

HYBRID & COAX CABLES

POWER/GROUNDING

FIBER

ANTENNAS

RR/HBBU

PENETRATIONS



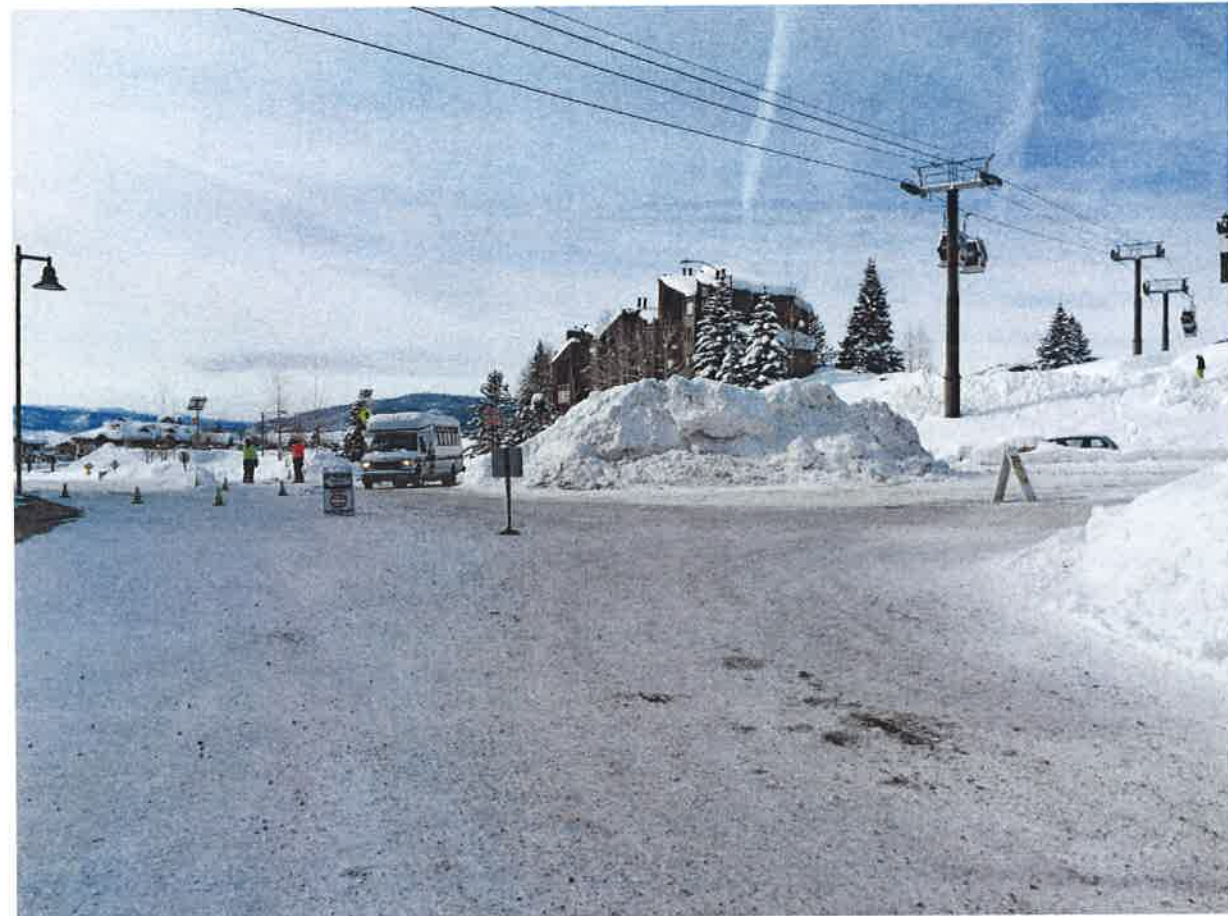
SITE NAME: **CO1 TELEMAR**  
PROJECT: **NEW BUILD - DAS CONSTRUCTION DRAWINGS**  
SITE ADDRESS: **2305 MOUNT WERNER CIRCLE  
STEAMBOAT SPRINGS, CO 80487**

**verizon**

VERIZON WIRELESS SERVICES  
3131 S. VAUGHN WAY, SUITE 500  
AURORA, CO 80014

PROJECT INFORMATION  
SITE NAME  
**CO1 TELEMAR**  
2305 MOUNT WERNER CIRCLE  
STEAMBOAT SPRINGS, CO 80487

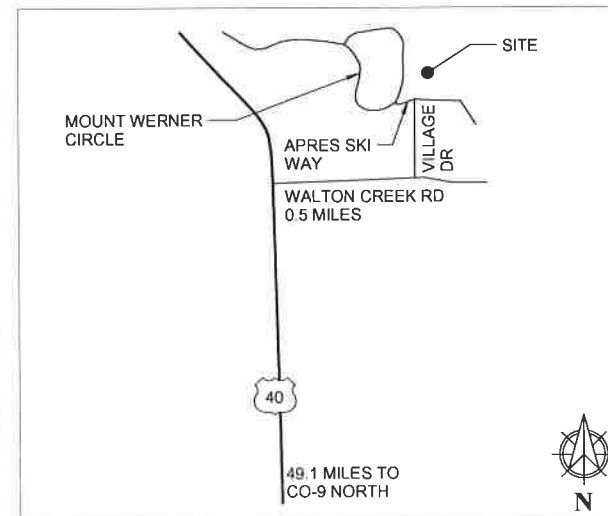
PHOTO SHOWING EXISTING CONDITIONS



PROJECT DESCRIPTION

- INSTALL NEW EQUIPMENT IN EXISTING EQUIPMENT ROOM
- TIE INTO EXISTING DAS SYSTEM
- NEW FIBER IN EXISTING FIBER ROUTE

VICINITY MAP



DIRECTIONS

FROM DENVER:

- I-25 TO 6TH AVENUE WEST (7.6 MILES)
- EXIT ONTO I-70 WEST (55.3 MILES)
- EXIT 205 FOR CO-9 NORTH (37.3 MILES)
- LEFT ONTO US-40 W/PARK AVENUE (49.1 MILES)
- RIGHT ONTO WALTON CREEK ROAD (0.5 MILES)
- LEFT ONTO VILLAGE DRIVE (0.3 MILES)
- LEFT ONTO APRES SKI WAY
- AT TRAFFIC CIRCLE, FIRST EXIT ONTO MT WERNER CIRCLE
- SITE ON THE RIGHT 0.2 MILES DOWN MT WERNER CIRCLE

