

NEW PAR
D/B/A



SITE NAME:
RINGS 270

VERIZON WIRELESS SITE NUMBER: CLMB-305

PROPOSED ROOFTOP INSTALLATION SITE WITH NEW ANTENNA
INSTALLATIONS ATOP THE EXISTING BUILDING WITH THE INSTALLATION OF
EQUIPMENT IN AN EXISTING SHELTER AND A NATURAL GAS GENERATOR



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PREPARED BY:
BURGESS & NIPLE
Engineers ■ Architects ■ Planners
5085 REED ROAD
COLUMBUS OH 43220
614-459-2050
FA 614-451-1385

PREPARED FOR:



FULL SCALE PRINT IS
ON 24" x 36" MEDIA

**CONSTRUCTION
DRAWINGS**

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270
5525 PARKCENTER CIRCLE
DUBLIN, OH 43017
FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

DESIGNED BY: GSH
DRAWN BY: JBH
DATE: 04/27/2017

SHEET TITLE:

**TITLE SHEET
& PROJECT
INFORMATION**

SHEET NUMBER:

T-1

PROJECT INFORMATION

VERIZON WIRELESS SITE NAME: RINGS 270
 VERIZON WIRELESS SITE NUMBER: CLMB-305
 E911 ADDRESS: 5525 PARKCENTER CIRCLE
 DUBLIN, OH 43017
 COUNTY: FRANKLIN COUNTY

ELEVATION: ±949.0' (NAVD 1988) AMSL
 LATITUDE: 40° 04' 49.25"
 LONGITUDE: 83° 08' 04.39"

ZONING CLASSIFICATION: PCD - PLANNED COMMERCE DISTRICT

APPLICANT: NEW PAR d/b/a
 VERIZON WIRELESS
 7575 COMMERCE COURT
 LEWIS CENTER, OHIO 43035

PROPERTY OWNER: DP PARKCENTER CIRCLE LLC
 CONSTRUCTION MANAGER: BRENT SEYMORE
 REAL ESTATE MANAGER: DAN NOBLE

NON-EMERGENCY FIRE SERVICES

NORWICH TOWNSHIP FIRE DEPARTMENT
 5181 NORTHWEST PKWY
 HILLIARD, OH 43026
 PHONE: (614) 876-7694

NON-EMERGENCY POLICE SERVICES

DUBLIN POLICE DEPARTMENT
 6565 COMMERCE PKWY
 DUBLIN, OHIO 43017
 PHONE: (614) 889-1112

POWER COMPANY

COLUMBUS SOUTHERN POWER (AEP)
 1 RIVERSIDE PLAZA,
 COLUMBUS, OHIO 43215
 OFFICE: (614) 716-1000

TELEPHONE COMPANY

TBD

ENVIRONMENTAL REQUIREMENTS

- NOTICE TO CONTRACTOR ATTACHED
- NO ENVIRONMENTAL RESTRICTIONS

SCOPE OF WORK:

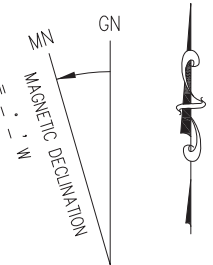
- CONSTRUCTION DRAWINGS FOR:**
- PROPOSED UNMANNED TELECOMMUNICATIONS FACILITY.
 - SITE WORK, PROPOSED TOWER AND CONCRETE FOUNDATIONS, EQUIPMENT CABINETS ON AN EQUIPMENT PLATFORM W/ CANOPY AND UTILITY INSTALLATIONS.

SPECIAL NOTES

- HANDICAPPED REQUIREMENTS:**
- FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
 - HANDICAPPED ACCESS REQUIREMENTS NOT REQUIRED.
- PLUMBING REQUIREMENTS:**
- FACILITY HAS NO PLUMBING OR REFRIGERANTS.
- FAA AND FCC REQUIREMENTS:**
- THIS FACILITY SHALL MEET ALL FAA AND FCC REQUIREMENTS.
- CONSTRUCTION REQUIREMENTS:**
- ALL WORK MUST CONFORM TO VERIZON WIRELESS CONSTRUCTION INSTALLATION STANDARDS & ALL APPLICABLE CODES AND ORDINANCES.

BUILDING CODES AND STANDARDS

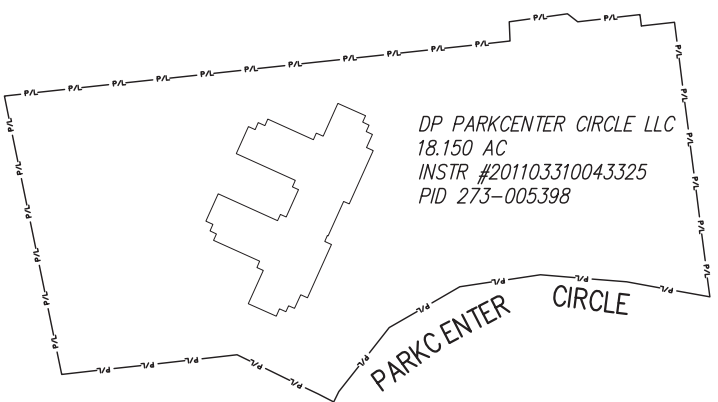
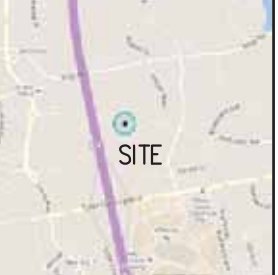
- CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE LOCATION.
 CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- AMERICAN CONCRETE INSTITUTE 318
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S MANUAL OF STEEL CONSTRUCTION
 - TELECOMMUNICATIONS INDUSTRY ASSOCIATION TIA-222
 - STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND SUPPORTING STRUCTURES TIA-601
 - COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
 - INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS IEEE-81, IEEE 1100, IEEE C62.41
 - ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION
 - 2011 OBC AND AMENDMENTS
 - 2014 NEC
- FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN.



THE EXISTING SHELTER, AS SHOWN IN THE COORDINATES BELOW, HAVE A HORIZONTAL ACCURACY WITHIN +/- 50 FEET AND A VERTICAL ACCURACY WITHIN +/- 20 FEET.

LATITUDE: 40° 04' 49.25" N
 LONGITUDE: 83° 08' 04.39" W
 AVG. ROOF ELEVATION: 949 FT
 AVG. GROUND ELEVATION: 884 FT (NAVD 88)

From 7575 Commerce Ct, Lewis Center, take US-23 south to I-270 W. Follow I-270 W to Tuttle Crossing Blvd, Exit 15. Turn left (east) on Tuttle Crossing Blvd. Turn left (north) onto Blazer Pkwy. Turn left (west) onto Parkcenter Circle. Turn left onto private drive and parking lot. Arrive at 5525 Parkcenter Circle building.



OVERALL PROPERTY MAP
(NOT TO SCALE)

TOWER COORDINATES

DIRECTIONS

LOCATION MAP
(NOT TO SCALE)

LEGEND

- ⊕ POWER POLE
- ⊕ LIGHT POLE
- ⊕ TELEPHONE POLE
- ⊕ TELEPHONE BOX
- ⊕ ELECTRIC BOX
- ⊕ O.I.P.F. IRON PIN FOUND
- I.P.S. IRON PIN SET
- P.K.S. PK NAIL SET
- M.N.S. MAG NAIL SET
- MONU - MONUMENT
- IP - IRON PIN
- POB - POINT OF BEGINNING
- CENTERLINE
- RIGHT OF WAY LINE
- PROPERTY LINE
- LAND SPACE
- PROPOSED RIGHTS OF WAY
- EXISTING EASEMENT
- FENCE

EASEMENTS AND RECORDING INFORMATION SHOWN HEREON ARE BASED ON TITLE REPORT (COMMITMENT No. _____), PROVIDED TO PS SURVEYING & MAPPING GROUP, LLC BY AGENTS OF NEW PAR, d.b.a. VERIZON WIRELESS. ALL VISIBLE EVIDENCE OF UTILITIES OR OTHER DATA OBSERVED IN THE FIELD IS DELINEATED HEREON.

TO NEW PAR, d.b.a. VERIZON WIRELESS. THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT WAS MADE IS IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ASCM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND ASCM IN 1992. HOWEVER, THE FOCUS OF THIS SURVEY IS THE LAND SPACE AND RIGHTS OF WAY PERTINENT THEREUNTO. INFORMATION REGARDING PARTS OF THE SUBJECT TRACT NOT CONCERNED WITH SAID LAND SPACE AND THE SPECIFIED RIGHTS OF WAY MAY NOT BE INCLUDED HEREON.

PRELIMINARY SURVEY
(NOT FOR CONSTRUCTION)

REGISTERED SURVEYOR _____ DATE _____

NO.	DATE	DESCRIPTION

**RINGS 270 (CLMB-305)
 DP PARKCENTER CIRCLE LLC**

STATE OF OHIO, COUNTY OF FRANKLIN, CITY OF DUBLIN
 PARKCENTER CIRCLE, DUBLIN, OH 43017

PREPARED FOR
NEW PAR dba VERIZON WIRELESS

PS SURVEYING & MAPPING GROUP, LLC
 1425 PENTLAND PLACE, COLUMBUS, OH 43235
 (614) 531-1122 info@PSsurvey.com

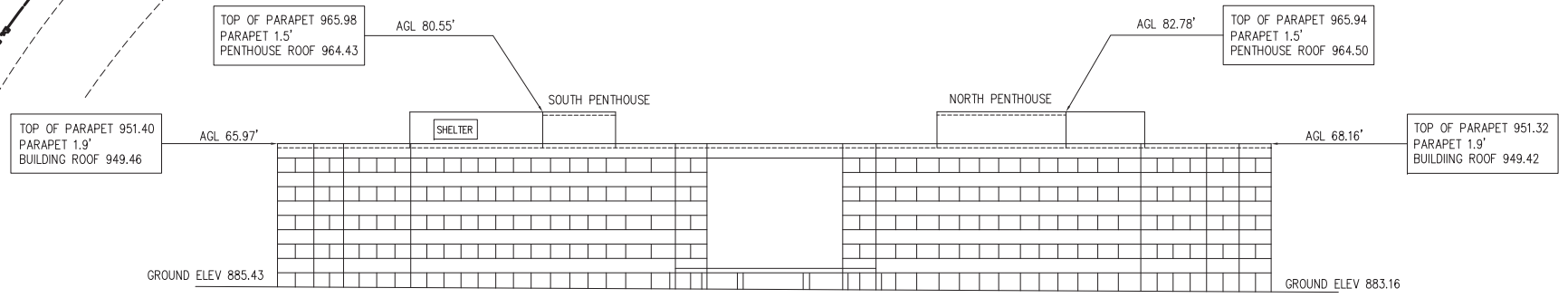
SITE SURVEY

PS PROJECT No. 16-101-05	DRAWN BY ALC	DATE 3/17/2016	SHEET 1 OF 1
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UTILITY NOTE:
 UTILITIES SHOWN IN THIS MAP ARE BASED ON VISIBLE FIELD EVIDENCE, OUPS PHYSICAL MARKINGS, OR AVAILABLE INFORMATION FROM UTILITY OWNERS. THE LOCATIONS OF ANY UNDERGROUND UTILITIES ARE ONLY APPROXIMATE. UTILITIES CONTAINED IN THIS MAP MAY NOT REPRESENT ALL THE UTILITIES IN THIS AREA.



ELEVATION VIEW
(NOT TO SCALE)

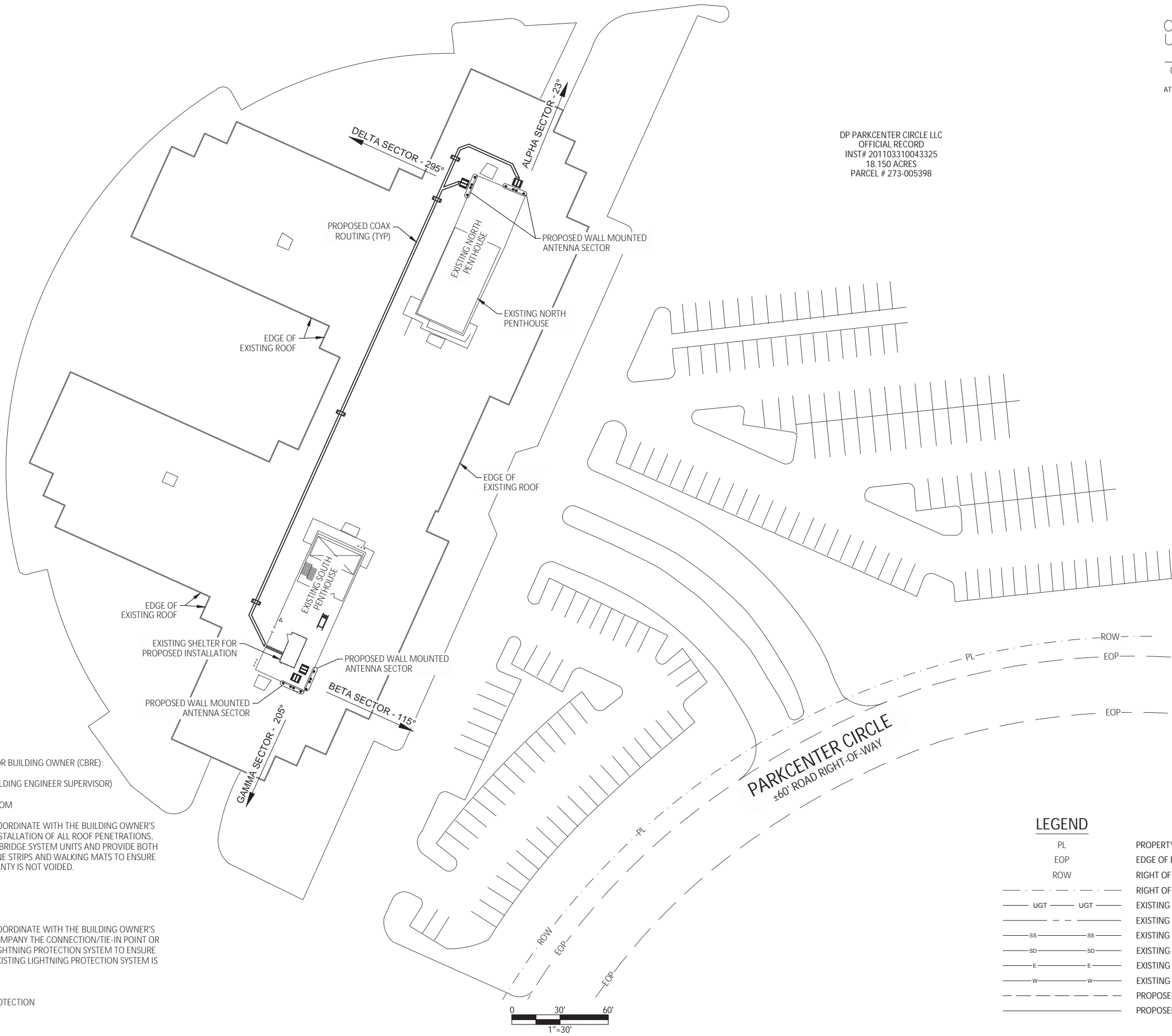




PREPARED FOR:



DP PARKCENTER CIRCLE LLC
OFFICIAL RECORD
INST# 201103310043325
18.150 ACRES
PARCEL # 273-005398



NOTES:

- CONTACT INFORMATION FOR BUILDING OWNER (CBRE):
HENRY LOGAN (CHIEF BUILDING ENGINEER SUPERVISOR)
614-601-2625 (MOBILE)
SAMUEL.LOGAN@CBRE.COM
- THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER'S ROOFING COMPANY THE INSTALLATION OF ALL ROOF PENETRATIONS, ROOFTOP SLEDS, ROOFTOP BRIDGE SYSTEM UNITS AND PROVIDE BOTH THE PROTECTIVE MEMBRANE STRIPS AND WALKING MATS TO ENSURE THE EXISTING ROOF WARRANTY IS NOT VOIDED.

CONTACT INFORMATION:
HOLLAND ROOFING
614-430-7324
- THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER'S LIGHTNING PROTECTION COMPANY THE CONNECTION/TIE-IN POINT OR POINTS TO THE EXISTING LIGHTNING PROTECTION SYSTEM TO ENSURE THE WARRANTY FOR THE EXISTING LIGHTNING PROTECTION SYSTEM IS NOT VOIDED.

CONTACT INFORMATION:
MAXWELL LIGHTNING PROTECTION
R. DYLAN MAGGARD
937-228-7250 (OFFICE)

LEGEND

PL	PROPERTY LINE
EOP	EDGE OF PAVEMENT
ROW	RIGHT OF WAY
---	RIGHT OF WAY
---	EXISTING UNDERGROUND TELEPHONE
---	EXISTING PROPERTY LINE
SS	EXISTING SANITARY SEWER
SD	EXISTING STORM SEWER
E	EXISTING ELECTRIC LINE
W	EXISTING WATER LINE
---	PROPOSED ACCESS AND UTILITY RIGHTS OF WAY
---	PROPOSED LAND SPACE

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CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
DUBLIN, OH 43017
FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

DESIGNED BY: GSH
DRAWN BY: JBH
DATE: 04/27/2017

SHEET TITLE:

OVERALL SITE LAYOUT

SHEET NUMBER:

C-1



NOTE:

THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER'S ROOFING COMPANY THE INSTALLATION OF THE STEP-OVER BRIDGES AND PROVIDE BOTH THE PROTECTIVE MEMBRANE STRIPS AND WALKING MATS TO ENSURE THE EXISTING ROOF WARRANTY IS NOT VOIDED.

