

37 of 38

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-1	COOK	37	1
FED. ROAD DIST. NO. 1 ILLINOIS				

D-91-306-13
CONTRACT NO. 60W49

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED
IN THE CITY OF CHICAGO

TRAFFIC DATA

FAI 290/CONGRESS PARKWAY

ADT (2012) = 66,000

POSTED SPEED LIMIT 45 MPH

FAI 90/94

ADT (2012) = 191,300

POSTED SPEED LIMIT 45 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

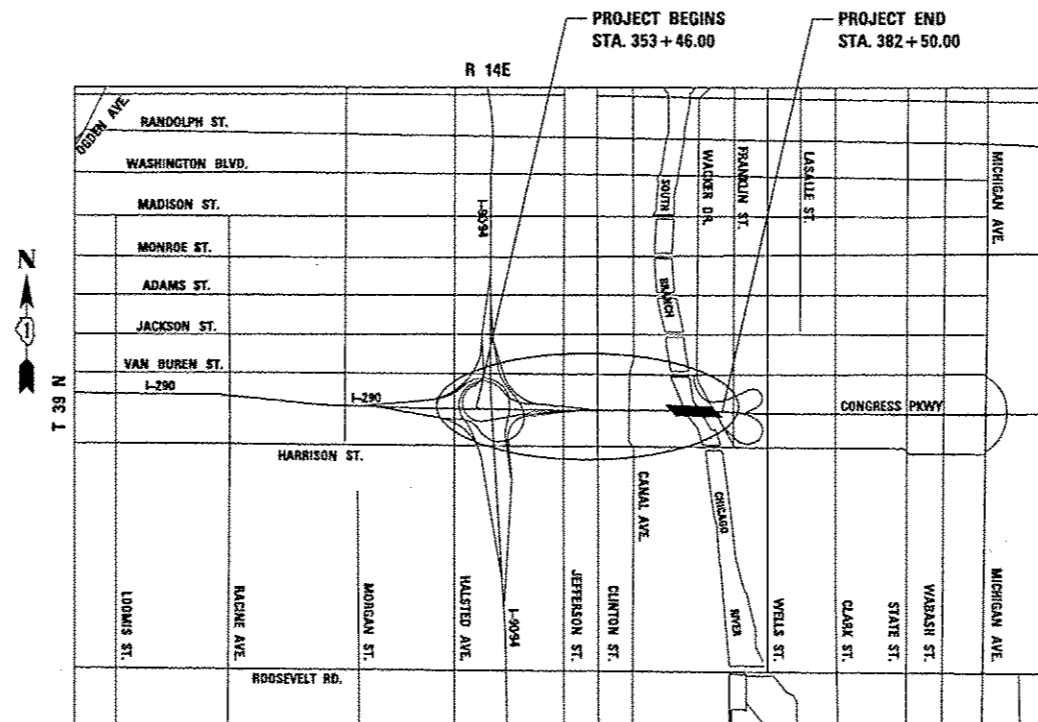
FAI 90/94 AT I-290/CONGRESS PARKWAY(CIRCLE INTERCHANGE)
& AT SOUTH BRANCH CHICAGO RIVER

SURVEILLANCE
SECTION 2013-026-1
COOK COUNTY
C-91-306-13

PROJECT NO.: ACNHPP-DDOS (956)



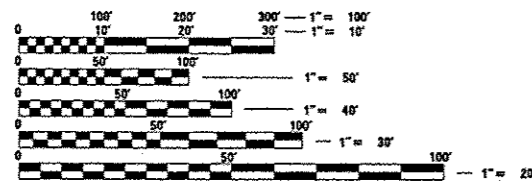
LOCATION OF SECTION INDICATED THUS: -



LOCATION MAP

SCALE: 1 IN = 2000 FT

TOTAL GROSS AND NET LENGTH OF PROJECT = 2904 FT. = .550 MI



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.

C.U.A.N.
DIGGER - CHICAGO UTILITY ALERT NETWORK
1-312-744-7000

CONTRACT NO. 60W49

**PARSONS
BRINCKERHOFF**

230 WEST MONROE STREET, SUITE 900
CHICAGO, ILLINOIS 60606
TEL: 312-782-8150 FAX: 312-782-1684

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *Dec 14 2013*

John F. ...
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

Dec 6 2013
John D. Baranzelli, PE, PE
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 6 2013
Omer Osman, PE, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



AHMAD M. HAMMAD, S.E., P.E.
LICENSE NO.: 081-005467
EXPIRES: November 30, 2014
DATE:

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DESIGN - CONSULTANT SERVICES, DISTRICT ONE - BRIAN KUTTAPROJECT MANAGER 847-705-4431

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STATE STANDARDS

- | | |
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| 701101-04 | 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 |
| 701400-07 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701401-08 | LANE CLOSURE, FREEWAY/EXPRESSWAY |
| 701422-06 | LANE CLOSURE MULTI LANE 45-55MPH |
| 701411-08 | LANE CLOSURE MULTI LANE - ENTR OR EXIT RAMP 45MPH+ |
| 701901-03 | TRAFFIC CONTROL DEVICES |
| 701426-06 | LANE CLOSURE, MULTI LANE INTERMITTENT OR MOVING OPERATION FOR SPEEDS ≥ 45 MPH |
| 701428 | TRAFFIC CONTROL, SETUP AND REMOVAL FREEWAY/EXPRESSWAY |

DISTRICT 1 STANDARDS - Plan Sheets 32-36

- | | |
|-------|---|
| TC-9 | SINGLE AND MULTI-LANE WEAVE |
| TC-10 | TRAFFIC CONTROL AND PROJECTION FOR SIDEROADS, INTERSECTIONS AND DRIVEWAYS |
| TC-17 | PARTIAL RAMP OR SHOULDER CLOSURE |
| TC-18 | SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE |
| TC-22 | ARTERIAL ROAD INFORMATION SIGN |

GENERAL NOTES:

1. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION=CCD + 579.19.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
3. 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, 2014, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

GENERAL NOTES CONT'D:

4. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR B11 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
5. 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.
6. THE CHICAGO TRANSIT AUTHORITY HAS EXISTING AND/OR ABANDONED FACILITIES IN THE AREA. SUCH FACILITIES MAY INCLUDE ELEVATED RAIL TRACKS, SUBWAYS, UNDERGROUND DUCT LINES, AND/OR FORMER STREETCAR TRACKS. COPIES OF DRAWINGS WILL BE SUBMITTED TO THE OUC OFFICE. CAUTION SHOULD BE EXERCISED WHEN EXCAVATING NEAR STREETCAR TRACKS. MEMBERS OF THE CHICAGO AREA JOINT ELECTROLYSIS COMMITTEE MAY USE STREETCAR TRACKS AND NEGATIVE CABLE. PLEASE CONTACT MR. YOUSEF TABIB OF COMED BEFORE CUTTING OR REMOVING ANY BURIED STREETCAR RAILS. HE MAY BE REACHED AT (630) 576-6952. THE CONTRACTOR SHALL ALSO COORDINATE WITH MR. DAVID HEARD AT 312-681-3862 FOR TRANSIT TUNNELS AND ADJACENT APPURTENANCES.
7. 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.
8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
9. 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.
10. ALL FRAMES, GRATES, PAVEMENT, FENCES, DELINEATORS AND APPURTENANCES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
11. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT www.idotilts.com TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND ONE WEEK IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE.
12. THE CONTRACTOR SHALL CONTACT THE EXPRESSWAYS TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AND THE ARTERIALS SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. ANY EXCAVATION REQUIRED ON THE PROJECT FROM THE EXISTING BRIDGE HOUSES TO THE WEST SIDE OF DES PLAINES STREET WILL REMAIN ON THE PROJECT SITE, TAKEN TO THE CIRCLE INTERCHANGE AT A LOCATION AS DIRECTED BY THE ENGINEER AND GRADED ACCORDINGLY.
19. EXCAVATION WEST OF DES PLAINES FOR SURVEILLANCE TOWERS, TRENCHES AND OTHER EXCAVATION WILL BE HANDLED AS POTENTIAL SPECIAL WASTE AS STIPULATED IN THE SUMMARY OF QUANTITIES.
20. A FIELD OFFICE IS NOT INCLUDED AS PART OF THIS PROJECT. THE CONTRACTOR WILL BE PROVIDED OFFICE SPACE AT THE IDOT FACILITY AT 900 SOUTH DES PLAINES STREET, CHICAGO IL. 60607.

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

TRAFFIC CONTROL PLAN NOTES:

1. TRAFFIC CONTROL AND PROTECTION SHALL CONSIST OF SHOULDER AND LANE CLOSURES AND RAMP TAPER MODIFICATIONS, SIDE ROAD LANE REDUCTIONS AND PARKING PROHIBITIONS TO ALLOW WORK ALONG ROADWAYS, 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
701400-07	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-08	LANE CLOSURE, FREEWAY/EXPRESSWAY
701422-06	LANE CLOSURE MULTI LANE 45-55MPH
701411-08	LANE CLOSURE MULTI LANE - ENTR OR EXIT RAMP 45MPH+
701426-02	LANE CLOSURE, MULTI LANE INTERMITTENT OR MOVING OPERATION FOR SPEEDS ≥ 45 MPH
701428	TRAFFIC CONTROL, SETUP AND REMOVAL FREEWAY/EXPRESSWAY
TC-9	SINGLE AND MULTI-LANE WEAVE
TC-10	TRAFFIC CONTROL AND PROJECTION FOR SIDEROADS, INTERSECTIONS AND DRIVEWAYS
TC-17	PARTIAL RAMP OR SHOULDER CLOSURE
TC-18	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE
TC-22	ARTERIAL ROAD INFORMATION SIGN
701901-02	TRAFFIC CONTROL DEVICES

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 100' INTERVALS ALONG WORK ZONES, AT 50' INTERVALS IN CURVES, AND AT 50' INTERVALS IN TAPER SECTIONS AS INDICATED IN THE IDOT HIGHWAY STANDARDS OR AS DIRECTED BY THE ENGINEER.
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 ERRECTED 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.
15. LOCAL ROADS, DRIVEWAYS AND PROPERTY ACCESS DRIVES ADJACENT TO CONGRESS PARKWAY (S. TILDEN STREET, WACKER DRIVE) MUST REMAIN OPEN TO TRAFFIC AT ALL TIMES DURING CONSTRUCTION. SHOULD A TEMPORARY CLOSURE BE NECESSARY, THE CONTRACTOR SHALL NOTIFY THE STATE AND THE AFFECTED PROPERTY OWNER TWENTY-FOUR (24) HOURS IN ADVANCE OF SUCH CLOSURE. CONSTRUCTION ACTIVITIES SHALL BE EXPEDITED AND ACCESS RESTORED WITHIN AN ADEQUATE TIME FRAME AS DIRECTED BY THE ENGINEER.

Rev.

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USER NAME * postid	DESIGNED - SN	REVISED -
FILE NAME	DRAWN - DCP	REVISED -
PLOT SCALE * NONE	CHECKED - SN	REVISED -
PLOT DATE * 10/28/2013	DATE - 10/18/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

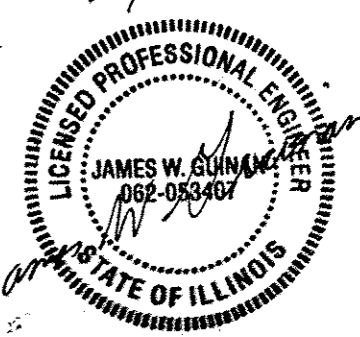
CCTV SYSTEM, I-90/4 TO CONGRESS PARKWAY
INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS
SCALE: NONE SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-1	COOK	37	2
CONTRACT NO. 60W49			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

A. ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF N.E.C., AASHTO, AND LOCAL ORDINANCES AND REGULATIONS. COORDINATE ALL ELECTRICAL WORK WITH IDOT AND ALL OTHER CONTRACTORS ON THE SITE.
2. INDOOR ELECTRICAL CONTROL CABINETS SHALL HAVE A MINIMUM NEMA-12 RATING OR AS INDICATED. ALL OUTDOOR CABINETS SHALL BE STAINLESS STEEL TYPE 316, AND SHALL BE NEMA 4X RATED UNLESS OTHERWISE NOTED.
3. LOCATIONS AND DIMENSIONS OF ELECTRICAL EQUIPMENT AND ASSOCIATED DEVICES AND CONDUIT RUNS ARE APPROXIMATE BASED ON EXISTING CONDITIONS AND BEST AVAILABLE PERTINENT INFORMATION AND PLANS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND PROPOSED EQUIPMENT DIMENSIONS AS PART OF THE CONSTRUCTION AND SHOP DRAWING SUBMITTAL PROCESS. AS-BUILT-DRAWINGS SHALL BE BASED ON APPROVED SHOP DRAWINGS AND ON ACTUAL FIELD SURVEYS, MEASUREMENTS, AND APPROVED INSTALLED EQUIPMENT ONLY.
4. FURNISH AND INSTALL ALL REQUIRED CONDUIT, WIRE AND CABLE, FITTINGS, BOXES, HARDWARE, ETC. IN ORDER TO MAKE A COMPLETE ELECTRICAL/ COMMUNICATION SYSTEM READY FOR OPERATION. DRAWINGS FOR APPROVAL SHOWING LAYOUT DETAILS SHALL BE SUBMITTED PRIOR TO ANY INSTALLATION WORK.
5. ALL CONDUIT AND WIRING FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW AND MEET NEC AND AASHTO CODE REQUIREMENTS. EXISTING WIRING NOT USED SHALL BE DISCONNECTED AND CLEARLY MARKED AS SUCH. CONDUIT NOT REMOVED AND NOT USED SHALL BE CAPPED. ALL CONDUIT AND FITTINGS SHALL BE HOT-DIP GALVANIZED RIGID STEEL. ADDITIONALLY, ALL EXTERNAL CONDUITS SHALL BE PVC-COATED. MOUNT ALL CONDUIT RUNS ON PVC-COATED GALVANIZED STEEL UNISTRUT (KINDORF) CHANNELS OR APPROVED EQUAL. MOUNTING HARDWARE SHALL BE STAINLESS STEEL, TYPE 316.
6. EXACT CONDUITS, JUNCTION AND PULL BOX LOCATIONS, MOUNTING HARDWARE AND SUPPORTS, AND STUB-UP LOCATIONS ARE TO BE DETERMINED BASED ON FIELD CONDITIONS AS SPECIFIED AND SHOWN ON THE PLANS.
7. PROVIDE EXPANSION AND DEFLECTION CONDUIT FITTINGS OF THE APPROVED TYPE AT THE LOCATIONS WHERE CONDUIT PASSES THROUGH STRUCTURAL EXPANSION JOINTS OTHER CRITICAL LOCATIONS, OR MINIMUM EVERY 300 FEET ON STRAIGHT RUNS.
8. PITCH CONDUIT RUNS TOWARD PULL BOXES TO PREVENT MOISTURE ACCUMULATION. ON LOWEST POINT OF ALL BOXES AND OTHER ELECTRICAL EQUIPMENT SUBJECT TO WATER ACCUMULATION, PROVIDE NECESSARY DRAIN OPENINGS, FITTINGS, CONDUITS, ETC.
9. PERFORM ALL CUTTING, DRILLING AND CORE DRILLING AS NECESSARY TO PROVIDE PENETRATIONS THROUGH WALLS AND FLOORS FOR ELECTRICAL INSTALLATION WORK. CORE DRILL DIAMETER SHALL NOT BE MORE THAN 25 PERCENT LARGER THAN THE CONDUIT OUTSIDE DIAMETER. ALL CONDUITS PENETRATING WALLS AND FLOORS SHALL BE INSTALLED IN A GALVANIZED STEEL SLEEVE WITH FLOOR SUPPORTS. PATCH AND RESTORE SURROUNDING AREA OF PENETRATIONS TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. OPENINGS THROUGH SLAB AND WALL FOR CONDUITS SHALL BE FIRE STOPPED IN AN APPROVED MANNER UTILIZING "3M" COMPANY SEALING SYSTEM *7504 SERIES OR APPROVED EQUAL.
10. ALL EQUIPMENT CABINETS SHALL BE FURNISHED WITH ONE THERMOSTATICALLY-CONTROLLED STRIP HEATER, AND 125V, 20A RATED DUPLEX RECEPTACLE.
11. CONTRACTOR SHALL NOTIFY IDOT FOR EXISTENCE OF ASBESTOS AFFECTED BY THE INSTALLATION OF ELECTRICAL AND CONTROL SYSTEMS.
12. FURNISH AND INSTALL TAGS FOR CONDUITS AND CABLES TO BE INSTALLED UNDER THIS CONTRACT. TAG IDENTIFICATIONS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS, OR AS DIRECTED BY THE ENGINEER.
13. PRIOR TO COMMENCEMENT OF WORK, SUBMIT DETAILED STAGING PLANS TO THE ENGINEER FOR APPROVAL. COORDINATE WITH THE ENGINEER ALL CONSTRUCTION ACTIVITIES THAT MAY AFFECT OPERATIONS.
14. COMPLETE ELECTRICAL INSTALLATION SHALL BE PERMANENTLY AND EFFECTIVELY GROUNDED TO GROUND RODS AND/OR STRUCTURAL STEEL IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND AASHTO CODE REQUIREMENTS. WHETHER OR NOT SUCH CONNECTIONS ARE SPECIFICALLY IDENTIFIED, MEASURED RESISTANCE TO GROUND TO BE 5 OHMS MAXIMUM.
15. ALL 600V POWER AND CONTROL CABLE SHALL BE TYPES RHH, RHW, XHHW-2 OR USE. THE CABLE SHALL RATED AT A MINIMUM OF 90°C DRY AND 75°C WET AND SHALL BE SUITABLE FOR INSTALLATION IN WET AND DRY LOCATIONS, AND SHALL BE RESISTANT TO OILS AND CHEMICALS. SHALL CONSIST OF STRANDED COPPER CONDUCTORS INSULATED WITH CHEMICALLY CROSS-LINKED POLYETHYLENE, XLPE.
16. THE CONTRACTOR SHALL PERFORM FULL CONTINUITY, INSULATION AND GROUNDING INTEGRITY TESTS UPON COMPLETION OF THE ELECTRICAL INSTALLATIONS. THE CONTRACTOR SHALL PERFORM FULL ACCEPTANCE TESTS OF ALL INDIVIDUAL NEW CCTV SYSTEM COMPONENTS, THE FULL SYSTEM'S INTEGRATION TO EXISTING IDOT CCTV MONITORING SYSTEM, AND ALL AUXILIARY EQUIPMENT. THE CONTRACTOR SHALL ALSO PERFORM FULL CONTINUITY TEST ON REMAINING SPARE FIBER OPTIC STRANDS IN EACH INSTALLED F.O. CABLE.
17. FOR ADDITIONAL INFORMATION REGARDING EXISTING ROADWAY, BRIDGE, AND OTHER INFRASTRUCTURE AND SYSTEMS, REFER TO BRIDGE'S ROADWAY AND VARIOUS ROOMS CONTRACT - WEST CONGRESS STREET BRIDGE OVER SOUTH BRANCH - CHICAGO RIVER. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INSTALLATIONS, AND SHALL PREPARE CONSTRUCTION DOCUMENTATION BASED ON VERIFIED FIELD MEASUREMENTS AND INSTALLATIONS.
18. ALL POWER EQUIPMENT SHALL BE GROUNDED. COPPER GROUNDING TERMINATION DETAILS, AS INDICATED ON DRAWINGS AND SPECIFICATIONS.
19. SUBMIT DETAIL DRAWINGS OF ALL EQUIPMENT PRIOR TO FABRICATION.
20. ALL EQUIPMENT SHOULD BE ARRANGED TO PERMIT EASY ACCESS FOR OPERATION AND MAINTENANCE.
21. ALL SURFACES DAMAGED IN THE COURSE OF WORK SHALL BE RESTORED TO THE ORIGINAL CONDITION AT NO ADDITIONAL COSTS TO THE OWNER.
22. UPON REMOVAL OF ANY EQUIPMENT, REMOVE ALL SUPPORTS AND HANGERS ASSOCIATED WITH THE EQUIPMENT AND RESTORE THE SURFACE TO MATCH THE SURROUNDING AREAS.
23. REMOVAL OF HAZARDOUS MATERIALS SHALL FOLLOW PROCEDURES APPROVED BY IDOT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION.
24. ELECTRICAL EQUIPMENT SHALL NOT BE INSTALLED DIRECTLY OVER HEAT PRODUCING EQUIPMENT SUCH AS WALL/SPACE HEATERS AND TRANSFORMERS.
25. ALL SALVACABLE EQUIPMENT SHALL BE RETURNED TO IDOT AT NO ADDITIONAL COST.

10/21/2013



James W. Guinan

James William Guinan
 IL PE 062.053407
Parsons Brinckerhoff
 Applicable to
 drawing sheets 3 through 10
 And 12 through 25

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PARSONS BRINCKERHOFF 230 West Monroe Street Suite 500 Chicago, IL 60606	USER NAME * peteld	DESIGNED - D. DRAKULICH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV SYSTEM, I-90/4 TO CONGRESS PARKWAY GENERAL ELECTRICAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME	DRAWN - E. MALUSEL	REVISED -			389	2013-026-1	COOK	37	3
	PLOT SCALE * NONE	CHECKED - S. STERN	REVISED -			CONTRACT NO. 60W49				
	PLOT DATE * 10/18/2013	DATE - 10/18/2013	REVISED -			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
				SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00						

ELECTRICAL NOTES:

B. CONDUIT & FITTINGS

1. USE FACTORY APPLIED POLYURETHANE COATED HOT DIPPED GALVANIZED RIGID CONDUIT AND FITTINGS IN AREAS WHERE CONDUITS ARE EXPOSED TO WATER CONDITIONS, AND FOR ALL OUTDOOR INSTALLATIONS INCLUDING CONTROL AND COMMUNICATION SYSTEMS.
2. ALL CONDUIT SHALL BE RIGID GALVANIZED STEEL UNLESS OTHERWISE NOTED. CONDUITS SHALL NOT BE LESS THAN 3/4" WHERE EXPOSED, AND NOT LESS THAN 1" WHERE CONCEALED, CONCRETE-ENCASED, OR BURIED.
3. ALL CONDUIT CONNECTIONS SHALL BE WATERTIGHT AND ALL CONDUITS ENTERING ENCLOSURES SHALL BE PROVIDED WITH WATERTIGHT HUBS AND CONDUIT SEALING BUSHINGS THROUGHOUT. ALL OPENINGS FOR CONDUIT PENETRATIONS SHALL BE SLEEVED, AND SHALL BE WATERPROOFED AND FIRE PROOFED.
4. INSTALL MOGUL CONDULETS WHERE CONDUIT RUN EXCEEDS 180 FEET BETWEEN CABLE PULLING POINTS. CONDUIT RUNS BETWEEN ANY TWO PULL POINTS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE RIGHT ANGLE BENDS. PROVIDE EXPANSION FITTINGS IN CONDUIT RUN WHERE IT CROSSES STRUCTURAL EXPANSION JOINT AND OR EVERY 300 FEET IN ALL EXPOSED CONDUIT RUNS.
5. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, SLEEVES SHALL BE INSTALLED AS REQUIRED TO PERMIT PASSAGE OF CONDUITS. AFTER INSTALLATION, ALL OPENINGS SHALL BE FILLED WITH 2 HOUR FIRE RATED COMPOUND AND WATERPROOFED TO MATCH THE SURROUNDING AREAS.
6. EXPOSED CONDUIT SUPPORTS MINIMUM SPACING, CENTER TO CENTER, SHALL BE NOT MORE THAN:
 -- 7/2 FEET ON CONCRETE OR MASONRY, AS PERMITTED BY NEC FOR THE CONDUIT SIZE
 -- 5 FEET ON STEEL STRUCTURES
7. WHEREVER A CONDUIT RUN MEETS AN OBSTRUCTION (DRAIN PIPE, VERTICAL PIPE, DRIP PAN, ETC.) CONDUIT SHALL BE OFFSET AS REQUIRED.
8. ALL SPARE DUCTS AND CONDUITS SHALL BE SEALED WITH HEAVY DUCT CAPS.
9. CHASE WALLS AND FLOORS AS REQUIRED AND APPROVED AND PATCH ALL OPENINGS, FLOOR CHASING OR HOLES WHICH HAVE BEEN CAUSED BY THE INSTALLATION AND REMOVAL OF THE EQUIPMENT.
10. THE NUMBER AND SIZES OF CONDUITS, BOXES, CABINETS, WIRES AND CABLES SHOWN ON THE CONTRACT PLANS SCHEMATIC LAYOUT DIAGRAMS AND SCHEDULES ARE THE MINIMUM PERMISSIBLE FOR THE POWER AND CONTROL CIRCUITS OF THE SYSTEMS SHOWN ON THESE CONTRACT PLANS. THE CONTRACTOR SHALL PROVIDE CONDUITS, CONDUCTORS AND CABLES OF SUFFICIENT NUMBER AND SIZE, INCLUDING SPARES, AS MAY BE REQUIRED FOR THE INSTALLATION IN ACCORDANCE WITH THE FINAL WIRING DIAGRAMS ON THE APPROVED WORKING DRAWINGS, AND IN COMPLIANCE WITH NEC AND ALL OTHER APPLICABLE CODES.
11. THE CONTRACTOR SHALL NUMBER AND TAG SPARE CONDUCTORS AS SUCH, AND SPARE CONDUCTORS SHALL BE SHOWN ON ALL SHOP AND RECORD DRAWINGS. THE SCHEMATIC CONDUIT DIAGRAMS ON THE CONTRACT PLANS AND ALL ASSOCIATED TABLES, SCHEDULES AND DETAILS DO NOT PURPORT TO SHOW ALL PULL AND TERMINAL BOXES, JUNCTION BOXES, MOUNTING HARDWARE AND SUPPORTS ASSOCIATED WITH THE COMPLETE AND FINAL INSTALLATION OF ALL ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL BOXES, SUPPORTS AND OTHER HARDWARE REQUIRED TO CONFORM TO THESE ITEMS' CONSTRUCTION AND INSTALLATION SPECIFICATIONS, IN COMPLIANCE WITH ALL APPLICABLE CODES AND NYCT DESIGN GUIDELINES.
12. FLEXIBLE CONDUIT SECTIONS, HARDWARE AND SUPPORTS REQUIRED FOR CONNECTIONS TO CCTV EQUIPMENT ARE NOT INDICATED ON THE CONTRACT PLANS.
13. THE SCHEMATIC CONDUIT DIAGRAMS DO NOT PURPORT TO SHOW THE EXACT PHYSICAL LAYOUT AND LOCATIONS OF THE EQUIPMENT OR OF THE ASSOCIATED CONDUIT, WIRING, BOXES AND OTHER HARDWARE, AND SHOULD NOT BE USED FOR SUCH PURPOSES AS SUBSTITUTES FOR WORKING OR INSTALLATION DRAWINGS. THE CONTRACTOR SHALL SUBMIT SUCH COMPLETE CONDUIT PHYSICAL LAYOUT DRAWINGS AS PART OF THE SHOP DRAWING SUBMITTAL PROCESS FOR THE ENGINEER'S APPROVAL PRIOR TO PERFORMING THE ACTUAL WORK. THE CONTRACTOR IS SOLELY RESPONSIBLE TO PRODUCE AND SUBMIT FOR THE ENGINEER'S APPROVAL SUCH DRAWINGS AS SPECIFIED HEREIN AND UNDER OTHER RELATED NOTES AND SPECIFICATION SECTIONS.
14. FITTINGS, MOUNTING SUPPORTS, BRACKETS, ETC. ARE NOT SHOWN ON THE CONDUIT AND WIRING SCHEMATIC DIAGRAMS.

