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

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.I. 80 (MOLINE EXPRESSWAY) 1-80 **80TH AVENUE TO INTERSTATE 57 SECTION 2012-0711**

PROJECT : ESP-080-5(071)149

FIBER OPTIC CABLE INSTALLATION

-C-91-080-13

WILL AND COOK COUNTY

END IMPROVEMENT STA 263+00

PROFESSIONAL ENGINEER

ISAAC YUN, P.E. LICENSE NO.: 062-062257

EXPIRES: 11-30-2013 SHEETS: 1-7

INTERSTATE (URBAN) 2012 ADT = 122,700

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER



LICENSE NO.: 062-057957 EXPIRES: 11-30-2013 SHEETS: 8-27

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

1 Rev. 2-20-13

BEGIN IMPROVEMENT

STA 10+00

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: ROLAND TOMSONS PROJECT MANAGER: MARK JENKINS

CONTRACT NO. 60V81

TOWNSHIPS: FRANKFORT, RICH & BREMEN

GROSS LENGTH = 25,300 FT. = 4,792 MILE NET LENGTH = 25,300 FT. = 4,792 MILE

COUNTRY BLUB HILL BOP 18,274

2012-0711



FUNCTIONAL CLASSIFICATION

LOCATION OF SECTION INDICATED THUS: - -

SUBMITTED _/9 Dec

SINGH + ASSOCIATES, INC.

D-91-080-13

INDEX OF SHEETS

- COVER SHEET
- INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
- SUMMARY OF QUANTITIES
- ALIGNMENT AND TIES
- ITS GENERAL NOTES & LEGEND
- FIBER OPTIC CABLE INSTALLATION PLAN I-80 9-26
- FIBER OPTIC CABLE SINGLE LINE DIAGRAM 27
- BRIDGE CROSSING DETAIL 28

DISTRICT ONE STANDARD DETAILS 29~37) 374,378 Added

HIGHWAY STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001006 DECIMAL OF AN INCH AND OF A FOOT

836001-02 CONCRETE FOUNDATIONS

814001-02 CONCRETE HANDHOLES

OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) 701101-03

FROM PAVEMENT EDGE

701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY

701400-06 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY

701401-07 LANE CLOSURE, FREEWAY/EXPRESSWAY

701901-02 TRAFFIC CONTROL DEVICES

DISTRICT 1 STANDARD DETAILS

BE-705 COMMUNICATIONS VAULT, COMPOSITE CONCRETE

TRUNK CABLE FIBER ASSIGNMENTS, FAI 80 FROM 80TH AVE TO I-57 BE-2100

DISTRIBUTION CABLE FIBER ASSIGNMENTS. BE-2110

FAI 80 FROM BOTH AVE TO 1-57

TWELVE FIBER LATERAL CABLE FIBER ASSIGNMENTS BE-2130

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES TC-17

AND PARTIAL RAMP CLOSURES

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS TC-18

ARTERIAL ROAD INFORMATION SIGN TC-22

HANDHOLE TO INTERCEPT EXISTING CONDUIT TS-03

GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE 100T STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2013, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- 2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL JULIE AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS
- 3. THE LOCATION OF EXISTING FACILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, CONFIGURATION AND NATURE OF ANY AND ALL EXISTING FACILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING FACILITIES (FIBER OPTIC CABLE, ELECTRIC OR ANY OTHER COMMUNICATIONS CABLES OR EQUIPMENT) NEAR PROPOSED WORK AREAS WHICH ARE TO REMAIN IN SERVICE SHALL BE RECONFIGURED AND BE FULLY PROTECTED BY THE CONTRACTOR. ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO IDOT TO THE SATISFACTION OF THE ENGINEER.
- 4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES AND MUNICIPALITIES. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES AND THEIR OPERATION.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 6. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 7. ALL FRAMES, GRATES, PAVEMENT, FENCES, DELINEATORS AND APPURTENANCES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
- 8. THE ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 A MINIMUM OF 72 HOURS PRIOR TO THE START OF WORK.
- 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING FIELD CONDITIONS PRIOR TO BIDDING, ORDERING MATERIALS. OR BEGINNING OF CONSTRUCTION ON THIS PROJECT. SPECIFICIALLY AS THEY RELATE TO LUMP SUM ITEMS.
- 10. CONTRACTOR SHALL INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT STRUCTURE JOINTS AS NEEDED PER BRIDGE CROSSING DETAILS AT NO ADDITIONAL COST.
- 11. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR, SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE, THIS SHALL INCLINE 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
- 12. FLUORESCENT VESTS AND HARD HATS: ALL CONSTRUCTION PERSONNEL WILL BE REQUIRED TO WEAR FLUORESCENT ORANGE, FLUORESCENT YELLOW/GREEN OR A COMBINATION OF FLUORESCENT ORANGE AND FLUORESCENT YELLOW/GREEN VESTS AND HARD HATS AT ALL TIMES WHILE ON THE CONSTRUCTION SITE.
- 13. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT EQUIPMENT FROM DAMAGE OR INTERFERENCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING THE WORK AREA FREE FROM DEBRIS. THIS WORK SHALL BE INCIDENTAL TO
- 14. THE STANDARD DRAWINGS LISTED IN THE PLANS INDEX ARE INTENDED TO BE THE LATEST REVISIONS AND SHALL TAKE PRECEDENCE OVER EARLIER REVISIONS THAT MAY BE REFERRED TO ELSEWHERE IN THE PLANS OR SPECIAL PROVISIONS.

