

F.A.-RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LT	COOK	14	1
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. - 83711

INDEX TO SHEETS:

SHEET NO.	DESCRIPTION
1	COVER SHEET
#E-2	BILL OF MATERIALS, SYMBOLS & GENERAL NOTES
#E-3	EXISTING LIGHTING SYSTEM WITH CIRCUITRY
#E-4	EXISTING LIGHTING REMOVAL PLANS STA. 5+00 TO 49+00
#E-5	EXISTING LIGHTING REMOVAL PLANS STA. 49+00 TO 81+00
#E-6	PROPOSED LIGHTING IMPROVEMENT PLAN STA. 5+00 TO 32+00
#E-7	PROPOSED LIGHTING IMPROVEMENT PLAN STA. 32+00 TO 62+00
#E-8	PROPOSED LIGHTING IMPROVEMENT PLAN STA. 62+00 TO 81+95
#E-9	ONE LIGHT CIRCUIT DIAGRAM, MODIFY EXISTING CIRCUITS
#E-10	DAVIT LIGHT POLE 40 FT. MH, 10/12 FT MA
#E-11	LIGHT POLE FOUNDATION, METAL
#E-12	LIGHTING CONTROLLER SPECIAL, 100 AMPERE-120 VOLT/240 VOLT
#E-13	ELECTRICAL SERVICE INSTALLATION ABOVE GROUND
#E-14	ELECTRICAL DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.U. ROUTE 1569 (73RD STREET)

LIGHTING IMPROVEMENTS, 100 FT. EAST OF SAYRE
AVENUE TO 1505 FT. WEST OF CENTRAL AVENUE

SECTION NO. 02-00025-00-LT

PROJECT NO: M-8003(447)

JOB NO: C91-367-04

VILLAGE OF BEDFORD PARK, COOK COUNTY



LOCATION OF SECTION INDICATED AS [Black Box]

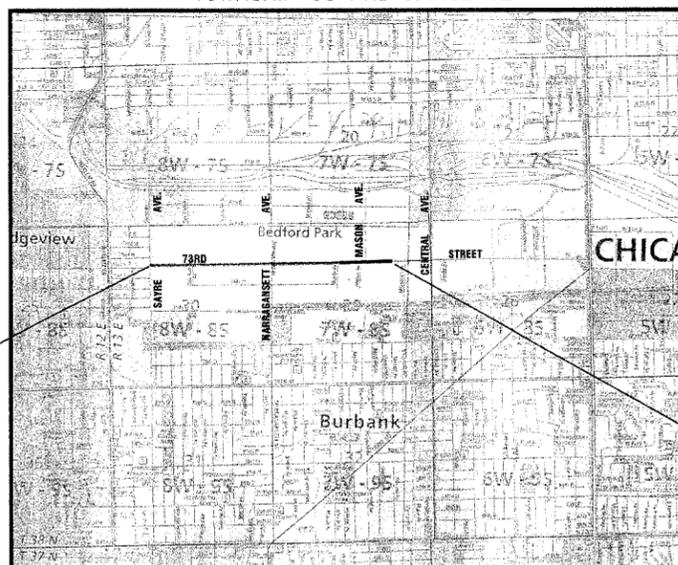
LIST OF STATE STANDARDS:

STANDARD NO.	DESCRIPTION
701606-04:	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701301-02:	2L, 2W, SHORT TIME OPERATIONS
702001-05:	TRAFFIC CONTROL DEVICES

FEDERAL-AID DESIGN ENGINEER: PHIL MARCYN 1-847-705-4189



TOWNSHIP 38 AND RANGE 12

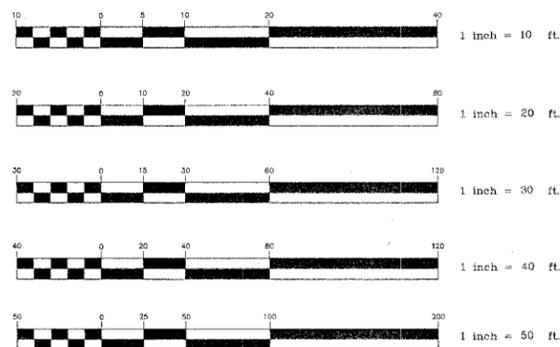


LOCATION MAP

PROJECT BEGINS AT STA. 6+00

PROJECT ENDS AT STA. 81+95

TRAFFIC DATA
ADT = 11,500
SPEED LIMIT = 30 MPH



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

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

Hoeffler-Butler Engineering, Inc.
Consulting Civil Engineers / Land Surveyors
LICENSE NO. 184-000819
8714 S. ROBERTS ROAD • HICKORY HILLS, ILLINOIS • 60457 • (708) 599-8980

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: 6-02 20 05
David R. Brady
LOCAL AGENCY OFFICIAL

APPROVED: 6-3 20 05
Chao
ENGINEER OF LOCAL ROADS AND STREETS

APPROVED: June 6, 20 05
Dina O'Keefe
REGION ENGINEER



EXPIRES 11-30-05
David Butler
SIGNATURE
6/01/05
DATE

CONTRACT NO. - 83711

GROSS LENGTH OF PROJECT 7595 FEET (1.43 MILES)
NET LENGTH OF PROJECT 7595 FEET (1.43 MILES)

PH# (708)599-8980

(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)

BILL OF MATERIALS

Y030-1E

PAY CODE	ITEM	UNIT	QUAN
80400100	ELECTRIC SERVICE INSTALLATION	EACH	3
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
80700110	GROUND ROD, 3/4" DIA. x 10 FT	EACH	6
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	630
81018600	CONDUIT PUSHED, 2 1/2" DIA. GALVANIZED STEEL	FOOT	524
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	600
81702440	ELECTRIC CABLE IN CONDUIT 600 V (XLP TYPE USE-2) 3-1/C 1/0	FOOT	720
82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT 310 WATT	EACH	51
82500505	LIGHTING CONTROLLER, SPECIAL	EACH	3
83002400	LIGHT POLE, ALUMINUM, 40 FT MOUNTING HEIGHT, 10 FT DAVIT ARM	EACH	11
83002500	LIGHT POLE, ALUMINUM, 40 FT MOUNTING HEIGHT, 12 FT DAVIT ARM	EACH	40
83600355	LIGHT POLE FOUNDATION, METAL 15" BOLT CIRCLE, 8' x 6FT	EACH	51
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE	EACH	51
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	11
84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	19
84200705	LIGHTING FOUNDATION REMOVAL PARTIAL	EACH	28
X8950080	REMOVE EXISTING LIGHTING CONTROLLER	EACH	3
XX006332	POLYETHYLENE DUCT BORED AND PULLED, 1 1/4" DIA WITH ELECTRIC CABLE 600V (XLP-TYPE USE-2), 2-1/C NO. 6 AND 1/C NO. 6 GROUND	FOOT	12,000
* 21101615	TOP SOIL, FURNISH AND PLACE 4"	SQ YD	100
* 25000110	SEEDING CLASS IA	ACRE	0.01
70102625	TRAFFIC CONTROL AND PROTECTION STA. 701606	LS	1
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	3
67100100	MOBILIZATION	LS	1

* Specialty Items

TEMPORARY LIGHTING

DURING PROPOSED ROADWAY LIGHTING INSTALLATION, THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING AS TEMPORARY LIGHTING, THE EXISTING ROADWAY LIGHTING SYSTEMS WHICH ARE BEING REPLACED MUST REMAIN OPERATIONAL THROUGHOUT THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT THE APPROVAL OF THE ENGINEER.

GENERAL NOTES

- WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRICAL WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER AT THE PRECONSTRUCTION INSPECTION. THE EXACT LOCATIONS OF ALL OTHER ROADWAY LIGHTING ITEMS, INCLUDING THE LIGHTING CONTROLLER(S), SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.
- THE RESPONSIBILITY FOR COORDINATING FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL BE REMAIN WITH THE CONTRACTOR.
- THE CONTRACTOR SHALL SUBMIT FOR THE RESIDENT ENGINEER APPROVAL, WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT (8) COPIES OF APPROVABLE MANUFACTURER'S PRODUCT DATA AND DETAIL SHOP DRAWINGS TO THE ATTENTION OF HOFFERLE-BUTLER ENGINEERING, INC., 8714 SOUTH ROBERTS ROAD, HICKORY HILLS, IL 60457, PH. 708-599-8980 THE FOLLOWING:
 - TRENCH: ELECTRICAL WARNING TAPE
 - FOUNDATION: CLASS "C" CONCRETE, REINFORCEMENT, RACEWAYS. ANCHOR BOLTS WITH NUTS & WASHERS.
 - CONDUIT: CONDUIT AND CONDUIT FITTINGS.
 - GROUND ROD: GROUND ROD, COPPER WIRE, EXOTHERMIC WELD.
 - UNIT DUCT/CABLES: UNIT DUCT, CABLES
 - ELECTRIC CABLES: ELECTRIC CABLES
 - LIGHT POLE/ARM: POLE DETAILS, SHOP DRAWING, & WIND LOAD CALCULATIONS, POLE WIRE
 - LUMINAIRE: ROADWAY LUMINAIRE WITH BALLAST ASSEMBLY.
 - ELECTRICAL ITEMS: ELECTRIC TAPES, QUICK DISCONNECT WITH FUSE, LAMPS.
 - LIGHTING CONTROLLER: CIRCUITRY DETAIL, CATALOG ON MATERIALS, PAINT.
 - METAL FOUNDATION - FABRICATION AND METAL DETAILS
- UNIT DUCT SHALL BE 1/4" DIA. DUCT WITH 2-1/C NO.6 (BLACK-RED), 1/C NO.6 (GREEN) GROUND SOLID COLOR CODED INSULATED CONDUCTOR.
- THE CONTRACTOR SHALL SUBMIT FOUR (4) SET FULL SIZED COMPLETE, NEAT AND ACCURATE "RECORD DRAWINGS" PLAN SETS TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED. THE "RECORD DRAWINGS" SHALL BE UPDATED ON A REGULAR BASIS AND DEPICT ALL ROADWAY LIGHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (1-800-892-0123) TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL GIVE IN WRITING TO THE ENGINEER FOR REVIEW, CONSTRUCTION STAGING FOR THE PROPOSED ROADWAY LIGHTING WORK, AND THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER.
- THE LIGHT POLE SETBACK SHALL BE 8'6" FROM THE BACK OF CURB TO THE FACE OF FOUNDATION.
- RESTORATION OF PARKWAY AND PROJECT SITE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES.
- THE PROPOSED TRENCH SHALL BE 30 INCH BELOW FINISHED GRADE
- ALL ELECTRICAL EQUIPMENT AND PRODUCT SHALL BE UL LISTED AND LABELED
- POLE FUSESD AND ASSOCIATED HARDWARE/MATERIAL SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM
- ALL UNIT DUCT SHALL BE INSTALLED USING THE BORE AND PULL METHOD. ALL BORING SHALL BE AT A MINIMUM DEPTH OF 30" BELOW EXISTING GRADES.
- THE ENGINEER WILL NOT AUTHORIZE PARTIAL ACCEPTANCE OF THE PROJECT. FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT WILL ONLY BE PERMITTED ONCE PER SECTION 801.13 OF THE STANDARD SPECIFICATIONS.

