ELECTRICAL NOTES

1. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, 30" MINIMUM BURIAL DEPTH. CONDITIONS WHICH REQUIRE SHALLOWER BURIAL DEPTHS SHALL BE APPROVED BY INSPECTING AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION. ABOVE GRADE CONDUIT AND CONDUIT RISERS SHALL BE RIGID METAL CONDUIT.
2. ALL CONDUCTOR SHALL BE STRANDED, 600V 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.

VERIFICATION

CIRCUIT NAME:	SP1(A)		SP1(B)		SP1(C)		SP3(A)		SP3(B)		SP4(A)		SP4(B)		SP5(A)		SP5(B)	
CIRCUIT TYPE:	STREET LIGHTING (EXISTING)		STREET LIGHTING (EXISTING)		INTERSECTION LIGHTING (EXISTING)		STREET LIGHTING (NEW)		STREET LIGHTING (NEW)		STREET LIGHTING (NEW)		STREET LIGHTING (NEW)		STREET LIGHTING (NEW)		STREET LIGHTING (NEW)	
VOLTAGE:	240		240		120		240		240		240		240		240		240	
CIRCUIT CAPACITY:	60		60		40		60		60		60		60		60		60	
MAXIMUM CONTINUOUS CURRENT DRAW IS 80% OF CIRCUIT CAPACITY:	48		48		32		48		48		48		48		48		48	
EXISTING CIRCUIT LOAD AMPS =	9.00		13.25		16.00		0.00		0.00		0.00		0.00		0.00		0.00	
	PROPOSED		PROPOSED		PROPOSED		PROPOSED		PROPOSED		PROPOSED		PROPOSED		PROPOSED		PROPOSED	
PROPOSED LOAD TO CIRCUIT:	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS	QTY.	AMPS
150 WATT SINGLE LUMINAIRES AT 240V = 0.75 AMPS	0	0.00	0	0.00	0	0.00	13	9.75	11	8.25	24	18.00	0	0.00	13	9.75	0	0.00
150 WATT TWIN LUMINAIRES AT 240V = 1.50 AMPS	0	0.00	7	10.50	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL PROPOSED LOAD AMPS =	0.00		10.50		0.00		9.75		8.25		18.00		0.00		9.75		0.00	
EXISTING PLUS PROPOSED LOAD AMPS =	9.00		23.75		16.00		9.75		8.25		18.00		0.00		9.75		0.00	
REMAINING AVAILABLE LOAD AMPS: MAXIMUM – EXISTING – PROPOSED =	39.00		24.25		16.00		38.25		39.75		30.00		48.00		38.25		48.00	

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION, AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION.

2. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC/ELECTRICAL FIELD OPERATIONS DIVISION AND THE CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623.L0.03 (E) OF THE SPECIFICATIONS.

3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.

4. ALL EMPTY CONDUIT SHALL HAVE PULL STRINGS INSTALLED PRIOR TO FINAL INSPECTION.

5. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARENCE OF EIGHTEEN INCHES (18") TO THE FACE OF STREET LIGHTING POLE ON ALL SIDES WHEN STREETLIGHT IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.

6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE ELECTRICAL SERVICES SECTION PRIOR TO ANY PREFINAL INSPECTION. THE AS-BUILT DRAWING NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.

7. SERVICE POINT SHALL BE COORDINATED WITH NEVADA POWER COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE PLANS.

8. IT SHALL BE ASSUMED THAT IN THE ABSENCE OF AN EXISTING, WORKABLE CIRCUIT TO ATTACH TO, ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.

9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED AT NO EXPENSE TO THE CITY OF LAS VEGAS.

10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.

