


**AS-BUILT  
BUILT PER PLAN**



Jason Dineen  
Spectrum Services, Inc

DATE  
01/15/18

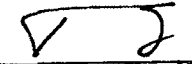


**33TM0039SMC**  
**VG0016BA\_11LAB**  
**405 SHADOW LN COURT**  
**LAS VEGAS, NV 89106**  
**APN: 139-33-299-003**

ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

**CITY OF LAS VEGAS**  
 APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSION OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL:  DATE: 11 30 17  
 L17-01048 107V7080-CAL



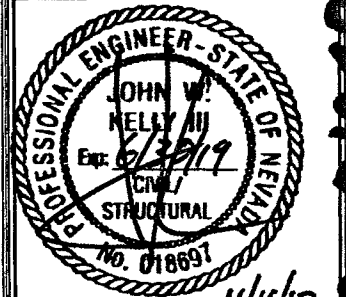
VG0016BA\_11LAB  
 33TM0039SMC  
 405 SHADOW LN COURT  
 LAS VEGAS, NV 89106

PROJECT NO: 113272.002.01  
 CHECKED BY: MDW

**ISSUED FOR:**

REV	DATE	DRWN	DESCRIPTION
A	6/7/17	DMD	PRELIMINARY REVIEW
B	9/8/17	CLM	PRELIMINARY REVIEW
D	9/12/17	CLM	CONSTRUCTION
1	10/18/17	BDH	CONSTRUCTION
2	11/16/17	EAM	CONSTRUCTION

B&T ENGINEERING, INC.  
 12685  
 Expires 12/31/17



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER: <b>T-1</b>	REVISION: <b>2</b>
SHEET 1 OF 11	

**GENERAL NOTES**

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OF EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

**SITE INFORMATION**

PROPERTY OWNER: PUBLIC RIGHT-OF-WAY  
 APPLICANT ADDRESS: BLUESTREAM PROFESSIONAL SERVICES, LLC  
 33015 HIGHWAY 60 WEST FAIRBAULT, MN 55021 (507) 334-2268  
 LAT/LONG TYPE: NAD 83  
 LATITUDE: 36.16658129'  
 LONGITUDE: -115.1655525'  
 GROUND ELEVATION: ± 2053' AMSL  
 JURISDICTION: CITY OF LAS VEGAS  
 APN: 139-33-299-003  
 CURRENT ZONING: N-1  
 EXISTING LEASE AREA: N/A  
 EXISTING OCCUPANCY: U  
 PROJECT OCCUPANCY: U  
 EQUIPMENT LOCATION: OUTDOOR  
 ANTENNA LOCATION: EXISTING STREETLIGHT

**CONSULTANT TEAM**

ARCHITECT/ENGINEER: B+T GROUP  
 1717 S. BOULDER AVENUE TULSA, OK 74119  
 CONTACT: VICTOR MCAULISTER- PROJECT MNGR  
 TEL: (918) 587-4630 FAX: (918) 295-0265

CABLE OWNER/LANDLORD: COX NEVADA TELCOM, LLC  
 1700 VEGAS DRIVE LAS VEGAS, NV 89106  
 CONTACT: DANIELLE ETZBACH (404) 269-3997

OWNER REP: COX COMMUNICATIONS  
 1700 VEGAS DRIVE LAS VEGAS, NV 89106  
 CONTACT: ANTHONY EBERSOLE (702) 545-1643

DEVELOPER: COX NEVADA TELCOM, LLC  
 ATTN: COX BUSINESS

POWER: NV ENERGY (702) 633-8400

FIBER: COX (702) 936-8898

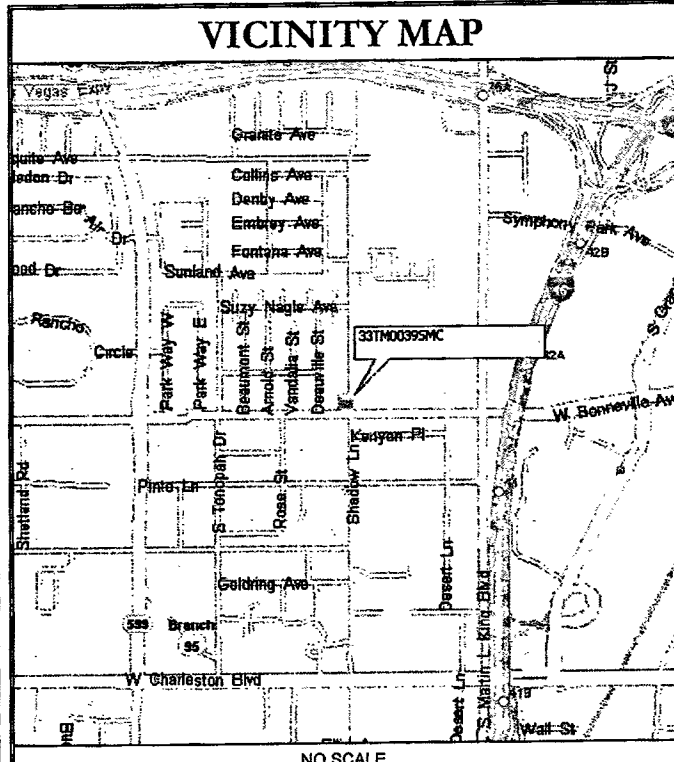
TELEPHONE: CENTURYLINK (702) 361-3332

**CODES**

2012 INTERNATIONAL BUILDING CODE W/ NV STATE AMENDMENTS  
 2011 NATIONAL ELECTRICAL CODE W/ NV STATE AMENDMENTS

**DO NOT SCALE DRAWINGS**

CONTRACTORS SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



**DRIVING DIRECTIONS**

DEPART 1700 VEGAS DR. TURN RIGHT ONTO MARTIN L KING BLVD. TURN RIGHT ONTO ALTA DR. TURN RIGHT ONTO SHADOW LN AND ARRIVE AT 33TM0039SMC.

**APPROVALS**

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONSTRUCTION MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 RF ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SITE ACQUISITION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 LANDLORD: \_\_\_\_\_ DATE: \_\_\_\_\_

**PROJECT DESCRIPTION**


END USER PROPOSES TO INSTALL EQUIPMENT ON AN EXISTING STREETLIGHT WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL PROPOSED SMALL CELL EQUIPMENT ONTO EXISTING STREETLIGHT

**DRAWING INDEX**

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
LS-1	SITE SURVEY
A-1	SITE PLAN & EXHIBIT PHOTO
A-2	POLE ELEVATIONS & PLAN VIEWS
A-3	EQUIPMENT DETAILS
E-1	ELECTRICAL NOTES
E-2	ELECTRICAL ONE-LINE DIAGRAM
E-3	POWER PANEL DETAILS
E-4	POWER PEDESTAL DETAILS
E-5	SYSTEM GROUNDING PLANS
GN-1	GENERAL NOTES

CALL NEVADA ONE CALL  
 (800) 227-2600  
 CALL 3 WORKING DAYS BEFORE YOU DIG!



001: 13272.002.01\_33TM0039SMC\_VG0016BA\_11LAB.dwg - Sheet T-1 - User: vmanager - Nov 17, 2017 - 1:55pm

33TM0039SMC

33TM0039SMC

**NOTES**

1. A TITLE REPORT WAS NOT PROVIDED AT THE TIME OF THE SURVEY.
2. THE BOUNDARY AND RIGHT-OF-WAY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OR A.L.T.A./N.S.P.S. TITLE SURVEY OF THE PROPERTY AND IS NOT INTENDED TO VERIFY OWNERSHIP. ANY CORNER OR CONTROL MONUMENTS SHOWN HEREON ARE FOR THE PURPOSE OF CONTROLLING RECORD BOUNDARY OR RIGHT-OF-WAY INFORMATION. THE SURVEYOR HAS NOT MADE CORNER DETERMINATIONS ON ANY SUCH MONUMENTS.
3. SURVEYOR DOES NOT GUARANTEE THE LOCATION, EXISTENCE, SIZE OR DEPTH OF ANY PUBLIC OR PRIVATE UTILITY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON MARKINGS PROVIDED BY THE UTILITY PROVIDERS OR FROM THE CITY OF LAS VEGAS GIS MAPS AND IS APPROXIMATE IN LOCATION. ADDITIONAL UTILITY FACILITIES MAY BE PRESENT IN THE PROJECT AREA. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION, REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**CENTER OF GEODETIC COORDINATES**

EXISTING STREET LIGHT POLE LOCATION  
 LATITUDE: 35° 09' 59.884" NORTH (NAD83)  
 LONGITUDE: 115° 09' 53.927" WEST (NAD83)  
 ELEVATION @ GRADE = 2053.2' (NAVD88)