SYMBOLS

- EXISTING LIGHTING UNIT, REMAIN IN PLACE
- REM-S REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE
- REM REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE
- REM REMOVE EXISTING LIGHTING CONTROLLER
- LIGHT POLE, ALUMINUM, 40 FT MOUNTING HEIGHT, 12 FT DAVIT ARM, 15" DIA BOLT CIRCLE, MOUNTED ON BREAKAWAY TRANSFORMER BASE. LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT CLEAR LAMP, 240 VOLT BALLAST, CWA (MAG. REG) LIGHT POLE FOUNDATION - METAL
- LIGHT POLE, ALUMINUM, 40 FT MOUNTING HEIGHT, 10 FT DAVIT ARM, 15" DIA BOLT CIRCLE, MOUNTED ON BREAKAWAY TRANSFORMER BASE. LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT CLEAR LAMP, 240 VOLT BALLAST, CWA (MAG. REG) LIGHT POLE FOUNDATION - METAL
- STA 40+90 STATION NUMBER (TYP)
- LC1-A13 POLE NUMBER (TYP)
- CIRCUIT BREAKER DESIGNATION
- LIGHTING CONTROLLER NUMBER
- GROUND ROD, 3/4" DIA. x 10 FT
- ELECTRIC CABLE IN CONDUIT, NUMBER AND SIZE OF CONDUCTORS AND DIAMETER OF CONDUIT AS SHOWN IN DETAILS
- ELECTRIC CABLE IN DUCT, NUMBER AND SIZE AND TYPE OF CONDUCTORS AND DIAMETER OF DUCT AS SHOWN IN DETAILS
- T/P CONDUIT IN TRENCH (T) / CONDUIT, PUSHED (P) RIGID GALVANIZED STEEL CONDUIT DIAMETER x LENGTH
- UTILITY SERVICE, POLE MOUNTED TRANSFORMER
- LIGHTING CONTROLLER, SPECIAL

NOTE:

- THE MATERIALS AND WORK FOR THIS PROJECT SHALL CONFORM TO THE LATEST APPLICABLE STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ISSUED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. SPECIAL PROVISIONS CHECK LIST IS ATTACHED WITH THIS PROJECT.

ELECTRICAL ENGINEER



James R. Metz
Exp. 11/30/05

PROJECT DRAWINGS *E-2 TO *E-14 ARE PREPARED BY SUNJOY INC.

Sunjoy Inc.
Area Lighting
212 TIMBERCREST DRIVE
SCHAUMBURG, ILLINOIS
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION
73rd STREET (FAU 1569)
VILLAGE OF BEDFORD PARK

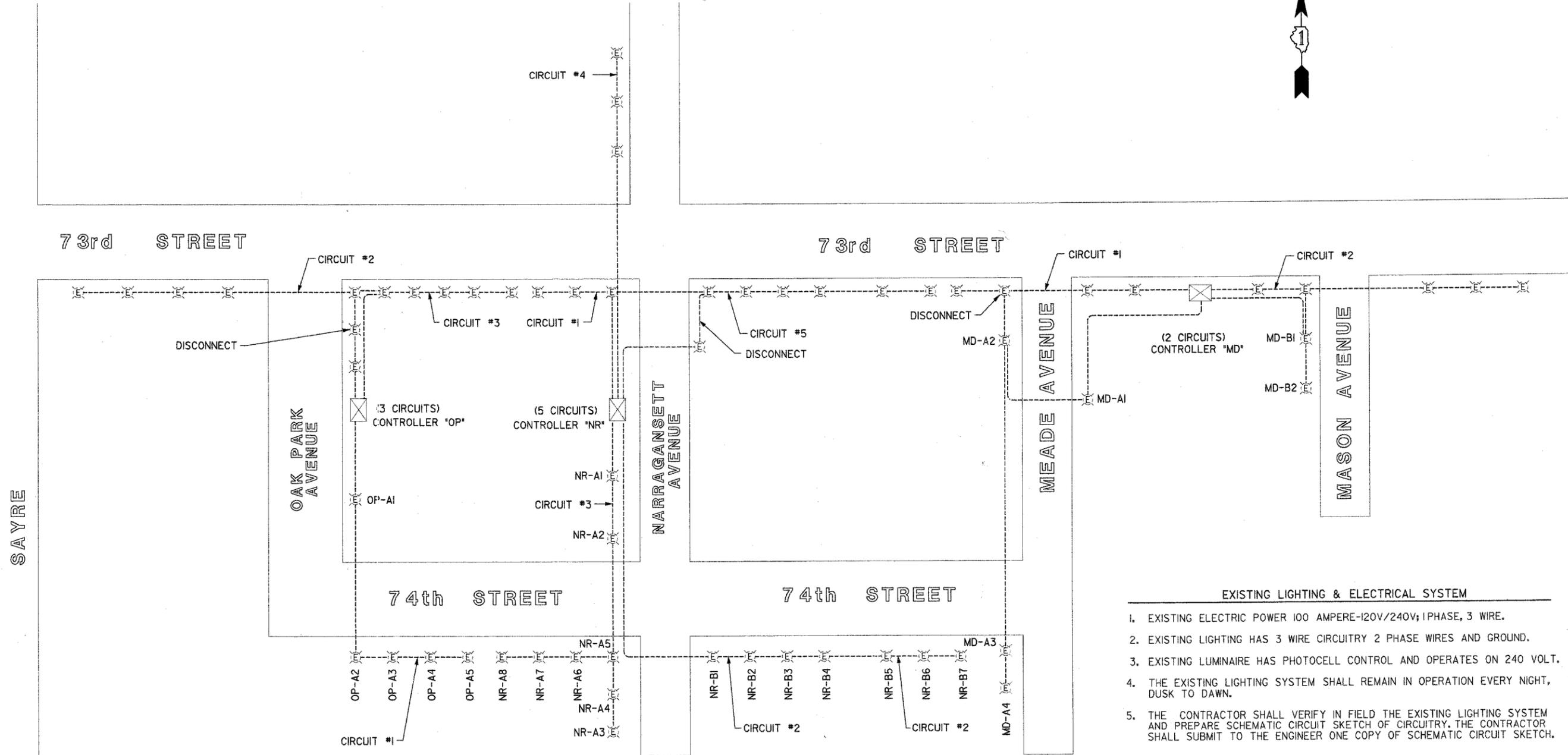
BILL OF MATERIALS, SYMBOLS & GENERAL NOTES

SCALE: 1"=20'
DATE: 04-15-05

DRAWN BY: HMQ
CHECKED BY: JS

REVISION 5-28-05
REVISION 5-21-05

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LT	COOK	14	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. - 83711				



- EXISTING LIGHTING & ELECTRICAL SYSTEM**
- EXISTING ELECTRIC POWER 100 AMPERE-120V/240V; 1PHASE, 3 WIRE.
 - EXISTING LIGHTING HAS 3 WIRE CIRCUITRY 2 PHASE WIRES AND GROUND.
 - EXISTING LUMINAIRE HAS PHOTOCELL CONTROL AND OPERATES ON 240 VOLT.
 - THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION EVERY NIGHT, DUSK TO DAWN.
 - THE CONTRACTOR SHALL VERIFY IN FIELD THE EXISTING LIGHTING SYSTEM AND PREPARE SCHEMATIC CIRCUIT SKETCH OF CIRCUITRY. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER ONE COPY OF SCHEMATIC CIRCUIT SKETCH.

LEGEND

⊠ EXISTING CONTROLLER

⊠ EXISTING LIGHT POLE

THESE DETAILS OBTAIN FROM VILLAGE OF BEDFORD PARK FOR REFERENCE ONLY

Sunjoy Inc.
Area Lighting
212 TIMBERCREST DRIVE
SCHAUMBURG, ILLINOIS
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION
73rd STREET (FAU 1569)
VILLAGE OF BEDFORD PARK