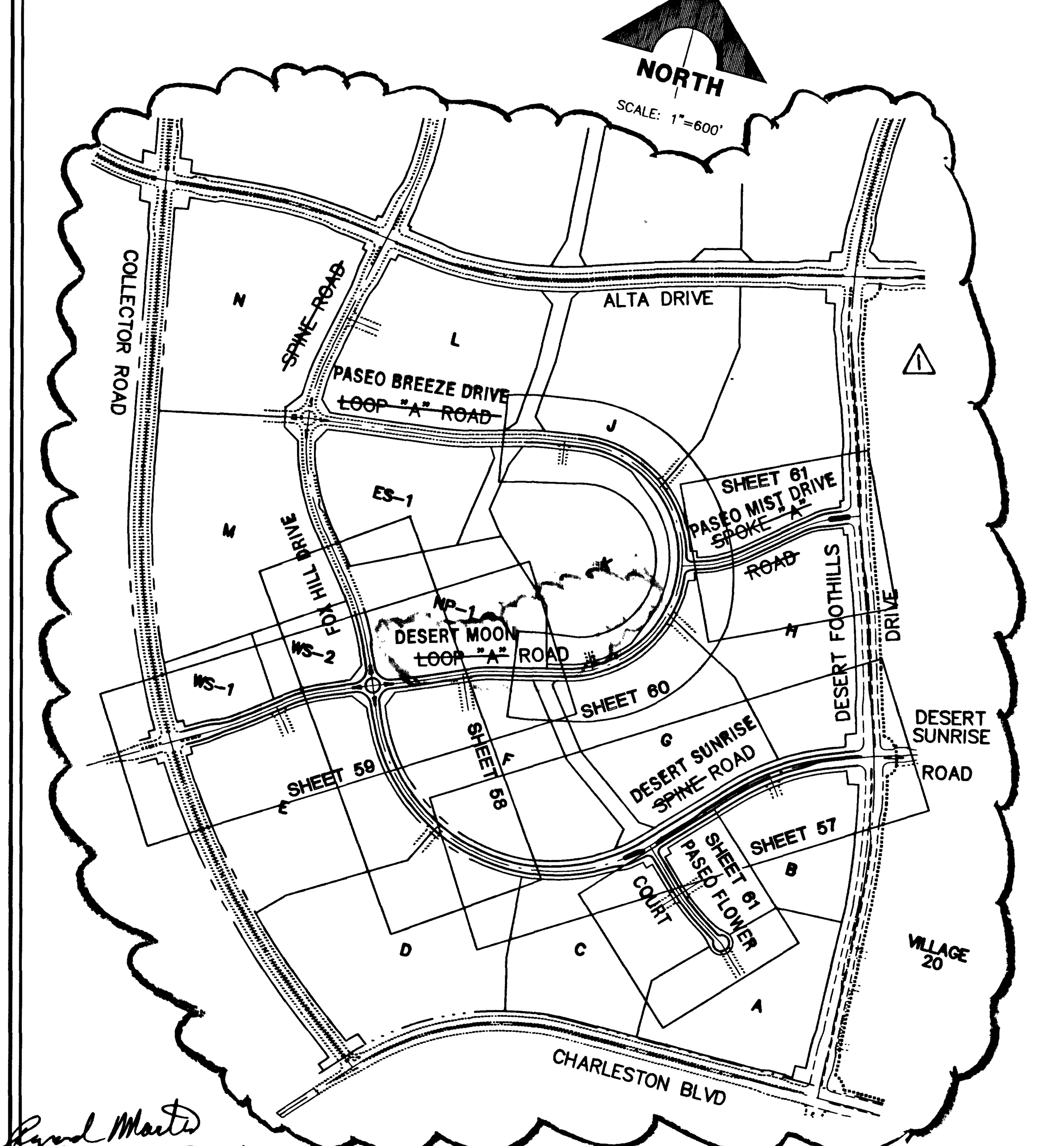
PROFESSIONAL ENGINEER – STATE OF NEVADA – RICKEY D. HUNSAKER – ELECTRICAL – No. 12812

