

CONSULTANT TEAM

PROJECT CONSULTANT: TERRA CONSULTING GROUP, LTD.
 600 BUSSE HIGHWAY
 PARK RIDGE, IL 60068
 (847) 698-6400

SURVEYOR: WILLIAMS & WORKS 549
 OTTAWA AVE NW GRAND
 RAPIDS, MI 49503
 (616) 224-1500

STRUCTURAL: HUTTER TRANKINA ENGINEERING
 32 W 273 ARMY TRAIL RD, SUITE #100
 WAYNE, IL 60184
 (630) 513-6711

APPROVALS

REAL ESTATE: _____

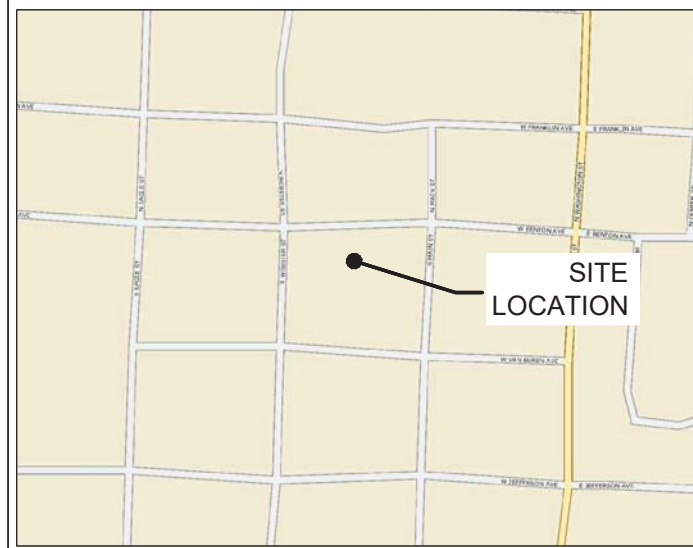
RF: _____

CONSTRUCTION: _____

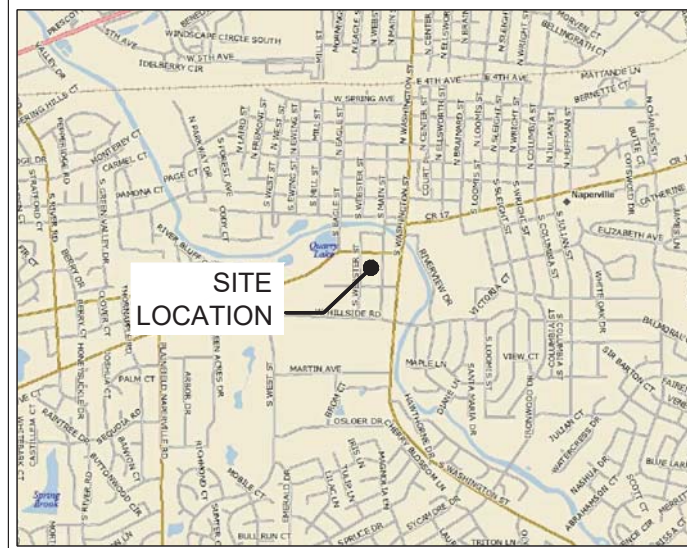
EQUIPMENT ENGINEERING: _____

OPERATIONS: _____

VICINITY MAP N.T.S.



REGIONAL MAP N.T.S.



PROJECT TYPE

PROPOSED LESSEE ANTENNAS AND EQUIPMENT PLATFORM TO BE MOUNTED ON EXISTING ROOF

PROJECT INFORMATION

SITE COORDINATES: LATITUDE: 41° 46' 27.71" N (1A CERTIFICATION)
 LONGITUDE: 88° 09' 01.14" W (1A CERTIFICATION)

GROUND ELEVATION: 679' (1A)

P.I.N. #: 07-13-418-017

ADDRESS: 55 S. MAIN STREET
 NAPERVILLE, IL 60540

UTILITIES: POWER: NAPERVILLE ELECTRIC (630) 420-6059 METER-SET. FIBER: T.B.D.

JURISDICTION: CITY OF NAPERVILLE

OCCUPANCY: COMMERCIAL BUILDING

ZONING: OR

CONSTRUCTION TYPE: ROOF TOP

GENERATOR TYPE: TAP BOX (NO PERMANENT GENERATOR)

PROPERTY OWNER: RPAI REAL ESTATE

LL CONTACT : LAURA PACINO
 PHONE: (630) 634-4283

APPLICANT: CHICAGO SMSA
 limited partnership
 d/b/a Verizon Wireless
 1515 WOODFIELD ROAD
 SCHAUMBURG, IL 60173

CONSTRUCTION MANAGER: MIKE EISENMENGER

REAL ESTATE MANAGER: NICK POLYDOROUS (847) 619-4281

GENERAL CONTRACTOR IS TO PROVIDE DESIGNER A SHOP DRAWING AND/ OR CUT SHEET FOR STEEL FABRICATION, ELECTRICAL COMPONENTS, MECHANICAL COMPONENTS PRIOR TO FABRICATION OR PURCHASE. IF THERE ARE ANY CONFLICTS WITH SPECIFIED PART/ MODEL NUMBERS, PLEASE BRING THAT TO THE ATTENTION OF THE DESIGNER.



FOR S1-S5 ONLY
 DATE: 7-30-18
 EXP 11/18

CHICAGO SMSA

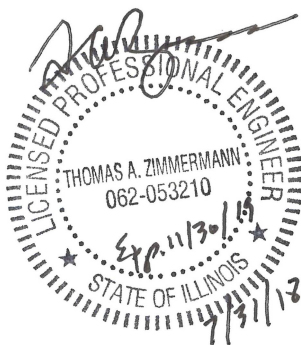
limited partnership

CHICAGO SMSA LIMITED PARTNERSHIP
 d/b/a VERIZON WIRELESS
 1515 WOODFIELD ROAD, SUITE 1400
 SCHAUMBURG, ILLINOIS 60173
 PHONE: (847) 619-5397 FAX: (847) 706-7415

LOCATION NUMBER: 455883

SITE NAME: WASHINGTON & JACKSON

**55 S MAIN ST.
 NAPERVILLE, IL 60540**



ALL ROOF WORK TO BE BY AND COORDINATED WITH LANDLORD'S ROOFER.

FIBER COORDINATION IS NOT COMPLETE (PENDING FIBER CONTACT). PRIOR TO CONSTRUCTION, CONTACT DESIGNER FOR UPDATE.

EXHIBIT B

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22" x 34" IS FULL SCALE.
 11" x 17" IS HALF SCALE.

CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS



REVISIONS

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	2/26/18	LS
2	UPDATE PER LATEST STRUCTURAL DESIGN	3/6/18	LS
3	FINAL PENDING FIBER	4/7/18	LS
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/13/18	ESH
5	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH

LOC. # 455833

WASHINGTON & JACKSON

55 S MAIN STREET
 NAPERVILLE, IL 60540

DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

S WEBSTER STREET
(66' WIDE (BITUMINOUS) PUBLIC)

MAIN STREET

EXISTING PROPERTY LINE

PROPOSED LESSEE ANTENNAS (3 SECTORS). REFER TO SHEET A-1.

PROPOSED LESSEE 10' X 15' STEEL EQUIPMENT PLATFORM WITH STEEL STAIRS AND 6' TALL SCREENING ALL AROUND. REFER TO SHEET A-2 FOR EQUIPMENT LAYOUT.

VAN BUREN AVENUE
(66' WIDE (BITUMINOUS) PUBLIC)

1 SITE PLAN
SCALE: 1/16" = 1'-0"

Williams & Works
engineers . planners . surveyors a tradition of service
616.224.1500 phone . 616.224.1501 facsimile
549 Ottawa Ave NW . Grand Rapids, MI 49503

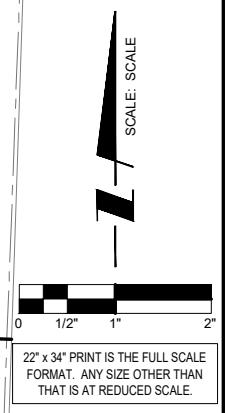
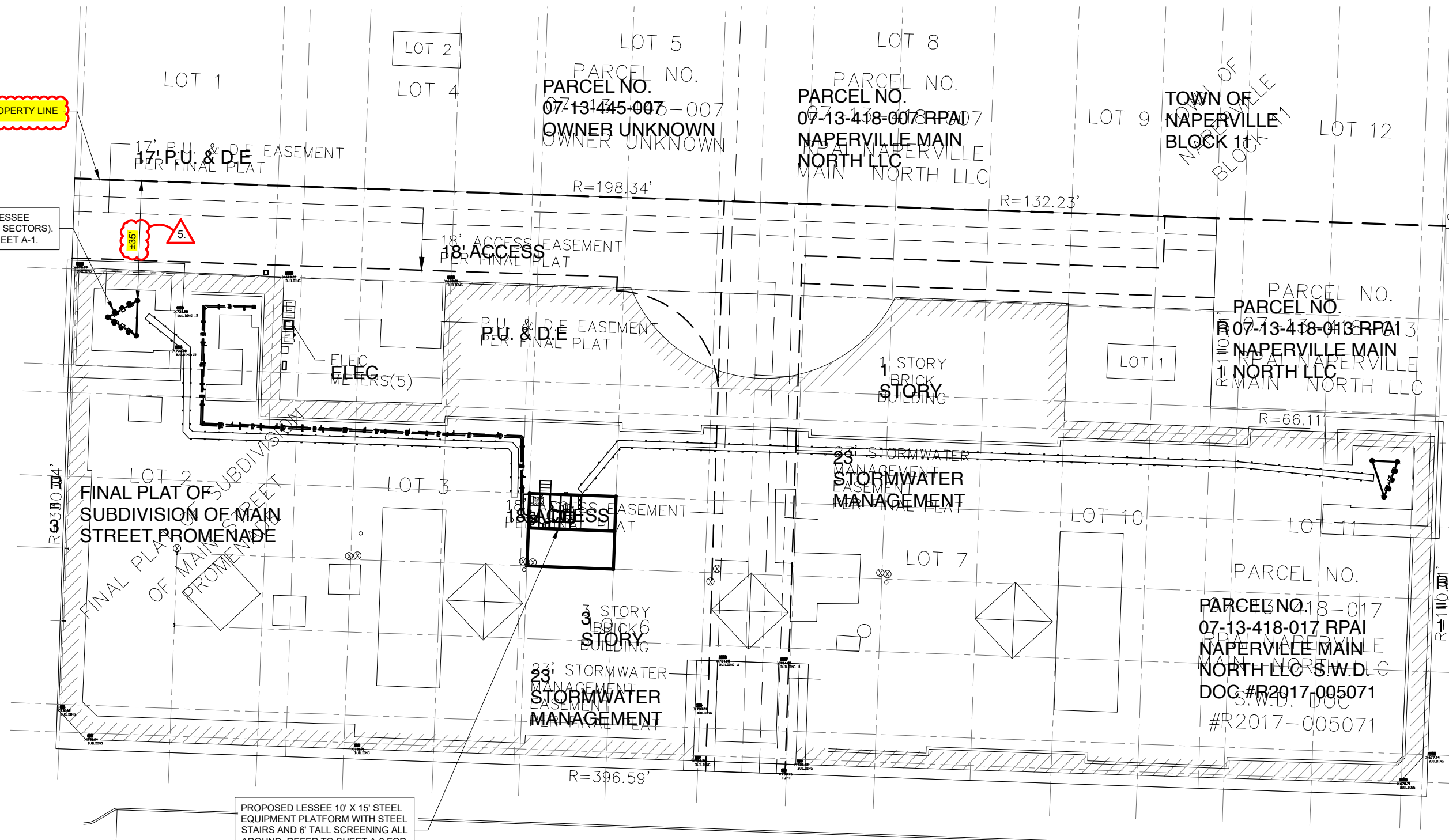
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CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT. CONTRACTOR SHALL PHOTOGRAPH AND VIDEOTAPE EXISTING PAVEMENT PRIOR TO CONSTRUCTION. ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPLACED TO EXISTING OR BETTER CONDITION AT NO ADDITIONAL COST.

THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL INVESTIGATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLANS AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING, AS REQUIRED ABOVE, OF SUCH DIFFERING SUBSURFACE CONDITIONS.

CONTRACTOR TO PROVIDE APPROXIMATE 50'x50' STAGING AREA AND TEMPORARY ROAD. CONTRACTOR SHALL COORDINATE WITH ANTENNA CONTRACTOR, A STAGING AREA AND TEMPORARY ROAD THAT IS ACCEPTABLE TO THE OWNER. STAGING AREA AND TEMPORARY ROAD SHALL BE RESTORED TO EXISTING CONDITIONS AS NECESSARY UPON COMPLETION OF THE PROJECT.

BEFORE AND DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL AS NECESSARY IN THE FORM OF SILT FENCES FOR THE SITE AND BALES AROUND ANY EXISTING MANHOLES, INLETS, OR CATCHBASINS SUSCEPTIBLE TO EROSION. EROSION CONTROL MEASURES SHALL BE PERIODICALLY INSPECTED TO ENSURE PROPER FUNCTION. EROSION CONTROL SHALL BE REMOVED UPON COMPLETION OF WORK.



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3	FINALS PENDING FIBER	4/1/18							
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/13/18							
5	UPDATED PER SITEMARKER AND LANDOWNER COMMENTS	8/21/18							
6	UPDATED PER CITY OF NAPERVILLE COMMENTS	10/02/18							

LOC. # 455833
WASHINGTON & JACKSON

55 S MAIN STREET
NAPERVILLE, IL 60540

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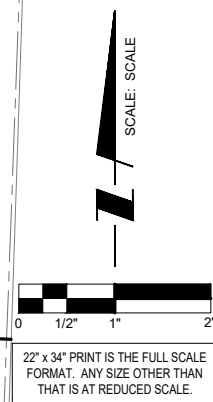
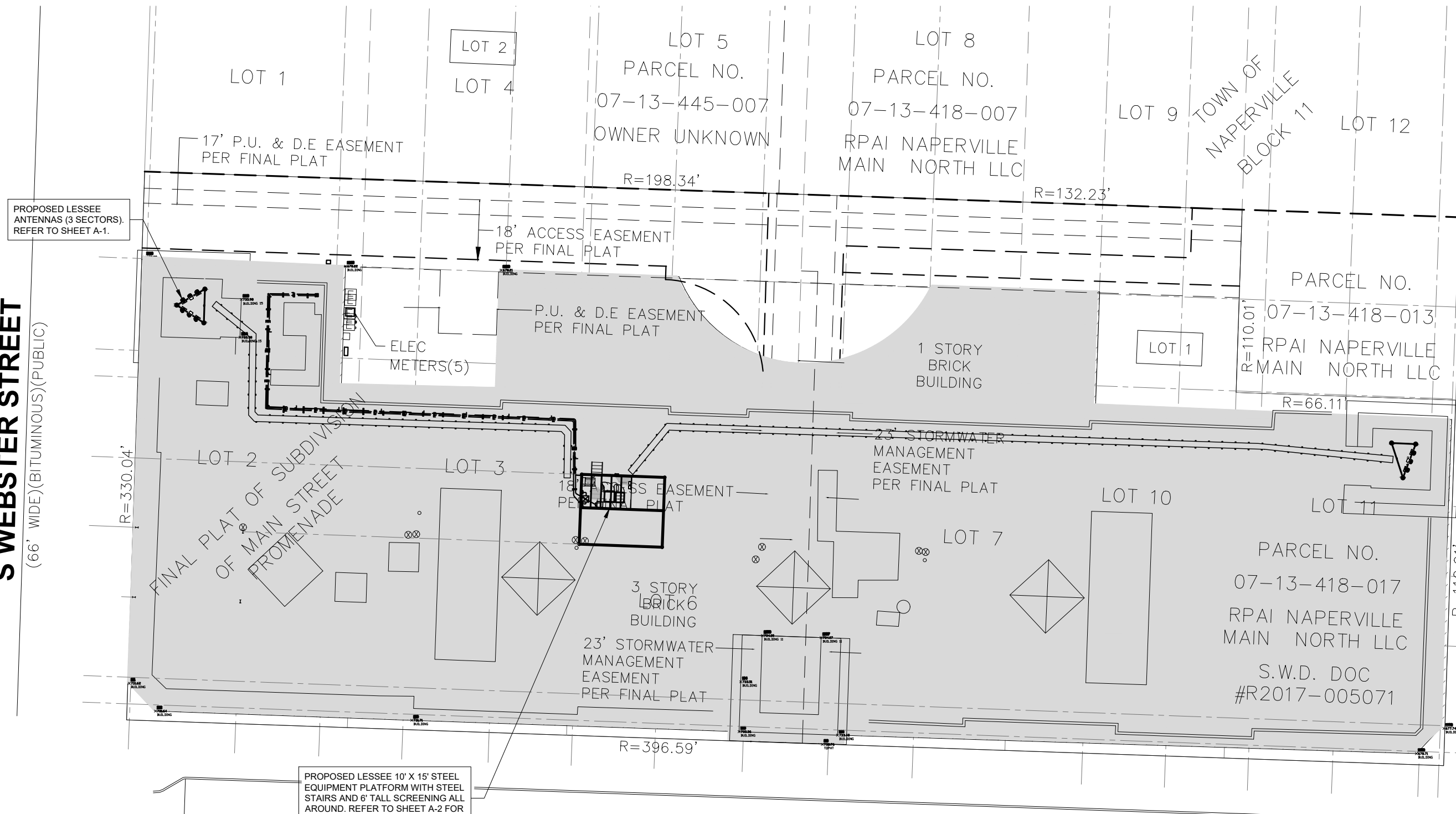
SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1

EXHIBIT B

S WEBSTER STREET
(66' WIDE)(BITUMINOUS)(PUBLIC)

MAIN STREET



PROPOSED LESSEE ANTENNAS (3 SECTORS). REFER TO SHEET A-1.

PROPOSED LESSEE 10' X 15' STEEL EQUIPMENT PLATFORM WITH STEEL STAIRS AND 6' TALL SCREENING ALL AROUND. REFER TO SHEET A-2 FOR EQUIPMENT LAYOUT.

1 SITE PLAN
SCALE: 1/16" = 1'-0"

VAN BUREN AVENUE
(66' WIDE)(BITUMINOUS)(PUBLIC)

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2	UPDATE PER LATEST STRUCTURAL DESIGN	3/6/18	LS
3	FINAL PENDING FIBER	4/7/18	LS
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/19/18	ESH
5	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH

LOC. # 455833
WASHINGTON & JACKSON

55 S MAIN STREET
NAPERVILLE, IL 60540

DRAWN BY: LS
CHECKED BY: TAZ
DATE: 8/18/17
PROJECT #: 33-2584

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-1

NOTE:
 VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION USING LANDLORD'S ROOFER.

NOTE:
 * CONTRACTOR TO X-RAY WALL, PRIOR TO PENETRATIONS. DO NOT CUT REINFORCEMENT.
 * FIRE STOP ALL PENETRATIONS.
 * CORE DRILL FLOOR, WALL & SEAL AFTER CONDUITS INSTALLATION.
 * INSTALL PULL/JUNCTION BOXES AS NECESSARY PER CODE.
 * CORE DRILLING TO BE FROM THE EXTERIOR TO INTERIOR TO PREVENT SPALLING.

