

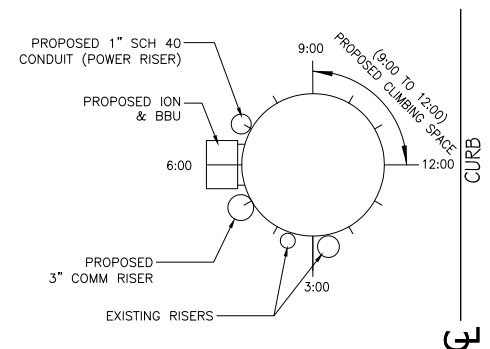
SITE PLAN

SCALE: 1"=10'-0" 0 5' 10' 1



EXISTING PHOTO

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE. 1-3" CROWN CASTLE RISER @ 8:00 1-3" POWER RISER @ 10:00



EXISTING PHOTO

SCALE: N.T.S. 2

SCALE: N.T.S. 3

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
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3	FXC 02/18/2013	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON16m1
VERIZON MONTECITO-MON16m1

SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7
R.O.W. SOUTH SIDE OF BUENA VISTA DR
(ADJACENT TO 900 BUENA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.4469847
LONG: -119.6106914

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN AND EXISTING PHOTO

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-1

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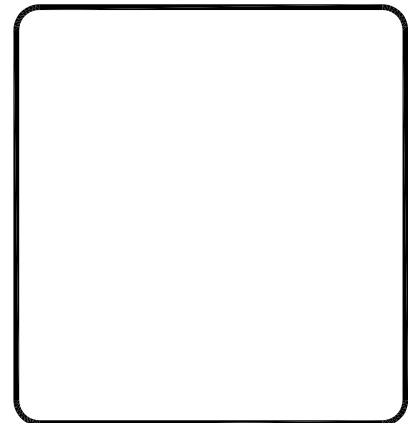
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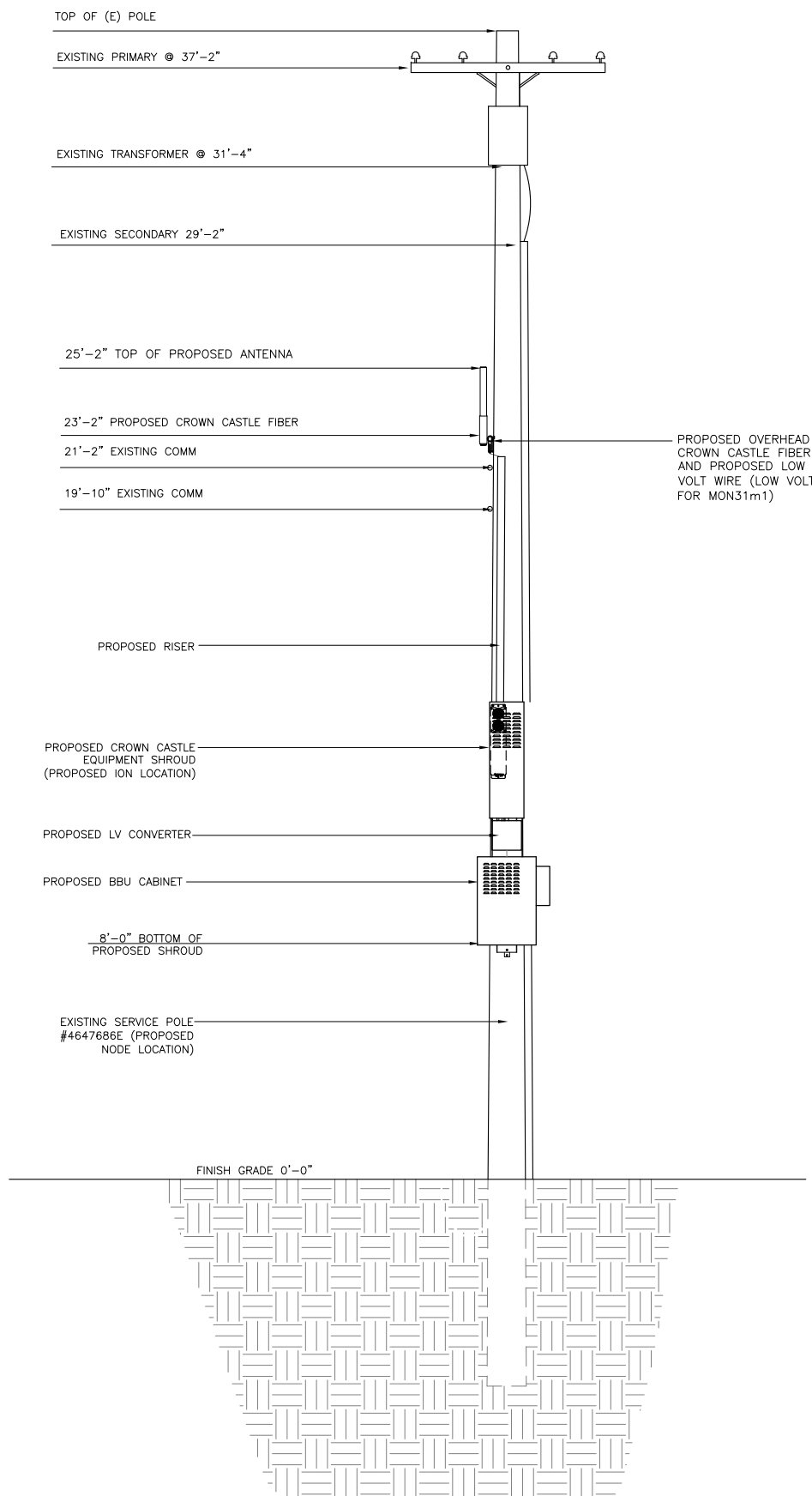
ELEVATION

DRAWING INFO:

DRAWN BY:
FC

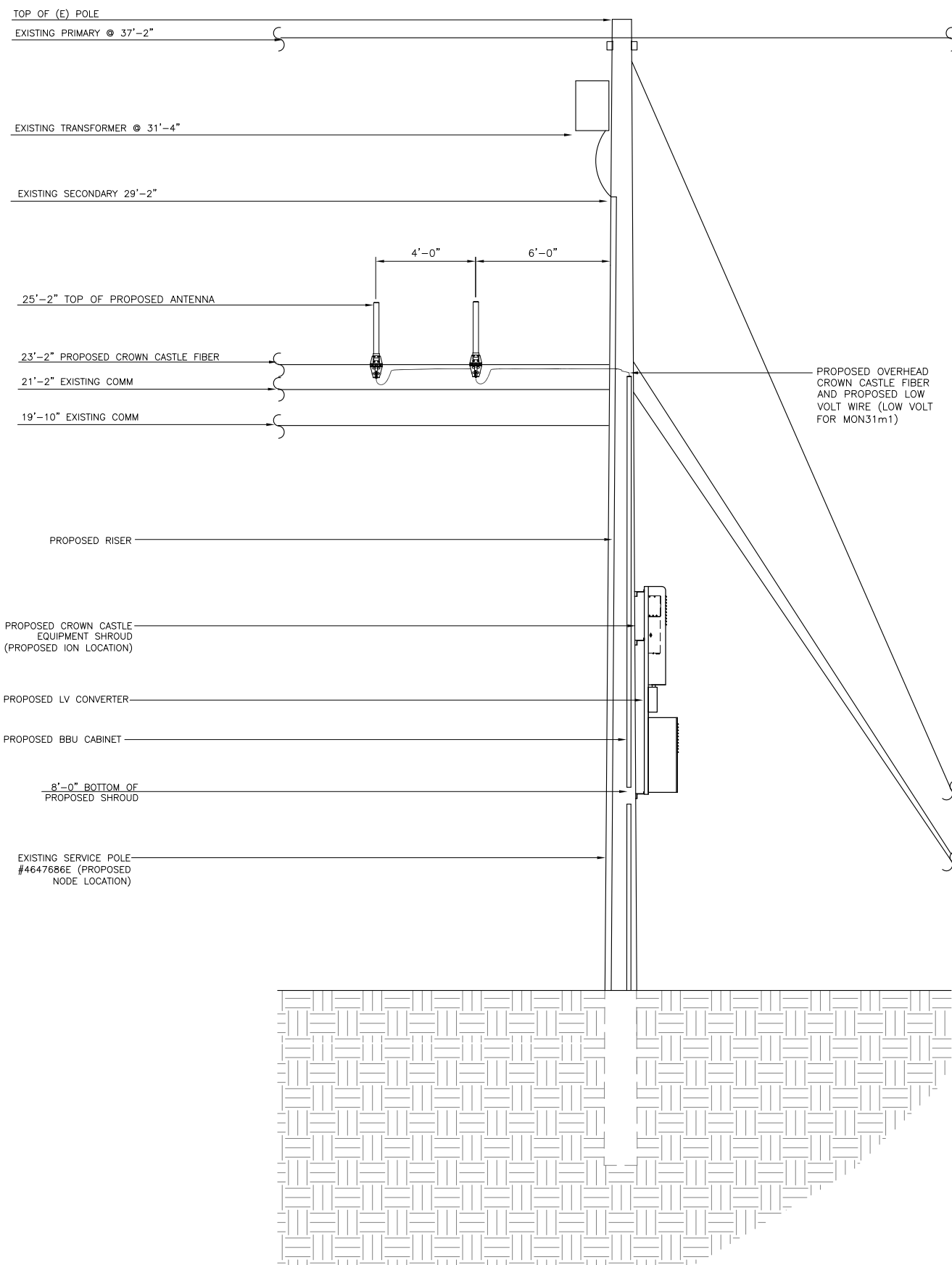
SHEET NUMBER:

A-2



PROPOSED ELEVATION LOOKING NORTH

SCALE: 3/8"=1'-0" 1



PROPOSED ELEVATION LOOKING EAST

SCALE: 3/8"=1'-0" 2

Outdoor Omni-directional Antenna

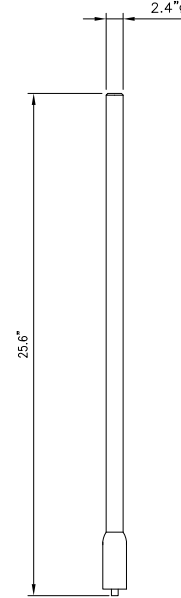


OOA-360V06N0-3 VPoI, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

Technical Specifications

Electrical		696-960	1710-2170
Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	Vertical
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	360
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt—Fixed	deg	0	0
VSWR		1.8	1.8
Maximum Power	W	200	200
Impedance		50	50
Lightning Protection		Direct Ground	Direct Ground

Mechanical		650x60 (25.6x2.4)
Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N—Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S. 1

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	Uplink: 698 to 716/776 to 787 Downlink: 728 to 757
----------------------	-------------------------------------------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	Uplink: 824 to 849 Downlink: 869 to 894
----------------------	--------------------------------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz	Uplink: 1850 to 1915 Downlink: 1930 to 1995
----------------------	------------------------------------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB	IP3 optimized: +10 max. Noise figure optimized: +6 max. 4.5 typical
------------------	---------------------------------------------------------------------------

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
Weight, kg (lb)	40 (88.2)

AlphaCell General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement Extended	4 to 5 year full replacement Extended	4 to 5 year full replacement Extended
Service Life:	220	195	165
Runtime (minutes) ² :	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme	Extreme	Extreme
Heat Resistant:	Low	Low	Low
Hydrogen Emission:	Threaded insert	Threaded insert	Threaded insert
Terminals:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC

Specifications⁴

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes) ² :	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	109Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm) ³ :	13.42/340.9	13.42/340.9	12.6/317.8
Depth (in/mm) ³ :	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range			
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 80°C (-9.4 to 140°F)	-23 to 80°C (-9.4 to 140°F)	-23 to 80°C (-9.4 to 140°F)
Float Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charge:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

- Notes:
- ¹ Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
- ² Runtimes calculate @ using a 25A DC constant current load.
- ³ Dimensions at top of battery.
- ⁴ See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model	4A	6A	8A	10A
220Vdc	220	195	165	220
3 batteries	508	453	396	520
4 batteries	701	625	546	701
6 batteries	1001	978	853	1001
8 batteries	1487	1338	1165	1487
9 batteries	1696	1509	1322	1696
12A	220	195	165	220
3 batteries	449	402	354	449
4 batteries	612	555	486	612
6 batteries	878	807	709	878
8 batteries	1250	1130	988	1250
9 batteries	1409	1289	1122	1409
14A	220	195	165	220
3 batteries	449	402	354	449
4 batteries	612	555	486	612
6 batteries	878	807	709	878
8 batteries	1250	1130	988	1250
9 batteries	1409	1289	1122	1409
16A	220	195	165	220
3 batteries	449	402	354	449
4 batteries	612	555	486	612
6 batteries	878	807	709	878
8 batteries	1250	1130	988	1250
9 batteries	1409	1289	1122	1409

*Above calculations based on an AC load with a 90 cable plant power factor.
For contact information visit www.alpha.com

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USA Tel: +1 360 647 2360 Fax: +1 360 671 4936	Russia Tel: +7 495 925 9844 Fax: +7 495 916 1343	United Kingdom Tel: +44 1279 501110 Fax: +44 1279 659870	P.R. China Tel: +852 2736 8653 Fax: +852 2199 7988
			Contact USA office

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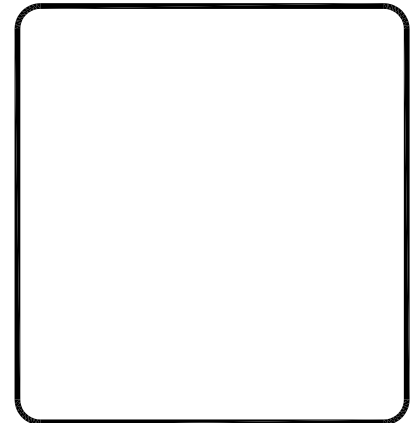
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DETAILS

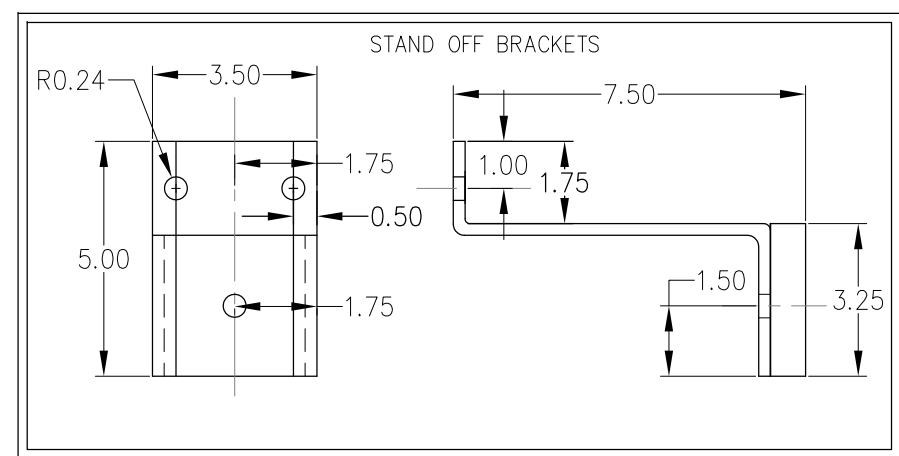
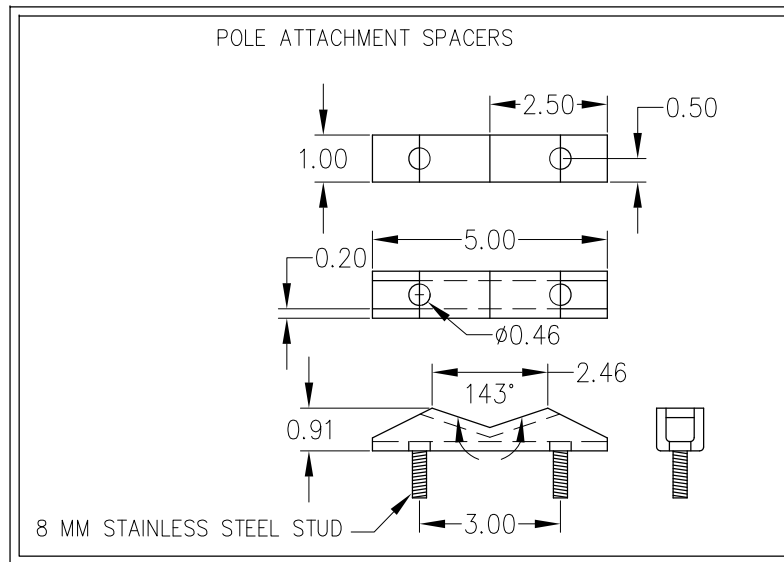
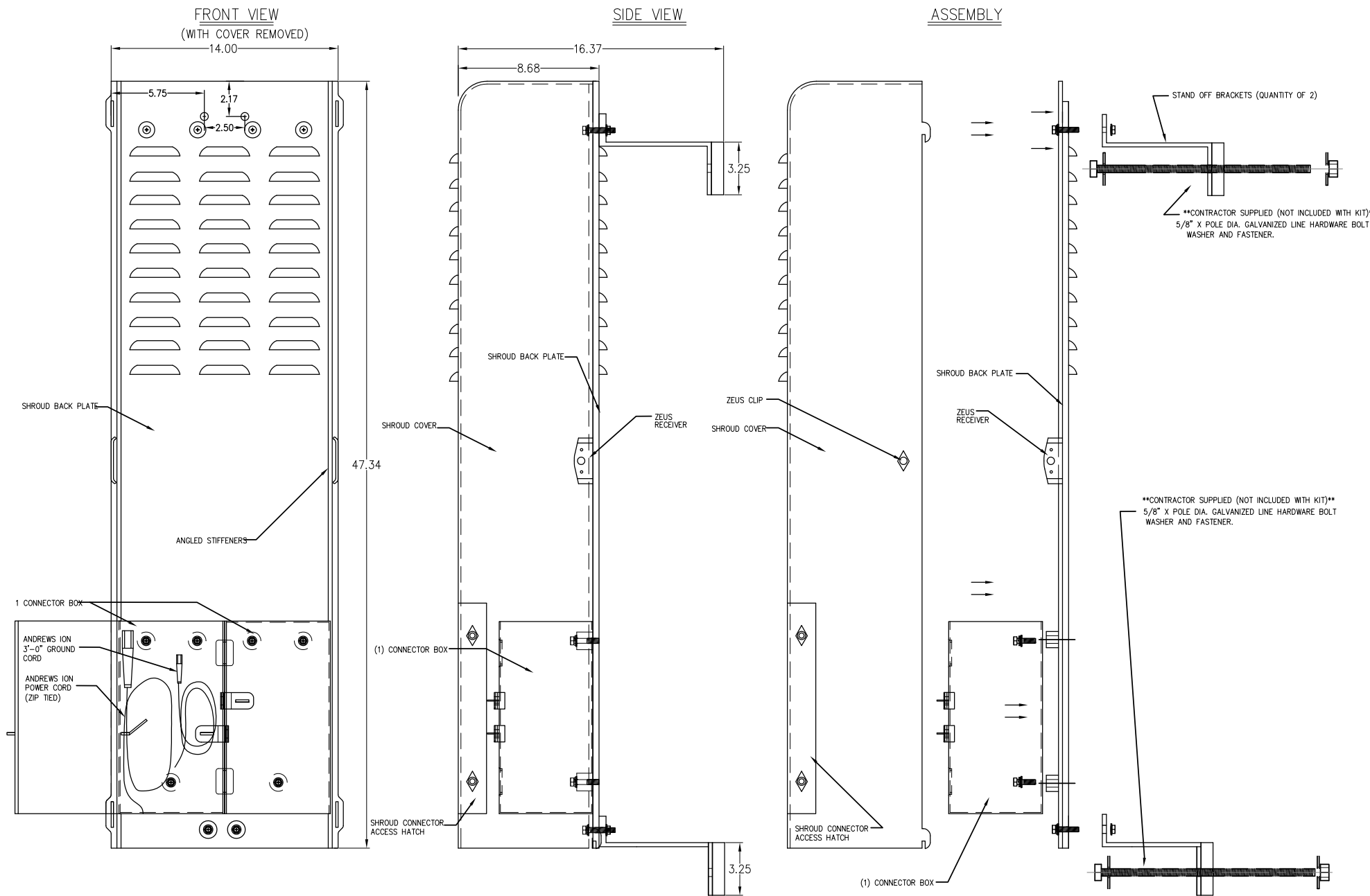


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D-1



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SANTA BARBARA, CA 93108
LAT: 34.4469847°
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SHEET TITLE:

DETAILS

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DRAWN BY:
FC

SHEET NUMBER:

D-2

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Civil Engineer

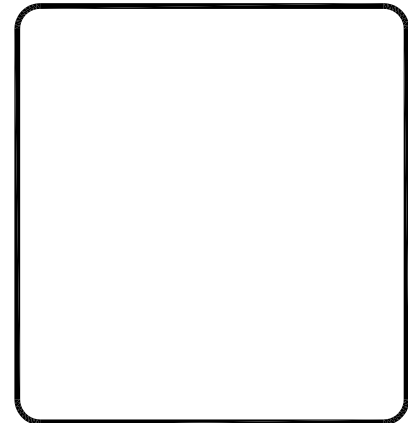


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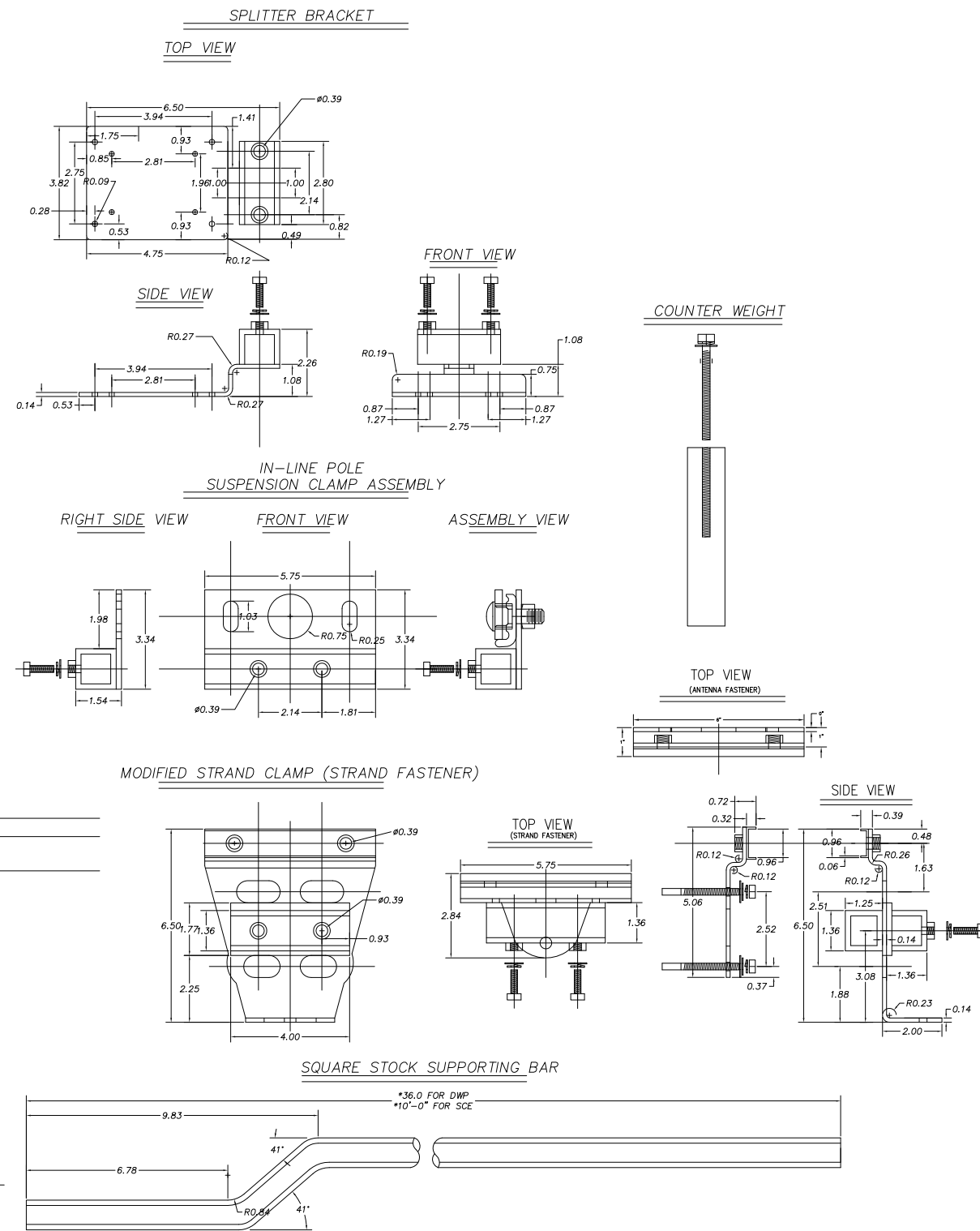
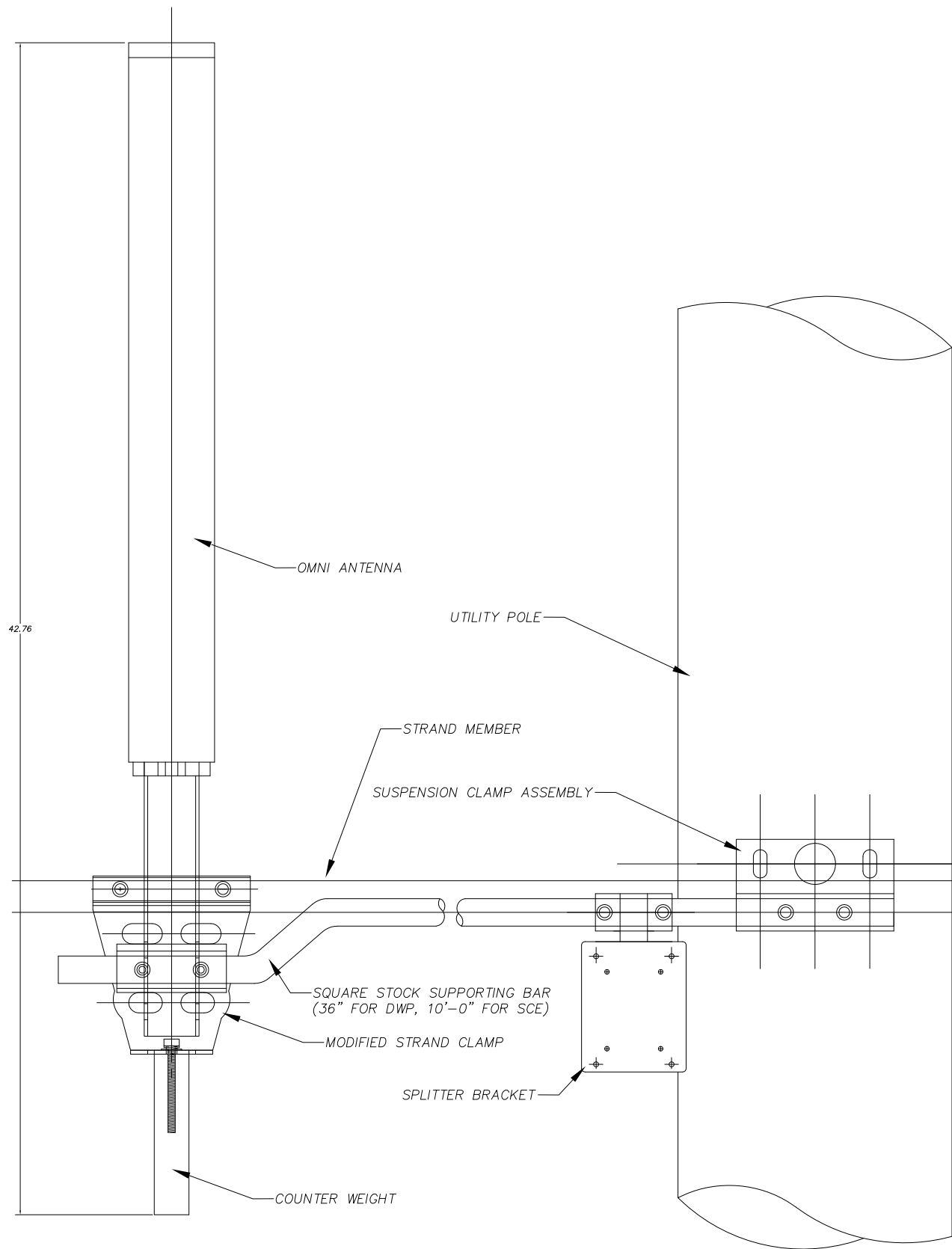
DETAILS

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D-3



GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEDS OR HOUDANS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION, DOES NOT AUTHORIZE THE SUBOWNER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR RULES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THEREOF (16 USC SECTION 1531 ET SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROVED MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND LOCATION OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1' MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DUES/LETTOR OR DAMAGE: IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTION TO THE PERMIT - ISSUING AGENCY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE CONSTRUCTION ACTIVITIES WITH THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "TORNAM CASTLE" OR "TORNAM CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 4. GRADES SHOWN ARE FINISH GRADES. CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION AND FOR THE PROTECTION INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THE PERSON SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL VERIFY INDIVIDUALLY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE AVAILABLE, BY FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND TYPE OF ALL EXISTING UTILITIES AND VERTICALLY PERMIT TO CONSTRUCTION. IF EXISTING LOCATIONS WERE SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND LOCATION OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1' MINIMUM VERTICAL CLEARANCE.
 12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.

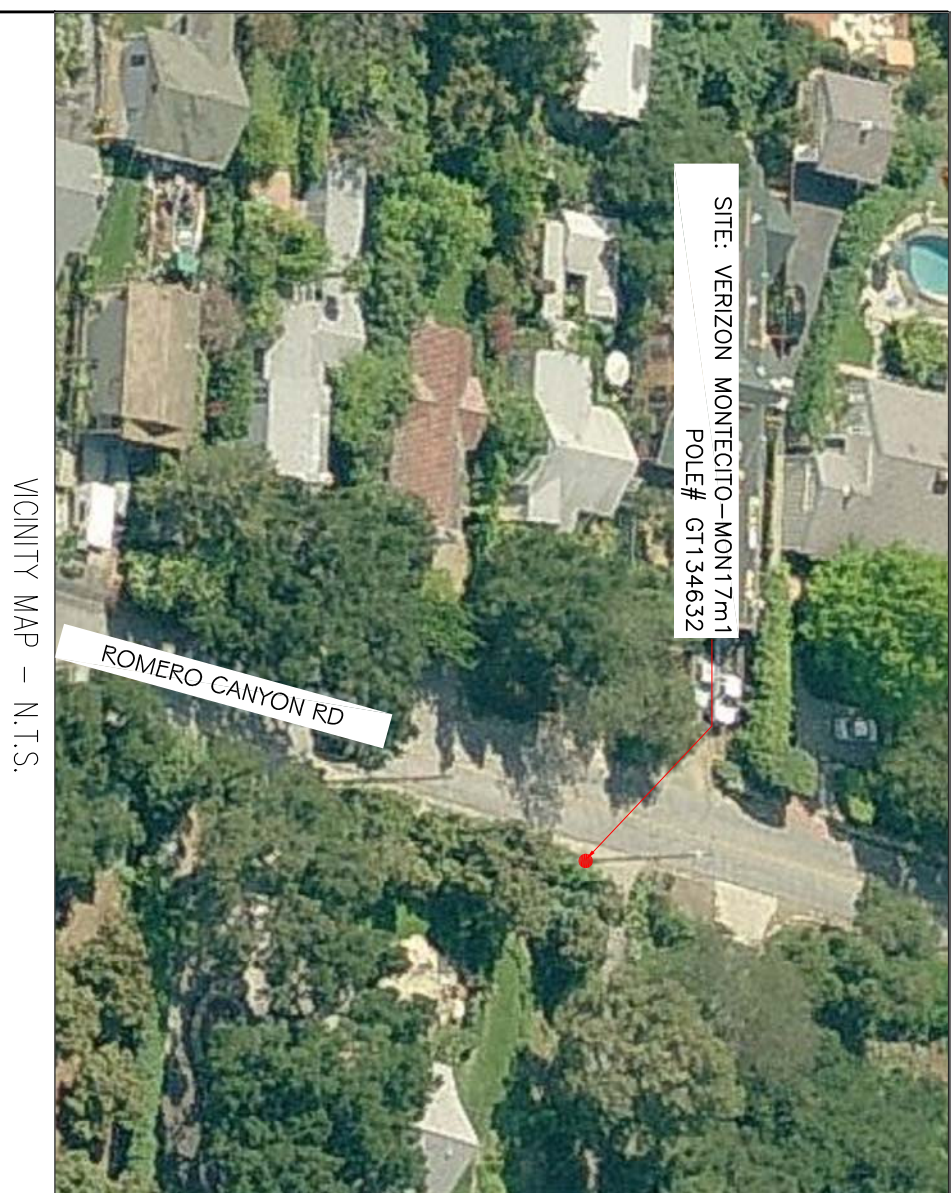


CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

CROWN CASTLE NG WEST, LLC

VERIZON MONTECITO-MON17m1
R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 656 ROMERO CANYON RD)
SANTA BARBARA, CA 93108



VICINITY MAP - N.T.S.

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW.
1. ALL REQUIREMENTS OF THE LOCAL JURISDICTION, LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 3. FOR INLETS LOCATED AT SLOPES ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER GRADING TO THE SWAMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 100" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR BIKES.
 4. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREETS(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 7. EQUIPMENT AND MACHINES FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RAIN-OFF PROLONGED RAINFALL.
 9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPONDED WATERS CREATE A HAZARDOUS CONDITION.
 11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEANING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 15. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (1" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

	FOOTAGE TOTALS
ASPHALT CUT	-
DRY TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
848 SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. EAST SIDE OF ROMERO CANYON RD (ADJACENT TO 656 ROMERO CANYON RD) SANTA BARBARA, CA 93108

APPLICANT:

CROWN CASTLE NG WEST, LLC
 2125 WRIGHT AVE, SUITE #C9
 LA VERNE, CA 91750
 CONTACT: HEDI PAYNE
 PHONE: (949) 310-9493

QWL ENGINEER:

CONNELL DESIGN GROUP, LLC
 26455 RANCHO PARKWAY SOUTH
 LAKE FOREST, CA 92630
 CONTACT: FRANK CARTER
 (949) 310-8233 PHONE
 (949) 753-8833 FAX

REV.	DATE/By:	REVISION DESCRIPTION:
0	02/18/2014 FXC	ISSUED FOR REVIEW
1	03/08/2014 FXC	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

CONNELL DESIGN GROUP, LLC
 CONSULTING CIVIL ENGINEERS
 3463 RANCHO PARETAL SOUTH LAKE FOREST, CA 92630
 (949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE NG WEST, LLC

STAMP:

MON17m1

VERIZON MONTECITO-MON17m1

SITE NAME:

SITE ADDRESS: THOMAS BROS PLACE 997 GRND CT R.O.W. EAST SIDE OF ROMERO CANYON RD (ADJACENT TO 654 ROMERO CANYON RD) SANTA BARBARA, CA 93108
 LAT: 34.4382586
 LONG: -119.6016077

SHEET TITLE:

TITLE SHEET

DRAWING INFO:

DRAWN BY: FC

SHEET NUMBER: T-1

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- *2013 CALIFORNIA BUILDING CODE
- *2013 CALIFORNIA PLUMBING CODE
- *2013 CALIFORNIA ELECTRICAL CODE

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

PROJECT DESCRIPTION

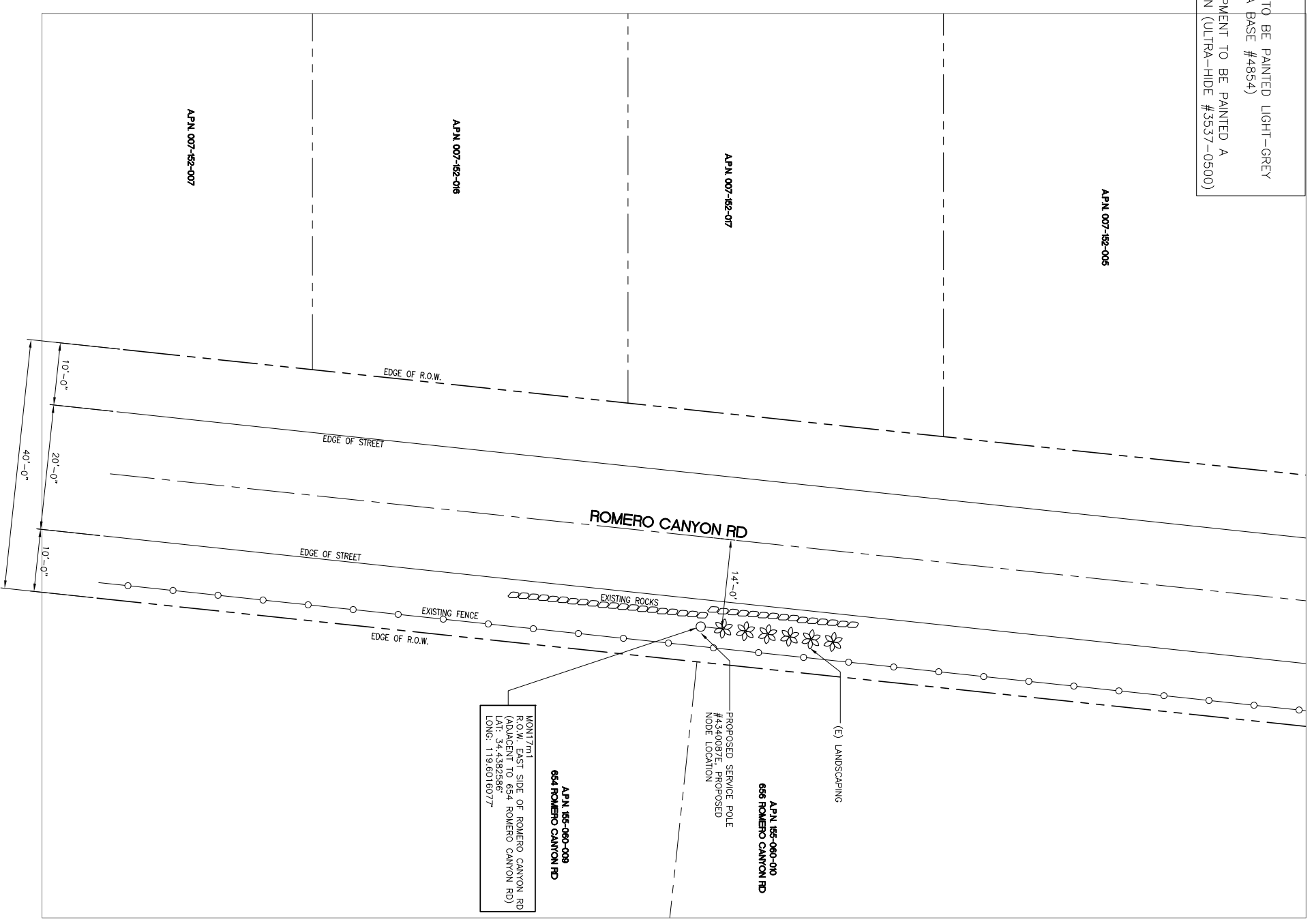
PROJECT CONSISTS OF INSTALLATION OF:

1. (2) OMM DIRECTIONAL ANTENNA ON EXISTING UTILITY POLE
2. EQUIPMENT SHROUD AND BDU ON EXISTING POLE

SHEET INDEX:

TITLE SHEET	PROPOSED ELEVATIONS	DETAILS
-1-1 - SHEET 1 OF 6	A-1 - SHEET 2 OF 6	D-1 - SHEET 4 OF 6
-1-2 - SHEET 2 OF 6	A-2 - SHEET 3 OF 6	D-2 - SHEET 5 OF 6
-1-3 - SHEET 3 OF 6	A-3 - SHEET 4 OF 6	D-3 - SHEET 6 OF 6

NOTE:
 1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



APN 155-080-009
 654 ROMERO CANYON RD
 MON17m1
 ROW ADJACENT TO 654 ROMERO CANYON RD
 LAT: 34.4392586°
 LONG: 119.6016077°

APN 155-080-010
 656 ROMERO CANYON RD

PROPOSED SERVICE POLE
 #434087E, PROPOSED
 NODE LOCATION

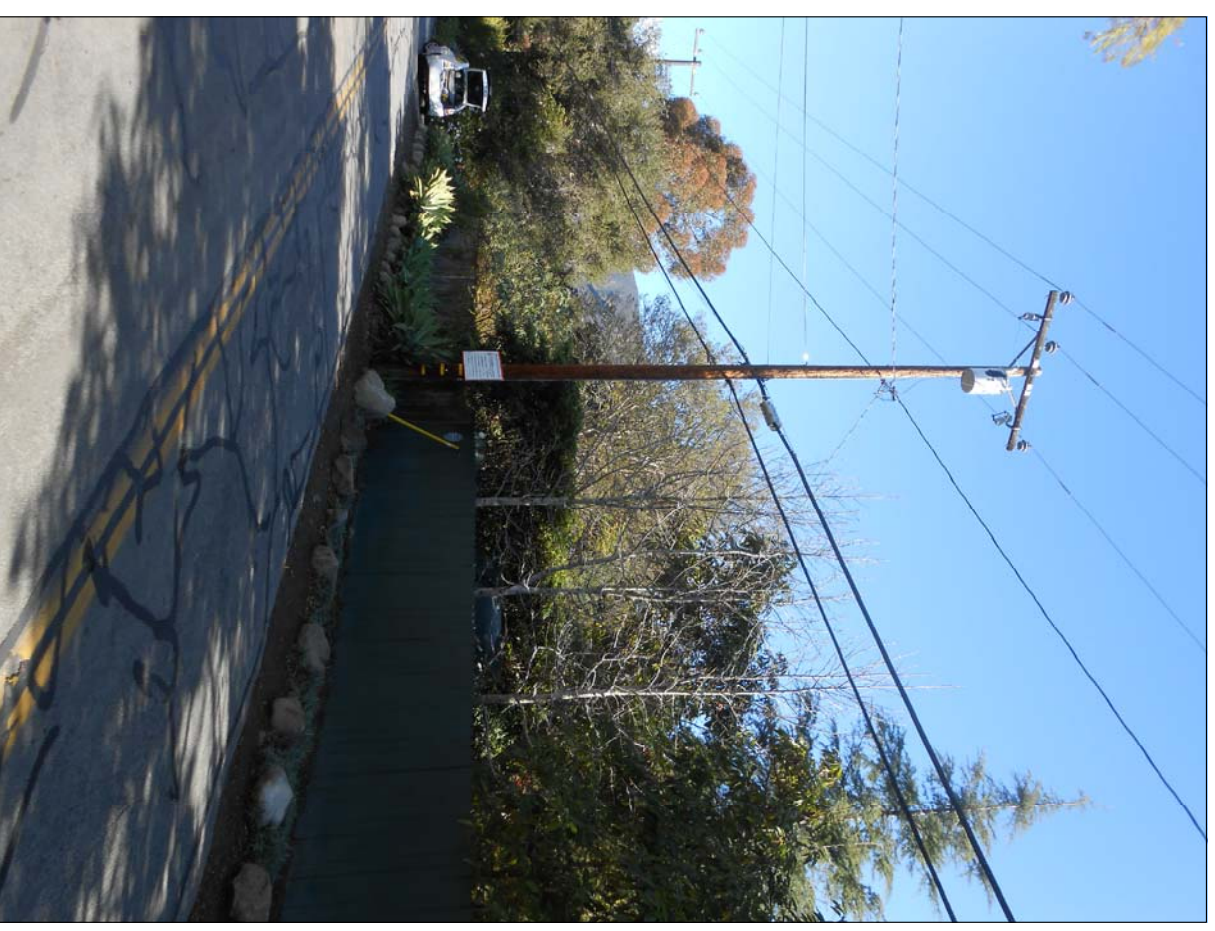
(E) LANDSCAPING

SITE PLAN

SCALE: 1"=10'-0"
 0 5 10'

RISER PROFILE

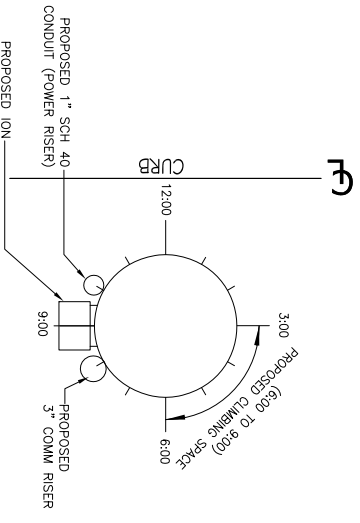
SCALE: N.T.S.



EXISTING PHOTO

SCALE: N.T.S.

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.
 1-3" CROWN CASTLE RISER @ 8:00
 1-3" POWER RISER @ 10:00



SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

DRAWN BY: FC

SHEET NUMBER:

A-1

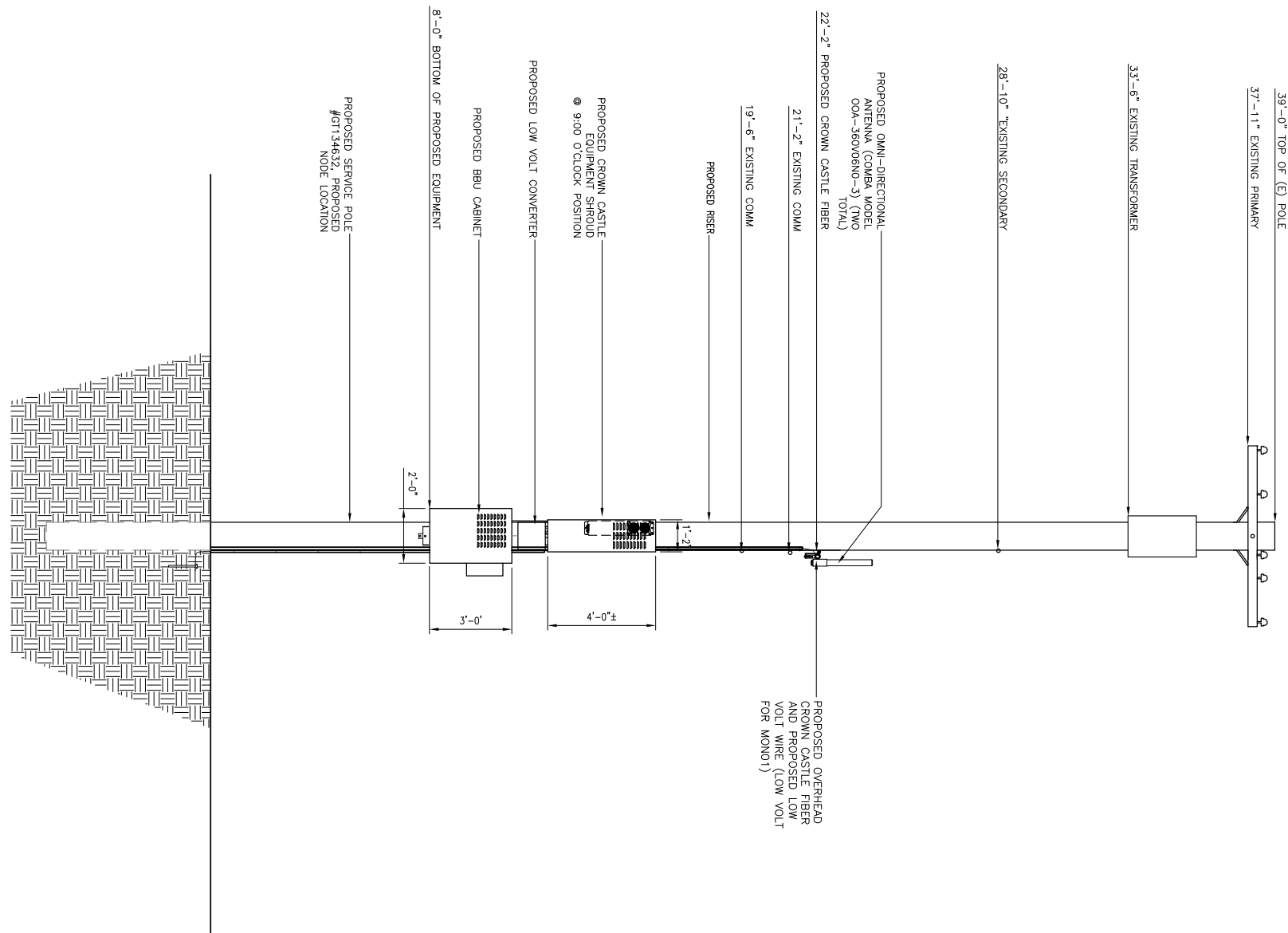
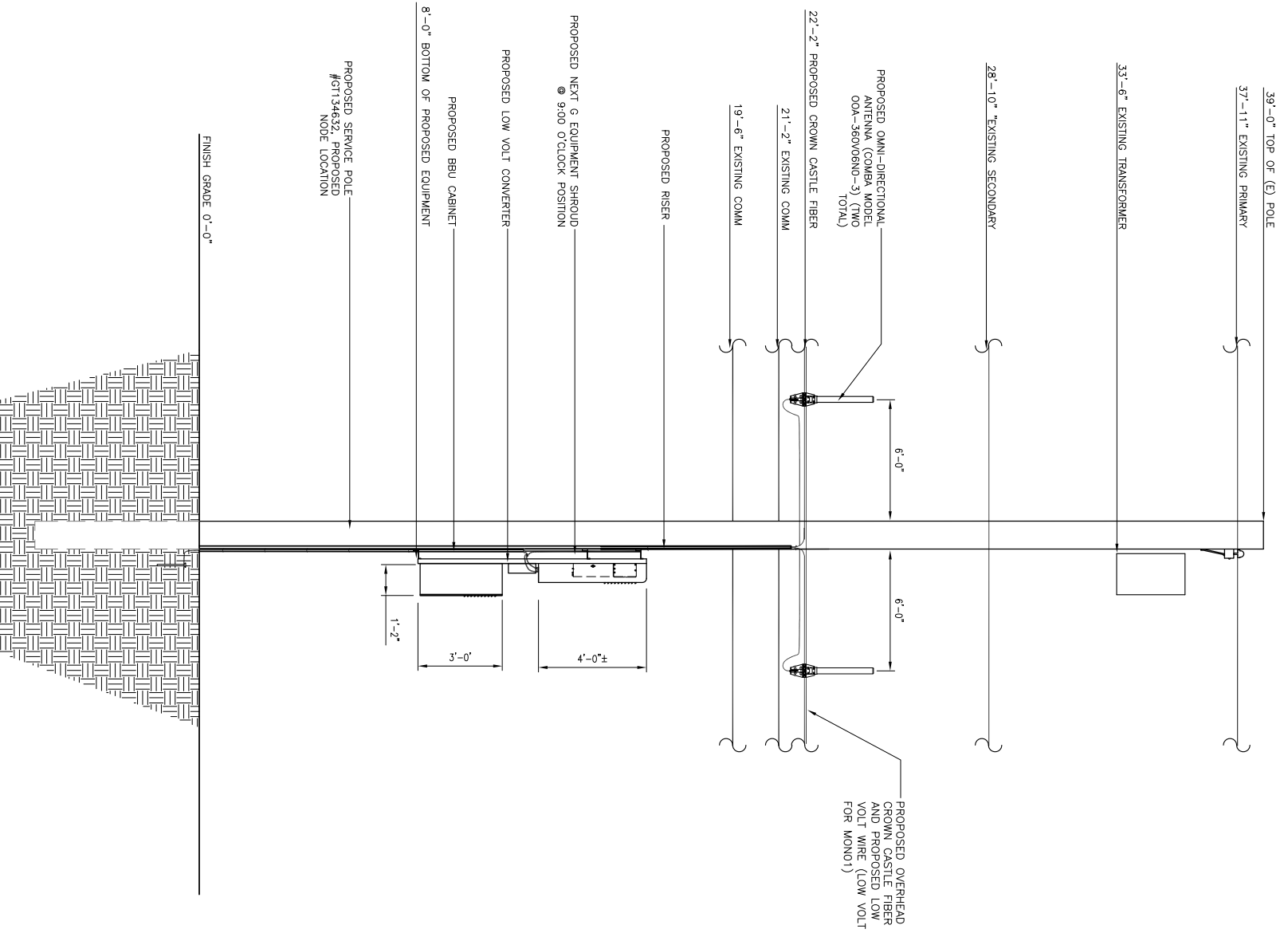
REV.	DATE/By:	REVISION DESCRIPTION:
0	02/18/2014 FC	ISSUED FOR REVIEW
1	03/08/2014 FC	ISSUED FOR FINAL

ENGINEER/CONSULTANT:
 Civil Engineer
CDEG
CONNELL DESIGN GROUP, LLC
 CONSULTING CIVIL ENGINEERS
 3465 RANCHO PLACENTA SOUTH LAKE FOREST, CA 92650
 (949) 234-8800 OFFICE • (949) 234-8833 FAX

CLIENT:
CROWN CASTLE
 NC, WEST, LLC

STAMP:
 SITE INFO:
 SITE NAME: **MON17m1**
 VERIZON MONTECITO-MON17m1
 SITE ADDRESS: THOMAS BROS PACE 997 GRND C1
 R.O.W. EAST SIDE OF ROMERO CANYON RD
 (ADJACENT TO 654 ROMERO CANYON RD)
 SANTA BARBARA, CA 93108
 LAT: 34.4392586°
 LONG: -119.6016077°
 SHEET TITLE:

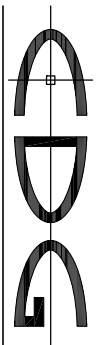
- NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



REV.	DATE/By:	REVISION DESCRIPTION:
0	FCX 02/18/2014	ISSUED FOR REVIEW
1	FCX 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



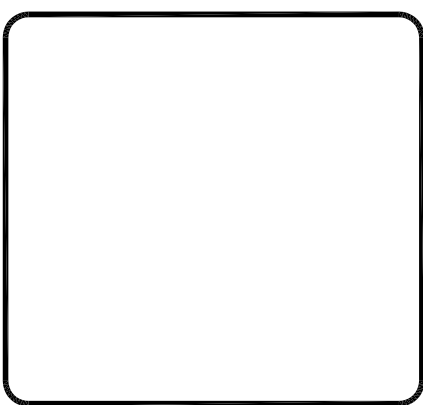
CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
3463 BANCRO PARKWAY SOUTH LAKE FOREST, CA 92650
(949) 254-8800 OFFICE • (949) 254-8833 FAX

CLIENT:



CROWN CASTLE
N.G. WEST, LLC

STAMP:



SITE INFO:

SITE NAME:
MON17m1
VERIZON MONTECITO-MON17m1

SITE ADDRESS: THOMAS BROS PACE 997 GRND C1
R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 654 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.4382586
LONG: -119.6016077

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

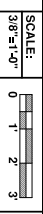
A-2

PROPOSED ELEVATION LOOKING EAST



1

PROPOSED ELEVATION LOOKING NORTH

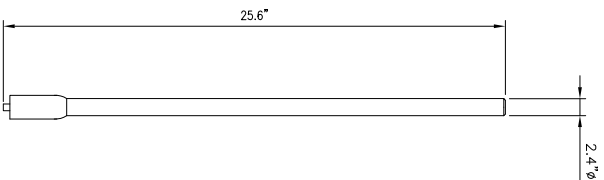


2

O0A-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 40/6.0dBi

Technical Specifications

Electrical		
Frequency Range	MHz	696-960 1710-2170
Polarization		Vertical
Gain	dBi	4.0±1 6.0±1
Horizontal Beamwidth	deg	360
Vertical Beamwidth	deg	22-53 20-26
Electric DownTilt-Fixed	deg	0
VSWR		1.8
Maximum Power	W	200
Impedance		50
Lightning Protection		Direct Ground
Mechanical		
Dimensions: HxDiA	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature	%	-55 to +70
Operational Humidity		95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions:HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S.

1

Electrical				
Power Supply		115 or 220		
Mainis power, Vac		<750 @ normal operation		
Power consumption, Watts		110 max.		
700 MHz SISO/MIMO				
Frequency range, MHz		698 to 716/775 to 717		
Output power per carrier*, dBm		Uplink 78 to 157		
Downlink 89 to 94				
Number of Carriers	1	2	4	8
LTE	43	40**	37	34
850 MHz				
Output power per carrier*, dBm		Uplink 824 to 819		
Downlink 869 to 814				
Number of Carriers	1	2	4	8
LTE	43	40**	37	34



1900 MHz				
Frequency range, MHz		Uplink 1850 to 1915		
Downlink 1920 to 1995				
Output power per carrier*, dBm		Uplink 1850 to 1915		
Downlink 1920 to 1995				
Number of Carriers	1	2	4	8
GSMA	43	40	37	34
CDMA	43	40**	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

20W for Cell, PCS bands and 700MHz MIMO

Output power per carrier*, dBm	Uplink 824 to 819
Downlink 869 to 814	
Number of Carriers	1 2 4 8
Analog	43 40 37 34
GSMA	43 40 37 34
CDMA	43 40 37 34
LTE	43 40** 37 34
UMTS	42 39 36 33

Mechanical****

Height, width, depth, mm (in)	817 x 245 x 218
(32.2 x 9.6 x 8.6)	
Weight, kg (lb)	40 (88.2)

AlphaCell General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty:	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (min):	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme Low	Extreme Low	Extreme Low
Heat Resistant:	Low	Low	Low
Hydrogen Emission:	Threaded insert	Threaded insert	Threaded insert
Terminals:	14" - 20 UNC	14" - 20 UNC	14" - 20 UNC

Specifications¹

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	800	800
Short Circuit Current (A):	2800	2500	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance @0Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs. (to 1.75VPC)	109Ah	100Ah	86
Nominal Capacity at 20hrs. (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (blk):	73.93, 2	67.90, 5	53.28, 6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.63/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Discharge:	-23 to 80°C (-9.4 to 140°F)	-23 to 80°C (-9.4 to 140°F)	-23 to 80°C (-9.4 to 140°F)
Charge (with temp compensation):	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Float Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% offset charge voltage (recommended for best results. Max. allowed = 4% P-P)		

Notes:
 1. Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
 2. Runtime calculated using a 25A DC constant current load.
 3. Runtime at top of battery.
 4. See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model:	220	195	165	13A
3.0dbrms	528	453	366	320
4.0dbrms	701	625	540	444
6.0dbrms	1001	875	693	701
8.0dbrms	1487	1338	1085	859
9.0dbrms	1938	1750	1422	1081
12A	195	165	134	104
3.0dbrms	332	270	220	185
4.0dbrms	460	387	316	261
6.0dbrms	670	561	464	387
8.0dbrms	958	800	664	548
9.0dbrms	1265	1065	880	730
15A	195	165	134	104
3.0dbrms	528	453	366	320
4.0dbrms	701	625	540	444
6.0dbrms	1001	875	693	701
8.0dbrms	1487	1338	1085	859
9.0dbrms	1938	1750	1422	1081
18A	195	165	134	104
3.0dbrms	332	270	220	185
4.0dbrms	460	387	316	261
6.0dbrms	670	561	464	387
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6.0dbrms	670	561	464	387
8.0dbrms	958	800	664	548
9.0dbrms	1265	1065	880	730

* Above calculations based on an AC load with a 50 cycle float power factor.

North America	Canada	USA
Europe, Middle East & Africa	Germany	UK
Asia Pacific	China	India
Latin & South America	Brazil	Mexico



REV.	DATE/By:	REVISION DESCRIPTION:
0	02/18/2014	ISSUED FOR RENEW
1	03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:
 Civil Engineer
CONNELL DESIGN GROUP, LLC
 CONSULTING CIVIL ENGINEERS
 3645 MANCRO PARKWAY SOUTH LAKE FOREST, CA 92650
 (949) 253-8800 OFFICE - (949) 253-8833 FAX

CLIENT:
CROWN CASTLE
 NC, WEST, LLC

SITE NAME:
MON17m1
 VERIZON MONTECITO-MON17m1

SITE ADDRESS: THOMAS BROS PACE 997 GMD CT
 R.O.W. EAST SIDE OF ROMERO CANYON RD
 (ADJACENT TO 654 ROMERO CANYON RD)
 SANTA BARBARA, CA 93108
 LAT: 34.4392586°
 LONG: -119.6016077°

SHEET TITLE:
DETAILS

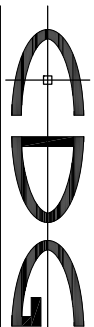
DRAWN BY:
 FC

SHEET NUMBER:
D-1

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FCX 02/18/2014	ISSUED FOR REVIEW
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ENGINEER/CONSULTANT:

Civil Engineer

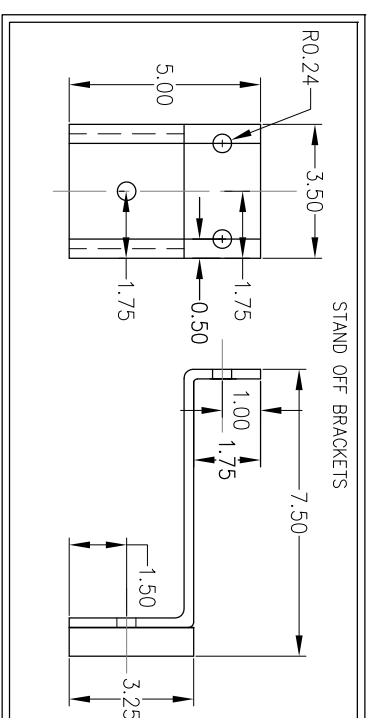
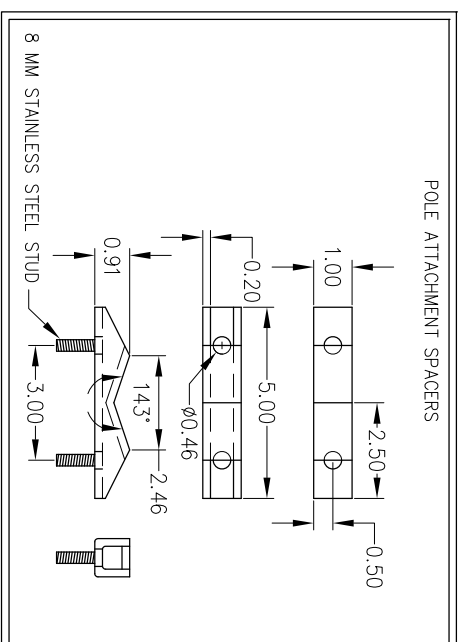
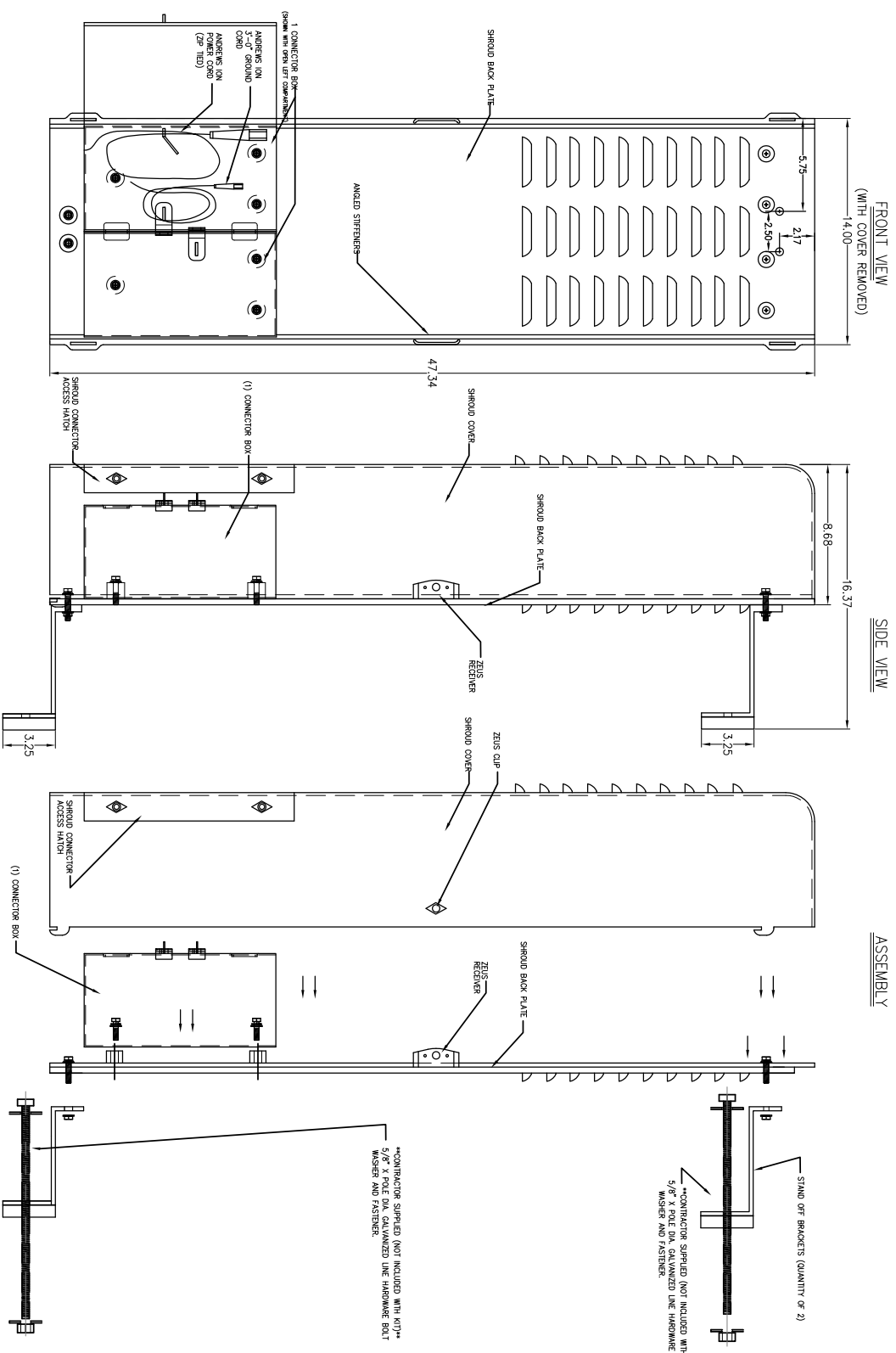
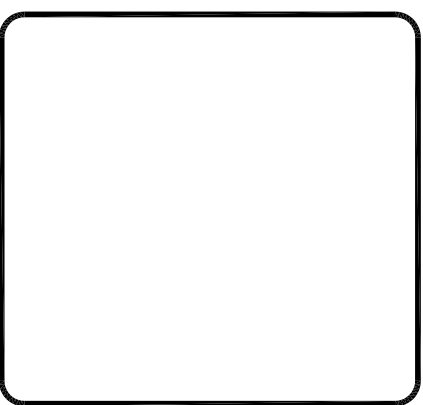


CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
3645 BANCRO PARKWAY SOUTH LAKE FOREST, CA 92650
(949) 254-8800 OFFICE - (949) 254-8833 FAX

CLIENT:



STAMP:



DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-2

SHEET TITLE:

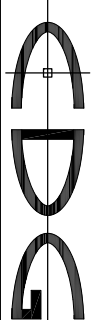
SITE NAME:
MON17m1
VERIZON MONTECITO-MON17m1
SITE ADDRESS: THOMAS BROS PACE 997 GRND C1
R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 654 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.4382586°
LONG: -119.6016077°

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ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

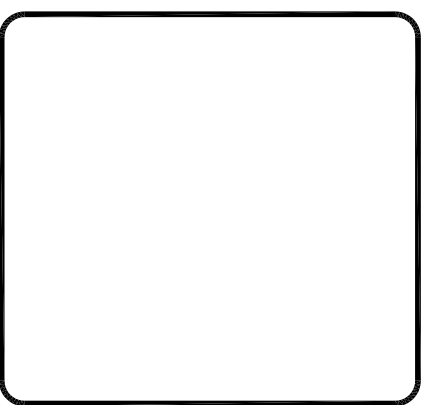
CONSULTING CIVIL ENGINEERS
3455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92509
(949) 23-5800 OFFICE - (949) 23-5833 FAX

CLIENT:



NG WEST, LLC

STAMP:



SITE NAME:
MON17m1
VERIZON MONTECITO-MON17m1

SITE ADDRESS: THOMAS BROS PACE 997 GRND C1
R.O.W. EAST SIDE OF ROMERO CANYON RD
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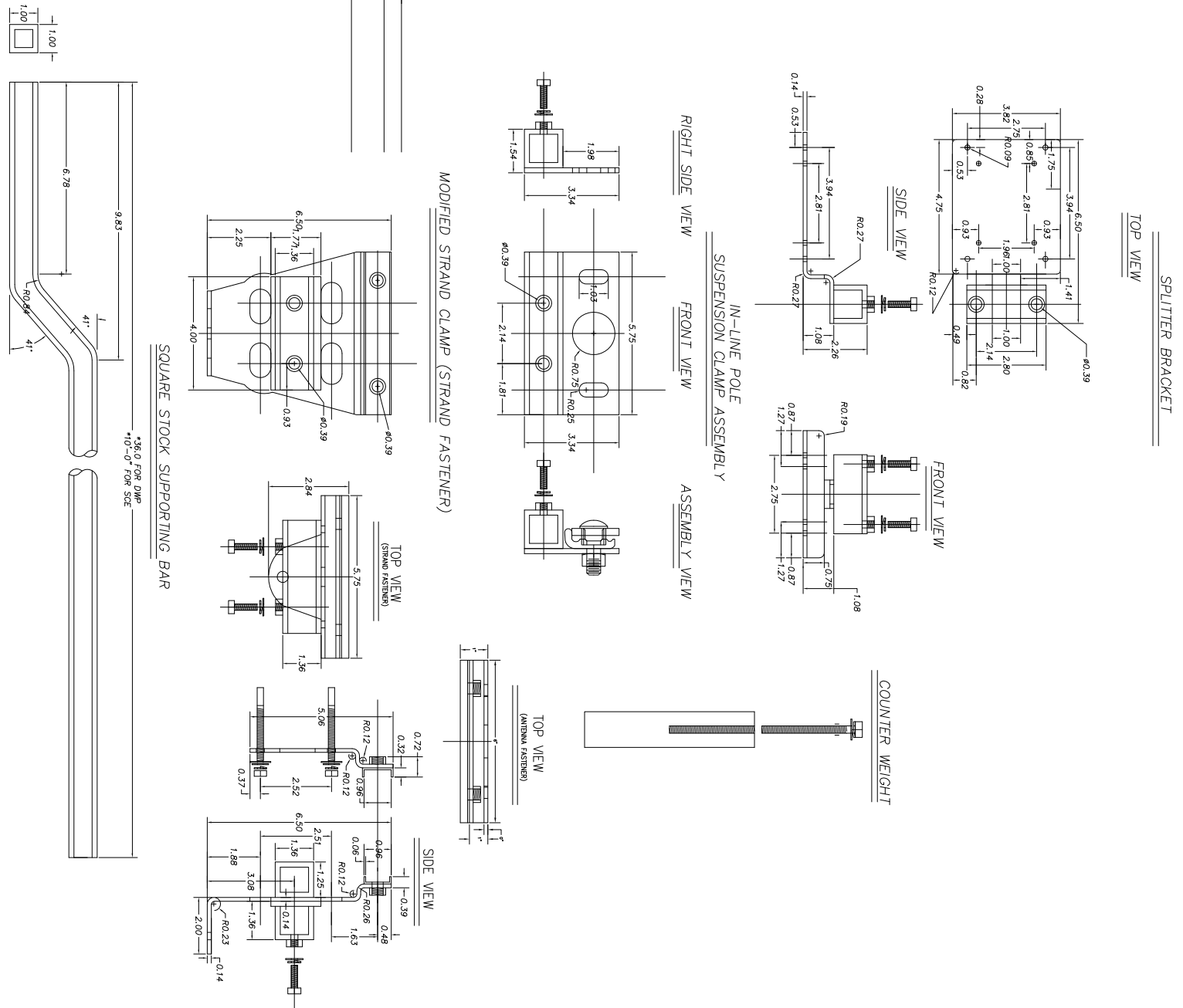
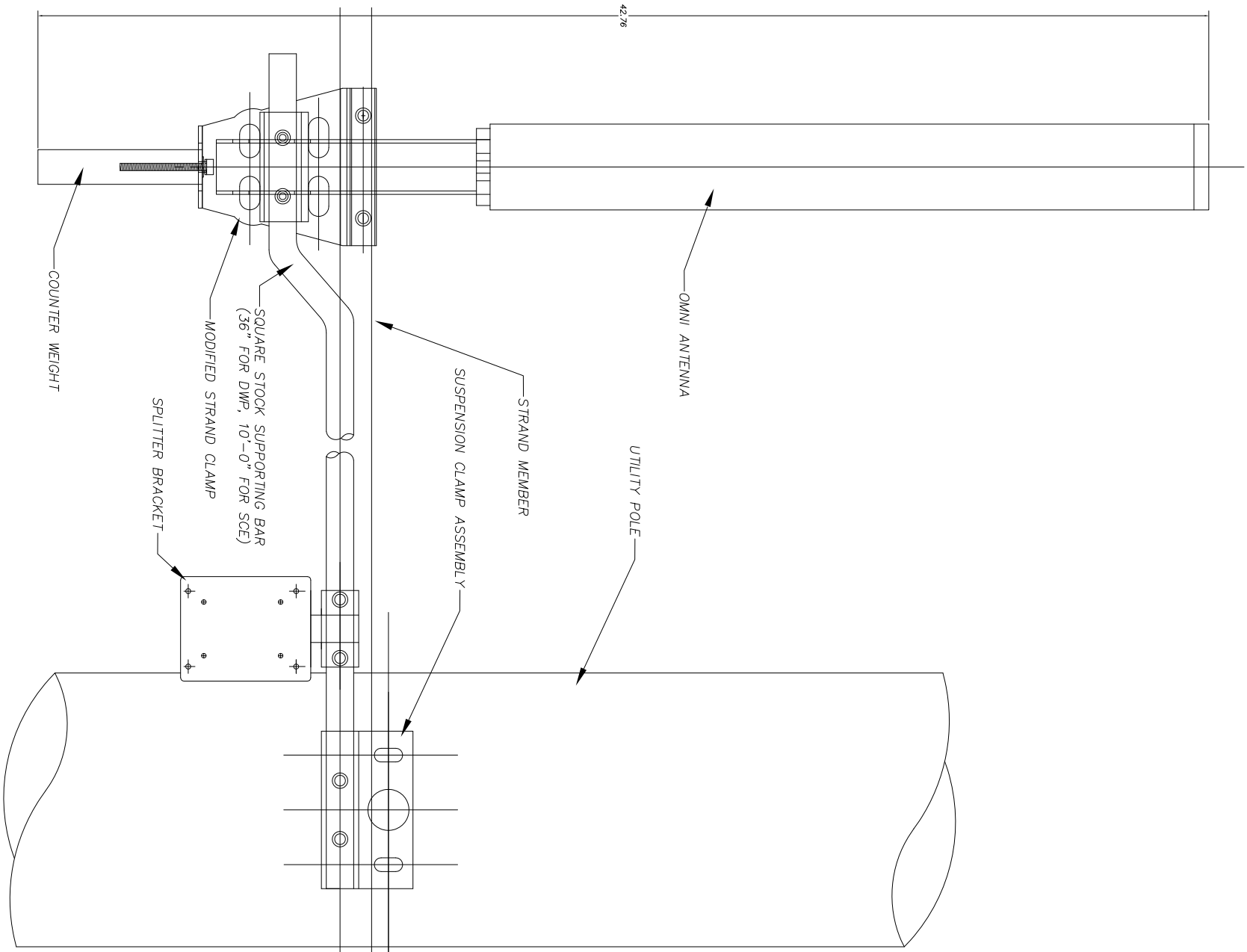
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3



GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT PEDESTAL W/ BBU, ION AND ELECTRICAL METER AT BASE OF POLE
3. NEW SHROUD ON POLE WITH NEW ION

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 10
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 10
TOPOGRAPHIC SURVEY	C-2 - SHEET 3 OF 10
SITE PLAN	A-1 - SHEET 4 OF 10
ENLARGED SITE PLAN	A-2 - SHEET 5 OF 10
PROPOSED ELEVATIONS	A-3 - SHEET 6 OF 10
GRADING PLAN	A-4 - SHEET 7 OF 10
DETAILS	D-1 - SHEET 8 OF 10
DETAILS	D-2 - SHEET 9 OF 10
DETAILS	D-3 - SHEET 10 OF 10

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON18 R.O.W. SOUTH SIDE OF BELLA VISTA DR (ADJACENT TO 2299 BELLA VISTA DR) SANTA BARBARA, CA 93108



SYMBOLS, LINETYPES AND HATCH PATTERNS			
	GROUND BUS BAR		LIGHT POLE
	MECH. GRND. CONN.		FOUNDATION
	CADWELD		SPOT ELEV.
	ELECTRIC BOX		SET POINT
	TELEPHONE BOX		REVISION
	EXISTING SERVICE POLE		ELEVATION REF.
	SIDEWALK FLAG		SECTION REF.
	EX. MANHOLE		PROP./LEASE LINE
			MATCH LINE
			WORK POINT
			TELE. CONDUIT
			CENTERLINE
			ELECT. CONDUIT
			COAXIAL CABLE
			MYERS PEDESTAL
			VAULT STANDARD 2'x3'
			STEEL POLE

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 - FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 - FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
 - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 - ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" x 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF BELLA VISTA (ADJACENT TO 2299 BELLA VISTA) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 01/15/2013	ISSUED FOR REVIEW
1	SA 03/18/2013	ISSUED FOR APPROVAL
2	SA 08/05/2013	ISSUED FOR APPROVAL
3	FC 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON18
VERIZON MONTECITO-MON18

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.44805
LONG: -119.59984

SHEET TITLE:

TITLE SHEET

DRAWING INFO:

DRAWN BY: FC

SHEET NUMBER:

T-1

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/30/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PKWY. SOUTH
LAKE FOREST, CA 92630-8326
(949) 753-8807 OFFICE - (949) 753-8833 FAX

SITE BUILDER:




CROWN CASTLE
NG WEST, INC.

SURVEYOR:



BERT HAZE
AND ASSOCIATES, INC.
LAND SURVEYING & MAPPING
3188 AIRWAY AVENUE, SUITE K1
COSTA MESA, CALIFORNIA 92626
714 557-1567 OFFICE
714 557-1568 FAX
JN. 706.231

STAMP:



PROFESSIONAL LAND SURVEYOR
BERT HAZE
No. 7211
Exp. 3-31-14
STATE OF CALIFORNIA

SITE INFO:

SITE NAME:
MON18
VERIZON MONTECITO-MON18

SITE ADDRESS:
R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME: MON18	DRAWN BY: MDL	DATE: 07/30/13
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SHEET NUMBER:

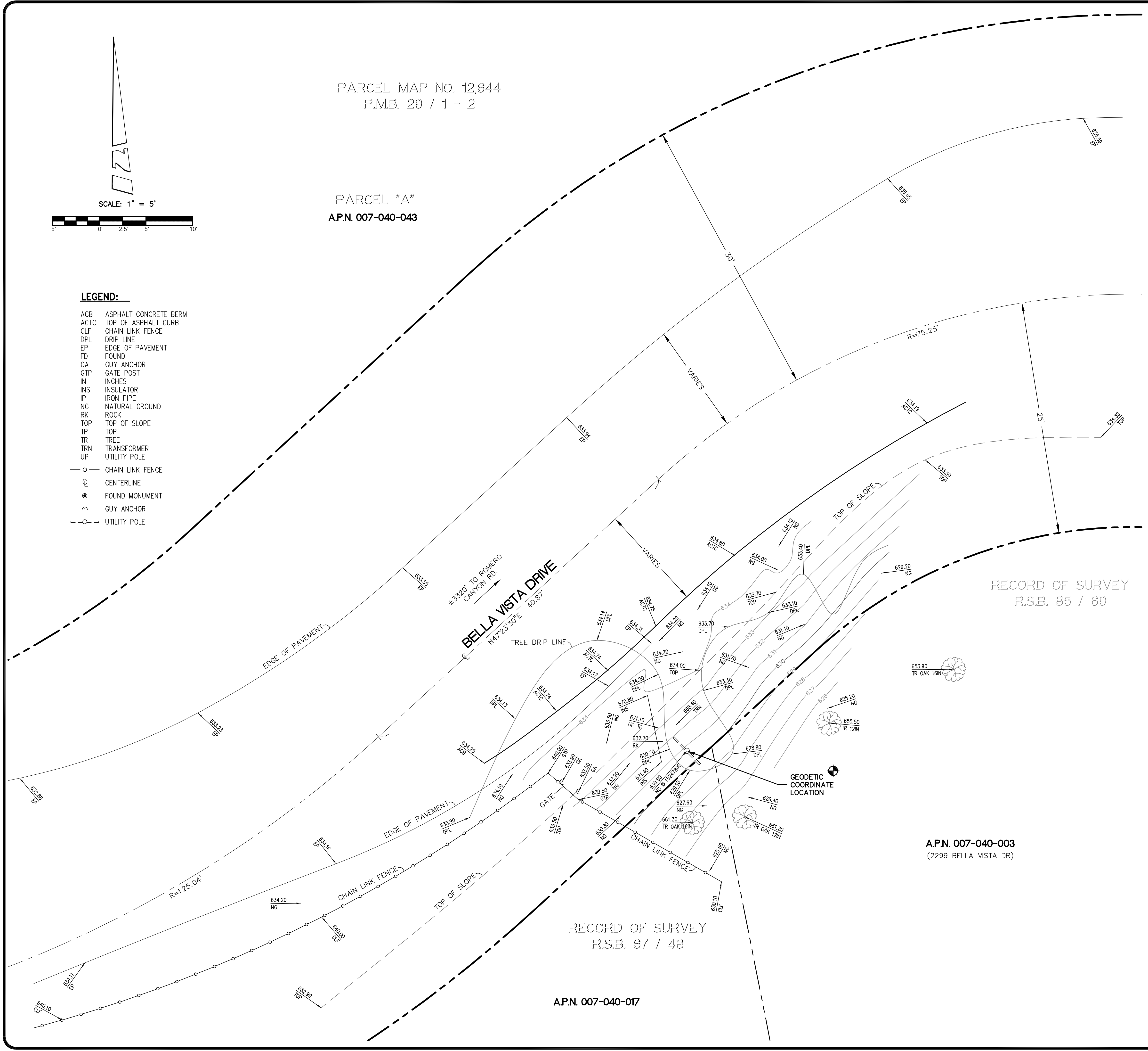
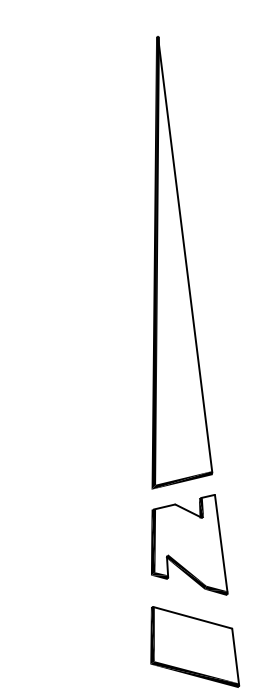
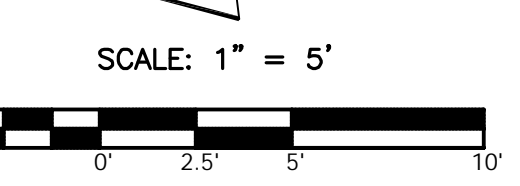
1 OF 1	C-1
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PARCEL MAP NO. 12,644
P.M.B. 29 / 1 - 2

PARCEL "A"
A.P.N. 007-040-043

LEGEND:

- ACB ASPHALT CONCRETE BERM
- ACTC TOP OF ASPHALT CURB
- CLF CHAIN LINK FENCE
- DPL DRIP LINE
- EP EDGE OF PAVEMENT
- FD FOUND
- GA GUY ANCHOR
- GTP GATE POST
- IN INCHES
- INS INSULATOR
- IP IRON PIPE
- NG NATURAL GROUND
- RK ROCK
- TOP TOP OF SLOPE
- TP TOP
- TR TREE
- TRN TRANSFORMER
- UP UTILITY POLE
- CHAIN LINK FENCE
- ⊕ CENTERLINE
- FOUND MONUMENT
- ⋈ GUY ANCHOR
- ⊖ UTILITY POLE



COORDINATES: 

LATITUDE 34°26'52.94" N
LONGITUDE 119°35'59.17" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE CENTERLINE OF BELLA VISTA DRIVE BEING NORTH 62°08'00" EAST PER FOUND MONUMENTS ON RECORD OF SURVEY, R.S.B. 85/69, RECORDS OF SANTA BARBARA COUNTY. (NOT SHOWN HEREON)

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 500"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 500" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 502.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 18, 2013

SURVEYORS NOTE:

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.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

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ENGINEER/CONSULTANT:

Civil Engineer



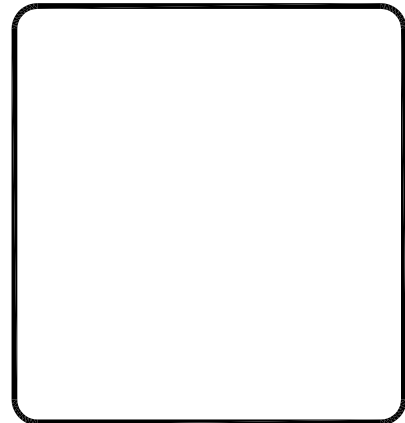
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON18
VERIZON MONTECITO-MON18
SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.44805
LONG: -119.59984

SHEET TITLE:

SITE PLAN

DRAWING INFO:

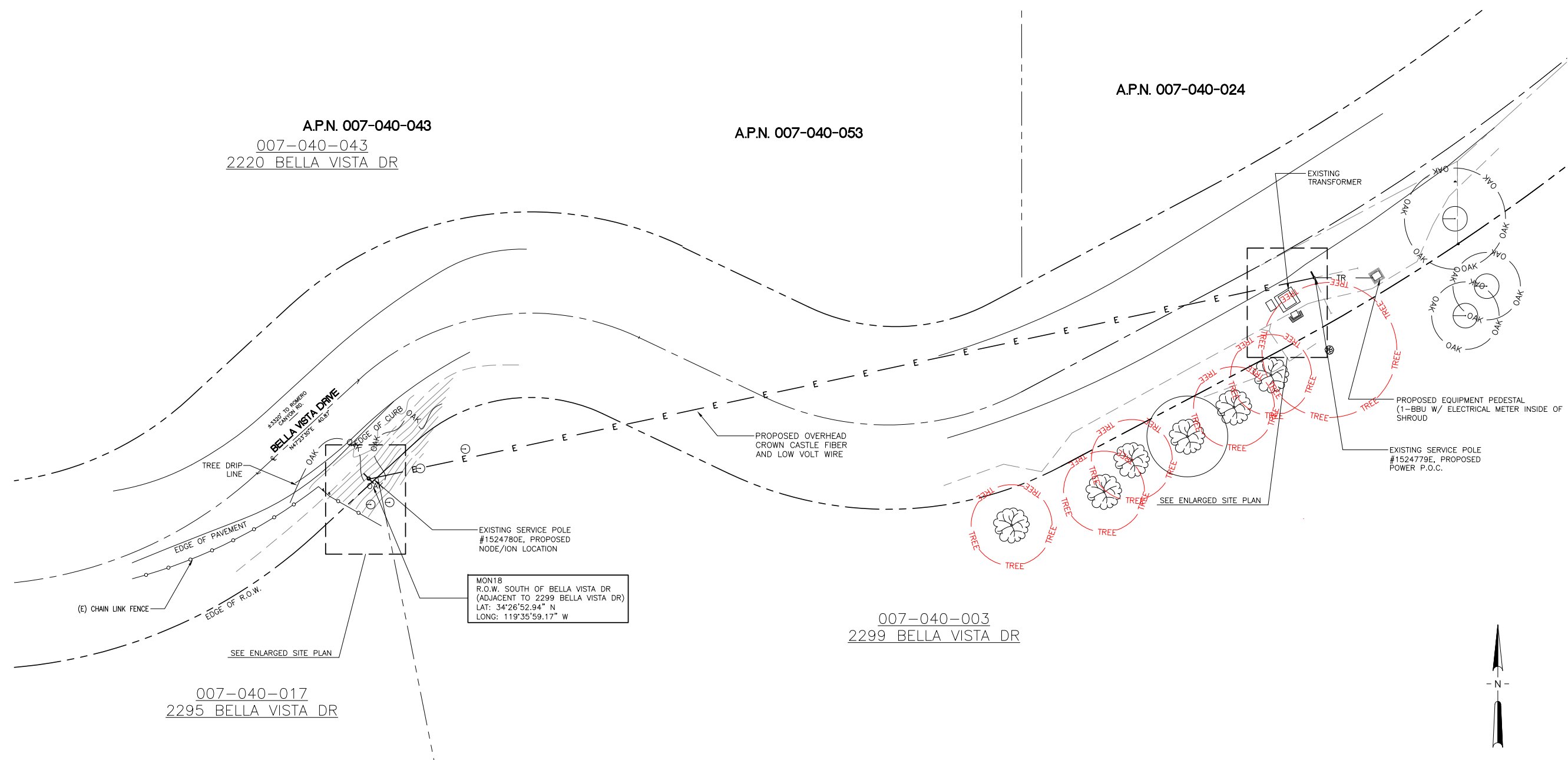
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FC

SHEET NUMBER:

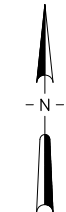
A-1

LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊖

NOTE:
TRENCH TO BE HAND DUG.



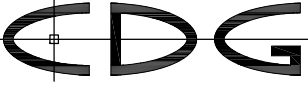
MON18
R.O.W. SOUTH OF BELLA VISTA DR
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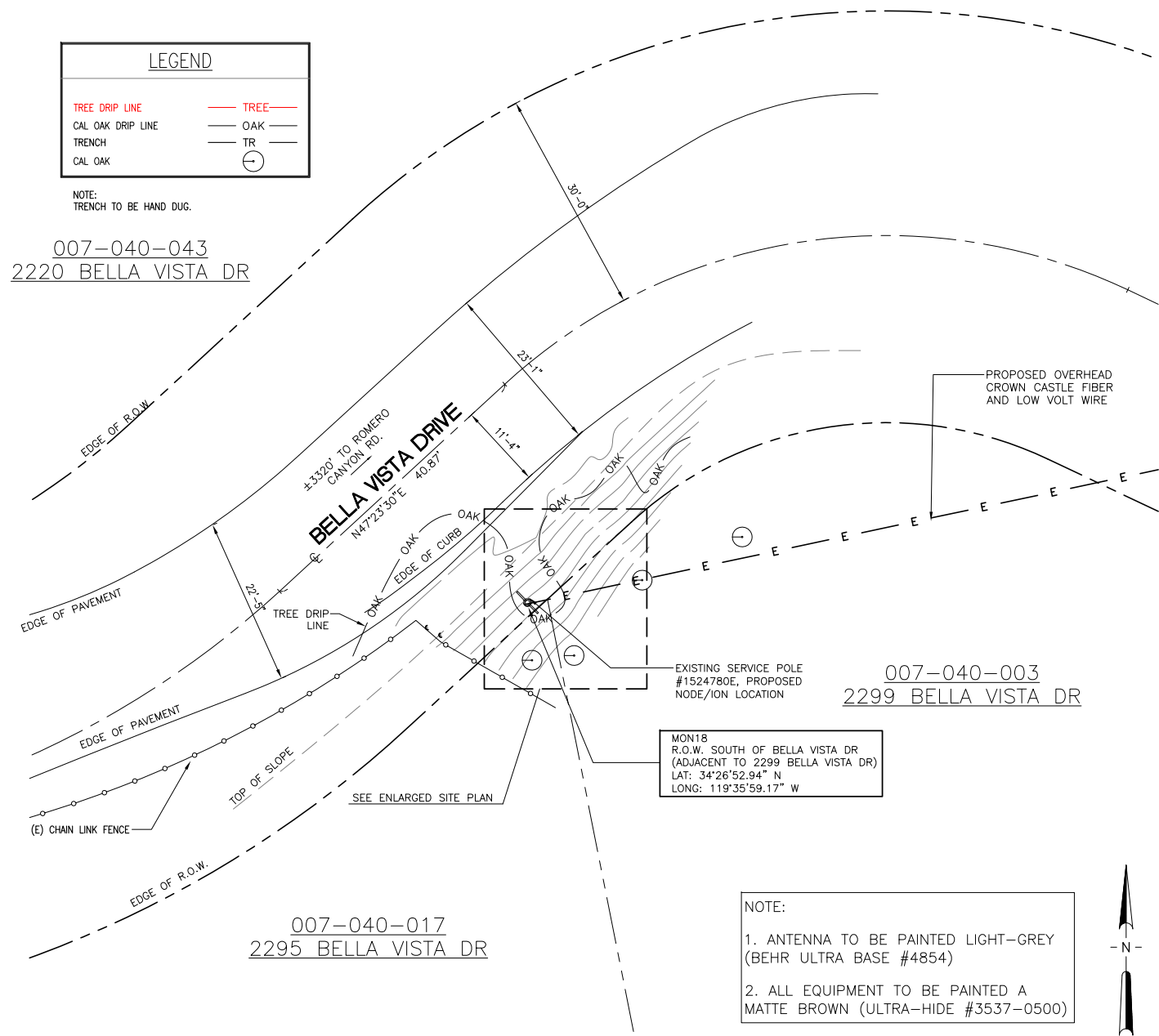
CROWN CASTLE
NG WEST, INC.

