

IMPROVEMENTS LOCATED IN THE VILLAGES OF TINLEY PARK AND COUNTRY CLUB HILLS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

F.A.I. 80 (MOLINE EXPRESSWAY) I-80  
80TH AVENUE TO INTERSTATE 57  
SECTION 2012-0711  
PROJECT : ESP-080-5(071)149  
FIBER OPTIC CABLE INSTALLATION  
WILL AND COOK COUNTY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	1
		ILLINOIS	CONTRACT NO. 60V81	

D-91-080-13



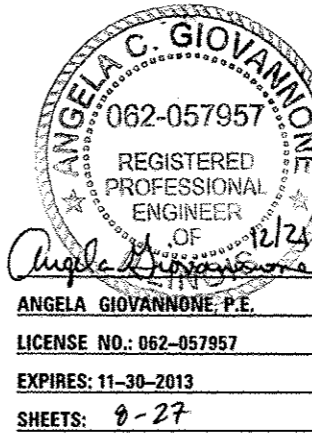
BEGIN IMPROVEMENT  
STA 10+00

END IMPROVEMENT  
STA 263+00



*Isaac Yun* 12/21/2012  
ISAAC YUN, P.E.  
LICENSE NO.: 082-062257  
EXPIRES: 11-30-2013  
SHEETS: 1-7

FUNCTIONAL CLASSIFICATION  
INTERSTATE (URBAN)  
2012 ADT = 122,700



*Angela C. Giovannone* 12/21/2012  
ANGELA GIOVANNONE, P.E.  
LICENSE NO.: 062-057957  
EXPIRES: 11-30-2013  
SHEETS: 8-27

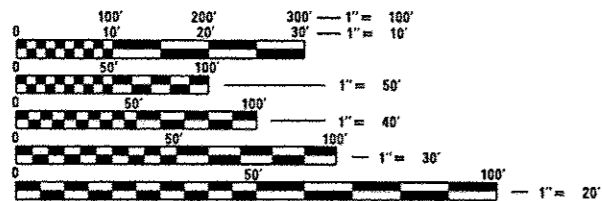
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 19 Dec 20 12

*John D. Tomson* 12/19/12  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

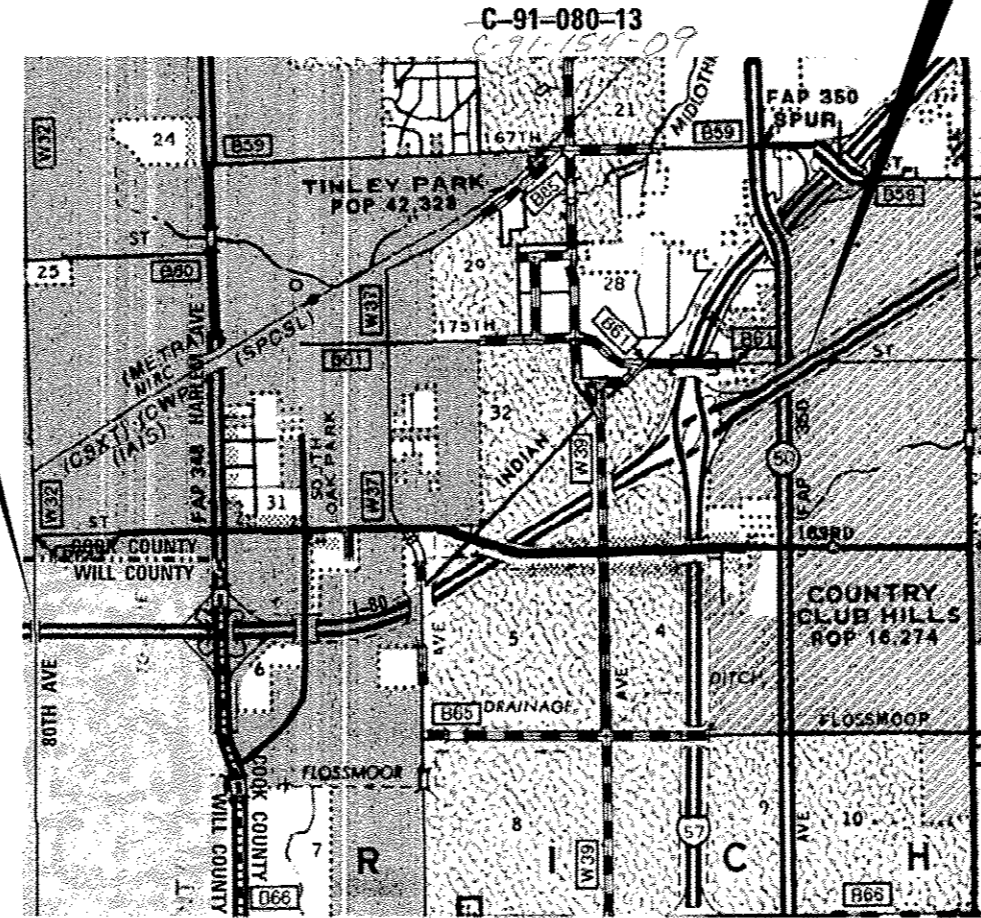
Feb 1 20 13  
*John D. Baranzolo* P.E. 12/13/12  
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 1 20 13  
*Omer Osman* P.E. 12/13/12  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



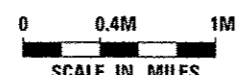
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811



PROJECT ENGINEER: ROLAND TOMSONS  
PROJECT MANAGER: MARK JENKINS

CONTRACT NO. 60V81



TOWNSHIPS: FRANKFORT, RICH & BREMEN  
GROSS LENGTH = 25,300 FT. = 4.792 MILE  
NET LENGTH = 25,300 FT. = 4.792 MILE



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DISTRICT ONE / ELECTRICAL / MARK JENKINS (847)-705-4350

**INDEX OF SHEETS**

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5-7 ALIGNMENT AND TIES
- 8 ITS GENERAL NOTES & LEGEND
- 9-26 FIBER OPTIC CABLE INSTALLATION PLAN I-80
- 27 FIBER OPTIC CABLE SINGLE LINE DIAGRAM
- 28 BRIDGE CROSSING DETAIL
- 29-37 DISTRICT ONE STANDARD DETAILS

**HIGHWAY STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 836001-02 CONCRETE FOUNDATIONS
- 814001-02 CONCRETE HANDHOLES
- 701101-03 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
- 701400-06 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-07 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701901-02 TRAFFIC CONTROL DEVICES

**DISTRICT 1 STANDARD DETAILS**

- BE-705 COMMUNICATIONS VAULT, COMPOSITE CONCRETE
- BE-2100 TRUNK CABLE FIBER ASSIGNMENTS, FAI 80 FROM 80TH AVE TO I-57
- BE-2110 DISTRIBUTION CABLE FIBER ASSIGNMENTS, FAI 80 FROM 80TH AVE TO I-57
- BE-2130 TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS
- TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
- TC-18 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TS-03 HANDHOLE TO INTERCEPT EXISTING CONDUIT

**GENERAL NOTES**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2013, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
3. THE LOCATION OF EXISTING FACILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, CONFIGURATION AND NATURE OF ANY AND ALL EXISTING FACILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING FACILITIES (FIBER OPTIC CABLE, ELECTRIC OR ANY OTHER COMMUNICATIONS CABLES OR EQUIPMENT) NEAR PROPOSED WORK AREAS WHICH ARE TO REMAIN IN SERVICE SHALL BE RECONFIGURED AND BE FULLY PROTECTED BY THE CONTRACTOR. ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO IDOT TO THE SATISFACTION OF THE ENGINEER.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES AND MUNICIPALITIES. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES AND THEIR OPERATION.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
7. ALL FRAMES, GRATES, PAVEMENT, FENCES, DELINEATORS AND APPURTENANCES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
8. THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING FIELD CONDITIONS PRIOR TO BIDDING, ORDERING MATERIALS, OR BEGINNING OF CONSTRUCTION ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS.
10. CONTRACTOR SHALL INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT STRUCTURE JOINTS AS NEEDED PER BRIDGE CROSSING DETAILS AT NO ADDITIONAL COST.
11. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR, SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF FIBER OPTIC CABLE SHALL NOT BE ALLOWED. FIBER OPTIC CABLE SHALL BE REPLACED FROM COMMUNICATION VAULT TO COMMUNICATION VAULT.
12. FLUORESCENT VESTS AND HARD HATS: ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT ORANGE, FLUORESCENT YELLOW/GREEN OR A COMBINATION OF FLUORESCENT ORANGE AND FLUORESCENT YELLOW/GREEN VESTS AND HARD HATS AT ALL TIMES WHILE ON THE CONSTRUCTION SITE.
13. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT EQUIPMENT FROM DAMAGE OR INTERFERENCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE WORK AREA FREE FROM DEBRIS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
14. THE STANDARD DRAWINGS LISTED IN THE PLANS INDEX ARE INTENDED TO BE THE LATEST REVISIONS AND SHALL TAKE PRECEDENCE OVER EARLIER REVISIONS THAT MAY BE REFERRED TO ELSEWHERE IN THE PLANS OR SPECIAL PROVISIONS.

**TRAFFIC CONTROL PLAN NOTES**

1. TRAFFIC CONTROL AND PROTECTION SHALL CONSIST OF SHOULDER AND LANE CLOSURES TO ALLOW WORK OFF THE EDGE OF TRAVELED WAY AND AT BRIDGES, IN ACCORDANCE WITH FOLLOWING IDOT HIGHWAY STANDARDS AND DISTRICT ONE STANDARDS FOR TRAFFIC CONTROL:
 

701101-03	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-06	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-07	LANE CLOSURE, FREEWAY/EXPRESSWAY
701901-02	TRAFFIC CONTROL DEVICES
TC-17	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE
TC-22	ARTERIAL ROAD INFORMATION SIGN

THESE STANDARDS WILL NOT BE PAID FOR AS SEPARATELY BUT WILL BE INCLUDED IN THE PRICE FOR TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) AS A LUMP SUM PAY ITEM.
2. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, IDOT STANDARD SPECIFICATIONS, PLAN SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION STAGING AND TRAFFIC CONTROL WORK WITH ADJOINING OR OVERLAPPING CONTRACTS. THE COST OF ANY ADDITIONAL TRAFFIC CONTROL AND/OR TEMPORARY CONSTRUCTION ITEMS REQUIRED FOR SUCH COORDINATION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)."
4. THE TRAFFIC CONTROL PLAN SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLAN TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
5. THE ENGINEER SHALL BE INFORMED 21 DAYS IN ADVANCE OF ANY CHANGE TO THE TRAFFIC CONTROL PLAN.
6. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATIONS PER THE TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT, OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
7. ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL AND PROTECTION SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING EXISTING SPEED LIMIT SIGNS, GUIDE SIGNS, OR ANY OTHER CONFLICTING SIGNS FOR THE DURATION OF THE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE METHOD IN WHICH THE SIGNS WILL BE COVERED TO THE ENGINEER FOR APPROVAL.
9. LOCATIONS OF CHANGEABLE MESSAGE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
10. DRUMS OR TYPE II BARRICADES AND VERTICAL PANELS SHALL BE EQUIPPED WITH MONODIRECTIONAL STEADY BURN LIGHTS AND SHALL BE PLACED AT 50' INTERVALS ALONG WORK ZONES, AT 25' INTERVALS IN CURVES, AND AT 25' INTERVALS IN TAPER SECTIONS AS INDICATED IN THE IDOT HIGHWAY STANDARDS OR AS DIRECTED BY THE ENGINEER. TYPE II BARRICADES SHALL HAVE A MINIMUM REFLECTORIZED AREA OF 288 SQUARE INCHES AND BE 2' IN WIDTH.
11. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), ILLINOIS SUPPLEMENT TO THE MUTCD, IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, IDOT STANDARD SPECIFICATIONS, CONTRACT SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC AND PROTECTION (EXPRESSWAYS).
12. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE OF CONSTRUCTION SIGNING. SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF CONSTRUCTION AND SHALL BE REMOVED OR COVERED WHEN PROTECTION IS NOT REQUIRED.
13. ALL ARROW BOARDS SHALL HAVE SOLAR POWER CAPABILITY.
14. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" BY 6" DELINEATOR INSTALLED.

NOTE: BOXED ITEMS ARE INCLUDED IN THE COST OF THE CONTRACT.



FILE NAME J:\293\Fish-3\DCN\CADD Sheets\60V81\DI60V81-sh182-gennote.dgn	USER NAME * USER BY81-sh182-gennote.dgn	DESIGNED - OB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES</b>				F.A.I RTE. 80	SECTION 2012-0711	COUNTY WILL/COOK	TOTAL SHEETS 37	SHEET NO. 2
PLOT SCALE * 50.0000 / / in.	CHECKED - IY	REVISED -	REVISED -		SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A				CONTRACT NO. 60V81				
PLOT DATE * 12/19/2012	DATE - 12/21/2012	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT								

73  
722

100% FED.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				WILL COUNTY ROADWAY 0043 URBAN	COOK COUNTY ROADWAY 0043 URBAN
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	3	9
67100100	MOBILIZATION	L SUM	1	0.3	0.7
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	3	9
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,292	213	1,079
81101005	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC COATED GALVANIZED STEEL	FOOT	221		221
81300960	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 42" X 36" X 12"	EACH	2		2
81400200	HEAVY-DUTY HANDHOLE	EACH	17	3	14
81603037	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	240	240	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.3	0.7
Z0033052	COMMUNICATIONS VAULT	EACH	21	6	15
<del>Z0076600</del>	<del>TRAINEES</del>	<del>HOOR</del>	<del>80</del>	<del>24</del>	<del>56</del>
X0323898	CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	2	2	
X0323914	FIBER OPTIC CABLE SPLICE - LATERAL	EACH	9	3	6
X0325040	FIBER OPTIC INNERDUCT 1 1/4" DIA.	FOOT	53,375	13,907	39,468

13  
A  
SPECIALTY ITEM

**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

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PLOT DATE * 12/19/2012	DATE - 12/21/2012		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET 1	OF 2 SHEETS	STA. N/A TO STA. N/A

F.A.J. RTE. 80	SECTION 2012-0711	COUNTY WILL/COOK	TOTAL SHEETS 37	SHEET NO. 3
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60VB1				

100% FED.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				WILL COUNTY ROADWAY	COOK COUNTY ROADWAY
				0043	0043
				URBAN	URBAN
X0326946	CLOSED CIRCUIT TELEVISION CAMERA INSTALLATION	EACH	2	2	
X0326948	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 50 FT. MOUNTING HEIGHT	EACH	2	2	
X0326964	FIBER OPTIC INTERCONNECT CABINET	EACH	1	1	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0.3	0.7
X8710035	FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE	FOOT	56,538	14,968	41,570
X8710036	FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	2,387	389	1,998
X0327561	BUDGETARY ALLOWANCE FOR CCTV INTEGRATION	L SUM	1	0.3	0.7
X0327562	CCTV CAMERA CONTROLLER	EACH	2	2	
X0327563	MODIFY EXISTING CONTROLLER FOR CCTV POWER	EACH	2	2	

\* SPECIALTY ITEM



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		DATE - 12/21/2012	REVISED -

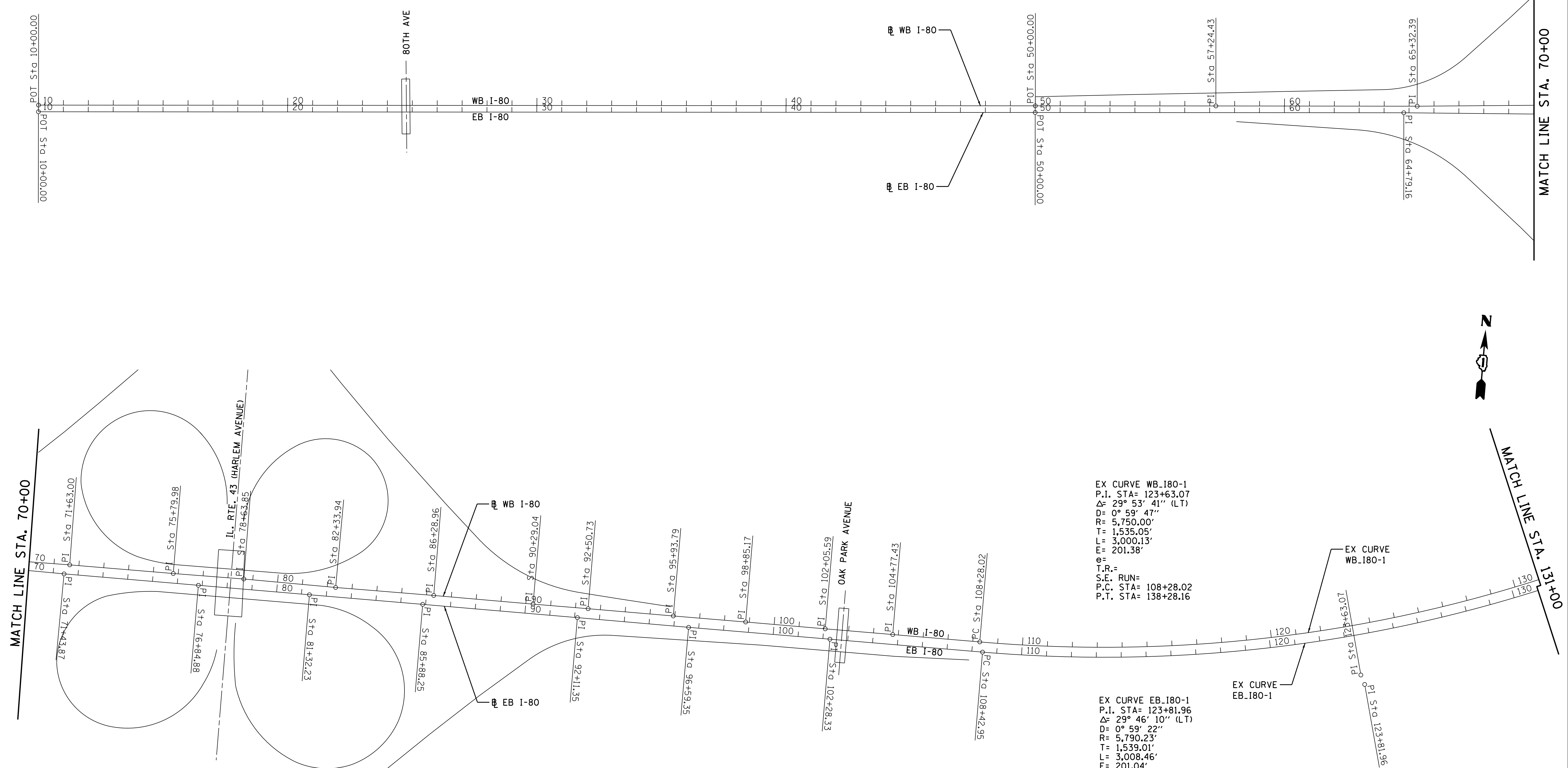
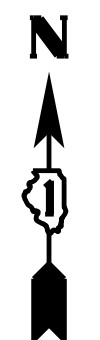
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>				
SCALE: N/A	SHEET 2	OF 2	SHEETS	STA. N/A TO STA. N/A

F.A.I. RTE. 80	SECTION 2012-0711	COUNTY WILL/COOK	TOTAL SHEETS 37	SHEET NO. 4
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				

