

LOCATION/SHEET INDEX MAP

BENCHMARK			
BM #	DESC.	NAD83 DATUM	NAD83 DATUM
CLV BM No. D368 3	U.S.C. & G.S. BRASS DISC SET IN ROCK ON THE EAST SIDE OF CHARLESTON BOULEVARD AND SOUTH OF THE RED ROCK DETENTION BASIN.	3246.71 (FEET)	989.589 (METERS)

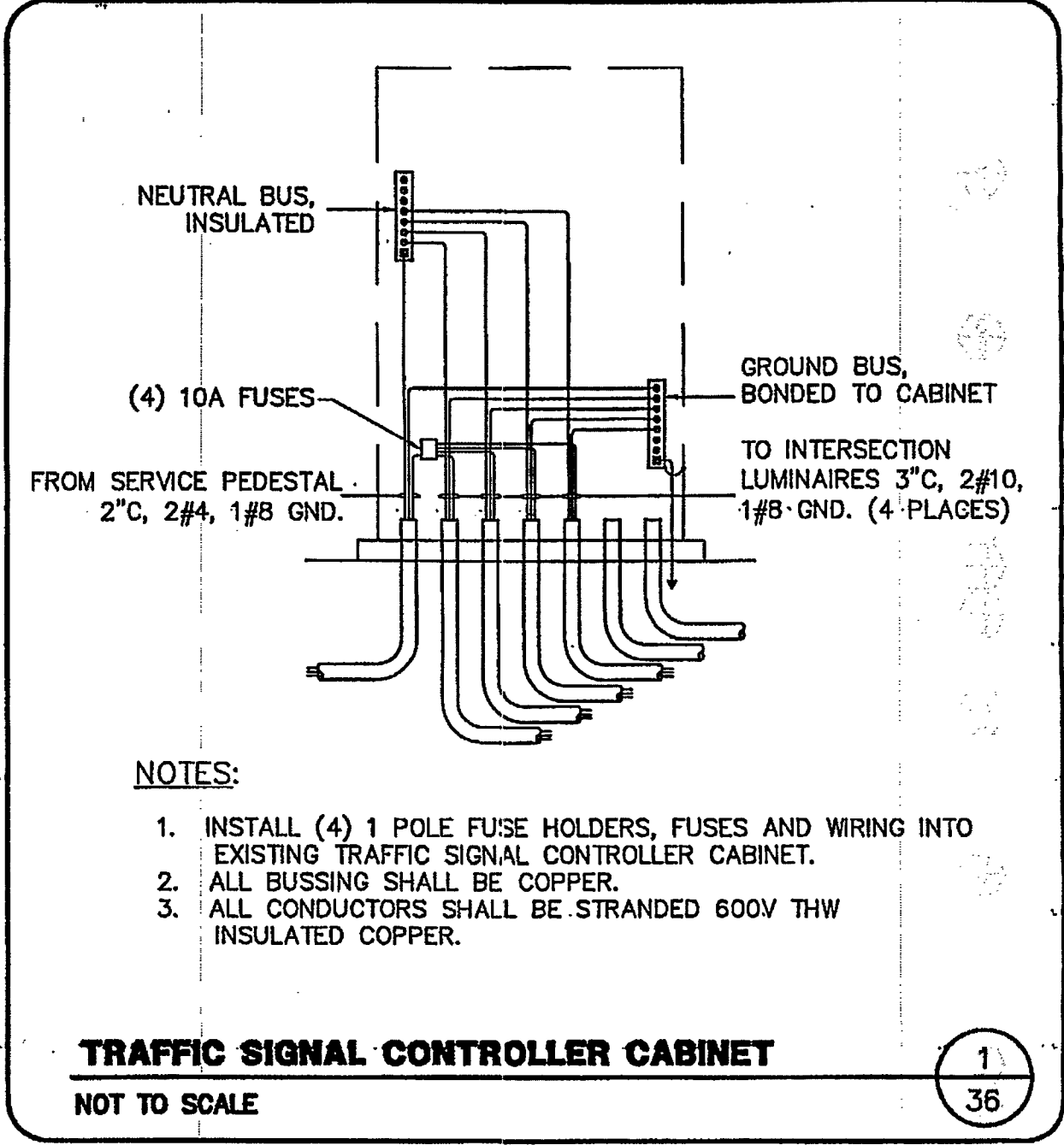
BASIS OF BEARINGS
 NORTH 89°45'05" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA

LOCATION
 LYING WITHIN SECTIONS 34 TOWNSHIP 20 SOUTH, RANGE 59 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA.