STAMP:

LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊖

NOTE:
TRENCH TO BE HAND DUG.

007-040-043
2220 BELLA VISTA DR



NODE POLE



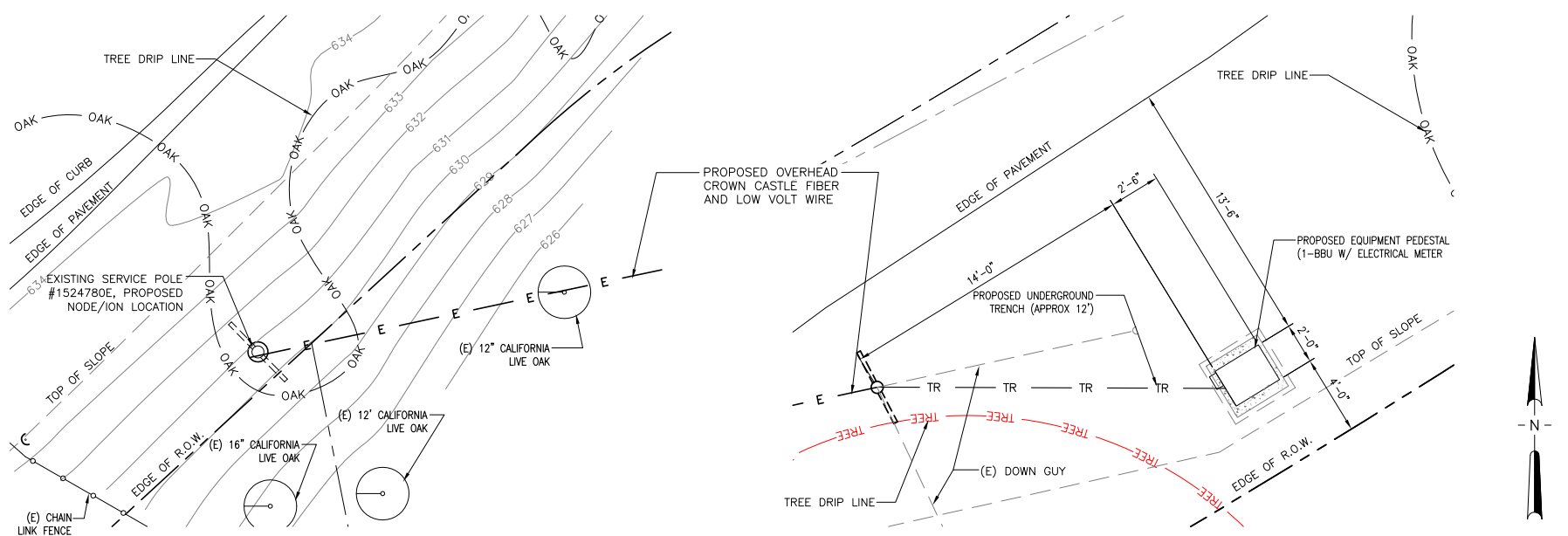
METER POLE

SITE PLAN

SCALE: 1"=10'-0" 1

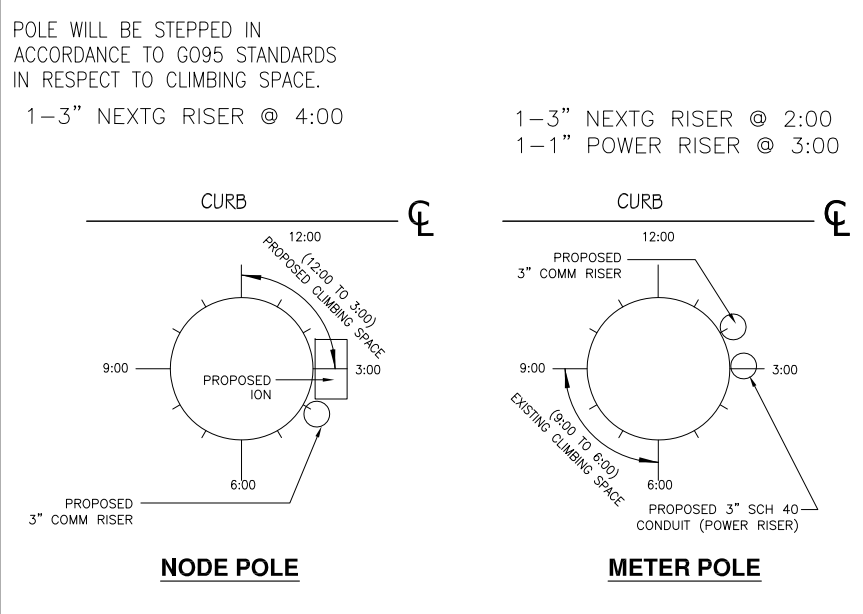
EXISTING PHOTOS

SCALE: N.T.S. 3



ENLARGED SITE PLAN

SCALE: 1/4"=1'-0" 1



RISER PROFILE

SCALE: N.T.S. 2

SITE INFO:

SITE NAME: **MON18**
VERIZON MONTECITO-MON18

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
R.O.W. SOUTH SIDE OF BELLA VISTA DR (ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.44805
LONG: -119.59984

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

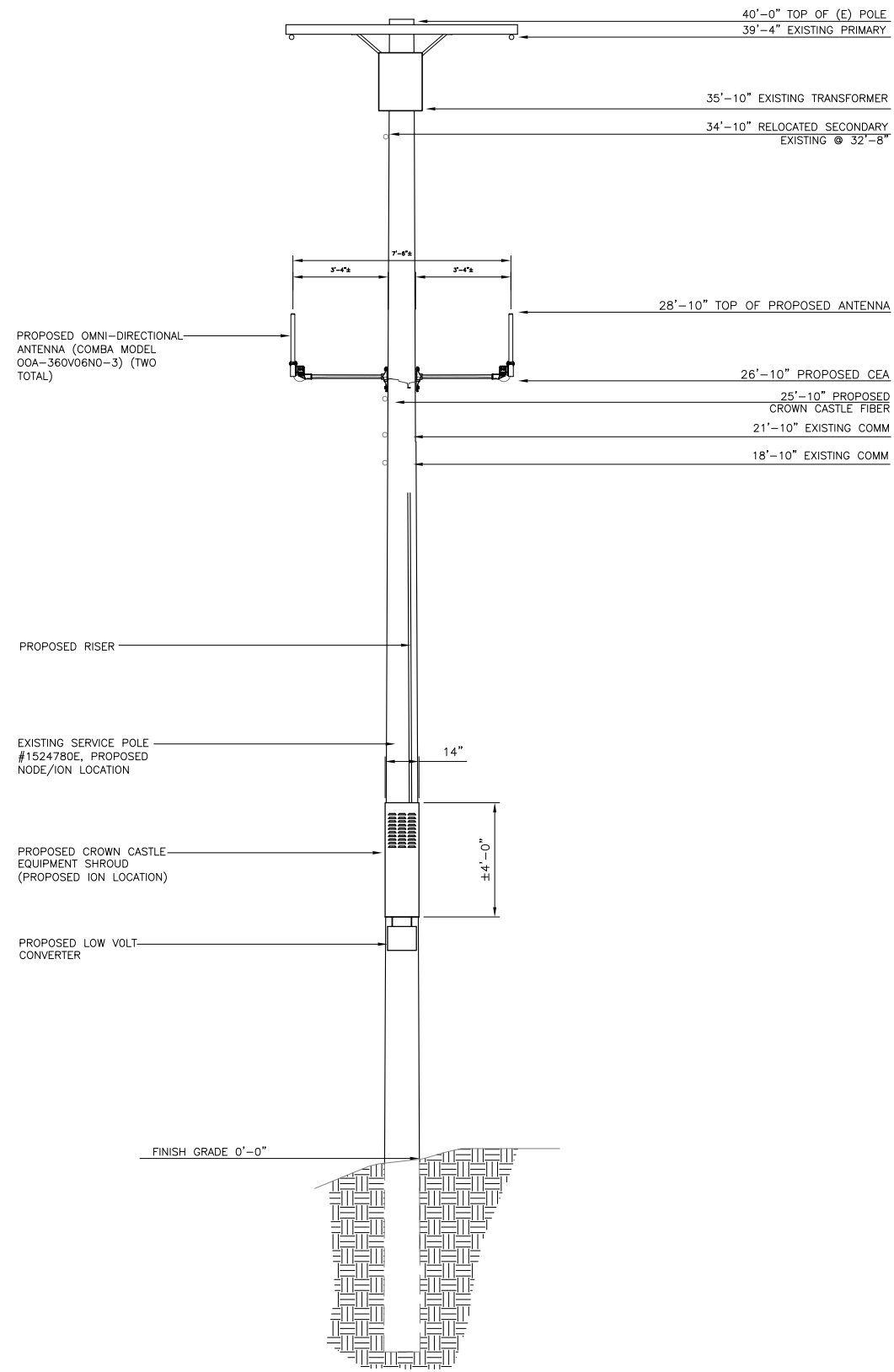
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DRAWN BY: FC

SHEET NUMBER:

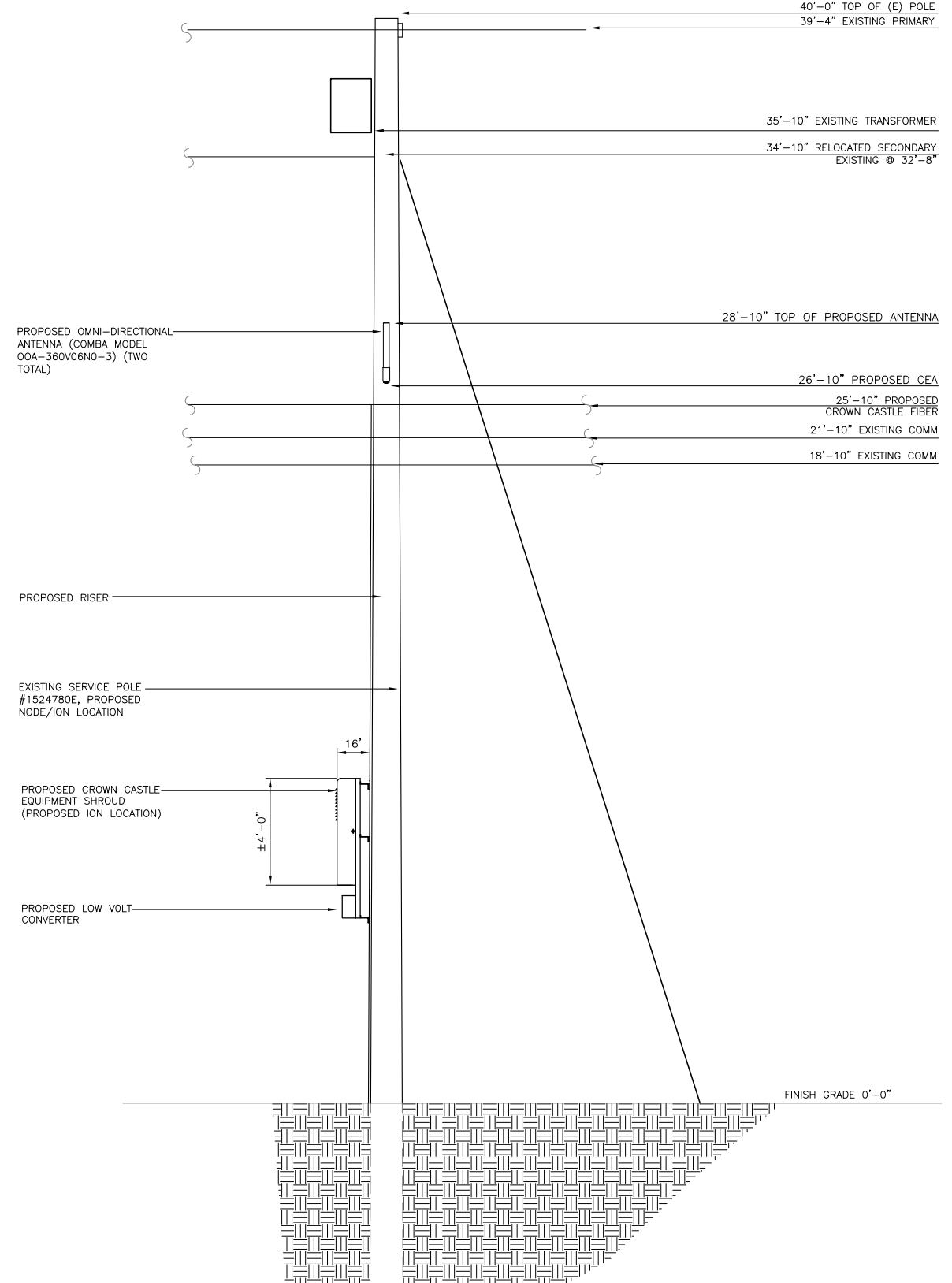
A-2

NOTE:
 1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



PROPOSED ELEVATION LOOKING EAST

SCALE: 3/8"=1'-0" 0 1' 2' 3' 1




PROPOSED ELEVATION LOOKING SOUTH

SCALE: 3/8"=1'-0" 0 1' 2' 3' 2

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ENGINEER/CONSULTANT:

Civil Engineer



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 26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
 (949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



CROWN CASTLE
 NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME:
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SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
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 (ADJACENT TO 2299 BELLA VISTA DR)
 SANTA BARBARA, CA 93108
 LAT: 34.44805
 LONG: -119.59984

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
 FC

SHEET NUMBER:

A-3


NOTE:
NO CUT AND FILL REQUIRED

GRADING CALCULATION	
CONCRETE PAD:	2.997 CF
VAULT:	66.9375 CF
12'Lx3'Dx.5'W TRENCH:	17.25 CF
TOTAL:	87.1845 CF

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ENGINEER/CONSULTANT:

Civil Engineer



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VERIZON MONTECITO-MON18

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.44805
LONG: -119.59984

SHEET TITLE:

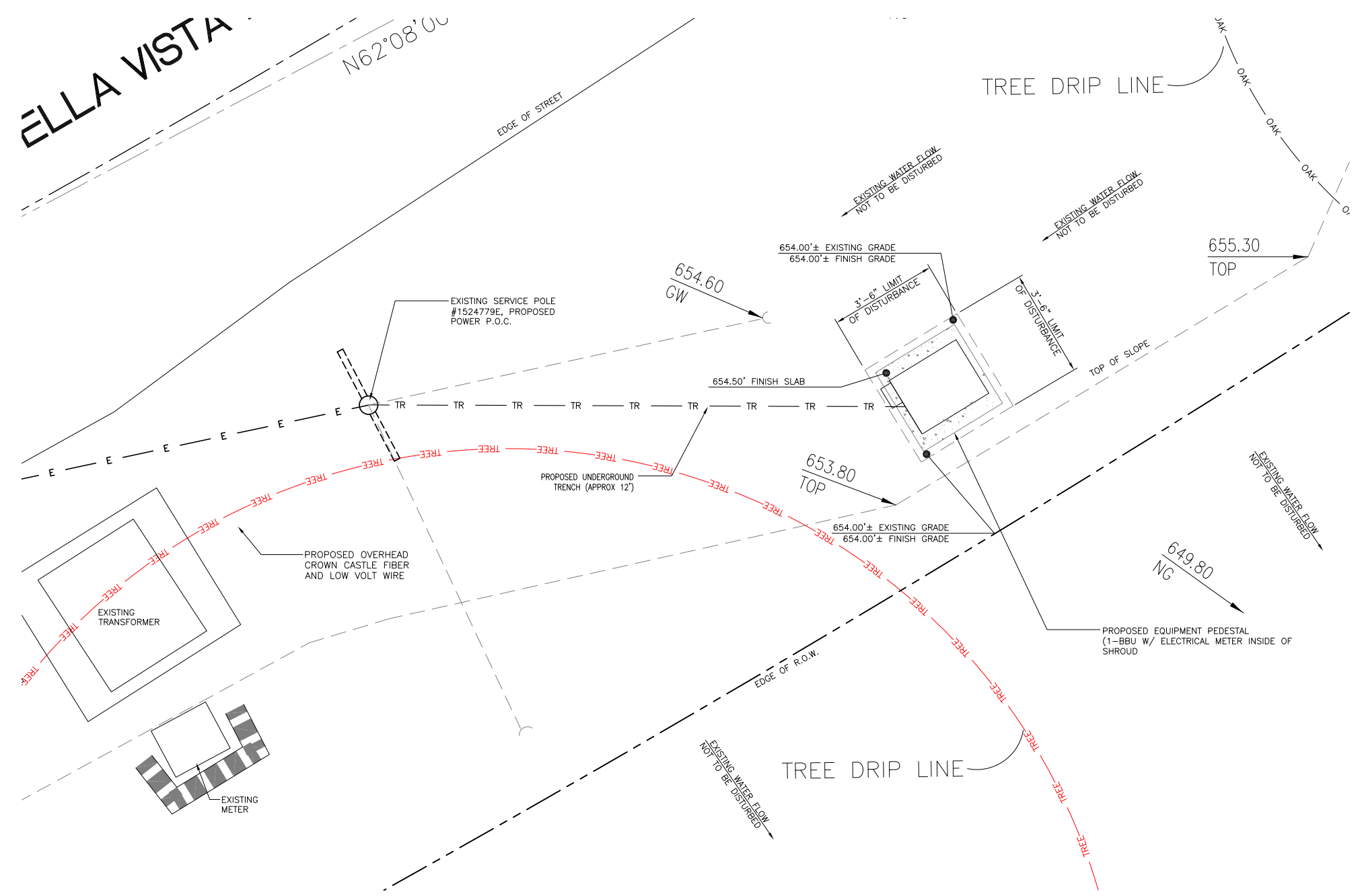
SITE PLAN AND ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-4



LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊖

Outdoor Omni-directional Antenna

COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

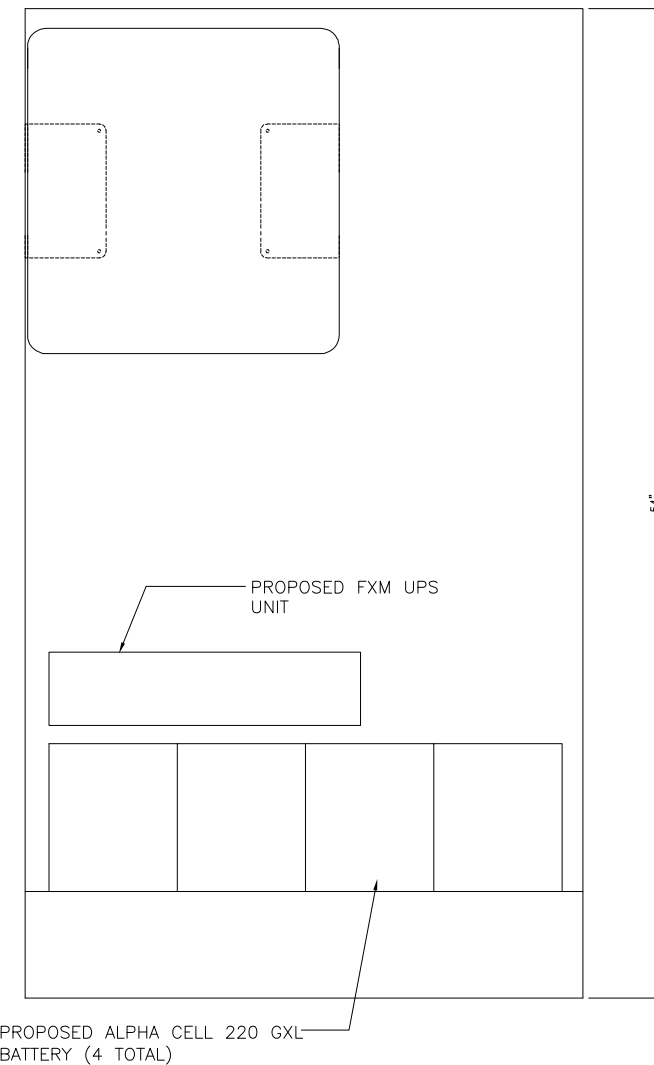
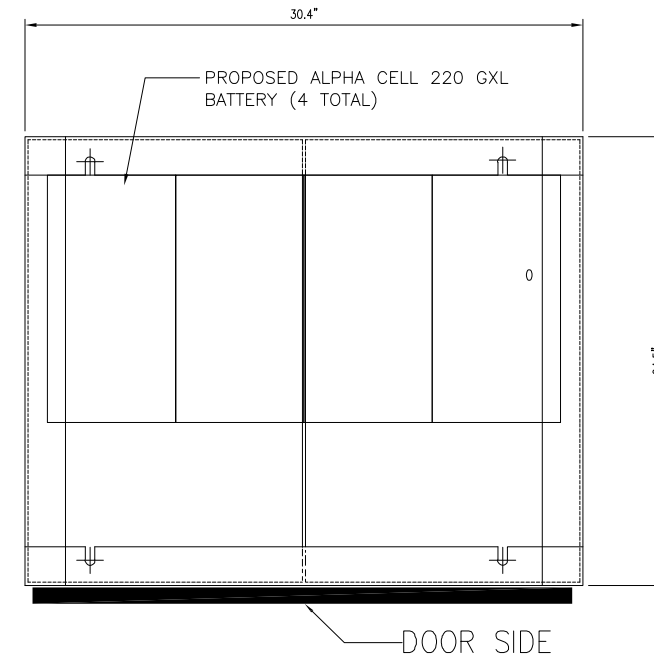
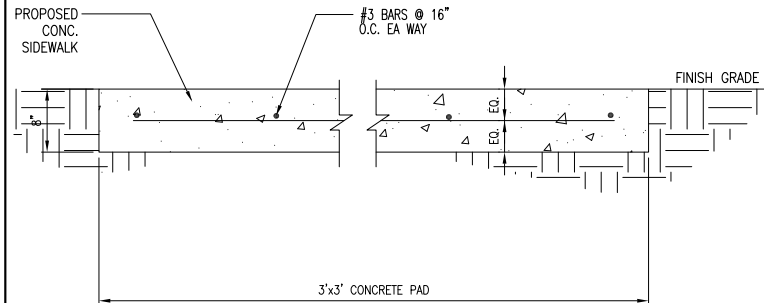
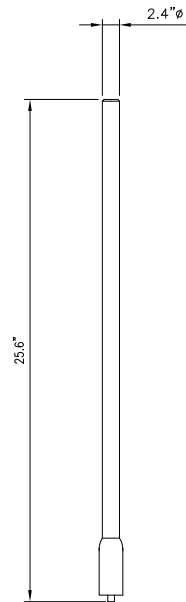
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



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ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME:
MON18
VERIZON MONTECITO-MON18

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
R.O.W. SOUTH SIDE OF BELLA VISTA DR
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DETAILS

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DRAWN BY:
FC

SHEET NUMBER:

D-1

ANTENNA SPECIFICATIONS

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	Uplink	698 to 716/776 to 787
	Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	Uplink	824 to 849
	Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz	Uplink	1850 to 1915
	Downlink	1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



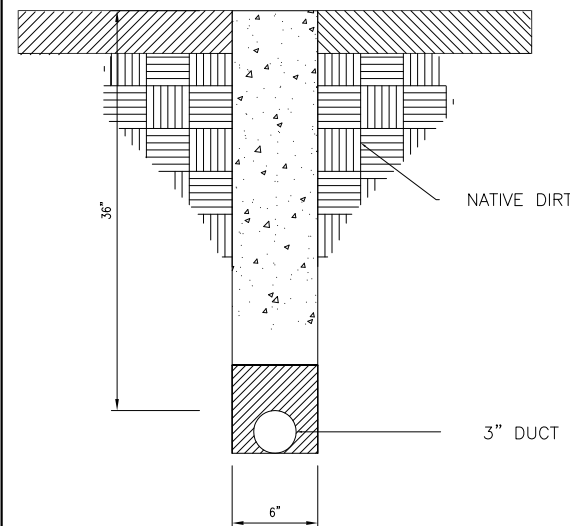
ION-M7P/7P/85P/19P

Noise figure, dB	ICP3 optimized	+10 max.
	Noise figure optimized	+6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
-------------------------------	---------------------------------------

Weight, kg (lb)	40 (88.2)
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* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

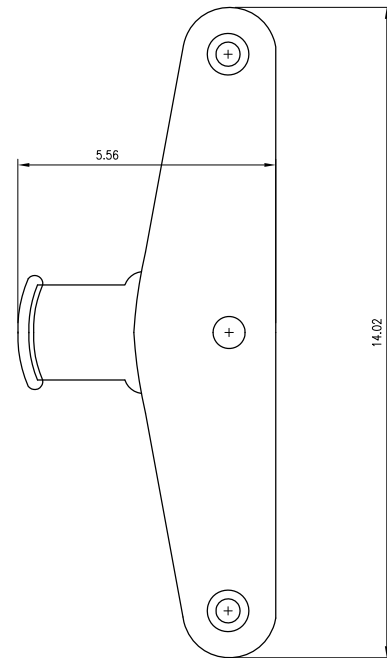
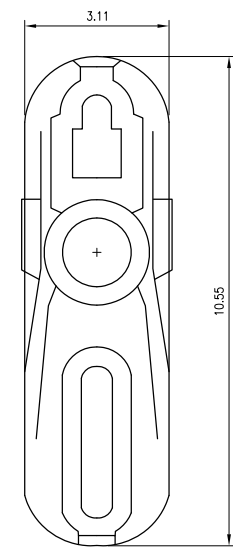
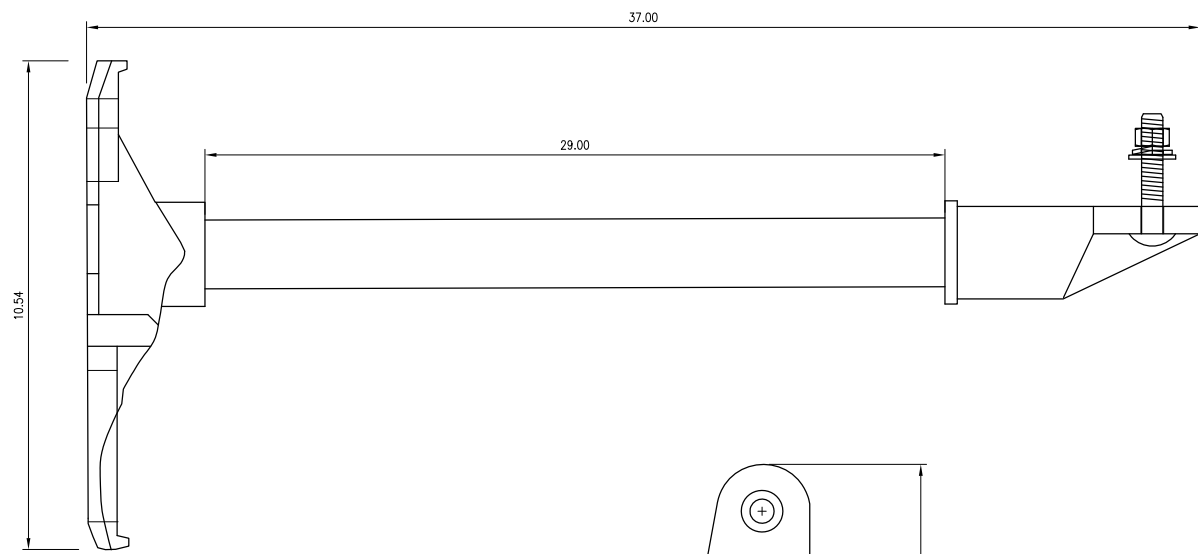
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EQUIPMENT PEDESTAL

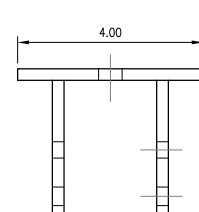
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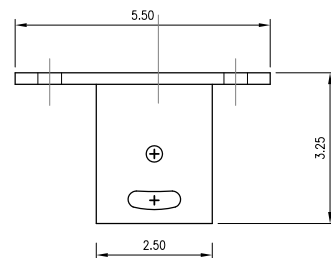


COMM SPACE BRACKET

FRONT VIEW

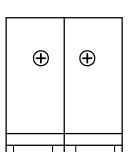


TOP VIEW

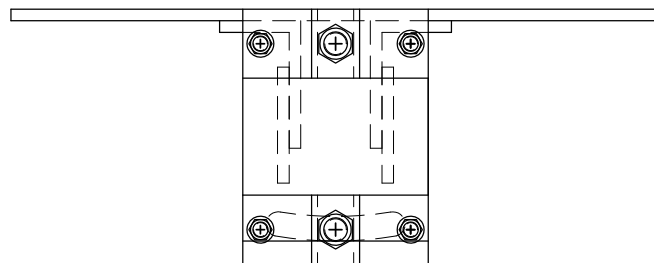


SIDE VIEW

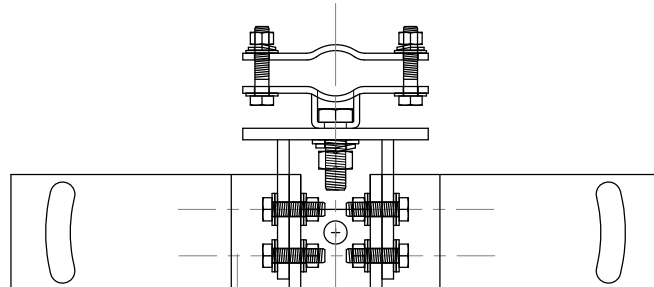
FRONT VIEW



TOP VIEW



FRONT VIEW



AlphaCell
General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes):	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme Low	Extreme Low	Extreme Low
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

Specifications²

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 90Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	9.48/215.4	9.48/215.4	9.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.5/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.63/173.4
Operating Temperature Range:	-40 to 71°C	-40 to 71°C	-40 to 71°C
Discharge:	(-40 to 150°F)	(-40 to 150°F)	(-40 to 150°F)
Charge (with temp compensation):	-23 to 60°C	-23 to 60°C	-23 to 60°C
Float Charging Voltage (Vdc):	(-9.4 to 140°F)	(-9.4 to 140°F)	(-9.4 to 140°F)
AC Ripple Charger:	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8

Notes:
¹Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
²Runtime is calculated using a 25A DC constant current load.
³Dimensions at top of battery.
⁴See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

AC/DC Load	4A	6A	8A	10A	12A	15A	20A	25A	30A	35A	40A	45A	50A
220 GXL	330	195	165	230	195	165	230	195	165	230	195	165	195
3 batteries	500	450	300	320	260	240	230	200	180	180	165	150	140
4 batteries	700	625	540	440	360	340	320	280	260	260	230	210	200
6 batteries	1000	875	720	600	480	460	440	380	360	360	320	290	280
8 batteries	1300	1125	900	760	600	580	560	480	460	460	400	370	360
10 batteries	1600	1375	1080	920	720	700	680	560	540	540	460	430	420

*Above calculations based on an AC load with a .90 cosine plant power factor.
 For contact information visit www.alpha.com

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USA	Tel: +1 360 647 2360 Fax: +1 360 671 4936	Russia	United Kingdom	P.R. China
				Contact USA office

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SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
 FC

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D-2

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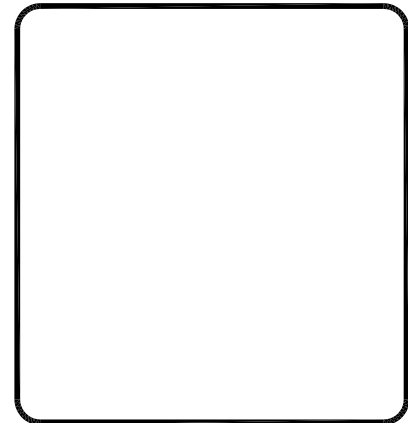
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SITE INFO:

SITE NAME:

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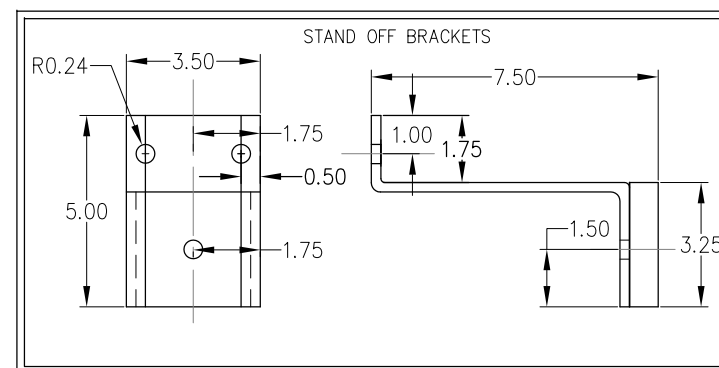
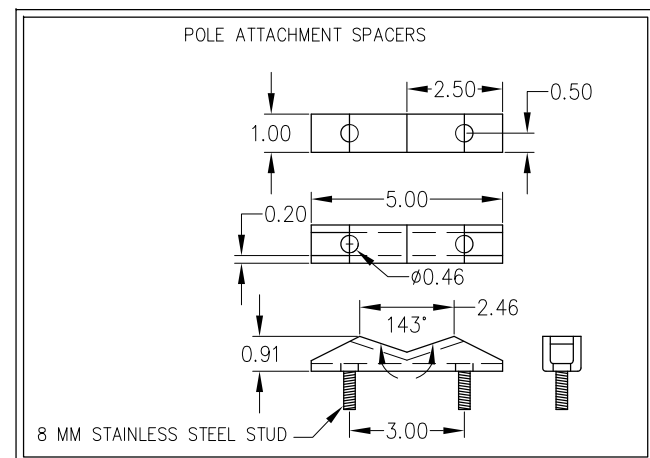
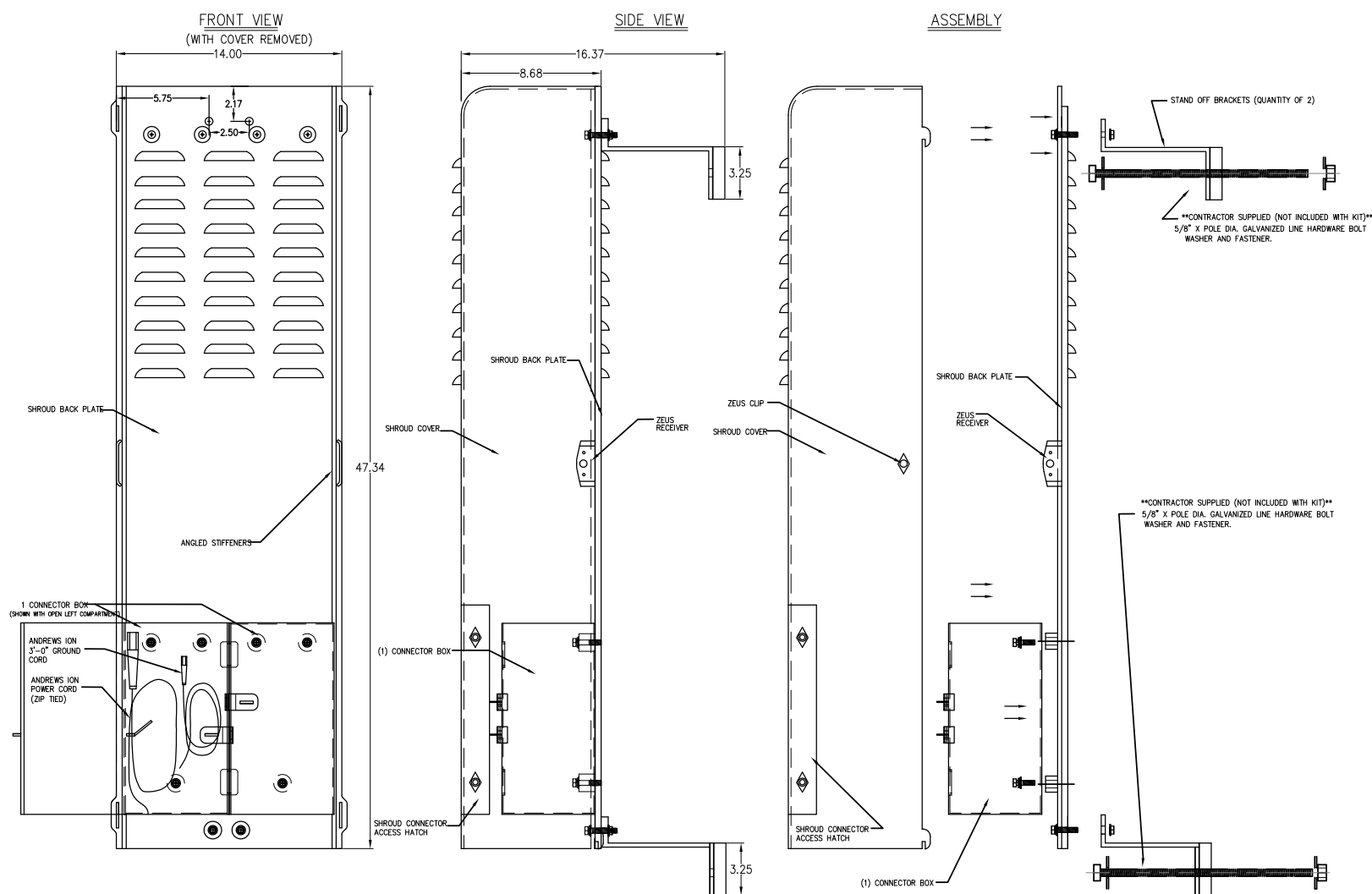
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3



GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.

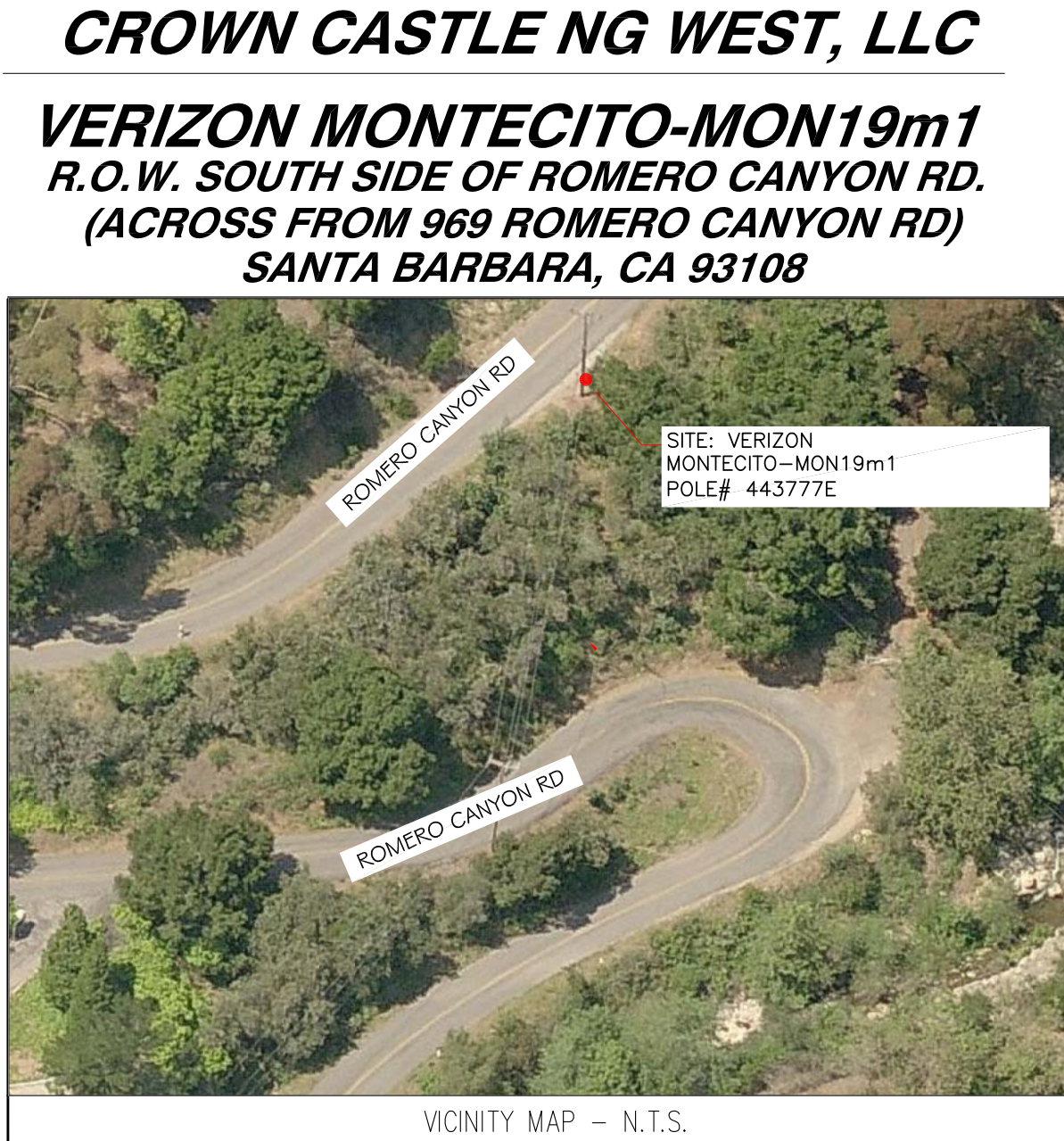


CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT PEDESTAL W/ BBU, AND ELECTRICAL METER AT BASE OF POLE
3. PROPOSED SHROUD W/ ION ON EXISTING UTILITY POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 6
SITE PLAN	A-1 - SHEET 2 OF 6
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 6
DETAILS	D-1 - SHEET 4 OF 6
DETAILS	D-2 - SHEET 5 OF 6
DETAILS	D-3 - SHEET 6 OF 6



SYMBOLS, LINETYPES AND HATCH PATTERNS			
	GROUND BUS BAR		LIGHT POLE
	MECH. GRND. CONN.		FOUNDATION
	CADWELD		SPOT ELEV.
	ELECTRIC BOX		SET POINT
	TELEPHONE BOX		REVISION
	EXISTING SERVICE POLE		ELEVATION REF.
	SIDEWALK FLAG		SECTION REF.
	EX. MANHOLE		PROP./LEASE LINE
			MATCH LINE
			WORK POINT
			TELE. CONDUIT
			CENTERLINE
			ELECT. CONDUIT
			COAXIAL CABLE
			MYERS PEDESTAL
			VAULT STANDARD 2'x3'
			STEEL POLE

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 - FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 - FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
 - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 - ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

- SITE ADDRESS:** R.O.W. SOUTH SIDE OF ROMERO CANYON RD. (ACROSS FROM 969 ROMERO CANYON RD) SANTA BARBARA, CA 93108
- APPLICANT:** CROWN CASTLE NG WEST, LLC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493
- CIVIL ENGINEER:** CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON19m1
VERIZON MONTECITO-MON19m1

SITE ADDRESS: THOMAS BROS PAGE 987 GRID E7
R.O.W. SOUTH SIDE OF ROMERO CANYON RD.
(ACROSS FROM 969 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.443777
LONG: -119.592570

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TITLE SHEET

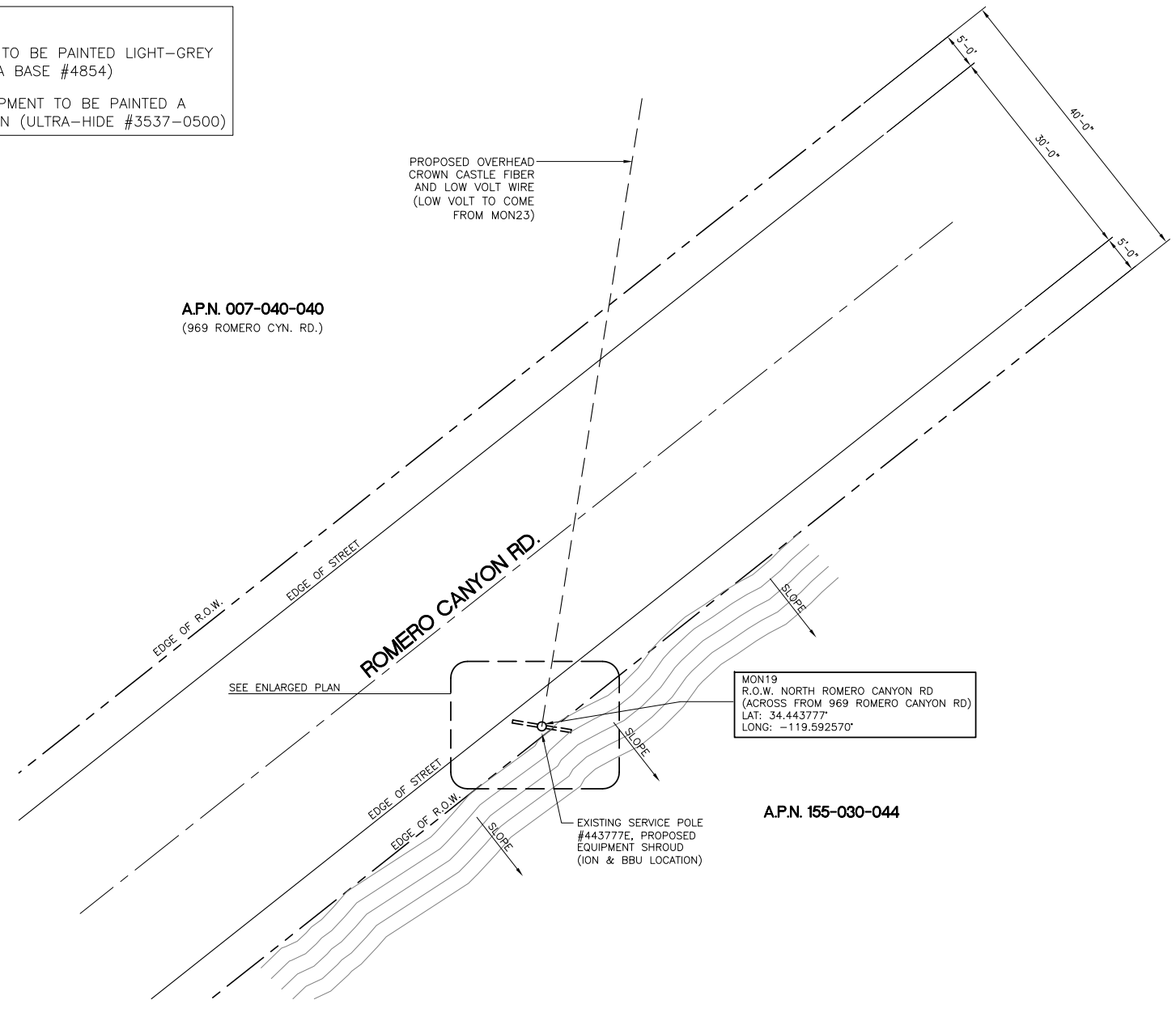
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DRAWN BY:
FC

SHEET NUMBER:

T-1

NOTE:
 1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



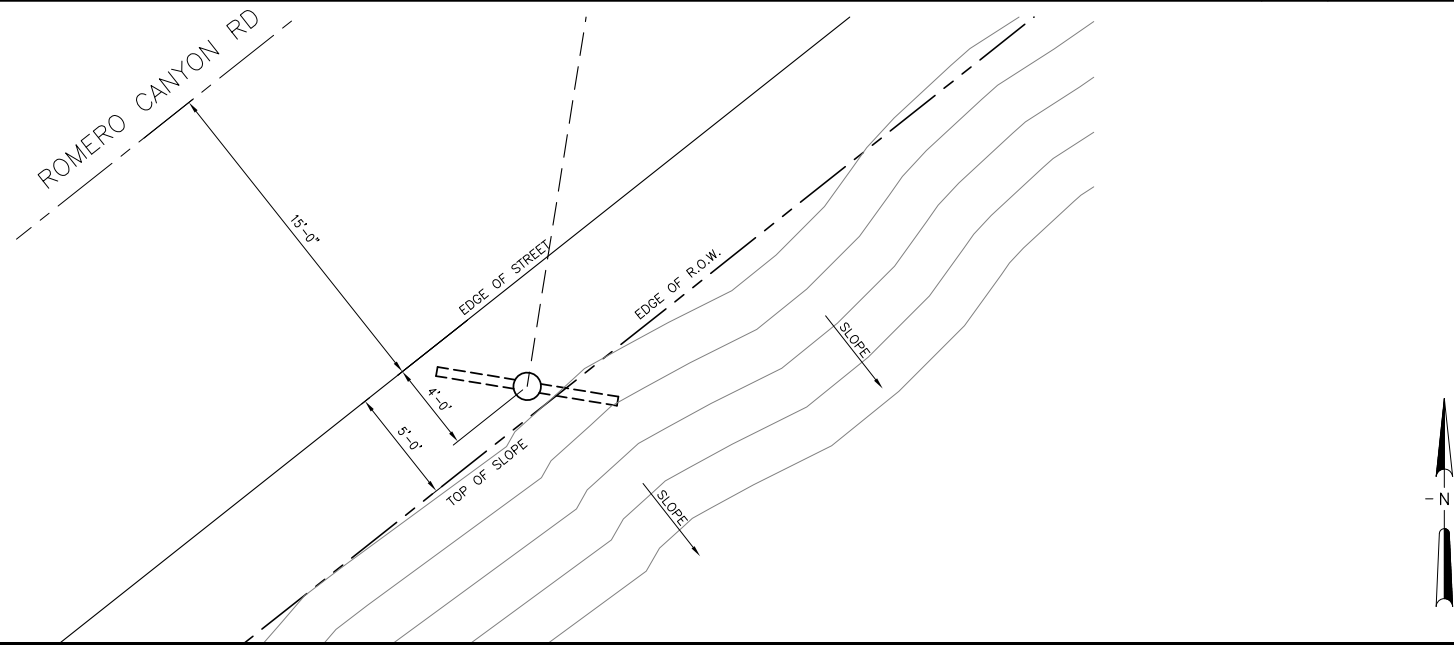
SITE PLAN

SCALE: 1"=10'-0"
 0 5 10' 1

EXISTING PHOTO

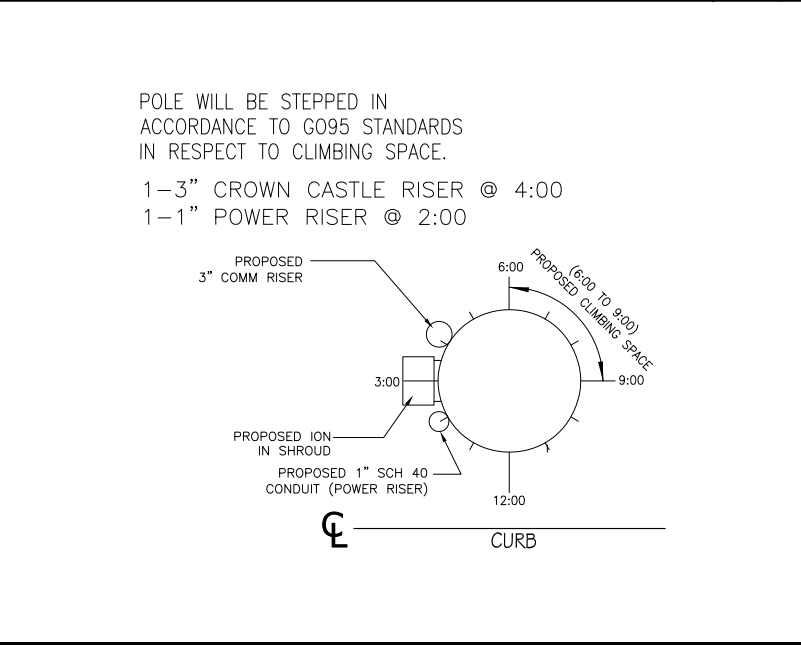


SCALE: N.T.S. 3



ENLARGED SITE PLAN

SCALE: 1/4"=1'-0"
 0 2 4' 2



RISER PROFILE

SCALE: N.T.S. 4

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CLIENT:

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 NG WEST, INC.

STAMP:

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 (ACROSS FROM 969 ROMERO CANYON RD)
 SANTA BARBARA, CA 93108
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 LONG: -119.592570

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

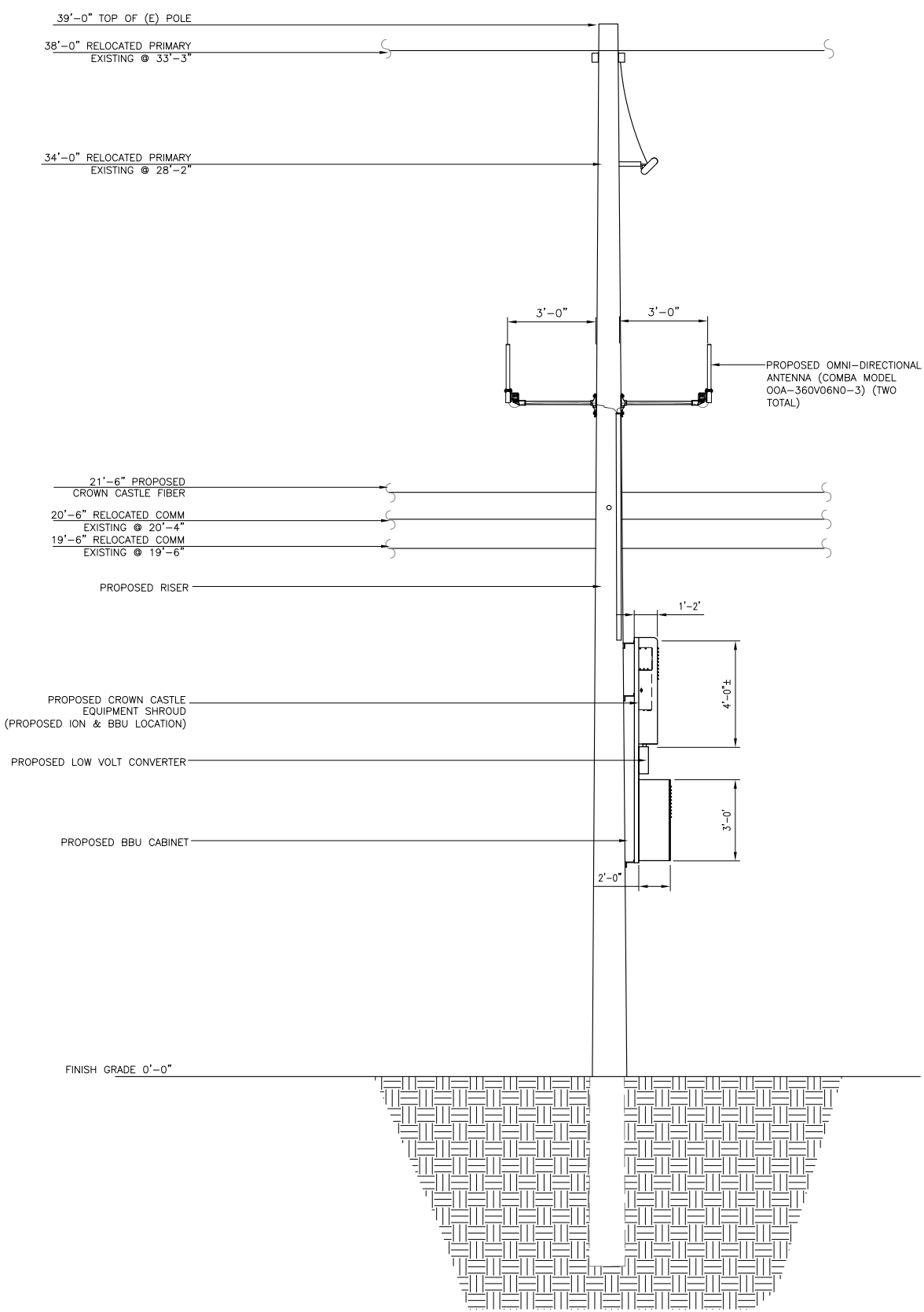
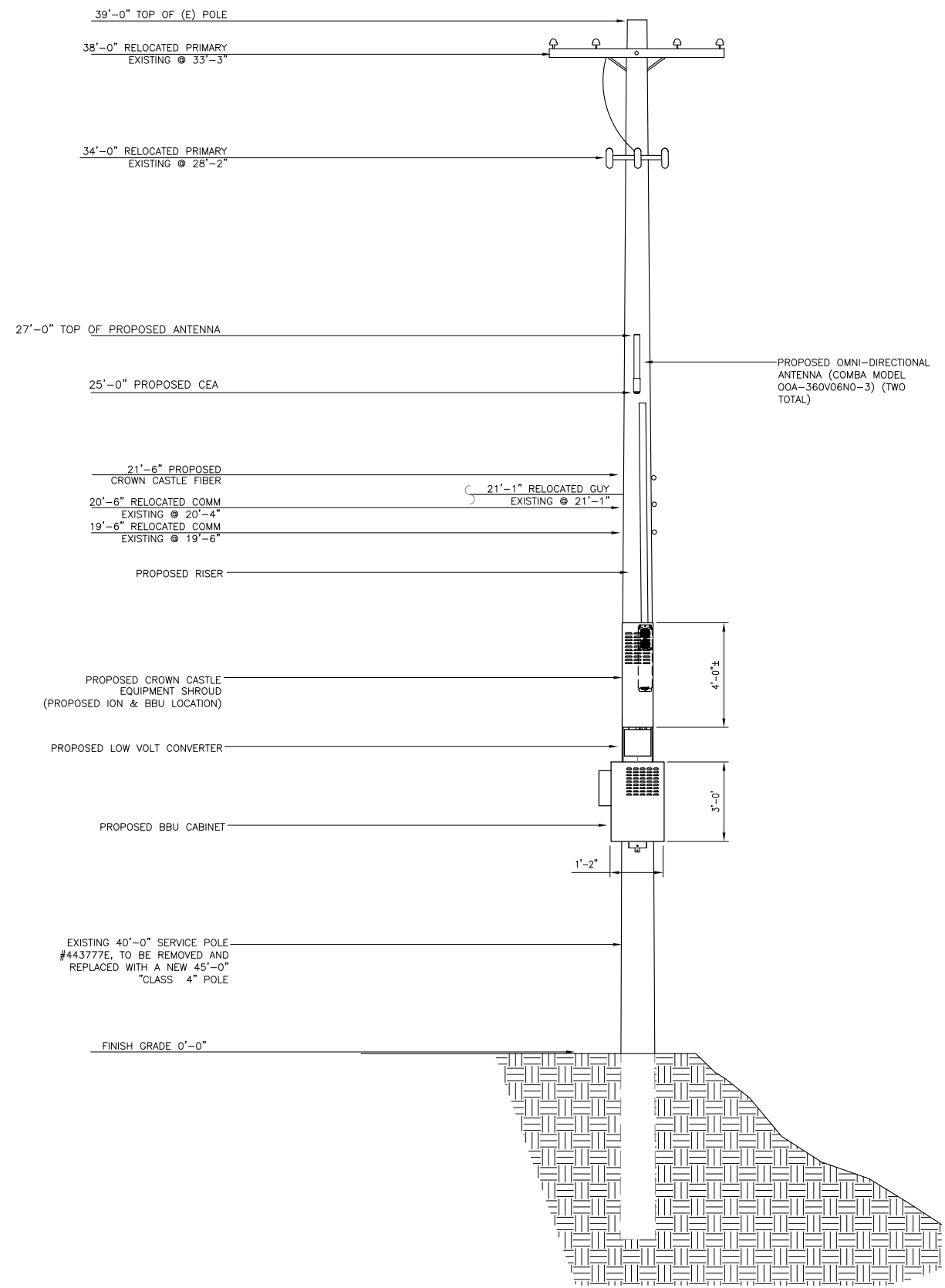
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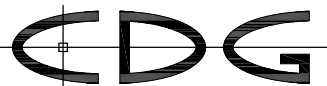
SHEET NUMBER:
A-1

NOTE:
 1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

SCE TO REPLACE EXISTING 40'-0" POLE
 W/ A NEW "CLASS 4" 45'-0" POLE



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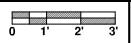
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SHEET TITLE:
ELEVATION

DRAWING INFO:
 DRAWN BY:
 FC

SHEET NUMBER:
A-3

PROPOSED ELEVATION LOOKING WEST

SCALE:
 3/8"=1'-0"
 1

PROPOSED ELEVATION LOOKING SOUTH

SCALE:
 3/8"=1'-0"
 2

Outdoor Omni-directional Antenna

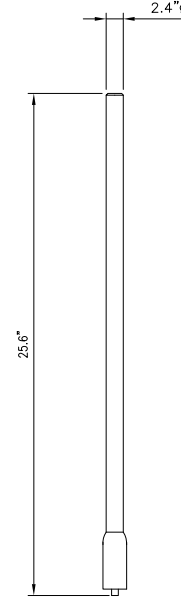


OOA-360V06N0-3 VPoI, 696-960/1710-2170MHz, 360°, 4.0/6.0dBi

Technical Specifications

Electrical		696-960	1710-2170
Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	Vertical
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	360
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt—Fixed	deg	0	0
VSWR		1.8	1.8
Maximum Power	W	200	200
Impedance		50	50
Lightning Protection		Direct Ground	Direct Ground

Mechanical		650x60 (25.6x2.4)
Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N—Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S. 1

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	Uplink: 698 to 716/776 to 787 Downlink: 728 to 757
----------------------	-------------------------------------------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	Uplink: 824 to 849 Downlink: 869 to 894
----------------------	--------------------------------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz	Uplink: 1850 to 1915 Downlink: 1930 to 1995
----------------------	------------------------------------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB	IP3 optimized: +10 max. Noise figure optimized: +6 max. 4.5 typical
------------------	---------------------------------------------------------------------------

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
Weight, kg (lb)	40 (88.2)

AlphaCell General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement Extended	4 to 5 year full replacement Extended	4 to 5 year full replacement Extended
Service Life:	220	195	165
Runtime (minutes) ² :	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme	Extreme	Extreme
Heat Resistant:	Low	Low	Low
Hydrogen Emission:	Threaded insert	Threaded insert	Threaded insert
Terminals:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC

Specifications⁴

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes) ² :	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	109Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.6/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range			
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 80°C (-9.4 to 140°F)	-23 to 80°C (-9.4 to 140°F)	-23 to 80°C (-9.4 to 140°F)
Float Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charge:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

Notes:

- Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
- Runtimes calculated using a 25A DC constant current load.
- Dimensions at top of battery.
- See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model/Voltage	4A	6A	8A	10A
XM290Vdc				
Battery Runtime	220	195	165	220
3 batteries	508	453	396	508
4 batteries	701	625	546	701
6 batteries	1001	903	783	1001
8 batteries	1487	1338	1165	1487
9 batteries	1896	1699	1482	1896
XM290Vdc				
Battery Runtime	220	195	165	220
3 batteries	449	392	335	449
4 batteries	598	522	446	598
6 batteries	897	783	669	897
8 batteries	1196	1044	894	1196
9 batteries	1495	1293	1113	1495
XM200Vdc				
Battery Runtime	220	195	165	220
3 batteries	798	712	622	798
4 batteries	1001	903	783	1001
6 batteries	1487	1338	1165	1487
8 batteries	2288	2007	1728	2288
9 batteries	2840	2545	2207	2840
XM290Vdc				
Battery Runtime	220	195	165	220
3 batteries	242	215	188	242
4 batteries	339	301	264	339
6 batteries	538	479	419	538
8 batteries	741	660	577	741
9 batteries	843	753	658	843

*Above calculations based on an AC load with a .90 cable plant power factor.
For contact information visit www.alpha.com

The Alpha Group >

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USA Tel: +1 360 647 2360 Fax: +1 360 671 4936	Russia Tel: +7 495 325 9844 Fax: +7 495 916 1343	United Kingdom Tel: +44 1279 501110 Fax: +44 1279 659870	P.R. China Tel: +852 2736 8663 Fax: +852 2199 7988
			Contact USA office:

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049-297-10-8002 (06/09)

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ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

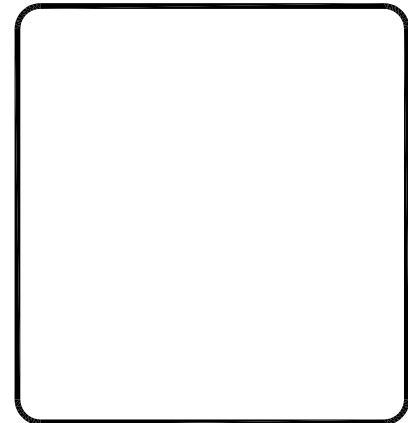
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



NG WEST, INC.

STAMP:



SITE INFO:

SITE NAME: MON19m1
VERIZON MONTECITO-MON19m1
SITE ADDRESS: THOMAS BROS PAGE 987 GRID E7
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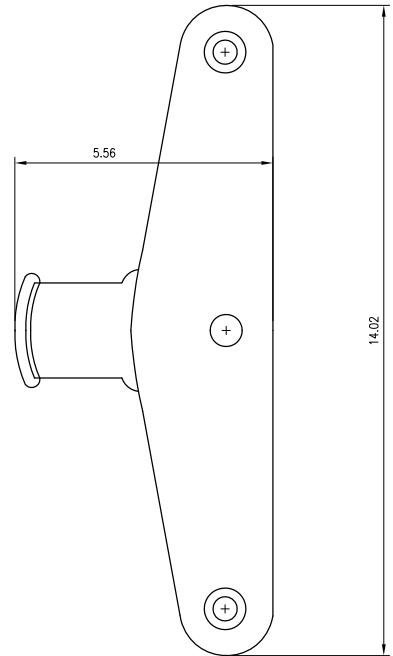
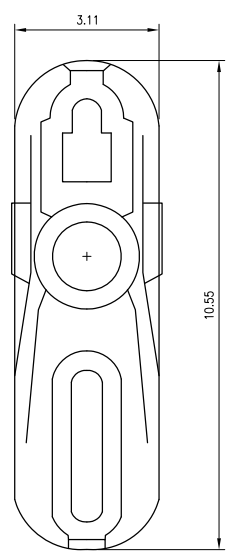
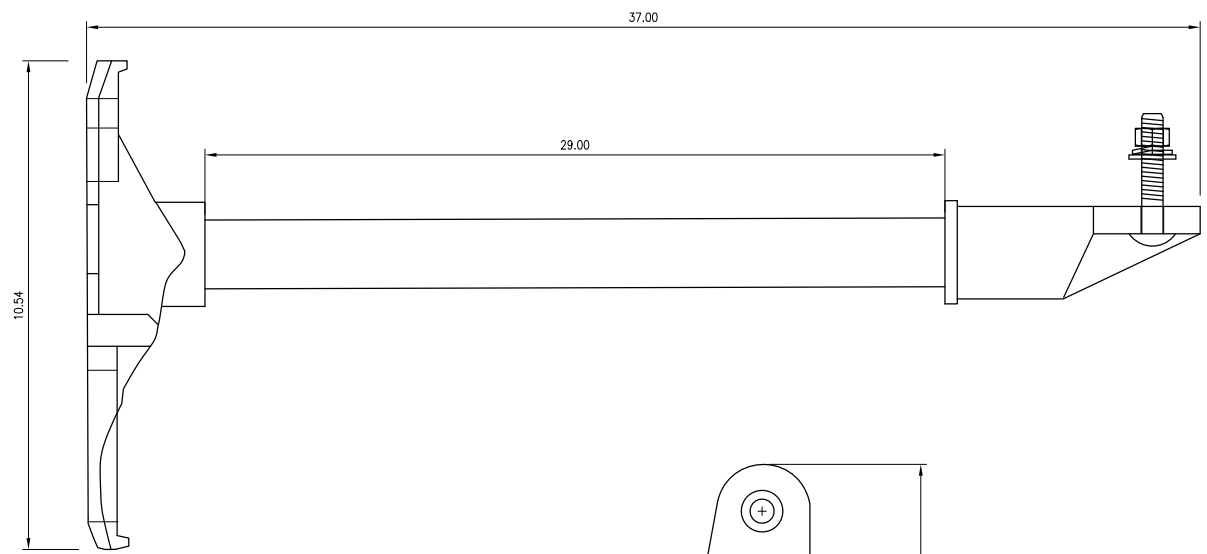
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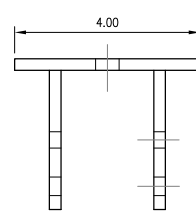
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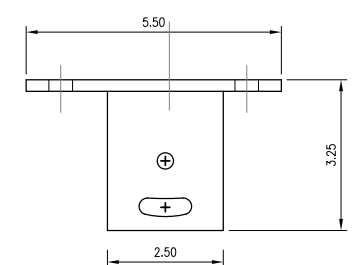


COMM SPACE BRACKET

FRONT VIEW

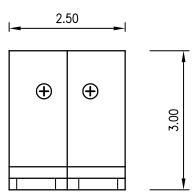


TOP VIEW



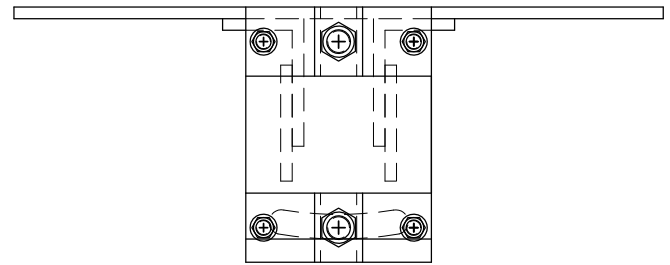
FRONT VIEW

SIDE VIEW

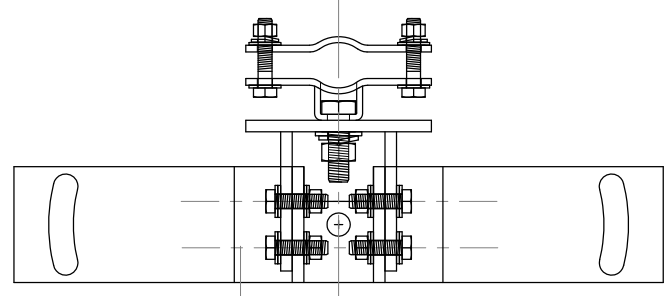


FRONT VIEW

TOP VIEW




FRONT VIEW



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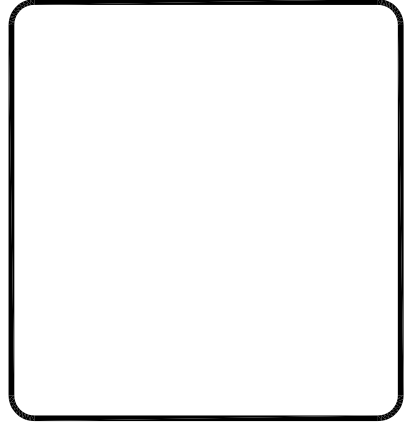
CONNELL DESIGN GROUP, LLC
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CLIENT:



**CROWN
CASTLE**
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STAMP:



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D-2

REV.	DATE/BY:	REVISION DESCRIPTION:
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Civil Engineer

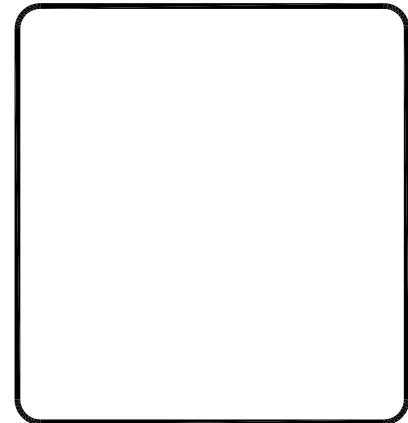


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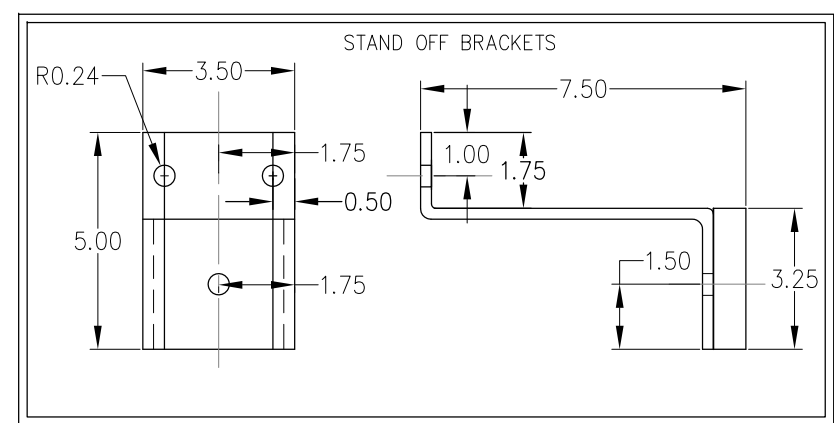
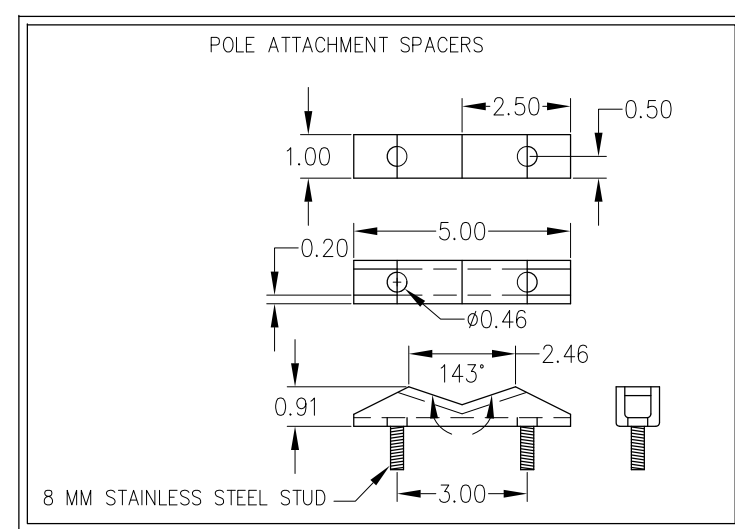
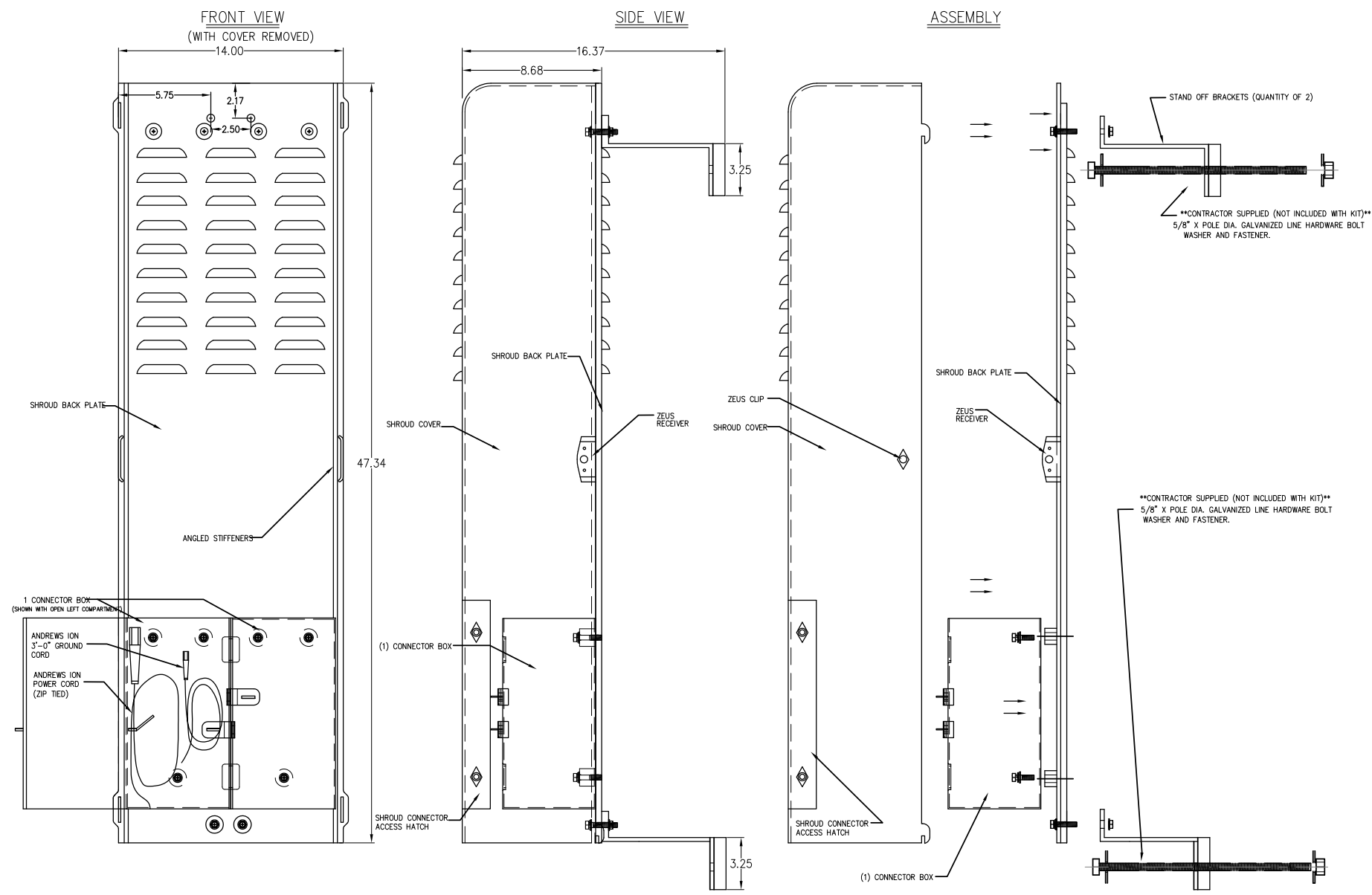
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3



GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI DIRECTIONAL ANTENNA ON EXISTING UTILITY POLE
2. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 8
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 8
SITE PLAN	A-1 - SHEET 3 OF 8
PROPOSED ELEVATIONS	A-2 - SHEET 4 OF 8
GRADING PLAN	A-3 - SHEET 5 OF 8
DETAILS	D-1 - SHEET 6 OF 8
DETAILS	D-2 - SHEET 7 OF 8
DETAILS	D-3 - SHEET 8 OF 8

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON20

R.O.W. SOUTH SIDE OF ROMERO CANYON RD.

(ADJACENT TO 850 ROMERO CANYON)

SANTA BARBARA, CA 93108



SYMBOLS, LINETYPES AND HATCH PATTERNS			
	GROUND BUS BAR		LIGHT POLE
	MECH. GRND. CONN.		FOUNDATION
	CADWELD		SPOT ELEV.
	ELECTRIC BOX		SET POINT
	TELEPHONE BOX		REVISION
	EXISTING SERVICE POLE		DETAIL REF.
	SIDEWALK FLAG		ELEVATION REF.
	EX. MANHOLE		SECTION REF.
			PROP./LEASE LINE
			MATCH LINE
			WORK POINT
			TELE. CONDUIT
			CENTERLINE
			ELECT. CONDUIT
			COAXIAL CABLE
			MYERS PEDESTAL
			VAULT STANDARD 2'x3'
			STEEL POLE

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 - FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 - FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
 - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 - ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" x 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF ROMERO CANYON RD. (ADJACENT TO 850 ROMERO CANYON) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
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3	FXC 11/06/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON20
VERIZON MONTECITO-MON20

SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
R.O.W. SOUTH SIDE OF ROMERO CANYON RD.
(ADJACENT TO 850 ROMERO CANYON)
SANTA BARBARA, CA 93108
LAT: 34.44327
LONG: -119.59602

SHEET TITLE:

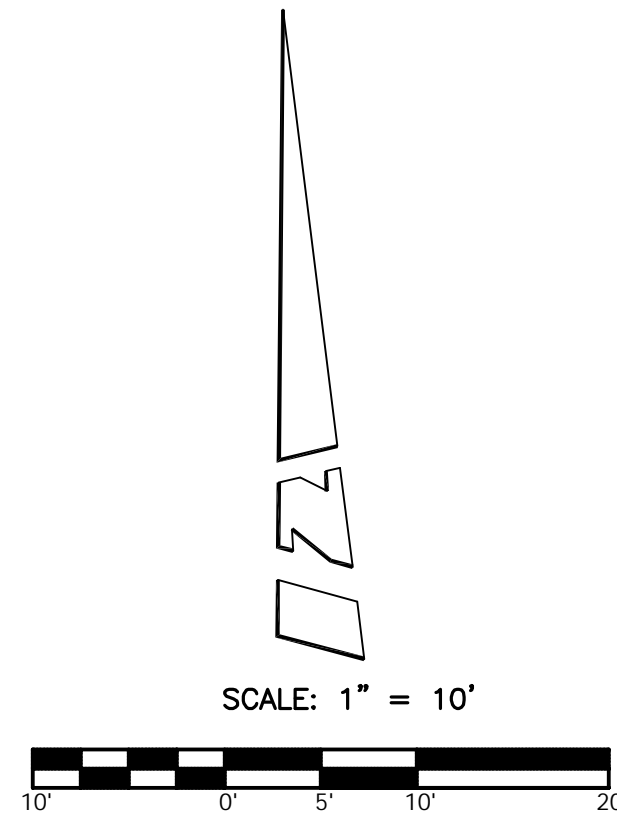
TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

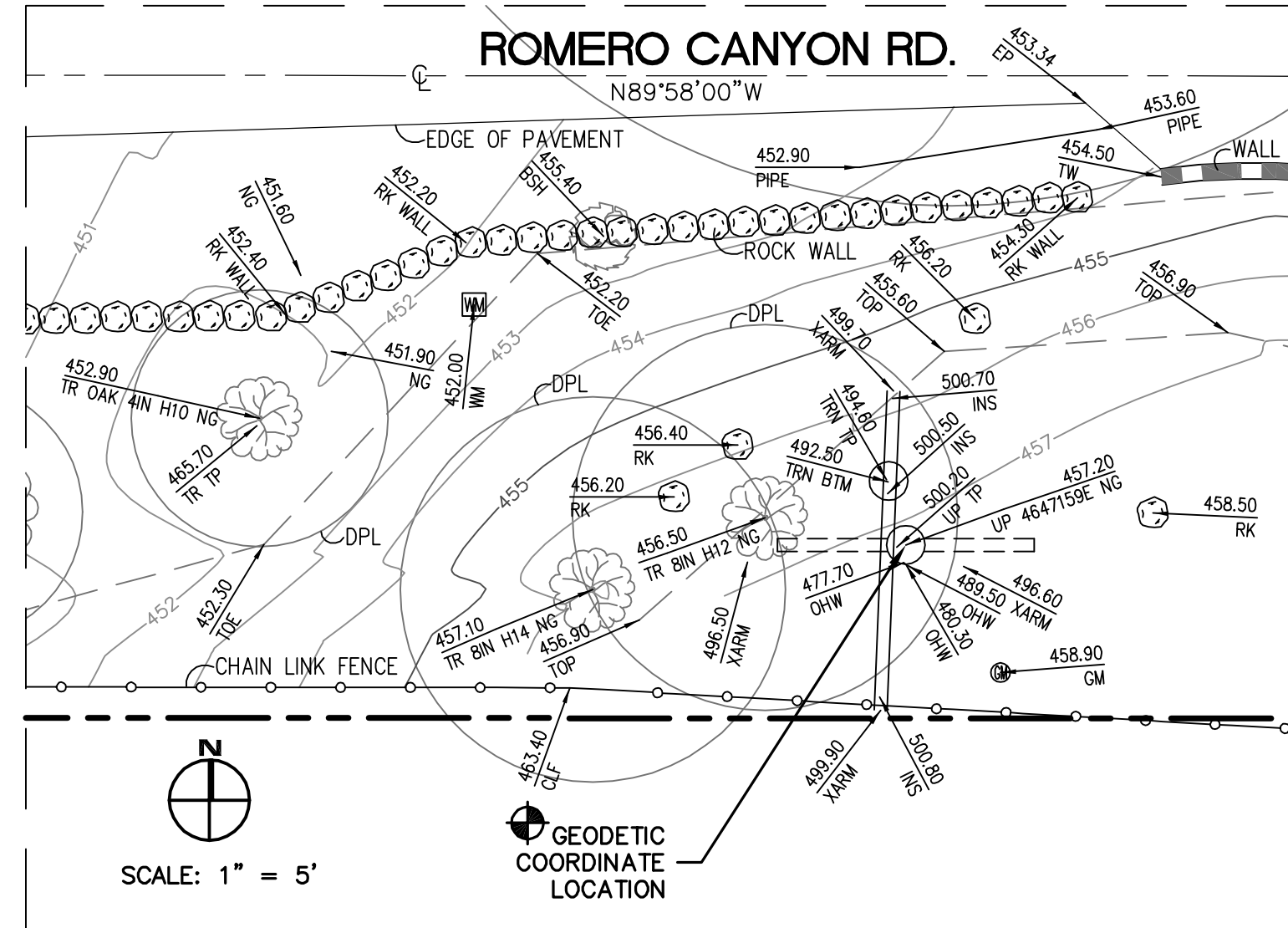
SHEET NUMBER:

T-1



LEGEND:

- AC ASPHALT CONCRETE
 - BDK BRASS DISK
 - BSH BUSH
 - BTM BOTTOM
 - CLF CHAIN LINK FENCE
 - DPL DRIP LINE
 - EM ELECTRICAL METER
 - EOC EDGE OF CONCRETE
 - EP EDGE OF PAVEMENT
 - FD FOUND
 - GM GAS METER
 - INS INSULATOR
 - IP IRON PIPE
 - NFOW NORTH FACE OF WALL
 - NG NATURAL GROUND
 - OHW OVERHEAD WIRE
 - RK ROCK
 - TOE TOE OF SLOPE
 - TOP TOP OF SLOPE
 - TP TOP
 - TR TREE
 - TRN TRANSFORMER
 - TW TOP OF WALL
 - UP UTILITY POLE
 - WM WATER METER
 - XARM CROSS ARM
-
- BLOCK WALL
 - CHAIN LINK FENCE
 - CENTERLINE
 - FOUND MONUMENT
 - GAS METER
 - UTILITY POLE
 - WATER METER



COORDINATES:

LATITUDE 34°26'35.32" N
 LONGITUDE 119°35'45.39" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTeCH" G.P.S. RECEIVERS AND ASHTeCH SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE NORTH RIGHT OF WAY LINE OF ROMERO CANYON ROAD, BEING SOUTH 89°58'00" EAST PER RECORD OF SURVEY, R.S.B. 62/22, RECORDS OF SANTA BARBARA COUNTY.

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 472"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 472" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 474.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 11, 2013

SURVEYORS NOTE:

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.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/22/13 JA	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:

CONNELL DESIGN GROUP, LLC
 CONSULTING CIVIL ENGINEERS
 26455 RANCHO PKWY. SOUTH
 LAKE FOREST, CA 92630-8326
 (949) 753-8807 OFFICE • (949) 753-8833 FAX

SITE BUILDER:

CROWN CASTLE
 NG WEST, INC.

SURVEYOR:

BERT HAZE
 AND ASSOCIATES, INC.
 LAND SURVEYING & MAPPING
 3188 AIRWAY AVENUE, SUITE K1
 COSTA MESA, CALIFORNIA 92626
 714 557-1567 OFFICE
 714 557-1568 FAX
 JN. 706.233

STAMP:

SITE INFO:

SITE NAME:
 MON20
 VERIZON MONTECITO-MON20

SITE ADDRESS:
 R.O.W. SOUTH SIDE OF ROMERO CYN. RD.
 (ADJACENT TO 850 ROMERO CYN. ROAD)
 SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

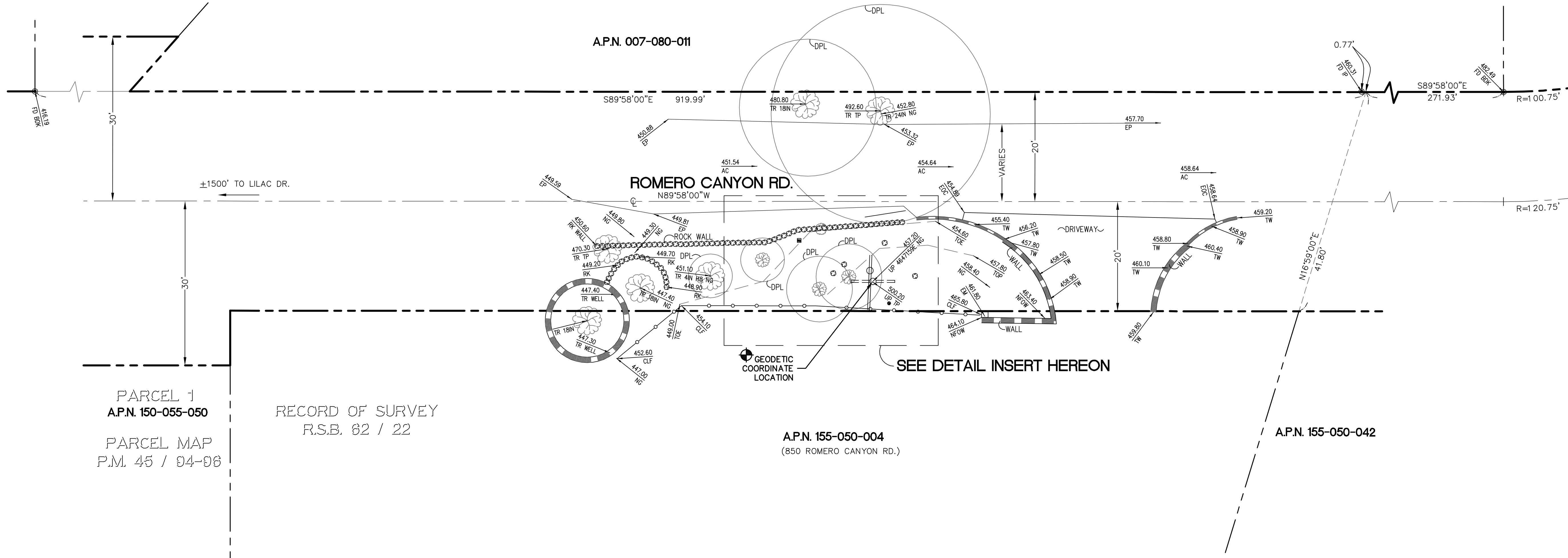
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DWG. NAME: MON20	DRAWN BY: JA	DATE: 07/22/13
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SHEET NUMBER:

1 OF 1 | C-1

PARCEL MAP
 P.M. 14 / 30-31
 PARCEL C
 A.P.N. 007-080-034



RECORD OF SURVEY
 R.S.B. 62 / 22

A.P.N. 155-050-004
 (850 ROMERO CANYON RD.)