C. ELECTRIC POWER

1. ALL SPARE DUCTS SHALL BE SEALED WITH HEAVY DUCT CAPS AT BOTH ENDS.
2. A FRAMEWORK OF KINDORF CHANNEL OR APPROVED EQUAL SHALL BE INSTALLED TO SUPPORT ENCLOSURES. KINDORF CHANNELS MOUNTED VERTICALLY ON THE WALL SHALL HAVE 3/4" SPACERS.
3. ALL REQUIRED CONDUIT, WIRE, CABLE, FITTINGS, BOXES, HARDWARE ETC. SHALL BE FURNISHED AND INSTALLED IN ORDER TO MAKE A COMPLETE ELECTRICAL SYSTEM READY FOR OPERATION. NO SPLICING OF WIRE AND CABLE IS ACCEPTABLE UNLESS OTHERWISE INDICATED ON THE CONTRACT DRAWINGS.

D. ELECTRICAL DEMOLITION

1. REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE ELECTRICAL LAYOUTS AND SCHEMES IN FULL COORDINATION WITH ALL OTHER DEMOLITION WORK. ALL EQUIPMENT WHICH IS NO LONGER REQUIRED SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE SOURCE OF POWER SUPPLY, AND REMOVED. WHEN REMOVING EMPTY CONDUITS, PATCH SURFACES BEHIND THEM ON THE WALLS, CEILINGS AND OTHER STRUCTURAL ELEMENTS THAT ARE TO REMAIN.
2. MAINTAIN SERVICE TO EXISTING EQUIPMENT THAT IS OPERATIONAL. PROVIDE COVERING AND PATCHING OF ALL OPENINGS CREATED BY ELECTRICAL EQUIPMENT REMOVALS, ON ALL WALLS, CEILINGS AND OTHER STRUCTURES TO REMAIN. THE REMAINING ELECTRICAL EQUIPMENT SHALL BE RECONNECTED AND RESTORED TO THEIR CURRENT FUNCTIONS AS PART OF THE ELECTRICAL SYSTEMS WORK.
3. NOTIFY IDOT AND THE FACILITY GENERAL MANAGER THRU THE ENGINEER AT THE APPROPRIATE TIME AND FOLLOWING THE APPROPRIATE PROCEDURES FOR THE PROJECTED DEMOLITION. EQUIPMENT PROTECTION AND CONSTRUCTION PHASING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AND AS AGREED WITH THE IDOT AND OTHER LOCAL AUTHORITIES. FOLLOW THE APPROVED DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE AS APPLICABLE TO ANY POWER SHUTDOWN.
4. CONTRACTOR SHALL SUBMIT ALL MATERIAL REMOVALS FOR REVIEW AND APPROVAL 30 DAYS PRIOR TO ANY DEMOLITION WORK. AT NO TIME THE CONTRACTOR SHALL PERFORM ANY DEMOLITION WORK, RELOCATION, REPAIR OR REROUTING OF EXISTING CABLES, CONDUITS, RACEWAYS, JUNCTION BOXES OR EQUIPMENT IN AN AREA WITHOUT THE ENGINEER'S APPROVAL FOR THE AREA AS CLEAR OF ANY HAZARDOUS MATERIALS.

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BRINCKERHOFF**
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USER NAME : potaid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE : NONE	CHECKED - S. STERN	REVISED -
PLOT DATE : 10/16/2013	DATE - 10/16/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV SYSTEM, I-90/4 TO CONGRESS PARKWAY
ELECTRICAL NOTES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-1	COOK	37	4
SCALE: AS SHOWN			SHEET NO. OF SHEETS	
STA. 383+46.00 TO STA. 382+50.00			CONTRACT NO. 60W49	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS	N	NEUTRAL, NORTH
AC	ALTERNATING CURRENT	N/A	NOT APPLICABLE
AWG	AMERICAN WIRE GAUGE	NC	NORMALLY CLOSED
AUX.	AUXILIARY	NE	NORTHEAST
		NEC	NATIONAL ELECTRICAL CODE
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BRIDGE	BR.	NETA	NATIONAL ELECTRICAL TESTING ASSOCIATION
		NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
C	CONDUIT (HOT DIPPED RIGID GALVANIZED STEEL)	NNL	NORTH NAVIGATION LIGHT
CAB.	CABINET	NO	NORMALLY OPEN
	CABLE	NO.	NUMBER, NORTH
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CCR	CAMERA CONTROL RECEIVER	NWLCL	NORTHWEST LEAF CENTER LOCK
CCTV	CLOSED CIRCUIT TELEVISION CAMERA	NW	NORTHWEST
CHNL.	CHANNEL		
CKT, CCTS	CIRCUIT/S	∅	PHASE
COAX	COAXIAL CABLE	O	OPEN
CONN	CONNECTION		
CONT	CONTINUATION, CONTACT		
DC	DIRECT CURRENT		
DN	DOWN	PH	PHASE
DO	DISCRETE OUTPUT	PLC	PROGRAMMABLE LOGIC CONTROLLER
DWG	DRAWING	PVC	POLYVINYL CHLORIDE COATED CONDUIT
		PWR. / POW.	POWER
EC	EXISTING CONDUIT	RDWAY.	ROADWAY
EDM	EAST DRIVE MOTOR	REF	REFERENCE
ENCL	ENCLOSURE	REM	REMOTE
		RM.	ROOM
		RGS	RIGID GALVANIZED STEEL CONDUIT/FITTING
F	FUSE	SO.	SOUTH
FDR	FEEDER	SCC	SUBMARINE CABLE CONTROL
F.O.	FIBER OPTIC	SCP	SUBMARINE CABLE POWER
FO	FULLY OPEN	SCFO	SUBMARINE CABLE FIBER OPTIC
FT.	FOOT	SE	SOUTHEAST
FTTG.	FITTING	SUB.	SUBMARINE
		SW	SOUTHWEST
GND	GROUND	TRANSM.	TRANSMITTER
HSE.	HOUSE	TB	TERMINAL BOX
		TSP	TWISTED SHIELDED PAIR
		TYP	TYPICAL
INST.	INSTRUMENT		
INT.	INTERCOM	UG.	UNDERGROUND
		UL	UNDERWRITERS LABORATORIES, INC.
JBOX	JUNCTION BOX	UON	UNLESS OTHERWISE NOTED
J-BOX	BOX "J"	UTP	UNSHIELDED TWISTED PAIR
KCMIL	THOUSAND CIRCULAR MIL	V	VOLT
KV	KILOVOLT	VAC	RMS VOLT ALTERNATING CURRENT
KVA	KILOVOLT-AMPERE	VDC	VOLT DIRECT CURRENT
KW	KILOWATT		
	KILOWATT METER		
LP	LIGHTING PANELBOARD	W	WATT, WIRE
LS	LIMIT SWITCH	W/	WITH
LTG	LIGHTING	W/O	WITHOUT
		WP	WEATHERPROOF

ELECTRICAL SYMBOLS

(LIGHT LINE INDICATES EXISTING CONDUIT, CABLE AND EQUIPMENT. HAVY LINE INDICATES NEW WORK).

	CONDUIT RUN EXPOSED.
	CONDUIT TURNING UP OR TOWARD OBSERVER.
	CONDUIT TURNING DOWN OR AWAY FROM OBSERVER.
	UNDERGROUND POWER (600V AND BELOW), CONCRETE ENCASED CONDUIT OR DUCTBANK.
	SUBMARINE CABLE.
	STAGE 2 - EXISTING EQUIPMENT, CONDUIT, OR CABLE TO BE REMOVED.
	HOME RUN, DESIGNATION INDICATES PANEL AND CIRCUIT NUMBERS HATCHMARK INDICATES NUMBER OF #12 PHASE WIRE, UON. HATCHMARK WITH STRIKE INDICATES #12 NEUTRAL WIRE, UON. HATCHMARK WITH TAIL INDICATES #12 GROUND WIRE, UON.
	208/120V, 3P, 4W DISTRIBUTION PANELBOARD.
	EQUIPMENT BOX
	TERMINAL, PULL OR SPLICE BOX AS SHOWN.
	JUNCTION BOX.
	FLUSH MOUNTED DUPLEX CONVENIENCE RECEPTACLE, 20A, 125V, 3W GROUNDING TYPE WITH GROUND FAULT CIRCUIT INTERRUPTER.
	WALL MOUNTED DUPLEX CONVENIENCE RECEPTACLE, 20A, 125V, 3W GROUNDING TYPE WITH GROUND FAULT CIRCUIT INTERRUPTER IN WEATHERPROOF ENCLOSURE

FOR SINGLE LINE AND CONTROL WIRING DIAGRAMS

	MAGNETIC STARTER OR CONTACTOR COIL WITH IDENTIFICATION
	RELAY COIL WITH IDENTIFICATION
	CONTACT, NORMALLY OPEN INSTANTLY ON ENERGIZING "R1" - INDICATES CONTACT OF RELAY R1
	CONTACT, NORMALLY CLOSED SUBSCRIPTS HAVE SAME MEANING AS ABOVE
	FULL-VOLTAGE NON-REVERSING STARTER CONTACTOR, 3 POLE "3" - INDICATES STARTER SIZE RATING
	CCTV (BLOCK DIAGRAM)
	PAN TILT ZOOM CCTV CAMERA, OUTDOOR

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FILE NAME:	DRAWN: E. MALUSEL	REVISED:
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PLOT DATE: 10/18/2013	DATE: 10/18/2013	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
ELECTRICAL SYMBOLS AND ABBREVIATIONS

SCALE: AS SHOWN	SHEET NO. OF SHEETS	STA. 353+46.00 TO STA. 382+50.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-1	COOK	37	5
PED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W49	

POT Sta. 321+00.00

325+00 SURVEY CONGRESS PARKWAY N 88° 36' 05" E 330+00

MATCHLINE STA. 335+00.00

MATCHLINE STA. 335+00.00

340+00 SURVEY CONGRESS PARKWAY N 88° 36' 05" E 345+00

MATCHLINE STA. 349+00.00

MATCHLINE STA. 349+00.00

350+00 SURVEY CONGRESS PARKWAY N 88° 36' 05" E 355+00 360+00

POT Sta. 362+00.00
MATCHLINE STA. 362+00.00

PROJECT BEGINS
STA. 354+00.00

S. DESPLAINES ST.

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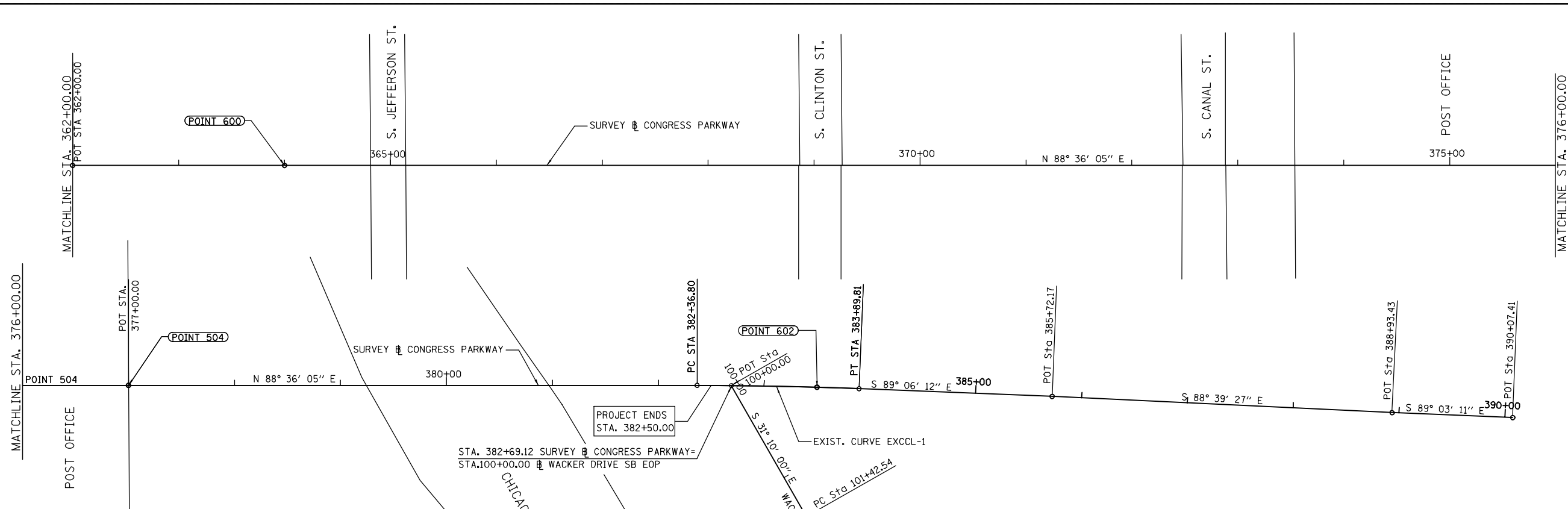
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
ALIGNMENT AND BENCHMARKS SHEET 1 OF 2

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	7
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONGRESS PARKWAY			
PI	STA. 383+13.31	N 1898043.888	E 1174221.210
PC	STA. 382+36.80	N 1898042.021	E 1174144.715
PT	STA. 383+89.81	N 1898042.691	E 1174297.717
C.C.		N 1894223.439	E 1174237.938

WARCKER DR			
PI	STA. 101+92.69	N 1897877.793	E 1174276.762
PC	STA. 101+42.54	N 1897920.706	E 1174250.807
PT	STA. 102+42.84	N 1897834.578	E 1174302.209
C.C.		N 1893515.184	E 1166966.873

EXIST. CURVE EXCCL-1
 PI STA. = 383+13.31
 $\Delta = 2^\circ 17' 43''$ (RT)
 $D = 1^\circ 30' 00''$
 $R = 3,819.72'$
 $T = 76.52'$
 $L = 153.01'$
 $E = 0.77'$
 P.C. STA. = 382+36.80
 P.T. STA. = 383+89.81

EXIST. CURVE WKSBEOP_1
 PI STA. = 101+92.69
 $\Delta = 0^\circ 40' 30''$ (RT)
 $D = 0^\circ 40' 23''$
 $R = 8,512.60'$
 $T = 50.15'$
 $L = 100.30'$
 $E = 0.15'$
 P.C. STA. = 101+42.54
 P.T. STA. = 102+42.84

CONGRESS PARKWAY BASELINE TIES				
600	POT	STA. 364+00.00	N 1897997.193	E 1172308.467
504	POT	STA. 377+00.00	N 1898028.920	E 1173608.080
602	POT	STA. 383+50.00	N 1898043.107	E 1174257.910

- BENCHMARK DESCRIPTIONS**
- BENCHMARK 1** BRASS DISK SET IN SIDEWALK ON THE SOUTHERLY SIDE OF HARRISON STREET EAST OF FRANKLIN STREET. ELEV. 17.655
 - BENCHMARK 3** BRASS DISK SET IN SIDEWALK NEAR THE NE CORNER OF WELLS STREET AND HARRISON STREET. ELEV. 14.214
 - BENCHMARK 2259** "X" CUT ON TOP OF STONE BASE UNDER SOUTH SIDE OF WINDOW ON EAST SIDE OF 2-STORY BRICK BUILDING AT THE NW CORNER OF CLINTON STREET AND POLK STREET. ELEV. 15.173

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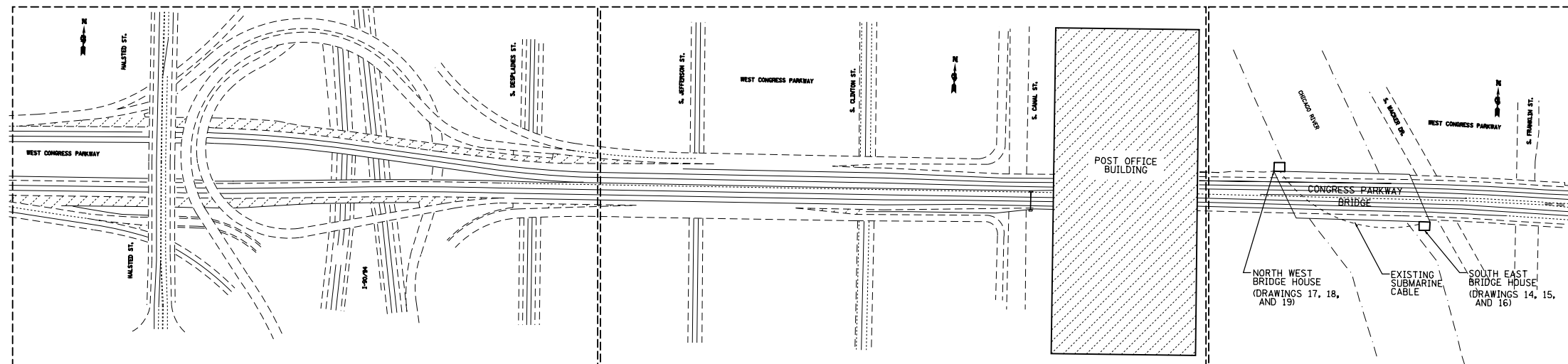
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/4 TO CONGRESS PARKWAY
ALIGNMENT AND BENCHMARKS SHEET 2 OF 2

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	8
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FOR THIS AREA REFER TO DRAWING 11

FOR THIS AREA REFER TO DRAWING 12

FOR THIS AREA REFER TO DRAWING 13

KEY PLAN
N.T.S.

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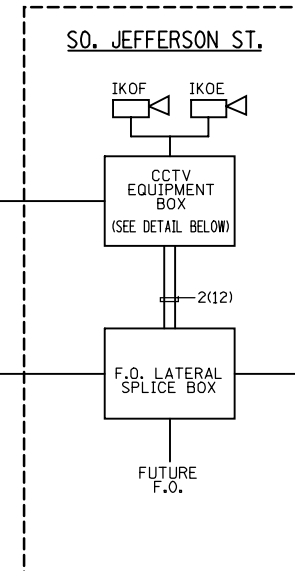
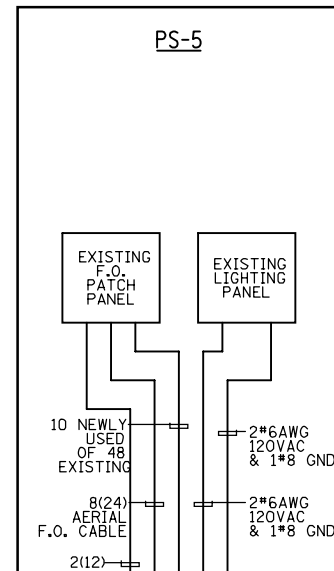
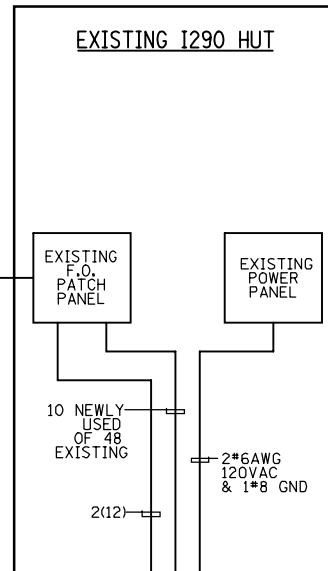
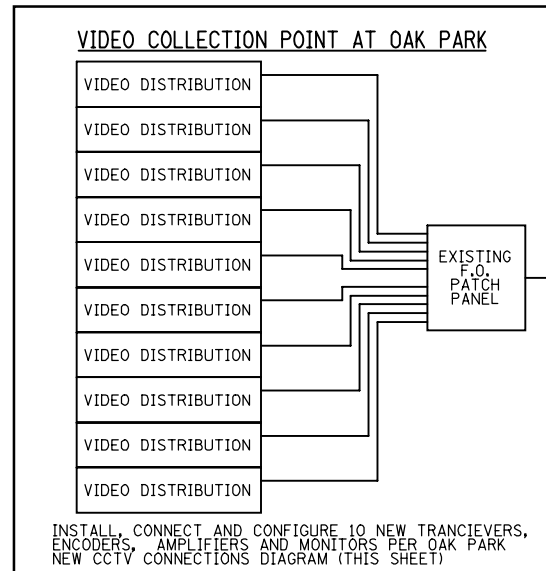
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

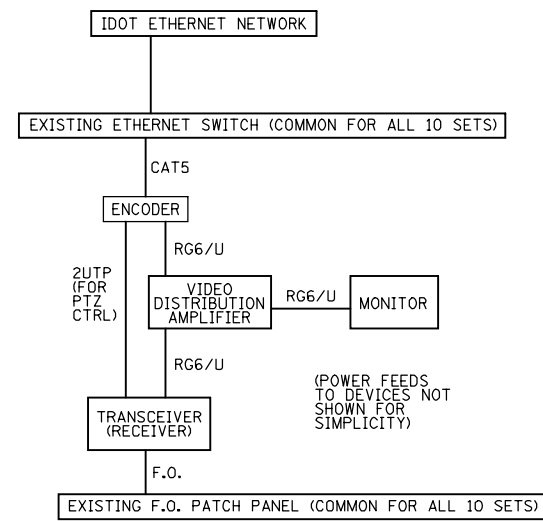
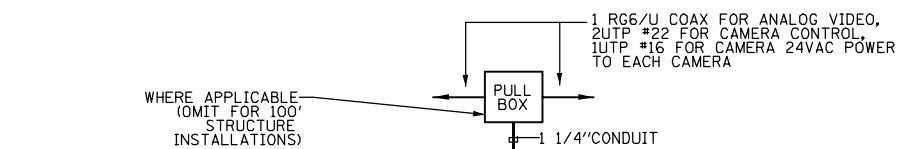
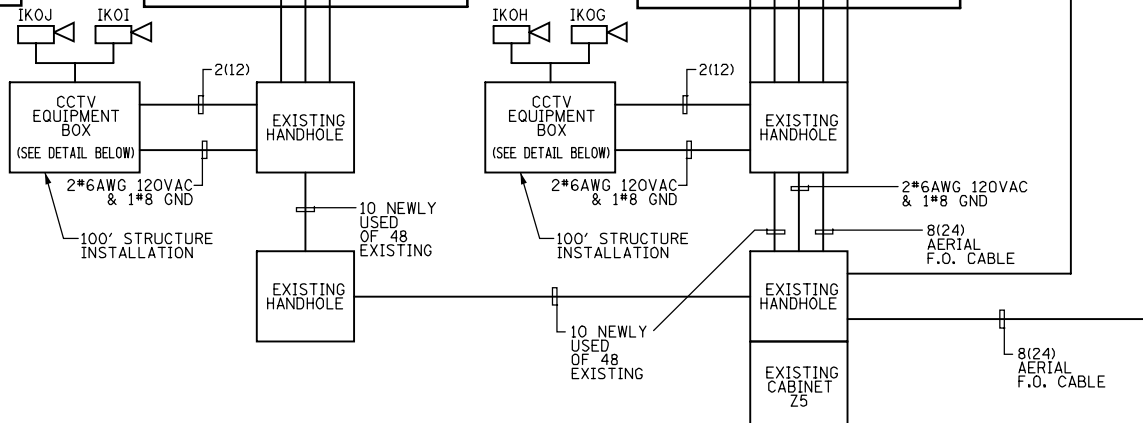
**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
KEY PLAN**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

