

CALIFORNIA TRANSMISSION NETWORK

SITE ID: 9CAB009081
SITE NAME: SF90XSD37A

SITE LOCATION:
ARIZONA AVE. & VIENNA DR.
MILPITAS, CA 95035

EXISTING METAL STREET LIGHT

CALIFORNIA TRANSMISSION NETWORK

SITE ACQUISITION



2750 Moore Avenue
 Fullerton, CA 92833
 (714) 870-0217

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A&E SERVICES

DRAWN BY:	SASCO
DATE:	10/08/2015

REV	DATE	DESCRIPTION	BY
0	01/26/2016	95% CONSTRUCTION	RY

GENERAL NOTES

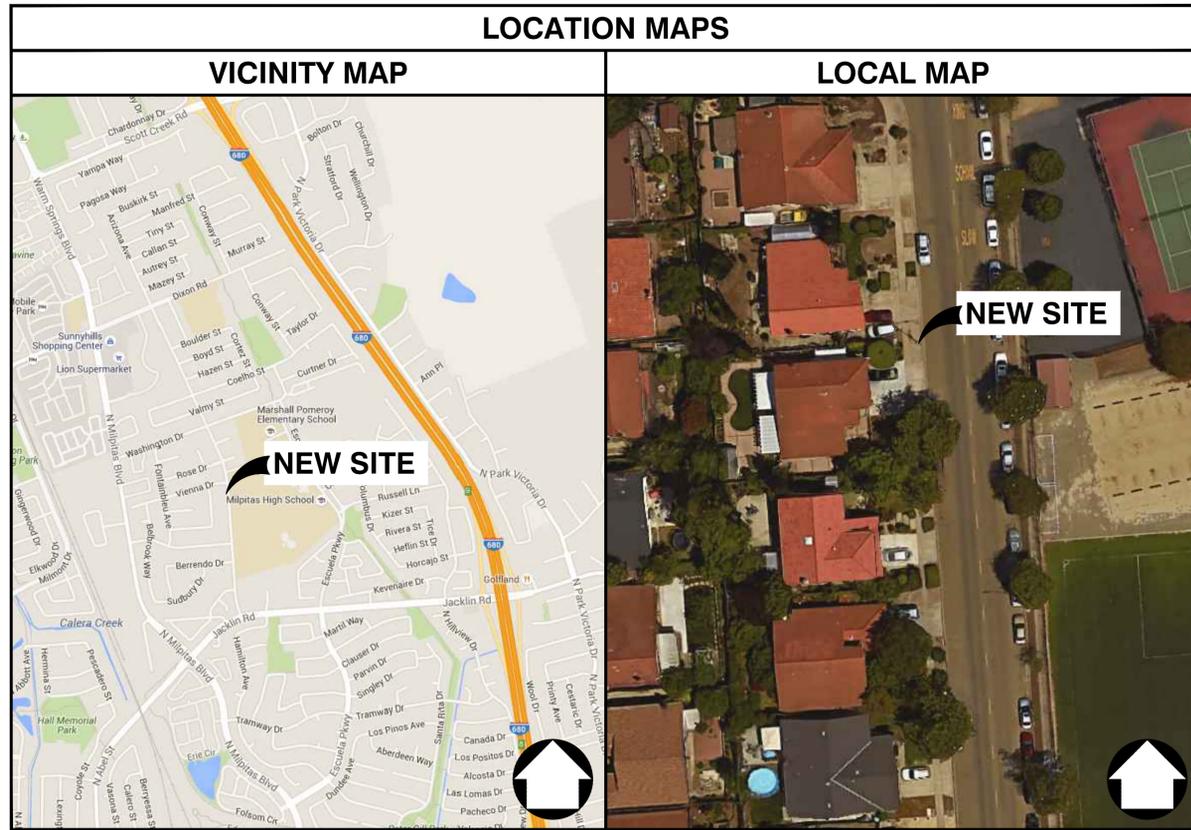
THE FACILITY IS NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

SITE INFORMATION

APPLICANT: CATRANSMISSION NETWORK
 APPLICANT ADDRESS: 3972 BARRANCA PKWY, SUITE J-606 IRVINE, CA 92606
 APPLICANT CONTACT: DAVID DOWNS
 APPLICANT PHONE: (209) 402-7720
 PUBLIC ROW/PRIVATE PROPERTY: PUBLIC ROW
 NEAREST ADDRESS: 1331 ARIZONA AVENUE MILPITAS, CA 95035
 NEAREST APN(S): 026-15-043 37' 27" 3.733" N
 SITE LATITUDE: (37.45103673)
 SITE LONGITUDE: -121° 54' 17.633" W (-121.9048973)
 GIS TYPE: CA83VF (NAD83)
 GROUND ELEVATION: ±574' AMSL
 COUNTY: SANTA CLARA
 JURISDICTION: MILPITAS

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD 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.



PROJECT DESCRIPTION

APPLICANT PROPOSES TO CONSTRUCT A NEW SMALL CELL SITE WITHIN AN EXISTING RIGHT OF WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- ATTACH NEW EQUIPMENT TO EXISTING 26'-0" METAL STREET LIGHT POLE
- INSTALL ONE (1) METER SOCKET
- INSTALL ONE (1) AC DISTRIBUTION PANEL
- INSTALL ONE (1) REMOTE RADIO HEAD
- INSTALL ONE (1) UE RELAY
- INSTALL ONE (1) GPS ANTENNA
- INSTALL ONE (1) OMNI-DIRECTIONAL ANTENNA
- INSTALL ONE (1) NEMA-4X DISCONNECT SWITCH

ENGINEERING

- 2012 INTERNATIONAL BUILDING CODE
- 2014 NATIONAL ELECTRICAL CODE
- TIA/EIA-222-G-2 OR LATEST EDITION
- LOCAL BUILDING/PLANNING CODE

DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES
T-3	GENERAL NOTES
A-1	SITE PLANS
A-2	SOUTH ELEVATIONS
A-3	EAST ELEVATIONS
D-1	EQUIPMENT DETAILS
E-1	ELECTRICAL PLAN
G-1	GROUNDING PLAN
TC-1	TRAFFIC CONTROL PLAN

DESIGN TEAM

CALIFORNIA TRANSMISSION NETWORK
 3972 BARRANCA PKWY, SUITE J-606
 IRVINE, CA 92606
 PM: SYLVETTE CUEZON
 PHONE: (562) 299-3645
 EMAIL: sylvette.cuezon@tbtutility.com

