TESORO PUMP STATION SMWD SITE NAME:

> CM371 RSMWD PUMP STATION SITE NAME:

SITE ADDRESS: 29634 OSO PKWY

VICINITY MAP

RANCHO SANTA MAGARITA, CA 92688

LA02371A / PHX SITE REF.#: US-CA-1068 T-MOBILE SITE NUMBER:

WAGON WHEEL

NORTH

PROJECT: L600/L1900/ANCHOR

T -	-Mobile -

1x25KW DIESEL 1x25KW DIESEL 1x25KW DIESEL * AMENDMENT REQUIRED FOR ADDITIONAL EQUIPMENT AND SPACE

EXISTING ON SITE

N/A

53'-0" x 18" DIA

+654 SQ FT

INDEX OF DRAWINGS

DESCRIPTION

PROPOSED NEW (TOTALS)

N/A

58'-6" x 42" DIA

+654 SO FT

3*

EQUIPMENT TABLE

APPROVED BY LEASE

N/A

53'-0" x 18" DIA

+654 SO FT

N/A

SHEET

A-4

RF-1

RF-2

G-1

CANISTER

T-1

N-1

N-2

S-1

S-2

S-3

S-4

S-5

T-1 TITLE SHEET
T-2 GENERAL NOT

SITE PLAN

ENLARGED PLAN

SITE PROFILE

EQUIPMENT PLAN

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

ANTENNA CONFIGURATION

EXPANSION DESIGN (BY OTHERS)

NOTES & SPECIFICATIONS

NOTES & SPECIFICATIONS

PLUMBING DIAGRAM

GROUNDING DETAILS

TITLE SHEET

ELEVATIONS

DETAILS

DETAILS

DETAILS

DETAILS

OF PANEL ANTENNAS SIZE OF PANEL ANTENNAS

SLIM-LINE MONOPOLE

GPS ANTENNA FOLIPMENT AREA

RRU's

GENERATOR

SANTA MARGARITA WATER DISTRICT

DANIEL PETERSON -DATE OGISTICS & REGULATORY MANAGER

SMWD SITE NAME: WOODS RESERVOIR

PROJECT INFORMATION

SITE NAME: CM371 RSMWD PLIMP STATION 29634 OSO PARKWAY, RANCHO SANTA MARGARITA, CA 92688 SITE ADDRESS:

COUNTY: ORANGE COUNTY

LATITUDE: 33° 35' 07.7" N (33.585477°) 117 36' 50.9" W (-117.614135') LONGITUDE GROUND ELEVATION: 725.19' AMSL

STRUCTURE HEIGHT: 52'-3" (TOP OF MONOPOLE) COUNTY OF ORANGE JURISDICTION 125-099-15

PARCEL: ZONING: A-1 GENERAL AGRICULTURAL DISTRICT WIRELESS TELECOMMUNICATIONS FACILITY OCCUPANCY:

CONSTRUCTION INFORMATION:

AREA OF CONSTRUCTION: CONSTRUCTION TYPE:

UNMANNED TELECOMMUNICATIONS FACILITY PROPOSED USE: FACILITY IS UNMANNED AND NOT FOR HUMAN HANDICAP REQUIREMENTS: HABITATION, HANDICAPPED ACCESS NOT REQUIRED

EXISTING/NO CHANGE

SANTA MRGARITA WATER DISTRICT TOWER OWNER: 26111 ANTONIO PARKWAY MISSION VIEJO, CA 92691

SANTA MARGARITA WATER DISTRICT 26111 ANTONIO PARKWAY PROPERTY OWNER:

DISTRICT CONTACTS: DANIEL PETERSON - LOGISTICS &

REGULATORY MANAGER

PHONE: 949–459–6594
BILL LYNCH – DIST. WIRELESS CONSULTANT
PHONE: 619–228–5155

RANCHO SANTA MARGARITA. CA 92688

T-MOBILE WEST CORP. 2008 MCGAW AVENUE IRVINE, CALIFORNIA 92614 CONTACTS

PHONE: (714) 850-2471 RAY JORDN PHONE: (949) 567-6808

PROJECT TEAM

SITE ACQUISITION PROJECT MANAGER:

APPLICANT:

ANTONETTE OCAMPO 10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130 PHONE: (858) 964-7413

SITE ACQUISITION AGENT:

10590 WEST OCEAN AIR DRIVE. SUITE 300 SAN DIEGO, CA 92130

PHONE: (619) 947-0762

ZONING/PERMITTING AGENT:

JUSTIN CAUSEY

SAN DIEGO CA 92130

10590 WEST OCEAN AIR DRIVE, SUITE 300 PHONE: (858) 291-1869

ARCHITECT & ENGINEERING MORRISON HERSHFIELD LESLIE BRADLEY

600 STEWART STREET SUITE 200 SEATTLE, WA 98101 PHONE: (770) 379-8500

ENGINEER: TED HAILE

MORRISON HERSHFIELD CORP. PHONE: (503) 595-9128 thaile@morrisonhershfield.com

ARCHITECT:

MORRISON HERSHEIFI D CORP PHONE: (954) 577-4655

RF ENGINEER:

T-MOBILE USA GILBERTO SANTIAGO 10590 WEST OCEAN AIR DRIVE, SUITE 300 SAN DIEGO, CA 92130

SCOPE OF WORK

T-MOBILE PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY WITH THE FOLLOWING:

NOT TO SCALE

- AT ANTENNA LEVEL

 REMOVE (3) PANEL ANTENNAS

 REMOVE (6) TMAS
- REMOVE ALL DIPLEXERS
 INSTALL (6) PANEL ANTENNAS
- INSTALL (3) RRUS

AT GRADE LEVEL

REMOVE INSTALL RBS 3106 CABINET (1) BB6648 INSIDE PROPOSED RBS 6160 CABINET

- INSTALL BB6648 INSIDE EXISTING RBS 6102 CABINET
- RRU'S ON NEW H-FRAME INSTALL
- 6160 ENCLOSURE B160 SITE SUPPORT CABINET PSU 4813 VOLTAGE BOOSTER
- INSTALL INSTALL
- ESTIMATED VALUE: \$40,000

DESIGN BASED ON:

RFDS ANCHOR VERSION 8, DATED 05/16/2022 01:3:59 PM

DIRECTIONS

DIRECTIONS TO SITE (FROM T-MOBILE OFFICE, IRVINE, CA)

- HEAD NORTHEAST TOWARD MCGAW AVE.
- TURN RIGHT TOWARD MCGAW AVE.
 TURN RIGHT ONTO MCGAW AVE.
 TURN RIGHT ONTO JAMBOREE RD.
- SLIGHT RIGHT TO MERGE ONTO 1-405 S.
- MERGE WITH 1-405 S.

 MERGE WITH 1-5 S.

 USE THE RIGHT 2 LANES TO TAKE EXIT 88 FOR OSO PKWY.
- USE THE LEFT 2 LANES TO TURN LEFT ONTO OSO PKWY (SIGNS FOR OSO PKWY
- DESTINATION WILL BE ON THE RIGHT

EAST/RILEY PARK).

ACCESSIBILITY REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS S NOT REQUIRED PER CBC 2022 SECTION 11B-203.4 (LIMITED ACCESS SPACES) SECTION 11B-203.5 (MACHINERY SPACES)

APPROVALS

	ALLINOVALS	
APPROVAL	SIGNATURE	DATE
PROJECT MANAGER		
T-MOBILE RF ENGINEER		
SITE ACQUISITION		
CONSTRUCTION MANAGER		
SITE OWNER		
T-MOBILE DEVELOPMENT MANAGER		
T-MOBILE CONSTRUCTION MANAGER		
T-MOBILE OPS MANAGER		
T-MOBILE REGULATORY REVIEW		
T-MOBILE PROJECT MANAGER		

CODE COMPLIANCE

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

CALIFORNIA STATE AND LOCAL BUILDING CODES WITH THE FOLLOWING REFERENCE CODE

- 2022 CALIFORNIA BUILDING CODE VOLUME 1(CBC) 2022 CALIFORNIA BUILDING CODE VOLUME 2(CBC) 2022 CALIFORNIA MECHANICAL CODE (CMC)
- 2022 CALIFORNIA PLUMBING CODE (CPC)
 2022 CALIFORNIA ENERGY CODE (CEC) 2022 CALIFORNIA FLECTRICAL CODE (CEC)

CONTRACTOR TO CALL TO VERIEV LITH ITIES AT

DO NOT SCALE DRAWINGS

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

Know what's below. Call before you dig. T - Mobile



10590 WEST OCEAN AIR DRIVE SAN DIEGO, CA 92130



600 STEWART STREET, SUITE 200 Tel: 206.268.7370 MH PROJECT NUMBER: 202131600.33

REV. ISSUED FOR 08/21/20 90% REVIEW 0 03/23/21 100% CONSTRUCTION LW 06/18/21 100% CONSTRUCTION LW 08/13/21 100% CONSTRUCTION ML 04/14/22 100% CONSTRUCTION ML

06/24/22 100% CONSTRUCTION RB 5 | 11/21/22 | 100% CONSTRUCTION | SJ 02/14/23 100% CONSTRUCTION ED 7 07/21/23 100% CONSTRUCTION MLG SET NOT TO BE USED FOR CONSTRUCTION

UNLESS SIGNED BY DESIGN PROFESSIONAL
AND STAMPED APPROVED BY MUNICIPALITY

LICENSURE:

CM371 RSMWD PUMP STATION

LA02371A

SITE ADDRESS:

-MOBILE SITE I.D.