NOTE: PLAN ALIGNMENTS & SUPPORTING DATA

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EX CURVE WB\_180-1  
 P.I. STA= 123+63.07  
 $\Delta$ = 29° 53' 41" (LT)  
 D= 0° 59' 47"  
 R= 5,750.00'  
 T= 1,535.05'  
 L= 3,000.13'  
 E= 201.38'  
 e=  
 T.R.=  
 S.E. RUN=  
 P.C. STA= 108+28.02  
 P.T. STA= 138+28.16

EX CURVE EB\_180-1  
 P.I. STA= 123+81.96  
 $\Delta$ = 29° 46' 10" (LT)  
 D= 0° 59' 22"  
 R= 5,790.23'  
 T= 1,539.01'  
 L= 3,008.46'  
 E= 201.04'  
 e=  
 T.R.=  
 S.E. RUN=  
 P.C. STA= 108+42.95  
 P.T. STA= 138+51.41



**SINGH**  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

FILE NAME J:\293\Task-3\DDN\CADD Sheets\60V81\0160V81-sh-t05-ATB1.dgn	USER NAME = _USER_	DESIGNED - OB	REVISED -
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PLOT DATE = 12/19/2012	DATE - 12/21/2012		REVISED -

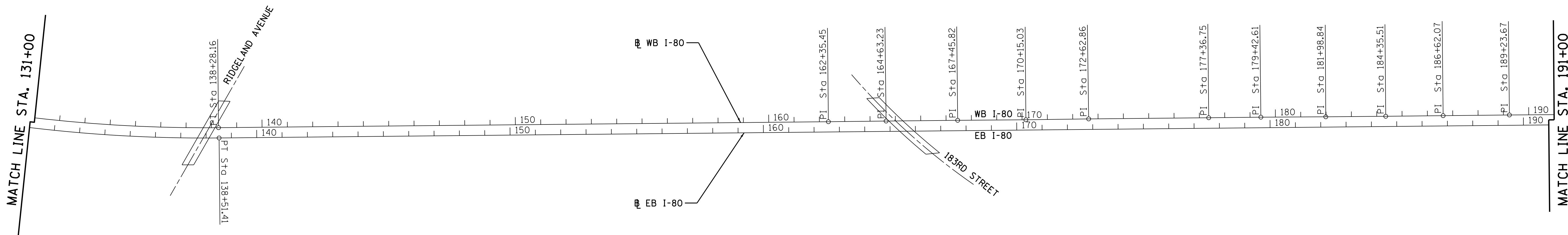
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT AND TIES</b>			
SCALE: 1"=200'	SHEET 1	OF 3 SHEETS	STA. 10+00 TO STA. 131+00

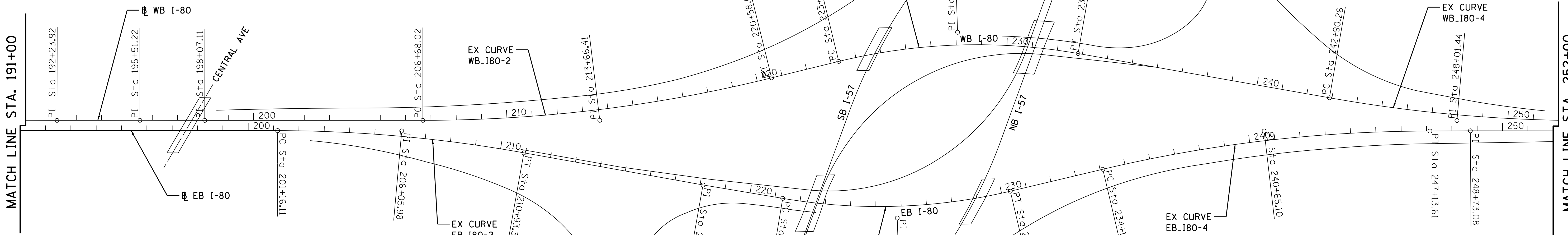
F.A.I. RTE. 80	SECTION 2012-0711	COUNTY WILL/COOK	TOTAL SHEETS 37	SHEET NO. 5
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				

NOTE: PLAN ALIGNMENTS & SUPPORTING DATA

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CURVE WB 180-2	CURVE WB 180-3	CURVE WB 180-4
P.I. STA= 213+66.41	P.I. STA= 228+13.79	P.I. STA= 248+01.44
$\Delta$ = 13° 51' 02" (LT)	$\Delta$ = 23° 42' 47" (RT)	$\Delta$ = 10° 04' 25" (LT)
D= 0° 59' 47"	D= 2° 29' 28"	D= 0° 59' 16"
R= 5,750.00	R= 2,300.00	R= 5,800.00'
T= 698.40'	T= 482.86'	T= 511.19'
L= 1,389.99'	L= 951.90'	L= 1,019.74'
E= 42.26'	E= 50.14'	E= 22.48'
e=	e=	e=
T.R.=	T.R.=	T.R.=
S.E. RUN=	S.E. RUN=	S.E. RUN=
P.C. STA= 206+68.02	P.C. STA= 223+30.93	P.C. STA= 242+90.26
P.T. STA= 220+58.00	P.T. STA= 232+82.83	P.T. STA= 253+09.99



CURVE EB 180-2	CURVE EB 180-3	EX CURVE EB 180-4
P.I. STA= 206+05.98	P.I. STA= 225+89.24	P.I. STA= 240+65.10
$\Delta$ = 9° 59' 56" (RT)	$\Delta$ = 23° 02' 26" (LT)	$\Delta$ = 13° 19' 51" (RT)
D= 1° 01' 23"	D= 2° 32' 47"	D= 1° 01' 23"
R= 5,600.00	R= 2,250.00'	R= 5,600.00'
T= 489.88'	T= 458.60'	T= 654.42'
L= 977.26'	L= 904.80'	L= 1,302.93'
E= 21.39'	E= 46.26'	E= 38.11'
e=	e=	e=
T.R.=	T.R.=	T.R.=
S.E. RUN=	S.E. RUN=	S.E. RUN=
P.C. STA= 201+16.11	P.C. STA= 221+30.64	P.C. STA= 234+10.67
P.T. STA= 210+93.37	P.T. STA= 230+35.45	P.T. STA= 247+13.61



FILE NAME	USER NAME = _USER_	DESIGNED - OB	REVISED -
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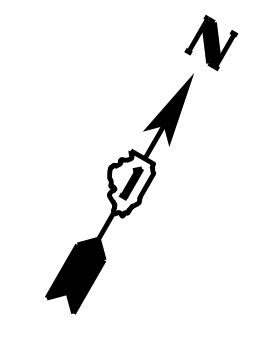
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES			
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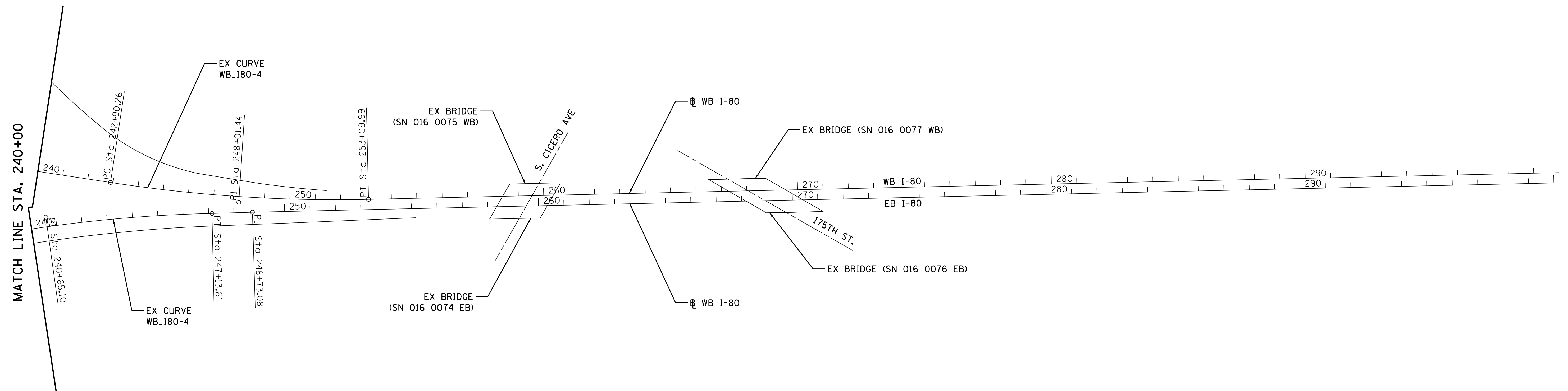
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	6
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				

NOTE: PLAN ALIGNMENTS & SUPPORTING DATA

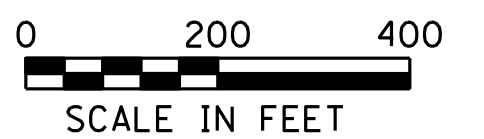
THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS WAS DEVELOPED FROM PREVIOUS PLANIMETRICS AND AS BUILTS FURNISHED BY THE DEPARTMENT AND IS NOT THE RESULT OF A GROUND SURVEY. THEREFORE, THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUIRED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS.



EXIST. CURVE WB.180-4  
 PI STA. = 248+01.44  
 $\Delta = 10^{\circ} 04' 25''$  (LT)  
 D =  $0^{\circ} 59' 16''$   
 R = 5,800.00'  
 T = 511.19'  
 L = 1,019.74'  
 E = 22.48'  
 e = -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 242+90.26  
 P.T. STA. = 253+09.99



EXIST. CURVE EB.180-4  
 PI STA. = 240+65.10  
 $\Delta = 13^{\circ} 19' 51''$  (RT)  
 D =  $1^{\circ} 01' 23''$   
 R = 5,600.00'  
 T = 654.42'  
 L = 1,302.93'  
 E = 38.11'  
 e = -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 234+10.67  
 P.T. STA. = 247+13.61



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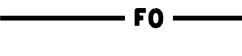
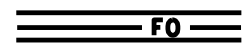
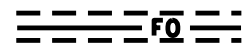




**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT AND TIES**

SCALE: 1"=200' SHEET 3 OF 3 SHEETS STA. 240+00 TO STA. 300+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	7
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				

**LEGEND**

-  TRAFFIC SURVEILLANCE CONTROLLER, EXISTING
-  HEAVY DUTY HANDHOLE, EXISTING
-  HEAVY DUTY HANDHOLE, PROPOSED
-  JUNCTION BOX, PROPOSED
-  COMMUNICATIONS VAULT, PROPOSED
-  FIBER OPTIC INTERCONNECT CABINET, PROPOSED
-  FIBER OPTIC CABLE
-  UNDERGROUND CONDUIT, GALVANIZED STEEL (SIZE AND LENGTH AS NOTED ON PLANS)
-  CONDUIT ATTACHED TO STRUCTURE, PVC COATED GALVANIZED STEEL (SIZE AS NOTED ON PLANS)
-  CCTV DOME CAMERA AND STRUCTURE, EXISTING
-  CCTV DOME CAMERA AND STRUCTURE
-  CCTV CAMERA EQUIPMENT CABINET
-  UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE

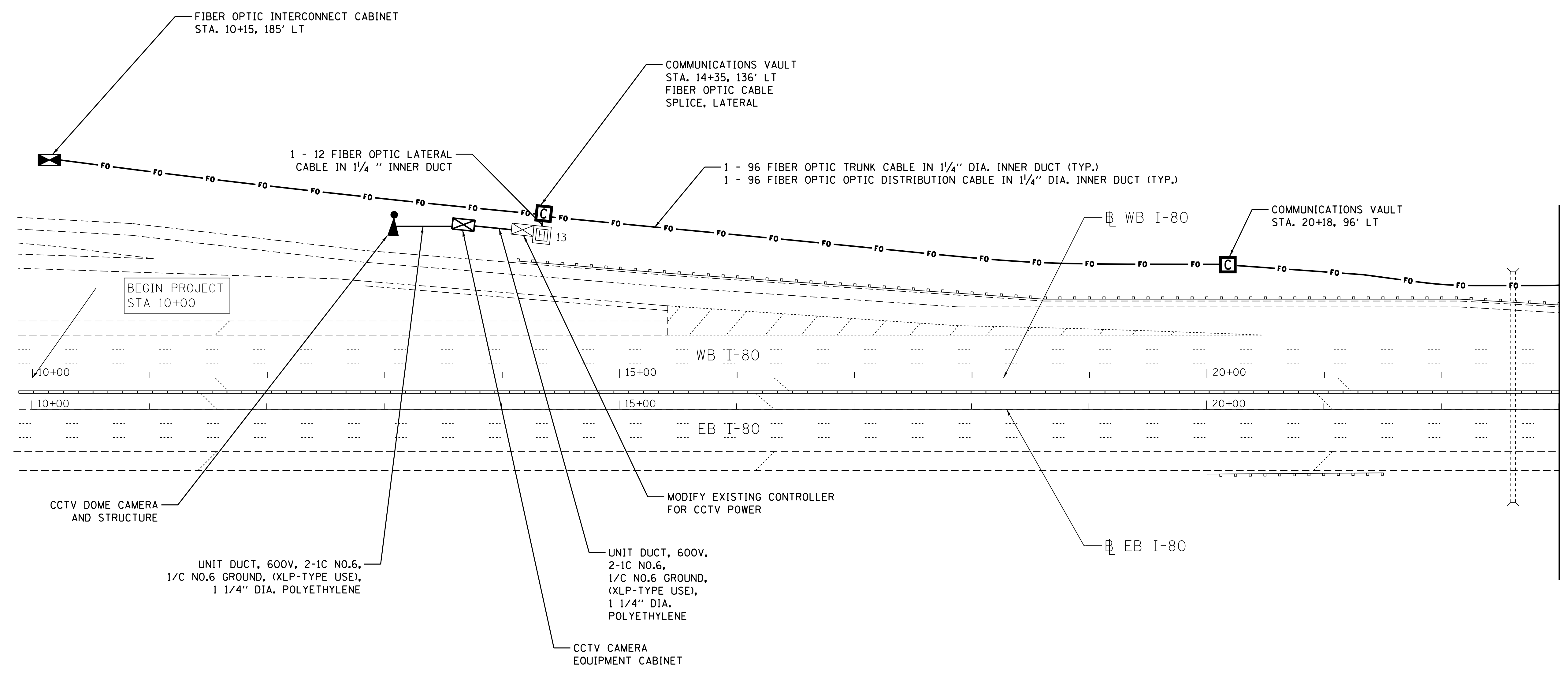
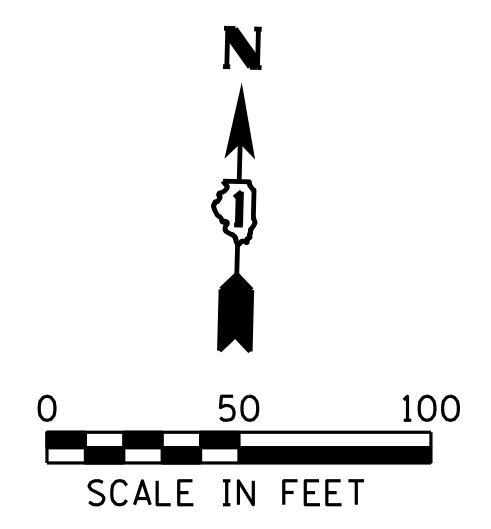
**GENERAL NOTES**

1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF EXISTING SURVEILLANCE CABINETS AND FIBER OPTIC CABLE PRIOR TO BIDDING THE JOB. STATIONING PROVIDED ON THE PLANS TAKE PRECEDENCE.
2. 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.
3. A MAINLINE SPLICE SHALL NOT BE IN THE SAME COMMUNICATIONS VAULT AS A LATERAL SPLICE. MAINLINE SPLICES SHALL UTILIZE TWO COMMUNICATION VAULTS (ONE NEXT TO THE OTHER UNLESS OTHERWISE NOTED). 1-96 SINGLE MODE FIBER MAINLINE SPLICE IN ONE VAULT AND THE OTHER 96 SINGLE MODE FIBER MAINLINE SPLICE IN THE OTHER VAULT.
4. 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.
5. THE ELECTRICAL MAINTENANCE CONTRACTOR (EMC) SHALL BE CONTACTED FOR EXISTING STATE OWNED FACILITIES LOCATES.
6. ALL UNDERGROUND RACEWAYS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30-INCHES.
7. THE CONTRACTOR SHALL VERIFY ADEQUATE CLEARANCE OVER EXISTING FACILITIES BEFORE INSTALLING DUCTS, CONDUIT AND CABLES.
8. ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS SHALL BE RESTORED WITH TOPSOIL AND GRASS SEEDING. DAMAGED SHOULDER AREAS SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. REPAIR TO DAMAGED FENCING IS INCIDENTAL TO THE CONTRACT, SEPARATE PAYMENT WILL NOT BE MADE.