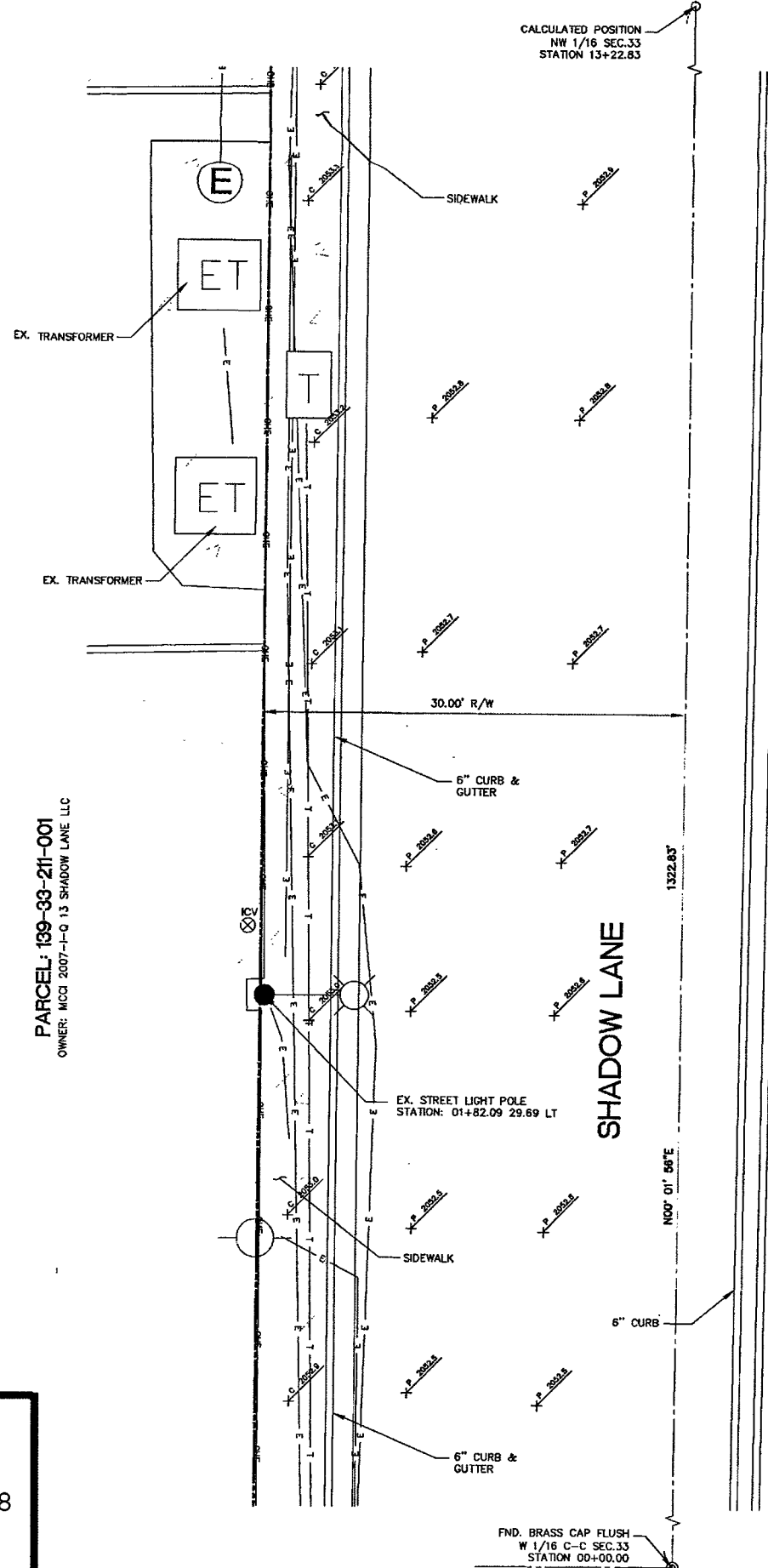
**SITE BENCHMARK**

BRASS CAP FLUSH AT THE W 1/16 C-C OF SECTION 33.  
 ELEVATION=2052.43' (NAVD-88)

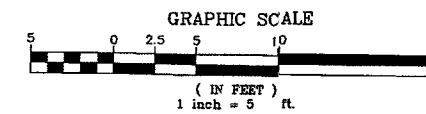
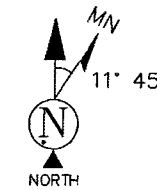
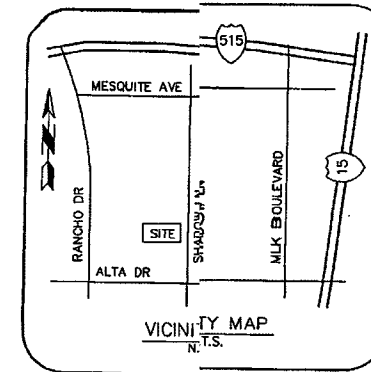
**BASIS OF BEARING**

THE MONUMENT LINE OF SHADOW LANE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM NEVADA STATE PLANE ZONE EAST, DETERMINED BY GPS OBSERVATIONS.

BEARING=NORTH 00°01'56" EAST

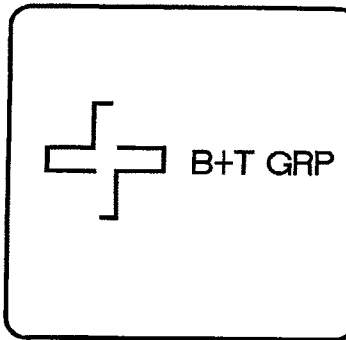


CALCULATED POSITION  
 NW 1/16 SEC.33  
 STATION 13+22.83



**LEGEND**

- |   |                             |           |                                  |
|---|-----------------------------|-----------|----------------------------------|
| ▲ | FOUND NAIL                  | —         | SIGN                             |
| ● | FOUND BRASS CAP FLUSH       | - - -     | BOLLARD                          |
| ○ | FOUND ALUMINUM CAP FLUSH    | - - - -   | BREAKLINE                        |
| ⊙ | CALCULATED POSITION         | - - - - - | POSITION OF GEODETIC COORDINATES |
| ⊕ | SEWER MANHOLE               | - - - - - | PARKING METER                    |
| ⊖ | SEWER CLEANOUT              | - - - - - | FOUND                            |
| ⊗ | TELEPHONE MANHOLE           | - - - - - | EXISTING                         |
| ⊘ | TELEPHONE VAULT             | - - - - - | NATURAL GRADE                    |
| ⊙ | TELEPHONE PEDESTAL          | - - - - - | PAVEMENT GRADE                   |
| ⊚ | TELEVISION PEDESTAL         | - - - - - | CONCRETE GRADE                   |
| ⊛ | WATER VALVE                 | - - - - - | CONCRETE MASONRY UNIT            |
| ⊜ | FIRE HYDRANT                | - - - - - | CHAIN LINK FENCE                 |
| ⊝ | WATER METER                 | - - - - - | R/W                              |
| ⊞ | WATER MANHOLE               | - - - - - | RIGHT-OF-WAY                     |
| ⊟ | IRRIGATION CONTROL VALVE    | - - - - - | RIGHT-OF-WAY LINE                |
| ⊠ | STORM MANHOLE               | - - - - - | ADJOINING BOUNDARY LINE          |
| ⊡ | CATCH BASIN                 | - - - - - | EASEMENT LINE                    |
| ⊢ | TRAFFIC SIGNAL              | - - - - - | CENTERLINE                       |
| ⊣ | TRAFFIC SIGNAL WITH MAST    | - - - - - | CHAIN LINK FENCE                 |
| ⊤ | TRAFFIC SIGNAL JUNCTION BOX | - - - - - | IRON FENCE                       |
| ⊥ | ELECTRIC MANHOLE            | - - - - - | U/G STORM SEWER LINE             |
| ⊦ | ELECTRIC JUNCTION BOX       | - - - - - | U/G SANITARY SEWER LINE          |
| ⊧ | POWER POLE                  | - - - - - | O/H ELECTRIC LINE                |
| ⊨ | DOWN GUY                    | - - - - - | U/G ELECTRIC LINE                |
| ⊩ | ELECTRIC TRANSFORMER        | - - - - - | U/G GAS LINE                     |
| ⊪ | LIGHT POST                  | - - - - - | U/G COMMUNICATIONS LINE          |
| ⊫ | STREET LIGHT W/ MAST ARM    | - - - - - | U/G WATER LINE                   |
| ⊬ | PALM TREE                   | - - - - - | PAVED AREA                       |
| ⊭ | TREE (TYP)                  | - - - - - | BRICK AREA                       |
| ⊮ |                             | - - - - - | CONCRETE AREA                    |



SITE NAME:  
**33TM0039SMC**

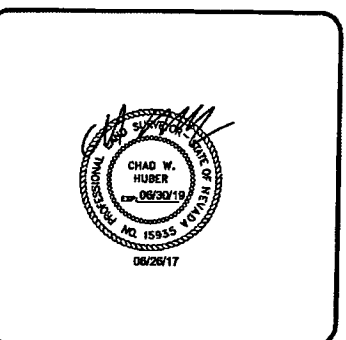
SITE ADDRESS:  
 400.25 SHADOW LANE  
 LAS VEGAS, NV 89106

**SUBMITTALS**

NO.	BY	DATE	SUBMITTAL
1	MJG	05/12/17	SITE SURVEY

**TERRAMARK**  
 LAND SURVEYING

24654 N. LAKE PLEASANT PKWY #103-163  
 PEORIA, AZ 85383  
 P. 480-440-1748  
 F. 623-777-1782  
 www.terramarksurveying.com



**SITE SURVEY**

JOB NO: 1502005-39	FIELD BY: MJG	DRAWN BY: MJG
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SHEET NO.:  
**2 OF 9**