PROJECT DATA

JURISDICTION	CITY OF STEAMBOAT SPRINGS / ROUTT COUNTY
APN	211077007
ZONING DESIGNATION	G-2
EXISTING BUILDING	
OCCUPANCY GROUP	S-2
CONSTRUCTION TYPE	II-A
FULLY SPRINKLERED	NO
NO. STORIES	2
EQUIPMENT ROOM	
OCCUPANCY GROUP	S-2
CONSTRUCTION TYPE	II-A
FULLY SPRINKLERED	NO
NO. STORIES	1
GOVERNING CODES: 2009 IBC, 2009 IFC, 2014 NEC, 2009 IMC	
A.D.A. COMPLIANCE THIS FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION	

DRAWING INDEX

SHEET	DESCRIPTION
T1.00	TITLE SHEET
G1.00	GENERAL NOTES
A1.00	SITE PLAN
A2.00	EQUIPMENT SHELTER FLOOR PLAN
A2.10	EQUIPMENT ROOM RCP
A4.00	DETAILS
E1.00	PANEL SCHEDULE & ONE LINE DIAGRAM
E2.00	ELECTRIC PLAN
E3.00	GROUNDING PLAN

**RCRBD  
RECORD SET**

**RCRBD  
RECORD SET  
ELECTRICAL**

PJ2192-1  
Fire Prevention  
In: 11/8/2016  
Out: 11/11/2016

Any clean agent work requires plans  
and a permit to be submitted to Fire  
Prevention. Visit  
[www.steamboatsprings.net](http://www.steamboatsprings.net)

PROJECT TEAM

<b>OWNER</b> STEAMBOAT SKI & RESORT CORP. 2305 MT WERNER CIR STEAMBOAT SPRINGS, CO 80487	<b>CLIENT</b> VERIZON WIRELESS CONSTRUCTION ENGINEER JASON SHELLEDY 3131 S. VAUGHN WAY SUITE 550 AURORA CO, 80014 CELL: 970.646.1283	<b>RF CONTACT</b> VERIZON WIRELESS KWASI ADDO-DONKOH 3131 S. VAUGHN WAY SUITE 550 AURORA, CO 80014 PHONE: 303.873.2719	<b>SITE ACQUISITIONIST</b> CLOSSER CONSULTING LLC IRENE COOKE 1599 CO. RD. 5221 P.O. BOX 423 TABERNASH, CO 80478 OFFICE: 303.256.4079 CELL: 970.531.0831	<b>ARCHITECT</b> CHARLES STECKLY, AIA CSAi 5935 S. ZANG STREET SUITE 280 LITTLETON, CO 80127 CELL: 303.210.8972 OFFICE: 303.932.9974	<b>CIVIL SURVEYOR</b> ALTURA LAND CONSULTANTS 6551 SOUTH REVERE PARKWAY SUITE 165 ENGLEWOOD, CO 80111 PHONE: 720.488.1306 FAX: 720.488.1306	<b>ELECTRICAL</b> DENNIS GREVEL, PE 12311 WEST PRENTICE PLACE LITTLETON, CO 80127 PHONE: 303.478.3337
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1st REVIEW RK 2nd REVIEW TN

CHARLES  
STECKLY

ARCHITECTURE

5935 SOUTH ZANG STREET, SUITE 280  
LITTLETON, COLORADO 80127  
OFFICE: 303.932.9974



TITLE SHEET

**T1.00**



HYBRID & COAX CABLES

POWER/GROUNDING

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ANTENNAS

RR/HBBU

PENETRATIONS

NEW WORK COLOR LEGEND

@	AT	H.M.	HOLLOW METAL
*	CENTERLINE	HORZ.	HORIZONTAL
Ø	DEGREES	HR.	HOUR
	DIAMETER	HT.	HEIGHT
APPROX. ARCH. A.F.F. A.F.G.	APPROXIMATE ARCHITECTURAL ABOVE FINISH FLOOR ABOVE FINISH GRADE	INT.	INTERIOR
BLDG. B.O.	BUILDING BOTTOM OF	MAX. MECH. MTL. MFGR. MIN.	MAXIMUM MECHANICAL METAL MANUFACTURER MINIMUM
CLG. COL. CONC.	CEILING COLUMN CONCRETE	N.T.S.	NOT TO SCALE
DBL. DIA. DIM. DN. DWG.	DOUBLE DIAMETER DIMENSION DOWN DRAWING	O.C. O.D.	ON CENTER OUTSIDE DIAMETER
(E) EA. ELEV. ELEC. EQ. EXT.	EXISTING EACH ELEVATION ELECTRICAL EQUAL EXTERIOR	SHTG. SIM. SPEC. S.S. STL. STRUCT.	SHEATHING SIMILAR SPECIFICATION STAINLESS STEEL STEEL STRUCTURAL
F.E. FIN. FLR. FUT.	FIRE EXTINGUISHER FINISH FLOOR FUTURE	T.O. TYP.	TOP OF TYPICAL
GA. GALV. GWB.	GAUGE GALVANIZED GYPSUM WALLBOARD	U.N.O.	UNLESS NOTED OTHERWISE
		V.I.F.	VERIFY IN FIELD
		W/	WITH

SYMBOLS LEGEND

-----	EASEMENT	
-----	LEASE LINE	
-----	PROPERTY LINE	
	WOODEN FENCE	
----- X -----	CHAIN LINK FENCE	
----- OH -----	(E) OVERHEAD UTILITY	
----- OHE -----	(E) OVERHEAD ELEC.	
----- SS -----	(E) SANITARY SEWER	
----- W -----	(E) WATER LINE	
----- T -----	(E) TELCO CABLE	
----- FIBER -----	(E) FIBER CABLE	
----- E -----	(E) ELECTRICAL	
----- COAX -----	(E) COAX CABLE	

NEW WORK COLOR LEGEND

HYBRID & COAX CABLES	
DC POWER	
FIBER	
ANTENNAS	
RRH/BBU	
PENETRATIONS	

4 - LEGEND

BATTERY SPECIFICATION:

(MARATHON M12V155FT WET, NON-SPILLABLE) EACH CELL HAS AN IMMOBILIZE ELECTROLYTE CAPACITY OF 2 GALLONS EACH. (12) CELLS IN THIS OCCUPANCY RESULTING IN AN AGGREGATE ELECTROLYTE VOLUME OF 24 GALLONS.

A. STATIONARY LEAD-ACID BATTERY SYSTEM AND VALVE-REGULATED LEAD-ACID BATTERY SYSTEMS CONTAINING MORE THAN 50 GALLONS OF ELECTROLYTE SHALL COMPLY WITH IFC 608.