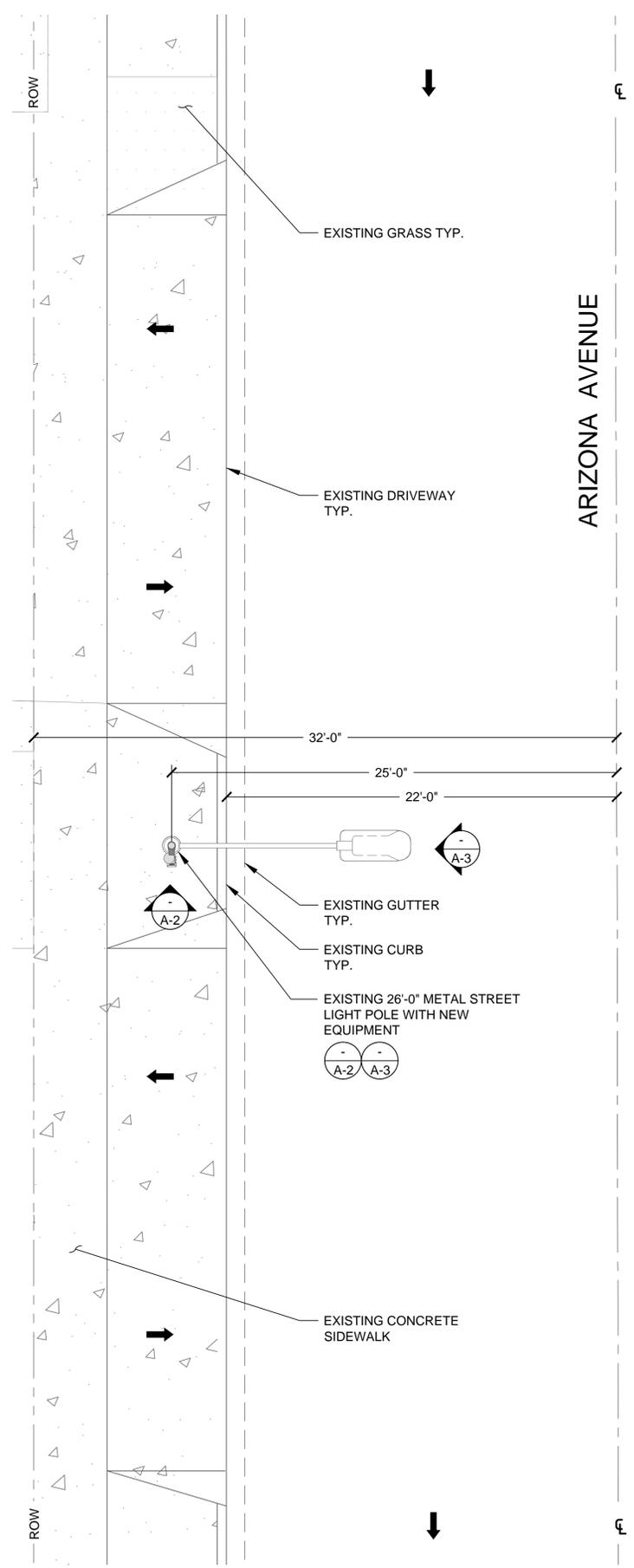


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SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1



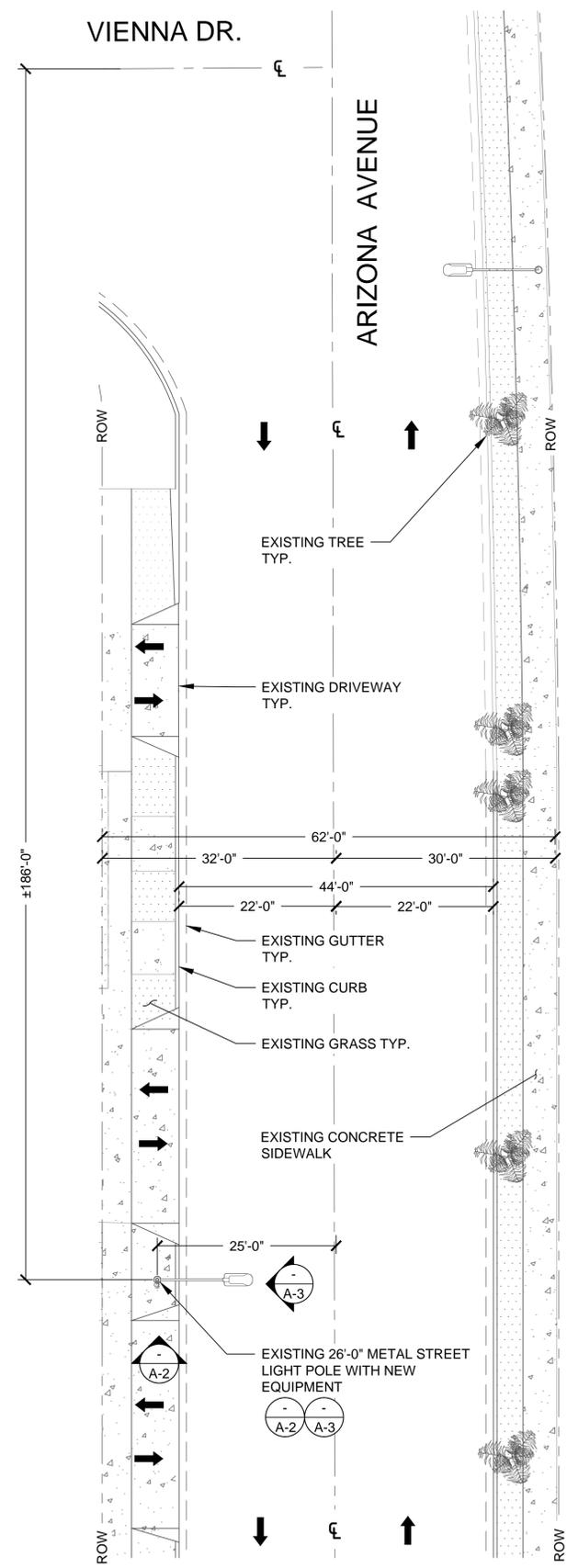
ENLARGED SITE PLAN

24"x36" SCALE: 1/4" = 1'-0"
11"x17" SCALE: 1/8" = 1'-0"



2

SITE PLAN



24"x36" SCALE: 3/32" = 1'-0"
11"x17" SCALE: 3/64" = 1'-0"



