLE. SPlicing SHALL BE INCLUDED AS PART OF THE NEW ELECTRIC CABLE.



FILE NAME: ...D:\2025\521+50-528+19\ITS-06.dgn



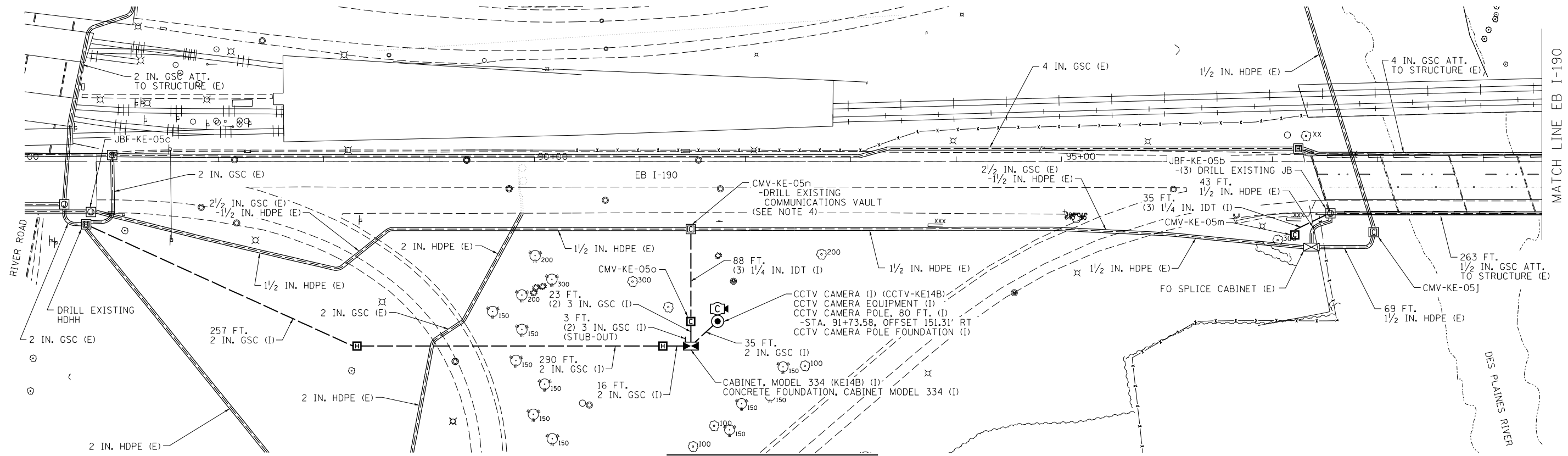
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	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

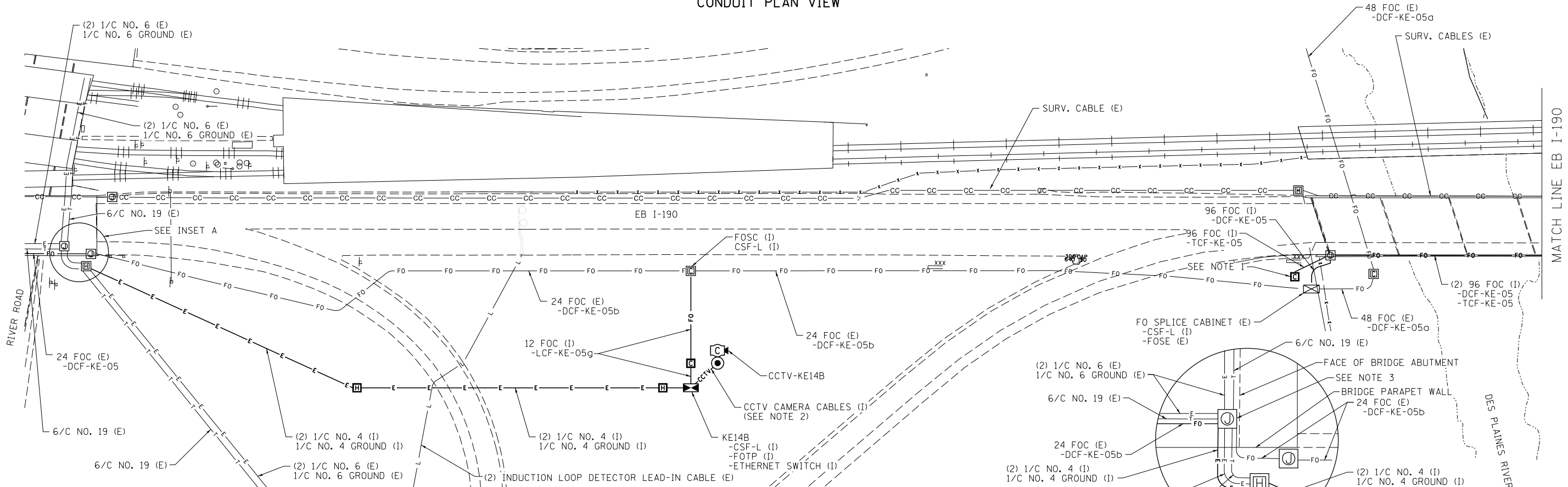
ITS REMOVAL PLANS AND ADVANCE WORK
CUMBERLAND FLYOVER PROJECT
SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. 521+50.00 TO STA. 528+19.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	253
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

ITS-06

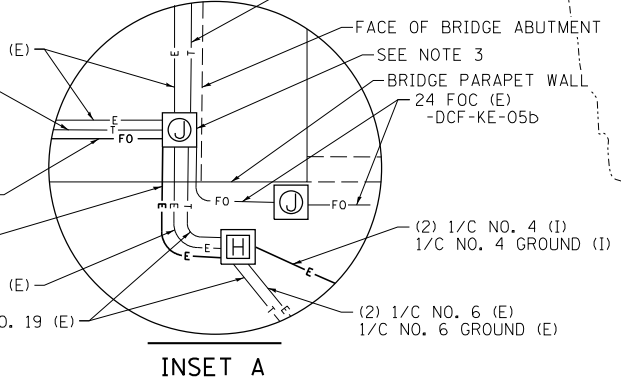


CONDUIT PLAN VIEW

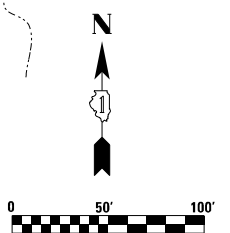


CABLE PLAN VIEW

- NOTES:
1. STORE 700 FEET OF FOC SLACK IN NEW COMMUNICATIONS VAULT FOR FUTURE CONNECTION WITH A COMMUNICATIONS SHELTER TO THE WEST.
 2. CCTV CAMERA CABLES ARE INCLUDED AS PART OF "CCTV CAMERA EQUIPMENT" AND NO SEPARATE PAYMENT WILL BE MADE.
 3. SPLICE NEW ELECTRIC CABLE TO EXISTING ELECTRIC SERVICE CABLE RUNNING TO THE NORTH TO PROVIDE POWER TO CCTV CAMERA CABINET. SPLICING SHALL BE INCLUDED AS PART OF THE NEW ELECTRIC CABLE.
 4. DRILL EXISTING COMMUNICATIONS VAULT TO BE PAID FOR AS DRILL EXISTING HEAVY DUTY HANDHOLE.



INSET A



MATCH LINE EB I-190
SEE ITS-08

MATCH LINE EB I-190
SEE ITS-08



USER NAME = mikosir	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / 1"	CHECKED - YJ	REVISED -
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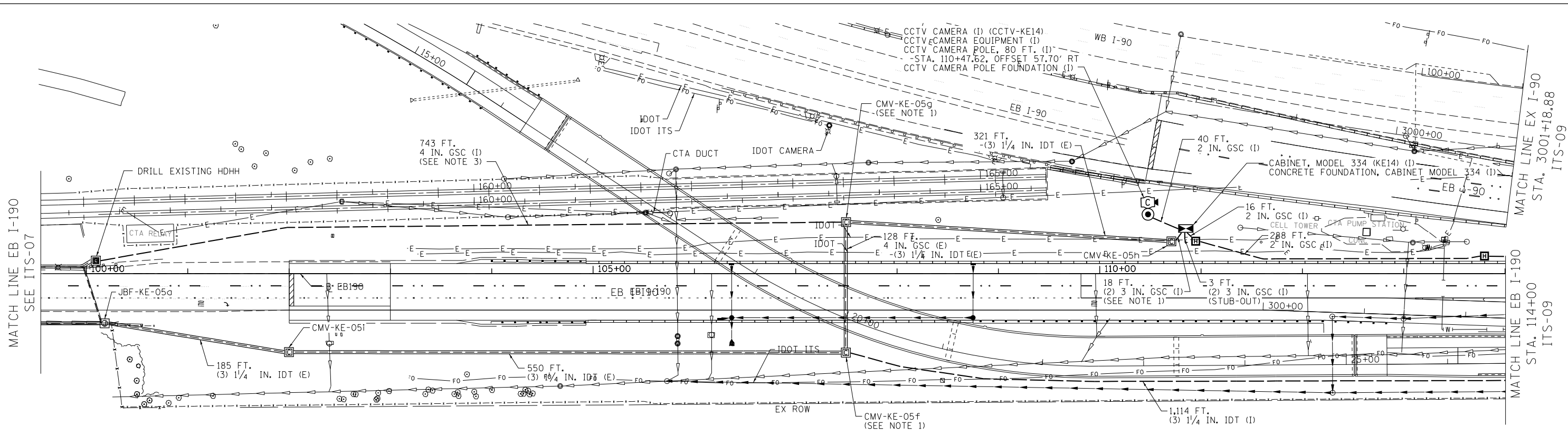
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PROPOSED CONDUIT AND CABLE PLANS
CUMBERLAND FLYOVER PROJECT

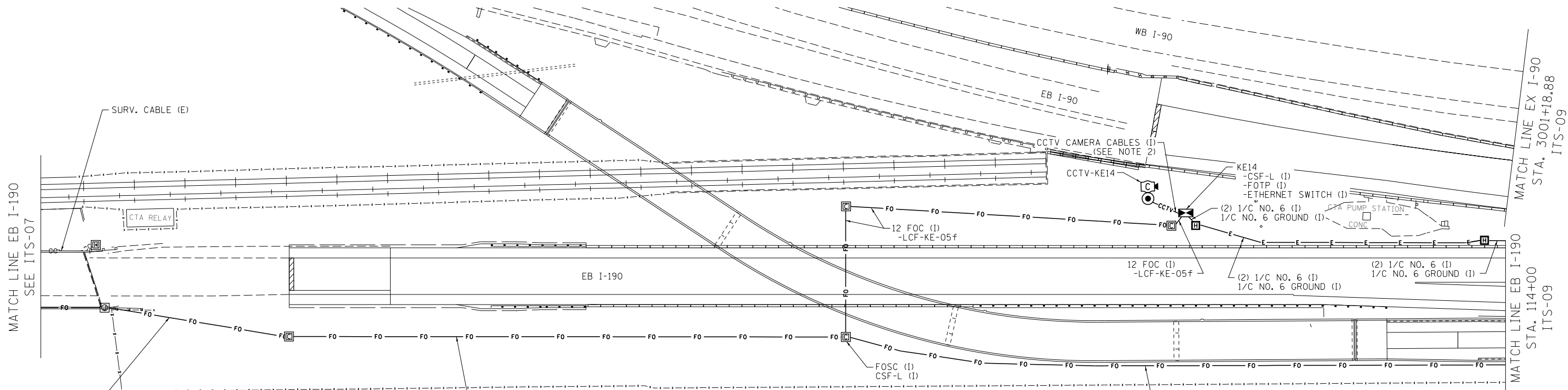
SCALE: 1" = 50' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	254
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-07

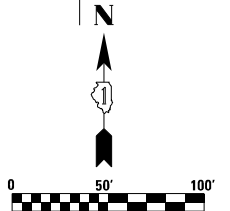


CONDUIT PLAN VIEW



CABLE PLAN VIEW

- NOTES:
1. ATTACH NEW CONDUIT TO EXISTING CONDUIT STUB-OUT.
 2. CCTV CAMERA CABLES ARE INCLUDED AS PART OF "CCTV CAMERA EQUIPMENT" AND NO SEPARATE PAYMENT WILL BE MADE.
 3. EMPTY CONDUIT INSTALLED TO ACCOMMODATE FUTURE CONNECTION OF CONDUIT SYSTEM IN BARRIER WALL BY OTHERS.



USER NAME = mikosir	DESIGNED - JZ	REVISED -
DRAWN - JZ	REVISED -	
PLOT SCALE = 1/80' / 1"	CHECKED - YJ	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

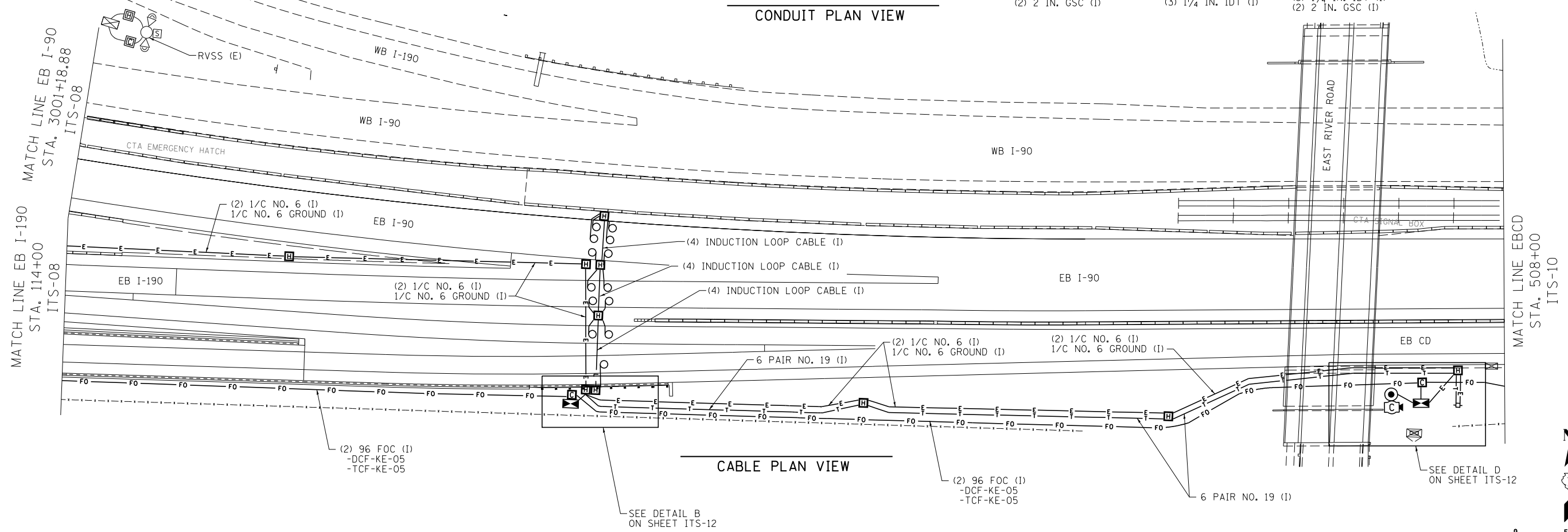
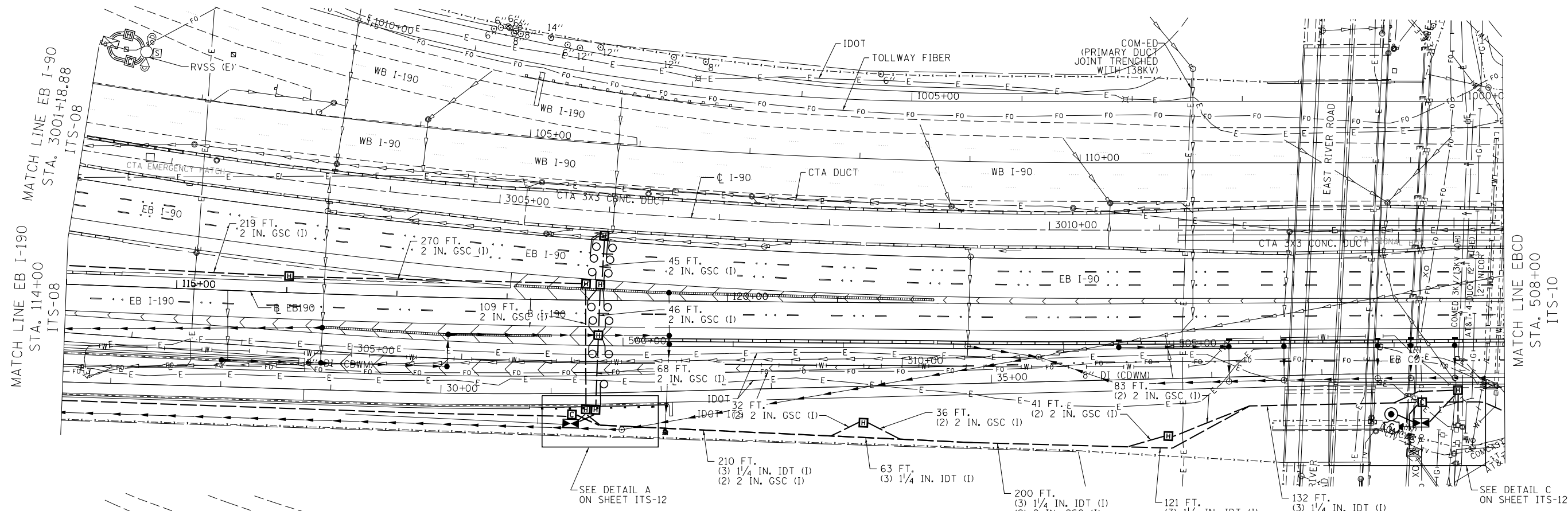
ITS PROPOSED CONDUIT AND CABLE PLANS
CUMBERLAND FLYOVER PROJECT
SCALE: 1/16" = 50' SHEET 2 OF 5 SHEETS STA. 100+00.00 TO STA. 114+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	255
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

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ITS-08

6/2/2016
 r_jankowski
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

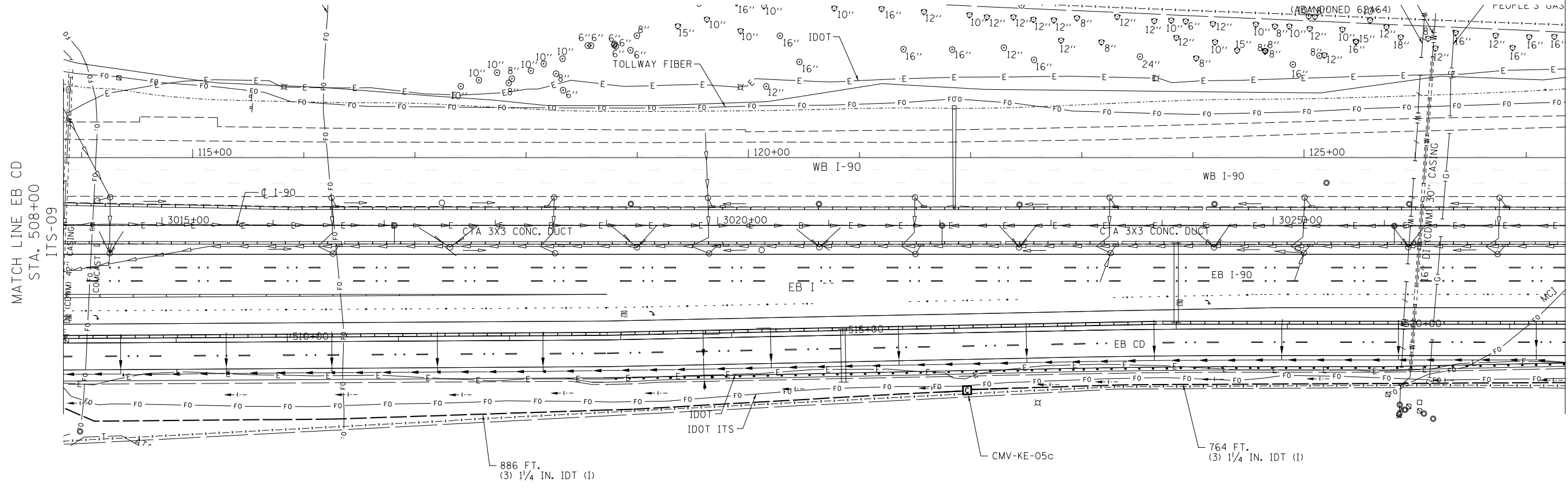
**ITS PROPOSED CONDUIT AND CABLE PLANS
 CUMBERLAND FLYOVER PROJECT**

SCALE: 1" = 50' SHEET 3 OF 5 SHEETS STA. 114+00.00 TO STA. 508+00.00

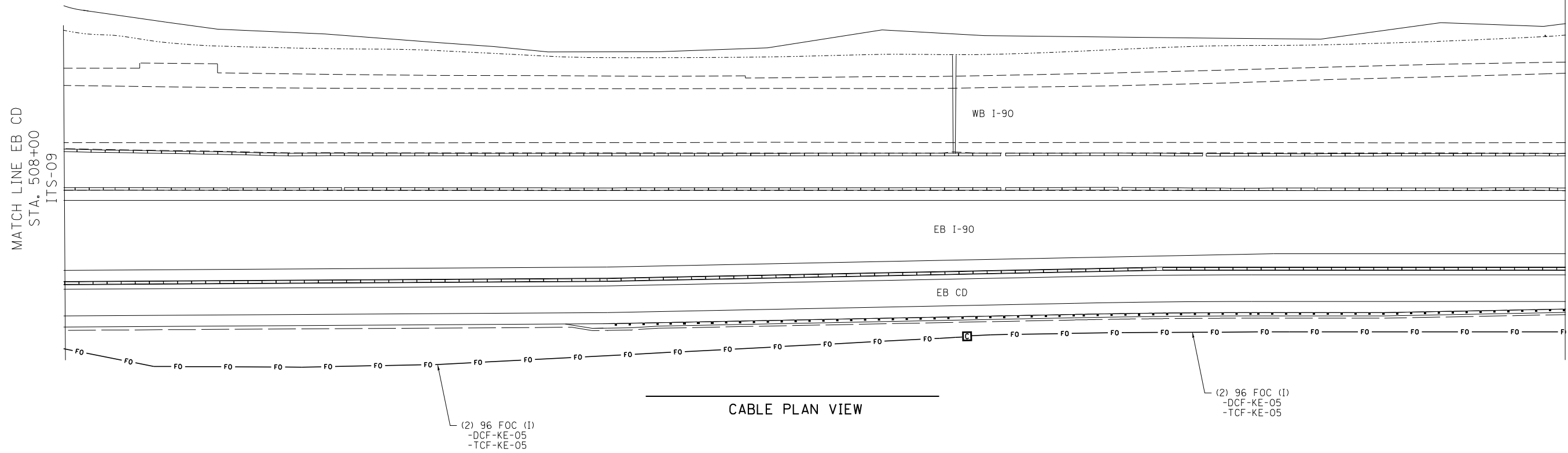
F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 256
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60X56



ITS-09



CONDUIT PLAN VIEW



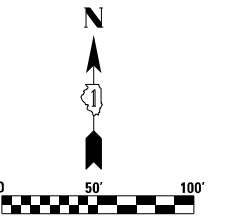
CABLE PLAN VIEW

MATCH LINE EB CD
STA. 508+00
ITS-09

MATCH LINE PR EB CD
STA. 521+50
ITS-11

MATCH LINE EB CD
STA. 508+00
ITS-09

MATCH LINE PR EB CD
STA. 521+50
ITS-11



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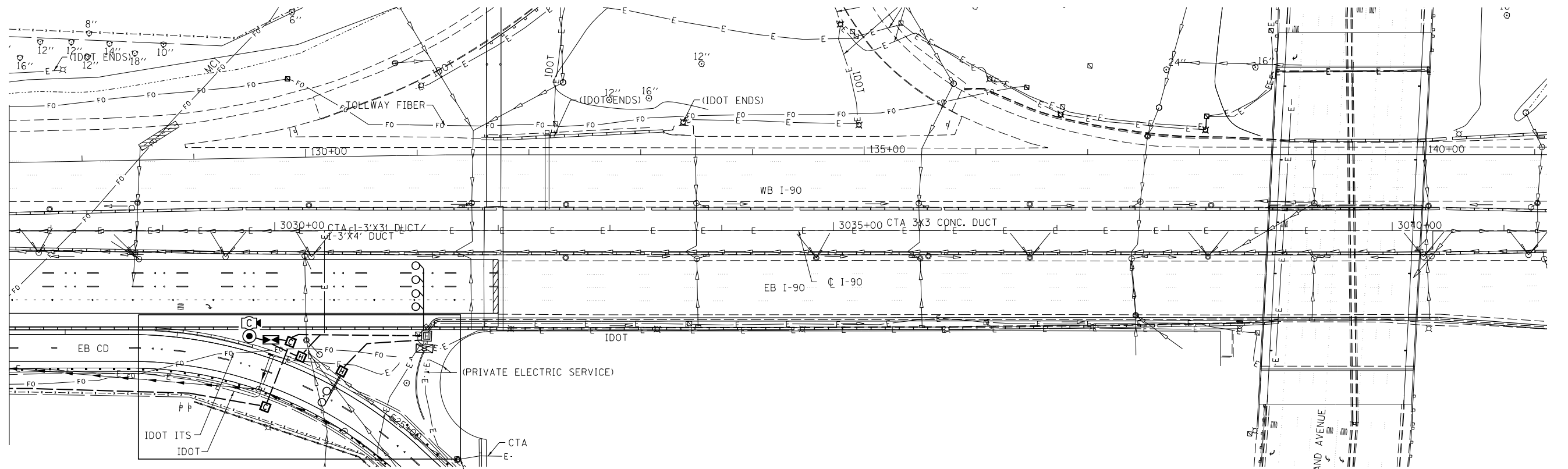
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS PROPOSED CONDUIT AND CABLE PLANS CUMBERLAND FLYOVER PROJECT			
SCALE: 1" = 50'	SHEET 4	OF 5 SHEETS	STA. 508+00.00 TO STA. 521+50.00

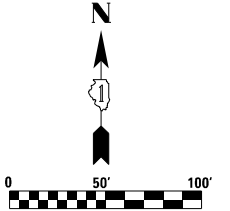
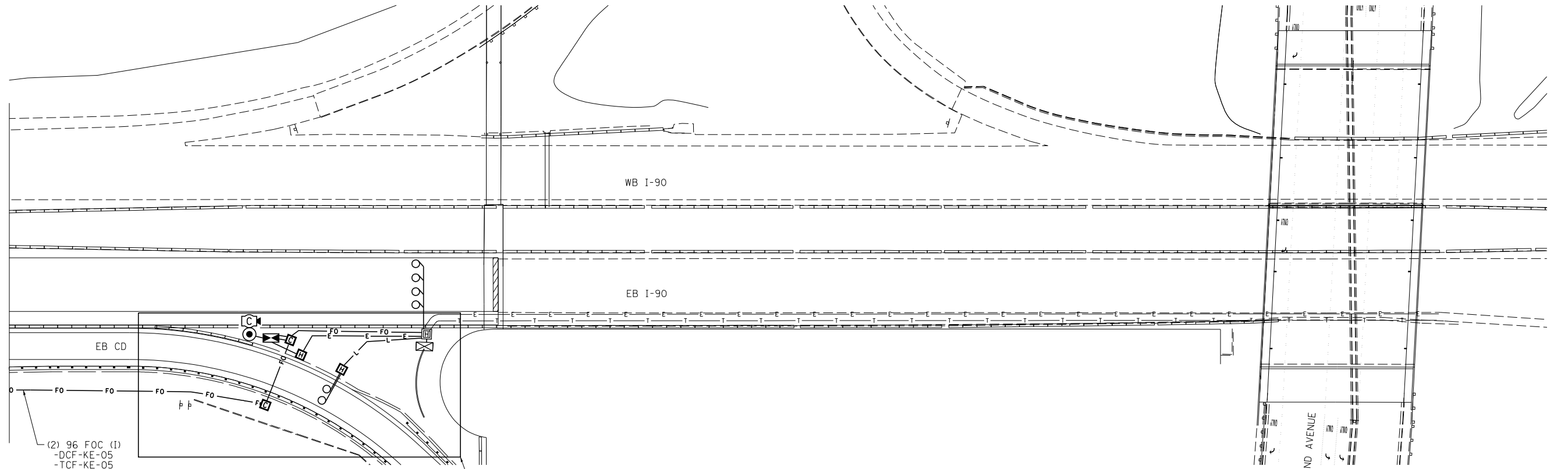
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	257
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-10

MATCH LINE PR EBCD
STA. 521+50
ITS-10



MATCH LINE PR EBCD
STA. 521+50
ITS-10



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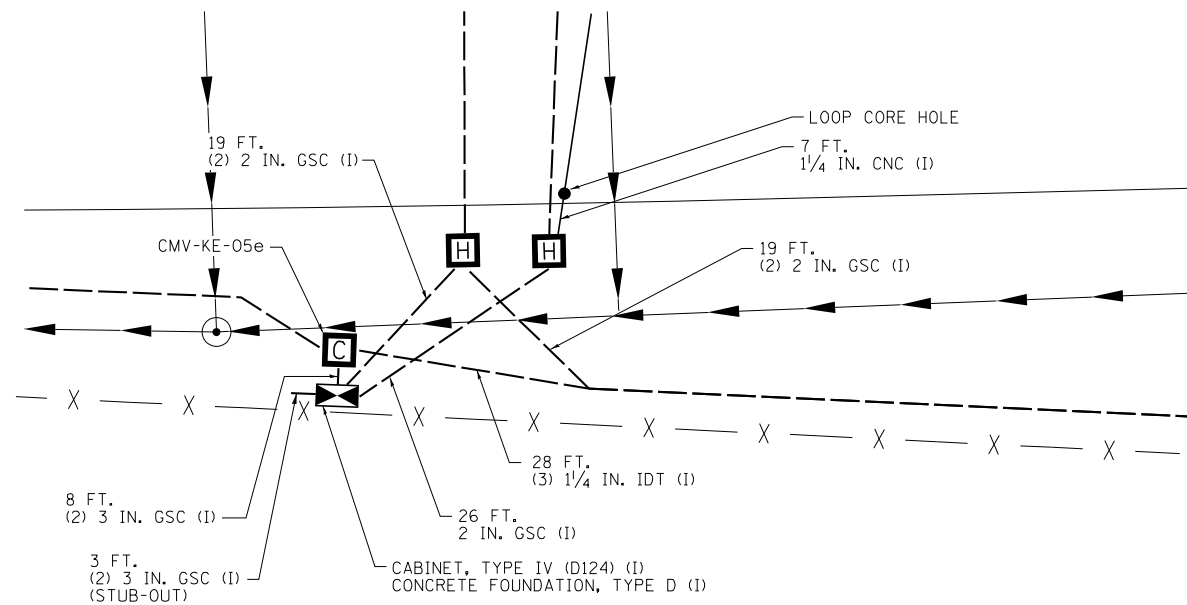
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	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

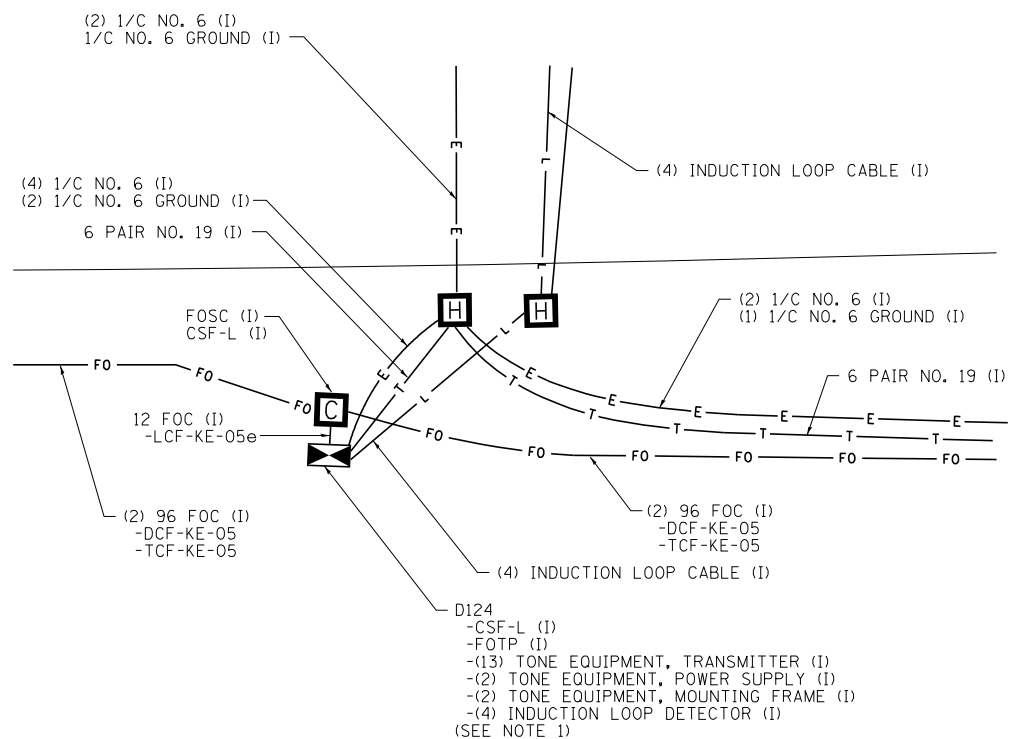
ITS PROPOSED CONDUIT AND CABLE PLANS
CUMBERLAND FLYOVER PROJECT

SCALE: 1" = 50' SHEET 5 OF 5 SHEETS STA. 521+50.00 TO STA. 528+19.00

ITS-11		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		190	1517R-1(13)	COOK	580	258
		CONTRACT NO. 60X56				ILLINOIS FED. AID PROJECT