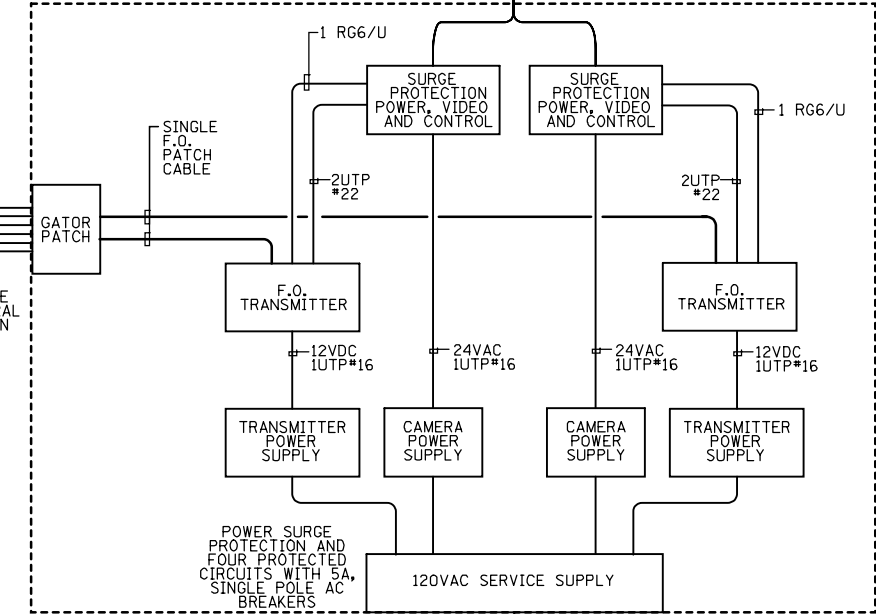
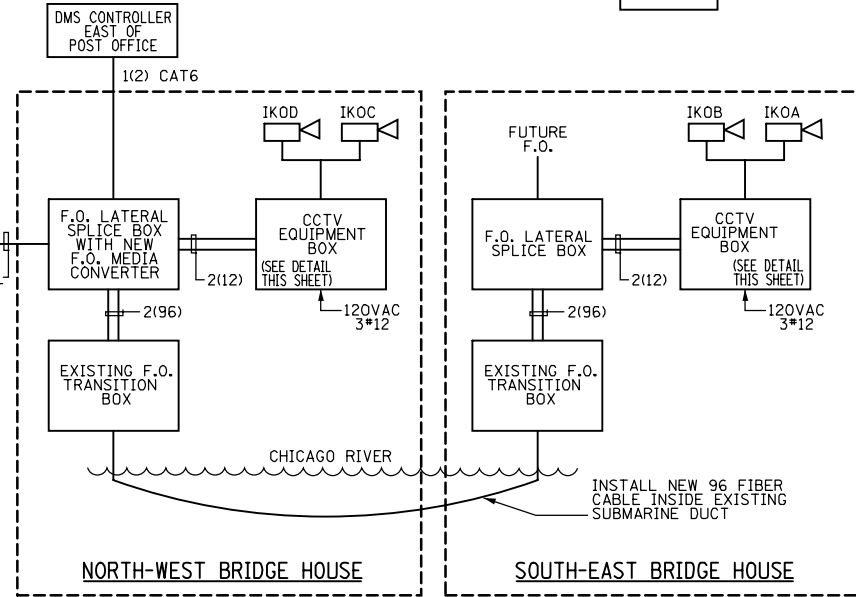
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389	2013-026-I	COOK	37	9
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



- NOTES:**
- SEE FIBER ASSIGNMENT TABLES (DWGS. 23, 24, 25, 27, 28 AND 29 FOR FIBER OPTIC CABLE WIRE ASSIGNMENTS).
 - ALL EQUIPMENT IS NEW TO BE FURNISHED AND INSTALLED UNLESS OTHERWISE NOTED



OAK PARK NEW CCTV EQUIPMENT CONNECTION DIAGRAM (TYP. OF 10)



CCTV EQUIPMENT BOX (TYPICAL)

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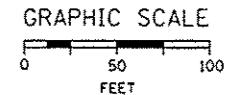


USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
CCTV SYSTEM BLOCK DIAGRAM

SCALE: AS SHOWN	SHEET NO. OF SHEETS	STA. 353+46.00 TO STA. 382+50.00	F.A.P. RTE. 389	SECTION 2013-026-I	COUNTY COOK	TOTAL SHEETS 37	SHEET NO. 10
CONTRACT NO. 60W49						FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	



(1) CAMERA STRUCTURE, 100' MOUNTING HEIGHT WITH
(2) CCTV INSTALLATIONS (IKOI & IKOJ)

(2) 48' OF 3" PVC CONDUIT WITH
(1) 48' OF 12 SM F.O. COMM. CABLE
(1) 48' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

DRILL EX. HANDHOLE

(3) 14' OF EX. CONDUIT WITH
(1) 14' OF 12 SM F.O. COMM. CABLE
(1) 14' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

TERMINATE 12 SM F.O. IN COMM. HUT. CONNECT POWER CABLES TO EX. POWER PANEL IN COMM. HUT. SEE COMMUNICATION DETAILS.

APPROXIMATELY 1184' OF EX. CONDUIT WITH EX. 48 SM F.O. BETWEEN COMM. HUT AND PS-5.

(2) 124' OF 3" PVC CONDUIT WITH
(1) 124' OF 12 SM F.O. COMM. CABLE
(1) 124' OF 24 SM F.O. AERIAL CABLE
(2) 124' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

(1) 176' OF EX. CONDUIT WITH
(1) 176' OF 24 SM F.O. AERIAL CABLE
(1) 176' OF EX. 48 SM F.O. COMM. CABLE

(1) 176' OF 3" PVC CONDUIT WITH
(1) 176' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

DRILL EX. HANDHOLE

EX. SURVEILLANCE CABINET 25

TERMINATE 12 SM F.O. AND 24 SM F.O. IN PS-5. CONNECT POWER CABLES TO EXISTING LIGHTING PANEL IN PS-5. SEE COMMUNICATION DETAILS AND PUMP STATION DETAILS.

(2) JB, SS, 12"x12"x6" ATS
(2) 20' OF 3" PVC G.S. CONDUIT ATS WITH
(1) 20' OF 12 SM F.O. COMM. CABLE
(1) 20' OF 24 SM F.O. AERIAL CABLE
(2) 20' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

SEE NOTE 1.
(2) 51' OF 3" PVC CONDUIT WITH
(1) 51' OF 12 SM F.O. COMM. CABLE
(1) 51' OF 24 SM F.O. COMM. CABLE
(2) 51' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

DRILL EX. HANDHOLE

(2) 20' OF 3" PVC CONDUIT WITH
(1) 20' OF 12 SM F.O. COMM. CABLE
(1) 20' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

(1) CAMERA STRUCTURE, 100' MOUNTING HEIGHT WITH
(2) CCTV INSTALLATIONS (IKOG & IKOH)

(1) 14' OF 2" PVC COATED G.S. CONDUIT ATS WITH
(1) 14' OF 24 SM F.O. AERIAL CABLE
(1) 14' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

(1) 38' OF 2" PVC CONDUIT UNDERGROUND WITH
(1) 38' OF 24 SM F.O. AERIAL CABLE
(1) 38' OF 2-C NO. 6 WITH NO. 8 GROUND POWER CABLE

LEGEND

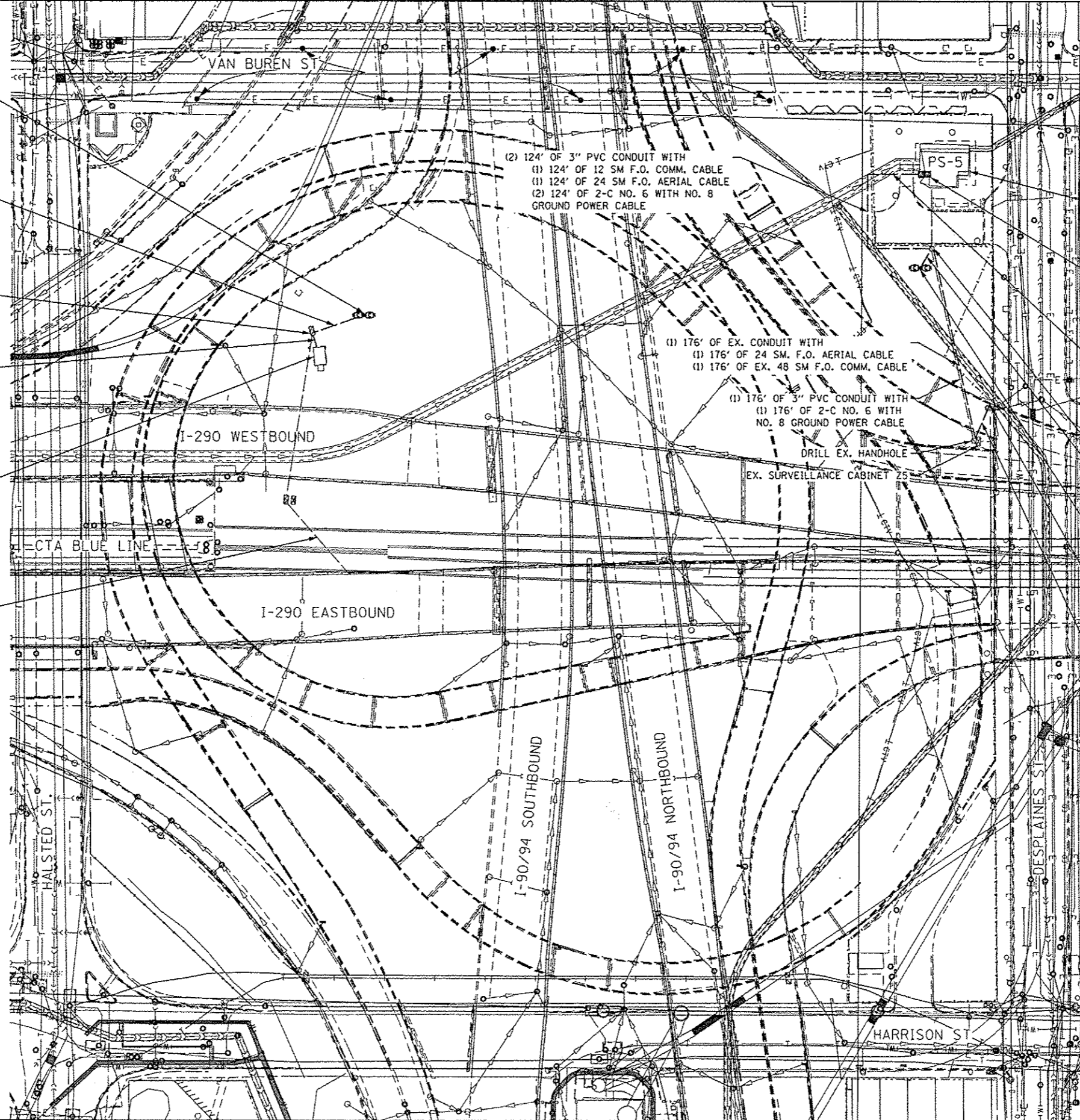
- EXISTING HANDHOLE
- ⊞ EXISTING CABINET
- PROPOSED CCTV POLE
- ⊞ PROPOSED CCTV ASSEMBLY
- EXISTING UNDERGROUND CABLE
- PROPOSED UNDERGROUND CABLE

NOTES

1. SAW CUT AND REMOVE THE EXISTING PAVEMENT TO INSTALL THE CONDUIT. THE PAVEMENT SHALL BE RESTORED AND THE TRENCH FILLED. THE WORK TO REMOVE AND RESTORED THE EXISTING PAVEMENT INCLUDING ALL MATERIALS, DISPOSAL AND BACKFILLING WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE "UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA." PAY ITEM.



EXPIRATION DATE: 11/30/2013
SHEET RANGE: 11, 26-29



DWG NO. 6060936-ITS-01	DESIGNED - JML	REVISED -
USER NAME: jlacharj	DRAWN - JML	REVISED -
PLOT SCALE: 1/8" = 1'-0"	CHECKED - WDS	REVISED -
PLOT DATE: 10/24/2013	DATE - 10/18/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

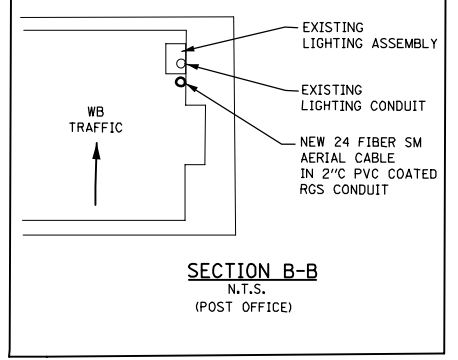
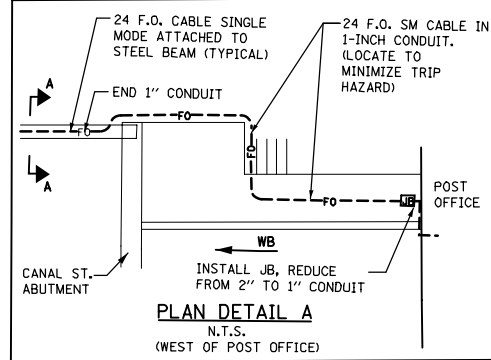
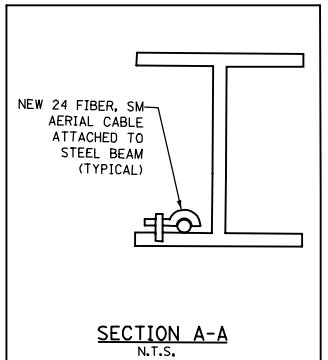
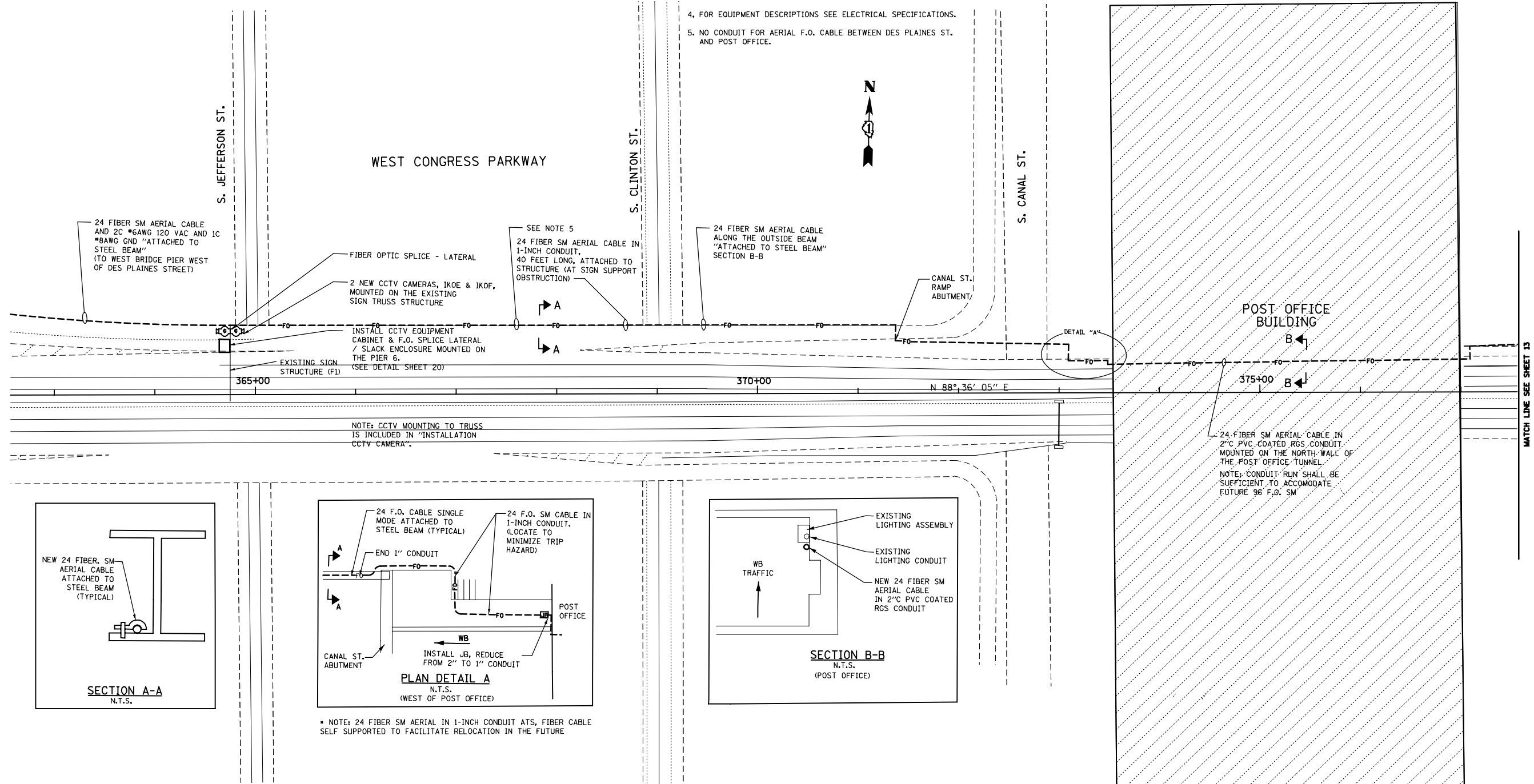
HALSTED STREET AND HARRISON STREET - ITS PLANS
PROPOSED ITS

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

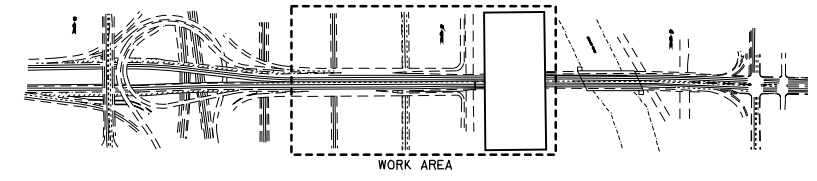
F.A.I. RTE. 389	SECTION 2013-26-1	COUNTY COOK	TOTAL SHEETS 37	SHEET NO. 11
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W49	

NOTES:

1. FOR GENERAL AND ELECTRICAL NOTES, SEE DWG'S 2, 3 & 4.
2. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, SEE DWG. 5
3. FOR PANEL SCHEDULES, SEE DWG 22.
4. FOR EQUIPMENT DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.
5. NO CONDUIT FOR AERIAL F.O. CABLE BETWEEN DES PLAINES ST. AND POST OFFICE.



* NOTE: 24 FIBER SM AERIAL IN 1-INCH CONDUIT AT S, FIBER CABLE SELF SUPPORTED TO FACILITATE RELOCATION IN THE FUTURE



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USER NAME = pated	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
CCTV FIBER OPTIC PLAN SHEET 1 OF 2**

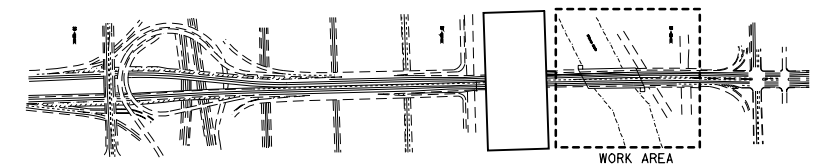
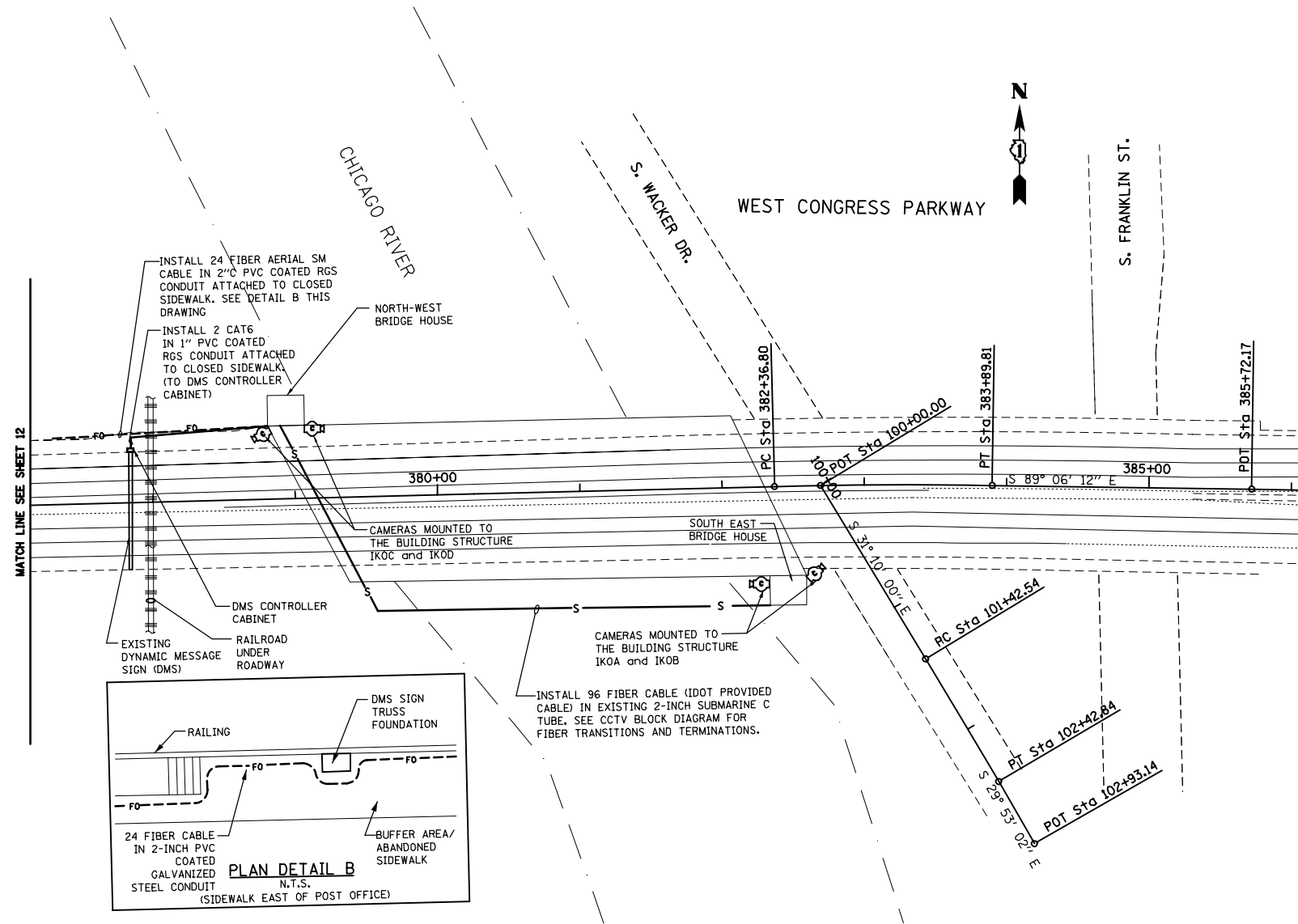
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	12
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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28-OCT-2013 13:46

NOTES:

1. FOR GENERAL AND ELECTRICAL NOTES, SEE DWG'S 2, 3 & 4.
2. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, SEE DWG. 5
3. FOR PANEL SCHEDULES, SEE DWG 22.
4. FOR EQUIPMENT DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.