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	8
<b>CONTRACT NO. 60V81</b>				
ILLINOIS FED. AID PROJECT				





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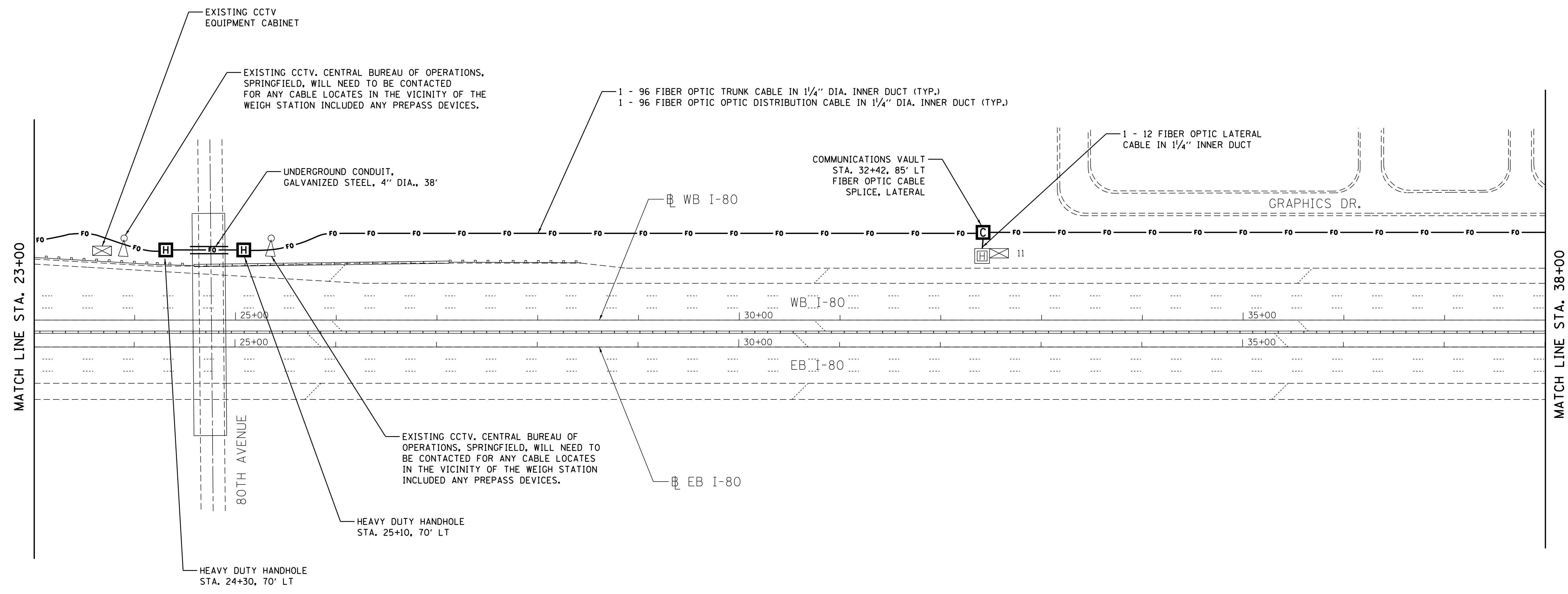
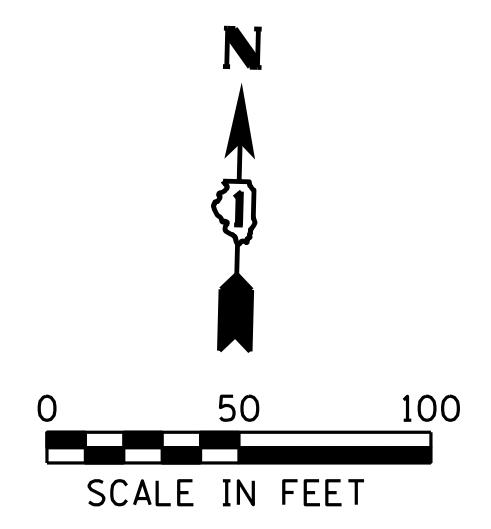
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 2 OF 19 SHEETS    STA. 10+00 TO STA. 23+00

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	9
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



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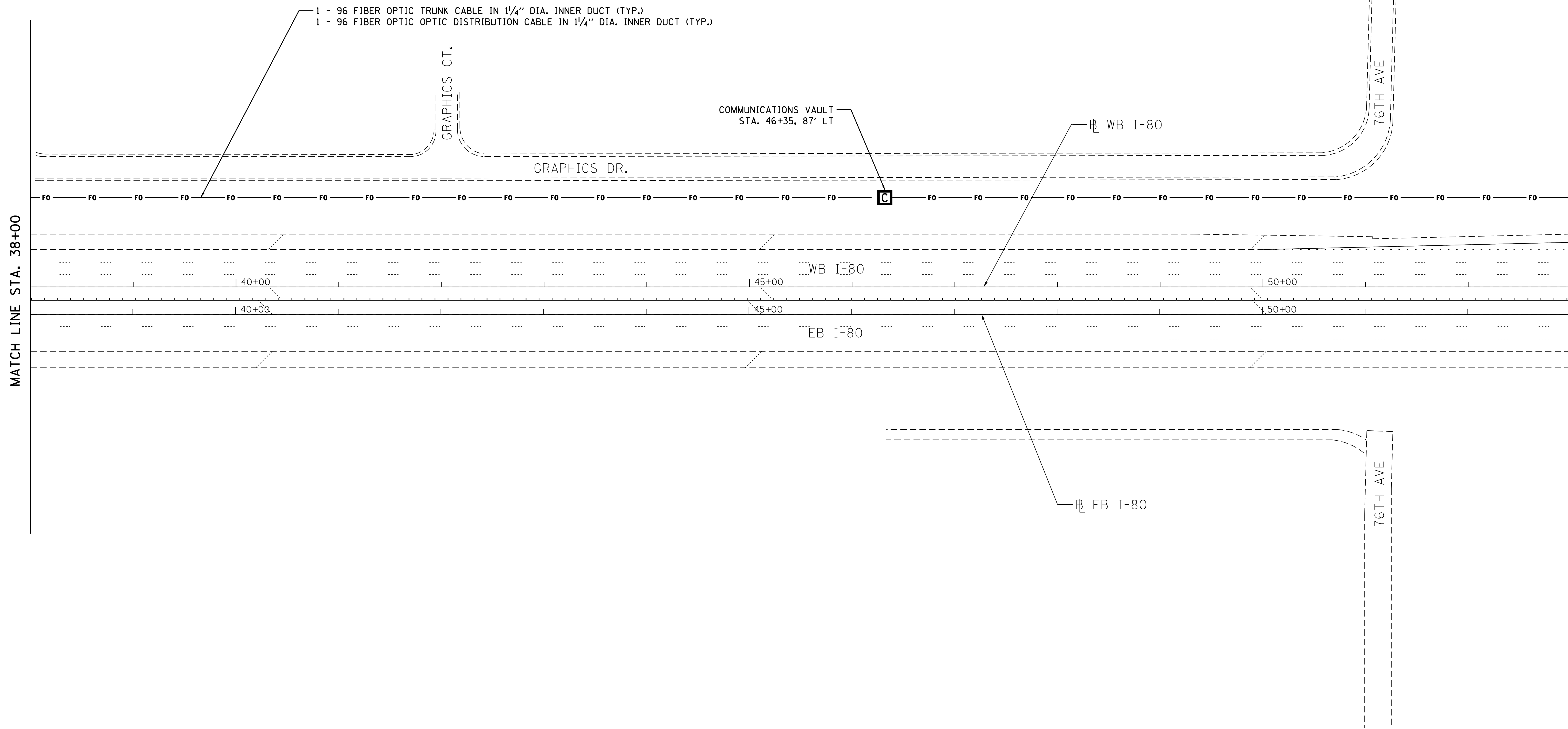
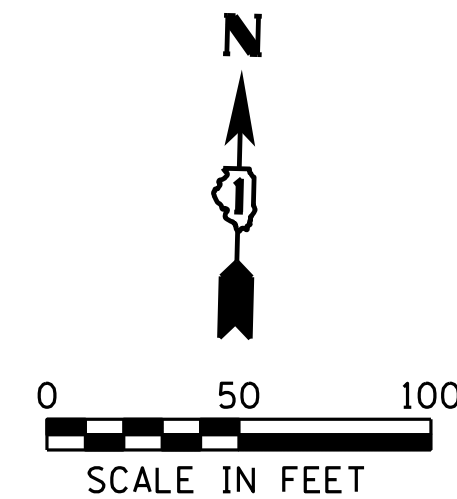
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 3 OF 19 SHEETS    STA. 23+00 TO STA. 38+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	10
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



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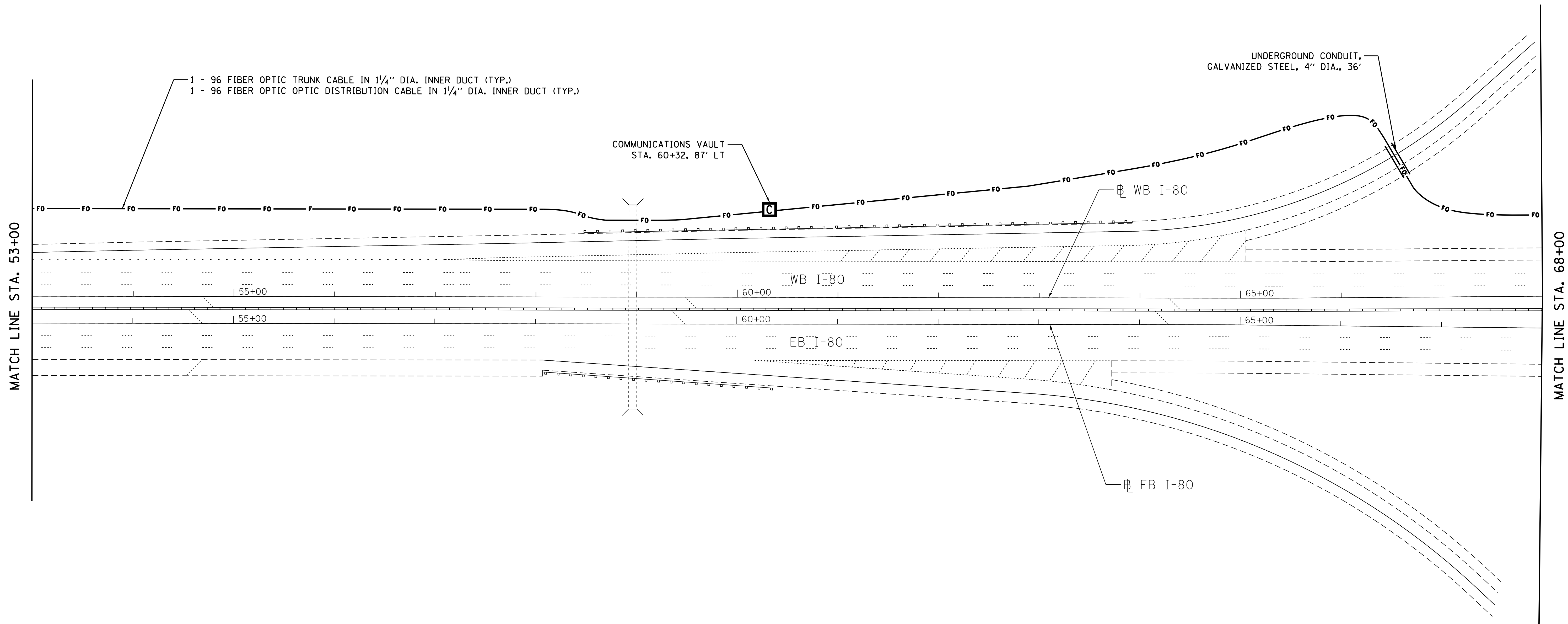
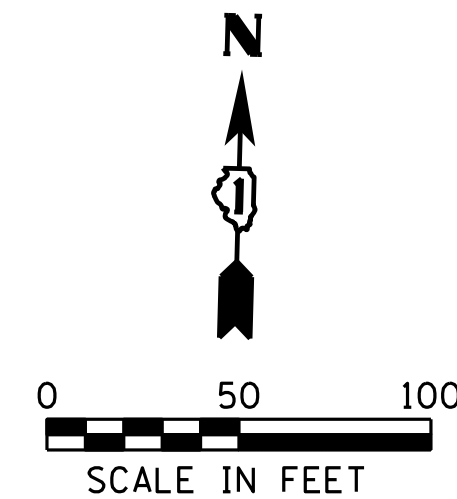
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 4 OF 19 SHEETS    STA. 38+00 TO STA. 53+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	11
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



1 - 96 FIBER OPTIC TRUNK CABLE IN 1/4" DIA. INNER DUCT (TYP.)  
 1 - 96 FIBER OPTIC OPTIC DISTRIBUTION CABLE IN 1/4" DIA. INNER DUCT (TYP.)

COMMUNICATIONS VAULT  
 STA. 60+32, 87' LT

UNDERGROUND CONDUIT,  
 GALVANIZED STEEL, 4" DIA., 36'

WB I-80

WB I-80

EB I-80

EB I-80

MATCH LINE STA. 53+00

MATCH LINE STA. 68+00

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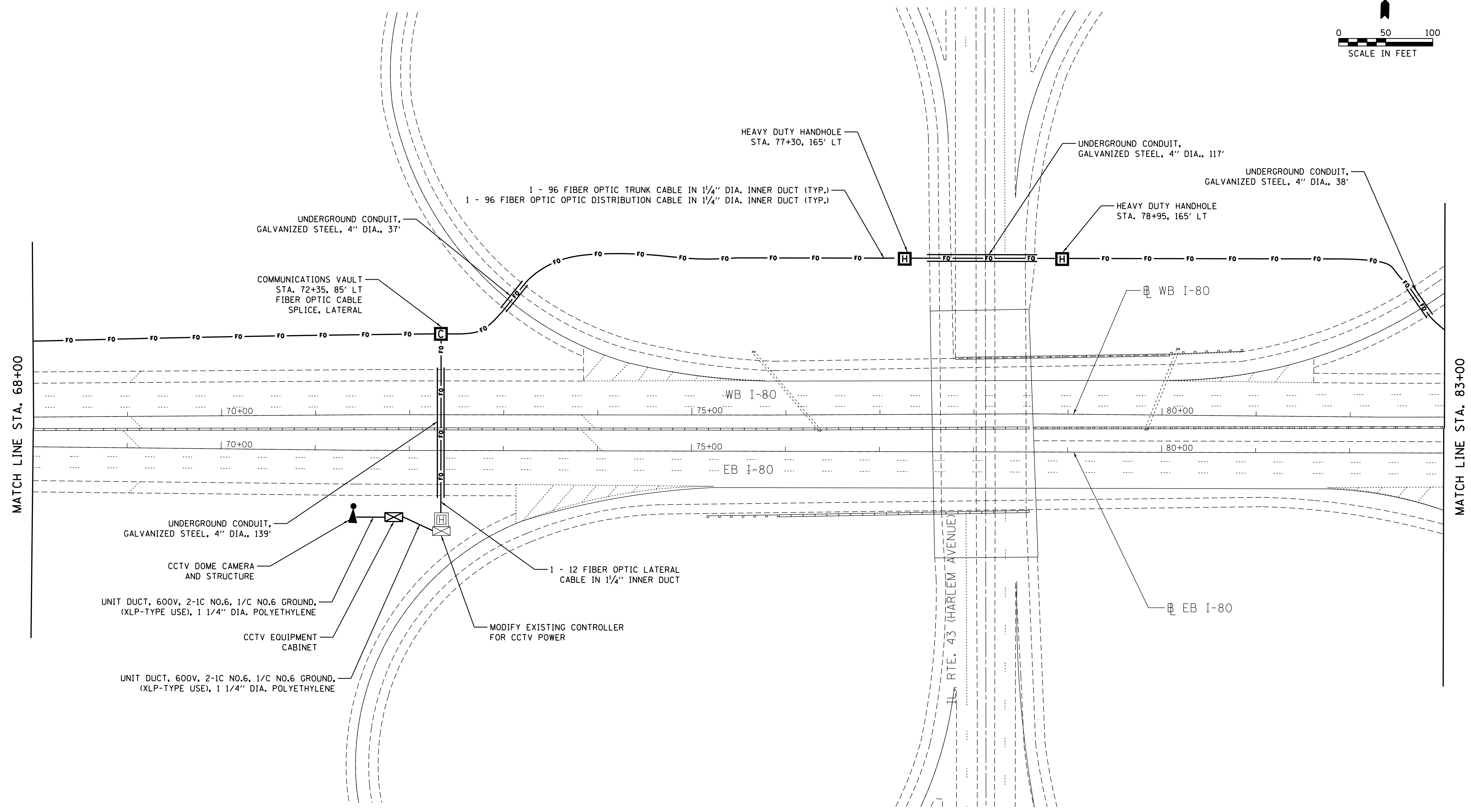
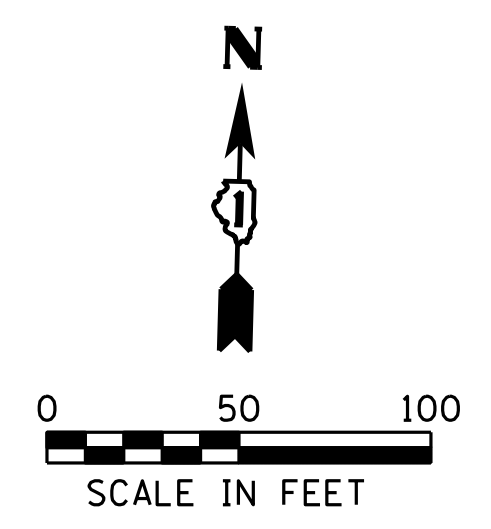
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION PLAN I-80

SCALE: 1"=50' SHEET 5 OF 19 SHEETS STA. 53+00 TO STA. 68+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	12
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



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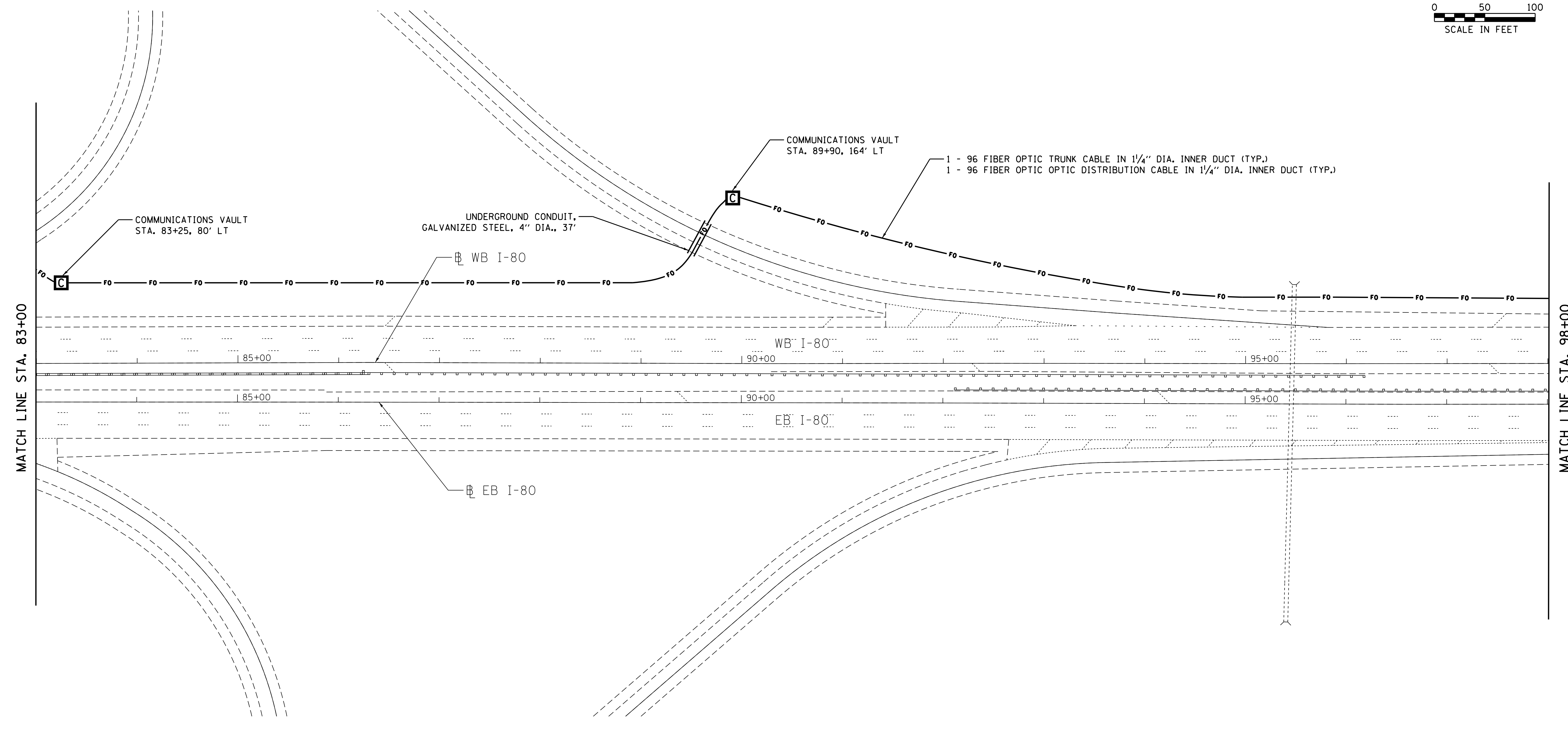
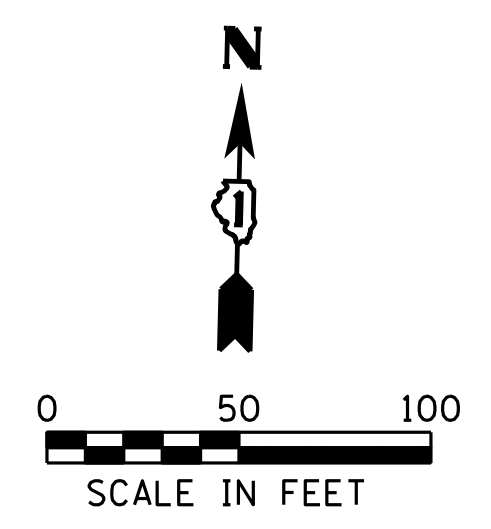
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 6 OF 19 SHEETS    STA. 68+00 TO STA. 83+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	13
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



