Attachment H

Project Renderings and Plans

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

CRAN_RLOS_CSTAM_003

CSTAM 03A

AT&T

City streetlight No. SCL0796 at the northwestern corner of W. Balboa Blvd. and 30th St., Newport Beach, CA 92663

LOCATION

@2016 Google Maps

EXISTING

PROPOSED

VIEW 1 | LOOKING SOUTHEAST

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

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CSTAM 03A

AT&T

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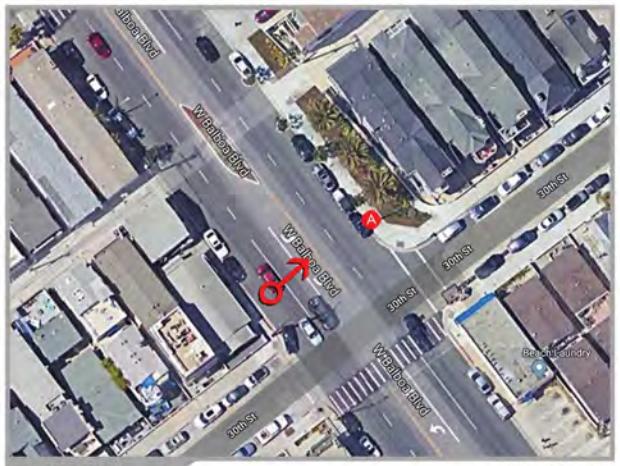

LOCATION

@2016 Google Maps

EXISTING

PROPOSED

VIEW 2 | LOOKING NORTHEAST

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

CRAN_RLOS_CSTAM_003

CSTAM 03A

AT&T

City streetlight No. SCL0796 at the northwestern corner of W. Balboa Blvd. and 30th St., Newport Beach, CA 92663

LOCATION

@2016 Google Maps

EXISTING

PROPOSED

VIEW 3 | LOOKING NORTH

SITE NAME: CSTAM_003A
SITE NUMBER: CRAN_RLOS_CSTAM_003
PROJECT: CRAN/ SMALL CELL/ PICO
USID: 213735 / FA: 14823072
PACE: MRLOS051977

at&t

POLE TYPE: (N) CONCRETE LIGHT POLE
POLE ID #: SLC0796
LATITUDE/LONGITUDE: 33.613872/ -117.931656
SITE ADDRESS: CITY STREETLIGHT NO. SCL0796 AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET, NEWPORT BEACH, CA 92663

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2016 CALIFORNIA ADMINISTRATIVE CODE
2. 2016 CALIFORNIA BUILDING CODE
3. 2016 CALIFORNIA ELECTRIC CODE
4. 2016 CALIFORNIA MECHANICAL CODE
5. 2016 CALIFORNIA PLUMBING CODE
6. 2016 CALIFORNIA FIRE CODE
7. ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
8. CITY/COUNTY ORDINANCES
9. NEC, NATIONAL ELECTRIC CODE
10. CALIFORNIA TRAFFIC CONTROL LANE CLOSURES MUTCD

HANDICAP REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 11038.

CODE COMPLIANCE

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 OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.

GENERAL NOTES

811 **Dig Alert**
Know what's below. Call before you dig.
CALIFORNIA SOUTH
Call Two Working Days Before You Dig:
811 / 800-422-4133

DIG ALERT

PUBLIC/PRIVATE:	PUBLIC RIGHT-OF-WAY
ADDRESS:	CITY STREETLIGHT NO. SCL0796 AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET NEWPORT BEACH, CA 92663
APPLICANT:	AT&T
ADDRESS:	1452 EDINGER AVE TUSTIN, CA 92780
LATITUDE (NAD 83):	33.613872
LONGITUDE (NAD 83):	-117.931656
LAT/LONG TYPE:	NAD-83
GROUND ELEVATION (NAVD 88):	18.82'
JURISDICTION:	CITY OF NEWPORT BEACH
CURRENT ZONING:	PUBLIC RIGHT OF WAY
PROPOSED USE:	UNMANNED TELECOMMUNICATIONS
POWER COMPANY:	SCE
ADDRESS:	1 INNOVATION WAY POMONA, CA 91768

PROJECT SITE INFORMATION

PROJECT MANAGER:
M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE, CA 92673

SAC/ZONING/PERMITTING:
M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE, CA 92673

RF ENGINEER:
AT&T
1452 EDINGER AVE.
TUSTIN, CA 92780
CONTACT: KARLO DAVINAGRACIA
EMAIL: KD2703@ATT.COM

ENGINEER:
M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE, CA 92673

SENIOR TECHNICAL PROJECT MANAGER:
AT&T
1452 EDINGER AVE.
TUSTIN, CA 92780
CONTACT: TED SUEKAWA
EMAIL: TS4994@ATT.COM

PROJECT TEAM

AREA MAPS

VICINITY MAP

LOCATION MAP

DIRECTIONS FROM AT&T OFFICE:

DIRECTION ARE TAKEN FROM
1452 EDINGER AVE.
TUSTIN, CA 92780

1. TURN LEFT ONTO EDINGER AVE
2. TURN LEFT ONTO STATE ROUTE 55 S
3. MERGE ONTO STATE ROUTE 55 S
4. CONTINUE ONTO NEWPORT BLVD.
5. TURN RIGHT ONTO 32ND ST
6. TURN LEFT ONTO W BALBOA BLVD.

DESTINATION WILL BE ON THE LEFT.

CITY STREETLIGHT NO. SCL0796 AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET NEWPORT BEACH,CA 92663

DRIVING DIRECTIONS

CITY NOTE

1. TRAFFIC CONTROL PLANS ARE NOT TO BE USED FOR CONSTRUCTION AND NEW TCP WILL BE SUBMITTED AND APPROVED AS PART OF THE ENCROACHMENT PERMIT APPLICATION.

SPECIAL INSPECTION

CONCRETE FOUNDATION (CONTINUOUS INSPECTION).

IF USING 11"x17" PLOT, DRAWING WILL BE HALF SCALE

CONSTRUCTION DRAWING

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.

APPROVED BY:	INITIALS:	DATE:
AT&T RF ENGINEER:		
AT&T OPERATIONS:		
SITE ACQUISITION MANAGER:		
PROJECT MANAGER:		
ZONING VENDOR:		
LEASING VENDOR:		
CONSTRUCTION MANAGER:		
A/E MANAGER:		
PROPERTY OWNER:		
UTILITY MANAGER:		

APPROVALS

AT&T PROPOSES TO INSTALL A NEW WIRELESS INSTALLATION LOCATED IN THE PUBLIC RIGHT OF WAY TO (N) CONCRETE LIGHT POLE.

4G SCOPE WILL CONSIST OF THE FOLLOWING:

- AT&T TO REMOVE: (1) EXISTING CONCRETE STREETLIGHT
- AT&T TO INSTALL: (1) 29'-3" CONCRETE STREETLIGHT
- AT&T TO INSTALL: (4) NEW AT&T REMOTE RADIO UNITS
- AT&T TO INSTALL: (1) NEW AT&T OMNI-DIRECTIONAL ANTENNA
- AT&T TO INSTALL: (1) NEW AT&T EQUIPMENT SHROUD
- AT&T TO INSTALL: (1) NEW RAYCAP DISCONNECT
- AT&T TO INSTALL: (1) NEW HANDHOLE

PROJECT DESCRIPTION

SHEET NO:	SHEET TITLE	SHEET NO:	SHEET TITLE
T-1	TITLE SHEET	SCE-1	SCE FINAL DESIGN
T-2	1-A ACCURACY CERTIFICATION	SCE-2	SCE FINAL DESIGN
GN-1	GENERAL NOTES	SCE-3	SCE FINAL DESIGN
C-1	TOPOGRAPHIC SURVEY	E-1	ELECTRICAL & GROUNDING DETAILS
A-1	SITE PLAN		
A-2	ELEVATIONS	TC-1	TRAFFIC CONTROL PLAN
A-3	ELEVATIONS		
A-4	SITE IMAGE		
G-1	DETAILS		
D-2	NEWPORT BEACH DETAILS		
D-3	NEWPORT BEACH DETAILS		
D-4	LUMINAIRE SPECS		
S-1	POLE DETAILS		
S-2	ADAPTER PLATE DETAILS		

DRAWING INDEX

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

DO NOT SCALE DRAWINGS

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY:	EG
CHECKED BY:	MM

REV	DATE	DESCRIPTION
D	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	08/16/2019	100% CD'S REVISED
B	09/21/2018	100% CONSTRUCTION
A	09/17/2018	90% CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
LOVALL A. WHARTON
C50547
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/09/2020
EXPIRATION DATE: 06/30/2021

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.

SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796 AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET NEWPORT BEACH, CA, 92663

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

NATIONWIDE SURVEYING INC.

NOVEMBER 18, 2019

1-A ACCURACY CERTIFICATION
AT&T CRAN_RLOS_CSTAM_003

DATE OF SURVEY: NOVEMBER 15, 2019
SITE NAME: CRAN_RLOS_CSTAM_003
TYPE: STREET LIGHT
SITE ADDRESS: CITY STREETLIGHT No.SCL0796
AT THE NORTHWESTERN CORNER
OF WEST BALBOA BOULEVARD
AND 30TH STREET

I hereby certify that the latitude and longitude of the following areas are as follows:

GEOGRAPHIC COORDINATES:
(NORTH AMERICAN DATUM 1983)

	LATITUDE	LONGITUDE	
EXISTING STREET LIGHT POLE:	33° 36' 49.94" N	117° 55' 53.96" W	(NAD 83)
	33.613872	-117.931656	(NAD 83)

I further certify that the elevations shown hereon are Above Mean Sea Level, North American Vertical Datum 1988 (NAVD 88)

ELEVATIONS (NAVD 88)

GROUND ELEVATION @ EXISTING STREET LIGHT POLE LOCATION = 8.82 FEET A.M.S.L.
TOP ELEVATION OF EXISTING STREET LIGHT POLE = 36.10 FEET A.M.S.L.
TOP ELEVATION OF EXISTING STREET LIGHT SENSOR (HIGHEST POINT) = 38.98 FEET A.M.S.L.

MEASURE HEIGHTS

HEIGHT OF EXISTING STREET LIGHT POLE = 27'-3" A.G.L.
HEIGHT OF EXISTING STREET LIGHT SENSOR (HIGHEST POINT) = 30'-2" A.G.L.

The horizontal accuracy for the Latitude and Longitude is ± 5 feet.
The vertical accuracy for the Elevation is ± 1 feet.
The measured height of the features located is ± 1 foot.
The Geographic Coordinates are based upon the State Plane Coordinate System of 1983 (NAD 83), California Zone 6 and were established by static GPS Post Processing method, utilizing NGS GPS Monuments.

The Smartnet North America C.O.R.S. "CALK"

Elevation = 366.53 Feet (NAVD 88).

LICENSED LAND SURVEYOR
CHARLES L. SCOTT III
LS 8742
STATE OF CALIFORNIA

CHARLES L. SCOTT III, PLS
LS 8742 EXP. 12/31/2020

NATIONWIDE SURVEYING INC. 18520 WARREN ROAD RIVERSIDE CALIFORNIA 92508 909.841.4235

1-A ACCURACY CERTIFICATION 1

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
F	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	09/16/2019	100% CD'S REVISED
B	09/21/2018	100% CONSTRUCTION
A	09/17/2018	90% CONSTRUCTION

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SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
1-A ACCURACY CERTIFICATION

SHEET NUMBER
T-2

NEW ANTENNA
EXISTING ANTENNA
GRIPPING ROD
GROUND BUS BAR
MECHANICAL GRND CONN
CADWELD
GROUND ACCESS WELL
ELECTRIC BOX
TELEPHONE BOX
LIGHT POLE
FND MONUMENT
SPOT ELEVATION
SET POINT
REVISION
GRID REFERENCE
DETAIL REFERENCE
ELEVATION REFERENCE
SECTION REFERENCE

DROUT OR HEATER
(E) BRICK
(E) MASONRY
CONCRETE
EARTH
GRAVEL
PLYWOOD
SAND
WOOD CONT
WOOD BLOCKING
STEEL
CENTERLINE
CURB/GUTTER
PROPERTY/LEASE LINE
MATCH LINE
WORK POINT
GROUND CONDUCTOR
COAXIAL CABLE
OVERHEAD SERVICE CONDUCTORS
CHAIN LINK FENCING
OVERHEAD TELEPHONE/OVERHEAD POWER
OVERHEAD TELEPHONE LINE
OVERHEAD POWER LINE
ELECTRICAL RUN
ELECTRICAL/TELCO RUN

TELCO (FIBER) RUN
UNDERGROUND TELCO RUN
UNDERGROUND ELECTRICAL RUN
UNDERGROUND ELECTRICAL/TELCO RUN
GROUNDING CONDUCTOR
FUSE SIZE AND TYPE AS INDICATED
SAFETY SWITCH, 2P-240V-60A W/NMA FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB
MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE NEMA 3R ENCLOSURE
LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WG4232T
LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/60W SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM2232T
LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NR9-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NR9-121
EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB
COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG, #PRC
EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HEB-50-2-#181
LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #RM-100-06-1
LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #GL-1505
LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT. #MC-01175H-156
5/8" x 10'-0" (C) GND ROD 30" MIN BELOW GRADE

5/8" x 10'-0" (C) GND ROD IN TEST WELL 30" MIN. BELOW GRADE
CHEMICAL GROUND ROD (VIP GROUND ROD)
CADWELD CONNECTION
MECHANICAL CONNECTION
HALO GROUND CONNECTION
CIRCUIT BREAKER
UTILITY METER BASE
TRANSFORMER
STEPDOWN TRANSFORMER
RECEPTACLE, 2P-5W-125V-15A, DUPLEX GROUND TYPE, HUBBELL CATALOG #5352
TOGGLE SWITCH, 1P-125V-15A HUBBELL CATALOG #HBL 1501CN
TOGGLE SWITCH, 1P-120V-15A, "WP"
IONIZATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC GENTEX PART NO. 7100F
POLE
(N) POLE MOUNTED XFMER
(E) POLE MOUNTED XFMR
(N) PAD MOUNTED XFMER
(E) PAD MOUNTED XFMER