29634 OSO PKWY RANCHO SANTA MAGARITA,

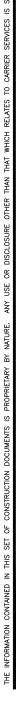
CA 92688

SHEET NAME:

TITLE SHEET

SHEET NUMBER

T-1



- THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE WHICH COULD AFFECT THE WORK UNDER THIS CONTRACT. ALL MANUFACTURERS RECOMMENDED SPECIFICATIONS, EXCEPT THOSE SPECIFICATIONS HEREIN, WHERE MOST STRINGENT SHALL BE COMPLIED
- THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF ANY AND ALL MECHANICAL, ELECTRICAL, PLUMBING, OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE MET. NOTIFY THE CONSULTANT OF ANY CONFLICTS. THE CONSULTANT HAS THE RIGHT TO MAKE MINOR MODIFICATIONS IN THE DESIGN OF THE CONTRACT WITHOUT THE CONTRACTOR GETTING ADDITIONAL
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE BUILDING, SITE, AND ANY OTHER SURROUNDING AREAS TO A BETTER THAN NEW CONDITION.
- THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES.
- WHERE ONE DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS OR REFERRED TO IN THE SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- WHERE NEW PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.
- 8. THE GENERAL CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION OF THE EXPECTED DATE OF COMPLETION OF THE
- IF THE POWER COMPANY IS UNABLE TO PROVIDE THE POWER CONNECTION BY OWNER'S REQUIRED DATE, THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY GENERATOR UNTIL THE POWER COMPANY CONNECTION IS COMPLETED. COSTS ASSOCIATED WITH THE TEMPORARY GENERATOR TO BE APPROVED BY THE OWNER.
- 10. PLANS PART OF THIS SET ARE COMPLEMENTARY. INFORMATION IS NOT LIMITED TO ONE PLAN. DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY THE OWNER ON OTHER PROJECTS OR EXTENSION TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO MORRISON HERSHFIELD. THESE PLANS WERE PREPARED TO BE SUBMITTED TO GOVERNMENTAL BUILDING AUTHORITIES FOR REVIEW FOR COMPLIANCE WITH APPLICABLE CODES AND IT IS THE SOLE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO BUILD ACCORDING TO APPLICABLE BUILDING CODES
- 11. IF CONTRACTOR OR SUB-CONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUB-CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ARCHITECT WITH (4) COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY PROPOVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.
- 12. IN EVERY EVENT, THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL BE INTERPRETED TO BE A MINIMUM ACCEPTABLE MEANS OF CONSTRUCTION BUT THIS SHALL NOT RELIEVE THE CONTRACTOR SUB-CONTRACTOR AND/OR SUPPLIER/MANUFACTURER FROM PROVIDING A COMPLETE AND CORRECT JOB WHEN ADDITIONAL ITEMS ARE REQUIRED TO THE MINIMUM SPECIFICATION. IF ANY ITEMS NEED TO EXCEED THESE MINIMUM SPECIFICATIONS TO PROVIDE A COMPLETE, ADEQUATE AND SAFE WORKING CONDITION, THEN IT SHALL BE THE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE DRAWINGS. FOR EXAMPLE, IF AN ITEM AND/OR PIECE OF EQUIPMENT REQUIRES A LARGER WIRE SIZE (I.E. ELECTRICAL WIRE), STRONGER OR LARGER PIPING, INCREASED QUANTITY (I.E. STRUCTURAL ELEMENTS), REDUCED SPACING, AND/OR INCREASED LENGTH (I.E. BOLT LENGTHS, BAR LENGTHS) THEN IT SHALL BE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE BID/PROPOSAL. THESE DOCUMENTS ARE MEANT AS A GUIDE AND ALL ITEMS REASONABLY INFERRED SHALL BE DEEMED TO BE INCLUDED.
- 13. THESE CONTRACT DOCUMENTS AND SPECIFICATIONS SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE ARCHITECT AND THE CONTRACTOR.

ELECTRICAL GENERAL NOTES

- EXAMINE THE SITE CONDITIONS VERY CAREFULLY AND THE SCOPE OF PROPOSED WORK TOGETHER WITH THE WORK OF ALL OTHER TRADES AND INCLUDE IN THE BID PRICE ALL COSTS FOR WORK SUCH AS EQUIPMENT AND WIRING MADE NECESSARY TO ACCOMMODATE THE ELECTRICAL SYSTEMS SHOWN AND SYSTEMS OF OTHER TRADES.
- OBTAIN ALL PERMITS, PAY ASSOCIATED FEES AND SCHEDULE INSPECTION
- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INSURANCE, AND SERVICES TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND PRESENT IT AS FULLY OPERATIONAL TO THE SATISFACTION OF T-MOBILE & LAND/TOWER OWNER
- PRIOR TO BEGINNING WORK COORDINATE ALL POWER AND TELCO WORK WITH THE LOCAL UTILITY COMPANY AS IT MAY APPLY TO THIS SITE. ALL WORK TO COMPLY WITH THE RULES AND REGULATIONS OF THE UTILITIES INVOLVED GENERAL CONTRACTOR IS RESPONSIBLE FOR VED. REQUESTING CONNECTION OF COMMERCIAL POWER FROM THE POWER COMPANY. ELECTRICAL CONTRACTOR SHALL COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR.
- 5. FABRICATION AND INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM SHALL BE DONE IN A FIRST CLASS WORKMANSHIP PER NECA STANDARD 1-2000 BY QUALIFIED PERSONNEL EXPERIENCED IN SUCH WORK SCHEDULE THE WORK IN AN ORDERLY MANNER SO AS NOT TO IMPEDE PROGRESS OF THE PROJECT.

B. BASIC MATERIALS AND METHODS

- ALL ELECTRICAL WORK SHALL CONFORM TO THE EDITION OF THE NEC ACCEPTED BY THE LOCAL JURISDICTION AND TO THE APPLICABLE LOCAL CODES AND REGULATIONS.
- ARRANGE CONDUIT, WIRING, EQUIPMENT, AND OTHER WORK GENERALLY AS SHOWN, PROVIDING PROPER CLEARANCES AND ACCESS. CAREFULLY EXAMINE ALL CONTRACT DRAWINGS AND FIT THE WORK IN EACH LOCATION WITHOUT SUBSTANTIAL ALTERATION. WHERE DEPARTURES ARE PROPOSED BECAUSE OF FIELD CONDITIONS OR OTHER CAUSES, PREPARE AND SUBMIT DETAILED DRAWINGS FOR ACCEPTANCE.
- 3. THE CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ALL OFFSETS, BENDS, FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. PROVIDE ALL SUCH ITEMS AS MAY BE REQUIRED TO FIT THE WORK TO THE CONDITIONS.
- 4. SEAL AROUND CONDUITS AND AROUND CONDUCTORS WITHIN CONDUITS ENTERING THE MODULAR CABINETS WHERE PENETRATION OCCURS WITH A SILICONE SEALANT TO PREVENT MOISTURE PENETRATION INTO BUILDING.

- UNIESS NOTED OTHERWISE ALL CONDUCTORS SHALL BE COPPER MINIMUM SIZE #12 AWG WITH THERMOPLASTIC INSULATION CONFORMING TO NEMA WC5 OR CROSS-LINKED POLYETHYLENE INSULATION CONFORMING TO NEMA WC7. (TYPES THHN). INSULATION SHALL BE RATED FOR 90 DEG. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE
- 2. CONDUCTOR LENGTHS SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITHOUT SPLICES. SPLICES ARE NOT ACCEPTABLE. IF SPLICES ARE UNAVOIDABLE PRIOR APPROVAL FROM THE ENGINEER MUST BE OBTAINED.