Exp. 6-30-03

DATE: 9-10-02

FOR ELECTRICAL COMPONENTS ONLY

PROJECT LOCATION / SHEET INDEX MAP



44783 50374

STREET CLASSIFICATION

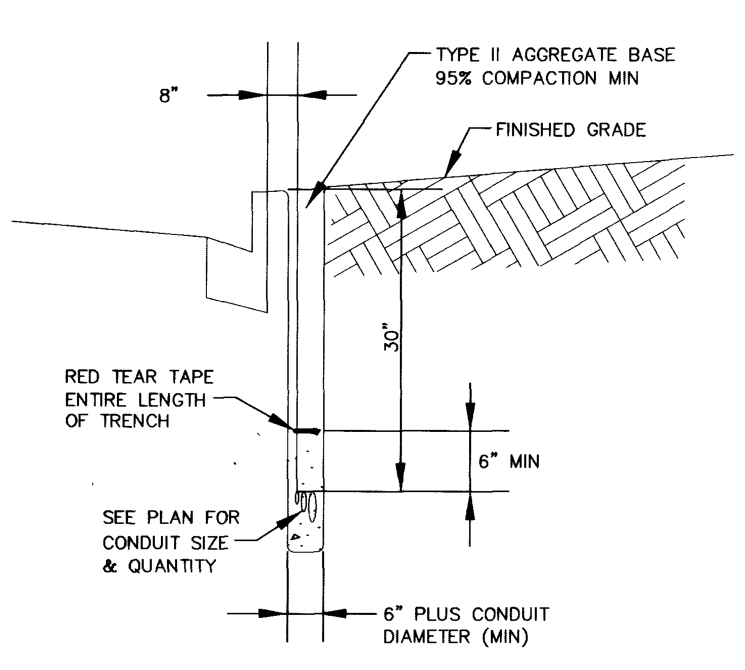
DESERT SUNRISE ROAD & FOX HILL DRIVE:	NEIGHBORHOOD COLLECTOR (LEVEL 1) WITH SHARED BIKE LANES
DESERT MOON ROAD & PASEO BREEZE DRIVE:	RESIDENTIAL COLLECTOR
PASEO MIST DRIVE:	NEIGHBORHOOD COLLECTOR (LEVEL 1)
PASEO FLOWER COURT:	RESIDENTIAL STREET

Avoid cutting underground utility lines. It's costly.

Call before you Dig.