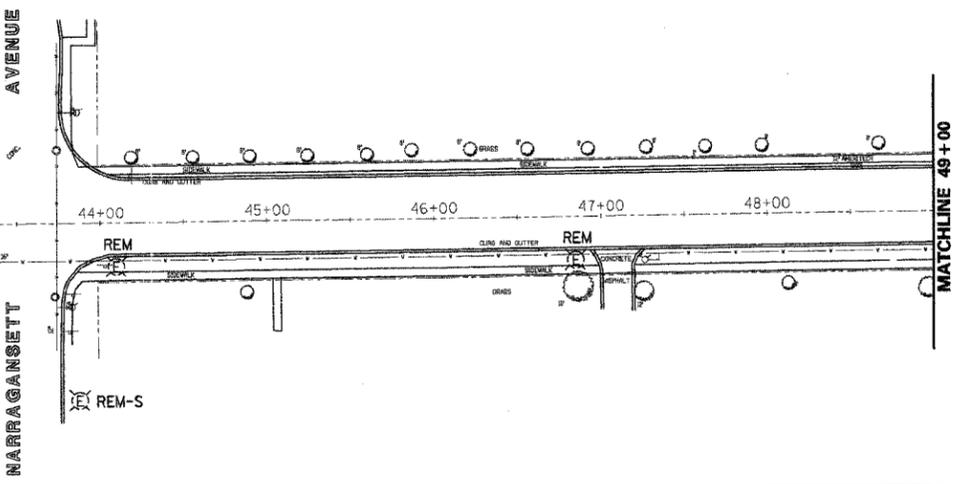
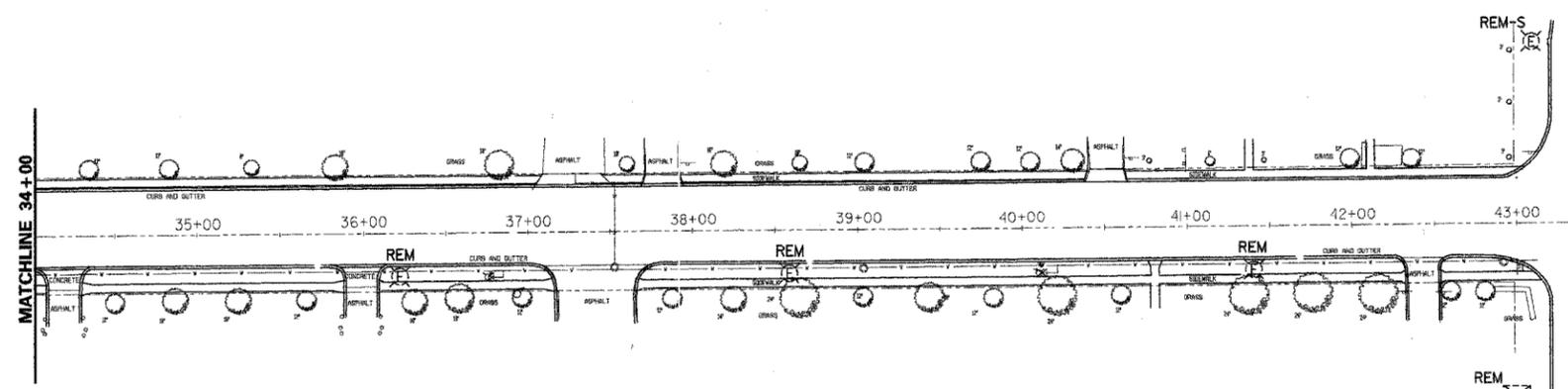
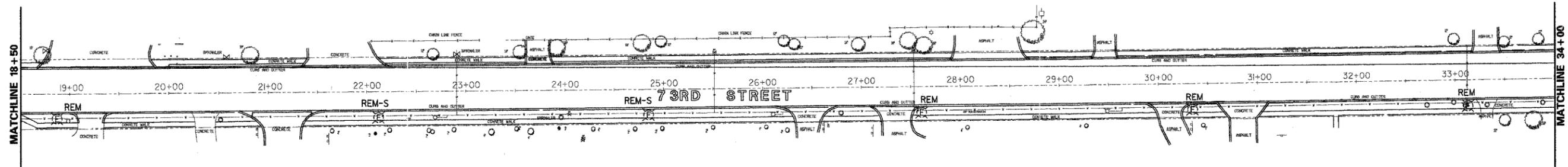
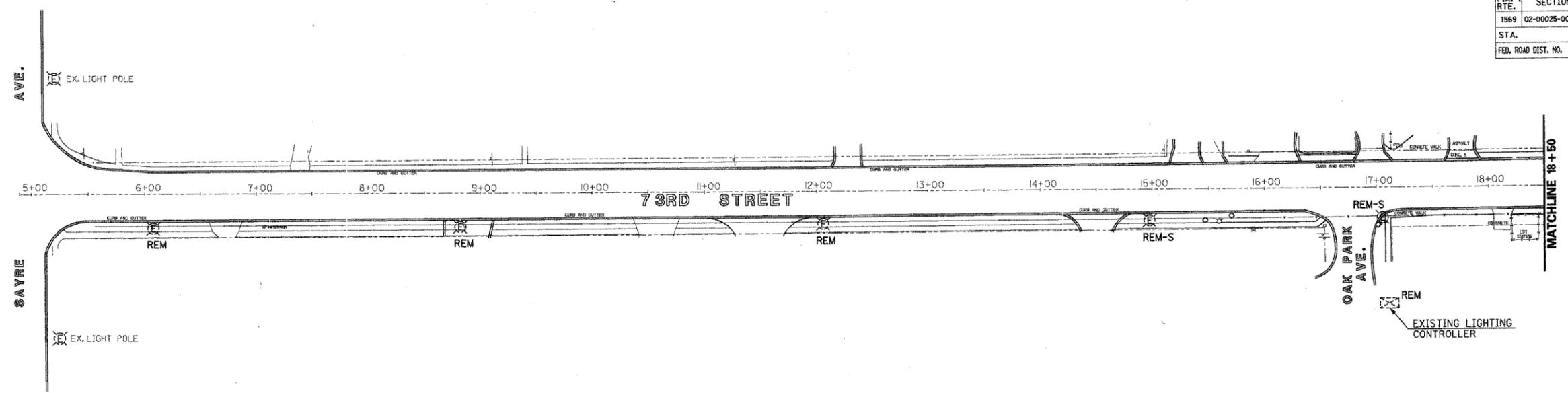
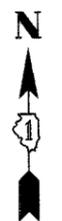
EXISTING LIGHTING SYSTEM WITH CIRCUITRY

SCALE: 1"=NTS
DATE: 04-15-05

DRAWN BY: HMO
CHECKED BY: JS

REVISION 05-28-05
REVISION 05-21-05

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LT	COOK	14	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. - 83711	



TEMPORARY LIGHTING
 DURING PROPOSED ROADWAY LIGHTING INSTALLATION, THE CONTRACTOR SHALL MAINTAIN EXISTING ROADWAY LIGHTING AS TEMPORARY LIGHTING. THE EXISTING ROADWAY LIGHTING SYSTEMS WHICH ARE BEING REPLACED MUST REMAIN OPERATIONAL THROUGHOUT THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT THE APPROVAL OF THE ENGINEER.

- EXISTING LIGHTING & ELECTRICAL SYSTEM**
- EXISTING ELECTRIC POWER 100 AMPERE-120V/240V, 1 PHASE, 3 WIRE.
 - EXISTING LIGHTING HAS 3 WIRE CIRCUITRY 2 PHASE WIRES AND GROUND.
 - EXISTING LUMINAIRE HAS PHOTOCELL CONTROL AND OPERATES ON 240 VOLT.
 - THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION EVERY NIGHT, DUSK TO DAWN.
 - THE CONTRACTOR SHALL VERIFY IN FIELD THE EXISTING LIGHTING SYSTEM AND PREPARE SCHEMATIC CIRCUIT SKETCH OF CIRCUITRY. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER ONE COPY OF SCHEMATIC CIRCUIT SKETCH.



REVISION 05-28-05

Sunjoy Inc.
 Area Lighting
 212 TIMBERCREST DRIVE
 SCHAMBURG, ILLINOIS
 60193-1572

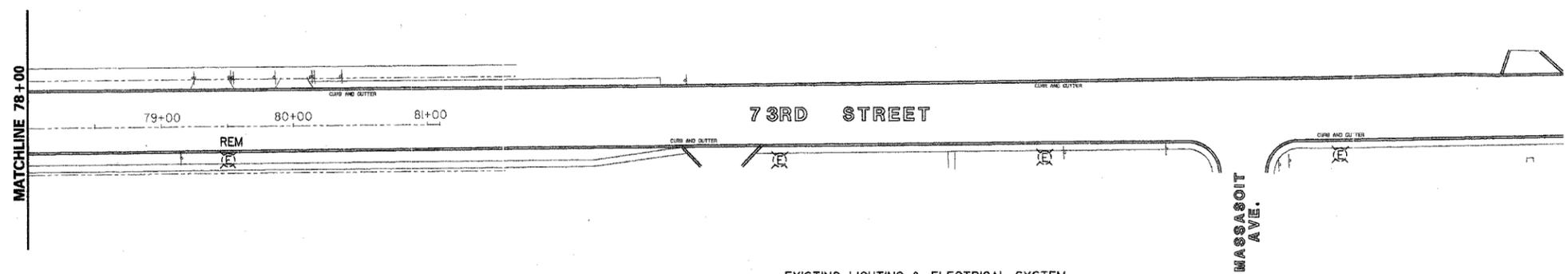
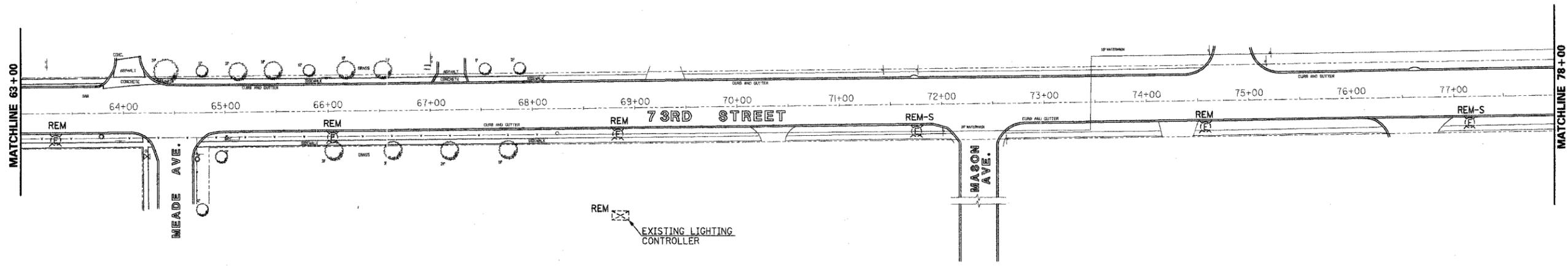
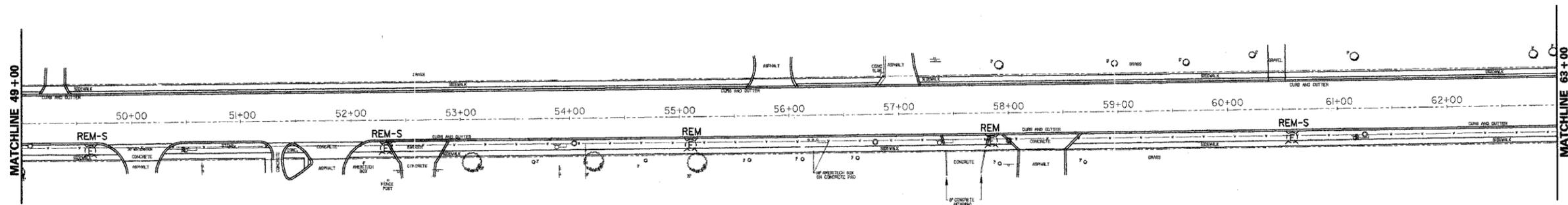
ILLINOIS DEPARTMENT OF TRANSPORTATION
 73rd STREET (FAU 1569)
 VILLAGE OF BEDFORD PARK

EXISTING LIGHTING REMOVAL PLAN
 STA. 5+00 TO STA. 49+00

SCALE: 1"=50'
 DATE: 02-20-05
 DRAWN BY: HMO
 CHECKED BY: JS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LT	COOK	14	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. - 63711				



EXISTING LIGHTING & ELECTRICAL SYSTEM

1. EXISTING ELECTRIC POWER 100 AMPERE-120V/240V, 1PHASE, 3 WIRE.
2. EXISTING LIGHTING HAS 3 WIRE CIRCUITRY 2 PHASE WIRES AND GROUND.
3. EXISTING LUMINAIRE HAS PHOTOCCELL CONTROL AND OPERATES ON 240 VOLT.
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TEMPORARY LIGHTING
 DURING PROPOSED ROADWAY LIGHTING INSTALLATION, THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING AS TEMPORARY LIGHTING. THE EXISTING ROADWAY LIGHTING SYSTEMS WHICH ARE BEING REPLACED MUST REMAIN OPERATIONAL THROUGHOUT THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER. NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHTTIME OPERATION WITHOUT THE APPROVAL OF THE ENGINEER.