ABBREVIATIONS 1

A	AMPERE	EMT	ELECTRICAL METALLIC TUBING	MTD	MOUNTED	T.O.F	TOP OF FOUNDATION
A.B.	ANCHOR BOLT	E.N.	EDGE NAIL	MTG.	MOUNTING	T.O.P	TOP OF PLATE (PARAPET)
ABV.	ABOVE	ENCL.	ENCLOSURE	MTL.	METAL	T.O.S.	TOP OF STEEL
AC	ALTERNATE CURRENT/AIR CONDITIONER	ENG.	ENGINEER	MTS	MANUAL TRANSFER SWITCH	T.O.W.	TOP OF WALL
ACCA	ANTENNA CABLE COVER ASSEMBLY	EQ.	EQUAL	N	NEUTRAL	TYP.	TYPICAL
ADD'L	ADDITIONAL	EXIST.(E)	EXISTING	(N)	NEW	U.G.	UNDER GROUND
A.F.F.	ABOVE FINISHED FLOOR	EXP.	EXPANSION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	U.L.	UNDERWRITERS LABORATORY INC.
A.F.G.	ABOVE FINISHED GRADE	EXT.	EXTERIOR	NO.(#)	NUMBER	UMTS	UNIVERSAL MOBIL TECH. SYS. (3G MOBILE TECH.)
A.G.L.	ABOVE GROUND LEVEL	FAB.	FABRICATION(OR)	N.T.S.	NOT TO SCALE	U.N.O.	UNLESS NOTED OTHERWISE
AIC	AMPERE INTERRUPTING CAPACITY	FAC.	FACTOR	OBSF	OPTICAL BASEBAND INTERFACE	V	VOLT
ALUM	ALUMINUM	F/A	FIRE ALARM	OH	OVERHEAD	VAC	VOLT ALTERNATING CURRENT
ALT.	ALTERNATE	F.F.	FINISH FLOOR	O.C.	ON CENTER	V.I.F	VERIFY IN FIELD
ANT.	ANTENNA	F.G.	FINISH GRADE	OPNG.	OPENING	W	WATT OR WIRE
APPROX	APPROXIMATE(LY)	FIN.	FINISH(ED)	P	POLE	WD	WIDE(WIDTH)
ARCH.	ARCHITECT(URAL)	FLR.	FLOOR	P/C	PRECAST CONCRETE	W/	WITH
AT	AMPERE TRIP	FLUOR.	FLUORESCENT	PCS	PERSONAL COMMUNICATION SERVICES	W/O	WITHOUT
AWG.	AMERICAN WIRE GAUGE	FDN.	FOUNDATION	PH	PHASE	WD.	WOOD
BATT.	BATTERY	F.O.C.	FACE OF CONCRETE	PLY.	PLYWOOD	W.P.	WEATHERPROOF
BD.	BOARD	F.O.M.	FACE OF MASONRY	PNLBD	PANELBOARD	WT	WEIGHT
BLDG.	BUILDING	F.O.S.	FACE OF STUD	PPC	POWER PROTECTION CABINET	XFER	TRANSFER
BLK.	BLOCK	F.O.W.	FACE OF WALL	PRC	PRIMARY RADIO CABINET	XFMR	TRANSFORMER
BLKG.	BLOCKING	F.S.	FINISH SURFACE	PRI	PRIMARY	XLPE	CROSS-LINK POLYETHYLENE
BM.	BEAM	FT.(')	FOOT (FEET)	P.S.F.	POUNDS PER SQUARE FOOT	℄	CENTERLINE
B.N.	BOUNDARY NAILING	FTG.	FOOTING	P.S.I.	POUNDS PER SQUARE INCH	⅊	PLATE, PROPERTY LINE
BR.	BRANCH	FU	FUSE	P.T.	PRESSURE TREATED		
BRKR	BREAKER	G	GROUND	PWR.	POWER (CABINET)		
BTCW.	BARE TINNED COPPER WIRE	GR	GROWTH (CABINET)	QTY	QUANTITY		
BTS.	BASE TRANSMISSION SYSTEM	GA	GAUGE	RAD.(R)	RADIUS		
B.O.F.	BOTTOM OF FOOTING	GEN.	GENERATOR	RBS	RADIO BASE STATION (BASE STATION 3G NETWORKS)		
B/U	BACK-UP CABINET	GI.	GALVANIZE(D)				
C	CONDUIT	G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	RCPT.	RECEPTACLE		
CAB.	CABINET	GLB. (GLU-LAM)	GLUE LAMINATED BEAM	REF.	REFERENCE		
CANT.	CANTILEVER(ED)	GND	GROUND	REINF.	REINFORCEMENT(ING)		
CB	CIRCUIT BREAKER	GPS	GLOBAL POSITIONING SYSTEM	REQ'D	REQUIRED		
CDMA	CODE-DIVISION MULTIPLE ACCESS (2G & 3G)	GRND.	GROUND	RGS	RIGID GALVANIZED STEEL		
COUK	CONSOLIDATION DISTRIBUTION UNIT KIT	GSM	GLOBAL SYSTEM MOBILE (2G+ MOBILE TECH.)	ROW	RIGHT OF WAY		
C.I.P.	CAST IN PLACE	HDWC	HARD DRAWN COPPER WIRE	RRU	REMOTE RADIO UNIT (RADIO TRANSCEIVER)		
CKT.	CIRCUIT	HDR.	HEADER				
CLG.	CEILING	HGR	HANGER	RX-MT	RECEIVER MAIN INTERFACE TRAY		
CLR.	CLEAR	HPS	HIGH PRESSURE SODIUM	SAF	SAFETY		
CMU	CONCRETE MASONRY UNIT (JAMB BLOCKS)	HT	HEIGHT	SCH.	SCHEDULE		
COL.	COLUMN	ICGB	ISOLATED COPPER GROUND BUS	SDBC	SOFT DRAWN BARE COPPER		
CONC.	CONCRETE	IN.(")	INCH(ES)	SEC	SECONDARY		
CONN.	CONNECTION(OR)	INT	INTERIOR	SHT	SHEET		
CONST.	CONSTRUCTION	LB (#)	POUND(S)	SIM	SIMILAR		
CONT.	CONTINUOUS	L.B.	LAG BOLTS	S.N.	SOLID NEUTRAL		
C/P	CURB FACE	L.F.	LINEAR FEET (FOOT)	SPEC	SPECIFICATION(S)		
¢	PENNY (NAILS)	LG	LENGTH	SQ.	SQUARE		
DBL.	DOUBLE	L	LONG(ITUDINAL)	S.S.	STAINLESS STEEL		
DC	DIRECT CURRENT	LPS	LOW PRESSURE SODIUM	STD.	STANDARD		
DEM.	DEMAND	LTE	LONG TERM EVOLUTION (4G MOBILE TECH.)	STL	STEEL		
DEPT	DEPARTMENT	MAS.	MASONRY	STRUC	STRUCTURAL		
D.F.	DOUGLAS FIR	MAX.	MAXIMUM	SURF	SURFACE		
DIA.	DIAMETER	M.B.	MACHINE BOLT	SW	SWITCH		
DIAG	DIAGONAL	MECH.	MECHANICAL	TEL	TELEPHONE		
DIM.	DIMENSION	MFR	MANUFACTURER	TEMP	TEMPORARY		
DWG.	DRAWING(S)	MIN.	MINIMUM	THK	THICK(NESS)		
DWL.	DOWEL(S)	MISC	MISCELLANEOUS	TMAS	TOWER MOUNTED AMPLIFIER (DC SUPPLY VOLTAGE)		
EA.	EACH	MLO	MAIN LUGS ONLY				
EGR	EMERGENCY GENERATOR RECEPTACLE			T.N.	TOE NAIL		
EL.	ELEVATION			T.O.A	TOP OF ANTENNA		
ELEC.	ELECTRICAL			T.O.C	TOP OF CURB		
ELEV.	ELEVATOR						

ABBREVIATIONS 2

NEWPOINT BEACH GENERAL NOTES 3

1. AN APPROVED ENCROACHMENT PERMIT IS REQUIRED FOR ALL WORK ACTIVITIES WITHIN THE PUBLIC RIGHT-OF-WAY.
2. CONTRACTOR SHALL PROVIDE LANE CLOSURE PLANS PER WATCH HANDBOOK AND STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARDS.
3. CONTRACTOR TO RETURN (E) STREET LIGHT AND LIGHT ARM TO THE CITY OF NEWPORT BEACH UTILITIES YARD. IF DAMAGED DURING THE REMOVAL, CONTRACTOR SHALL BE REQUIRED TO PURCHASE AND DELIVER A REPLACEMENT. CITY OF NEWPORT BEACH UTILITIES YARD. 949 W. 15th STREET NEWPORT BEACH CA 92663/ CONTRACTOR SHALL DISPOSE OF THE EXISTING STREET LIGHT POLE AND ARMS IF UNWANTED BY THE CITY FOR ANY REASON.
4. WHERE REMOVED OR DAMAGED BY CONSTRUCTION, ALL CURB, GUTTER AND SIDEWALK SHALL BE REPLACED IN ENTIRE SECTIONS BETWEEN EXPANSION JOINTS. NO SAW CUTTING AND PARTIAL PATCHING SHALL BE PERMITTED. ALL CONSTRUCTION DETAILS FOR REPLACEMENT SECTIONS SHALL BE PER CITY OF NEWPORT BEACH STANDARD DRAWINGS.
5. THE CONTRACTOR SHALL REPAIR, REPLACE OR RE-ROUTE ALL LANDSCAPE, IRRIGATION LINES AND FIXTURES IN KIND INCLUDING LINE SIZE, HEAD TYPE, SPACING AND CONTROL WHERE DAMAGED BY CONSTRUCTION TO THE SATISFACTION OF THE CITY OF NEWPORT BEACH.
6. THE CONTRACTOR SHALL REPLACE ALL EXISTING GROUNDCOVER, INCLUDING SAND AND ALL OTHER LANDSCAPING INCLUDING TURF, SHRUBS, AND/ OR TREES IN KIND INCLUDING SIZE, SPECIES AND SPACING WHERE DAMAGED BY NEW CONSTRUCTION TO THE SATISFACTION OF THE CITY OF NEWPORT BEACH.
7. ANY LANE CLOSURES SHALL STRICTLY ABIDE THE CALIFORNIA MUTED FOR TRAFFIC CONTROL.

GENERAL NOTES 4

1. THE FACILITY IS AN UNMANNED DIGITAL TELECOMMUNICATION FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
7. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
8. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH ULL LISTED AND FIRE CODE APPROVED MATERIALS.
9. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING (SHEET LS1 OR SHEET C-1), SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ENGINEER.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF AT&T.
13. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
14. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ENGINEER, IF NECESSARY, BEFORE PROCEEDING.
15. BEFORE ORDERING AND/OR BEFORE FABRICATING/CONSTRUCTING/INSTALLING ANY ITEMS, VERIFY THE TYPES AND QUANTITIES.
16. CONTRACTOR SHALL PROVIDE SITE FOREMAN WITH A CELL/LAB PHONE AND PAGER, AND KEEP SAME ON SITE WHENEVER PERSONNEL ARE ON SITE.
17. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
18. CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
19. CONTRACTOR IS TO EXCAVATE 6" BELOW EXISTING GRADE AND SPRAY WITH WEED CONTROL. REPLACE WITH CLASS II AGGREGATE BASE AND CRUSHED WASHED ROCK, AS SPECIFIED ON SITE PLAN.
20. CONTRACTOR SHALL PROVIDE TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
21. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR THE FABRICATION OF MATERIALS TO BE INSTALLED AT THE SITE, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INCLUDING AS-BUILT DIMENSIONS OF EXISTING STRUCTURES OR STRUCTURAL ELEMENTS HAVING A BEARING ON THE SCOPE OF THE WORK TO BE PERFORMED. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE DIMENSIONS OR CONDITIONS FOUND TO BE EXISTING IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN DESIGN RESOLUTION PRIOR TO PROCEEDING WITH THE PORTION(S) OF THE WORK AFFECTED. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO SO NOTIFY THE ENGINEER AND OBTAIN RESOLUTION BEFORE PROCEEDING.
22. DIRTY OR DAMAGED STREETS SIGNS SHALL BE REPLACED BY THE CONTRACTOR.

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-9624

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
F	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	08/16/2019	100% CD'S REVISED
B	08/21/2018	100% CONSTRUCTION
A	08/17/2018	90% CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
LOVALL A. WHARTON
C50547
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/09/2020
EXPIRATION DATE: 06/30/2021

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.

SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

VICINITY MAP

TITLE REPORT

NOT APPLICABLE (RIGHT-OF-WAY). THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. RIGHT OF WAY LINES SHOWN WERE PLOTTED PER DATA SHOWN ON RECORD SUBDIVISION MAPS. NO ATTEMPT WAS MADE TO PLOT WRITTEN OR UNWRITTEN EASEMENTS OR SETBACK LINES.

LEGAL DESCRIPTION

NOT APPLICABLE (RIGHT-OF-WAY).

ASSESSOR'S PARCEL NO.

NOT APPLICABLE (RIGHT-OF-WAY).

EASEMENT NOTES:

NOT APPLICABLE (RIGHT-OF-WAY).

BENCH MARK

THE SMARTNET NORTH AMERICA C.O.R.S. "CALK"
ELEVATION = 366.53 FEET (NAVD 88)

BASIS OF BEARINGS

THE BASIS OF BEARING FOR THIS SURVEY IS THE CALIFORNIA COORDINATES SYSTEM (CCS 83), ZONE 6, 1983 DATUM.

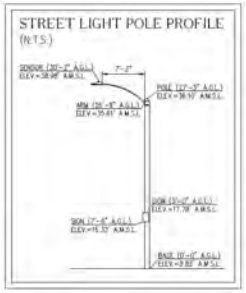
SURVEYOR'S NOTES:

THIS IS NOT A BOUNDARY SURVEY. THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

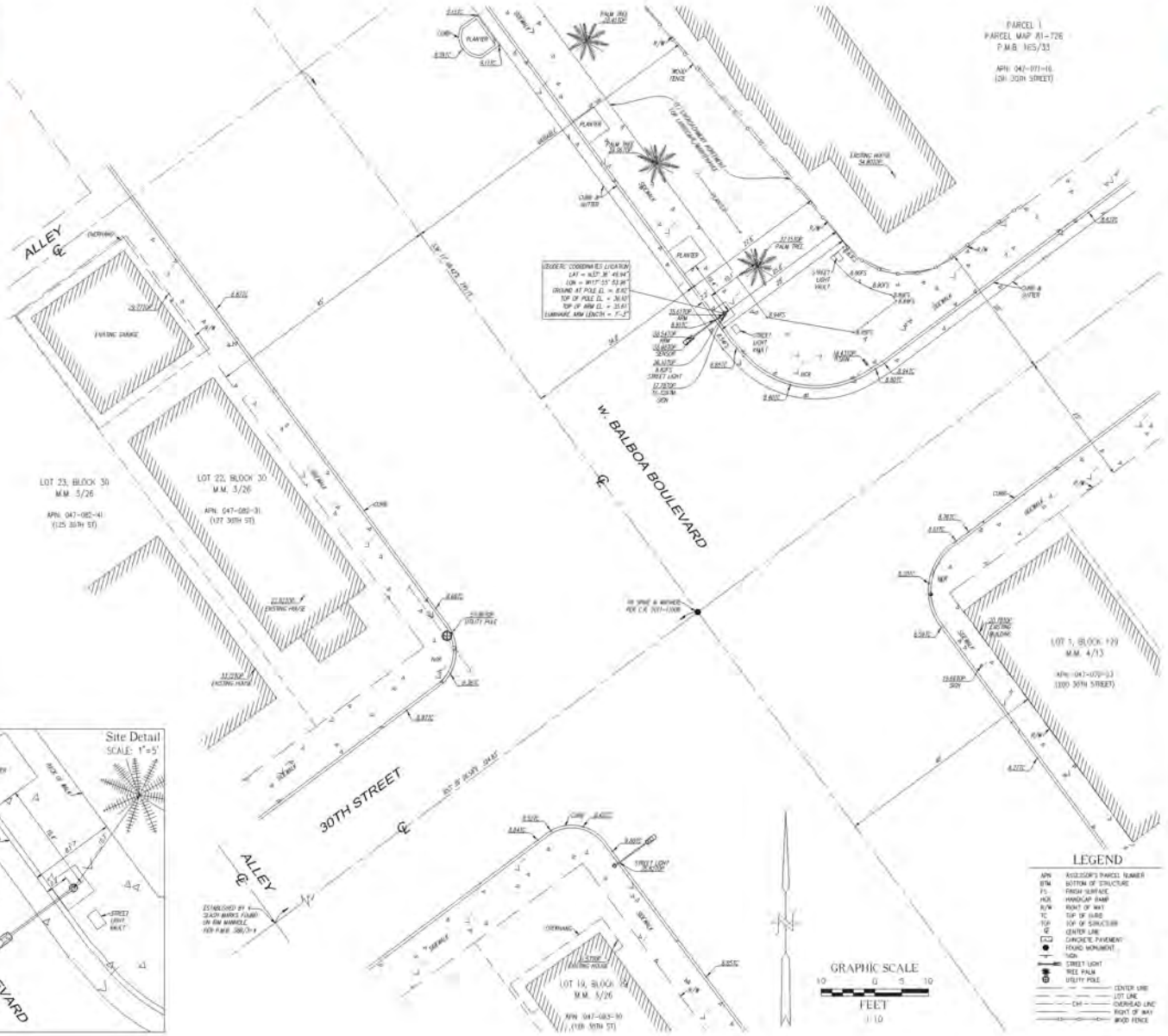
DATE OF SURVEY

NOVEMBER 15, 2019

STREET LIGHT POLE PROFILE
(N.T.S.)