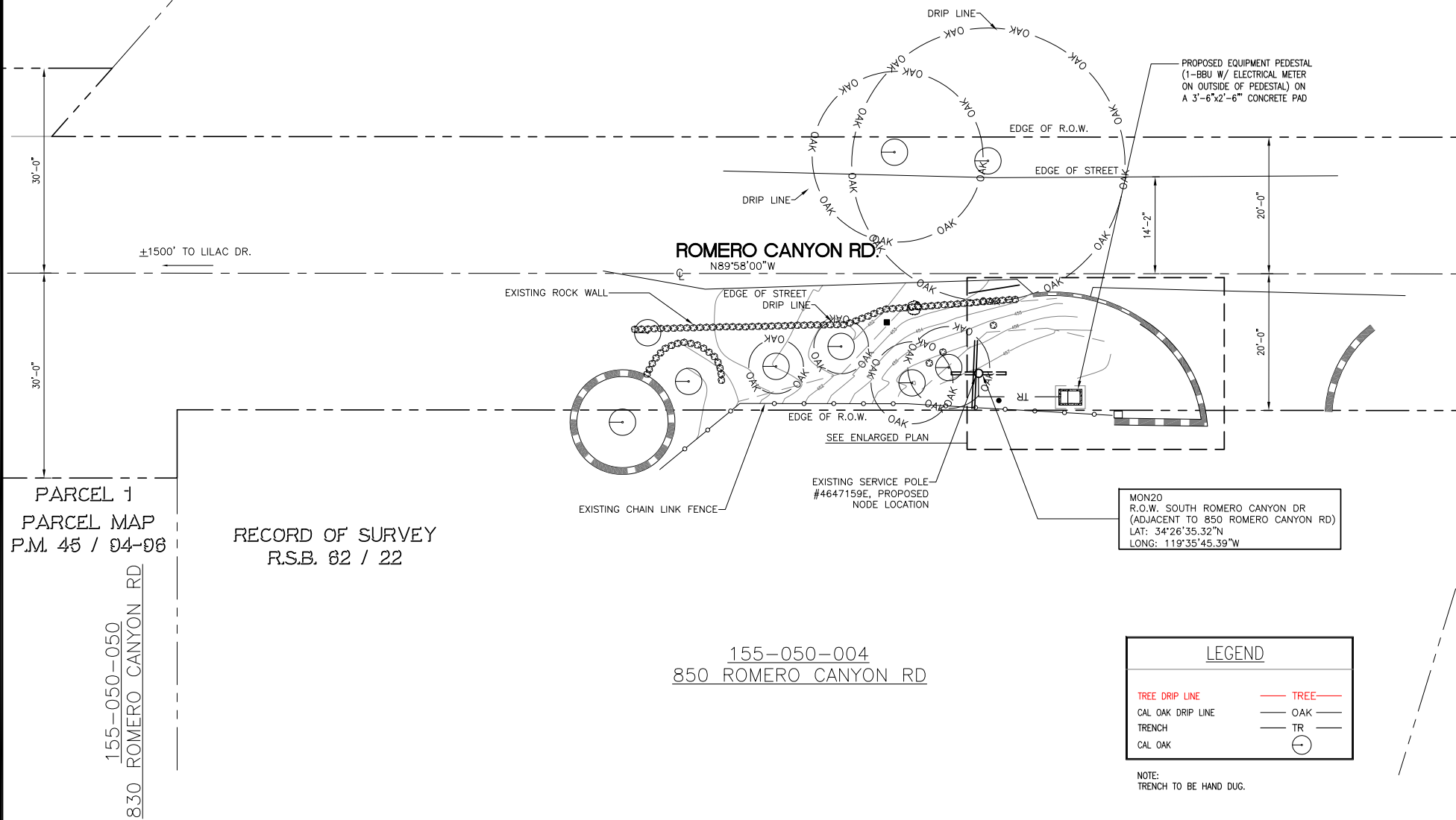
A.P.N. 155-050-042

007-080-034
809 ROMERO CANYON RD

PARCEL MAP
P.M. 14 / 30-31
PARCEL C

NOTE:
1. ANTENNA TO BE PAINTED LIGHT- GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

007-080-011
865 ROMERO CANYON RD

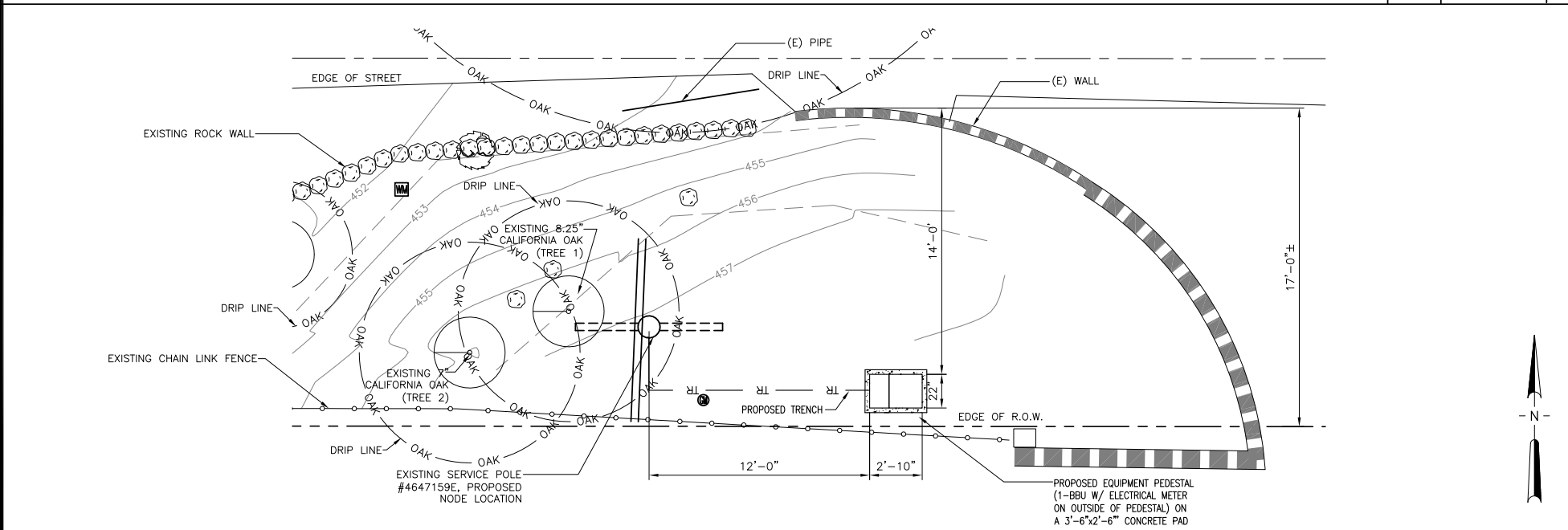
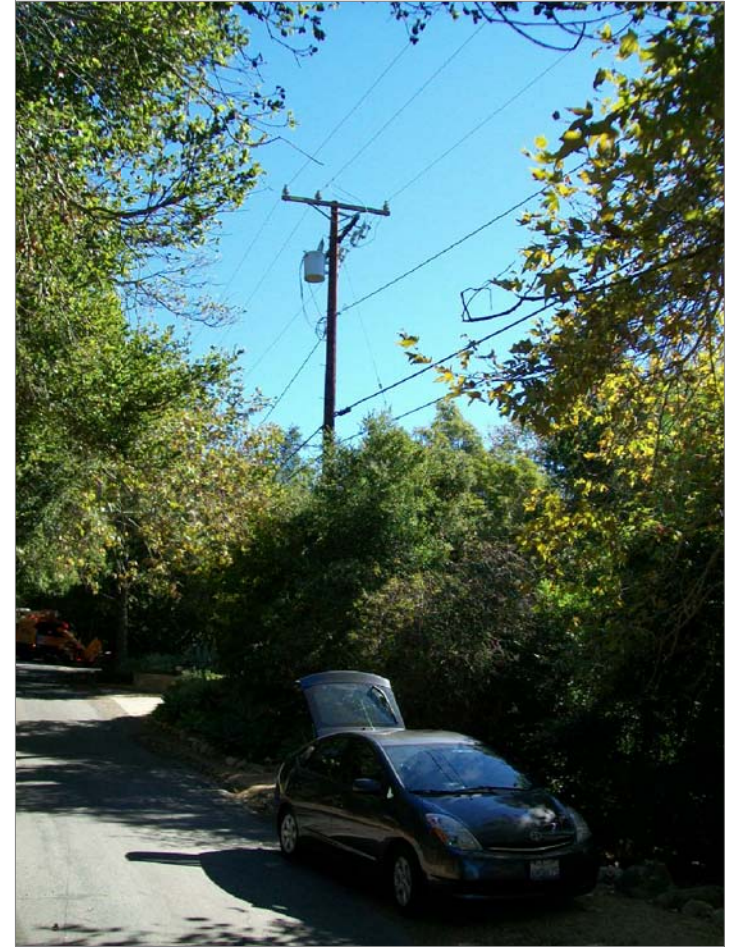


SITE PLAN

SCALE: 1"=10'-0"
0 5' 10'

EXISTING PHOTO

SCALE: N.T.S.



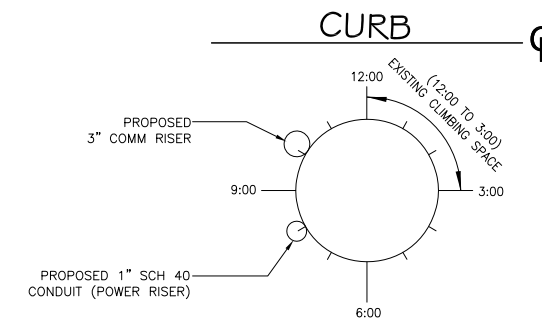
ENLARGED SITE PLAN

SCALE: 1/4"=1'-0"
0 2' 4'

RISER PROFILE

SCALE: N.T.S.

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.
1-3" CROWN CASTLE RISER @ 10:00
1-1" POWER RISER @ 8:00



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ENGINEER/CONSULTANT:

Civil Engineer

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CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

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SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
R.O.W. SOUTH SIDE OF ROMERO CANYON RD.
(ADJACENT TO 850 ROMERO CANYON)
SANTA BARBARA, CA 93108
LAT: 34.44327
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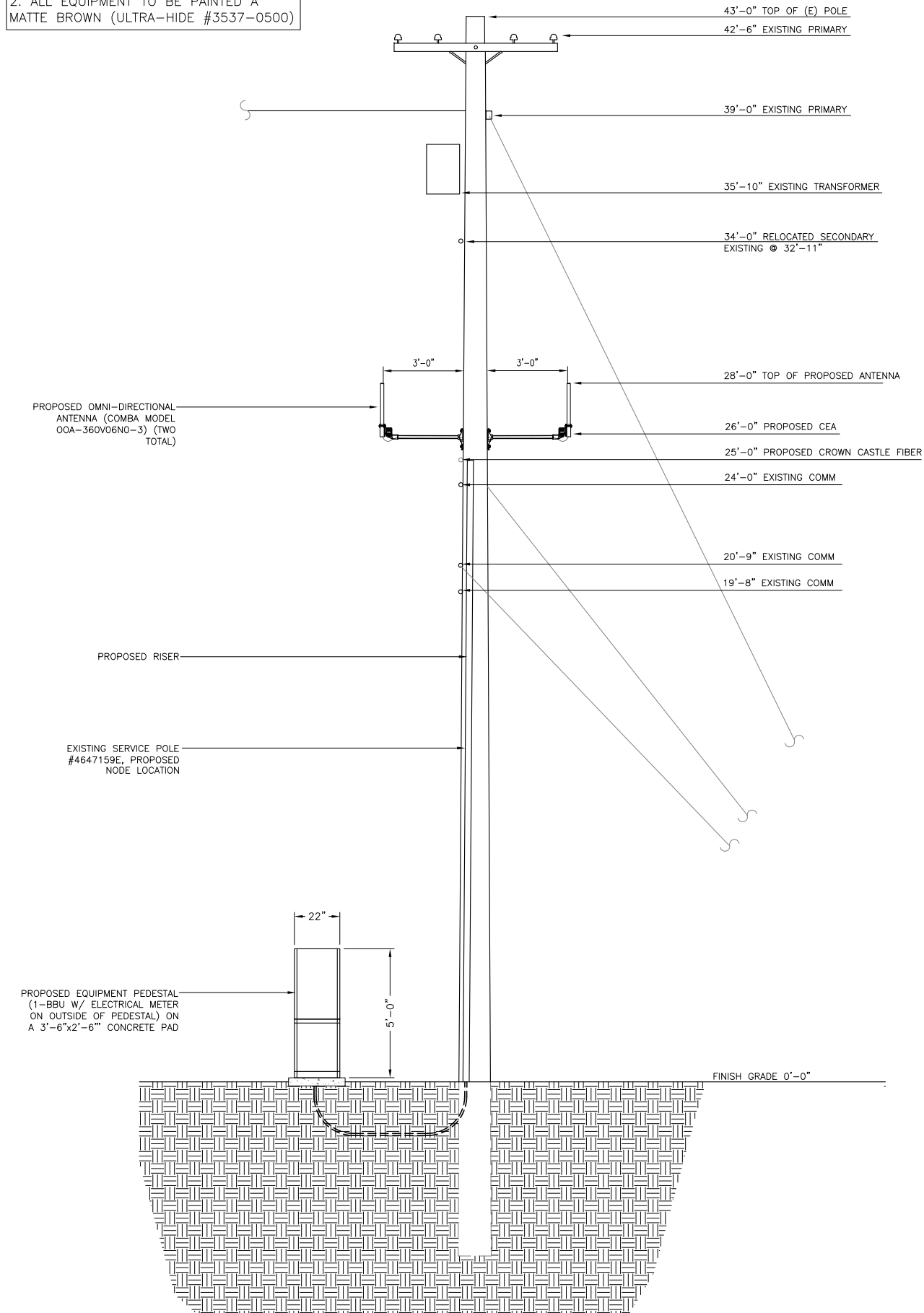
SHEET TITLE:
SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

DRAWING INFO:
DRAWN BY:
FC

SHEET NUMBER:
A-1

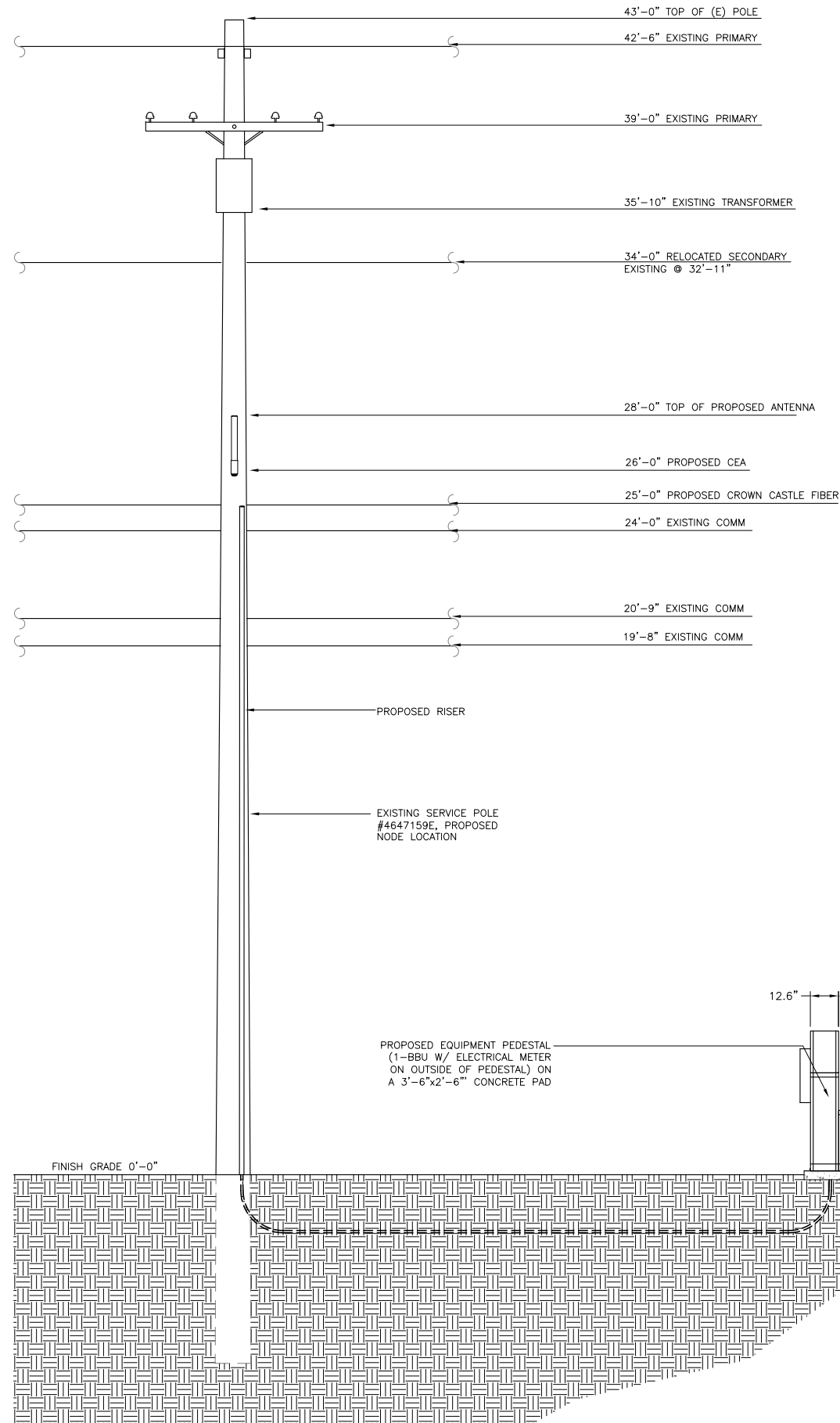
NOTE:

1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



PROPOSED ELEVATION LOOKING WEST

SCALE: 3/8"=1'-0" 1



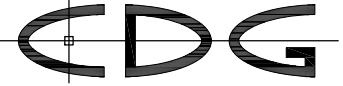
PROPOSED ELEVATION LOOKING SOUTH

SCALE: 3/8"=1'-0" 2

REV:	DATE/BY:	REVISION DESCRIPTION:
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3	FXC 11/06/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



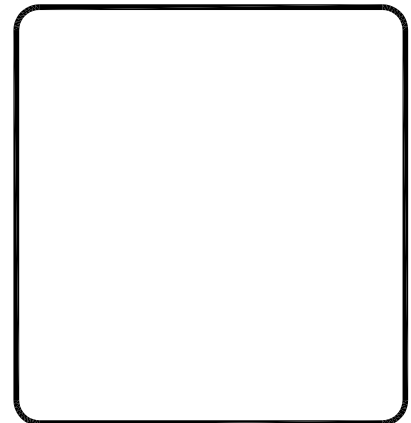
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 733-8807 OFFICE - (949) 733-8833 FAX

CLIENT:



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(ADJACENT TO 850 ROMERO CANYON)
SANTA BARBARA, CA 93108
LAT: 34.44327
LONG: -119.59602

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-2

NOTE:
NO CUT AND FILL REQUIRED

GRADING CALCULATION

CONCRETE PAD:	4.375 CF
12'Lx3'Dx.5'W TRENCH:	18.00 CF
TOTAL:	22.375 CF

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3	FXC 11/06/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

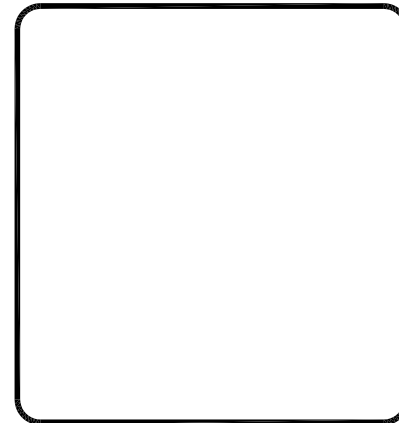


CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON20
VERIZON MONTECITO-MON20
SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
R.O.W. SOUTH SIDE OF ROMERO CANYON RD.
(ADJACENT TO 850 ROMERO CANYON)
SANTA BARBARA, CA 93108
LAT: 34.44327
LONG: -119.59602

SHEET TITLE:

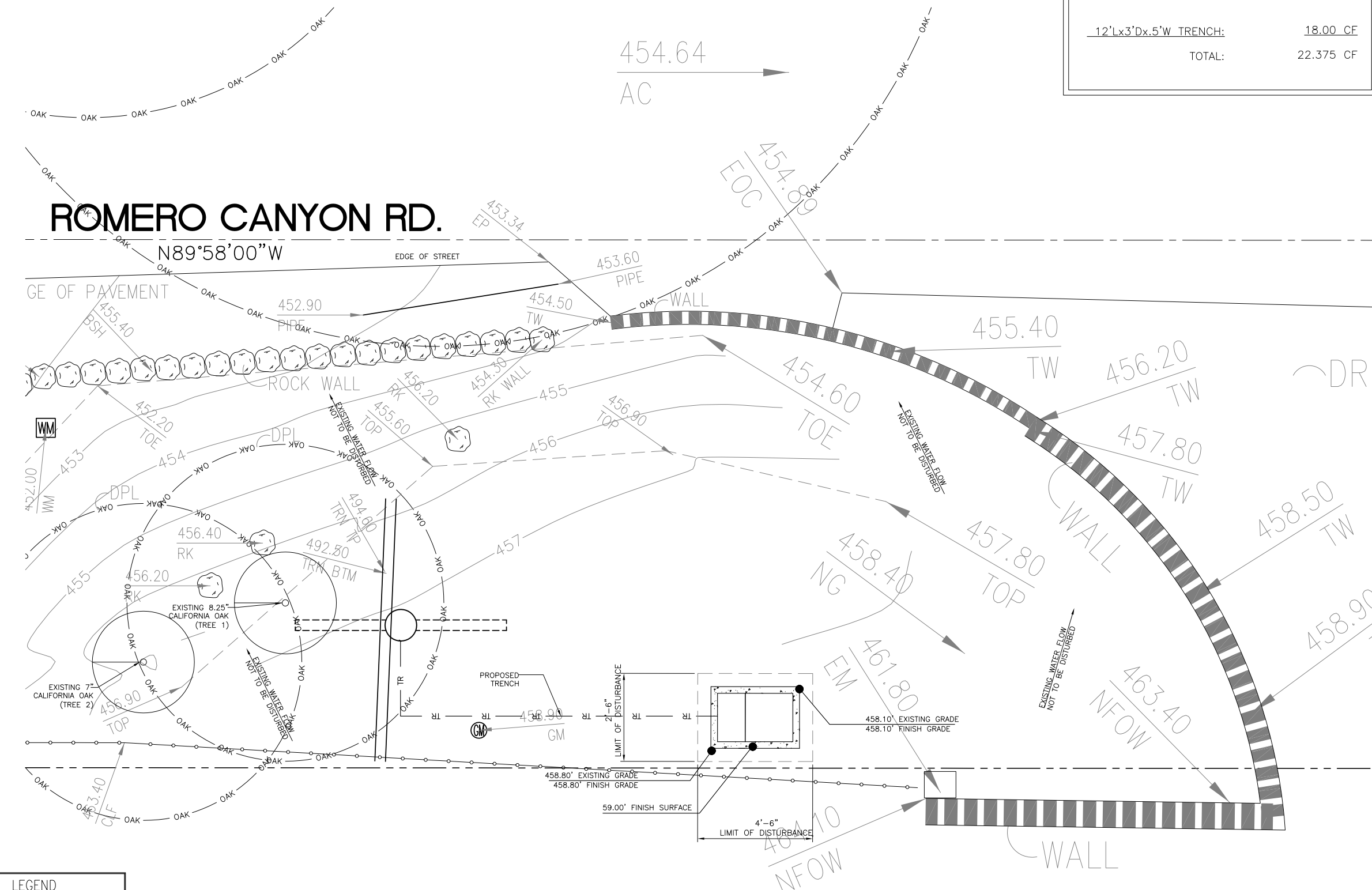
GRADING PLAN

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-3



LEGEND

TREE DRIP LINE	TREE
CAL OAK DRIP LINE	OAK
TRENCH	TR
CAL OAK	⊖

NOTE:
TRENCH TO BE HAND DUG.

Outdoor Omni-directional Antenna

COMBA

OOA-360V06N0-3 VPoI, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

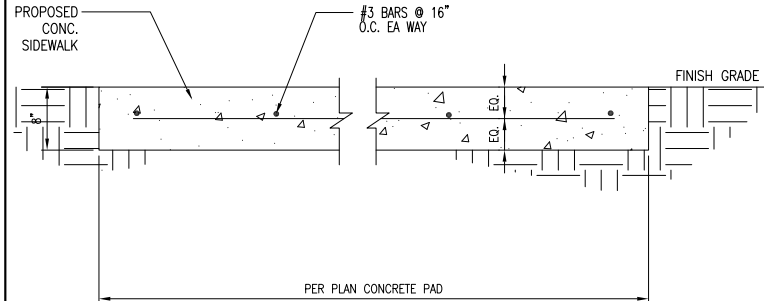
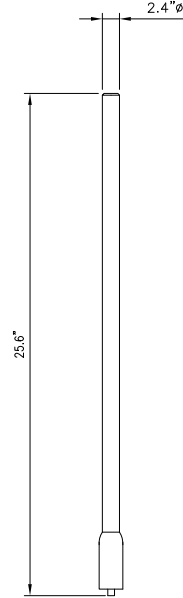
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply		115 or 230
Mains power, Vac		
Power consumption, Watts		1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz		Uplink: 698 to 716/776 to 787
		Downlink: 728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz		Uplink: 824 to 849
		Downlink: 869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz		Uplink: 1850 to 1915
		Downlink: 1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



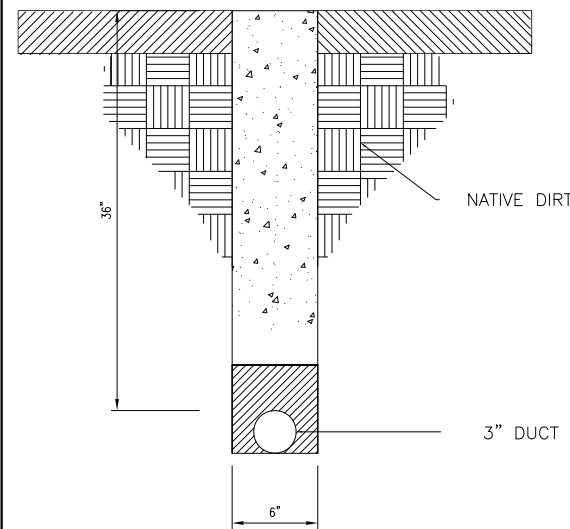
ION-M7P/7P/85P/19P

Noise figure, dB		I/P3 optimized: +10 max.
		Noise figure optimized: +6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)		817 x 245 x 218 (32.2 x 9.6 x 8.6)
-------------------------------	--	---------------------------------------

Weight, kg (lb)		40 (88.2)
-----------------	--	-----------



* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

N.T.S.

4

PEDESTAL SPECIFICATIONS

N.T.S.

5

POWER
MMOE - Telecom
Multi Mount Outdoor Enclosure



- > Compact enclosure design provides ideal fit for locations where aesthetics are important
- > Light-weight powder coated aluminum construction offers superior corrosion resistant properties
- > Large sun shield, reduces solar heat loading inside the cabinet
- > 180° stainless steel piano-hinged door (with two locking open positions) make installation and maintenance easy and convenient
- > Thermostat controlled filtered fan cooling and louvered vents ensure reliable operation in high temperature environments
- > Various mounting options (including pole mount) make this highly versatile in space constrained mobile broadband applications

Alpha's Multi Mount Outdoor Enclosure (MMOE) - Telecom, is a cost-effective and versatile enclosure ideal for space constrained locations. The Multi Mount can be pole, post, wall or pedestal mounted and can accommodate Alpha's FXM UPO and up to four AlphaCell™ 5500L or 1000 GDL front terminal batteries. With a small form factor, the Multi Mount is the perfect choice for locations where confined space necessitates creative installation options.

Alpha Multi Mount Outdoor Enclosure - Telecom

Consult your Alpha representative for full configurations

Mechanical	Enclosure options
Dimensions: 267H x 550W x 45TD mm: 2714 x 5508 x 1827 inch: 27.14 x 55.08 x 18.27 Weight: 27.2kg (60lbs) Construction: High strength corrosion resistant aluminum Finish: Powder coated white color Equipment space: EIA standard 19" 8RU space with one battery shelf Cable entrance: Bottom of enclosure: 1 x 1" diameter knock-out (21W trade size) 4 x 1.125" diameter knock-out (1W trade size) Hinge type: Stainless steel piano hinge Door prep: Aluminum rid. 2 locking open positions Door latch: Ballbeats 21/2 compression lock with passlock brooket <td>Mounting: Pole, post, wall, or pedestal (please specify if post used to concrete at time of order)</td>	Mounting: Pole, post, wall, or pedestal (please specify if post used to concrete at time of order)
Agency Compliance	System Options
UL listing: 09-15 COME NEMA rating: 3R	<ul style="list-style-type: none"> Alpha AC distribution panel Alpha universal automatic transfer switch Alpha universal generator transfer switch AlphaGuard battery balancer Battery heater mats Transient voltage surge suppression device
HVAC Specifications	
Cooling: Thermostat controlled active fan, 100 cfm or better. On at 80° (100°) Off at 52° (50°) Equipped with spin barrier	



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4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



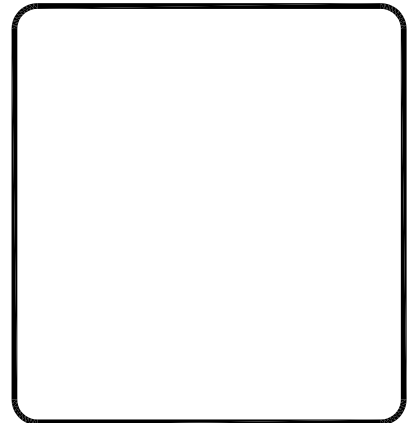
CONNELL DESIGN GROUP, LLC

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CLIENT:



STAMP:



SITE INFO:

SITE NAME:	MON20
	VERIZON MONTECITO-MON20
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID D1 R.O.W. SOUTH SIDE OF ROMERO CANYON RD. (ADJACENT TO 850 ROMERO CANYON) SANTA BARBARA, CA 93108
	LAT: 34.44327 LONG: -119.59602

SHEET TITLE:



DETAILS

DRAWING INFO:

DRAWN BY:	FC
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SHEET NUMBER:



D-1

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0	FXC 03/15/2013	ISSUED FOR REVIEW
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4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

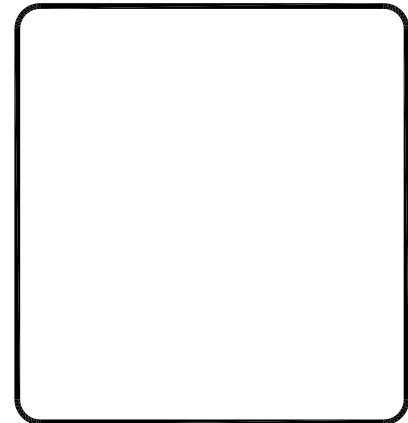
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

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MON20
VERIZON MONTECITO-MON20

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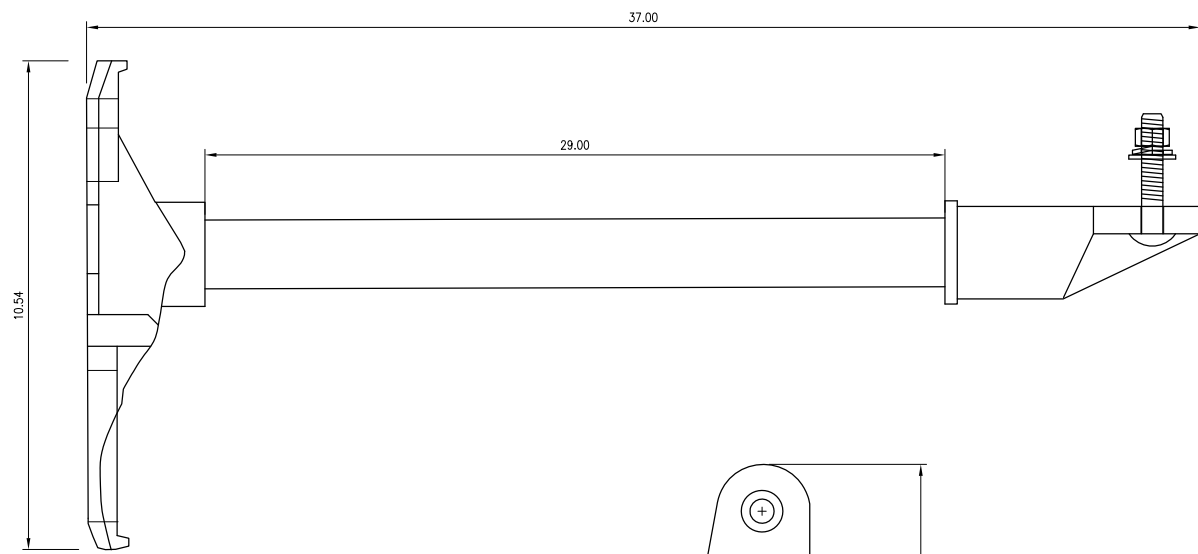
DETAILS

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DRAWN BY:
FC

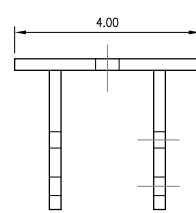
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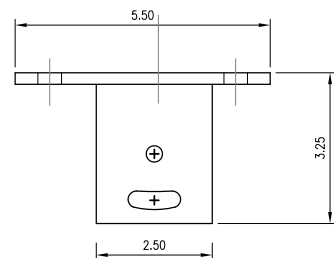


COMM SPACE BRACKET

FRONT VIEW

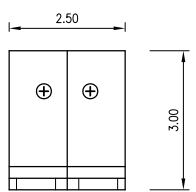


TOP VIEW

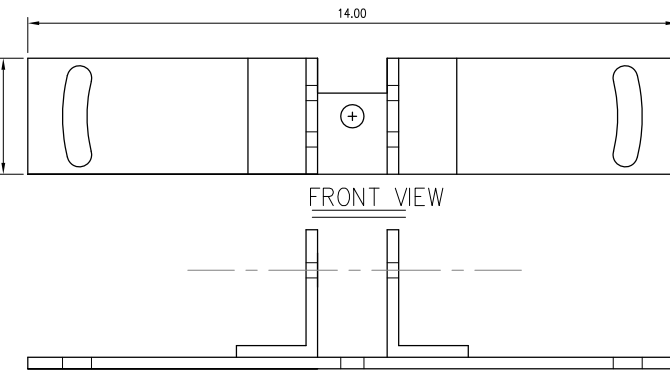


TOP VIEW

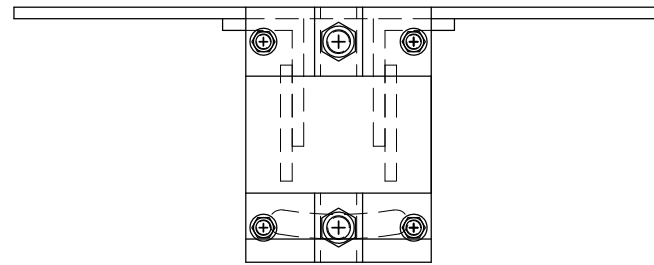
SIDE VIEW



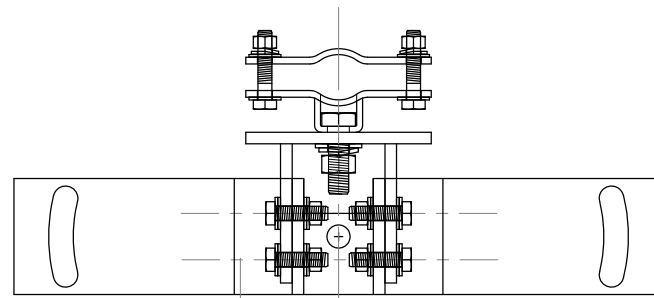
FRONT VIEW



TOP VIEW



FRONT VIEW



AlphaCell
General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes):	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	Extreme	Extreme
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

Specifications²

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 90Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	9.48/215.4	9.48/215.4	9.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.5/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.63/173.4
Operating Temperature Range:	-40 to 71°C	-40 to 71°C	-40 to 71°C
Discharge:	(-40 to 150°F)	(-40 to 150°F)	(-40 to 150°F)
Charge (with temp compensation):	-23 to 60°C	-23 to 60°C	-23 to 60°C
Float Charging Voltage (Vdc):	(-9.4 to 140°F)	(-9.4 to 140°F)	(-9.4 to 140°F)
AC Ripple Charger:	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8

Notes:
¹Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
²Runtime is calculated using a 25A DC constant current load.
³Dimensions at top of battery.
⁴See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

AC/DC Load	4A	6A	8A	10A	12A	15A	20A	25A	30A	35A	40A	45A	50A
220 GXL	330	195	195	230	195	195	230	195	195	230	195	195	195
3 batteries	500	450	300	320	260	280	230	200	180	180	180	180	180
4 batteries	700	625	540	444	360	340	320	280	260	260	260	260	260
6 batteries	1050	870	820	700	625	540	520	490	460	410	370	320	320
8 batteries	1400	1180	1050	900	850	750	720	680	620	570	510	450	450
10 batteries	1750	1480	1320	1100	1020	850	820	780	720	670	610	550	550
12A	220	195	195	230	195	195	230	195	195	230	195	195	195
2 batteries	140	132	115	119	108	92	101	89	77	87	78	69	69
4 batteries	210	187	165	169	151	132	144	128	112	124	111	99	99
6 batteries	330	301	264	275	245	214	236	209	188	204	182	160	160
8 batteries	470	410	367	385	341	299	329	293	250	288	255	223	223
10 batteries	630	530	470	480	440	391	427	375	324	329	293	258	258
15A	220	195	195	230	195	195	230	195	195	230	195	195	195
2 batteries	140	132	115	119	108	92	101	89	77	87	78	69	69
4 batteries	210	187	165	169	151	132	144	128	112	124	111	99	99
6 batteries	330	301	264	275	245	214	236	209	188	204	182	160	160
8 batteries	470	410	367	385	341	299	329	293	250	288	255	223	223
10 batteries	630	530	470	480	440	391	427	375	324	329	293	258	258
20A	220	195	195	230	195	195	230	195	195	230	195	195	195
2 batteries	140	132	115	119	108	92	101	89	77	87	78	69	69
4 batteries	210	187	165	169	151	132	144	128	112	124	111	99	99
6 batteries	330	301	264	275	245	214	236	209	188	204	182	160	160
8 batteries	470	410	367	385	341	299	329	293	250	288	255	223	223
10 batteries	630	530	470	480	440	391	427	375	324	329	293	258	258
30A	220	195	195	230	195	195	230	195	195	230	195	195	195
2 batteries	140	132	115	119	108	92	101	89	77	87	78	69	69
4 batteries	210	187	165	169	151	132	144	128	112	124	111	99	99
6 batteries	330	301	264	275	245	214	236	209	188	204	182	160	160
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10 batteries	630	530	470	480	440	391	427	375	324	329	293	258	258

*Above calculations based on an AC load with a 90 cosine plant power factor.
 For contact information visit www.alpha.com

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USA	Tel: +1 360 647 2360 Fax: +1 360 671 4936	Russia Tel: +7 495 525 9044 Fax: +7 495 516 1343	United Kingdom Tel: +44 1273 661110 Fax: +44 1273 659070	Contact USA office	Contact USA office

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ENGINEER/CONSULTANT:
 Civil Engineer

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 26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
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CLIENT:

CROWN CASTLE
 NG WEST, INC.

STAMP:

SITE INFO:
 SITE NAME: MON20
 VERIZON MONTECITO-MON20
 SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
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 SANTA BARBARA, CA 93108
 LAT: 34.44327
 LONG: -119.59602

SHEET TITLE:
DETAILS

DRAWING INFO:
 DRAWN BY:
 FC

SHEET NUMBER:
D-3

GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

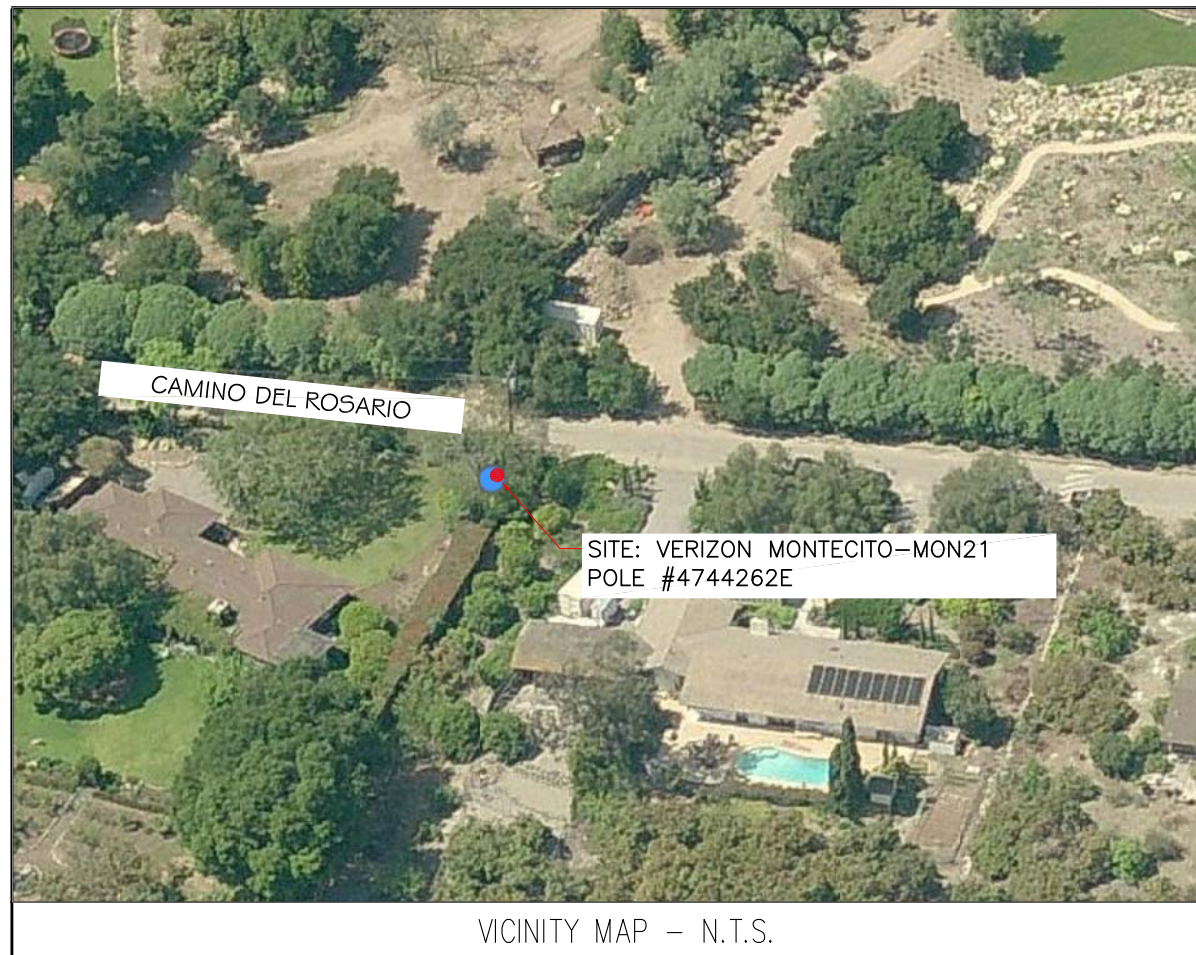
PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI DIRECTIONAL ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT VAULT AT BASE OF EXISTING POLE
3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 8
SITE PLAN	A-1 - SHEET 2 OF 8
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 8
GRADING PLAN	A-3 - SHEET 4 OF 8
DETAILS	D-1 - SHEET 5 OF 8
DETAILS	D-2 - SHEET 6 OF 8
DETAILS	D-3 - SHEET 7 OF 8
DETAILS	D-4 - SHEET 8 OF 8

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON21

R.O.W. SOUTH SIDE OF CAMINO DEL ROSARIO (ADJACENT TO 2245 CAMINO DEL ROSARIO) SANTA BARBARA, CA 93108



SYMBOLS, LINETYPES AND HATCH PATTERNS			
	GROUND BUS BAR		LIGHT POLE
	MECH. GRND. CONN.		FOUNDATION
	CADWELD		SPOT ELEV.
	ELECTRIC BOX		SET POINT
	TELEPHONE BOX		REVISION
	EXISTING SERVICE POLE		DETAIL REF.
	SIDEWALK FLAG		ELEVATION REF.
	EX. MANHOLE		SECTION REF.
			PROP./LEASE LINE
			MATCH LINE
			WORK POINT
			TELE. CONDUIT
			CENTERLINE
			ELECT. CONDUIT
			COAXIAL CABLE
			MYERS PEDESTAL
			VAULT STANDARD 2'x3'
			STEEL POLE

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 - FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 - FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
 - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 - ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" x 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF CAMINO DEL ROSARIO (ADJACENT TO 2245 CAMINO DEL ROSARIO) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/21/2013	ISSUED FOR REVIEW
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ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON21
VERIZON MONTECITO-MON21

SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
R.O.W. SOUTH SIDE OF CAMINO DEL ROSARIO
(ADJACENT TO 2245 CAMINO DEL ROSARIO)
SANTA BARBARA, CA 93108
LAT: 34.44083°
LONG: -119.59919°

SHEET TITLE:

TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1

COORDINATES:

LATITUDE 34°26'26.89" N
LONGITUDE 119°35'56.93" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE CENTERLINE OF CAMINO DEL ROSARIO, BEING SOUTH 85°52'23" EAST PER PARCEL MAP NO. 14,409, P.M.B. 53/3-5, RECORDS OF SANTA BARBARA COUNTY.

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 400"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 400" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 402.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 18, 2013

SURVEYORS NOTE:

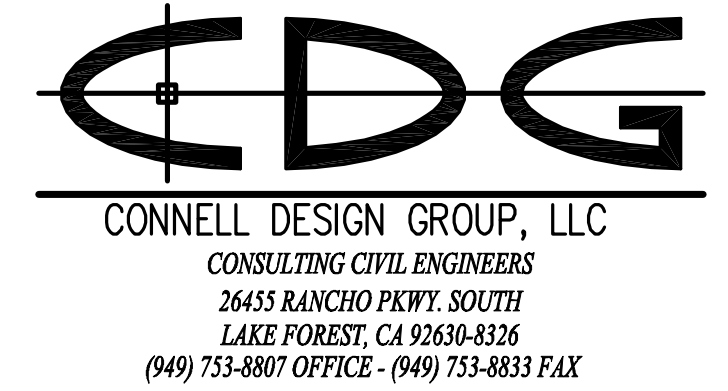
THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

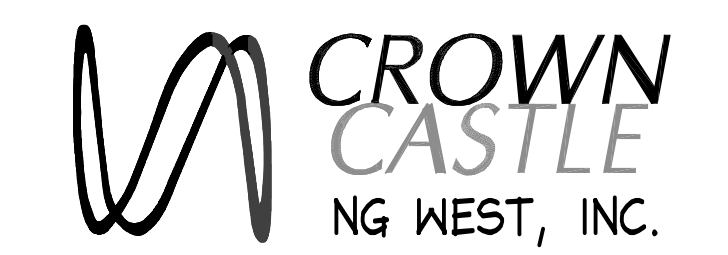
THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/29/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:



STAMP:



SITE INFO:

SITE NAME:
MON21
VERIZON MONTECITO-MON21

SITE ADDRESS:
R.O.W. SOUTH SIDE OF OF CAMINO DEL ROSARIO
(ADJACENT TO 2245 CAMINO DEL ROSARIO)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME: MON21	DRAWN BY: MDL	DATE: 07/29/13
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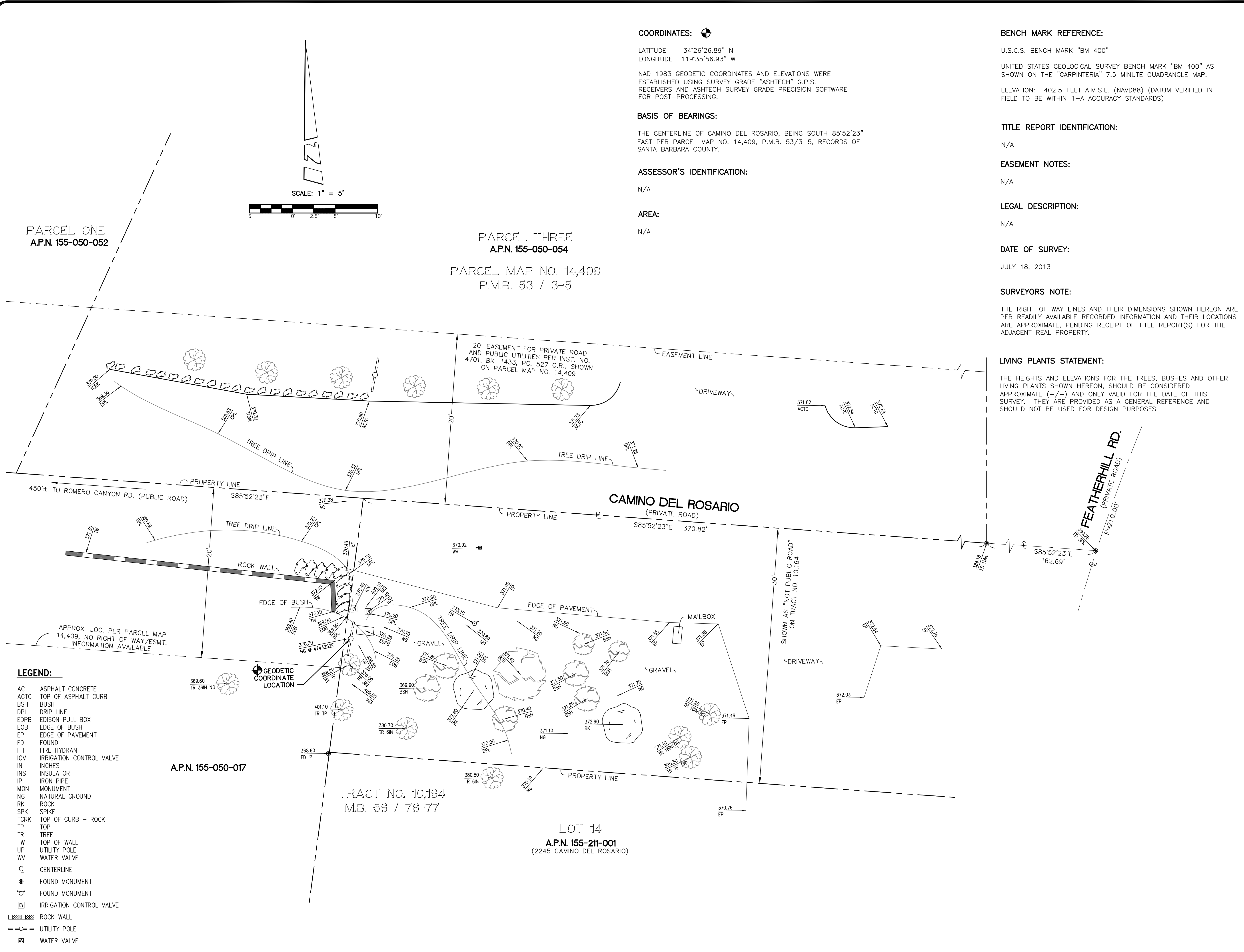
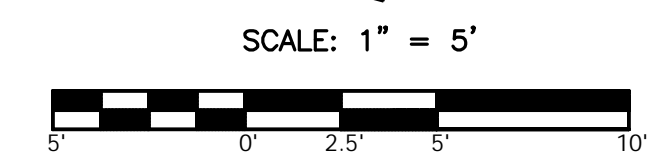
SHEET NUMBER:

1 OF 1 | C-1

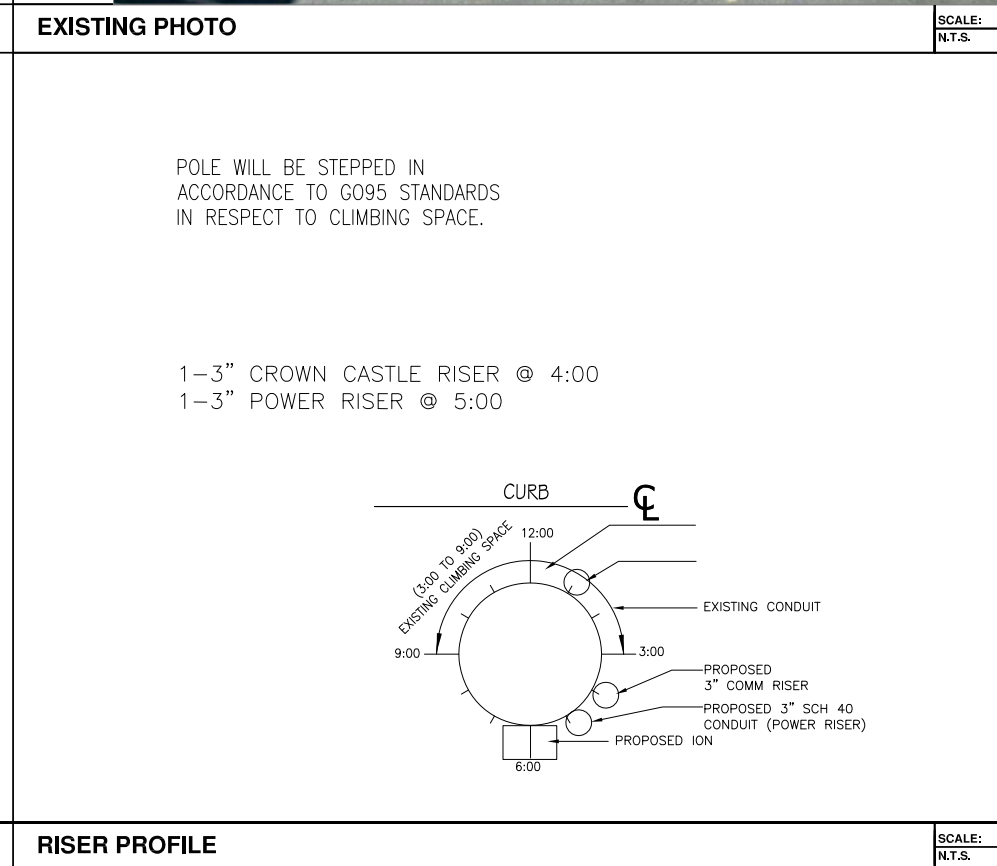
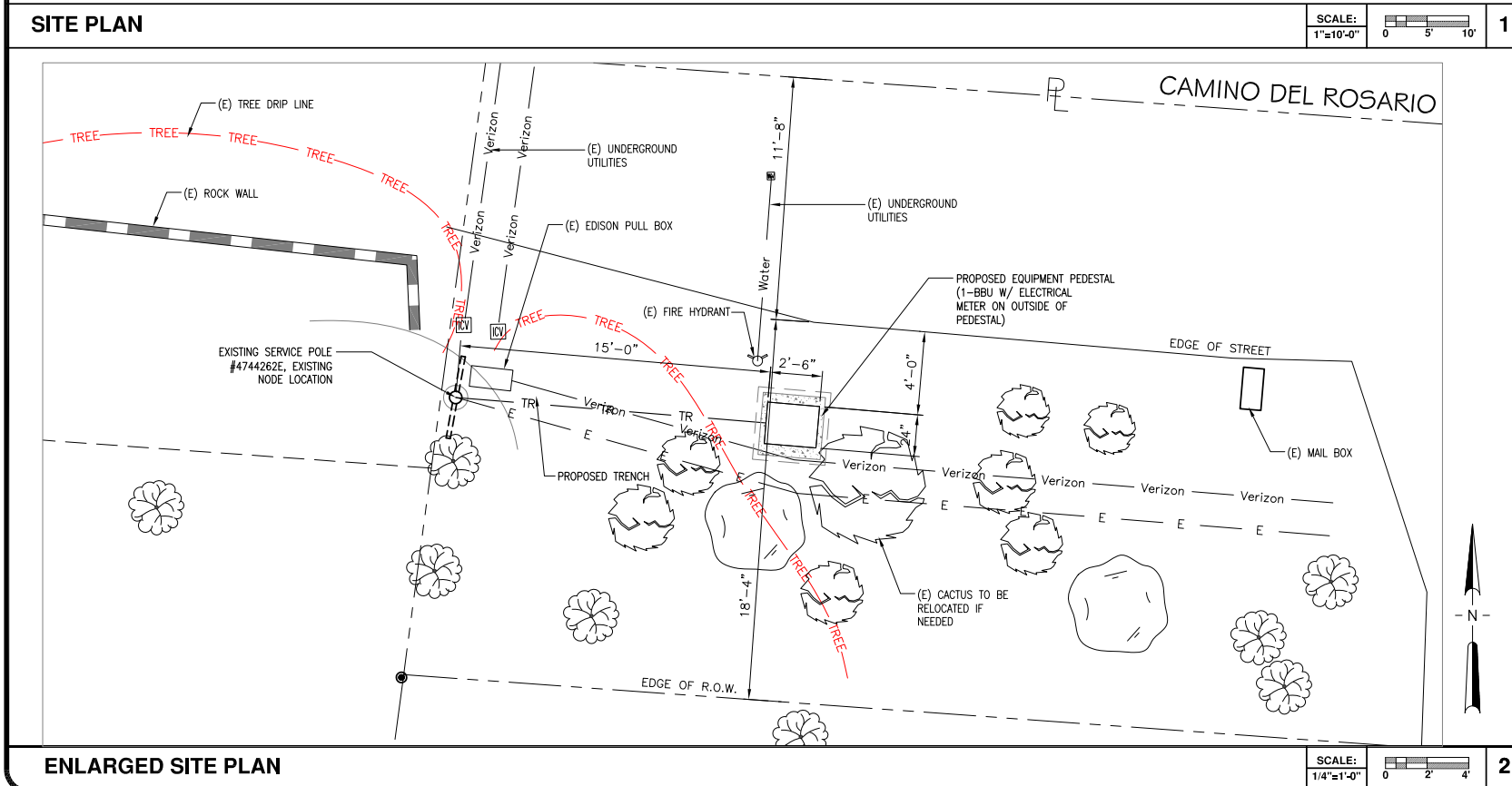
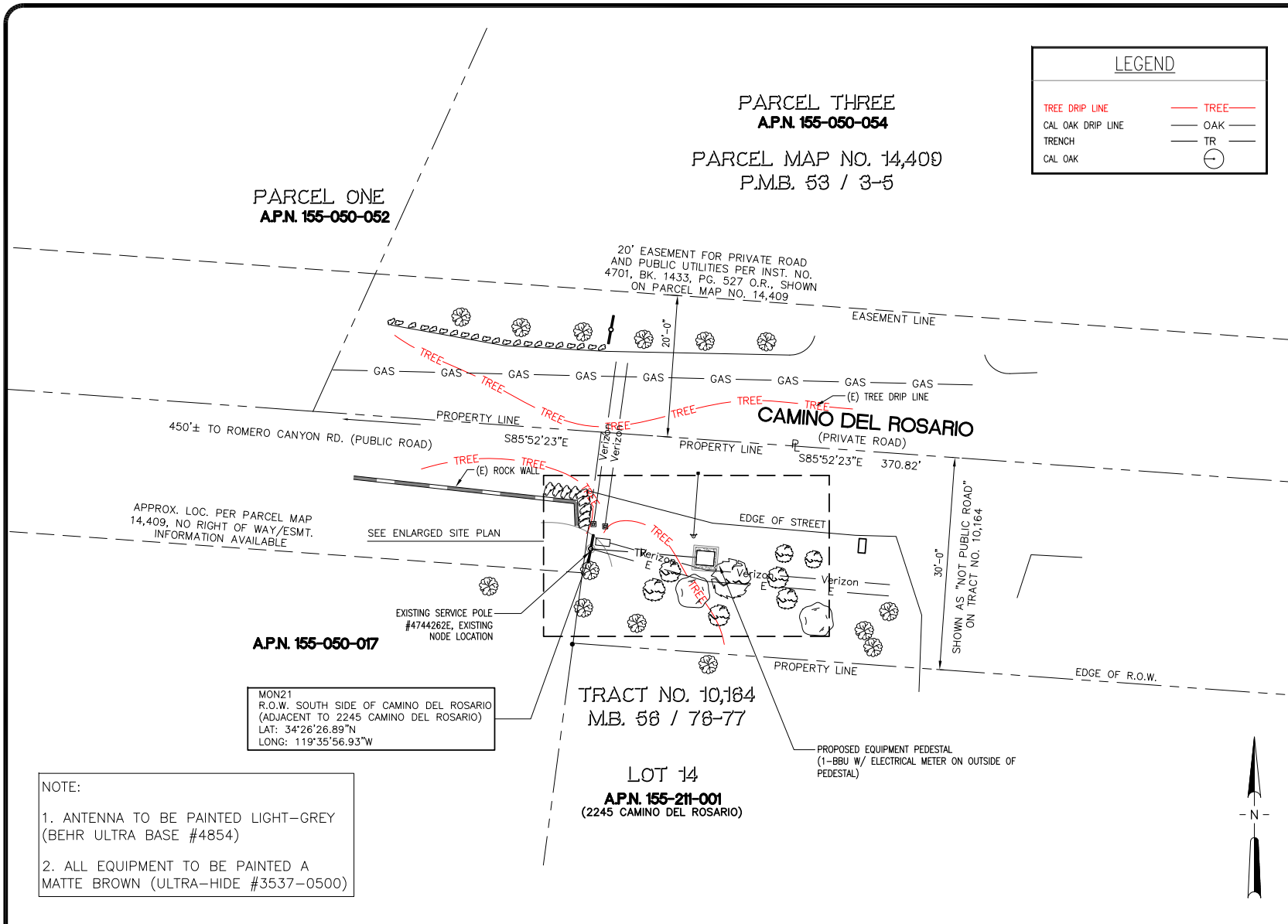
PARCEL ONE
A.P.N. 155-050-052

PARCEL THREE
A.P.N. 155-050-054

PARCEL MAP NO. 14,409
P.M.B. 53 / 3-5



- LEGEND:**
- AC ASPHALT CONCRETE
 - ACTC TOP OF ASPHALT CURB
 - BSH BUSH
 - DPL DRIP LINE
 - EDPB EDISON PULL BOX
 - EOB EDGE OF BUSH
 - EP EDGE OF PAVEMENT
 - FD FOUND
 - FH FIRE HYDRANT
 - ICV IRRIGATION CONTROL VALVE
 - IN INCHES
 - INS INSULATOR
 - IP IRON PIPE
 - MON MONUMENT
 - NG NATURAL GROUND
 - RK ROCK
 - SPK SPIKE
 - TCRK TOP OF CURB - ROCK
 - TP TOP
 - TR TREE
 - TW TOP OF WALL
 - UP UTILITY POLE
 - WV WATER VALVE
 - CENTERLINE
 - FOUND MONUMENT
 - FOUND MONUMENT
 - ⊠ IRRIGATION CONTROL VALVE
 - ▨ ROCK WALL
 - UTILITY POLE
 - ⊠ WATER VALVE



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ENGINEER/CONSULTANT:

Civil Engineer

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CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME:
MON21
VERIZON MONTECITO-MON21

SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
R.O.W. SOUTH SIDE OF CAMINO DEL ROSARIO
(ADJACENT TO 2245 CAMINO DEL ROSARIO)
SANTA BARBARA, CA 93108
LAT: 34.44083°
LONG: -119.59919°

SHEET TITLE:
SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

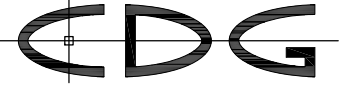
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FC

SHEET NUMBER:
A-1

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ENGINEER/CONSULTANT:

Civil Engineer



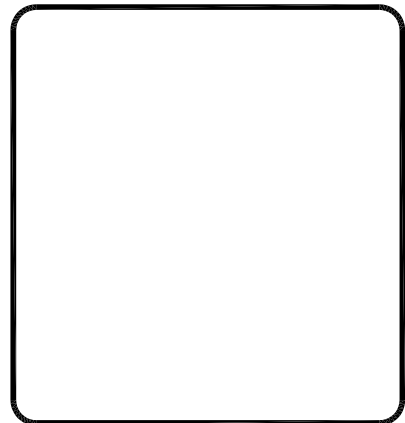
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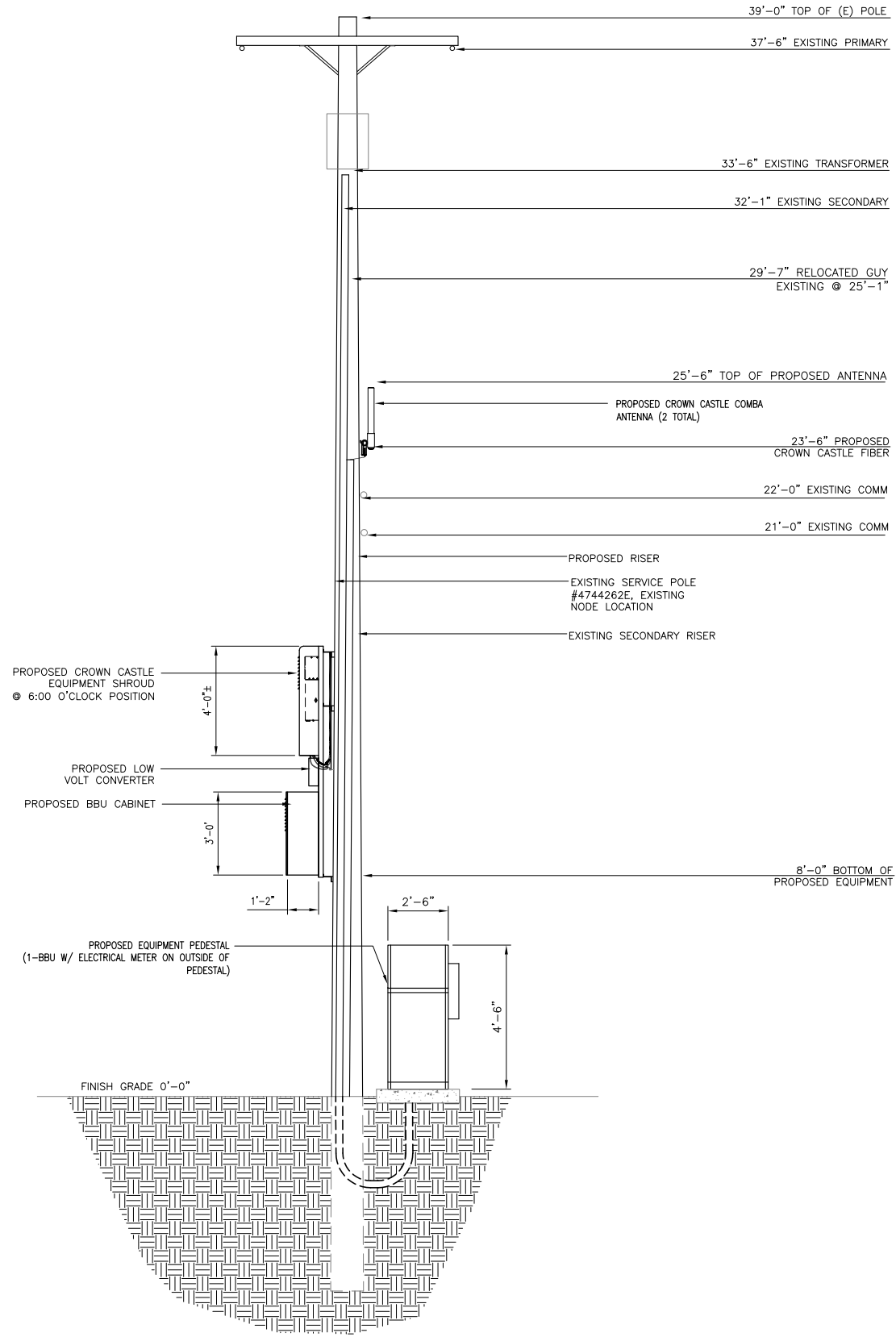
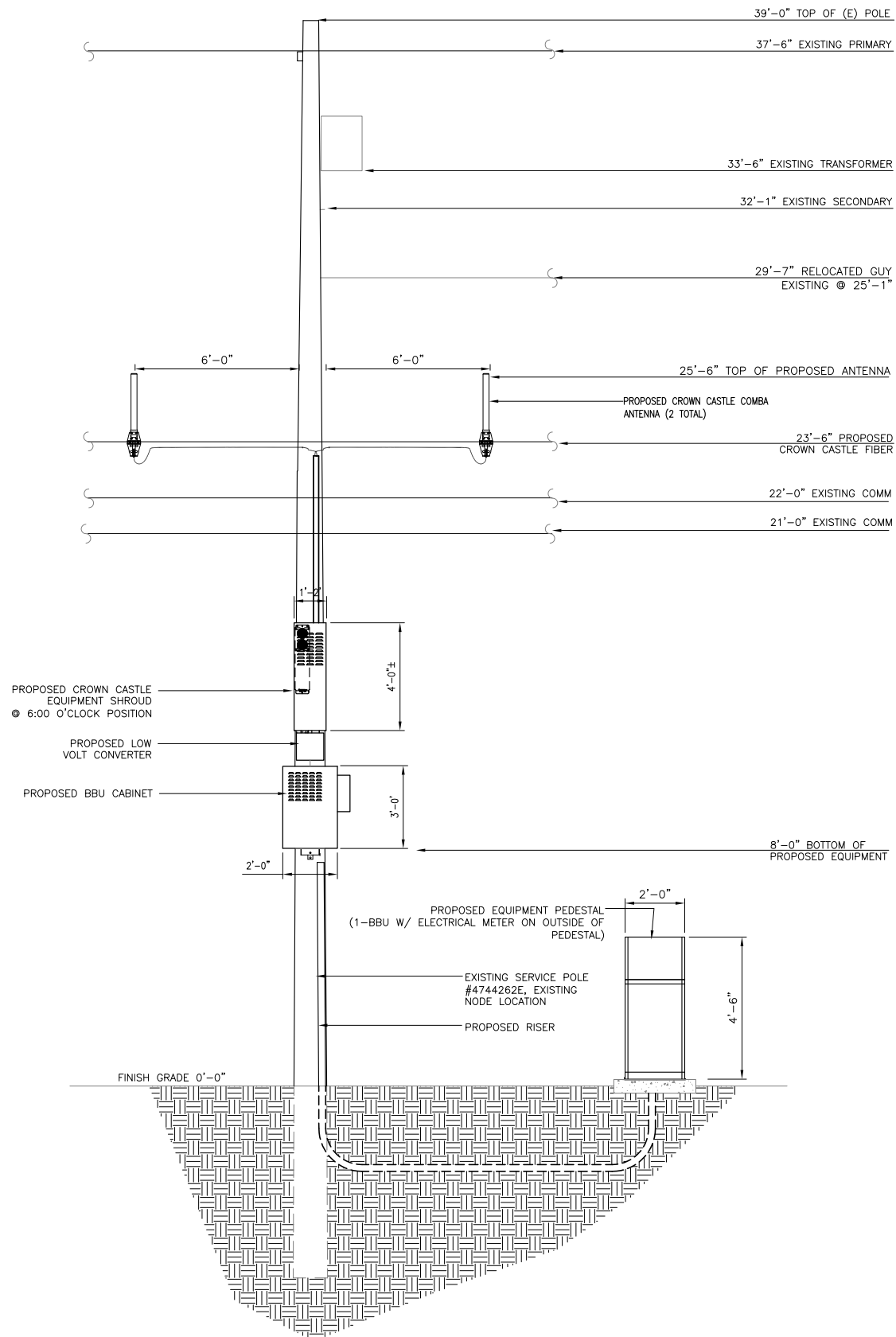
ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-2



NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

Outdoor Omni-directional Antenna



OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

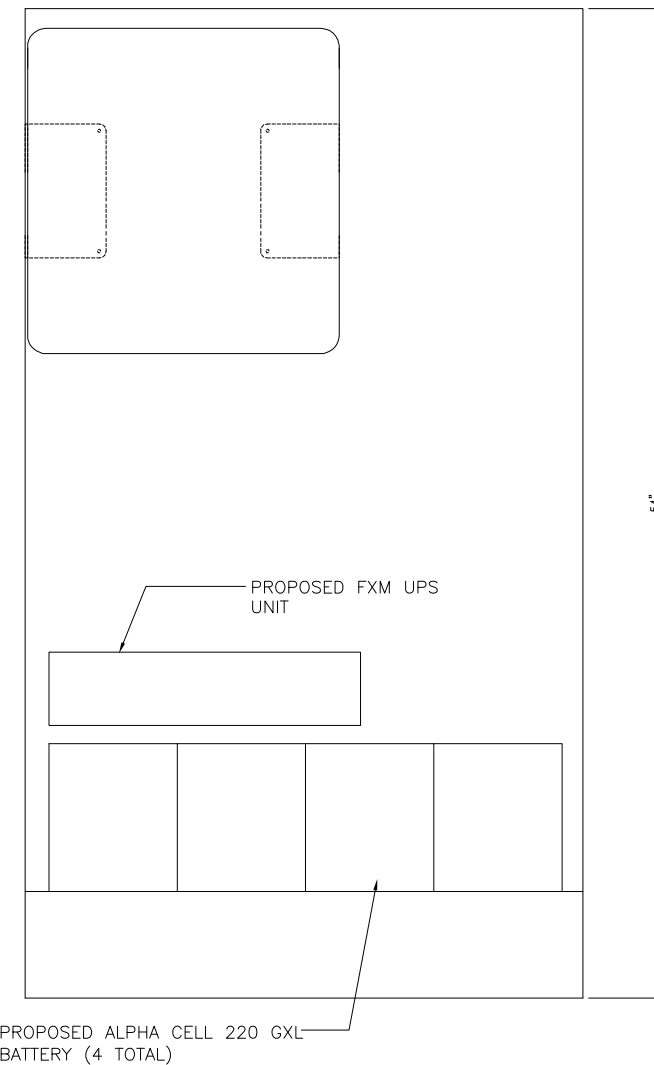
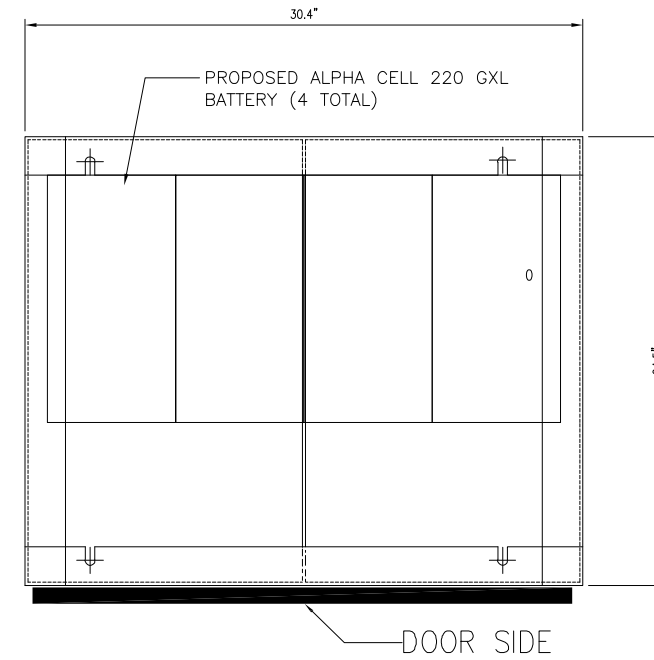
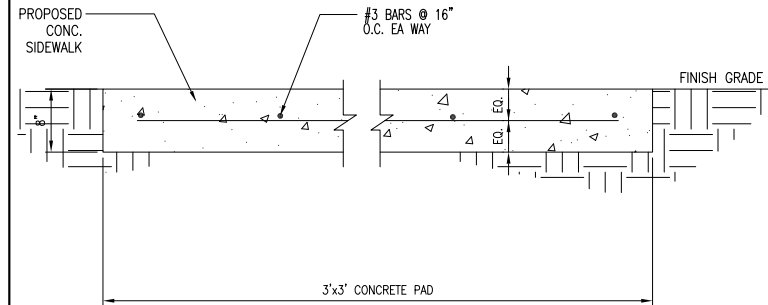
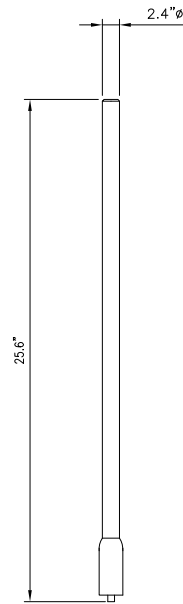
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature	°C	-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



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(949) 753-8807 OFFICE • (949) 753-8833 FAX

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SHEET TITLE:

DETAILS

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DRAWN BY:
FC

SHEET NUMBER:

D-1

ANTENNA SPECIFICATIONS

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	Uplink	698 to 716/776 to 787
	Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	Uplink	824 to 849
	Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz	Uplink	1850 to 1915
	Downlink	1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



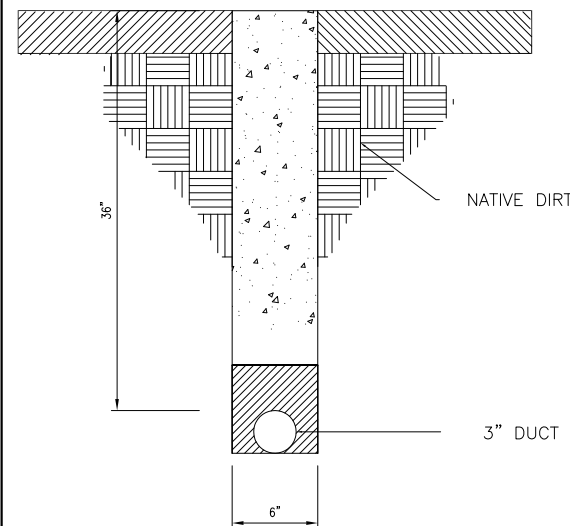
ION-M7P/7P/85P/19P

Noise figure, dB	ICP3 optimized	+10 max.
	Noise figure optimized	+6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)	40 (88.2)
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* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

N.T.S.

4

EQUIPMENT PEDESTAL

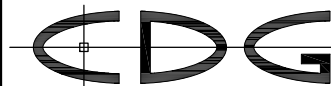
N.T.S.

5

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Civil Engineer

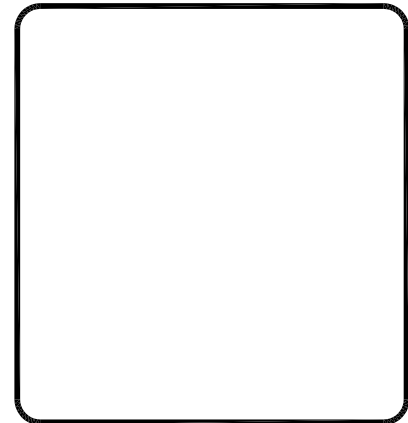


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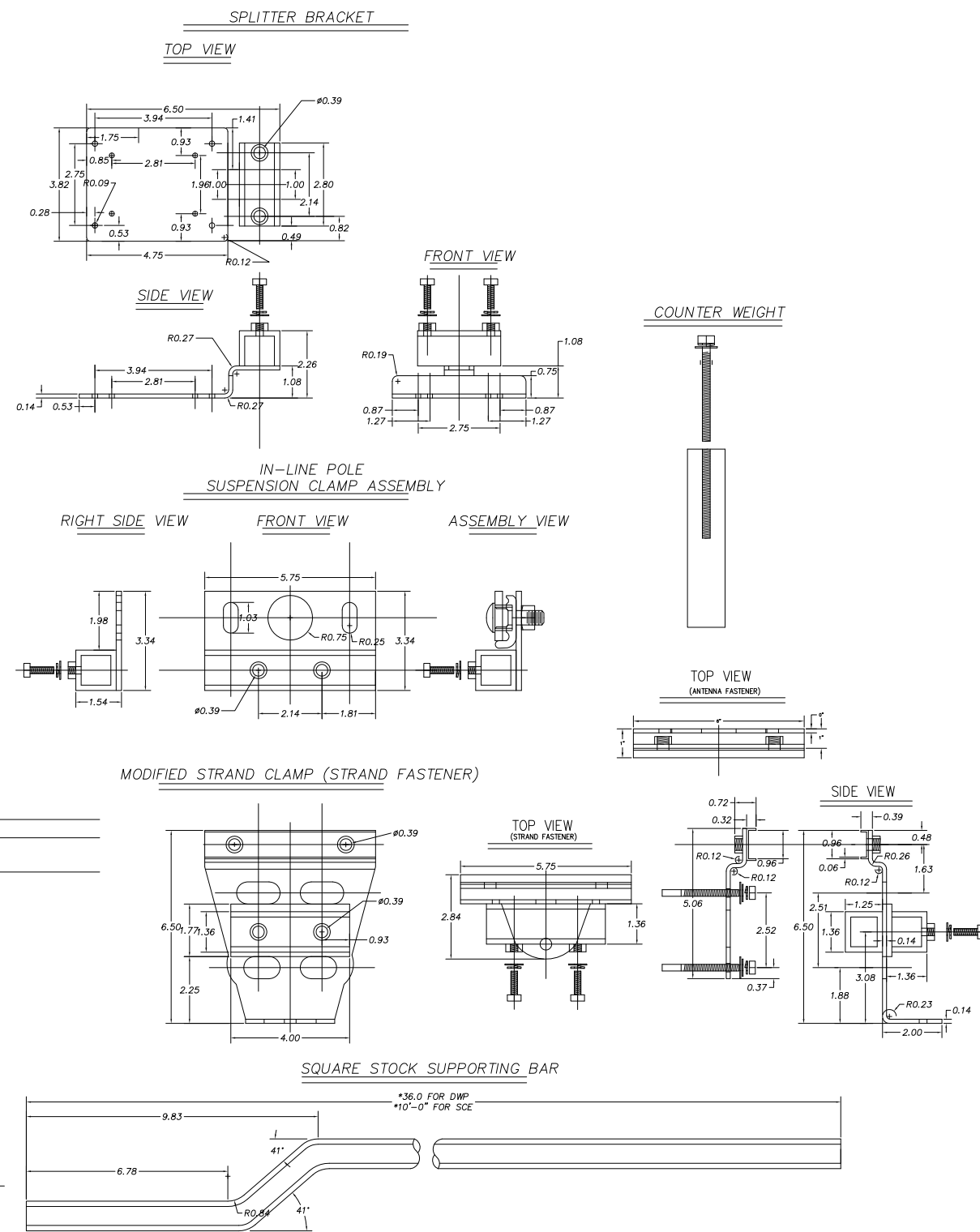
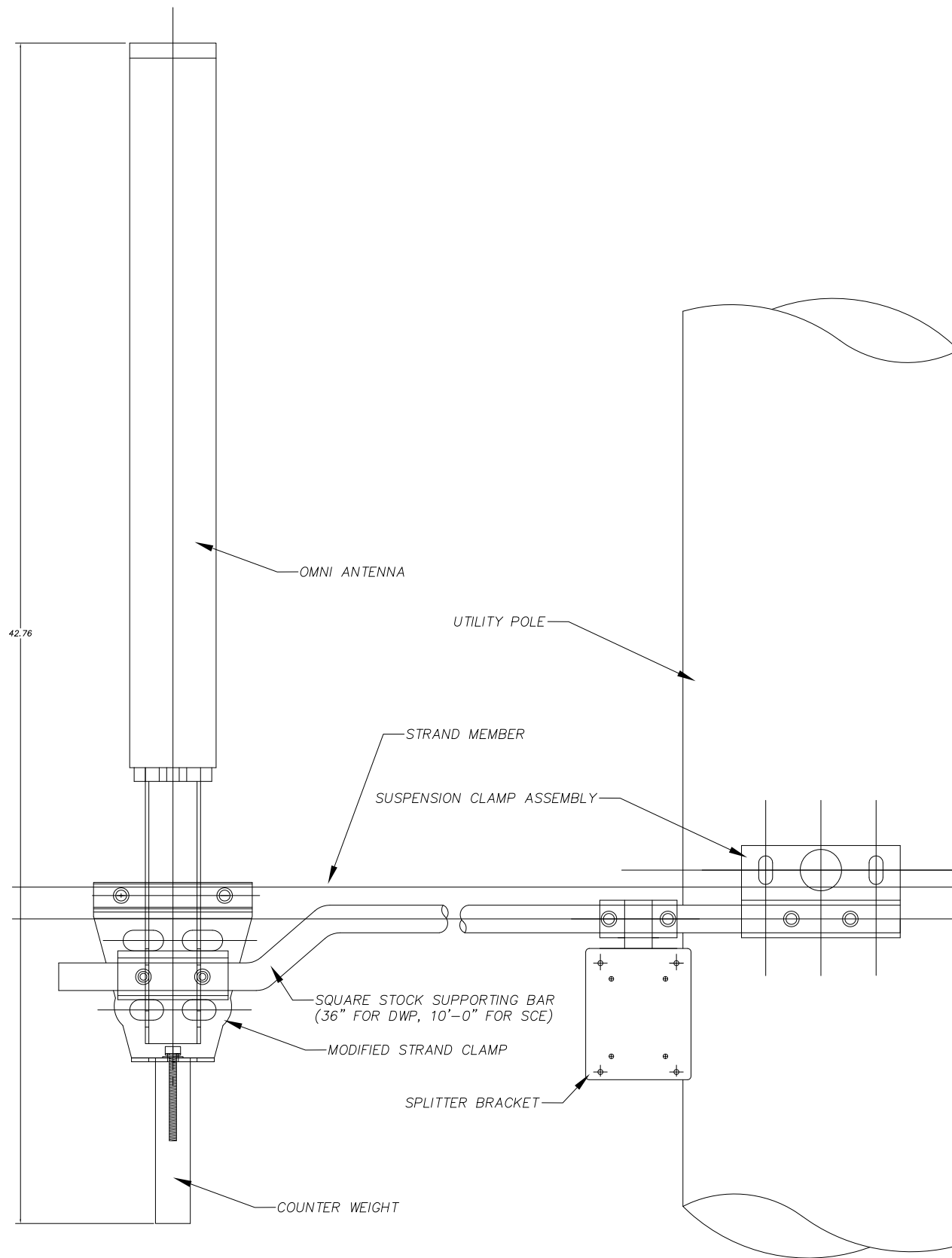
DETAILS

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FC

SHEET NUMBER:

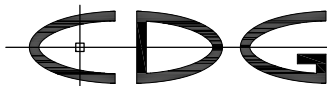
D-2



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/21/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
2	FXC 11/06/2013	ISSUED FOR FINAL
3	FXC 03/08/2013	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

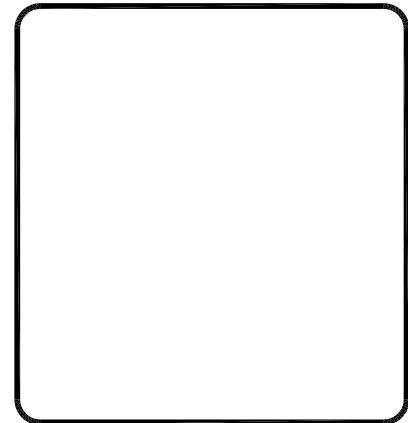


CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON21
VERIZON MONTECITO-MON21
SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
R.O.W. SOUTH SIDE OF CAMINO DEL ROSARIO
(ADJACENT TO 2245 CAMINO DEL ROSARIO)
SANTA BARBARA, CA 93108
LAT: 34.44083°
LONG: -119.59919°

SHEET TITLE:

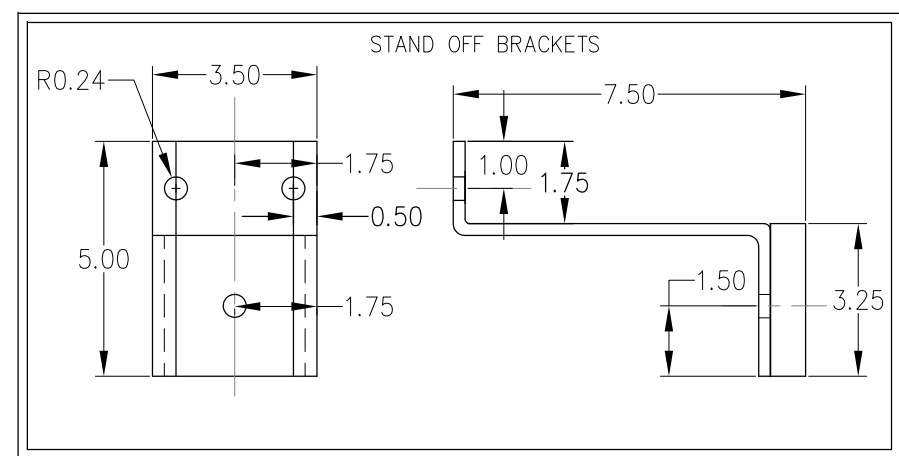
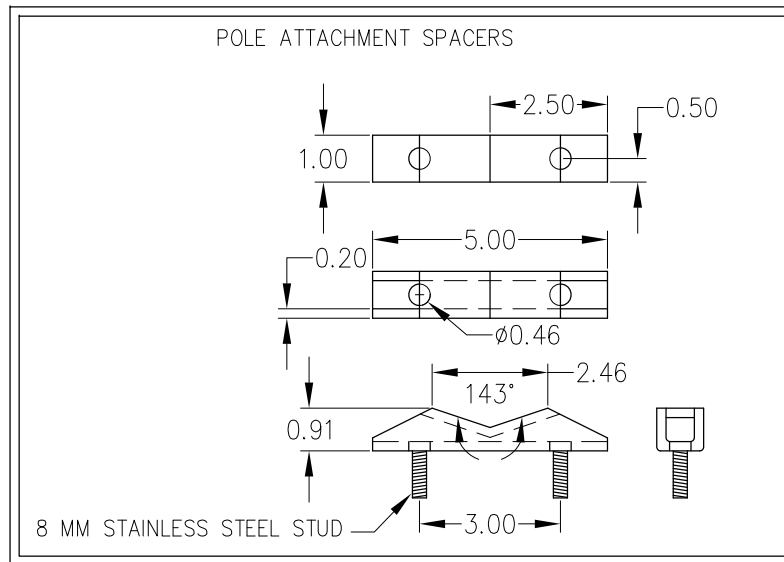
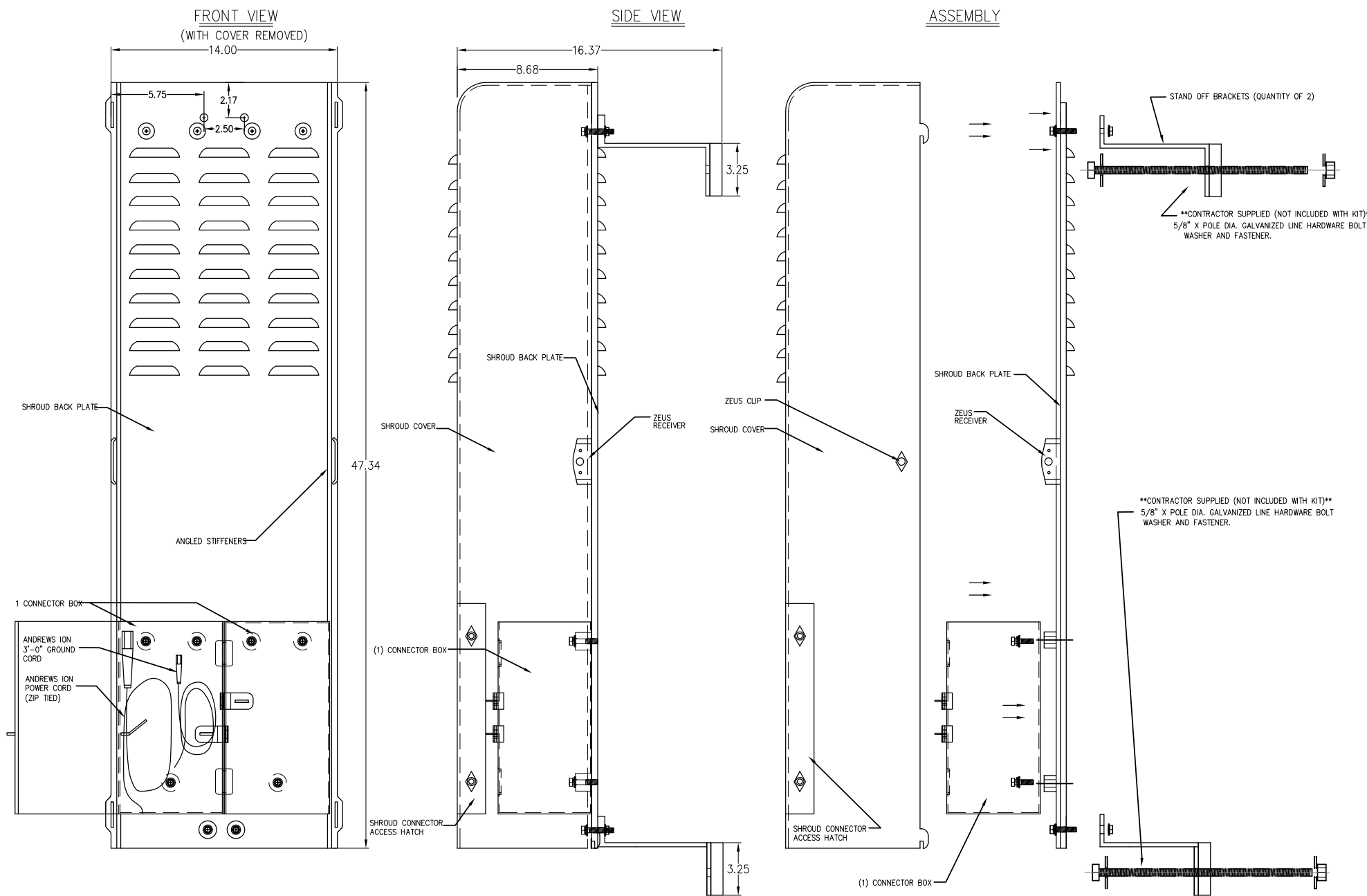
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3



AlphaCell
General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended	Extended	Extended
Runtime (minutes) ² :	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	Extreme	Extreme
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

Specifications⁴

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes) ² :	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	109Ah	100Ah	96
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm) ³ :	13.42/340.9	13.42/340.9	12.5/317.8
Depth (in/mm) ³ :	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Float Charging Voltage (Vdc):	13.5 to 13.9	13.5 to 13.9	13.5 to 13.9
AC Ripple Charger:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

Notes:

¹ Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.

² Runtime calculated using a 25A DC constant current load

³ Dimensions at top of battery

⁴ See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

>M290Vac@	4A	6A	8A	10A
Battery Runtime:	220	195	165	165
3 batteries:	508	453	396	320
4 batteries:	701	625	546	444
6 batteries:	1091	978	853	701
8 batteries:	1487	1338	1188	980
9 batteries:	1886	159	1322	1091

>M290Vac@	12A	14A	16A	18A
Battery Runtime:	220	195	165	165
3 batteries:	149	132	115	119
4 batteries:	210	187	163	169
6 batteries:	339	301	264	275
8 batteries:	478	419	367	385
9 batteries:	538	479	419	440

>M260Vac@	4A	6A	8A	10A
Battery Runtime:	220	195	165	165
3 batteries:	798	712	622	508
4 batteries:	1091	978	853	701
6 batteries:	1686	1519	1322	1091
8 batteries:	2288	2067	1798	1487
9 batteries:	2590	2345	2037	1686

>M260Vac@	12A	14A	16A	18A
Battery Runtime:	220	195	165	165
3 batteries:	242	215	188	196
4 batteries:	339	301	264	275
6 batteries:	538	479	419	440
8 batteries:	741	660	577	607
9 batteries:	843	753	658	692

* Above calculations based on an AC load with a .90 cable plant power factor.