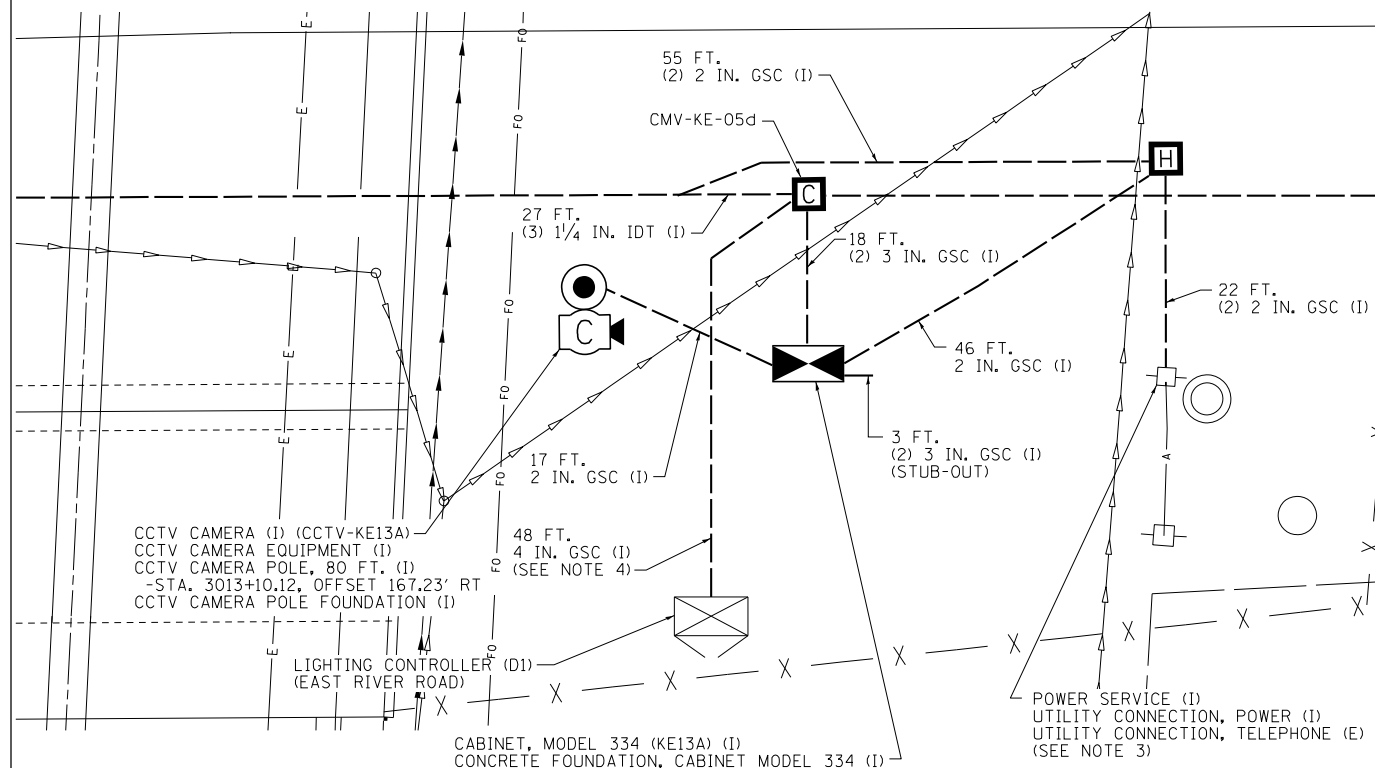
DETAIL A - CONDUIT INSTALLATION



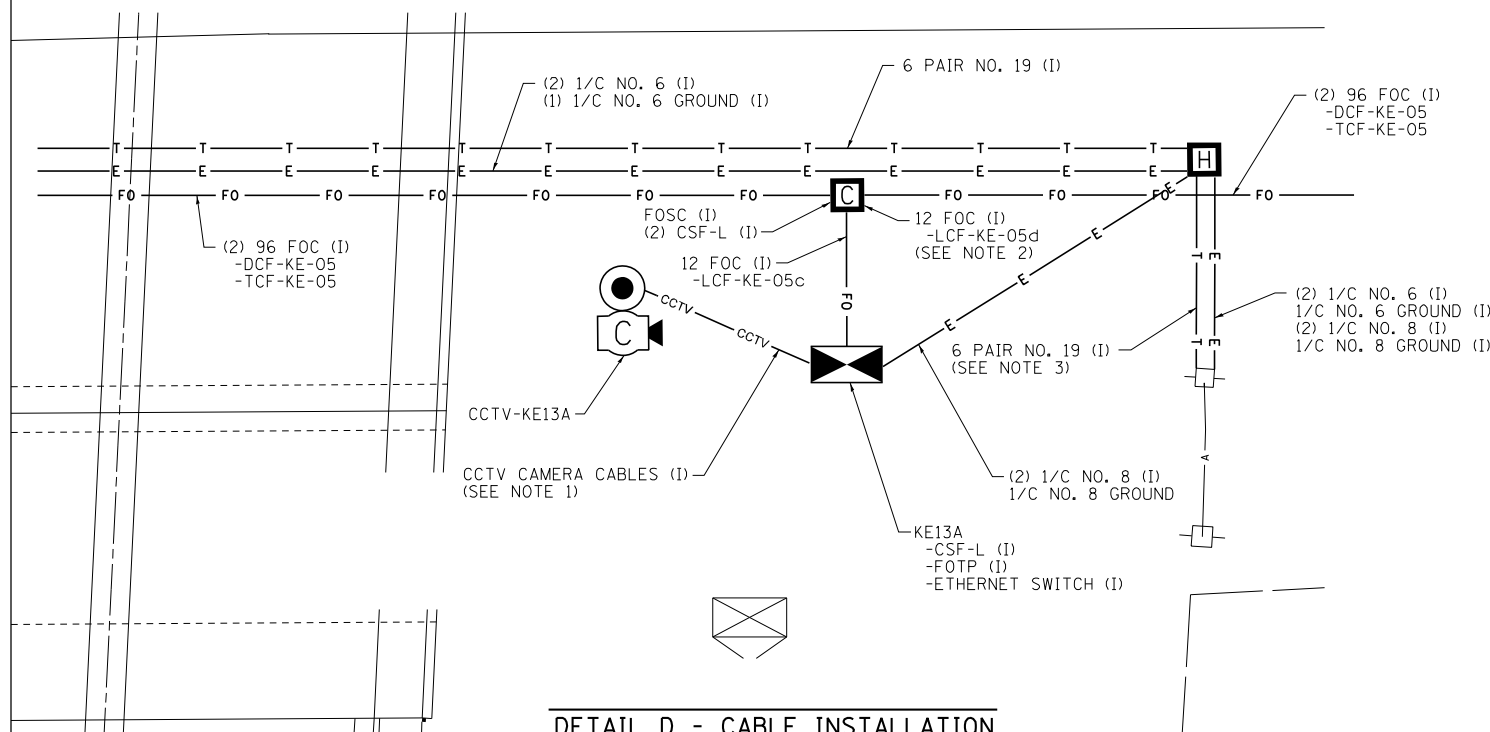
DETAIL B - CABLE INSTALLATION

NOTES:

1. SPLICE ELECTRIC CABLES. SPLICING SHALL BE INCLUDED AS PART OF NEW ELECTRIC CABLE.
2. INSTALL SALVAGED TELEPHONE CONNECTION EQUIPMENT TAKEN FROM SURV. CABINET DURING ADVANCE WORK. THIS WORK IS INCLUDED IN THE COST OF INSTALLING 6 PAIR NO. 19 ELECTRIC CABLE.



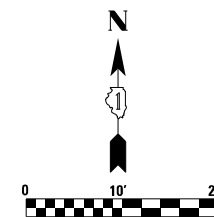
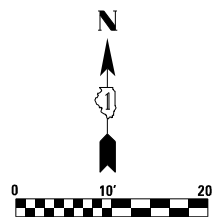
DETAIL C - CONDUIT INSTALLATION



DETAIL D - CABLE INSTALLATION

NOTES:

1. CCTV CAMERA CABLES ARE INCLUDED AS PART OF "CCTV CAMERA EQUIPMENT" AND NO SEPARATE PAYMENT WILL BE MADE.
2. INSTALL 200 FEET OF 12 FOC (LCF-KE-05d) AND COIL IN COMM VAULT FOR FUTURE CONNECTION TO LIGHTING CONTROLLER.
3. CONNECT THE 6 PAIR NO. 19 ELECTRIC CABLE TO THE EXISTING TELEPHONE SERVICE. THIS WORK IS INCLUDED AS PART OF NEW ELECTRIC CABLE.
4. ATTACH NEW CONDUIT TO EXISTING CONDUIT STUB-OUT.



FILE NAME = r_jankowski
 ...D:\2016\1517R-113\1517R-113-station-det-02.dgn
 6/2/2016
 r_jankowski



USER NAME = r_jankowski	DESIGNED - RJ	REVISED -
	DRAWN - RJ	REVISED -
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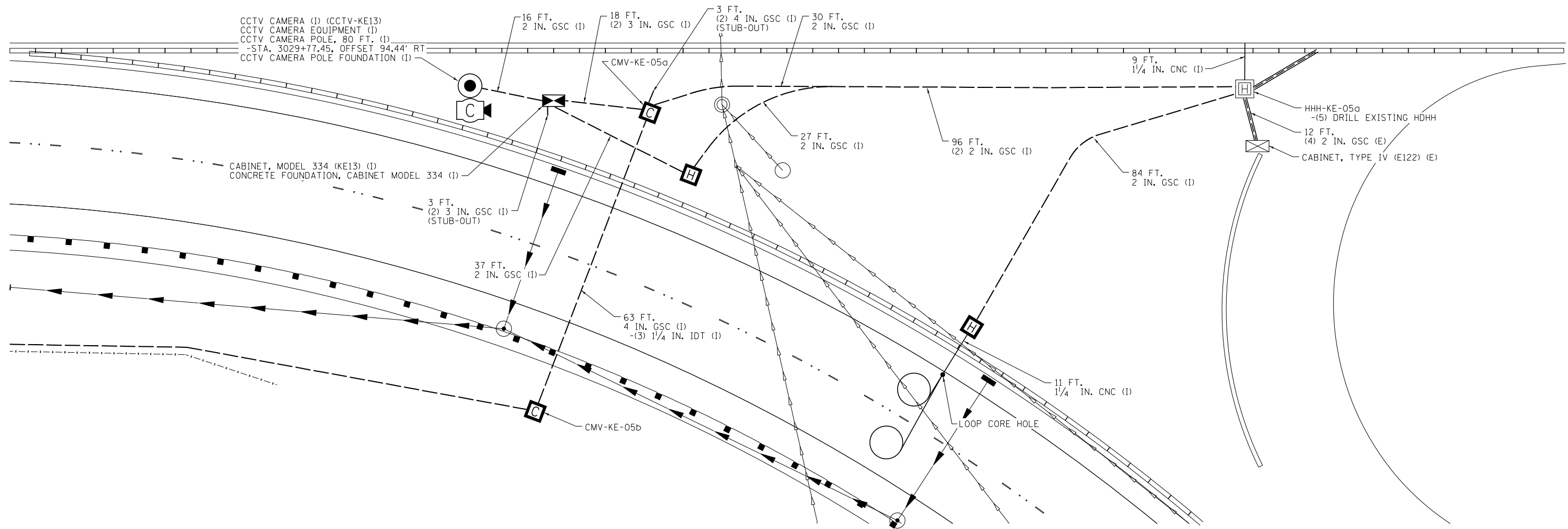
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS SITE INSTALLATION PLANS
CUMBERLAND FLYOVER PROJECT

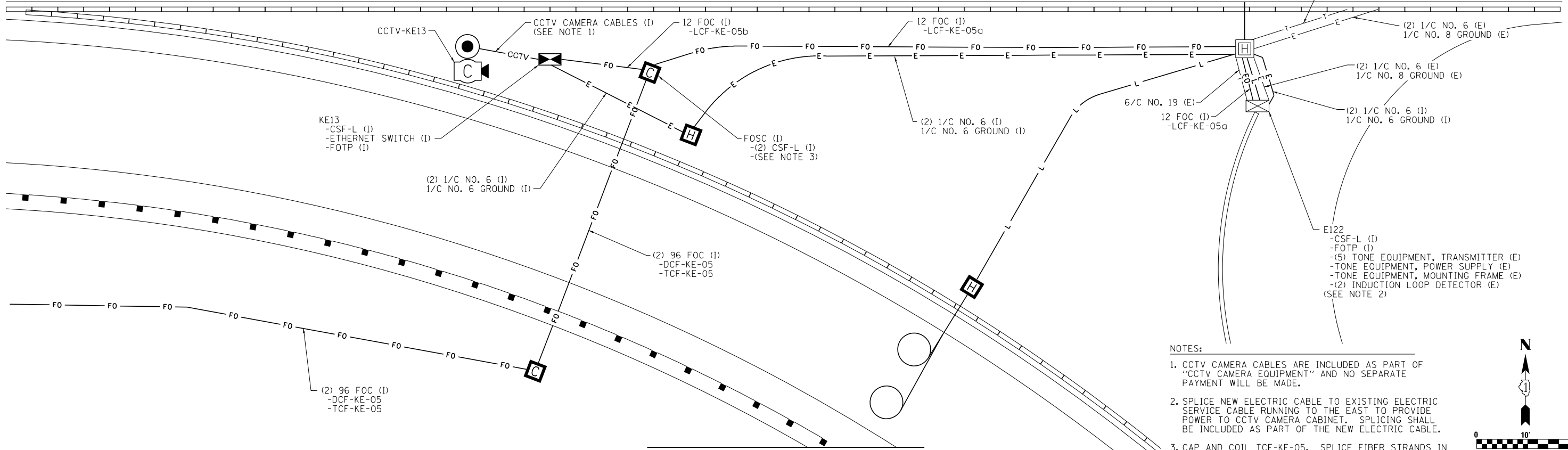
SCALE: 1" = 10' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	259
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-12

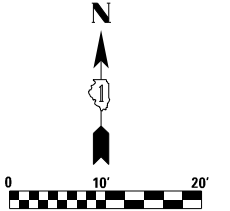


DETAIL E - CONDUIT INSTALLATION



DETAIL F - CABLE INSTALLATION

- NOTES:
1. CCTV CAMERA CABLES ARE INCLUDED AS PART OF "CCTV CAMERA EQUIPMENT" AND NO SEPARATE PAYMENT WILL BE MADE.
 2. SPLICE NEW ELECTRIC CABLE TO EXISTING ELECTRIC SERVICE CABLE RUNNING TO THE EAST TO PROVIDE POWER TO CCTV CAMERA CABINET. SPLICING SHALL BE INCLUDED AS PART OF THE NEW ELECTRIC CABLE.
 3. CAP AND COIL TCF-KE-05. SPLICE FIBER STRANDS IN DCF-KE-05 PER CABLE FIBER ASSIGNMENTS SHEETS.



FILE NAME = ... \D:\2016\2016-06-02\1517R-1(13)-site-det-03.dgn
 6/2/2016
 r.jankowski



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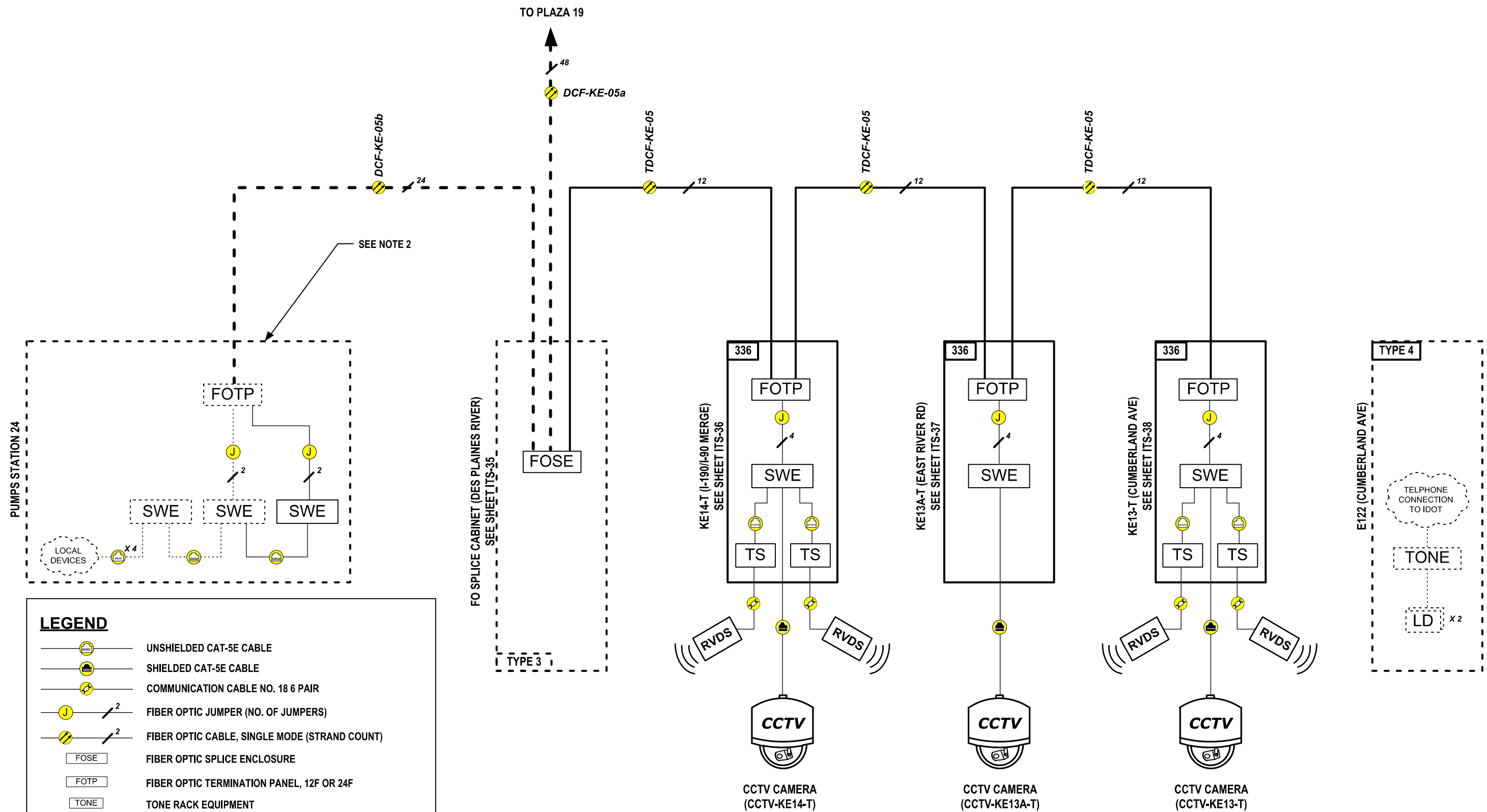
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS SITE INSTALLATION PLANS
CUMBERLAND FLYOVER PROJECT

SCALE: 1" = 10' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	260
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-13



LEGEND

	UNSHIELDED CAT-5E CABLE
	SHIELDED CAT-5E CABLE
	COMMUNICATION CABLE NO. 18 6 PAIR
	FIBER OPTIC JUMPER (NO. OF JUMPERS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)
	FIBER OPTIC SPLICE ENCLOSURE
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F
	tone RACK EQUIPMENT
	TERMINAL SERVER
	REMOTE VEHICLE DETECTION SYSTEM
	CCTV CAMERA
	ETHERNET SWITCH

- NOTES:
1. DASHED LINES INDICATED EXISTING EQUIPMENT, CABLES, AND ENCLOSURES
 2. CONTRACTOR SHALL INSTALL A NEW ETHERNET SWITCH AT PUMP STATION 24 AND CONNECT THE NEW SWITCH TO THE EXISTING MANAGED ETHERNET SWITCH. CONTRACTOR SHALL VERIFY AVAILABLE FIBERS TO MAKE CONNECTION BETWEEN NEW FIELD ETHERNET SWITCHES AND THE EXISTING SWITCH.
 3. NEW ETHERNET SWITCHES HAVE GIGABIT FIBER OPTIC PORTS.
 4. NOT ALL COMMUNICATIONS VAULTS ARE SHOWN FOR CLARITY.



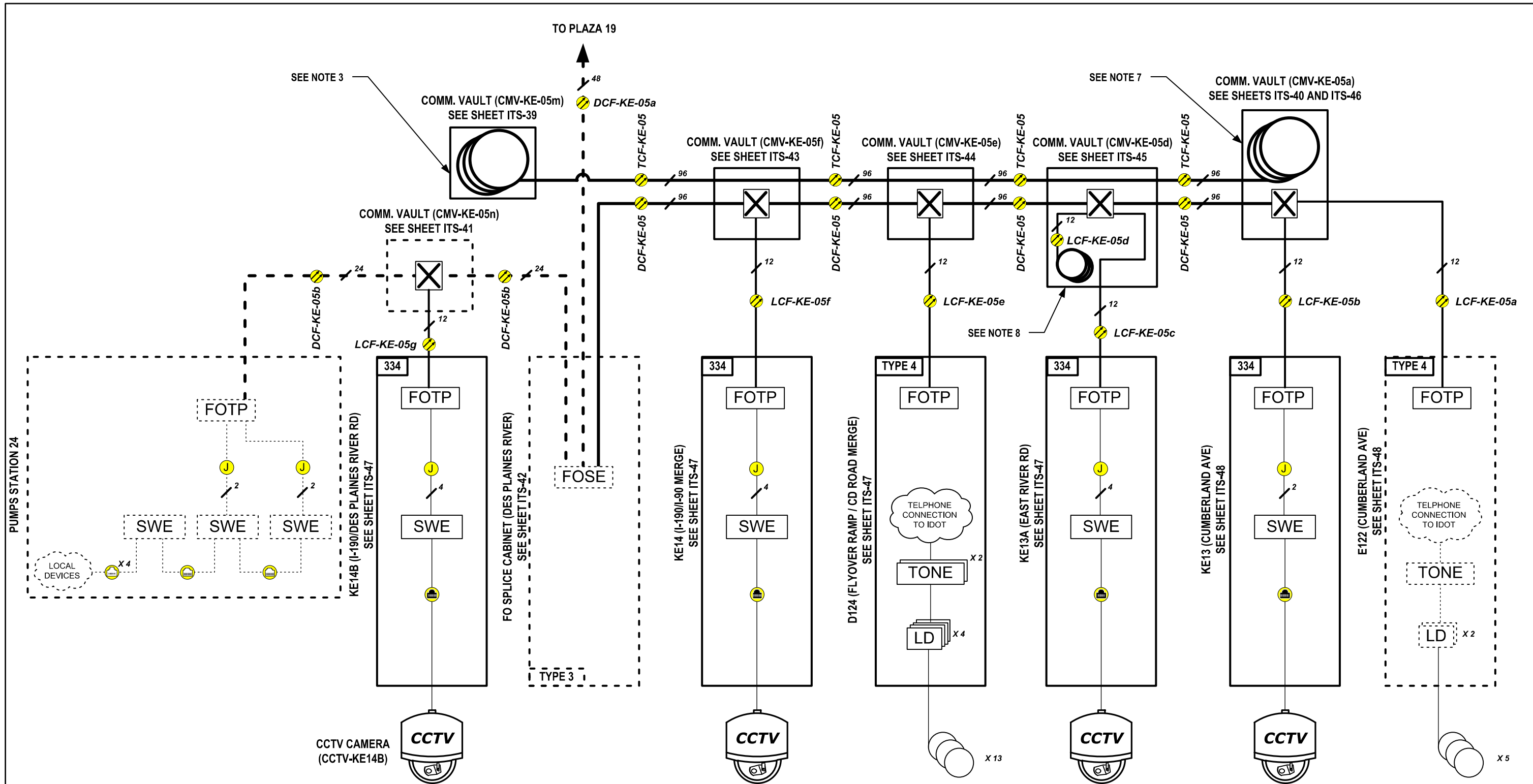
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ADVANCE COMMUNICATIONS OVERVIEW PLAN

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

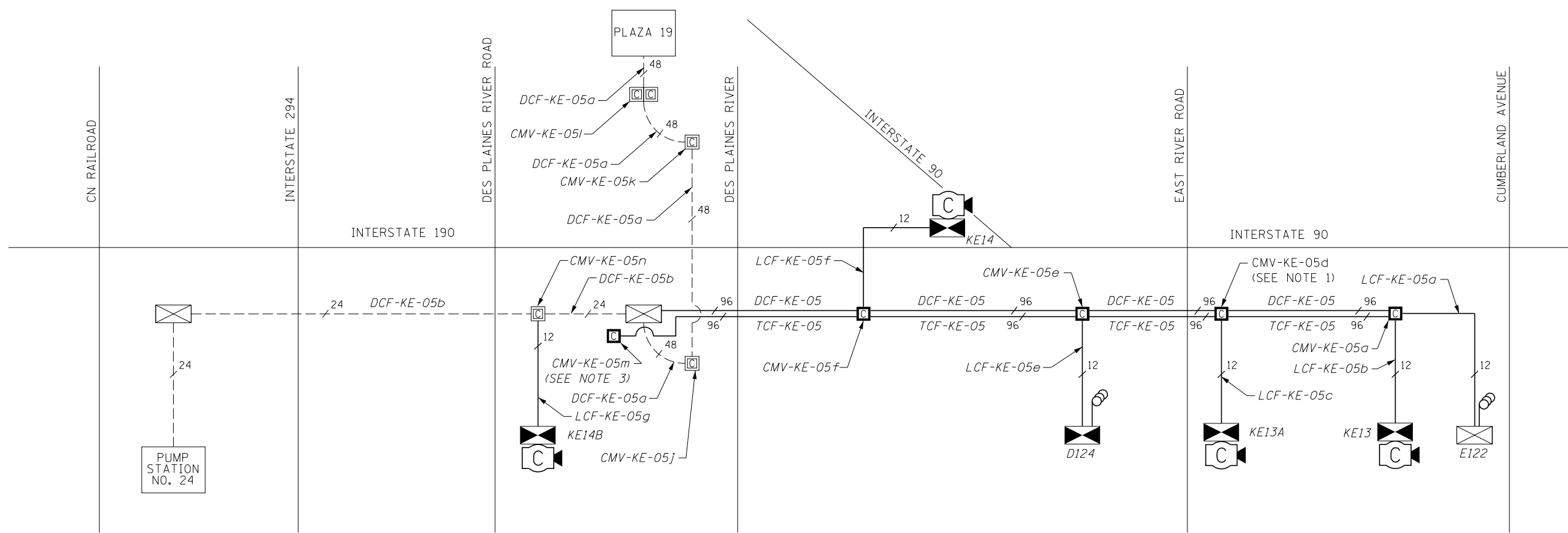
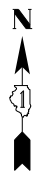
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1517R-1&1617B)13	COOK	580	261
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				



LEGEND	
	UNSHIELDED CAT-5E CABLE
	SHIELDED CAT-5E CABLE
	FIBER OPTIC JUMPER (NO. OF JUMPERS)
	FIBER OPTIC CABLE, SINGLE MODE (STRAND COUNT)
	FIBER OPTIC SPLICING ENCLOSURE
	FIBER OPTIC TERMINATION PANEL, 12F OR 24F
	TONE RACK EQUIPMENT
	INDUCTIVE LOOP DETECTOR (NO. OF LOOP DETECTOR UNITS)
	INDUCTION LOOP (NO. OF LOOPS)
	CCTV CAMERA
	ETHERNET SWITCH

NOTES:

- DASHED LINES INDICATED EXISTING EQUIPMENT, CABLES, AND ENCLOSURES
- TCF-KE-05 SHALL RUN UNCLUT BETWEEN COMM. VAULT (CMV-KE-05a) AND COMM. VAULT (CMV-KE-05n).
- STORE 700 FEET OF FOC SLACK IN NEW COMMUNICATIONS VAULT FOR FUTURE CONNECTION WITH A COMMUNICATIONS SHELTER TO THE WEST.
- NEW ETHERNET SWITCHES HAVE GIGABIT FIBER OPTIC PORTS.
- NOT ALL COMMUNICATIONS VAULTS ARE SHOWN FOR CLARITY.
- JUMPER CABLES USED FOR PATCHING THROUGH FIBER CONNECTIONS NOW SHOWN. SEE SPLICING TABLES FOR MORE DETAIL.
- STORE 100 FEET OF FOC SLACK IN NEW COMMUNICATIONS VAULT FOR FUTURE CONNECTION TO HARLEM AVENUE.
- STORE 100 FEET OF FOC SLACK IN NEW COMMUNICATIONS VAULT FOR FUTURE CONNECTION TO EAST RIVER ROAD LIGHTING CONTROLLER.



LEGEND

EXISTING	PROPOSED	
---	---	FIBER OPTIC CABLE
XX	XX	FIBER STRANDS PER CABLE
		CCTV CAMERA
		DYNAMIC MESSAG SIGN
		SURVEILLANCE LOOPS
		ITS CABINET, GROUND MOUNTED
		ITS CABINET, POLE-MOUNTED
		COMMUNICATION VAULT

- NOTES:**
1. FIBER OPTIC CABLE "LCF-KE-05d" SLACK COILED IN COMMUNICATIONS VAULT FOR FUTURE CONNECTION TO EAST RIVER ROAD LIGHTING CONTROLLER.
 2. SCHEMATIC DIAGRAM ONLY SHOWS PROPOSED COMMUNICATIONS VAULTS WHERE SPLICING OCCURS. EXISTING COMMUNICATIONS VAULTS OUTSIDE PROJECT LIMITS ARE SHOWN FOR REFERENCE ONLY AND MAY NOT CONTAIN SPLICE CLOSURES. NOT ALL EXISTING COMM VAULTS ARE SHOWN.
 3. FIBER OPTIC CABLE "TCF-KE-05" SLACK COILED IN COMMUNICATIONS VAULT FOR FUTURE CONNECTION TO NEW COMMUNICATIONS SHELTER.

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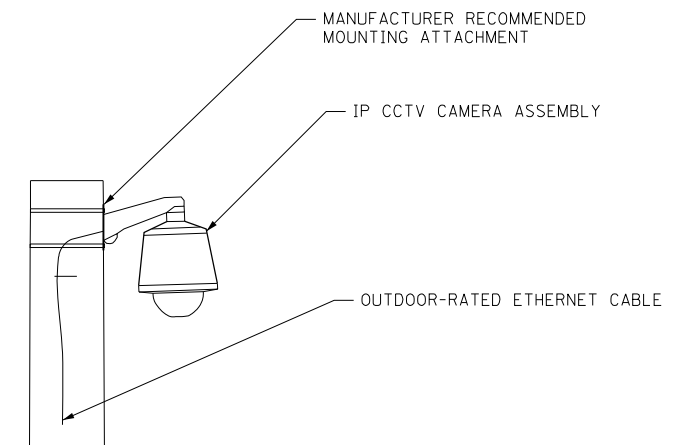
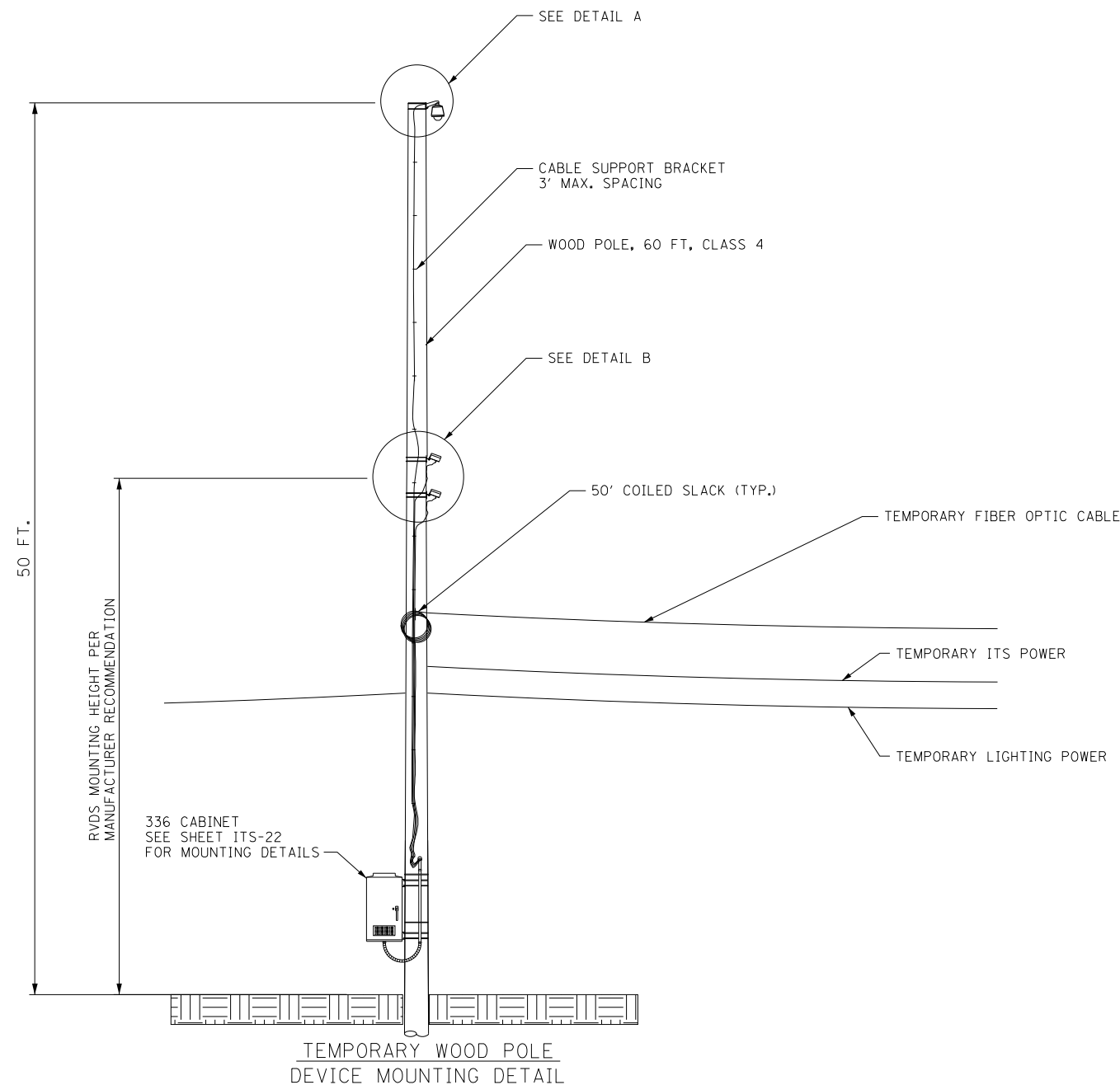
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SINGLE LINE FIBER DIAGRAM
CUMBERLAND FLYOVER PROJECT**

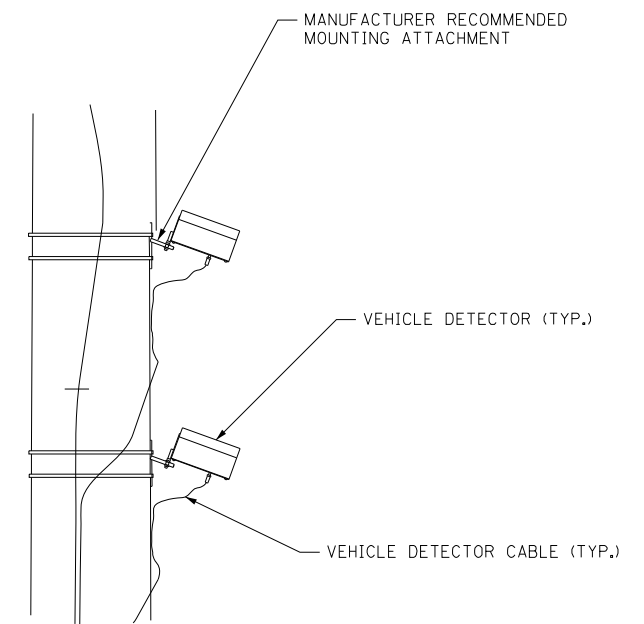
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	263
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-16



DETAIL A - CCTV CAMERA MOUNTING



DETAIL B - VEHICLE DETECTOR MOUNTING

FILE NAME = ...01020205-ant-its-ds-17.dgn



USER NAME = mkosir	DESIGNED - JZ	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

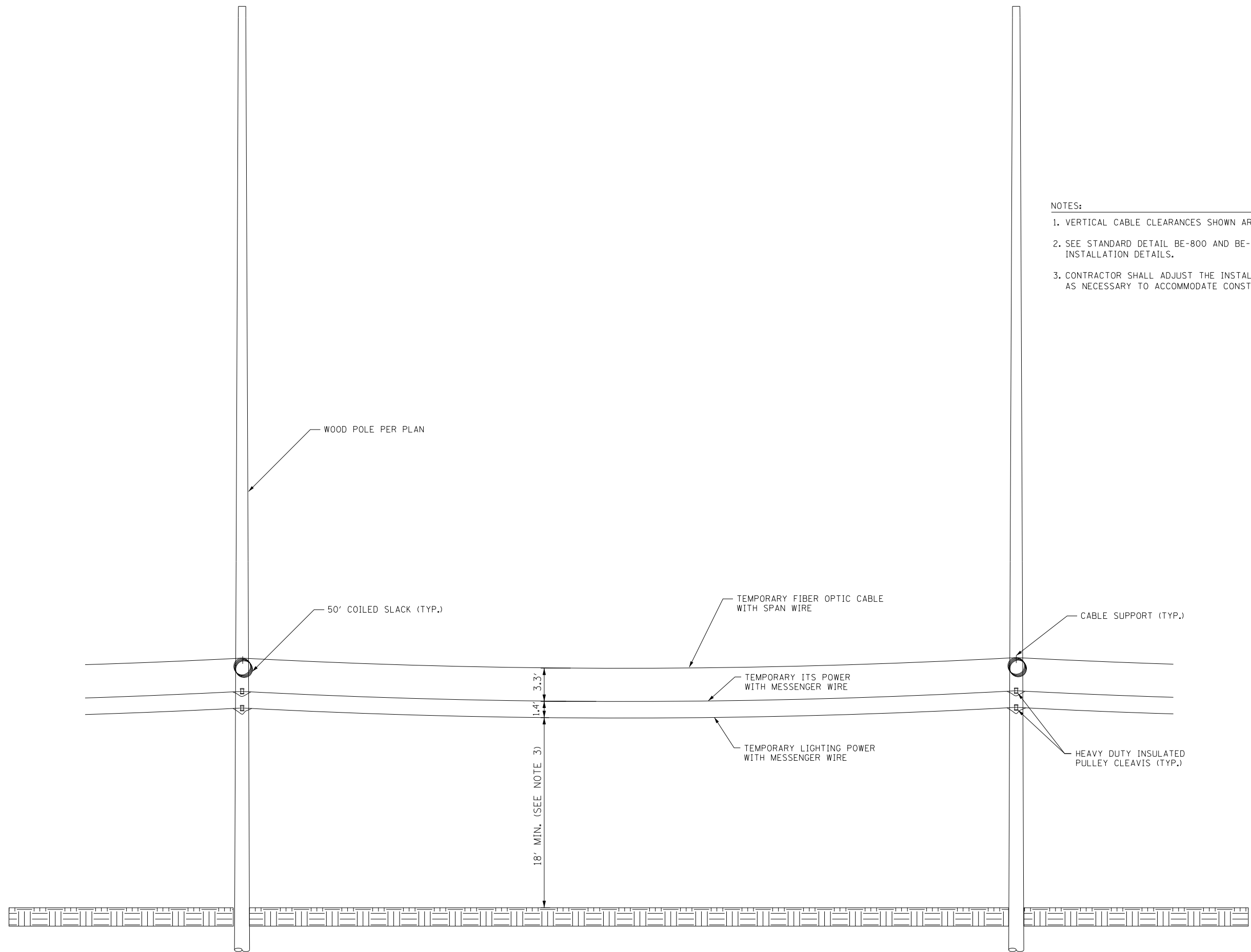
TEMPORARY RADAR VEHICLE DETECTION SYSTEM AND CCTV CAMERA
INSTALLATION DETAIL

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	264
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-17

- NOTES:
1. VERTICAL CABLE CLEARANCES SHOWN ARE MINIMUMS PER NESC.
 2. SEE STANDARD DETAIL BE-800 AND BE-801 FOR MESSENGER WIRE INSTALLATION DETAILS.
 3. CONTRACTOR SHALL ADJUST THE INSTALLATION HEIGHT AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES.



