



at&t

QUEST DIAGNOSTICS 33608 ORTEGA HIGHWAY SAN JUAN CAPISTRANO, CALIFORNIA 92675

PROPRIETARY INFORMATION

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STAMP



PREPARED FOR



APPROVALS

GAMALIEL AGUILAR	03/24/23
90% ZDS	DATE
GAMALIEL AGUILAR	04/05/23
95% ZDS	DATE
JENNIFER GUERRA	06/26/23
100% ZDS	DATE
CONSTRUCTION	
KATHI RUEHLE	07/07/23
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

SITE NAME
QUEST DIAGNOSTICS

33608 ORTEGA HIGHWAY
SAN JUAN CAPISTRANO, CALIFORNIA 92675

DRAWING DATES

03/25/23	90% ZD REVIEW (P1-B1)
04/05/23	95% ZD REVIEW (P1-B2)
04/19/23	95% ZD REVIEW (P1-B3)
04/23/23	95% ZD REVIEW (P1-B4)
06/13/23	95% ZD REVIEW (P1-B5)
06/26/23	100 ZD REVIEW (P1-B6)
07/13/23	ZONING SUBMITTAL (P1-B7)
08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE

TITLE SHEET

T-1

SPECIAL INSPECTIONS

1 CONCRETE BOLTS INSTALLED IN CONCRETE	13.1 VERIFY SOIL CONDITIONS ARE SUBSTANTIALLY IN CONFORMANCE WITH THE SOIL INVESTIGATION REPORT
2 CONCRETE MOMENT-RESISTING SPACE FRAME	13.2 VERIFY THAT FOUNDATION EXCAVATIONS EXTEND TO PROPER DEPTH AND BEARING STRATA
3 REINFORCING STEEL AND PRESTRESSING STEEL	13.3 PROVIDE SOIL COMPACTION TEST RESULTS, DEPTH OF FILL, RELATIVE DENSITY, BEARING VALUES
5.1 ALL STRUCTURAL WELDING	13.4 PROVIDE SOIL EXPANSION TEST RESULTS, EXPANSION INDEX, RECOMMENDATIONS FOR FOUNDATIONS, ON-GRADE FLOOR SLAB DESIGN FOR EACH BUILDING SITE
5.2 WELD TESTING DUCTILE MOMENT-RESISTING STEEL FRAME	14 SMOKE CONTROL SYSTEM
5.3 WELDING REINFORCING STEEL	15 SPECIAL GASES (DESCRIBE)
6 HIGH-STRENGTH BOLTING	16 OFF-SITE FABRICATION OF BUILDING COMPONENTS
7 STRUCTURAL MASONRY	17 OTHER SPECIAL INSPECTIONS AS REQUIRED BY DESIGNER
8 REINFORCED GYPSUM CONCRETE	
9 INSULATING CONCRETE FILL	
10 SPRAY-APPLIED FIREPROOFING	
11 DEEP FOUNDATIONS (PILING, DRILLED & CAISSONS)	
12 SHOTCRETE	

NO.	DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS.

CONSULTANT TEAM

CLIENTS REPRESENTATIVE:

MASTEC NETWORK SOLUTIONS
125 KLUG CIRCLE
CORONA, CALIFORNIA 92880
CONTACT: SCOTT LINDBECK
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ENGINEERING:

MASTEC NETWORK SOLUTIONS
507 AIRPORT BLVD, SUITE 111
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EMAIL: RAPHAEL.MOHAMED@MASTEC.COM

SITE ACQUISITION:

MASTEC NETWORK SOLUTIONS
125 KLUG CIRCLE
CORONA, CALIFORNIA 92880
CONTACT: KATHI RUEHLE
PHONE: (949) 637-9674
EMAIL: KATHI.RUEHLE@MASTEC.COM

DEVELOPMENT SUMMARY

APPLICANT: AT&T MOBILITY
1452 EDINGER AVENUE, 3RD FLOOR
TUSTIN, CALIFORNIA 92780

PROPERTY OWNER: QUEST DIAGNOSTICS
33608 ORTEGA HIGHWAY
SAN JUAN CAPISTRANO, CALIFORNIA 92675

TOWER OWNER: AT&T

OTHER ON-SITE TELECOM FACILITIES: TBD

ASSESSORS PARCEL NUMBER: 125-140-19

LATITUDE: 33° 33' 41.2056"N 33.56145°

LONGITUDE: 117° 32' 33.1980"W -117.54256°

LAT/LONG TYPE: NAD-83

ELEVATION: ±621.3' AMSL

EXISTING ZONING: R/OPS (C33412) (SR)

PROPOSED PROJECT AREA: NO INCREASE IN S.F.

EXISTING TYPE OF CONSTRUCTION: TYPE V-B

PROPOSED TYPE OF CONSTRUCTION: TYPE V-B

EXISTING OCCUPANCY: U

PROPOSED OCCUPANCY: U

JURISDICTION: ORANGE COUNTY

SHEET INDEX

T-1	TITLE SHEET
T-2	SPECIFICATIONS AND NOTES
LS-1	SITE SURVEY
A-0	SITE PLAN -- PROPERTY LINES
A-0.1	SITE PLAN
A-1	ENLARGED SITE PLAN
A-1.1	COMPOUND PLAN
A-2	EXISTING ELEVATION
A-2.1	PROPOSED ELEVATION
A-3	ANTENNA DETAILS
A-3.1	DETAILS
A-3.2	DETAILS
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A-4	SPECIFICATIONS
A-4.1	SPECIFICATIONS
G-1	GROUNDING PLAN AND DETAILS
TOWER DRAWINGS	
PF1	TITLE SHEET
PF2	POLE ELEVATION
PF3	DETAILS
PF4	DETAILS

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- 2022 CALIFORNIA BUILDING CODE AND LOCAL AMENDMENTS
- 2022 CALIFORNIA MECHANICAL CODE AND LOCAL AMENDMENTS
- 2022 CALIFORNIA ELECTRIC CODE AND LOCAL AMENDMENTS
- 2022 CALIFORNIA PLUMBING CODE AND LOCAL AMENDMENTS
- 2022 CALIFORNIA FIRE CODE AND LOCAL AMENDMENTS
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA REFERENCED STANDARD CODE
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2021 INTERNATIONAL BUILDING CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION

AT&T MOBILITY PROPOSES TO MODIFY AN EXISTING UNMANNED WIRELESS COMMUNICATIONS FACILITY. THIS MODIFICATION WILL CONSIST OF THE FOLLOWING:

- MONOPOLE:**
- INSTALL NEW 70'-0" TALL MONO-EUCALYPTUS.
 - INSTALL NEW AT&T 3'-0" MICROWAVE ANTENNA AT 62'-7" RAD-CENTER.
 - INSTALL NEW (2) NOKIA UBT-S ODU'S.
 - INSTALL NEW (2) 3CC52210BAACHDZZA.
 - INSTALL NEW (2) ICOM COAX (1AC041350001).

- EQUIPMENT AREA**
- INSTALL NEW 4'-0" X 4'-0" CONCRETE PAD.
 - INSTALL NEW (1) FLX-25 PURCELL CABINET ON NEW CONCRETE PAD.

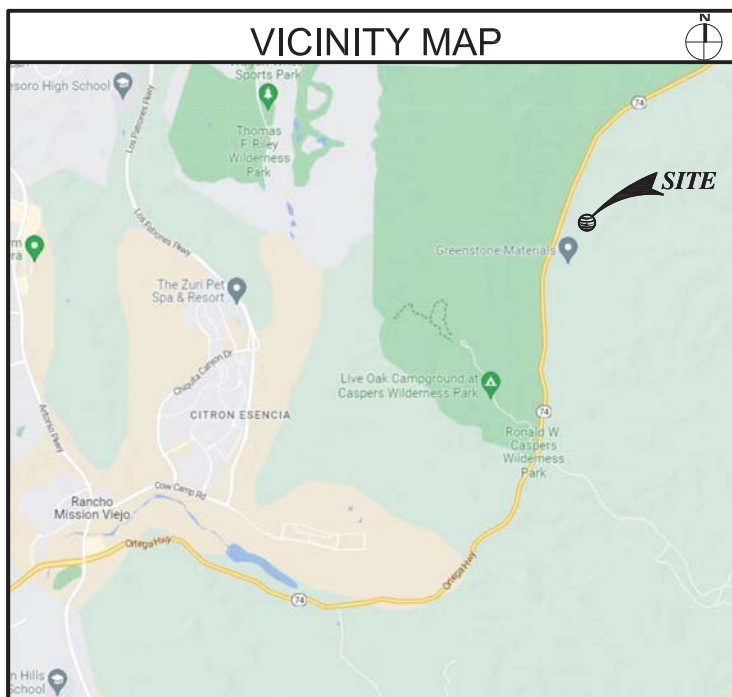
FINAL DESIGN; (1) MONO-EUCALYPTUS, (1) MICROWAVE, (2) ODU'S, (2) FIBER AND (2) COAX.

ACCESSIBILITY DISCLAIMER

THIS PROJECT IS AN UNOCCUPIED WIRELESS PCS TELECOMMUNICATIONS FACILITY AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

SCALE

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 11"x17" OR 24"x36" FORMAT. IF THIS DRAWING SET IS NOT 11"x17" OR 24"x36", THIS SET IS NOT TO SCALE.

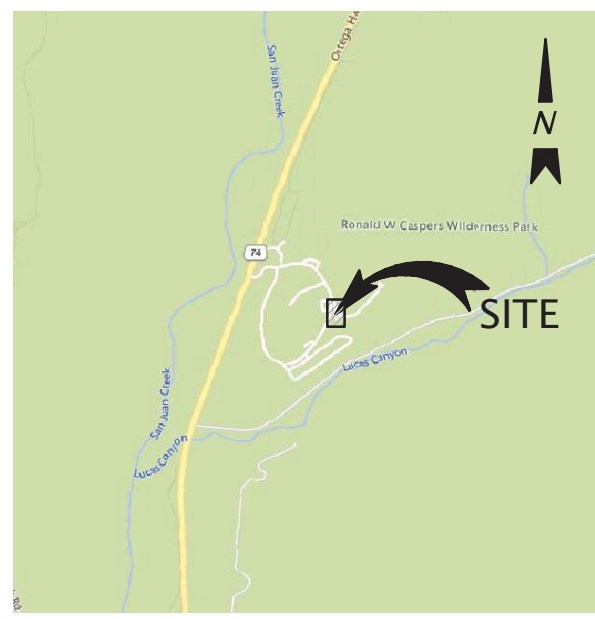




0 10 20 40 60
Scale 1" = 20'

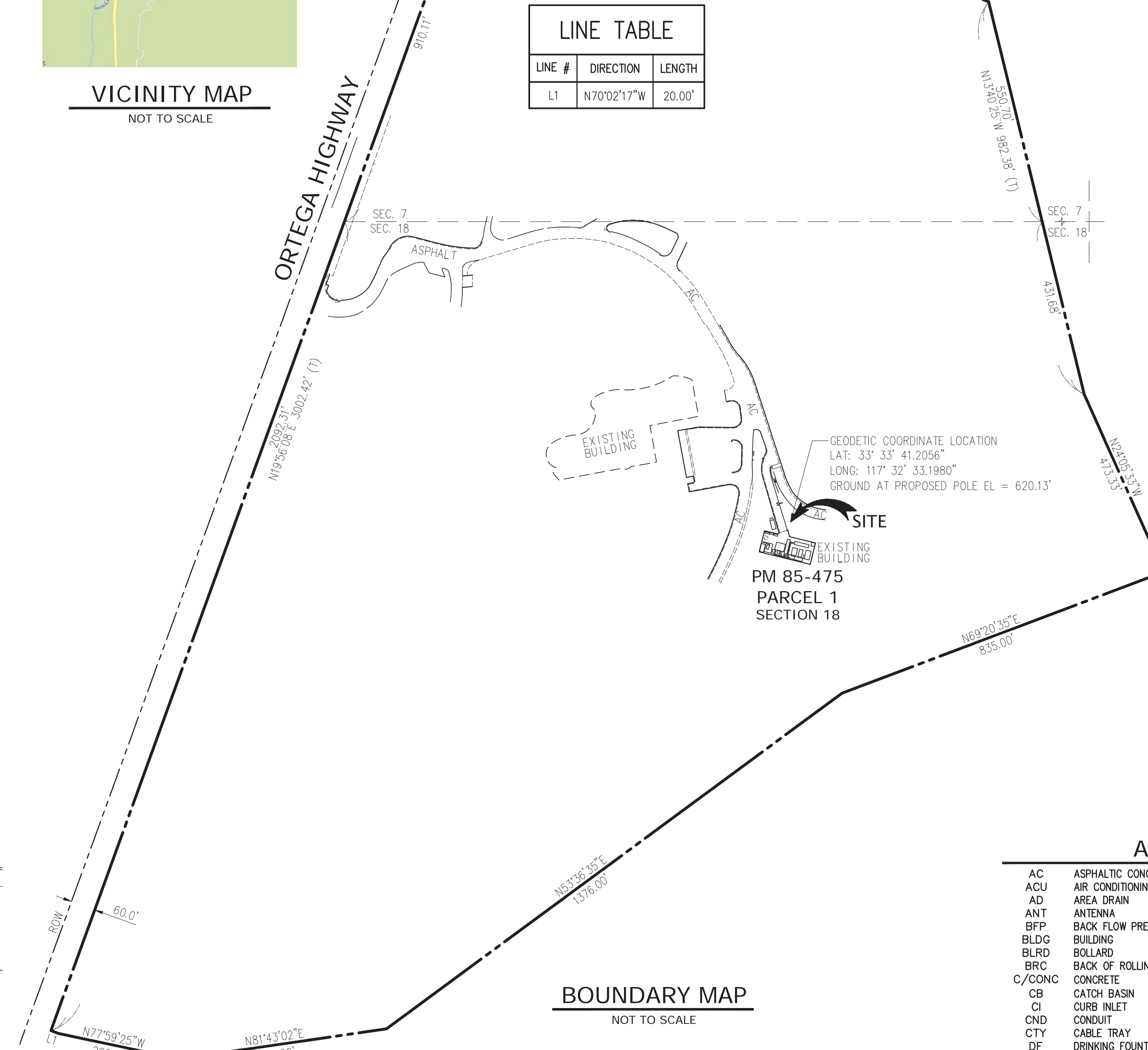
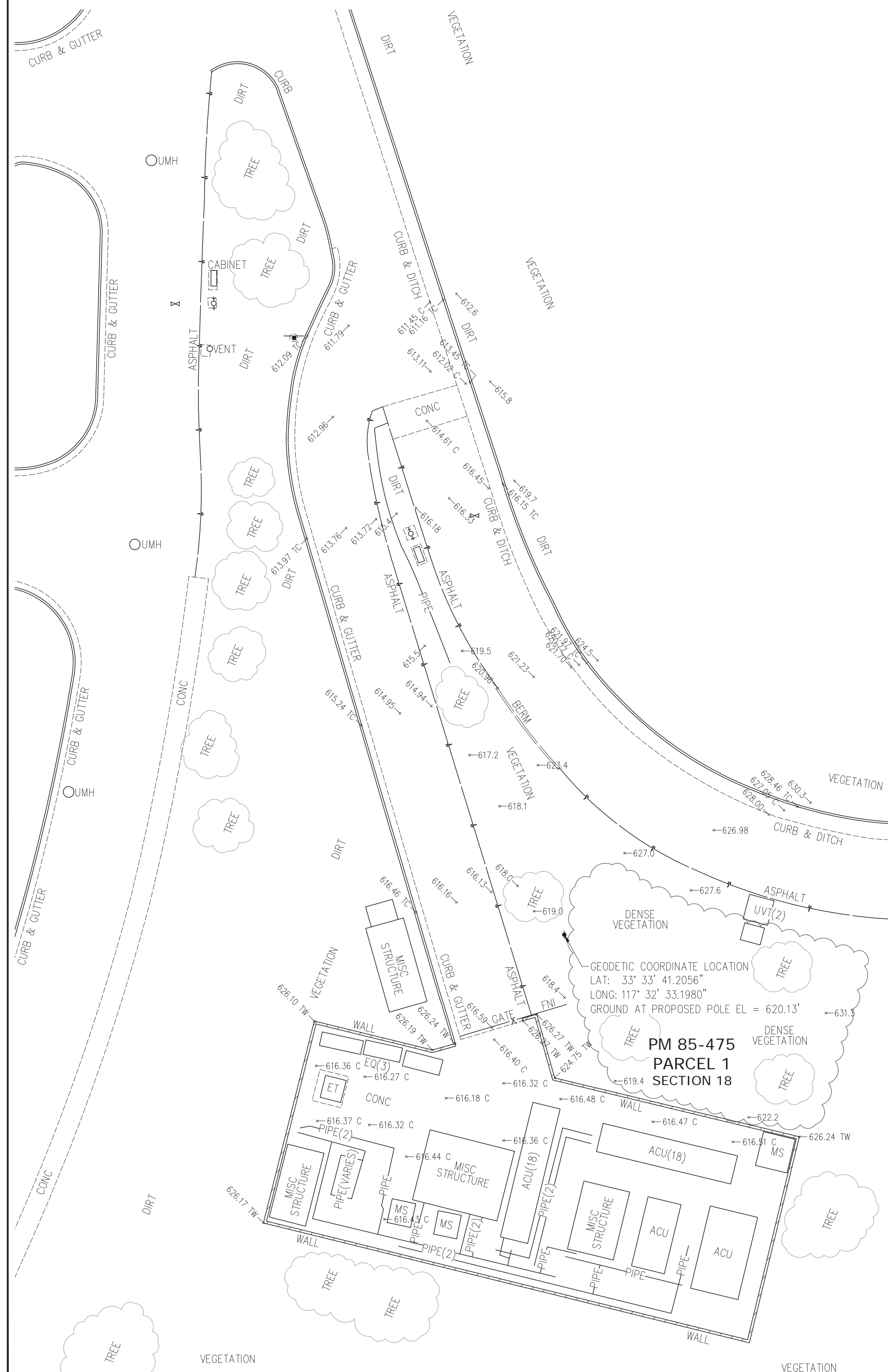
TITLE REPORT

A TITLE REPORT WAS NOT PROVIDED TO THE UNDERSIGNED FOR REVIEW



VICINITY MAP
NOT TO SCALE

LINE #	DIRECTION	LENGTH
L1	N70°02'17"W	20.00'



BOUNDARY MAP
NOT TO SCALE

BASIS OF BEARINGS

THE BASIS OF BEARINGS IS THE BEARING FROM CALIFORNIA REAL TIME NETWORK (CRTN) STATIONS SANJUANCRKCS2005/P471 AND ELSINORE 2 GPS/ELSG. COORDINATES SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 6, (EPOCH 2017.50) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY ON FIELD OBSERVED TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE NETWORK, OR EQUIVALENT STATIONS:

STATION	NORTHING	EASTING	ELEVATION
P471	2,150,595.4741	6,168,438.8868	686.74 FEET (NAVD88)
ELSG	2,181,843.0390	6,203,779.5841	2,772.38 FEET (NAVD88)

MAPPING STATION	MAPPING ANGLE	GRID COMBINATION FACTOR	NORTHING ACCURACY	EASTING ACCURACY
P471	-00°42'33.65"	0.999934509	2.08 MM	2.05 MM

CSRS PUBLISHED ACCURACY IS BASED ON 2 SIGMA (95%) CONFIDENCE FOR NETWORK IN ACCORDANCE WITH REFERENCE 8813.3, 8815.1 AND 8815.5 OF THE PUBLIC RESOURCES CODE. DISTANCES, IF ANY, SHOWN HEREON ARE GROUND DISTANCES. TO APPROXIMATE CCS83 GRID DISTANCES MULTIPLY THE DISTANCES BY THE COMBINATION FACTOR PROVIDED ABOVE.

BENCHMARK

THE ELEVATIONS USED FOR THIS SURVEY ARE NAVD88 BASED LOCALLY ON CALIFORNIA SPATIAL REFERENCE STATION P471. 686.74 FEET (NAVD88).

DATE OF SURVEY

THE SURVEY DATA DEPICTED HEREON WAS OBTAINED ON: MAY 10, 2023.

SURVEYOR'S CERTIFICATE

THIS SURVEY WAS PREPARED BY ME, OR UNDER MY DIRECTION AND IS BASED ON A FIELD SURVEY.

PREPARED BY OR UNDER THE SUPERVISION OF
CASEY R. LYNCH, P.L.S. 8380
CLYNCH@KIERWRIGHT.COM

5-18-2023
DATE

LEGEND

- ASBUTTER'S RIGHTS RELINQUISHED
- ASPHALT BERM
- BARRICADE
- BUILDING LINE
- BUILDING OVERHANG LINE
- CENTER LINE
- COMMUNICATION LINE
- CONCRETE/BLOCK WALL
- CONCRETE CURB
- CONCRETE CURB & GUTTER
- CONTOUR LINE-MAJOR
- CONTOUR LINE-MINOR
- DRIVEWAY
- EASEMENT LINE
- EDGE OF PAVEMENT
- EDGE OF WATER/FLOWLINE
- EDGE OF ROCK
- ELECTRIC LINE
- FEMA FLOOD ZONE
- FENCE LINE
- FIBER OPTICS LINE
- FIRE SERVICE LINE & VALVE
- GAS LINE-VALVE & METER
- GUARD RAIL
- HANDRAIL
- LOT LINE
- MONUMENT/MONUMENT LINE
- PROPERTY LINE
- OVERHEAD POWER LINE
- RECLAIMING WALL
- RECLAIMED WATER LINE & VALVE
- SANITARY SEWER LINE-MANHOLE & CLEANOUT
- SIDEWALK
- SPOT ELEVATION
- STORM DRAIN
- LINE-MANHOLE & CATCH BASIN
- STORM DRAIN
- LINE-MANHOLE & CATCH BASIN
- STREET LIGHT CONDUIT LINE
- TELEPHONE LINE
- TRAFFIC SIGNAL CONDUIT LINE
- ACCESSIBLE PARKING SYMBOL
- AREA DRAIN
- BACKFLOW PREVENTION DEVICE
- BLOWOFF VALVE
- ELECTROLIER
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- GAS METER
- GUY ANCHOR
- POWER POLE/JOINT POLE
- TRANSFORMER
- TRANSMISSION TOWER
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGN
- TREE
- UTILITY BOX
- WALK-BOLLARD LIGHT
- WATER VALVE
- WELL

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	LAT	LATITUDE
ACU	AIR CONDITIONING UNIT	LONG	LONGITUDE
AD	AREA DRAIN	MB	MAILBOX
ANT	ANTENNA	MON	MONUMENT
BFP	BACK FLOW PREVENTER	MOWC	MOWCURB
BLDG	BUILDING	MS	MISC STRUCTURE
BLRD	BOLLARD	PCB	PEDESTRIAN CALL BUTTON
BRC	BACK OF ROLLING CURB	PLR	PLANTER
C/CONC	CONCRETE	PM	PARKING METER
CB	CATCH BASIN	QA	QUEEN ARM
CND	CONDUIT	(R)	RADIAL LINE
CTY	CABLE TRAY	RCM	RECLAIMED WATER METER
DF	DRINKING FOUNTAIN	RCP	RECLAIMED WATER PEDESTAL
DWY	DRIVEWAY	RCV	RECLAIMED WATER VALVE
EB	ELECTRICAL BOX	RF	ROOF
EC	ELECTRIC CABINET	ROW	RIGHT OF WAY
EL	ELEVATION	SDMH	STORM DRAIN MANHOLE
EM	ELECTRIC METER	SSMH	SANITARY SEWER MANHOLE
EMH	ELECTRIC MANHOLE	SS	SANITARY SEWER
ENCL	ENCLOSURE	SSCO	SANITARY SEWER CLEAN OUT
EO	ELECTRICAL OVERHEAD	(T)	TOTAL DISTANCE
EP	EDGE OF PAVEMENT	TLC	TELECOM CABINET
EPB	ELECTRIC PULL BOX	TOB	TOP OF BERM
EQ	EQUIPMENT	TB	TELECOM BOX
ER	ELECTRIC RISER	TC	TOP OF CURB
ET	TRANSFORMER	TMH	TELECOM MANHOLE
EV	ELECTRIC VAULT	TP	TELECOM PEDESTAL
EXB	EXISTING BUILDING	TPB	TELECOM PULL BOX
EXS	EXISTING STRUCTURE	TR	TELECOM RISER
FL	FLOWLINE	TRW	TREE WELL
FNC	CHAINLINK FENCE	TS	TRAFFIC SIGNAL
FND	FOUND	TSB	TRAFFIC SIGNAL BOX
FNI	IRON FENCE	TV	TELECOM VAULT
FNW	WOOD FENCE	TW	TOP OF WALL
FW	FACE OF WALL	UVV	UNKNOWN VAULT
GA	GUY ANCHOR	UVT	UNKNOWN VAULT
GM	GAS METER	VEG	VEGETATION
GR	GAS RISER	WF	WATER FOUNTAIN
GRN	GAS VALVE	WH	WEEP HOLE
HCR	HANDICAP RAMP	WM	WATER METER
HH	HAND HOLE	WR	WATER RISER
IB	IRRIGATION CONTROL BOX	WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE		