SHEET NAME:  
**LS-1**

**AS-BUILT**  
**BUILT PER PLAN**

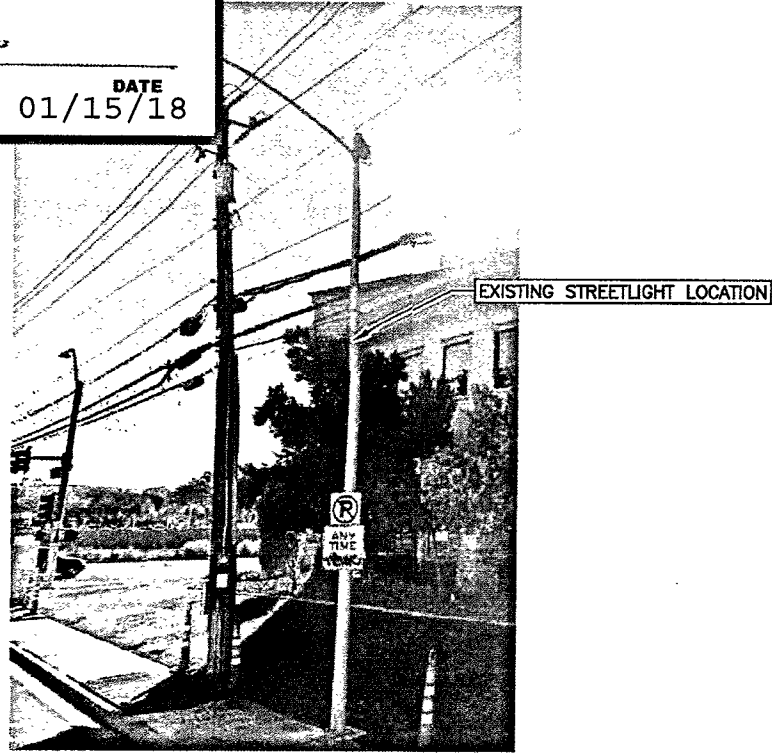
*Jason Dineen* 01/15/18  
 DATE

Jason Dineen  
 Spectrum Services, Inc

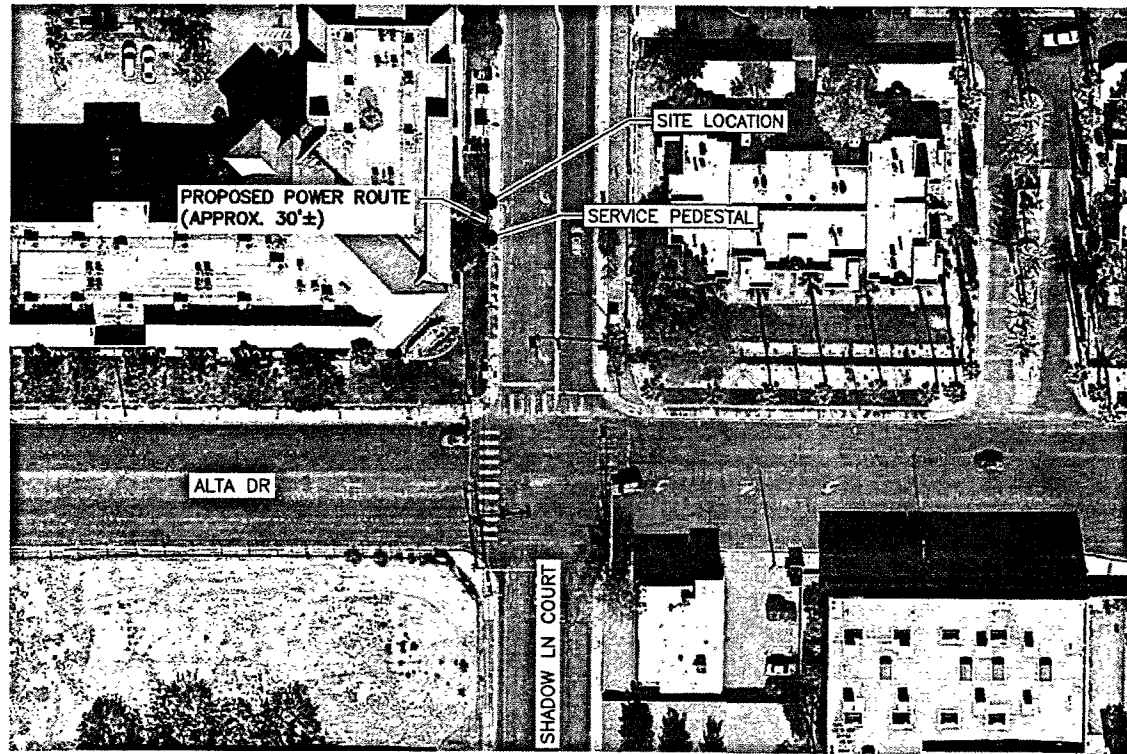
**AS-BUILT  
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Jason Dineen  
Spectrum Services, Inc

DATE  
01/15/18



1 PHOTO ELEVATION  
SCALE: N.T.S.

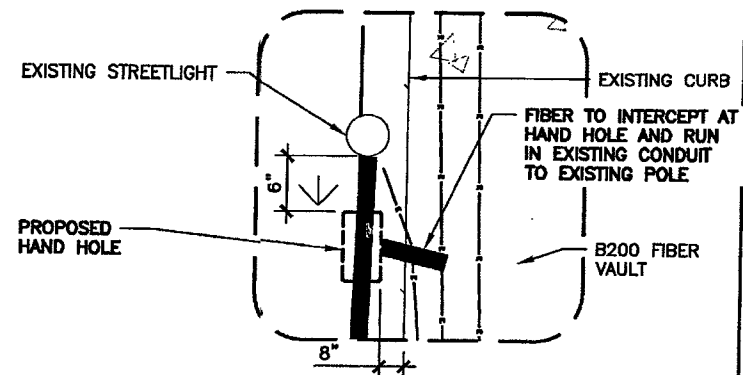


2 AERIAL SITE LOCATION  
SCALE: N.T.S.

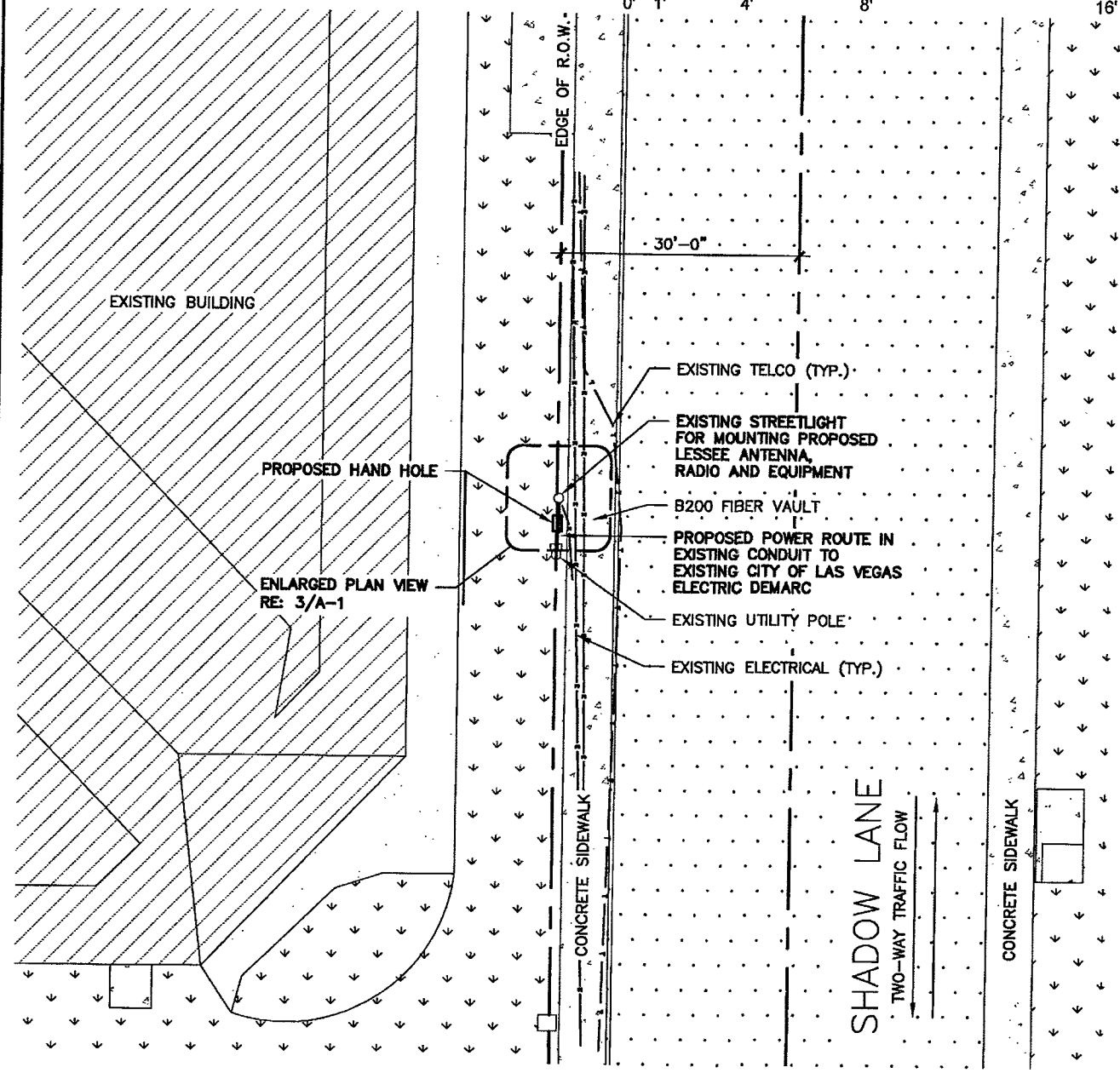
NOTE:  
THIS SITE PLAN WAS GENERATED WITH THE USE OF A SURVEY. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

NOTE:  
THE EXISTING IMPROVEMENTS SHOWN HEREIN ARE BASED ON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS PERFORMED ON APRIL 15, 2017

LEGEND:  
ROAD/EDGE OF PAVEMENT  
CENTERLINE OF R.O.W.  
RIGHT OF WAY  
PROPERTY LINE



3 HAND HOLE PLACEMENT  
SCALE: 0' 1' 4' 8' 16'



4 ENLARGED SITE PLAN  
SCALE: 0' 10' 20' 30' 40'



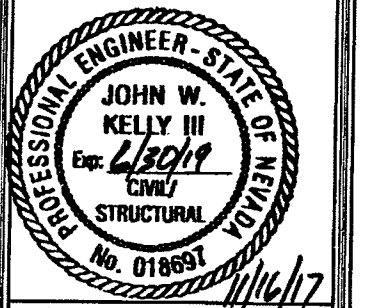
VG0016BA\_11LAB  
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1	10/18/17	BDH	CONSTRUCTION
2	11/16/17	EAM	CONSTRUCTION

B&T ENGINEERING, INC.  
12685  
Expires 12/31/17



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SHEET NUMBER: A-1  
REVISION: 2  
SHEET 3 OF 11

C:\1\3272\002.01\_33TM0039SMC\_V00398B.ctb.dwg - Shp:LA-1 - 11/16/17 - 1:43pm

**NOTE:**  
 NEW EQUIPMENT SHOWN ON THIS PLAN HAS BEEN EVALUATED TO VERIFY THE POLE OR STRUCTURE HAS THE CAPACITY TO ADEQUATELY SUPPORT THE EQUIPMENT. PRIOR TO ANY INSTALLATION, CONTRACTOR SHALL REFER TO STRUCTURAL ANALYSIS FOR APPROVAL OF ADDITIONAL NEW APPURTENANCES.