Site Detail
SCALE: 1"=5'



SITE SURVEY

at&t

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6624

REV	DATE	DESCRIPTION	BY

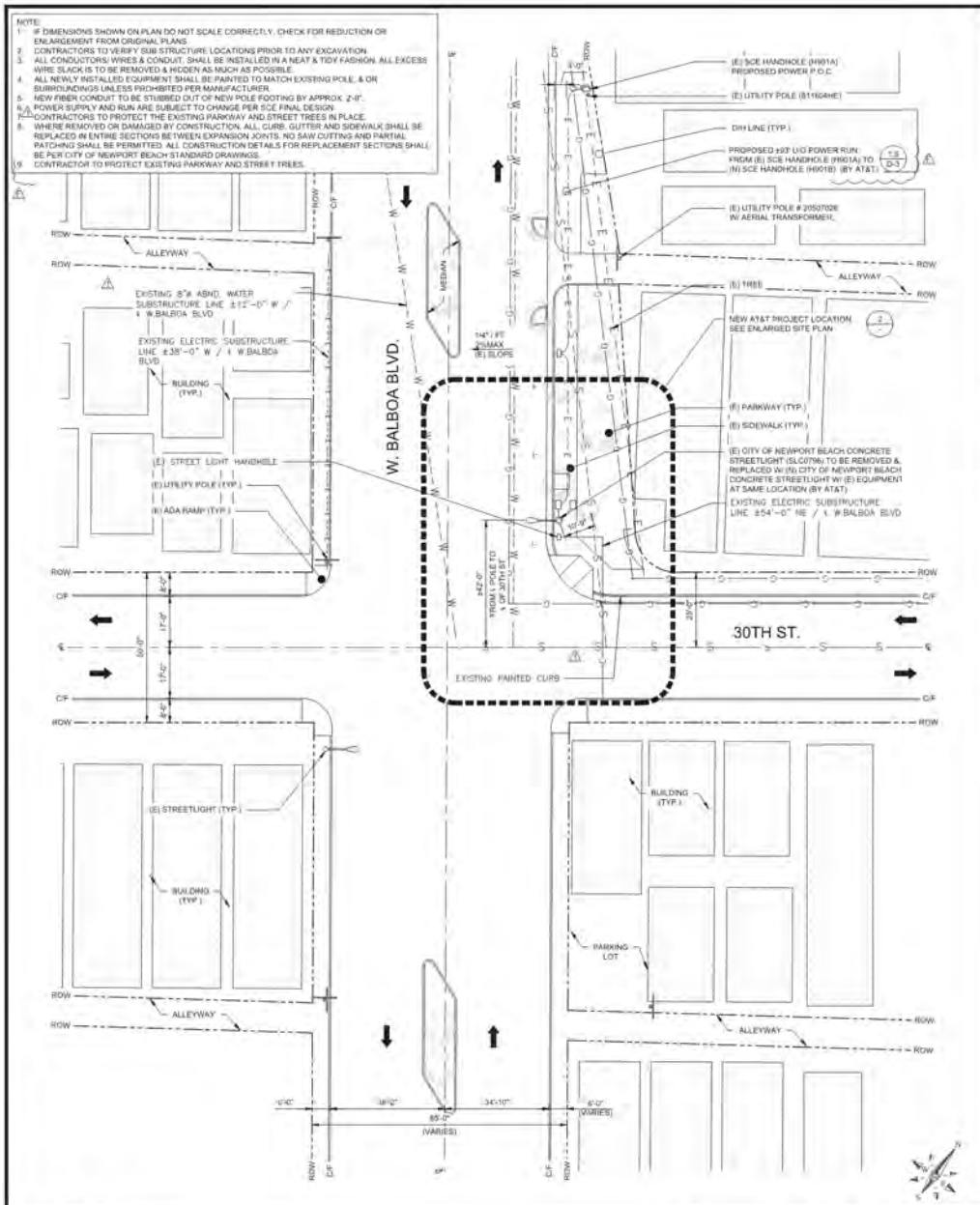
CHARLES L. SCOTT III, PLS 8742
EXP. 12/31/2020 Registration No. in the State of California

CRAN_RLOS_
CSTAM_003
CITY STREETLIGHT No.SCL0796
AT THE NORTHWESTERN
CORNER OF WEST BALBOA
BOULEVARD AND 30TH STREET

SHEET TITLE
TOPOGRAPHIC SURVEY

SHEET NUMBER
C-1

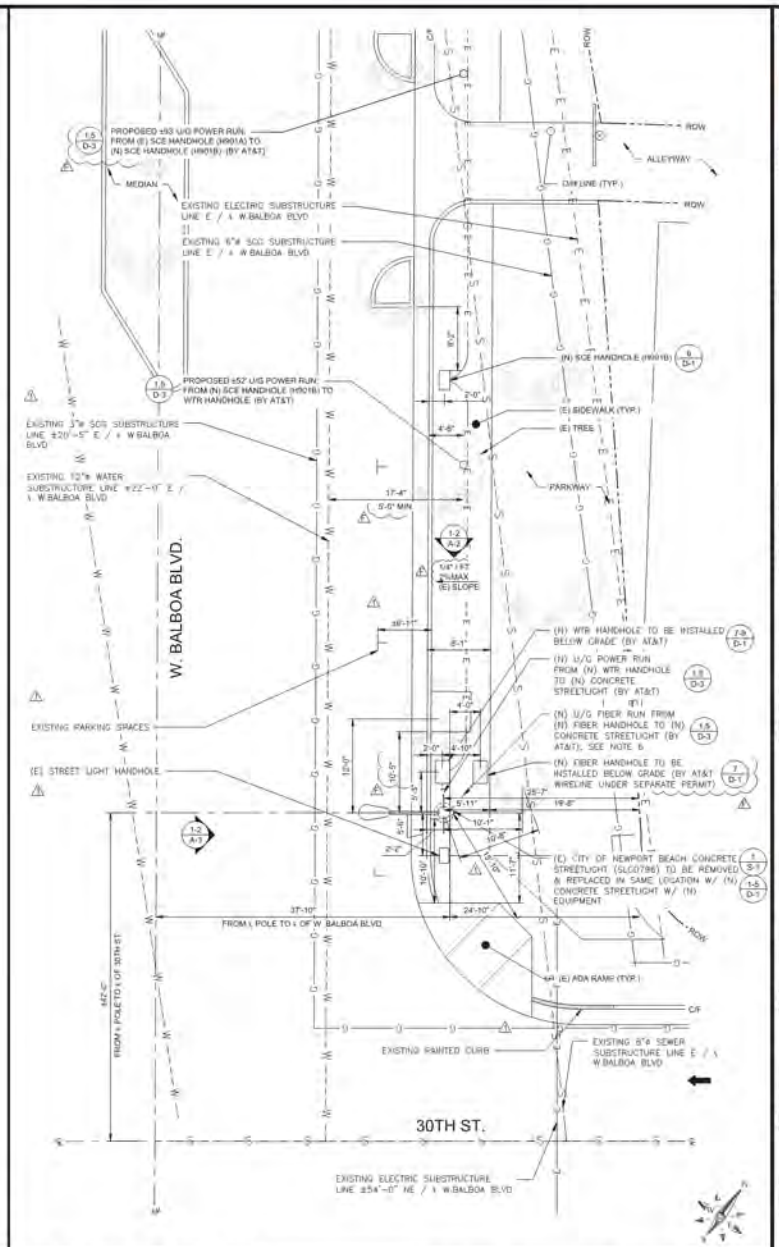
NOTE:
1. IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.
2. CONTRACTORS TO VERIFY SUB-STRUCTURE LOCATIONS PRIOR TO ANY EXCAVATION.
3. ALL CONDUCTORS/ WIRES & CONDUIT, SHALL BE INSTALLED IN A NEAT & TIDY FASHION. ALL EXCESS WIRE SLACK IS TO BE REMOVED & HIDDEN AS MUCH AS POSSIBLE.
4. ALL NEWLY INSTALLED EQUIPMENT SHALL BE PAINTED TO MATCH EXISTING POLE, & OR SURROUNDINGS UNLESS PROHIBITED PER MANUFACTURER.
5. NEW FIBER CONDUIT TO BE STUBBED OUT OF NEW POLE FOOTING BY APPROX. 2'-0".
6. POWER SUPPLY AND RUN ARE SUBJECT TO CHANGE PER SCE FINAL DESIGN.
7. CONTRACTORS TO PROTECT THE EXISTING PARKWAY AND STREET TREES IN PLACE.
8. WHERE REMOVED OR DAMAGED BY CONSTRUCTION, ALL, CURB, GUTTER AND SIDEWALK SHALL BE REPLACED IN ENTIRE SECTIONS BETWEEN EXPANSION JOINTS. NO SAW CUTTING AND PARTIAL PATCHING SHALL BE PERMITTED. ALL CONSTRUCTION DETAILS FOR REPLACEMENT SECTIONS SHALL BE PER CITY OF NEWPORT BEACH STANDARD DRAWINGS.
9. CONTRACTOR TO PROTECT EXISTING PARKWAY AND STREET TREES.



SITE PLAN

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"

1



ENLARGED SITE PLAN

24"x36" SCALE: 1/8" = 1'-0"
11"x17" SCALE: 1/16" = 1'-0"

2

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

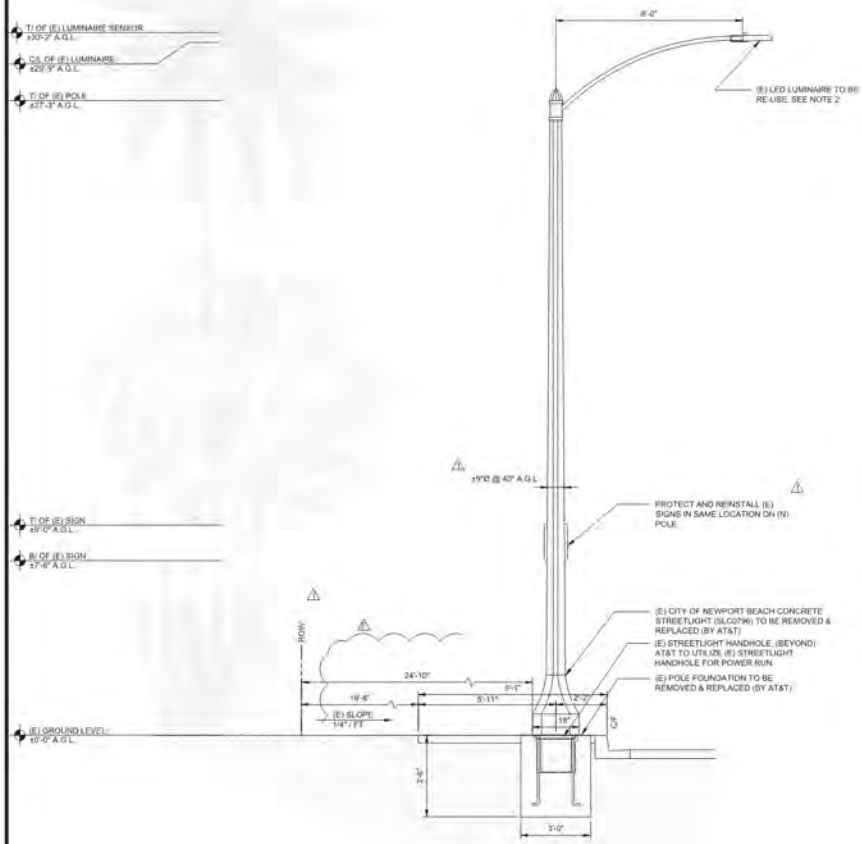
ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY:	EG
CHECKED BY:	MM

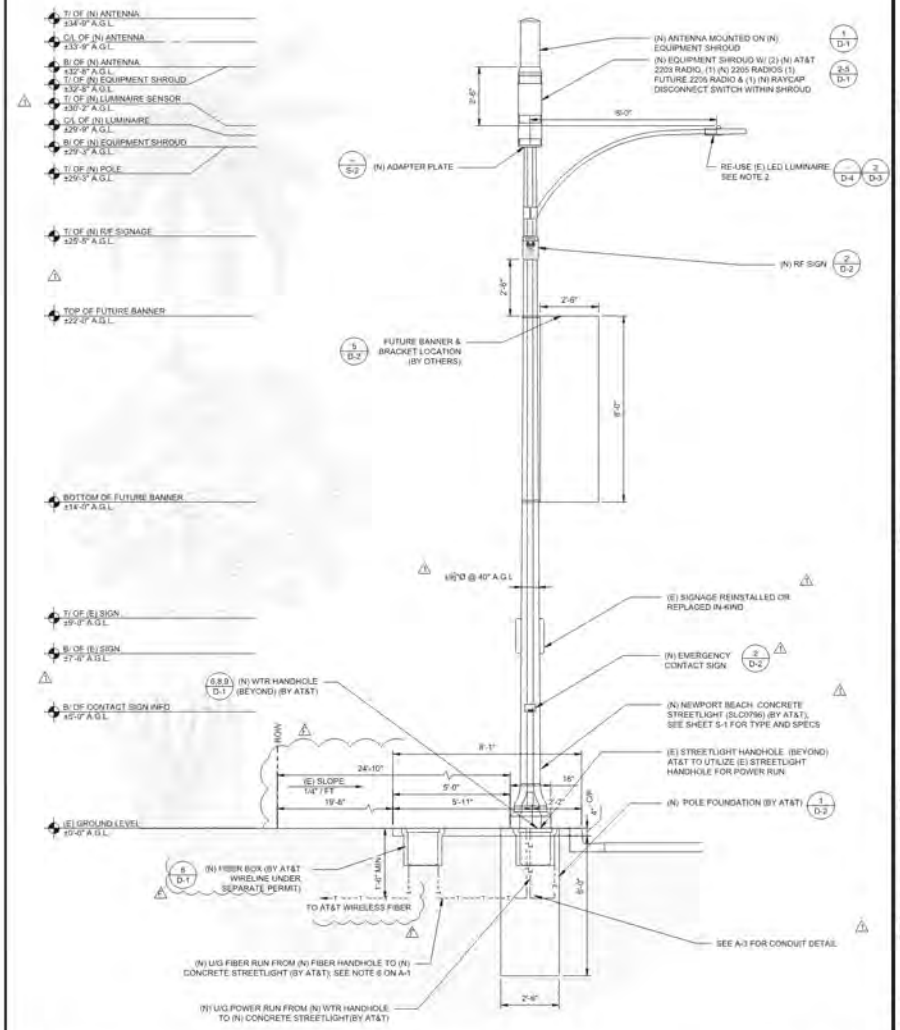
REV	DATE	DESCRIPTION

NOTE:
1. CONTRACTOR/AT&T SHALL BE RESPONSIBLE FOR SAFE REMOVAL & DELIVERY OF EXISTING STREET LIGHT POLE TO C.N.B. UTILITIES YARD. CONTRACTOR/AT&T SHALL REPLACE WITH NEW POLE IF DAMAGED IN THE REMOVAL PROCESS AT NO COST TO THE "CITY"
2. ANY WORK TO EXISTING WIRES, CONDUIT, PULL BOXES SHALL MEET "CITY" STANDARDS & APPROVED BY "CITY" STAFF, PUBLIC WORKS & UTILITIES STAFF.
3. CONTRACTOR/AT&T SHALL REMOVE ALL ABANDON CONDUITS, WIRES, BOXES & RESTORE SIDEWALK TO NEW.
4. CONTRACTOR/AT&T SHALL DISPOSE OF EXISTING STREET LIGHT POLE IF UNWANTED FOR ANY REASON.



EXISTING NORTHWEST ELEVATION 24"x36" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0" 2

NOTE:
1. ALL NEW EQUIPMENT SHALL BE PAINTED TO MATCH (N) CONCRETE LIGHT POLE.
2. RE-USE (E) LED LUMINAIRE. IF NOT LED, REPLACE WITH (N) LED LUMINAIRE APPROVED BY THE CITY.