FILE NAME = ...D:\2016\2016-SP-INT-ITS-DA-18.dgn



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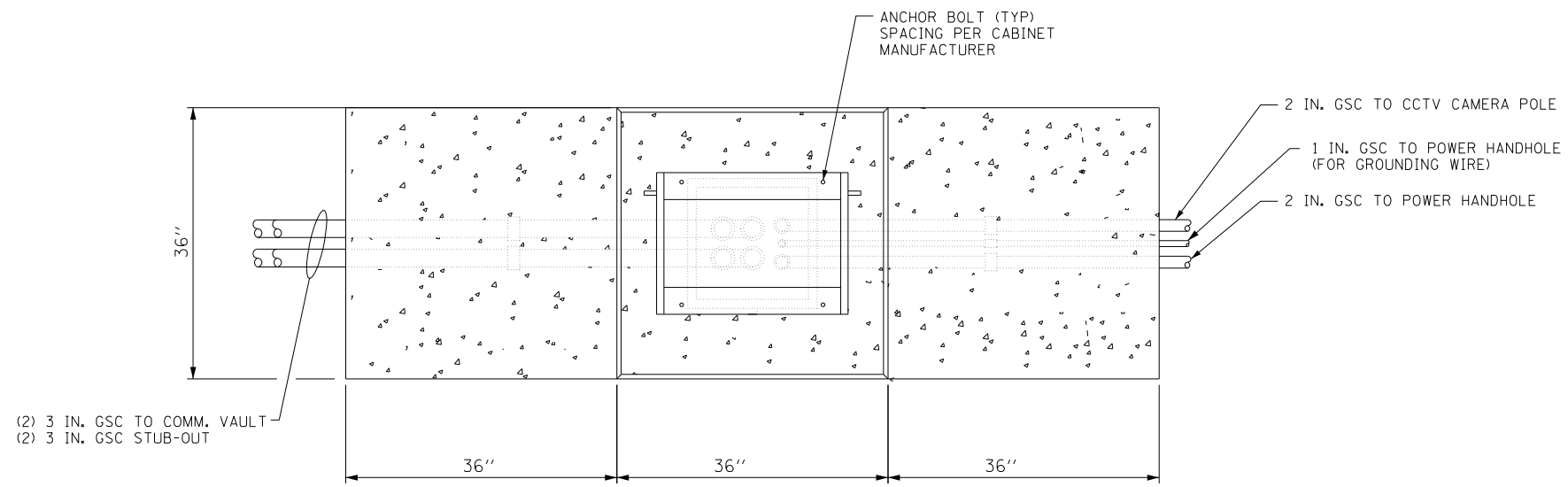
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY ITS AERIAL CABLE
INSTALLATION DETAIL**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	265
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

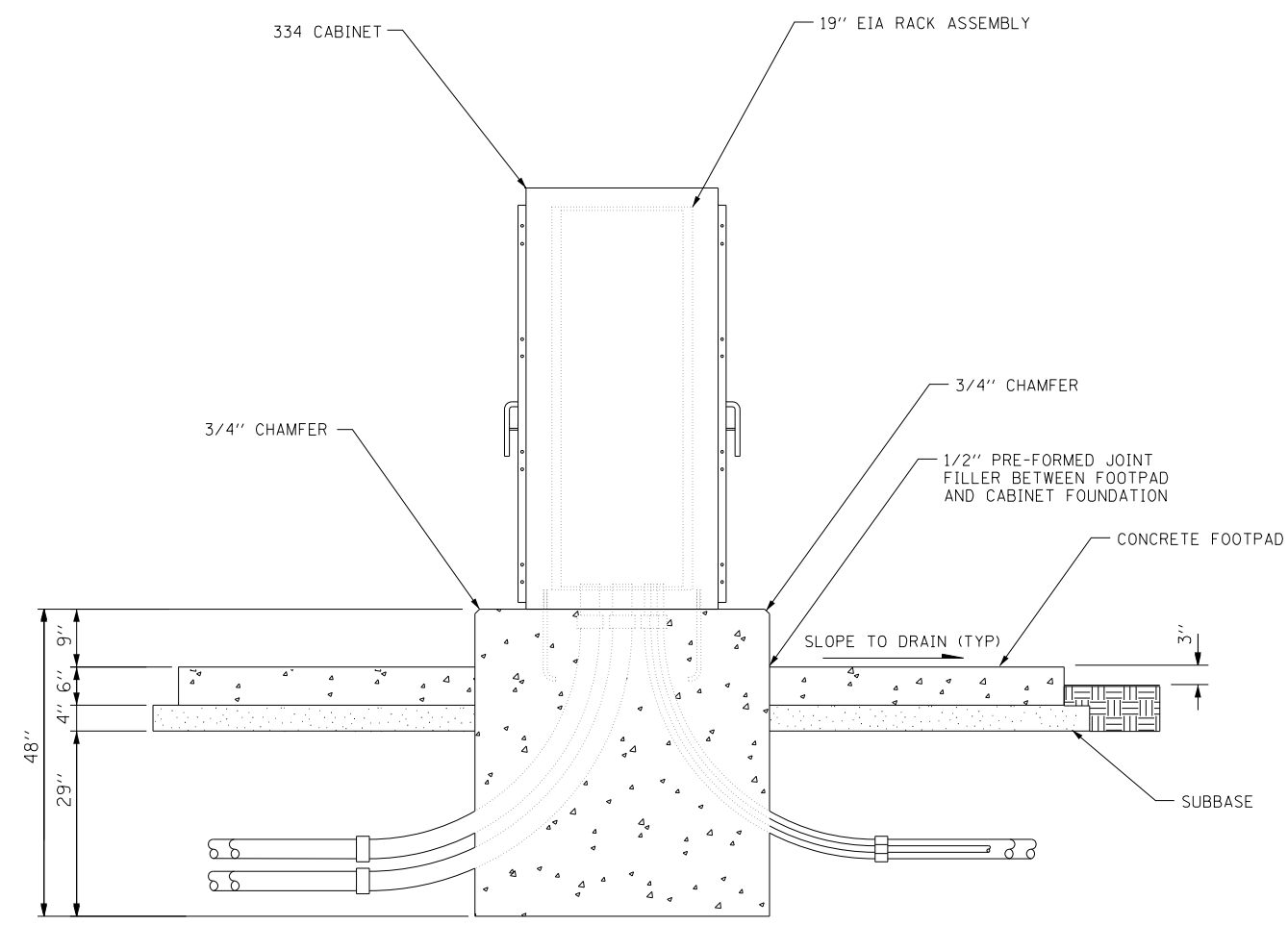
ITS-18



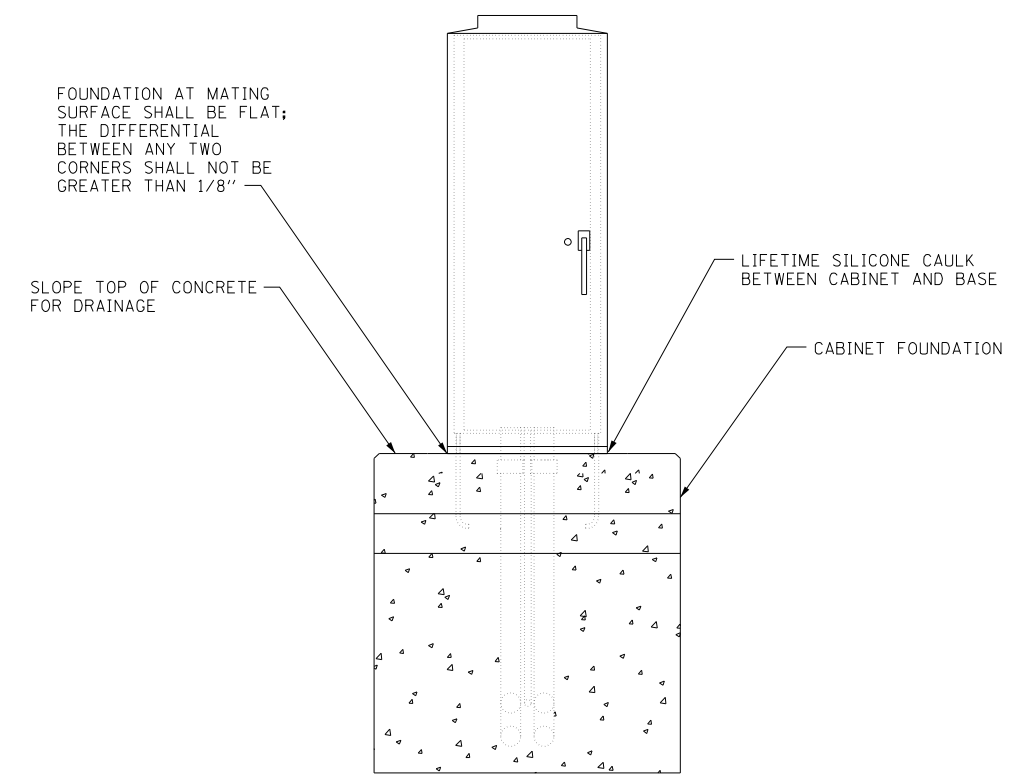
PLAN VIEW

NOTES:

1. ADJUST THE ELEVATIONS OF CONCRETE FOOTPADS TO MEET THE SITE CONDITIONS.
2. COMPACT THE SOIL BENEATH THE CONCRETE FOOTPAD AND AGGREGATE IN PLACE WITH A PLATE COMPACTOR OR OTHER COMPACTION METHOD APPROVED BY THE ENGINEER, PRIOR TO PLACING THE AGGREGATE.
3. INSTALL THE NUMBER, SIZE, AND TYPE OF CONDUIT(S) FOR COMMUNICATIONS AND POWER AS SHOWN IN THE PLANS. DETERMINE THE APPROACH/ENTRY ANGLE TO FOUNDATION BASED ON SITE CONDITIONS. THE NUMBER AND LOCATION OF CONDUIT SWEEPS SHOWN IN THIS DRAWING ARE DIAGRAMMATIC.
4. INSTALL A 3/4" X 10 FT. GROUNDING ROD IN POWER HANDHOLE NEAREST TO THE CABINET. INSTALL AN INSULATED #2 GROUND WIRE FROM THE CABINET TO THE GROUNDING ROD AND EXOTHERMICALLY BOND TO THE GROUND ROD.



ELEVATION (FRONT)



ELEVATION (SIDE)

FILE NAME = ...01020205-ant-t-t-11s-ds-19.dgn



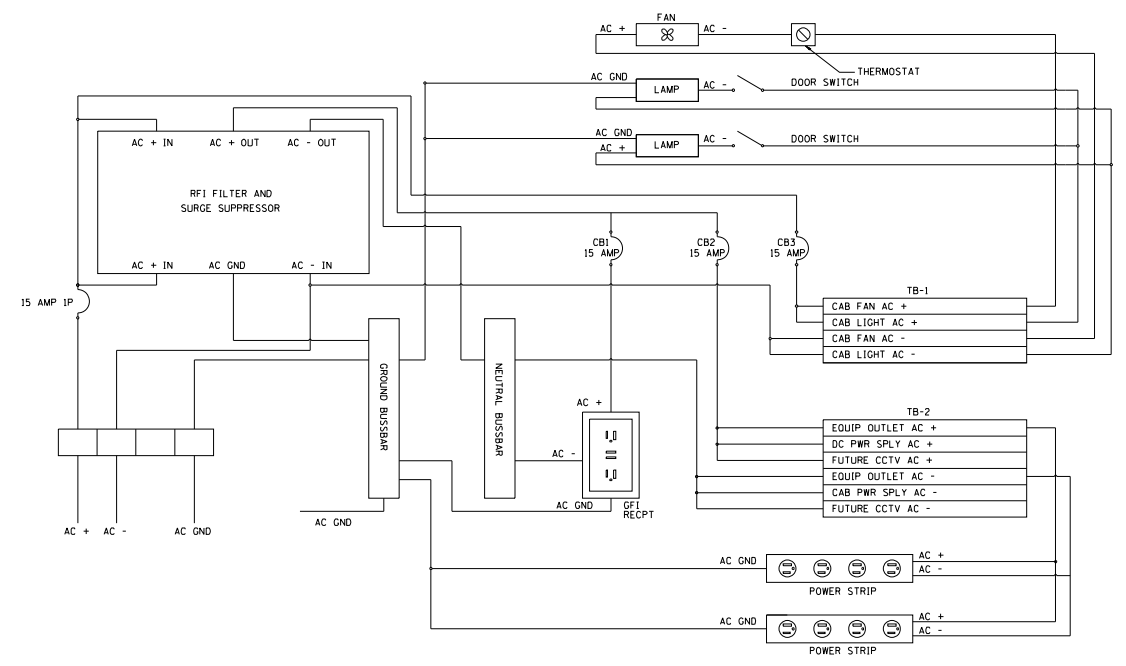
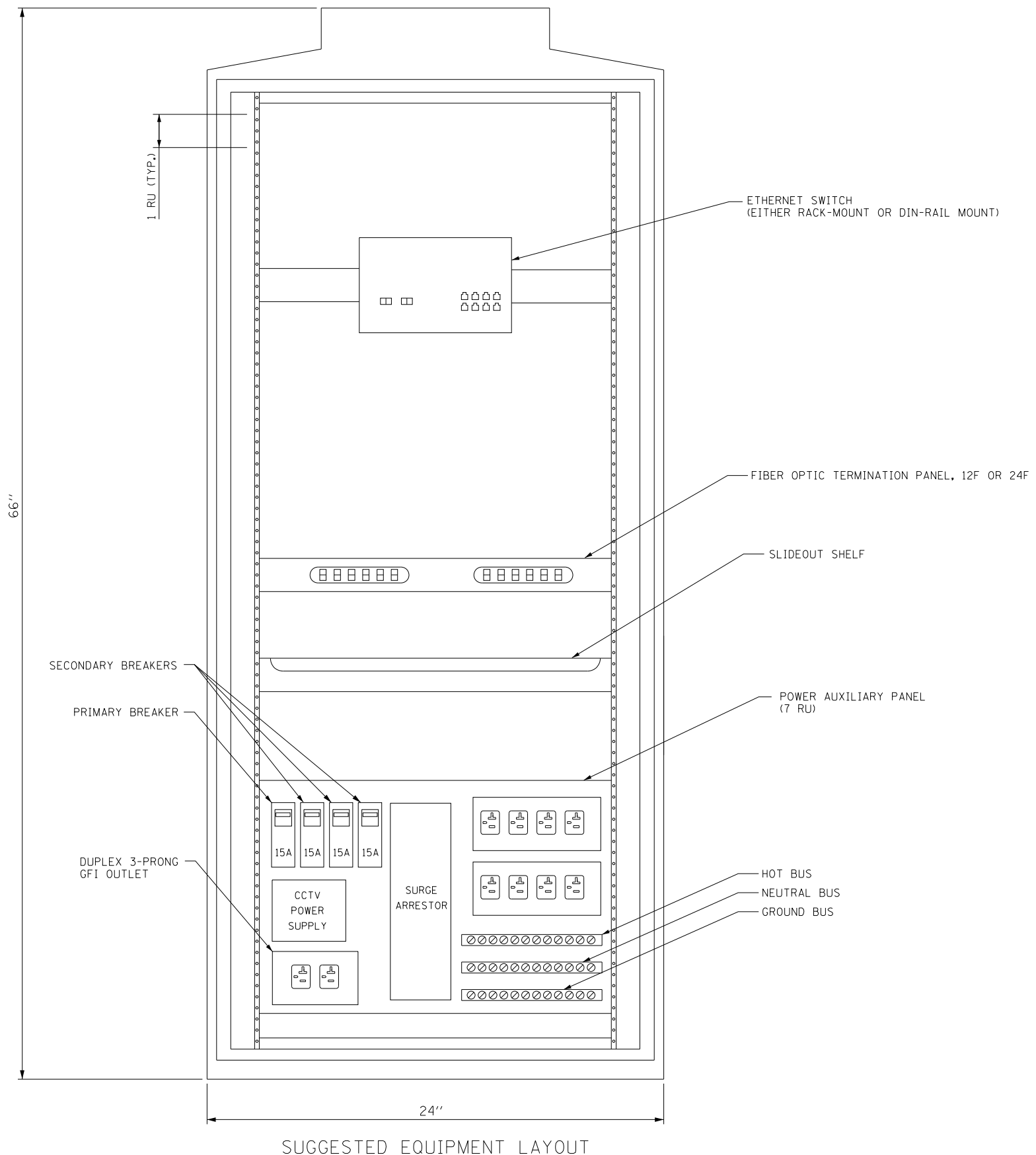
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	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET, MODEL 334
INSTALLATION DETAIL

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

ITS-19	
F.A.I. RTE.	SHEET NO.
190	266
SECTION	TOTAL SHEETS
1517R-1(13)	580
COUNTY	CONTRACT NO.
COOK	60X56
ILLINOIS FED. AID PROJECT	



TERMINAL CABINET POWER DISTRIBUTION ASSEMBLY (PDA)
NOT TO SCALE

- NOTES:
1. CABINET DIMENSIONS ARE ROUNDED TO THE NEAREST INCH.
 2. CABINET LIGHT AND FAN NOT SHOWN.

FILE NAME = ...D:\020556-ant-t-115-ds-28.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
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	DATE -	REVISED -

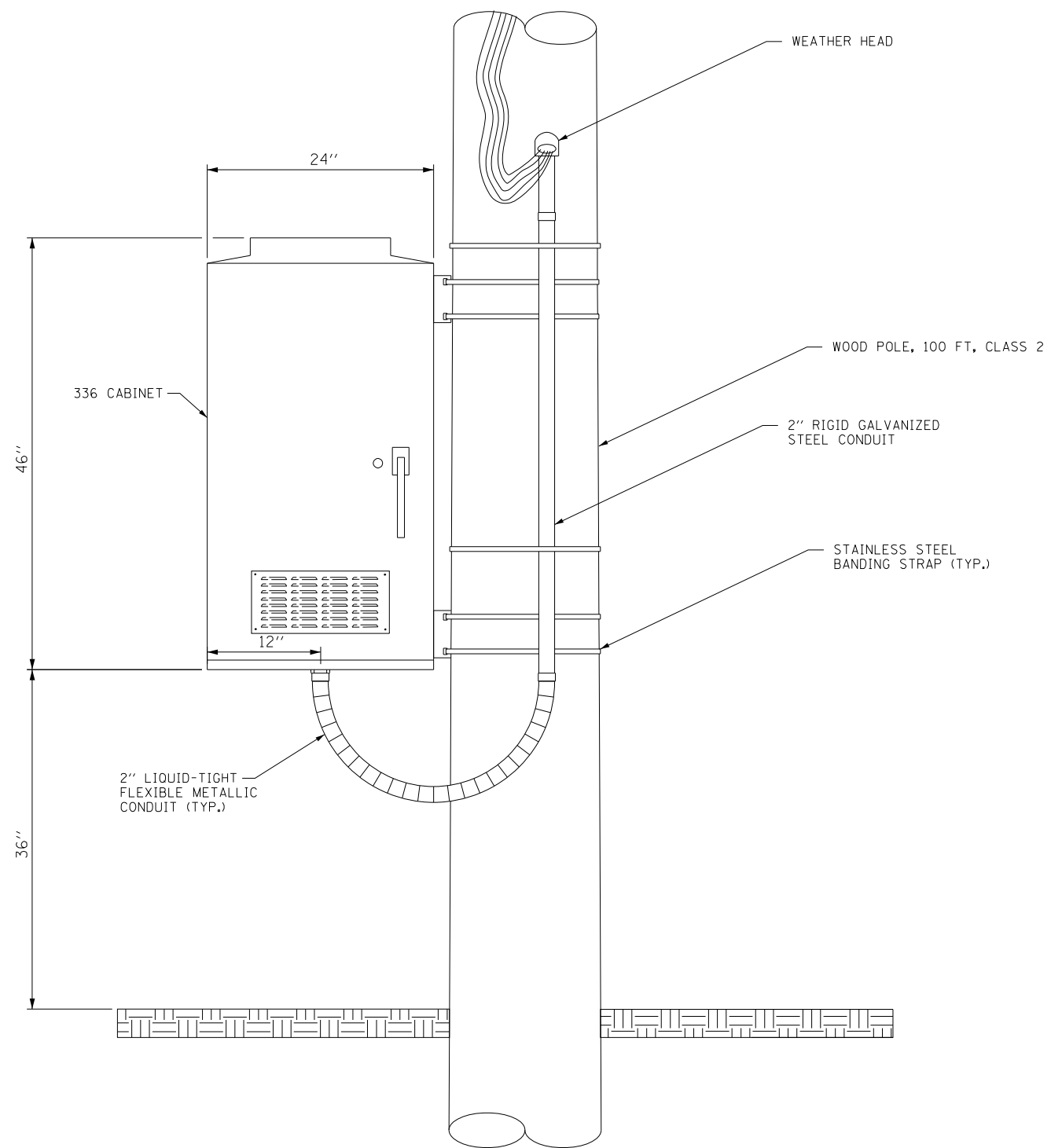
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET, MODEL 334
RACK LAYOUT

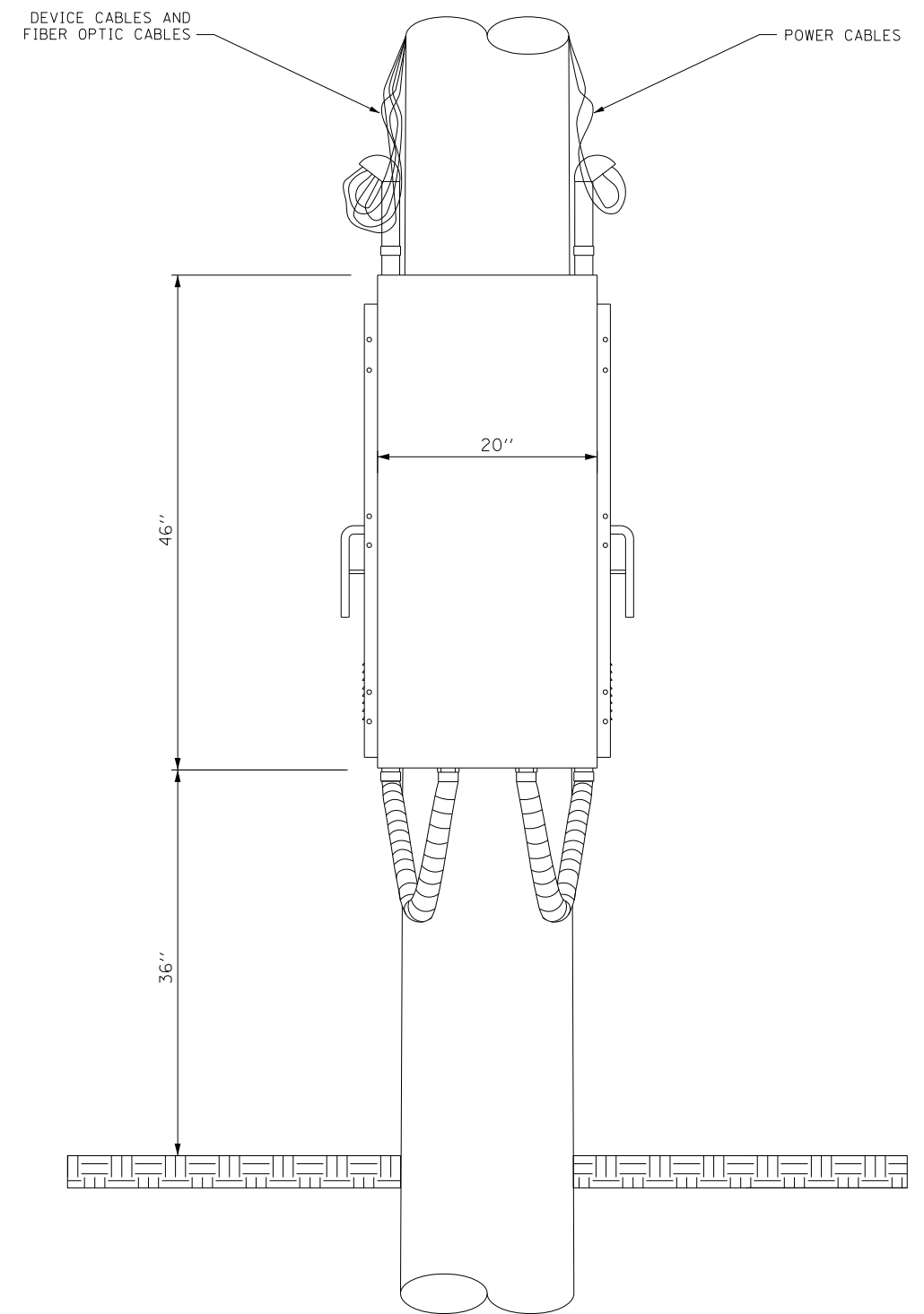
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	267
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-20



POLE-MOUNTED CABINET
CONDUIT INSTALLATION DETAIL
(SIDE VIEW)



POLE-MOUNTED CABINET
CONDUIT INSTALLATION DETAIL
(FRONT VIEW)

FILE NAME = ...D:\020526-art\115-ds-21.dgn



USER NAME = mkosir	DESIGNED -	REVISED -
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PLOT DATE = 4/27/2016	DATE -	REVISED -

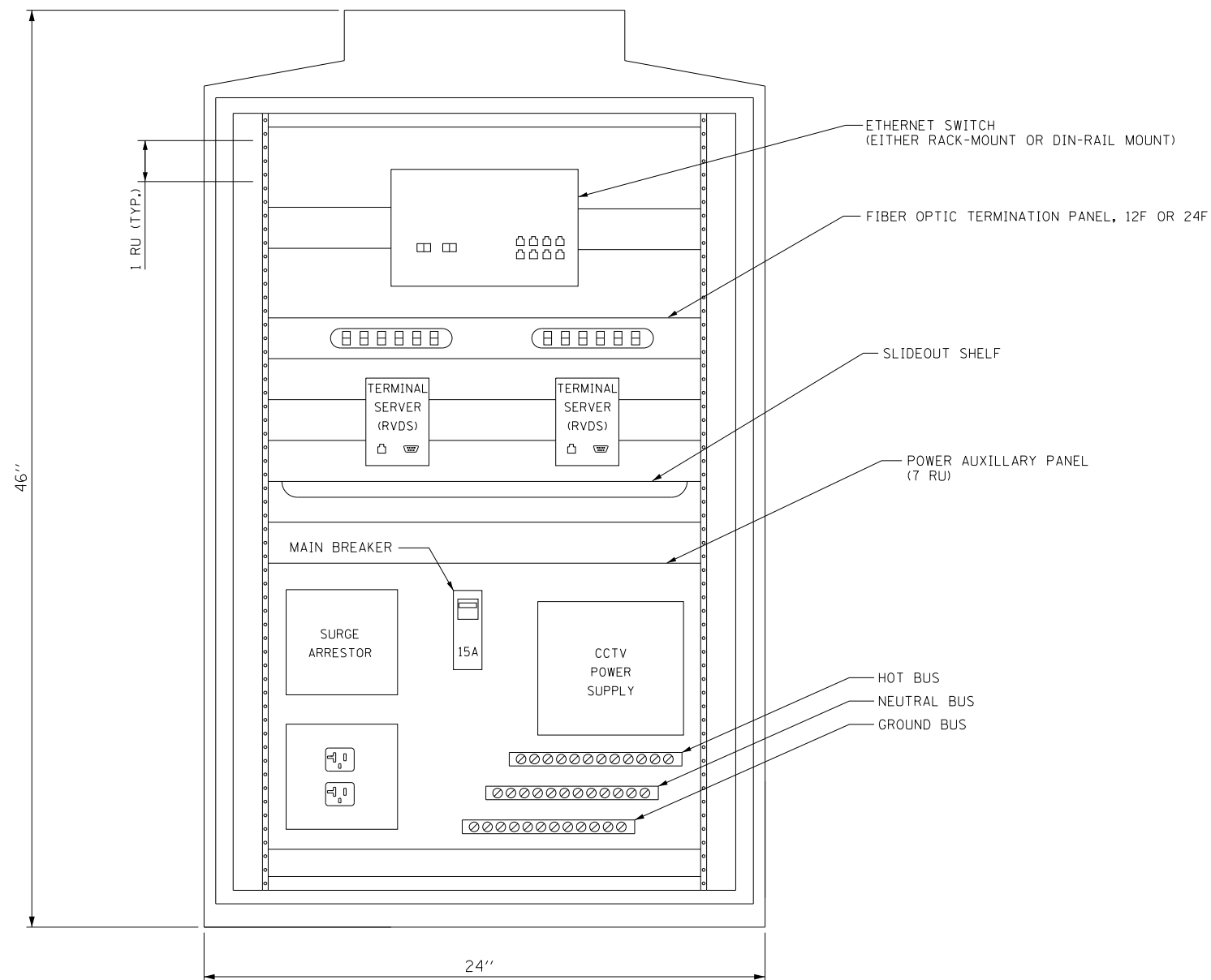
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET, MODEL 336
INSTALLATION DETAIL

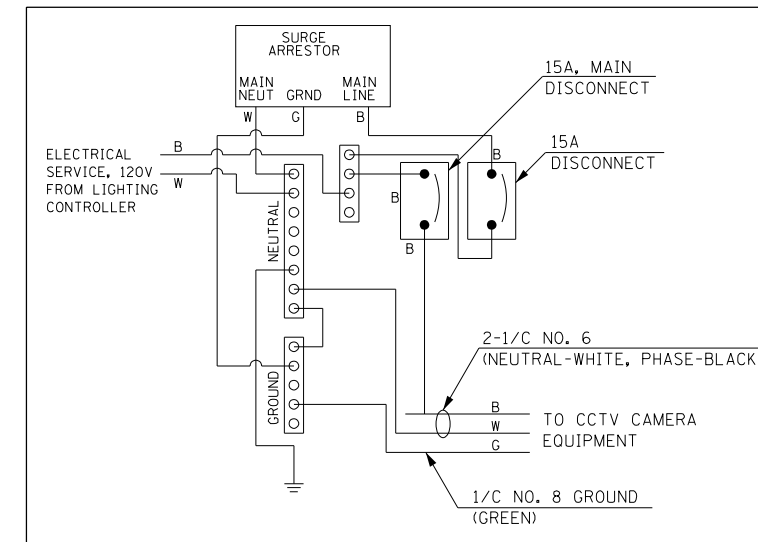
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	268
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-21



SUGGESTED EQUIPMENT LAYOUT



NOTES:

1. CABINET DIMENSIONS ARE ROUNDED TO THE NEAREST INCH.
2. THE CABINET SHALL BE MOUNTED TO THE POLE USING FOUR STAINLESS STEEL STRAPS.
3. CABINET LIGHT AND FAN NOT SHOWN.