PROPOSED 24"W x 66 1/4"L x 16 1/4"H GALVANIZED STEP-OVER BRIDGE (SITE PRO1, MODEL: STEP48 OR APPROVED EQUAL)

PROPOSED ALPHA AND DELTA SECTOR COAX ROUTING SEE ROOFTOP BRIDGE SYSTEM DETAIL THIS SHEET

EXISTING ANTENNA SECTOR AND ASSOCIATED EQUIPMENT AND MOUNTED TO BE REMOVED AND DISPOSED OF OFF-SITE. ALL EXISTING PENETRATIONS SHALL BE PATCHED FROM BOTH SIDES AND PAINTED TO MATCH THE COLOR OF THE EXISTING SCREEN WALL. THE EXACT COLOR SHALL BE APPROVED BY BOTH THE BUILDING OWNER AND CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

PROPOSED BETA AND GAMMA COAX ROUTING ALONG EXISTING COAX SUPPORTS (APPROXIMATE LENGTH TO FURTHEST POINT AS SHOWN ±57')

EXISTING CONDUIT PENETRATION FOR PROPOSED INSTALLATION (TYP)
EXISTING FIBER CONDUIT/SERVICE FOR PROPOSED INSTALLATION (±25' TO EXISTING CONDUIT PENETRATION)
EXISTING GROUNDING CONDUIT/SERVICE TO REMAIN
EXISTING STAIRS AND ENTRY PLATFORM

EXISTING ELECTRIC CONDUIT/SERVICE TO REMAIN

EXISTING AC UNIT WITH NATURAL GAS FEED

PROPOSED ANTENNA INSTALLATION PER MANUFACTURER'S SPECIFICATIONS (ANTENNAS TO BE MOUNTED ON VALMONT NO. SP250 OR APPROVED EQUAL WHICH SHALL BE THROUGH BOLTED ON EXISTING SCREEN WALL SEE DETAIL ON SHEETS C-12, S1.1, S1.2 AND S2.1 - ANTENNA EQUIPMENT TO BE MOUNTED ON VALMONT NO. RT-RRU5HD OR APPROVED EQUAL)

EXISTING SOUTH PENTHOUSE

PROPOSED GENERATOR INSTALLATION PER MANUFACTURER'S SPECIFICATIONS (GENERATOR/ENCLOSURE TO MOUNT PER SHEETS C-10, S1.1, S1.2 AND S2.1)

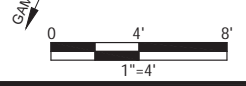
PROPOSED GAS LINE (1-1/2" BIP CONDUIT) ±45'

PROPOSED GENERATOR CONDUITS SEE DETAIL SHEET C-9

EXISTING SHELTER FOR PROPOSED INSTALLATION SEE DETAIL SHEETS C-5, S1.1, S1.2 AND S2.1

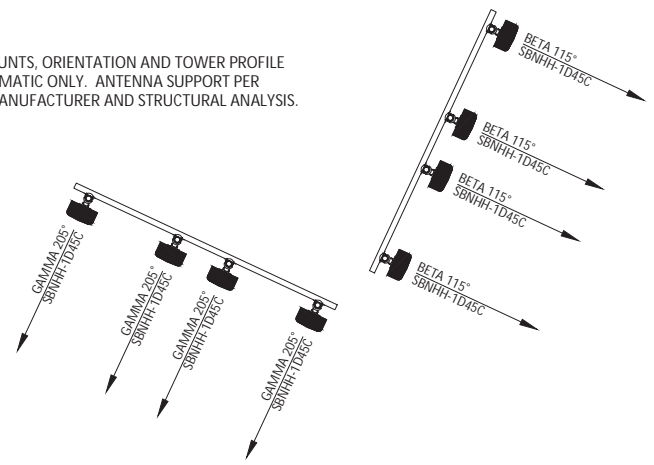
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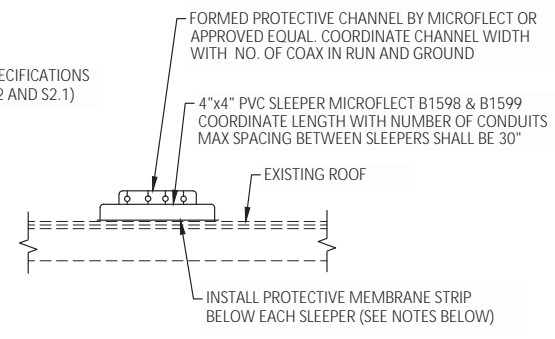


NOTE:

ANTENNA MOUNTS, ORIENTATION AND TOWER PROFILE ARE DIAGRAMMATIC ONLY. ANTENNA SUPPORT PER STRUCTURE MANUFACTURER AND STRUCTURAL ANALYSIS.



PROPOSED ANTENNA MOUNT AND ORIENTATION
NOT TO SCALE



ROOFTOP BRIDGE SYSTEM DETAIL
NOT TO SCALE

NOTE:

THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER'S ROOFING COMPANY THE INSTALLATION OF THE ROOF MOUNTED BRIDGE UNITS AND PROVIDE BOTH THE PROTECTIVE MEMBRANE STRIPS AND WALKING MATS TO ENSURE THE EXISTING ROOF WARRANTY IS NOT VOIDED.

LEGEND

- GAS — GAS — PROPOSED GAS CONDUIT
- F — F — F — PROPOSED FIBER CONDUIT
- E — E — PROPOSED ELECTRIC CONDUIT
- - - - - PROPOSED GROUND CONDUIT
- - - - - PROPOSED COAX
- — — — — EXISTING STEEL SUPPORT BEAM FOR SHELTER

PREPARED BY:
BURGESS | NIPLE
Engineers ■ Architects ■ Planners
5085 REED ROAD
COLUMBUS, OH 43220
614-459-2050
FA 614-451-1385

PREPARED FOR:



FULL SCALE PRINT IS ON 24" x 36" MEDIA

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
DUBLIN, OH 43017

FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

DESIGNED BY: GSH

DRAWN BY: JBH

DATE: 04/27/2017

SHEET TITLE:

**ROOF
INSTALLATION
LAYOUT**

SHEET NUMBER:

C-2



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Engineers | Architects | Planners
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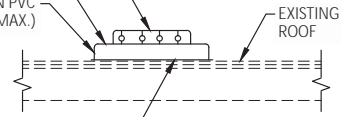
C-3

FORMED PROTECTIVE CHANNEL BY MICROFLECT OR APPROVED EQUAL.
COORDINATE CHANNEL WIDTH WITH NO. OF COAX IN RUN AND GROUND

4"x4" PVC SLEEPER MICROFLECT B1598 & B1599
COORDINATE LENGTH WITH NUMBER OF CONDUITS

SPACING BETWEEN PVC
SLEEPER SHALL BE 30" (MAX.)

INSTALL PROTECTIVE MEMBRANE STRIP
BELOW EACH SLEEPER (SEE NOTES BELOW)



ROOFTOP BRIDGE SYSTEM DETAIL

NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER'S ROOFING COMPANY THE INSTALLATION OF THE ROOF MOUNTED BRIDGE UNITS AND PROVIDE BOTH THE PROTECTIVE MEMBRANE STRIPS AND WALKING MATS TO ENSURE THE EXISTING ROOF WARRANTY IS NOT VOIDED.

NOTE:

THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER'S ROOFING COMPANY THE INSTALLATION OF THE STEP-OVER BRIDGES AND PROVIDE BOTH THE PROTECTIVE MEMBRANE STRIPS AND WALKING MATS TO ENSURE THE EXISTING ROOF WARRANTY IS NOT VOIDED.

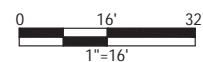
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GALVANIZED STEP-OVER BRIDGE (SITE PROJ,
MODEL: STEP48 OR APPROVED EQUAL)

PROPOSED ALPHA AND DELTA SECTOR COAX ROUTING
SEE ROOFTOP BRIDGE SYSTEM DETAIL THIS SHEET

EXISTING ANTENNA SECTOR AND ASSOCIATED EQUIPMENT AND MOUNTED TO BE REMOVED AND DISPOSED OF OFF-SITE. ALL EXISTING PENETRATIONS SHALL BE PATCHED FROM BOTH SIDES AND PAINTED TO MATCH THE COLOR OF THE EXISTING SCREEN WALL. THE EXACT COLOR SHALL BE APPROVED BY BOTH THE BUILDING OWNER AND CONSTRUCTION MANAGER PRIOR TO INSTALLATION.

LEGEND

- GAS — GAS — PROPOSED GAS CONDUIT
- F — F — F — PROPOSED FIBER CONDUIT
- E — E — E — PROPOSED ELECTRIC CONDUIT
- - - - - PROPOSED GROUND CONDUIT
- · - · - · - PROPOSED COAX
- - - - - EXISTING STEEL SUPPORT BEAM FOR SHELTER



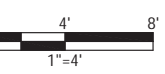
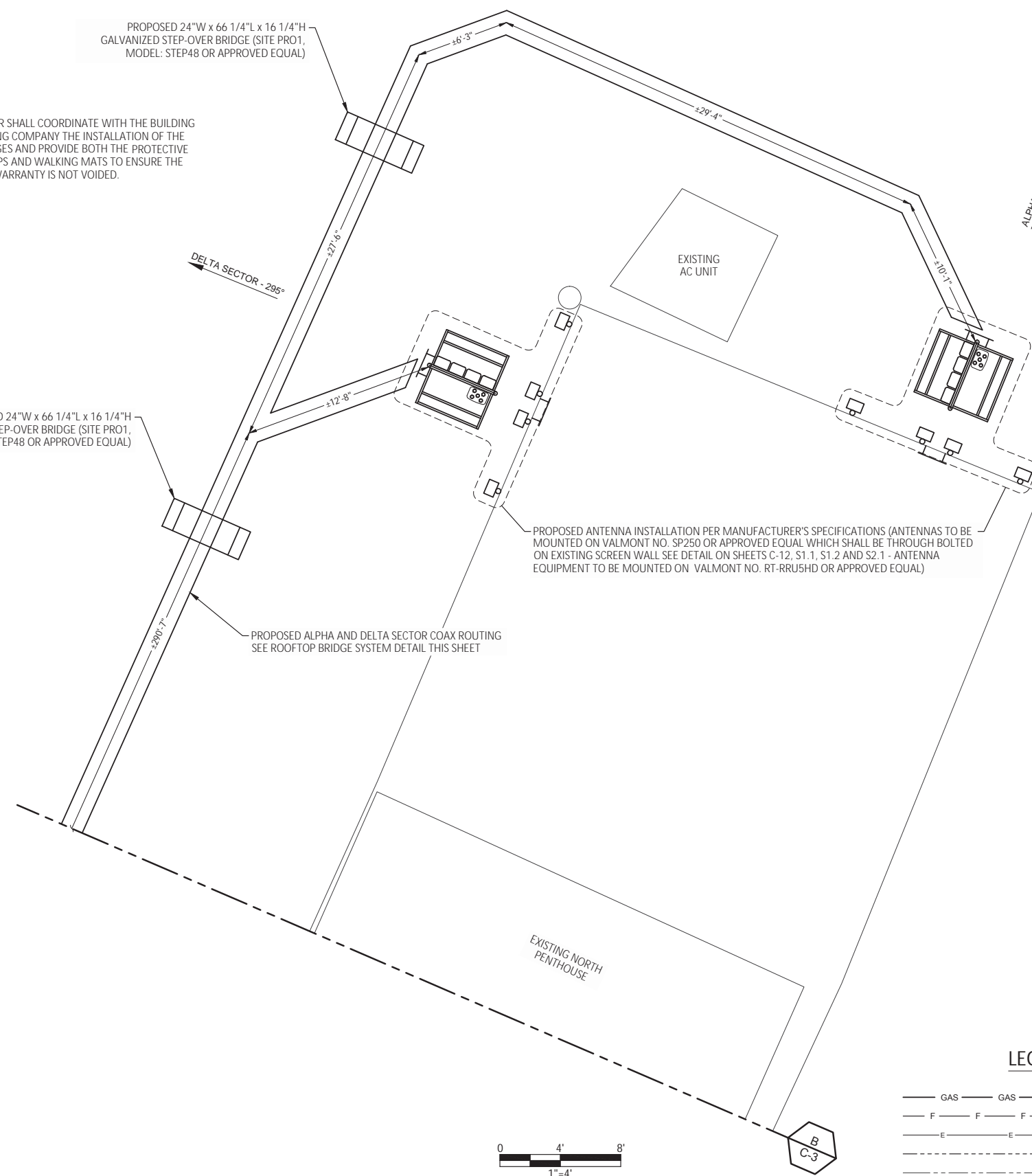


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NOTE:

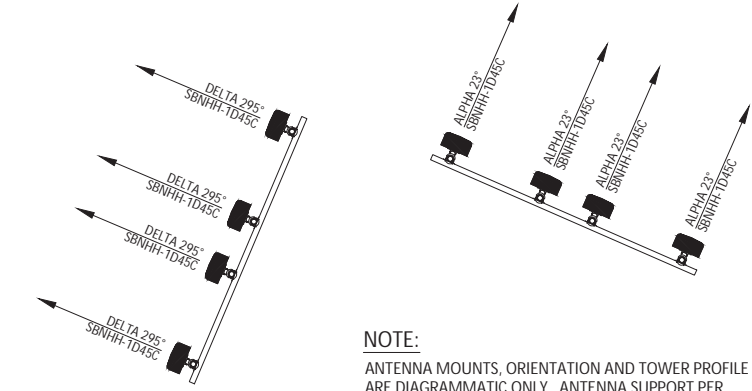
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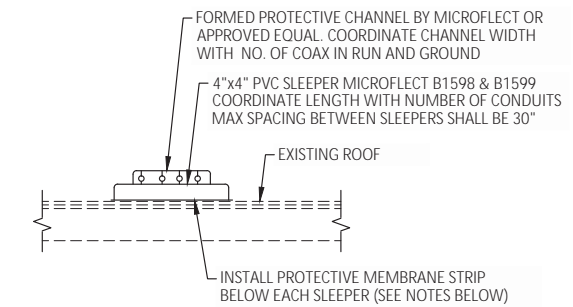
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- — — — — PROPOSED GROUND CONDUIT
- - - - - EXISTING SAFETY LINE



PROPOSED ANTENNA MOUNT AND ORIENTATION
NOT TO SCALE

NOTE:
ANTENNA MOUNTS, ORIENTATION AND TOWER PROFILE ARE DIAGRAMMATIC ONLY. ANTENNA SUPPORT PER STRUCTURE MANUFACTURER AND STRUCTURAL ANALYSIS.



ROOFTOP BRIDGE SYSTEM DETAIL
NOT TO SCALE

NOTE:
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DRAWN BY: JBH
DATE: 04/27/2017

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ROOF INSTALLATION LAYOUT

SHEET NUMBER:
C-4

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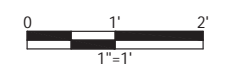
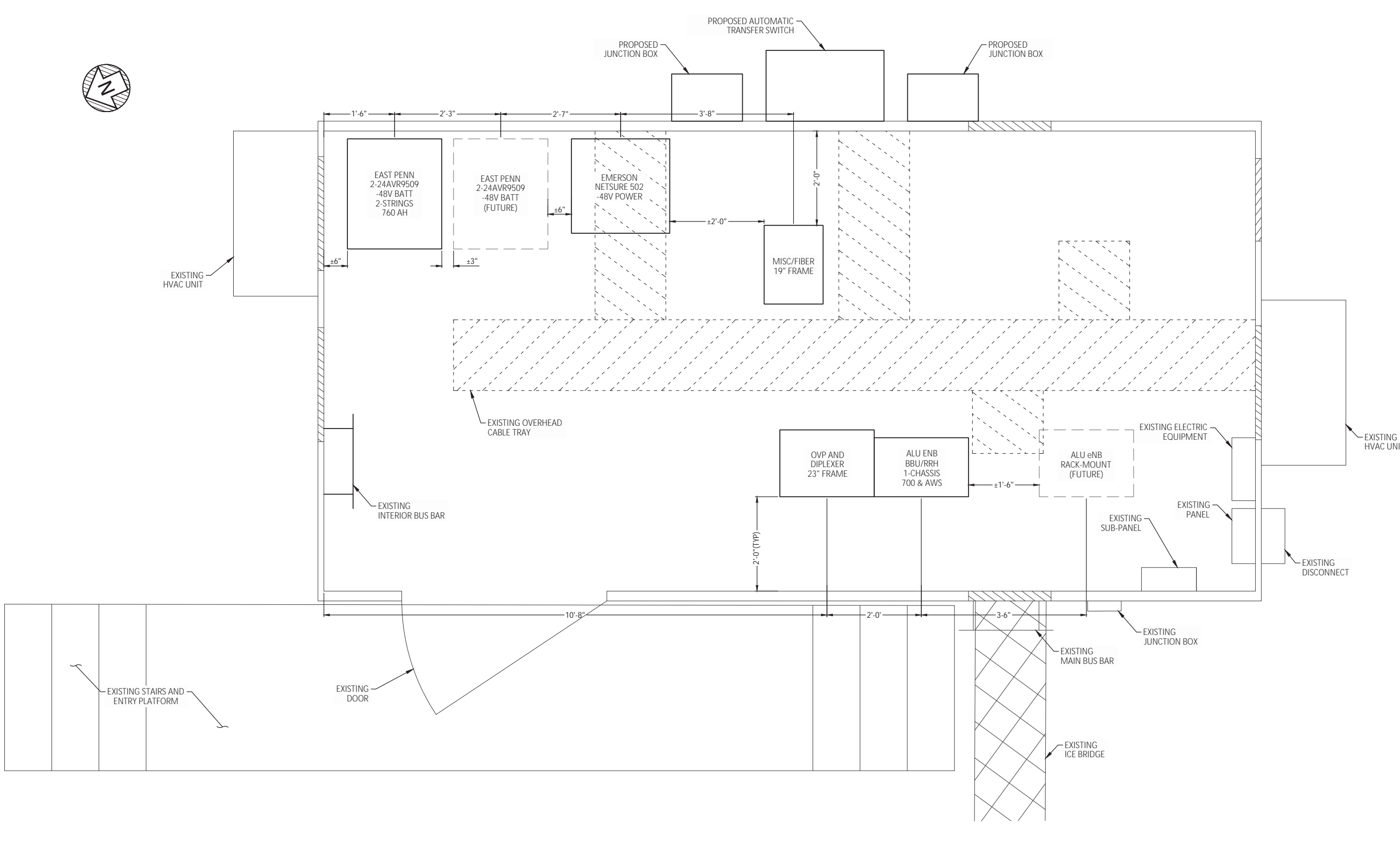
DATE: 04/27/2017

SHEET TITLE:

**SHELTER
 INSTALLATION
 LAYOUT**

SHEET NUMBER:

C-5





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VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