125 KLUG CIRCLE
CORONA, CALIFORNIA 92880

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APPROVALS

90% CDS	DATE
100% CDS	DATE
100% CDS WITH STRUCTURALS	DATE
CONSTRUCTION	DATE
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

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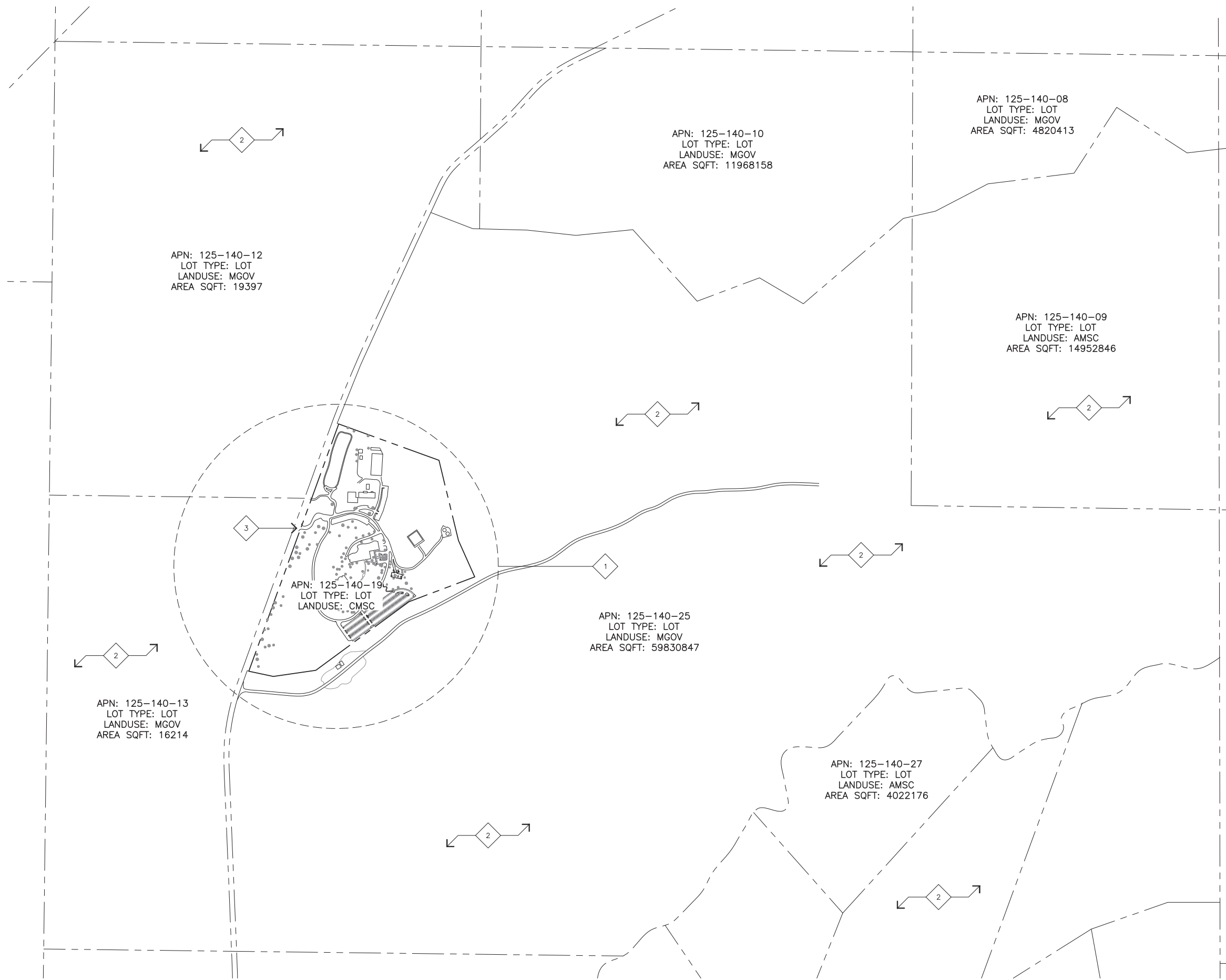
03/25/23	90% CD REVIEW (P1-B1)
04/05/23	95% CD REVIEW (P1-B2)

SHEET TITLE
TOPOGRAPHIC SURVEY

LS-1

SITE PLAN KEYNOTES

- 1 (E) COMPOUND AREA
- 2 (E) OPEN LAND (NATURAL HILLSIDES AND LANDSCAPES)
- 3 (E) ACCESS DRIVEWAY.



SITE PLAN - PROPERTY LINES

11X17 SCALE: 1" = 1200'
24X36 SCALE: 1" = 600'



1



125 KLUG CIRCLE
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Digitally signed by Joseph Russell King
Date: 2023.09.21 13:42:34 -0400

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08/16/24	ZD JX COMMENTS (P1-B8)

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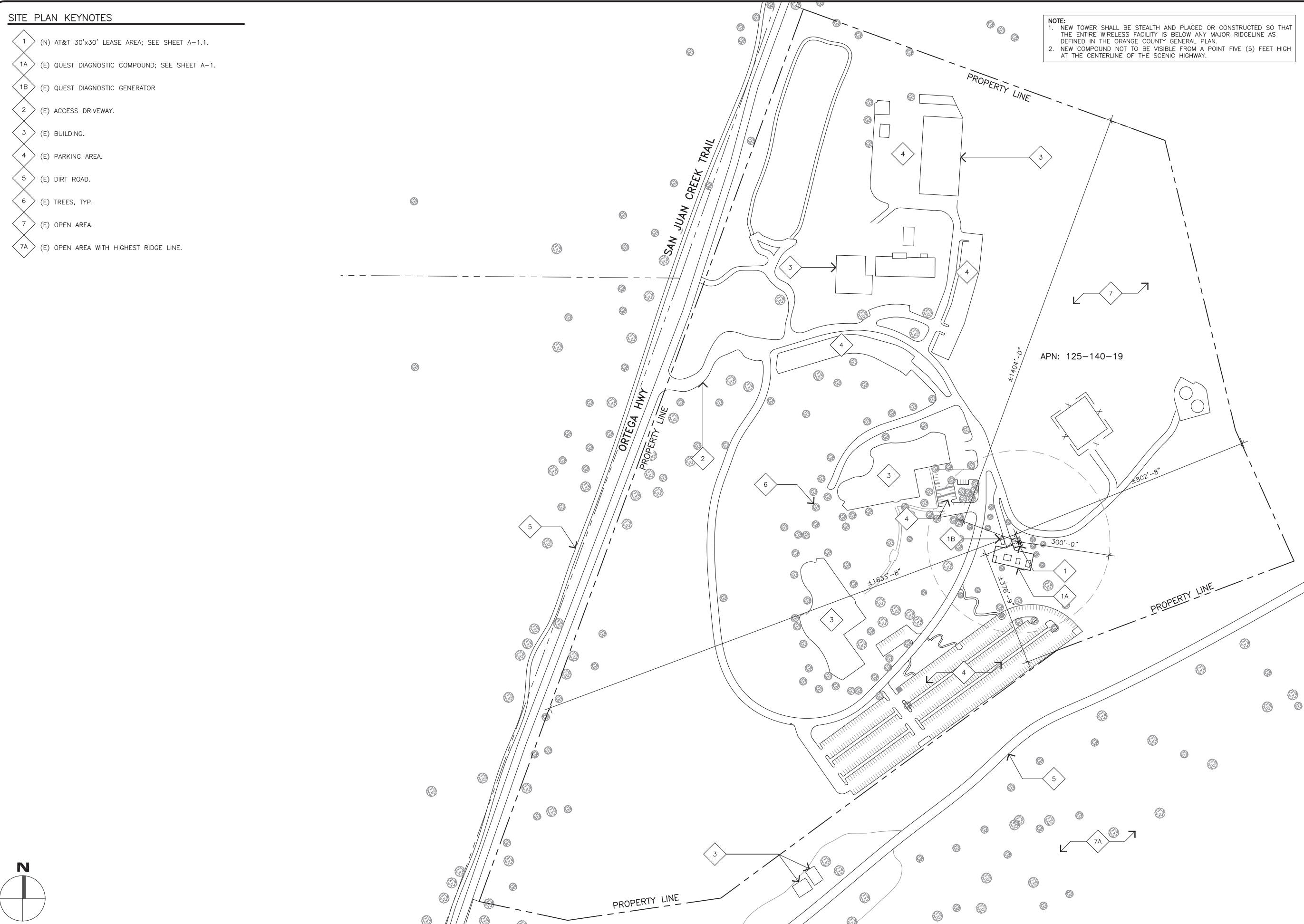
SITE PLAN
PROPERTY LINES

A-0

SITE PLAN KEYNOTES

- 1 (N) AT&T 30'x30' LEASE AREA; SEE SHEET A-1.1.
- 1A (E) QUEST DIAGNOSTIC COMPOUND; SEE SHEET A-1.
- 1B (E) QUEST DIAGNOSTIC GENERATOR
- 2 (E) ACCESS DRIVEWAY.
- 3 (E) BUILDING.
- 4 (E) PARKING AREA.
- 5 (E) DIRT ROAD.
- 6 (E) TREES, TYP.
- 7 (E) OPEN AREA.
- 7A (E) OPEN AREA WITH HIGHEST RIDGE LINE.

NOTE:
 1. NEW TOWER SHALL BE STEALTH AND PLACED OR CONSTRUCTED SO THAT THE ENTIRE WIRELESS FACILITY IS BELOW ANY MAJOR RIDGELINE AS DEFINED IN THE ORANGE COUNTY GENERAL PLAN.
 2. NEW COMPOUND NOT TO BE VISIBLE FROM A POINT FIVE (5) FEET HIGH AT THE CENTERLINE OF THE SCENIC HIGHWAY.



APN: 125-140-19



SITE PLAN

11X17 SCALE: 1" = 300'
 24X36 SCALE: 1" = 150'



1



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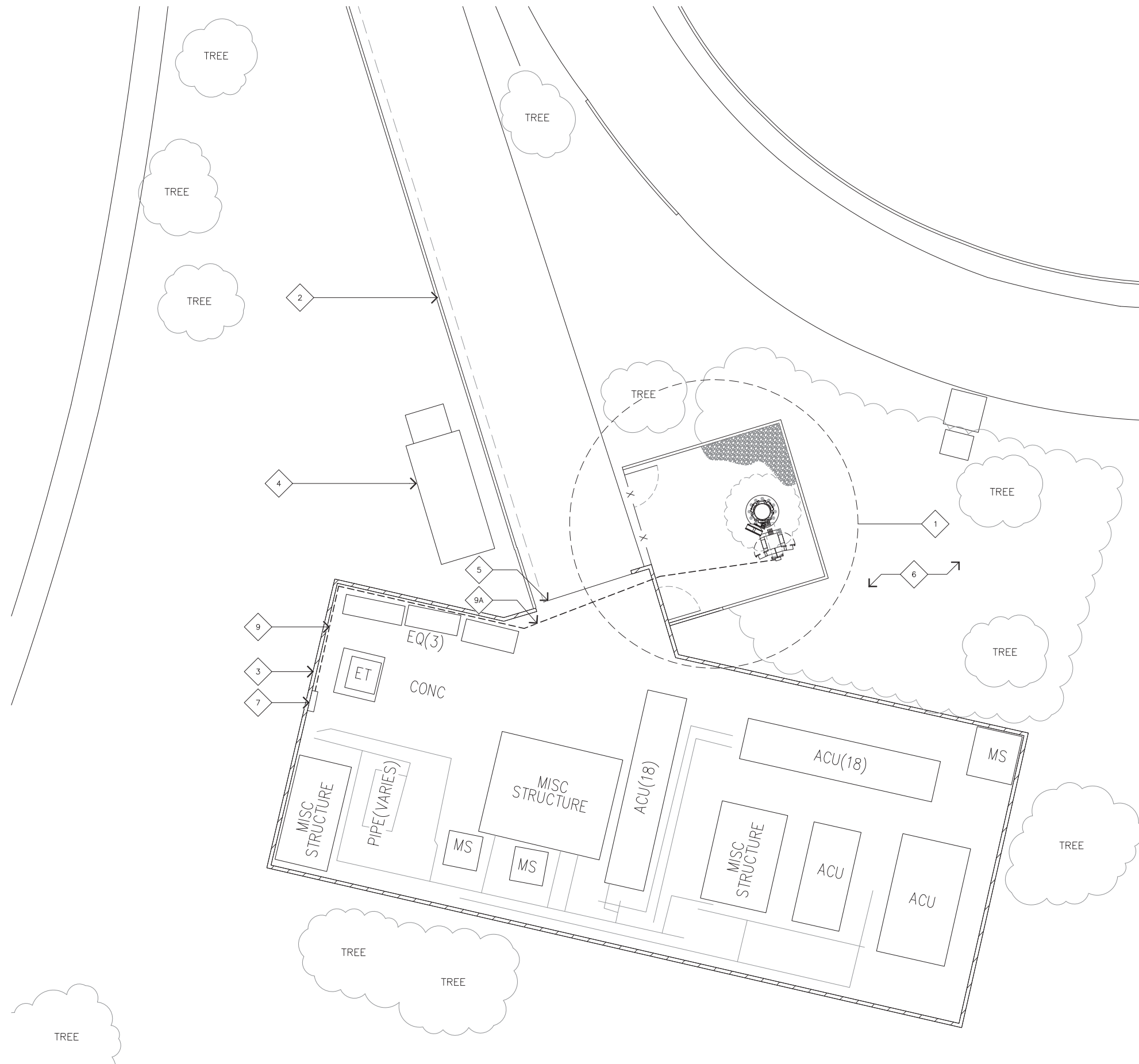
SITE PLAN

A-0.1

JOB NUMBER: 44321

SITE PLAN KEYNOTES

- 1 (N) AT&T 30'x30' LEASE AREA; SEE SHEET A-1.1.
- 2 (E) ACCESS DRIVEWAY.
- 3 (E) QUEST DIAGNOSTIC COMPOUND
- 4 (E) QUEST DIAGNOSTIC GENERATOR
- 5 (E) QUEST DIAGNOSTIC ACCESS GATE
- 6 (E) LANDSCAPE AREA
- 7 (E) DISTRIBUTION PANEL W/
(E) DUAL POLE 100AMP BREAKER
- 8 (N) H-FRAME WITH (N) DISTRIBUTION PANEL
- 9 (N) 2"Ø POWER, 1"Ø ALARM AND 2"Ø TELCO
CONDUITS TO BE RUN FROM (E) DISTRIBUTION
PANE TO (N) COMPOUND ALONG (E) WALL AS
REQUIRED.
- 9A (N) POWER, ALARM AND TELCO CONDUITS TO BE
RUN IN (N) UNDERGROUND ROUTE AS REQUIRED
FROM (E) QUEST DIAGNOSTIC COMPOUND TO NEW
DISTRIBUTION PANEL ON (N) H-FRAME IN (N)
COMPOUND AREA.



ENLARGED SITE PLAN

11X17 SCALE: 1" = 20'
24X36 SCALE: 1" = 10'

1

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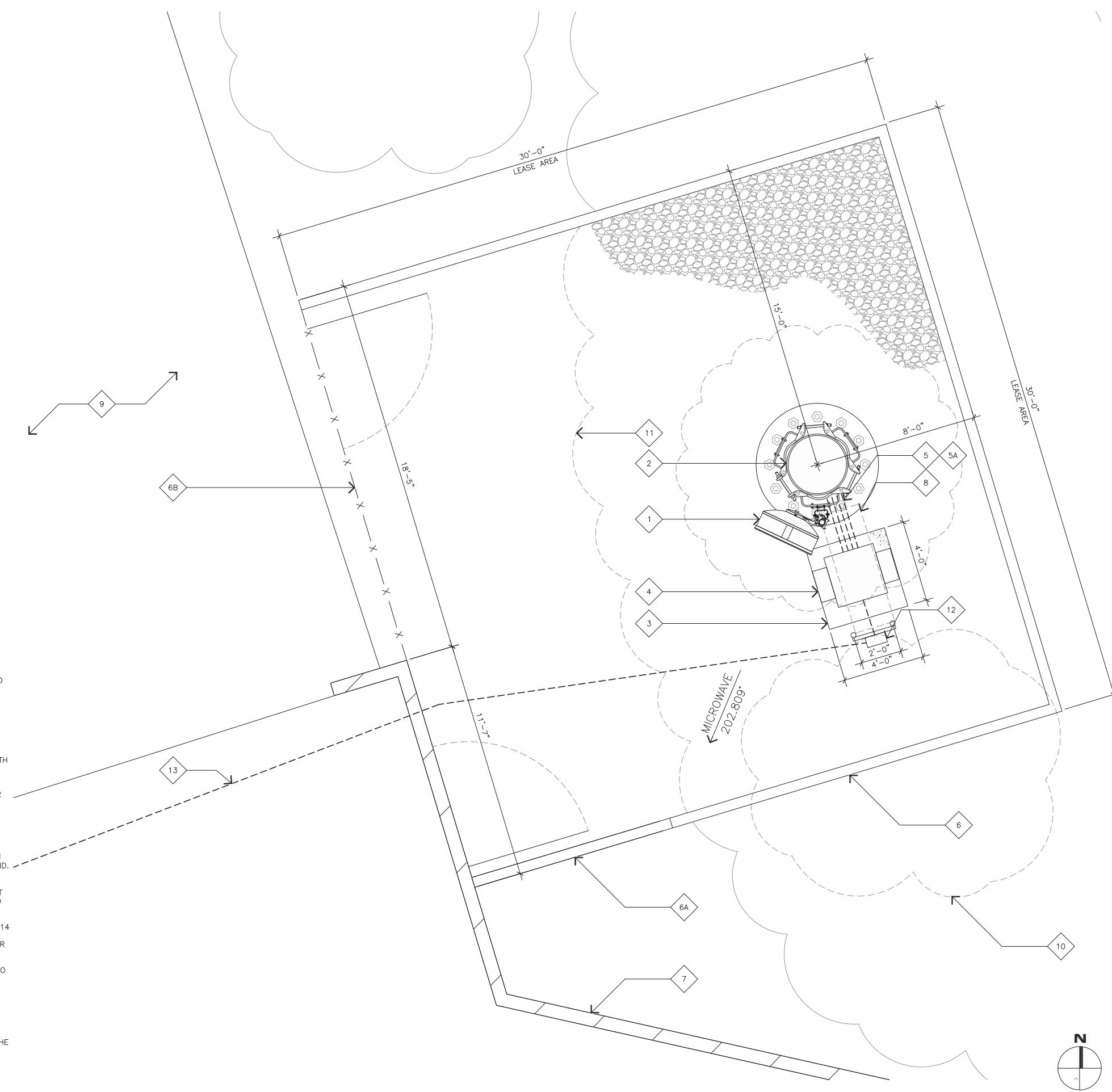
A-1

ENLARGED SITE PLAN KEYNOTES

- 1 (N) AT&T 3'-0" MICROWAVE ANTENNA WITH (N) ODU'S MOUNTED TO (N) MONO-EUCALYPTUS; SEE DETAIL 2/A-3.
- 2 (N) 70'-0" TALL MONO-EUCALYPTUS; SEE TOWER DRAWINGS.
- 3 (N) AT&T 4'-0" X 4'-0" CONCRETE PAD.
- 4 (N) AT&T MICROWAVE RADIO EQUIPMENT MOUNTED IN (N) FLX-25 EQUIPMENT CABINET AND TO BE GROUNDED TO (N) GROUND RING.
- 5 (N) (2) AT&T FIBER; SEE SHEET 2/A-4.1.
- 5A (N) (2) AT&T COAX; SEE SHEET 1/A-4.1.
- 6 (N) 30'-0" X 30'-0" CMU WALL TO MATCH (E).
- 6A (E) PARTIAL RETAINING WALL BELOW (N) CMU WALL
- 6B (N) CHAINLINK FENCE W/ ACCESS GATE
- 7 (E) CMU WALL ENCLOSURE.
- 8 (N) ICE-BRIDGE
- 9 (E) ASPHALT
- 10 (E) TREE TO BE REMOVED AS REQUIRED. CONSTRUCTION TO CONFIRM IN FIELD
- 11 (E) DENSE VEGETATION TO BE REMOVED AS REQUIRED. GROUND TO BE LEVELED FOR (N) COMPOUND AREA.
- 12 (N) H-FRAME W/ (N) DISTRIBUTION PANEL CONTAINING: (N) (4) 20AMP BREAKERS FOR RECTIFIERS (N) (1) 20AMP BREAKER FOR AC SERVICE AND LIGHTS SEE DETAILS 1&4/A-4.3
- 13 (N) POWER, ALARM AND TELCO CONDUITS TO BE RUN IN (N) UNDERGROUND ROUTE AS REQUIRED FROM (E) QUEST DIAGNOSTIC COMPOUND TO NEW DISTRIBUTION PANEL ON (N) H-FRAME IN (N) COMPOUND AREA. SEE DETAIL 2&3/A-4.3.