FILE NAME = ...D:\020526-art\115-ds-22.dgn



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	DRAWN -	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED -	REVISED -
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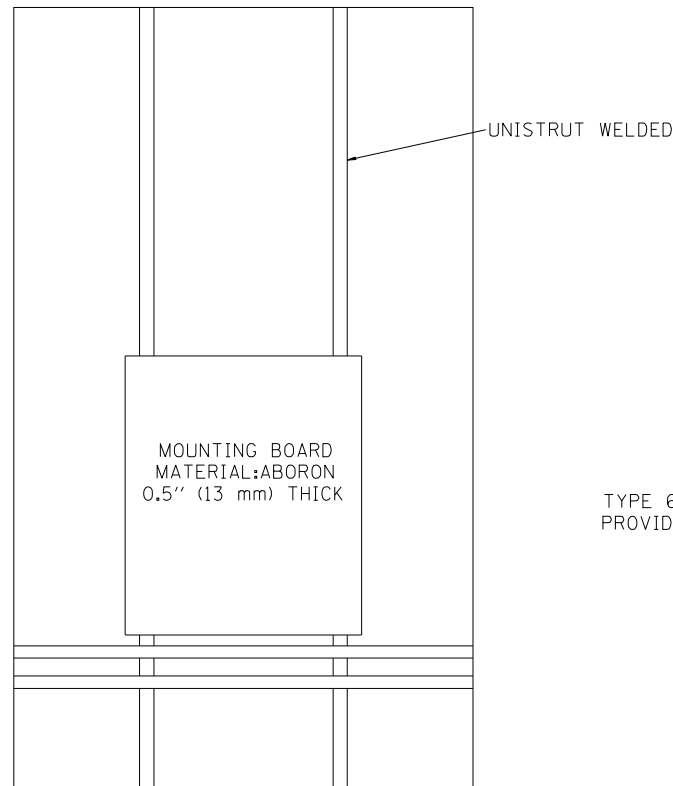
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET, MODEL 336
RACK LAYOUT

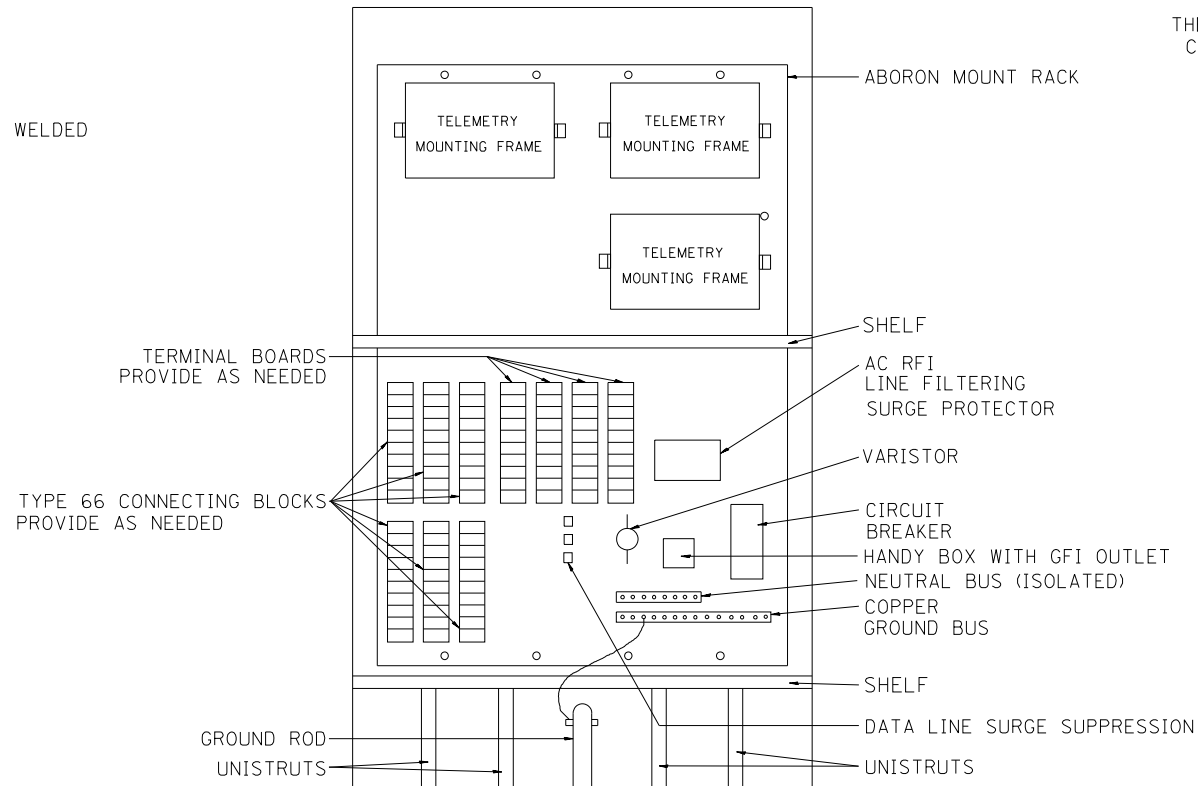
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	269
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

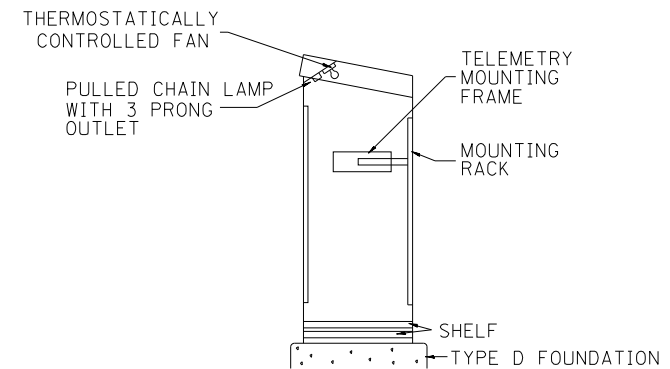
ITS-22



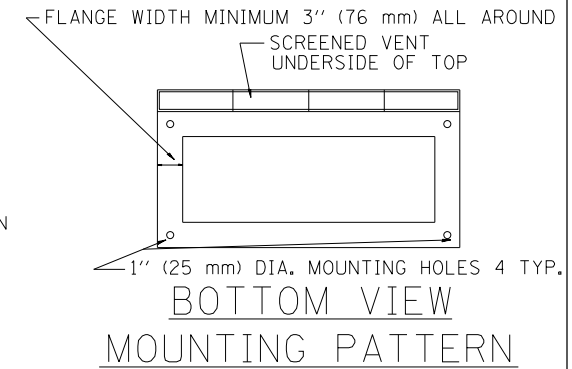
SIDE VIEW ESP 4 CABINET



ESP 4 CABINET



PROFILE VIEW



BOTTOM VIEW MOUNTING PATTERN

TYPICAL CABINET INTERIORS
STANDARD TRAFFIC SYSTEMS CENTER CABINETS

TYPE	MINIMUM DIMENSIONS			INSIDE THICKNESS (IN-mm)	MATERIAL
	HEIGHT (IN-m)	WIDTH (IN-m)	DEPTH (IN-mm)		
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.
- 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.
- 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' OF STATIC WATER PRESSURE. A PORCELAIN BASED PULL CHAIN FIXTURE WITH 3 PRONG OUTLET SHALL ALSO BE PROVIDED.
- INCIDENTAL TO THE COST OF EACH CABINET THE CONTRACTOR SHALL CONSTRUCT A 5 INCH (127 mm) PCC SIDEWALK OF A RECTANGULAR AREA 6 FEET (1.83 m) BY 8 FEET (2.44 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 4 ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON THE 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 DOORS OR LOUVERS.
- ALL FIELD CABINETS SHALL BE FITTED WITH BRASS LOCKS.
- ESP TYPE 4 CABINET FITTED WITH TWO SHELVES AS SHOWN.
- 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.

- | | |
|------------------|--------------------|
| EDENS | WALNUT * |
| KENNEDY | BLUE STREAK ** |
| EISENHOWER | CARIBBEAN BLUE * |
| I-290/IL53/I-355 | EVERGREEN ** |
| 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 = ...01020205-ant-11s-dm-23.dgn



USER NAME = mikosir	DESIGNED - R.L.	REVISED - 02/98
	DRAWN - G.M.	REVISED - 03/99
PLOT SCALE = 1.00' / 1in.	CHECKED - R.L.	REVISED -
PLOT DATE = 4/27/2016	DATE - 04/26/97	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

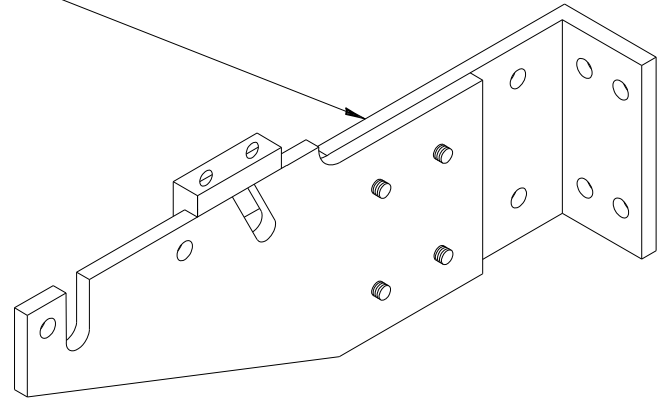
TYPE 4 CABINET
DETAIL SHEET

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

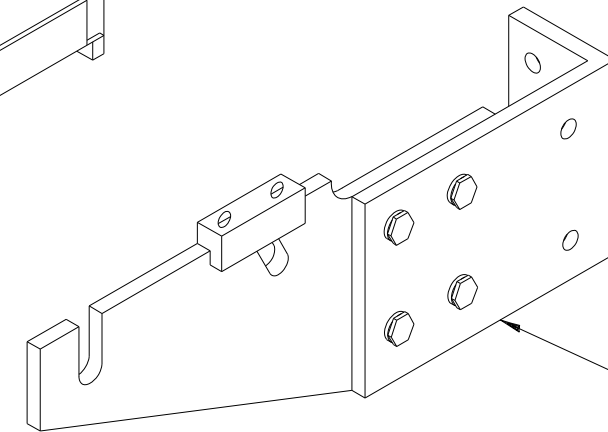
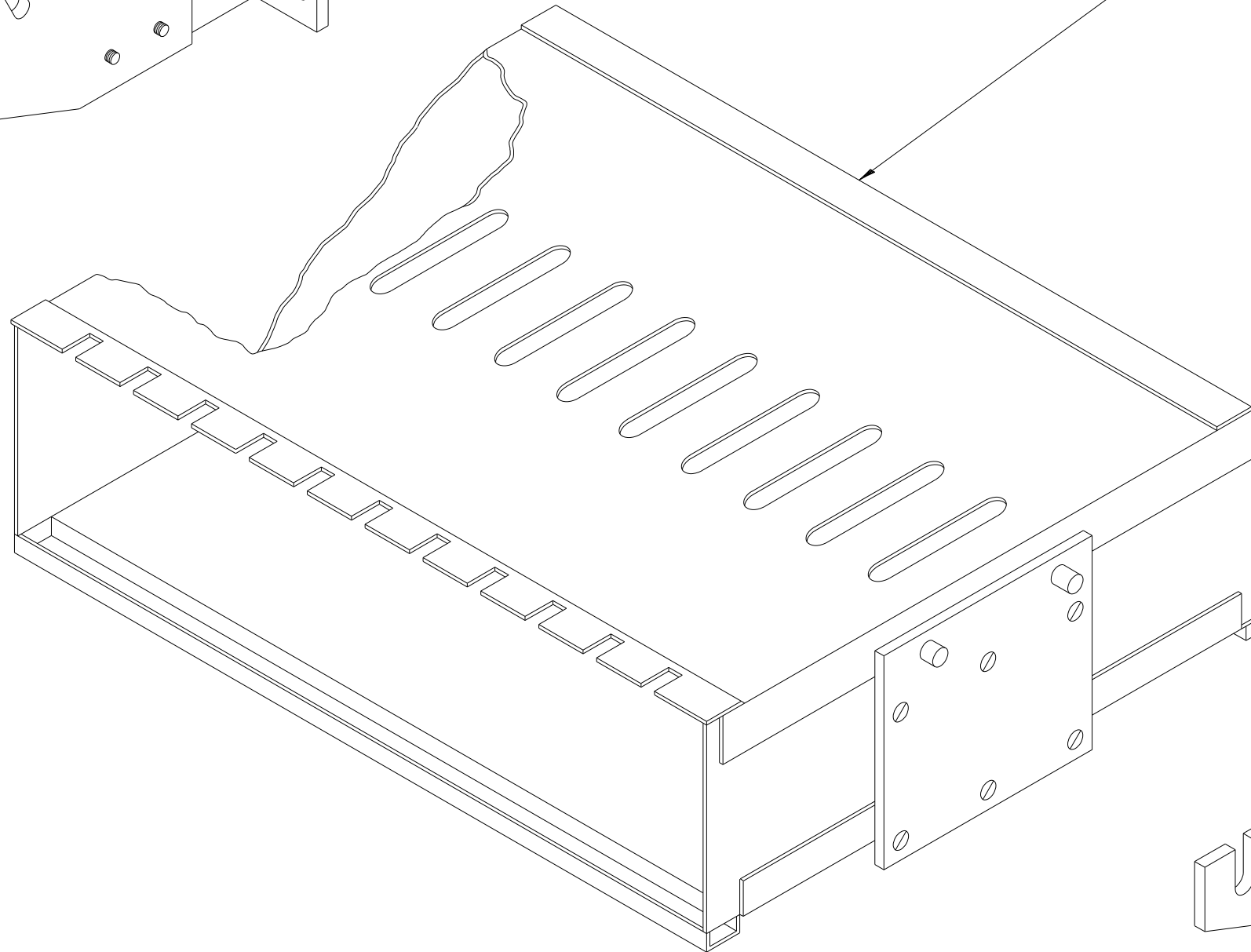
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	270
CONTRACT NO. 60X56			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

ITS-23

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 = ...D:\020505-ant-tts-ds-24.dgn



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	DRAWN - G.M.	REVISED - 03/99
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PLOT DATE = 4/27/2016	DATE - 04/26/97	REVISED -

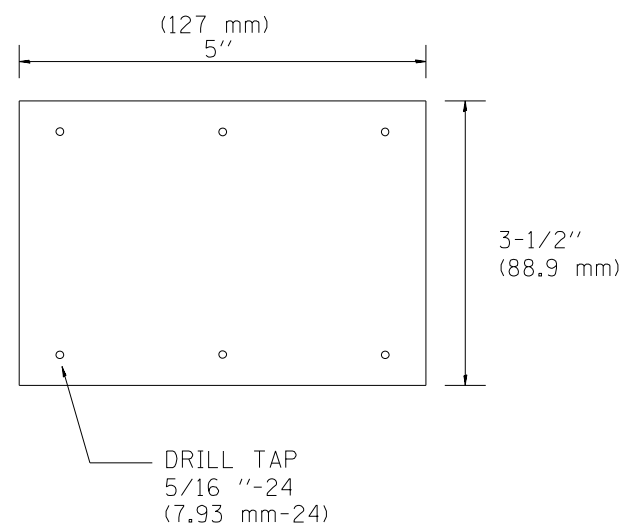
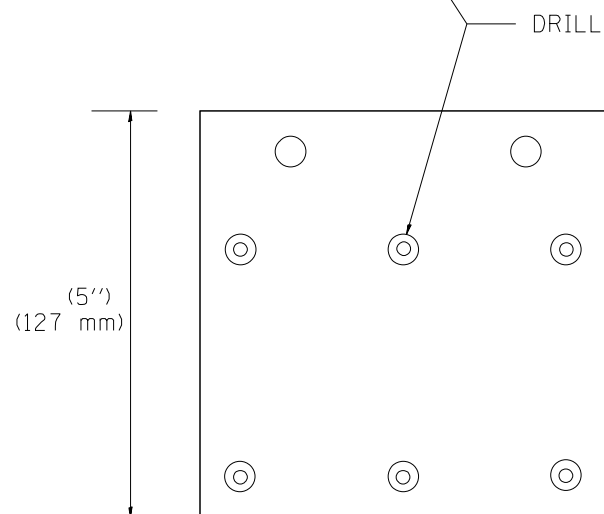
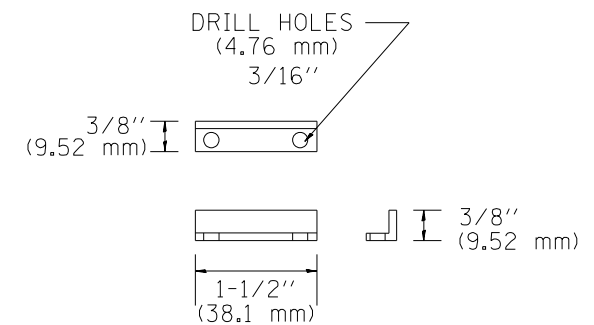
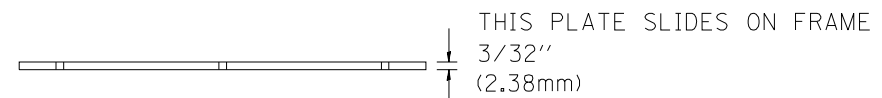
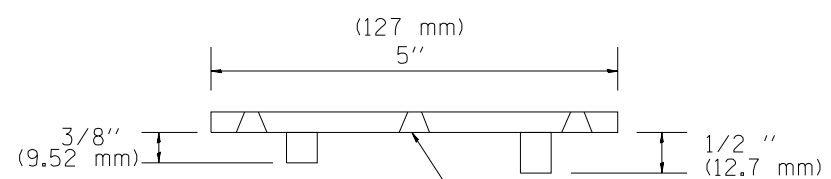
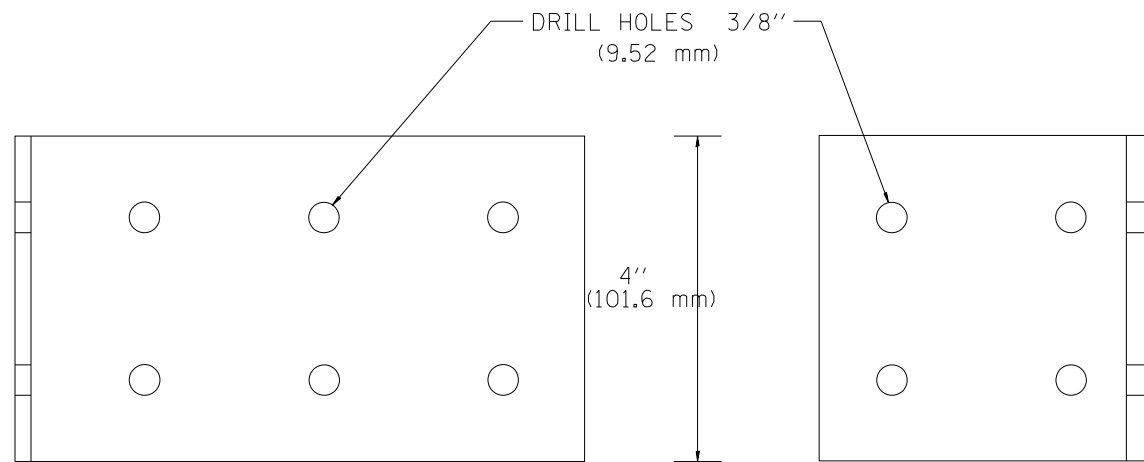
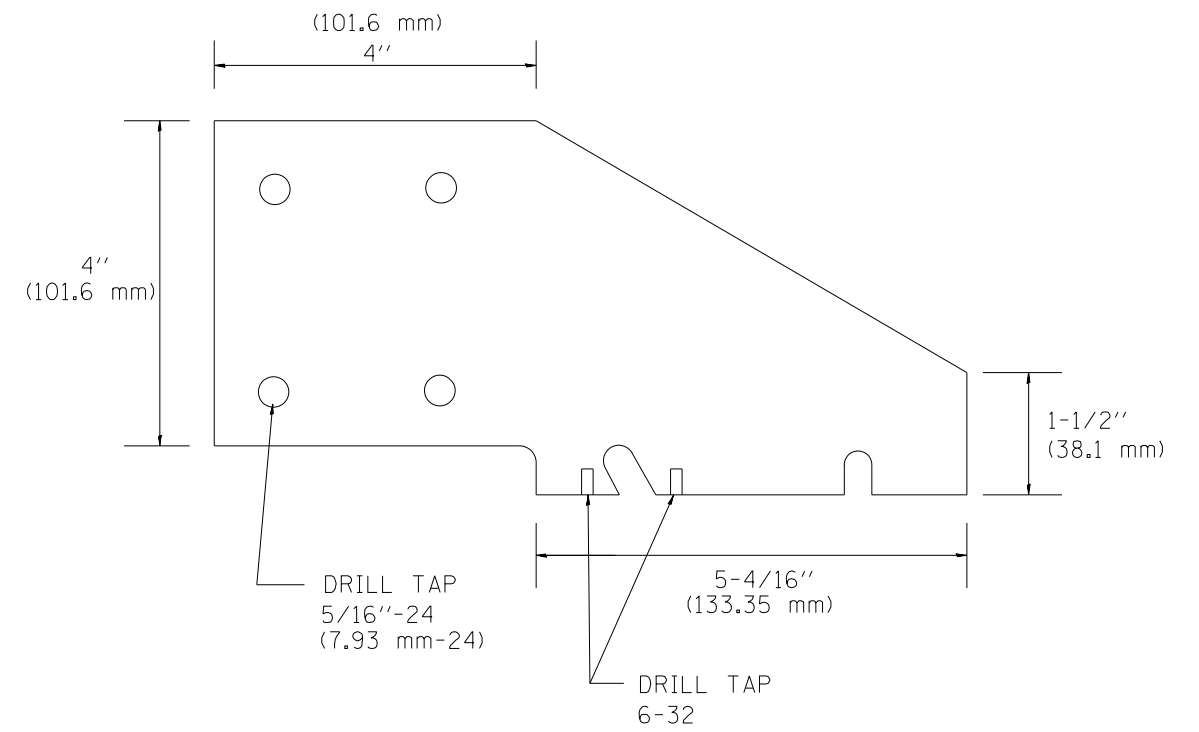
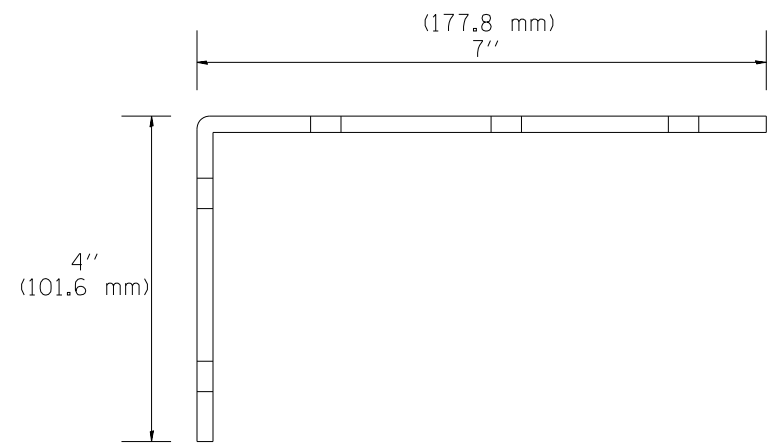
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

FIELD MOUNTING FRAME
WITH CRADLE ASSEMBLY

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	271
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-24



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PLOT DATE = 4/27/2016	DATE - 04/26/97	REVISED -

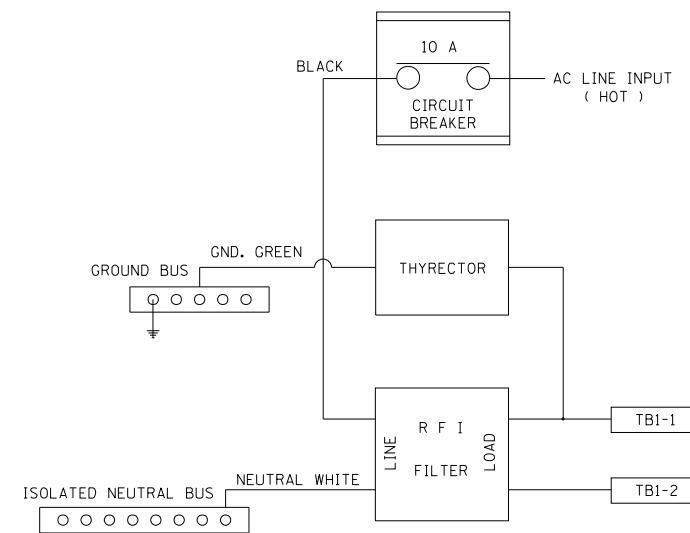
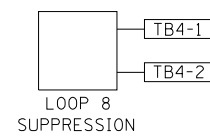
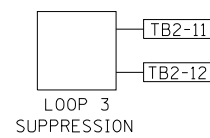
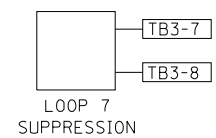
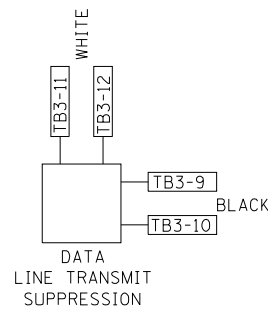
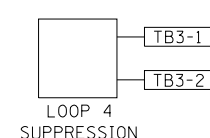
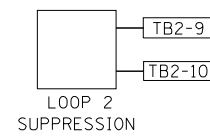
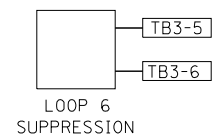
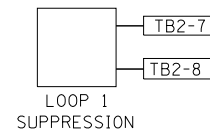
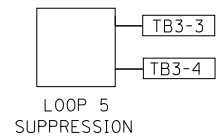
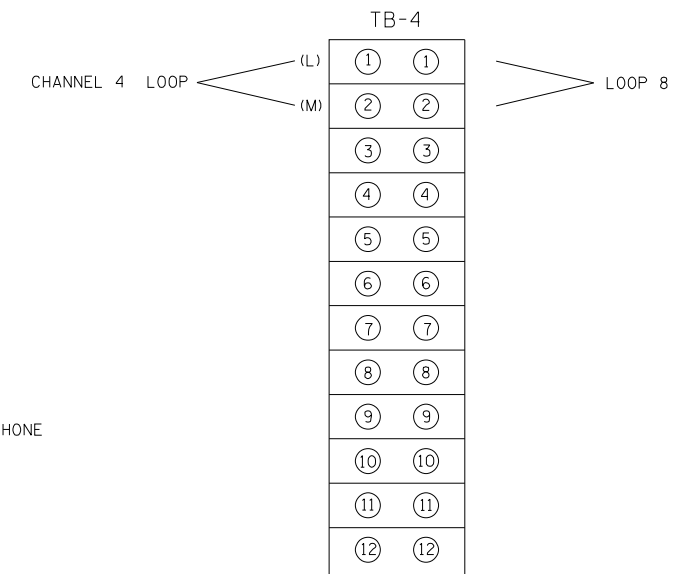
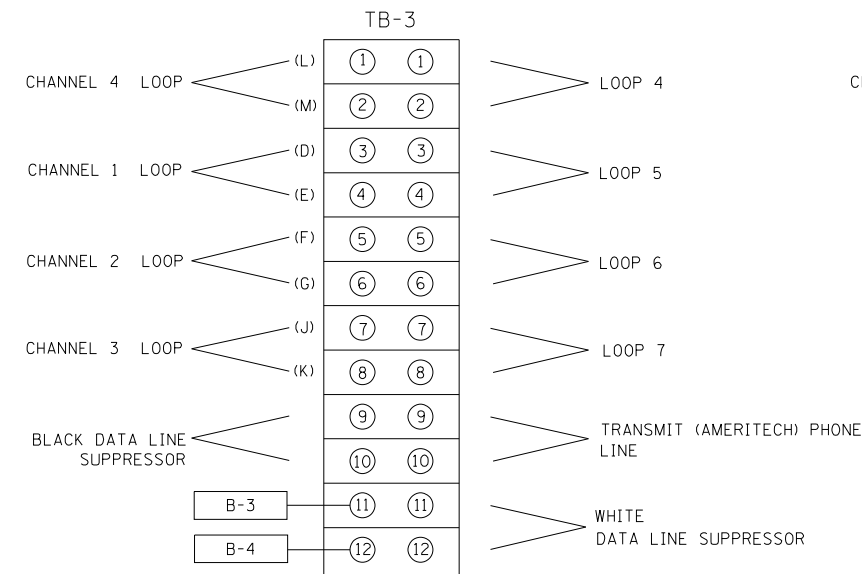
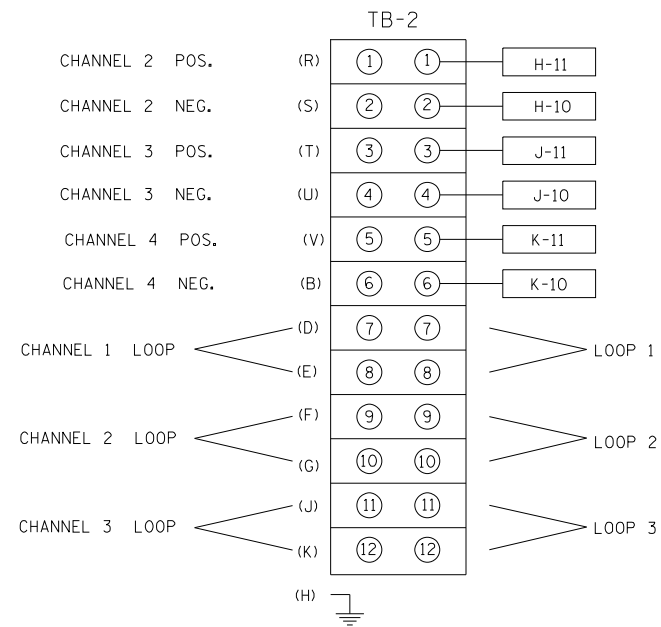
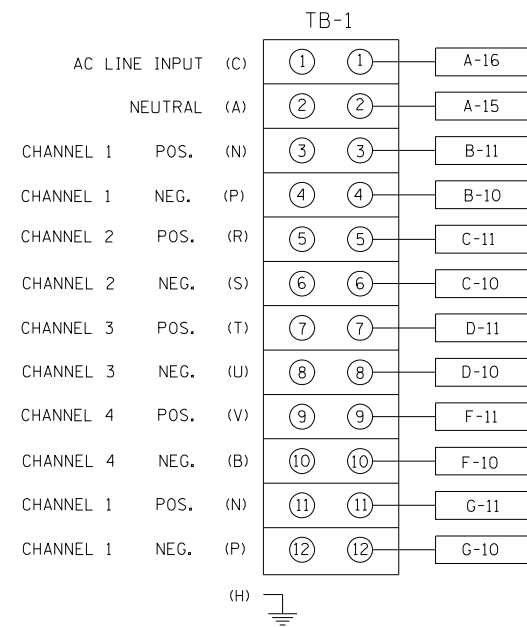
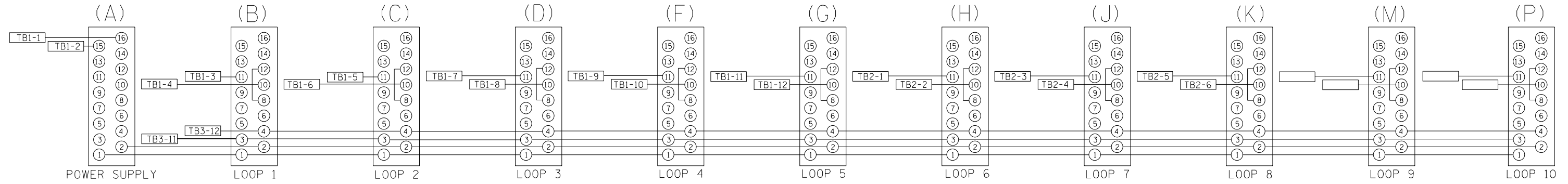
STATE OF ILLINOIS
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TRAFFIC SYSTEMS CENTER

FIELD CRADLE ASSEMBLY
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	272
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-25

BACK VIEW OF TONE RACK



FILE NAME = ...D:\020526-arh-11s-ds-26.dgn



USER NAME = mkosir	DESIGNED - R.L.	REVISED - 02/98
	DRAWN - G.M.	REVISED - 03/99
PLOT SCALE = 1:80' / 1in.	CHECKED - R.L.	REVISED -
PLOT DATE = 4/27/2016	DATE - 04/26/97	REVISED -

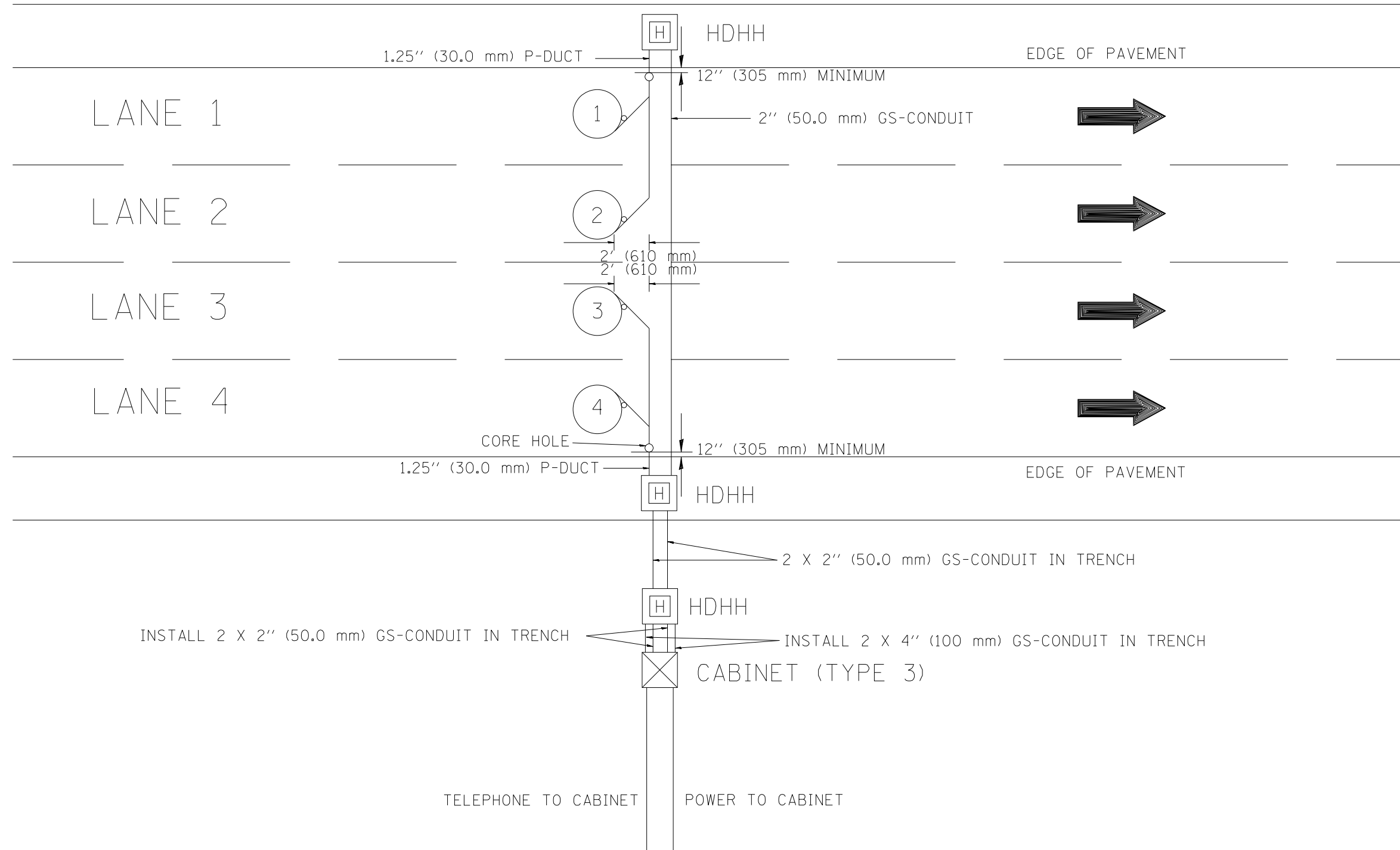
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