RCRBD  
RECORD SET

3 - BATTERY HAZMAT REVIEW

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

THESE DRAWINGS ARE TO SCALE WHEN PLOTTED ON 11X17 SHEET.

CALL BEFORE YOU DIG - COLORADO LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE.

THESE DRAWINGS MAY NOT SHOW ALL UNDERGROUND PIPING AND UTILITIES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE DURING ALL EXCAVATION AND OTHER CONSTRUCTION ACTIVITIES.

UTILITY NOTIFICATION CENTER OF COLORADO - 1-800-922-1987

VERIZON WIRELESS IS RESPONSIBLE FOR ALL UTILITY LOCATES AND UTILITY RELOCATIONS REQUIRED FOR THIS INSTALLATION. VERIZON WIRELESS WILL SCHEDULE AND COORDINATE ALL WORK WITH THE OWNER TO ENSURE NO DISRUPTION TO OWNERS OPERATIONS.

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

2 - GENERAL CONTRACTOR NOTES

1. DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE, AND THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANYTHING ELSE DEEMED NECESSARY TO COMPLETE INSTALLATIONS AS DESCRIBED HEREIN. REFER TO BID PACKAGE FOR MORE DATA.

2. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS, FIELD CONDITIONS AND CONFIRM THAT THE PROJECT MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY ERRORS, OMISSIONS, OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/CONSTRUCTION ENGINEER IN WRITING.

3. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S, VENDOR'S, & VERIZON WIRELESS SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE NOTIFY CONSTRUCTION ENGINEER.

6. ALL WORK PERFORMED ON PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

7. THE STRUCTURAL COMPONENTS OF THIS PROJECT SITE/FACILITY ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.

8. NEW TOWERS ARE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION SUBCONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF PERSONNEL AND PROPERTY FROM HAZARDOUS EXPOSURE TO OVERHEAD DANGERS.

9. GENERAL CONTRACTOR SHALL PROVIDE AT THE PROJECT SITE A FULL SET OF PERMITTED CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

10. DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR SITUATIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE SCOPE OF WORK.

11. THE FACILITY IS CELLULAR RADIO EQUIPMENT, ANTENNAS, & SUPPORTING UTILITIES.

12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION UPON COMPLETION OF WORK. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.

13. CONTRACTOR SHALL ENSURE THE GENERAL WORK AREA IS KEPT CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

14. THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE CONSTRUCTION ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL.

15. SPECIAL INSPECTION TESTING REQUIRING SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT SPECIAL INSPECTOR PER SECTION 1704 OF THE INTERNATIONAL BUILDING CODE (IBC) FOR ITEMS NOTED ON S1.00 IF INCLUDED IN CONSTRUCTION DOCUMENTS. THE INSPECTOR SHALL BE HIRED BY THE CONTRACTOR & COORDINATION SHALL BE ARRANGED BY THE CONTRACTOR FOR REQUIRED INSPECTIONS.



UNDERGROUND SERVICE ALERT  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
WWW.UNCC.ORG

3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

1 - GENERAL NOTES

verizon

VERIZON WIRELESS SERVICES  
3131 S. VAUGHN WAY, SUITE 500  
AURORA, CO 80014

PROJECT INFORMATION  
SITE NAME

CO1 TELEMAR

2305 MOUNT WERNER CIRCLE  
STEAMBOAT SPRINGS, CO 80487

CONSULTANT

A	07/26/16	CD REVIEW	JTD
B	09/21/16	CLIENT COMMENTS	AMC
0	09/28/16	CD ISSUE	KMS

1st REVIEW RK 2nd REVIEW TN

CHARLES  
STECKLY

ARCHITECTURE

5935 SOUTH ZANG STREET, SUITE 280  
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OFFICE: 303.932.9974



GENERAL NOTES

G1.00

HYBRID & COAX CABLES

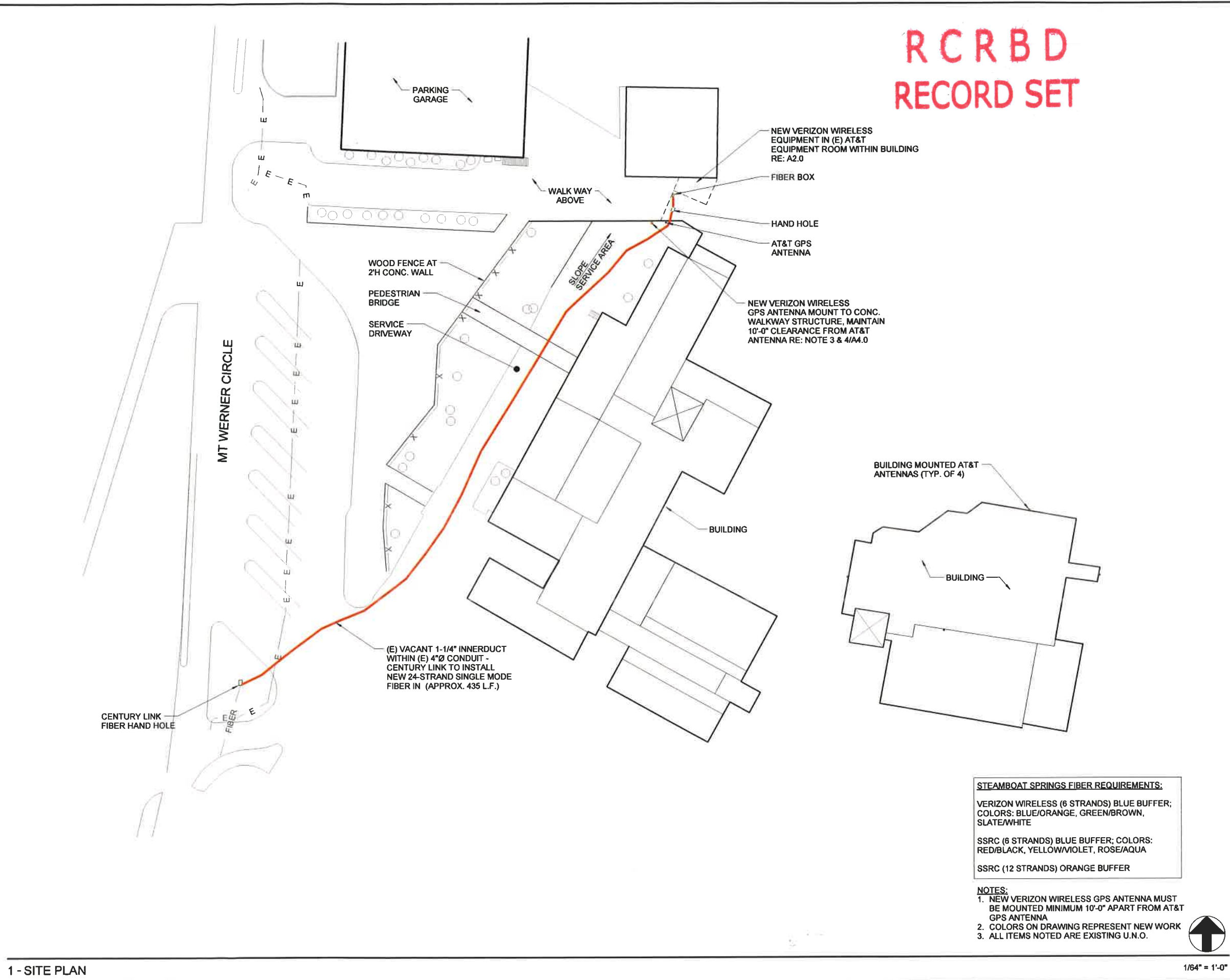
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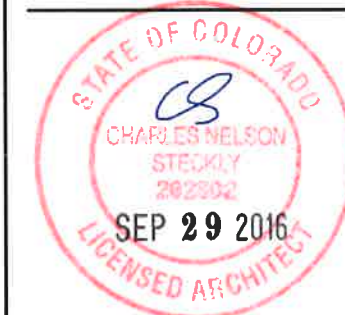
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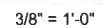
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**SITE PLAN**