REVISION 05-28-05

Sunjoy Inc.
Area Lighting
 212 TIMBERCREST DRIVE
 SCHAMBURG, ILLINOIS
 60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION
 73rd STREET (FAU 1569)
 VILLAGE OF BEDFORD PARK

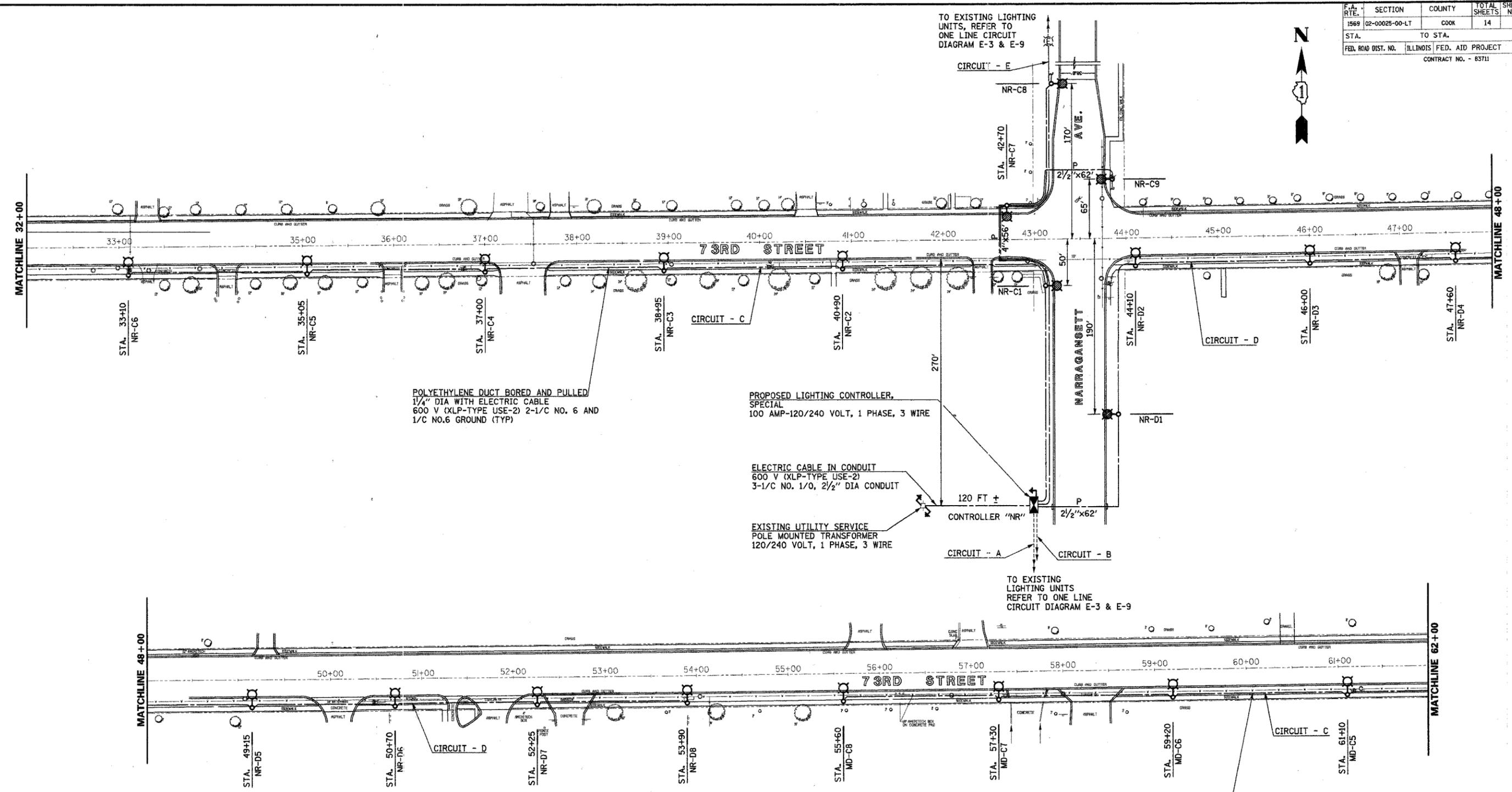
EXISTING LIGHTING REMOVAL PLAN
STA. 49+00 TO STA. 81+00

SCALE: 1"=50'
 DATE: 02-20-05

DRAWN BY: HMO
 CHECKED BY: JS

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-0025-00-LT	COOK	14	7
STA. 32+00 TO STA. 48+00		ILLINOIS FED. AID PROJECT		
CONTRACT NO. - 83711				



POLYETHYLENE DUCT BORED AND PULLED
1/4" DIA WITH ELECTRIC CABLE
600 V (XLP-TYPE USE-2) 2-1/C NO. 6 AND
1/C NO.6 GROUND (TYP)

PROPOSED LIGHTING CONTROLLER,
SPECIAL
100 AMP-120/240 VOLT, 1 PHASE, 3 WIRE

ELECTRIC CABLE IN CONDUIT
600 V (XLP-TYPE USE-2)
3-1/C NO. 1/0, 2 1/2" DIA CONDUIT

EXISTING UTILITY SERVICE
POLE MOUNTED TRANSFORMER
120/240 VOLT, 1 PHASE, 3 WIRE

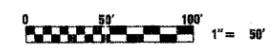
TO EXISTING LIGHTING UNITS
REFER TO ONE LINE
CIRCUIT DIAGRAM E-3 & E-9

POLYETHYLENE DUCT BORED AND PULLED
1/4" DIA WITH ELECTRIC CABLE
600 V (XLP-TYPE USE-2) 2-1/C NO. 6 AND
1/C NO.6 GROUND (TYP)

CAUTION FOR BURIED UTILITIES
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES (ABOVE AND BELOW GRADE) ON PROJECT SITE PLANS. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF THE UTILITIES (ABOVE AND BELOW GRADE). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE ENGINEER OF ANY EXISTING UTILITIES (ABOVE AND BELOW GRADE) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS.

- NOTE:**
1. THE CONTRACTOR SHALL CONSULT WITH THE UTILITY COMPANY AND SHALL MODIFY THE EXISTING UTILITY SERVICE AS DETAILED ON DRAWING SHEET NO. E-13
 2. THE CONTRACTOR SHALL MODIFY THE EXISTING LIGHTING SYSTEM AS SHOWN AND/OR AS DIRECTED BY THE ENGINEER.



Sunjoy Inc.
Area Lighting

212 TIMBERCREST DRIVE
SCHAUMBURG, ILLINOIS
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION
73rd STREET (FAU 1569)
VILLAGE OF BEDFORD PARK

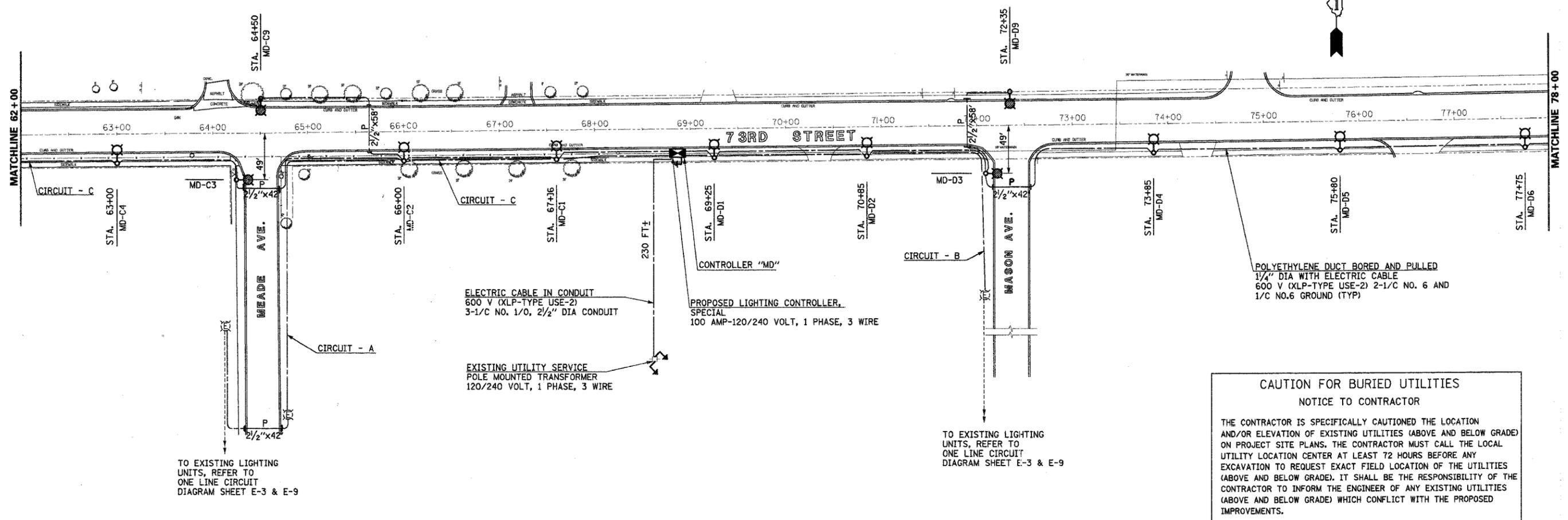
PROPOSED LIGHTING IMPROVEMENT PLAN
STA. 32+00 TO STA. 62+00

SCALE: 1"=50'
DATE: 04-15-05

DRAWN BY: HMO
CHECKED BY: JS

REVISION 05-28-05
REVISION 05-21-05

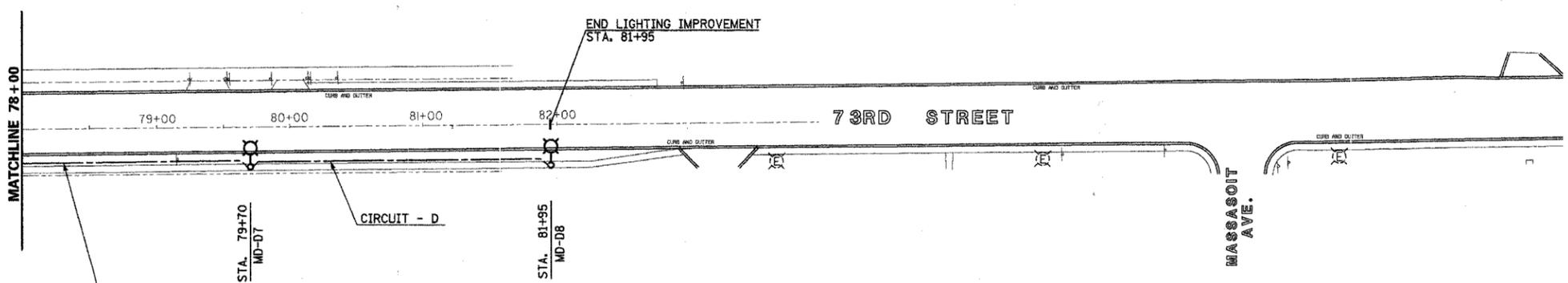
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-1T	COOK	14	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. - 93711				



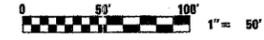
CAUTION FOR BURIED UTILITIES
NOTICE TO CONTRACTOR

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- NOTE:**
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 2. THE CONTRACTOR SHALL MODIFY THE EXISTING LIGHTING SYSTEM AS SHOWN AND/OR AS DIRECTED BY THE ENGINEER.