**PARSONS
BRINCKERHOFF**
230 West Monroe Street
Suite 900
Chicago, IL 60609

USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

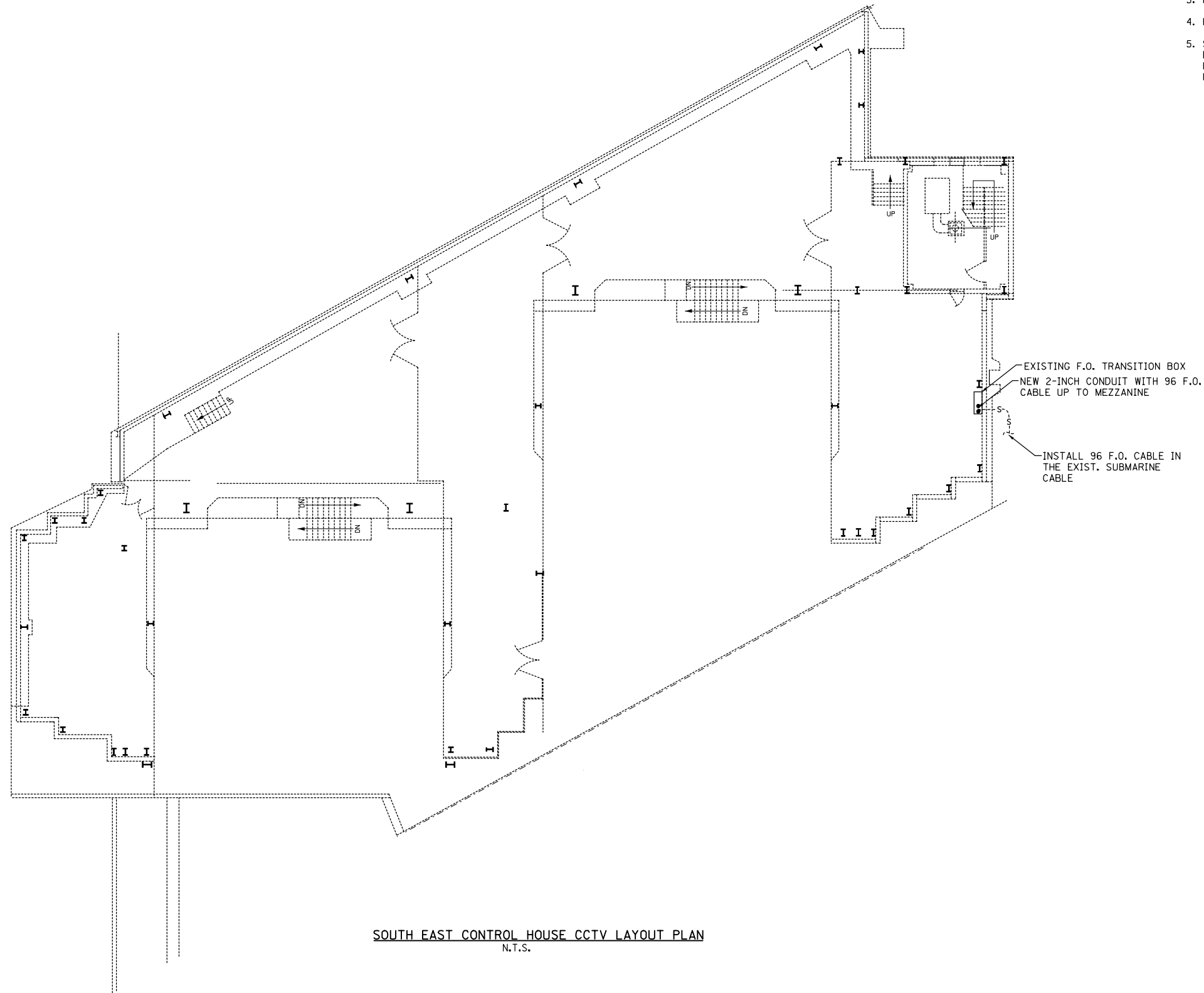
**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
CCTV FIBER OPTIC PLAN SHEET 2 OF 2**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	13
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



- NOTES:**
1. FOR GENERAL AND ELECTRICAL NOTES, SEE DWG'S 2, 3 & 4.
 2. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, SEE DWG. 5
 3. FOR PANEL SCHEDULES, SEE DWG 22.
 4. FOR EQUIPMENT DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.
 5. SURVEY EXISTING CIRCUITS IN THE SUBMARINE CABLE TUBE, REINSTALL AS REQUIRED WITH THE ADDITIONAL 96 STRAND F.O. CABLE. RETEST AND VERIFY EXISTING SYSTEM FUNCTIONALITY UPON COMPLETION OF WORK.



SOUTH EAST CONTROL HOUSE CCTV LAYOUT PLAN
N.T.S.

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**PARSONS
BRINCKERHOFF**
230 West Monroe Street
Suite 900
Chicago, IL 60609

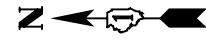
USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
EAST SIDE DOCK LEVEL**

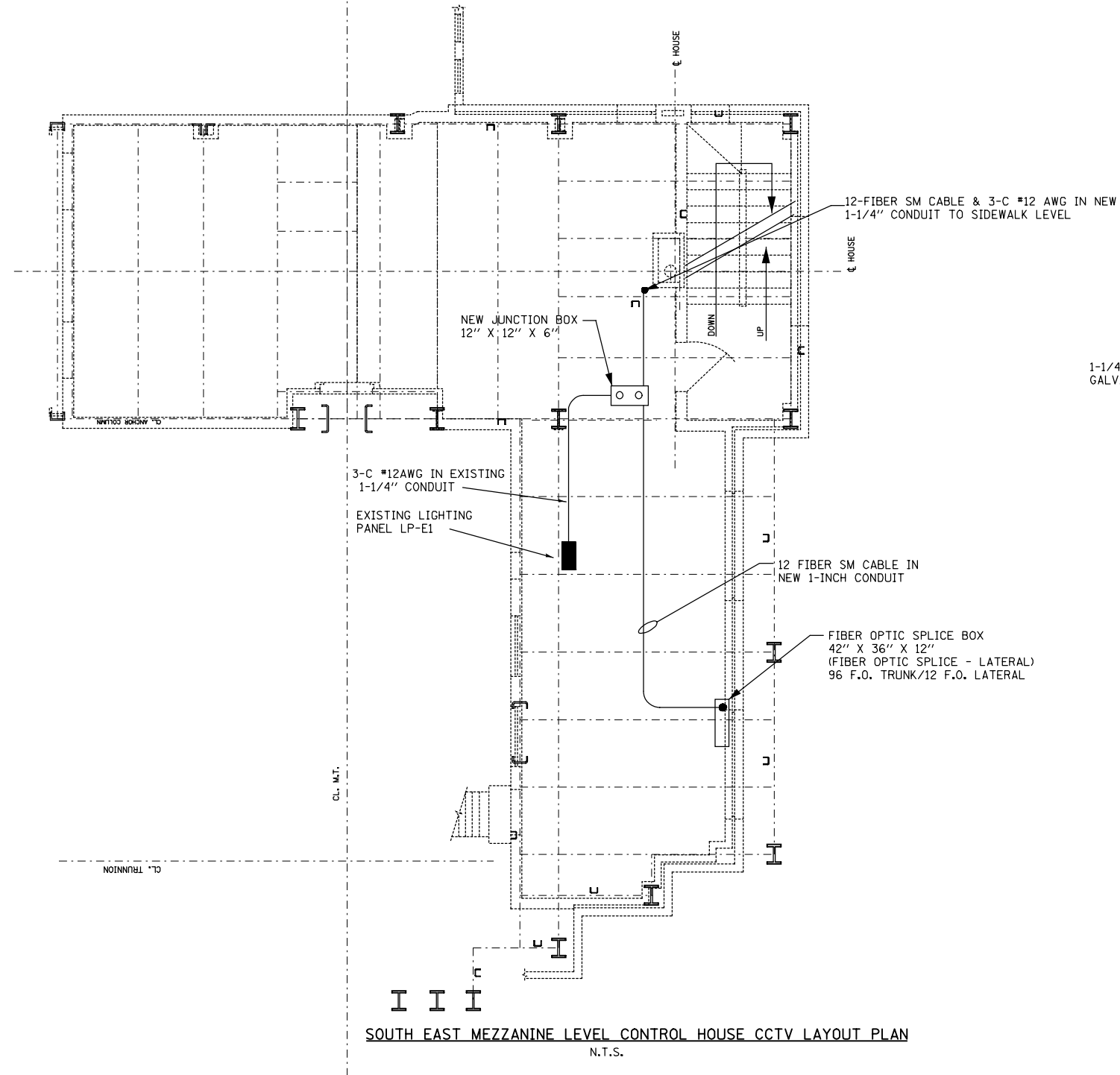
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

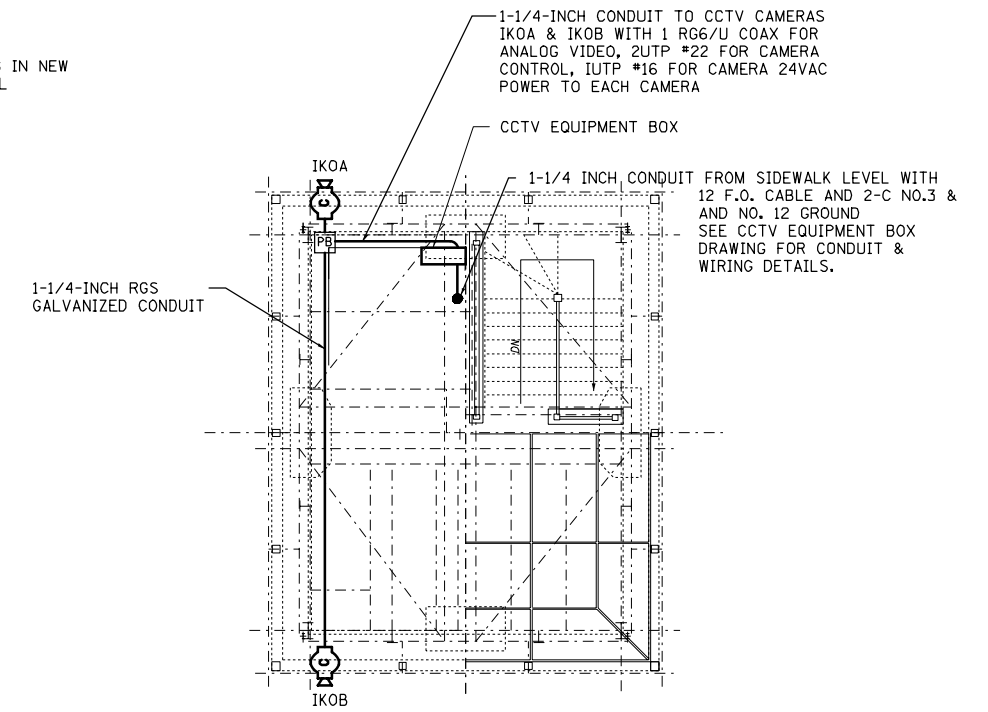


NOTES:

1. FOR GENERAL AND ELECTRICAL NOTES, SEE DWG'S 2, 3 & 4.
2. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, SEE DWG. 5
3. FOR PANEL SCHEDULES, SEE DWG 22.
4. FOR EQUIPMENT DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.



SOUTH EAST MEZZANINE LEVEL CONTROL HOUSE CCTV LAYOUT PLAN
N.T.S.



EAST SIDE OPERATOR'S ROOM PLAN
N.T.S.

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USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
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PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

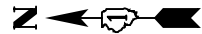
DESIGNED - D. DRAKULICH	REVISED -
DRAWN - E. MALUSEL	REVISED -
CHECKED - S. STERN	REVISED -
DATE - 10/18/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

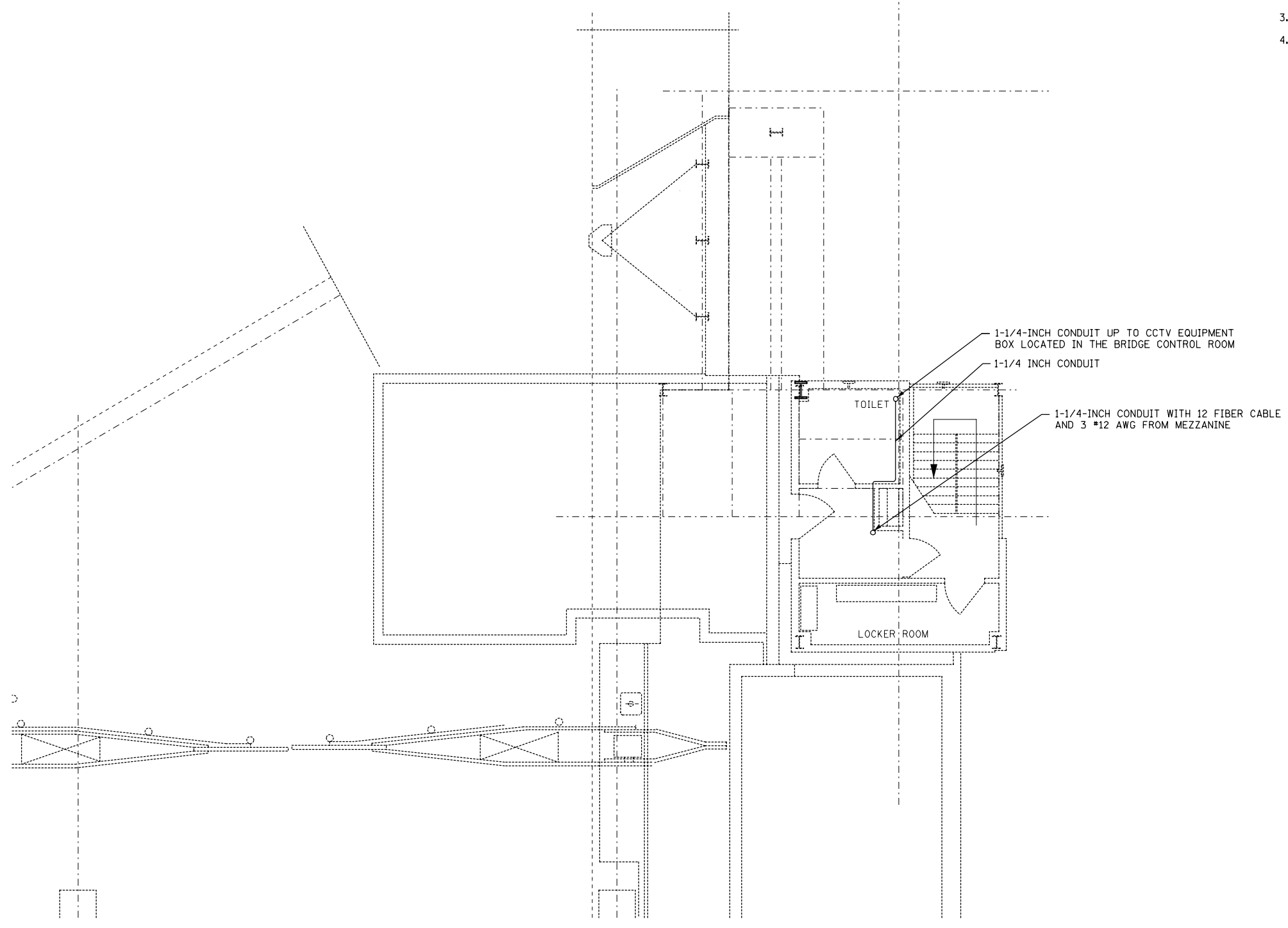
**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
EAST SIDE MEZZANINE LEVEL AND OPERATOR'S ROOM**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	15
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



- NOTES:**
1. FOR GENERAL AND ELECTRICAL NOTES, SEE DWG'S 2, 3 & 4.
 2. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, SEE DWG. 5
 3. FOR PANEL SCHEDULES, SEE DWG 22.
 4. FOR EQUIPMENT DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.



SOUTH EAST SIDE SIDEWALK LEVEL CCTV LAYOUT PLAN

N.T.S.

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USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

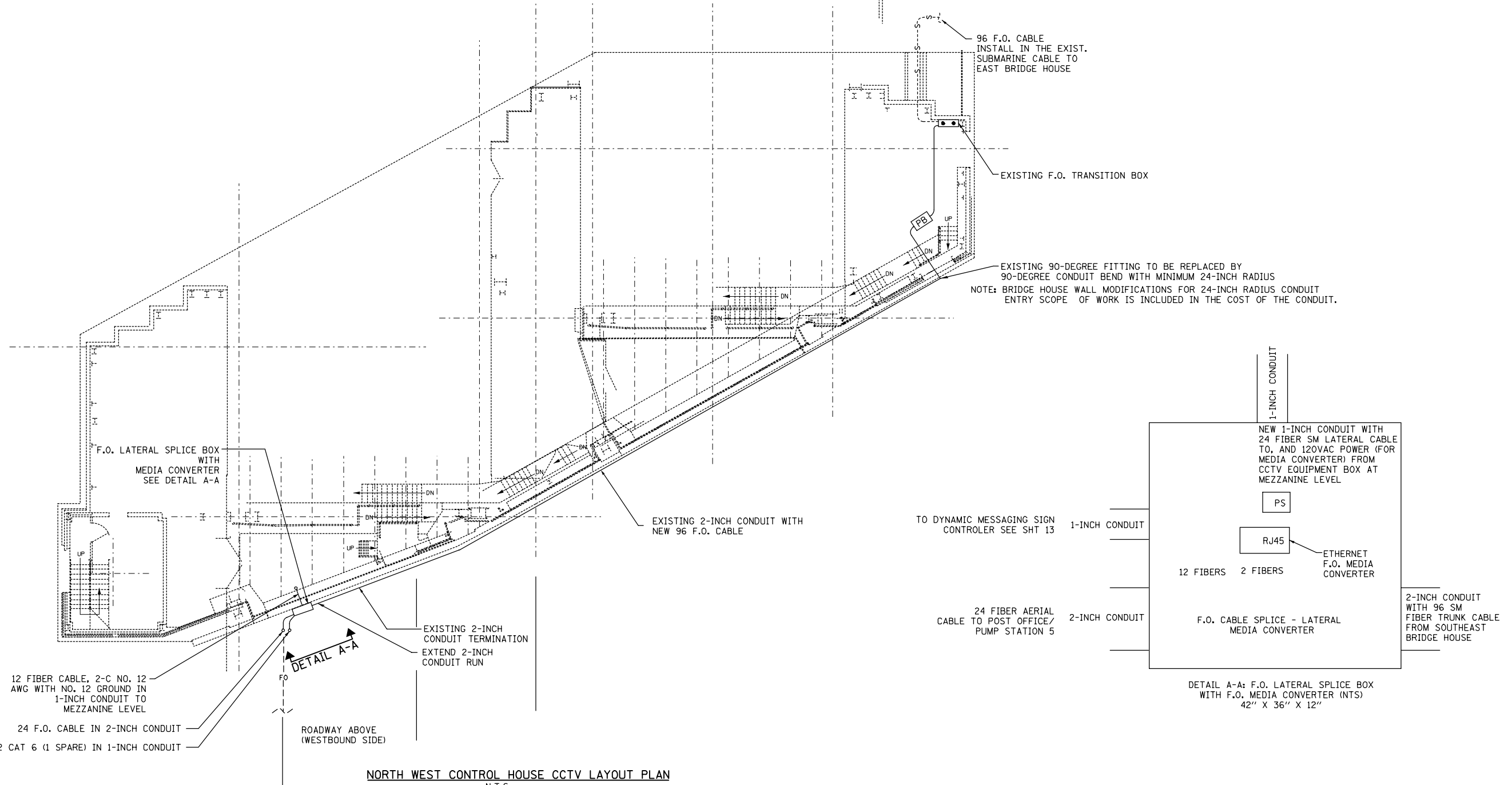
**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
EAST SIDE SIDEWALK LEVEL**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	16
CONTRACT NO. 60W49			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



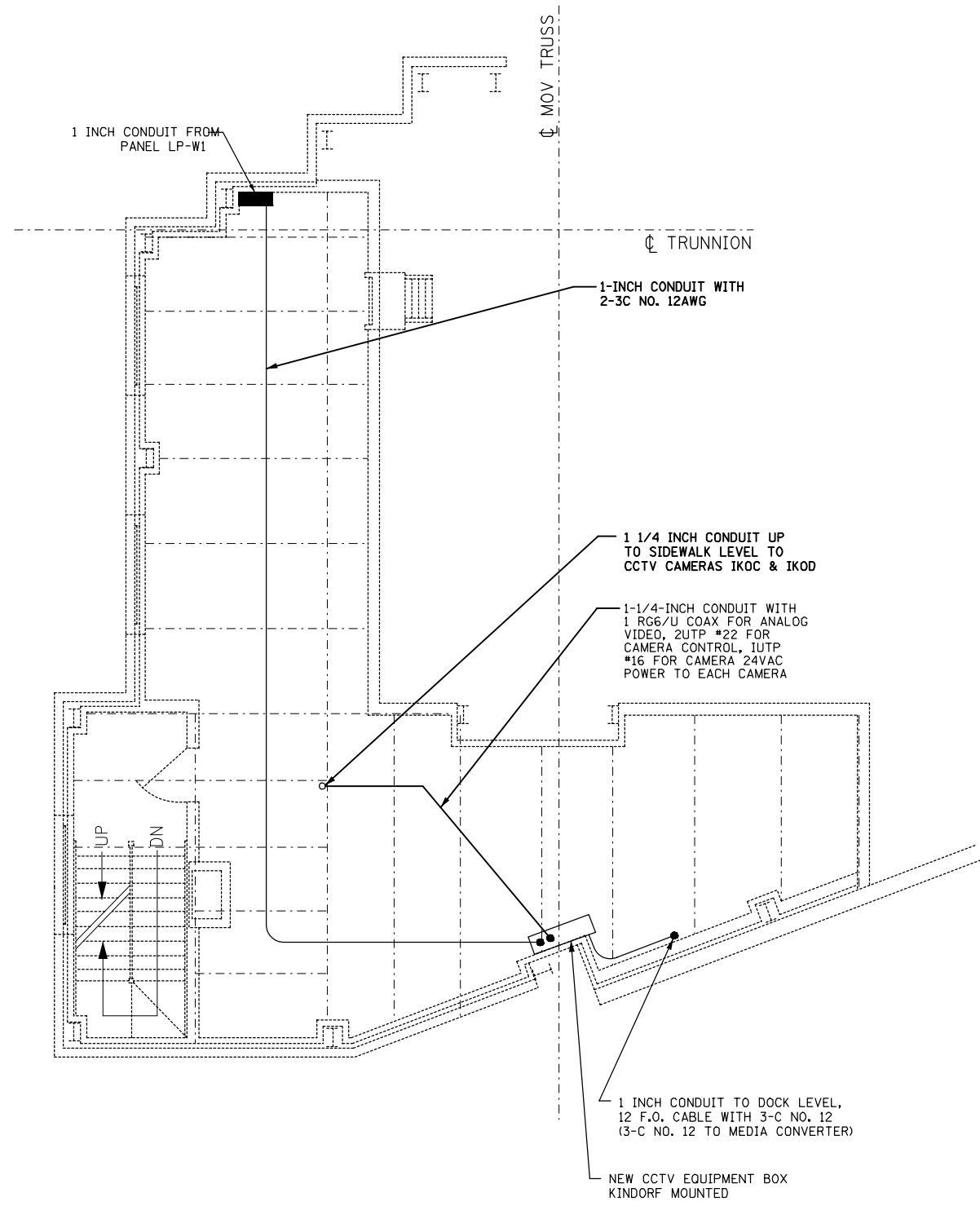
- NOTES:**
1. FOR GENERAL AND ELECTRICAL NOTES, SEE DWG'S 2, 3 & 4.
 2. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, SEE DWG. 5
 3. FOR PANEL SCHEDULES, SEE DWG 22.
 4. FOR EQUIPMENT DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.
 5. SURVEY EXISTING CIRCUITS IN THE SUBMARINE CABLE TUBE, REINSTALL AS REQUIRED WITH THE ADDITIONAL 96 STRAND F.O. CABLE. RETEST AND VERIFY EXISTING SYSTEM(S) FUNCTIONALITY UPON COMPLETION OF WORK.



NORTH WEST CONTROL HOUSE CCTV LAYOUT PLAN
N.T.S.

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PARSONS BRINCKERHOFF 230 West Monroe Street Suite 900 Chicago, IL 60609	USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY WEST SIDE DOCK LEVEL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME	DRAWN - E. MALUSEL	REVISED -		389	2013-026-I	COOK	37	17			
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -		SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				
	PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -		CONTRACT NO. 60W49							



NORTH WEST SIDE MEZZANINE LEVEL CONTROL HOUSE CCTV LAYOUT PLAN
N.T.S.

- NOTES:**
1. FOR GENERAL AND ELECTRICAL NOTES, SEE DWG'S 2, 3 & 4.
 2. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, SEE DWG. 5
 3. FOR PANEL SCHEDULES, SEE DWG 22.
 4. FOR EQUIPMENT DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.

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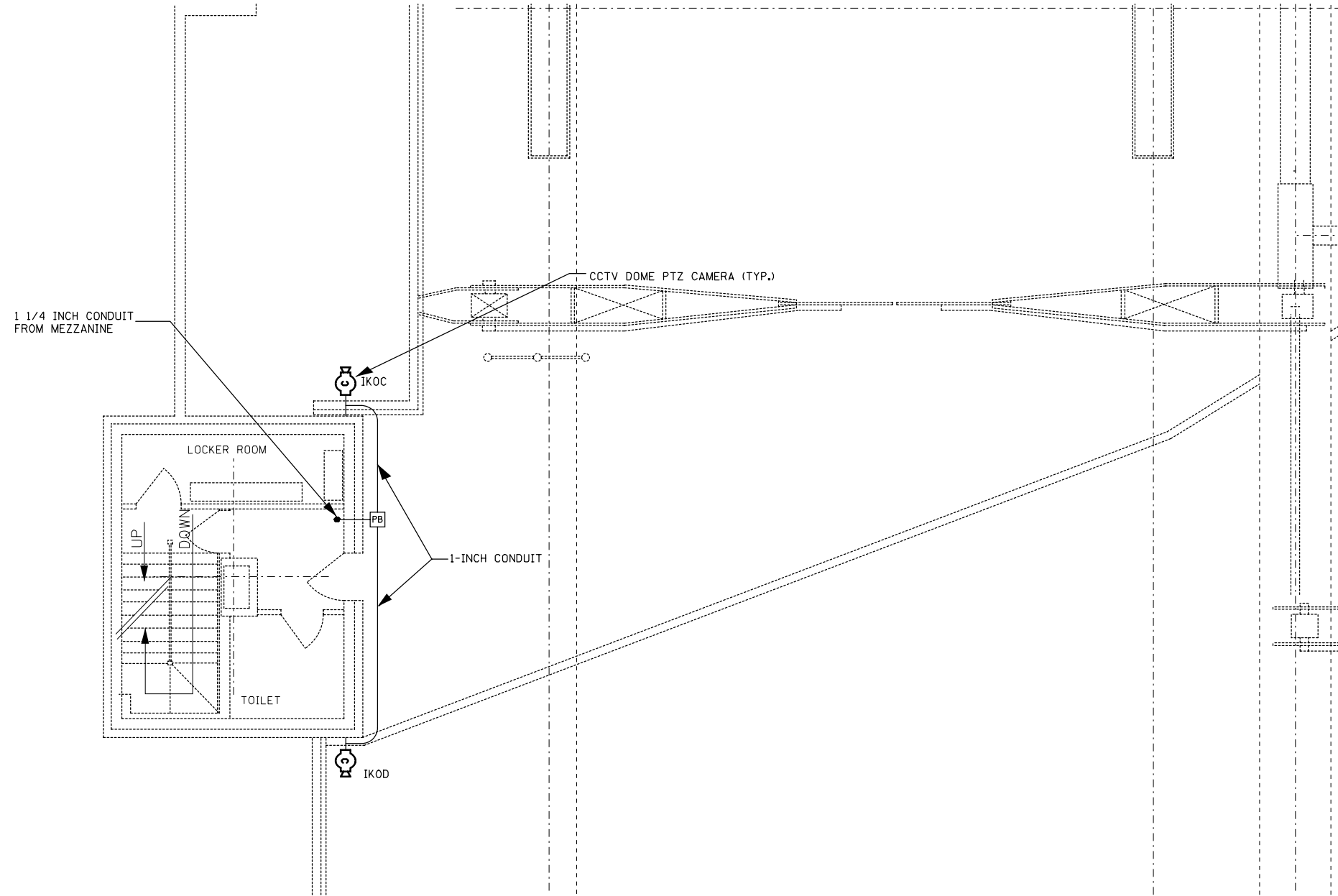
USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
WEST SIDE MEZZANINE LEVEL

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	18
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:**
1. FOR GENERAL AND ELECTRICAL NOTES, SEE DWG'S 2, 3 & 4.
 2. FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS, SEE DWG. 5
 3. FOR PANEL SCHEDULES, SEE DWG 22.
 4. FOR EQUIPMENT DESCRIPTIONS SEE ELECTRICAL SPECIFICATIONS.

