COX

Red Lined Set
King Communications
OCT 16 2019

33TM0055SMC
VG0005BA_61LAB
44.25 E CLARK AVE
LAS VEGAS, NV 89101
APN: 139-34-712-018

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.
L18-02806 1017239-CBL
APPROVAL: _____ DATE: 2 26 19

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:	36.16223098°
LONGITUDE:	-115.1381136°
GROUND ELEVATION:	± 1988.88' AMSL
JURISDICTION:	CITY OF LAS VEGAS
APN:	139-34-712-018
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 MCALISTER- 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

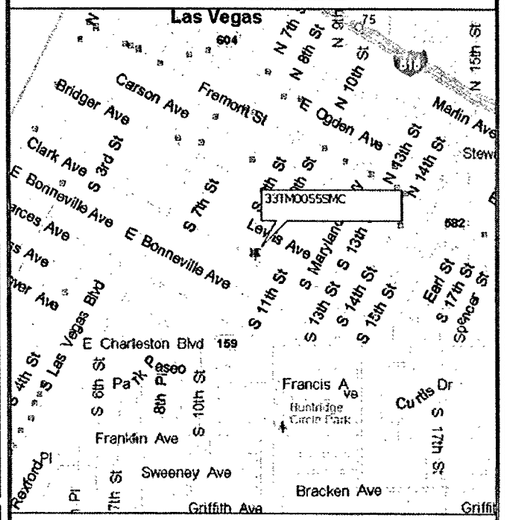
CODES

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.

VICINITY MAP



NO SCALE

DRIVING DIRECTIONS

DEPART COX VEGAS OFFICE ON VEGAS DR. TURN RIGHT ONTO (N) MARTIN L KING BLVD. TURN LEFT ONTO RAMP. TAKE RAMP (LEFT) ONTO I-515 [US-93]. AT EXIT 75A, TURN RIGHT ONTO RAMP. KEEP RIGHT TO STAY ON RAMP. BEAR RIGHT ONTO NV-604 [N LAS VEGAS BLVD]. KEEP STRAIGHT ONTO NV-604 [S LAS VEGAS BLVD]. TURN LEFT ONTO CLARK AVE AND ARRIVE AT 33TM0055SMC.

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
C-1	OVERALL SITE PLAN
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
GN-1	GENERAL NOTES

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

811

B+T GRP

BLUESTREAM

COX

VG0005BA_61LAB
33TM0055SMC
44.25 E CLARK AVE.
LAS VEGAS, NV 89101

PROJECT NO:	113288.002
CHECKED BY:	RPS

ISSUED FOR:

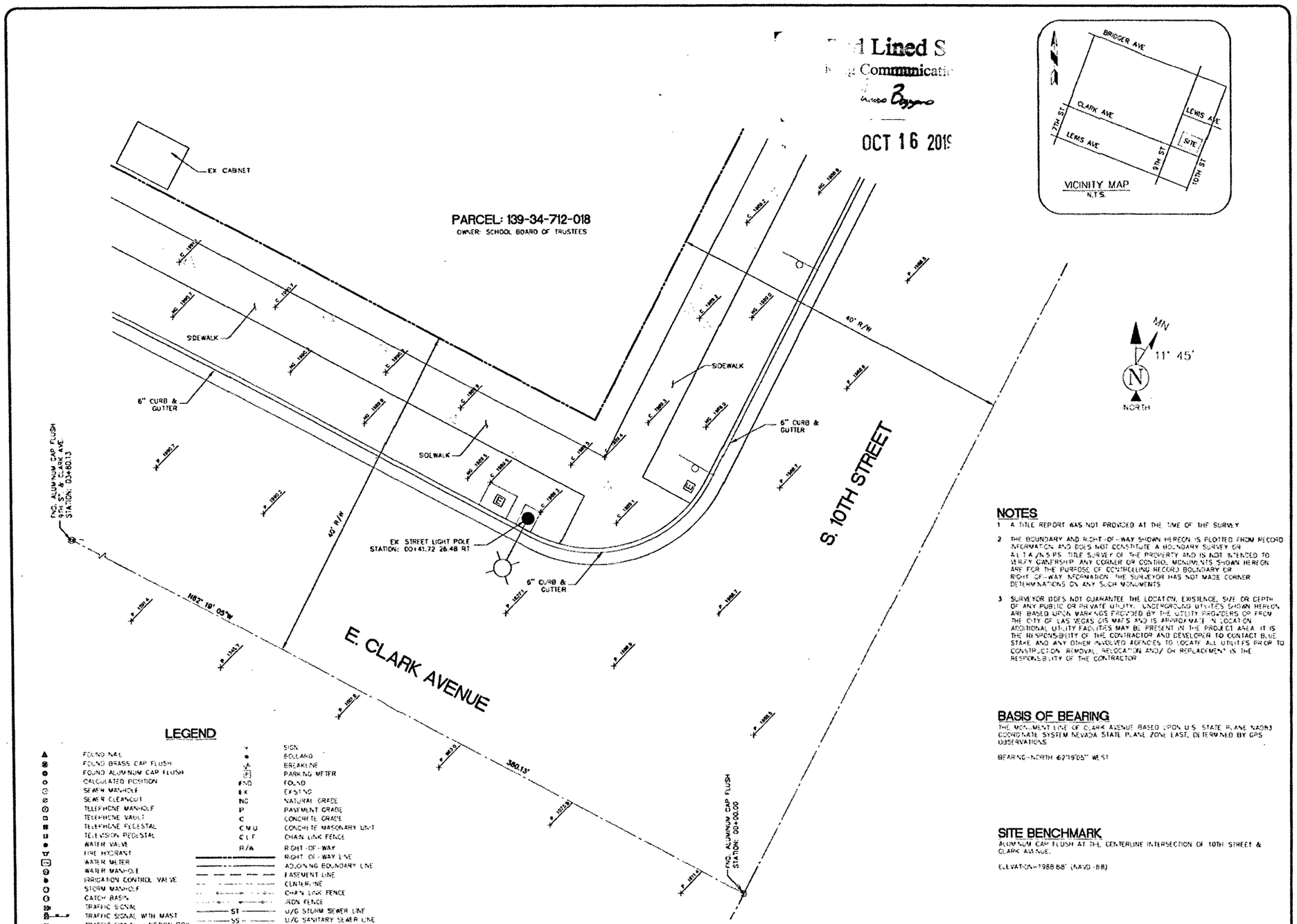
REV	DATE	DRWN	DESCRIPTION
A	6/12/17	SWM	PRELIMINARY REVIEW
B	6/21/17	RPS	PRELIMINARY REVIEW
0	6/24/17	GEH	CONSTRUCTION
1	10/18/17	EAM	CONSTRUCTION
2	2/25/19	DKO	CONSTRUCTION