SUMMERLIN STREET CLASSIFICATION
 CROSSBRIDGE DRIVE: NEIGHBORHOOD COLLECTOR LEVEL 1 AND LEVEL 2 WITH SHARED BIKE LANES
 SKY VISTA DRIVE: NEIGHBORHOOD ARTERIAL WITH BIKE LANES
 SUNCREEK ROAD: NEIGHBORHOOD COLLECTOR LEVEL 1 WITH SHARED BIKE LANES
 ALTA DRIVE: NEIGHBORHOOD ARTERIAL WITH BIKE LANES

SERVICE PEDESTAL CIRCUIT CAPACITY VERIFICATION

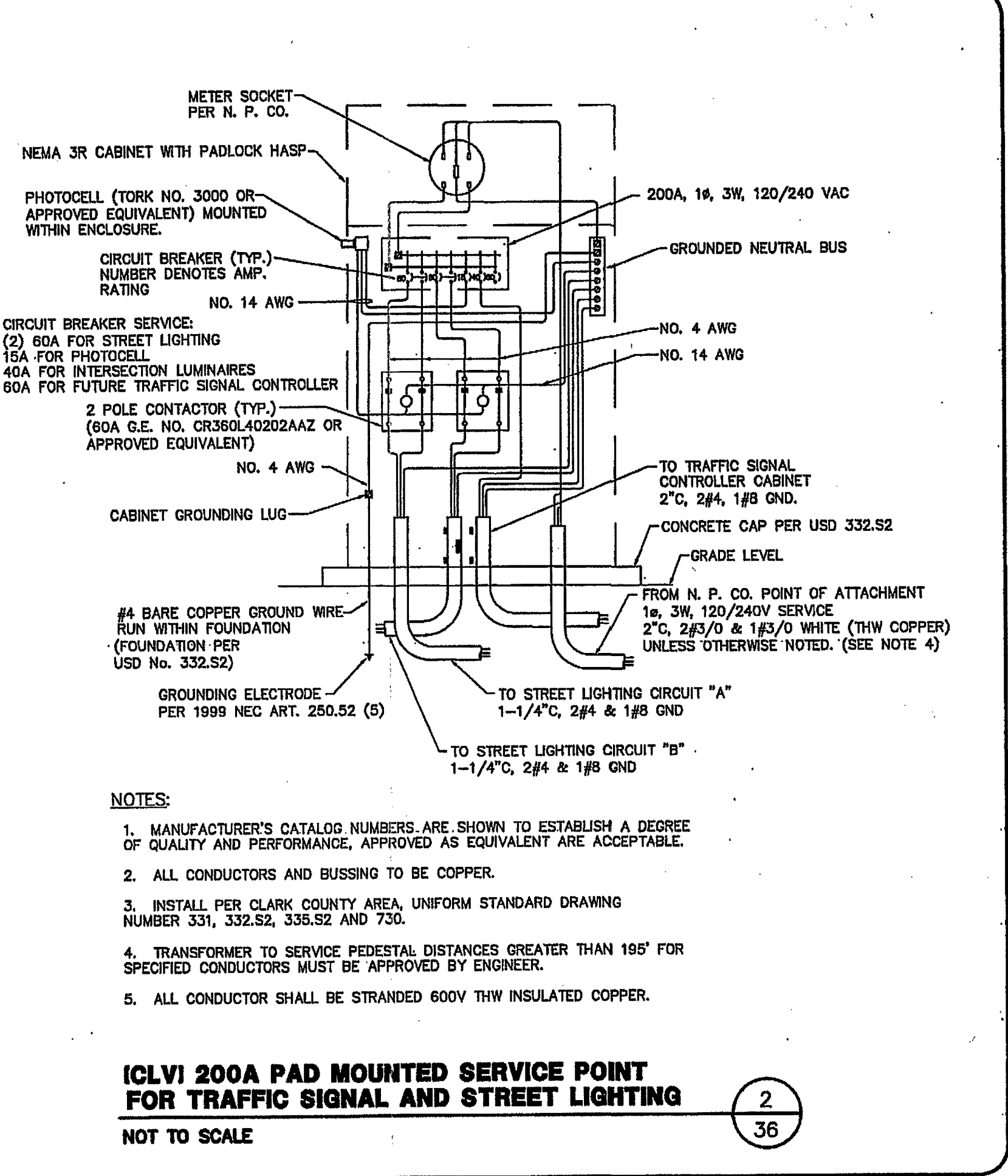
CIRCUIT NAME:	SP3 (A)		SP3 (B)		SP4 (A)		SP4 (B)	
	STREET LIGHTING (PROPOSED)	STREET LIGHTING (EXISTING)	STREET LIGHTING (PROPOSED)	STREET LIGHTING (EXISTING)	STREET LIGHTING (PROPOSED)	STREET LIGHTING (EXISTING)	STREET LIGHTING (PROPOSED)	STREET LIGHTING (EXISTING)
VOLTAGE:	240	240	240	240	240	240	240	240
CIRCUIT CAPACITY:	60	60	60	60	60	60	60	60
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48	48	48	48	48	48	48	48
EXISTING CIRCUIT LOAD AMPS =	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS
100 WATT SINGLE LUMINAIRES AT 240V = 0.50 AMPS	0	0.00	0	0.00	0	0.00	0	0.00
150 WATT SINGLE LUMINAIRES AT 240V = 0.75 AMPS	2	1.50	11	8.25	1	0.75	1	0.75
150 WATT TWIN LUMINAIRES AT 240V = 1.50 AMPS	2	3.00	1	1.50	5	7.50	2	3.00
400 WATT SINGLE LUMINAIRES AT 120V = 4.00 AMPS	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL PROPOSED LOAD AMPS =	4.50	9.75	8.25	3.75	4.50	9.75	8.25	12.75
EXISTING PLUS PROPOSED LOAD AMPS =	4.50	9.75	8.25	3.75	4.50	9.75	8.25	12.75
REMAINING AVAILABLE LOAD AMPS: MAXIMUM - EXISTING - PROPOSED =	43.50	38.25	39.75	35.25	43.50	38.25	39.75	35.25
FUTURE LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS