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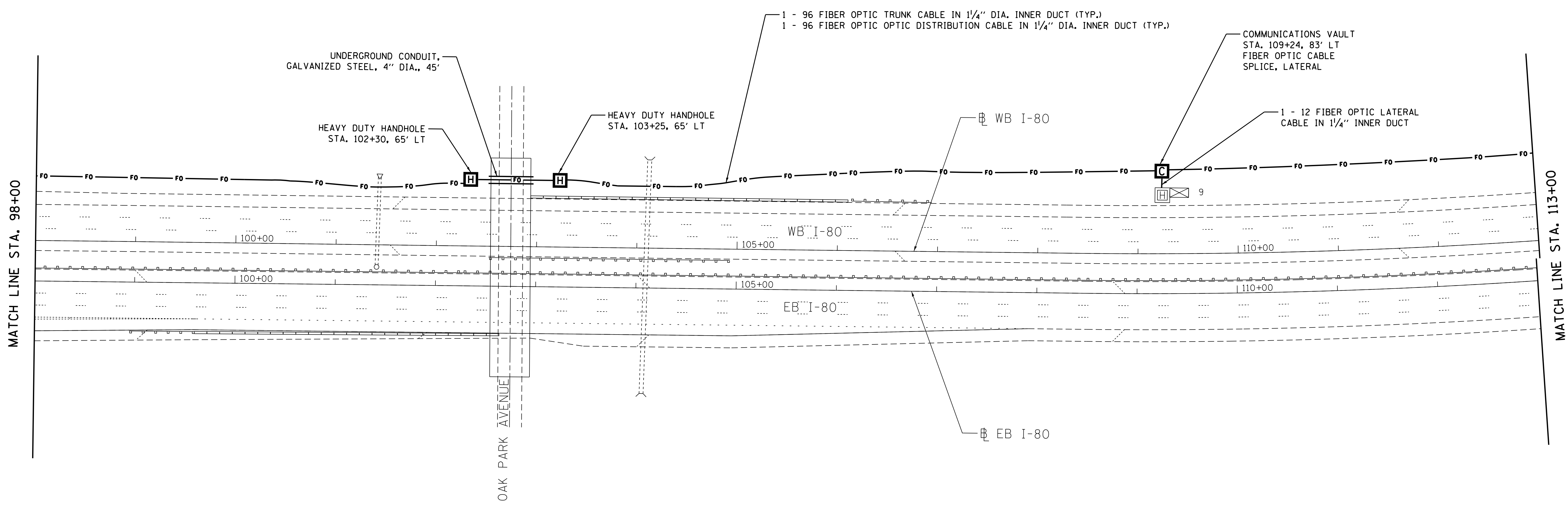
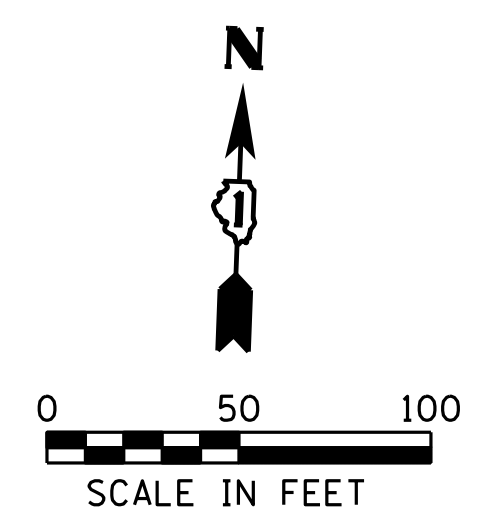
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 7 OF 19 SHEETS    STA. 83+00 TO STA. 98+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	14
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



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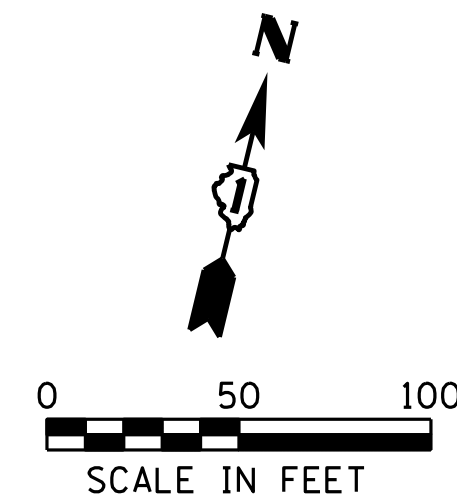
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

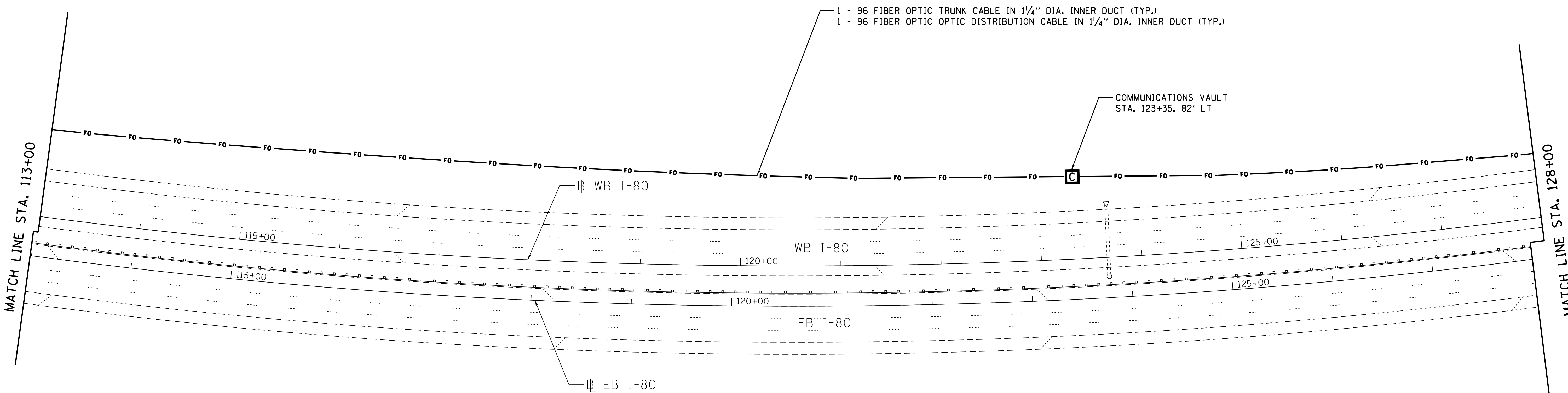
SCALE: 1"=50'    SHEET 8 OF 19 SHEETS    STA. 98+00 TO STA. 113+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	15
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



1 - 96 FIBER OPTIC TRUNK CABLE IN 1/4" DIA. INNER DUCT (TYP.)  
 1 - 96 FIBER OPTIC OPTIC DISTRIBUTION CABLE IN 1/4" DIA. INNER DUCT (TYP.)

COMMUNICATIONS VAULT  
 STA. 123+35, 82' LT



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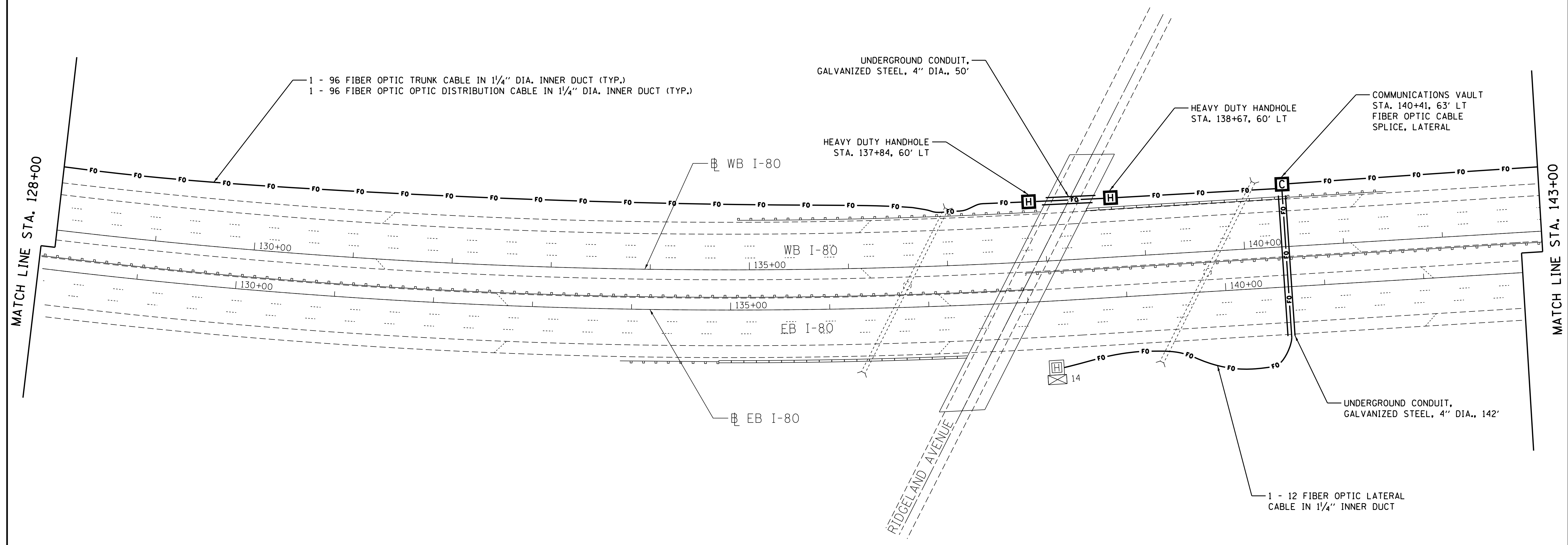
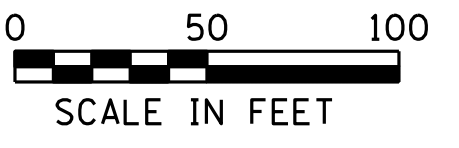
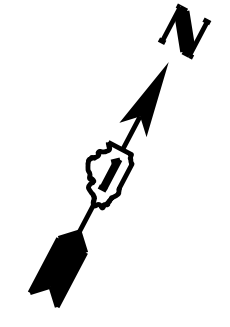
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION PLAN I-80

SCALE: 1"=50' SHEET 9 OF 19 SHEETS STA. 113+00 TO STA. 128+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	16
				CONTRACT NO. 60V81
ILLINOIS FED. AID PROJECT				





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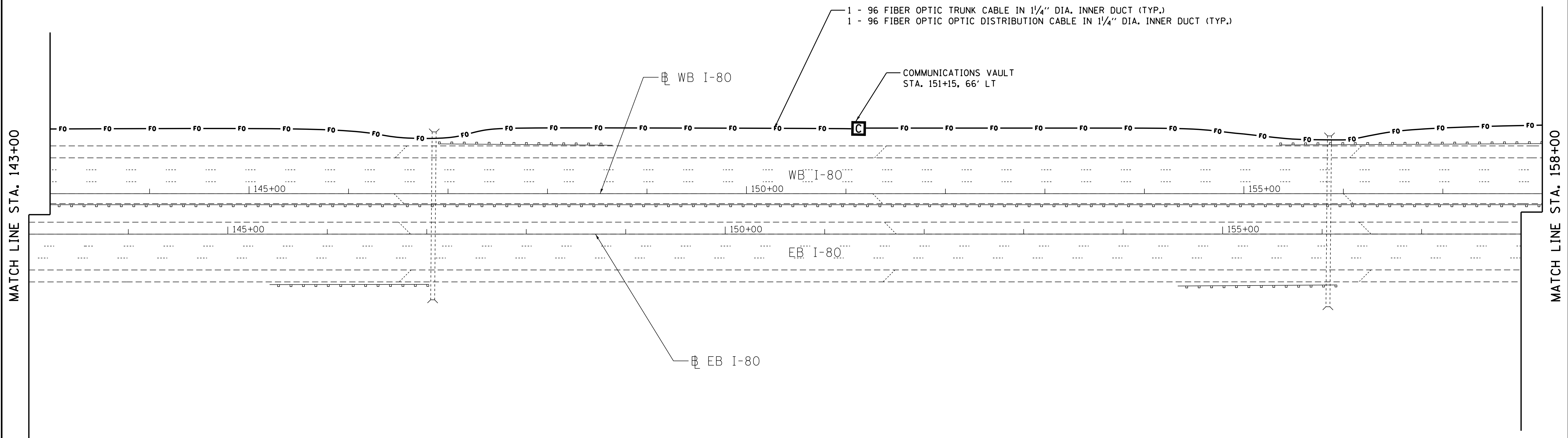
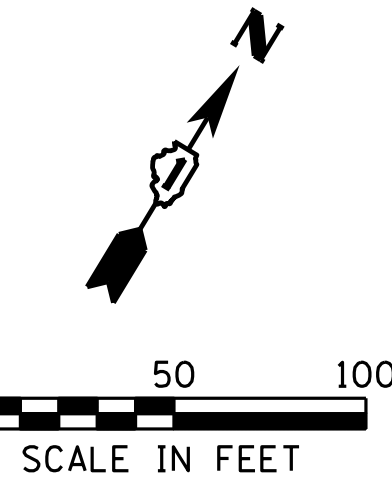
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 10 OF 19 SHEETS    STA. 128+00 TO STA. 143+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	17
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



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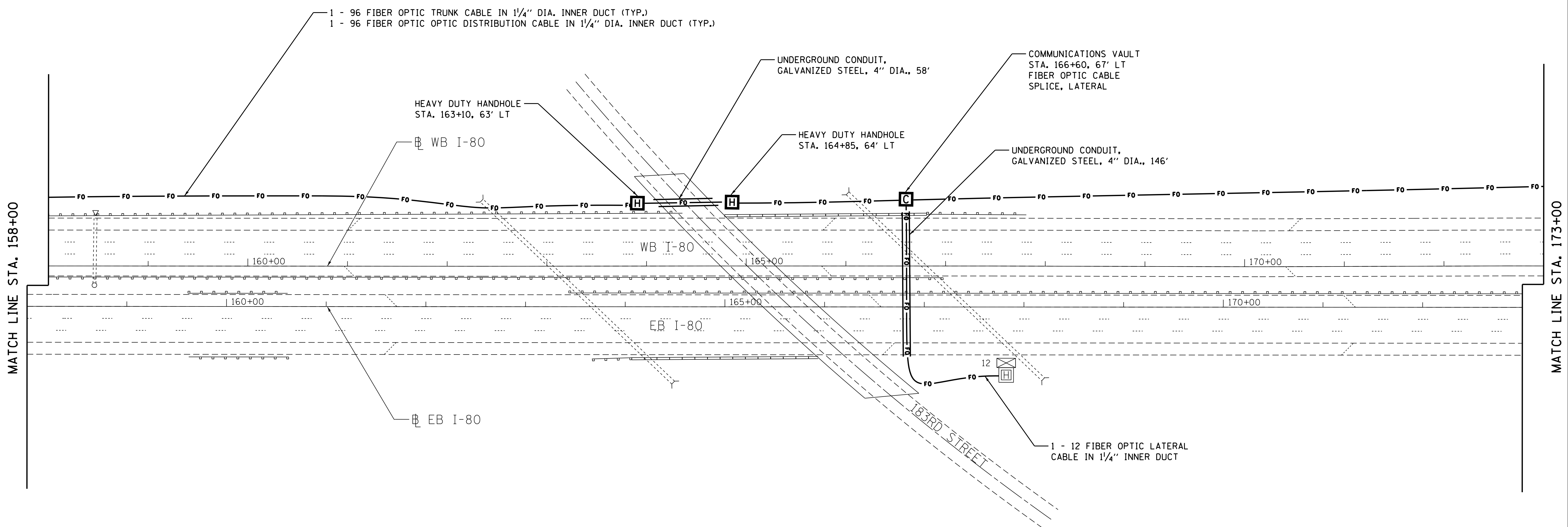
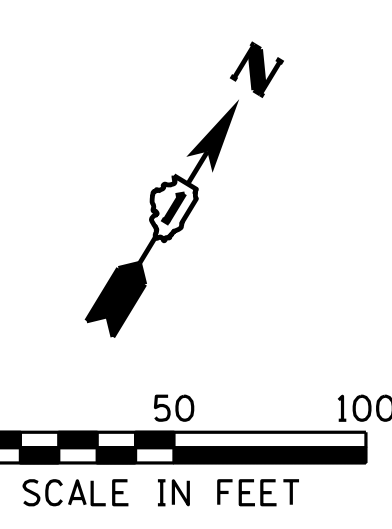
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 11 OF 19 SHEETS    STA. 143+00 TO STA. 158+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	18
CONTRACT NO. 60V81			ILLINOIS FED. AID PROJECT	



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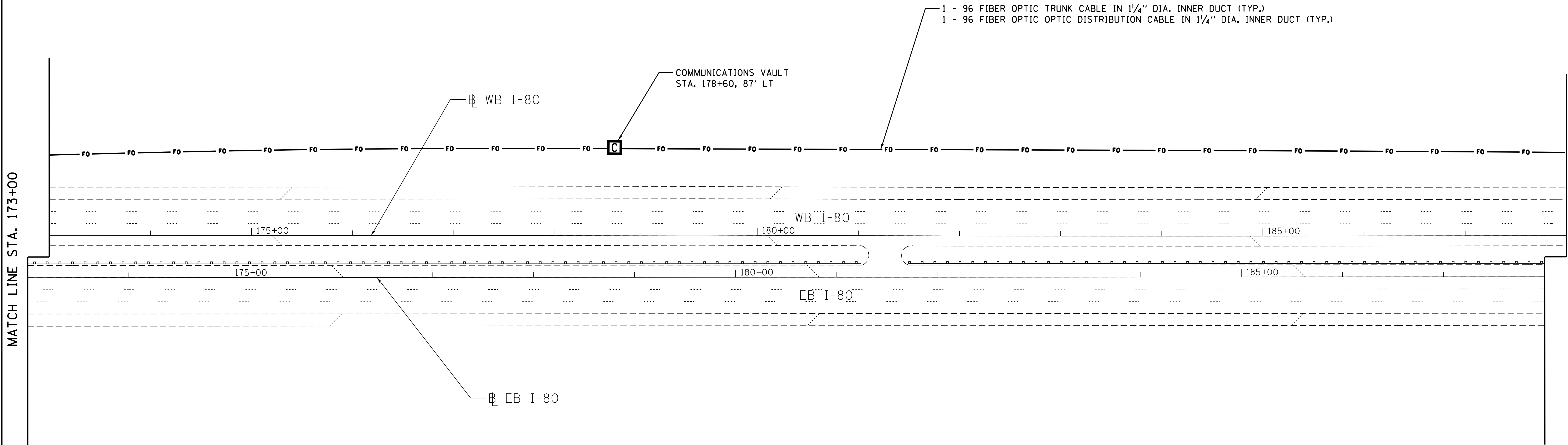
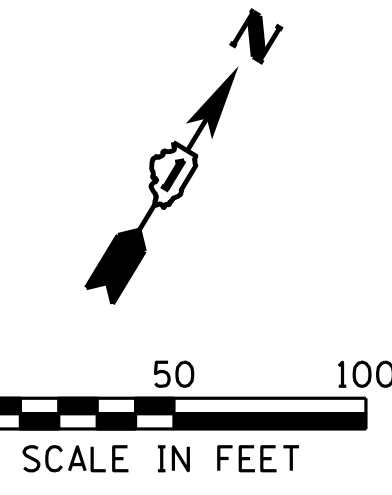
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 12 OF 19 SHEETS    STA. 158+00 TO STA. 173+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	19
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