B&T ENGINEERING, INC.
12685
Expires 12/31/19

PROFESSIONAL ENGINEER STATE OF NEVADA
JOHN W. KELLY III
Exp 6/30/19
CIVIL / STRUCTURAL
No. 018021
2/25/19

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:	REVISION:
T-1	2



LEGEND

▲	FOUND NAIL	▼	SIGN
⊗	FOUND BRASS CAP FLUSH	●	BOLLARD
⊕	FOUND ALUMINUM CAP FLUSH	⚡	BREAKLINE
○	CALCULATED POSITION	PM	PARKING METER
⊙	SEWER MANHOLE	FND	FOUND
Ⓢ	SEWER CLEANOUT	EX	EXISTING
Ⓣ	TELEPHONE MANHOLE	NG	NATURAL GRADE
□	TELEPHONE VAULT	P	PAVEMENT GRADE
■	TELEPHONE PEDESTAL	C	CONCRETE GRADE
▭	TELEVISION PEDESTAL	CMU	CONCRETE MASONARY UNIT
●	WATER VALVE	CLF	CHAIN LINK FENCE
Ⓥ	FIRE HYDRANT	R/W	RIGHT-OF-WAY
Ⓦ	WATER METER		RIGHT-OF-WAY LINE
⊙	WATER MANHOLE		ADJOINING BOUNDARY LINE
●	IRRIGATION CONTROL VALVE		EASEMENT LINE
⊙	STORM MANHOLE		CENTERLINE
○	CATCH BASIN		CHAIN LINK FENCE
⊗	TRAFFIC SIGNAL		IRON FENCE
⊗	TRAFFIC SIGNAL WITH MAST	ST	U/G STORM SEWER LINE
▭	TRAFFIC SIGNAL JUNCTION BOX	SS	U/G SANITARY SEWER LINE
⊙	ELECTRIC MANHOLE	OHE	O/H ELECTRIC LINE
▭	ELECTRIC JUNCTION BOX	E	U/G ELECTRIC LINE
◇	POWER POLE	G	U/G GAS LINE
↙	DOWN GUY	T	U/G COMMUNICATIONS LINE
□	ELECTRIC TRANSFORMER	W	U/G WATER LINE
○	LIGHT POST		PAVED AREA
⊗	STREET LIGHT W/ MAST ARM		BRICK AREA
✳	PALM TREE		CONCRETE AREA
○	TREE (TYP)		

GRAPHIC SCALE

5 0 2.5 5 10 20

(IN FEET)

1 inch = 5 ft

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

BASIS OF BEARING

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

BEARING=NORTH 82°19'05" WEST

SITE BENCHMARK

ALUMINUM CAP FLUSH AT THE CENTERLINE INTERSECTION OF 10TH STREET & CLARK AVENUE.

ELEVATION=1988.88' (NAVD 88)

CENTER OF GEODETIC COORDINATES

EXISTING STREET LIGHT POLE LOCATION
LATITUDE 35° 09' 44.071" NORTH (NAD83)
LONGITUDE 115° 08' 17.055" WEST (NAD83)
ELEVATION @ GRADE = 1989.9' (NAVD88)

B+T GRP

SITE NAME:
331M0055SMC

SITE ADDRESS:
4425 E. CLARK AVENUE
LAS VEGAS, NV 89101

SUBMITTALS

NO.	BY	DATE	SUBMITTAL
1	MJG	05/30/17	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