**A1.00**





## 1 - EQUIPMENT ROOM FLOOR PLAN

# RCRBD RECORD SET



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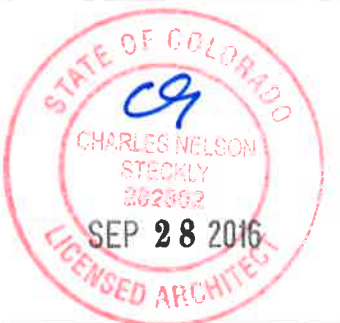
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EQUIPMENT ROOM RCP

**A2.10**

HYBRID & COAX CABLES

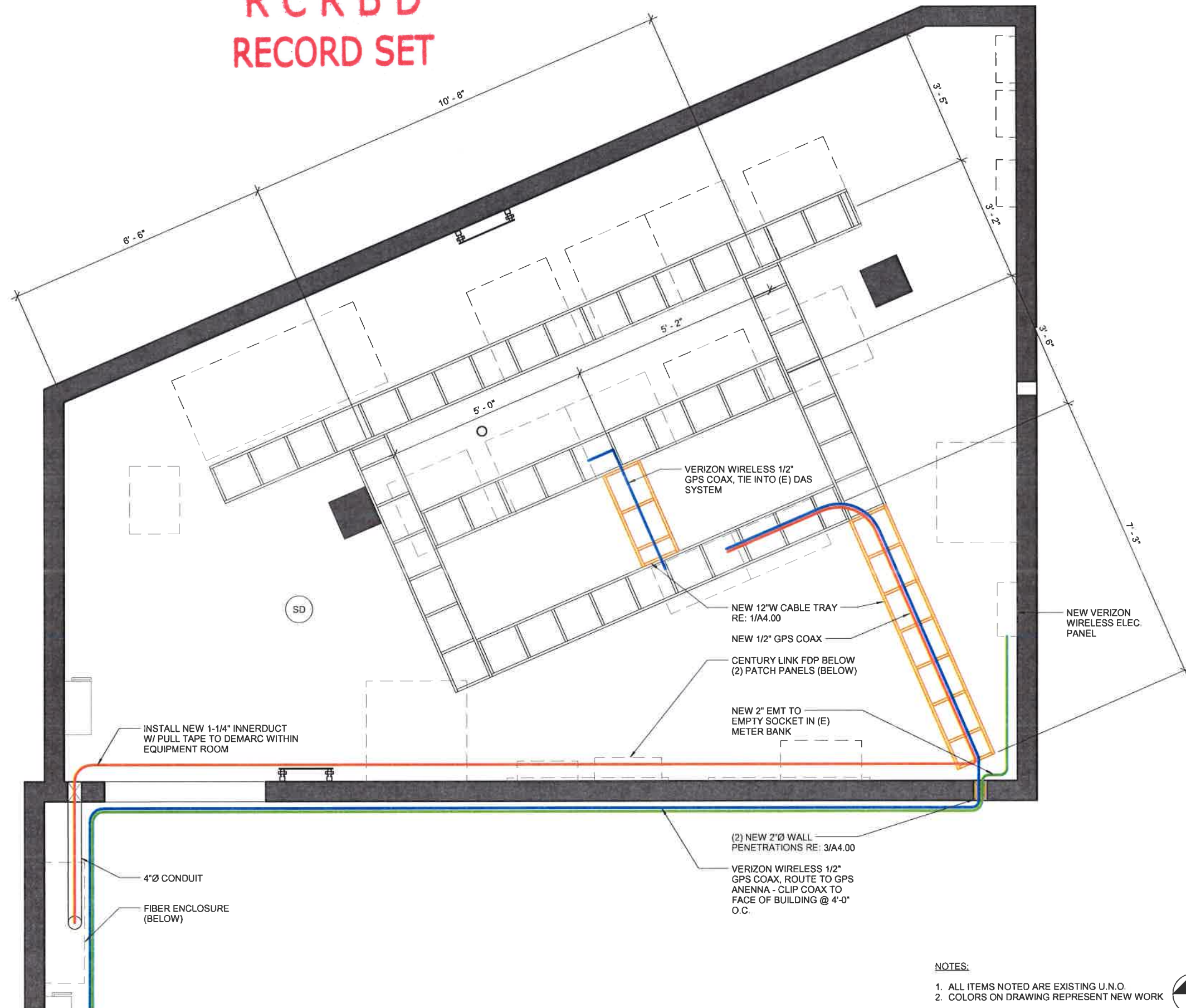
POWER/GROUNDING

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## NOTES:

- ALL ITEMS NOTED ARE EXISTING U.N.O.
- COLORS ON DRAWING REPRESENT NEW WORK

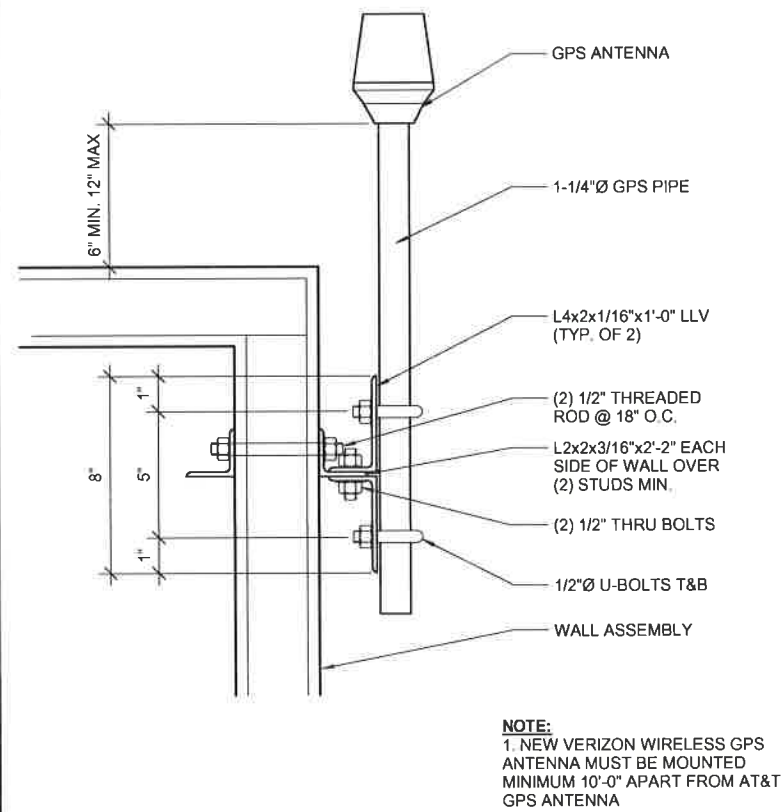


3/8" = 1'-0"

1 - EQUIPMENT ROOM REFLECTED CEILING PLAN



5 - NOT USED

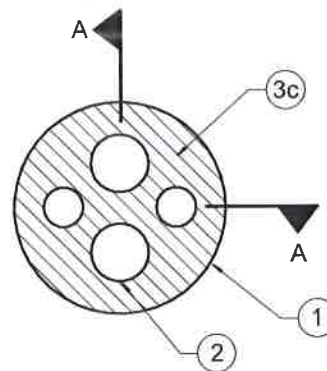


4 - GPS ANTENNA-WALL MOUNT DETAIL

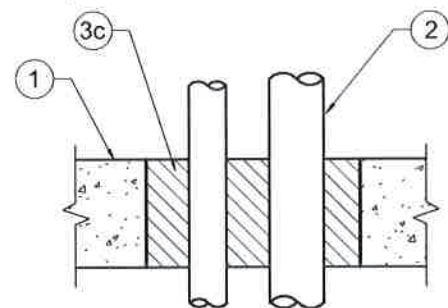
1 1/2" = 1'-0"

ULcUL SYSTEM NO. C-AJ-1062  
MULTIPLE STEEL CONDUIT THROUGH 2-HR. CONCRETE WALL/FLOORF-RATING - 2HR.  
T-RATING - 0HR.

FRONT VIEW



SECTION A-A



1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAM OF OPENING 15 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. METALLIC PIPES - FOUR OF THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:

- A. NOM 4 IN. DIAM (OR SMALLER) RIGID GALV STEEL CONDUIT.  
B. NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALIC TUBING.  
C. NOM 4 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.  
D. NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
E. NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

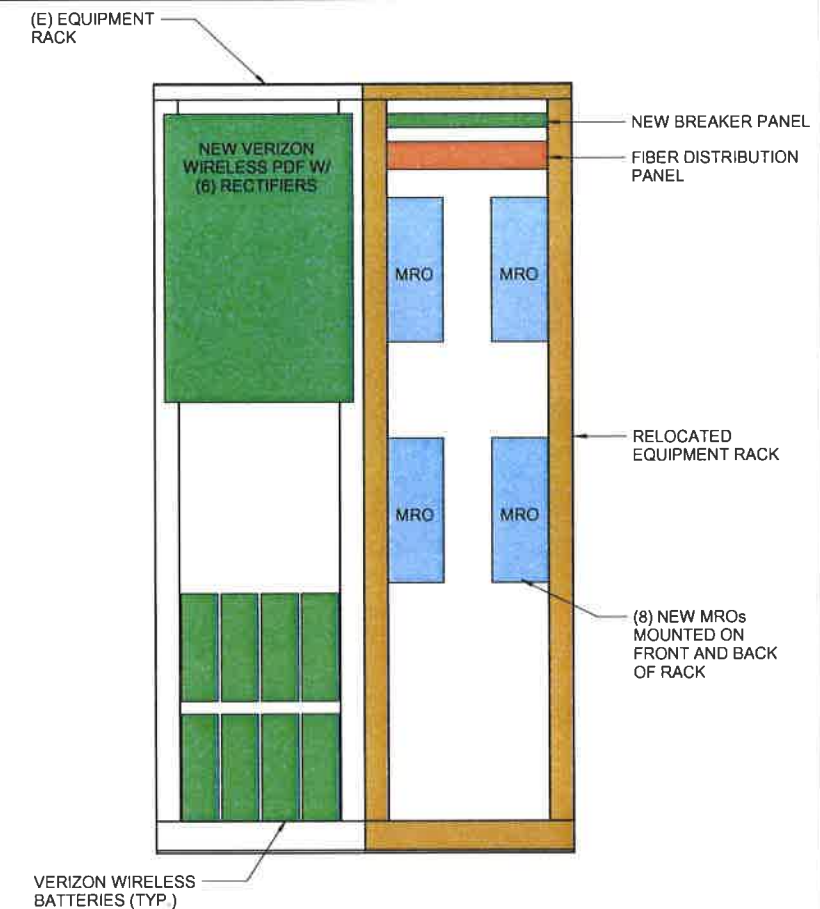
OF THE FOUR PIPES OR CONDUITS, ONLY TWO OF THE PIPES OR CONDUITS MAY HAVE A NOMINAL DIAMETER GREATER THAN 2 IN. A SEPARATION OF 2 TO 3 IN. IS REQUIRED BETWEEN THE PIPES AND CONDUIT AND BETWEEN THE PIPES AND CONDUIT AND THE PERIPHERY OF THE OPENING.