- PROPOSED EQUIPMENT CABINETS :**
- ① COMMSCOPE RBA72-36 BATTERY CABINET (36"x39"x72") 2.500 LBS
 - ② COMMSCOPE RBA72-30 EQUIPMENT CABINET (30.3"x 43.4"x73.2") 565-670 LBS

PROPOSED ROOF PENETRATION FOR POWER, FIBER & GROUNDING CONDUITS ROUTED DOWN TO ELECTRICAL ROOM THROUGH EXISTING ELECTRIC CHASE BY LANDLORD'S ROOFER. REFER TO SHEET A-7, DET #5 AND SHEET E-1, E-2

EXISTING ELECTRIC MITER BANK WITH (2) OPEN METER SOCKETS.

PROPOSED LESSEE METER TO BE INSTALLED IN (125A, 480V) SPARE SOCKET IN EXISTING METER BANK. METER AND DISCONNECT TO BE PAINTED TO MATCH EXISTING WALL COLOR AND WEATHERPROOF VINYL ADDRESS LABEL TO BE ADDED.

PROPOSED TAP BOX MOUNTED ON EXTERIOR BUILDING WALL AT GRADE LEVEL. G.C. TO SEAL ALL PENETRATIONS.

ANTENNAS AND ANTENNA FRAMING TO BE PAINTED A NEUTRAL COLOR TO MATCH BUILDING.

PROPOSED LESSEE ANTENNAS (SECTOR ALPHA @ 115° AZIMUTH) MOUNTED TO NEW ANTENNA FRAME. SEE SHEETS S-4 AND S-5 FOR DETAILS.

ANTENNAS AND ANTENNA FRAMING TO BE PAINTED A NEUTRAL COLOR TO MATCH BUILDING.

PROPOSED LESSEE ANTENNAS (SECTOR GAMMA @ 320° AZIMUTH AND SECTOR BETA @ 240° AZIMUTH) MOUNTED TO NEW ANTENNA FRAME. SEE SHEETS S-4 AND S-5 FOR DETAILS.

PROPOSED NON-PENETRATING ROOFTOP CABLE TRAY. (TYP.) REFER TO SHEET A-5, DET. #2

PROPOSED POWER, FIBER & GROUNDING CONDUITS ROUTED ALONG ROOF ON PROPOSED SLEEPERS. REFER TO SHEET A-5, DET. #3

EXISTING ROOF DRAIN (TYP.)

EXISTING SKYLIGHT (TYP.)

EXISTING PARAPET WALL (TYP.)

EXISTING HVAC UNIT (TYP.)

PROPOSED LESSEE 10' X 15' STEEL EQUIPMENT PLATFORM WITH STEEL STAIRS AND 6' TALL SCREENING ALL AROUND. REFER TO SHEET A-2 FOR EQUIPMENT LAYOUT

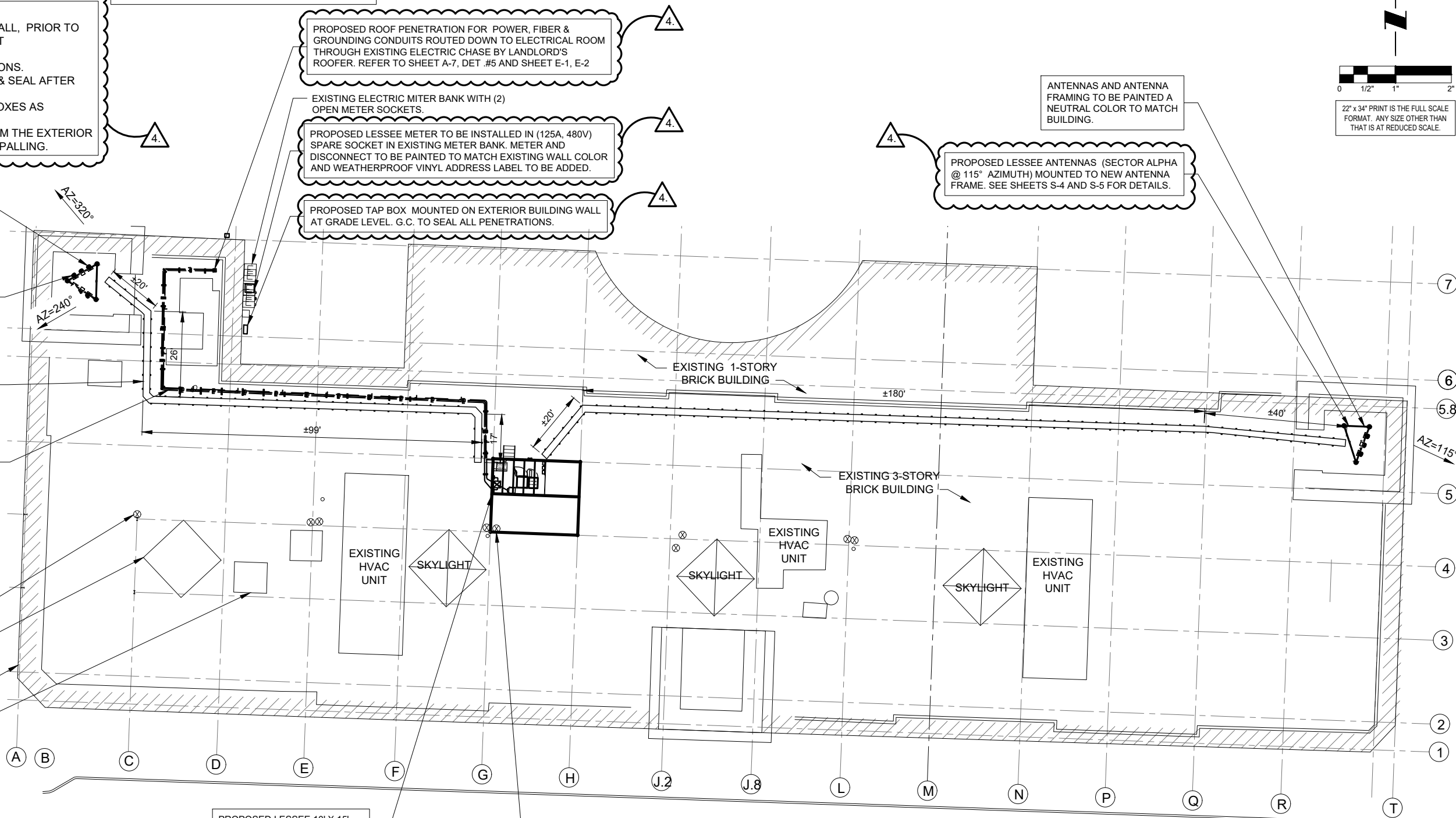
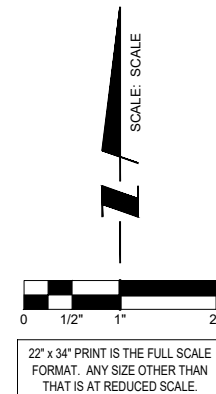
EXISTING ROOF DRAIN AND ROOF VENT

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1 ROOF PLAN
 SCALE: 1/8" = 1'-0"

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1	ISSUED FOR REVIEW	2/26/18	LS					
2	UPDATE PER LATEST STRUCTURAL DESIGN	3/6/18	LS					
3	FINALS PENDING FIBER	4/7/18	LS					
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/19/18	ESH					
	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH					

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 WASHINGTON & JACKSON
 55 S MAIN STREET
 NAPERVILLE, IL 60540

DRAWN BY: LS
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SHEET TITLE
ROOF PLAN
 SHEET NUMBER
A-1

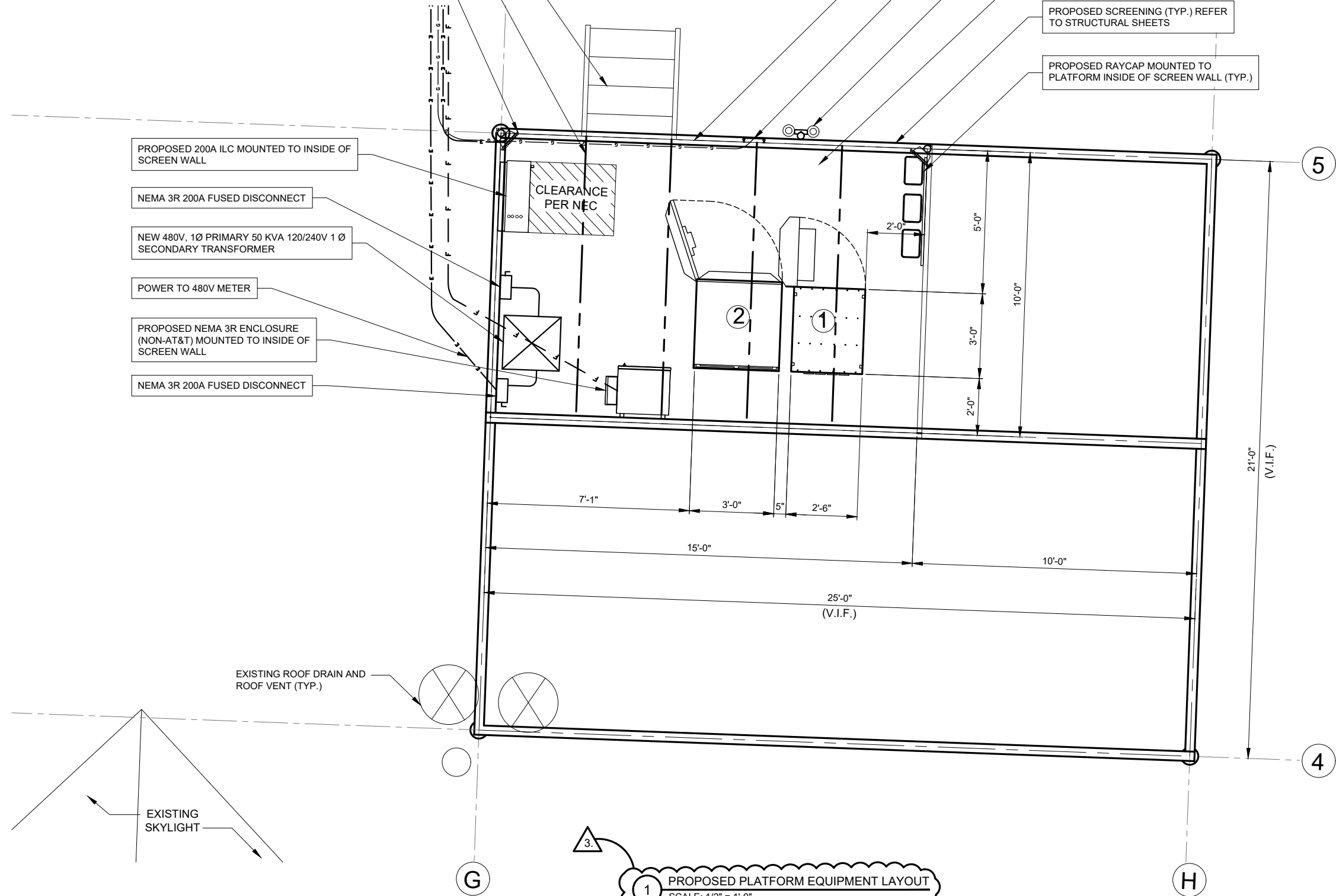
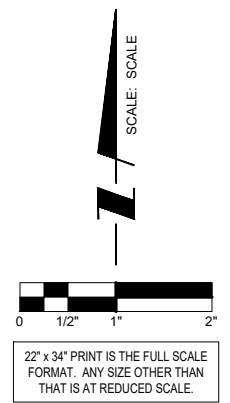
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- PROPOSED EQUIPMENT CABINETS :**
- ① COMMSCOPE RBA72-36 BATTERY CABINET (36"x39"x72") 2,500 LBS
 - ② COMMSCOPE RBA72-30 EQUIPMENT CABINET (30.3"x 43.4"x73.2") 565-670 LBS

- PROPOSED STEEL STAIRS WITH HANDRAIL. REFER TO STRUCTURAL SHEETS
- PROPOSED PLATFORM STEEL SUPPORT (TYP.) REFER TO STRUCTURAL SHEETS
- ADJUSTABLE FLOODLIGHT NEMALUX MR3/5 OR APPROVED EQUAL. MOUNT TO INSIDE OF SCREEN WALL AND AIM TOWARDS EQUIPMENT. (TYP.)

- PROPOSED LESSEE 10' X 15' STEEL EQUIPMENT PLATFORM WITH 6' TALL SCREEN WALL. REFER TO SHEETS S-2 AND S-3 FOR DETAILS.
- PROPOSED MASTER GROUND BAR ATTACHED THE PLATFORM
- PROPOSED (2) GPS ANTENNA MOUNTED ON PIPE TO INSIDE OF SCREEN WALL. REFER TO SHEET A-6, DET. #1
- PROPOSED GALV METAL GRATING. REFER TO STRUCTURAL SHEETS
- PROPOSED SCREENING (TYP.) REFER TO STRUCTURAL SHEETS
- PROPOSED RAYCAP MOUNTED TO PLATFORM INSIDE OF SCREEN WALL (TYP.)

- PROPOSED 200A ILC MOUNTED TO INSIDE OF SCREEN WALL
- NEMA 3R 200A FUSED DISCONNECT
- NEW 480V, 1Ø PRIMARY 50 KVA 120/240V 1 Ø SECONDARY TRANSFORMER
- POWER TO 480V METER
- PROPOSED NEMA 3R ENCLOSURE (NON-AT&T) MOUNTED TO INSIDE OF SCREEN WALL
- NEMA 3R 200A FUSED DISCONNECT



1 PROPOSED PLATFORM EQUIPMENT LAYOUT
 SCALE: 1/2" = 1'-0"
 EXHIBIT B

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	FINAL'S PENDING FIBER	3	4/11/18	LS	
	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	4	7/13/18	ESH	
	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS		8/02/18	ESH	

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SHEET TITLE
PROPOSED PLATFORM EQUIPMENT LAYOUT

SHEET NUMBER
A-2

PROPOSED LESSEE ANTENNAS (SECTOR BETA @ 240° AZIMUTH) ON PROPOSED STEEL SUPPORT FRAME. REFER TO SHEET S-5, DET. M

ANTENNAS AND ANTENNA FRAMING TO BE PAINTED A NEUTRAL COLOR TO MATCH BUILDING.

PROPOSED LESSEE ANTENNAS (SECTOR GAMMA @ 320° AZIMUTH) ON PIPE ATTACHED TO PROPOSED STEEL SUPPORT FRAME. REFER TO SHEET S-5, DET. M

PROPOSED LESSEE 10' X 15' STEEL EQUIPMENT PLATFORM WITH STEEL STAIRS AND 6' TALL SCREEN WALL AROUND. DESIGN AND PAINT TO MATCH EXISTING BUILDING. REFER TO SHEET A-2 FOR EQUIPMENT LAYOUT.

NOTE:
VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION

- T/ PROPOSED ANTENNAS
ELEV: ±67' A.G.L.
- CENTER OF PROPOSED LESSEE ANTENNAS
ELEV: ±64' A.G.L.
- UPPER ROOF PARAPET
ELEV: ±60' A.G.L.
- UPPER ROOF LOWER PARAPET
ELEV: ±55' A.G.L.
- T/ EXISTING BUILDING ROOF
ELEV: ±47' A.G.L.
- EXISTING BUILDING
- EXISTING GRADE
ELEV: ±0'-0" A.G.L.



1 SOUTH ELEVATION
SCALE: 3/32" = 1'-0"

- T/ PROPOSED ANTENNAS
ELEV: ±67' A.G.L.
- CENTER OF PROPOSED LESSEE ANTENNAS
ELEV: ±64' A.G.L.
- T/ PARAPET WALL
ELEV: ±60' A.G.L.
- T/ EXISTING BUILDING ROOF
ELEV: ±47' A.G.L.

PROPOSED LESSEE ANTENNAS (SECTORS GAMMA @ 320° AZIMUTH AND BETA @ 220°) ON PIPE ATTACHED STEEL SUPPORT FRAME

ANTENNAS AND ANTENNA FRAMING TO BE PAINTED A NEUTRAL COLOR TO MATCH BUILDING.



2 NORTH ELEVATION
SCALE: 3/32" = 1'-0"

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PH: 847-698-6400
FAX: 847-698-6401

REVISIONS		NO.	DESCRIPTION	DATE	BY
			ISSUED FOR REVIEW	2/26/18	LS
		1	UPDATE PER LATEST STRUCTURAL DESIGN	3/6/18	LS
		2	FINALS PENDING FIBER	4/7/18	LS
		3	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/18/18	ESH
		4	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH

LOC. # 455833
WASHINGTON & JACKSON
55 S MAIN STREET
NAPERVILLE, IL 60540

DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
SITE ELEVATIONS

SHEET NUMBER
A-3

NOTE:
 VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION USING LANDLORD'S ROOFER.

4.



3.

1 SOUTH ELEVATION
 SCALE: 3/32" = 1'-0"
 EXHIBIT B

CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS



NO.	DESCRIPTION	DATE	BY			
			LS	LS	LS	ESH
1	ISSUED FOR REVIEW	2/26/18				
2	UPDATE PER LATEST STRUCTURAL DESIGN	3/6/18				
3	FINAL PENDING FIBER	4/7/18				
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/19/18				
	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18				

LOC. # 455833

WASHINGTON & JACKSON

55 S MAIN STREET
 NAPERVILLE, IL 60540

DRAWN BY: LS
 CHECKED BY: TAZ
 DATE: 8/18/17
 PROJECT #: 33-2584

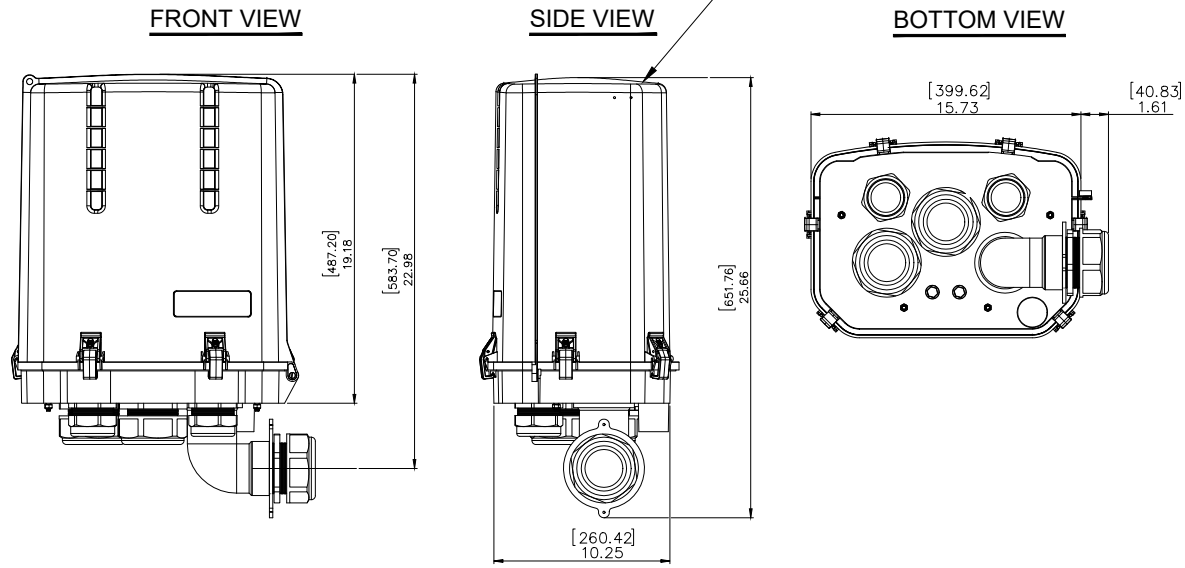
SHEET TITLE
 SITE ELEVATION

SHEET NUMBER
A-4

SPECIFICATIONS DC SURGE PROTECTION FOR RRU/INTEGRATED ANTENNA RADIO HEAD
 APPLICATION: TOWER / BASE / ROOFTOP / ROOFTOP DISTRIBUTION MODELS
 WEIGHT: 32LBS (14.51 KG)