NEW NORTHWEST ELEVATION 24"x36" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0" 1

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DRAWN BY:	EG
CHECKED BY:	MM

REV	DATE	DESCRIPTION
F	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	09/16/2019	100% CD'S REVISED
B	09/21/2018	100% CONSTRUCTION
A	09/17/2018	90% CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER LOVALL A. WHARTON C50547 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 03/09/2020
EXPIRATION DATE: 06/30/2021

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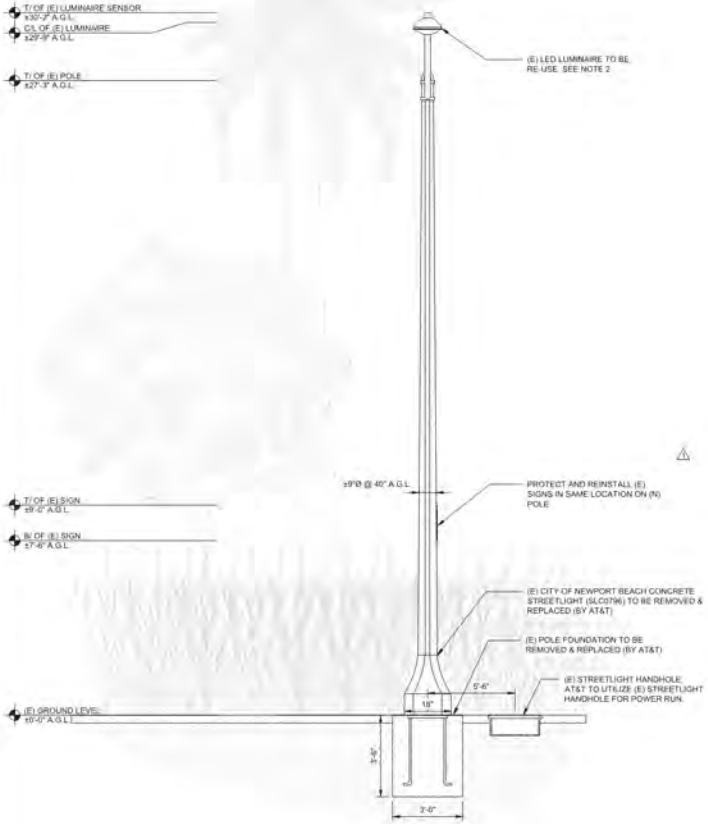
SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-2

NOTE:
1. CONTRACTOR/AT&T SHALL BE RESPONSIBLE FOR SAFE REMOVAL & DELIVERY OF EXISTING STREET LIGHT POLE TO C.N.B. UTILITIES YARD. CONTRACTOR/AT&T SHALL REPLACE WITH NEW POLE IF DAMAGED IN THE REMOVAL PROCESS AT NO COST TO THE "CITY"
2. ANY WORK TO EXISTING WIRES, CONDUIT, PULL BOXES SHALL MEET "CITY" STANDARDS & APPROVED BY "CITY" STAFF, PUBLIC WORKS & UTILITIES STAFF
3. CONTRACTOR/AT&T SHALL REMOVE ALL ABANDON CONDUITS, WIRES, BOXES & RESTORE SIDEWALK TO NEW.
4. CONTRACTOR/AT&T SHALL DISPOSE OF EXISTING STREET LIGHT POLE IF UNWANTED FOR ANY REASON.

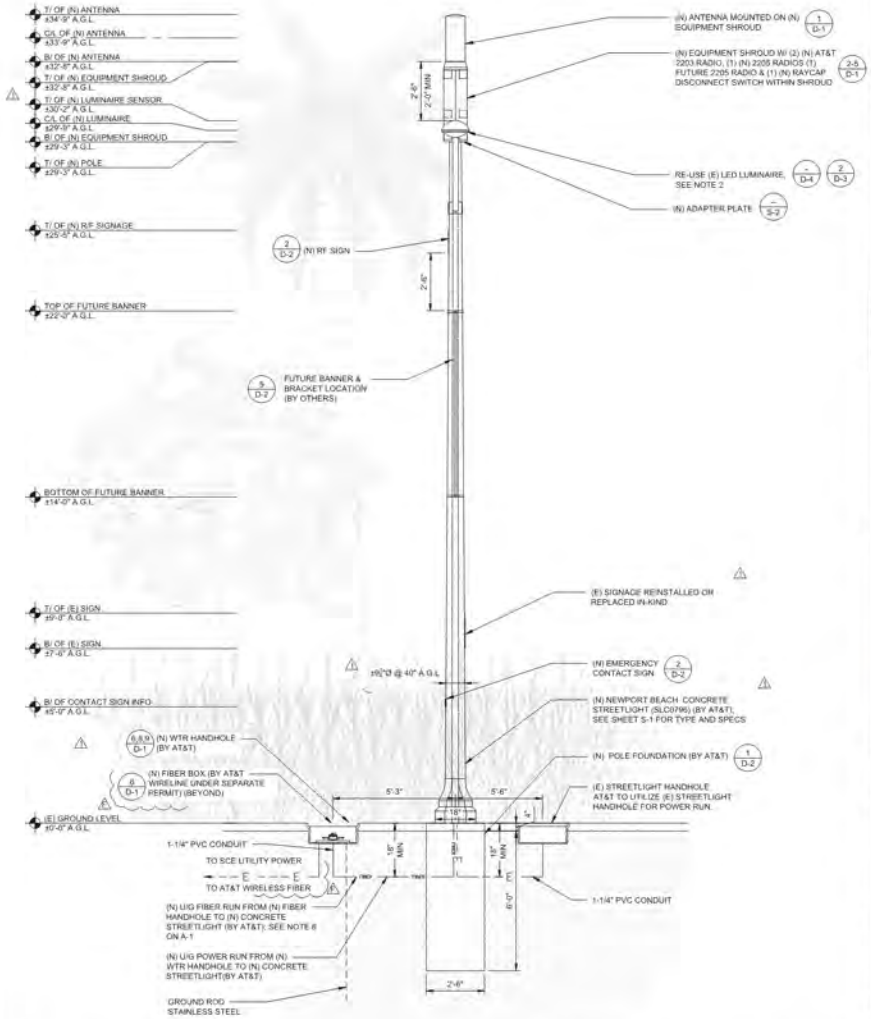


EXISTING SOUTHWEST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"

2

NOTE:
1. ALL NEW EQUIPMENT SHALL BE PAINTED TO MATCH (N) CONCRETE LIGHT POLE
2. RE-USE (E) LED LUMINAIRE. IF NOT LED, REPLACE WITH (N) LED LUMINAIRE APPROVED BY THE CITY.



NEW SOUTHWEST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"

1

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IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-6824

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
2	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	09/16/2019	100% CD'S REVISED
B	09/21/2018	100% CONSTRUCTION
A	09/17/2018	90% CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
LOYALL A. WHARTON
C50547
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/09/2020
EXPIRATION DATE: 06/30/2021

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SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-3

PROPOSED SITE LOCATION LOOKING NORTHWEST

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

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330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY:	EG
CHECKED BY:	MM

REV	DATE	DESCRIPTION
F	03/09/2020	100% CD'S REVISED
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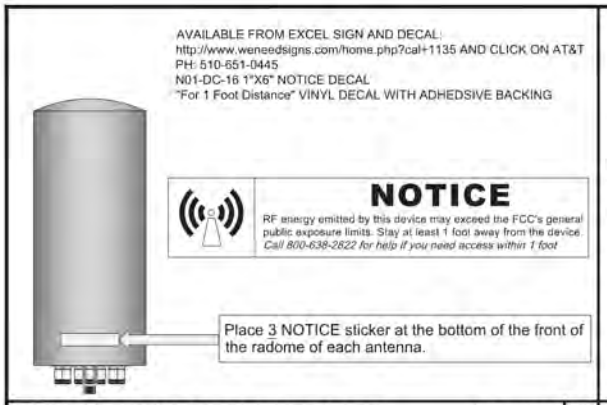
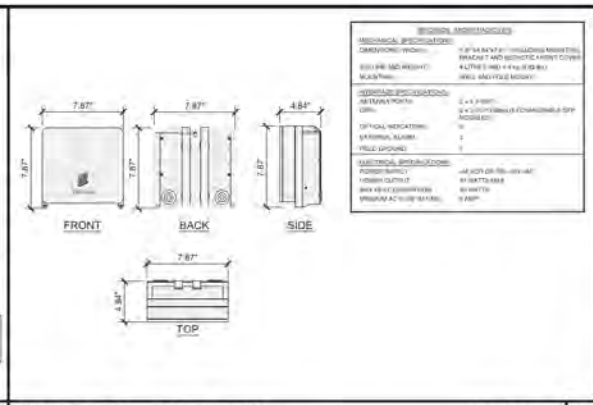
SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
SITE IMAGE

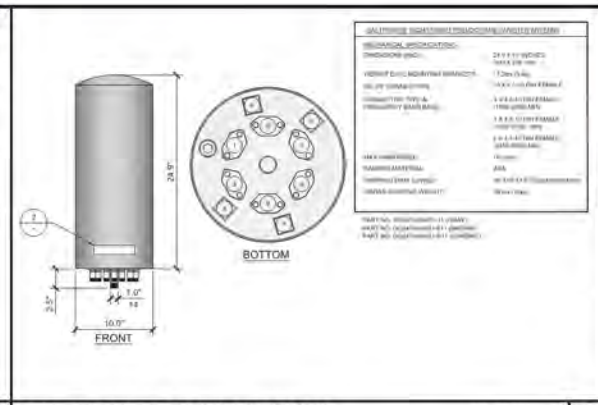
SHEET NUMBER
A-4



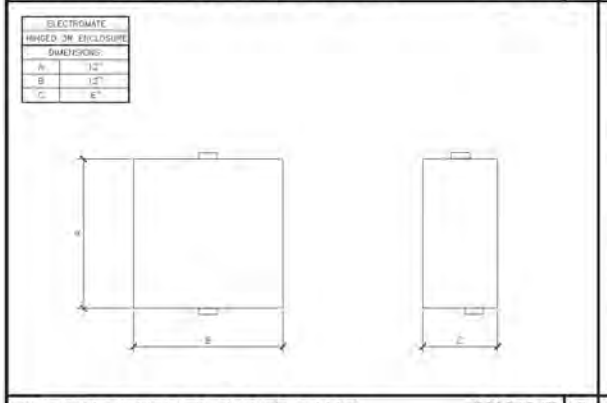
OMNI ANTENNA DISCLAIMER LABEL — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 7



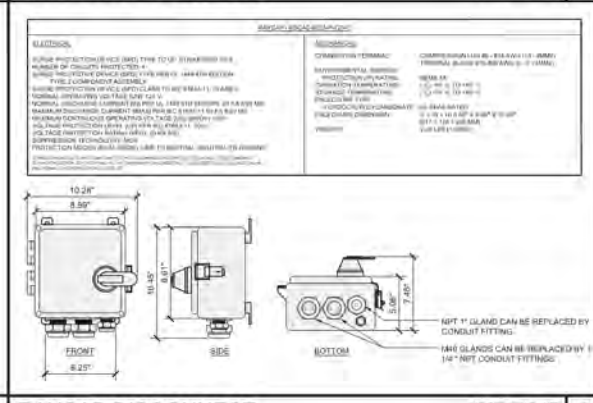
ERICSSON - RADIO 2205 — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 4



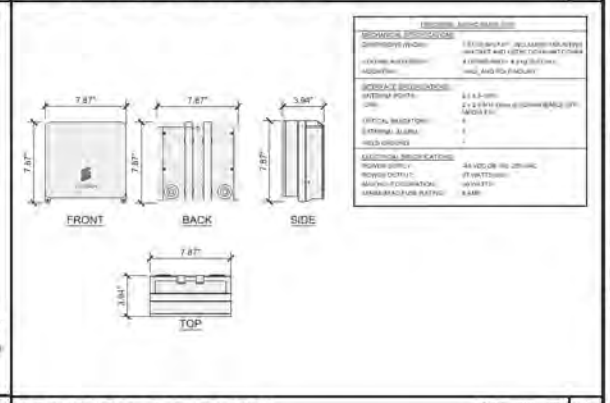
GALTRONICS OMNI ANTENNA — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 1



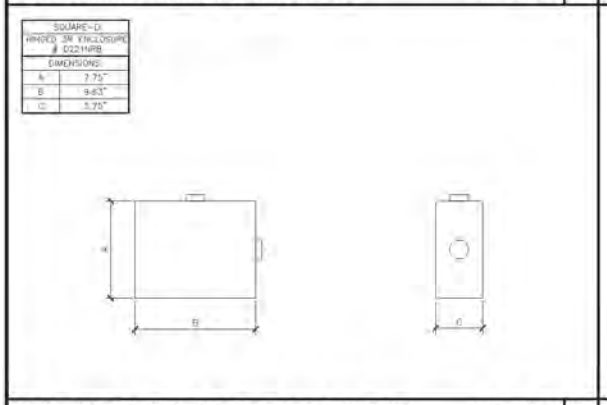
SCE UN-METERED FUSED PANEL — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 8



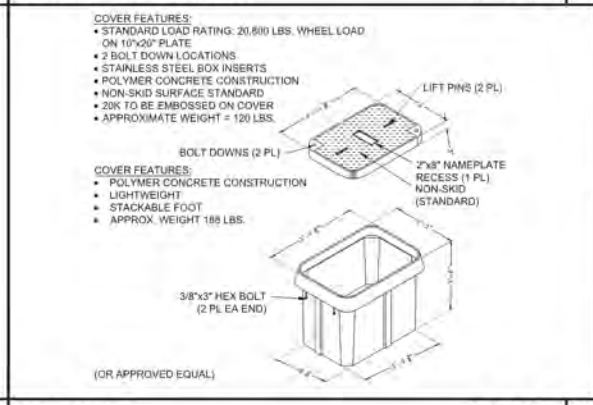
RAYCAP DISCONNECT — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 5



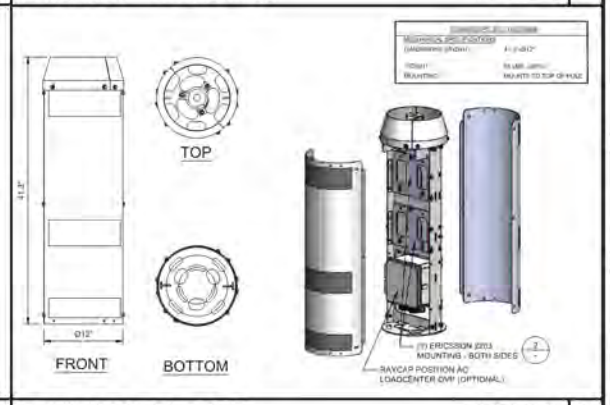
ERICSSON - RADIO 2203 — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 2



AT&T MOBILITY FUSED DISCONNECT — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 9



HANDHOLE — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 6



EQUIPMENT SHROUD — 24"x36" SCALE: NTS / 11"x17" SCALE: NTS — 3

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M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-4824

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
D	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	08/16/2019	100% CD'S REVISED
B	09/21/2018	100% CONSTRUCTION
A	09/17/2018	90% CONSTRUCTION
REV	DATE	DESCRIPTION

REGISTERED PROFESSIONAL ENGINEER
LOVALL A. WHARTON
C50547
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/09/2020
EXPIRATION DATE: 06/30/2021

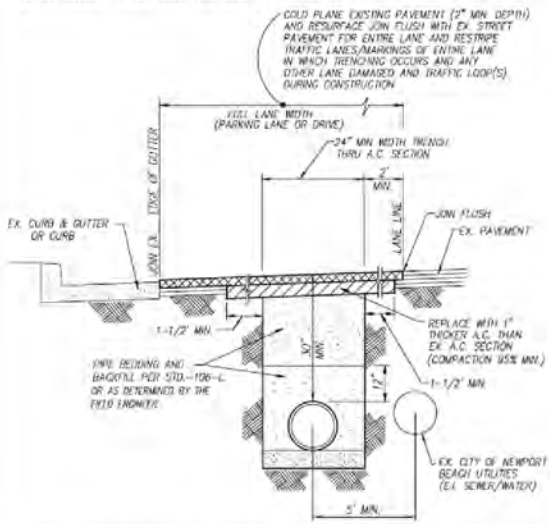
IT IS A VIOLATION OF LAW FOR AN YPERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
DETAILS

SHEET NUMBER
D-1

NOTE:
NEW CONDUITS AND UNDERGROUND FACILITIES IN THE ROADWAY SHALL BE INSTALLED ADJACENT OR CLOSEST AS POSSIBLE TO THE EXISTING EDGE OF GUTTER OR CURB. IF THE PROPOSED CONDUIT TRENCH IS IN A TRAFFIC LANE ADJACENT TO THE EXISTING EDGE OF GUTTER OR CURB, COLD PLANING AND PAVEMENT RESURFACING WILL BE REQUIRED FROM THE NEAREST LANE LINE OF THE PROPOSED TRENCH TO THE EXISTING EDGE OF GUTTER OR CURB. IF THE TRENCH WORK IS IN A TRAFFIC LANE BETWEEN TRAFFIC LANES, THE CONTRACTOR WILL BE REQUIRED TO COLD PLANE AND RESURFACE THE ENTIRE TRAFFIC LANE. THE TRENCH OPENING SHALL BE A MINIMUM OF 2' FROM THE ENTIRE TRAFFIC LANE. IN ADDITION, IF THE TRENCH WORK EXTENDS INTO ANY PORTION OF AN ADJACENT TRAFFIC LANE OR IS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK OR IS LESS THAN 5' FROM AN EXISTING UTILITY TRENCH, THE CONTRACTOR WILL BE REQUIRED TO COLD PLANE AND RESURFACE THE ENTIRE TRAFFIC LANE.