TRAFFIC CONTROL PLAN NOTES

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

OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE 701101-03

OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY 701106-02

APPROACH TO LANE CLOSURE, FREEWAY/EXPRESWAY 701400-06 LANE CLOSURE, FREEWAY/EXPRESSWAY 701401-07

701901-02 TRAFFIC CONTROL DEVICES

TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES TC-17

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE TC-18

ARTERIAL ROAD INFORMATION SIGN TC-22

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.
- 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)."
- 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.
- S. THE ENGINEER SHALL BE INFORMED 21 DAYS IN ADVANCE OF ANY CHANGE TO THE TRAFFIC CONTROL
- 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.
- 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.
- B. 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
- 9. LOCATIONS OF CHANGEABLE MESSAGE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- 10. DRUMS OR TYPE II BARRICADES AND VERTICAL PANELS SHALL BE EQUIPPED WITH MONODIRECTIONAL STEADY BURN LIGHTS AND SHALL BE PLACED AT 50' INTERVALS ALONG WORK ZONES, AT 25' INTERVALS IN CURVES, AND AT 25' INTERVALS IN TAPER SECTIONS AS INDICATED IN THE IDOT HIGHWAY STANDARDS OR AS DIRECTED BY THE ENGINEER. TYPE II BARRICADES SHALL HAVE A MINIMUM REFLECTORIZED AREA OF 288 SOUARE INCHES AND BE 2' IN WIDTH.
- THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD). ILLINOIS SUPPLEMENT TO THE MUTCD, IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, IDOT STANDARD SPECIFICATIONS, CONTRACT SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC AND PROTECTION (EXPRESSWAYS).
- 12. THE CONTRACTOR SHALL PROVIDE ADVANCE NOTICE OF CONSTRUCTION SIGNING. SIGNS SHALL BE ERECTED ONE WEEK IN ADVANCE OF THE START OF CONSTRUCTION AND SHALL BE REMOVED OR COVERED WHEN PROTECTION IS NOT REQUIRED.
- 13. ALL ARROW BOARDS SHALL HAVE SOLAR POWER CAPABILITY.
- 14. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" BY 6" DELINEATOR INSTALLED.

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

A Rev. 2-20-13

COUNTY TOTAL SHEE SHEETS NO. SECTION INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES 2012-071 WILL/COOK 37 2 80 CONTRACT NO. 60V81

Jak 293 V Took - 3 NOGN \ CADD Shoots \ 6

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DESIGNED - OB REVISEO REVISED - AM/WC ä∀äl•sht82×asnnots.don REVISEO CHECKED - 1Y PLOT SCALE = 50.0000 1/ in PLOT DATE = 12/19/2012 DATE 12/21/2012 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ITEM		URBAN	WILL	COOK COOK
ITEM		- 7		COUNTY
i I EM	1	TOTAL	ROADWAY	ROADWAY
	UNIT	QUANTITY -	0043	0043
	-		URBAN	URBAN
CLOSED CIRCUIT TELEVISION CAMERA INSTALLATION	EACH	2	2	
CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 50 FT. MOUNTING HEIGHT	EACH	2	2	
				1
FIBER OPTIC INTERCONNECT CABINET	EACH	1	. 1	
TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	0. 3	0.7
FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE	FOOT	56, 538	14.968	41,570
	-			. ,
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	2. 387	389	1, 998
				
BUDGETARY ALLOWANCE FOR CCTY INTEGRATION	L SUM	1	0. 3	0.7
	:			
CCTV CAMERA CONTROLLER	EACH	2	2	
				
MODIFY EXISTING CONTROLLER FOR CCTV POWER	EACH	2	2	
CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION.	F007	20	20	
30" DIAMETER				
ORILL EXISTING HEAVY OUTY HANDHOLE	EACH	8	2	6
CCTV EQUIPMENT CABINET - GROUND MOUNT	EACH	2	2	