[mm]
 INCHES

PROPOSED RAYCAP JUNCTION BOX
 MODEL# RCMD-3315-PF-48

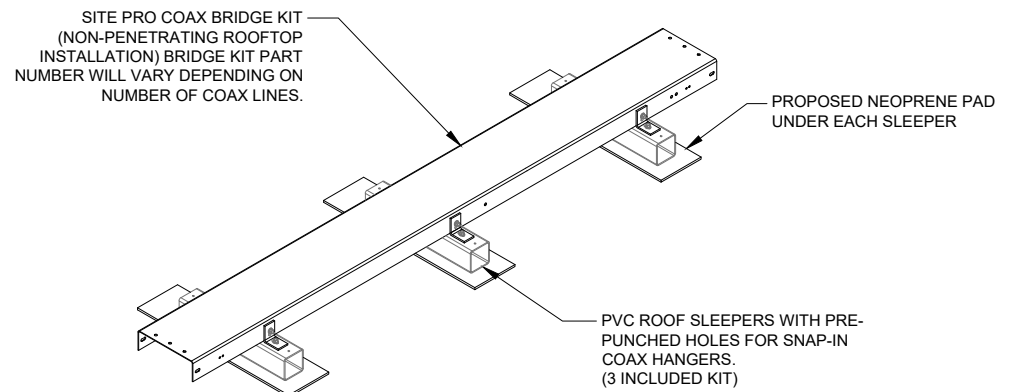


1 RAYCAP JUNCTION BOX DETAIL
 SCALE: N.T.S.

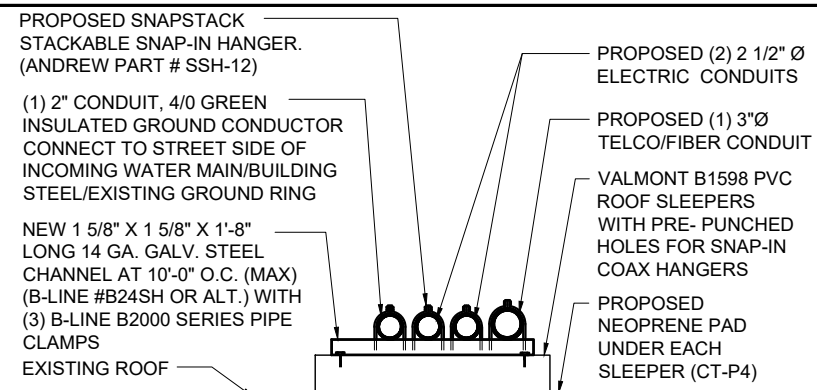
BRIDGE KIT SITEPRO 1 P/N		# OF RUNS	COVER SIZE
SP1542	SP1542D (STACKABLE)	4	11-1/2" x 8'-0"
S1543	SP1542D (STACKABLE)	8	21 1/2" x 8'-0"
SP1595	SP1542D (STACKABLE)	12	33" x 8'-0"

NOTE:

- AT TURNS USE SITE PRO ADJUSTABLE SPLICES FOR 0° TO 45° BENDS AND 45° TO 90° BENDS
- CONTRACTOR TO SUPPLY SUFFICIENT SLACK AT BOTH ENDS OF CABLE TRAY. CABLE TRAY SHOULD BE ABLE TO BE TEMPORARILY SHIFTED FOR ROOF MAINTENANCE.
- IF CABLE BRIDGE REQUIRES TEMPORARY RELOCATION (DUE TO ROOF MAINTENANCE) REMOVE THE BRIDGE COVER TO EASE THE MOVEMENT OF THE NON-PENETRATING SLEEPERS.



2 ROOF MOUNTED COAX SUPPORT
 SCALE: N.T.S.

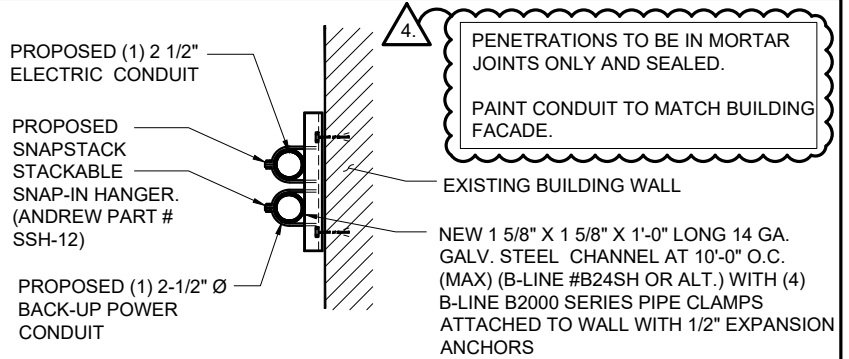


3 ROOF MOUNTED CONDUIT SUPPORT
 SCALE: N.T.S.

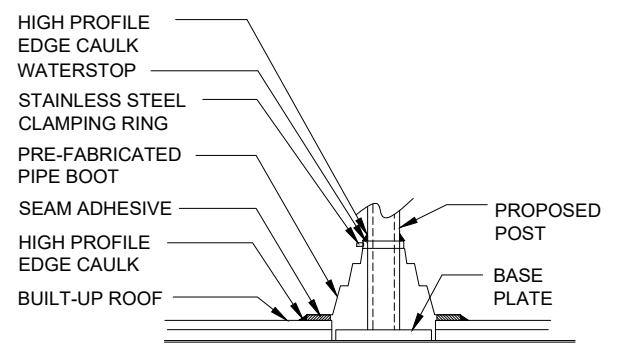
NOTE:
 G.C. TO CONTRACT WITH BUILDING APPROVED ROOFING CONTRACTOR FOR ALL ROOF REPAIRS.

FLASHING SHOWN HERE AS GUIDE. ROOFING CONTRACTOR TO UTILIZE BEST METHODS FOR REPAIRS.

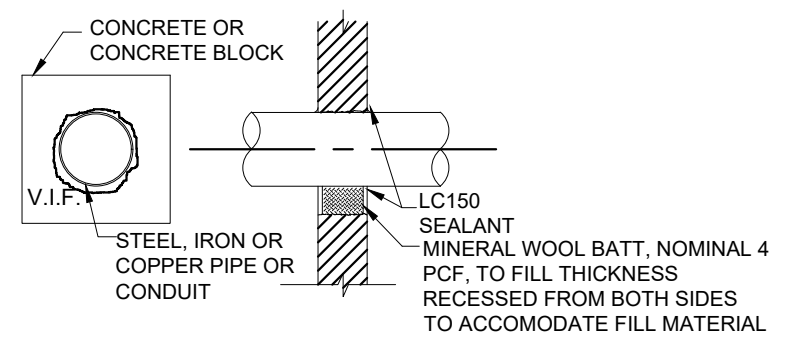
4. PAINT AND SEALANT TO MATCH BUILDING FACADE.



4 WALL MOUNTED CONDUIT SUPPORT
 SCALE: N.T.S.



5 TYPICAL PIPE COLUMN FLASHING DETAIL
 SCALE: N.T.S.



PENETRANT	MAXIMUM TRADE SIZE (IN.)	SEALANT DEPTH (IN.)	MINERAL WOOL (IN.)	ANNULUS (IN.)	
				MINIMUM	MAXIMUM
STEEL OR IRON	24	1/2	3	POINT CONTACT	2
STEEL OR IRON	4	1	NONE REQ'D.	POINT CONTACT	1-1/2
COPPER	4	1/2	3	POINT CONTACT	2

6 UL C-AJ-1213 FIRE STOP DETAIL (FOR ALL PENETRATIONS)
 SCALE: N.T.S.

CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS

TERRA
 CONSULTING GROUP, LTD.
 600 BUSSE HIGHWAY
 PARK RIDGE, IL 60068
 PH: 847-698-6400
 FAX: 847-698-6401

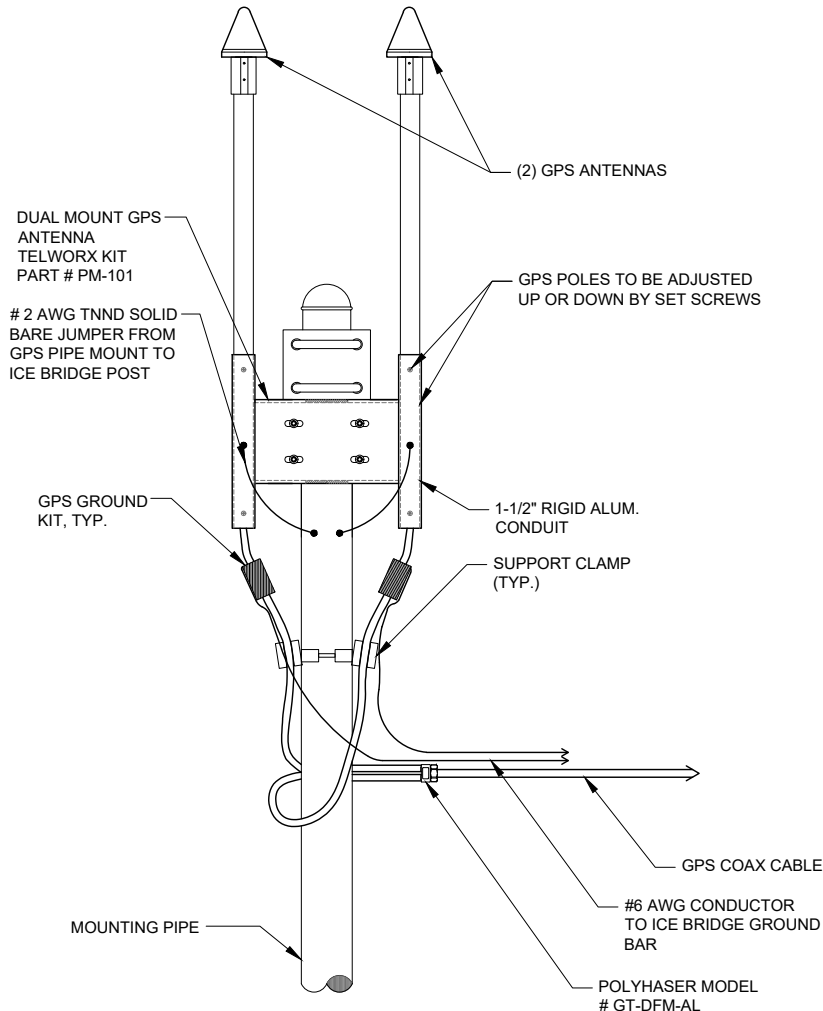
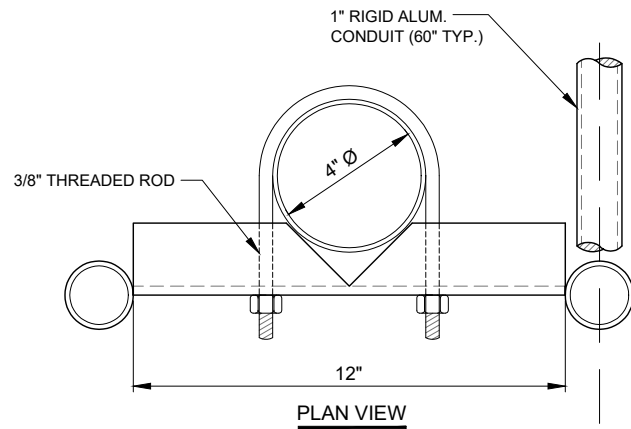
NO.	DESCRIPTION	DATE	BY
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LOC. # 455833
 WASHINGTON & JACKSON
 55 S MAIN STREET
 NAPERVILLE, IL 60540

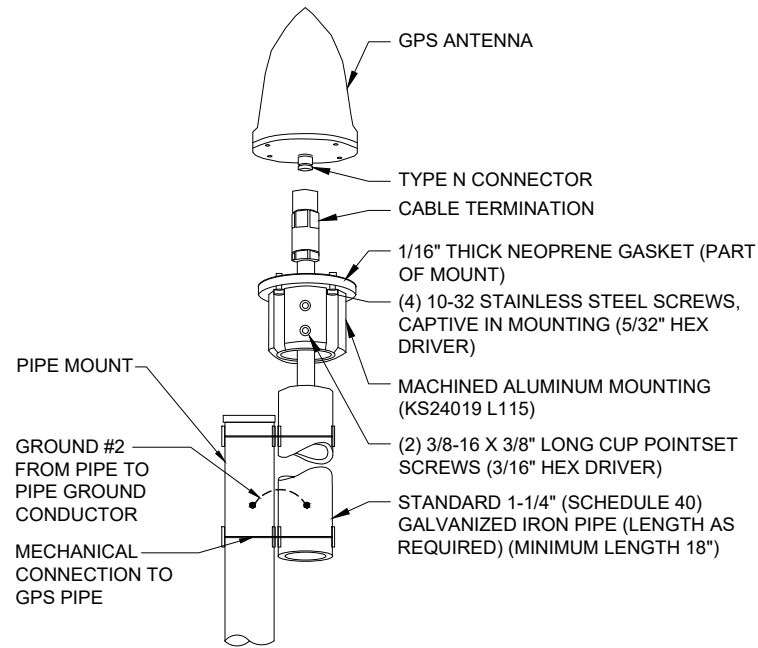
DRAWN BY: LS
 CHECKED BY: TAZ
 DATE: 8/18/17
 PROJECT #: 33-2584

SHEET TITLE
 SITE DETAILS

SHEET NUMBER
A-5

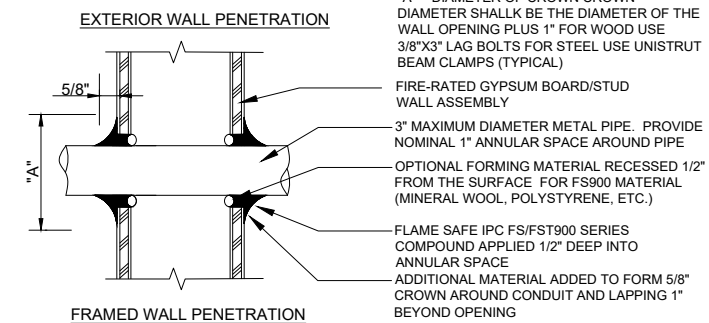
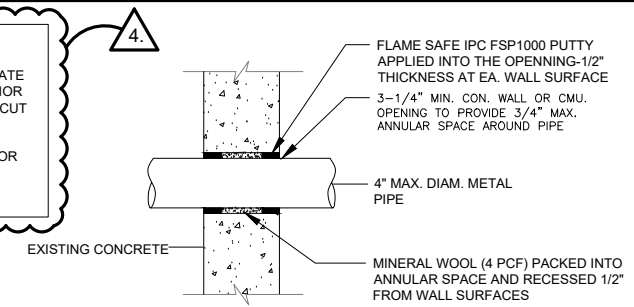


1 GPS MOUNTING DETAIL
N.T.S.



2 TYPICAL GPS DETAIL

NOTE:
1. CONTRACTOR SHALL EXAMINE (ULTRASOUND OR EQUAL) TO LOCATE EXISTING REBAR OR CONDUITS PRIOR TO DRILLING OR CORING. DO NOT CUT REBAR.
2. CONTRACTOR SHALL ENSURE WATER-TIGHTNESS AT ALL EXTERIOR WALL AND FLOOR PENETRATIONS.
3. PAINT AND SEALANT TO MATCH BUILDING FACADE.



3 CONDUIT WALL PENETRATION
SCALE: N.T.S.

FIRESTOPPING SPECIFICATIONS

1.1 DESCRIPTION

- A. CLOSURES OF OPENINGS IN WALLS, FLOORS, AND ROOF DECKS AGAINST PENETRATION OF FLAME, HEAT, AND SMOKE OR GASES IN FIRE RESISTANT RATED CONSTRUCTION.
B. CLOSURE OF OPENINGS IN WALLS AGAINST PENETRATION OF GASES OR SMOKE IN SMOKE PARTITIONS.

1.2 GUARANTEE

FIRESTOPPING WORK SUBJECT TO THE TERMS OF THE ARTICLE GUARANTY OF SECTION GENERAL CONDITIONS, EXCEPT EXTEND THE GUARANTY PERIOD TO FIVE YEARS.

1.3 QUALITY ASSURANCE FM, UL, OR WH OR OTHER APPROVED LABORATORY TESTED PRODUCTS WILL BE ACCEPTABLE.

1.4 APPLICABLE PUBLICATIONS

PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED. PUBLICATIONS ARE REFERENCED IN THE TEXT BY THE BASIC DESIGNATION ONLY.

A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM): E84-99 SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS E814-97 FIRE TESTS OF THROUGH-PENETRATION FIRE STOPS.

B. FACTORY MUTUAL ENGINEERING AND RESEARCH CORPORATION (FM): ANNUAL ISSUE APPROVAL GUIDE BUILDING MATERIALS.

C. UNDERWRITERS LABORATORIES, INC. (UL): ANNUAL ISSUE BUILDING MATERIALS DIRECTORY ANNUAL ISSUE FIRE RESISTANCE DIRECTORY 1479-98 FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.

D. WARNOCK HERSEY (WH): ANNUAL ISSUE CERTIFICATION LISTINGS.

PART 2 - PRODUCTS

2.1 FIRESTOP SYSTEMS

- A. USE EITHER FACTORY BUILT (FIRESTOP DEVICES) OR FIELD ERECTED (THROUGH-PENETRATION FIRESTOP SYSTEMS) TO FORM A SPECIFIC BUILDING SYSTEM MAINTAINING REQUIRED INTEGRITY OF THE FIRE BARRIER AND STOP THE PASSAGE OF GASES OR SMOKE.
B. THROUGH-PENETRATION FIRESTOP SYSTEMS AND FIRESTOP DEVICES TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479 USING THE "F" OR "T" RATING TO MAINTAIN THE SAME RATING AND INTEGRITY AS THE FIRE BARRIER BEING SEALED. "T" RATINGS ARE NOT REQUIRED FOR PENETRATIONS SMALLER THAN OR EQUAL TO 100 MM (4 IN) NOMINAL PIPE OR 0.01 M² (16 SQ. IN.) IN OVERALL CROSS SECTIONAL AREA.