1

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SITE ACQUISITION



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SHEET TITLE
SITE PLANS

SHEET NUMBER
A-1

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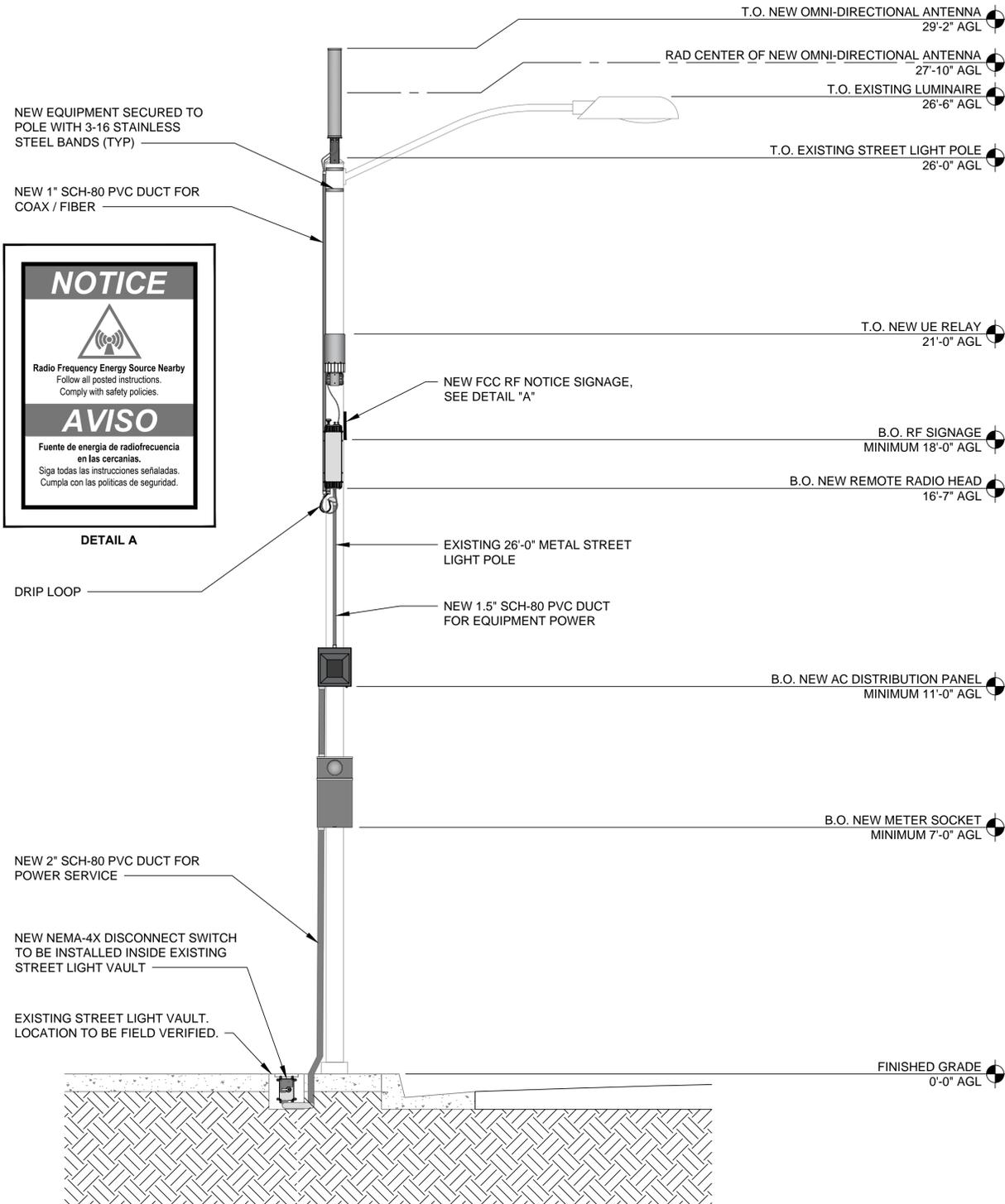
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SHEET TITLE
**SOUTH
ELEVATIONS**

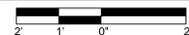
SHEET NUMBER
A-2



EQUIPMENT CHART				
QUANTITY	DESCRIPTION	CABLE LENGTH	DIMENSIONS (HxWxD)	WEIGHT
1	ALPHA WIRELESS AW3398 OMNI-DIRECTIONAL ANTENNA	TBD	25.5" X 4.5"Ø	4.6 LBS
1	AIRSPAN IR460 UE RELAY	TBD	13" X 7"Ø	8.8 LBS
1	TALLYSMAN TW3010/TW3012 GPS ANTENNA	TBD	8" X 2.6Ø	<.2 LBS
1	AIRSPAN AH 1000 REMOTE RADIO HEAD	TBD	21.61" X 5.6" X 8"	24 LBS
1	RAYCAP RSTAC-3111-P-120 AC DISTRIBUTION PANEL	TBD	13.1" X 11.4" X 4.4"	14 LBS
1	EATON U114TB METER SOCKET	TBD	24" X 12" X 4.63"	TBD
1	HUBBELL HBLDS3 NEMA-4X DISCONNECT SWITCH	TBD	7.62" X 5.12" X 4.12"	TBD