TONE RACK WIRING DIAGRAM

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

ITS-26		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		190	1517R-1(13)	COOK	580	273
		CONTRACT NO. 60X56				
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



NOTES

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

FILE NAME = ...D:\020505-ant-tts-ds-27.dgn



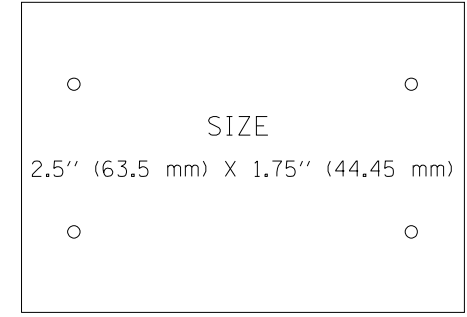
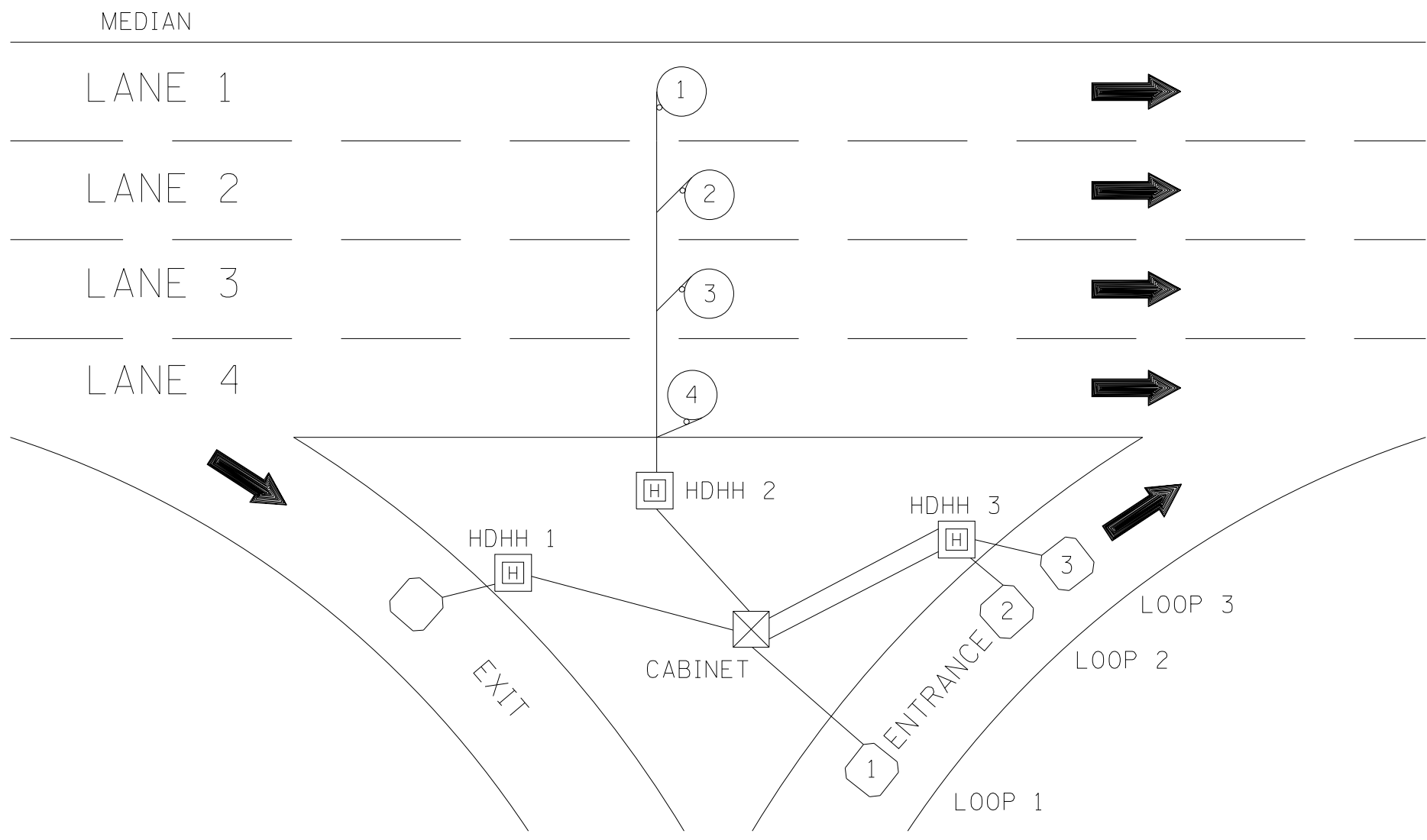
USER NAME = mkosir	DESIGNED - R.L.	REVISED - 02/98
	DRAWN - G.M.	REVISED - 03/99
PLOT SCALE = 1.00' / 1in.	CHECKED - R.L.	REVISED -
PLOT DATE = 4/27/2016	DATE - 04/26/97	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

NEW CONSTRUCTION			
ROUND INDUCTION LOOP			
TYPICAL INSTALLATION			
SCALE: NTS	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	274
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60X56	

ITS-27



SUGGESTED TAG
PANDUIT
#MP250W175-C
OR EQUIVALENT

LOOP ANALYZER					
LOCATION _____			DATE _____		
LOOP LOCATION LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

HDHH 1 EXAMPLE

IB-EB EXIT
CCW IN/
TO CABINET # _____

HDHH 2 EXAMPLE

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

HDHH 3 EXAMPLE

IB-EB ENT.
LOOP #2
CW IN/

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

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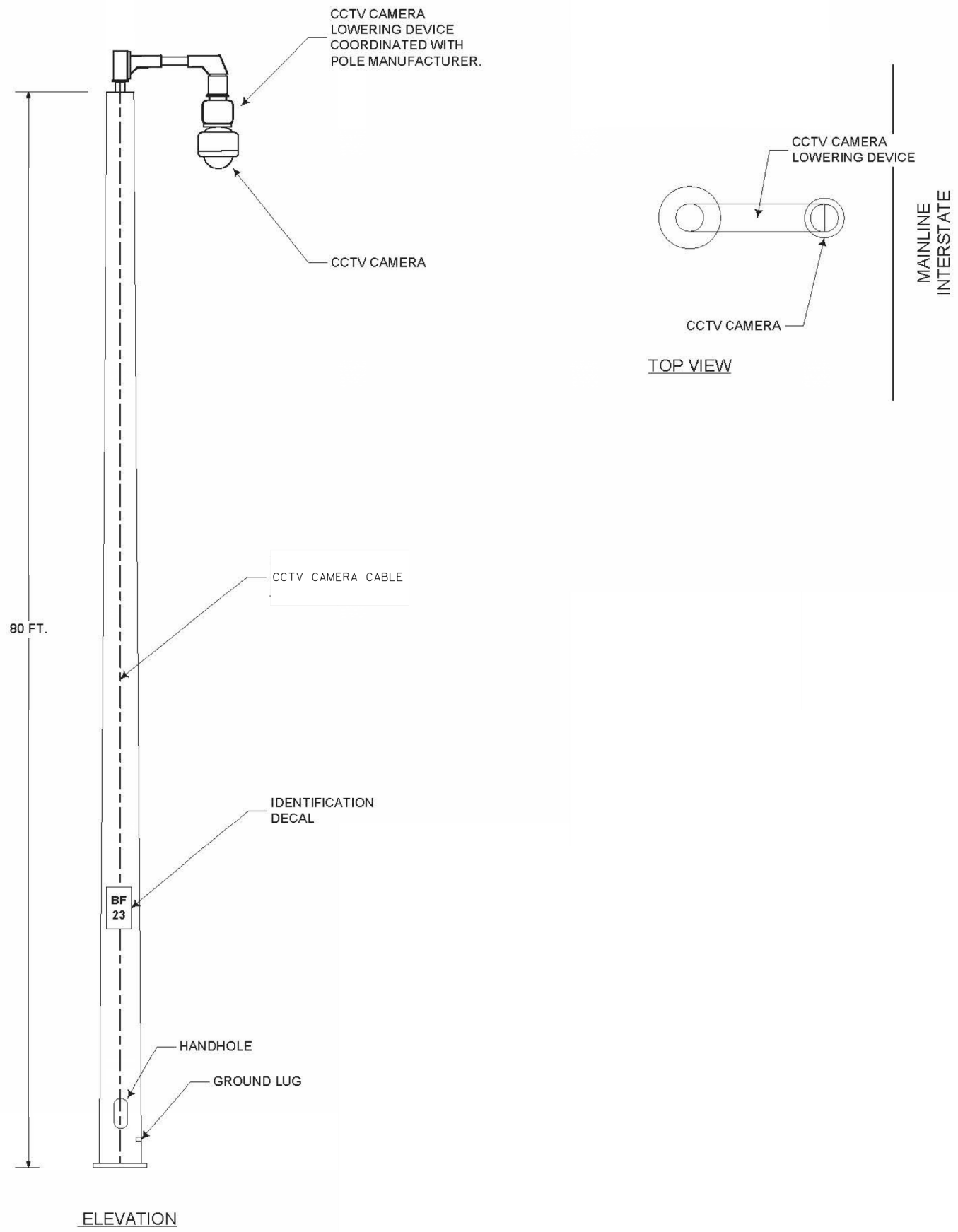
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PLOT DATE = 4/27/2016	DATE - 04/26/97	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

SCALE: NTS		SHEET 1	OF 1	SHEETS	STA.	TO STA.
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LOOP STATUS REPORT

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	275
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60X56	



GENERAL NOTES

1. LOADING AND ALLOWABLE STRESS CRITERIA: 1994 AASHTO
2. MAXIMUM 1-INCH POLE TOP DEFLECTION WITH 30 MPH WIND VELOCITY, NO GUST.
3. LOCATIONS OF THE CCTV CAMERA INSTALLATIONS ARE APPROXIMATE. THE CONTRACTOR MAY ADJUST THE LOCATIONS OF THE INSTALLATIONS TO FACILITATE INSTALLATION WITH WRITTEN APPROVAL OF THE RESIDENT ENGINEER AND THE ELECTRICAL DESIGN SECTION. ALL STANDARD NON-FRANGIBLE SETBACK REQUIREMENTS AS WELL AS CLEAR ZONE REQUIREMENTS SHALL BE MAINTAINED.
4. THE POLE SHALL BE A MAXIMUM OF THREE SECTIONS FOR FIELD ASSEMBLY. THE POLE SHAFTS SHALL BE A ROUND CROSS SECTION AND MEET THE REQUIREMENTS OF ASTM A595 GRADE A WITH A MINIMUM YIELD STRENGTH OF 55,000 PSI. THE BOTTOM SECTION SHALL HAVE A MINIMUM .3125 WALL THICKNESS AND A MINIMUM DIAMETER OF 23". THE POLE SHALL HAVE A PROVISION FOR VENTING AT THE TOP AND BOTTOM TO PREVENT CONDENSATION BUILDUP ON THE INTERIOR OF THE POLE SHAFT.
5. CABLE SUPPORTS SHALL BE PROVIDED OF ALL CABLES INSIDE OF POLE SO THAT NO CABLE LOADING IS EXCEEDED. CALCULATIONS SHALL BE SUBMITTED FOR THE CABLES BEING FURNISHED.
6. ALL EQUIPMENT SHALL BE GROUNDED.
7. DOCUMENTATION SHALL BE SUBMITTED THAT THE POLE IS FULLY COORDINATED WITH THE CAMERA LOWERING DEVICE.
8. ALL CABLES, INCLUDING LOWERING DEVICE CABLES, SHALL BE WITHIN THE POLE SHAFT. EXTERNAL CABLING WILL NOT BE PERMITTED.
9. UNLESS OTHERWISE INDICATED, OR AS DIRECTED BY THE ENGINEER, THE CAMERA LOWERING DEVICE SHALL BE ORIENTED PERPENDICULAR TO THE MAINLINE INTERSTATE FOR THE LEAST OBSTRUCTED VIEW OF THE INTERSTATE ROADWAY.

MATERIAL REQUIREMENTS

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFT	A572 GR. 65	65
BASE PLATE	A36	36
POLE TOP PLATE	A36	36
ANCHOR BOLTS	F1554 GR. 55	55
GALVANIZING, STURCTURE	A123	N/A
GALVANIZING, HARDWARE	A153	N/A

FILE NAME: ...01020205-ant-t-11s-ds-t-29.dgn



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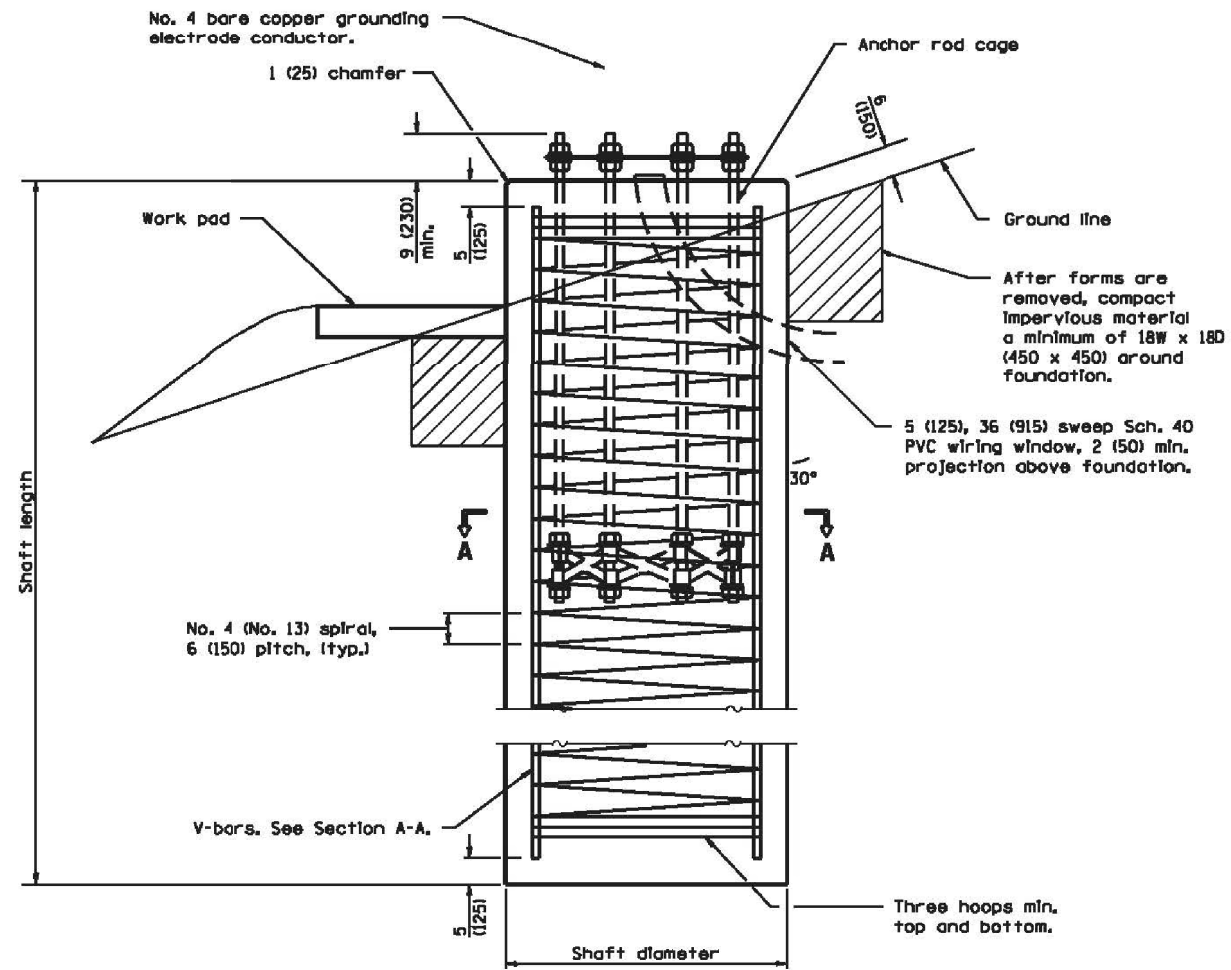
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV CAMERA STRUCTURES
80 FT M.H., GALVANIZED STEEL**

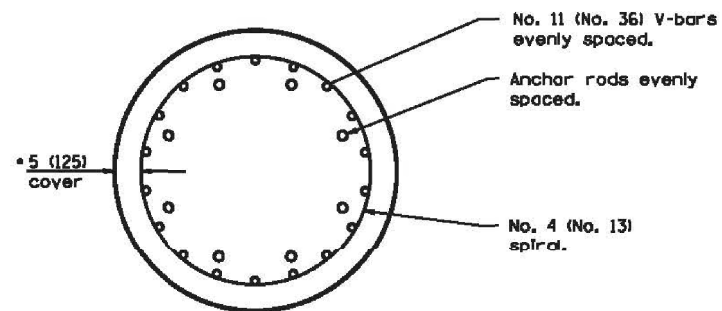
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	276
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-29



FOUNDATION ELEVATION



SECTION A-A

• See Rod and Reinforcement Table.

SHAFT LENGTH TABLE			
SOIL CONSISTENCY	AVERAGE STRENGTH		HEIGHT
	Qu In tsf (Qu In kPa)		80' (24 m)
Cohesive	SOFT	< 0.5 (< 50)	20'-6" (6.2 m)
	MEDIUM	0.5 to 1 (50 to 100)	17'-0" (5.1 m)
	STIFF	1 to 2 (100 to 200)	14'-6" (4.4 m)
	VERY STIFF	2 to 4 (200 to 400)	13'-0" (3.8 m)
	HARD	> 4 (> 400)	11'-6" (3.5 m)
		N In BLOWS/FT. (N In BLOWS/0.3m)	
Granular	VERY LOOSE	< 5 (< 5)	16'-6" (5.0 m)
	LOOSE	5 to 10 (5 to 10)	15'-0" (4.6 m)
	MEDIUM	10 to 25 (10 to 25)	14'-6" (4.4 m)
	DENSE	25 to 50 (25 to 50)	14'-0" (4.1 m)
	VERY DENSE	> 50 (> 50)	13'-0" (3.9 m)

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PLOT DATE = 4/27/2016	DATE = 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV CAMERA STRUCTURE, 80 FT M.H.,
FOUNDATION, SHEET 1 OF 2

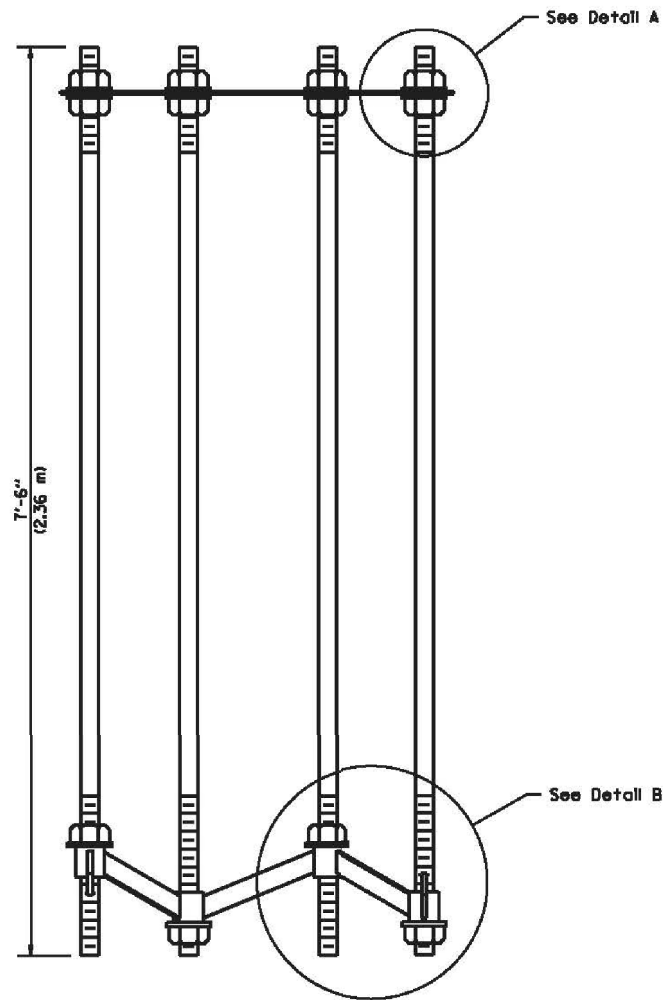
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	277
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

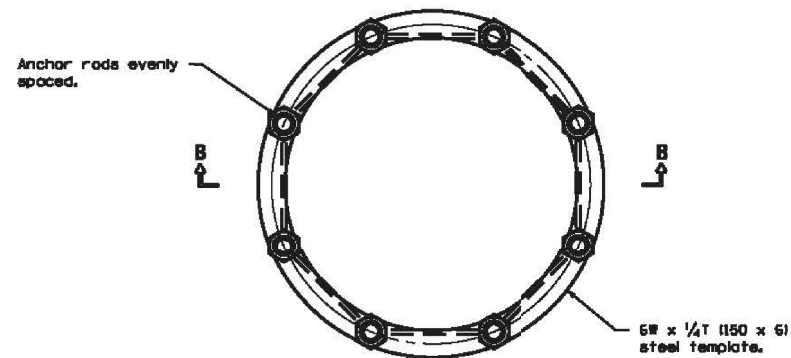
ITS-30

ROD AND REINFORCEMENT TABLE					
TOWER HEIGHT	ANCHOR ROD DIAM. (MIN)	ROD CIRCLE DIAM. (MIN)	TOWER BASE DIAM. (MIN)	DRILLED SHAFT DIAM. ①	V BAR QTY.
80' (25 m)	1/2 (38)	30 (760)	24 (610)	4'-0" (1.2 m)	14

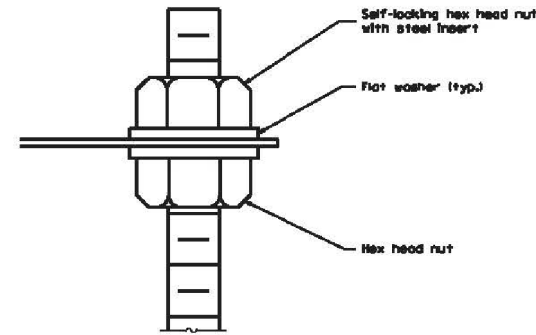
① Diameter based on a 5 (125) conc. cover. The min. cover shall be 3 (75) in dry shaft excavation and 4 (100) in a wet hole. When rock is encountered a 5 (125) cover against soil and a 2 (50) cover against rock shall be required.



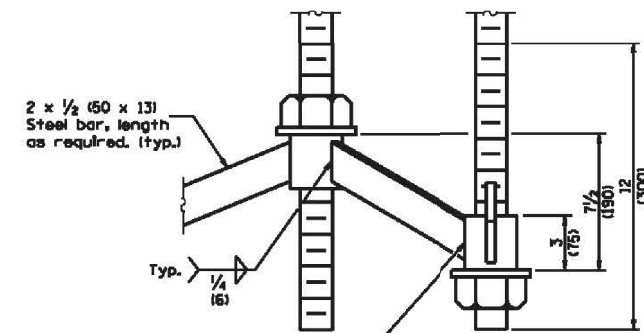
SECTION B-B



ANCHOR ROD CAGE (PLAN)



DETAIL A



DETAIL B

GENERAL NOTES

Anchor rod quantity, diameter, and length shall be determined by the CCTV structure manufacturer and approved by the Engineer. Each foundation shall have a minimum of 8 anchor rods.

All foundation reinforcement steel shall be epoxy coated.

The cost of reinforcement shall be included in the cost of the foundation.

Steel anchor rod forms shall not be removed for a minimum of 3 days after concrete is poured. The tower shall not be set for a minimum of 7 days or as approved by the Engineer.

Coordinate the rod circle diameter of the structure with the diameter of the anchor rod cage.

The foundation shall be poured monolithically and shall have no construction joints.

Grounding electrodes shall be installed in an access well when there is a conflict in using the method shown.

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

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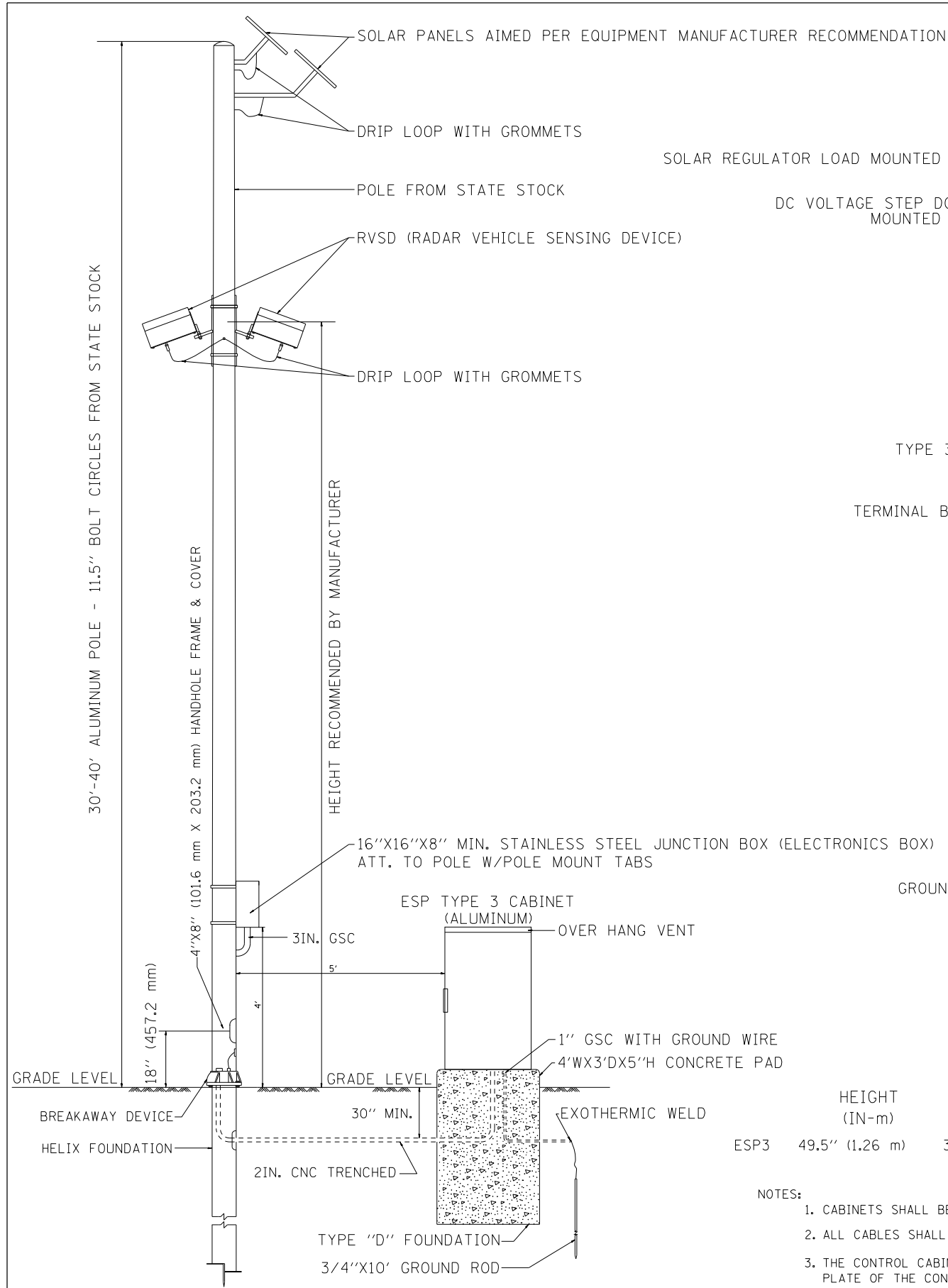
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV CAMERA STRUCTURE, 80 FT M.H.,
FOUNDATION, SHEET 2 OF 2

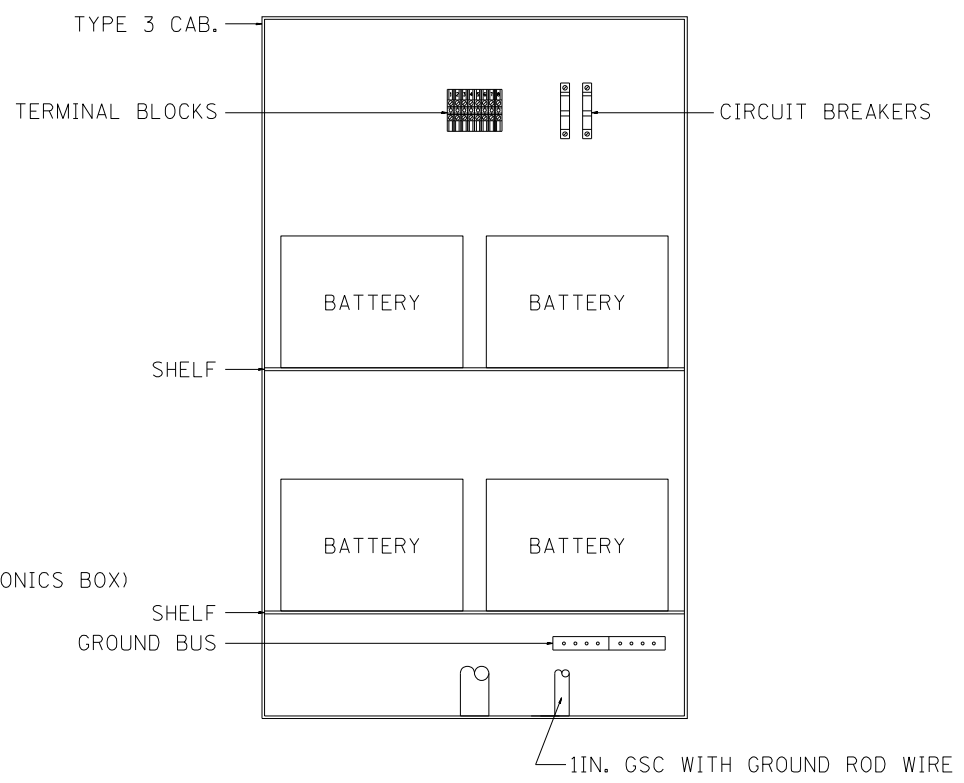
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	278
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

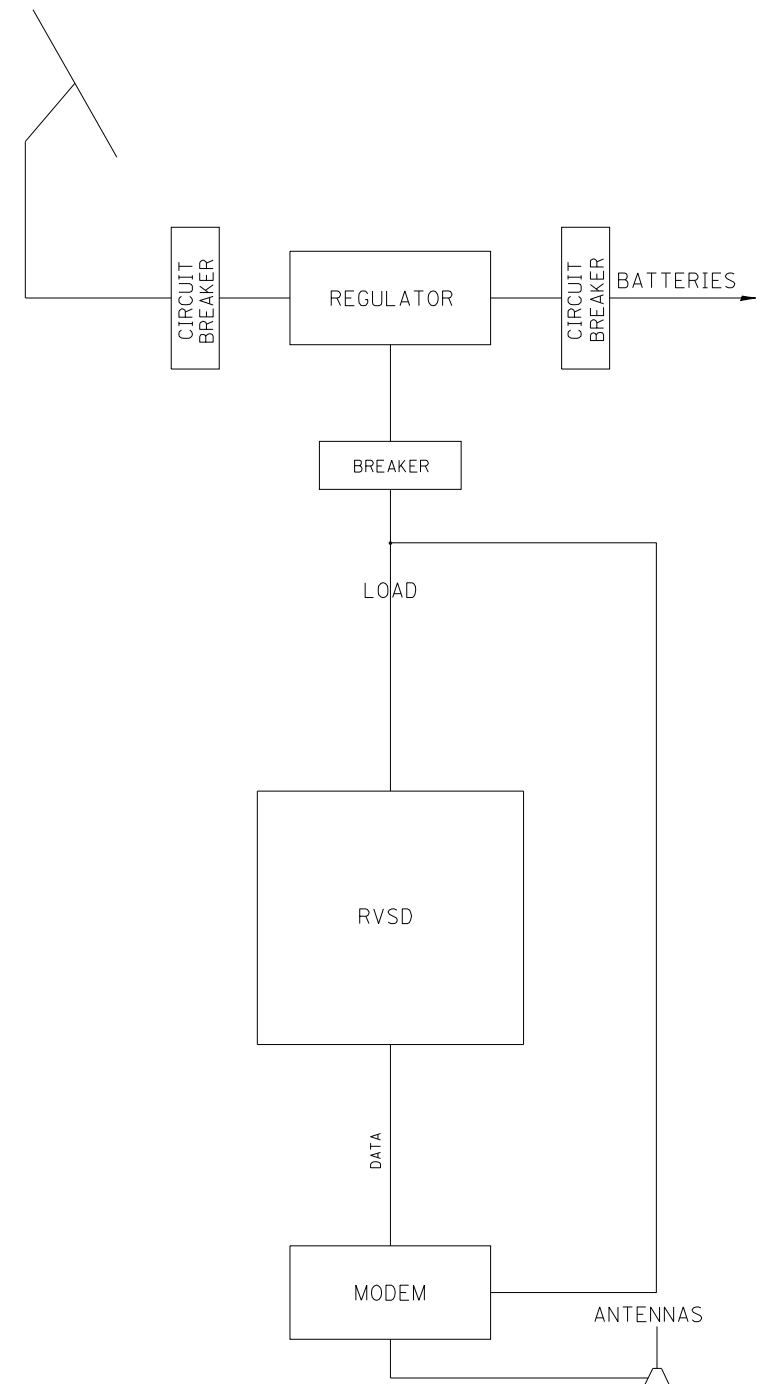
ITS-31



JUNCTION BOX DETAIL



ESP 3 CABINET DETAIL



ELECTRONICS WIRING DIAGRAM

	HEIGHT (IN-m)	WIDTH (IN-m)	DEPTH (IN-mm)	THICKNESS (IN-mm)	MATERIAL
ESP3	49.5" (1.26 m)	30" (762.0m)	17" (431.8mm)	3/16 " (4.76mm)	FABRICATED ALUMINUM

- NOTES:
- CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION T400 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS".
 - ALL CABLES SHALL BE PERMANENTLY LABELED WITH TO/FROM DESIGNATIONS.
 - 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. BASES SHALL BE CAULKED TO MAKE A MOISTURE PROOF BOND WITH FOUNDATION.
 - THE CONTRACTOR SHALL SUPPLY 3 WIRING DIAGRAMS, 1 TO ELECTRICAL, 1 TO EMC AND 1 IN CABINET. THE CABINET DIAGRAM SHALL BE IN A PLASTIC POUCH ATTACHED TO THE INSIDE OF DOOR.
 - USE EXISTING HOLES IN POLES WHERE POSSIBLE. DRILL NEW HOLES AS NECESSARY AND FILL UNUSED HOLES W/GROMMETS.