- C. PRODUCTS REQUIRING HEAT ACTIVATION TO SEAL AN OPENING BY ITS INTUMESCENCE SHALL EXHIBIT A DEMONSTRATED ABILITY TO FUNCTION AS DESIGNED TO MAINTAIN THE FIRE BARRIER.
D. FIRESTOP SEALANTS USED FOR FIRESTOPPING OR SMOKE SEALING SHALL HAVE FOLLOWING PROPERTIES:

1. CONTAIN NO FLAMMABLE OR TOXIC SOLVENTS.
 2. HAVE NO DANGEROUS OR FLAMMABLE OUTGASSING DURING THE DRYING OR CURING OF PRODUCTS.
 3. WATER-RESISTANT AFTER DRYING OR CURING AND UNAFFECTED BY HIGH HUMIDITY, CONDENSATION OR TRANSIENT WATER EXPOSURE.
 4. WHEN USED IN EXPOSED AREAS, SHALL BE CAPABLE OF BEING SANDED AND FINISHED WITH SIMILAR SURFACE TREATMENTS AS USED ON THE SURROUNDING WALL OR FLOOR SURFACE.
- E. FIRESTOPPING SYSTEM OR DEVICES USED FOR PENETRATIONS BY GLASS PIPE, PLASTIC PIPE OR CONDUITS, UNENCLOSED CABLES, OR OTHER NON-METALLIC MATERIALS SHALL HAVE FOLLOWING PROPERTIES:
1. CLASSIFIED FOR USE WITH THE PARTICULAR TYPE OF PENETRATING MATERIAL USED.
 2. PENETRATIONS CONTAINING LOOSE ELECTRICAL CABLES, COMPUTER DATA CABLES, AND COMMUNICATIONS CABLES PROTECTED USING FIRESTOPPING SYSTEMS THAT ALLOW UNRESTRICTED CABLE CHANGES WITHOUT DAMAGE TO THE SEAL.
 3. INTUMESCENT PRODUCTS WHICH WOULD EXPAND TO SEAL THE OPENING AND ACT AS FIRE, SMOKE, TOXIC FUMES, AND, WATER SEALANT.
- F. MAXIMUM FLAME SPREAD OF 25 AND SMOKE DEVELOPMENT OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
G. FM, UL, OR WH RATED OR TESTED BY AN APPROVED LABORATORY IN ACCORDANCE WITH ASTM E814.
H. MATERIALS TO BE ASBESTOS FREE.

PART 3 - EXECUTION

3.1 PREPARATION

- A. REMOVE DIRT, GREASE, OIL, LOOSE MATERIALS, OR OTHER SUBSTANCES THAT PREVENT ADHERENCE AND BONDING OR APPLICATION OF THE FIRESTOPPING OR SMOKE STOPPING MATERIALS.
B. REMOVE INSULATION ON INSULATED PIPE FOR A DISTANCE OF 150 MM (SIX INCHES) ON EITHER SIDE OF THE FIRE RATED ASSEMBLY PRIOR TO APPLYING THE FIRESTOPPING MATERIALS UNLESS THE FIRESTOPPING MATERIALS ARE TESTED AND APPROVED FOR USE ON INSULATED PIPES.

3.2 INSTALLATION

- A. DO NOT BEGIN WORK UNTIL THE SPECIFIED MATERIAL DATA AND INSTALLATION INSTRUCTIONS OF THE PROPOSED FIRESTOPPING SYSTEMS HAVE BEEN SUBMITTED AND APPROVED.
B. INSTALL FIRESTOPPING SYSTEMS WITH SMOKE STOPPING IN ACCORDANCE WITH FM, UL, WH, OR OTHER APPROVED SYSTEM DETAILS AND INSTALLATION INSTRUCTIONS.
C. INSTALL SMOKE STOPPING SEALS IN SMOKE PARTITIONS.

4 FIRE STOP NOTES
N.T.S.

EXHIBIT B

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS

TERRA
CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

NO.	DESCRIPTION	BY	DATE
1	ISSUED FOR REVIEW	LS	2/26/16
2	UPDATE PER LATEST STRUCTURAL DESIGN	LS	3/6/18
3	FINAL PENDING FIBER	LS	4/7/18
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	ESH	7/19/18
	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	ESH	7/30/18

LOC. # 455833

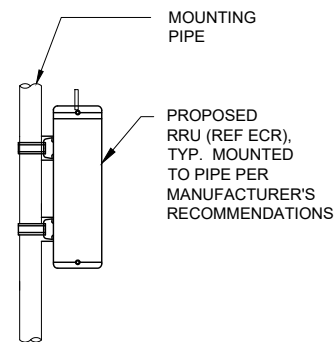
WASHINGTON & JACKSON

55 S MAIN STREET
NAPERVILLE, IL 60540

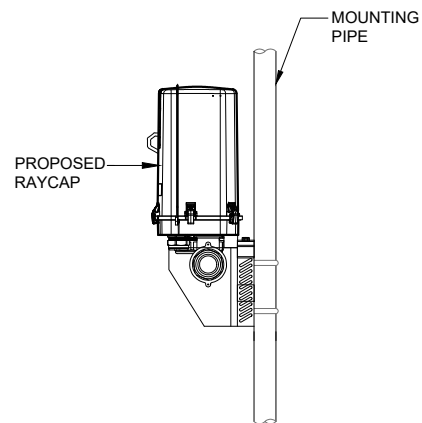
DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
SITE DETAILS

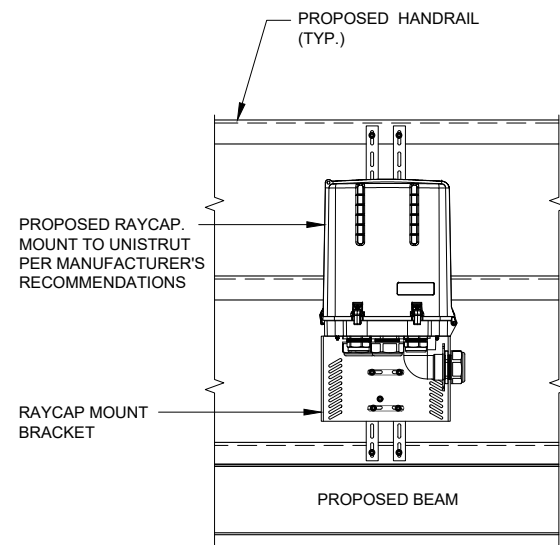
SHEET NUMBER
A-6



1 RRU MOUNT DETAIL AT SECTOR
SCALE: N.T.S.



2 RAYCAP MOUNT DETAIL AT SECTOR
SCALE: N.T.S.



3 RAYCAP MOUNT DETAIL AT PLATFORM
SCALE: N.T.S.

Square D IPaCS has also developed the SPQ lug-lug (SPQTB) tap box that provides the capabilities to connect to a portable generator. This solution incorporates power distribution blocks for the generator breaker cable connections using mechanical lugs in lieu of cam-lock connectors for the generator cable connections.

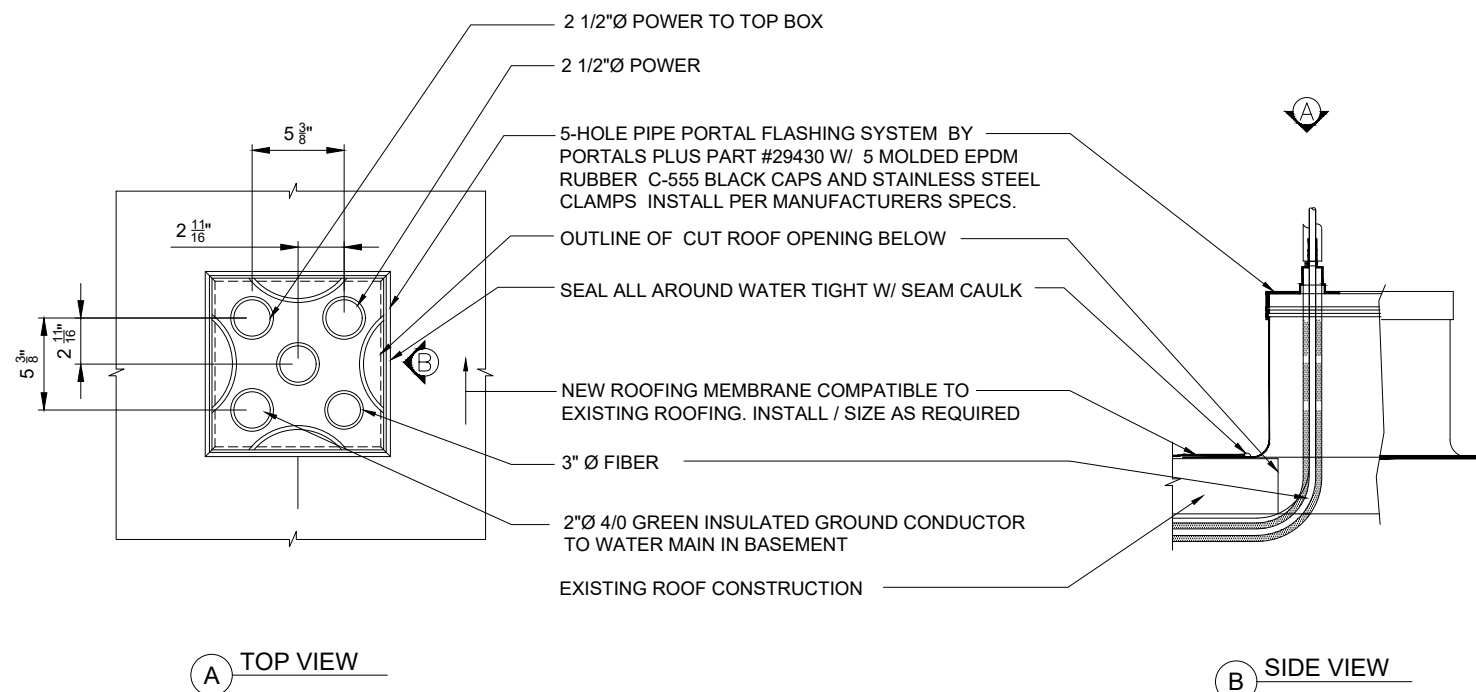
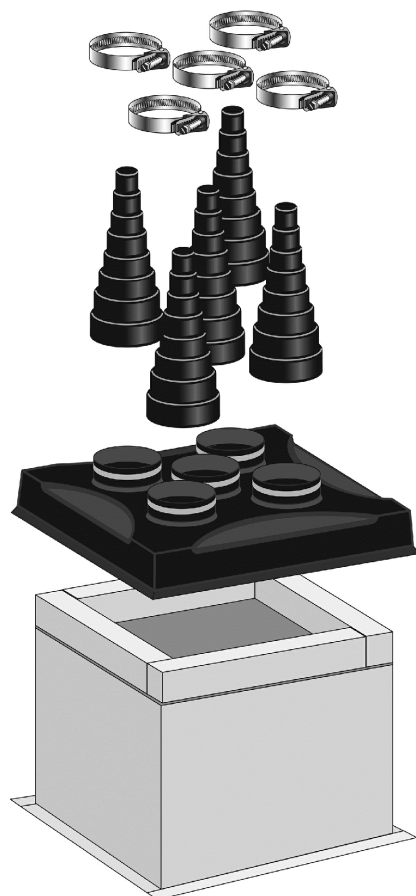
This version of the SPQ tap box is designed, manufactured and tested under the UL 1773 Standard for Termination Boxes. The SPQTB tap box comes with labeled lugs marked for safe connection sequence.

Design Features

- > UL listed – UL 1773
- > cUL listed
- > NEMA Type 3R Enclosure (can be used for NEMA Type 1 installations)
 - 30 in. wide X 36 in. tall X 13 in. deep
 - Lockable door for safety and controlled access
- > Mechanical lugs to standby power disconnect
- > Generator connection lugs rated for Type W cable
- > Lugs are labeled for connection sequence
- > Application
 - 400 A and 800 A available
 - 600 V maximum
 - Three-phase + neutral + ground



4 SQUARE D TAP BOX DETAILS
SCALE: N.T.S.



INSTALLATION INSTRUCTIONS IS PROVIDED BY
ROOF PRODUCTS & SYSTEMS,
815 KIMBERLY DRIVE, CAROL STREAM, IL 60188
PHONE: (800) 624-8642) (OR EQUAL FOR
MANUFACTURER INSTALLATION SPECIFICATIONS
AND REQUIREMENTS

5 CONDUIT FLASHING DETAIL
N.T.S.

EXHIBIT B

CHICAGO SMSA
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d/b/a VERIZON WIRELESS

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CONSULTING CORPORATION, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
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LOC. # 455833
WASHINGTON & JACKSON
55 S MAIN STREET
NAPERVILLE, IL 60540

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SHEET TITLE
SITE DETAILS

SHEET NUMBER
A-7

RF EMISSIONS REPORT REQUIRED

YES NO

DATE OF REPORT: 3/14/18

EQUIPMENT CHANGE REQUEST FORM- ECR

Cell Name	WASHINGTON AND JACKSON	RF Engineer	Jeremy Litz	Cell ID	TBD
Location Number	455833	Market	HH	Address	55 S. Main Street
Date of Request	6/27/2018			City/State/Zip	Naperville, IL, 60540

		PROPOSED CONFIGURATION			Configuration			Option-A2				
Sector	Pos	Port	RF Path	Antenna Manufacturer	Antenna Model	Antenna Serial Number	Centerline	Azimuth	Variable Tilt	Mechanical Tilt	Action	
Alpha	A1	L1 (-45)	700/850 - RxTx0	COMMSCOPE	NHH-65B-R2B		55	130	4	0	Add-Install	
		L2 (+45)	700/850 - RxTx1						1			
		H1 (-45)	PCS - RxTx0						1			
		H2 (+45)	PCS - RxTx1						1			
	A2	L1 (-45)	Unused at this time									Unchanged
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	A3	L1 (-45)	700/850 - RxTx2	COMMSCOPE	NHH-65B-R2B		55	130	4	0	Add-Install	
		L2 (+45)	700/850 - RxTx3						1			
		H1 (-45)	Unused at this time						1			
		H2 (+45)	Unused at this time						1			
	A4	L1 (-45)	Unused at this time	COMMSCOPE	NHH-65B-R2B		55	130	4	0	Add-Install	
		L2 (+45)	Unused at this time						1			
		H1 (-45)	AWS - RxTx0						1			
		H2 (+45)	AWS - RxTx1						1			
Beta	B1	L1 (-45)	700/850 - RxTx0	COMMSCOPE	NHH-65B-R2B		60	240	4	0	Add-Install	
		L2 (+45)	700/850 - RxTx1						1			
		H1 (-45)	PCS - RxTx0						1			
		H2 (+45)	PCS - RxTx1						1			
	B2	L1 (-45)	Unused at this time									Unchanged
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	B3	L1 (-45)	700/850 - RxTx2	COMMSCOPE	NHH-65B-R2B		60	240	4	0	Add-Install	
		L2 (+45)	700/850 - RxTx3						1			
		H1 (-45)	Unused at this time						1			
		H2 (+45)	Unused at this time						1			
	B4	L1 (-45)	Unused at this time	COMMSCOPE	NHH-65B-R2B		60	240	4	0	Add-Install	
		L2 (+45)	Unused at this time						1			
		H1 (-45)	AWS - RxTx0						1			
		H2 (+45)	AWS - RxTx1						1			
GAMMA	G1	L1 (-45)	700/850 - RxTx0	COMMSCOPE	NHH-65B-R2B		64	320	4	0	Add-Install	
		L2 (+45)	700/850 - RxTx1						1			
		H1 (-45)	PCS - RxTx0						1			
		H2 (+45)	PCS - RxTx1						1			
	G2	L1 (-45)	Unused at this time									Unchanged
		L2 (+45)	Unused at this time									
		H1 (-45)	Unused at this time									
		H2 (+45)	Unused at this time									
	G3	L1 (-45)	700/850 - RxTx2	COMMSCOPE	NHH-65B-R2B		64	320	4	0	Add-Install	
		L2 (+45)	700/850 - RxTx3						1			
		H1 (-45)	Unused at this time						1			
		H2 (+45)	Unused at this time						1			
	G4	L1 (-45)	Unused at this time	COMMSCOPE	NHH-65B-R2B		64	320	4	0	Add-Install	
		L2 (+45)	Unused at this time						1			
		H1 (-45)	AWS - RxTx0						1			
		H2 (+45)	AWS - RxTx1						1			

Comments

3. 1 PROPOSED ANTENNA CONFIGURATION
N.T.S.

EXHIBIT B

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS



NO.	DESCRIPTION	DATE		BY	
		DATE	DESCRIPTION	DATE	DESCRIPTION
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WASHINGTON & JACKSON

55 S MAIN STREET
NAPERVILLE, IL 60540

DRAWN BY: LS
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PROJECT #: 33-2584

SHEET TITLE
ANTENNA INFORMATION

SHEET NUMBER
ANT-1

ESTIMATED MAIN LINE HYBRID LENGTH			
SECTOR	HORIZONTAL (±)	VERTICAL (±)	TOTAL (±)
ALPHA AZ=115°	250'	10'	260'
BETA AZ=240°	165'	10'	175'
GAMMA AZ=320°	165'	10'	175'

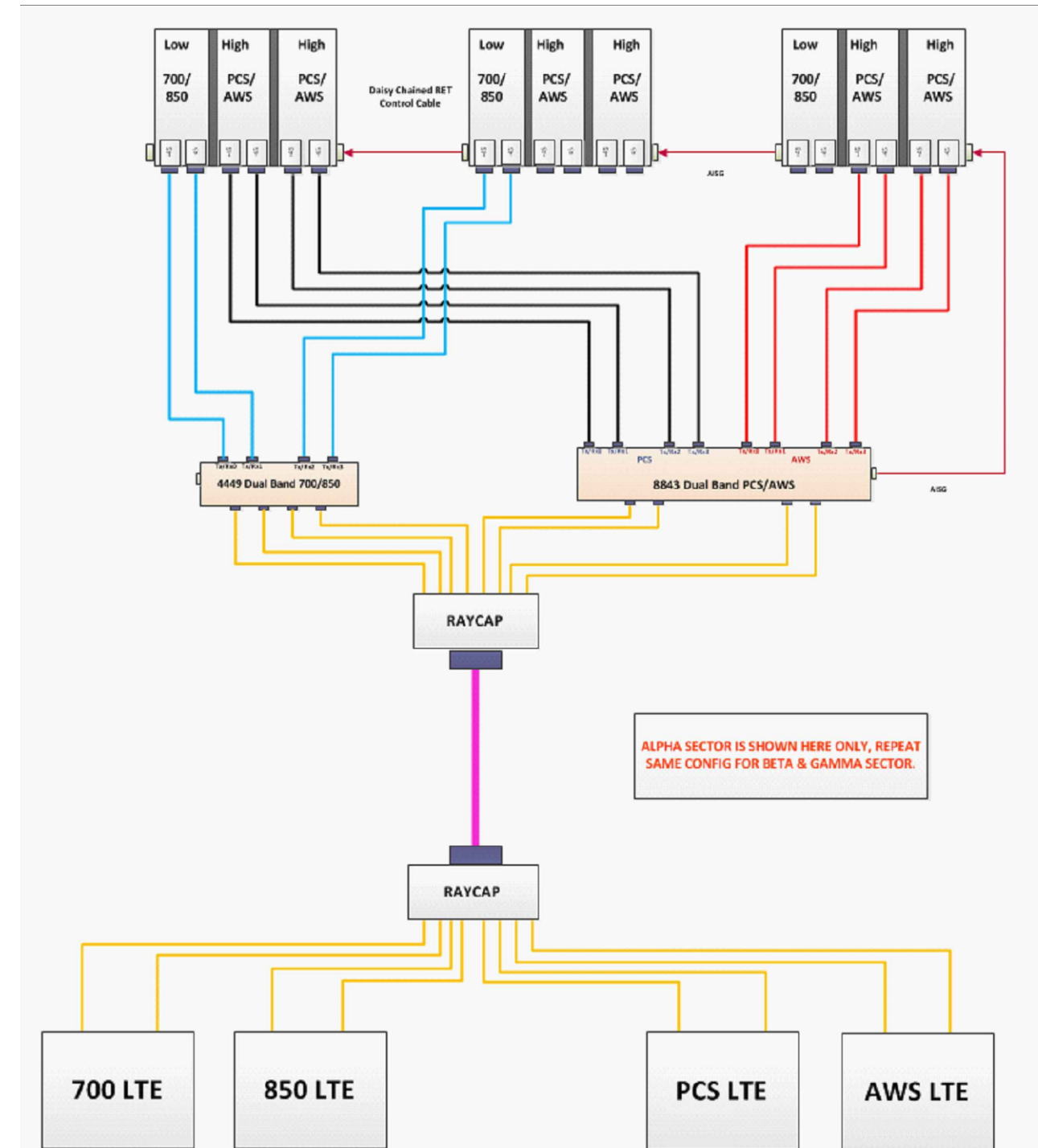
Raycap Layout - Raycap Per Sector					
POWER					
3	700 RRU	6	700 RRU2/A2		
2	PCSLT RRU	5	PCSLT RRU2/A2		
1	AWS RRU	4	AWS RRU2/A2		
FIBER					
1	2	3	4	5	6
AWS RRU	AWS RRU2/A2	PCSLTE RRU	PCSLTE RRU/A2	700 RRU	700 RRU/A2
7	8	9	10	11	12

Combiner - Cable Data

FINAL CONFIGURATION					
Passive Components	Location	Manufacturer	Component Model	Count	
	Top (Platform)	Ericsson	4449 B13/B5	3	
	Top (Platform)				
	Top (Platform)	Ericsson	8843 B66/B2	3	
	Top (Platform)				
	Top (Platform)	Raycap	RCMDC-3315-PF-48	3	
	Top (Platform)				
	Bottom (Shelter)				
	Bottom (Shelter)	Raycap	Raycap	3	
Bottom (Shelter)					
Coax	Sector	Coax Manufacturer	Type	Size	Count
	Alpha				
	Beta				
	Gamma				
	Raycap	Andrew	HFT1206-24S49-XXX	1 5/8	3

Comments

3.
 1 COMBINER CABLE DATA INFORMATION
 N.T.S.