3. FIRESTOP SYSTEM -THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

- A. FORMS-(NOT SHOWN)-USED AS A FORM TO PREVENT LEAKAGE OF FILL MATERIAL DURING INSTALLATION. FORMS TO BE A RIGID SHEET MATERIAL CUT TO FIT THE CONTOUR OF THE PENETRATING ITEM AND FASTENED TO THE UNDERSIDE OF FLOOR OR BOTH SIDES OF WALL. FORMS TO BE REMOVED AFTER FILL MATERIAL HAS CURED.  
B. SEALING MATERIAL-(NOT SHOWN)-LOOSE CERAMIC FIBER FIRMLY PACKED BETWEEN THE PIPES OR CONDUITS AND THE FORMING MATERIAL.  
C. FILL, VOID OR CAVITY MATERIAL\*-MORTAR-MIN 4-1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. TYPE KBS MORTAR MIXED WITH WATER AT A RATE OF 1.6 PARTS DRY MIXTURE TO 1.0 PART WATER BY WEIGHT IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. TYPE FLAME SAFE MORTAR MIXED WITH WATER AT A RATE OF 1.1 PARTS DRY MIXTURE TO 1.0 PART WATER BY WEIGHT IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. INTERNATIONAL PROTECTIVE COATINGS CORP.- TYPES KBS MORTAR AND FLAME SAFE MORTAR \*BEARING THE UL CLASSIFICATION MARKING

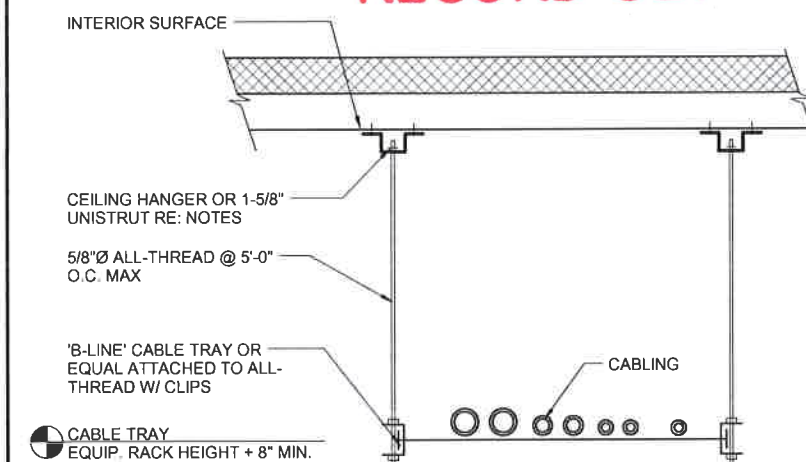
3 - CONCRETE WALL PENETRATION FIRESTOPPING DETAIL

N.T.S.



2 - RACK ELEVATIONS

1/2" = 1'-0"

RCRBD  
RECORD SET

## FASTENING NOTES:

1. WOOD JOISTS: ATTACH HANGER TO WOOD JOIST WITH 1/4"Ø X 3" EMBED LAG SCREWS TO EACH JOIST  
2. STEEL JOISTS: ATTACH HANGER TO JOIST WITH #12 TEK TO EACH JOIST  
3. CONCRETE: ATTACH HANGER TO CEILING WITH 1/4" EXPANSION ANCHORS

1 - CABLE LADDER DETAIL

N.T.S.

verizon

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DETAILS

A4.00

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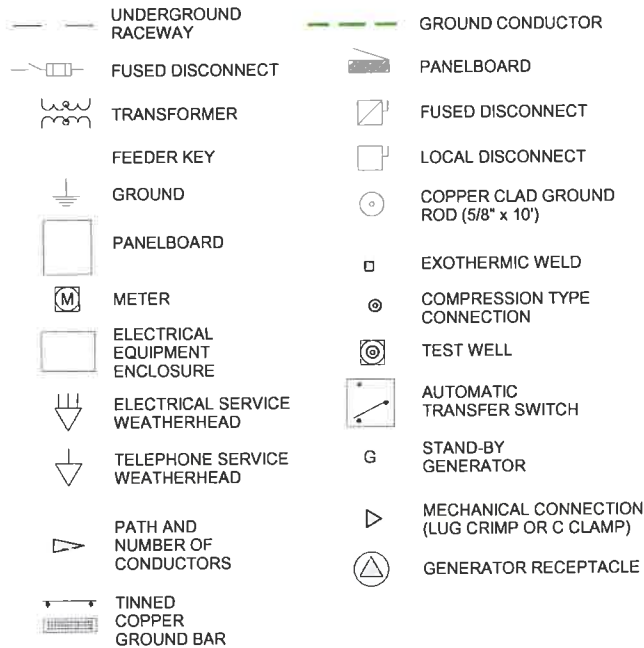
ANTENNAS

RR/HBBU

PENETRATIONS

- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, AND NOT TO BE SCALED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.
- ALL CONDUIT INSTALLED SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES AND O.S.H.A.
- ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER THE DATE OF JOB COMPLETION. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE.
- PROVIDE THE OWNER WITH ONE SET OF COMPLETE DIMENSIONS AND CIRCUITS, WITHIN 10 WORKING DAYS OF PROJECT COMPLETION ELECTRICAL "AS BUILT" DRAWINGS, SHOWING ACTUAL.
- ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO PROJECT MANAGER AT JOB COMPLETION.
- USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE. ALL CONDUCTORS SHALL BE COPPER.
- THE EXTERIOR GROUND RING SHALL BE TESTED PER VERIZON WIRELESS SPECIFICATIONS AND SHALL HAVE A RESISTANCE TO EARTH OF 5 OHMS OR LESS. IF NOT NOTIFY ENGINEER.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.

#### 4 - ELECTRICAL NOTES



#### 3 - ELECTRIC SYMBOLS

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- IN DRILLING HOLES INTO CONCRETE (WHETHER FOR FASTENING OR ANCHORING PURPOSES OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC.) IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND REBARS WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
- LOCATION OF TENDONS AND RE-BARS ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY, OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING STEEL TENDONS.
- PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH APPLICABLE LOCAL BUILDING CODES. USING U.L. RATED MATERIALS.
- ELECTRICAL CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOK-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS ON ALL NON-SPECIFIED ORIGINAL MATERIALS AND EQUIPMENT, TO PROJECT MANAGER PRIOR TO COMMENCEMENT OF THE WORK.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY AND SHORT CIRCUIT, AS WELL AS, GROUNDING TEST. GROUNDING TEST SHALL BE PERFORMED BY INDEPENDENT TESTING AGENCY, WITH WRITTEN REPORT SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL.
- CLEAN PREMISES DAILY OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK PREMISES IN A COMPLETE AND UNDAMAGED CONDITION.
- ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WITH POLYSEAM SEALANT.
- ALL #2 TINNED BARE COPPER DOWNLEADS TO BE PROTECTED BY 1/2" P.V.C. PIPE AND SECURED.
- COMPRESSION FITTINGS TO BE USED ON ALL CONDUITS (NO SET SCREWS).
- ALL #6 STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG, ATTACHED WITH NUTS, BOLTS AND STAR WASHERS TYPICAL AND NO-OX GREASE BETWEEN LUG AND BUS BAR.
- ALL ABOVE GROUND CONDUIT SHALL BE EMT GALVANIZED CONDUIT WITH WEATHERPROOF FITTINGS.
- LABEL PANEL WITH AVAILABLE FAULT VALUE (PERMANENT LABEL).