NORTH WEST SIDE SIDEWALK LEVEL CCTV LAYOUT PLAN
N.T.S.

T:\16843A\CCTV\Files From NY\1689-17-2013\16843A-CCTV-E14-19-Wst-SidewalkLvl_REV_101613.dgn 28-OCT-2013 13:46



USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
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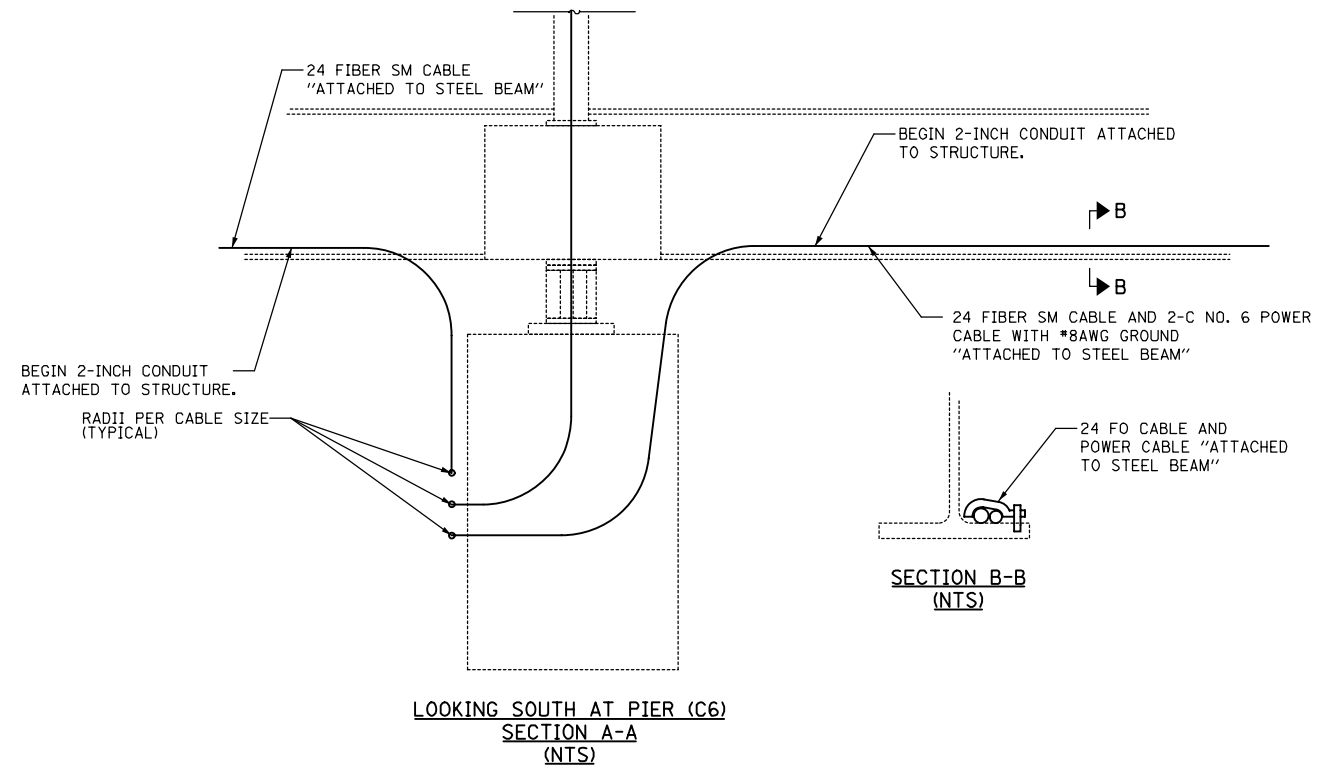
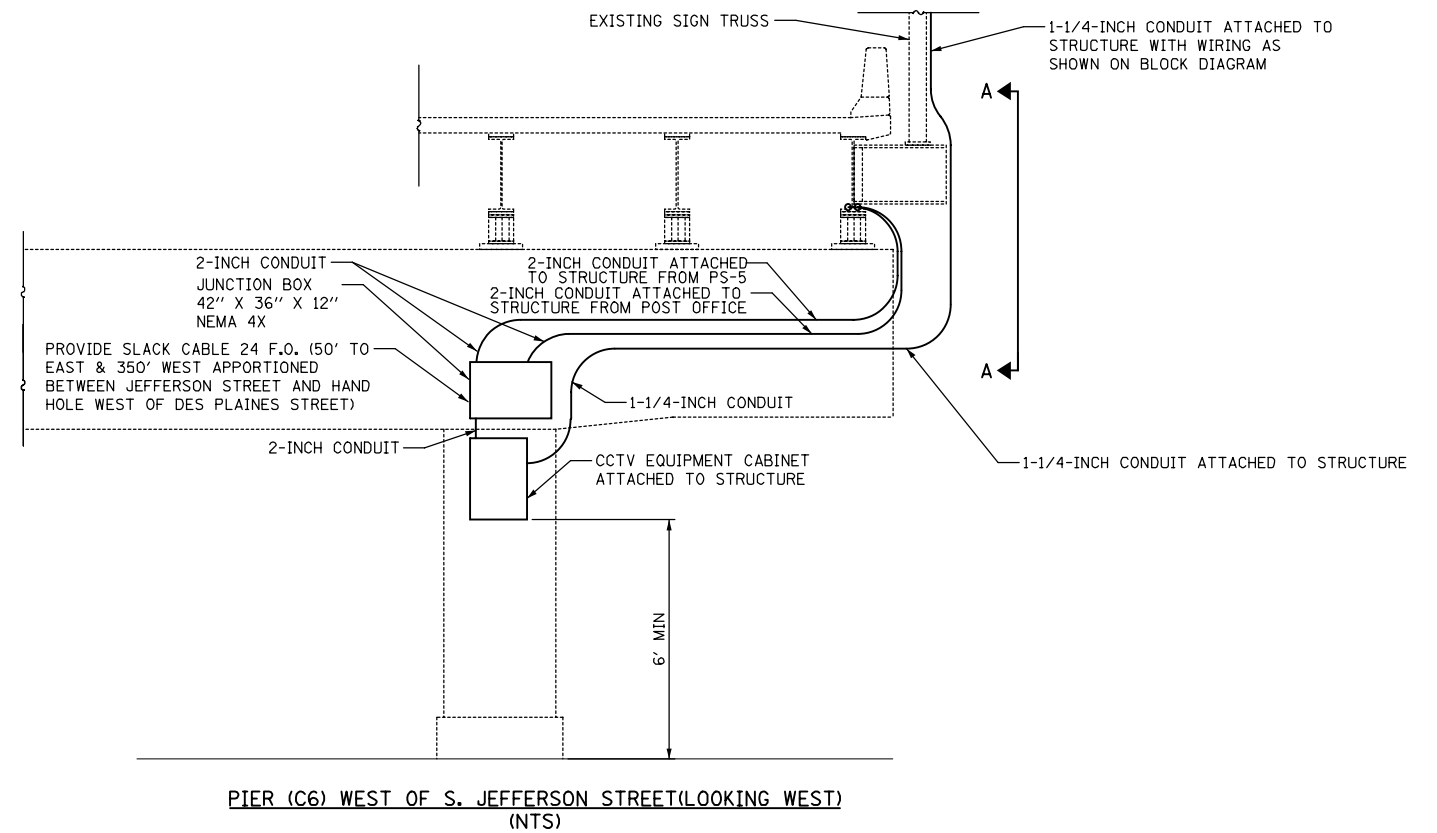
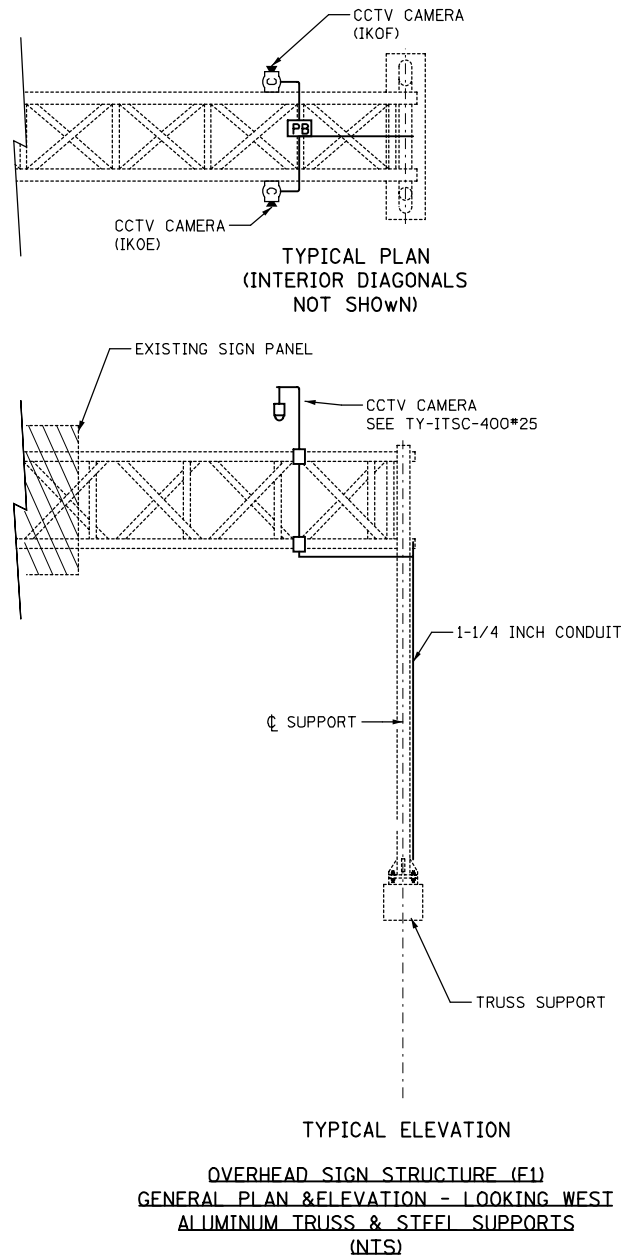
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
WEST SIDE SIDEWALK LEVEL

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	19
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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28-OCT-2013 13:46

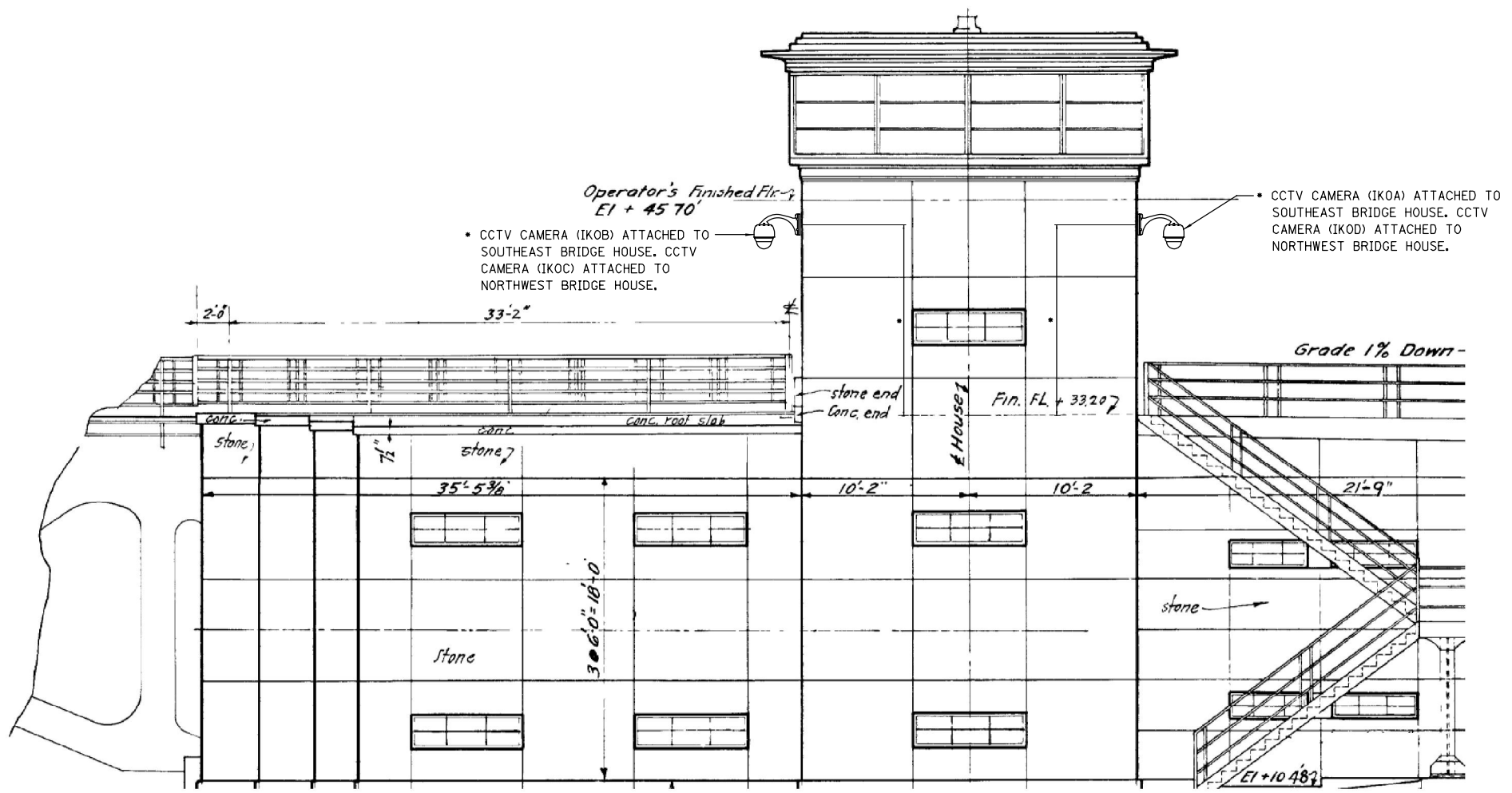


USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
CCTV DETAIL AT JEFFERSON STREET

SCALE: AS SHOWN	SHEET NO. OF SHEETS	STA. 353+46.00 TO STA. 382+50.00	F.A.P. RTE. 389	SECTION 2013-026-I	COUNTY COOK	TOTAL SHEETS 37	SHEET NO. 20
CONTRACT NO. 60W49						FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	



SOUTH ELEVATION OF SOUTHEAST BRIDGE HOUSE

NORTH ELEVATION OF NORTHWEST BRIDGE HOUSE
SIMILAR EXCEPT STAIRS ARE OMITTED

NOTES:

1. CONTRACTOR SHALL SUBMIT MOUNTING BRACKET DETAIL TO THE ENGINEER FOR APPROVED. DAMAGE TO THE EXISTING STONE DURING THE INSTALLATION OF THE MOUNTING BRACKET AND CCTV.
2. CAMERA SYSTEM SHALL BE THE CONTRACTOR RESPONSIBILITY AND DAMAGED AND DAMAGED STONE SHALL BE REPLACED AT NO COST TO IDOT.
3. MOUNTING BRACKET AND ACCESSORIES FOR CCTV CAMERA IS INCLUDED IN THE COST OF CCTV CAMERA INSTALLATION.

- CONTRACTOR SHALL VERIFY LOCATION (HORIZONTALLY AND VERTICALLY) WITH ENGINEER PRIOR TO INSTALLATION.

T:\16843A\CCTV\CADD\16843A-CongrPrkBr-CCTV_E-08_BH.dgn 28-OCT-2013 13:46

PARSONS BRINCKERHOFF 230 West Monroe Street Suite 900 Chicago, IL 60609	USER NAME = pteid	DESIGNED - SN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY CCTV CAMERA ATTACHED TO BRIDGE HOUSE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME	DRAWN - DCP	REVISED -			389	2013-026-I	COOK	37	21
	PLOT SCALE = NONE	CHECKED - SN	REVISED -			CONTRACT NO. 60W49				
	PLOT DATE = 10/28/2013	DATE - 10/18/2013	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
					SCALE: AS SHOWN	SHEET NO.	OF	SHEETS	STA. 353+46.00 TO STA. 382+50.00	

PANEL DESIGNATION: LP-E1										VOLTAGE: 208/120V, 3PH, 4W, 60HZ									
LOCATION: EAST SIDE MEZZANINE										MAIN CKT BRK: 225AF, 150AT, 3POLE									
TYPE: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE										MAINS: 225AMP, <input checked="" type="checkbox"/> TOP, <input type="checkbox"/> BOTTOM, <input type="checkbox"/> MLO									
LOAD DESCRIPTION	BREAKER		VA			CKT	Circuit Diagram	CKT	VA			BREAKER		LOAD DESCRIPTION					
	POLE	TRIP	A	B	C				A	B	C	TRIP	POLE						
MEZZ LEVEL LIGHTING	1	20	520			1		2	696			20	I	DOCK LEVEL LIGHTING					
MEZZ LEVEL LIGHTING	1	20		520		3		4	696			20	I	DOCK LEVEL LIGHTING					
EXIT LIGHT	1	20				5		6		1071		20	I	STAIR LIGHTING					
DOCK LEVEL LIGHTING	1	20	924			7		8	1271			20	I	DOCK LEVEL RECEPTACLES					
DOCK LEVEL LIGHTING	1	20		924		9		10		1059		20	I	DOCK LEVEL RECEPTACLES					
FIRE ALARM CONTROL PANEL	1	20			600	11		12				20	I	SPARE					
DOCK LEVEL LIGHTING	1	20	924			13		14	1059			20	I	MEZZ RECEPTACLES					
DOCK LEVEL LIGHTING	1	20		693		15		16		847		20	I	MEZZ RECEPTACLES					
SPARE	1	20				17		18				20	I	SPARE					
EMER BATT UNIT DOCK LEVEL	1	20	276			19		20	924			20	I	DOCK LEVEL LIGHTING					
EMER BATT UNIT DOCK LEVEL	1	20		276		21		22		924		20	I	DOCK LEVEL LIGHTING					
SPARE	1	20				23		24				20	I	SPARE					
CCTV CAMERA POWER SUPPLY	1	20	200			25		26	237			20	I	EMERG BAT UNIT					
SPARE	1	20				27		28		237		20	I	EMERG BAT UNIT					
RECEPTACLES	1	20			720	29		30			609	20	I	LTG VERTICAL CORE					
SPACE	1					31		32					I	SPACE					
SPACE	1					33		34					I	SPACE					
SPACE	1					35		36					I	SPACE					
SPACE	1					37		38					I	SPACE					
SPACE	1					39		40					I	SPACE					
SPACE	1					41		42					I	SPACE					

--- N --- G

VOLT AMPS:	PH A = 7,031	PH B = 6,176	PH C = 3,000
TOTAL VOLT AMPS = 16,207	AMPS = 45	AIC-RMS = 22,000	⊙ 208VAC, 3PHASE

PANEL DESIGNATION: LP-W1										VOLTAGE: 208/120V, 3PH, 4W, 60HZ									
LOCATION: WEST SIDE MEZZANINE										MAIN CKT BRK: 225AF, 150AT, 3POLE									
TYPE: <input type="checkbox"/> FLUSH <input checked="" type="checkbox"/> SURFACE										MAINS: 225AMP, <input checked="" type="checkbox"/> TOP, <input type="checkbox"/> BOTTOM, <input type="checkbox"/> MLO									
LOAD DESCRIPTION	BREAKER		VA			CKT	Circuit Diagram	CKT	VA			BREAKER		LOAD DESCRIPTION					
	POLE	TRIP	A	B	C				A	B	C	TRIP	POLE						
MEZZ LEVEL LIGHTING	1	20	433			1		2	609			20	I	DOCK LEVEL LIGHTING					
MEZZ LEVEL LIGHTING	1	20		520		3		4		522		20	I	DOCK LEVEL LIGHTING					
EXIT LIGHT	1	20				5		6			609	20	I	STAIR LIGHTING					
DOCK LEVEL LIGHTING	1	20	693			7		8	1059			20	I	DOCK LEVEL RECEPTACLES					
DOCK LEVEL LIGHTING	1	20		462		9		10		1270		20	I	DOCK LEVEL RECEPTACLES					
FIRE ALARM CONTROL PANEL	1	20			600	11		12				20	I	SPARE					
DOCK LEVEL LIGHTING	1	20	693			13		14	847			20	I	MEZZ LEVEL RECEPTACLES					
DOCK LEVEL LIGHTING	1	20		693		15		16		1059		20	I	MEZZ LEVEL RECEPTACLES					
SPARE	1	20				17		18				20	I	SPARE					
EMER BATT UNIT DOCK LEVEL	1	20	276			19		20	693			20	I	DOCK LEVEL LIGHTING					
EMER BATT UNIT DOCK LEVEL	1	20		276		21		22		693		20	I	DOCK LEVEL LIGHTING					
SPARE	1	20				23		24				20	I	SPARE					
CCTV CAMERA POWER SUPPLY	1	20	200			25		26	237			20	I	EMERG BAT UNIT					
HEATER & F.O. MEDIA CONVERTER	1	20	400			27		28		237		20	I	EMERG BAT UNIT					
RECPTACLE	1	20			720	29		30			609	20	I	LTG VERTICAL CORE					
SPACE	1					31		32					I	SPACE					
SPACE	1					33		34					I	SPACE					
SPACE	1					35		36					I	SPACE					
SPACE	1					37		38					I	SPACE					
SPACE	1					39		40					I	SPACE					
SPACE	1					41		42					I	SPACE					

--- N --- G

VOLT AMPS:	PH A = 5,740	PH B = 6,132	PH C = 2,538
TOTAL VOLT AMPS = 14,410	AMPS = 40	AIC-RMS = 22,000	⊙ 208VAC, 3PHASE

T:\16843A\CCTVFiles from NY189-17-2013\16843A-CCTV-E15-20_PanelSchedule.dgn 28-OCT-2013 13:46



USER NAME = pteid
 FILE NAME
 PLOT SCALE = NONE
 PLOT DATE = 10/18/2013

DESIGNED - D. DRAKULICH
 DRAWN - E. MALUSEL
 CHECKED - S. STERN
 DATE - 10/18/2013

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
 PANEL SCHEDULES**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	22
CONTRACT NO. 60W49			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	

T:\168434\CCTVFiles from NY19-17-2013\12-strand-lateral.dgn
28-OCT-2013 13:46

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-EBH		
FIBER NO	FUNCTION	CONNECTION
1	CCTV CAMERA IKOA (at Southeast Bridge House)	Fiber #1 of 96-strand cable
2	CCTV CAMERA IKOB (at Southeast Bridge House)	Fiber #2 of 96-strand cable
3	DARK	
4	DARK	
5	DARK	
6	DARK	
7	DARK	
8	DARK	
9	DARK	
10	DARK	
11	DARK	
12	DARK	

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-SJS		
FIBER NO	FUNCTION	CONNECTION
1	CCTV CAMERA IKOE (at So. JEfferson St.)	Fiber #7 of 24-strand cable
2	CCTV CAMERA IKOF (at So. JEfferson St.)	Fiber #8 of 24-strand cable
3	DARK	
4	DARK	
5	DARK	
6	DARK	
7	DARK	
8	DARK	
9	DARK	
10	DARK	
11	DARK	
12	DARK	

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-WBH		
FIBER NO	FUNCTION	CONNECTION
1	CCTV CAMERA IKOC (at Northwest Bridge House)	Fiber #3 of 24-strand cable
2	CCTV CAMERA IKOD (at Northwest Bridge House)	Fiber #4 of 24-strand cable
3	DARK	
4	DARK	
5	DARK	
6	DARK	
7	DARK	
8	DARK	
9	DARK	
10	DARK	
11	DARK	
12	DARK	