For contact information visit www.alpha.com

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USA	Tel: +1 360 647 2960 Fax: +1 360 671 4936	Russia Tel: +7 495 925 9644 Fax: +7 495 916 1349	United Kingdom Tel: +44 1279 501110 Fax: +44 1279 659070		

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049-297-10-B002 (06/09)

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ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

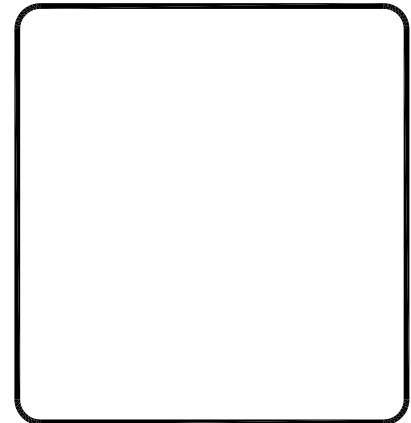
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SHEET TITLE:

DETAILS

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FC

SHEET NUMBER:

D-4

GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON22 R.O.W. SOUTH SIDE OF VELOZ DR (ADJACENT TO 2135 VELOZ DR) SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'x3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			

SYMBOLS, LINETYPES AND HATCH PATTERNS

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI DIRECTIONAL ANTENNA ON EXISTING UTILITY POLE
2. EQUIPMENT SHROUD & BBU ON EXISTING POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 8
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 8
SITE PLAN	A-1 - SHEET 3 OF 8
PROPOSED ELEVATIONS	A-2 - SHEET 4 OF 8
GRADING PLAN	A-3 - SHEET 5 OF 8
DETAILS	D-1 - SHEET 6 OF 8
DETAILS	D-2 - SHEET 7 OF 8
DETAILS	D-3 - SHEET 8 OF 8

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 - FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 - FOR INLETS LOCATED ON SLOPES ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
 - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 - ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" x 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF VELOZ DR (ADJACENT TO 2125 VELOZ DR) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

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4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

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(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON22m1
VERIZON MONTECITO-MON22m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
R.O.W. SOUTH SIDE OF VELOZ DR
(ADJACENT TO 2165 VELOZ DR)
SANTA BARBARA, CA 93108
LAT: 34.441587
LONG: -119.602992

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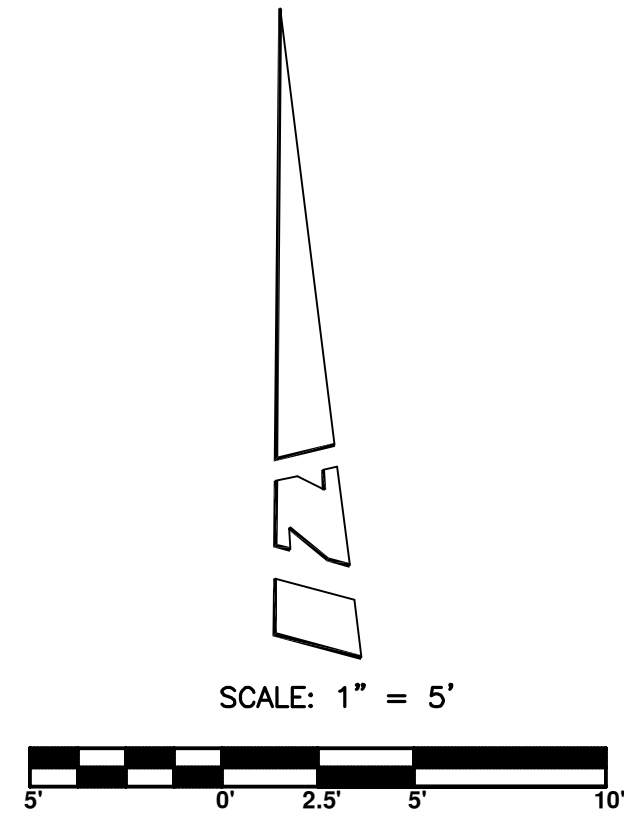
TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1



COORDINATES:
 LATITUDE 34°26'30.47" N
 LONGITUDE 119°36'16.00" W
 NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTECH" G.P.S. RECEIVERS AND ASHTECH SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:
 THE CENTERLINE OF VELOZ DR. BEING SOUTH 80°25'30" EAST PER RECORD OF SURVEY, COUNTRYSIDE ADDITION, R.M. 34 / 94, RECORDS OF SANTA BARBARA COUNTY.

ASSESSOR'S IDENTIFICATION:
 N/A

AREA:
 N/A

BENCH MARK REFERENCE:
 U.S.G.S. BENCH MARK "BM 269"
 UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 269" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.
 ELEVATION: 271.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:
 N/A

EASEMENT NOTES:
 N/A

LEGAL DESCRIPTION:
 N/A

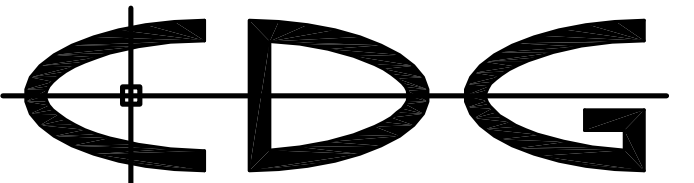
DATE OF SURVEY:
 JULY 11, 2013

SURVEYORS NOTE:
 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.

LIVING PLANTS STATEMENT:
 THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

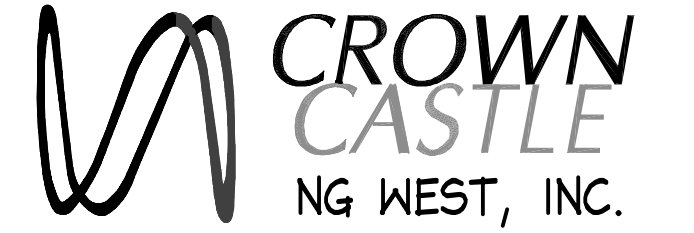
REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/18/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



CONNELL DESIGN GROUP, LLC
 CONSULTING CIVIL ENGINEERS
 26455 RANCHO PKWY. SOUTH
 LAKE FOREST, CA 92650-8326
 (949) 753-8807 OFFICE - (949) 753-8833 FAX

SITE BUILDER:




CROWN CASTLE
 NG WEST, INC.

SURVEYOR:



BERT HAZE
 AND ASSOCIATES, INC.
 LAND SURVEYING & MAPPING
 3188 AIRWAY AVENUE, SUITE K1
 COSTA MESA, CALIFORNIA 92626
 714 557-1567 OFFICE
 714 557-1568 FAX
 JN. 706.235

STAMP:



SITE INFO:

SITE NAME:
 MON22
 VERIZON MONTECITO-MON22

SITE ADDRESS:
 R.O.W. SOUTH SIDE OF VELOZ DR.
 (ADJACENT TO 2135 VELOZ DR.)
 SANTA BARBARA, CA 93108

SHEET TITLE:

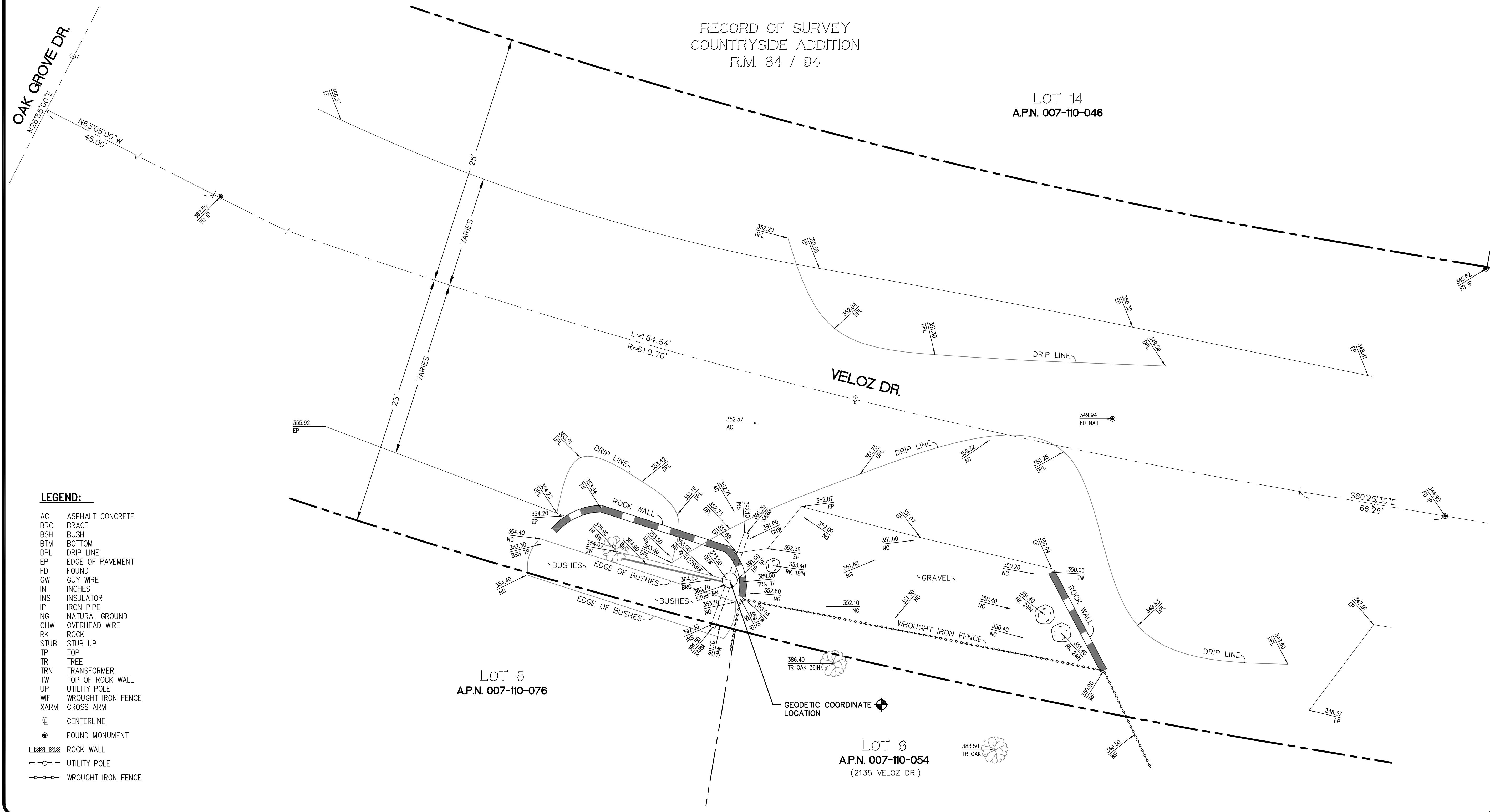
TOPOGRAPHIC SURVEY

DRAWING INFO:

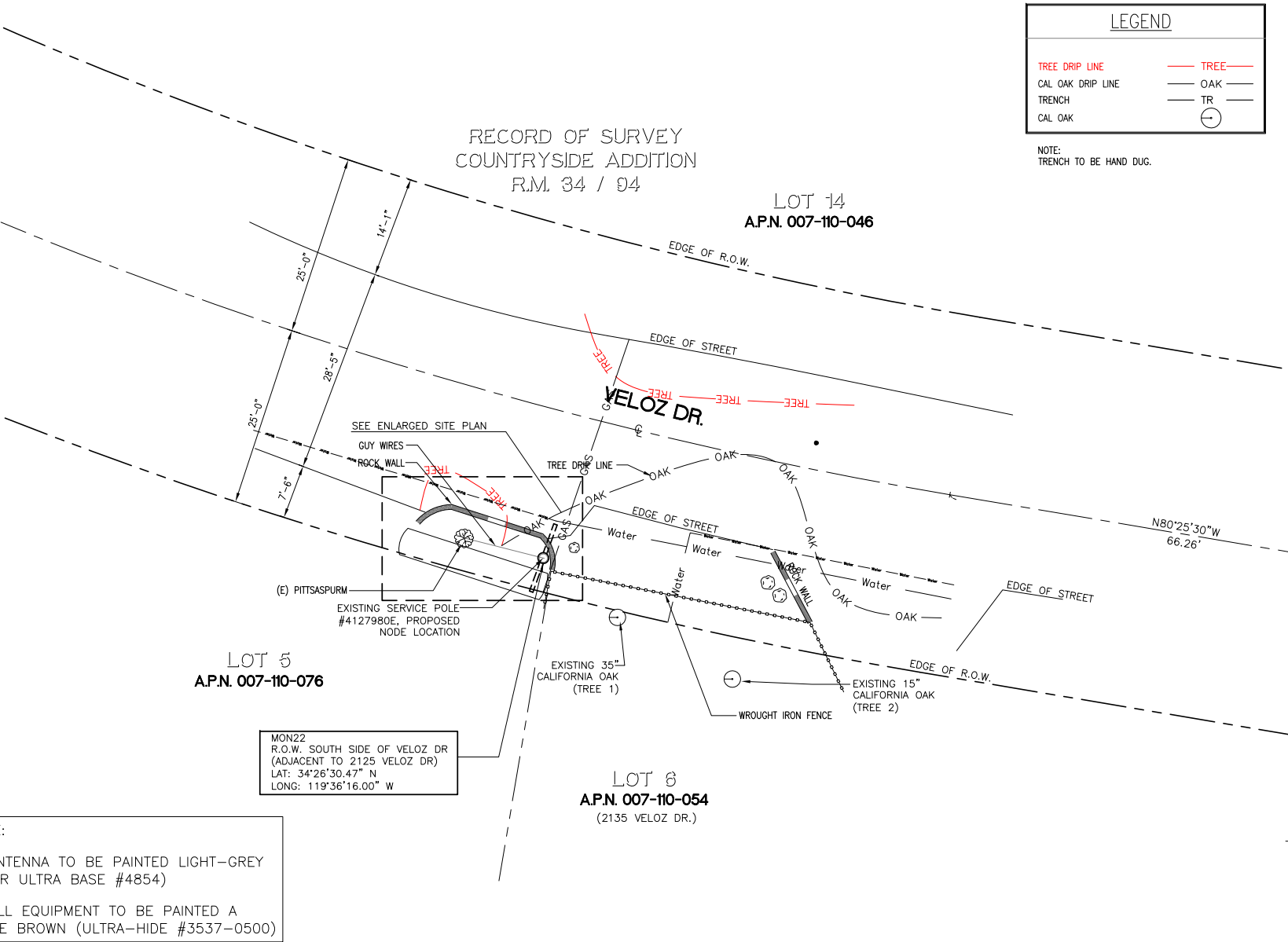
DWG. NAME: MON22	DRAWN BY: MDL	DATE: 07/18/13
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SHEET NUMBER:

1 OF 1	C-1
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- LEGEND:**
- AC ASPHALT CONCRETE
 - BRC BRACE
 - BSH BUSH
 - BTM BOTTOM
 - DPL DRIP LINE
 - EP EDGE OF PAVEMENT
 - FD FOUND
 - CW CUY WIRE
 - IN INCHES
 - INS INSULATOR
 - IP IRON PIPE
 - NG NATURAL GROUND
 - OHW OVERHEAD WIRE
 - RK ROCK
 - STUB STUB UP
 - TP TOP
 - TR TREE
 - TRN TRANSFORMER
 - TW TOP OF ROCK WALL
 - UP UTILITY POLE
 - WF WROUGHT IRON FENCE
 - XARM CROSS ARM
 - CL CENTERLINE
 - FM FOUND MONUMENT
 - ███ ROCK WALL
 - ==○== UTILITY POLE
 - WROUGHT IRON FENCE



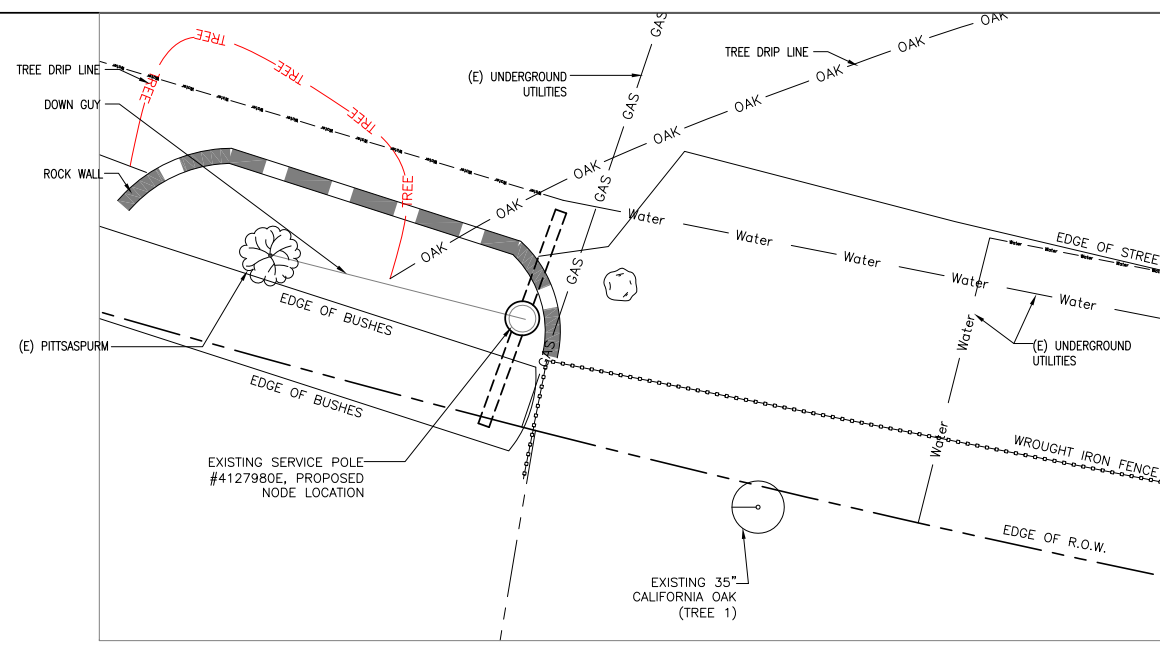
NOTE:
 1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

SITE PLAN

SCALE: 1"=10'-0" 1

EXISTING PHOTO

SCALE: N.T.S. 3



ENLARGED SITE PLAN

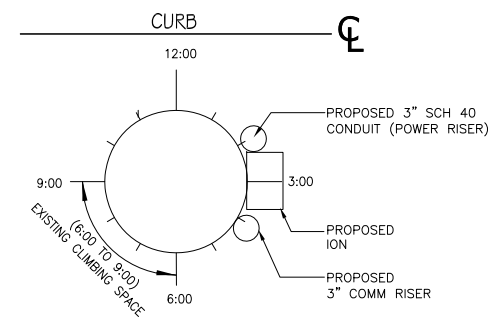
SCALE: 1/4"=1'-0" 2

RISER PROFILE

SCALE: N.T.S. 4

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.

1-3" CROWN CASTLE RISER @ 4:00
 1-3" POWER RISER @ 2:00



REV.	DATE/BY:	REVISION DESCRIPTION:
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2	FXC 11/06/2013	ISSUED FOR FINAL
3	FXC 02/18/2014	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
 CONSULTING CIVIL ENGINEERS
 26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
 (949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
 NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: **MON22m1**
 VERIZON MONTECITO-MON22m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
 R.O.W. SOUTH SIDE OF VELOZ DR
 (ADJACENT TO 2165 VELOZ DR)
 SANTA BARBARA, CA 93108
 LAT: 34.441587
 LONG: -119.602992

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

DRAWING INFO:

DRAWN BY:
 FC

SHEET NUMBER:

A-1

REV:	DATE/BY:	REVISION DESCRIPTION:
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4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



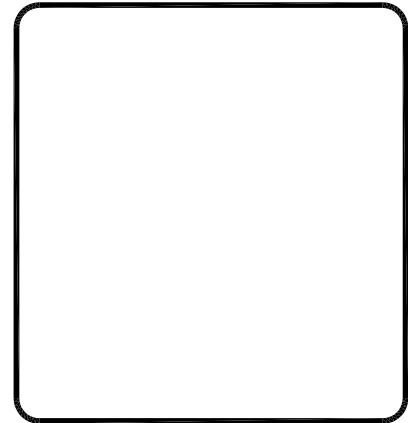
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 733-8807 OFFICE - (949) 733-8833 FAX

CLIENT:



STAMP:



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VERIZON MONTECITO-MON22m1
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
R.O.W. SOUTH SIDE OF VELOZ DR
(ADJACENT TO 2165 VELOZ DR)
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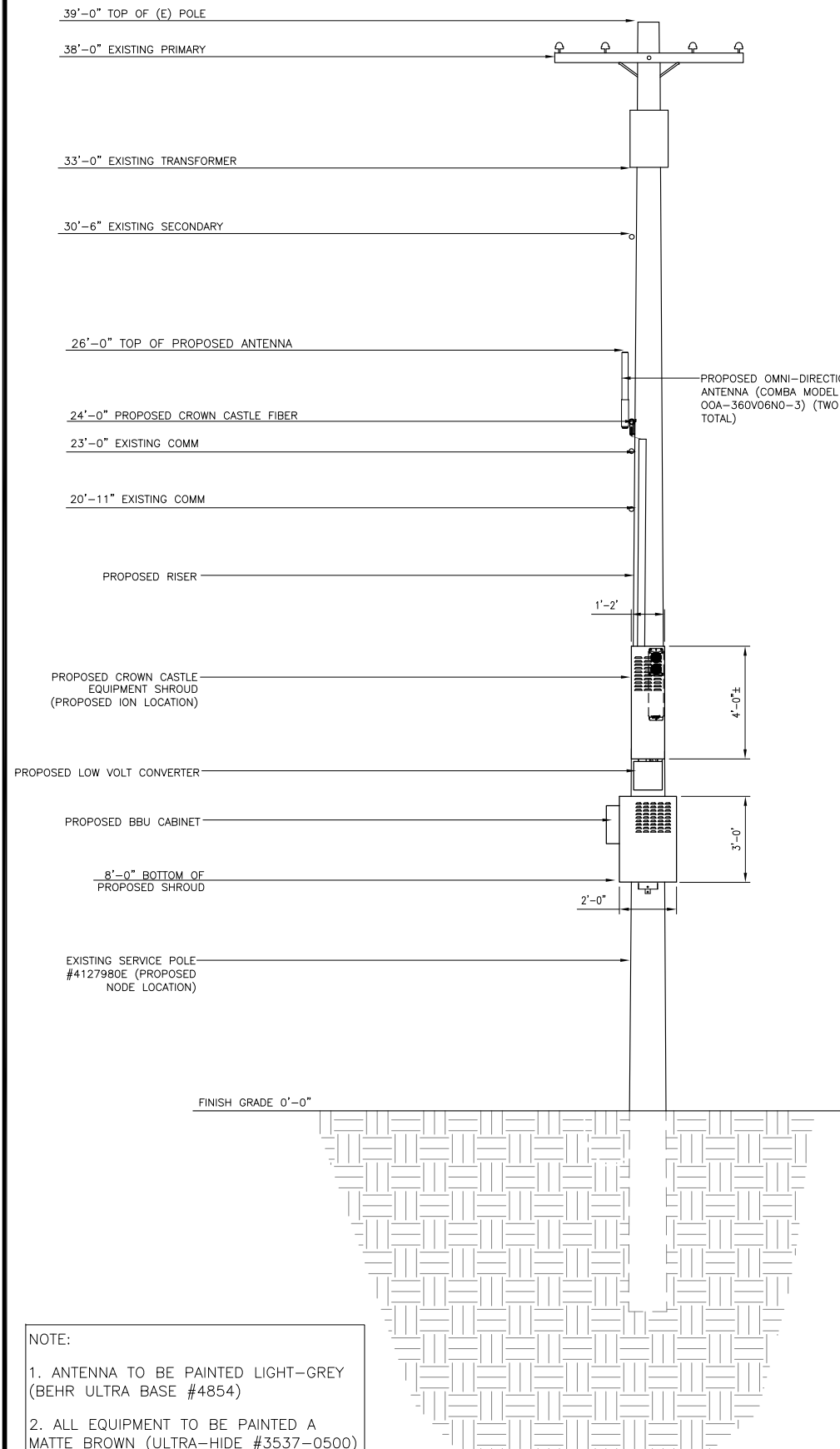
ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

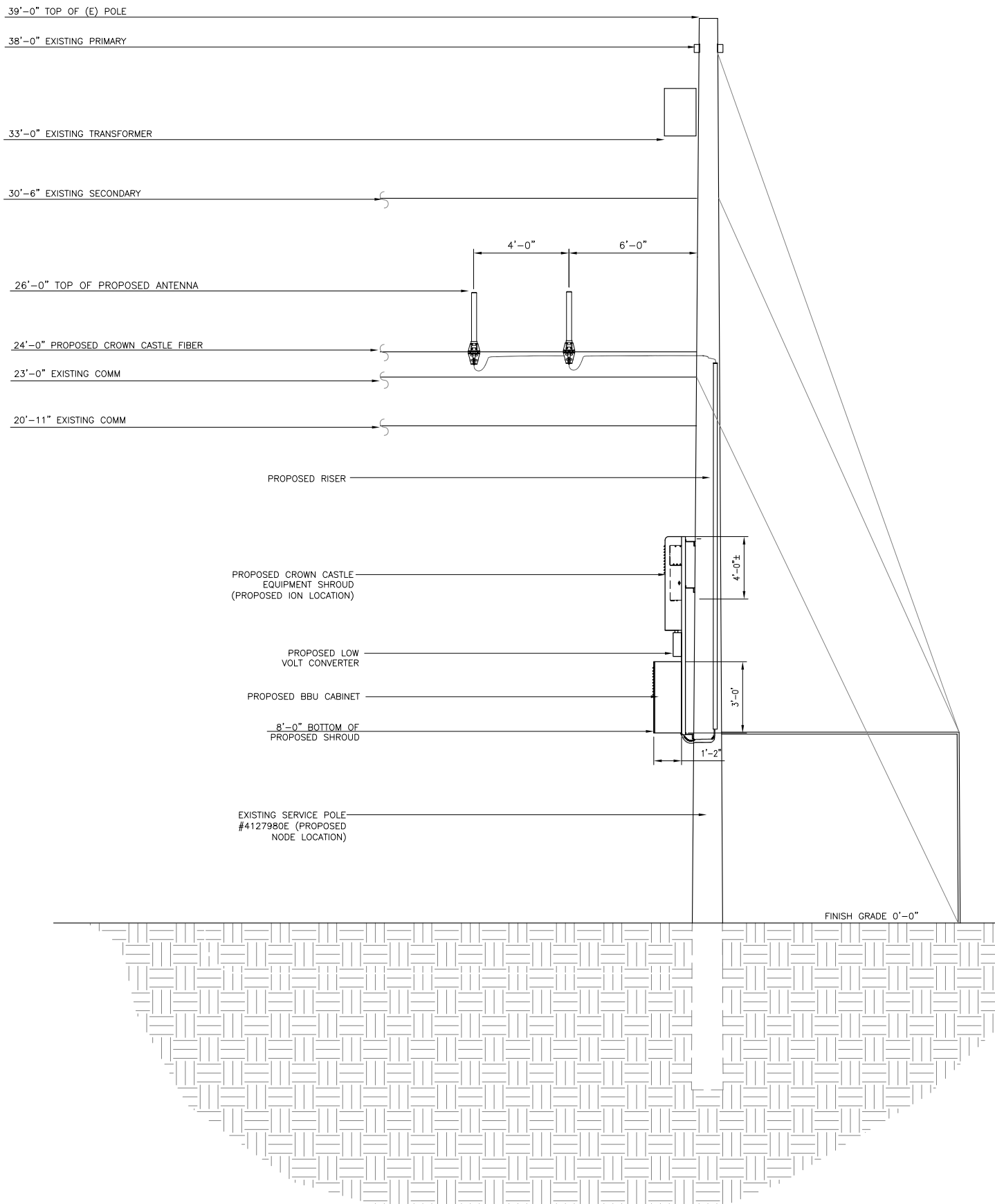
A-2



NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

PROPOSED ELEVATION LOOKING EAST

SCALE: 3/8"=1'-0" 0 1' 2' 3' 1



PROPOSED ELEVATION LOOKING SOUTH

SCALE: 3/8"=1'-0" 0 1' 2' 3' 2

Outdoor Omni-directional Antenna



OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

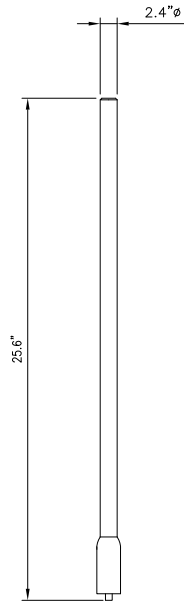
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Down tilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S. 1

Electrical

Power Supply		115 or 230
Mains power, Vac		
Power consumption, Watts		1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz		Uplink: 698 to 716/776 to 787
		Downlink: 728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz		Uplink: 824 to 849
		Downlink: 869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz		Uplink: 1850 to 1915
		Downlink: 1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB	IP3 optimized: -10 max. Noise figure optimized: +6 max. 4.5 typical
------------------	---------------------------------------------------------------------------

Mechanical****

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
Weight, kg (lb)	40 (88.2)

ION-M7P/7P/85P/19P

N.T.S. 2

AlphaCell General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty:	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes):	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Max. Discharge Current (A):	2800	2600	2500
Short Circuit Current (A):	11.4	11.3	11.2
10 Second Volts @ 100A:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75V/PC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70V/PC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.5/317.8
Depth (in/mm):	6.60/172.7	6.60/172.7	6.63/173.4
Operating Temperature Range			
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 50°C (-9.4 to 140°F)	-23 to 50°C (-9.4 to 140°F)	-23 to 50°C (-9.4 to 140°F)
Float Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

Specifications⁴

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	800	800	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75V/PC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70V/PC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.5/317.8
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Charge (with temp compensation):	-23 to 50°C (-9.4 to 140°F)	-23 to 50°C (-9.4 to 140°F)	-23 to 50°C (-9.4 to 140°F)
Float Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

Notes:

- Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
- Fluoramas calculated using a 25A DC constant current load.
- Dimensions at top of battery.
- See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model	220	195	165	220	195	165	220	195	165	220	195	165
2000mAh @ 2A	220	195	165	220	195	165	220	195	165	220	195	165
3x batteries	528	453	390	528	453	390	528	453	390	528	453	390
4x batteries	371	325	260	371	325	260	371	325	260	371	325	260
6x batteries	267	233	180	267	233	180	267	233	180	267	233	180
8x batteries	202	178	135	202	178	135	202	178	135	202	178	135
9x batteries	196	169	122	191	163	119	180	153	109	169	140	103
10x batteries	180	152	115	179	150	111	171	143	104	161	134	98
12x batteries	150	127	93	149	121	87	141	113	81	128	101	73
14x batteries	133	111	81	132	104	75	124	96	69	111	83	59
16x batteries	119	100	71	118	92	66	109	81	58	96	69	50
18x batteries	107	89	63	106	79	57	97	69	50	84	58	42
20x batteries	96	79	56	95	68	49	86	58	42	73	49	35
22x batteries	87	71	50	86	59	43	77	49	35	64	41	29
24x batteries	79	64	45	77	52	38	68	42	30	55	34	24
26x batteries	72	58	41	70	47	34	61	37	27	48	29	20
28x batteries	66	53	37	64	42	30	55	32	24	42	25	17
30x batteries	61	49	34	59	38	27	50	28	21	37	21	15
32x batteries	57	45	31	55	35	24	46	25	18	33	18	13
34x batteries	53	41	28	51	32	21	42	22	15	29	15	10
36x batteries	49	38	25	47	29	18	38	19	12	25	12	7
38x batteries	46	35	22	44	26	15	35	16	9	22	9	5
40x batteries	43	32	19	41	23	12	32	13	7	19	7	3
42x batteries	40	29	16	38	20	9	29	10	5	16	5	2
44x batteries	37	26	13	35	17	6	26	7	3	13	3	1
46x batteries	34	23	10	32	14	3	23	4	1	10	1	0
48x batteries	31	20	7	29	11	0	20	1	0	7	0	0
50x batteries	28	17	4	26	8	0	17	0	0	4	0	0
52x batteries	25	14	1	23	5	0	14	0	0	1	0	0
54x batteries	22	11	0	20	2	0	11	0	0	0	0	0
56x batteries	19	8	0	17	0	0	8	0	0	0	0	0
58x batteries	16	5	0	14	0	0	5	0	0	0	0	0
60x batteries	13	2	0	11	0	0	2	0	0	0	0	0

*Above calculations based on an AC load with the 90 cable plant power factor.

For contact information visit www.alpha.com

North America	Europe, Middle East & Africa	Asia Pacific	Latin & South America
Canada Tel: +1 434 433 1476 Fax: +1 804 435 8958 Tel Free: +1 800 667 3543	Cyprus Tel: +357 25 375 675 Fax: +357 25 365 595	Germany Tel: +49 9122 79889 0 Fax: +49 9122 79889 24	Ukraine Tel: +379 5 210 5291 Fax: +379 5 210 6292
USA Tel: +1 360 647 2360 Fax: +1 360 671 4938	Russia Tel: +7 495 925 9444 Fax: +7 495 915 1348	United Kingdom Tel: +44 1273 961110 Fax: +44 1273 961110	P.R. China Tel: +86 21 59 06653 Fax: +86 21 59 06653

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REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer



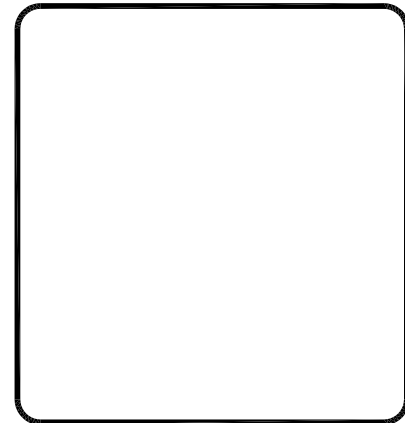
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:	
SITE NAME:	MON22m1 VERIZON MONTECITO-MON22m1
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID C1 R.O.W. SOUTH SIDE OF VELOZ DR (ADJACENT TO 2165 VELOZ DR) SANTA BARBARA, CA 93108 LAT: 34.441587 LONG: -119.602992

SHEET TITLE:

DETAILS

DRAWING INFO:

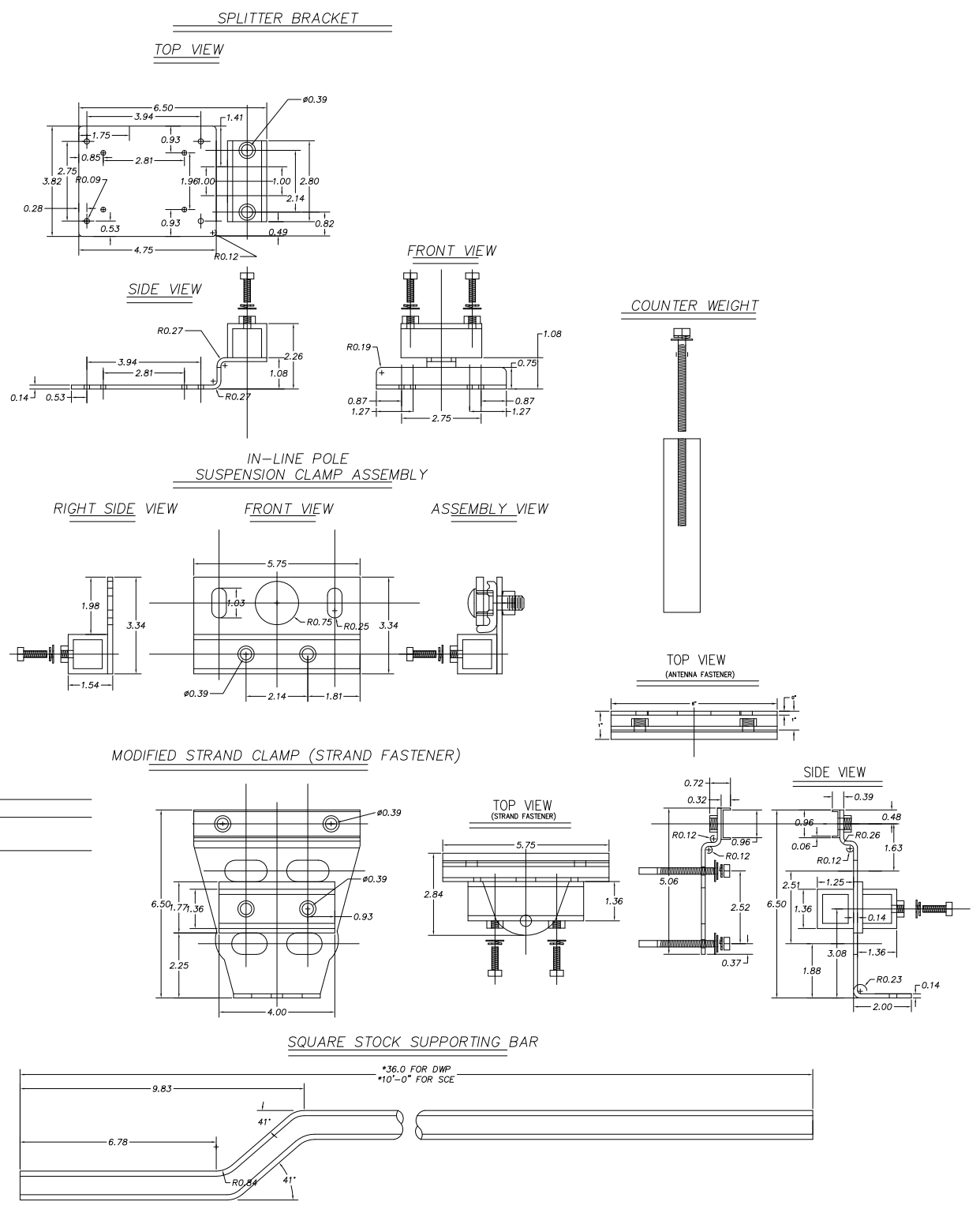
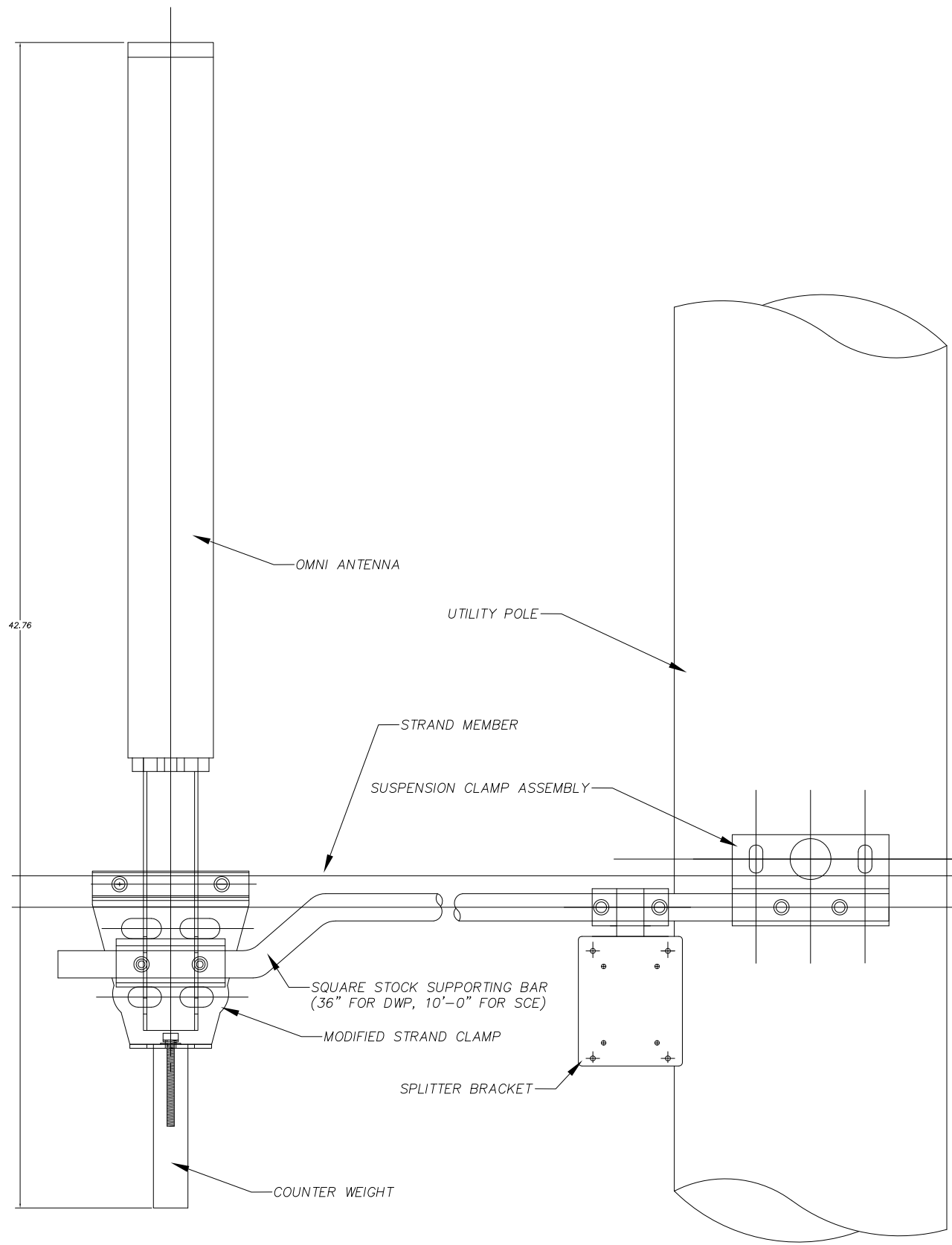
DRAWN BY:
FC

SHEET NUMBER:

D-1

BATTERY SPECIFICATIONS

N.T.S. 3



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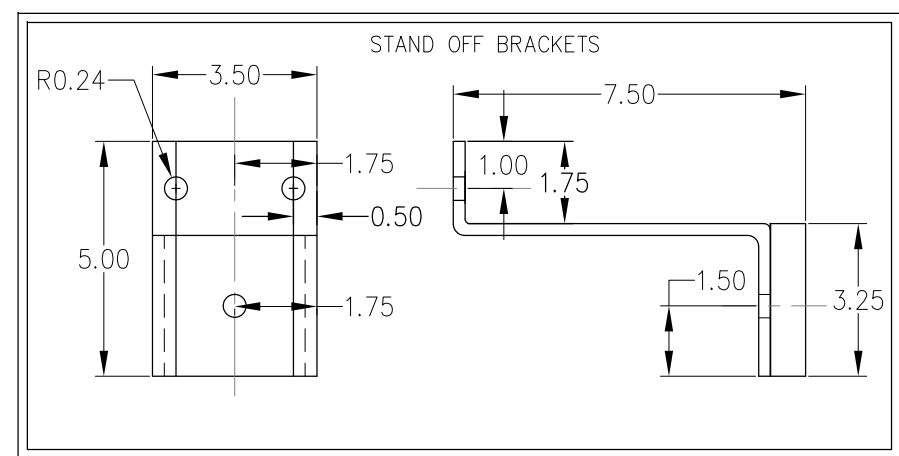
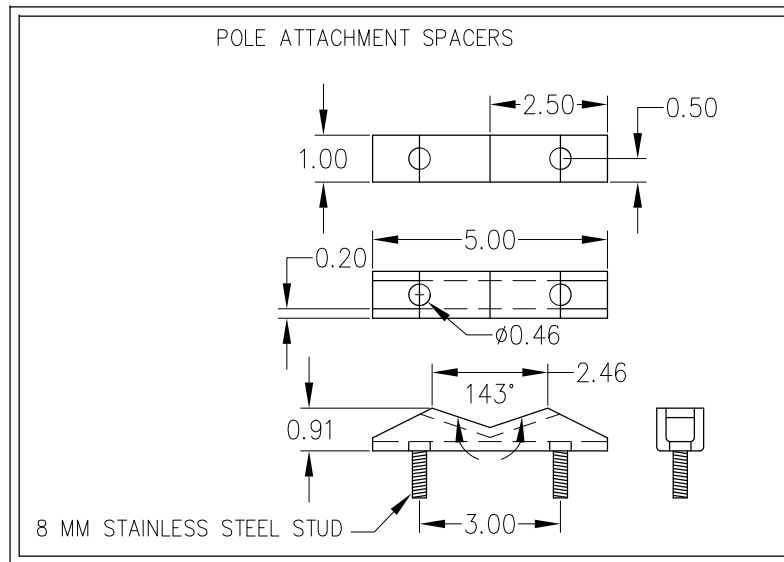
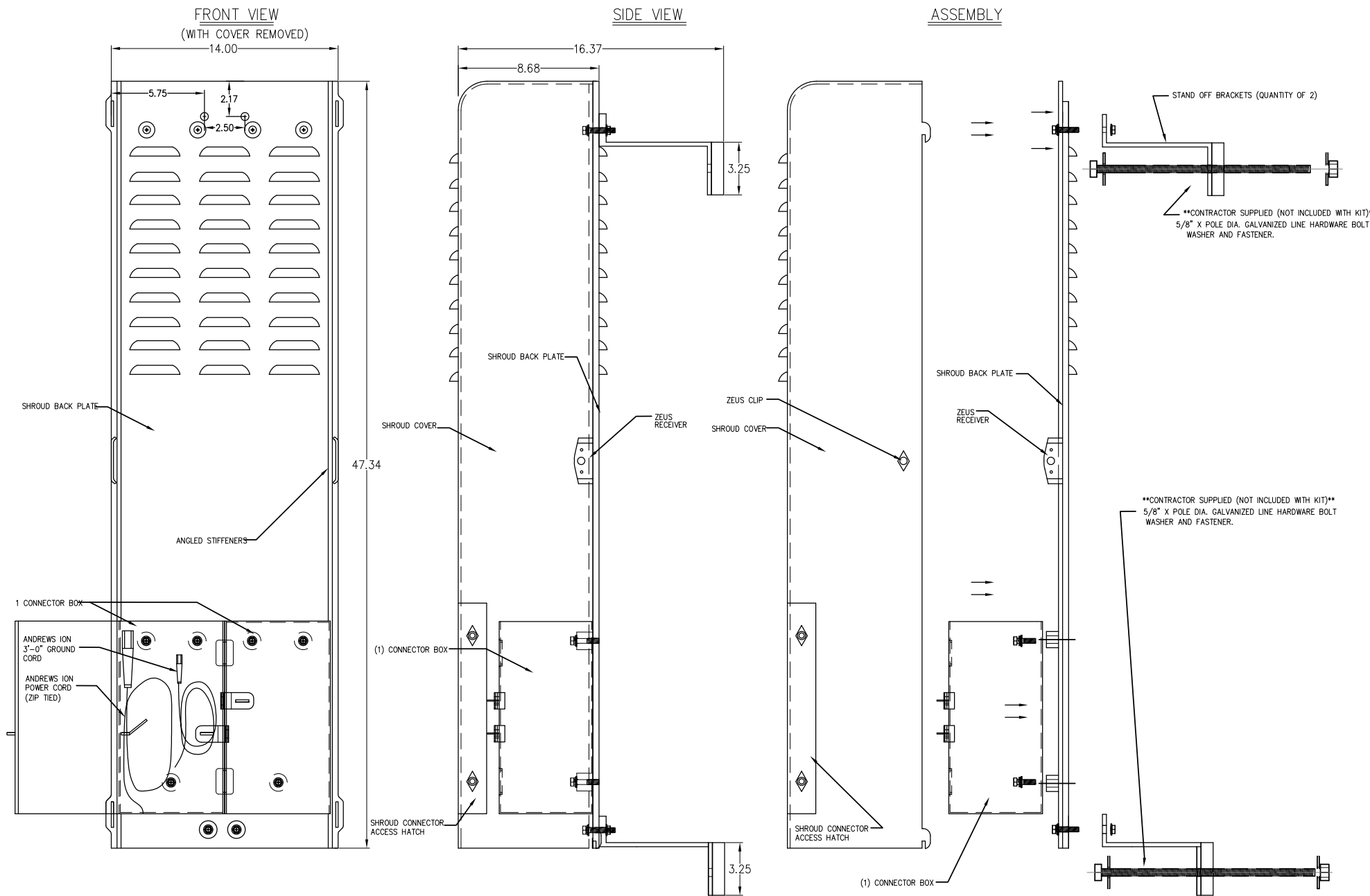
DETAILS

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FC

SHEET NUMBER:

D-2



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Civil Engineer

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CONSULTING CIVIL ENGINEERS
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SANTA BARBARA, CA 93108
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LONG: -119.602992

SHEET TITLE:

DETAILS

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FC

SHEET NUMBER:

D-3

GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT PEDESTAL W/ BBU, AND ELECTRICAL METER AT BASE OF POLE
3. PROPOSED SHROUD W/ ION ON EXISTING UTILITY POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 8
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 8
SITE PLAN	A-1 - SHEET 3 OF 8
PROPOSED ELEVATIONS	A-2 - SHEET 4 OF 8
GRADING PLAN	A-3 - SHEET 5 OF 8
DETAILS	D-1 - SHEET 6 OF 8
DETAILS	D-2 - SHEET 7 OF 8
DETAILS	D-3 - SHEET 8 OF 8

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON23

R.O.W. EAST SIDE OF ROMERO CANYON RD. (ADJACENT TO 1000 ROMERO CANYON RD) SANTA BARBARA, CA 93108



SYMBOLS, LINETYPES AND HATCH PATTERNS			
	GROUND BUS BAR		LIGHT POLE
	MECH. GRND. CONN.		FOUNDATION
	CADWELD		SPOT ELEV.
	ELECTRIC BOX		SET POINT
	TELEPHONE BOX		REVISION
	EXISTING SERVICE POLE		DETAIL REF.
	SIDEWALK FLAG		ELEVATION REF.
	EX. MANHOLE		SECTION REF.
			PROP./LEASE LINE
			MATCH LINE
			WORK POINT
			TELE. CONDUIT
			CENTERLINE
			ELECT. CONDUIT
			COAXIAL CABLE
			MYERS PEDESTAL
			VAULT STANDARD 2'x3'
			STEEL POLE

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 - FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 - FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
 - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 - ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" x 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. EAST SIDE OF ROMERO CANYON RD. (ADJACENT TO 1000 ROMERO CANYON RD) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV.	DATE/BY:	REVISION DESCRIPTION:
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3	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE • (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON23
VERIZON MONTECITO-MON23

SITE ADDRESS: THOMAS BROS PAGE 987 GRID E7
R.O.W. EAST SIDE OF ROMERO CANYON RD.
(ADJACENT TO 1000 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.44892
LONG: -119.59215

SHEET TITLE:

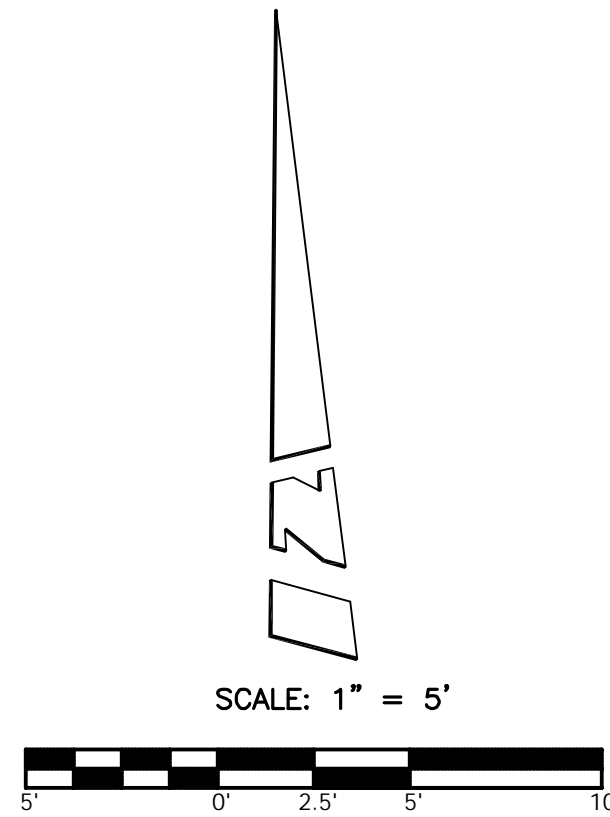
TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1



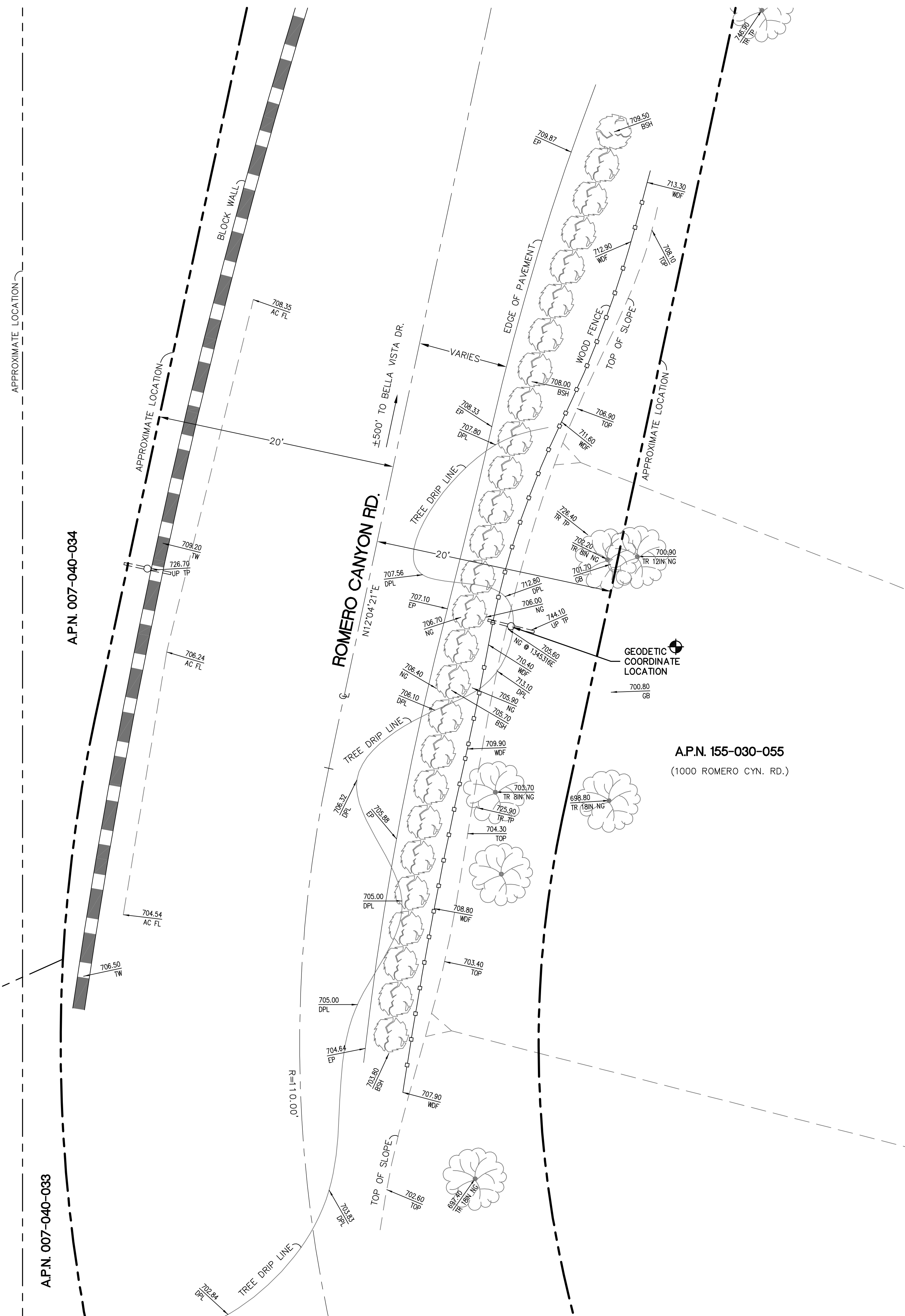
LEGEND:

- AC ASPHALT CONCRETE
- BSH BUSH
- DPL DRIP LINE
- EP EDGE OF PAVEMENT
- FD FOUND
- FL FLOWLINE
- GB GRADE BREAK
- IN INCHES
- IP IRON PIPE
- NG NATURAL GROUND
- TOP TOP OF SLOPE
- TP TOP
- TR TREE
- TW TOP OF WALL
- UP UTILITY POLE
- WDF WOOD FENCE
- BLOCK WALL
- CENTERLINE
- FOUND MONUMENT
- UTILITY POLE
- WOOD FENCE

RECORD OF SURVEY
R.S.B. 39 / 73

A.P.N. 007-040-037

A.P.N. 007-040-030



COORDINATES:

LATITUDE 34°26'54.99" N
LONGITUDE 119°35'32.18" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

ESTABLISHED BY G.P.S. OBSERVATIONS AND PROCESSED TO CALIFORNIA ZONE 5, NORTH AMERICAN DATUM OF 1983.

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 750"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 750" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 752.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 17, 2013

SURVEYORS NOTE:

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.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/25/13 MDL/JA	ISSUED FOR REVIEW

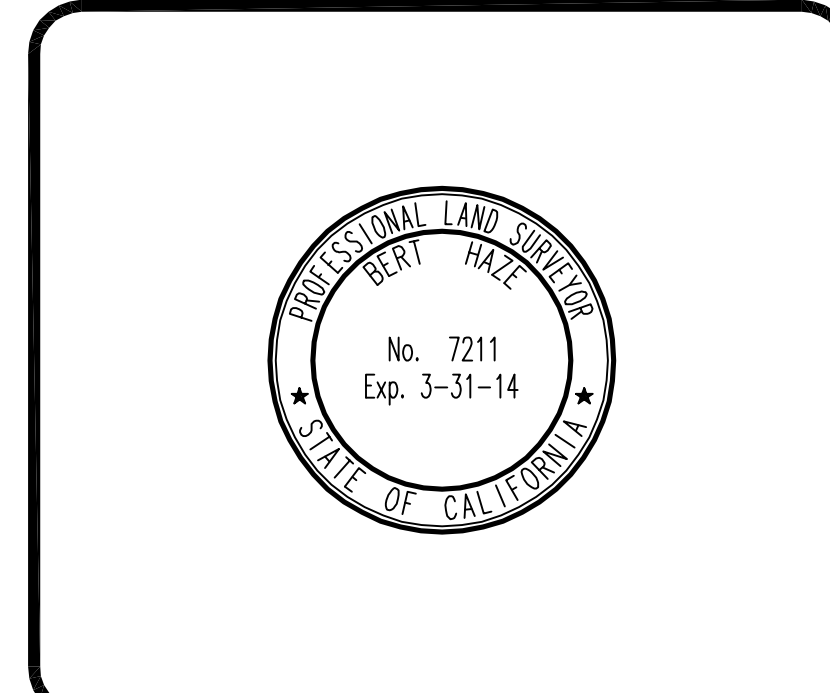
ENGINEER/CONSULTANT:

SITE BUILDER:

SURVEYOR:

BERT HAZE
AND ASSOCIATES, INC.
LAND SURVEYING & MAPPING
3188 AIRWAY AVENUE, SUITE K1
COSTA MESA, CALIFORNIA 92626
714 557-1567 OFFICE
714 557-1568 FAX
JN. 706.236

STAMP:



SITE INFO:

SITE NAME:
MON23
VERIZON MONTECITO-MON23

SITE ADDRESS:
R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 1000 ROMERO CANYON RD)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

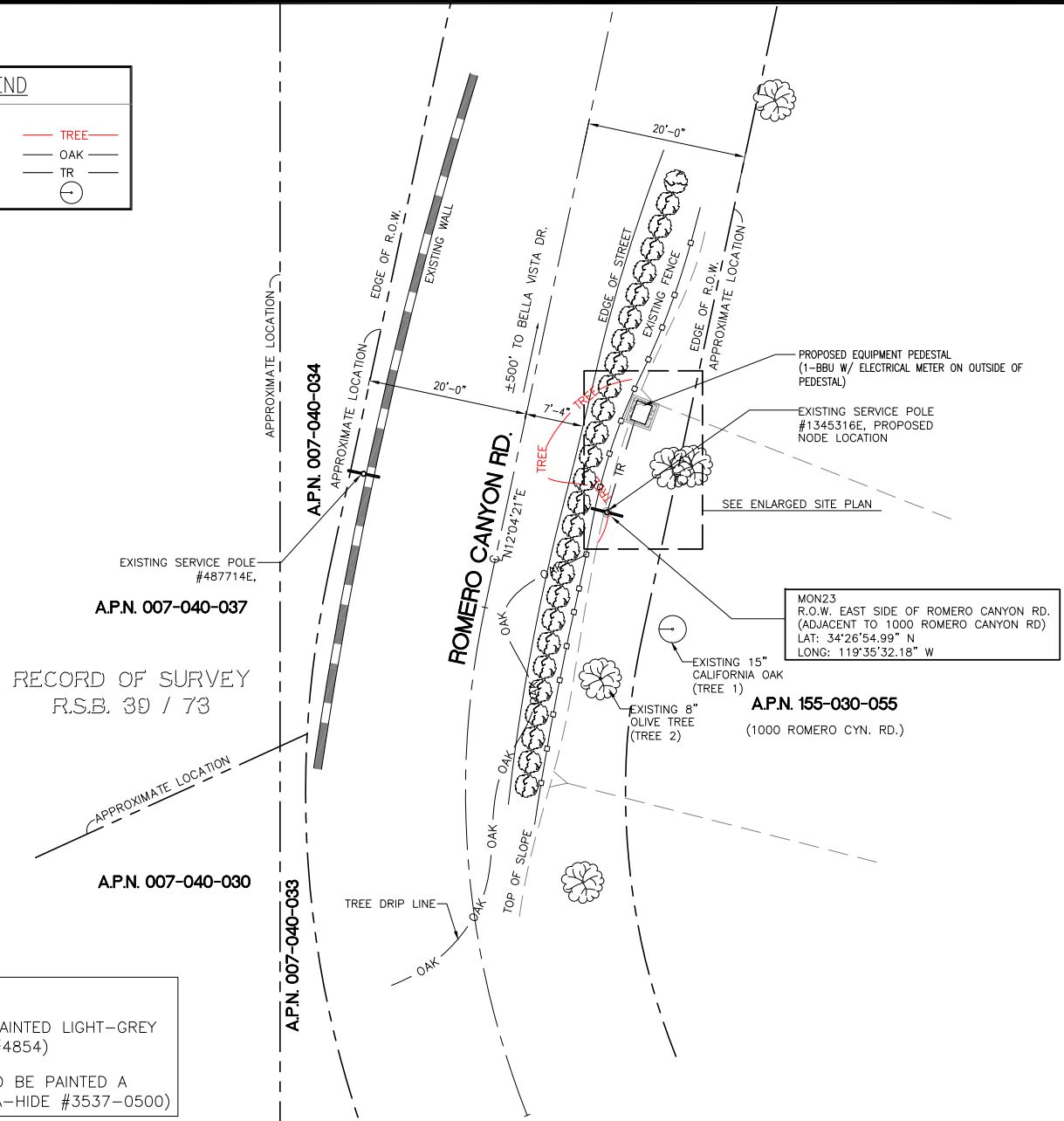
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DWG. NAME: MON23	DRAWN BY: MDL	DATE: 07/25/13
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SHEET NUMBER:

1 OF 1 | C-1

LEGEND	
TREE DRIP LINE	TREE
CAL OAK DRIP LINE	OAK
TRENCH	TR
CAL OAK	⊖



NOTE:

1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



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ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE • (949) 753-8833 FAX

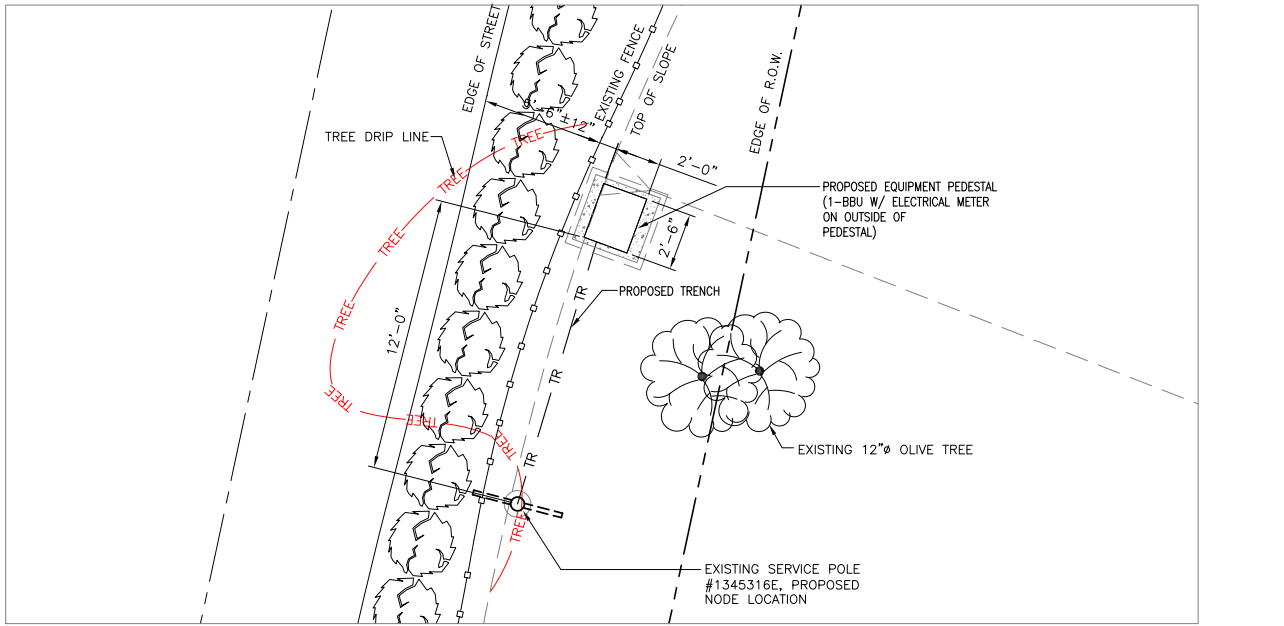
CLIENT:

CROWN CASTLE
NG WEST, INC.

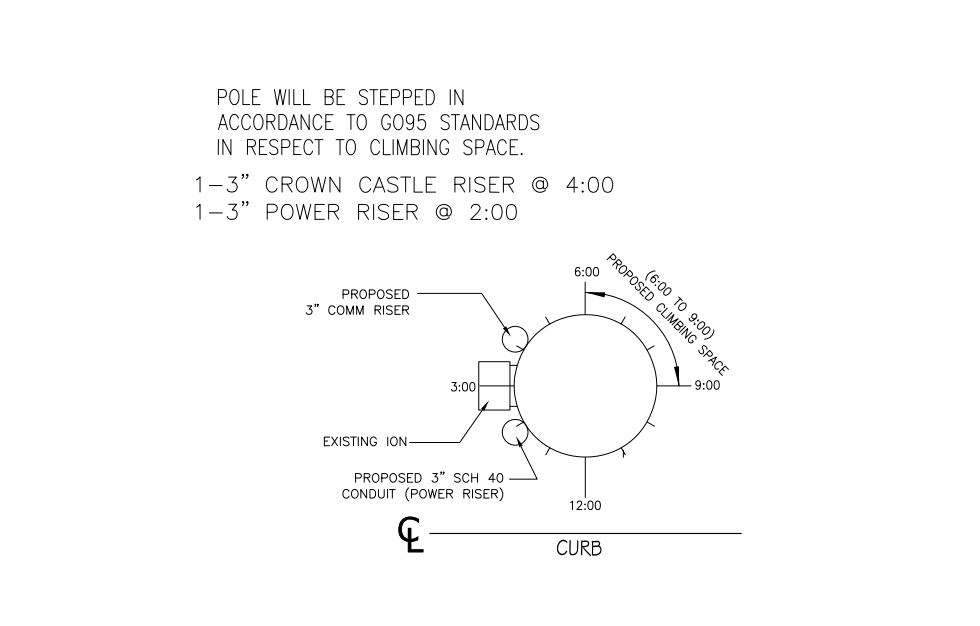
STAMP:

SITE PLAN SCALE: 1"=10'-0" 1

EXISTING PHOTO SCALE: N.T.S. 3



ENLARGED SITE PLAN SCALE: 1/4"=1'-0" 2



RISER PROFILE SCALE: N.T.S. 4

SITE INFO:

SITE NAME: MON23

VERIZON MONTECITO-MON23

SITE ADDRESS: THOMAS BROS PAGE 987 GRID E7 R.O.W. EAST SIDE OF ROMERO CANYON RD. (ADJACENT TO 1000 ROMERO CANYON RD) SANTA BARBARA, CA 93108
LAT: 34.44892
LONG: -119.59215

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

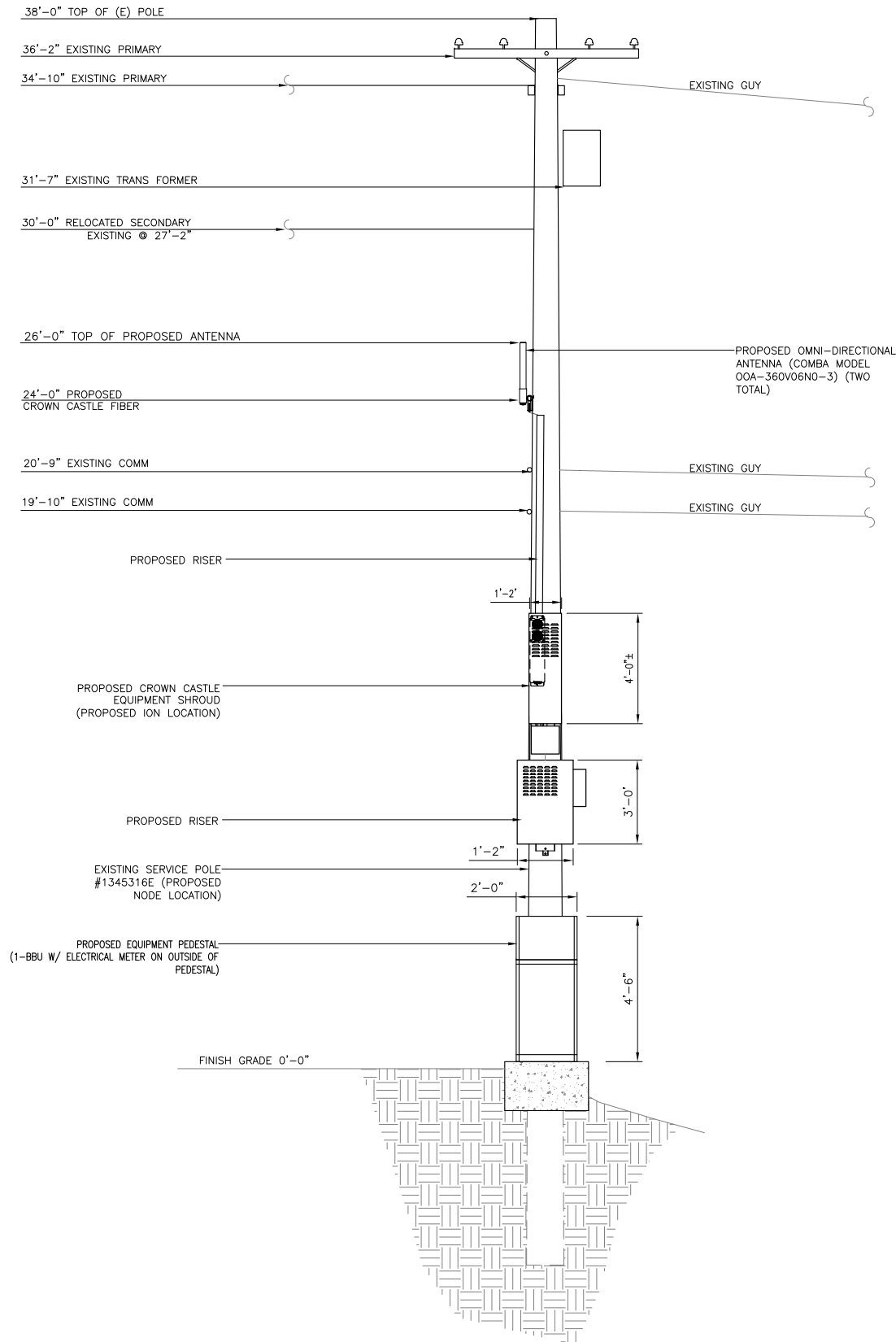
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DRAWN BY: FC

SHEET NUMBER:

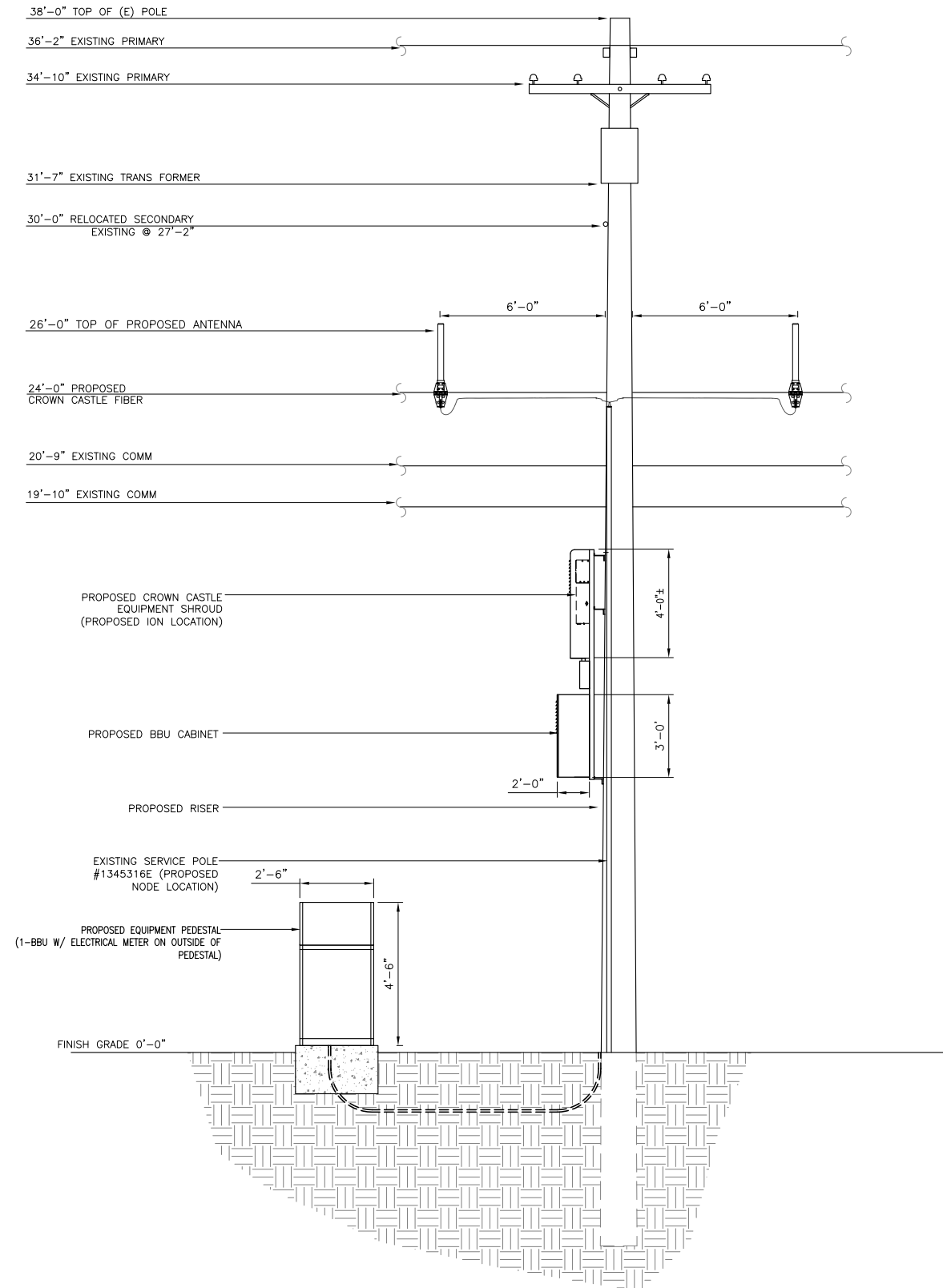
A-1

NOTE:
 1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



PROPOSED ELEVATION LOOKING SOUTH

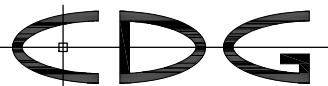
SCALE: 3/8"=1'-0" 0 1' 2' 3' 1



PROPOSED ELEVATION LOOKING EAST

SCALE: 3/8"=1'-0" 0 1' 2' 3' 2

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ENGINEER/CONSULTANT:
 Civil Engineer

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 CONSULTING CIVIL ENGINEERS
 26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
 (949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
 NG WEST, INC.

STAMP:

SITE INFO:
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 (ADJACENT TO 1000 ROMERO CANYON RD)
 SANTA BARBARA, CA 93108
 LAT: 34.44892
 LONG: -119.59215

SHEET TITLE:
ELEVATION

DRAWING INFO:
 DRAWN BY:
 FC

SHEET NUMBER:
A-2

REV:	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer



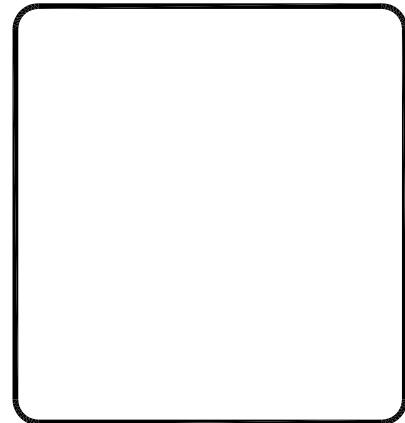
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



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SITE ADDRESS: THOMAS BROS PAGE 987 GRID E7
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SANTA BARBARA, CA 93108
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LONG: -119.59215

SHEET TITLE:

GRADING PLAN

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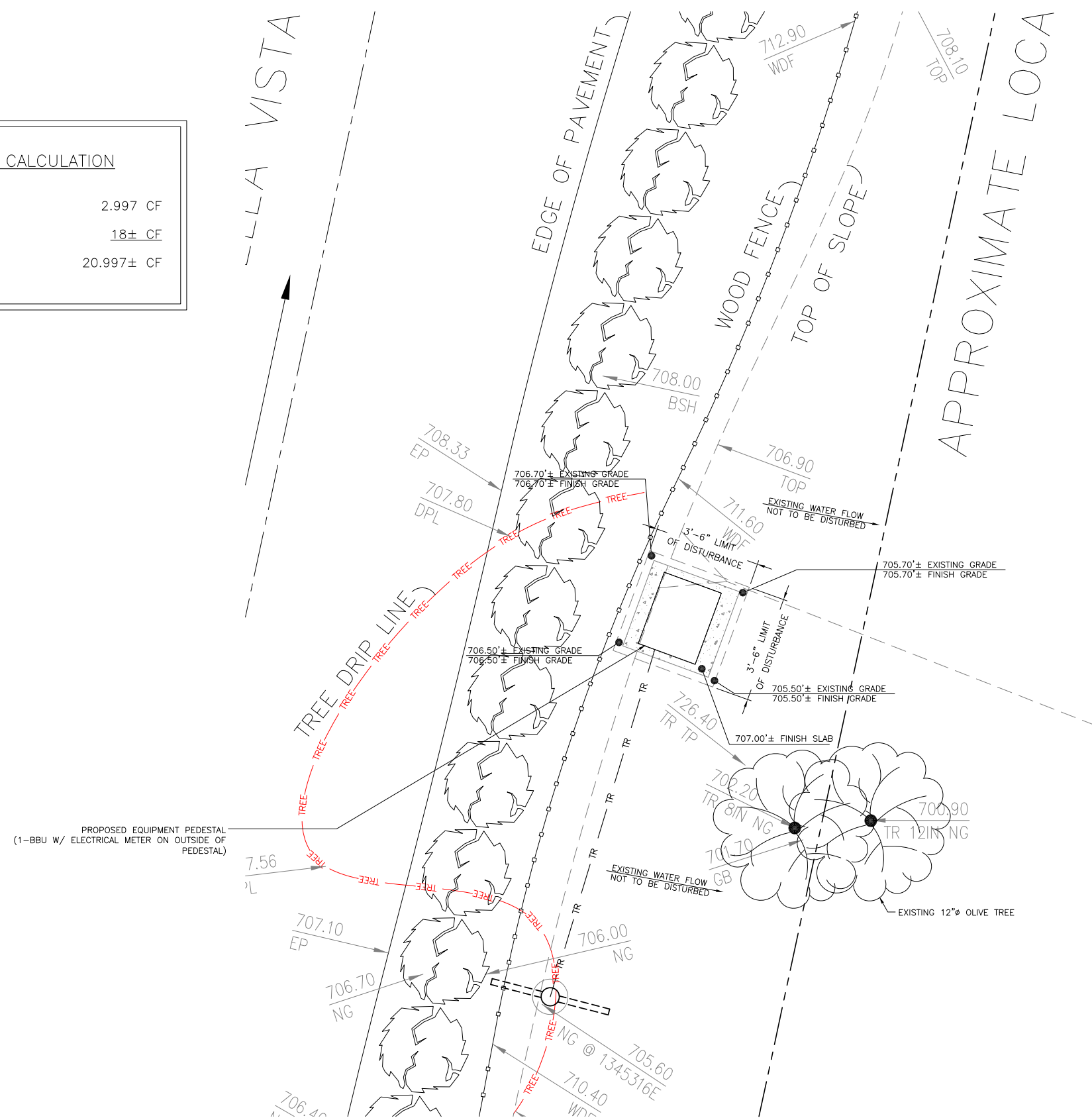
DRAWN BY:
FC

SHEET NUMBER:

A-3

GRADING CALCULATION	
CONCRETE PAD:	2.997 CF
12'Lx3'Dx.5'W TRENCH:	18± CF
TOTAL:	20.997± CF

NOTE:
NO CUT AND FILL REQUIRED



LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊖

Outdoor Omni-directional Antenna

COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

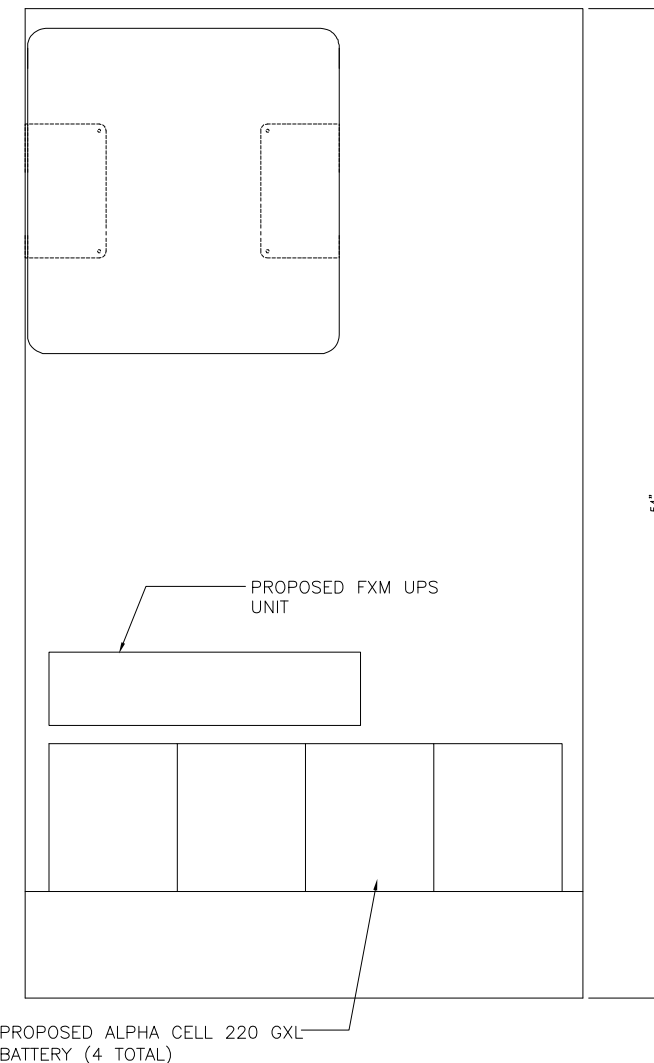
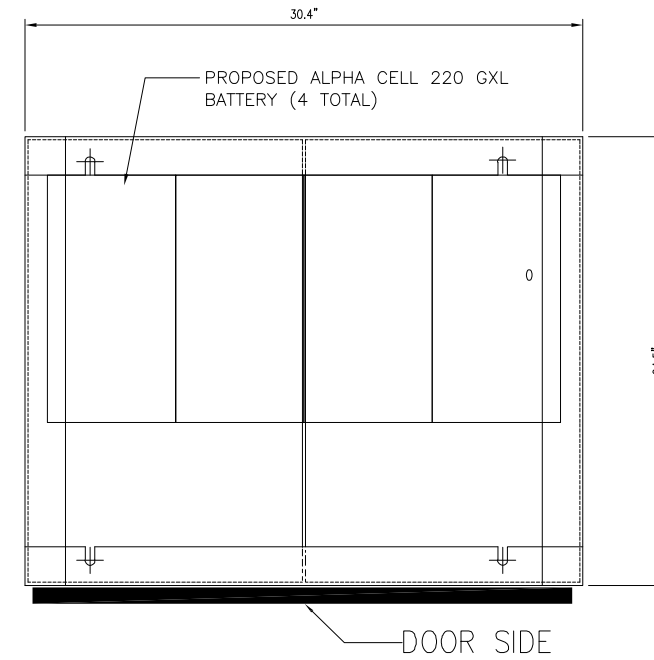
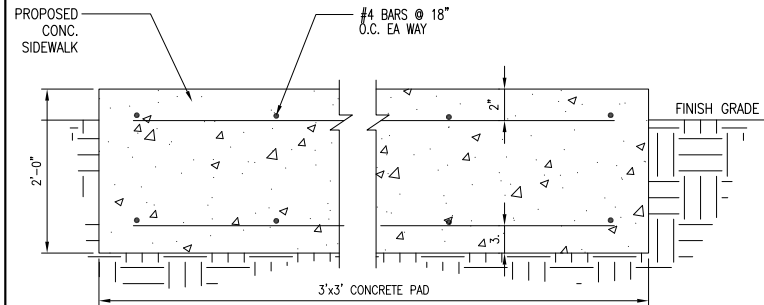
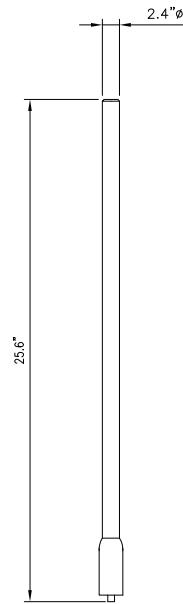
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature	%	-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



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CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: **MON23**
VERIZON MONTECITO-MON23

SITE ADDRESS: THOMAS BROS PAGE 987 GRID E7
R.O.W. EAST SIDE OF ROMERO CANYON RD.
(ADJACENT TO 1000 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.44892
LONG: -119.59215

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-1

ANTENNA SPECIFICATIONS

N.T.S.

1 CONCRETE PAD

N.T.S.

3

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	Uplink	698 to 716/776 to 787
	Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	Uplink	824 to 849
	Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz	Uplink	1850 to 1915
	Downlink	1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



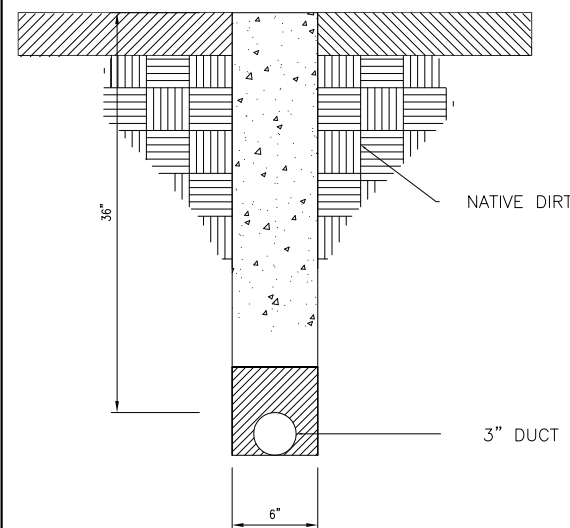
ION-M7P/7P/85P/19P

Noise figure, dB	ICP3 optimized	+10 max.
	Noise figure optimized	+6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)	40 (88.2)
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* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

N.T.S.