NEW SOUTH ELEVATION

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



2

EXISTING SOUTH ELEVATION

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



1

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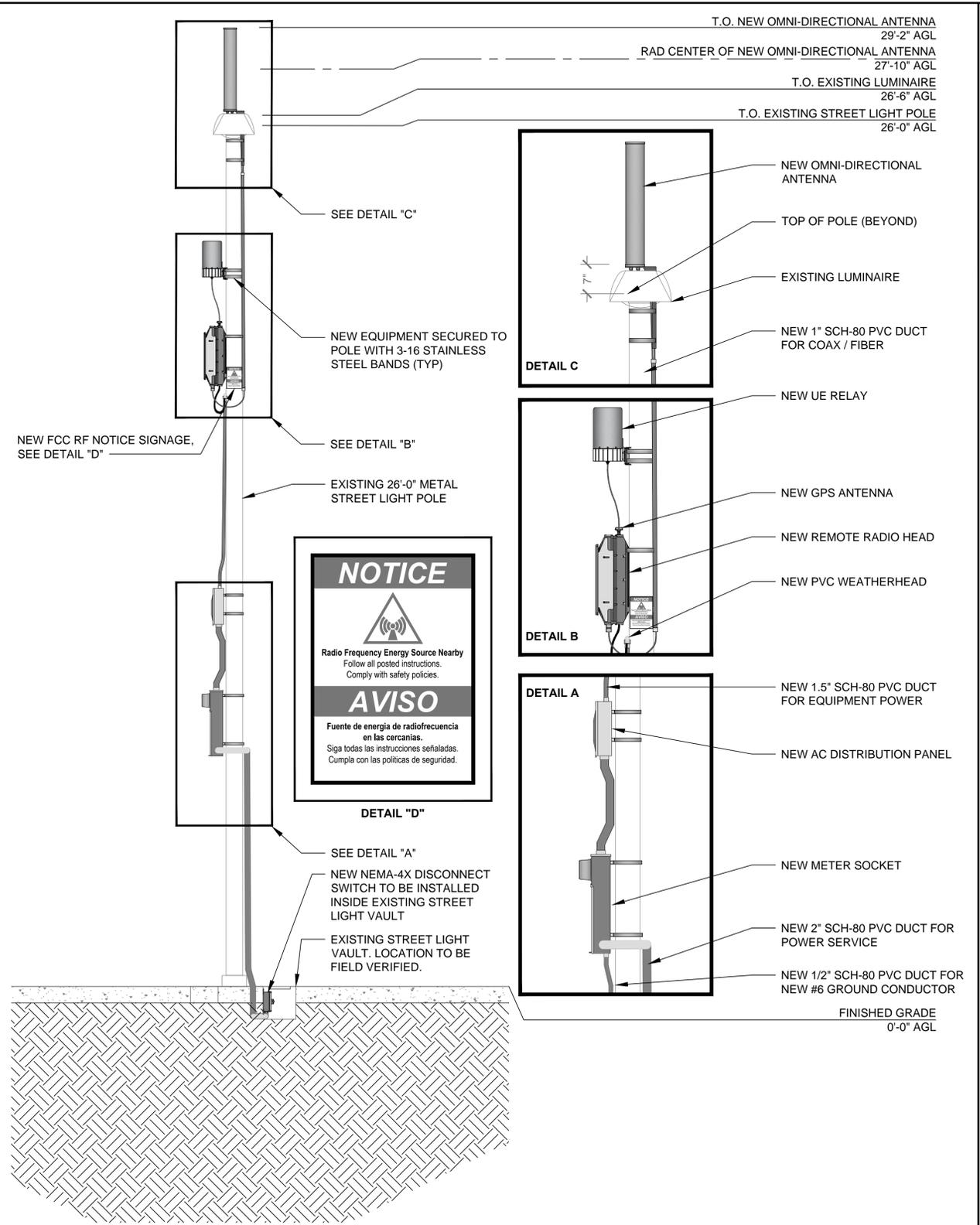
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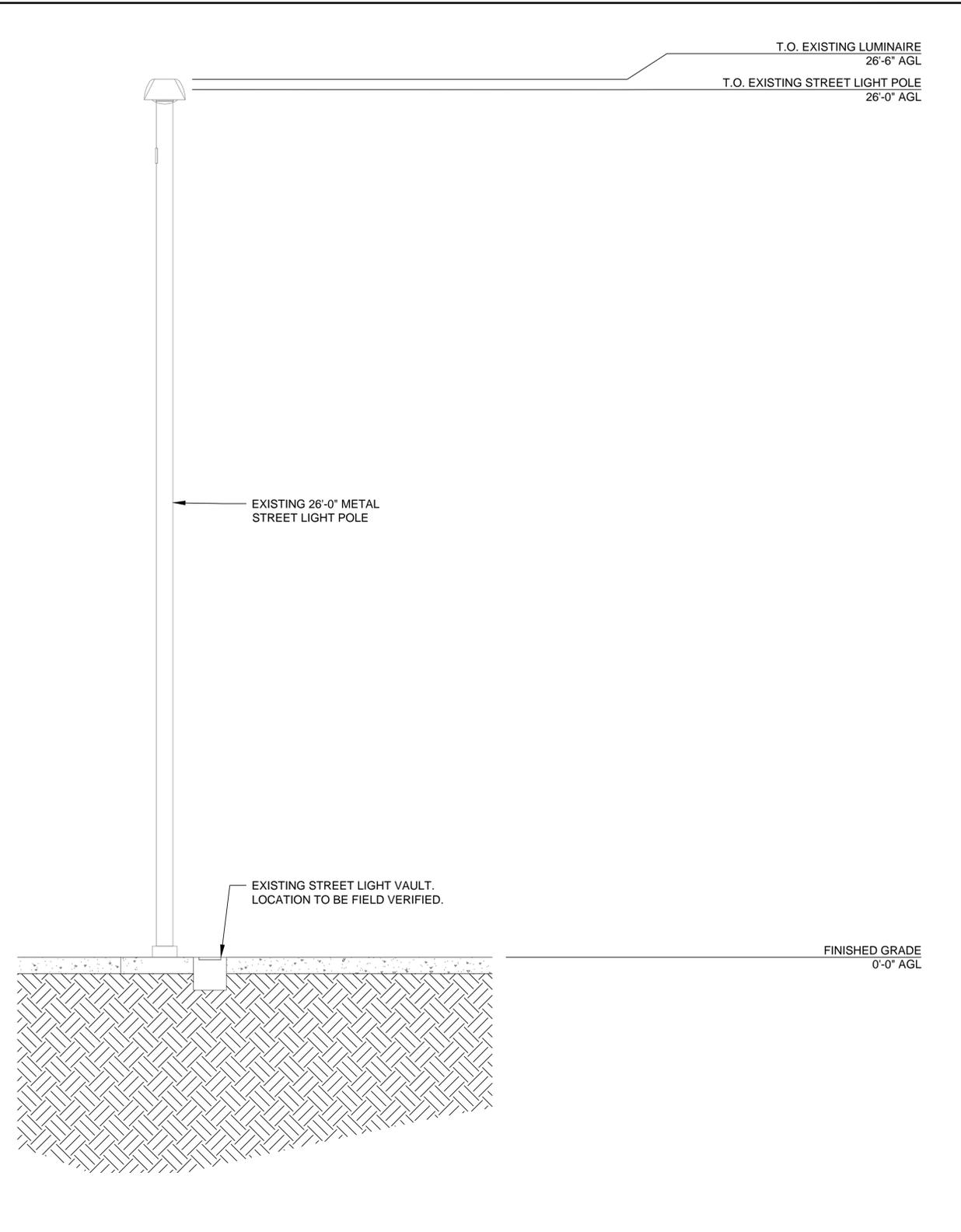
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SHEET TITLE
**EAST
ELEVATIONS**

SHEET NUMBER
A-3



EQUIPMENT CHART				
QUANTITY	DESCRIPTION	CABLE LENGTH	DIMENSIONS (HxWxD)	WEIGHT
1	ALPHA WIRELESS AW3398 OMNI-DIRECTIONAL ANTENNA	TBD	25.5" X 4.5"Ø	4.6 LBS
1	AIRSPAN IR460 UE RELAY	TBD	13" X 7"Ø	8.8 LBS
1	TALLYSMAN TW3010/TW3012 GPS ANTENNA	TBD	8" X 2.6Ø	<.2 LBS
1	AIRSPAN AH 1000 REMOTE RADIO HEAD	TBD	21.61" X 5.6" X 8"	24 LBS
1	RAYCAP RSTAC-3111-P-120 AC DISTRIBUTION PANEL	TBD	13.1" X 11.4" X 4.4"	14 LBS
1	EATON U114TB METER SOCKET	TBD	24" X 12" X 4.63"	TBD
1	HUBBELL HBLDS3 NEMA-4X DISCONNECT SWITCH	TBD	7.62" X 5.12" X 4.12"	TBD