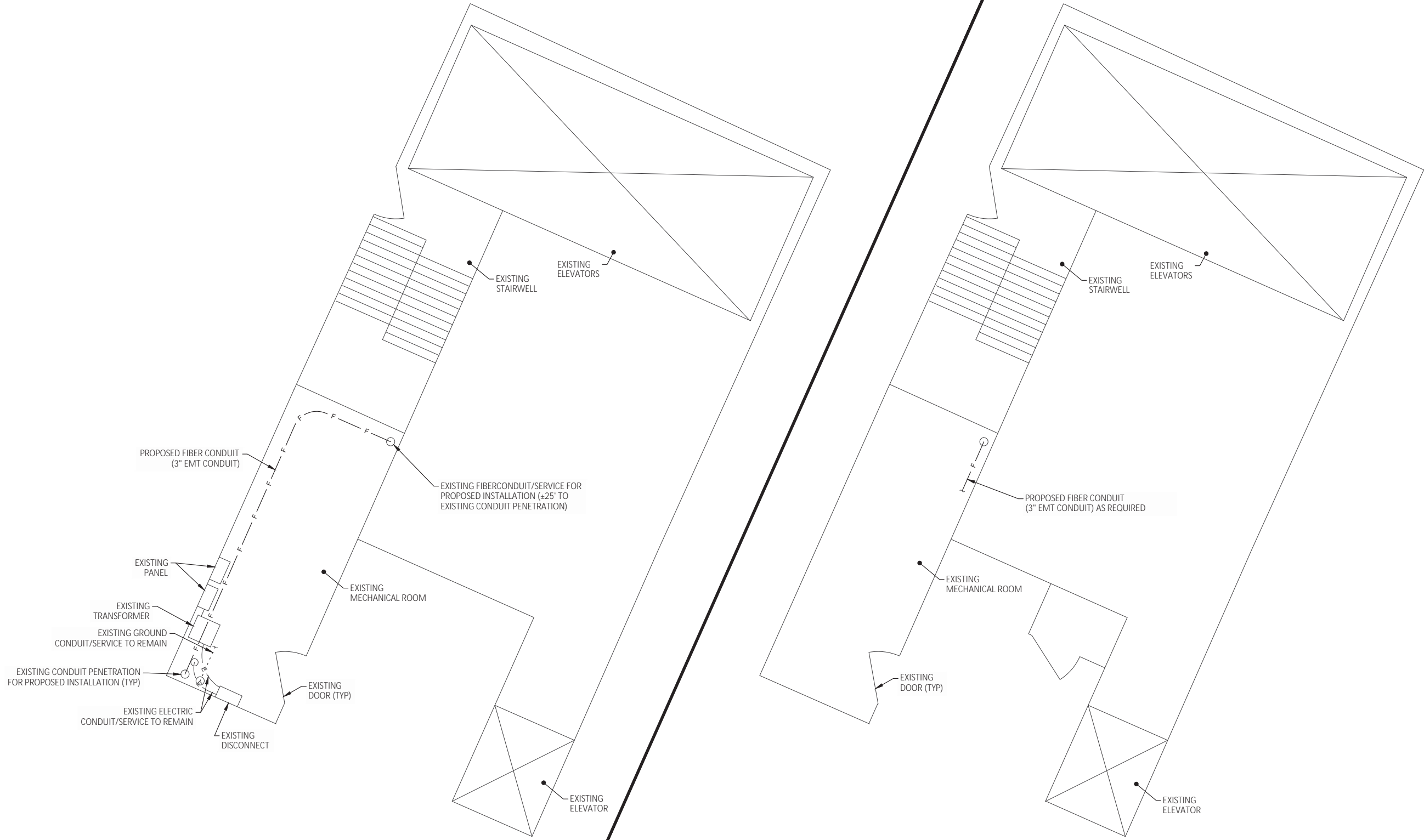
DESIGNED BY: GSH
 DRAWN BY: JBH
 DATE: 04/27/2017

SHEET TITLE:

**BUILDING
 CONDUIT
 ROUTING LAYOUT**

SHEET NUMBER:

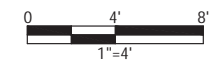
C-6



5TH FLOOR CONDUIT ROUTING PLAN/LAYOUT

LEGEND

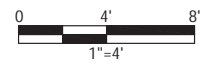
- E — E — E — PROPOSED ELECTRIC CONDUIT
- F — F — F — PROPOSED FIBER CONDUIT
- - - - - PROPOSED GROUND CONDUIT



1ST FLOOR CONDUIT ROUTING PLAN/LAYOUT

LEGEND

- E — E — E — PROPOSED ELECTRIC CONDUIT
- F — F — F — PROPOSED FIBER CONDUIT
- - - - - PROPOSED GROUND CONDUIT



PREPARED BY:
BURGESS | NIPLE
 Engineers | Architects | Planners
 5085 REED ROAD
 COLUMBUS, OH 43220
 614-459-2050
 FA | 614-451-1385

PREPARED FOR:



FULL SCALE PRINT IS
 ON 24" x 36" MEDIA

**CONSTRUCTION
 DRAWINGS**

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
 DUBLIN, OH 43017
 FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

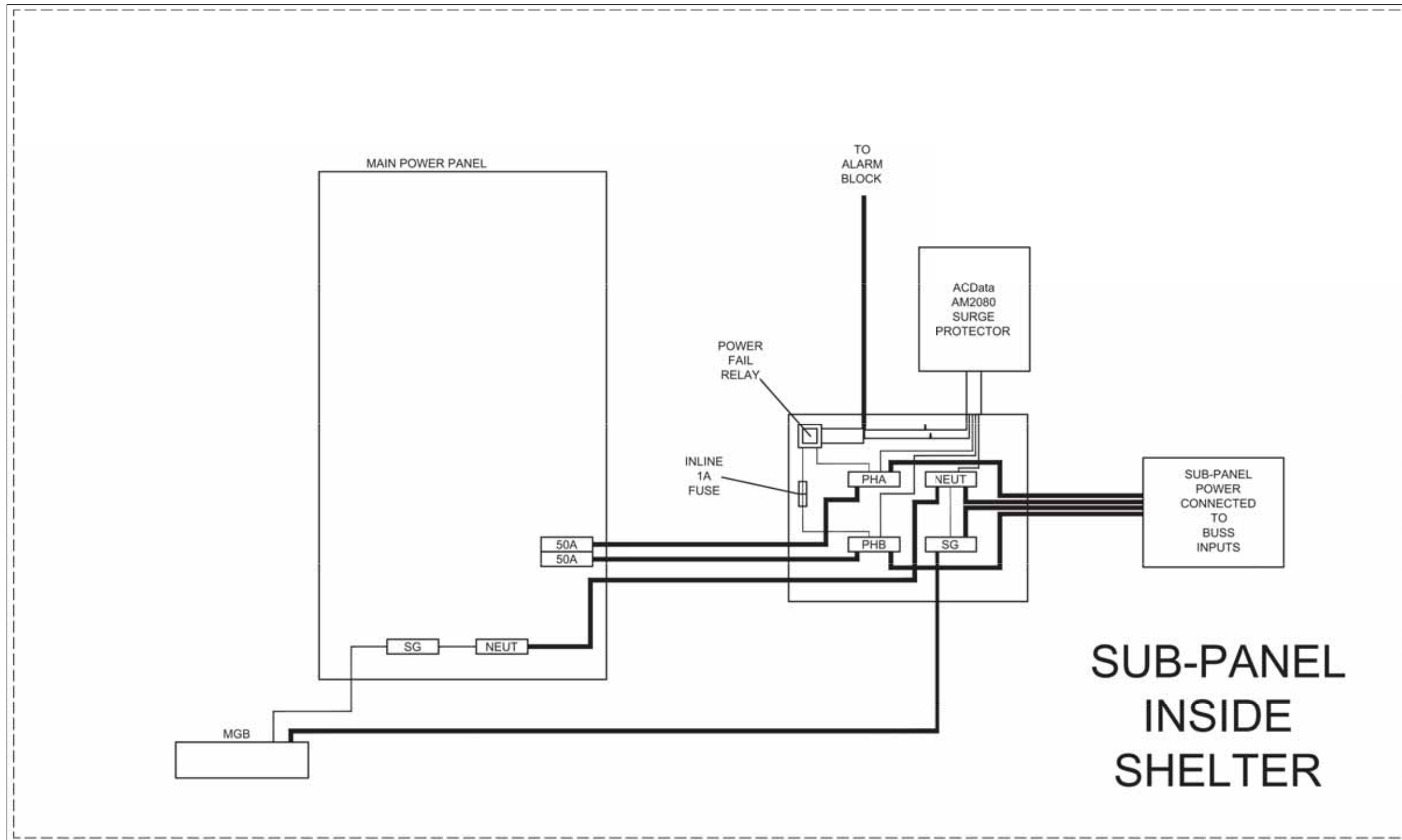
DESIGNED BY: GSH
 DRAWN BY: JBH
 DATE: 04/27/2017

SHEET TITLE:

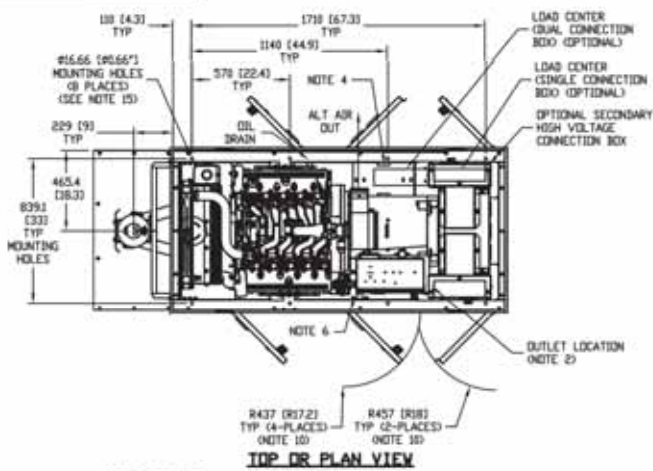
**GENERATOR
 PROTECTION
 DETAILS**

SHEET NUMBER:

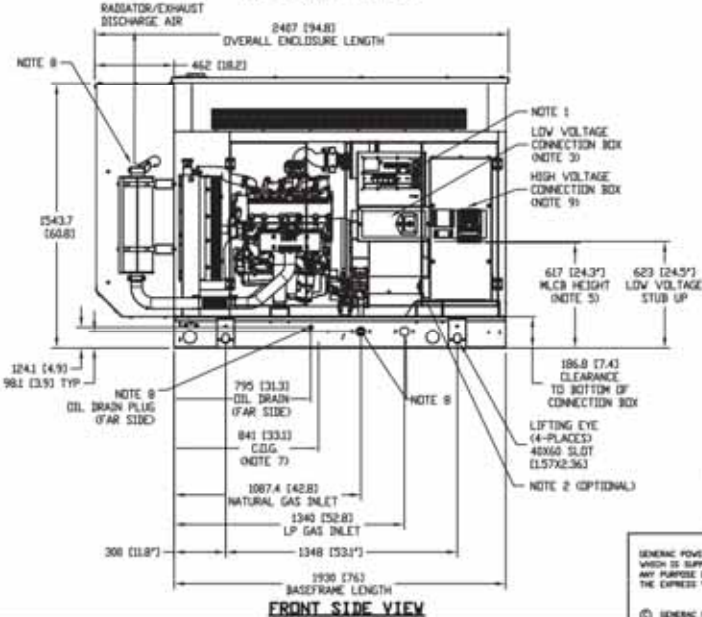
C-8



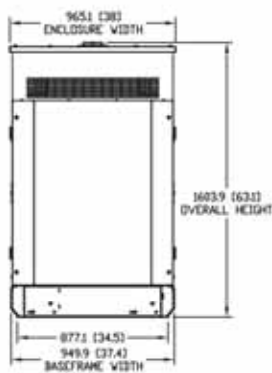
0J6865G



TOP OR PLAN VIEW



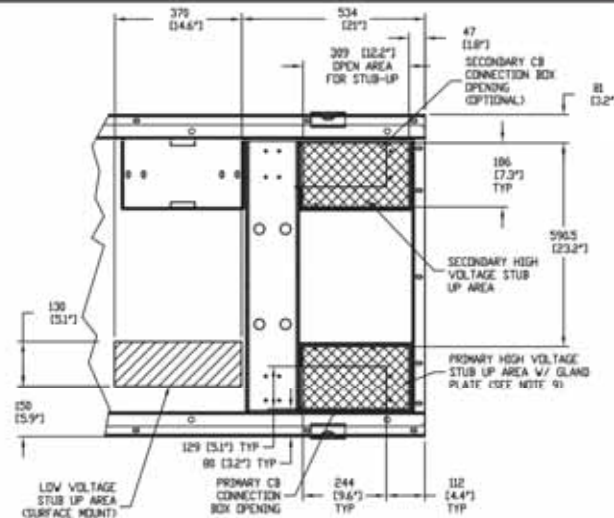
FRONT SIDE VIEW



REAR VIEW

SALES SPECIAL

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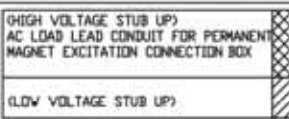


STUB-UP AREA DETAILED VIEW

NOTE:

1. CONTROL PANEL (OPTIONAL BATTERY CHARGER INSIDE)
2. 120V, 20A GFCI & 250V, 15A OUTLET (OPTIONAL)
3. CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB UP AREA)
4. BATTERY (12 VOLT NEGATIVE GROUND SYSTEM)
5. MAIN LINE CIRCUIT BREAKER (MLCB), AC LOAD LEADS CONNECT DIRECTLY TO MLCB. MLCB HEIGHT MAY VARY WITH CB SELECTION
6. BLOCK HEATER
7. CENTER OF GRAVITY AND WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS
8. ENGINE SERVICE CONNECTIONS:
 FUEL INLET L/P GAS = 1-1/4" NPT FEMALE COUPLING
 FUEL INLET NATURAL GAS = 1-1/4" NPT FEMALE COUPLING
 OIL DRAIN = 1/2" NPT FEMALE COUPLING
 EXHAUST OUTLET = 3" O.D. MUFFLER
9. AUXILIARY AC CONNECTION FOR UNIT OPTIONS ARE LOCATED IN HIGH VOLTAGE CONNECTION BOX, UNLESS AN OPTIONAL LOAD CENTER IS INSTALLED
10. DOORS MUST BE ABLE TO OPEN AT LEAST 90° TO BE REMOVED
11. BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
12. GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED
13. CIRCUIT BREAKER
 - AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER
 - REFER TO LUG SIZING CHART AVAILABLE IN GEN-CONNECT
14. EPA AIR QUALITY REGULATIONS REQUIRE THE CATALYST TO REMAIN MOUNTED WITHIN THE SPECIFIED MOUNTING POSITION DETAILED ON THIS DRAWING
15. MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5. (USE STANDARD SAE TORQUE SPECS.)

RECOMMENDED ELECTRICAL STUB-UPS (SEE DETAILED VIEW & TOP VIEW)



WEIGHT DATA

OPEN SET: 996KG (2195LBS)
 STEEL ENCLOSURE: 342KG (753LBS)
 ALUMINUM ENCLOSURE: 116KG (256LBS)
 (SEE NOTE 7)

INSTALLATION DRAWING

SG35, 40, 45 & 50	
5.4L DIRECT DRIVE	
SOUND ATTENUATED	
LEVEL 2 ENCLOSURE - Y02	
ISSUE DATE 03/25/14	

GENERAC POWER SYSTEMS Waukesha P.O. BOX 8 WAUKESHA, WIS. 53187	
FILE NAME	0J6865G.DWG
SCALE	1-30
DWG NO.	0J6865G
SIZE	B
FIRST USE	CD 1695082
REV	A

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 FAX 614-451-1385

PREPARED FOR:



FULL SCALE PRINT IS ON 24" x 36" MEDIA

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:
RINGS 270
 5525 PARKCENTER CIRCLE
 DUBLIN, OH 43017
 FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:
CLMB-305

A&E NUMBER: PR52818
 DESIGNED BY: GSH
 DRAWN BY: JBH
 DATE: 04/27/2017

SHEET TITLE:
GENERATOR SPECIFICATIONS

SHEET NUMBER:
C-10

PREPARED FOR:



FULL SCALE PRINT IS ON 24" x 36" MEDIA

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
 DUBLIN, OH 43017
 FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

DESIGNED BY: GSH
 DRAWN BY: JBH
 DATE: 04/27/2017

SHEET TITLE:

GENERATOR CIRCUIT SCHEDULE

SHEET NUMBER:

C-11

VZV GENERATOR RETROFIT ALARM LAYOUT 02/04/2010 GFH
 New GEN PROG ALARM layout
 Replaces existing alarm positions on BLK#2
 All GEN PROG ALARMS on BLK#1 to remain the same

ROW	DESIGNATION	NOMENCLATURE	RELAY	CONTACT	WIRE COLOR
1	GEN PROG ALARM J1	GEN OVERCRANK	1	1	WBL
2	GEN PROG ALARM J1	GEN OVERCRANK	1	2	BLW
3	GEN PROG ALARM J2	HIGH WATER TEMP	2	1	W/O
4	GEN PROG ALARM J2	HIGH WATER TEMP	2	2	O/W
5	GEN PROG ALARM J3	PRE-LOW OIL PRESSURE	3	1	WGR
6	GEN PROG ALARM J3	PRE-LOW OIL PRESSURE	3	2	GRW
7	GEN PROG ALARM J4	PRE-HIGH WATER TEMP	4	1	WBR
8	GEN PROG ALARM J4	PRE-HIGH WATER TEMP	4	2	BRW
9	GEN PROG ALARM J5	PRE-LOW FUEL	5	1	WSL
10	GEN PROG ALARM J5	PRE-LOW FUEL	5	2	SLW
11	GEN PROG ALARM J6	BATTERY CHARGER FAIL	6	1	REBL
12	GEN PROG ALARM J6	BATTERY CHARGER FAIL	6	2	BLR
13	GEN PROG ALARM J7	GEN RUN	7	1	RO
14	GEN PROG ALARM J7	GEN RUN	7	2	OR
15	GEN PROG ALARM J8	GEN NOT IN AUTO	8	1	ROR
16	GEN PROG ALARM J8	GEN NOT IN AUTO	8	2	GRB
17	GENERATOR SUMMARY ALARM	SUMMARY	9	C	RBR
18	GENERATOR SUMMARY ALARM	SUMMARY	9	NC	BRB
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35	SUB-PANEL AC POWER FAIL	EXT AC CKT SUB-PANEL	RELAY	NO	WBL
36	SUB-PANEL AC POWER FAIL	EXT AC CKT SUB-PANEL	RELAY	C	BLW
37	EXTERNAL AC CIRCUIT TVSS	LAE(TVSS3)	SA	NO	W/O
38	EXTERNAL AC CIRCUIT TVSS	LAE(TVSS3)	SA	C	O/W
39	GEN. FAIL COMMON (PROG RELAY)	GPR2	GEN	NO	WBL
40	GEN. FAIL COMMON (PROG RELAY)	GPR2	GEN	C	BLW
41	CATCH BASIN (PROG RELAY #4)	GPR4	GEN	NO	W/O
42	CATCH BASIN (PROG RELAY #4)	GPR4	GEN	C	O/W
43	UTILITY POWER FAIL	PFA	ATS	NO	WGR
44	UTILITY POWER FAIL	PFA	ATS	C	GRW
45	ATS/UTILITY SURGE ARREST	LAU(TVSS1)	ATS	NC	WBR
46	ATS/UTILITY SURGE ARREST	LAU(TVSS1)	ATS	C	BRW
47	ATS/GEN SURGE ARREST	LAG(TVSS2)	ATS	NC	WSL
48	ATS/GEN SURGE ARREST	LAG(TVSS2)	ATS	C	SLW
49	ATS/ILC NOT IN AUTO	ATS/ILC	ILC	NC	RWB
50	ATS/ILC NOT IN AUTO	ATS/ILC	ILC	C	BLR

NOTE: This document pertains to the install of the generator related alarms only. Adjust the placement of the alarms on TB1 as required based on current site configuration. For LP or Natural Gas generators substitute Pre-Low Water Temp for Pre-Low Fuel alarm on J5.