4

EQUIPMENT PEDESTAL

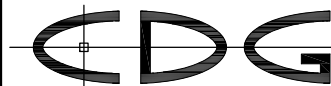
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5

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0	FXC 03/15/2013	ISSUED FOR REVIEW
1	FXC 03/25/2013	ISSUED FOR FINAL
2	FXC 11/05/2013	ISSUED FOR FINAL
3	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

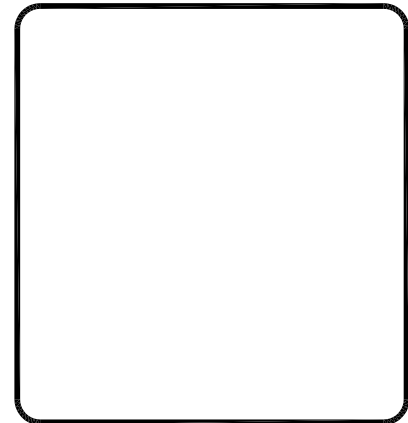


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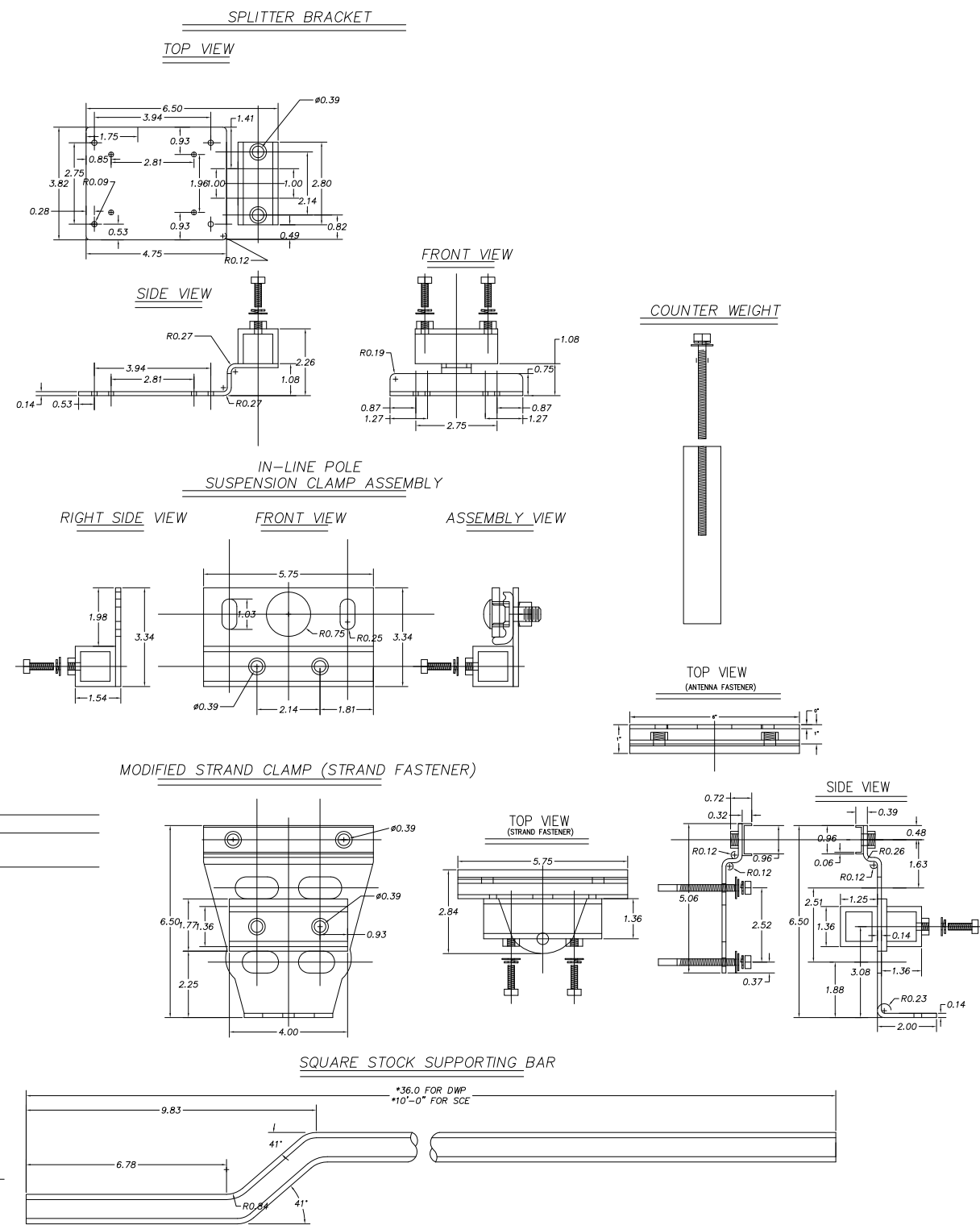
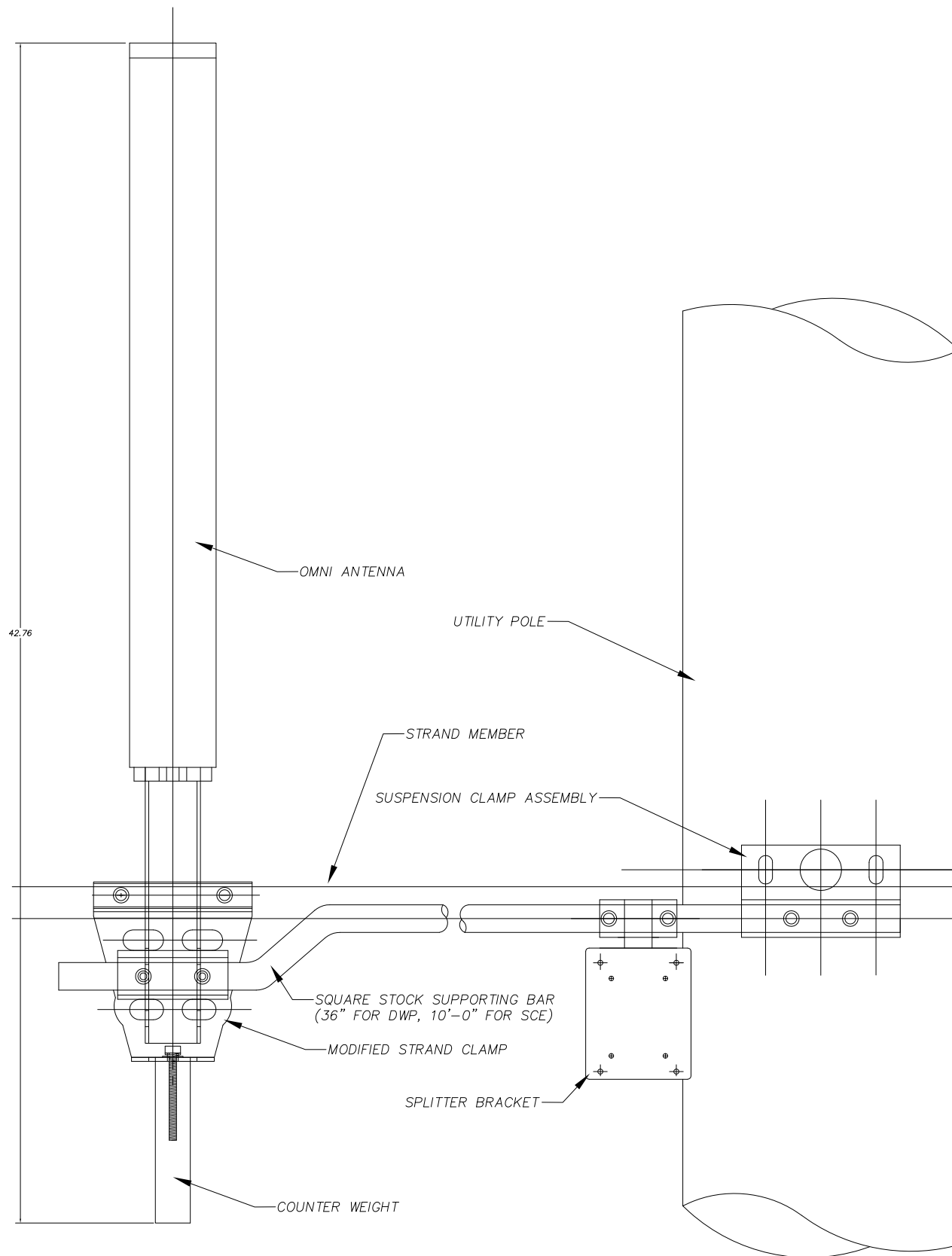
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SHEET NUMBER:

D-2



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3	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

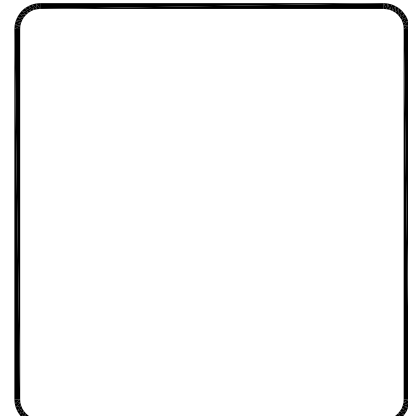


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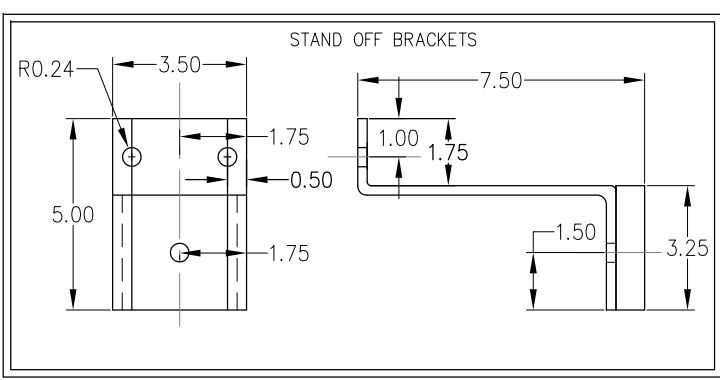
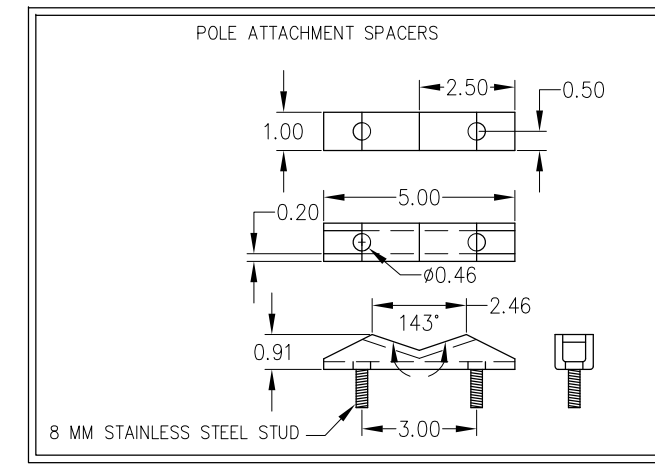
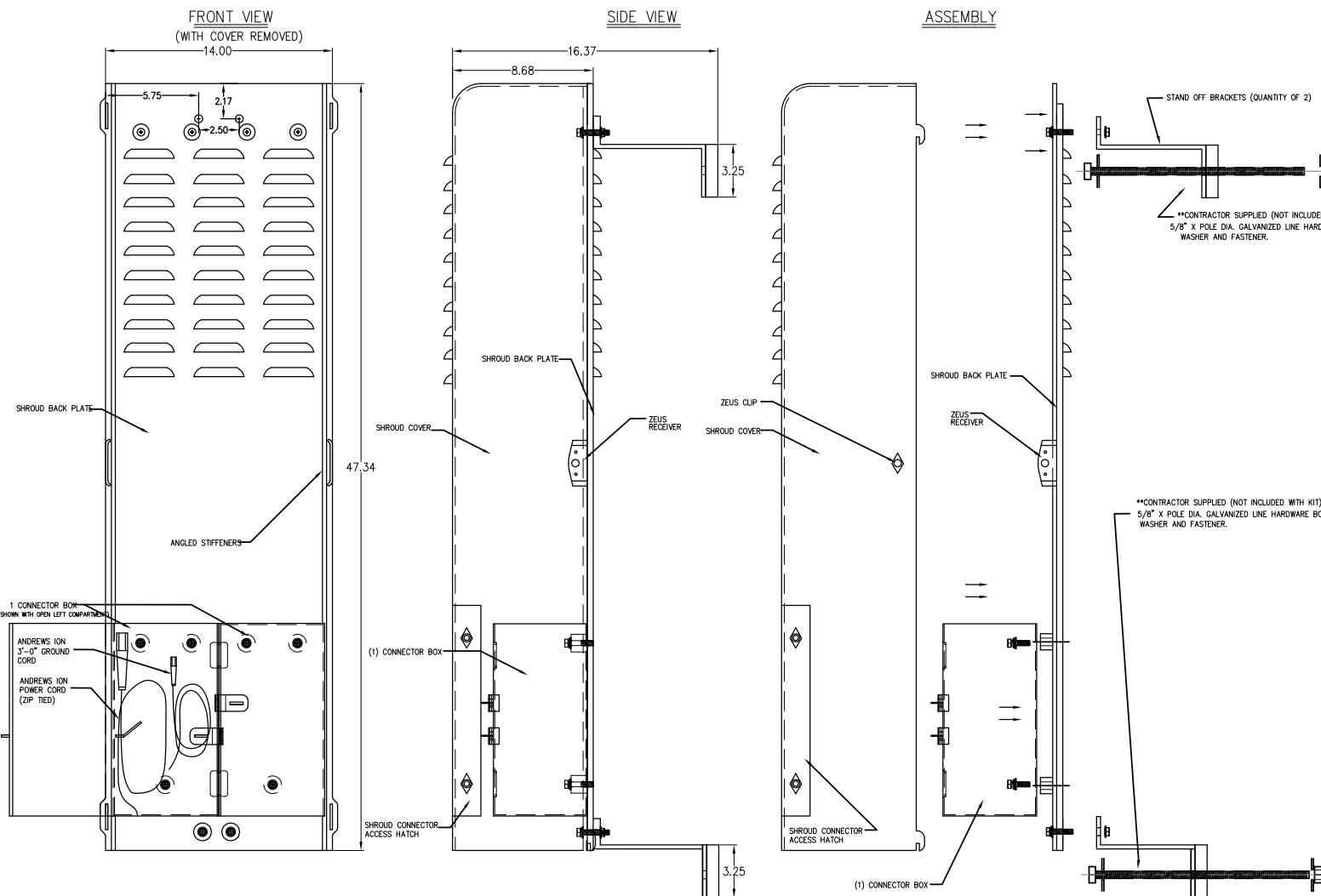
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D-3



AlphaCell
General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes):	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	Extreme	Extreme
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

Specifications²

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 90Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	9.48/215.4	9.48/215.4	9.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.63/173.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range:	-40 to 71°C	-40 to 71°C	-40 to 71°C
Discharge:	(-40 to 160°F)	(-40 to 160°F)	(-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C	-23 to 60°C	-23 to 60°C
Float Charging Voltage (Vdc):	(-9.4 to 140°F)	(-9.4 to 140°F)	(-9.4 to 140°F)
AC Ripple Charger:	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8

Notes:
¹Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
²Runtime is calculated using a 25A DC constant current load.
³Dimensions at top of battery.
⁴See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

AC/DC Voltage	4A	6A	8A	10A	12A	15A	20A	25A	30A	35A	40A	50A	60A	70A	80A	90A	100A
12V/6Vdc	330	195	165	230	195	165	230	195	165	230	195	165	230	195	165	230	195
3 batteries	530	450	390	330	285	240	290	240	200	160	130	100	120	90	70	50	40
4 batteries	700	620	540	440	380	320	390	320	260	210	170	130	150	110	80	60	40
6 batteries	1060	930	810	700	620	540	570	490	400	330	270	210	240	180	140	100	80
8 batteries	1430	1260	1110	960	850	750	790	680	560	460	380	300	330	250	190	140	110
10 batteries	1800	1590	1410	1210	1070	930	980	840	700	580	480	380	420	320	240	180	140
12V/6Vdc	12A	16A	19A	24A	30A	36A	45A	54A	63A	72A	81A	90A	108A	126A	144A	162A	180A
3 batteries	140	132	115	119	108	92	101	89	77	87	78	68	78	69	59	50	41
4 batteries	210	187	165	169	151	132	144	128	112	124	111	95	104	91	78	66	54
6 batteries	350	301	264	275	245	214	236	209	183	204	182	156	176	154	131	110	90
8 batteries	470	410	367	385	341	299	329	293	256	288	255	223	254	223	190	160	130
10 batteries	590	479	419	440	391	342	377	335	294	329	293	258	294	258	223	190	155
12V/6Vdc	6A	8A	9A	12A	15A	18A	22A	27A	32A	36A	40A	45A	54A	63A	72A	81A	90A
3 batteries	790	712	622	530	453	390	377	335	294	300	267	233	254	223	190	155	120
4 batteries	1060	970	850	701	625	540	523	495	407	410	372	325	346	307	267	223	170
6 batteries	1690	1500	1320	1091	970	853	800	733	640	650	597	514	546	480	410	350	280
8 batteries	2280	2067	1780	1490	1330	1160	1122	1005	877	904	809	700	736	650	560	480	390
10 batteries	2900	2665	2300	1930	1710	1520	1523	1365	1190	1229	1100	950	1000	890	780	680	570

*Above calculations based on an AC load with a 90 cycle plant power factor.
 For contact information visit www.alpha.com
The Alpha Group >

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USA Tel: +1 360 647 2360 Fax: +1 360 671 4936	Russia Tel: +7 495 525 9044 Fax: +7 495 516 1343	United Kingdom Tel: +44 1279 661110 Fax: +44 1279 659070	P.R. China Tel: +852 2756 8663 Fax: +852 2199 7988

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GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON29m1

R.O.W. WEST SIDE OF LILAC DR (ADJACENT TO 663 LILAC DR) SANTA BARBARA, CA 93108



<ul style="list-style-type: none"> — T — GROUND BUS BAR ● MECH. GRND. CONN. ■ CADWELD E ELECTRIC BOX T TELEPHONE BOX ⊗ EXISTING SERVICE POLE ⊗ SIDEWALK FLAG ⊙ EX. MANHOLE 	<ul style="list-style-type: none"> ☀ LIGHT POLE ○ FOUNDATION ◆ SPOT ELEV. ▲ SET POINT ⚠ REVISION ⊙ DETAIL REF. 	<ul style="list-style-type: none"> △ ELEVATION REF. ⊗ SECTION REF. - - - PROP./LEASE LINE ● MATCH LINE ⊙ WORK POINT — T — TELE. CONDUIT - - - CENTERLINE 	<ul style="list-style-type: none"> — E — ELECT. CONDUIT — A — COAXIAL CABLE □ MYERS PEDESTAL VAULT STANDARD 2'X3' ● STEEL POLE
<p>SYMBOLS, LINETYPES AND HATCH PATTERNS</p>			

EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 - FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 - FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
 - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 - ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" x 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

- SITE ADDRESS:** R.O.W. SOUTH SIDE OF ALISOS DR (ADJACENT TO 2091 ALISOS DR) SANTA BARBARA, CA 93108
- APPLICANT:** CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493
- CIVIL ENGINEER:** CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
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ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON29m1
VERIZON MONTECITO-MON29m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
R.O.W. WEST SIDE OF LILAC DR
(ADJACENT TO 663 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.439831
LONG: -119.608297

SHEET TITLE:

TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

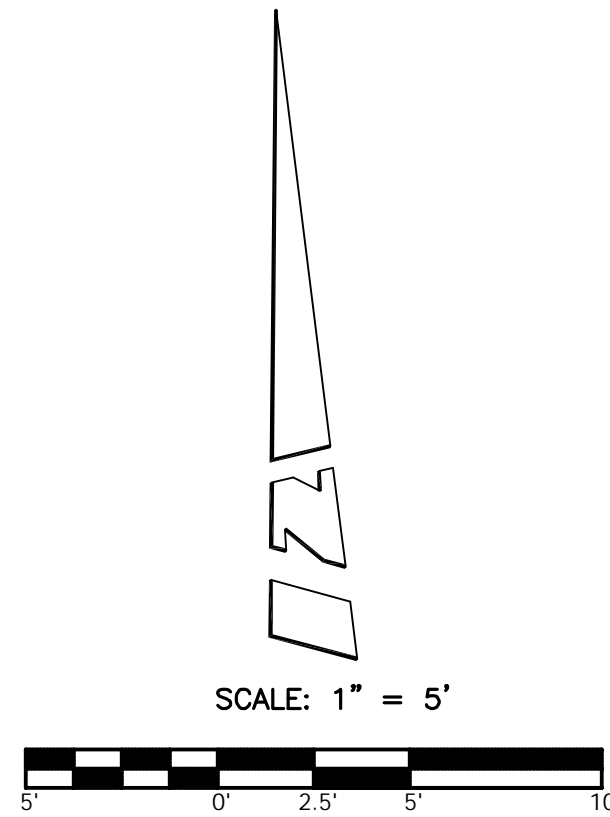
T-1

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE *2010 CALIFORNIA MECHANICAL CODE *2010 CALIFORNIA PLUMBING CODE *2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI DIRECTIONAL ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT VAULT AT BASE OF EXISTING POLE
3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 8
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 8
SITE PLAN	A-1 - SHEET 3 OF 8
PROPOSED ELEVATIONS	A-2 - SHEET 4 OF 8
GRADING PLAN	A-3 - SHEET 5 OF 8
DETAILS	D-1 - SHEET 6 OF 8
DETAILS	D-2 - SHEET 7 OF 8
DETAILS	D-3 - SHEET 8 OF 8

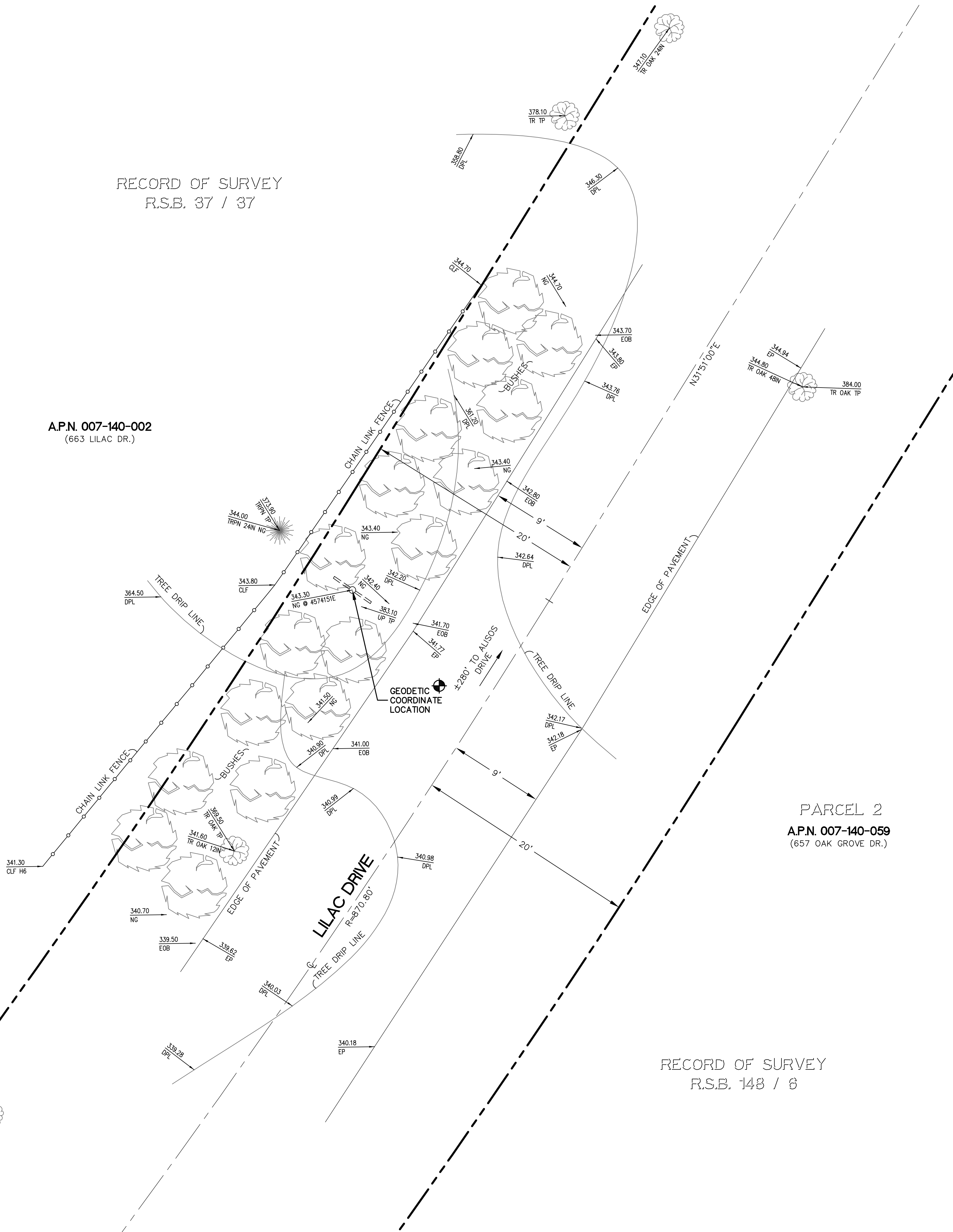


RECORD OF SURVEY
R.S.B. 37 / 37

A.P.N. 007-140-002
(663 LILAC DR.)

LEGEND:

- CLF CHAIN LINK FENCE
- DPL DRIP LINE
- EOB EDGE OF BUSH
- EP EDGE OF PAVEMENT
- FD FOUND
- NG NATURAL GROUND
- S/W SPIKE AND WASHER
- TP TOP
- TR TREE
- TRPN PINE TREE
- UP UTILITY POLE
- CHAIN LINK FENCE
- ⊕ CENTERLINE
- FOUND MONUMENT
- ⊖ UTILITY POLE



PARCEL 2
A.P.N. 007-140-059
(657 OAK GROVE DR.)

RECORD OF SURVEY
R.S.B. 148 / 8

COORDINATES:

LATITUDE 34°26'23.39" N
LONGITUDE 119°36'29.87" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE CENTERLINE OF LILAC DRIVE BEING NORTH 31°51'00" EAST PER FOUND MONUMENTS ON RECORD OF SURVEY, R.S.B. 148/6, RECORDS OF SANTA BARBARA COUNTY.

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 269"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 269" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 271.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

AUGUST 01, 2013

SURVEYORS NOTE:

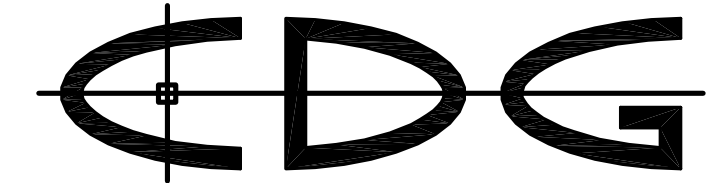
THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

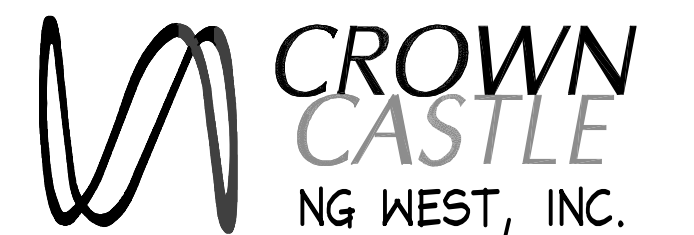
REV:	DATE/BY:	REVISION DESCRIPTION:
1	08/08/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PKWY. SOUTH
LAKE FOREST, CA 92630-8326
(949) 753-8807 OFFICE - (949) 753-8833 FAX

SITE BUILDER:



SURVEYOR:



LAND SURVEYING & MAPPING
3188 AIRWAY AVENUE, SUITE K1
COSTA MESA, CALIFORNIA 92626
714 557-1567 OFFICE
714 557-1568 FAX

JN. 706.241

STAMP:



SITE INFO:

SITE NAME:
MON29
VERIZON MONTECITO-MON29

SITE ADDRESS:
R.O.W. WEST SIDE OF LILAC DR
(ADJACENT TO 663 LILAC DR)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME: MON29	DRAWN BY: MDL	DATE: 08/08/13
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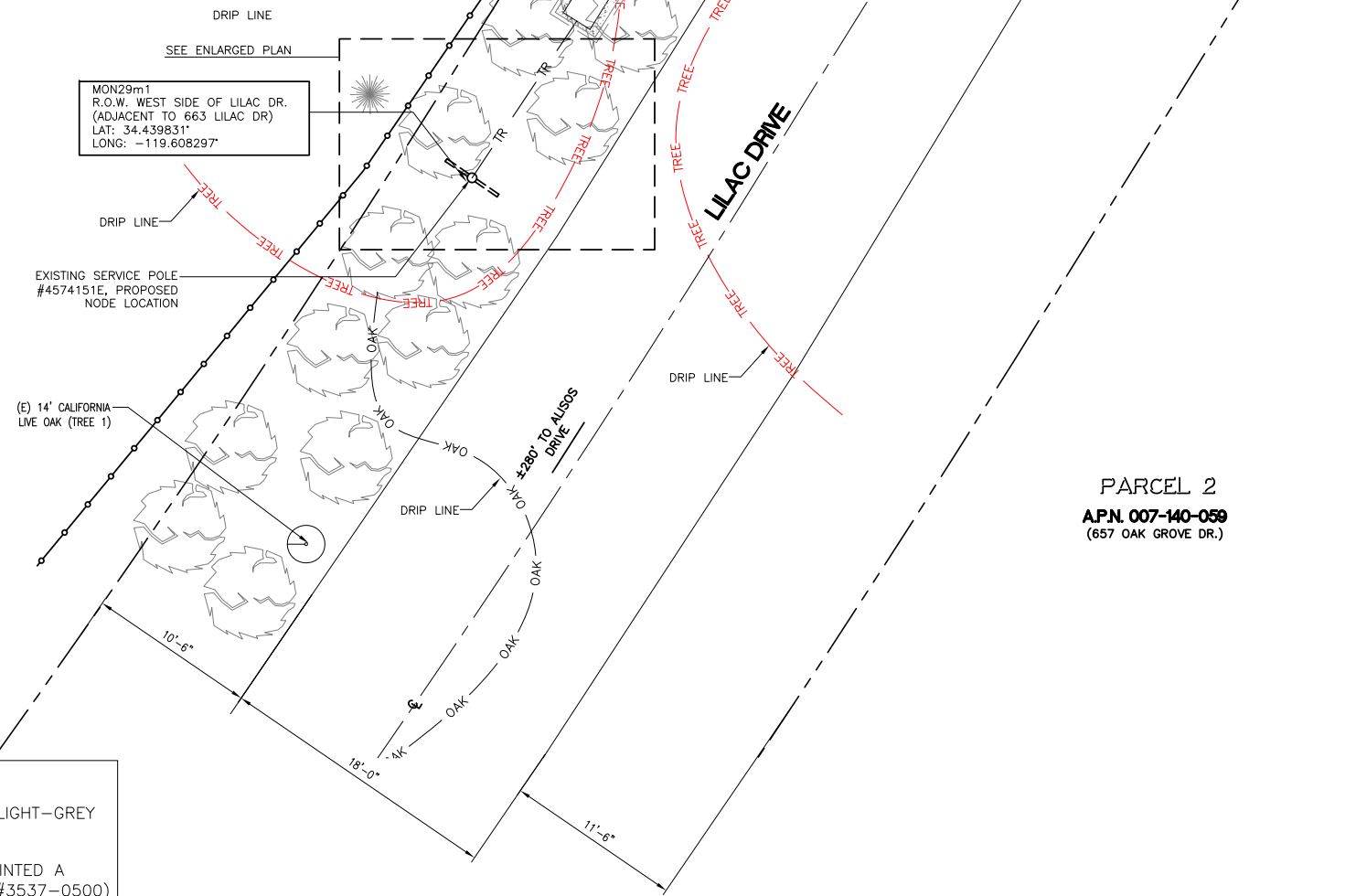
SHEET NUMBER:

1 OF 1 | C-1

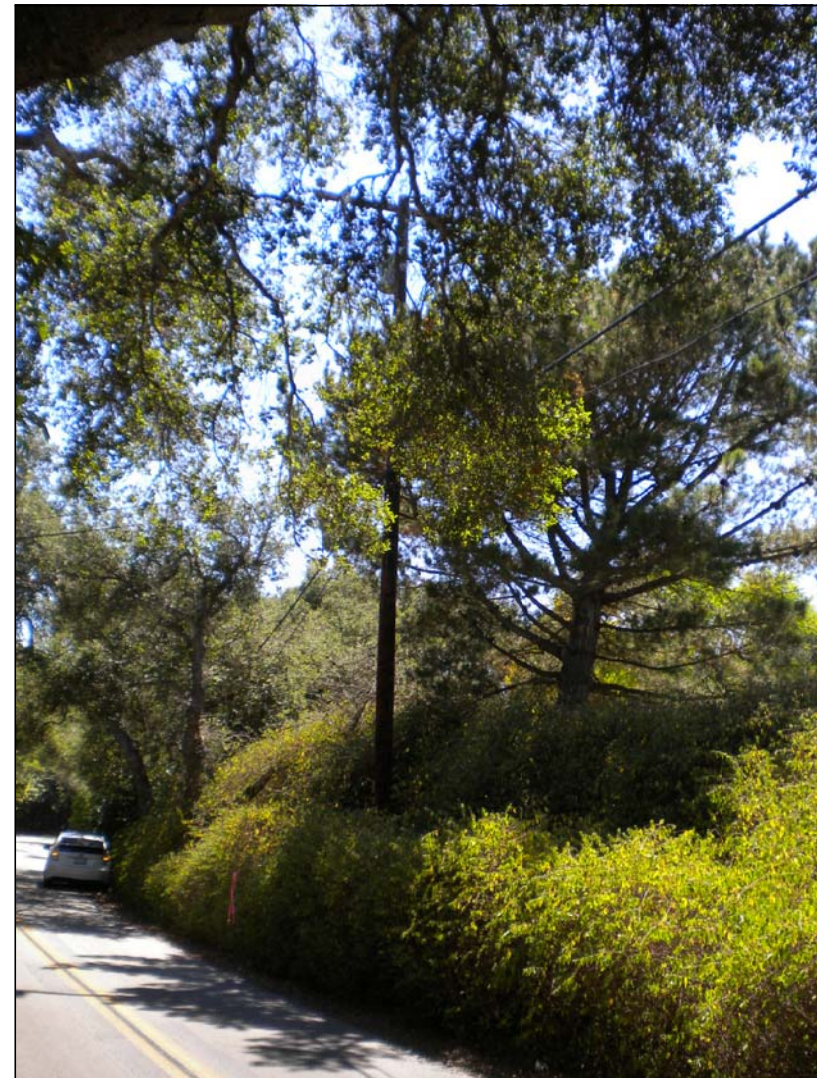
LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊙

NOTE:
TRENCH TO BE HAND DUG.

AP.N. 007-140-002
(663 LILAC DR.)



- NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 09/02/2013	ISSUED FOR REVIEW
1	FXC 11/06/2013	ISSUED FOR REVIEW
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ENGINEER/CONSULTANT:

Civil Engineer



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CONSULTING CIVIL ENGINEERS
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(949) 753-8807 OFFICE • (949) 753-8833 FAX

CLIENT:



STAMP:

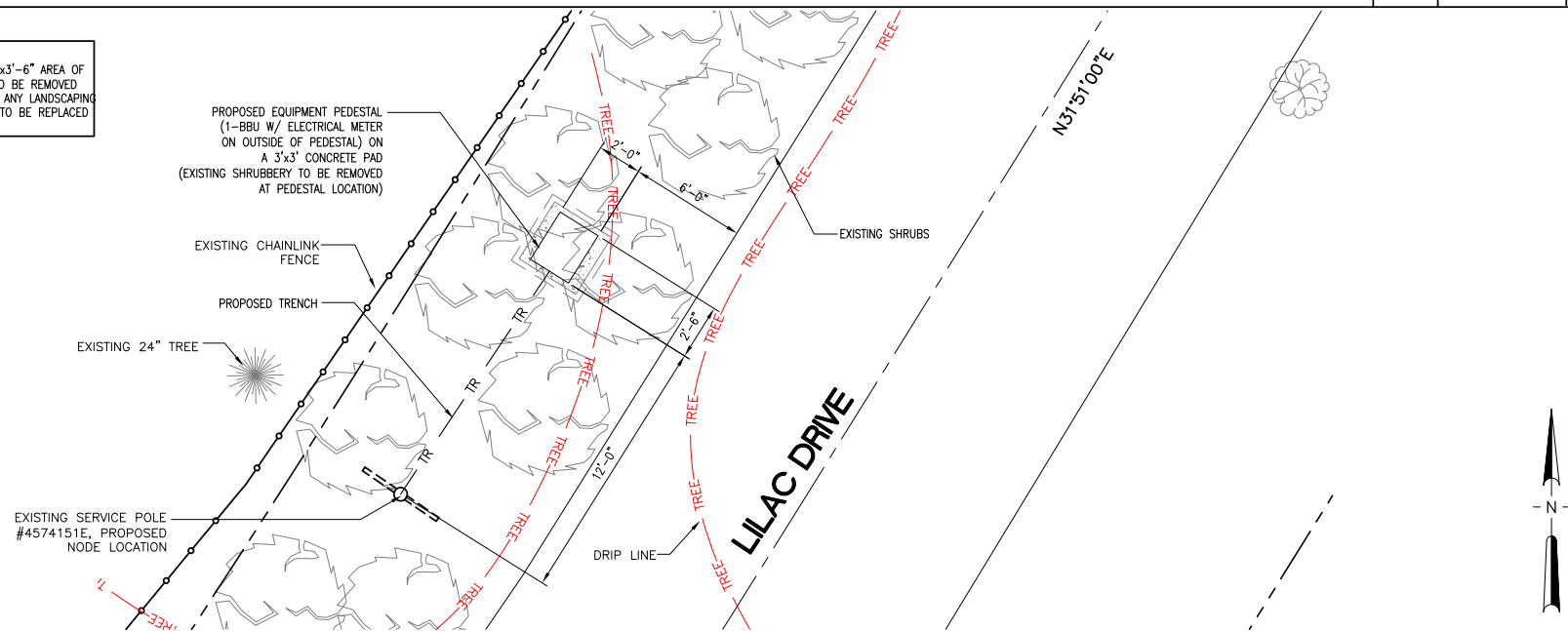
SITE PLAN

SCALE: 1"=10'-0"
0 5' 10'

EXISTING PHOTO

SCALE: 3
N.T.S.

NOTE:
AN APPROXIMATE 3'-6"x3'-6" AREA OF EXISTING SHRUBBERY TO BE REMOVED AT PEDESTAL LOCATION ANY LANDSCAPING THAT IS DISTURBED IS TO BE REPLACED TO MATCH ORIGINAL



ENLARGED SITE PLAN

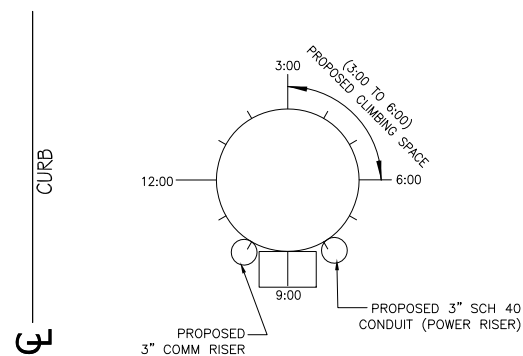
SCALE: 1/4"=1'-0"
0 2' 4'

RISER PROFILE

SCALE: 4
N.T.S.

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.

1-3" CROWN CASTLE RISER @ 8:00
1-3" POWER RISER @ 10:00



SITE INFO:

SITE NAME: MON29m1
VERIZON MONTECITO-MON29m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
R.O.W. WEST SIDE OF LILAC DR
(ADJACENT TO 663 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.439831
LONG: -119.608297

SHEET TITLE:
SITE PLAN AND ELEVATION

DRAWING INFO:
DRAWN BY:
FC

SHEET NUMBER:
A-1

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 09/02/2013	ISSUED FOR REVIEW
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ENGINEER/CONSULTANT:

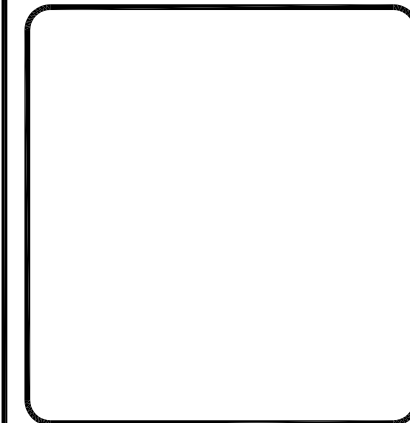
Civil Engineer



CLIENT:



STAMP:



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VERIZON MONTECITO-MON29m1
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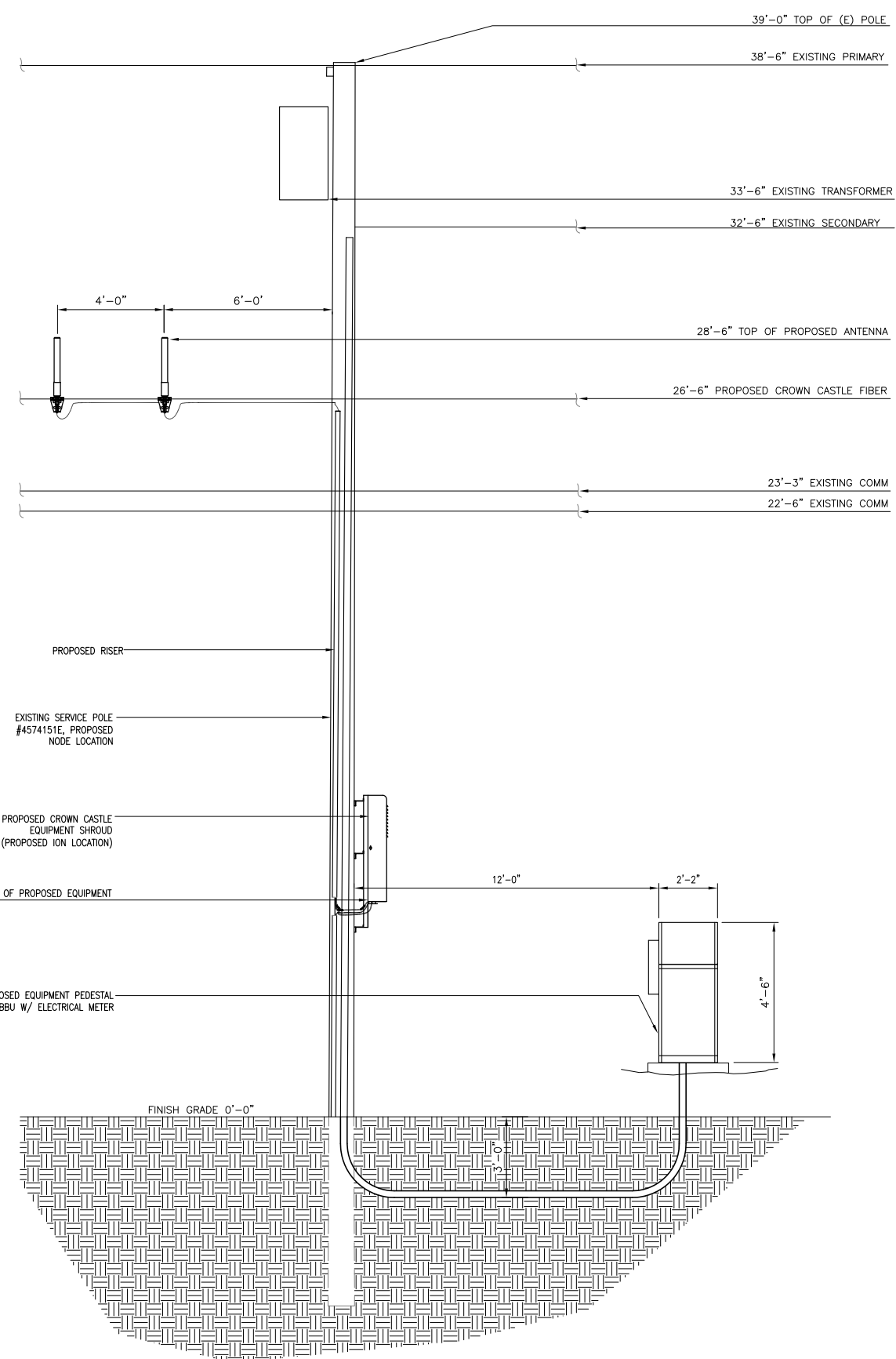
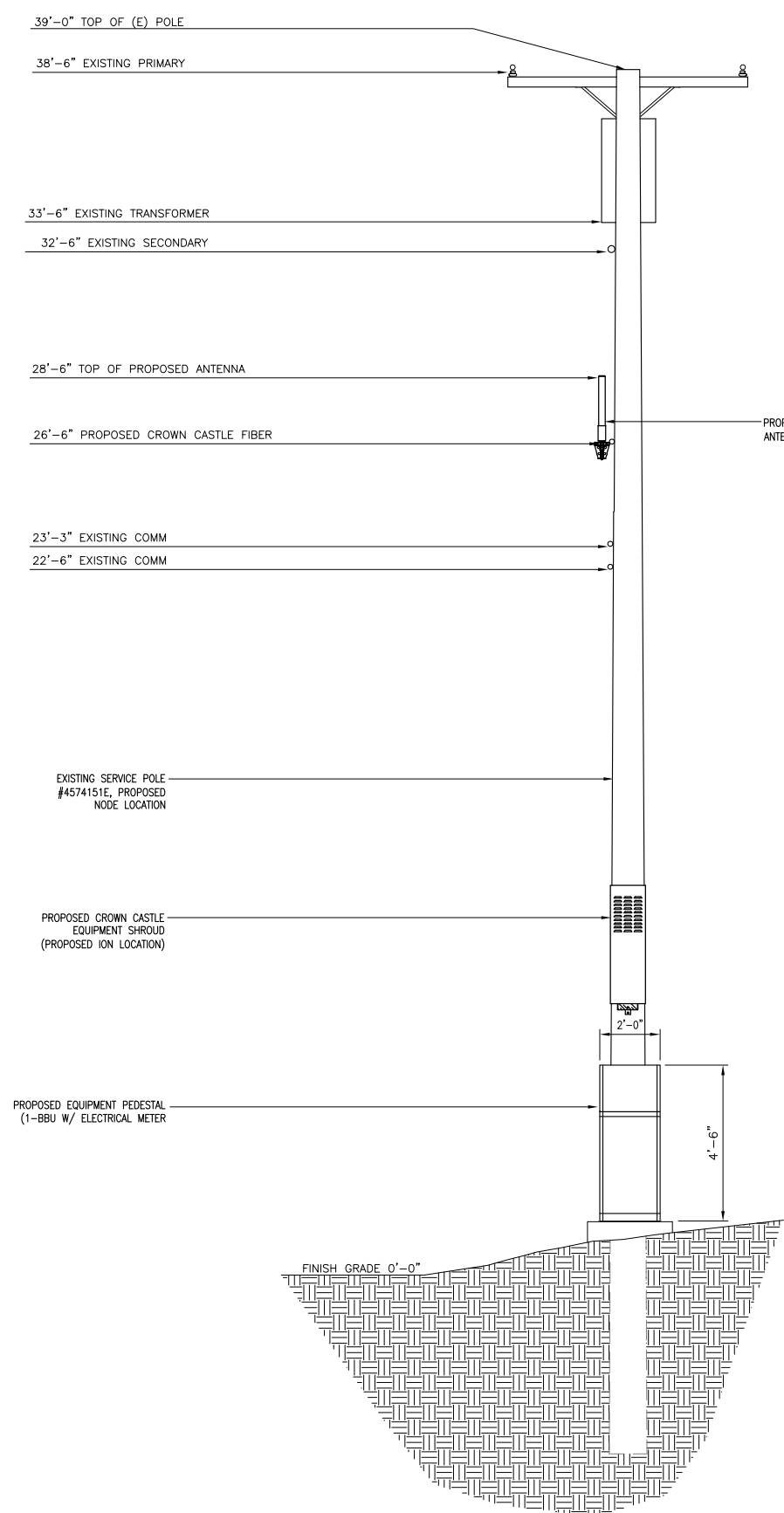
ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-2



NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

Outdoor Omni-directional Antenna

COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

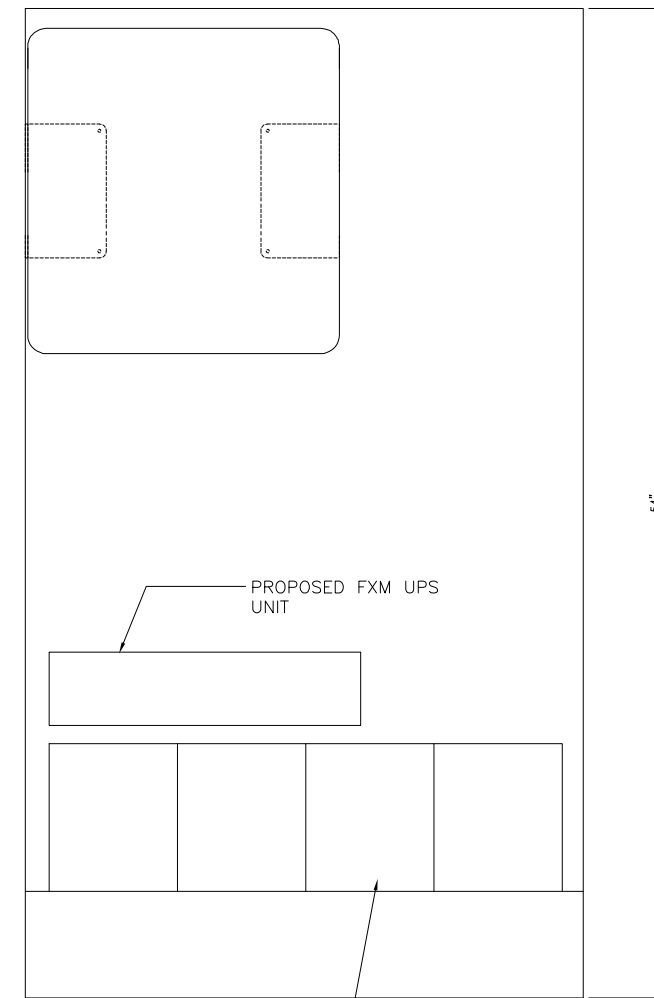
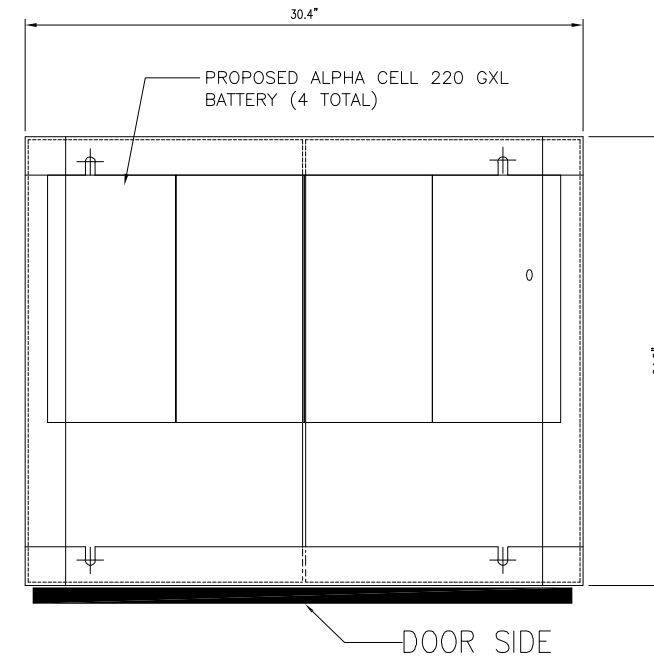
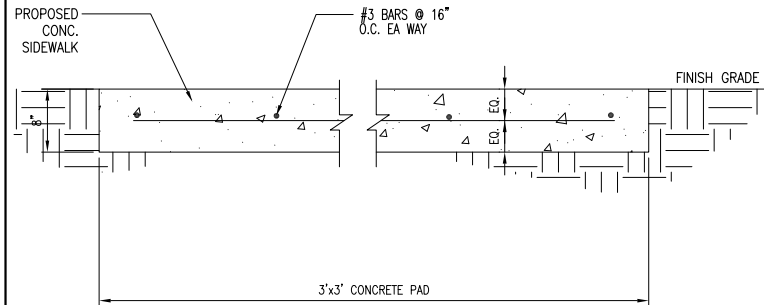
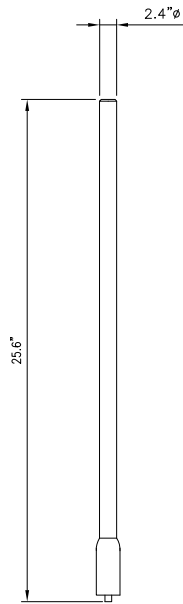
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



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ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8007 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: **MON29m1**
VERIZON MONTECITO-MON29m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
R.O.W. WEST SIDE OF LILAC DR
(ADJACENT TO 663 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.439831
LONG: -119.608297

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-1

ANTENNA SPECIFICATIONS

N.T.S.

1 CONCRETE PAD

N.T.S.

3

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	Uplink	698 to 716/776 to 787
	Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	Uplink	824 to 849
	Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz	Uplink	1850 to 1915
	Downlink	1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33

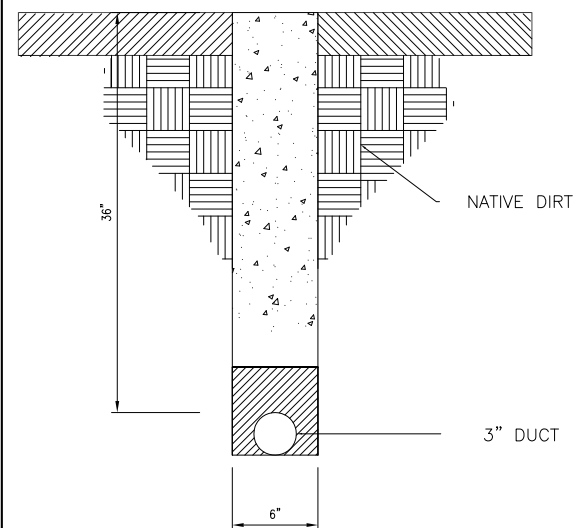


ION-M7P/7P/85P/19P

Noise figure, dB	ICP3 optimized	+10 max.
	Noise figure optimized	+6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
Weight, kg (lb)	40 (88.2)



* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

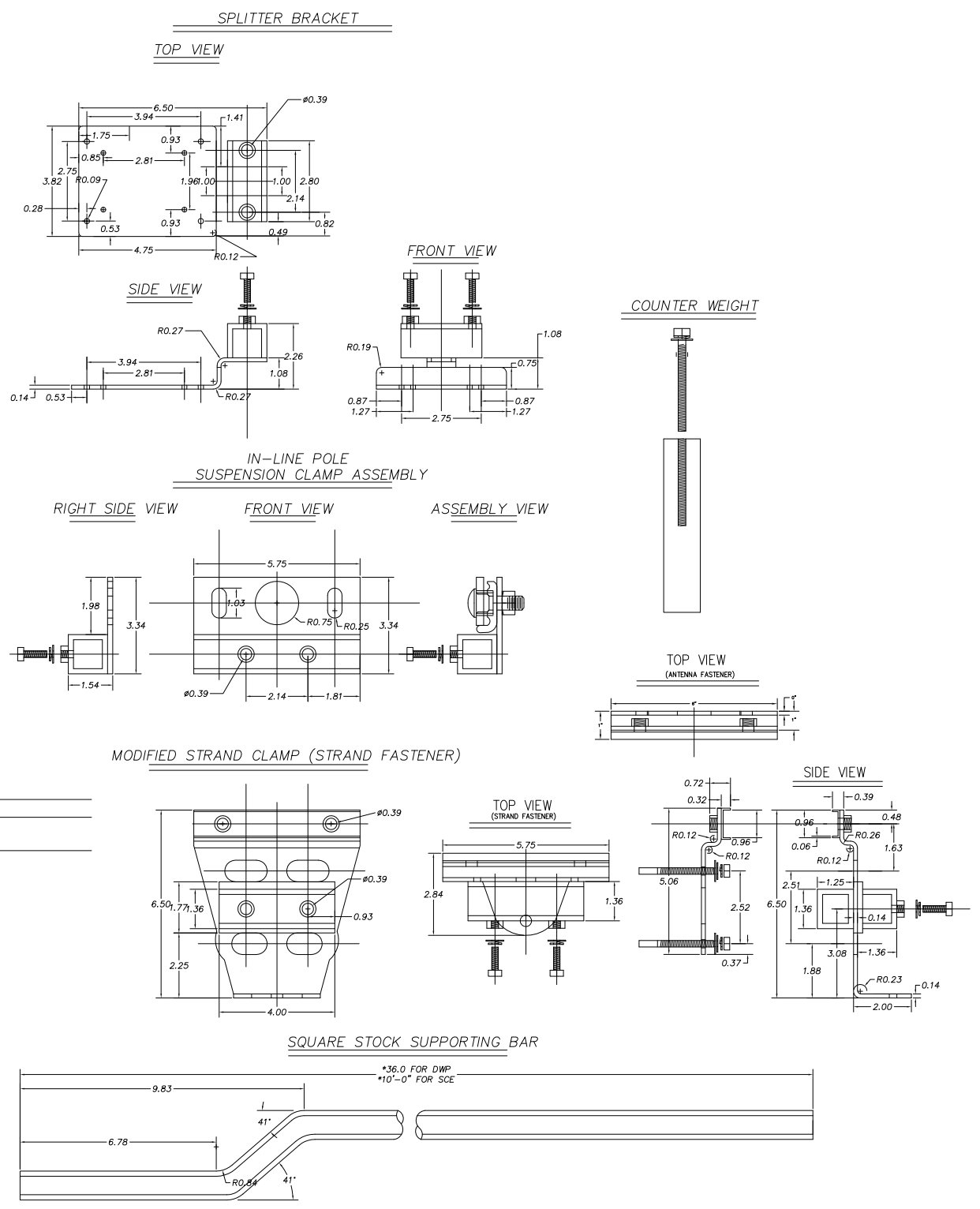
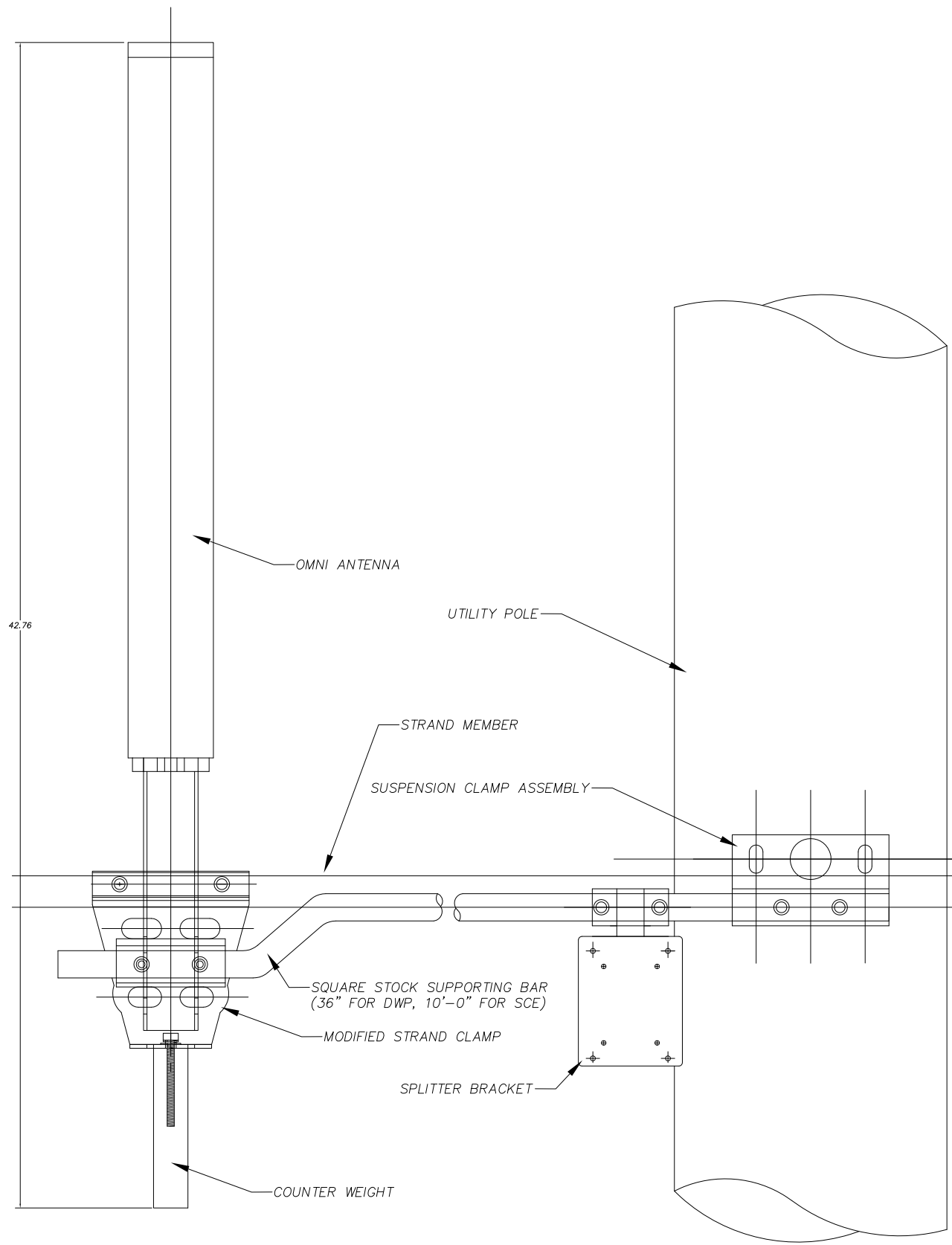
N.T.S.

4

EQUIPMENT PEDESTAL

N.T.S.

5



REV.	DATE/BY:	REVISION DESCRIPTION:
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Civil Engineer

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(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: **MON29m1**
VERIZON MONTECITO-MON29m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
R.O.W. WEST SIDE OF LILAC DR
(ADJACENT TO 663 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.439831
LONG: -119.608297

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 09/02/2013	ISSUED FOR REVIEW
1	FXC 11/06/2013	ISSUED FOR REVIEW
2	FXC 03/08/2013	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

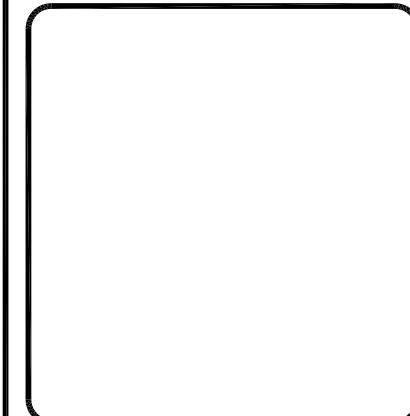


CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME: **MON29m1**
VERIZON MONTECITO-MON29m1
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
R.O.W. WEST SIDE OF LILAC DR
(ADJACENT TO 663 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.439831
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SHEET TITLE:

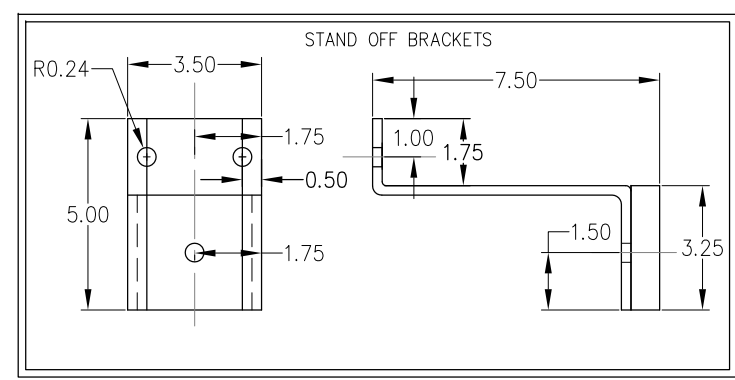
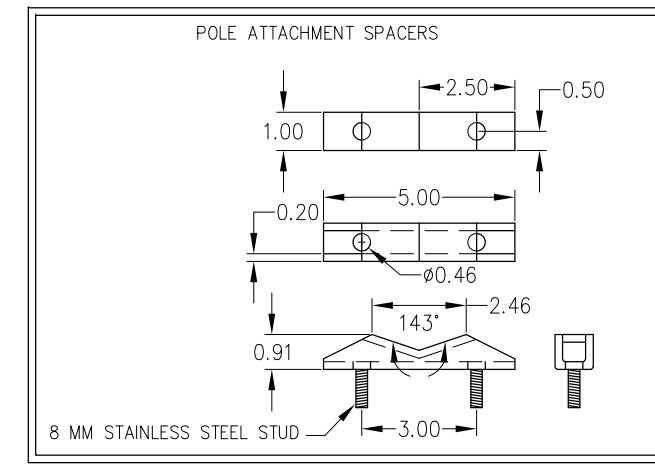
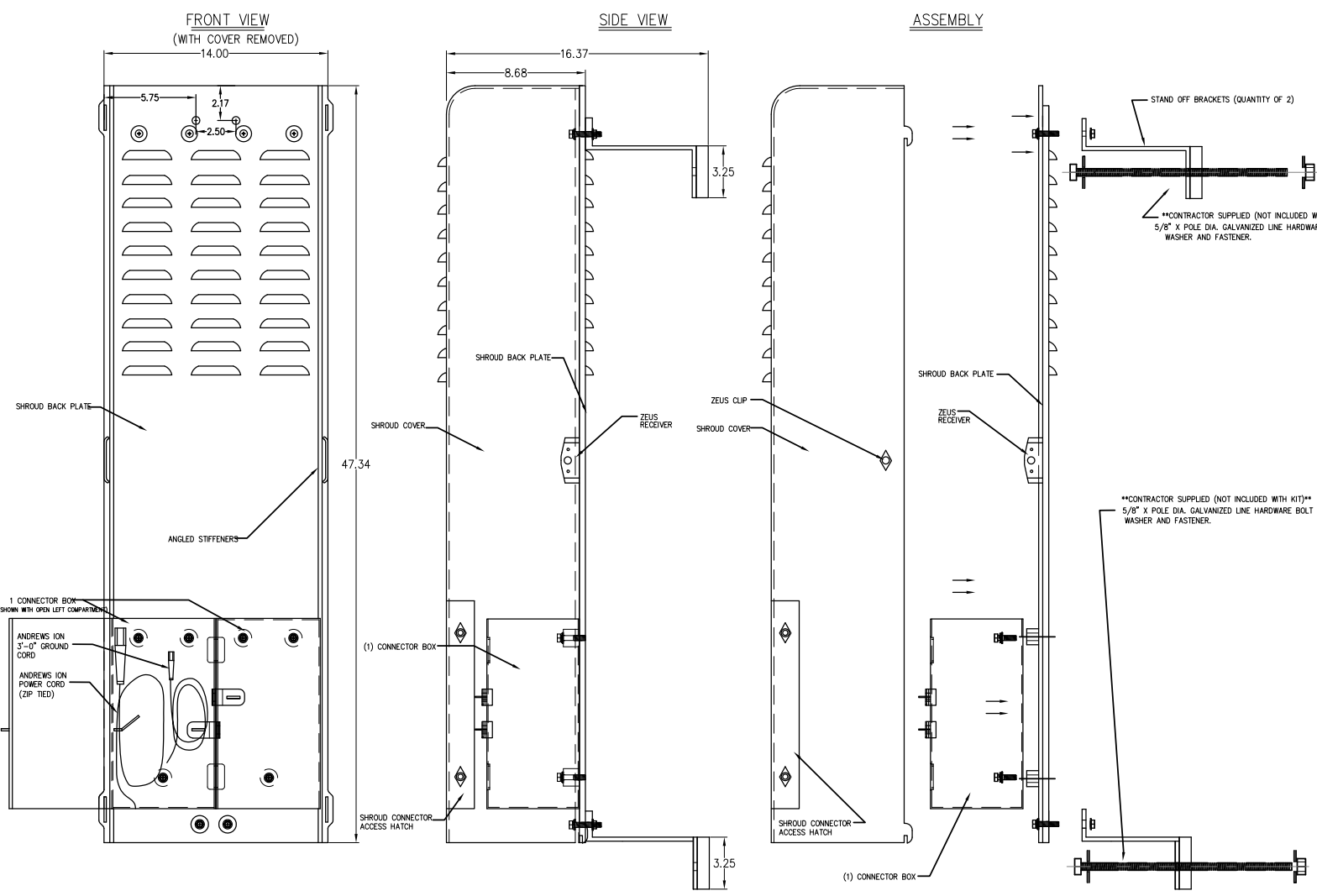
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3



AlphaCell
General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes):	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	Extreme	Extreme
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

Specifications²

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	860
Short Circuit Current (A):	2900	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 90Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	109Ah	100Ah	84
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.6	63/28.6
Height w/ Terminals (in/mm):	9.49/215.4	9.49/215.4	8.05/204.5
Width (in/mm):	13.42/340.6	13.42/340.9	12.5/317.8
Depth (in/mm):	6.60/172.7	6.80/172.7	6.63/173.4
Operating Temperature Range Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Float Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

Notes:
¹Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
²Runtime is calculated using a 25A DC constant current load.
³Dimensions at top of battery.
⁴See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

AC/DC Voltage	4A	6A	8A	10A	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A
102.5Vdc	330	195	165	230	195	165	230	195	165	230	195	165	230	195
3 batteries	530	450	390	330	285	249	230	206	183	160	135	114	95	84
4 batteries	701	625	540	444	386	340	329	293	259	201	172	143	120	103
6 batteries	1061	979	820	701	625	540	523	495	407	418	372	325	285	245
8 batteries	1437	1338	1185	1009	899	796	720	643	562	577	515	450	395	340
9 batteries	1696	1599	1422	1201	1078	953	820	733	640	659	587	514	450	395
102.5Vdc	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A	32A	34A	36A	38A
3 batteries	149	132	115	119	108	92	101	89	77	87	78	69	60	51
4 batteries	210	187	165	169	151	132	144	128	112	124	111	99	87	76
6 batteries	359	301	264	275	245	214	236	209	188	204	182	160	140	120
8 batteries	478	419	367	385	341	299	329	295	259	288	255	223	195	167
9 batteries	533	473	419	440	391	342	377	335	294	329	293	258	223	188
102.5Vdc	6A	8A	10A	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A	32A
3 batteries	798	712	622	538	453	369	377	335	294	300	267	233	200	167
4 batteries	1061	979	890	791	695	599	623	495	407	418	372	325	285	245
6 batteries	1696	1599	1422	1201	1078	953	820	733	640	659	587	514	450	395
8 batteries	2388	2207	1928	1669	1488	1305	1122	1008	877	904	809	706	625	544
9 batteries	2900	2665	2307	1993	1769	1522	1323	1181	1037	1079	951	821	718	625
102.5Vdc	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A	32A	34A	36A	38A
3 batteries	242	215	188	186	174	151	166	146	125	144	129	107	90	73
4 batteries	359	301	264	275	245	214	236	209	188	204	182	160	140	120
6 batteries	533	473	419	440	391	346	377	335	294	329	293	258	223	188
8 batteries	741	680	617	637	541	473	523	465	402	458	407	351	300	250
9 batteries	843	753	678	692	617	538	597	531	462	523	465	405	350	295

*Above calculations based on an AC load with a 90 cycle plant power factor.
 For contact information visit www.alpha.com

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GENERAL NOTES

- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNA ON EXISTING UTILITY POLE
2. EQUIPMENT SHROUD ON EXISTING POLE
3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

TITLE SHEET	T-1 - SHEET 1 OF 7
SITE PLAN	A-1 - SHEET 2 OF 7
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 7
DETAILS	D-1 - SHEET 4 OF 7
DETAILS	D-2 - SHEET 5 OF 7
DETAILS	D-3 - SHEET 6 OF 7
DETAILS	D-4 - SHEET 7 OF 7

CROWN CASTLE NG WEST, LLC

VERIZON MONTECITO-MON31m1

R.O.W. SOUTH SIDE OF TOLLIS AVE.

(ADJACENT TO 395 OLIVE RD)

SANTA BARBARA, CA 93108



<ul style="list-style-type: none"> —+— GROUND BUS BAR ● MECH. GRND. CONN. —•— CADWELD [E] ELECTRIC BOX [T] TELEPHONE BOX ⊗ EXISTING SERVICE POLE ⊗ SIDEWALK FLAG ⊙ EX. MANHOLE 	<ul style="list-style-type: none"> ☀ LIGHT POLE ○ FOUNDATION ⊕ SPOT ELEV. ⊕ SET POINT ⚠ REVISION ⊙ DETAIL REF. 	<ul style="list-style-type: none"> △ ELEVATION REF. ⊕ SECTION REF. --- PROP./LEASE LINE —●— MATCH LINE ⊕ WORK POINT —T— TELE. CONDUIT --- CENTERLINE 	<ul style="list-style-type: none"> —E— ELECT. CONDUIT —A— COAXIAL CABLE □ MYERS PEDESTAL VAULT STANDARD 2'X3' ● STEEL POLE
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EROSION AND SEDIMENT CONTROL NOTES

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
 - FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
 - FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
 - THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
 - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
 - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
 - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
 - ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
 - GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
 - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
 - THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
 - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF TOLLIS AVE. (ADJACENT TO 395 OLIVE RD) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, LLC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON31m1
VERIZON MONTECITO-MON31m1

SITE ADDRESS: THOMAS BROS PAGE 993 GRID B1
R.O.W. SOUTH SIDE OF TOLLIS AVE.
(ADJACENT TO 395 OLIVE RD)
SANTA BARBARA, CA 93108
LAT: 34.4424144°
LONG: -119.6105036°

SHEET TITLE:

TITLE SHEET

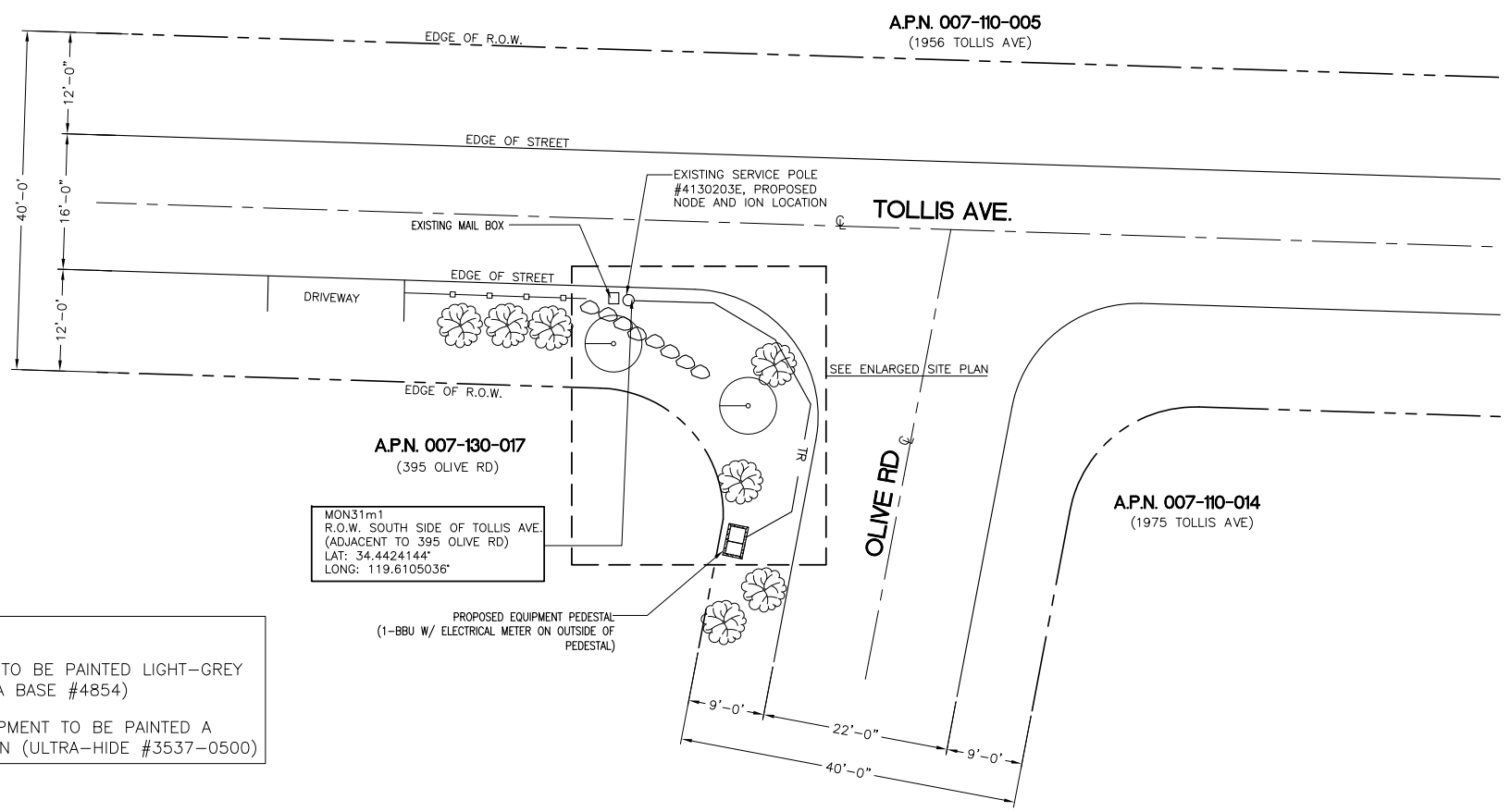
DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1

LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊙

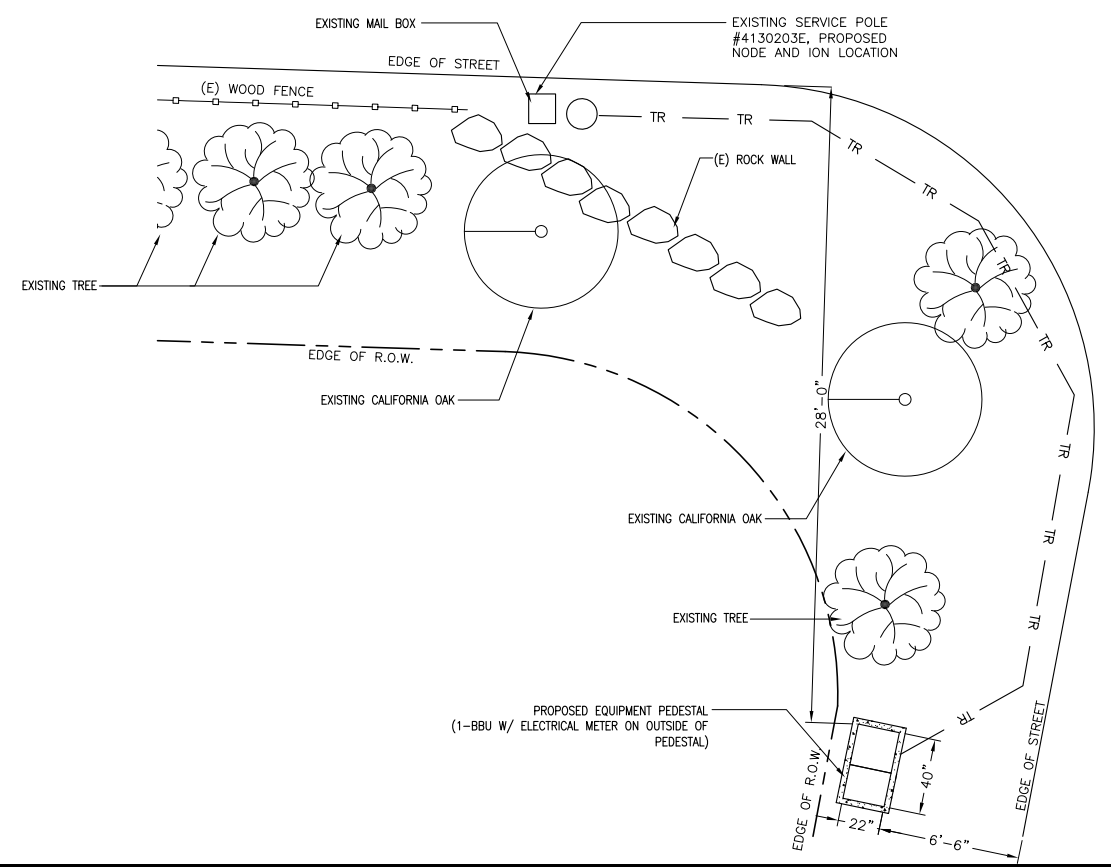


NOTE:
 1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

MON31m1
 R.O.W. SOUTH SIDE OF TOLLIS AVE.
 (ADJACENT TO 395 OLIVE RD)
 LAT: 34.4424144°
 LONG: 119.6105036°

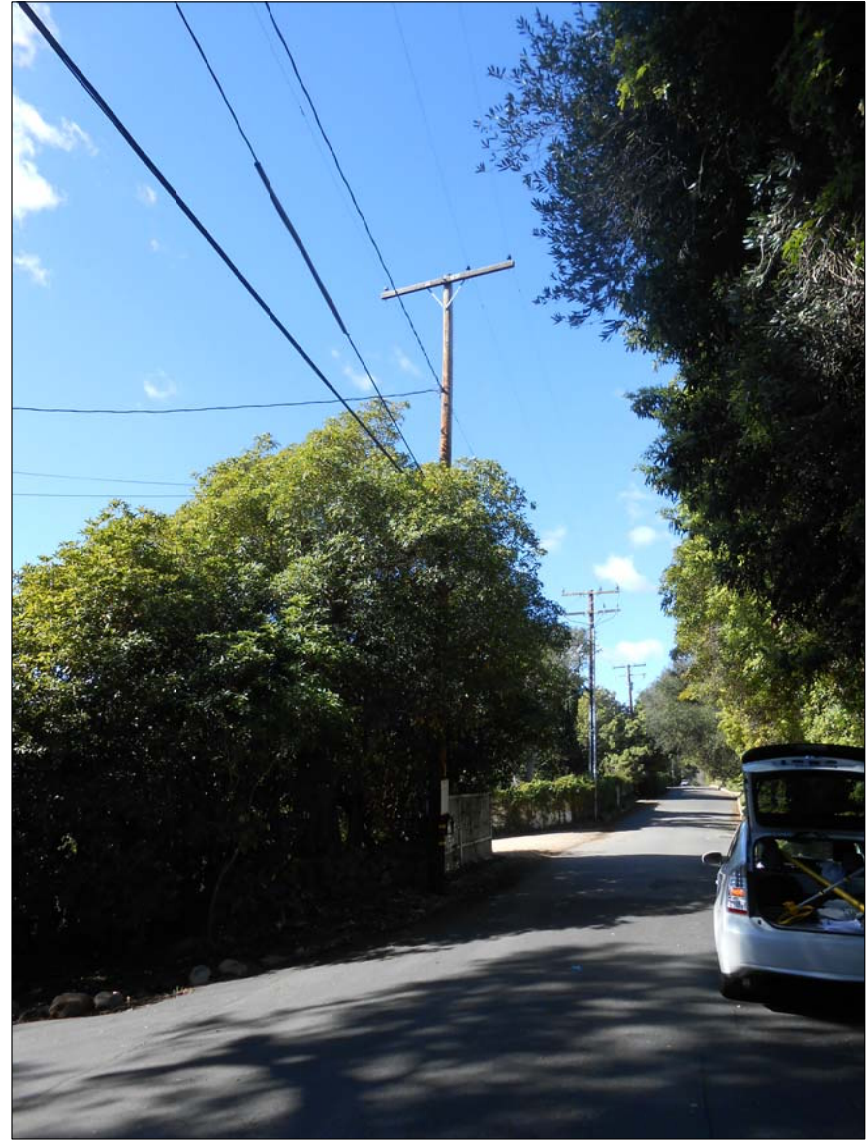
SITE PLAN

SCALE: 1"=10'-0" 1



ENLARGED SITE PLAN

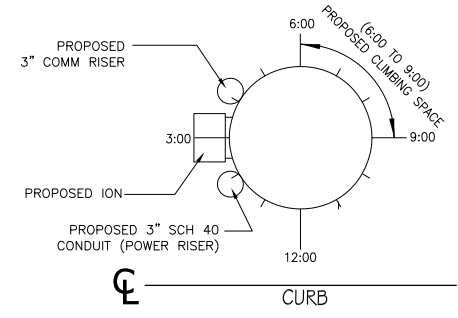
SCALE: 1/4"=1'-0" 2



EXISTING PHOTO

SCALE: N.T.S. 3

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.
 1-3" CROWN CASTLE RISER @ 4:00
 1-3" POWER RISER @ 2:00



RISER PROFILE

SCALE: N.T.S. 2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:
 Civil Engineer

CONNELL DESIGN GROUP, LLC
 CONSULTING CIVIL ENGINEERS
 26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
 (949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
 NG WEST, INC.

STAMP:

SITE INFO:
 SITE NAME: **MON31m1**
 VERIZON MONTECITO-MON31m1
 SITE ADDRESS: THOMAS BROS PAGE 993 GRID B1
 R.O.W. SOUTH SIDE OF TOLLIS AVE.
 (ADJACENT TO 395 OLIVE RD)
 SANTA BARBARA, CA 93108
 LAT: 34.4424144°
 LONG: -119.6105036°

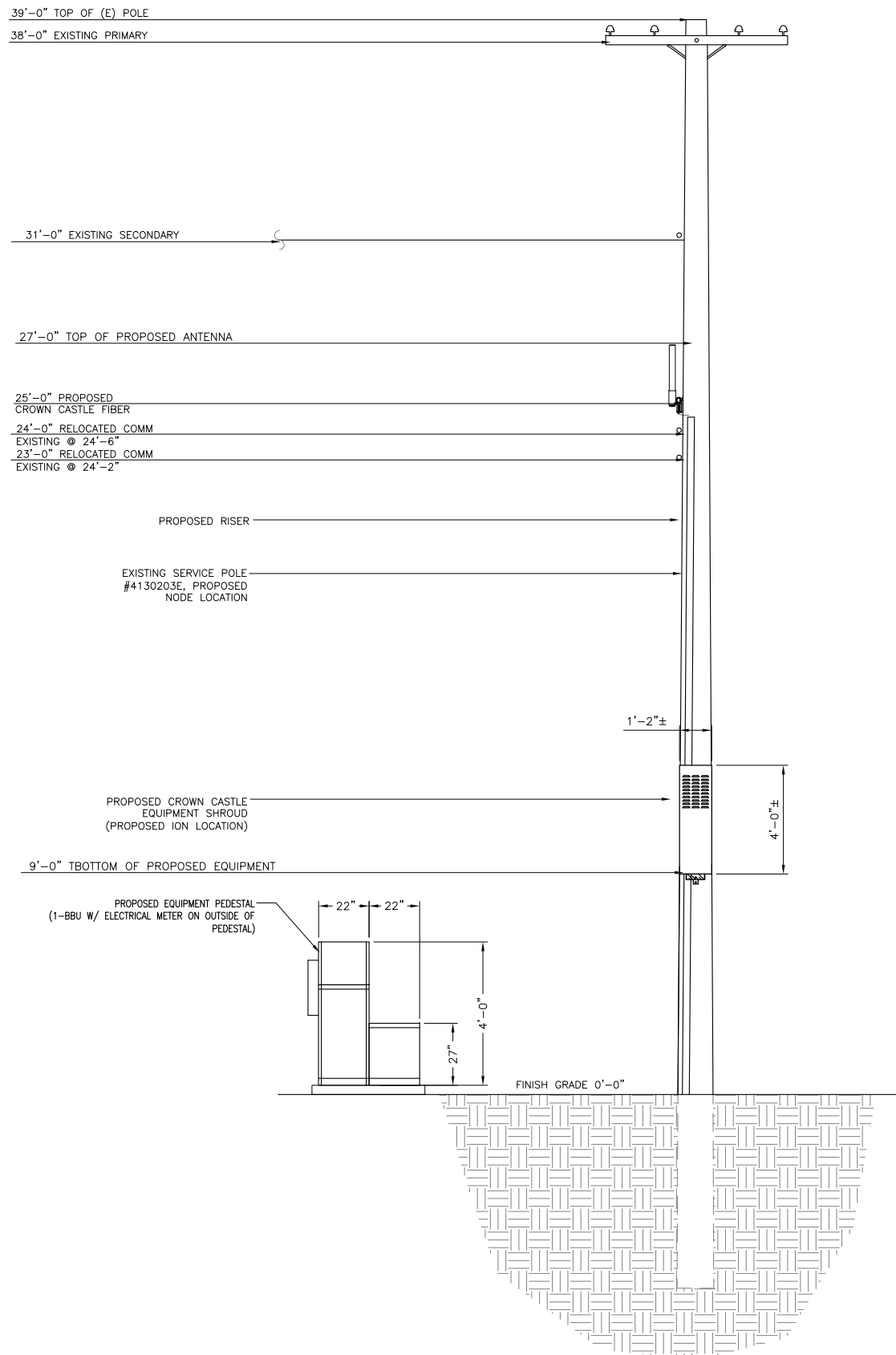
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SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

DRAWING INFO:
 DRAWN BY:
 FC

SHEET NUMBER:

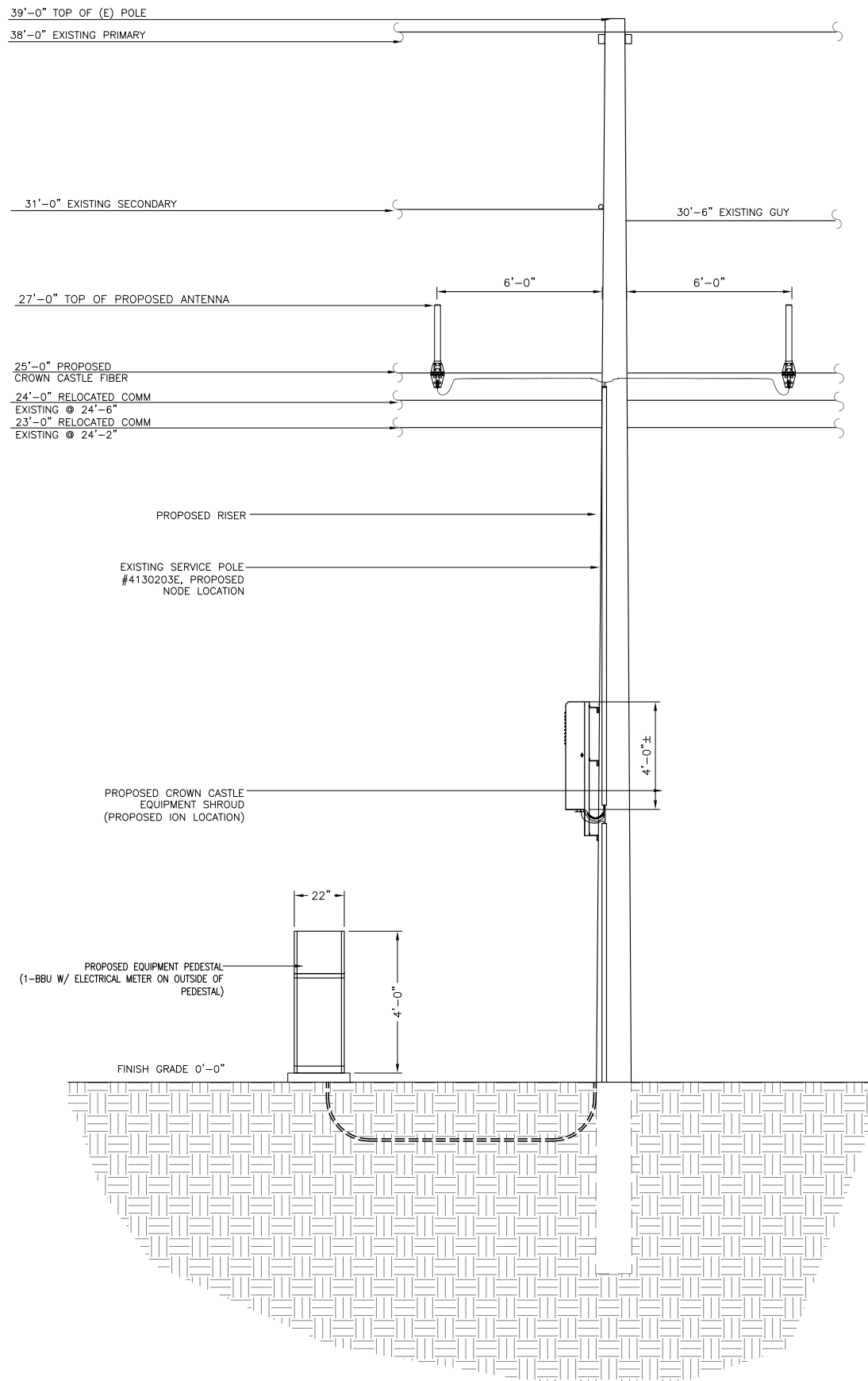
A-1

NOTE:
 1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



PROPOSED ELEVATION LOOKING WEST

SCALE: 3/8"=1'-0" 0 1' 2' 3' 1



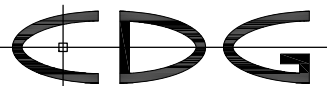
PROPOSED ELEVATION LOOKING SOUTH

SCALE: 3/8"=1'-0" 0 1' 2' 3' 2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:

Civil Engineer



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CLIENT:



CROWN CASTLE
 NG WEST, INC.

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SITE NAME: **MON31m1**
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 (ADJACENT TO 395 OLIVE RD)
 SANTA BARBARA, CA 93108
 LAT: 34.4424144°
 LONG: -119.6105036°

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
 FC

SHEET NUMBER:

A-2

Outdoor Omni-directional Antenna



OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

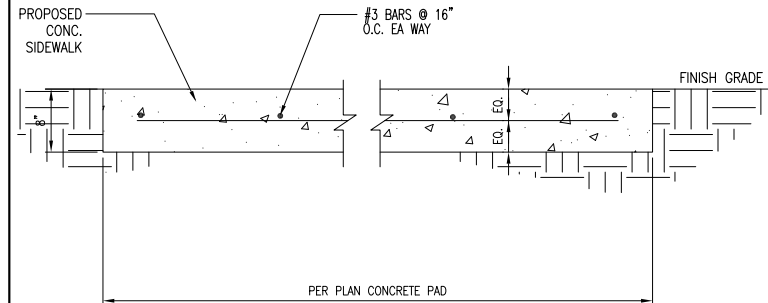
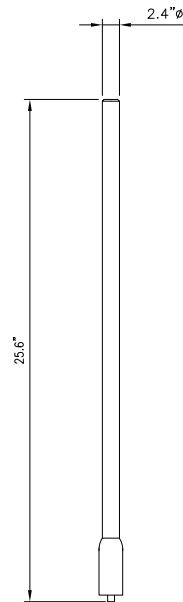
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wnd Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply		115 or 230
Mains power, Vac		
Power consumption, Watts		1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz		Uplink: 698 to 716/776 to 787	Downlink: 728 to 757
----------------------	--	-------------------------------	----------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz		Uplink: 824 to 849	Downlink: 869 to 894
----------------------	--	--------------------	----------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz		Uplink: 1850 to 1915	Downlink: 1930 to 1995
----------------------	--	----------------------	------------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



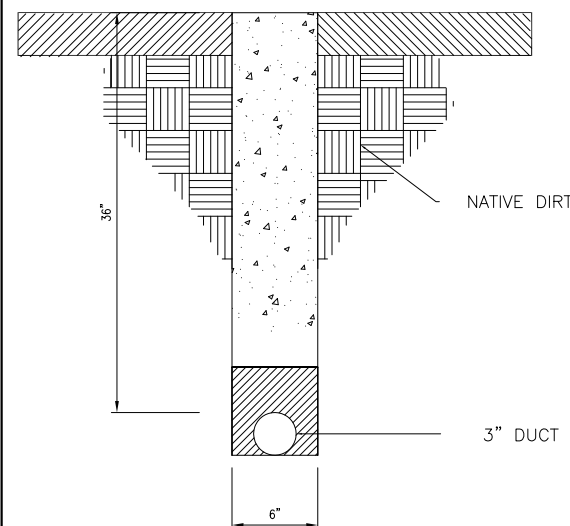
ION-M7P/7P/85P/19P

Noise figure, dB		ICP3 optimized: +10 max.
		Noise figure optimized: +6 max.
		4.5 typical

Mechanical****

Height, width, depth, mm (in)		817 x 245 x 218 (32.2 x 9.6 x 8.6)
-------------------------------	--	------------------------------------

Weight, kg (lb)		40 (88.2)
-----------------	--	-----------



* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

N.T.S.

4

PEDESTAL SPECIFICATIONS

N.T.S.

5

POWER MMOE - Telecom

Multi Mount Outdoor Enclosure



- > Compact enclosure design provides ideal fit for locations where aesthetics are important
- > Light-weight powder coated aluminum construction offers superior corrosion resistant properties
- > Large sun shield, reduces solar heat loading inside the cabinet
- > 180° stainless steel piano-hinged door (with two locking open positions) make installation and maintenance easy and convenient
- > Thermostat controlled filtered fan cooling and louvered vents ensure reliable operation in high temperature environments
- > Various mounting options (including pole mount) make this highly versatile in space constrained mobile broadband applications

Alpha's Multi Mount Outdoor Enclosure (MMOE) - Telecom, is a cost-effective and versatile enclosure ideal for space constrained locations. The Multi Mount can be pole, wall or pedestal mounted and can accommodate Alpha's FXM UPO and up to four AlphaCell™ 5500L or 1000 GDL front terminal batteries. With a small form factor, the Multi Mount is the perfect choice for locations where confined space necessitates creative installation options.