POLYETHYLENE DUCT BORED AND PULLED
 1/4" DIA WITH ELECTRIC CABLE
 600 V (XLP-TYPE USE-2) 2-1/C NO. 6 AND
 1/C NO.6 GROUND (TYP)



Sunjoy Inc.
Area Lighting
 212 TIMBERCREST DRIVE
 SCHAMBURG, ILLINOIS
 60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION
 73rd STREET (FAU 1569)
 VILLAGE OF BEDFORD PARK

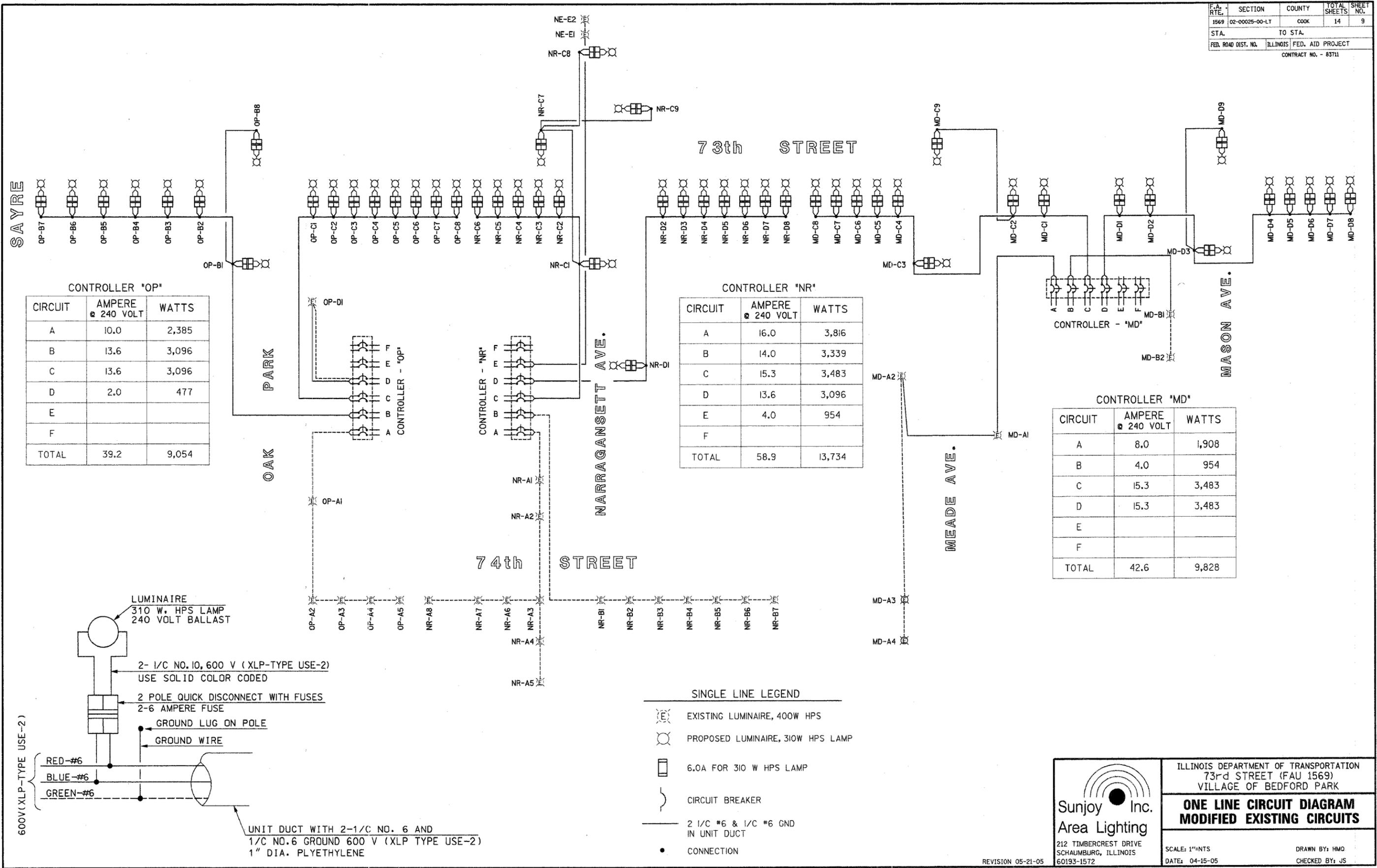
PROPOSED LIGHTING IMPROVEMENT PLAN
STA. 62+00 TO STA. 81+95

SCALE: 1"=50'
 DATE: 04-15-05

DRAWN BY: HMJ
 CHECKED BY: JS

REVISION 05-28-05
 REVISION 05-21-05

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LT	COOK	14	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. - 83711				



ILLINOIS DEPARTMENT OF TRANSPORTATION
73rd STREET (FAU 1569)
VILLAGE OF BEDFORD PARK

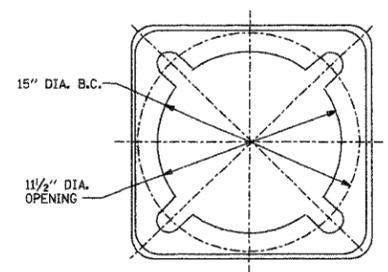
**ONE LINE CIRCUIT DIAGRAM
MODIFIED EXISTING CIRCUITS**

SCALE: 1"=125'
DATE: 04-15-05

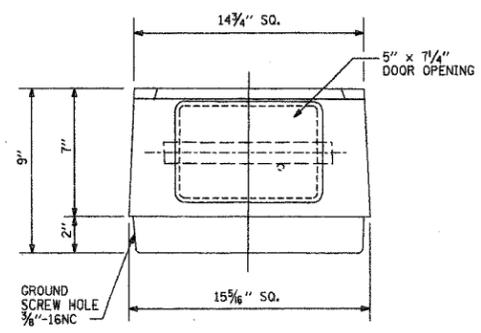
DRAWN BY: HMQ
CHECKED BY: JS

REVISION 05-21-05

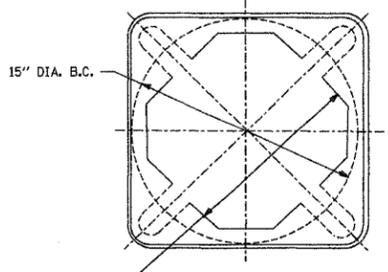
P. & A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LI	COOK	14	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ALUMINUM	FED. AID PROJECT	
CONTRACT NO. - 83711				



TOP VIEW

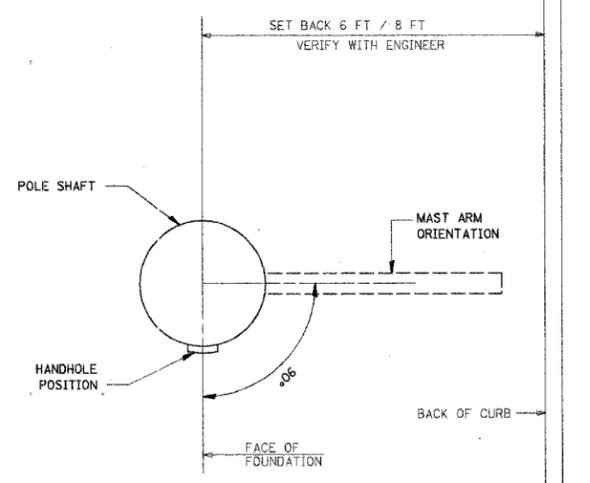


ELEVATION

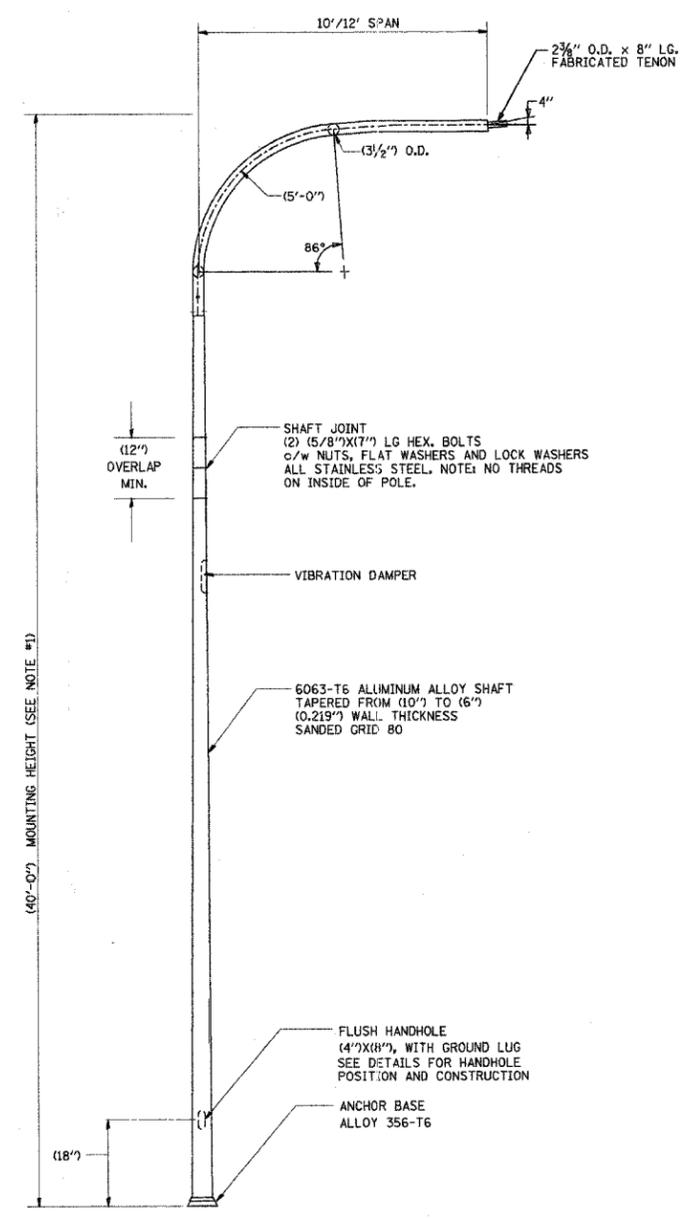


BOTTOM VIEW

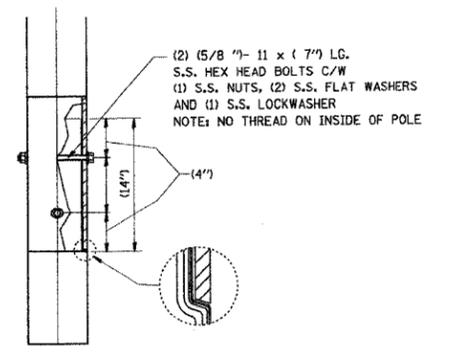
BREAKAWAY DEVICE, TRANSFORMER BASE
 DETAILS 15" BOLT CIRCLE
 THE BREAKAWAY TRANSFORMER BASE SHALL HAVE A LISTING OF APPROVAL BY FHWA COMPLIANCE TO 1985 AASHTO REQUIREMENTS.