- ALL LIGHTNING PROTECTION GROUNDING OF THE ELECTRICAL EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH
- ALL GROUND LUG AND COMPRESSION CONNECTIONS SHALL BE COATED WITH ANTI-OXIDANT AGENT, SUCH AS NO-OX, NOALOX, PENETROX OR KOPRSHIELD.
- ALL EXTERIOR GROUNDING CONDUCTORS INCLUDING EXTERIOR GROUND RING SHALL BE #2 AWG SOLID BARE TINNED COPPER. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. THE RADIUS OF ANY BEND SHALL NOT BE LESS THAN 8" AND THE ANGLE OF ANY BEND SHALL NOT EXCEED 90". GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD THE BURIED GROUND RING.
- 4. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY THERMO-WELDING WITH ERICO T-319 GALVANIZING
- 5. ALL EXTERNAL GROUND CONNECTIONS SHALL BE EXOTHERMICALLY WELDED. ALL EXOTHERMIC WELDS TO EXTERIOR GROUND RING SHALL BE THE PARALLEL TYPE, EXCEPT FOR THE GROUND RODS WHICH ARE TEE EXOTHERMIC WELDS. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY EXOTHERMIC WELDING. USE SPRAY GALVANIZER SUCH AS HOLUB LECTROSOL #15-501.

COMPOUND NOTES

- CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY ALL UTILITY SERVICE CONNECTION LOCATIONS PRIOR TO SUBMITTING BID AND PROCEEDING WITH WORK. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE AND VERIFY ALL DIMENSIONS AND NOTES BEFORE SUBMITTING BID AND PROCEEDING WITH WORK.
- 2. SOIL AT THIS SITE IS UNDISTURBED ROCK AND SAND ADEQUATE OF SUPPORTING THE DESIGN LOAD OF 2000 P.S.F. IF OTHER CONDITIONS ARE ENCOUNTERED, NOTIFY MORRISON HERSHFIELD BEFORE PROCEEDING WITH WORK. THIS VALUE IS CONSIDERED SAFE WITH RESPECT TO ACTUAL FAILURE OF THE SUPPORTING GROUND, BUT DOES NOT NECESSARILY ENSURE THE PREVENTION OF EXCESSIVE FOUNDATION MOVEMENTS.
- 3. IN ORDER TO AVOID ANY CONFLICTS, CONTRACTOR SHALL COORDINATE ALL HIS PRACTICAL TRADES.
- 4. THE POWER CABINET MUST BE CLEAR OF FLAMMABLE MATERIAL WITHIN 12 INCHES OF THE CABINET, INCLUDING ABOVE THE CABINET.
- 5. THE POWER CABINET MUST BE MOUNTED ON THE FOUNDATION TO ALLOW WATER TO DRAIN FROM THE DRAIN OUTLET
- 6. TO ENSURE SERVICEABLE ABILITY, THE DOORS OF CABINETS WILL REQUIRE AN OPENING RADIUS OF 36 INCHES OF CLEARANCE FROM THE CLOSED POSITION TO THE OPEN POSITION.



10590 WEST OCEAN AIR DRIVE SAN DIEGO, CA 92130



600 STEWART STREET, SUITE 200 SEATTLE, WA 98101 Tel: 206.268.7370

MH PROJECT NUMBER: 202131600.33

lí	REV.	DATE	ISSUED FOR	BY
	А	08/21/20	90% REVIEW	ВА
ı	0	03/23/21	100% CONSTRUCTION	LW
l	1	06/18/21	100% CONSTRUCTION	LW
I	2	08/13/21	100% CONSTRUCTION	MLG
	3	04/14/22	100% CONSTRUCTION	MLG
ı	4	06/24/22	100% CONSTRUCTION	RB
I	5	11/21/22	100% CONSTRUCTION	SJ
I	6	02/14/23	100% CONSTRUCTION	ED
I	7	07/21/23	100% CONSTRUCTION	MLG
	UNLES	S SIGNED E	USED FOR CONSTRUC BY DESIGN PROFESSION PROVED BY MUNICIPA	JANC

SITE GENERAL NOTES

- 1. RESTORE EXISTING ASPHALT AND/OR CONCRETE COMPOUND TO IT'S ORIGINAL CONDITION.
- 2. CONTRACTOR SHALL DETECT AND MARK ANY UNDERGROUND LINES, PIPING, PRIOR TO START OF EXCAVATION.

PROJECT INFORMATION

- THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.
- 3. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.
- 4. NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.
- 5. NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.
- 6. T-MOBILE MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE

LICENSURE:

CM371 RSMWD PUMP STATION

-MOBILE SITE I.D.

LA02371A

SITE ADDRESS:

29634 OSO PKWY RANCHO SANTA MAGARITA, CA 92688

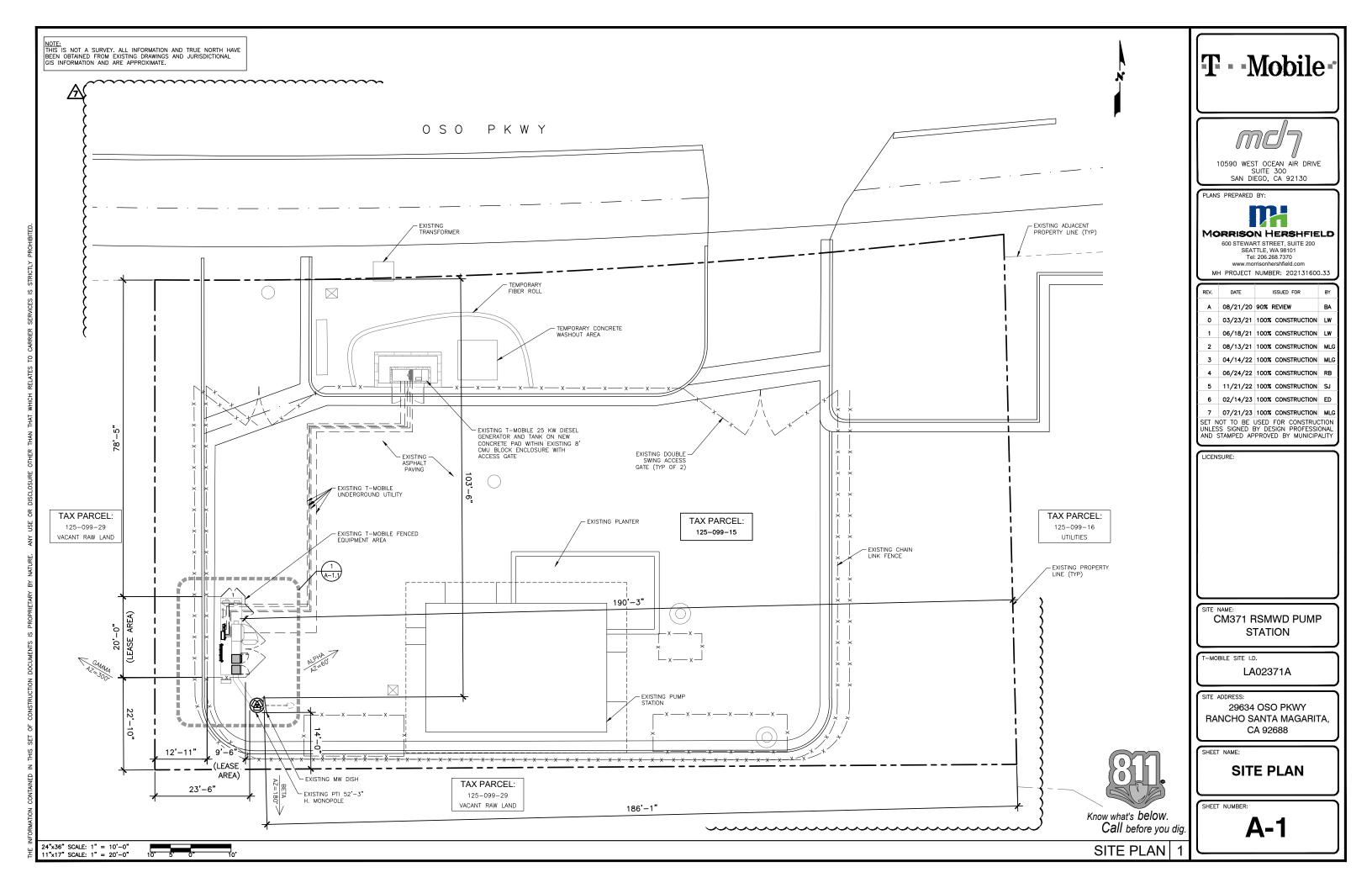
IMPORTANT NOTICE

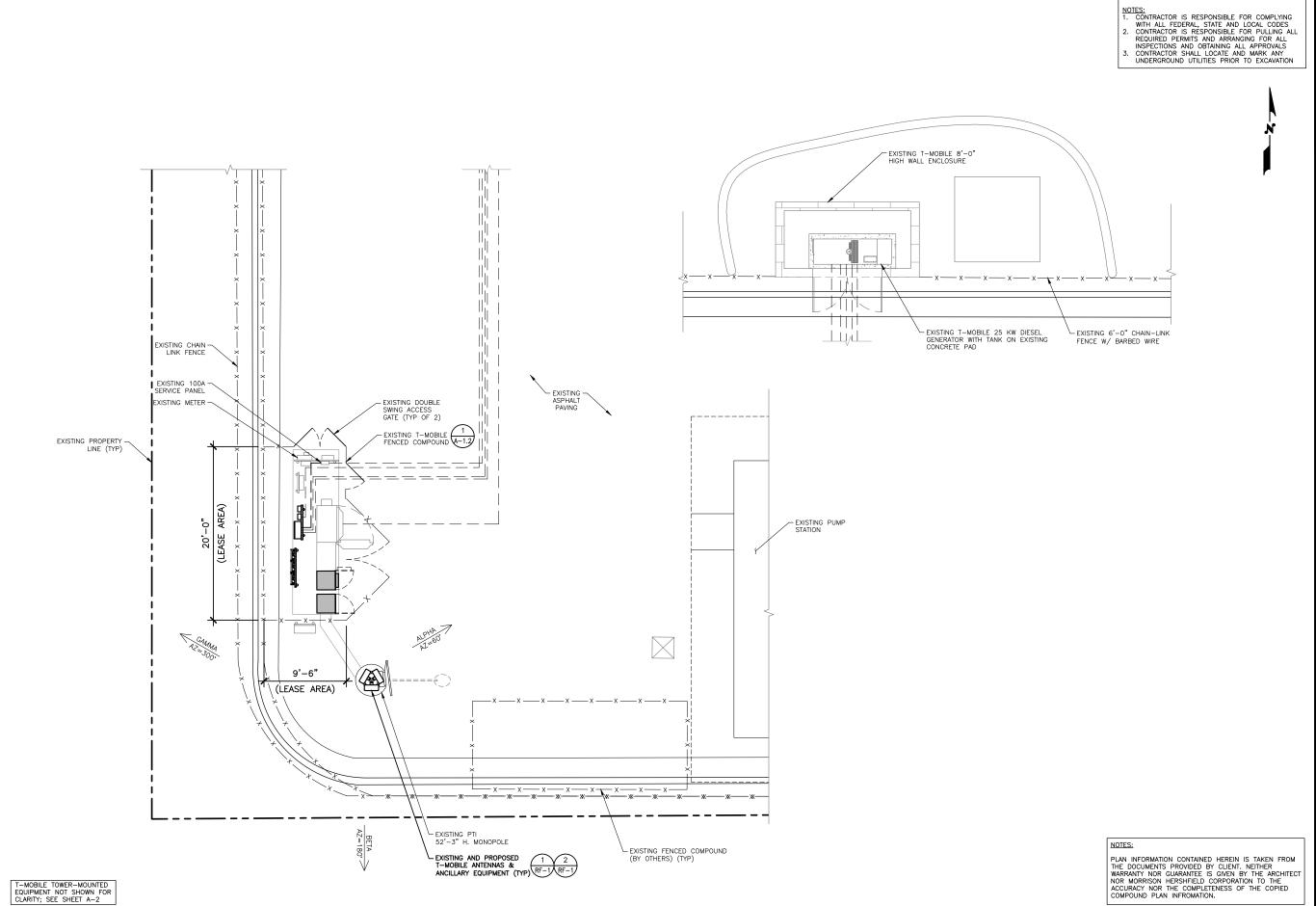
THE EXISTING CONDITIONS REPRESENTED HEREIN ARE BASED ON VISUAL OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS. MORRISON HERSHFIELD CORPORATION CANNOT GUARANTEE THE CORRECTNESS NOR COMPLETENESS OF THE EXISTING CONDITIONS SHOWN AND ASSUMES NO RESPONSIBILITY THEREOF. CONTRACTOR AND HIS SUB-CONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AS REQUIRED FOR PROPER EXECUTION OF PROJECT. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CONSULTANT PRIOR TO CONSTRUCTION.

GENERAL NOTES

SHEET NUMBER

T-2





24"x36" SCALE: 3/16" = 1'-0" 11"x17" SCALE: 3/32" = 1'-0" 4' 2' 0" T - Mobile



10590 WEST OCEAN AIR DRIVE SUITE 300 SAN DIEGO, CA 92130

PLANS PREPARED



MORRISON HERSHFIELD 600 STEWART STREET, SUITE 200

STEWART STREET, SUITE 200 SEATTLE, WA 98101 Tel: 206.268.7370 www.morrisonhershfield.com

MH PROJECT NUMBER: 202131600.33

_							
REV.	DATE	ISSUED FOR	BY				
Α	08/21/20	90% REVIEW	ВА				
0	03/23/21	100% CONSTRUCTION	LW				
1	06/18/21	100% CONSTRUCTION	LW				
2	08/13/21	100% CONSTRUCTION	MLG				
3	04/14/22	100% CONSTRUCTION	MLG				
4	06/24/22	100% CONSTRUCTION	RB				
5	11/21/22	100% CONSTRUCTION	SJ				
6	02/14/23	100% CONSTRUCTION	ED				
7	07/21/23	100% CONSTRUCTION	MLG				
SET NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY DESIGN PROFESSIONAL AND STAMPED APPROVED BY MUNICIPALITY							

LICENSURE:

SITE NAME

CM371 RSMWD PUMP STATION

T-MOBILE SITE I.D.

LA02371A

SITE ADDRESS:

29634 OSO PKWY RANCHO SANTA MAGARITA, CA 92688

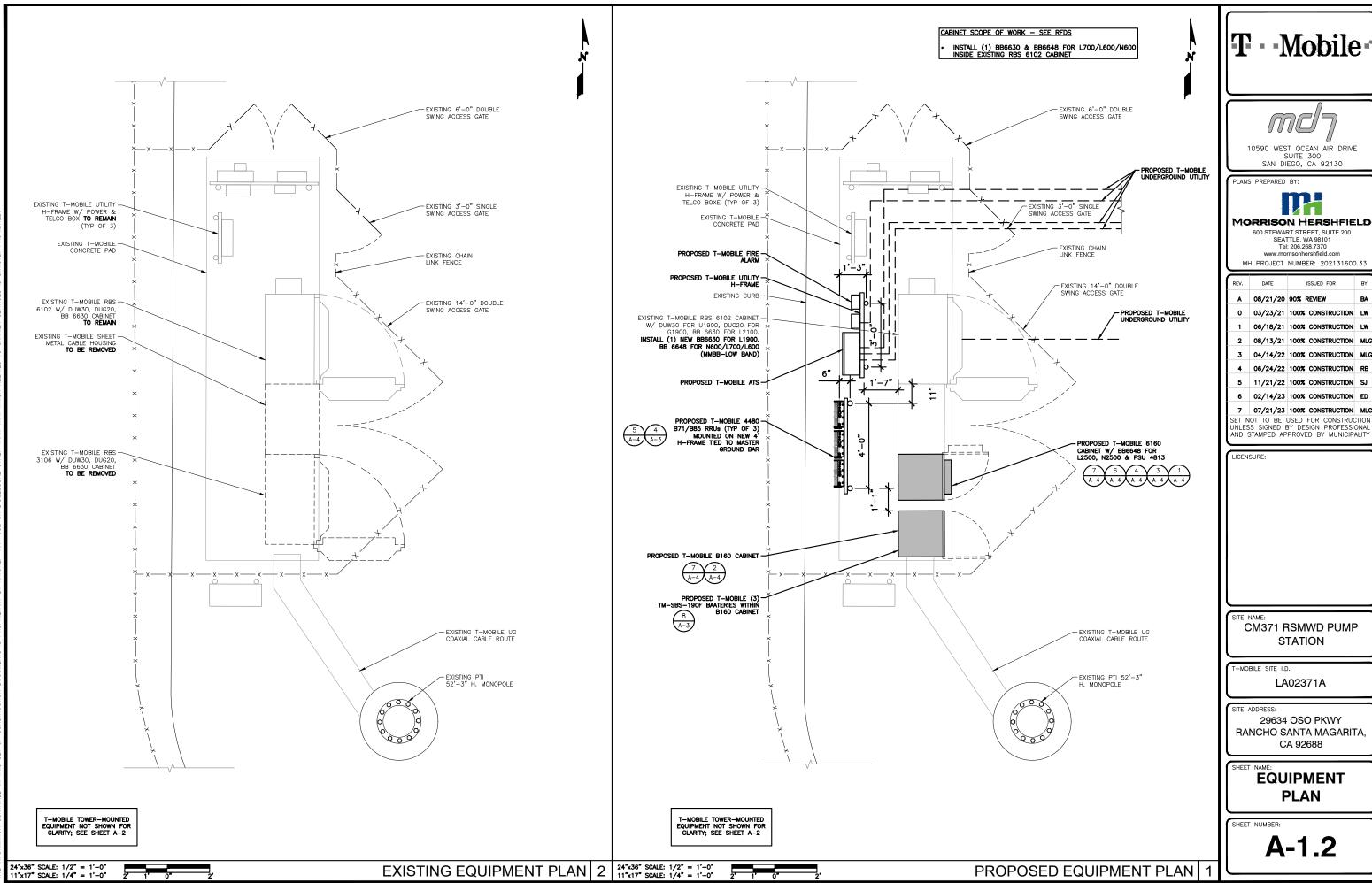
SHEET NAME

ENLARGED PLAN

SHEET NUMBER:

A-1.1

ENLARGED PLAN



T - Mobile



10590 WEST OCEAN AIR DRIVE SUITE 300 SAN DIEGO, CA 92130



MORRISON HERSHFIELD 600 STEWART STREET, SUITE 200 SEATTLE, WA 98101

Tel: 206.268.7370 www.morrisonhershfield.com MH PROJECT NUMBER: 202131600.33

REV.	DATE	ISSUED FOR	BY
A	08/21/20	90% REVIEW	BA
0	03/23/21	100% CONSTRUCTION	LW
1	06/18/21	100% CONSTRUCTION	LW
2	08/13/21	100% CONSTRUCTION	MLG
3	04/14/22	100% CONSTRUCTION	MLG
4	06/24/22	100% CONSTRUCTION	RB
5	11/21/22	100% CONSTRUCTION	SJ
6	02/14/23	100% CONSTRUCTION	ED
7	07/21/23	100% CONSTRUCTION	MLG

CM371 RSMWD PUMP **STATION**

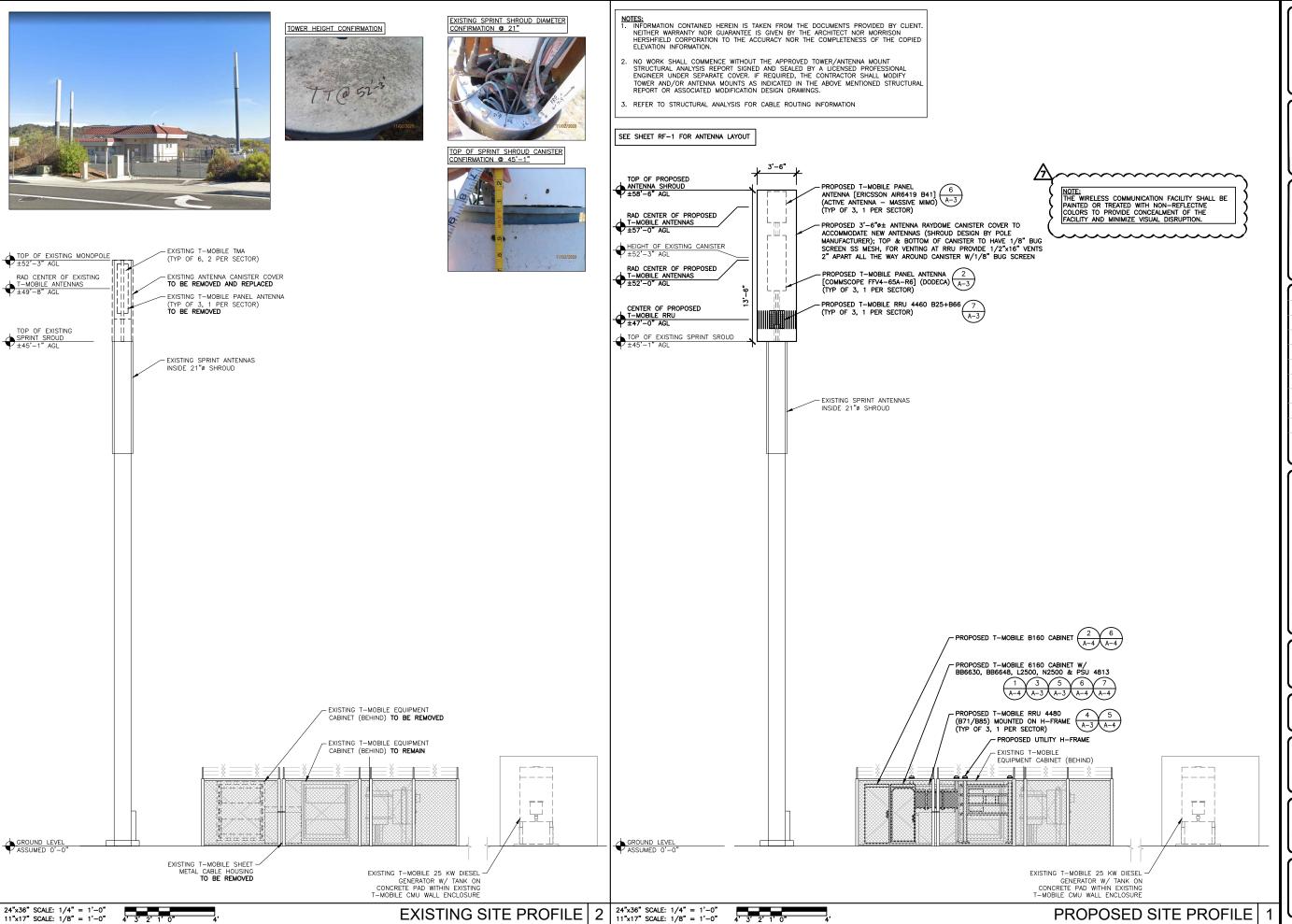
LA02371A

29634 OSO PKWY RANCHO SANTA MAGARITA, CA 92688

EQUIPMENT PLAN

SHEET NUMBER:

A-1.2



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

 $|\mathbf{T} - \mathbf{Mobile}|$



10590 WEST OCEAN AIR DRIVE SUITE 300 SAN DIEGO, CA 92130



600 STEWART STREET, SUITE 200 SEATTLE, WA 98101 Tel: 206.268.7370

MH PROJECT NUMBER: 202131600.33

			$\overline{}$
REV.	DATE	ISSUED FOR	BY
А	08/21/20	90% REVIEW	ВА
0	03/23/21	100% CONSTRUCTION	LW
1	06/18/21	100% CONSTRUCTION	LW
2	08/13/21	100% CONSTRUCTION	MLG
3	04/14/22	100% CONSTRUCTION	MLG
4	06/24/22	100% CONSTRUCTION	RB
5	11/21/22	100% CONSTRUCTION	SJ
6	02/14/23	100% CONSTRUCTION	ED
7	07/21/23	100% CONSTRUCTION	MLG
UNLES	S SIGNED E	JSED FOR CONSTRUC BY DESIGN PROFESSION PROVED BY MUNICIPA	JAAC

LICENSURE:

CM371 RSMWD PUMP **STATION**

T-MOBILE SITE I.D.