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



USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	23
CONTRACT NO. 60W49			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

TRUNK CABLE FIBER ASSIGNMENTS			
TRUNK CABLE DESIGNATION		TCF-24strand	
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT
BLUE	Blue	1	CCTV CAMERA IK0A (at SE Br. Hse.) via Fiber #1 of 96-strand cable
	Orange	2	CCTV CAMERA IK0B (at SE Br. Hse.) via Fiber #2 of 96-strand cable
	Green	3	CCTV CAMERA IK0C (at Northwest Bridge House)
	Brown	4	CCTV CAMERA IK0D (at Northwest Bridge House)
	Slate	5	DMS Controller Ethernet Tx line
	White	6	DMS Controller Ethernet Rx line
	Red	7	CCTV CAMERA IK0E (at So. Jefferson St.)
	Black	8	CCTV CAMERA IK0F (at So. Jefferson St.)
	Yellow	9	DARK
	Violet	10	DARK
	Rose	11	DARK
	Aqua	12	DARK
ORANGE	Blue	13	DARK
	Orange	14	DARK
	Green	15	DARK
	Brown	16	DARK
	Slate	17	DARK
	White	18	DARK
	Red	19	DARK
	Black	20	DARK
	Yellow	21	DARK
	Violet	22	DARK
	Rose	23	DARK
	Aqua	24	DARK

T:\16843A\CCTVFiles from NY19-17-2013\24-strand trunk.dgn
 28-OCT-2013 13:46



USER NAME = pteid	DESIGNED - D. DRAKULICH	REVISED -
FILE NAME	DRAWN - E. MALUSEL	REVISED -
PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -
PLOT DATE = 10/18/2013	DATE - 10/18/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
24 FIBER TRUNK CABLE FIBER ASSIGNMENTS**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	24
CONTRACT NO. 60W49			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION			
TRUNK CABLE DESIGNATION		TCF-96strand		DESTINATION			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER NO	FIBER NO	ASSIGNMENT
BLUE	Blue	1	CCTV CAMERA IKOA (at Southeast Bridge House)	SLATE	Blue	49	DARK
	Orange	2	CCTV CAMERA IKOB (at Southeast Bridge House)		Orange	50	DARK
	Green	3	DARK		Green	51	DARK
	Brown	4	DARK		Brown	52	DARK
	Slate	5	DARK		Slate	53	DARK
	White	6	DARK		White	54	DARK
	Red	7	DARK		Red	55	DARK
	Black	8	DARK		Black	56	DARK
	Yellow	9	DARK		Yellow	57	DARK
	Violet	10	DARK		Violet	58	DARK
	Rose	11	DARK		Rose	59	DARK
	Aqua	12	DARK		Aqua	60	DARK
ORANGE	Blue	1	DARK	WHITE	Blue	61	DARK
	Orange	2	DARK		Orange	62	DARK
	Green	3	DARK		Green	63	DARK
	Brown	4	DARK		Brown	64	DARK
	Slate	5	DARK		Slate	65	DARK
	White	6	DARK		White	66	DARK
	Red	7	DARK		Red	67	DARK
	Black	8	DARK		Black	68	DARK
	Yellow	9	DARK		Yellow	69	DARK
	Violet	10	DARK		Violet	70	DARK
	Rose	11	DARK		Rose	71	DARK
	Aqua	12	DARK		Aqua	72	DARK
GREEN	Blue	1	DARK	RED	Blue	73	DARK
	Orange	2	DARK		Orange	74	DARK
	Green	3	DARK		Green	75	DARK
	Brown	4	DARK		Brown	76	DARK
	Slate	5	DARK		Slate	77	DARK
	White	6	DARK		White	78	DARK
	Red	7	DARK		Red	79	DARK
	Black	8	DARK		Black	80	DARK
	Yellow	9	DARK		Yellow	81	DARK
	Violet	10	DARK		Violet	82	DARK
	Rose	11	DARK		Rose	83	DARK
	Aqua	12	DARK		Aqua	84	DARK
BROWN	Blue	1	DARK	BLACK	Blue	85	DARK
	Orange	2	DARK		Orange	86	DARK
	Green	3	DARK		Green	87	DARK
	Brown	4	DARK		Brown	88	DARK
	Slate	5	DARK		Slate	89	DARK
	White	6	DARK		White	90	DARK
	Red	7	DARK		Red	91	DARK
	Black	8	DARK		Black	92	DARK
	Yellow	9	DARK		Yellow	93	DARK
	Violet	10	DARK		Violet	94	DARK
	Rose	11	DARK		Rose	95	DARK
	Aqua	12	DARK		Aqua	96	DARK



USER NAME = pteid
 FILE NAME
 PLOT SCALE = NONE
 PLOT DATE = 10/18/2013

DESIGNED - D. DRAKULICH
 DRAWN - E. MALUSEL
 CHECKED - S. STERN
 DATE - 10/18/2013

REVISED -
 REVISED -
 REVISED -
 REVISED -

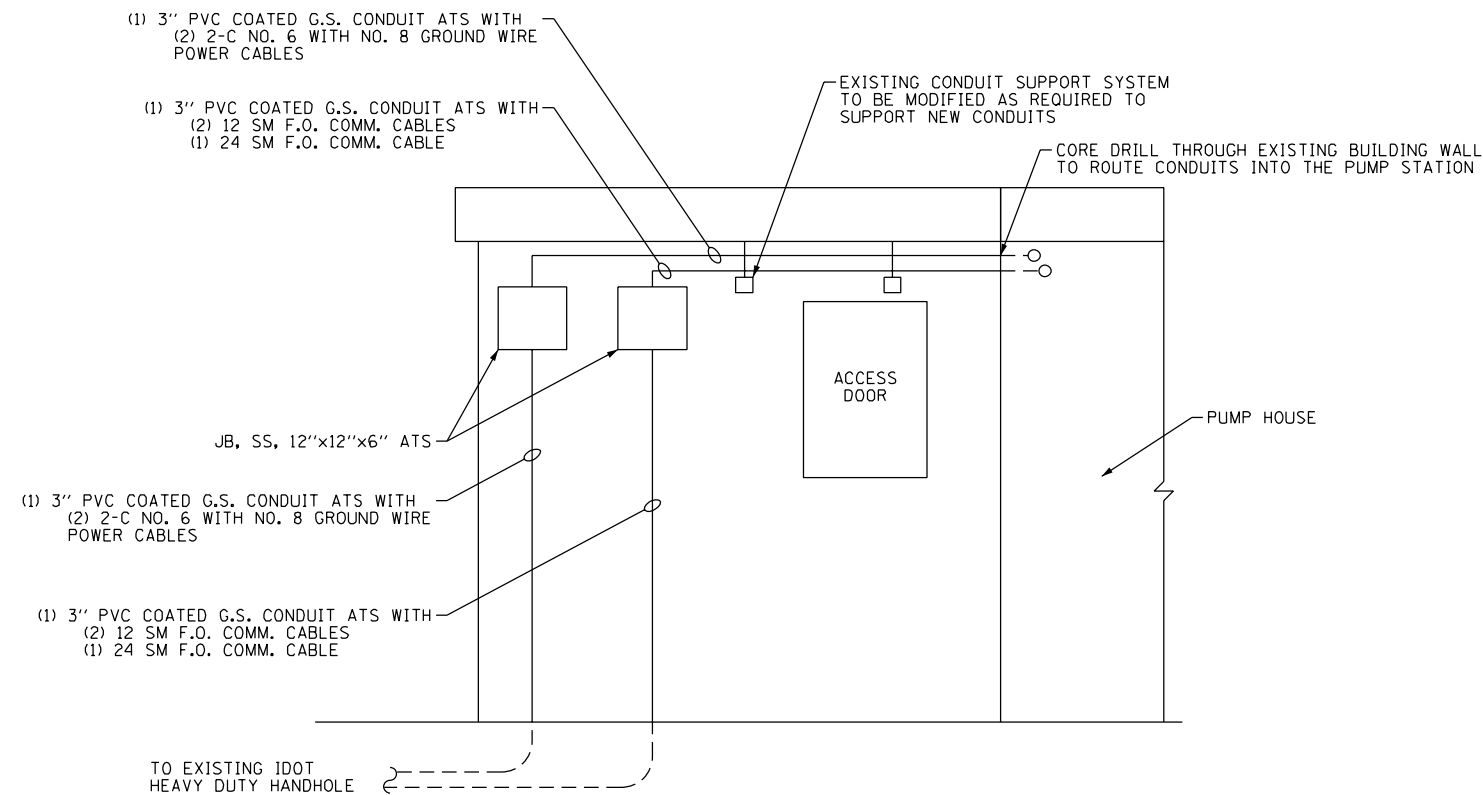
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
 96 FIBER TRUNK CABLE FIBER ASSIGNMENTS

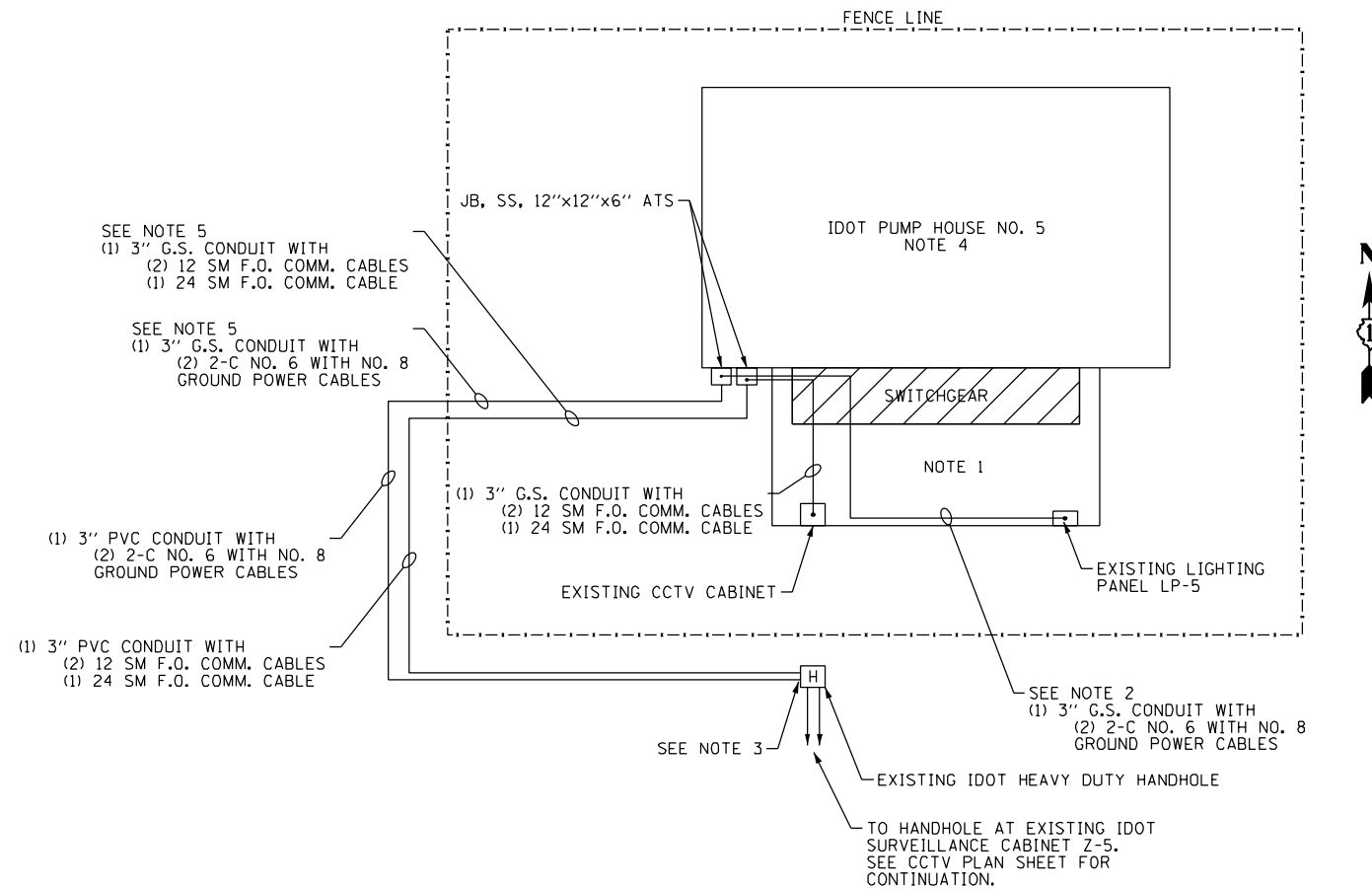
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	25
CONTRACT NO. 60W49			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT	

FILE PATH = p:\388035-p\int\ecommon\line\local\p\wecdm00\Documents\01_Americas\Transportation\6269938_Circle\Phase 1\000_CAD\006_Roadway\Sheets\60W49-sh-ITS-02



IDOT PUMP STATION NO. 5 – PARTIAL ELEVATION VIEW (LOOKING NORTH)
NOT TO SCALE



IDOT PUMP STATION NO. 5 – PLAN VIEW
NOT TO SCALE

NOTES:

1. ALL WORK TO INSTALL THE POWER AND FIBER OPTIC CABLES IN CONDUIT FROM THE NEW JUNCTION BOXES TO THE CCTV CABINET AND LIGHTING PANEL SHALL BE INCLUDED IN THE LUMP SUM "PUMP STATION ELECTRICAL WORK" PAY ITEM.
2. CONNECT THE CCTV CAMERA POWER CABLES TO TWO EXISTING SPARE 1-POLE, 20 AMP CIRCUIT BREAKERS LOCATED IN THE EXISTING LIGHTING PANEL.
3. THE CONTRACTOR SHALL DRILL THROUGH THE EXISTING HEAVY DUTY HANDHOLE WALL TO CONNECT THE NEW 3" CONDUITS AS SHOWN.
4. ALL WORK SHALL BE COORDINATED WITH IDOT PUMP STATION MAINTENANCE PERSONNEL.
5. SAW CUT AND REMOVE THE EXISTING PAVEMENT TO INSTALL THE CONDUIT. THE PAVEMENT SHALL BE RESTORED AND THE TRENCH FILLED. THE WORK TO REMOVE AND RESTORED THE EXISTING PAVEMENT INCLUDING ALL MATERIALS, DISPOSAL AND BACKFILLING WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE "UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA." PAY ITEM.



D160W49-sh-ITS-02	DESIGNED - WDS	REVISED -
USER NAME = locherj	DRAWN - CAM	REVISED -
PLOT SCALE = 2.0000' / 1"	CHECKED - WDS	REVISED -
PLOT DATE = 10/21/2013	DATE - 10/18/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV SYSTEM, I-90/94 CONGRESS PARKWAY
PUMP STATION DETAILS**

SCALE: NONE SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-26-1	COOK	37	26
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE PATH = p:\388035-pur\1\ecommon\me\local\PM\ECM\00\Documents\01_Americas\Transportation\6269938_Circle\Phase_1\000_CAD\006_Roadway\Sheets\60W49-shr-ITS-03

TRUNK CABLE FIBER ASSIGNMENTS				ORIGINATION	CIRCLE INTERCHANGE COMM. HUT			
TRUNK CABLE DESIGNATION		TCF- I-290 EAST		DESTINATION	OAK PARK TSC			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER NO	FIBER NO	ASSIGNMENT	
BLUE	Blue	1	1-290 CCTV	SLATE	Blue	49	Kennedy PTZ Cameras 1,2,3 BLD A to HUB	
	Orange	2	1-290 CCTV		Orange	50	PS-5 Cameras 1,2,3 PS-5 to HUB	
	Green	3	1-290 CCTV		Green	51	Microwave Hut Cameras 1,2,3,4 Microwave Hut to HUB	
	Brown	4	1-290 CCTV		Brown	52	Microwave Hut Cameras 5,6,7 Microwave Hut to HUB	
	Slate	5	COMM. HUT CCTV FIBER #1 (IKOI) TO TSC FIBER #5		Slate	53	Homeland Security to I-290 hut to Bld A (Optelicom)	
	White	6	COMM. HUT CCTV FIBER #2 (IKOJ) TO TSC FIBER #6		White	54	Dark	
	Red	7	PS-5 FIBER #13 (IKOG) TO TSC FIBER #7		Red	55	Dark	
	Black	8	PS-5 FIBER #14 (IKOH) TO TSC FIBER #8		Black	56	Dark	
	Yellow	9	Dark		Yellow	57	ITS GigE Switch	
	Violet	10	Dark		Violet	58	ITS GigE Switch	
	Rose	11	IMC media converter (Revlac Alarm Screen)		Rose	59	Dark	
	Aqua	12	IMC media converter (Revlac Alarm Screen)		Aqua	60	Dark	
ORANGE	Blue	13	Dark	WHITE	Blue	61	I-57 Imux T1 Chassis	
	Orange	14	Dark		Orange	62	I-57 Imux T1 Chassis	
	Green	15	Dark		Green	63	Dark	
	Brown	16	Dark		Brown	64	Dark	
	Slate	17	Dark		Slate	65	Polk AIS CCTV	
	White	18	Dark		White	66	Dark	
	Red	19	I-55 T1 SURVEILLANCE DATA KING DRIVE TO TRI-STATE TRANSMIT CIRCUIT		Red	67	Dark	
	Black	20	I-55 T1 SURVEILLANCE DATA KING DRIVE TO TRI-STATE RECEIVE CIRCUIT		Black	68	Dark	
	Yellow	21	KIDS camera 13,14,15		Yellow	69	Dark	
	Violet	22	Dark		Violet	70	Dark	
	Rose	23	Dark		Rose	71	Dark	
	Aqua	24	Kennedy PTZ Cameras 1,2,3 Blue Tube,Fiber #3		Aqua	72	Dark	
GREEN	Blue	25	Dark	RED	Blue	73	CISCO 15454 OC-48 DVS	
	Orange	26	Dark		Orange	74	CISCO 15454 OC-48 DVS	
	Green	27	Kennedy Core Imux RX port #27		Green	75	CISCO 15454 OC-48 DVS	
	Brown	28	Kennedy Core Imux TX port #28		Brown	76	CISCO 15454 OC-48 DVS	
	Slate	29	Dark		Slate	77	Dark	
	White	30	Dark		White	78	Dark	
	Red	31	Touhy Ave. DMS		Red	79	Dark	
	Black	32	Touhy Ave. DMS		Black	80	Dark	
	Yellow	33	PS-5 FIBER #21 (IKOE) TO TSC FIBER #33		Yellow	81	Dark	
	Violet	34	PS-5 FIBER #22 (IKOF) TO TSC FIBER #34		Violet	82	Dark	
	Rose	35	Dark		Rose	83	REVLAC Data	
	Aqua	36	Dark		Aqua	84	REVLAC Data	
BROWN	Blue	37	PUMP STATION SYSTEM	BLACK	Blue	85	Dark	
	Orange	38	PUMP STATION SYSTEM		Orange	86	Dark	
	Green	39	PUMP STATION SYSTEM		Green	87	Dark	
	Brown	40	PUMP STATION SYSTEM		Brown	88	Dark	
	Slate	41	Addison Camera		Slate	89	REVLAC DATA	
	White	42	PS-5 FIBER #15 (IKOA) TO TSC FIBER #42		White	90	REVLAC DATA	
	Red	43	PS-5 FIBER #16 (IKOB) TO TSC FIBER #43		Red	91	Homeland Security to Hillside Hub	
	Black	44	PS-5 FIBER #17 (IKOC) TO TSC FIBER #44		Black	92	Dark	
	Yellow	45	PS-5 FIBER #18 (IKOD) TO TSC FIBER #45		Yellow	93	Dark	
	Violet	46	PS-5 FIBER #19 (DMS TX) TO TSC FIBER #46		Violet	94	Dark	
	Rose	47	PS-5 FIBER #20 (DMS RX) TO TSC FIBER #47		Rose	95	Dark	
	Aqua	48	Dark		Aqua	96	Temp Video Bld A to Hub	



D160W49-shr-ITS-03
 USER NAME = lacherj
 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 10/21/2013

DESIGNED - JML
 DRAWN - JML
 CHECKED - WDS
 DATE - 10/18/2013

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
 TRUNK CABLE FIBER ASSIGNMENTS

SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-26-1	COOK	37	27
BE-2100			CONTRACT NO. 60W49	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION	PUMP STATION 5			
DISTRIBUTION CABLE DESIGNATION		DCF- PUMP STATION 5 48 FIBER		DESTINATION	CIRCLE INTERCHANGE COMMUNICATIONS HUT			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER NO	FIBER NO	ASSIGNMENT	
BLUE	Blue	1	BEO CCTV I-290/DAN RYAN INTERCHANGE VIDEO CAMERAS 1,2,3 TO TSC	SLATE	Blue	49		
	Orange	2	BEO CCTV I-290/DAN RYAN INTERCHANGE VIDEO CAMERAS 1,2,3 TO HUB		Orange	50		
	Green	3	PS-5 FIBER #3 TO BLD A FIBER #26		Green	51		
	Brown	4	PS-5 FIBER #4 TO BLD A FIBER #8		Brown	52		
	Slate	5	DARK		Slate	53		
	White	6	DARK		White	54		
	Red	7	DARK		Red	55		
	Black	8	DARK		Black	56		
	Yellow	9	DARK		Yellow	57		
	Violet	10	DARK		Violet	58		
	Rose	11	DARK		Rose	59		
	Aqua	12	DARK		Aqua	60		
ORANGE	Blue	13	PS-5 CCTV FIBER #1 (IKOG) TO PS-5 FIBER #13	WHITE	Blue	61		
	Orange	14	PS-5 CCTV FIBER #2 (IKOH) TO PS-5 FIBER #14		Orange	62		
	Green	15	CONGRESS PKWY FIBER #1 (IKOA) TO PS-5 FIBER #15		Green	63		
	Brown	16	CONGRESS PKWY FIBER #2 (IKOB) TO PS-5 FIBER #16		Brown	64		
	Slate	17	CONGRESS PKWY FIBER #3 (IKOC) TO PS-5 FIBER #17		Slate	65		
	White	18	CONGRESS PKWY FIBER #4 (IKOD) TO PS-5 FIBER #18		White	66		
	Red	19	CONGRESS PKWY FIBER #5 (DMS TX) TO PS-5 FIBER #19		Red	67		
	Black	20	CONGRESS PKWY FIBER #6 (DMS RX) TO PS-5 FIBER #20		Black	68		
	Yellow	21	CONGRESS PKWY FIBER #7 (IKOE) TO PS-5 FIBER #21		Yellow	69		
	Violet	22	CONGRESS PKWY FIBER #8 (IKOF) TO PS-5 FIBER #22		Violet	70		
	Rose	23	DARK		Rose	71		
	Aqua	24	DARK		Aqua	72		
GREEN	Blue	25	DARK	RED	Blue	73		
	Orange	26	DARK		Orange	74		
	Green	27	DARK		Green	75		
	Brown	28	DARK		Brown	76		
	Slate	29	DARK		Slate	77		
	White	30	DARK		White	78		
	Red	31	DARK		Red	79		
	Black	32	DARK		Black	80		
	Yellow	33	DARK		Yellow	81		
	Violet	34	DARK		Violet	82		
	Rose	35	DARK		Rose	83		
	Aqua	36	DARK		Aqua	84		
BROWN	Blue	37	PS-5 FIBERS 37 AND 38 TO TSC FIBERS 37 AND 38	BLACK	Blue	85		
	Orange	38	PS-5 FIBERS 37 AND 38 TO TSC FIBERS 37 AND 38		Orange	86		
	Green	39	PS-5 FIBERS 39 AND 40 TO TSC FIBERS 39 AND 40		Green	87		
	Brown	40	PS-5 FIBERS 39 AND 40 TO TSC FIBERS 39 AND 40		Brown	88		
	Slate	41	PS-5 FIBERS 41 AND 42 TO I-55 FIBERS 95 AND 96		Slate	89		
	White	42	PS-5 FIBERS 41 AND 42 TO I-55 FIBERS 95 AND 96		White	90		
	Red	43	PS-5 FIBERS 43 AND 44 TO BLD A FIBERS 37 AND 38		Red	91		
	Black	44	PS-5 FIBERS 43 AND 44 TO BLD A FIBERS 37 AND 38		Black	92		
	Yellow	45	DARK		Yellow	93		
	Violet	46	DARK		Violet	94		
	Rose	47	DARK		Rose	95		
	Aqua	48	DARK		Aqua	96		

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 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 10/21/2013

DESIGNED - JML
 DRAWN - JML
 CHECKED - WDS
 DATE - 10/18/2013

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
 DISTRIBUTION CABLE FIBER ASSIGNMENTS

SCALE: NONE SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-26-1	COOK	37	28
BE-2110			CONTRACT NO. 60W49	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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LATERAL CABLE FIBER ASSIGNMENTS		
LCF- COMM. HUT HIGH MAST CCTV CAMERAS TO I-290 96 STRAND FIBER TRUNK CABLE		
FIBER NO	FUNCTION	CONNECTION
1	VIDEO AND CAMERA CONTROL	CCTV IKOI
2	VIDEO AND CAMERA CONTROL	CCTV IKOJ
3	DARK	DARK
4	DARK	DARK
5	DARK	DARK
6	DARK	DARK
7	DARK	DARK
8	DARK	DARK
9	DARK	DARK
10	DARK	DARK
11	DARK	DARK
12	DARK	DARK