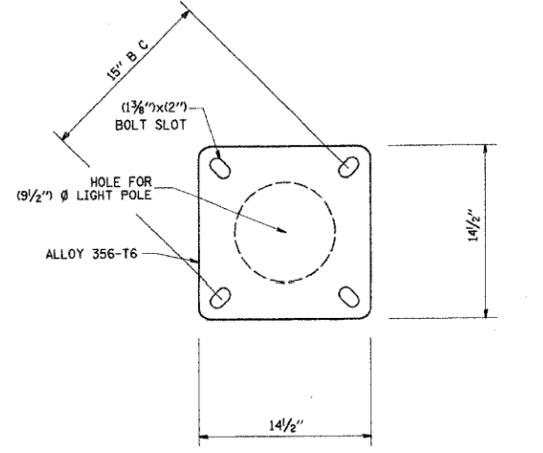
POSITION OF HANDHOLE AND MAST ARM MOUNTING IN RELATION TO TRAFFIC FLOW



SINGLE ARM POLE

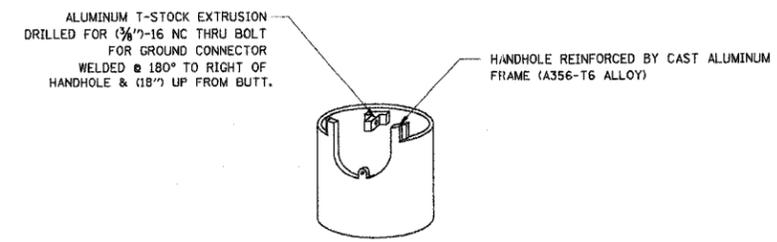


DAVIT ARM CONNECTION
 (14") OVERLAP SHOWN



LIGHT POLE BASE PLATE DETAIL
 (FOR POLE MOUNTED ON (15 INCH) BOLT CIRCLE FOUNDATION)

- NOTES:**
1. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 2. BOLT SLOTS WILL BE (1 3/8") X (2") CENTERED.
 3. TWO PIECE SHAFT WILL BE MATCH MARKED AND INTERCHANGABLE BETWEEN DIFFERENT UNITS. STUD BOLT WILL BE (5/8") DIA. WITH NUT, FLAT WASHER, AND LOCK WASHER. THERE WILL BE NO THREADS ON THE BOLT INSIDE THE POLE SHAFT.
 4. THE LIGHT POLE WILL MEET A.A.S.H.T.O. DESIGN CRITERIA
 5. THE DUCT SHALL EXTEND INTO POLE A MINIMUM OF 12" ABOVE THE BASE



HANDHOLE AND GROUND LUG DETAIL

REVISIONS	
NAME	DATE
D. DREW	4-2-92
D. DREW	5-7-92

ILLINOIS DEPARTMENT OF TRANSPORTATION
 73rd STREET (FAU 1569)
 VILLAGE OF BEDFORD PARK

DAVIT LIGHT POLE
40 FT MOUNTING HEIGHT
10 FT/12 FT MAST ARM

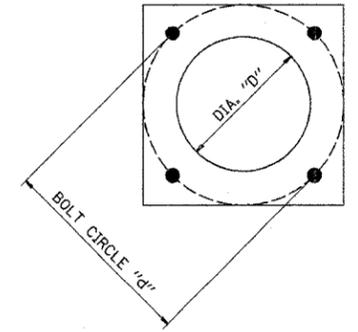
SCALE: NONE
 DATE: **DATE**
 DRAWN BY: LEY
 CHECKED BY: BELL

DATE-TIME
 DGN-SPEC
 VI-BELL

P.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LT	COOK	14	11
STA.	TO STA.			
FED. ROAD DIST. NO.	BLINDS	FED. AID PROJECT		
CONTRACT NO. - 83711				

NOTES:

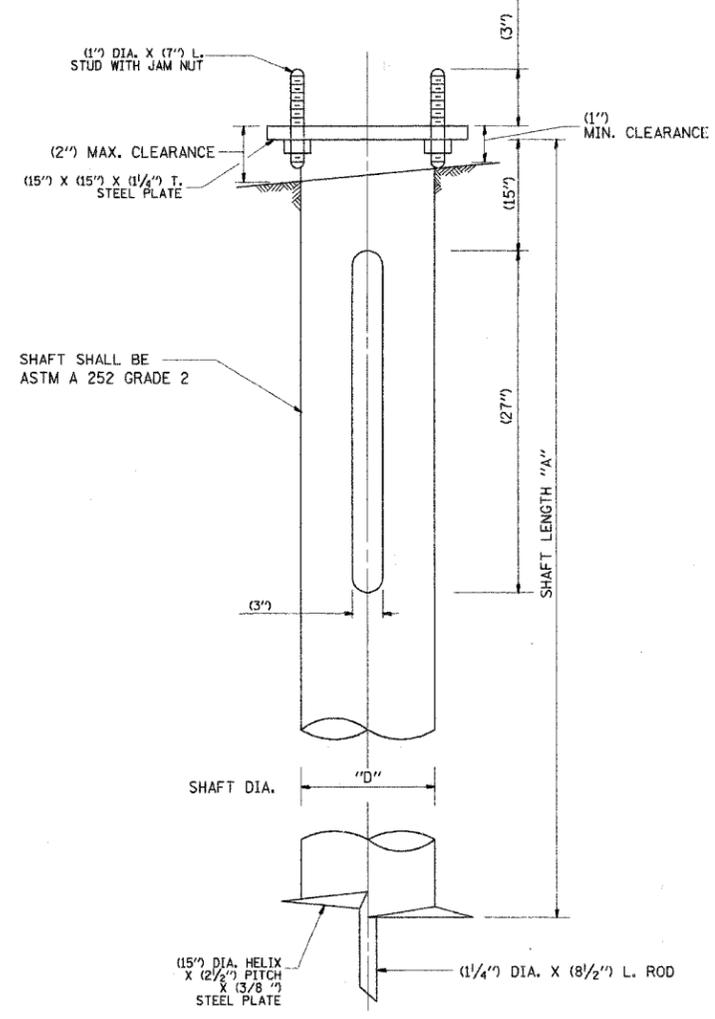
1. THE HELIX FOUNDATION SHAFT BASE PLATES, HELICAL PLATE, HELIX SCREW, PILOT POINT, AND STOCK BAR SHALL BE ASTM A36 STRUCTURAL STEEL OR BETTER.
2. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN (1/4 ") FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING (10,000 FT/LBS) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
3. THE ENTIRE HELIX FOUNDATION SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123, GRADE B. NO TOUCH-UP WILL BE PERMITTED.
4. THE HARDWARE, STUDS, JAM NUTS, AND HEX NUTS SHALL BE ASTM A325 STEEL OR BETTER FLAT AND LOCK WASHERS SHALL BE OF STEEL. THE ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153. HEX NUTS SHALL BE IN CONFORMANCE WITH ASTM A563, GRADE A AND WASHERS SHALL BE IN CONFORMANCE WITH ASTM F436.
5. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
6. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
7. ANCHOR BOLTS SHALL BE (1-INCH) DIAMETER AND SHALL COMPLY WITH THE REQUIREMENTS OF ASTM DESIGNATION A687.
8. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
9. CONTRACTOR SHALL FILL HOLLOW FOUNDATION WITH DENSELY PACKED SAND AS SPECIFIED.



FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUND'N		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0"	15'-0"	8-#6 X 12'-6"	#3 X 122'	8-#6X14'X3'	#3 X 141'
MEDIUM CLAY	9'-6"	10'-9"	8-#6 X 9'-0"	#3 X 90'	8-#6 X 10'-0"	#3 X 100'
STIFF CLAY	7'-0"	8'-0"	8-#6 X 6'-6"	#3 X 66'	8-#6 X 7'-6"	#3 X 76'
LOOSE SAND	9'-0"	10'-0"	8-#6 X 8'-6"	#3 X 85'	8-#6 X 9'-6"	#3 X 94'
MEDIUM SAND	8'-3"	9'-0"	8-#6 X 8'-0"	#3 X 78'	8-#6 X 8'-6"	#3 X 85'
DENSE SAND	7'-9"	9'-0"	8-#6 X 7'-6"	#3 X 73'	8-#6 X 8'-6"	#3 X 85'
ROCK OR SOLIDIFIED SLAG	5'-0"	5'-0"	NONE	NONE	NONE	NONE

(FROM IDOT STANDARD FOUNDATION DRAWING)



METAL FOUNDATION DETAIL

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE "d"	SHAFT LENGTH "A"		SHAFT DIA. "D"
		ON FLAT GROUND	ON 2:1 OR STEEP SLOPE	
(47-1/2 FT.)	(15")	(10'-0")	(10'-0")	(10")
(40 FT.)	(15")	(6'-0")	-	(8")