3.
 2 CABLE DIAGRAM
 N.T.S.

EXHIBIT B

CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS



NO.	DESCRIPTION	DATE	BY
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1	UPDATE PER LATEST STRUCTURAL DESIGN	3/6/18	LS
2	FINALS PENDING FIBER	4/7/18	LS
3	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/19/18	ESH
4	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH

LOC. # 455833

WASHINGTON & JACKSON

55 S MAIN STREET
 NAPERVILLE, IL 60540

DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
 ANTENNA INFORMATION

SHEET NUMBER
 ANT-2

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	2/26/16	LS
2	UPDATE PER LATEST STRUCTURAL DESIGN	3/6/18	LS
3	FINAL PENDING FIBER	4/7/18	LS
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/19/18	ESH
	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH

LOC. # 455833

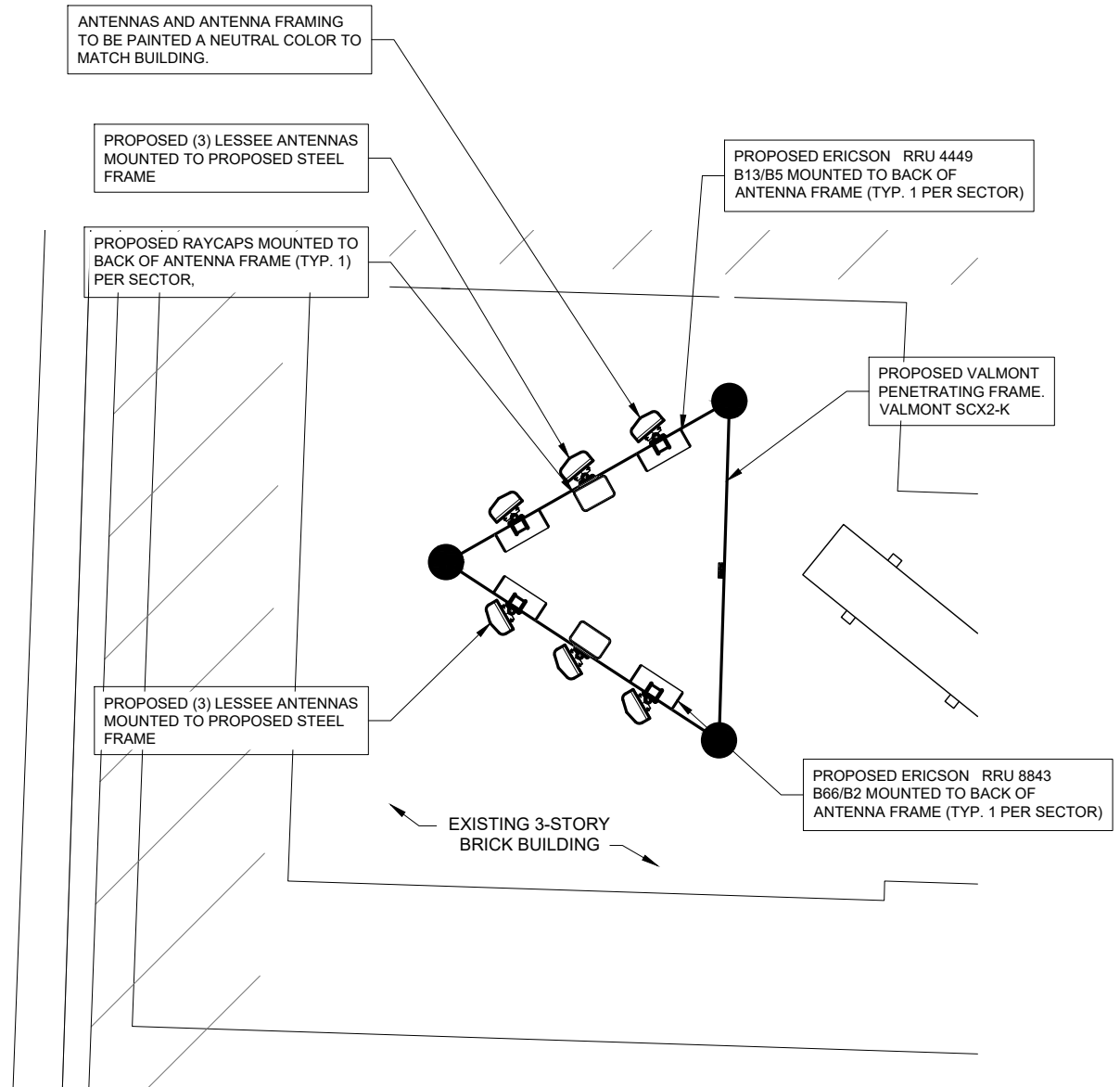
WASHINGTON & JACKSON

55 S MAIN STREET
 NAPERVILLE, IL 60540

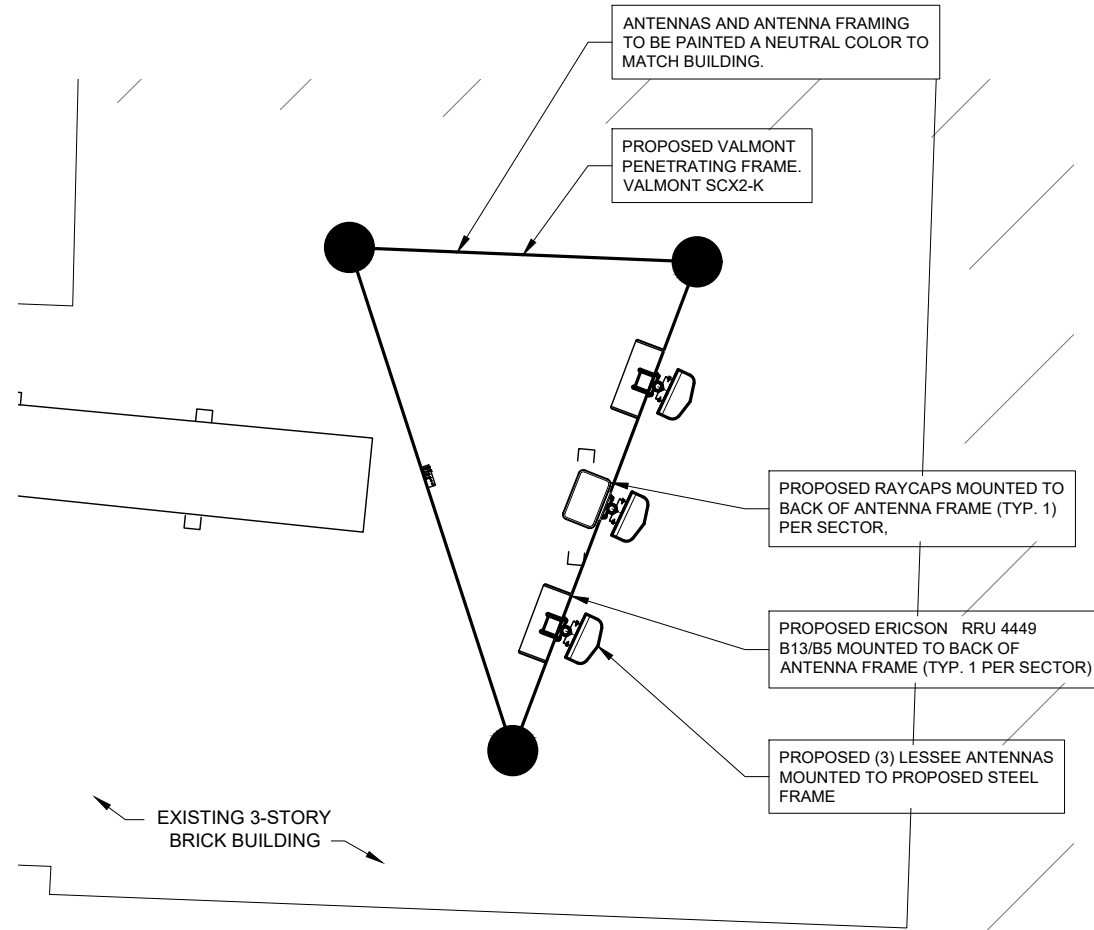
DRAWN BY: LS
 CHECKED BY: TAZ
 DATE: 8/18/17
 PROJECT #: 33-2584

SHEET TITLE
 ANTENNA LAYOUT

SHEET NUMBER
ANT-3



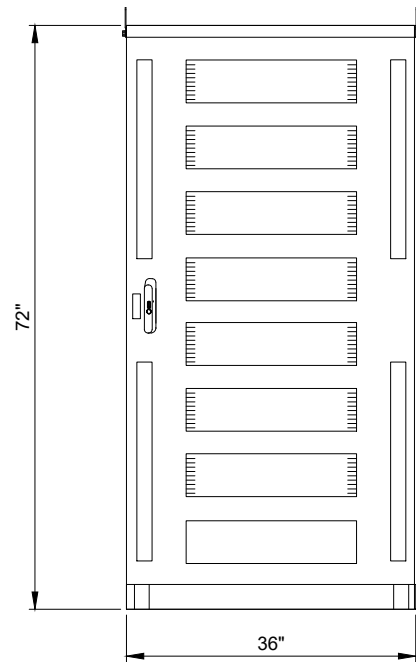
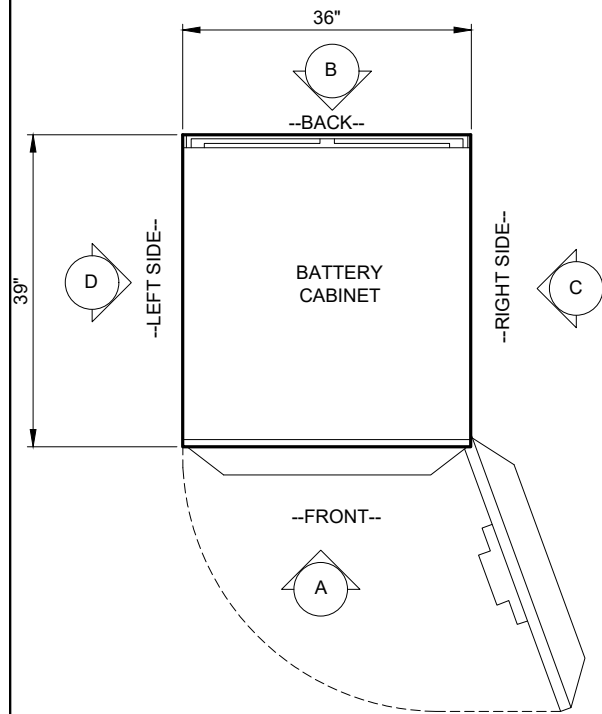
3. **1** PROPOSED ANTENNA MOUNTED TO STEEL FRAME AZ=240° & 320°
 SCALE: 1/2" = 1'-0"



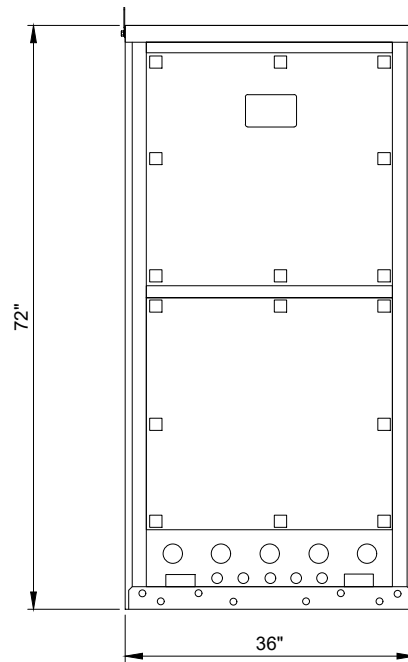
3. **2** PROPOSED ANTENNA MOUNTED TO STEEL FRAME AZ=115°
 SCALE: 1/2" = 1'-0"

EXHIBIT B

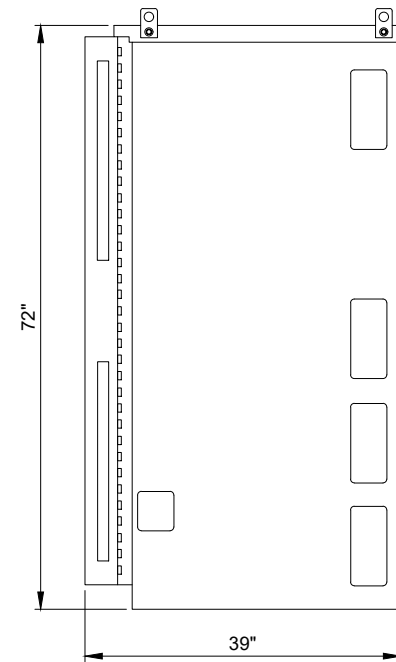
COMMSCOPE RBA72-36	
DIMENSIONS	36"W x 39"D x 72"H
WEIGHT	650 LBS (EMPTY)
WEIGHT W/BATT	2,500 LBS (TYP.)



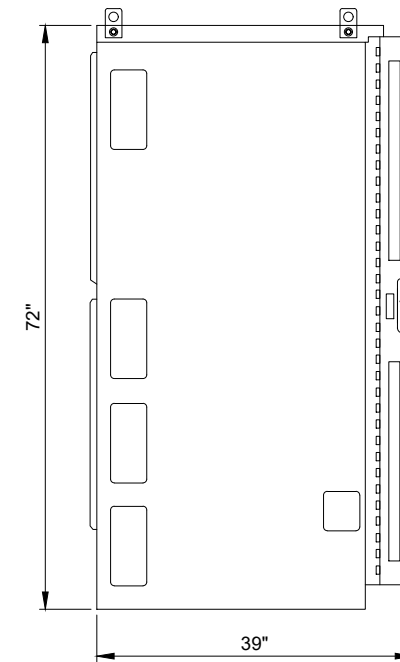
CABINET ELEVATION A



CABINET ELEVATION B



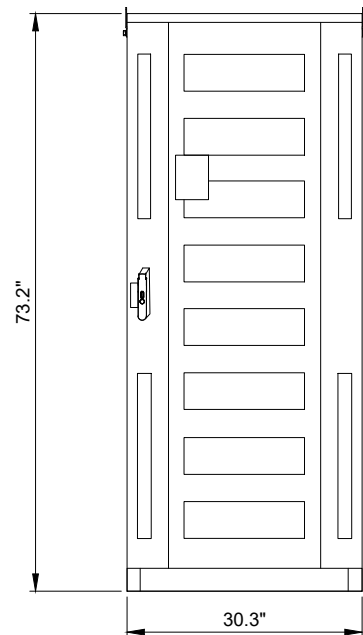
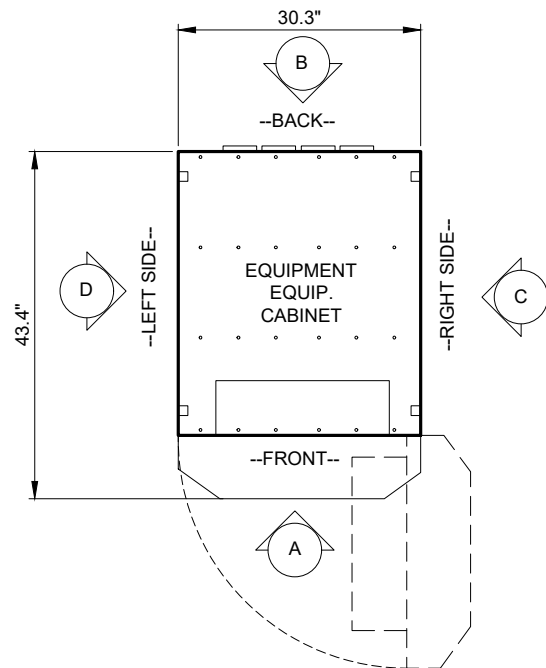
CABINET ELEVATION C



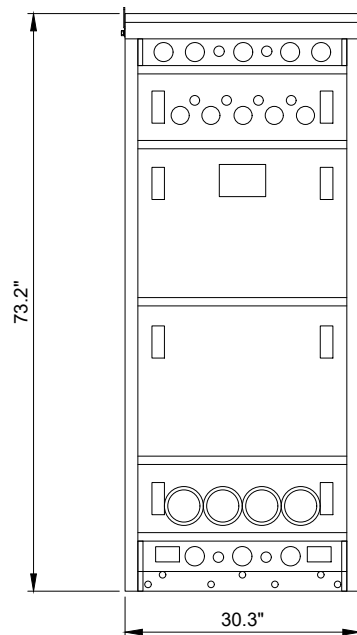
CABINET ELEVATION D

1 COMMSCOPE RBA72-36 CABINET DIMENSIONS
N.T.S.

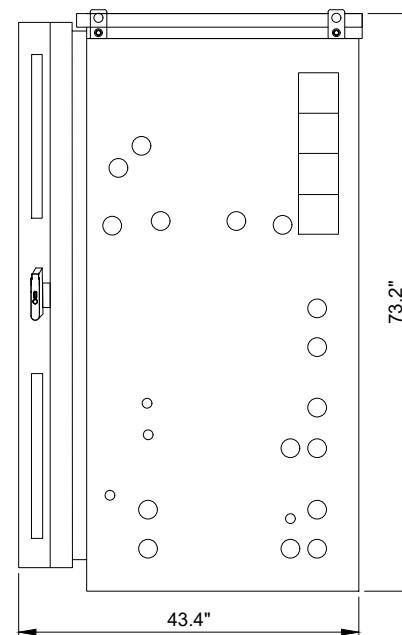
COMMSCOPE RBA72-30	
DIMENSIONS	30.3"W x 43.4"D x 73.2"H
WEIGHT	565 - 670 LBS