ENLARGED SITE PLAN GENERAL NOTES

- A. OTHER CARRIER ANTENNAS NOT SHOWN FOR CLARITY.
- B. GROUND ALL (N) EQUIPMENT AND COAX PER DETAIL 3/A-3.
- C. CONTRACTOR TO PROVIDE ALL LABOR TO INSTALL COAX, RETS AND ANTENNAS.
- D. CONTRACTOR TO PROVIDE ALL COAX, CONNECTORS, ANCILLARY EQUIPMENT (INCLUDING WEATHER STRIPPING, GROUND KITS, ETC.).
- E. CONTRACTOR TO COLOR CODE ALL COAX. COLORED BANDS OF TAPE ON COAX IDENTIFY SECTOR, FREQUENCY, TECHNOLOGY, AND TRANSMIT GROUP AS FOLLOWS ON ALL COAX MODIFIED OR INSTALLED ONLY.
- F. WHEN ANTENNA LINES ARE DIPLEXED, THE COLOR CODE OF THE HIGHEST FREQUENCY PREVAILS (I.E. UMTS DIPLEXED WITH TDMA SHOULD HAVE COLOR 4 BANDS).
- G. ALL ANTENNAS AND ANTENNA CABLE SHALL BE FURNISHED BY CONTRACTOR AND INSTALLED BY ANTENNA INSTALLATION CONTRACTOR.
- H. PRIOR TO PLACEMENT OF ANTENNA POLE MOUNTS, THE CONTRACTOR SHALL VERIFY THAT THE AZIMUTH AND DIMENSIONS SHOWN ON THE PLANS MATCH ACTUAL FIELD CONDITIONS. ALLOWABLE TOLERANCE: HORIZONTAL ALIGNMENT = ±5'; VERTICAL ALIGNMENT = ±1'.
- I. ANTENNA INSTALLATION CONTRACTOR SHALL PROVIDE ALL CONDUIT, CABLE TRAY, GROUNDS, ETC. FOR COMPLETE INSTALLATION OF ANTENNAS AND CABLES SHOWN AND INTENDED AS REQUIRED FOR A COMPLETE OPERATING SYSTEM IN ACCORDANCE WITH CONTRACTOR STANDARDS.
- J. IN NO CASE SHALL THERE BE ANY MORE THAN TWO (2) 90° TURNS (OR EQUIVALENT) IN ANY CONTINUOUS LENGTH OF CONDUIT BETWEEN PULL BOXES OR SIMILAR FEATURES.
- K. ANTENNA CONDUIT SHALL ONLY INCLUDE FACTORY-MADE LARGE RADIUS SWEEPS AT ALL CHANGES IN DIRECTION. SWEEP RADIUS SHALL BE 18" MINIMUM ABOVE GROUND AND 36" MINIMUM BELOW GROUND.
- L. CONDUIT SHALL BE 3" MINIMUM. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. ALL EXPOSED CONDUIT ABOVE GRADE LEVEL SHALL BE IMC OR RIGID GALVANIZED. ALL EXPOSED CONDUIT PROTECTED IN A BUILDING OR ON A ROOF SHALL BE EMT OR UV STABILIZED PAINTED SCHEDULE 80 PVC.
- M. IN HIGH TRAFFIC AREAS OR WHERE SUSCEPTIBLE TO DAMAGE CONTRACTOR SHALL PROVIDE FORMED 14 GA. GALVANIZED SHEET METAL COVER OVER COAXIAL CABLE ROUTES WHERE CABLE IS RUN ON THE WALL, ATTACH UNISTRUT TO WALL AND COVER WITH 14 GA. GALVANIZED FORMED SHEET METAL COVER OR MATERIAL AS DIRECTED BY CONTRACTOR CONSTRUCTION MANAGER.
- N. VERIFY ROUTE AND LENGTH OF CABLE PRIOR TO CUTTING. ADJUST INDICATED ROUTE AS REQUIRED TO CLEAR (E) EQUIPMENT AT FACILITIES.
- O. MAXIMUM LENGTH OF 7/8" COAX CABLE SHALL BE 140'-0". MAXIMUM LENGTH OF 1-1/4" COAX CABLE SHALL BE 190'-0". MAXIMUM LENGTH OF 1-5/8" COAX CABLE SHALL BE 235'-0".
- P. VERIFY MODEL NUMBERS OF ANTENNAS WITH CONTRACTOR SERVICES.
- Q. THE CONTRACTOR SHALL PROVIDE TESTING OF ANTENNAS AND SHALL PROVIDE DOCUMENTATION TO THE CONTRACTOR PROJECT MANAGER.
- R. GENERAL CONTRACTOR TO VERIFY ALL TORQUE TOLERANCES PER THE MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.



COMPOUND PLAN

11x17 SCALE: 3/16"=1'-0"
 24x36 SCALE: 3/8"=1'-0" 0 1' 2' 3' 6' 1

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APPROVALS

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90% ZDS	DATE
GAMALIEL AGUILAR	04/05/23
95% ZDS	DATE
JENNIFER GUERRA	06/26/23
100% ZDS	DATE
CONSTRUCTION	DATE
KATHI RUEHLE	07/07/23
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE

SITE NAME
QUEST DIAGNOSTICS

33608 ORTEGA HIGHWAY
 SAN JUAN CAPISTRANO, CALIFORNIA 92675

DRAWING DATES

03/25/23	90% ZD REVIEW (P1-B1)
04/05/23	95% ZD REVIEW (P1-B2)
04/19/23	95% ZD REVIEW (P1-B3)
04/23/23	95% ZD REVIEW (P1-B4)
06/13/23	95% ZD REVIEW (P1-B5)
06/26/23	100 ZD REVIEW (P1-B6)
07/13/23	ZONING SUBMITTAL (P1-B7)
08/16/24	ZD JX COMMENTS (P1-B8)

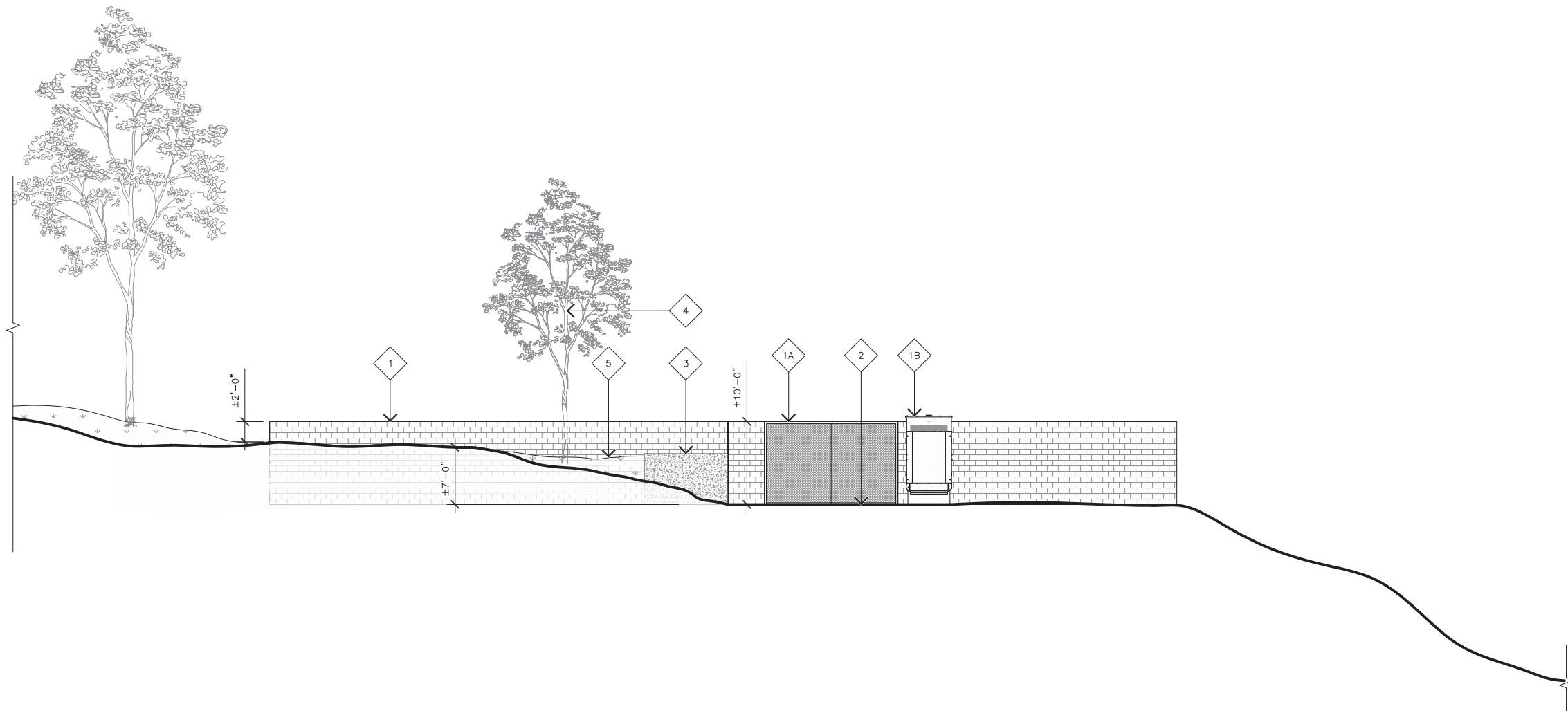
SHEET TITLE

ENLARGED SITE AND
 EQUIPMENT PLAN

A-1.1

EXISTING ELEVATION KEYNOTES

- 1 (E) CMU WALL.
- 1A (E) COMPOUND ACCESS GATE.
- 1B (E) OTHER GENERATOR.
- 2 (E) COMPOUND ROAD.
- 3 (E) RETAINING WALL.
- 4 (E) TREE TO BE REMOVED AS REQUIRED. CONSTRUCTION TO CONFIRM IN FIELD.
- 5 (E) DENSE VEGETATION TO BE REMOVED AS REQUIRED. GROUND TO BE LEVELED FOR (N) COMPOUND AREA..



EXISTING NORTHWEST ELEVATION

11X17 SCALE: 1/16" = 1'-0"
 24X36 SCALE: 1/8" = 1'-0"



2

MasTec
 Network Solutions

125 KLUG CIRCLE
 CORONA, CALIFORNIA 92880

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Digitally signed by Joseph Russell King
 Date: 2023.09.21 15:43:40 -0400

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07/13/23	ZONING SUBMITTAL (P1-B7)
08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE

EXISTING ELEVATION

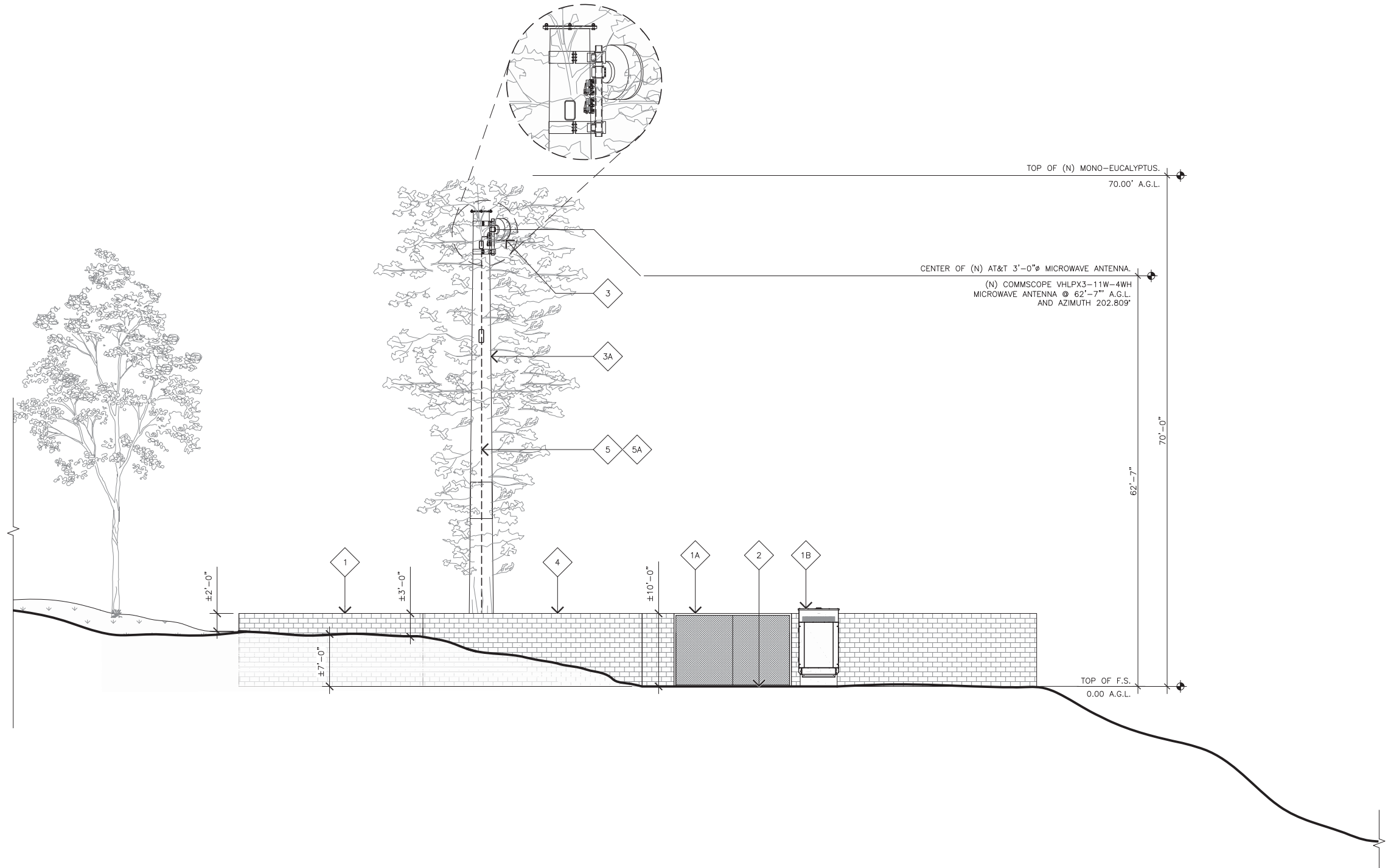
A-2

JOB NUMBER: 44321

EXISTING ELEVATION KEYNOTES

- 1 (E) CMU WALL.
- 1A (E) COMPOUND ACCESS GATE.
- 1B (E) OTHER GENERATOR.
- 2 (E) COMPOUND ROAD.
- 3 (N) AT&T 3'-0" MICROWAVE ANTENNA WITH (N) ODU'S MOUNTED TO (E) MONO-EUCALYPTUS.
- 3A (N) MONO-EUCALYPTUS; SEE TOWER DRAWING.
- 4 (N) AT&T 30'X30' COMPOUND TO MATCH (E).
- 5 (N) (2) AT&T COAX MOUNTED TO (E) MONO-EUCALYPTUS.
- 5A (N) (2) AT&T FIBER MOUNTED TO (E) MONO-EUCALYPTUS.

NOTE:
 1. NEW TOWER SHALL BE STEALTH AND PLACED OR CONSTRUCTED SO THAT THE ENTIRE WIRELESS FACILITY IS BELOW ANY MAJOR RIDGELINE AS DEFINED IN THE ORANGE COUNTY GENERAL PLAN.
 2. NEW COMPOUND NOT TO BE VISIBLE FROM A POINT FIVE (5) FEET HIGH AT THE CENTERLINE OF THE SCENIC HIGHWAY.



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07/13/23	ZONING SUBMITTAL (P1-B7)
08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE

PROPOSED ELEVATION

A-2.1

PROPOSED NORTHWEST ELEVATION

11X17 SCALE: 1/16" = 1'-0"
 24X36 SCALE: 1/8" = 1'-0"



2

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SAN JUAN CAPISTRANO, CALIFORNIA 92675

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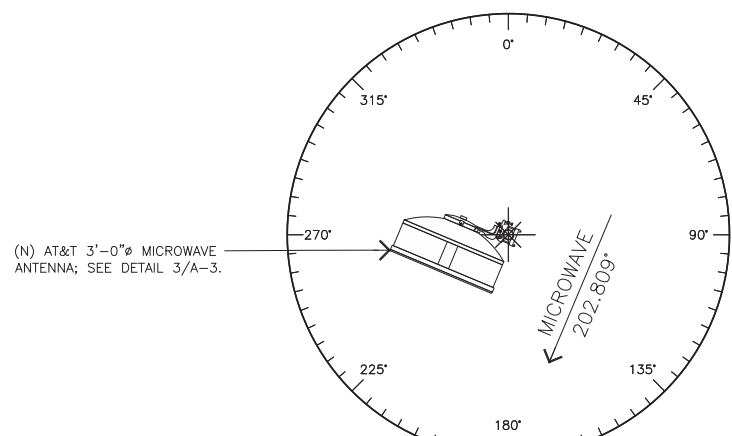
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08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE

ANTENNA SPECIFICATIONS

A-3

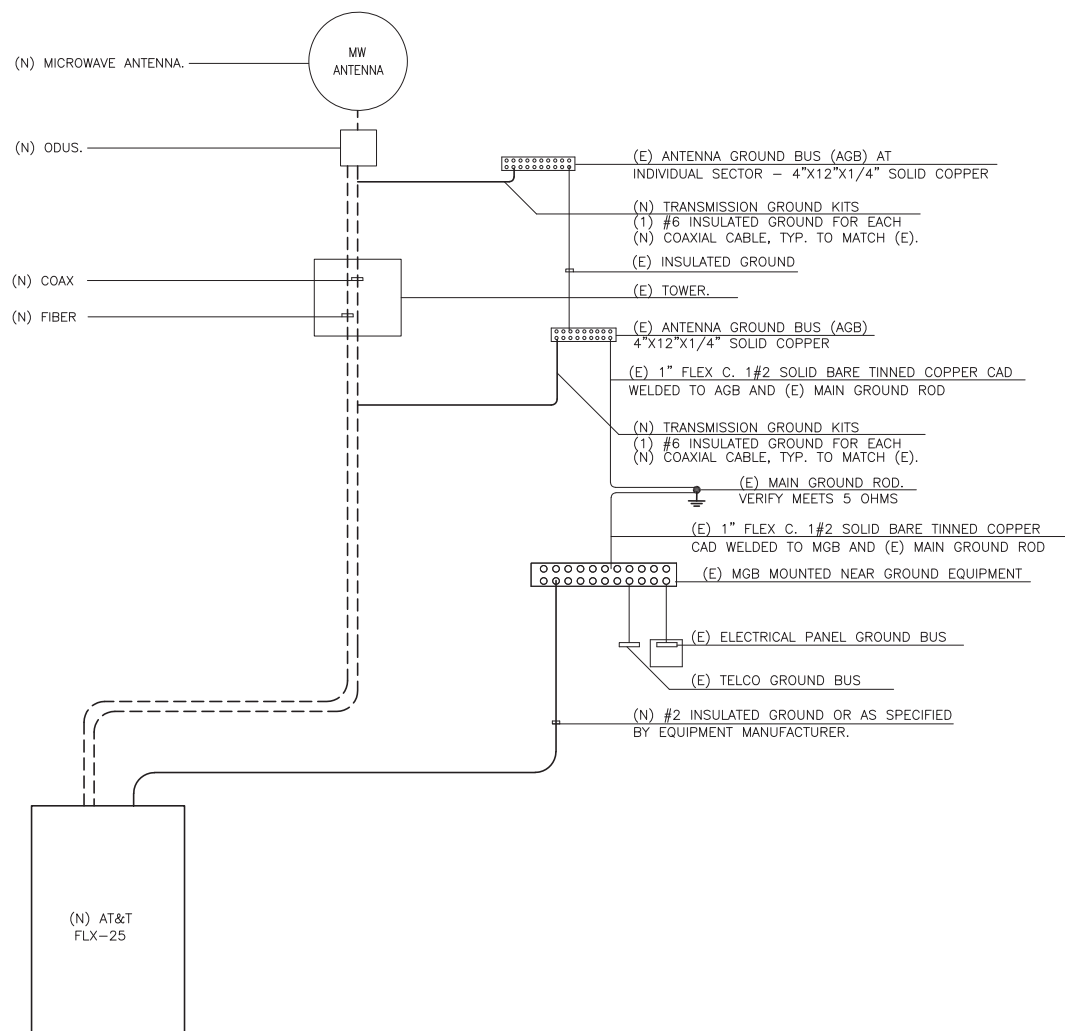
JOB NUMBER: 44321



MICROWAVE SCHEDULE						
ANTENNA MODEL	ANTENNA AZIMUTH	RAD CENTER	CABLE TYPE	QTY	ODU TYPE	QTY
VHLPX3-11W-4WH	202.809	62'-7"	FIBER COAX	2	NOKIA UBT-S	2

MICROWAVE AZIMUTH

SCALE:
NONE **5**



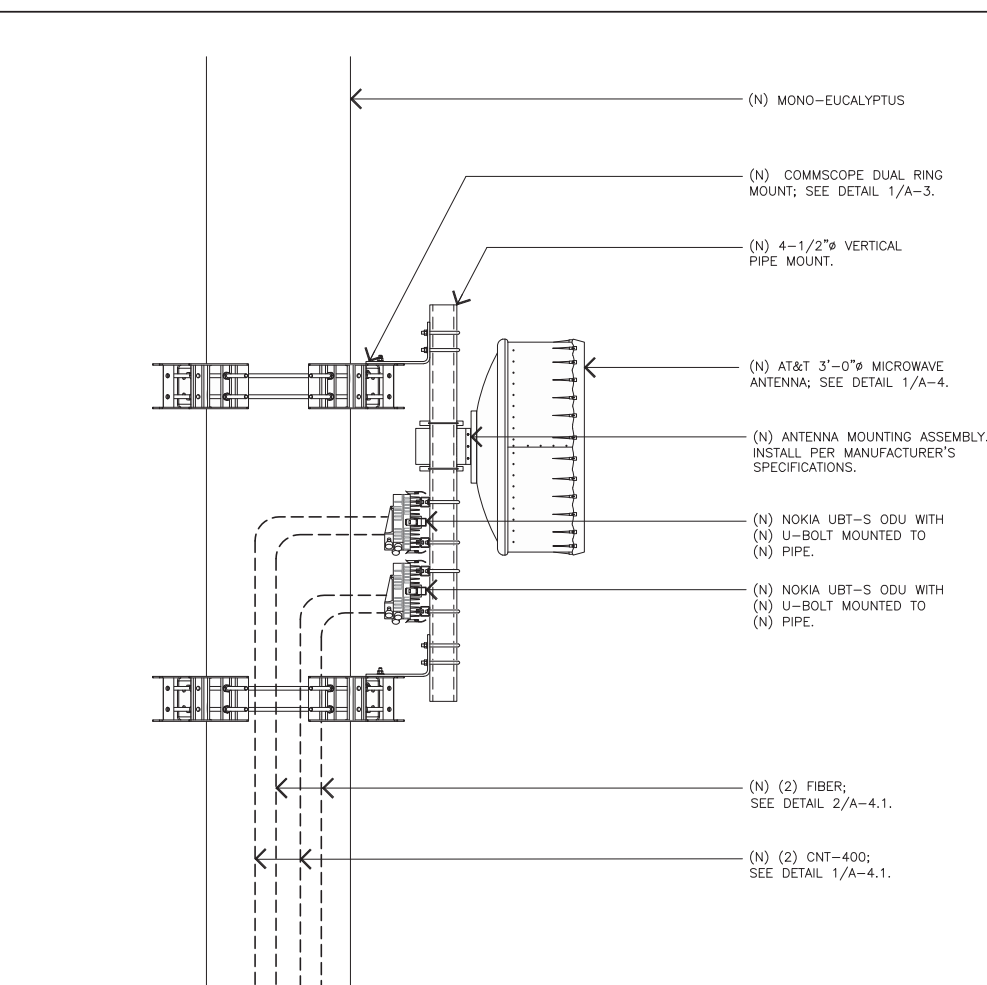
GENERAL NOTES:

- SPLICE GROUND CONNECTIONS.
- FOLLOW COAXIAL CABLE MANUFACTURERS RECOMMENDATIONS (TYPICAL)
- ALL INSULATED GROUND WIRES TO BE STRANDED, AWG WIRE UNLESS NOTED OTHERWISE.
- THIS IS TYPICAL FOR ONE SECTOR OF ANTENNAS. SEE PLANS FOR NUMBER OF SECTORS.
- NUMBER OF COAX IS DIAGRAMATIC.
- EXISTING DIPLEXER'S AND EXISTING TMA'S NOT SHOWN FOR CLARITY.