REVISIONS	
NAME	DATE

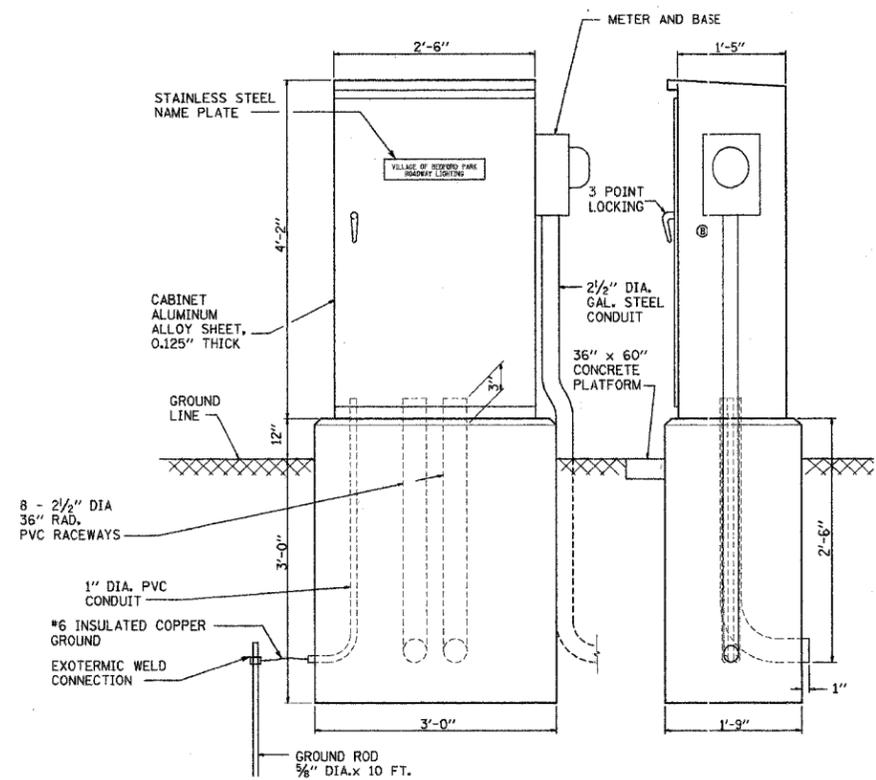
ILLINOIS DEPARTMENT OF TRANSPORTATION
73rd STREET (FAU 1569)
VILLAGE OF BEDFORD PARK
LIGHT POLE FOUNDATION, METAL

SCALE: NONE
DATE **DATE**

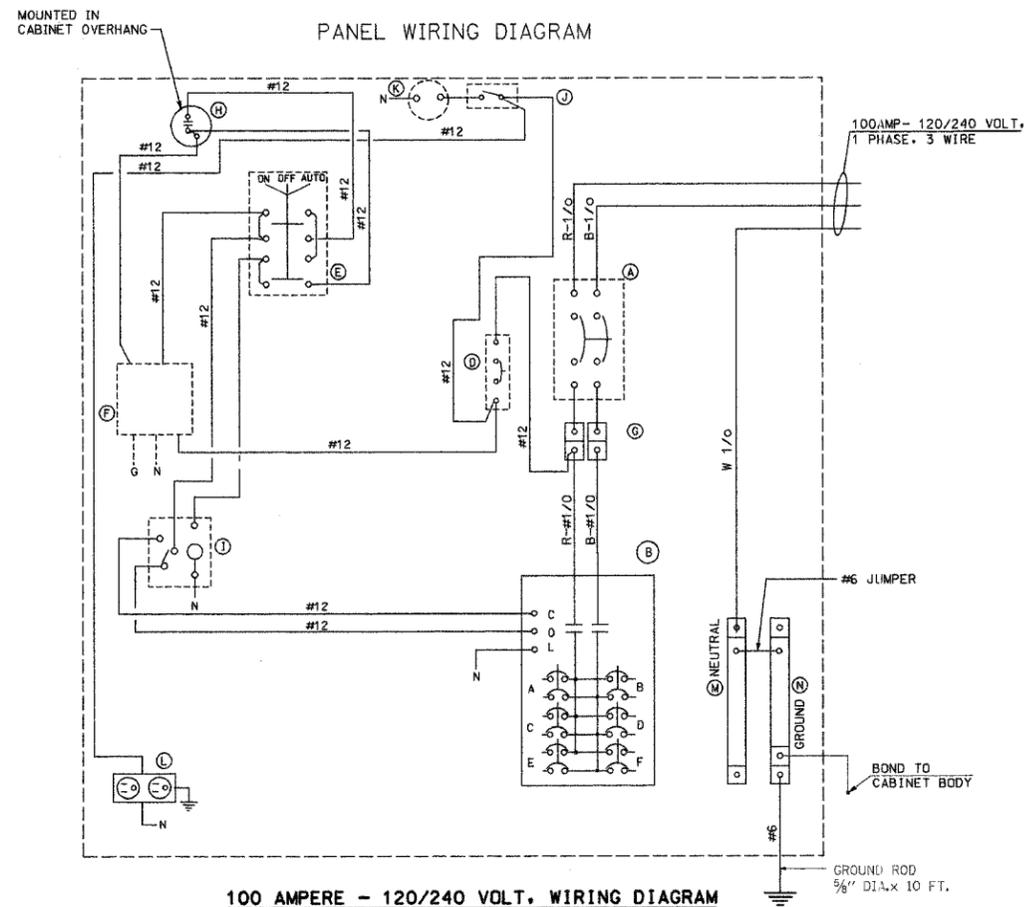
DRAWN BY DB
CHECKED BY

DATE-TIME
DGN-SPEC
VI-BE20

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1969	02-00025-00-LT	COOK	14	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. - 83711				



CONTROL CABINET - SPECIAL

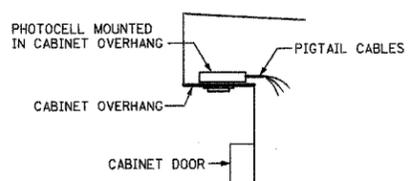


100 AMPERE - 120/240 VOLT. WIRING DIAGRAM

DEVICE SCHEDULE		
ITEM	QUANT.	DESCRIPTION
(A)	1	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC BOLT-ON TYPE, 2- POLE-100 AMPERE, 225 A FRAME, 240V _{ac} , NON INTERCHANGABLE TRIP, INTERRUPTING CAPACITY OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPERES AT 480 VOLT.
(B)	1	100 A CONTACTOR PANEL BOARD INTERIOR, 12 CKT, 1 PH, 3 WIRE, 6-2P/40 A BREAKERS, MOLDED CASE, THERMAL MAGNETIC BOLT-ON TYPE, 40 A, 480 A FRAME, 240V _{ac} , NON INTERCHANGABLE TRIP, INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 480 VOLT.
(C)		SPARE
(D)	1	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 240 V., BOLT-ON TYPE, 15 A. WITH AN INTERRUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277 V.
(E)	1	SELECTOR SWITCH, 3 POSITION, ON-OFF-AUTO
(F)	1	5 WIRE SURGE PROTECTOR, EDCO-4803
(G)	1	TERMINAL BLOCKS FOR I/O CABLE, 600 VOLT - 620 AMP
(H)	1	PHOTO ELECTRIC CELL, MOUNTED IN CABINET OVERHANG
(I)	1	POWER RELAY, 120 VOLT COIL
(J)	1	20 A. SPST MICRO SWITCH MOUNTED ON A DOOR.
(K)	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX
(L)	1	GFI RECEPTACLE, 120 V., 20 A., PREMIUM SPEC. GRADE, NEMA REFERENCE 5-20R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.
(M)	1	NEUTRAL BUSS BAR
(N)	1	GROUND BUSS BAR

NOTES

- THE CONTROLLER FABRICATION SHALL COMPLY TO ARTICLE 1068.01 OF THE STANDARD SPECIFICATION.
- THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3R CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.
- THE CONTRACTOR SHALL REMOVE VEGETATION AND TOPSOIL. LEVEL THE AREA IN FRONT OF THE CONTROL CABINET DOOR AND PLACE LENGTH WISE, PARALLEL TO CONTROL CABINET. A PRECAST PAD, 36"x60"x3" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE CONTROL CABINET.
- CONTROL WIRE SHALL BE #12 AWG, 600V, TYPE "SIS" STRANDED COPPER GRAY SWITCH BOARD WIRE. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED.
- THE ELECTRIC METER BOX SHALL BE MOUNTED ON THE SIDE OF THE CONTROL CABINET, NEAR TO THE SERVICE POLE AND/OR AS DIRECTED BY THE ENGINEER.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET. THE CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUSS CONNECTION AND GREEN FOR GROUND BUSS CONNECTORS.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. THE HOLDER AND POUCH SHALL BE MOUNTED SO THAT RAIN WATER OR CONDENSED WATER CANNOT ENTER THE POUCH WITH THE CABINET DOOR OPEN. FURNISH A LAMINATED APPROVED COPY OF THE "CONTROL CABINET WIRING DIAGRAM".
- THE CONTRACTOR SHALL OBTAIN ANCHOR BOLTS LOCATION TEMPLATE FROM THE FABRICATOR OF LIGHTING CONTROLLER



PHOTOCELL IN CABINET OVERHANG DETAIL
NOT TO SCALE

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Sunjoy Inc.
Area Lighting
212 TIMBERCREST DRIVE
SCHAUMBURG, ILLINOIS
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION
73rd STREET (FAU 1569)
VILLAGE OF BEDFORD PARK