Alpha Multi Mount Outdoor Enclosure - Telecom

Consult your Alpha representative for full configurations

Mechanical	Enclosure options
Dimensions: 267H x 550W x 45TD	Mounting: Pole, wall, or pedestal (please specify if pole used to concrete at time of order)
Finish: 27.5kg (60lbs)	
Construction: High strength corrosion resistant aluminum	
Equipment space: EIA standard 19" 8RU space with one battery shelf	
Cable entrance: Bottom of enclosure: 1 x 3" diameter knock-out (21W trade size) 4 x 1.125" diameter knock-out (1W trade size)	
Hinge type: Stainless steel piano hinge	
Door prep: Aluminum rod, 2 locking open positions	
Door latch: Ballbeats 21g compression lock with passlock brooket	
HVAC Specifications	System Options
Cooling: Thermostat controlled active fan, 100 cfm or better, On at 80° (100°) Off at 62° (80°) Equipped with spin barrier	<ul style="list-style-type: none"> Alpha AC distribution panel Alpha universal automatic transfer switch Alpha universal generator transfer switch AlphaGuard battery balancer Battery heater mats Transient voltage surge suppression device
	Agency Compliance
	Telecordia: GR-13 COME
	NEMA rating: 3R



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON31m1

VERIZON MONTECITO-MON31m1

SITE ADDRESS: THOMAS BROS PAGE 993 GRID B1
R.O.W. SOUTH SIDE OF TOLLIS AVE.
(ADJACENT TO 395 OLIVE RD)
SANTA BARBARA, CA 93108
LAT: 34.4424144°
LONG: -119.6105036°

SHEET TITLE:

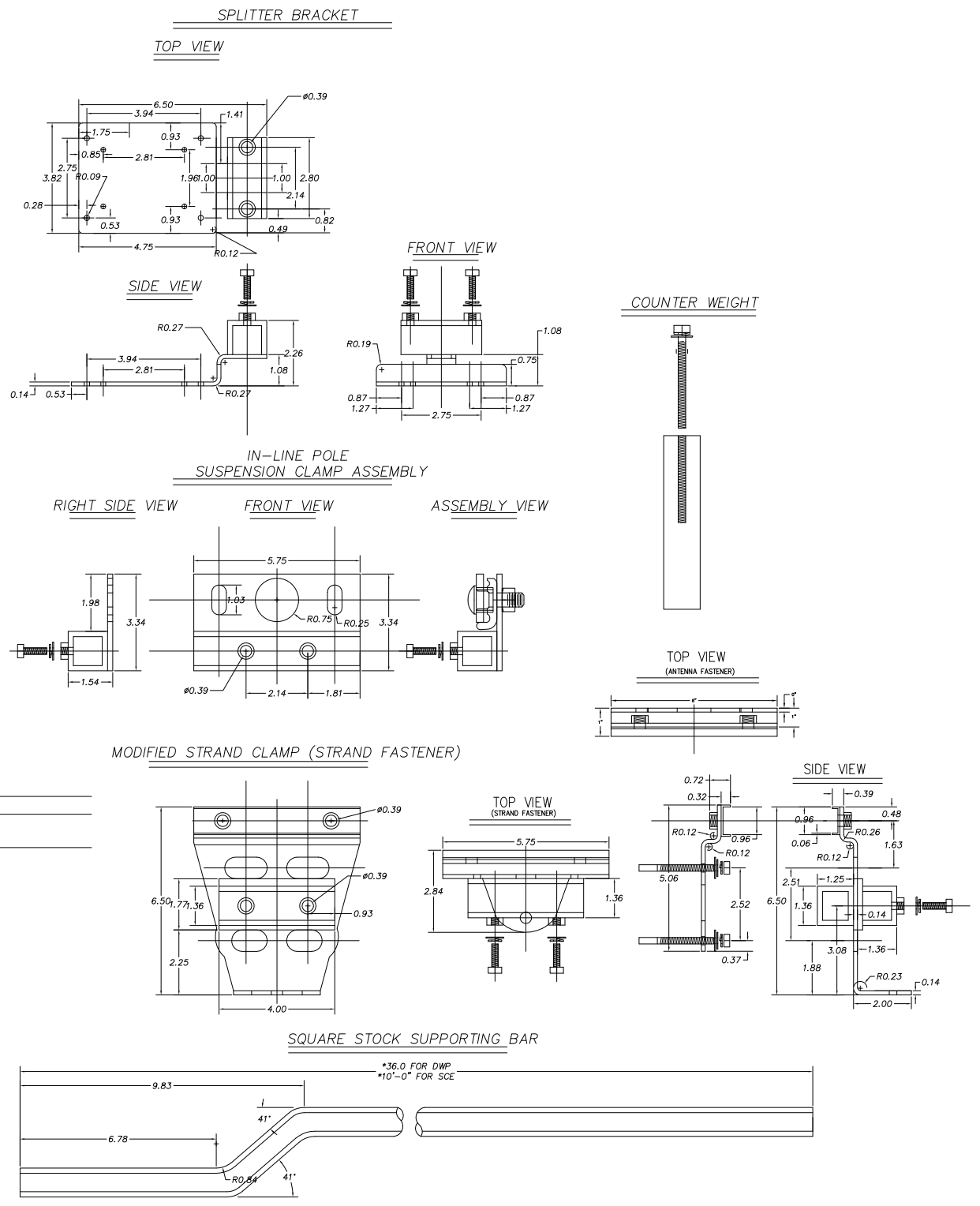
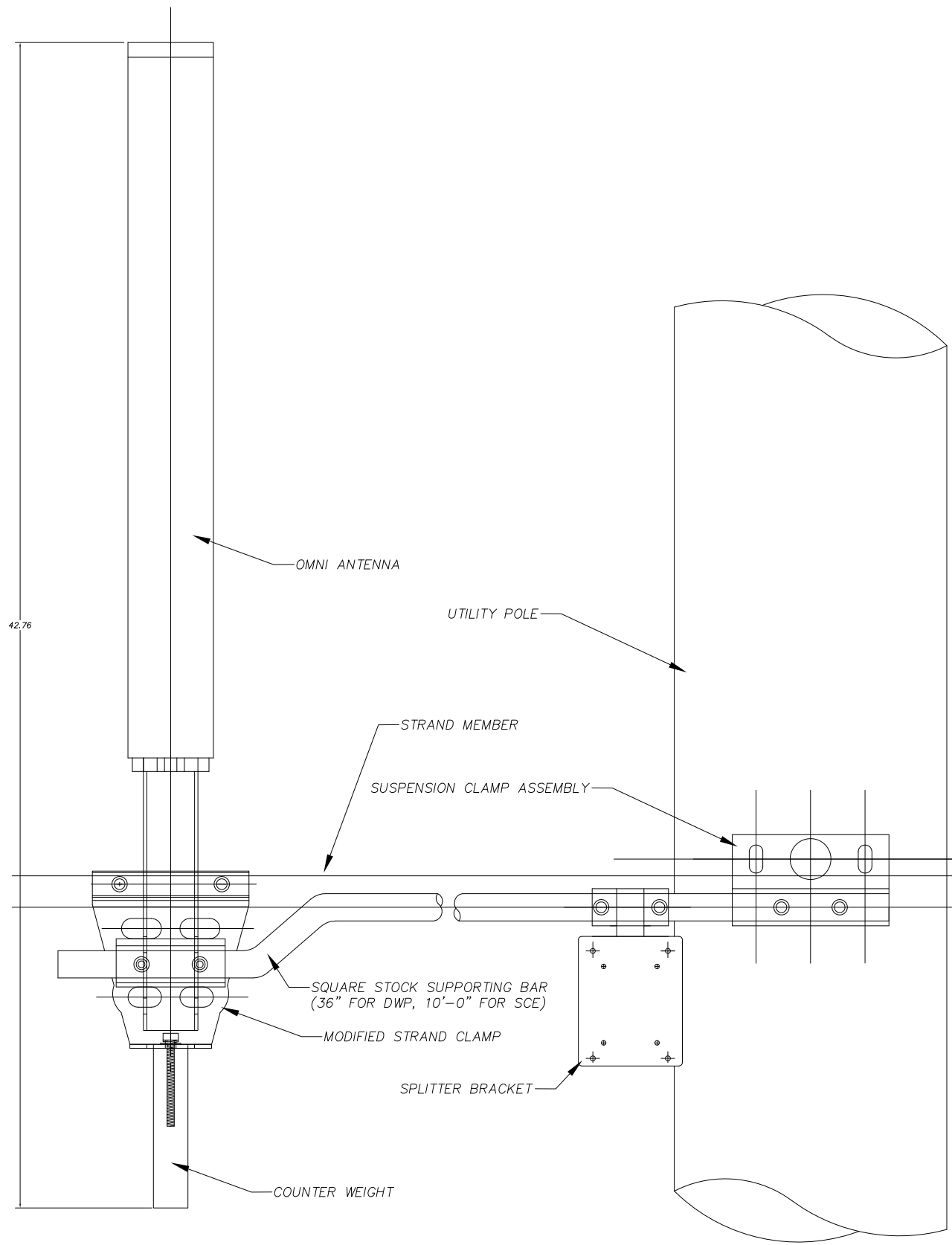
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DRAWN BY: FC

SHEET NUMBER:

D-1



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CDG
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DRAWN BY:
FC

SHEET NUMBER:
D-2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:

Civil Engineer

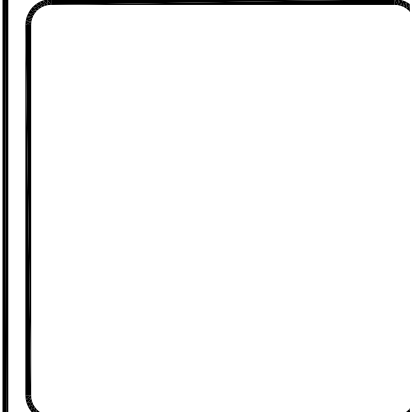


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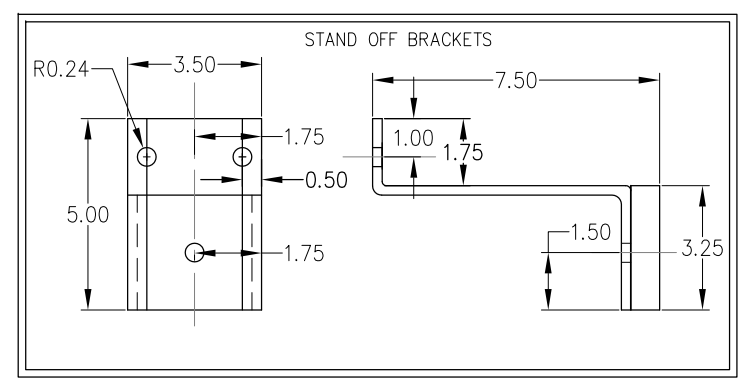
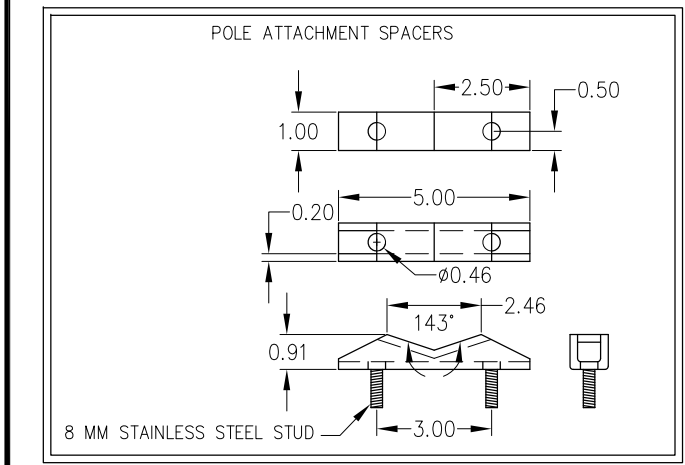
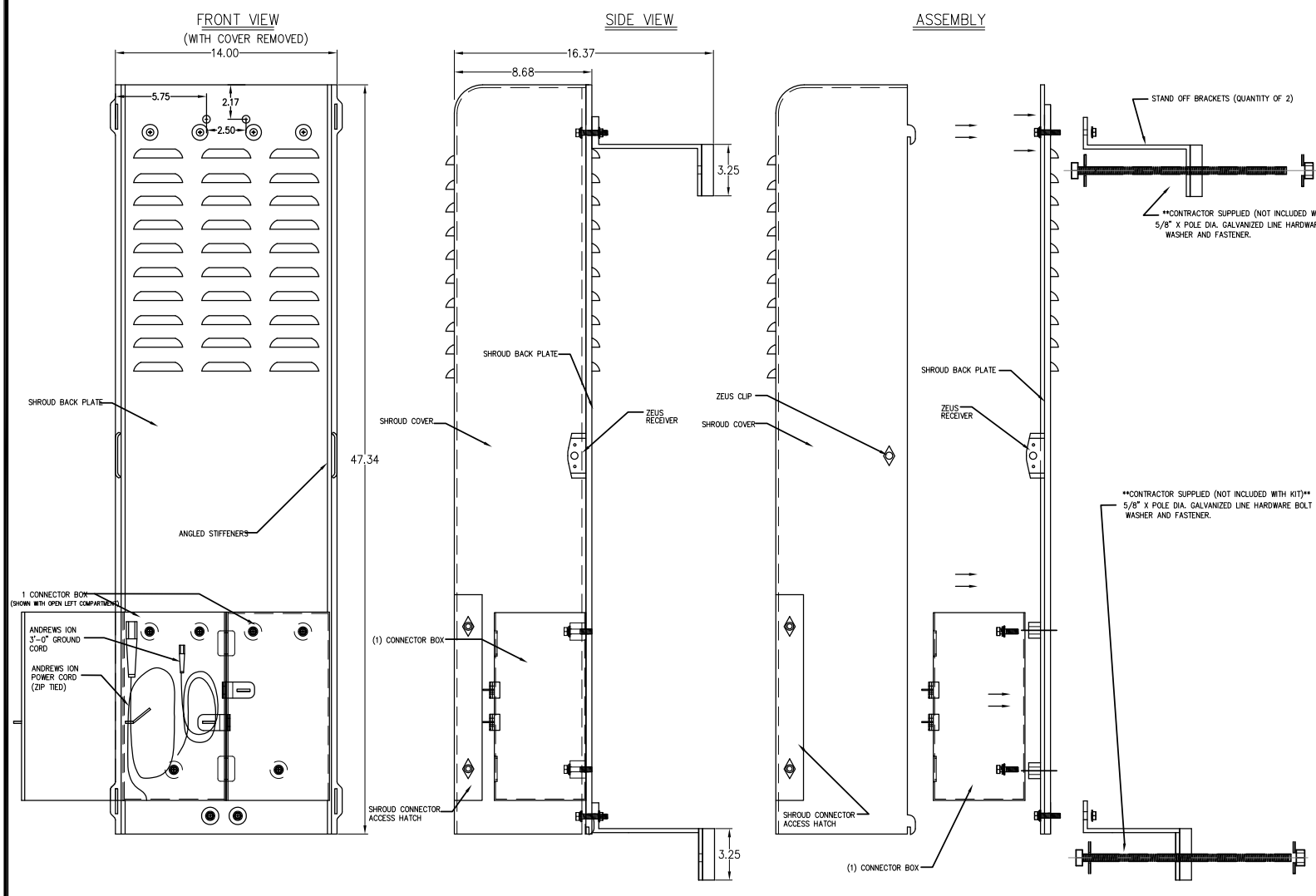
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DRAWN BY:
FC

SHEET NUMBER:

D-3



AlphaCell
General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes):	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	Extreme	Extreme
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

Specifications²

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 90Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	9.48/215.4	9.48/215.4	9.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.5/317.8
Depth (in/mm):	6.60/172.7	6.60/172.7	6.63/173.4
Operating Temperature Range:	-40 to 71°C	-40 to 71°C	-40 to 71°C
Discharge:	(-40 to 150°F)	(-40 to 150°F)	(-40 to 150°F)
Charge (with temp compensation):	-23 to 60°C	-23 to 60°C	-23 to 60°C
Float Charging Voltage (Vdc):	(-9.4 to 140°F)	(-9.4 to 140°F)	(-9.4 to 140°F)
AC Ripple Charger:	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8

Notes:
¹Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
²Runtime is calculated using a 25A DC constant current load.
³Dimensions at top of battery.
⁴See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model/Voltage	4A	5A	6A	8A	10A	12A	15A	20A	25A	30A	35A	40A
220Vdc/220Ah	330	195	165	230	195	165	230	195	165	230	195	165
3 batteries	500	450	300	320	265	240	230	200	180	180	165	144
4 batteries	701	625	540	444	360	340	320	280	250	201	202	203
6 batteries	1061	879	820	701	625	540	520	405	407	418	372	325
8 batteries	1437	1138	1095	969	859	750	730	643	582	577	515	450
9 batteries	1696	1359	1322	1101	978	853	820	733	640	650	587	514
12A/195Ah	230	195	165	230	195	165	230	195	165	230	195	165
2 batteries	149	132	115	119	108	92	101	89	77	87	78	69
4 batteries	210	187	165	169	151	132	144	128	112	121	111	99
6 batteries	339	301	264	275	245	214	236	209	188	204	182	169
8 batteries	478	419	367	385	341	299	329	293	256	288	255	223
9 batteries	533	479	419	440	391	342	377	335	294	329	293	268
16A/165Ah	230	195	165	230	195	165	230	195	165	230	195	165
2 batteries	149	132	115	119	108	92	101	89	77	87	78	69
4 batteries	210	187	165	169	151	132	144	128	112	121	111	99
6 batteries	339	301	264	275	245	214	236	209	188	204	182	169
8 batteries	478	419	367	385	341	299	329	293	256	288	255	223
9 batteries	533	479	419	440	391	342	377	335	294	329	293	268
19A/165Ah	230	195	165	230	195	165	230	195	165	230	195	165
2 batteries	149	132	115	119	108	92	101	89	77	87	78	69
4 batteries	210	187	165	169	151	132	144	128	112	121	111	99
6 batteries	339	301	264	275	245	214	236	209	188	204	182	169
8 batteries	478	419	367	385	341	299	329	293	256	288	255	223
9 batteries	533	479	419	440	391	342	377	335	294	329	293	268

*Above calculations based on an AC load with a 90 cycle plant power factor.
 For contact information visit www.alpha.com

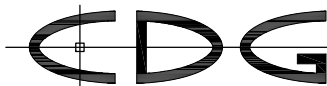
The Alpha Group >	North America	Europe, Middle East & Africa	Asia Pacific	Latin & South America
China	Tel: +1 604 403 1476 Fax: +1 604 403 8958 Tel Fax: +1 604 667 8043	Cyprus	Germany	Lithuania
USA	Tel: +1 360 647 2860 Fax: +1 360 671 4936	Russia	United Kingdom	P.R. China
				Contact USA office

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0	FXC 02/10/2013	ISSUED FOR REVIEW

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Civil Engineer

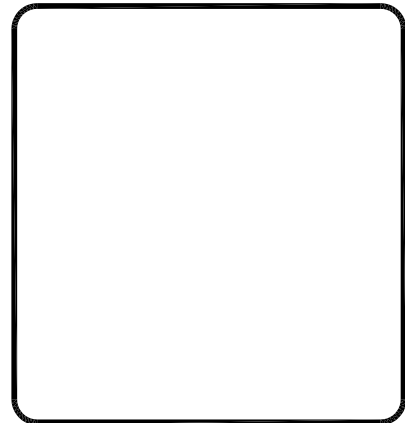


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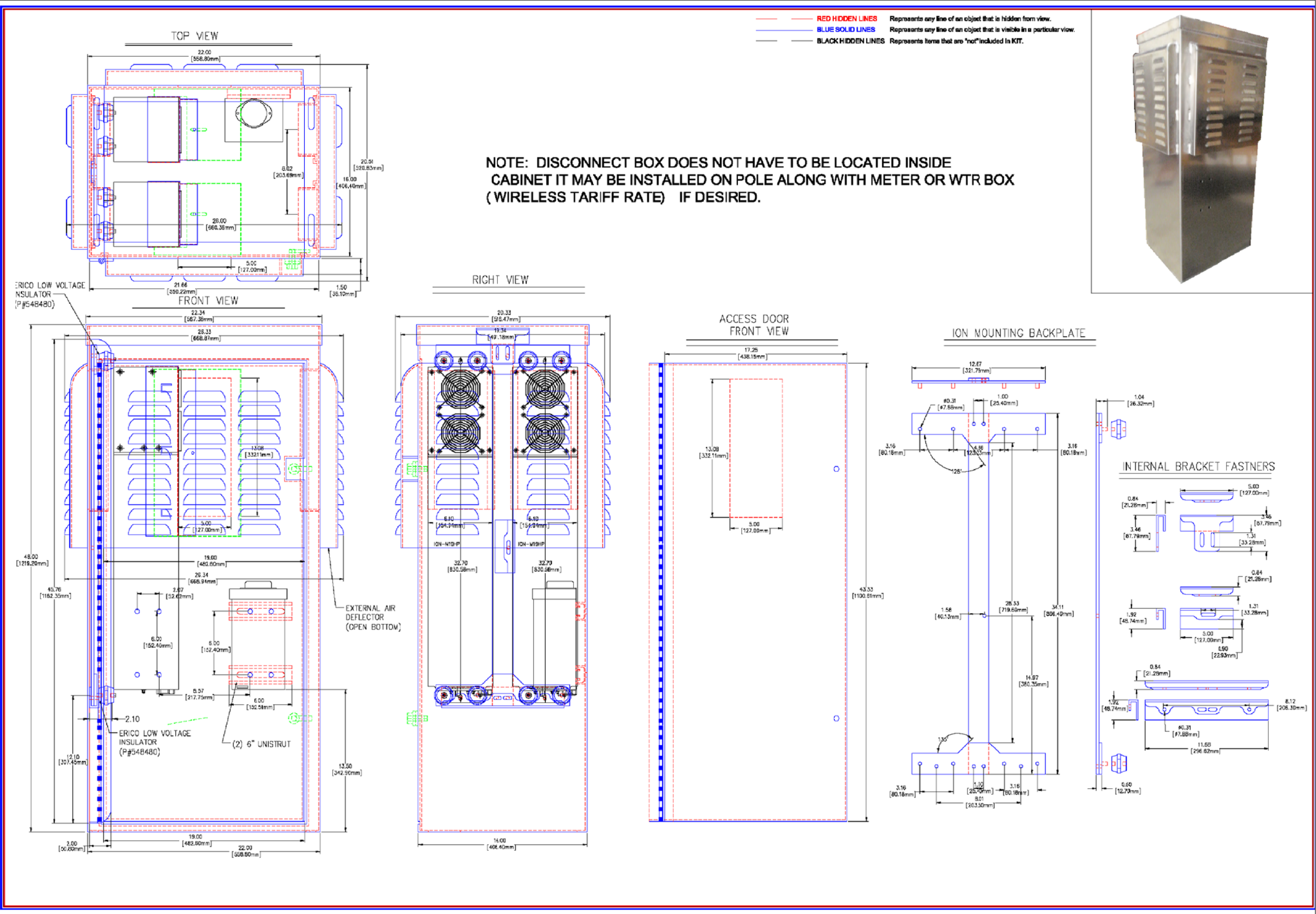
SHEET NUMBER:

D-4

— RED HIDDEN LINES Represents any line of an object that is hidden from view.
— BLUE SOLID LINES Represents any line of an object that is visible in a particular view.
— BLACK HIDDEN LINES Represents items that are 'not' included in KIT.

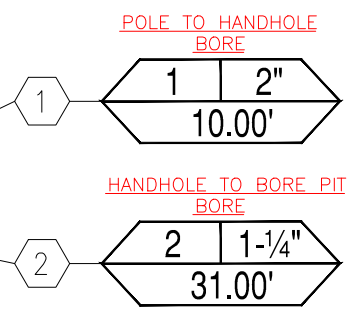
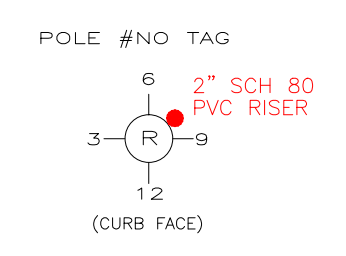
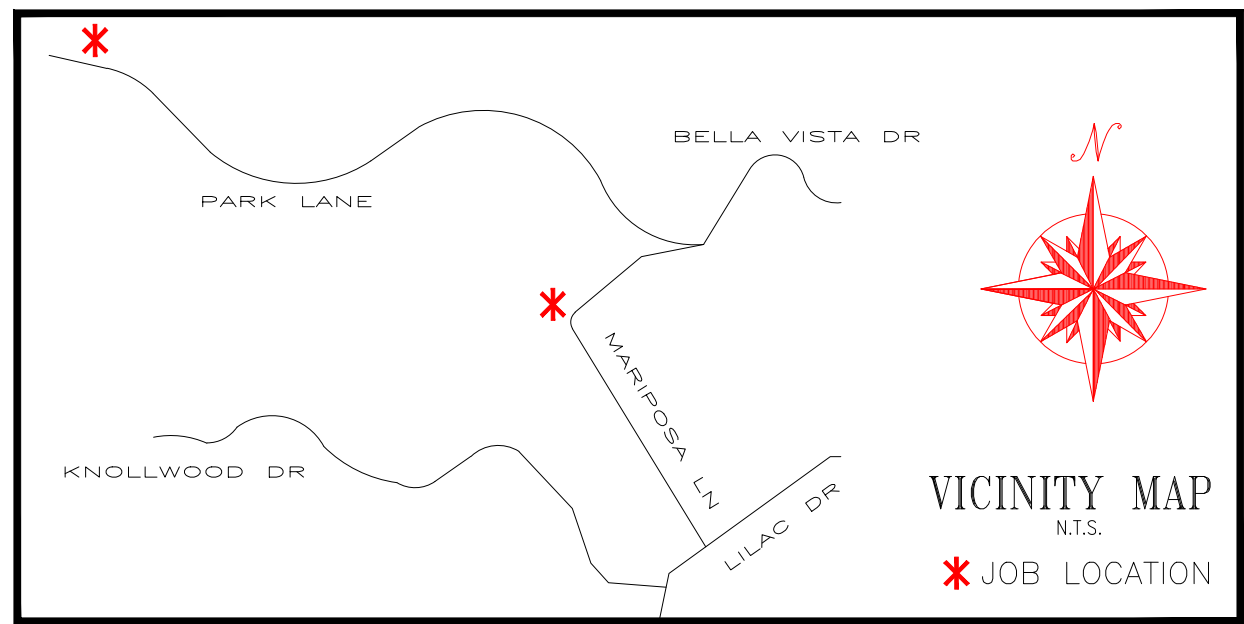


NOTE: DISCONNECT BOX DOES NOT HAVE TO BE LOCATED INSIDE CABINET IT MAY BE INSTALLED ON POLE ALONG WITH METER OR WTR BOX (WIRELESS TARIFF RATE) IF DESIRED.

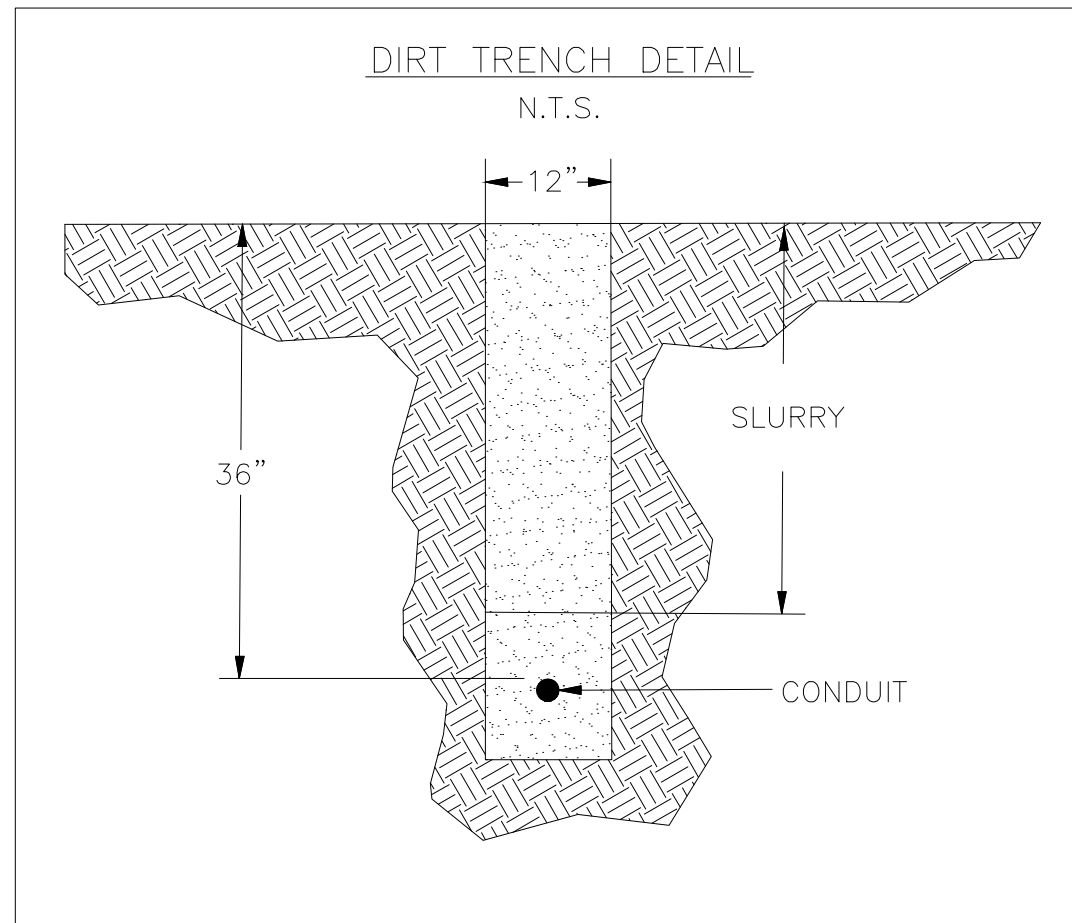
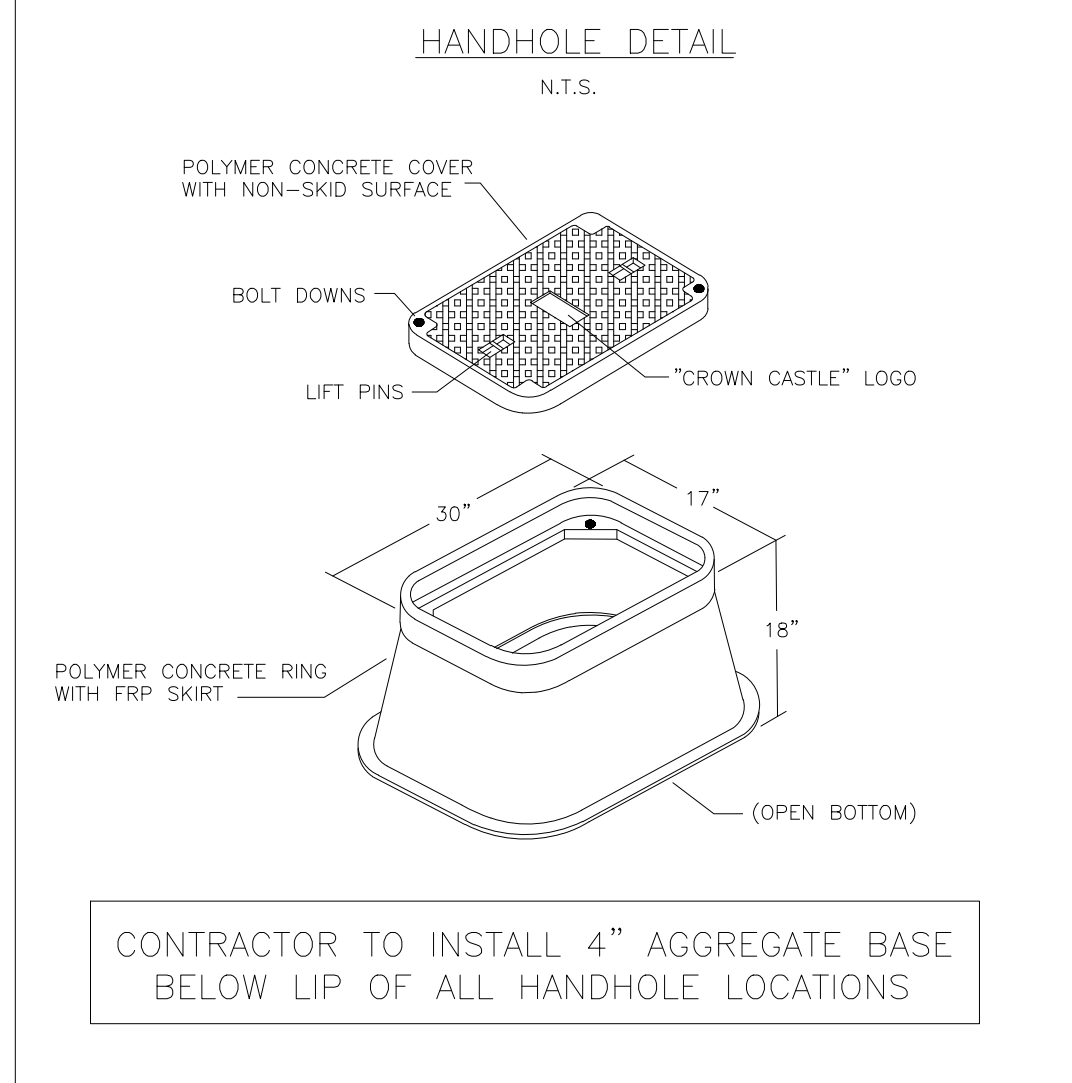
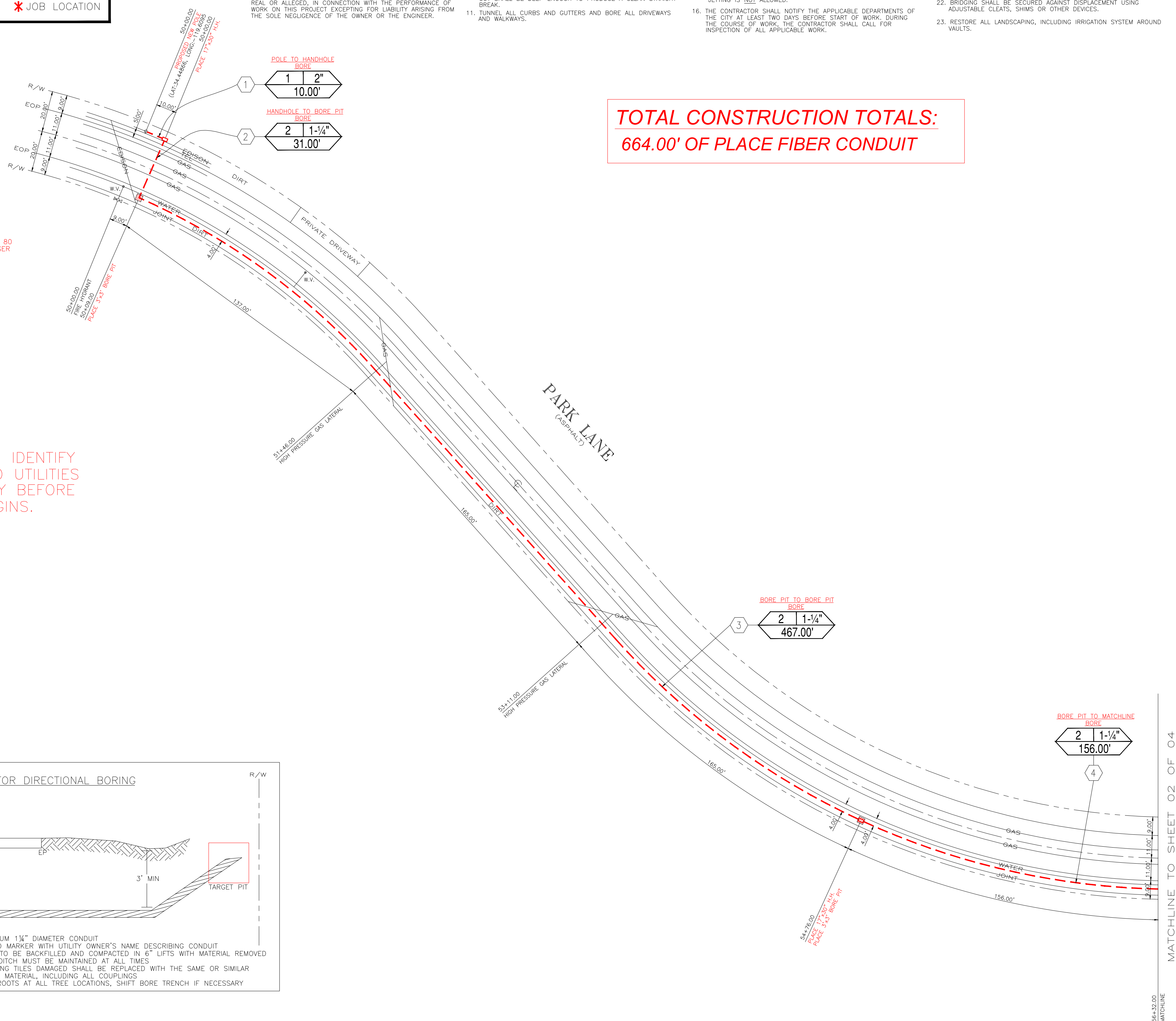


CONSTRUCTION NOTES

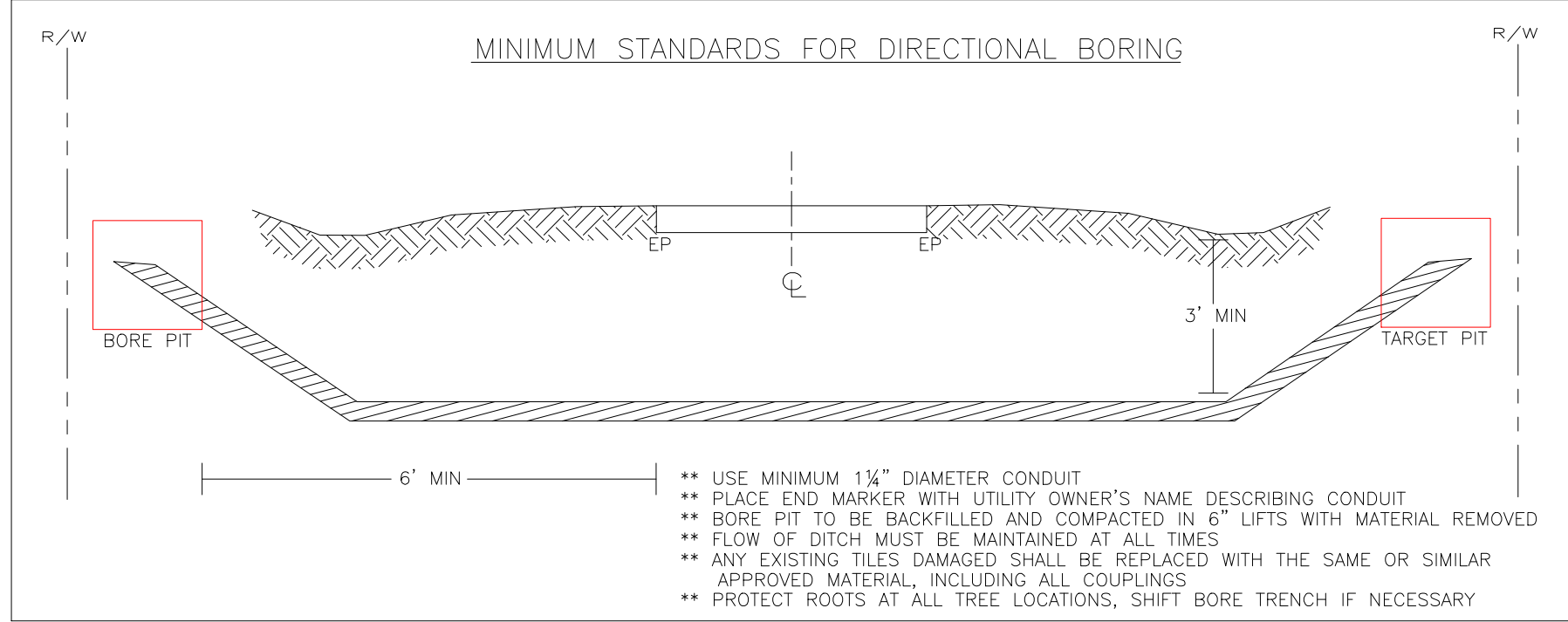
- ALL WORK SHALL CONFORM TO LATEST EDITION OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY AS MODIFIED BY STANDARD PLANS AND ADDENDUM.
- THE EXISTENCE AND LOCATION OF UTILITY LINES SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER UTILITY LINES MAY EXIST; CONTRACTOR SHALL VERIFY PRIOR TO START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE SAME. HE IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES, VALVES, METERS, TRAFFIC SIGNAL CONDUIT & DETECTOR LOOPS, ETC. WITHIN LIMITS OF WORK WHETHER THEY ARE SHOWN ON THESE PLANS OR NOT.
- AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK NOTIFY UNDERGROUND SERVICE ALERT (1-800-422-4133).
- INDEMNIFICATION CLAUSE— CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTIONS OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE PER "MACH" (WORK AREA TRAFFIC CONTROL HANDBOOK) UNLESS NOTED OTHERWISE.
- ALL PAVEMENTS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE RECONSTRUCTED PER THE COUNTY OF SANTA BARBARA IMPROVEMENTS STANDARD.
- PRIOR TO THE BEGINNING OF ANY EXCAVATION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK THE CONTRACTOR SHALL FULLY COMPLY WITH THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
- THE CONTRACTOR SHALL HAVE COPIES OF THE PLANS ON THE PROJECT SITE AND BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE OR BELOW GROUND IMPROVEMENTS, AS A RESULT OF HIS OPERATIONS, AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAME TO THE SATISFACTION OF THE CITY.
- ALL BACKHOE EXCAVATION SHALL BE SAW CUT TO FACILITATE REMOVAL BY THE USE OF A POWER DRIVEN SAW. THE DEPTH OF CUT SHALL BE DEEP ENOUGH TO PRODUCE A CLEAN, STRAIGHT BREAK WITHOUT CRACKING, CHIPPING OR LOOSENING ADJOINING PCC. THE EXISTING PCC SHALL BE CUT BEYOND THE CONFIGURATION OF THE TRENCH OR EXCAVATION AREA AS MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR TO ELIMINATE SMALL "FLOATING" PIECES OF CONCRETE, SUCH AS WHERE THE EXISTING PCC IS DAMAGED OR CRACKED. IN GENERAL, THE REPLACEMENT SHALL BE TO THE EXTENT THAT THERE ARE NO FLOATING PIECES OF PCC LEFT REMAINING WHICH ARE SMALLER THAN 9 SQUARE FEET IN AREA. IN ADDITION, THE SAW CUT LIMITS SHALL BE LOCATED NO CLOSER THAN 3 FEET FROM A SCORE LINE OR COLD JOINT. MIN. PCC REMOVAL IS 25 SQUARE FEET, SCORE LINE TO SCORE LINE.
- UNLESS OTHERWISE NOTED: 1" CONDUIT BENDS SHALL HAVE A RADIUS OF 3'; 2" CONDUIT BENDS SHALL HAVE A RADIUS OF 2'; PLACE 2" SACK SLURRY MIX AROUND ALL CONDUIT BENDS HAVING A RADIUS OF LESS THAN 50'.
- ALL CONDUIT SHALL BE DB 120, UNLESS OTHERWISE SPECIFIED. ALL SWEEPS TO POLES SHALL BE SCHEDULE 80.
- REMOVE AND REPLACE CURB AND GUTTER ABOVE SWEEPS TO VAULTS IN THE SIDEWALK, OR BORE UNDER CURB AND GUTTER. SETTING IS NOT ALLOWED.
- REMOVE AND REPLACE CURB AND GUTTER ABOVE SWEEPS TO VAULTS IN THE SIDEWALK, OR BORE UNDER CURB AND GUTTER. SETTING IS NOT ALLOWED.
- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE DEPARTMENTS OF THE CITY AT LEAST TWO DAYS BEFORE START OF WORK. DURING THE COURSE OF WORK, THE CONTRACTOR SHALL CALL FOR INSPECTION OF ALL APPLICABLE WORK.
- EXISTING PORTLAND CEMENT CONCRETE SHALL BE SAW CUT TO FACILITATE REMOVAL BY THE USE OF A POWER DRIVEN SAW. THE DEPTH OF CUT SHALL BE DEEP ENOUGH TO PRODUCE A CLEAN, STRAIGHT BREAK WITHOUT CRACKING, CHIPPING OR LOOSENING ADJOINING PCC. THE EXISTING PCC SHALL BE CUT BEYOND THE CONFIGURATION OF THE TRENCH OR EXCAVATION AREA AS MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR TO ELIMINATE SMALL "FLOATING" PIECES OF CONCRETE, SUCH AS WHERE THE EXISTING PCC IS DAMAGED OR CRACKED. IN GENERAL, THE REPLACEMENT SHALL BE TO THE EXTENT THAT THERE ARE NO FLOATING PIECES OF PCC LEFT REMAINING WHICH ARE SMALLER THAN 9 SQUARE FEET IN AREA. IN ADDITION, THE SAW CUT LIMITS SHALL BE LOCATED NO CLOSER THAN 3 FEET FROM A SCORE LINE OR COLD JOINT. MIN. PCC REMOVAL IS 25 SQUARE FEET, SCORE LINE TO SCORE LINE.
- ALL SHRUBS, PLANTS, OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK SHALL BE REPLANTED OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- DURING THE COURSE OF THE WORK, PEDESTRIAN AND VEHICULAR ACCESS MUST BE MAINTAINED AT ALL TIMES.
- NON-SKID CALTRANS APPROVED STEEL PLATES SHALL BE CEDED IN TRENCH CROSSING MAJOR STREETS (AREA DESIGNATED BY CITY ENGINEER) AND INSTALLED PER CALTRANS SPEC. PAVEMENT SHALL BE COLD PLACED TO A DEPTH EQUAL TO THE THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSIONS OF THE PLATES.
- STEEL PLATES USED FOR BRIDGING MUST EXTEND A MINIMUM OF 12" BEYOND EDGES OF TRENCH.
- TEMPORARY PAVING WITH COLD MIX SHALL BE USED TO FEATHER THE EDGES OF THE PLATES TO MINIMIZE WHEEL IMPACT. CONTRACTOR MAY BE REQUIRED TO WELD PLATES TOGETHER TO MINIMIZE RATTLING. CONTRACTOR MAY BE REQUIRED TO SWEEP UP LOOSE GRAVEL SEVERAL TIMES PER DAY AS DEEMED NECESSARY BY CITY ENGINEER.
- BRIDGING SHALL BE SECURED AGAINST DISPLACEMENT USING ADJUSTABLE CLEATS, SHIMS OR OTHER DEVICES.
- RESTORE ALL LANDSCAPING, INCLUDING IRRIGATION SYSTEM AROUND VAULTS.
- VAULT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
- NEW PAVEMENT THICKNESS SHALL BE EXISTING PLUS ONE INCH. USE T-SECTION CUT (ADD 6 INCH CUT ON EACH SIDE OF TRENCH WIDTH). TOP 2" WEARING SURFACE SHALL BE A.C. C2-AR-4000, AND BASE PAVEMENT SHALL BE A.C. B-AR-4000.
- TACK COAT SHALL BE APPLIED OVER ROADWAY SURFACE PRIOR TO PAVEMENT INSTALLATION. TACK COAT SHALL BE AR-4000 HOT TACK EMULSION ASPHALT PER "GREEN BOOK" REQUIREMENTS.
- 3/4 SACK CEMENT/SAND SLURRY BACKFILL. ALL SLURRY BACKFILL WILL REQUIRE 72 HOURS OF CURE TIME. ALL EXCAVATION AND TRENCHES WILL BE SECURED WITH STEEL PLATES.
- PERMANENT PAVING SHALL BE COMPLETED WITHIN TWO WEEKS AFTER EXCAVATION. TEMPORARY PAVING USING COLD MIX A.C. IS ACCEPTABLE AFTER ALLOWING 72 HOURS OF CURE TIME ON SLURRY MIX BACKFILL.
- REPLACE ANY EXISTING STRIPING, MARKINGS AND SURVEY MONUMENTS THAT MAY HAVE BEEN REMOVED OR DAMAGED.
- ACCESS SHALL BE PROVIDED TO ALL FIRE HYDRANTS, VALVES, VAULTS, METERS, AND PULL BOXES AT ALL TIMES. TRAFFIC SIGNALS, PEDESTRIAN SIGNALS AND STOP SIGNS SHALL REMAIN UNOBSTRUCTED AT ALL TIMES.
- SEE ADDITIONAL NOTES ON THE EXCAVATION PERMIT.
- HANDHOLES, VAULT OR SUBSURFACE EQUIPMENT ENCLOSURES SHALL BE MARKED AS TO OWNERSHIP TO FACILITATE IDENTIFICATION BY PERSONS PERFORMING WORK IN THEIR VICINITY.
- MANHOLES AND HANDHOLES, WHILE NOT BEING WORKED IN SHALL BE SECURELY CLOSED BY COVERS OF SUFFICIENT STRENGTH TO SUSTAIN SUCH LOADS AS MAY REASONABLY BE IMPOSED UPON THEM, AND ARRANGEMENT SHALL BE SUCH THAT A TOOL OR APPLIANCE SHALL BE REQUIRED FOR THEIR OPENING AND COVER REMOVAL.
- ALL VAULT AND MANHOLES SHALL CONFORM TO APPLICABLE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS (A.A.S.H.O.) STANDARD SPECIFICATIONS H20-516-44 FOR HIGHWAY BRIDGES, LATEST REVISION, RELATING TO DEAD LOADS LIVE LOADS, AND IMPACT LOADS. ADDITIONALLY, LOADS DUE TO A GROUND WATER TABLE OF THREE (3) FEET FROM FINISHED GRADE AND A SURCHARGE OF (2) FEET SHALL BE APPLIED IN CALCULATING DESIGN LOADS.
- MAINTAIN 12" CLEARANCE BETWEEN NEW CONDUIT AND ALL OTHER UTILITIES.



**TOTAL CONSTRUCTION TOTALS:
664.00' OF PLACE FIBER CONDUIT**



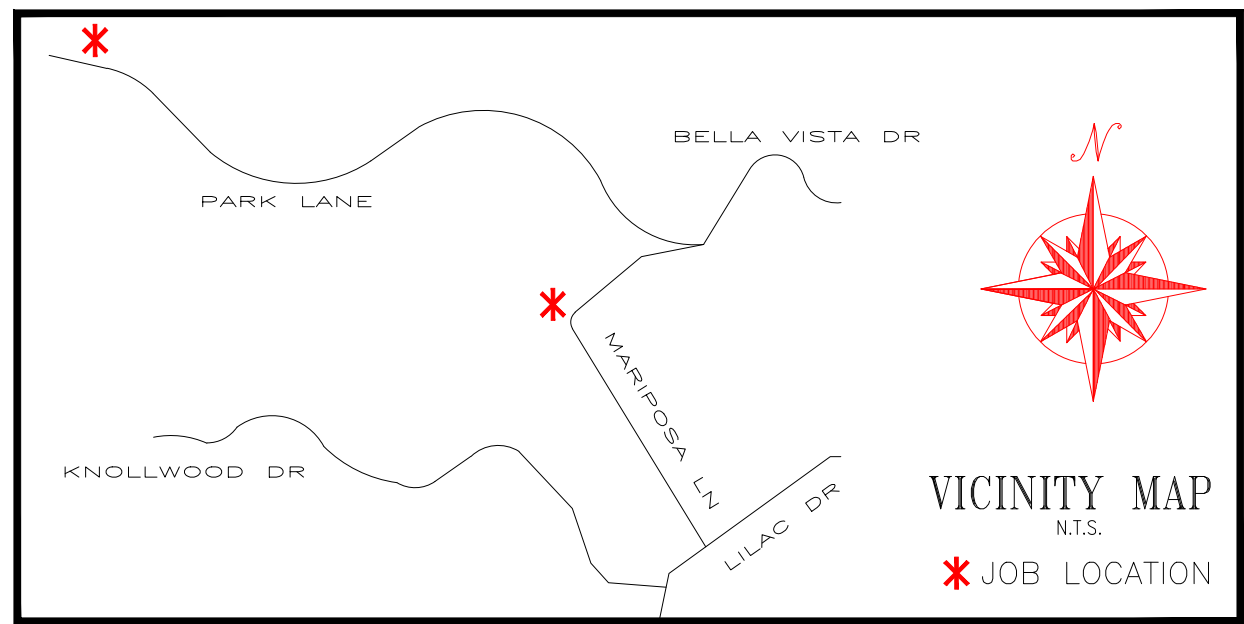
*****NOTE***
CONTRACTOR IS TO IDENTIFY ANY UNDERGROUND UTILITIES WITHIN THE VICINITY BEFORE CONSTRUCTION BEGINS.**



TOTAL TRENCH FOOTAGE CROWN CASTLE NG ONLY = 664.00'		TRENCH DATA		LEGEND				SCALE: 1" = 30' 	IMPORTANT NOTICE Section 4216/4217 of the Government Code requires a Dig Alert notification. Number to be issued before a "Permit to Excavate" will be void. For your Dig Alert I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600	PROJECT NUMBER: VR2210441CAMONUFL04 COUNTY OF SANTA BARBARA SUB MAP NO. : THOMAS GUIDE : 987, C-7 CITY W.O. : PERMIT NO. : DATE :	REVISED	 Crown Castle NG West, Inc. CITY OF MONTECITO SCALE: 1" = 30' DATE: 06/06/2013 LOCATION: PARK LANE & MARIPOSA LANE LOG # : - SYSTEM # : 13301-1 VERSION - MONTECITO GRID # : 6075-1988 T.G.M. # : 987, C-7 PROJECT # : VR2210441CAMONUFL04 ADDRESS # : 985 MARIPOSA LANE MONTECITO, CA 93108 TYPE OF DRAWING: SUBSTRUCTURES CROWN CASTLE NG FACILITY
BILL OF MATERIALS		① PL. 10.00' (1)-2" DUCT. BORE ② PL. 31.00' (2)-1 1/4" DUCT. BORE ③ PL. 467.00' (2)-1 1/4" DUCT. BORE ④ PL. 156.00' (2)-1 1/4" DUCT. BORE		[Symbol] PROPOSED VAULT [Symbol] BORE PIT [Symbol] UTILITY POLE [Symbol] TREE/BUSH [Symbol] WATER VALVE [Symbol] FIRE HYDRANT [Symbol] STREET LIGHT	[Symbol] CENTER LINE [Symbol] PROPERTY LINE [Symbol] RIGHT OF WAY [Symbol] CONCRETE SIDEWALK [Symbol] PARKWAY [Symbol] CONDUIT DATA BLOCK [Symbol] CONDUIT CT. DISTANCE [Symbol] CONDUIT SIZE	[Symbol] PROPOSED CC/NG DUCT [Symbol] PROPOSED CC/NG BORE [Symbol] CENTER LINE [Symbol] RIGHT OF WAY [Symbol] PROPERTY LINE [Symbol] EDGE OF PAVEMENT (EOP) [Symbol] CABLE TV	[Symbol] STREET LIGHT CONDUIT [Symbol] ELECTRIC [Symbol] TELEPHONE [Symbol] GAS [Symbol] STORM DRAIN [Symbol] SANITARY SEWER [Symbol] WATER					

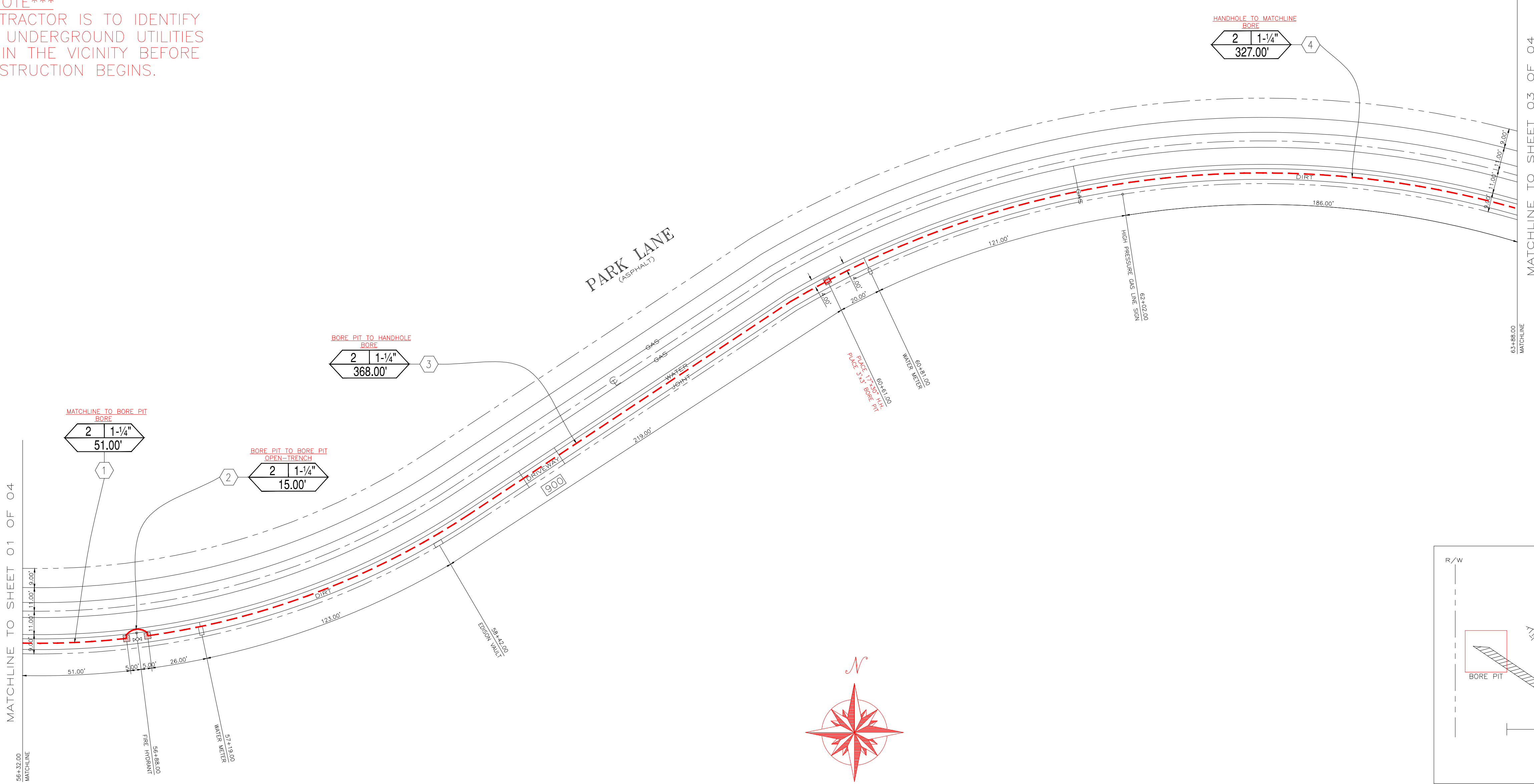
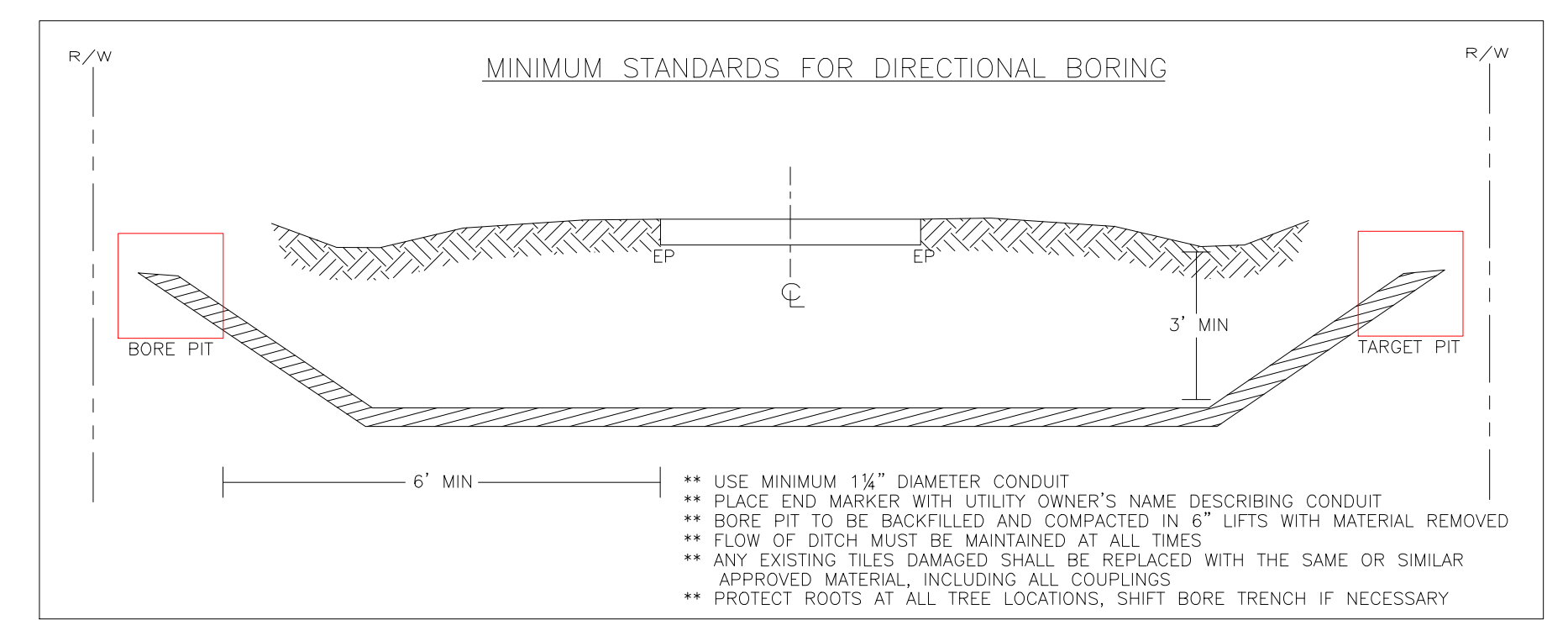
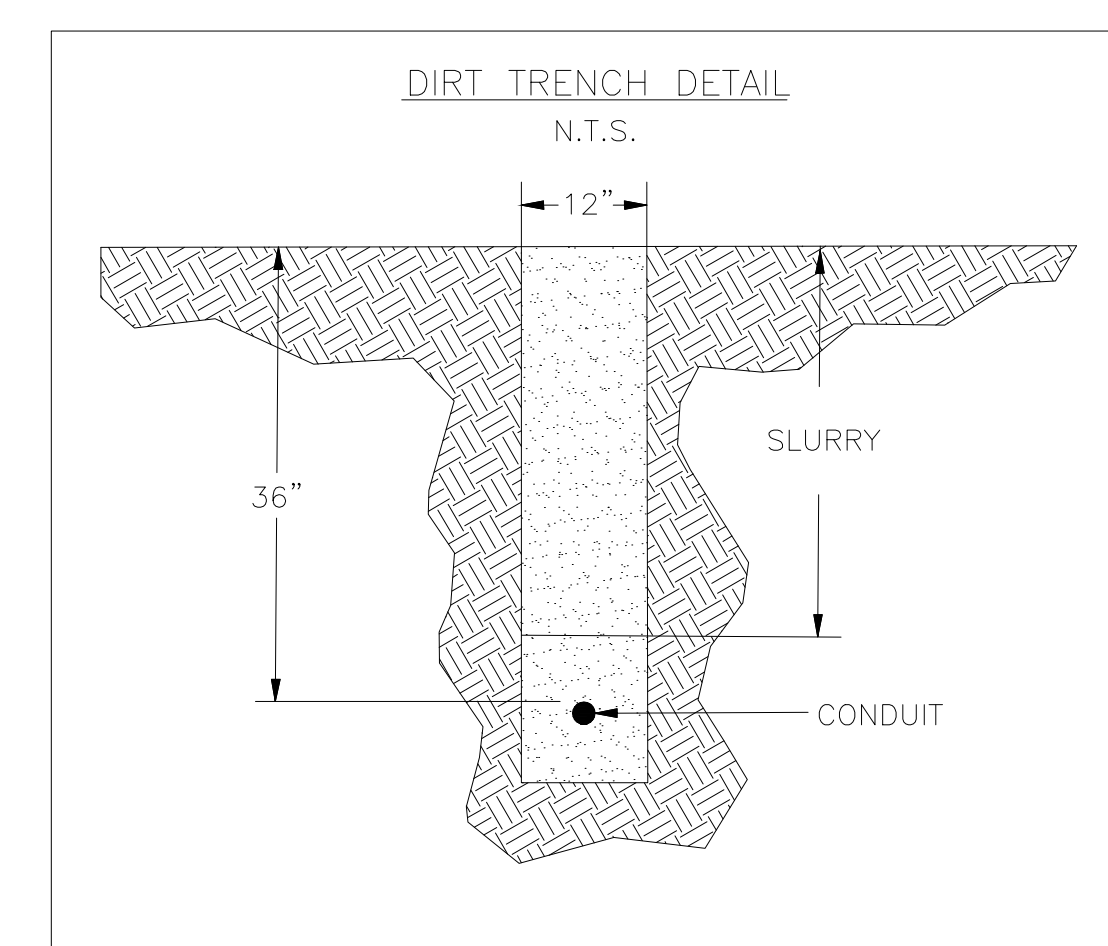
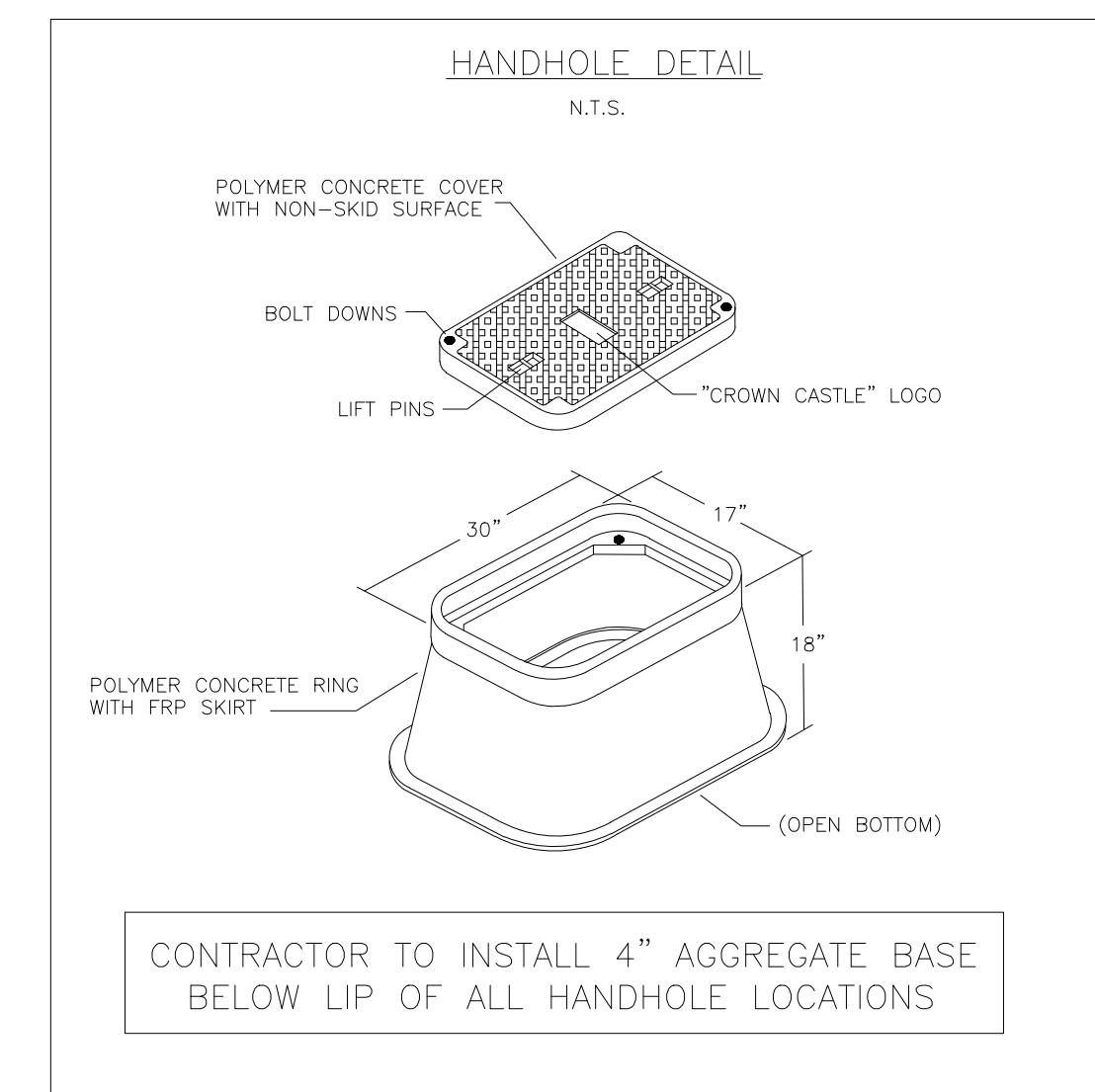
CONSTRUCTION NOTES

- ALL WORK SHALL CONFORM TO LATEST EDITION OF THE "STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION," ADOPTED BY THE CITY AS MODIFIED BY STANDARD PLANS AND ADDENDUM.
- THE EXISTENCE AND LOCATION OF UTILITY LINES SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER UTILITY LINES MAY EXIST; CONTRACTOR SHALL VERIFY PRIOR TO START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE SAME. HE IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES, VALVES, METERS, TRAFFIC SIGNAL CONDUIT & DETECTOR LOOPS, ETC. WITHIN LIMITS OF WORK WHETHER THEY ARE SHOWN ON THESE PLANS OR NOT.
- AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK NOTIFY UNDERGROUND SERVICE ALERT (1-800-422-4133).
- INDEMNIFICATION CLAUSE - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTIONS OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE PER "WATCH" (WORK AREA TRAFFIC CONTROL HANDBOOK) UNLESS NOTED OTHERWISE.
- ALL PAVEMENTS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE RECONSTRUCTED PER THE COUNTY OF SANTA BARBARA IMPROVEMENTS STANDARD.
- PRIOR TO THE BEGINNING OF ANY EXCAVATION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK THE CONTRACTOR SHALL FULLY COMPLY WITH THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
- THE CONTRACTOR SHALL HAVE COPIES OF THE PLANS ON THE PROJECT SITE AND BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE OR BELOW GROUND IMPROVEMENTS, AS A RESULT OF HIS OPERATIONS, AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAME TO THE SATISFACTION OF THE CITY.
- ALL BACKHOE EXCAVATION SHALL BE SAW CUT TO FACILITATE REMOVAL BY THE USE OF A POWER DRIVEN SAW. THE DEPTH OF CUT SHALL BE DEEP ENOUGH TO PRODUCE A CLEAN, STRAIGHT BREAK.
- TUNNEL ALL CURBS AND GUTTERS AND BORE ALL DRIVEWAYS AND WALKWAYS.
- EXISTING PORTLAND CEMENT CONCRETE SHALL BE SAW CUT TO FACILITATE REMOVAL BY THE USE OF A POWER DRIVEN SAW. THE DEPTH OF CUT SHALL BE DEEP ENOUGH TO PRODUCE A CLEAN, STRAIGHT BREAK WITHOUT CRACKING, CHIPPING OR LOOSENING ADJOINING PCC. THE EXISTING PCC SHALL BE CUT BEYOND THE CONFIGURATION OF THE TRENCH OR EXCAVATION AREA AS MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR TO ELIMINATE SMALL "FLOATING" PIECES OF CONCRETE, SUCH AS WHERE THE EXISTING PCC IS DAMAGED OR CRACKED. IN GENERAL, THE REPLACEMENT SHALL BE TO THE EXTENT THAT THERE ARE NO FLOATING PIECES OF PCC LEFT REMAINING WHICH ARE SMALLER THAN 9 SQUARE FEET IN AREA. IN ADDITION, THE SAW CUT LIMITS SHALL BE LOCATED NO CLOSER THAN 3 FEET FROM A SCORE LINE OR COLD JOINT. MIN. PCC REMOVAL IS 25 SQUARE FEET. SCORE LINE TO SCORE LINE.
- UNLESS OTHERWISE NOTED: 1" CONDUIT BENDS SHALL HAVE A RADIUS OF 3'; 2" CONDUIT BENDS SHALL HAVE A RADIUS OF 2'; PLACE 2" SACK SLURRY MIX AROUND ALL CONDUIT BENDS HAVING A RADIUS OF LESS THAN 50'.
- ALL CONDUIT SHALL BE DB 120, UNLESS OTHERWISE SPECIFIED. ALL SWEEPS TO POLES SHALL BE SCHEDULE 80.
- REMOVE AND REPLACE CURB AND GUTTER ABOVE SWEEPS TO VAULTS IN THE SIDEWALK, OR BORE UNDER CURB AND GUTTER. SETTING IS NOT ALLOWED.
- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE DEPARTMENTS OF THE CITY AT LEAST TWO DAYS BEFORE START OF WORK. DURING THE COURSE OF WORK, THE CONTRACTOR SHALL CALL FOR INSPECTION OF ALL APPLICABLE WORK.
- ALL SHRUBS, PLANTS, OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK SHALL BE REPLANTED OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- DURING THE COURSE OF THE WORK, PEDESTRIAN AND VEHICULAR ACCESS MUST BE MAINTAINED AT ALL TIMES.
- NON-SKID CALTRANS APPROVED STEEL PLATES SHALL BE RECESSED IN TRENCH CROSSING MAJOR STREETS (AREA DESIGNATED BY CITY ENGINEER) AND INSTALLED PER CALTRANS SPEC. PAVEMENT SHALL BE COLD PLACED TO A DEPTH EQUAL TO THE THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSIONS OF THE PLATES.
- STEEL PLATES USED FOR BRIDGING MUST EXTEND A MINIMUM OF 12" BEYOND EDGES OF TRENCH.
- TEMPORARY PAVING WITH COLD MIX SHALL BE USED TO FEATHER THE EDGES OF THE PLATES TO MINIMIZE WHEEL IMPACT. CONTRACTOR MAY BE REQUIRED TO WELD PLATES TOGETHER TO MINIMIZE RATTLING. CONTRACTOR MAY BE REQUIRED TO SWEEP UP LOOSE GRAVEL SEVERAL TIMES PER DAY AS DEEMED NECESSARY BY CITY ENGINEER.
- BRIDGING SHALL BE SECURED AGAINST DISPLACEMENT USING ADJUSTABLE CLEATS, SHIMS OR OTHER DEVICES.
- RESTORE ALL LANDSCAPING, INCLUDING IRRIGATION SYSTEM AROUND VAULTS.
- VAULT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
- NEW PAVEMENT THICKNESS SHALL BE EXISTING PLUS ONE INCH. USE T-SECTION CUT (ADD 6 INCH CUT ON EACH SIDE OF TRENCH WIDTH). TOP 2" WEARING SURFACE SHALL BE A.C. C2-AR-4000, AND BASE PAVEMENT SHALL BE A.C. B-AR-4000.
- TACK COAT SHALL BE APPLIED OVER ROADWAY SURFACE PRIOR TO PAVEMENT INSTALLATION. TACK COAT SHALL BE AR-4000 HOT TACK EMULSIFIED ASPHALT PER "GREEN BOOK" REQUIREMENTS.
- 3/4" SACK CEMENT/SAND SLURRY BACKFILL. ALL SLURRY BACKFILL WILL REQUIRE 72 HOURS OF CURE TIME. ALL EXCAVATION AND TRENCHES WILL BE SECURED WITH STEEL PLATES.
- PERMANENT PAVING SHALL BE COMPLETED WITHIN TWO WEEKS AFTER EXCAVATION. TEMPORARY PAVING USING COLD MIX A.C. IS ACCEPTABLE AFTER ALLOWING 72 HOURS OF CURE TIME ON SLURRY MIX BACKFILL.
- REPLACE ANY EXISTING STRIPING, MARKINGS AND SURVEY MONUMENTS THAT MAY HAVE BEEN REMOVED OR DAMAGED.
- ACCESS SHALL BE PROVIDED TO ALL FIRE HYDRANTS, VALVES, VAULTS, METERS, AND PULL BOXES AT ALL TIMES. TRAFFIC SIGNALS, PEDESTRIAN SIGNALS AND STOP SIGNS SHALL REMAIN UNOBSTRUCTED AT ALL TIMES.
- SEE ADDITIONAL NOTES ON THE EXCAVATION PERMIT.
- HANDHOLES, VAULT OR SUBSURFACE EQUIPMENT ENCLOSURES SHALL BE MARKED AS TO OWNERSHIP TO FACILITATE IDENTIFICATION BY PERSONS AUTHORIZED BY TO WORK THEREIN AND BY OTHER PERSONS PERFORMING WORK IN THEIR VICINITY.
- MANHOLES AND HANDHOLES, WHILE NOT BEING WORKED IN SHALL BE SECURELY CLOSED BY COVERS OF SUFFICIENT STRENGTH TO SUSTAIN SUCH LOADS AS MAY REASONABLY BE IMPOSED UPON THEM, AND ARRANGEMENT SHALL BE SUCH THAT A TOOL OR APPLIANCE SHALL BE REQUIRED FOR THEIR OPENING AND COVER REMOVAL.
- ALL VAULT AND MANHOLES SHALL CONFORM TO APPLICABLE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS (A.A.S.H.O.) STANDARD SPECIFICATIONS H20-516-44 FOR HIGHWAY BRIDGES, LATEST REVISION, RELATING TO DEAD LOADS, LIVE LOADS, AND IMPACT LOADS. ADDITIONALLY, LOADS DUE TO A GROUND WATER TABLE OF THREE (3) FEET SHALL BE APPLIED IN CALCULATING DESIGN LOADS.
- MAINTAIN 12" CLEARANCE BETWEEN NEW CONDUIT AND ALL OTHER UTILITIES.



**TOTAL CONSTRUCTION TOTALS:
761.00' OF PLACE FIBER CONDUIT**

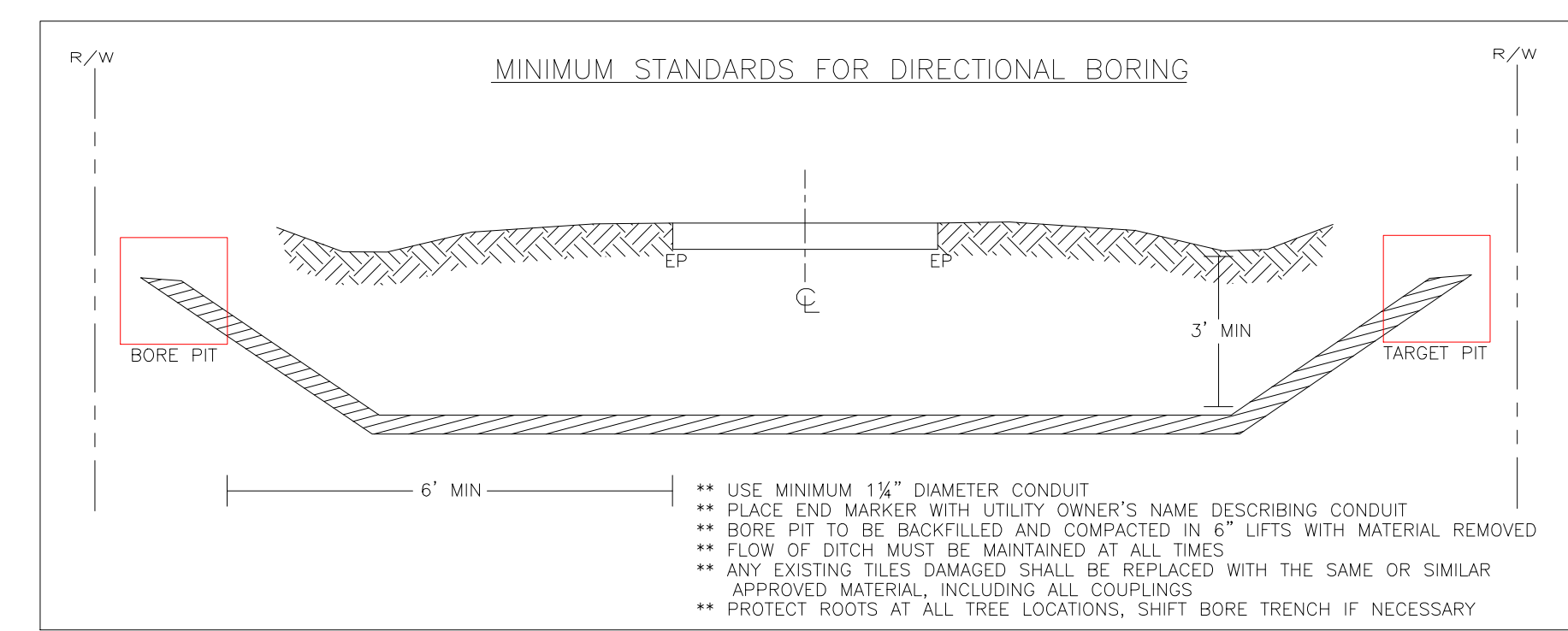
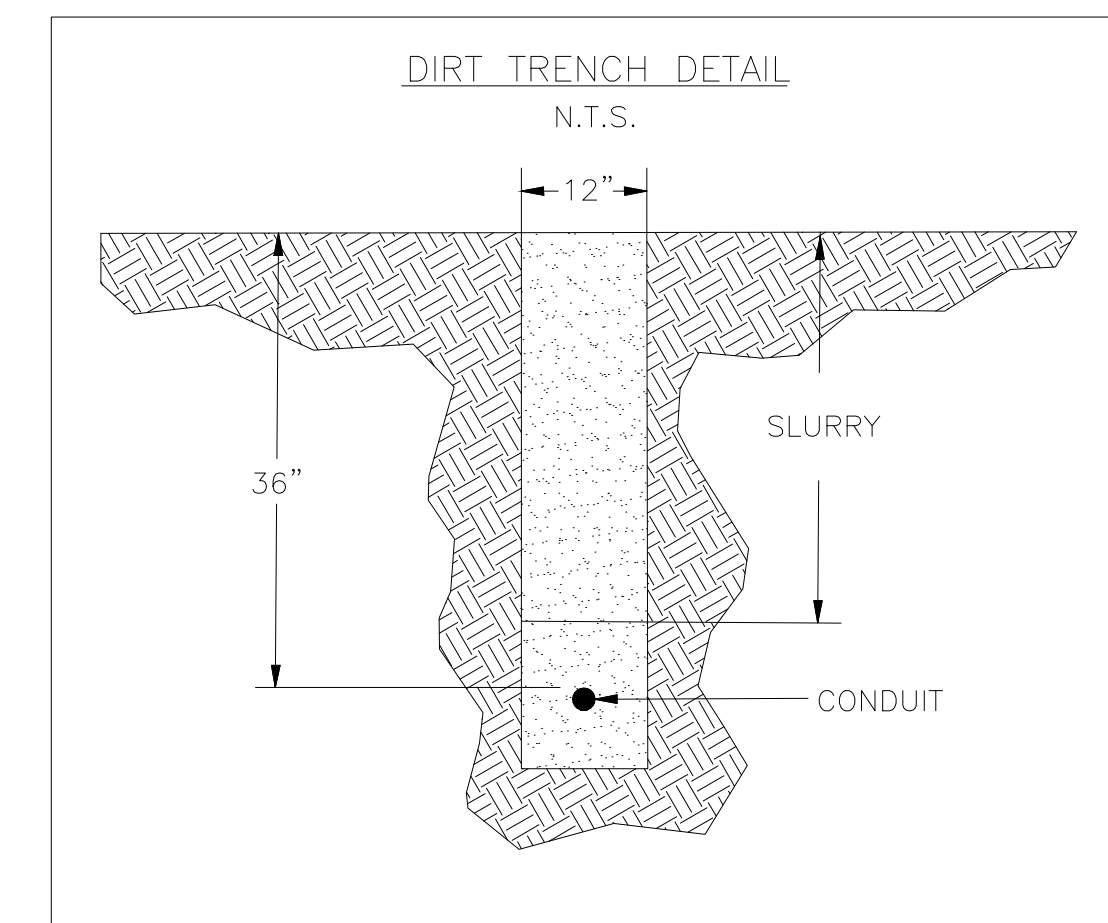
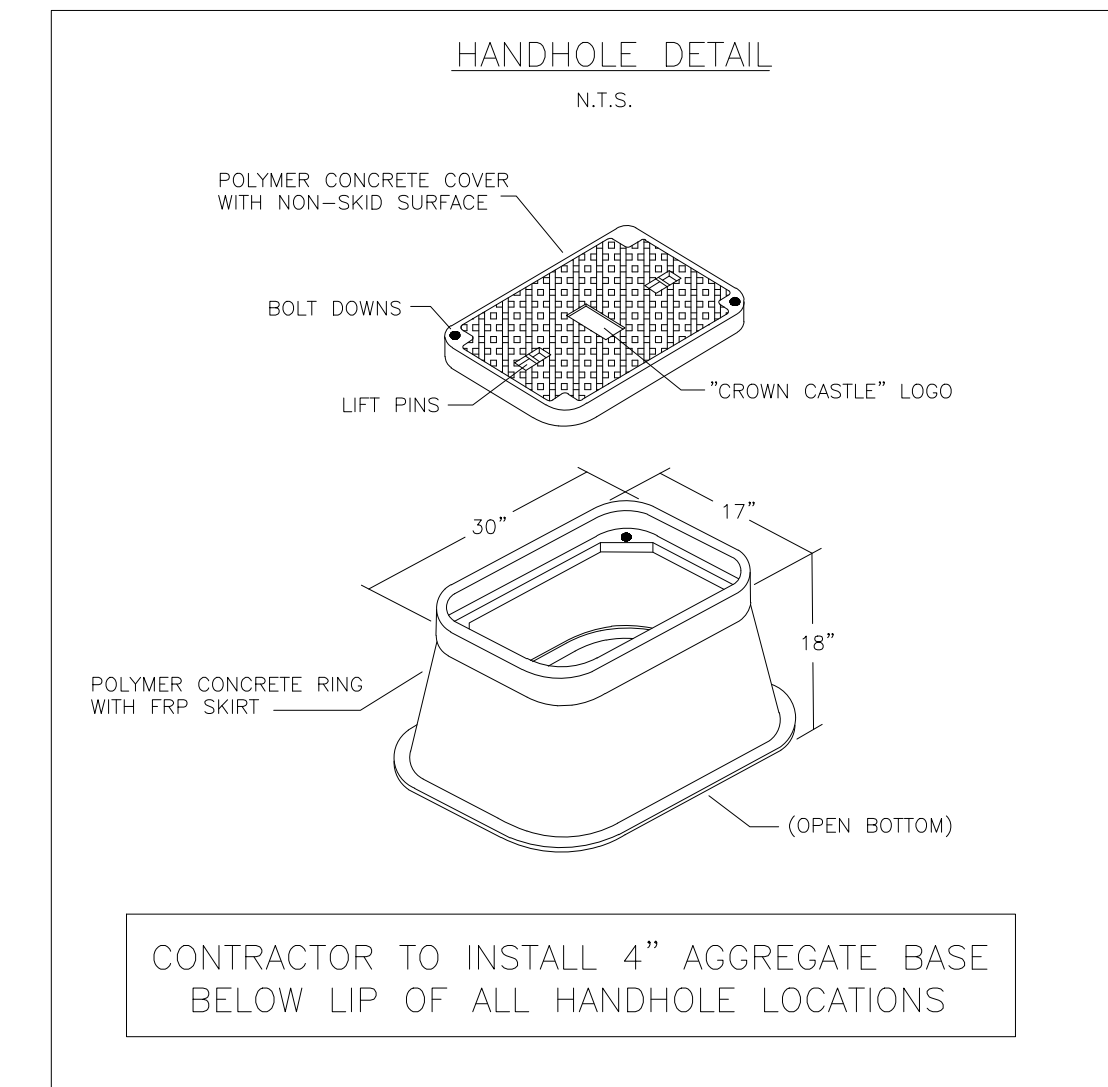
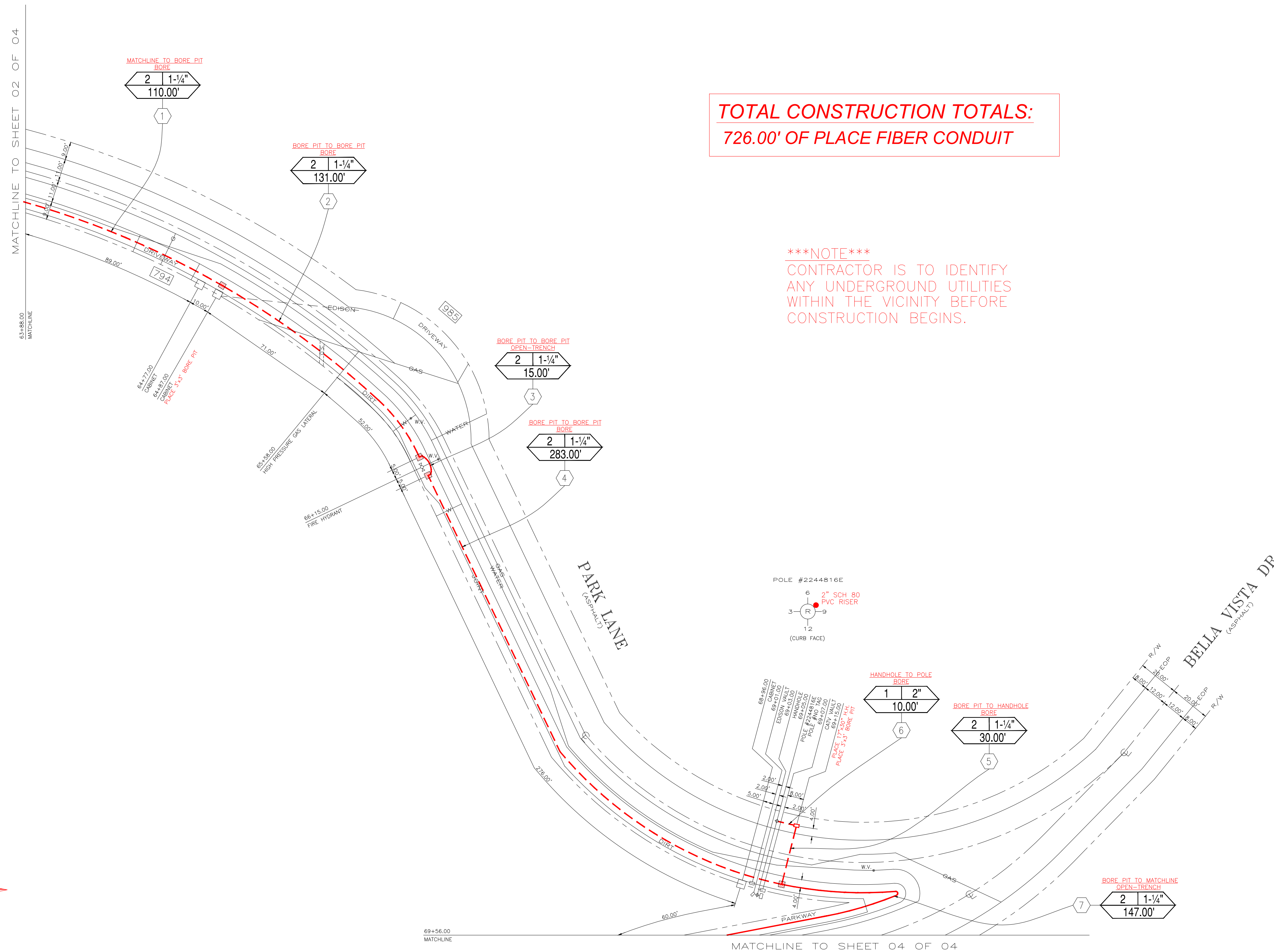
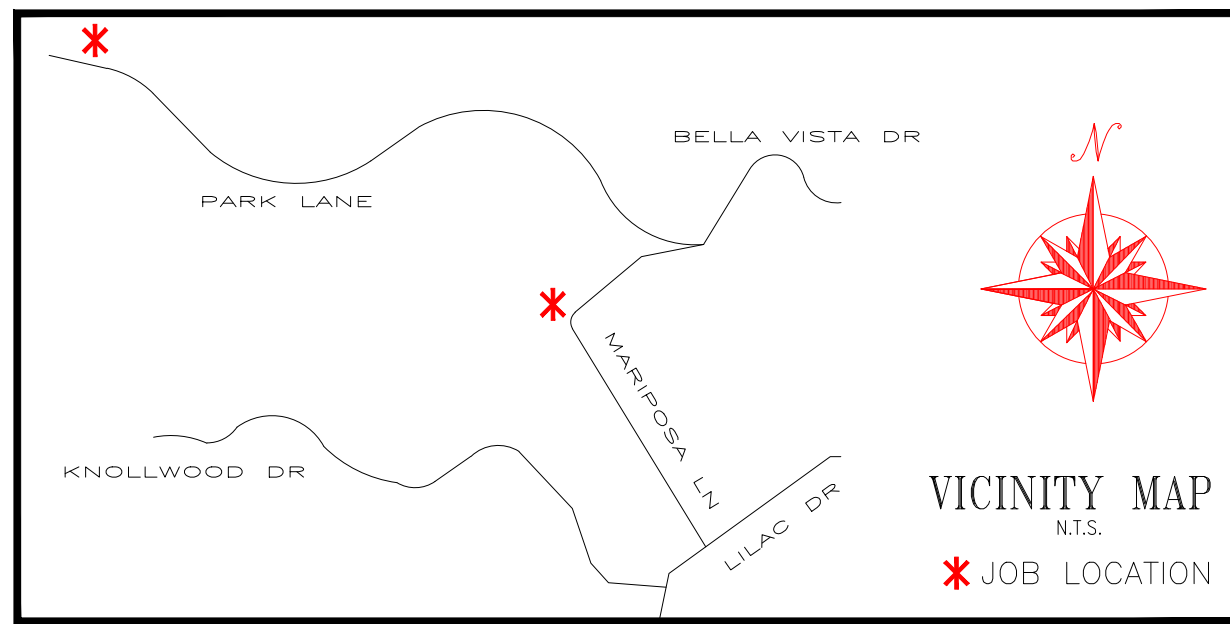
NOTE
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TOTAL TRENCH FOOTAGE CROWN CASTLE NG ONLY = 761.00'		TRENCH DATA		LEGEND				SCALE: 1" = 30' 30' 40' 60'		IMPORTANT NOTICE DIGAlert Section 4216/4217 of the Government Code requires a Dig Alert identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600		PROJECT NUMBER: VR2210441CAMONUFL04 COUNTY OF SANTA BARBARA SUB MAP NO. : THOMAS NO. : 987, C-7 CITY W.O. : PERMIT NO. : DATE :		REVISED		 Crown Castle NG West, Inc. BY : CE CITY OF MONTECITO SHEET 02 OF 04 SCALE: 1" = 30' DATE: 06/06/2013 LOCATION: PARK LANE & MARIPOSA LANE LOG # : - SYSTEM # : 13301-1 VERSION - MONTECITO GRID # : 6075-1988 PROJECT # : VR2210441CAMONUFL04 T.G.M. # : 987, C-7 ADDRESS # : 985 MARIPOSA LANE MONTECITO, CA 93108 TYPE OF DRAWING: SUBSTRUCTURES CROWN CASTLE NG FACILITY									
BILL OF MATERIALS		① PL. 51.00' (2)-1 1/4" DUCT. BORE ② PL. 15.00' (2)-1 1/4" DUCT. OPEN-TRENCH		③ PL. 368.00' (2)-1 1/4" DUCT. BORE ④ PL. 327.00' (2)-1 1/4" DUCT. BORE		[Symbol] PROPOSED VAULT [Symbol] BORE PIT [Symbol] UTILITY POLE [Symbol] TREE/BUSH [Symbol] WATER VALVE [Symbol] FIRE HYDRANT [Symbol] STREET LIGHT		[Symbol] CENTER LINE [Symbol] PROPERTY LINE [Symbol] RIGHT OF WAY [Symbol] CONCRETE SIDEWALK [Symbol] PARKWAY [Symbol] CONDUIT DATA BLOCK [Symbol] CONDUIT CT. DISTANCE [Symbol] CONDUIT SIZE		[Symbol] PROPOSED CC/NG DUCT [Symbol] PROPOSED CC/NG BORE [Symbol] CENTER LINE [Symbol] RIGHT OF WAY [Symbol] PROPERTY LINE [Symbol] EDGE OF PAVEMENT (EOP) [Symbol] CABLE TV		[Symbol] S.L.C. STREET LIGHT CONDUIT [Symbol] E. ELECTRIC [Symbol] T. TELEPHONE [Symbol] G. GAS [Symbol] S.D. STORM DRAIN [Symbol] S.S. SANITARY SEWER [Symbol] W. WATER		[Symbol] 17" x 30" (ASPH) [Symbol] 17" x 30" (CONC) [Symbol] 17" x 30" (DIRT)		[Symbol] 13" PVC [Symbol] 2" PVC [Symbol] 4" PVC		[Symbol] 0 [Symbol] 0 [Symbol] 1		[Symbol] 761' [Symbol] 0' [Symbol] 0'		[Symbol] 15.00' [Symbol] 746.00'		[Symbol] 0' [Symbol] 0'	

CONSTRUCTION NOTES

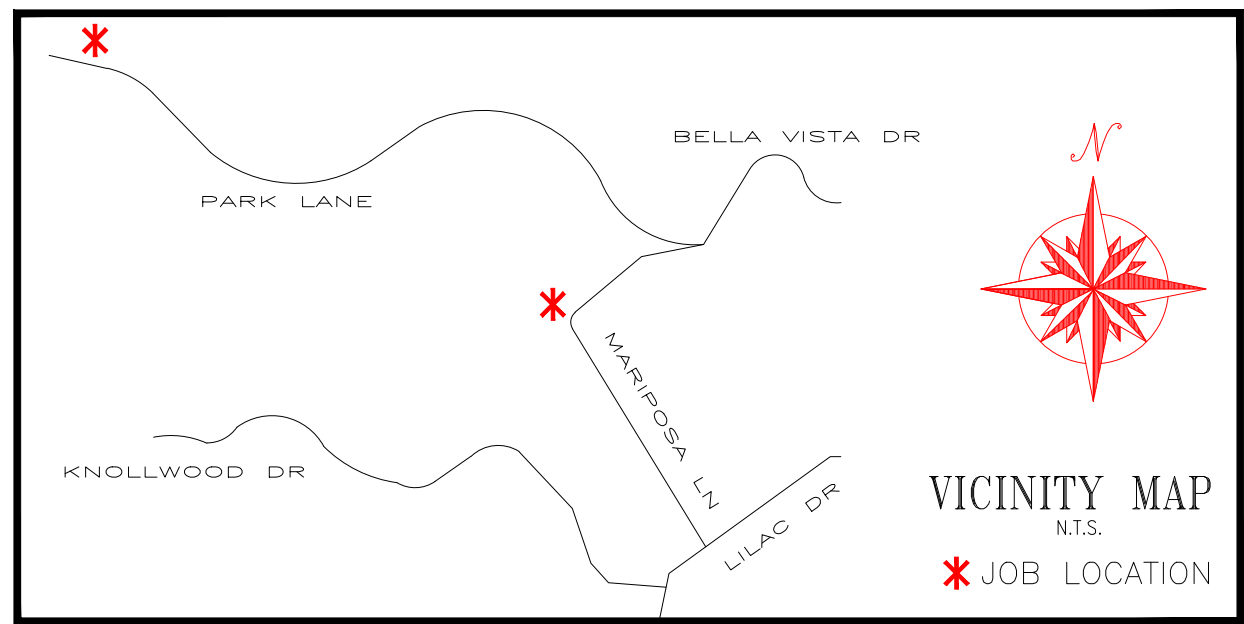
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- ALL CONDUIT SHALL BE DB 120, UNLESS OTHERWISE SPECIFIED. ALL SWEEPS TO POLES SHALL BE SCHEDULE 80.
- REMOVE AND REPLACE CURB AND GUTTER ABOVE SWEEPS TO VAULTS IN THE SIDEWALK, OR BORE UNDER CURB AND GUTTER. SETTING IS NOT ALLOWED.
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- 3/4 SACK CEMENT/SAND SLURRY BACKFILL. ALL SLURRY BACKFILL WILL REQUIRE 72 HOURS OF CURE TIME. ALL EXCAVATION AND TRENCHES WILL BE SECURED WITH STEEL PLATES.
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- MAINTAIN 12" CLEARANCE BETWEEN NEW CONDUIT AND ALL OTHER UTILITIES.