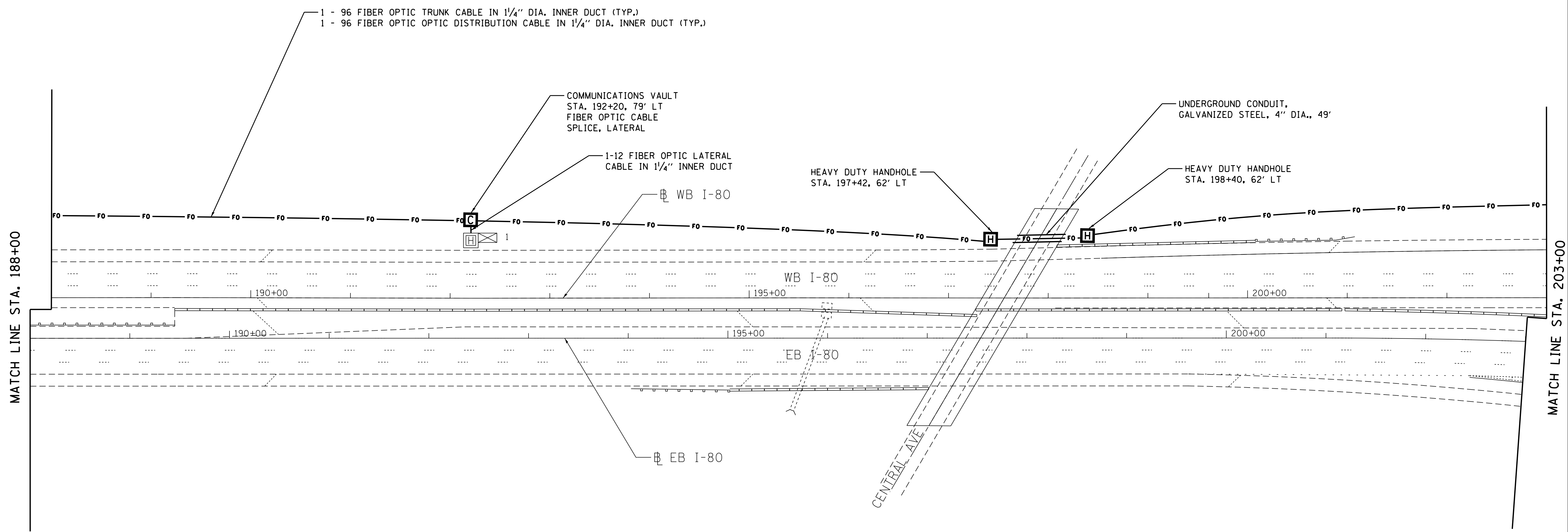
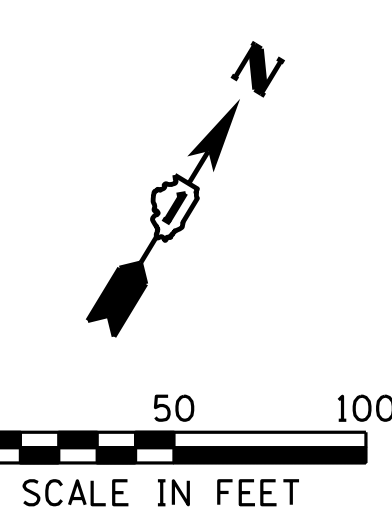
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 13 OF 19 SHEETS    STA. 173+00 TO STA. 188+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	20
				<b>CONTRACT NO. 60V81</b>
ILLINOIS FED. AID PROJECT				



**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

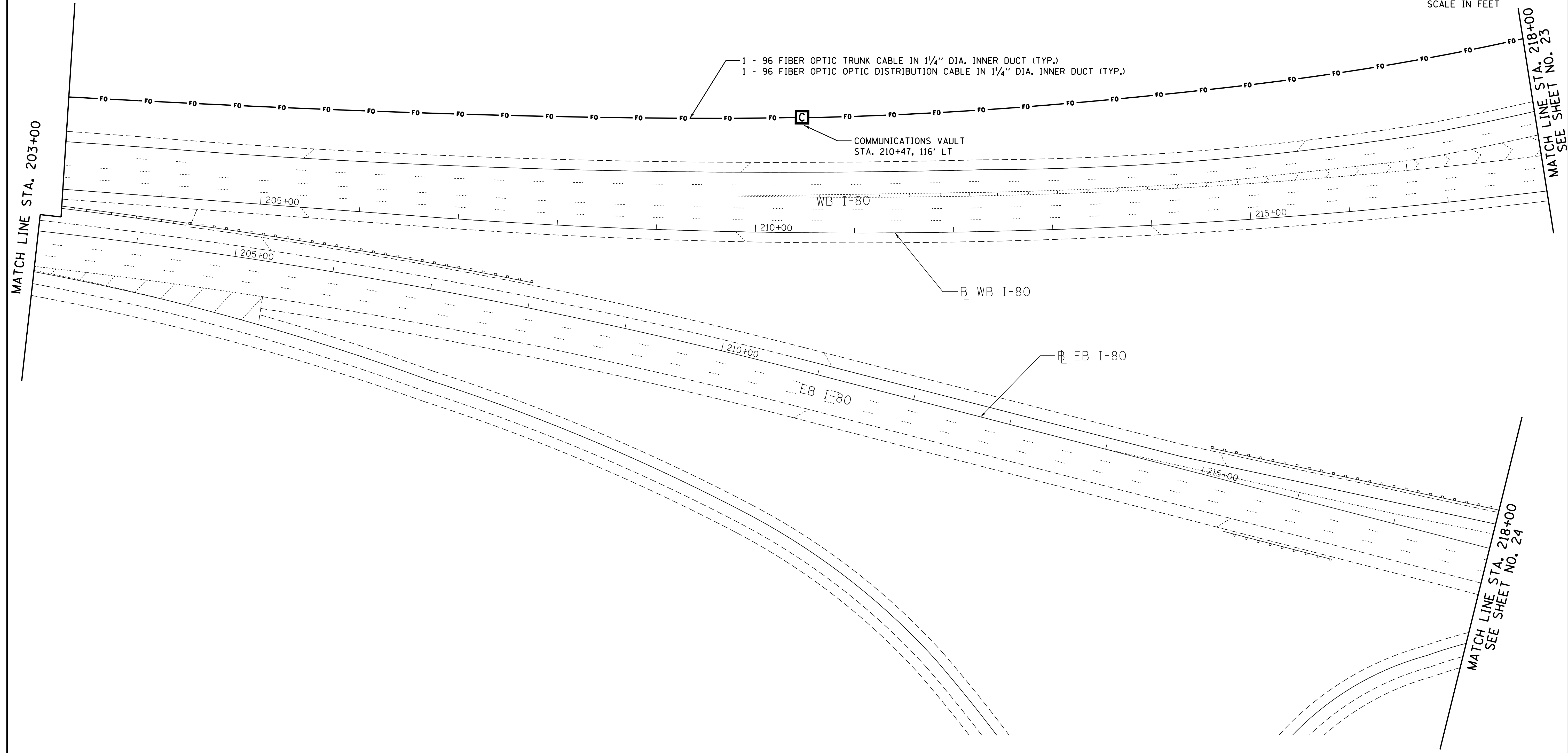
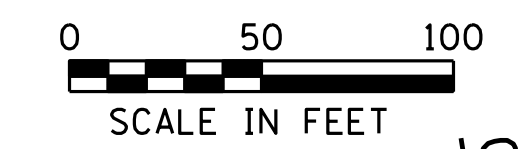
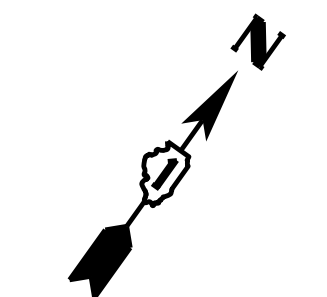
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	PLOT DATE = 12/19/2012	DATE - 12/21/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 14 OF 19 SHEETS    STA. 188+00 TO STA. 203+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	21
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



**SINGH**  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS

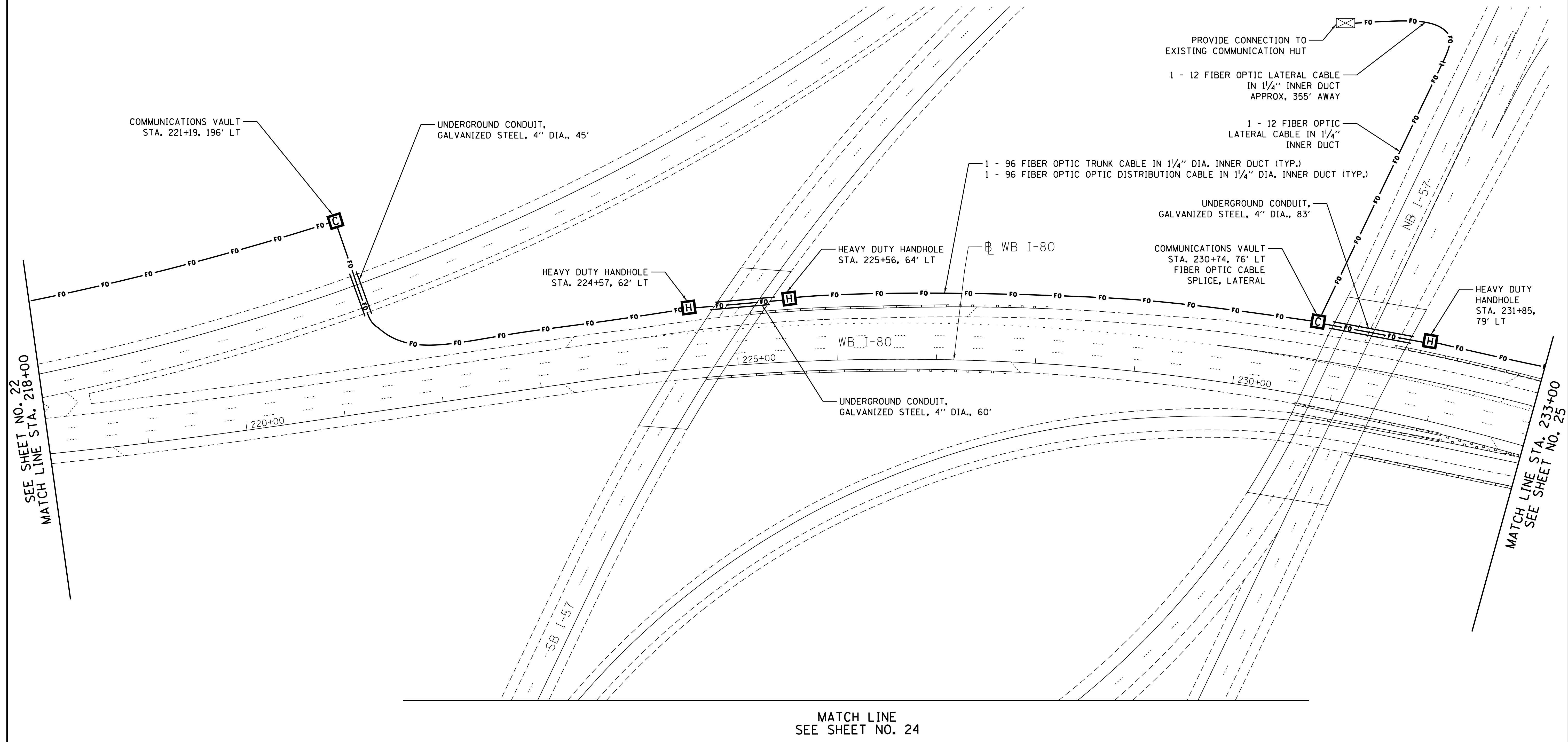
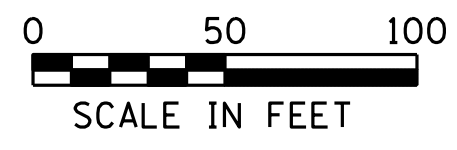
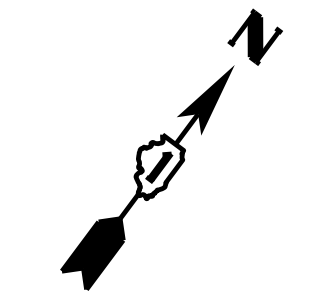
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50' SHEET 15 OF 19 SHEETS STA. 203+00 TO STA. 218+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	22
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

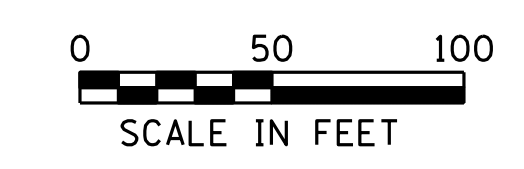
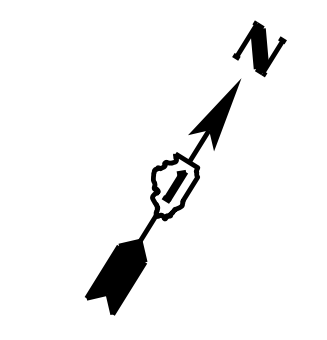
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE INSTALLATION PLAN I-80 (WB)

SCALE: 1"=50' SHEET 16 OF 19 SHEETS STA. 218+00 TO STA. 233+00

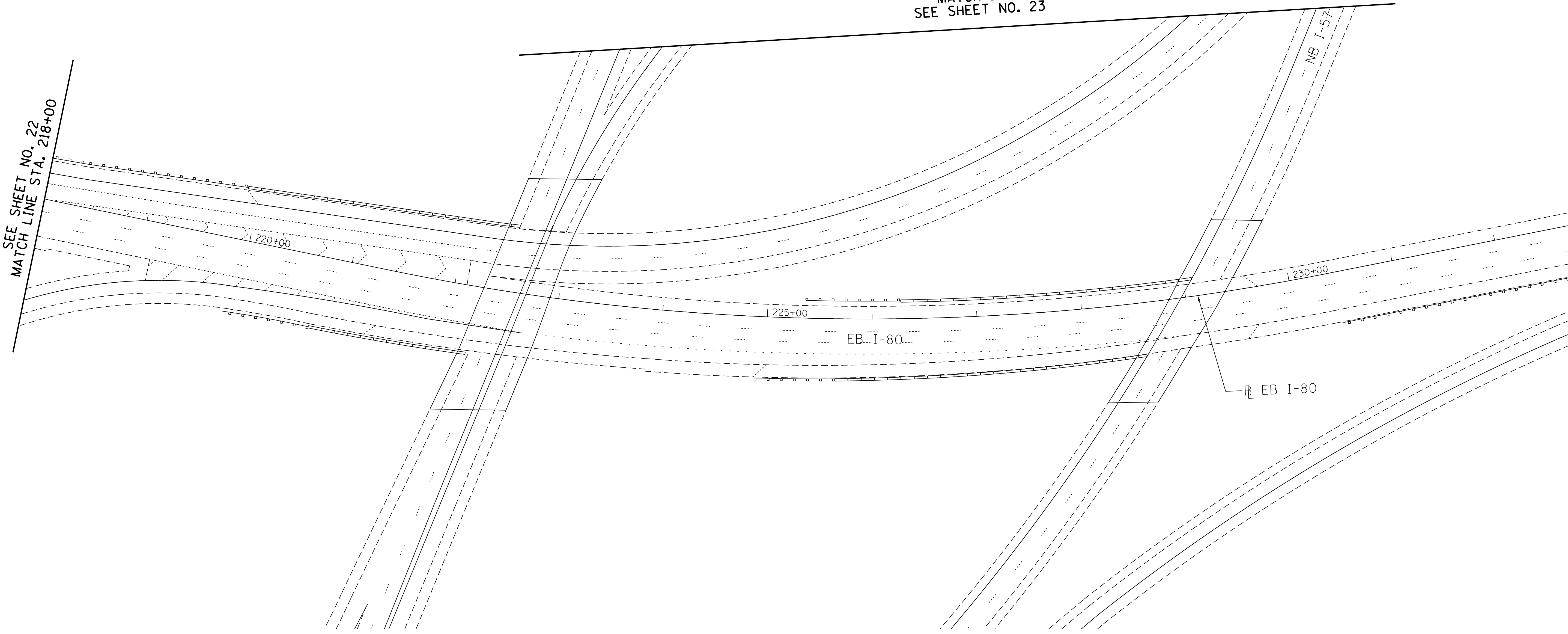
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	23
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