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 BUILT PER PLAN**

*Jason Dineen*

Jason Dineen  
 Spectrum Services, Inc

DATE  
 01/15/18



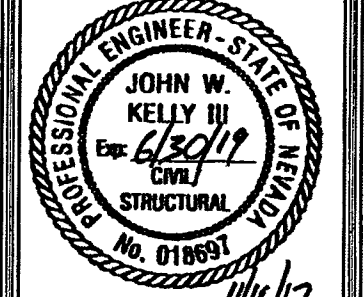
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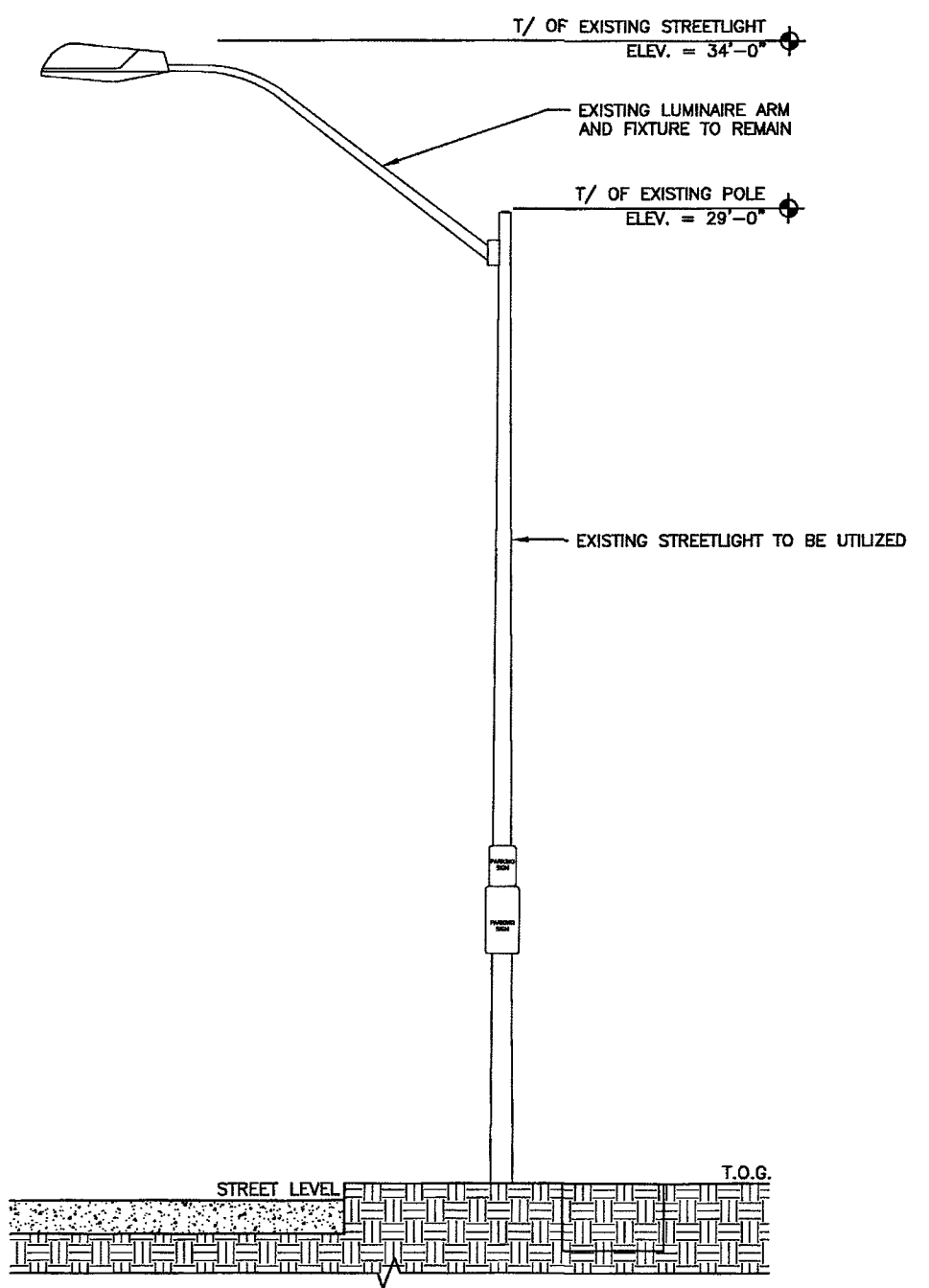
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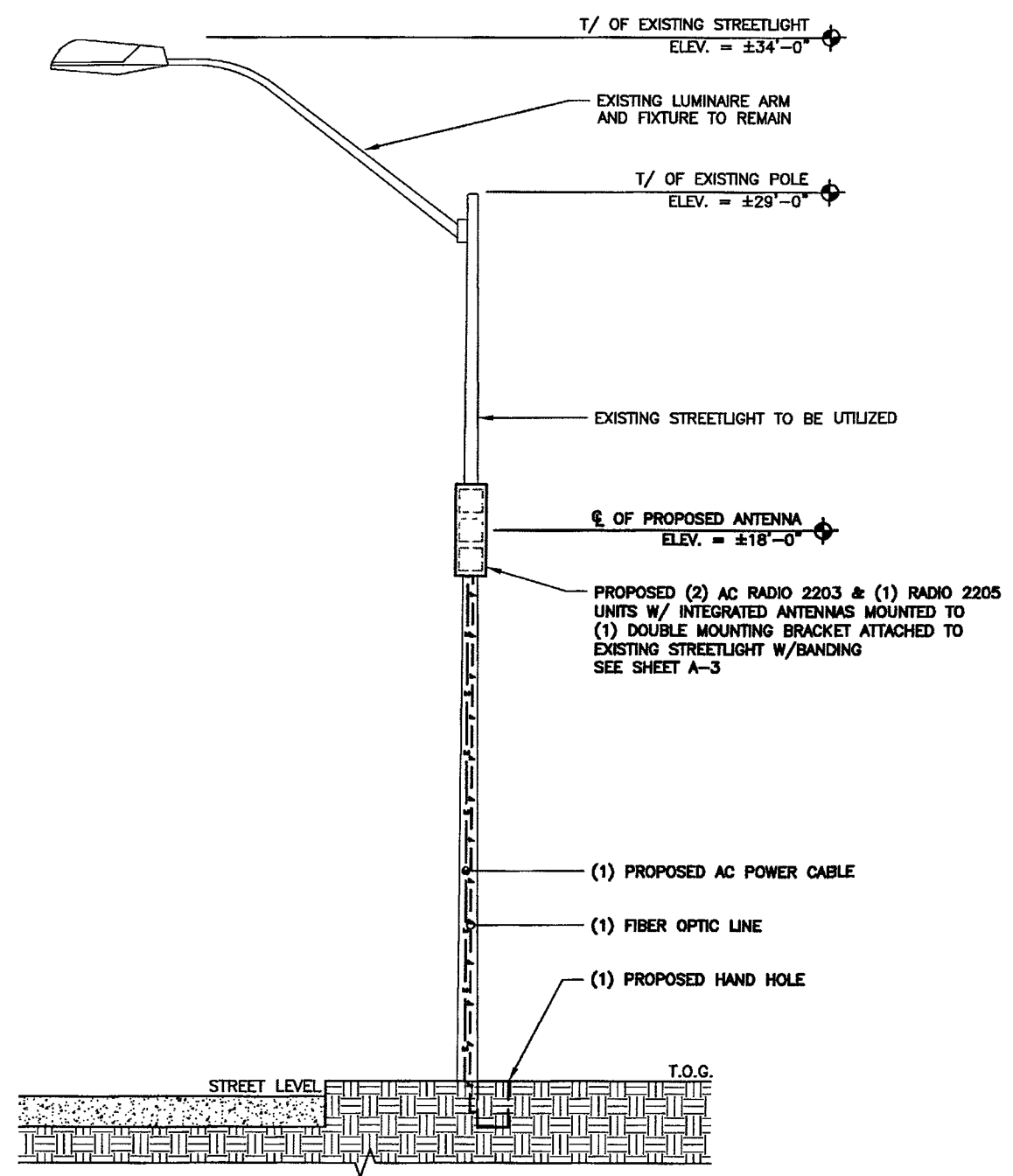


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SHEET NUMBER: A-2  
 REVISION: 2  
 SHEET 4 OF 11



**1** EXISTING POLE ELEVATION  
 SCALE: 0' 1' 4' 8' 16'



**2** FINAL POLE ELEVATION  
 SCALE: 0' 1' 4' 8' 16'

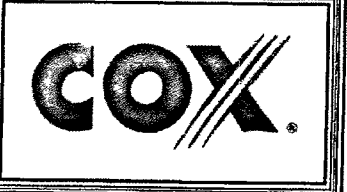
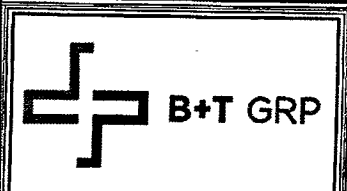
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**AS-BUILT  
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*Jason Dineen*

Jason Dineen  
Spectrum Services, Inc

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01/15/18



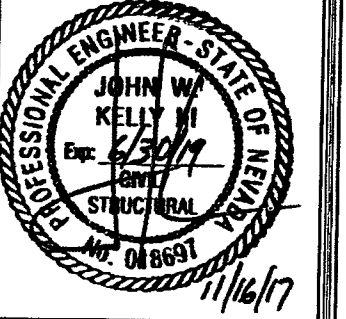
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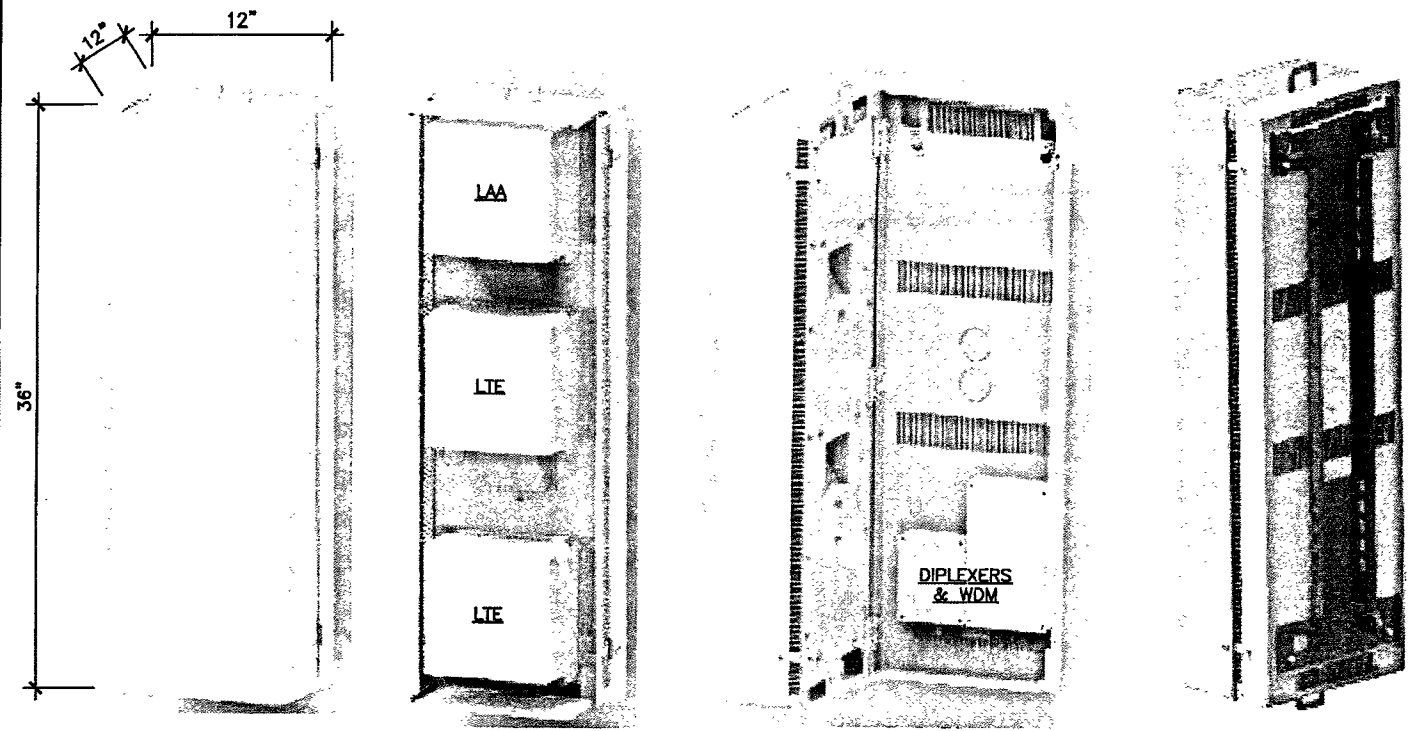
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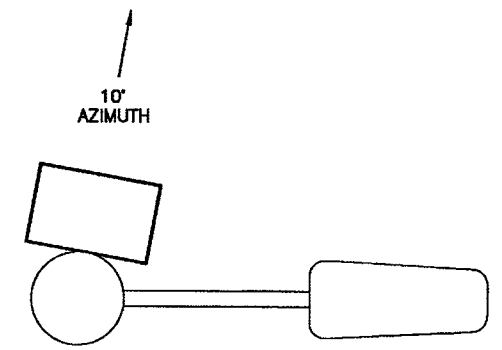
SHEET NUMBER: A-3  
REVISION: 2  
SHEET 5 OF 11