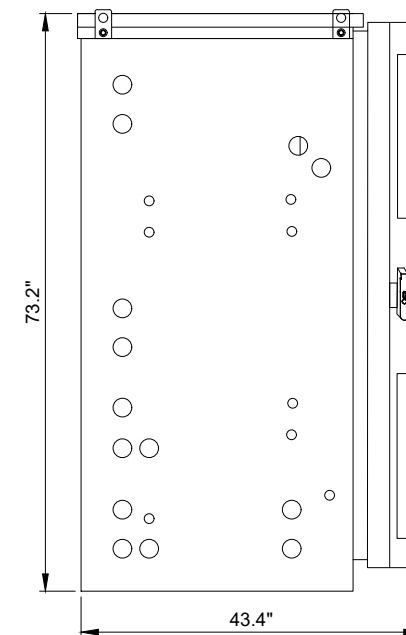
CABINET ELEVATION A



CABINET ELEVATION B



CABINET ELEVATION C



CABINET ELEVATION D

2 COMMSCOPE RBA72-30 EQUIPMENT CABINET DIMENSIONS
N.T.S.

EXHIBIT B

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS

TERRA
CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

REVISIONS		NO.	DESCRIPTION	DATE	BY
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		4	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH

LOC. # 455833

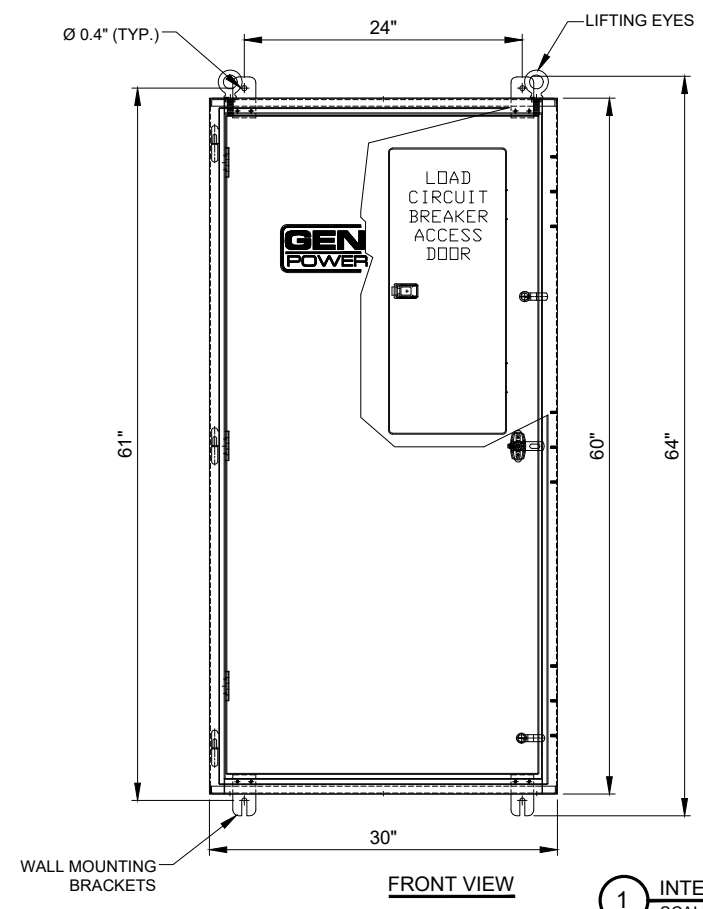
WASHINGTON & JACKSON

55 S MAIN STREET
NAPERVILLE, IL 60540

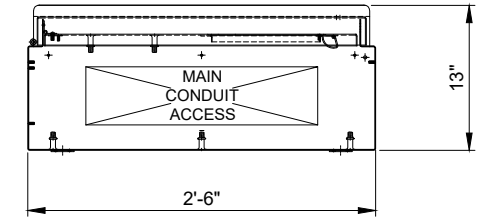
DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
EQ-1

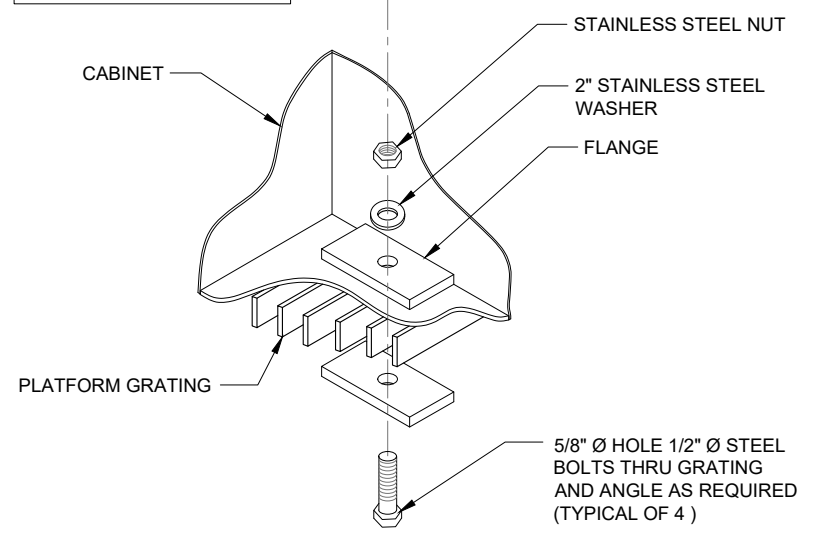


ILC RATED AMPS	Voltage	Phase	Enclosure Height	Enclosure Width	Enclosure Depth	Weight (lbs.)
200	120/240	1	60"	30"	10"	350
200	120/208	3	60"	30"	10"	350



1 INTEGRATED LOAD CENTER
 SCALE: N.T.S

VERIFY LOCATION AND QUANTITY OF ANCHORS WITH EQUIPMENT CABINET INSTALLATION MANUAL



2 TYPICAL CABINET ANCHORING DETAIL
 SCALE: N.T.S

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LOC. # 455833

WASHINGTON & JACKSON

55 S MAIN STREET
 NAPERVILLE, IL 60540

DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
EQ-2

NOTE:
 VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION USING LANDLORD'S ROOFER.

NOTE:
 * CONTRACTOR TO X-RAY WALL, PRIOR TO PENETRATIONS. DO NOT CUT REINFORCEMENT.
 * FIRE STOP ALL PENETRATIONS.
 * CORE DRILL FLOOR, WALL & SEAL AFTER CONDUITS INSTALLATION.
 * INSTALL PULL/JUNCTION BOXES AS NECESSARY PER CODE.
 * CORE DRILLING TO BE FROM THE EXTERIOR TO INTERIOR TO PREVENT SPALLING.

PROPOSED EQUIPMENT CABINETS :
 ① COMMSCOPE RBA72-36 BATTERY CABINET (36"x40.6x72") 3,900 LBS
 ② COMMSCOPE RBA72-30 EQUIPMENT CABINET (31.3"x 44"x72") 480-740 LBS

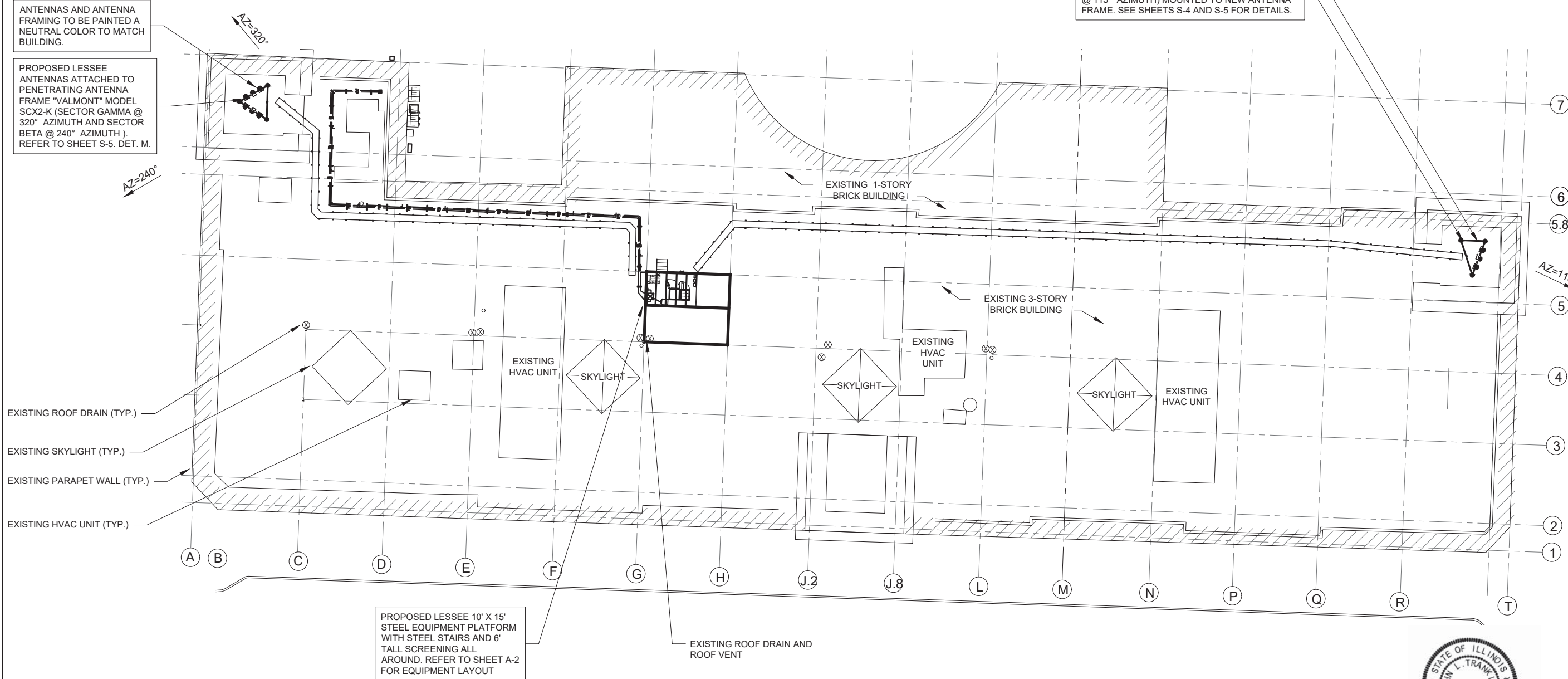
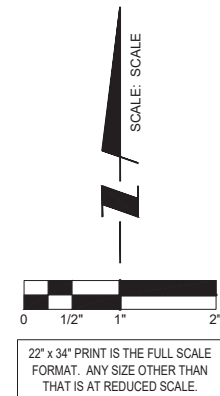
NOTE:
 LESSEE IS RESPONSIBLE FOR ENSURING THAT PROPER BRACING/FRAMING IS SUFFICIENT TO SUPPORT ALL ADDITIONAL EQUIPMENT.

ANTENNAS AND ANTENNA FRAMING TO BE PAINTED A NEUTRAL COLOR TO MATCH BUILDING.

PROPOSED LESSEE ANTENNAS ATTACHED TO PENETRATING ANTENNA FRAME "VALMONT" MODEL SCX2-K (SECTOR GAMMA @ 320° AZIMUTH AND SECTOR BETA @ 240° AZIMUTH). REFER TO SHEET S-5, DET. M.

ANTENNAS AND ANTENNA FRAMING TO BE PAINTED A NEUTRAL COLOR TO MATCH BUILDING.

PROPOSED LESSEE ANTENNAS (SECTOR ALPHA @ 115° AZIMUTH) MOUNTED TO NEW ANTENNA FRAME. SEE SHEETS S-4 AND S-5 FOR DETAILS.



CONTRACTOR TO PROVIDE APPROXIMATE 50'x50' STAGING AREA AND TEMPORARY ROAD. CONTRACTOR SHALL COORDINATE WITH ANTENNA CONTRACTOR, A STAGING AREA AND TEMPORARY ROAD WITH LANDLORD REPS, MELODY DIENER (630) 634-4315. STAGING AREA AND TEMPORARY ROAD SHALL BE RESTORED TO EXISTING CONDITIONS AS NECESSARY UPON COMPLETION OF THE PROJECT.

A ROOF PLAN
 SCALE: 1/8" = 1'-0"

7/30/18
 EXP 11/18



[Signature]

CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS

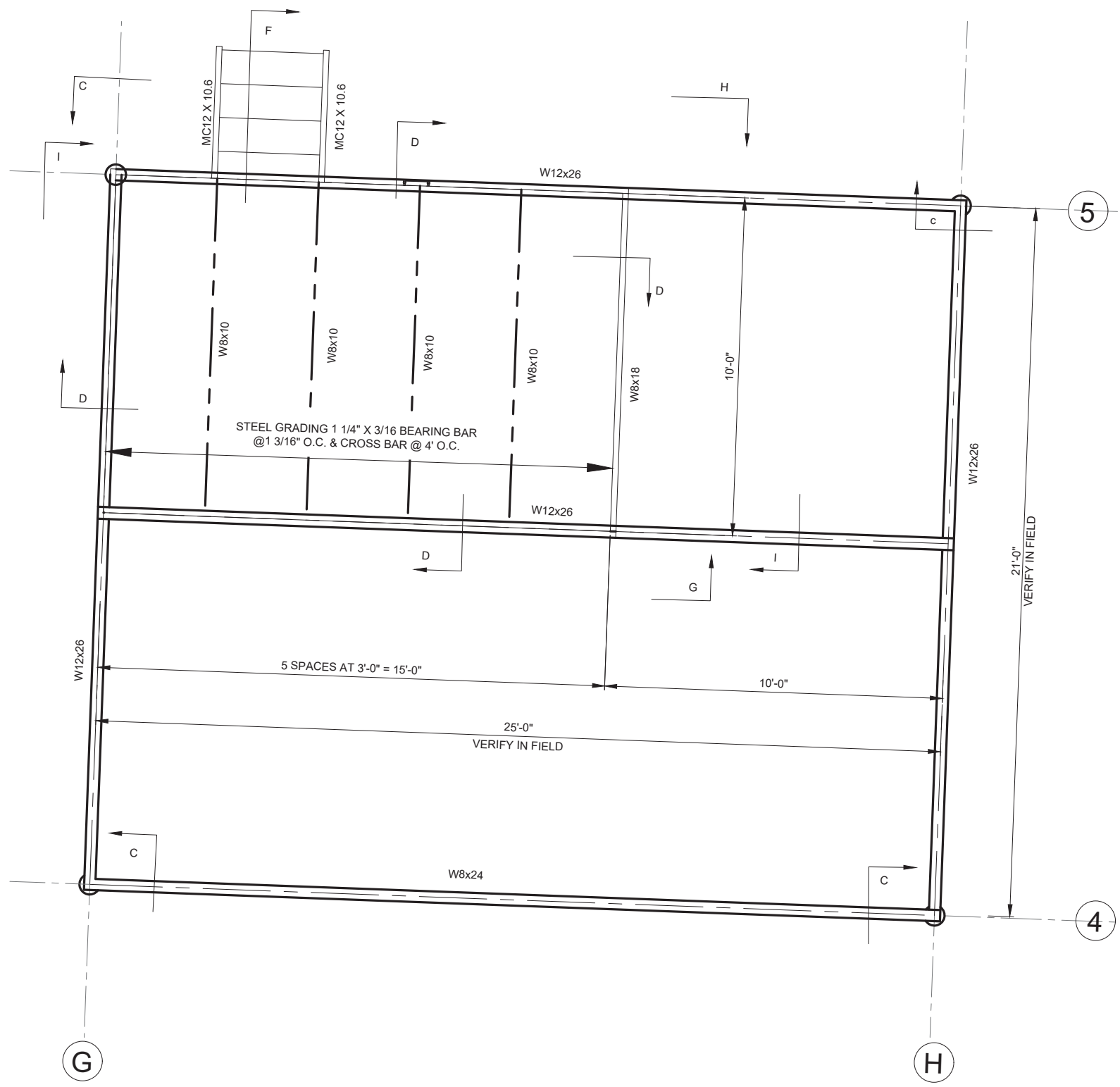
TERRA
 CONSULTANTS AND ENGINEERS, LTD.
 600 BUSSE HIGHWAY
 PARK RIDGE, IL 60068
 PH: 847-498-6400
 FAX: 847-698-6401

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LOC. # 455833
WASHINGTON & JACKSON
 55 S MAIN STREET
 NAPERVILLE, IL 60540

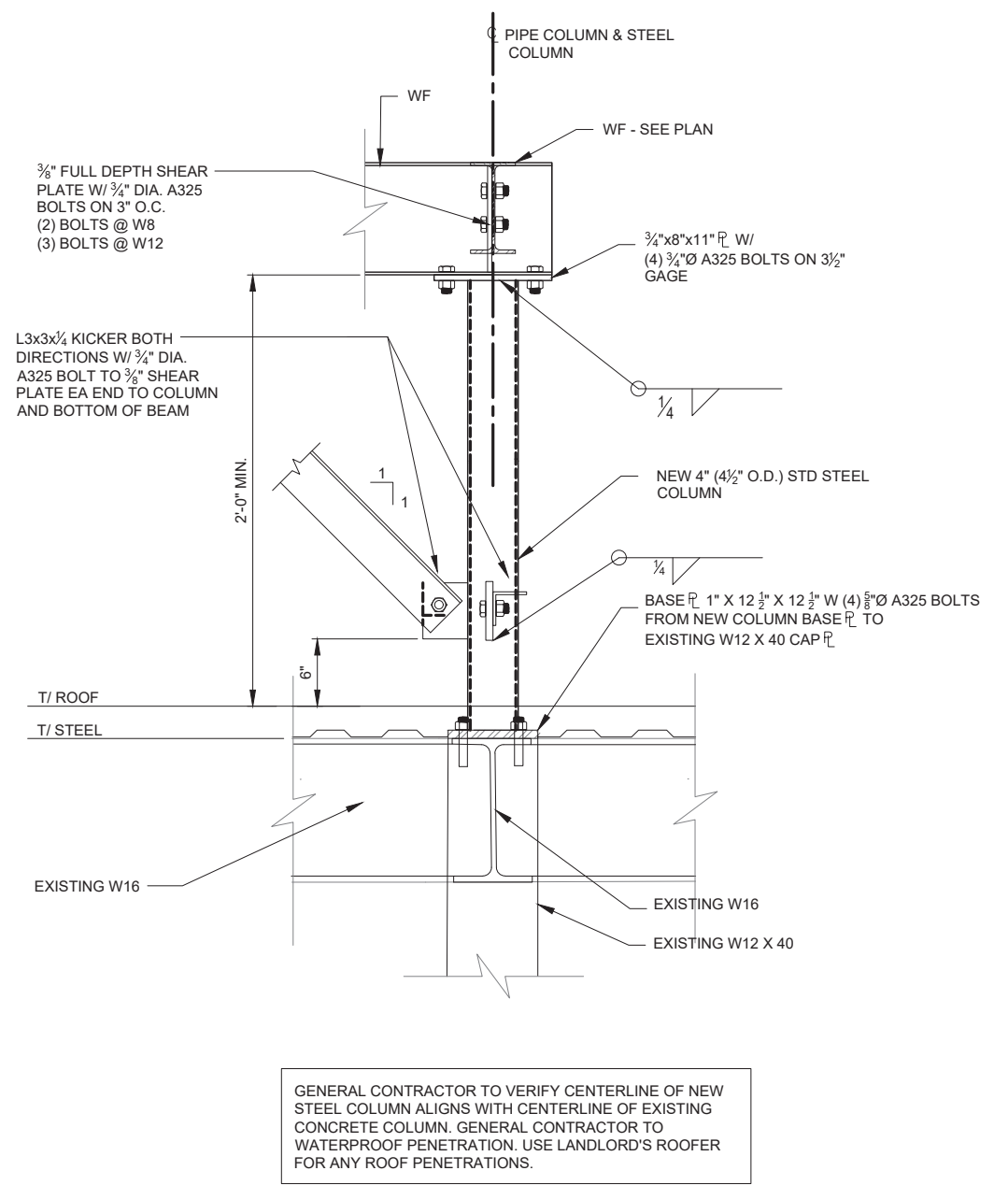
DRAWN BY: LS
 CHECKED BY: TAZ
 DATE: 8/18/17
 PROJECT #: 33-2584

SHEET TITLE
ROOF PLAN
 SHEET NUMBER
S-1



B PROPOSED PLATFORM EQUIPMENT LAYOUT
SCALE: 1/2" = 1'-0"

EXHIBIT B



GENERAL CONTRACTOR TO VERIFY CENTERLINE OF NEW STEEL COLUMN ALIGNS WITH CENTERLINE OF EXISTING CONCRETE COLUMN. GENERAL CONTRACTOR TO WATERPROOF PENETRATIONS. USE LANDLORD'S ROOFER FOR ANY ROOF PENETRATIONS.