MATCH LINE  
SEE SHEET NO. 23

SEE SHEET NO. 22  
MATCH LINE STA. 218+00

MATCH LINE STA. 233+00  
SEE SHEET NO. 25



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

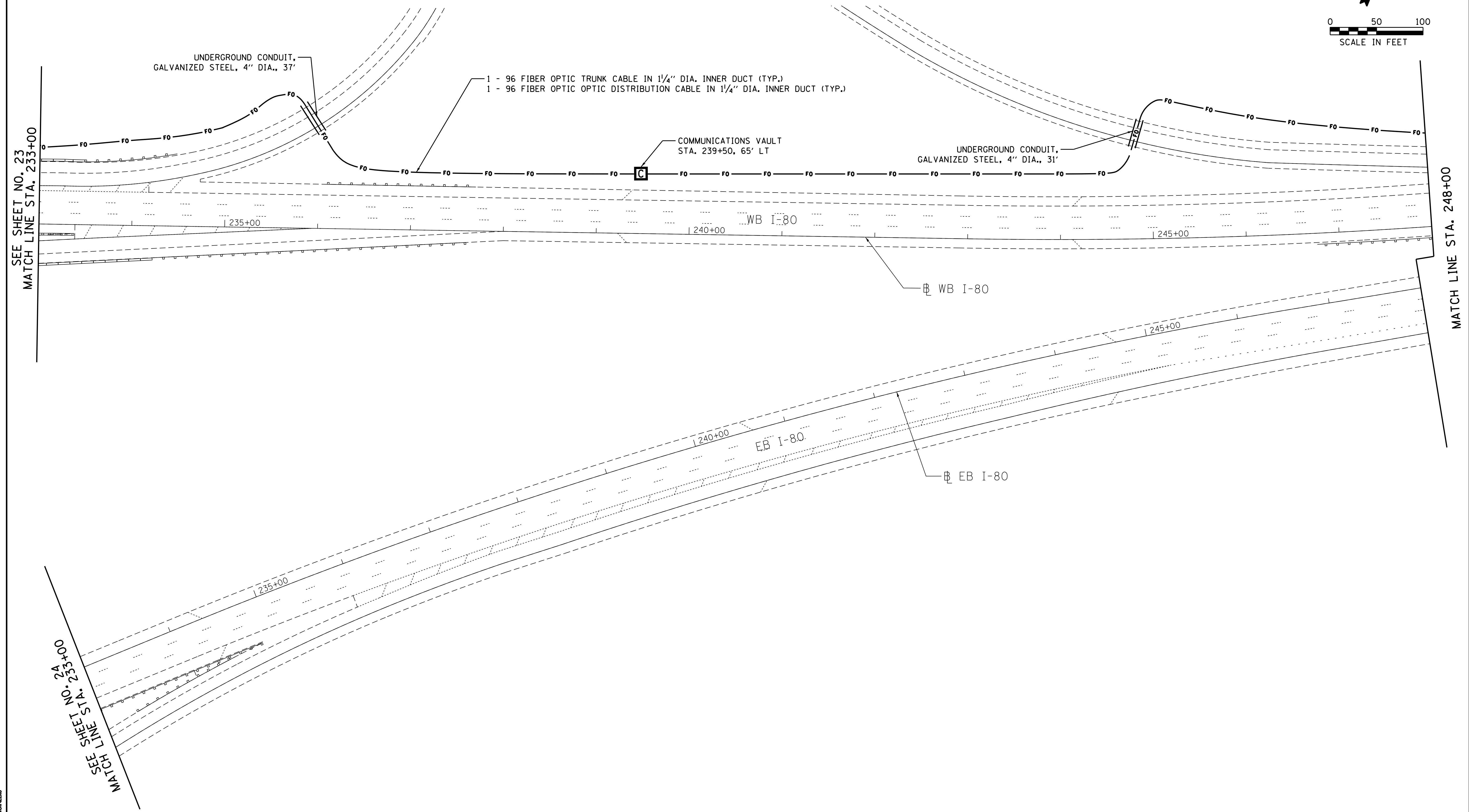
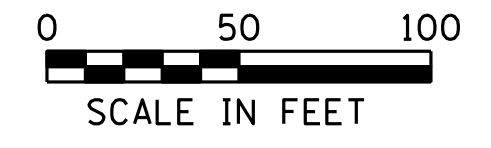
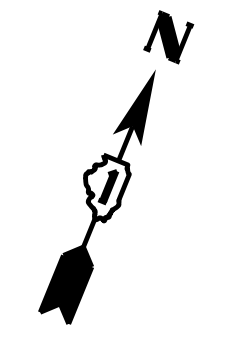
**FIBER OPTIC CABLE INSTALLATION PLAN I-80 (EB)**

SCALE: 1"=50' SHEET 17 OF 19 SHEETS STA. 218+00 TO STA. 233+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	24
CONTRACT NO. 60V81				

ILLINOIS FED. AID PROJECT





SEE SHEET NO. 23  
MATCH LINE STA. 233+00

MATCH LINE STA. 248+00

MATCH LINE STA. 233+00  
SEE SHEET NO. 23

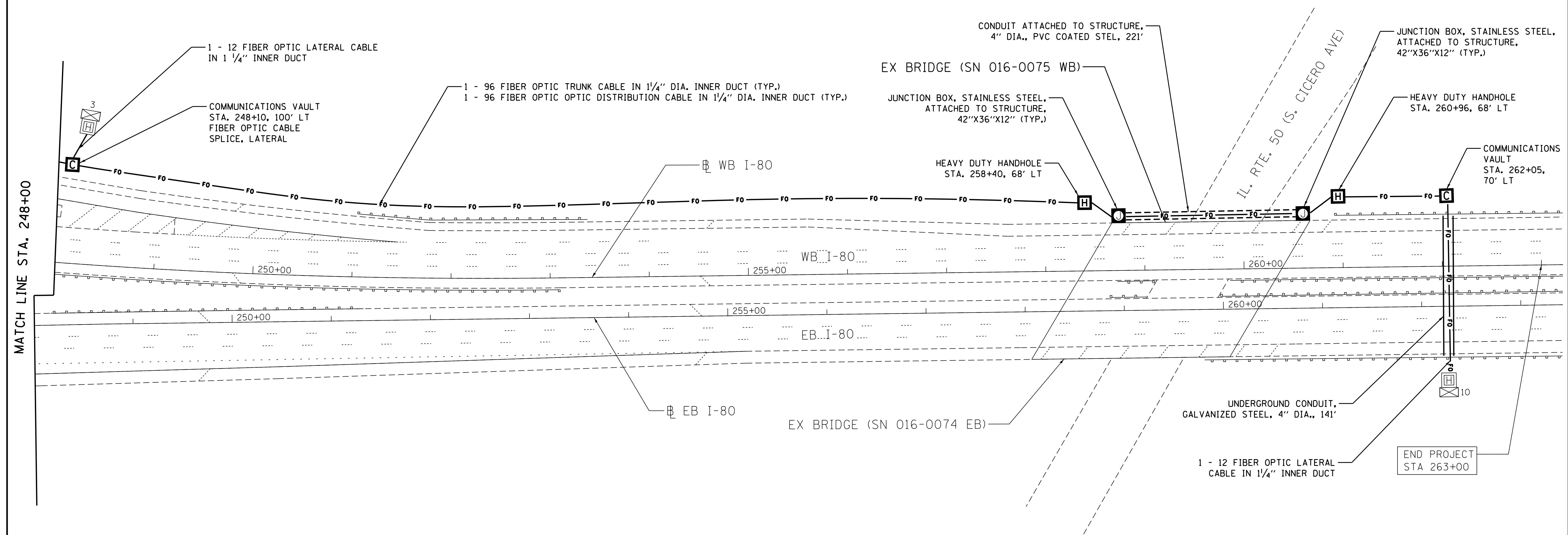
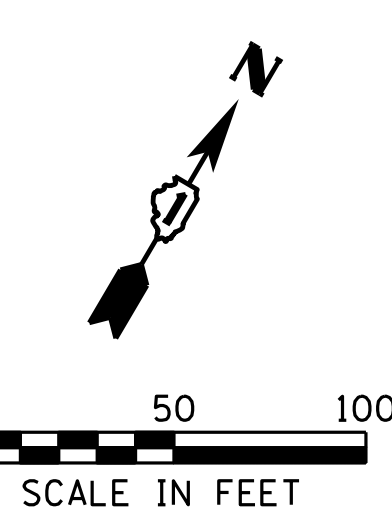
**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**  
SCALE: 1"=50' SHEET 18 OF 19 SHEETS STA. 233+00 TO STA. 248+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	25
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



**SINGH**  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS

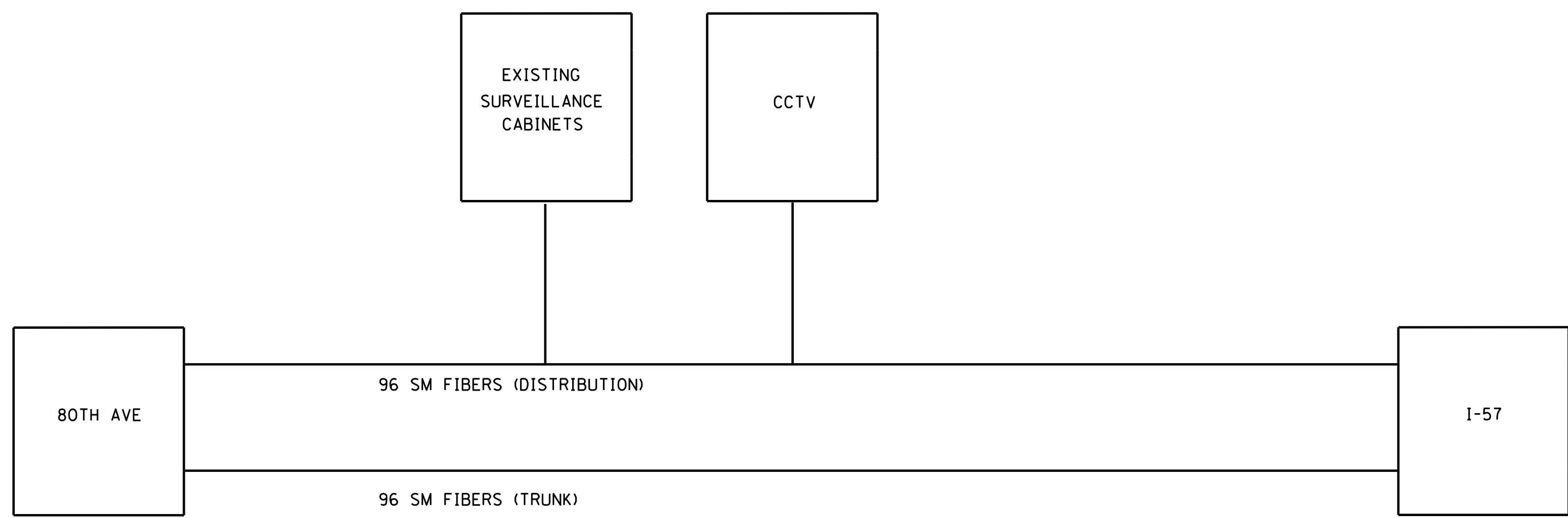
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	PLOT DATE = 12/19/2012	DATE - 12/21/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE INSTALLATION PLAN I-80**

SCALE: 1"=50'    SHEET 19 OF 19 SHEETS    STA. 248+00 TO STA. 263+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	26
CONTRACT NO. 60V81				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 12/19/2012		DATE - 12/21/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIBER OPTIC CABLE SINGLE LINE DIAGRAM**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	27
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V81	

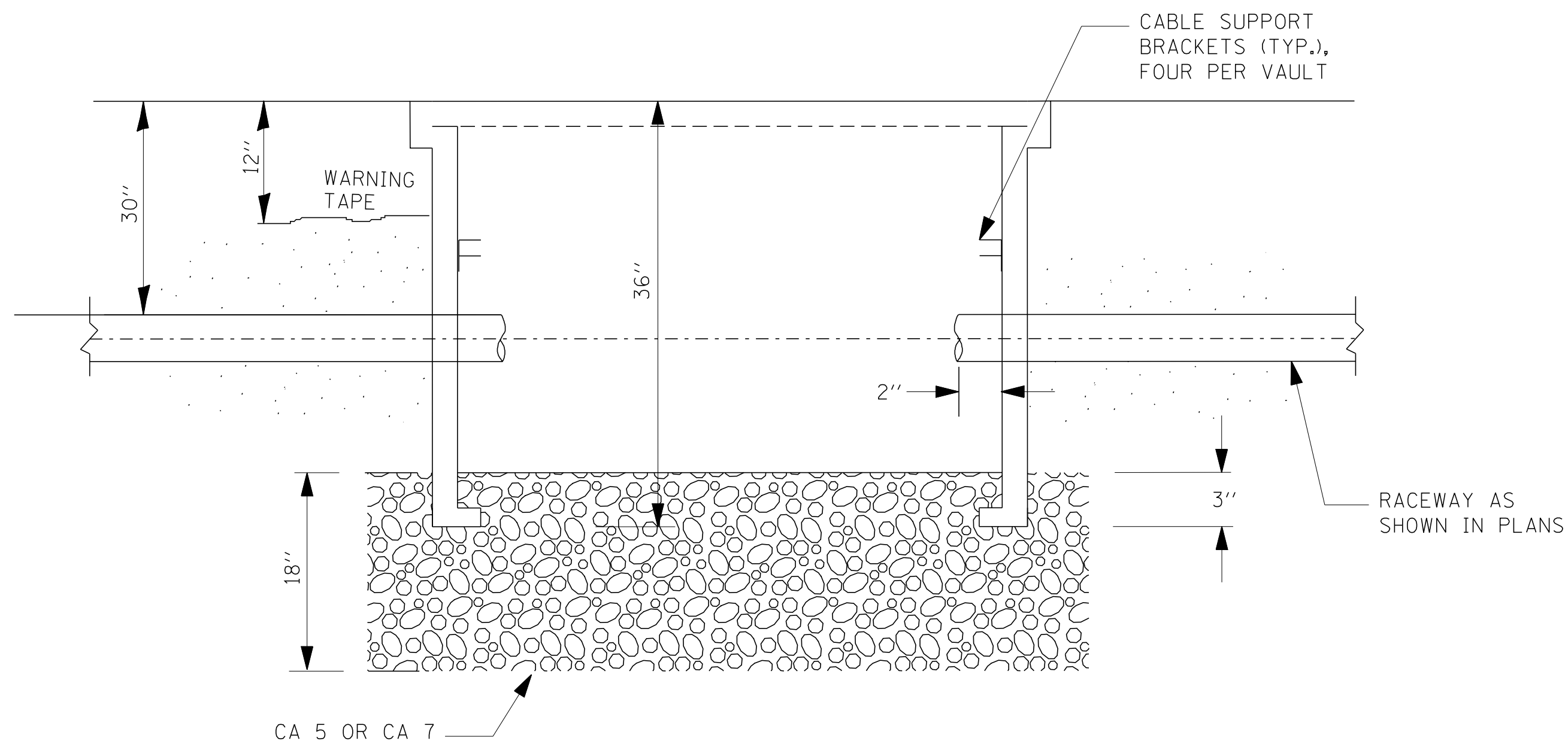
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PLOT DATE = 12/19/2012		DATE - 12/21/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

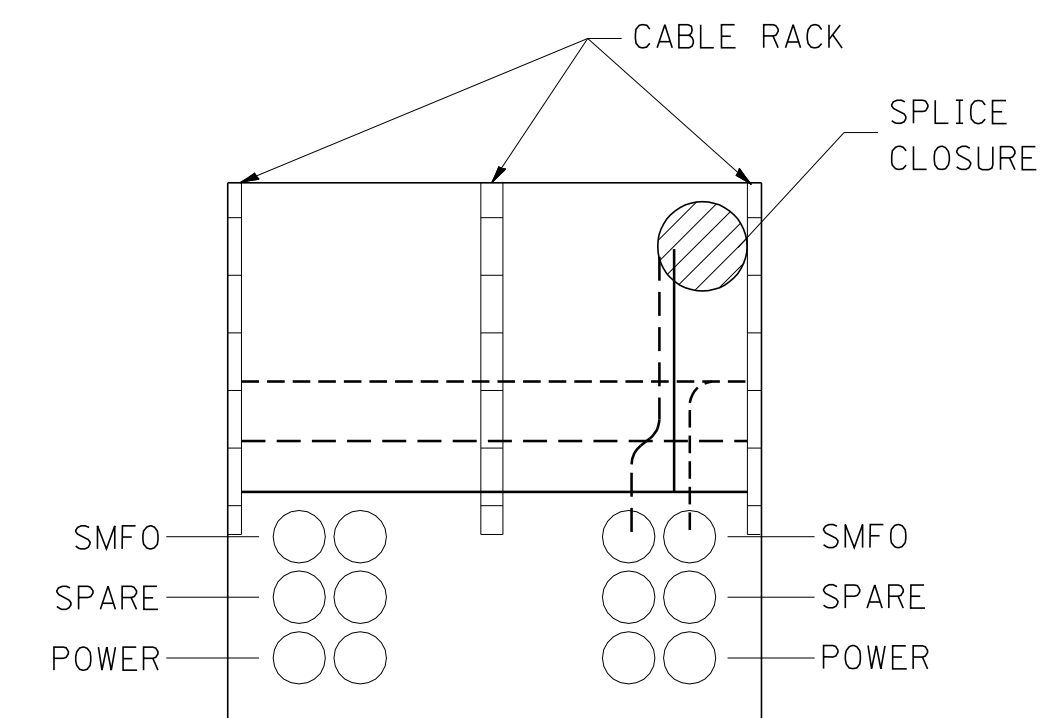
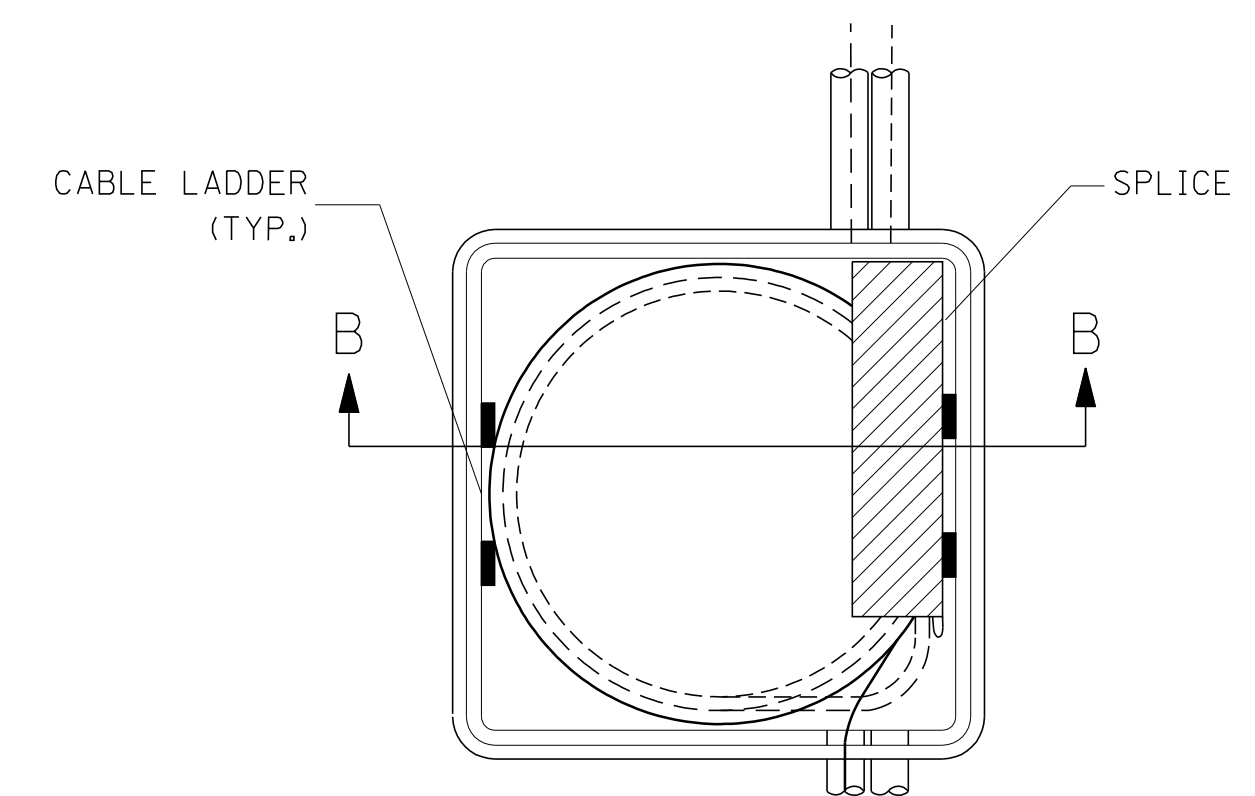
**BRIDGE CROSSING CONNECTION DETAILS - TYPICAL**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