MANUFACTURER: EATON
MODEL: 114TB
(OR APPROVED EQUAL)
HEIGHT: 24 IN
WIDTH: 12 IN
DEPTH: 4.63 IN
WEIGHT: TBA

EATON

PLAN
ELEVATION
SIDE

METER SOCKET SCALE N.T.S. 9

MANUFACTURER: AIRSPAN
MODEL: 402-00-328
(OR APPROVED EQUAL)
HEIGHT: 4.4 IN
WIDTH: 4.9 IN
DEPTH: 1 IN
WEIGHT: 2 LBS

Airspan

PLAN
FRONT
SIDE

POLE CLAMP SCALE N.T.S. 6

MANUFACTURER: AIRSPAN
MODEL: AH 1000
(OR APPROVED EQUAL)
HEIGHT: 21.6 IN
WIDTH: 5.6 IN
DEPTH: 8 IN
WEIGHT: 24 LBS
MOUNT WEIGHT: 2 LBS

Airspan

FRONT
SIDE
PLAN

REMOTE RADIO HEAD SCALE N.T.S. 3

MANUFACTURER: ALPHA WIRELESS
MODEL: AW3398
(OR APPROVED EQUAL)
HEIGHT: 25.5 IN
DIAMETER: 4.5 IN Ø
WEIGHT: 4.6 LBS
MOUNT WEIGHT: 1.1 LB

ALPHA WIRELESS

SIDE
FRONT
PLAN
BOTTOM

OMNI DIRECTIONAL ANTENNA SCALE N.T.S. 1

NOT USED SCALE N.T.S. 10

MANUFACTURER: RAYCAP
MODEL: RSTAC-3111-P-120
HEIGHT: 13.1 IN
WIDTH: 11.4 IN
DEPTH: 4.4 IN
WEIGHT: 14 LBS

Raycap

PLAN
FRONT
BOTTOM
FRONT OPEN

AC DISTRIBUTION PANEL SCALE N.T.S. 7

MANUFACTURER: TALLYSMAR
MODEL: TW3010/TW3012
HEIGHT: .8 IN
DIAMETER: 2.6 IN

Tallysmar

ELEVATION
ATTACHMENT
PLAN

GPS ANTENNA SCALE N.T.S. 4

MANUFACTURER: AIRSPAN
MODEL: iR460
(OR APPROVED EQUAL)
HEIGHT: 13 IN
DIAMETER: 7 IN Ø
DEPTH: 7 IN
WEIGHT: 8.8 LBS

Airspan

ELEVATION
DETAIL A

SHARED POLE STRAP FEATURE
SEE 'DETAIL A'

iRELAY 460 MOUNTING BRACKET

NOT USED SCALE N.T.S. 11

MANUFACTURER: ALPHA WIRELESS
MODEL: AW3398 PTM
(OR APPROVED EQUAL)
HEIGHT: 20 IN
WIDTH: 5 IN
DEPTH: 7 IN
WEIGHT: TBA

ALPHA WIRELESS

PLAN
ELEVATION
FRONT

NOTE: BRACKET SHOWN WITH THROUGH-BOLT CONFIGURATION. OTHER MOUNTING METHODS AVAILABLE.

ANTENNA MOUNT SCALE N.T.S. 8

MANUFACTURER: HUBBELL
MODEL: HBLDS3
(OR APPROVED EQUAL)
HEIGHT: 7.62 IN
WIDTH: 5.12 IN
DEPTH: 4.12 IN
WEIGHT: TBA

HUBBELL

PLAN
FRONT
SIDE

NEMA-4X DISCONNECT SWITCH SCALE N.T.S. 5

MANUFACTURER: AIRSPAN
MODEL: MC40200285 OR MC40200284
(OR APPROVED EQUAL)
HEIGHT: 5.6 IN
WIDTH: 7.1 IN
DEPTH: 1.5 IN
WEIGHT: 2 LBS

Airspan

SIDE
FRONT

UE RELAY SCALE N.T.S. 2

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SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
D-1

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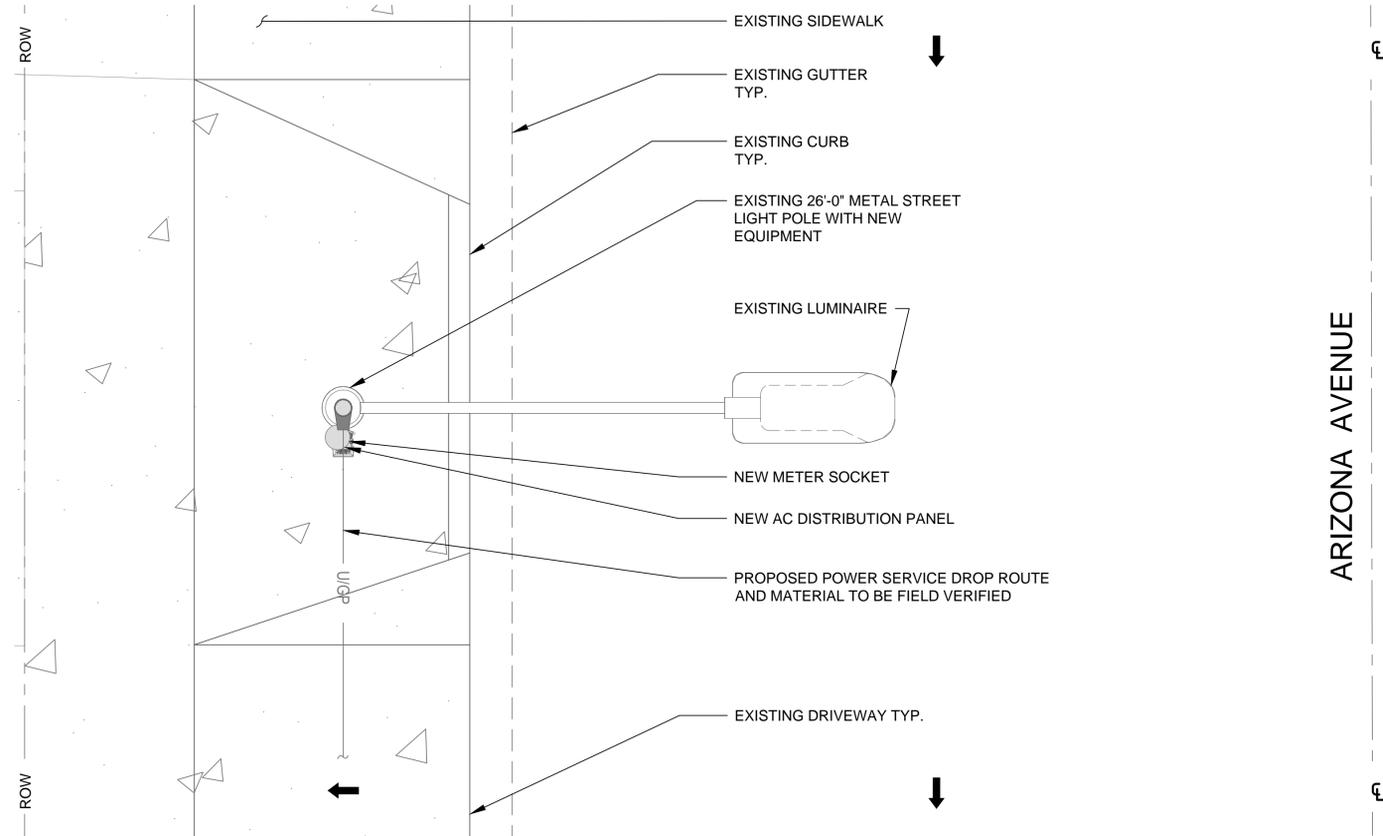
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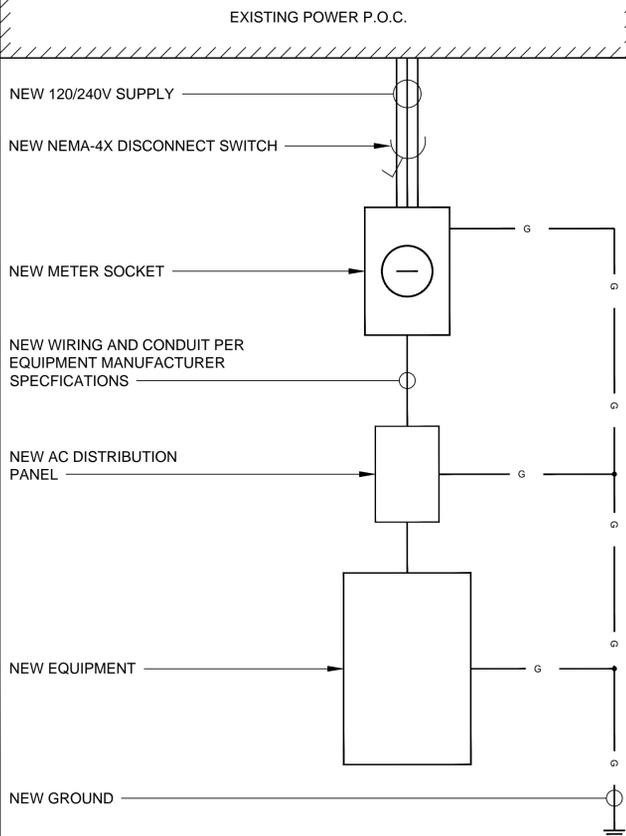