TOTAL TRENCH FOOTAGE CROWN CASTLE NG ONLY = 726.00'		TRENCH DATA		LEGEND		SCALE: 1" = 30' 30' 40' 60'		IMPORTANT NOTICE DIGIAlert Section 4216/4217 of the Government Code requires a Dig Alert identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600		PROJECT NUMBER: VR2210441CAMONUFL04 COUNTY OF SANTA BARBARA SUB MAP NO.: _____ THOMAS GUID: 987, C-7 CITY W.O.: _____ PERMIT NO.: _____ DATE: _____		REVISED		CROWN CASTLE Crown Castle NG West, Inc. BY: CE CITY OF MONTECITO SHEET 03 OF 04 SCALE: 1" = 30' DATE: 06/06/2013 LOCATION: PARK LANE & MARIPOSA LANE LOG # : - SYSTEM # : 133501-1 VERSION - MONTECITO GRID # : 6075-1988 PROJECT # : VR2210441CAMONUFL04 T.G.M. # : 987, C-7 ADDRESS # : MONTECITO, CA 93108 TYPE OF DRAWING: SUBSTRUCTURES CROWN CASTLE NG FACILITY			
BILL OF MATERIALS		① PL. 110.00' (2)-1 1/4" DUCT. BORE ② PL. 131.00' (2)-1 1/4" DUCT. BORE ③ PL. 15.00' (2)-1 1/4" DUCT. OPEN-TRENCH ④ PL. 283.00' (2)-1 1/4" DUCT. BORE		⑤ PL. 30.00' (2)-1 1/4" DUCT. BORE ⑥ PL. 10.00' (1)-2" DUCT. BORE ⑦ PL. 147.00' (2)-1 1/4" DUCT. OPEN-TRENCH		[Symbol] PROPOSED VAULT [Symbol] BORE PIT [Symbol] UTILITY POLE [Symbol] TREE/BUSH [Symbol] WATER VALVE [Symbol] FIRE HYDRANT [Symbol] STREET LIGHT		[Symbol] CENTER LINE [Symbol] PROPERTY LINE [Symbol] RIGHT OF WAY [Symbol] RIGHT OF WAY [Symbol] PROPERTY LINE [Symbol] EDGE OF PAVEMENT (EOP) [Symbol] CABLE TV		[Symbol] S.L.C. STREET LIGHT CONDUIT [Symbol] E. ELECTRIC [Symbol] T. TELEPHONE [Symbol] G. GAS [Symbol] S.D. STORM DRAIN [Symbol] S.S. SANITARY SEWER [Symbol] W. WATER		[Symbol] CONDUIT DATA BLOCK [Symbol] CONDUIT CT. DISTANCE [Symbol] CONDUIT SIZE		[Symbol] 17" x 30" (ASPH) [Symbol] 17" x 30" (CONC) [Symbol] 17" x 30" (DIRT) [Symbol] 1 1/2" PVC [Symbol] 2" PVC [Symbol] 4" PVC		[Symbol] 162.00' [Symbol] 564.00' [Symbol] CONCRETE [Symbol] ASPHALT [Symbol] 0' [Symbol] 0'	

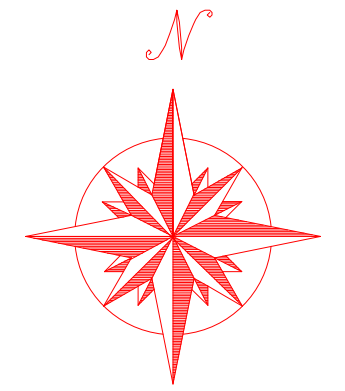
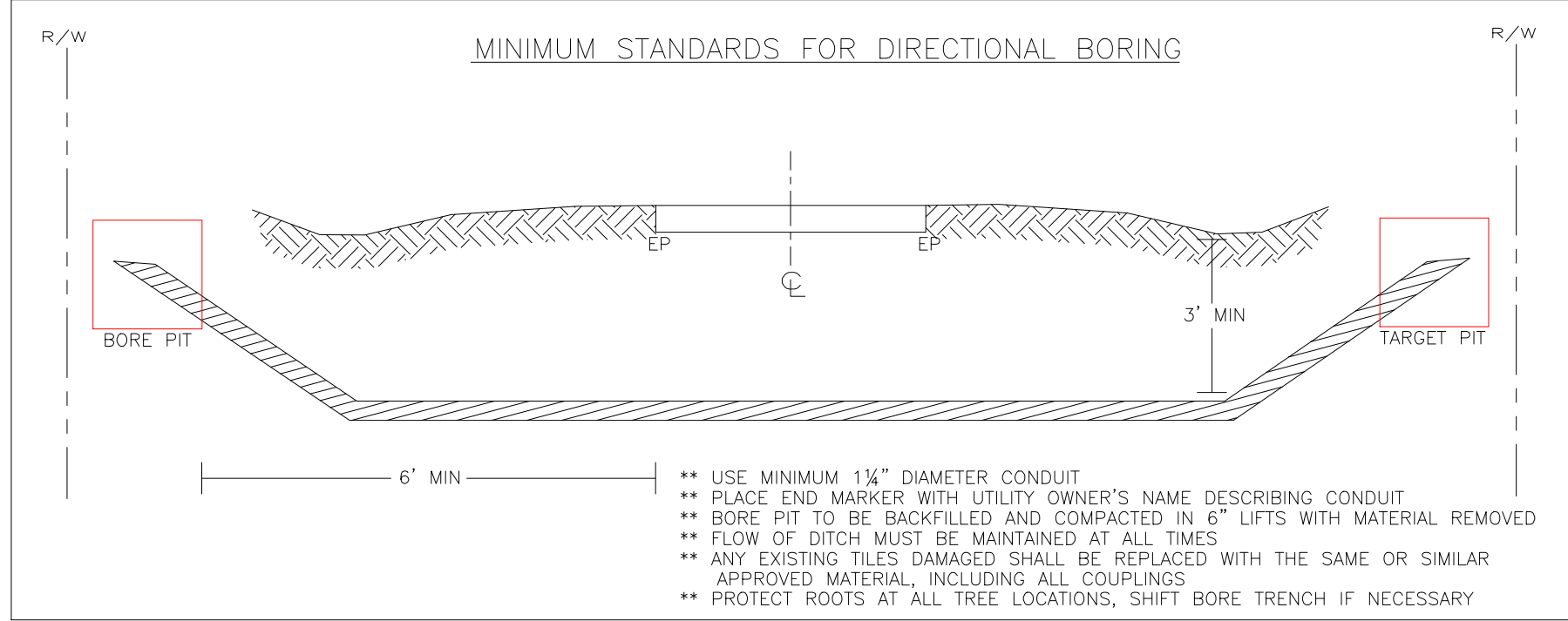
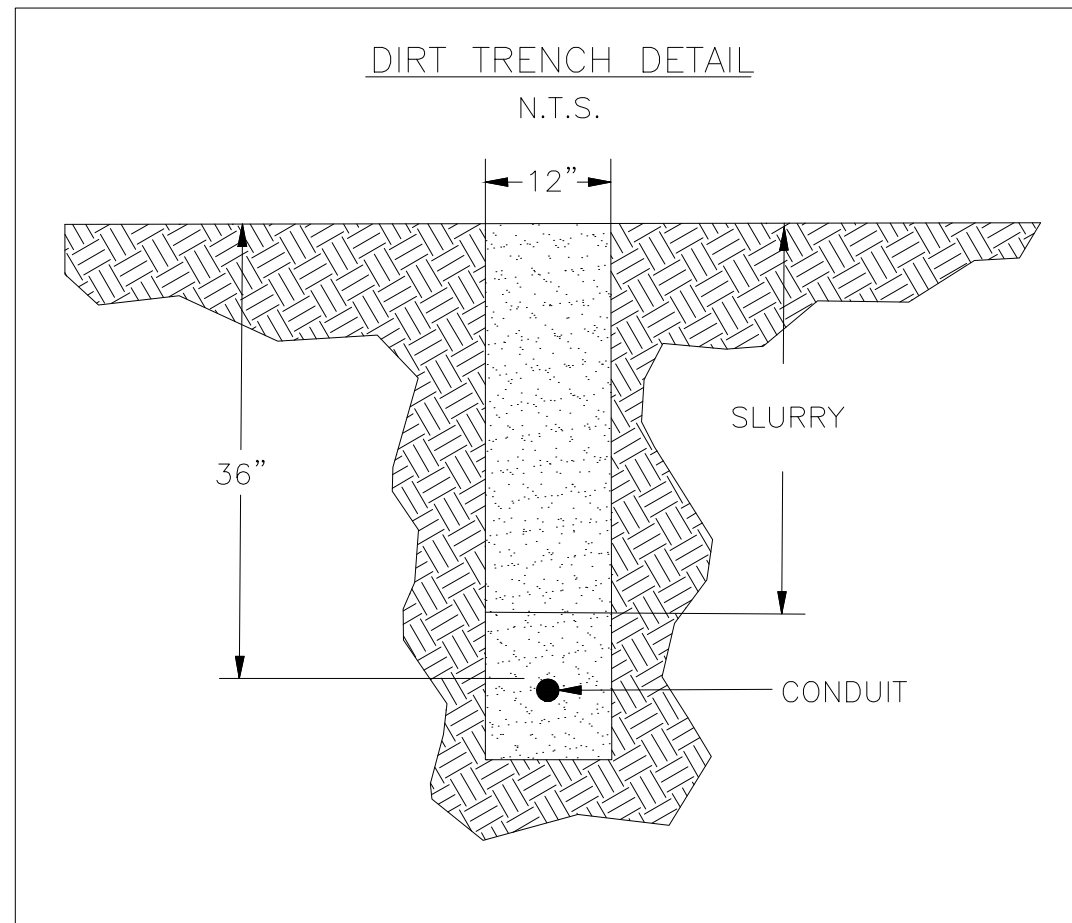
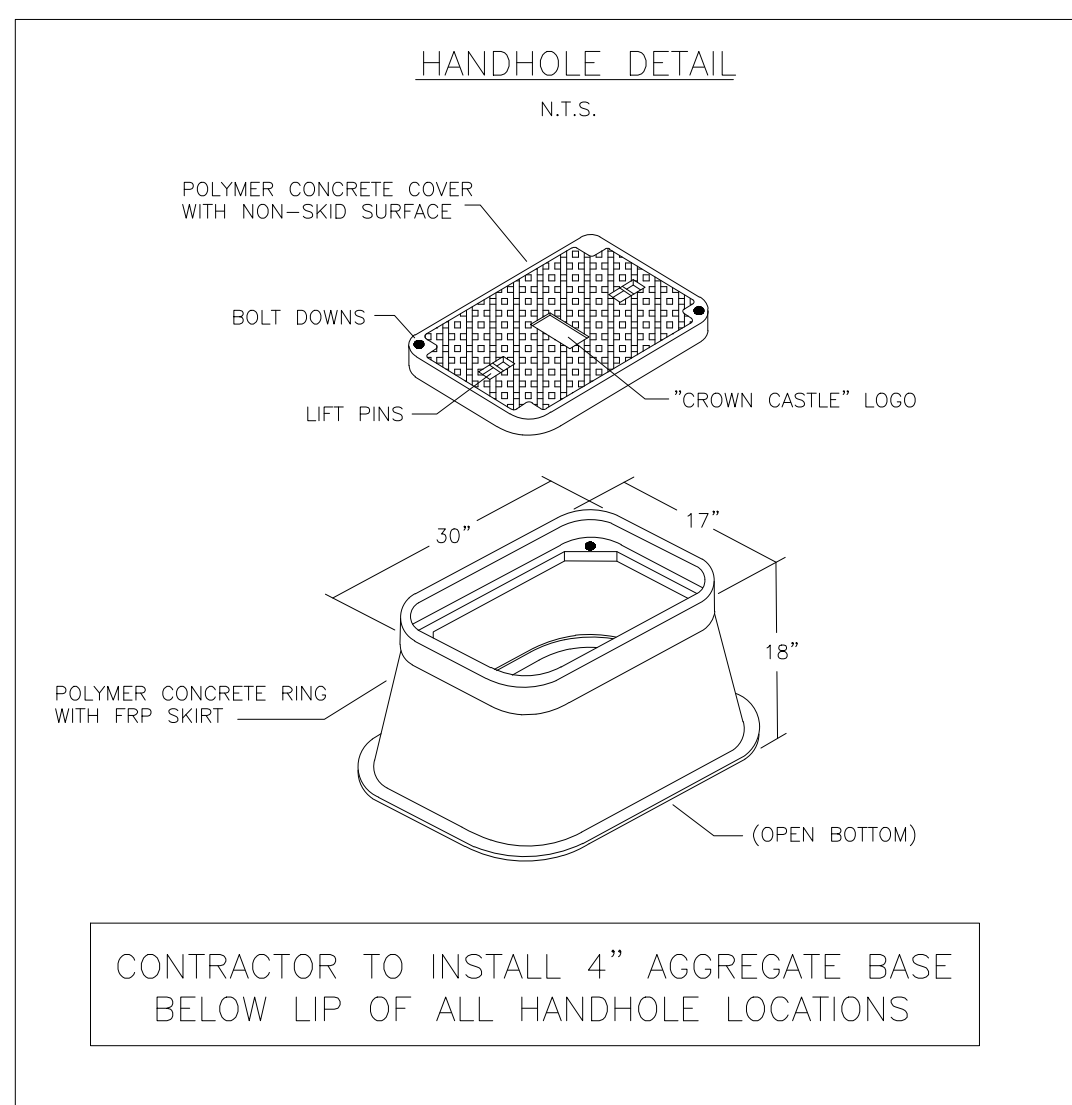
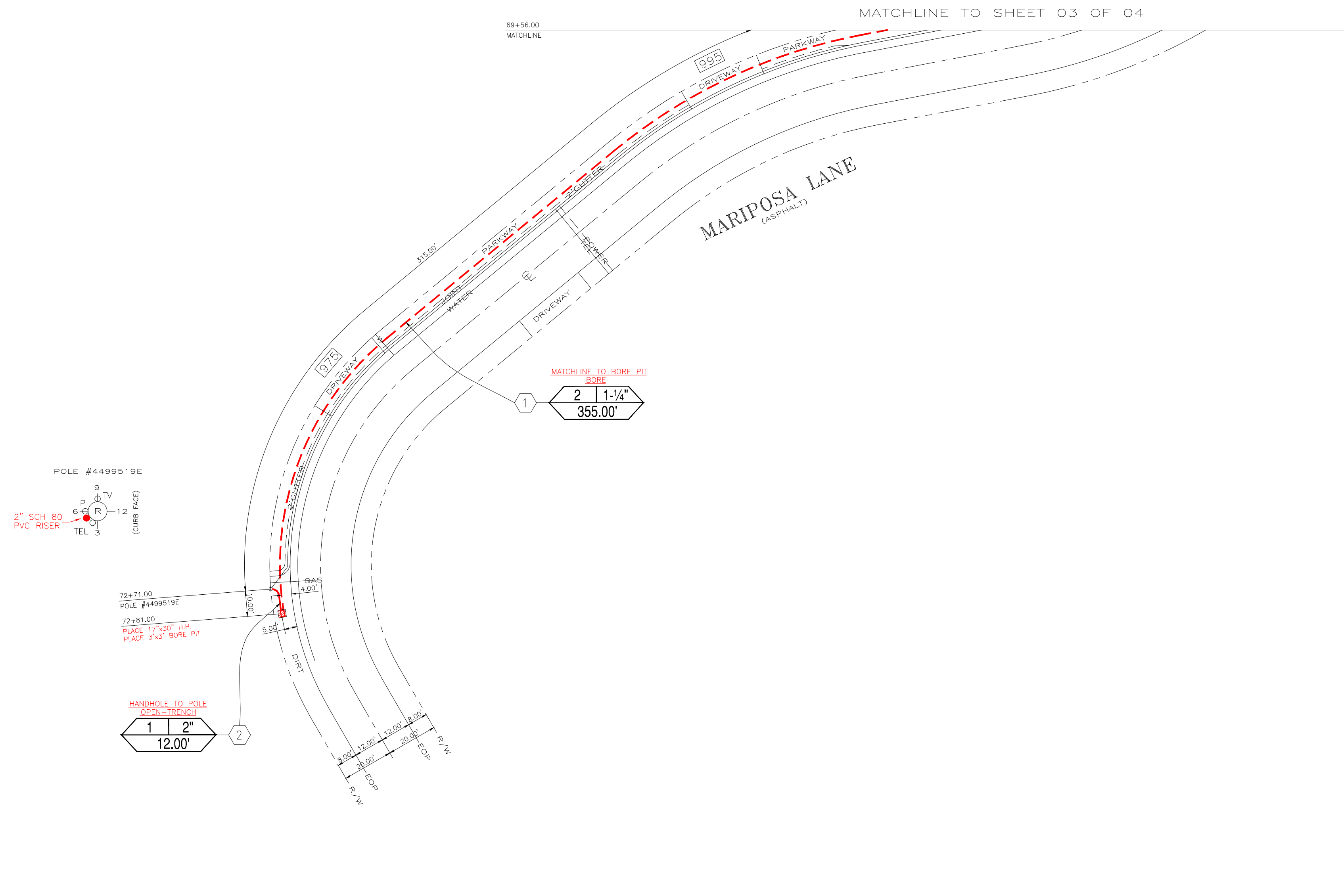
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- TUNNEL ALL CURBS AND GUTTERS AND BORE ALL DRIVEWAYS AND WALKWAYS.
- EXISTING PORTLAND CEMENT CONCRETE SHALL BE SAW CUT TO FACILITATE REMOVAL BY THE USE OF A POWER DRIVEN SAW. THE DEPTH OF CUT SHALL BE DEEP ENOUGH TO PRODUCE A CLEAN STRAIGHT BREAK WITHOUT CRACKING, CHIPPING OR LOOSENING ADJOINING PCC. THE EXISTING PCC SHALL BE CUT BEYOND THE CONFIGURATION OF THE TRENCH OR EXCAVATION AREA AS MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR TO ELIMINATE SMALL "FLOATING" PIECES OF CONCRETE, SUCH AS WHERE THE EXISTING PCC IS DAMAGED OR CRACKED. IN GENERAL, THE REPLACEMENT SHALL BE TO THE EXTENT THAT THERE ARE NO FLOATING PIECES OF PCC LEFT REMAINING WHICH ARE SMALLER THAN 9 SQUARE FEET IN AREA. IN ADDITION, THE SAW CUT LIMITS SHALL BE LOCATED NO CLOSER THAN 3 FEET FROM A SCORE LINE OR COLD JOINT. MIN. PCC REMOVAL IS 22 SQUARE FEET. SCORE LINE TO SCORE LINE.
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- REMOVE AND REPLACE CURB AND GUTTER ABOVE SWEEPS TO VAULTS IN THE SIDEWALK, OR BORE UNDER CURB AND GUTTER. SETTING IS NOT ALLOWED.
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- ALL SHRUBS, PLANTS, OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK SHALL BE REPLANTED OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
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- REPLACE ANY EXISTING STRIPING, MARKINGS AND SURVEY MONUMENTS THAT MAY HAVE BEEN REMOVED OR DAMAGED.
- ACCESS SHALL BE PROVIDED TO ALL FIRE HYDRANTS, VALVES, VAULTS, METERS, AND PULL BOXES AT ALL TIMES. TRAFFIC SIGNALS, PEDESTRIAN SIGNALS AND STOP SIGNS SHALL REMAIN UNOBSTRUCTED AT ALL TIMES.
- SEE ADDITIONAL NOTES ON THE EXCAVATION PERMIT.
- HANDHOLES, VAULT OR SUBSURFACE EQUIPMENT ENCLOSURES SHALL BE MARKED AS TO OWNERSHIP TO FACILITATE IDENTIFICATION BY PERSONS AUTHORIZED BY TO WORK THEREIN AND BY OTHER PERSONS PERFORMING WORK IN THEIR VICINITY.
- MANHOLES AND HANDHOLES, WHILE NOT BEING WORKED IN SHALL BE SECURELY CLOSED BY COVERS OF SUFFICIENT STRENGTH TO SUSTAIN SUCH LOADS AS MAY REASONABLY BE IMPOSED UPON THEM, AND ARRANGEMENT SHALL BE SUCH THAT A TOOL OR APPLIANCE SHALL BE REQUIRED FOR THEIR OPENING AND COVER REMOVAL.
- ALL VAULT AND MANHOLES SHALL CONFORM TO APPLICABLE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS (A.A.S.H.O.) STANDARD SPECIFICATIONS H20-516-44 FOR HIGHWAY BRIDGES, LATEST REVISION, RELATING TO DEAD LOADS, LIVE LOADS, AND IMPACT LOADS. ADDITIONALLY, LOADS DUE TO A GROUND WATER TABLE OF THREE (3) FEET SHALL BE APPLIED IN CALCULATING DESIGN LOADS.
- MAINTAIN 12" CLEARANCE BETWEEN NEW CONDUIT AND ALL OTHER UTILITIES.



TOTAL CONSTRUCTION TOTALS:
367.00' OF PLACE FIBER CONDUIT

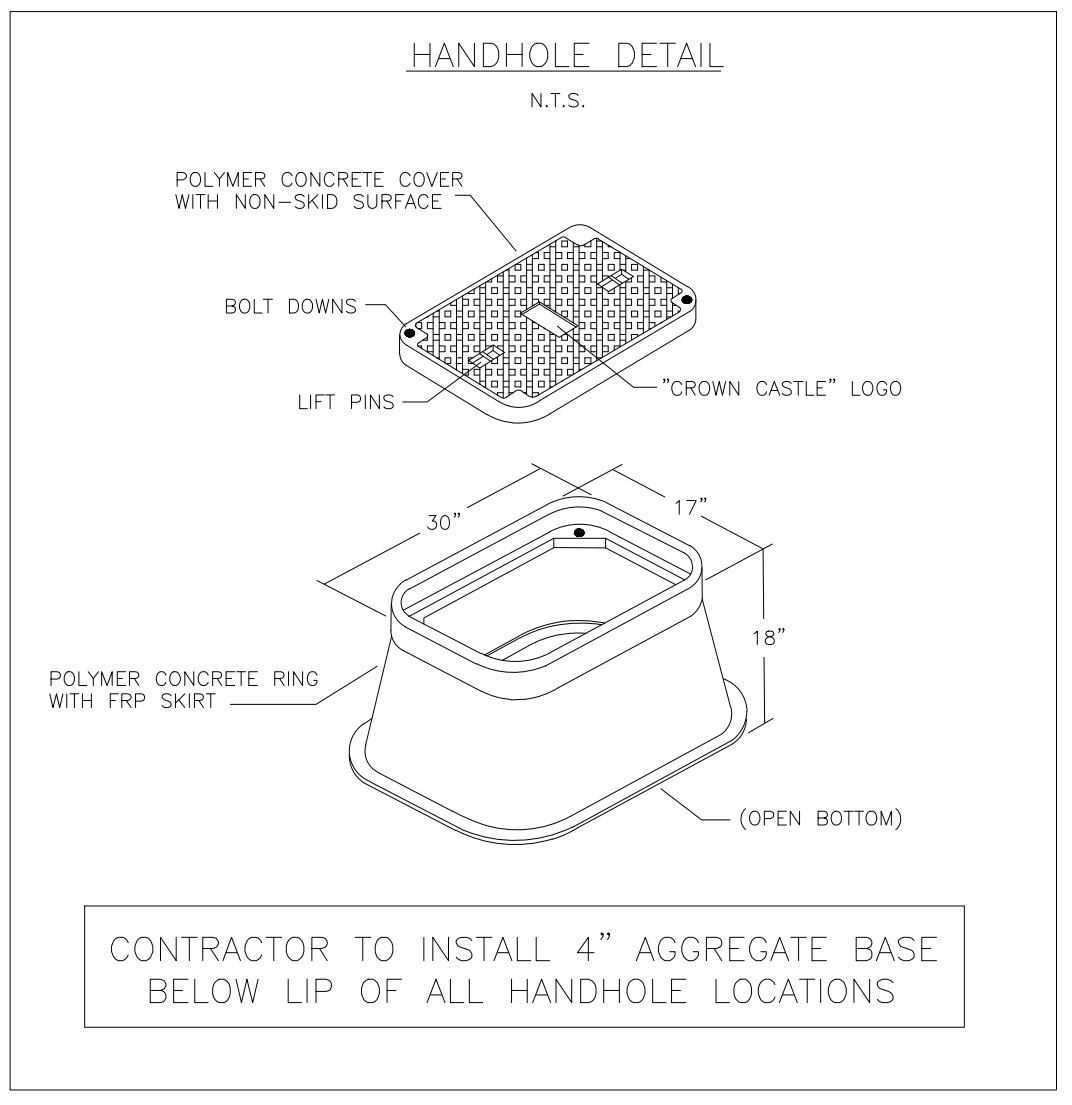
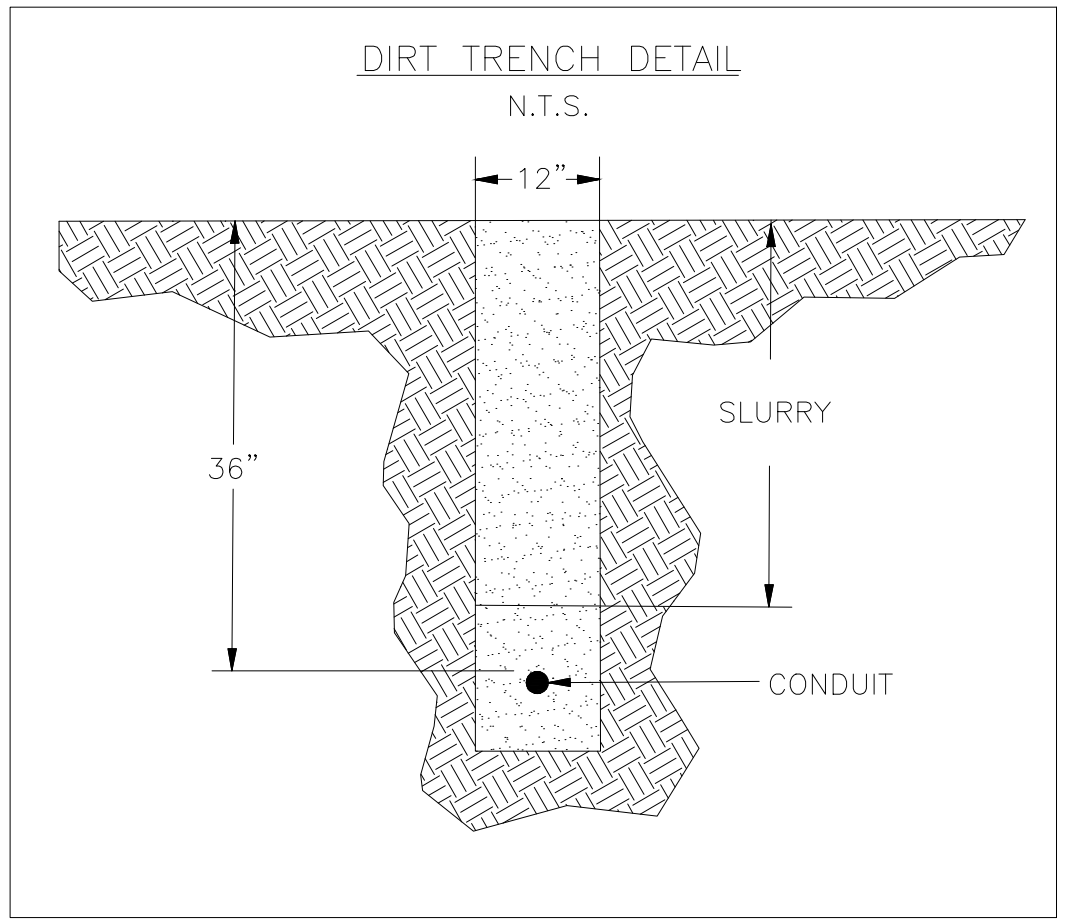
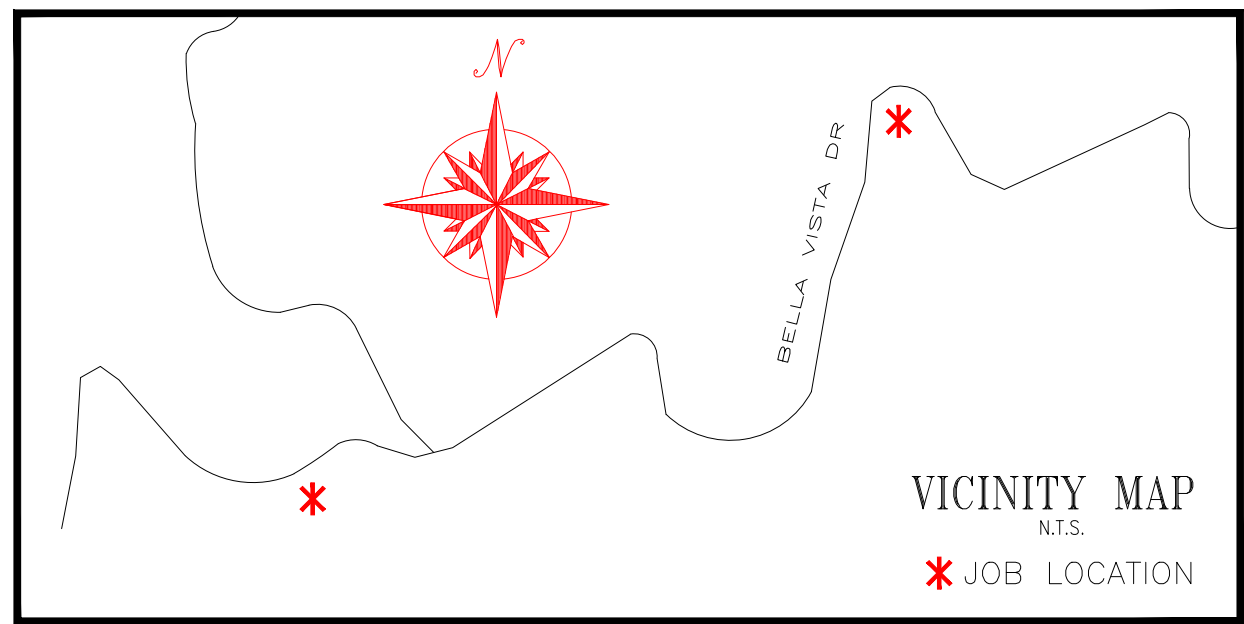
NOTE
 CONTRACTOR IS TO IDENTIFY ANY UNDERGROUND UTILITIES WITHIN THE VICINITY BEFORE CONSTRUCTION BEGINS.



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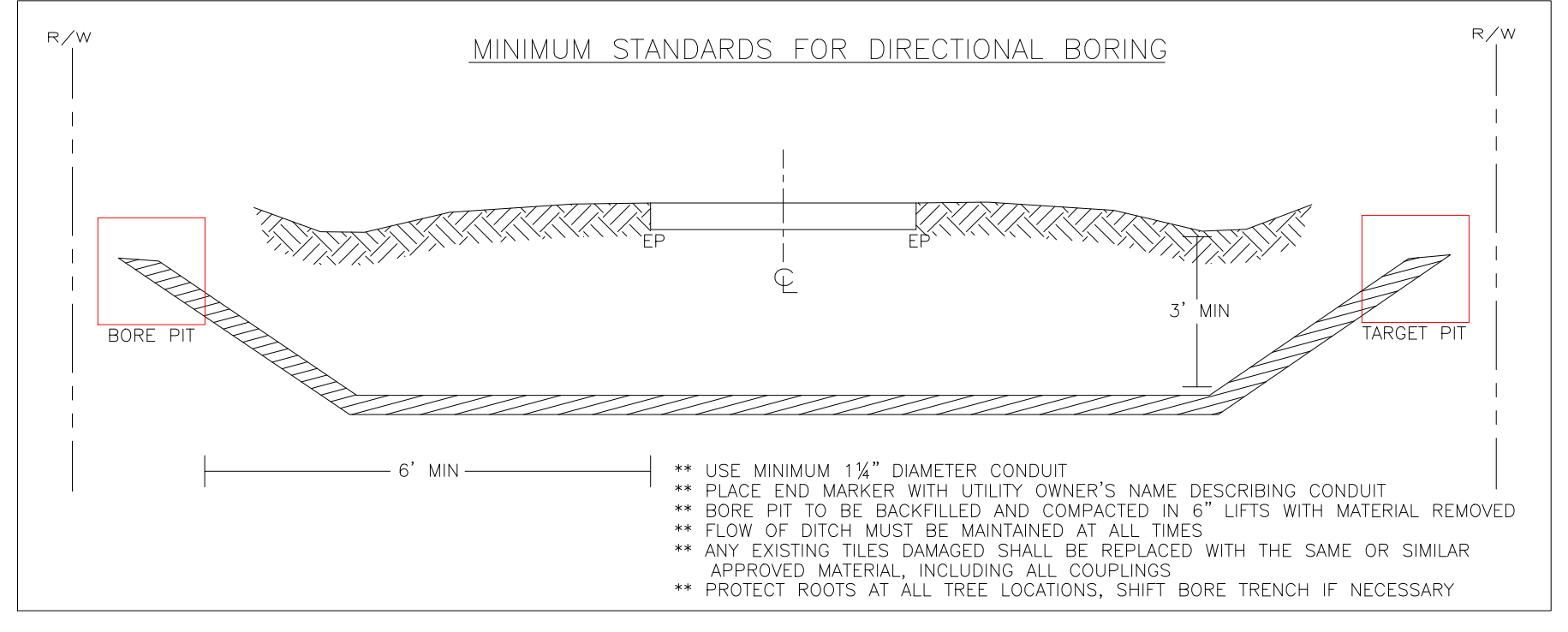
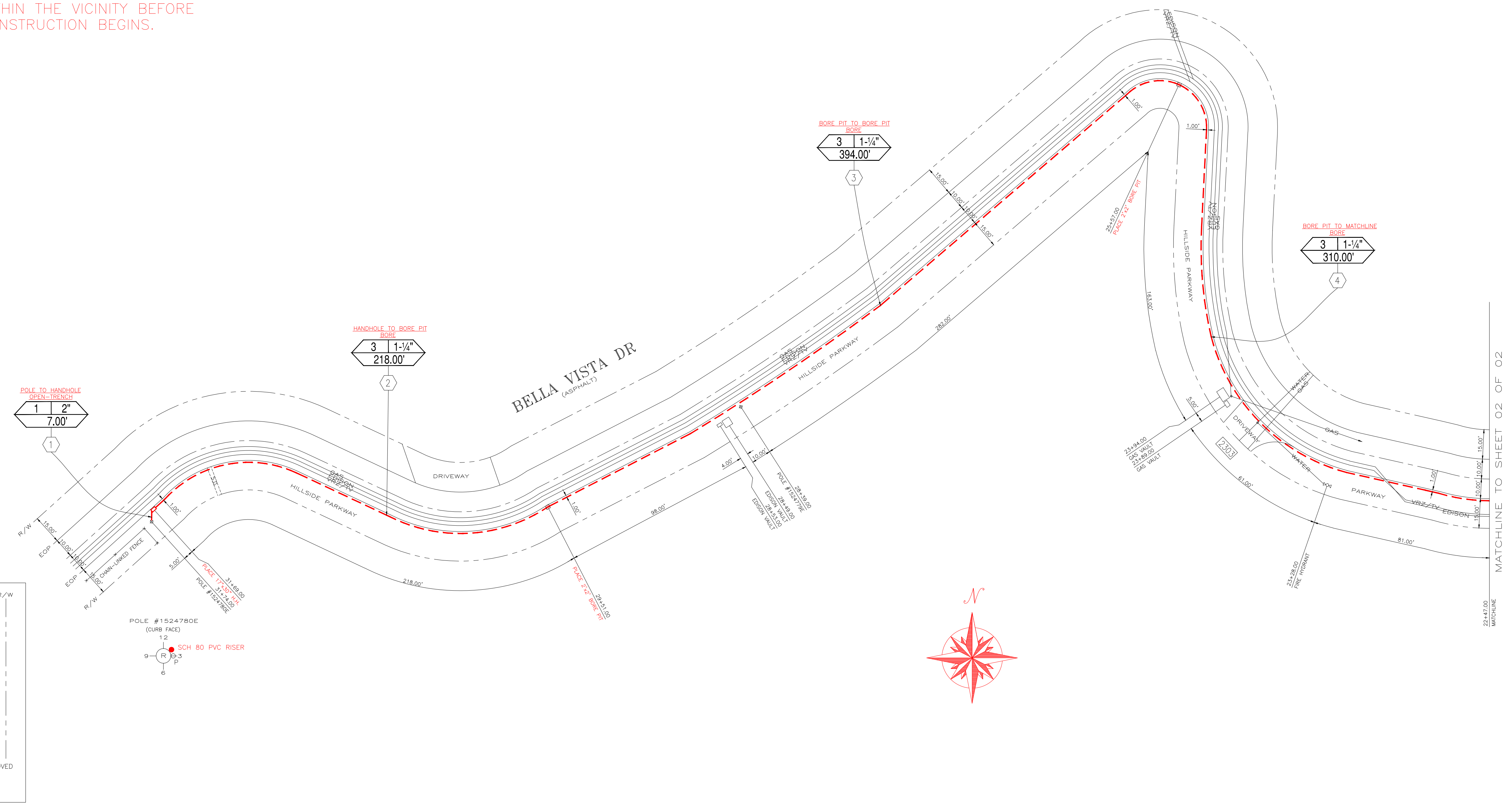
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- MAINTAIN 12" CLEARANCE BETWEEN NEW CONDUIT AND ALL OTHER UTILITIES.



NOTE
CONTRACTOR IS TO IDENTIFY ANY UNDERGROUND UTILITIES WITHIN THE VICINITY BEFORE CONSTRUCTION BEGINS.

**TOTAL CONSTRUCTION TOTALS:
929.00' OF PLACE FIBER CONDUIT**



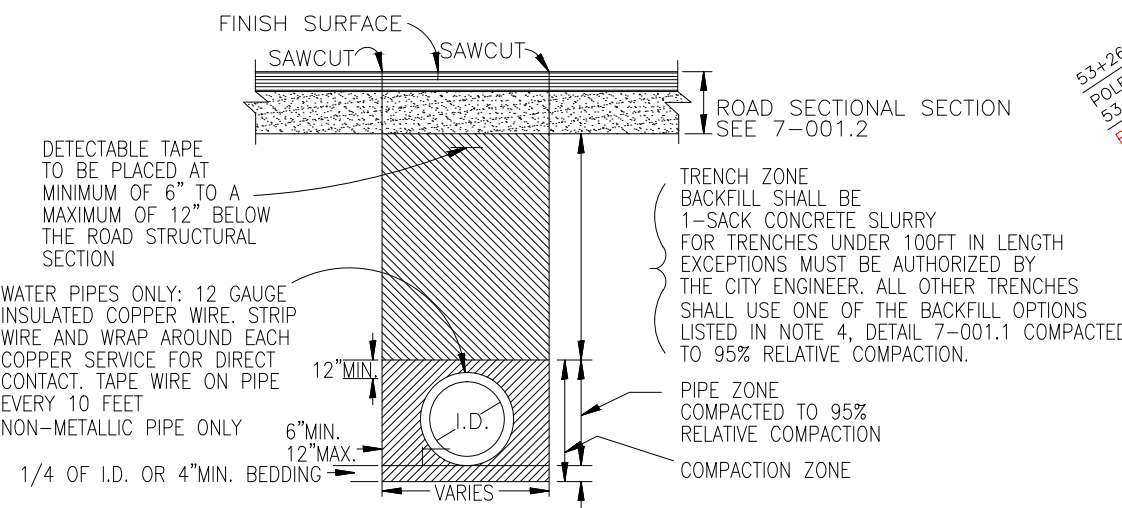
TOTAL TRENCH FOOTAGE		TRENCH DATA		LEGEND		SCALE: 1" = 30'		IMPORTANT NOTICE		PROJECT NUMBER:		REVISED			
CROWN CASTLE, NG ONLY = 929.00'										VR2210441CAMONUFL05 COUNTY OF SANTA BARBARA					
BILL OF MATERIALS DESCRIPTION QUANTITY VAULTS 17" x 30" (ASPH) 0 24" x 36" (DIRT) 0 17" x 30" (DIRT) 1 CONDUIT 1 1/2" PVC 922' 2" PVC 7' 4" PVC 0'		① PL. 7.00' (1)-2" DUCT. OPEN-TRENCH ② PL. 218.00' (3)-1 1/4" DUCT. BORE ③ PL. 394.00' (3)-1 1/4" DUCT. BORE ④ PL. 310.00' (3)-1 1/4" DUCT. BORE		SYMBOL DESCRIPTION SYMBOL DESCRIPTION PROPOSED VAULT BORE PIT UTILITY POLE TREE/BUSH WATER VALVE FIRE HYDRANT STREET LIGHT CENTER LINE PROPERTY LINE RIGHT OF WAY CONCRETE SIDEWALK PARKWAY CONDUIT DATA BLOCK CONDUIT CT. DISTANCE CONDUIT SIZE		ABRV. DESCRIPTION SLC STREET LIGHT CONDUIT E ELECTRIC T TELEPHONE G GAS SD STORM DRAIN SS SANITARY SEWER W WATER TV CABLE TV		Engineered By: Jon Schweers Jason Jimenez 4095 E. La Palma Ave., Ste. A Anaheim, Ca. 92801 Business (714) 630-4053 Fax (714) 630-3052		Section 4216/4217 of the Government Code requires a Dig Alert identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600		SUB MAP NO. : THOMAS GUIDE : 987, D-7 CITY W.O. : PERMIT NO. : DATE :		SCALE: 1" = 30' DATE: 09/17/2013 LOCATION: BELLA VISTA DRIVE, 1500' WEST OF ROMERO CANYON ROAD LOG # : - GRID # : 6078-1988 PROJECT # : VR2210441CAMONUFL05 SYSTEM # : 133301-1 VERIZON - MONTECITO T.G.M. # : 987, D-7 ADDRESS # : MONTECITO, CA 93108 TYPE OF DRAWING: SUBSTRUCTURES CROWN CASTLE NG FACILITY	

CONSTRUCTION NOTES

- ALL WORK SHALL CONFORM TO LATEST EDITION OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY AS MODIFIED BY STANDARD PLANS AND ADDENDUM.
- THE EXISTENCE AND LOCATION OF UTILITY LINES SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER UTILITY LINES MAY EXIST; CONTRACTOR SHALL VERIFY PRIOR TO START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE SAME. HE IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES, VALVES, METERS, TRAFFIC SIGNAL CONDUIT & DETECTOR LOOPS, ETC. WITHIN LIMITS OF WORK WHETHER THEY ARE SHOWN ON THESE PLANS OR NOT.
- AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK NOTIFY UNDERGROUND SERVICE ALERT (1-800-422-4133).
- INDemnIFICATION CLAUSE—CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTIONS OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE PER "MACH" (WORK AREA TRAFFIC CONTROL HANDBOOK) UNLESS NOTED OTHERWISE.
- ALL PAVEMENTS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE RECONSTRUCTED PER THE COUNTY OF SANTA BARBARA IMPROVEMENTS STANDARD.
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- THE CONTRACTOR SHALL HAVE COPIES OF THE PLANS ON THE PROJECT SITE AND BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
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- ALL BACKHOLE EXCAVATION SHALL BE SAW CUT TO FACILITATE REMOVAL BY THE USE OF A POWER DRIVEN SAW. THE DEPTH OF CUT SHALL BE DEEP ENOUGH TO PRODUCE A CLEAN STRAIGHT BREAK.
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- UNLESS OTHERWISE NOTED: 1" CONDUIT BENDS SHALL HAVE A RADIUS OF 3"; 2" CONDUIT BENDS SHALL HAVE A RADIUS OF 2". PLACE 2" SACK SLURRY MIX AROUND ALL CONDUIT BENDS HAVING A RADIUS OF LESS THAN 60".
- ALL CONDUIT SHALL BE DB 120, UNLESS OTHERWISE SPECIFIED. ALL SWEEPS TO POLES SHALL BE SCHEDULE 80.
- REMOVE AND REPLACE CURB AND GUTTER ABOVE SWEEPS TO VAULTS IN THE SIDEWALK, OR BORE UNDER CURB AND GUTTER. SETTING IS NOT ALLOWED.
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- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE DEPARTMENTS OF THE CITY AT LEAST TWO DAYS BEFORE START OF WORK. DURING THE COURSE OF WORK, THE CONTRACTOR SHALL CALL FOR INSPECTION OF ALL APPLICABLE WORK.
- ALL SHRUBS, PLANTS, OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK SHALL BE REPLANTED OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- DURING THE COURSE OF THE WORK, PEDESTRIAN AND VEHICULAR ACCESS MUST BE MAINTAINED AT ALL TIMES.
- NON-SKID CALTRANS APPROVED STEEL PLATES SHALL BE CEESSED IN TRENCH CROSSING MAJOR STREETS (AREA DESIGNATED BY CITY ENGINEER) AND INSTALLED PER CALTRANS SPEC. PAVEMENT SHALL BE COLD PLACED TO A DEPTH EQUAL TO THE THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSIONS OF THE PLATES.
- TEMPORARY PAVING WITH COLD MIX SHALL BE USED TO FEATHER THE EDGES OF THE PLATES TO MINIMIZE WHEEL IMPACT. CONTRACTOR MAY BE REQUIRED TO SWEEP UP LOOSE GRAVEL SEVERAL TIMES PER DAY AS DEEMED NECESSARY BY CITY ENGINEER.
- BRIDGING SHALL BE SECURED AGAINST DISPLACEMENT USING ADJUSTABLE CLEATS, SHIMS OR OTHER DEVICES.
- RESTORE ALL LANDSCAPING, INCLUDING IRRIGATION SYSTEM AROUND VAULTS.
- VAULT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
- NEW PAVEMENT THICKNESS SHALL BE EXISTING PLUS ONE INCH. USE T-SECTION CUT (ADD 6 INCH CUT ON EACH SIDE OF TRENCH WIDTH). TOP 2" WEARING SURFACE SHALL BE A.C. C-2-AR-4000, AND BASE PAVEMENT SHALL BE A.C. B-AR-4000.
- TACK COAT SHALL BE APPLIED OVER ROADWAY SURFACE PRIOR TO PAVEMENT INSTALLATION. TACK COAT SHALL BE AR-4000 HOT TACK EMULSIFIED ASPHALT PER "GREEN BOOK" REQUIREMENTS.
- 3/4" SACK CEMENT/SAND SLURRY BACKFILL ALL SLURRY BACKFILL WILL REQUIRE 72 HOURS OF CURE TIME. ALL EXCAVATION AND TRENCHES WILL BE SECURED WITH STEEL PLATES.
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- MAINTAIN 12" CLEARANCE BETWEEN NEW CONDUIT AND ALL OTHER UTILITIES.

TOTAL CONSTRUCTION TOTALS:
828.00' OF PLACE FIBER CONDUIT

7-001.0-06 TRENCH BEDDING AND BACKFILL

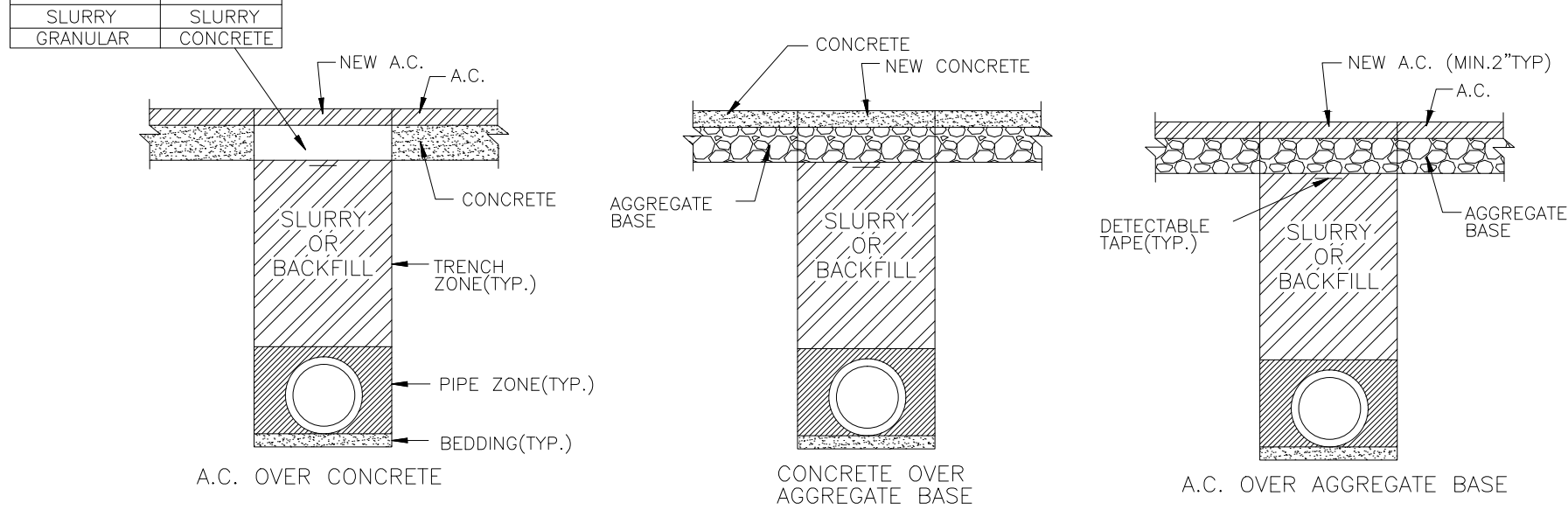


7-001.1-06 NOTES

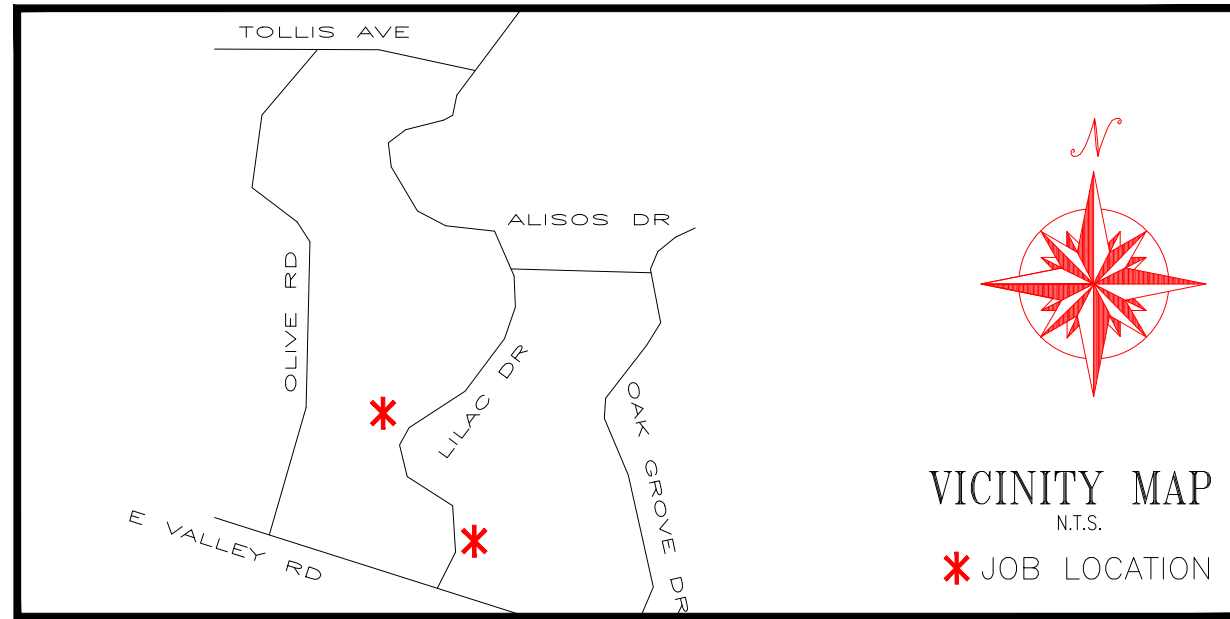
- IMPROVEMENTS CONSTRUCTED UNDER THIS STANDARD DETAIL SHALL CONFORM TO APPLICABLE PROVISIONS OF THE STANDARD SPECIFICATIONS FOR THE PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- TRENCH WIDTH SHALL BE AS SHOWN, UNLESS OTHERWISE SPECIFIED ON PLANS.
- PIPE ZONE MATERIAL SHALL BE SAND WITH A SAND EQUIVALENT GREATER THAN 50.
- BACKFILL SHALL A MAXIMUM OF 8-INCH LIFTS AND MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING:
 - CRUSHED AGGREGATE BASE.
 - CRUSHED MISCELLANEOUS BASE.
 - BACKFILL MATERIAL WITH SAND EQUIVALENT GREATER THAN 50.
- THE ENGINEER SHALL APPROVE ALL BACKFILL MATERIAL PRIOR TO BACKFILLING TRENCH. CONTRACTOR MUST SUBMIT SAND EQUIVALENT TESTS, PER ASTM D2419, FOR ALL BACKFILL AND BEDDING, BOTH NATIVE AND IMPORTED, AND IDENTIFY THE SOURCE OF THE MATERIAL.
- BEDDING AND BACKFILL SHALL BE COMPACTED MECHANICALLY. COMPACTION BY FLOODING, PONDING, OR JETTING SHALL NOT BE PERMITTED.
- COMPACTION TEST: PER ASTM D1557, CURRENT REVISION, WILL BE REQUIRED BY THE ENGINEER AT VARIOUS DEPTHS IN THE TRENCH. AT INTERVALS NOT TO EXCEED 250 FEET. ALL TESTS SHALL BE PAID FOR BY THE CONTRACTOR, AND PERFORMED BY A LABORATORY APPROVED BY THE CITY, UNLESS OTHERWISE SPECIFIED.
- A CONTINUOUS LENGTH OF 3-INCH WIDE DETECTABLE TAPE, TERRATAPE OR APPROVED EQUAL, SHALL BE PLACED IN A DIRECT LINE OVER ALL PIPES, AS SHOWN. TAPE COLOR SHALL BE BLUE FOR WATER, GREEN FOR SEWER, YELLOW FOR ELECTRICAL, AND PURPLE FOR RECLAIMED WATER.
- THE ROADWAY STRUCTURAL SECTION SHALL BE OF THE SAME MATERIAL AND THICKNESS AS EXISTING, BUT SHALL BE A MINIMUM OF 2-1/2-INCHES ASPHALT OVER 6-INCHES AGGREGATE BASE FOR RESIDENTIAL STREETS AND 3-1/2-INCHES ASPHALT OVER 8-INCHES AGGREGATE FOR COMMERCIAL STREETS. FOR ALL CONCRETE STREETS, THE MINIMUM SECTION SHALL BE 6-INCHES OF CLASS 560-C-3250 CONCRETE OVER 6-INCHES AGGREGATE BASE.

- NOTE: STANDARD DETAIL 7-004.0-06 UTILITY SEPARATION FROM CITY WATER, SEWER, RECLAIMED PIPELINES, AND STORM DRAINS.
- NOTE: STANDARD DETAIL 1-006.0-06 SIDEWALK PLANS.
- NOTE: STANDARD DETAIL 1-006.1-06 SIDEWALK SECTIONS.
- NOTE: STANDARD DETAIL 1-007.0-10 ACCESS RAMP NOTES & STANDARD DETAIL 1-007.3-10 DIAGONAL ACCESS RAMP.

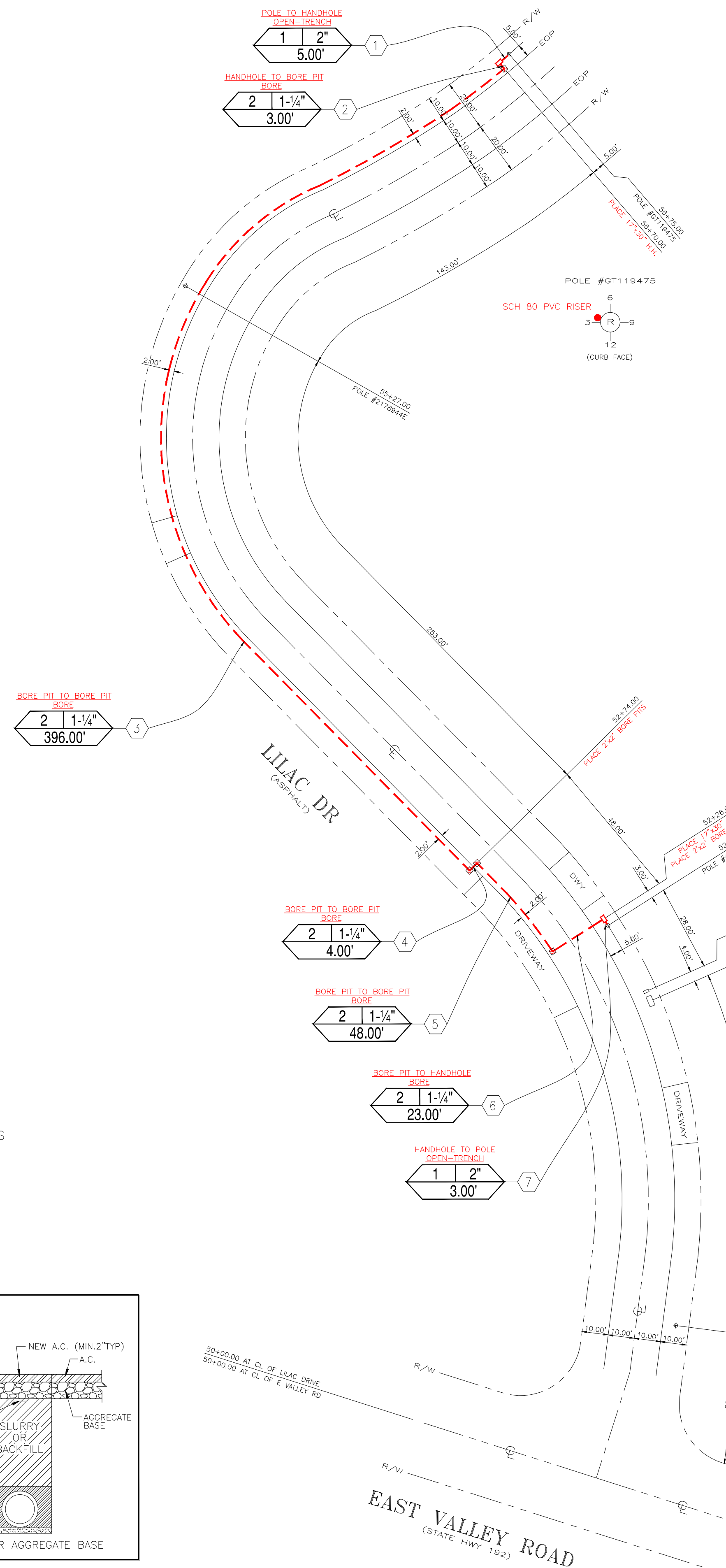
7-001.2-06 TRENCH PAVING REQUIREMENTS



TOTAL TRENCH FOOTAGE		TRENCH DATA		LEGEND		IMPORTANT NOTICE		PROJECT NUMBER:		REVISED																																																				
CROWN CASTLE NG ONLY = 828.00'						<p>SCALE: 1" = 30'</p> <p>Engineered By: connect solutions ENGINEERING</p> <p>4095 E. La Palma Ave., Ste. A Anaheim, Ca. 92805 Business (714) 635-9251 Fax (714) 635-3052</p>		<p>VR2210441CAMONUFL06</p> <p>COUNTY OF SANTA BARBARA</p> <p>THUS MAP NO. : SUBMAG GUIDE : 997, C-1 CITY W.O. : PERMIT NO. : DATE :</p>		<p>DATE : 08/29/2013</p> <p>LOCATION : LILAC DRIVE & ALISOS DRIVE</p> <p>LOG # : -</p> <p>SYSTEM # : 133031-1</p> <p>VERSION : MONTECITO</p> <p>TYPE OF DRAWING: SUBSTRUCTURES CROWN CASTLE NG FACILITY</p>																																																				
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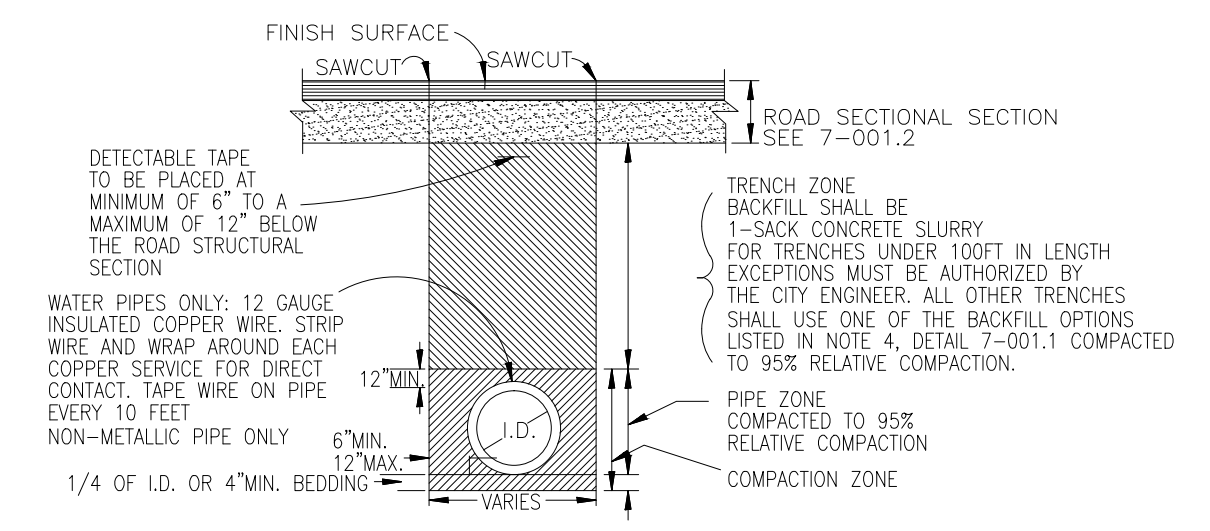
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- REMOVE AND REPLACE CURB AND GUTTER ABOVE SWEEPS TO VAULTS IN THE SIDEWALK, OR BORE UNDER CURB AND GUTTER. JETTING IS NOT ALLOWED.
- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE DEPARTMENTS OF THE CITY AT LEAST TWO DAYS BEFORE START OF WORK. DURING THE COURSE OF WORK, THE CONTRACTOR SHALL CALL FOR INSPECTION OF ALL APPLICABLE WORK.
- ALL SHRUBS, PLANTS, OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK SHALL BE REPLANTED OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- DURING THE COURSE OF THE WORK, PEDESTRIAN AND VEHICULAR ACCESS MUST BE MAINTAINED AT ALL TIMES.
- NON-SKID CALTRANS APPROVED STEEL PLATES SHALL BE RECESSED IN TRENCH CROSSING MAJOR STREETS (AREA DESIGNATED BY CITY ENGINEER) AND INSTALLED PER CALTRANS SPECS. PAVEMENT SHALL BE COLD PLANED TO A DEPTH EQUAL TO THE THICKNESS OF THE PLATE AND TO A WIDTH AND LENGTH EQUAL TO THE DIMENSIONS OF THE PLATES.
- STEEL PLATES USED FOR BRIDGING MUST EXTEND A MINIMUM OF 12" BEYOND EDGES OF TRENCH.
- TEMPORARY PAVING WITH COLD MIX SHALL BE USED TO FEATHER THE EDGES OF THE PLATES TO MINIMIZE WHEEL IMPACT. CONTRACTOR MAY BE REQUIRED TO WELD PLATES TOGETHER TO MINIMIZE RATTLING. CONTRACTOR MAY BE REQUIRED TO SWEEP UP LOOSE GRAVEL SEVERAL TIMES PER DAY AS DEEMED NECESSARY BY CITY ENGINEER.
- BRIDGING SHALL BE SECURED AGAINST DISPLACEMENT USING ADJUSTABLE CLEATS, SHIMS OR OTHER DEVICES.
- RESTORE ALL LANDSCAPING, INCLUDING IRRIGATION SYSTEM AROUND VAULTS.

- VAULT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.
- NEW PAVEMENT THICKNESS SHALL BE EXISTING PLUS ONE INCH. USE T-SECTION CUT (ADD 6 INCH CUT ON EACH SIDE OF TRENCH WIDTH). TOP 2" WEARING SURFACE SHALL BE A.C. C-2-AR-4000, AND BASE PAVEMENT SHALL BE A.C. B-AR-4000.
- 3/4 SACK CEMENT/SAND SLURRY BACKFILL. ALL SLURRY BACKFILL WILL REQUIRE 72 HOURS OF CURE TIME. ALL EXCAVATION AND TRENCHES WILL BE SECURED WITH STEEL PLATES.
- PERMANENT PAVING SHALL BE COMPLETED WITHIN TWO WEEKS AFTER EXCAVATION. TEMPORARY PAVING USING COLD MIX A.C. IS ACCEPTABLE AFTER ALLOWING 72 HOURS OF CURE TIME ON SLURRY MIX BACKFILL.
- REPLACE ANY EXISTING STRIPING, MARKINGS AND SURVEY MONUMENTS THAT MAY HAVE BEEN REMOVED OR DAMAGED.
- ACCESS SHALL BE PROVIDED TO ALL FIRE HYDRANTS, VALVES, VAULTS, METERS, AND PULL BOXES AT ALL TIMES. TRAFFIC SIGNALS, PEDESTRIAN SIGNALS AND STOP SIGNS SHALL REMAIN UNOBSTRUCTED AT ALL TIMES.
- SEE ADDITIONAL NOTES ON THE EXCAVATION PERMIT.
- HANDHOLES, VAULT OR SUBSURFACE EQUIPMENT ENCLOSURES SHALL BE MARKED AS TO OWNERSHIP TO FACILITATE IDENTIFICATION BY PERSONS PERFORMING WORK IN THEIR VICINITY.
- MANHOLES AND HANDHOLES, WHILE NOT BEING WORKED IN SHALL BE SECURELY CLOSED BY COVERS OF SUFFICIENT STRENGTH TO SUSTAIN SUCH LOADS AS MAY REASONABLY BE IMPOSED UPON THEM, AND ARRANGEMENT SHALL BE SUCH THAT A TOOL OR APPLIANCE SHALL BE REQUIRED FOR THEIR OPENING AND COVER REMOVAL.
- ALL VAULT AND MANHOLES SHALL CONFORM TO APPLICABLE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS (A.A.S.H.O.) STANDARD SPECIFICATIONS H20-220-44 FOR HIGHWAY BRIDGES, LATEST REVISION, RELATING TO DEAD LOADS, LIVE LOADS, AND IMPACT LOADS. ADDITIONALLY, LOADS DUE TO A GROUND WATER TABLE OF THREE (3) FEET FROM FINISHED GRADE AND A SURCHARGE OF (2) FEET SHALL BE APPLIED IN CALCULATING DESIGN LOADS.
- MAINTAIN 12" CLEARANCE BETWEEN NEW CONDUIT AND ALL OTHER UTILITIES.

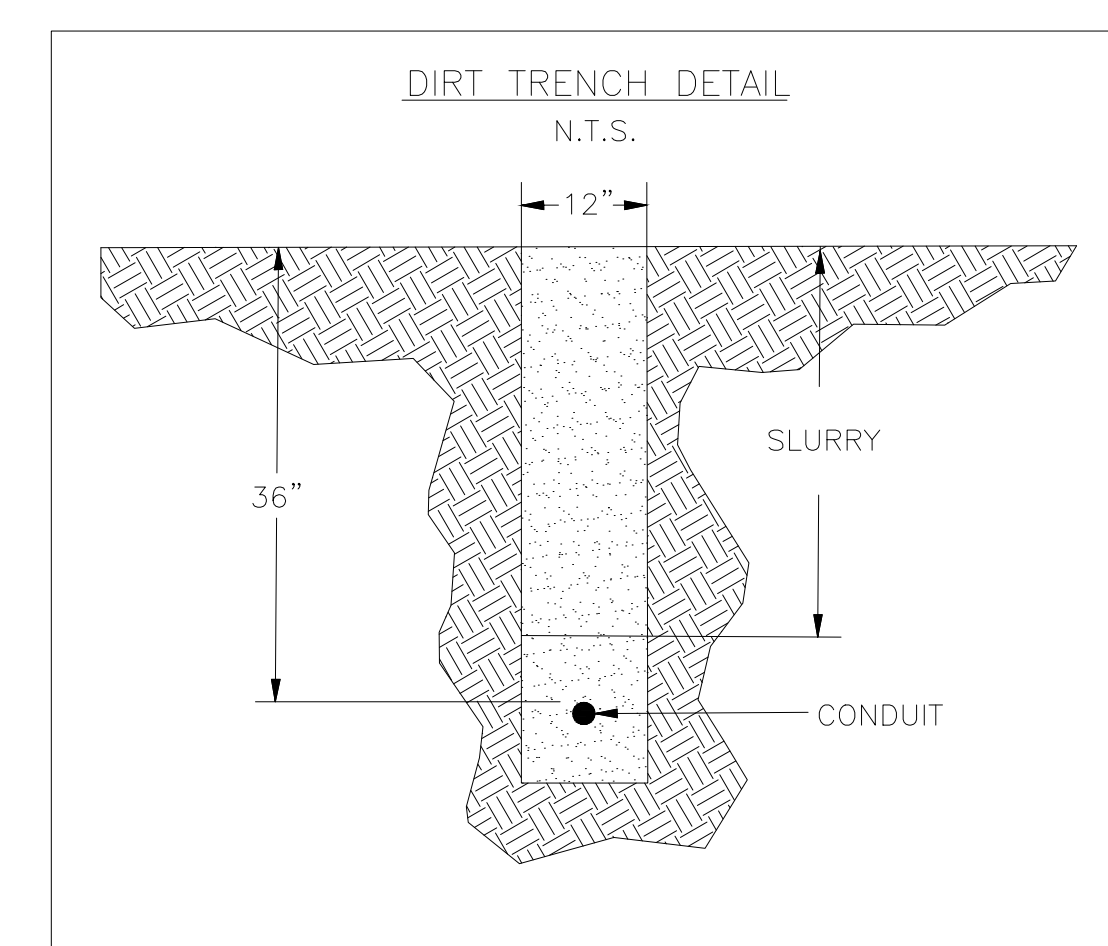
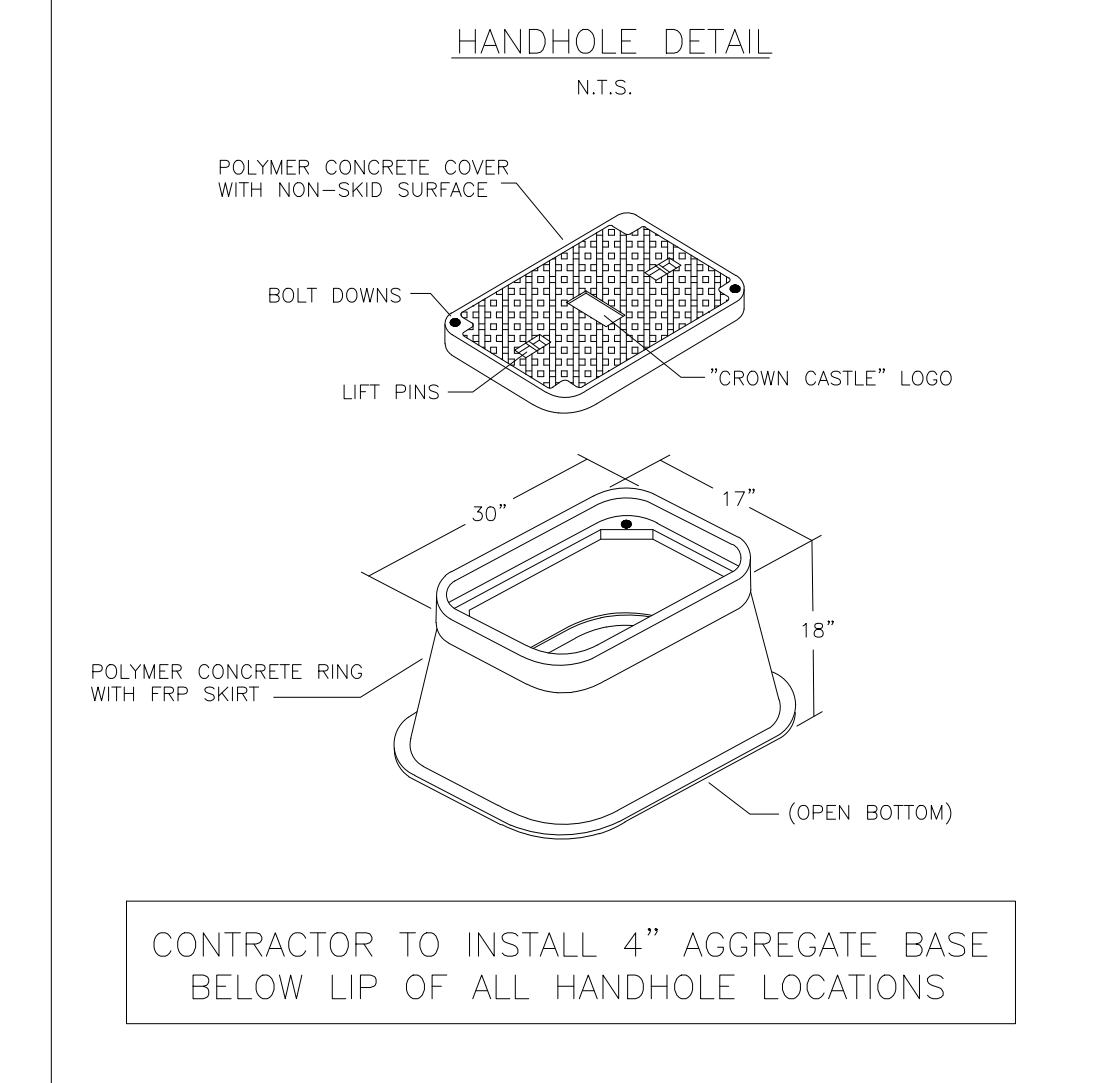
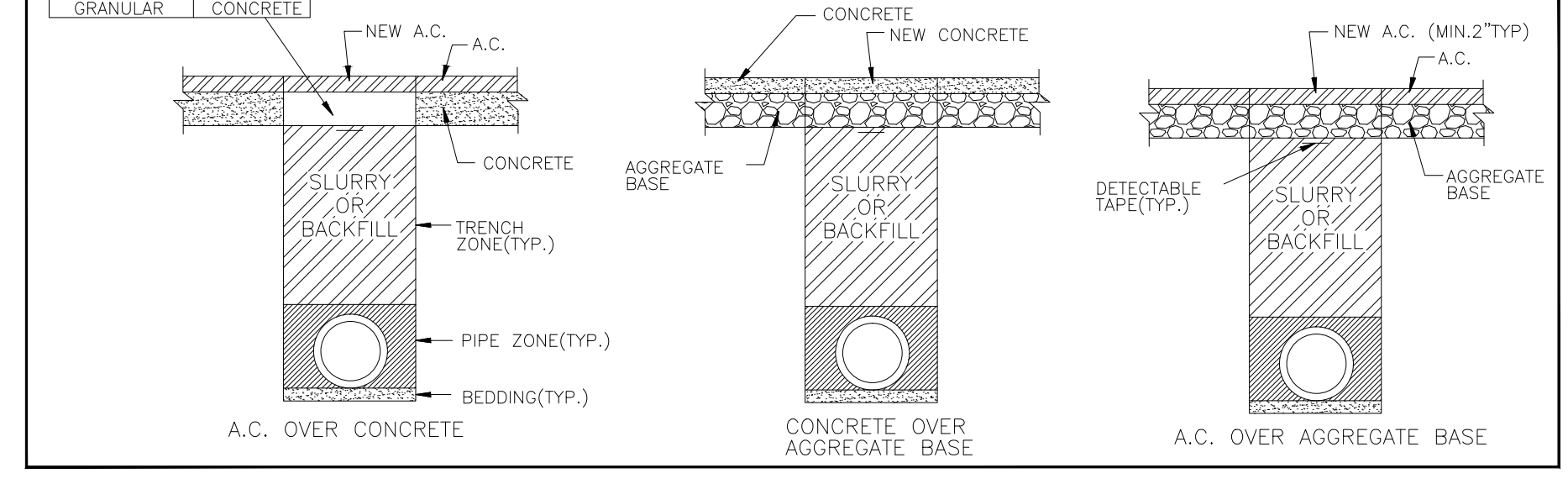
7-001.0-06 TRENCH BEDDING AND BACKFILL



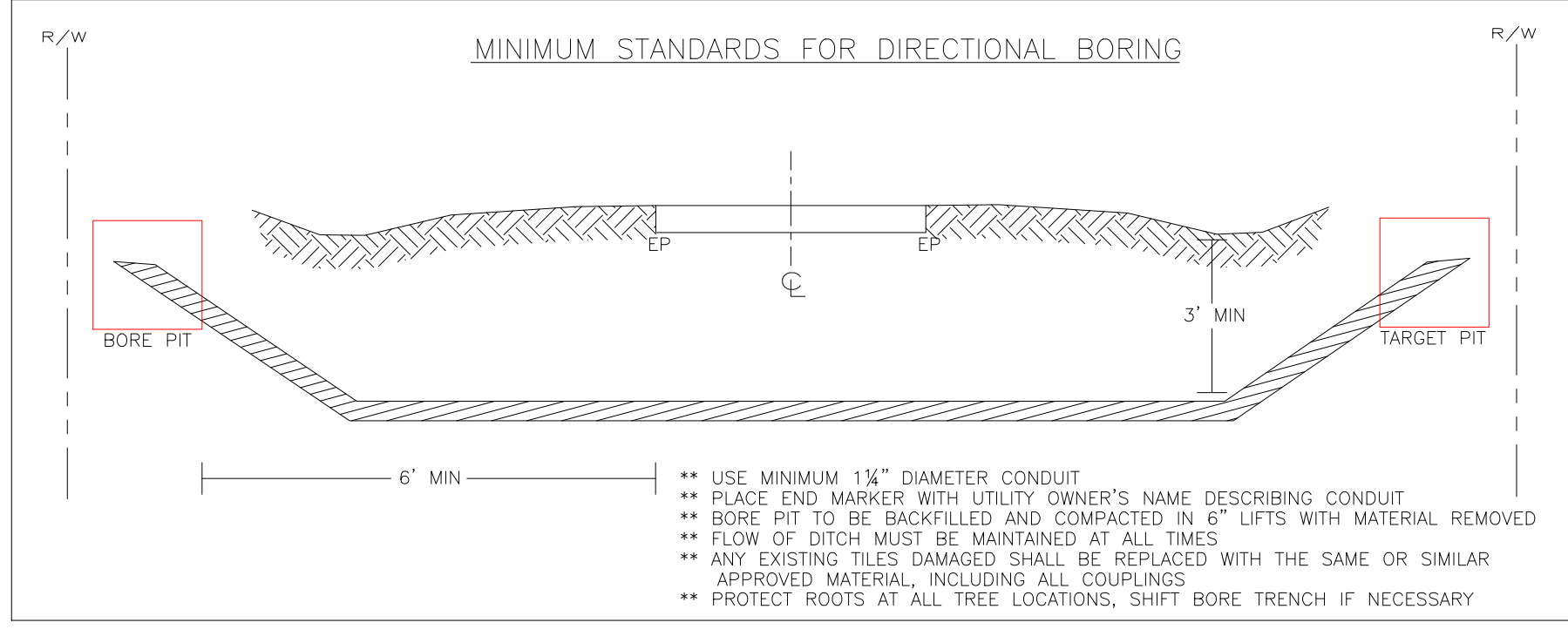
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- TRENCH WIDTH SHALL BE AS SHOWN, UNLESS OTHERWISE SPECIFIED ON PLANS.
- PIPE ZONE MATERIAL SHALL BE SAND WITH A SAND EQUIVALENT GREATER THAN 50.
- BACKFILL SHALL A MAXIMUM OF 8-INCH LIFTS AND MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING:
 A) CRUSHED AGGREGATE BASE.
 B) CRUSHED MISCELLANEOUS BASE.
 C) BACKFILL MATERIAL WITH SAND EQUIVALENT GREATER THAN 50.
- THE ENGINEER SHALL APPROVE ALL BACKFILL MATERIAL PRIOR TO BACKFILLING TRENCH. CONTRACTOR MUST SUBMIT SAND EQUIVALENT TESTS, PER ASTM D2419, FOR ALL BACKFILL AND BEDDING, BOTH NATIVE AND IMPORTED, AND IDENTIFY THE SOURCE OF THE MATERIAL.
- BEDDING AND BACKFILL SHALL BE COMPACTED MECHANICALLY. COMPACTON BY FLOODING, PONDING, OR JETTING SHALL NOT BE PERMITTED.
- COMPACTION TEST, PER ASTM D1557, CURRENT REVISION, WILL BE REQUIRED BY THE ENGINEER AT VARIOUS DEPTHS IN THE TRENCH, AT INTERVALS NOT TO EXCEED 250 FEET. ALL TESTS SHALL BE PAID FOR BY THE CONTRACTOR, AND PERFORMED BY A LABORATORY APPROVED BY THE CITY, UNLESS OTHERWISE SPECIFIED.
- A CONTINUOUS LENGTH OF 3-INCH WIDE DETECTABLE TAPE, TERRAZOTE OR APPROVED EQUAL, SHALL BE PLACED IN A DIRECT LINE OVER ALL PIPES. TAPE COLOR SHALL BE BLUE FOR WATER, GREEN FOR SEWER, YELLOW FOR ELECTRICAL AND PURPLE FOR RECLAIMED WATER.
- THE ROADWAY STRUCTURAL SECTION SHALL BE OF THE SAME MATERIAL AND THICKNESS AS EXISTING, BUT SHALL BE A MINIMUM OF 2-1/2-INCHES ASPHALT OVER 6-INCHES AGGREGATE BASE FOR RESIDENTIAL STREETS AND 3-1/2-INCHES ASPHALT OVER 8-INCHES AGGREGATE FOR COMMERCIAL STREETS. FOR ALL CONCRETE STREETS, THE MINIMUM SECTION SHALL BE 6-INCHES OF CLASS 560-C-3250 CONCRETE OVER 6-INCHES AGGREGATE BASE.

- NOTE: STANDARD DETAIL 7-004.0-06 UTILITY SEPARATION FROM CITY WATER, SEWER, RECLAIMED PIPELINES, AND STORM DRAINS.
- NOTE: STANDARD DETAIL 1-006.0-06 SIDEWALK PLANS.
- NOTE: STANDARD DETAIL 1-006.1-06 SIDEWALK SECTIONS.
- NOTE: STANDARD DETAIL 1-007.0-10 ACCESS RAMP NOTES & STANDARD DETAIL 1-007.3-10 DIAGONAL ACCESS RAMP.

7-001.2-06 TRENCH PAVING REQUIREMENTS



NOTE
 CONTRACTOR IS TO IDENTIFY ANY UNDERGROUND UTILITIES WITHIN THE VICINITY BEFORE CONSTRUCTION BEGINS.