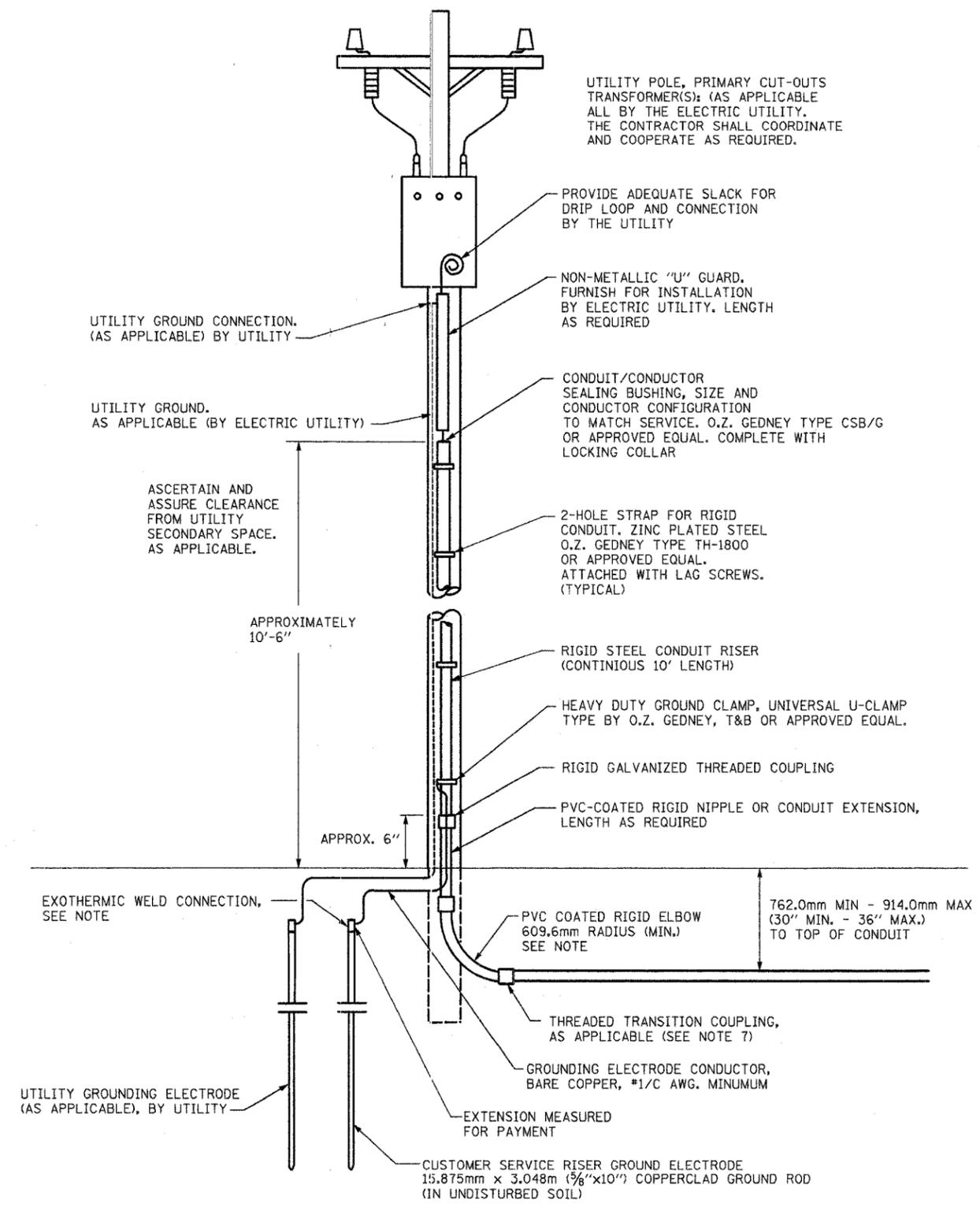
LIGHTING CONTROLLER SPECIAL
100 AMPERE-120 VOLT/240 VOLT

SCALE: NONE
DATE: 04-15-05

DRAWN BY: HMQ
CHECKED BY: JS

REVISION 5-21-05

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LT	COOK	14	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. - 83711				



NOTES:

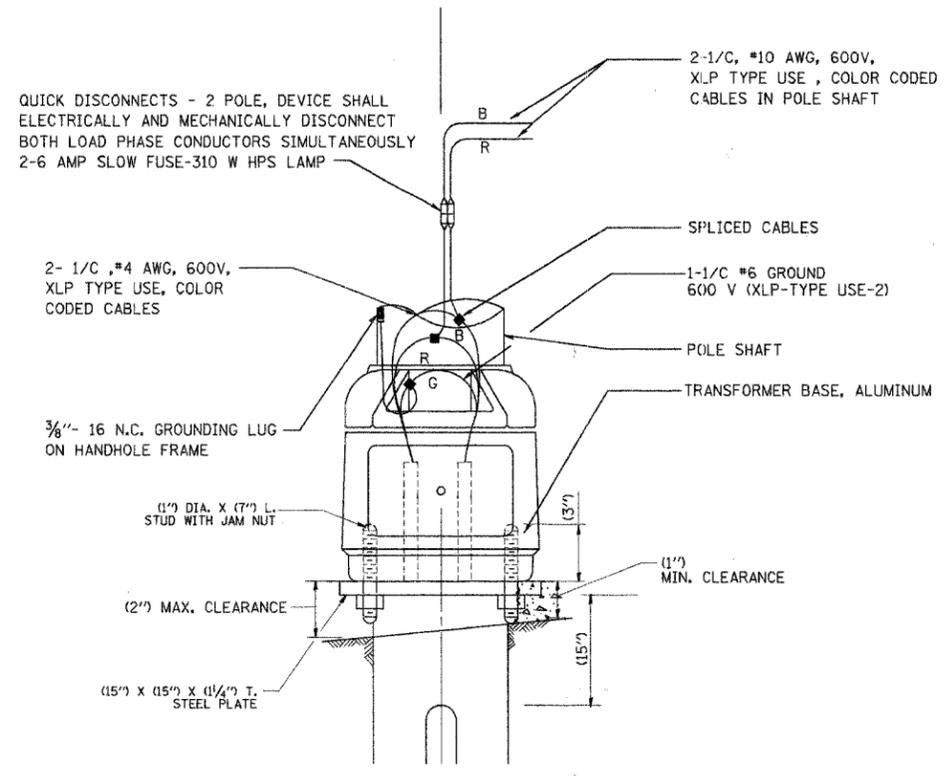
- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF ELECTRIC UTILITY SERVICE INSTALLATION.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF SERVICE CONDUCTOR RACEWAY AS INDICATED.
- PVC COATED RACEWAY AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY 1/32" U" 3/32" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE AS INDICATED SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRICAL UTILITY SERVICE INSTALLATION PAY ITEM.
- THE SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS, THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THIS UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION.

**PROPOSED SERVICE INSTALLATION
POLE TOP MOUNTED TRANSFORMER**

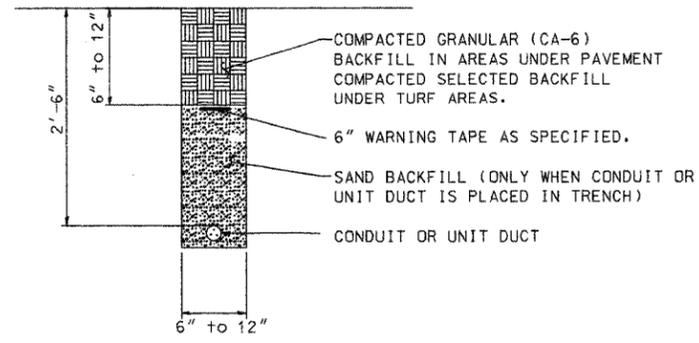
<p>Sunjoy Inc. Area Lighting 212 TIMBERCREST DRIVE SCHAUMBURG, ILLINOIS 60193-1572</p>	<p>ILLINOIS DEPARTMENT OF TRANSPORTATION 73rd STREET (FAU 1569) VILLAGE OF BEDFORD PARK</p>
	<p>ELECTRIC SERVICE INSTALLATION ABOVE GROUND BE-220</p>
<p>SCALE: NONE DATE: 04-15-05</p>	<p>DRAWN BY: HMQ CHECKED BY: JS</p>

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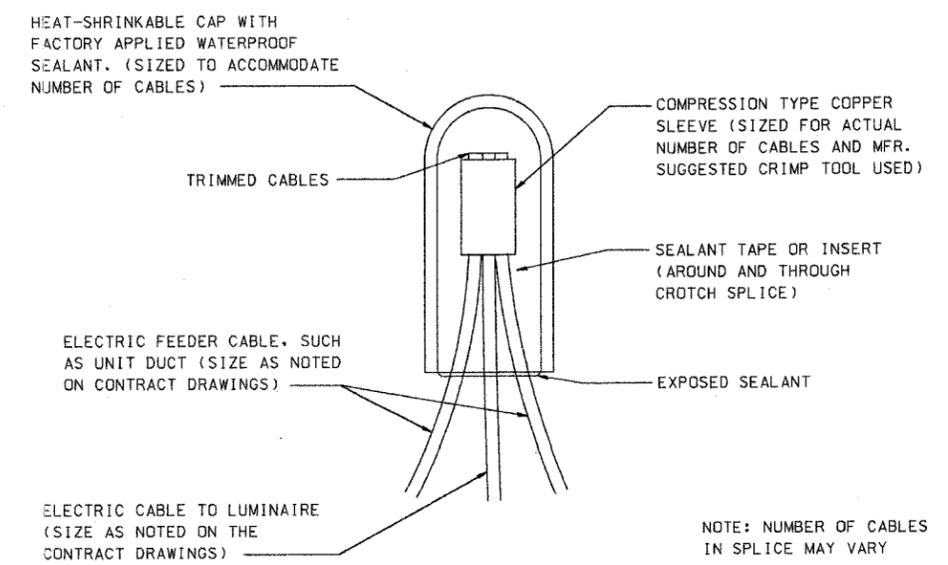
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1569	02-00025-00-LT	COOK	14	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. - 83711				



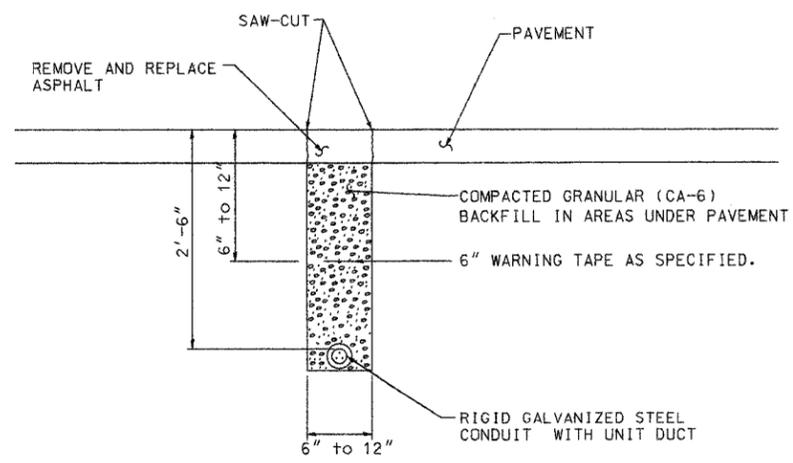
POLE BASE WIRING WITH QUICK DISCONNECTS AND BREAKAWAY DEVICE TRANSFORMER BASE



TRENCH AND BACKFILL



SPLICING ELECTRIC CABLE



TRENCH AND BACKFILL UNDER ASPHALT PAVEMENT

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Sunjoy Inc.
Area Lighting
212 TIMBERCREST DRIVE
SCHALMBURG, ILLINOIS
60193-1572

ILLINOIS DEPARTMENT OF TRANSPORTATION
73rd STREET (FAU 1569)
VILLAGE OF BEDFORD PARK

ELECTRICAL DETAILS

REVISION 05-28-05
REVISION 05-21-05

SCALE: NONE
DATE: 04-15-05
DRAWN BY: HMO
CHECKED BY: JS