LA02371A

SITE ADDRESS:

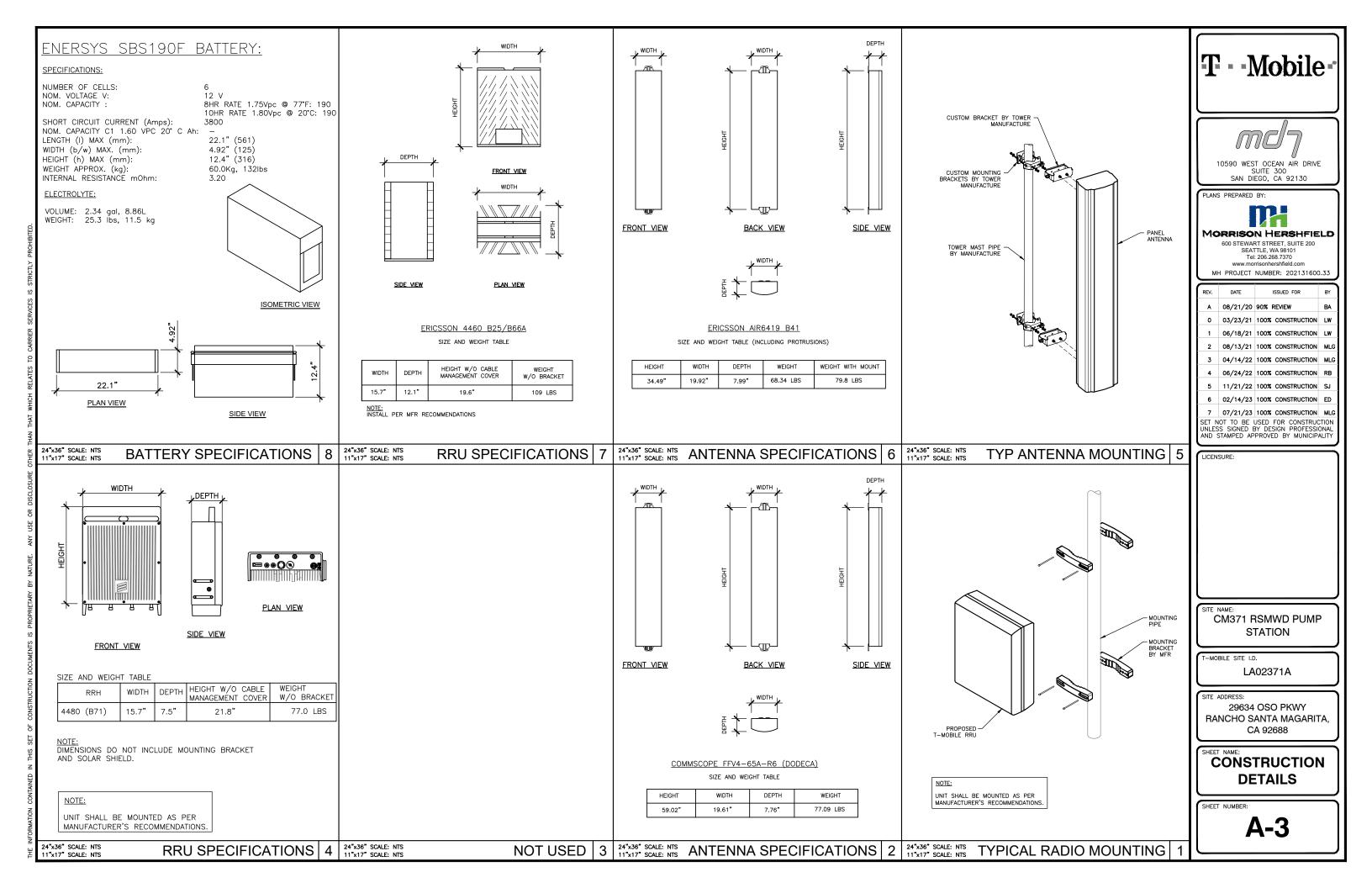
29634 OSO PKWY RANCHO SANTA MAGARITA, CA 92688

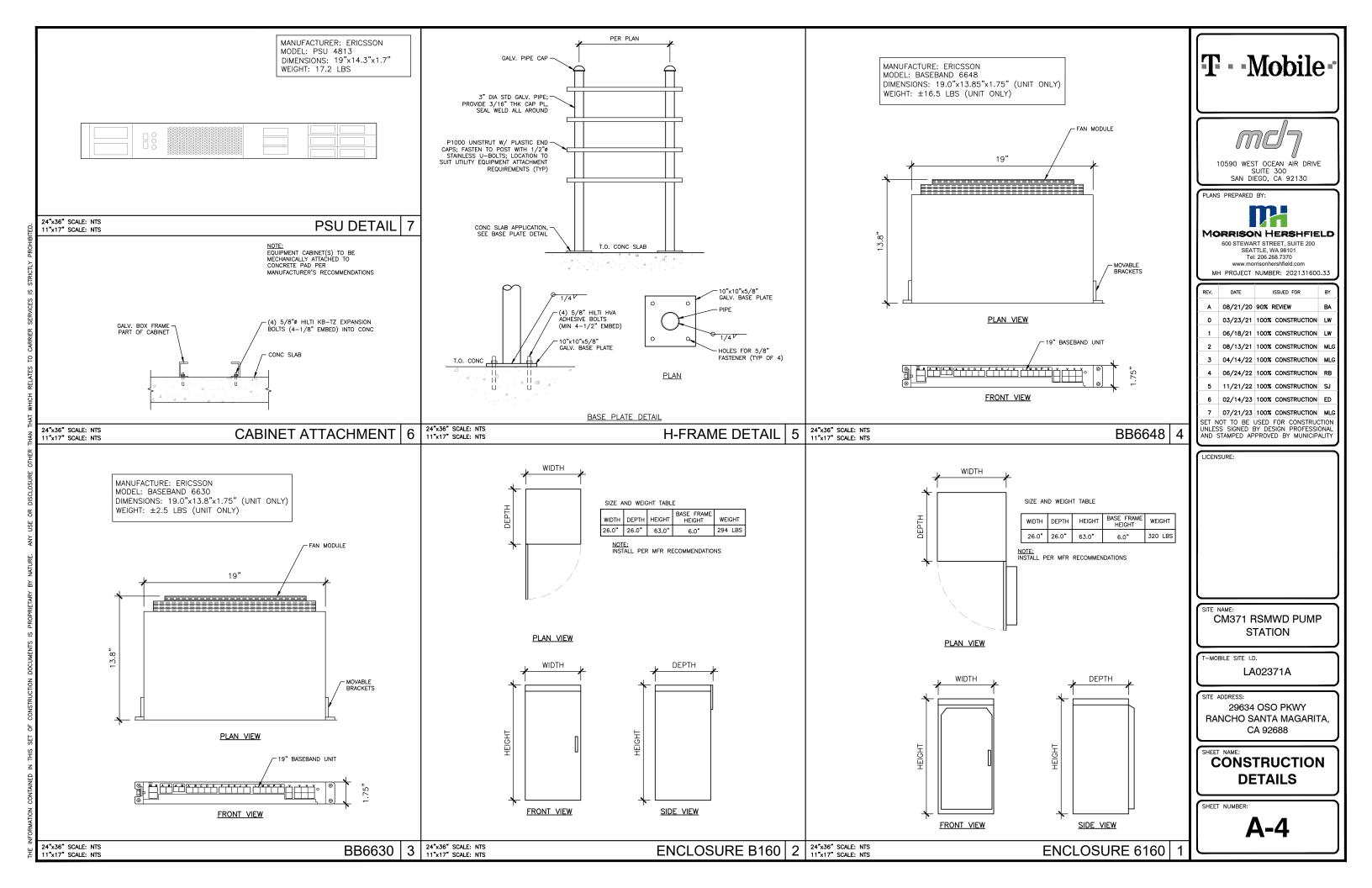
SHEET NAME:

SITE **PROFILE**

SHEET NUMBER:

A-2





EXISTING ANTENNA AND COAX SCHEDULE RFDS ANCHOR VERSION 8, DATED 05/16/2022 01:3:59 PM								/16/2022 01:3:59 PM			
SECTOR ALPHA	TECH	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC TILT	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER LENGTH	ADDITIONAL EQUIPMENT
A1	U1900 L2100 G1900	60°	50'-0"	1	ANDREW	ADFD182A-6565B-XDM (QUAD)	0	0	(4) 7/8" COAX (TO REMAIN)	70'	(1) TWIN STYLE 1B-AWS (2) E15S09P84 TMA
SECTOR BETA	TECH	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC TILT	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER LENGTH	ADDITIONAL EQUIPMENT
В1	U1900 L2100 G1900	180°	50'-0"	1	ANDREW	ADFD182A-6565B-XDM (QUAD)	0	0	(4) 7/8" COAX (TO REMAIN)	70'	(1) TWIN STYLE 1B-AWS (2) E15S09P84 TMA
SECTOR GAMMA	TECH	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC TILT	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER LENGTH	ADDITIONAL EQUIPMENT
C1	U1900 L2100 G1900	300°	50'-0"	1	ANDREW	ADFD182A-6565B-XDM (QUAD)	2	0	(4) 7/8" COAX (TO REMAIN)	70'	(1) TWIN STYLE 1B-AWS (2) E15S09P84 TMA