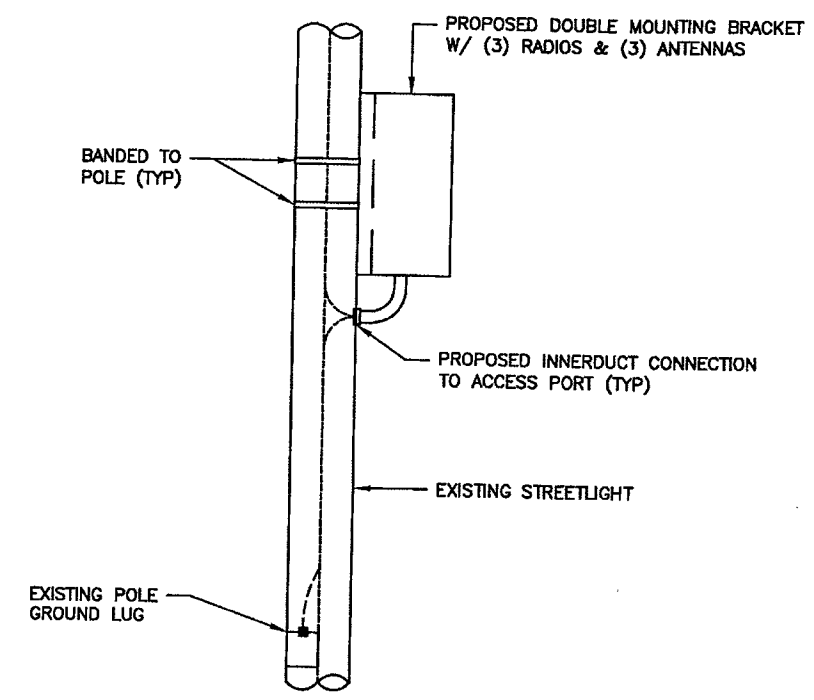
1 ANTENNA & RADIO MOUNT DETAIL  
SCALE: N.T.S.

- Standard 3 radio (small cells) site solution
- Tech/Band support : LTE (B66 & B2) & LAA (B46)
- RRH Configuration (3 radios) : 2 x 2203 radio + 1x 2205 radio
- 2X2 MIMO support for LTE & LAA
- Integrated or External antenna option
  - Diplexers for external antenna for LTE
  - LAA radio connects directly to external antenna ports (no diplexing)
  - RF Transparent cover for integrated Panel antenna configuration
  - Integrated Omni antenna option is NOT available
- Passive Wave Division Multiplexing (WDM) to leverage single pair of dark fiber
- Form factor and weight: approx. 3cu ft (LxWxD : 36x12x12 in), approx. 90lbs
- Passively Cooled. No external fans
- No Power distribution unit inside the shroud
- Light pole or Utility pole mounting brackets

2 ERICSSON SMALL CELL SITE SOLUTION - 3 UNIT "FACE OUT"  
SCALE: N.T.S.



3 ANTENNA PLAN VIEW  
SCALE: N.T.S.



4 EQUIPMENT PLACEMENT DETAIL  
SCALE: N.T.S.

60113272.DWG\_01\_33TM0039SMC\_VG0016BA\_11LAB\_CD-3 - User: emcrgm - Rev. 17, 2017 - 1:45pm



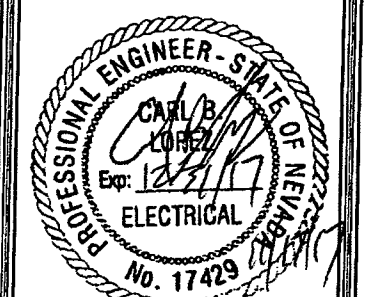


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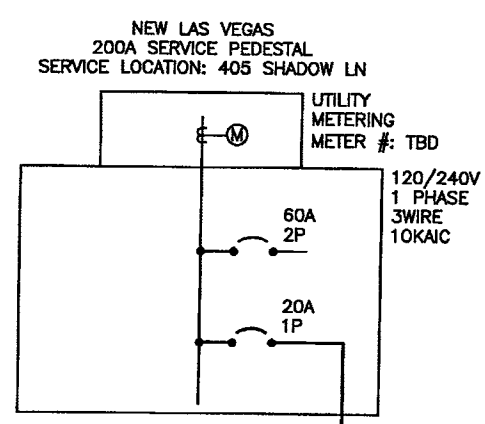


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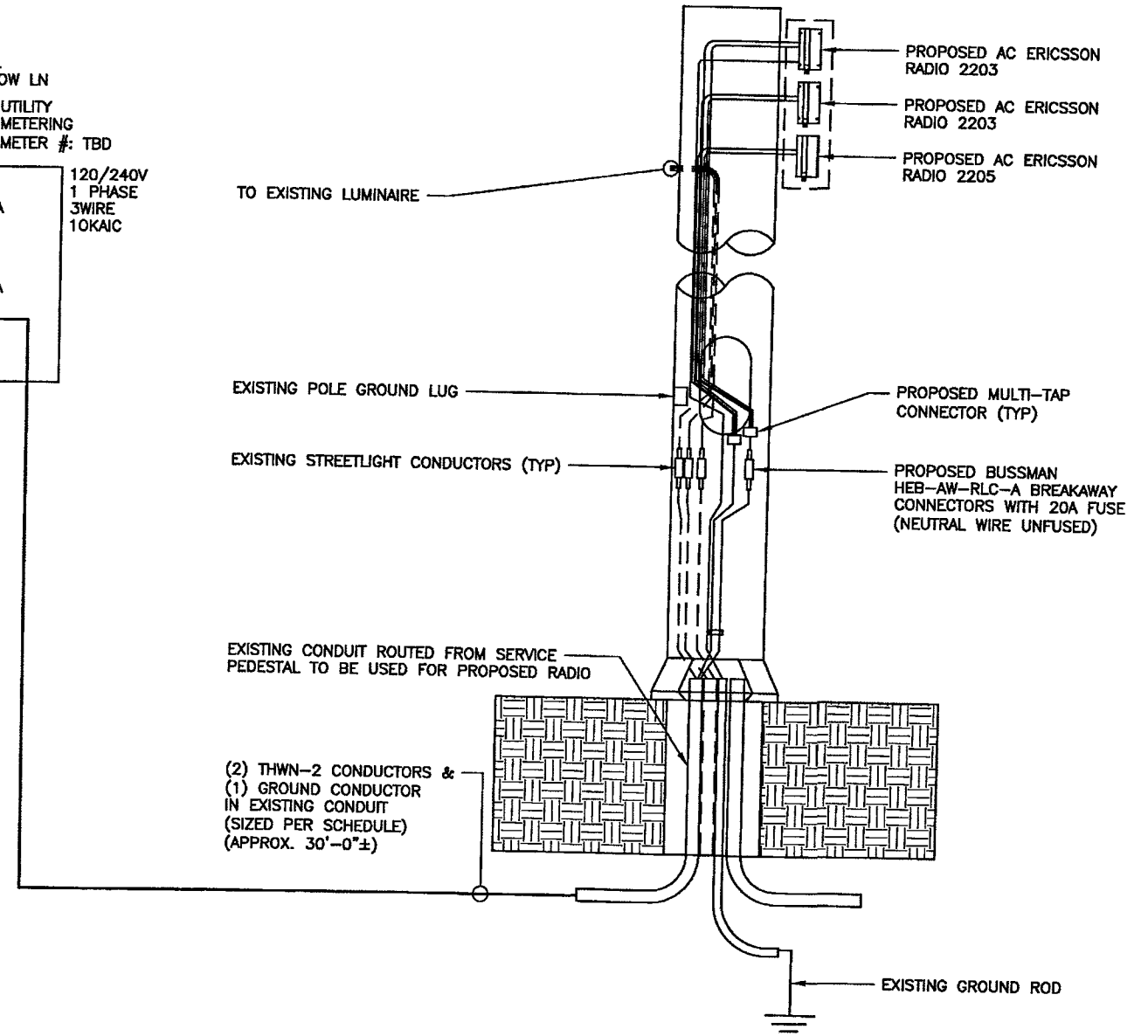
SHEET NUMBER: E-2  
 SHEET 7 OF 11  
 REVISION: 2

- NOTES:**
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
  - ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER THWN-2, THW-2, RHW-2, XHH2-2 WIRE UNLESS NOTED OTHERWISE.
  - ALL GROUNDING AND BONDING TO BE PER THE RECOGNIZED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
  - ALL INSTALLED CONDUCTORS AND SIGNAL CABLES TO BE CLEARLY MARKED "COX COMMUNICATIONS" WITH BRASS OR FIBERGLASS TAGS.