ROW	CABLE #	DESIGNATION	CONTACT	ARRESTOR MODEL
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19	4	1 GEN. FAIL COMMON (PROG RELAY #2)	GPR2	
20	4	2 GEN. FAIL COMMON (PROG RELAY #2)	GPR2	66PO60
21	4	3 CATCH BASIN (PROG RELAY #4)	GPR4	
22	4	4 CATCH BASIN (PROG RELAY #4)	GPR4	66PO60
23	7	1 UTILITY POWER FAIL	PFA	
24	7	2 UTILITY POWER FAIL	PFA	66PO60
25	7	3 ATS/UTILITY SURGE ARREST	LAU(TVSS1)	
26	7	4 ATS/UTILITY SURGE ARREST	LAU(TVSS1)	66PO60
27	7	5 ATS/GEN SURGE ARREST	LAG(TVSS2)	
28	7	6 ATS/GEN SURGE ARREST	LAG(TVSS2)	66PO60
29	7	7 ATS/ILC NOT IN AUTO	ATS/ILC	
30	7	8 ATS/ILC NOT IN AUTO	ATS/ILC	66PO60
31				
32				
33	6	1 AI REMOTE RS232 PORT	DB9 PIN 2	
34	6	2 AI REMOTE RS232 PORT	DB9 PIN 3	66PO15
35	6	3 AI REMOTE RS232 PORT	DB9 PIN 5	66PO15
36				
37				
38				
39				
40				
41				
42				
43				
44				
45	5	1 21LT ANNUNCIATOR PANEL	RS485 (+)	
46	5	2 21LT ANNUNCIATOR PANEL	RS485 (-)	66PO15
47				
48	5	4 21LT ANNUNCIATOR PANEL	12V (-)	66PO60
49				
50	5	3 21LT ANNUNCIATOR PANEL	12V (+)	66PO60

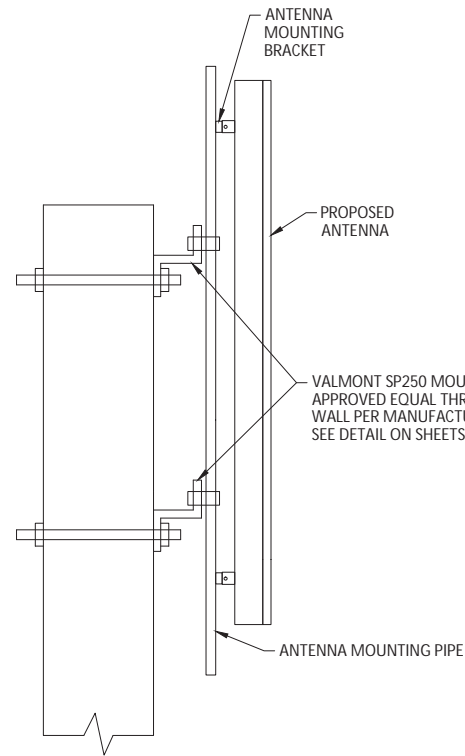
CABLE 4A

B/W
W/O
W/G

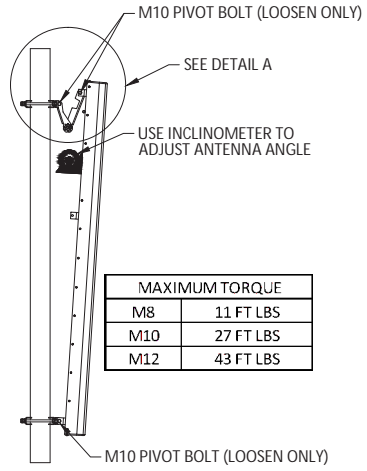
TVSS ALARM CABLE

CABLE 4A

- NOTES:
1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY WITH THE VERIZON WIRELESS FIELD REPRESENTATIVE AND/OR THE OWNER THAT THE ABOVE SCHEDULE IS STILL CURRENT. IN THE EVENT OF AN UPDATE, THE CONTRACTOR SHALL USE THE MOST CURRENT SCHEDULE.



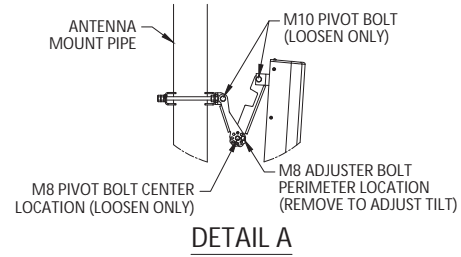
ANTENNA DETAIL
NOT TO SCALE



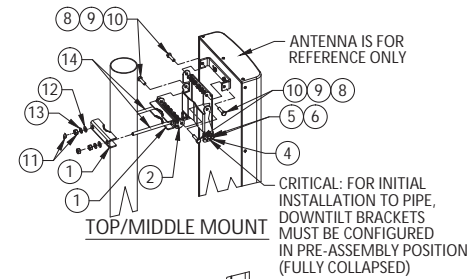
ANTENNA TILT ADJUSTMENT
NOT TO SCALE

1. LOOSEN PIVOT BOLTS. (DO NOT REMOVE)
2. REMOVE ADJUSTER BOLTS.
3. ADJUST ANTENNA ANGLE. (USE INCLINOMETER)
4. REINSTALL ADJUSTER BOLTS.
5. RETIGHTEN ALL BOLTS.
6. DO NOT TIGHTEN BOLTS ABOVE MAXIMUM TORQUE.

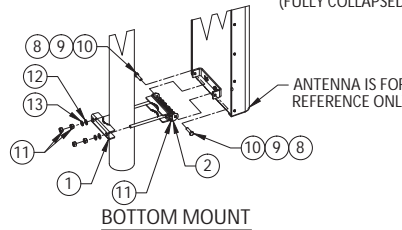
MAXIMUM TORQUE	
M8	11 FT LBS
M10	27 FT LBS
M12	43 FT LBS



DETAIL A



TOP/MIDDLE MOUNT



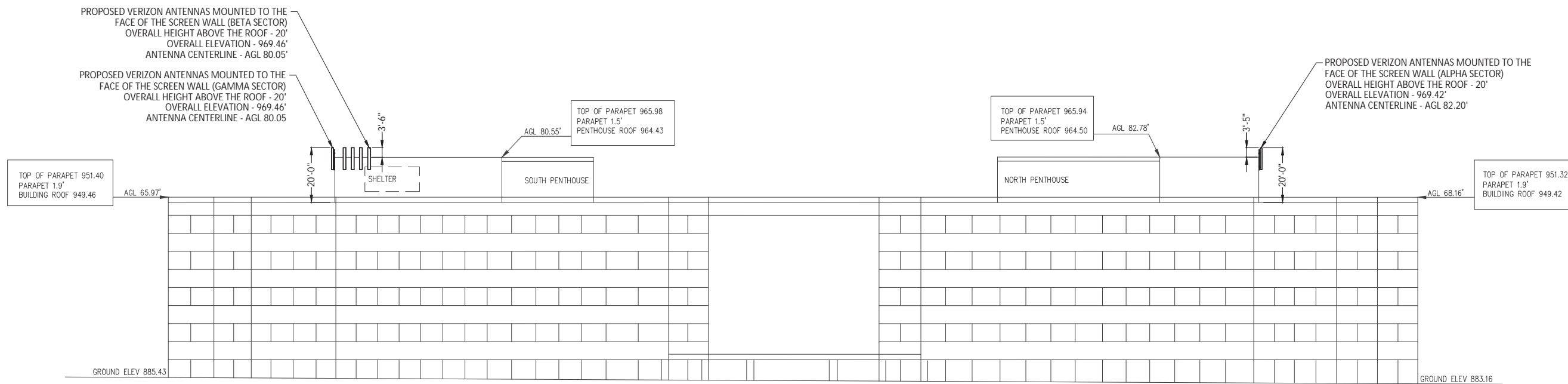
BOTTOM MOUNT

ANTENNA MOUNT INSTALLATION
NOT TO SCALE

Item #	Description	Qty	U/M
1	PIPE CLAMP BRACKET, NO FLANGE	4	EA
2	BRACKET, PIPE CLAMP INTERFACE	2	EA
3	NOTCHED BRACKET	1	EA
4	BRACKET	1	EA
5	M8 BOLT	4	EA
6	M8 WASHER	4	EA
8	M10 NUT	12	EA
9	M10 LOCK WASHER	6	EA
10	M10 BOLT	6	EA
11	M12 NUT	12	EA
12	M12 WASHER	4	EA
13	M12 LOCK WASHER	4	EA
14	M12 CARRIAGE BOLT	4	EA

NOTE:

ANTENNA MOUNTS, ORIENTATION AND TOWER PROFILE ARE DIAGRAMMATIC ONLY. ANTENNA SUPPORT PER STRUCTURE MANUFACTURER AND STRUCTURAL ANALYSIS.



EAST BUILDING ELEVATION
NOT TO SCALE

PREPARED BY:
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Engineers ■ Architects ■ Planners
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COLUMBUS, OH 43220
614-459-2050
FA 614-451-1385

PREPARED FOR:



FULL SCALE PRINT IS ON 24" x 36" MEDIA

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
DUBLIN, OH 43017
FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

DESIGNED BY: GSH

DRAWN BY: JBH

DATE: 04/27/2017

SHEET TITLE:
BUILDING ELEVATIONS & ANTENNA DETAILS

SHEET NUMBER:

C-12

GENERAL NOTES:

1. THE FACILITY IS AN UNOCCUPIED SPECIALIZED MOBILE RADIO FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. PRIOR TO THE SUBMISSION OF THE BIDS, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE FIELD CONDITIONS. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
4. THE CONTRACTOR SHALL RECEIVE IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY IDENTIFIED BY THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE NOTED.
6. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING BEST SKILLED PERSONNEL. 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 INCLUDING CONTACT AND COORDINATION WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
7. THE CONTRACTOR SHALL ACQUIRE SURVEYOR SERVICES TO PROVIDE CONSTRUCTION STAKING PRIOR TO START OF CONSTRUCTION. CONSTRUCTION STAKING SHALL IDENTIFY EASEMENT BOUNDARIES, LEASE BOUNDARIES, TOWER FOUNDATION CENTERS/BOUNDARIES, EQUIPMENT PAD CORNERS, FENCE CORNERS, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CONSTRUCTION STAKING.
8. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
10. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS BUILT DRAWINGS TO THE OWNER AFTER COMPLETION OF THE JOB.
11. MEANS AND METHODS OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, THE DESIGN AND PLACEMENT OF FORMS AND SHORING ARE THE RESPONSIBILITY OF THE CONTRACTOR.
12. ALL EARTHWORK, GRADING AND PAVING SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT STATE DEPARTMENT OF TRANSPORTATION STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION.
13. ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP.
14. ALL DIRT WILL BE DISPOSED OF OFFSITE BY THE CONTRACTOR.
15. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE SIGNS, BARRICADES, FENCING, TRAFFIC CONTROL DEVICES AND MEASURES, AND ALL OTHER MEASURES THAT ARE NECESSARY TO PROTECT THE SAFETY OF THE SITE AT ALL TIMES.
16. THE CONTRACTOR, BY AGREEING TO PERFORM THE WORK, AGREES TO INDEMNIFY AND HOLD HARMLESS THE OWNER, THE ENGINEER, THE MUNICIPALITY, AND ALL AGENTS AND ASSIGNS OF THOSE PARTIES, FROM ALL SUITS AND CLAIMS ARISING OUT OF THE PERFORMANCE OF SAID WORK, AND FURTHER AGREES TO DEFEND OR OTHERWISE PAY ALL LEGAL FEES ARISING OUT OF THE DEFENSE OF SAID PARTIES.
17. EXISTING UTILITIES, IF ANY, ARE SHOWN AS A GUIDE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATING ANYWHERE ON THE SITE.
18. ALL ADDENDA, IF ANY, MUST BE ACKNOWLEDGED WITH THE BID.

EXCAVATION/BACKFILL & COMPACTION NOTES:

1. THE OWNER HAS REQUESTED A GEOTECHNICAL EXPLORATION TO BE PERFORMED AT THE SITE. COPIES OF THE REPORT ARE AVAILABLE TO THE CONTRACTOR FOR REFERENCE ONLY. NEITHER THE OWNER OR THE ENGINEER GUARANTEE THE ACCURACY OR THE VALIDITY OF THE DATA CONTAINED THEREIN. NOR DO THEY ASSUME ANY RESPONSIBILITY FOR THE CONTRACTORS USE OR INTERPRETATION OF THE DATA CONTAINED THEREIN. THE CONTRACTOR SHOULD FAMILIARIZE HIMSELF WITH THE CONTENTS OF THE ABOVE REFERENCED REPORT PRIOR TO THE SUBMITTAL OF HIS BIDS.
2. REFER TO GEOTECHNICAL REPORT PROVIDED BY THE OWNER. FOUNDATION SHALL BEAR ON VIRGIN SOIL OR COMPACTED FILL MATERIAL CAPABLE OF SUPPORTING A MINIMUM SOIL BEARING PRESSURE AS STATED IN THE GEOTECHNICAL REPORT.
3. FOUNDATIONS SHALL BE BACKFILLED EVENLY AND BE ADEQUATELY BRACED ON ALL SIDES BY THE CONTRACTOR UNTIL IT HAS CURED FOR 72 HOURS (MINIMUM).
4. EXPANSIVE SOILS (CLAY) MAY REQUIRE SPECIAL CARE AT POINTS WHERE RIGID CONNECTIONS ARE MADE TO THE FOUNDATIONS (IE UNDERGROUND CONDUIT FEEDS, RIGID WAVEGUIDE BRIDGES ETC). ALLOWING FOR ADEQUATE DRAINAGE WILL LESSEN THIS EFFECT.
5. REMOVE ALL SOILS CONTAINING TOPSOIL, ORGANIC MATERIALS AND OR FILL MATERIALS FROM WITHIN THE AREA OF THE FOUNDATIONS.
6. PROOF ROLL RESULTING SUB-GRADE WITH A HEAVILY LOADED SINGLE AXLE DUMP TRUCK OR SIMILAR VEHICLE (20 TON LOAD), CONTRACTOR SHALL UNDERCUT AND REPLACE WITH ENGINEERED FILL (COMPACTED MATERIAL) ALL LOOSE SOFT OR UNSTABLE AREAS REVEALED DURING PROOF ROLLING AS DIRECTED BY THE TESTING AGENCY.
7. BACKFILL AND COMPACT THE AREA WITHIN THE FOUNDATIONS WITH GRANULAR MATERIALS.
8. THE CONTRACTOR SHALL EXCAVATE 8" BELOW GRADE AND SPRAY WITH WEED CONTROL AND PLACE GEOTEXTILE FABRIC, CLASS LL AGGREGATE BASE AND CLEAN ROCK AROUND THE ENTIRE FENCE AREA.
9. ENGINEERED FILL SHOULD CONSIST OF ENVIRONMENTALLY CLEAN APPROVED MATERIAL, FREE OF LUMPS, FROZEN SOIL, TOPSOIL OR OTHER DELETERIOUS MATERIAL.
10. ALL FILL MATERIALS REQUIRING COMPACTION SHALL BE PLACED IN LIFTS NOT EXCEEDING 9 INCHES AND COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D 1557 (MODIFIED PROCTOR) FILL MATERIALS NOT REQUIRING COMPACTION SHALL BE PLACED IN LIFTS NOT TO EXCEED 12 INCHES.
11. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND SPACING FOR THE EXCAVATION WORK IN ACCORDANCE WITH THE APPLICABLE SAFETY ORDINANCES.
12. LOOSE MATERIAL SHALL BE REMOVED FROM THE BOTTOM OF THE EXCAVATION AREA PRIOR TO PLACEMENT OF THE CONCRETE.
13. CONTRACTOR IS RESPONSIBLE FOR ALL COLD WEATHER EQUIPMENT SUCH AS GROUND THAWING EQUIPMENT AND FROST TEETH EQUIPPED TRENCHERS TO AVOID COLD WEATHER DELAYS, THESE SHALL BE INCLUDED IN THE ORIGINAL BID FOR THIS PROJECT. CHANGE ORDER REQUESTS AFTER CONSTRUCTION HAS STARTED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
14. CONTRACTOR IS RESPONSIBLE FOR ALL DE-WATERING COSTS ASSOCIATED WITH THIS PROJECT, WHETHER WATER IS SHOWN AS BEING PRESENT ON THE SOIL REPORT OR NOT. DE-WATERING COSTS MUST BE INCLUDED IN THE ORIGINAL BID FOR THIS PROJECT. CHANGE ORDERS SUBMITTED FOR DE-WATERING COSTS AFTER CONSTRUCTION HAS STARTED SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.

SOIL EROSION & SEDIMENT CONTROL NOTES:

1. REASONABLE CARE MUST BE TAKEN TO MINIMIZE SOIL EROSION. REFER TO PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL PREPARED BY THE U.S. SOIL AND CONSERVATION SERVICE.
2. ALL INLETS, PIPES, STRUCTURES, ROADS AND SWALES MUST BE FREE OF DIRT AND SILT, AND MAINTAINED DURING CONSTRUCTION ACTIVITY.
3. SOIL STOCKPILES SHALL HAVE A BERM OR TRENCH AROUND THE CIRCUMFERENCE TO CONTROL SILT IF REQUIRED, IF THE SOIL STOCKPILE IS TO REMAIN FOR NINE MONTHS OR LONGER, IT MUST HAVE ENOUGH VEGETATION TO CONTROL WATER AND WIND EROSION.
4. STRAW BALES MUST BE PLACED AND FIRMLY ANCHORED AROUND ALL INLETS, CATCH BASINS AND SWALES THAT ARE OR COULD RECEIVE SILT DURING THE COURSE OF CONSTRUCTION ACTIVITIES.
5. SILT FENCE SHALL BE USED TO CONTROL RUNOFF ASSOCIATED WITH SITE CONSTRUCTION.
6. ONCE CONSTRUCTION IS COMPLETE, REPLACE EROSION CONTROL DEVICES WITH SOD AND TOPSOIL.
7. ALL ADJACENT ROADWAYS MUST BE CLEAN AT ALL TIMES.
8. ADDITIONAL SOIL EROSION CONTROL DEVICES SHALL BE UNDERTAKEN IF DEEMED NECESSARY BY THE ENGINEERING INSPECTOR ANYTIME DURING THE COURSE OF CONSTRUCTION.