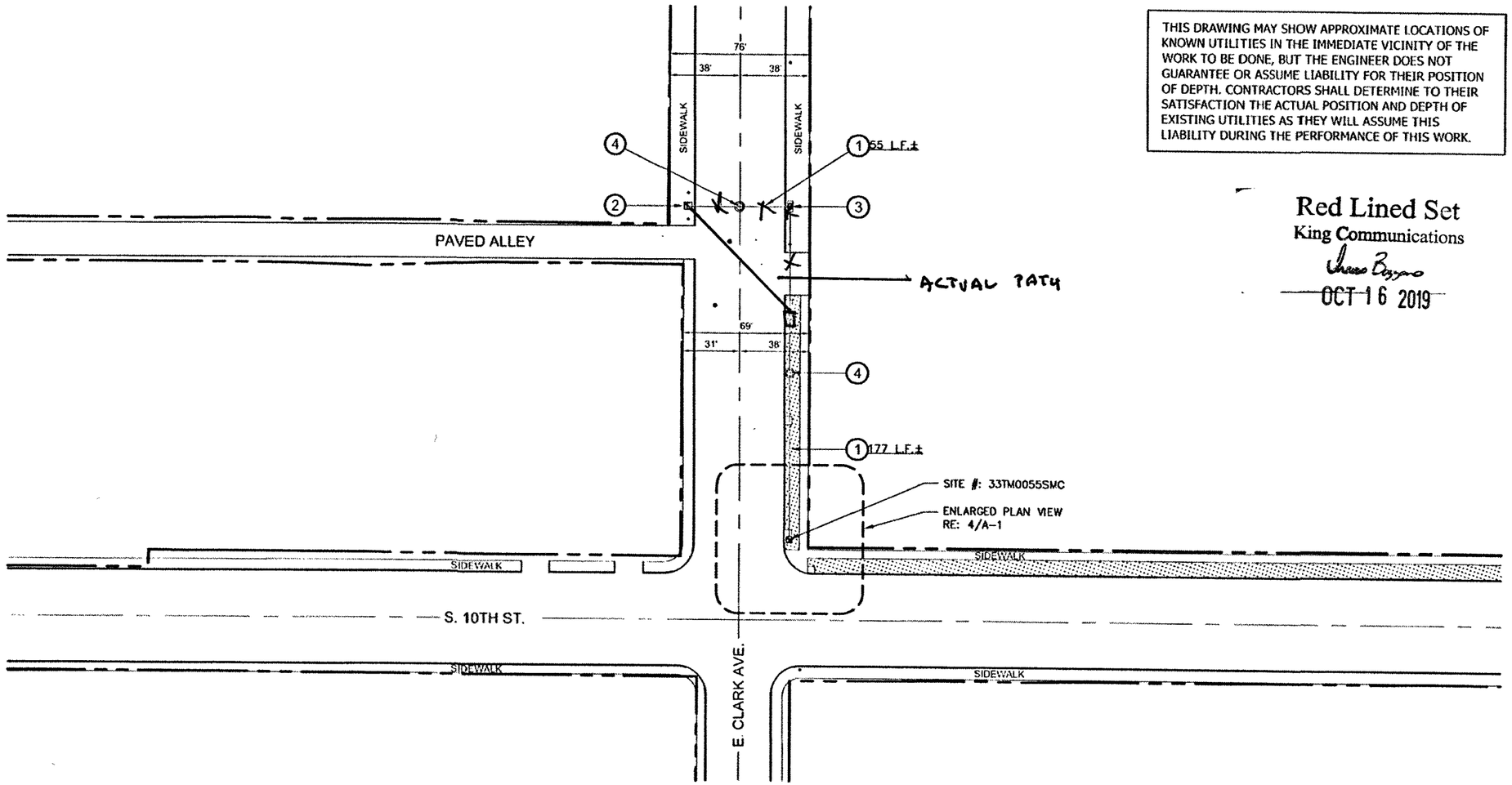
PROFESSIONAL LAND SURVEYOR
CHAD W HUBER
Exp. 06.30.19
No. 15935
STATE OF NEVADA

06.16.17

SITE SURVEY

JOB NO:	FIELD BY:	DRAWN BY
1502005-55	MJG	MJG

SHEET NO.	SHEET NAME
2 OF 9	LS-1



THIS DRAWING MAY SHOW APPROXIMATE LOCATIONS OF KNOWN UTILITIES IN THE IMMEDIATE VICINITY OF THE WORK TO BE DONE, BUT THE ENGINEER DOES NOT GUARANTEE OR ASSUME LIABILITY FOR THEIR POSITION OF DEPTH. CONTRACTORS SHALL DETERMINE TO THEIR SATISFACTION THE ACTUAL POSITION AND DEPTH OF EXISTING UTILITIES AS THEY WILL ASSUME THIS LIABILITY DURING THE PERFORMANCE OF THIS WORK.

Red Lined Set
King Communications
OCT 16 2019

LEGEND:

- INDICATES PROPOSED POTHOLE LOCAITON
- INDICATES EXISTING ST-LIGHT (NODE)
- INDICATES EXISTING SERVICE LOCATION
- INDICATES PROPOSED PULL BOX LOCATION
- INDICATES APPROX. BORE PIT LOCATION
- INDICATES APPROX. RESTORATION LIMITS
- INDICATES PROPOSED POWER SERVICE LINE
- INDICATES RIGHT-OF-WAY LINE
- INDICATES ROAD CENTER LINE
- INDICATES EXISTING CONDUIT
- INDICATES PAVEMENT RESTORATION LIMITS

1 OVERALL SITE PLAN
SCALE: 0' 30' 60' 90' 120'

USA NORTH 811 Call 811 Before You Dig

NOTE:

1. CONTRACTOR SHALL COORDINATE WITH UTILITIES SERVICE PROVIDER.
2. RIGHT-OF-WAY LINES AND PROPERTY LINES WERE OBTAINED FROM THE CLARK COUNTY ASSESSORS GIS DATABASE AND ARE APPROXIMATE.

RTC SOUTHERN NEVADA NOTES

1. FOR ASPHALT CUT AND RESTORATION REQUIREMENTS, SEE RTC UNIFORM STANDARD DRAWING SERIES 500.1, 500.2, 500.3, 500.4, 500.5
2. FOR SIDEWALK REMOVAL AND REPLACEMENT REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 234
3. FOR TYPICAL U.G. UTILITY LOCATIONS UNDER STREETS AND SIDEWALKS SEE RTC UNIFORM STANDARD DRAWING 501 AND 501.1
4. FOR BACKFILL REQUIREMENTS SEE RTC UNIFORM STANDARD DRAWING 503.1
5. SEE COMPLETE RTC UNIFORM STANDARD DRAWINGS FOR FURTHER AGENCY REQUIREMENTS

KEY NOTES:

1. PROPOSED POWER ROUTE LOCATED UNDER EXISTING SIDEWALK IN PROPOSED 1–2" CONDUIT TO EXISITING CITY OF LAS VEGAS STREET LIGHT PEDESTAL AT 36" TO 48" DEPTH (± 10% VARIANCE). (ACTUAL ROUTE TO BE VERIFIED IN FIELD)
2. CONNECT TO EXISTING ELECTRIC DEMARC
3. PROPOSED BORE PIT LOCATION
4. PROPOSED POTHOLE LOCATION

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BLUESTREAM

COX

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33TM0055SMC

4425 E CLARK AVE
LAS VEGAS, NV 89101

PROJECT NO:	113288.002
CHECKED BY:	RPS

ISSUED FOR:

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1	10/18/17	EAM	CONSTRUCTION
2	7/25/19	DKD	CONSTRUCTION