SITE NAME:		PROPOSED ELECTRICAL LOADING														
PANEL DESIGNATION: CITY OF LAS VEGAS LIGHTING PEDESTAL		SUPPLY VOLTAGE: 120 V PHASE: 2 WIRE: 5														
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	USAGE FACTOR	BREAKER AMPS	PHASE A VA	PHASE B VA	USAGE FACTOR	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	ERICSSON RADIO 2203 & 2205	20	1	ON	300	1.00	300									2
NOTES:					PHASE A TOTAL VA		300									
					PHASE B TOTAL VA		0									
					TOTAL EVA		0.50									
					TOTAL AMPS		2.50									



NOTE: OLD METER SERVICE SHALL BE REMOVED



**AS-BUILT BUILT PER PLAN**  
  
 Jason Dineen  
 Spectrum Services, Inc  
 DATE: 01/15/18

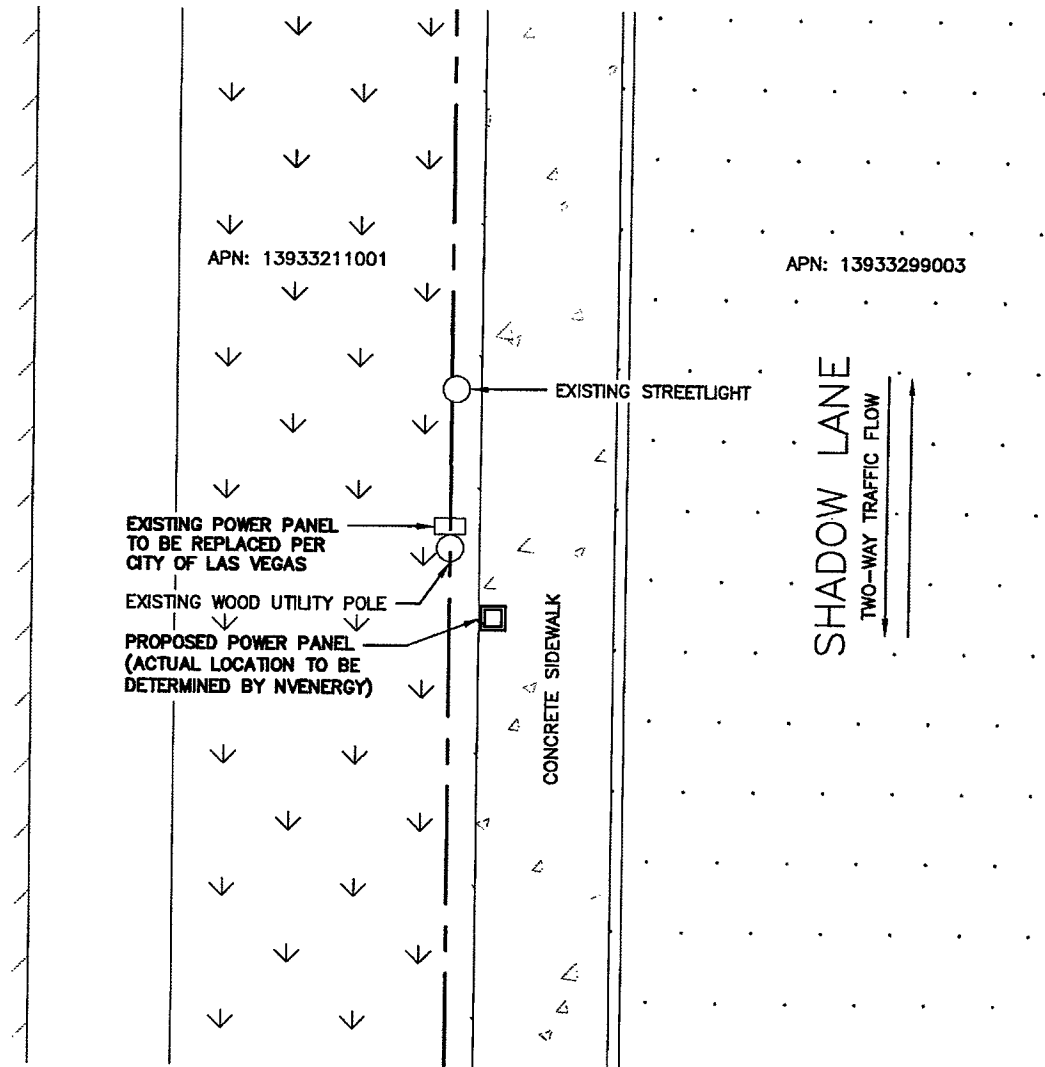
CONDUCTOR SIZE	GROUND SIZE	MAX. DISTANCE	% OF VOLTAGE DROP
#14 AWG	#12 AWG	260'-0"	2.99% VOLT DROP @ 2.5A
#12 AWG	#12 AWG	400'-0"	3.02% VOLT DROP @ 2.5A
#10 AWG	#10 AWG	675'-0"	2.99% VOLT DROP @ 2.5A
#8 AWG	#8 AWG	1500'-0"	2.95% VOLT DROP @ 2.5A
#6 AWG	#6 AWG	2000'-0"	3.00% VOLT DROP @ 2.5A
#4 AWG	#4 AWG	2700'-0"	2.97% VOLT DROP @ 2.5A

1 ELECTRICAL ONE LINE DIAGRAM  
 SCALE: N.T.S.

60113272.002.01...33TM0039SMC...Sheet E-2...User: smorman...New 17, 2017...1:16pm

60113272.002.01\_331M0039SMC 1/26/2018 11:15am - User: amorgan - Rev 17, 2017 - 1:15pm

**NOTES:**  
NEW PEDISTAL SETBACKS TO MEET THE REQUIREMENTS OF USDCCA



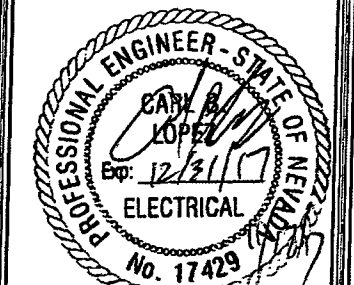
VG0016BA\_11LAB  
 33TM0039SMC  
 405 SHADOW LN COURT  
 LAS VEGAS, NV 89106

PROJECT NO: 113272.002.01  
 CHECKED BY: MDW

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	6/7/17	DMD	PRELIMINARY REVIEW
B	9/8/17	CLM	PRELIMINARY REVIEW
0	9/12/17	CLM	CONSTRUCTION
1	10/18/17	BDH	CONSTRUCTION
2	11/16/17	EAM	CONSTRUCTION

B&T ENGINEERING, INC.  
 12685  
 Expires 12/31/17



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**AS-BUILT  
 BUILT PER PLAN**

*Jason Dineen*

Jason Dineen  
 Spectrum Services, Inc

DATE  
 01/15/18

SHEET NUMBER: E-3  
 SHEET 8 OF 11

REVISION: 2



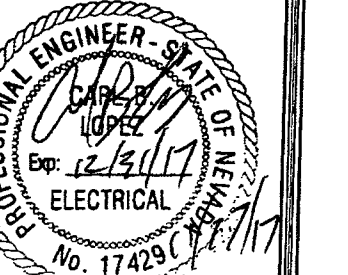
VG0016BA\_11LAB  
33TM0039SMC  
405 SHADOW LN COURT  
LAS VEGAS, NV 89106

PROJECT NO: 113272.002.01  
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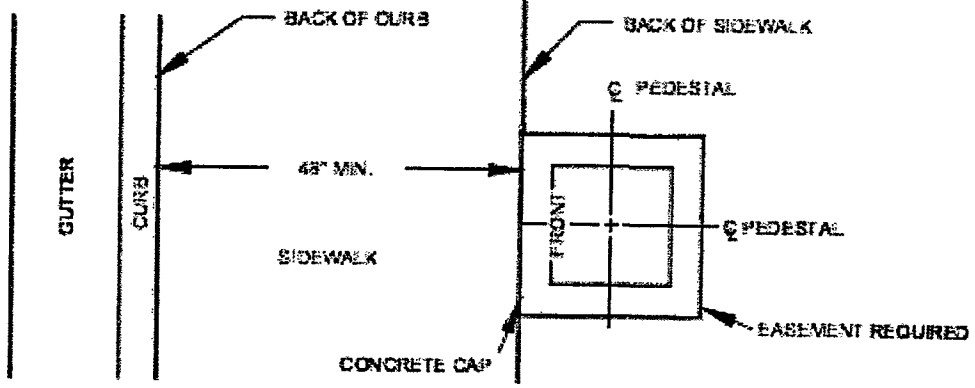
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12685  
Expires 12/31/17



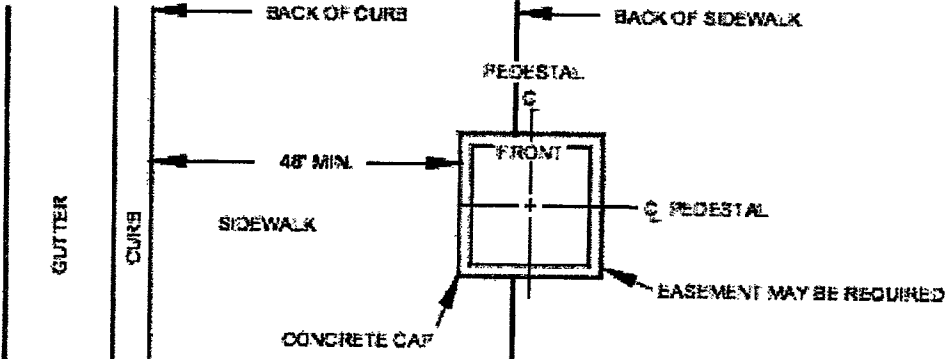
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SHEET NUMBER: E-4	REVISION: 2
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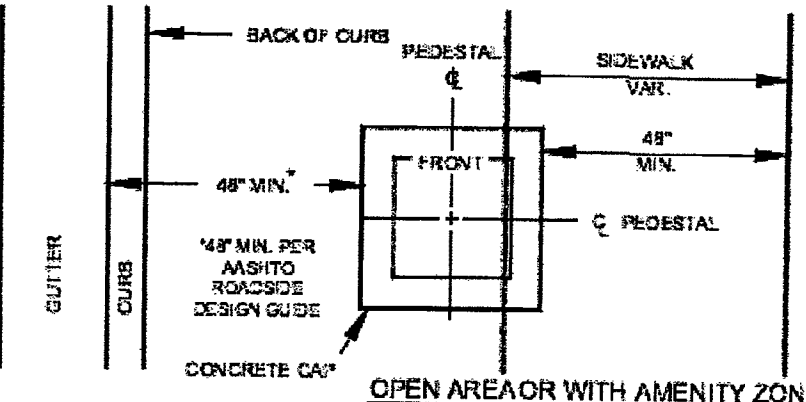
SHEET 9 OF 11



BEHIND SIDEWALK (FOR WIDTHS LESS THAN 5 FT.)