100 WATT SINGLE LUMINAIRES AT 240V = 0.50 AMPS	0	0.00	0	0.00	0	0.00	0	0.00
150 WATT SINGLE LUMINAIRES AT 240V = 0.75 AMPS	0	0.00	3	2.25	1	0.75	1	0.75
150 WATT TWIN LUMINAIRES AT 240V = 1.50 AMPS	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL FUTURE LOAD AMPS =	0.00	2.25	0.00	0.75	0.00	0.75	0.00	0.75
EXISTING PLUS PROPOSED PLUS FUTURE LOAD AMPS =	4.50	12.00	9.00	4.50	4.50	10.50	9.00	13.50
FUTURE REMAINING AVAILABLE LOAD AMPS: MAX. - EX. - PR. - FUT. =	43.50	36.00	39.50	34.50	43.50	36.00	39.50	34.50



ELECTRICAL SERVICE NOTES
 SP4: EXISTING 200 AMP SERVICE PEDESTAL. REFER TO SUMMERLIN VILLAGE 24 UNIT 1 IMPROVEMENTS FOR ADDITIONAL INFORMATION INCLUDING EXISTING CONNECTED LOADS.
 SP3: 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V PAD MOUNTED SERVICE PEDESTALS. FEEDERS FROM NV ENERGY POINTS OF CONNECTION TO BE 2" C, 2#3/0 THW, 1#3/0 WHITE THW (COPPER). TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195 FEET FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER. SERVICE PEDESTALS SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMERS.
 THE FOLLOWING SHALL BE INCLUDED IN EACH SERVICE PEDESTAL:
 (2) 60 AMP, 240V, 2-POLE CIRCUIT BREAKERS,
 (2) 60 AMP, 240V, 2-POLE LIGHTING CONTACTORS,
 (2) TEST SWITCHES (ONE FOR EACH CONTACTOR),
 PHOTOELECTRIC CONTROL,
 (1) 15 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR LIGHTING CONTROLS.
 CONTRACTOR TO PROVIDE (2) 2" CONDUITS FROM EACH SERVICE PEDESTAL TO FIRST STREET LIGHTING PULLBOX. SERVICE PEDESTALS SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 331, 332.S2, 335.S2 AND 730.