GROUNDING SYSTEM SCHEMATIC

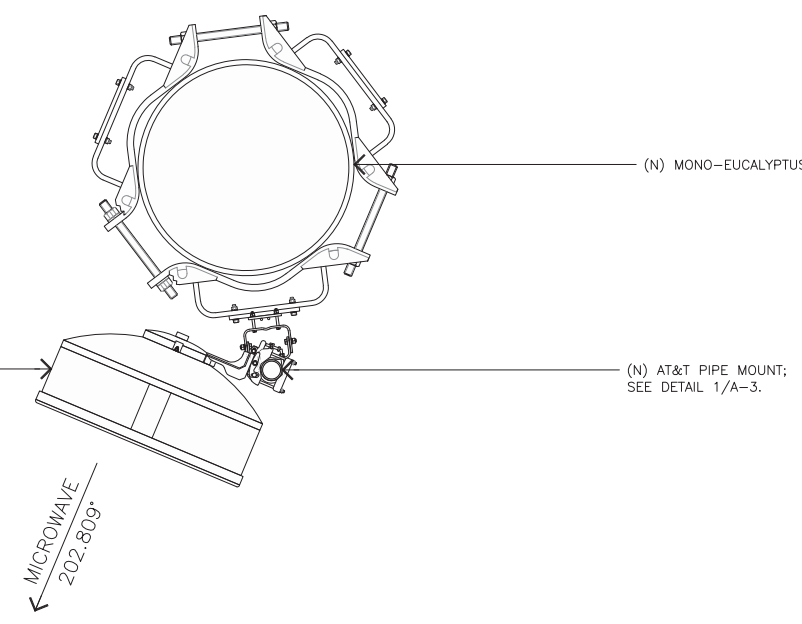
SCALE:
NONE **4**

ANTENNA PLAN



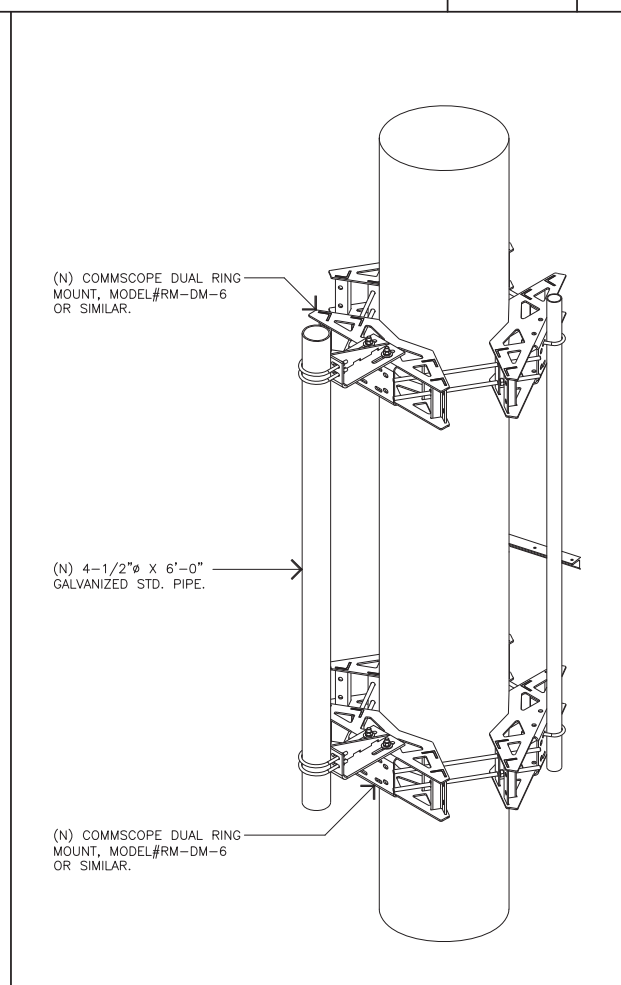
MICROWAVE ANTENNA DETAIL

SCALE:
NONE **3**



ANTENNA PLAN

SCALE:
NONE **2**



PIPE MOUNT DETAIL

SCALE:
NONE **1**

GROUNDING SYSTEM SCHEMATIC

MICROWAVE ANTENNA DETAIL

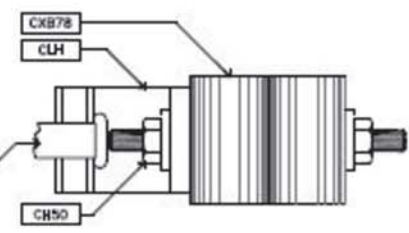
PIPE MOUNT DETAIL

ANTENNA SPECIFICATIONS

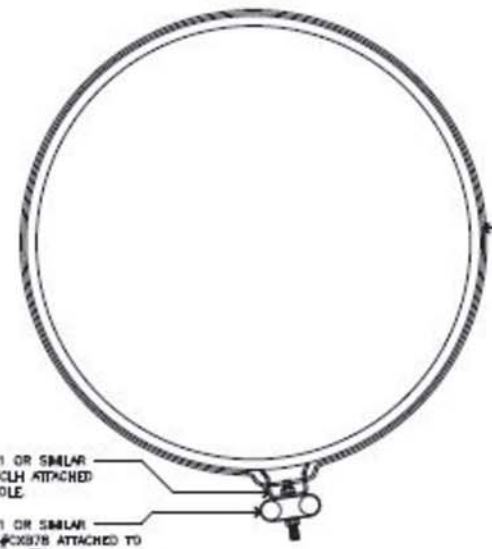
DESIG	MARK	DESCRIPTION	QTY
	CLH	CLAMP HEAD	1
	CXB78	COAX BLOCKS	3
	CH50	COAX BLOCK HARDWARE	1
	BA206	STAINLESS BANDING	1

3/4" STAINLESS BANDING
STAINLESS BANDING BRACE
HEAVY DUTY BANDING TOOL

BA206
BU236-29
T001



ELEVATION



(N) SITE PRO 1 OR SIMILAR CLAMP HEAD #CLH ATTACHED TO (E) MONOPOLE.

(N) SITE PRO 1 OR SIMILAR COAX BLOCKS #CXB78 ATTACHED TO (N) CLAMP HEAD WITH COAX BLOCK HARDWARE #CH50; SEE ELEVATION. LOCATE ADJACENT TO (E) COAX BLOCKS.

PLAN VIEW



Nokia Wavence UBT-S with its AIM and antenna

UBT-S	
Application	<ul style="list-style-type: none"> Macro cell backhaul (access and hub) Split-mount or standalone configuration Enterprise broadband connectivity
Physical	240 mm x 220 mm x 80 mm
Interfaces	<ul style="list-style-type: none"> 1 x DC port Three GE ports: (1 x 100/1000 Base T RJ45 PFoE and 2 x 1/2.5/10 Gbit Optical SFP) 1 x XPIC port 100x1000 Base T RJ45 used as default management port or as user port
Radio	<ul style="list-style-type: none"> Wideband radio capability 6 to 42 GHz (FDD) 1.3Gb/s per carrier Support for packet compression Channels: 7 MHz to 120 MHz
Modulation	4 QAM to 4096 QAM
Weight	4.1kg
Power	<ul style="list-style-type: none"> -48 V (-30V to -57V) PFoE 50 W

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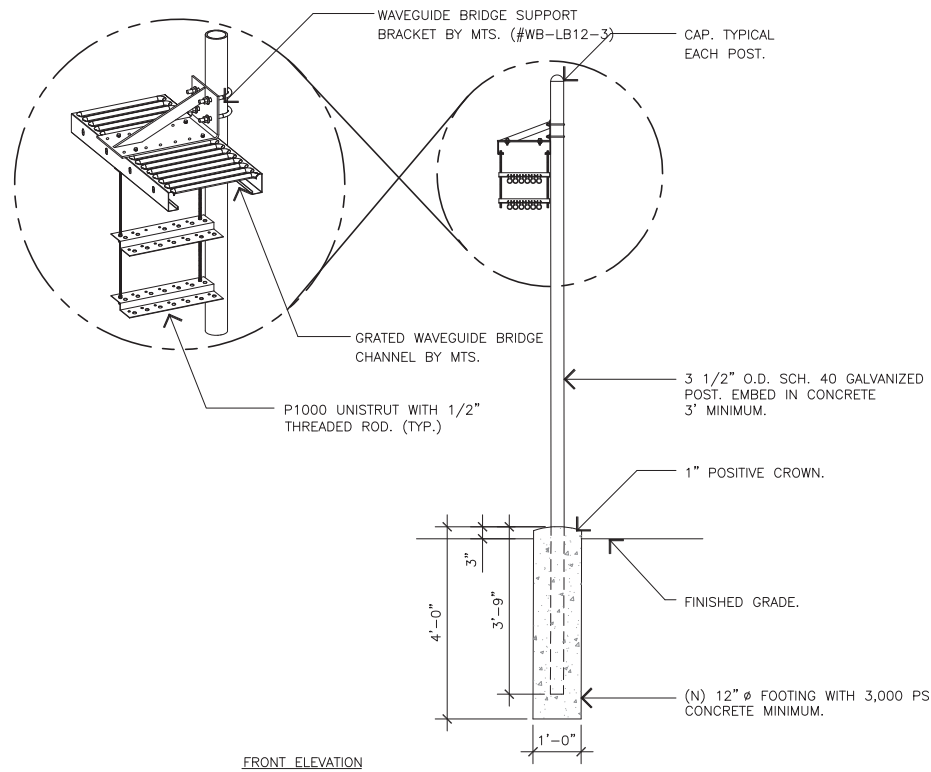
33608 ORTEGA HIGHWAY
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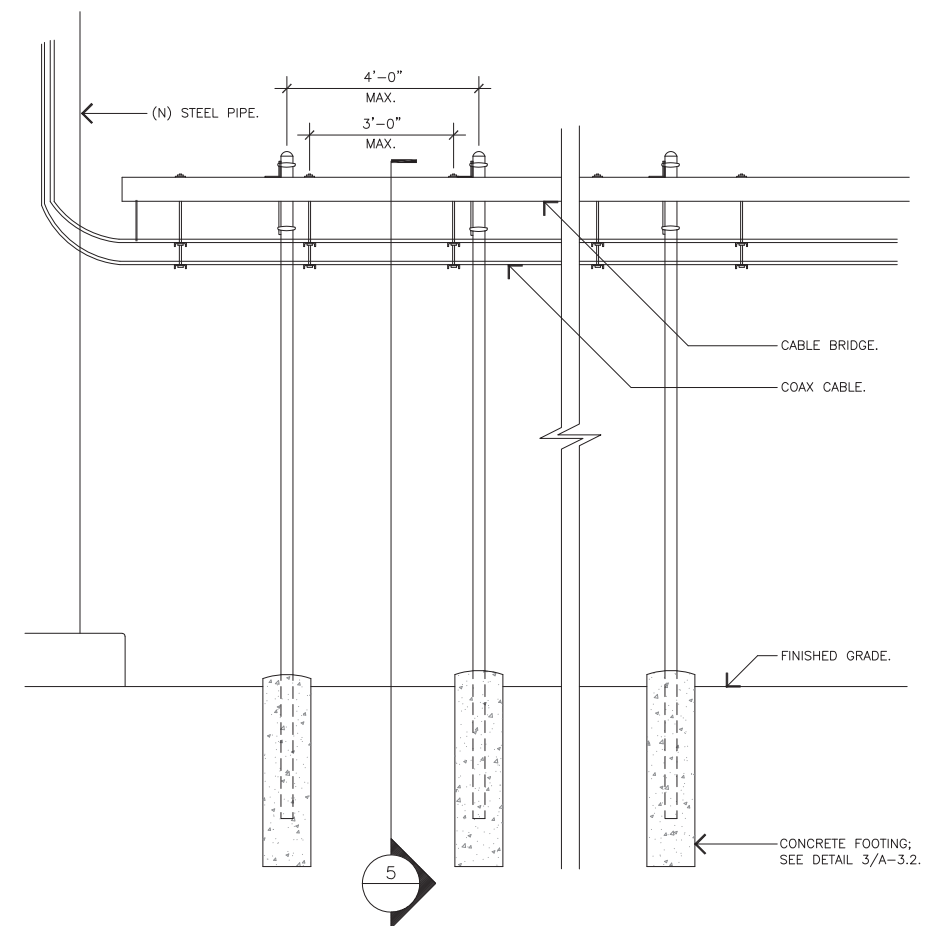
SHEET TITLE

DETAILS



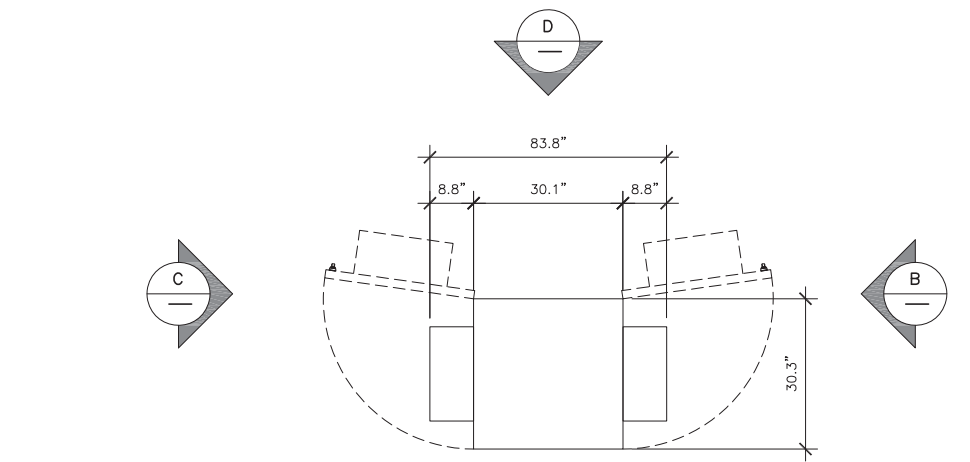
CABLE BRIDGE DETAIL

SCALE:
NONE **5**



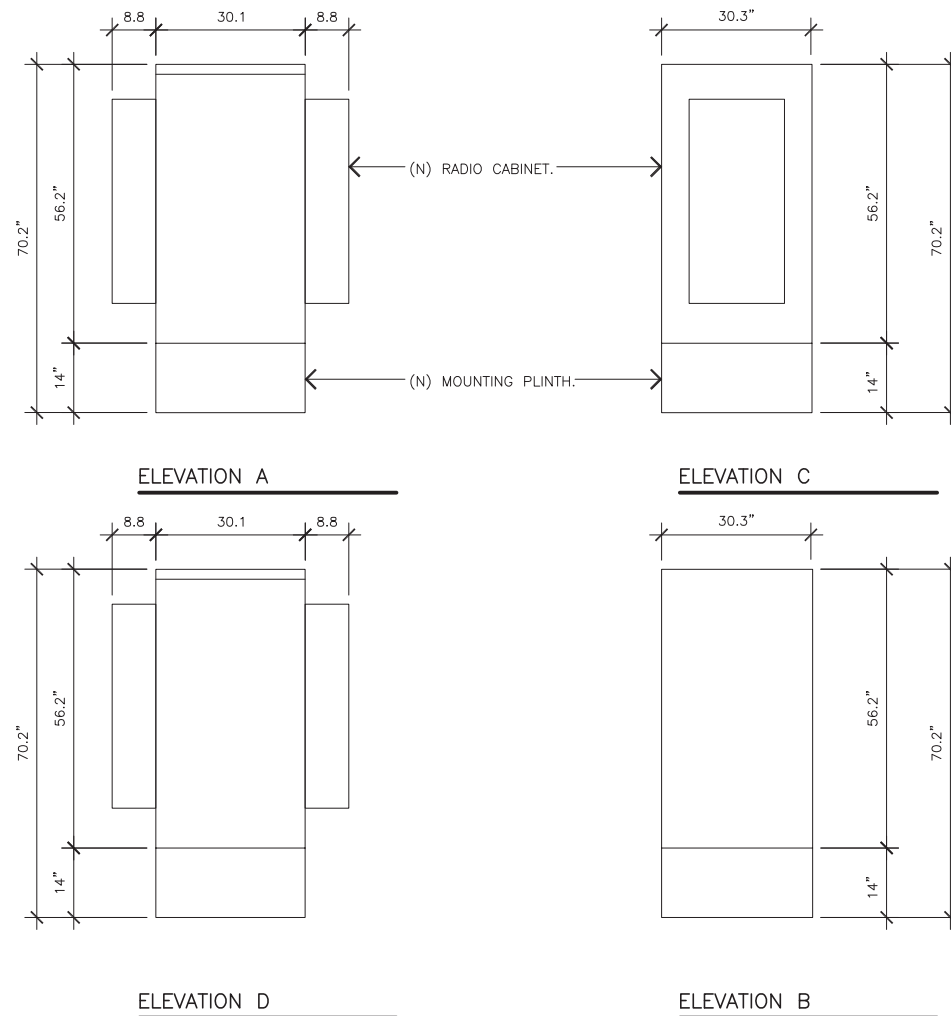
CABLE BRIDGE DETAIL

SCALE:
NONE **4**



SPECIFICATIONS

WEIGHT: 954 LBS. MAX.
A/C REQUIRED: (1) 2 POLE 50 AMP BREAKER
PEAK LOAD: 1330 WATTS @ 48VDC OR 27.7 AMPS



NOTE: SEE DETAIL 1/A-3.2 AND 2/A-3.2 FOR ADDITIONAL INFORMATION.

RADIO CABINET

SCALE:
NONE **3**

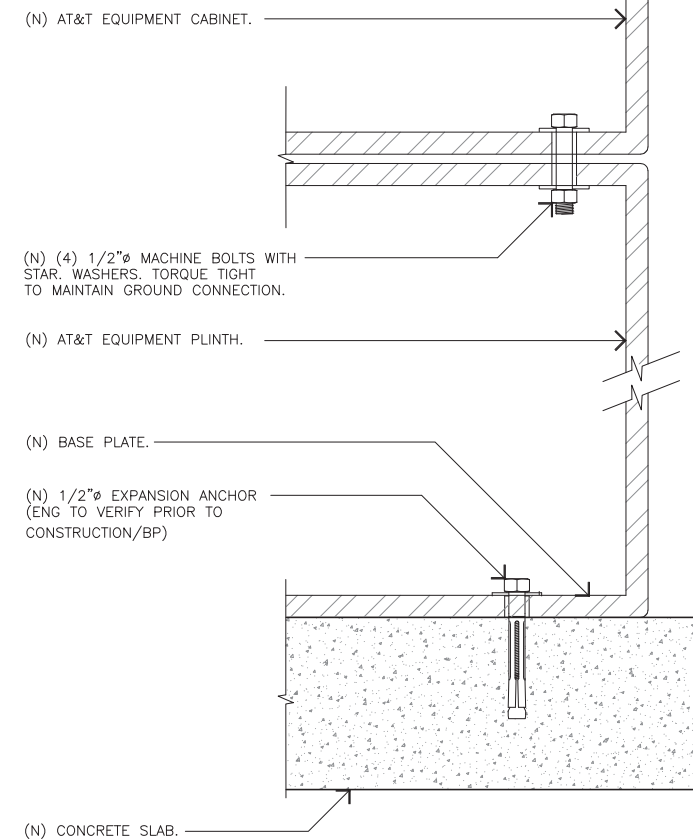
EQUIPMENT FLOOR PLAN GENERAL NOTES

- A CONTRACTOR TO PROVIDE ALL COAX CABLE AND JUMPERS WHERE REQUIRED AND CONNECT TO (N) CABINET.
- B CONTRACTOR TO RUN ALL CABLES AND LINES IN (E) CABLE TRAY. (E) TRAY NOT SHOWN FOR CLARITY OF PLAN VIEW.
- C CONTRACTOR TO PICK-UP AND DELIVER CABINET TO SITE INSIDE EQUIPMENT ROOM OR OUTSIDE AS SHOWN.
- D CONTRACTOR TO USE BASE PLINTH AS TEMPLATE FOR DRILLING (N) ANCHOR HOLES.
- E AT&T TO ORDER AND TEST ALL (N) T-1'S. RF TO DETERMINE HOW MANY (N) T-1'S REQUIRED. CONTRACTOR TO PULL (N) T-1'S FROM (E) DMARC TO DSX PANEL.
- F CONTRACTOR TO PROVIDE AND CONNECT TO (N) LTE CABINET GROUNDING CABLES AND INTEGRATE INTO THE (E) NETWORK. UPON COMPLETION OF INTEGRATION CONTRACTOR SHALL OPTIMIZE THE (N) EQUIPMENT.
- G (N) AND OR (E) LINES CONNECTING TO CABINET ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR TO RUN LINES IN CABLE LADDER NOT SHOWN FOR CLARITY.

GENERAL NOTES

SCALE:
NONE **2**

- NOTE:
- ENGINEERING TO REVIEW PRIOR TO BUILDING PERMIT SUBMITTAL.
 - ZONING SET DETAILS PRELIMINARY AND NOT TO BE USED FOR CONSTRUCTION



EQUIPMENT ANCHORAGE

SCALE:
NONE **1**

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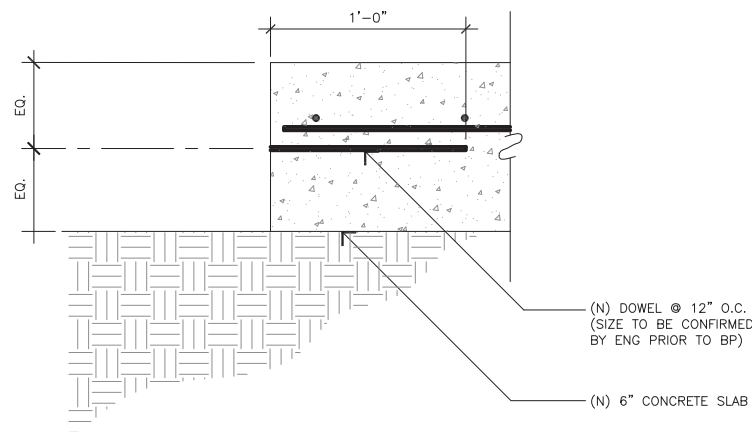
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08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE

DETAILS

A-3.2

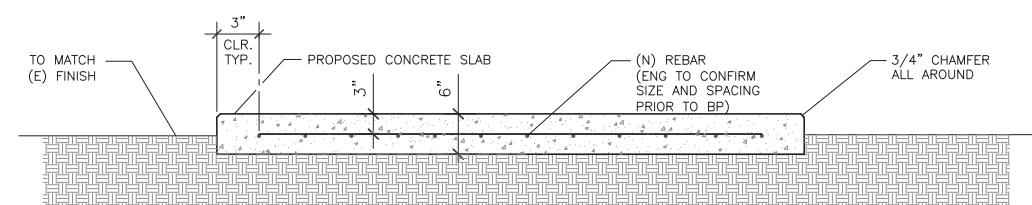


DOWEL AT CONCRETE FOUNDATION

SCALE: **5**
NONE

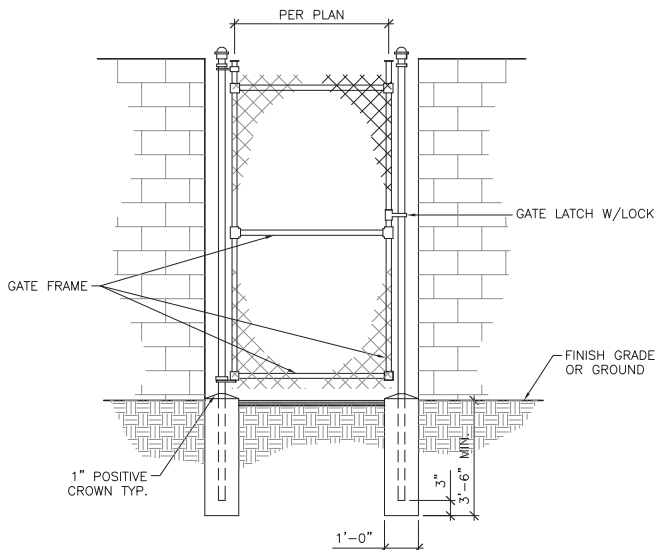
STANDARD CONCRETE NOTES:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-08, ACI 318-08 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH.....3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 #6 AND LARGER2 IN.
 #5 AND SMALLER & WWF.....1-1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALL3/4 IN.
 BEAMS AND COLUMNS.....1-1/2 IN.
- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE U.N.O. IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
- USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ICC & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.



CONCRETE PAD PLAN

SCALE: **2**
N.T.S.

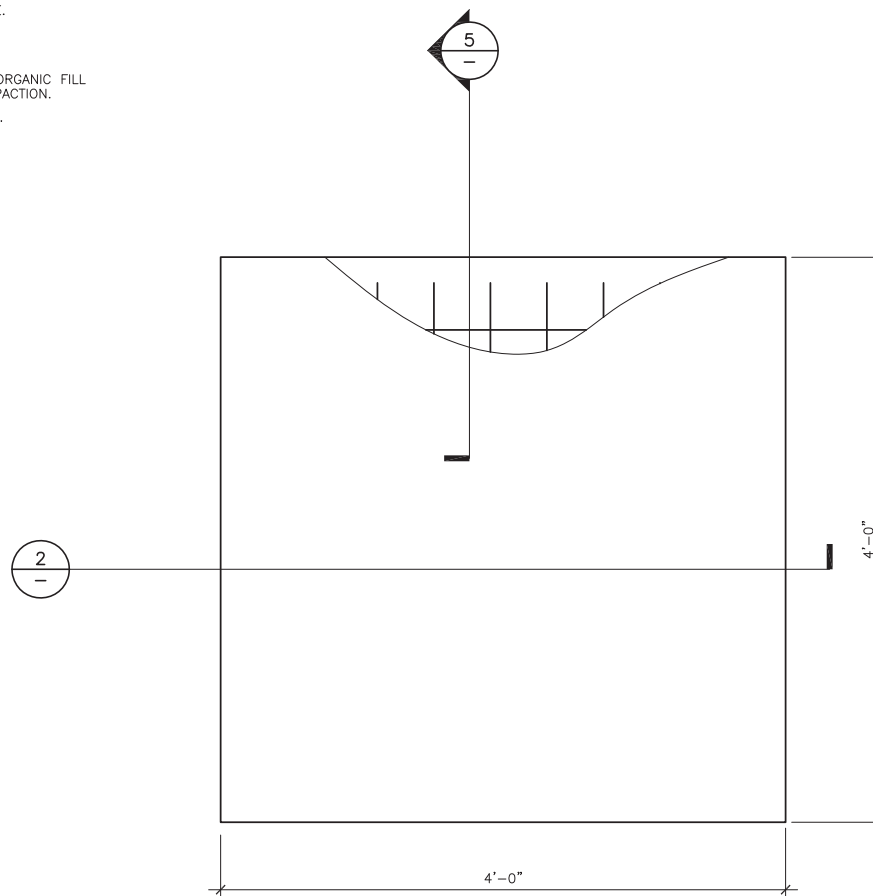


- NOTES:**
- CORNER, END, GATE OR PULL POST TO BE GALVANIZED 2-7/8" O.D. SCHEDULE 40 ASTM A53 GRADE B METAL POSTS, MAX. 8'-0" O.C., UNLESS NOTED OTHERWISE.