FRONT VIEW OF POLE, SOLAR ARRAY, AND RVSS

FILE NAME = ...01020205-ant-11s-dfs-32.dgn



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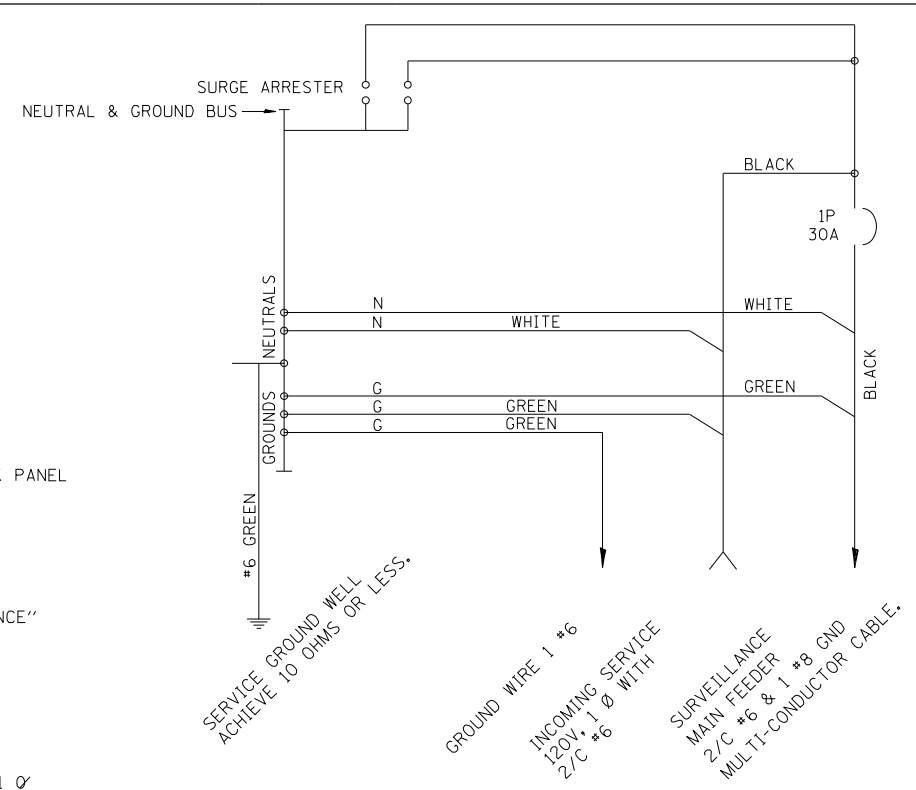
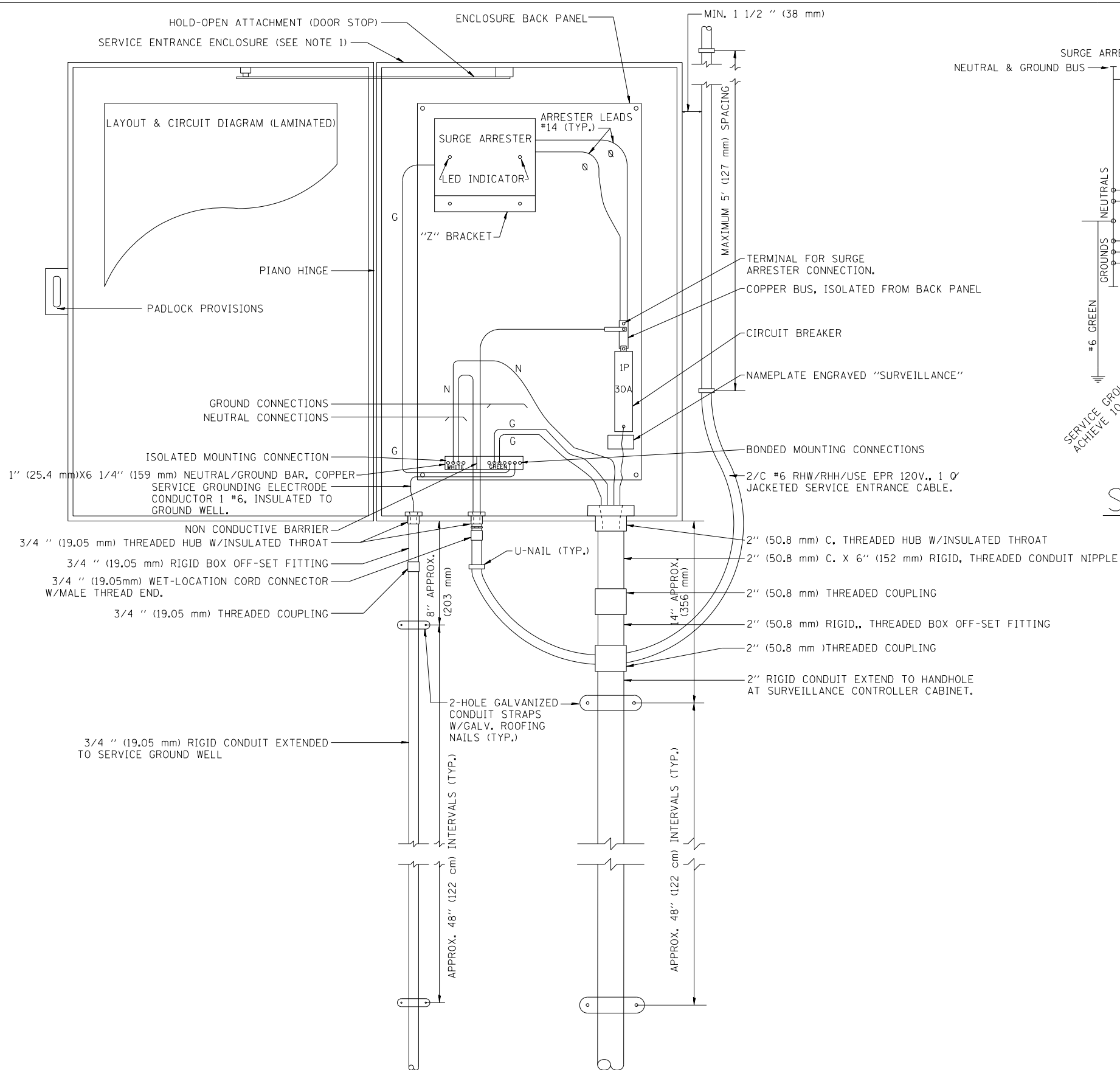
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOLAR POWERED RVSS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	279
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-32



SCHMATIC DIAGRAM

- NOTES:
- 1.- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED. WHERE 120-VOLT SERVICE IS INDICATED, SERVICE DROP CABLE SHALL BE INSTALLED ACCORDINGLY AND LIGHTING MAIN FEEDER CABLE SHALL BE OMITTED.
 - 2.- THE ELECTRIC SERVICE BOX SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" (305 mm) X 18" (457 mm) X 8" (203 mm), WITH PIANO HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS, DOOR STOP KIT AND STEEL BACK PANEL, HOFFMAN CATALOG A-16H120BSS6LP/A-16P2/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
 - 3.- THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LABELED, SUITABLE FOR USE AS SERVICE EQUIPMENT.
 - 4.- CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 - 5.- THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF >3600 JOULES OR BETTER AT 8/20 MICROSECONDS, RATED -40 TO 65 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CMOV 230L065XST OR APPROVED EQUAL. SURGE PROTECTOR SHALL BE WIRED FOR 120 V SERVICE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.
 - 6.- BUS BARS, CONNECTORS AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS.
 - 7.- THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE.
 - 8.- A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE AFFIXED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 - 9.- A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 - 10.- PROVIDE ON LAYOUT AND CIRCUIT DIAGRAM A BILL OF MATERIALS USED WITH CATALOG NUMBERS.
 - 11.- REFER TO T.S.C. TYPICAL DRAWING TY-1TSC-400*20 FOR POLE MOUNTED DISCONNECT MOUNTING DETAILS.

ELECTRIC SERVICE
GENERAL LAYOUT DIAGRAM

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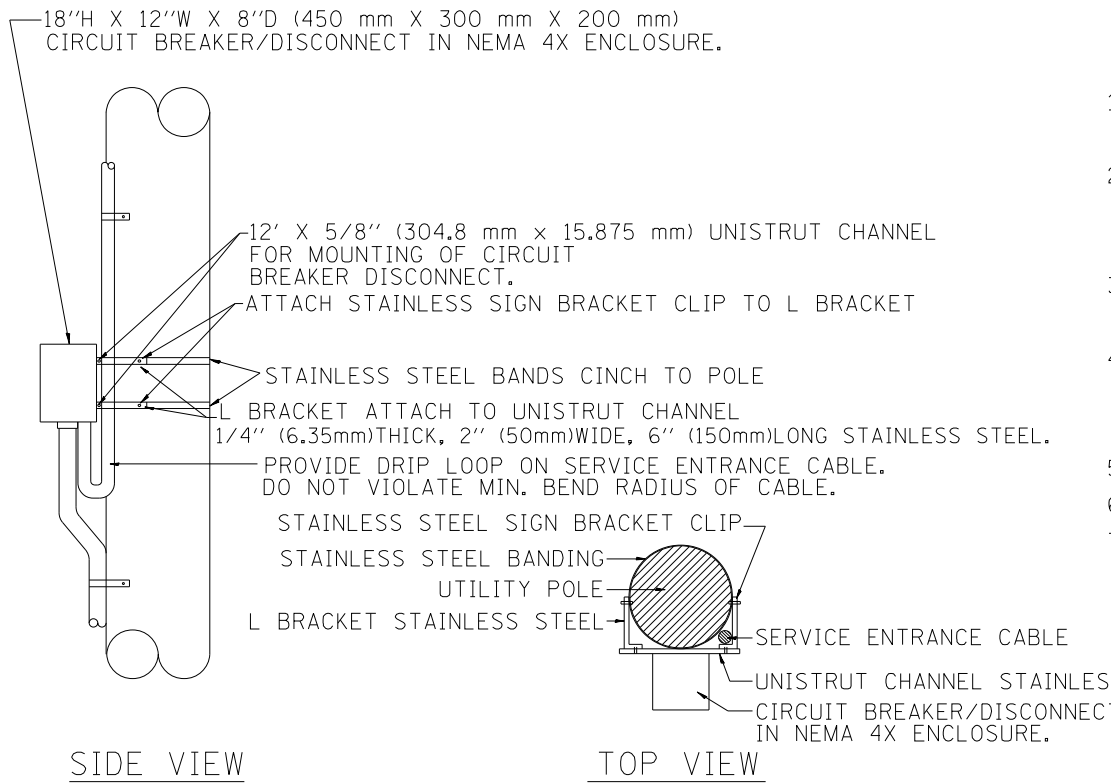
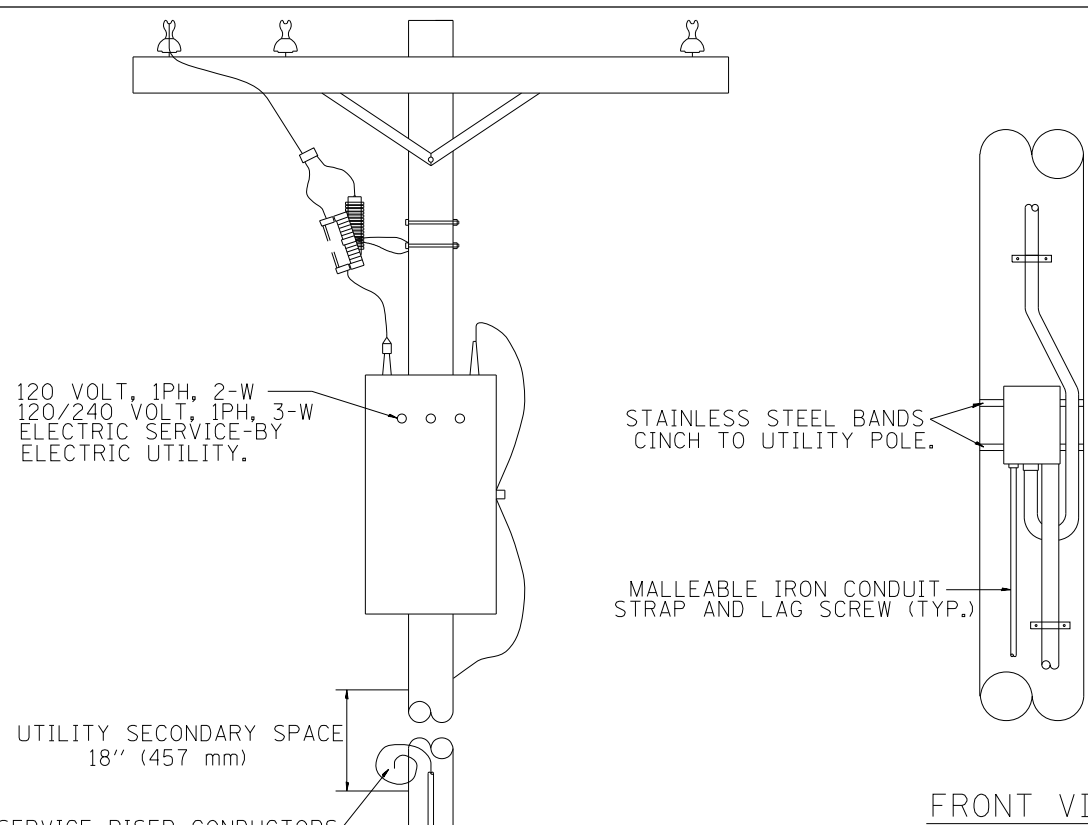
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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

DISTRICT 1			
SURVEILLANCE POLE-MOUNTED			
ELECTRIC SERVICE BOX DETAIL			
SCALE: NTS	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	280
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

ITS-33

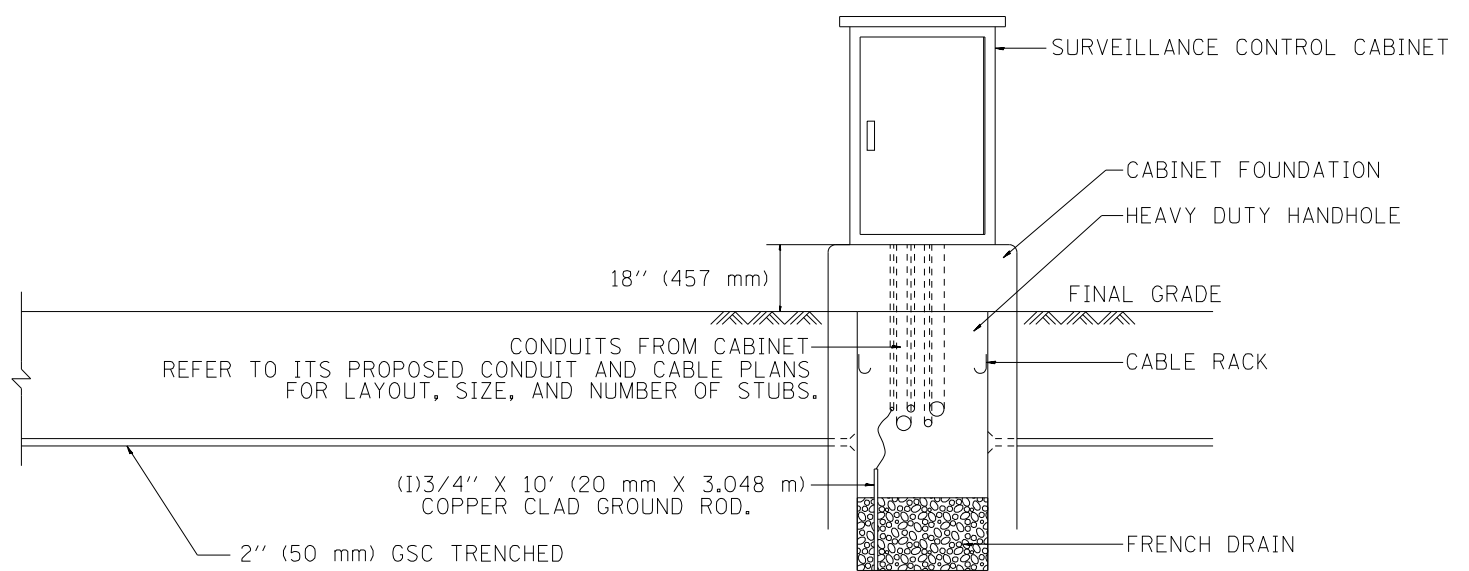
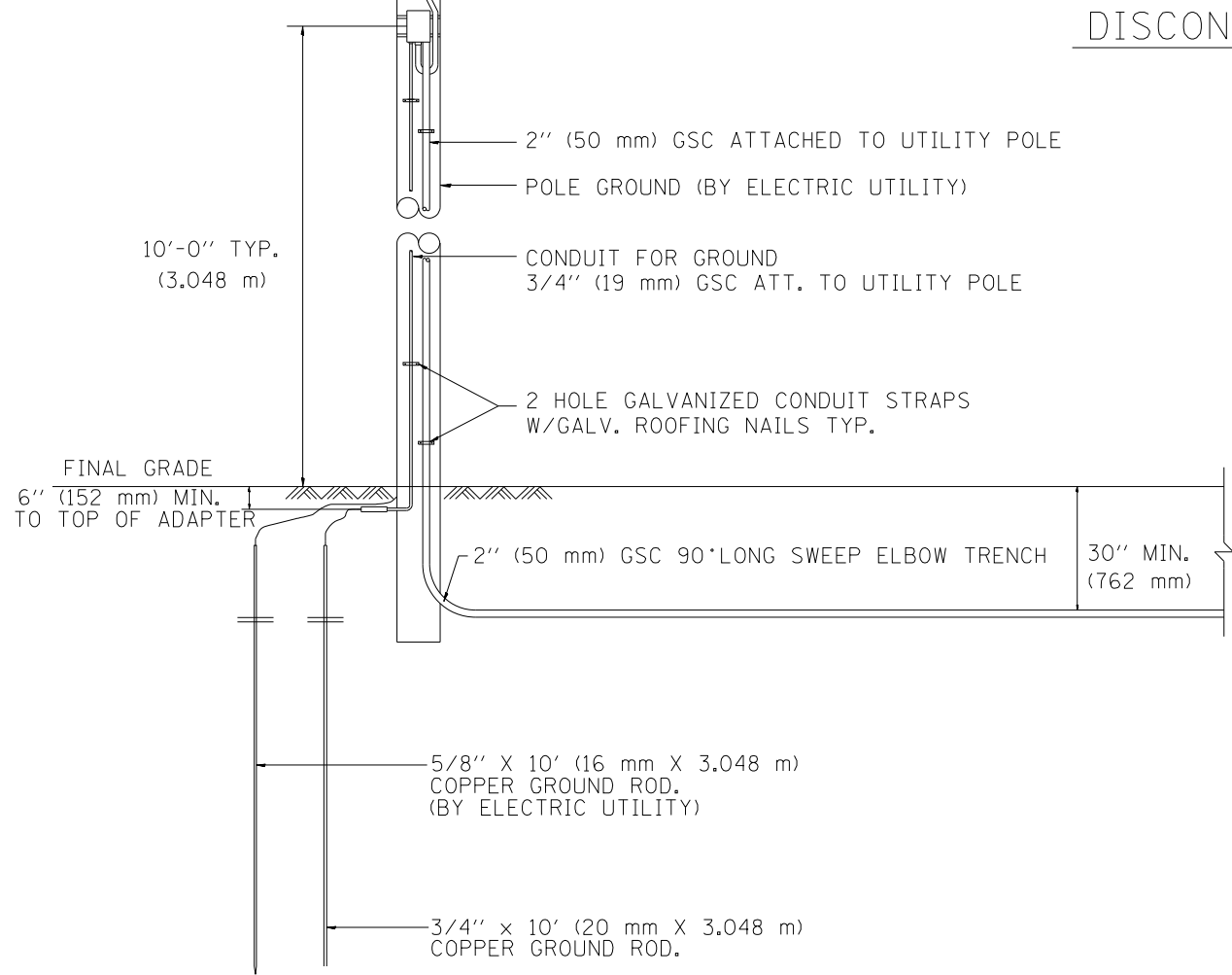


FRONT VIEW

SIDE VIEW

TOP VIEW

NTS
DISCONNECT MOUNTING DETAIL



- NOTES:
- 1.- ALL CONDUIT BUSHINGS SHALL HAVE AN ISOLATED THROAT.
 - 2.- PROVIDE HEAT SHRINK BOOT AT THE TOP OF THE SERVICE ENTRANCE CABLE FOR MOISTURE PROOFING.
 - 3.- ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC UNLESS OTHERWISE NOTED.
 - 4.- ATTACH INCOMING ELECTRIC SERVICE CABLE TO UTILITY POLE EVERY 5 FEET USING INSULATED U-NAIL.
 - 5.- PROVIDE CABLE RACK IN HANDHOLES.
 - 6.- ALL CONDUCTORS SHALL BE COPPER.
 - 7.- PROVIDE STAINLESS STEEL HARDWARE TO ATTACH L BRACKETS TO UNISTRUT AND TO SIGN HANGER.

FILE NAME: \\hntb\p0556\hntb\p0556\mtdoc\p0556\Documents\Chicago\Projects\30120 1-190_Cumberland\Design\CADD\Contract\60X56\sh\ts\det-33a.dgn



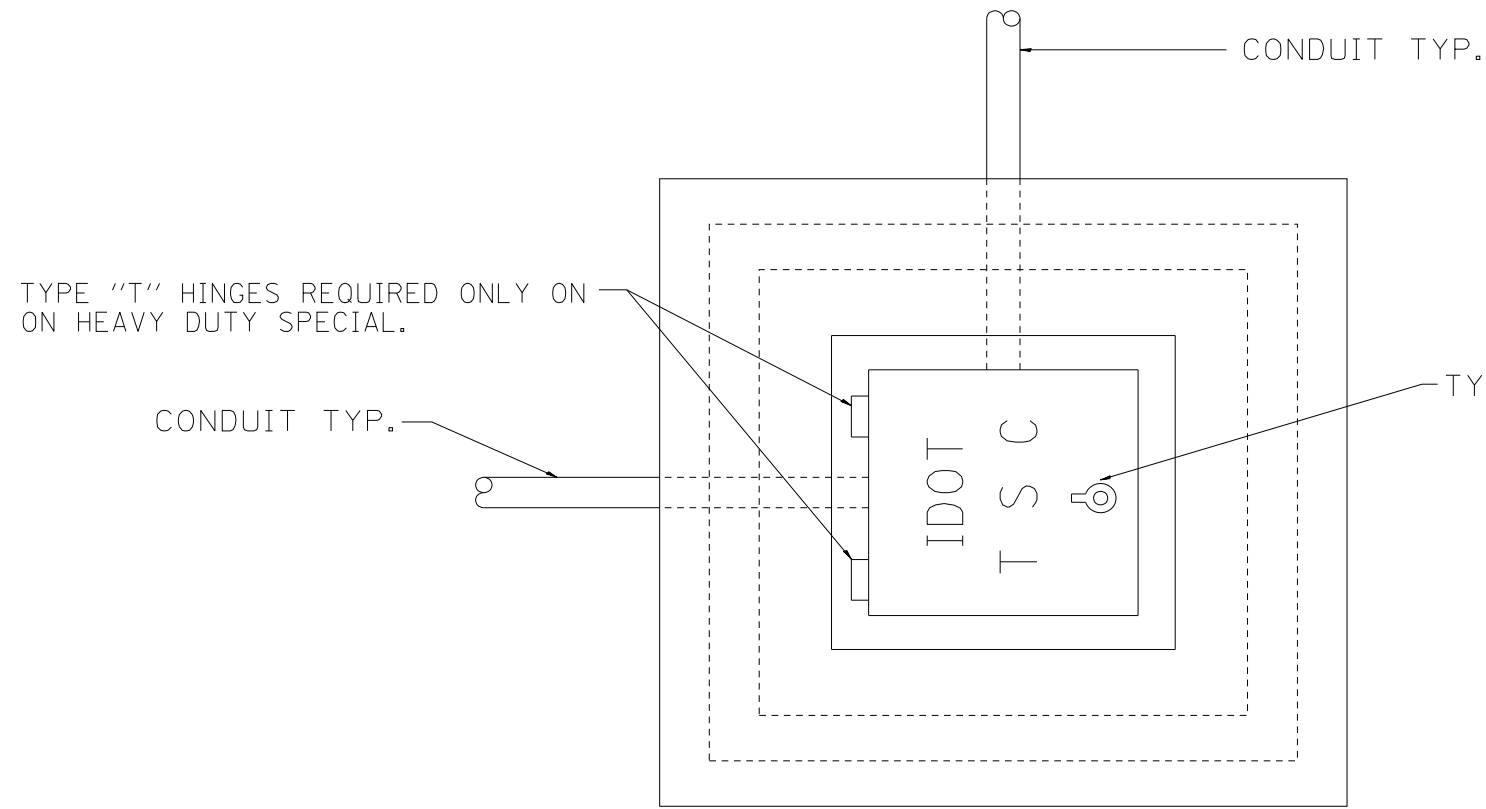
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	DATE = 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

DISTRICT 1	
POLE-MOUNTED	
DISCONNECT MOUNTING DETAILS	
SCALE: NTS	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	281
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-33A

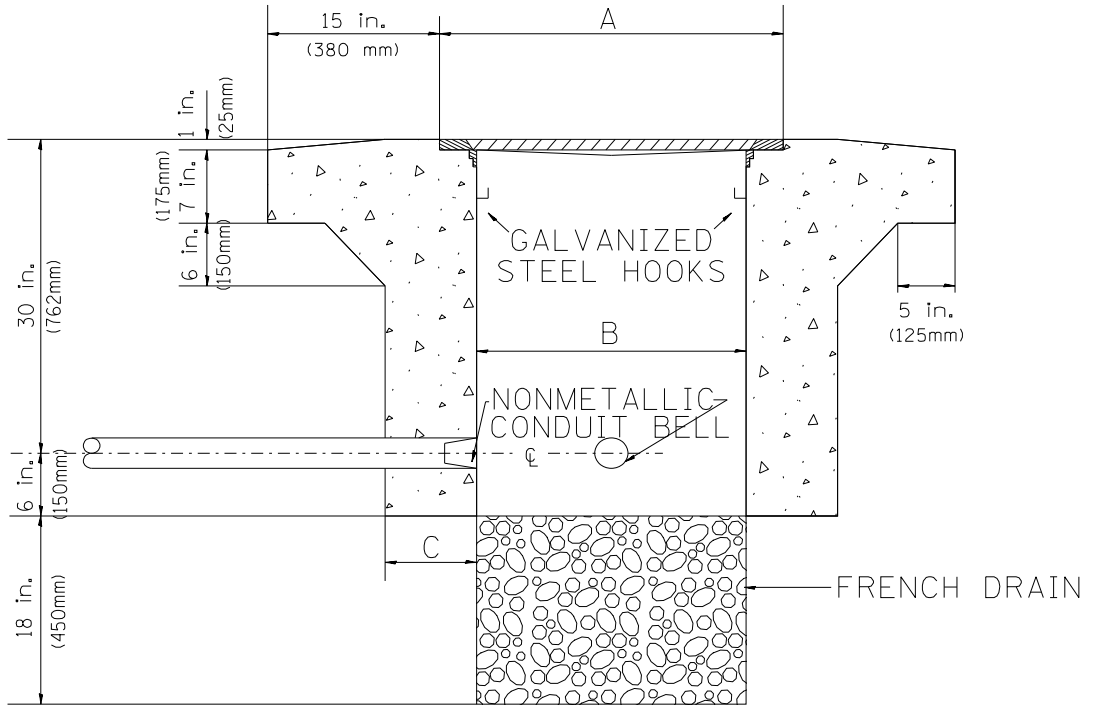


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

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

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



ELEVATION

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

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

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

PC CONCRETE - HEAVY DUTY HAND HOLE

FILE NAME = ...01020205-ans-11s-ds-34.dgn



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PLOT SCALE = 1.00' / 1in.	DRAWN - G.M.	REVISED -
PLOT DATE = 4/27/2016	CHECKED - R.L.	REVISED -
	DATE - 09/11/96	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

PC CONCRETE - HEAVY DUTY HAND HOLE			
SCALE: NTS	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE. 190	SECTION 1517R-1(13)	COUNTY COOK	TOTAL SHEETS 580	SHEET NO. 282
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	PLAZA 19			
DISTRIBUTION CABLE DESIGNATION			DCF-KE-05a	DESTINATION	FO SPLICE CABINET (DES PLAINES RIVER)			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	DCF-KE-05b, ORA/BLU 1	GREEN	Blue	25	CAPPED AND COILED	
	Orange	2	DCF-KE-05b, ORA/ORA 2		Orange	26	CAPPED AND COILED	
	Green	3	DCF-KE-05b, ORA/GRE 3		Green	27	CAPPED AND COILED	
	Brown	4	DCF-KE-05b, ORA/BRO 4		Brown	28	CAPPED AND COILED	
	Slate	5	DCF-KE-05b, ORA/SLA 5		Slate	29	CAPPED AND COILED	
	White	6	DCF-KE-05b, ORA/WHI 6		White	30	CAPPED AND COILED	
	Red	7	DCF-KE-05b, ORA/RED 7		Red	31	CAPPED AND COILED	
	Black	8	DCF-KE-05b, ORA/BLA 8		Black	32	CAPPED AND COILED	
	Yellow	9	DCF-KE-05b, ORA/YEL 9		Yellow	33	CAPPED AND COILED	
	Violet	10	DCF-KE-05b, ORA/VIO 10		Violet	34	CAPPED AND COILED	
	Rose	11	DCF-KE-05b, ORA/ROS 11		Rose	35	CAPPED AND COILED	
	Aqua	12	DCF-KE-05b, ORA/AQU 12		Aqua	36	CAPPED AND COILED	
ORANGE	Blue	13	CAPPED AND COILED	BROWN	Blue	37	CAPPED AND COILED	
	Orange	14	CAPPED AND COILED		Orange	38	CAPPED AND COILED	
	Green	15	CAPPED AND COILED		Green	39	CAPPED AND COILED	
	Brown	16	CAPPED AND COILED		Brown	40	CAPPED AND COILED	
	Slate	17	CAPPED AND COILED		Slate	41	CAPPED AND COILED	
	White	18	CAPPED AND COILED		White	42	CAPPED AND COILED	
	Red	19	CAPPED AND COILED		Red	43	CAPPED AND COILED	
	Black	20	CAPPED AND COILED		Black	44	CAPPED AND COILED	
	Yellow	21	CAPPED AND COILED		Yellow	45	CAPPED AND COILED	
	Violet	22	CAPPED AND COILED		Violet	46	CAPPED AND COILED	
	Rose	23	CAPPED AND COILED		Rose	47	CAPPED AND COILED	
	Aqua	24	CAPPED AND COILED		Aqua	48	CAPPED AND COILED	

DCF-KE-05a FROM THE NORTH

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	PUMP STATION 24			
DISTRIBUTION CABLE DESIGNATION			DCF-KE-05b	DESTINATION	FO SPLICE CABINET (DES PLAINES RIVER)			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	TDCF-KE-05, BLU/BLU 1	ORANGE	Blue	13	DCF-KE-05a, BLU/BLU 1	
	Orange	2	TDCF-KE-05, BLU/ORA 2		Orange	14	DCF-KE-05a, BLU/ORA 2	
	Green	3	TDCF-KE-05, BLU/GRE 3		Green	15	DCF-KE-05a, BLU/GRE 3	
	Brown	4	TDCF-KE-05, BLU/BRO 4		Brown	16	DCF-KE-05a, BLU/BRO 4	
	Slate	5	TDCF-KE-05, BLU/SLA 5		Slate	17	DCF-KE-05a, BLU/SLA 5	
	White	6	TDCF-KE-05, BLU/WHI 6		White	18	DCF-KE-05a, BLU/WHI 6	
	Red	7	TDCF-KE-05, BLU/RED 7		Red	19	DCF-KE-05a, BLU/RED 7	
	Black	8	TDCF-KE-05, BLU/BLA 8		Black	20	DCF-KE-05a, BLU/BLA 8	
	Yellow	9	TDCF-KE-05, BLU/YEL 9		Yellow	21	DCF-KE-05a, BLU/YEL 9	
	Violet	10	TDCF-KE-05, BLU/VIO 10		Violet	22	DCF-KE-05a, BLU/VIO 10	
	Rose	11	TDCF-KE-05, BLU/ROS 11		Rose	23	DCF-KE-05a, BLU/ROS 11	
	Aqua	12	TDCF-KE-05, BLU/AQU 12		Aqua	24	DCF-KE-05a, BLU/AQU 12	

DCF-KE-05b FROM THE WEST

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	CABINET KE14-T			
DISTRIBUTION CABLE DESIGNATION			TDCF-KE-05	DESTINATION	FO SPLICE CABINET (DES PLAINES RIVER)			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	DCF-KE-05b, BLU/BLU 1					
	Orange	2	DCF-KE-05b, BLU/ORA 2					
	Green	3	DCF-KE-05b, BLU/GRE 3					
	Brown	4	DCF-KE-05b, BLU/BRO 4					
	Slate	5	DCF-KE-05b, BLU/SLA 5					
	White	6	DCF-KE-05b, BLU/WHI 6					
	Red	7	DCF-KE-05b, BLU/RED 7					
	Black	8	DCF-KE-05b, BLU/BLA 8					
	Yellow	9	DCF-KE-05b, BLU/YEL 9					
	Violet	10	DCF-KE-05b, BLU/VIO 10					
	Rose	11	DCF-KE-05b, BLU/ROS 11					
	Aqua	12	DCF-KE-05b, BLU/AQU 12					

TDCF-KE-05 FROM THE EAST

FILE NAME = ...D:\020505-apt-11s-ds-35.dgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS			
FO SPLICE CABINET (DES PLAINES RIVER)			
SCALE: NTS	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	283
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