NOTE: STREETS/ALLEYS RECENTLY (LAST 5 YEARS) SLURRIED/RESURFACED/RUN 1 SHALL REQUIRE EXTENSIVE PAVEMENT RESTORATION TO BE DETERMINED BY THE FIELD ENGINEER.

REVISED 6/2002

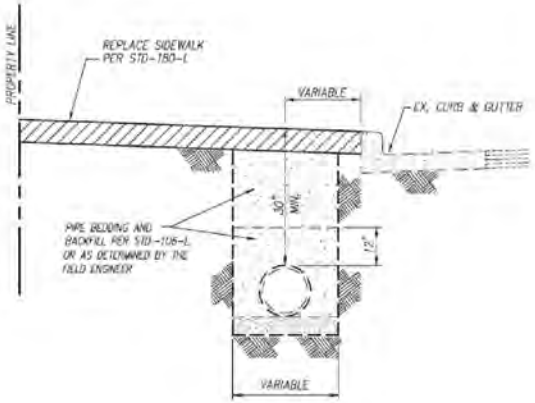
CITY OF NEWPORT BEACH DRAWING STD-105-L-C

ROADWAY TRENCH DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4

NOTES:
1. ANY SIDEWALK REMOVALS MUST BE REPLACED IN FULL PANELS. IN ADDITION, ANY EXISTING CITY IMPROVEMENTS/FACILITIES DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED/REPAIRED AT THE APPLICANT'S EXPENSE.
2. SIDEWALK SHALL BE RESTORED WITHIN ONE WEEK OF INSTALLATION OF FACILITIES.

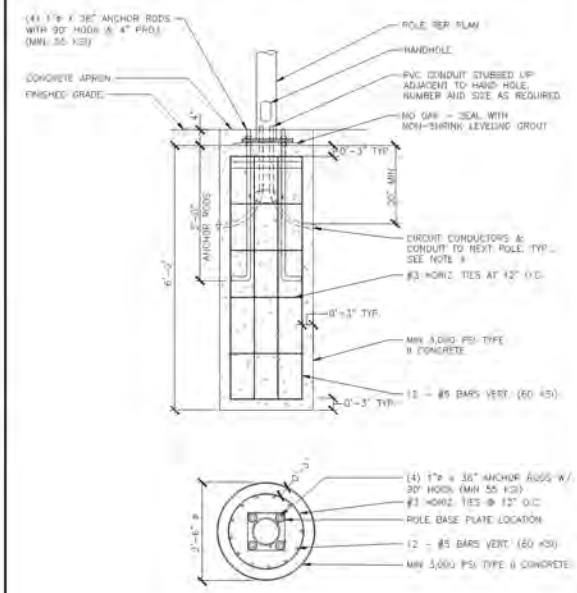


CITY OF NEWPORT BEACH DRAWING STD-165-L-C

PARKWAY TRENCH DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

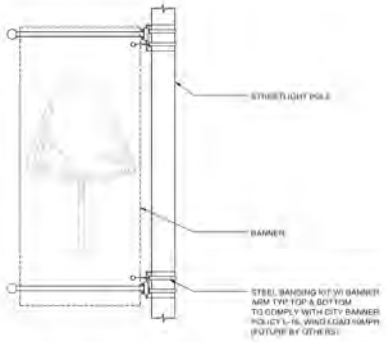


CONCRETE NOTES:
1. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CHAPTER 19 OF THE CBC AND TO ALL REQUIREMENTS OF THE CURRENT EDITION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
2. MIX DESIGN REQUIREMENTS:
   2.A. CEMENT SHALL BE TYPE II
   2.B. COMPRESSIVE STRENGTH = 3,000 PSI
   2.C. MAXIMUM WATER/CEMENT RATIO (W/CM) SHALL BE 0.50
3. ALL REINFORCING STEEL SHALL BE SECURED IN POSITION AND INSPECTED BY THE BUILDING OFFICIAL PRIOR TO PLACING CONCRETE.
4. FOR FIBER CONDUIT, STUB OUT FROM FOUNDATION AWAY FROM STREET SIDE FOR FUTURE FIBER HANDHOLE INSTALLATION.

NEW FOUNDATION

24"x36" SCALE: NTS
11"x17" SCALE: NTS

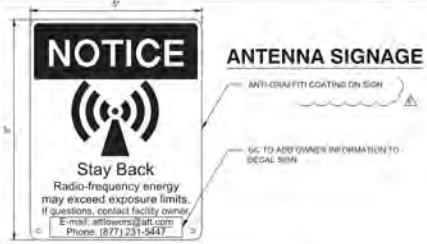
1



WINDBREAKER BRACKET SYSTEM

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5



ANTENNA SIGNAGE:
ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE.
ON METAL POLES - ADHESIVE VINYL OR PLACARD STRAPPED WITH SS TIES.
ON CONCRETE / COMPOSITE - PLACARD STRAPPED WITH SS TIES.
SIGN PLACEMENT:
AFFIX TO THE STRUCTURE 3'-4' BELOW THE COMMERCIAL RF ANTENNA(S).
SIZE APPROX. 8" x 5"

OWNER / OPERATOR NOTE:
SITE ID LABEL TO BE AFFIXED AT OR NEAR THE POINT OF POWER CONNECTION WITH TZe5241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

EMERGENCY CONTACT SIGN

POLE MOUNTED SIGNS

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA #2573 (949) 391-9824

DRAWN BY: EB
CHECKED BY: MM

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REGISTERED PROFESSIONAL ENGINEER
LOVALL A. WHARTON
C50547
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/09/2020
EXPIRATION DATE: 06/30/2021

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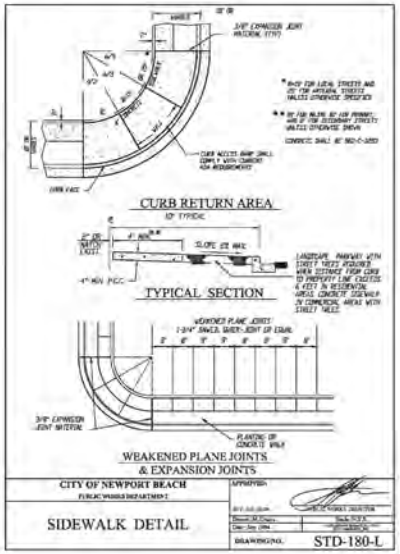
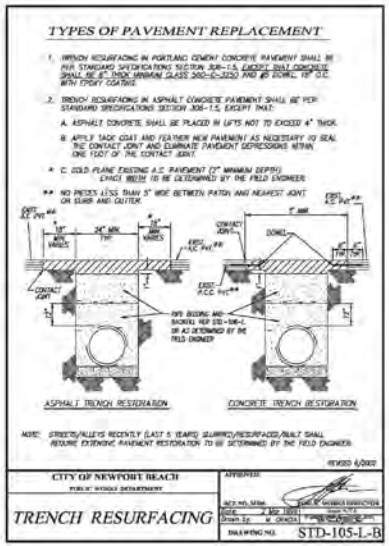
NEWPORT BEACH, CA, 92663

SHEET TITLE
DETAILS

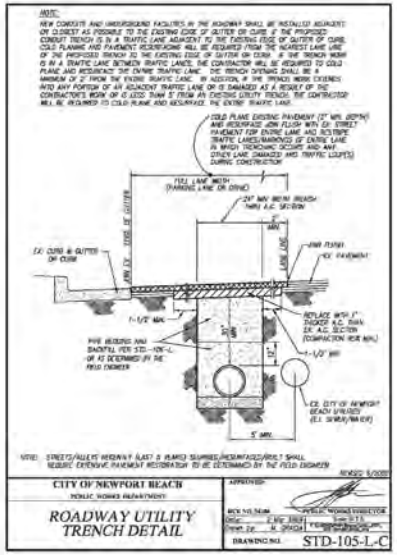
SHEET NUMBER
D-2



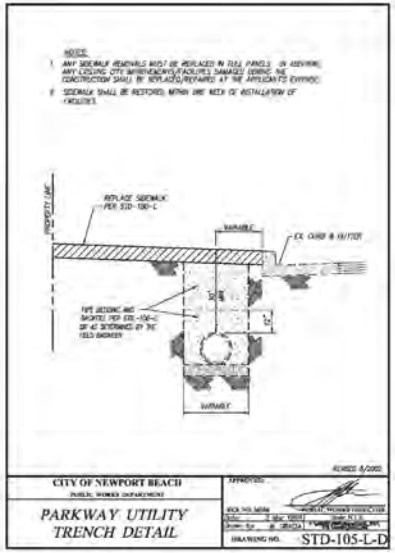
SIDEWALK DETAIL 24"x36" SCALE: NTS 11"x17" SCALE: NTS 7



TRENCH RESURFACING 24"x36" SCALE: NTS 11"x17" SCALE: NTS 5



ROADWAY TRENCH 24"x36" SCALE: NTS 11"x17" SCALE: NTS 3

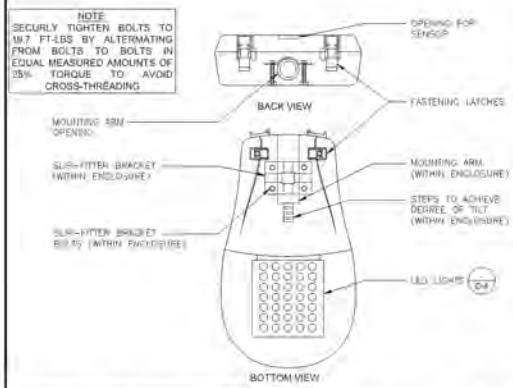


PARKWAY TRENCH 24"x36" SCALE: NTS 11"x17" SCALE: NTS 1

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 8

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 6

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4



LUMINAIRE ATTACHMENT 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
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SAN CLEMENTE CA 92673 (949) 391-8824

DRAWN BY: EG
CHECKED BY: MM

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REGISTERED PROFESSIONAL ENGINEER
LOVALL A. WHARTON
C50547
CIVIL
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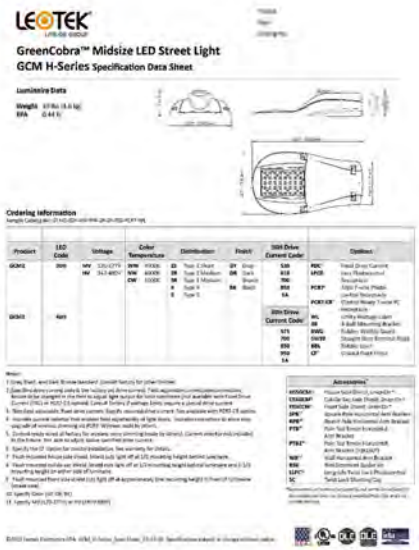
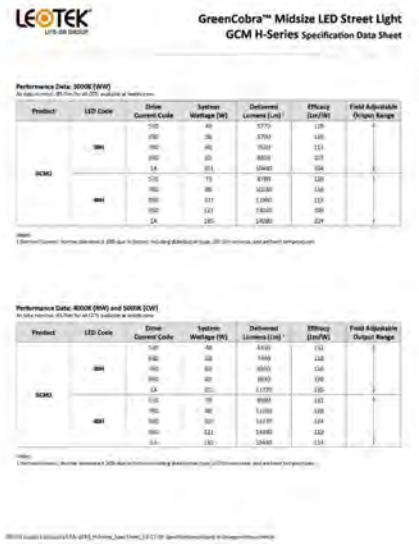
SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

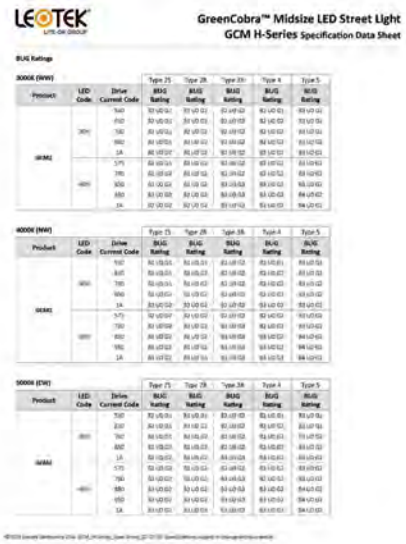
SHEET TITLE
CITY OF NEWPORT DETAILS

SHEET NUMBER
D-3

FOR REFERENCE ONLY







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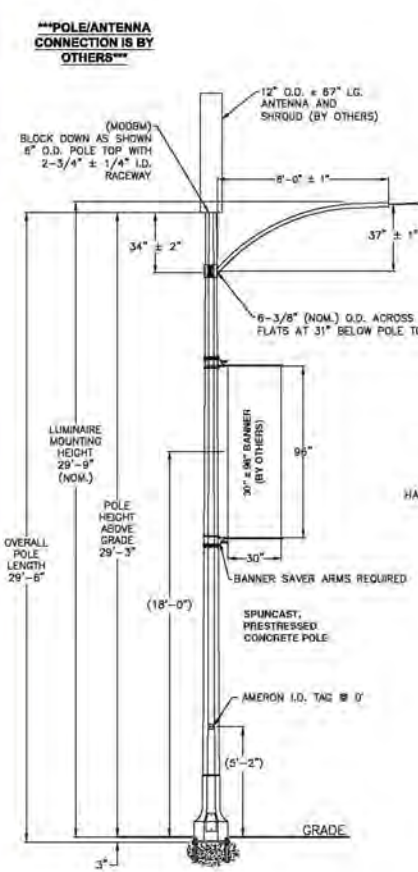
NEWPORT BEACH, CA, 92663

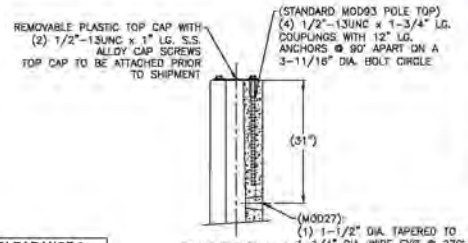
SHEET TITLE
LUMINAIRE SPECS

SHEET NUMBER
D-4

FOR REFERENCE ONLY



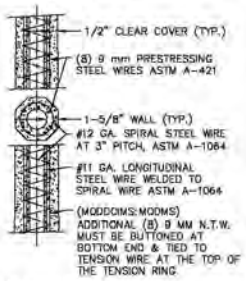
CLEARANCE & CONFORMANCE WITH NEC CODE TO BE VERIFIED BY CUSTOMER



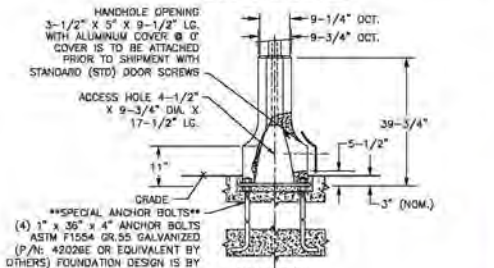
POLE TOP DETAIL

SPECIAL MODMS
(SEE NOTE FOR MODMS)

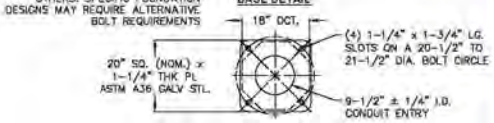
POLE ORIENTATION



POLE SECTION DETAIL



BASE DETAIL



BASEPLATE DETAIL

REV.	DATE	DESCRIPTION	DRN.	APPR.