GATE DETAIL

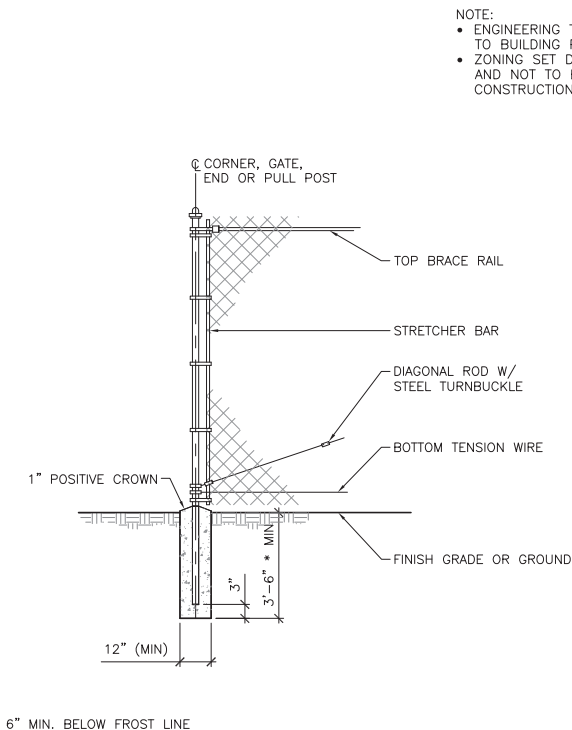
SCALE: **4**
NONE

- NOTES:**
- SLAB TO BE LEVEL $\pm 1/4"$ AND FLOAT SURFACE.
 - CONCRETE STRENGTH SHALL BE A MINIMUM OF 3,000 PSI WITH SPECIAL INSPECTION REQUIRED.
 - VERIFY (E) SOIL COMPACTION. PROVIDE NON-ORGANIC FILL AS REQUIRED TO BRING SITE UP TO 90% COMPACTION.
 - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".



CONCRETE PAD PLAN

SCALE: **1**
N.T.S.



FENCE POST DETAIL

- NOTE:**
- ENGINEERING TO REVIEW PRIOR TO BUILDING PERMIT SUBMITTAL.
 - ZONING SET DETAILS PRELIMINARY AND NOT TO BE USED FOR CONSTRUCTION

- NOTE:**
- ENGINEERING TO REVIEW PRIOR TO BUILDING PERMIT SUBMITTAL.
 - ZONING SET DETAILS PRELIMINARY AND NOT TO BE USED FOR CONSTRUCTION

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APPROVALS

GAMALIEL AGUILAR	03/24/23
90% ZDS	DATE
GAMALIEL AGUILAR	04/05/23
95% ZDS	DATE
JENNIFER GUERRA	06/26/23
100% ZDS	DATE
CONSTRUCTION	DATE
KATHI RUEHLE	07/07/23
SITE ACQUISITION	DATE

PROJECT NAME
MICROWAVE UPGRADE
SITE NAME
QUEST DIAGNOSTICS
33608 ORTEGA HIGHWAY
SAN JUAN CAPISTRANO, CALIFORNIA 92675

DRAWING DATES

03/25/23	90% ZD REVIEW (P1-B1)
04/05/23	95% ZD REVIEW (P1-B2)
04/19/23	95% ZD REVIEW (P1-B3)
04/23/23	95% ZD REVIEW (P1-B4)
06/13/23	95% ZD REVIEW (P1-B5)
06/26/23	100 ZD REVIEW (P1-B6)
07/13/23	ZONING SUBMITTAL (P1-B7)
08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE
DETAILS

A-3.3

GENERAL

- CONTRACTOR SHALL VISIT THE BUILDING SITE AND SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK AND MATERIALS, INCLUDING THOSE FURNISHED BY THE SUB-CONTRACTORS. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES FOUND.
- TYPICAL DETAILS SHALL APPLY WHERE NO SPECIAL DETAIL IS SHOWN.
- ALL OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE TEMPORARY ERECTION BRACING ON ALL ELEMENTS INCLUDING PROPOSED CONSTRUCTION & SOIL. PROVIDE FULL STRUCTURAL STABILITY. BRACING OR SHORING SHALL NOT BE REMOVED UNTIL THE ELEMENT SUPPORTED IS CAPABLE OF SUPPORTING ITS DESIGN LOAD.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT 2010 CALIFORNIA BUILDING CODE AND ALL LOCAL CODE REQUIREMENTS.
- IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MOULDS, ORNAMENTS, GROOVES, CLIPS, GROUNDS, DROPPED SLABS, CURBS, ETC. NOT SHOWN ON DRAWINGS.
- BACKFILL BEHIND RETAINING WALL SHALL NOT BE DONE PRIOR TO THE RETAINING WALL STEMS' GROUTING IS CURED.

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE NEW DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60. LAP REINFORCING STEEL AT SPLICES TO THE FOLLOWING MINIMUM LENGTHS UNLESS NOTED OTHERWISE:

#3 AND #4.....	2'-0"	#8.....	5'-3"
#5.....	2'-1"	#9.....	6'-8"
#6.....	3'-0"	#10.....	8'-6"
#7.....	4'-1"	#11.....	10'-5"

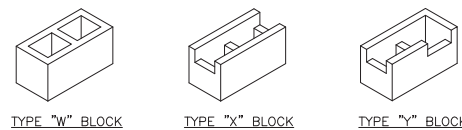
- ALL POURED-IN-PLACE CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED. CEMENT TO BE TYPE II FROM TESTED STOCK PER ASTM C-150.
- CONCRETE FORM TOLERANCES SHALL BE WITHIN THE STANDARDS SET BY THE AMERICAN CONCRETE INSTITUTE.
- ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTOR PRIOR TO THE POURING OF ANY CONCRETE.
- NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATIONS.
- FORM EXPOSED CORNERS OF COLUMNS, BEAMS, WALLS, ETC. WITH 3/4 INCH CHAMFERS UNLESS DETAILED OTHERWISE.
- PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.

CONCRETE BLOCK MASONRY

- MASONRY UNITS FOR HOLLOW UNIT MASONRY SHALL BE GRADE "N" CONCRETE BLOCKS CONFORMING TO ASTM C-90. CONSTRUCTION SHALL COMPLY WITH 2010 CBC AND LOCAL CODES. MASONRY SHALL BE LAID IN STRAIGHT UNIFORM COURSES IN RUNNING BOND. JOINTS SHALL BE TOOLED CONCAVE AND BE UNIFORM IN SIZE. THE INTERSECTING WALLS BY OVERLAPPING UNITS IN ALTERNATE COURSES. ROUGHEN AND CLEAN CONCRETE BEARING SURFACES FOR THE PLACEMENT OF THE FIRST COURSE. VERTICAL HEAD JOINTS SHALL BE FILLED SOLID AND SHOVED TIGHTLY TO PROVIDE BOND TO BOTH BLOCKS.
- MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED OF 1 PART PORTLAND CEMENT, 1/2 MAXIMUM TO 1/4 MINIMUM PARTS LIME PUTTY OR HYDRATED LIME, AND 3 PARTS SAND.
- GROUT SHALL BE FLUID CONSISTENCY AND MIXED IN RATIO OF 1 PART CEMENT AND 3 PARTS SAND FOR GROUT SPACES LESS THAN 4" IN ANY DIRECTION. FOR SPACES GREATER THAN 4" THE RATIO IS TO BE 1 PART CEMENT, 2 PARTS SAND AND 2 PARTS PEA GRAVEL. AGGREGATE AND SAND SHALL CONFORM TO ASTM C-144. SOLID GROUT ALL CELLS.
- USE CARE TO PREVENT MORTAR AND GROUT SPILLAGE ON THE FACE OF THE MASONRY. CLEAN SUCH SPILLAGE IMMEDIATELY. REPAIR ANY DAMAGES OR INTERSTICES BETWEEN BLOCK AND REMOVE STAINS AT THE COMPLETION OF WORK.
- SPLICE ALL BARS IN MASONRY WITH A MINIMUM OF 48 BAR DIAMETER LAPS (2'-0" MINIMUM).
- ALL ISOLATED BOLTS EMBEDDED IN MASONRY SHALL BE GROUTED SOLIDLY IN PLACE WITH NOT LESS THAN 2" OF GROUT SURROUNDING THE BOLT.
- SEAL RETAINING FACE OF WALL AND FOOTING WITH 2 COATS OF HENRY'S 502 ASPHALTIC MASTIC.
- SPECIAL INSPECTION REQUIRED.

CONSTRUCTION MATERIALS SPECIFICATIONS.

- ALL CONCRETE AND GROUT SHALL BE MIN. $f'_c = 2500$ PSI.
- CMU BLOCK SHALL BE MIN. $f'_m = 1500$ PSI. 8"x8"x16"
- ALL STEEL SHALL BE GRADE 60. $f_y = 60,000$ PSI, $F_u = 24,000$ PSI

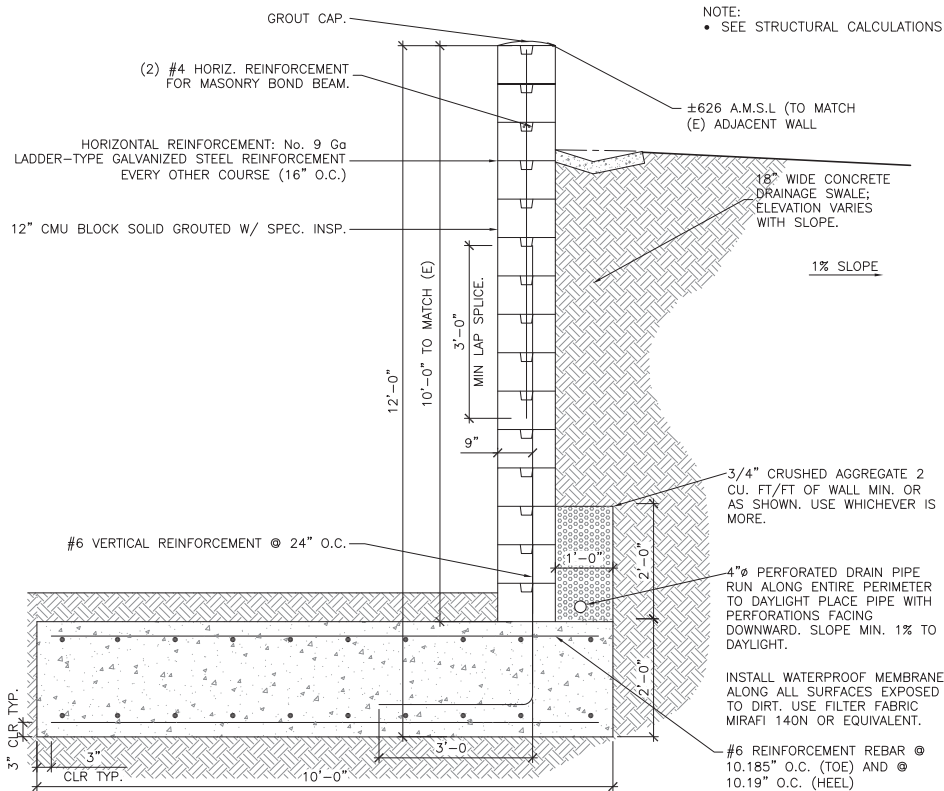


CONC. BLOCK DETAIL

- NOTES**
- GROUT ALL CELLS.
 - VERTICAL REINFORCING TO BE AT ϕ OF WALL UNLESS NOTED OTHERWISE.
 - ALSO SEE GENERAL MASONRY NOTES.

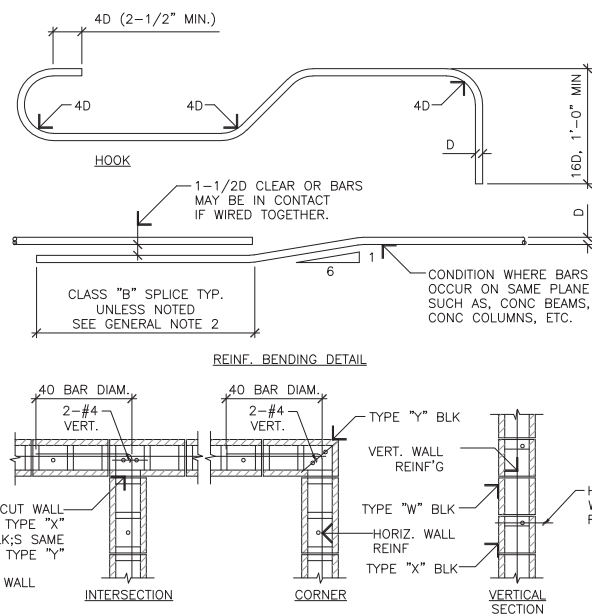
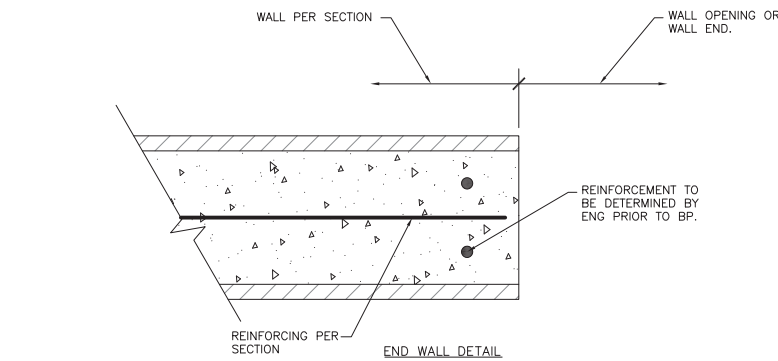
CMU RETAINING WALL NOTES AND DETAILS

SCALE: NONE
N.T.S. **5**



CMU RETAINING WALL

SCALE: NONE
N.T.S. **6**

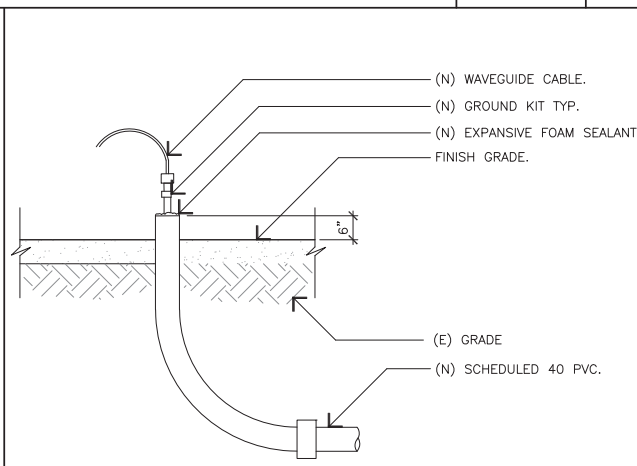
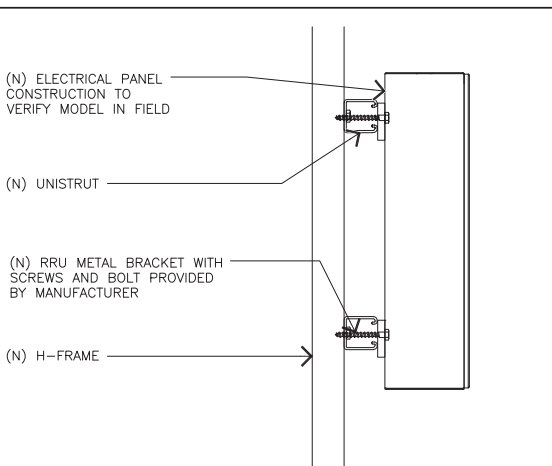
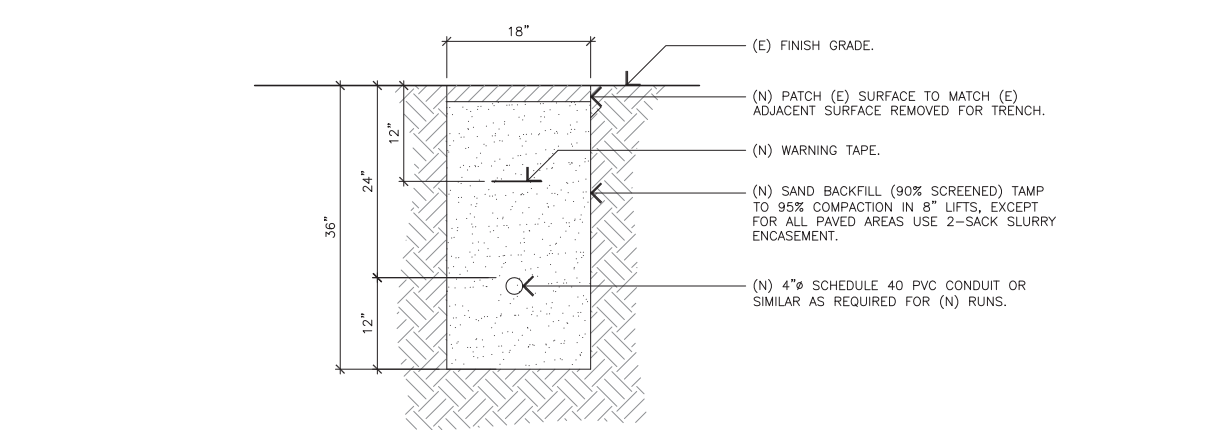


CMU RETAINING WALL NOTES AND DETAILS

SCALE: NONE
N.T.S. **5**

POWER TRENCH DETAIL

SCALE: NONE
3

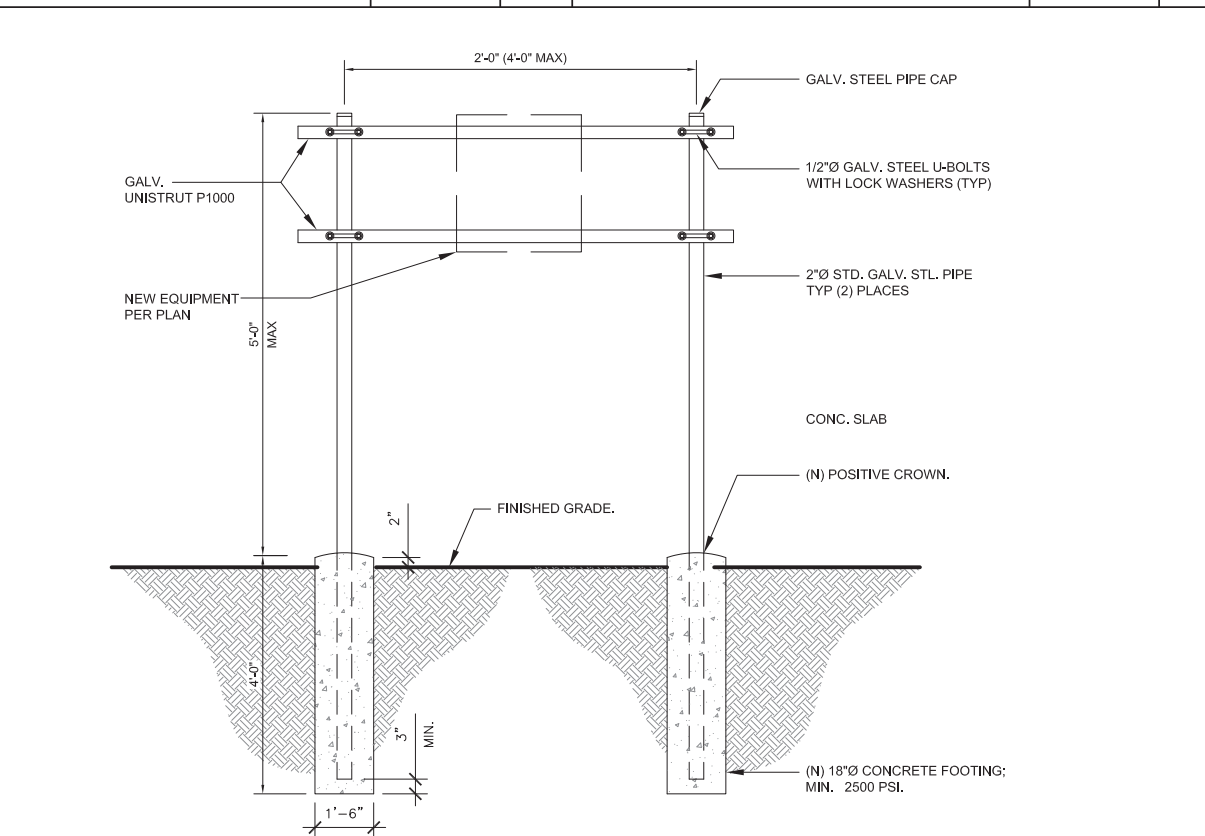


PANEL MOUNTING

SCALE: NONE
4

STUB-UP

SCALE: NONE
2



H-FRAME DETAIL

SCALE: NONE
1



125 KLUG CIRCLE
CORONA, CALIFORNIA 92880

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SITE NAME
QUEST DIAGNOSTICS

33608 ORTEGA HIGHWAY
SAN JUAN CAPISTRANO, CALIFORNIA 92675

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08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE

DETAILS

A-3.4

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07/13/23	ZONING SUBMITTAL (P1-B7)
08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE

SPECIFICATIONS

A-4

VHLPX3-11W-4WH/A



0.9m | 3 ft ValuLine® High Performance Low Profile Antenna,
10.125–11.700 GHz, PDR100 flange, white antenna, composite
broadband gray radome without flash, standard pack—one-piece reflector

Product Classification

Product Type	Microwave antenna
Product Brand	ValuLine®

General Specifications

Antenna Type	VHLPX - ValuLine® High Performance Low Profile Antenna, dual-polarized
---------------------	--

Antenna Input	PDR100
Antenna Color	White
Reflector Construction	One-piece reflector
Radome Color	Gray
Radome Material	Composite Broadband
Flash Included	No
Side Struts, Included	0
Side Struts, Optional	1 inboard