ITS-35

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	FO SPLICE CABINET (DES PLAINES RIVER)
DISTRIBUTION CABLE DESIGNATION			TDCF-KE-05	DESTINATION	CABINET KE14-T
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT		
BLUE	Blue	1	ETHERNET SWITCH (KE14-T)		
	Orange	2	ETHERNET SWITCH (KE14-T)		
	Green	3	SPLICE THRU		
	Brown	4	SPLICE THRU		
	Slate	5	SPLICE THRU		
	White	6	SPLICE THRU		
	Red	7	SPLICE THRU		
	Black	8	SPLICE THRU		
	Yellow	9	SPLICE THRU		
	Violet	10	SPLICE THRU		
	Rose	11	SPLICE THRU		
	Aqua	12	SPLICE THRU		

TDCF-KE-05 FROM THE WEST

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	CABINET KE13A-T
DISTRIBUTION CABLE DESIGNATION			TDCF-KE-05	DESTINATION	CABINET KE14-T
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT		
BLUE	Blue	1	ETHERNET SWITCH (KE14-T)		
	Orange	2	ETHERNET SWITCH (KE14-T)		
	Green	3	SPLICE THRU		
	Brown	4	SPLICE THRU		
	Slate	5	SPLICE THRU		
	White	6	SPLICE THRU		
	Red	7	SPLICE THRU		
	Black	8	SPLICE THRU		
	Yellow	9	SPLICE THRU		
	Violet	10	SPLICE THRU		
	Rose	11	SPLICE THRU		
	Aqua	12	SPLICE THRU		

TDCF-KE-05 FROM THE EAST

FILE NAME = ...D:\2016\2016-05-27\1517R-1(13)-ITS-36.dgn



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PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS
CABINET KE14-T

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	284
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

ITS-36

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	CABINET KE14-T
DISTRIBUTION CABLE DESIGNATION			TDCF-KE-05	DESTINATION	CABINET KE13A-T
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT		
BLUE	Blue	1	ETHERNET SWITCH (KE13A-T)		
	Orange	2	ETHERNET SWITCH (KE13A-T)		
	Green	3	SPlice THRU		
	Brown	4	SPlice THRU		
	Slate	5	SPlice THRU		
	White	6	SPlice THRU		
	Red	7	SPlice THRU		
	Black	8	SPlice THRU		
	Yellow	9	SPlice THRU		
	Violet	10	SPlice THRU		
	Rose	11	SPlice THRU		
	Aqua	12	SPlice THRU		

TDCF-KE-05 FROM THE WEST

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	CABINET KE13-T
DISTRIBUTION CABLE DESIGNATION			TDCF-KE-05	DESTINATION	CABINET KE13A-T
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT		
BLUE	Blue	1	ETHERNET SWITCH (KE13A-T)		
	Orange	2	ETHERNET SWITCH (KE13A-T)		
	Green	3	SPlice THRU		
	Brown	4	SPlice THRU		
	Slate	5	SPlice THRU		
	White	6	SPlice THRU		
	Red	7	SPlice THRU		
	Black	8	SPlice THRU		
	Yellow	9	SPlice THRU		
	Violet	10	SPlice THRU		
	Rose	11	SPlice THRU		
	Aqua	12	SPlice THRU		

TDCF-KE-05 FROM THE EAST

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS
CABINET KE13A-T

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	285
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

ITS-37

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	CABINET KE13A-T
DISTRIBUTION CABLE DESIGNATION			TDCF-KE-05	DESTINATION	CABINET KE13-T
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT		
BLUE	Blue	1	ETHERNET SWITCH (KE13-T)		
	Orange	2	ETHERNET SWITCH (KE13-T)		
	Green	3	CAPPED AND COILED		
	Brown	4	CAPPED AND COILED		
	Slate	5	CAPPED AND COILED		
	White	6	CAPPED AND COILED		
	Red	7	CAPPED AND COILED		
	Black	8	CAPPED AND COILED		
	Yellow	9	CAPPED AND COILED		
	Violet	10	CAPPED AND COILED		
	Rose	11	CAPPED AND COILED		
	Aqua	12	CAPPED AND COILED		

TDCF-KE-05 FROM THE WEST

FILE NAME = ...D:\2016\2016-ans-11-15-ds-38.dgn



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY DISTRIBUTION CABLE FIBER ASSIGNMENTS
CABINET KE13-T

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	286
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

ITS-38

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION		COMM. VAULT CMV-KE-05a	
TRUNK CABLE DESIGNATION			TCF-KE-05	DESTINATION		COMM. VAULT CMV-KE-05m	
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	CAPPED AND COILED	SLATE	Blue	49	CAPPED AND COILED
	Orange	2	CAPPED AND COILED		Orange	50	CAPPED AND COILED
	Green	3	CAPPED AND COILED		Green	51	CAPPED AND COILED
	Brown	4	CAPPED AND COILED		Brown	52	CAPPED AND COILED
	Slate	5	CAPPED AND COILED		Slate	53	CAPPED AND COILED
	White	6	CAPPED AND COILED		White	54	CAPPED AND COILED
	Red	7	CAPPED AND COILED		Red	55	CAPPED AND COILED
	Black	8	CAPPED AND COILED		Black	56	CAPPED AND COILED
	Yellow	9	CAPPED AND COILED		Yellow	57	CAPPED AND COILED
	Violet	10	CAPPED AND COILED		Violet	58	CAPPED AND COILED
	Rose	11	CAPPED AND COILED		Rose	59	CAPPED AND COILED
	Aqua	12	CAPPED AND COILED		Aqua	60	CAPPED AND COILED
ORANGE	Blue	13	CAPPED AND COILED	WHITE	Blue	61	CAPPED AND COILED
	Orange	14	CAPPED AND COILED		Orange	62	CAPPED AND COILED
	Green	15	CAPPED AND COILED		Green	63	CAPPED AND COILED
	Brown	16	CAPPED AND COILED		Brown	64	CAPPED AND COILED
	Slate	17	CAPPED AND COILED		Slate	65	CAPPED AND COILED
	White	18	CAPPED AND COILED		White	66	CAPPED AND COILED
	Red	19	CAPPED AND COILED		Red	67	CAPPED AND COILED
	Black	20	CAPPED AND COILED		Black	68	CAPPED AND COILED
	Yellow	21	CAPPED AND COILED		Yellow	69	CAPPED AND COILED
	Violet	22	CAPPED AND COILED		Violet	70	CAPPED AND COILED
	Rose	23	CAPPED AND COILED		Rose	71	CAPPED AND COILED
	Aqua	24	CAPPED AND COILED		Aqua	72	CAPPED AND COILED
GREEN	Blue	25	CAPPED AND COILED	RED	Blue	73	CAPPED AND COILED
	Orange	26	CAPPED AND COILED		Orange	74	CAPPED AND COILED
	Green	27	CAPPED AND COILED		Green	75	CAPPED AND COILED
	Brown	28	CAPPED AND COILED		Brown	76	CAPPED AND COILED
	Slate	29	CAPPED AND COILED		Slate	77	CAPPED AND COILED
	White	30	CAPPED AND COILED		White	78	CAPPED AND COILED
	Red	31	CAPPED AND COILED		Red	79	CAPPED AND COILED
	Black	32	CAPPED AND COILED		Black	80	CAPPED AND COILED
	Yellow	33	CAPPED AND COILED		Yellow	81	CAPPED AND COILED
	Violet	34	CAPPED AND COILED		Violet	82	CAPPED AND COILED
	Rose	35	CAPPED AND COILED		Rose	83	CAPPED AND COILED
	Aqua	36	CAPPED AND COILED		Aqua	84	CAPPED AND COILED
BROWN	Blue	37	CAPPED AND COILED	BLACK	Blue	85	CAPPED AND COILED
	Orange	38	CAPPED AND COILED		Orange	86	CAPPED AND COILED
	Green	39	CAPPED AND COILED		Green	87	CAPPED AND COILED
	Brown	40	CAPPED AND COILED		Brown	88	CAPPED AND COILED
	Slate	41	CAPPED AND COILED		Slate	89	CAPPED AND COILED
	White	42	CAPPED AND COILED		White	90	CAPPED AND COILED
	Red	43	CAPPED AND COILED		Red	91	CAPPED AND COILED
	Black	44	CAPPED AND COILED		Black	92	CAPPED AND COILED
	Yellow	45	CAPPED AND COILED		Yellow	93	CAPPED AND COILED
	Violet	46	CAPPED AND COILED		Violet	94	CAPPED AND COILED
	Rose	47	CAPPED AND COILED		Rose	95	CAPPED AND COILED
	Aqua	48	CAPPED AND COILED		Aqua	96	CAPPED AND COILED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUNK CABLE FIBER ASSIGNMENTS
COMM. VAULT CMV-KE-05m

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	287
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

ITS-39

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION		COMM. VAULT CMV-KE-05m	
TRUNK CABLE DESIGNATION			TCF-KE-05	DESTINATION		COMM. VAULT CMV-KE-05a	
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	CAPPED AND COILED	SLATE	Blue	49	CAPPED AND COILED
	Orange	2	CAPPED AND COILED		Orange	50	CAPPED AND COILED
	Green	3	CAPPED AND COILED		Green	51	CAPPED AND COILED
	Brown	4	CAPPED AND COILED		Brown	52	CAPPED AND COILED
	Slate	5	CAPPED AND COILED		Slate	53	CAPPED AND COILED
	White	6	CAPPED AND COILED		White	54	CAPPED AND COILED
	Red	7	CAPPED AND COILED		Red	55	CAPPED AND COILED
	Black	8	CAPPED AND COILED		Black	56	CAPPED AND COILED
	Yellow	9	CAPPED AND COILED		Yellow	57	CAPPED AND COILED
	Violet	10	CAPPED AND COILED		Violet	58	CAPPED AND COILED
	Rose	11	CAPPED AND COILED		Rose	59	CAPPED AND COILED
	Aqua	12	CAPPED AND COILED		Aqua	60	CAPPED AND COILED
ORANGE	Blue	13	CAPPED AND COILED	WHITE	Blue	61	CAPPED AND COILED
	Orange	14	CAPPED AND COILED		Orange	62	CAPPED AND COILED
	Green	15	CAPPED AND COILED		Green	63	CAPPED AND COILED
	Brown	16	CAPPED AND COILED		Brown	64	CAPPED AND COILED
	Slate	17	CAPPED AND COILED		Slate	65	CAPPED AND COILED
	White	18	CAPPED AND COILED		White	66	CAPPED AND COILED
	Red	19	CAPPED AND COILED		Red	67	CAPPED AND COILED
	Black	20	CAPPED AND COILED		Black	68	CAPPED AND COILED
	Yellow	21	CAPPED AND COILED		Yellow	69	CAPPED AND COILED
	Violet	22	CAPPED AND COILED		Violet	70	CAPPED AND COILED
	Rose	23	CAPPED AND COILED		Rose	71	CAPPED AND COILED
	Aqua	24	CAPPED AND COILED		Aqua	72	CAPPED AND COILED
GREEN	Blue	25	CAPPED AND COILED	RED	Blue	73	CAPPED AND COILED
	Orange	26	CAPPED AND COILED		Orange	74	CAPPED AND COILED
	Green	27	CAPPED AND COILED		Green	75	CAPPED AND COILED
	Brown	28	CAPPED AND COILED		Brown	76	CAPPED AND COILED
	Slate	29	CAPPED AND COILED		Slate	77	CAPPED AND COILED
	White	30	CAPPED AND COILED		White	78	CAPPED AND COILED
	Red	31	CAPPED AND COILED		Red	79	CAPPED AND COILED
	Black	32	CAPPED AND COILED		Black	80	CAPPED AND COILED
	Yellow	33	CAPPED AND COILED		Yellow	81	CAPPED AND COILED
	Violet	34	CAPPED AND COILED		Violet	82	CAPPED AND COILED
	Rose	35	CAPPED AND COILED		Rose	83	CAPPED AND COILED
	Aqua	36	CAPPED AND COILED		Aqua	84	CAPPED AND COILED
BROWN	Blue	37	CAPPED AND COILED	BLACK	Blue	85	CAPPED AND COILED
	Orange	38	CAPPED AND COILED		Orange	86	CAPPED AND COILED
	Green	39	CAPPED AND COILED		Green	87	CAPPED AND COILED
	Brown	40	CAPPED AND COILED		Brown	88	CAPPED AND COILED
	Slate	41	CAPPED AND COILED		Slate	89	CAPPED AND COILED
	White	42	CAPPED AND COILED		White	90	CAPPED AND COILED
	Red	43	CAPPED AND COILED		Red	91	CAPPED AND COILED
	Black	44	CAPPED AND COILED		Black	92	CAPPED AND COILED
	Yellow	45	CAPPED AND COILED		Yellow	93	CAPPED AND COILED
	Violet	46	CAPPED AND COILED		Violet	94	CAPPED AND COILED
	Rose	47	CAPPED AND COILED		Rose	95	CAPPED AND COILED
	Aqua	48	CAPPED AND COILED		Aqua	96	CAPPED AND COILED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUNK CABLE FIBER ASSIGNMENTS
COMM. VAULT CMV-KE-05a

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	288
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

ITS-40

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	PUMP STATION 24		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	COMM. VAULT CMV-KE-05n		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-05g, BLU/BLU 1	ORANGE	Blue	13	UNCUT, PASS THRU
	Orange	2	LCF-KE-05g, BLU/ORA 2		Orange	14	UNCUT, PASS THRU
	Green	3	LCF-KE-05g, BLU/SLA 5		Green	15	UNCUT, PASS THRU
	Brown	4	LCF-KE-05g, BLU/WHI 6		Brown	16	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	17	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	18	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	19	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	20	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	21	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	22	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	23	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	24	UNCUT, PASS THRU

DCF-KE-05b FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	FO SPLICE CABINET (DES PLAINES RIVER)		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	COMM. VAULT CMV-KE-05n		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-05g, BLU/GRE 3	ORANGE	Blue	13	UNCUT, PASS THRU
	Orange	2	LCF-KE-05g, BLU/BRO 4		Orange	14	UNCUT, PASS THRU
	Green	3	LCF-KE-05g, BLU/RED 7		Green	15	UNCUT, PASS THRU
	Brown	4	LCF-KE-05g, BLU/BLA 8		Brown	16	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	17	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	18	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	19	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	20	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	21	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	22	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	23	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	24	UNCUT, PASS THRU

DCF-KE-05b FROM THE EAST

FILE NAME = ...D:\020505-apt-tts-dts-41.dgn



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PLOT SCALE = 1.00' / 1in.	CHECKED - YJ	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
COMM. VAULT CMV-KE-05n

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	289
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-41

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	PLAZA 19			
DISTRIBUTION CABLE DESIGNATION			DCF-KE-05a	DESTINATION	FO SPLICE CABINET (DES PLAINES RIVER)			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	DCF-KE-05b, ORA/BLU 1	GREEN	Blue	1	CAPPED AND COILED	
	Orange	2	DCF-KE-05b, ORA/ORA 2		Orange	2	CAPPED AND COILED	
	Green	3	DCF-KE-05b, ORA/GRE 3		Green	3	CAPPED AND COILED	
	Brown	4	DCF-KE-05b, ORA/BRO 4		Brown	4	CAPPED AND COILED	
	Slate	5	DCF-KE-05b, ORA/SLA 5		Slate	5	CAPPED AND COILED	
	White	6	DCF-KE-05b, ORA/WHI 6		White	6	CAPPED AND COILED	
	Red	7	DCF-KE-05b, ORA/RED 7		Red	7	CAPPED AND COILED	
	Black	8	DCF-KE-05b, ORA/BLA 8		Black	8	CAPPED AND COILED	
	Yellow	9	DCF-KE-05b, ORA/YEL 9		Yellow	9	CAPPED AND COILED	
	Violet	10	DCF-KE-05b, ORA/VIO 10		Violet	10	CAPPED AND COILED	
	Rose	11	DCF-KE-05b, ORA/ROS 11		Rose	11	CAPPED AND COILED	
	Aqua	12	DCF-KE-05b, ORA/AQU 12		Aqua	12	CAPPED AND COILED	
ORANGE	Blue	1	DCF-KE-05, ORA/BLU 1	BROWN	Blue	1	CAPPED AND COILED	
	Orange	2	DCF-KE-05, ORA/ORA 2		Orange	2	CAPPED AND COILED	
	Green	3	DCF-KE-05, ORA/GRE 3		Green	3	CAPPED AND COILED	
	Brown	4	DCF-KE-05, ORA/BRO 4		Brown	4	CAPPED AND COILED	
	Slate	5	DCF-KE-05, ORA/SLA 5		Slate	5	CAPPED AND COILED	
	White	6	DCF-KE-05, ORA/WHI 6		White	6	CAPPED AND COILED	
	Red	7	DCF-KE-05, ORA/RED 7		Red	7	CAPPED AND COILED	
	Black	8	DCF-KE-05, ORA/BLA 8		Black	8	CAPPED AND COILED	
	Yellow	9	DCF-KE-05, ORA/YEL 9		Yellow	9	CAPPED AND COILED	
	Violet	10	DCF-KE-05, ORA/VIO 10		Violet	10	CAPPED AND COILED	
	Rose	11	DCF-KE-05, ORA/ROS 11		Rose	11	CAPPED AND COILED	
	Aqua	12	DCF-KE-05, ORA/AQU 12		Aqua	12	CAPPED AND COILED	

DCF-KE-05a FROM THE NORTH

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	COMM VAULT CMV-KE-05n			
DISTRIBUTION CABLE DESIGNATION			DCF-KE-05b	DESTINATION	FO SPLICE CABINET (DES PLAINES RIVER)			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	DCF-KE-05, BLU/BLU 1	ORANGE	Blue	1	DCF-KE-05a, BLU/BLU 1	
	Orange	2	DCF-KE-05, BLU/ORA 2		Orange	2	DCF-KE-05a, BLU/ORA 2	
	Green	3	DCF-KE-05, BLU/GRE 3		Green	3	DCF-KE-05a, BLU/GRE 3	
	Brown	4	DCF-KE-05, BLU/BRO 4		Brown	4	DCF-KE-05a, BLU/BRO 4	
	Slate	5	DCF-KE-05, BLU/SLA 5		Slate	5	DCF-KE-05a, BLU/SLA 5	
	White	6	DCF-KE-05, BLU/WHI 6		White	6	DCF-KE-05a, BLU/WHI 6	
	Red	7	DCF-KE-05, BLU/RED 7		Red	7	DCF-KE-05a, BLU/RED 7	
	Black	8	DCF-KE-05, BLU/BLA 8		Black	8	DCF-KE-05a, BLU/BLA 8	
	Yellow	9	DCF-KE-05, BLU/YEL 9		Yellow	9	DCF-KE-05a, BLU/YEL 9	
	Violet	10	DCF-KE-05, BLU/VIO 10		Violet	10	DCF-KE-05a, BLU/VIO 10	
	Rose	11	DCF-KE-05, BLU/ROS 11		Rose	11	DCF-KE-05a, BLU/ROS 11	
	Aqua	12	DCF-KE-05, BLU/AQU 12		Aqua	12	DCF-KE-05a, BLU/AQU 12	

DCF-KE-05b FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	COMM. VAULT CMV-KE-05f			
DISTRIBUTION CABLE DESIGNATION			DCF-KE-05	DESTINATION	FO SPLICE CABINET (DES PLAINES RIVER)			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	DCF-KE-05b, BLU/BLU 1	SLATE	Blue	1	CAPPED AND COILED	
	Orange	2	DCF-KE-05b, BLU/ORA 2		Orange	2	CAPPED AND COILED	
	Green	3	DCF-KE-05b, BLU/GRE 3		Green	3	CAPPED AND COILED	
	Brown	4	DCF-KE-05b, BLU/BRO 4		Brown	4	CAPPED AND COILED	
	Slate	5	DCF-KE-05b, BLU/SLA 5		Slate	5	CAPPED AND COILED	
	White	6	DCF-KE-05b, BLU/WHI 6		White	6	CAPPED AND COILED	
	Red	7	DCF-KE-05b, BLU/RED 7		Red	7	CAPPED AND COILED	
	Black	8	DCF-KE-05b, BLU/BLA 8		Black	8	CAPPED AND COILED	
	Yellow	9	DCF-KE-05b, BLU/YEL 9		Yellow	9	CAPPED AND COILED	
	Violet	10	DCF-KE-05b, BLU/VIO 10		Violet	10	CAPPED AND COILED	
	Rose	11	DCF-KE-05b, BLU/ROS 11		Rose	11	CAPPED AND COILED	
	Aqua	12	DCF-KE-05b, BLU/AQU 12		Aqua	12	CAPPED AND COILED	
ORANGE	Blue	1	DCF-KE-05a, ORA/BLU 1	WHITE	Blue	1	CAPPED AND COILED	
	Orange	2	DCF-KE-05a, ORA/ORA 2		Orange	2	CAPPED AND COILED	
	Green	3	DCF-KE-05a, ORA/GRE 3		Green	3	CAPPED AND COILED	
	Brown	4	DCF-KE-05a, ORA/BRO 4		Brown	4	CAPPED AND COILED	
	Slate	5	DCF-KE-05a, ORA/SLA 5		Slate	5	CAPPED AND COILED	
	White	6	DCF-KE-05a, ORA/WHI 6		White	6	CAPPED AND COILED	
	Red	7	DCF-KE-05a, ORA/RED 7		Red	7	CAPPED AND COILED	
	Black	8	DCF-KE-05a, ORA/BLA 8		Black	8	CAPPED AND COILED	
	Yellow	9	DCF-KE-05a, ORA/YEL 9		Yellow	9	CAPPED AND COILED	
	Violet	10	DCF-KE-05a, ORA/VIO 10		Violet	10	CAPPED AND COILED	
	Rose	11	DCF-KE-05a, ORA/ROS 11		Rose	11	CAPPED AND COILED	
	Aqua	12	DCF-KE-05a, ORA/AQU 12		Aqua	12	CAPPED AND COILED	
GREEN	Blue	1	CAPPED AND COILED	RED	Blue	1	CAPPED AND COILED	
	Orange	2	CAPPED AND COILED		Orange	2	CAPPED AND COILED	
	Green	3	CAPPED AND COILED		Green	3	CAPPED AND COILED	
	Brown	4	CAPPED AND COILED		Brown	4	CAPPED AND COILED	
	Slate	5	CAPPED AND COILED		Slate	5	CAPPED AND COILED	
	White	6	CAPPED AND COILED		White	6	CAPPED AND COILED	
	Red	7	CAPPED AND COILED		Red	7	CAPPED AND COILED	
	Black	8	CAPPED AND COILED		Black	8	CAPPED AND COILED	
	Yellow	9	CAPPED AND COILED		Yellow	9	CAPPED AND COILED	
	Violet	10	CAPPED AND COILED		Violet	10	CAPPED AND COILED	
	Rose	11	CAPPED AND COILED		Rose	11	CAPPED AND COILED	
	Aqua	12	CAPPED AND COILED		Aqua	12	CAPPED AND COILED	
BROWN	Blue	1	CAPPED AND COILED	BLACK	Blue	1	CAPPED AND COILED	
	Orange	2	CAPPED AND COILED		Orange	2	CAPPED AND COILED	
	Green	3	CAPPED AND COILED		Green	3	CAPPED AND COILED	
	Brown	4	CAPPED AND COILED		Brown	4	CAPPED AND COILED	
	Slate	5	CAPPED AND COILED		Slate	5	CAPPED AND COILED	
	White	6	CAPPED AND COILED		White	6	CAPPED AND COILED	
	Red	7	CAPPED AND COILED		Red	7	CAPPED AND COILED	
	Black	8	CAPPED AND COILED		Black	8	CAPPED AND COILED	
	Yellow	9	CAPPED AND COILED		Yellow	9	CAPPED AND COILED	
	Violet	10	CAPPED AND COILED		Violet	10	CAPPED AND COILED	
	Rose	11	CAPPED AND COILED		Rose	11	CAPPED AND COILED	
	Aqua	12	CAPPED AND COILED		Aqua	12	CAPPED AND COILED	

DCF-KE-05 FROM THE EAST

FILE NAME = ...D:\06055-ant-11s-ds-42.dgn



USER NAME = mikosir	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - YJ	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
FO SPLICE CABINET (DES PLAINES RIVER)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	290
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-42

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	FO SPLICE CABINET (DES PLAINES RIVER)		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	COMM. VAULT CMV-KE-05f		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	DESTINATION	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-05f, BLU/BLU 1	SLATE	Blue	49	UNCUT, PASS THRU
	Orange	2	LCF-KE-05f, BLU/ORA 2		Orange	50	UNCUT, PASS THRU
	Green	3	LCF-KE-05f, BLU/SLA 5		Green	51	UNCUT, PASS THRU
	Brown	4	LCF-KE-05f, BLU/WHI 6		Brown	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	60	UNCUT, PASS THRU
ORANGE	Blue	13	UNCUT, PASS THRU	WHITE	Blue	61	UNCUT, PASS THRU
	Orange	14	UNCUT, PASS THRU		Orange	62	UNCUT, PASS THRU
	Green	15	UNCUT, PASS THRU		Green	63	UNCUT, PASS THRU
	Brown	16	UNCUT, PASS THRU		Brown	64	UNCUT, PASS THRU
	Slate	17	UNCUT, PASS THRU		Slate	65	UNCUT, PASS THRU
	White	18	UNCUT, PASS THRU		White	66	UNCUT, PASS THRU
	Red	19	UNCUT, PASS THRU		Red	67	UNCUT, PASS THRU
	Black	20	UNCUT, PASS THRU		Black	68	UNCUT, PASS THRU
	Yellow	21	UNCUT, PASS THRU		Yellow	69	UNCUT, PASS THRU
	Violet	22	UNCUT, PASS THRU		Violet	70	UNCUT, PASS THRU
	Rose	23	UNCUT, PASS THRU		Rose	71	UNCUT, PASS THRU
	Aqua	24	UNCUT, PASS THRU		Aqua	72	UNCUT, PASS THRU
GREEN	Blue	25	UNCUT, PASS THRU	RED	Blue	73	UNCUT, PASS THRU
	Orange	26	UNCUT, PASS THRU		Orange	74	UNCUT, PASS THRU
	Green	27	UNCUT, PASS THRU		Green	75	UNCUT, PASS THRU
	Brown	28	UNCUT, PASS THRU		Brown	76	UNCUT, PASS THRU
	Slate	29	UNCUT, PASS THRU		Slate	77	UNCUT, PASS THRU
	White	30	UNCUT, PASS THRU		White	78	UNCUT, PASS THRU
	Red	31	UNCUT, PASS THRU		Red	79	UNCUT, PASS THRU
	Black	32	UNCUT, PASS THRU		Black	80	UNCUT, PASS THRU
	Yellow	33	UNCUT, PASS THRU		Yellow	81	UNCUT, PASS THRU
	Violet	34	UNCUT, PASS THRU		Violet	82	UNCUT, PASS THRU
	Rose	35	UNCUT, PASS THRU		Rose	83	UNCUT, PASS THRU
	Aqua	36	UNCUT, PASS THRU		Aqua	84	UNCUT, PASS THRU
BROWN	Blue	37	UNCUT, PASS THRU	BLACK	Blue	85	UNCUT, PASS THRU
	Orange	38	UNCUT, PASS THRU		Orange	86	UNCUT, PASS THRU
	Green	39	UNCUT, PASS THRU		Green	87	UNCUT, PASS THRU
	Brown	40	UNCUT, PASS THRU		Brown	88	UNCUT, PASS THRU
	Slate	41	UNCUT, PASS THRU		Slate	89	UNCUT, PASS THRU
	White	42	UNCUT, PASS THRU		White	90	UNCUT, PASS THRU
	Red	43	UNCUT, PASS THRU		Red	91	UNCUT, PASS THRU
	Black	44	UNCUT, PASS THRU		Black	92	UNCUT, PASS THRU
	Yellow	45	UNCUT, PASS THRU		Yellow	93	UNCUT, PASS THRU
	Violet	46	UNCUT, PASS THRU		Violet	94	UNCUT, PASS THRU
	Rose	47	UNCUT, PASS THRU		Rose	95	UNCUT, PASS THRU
	Aqua	48	UNCUT, PASS THRU		Aqua	96	UNCUT, PASS THRU

DCF-KE-05 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	COMM. VAULT CMV-KE-05e		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	COMM. VAULT CMV-KE-05f		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	DESTINATION	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-05f, BLU/GRE 3	SLATE	Blue	49	UNCUT, PASS THRU
	Orange	2	LCF-KE-05f, BLU/BRO 4		Orange	50	UNCUT, PASS THRU
	Green	3	LCF-KE-05f, BLU/RED 7		Green	51	UNCUT, PASS THRU
	Brown	4	LCF-KE-05f, BLU/BLA 8		Brown	52	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	53	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	54	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	55	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	56	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	57	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	58	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	59	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	60	UNCUT, PASS THRU
ORANGE	Blue	13	UNCUT, PASS THRU	WHITE	Blue	61	UNCUT, PASS THRU
	Orange	14	UNCUT, PASS THRU		Orange	62	UNCUT, PASS THRU
	Green	15	UNCUT, PASS THRU		Green	63	UNCUT, PASS THRU
	Brown	16	UNCUT, PASS THRU		Brown	64	UNCUT, PASS THRU
	Slate	17	UNCUT, PASS THRU		Slate	65	UNCUT, PASS THRU
	White	18	UNCUT, PASS THRU		White	66	UNCUT, PASS THRU
	Red	19	UNCUT, PASS THRU		Red	67	UNCUT, PASS THRU
	Black	20	UNCUT, PASS THRU		Black	68	UNCUT, PASS THRU
	Yellow	21	UNCUT, PASS THRU		Yellow	69	UNCUT, PASS THRU
	Violet	22	UNCUT, PASS THRU		Violet	70	UNCUT, PASS THRU
	Rose	23	UNCUT, PASS THRU		Rose	71	UNCUT, PASS THRU
	Aqua	24	UNCUT, PASS THRU		Aqua	72	UNCUT, PASS THRU
GREEN	Blue	25	UNCUT, PASS THRU	RED	Blue	73	UNCUT, PASS THRU
	Orange	26	UNCUT, PASS THRU		Orange	74	UNCUT, PASS THRU
	Green	27	UNCUT, PASS THRU		Green	75	UNCUT, PASS THRU
	Brown	28	UNCUT, PASS THRU		Brown	76	UNCUT, PASS THRU
	Slate	29	UNCUT, PASS THRU		Slate	77	UNCUT, PASS THRU
	White	30	UNCUT, PASS THRU		White	78	UNCUT, PASS THRU
	Red	31	UNCUT, PASS THRU		Red	79	UNCUT, PASS THRU
	Black	32	UNCUT, PASS THRU		Black	80	UNCUT, PASS THRU
	Yellow	33	UNCUT, PASS THRU		Yellow	81	UNCUT, PASS THRU
	Violet	34	UNCUT, PASS THRU		Violet	82	UNCUT, PASS THRU
	Rose	35	UNCUT, PASS THRU		Rose	83	UNCUT, PASS THRU
	Aqua	36	UNCUT, PASS THRU		Aqua	84	UNCUT, PASS THRU
BROWN	Blue	37	UNCUT, PASS THRU	BLACK	Blue	85	UNCUT, PASS THRU
	Orange	38	UNCUT, PASS THRU		Orange	86	UNCUT, PASS THRU
	Green	39	UNCUT, PASS THRU		Green	87	UNCUT, PASS THRU
	Brown	40	UNCUT, PASS THRU		Brown	88	UNCUT, PASS THRU
	Slate	41	UNCUT, PASS THRU		Slate	89	UNCUT, PASS THRU
	White	42	UNCUT, PASS THRU		White	90	UNCUT, PASS THRU
	Red	43	UNCUT, PASS THRU		Red	91	UNCUT, PASS THRU
	Black	44	UNCUT, PASS THRU		Black	92	UNCUT, PASS THRU
	Yellow	45	UNCUT, PASS THRU		Yellow	93	UNCUT, PASS THRU
	Violet	46	UNCUT, PASS THRU		Violet	94	UNCUT, PASS THRU
	Rose	47	UNCUT, PASS THRU		Rose	95	UNCUT, PASS THRU
	Aqua	48	UNCUT, PASS THRU		Aqua	96	UNCUT, PASS THRU

DCF-KE-05 FROM THE EAST

FILE NAME = ...D:\020505-apt-11s-ds-43.dgn



USER NAME = mikosir	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - YJ	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
COMM. VAULT CMV-KE-05f

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	291
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-43

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	COMM. VAULT CMV-KE-05f			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	COMM. VAULT CMV-KE-05e			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	UNCUT, PASS THRU	
	Orange	2	SPLICE THRU		Orange	2	UNCUT, PASS THRU	
	Green	3	SPLICE THRU		Green	3	UNCUT, PASS THRU	
	Brown	4	SPLICE THRU		Brown	4	UNCUT, PASS THRU	
	Slate	5	LCF-KE-05e, BLU/BLU 1		Slate	5	UNCUT, PASS THRU	
	White	6	LCF-KE-05e, BLU/ORA 2		White	6	UNCUT, PASS THRU	
	Red	7	LCF-KE-05e, BLU/SLA 5		Red	7	UNCUT, PASS THRU	
	Black	8	LCF-KE-05e, BLU/WHI 6		Black	8	UNCUT, PASS THRU	
	Yellow	9	SPLICE THRU		Yellow	9	UNCUT, PASS THRU	
	Violet	10	SPLICE THRU		Violet	10	UNCUT, PASS THRU	
	Rose	11	SPLICE THRU		Rose	11	UNCUT, PASS THRU	
	Aqua	12	SPLICE THRU		Aqua	12	UNCUT, PASS THRU	
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU	
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU	
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU	
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU	
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU	
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU	
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU	
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU	
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU	
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU	
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU	
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU	
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU	
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU	
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU	
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU	
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU	
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU	
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU	
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU	
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU	
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU	
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU	
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU	
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU	
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU	
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU	
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU	
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU	
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU	
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU	
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU	
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU	

DCF-KE-05 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORINATION	COMM. VAULT CMV-KE-05d			
DISTRIBUTION CABLE DESIGNATION				DESTINATION	COMM. VAULT CMV-KE-05e			
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	
BLUE	Blue	1	SPLICE THRU	SLATE	Blue	1	UNCUT, PASS THRU	
	Orange	2	SPLICE THRU		Orange	2	UNCUT, PASS THRU	
	Green	3	SPLICE THRU		Green	3	UNCUT, PASS THRU	
	Brown	4	SPLICE THRU		Brown	4	UNCUT, PASS THRU	
	Slate	5	LCF-KE-05e, BLU/GRE 3		Slate	5	UNCUT, PASS THRU	
	White	6	LCF-KE-05e, BLU/BRO 4		White	6	UNCUT, PASS THRU	
	Red	7	LCF-KE-05e, BLU/RED 7		Red	7	UNCUT, PASS THRU	
	Black	8	LCF-KE-05e, BLU/BLA 8		Black	8	UNCUT, PASS THRU	
	Yellow	9	SPLICE THRU		Yellow	9	UNCUT, PASS THRU	
	Violet	10	SPLICE THRU		Violet	10	UNCUT, PASS THRU	
	Rose	11	SPLICE THRU		Rose	11	UNCUT, PASS THRU	
	Aqua	12	SPLICE THRU		Aqua	12	UNCUT, PASS THRU	
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU	
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU	
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU	
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU	
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU	
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU	
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU	
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU	
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU	
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU	
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU	
GREEN	Blue	1	UNCUT, PASS THRU	RED	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU	
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU	
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU	
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU	
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU	
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU	
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU	
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU	
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU	
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU	
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU	
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU	
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU	
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU	
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU	
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU	
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU	
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU	
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU	
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU	
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU	
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU	
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU	