"F" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.
COATING	I	
HH COVER	43014	
DOOR SCRS	STD	
MISC. MOD	MODFE	NOTE 7

"P" LEVEL CONFIG CODES		
OPTION CLASS	ENTRY	INFO.
MIX	81	
FINISH	3	
COLLAR	NONE	
BASEPLATE	53420E	
POLE TOP CON.	MOD93	
CAST IN MOD	MOD27	
STRUC. MOD	MODDOIMS	NOTE 8
SPL POLE LG.	MODBM	

DECORATIVE BASE BASE PLATE OCTAGONAL POLE

POLE DESIG-NATION	POLE HEIGHT ABOVE GRADE	OVERALL POLE LENGTH	BOLT CIRCLE	BASE O.D.	ULTIMATE G.L. MOMENT (ft. lbs.)	POLE WEIGHT (lbs.)
CBO6X09.6SPL	29'-3"	29'-6"	21"	18"	43,600	1,650

( ) POLES REQUIRED, (P/N: TBD) EACH WITH:
(1) SINGLE 8' STEEL CLAMP ON ARM ASSEMBLY (P/N: TBD)
(1) PLASTIC TOP CAP (P/N: 43585EA)
(2) S.S BANDS BANNER ARM ASSEMBLY (P/N: BASPL30PROA)
(4) 1" X 36" X 4" GR 55 ANCHOR BOLTS (P/N: 42026E)

NOTES:
1. MIX (813I): BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.
2. ASTM C-150 TYPE III GRAY CEMENT.
3. f'c @ 28 DAYS = 7,000 PSI, USING SPUN CYLINDER TEST.
4. f'c @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.
5. POLES MANUFACTURED PER ASTM C-1089-13 SPECIFICATIONS.
6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
7. MODFE: POLE BOTTOM PREPARATION FOR FREEZING OR CORROSIVE COASTAL ENVIRONMENTS; SEE DOCUMENTATION.
8. MODDOI: CORROSION INHIBITOR MIX MODIFICATION.
9. THE POLE DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY (1) ANTENNA SHROUD (NOT TO EXCEED 6.7 SQ. FT. EPA, 130 LBS TOTAL) MOUNTED AT THE TOP, (1) SINGLE CLAMP ARM ASSEMBLY (NOT TO EXCEED 8' OFFSET, 2.5 SQ. FT. EPA, 45 LBS EACH) MOUNTED AT 26'-8" A.G. WITH THE ARM HOLDING A SINGLE LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. EPA, 50 LBS EACH), (1) NO PARKING SIGN (NOT TO EXCEED 1.7 SQ. FT. EPA, 10 LBS EACH) CENTERED NO HIGHER THAN 7'-2" A.G., (1) 30" x 96" BANNER (NOT TO EXCEED 5.6 SQ. FT. EPA, 10 LBS EACH (20% LOAD IMPARTED)) CENTERED NO HIGHER THAN 18'-0" A.G. AS DESIGNED ASCE 7-10 USING A 110 MPH WIND ZONE (Ss = 1.701 S1=0.629), RISK CATEGORY II, NON-BUILDING STRUCTURE, EXPOSURE C, SITE CLASS D, SURFACE ROUGHNESS C, NO HILL NOR ESCARPMENT CONSIDERED. PLEASE CONTACT & ADVISE MANUFACTURER IF THE INTENDED LOADING EXCEEDS THESE VALUES.

APPROVED BY DATE

M-SQUARED WIRELESS
NEWPORT BEACH, CA
CBO6X09.6SPL POLE W/ 8' SINGLE CLAMP ARM ASSEMBLY

THIS DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO NATIONAL OILWELL VARCO. IT SHALL NOT BE REPRODUCED, USED OR DISCLOSED TO ANYONE WITHOUT THE PRIOR WRITTEN PERMISSION OF NATIONAL OILWELL VARCO.

Ameron

DRAWN: K.B.	DATE: 01/13/20	
SCALE: N.T.S.	DWG. NO. 2001-019	REV –

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
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SAN CLEMENTE CA 92673 (949) 391-9924

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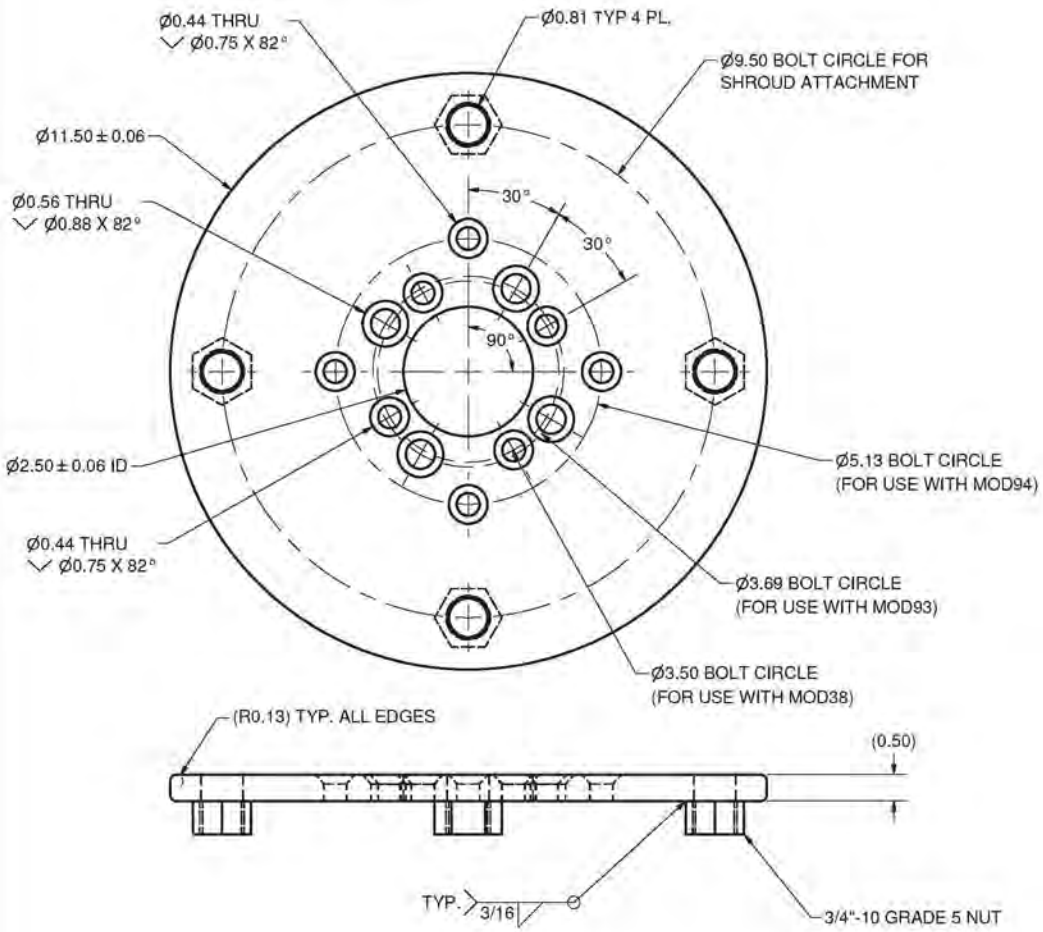
SHEET TITLE
POLE DETAILS

SHEET NUMBER
S-1

POLE DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS
1

FOR REFERENCE ONLY



APPROX. WT: 15.0 LBS

REV.	DATE	DESCRIPTION	DRN.	APPR.

MATERIAL:
A36 STEEL PLATE
E70 WELD FILLER
USE GRADE 5 UNCOATED NUTS
GALVANIZE PER ASTM A123
MATERIAL CERTIFICATIONS REQUIRED

NOTES:
1. ALL DIMENSIONS ARE EXPRESSED AS INCHES UNLESS OTHERWISE NOTED.
2. CORNER AND FILLET RADDI TO BE 1/32" UNLESS OTHERWISE NOTED.
3. DEBURR ALL SHARP EDGES.
4. AFTER FABRICATION GALVANIZE TO ASTM A123
5. ALL HOLES SHOULD BE CLEANED UP AFTER GALVANIZING
6. CHASE THREADS AFTER GALVANIZING
7. TOLERANCES FOR ALL BOLT CIRCLES ±0.06"
8. TOLERANCES FOR ANGLES ±1°

TOP MOUNT ADAPTER PLATE FOR USE WITH COMMSCOPE SHROUD
FOR USE WITH ANY AMERON POLE WITH MOD94, MOD93, OR MOD 38 POLE TOP

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Ameron

DRAWN: KB	DATE: 03/01/19	
SCALE N.T.S.	DWG. NO 56248E	REV.

at&t
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TUSTIN, CA 92780

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CHECKED BY: MM

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SHEET TITLE
ADAPTER PLATE DETAILS

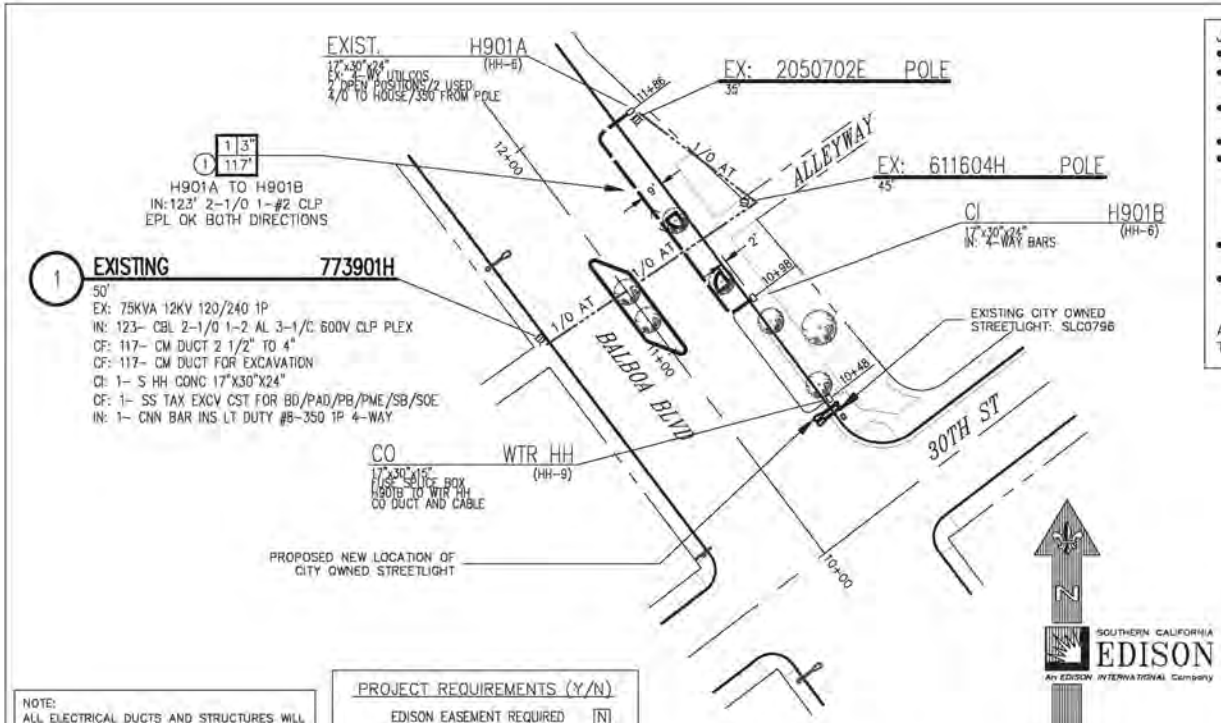
SHEET NUMBER
S-2

ADAPTER PLATE DETAIL

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

FOR REFERENCE ONLY



JOB SCOPE:

- WTR FOR AT&T SITE #CSTAM 03A.
- TRENCH MUST BE MIN. 5' FROM CURB FACE PER CITY STANDARD.
- TRENCH SHOWN 9' FROM CURB FACE TO AVOID PLANTERS IN STREET PER CUSTOMER.
- CONTRACTOR TO INSTALL H901B.
- CUSTOMER TO SUPPLY & INSTALL FUSE SPLICE BOX (FSB) 17X30X15 FOR NON-METERED CELLULAR SERVICE.
  CUSTOMER TO SUPPLY & INSTALL C.O. DUCT & CABLE FROM FSB TO H901B.
- SCE TO ENERGIZE CUSTOMER OWNED CABLE UPON INSPECTION.
- CUSTOMER TO COORDINATE WITH CITY FOR REPLACEMENT OF CITY-OWNED STREETLIGHT.

AT&T CONTACT: TIRZAH STARR (602)-488-2700
TIRZAH@MSQUAREWIRELESS.COM

NOTE:
ALL ELECTRICAL DUCTS AND STRUCTURES WILL CONFORM TO GENERAL ORDER #128 (RULES FOR CONSTRUCTION OF UNDERGROUND ELECTRICAL SUPPLY AND COMMUNICATION PRESCRIBED BY THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA, JANUARY 2006).