Dimensions

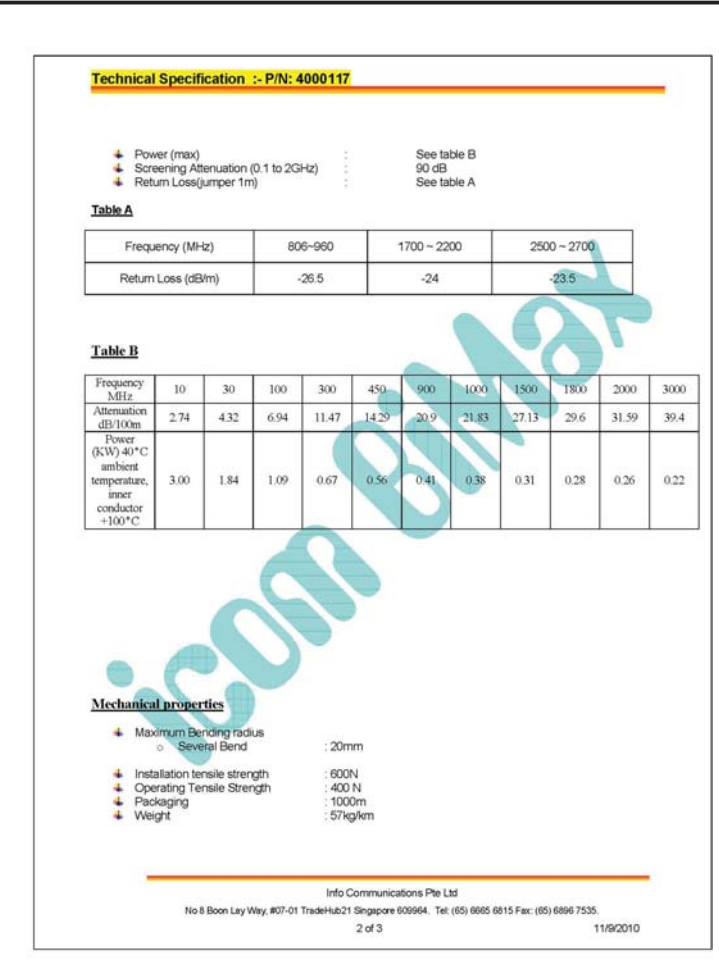
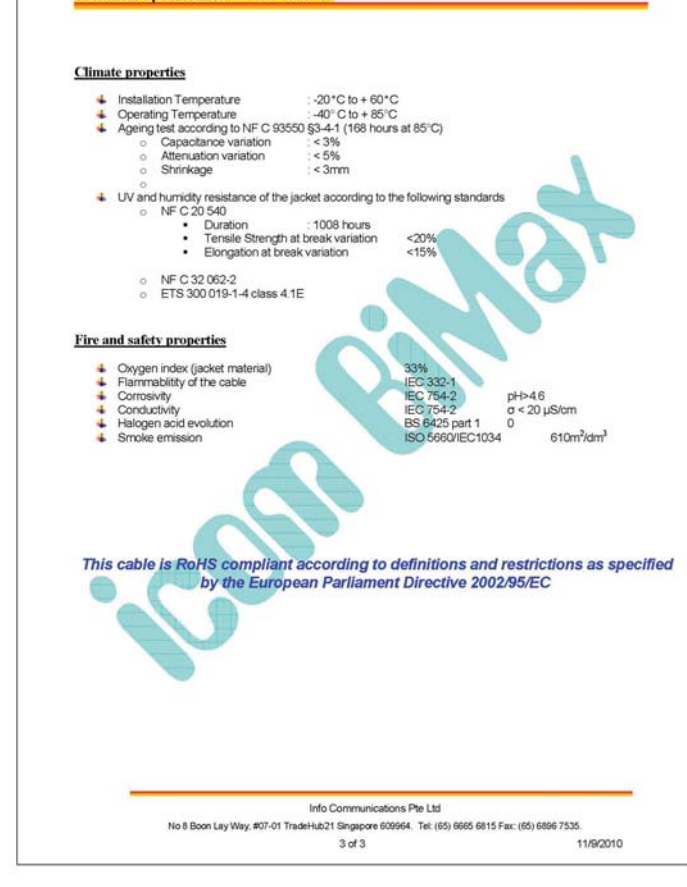
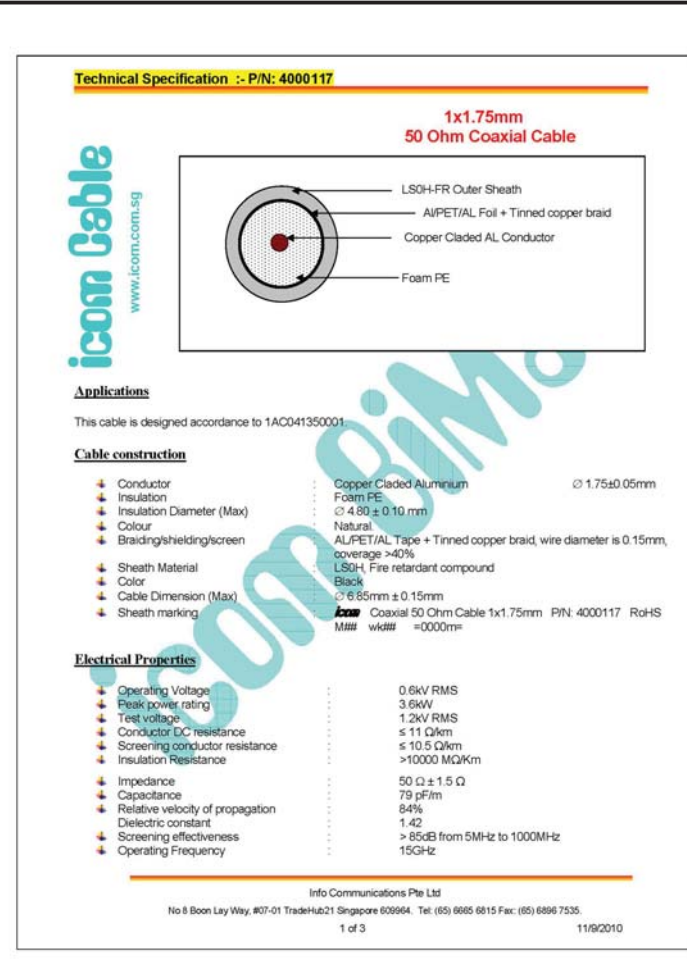
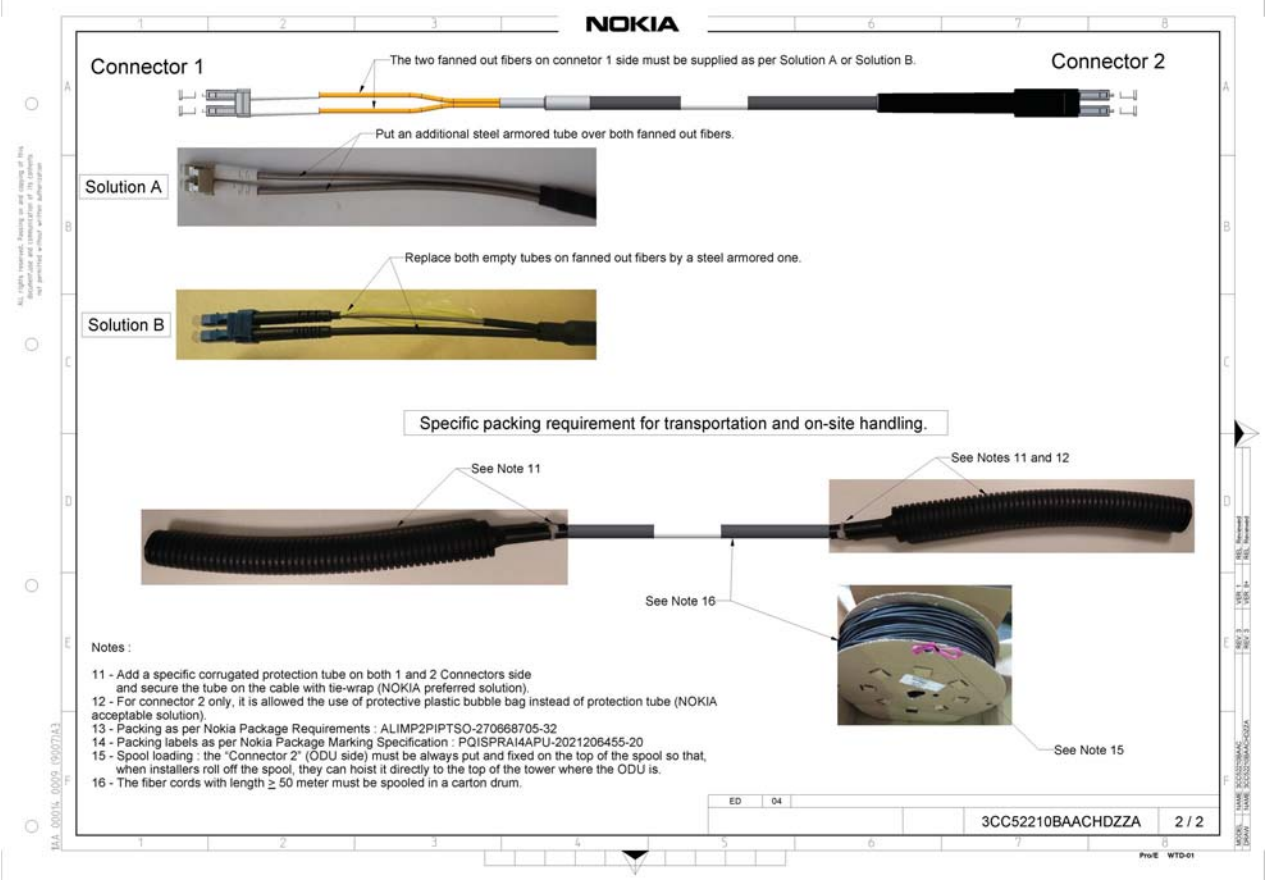
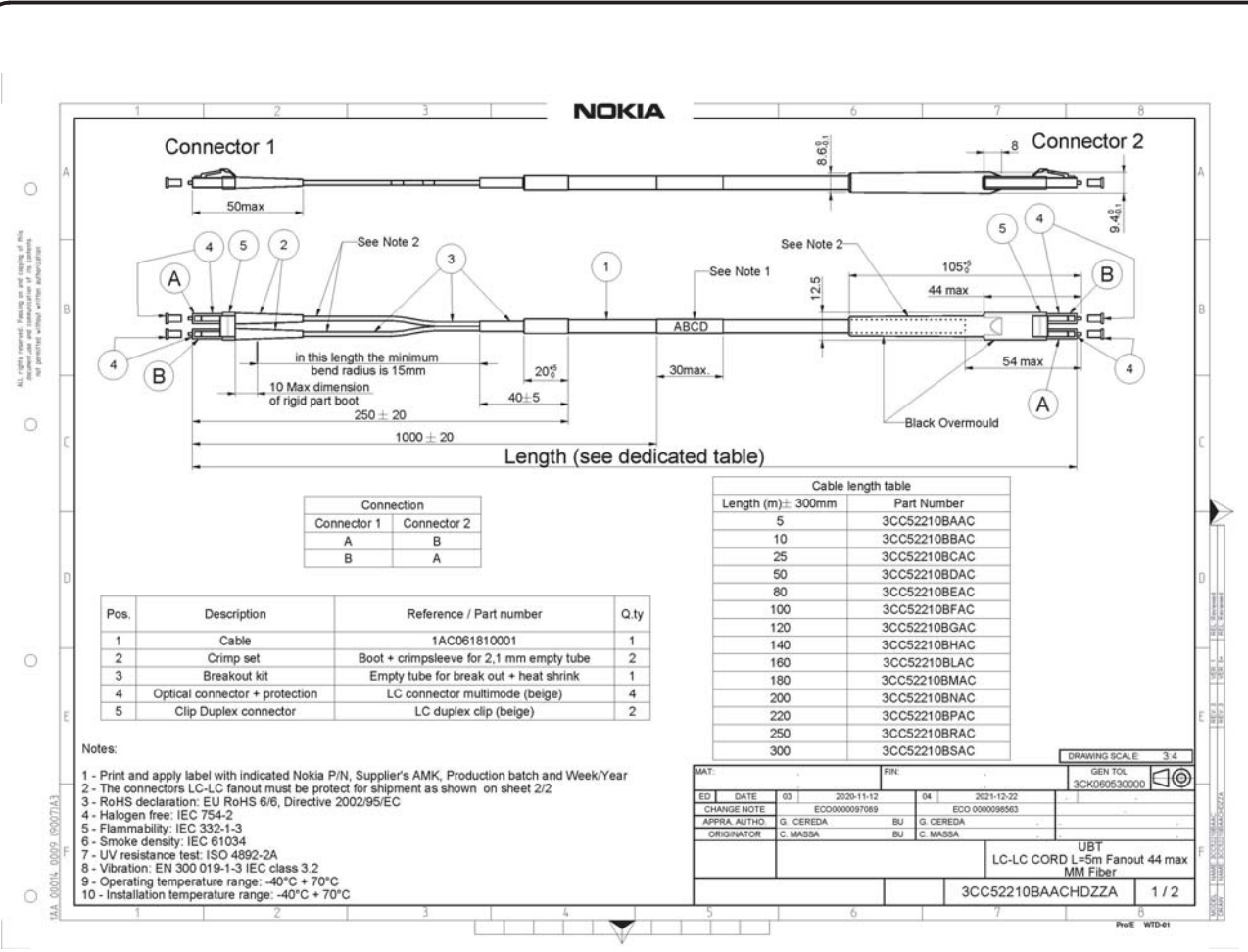
Diameter, nominal	0.9 m 3 ft
--------------------------	--------------

Mechanical Specifications

Compatible Mounting Pipe Diameter	90 mm–120 mm 3.5 in–4.7 in
Fine Azimuth Adjustment Range	±15°
Fine Elevation Adjustment Range	±15°
Wind Speed, operational	180 km/h 111.847 mph
Wind Speed, survival	250 km/h 155.343 mph

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MasTec Network Solutions
 125 KLUG CIRCLE
 CORONA, CALIFORNIA 92880

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STAMP
 REGISTERED PROFESSIONAL ENGINEER
 JOSEPH RUSSELL KING
 C93286
 CIVIL
 STATE OF CALIFORNIA
 Digitally signed by Joseph Russell King
 DN: cn=Joseph Russell King, o=MasTec, email=jrking@mas-tec.com, c=US, postalCode=92880, postalCode=92880, postalCode=92880

PREPARED FOR

APPROVALS

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PROJECT NAME
MICROWAVE UPGRADE

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QUEST DIAGNOSTICS

33608 ORTEGA HIGHWAY
 SAN JUAN CAPISTRANO, CALIFORNIA 92675

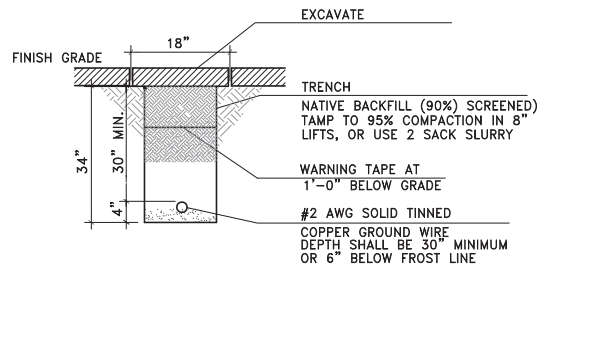
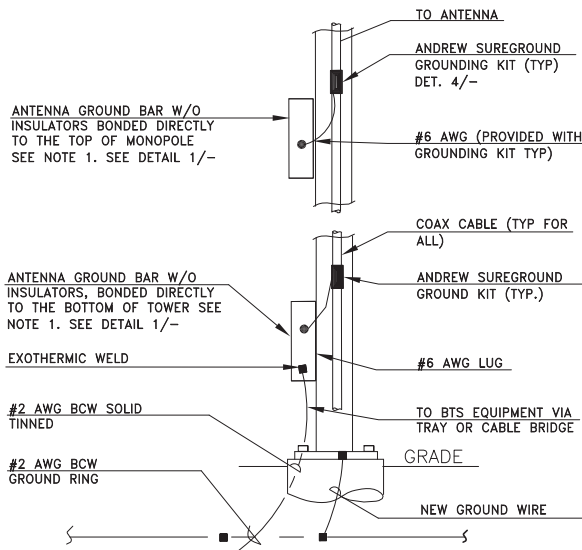
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08/16/24	ZD JX COMMENTS (P1-B8)

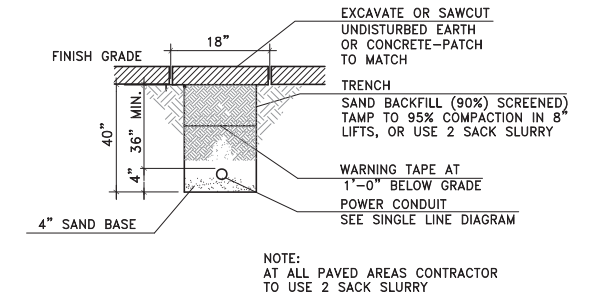
SHEET TITLE
SPECIFICATIONS

A-4.1

NOTE:
1. NUMBER OF GROUNDING BARS MAY VARY DEPENDS ON THE TYPE OF MONOPOLE, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED.

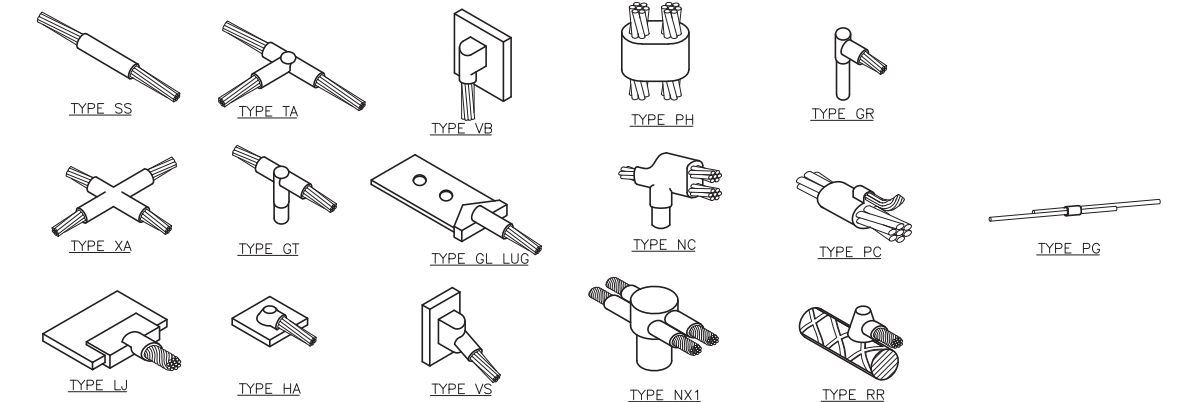


GROUNDING TRENCH SCALE: NONE **7**



POWER TRENCH SCALE: NONE **6**

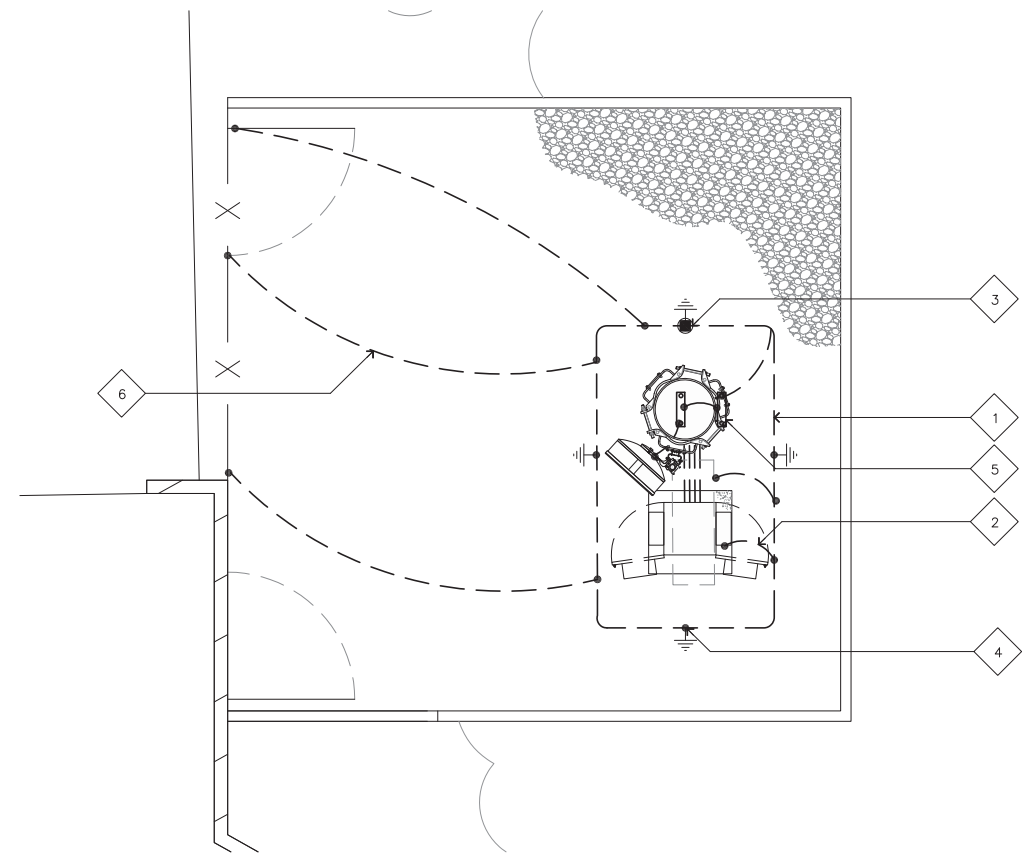
CABLE GROUNDING SCALE: NONE **8**



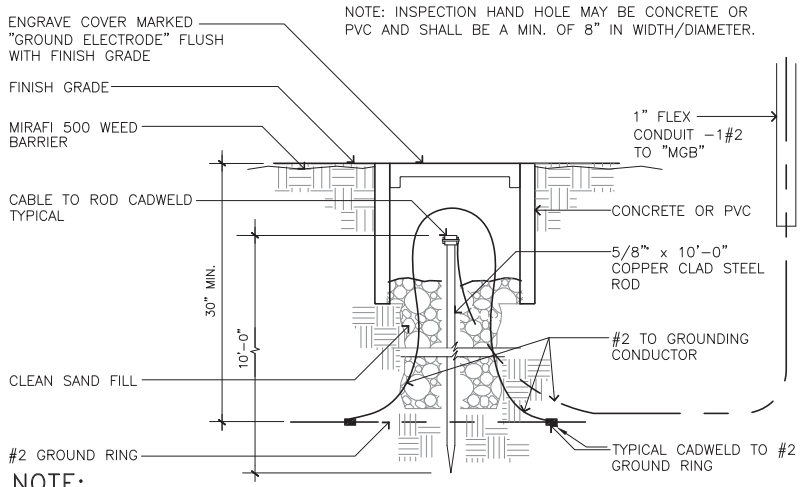
TYPICAL CADWELD TYPES SCALE: NONE **5**

GROUNDING PLAN KEYNOTES

- 1 AWG 2 BCW GROUND RING BURIED 30" BELOW GRADE.
- 2 AWG 2 BCW.
- 3 GROUND TEST WELL.
- 4 GROUND ROD (EVERY 10', NOT TO EXCEED).
- 5 ANTENNA GROUND BAR ON TOP AND BOTTOM OF POLE.
- 6 FENCE GROUNDING

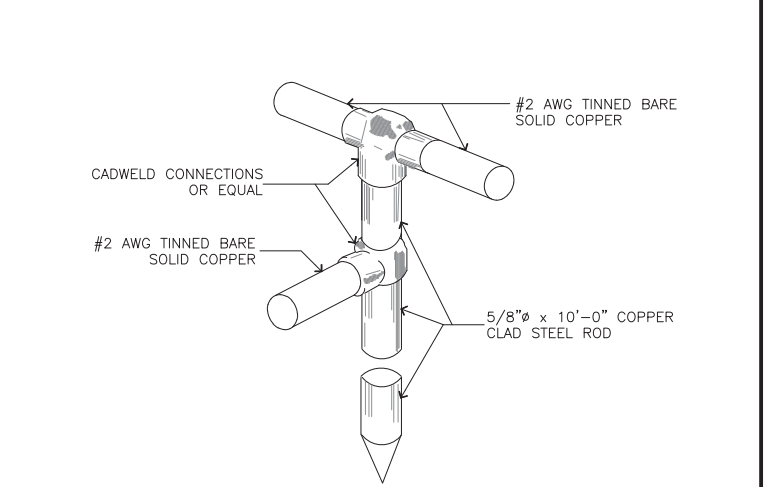


LEASE AREA GROUNDING PLAN SCALE: NONE **2**



NOTE:
CONTRACTOR IS TO PERFORM A FALL-OF-POTENTIAL GROUND RESISTANCE MEASUREMENT TEST AND RESULTS MUST NOT EXCEED A RESISTANCE READING OF 5 OHMS MAXIMUM IT MAY NE NECESSARY TO PROVIDE AN XIT ROD TO ACCOMPLISH THIS

MAIN GROUND TEST WELL SCALE: NONE **4**



GROUND ROD SCALE: NONE **1**

NOT USED SCALE: NONE **4**

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STAMP
REGISTERED PROFESSIONAL ENGINEER
JOSEPH RUSSELL KING
C93286
Digitally signed by Joseph Russell King
Date: 2023.09.21 15:47:33 -0400
STATE OF CALIFORNIA
CIVIL ENGINEER

PREPARED FOR

APPROVALS

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33608 ORTEGA HIGHWAY
SAN JUAN CAPISTRANO, CALIFORNIA 92675

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08/16/24	ZD JX COMMENTS (P1-B8)

SHEET TITLE
GROUNDING PLAN AND DETAILS



A valmont COMPANY

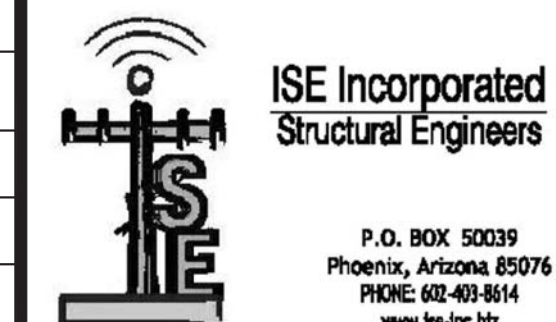
ATT QUEST DIAGNOSTICS MW UPGRADE
65'-0" MONOPOLE
33608 ORTEGA HWY. SAN JUAN CAPISTRANO, CA 92675

SHEET INDEX

Table with 2 columns: Sheet ID (PF1-PF4) and Description (PRODUCT INFORMATION & NOTES, POLE ELEVATION, DETAILS).