					PROPO	sed antenna ani	D COA	X SCHED	DULE RFDS ANCHOR VERSION	8, DATED	05/16/2022 01:3:59 PM
SECTOR ALPHA	TECH	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC TILT	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER LENGTH	ADDITIONAL EQUIPMENT
A1	L2500, N2500	60°	57'-0"	1	ERICSSON	AIR6419 B41	0,	0*	(4) 2F SM OUTDOORCON - LCD W/ COVER (4) 2F SM OUTDOORCON - LCD	5M 10'	
A2	L700, L600 N600, L1900, U1900, L2100	60°	52'-0"	1	COMMSCOPE	FFV4-65A-R6	0,	0*	W/ COVER SUREFLEX 4.3-10 TO 4.3-10 (8) SUREFLEX 4.3-10 TO DM (4) 2F SM OUTDOORCON - LCD W/ COVER (4) 7/8" COAX HCS 6x24	15' 5M 70' 30M	(1) RRU 4460 B25/B66A (AT ANTENNA) (1) RRU 4480 B25/B66 (AT CABINET)
SECTOR BETA	TECH	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER LENGTH	ADDITIONAL EQUIPMENT
B1	L2500, N2500	180°	57'-0"	1	ERICSSON	AIR6419 B41	0•	0*	(4) 2F SM OUTDOORCON - LCD W/ COVER (4) 2F SM OUTDOORCON - LCD	5M 10'	
B2	L700, L600 N600, L1900, U1900, L2100	180*	52'-0"	1	COMMSCOPE	FFV4-65A-R6	0.	0*	W/ COVER SUREFLEX 4.3-10 TO 4.3-10 (8) SUREFLEX 4.3-10 TO DM (4) 2F SM OUTDOORCON - LCD W/ COVER (4) 7/8" COAX HCS 6x24	15' 5M 70' 30M	(1) RRU 4460 B25/B66A (AT ANTENNA) (1) RRU 4480 B25/B66 (AT CABINET)
SECTOR GAMMA	TECH	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC TILT	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER LENGTH	ADDITIONAL EQUIPMENT
C1	L2500, N2500	300*	57'-0"	1	ERICSSON	AIR6419 B41	0*	0,	(4) 2F SM OUTDOORCON - LCD W/ COVER (4) 2F SM OUTDOORCON - LCD	5M 10'	
C2	L700, L600 N600, L1900, U1900, L2100	300*	52'-0"	1	COMMSCOPE	FFV4-65A-R6	0.	0*	W/ COVER SUREFLEX 4.3-10 TO 4.3-10 (8) SUREFLEX 4.3-10 TO DM (4) 2F SM OUTDOORCON - LCD W/ COVER (4) 7/8" COAX HCS 6x24	15' 5M 70' 30M	(1) RRU 4460 B25/B66A (AT ANTENNA) (1) RRU 4480 B25/B66 (AT CABINET)

NOTES:

1. ALL PROPOSED EQUIPMENT IS LOW VOLTAGE, DC POWER

2. COORDINATE WITH CONSTRUCTION MANAGER FOR CURRENT RFDS PRIOR
TO CONSTRUCTION

3. CABLE LENGTH IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY CABLE
LENGTHS PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF
CABLES.

CABLES.

A NO WORK SHALL COMMENCE WITHOUT THE APPROVED TOWER/ANTENNA MOUNT STRUCTURAL ANALYSIS REPORT (SIGNED AND SEALED) PROVIDED BY OTHERS UNDER SEPARATE COVER. CONTRACTOR PRIOR TO INSTALLATION OF ANTENNAS, EQUIPMENT AND COAX CABLES SHALL REVIEW THE APPROVED TOWER STRUCTURAL ANALYSIS PROVIDED BY T-MOBILE AND MODIFY, IF REQUIRED, ALL APPLICABLE MEMBERS AS INDICATED IN THE CERTIFIED STRUCTURAL.

CUSTOM ANTENNA BRACKETS BY TOWER MANUFACTURER CENTER MAST PIPE BY TOWER MANUFACTURER

47'-0" RRU CENTER

- PROPOSED T-MOBILE PANEL
ANTENNA [ERICSSON AIR6419 B41]
(ACTIVE ANTENNA - MASSIVE MIMO)
(TYP OF 3, 1 PER SECTOR)

PROPOSED 3'-6"# ANTENNA RAYDOME CANISTER COVER TO ACCOMMODATE NEW ANTENNAS (SHROUD DESIGN BY POLE MANUFACTURER)

A-3

LICENSURE:

CM371 RSMWD PUMP **STATION**

 $|\mathbf{T} - \mathbf{Mobile}|$

10590 WEST OCEAN AIR DRIVE SUITE 300 SAN DIEGO, CA 92130

MORRISON HERSHFIELD 600 STEWART STREET, SUITE 200 Tel: 206.268.7370 www.morrisonhershfield.com MH PROJECT NUMBER: 202131600.33

08/21/20 90% REVIEW 0 03/23/21 100% CONSTRUCTION LW

ISSUED FOR

06/18/21 100% CONSTRUCTION LW 2 08/13/21 100% CONSTRUCTION ML 3 04/14/22 100% CONSTRUCTION ML

4 06/24/22 100% CONSTRUCTION RB 5 11/21/22 100% CONSTRUCTION SJ 6 02/14/23 100% CONSTRUCTION ED 7 07/21/23 100% CONSTRUCTION MLG

SET NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY DESIGN PROFESSIONAL AND STAMPED APPROVED BY MUNICIPALITY

T-MOBILE SITE I.D.

LA02371A

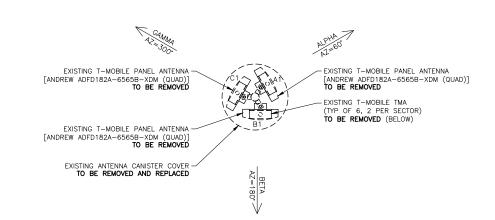
SITE ADDRESS:

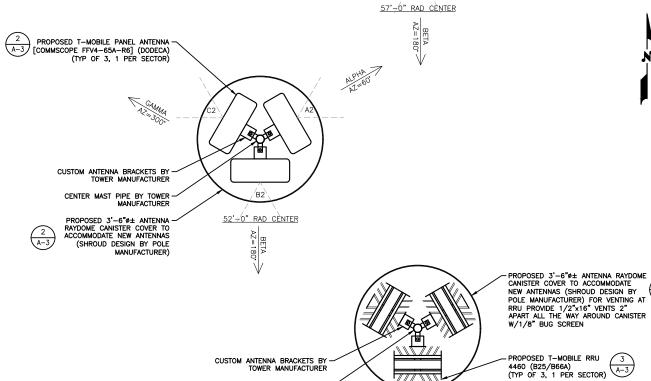
29634 OSO PKWY RANCHO SANTA MAGARITA, CA 92688

ANTENNA CONFIGURATION

SHEET NUMBER:

RF-1





24"x36" SCALE: 3/4" = 1'-0" 11"x17" SCALE: 3/8" = 1'-0"

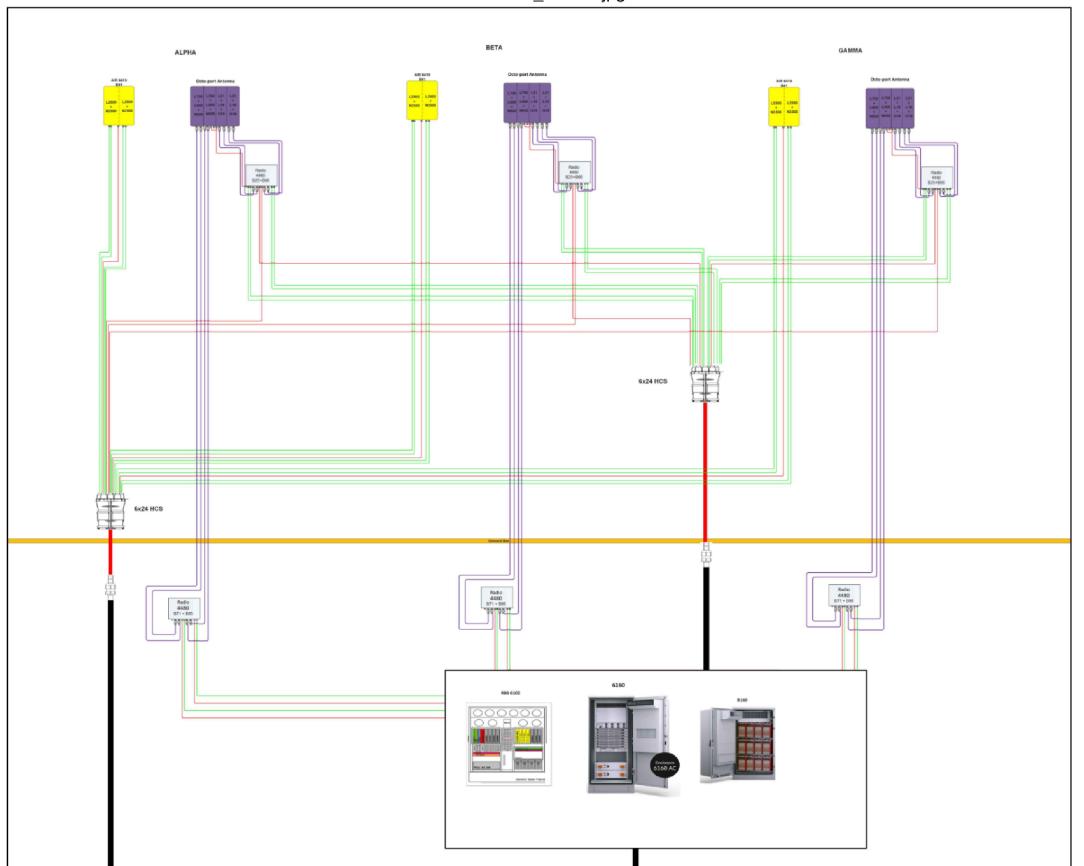
2 **EXISTING ANTENNA LAYOUT**

24"x36" SCALE: 3/4" = 1'-0" 11"x17" SCALE: 3/8" = 1'-0"