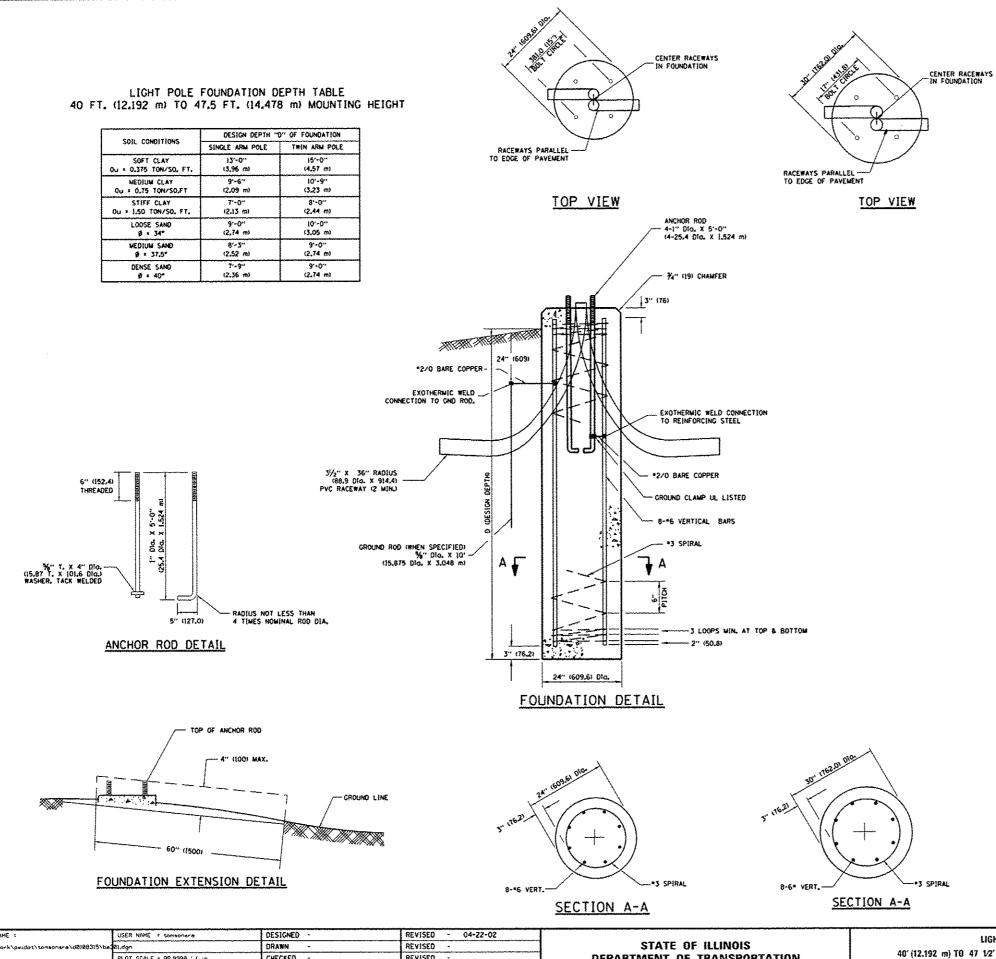
	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 50 FT. MOUNTING HEIGHT FIBER OPTIC INTERCONNECT CABINET TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE BUDGETARY ALLOWANCE FOR CCTY INTEGRATION CCTY CAMERA CONTROLLER MODIFY EXISTING CONTROLLER FOR CCTY POWER CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 30" DIAMETER	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, 50 FT. MOUNTING HEIGHT EACH FIBER OPTIC INTERCONNECT CABINET TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) L SUM FIBER OPTIC CABLE 96 FIBERS, SINGLE MODE FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE BUDGETARY ALLOWANCE FOR CCTV INTEGRATION L SUM CCTV CAMERA CONTROLLER EACH CCTV CAMERA CONTROLLER FOR CCTV POWER EACH CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE FOUNDATION, 30" DIAMPETER ORILL EXISTING HEAVY DUTY HANDHOLE CCCTV EQUIRMENT CROINET - GROUND MOUNT EACH CCCTV EQUIRMENT CROINET - GROUND MOUNT EACH	CLOSEO CIRCUIT TELEVISION CAMERA STRUCTURE, SO FT. MOUNTING HEIGHT EACH 2 FIBER OPTIC INTERCONNECT CABINET	CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, SO FT. MOUNTING HEIGHT EACH 2 2 FIBER OFFIC INTERCONNECT CABINET EACH 1 1 TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) L SUM 1 0, 3 FIBER OFFIC CABLE 96 FIBERS, SINGLE MODE FOOT 56,538 14,968 FIBER OFFIC CABLE 12 FIBERS, SINGLE MODE FOOT 2,387 389 BUDGETARY ALLOWANCE FOR CCTV INTEGRATION L SUM 1 0, 3 CCTV CAMERA CONTROLLER EACH 2 2 WODIFY EXISTING CONTROLLER FOR CCTV POWER EACH 2 2 CLOSED CROUIT TELEVISION COMMERA STRUCTURE FOUNDATION, 50° DIMENSITY OF THE PROPERTY CADINET - GROUND MOUNT EACH 2 2 CCTV EQUIPMENT CADINET - GROUND MOUNT EACH 2 2