GENERAL ELECTRICAL NOTES
 1. ALL UNDERGROUND CONDUIT SHALL BE TYPE RNC (RIGID NONMETALLIC CONDUIT), SCHEDULE 40 PVC AND SHALL BE INSTALLED PER USD 404.1419. ABOVE GRADE CONDUIT SHALL BE TYPE RMC (RIGID METALLIC CONDUIT). ALL CONDUIT WHICH WOULD OTHERWISE BE EMPTY SHALL INCLUDE A NYLON PULL STRING AND 1/8" CONDUCTOR FOR LOCATING PURPOSES.
 2. ALL CONDUCTORS SHALL BE STRANDED, 600-VOLT, TYPE THW INSULATED COPPER.
 3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS AND HARDWARE AS REQUIRED BY THE NATIONAL ELECTRICAL CODE, LATEST EDITION AND SHALL COMPLY WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY HAVING JURISDICTION.

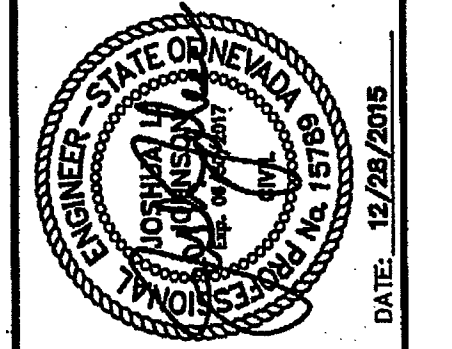
ELECTRICAL CONSTRUCTION NOTES
 EXISTING NV ENERGY TRANSFORMER
 PROPOSED NV ENERGY TRANSFORMER
 EXISTING SP4. REFER TO ELECTRICAL SERVICE NOTES.
 NOT USED
 PROPOSED SP1. REFER TO ELECTRICAL SERVICE NOTES & DETAIL 2 SHEET 36
 PROPOSED SP3. REFER TO ELECTRICAL SERVICE NOTES & DETAIL 2 SHEET 36
 PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET REFER TO DETAIL 1 SHEET 40
 EXISTING TRAFFIC SIGNAL CONTROLLER CABINET
 CONNECT TO EXISTING CONDUIT STUB
 STUB OUT AND CAP
 PROPOSED TYPE 2B SINGLE LUMINAIRE PER SSD E-1 (150W)
 PROPOSED TYPE 2C SINGLE LUMINAIRE PER SSD E-1 (100W)
 PROPOSED TYPE 2B TWIN LUMINAIRE PER SSD E-1 (150W)
 PROPOSED TYPE 2A MOD 1 LUMINAIRE WITH PROVISION FOR FUTURE TRAFFIC SIGNAL MAST ARM PER SSD E-1 (400W)
 EXISTING STREET LIGHT
 EXISTING NO. 3-1/2 PULLBOX
 EXISTING NO. 5 PULLBOX
 EXISTING NO. 7 PULLBOX
 EXISTING TYPE 200 PULLBOX
 PROPOSED NO. 3-1/2 PULLBOX PER USD 326
 PROPOSED NO. 5 PULLBOX PER USD 326
 PROPOSED NO. 7 PULLBOX PER USD 326
 PROPOSED P30 PULLBOX PER USD 761
 PROPOSED TYPE 200 PULLBOX PER USD 762
 FUTURE TYPE 2B SINGLE LUMINAIRE PER SSD E-1 (150W)
 FUTURE CONDUIT
 PROPOSED 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
 PROPOSED 1-1/4" CONDUIT ONLY [STREET LIGHTING]
 PROPOSED (5) 3" CONDUITS [INTERSECTION LUMINAIRES AND TRAFFIC SIGNAL] AND 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT] INSTALL 2#10, 1#10 GND IN EACH OF (4) 3" CONDUITS
 PROPOSED 2" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
 PROPOSED (2) 2" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
 PROPOSED 2" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES] AND 2" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
 PROPOSED 2" CONDUIT ONLY [FUTURE SCHOOL FLASHER]
 PROPOSED 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES]
 PROPOSED (2) 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES]
 PROPOSED 3" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
 PROPOSED (2) 3" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
 PROPOSED 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT W/2' RADIUS BENDS]
 EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
 EXISTING (2) 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