B&T ENGINEERING, INC.
12685
Expires 12/31/19

PROFESSIONAL ENGINEER STATE OF NEVADA
JOHN W. KELLY III
Exp 6/30/19
CIVIL / STRUCTURAL
NO. 018681
7/25/19

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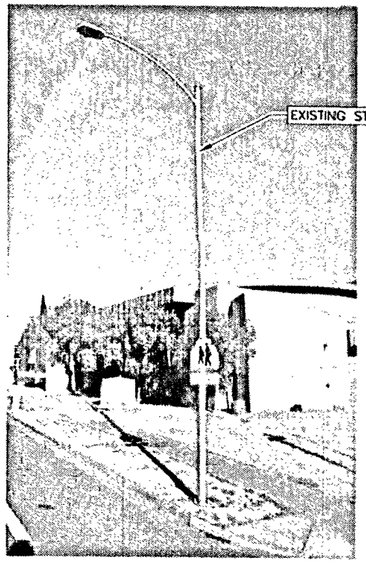
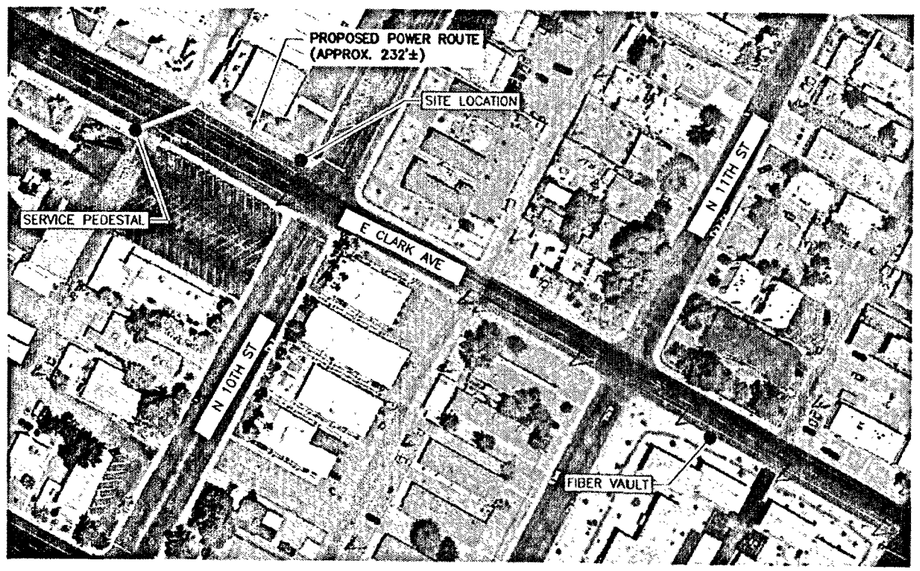
SHEET NUMBER: C-1
SHEET 3 OF 9

REVISION: 2



1 PHOTO ELEVATON
SCALE: N.T.S.



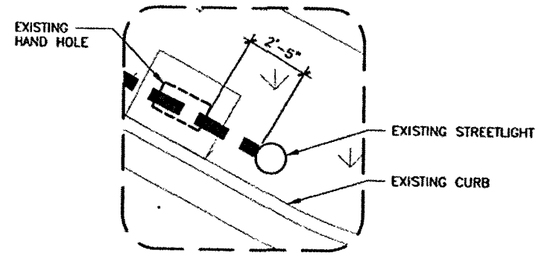
2 AERIAL SITE LOCATION
SCALE: N.T.S.

N

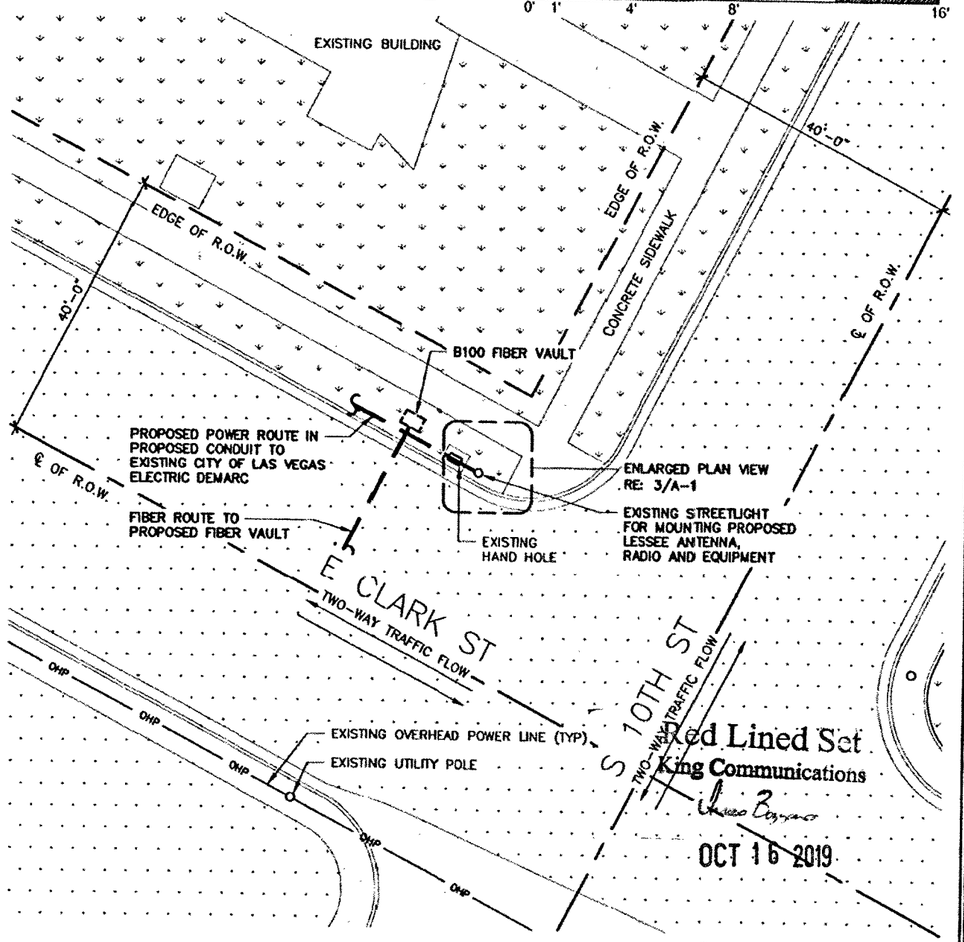
NOTE:
THIS SITE PLAN WAS GENERATED WITH THE USE OF A SURVEY. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.