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- PS-5 HIGH MAST CCTV CAMERAS TO PS-5 48 STRAND FIBER DISTRIBUTION CABLE		
FIBER NO	FUNCTION	CONNECTION
1	VIDEO AND CAMERA CONTROL	CCTV IKOG
2	VIDEO AND CAMERA CONTROL	CCTV IKOH
3	DARK	DARK
4	DARK	DARK
5	DARK	DARK
6	DARK	DARK
7	DARK	DARK
8	DARK	DARK
9	DARK	DARK
10	DARK	DARK
11	DARK	DARK
12	DARK	DARK

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



D160W49-sht-ITS-05
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 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 10/21/2013

DESIGNED - JML
 DRAWN - JML
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 DATE - 10/18/2013

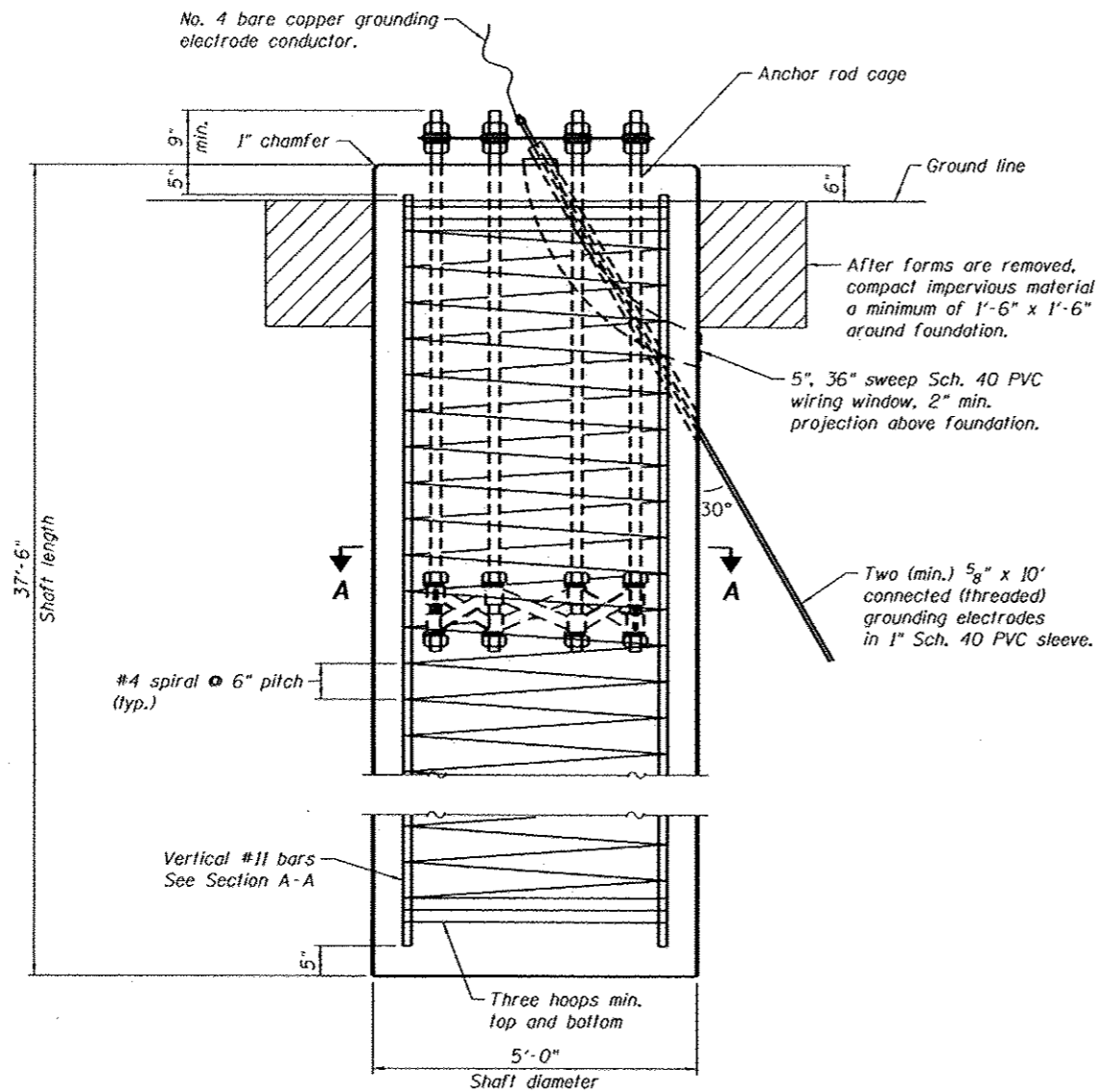
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

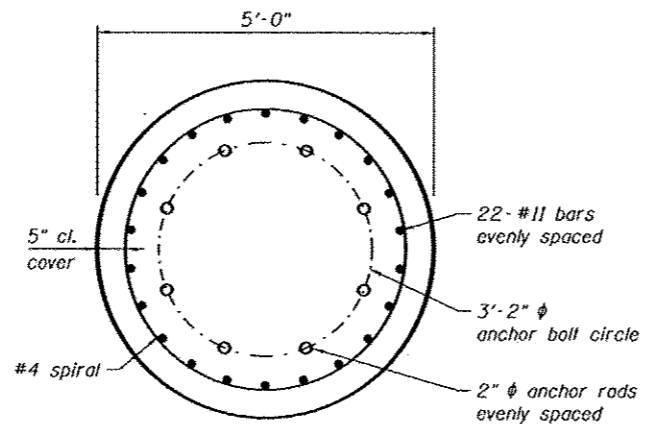
CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
 TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS

SCALE: NONE SHEET 5 OF 5 SHEETS STA. TO STA.

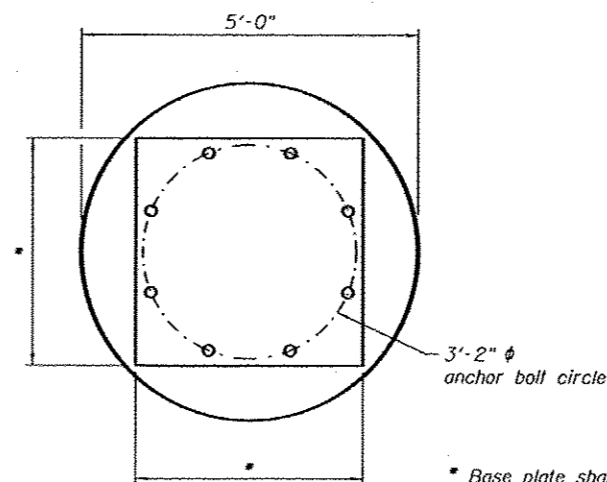
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-26-1	COOK	37	29
BE-2130			CONTRACT NO. 60W49	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FOUNDATION ELEVATION




SECTION A-A



BASE PLATE LAYOUT

NOTES:

1. The shaft length(s) are based on nearest available soil borings. If different soils are encountered, the engineer shall be notified to provide a revised length.
2. Anchor rod quantity, diameter and length shall be determined by the tower manufacturer and approved by the Engineer. Each foundation shall have a minimum of 8 anchor rods.
3. All foundation reinforcement steel shall be epoxy coated.
4. The cost of the foundation is incidental to the cost of the CCTV Tower.
5. 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.
6. The foundation shall be poured monolithically and shall have no construction joints.
7. Grounding electrodes shall be installed in an access well when there is a conflict in using the method shown.
8. Coordinate the rod circle diameter of the tower with the diameter of the anchor rod cage.


Amish T. Bhatt
 10/21/2013
 License Expires: 11/30/2014
 Sheet Range: 30 & 31

* Base plate shall be designed by the tower manufacturer and approved by the Engineer.

CCTV-60W49-S01-CCTV Tower Foundation.dgn



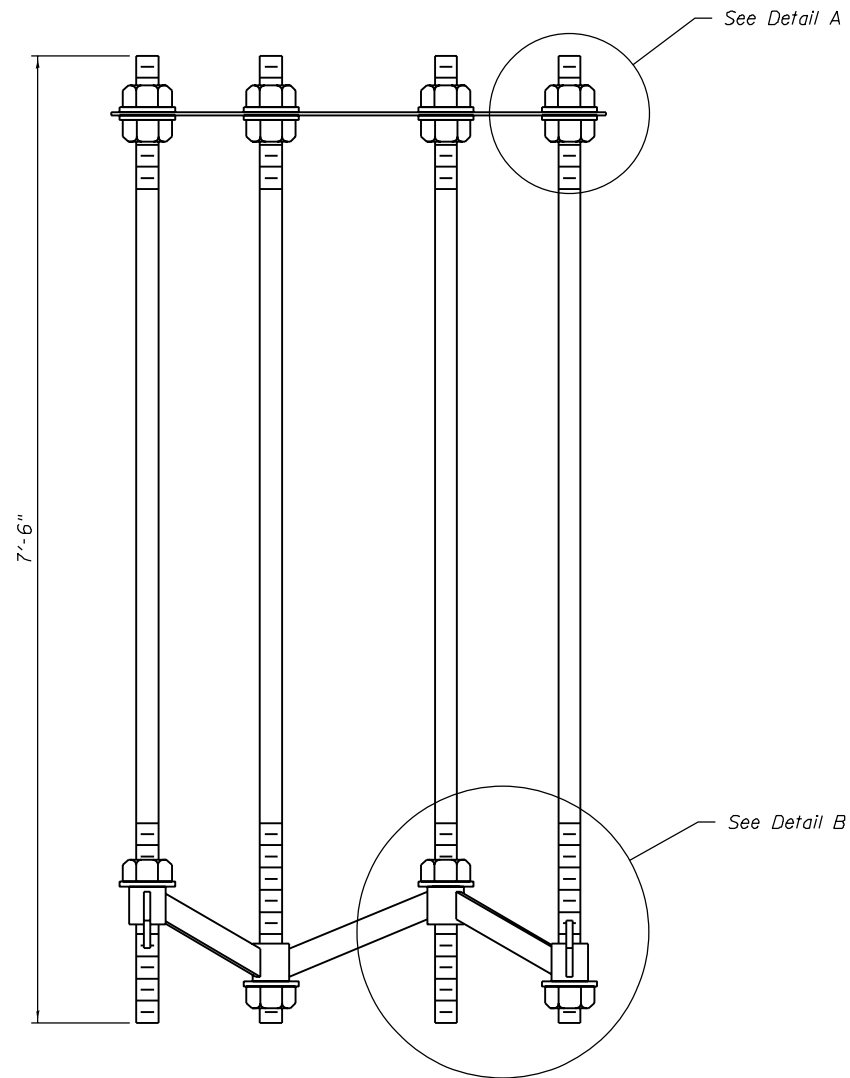
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

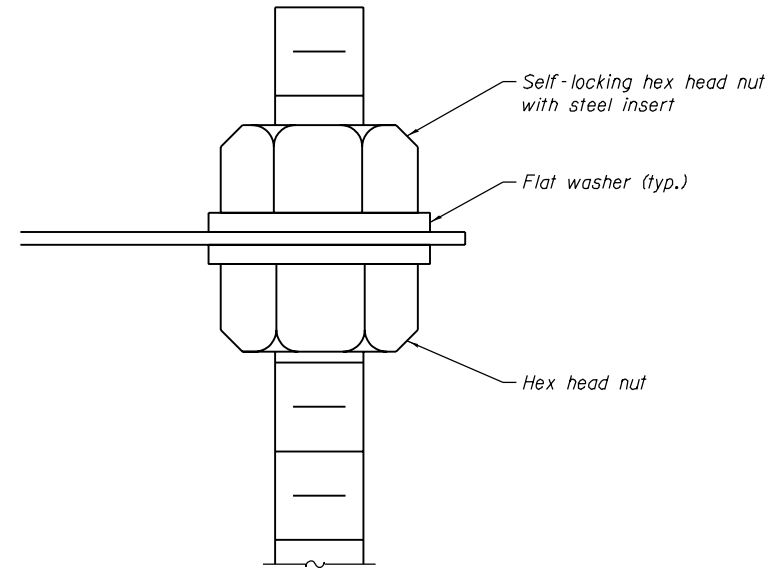
**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
TOWER FOUNDATION PLANS 1 OF 2**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-1	COOK	37	30
CONTRACT NO. 60W49				
ILLINOIS FED. AID PROJECT				

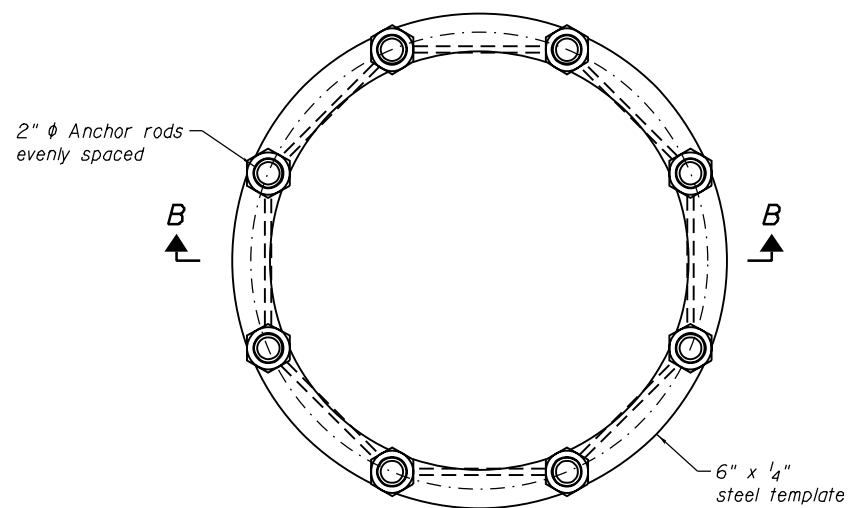
SHEET NO. S-1 OF S-2 SHEETS



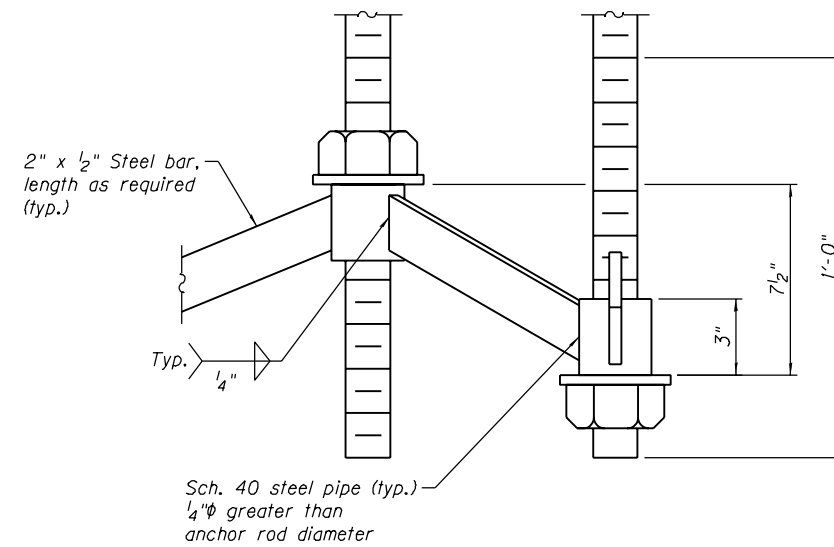
SECTION B-B



DETAIL A



ANCHOR ROD CAGE (PLAN)



DETAIL B

CCTV-60W49-S02-CCTV Tower Foundation.dgn



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	CHECKED - ATB	REVISED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

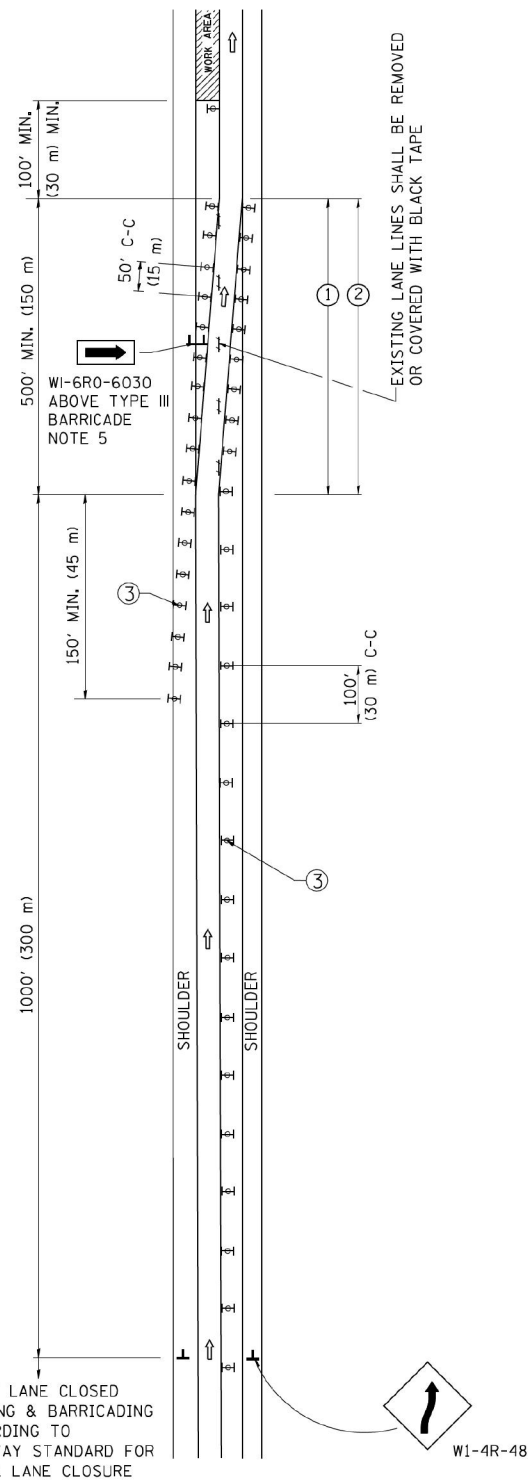
**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
TOWER FOUNDATION PLANS 2 OF 2**

SHEET NO. S-2 OF S-2 SHEETS

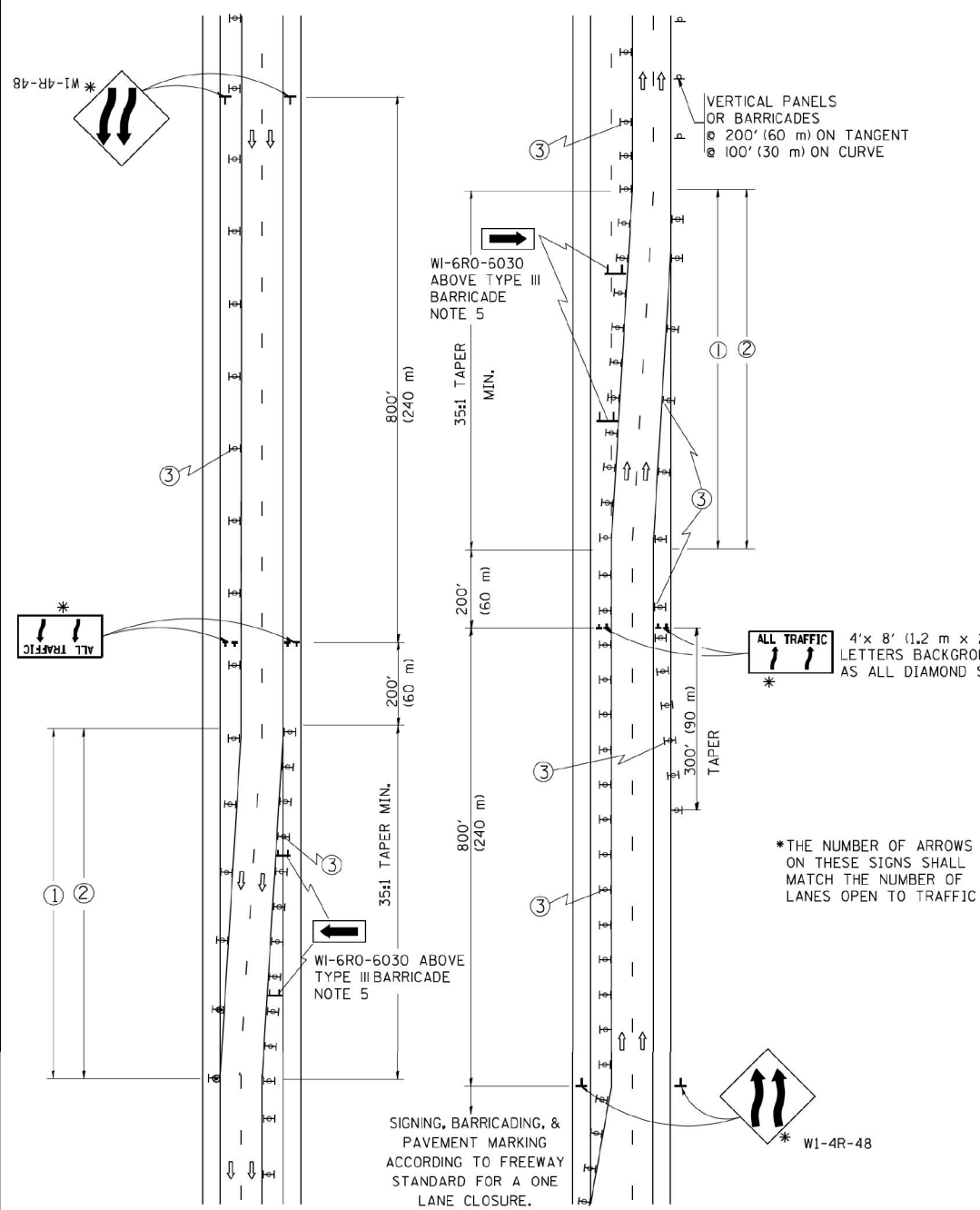
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389	2013-026-I	COOK	37	31
CONTRACT NO.			60W49	
ILLINOIS FED. AID PROJECT				

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30" (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE	
DWS	2/87		
DWS	1/90		
DWS	12/27/94		
DWS	11/96		
JAF	4/03		
JAF	2/06		
SPB	1/07		
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PARSONS BRINCKERHOFF
230 West Monroe Street
Suite 900
Chicago, IL 60609

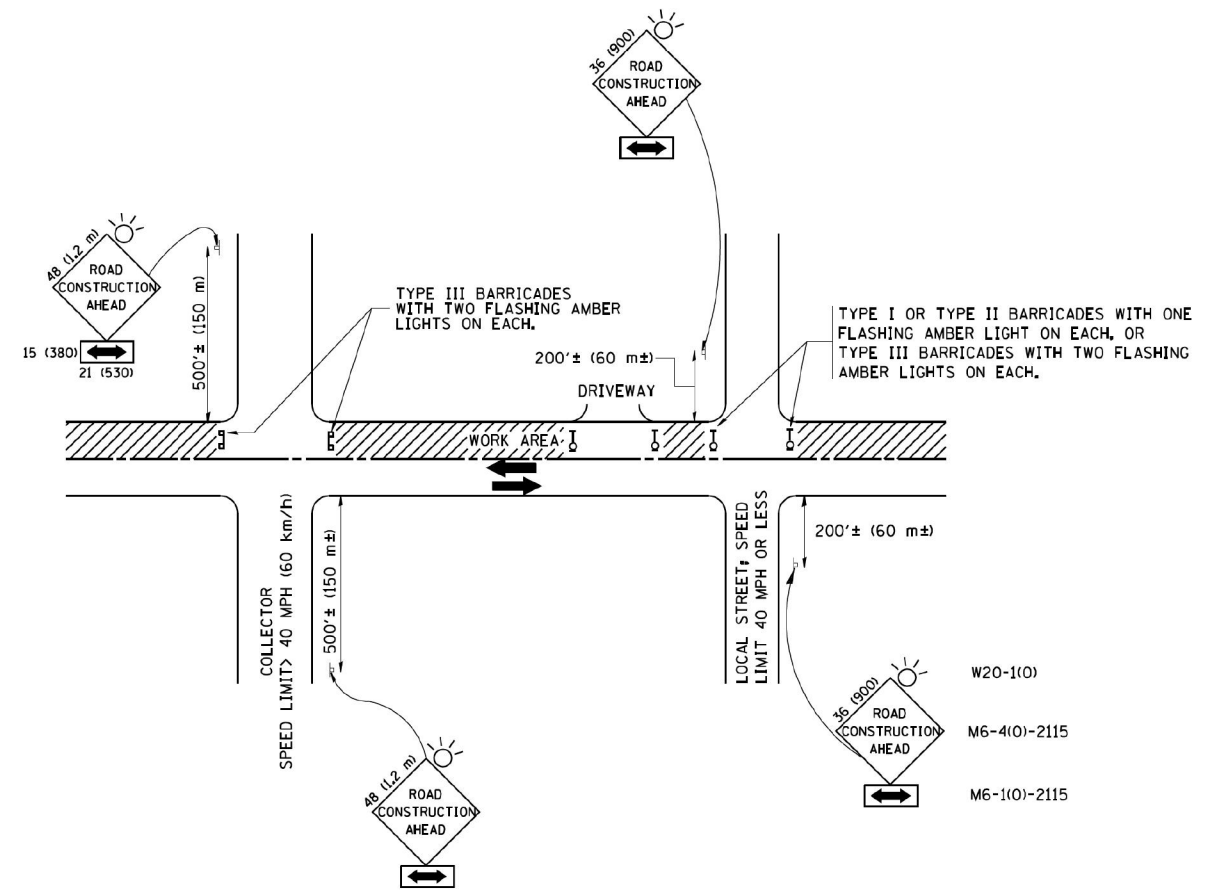
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/4 TO CONGRESS PARKWAY
SINGLE AND MULTI-LANE WEAVE