 EXISTING 1-1/4" CONDUIT ONLY [STREET LIGHTING]
 EXISTING 2" CONDUIT ONLY. ADD 2#4, 1#8 GND.
 EXISTING 2" CONDUIT ONLY [POWER TO TRAFFIC SIGNAL CONTROLLER] INSTALL 2#4, 1#8 GND IN EXISTING CONDUIT [SP5]
 EXISTING (4) 3" CONDUITS CONTAINING 2#10, 1#10 GND EACH [STREET LIGHTING] EXISTING (1) 3" EXISTING CONDUIT ONLY [FUTURE TRAFFIC SIGNAL] EXISTING (1) 4" CONDUIT ONLY [FUTURE TRAFFIC INTERCONNECT]
 EXISTING 4" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL INTERCONNECT]
 EXISTING TYPE 2A MOD 1 LUMINAIRE WITH PROVISION FOR FUTURE TRAFFIC SIGNAL MAST ARM PER SSD E-1 (400W)
 EXISTING 3" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES]
 EXISTING 3" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
 EXISTING 2" CONDUIT CONTAINING 2#10, 1#8 GND [INTERSECTION LUMINAIRES] AND 2" CONDUIT ONLY [FUTURE TRAFFIC SIGNAL]
 EXISTING 2" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING]
 PROPOSED (2) 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND ONLY CONDUIT FEEDING STREET LIGHT SHALL PASS THROUGH BASE. [STREET LIGHTING]
 EXISTING 1-1/4" CONDUIT ONLY. ADD 2#4, 1#8 GND [STREET LIGHTING]
 EXISTING 1-1/4" CONDUIT ONLY [STREET LIGHTING] ADD (2) 2#4, (2) 1#8 GND
 EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING] ADD 2#4, 1#8 GND
 EXISTING 1-1/4" CONDUIT ONLY [STREET LIGHTING] ADD (2) 2#4, (2) 1#8 GND
 EXISTING 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND [STREET LIGHTING] ADD 2#4, 1#8 GND
 CONNECT NEW 2#4, 1#8 GND TO EXISTING 2#4, 1#8 GND (CIRCUIT 4B) [STREET LIGHTING]



LEGEND:
 STREET LIGHTING CONDUIT
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 TRAFFIC SIGNAL CONDUIT
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 INTERCONNECT CONDUIT
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 SCHOOL FLASHER CONDUIT
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 SERVICE PEDESTAL DESIGNATION
 (N) SERVICE PEDESTAL DESIGNATION
 (NX) CIRCUIT DESIGNATION
 N = SERVICE PEDESTAL
 X = CIRCUIT
 STREET LIGHT
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 STREET LIGHT WITH TRAFFIC SIGNAL
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 #3-1/2 PULLBOX, MARKED "STREET LIGHTING", UNLESS OTHERWISE NOTED
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 #5 PULLBOX, MARKED "TRAFFIC SIGNAL", UNLESS OTHERWISE NOTED
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 #7 PULLBOX, MARKED "TRAFFIC SIGNAL", UNLESS OTHERWISE NOTED
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 SERVICE PEDESTAL
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 N.P.CO. TRANSFORMER
 --- PROPOSED
 --- EXISTING
 --- FUTURE
 TRAFFIC SIGNAL CONTROLLER
 --- PROPOSED
 --- EXISTING
 --- FUTURE

DATE: 11/28/15
 FOR ELECTRICAL COMPONENTS ONLY

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PROJECT NO.	DATE	REV	DATE	DESCRIPTION
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