TOTAL TRENCH FOOTAGE		TRENCH DATA	
CROWN CASTLE NG ONLY = 482.00'			
VAULTS	0	1. PL. 5.00' (1)-2" DUCT. OPEN-TRENCH	5. PL. 48.00' (2)-1 1/4" DUCT. BORE
CONDUIT	474'	2. PL. 3.00' (2)-1 1/4" DUCT. BORE	6. PL. 23.00' (2)-1 1/4" DUCT. BORE
	8'	3. PL. 396.00' (2)-1 1/4" DUCT. BORE	7. PL. 3.00' (1)-2" DUCT. OPEN-TRENCH
	0'	4. PL. 4.00' (2)-1 1/4" DUCT. BORE	
		DIRT 8.00'	CONCRETE 0'
		BORE 474.00'	ASPHALT 0'

LEGEND	
SYMBOL	DESCRIPTION
[Red Box]	PROPOSED VAULT
[Red Line]	BORE PIT
[Blue Circle]	UTILITY POLE
[Green Circle]	TREE/BUSH
[Blue Circle]	WATER VALVE
[Red Circle]	FIRE HYDRANT
[Red Circle]	STREET LIGHT
[Red Line]	PROPOSED CC/NG DUCT
[Red Dashed Line]	PROPOSED CC/NG BORE
[Red Dotted Line]	CENTER LINE
[Red Dash-dot Line]	RIGHT OF WAY
[Red Dash-dot-dot Line]	PROPERTY LINE
[Red Solid Line]	CURB
[Red Dashed Line]	CABLE TV
[Red Circle]	RIGHT OF WAY
[Red Circle]	PROPERTY LINE
[Red Circle]	CONCRETE SIDEWALK
[Red Circle]	PARKWAY
[Red Circle]	STORM DRAIN
[Red Circle]	SANITARY SEWER
[Red Circle]	WATER
[Red Circle]	TELEPHONE
[Red Circle]	GAS
[Red Circle]	STREET LIGHT CONDUIT
[Red Circle]	ELECTRIC
[Red Circle]	CONDUIT DATA BLOCK
[Red Circle]	CONDUIT CT. DISTANCE
[Red Circle]	CONDUIT SIZE
[Red Circle]	TV

SCALE: 1" = 30'

Engineered by: **connect solutions ENGINEERING**

Jon Schneers
Jason Jimenez

4905 E. La Palma Ave., Ste. A
Anaheim, Ca. 92805
Phone: (714) 632-3052

IMPORTANT NOTICE
 DIGAULT
 Section 4216/4217 of the Government Code requires a Dig Alert identification Number to be issued before a Permit to Excavate will be valid. For your Dig Alert I.D. Number call **CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600**

PROJECT NUMBER: **VR2210441CAMONUFL07**

COUNTY OF SANTA BARBARA

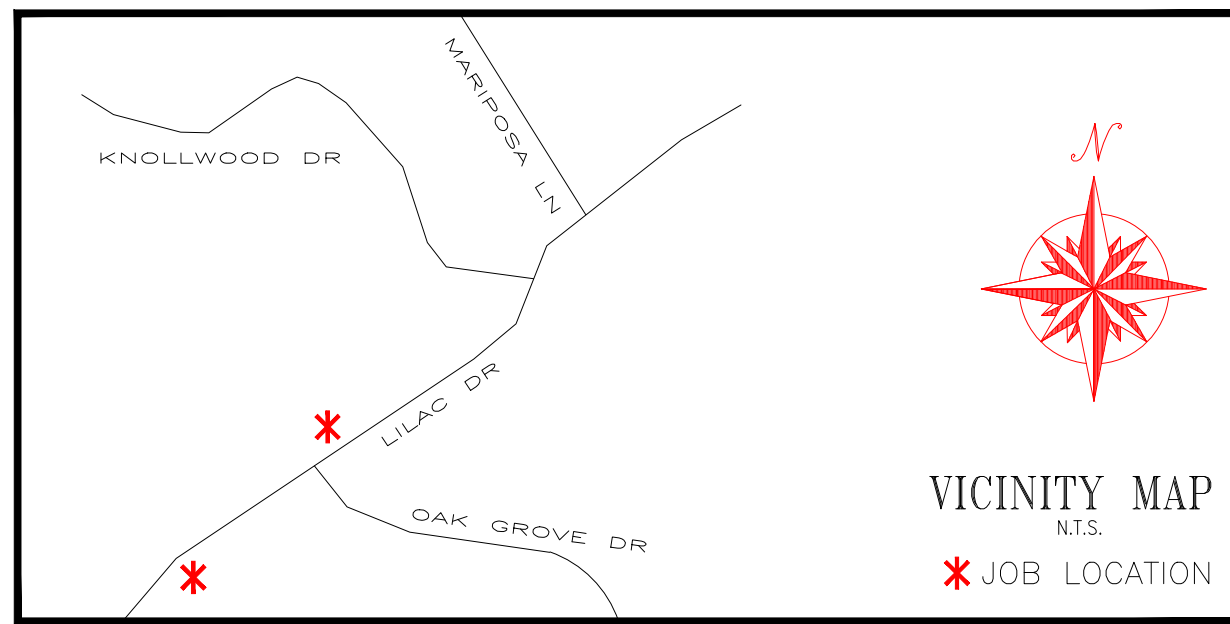
SUB MAP NO.:
 THOMAS GUIDE: 997, C-1
 CITY W.O.:
 PERMIT NO.:
 DATE:

REVISIONS:

CROWN CASTLE
 Crown Castle NG West, Inc.
 CITY OF MONTECITO

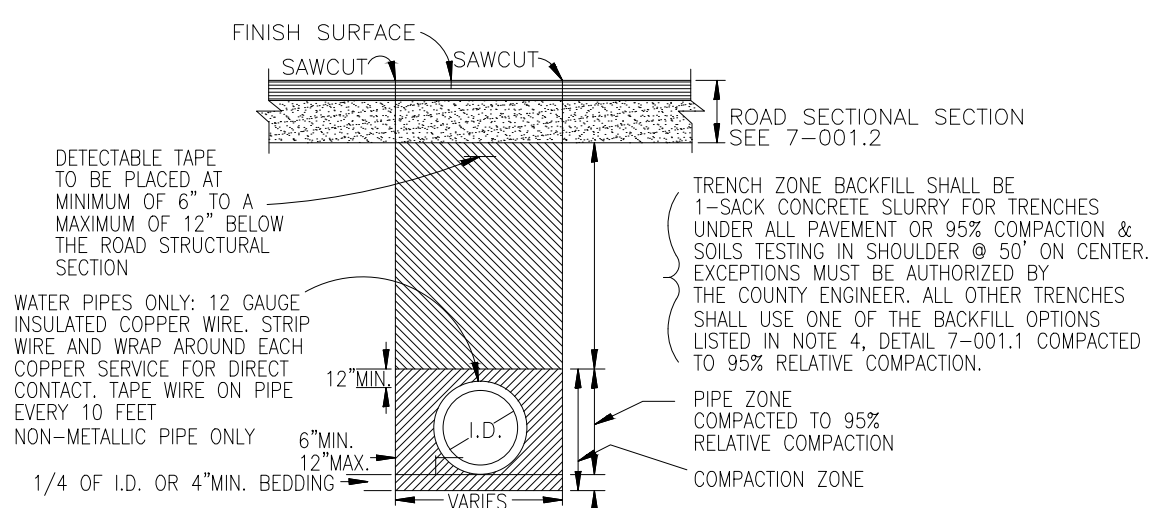
SCALE: 1" = 30'
 DATE: 09/03/2013
 LOCATION: LIAC DRIVE & EAST VALLEY ROAD
 LOG # : -
 SYSTEM # : 133501-1
 VERSION - MONTECITO
 GRID # : 6075-1984
 T.G.M. # : 997, C-1
 PROJECT # : VR2210441CAMONUFL07
 ADDRESS # : 603 LIAC DRIVE
 MONTECITO, CA 93108
 SHEET 01 OF 01
 TYPE OF DRAWING: SUBSTRUCTURES CROWN CASTLE NG FACILITY

CONSTRUCTION NOTES



TOTAL CONSTRUCTION TOTALS:
483.00' OF PLACE FIBER CONDUIT

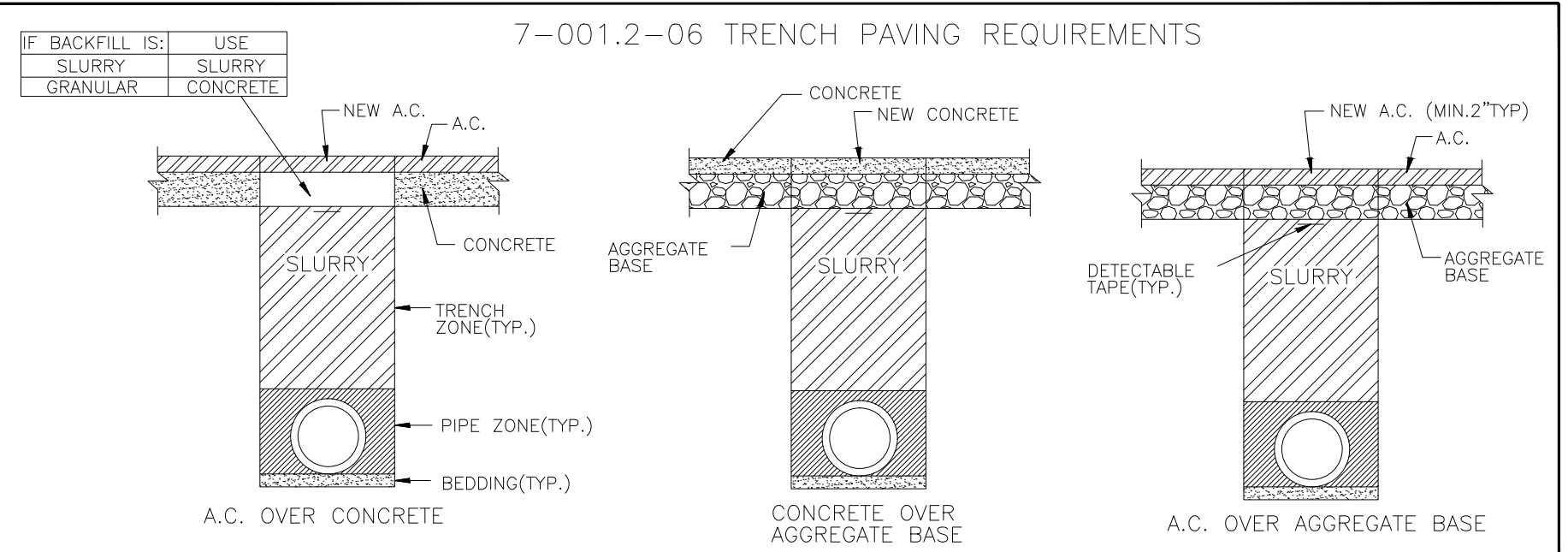
7-001.0-06 TRENCH BEDDING AND BACKFILL



- 7-001.1-06 NOTES
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 - TRENCH WIDTH SHALL BE AS SHOWN, UNLESS OTHERWISE SPECIFIED ON PLANS.
 - PIPE ZONE MATERIAL SHALL BE SAND WITH A SAND EQUIVALENT GREATER THAN 50.
 - BACKFILL SHALL A MAXIMUM OF 8-INCH LIFTS AND MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING:
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 - CRUSHED MISCELLANEOUS BASE.
 - BACKFILL MATERIAL WITH SAND EQUIVALENT GREATER THAN 50.
 - THE ENGINEER SHALL APPROVE ALL BACKFILL MATERIAL PRIOR TO BACKFILLING TRENCH. CONTRACTOR MUST SUBMIT SAND EQUIVALENT TESTS, PER ASTM D2419, FOR ALL BACKFILL AND BEDDING, BOTH NATIVE AND IMPORTED, AND IDENTIFY THE SOURCE OF THE MATERIAL.
 - BEDDING AND BACKFILL SHALL BE COMPACTED MECHANICALLY. COMPACTION BY FLOODING, PONDING, OR JETTING SHALL NOT BE PERMITTED.
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 - A CONTINUOUS LENGTH OF 3-INCH WIDE DETECTABLE TAPE, TERRAZAPE OR APPROVED EQUAL, SHALL BE PLACED IN A DIRECT LINE OVER ALL PIPES AS SHOWN. TAPE COLOR SHALL BE BLUE FOR WATER, GREEN FOR SEWER, YELLOW FOR ELECTRICAL, AND PURPLE FOR RECLAIMED WATER.
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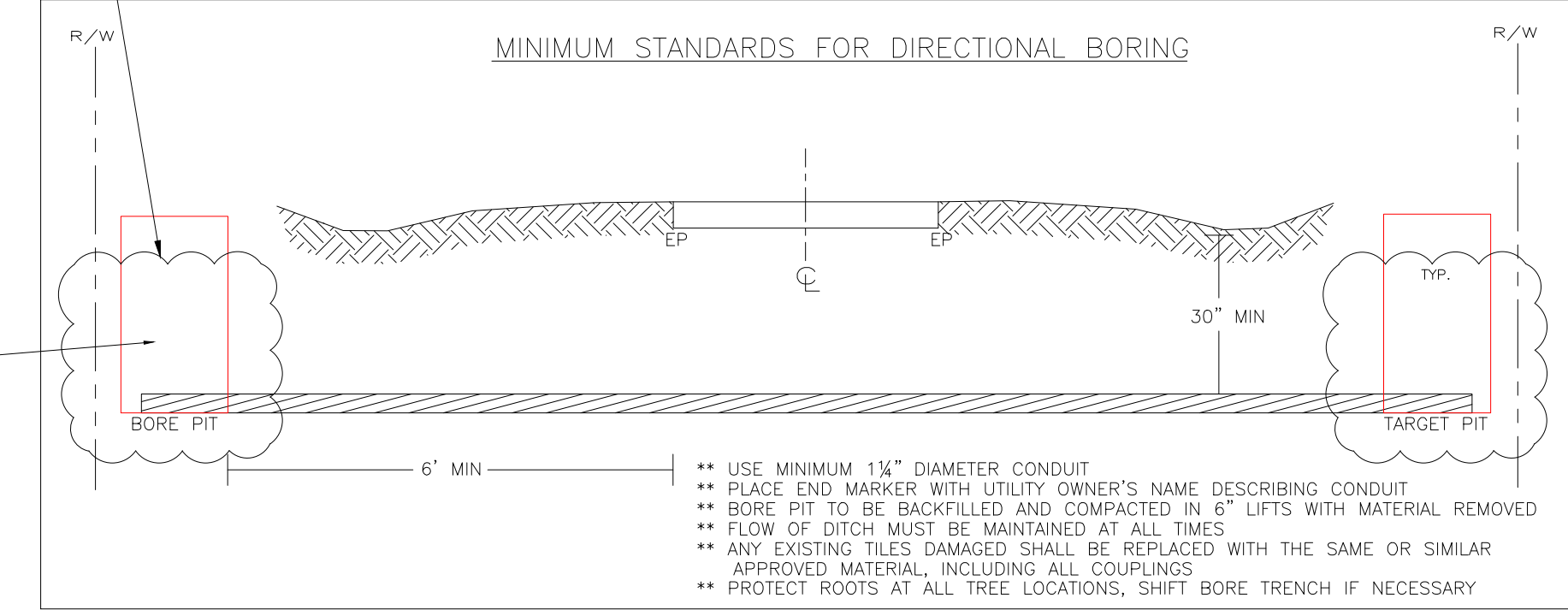
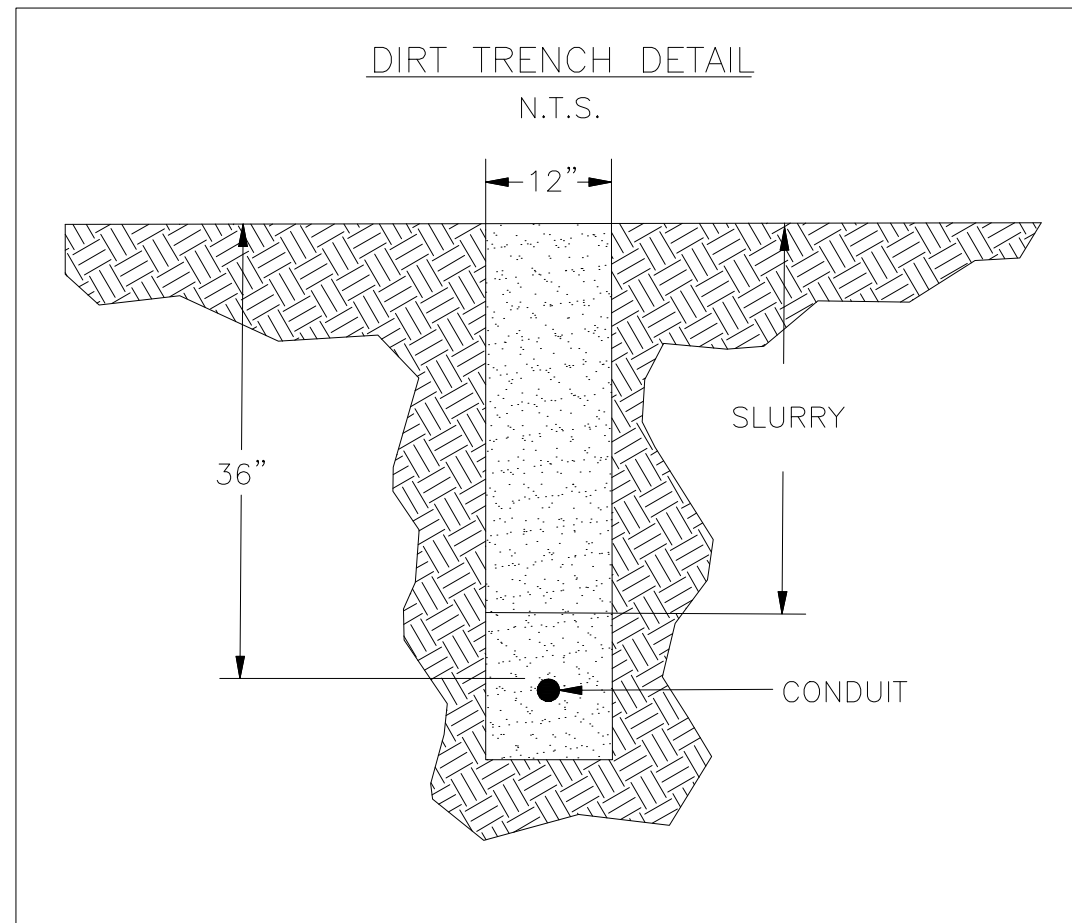
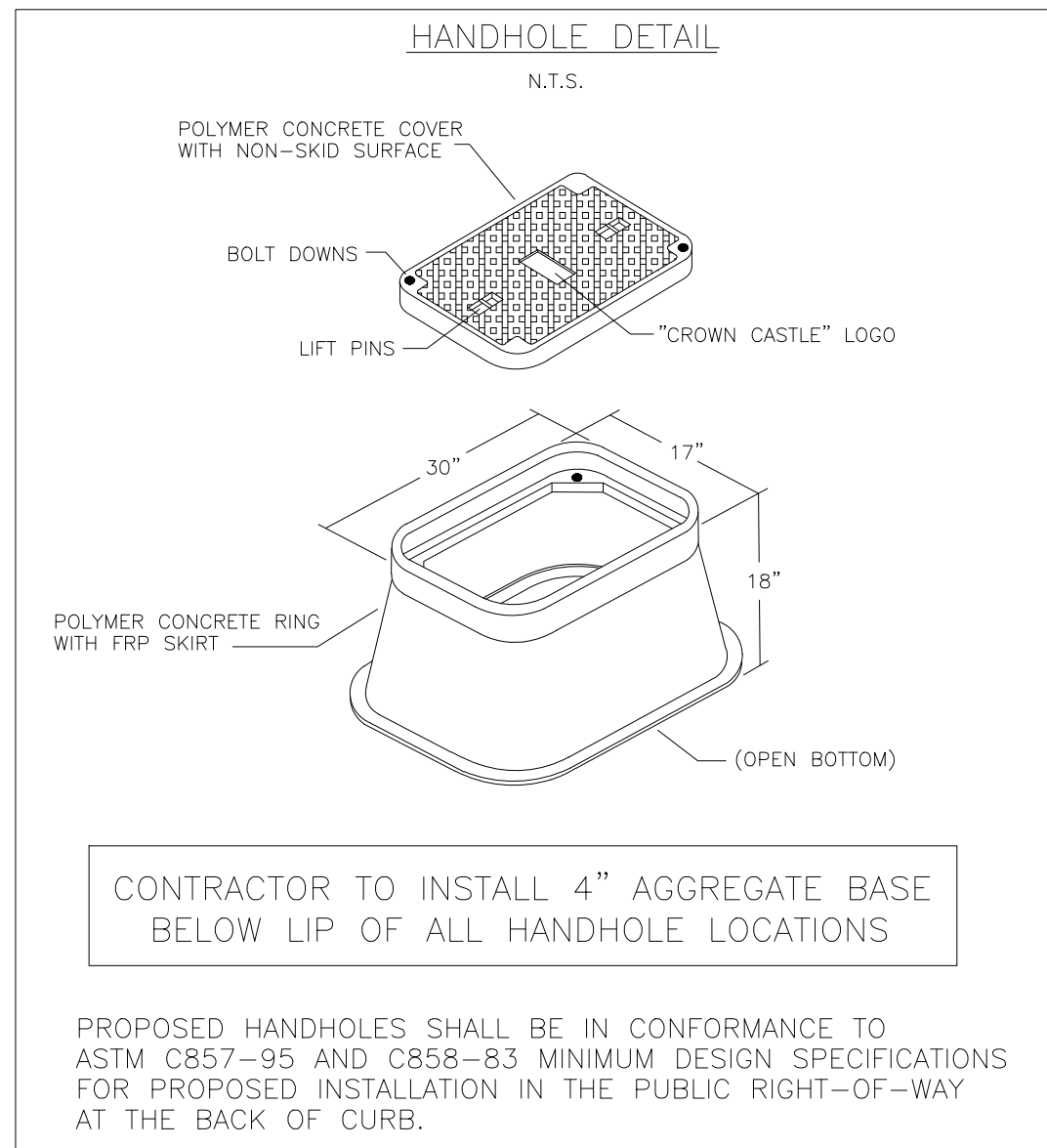
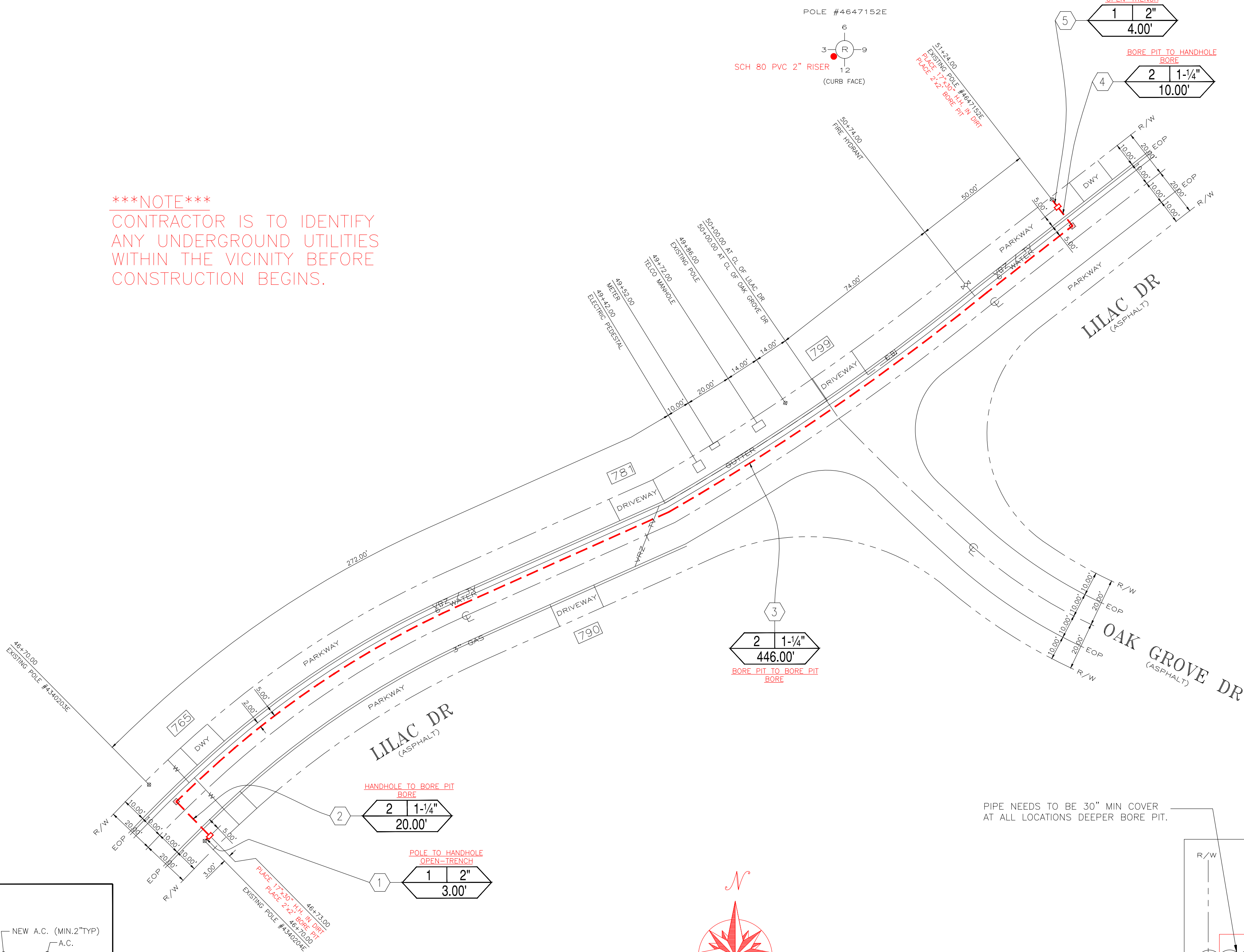
- NOTE: STANDARD DETAIL 7-004.0-06 UTILITY SEPARATION FROM CITY WATER, SEWER, RECLAIMED PIPELINES, AND STORM DRAINS.
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- NOTE: STANDARD DETAIL 1-006.1-06 SIDEWALK SECTIONS.
- NOTE: STANDARD DETAIL 1-007.0-10 ACCESS RAMP NOTES & STANDARD DETAIL 1-007.3-10 DIAGONAL ACCESS RAMP.

* USE COUNTY STD. 2-030.



- ALL WORK SHALL CONFORM TO LATEST EDITION OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY AS MODIFIED BY STANDARD PLANS AND AMENDMENT.
- THE EXISTENCE AND LOCATION OF UTILITY LINES SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER UTILITY LINES MAY EXIST; CONTRACTOR SHALL VERIFY PRIOR TO START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE SAME. HE IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES, VALVES, METERS, TRAFFIC SIGNAL CONDUIT & DETECTOR LOOPS, ETC., WITHIN LIMITS OF WORK WHETHER THEY ARE SHOWN ON THESE PLANS OR NOT.
- AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK NOTIFY UNDERGROUND SERVICE ALERT (1-800-422-4133).
- INDEMNIFICATION CLAUSE- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTIONS OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE PER "WATCH" (WORK AREA TRAFFIC CONTROL HANDBOOK) UNLESS NOTED OTHERWISE.
- ALL PAVEMENTS, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE RECONSTRUCTED PER THE COUNTY OF SANTA BARBARA IMPROVEMENTS STANDARD.
- PRIOR TO THE BEGINNING OF ANY EXCAVATION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK THE CONTRACTOR SHALL FULLY COMPLY WITH THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
- THE CONTRACTOR SHALL HAVE COPIES OF THE PLANS ON THE PROJECT SITE AND BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE OR BELOW GROUND IMPROVEMENTS, AS A RESULT OF HIS OPERATIONS, AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAME TO THE SATISFACTION OF THE CITY.
- ALL BACKHOE EXCAVATION SHALL BE SAW CUT TO FACILITATE REMOVAL BY THE USE OF A POWER DRIVEN SAW. THE DEPTH OF CUT SHALL BE DEEP ENOUGH TO PRODUCE A CLEAN STRAIGHT BREAK.
- TUNNEL ALL CURBS AND GUTTERS AND BORE ALL DRIVEWAYS AND WALKWAYS.
- EXISTING PORTLAND CEMENT CONCRETE SHALL BE SAW CUT TO FACILITATE REMOVAL BY THE USE OF A POWER DRIVEN SAW. THE DEPTH OF CUT SHALL BE DEEP ENOUGH TO PRODUCE A CLEAN STRAIGHT BREAK WITHOUT CRACKING, CHIPPING OR LOOSENING ADJOINING PCC. THE EXISTING PCC SHALL BE CUT BEYOND THE CONFIGURATION OF THE TRENCH OR EXCAVATION AREA AS MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR TO ELIMINATE SHALLOOING PIECES OF CONCRETE, SUCH AS WHERE THE EXISTING PCC IS DAMAGED OR CRACKED. IN GENERAL, THE REPLACEMENT SHALL BE TO THE EXTENT THAT THERE ARE NO FLOATING PIECES OF PCC LEFT REMAINING WHICH ARE SMALLER THAN 3 SQUARE FEET IN AREA. IN ADDITION, THE SAW CUT LIMITS SHALL BE LOCATED NO CLOSER THAN 3 FEET FROM A SCORE LINE OR COLD JOINT. MIN. PCC REMOVAL IS 25 SQUARE FEET. SCORE LINE TO SCORE LINE.
- UNLESS OTHERWISE NOTED: 3" CONDUIT BENDS SHALL HAVE A RADIUS OF 3'. 2" CONDUIT BENDS SHALL HAVE A RADIUS OF 2'. PLACE 2" SACK SLURRY MIX AROUND ALL CONDUIT BENDS HAVING A RADIUS OF LESS THAN 90'.
- ALL CONDUIT SHALL BE DB 120, UNLESS OTHERWISE SPECIFIED. ALL SWEEPS TO POLES SHALL BE SCHEDULE 80.
- REMOVE AND REPLACE CURB AND GUTTER ABOVE SWEEPS TO VAULTS IN THE SIDEWALK, OR BORE UNDER CURB AND GUTTER. SETTING IS NOT ALLOWED.
- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE DEPARTMENTS OF THE CITY AT LEAST TWO DAYS BEFORE START OF WORK. DURING THE COURSE OF WORK, THE CONTRACTOR SHALL CALL FOR INSPECTION OF ALL APPLICABLE WORK.
- ALL SHRUBS, PLANTS, OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK SHALL BE REPLANTED OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
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TOTAL TRENCH FOOTAGE		TRENCH DATA		LEGEND				SCALE: 1" = 30'	IMPORTANT NOTICE	PROJECT NUMBER:	REVISED	CROWN CASTLE																																																																																											
CROWN CASTLE NG ONLY = 483.00'								30' 40' 60'	<p>DIG ALERT</p> <p>Section 4216/4217 of the Government Code requires a Dig Alert identification Number to be issued before a Permit to Excavate will be valid. For your Dig Alert ID, Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600</p>	<p>VR2210441CAMONUFL10</p> <p>COUNTY OF SANTA BARBARA</p> <p>SUB MAP NO. : THOMAS GUIDE : 997, C-1 CITY W.O. : PERMIT NO. : DATE :</p>			<p>SCALE: 1" = 30'</p> <p>DATE: 10/16/2013</p> <p>LOCATION: LILAC DRIVE & OAK GROVE DRIVE</p> <p>LOG # : -</p> <p>SYSTEM # : 133031-1</p> <p>VERSION - MONTECITO</p> <p>T.G.M. # : 997, C-1</p> <p>ADDRESS # : 799 LILAC DRIVE MONTECITO, CA 93108</p> <p>PROJECT # : VR2210441CAMONUFL10</p> <p>ADDRESS # : MONTECITO, CA 93108</p> <p>TYPE OF DRAWING: SUBSTRUCTURES CROWN CASTLE NG FACILITY</p>																																																																																										
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JERROLD T. BUSHBERG Ph.D., DABMP, DABSNM, FAAPM
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Bhavani Yella
Crown Castle
890 Tasman Drive
Milpitas, CA 95035

April 23, 2013

Introduction

At your request, I have reviewed the technical specifications and calculated the maximum potential radiofrequency, (RF), power density from the proposed Crown Castle (CC) dual omni Distributed Antenna System (DAS) sites proposed for the right-of-way in Santa Barbara, CA. A DAS is a network of spatially separated antenna sites called “nodes” connected to a common source that provides wireless service within a geographic area. DAS antennae are typically installed near the top of light standards or on utility poles. The idea is to split the transmitted signal among several antenna sites, separated in space so as to provide coverage over the same area as a single antenna but with reduced total power and improved reliability. Thus a single antenna radiating at high power is replaced by a group (i.e., network) of low-power antennas to cover the same area. Some of the other advantages of DAS include the ability to provide service for multiple wireless carriers without the need to have separate antenna sites for each carrier at each location and the ability to place the antennae on existing vertical structures such as light or utility poles.

These proposed DAS nodes will utilize two omni antennae mounted on the cross arm of utility poles. The antenna specified is Comba model OOA-360V06N0-3. The maximum effective radiated power (ERP) from one of the omni antennae will be up to 35.24 watts at approximately 775 MHz utilizing LTE transmission technology; 21.63 watts at approximately 850 MHz and 44.16 watts at approximately 1,900 MHz utilizing CDMA/EVDO transmission technology. The distance from the antenna center to the ground will be at least 22 feet. The minimum distance between the antennae will be at least 6 feet. A list of the proposed DAS node locations and an example of the site configuration are shown in attachment one. The antenna specification details are depicted in attachment two. This analysis represents the worst case RF exposure of any of the proposed utility pole mounted DAS node locations.

Calculation Methodology

Calculations at the level of the antenna were made in accordance with the cylindrical model recommendations for near-field analysis contained in the Federal Communications Commission, Office of Engineering and Technology Bulletin 65 (OET 65) entitled "Evaluating Compliance with FCC-Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields." RF exposure calculations at ground level were made using equation 10 from the same OET document. Several assumptions were made in order to provide the most conservative or "worst case" projections of power densities. Calculations were made assuming all channels were operating simultaneously at their maximum design effective radiated power. Attenuation (weakening) of the signal that would result from surrounding foliage or buildings was ignored. Buildings or other structures

can reduce the signal strength by a factor of 10 (i.e., 10 dB) or more depending upon the construction material. In addition, for ground level calculations, the ground or other surfaces were considered to be perfect reflectors (which they are not) and the RF energy was assumed to overlap and interact constructively at all locations (which they would not) thereby resulting in the calculation of the maximum potential exposure. In fact, the accumulations of all these very conservative assumptions, will significantly overestimate the actual exposures that would typically be expected from such a facility. However, this method is a prudent approach that errs on the side of safety.

RF Safety Standards

The two most widely recognized standards for protection against RF field exposure are those published by the American National Standards Institute (ANSI) C95.1 and the National Council on Radiation Protection and measurement (NCRP) report #86. The NCRP is a private, congressionally chartered institution with the charge to provide expert analysis of a variety of issues (especially health and safety recommendations) on radiations of all forms. The scientific analyses of the NCRP are held in high esteem in the scientific and regulatory community both nationally and internationally. In fact, the vast majority of the radiological health regulations currently in existence can trace their origin, in some way, to the recommendations of the NCRP.

All RF exposure standards are frequency-specific, in recognition of the differential absorption of RF energy as a function of frequency. The most restrictive exposure levels in the standards are associated with those frequencies that are most readily absorbed in humans. Maximum absorption occurs at approximately 80 MHz in adults. The NCRP maximum allowable continuous occupational exposure at this frequency is 1,000 $\mu\text{W}/\text{cm}^2$. This compares to 2,933 $\mu\text{W}/\text{cm}^2$ at cellular frequencies and 5,000 $\mu\text{W}/\text{cm}^2$ at PCS frequencies that are absorbed much less efficiently than exposures in the VHF TV band.

The traditional NCRP philosophy of providing a higher standard of protection for members of the general population compared to occupationally exposed individuals, prompted a two-tiered safety standard by which levels of allowable exposure were substantially reduced for "uncontrolled " (e.g., public) and continuous exposures. This measure was taken to account for the fact that workers in an industrial environment are typically exposed no more than eight hours a day while members of the general population in proximity to a source of RF radiation may be exposed continuously. This additional protection factor also provides a greater margin of safety for children, the infirmed, aged, or others who might be more sensitive to RF exposure. After several years of evaluating the national and international scientific and biomedical literature, the members of the NCRP scientific committee selected 931 publications in the peer-reviewed scientific literature on which to base their recommendations. The current NCRP recommendations limit continuous public exposure at cellular frequencies (e.g., ~820MHz) to 550 $\mu\text{W}/\text{cm}^2$ and to 1,000 $\mu\text{W}/\text{cm}^2$ at PCS frequencies (~1,900 MHz).

The 1992 ANSI standard was developed by Scientific Coordinating Committee 28 (SCC 28) under the auspices of the Institute of Electrical and Electronic Engineers (IEEE). This standard, entitled "IEEE Standards for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz" (IEEE C95.1-1991), was issued in April 1992 and subsequently adopted by ANSI. A revision of this standard (C95.1-2005) was completed in October 2005 by SCC 39 the IEEE International Committee on Electromagnetic Safety. Their recommendations are similar to the NCRP recommendations for the maximum permissible exposure (MPE) to the public PCS frequencies (950 $\mu\text{W}/\text{cm}^2$ for continuous exposure at 1,900 MHz) and incorporates the convention of providing for a greater margin of safety for public as compared with occupational exposure. Higher whole body exposures are allowed for brief periods provided that no 30 minute time-weighted average exposure exceeds these aforementioned limits.

On August 9, 1996, the Federal Communications Commission (FCC) established a RF exposure standard that is a hybrid of the current ANSI and NCRP standards. The maximum permissible exposure values used to assess environmental exposures are those of the NCRP (i.e., maximum public continuous exposure at cellular and PCS frequencies of $550 \mu\text{W}/\text{cm}^2$ and $1,000 \mu\text{W}/\text{cm}^2$ respectively). The FCC issued these standards in order to address its responsibilities under the National Environmental Policy Act (NEPA) to consider whether its actions will "significantly affect the quality of the human environment." In as far as there was no other standard issued by a federal agency such as the Environmental Protection Agency (EPA), the FCC utilized their rulemaking procedure to consider which standards should be adopted. The FCC received thousands of pages of comments over a three-year review period from a variety of sources including the public, academia, federal health and safety agencies (e.g., EPA & FDA) and the telecommunications industry. The FCC gave special consideration to the recommendations by the federal health agencies because of their special responsibility for protecting the public health and safety. In fact, the MPE values in the FCC standard are those recommended by EPA and FDA. The FCC standard incorporates various elements of the 1992 ANSI and NCRP standards which were chosen because they are widely accepted and technically supportable. There are a variety of other exposure guidelines and standards set by other national and international organizations and governments, most of which are similar to the current ANSI/IEEE or NCRP standard, figure one.

The FCC standards "Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation" (Report and Order FCC 96-326) adopted the ANSI/IEEE definitions for controlled and uncontrolled environments. In order to use the higher exposure levels associated with a controlled environment, RF exposures must be occupationally related (e.g., wireless company RF technicians) and they must be aware of and have sufficient knowledge to control their exposure. All other environmental areas are considered uncontrolled (e.g., public) for which the stricter (i.e., lower) environmental exposure limits apply. All carriers were required to be in compliance with the new FCC RF exposure standards for new telecommunications facilities by October 15, 1997. These standards applied retroactively for existing telecommunications facilities on September 1, 2000.

The task for the physical, biological, and medical scientists that evaluate health implications of the RF data base has been to identify those RF field conditions that can produce harmful biological effects. No panel of experts can guarantee safe levels of exposure because safety is a null concept, and negatives are not susceptible to proof. What a dispassionate scientific assessment can offer is the presumption of safety when RF-field conditions do not give rise to a demonstrable harmful effect.

Summary & Conclusions

All CC utility pole DAS nodes listed in attachment one, operating with the characteristics as specified above and observing an seven foot public exclusion zone directly in front of and at the same elevation as the antenna, will be in full compliance with FCC RF public and occupational safety exposure standards. These transmitters, by design and operation, are low-power devices. Even under maximal exposure conditions in which the antenna is transmitting at its greatest design basis ERP, the maximum exposure at the elevation of the antenna will not result in RF exposures in excess of the FCC public RF safety standard at seven or more feet from the surface of either antenna, (see appendix A-1). The maximum RF exposure at ground level will not be in excess of 1.0% of, (i.e., 100 times lower than), the FCC public safety standard, (see appendix A-2).

A chart of the electromagnetic spectrum and a comparison of RF power densities from various common sources is presented in figures two and three respectively in order to place exposures from DAS wireless systems in perspective. RF exposure in the neighborhood served by this and other DAS sites are very low due

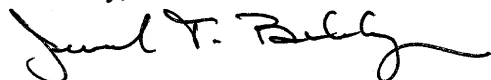
to three main factors. First, as previously stated, DAS is a relatively low-power technology. The maximum power into the antennae will be less than 136.27 watts. In addition, DAS sites utilize directional antennae that focus the RF energy toward the horizon, (i.e., parallel with the ground at the level of the antenna), thus only a very small percentage of the RF energy is emitted directly down toward the ground. This is similar to a lighthouse beacon that sends the majority of its light out toward the horizon with very little reaching the base of the lighthouse or people living nearby. Finally, as shown on the graph in appendix A-2, as one gets farther away from the site, the change in RF exposure intensity becomes more uniform with distance. Eventually there is a very rapid and consistent decrease in exposure with distance. Like all forms of electromagnetic energy, including light, the decrease in exposure at this point is proportional to the square of the increased distance. Thus, if the exposure at this point was 1% of the public exposure standard and one simply moved 10 times further away, (all other conditions being the same), the exposure would be 10^2 or 100 times less than before (i.e., 0.01% of the public exposure standard).

It is also important to realize that the FCC maximum allowable exposures are not set at a threshold between safety and known hazard but rather at 50 times below a level that the majority of the scientific community believes may pose a health risk to human populations. Thus, the previously mentioned maximum ground level exposure from these sites represents a "safety margin" from this threshold of potentially adverse health effects of more than 5,000 times.

Given the low levels of radiofrequency fields that would be generated from these CC antenna installations and given the evidence on RF biological effects in a large data base, there is no scientific basis to conclude that harmful effects will attend the utilization of this proposed wireless telecommunications facility. This conclusion is supported by a large number of scientists that have participated in standard-setting activities in the United States who are overwhelmingly agreed that RF radiation exposure below the FCC exposure limits has no demonstrably harmful effects on humans. An RF caution sign, containing appropriate contact information and indicating the stay back distance beyond which the RF exposures do not exceed the public maximum permissible exposure, should be placed near the antenna (see appendix A-3).

These findings are based on my professional evaluation of the scientific issues related to the health and safety of non-ionizing electromagnetic radiation and my analysis of the technical specification as provided by CC. The opinions expressed herein are based on my professional judgement and are not intended to necessarily represent the views of any other organization or institution. Please contact me if you require any additional information.

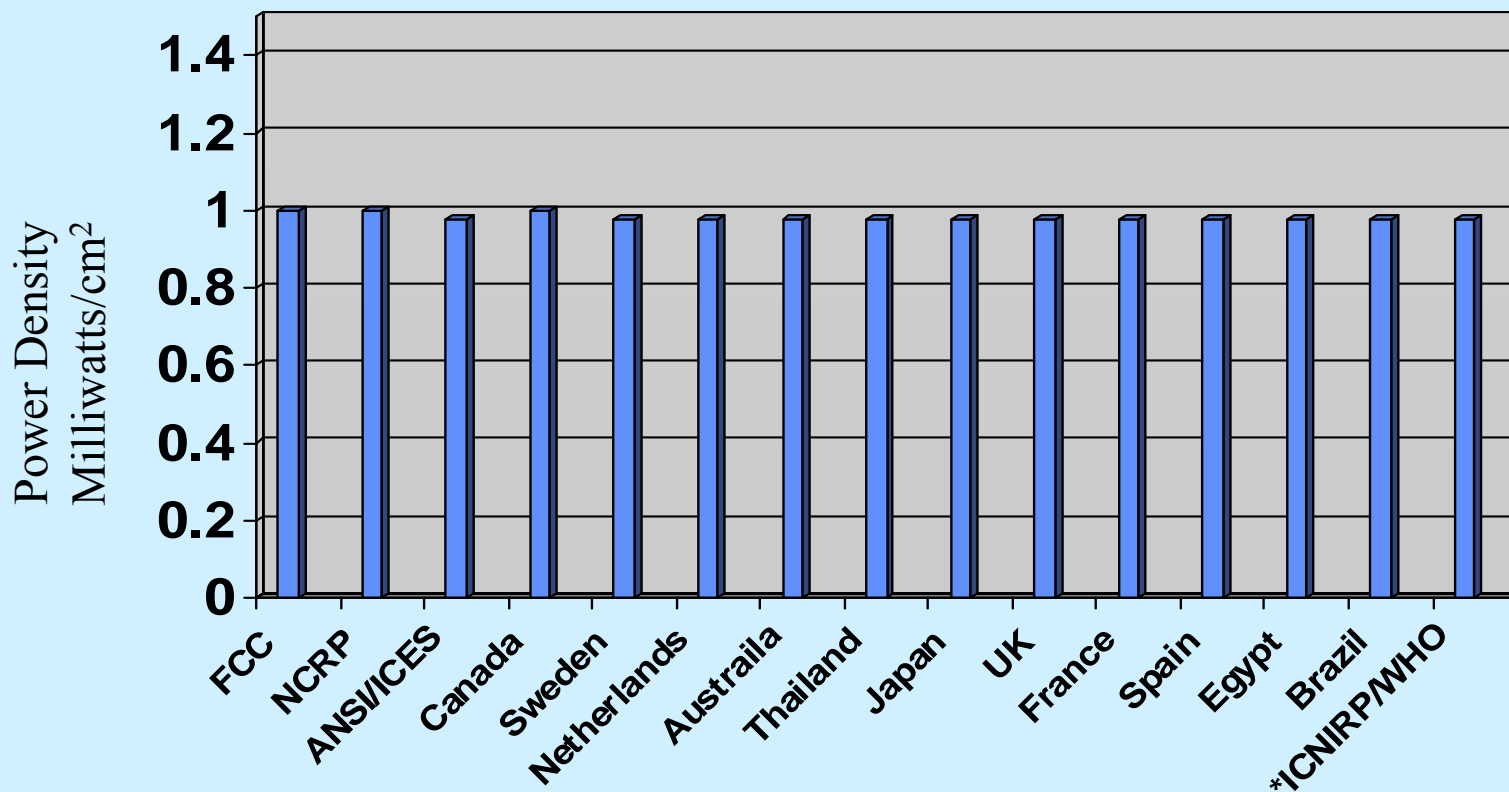
Sincerely,



Jerrold T. Bushberg Ph.D., DABMP, DABSNM
Diplomate, American Board of Medical Physics (DABMP)
Diplomate, American Board of Science in Nuclear Medicine (DABSNM)
Fellow, American Association of Physicists in Medicine (FAAPM)

Enclosures: Figures 1-3; Attachment 1,2; Appendices A1-A3 and Statement of Experience.

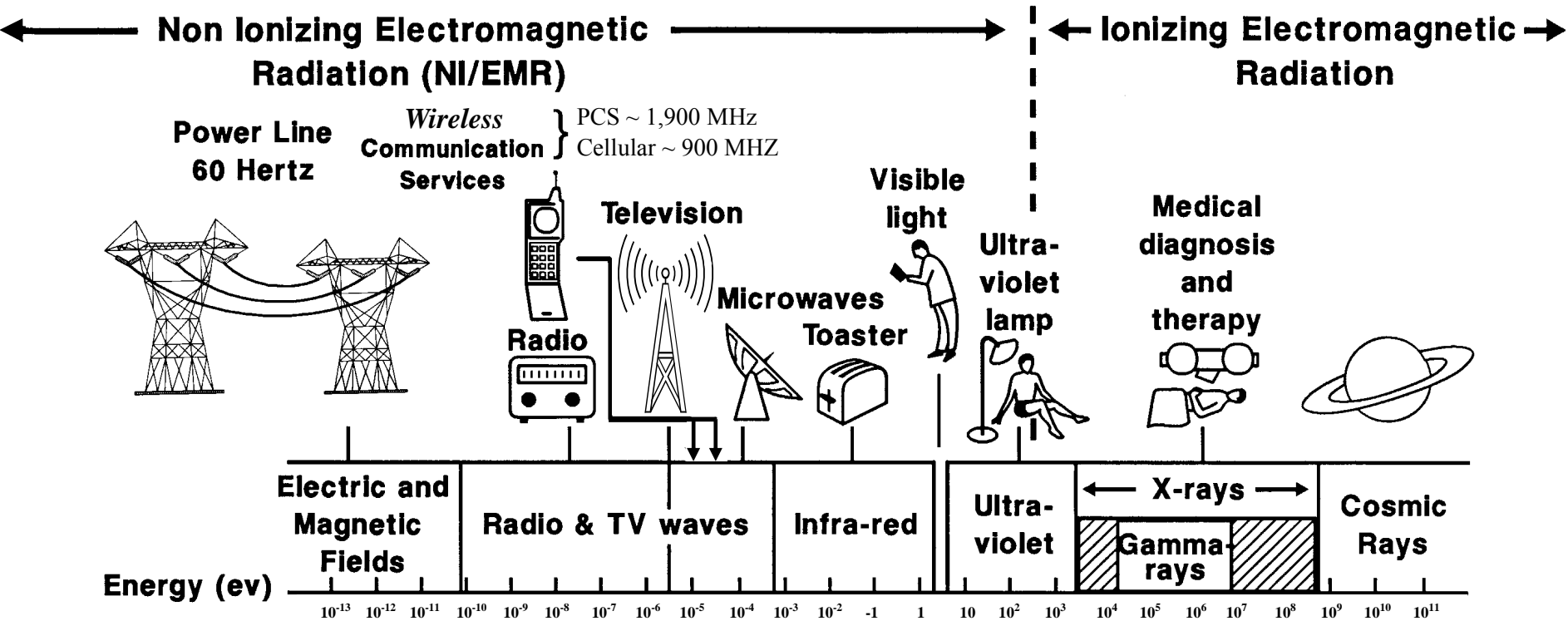
National and International Public RF Exposure Standards (DAS @ 1,950 MHz)



*International Commission on Non-Ionizing Radiation Protection (ICNIRP) Public Safety Exposure Standard. ICNIRP standard recommended by the World Health Organization (WHO). Members of the ICNIRP Scientific Committee were from:

- Australia
- Finland
- France
- Germany
- Hungary
- Italy
- Sweden
- Japan
- United Kingdom
- United States

Figure 1



The Electromagnetic Spectrum

Figure 2

Typical Exposure from Various Radio Frequency / Microwave Sources

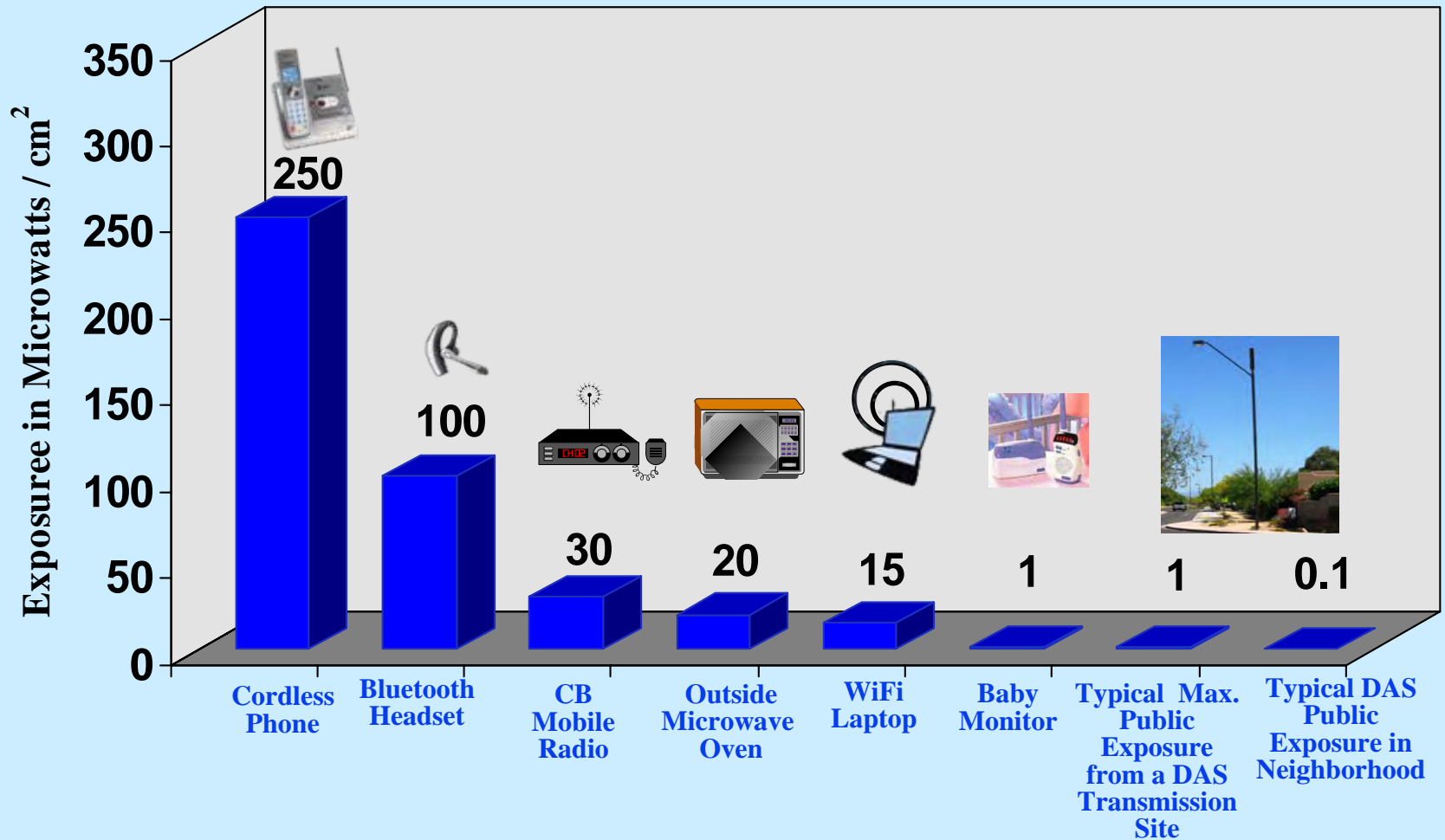


Figure 3

Attachment 1

Proposed Utility Pole Mounted Dual Omni Antenna DAS Nodes

Configuration #3: 2 Comba OOA-360V06N0-3 - Omni Antenna

Proposed Remote Site Item #	Proposed Remote Location(s) or Site ID	Proposed Antenna Rad Center (AGL) (feet)	Street Address/cross street	Antenna Type
2	MON02	27'	842 Lilac, SB, CA, 93108	2 Comba OOA-360V06N0-3
5	MON05	30'	2104 Bella Vista, SB, CA, 93108	2 Comba OOA-360V06N0-3
6	MON06	22'	727 Lilac, SB, CA, 93108	2 Comba OOA-360V06N0-3
7	MON07	24' 10"	2395 Bella Vista, SB, CA, 93108	2 Comba OOA-360V06N0-3
8	MON08	33'	350 Sheffield Dr, SB, CA, 93108	2 Comba OOA-360V06N0-3
9	MON09	38'	1810 N. Jameson Ln, SB, CA, 93108	2 Comba OOA-360V06N0-3
11	MON11M	27'	970 Lilac Dr, SB, CA, 93108	2 Comba OOA-360V06N0-3
12	MON12	31'	2268 E. Valley Dr, SB, CA, 93108	2 Comba OOA-360V06N0-3
13	MON13	30'	2092 Ortega Hill Rd, SB, CA, 93108	2 Comba OOA-360V06N0-3
14	MON14	23' 9"	1934 N. Jameson Ln, SB, CA, 93108	2 Comba OOA-360V06N0-3
15	MON15	36'	1698 N. Jameson Ln, SB, CA, 93108	2 Comba OOA-360V06N0-3
16	MON16	29'	932 Park Ln, SB, CA, 93108	2 Comba OOA-360V06N0-3
17	MON17	24'	628 Orchard Ave, SB, CA, 93108	2 Comba OOA-360V06N0-3
18	MON18	27' 10"	2358 Bella Vista, SB, CA, 93108	2 Comba OOA-360V06N0-3
19	MON19	23' 10"	931 Romero Canyon, SB, CA, 93108	2 Comba OOA-360V06N0-3
20	MON20	27'	850 Romero Canyon, SB, CA, 93108	2 Comba OOA-360V06N0-3
21	MON21	24' 6"	2243 Camino Del Rosario, SB, CA, 93108	2 Comba OOA-360V06N0-3
22	MON22	25'	2117 Veloz Dr, SB, CA, 93108	2 Comba OOA-360V06N0-3
23	MON23	25'	1070 Romero Canyon, SB, CA, 93108	2 Comba OOA-360V06N0-3
24	MON24	30' 6"	290 Sheffield Dr, SB, CA, 93108	2 Comba OOA-360V06N0-3
25	MON25	25'	1891 San Leandro Ln, SB, CA, 93108	2 Comba OOA-360V06N0-3
26	MON26	31' 6"	1476 N. Jameson Ln, SB, CA, 93108	2 Comba OOA-360V06N0-3
27	MON27	32'	1416 N. Jameson Ln, SB, CA, 93108	2 Comba OOA-360V06N0-3
28	MON28	43'	1566 N. Jameson Ln, SB, CA, 93108	2 Comba OOA-360V06N0-3
29	MON29	27' 10"	2047 Alisos Dr, SB, CA, 93108	2 Comba OOA-360V06N0-3
31	MON31	27'	1933 Tollis Ave, SB, CA, 93108	2 Comba OOA-360V06N0-3
32	MON32	26'6"	1634 SanLeandro Ln, SB, CA 93108	Comba OOA-360V06N0-4

GENERAL NOTES

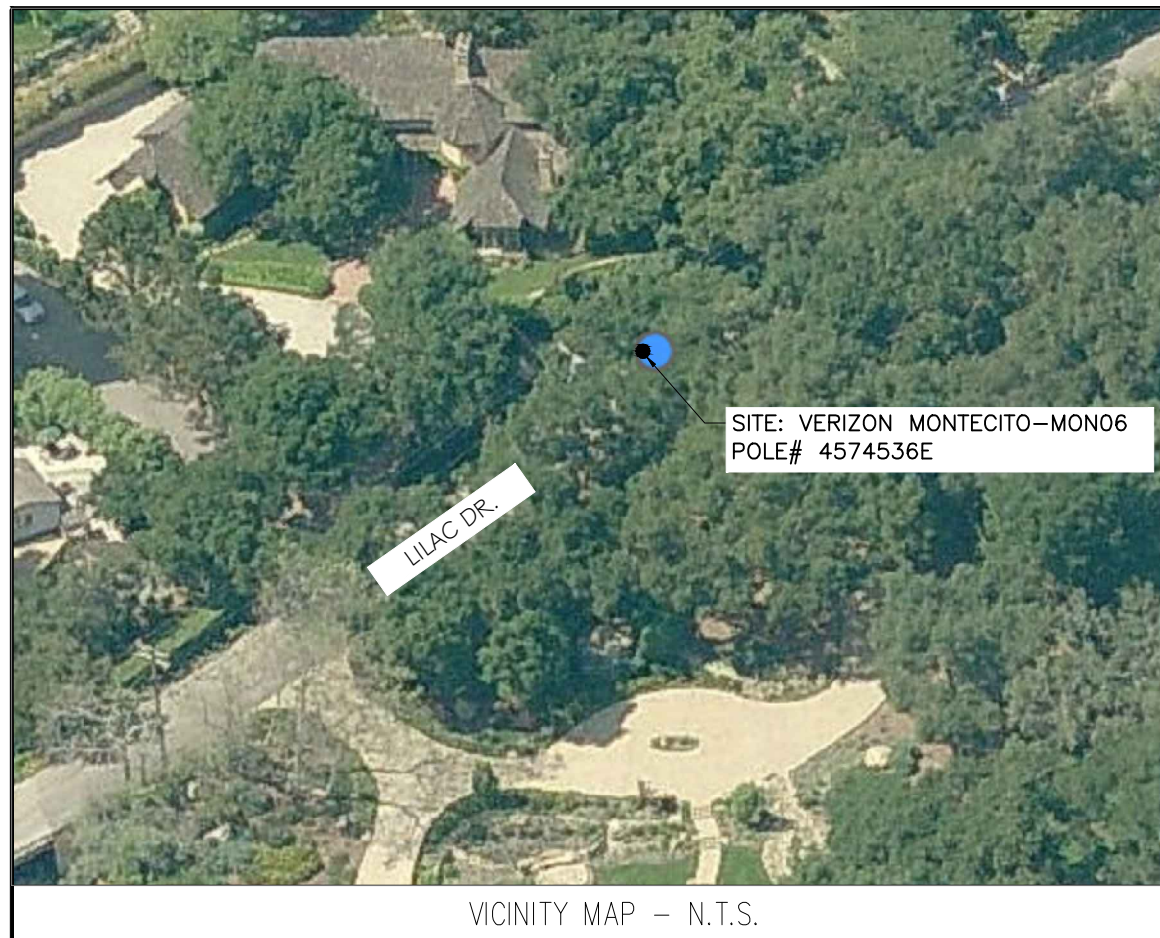
- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE POTHOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1' MINIMUM VERTICAL CLEARANCE.
- CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
- THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
- PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE: IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
- PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
- MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
- THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
- THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
 - CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
 - LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
 - GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
 - CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
 - THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
 - THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
 - THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
 - THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE POTHOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1' MINIMUM VERTICAL CLEARANCE.
 - AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CROWN CASTLE NG WEST, INC
VERIZON MONTECITO-MON06
R.O.W. EAST SIDE OF LILAC DR.
(ADJACENT TO 765 LILAC DR)
SANTA BARBARA, CA 93108



— T — GROUND BUS BAR	☀ LIGHT POLE	△ ELEVATION REF.	— E — ELECT. CONDUIT
● MECH. GRND. CONN.	○ FOUNDATION	△ SECTION REF.	— A — COAXIAL CABLE
■ CADWELD	◆ SPOT ELEV.	— — — PROP./LEASE LINE	□ MYERS PEDESTAL
E ELECTRIC BOX	△ SET POINT	— ● — MATCH LINE	□ VAULT STANDARD 2'X3'
T TELEPHONE BOX	△ REVISION	● WORK POINT	● STEEL POLE
⊗ EXISTING SERVICE POLE	⊗ DETAIL REF.	— T — TELE. CONDUIT	
⊗ SIDEWALK FLAG		— — — CENTERLINE	
⊗ EX. MANHOLE			

SYMBOLS, LINETYPES AND HATCH PATTERNS

CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. 92) OMNI ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT VAULT AT BASE OF EXISTING POLE
3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 6
SITE PLAN	A-1 - SHEET 2 OF 6
EXISTING ELEVATIONS	A-2 - SHEET 3 OF 6
DETAILS	D-1 - SHEET 4 OF 6
DETAILS	D-2 - SHEET 5 OF 6
DETAILS	D-3 - SHEET 6 OF 6

EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- ALL REQUIREMENTS OF THE LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- FOR INLETS LOCATED AT BUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
- THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. EAST SIDE OF LILAC DR. (ADJACENT TO 765 LILAC DR) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC 2125 WRIGHT AVE, SUITE #C9 LA VERNE, CA 91750 CONTACT: DANIEL NUESKE PHONE: (714) 472-1577

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC 26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630 CONTACT: FRANK CARTER (949) 310-8233 PHONE (949) 753-8833 FAX

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/05/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON06
VERIZON MONTECITO-MON06

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx R.O.W. EAST SIDE OF LILAC DR. (ADJACENT TO 765 LILAC DR) SANTA BARBARA, CA 93108
LAT: 34.44285
LONG: -119.60799

SHEET TITLE:

TITLE SHEET

DRAWING INFO:

DRAWN BY: FC

SHEET NUMBER:

T-1

REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer

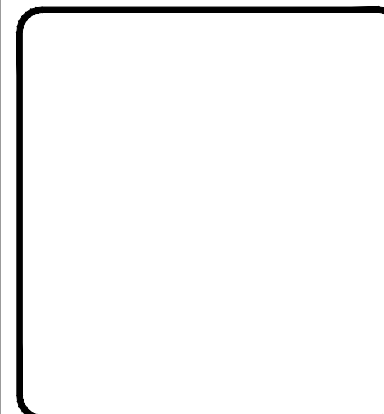


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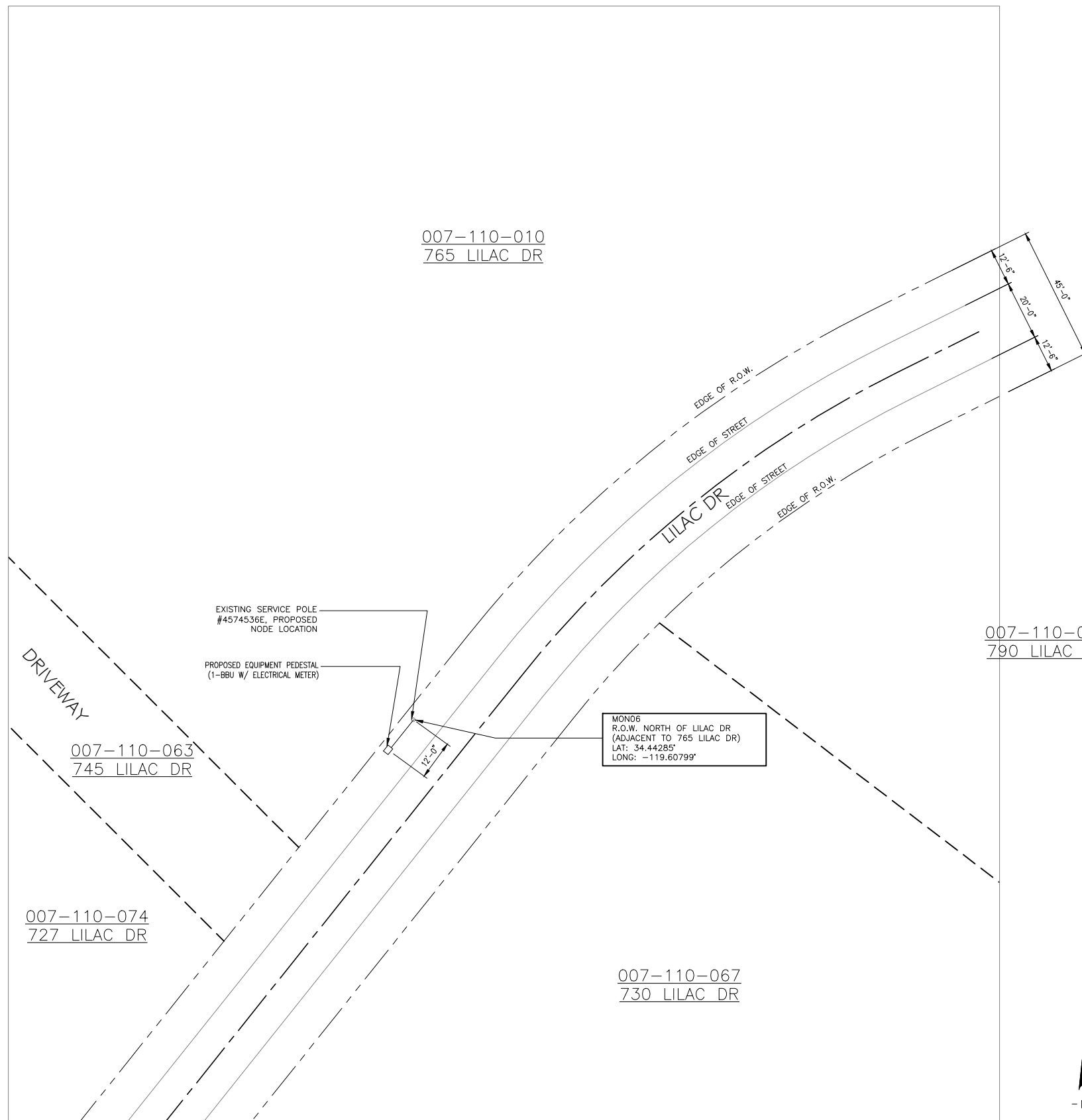
SITE PLAN AND ELEVATION

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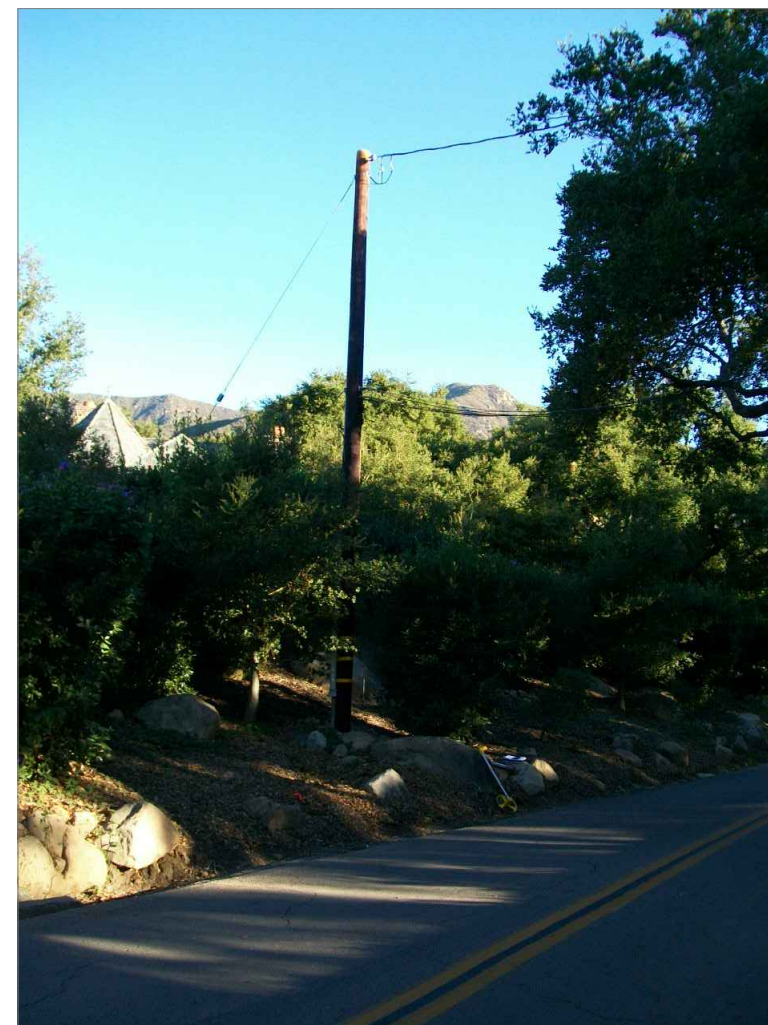
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A-1



SITE PLAN

SCALE: 1"=20'-0" 0 10' 20' 1

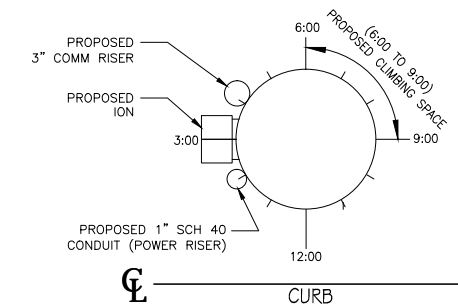


EXISTING PHOTO

SCALE: N.T.S. 3

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.

- 1-3" CROWN CASTLE RISER @ 4:00
- 1-1" POWER RISER @ 2:00




RISER PROFILE

SCALE: N.T.S. 2

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Civil Engineer



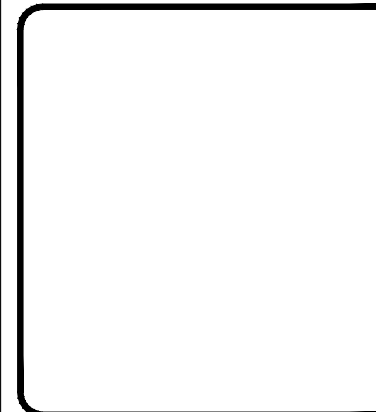
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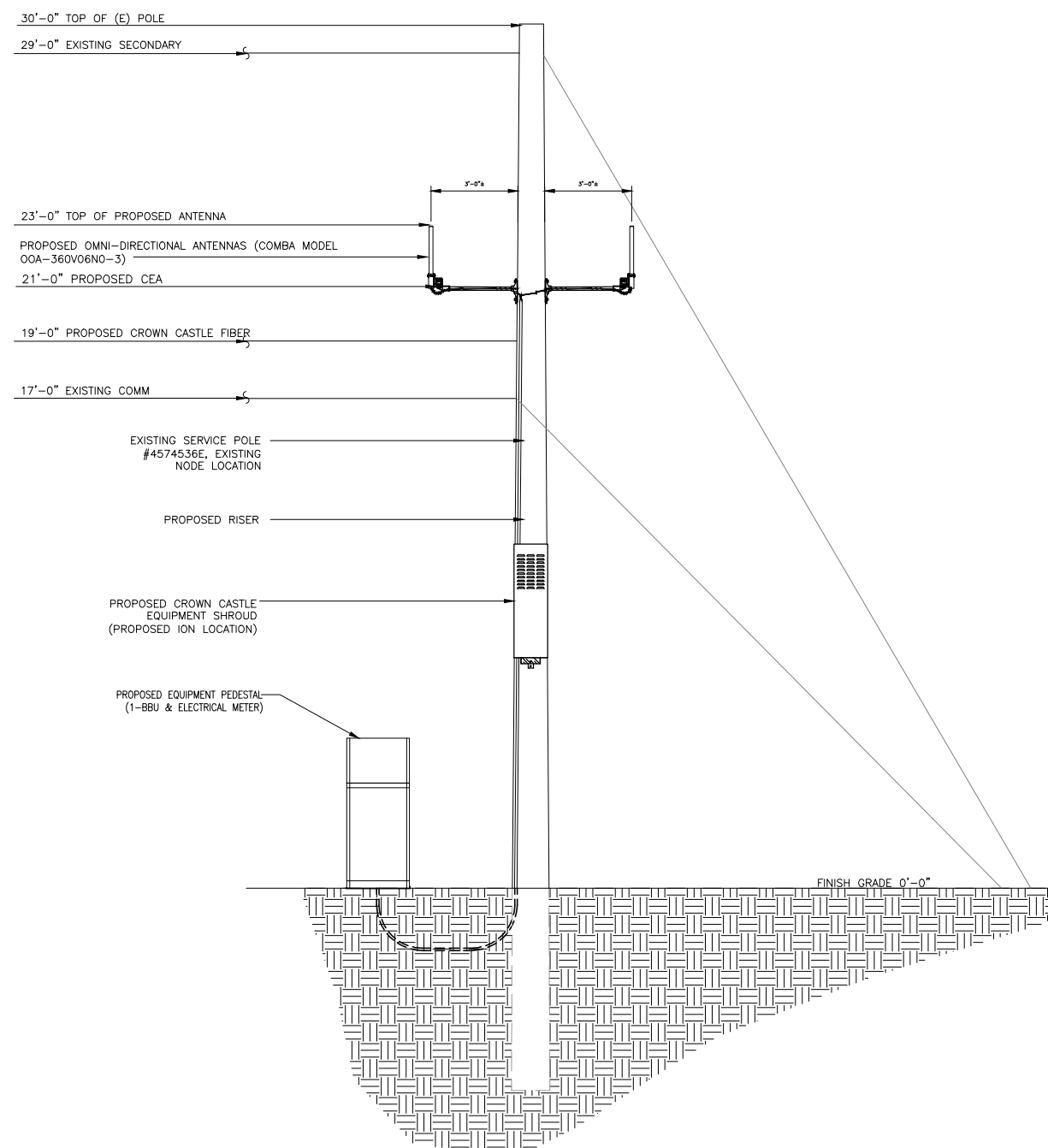
ELEVATION

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DRAWN BY:
FC


SHEET NUMBER:

A-2

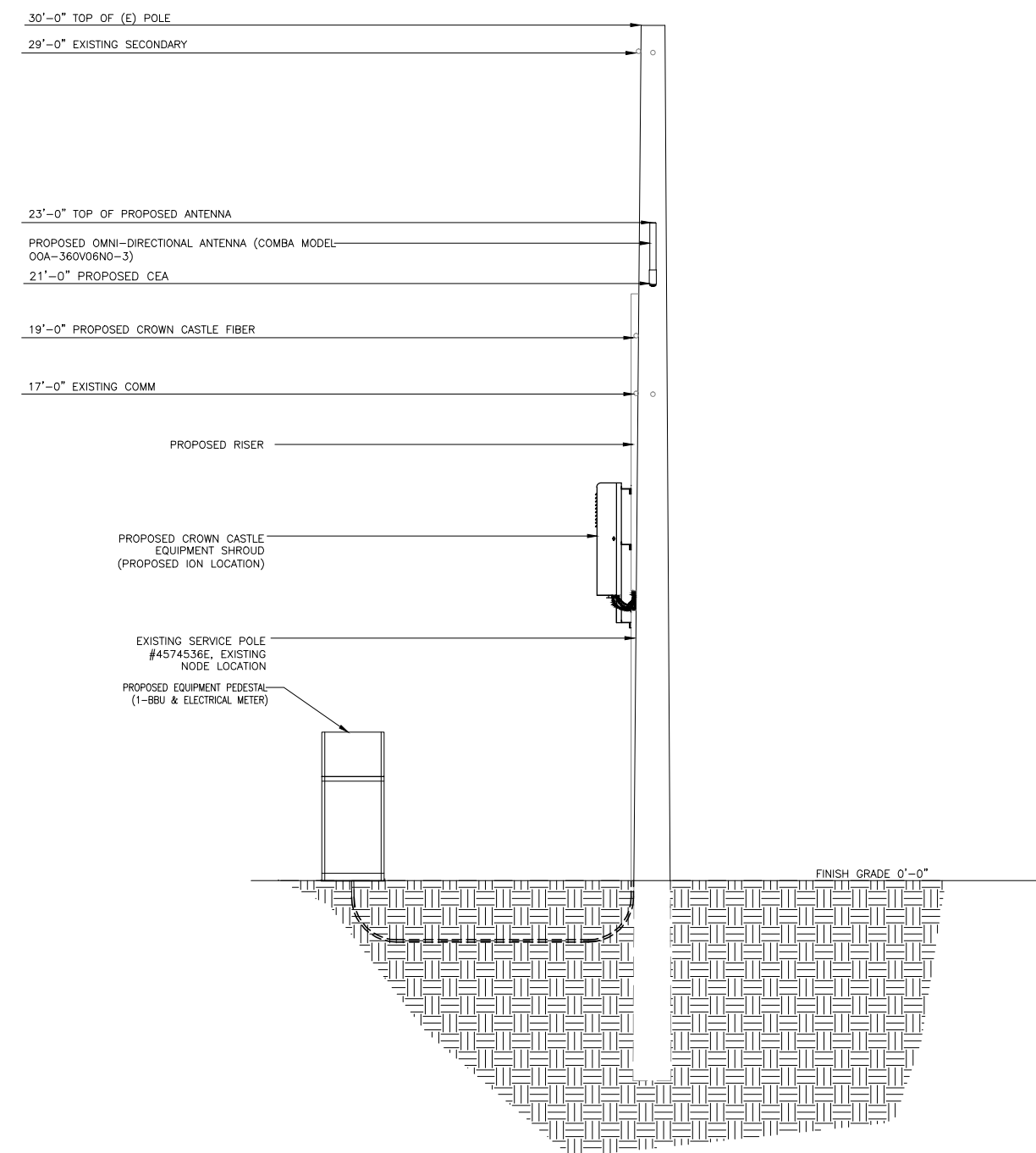


PROPOSED ELEVATION LOOKING SOUTHWEST

SCALE:
3/8"=1'-0"

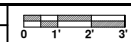


1



PROPOSED ELEVATION LOOKING NORTHWEST

SCALE:
3/8"=1'-0"



2

Outdoor Omni-directional Antenna



OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

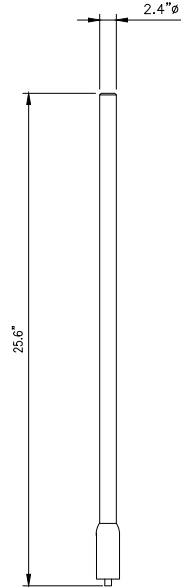
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions, HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S.

1

NOT USED

N.T.S.

3

Electrical

Power Supply		115 or 230
Mains power, Vac		
Power consumption, Watts		1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz		Uplink: 698 to 716/776 to 787	Downlink: 728 to 757
----------------------	--	-------------------------------	----------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz		Uplink: 824 to 849	Downlink: 869 to 894
----------------------	--	--------------------	----------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz		Uplink: 1850 to 1915	Downlink: 1930 to 1995
----------------------	--	----------------------	------------------------

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB		ICP3 optimized: +10 max.	Noise figure optimized: +6 max.	4.5 typical
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Mechanical****

Height, width, depth, mm (in)		817 x 245 x 218 (32.2 x 9.6 x 8.6)
Weight, kg (lb)		40 (88.2)

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

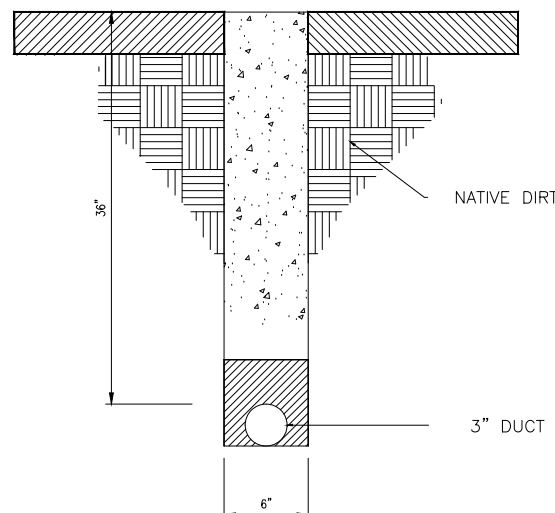
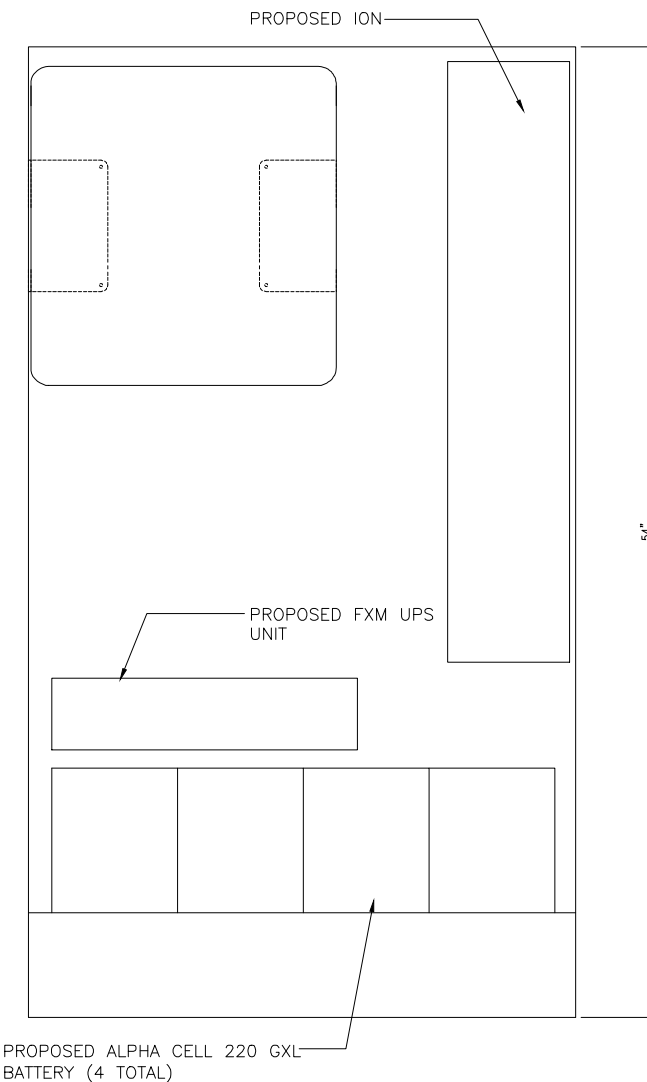
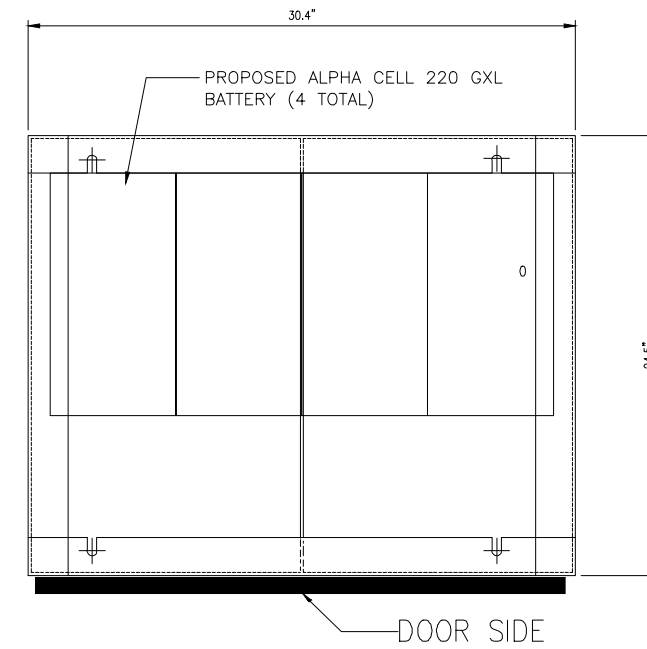
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EQUIPMENT PEDESTAL

N.T.S.

5



* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

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Civil Engineer

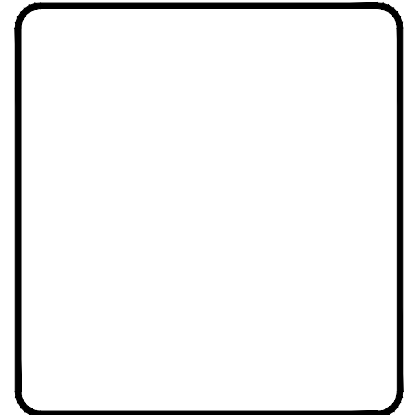


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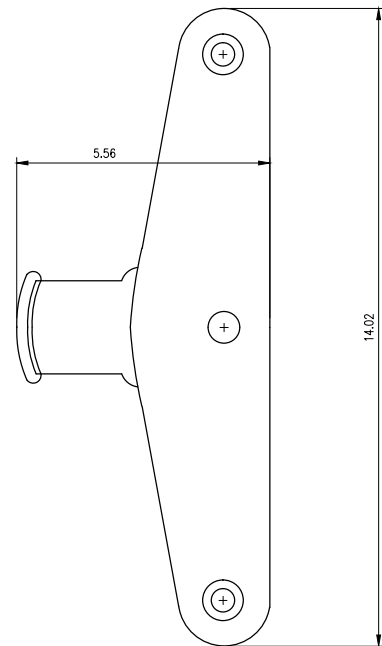
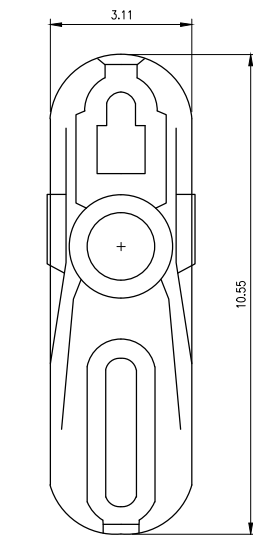
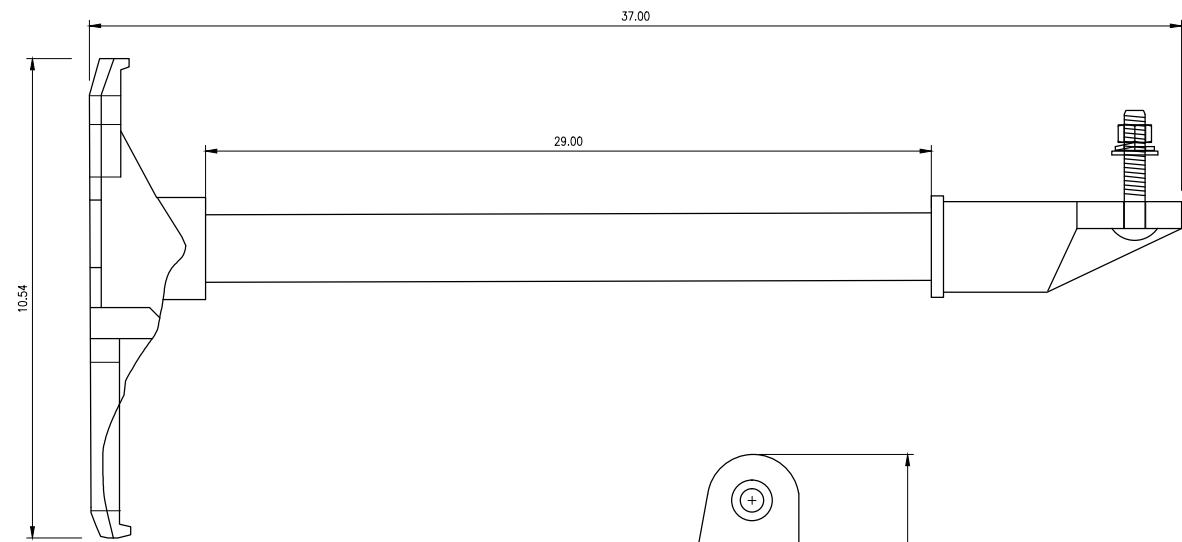
DETAILS

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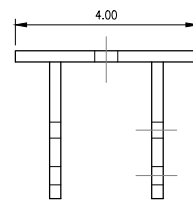
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D-1

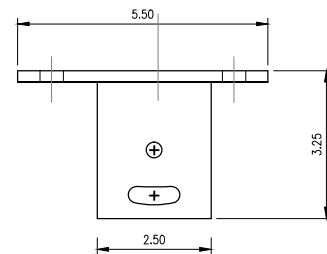


COMM SPACE BRACKET

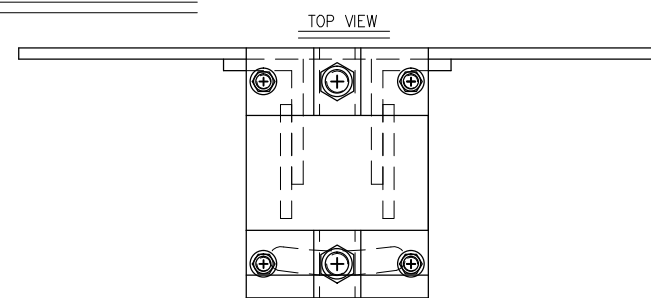
FRONT VIEW



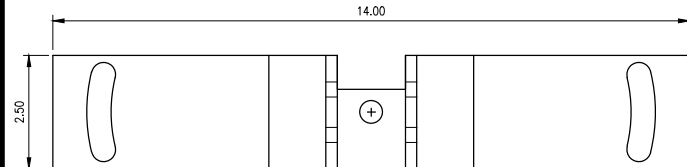
TOP VIEW



TOP VIEW

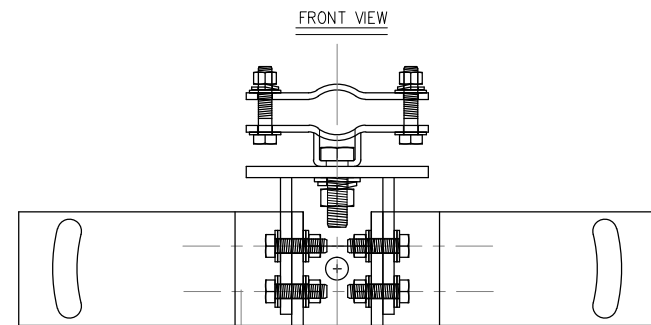
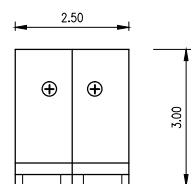


TOP VIEW



FRONT VIEW

SIDE VIEW



FRONT VIEW

Alpha Cell
General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes) ² :	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	Extreme	Extreme
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

Specifications⁴

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes) ³ :	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	105Ah	100Ah	85
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm) ⁵ :	13.42/340.9	13.42/340.9	12.53/317.9
Depth (in/mm) ⁵ :	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Float Charging Voltage (Vd):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

Notes:
¹ Warranty varies by country and region. Warranty void only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
² Runtime calculated using a 25A DC constant current load.
³ Dimensions at top of battery.
⁴ See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model/Voltage	4A	5A	6A	8A	10A	15A	20A	25A	30A	35A	40A	45A	50A
220V/20Vdc @ Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220
3 batteries:	508	453	396	508	453	396	508	453	396	508	453	396	508
4 batteries:	707	625	544	707	625	544	707	625	544	707	625	544	707
6 batteries:	1061	937	813	1061	937	813	1061	937	813	1061	937	813	1061
8 batteries:	1417	1256	1095	1417	1256	1095	1417	1256	1095	1417	1256	1095	1417
9 batteries:	1666	1488	1322	1666	1488	1322	1666	1488	1322	1666	1488	1322	1666
12V/20Vdc @ Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220
3 batteries:	494	437	380	494	437	380	494	437	380	494	437	380	494
4 batteries:	688	609	530	688	609	530	688	609	530	688	609	530	688
6 batteries:	1032	916	799	1032	916	799	1032	916	799	1032	916	799	1032
8 batteries:	1376	1224	1072	1376	1224	1072	1376	1224	1072	1376	1224	1072	1376
9 batteries:	1566	1389	1212	1566	1389	1212	1566	1389	1212	1566	1389	1212	1566
4A/6A/8A/10A/15A/20A/25A/30A/35A/40A/45A/50A @ Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220
3 batteries:	798	712	626	798	712	626	798	712	626	798	712	626	798
4 batteries:	1097	976	855	1097	976	855	1097	976	855	1097	976	855	1097
6 batteries:	1646	1461	1276	1646	1461	1276	1646	1461	1276	1646	1461	1276	1646
8 batteries:	2200	1956	1712	2200	1956	1712	2200	1956	1712	2200	1956	1712	2200
9 batteries:	2502	2217	1932	2502	2217	1932	2502	2217	1932	2502	2217	1932	2502
12V/20Vdc @ Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220
3 batteries:	282	270	258	282	270	258	282	270	258	282	270	258	282
4 batteries:	376	361	346	376	361	346	376	361	346	376	361	346	376
6 batteries:	564	537	510	564	537	510	564	537	510	564	537	510	564
8 batteries:	752	705	658	752	705	658	752	705	658	752	705	658	752
9 batteries:	843	783	723	843	783	723	843	783	723	843	783	723	843

* Above calculation is based on a 20°C ambient temperature and a 30% battery float power factor.

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REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/05/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer

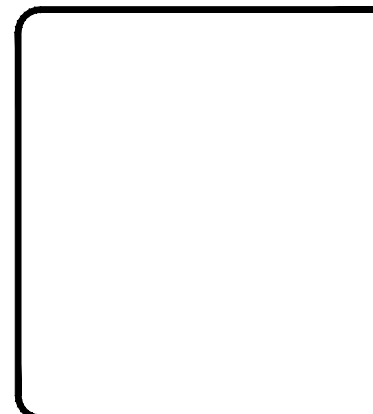


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STAMP:



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VERIZON MONTECITO-MON06

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(ADJACENT TO 765 LILAC DR)
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LONG: -119.60799

SHEET TITLE:

DETAILS

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DRAWN BY:
FC

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D-2