WARNING
THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE. HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

SCE Inspection
Contact SCE 48 Hours in advance for a Pre-Construction meeting and/or Inspection.
Email: NDPFSC@SCE.COM

PROJECT REQUIREMENTS (Y/N)

EDISON EASEMENT REQUIRED	N
PWRD 88 REQUIRED	Y
UG CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	Y
PERMIT TYPE: LANE CLOSURE	
OUTAGE REQUIRED	N
OUTAGE DATE: _____ TIME: _____	
TRAFFIC CONTROL REQUIRED	Y
PED. TRAFFIC CONTROL REQ'D	Y
CONVEYANCE LETTER REQ'D	N
ENVIRONMENTAL CLEARANCE REQ'D	N
CSD 140 (TLM) REQ'D	Y

UNDERGROUND SERVICE ALERT
Dial 811
Call USA
For Underground Locating
2 Working Days Before You Dig

T.L.M. DATA:

	SIZE	KVA	CUST	% LOAD
EXIST.	75	100.4	59	133.8%
PROP.	75	101.4	60	135.2%

VOLTAGE DROP: 0.22
FLICKER FACTOR: N/A
PRI. CIRCUIT: SNEAD 12KV

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

FINAL DESIGN
APPROVED FOR CONSTRUCTION

DISTRICT: 33 – HUNTINGTON BEACH	PROJ. MGR.: HUNTER, YOLANDA D PHONE 626-484-6772	PLANNER: SEKO, JULIE PHONE 949-274-1778	DESIGNER: TIMMS, JON P.
PROJECT NO.: 1861280	SERVICE REQUEST: 2763964	MSR NO.:	PRODUCT-1: 1621173-LINE EXTENSION — ASSOC DESIGN
CIRCUIT / VOLTAGE: SNEAD /12KV		THOMAS GUIDE:	PRODUCT-2: — ASSOC DESIGN
SUB / PC NO.: LAFAYETTE/B1		CIRCUIT CODE:	PRODUCT-3: — ASSOC DESIGN
INVENTORY MAP: 28-11D		J.P.A. NO.:	

PROPOSED CONSTRUCTION (LOCATION)
AT&T SITE#213735 – CSTAM 03A
201 30TH ST
NEWPORT BEACH, CA 92663

TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #
F	11/25/19	J.SEKO		J.TIMMS	51440

Southern California Edison Company

SHEET 1 OF 3 — DESIGN\DRWG NO. 1210761_0.01

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
F	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	09/16/2019	100% CD'S REVISED
B	08/21/2019	100% CONSTRUCTION
A	08/17/2018	90% CONSTRUCTION

SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

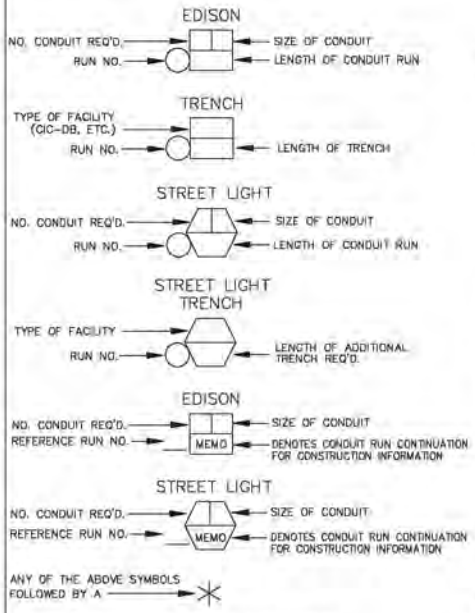
SHEET TITLE
SCE FINAL DESIGN

SHEET NUMBER
SCE-1

FINAL POWER

FOR REFERENCE ONLY

LEGEND OF CONDUIT SYMBOLS
(CONVENTIONAL U. G.)



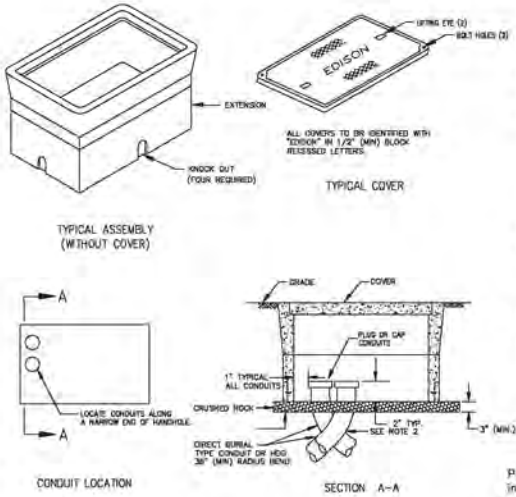
DENOTES THE FOLLOWING:

DB CONDUIT WITHOUT ENCASEMENT IS ACCEPTABLE FOR PORTIONS OF TRENCH WITH ONLY ONE OR TWO CONDUITS

SEMI-ENCASEMENT IS REQUIRED FOR PORTIONS OF TRENCH WITH ONLY THREE OR FOUR CONDUITS

FULL ENCASEMENT IS REQUIRED FOR MORE THAN FOUR CONDUITS

TYPICAL HANDHOLE INSTALLATION
SEE UGS HP 205



NOTES:

1. SEE UGS HP 200 FOR DIMENSIONS OF VARIOUS SIZE HANDHOLES AVAILABLE.
2. RADIUS ANGLE MAY BE REDUCED TO LESS THAN 90° PROVIDING THE PROJECTED CENTER LINE OF THE CONDUIT CLEARS HANDHOLE OPENING.
3. TWO HOLD DOWN DEVICES TO BE SUPPLIED WITH EACH HANDHOLE.

CONNECTING TO EXISTING SCE STRUCTURES

- Per SCE requirements, customers are not allowed to enter, intercept or tie-in to existing SCE facilities; e.g. structures, equipment, multi-conduit runs/banks, or conductors. These facilities may be energized and the work will only be performed by SCE. Contact the appropriate SCE inspector to schedule an appointment. Customers may connect to an existing conduit stub without a SCE inspector present.
- Multi-conduit runs/banks are runs of conduit in close proximity to each other and other SCE facilities. A conduit stub is a single empty conduit stub that is not in close proximity to other SCE owned facilities. Refer to the work order map for details.
- Per CPUC/SCE's Rule 15 B.1.A and Rule 16 D.1.A., the customer will provide all necessary excavations (with the exception of excavation under pads and primary splice boxes), material (including conduit and structures) and encasement, to be utilized in the intercept/tie-in process.
- The customer must adhere to all applicable Cal-OSHA, local, city, state and federal regulations, (including, but not limited to, all necessary shoring and traffic control in place to perform the intercept/tie-in work by SCE's underground civil contractor(s)).
- Intercept/tie-in work must be coordinated with SCE's civil contractors through the Division Inspector/P-Spec to limit exposure of excavation(s). Customer is responsible for securing excavation(s).

DDB: 11/13/18

LEGEND CODE DEFINITIONS

CI – CUSTOMER CONTRACTOR INSTALLED: MATERIALS FURNISHED AND INSTALLED BY APPLICANT AT EDISON'S EXPENSE AND ARE DEEDED TO EDISON. (EXCEPTION: STREET LIGHT ELECTROLIERS WILL BE INSTALLED BY EDISON'S CONTRACTOR.)

CO – CUSTOMER CONTRACTOR OWNED: MATERIALS FURNISHED, INSTALLED, OWNED, AND MAINTAINED BY APPLICANT.

CF – CUSTOMER CONTRACTOR FURNISHED: MATERIALS FURNISHED AND INSTALLED BY APPLICANT AT APPLICANT'S EXPENSE THAT MAY BE DEEDED TO EDISON.

IN – INSTALL: MATERIALS FURNISHED AND INSTALLED BY APPLICANT IF APPLICANT INSTALLED PROJECT OR BY EDISON IF EDISON INSTALLED PROJECT. (EXCEPTION: FOR AN APPLICANT INSTALLED LINE EXTENSION, STATION NOS.
HAVING AN ASTERISK ADJACENT TO AN "IN" LEGEND CODE REPRESENTS MATERIALS TO BE PROVIDED BY APPLICANT AND INSTALLED BY EDISON IN ALL CASES. REFER TO DPB 8256, PROJECT MATERIAL LIST BY ASSEMBLY WITHIN A STATION.)

MI – MEMO INSTALL: SAME AS IN-INSTALL.

MR – MEMO REMOVE: MATERIALS REMOVED BY EDISON.

RM – MEMO REMOVED: MATERIALS REMOVED BY EDISON.

SI – SHOOFLY IN: MATERIALS FURNISHED AND INSTALLED BY EDISON FOR TEMPORARY CONSTRUCTION.

SR – SHOOFLY REMOVE: MATERIALS REMOVED BY EDISON FOR TEMPORARY CONSTRUCTION.

TR – TRANSFER: EDISON LABOR REQUIRED TO TRANSFER EXISTING FACILITIES.

CONCRETE PRODUCTS

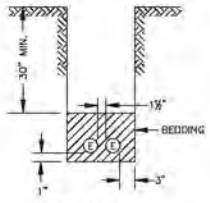
Precast concrete item complete with neck. Cover and inserts may be obtained from any of the following listed and approved manufactureres:

JENSEN PRECAST
14221 San Bernardino Ave., Fontana, Calif. 92335
Phone: (909) 350-4111
(800) 257-6100

OLDCASTLE PRECAST
10650 Hemlock Ave., Fontana, Calif. 92337
Phone: (909) 428-3700
(800) 626-3860

FOR HANDHOLE AND PULLBOX MANUFACTURERS, SEE UGS HP 200.

TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120



DIRECT BURIAL
SIMILAR CONSTRUCTION FOR FEWER CONDUIT
2 CONDUITS MAX.

TIE-IN MADE INTO A SECONDARY HANDHOLE

If PVC conduit is used, riser bend installation may be made by the customer with prior SCE approval. Customer not to remove handhole cover. If metallic conduit is used or handhole cover needs to be removed, a SCE Qualified Person must be present.

DISTRICT		PROJ. MGR. HUNTER, YOLANDA D PHONE 626-484-6772		PLANNER SEKO, JULIE PHONE 949-274-1778	DESIGNER TIMMS, JON P.	
PROJECT NO. 1861280	SERVICE REQUEST 2763964	MSR NO.	PRODUCT-1 1621173-LINE EXTENSION			ASSOC DESGN
CIRCUIT / VOLTAGE SNEAD/12KV		THOMAS GUIDE	PRODUCT-2			ASSOC DESGN
SUB / PG NO. LAFAYETTE/B1		CIRCUIT CODE	PRODUCT-3			ASSOC DESGN
INVENTORY MAP 28-11D		J.P.A. NO.	PROPOSED CONSTRUCTION (LOCATION) AT&T SITE#213735 – CSTAM 03A 201 30TH ST NEWPORT BEACH, CA 92663			
F	11/25/19	J SEKO		J TIMMS	51440	
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	
Southern California Edison Company					SHEET 2 OF 3	DESIGN\DRWG NO. 1210761_0.01

FINAL POWER

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
D	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	09/16/2019	100% CD'S REVISED
B	08/21/2018	100% CONSTRUCTION
A	08/17/2018	90% CONSTRUCTION

SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
SCE FINAL DESIGN

SHEET NUMBER
SCE-2

FOR REFERENCE ONLY

CONSTRUCTION NOTES:

Unless otherwise specified on the working drawing which forms a part of the specification, the Contractor/Developer shall furnish the following items at no cost to the Edison Company.

Southern California Edison Company has attempted to correctly show all existing utilities and substructures in the vicinity of the work, but does not guarantee there are no other substructures in the area. Failure of SCE to show all substructures in their correct location will not be a basis for a claim for extra work, and the contractor shall be responsible for all damages to substructures whether shown or not.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.

2. CONDUIT:
   a. Minimum cover in street or parkway is 30" below gutter grade, unless noted otherwise.
   b. Minimum cover on private property is 30" below finished grade, unless noted otherwise.
   c. Contractor is to furnish and install approved conduit to Edison specifications per UGS CD 1061, 110 AND 120.
   d. For the type of conduit for this job, See UGS CD 110.1.
   e. Install all bends per UGS CD 1062, 1063 and 1170.
   f. Seal all spare conduits per UGS CD 1161 and 1170.
   g. Install black conduit plugs in all conduits terminating into Vaults, Manhole's, PMH's, SCE's & all cap locations, per UGS CD 1165.1 & UGS CD 1165.2
   h. Install pull rope in all conduit runs. Pull rope to be at least 3/8" polypropylene rope, braided or twisted. For specifications, approved makes, and suppliers, see UGS GI 040.
   i. All conduit must be mandrelled with the approved mandrel UGS CD 197.

3. CONDUIT RADIUS REQUIREMENTS:
   a: The minimum radius for bends are
      36" for conduits 3" in diameter or smaller
      48" for conduits 4" and 5" in diameter
      60" for 6" diameter conduit
   b: The minimum radius for all sweeps of all mainline conduits is 12'-6" (unless noted otherwise).

4. EXCAVATION AND BACKFILL:
   a. Work area shall be cleared and rough graded to within four inches of final grade prior to installation of Edison conduit or structures.
   b. Excavation shall be in accordance with the California State Construction Safety Orders (when applicable), Edison specifications and all governing local ordinances.
   c. Each trench to be a uniform depth below final grade prior to installation of Edison conduit or structures.
   d. Backfill shall be provided by the Contractor for all excavations and shall include crushed rock, concrete, and/or imported backfill, when required.
   e. Backfill with a MINIMUM of one sack per yard sand cement slurry around and over vaults and manholes per UGS CD 1162, section 4.4 and around PMH's within one foot of finished grade, per UGS 53.5900.
   f. Backfill over conduits, vaults and manholes with approved native material or approvable material.
   g. No rocks are allowed within 12 inches of direct-buried cables or any conduit without concrete encasement. Native backfill capable of passing through a one-half inch mesh screen shall be considered to be "rock free". If existing backfill does not pass through a 1/2" screen, place imported sand 3" below and 12" above Edison cables. After this point, the rocks larger than 12" diameter are permitted.
   h. All backfill shall be compacted to meet Edison specifications and Local Agency requirements. It shall be placed in a manner that will not damage the conduit or substructure or allow future subsidence of the trench or structures.

5. PAVING:
   Repaving, where required, shall be placed in such a manner that interference with traffic, including pedestrian traffic, will be kept to a minimum. The Contractor shall obtain the approval of repaving methods acceptable to the Municipality, County, or other authority having jurisdiction and which is acceptable to Edison.

6. STRUCTURES:
   a. All substructures shall be constructed or installed to Edison specifications.
   b. Install protection barriers per UGS M3 8340 when required in areas exposed to traffic, per Edison inspector.
   c. All structures shall be installed level and plumb, and flush with finished grade.
   d. All grounding materials shall be furnished and installed by the Contractor.

7. RETAINING WALLS:
   When required, retaining walls shall be provided by the Developer. Walls are required wherever grade rises more than 18 inches above the structure or 24" above the pad surface at a distance of 5 feet from the same. Walls shall be designed by a registered civil engineer. Walls must comply with local building ordinances. Refer to Edison inspector for typical space requirements.

8. PERMITS:
   All permits necessary for excavation shall be provided by the Contractor/Developer.

9. ACCESS:
   Heavy truck access shall be maintained to equipment locations. Structures must be clear of all appurtenances that would obstruct the loading or unloading of equipment.

10. SERVICES:
    a. Meters and services shall comply with Edison Electrical Service Requirements.
    b. Wiring must be in accordance with applicable local ordinances and approved by local Inspection Authorities.

11. LOCATION:
    a. The location of excavations and structures for Edison shall be as shown on the working drawing. No deviation from the planned locations will be permitted unless approved by the Edison Inspector. See UGS GI 001, section 2.2.
    b. Actual location of obstructions, storm drains, and/or other foreign utilities to be the responsibility of the Contractor. See UGS GI 001, section 2.3.

12. Contractor is to verify location and widths of all sidewalks and driveways prior to street light installation. See UGS CD 175.1, UGS CD 175.2 and UGS CD 175.3.

13. SURVEY:
    Surveying of street improvements, property corners, lot lines, finished grade, etc. necessary for the installation of underground facilities must be completed and markers or stakes placed prior to the start of the installation. In addition, Developer shall maintain the markers during the installation and inspection by Edison. Grade and properly line stakes must show any offset measurements.

14. COORDINATION AND SUPERVISION:
    The Developer shall provide supervision over and coordination among the various contractors working within the development in order to prevent damage to Edison facilities. He is responsible for the cost of repairs, replacement, relocation, or other corrections to Edison facilities made necessary by his failure to provide supervision or to otherwise comply with these specifications.

15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
    The Developer shall make arrangements with the telephone company and other utility. Any questions concerning details of their installation should be referred to the company concerned.

16. OWNERSHIP:
    Developer is to deed to the Edison Company all structures shown hereon except those shown as customer owned.

17. WARRANTY:
    Applicants expressly represent and warrant that all work performed and all material used in meeting Applicants' obligations herein are free from defects in workmanship and are in conformity with Southern California Edison Company's requirements. This warranty shall commence upon receipt by Applicants of Company's final acceptance and shall expire one year from that date. Applicants agree to promptly correct to the Company's satisfaction any defect in workmanship or material which may become apparent through inspection or operation of underground electric system by Company during this warranty period.

18. INSPECTION:
    Inspection is required during the construction period. A 48 hour advance notice of intent to start construction is required from the contractor to the Southern California Edison Company. Standards of Edison construction requirements are available upon request.