NOTE:
THE EXISTING IMPROVEMENTS SHOWN HEREIN ARE BASED ON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS PERFORMED ON MAY 18, 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'

N

Red Lined Set
King Communications
OCT 16 2019

B+T GRP

BLUESTREAM

COX

VG0005BA_61LAB

33TM0055SMC

44.25 E CLARK AVE
LAS VEGAS, NV 89101

PROJECT NO:	113285.002
CHECKED BY:	RPS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	6/12/17	SMM	PRELIMINARY REVIEW
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0	8/24/17	GEH	CONSTRUCTION
1	10/18/17	EAM	CONSTRUCTION
2	2/25/19	DKD	CONSTRUCTION

B&T ENGINEERING, INC.
12685
Expires 12/31/19

PROFESSIONAL ENGINEER
JOHN W. KELLY III
Exp 6/30/19
CIVIL
STRUCTURAL
NO. 018041
STATE OF NEVADA
6/30/19

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SHEET NUMBER: A-1
SHEET 3 OF 9

REVISION: 2

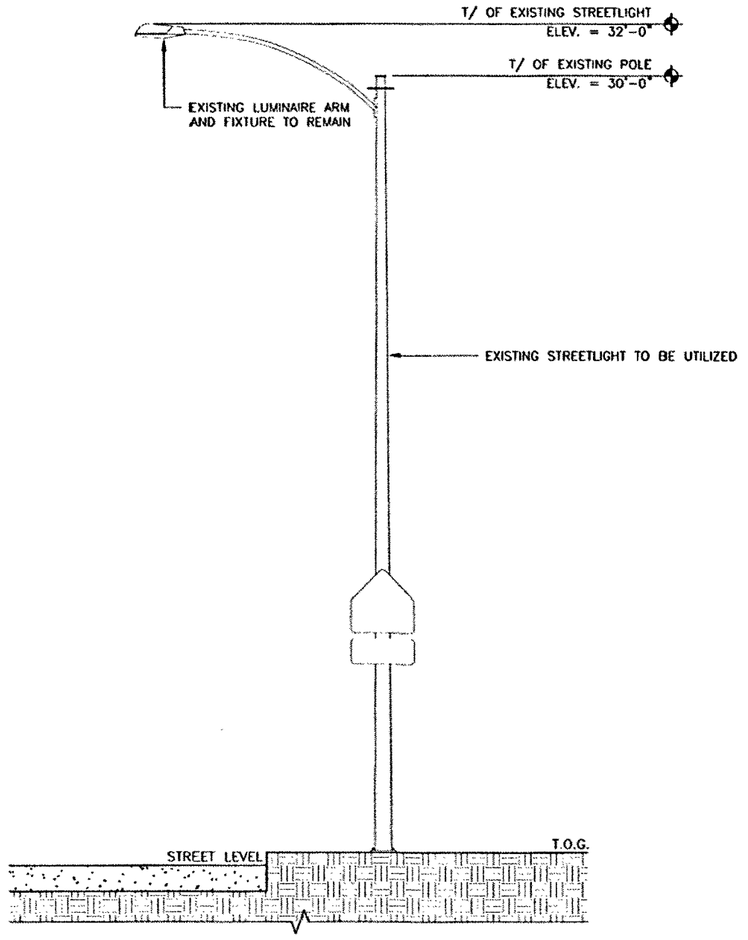
NOTE:
NEW EQUIPMENT SHOWN ON THIS PLAN HAS BEEN EVALUATED TO VERIFY THE POLE OR STRUCTURE HAS THE CAPACITY TO ADEQUATELY SUPPORT THE EQUIPMENT. PRIOR TO ANY INSTALLATION, CONTRACTOR SHALL REFER TO STRUCTURAL ANALYSIS FOR APPROVAL OF ADDITIONAL NEW APPURTENANCES.

SITE NOTES:

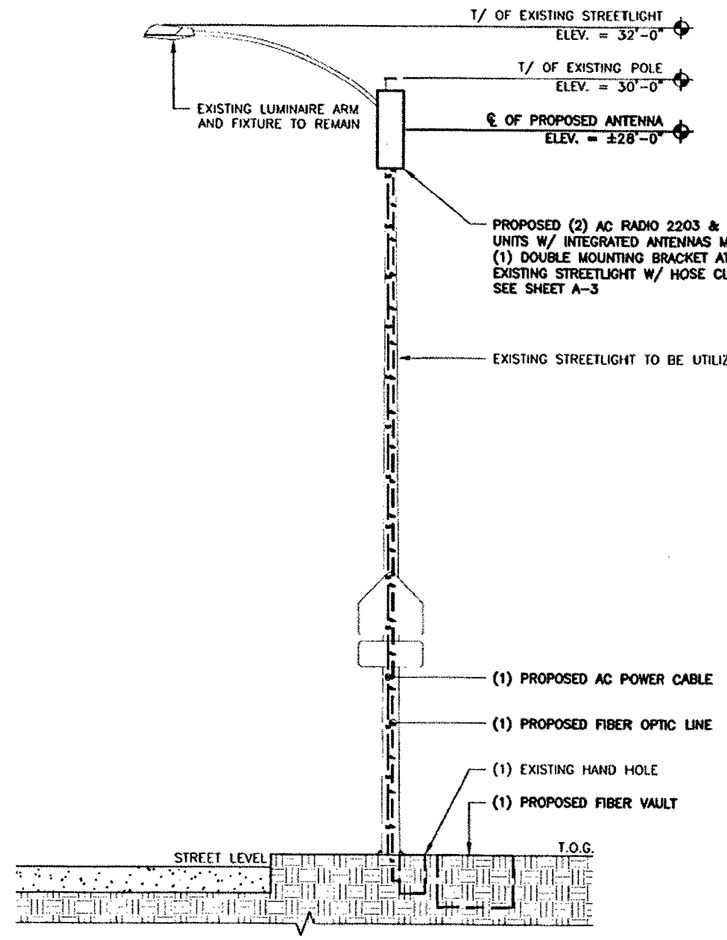
1. ALL PROPOSED EQUIPMENT WILL BE PAINTED TO MATCH POLE, PER JURISDICTIONAL REQUIREMENT.