SCALE: NONE	SHEET NO. OF SHEETS	STA. 353+46.00 TO STA. 382+50.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	32
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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

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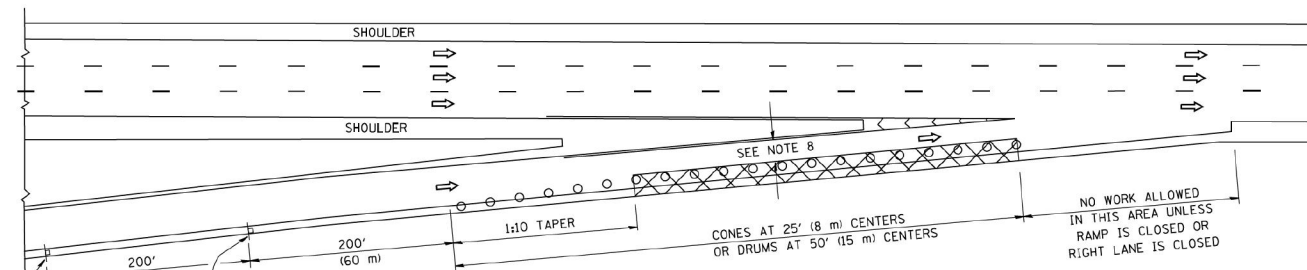
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/4 TO CONGRESS PARKWAY
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS

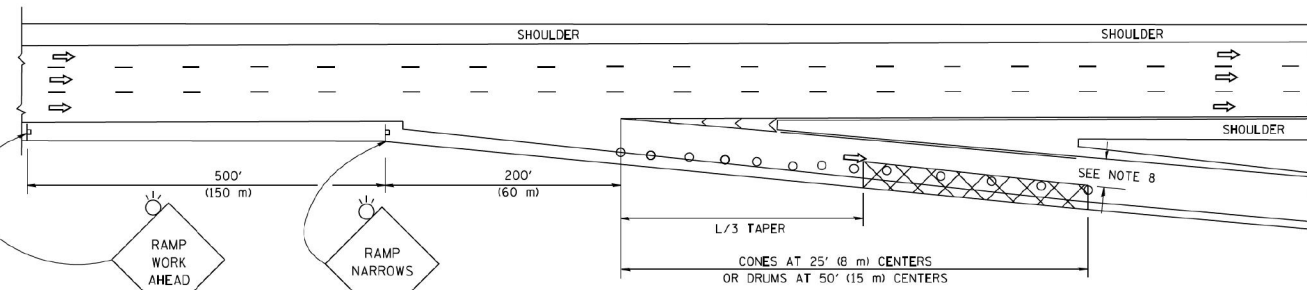
SCALE: NONE SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

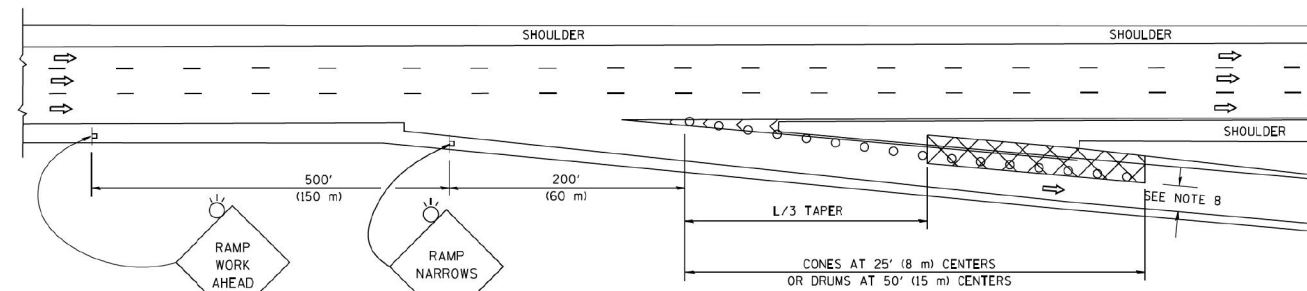
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

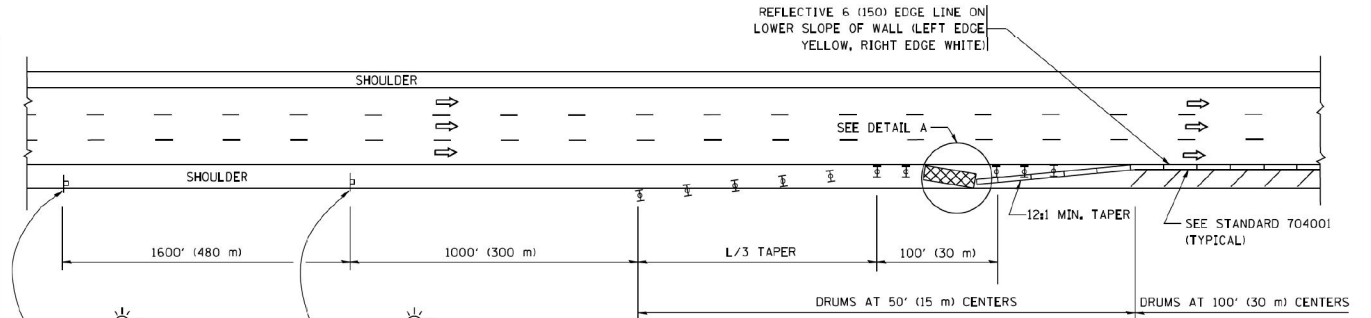
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

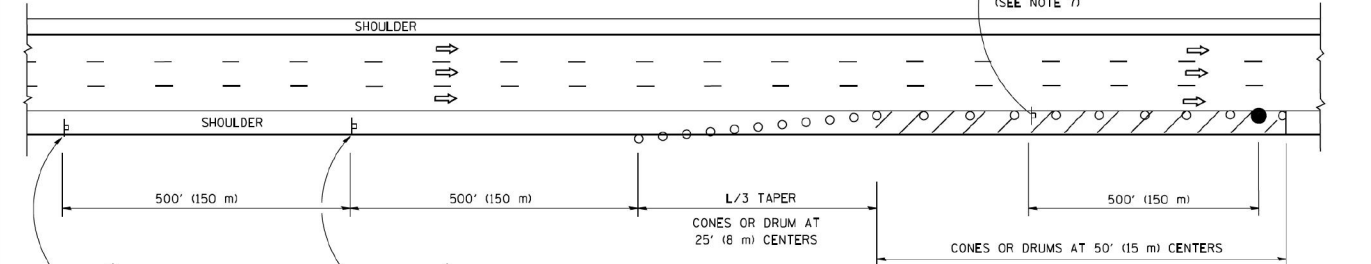
1. THE "L" DISTANCE EQUALS:

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

SHOULDER CLOSURE DETAILS

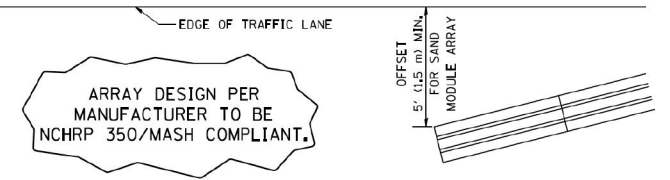


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12" MIN. WIDTH TANGENT SECTION
 16" MIN. WIDTH CURVE SECTION.

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

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

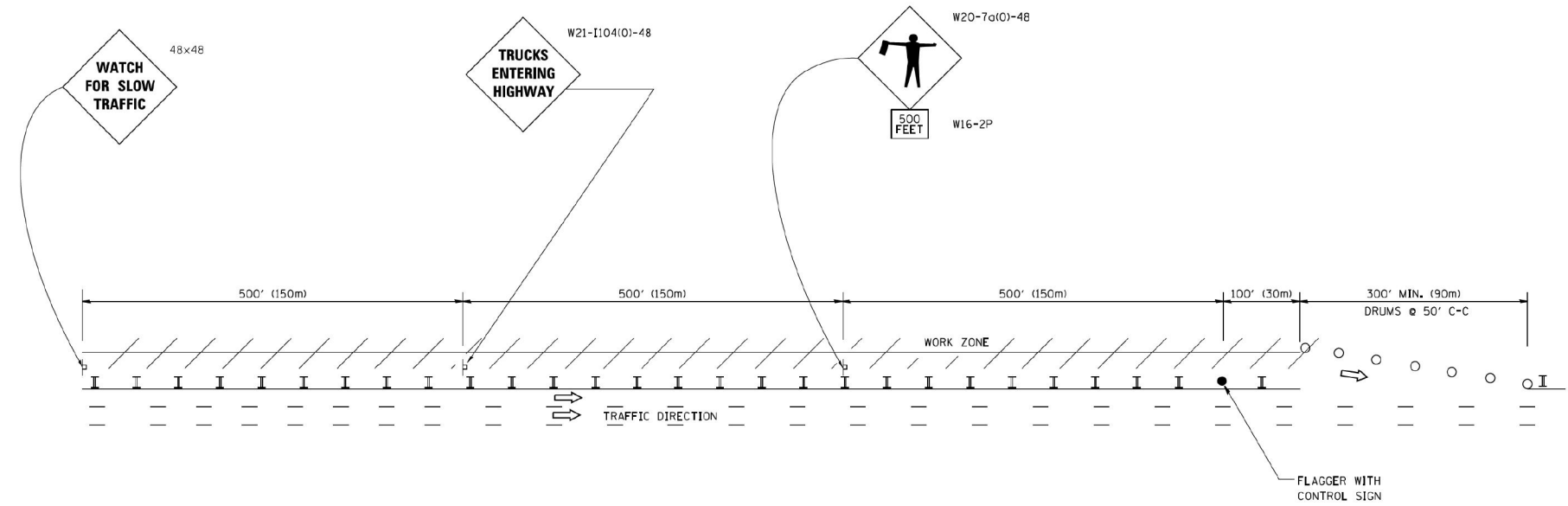
CCTV SYSTEM, I-90/4 TO CONGRESS PARKWAY
 PARTIAL RAMP OR SHOULDER CLOSURE

SCALE: NONE	SHEET NO. OF SHEETS	STA. 353+46.00 TO STA. 382+50.00
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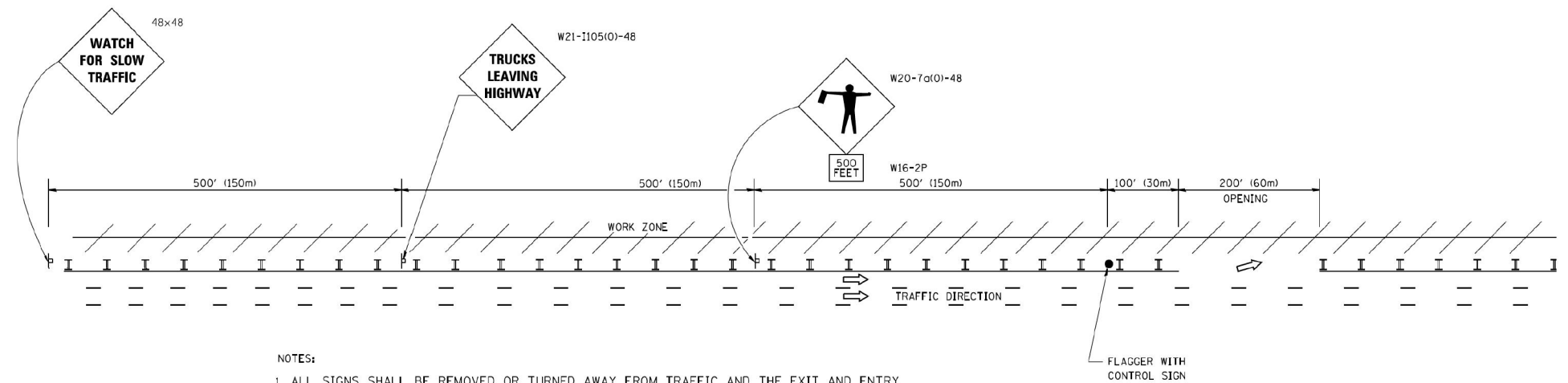
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CONTRACT NO. 60W49			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PARSONS BRINCKERHOFF
230 West Monroe Street
Suite 900
Chicago, IL 60609

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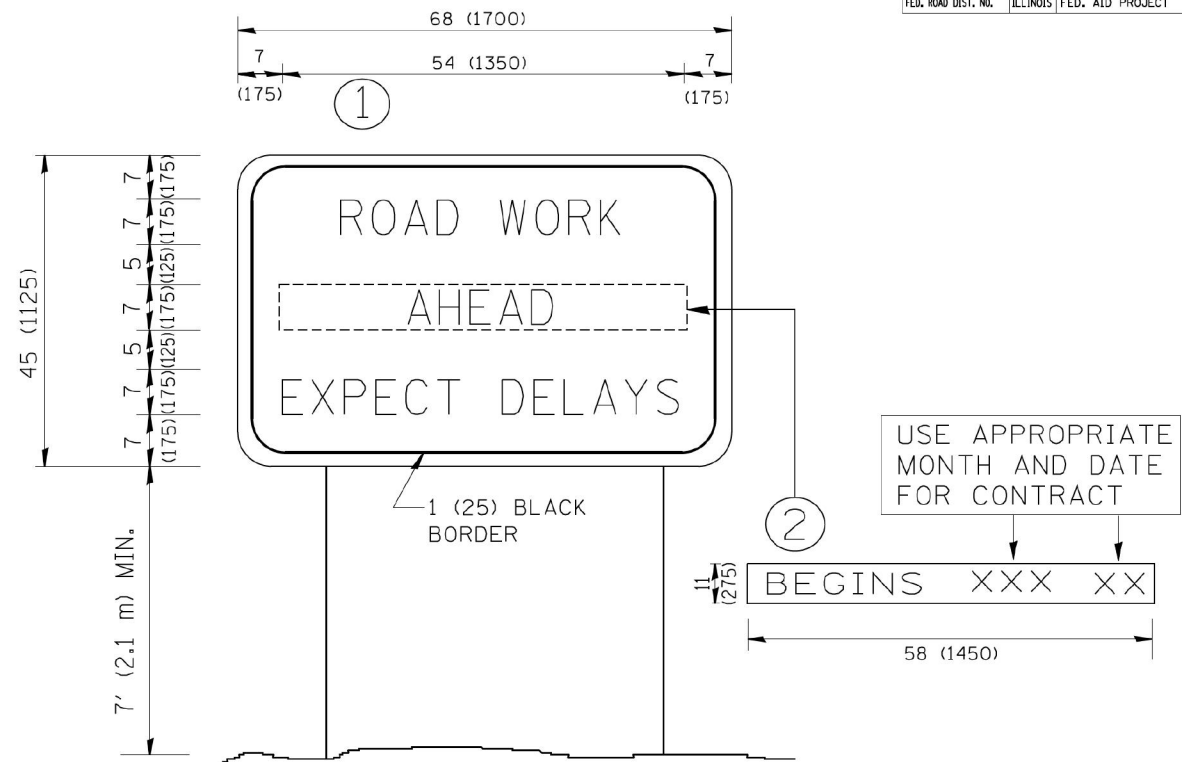
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV SYSTEM, I-90/4 TO CONGRESS PARKWAY
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE

SCALE: NONE SHEET NO. OF SHEETS STA. 353+46.00 TO STA. 382+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	35
CONTRACT NO. 60W49				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
389	2013-026-I	COOK	37	36
STA.		TO STA.		
FED. ROAD DIST. NO.		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.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
R. MIRS	9-15-97	ARTERIAL ROAD INFORMATION SIGN	
R. MIRS	12-11-97		
T. RAMMACHER	2-2-99		
C. JUCIUS	1-31-07		
		SCALE: NONE	DRAWN BY DESIGN
			CHECKED BY
			TC22

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28-OCT-2013 13:49

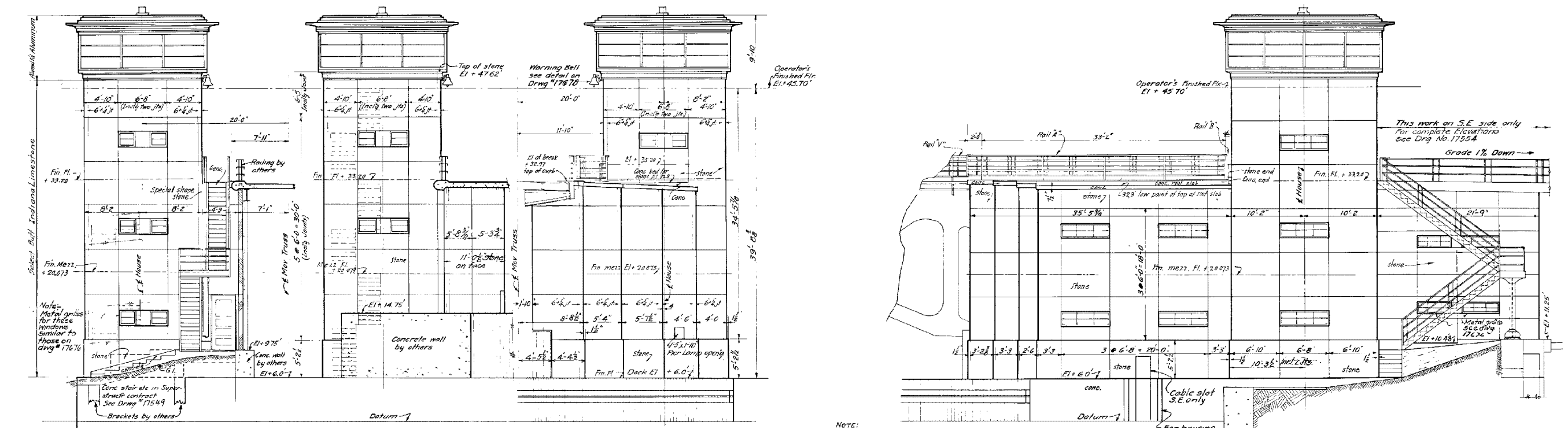
**PARSONS
BRINCKERHOFF**
230 West Monroe Street
Suite 900
Chicago, IL 60609

USER NAME = pteid	DESIGNED - SN	REVISED -
FILE NAME	DRAWN - DCP	REVISED -
PLOT SCALE = NONE	CHECKED - SN	REVISED -
PLOT DATE = 10/28/2013	DATE - 10/18/2013	REVISED -

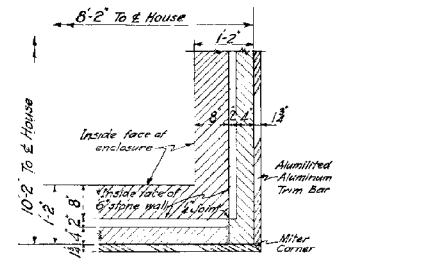
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY
ARTERIAL ROAD INFORMATION SIGN**

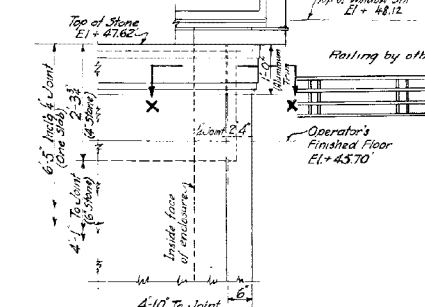
SCALE: NONE	SHEET NO. OF SHEETS	STA. 353+46.00 TO STA. 382+50.00	F.A.P. RTE. 389	SECTION 2013-026-I	COUNTY COOK	TOTAL SHEETS 37	SHEET NO. 36
CONTRACT NO. 60W49							FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT



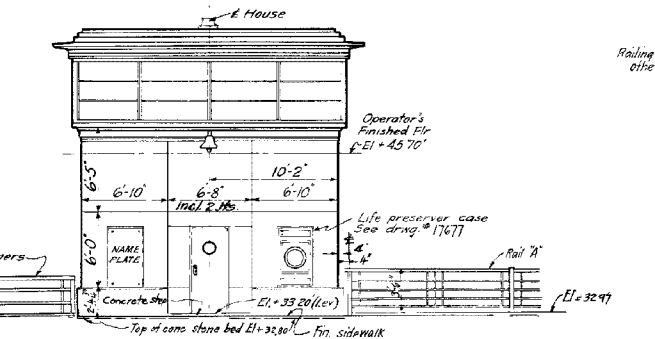
EAST ELEVATION S.E. House
WEST ELEVATION N.W. House
WEST ELEVATION S.E. House
EAST ELEVATION N.W. House



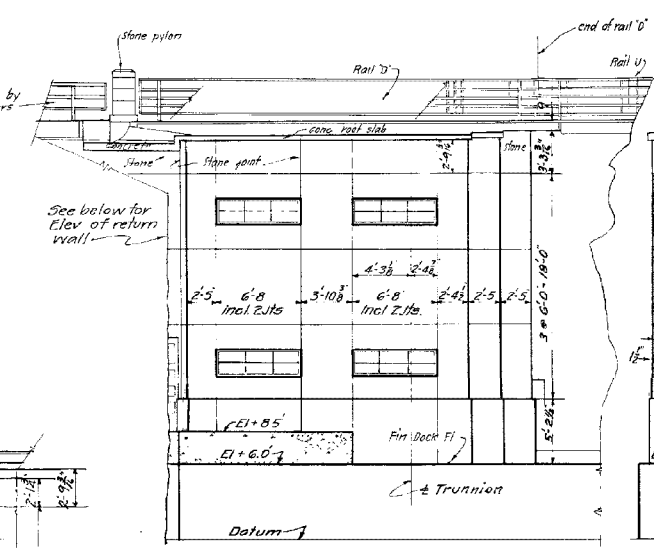
PLAN ON X-X



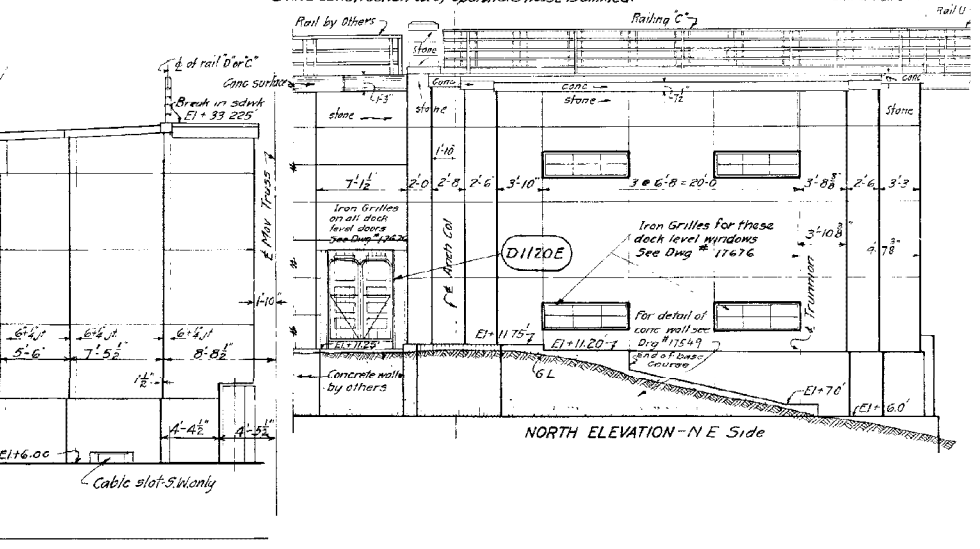
TYPICAL DETAIL AT TOP OF STONE WALL CORNER
 Scale: 3/4"=1'-0"



ROADWAY ELEVATION (South) N.W. House
 S.E. House similar except for sidewalk grades and stairway at left.
 Scale: 3/4"=1'-0"



SOUTH ELEVATION - S.W. Side



WEST ELEVATION - N.E. Side
EAST ELEVATION - S.W. Side

NOTE:
 Unless otherwise shown -
 All horizontal dimensions for stone joints are to center of joints.
 All vertical dimensions are to center of joints.
 All actual (horizontal) stone joints are at points supported by steel. All other apparent joints are cut lines only in stone.
 For elev. of wall in back of building, show on right hand side and east enclosure wall - See Dring. No. 17554.
 All stone shall be Select Buff Indiana Limestone See Specifications.

NOTE:
 EXISTING PLAN FOR REFERENCE ONLY.

T:\168434\CCTV\Files from NY\17-2013\168434-CCTV-E16-21-E-DETS.dgn
 28-OCT-2013 13:49

PARSONS BRINCKERHOFF 230 West Monroe Street Suite 900 Chicago, IL 60606	USER NAME = pated	DESIGNED - D. DRAKULICH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV SYSTEM, I-90/94 TO CONGRESS PARKWAY BRIDGE HOUSES AND ENCLOSURES	F.A.P. RTE. 389	SECTION 2013-026-I	COUNTY COOK	TOTAL SHEETS 37	SHEET NO. 37	
	FILE NAME	DRAWN - E. MALUSEL	REVISED -			SCALE: AS SHOWN	SHEET NO. OF SHEETS	STA. 353+46.00 TO STA. 382+50.00	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60W49
	PLOT SCALE = NONE	CHECKED - S. STERN	REVISED -								
	PLOT DATE = 10/18/2013	DATE = 10/18/2013	REVISED -								