PRELIMINARY UTILITY PLAN

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



1

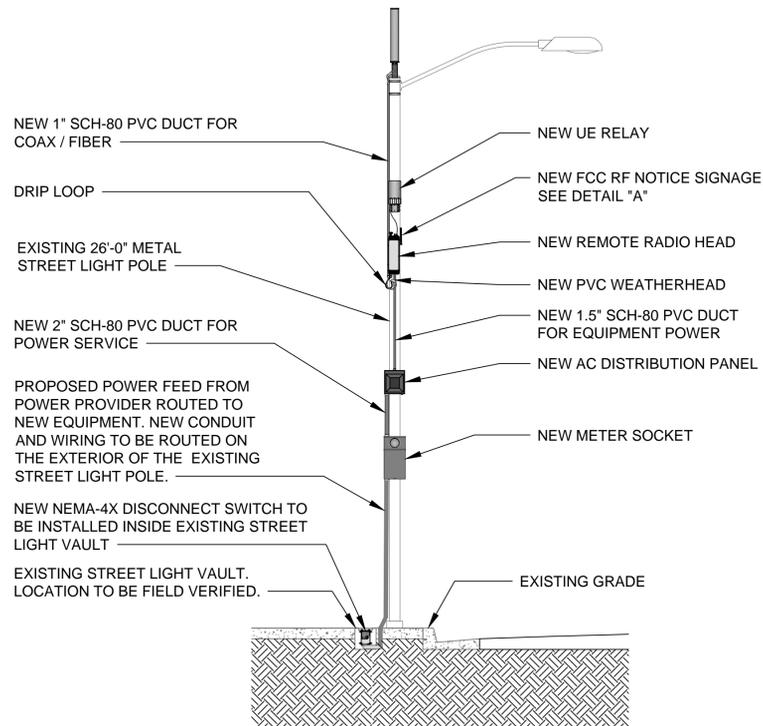


ONE-LINE DIAGRAM

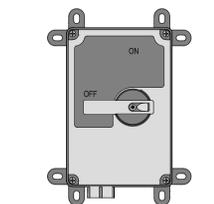
24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

PRELIMINARY UTILITY ELEVATION - SOUTH



DETAIL A



FRONT PANEL
DISCONNECT SWITCH PANEL

SITE ID: 9CAB009081

1331 ARIZONA AVE.
CONTACT EQUIPMENT OWNER 24 HOURS
PRIOR TO SHUTDOWN AT:
1-800-123-4567
CONTACT EQUIPMENT OWNER UPON
COMPLETION OF WORK. RE-ENERGIZE
WITH PRIOR WRITTEN CONSENT OF
SPRINT ONLY.