A valmont COMPANY
LARSON JOB #: 584384



ISE JOB #: 18937

PROJECT INFORMATION

DATE: JUNE 19, 2023
ISE JOB NO. 18937 By: PB
CUSTOMER: LARSON VALMONT
PRODUCT: 65'-0" MONOPOLE
SITE ID: ATT QUEST DIAGNOSTICS MW UPGRADE
LOCATION: 33608 ORTEGA HWY. SAN JUAN CAPISTRANO, CA 92675
LATITUDE: 33.561897 N
LONGITUDE: -117.544031 W

DESIGN CRITERION:

2022 CBC, 95 MPH BASIC WIND SPEED, TIA-222-H, EXPOSURE C, TOPOGRAPHIC CATEGORY 1, RISK CATEGORY II, GROUND ELEVATION 601'

POLE SPECIFICATIONS

Table with 7 columns: Section, Length (ft.), Weight (kips), Tkn. (in.), Lap Splice (in.), Diameter Top (in.), Diameter Bot (in.).

Table with 3 columns: Component, Weight, Dimensions.

TABLE INDICATES RAW STEEL WEIGHTS. FINAL GALVANIZED WEIGHTS SHALL BE APPROXIMATELY 22% GREATER.

EARTHQUAKE DESIGN DATA

IMPORTANCE FACTOR (I): 1
OCCUPANCY CATEGORY: II

Ss = 1.161 Sds = 0.929
S1 = 0.417 Sd1 = 0.417

SEISMIC DESIGN CATEGORY: D
SITE CLASS: C
SEISMIC RESPONSE COEFFICIENT: 0.099
DESIGN BASE SHEAR: 51.468
RESPONSE MODIFICATION FACTOR (R): 1.50

ANALYSIS PROCEDURE USED EQUIVALENT LATERAL FORCE PROCEDURE
DESIGN LOADS (Unfactored Base Wind Reactions)

Table with 2 columns: Load Type, Value.

DEFLECTIONS

Table with 5 columns: Elev. (ft.), Lateral (in.), Sway (°), Lateral (in.), Sway (°).

APPURTENANCES

Table with 3 columns: Elevation (ft.), Qty, Description.

GENERAL NOTES:

- 1. ALL STEEL SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL" ASTM A36, UNLESS OTHERWISE NOTED ON THE STRUCTURAL PLANS OR BELOW.
2. ALL ROUND STEEL PIPE SHALL MEET THE REQUIREMENTS OF API-5LX GR. 42 (42 KSI YIELD POINT MATERIAL).
...
15. THE ANTENNA MOUNT SHALL BE FABRICATED BY LARSON VALMONT, LLC. OR AN APPROVED FABRICATOR OF CONVENTIONAL STEEL STRUCTURES.

FOUNDATION NOTES:

- 1. THE GEOTECHNICAL ENGINEER (OR THE APPROPRIATE INSPECTOR) SHALL INSPECT THE EXCAVATION PRIOR TO PLACING REINFORCING STEEL OR FORMS.
2. THE CONTRACTOR SHALL DETERMINE THE MEANS AND METHODS TO SUPPORT THE EXCAVATION DURING CONSTRUCTION.
...
11. "SUMMARY OF SPECIAL INSPECTION"

ERECTION NOTES:

- 1. ALL ANTENNA COAXIAL CABLES SHALL BE RUN INSIDE THE MONOPOLE SHAFT.
2. THE CONTRACTOR SHALL INSTALL THE ANTENNA AND MOUNT AS REQUIRED BY THE OWNER.
...
9. ANTENNA MOUNT SHALL NOT BE USED AS A CLIMBING DEVICE. WORKERS SHALL ALWAYS TIE OFF TO A SPECIFIED CLIMBING POINT.

SUMMARY OF SPECIAL INSPECTIONS

Table with 3 columns: NO., DESCRIPTION OF TYPE OF INSPECTION REQUIRED, LOCATION, REMARKS, ETC, CONTINUOUS / PERIODIC.

ATT QUEST DIAGNOSTICS MW UPGRADE
65'-0" MONOPOLE

PRODUCT INFORMATION & NOTES

33608 ORTEGA HWY. SAN JUAN CAPISTRANO, CA 92675

THIS DESIGN DRAWING IS PROPRIETARY & CONFIDENTIAL. THE INFORMATION IN THIS DRAWING IS THE SOLE PROPERTY OF LARSON.



PROGRESS LOG

Table with 3 columns: Date, Description, Initials.

SHEET NUMBER PF1

PROGRESS 1

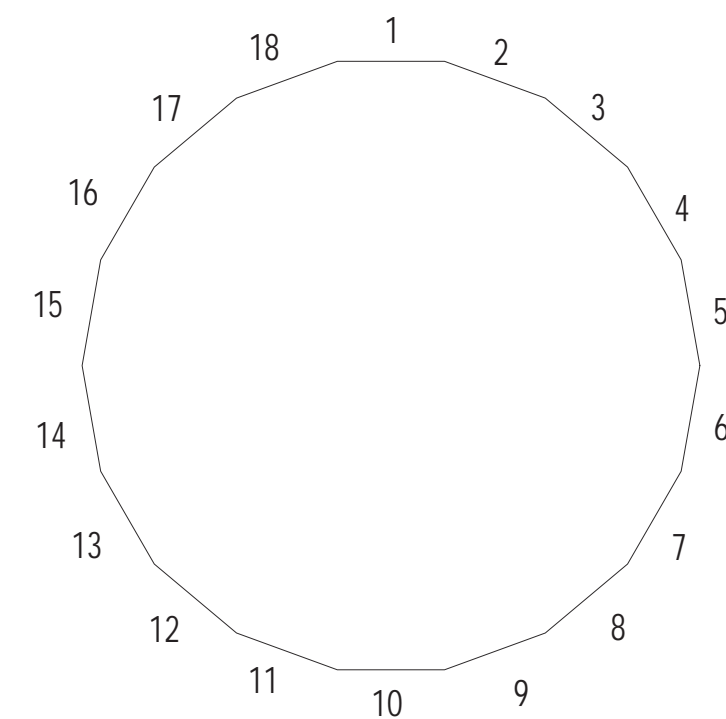
DRAWING DATE June 28, 2023

Top Plate: three 6' branches

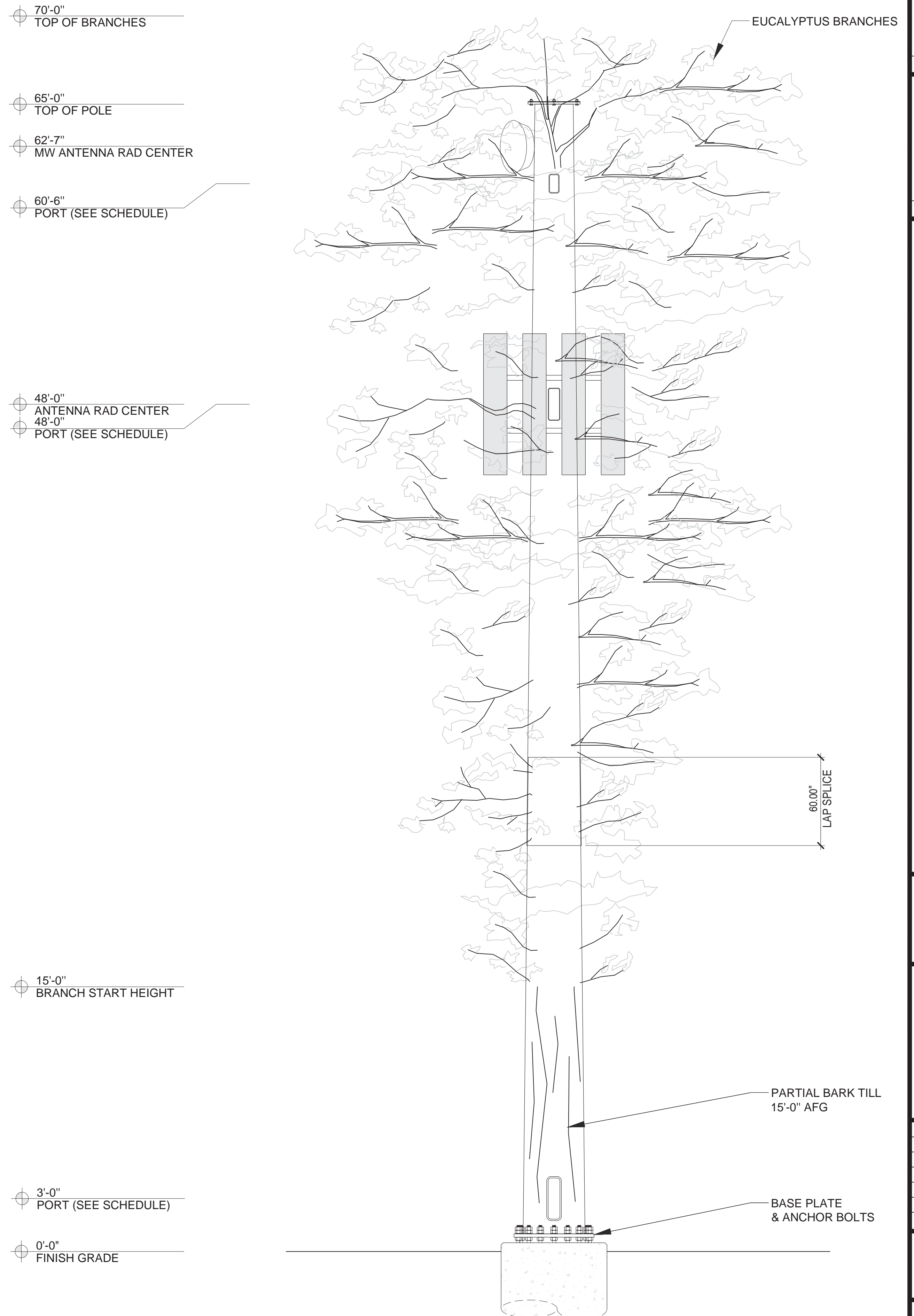
Dist. From Top	0/1	2/2	4/3	6/4	8/5	10/6	12/7	14/8	16/9	18/10	20/11	22/12	24/13	26/14	28/15	30/16	32/17	34/18	Dist. From Top	MOUNT
6"																			6"	50
1"																			1"	50
1'-6"																			1'-6"	60
2"																			2"	MOUNT
2'-6"																			2'-6"	MOUNT
3"																			3"	MOUNT
3'-6"																			3'-6"	60
4"																			4"	70
4'-6"																			4'-6"	70
5"																			5"	70
5'-6"																			5'-6"	70
6"																			6"	70
6'-6"																			6'-6"	70
7"																			7"	70
7'-6"																			7'-6"	70
8"																			8"	70
8'-6"																			8'-6"	70
9"																			9"	70
9'-6"																			9'-6"	70
10"																			10"	70
10'-6"																			10'-6"	70
11"																			11"	70
11'-6"																			11'-6"	70
12"																			12"	70
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13"																			13"	70
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14"																			14"	70
14'-6"																			14'-6"	70
15"																			15"	70
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16"																			16"	70
16'-6"																			16'-6"	70
17"																			17"	70
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41"																			41"	70
41'-6"																			41'-6"	70
42"																			42"	70
42'-6"																			42'-6"	70
43"																			43"	70
43'-6"																			43'-6"	70
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46"																			46"	70
46'-6"																			46'-6"	70
47"																			47"	70
47'-6"																			47'-6"	70
48"																			48"	70
48'-6"																			48'-6"	70
49"																			49"	70
49'-6"																			49'-6"	70
50"																			50"	70

3 BRANCH DISTRIBUTION

NOTES:
 1. BRANCHES SHOWN FOR ILLUSTRATION PURPOSE ONLY
 2. HANDHOLES NOT SHOWN AT TRUE ORIENTATION. REFER TO SCHEDULE



2 FLAT NUMBERING



1 POLE ELEVATION

SCALE: N.T.S.

**ATT QUEST DIAGNOSTICS MW UPGRADE
 65'-0" MONOPOLE
 POLE ELEVATION**

33608 ORTEGA HWY. SAN JUAN CAPISTRANO, CA 92675

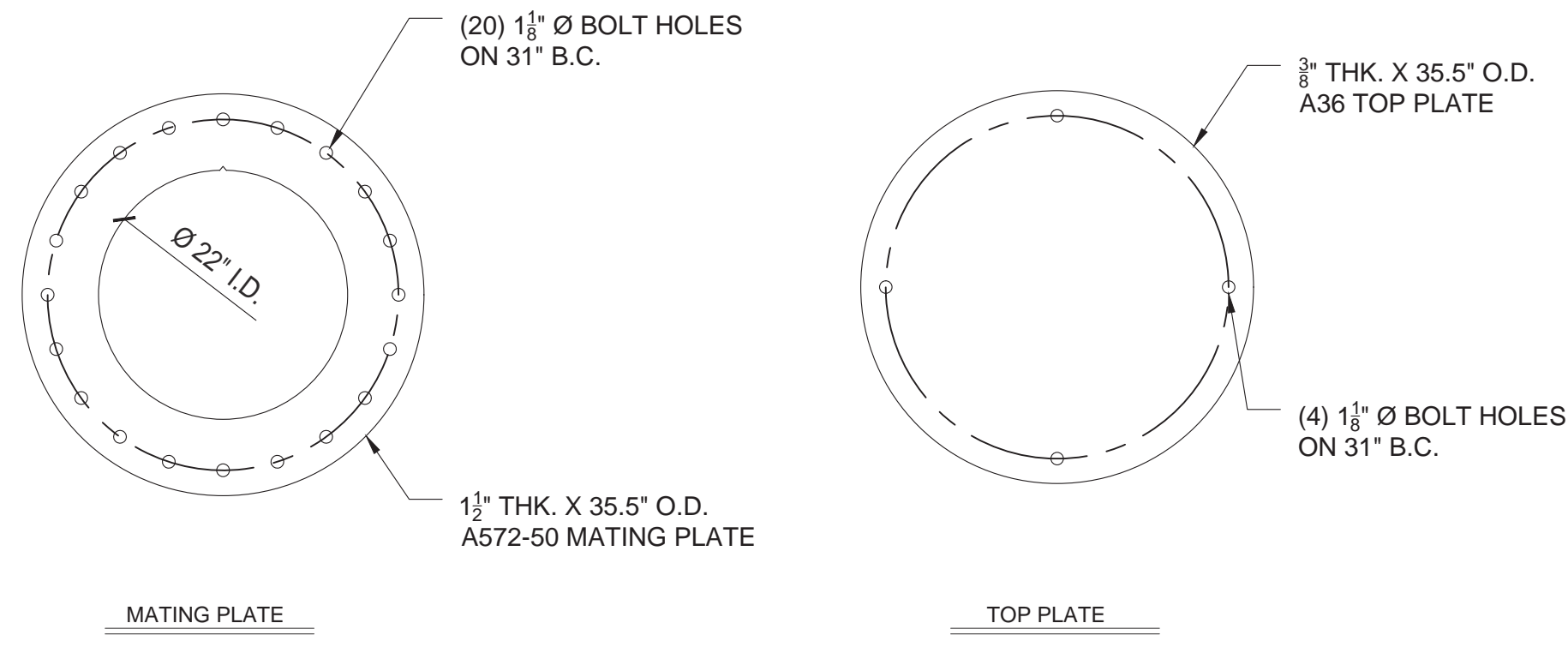
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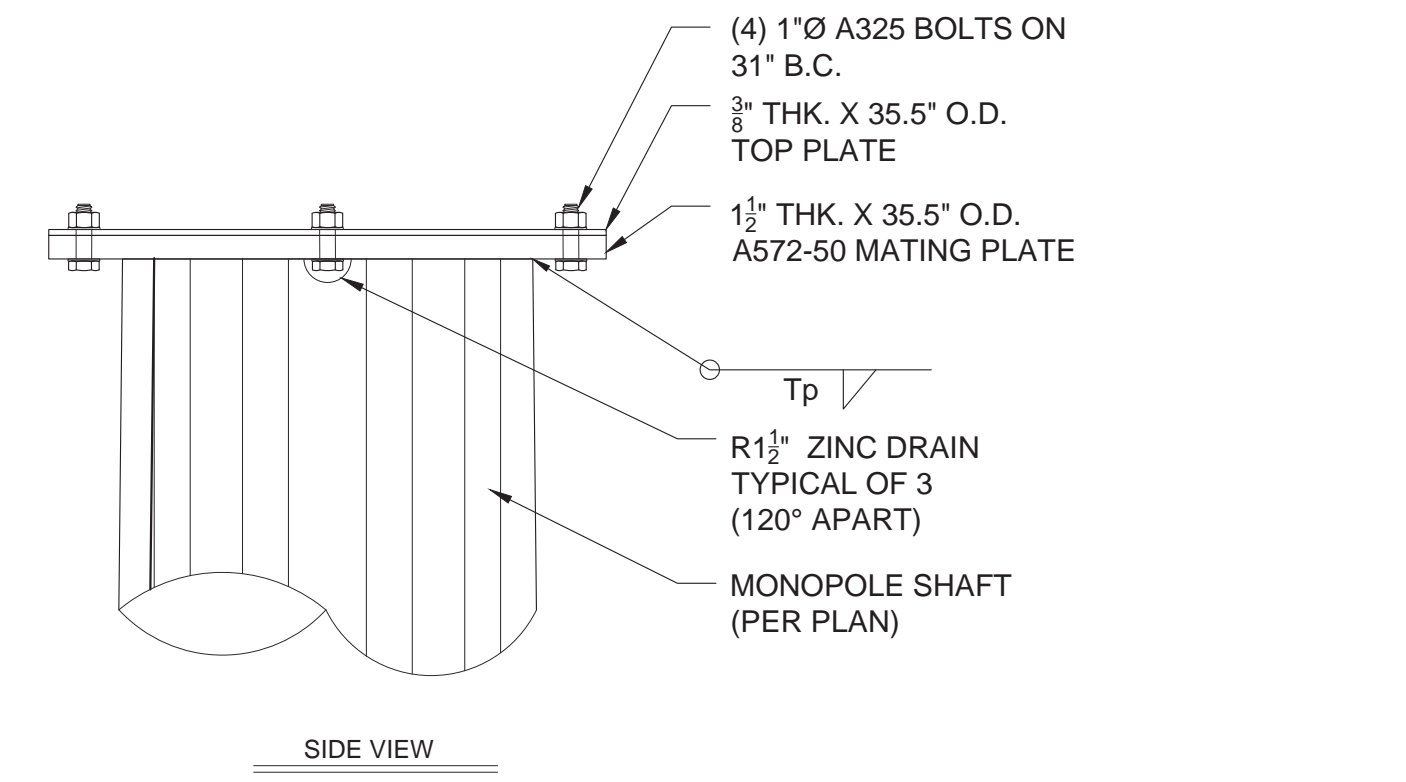
PROGRESS LOG

DATE	DESCRIPTION	BY
06/28/23	BRANCH CHANGE	PB
06/19/23	ISSUED TO CLIENT	PB

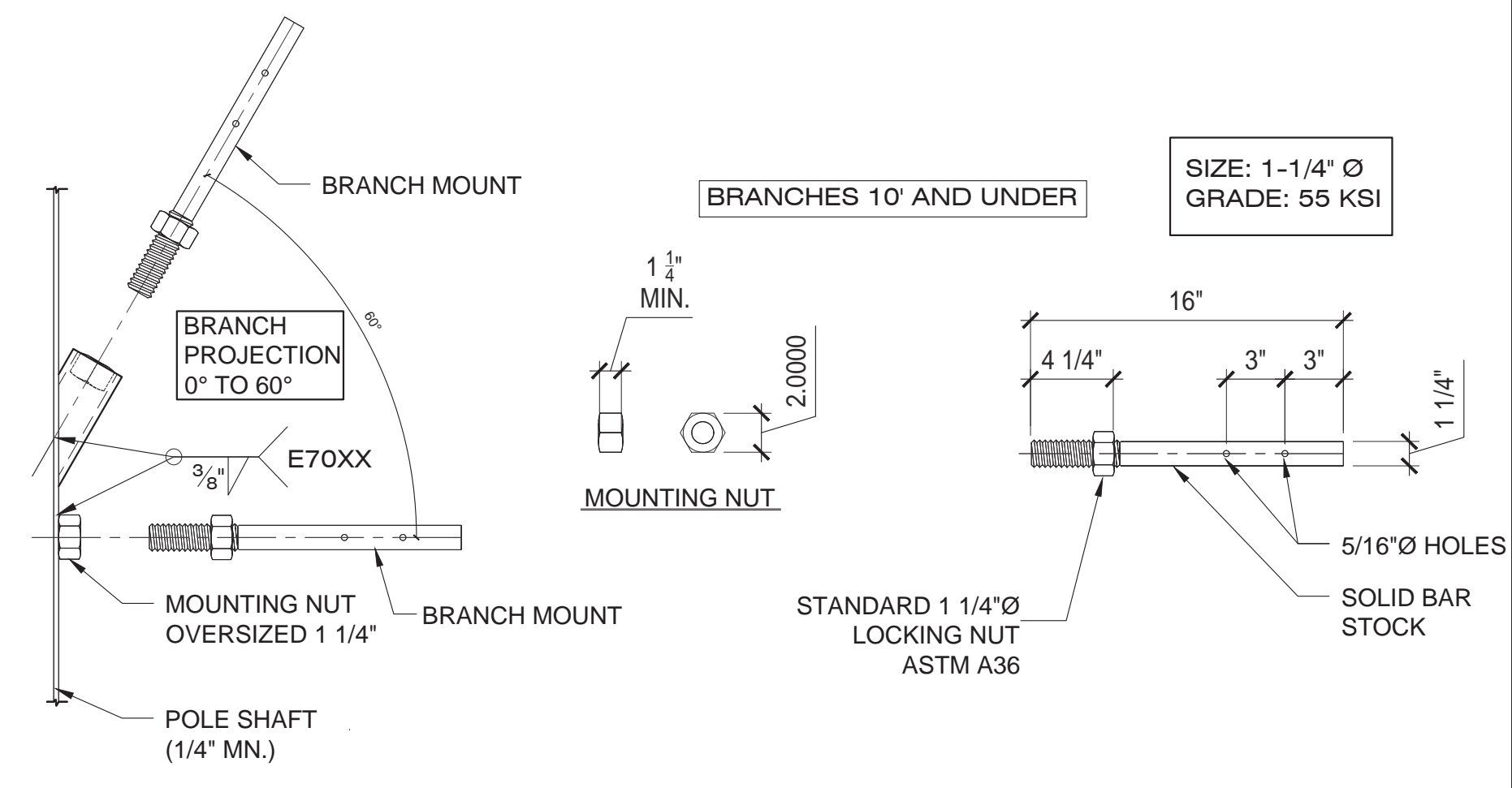
SHEET NUMBER	PROGRESS
PF2	1
DRAWING DATE	June 28, 2023