CONCRETE AND STEEL REINFORCEMENT NOTES:

1. ALL CONCRETE SHALL BE NORMAL WEIGHT AND SHALL ACHIEVE A COMPRESSIVE STRENGTH, FC = 4000 PSI AT 7 DAYS, UNLESS NOTED OTHERWISE. CEMENT SHALL CONFORM TO ASTM C150 TYPE LL. ALL EXPOSED CONCRETE SHALL BE ENTRAINED.
2. MAXIMUM AGGREGATE SIZE SHALL NOT EXCEED 3/4".
3. SLUMP OF CONCRETE SHALL BE 2" TO 5".
4. NO ADMIXTURES SHALL BE USED WITHOUT THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER.
5. ALL CONSTRUCTION AND EXPANSION JOINTS SHALL BE INSTALLED PER THE DRAWINGS.
6. ALL EXPOSED CORNERS OF CONCRETE WORK SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE
7. CURING OF CONCRETE SHALL BE PER ACI 308_89, STANDARD PRACTICE FOR CURING CONCRETE.
8. PLACE CONCRETE IN ACCORDANCE WITH ACI 304_89.
9. HOT WEATHER CONCRETE SHALL BE PER ACI 305R_89, COLD WEATHER CONCRETING SHALL BE PER ACI 306R_89.
10. PRIOR TO THE PLACEMENT OF THE CONCRETE. THE CONTRACTOR SHALL PROVIDE A MINIMUM 24 HOUR WRITTEN NOTICE TO THE OWNERS REPRESENTATIVE AND THE TESTING AGENCY.
11. PROVIDE TEST CYLINDERS AS FOLLOWS:
 - A. EQUIPMENT PAD FOUNDATION: (1) CYLINDER @ 7 DAYS, (1) CYLINDER @ 28 DAYS.
 - B. TOWER FOUNDATION (IF APPLICABLE): (1) CYLINDER @ 7 DAYS, (1) CYLINDER @ 28 DAYS.
12. REINFORCED STEEL SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60.
13. ALL WELDED WIRE FABRIC MUST CONFORM TO ASTM A 185.
14. UNLESS NOTED OTHERWISE ALL REINFORCING STEEL SHALL BE LAPPED PER ACI CODE - 318.
15. ALL FORM WORK SHALL BE RIGID, TIGHT, LEVEL, PLUMB AND SUFFICIENTLY SHORED TO RESIST CONSTRUCTION LOAD CONDITIONS.
16. WELDING OF REINFORCING STEEL IS PROHIBITED.
17. ALL REBAR SPLICES SHALL BE CLASS "C", NO WELDING WILL BE ALLOWED.
18. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM-A184 AND ASTM-A185 FOR CAST IN PLACE CONCRETE.

PREPARED BY:
BURGESS & NIPLE
 Engineers ■ Architects ■ Planners
 5085 REED ROAD
 COLUMBUS, OH 43220
 614-459-2050
 FAX 614-451-1385

PREPARED FOR:



FULL SCALE PRINT IS ON 24" x 36" MEDIA

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:
RINGS 270
 5525 PARKCENTER CIRCLE
 DUBLIN, OH 43017
 FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:
CLMB-305

A&E NUMBER: PR52818
 DESIGNED BY: GSH
 DRAWN BY: JBH
 DATE: ##/##/####

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
C-13A

PREPARED BY:
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614-459-2050
FA 614-451-1385

PREPARED FOR:



FULL SCALE PRINT IS
ON 24" x 36" MEDIA

**CONSTRUCTION
DRAWINGS**

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
DUBLIN, OH 43017
FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818
DESIGNED BY: GSH
DRAWN BY: JBH
DATE: 04/27/2017

SHEET TITLE:

**PERMANENT
POWER DETAILS**

SHEET NUMBER:

E-1

ELECTRICAL - GENERAL NOTES:

THE GENERAL NOTES AND ACCOMPANYING DRAWINGS ARE TO INDICATE THE PROVISIONS AND REQUIREMENTS BY THE ELECTRICAL CONTRACTOR OF ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

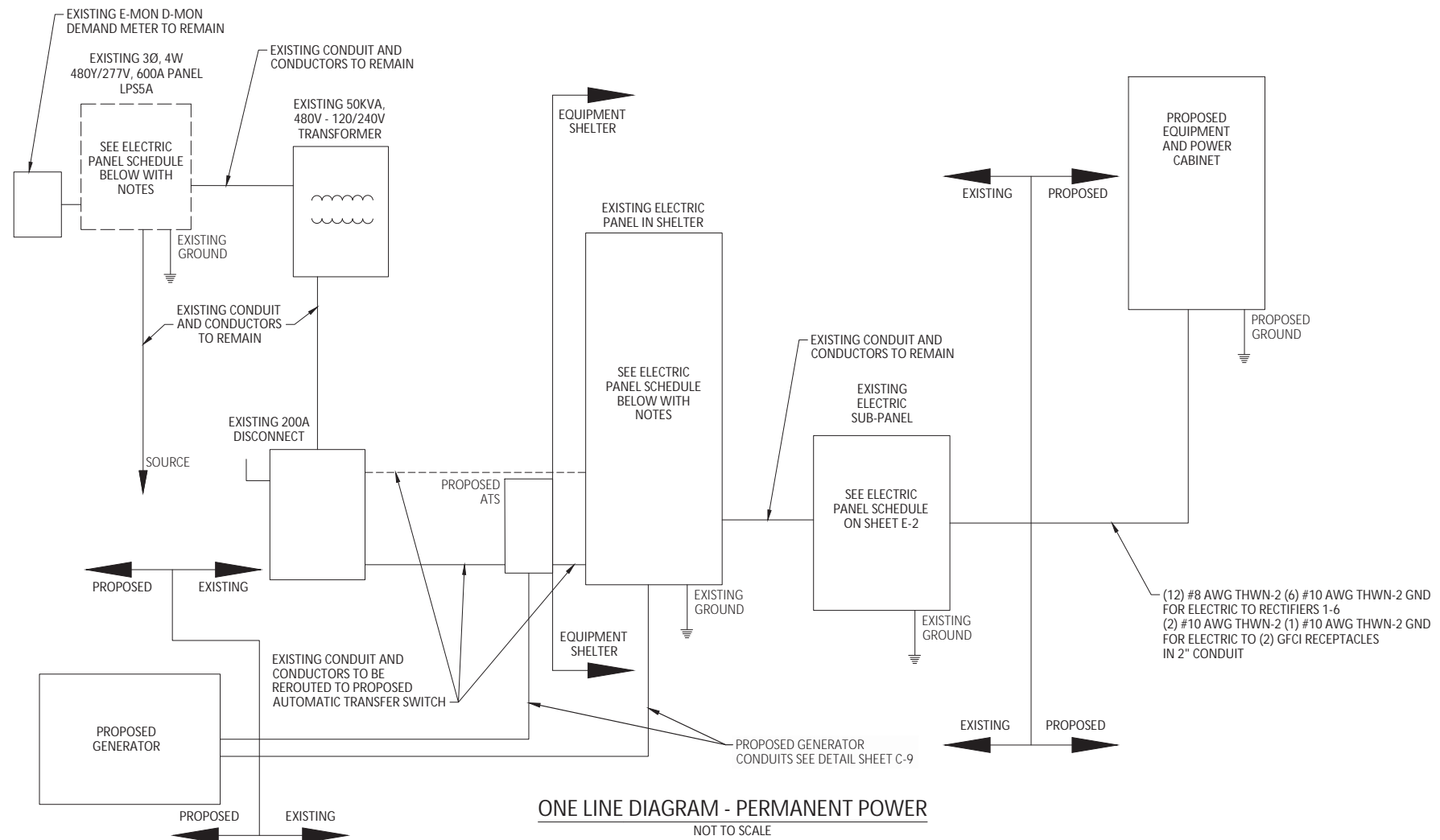
1. THE INSTALLATION, PROVISIONS, AND CONNECTION OF A GROUND ROD (ELECTRODE) SYSTEM AS INDICATED IN THE DRAWINGS.
2. THE INSTALLATION AND PROVISION OF AN ELECTRICAL SERVICE (OVERHEAD OR UNDERGROUND) AND ALL CONDUIT AND WIRE ASSOCIATED WITH IT AS INDICATED AND/OR REQUIRED ON PLANS.
3. THE INSTALLATION, PROVISION OF CONDUIT AND CONNECTIONS FOR LOCAL TELEPHONE SERVICE.
4. UNDERGROUND CONDUITS SHALL BE PVC SCH 40 UNLESS OTHERWISE NOTED. ALL EXPOSED EXTERIOR CONDUITS SHALL BE RGC AND ALL INTERIOR CONDUITS SHALL BE EMT.
5. ALL PULL STRINGS SHALL BE LEFT IN CONDUITS (PVC, RGC, AND EMT) FOR FUTURE USE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL SERVICE ENTRANCE CONDUCTORS, CONDUIT AND METER SOCKET AND MAKE THE NECESSARY CONNECTION TO THE SERVICE EQUIPMENT WITHIN THE CABINETS.

PRIOR TO THE SUBMISSION OF BIDS, THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS PROVIDED BY THE OWNER, FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION, CHECK STRUCTURAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, BEAMS, DOOR SWINGS, WINDOWS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BID.

UNLESS OTHERWISE NOTED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. FOR ALL EQUIPMENT FURNISHED BY OTHERS (FBO). ALL ASSOCIATED EQUIPMENT SHALL BE INSTALLED AND COMPLETELY WIRED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH MANUFACTURER'S WIRE DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICT.

CONTRACTOR RESPONSIBILITIES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND SECURING ALL REQUIRED PERMITS, LICENSES, INSPECTIONS, APPROVALS, AND PAYMENT OF ALL FEES.
2. THE INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE: STATE, LOCAL, AND NATIONAL CODES AS WELL AS THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING RECOGNIZED AUTHORITIES:
NEC NATIONAL ELECTRIC CODE
ANSI AMERICAN NATIONAL STANDARD INSTITUTE
IEEE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
ASTM AMERICAN SOCIETY FOR TESTING MATERIALS
NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
UL UNDERWRITERS LABORATORY, INC.
3. PRIOR TO COMMENCING WORK, THE ELECTRICAL CONTRACTOR SHALL CONFORM TO THE LOCAL UTILITY COMPANY'S REGULATIONS AND SHALL GET THE APPROVAL FROM SAME, BEFORE SUBMITTING HIS BID, TO DETERMINE FROM EACH UTILITY ADDITIONAL COSTS THEY MAY REQUIRE, AND SHALL BE INCLUDED IN HIS BID FOR CONTRACT.



480Y/277V, 3Ø, 4W, 600 AMP BUS	PANEL LOADING SCHEDULE							
600A MAIN: CB () SW () LUGS (X)	CONNECTED							
FEED THRU LUGS ()	PHASE	A	B	C	TOTAL	DEMAND		
SURFACE (X) FLUSH () COLUMN TYPE ()	KVA							
ENCLOSURE: NEMA 1() 3R(X) 12() 4X()	AMPS							
CIRCUIT DESCRIPTION	LOAD KVA	BKR./POLES	CKT. NO.	PHASE A B	CKT. NO.	BKR./POLES	LOAD KVA	CIRCUIT DESCRIPTION
LTS-CORE & BRIDGE			1	X	2			LTS-PENTHOUSE
ROOF-LIGHT			3	X	4			LTS-EAST NORTH
LTS-ATRIUM			5	X	6			SPARE
LTS-SOUTHWEST			7	X	8			LTS-NORTH CENTER
LTS-SOUTHEAST CENTER			9	X	10			LTS-LOBBY & VENDING
LTS-SOUTH			11	X	12			LTS-NORTH WEST
LTS-CENTER WEST			13	X	14			LTS-500
LTS-CENTER WEST			15	X	16			LTS-501 -> 510
LTS-EAST SOUTH			17	X	18			SPACE
NORTH ATRIUM LTS			19	X	20			
SOUTH ATRIUM LTS			21	X	22			NEXTEL
SPACE			23	X	24			SPACE
SPACE			25	X	26			
SPACE			27	X	28			NEXTEL
SPACE			29	X	30			SPACE
			31	X	32			
RPS5B			33	X	34			HEAT PUMP
			35	X	36			
			37	X	38			SPARE
RPS5A			39	X	40			SPARE
			41	X	42			LTS-EMERGENCY

EXISTING ELECTRICAL EQUIPMENT TO REMAIN AS PART OF THE PROPOSED INSTALLATION. AT THE COMPLETION OF THE PROJECT ALL BREAKERS AND DISCONNECTS SHALL BE ENERGIZED TO PROVIDE THE EXISTING SHELTER WITH POWER

EXISTING 3Ø, 4W 480Y/277V, 600A PANEL LPS5A SCHEDULE

(LOCATED IN THE 5TH FLOOR MECHANICAL ROOM)

240/120V, 1Ø, 3W, 200 AMP BUS	PANEL LOADING SCHEDULE							
200A MAIN: CB (X) SW () LUGS ()	CONNECTED							
FEED THRU LUGS ()	PHASE	A	B	C	TOTAL	DEMAND		
SURFACE (X) FLUSH () COLUMN TYPE ()	KVA							
ENCLOSURE: NEMA 1() 3R(X) 12() 4X()	AMPS							
CIRCUIT DESCRIPTION	LOAD KVA	BKR./POLES	CKT. NO.	PHASE A B	CKT. NO.	BKR./POLES	LOAD KVA	CIRCUIT DESCRIPTION
LIGHTING + EXIT LIGHT		20/1	1	X	2	30/2		
LEAD LAG CONTROLLER		20/1	3	X	4	xxx		FUTURE
RECEPTACLE		20/1	5	X	6	30/2		FUTURE
SMOKE DETECTOR		20/1	7	X	8	xxx		FUTURE
RECEPTACLE		20/1	9	X	10	30/2		FUTURE
SURGE PROTECTOR		60/2	11	X	12	xxx		FUTURE
		xxx	13	X	14	30/2		FUTURE
FUTURE		30/2	15	X	16	xxx		FUTURE
		xxx	17	X	18	30/2		FUTURE
FUTURE		30/2	19	X	20	xxx		FUTURE
		xxx	21	X	22	30/2		FUTURE
HVAC UNIT #1		35/2	23	X	24	xxx		SUB-PANEL
		xxx	25	X	26	125/2		SPACE
HVAC UNIT #2		35/2	27	X	28	xxx		
		xxx	29	X	30	---		

EXISTING ELECTRICAL EQUIPMENT TO REMAIN AS PART OF THE PROPOSED INSTALLATION. AT THE COMPLETION OF THE PROJECT ALL BREAKERS AND DISCONNECTS SHALL BE ENERGIZED TO PROVIDE THE EXISTING SHELTER WITH POWER

EXISTING 1Ø, 3W 240/120V, 200A PANEL SCHEDULE

(LOCATED IN THE EXISTING SHELTER)

PREPARED FOR:



FULL SCALE PRINT IS
 ON 24" x 36" MEDIA

CONSTRUCTION
 DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
 DUBLIN, OH 43017

FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

DESIGNED BY: GSH

DRAWN BY: JBH

DATE: 04/27/2017

SHEET TITLE:

PANEL
 SCHEDULES

SHEET NUMBER:

E-2

240/120V, 1Ø, 3W, 100 AMP BUS		PANEL LOADING SCHEDULE														
100A MAIN: CB () SW () LUGS (X)		CONNECTED														
FEED THRU LUGS ()		PHASE		A	B	C	TOTAL				DEMAND					
SURFACE (X) FLUSH () COLUMN TYPE ()		KVA														
ENCLOSURE: NEMA 1 () 3R(X) 12 () 4X ()		AMPS														
CIRCUIT DESCRIPTION	LOAD KVA	BKR./ POLES	CKT. NO.	PHASE	CKT. NO.	BKR./ POLES	LOAD KVA	CIRCUIT DESCRIPTION	LOAD KVA	BKR./ POLES	CKT. NO.	PHASE	CKT. NO.	BKR./ POLES	LOAD KVA	CIRCUIT DESCRIPTION
RECTIFIER #1	30/2	1	X		2	30/2		RECTIFIER #2								
	XXX	3		X	4	XXX										
RECTIFIER #3	30/2	5	X		6	30/2		RECTIFIER #4								
	XXX	7		X	8	XXX										
RECTIFIER #5	30/2	9	X		10	30/2		RECTIFIER #6								
	XXX	11		X	12	XXX										
RECTIFIER #7	30/2	13	X		14	30/2		RECTIFIER #8								
	XXX	15		X	16	XXX										
SPACE	---	17	X		18	---		SPACE								
SPACE	---	19		X	20	---		SPACE								
SPACE	---	21	X		22	---		SPACE								
SPACE	---	23		X	24	---		SPACE								

EXISTING ELECTRICAL EQUIPMENT TO REMAIN AS PART OF THE PROPOSED INSTALLATION. AT THE COMPLETION OF THE PROJECT ALL BREAKERS AND DISCONNECTS SHALL BE ENERGIZED TO PROVIDE THE EXISTING SHELTER WITH POWER

EXISTING SUB-PANEL SCHEDULE

(LOCATED IN THE EXISTING SHELTER)