MINIMUM APPROACH DISTANCE TO
PRIMARY ANTENNA: **4.14ft**
SECONDARY ANTENNA: **1.31ft**

DISCONNECT SWITCH PANEL DETAILS

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



2

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SHEET TITLE
ELECTRICAL PLAN

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E-1

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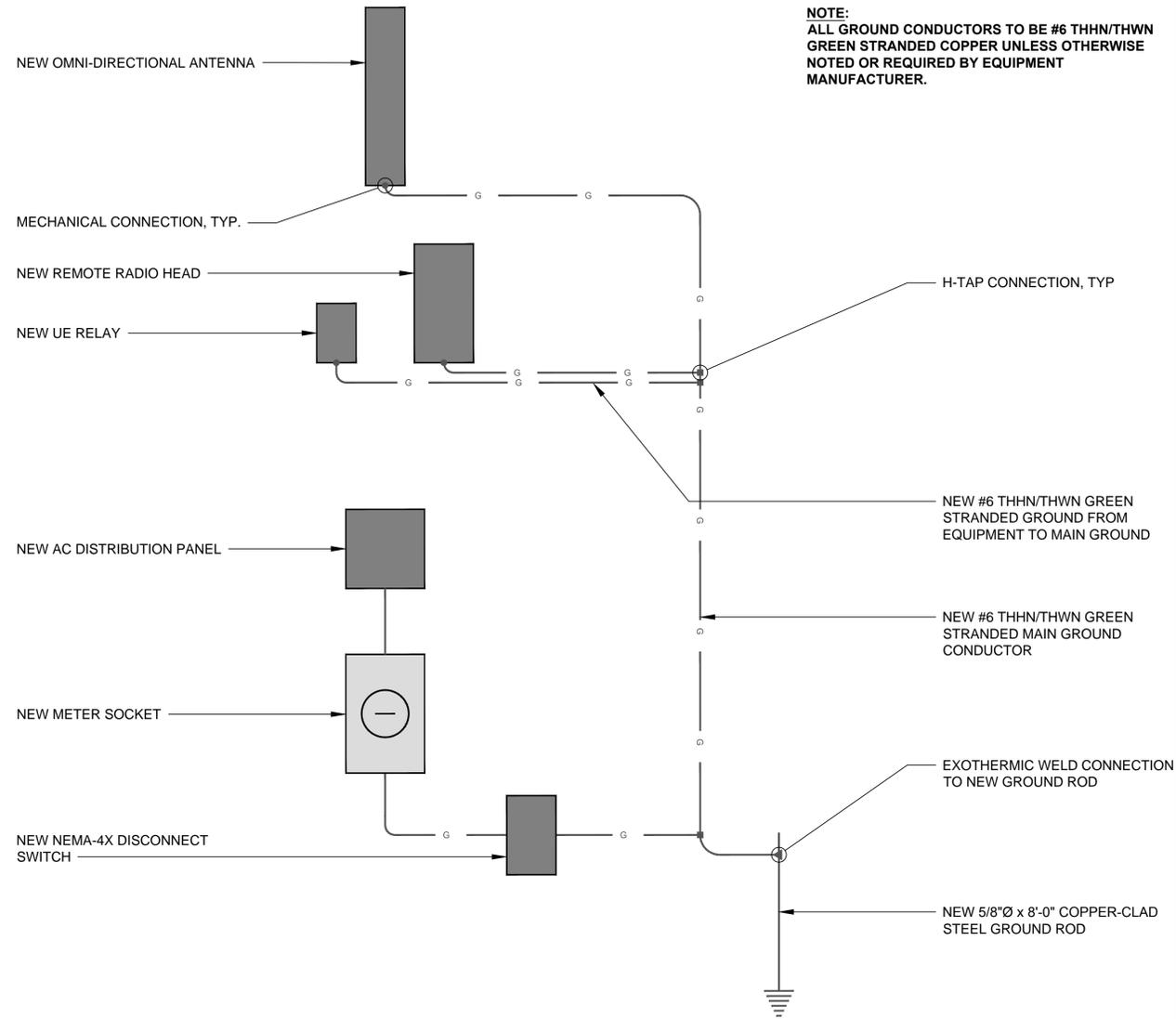
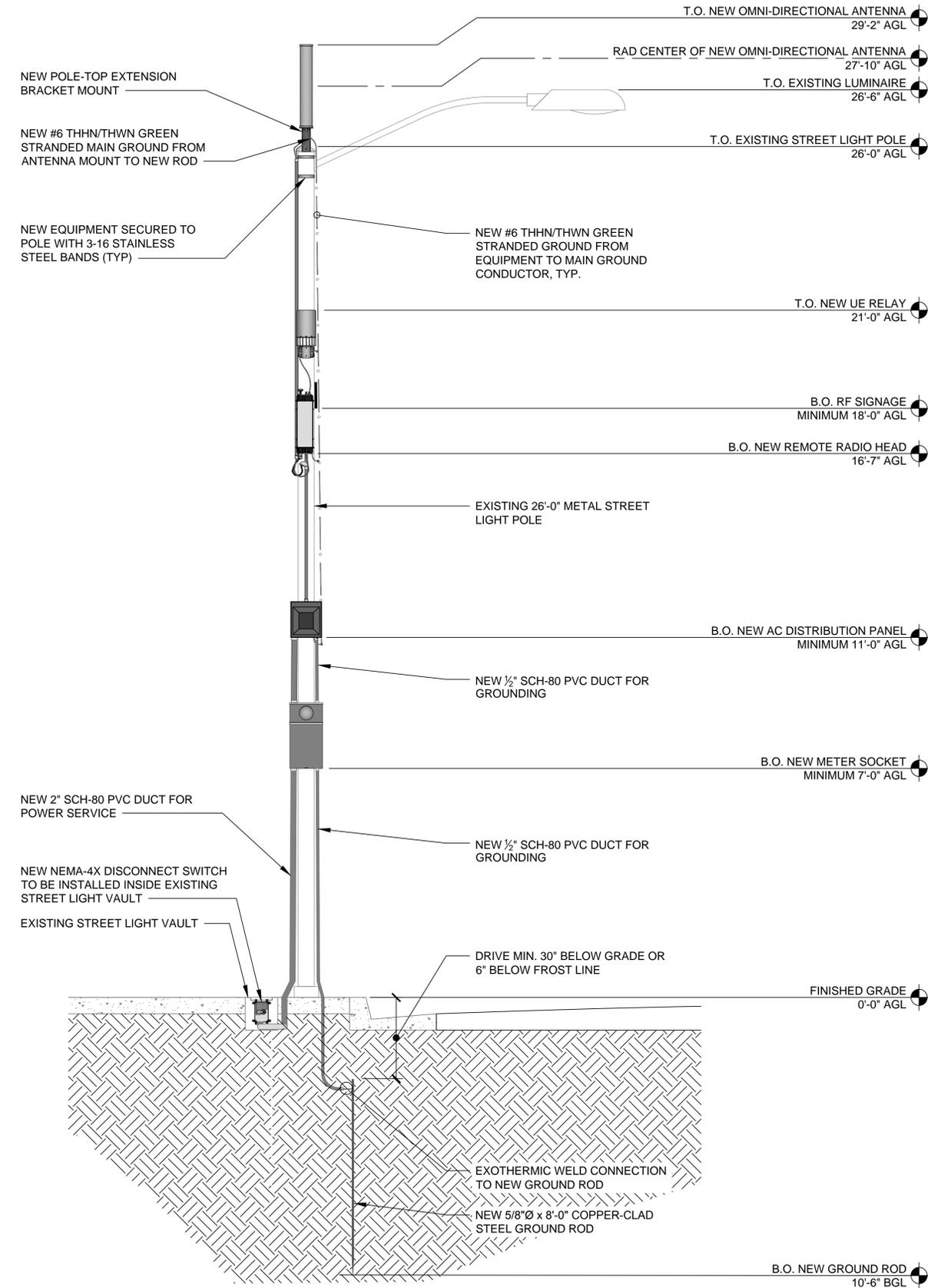
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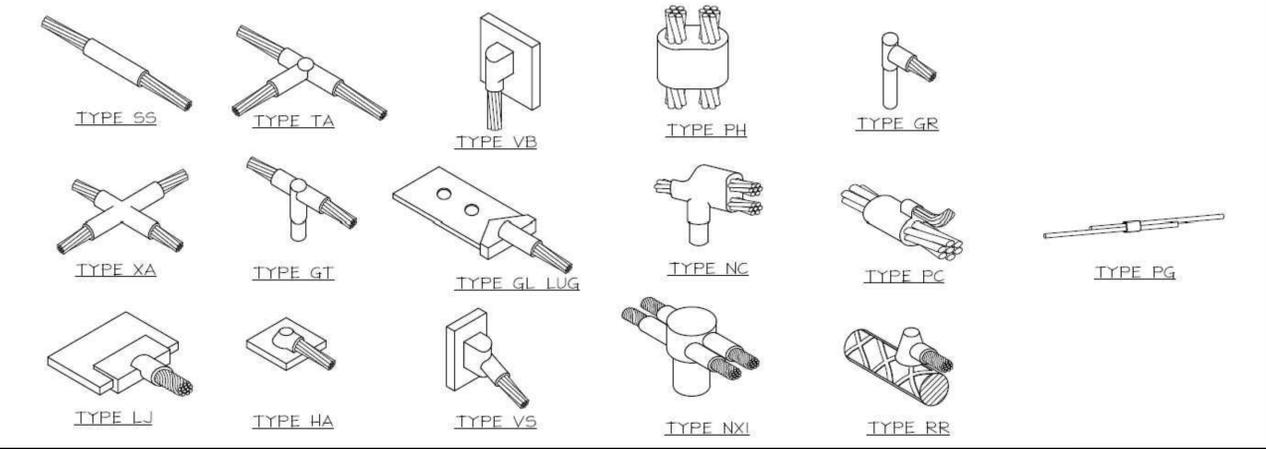
SHEET TITLE
**GROUNDING
PLAN**