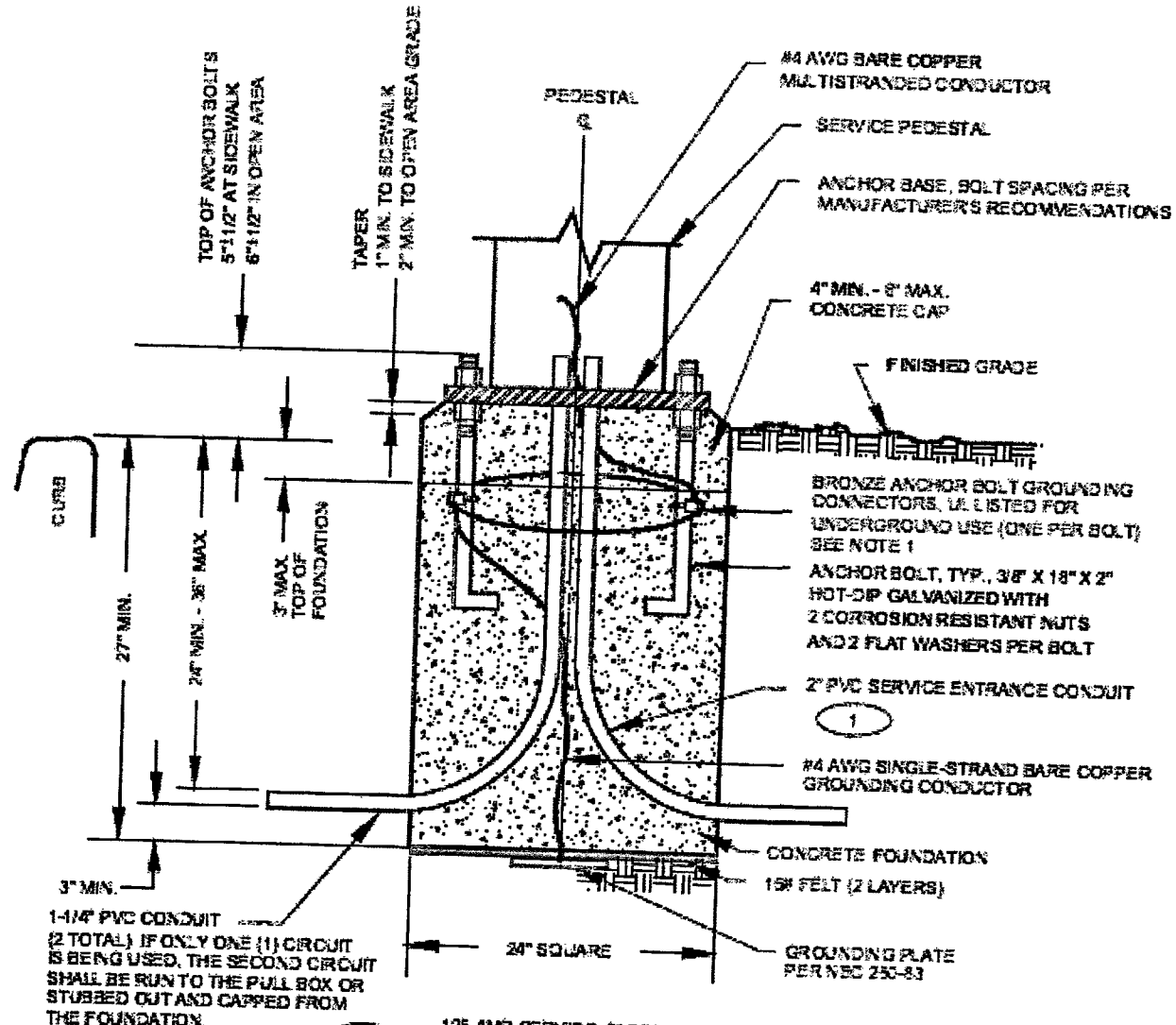


BACK PORTION OF SIDEWALK (FOR WIDTHS OF 5 FT. OR GREATER)



USDCCA DRAWING #331

1 SERVICE PEDESTAL SETBACK  
SCALE: N.T.S.



**NOTES**

- BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
- CABINET COVERS SHALL BE PARALLEL WITH CURB.
- IN AREAS WHERE RW PERMITS, THE CONCRETE BASE SHALL BE PLACED AT THE BACK EDGE OF THE SIDEWALK.
- CABINET COVERS SHALL OPEN TOWARDS THE STREET WHEN CABINETS ARE LOCATED AT BACK OF WALK. CABINET COVERS SHALL OPEN PARALLEL TO THE SIDEWALK FACING THE DIRECTION OF TRAFFIC WHEN LOCATED WITHIN THE SIDEWALK.
- WIRE SIZES ARE BASED ON UNDERGROUND FEED.
- WIRE SIZES SHALL BE INCREASED FOR VOLTAGE DROP LIMITATION WHEN RUN IS LONG.

2 SERVICE PEDESTAL FOUNDATION  
SCALE: N.T.S.

C011.327-002.01\_131TM0039SMC\_V091328B\_C0.dwg - Shee-E-4 - User: emvictoria - Nov 17, 2017 - 1:45pm

**AS-BUILT  
BUILT PER PLAN**

*Jason Dineen*  
Jason Dineen  
Spectrum Services, Inc

DATE  
01/15/18



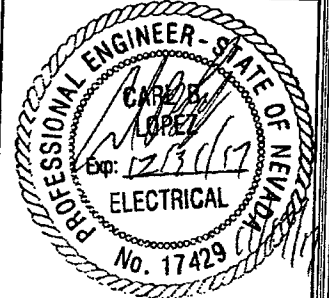
VG0016BA\_11LAB  
33TM0039SMC  
405 SHADOW LN COURT  
LAS VEGAS, NV 89106

PROJECT NO: 113272.002.01  
CHECKED BY: MDW

ISSUED FOR:

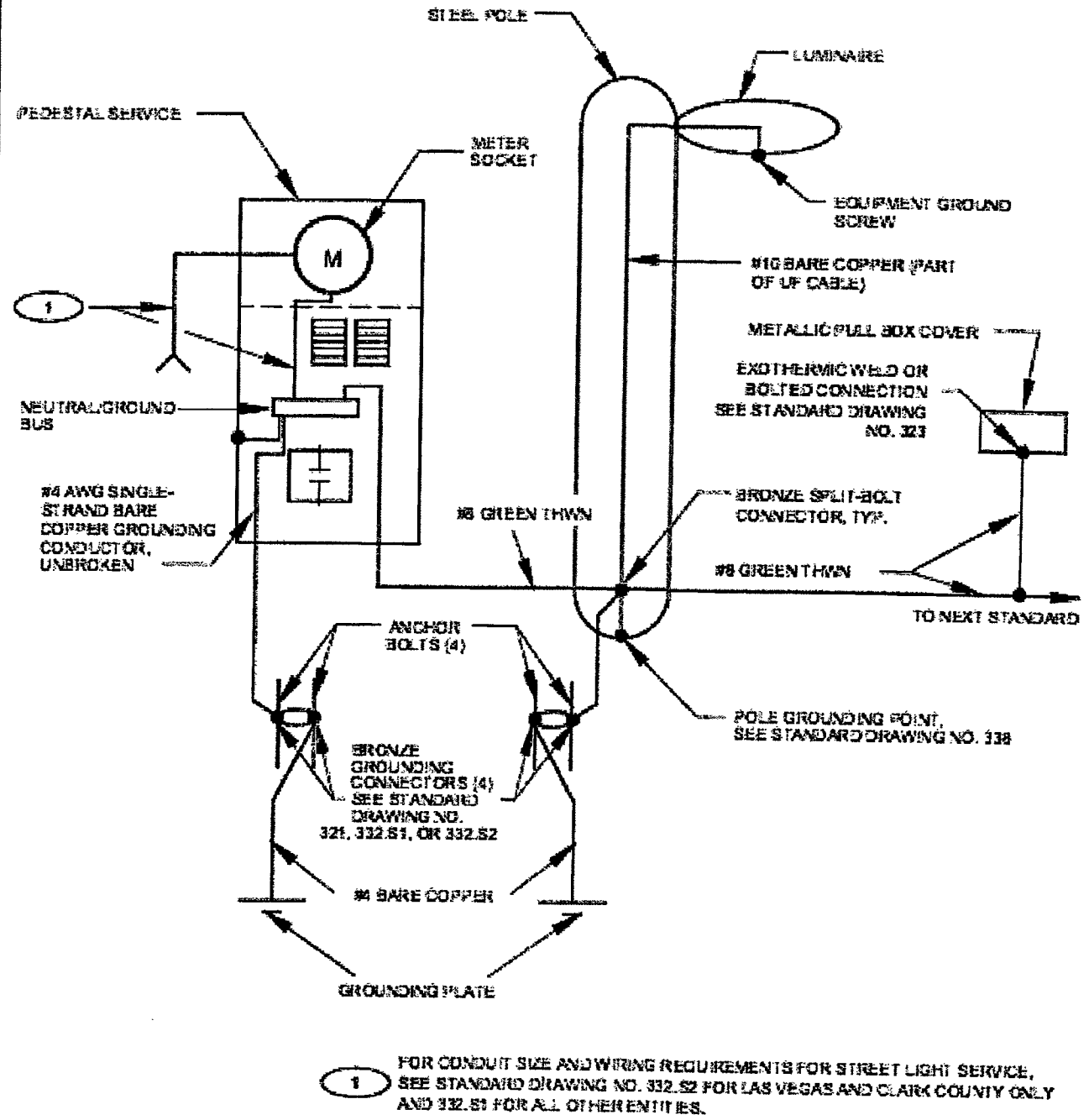
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0	9/12/17	CLM	CONSTRUCTION
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B&T ENGINEERING, INC.  
12685  
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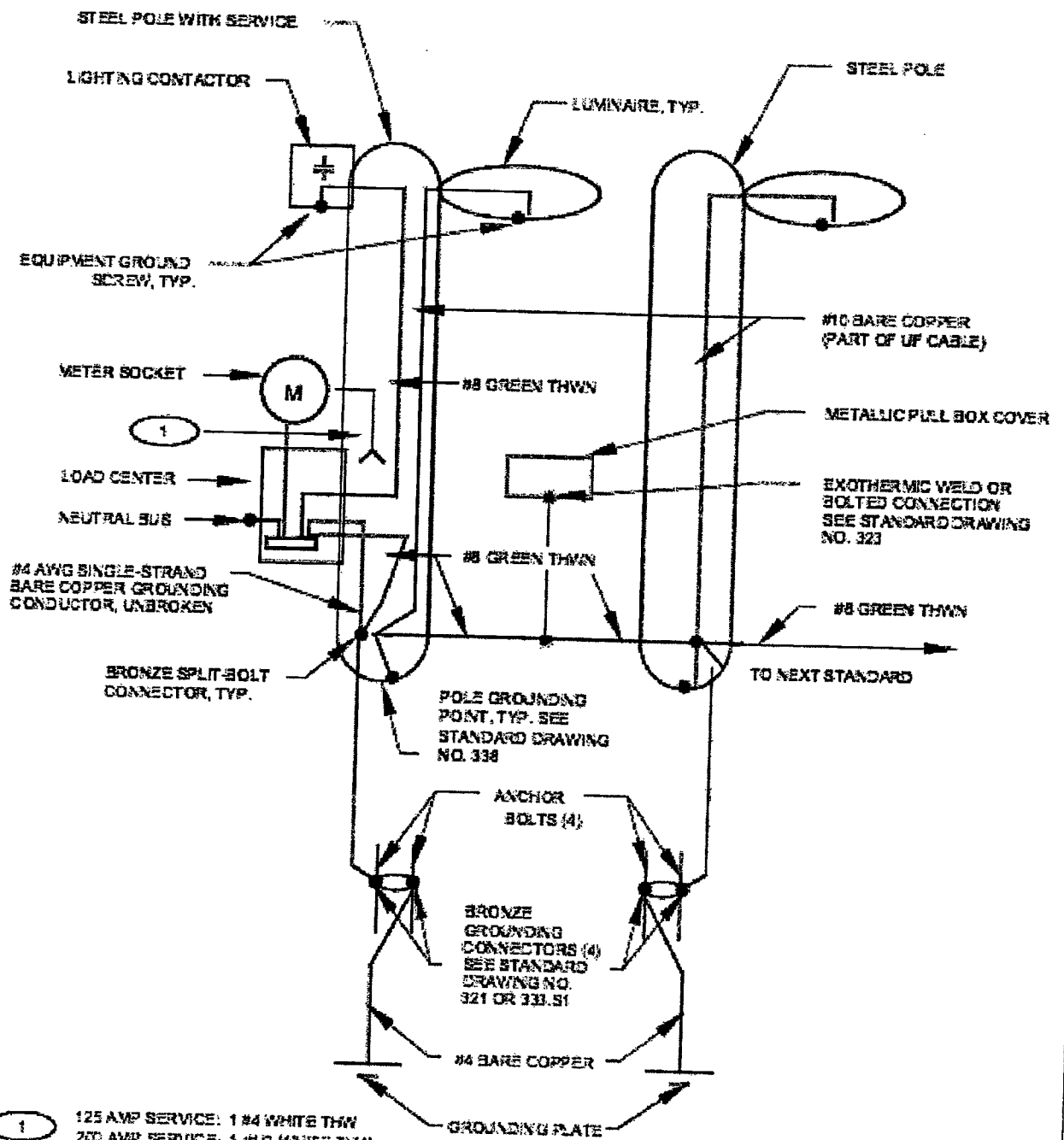
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SHEET NUMBER: E-5	REVISION: 2
SHEET 10 OF 11	