Duct and Structure Inspector: NDPFSC@SCE.COM Phone:

Cabling Construction Coordinator: Phone:

DISTRICT 33 – HUNTINGTON BEACH		PROJ. MGR. HUNTER, YOLANDA D PHONE 626-484-6772		PLANNER SEKO, JULIE PHONE 949-274-1778	DESIGNER TIMMS, JON P.
PROJECT NO. 1861280	SERVICE REQUEST 2763964	MSR NO.	PRODUCT-1 1621173-LINE EXTENSION		ASSOC DESGN
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INVENTORY MAP 28-11D		J.P.A. NO.	PROPOSED CONSTRUCTION (LOCATION) AT&T SITE#213735 – CSTAM 03A 201 30TH ST NEWPORT BEACH, CA 92663		
F	11/25/19	J.SEKO	J.TIMMS	51440	
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #
Southern California Edison Company				SHEET 3 OF 3	DESIGN\DRWG NO. 1210761_0.01

FINAL POWER

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

at&t
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M SQUARED WIRELESS
1387 CALLE AVANZADO
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DRAWN BY: EG
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REV	DATE	DESCRIPTION
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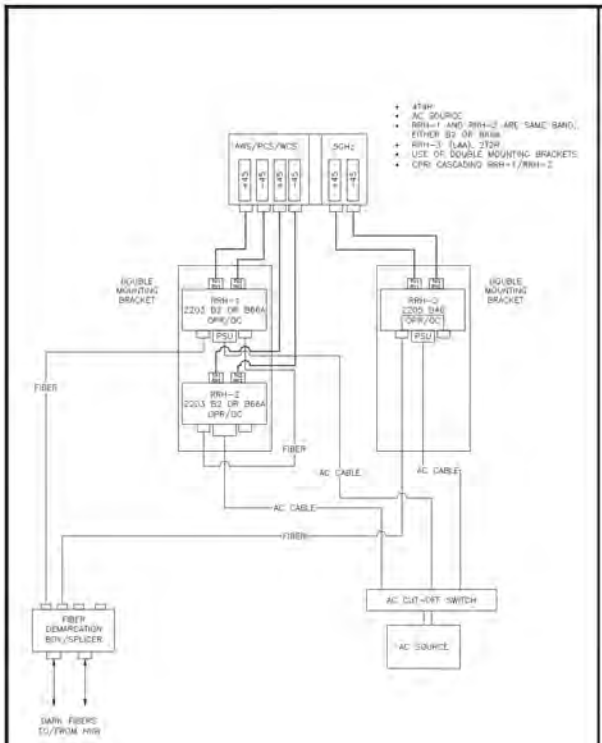
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	09/16/2019	100% CD'S REVISED
B	08/21/2018	100% CONSTRUCTION
A	08/17/2018	90% CONSTRUCTION

THIS INFORMATION OF AN INCOMPLETE DESIGN THAT HAS NOT BEEN STAMPED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS ALSO THIS DOCUMENT.

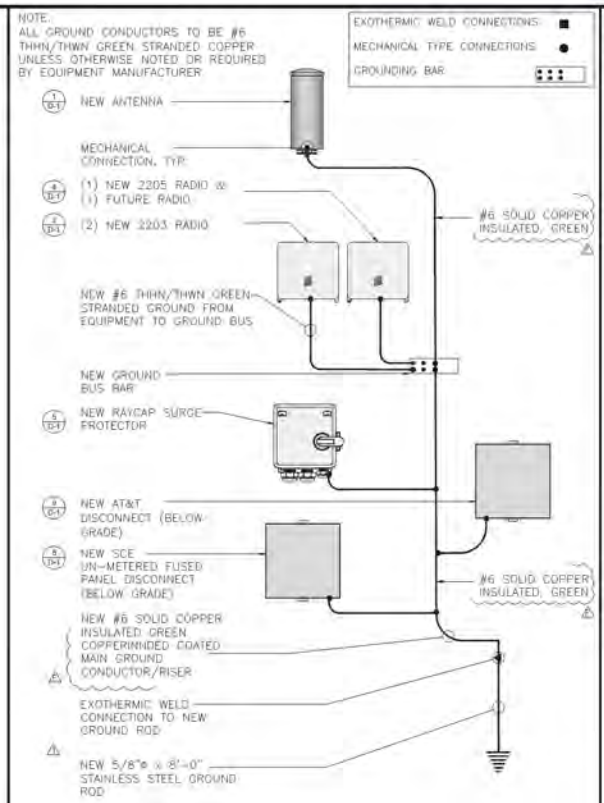
SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
SCE FINAL DESIGN

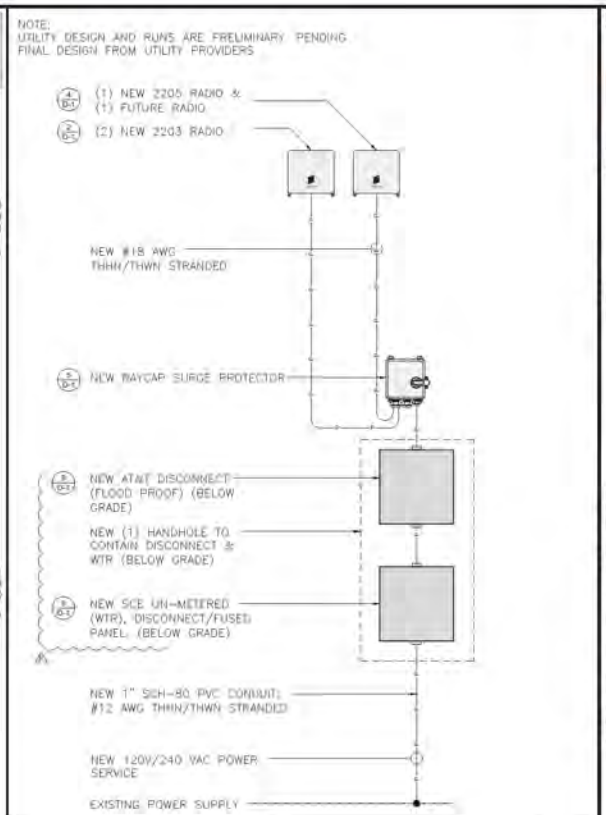
SHEET NUMBER
SCE-3



PICO PLUMBING DIAGRAM 24"x36" SCALE: NTS 11"x17" SCALE: NTS 5



GROUNDING SCHEMATIC 24"x36" SCALE: NTS 11"x17" SCALE: NTS 3

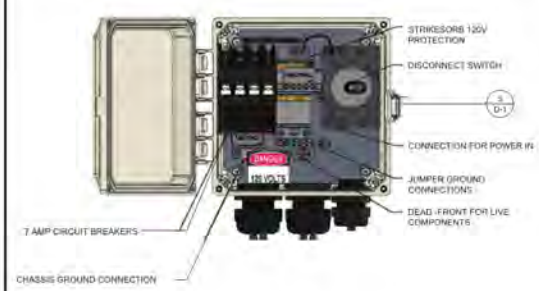


SINGLE LINE DIAGRAM 24"x36" SCALE: NTS 11"x17" SCALE: NTS 1

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 6

NOTES 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4

NOTE:
1. DISTANCE TO POWER SOURCE/PEDESTAL IS 145' (20/240 VAC ON W BALBOA BLVD.
2. ALL CIRCUIT MODIFICATIONS, ALTERATIONS, LOAD CONSOLIDATIONS, INSTALLATION OF NEW CONDUIT & CONDUCTORS, NEW SERVICE PEDESTAL, MEANS AND METHODS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR/AT&T AT NO CHARGE TO THE CITY
3. WIRE SIZING & VOLTAGE DROP CALCULATIONS TO BE ADDED TO THE PLANS.



BREAKER SCHEDULE 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2

at&t
1452 EDINGER AVE.
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SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
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A	08/17/2018	90% CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER LOVALL A. WHARTON C50547 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 03/09/2020
EXPIRATION DATE: 06/30/2021

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.

SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-1

NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2014 CALIFORNIA MUTCD) AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. THE CITY TRAFFIC ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
3. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM VIEW WHEN NOT IN USE.
4. WORK HOURS SHALL BE RESTRICTED TO THE PERIOD BETWEEN 7:00 A.M. AND 5:00 P.M., MONDAY THROUGH FRIDAY, UNLESS APPROVED OTHERWISE. WHEN NIGHT WORK IS REQUIRED, WORK HOURS SHALL BE 9:00 P.M. TO 5:00 A.M. SUNDAY THROUGH FRIDAY.
5. TRENCHES MUST BE BACK FILLED OR PLATED DURING NON-WORKING HOURS.
6. PEDESTRIAN CONTROLS SHALL BE PROVIDED AS SHOWN ON THE PLANS.
7. TEMPORARY "NO PARKING SIGNS" SHALL BE POSTED 72 HOURS PRIOR TO COMMENCING WORK IN ALL PARKING ZONES.
8. ACCESS TO DRIVEWAYS WILL BE MAINTAINED AT ALL TIMES UNLESS OTHER ARRANGEMENTS ARE MADE.
9. THE CONTRACTOR SHALL REPLACE WITHIN 72 HOURS ALL TRAFFIC SIGNAL LOOP DETECTORS DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL REPLACE WITHIN 24 HOURS, ALL STRIPING, REMOVED OR DAMAGED BY CONSTRUCTION WORK. (STRIPING MAY BE REPLACED TEMPORARILY WITH TAPE.)
11. ALL WORKERS SHALL BE EQUIPPED WITH AN ORANGE VEST (OR A REFLECTIVE VEST AT NIGHT). ALL FLAGGERS SHALL BE EQUIPPED WITH A HARD HAT, C28 "STOP/SLOW" PADDLE AND SHALL BE TRAINED IN THE PROPER FUNDAMENTALS OF FLAGGING TRAFFIC.
12. ANY WORK THAT DISTURBS NORMAL TRAFFIC SIGNAL OPERATIONS SHALL BE COORDINATED WITH THE CITY 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
13. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC DEVICES 24 HOURS PER DAY AND 7 DAYS PER WEEK.
14. A MINIMUM OF 10' TRAVEL LANES MUST BE MAINTAINED UNLESS OTHERWISE APPROVED THE CITY.
15. ALL NIGHT WORK WILL REQUIRE WRITTEN APPROVAL FROM THE CITY. LANE CLOSURES, ROAD DETOURS, AND TRAFFIC SIGNAL MODIFICATIONS ASSOCIATED WITH OVERNIGHT CONSTRUCTION ACTIVITIES WILL REQUIRE WARNING SIGNS BE PLACED AT LEAST ONE WEEK IN ADVANCE OR STARTING CONSTRUCTION.
16. A SOLAR POWERED FLASHING ARROW BOARD SHALL BE REQUIRED ON ALL ARTERIAL STREET LANE CLOSURES.
17. THE CONTRACTOR SHALL NOTIFY TRANSIT AUTHORITY IN ADVANCE AND PROVIDE TEMPORARY RELOCATED BUS STOPS.
18. TRAFFIC CONTROL PLAN COMPLIES WITH 2016 WATCHBOOK REQUIREMENTS. △1

MINIMUM RECOMMENDED DELINEATOR/CONE & SIGN PLACEMENT					
TABLE 6H-4 FORMULAS BASED ON 12' WIDE LANES: 40 MPH OR LESS L=WS²/60 45 MPH OR MORE L=WS					
POSTED SPEED LIMIT	TAPER LENGTH "L" EACH LANE	DELINEATOR SPACING		SIGN SPACING "S" ADVANCE OF TAPERS & BETWEEN SIGNS	BUFFER SPACE
		TAPER	TANGENT		
25 MPH	125 FT	25 FT	50 FT	125 FT	155 FT
30 MPH	180 FT	30 FT	60 FT	180 FT	205 FT
35 MPH	245 FT	35 FT	70 FT	245 FT	257 FT
40 MPH	320 FT	40 FT	80 FT	320 FT	318 FT
45 MPH	540 FT	50 FT	100 FT	540 FT	378 FT
50 MPH	600 FT	50 FT	100 FT	600 FT	446 FT
55 MPH	660 FT	50 FT	100 FT	660 FT	520 FT
60 MPH	720 FT	50 FT	100 FT	720 FT	598 FT
65 MPH	780 FT	50 FT	100 FT	780 FT	682 FT
L FOR MERGE TAPER 1/2L FOR SHIFT TAPER 1/3L FOR SHOULDER TAPER				TANGENT SPACE = 100 FT MIN	

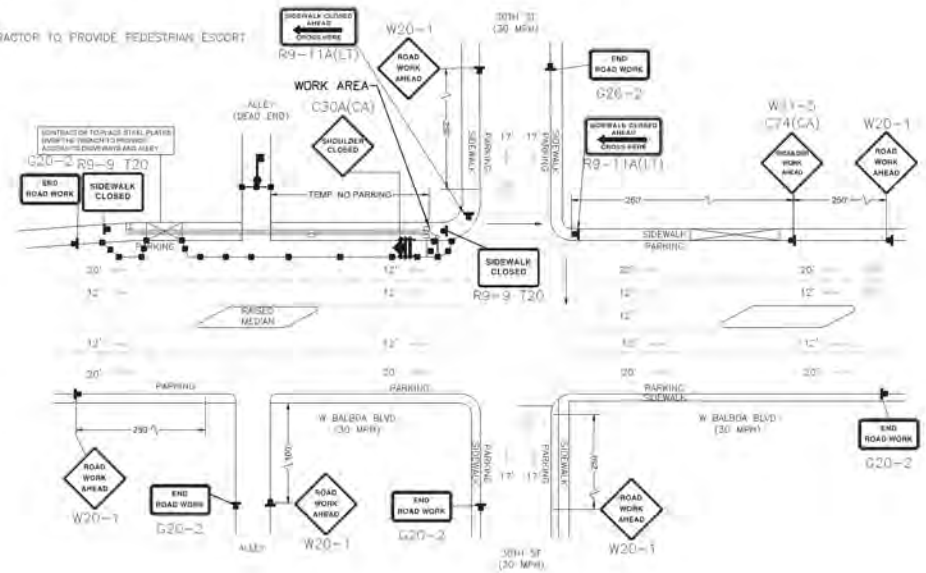
LEGEND	
	FLASHING ARROW SIGN
	CHANNELIZING DEVICE
	HIGH LEVEL WARNING DEVICE W/ PROPOSED SIGN
	PROPOSED SIGN AND POST
	TYPE I BARRICADE
	TYPE I BARRICADE W/ PROPOSED SIGNS
	TYPE III BARRICADE
	TYPE III BARRICADE W/ PROPOSED SIGNS
	SIGNALIZED INTERSECTION
	CONSTRUCTION AREA
	FLAGGER

CITY NOTE:

TRAFFIC CONTROL PLANS ARE NOT TO BE USED FOR CONSTRUCTION AND NEW TCP WILL BE SUBMITTED AND APPROVED AS PART OF THE ENCROACHMENT PERMIT APPLICATION. △1

NOTE:
FLAGGER TO ASSIST VEHICULAR TRAFFIC. USE STEEL PLATES AS NEEDED.

NOTE:
CONTRACTOR TO PROVIDE PEDESTRIAN ESCORT



TRAFFIC CONTROL PLAN

24"x36" SCALE: 1" = 30'-0"
11"x17" SCALE: 1" = 60'-0"

1

at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ERICSSON
330 COMMERCE, STE. 200
IRVINE, CA 92602

M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-9824

DRAWN BY: EG
CHECKED BY: MM

REV	DATE	DESCRIPTION
△1	03/09/2020	100% CD'S REVISED
E	12/06/2019	SCE FINAL POWER
D	10/17/2019	100% CONSTRUCTION
C	09/16/2019	100% CD'S REVISED
B	09/21/2018	100% CONSTRUCTION
A	09/17/2018	90% CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
LOVALL A. WHARTON
C50547
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 03/09/2020
EXPIRATION DATE: 06/30/2021

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.

SITE ID: CSTAM_003A
CITY STREETLIGHT NO. SCL0796
AT THE NW CORNER OF W. BALBOA BLVD. AND 30TH STREET
NEWPORT BEACH, CA, 92663

SHEET TITLE
TRAFFIC CONTROL PLAN

SHEET NUMBER
TC-1