SHEET NUMBER
G-1



NOTE:
ALL GROUND CONDUCTORS TO BE #6 THHN/THWN GREEN STRANDED COPPER UNLESS OTHERWISE NOTED OR REQUIRED BY EQUIPMENT MANUFACTURER.

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



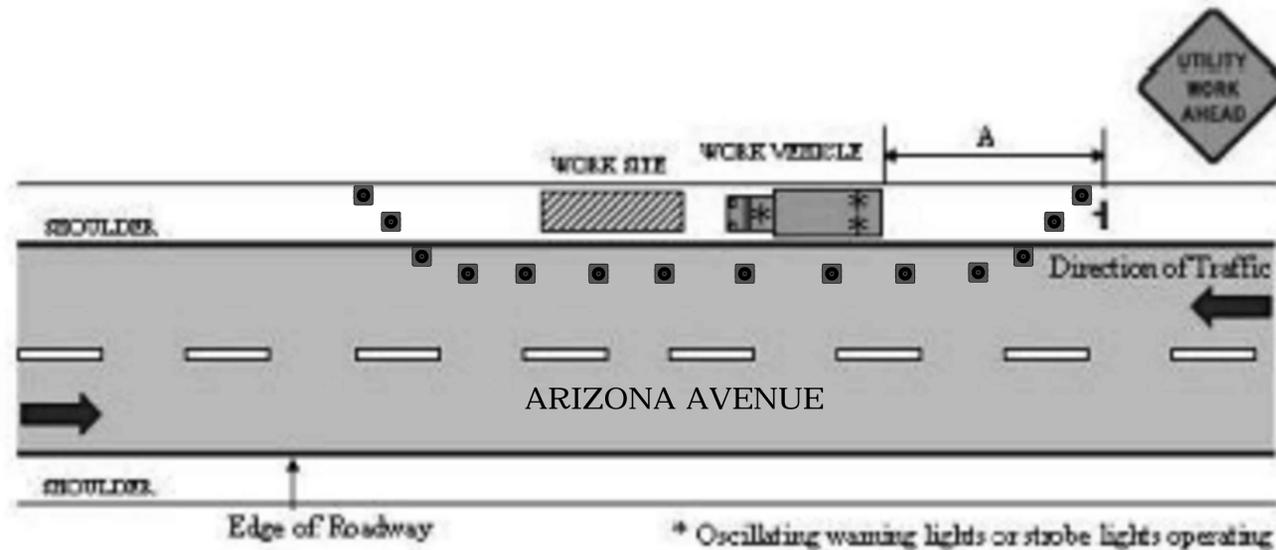
TYPICAL CADWELD TYPES 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2

- GROUND BONDS:** ALL BONDS ARE TO BE MADE WITH #6 AWG STRANDED COPPER IN GREEN INSULATION. (ATT-TP-76416 7, 6.7)
- EXTERIOR UNIT BONDS:** ALL METALLIC OBJECTS SHALL BE BONDED TO THE GROUND ROD. (ATT-TP-76416 7, 12.6)
- GROUND ROD:** UL LISTED COPPER CLAD STEEL GROUND ROD WITH MINIMUM DIAMETER OF 5/8" AND MINIMUM LENGTH OF 8 FEET. ALL GROUND RODS MAY BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 30" BELOW GRADE OR 6 INCHES BELOW FROST LINE. (ATT-TP-76416 1.4 / 2.2, 3, 10)

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

GROUNDING SCHEMATIC 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4

Utility Work On Shoulder (Low Traffic Volume And Low Speed)



Unit Selected	Feet
A (Distance Between Signs)	100

Speed (MPH)	Spacing (ft.)			
	A	B	C	D
40 or less	200	200	200	100
41 to 49	350	350	350	175
50 to 54	500	500	500	250
55 or greater	2640	1640	1000	500

Speed (MPH)	Distance (ft.)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

- * "ROAD WORK 1 MILE" sign may be used as an alternate to the "ROAD WORK AHEAD" sign
- ** 500' beyond the "ROAD WORK AHEAD" sign or midway between signs, whichever is less
- *** "BE PREPARED TO STOP" sign may be omitted for speeds of 45 MPH or less

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the opposite lane open to traffic.
- Additional one-way control may be effected by the following means:
 - Flag-carrying vehicle
 - Official vehicle
 - Pilot vehicle
 - Traffic signal
- The "ONE LANE ROAD" signs are to be fully covered and the "FLAGGER" signs either removed or fully covered when no work is being performed and the roadway is open to two-way traffic
- When a side road intersects the roadway within the TTC zone, additional TTC devices shall be placed in accordance with applicable TCZ Indexes.
- The two channelizing devices directly in front of the work area and the one channelizing device directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- For general TCZ requirements and additional information, refer to MUTCD.

DURATION NOTES

- "ROAD WORK AHEAD" and the "BE PREPARED TO STOP" signs may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less
 - Speed limit is 45 MPH or less
 - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating
 - Volume and complexity of the roadway has been considered

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY

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SITE NAME: SF90XSD37A
ARIZONA AVE. & VIENNA DR.
MILPITAS, CA 95035
EXISTING METAL STREET LIGHT

SHEET TITLE
TRAFFIC CONTROL PLAN

SHEET NUMBER
TC-1