GENERAL NOTES:
1. THIS PLAN WAS PREPARED USING AN APPROVED SURVEY PLAN ENTI TLED "BOUNDARY DETAILS" BY RFL CONSULTING, DATED 03/27/17.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF THE GOVERNMENTAL JURISDICTION IN WHICH THE WORK IS TO BE PERFORMED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PERMITS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS OR PROBLEMS PRIOR TO THE SUBMISSION OF BID OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONFLICTS OR PROBLEMS.
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ELECTRICAL NOTES:
1. CONTRACTOR SHALL REMOVE ALL MATERIALS FROM THE SITE. ALL MATERIALS MUST BE STORED IN A SECURE LOCATION."NO STORING MATERIALS ON THE SITE." RE-INSTALL MATERIALS TO THE SATISFACTION OF THE CONTRACTOR when ready.
2. LOCATION OF ELECTRICAL PANEL, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE MODIFIED AS NECESSARY TO ACCOMMODATE LOCAL CONDITIONS.
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GROUNDING NOTES:
1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
2. ALL TELECOMMUNICATIONS CABLING SHALL BE PROTECTED AGAINST UNINTENTIONAL GROUNDING.
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ANCHOR TO WALL WITH (2) HILTI 3/8"X3-1/2" (EMBEDMENT) HIT threaded rod with Hit HY-150 injection adhesive.

PROPOSED CHASE CONCEALMENT (PAINT TO MATCH EXISTING BUILDING)

EMT CONDUIT FOR POWER
EMT CONDUIT FOR FIBER
CONDUIT CLAMP
EMT CONDUIT FOR GENERATOR PLUG
EMT CONDUIT FOR GROUND
P1550 UNISTRUT (8"X4" O.C.)

PROPOSED 2" CONDUIT CLAMP
PROPOSED 2" CONDUIT FOR FIBER

PROPOSED COOPER DURA BLOK DB10-36 ROOFTOP SUPPORT

PROPOSED 4" CONDUIT CLAMP
PROPOSED 4" EMT CONDUIT FOR HYBRIFLEX CABLE

NOTES:
1. FOR EMT CONDUIT, MAX PROPOSED SPACING BETWEEN SLEEPERS IS 10' O.C.
2. FOR CONDUIT, MAX PROPOSED SPACING BETWEEN SLEEPERS IS 7' O.C.

FIBER & POWER CONDUIT DETAIL

NOTE:
1. ALL SUPPORT/ANCHOR HARDWARE TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
2. VERIFY PLACEMENT DOES NOT BLOCK EXISTING WINDOWS ON BUILDING.

WALL MOUNTED CONDUIT DETAIL

BACKFILL (SAND OR NATIVE SOIL) PER ASTM STANDARDS

3"Ø SCH 40 PVC POWER CONDUIT (AS REQUIRED)

UTILITY WARNING TAPE

UNDISTURBED SOIL

FINISHED GRADE OR PAVING. MATCH SLOPE AND THICKNESS OF EXISTING CONDITIONS

3/8" SCH 40 PVC POWER CONDUIT (AS REQUIRED)

4" MIN. TO SECONDARY ELECTRIC
12" MIN. TO PRIMARY ELECTRIC

UTILITY TRENCH DETAIL

NOTE:
1. SEPARATION DIMENSIONS TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

PULLBOX DETAIL

MADE: HUBBELL 24"X36" FRP STRAIGHT WALL
MODEL: B1024330A

NOTE:
1. CONTRACTOR TO ORDER HANDHOLE BOX WITH THE CORRECT NUMBER AND SIZE OF KNOCKOUTS NEEDED.
2. VERIFY DIMENSIONS OF UNIT.

HYBRIFLEX CONDUIT DETAIL

NOTE:
1. FOR HYBRID CABLE RUNS OVER 262', THE CONTRACTOR IS TO ADD BRIDGE KIT MODELS RM-3155-WB-KIT & 3155-WB-KIT.

PULLBOX DETAIL

NOTE:
1. CONTRACTOR TO ORDER HANDHOLE BOX WITH THE CORRECT NUMBER AND SIZE OF KNOCKOUTS NEEDED.
2. VERIFY DIMENSIONS OF UNIT.
PROPOSED LADDER CAGE

TOP OF PENTHOUSE
(CONTRACTOR TO VERIFY EXACT HEIGHT PRIOR TO INSTALLATION)

1'-8"

2'-4"

3/4" = 1'-0"

TOP OF ROOF

CAGED LADDER ELEVATION DETAILS

GRAPHIC SCALE

1'-0"

3/4"

1'-0"

3/4"

1'-0"

3/4"

1'-0"