6 MATING AND TOP PLATE SCALE: N.T.S.



7 POLE TOP DETAIL SCALE: N.T.S.



8 BRANCH RECEIVER DETAIL (10' & SHORTER) SCALE: N.T.S.

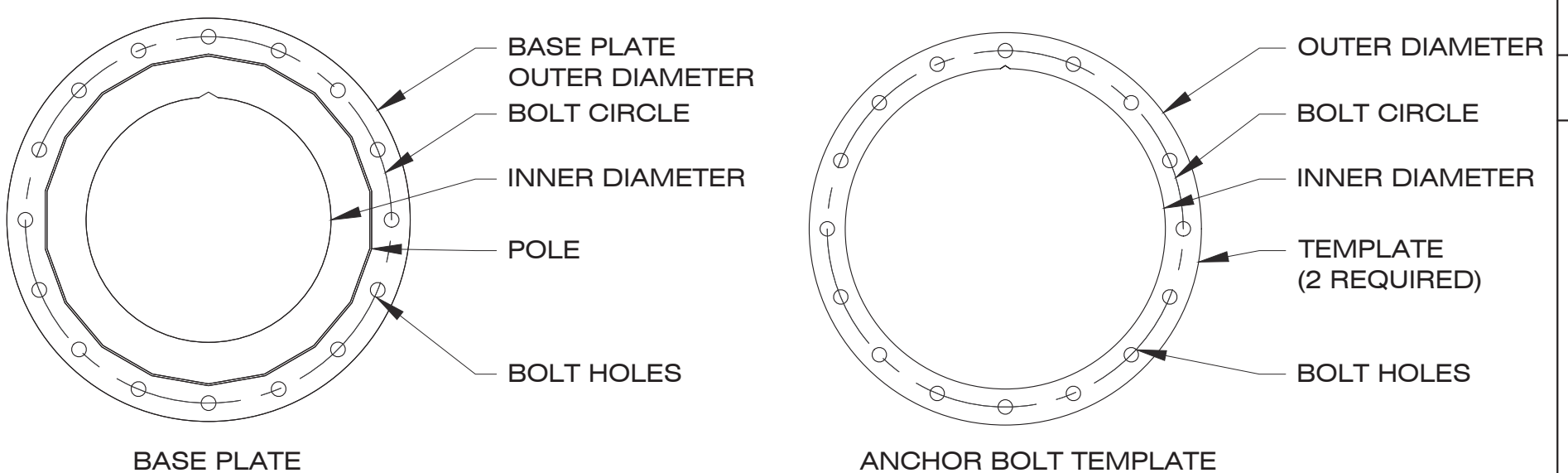


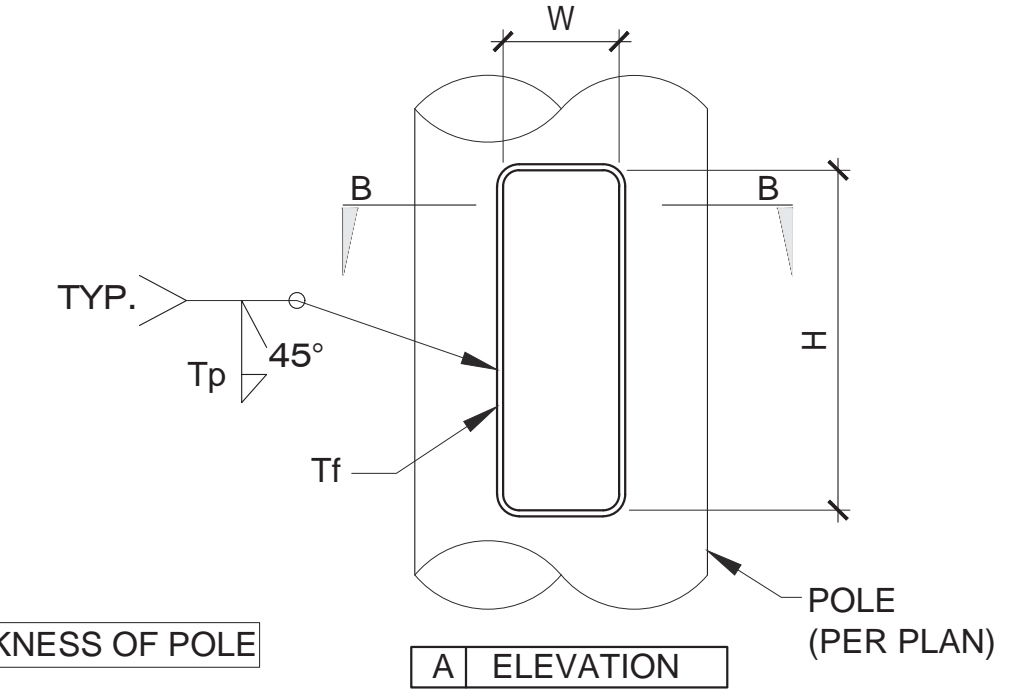
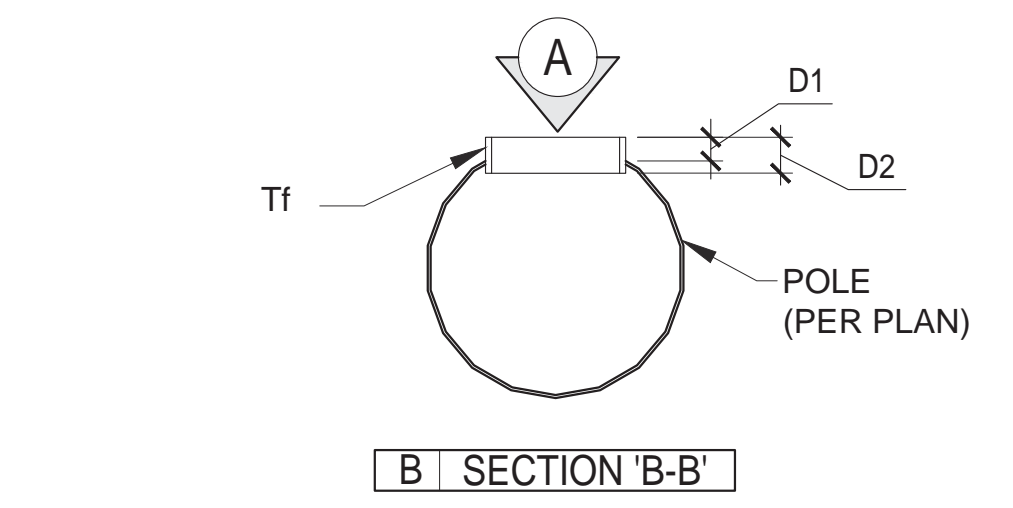
PLATE	GRADE	THICKNESS (IN)	OUTER DIAMETER (IN)	INNER DIAMETER (IN)	BOLT CIRCLE (IN)	BOLT HOLE DIAMETER (IN)
BASE PLATE	A572 GR50	2.25	54.5	31.5	48.5	2.625
ANCHOR BOLT TEMPLATE	A36	0.5	53.5	43.5	48.5	2.375

BOLT	GRADE	NO. OF BOLTS	BOLT DIAMETER (IN)	TOTAL LENGTH (IN)	EMBEDMENT (IN)
ANCHOR BOLTS - MAT	A615 GR 75	16	2.25	78	66

5 BASE PLATE AND ANCHOR BOLTS SCALE: N.T.S.

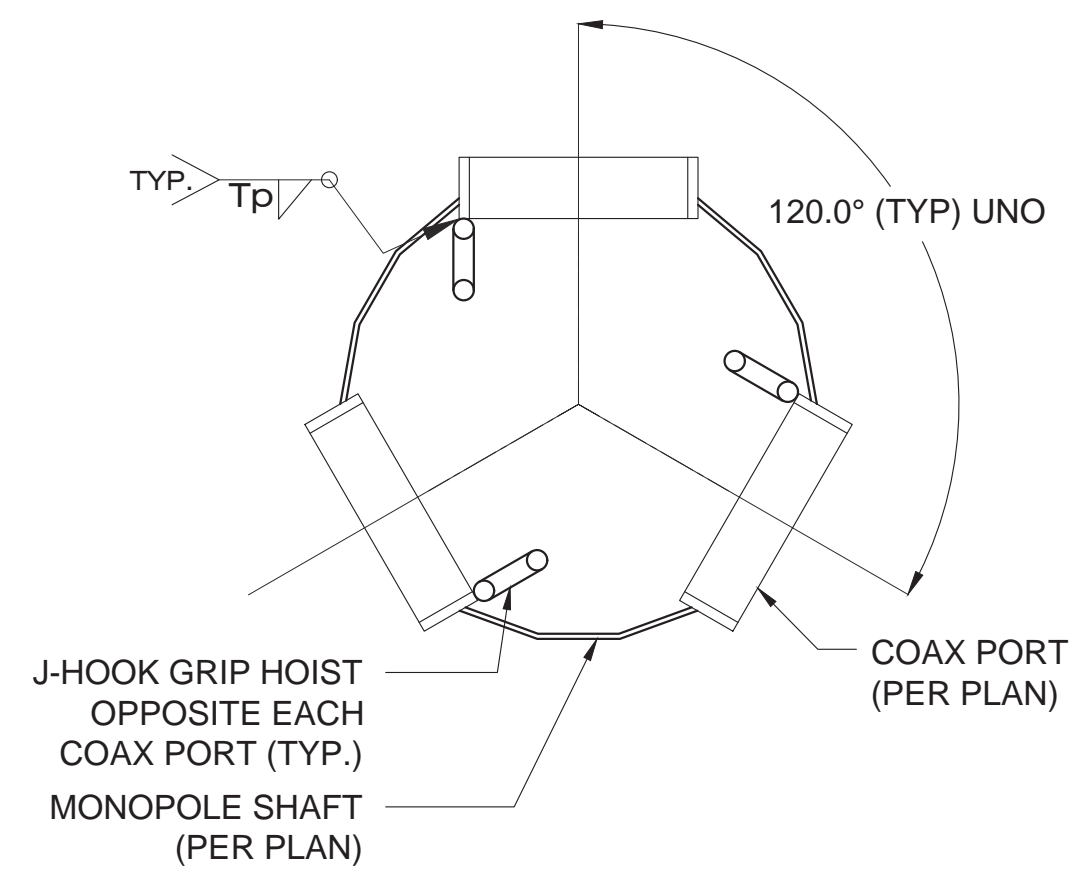
COAX HAND/ACCESS HOLE SCHEDULE

ELEV (AFG)	QTY	W (IN)	H (IN)	AZIMUTH	D1 (IN)	D2 (IN)	Tf (IN)
60'-6"	1	6	12	200°	1 1/2	2 1/2	1/2"
48'-0"	3	8	22	0°, 120°, 240°	1 1/2	2 1/2	1/2"
3'-0"	2	10	30	0°, 180°	2 1/2	4 1/2	3/4"

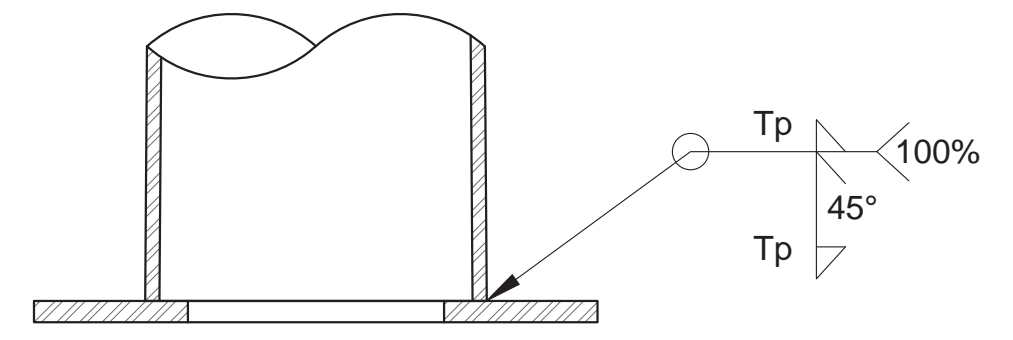


Tp = THICKNESS OF POLE
Tf = THICKNESS OF FLANGE

1 COAX HAND HOLES DETAILS SCALE: N.T.S.



2 J-HOOK INSIDE POLE AT COAX PORTS SCALE: N.T.S.



3 POLE/BASE PLATE CONNECTION SCALE: N.T.S.

LARSON
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ISE Incorporated
Structural Engineers
P.O. BOX 50039
Phoenix, Arizona 85076
PHONE: 602-403-8614
www.ise-inc.biz
ISE JOB #: 18937

ATT QUEST DIAGNOSTICS MW UPGRADE
65'-0" MONOPOLE
DETAILS
33608 ORTEGA HWY. SAN JUAN CAPISTRANO, CA 92675

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PROGRESS LOG

DATE	DESCRIPTION	BY
06/28/23	BRANCH CHANGE	PB
06/19/23	ISSUED TO CLIENT	PB

SHEET NUMBER: PF3
PROGRESS: 1
DRAWING DATE: June 28, 2023

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PROGRESS LOG

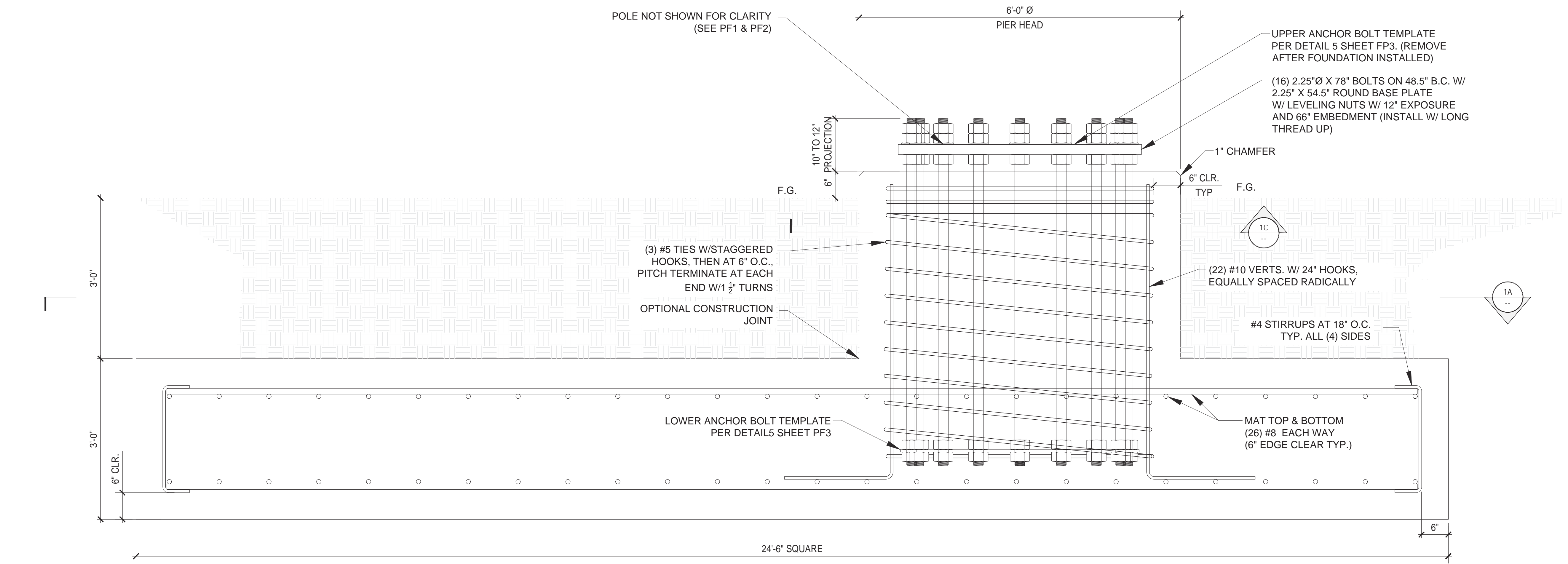
NO.	DATE	DESCRIPTION	BY
1	06/28/23	BRANCH CHANGE	PB
0	06/19/23	ISSUED TO CLIENT	PB

SHEET NUMBER PROGRESS

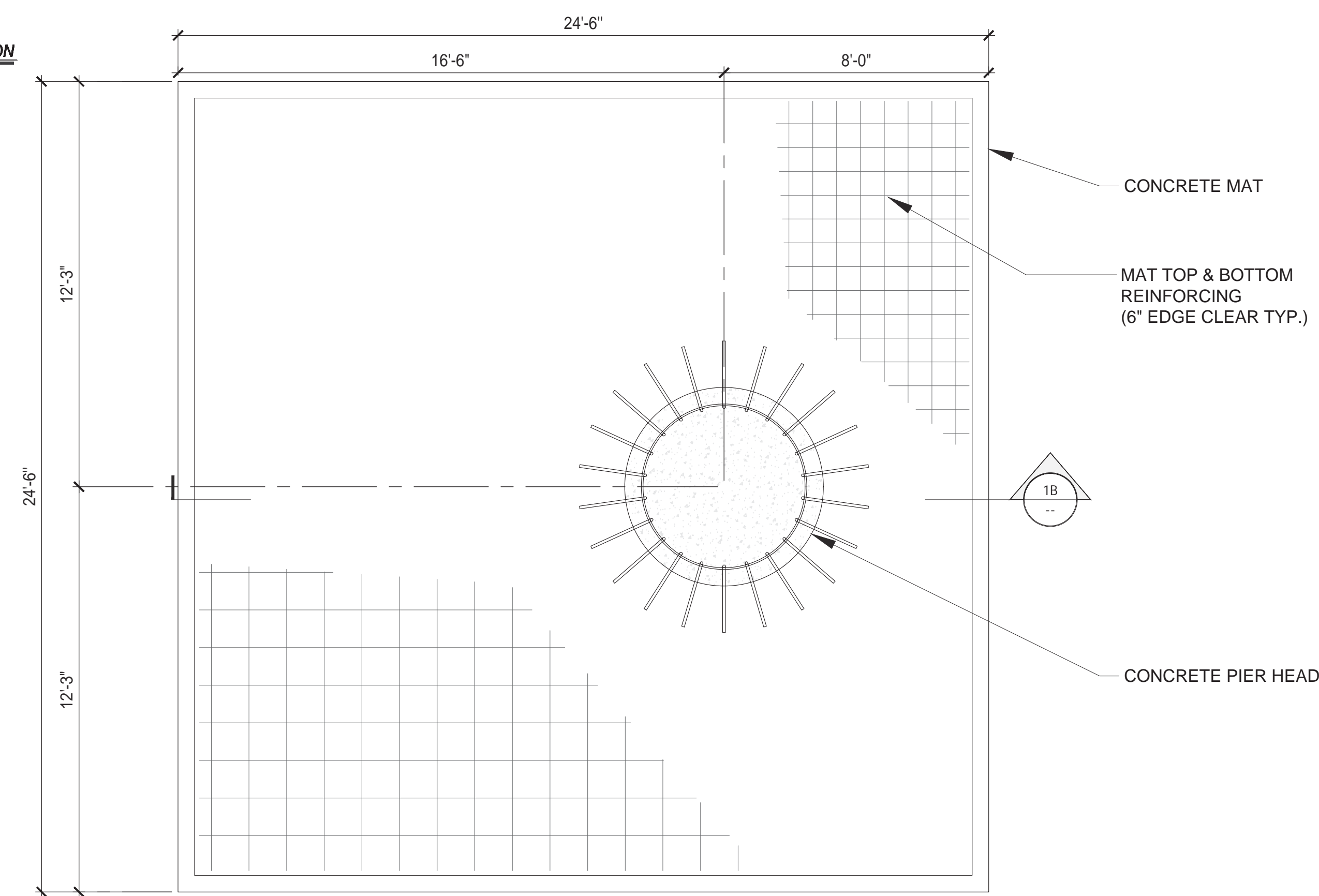
PF4 **1**

DRAWING DATE

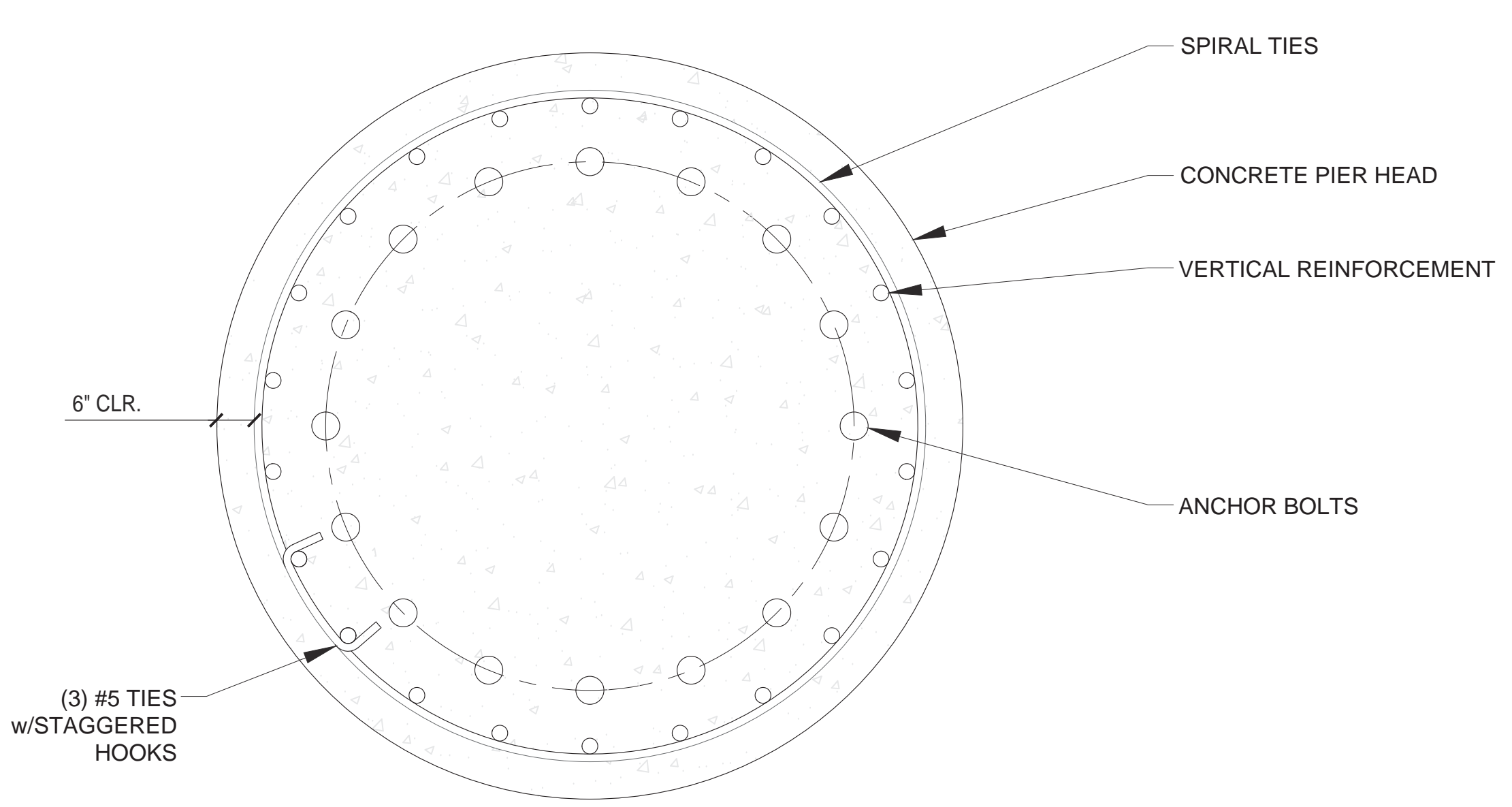
June 28, 2023



1B MAT FOUNDATION SECTION



1A PLAN VIEW



1C PIER SECTION