240/120V, 1Ø, 3W, 100 AMP BUS		PANEL LOADING SCHEDULE														
100A MAIN: CB () SW () LUGS (X)		CONNECTED														
FEED THRU LUGS ()		PHASE		A	B	C	TOTAL				DEMAND					
SURFACE (X) FLUSH () COLUMN TYPE ()		KVA		5.72	5.72		11.44				11.44					
ENCLOSURE: NEMA 1 () 3R(X) 12 () 4X ()		AMPS		47.7	47.7						47.7					
CIRCUIT DESCRIPTION	LOAD KVA	BKR./ POLES	CKT. NO.	PHASE	CKT. NO.	BKR./ POLES	LOAD KVA	CIRCUIT DESCRIPTION	LOAD KVA	BKR./ POLES	CKT. NO.	PHASE	CKT. NO.	BKR./ POLES	LOAD KVA	CIRCUIT DESCRIPTION
RECTIFIER #1	1.43	30/2	1	X	2	30/2	1.43	RECTIFIER #2								
	1.43	XXX	3		4	XXX	1.43									
RECTIFIER #3	1.43	30/2	5	X	6	30/2	1.43	RECTIFIER #4								
	1.43	XXX	7		8	XXX	1.43									
FUTURE		30/2	9	X	10	30/2		FUTURE								
		XXX	11		12	XXX										
FUTURE		30/2	13	X	14	30/2		FUTURE								
		XXX	15		16	XXX										
SPACE	---	17	X		18	---		SPACE								
SPACE	---	19		X	20	---		SPACE								
SPACE	---	21	X		22	---		SPACE								
SPACE	---	23		X	24	---		SPACE								

EXISTING ELECTRICAL EQUIPMENT TO REMAIN AS PART OF THE PROPOSED INSTALLATION. AT THE COMPLETION OF THE PROJECT ALL BREAKERS AND DISCONNECTS SHALL BE ENERGIZED TO PROVIDE THE EXISTING SHELTER WITH POWER

UPDATED SUB-PANEL SCHEDULE

(LOCATED IN THE EXISTING SHELTER)



CODED DRAWING NOTES

- ① EXISTING MAIN BUS BAR MOUNTED TO EXTERIOR OF SHELTER
- ② EXISTING SECONDARY BUS BAR MOUNTED TO INTERIOR OF SHELTER
- ③ EXISTING SECONDARY BUS BAR GROUNDED TO MAIN BUS BAR WITH #2 AWG GREEN INSULATED GROUND WIRE
- ④ PROPOSED EQUIPMENT GROUNDED TO SECONDARY BUS BAR WITH #2 AWG GREEN INSULATED GROUND WIRE
- ⑤ PROPOSED GENERATOR BUS BAR MOUNTED AT GENERATOR ENCLOSURE LOCATION
- ⑥ PROPOSED GENERATOR ENCLOSURE GROUNDED TO GENERATOR BUS BAR AT TWO LOCATIONS WITH #2 AWG SBTC GROUND WIRE IN 3/4" SCH 40 PVC CONDUIT
- ⑦ PROPOSED GENERATOR BUS BAR GROUNDED TO MAIN BUS BAR WITH #2 AWG SBTC GROUND WIRE IN 3/4" SCH 40 PVC CONDUIT
- ⑧ PROPOSED AUTOMATIC TRANSFER SWITCH (ATS) GROUNDED TO MAIN BUS BAR WITH #2 AWG SBTC GROUND WIRE IN 3/4" SCH 40 PVC CONDUIT
- ⑨ EXISTING MAIN BUS BAR PREVIOUSLY GROUNDED TO BUILDING STEEL TO REMAIN AS PART OF THE INSTALLATION
- ⑩ EXISTING MAIN BUS BAR ADDITIONALLY GROUNDED TO EXISTING ROOF-TOP LIGHTNING PROTECTION SYSTEM. CONTRACTOR TO COORDINATE THE LIGHTNING PROTECTION COMPANY NOTED ON SHEET C-1

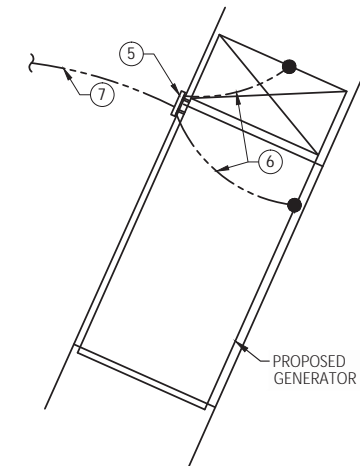
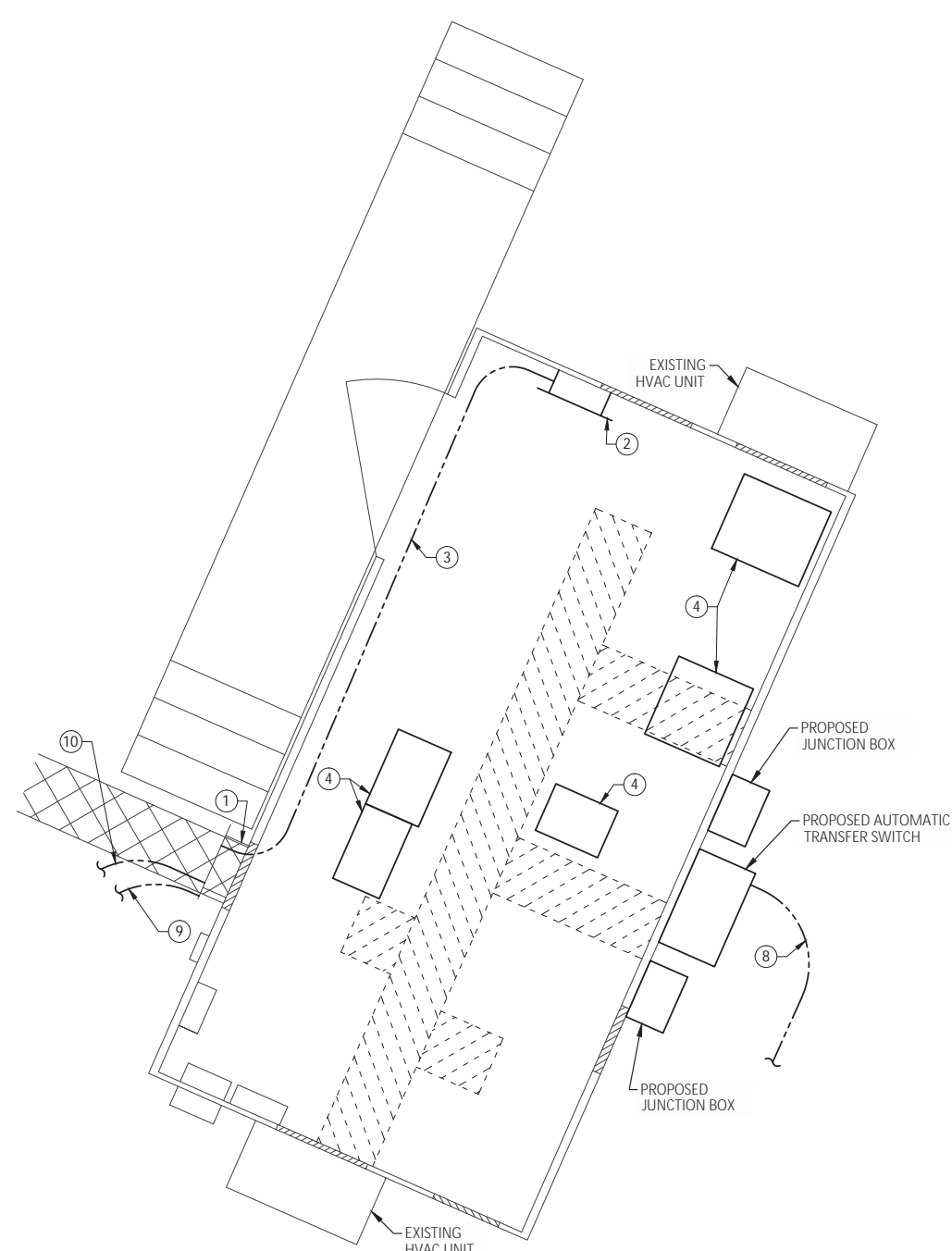
NOTES:

- 1. SERVICE BOND IS TO BE MADE BY DEVICES (STRAPS, SCREWS, ETC.) SUPPLIED BY EQUIPMENT MANUFACTURER. IF NO SUCH DEVICE IS SUPPLIED, BOND IS TO BE MADE IN ACCORDANCE WITH NEC ARTICLE 250.
- 2. WHEN SERVICE OVERCURRENT DISCONNECT IS FIELD INSTALLED AND HAS A NEUTRAL TO GROUND CONNECTION ESTABLISHED, REMOVE NEUTRAL TO GROUND CONNECTION IN MANUAL TRANSFER.
- 3. ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARRELL CONNECTIONS.
- 4. CONNECT ONE #2 GREEN INSULATED COPPER WIRE TO PANEL GROUND BUS.
- 5. PROVIDE "ELECTRIC MOTION" TAMPER RESISTANT BUS BARS AT BULKHEAD AND ABOVE THE TURN AT THE ICE BRIDGE. UTILITY H-FRAME BUS BAR (IF REQUIRED) WILL BE AN ELECTRIC MOTION TINNED COPPER BUS BAR ON RED SEAL INSULATORS & STAINLESS STEEL BRACKET. COAT WITH ELECTRIC MOTION ANTI-THEFT COMPOUND.
- 6. IF A FENCE IS LOCATED WITHIN 25 FEET OF THE TOWER RING GROUND, OR 6 FEET FROM THE EQUIPMENT PAD GROUND RING, BOND THE:
 - **** FENCE TO THE RING
 - **** FENCE POSTS TO THE RING AT DISTANCES NOT TO EXCEED 20 FEET OPENINGS (E.G. GATES) ACROSS THE FENCE

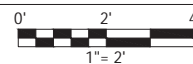
NOTE: ACTUAL RESISTANCE MUST BE MEASURED PRIOR TO CONNECTION TO THE POWER GRID.

NOTE:
"NO-OX-ID" SANCHEM INC. IS THE APPROVED GROUNDING COMPOUND

NOTE: FOR ALL ABOVE GRADE CONNECTIONS TO TOWER, ICE BRIDGE, UTILITY H-FRAME, FENCE POSTS, GATE POSTS, GENERATORS, ETC... ALL OF THESE EXPOSED PIGTAILS SHALL BE WITH EMC MODEL #2223-TMC THEFT RESISTANT CABLE. THESE PIGTAILS SHALL THEN HAVE THE SHIELDS STRIPPED BACK AND CADWELDED TO THE TOWER AND EQUIPMENT PAD GROUND RING. ON LONG BELOW GRADE RUNS ONLY, THE ABOVE GROUND PORTIONS (FROM 24" BELOW GRADE UP TO ABOVE GRADE) SHALL BE IN THE EM THEFT RESISTANT CABLE. CADWELD CONNECTIONS FOR IN-LINE BUT SPLICE FROM #2 TO THE EM CABLE SHALL BE WITH SSC-1T.



EQUIPMENT SHELTER GROUNDING PLAN



PREPARED BY:
BURGESS NIPLE
Engineers ■ Architects ■ Planners

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PREPARED FOR:

NEW PAR
DIVERSA
verizon

FULL SCALE PRINT IS ON 24" x 36" MEDIA

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
DUBLIN, OH 43017
FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

DESIGNED BY: GSH
DRAWN BY: JBH
DATE: 04/27/2017

SHEET TITLE:

GROUNDING PLAN

SHEET NUMBER:

G-1

PREPARED FOR:



FULL SCALE PRINT IS ON 24" x 36" MEDIA

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
 DUBLIN, OH 43017
 FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

DESIGNED BY: GSH
 DRAWN BY: JBH
 DATE: 04/27/2017

SHEET TITLE:

GROUNDING PLAN

SHEET NUMBER:

G-2

CODED DRAWING NOTES

- ① PROPOSED SECTOR BUS BAR MOUNTED AT ROOFTOP EQUIPMENT SLED LOCATION
- ② PROPOSED ANTENNA AND ANTENNA MOUNT (TYP OF 4 PER SECTOR) GROUNDED PER MANUFACTURER'S SPECIFICATIONS TO THE ANTENNA BUS BAR
- ③ PROPOSED REMOTE RADIOHEAD UNIT (RRU) (TYP OF 4 PER SECTOR) GROUNDED PER MANUFACTURER'S SPECIFICATIONS TO THE SECTOR BUS BAR
- ④ PROPOSED OVERVOLTAGE PROTECTION UNIT (OVP) GROUNDED PER MANUFACTURER'S SPECIFICATIONS TO THE SECTOR BUS BAR
- ⑤ PROPOSED SECTOR BUS BAR GROUNDED TO MAIN BUS BAR WITH #2 AWG SBTC GROUND WIRE IN 3/4" SCH 40 PVC CONDUIT
- ⑥ PROPOSED ANTENNA BUS BAR MOUNTED TO THE BACK OF THE EXISTING SCREEN WALL
- ⑦ PROPOSED ANTENNA BUS BAR GROUNDED TO THE SECTOR BUS BAR AT THE ROOFTOP EQUIPMENT SLED WITH #2 AWG SBTC GROUND WIRE IN 3/4" SCH 40 PVC CONDUIT
- ⑧ PROPOSED 1/2" DIAMETER SOLID COPPER AIR TERMINAL ATTACHED TO ANTENNA MOUNT. THE AIR TERMINAL SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND AT A HEIGHT AT LEAST 1' ABOVE THE PROPOSED ANTENNAS. THE GROUND WIRE FOR THE AIR TERMINAL SHALL BE CONNECTED TO THE ANTENNA BUS BAR.
- ⑨ PROPOSED SECTOR BUS BAR ADDITIONALLY GROUNDED TO EXISTING ROOF-TOP LIGHTNING PROTECTION SYSTEM. CONTRACTOR TO COORDINATE THE LIGHTNING PROTECTION COMPANY NOTED ON SHEET C-1

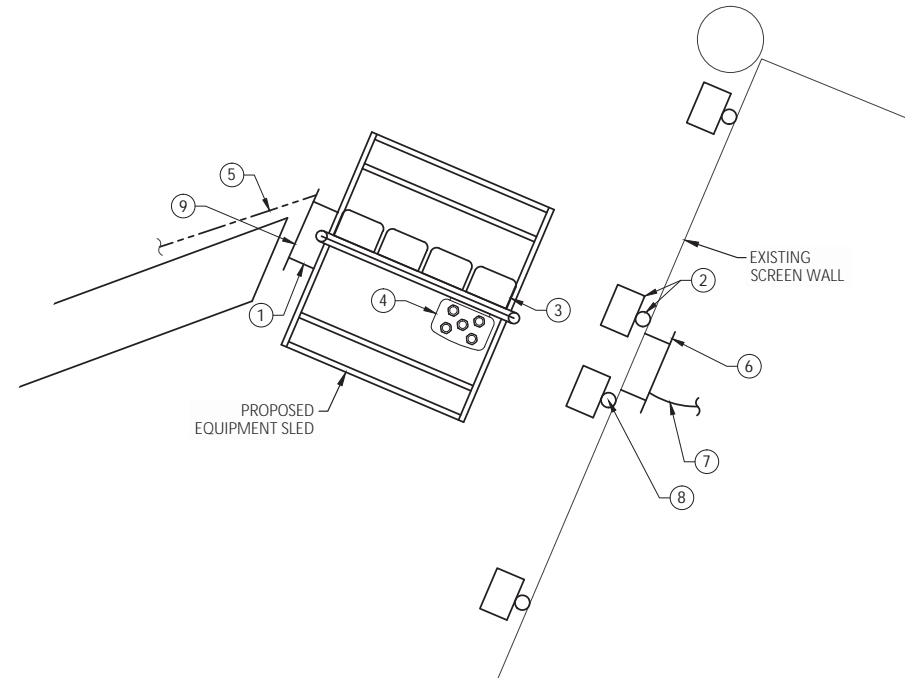
NOTES:

1. SERVICE BOND IS TO BE MADE BY DEVICES (STRAPS, SCREWS, ETC.) SUPPLIED BY EQUIPMENT MANUFACTURER. IF NO SUCH DEVICE IS SUPPLIED, BOND IS TO BE MADE IN ACCORDANCE WITH NEC ARTICLE 250.
2. WHEN SERVICE OVERCURRENT DISCONNECT IS FIELD INSTALLED AND HAS A NEUTRAL TO GROUND CONNECTION ESTABLISHED, REMOVE NEUTRAL TO GROUND CONNECTION IN MANUAL TRANSFER.
3. ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARRELL CONNECTIONS.
4. CONNECT ONE #2 GREEN INSULATED COPPER WIRE TO PANEL GROUND BUS.
5. PROVIDE "ELECTRIC MOTION" TAMPER RESISTANT BUS BARS AT BULKHEAD AND ABOVE THE TURN AT THE ICE BRIDGE. UTILITY H-FRAME BUS BAR (IF REQUIRED) WILL BE AN ELECTRIC MOTION TINNED COPPER BUS BAR ON RED SEAL INSULATORS & STAINLESS STEEL BRACKET. COAT WITH ELECTRIC MOTION ANTI-THEFT COMPOUND.
6. IF A FENCE IS LOCATED WITHIN 25 FEET OF THE TOWER RING GROUND, OR 6 FEET FROM THE EQUIPMENT PAD GROUND RING, BOND THE:
 - **** FENCE TO THE RING
 - **** FENCE POSTS TO THE RING AT DISTANCES NOT TO EXCEED 20 FEET OPENINGS (E.G. GATES) ACROSS THE FENCE

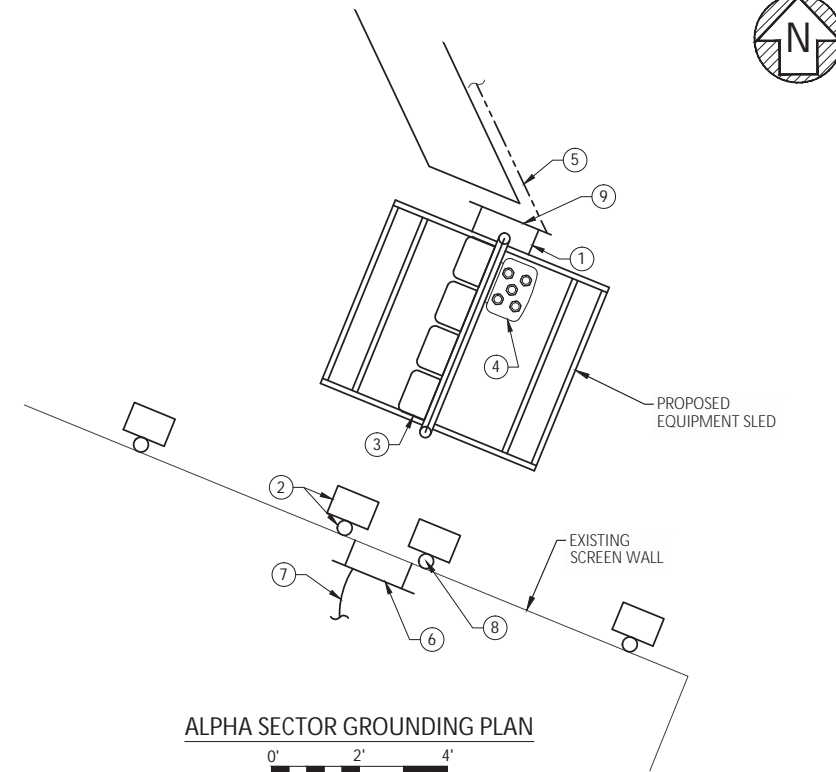
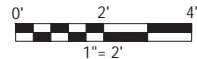
NOTE: ACTUAL RESISTANCE MUST BE MEASURED PRIOR TO CONNECTION TO THE POWER GRID.