Red Lined Set
King Communications

OCT 16 2019



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



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

B+T GRP

BLUESTREAM

COX

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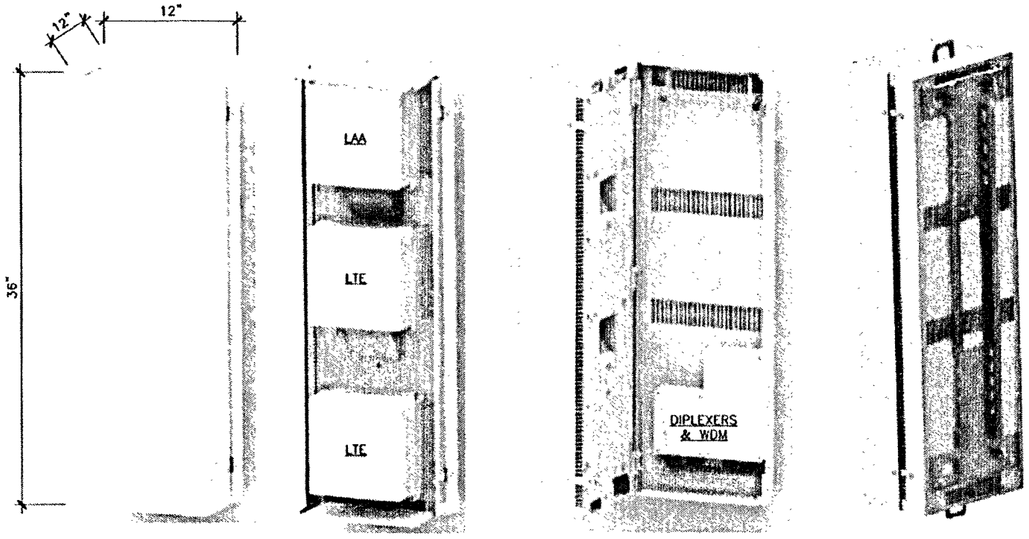
SHEET NUMBER: A-2
REVISION: 2
SHEET 5 OF 9

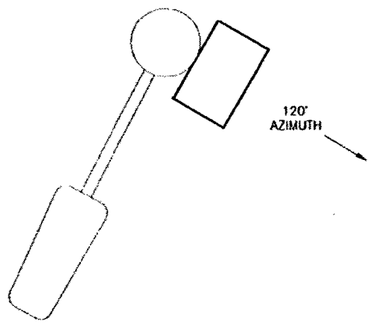


1 ANTENNA & RADIO MOUNT DETAIL
SCALE: N.T.S.

Red Lined Set
King Communications
OCT 16 2019

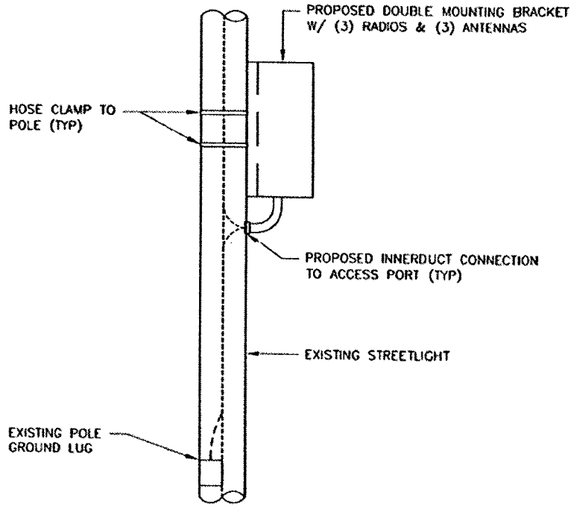
- Standard 3 radio (small cells) site solution
- Tech/Band support : LTE (B66 & B2) & LAA (B46)
- RRH Configuration (3 radios) : 2 x 2203 radio + 1x 2205 radio
- 2X2 MIMO support for LTE & LAA
- Integrated or External antenna option
  - Diplexers for external antenna for LTE
  - LAA radio connects directly 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.

N



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

B+T GRP

BLUESTREAM

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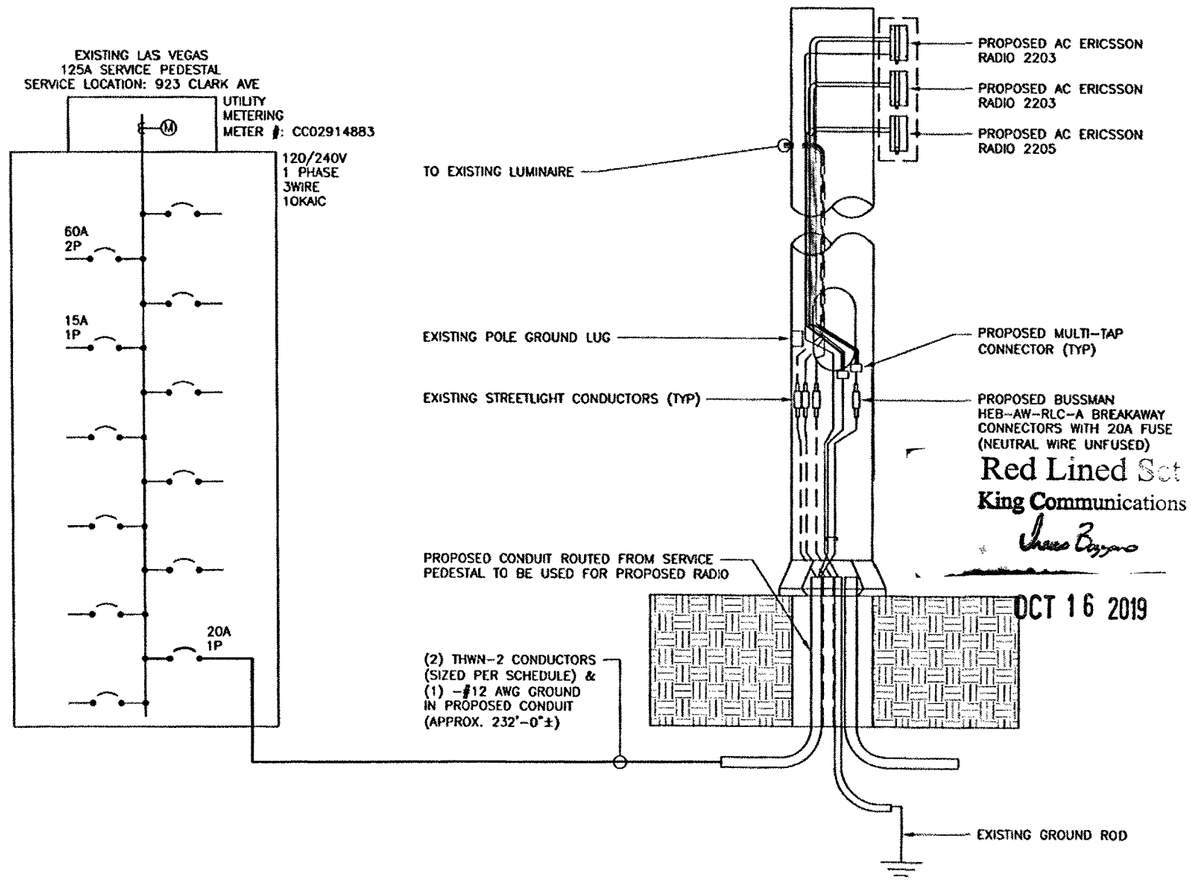
SHEET NUMBER:	REVISION:
A-3	2
SHEET 6 OF 9	