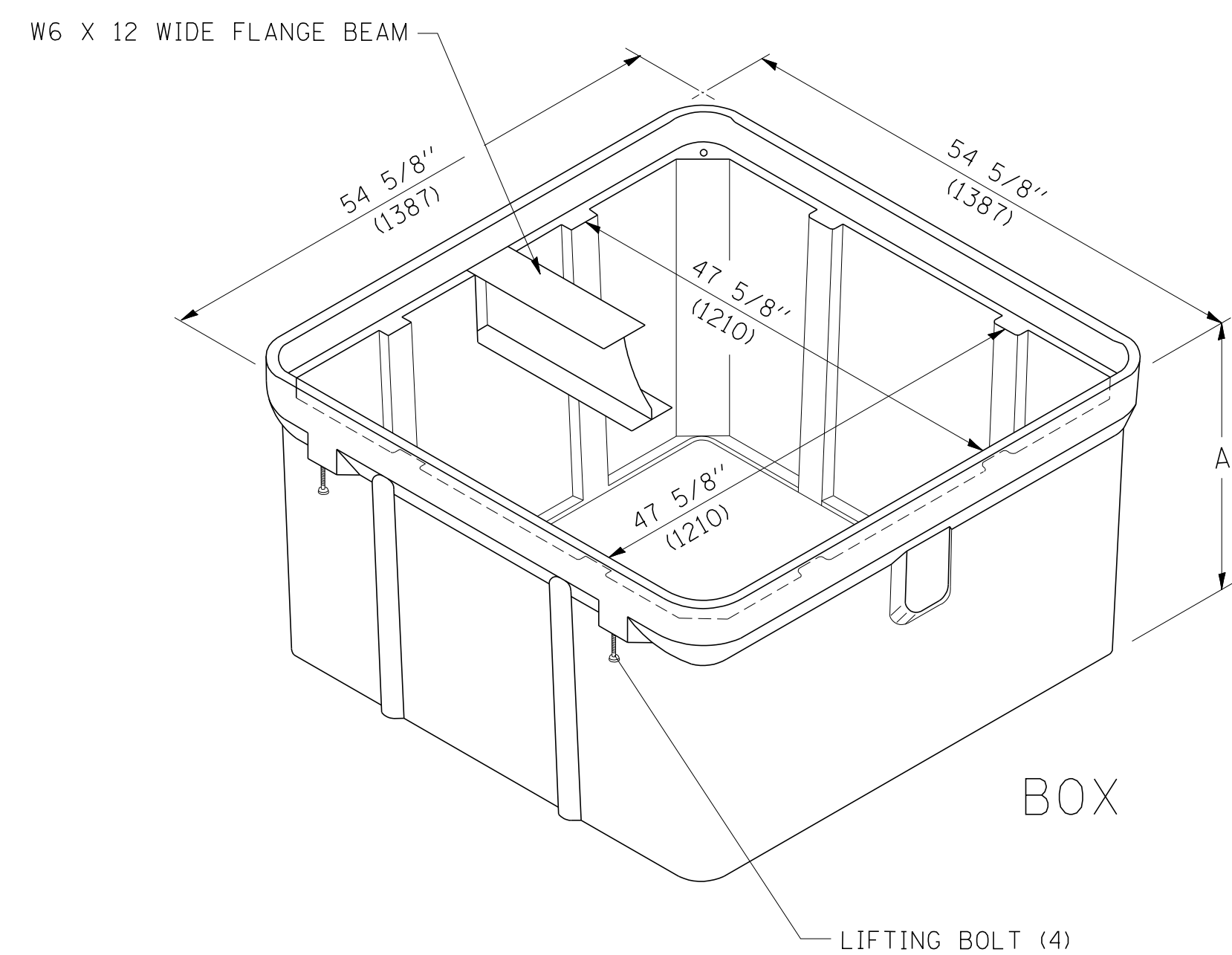
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	28
				<b>CONTRACT NO. 60V81</b>
ILLINOIS FED. AID PROJECT				



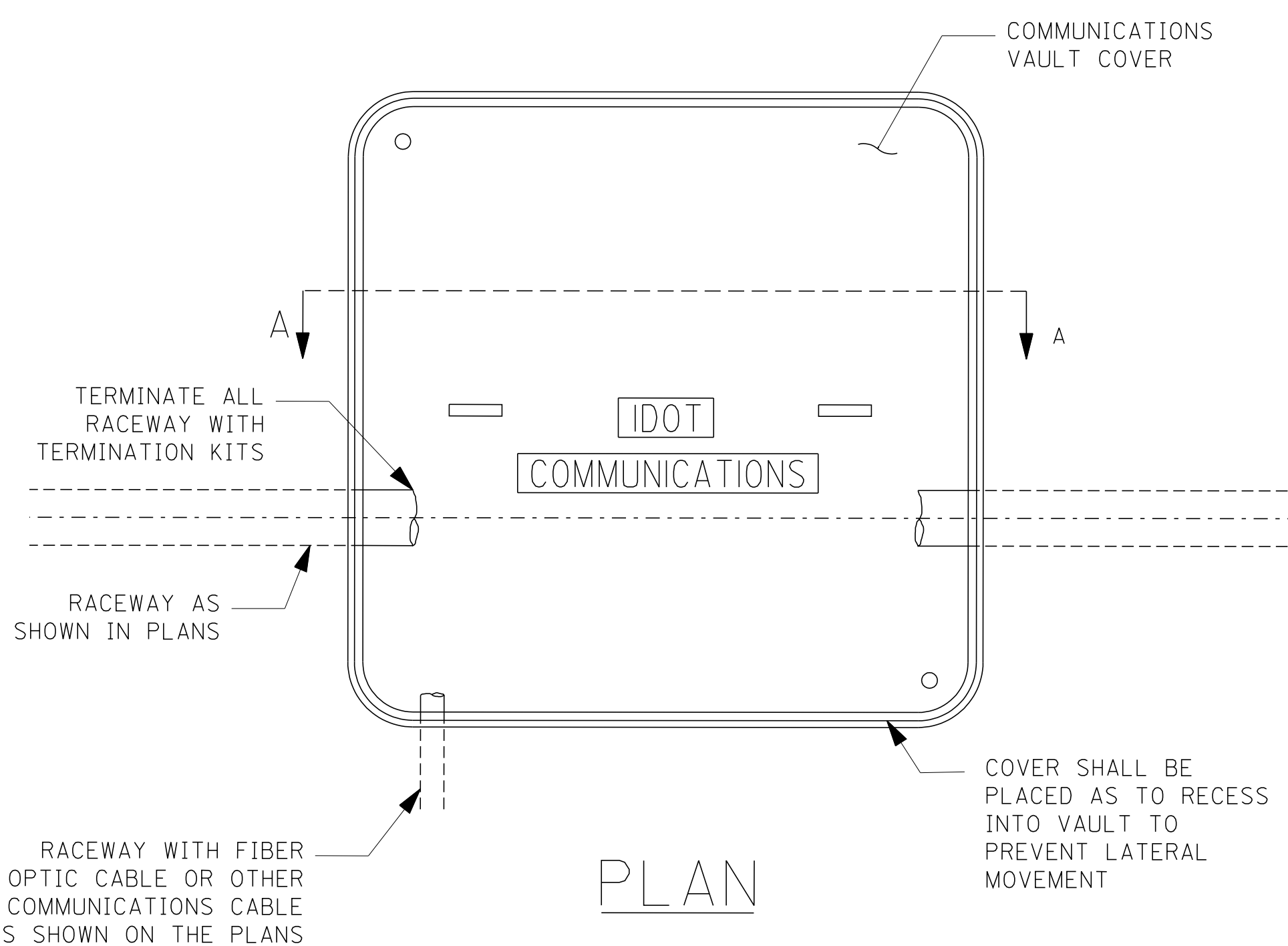
SECTION A-A



SECTION B-B



ISOMETRIC



PLAN

NOTES:

1. BOX SHALL HAVE AN OPEN BASE.
2. COVER SHALL WITHSTAND A 22,500/33,750 DESIGN/TEST LOADING AND SHALL LOCK.
3. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.
5. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE HANDHOLE MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

FILE NAME =	USER NAME = leysa	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>COMMUNICATIONS VAULT, COMPOSITE CONCRETE</b>			F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION			
TRUNK CABLE DESIGNATION		TCF-		DESTINATION			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER NO	FIBER NO	ASSIGNMENT
BLUE	Blue	1	1	SLATE	Blue	1	49
	Orange	2	2		Orange	2	50
	Green	3	3		Green	3	51
	Brown	4	4		Brown	4	52
	Slate	5	5		Slate	5	53
	White	6	6		White	6	54
	Red	7	7		Red	7	55
	Black	8	8		Black	8	56
	Yellow	9	9		Yellow	9	57
	Violet	10	10		Violet	10	58
	Rose	11	11		Rose	11	59
	Aqua	12	12		Aqua	12	60
ORANGE	Blue	1	13	WHITE	Blue	1	61
	Orange	2	14		Orange	2	62
	Green	3	15		Green	3	63
	Brown	4	16		Brown	4	64
	Slate	5	17		Slate	5	65
	White	6	18		White	6	66
	Red	7	19		Red	7	67
	Black	8	20		Black	8	68
	Yellow	9	21		Yellow	9	69
	Violet	10	22		Violet	10	70
	Rose	11	23		Rose	11	71
	Aqua	12	24		Aqua	12	72
GREEN	Blue	1	25	RED	Blue	1	73
	Orange	2	26		Orange	2	74
	Green	3	27		Green	3	75
	Brown	4	28		Brown	4	76
	Slate	5	29		Slate	5	77
	White	6	30		White	6	78
	Red	7	31		Red	7	79
	Black	8	32		Black	8	80
	Yellow	9	33		Yellow	9	81
	Violet	10	34		Violet	10	82
	Rose	11	35		Rose	11	83
	Aqua	12	36		Aqua	12	84
BROWN	Blue	1	37	BLACK	Blue	1	85
	Orange	2	38		Orange	2	86
	Green	3	39		Green	3	87
	Brown	4	40		Brown	4	88
	Slate	5	41		Slate	5	89
	White	6	42		White	6	90
	Red	7	43		Red	7	91
	Black	8	44		Black	8	92
	Yellow	9	45		Yellow	9	93
	Violet	10	46		Violet	10	94
	Rose	11	47		Rose	11	95
	Aqua	12	48		Aqua	12	96

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	PLOT DATE = 8/6/2010	DATE - 06-29-10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRUNK CABLE FIBER ASSIGNMENTS  
FAI 80 FROM 80TH AVE TO I-57**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	30
BE-2100		CONTRACT NO.	60V81	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	32
BE-2130		CONTRACT NO. 60V81		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

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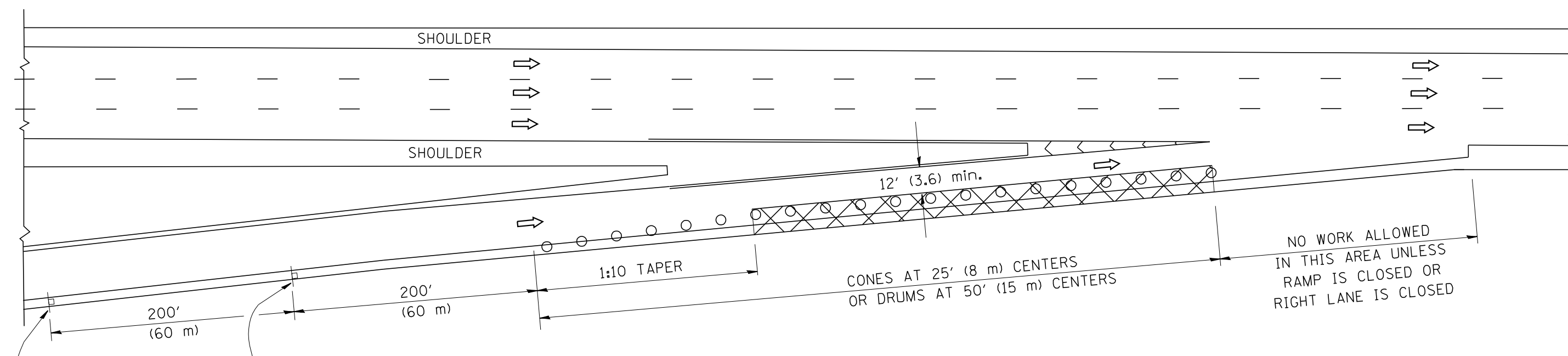
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

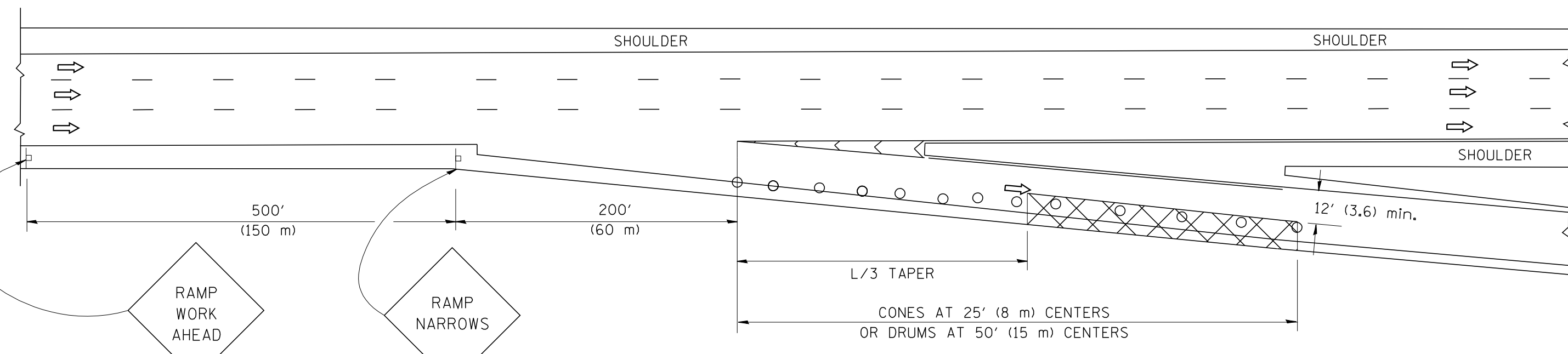
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	33
BE-2130		CONTRACT NO. 60V81		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PARTIAL RAMP CLOSURE DETAILS

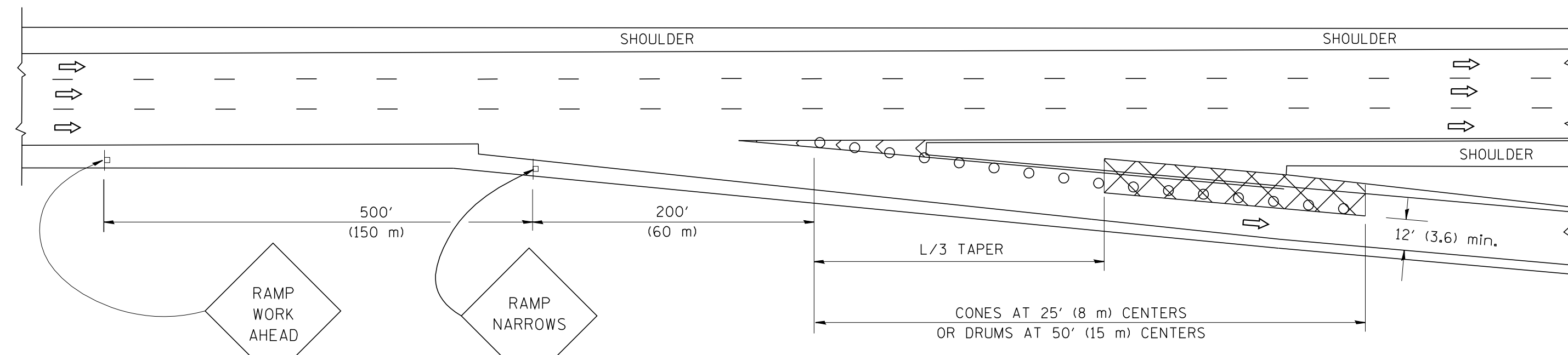
SHOULDER CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

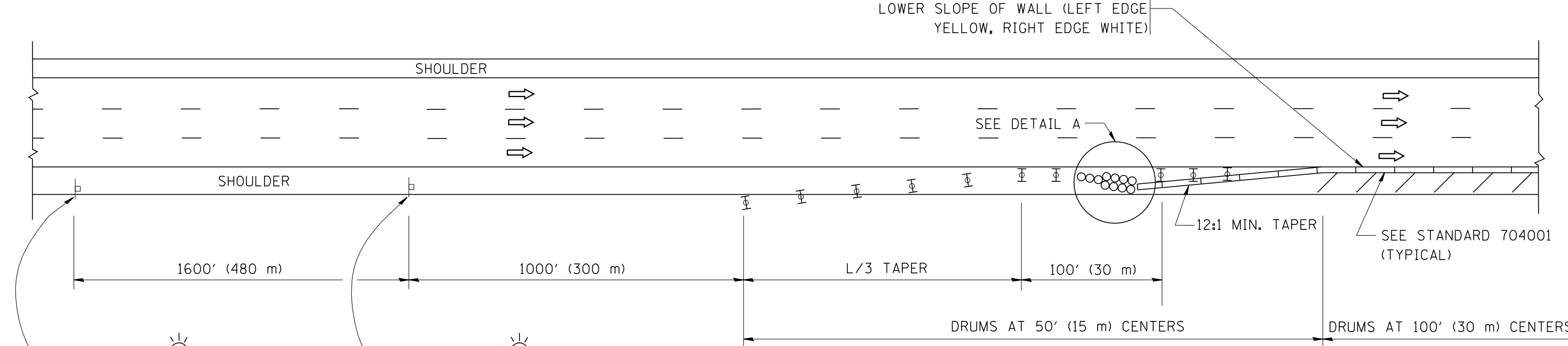
SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

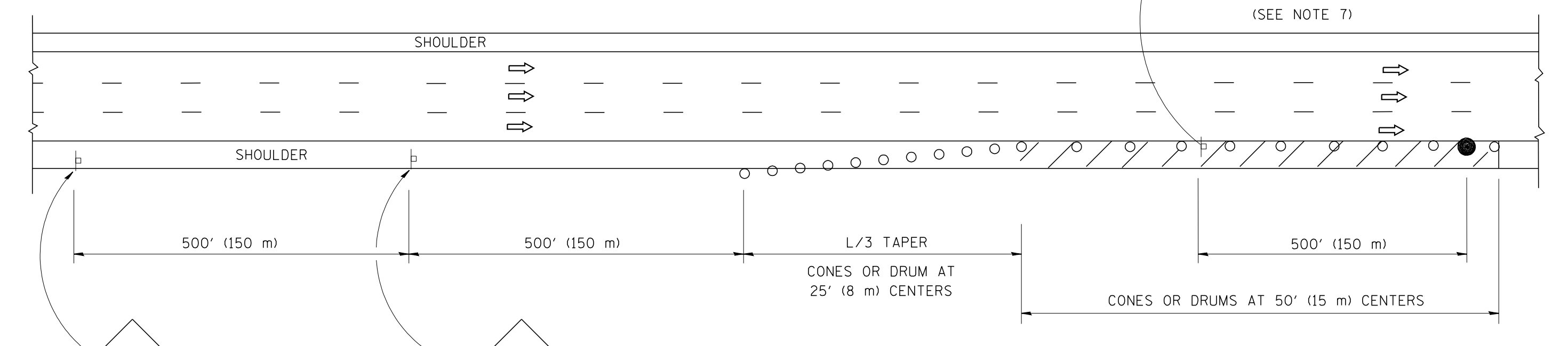
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC    ENGLISH L=0.65(W)(S)    L=(W)(S)
W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