NOTE: "NO-OX-ID" SANCHEM INC. IS THE APPROVED GROUNDING COMPOUND

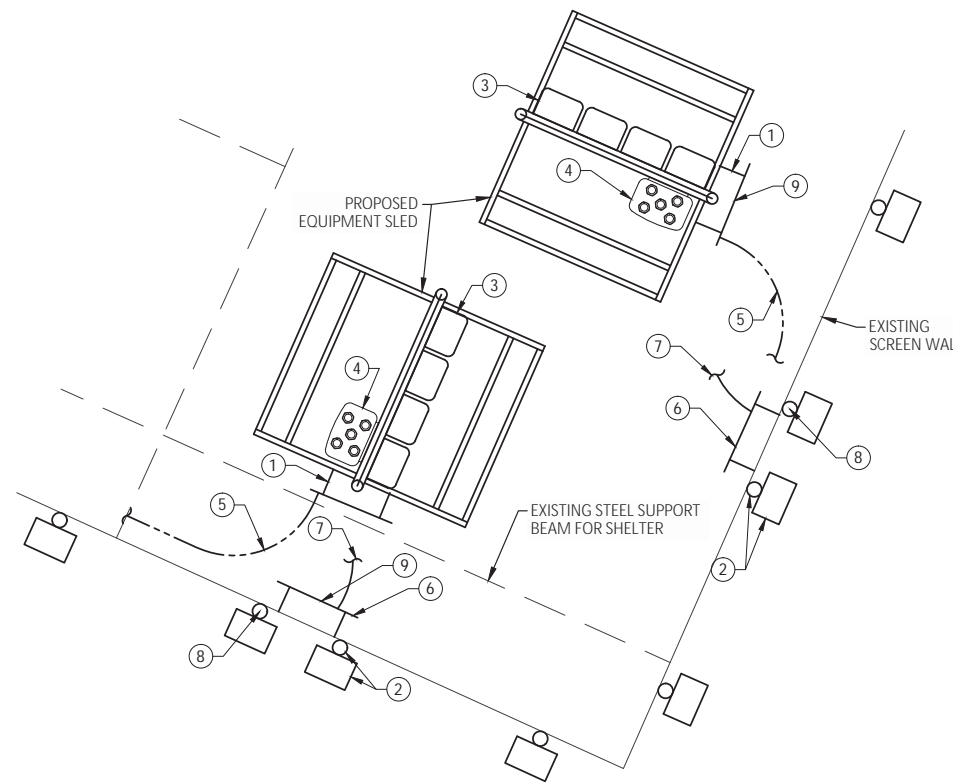
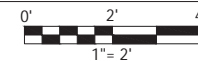
NOTE: FOR ALL ABOVE GRADE CONNECTIONS TO TOWER, ICE BRIDGE, UTILITY H-FRAME, FENCE POSTS, GATE POSTS, GENERATORS, ETC... ALL OF THESE EXPOSED PIGTAILS SHALL BE WITH EMC MODEL #2223-TMC THEFT RESISTANT CABLE. THESE PIGTAILS SHALL THEN HAVE THE SHIELDS STRIPPED BACK AND CADWELDED TO THE TOWER AND EQUIPMENT PAD GROUND RING. ON LONG BELOW GRADE RUNS ONLY, THE ABOVE GROUND PORTIONS (FROM 24" BELOW GRADE UP TO ABOVE GRADE) SHALL BE IN THE EM THEFT RESISTANT CABLE. CADWELD CONNECTIONS FOR IN-LINE BUT SPLICE FROM #2 TO THE EM CABLE SHALL BE WITH SSC-1T.



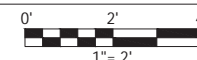
DELTA SECTOR GROUNDING PLAN

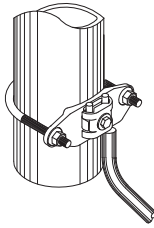


ALPHA SECTOR GROUNDING PLAN



BETA AND GAMMA SECTORS GROUNDING PLAN

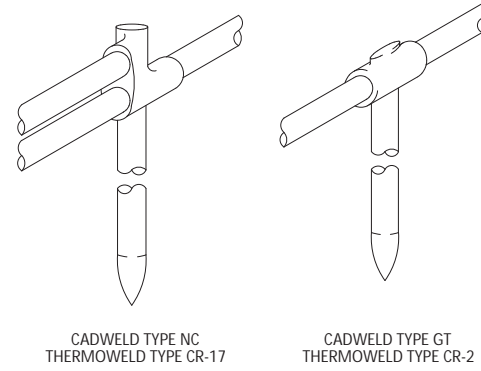




PART NUMBER	NOMINAL PIPE SIZE RANGE	PIPE OUTSIDE DIAMETER
EM FGC 1.5/2	1.5"-2"	2.5"-3"
EM FGC 2.5/3	2.5"-3"	3.5"-4"

110 GROPPPO DRIVE, CT 06098
 ELECTRIC MOTION COMPANY, INC. (860) 379-8515
 WWW.ELECTRICMOTIONCOMPANY.COM

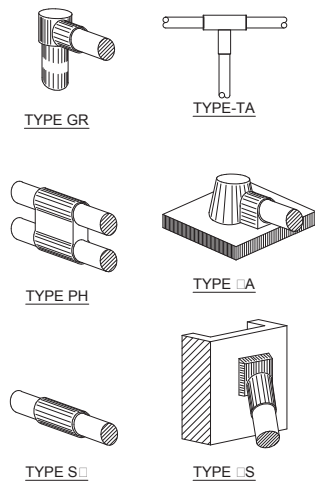
GROUND CLAMP DETAIL
NOT TO SCALE



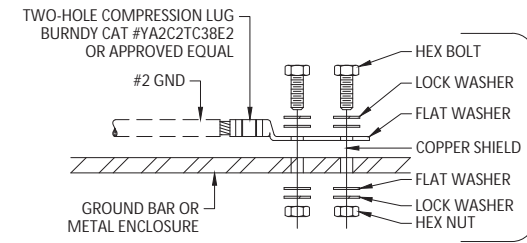
CADWELD TYPE NC
THERMOWELD TYPE CR-17

CADWELD TYPE GT
THERMOWELD TYPE CR-2

GROUND CADWELDS
NOT TO SCALE



CADWELDS (TYPICAL)
NOT TO SCALE

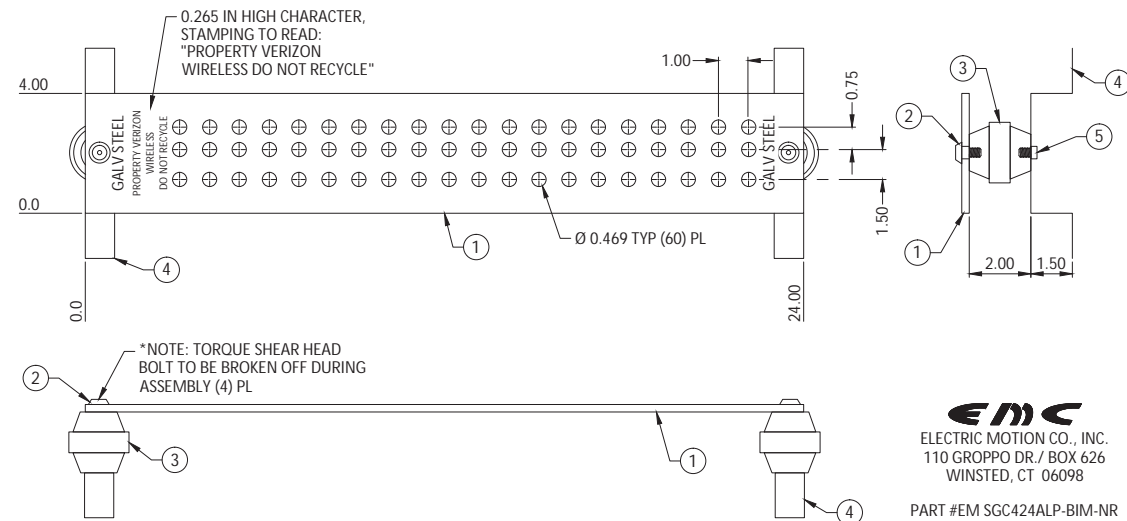


USE 1/4" FOR ATTACHMENT TO METAL ENCLOSURES & 3/8" FOR ATTACHMENT TO GROUND BARS

INSTALLATION NOTES:

1. BOLTS, WASHERS, AND NUTS SHALL BE STAINLESS STEEL.
2. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
3. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
4. APPLY COPPER-SHIELD COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
5. ALL METAL ELECTRICAL EQUIPMENT SHALL BE EXTERNALLY GROUNDED TO THE TOWER EGR. (PAINTED METAL SURFACES MUST HAVE SMALL SECTION OF PAINT REMOVED BEFORE INSTALLATION, AND SHALL BE SPRAYED LIGHTLY WITH CLEAR COAT LACQUER FINISH).

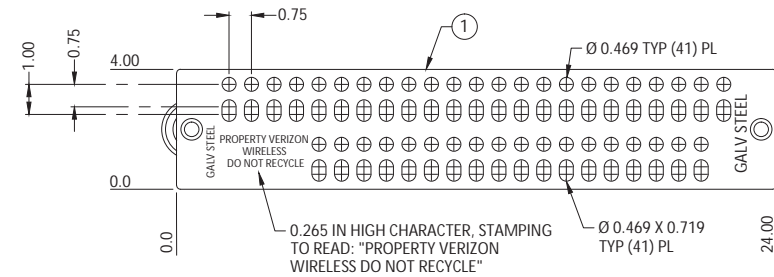
GROUNDING TO FLAT SURFACE TYPICAL
NOT TO SCALE



EMC
ELECTRIC MOTION CO., INC.
110 GROPPPO DR./ BOX 626
WINSTED, CT 06098
PART #EM SGC424ALP-BIM-NR

ITEM	PART NO.	DESCRIPTION	REQ
5	02-009-0660-000	3/8-16 X 1/2" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRASEAL; STAINLESS STEEL	2
4	02-009-0524-000	MOUNTING BRACKET; STAINLESS STEEL, 16 GA (.060) THICK	2
3	03-009-0118-000	THREADED (3/8-16) INSULATORS, 2" DIA X 2" HEIGHT; FIBERGLASS	2
2	02-009-0633-000	3/8-16 X 5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRASEAL; STAINLESS STEEL	2
1	02-009-0662-000	GROUND BAR, GALVANIZED STEEL 1/4" X 4" X 24"	1

MICROFLECT PORT BUS BAR
NOT TO SCALE



EMC
ELECTRIC MOTION CO., INC.
110 GROPPPO DR./ BOX 626
WINSTED, CT 06098
PART #EM SGM420-BI-NR

ATTENTION NOTE:
ALL NON LIKE METALS NEED DRAGON TOOTH WASHERS AND BELLEVILLE WASHERS

ITEM	PART NO.	DESCRIPTION	REQ
4	02-009-0663-000 (SUB-ASSEMBLY)	3/8-16 x 5/8" TORQUE SHEAR HEAD BOLT IN A STANDARD 4 x 6 BAG INCLUDES: (2) 3/8-16 X 5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRASEAL; STAINLESS STEEL (303) P/N 02-009-0603-000 (1) STANDARD 4" X 6" BAG (P/N 03-009-0209-00)	1
3	02-009-0633-000	3/8-16 x 5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRASEAL; STAINLESS STEEL (303)	2
2	03-009-0118-000	2" x 2" INSULATOR; FIBERGLASS	2
1	02-009-0672-000	20" GROUND BAR; STEEL; GALVANIZED	1

TOWER LEG BUS BAR
NOT TO SCALE

PREPARED BY:
BURGESS & NIPLE
Engineers ■ Architects ■ Planners
5085 REED ROAD
COLUMBUS, OH 43220
614-459-2050
FA 614-451-1385

PREPARED FOR:



FULL SCALE PRINT IS ON 24" x 36" MEDIA

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION

SITE INFORMATION:

RINGS 270

5525 PARKCENTER CIRCLE
DUBLIN, OH 43017
FRANKLIN COUNTY

VERIZON WIRELESS SITE NUMBER:

CLMB-305

A&E NUMBER: PR52818

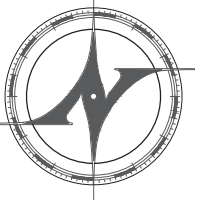
DESIGNED BY: GSH
DRAWN BY: JBH
DATE: ####/###/####

SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

G-2



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REVIEW SET	01/30/2017
PERMIT READY SET	02/13/2017
REVISIONS TO PERMIT SET	03/03/2017

Verizon
Roofing Equipment and Antenna Mounts

Rings 270
5525 Parkcenter Circle
Dublin, Ohio 43017

Project No: 17-0004

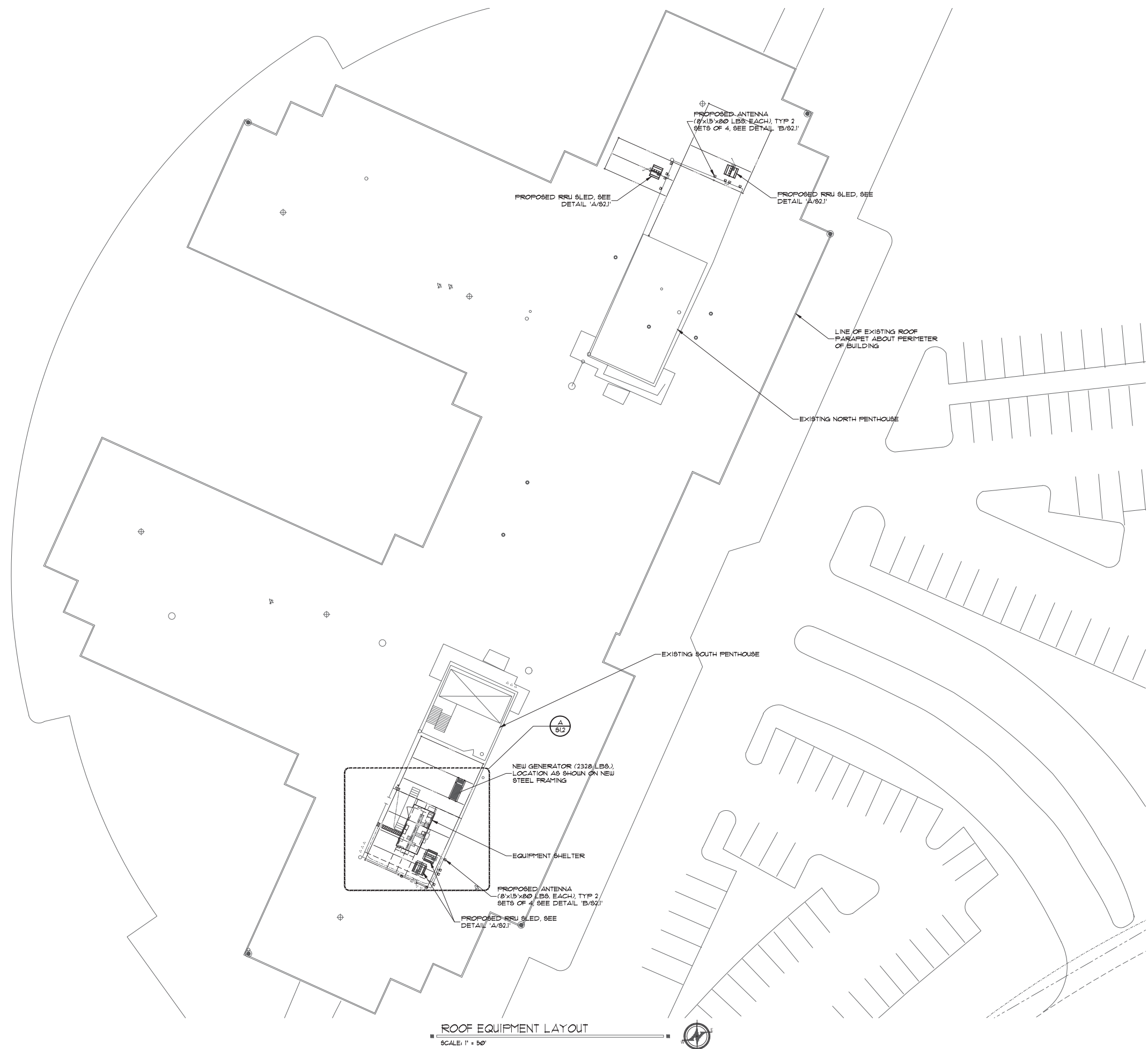
ORIGINAL SIGNATURE IN RED
REQUIRED FOR AUTHENTICITY



FOUNDATION, FLOOR
FRAMING, AND ROOF
FRAMING PLANS

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S1.1



ROOF EQUIPMENT LAYOUT
SCALE: 1" = 50'

STRUCTURAL SPECIFICATIONS

GENERAL

1. THESE REQUIREMENTS MAY BE SUPERCEDED BY MORE STRINGENT INFORMATION CONTAINED WITHIN THE DRAWINGS. THE MORE STRINGENT SHALL BE FOLLOWED.
2. DUE TO NEW AVENUE, LLC (ENGINEER) HAVING LIMITED ACCESS TO THE PROJECT SITE DURING THE DESIGN PHASE, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL PLAN AND EXISTING DIMENSIONS AND CONDITIONS. IF THERE ARE ANY DISCREPANCIES, NEW AVENUE, LLC SHALL BE NOTIFIED PRIOR TO PROCEEDING CONSTRUCTION OR THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAME.
3. CONTRACTOR SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL INSURE COMPLIANCE OF WORK TO THOSE CODES.
4. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY, AND COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS, AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY.
5. CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND SAFETY PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.
6. IF IN THE EVENT OF CONFLICT BETWEEN LOCAL, STATE, AND NATIONAL CODES, THE MORE STRINGENT SHALL GOVERN.
7. ALL CONSTRUCTION IS TO BE IN COMPLIANCE WITH THE FOLLOWING CODE: 2011 OHIO BUILDING CODE
8. THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL PROVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS PROVIDED BY NEW AVENUE, LLC.
9. THE MINIMUM DESIGN LIVE LOADS USED IN THE CALCULATIONS FOR THIS SET OF DRAWINGS ARE AS FOLLOWS:

ROOF LIVE LOAD	20 psf
WIND (V = 90 mph, EXP. B)	14.8 psf
GENERATOR W/ ENCLOSURE	2328 LBS.
10. THE STRUCTURAL ELEMENTS OF THIS BUILDING HAVE BEEN DESIGNED TO MEET STANDARD DEFLECTION CRITERIA AS FOLLOWS: (MAXIMUM LIVE LOAD DEFLECTION OF 1/2-INCH FOR ALL CASES WITH ATTACHED DRYWALL)

BEAMS	L/240
ALL OTHER STRUCT. ELEMENTS	L/240

SEISMIC PARAMETERS

SEISMIC SPECTRAL ACCELERATION, S _s :	14.82%
SEISMIC SPECTRAL ACCELERATION, S ₁ :	5.92%
SITE CLASS:	D
SITE COEFFICIENT, F _a :	1.0
SITE COEFFICIENT, F _v :	2.40
DESIGN SPECTRAL ACCELERATION, S _{ds} :	15.8%
DESIGN SPECTRAL ACCELERATION, S _{d1} :	5.9%
BASE SHEAR:	0.34 K
SEISMIC DESIGN CATEGORY:	B
BASIC SEISMIC FORCE RESISTING SYSTEM:	MOMENT RESISTING FRAME SYSTEM (RESPONSE COEFF 'R' = 3.50)
BUILDING PERIOD:	0.404 SECONDS
SEISMIC RESPONSE COEFFICIENT:	0.0452

STEEL

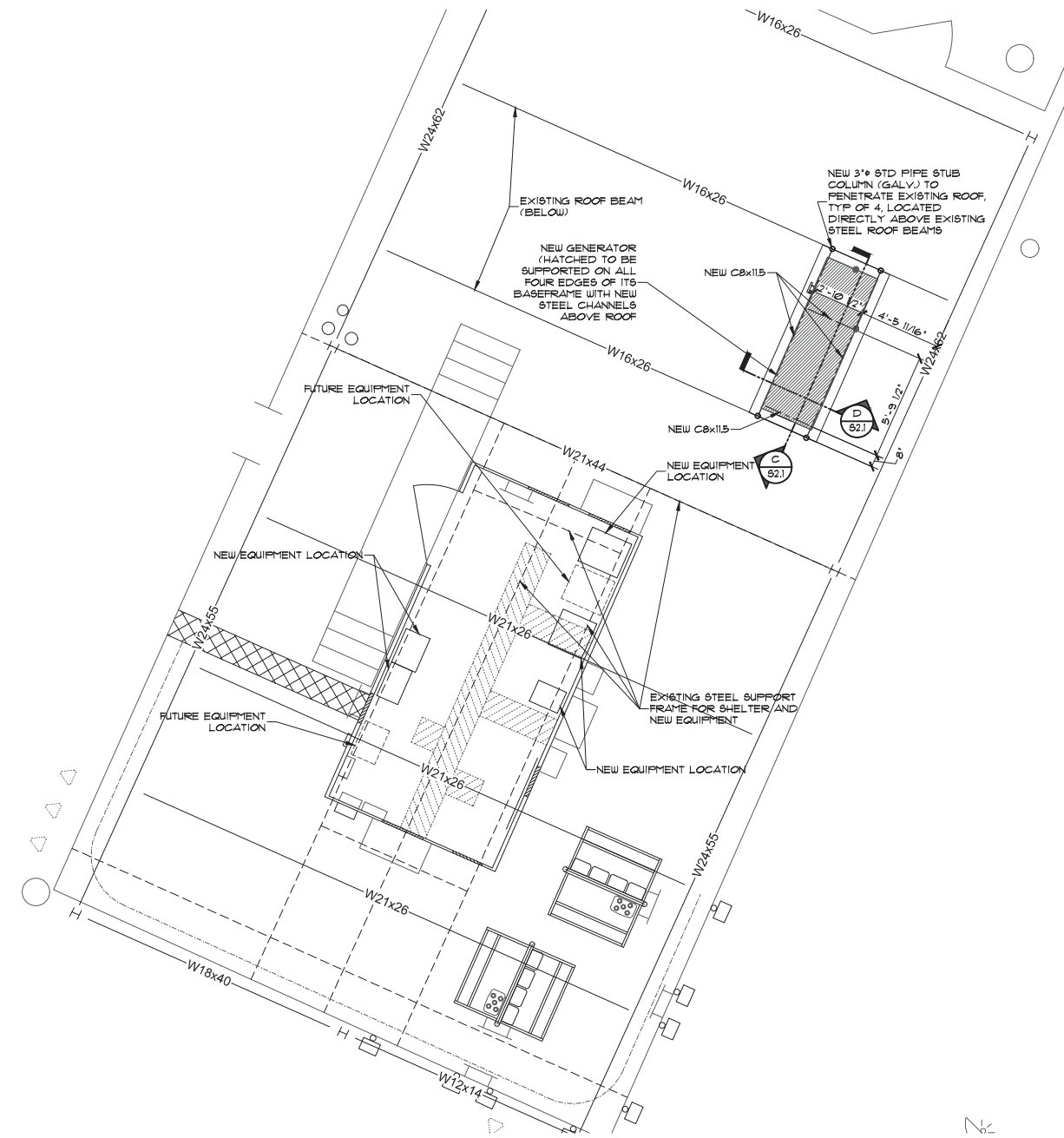
1. ALL STRUCTURAL STEEL SHAPES SPECIFIED IN THESE DRAWINGS SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL (13th EDITION) AND THE FOLLOWING:
 - 1.1. W (WIDE FLANGE SHAPES) - ASTM A-992 (50 ksi)
 - 1.2. L (ANGLE) / C (CHANNEL) SHAPES - ASTM A-36 (36 ksi)
 - 1.3. HSS (SQUARE / RECT. TUBE) SHAPES - ASTM A-500 Grade B (46 ksi)
 - 1.4. FIXED LENGTH ROUND COLUMNS - ASTM A-53 Grade B (35 ksi)
 - 1.5. PLATES - ASTM A-36 (36 ksi)
2. ALL WELDS SHALL COMPLY WITH THE STRUCTURAL WELDING CODE, AWS D11.10.
3. ALL BOLTS IN BOLTED CONNECTIONS SHALL CONFORM TO ASTM A-325 EXCEPT FOR THE SMALLER BOLTS IN THE STAIR TREAD CONNECTION, AND EXCEPT CAST-IN-PLACE ANCHOR BOLTS INTO CONCRETE SHALL CONFORM TO ASTM A-307 AND BE GALVANIZED. TITEN HD'S SHALL BE BY SIMPSON STRONG-TIE.
4. ALL STEEL TO STEEL CONNECTIONS SHALL CONFORM TO AISC STANDARDS.

METAL DECKING

1. ALL ROOF DECKING OF BUILDING SHALL BE TYPE 'B', 1/4" DEEP 20 GAUGE, MANUFACTURED FROM STEEL CONFORMING TO ASTM A1008-00 GRADES C, D, OR E OR FROM A653/A 653M-00 STRUCTURAL QUALITY GRADE 8033 OR HIGHER (33 ksi MIN. YIELD) OR EQUAL AS SPECIFIED ON THESE DRAWINGS. DECKING SHALL MEET FACTORY MUTUAL REQUIREMENTS.
2. LIVE LOAD = 20 PSF
3. MAXIMUM DEFLECTION = L/240
4. DECKING SHALL BE GALVANIZED IN SHOP WITH FINISH COLOR PAINTED IN FIELD (IF APPLICABLE) AND SELECTED BY BUSINESS OWNER WITH COORDINATION WITH ARCHITECT.
5. DECKING SHALL BE FASTENED TO STEEL CHANNELS (GIRDERS AND JOISTS) @ 12" o.c. w/ #12 TEK (SIMPSON XQ149/224 OR EQUAL) SCREWS (OR #10 PUDDLE WELDS) IN 3/4" PATTERN, SIDE LAPS WITH #10 TEK (X1510/6) FASTENERS REQUIRED @ 30" SPACING FOR DIAPHRAGM LOADING.
6. DECKING SHALL BE PROVIDED WITH 3 SPANS OR MORE WHERE APPLICABLE.

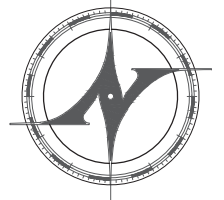
FIELD MODIFICATIONS

1. GALVANIZATION AREAS WHICH ARE MODIFIED IN THE FIELD LEAVING BARE METAL SHALL BE TOUCHED UP AND REPAIRED IN ACCORDANCE WITH ASTM A100 (WITH A MINIMUM THICKNESS OF 2.0 MILS) TO MAINTAIN UNIFORM BARRIER FROM THE ELEMENTS. USE OF ZINC-RICH PAINT, ZINC SPRAY, AND ZINC-BASED SOLDER ARE ALL ACCEPTABLE METHODS.



(A) EQUIPMENT SHELTER & GENERATOR SUPPORT PLAN DETAIL
SCALE: 1/4" = 1'-0"

• ROOFTOP



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614.884.8888

REVIEW SET	01/30/2011
PERMIT READY SET	02/13/2011
REVISIONS TO PERMIT SET	03/03/2011

Verizon
Rooftop Equipment and Antenna Mounts

Rings 270
5525 Parkcenter Circle
Dublin, Ohio 43017

Project No: 17-0004

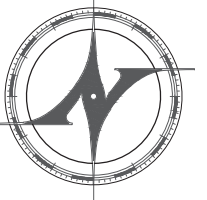
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**EQUIPMENT SHELTER
STRUCTURAL DETAILS**

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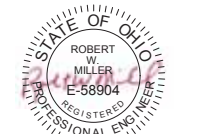
REVIEW SET	01/30/2017
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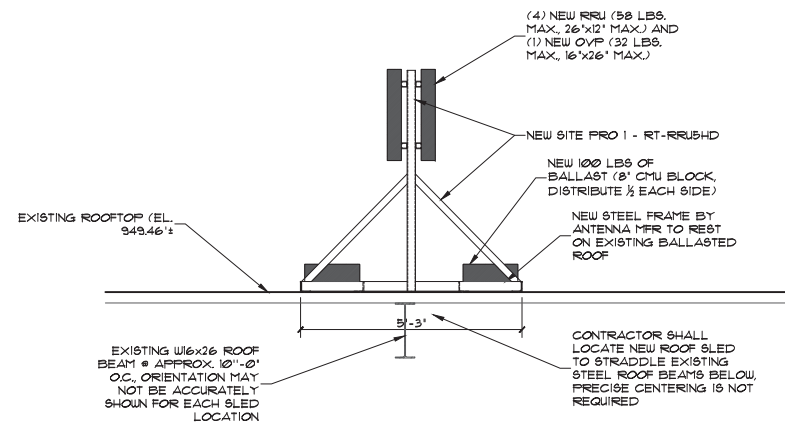
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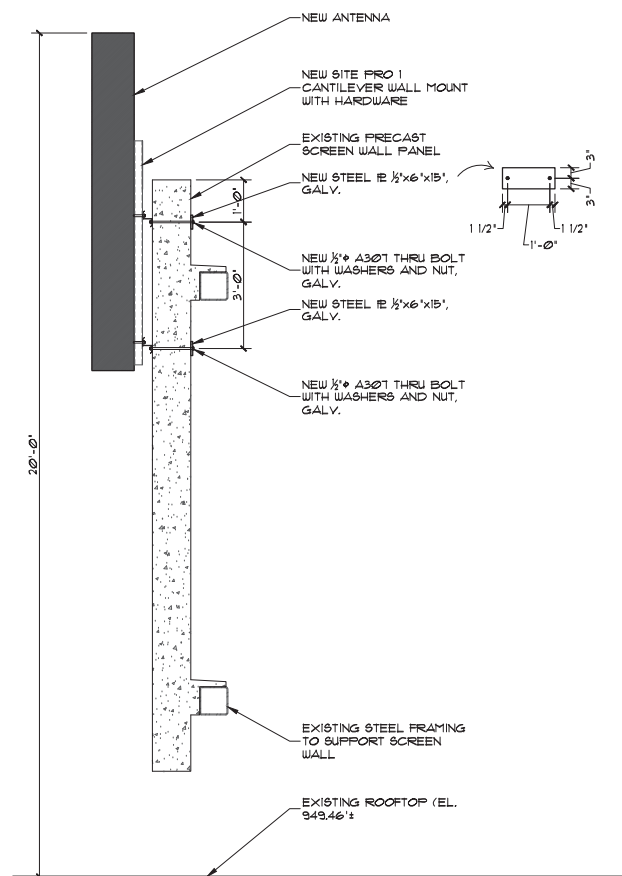
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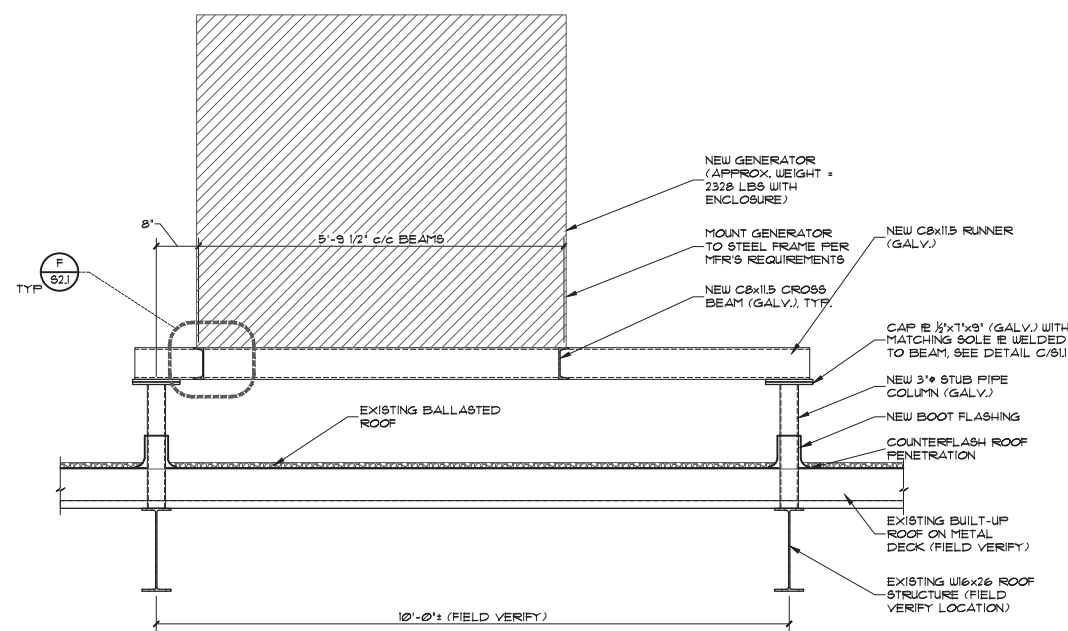
S2.1



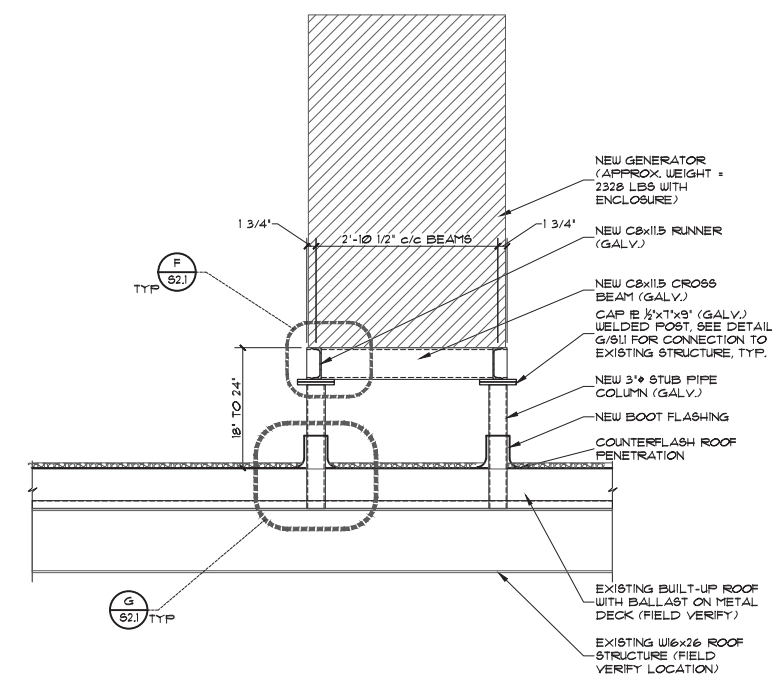
(A) SLED SIDE ELEVATION DETAIL
SCALE: 1" = 1'-0"
• FRU'S



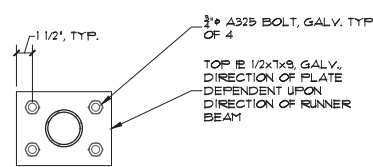
(B) SCREEN WALL MOUNT DETAIL
SCALE: 1" = 1'-0"
• ANTENNA



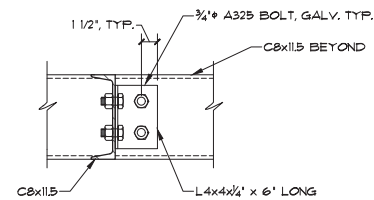
(C) SECTION
SCALE: 3/4" = 1'-0"



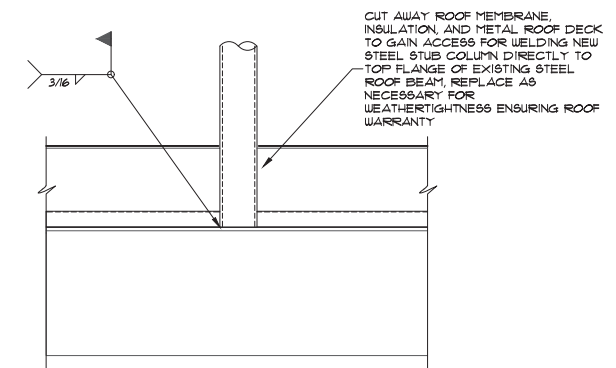
(D) SECTION
SCALE: 3/4" = 1'-0"



(E) SECTION
SCALE: 1/2" = 1'-0"



(F) SECTION
SCALE: 1-1/2" = 1'-0"



(G) DETAIL
SCALE: 1-1/2" = 1'-0"