CENTER MAST PIPE BY TOWER -MANUFACTURER

PROPOSED ANTENNA LAYOUT

LA02371A_Anchor.jpg



T - Mobile



10590 WEST OCEAN AIR DRIVE SUITE 300 SAN DIEGO, CA 92130



MORRISON HERSHFIELD

600 STEWART STREET, SUITE 200 SEATTLE, WA 98101 Tel: 206.268.7370 www.morrisonhershfield.com MH PROJECT NUMBER: 202131600.33

ISSUED FOR A 08/21/20 90% REVIEW 0 03/23/21 100% CONSTRUCTION LW 1 06/18/21 100% CONSTRUCTION LW 3 04/14/22 100% CONSTRUCTION MLG 4 06/24/22 100% CONSTRUCTION RB 5 11/21/22 100% CONSTRUCTION SJ 6 02/14/23 100% CONSTRUCTION ED 7 07/21/23 100% CONSTRUCTION MLG SET NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY DESIGN PROFESSIONAL AND STAMPED APPROVED BY MUNICIPALITY

LICENSURE:

SITE NAME: CM371 RSMWD PUMP STATION

T-MOBILE SITE I.D.

LA02371A

SITE ADDRESS:

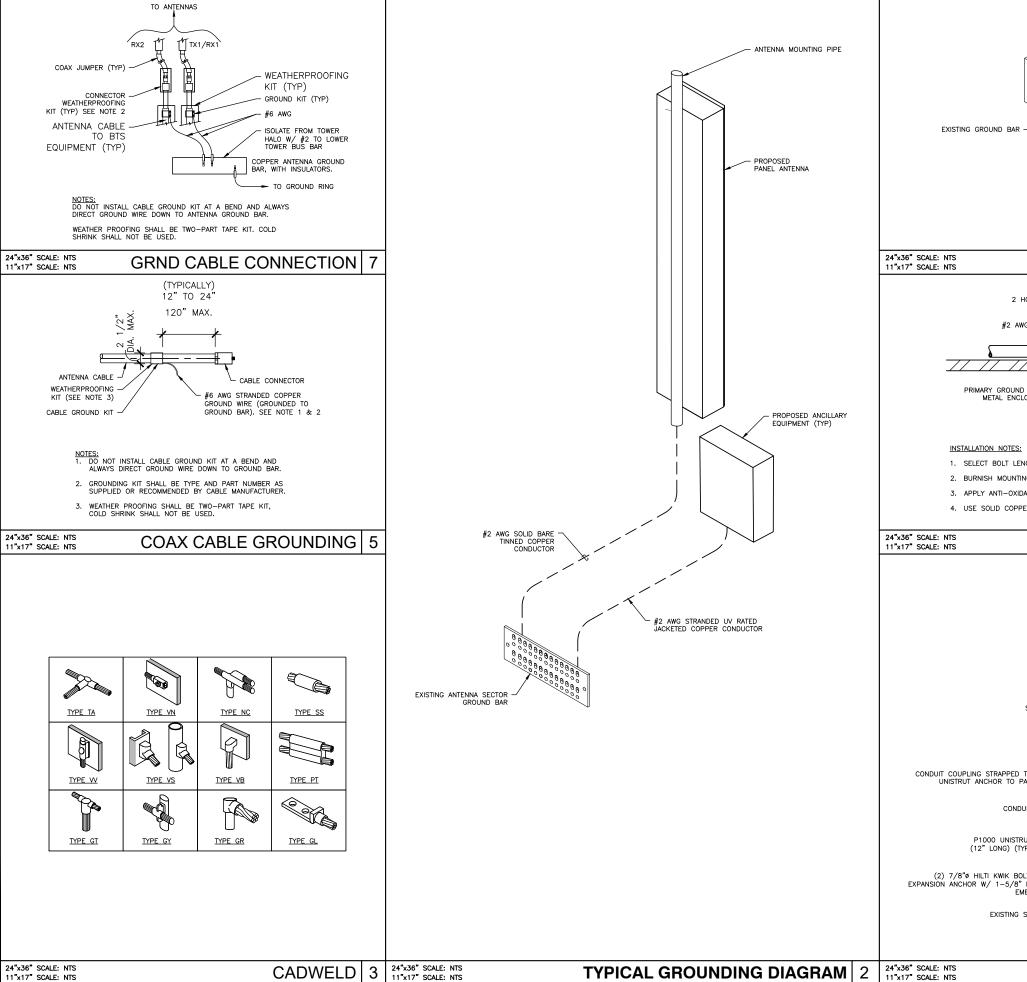
29634 OSO PKWY RANCHO SANTA MAGARITA, CA 92688

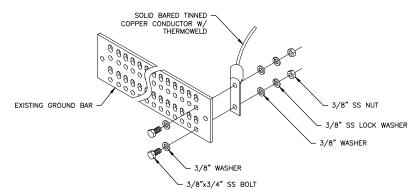
SHEET NAME:
PLUMBING **DIAGRAM**

RF-2

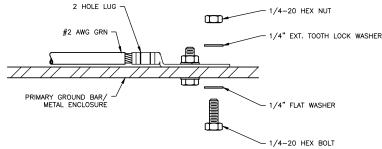
24"x36" SCALE: NTS 11"x17" SCALE: NTS

PLUMBING DIAGRAM



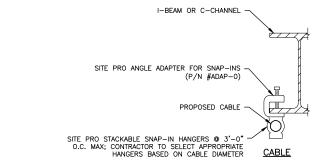


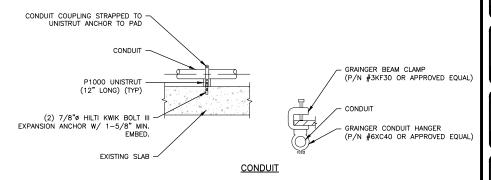
TYPICAL GROUND BAR CONNECTION 6



- 1. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
- 2. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
- 3. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
- 4. USE SOLID COPPER WIRE AND MECHANICAL 2-HOLE LUG FOR ALL EXTERIOR GROUNDING.

GROUND CONNECTION 4





 $|\mathbf{T} - \mathbf{Mobile}|$



10590 WEST OCEAN AIR DRIVE SUITE 300 SAN DIEGO, CA 92130



MORRISON HERSHFIELD 600 STEWART STREET, SUITE 200

Tel: 206.268.7370 MH PROJECT NUMBER: 202131600.33

_						
REV.	DATE	ISSUED FOR	BY			
Α	08/21/20	90% REVIEW	ВА			
0	03/23/21	100% CONSTRUCTION	LW			
1	06/18/21	100% CONSTRUCTION	LW			
2	08/13/21	100% CONSTRUCTION	MLG			
3	04/14/22	100% CONSTRUCTION	MLG			
4	06/24/22	100% CONSTRUCTION	RB			
5	11/21/22	100% CONSTRUCTION	SJ			
6	02/14/23	100% CONSTRUCTION	ED			
7	07/21/23	100% CONSTRUCTION	MLG			
SET NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY DESIGN PROFESSIONAL AND STAMPED APPROVED BY MUNICIPALITY						

LICENSURE:

CM371 RSMWD PUMP **STATION**

T-MOBILE SITE I.D.

LA02371A

SITE ADDRESS:

29634 OSO PKWY RANCHO SANTA MAGARITA, CA 92688

GROUNDING DETAILS

SHEET NUMBER:

G-1

TYPICAL GROUNDING DIAGRAM 2

TYPICAL CONDUIT SUPPORT