3/4"

1'-0"

3/4"

1'-0"

3/4"

1'-0"

3/4"

1'-0"

3/4"
CAUTION AND GUIDELINES SIGNS SHOULD BE INSTALLED AT THE FRONT OF THE BETA & GAMMA SECTOR

CAUTION AND GUIDELINES SIGNS SHOULD BE INSTALLED AT THE BACK OF THE ALPHA SECTOR

FCC NOTICE AND GUIDELINES SIGNS SHOULD BE INSTALLED AT THE FRONTS OF THE PENTHOUSE ROOF AND EXISTING PENTHOUSE ROOF

NOTE:
1. FCC GUIDELINES AND NOC INFO SIGNS TO BE POSTED AT ALL PERMANENT ACCESS POINTS.
2. REFER TO FINAL EME DESIGN BY VERIZON PRIOR TO TURNING SITE ON.
POWER NOTES:

1. SERVICE SHALL BE 480/277V, 3Ph, 4W, 100A
2. CONTRACTOR TO COORDINATE INSPECTION AND PLACEMENT OF METER WITH THE LOCAL UTILITY COMPANY: FTC LAP
   PHONE: XXXXXXX
   W.O. NUMBER: XXXXXXX

PROPOSED 250A LOAD CENTER WITH MTS MOUNTED TO UNISTRUT ON EXTERIOR OF PENTHOUSE

18" PROPOSED (3)-30 AWG CU CONDUCTORS (1)-46 AWG CU GRND IN 2" PVC CONDUIT, ROUTED ON SLEEPERS ALONG ROOFTOP TO EQUIPMENT CABINETS

PROPOSED 25KV, 3Ph 480 - 120/240V
STOP-DOWN TRANSFORMER
FAULT: 11.775kVA (L-L)

42" PROPOSED (3)-45 AWG CU CONDUCTORS (1)-46 AWG CU GRND IN 2" PVC CONDUIT ROUTED ON SLEEPERS ALONG ROOFTOP TO EQUIPMENT CABINETS

PROPOSED 2"x3"x3" FIBER VAULT (SEE DETAIL SC-4)

PROPOSED 2"x3"x3" FIBER VAULT (TYP OF D) (SEE DETAIL SC-4)
(VAULT TO BE PLACED AT EDGE OF PROPERTY LINE, FIBER TO BE Brought TO VAULT FROM R.O.W. BY OTHERS)
PROPOSED 200A LOAD CENTER WITH MTS MOUNTED TO UNISTRUT ON EXTERIOR OF PENTHOUSE

PROPOSED MANUAL TRANSFER SWITCH WITHIN LOAD CENTER
FAULT: 2,285A (L-L)

18' PROPOSED (3)-30 AWG CU CONDUCTORS (1)-#6 AWG CU GND IN 2" PVC CONDUIT ROUTED ON SLEEPERS ALONG ROOFTOP TO EQUIPMENT CABINETS

PROPOSED BATTERY CABINET
(SEE DETAIL 1/C-3)

PROPOSED EQUIPMENT CABINET
(SEE DETAIL 1/C-3)

PROPOSED 25KVA, 3ɸ 277/480V - 120/240V STEP-DOWN TRANSFORMER
FAULT: 1,793A (L-L)

PROPOSED METER WITH SERVICE DISCONNECT MOUNTED ON WALL

PROPOSED MANUAL TRANSFER SWITCH WITHIN LOAD CENTER
FAULT: 2,285A (L-L)

PROPOSED LEVER TYPE CUSTOMER DISCONNECT

PROPOSED LEVER TYPE CUSTOMER DISCONNECT

PROPOSED CHASE ON SIDE OF BUILDING FOR FIBER AND POWER ROUTING TO EQUIPMENT (PAINT TO MATCH EXISTING BUILDING)

PROPOSED GENERATOR PLUG AT GRADE

PROPOSED BATTERY CABINET
(SEE DETAIL 1/C-3)

PROPOSED EQUIPMENT CABINET
(SEE DETAIL 1/C-3)

PROPOSED GENERATOR PLUG AT GRADE

PROPOSED CHASE ON SIDE OF BUILDING FOR FIBER AND POWER ROUTING TO EQUIPMENT (PAINT TO MATCH EXISTING BUILDING)

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PROPOSED BATTERY CABINET
(SEE DETAIL 1/C-3)

PROPOSED EQUIPMENT CABINET
(SEE DETAIL 1/C-3)

PROPOSED 25KVA, 3ɸ 277/480V - 120/240V STEP-DOWN TRANSFORMER
FAULT: 1,793A (L-L)