\* DATE OF JOB COMPLETION SHALL BE THE DATE ON THE CONTRACTOR'S "NOTICE OF COMPLETION" SUBMITTED TO THE OWNER.

#### PANEL: 'VERIZON WIRELESS'

120/240 VOLTS 1 PHASE 3 WIRES, SN, 200 AMP BUS 200 AMP MAIN MCB  
10,000 A.I.C. RATING (MINIMUM), NEMA 3R ENCLOSURE, SURFACE ENCLOSURE

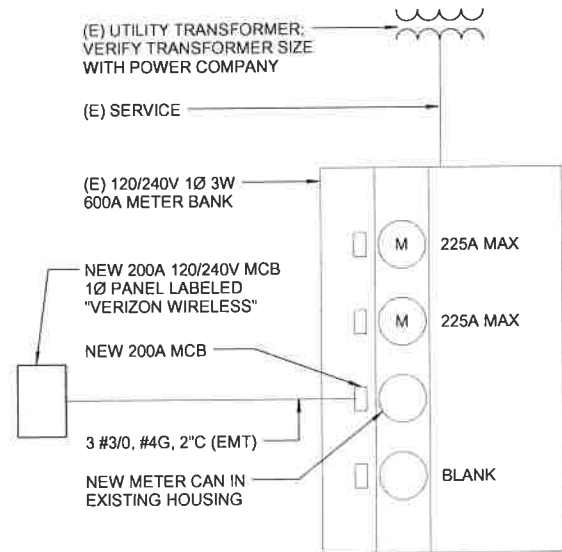
DESCRIPTION	WIRE	BKR	POLE	CKT	VA	Ø	VA	CKT	POLE	BKR	WIRE	DESCRIPTION
RECT 1	#10	30	2	1	1040	A	1040	2	2	30	#10	RECT 6
				3	1040	B	1040	4				
RECT 2	#10	30	2	5	1040	A	-	6				
				7	1040	B	-	8				
RECT 3	#10	30	2	9	1040	A	-	10				
				11	1040	B	-	12				
RECT 4	#10	30	2	13	1040	A	-	14				
				15	1040	B	-	16				
RECT 5	#10	30	2	17	1040	A	-	18				
				19	1040	B	-	20				

PHASE A: 6240 VOLTAMPS PHASE B: 6240 VOLTAMPS

#### PANEL LOAD CALCULATIONS

LIGHTS	0	VOLTAMPS X 1.25 =	0	VOLTAMPS
RECEPTACLES- 1ST 10KVA	0	VOLTAMPS X 1.00 =	0	VOLTAMPS
LARGEST MOTOR	0	VOLTAMPS X 1.25 =	0	VOLTAMPS
REMAINDER MOTOR	0	VOLTAMPS X 1.00 =	0	VOLTAMPS
RECTIFIER	12480	VOLTAMPS X 1.00 =	12480	VOLTAMPS
OTHER	0	VOLTAMPS X 1.00 =	0	VOLTAMPS
			12480	TOTAL DEMAND
			52	AMPS, 1Ø, 3W

#### 2 - PANEL SCHEDULE



NOTE: THE INITIAL DRAWINGS PLANNED FOR THE NEW VERIZON WIRELESS CONNECTION

#### 1 - ONE LINE DIAGRAM

**verizon**

VERIZON WIRELESS SERVICES  
3131 S. VAUGHN WAY, SUITE 500  
AURORA, CO 80014

PROJECT INFORMATION  
SITE NAME

**CO1 TELEMAR**

2305 MOUNT WERNER CIRCLE  
STEAMBOAT SPRINGS, CO 80487

CONSULTANT

**DENNIS GREVEL, P.E.**

12311 WEST PRENTICE PLACE  
LITTLETON, CO 80127  
PHONE: 303.478.3337

A 07/26/16 CD REVIEW JTD  
B 09/21/16 CLIENT COMMENTS AMC  
C 09/28/16 CD ISSUE KMS

**R C R B D**  
**RECORD SET**  
**ELECTRICAL**

1st REVIEW RK 2nd REVIEW TN

**CHARLES STECKLY**  
**ARCHITECTURE**  
5935 SOUTH ZANG STREET, SUITE 280  
LITTLETON, COLORADO 80127  
OFFICE: 303.932.9974