H9NIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 2 OF 2 SHEETS STA, N/A TO STA, N/A

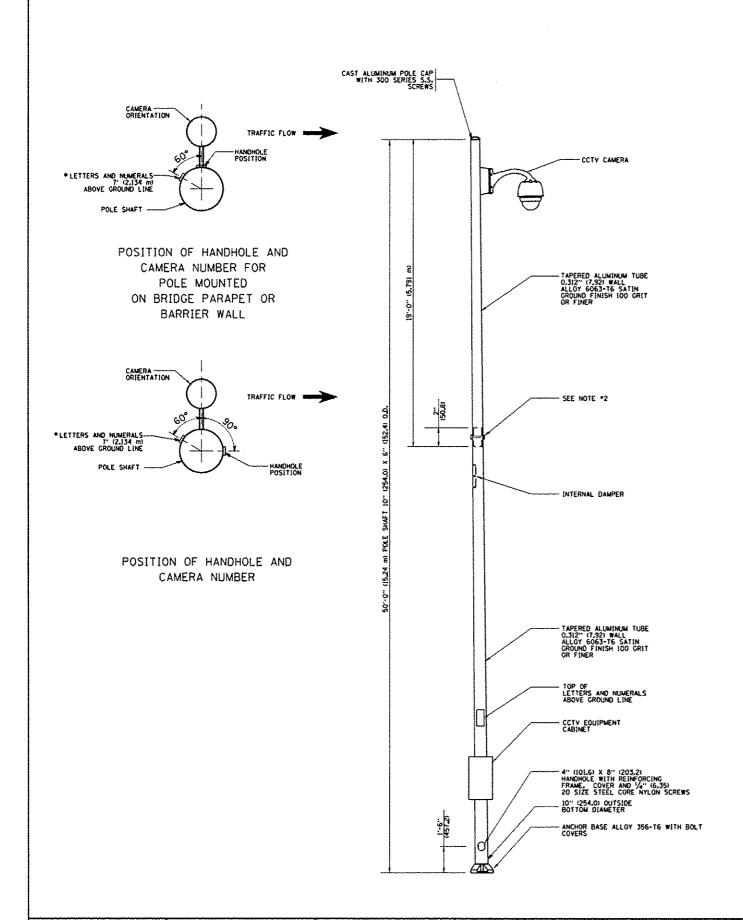




- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- 3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH ASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- 4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION, FOUNDATION TOP SHALL BE CHAMPERED ½-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE, COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105), NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS COMFORMING WITH ASSITO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMM MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION, IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT I" (25,4 mm) ABOVE THE TOP OF THE FOUNDATION.

A Added Sheet 2-20-13

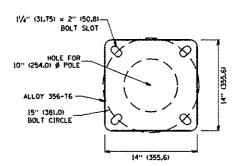
TOTAL SHEET NO. 37A SECTION COUNTY LIGHT POLE FOUNDATION 40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 99.9998 1/ In CONTRACT NO. 60VB/ BE-301 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FEO. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT DATE PLOT DATE = 2/28/2013 REVISED



NOTES

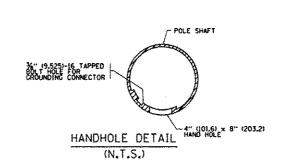
- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
 UNLESS OTHERWISE SHOWN,
 2. TWO PIECE SHAFT WILL BE MATCHED MARKED
 AND INTERCHANGEBIE BETWEEN DIFFERENT
 UNTIL HOLD BE ALLOWED.
 3. THE POLE WILL MEET AASHTO DESIGN
 CRITERIA AS SPECIFIED.
 4. THE INSTALLING CONTRACTOR WILL PROVIDE A
 UR LISTED GROUNDING CONNECTOR, BURNDY
 K2CZS, TAB SPADL OR APPROVED EQUAL.

- 5. POLES WILL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.
 6. POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.



POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



A Added Sheet 2-20-13

FILE NAME =	USER NAME = tomsonsre	DESIGNED -	REVISED - R. TOMSONS 09-06-00		CCTV CAMERA STRUCTURE	F.A. SECTION	COUNTY TOTAL SHEETS	HEET
ci\pw.work\pwidot\tomaonara\d8i863i5\bea	788.dgn	DRAWN -	REVISED - R. TOMSONS 09-03-03	STATE OF ILLINOIS		15767		57 <i>8</i>
	PLOT SCALE + 188,800 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	50' (15.24 m) MOUNTING HEIGHT	BE-1000	CONTRACT NO. 601	
	PLOT DATE < 2/20/2013	DATE -	REVISED -		SCALEI NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ID PROJECT	26.37