	SITE NAME:	PROPOSED ELECTRICAL LOADING SUPPLY VOLTAGE: 120 V PHASE: 2 WIRE: 5														
	PANEL DESIGNATION: CITY OF LAS VEGAS LIGHTING PEDESTAL															
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								

NOTES:

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



120VAC FEEDER CONDUCTOR MAXIMUM DISTANCE		
#14 AWG	260'-0"	3% VOLT DROP @ 2.5A
#12 AWG	400'-0"	3% VOLT DROP @ 2.5A
#10 AWG	675'-0"	3% VOLT DROP @ 2.5A

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

Red Lined Set
King Communications

OCT 16 2019

B+T GRP

BLUESTREAM

COX

VG0005BA_61LAB

33TM0055SMC

44.25 E CLARK AVE
LAS VEGAS, NV 89101

PROJECT NO:	113288.002
CHECKED BY:	RPS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	6/12/17	SMM	PRELIMINARY REVIEW
B	8/21/17	RPS	PRELIMINARY REVIEW
0	8/24/17	GDH	CONSTRUCTION
1	10/18/17	EAM	CONSTRUCTION
2	2/25/19	DKO	CONSTRUCTION

B&T ENGINEERING, INC.
12685
Expires 12/31/19

PROFESSIONAL ENGINEER - STATE OF NEVADA
DARREL K. LOPEZ
Exp: 12/31/19
ELECTRICAL
No. 17429
2/25/19

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: E-2
SHEET 5 OF 9

REVISION: 2

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 INTERFERENCE'S 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 (½') 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. 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.
14. 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:
15. 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.
16. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
17. 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.
18. 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.
19. 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.
20. 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, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER 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). OR 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.
21. 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. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 02/03/15

Red Lined Set
King Communications
Chris Bogan
OCT 16 2019

B+T GRP

BLUESTREAM

COX

VG0005BA_611AB

33TM0055SMC

44.25 E CLARK AVE
LAS VEGAS, NV 89101

PROJECT NO:	113288.002
CHECKED BY:	RPS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	6/12/17	SMW	PRELIMINARY REVIEW
B	8/21/17	RPS	PRELIMINARY REVIEW
0	8/24/17	GEH	CONSTRUCTION
1	10/18/17	EAM	CONSTRUCTION
2	2/25/19	DKD	CONSTRUCTION

B&T ENGINEERING, INC.
12685
Expires 12/31/19

PROFESSIONAL ENGINEER STATE OF NEVADA
JOHN W. KELLY III
No. 018047
6/30/19
CIVIL/STRUCTURAL
6/19

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:	REVISION:
GN-1	2
SHEET 9 OF 9	

NOTES:

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
3. HEIGHT SHALL BE VERIFIED WITH OWNER TO INSTALLATION.
4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
5. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.).
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSFORMATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA & NBFU.
8. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
9. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS.
10. COMPLETE JOB SHALL BE GUARANTEED FOR A PRIOR OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
11. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
12. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
13. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOW DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
14. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
15. ALL CONDUCTORS SHALL BE COPPER.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWINGS.
18. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
19. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
20. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
21. WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
22. GROUNDING CONDUCTORS SHALL BE SOLID TINED COPPER AND ANNEALED #2.
23. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.
24. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY SQUARE D COMPANY OR APPROVED EQUAL. ALL MATERIALS SHALL BE U.L. LISTED.
25. CONDUIT:
    a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR RIGIDCONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
    b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
    c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
    d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
26. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
27. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
28. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.
29. THE ELECTRICAL INSTALLATION WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL WORK.
30. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN HIS BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH INTENT OF THE ELECTRICAL DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE CODES.
31. ALL MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIAL AND LABOR TO CORRECT THE TROUBLE WITHOUT COST TO THE OWNER.
32. ALL WORK TO BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPETED.
33. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES.
34. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, UNLESS NOTED OTHERWISE AND CO-ORDINATED WITH THE GENERAL CONTRACTOR.
35. ELECTRICAL CONTRACTOR SHALL CO-ORINATE ALL WORK WITH CIVIL AND ARCHITECTURAL PLANS. THE REQUIREMENTS OF ALL EQUIPMENT ACTUALLY BEING INSTALLED SHALL BE VERIFIED PRIOR TO INSTALLING THE ELECTRICAL WORK.
36. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER TYPE THWN-2, THW-2, RHW-2, XHHW-2, #14, #12, & #10 SOLID, #8 AND LARGER STRANDED, UNLESS NOTED OTHERWISE.
37. ON COMPLETION OF THE WORK, THE INSTALLATION SHALL BE FREE FROM GROUNDS AND SHORT CIRCUITS.
38. ELECTRICAL CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE ARCHITECT AND CUSTOMER UPON COMPLETION OF THE JOB.
39. ELECTRICAL WORK SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED, INCLUDING BUT NOT LIMITED, TO COMPLETE ELECTRICAL SYSTEMS POWER AND LIGHTING, TELEPHONE CONDUIT SYSTEM, SIGNAL SYSTEMS, PANEL BOARD(S), CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS, ETC., AS INDICATED ON ELECTRICAL DRAWINGS AND/OR REQUIRED BY GOVERNING CODES.
40. RACEWAYS SHALL BE: RIGID STEEL CONDUIT: HOT-DIP GALVANIZED HEAVY WALLS AS MANUFACTURED BY REPUBLIC, TRIANGLE OR EQUAL, RIGID POLYVINYL CHLORIDE CONDUIT (PVC): HEAVY WALLS SCHEDULE 40 AS MANUFACTURED BY CARLON ELECTRICAL, VISQEEN OR EQUAL, ELECTRICAL METALLIC TUBING (EMT): ZINC-COATED THIN WALL AS MANUFACTURED BY TRIANGLE, REPUBLIC OR EQUAL.
41. FUSE TYPE SHALL BE BUSSMANN RK-1 OR CLASS "J" FUSE.
42. PROVIDE ENGRAVED PLASTIC LABELS TO IDENTIFY ALL PANEL BOARDS, XFMRS., DISTRIBUTION PANELS, DISCONNECT SWITCHES, AND TRANSFER SWITCHES, LABELS SHALL READ IN THIS FASHION "A" 208Y/120V 3PH, 4W, 225A, CKT. BKR OR FUSES TYPE AND SIZES.
43. E.C. SHALL VERIFY AND TEST GROUND TO SOURCE TO A MAXIMUM OF 5 OHMS. IF THE GROUND TEST DOES NOT ACHIEVE THE 5 OHMS LESS, E.C. SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY CONDUCTORS AND GROUND RODS TO ACHIEVE 5 OHMS MAXIMUM.
44. BEFORE SUBMITTING BID, VERIFY EXISTING SITE CONDITIONS, ELECTRICAL SERVICE REQUIREMENTS AND THE EXACT SERVING UTILITY POINTS OF CONNECTION.
45. THE ELECTRICAL CONTRACTOR (E.C.) SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
46. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ELECTRICAL MATERIALS, EQUIPMENT AND WORK SHOWN ON THESE PLANS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
47. E.C. SHALL FURNISH AND INSTALL ALL SWITCHED, CONDUITS, WIRES, BOXES, LIGHT FIXTURES (INCLUDING LAMPS), SERVICE DEVICES, RECEPTACLES, SWITCHBOARDS AND PANEL BOARDS, ETC. REQUIRED FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM.
48. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL/LOCATION INFORMATION RELATING TO THE ELECTRICAL DRAWINGS.
49. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGES AND HORSEPOWER RATING OF ALL MECHANICAL.
50. PRIOR TO INSTALLING ANY ELECTRICAL WORK, THE E.C. SHALL VERIFY EXACT LOCATIONS AND REQUIREMENTS ON THE JOB AND BU REFERENCE TO ARCHITECTURE, MECHANICAL AND EQUIPMENT SUPPLIERS DRAWINGS. SHOULD THERE BE ANY QUESTION OR PROBLEM CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
51. OUTLET AND JUNCTION BOXES SHALL BE SIZED PER CODE FOR THE QUANTITY OF WIRES THEY CONTAIN. SEE ARTICLE 370 OF N.E.C. PROVIDE ADDITIONAL BOXES AND EXTENSION RINGS AS REQUIRED.
52. E.C. SHALL COMPLY WITH CABLE BENDING RADIUS REQUIREMENTS PER CABLE MANUFACTURES SPECIFICATION.
53. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED; THE CONTRACTOR SHALL ROUTE CONDUIT AS REQUIRED BY THE CONDITIONS OF INSTALLATION.
54. ALL EQUIPMENT PROVIDED BY THE E.C. SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF THE INSTALLATION.
55. PLANS INDICATE THE NUMBER OF PHASE NATURAL AND GROUND CONDUCTORS WHERE MORE THAN THREE CONDUCTORS ARE TO BE INSTALLED IN A CONDUIT (THREE OR LESS CONDUCTORS ARE NOTE SHOWN). ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.
56. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, CIRCUITS SHALL CONSIST OF #12 PHASE AND GROUNDED (NEUTRAL CONDUCTORS) AND A #12 CU GROUND IN A 3/4" CONDUIT.
57. UNLESS SPECIFICALLY NOTED OTHERWISE, THE E.C. SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
58. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, CIMMUNICATIONS/DATA, CABLE TV, GAS AND WATER UTILITY PROVIDERS (BLUE STRIKE) AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING (PRIOR TO COMMENCING ANY WORK). DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL CODE TO THE PROJECT.
59. ANY AND ALL WIRE THAT CARRIES A CURRENT MUST BE IN A CONDUIT. (GROUNDING WIRE FOR LOOPS, HALOS, ETC., IS CONSIDERED NON-CURRENT CARRYING)

Red Lined Set
King Communications

OCT 16 2019

B+T GRP

BLUESTREAM

COX

VG0005BA_61LAB

33TM0055SMC

44.25 E CLARK AVE
LAS VEGAS, NV 89101

PROJECT NO:	113288.002
CHECKED BY:	RPS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	6/12/17	SMW	PRELIMINARY REVIEW
B	8/21/17	RPS	PRELIMINARY REVIEW
0	8/24/17	GEH	CONSTRUCTION
1	10/18/17	EAM	CONSTRUCTION
2	2/25/19	DKD	CONSTRUCTION

B&T ENGINEERING, INC.
12685
Expires 12/31/19

PROFESSIONAL ENGINEER - STATE OF NEVADA
CARL B. LOPEZ
Exp: 12/31/19
ELECTRICAL
No. 17929
2/25/19

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: E-1
SHEET OF 9

REVISION: 2