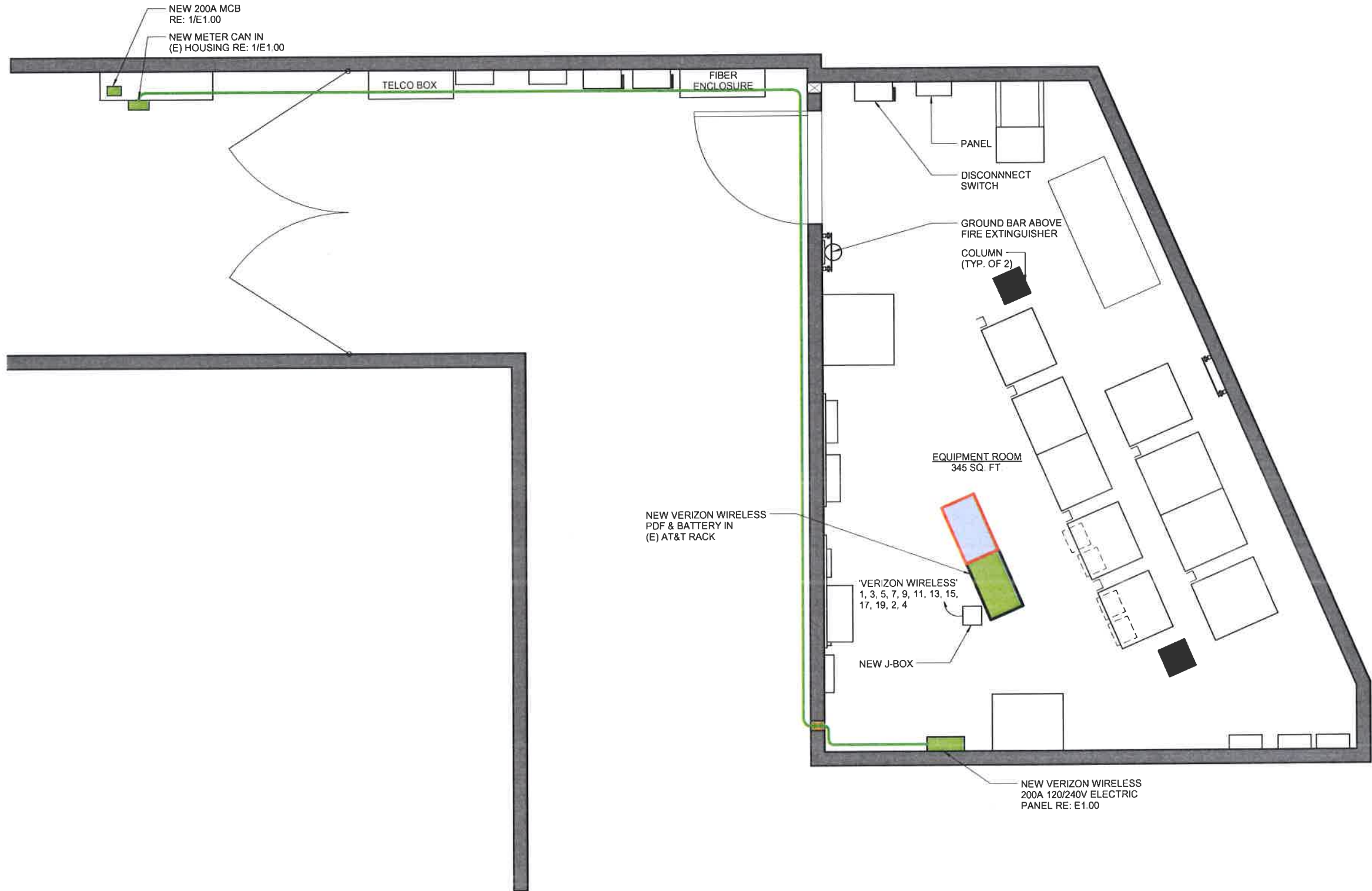


**PANEL SCHEDULE & ONE LINE DIAGRAM**

**E1.00**



HYBRID & COAX CABLES  
POWER/GROUNDING  
FIBER  
ANTENNAS  
RR/HBBU  
PENETRATIONS



- NOTES:
- 1. ALL ITEMS NOTED ARE EXISTING U.N.O.
  - 2. COLORS ON DRAWING REPRESENT NEW WORK



1/4" = 1'-0"

1 - ELECTRIC PLAN



VERIZON WIRELESS SERVICES  
3131 S. VAUGHN WAY, SUITE 500  
AURORA, CO 80014

PROJECT INFORMATION  
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2305 MOUNT WERNER CIRCLE  
STEAMBOAT SPRINGS, CO 80487

CONSULTANT

DENNIS GREVEL, P.E.

12311 WEST PRENTICE PLACE  
LITTLETON, CO 80127  
PHONE: 303.478.3337

A	07/26/16	CD REVIEW	JTD
B	09/21/16	CLIENT COMMENTS	AMC
O	09/28/16	CD ISSUE	KMS

R C R B D  
RECORD SET  
ELECTRICAL

1st REVIEW RK 2nd REVIEW TN

CHARLES  
STECKLY  
ARCHITECTURE  
5935 SOUTH ZANG STREET, SUITE 280  
LITTLETON, COLORADO 80127  
OFFICE: 303.932.9974



ELECTRIC PLAN

E2.00



HYBRID & COAX CABLES

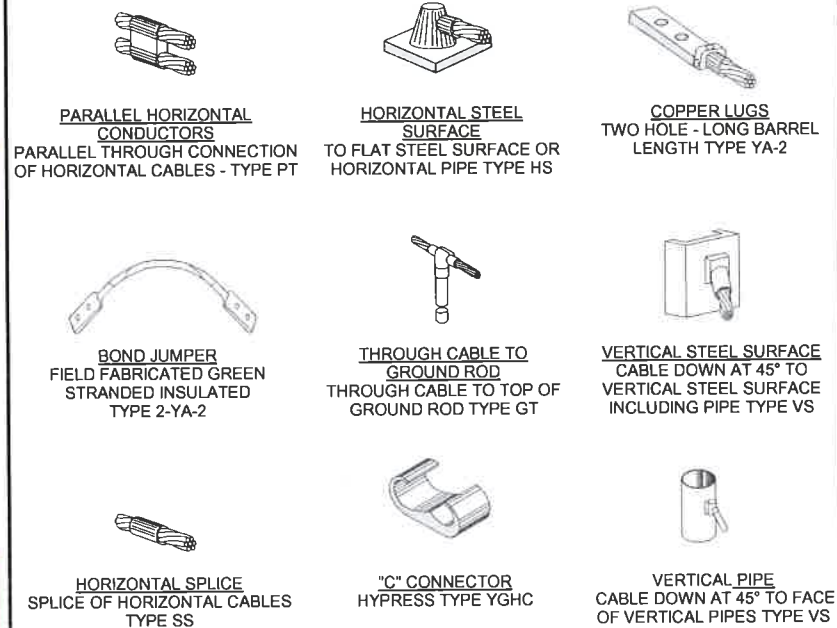
POWER/GROUNDING

FIBER

ANTENNAS

RR/IBBU

PENETRATIONS



### 3 - CAD WELD DETAILS



### 2 - GROUNDING LEGEND



### 1 - GROUNDING PLAN

#### NOTES:

1. ALL ITEMS NOTED ARE EXISTING U.N.O.
2. COLORS ON DRAWING REPRESENT NEW WORK

**verizon**

VERIZON WIRELESS SERVICES  
3131 S. VAUGHN WAY, SUITE 500  
AURORA, CO 80014

#### PROJECT INFORMATION

SITE NAME

#### CO1 TELEMAR

2305 MOUNT WERNER CIRCLE  
STEAMBOAT SPRINGS, CO 80487

#### CONSULTANT

#### DENNIS GREVEL, P.E.

12311 WEST PRENTICE PLACE  
LITTLETON, CO 80127  
PHONE: 303.478.3337

A	07/26/16	CD REVIEW	JTD
B	09/21/16	CLIENT COMMENTS	AMC
O	09/28/16	CD ISSUE	KMS

**R C R B D**

**RECORD SET**

**ELECTRICAL**

1st REVIEW RK 2nd REVIEW TN

**CHARLES STECKLY**

#### ARCHITECTURE

5935 SOUTH ZANG STREET, SUITE 280  
LITTLETON, COLORADO 80127  
OFFICE: 303.932.9974



#### GROUNDING PLAN

**E3.00**



3/8" = 1'-0"