C TYPICAL COLUMN DETAIL
SCALE: 1 1/2" = 1'-0"

7/30/18
EXP 11/18



CHICAGO
SMSA
limited partnership
d/b/a VERIZON WIRELESS



NO.	DESCRIPTION	DATE	BY	LS	LS	LS	ESH	ESH
			DATE					
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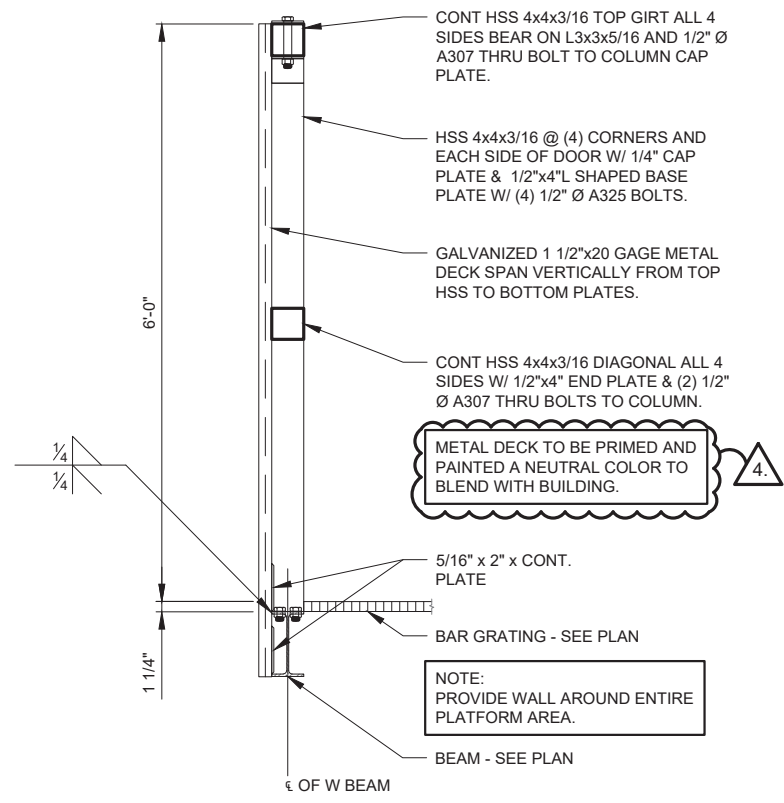
LOC. # 455833
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55 S MAIN STREET
NAPERVILLE, IL 60540

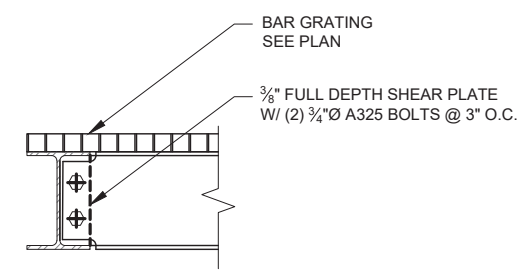
DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
DETAILS

SHEET NUMBER
S-2



D TYPICAL PLATFORM SCREENWALL
SCALE: 1" = 1'-0"



E TYPICAL BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"

PLATFORM DESIGN LOADS:

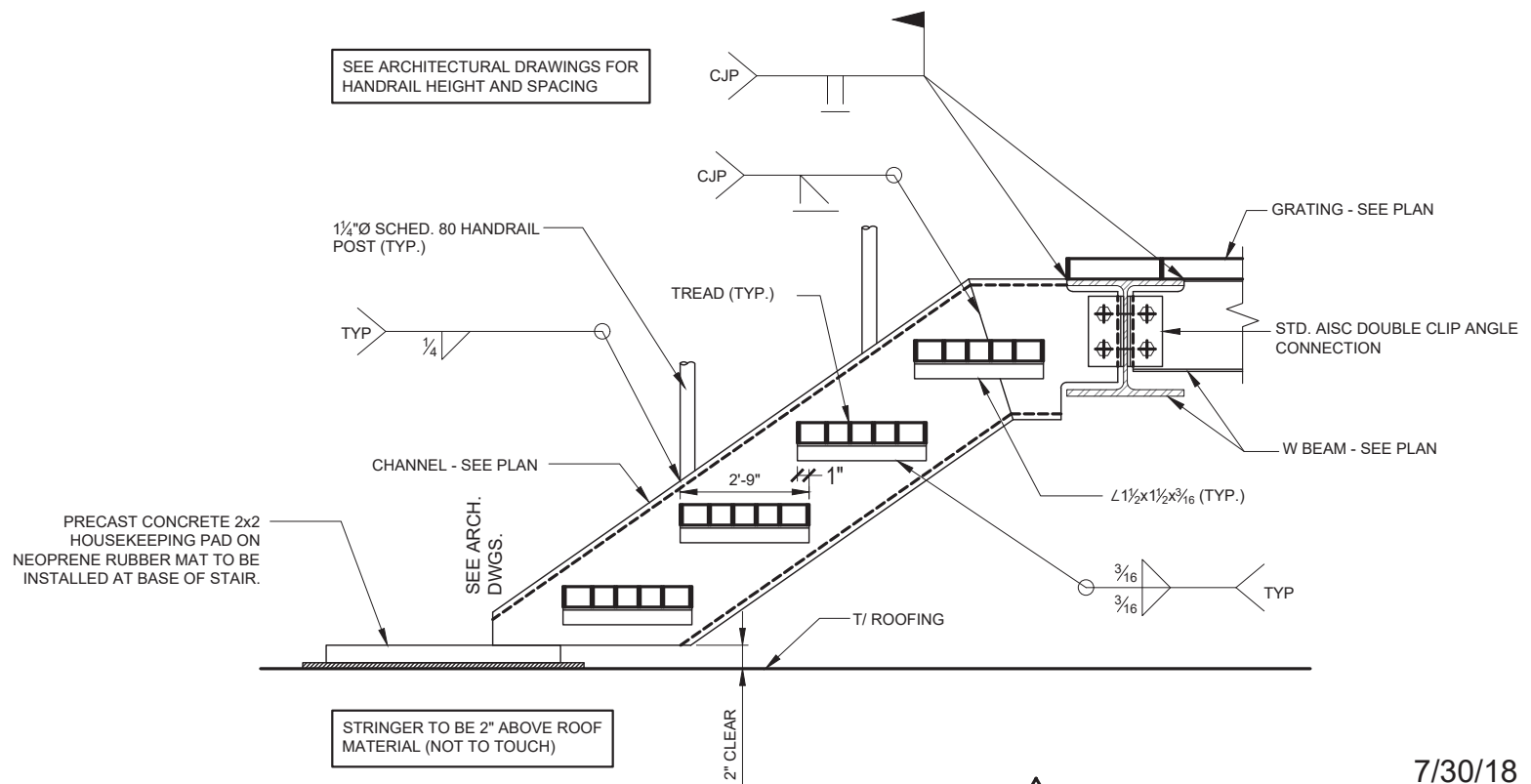
ROOF SNOW:	= 25 PSF + DRIFT	ELEVATED PLATFORM GRATING LIVE LOAD	= 100 PSF
		GRATING DEAD LOAD	= 11 PSF

MISCELLANEOUS NOTES:

- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS OF ALL DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.
- NO OPENINGS, OTHER THAN THOSE SHOWN ON DESIGN DRAWINGS AND APPROVED SHOP DRAWINGS, SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
- OPENINGS OF 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF THOSE OPENINGS. PROVIDE REINFORCING AROUND OPENINGS PER TYPICAL DETAILS SHOWN ON STRUCTURAL DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR SHALL FURNISH ALL TEMPORARY BRACING AND / OR SUPPORTS REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND / OR SEQUENCES.
- DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
- CONTRACTOR'S CONSTRUCTION AND / OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
- THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
- ALL THING WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS AND AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. PLANS AND / OR SPECIFICATIONS WILL BE CORRECTED, OR A WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE EFFECTED WORK PROCEEDS.
- PRIOR TO INSTALLATION OF ANTENNA MOUNTS OR SUPPORT FRAMES INTO MASONRY, THE SURROUNDING AREA IS TO BE SOUNDED BY A QUALIFIED MASON. ALL LOOSE AND/OR CRACKED BRICK SHALL BE REPLACED AND DAMAGED MORTAR JOINTS TUCK POINTED. THE MASONRY SHALL BE IN GOOD WORKING CONDITION PRIOR TO THE INSTALLATION OF ANY ITEMS.

GENERAL STEEL NOTES:

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION, EXCEPT AS MODIFIED BELOW OR IN THE SPECIFICATIONS.
- ALL STRUCTURAL STEEL W SHAPES SHALL CONFORM TO ASTM A572 OR A992 GRADE 50. ALL STEEL TO BE GALVANIZED. ALL OTHER STRUCTURAL STEEL SHAPES, PLATES, AND BARS SHALL CONFORM TO ASTM A36 OR 36, UNLESS NOTED OTHERWISE. COLD FORMED TUBING SHALL CONFORM TO ASTM A500 GRADE B. PIPES SHALL CONFORM TO ASTM A53 TYPE E OR S. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 & BE COMPATIBLE WITH ETOXX ELECTRONICS.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION. ALL WELDING ELECTRODES SHALL BE E70XX.
- THE CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS AND EXISTING CONDITIONS.
- IF CONDITIONS VARY FROM THOSE ON THE DRAWINGS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR SHALL OBSERVE ALL SAFETY RULES DICTATED BY CODE AND GOOD PRACTICE.
- SHOULD UNFORESEEN CONDITIONS OR OTHER CAUSE NECESSITATE THE CONSTRUCTION DETAILS TO BE MODIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PERFORMING THESE CHANGES.
- ALL STEEL MEMBERS AND BOLTS TO BE GALVANIZED/NON-CORROSIVE



F TYPICAL STAIRS
SCALE: 1 1/2" = 1'-0"



7/30/18
EXP 11/18

EXHIBIT B

CHICAGO SMSA limited partnership d/b/a VERIZON WIRELESS



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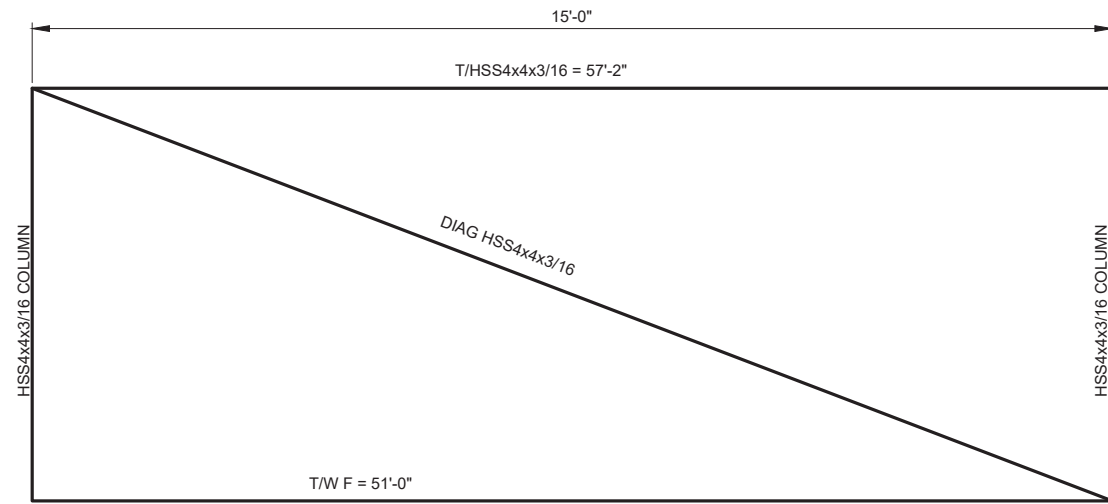
LOC. # 455833

WASHINGTON & JACKSON

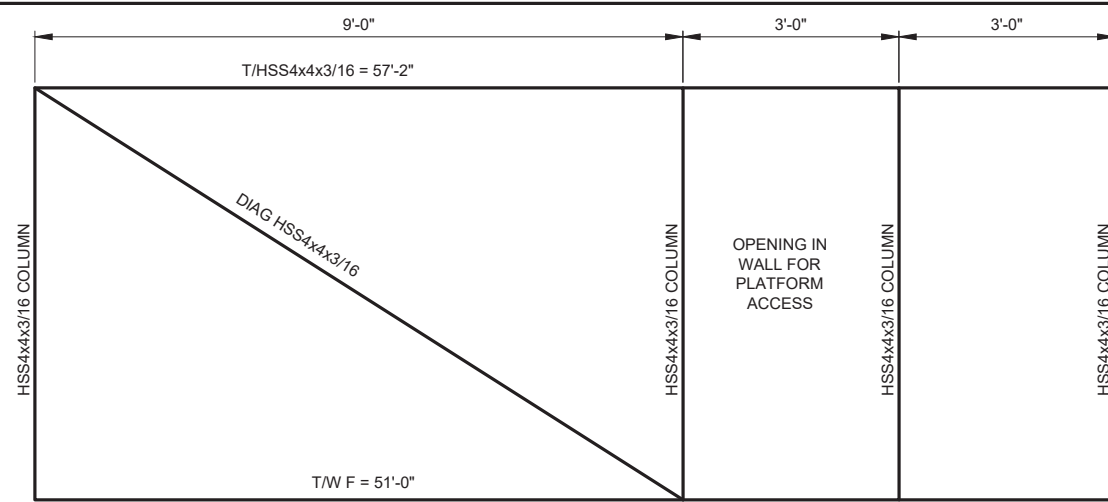
55 S MAIN STREET
NAPERVILLE, IL 60540

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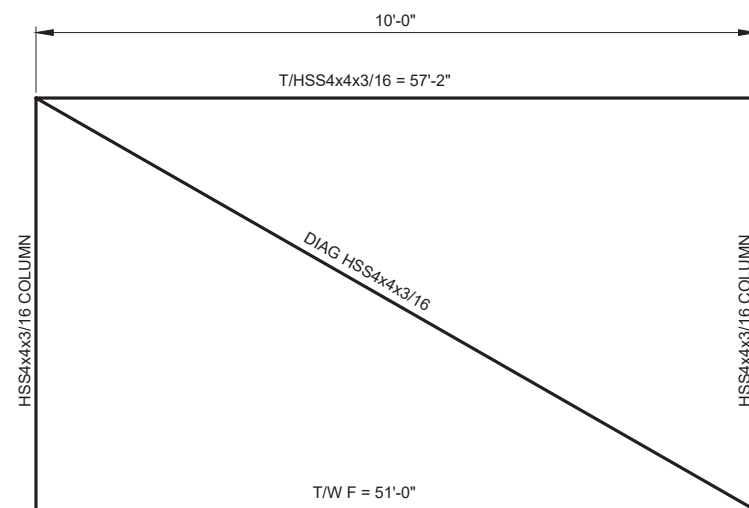
SHEET TITLE
DETAILS AND NOTES
SHEET NUMBER
S-3



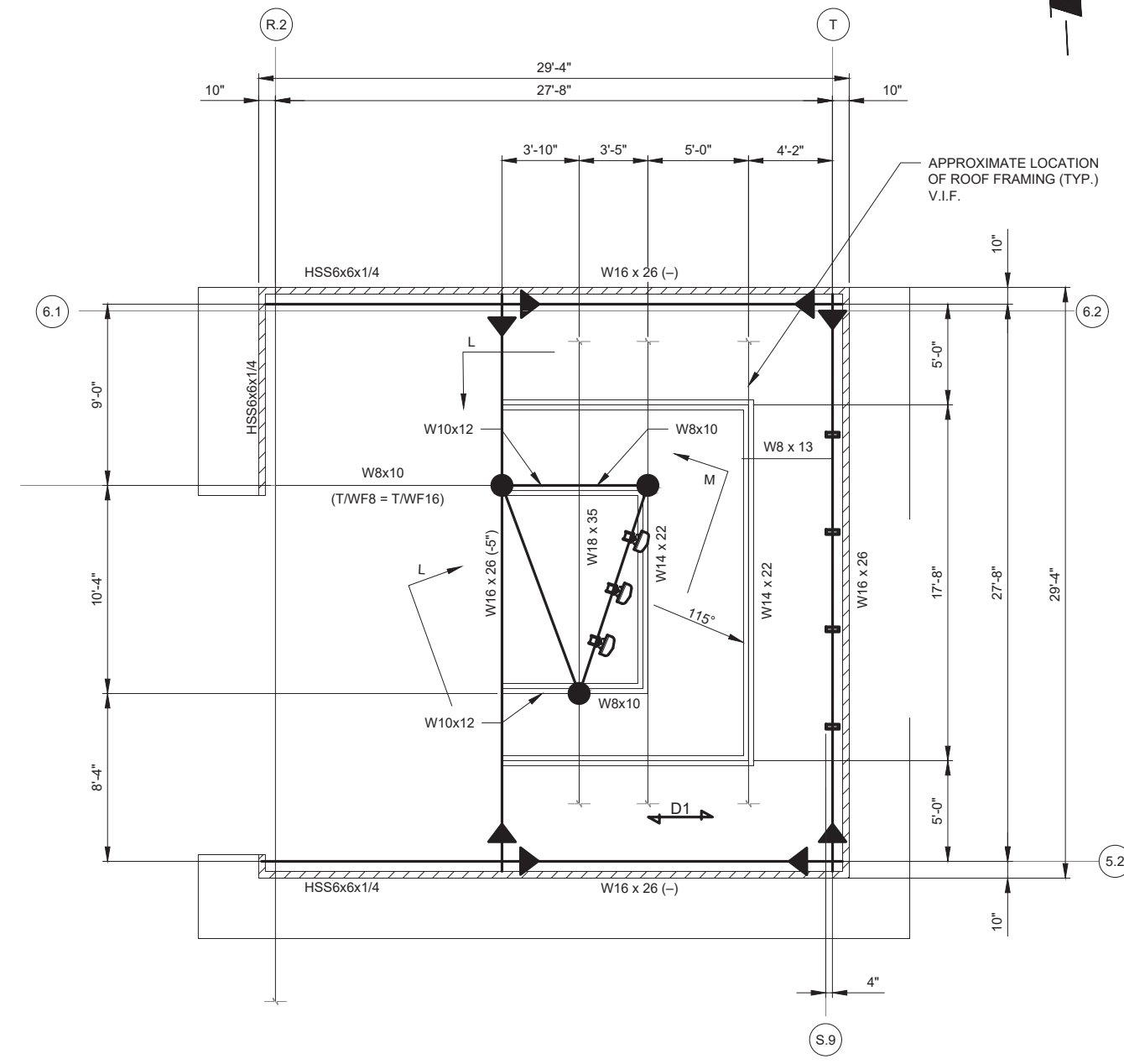
G SOUTH SCREEN WALL ELEVATION
SCALE: 3/4" = 1'-0"



H NORTH SCREEN WALL ELEVATION
SCALE: 3/4" = 1'-0"



I EAST AND WEST SCREEN WALL ELEVATIONS
SCALE: 3/4" = 1'-0"



J PENTHOUSE PLAN @ ALPHA
SCALE: 1/4" = 1'-0"

7/30/18
EXP 11/18



[Signature]

CHICAGO
SMSA
limited partnership
d/b/a VERIZON WIRELESS



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WASHINGTON & JACKSON

55 S MAIN STREET
NAPERVILLE, IL 60540

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SHEET TITLE
DETAILS

SHEET NUMBER
S-4

EXHIBIT B

NOTE:
 VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION USING LANDLORD'S ROOFER.