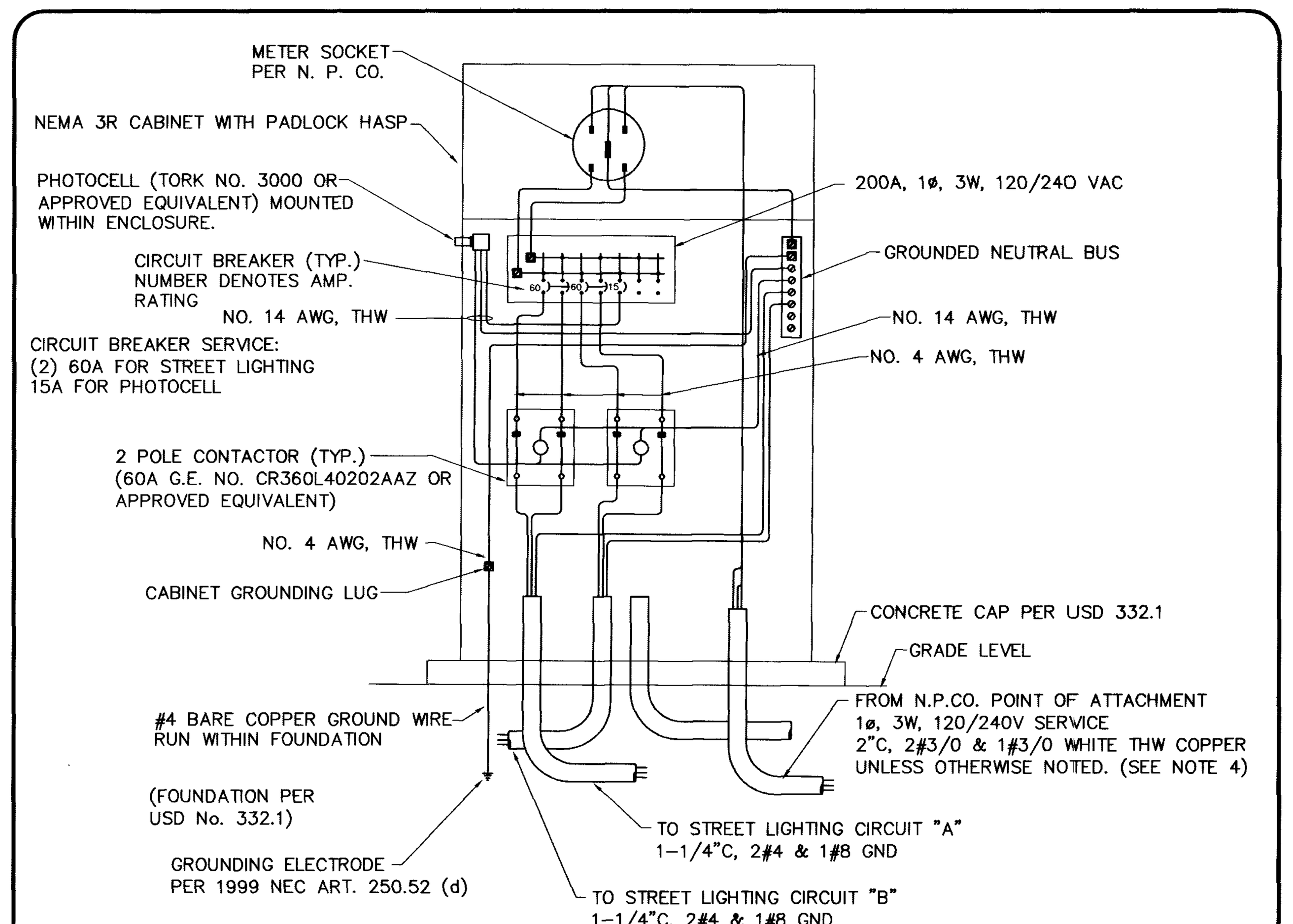
1-800-227-2600

UNDERGROUND SERVICE ALERT (USA)



CONDUIT LOCATION (2/56)

NOT TO SCALE

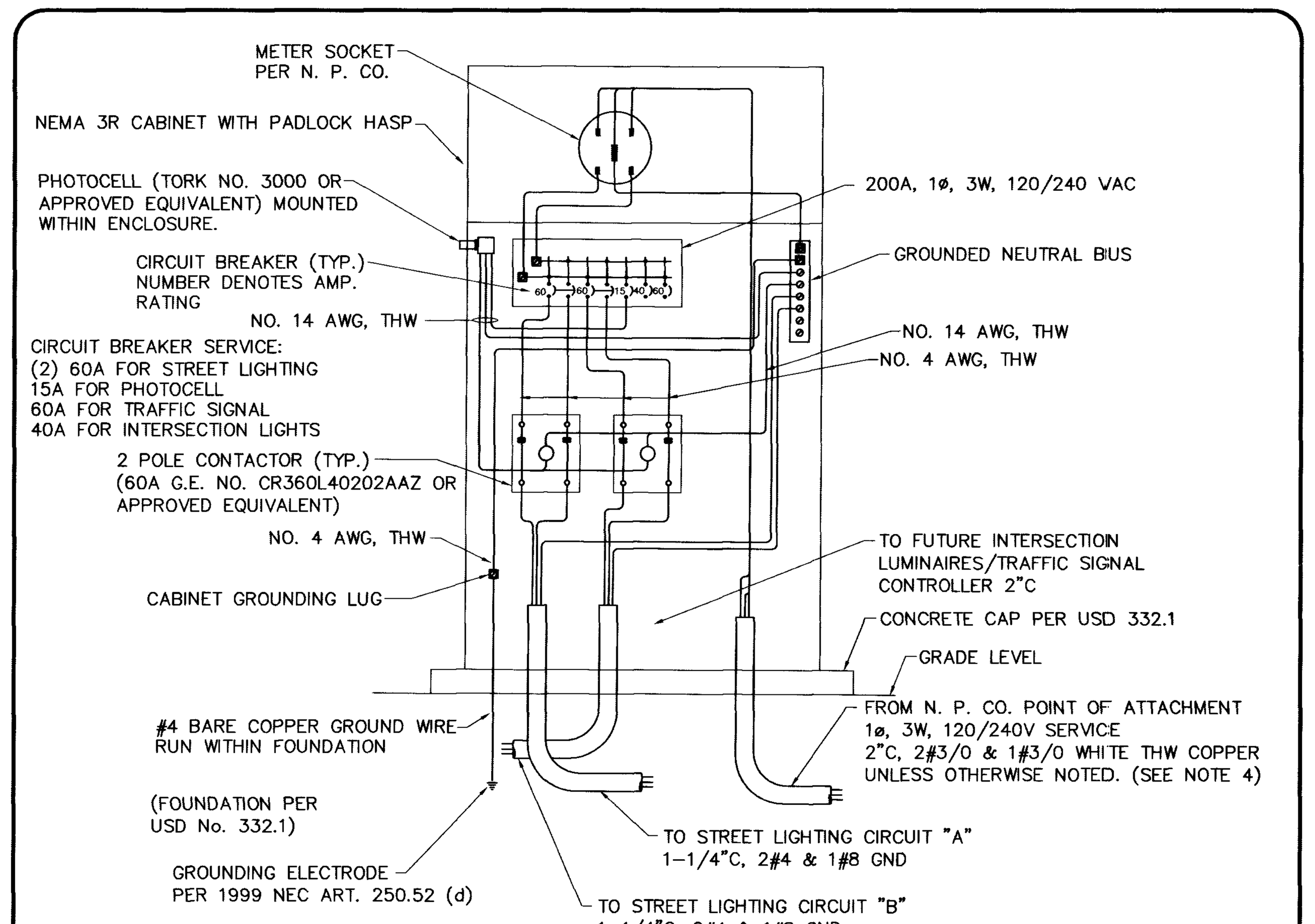


NOTES:

1. MANUFACTURER'S CATALOG NUMBERS ARE SHOWN TO ESTABLISH A DEGREE OF QUALITY AND PERFORMANCE, APPROVED AS EQUIVALENT ARE ACCEPTABLE.
2. ALL CONDUCTORS AND BUSSING TO BE COPPER.
3. INSTALL PER CLARK COUNTY AREA, UNIFORM STANDARD DRAWING NUMBERS 330, 331, 332.1, 335.1.
4. TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195' FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER.
5. ALL CONDUCTOR SHALL BE STRANDED, 600V THW INSULATED COPPER

200A PAD MOUNTED SERVICE POINT FOR STREET LIGHTING (3/56)

NOT TO SCALE



NOTES:

1. MANUFACTURER'S CATALOG NUMBERS ARE SHOWN TO ESTABLISH A DEGREE OF QUALITY AND PERFORMANCE, APPROVED AS EQUIVALENT ARE ACCEPTABLE.
2. ALL CONDUCTORS AND BUSSING TO BE COPPER.
3. INSTALL PER CLARK COUNTY AREA, UNIFORM STANDARD DRAWING NUMBER 330, 331, 332.1, 335.1.
4. TRANSFORMER TO SERVICE PEDESTAL DISTANCES GREATER THAN 195' FOR SPECIFIED CONDUCTORS MUST BE APPROVED BY ENGINEER.
5. ALL CONDUCTOR SHALL BE STRANDED, 600V THW INSULATED COPPER

200A PAD MOUNTED SERVICE POINT FOR TRAFFIC SIGNAL AND STREET LIGHTING (1/56)

NOT TO SCALE

LEGEND

- STREET LIGHT CONDUIT (1) 1-1/4"C, 2#4, 1#8 GND. THW. UNLESS OTHERWISE NOTED
- INSTALL 3" PVC CONDUIT FOR TRAFFIC SIGNAL INERCONNECT (W/1" INNERDUCT) AND PULLBOXES AS IDENTIFIED PER PLAN (500' MAX) WITH 2' RADIUS SWEEPS INTO PULLBOXES FOR FUTURE FIBER OPTIC.
- TRAFFIC SIGNAL CONDUIT (SEE ELECTRICAL CONSTRUCTION NOTES)
- SCHOOL FLASHER CONDUIT (1) 2"C, 1#8 GND, THW.
- TRAFFIC SIGNAL POLE WITH STREET LIGHT
- STREET LIGHT
- FUTURE STREET LIGHT
- METERED SERVICE PEDESTAL, PHOTOCELL WILL BE MOUNTED WITHIN ENCLOSURE,
- (N) SERVICE PEDESTAL AND N.P.CO. TRANSFORMER
- (NX) CIRCUIT DESIGNATION: (CONTAINED WITHIN BOUNDRY) N = SERVICE PEDESTAL X = CIRCUIT
- #3-1/2 PULLBOX, MARKED "STREET LIGHTING" UNLESS OTHERWISE NOTED.
- #5 PULLBOX, MARKED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED.
- #7 PULLBOX, MARKED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED.
- TRAFFIC SIGNAL CONTROLLER
- NEVADA POWER TRANSFORMER AND METERED SERVICE PEDESTAL, PHOTOCELL WILL BE MOUNTED WITHIN ENCLOSURE, AIM NORTH AWAY FROM LIGHTING SOURCES. (UNLESS OTHERWISE NOTED)

ELECTRICAL CONSTRUCTION NOTES

1/E PROPOSED NEVADA POWER COMPANY TRANSFORMER.