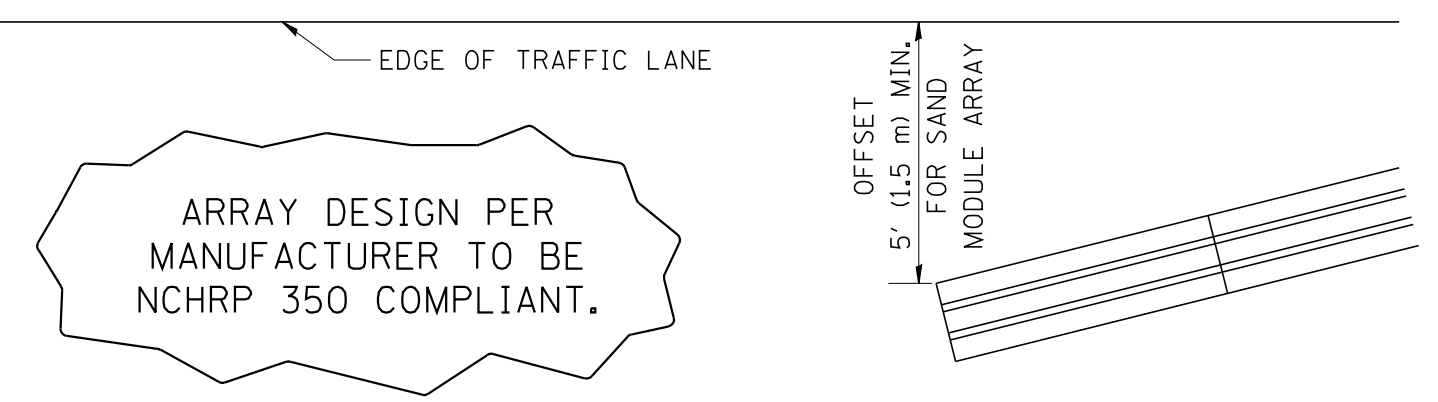


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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

FILE NAME = W:\dststd\22x34\17.dgn

USER NAME = lqjso  
PLOT SCALE = 50.0000' / IN.  
PLOT DATE = 1/26/2010

DESIGNED -  
DRAWN - D.W.S.  
CHECKED -  
DATE - 11-96

REVISED - 04-03  
REVISED - J.A.F. 12-06  
REVISED - S.P.B. 01-07  
REVISED - S.P.B. 12-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

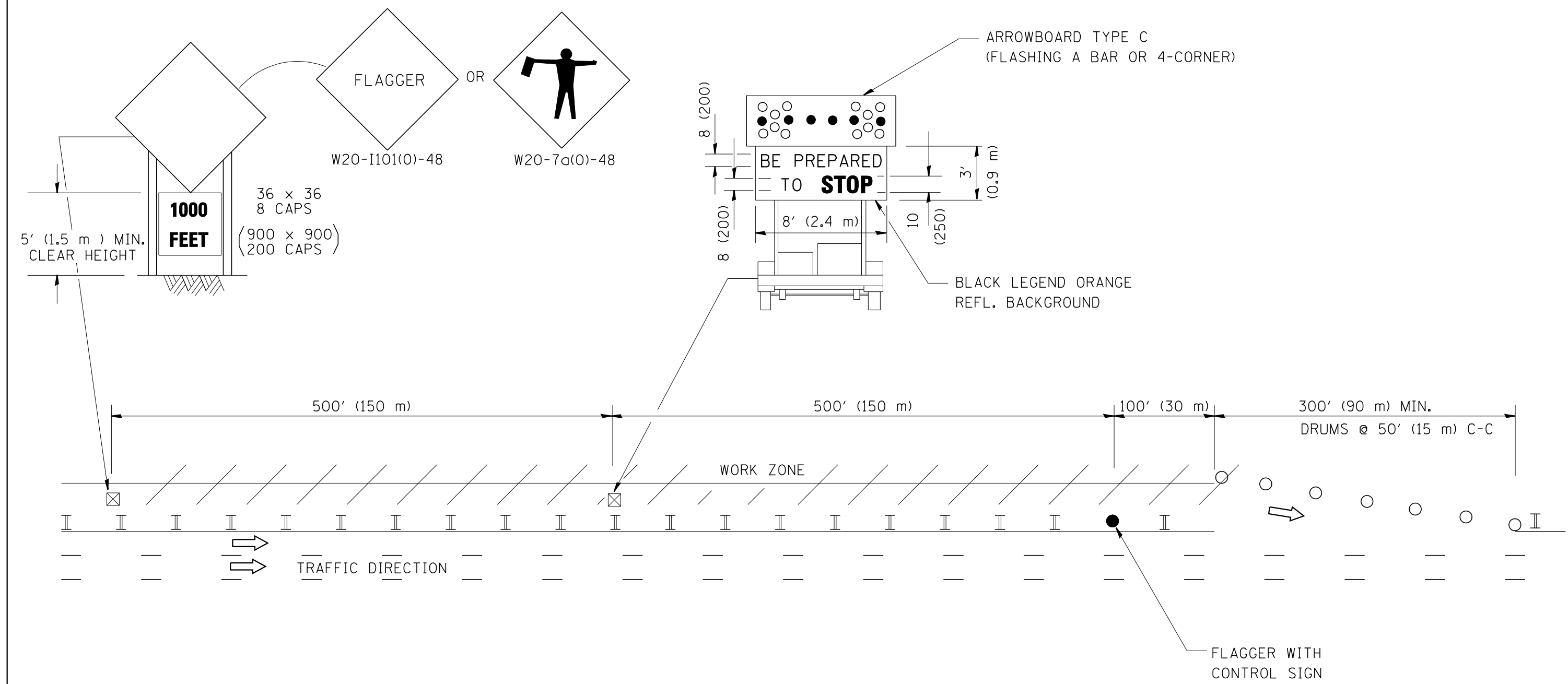
TRAFFIC CONTROL DETAILS FOR FREEWAY  
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

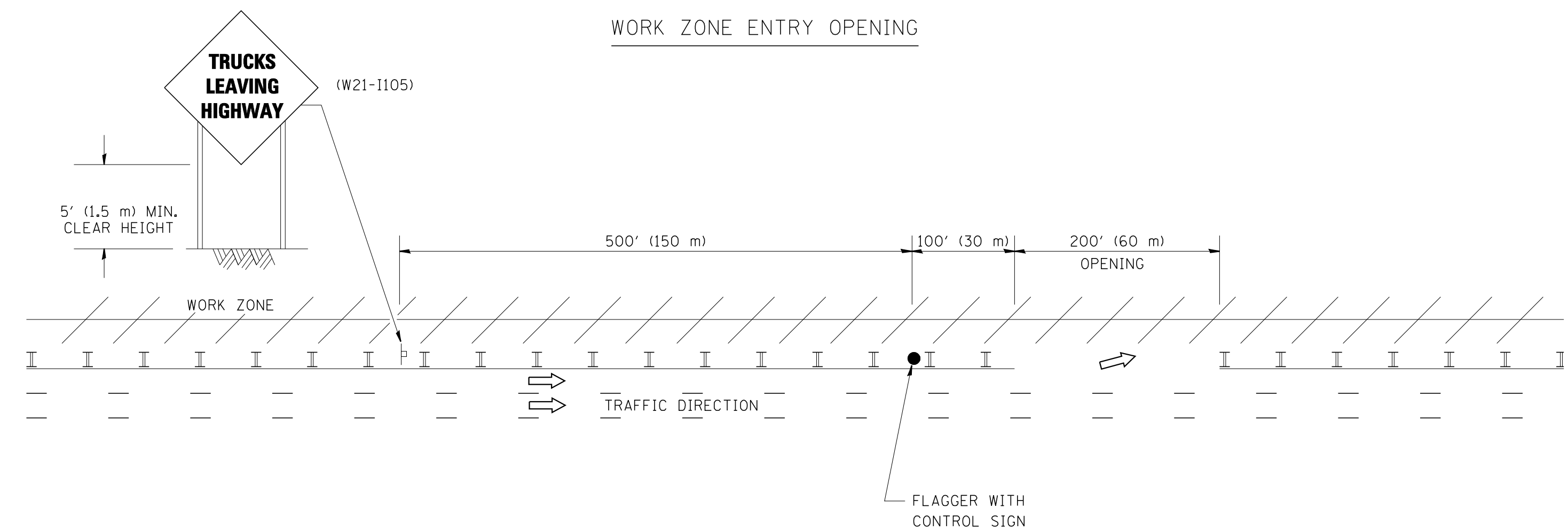
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	34
TC-17		CONTRACT NO. 60V81		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

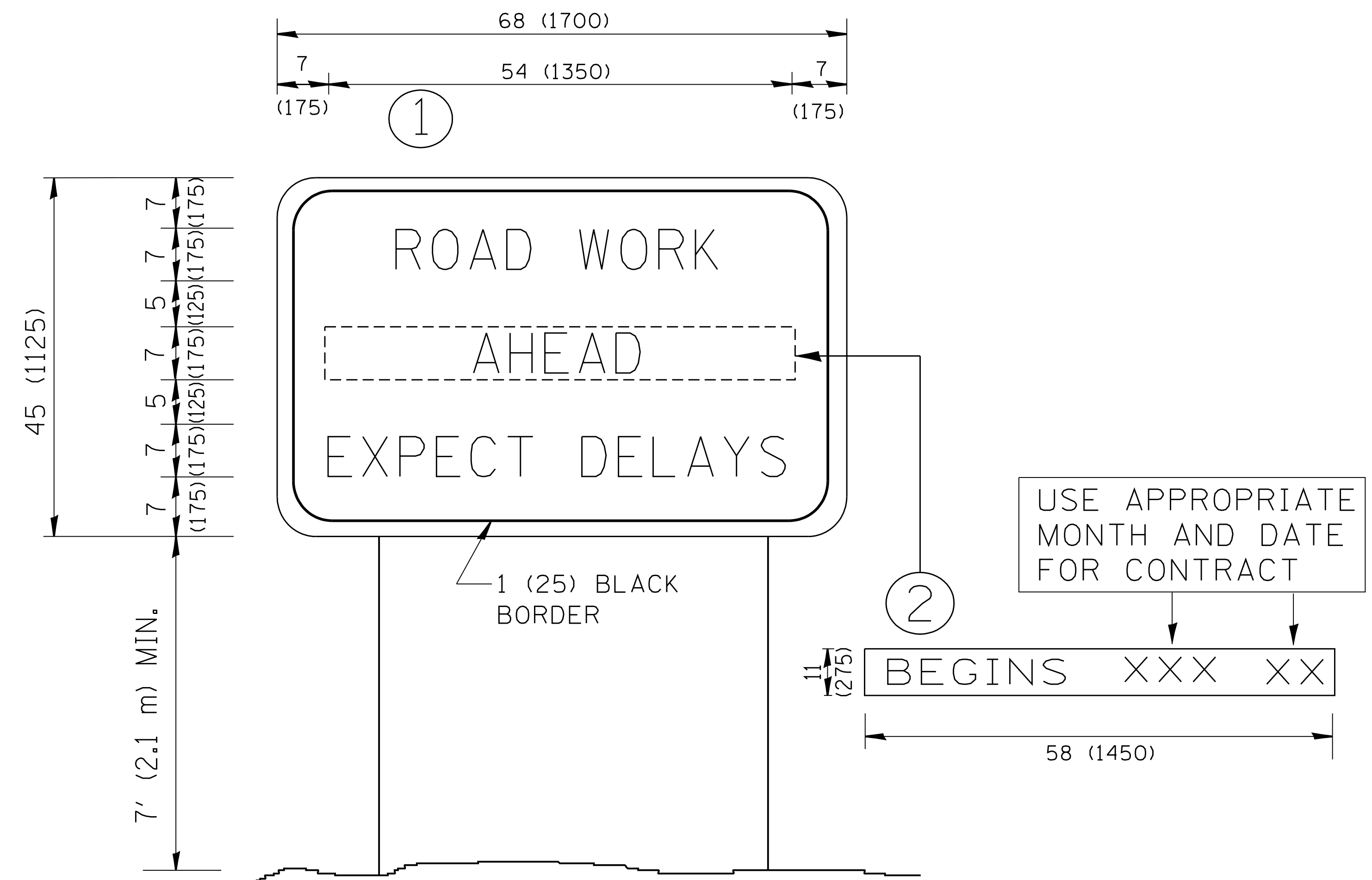
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		DRAWN -	REVISED - J.A.F. 02-06
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	PLOT DATE = 1/26/2010	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS  
AT WORK ZONE OPENINGS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	35
TC-18		CONTRACT NO. 60V81		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

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

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

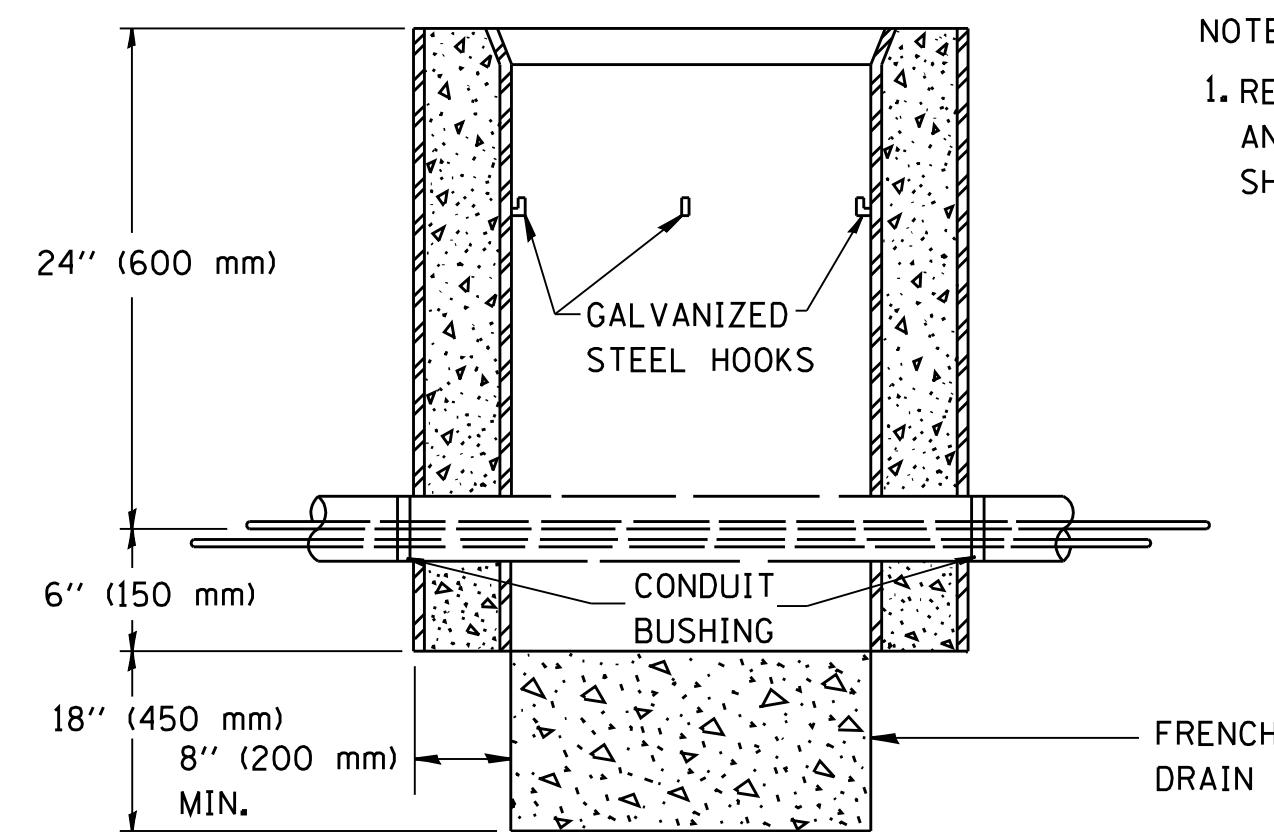
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		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

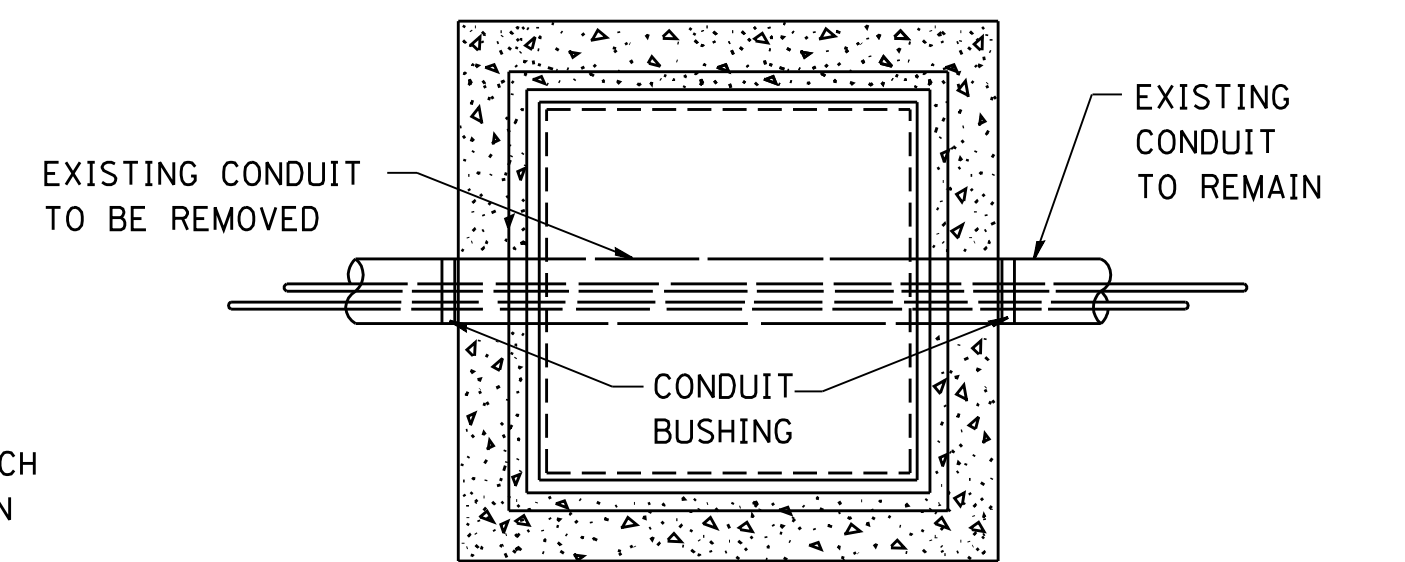
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F.A.I. RTE. 80	SECTION 2012-0711	COUNTY WILL/COOK	TOTAL SHEETS 37	SHEET NO. 36
TC-22		CONTRACT NO. 60V81		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



ELEVATION

PLAN

DETAIL  
HANDHOLE TO INTERCEPT EXISTING CONDUIT

FILE NAME = W:\diststd\22x34\ts03.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - 10-01-00
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2012-0711	WILL/COOK	37	37
TS-03		CONTRACT NO.	60V81	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				