1 FOR CONDUIT SIZE AND WIRING REQUIREMENTS FOR STREET LIGHT SERVICE, SEE STANDARD DRAWING NO. 332.S2 FOR LAS VEGAS AND CLARK COUNTY ONLY AND 332.S1 FOR ALL OTHER ENTITIES.

USDCCA DRAWING #336



1 125 AMP SERVICE: 1 #4 WHITE THW  
200 AMP SERVICE: 1 #1/2 WHITE THW

USDCCA DRAWING #337

1 SYSTEM GROUNDING PLAN WITH PEDESTAL SERVICE  
SCALE: N.T.S.

2 SYSTEM GROUNDING PLAN WITH POLE MOUNTED SERVICE  
SCALE: N.T.S.

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**ENGINEER'S GENERAL NOTES**

1. ALL EXISTING UTILITY LINES SHOWN ON THE PLANS ARE FROM AVAILABLE UTILITY RECORDS. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION BEFORE STARTING CONSTRUCTION.
2. DISPOSAL OF ALL WASTE MATERIAL, AT AN APPROVED DISPOSAL SITE, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
4. THE CONTRACTOR SHALL FURNISH ALL CONSTRUCTION STAKING AT HIS EXPENSE.
5. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION, TO ALLOW FOR ANY NECESSARY ADJUSTMENT IN GRADE LINE AND TO VERIFY PIPE TYPES FOR ORDERING PROPER TRANSITION AND/OR TIE-IN FITTINGS WHICH MAY BE REQUIRED.
6. TRENCH EXCAVATION, BACKFILLING AND COMPACTION SHALL BE IN ACCORDANCE WITH CLARK COUNTY UNIFORM STANDARD DRAWING NO. 208 EXCEPT AS NOTED OTHERWISE.
7. ALL EXISTING IMPROVEMENTS (PAVING, CURB, GUTTER, SIDEWALK, LANDSCAPING, ETC.) THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED "IN-KIND" AS DIRECTED BY THE ENGINEER, OWNER/DEVELOPER OR AGENCY INSPECTORS.
8. THE PLANS PREPARED FOR THIS PROJECT PRESENT A DESCRIPTION OF THE WORK TO BE ACCOMPLISHED. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND DETERMINE, FROM HIS OWN INSPECTION, THE CONDITIONS UNDER WHICH IT IS TO BE PERFORMED. THE CONTRACTOR, BY MAKING HIS BID, REPRESENTS THAT HE HAS VISITED THE SITE AND FAMILIARIZED HIMSELF WITH LOCAL CONDITIONS, THE TYPE OF WORK TO BE PERFORMED, EVALUATED THE DIFFICULTY OF PERFORMING THE REQUIRED TASKS, AND THE LABOR, EQUIPMENT AND MATERIAL THAT ARE REQUIRED TO PROVIDE A COMPLETE PROJECT.

**SPECIAL AS-BUILD PLAN NOTE**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION AND SUBMITTAL OF ALL AS-BUILT PLANS TO THE GOVERNING AGENCY.

**CLARK COUNTY CONSTRUCTION NOTES**

1. INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE TO SCHEDULE AT (702) 455-4610. PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
2. EXACT LOCATION OF ALL SAW-CUT LINES SHALL BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
3. CURB AND GUTTER WITH A GRADE OF LESS THAN 4/10 OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
4. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ON-HALF (1/2") INCH ABOVE THE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
5. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA AND CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS, LATEST REVISION.
6. PRIVATE STREETS, CURBS, GUTTERS, AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.
7. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERCEPTION PER STANDARD DRAWING EXACT LOCATION OF RAMPS SHALL BE DETERMINED IN THE FIELD BY CLARK COUNTY PUBLIC WORKS INSPECTOR.
8. PROPER SIGNS, BARRIERS, BARRICADES AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST COORDINATING WITH THE DEPARTMENT OF PUBLIC WORKS INSPECTIONS AT (702) 455-4610.
9. THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
10. NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN (10) FEET OF ANY TRAVEL-WAY, EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATE ARE NOT TO BE CONSTRUED AS A TRENCH. NO OPEN TRENCH IS PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICHEVER IS GREATER. ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE STATED.
11. A TEMPORARY PATCH IS TO BE IN PLACE AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO TRAFFIC AND IS TO BE MAINTAINED BY THE PERMITTEE. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.
12. COMPACTION TESTS ARE REQUIRED.

**CITY OF LAS VEGAS GENERAL NOTES**

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST REVISED EDITION; THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; THE UNIFORM BUILDING CODE; AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (1/2") ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
9. CURB AND GUTTER FOUND TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS

SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.

10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
  11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
  12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY, REPORT #, DATE ) APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
  13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
  14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
  15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
- WALL NOTES:**
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
  17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
  18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
  19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.

20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC, THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.

21. SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S) SHALL BE PROVIDED TO THE CITY AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION. THE MAP(S) SHALL INCLUDE THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS. THE LOCATION SHALL BE DESCRIBED BY COORDINATES WHICH SHALL BE BASED ON THE OFFICIAL HORIZONTAL AND VERTICAL CONTROL NETWORKS OF THE CITY OF LAS VEGAS. FINAL LOCATION MAPS MUST BE SEALED AND CERTIFIED BY A NEVADA PROFESSIONAL LAND SURVEYOR TO HAVE POSITIONAL CERTAINTIES OF ± 0.09 METERS (± 0.3 FEET) HORIZONTALLY AND VERTICALLY. A SEPARATE ELECTRONIC COMMA DELIMITED FILE FOR THE SANITARY SEWER AND STORM DRAIN COORDINATES SHALL ALSO ACCOMPANY THE SANITARY SEWER AND STORM DRAIN FINAL LOCATION MAP(S).

SANITARY SEWER AND STORM DRAIN FACILITIES SHOWN ON THESE PLANS SHALL BE USED TO MEET THE REQUIREMENTS OF NRS 455 AND SHALL SHOW AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, AND THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY. ANY DEVIATIONS FROM THE INFORMATION SHOWN SHALL BE NOTED AND SUBMITTED AS A REVISION TO THE PLANS AND APPROVED PRIOR TO ACCEPTANCE OF FACILITY VIDEO INSPECTION.

22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.

23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

24. REVISED 02/03/15



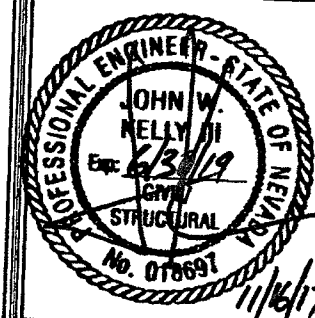
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12685  
Expires 12/31/17



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SHEET NUMBER: GN-1  
REVISION: 2  
SHEET 11 OF 11

**AS-BUILT  
BUILT PER PLAN**

Jason Dineen  
Spectrum Services, Inc

DATE: 01/15/18

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