2/E EXISTING SP1: 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V, PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM N.P.CO. POINT 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 PEDESTAL SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER.
THE FOLLOWING SHALL BE INCULDED IN THE 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,
(1) 40 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR INTERSECTION LUMINAIRES AND
(1) 60 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR TRAFFIC SIGNAL CONTROLLER.
CONTRACTOR TO PROVIDE (2) 1-1/4" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULLBOX AND (1) 2" CONDUIT TO PULLBOX AS SHOWN FOR TRAFFIC SIGNAL CONTROLLER AND INTERSECTION LUMINAIRE BRANCH CIRCUITS. SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.

3/E SP5: NEW 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V, PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM N.P.CO. POINT 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 PEDESTAL SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER.
THE FOLLOWING SHALL BE INCULDED IN THE 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,
(1) 40 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR FUT INTERSECTION LUMINAIRES AND
(1) 60 AMP, 120V, SINGLE POLE CIRCUIT BREAKER FOR FUT TRAFFIC SIGNAL CONTROLLER.
CONTRACTOR TO PROVIDE (2) 1-1/4" CONDUITS FROM SERVICE PEDESTAL TO FIRST STREETLIGHTING PULLBOX AND (1) 2" CONDUIT TO PULLBOX AS SHOWN FOR TRAFFIC SIGNAL CONTROLLER AND INTERSECTION LUMINAIRE BRANCH CIRCUITS. SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.

4/E SP3, SP4: NEW 200 AMP, SINGLE PHASE, 3 WIRE, 120/240V, PAD MOUNTED SERVICE PEDESTAL. FEEDER FROM N.P.CO. POINT 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 PEDESTAL SHALL BE LOCATED A MINIMUM OF 30 FEET FROM THE TRANSFORMER.
THE FOLLOWING SHALL BE INCULDED IN THE 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,
SERVICE PEDESTAL SHALL COMPLY WITH CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS 330, 331, 332.1 AND 335.1.

5/E TYPE 2B SINGLE LUMINAIRE PER SUMMERLIN IMPROVEMENT STANDARDS.

6/E TYPE 2B TWIN LUMINAIRE PER SUMMERLIN IMPROVEMENT STANDARDS.

7/E TYPE 2A MOD 1 SINGLE LUMINAIRE PER SUMMERLIN IMPROVEMENTS STANDARDS.

8/E (2) 1-1/4" CONDUIT, EACH CONTAINING 2#4, 1#8 GND.

9/E (1) 1-1/4" CONDUIT CONTAINING 2#4, 1#8 GND.

10/E (1) 1-1/4" CONDUIT CONTAINING NYLON PULLSTRING AND 1#8 FOR LOCATING PURPOSES.

11/E (1) 2" CONDUIT CONTAINING NYLON PULLSTRING AND 1#8 FOR LOCATING PURPOSES.

12/E STUB AND CAP 5'± BEYOND EDGE OF CONSTRUCTION.

13/E REMOVE CAP AND CONNECT TO EXISTING CONDUIT STUB.

14/E PROVIDE 2#4, 1#8 GND FROM EXISTING PULLBOX TO PROPOSED STREETLIGHT POLE.

15/E (4) 3" CONDUITS (INTERSECTION LUMINAIRES), (1) 3" CONDUIT CONTAINING NYLON PULLSTRING AND 1#8 FOR LOCATING PURPOSES (FUTURE TRAFFIC SIGNAL) AND (1) 4" CONDUIT W/ 2' RADUIS SWEEPS INTO PULLBOXES FOR FUTURE FIBER OPTIC.(FUTURE TRAFFIC SIGNAL INTERCONNECT).

PROFESSIONAL ENGINEER – STATE OF NEVADA – BERT A. HUGHES – CIVIL – No. 10259 – Exp. 6-30-03

DATE: 9/10/02

REV	DATE	DESCRIPTION	DATE	AGEN. APP.	DATE	C.O.W. APP.
1	12/12	REVISE STREET NAMES.	3/19/03		3/10/03	

DESIGN: JTB
DRAWN: ALD
CHECK: BAH/RDH
ISSUE DATE:
ISSUE EDITOR:
PLOT DATE: 06-20-02
PLOT TIME: 14:33:59

mulep

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Engineering/Architecture
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
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SUMMERLIN

VILLAGE 23A UNIT 1 IMPROVEMENTS

STREET LIGHT, MASTER CONDUIT, AND ELECTRICAL PLAN I

SHEET 56

107-V3574-1

JOB NO. 62023.221