DCF-KE-05 FROM THE EAST

FILE NAME = ...D:\020505-apt-11s-ds-44.dgn



USER NAME = mkosir	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1/80' / 1in.	CHECKED - YJ	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
COMM. VAULT CMV-KE-05e

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	292
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-44

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	COMM. VAULT CMV-KE-05e		
DISTRIBUTION CABLE DESIGNATION		DCF-KE-05		DESTINATION	COMM. VAULT CMV-KE-05d		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-05c, BLU/BLU 1	SLATE	Blue	1	UNCUT, PASS THRU
	Orange	2	LCF-KE-05c, BLU/ORA 2		Orange	2	UNCUT, PASS THRU
	Green	3	LCF-KE-05c, BLU/SLA 5		Green	3	UNCUT, PASS THRU
	Brown	4	LCF-KE-05c, BLU/WHI 6		Brown	4	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU
GREEN	Blue	1	LCF-KE-05d, BLU/BLU 1	RED	Blue	1	UNCUT, PASS THRU
	Orange	2	LCF-KE-05d, BLU/ORA 2		Orange	2	UNCUT, PASS THRU
	Green	3	LCF-KE-05d, BLU/SLA 5		Green	3	UNCUT, PASS THRU
	Brown	4	LCF-KE-05d, BLU/WHI 6		Brown	4	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU

DCF-KE-05 FROM THE WEST

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	COMM. VAULT CMV-KE-05a		
DISTRIBUTION CABLE DESIGNATION		DCF-KE-05		DESTINATION	COMM. VAULT CMV-KE-05d		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-05c, BLU/GRE 3	SLATE	Blue	1	UNCUT, PASS THRU
	Orange	2	LCF-KE-05c, BLU/BRO 4		Orange	2	UNCUT, PASS THRU
	Green	3	LCF-KE-05c, BLU/RED 7		Green	3	UNCUT, PASS THRU
	Brown	4	LCF-KE-05c, BLU/BLA 8		Brown	4	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	UNCUT, PASS THRU
ORANGE	Blue	1	UNCUT, PASS THRU	WHITE	Blue	1	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU
GREEN	Blue	1	LCF-KE-05d, BLU/GRE 3	RED	Blue	1	UNCUT, PASS THRU
	Orange	2	LCF-KE-05d, BLU/BRO 4		Orange	2	UNCUT, PASS THRU
	Green	3	LCF-KE-05d, BLU/RED 7		Green	3	UNCUT, PASS THRU
	Brown	4	LCF-KE-05d, BLU/BLA 8		Brown	4	UNCUT, PASS THRU
	Slate	5	SPLICE THRU		Slate	5	UNCUT, PASS THRU
	White	6	SPLICE THRU		White	6	UNCUT, PASS THRU
	Red	7	SPLICE THRU		Red	7	UNCUT, PASS THRU
	Black	8	SPLICE THRU		Black	8	UNCUT, PASS THRU
	Yellow	9	SPLICE THRU		Yellow	9	UNCUT, PASS THRU
	Violet	10	SPLICE THRU		Violet	10	UNCUT, PASS THRU
	Rose	11	SPLICE THRU		Rose	11	UNCUT, PASS THRU
	Aqua	12	SPLICE THRU		Aqua	12	UNCUT, PASS THRU
BROWN	Blue	1	UNCUT, PASS THRU	BLACK	Blue	1	UNCUT, PASS THRU
	Orange	2	UNCUT, PASS THRU		Orange	2	UNCUT, PASS THRU
	Green	3	UNCUT, PASS THRU		Green	3	UNCUT, PASS THRU
	Brown	4	UNCUT, PASS THRU		Brown	4	UNCUT, PASS THRU
	Slate	5	UNCUT, PASS THRU		Slate	5	UNCUT, PASS THRU
	White	6	UNCUT, PASS THRU		White	6	UNCUT, PASS THRU
	Red	7	UNCUT, PASS THRU		Red	7	UNCUT, PASS THRU
	Black	8	UNCUT, PASS THRU		Black	8	UNCUT, PASS THRU
	Yellow	9	UNCUT, PASS THRU		Yellow	9	UNCUT, PASS THRU
	Violet	10	UNCUT, PASS THRU		Violet	10	UNCUT, PASS THRU
	Rose	11	UNCUT, PASS THRU		Rose	11	UNCUT, PASS THRU
	Aqua	12	UNCUT, PASS THRU		Aqua	12	UNCUT, PASS THRU

DCF-KE-05 FROM THE EAST

FILE NAME = ...01020505-ant-11s-ds-45.dgn



USER NAME = mikosir	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - YJ	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
COMM. VAULT CMV-KE-05d

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	293
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-45

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	COMM. VAULT CMV-KE-05d		
DISTRIBUTION CABLE DESIGNATION				DESTINATION	COMM. VAULT CMV-KE-05a		
BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT	BUFFER TUBE	FIBER	FIBER NO.	ASSIGNMENT
BLUE	Blue	1	LCF-KE-05b, BLU/BLU 1	SLATE	Blue	49	CAPPED AND COILED
	Orange	2	LCF-KE-05b, BLU/ORA 2		Orange	50	CAPPED AND COILED
	Green	3	LCF-KE-05b, BLU/SLA 5		Green	51	CAPPED AND COILED
	Brown	4	LCF-KE-05b, BLU/WHI 6		Brown	52	CAPPED AND COILED
	Slate	5	CAPPED AND COILED		Slate	53	CAPPED AND COILED
	White	6	CAPPED AND COILED		White	54	CAPPED AND COILED
	Red	7	CAPPED AND COILED		Red	55	CAPPED AND COILED
	Black	8	CAPPED AND COILED		Black	56	CAPPED AND COILED
	Yellow	9	CAPPED AND COILED		Yellow	57	CAPPED AND COILED
	Violet	10	CAPPED AND COILED		Violet	58	CAPPED AND COILED
	Rose	11	CAPPED AND COILED		Rose	59	CAPPED AND COILED
	Aqua	12	CAPPED AND COILED		Aqua	60	CAPPED AND COILED
ORANGE	Blue	13	CAPPED AND COILED	WHITE	Blue	61	CAPPED AND COILED
	Orange	14	CAPPED AND COILED		Orange	62	CAPPED AND COILED
	Green	15	CAPPED AND COILED		Green	63	CAPPED AND COILED
	Brown	16	CAPPED AND COILED		Brown	64	CAPPED AND COILED
	Slate	17	CAPPED AND COILED		Slate	65	CAPPED AND COILED
	White	18	CAPPED AND COILED		White	66	CAPPED AND COILED
	Red	19	CAPPED AND COILED		Red	67	CAPPED AND COILED
	Black	20	CAPPED AND COILED		Black	68	CAPPED AND COILED
	Yellow	21	CAPPED AND COILED		Yellow	69	CAPPED AND COILED
	Violet	22	CAPPED AND COILED		Violet	70	CAPPED AND COILED
	Rose	23	CAPPED AND COILED		Rose	71	CAPPED AND COILED
	Aqua	24	CAPPED AND COILED		Aqua	72	CAPPED AND COILED
GREEN	Blue	25	CAPPED AND COILED	RED	Blue	73	CAPPED AND COILED
	Orange	26	CAPPED AND COILED		Orange	74	CAPPED AND COILED
	Green	27	CAPPED AND COILED		Green	75	CAPPED AND COILED
	Brown	28	CAPPED AND COILED		Brown	76	CAPPED AND COILED
	Slate	29	CAPPED AND COILED		Slate	77	CAPPED AND COILED
	White	30	CAPPED AND COILED		White	78	CAPPED AND COILED
	Red	31	CAPPED AND COILED		Red	79	CAPPED AND COILED
	Black	32	CAPPED AND COILED		Black	80	CAPPED AND COILED
	Yellow	33	CAPPED AND COILED		Yellow	81	CAPPED AND COILED
	Violet	34	CAPPED AND COILED		Violet	82	CAPPED AND COILED
	Rose	35	CAPPED AND COILED		Rose	83	CAPPED AND COILED
	Aqua	36	CAPPED AND COILED		Aqua	84	CAPPED AND COILED
BROWN	Blue	37	CAPPED AND COILED	BLACK	Blue	85	CAPPED AND COILED
	Orange	38	CAPPED AND COILED		Orange	86	CAPPED AND COILED
	Green	39	CAPPED AND COILED		Green	87	CAPPED AND COILED
	Brown	40	CAPPED AND COILED		Brown	88	CAPPED AND COILED
	Slate	41	CAPPED AND COILED		Slate	89	CAPPED AND COILED
	White	42	CAPPED AND COILED		White	90	CAPPED AND COILED
	Red	43	CAPPED AND COILED		Red	91	CAPPED AND COILED
	Black	44	CAPPED AND COILED		Black	92	CAPPED AND COILED
	Yellow	45	CAPPED AND COILED		Yellow	93	CAPPED AND COILED
	Violet	46	CAPPED AND COILED		Violet	94	CAPPED AND COILED
	Rose	47	CAPPED AND COILED		Rose	95	CAPPED AND COILED
	Aqua	48	CAPPED AND COILED		Aqua	96	CAPPED AND COILED

DCF-KE-05 FROM THE WEST

FILE NAME = ...D:\020555-ant-11s-ds-46.dgn



USER NAME = mkosir	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - YJ	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIBUTION CABLE FIBER ASSIGNMENTS
COMM. VAULT CMV-KE-05a

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	294
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X56	

ITS-46

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-05g (FROM CABINET KE14B)		
FIBER NO.	FUNCTION	CONNECTION
1	ETHERNET SWITCH (KE14B)	DCF-KE-05b, BLU/BLU 1 WEST
2	ETHERNET SWITCH (KE14B)	DCF-KE-05b, BLU/ORA 2 WEST
3	ETHERNET SWITCH (KE14B)	DCF-KE-05b, BLU/BLU 1 EAST
4	ETHERNET SWITCH (KE14B)	DCF-KE-05b, BLU/ORA 2 EAST
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05b, BLU/GRE 3 WEST
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05b, BLU/BRO 4 WEST
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05b, BLU/GRE 3 EAST
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05b, BLU/BRO 4 EAST
9	TERMINATED ON PATCH PANEL	CAPPED AND COILED
10	TERMINATED ON PATCH PANEL	CAPPED AND COILED
11	TERMINATED ON PATCH PANEL	CAPPED AND COILED
12	TERMINATED ON PATCH PANEL	CAPPED AND COILED

TO COMM. VAULT CMV-KE-05n

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-05f (FROM CABINET KE14)		
FIBER NO.	FUNCTION	CONNECTION
1	ETHERNET SWITCH (KE14)	DCF-KE-05, BLU/BLU 1 WEST
2	ETHERNET SWITCH (KE14)	DCF-KE-05, BLU/ORA 2 WEST
3	ETHERNET SWITCH (KE14)	DCF-KE-05, BLU/BLU 1 EAST
4	ETHERNET SWITCH (KE14)	DCF-KE-05, BLU/ORA 2 EAST
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, BLU/GRE 3 WEST
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, BLU/BRO 4 WEST
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, BLU/GRE 3 EAST
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, BLU/BRO 4 EAST
9	TERMINATED ON PATCH PANEL	CAPPED AND COILED
10	TERMINATED ON PATCH PANEL	CAPPED AND COILED
11	TERMINATED ON PATCH PANEL	CAPPED AND COILED
12	TERMINATED ON PATCH PANEL	CAPPED AND COILED

TO COMM. VAULT CMV-KE-05f

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-05e (FROM CABINET D124)		
FIBER NO.	FUNCTION	CONNECTION
1	FUTURE ETHERNET SWITCH (D124)	DCF-KE-05, BLU/SLA 5 WEST
2	FUTURE ETHERNET SWITCH (D124)	DCF-KE-05, BLU/WHI 6 WEST
3	FUTURE ETHERNET SWITCH (D124)	DCF-KE-05, BLU/SLA 5 EAST
4	FUTURE ETHERNET SWITCH (D124)	DCF-KE-05, BLU/WHI 6 EAST
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, BLU/RED 7 WEST
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, BLU/BLA 8 WEST
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, BLU/RED 7 EAST
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, BLU/BLA 8 EAST
9	TERMINATED ON PATCH PANEL	CAPPED AND COILED
10	TERMINATED ON PATCH PANEL	CAPPED AND COILED
11	TERMINATED ON PATCH PANEL	CAPPED AND COILED
12	TERMINATED ON PATCH PANEL	CAPPED AND COILED

TO COMM. VAULT CMV-KE-05e

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-05c (FROM CABINET KE13A)		
FIBER NO.	FUNCTION	CONNECTION
1	ETHERNET SWITCH (KE13A)	DCF-KE-05b, BLU/BLU 1 WEST
2	ETHERNET SWITCH (KE13A)	DCF-KE-05b, BLU/ORA 2 WEST
3	ETHERNET SWITCH (KE13A)	DCF-KE-05b, BLU/BLU 1 EAST
4	ETHERNET SWITCH (KE13A)	DCF-KE-05b, BLU/ORA 2 EAST
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05b, BLU/GRE 3 WEST
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05b, BLU/BRO 4 WEST
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05b, BLU/GRE 3 EAST
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05b, BLU/BRO 4 EAST
9	TERMINATED ON PATCH PANEL	CAPPED AND COILED
10	TERMINATED ON PATCH PANEL	CAPPED AND COILED
11	TERMINATED ON PATCH PANEL	CAPPED AND COILED
12	TERMINATED ON PATCH PANEL	CAPPED AND COILED

TO COMM. VAULT CMV-KE-05d

FILE NAME = ...D:\020505-ant-t-11s-ds-47.dgn



USER NAME = jblakley	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - YJ	REVISED -
PLOT DATE = 5/3/2016	DATE - 05/06/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	295
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

ITS-47

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-05d (FROM EAST RIVER ROAD LIGHTING CONTROLLER)		
FIBER NO.	FUNCTION	CONNECTION
1	FUTURE CONNECTION TO LIGHTING CONTROLLER	DCF-KE-05, GRE/BLU 1 WEST
2	FUTURE CONNECTION TO LIGHTING CONTROLLER	DCF-KE-05, GRE/ORA 2 WEST
3	FUTURE CONNECTION TO LIGHTING CONTROLLER	DCF-KE-05, GRE/BLU 1 EAST
4	FUTURE CONNECTION TO LIGHTING CONTROLLER	DCF-KE-05, GRE/ORA 2 EAST
5	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, GRE/GRE 3 WEST
6	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, GRE/BRO 4 WEST
7	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, GRE/GRE 3 EAST
8	SPARE TO FIBER OPTIC SPLICE CLOSURE	DCF-KE-05, GRE/BRO 4 EAST
9	TERMINATED ON PATCH PANEL	CAPPED AND COILED
10	TERMINATED ON PATCH PANEL	CAPPED AND COILED
11	TERMINATED ON PATCH PANEL	CAPPED AND COILED
12	TERMINATED ON PATCH PANEL	CAPPED AND COILED

TO COMM. VAULT CMV-KE-05d

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-05b (FROM CABINET KE13)		
FIBER NO.	FUNCTION	CONNECTION
1	ETHERNET SWITCH (KE13)	DCF-KE-05, BLU/BLU 1 WEST
2	ETHERNET SWITCH (KE13)	DCF-KE-05, BLU/ORA 2 WEST
3	TERMINATED ON PATCH PANEL	CAPPED AND COILED
4	TERMINATED ON PATCH PANEL	CAPPED AND COILED
5	TERMINATED ON PATCH PANEL	CAPPED AND COILED
6	TERMINATED ON PATCH PANEL	CAPPED AND COILED
7	TERMINATED ON PATCH PANEL	CAPPED AND COILED
8	TERMINATED ON PATCH PANEL	CAPPED AND COILED
9	TERMINATED ON PATCH PANEL	CAPPED AND COILED
10	TERMINATED ON PATCH PANEL	CAPPED AND COILED
11	TERMINATED ON PATCH PANEL	CAPPED AND COILED
12	TERMINATED ON PATCH PANEL	CAPPED AND COILED

TO COMM. VAULT CMV-KE-05a

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-KE-05a (FROM CABINET E122)		
FIBER NO.	FUNCTION	CONNECTION
1	FUTURE ETHERNET SWITCH (E122)	DCF-KE-05, BLU/SLA WEST
2	FUTURE ETHERNET SWITCH (E122)	DCF-KE-05, BLU/WHI WEST
3	FUTURE ETHERNET SWITCH (E122)	CAPPED AND COILED
4	FUTURE ETHERNET SWITCH (E122)	CAPPED AND COILED
5	TERMINATED ON PATCH PANEL	CAPPED AND COILED
6	TERMINATED ON PATCH PANEL	CAPPED AND COILED
7	TERMINATED ON PATCH PANEL	CAPPED AND COILED
8	TERMINATED ON PATCH PANEL	CAPPED AND COILED
9	TERMINATED ON PATCH PANEL	CAPPED AND COILED
10	TERMINATED ON PATCH PANEL	CAPPED AND COILED
11	TERMINATED ON PATCH PANEL	CAPPED AND COILED
12	TERMINATED ON PATCH PANEL	CAPPED AND COILED

TO COMM. VAULT CMV-KE-05a

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USER NAME = mkosir	DESIGNED - JZ	REVISED -
	DRAWN - JZ	REVISED -
PLOT SCALE = 1.00' / 1in.	CHECKED - YJ	REVISED -
PLOT DATE = 4/27/2016	DATE - 05/06/2016	REVISED -

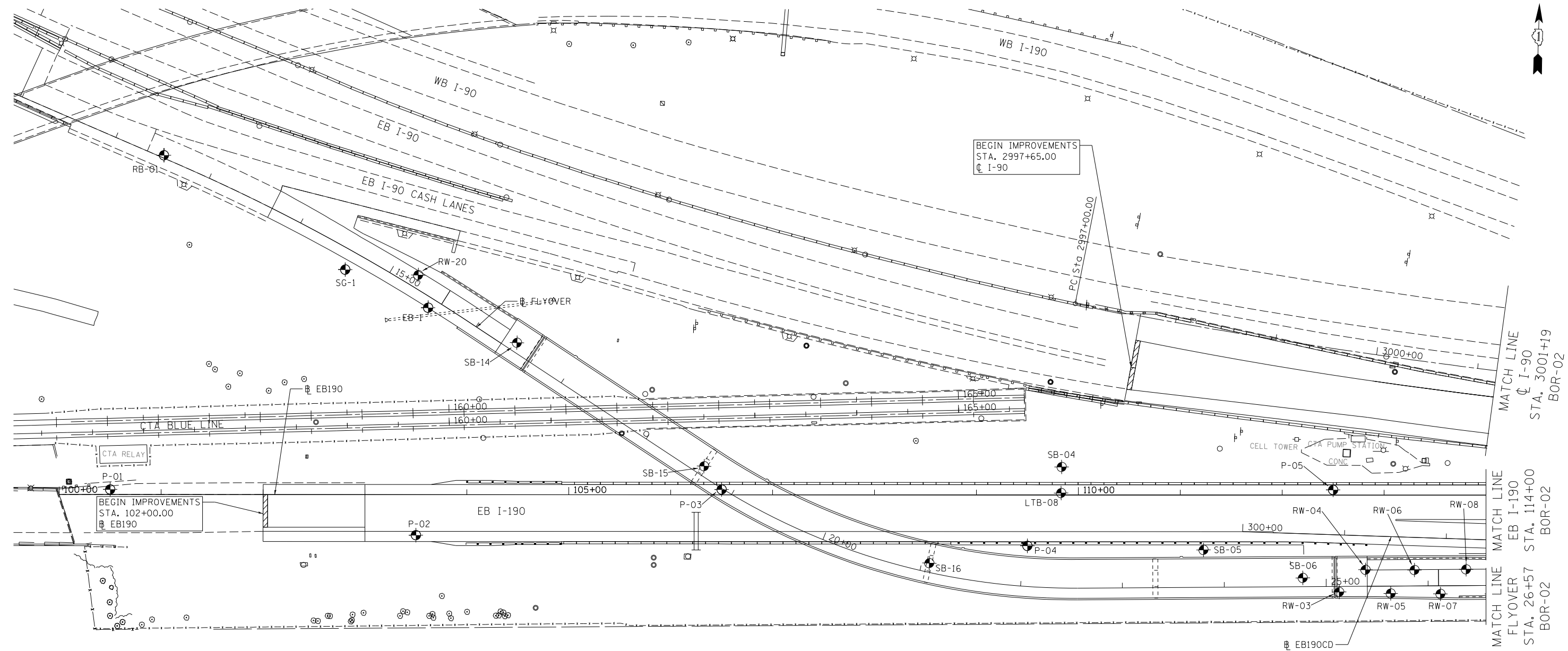
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	296
			CONTRACT NO. 60X56	
ILLINOIS FED. AID PROJECT				

ITS-48

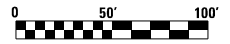


NOTES:

- 1. FOR RETAINING WALL BORINGS, SEE RETAINING WALL STRUCTURE PLANS.
- 2. FOR FLYOVER STRUCTURE BORINGS, SEE CUMBERLAND FLYOVER STRUCTURE PLANS.

LEGEND

- RW RETAINING WALL BORING
- SG SIGN BORING
- RB ROADWAY BORING
- EB EMBANKMENT BORING
- SB STRUCTURE BORING
- P PAVEMENT CORE
- LTB LIGHT TOWER BORING



FILE NAME = ...D:\2016\2016-ant-bor-plan-01.dgn



USER NAME = mkosir	DESIGNED - RWC	REVISED -
	DRAWN - RWC	REVISED -
PLOT SCALE = 1:8000 @ 11"	CHECKED - DOB	REVISED -
PLOT DATE = 4/4/2016	DATE - 05/06/2016	REVISED -

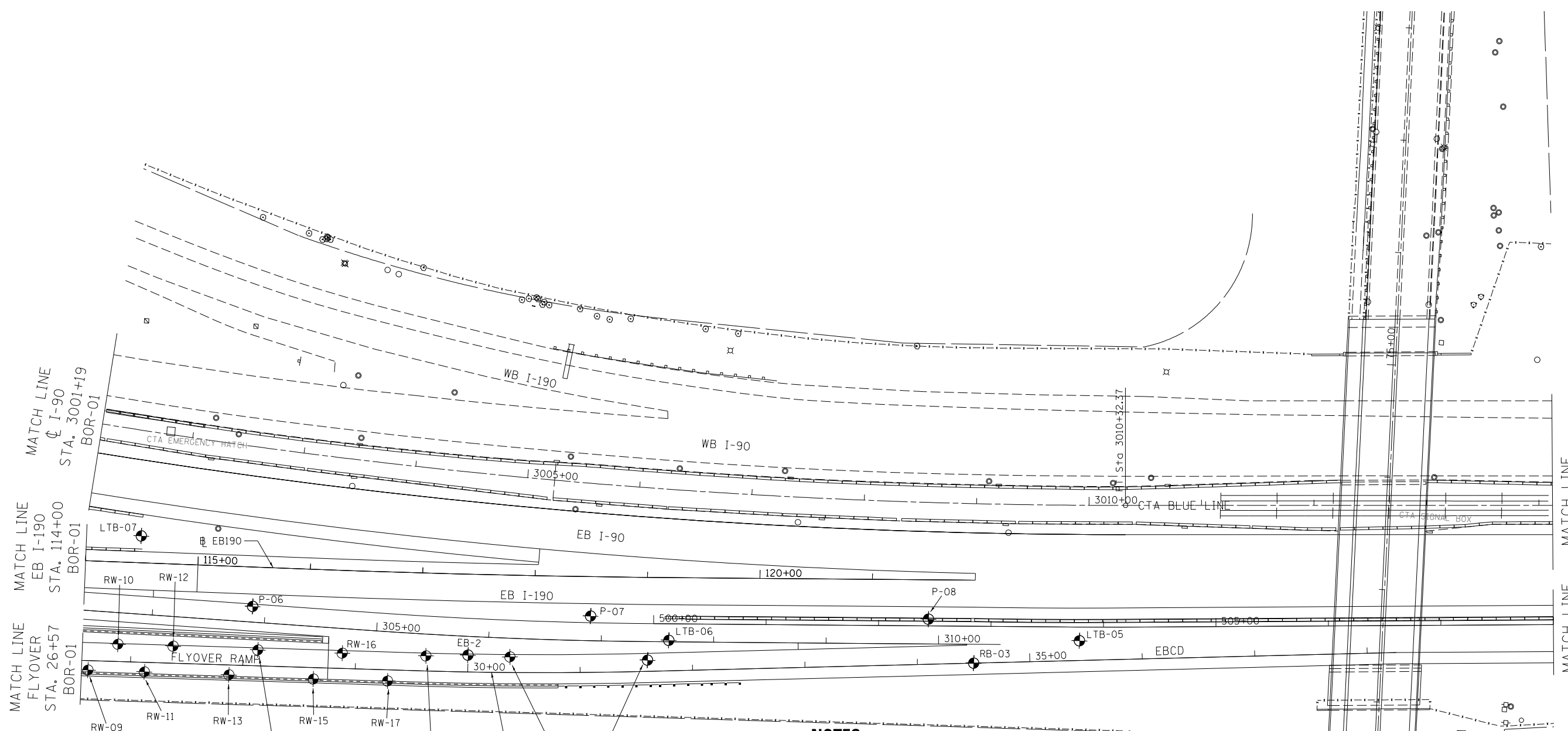
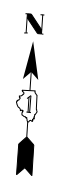
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LAYOUT PLAN

SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	297
CONTRACT NO. 60X56				
ILLINOIS FED. AID PROJECT				

BOR-01

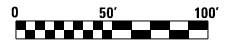


NOTES:

1. FOR RETAINING WALL BORINGS, SEE RETAINING WALL STRUCTURE PLANS.
2. FOR FLYOVER STRUCTURE BORINGS, SEE CUMBERLAND FLYOVER STRUCTURE PLANS.

LEGEND

- RW RETAINING WALL BORING
- SG SIGN BORING
- RB ROADWAY BORING
- EB EMBANKMENT BORING
- SB STRUCTURE BORING
- P PAVEMENT CORE
- LTB LIGHT TOWER BORING



FILE NAME: ...D:\2016\2016-2017\bor-plan-02.dgn



USER NAME = mkosir	DESIGNED - RWC	REVISED -
PLOT SCALE = 1:8000 / 1"	DRAWN - RWC	REVISED -
PLOT DATE = 4/4/2016	CHECKED - DOB	REVISED -
	DATE - 05/06/2016	REVISED -

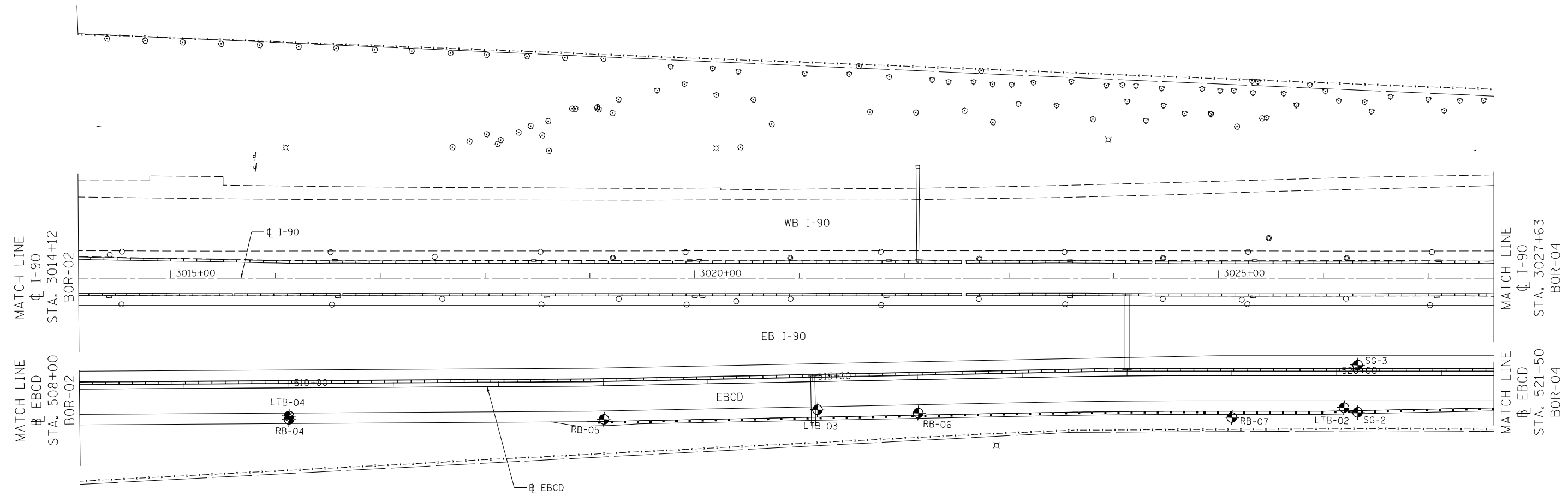
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LAYOUT PLAN

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	298
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

BOR-02



LEGEND

- RW RETAINING WALL BORING
- SG SIGN BORING
- RB ROADWAY BORING
- EB EMBANKMENT BORING
- SB STRUCTURE BORING
- P PAVEMENT CORE
- LTB LIGHT TOWER BORING



FILE NAME = ...D:\2016\58-ant-bor-plan-03.dgn



USER NAME = mkosir	DESIGNED - RWC	REVISED -
	DRAWN - RWC	REVISED -
PLOT SCALE = 1.0000' / 1" =	CHECKED - DOB	REVISED -
PLOT DATE = 4/4/2016	DATE - 05/06/2016	REVISED -

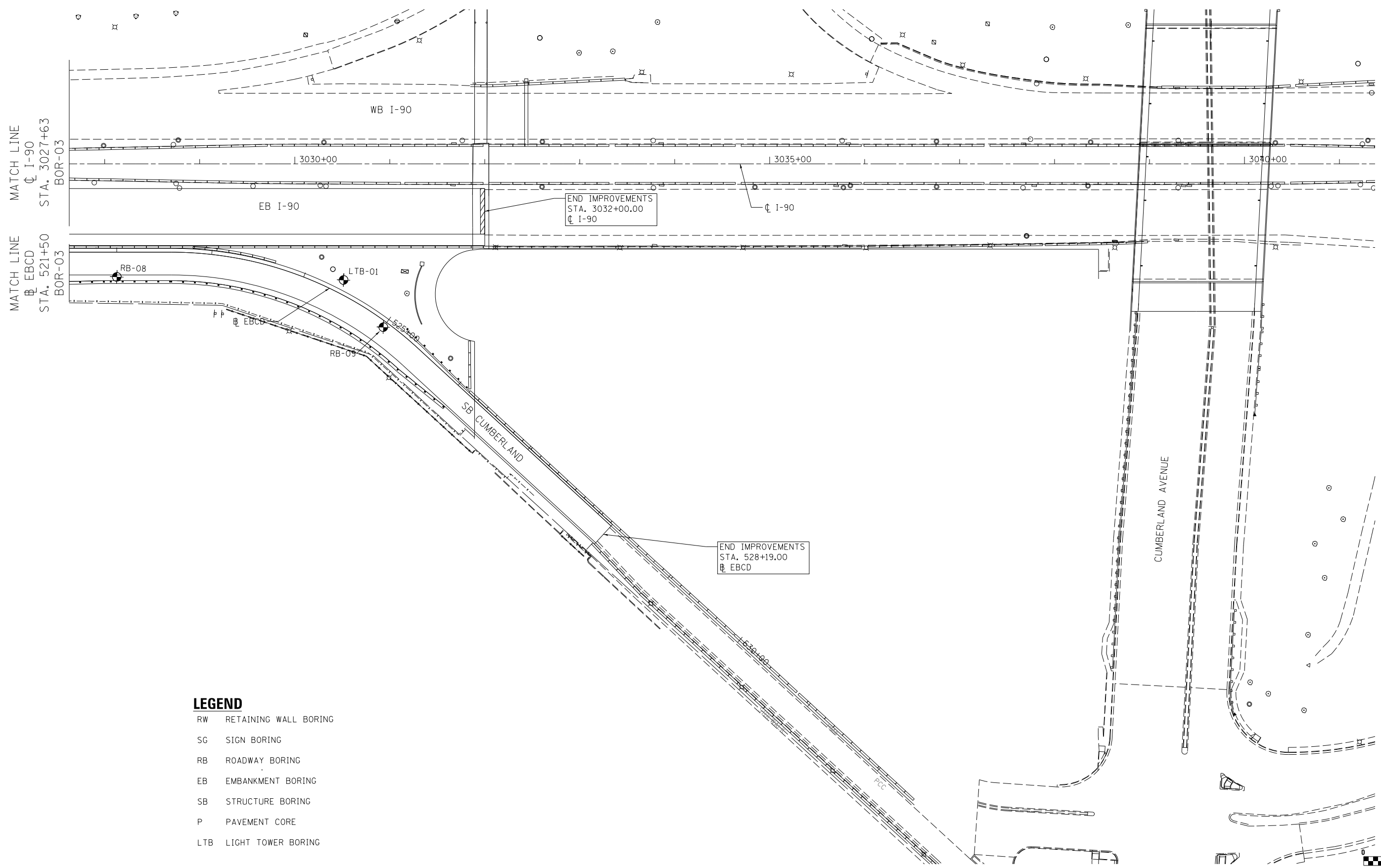
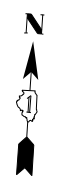
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LAYOUT PLAN

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	299
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

BOR-03



LEGEND

- RW RETAINING WALL BORING
- SG SIGN BORING
- RB ROADWAY BORING
- EB EMBANKMENT BORING
- SB STRUCTURE BORING
- P PAVEMENT CORE
- LTB LIGHT TOWER BORING

FILE NAME: ...D:\2016\25-ant-bor-plan-04.dgn



USER NAME = mkosir	DESIGNED - RWC	REVISED -
	DRAWN - RWC	REVISED -
PLOT SCALE = 1:8000' / 1"	CHECKED - DOB	REVISED -
PLOT DATE = 4/4/2016	DATE - 05/06/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LAYOUT PLAN			
SCALE: 1" = 50'	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	1517R-1(13)	COOK	580	300
CONTRACT NO. 60X56			ILLINOIS FED. AID PROJECT	

BOR-04