PROPOSED METER WITH SERVICE DISCONNECT MOUNTED ON WALL

PROPOSED MANUAL TRANSFER SWITCH WITHIN LOAD CENTER
FAULT: 2,285A (L-L)

PROPOSED LEVER TYPE CUSTOMER DISCONNECT

PROPOSED CHASE ON SIDE OF BUILDING FOR FIBER AND POWER ROUTING TO EQUIPMENT (PAINT TO MATCH EXISTING BUILDING)

PROPOSED GENERATOR PLUG AT GRADE

PROPOSED BATTERY CABINET
(SEE DETAIL 1/C-3)

PROPOSED EQUIPMENT CABINET
(SEE DETAIL 1/C-3)

PROPOSED GENERATOR PLUG AT GRADE

PROPOSED CHASE ON SIDE OF BUILDING FOR FIBER AND POWER ROUTING TO EQUIPMENT (PAINT TO MATCH EXISTING BUILDING)
NOTES:

1. ELECTRICAL SERVICE SHALL BE 100A.
2. SERVICE SHALL BE INSTALLED WITH A LEVER TYPE DISCONNECT.
3. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT CABINET MANUFACTURER.
4. METER BY FT. COLLINS L&P. SEE INTERNAL WIRING DIAGRAM PROVIDED BY MANUFACTURER FOR DETAILS.
5. VERIZON TO PULL 70.16A FROM ELECTRICAL SERVICE.
PROPOSED GROUND WIRE FROM TRANSFORMER TO MASTER GROUND BAR
PROPOSED 25KVA, 1Ø 277/480V - 120/240V STEP-DOWN TRANSFORMER

PROPOSED GROUND WIRE FROM EQUIMENT CABINET TO MASTER GROUND BAR (TYP OF 2)

PROPOSED (2)-#2 BARE TINNED SOLID COPPER GROUND WIRE ROUTED DOWN TO PROPOSED GROUND ROD AT GRADE

PROPOSED (2)-#2 BARE TINNED SOLID COPPER GROUND WIRE ROUTED DOWN TO PROPOSED GROUND ROD AT GRADE

PROPOSED 5/8"x16'-4" GROUND ROD BURIED 36" BELOW GRADE (SEE DETAIL 1G-6)

PROPOSED CHASE ON SIDE OF BUILDING FOR FIBER AND POWER ROUTING TO EQUIPMENT (PAINT TO MATCH EXISTING BUILDING)
EM SGC424-VZW 2MGB OR EQUAL

GALVANIZED STEEL GROUND BAR, BY ELECTRIC MOTION COMPANY (SEE SCHEDULE BELOW).

INSULATORS, BY HARGER CAT. #5263-A5.

5/8" LOCKWASHERS, STAINLESS STEEL.

WALL MOUNTING BRACKET, HARGER CAT. #WBKT-2.

5/8-11x3" H.H.C.S. BOLTS, STAINLESS STEEL.

LEGEND

(1) "GALV STEEL" STEEL STAMPED ON EITHER END

(2) #2 AWG SOLID COPPER GROUNDING CONDUCTOR

(3) 5/8"X10'-0" GALVANIZED GROUND ROD TOTAL DEPTH IN SOIL TO BE 8'-0" MIN.

TYPICAL CABLE GROUNDING

GROUND ROD DETAIL

GROUNDING DETAILS

G-2

WEATHERPROOFING DETAIL

TYPICAL CABLE GROUNDING

TYPICAL CADWELD TYPE CONNECTIONS

GROUND BAR SCHEDULE

GROUND BAR DETAIL
PROPOSED 10'-0" ACCESS EASEMENT

EXISTING WALKWAY

EXISTING BUILDING

EXISTING NATURAL GROUND (TYP)

EAST OLIVE ST.

NOTE:
FIBER LINE TO BE INSTALLED THROUGH BORING TECHNIQUES. BORING TO START NEAR THE RIGHT-OFF-WAY ALONG EAST OLIVE STREET AND THEN WORK TOWARD THE BUILDING TO LIMIT THE IMPACT OF BORING EQUIPMENT AND DRILLING NEAR THE CLOSEST TREE TO THE BUILDING. BORE DEPTH TO BE A MINIMUM OF 48" TO AVOID ALL TREE ROOTS. PRIOR TO BORING AND OTHER CONSTRUCTION OPERATIONS, CITY FORESTRY WILL REVIEW AND APPROVE TREE PROTECTION STRUCTURES. TREE PROTECTION IN THE FORM OF CONCRETE BLANKETS AND ORANGE SNOW FENCING AROUND TREE TRUNKS SHOULD BE INSTALLED PRIOR TO ON-SITE CONSTRUCTION.