NOTE:
 * CONTRACTOR TO X-RAY WALL, PRIOR TO PENETRATIONS. DO NOT CUT REINFORCEMENT.
 * FIRE STOP ALL PENETRATIONS.
 * CORE DRILL FLOOR, WALL & SEAL AFTER CONDUITS INSTALLATION.
 * INSTALL PULL/JUNCTION BOXES AS NECESSARY PER CODE.
 * CORE DRILLING TO BE FROM THE EXTERIOR TO INTERIOR TO PREVENT SPALLING.

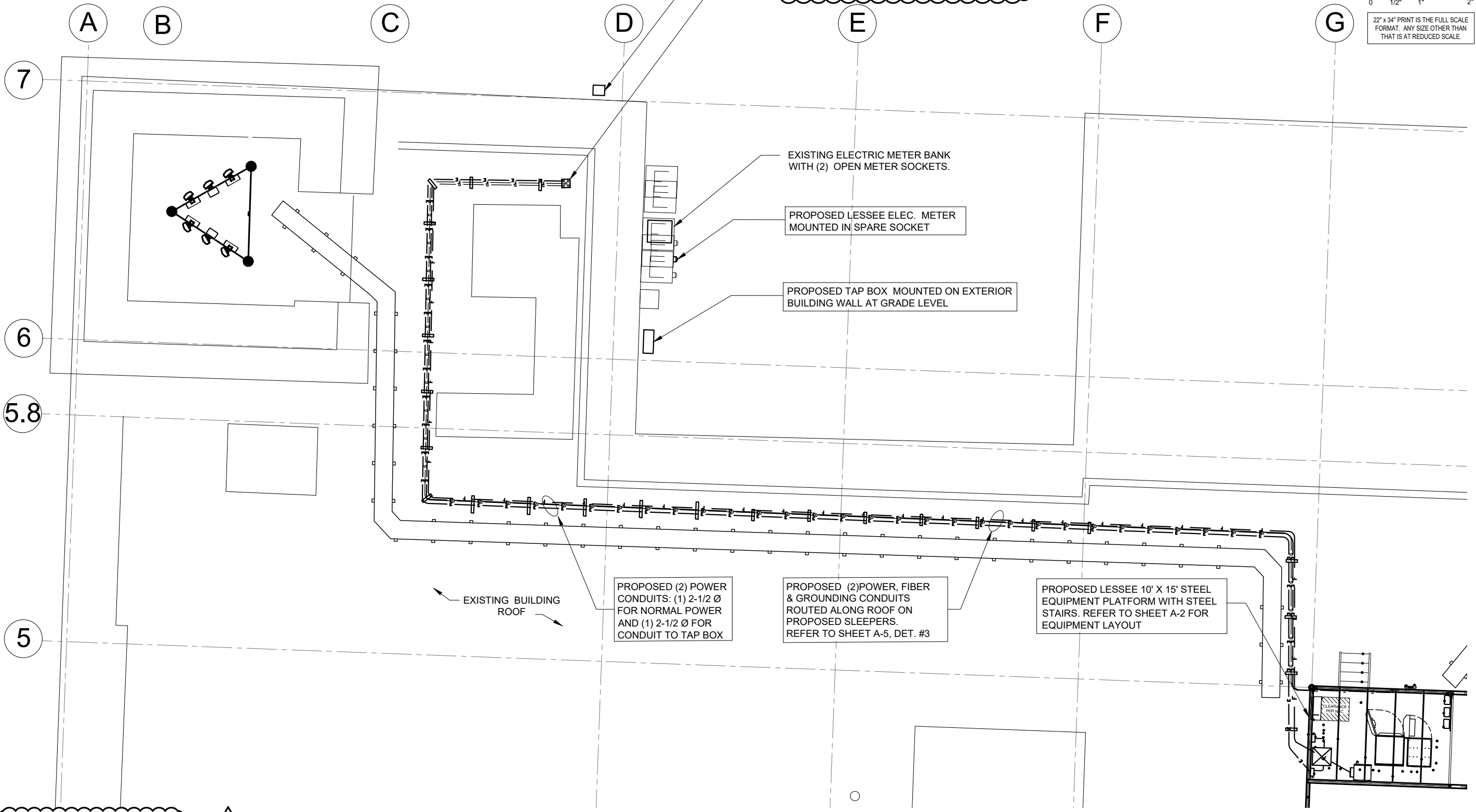
PROPOSED FIBER BOX ON EXTERIOR WALL

PROPOSED ROOF PENETRATION FOR (2) POWER FIBER & GROUNDING CONDUITS ROUTED DOWN TO ELECTRICAL ROOM THROUGH EXISTING ELECTRIC CHASE. USE LANDLORD'S REQUIRED ROOFER TO MAINTAIN ROOF WARRANTY. REFER TO SHEET A-7, DET. #5

PROPOSED (2) POWER CONDUITS: (1) 2-1/2" Ø FOR NORMAL POWER AND (1) 2-1/2" Ø FOR CONDUIT TO TAP BOX

PROPOSED (2) POWER, FIBER & GROUNDING CONDUITS ROUTED ALONG ROOF ON PROPOSED SLEEPERS. REFER TO SHEET A-5, DET. #3

PROPOSED LESSEE 10' X 15' STEEL EQUIPMENT PLATFORM WITH STEEL STAIRS. REFER TO SHEET A-2 FOR EQUIPMENT LAYOUT



SEE ARCHITECTURAL SHEETS FOR COMPLETE NOTES.

1 PARTIAL ROOF PLAN
 SCALE: 3/8" = 1'-0"
EXHIBIT B

CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS

TERRA
 CONSULTING GROUP, LTD.
 600 BUSSE HIGHWAY
 PARK RIDGE, IL 60068
 PH: 847-698-6400
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WASHINGTON & JACKSON
 55 S MAIN STREET
 NAPERVILLE, IL 60540

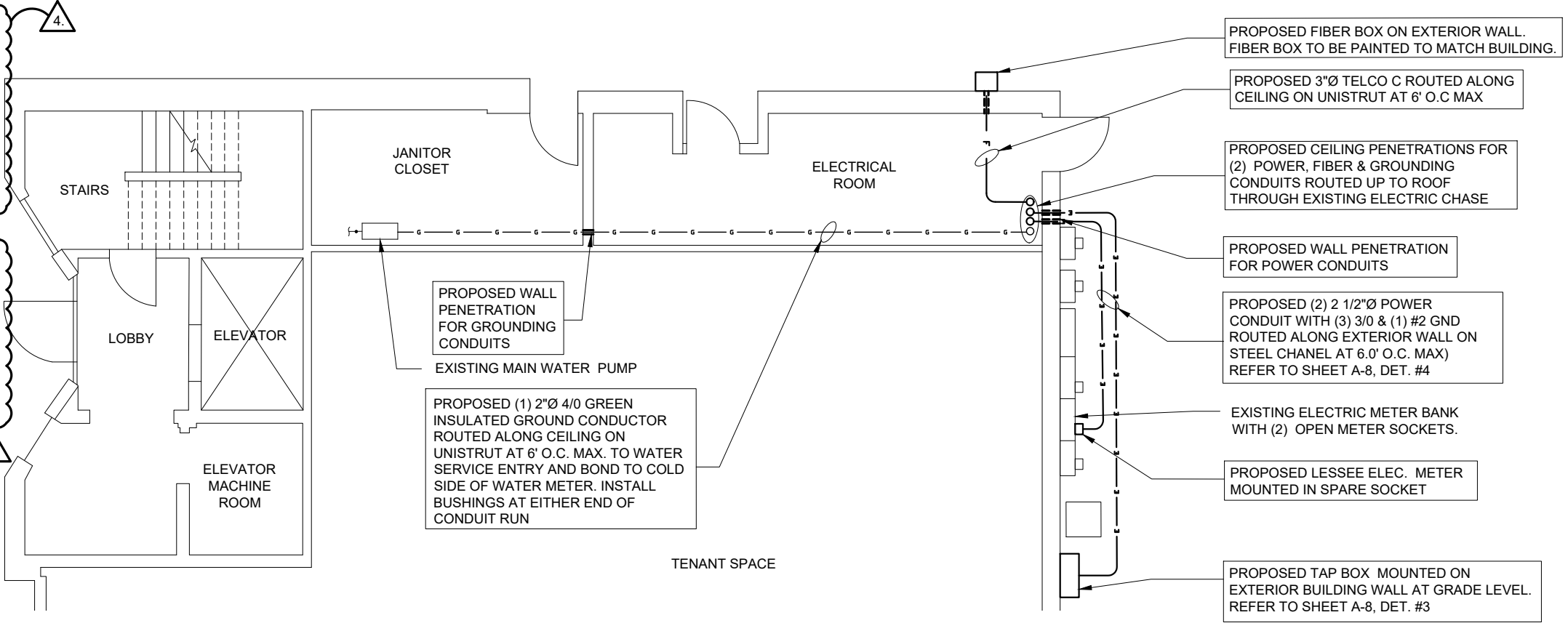
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DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
UTILITY ROUTING PLAN

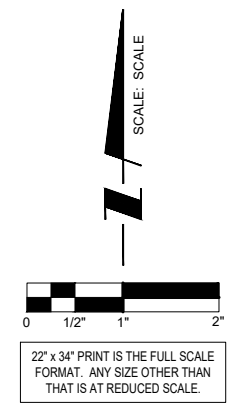
SHEET NUMBER
E-1

NOTE:
 * CONTRACTOR TO X-RAY WALL, PRIOR TO PENETRATIONS. DO NOT CUT REINFORCEMENT.
 * FIRE STOP ALL PENETRATIONS.
 * CORE DRILL FLOOR, WALL & SEAL AFTER CONDUITS INSTALLATION.
 * INSTALL PULL/JUNCTION BOXES AS NECESSARY PER CODE.
 * CORE DRILLING TO BE FROM THE EXTERIOR TO INTERIOR TO PREVENT SPALLING.

NOTE:
 * COORDINATE PENETRATION WORK WITH LANDLORD'S REPS.
 * PROVIDE WEATHERPROOF LABELS FOR LESSEE METER.
 * PAINT CONDUIT TO MATCH EXISTING FACADE COLOR.
 * WEATHERPROOF THE WALL PENETRATIONS TO PREVENT WATER INTRUSION.



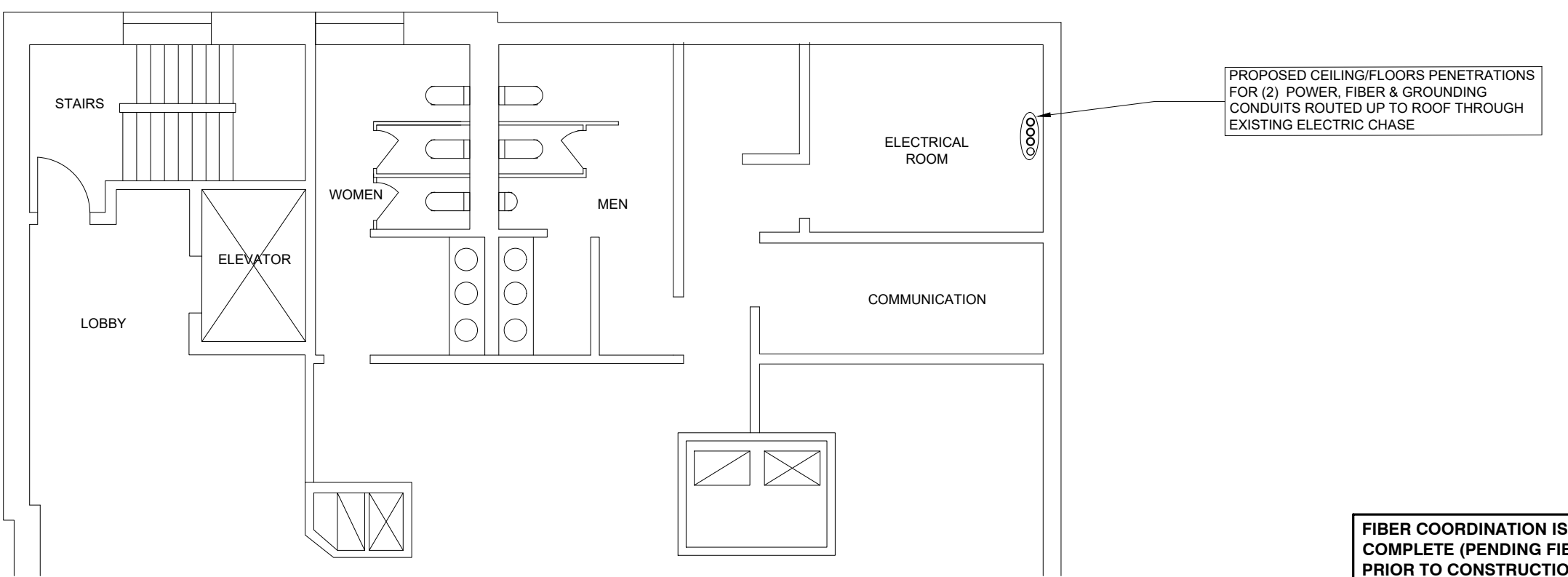
1 PARTIAL 1ST FLOOR
 SCALE: 3/16" = 1'-0"



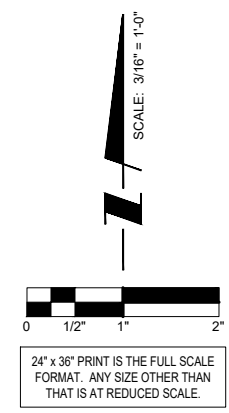
CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS

TERRA
 CONSULTING GROUP, LTD.
 600 BUSSE HIGHWAY
 PARK RIDGE, IL 60068
 PH: 847-698-6400
 FAX: 847-698-6401

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4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/19/18	ESH
5	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH



2 PARTIAL TYPICAL FLOOR
 SCALE: 3/16" = 1'-0"



FIBER COORDINATION IS NOT COMPLETE (PENDING FIBER CONTACT). PRIOR TO CONSTRUCTION, CONTACT DESIGNER FOR UPDATE.

LOC. # 455833
WASHINGTON & JACKSON
 55 S MAIN STREET
 NAPERVILLE, IL 60540

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SHEET TITLE
UTILITY ROUTING PLAN

SHEET NUMBER
E-2

EXHIBIT B

ANTENNAS AND ANTENNA FRAMING TO BE PAINTED A NEUTRAL COLOR TO MATCH BUILDING.

PROPOSED LESSEE ANTENNAS ATTACHED TO PENETRATING ANTENNA FRAME "VALMONT" MODEL SCX2-K (SECTOR GAMMA @ 320° AZIMUTH AND SECTOR BETA @ 240° AZIMUTH). REFER TO SHEET S-5. DET. M.

SEE SHEET E-4, DET. #2

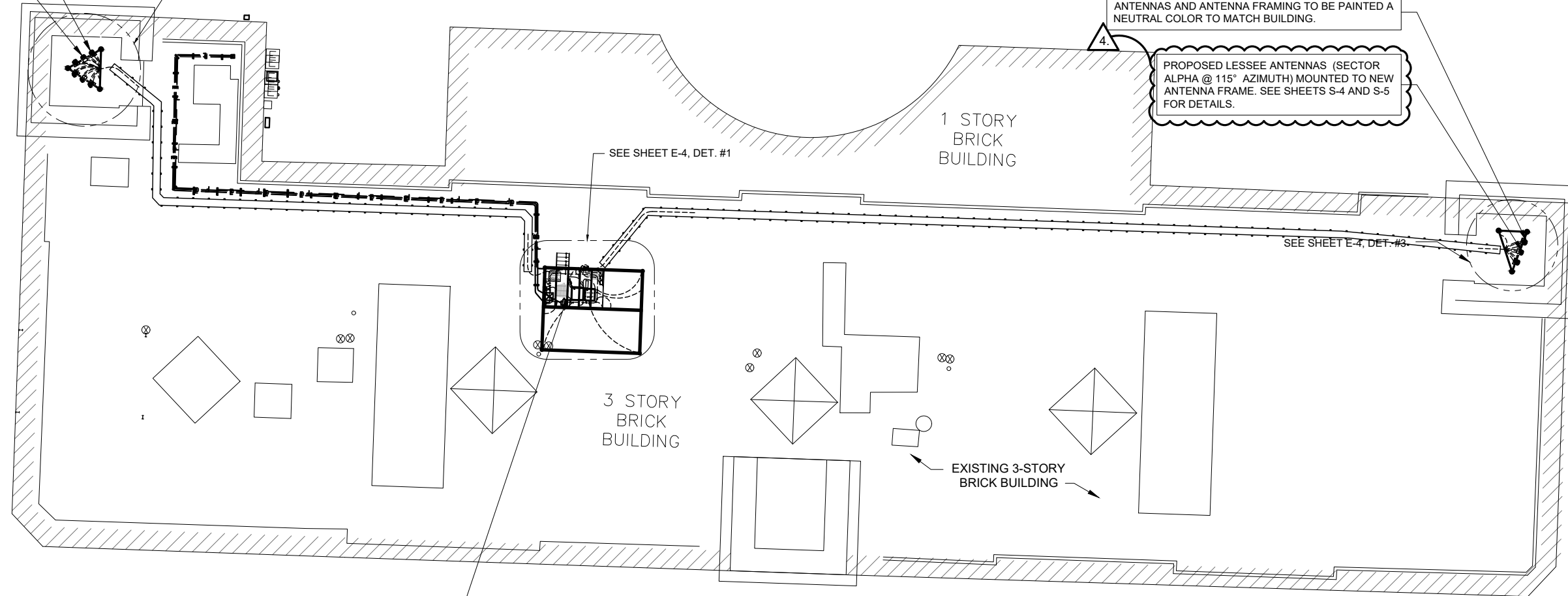
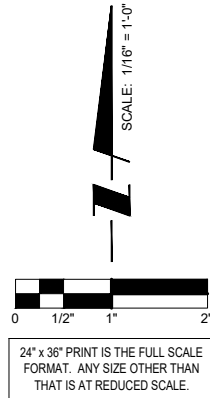
SEE SHEET E-4, DET. #1

ANTENNAS AND ANTENNA FRAMING TO BE PAINTED A NEUTRAL COLOR TO MATCH BUILDING.

PROPOSED LESSEE ANTENNAS (SECTOR ALPHA @ 115° AZIMUTH) MOUNTED TO NEW ANTENNA FRAME. SEE SHEETS S-4 AND S-5 FOR DETAILS.

SEE SHEET E-4, DET. #3

PROPOSED LESSEE 10' X 15' STEEL EQUIPMENT PLATFORM WITH STEEL STAIRS AND 6' TALL SCREENING ALL AROUND. REFER TO SHEET A-2 FOR EQUIPMENT LAYOUT



1 ROOF PLAN
SCALE: 1/16" = 1'-0"

EXHIBIT B

CHICAGO SMSA
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LOC. # 455833

WASHINGTON & JACKSON

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NAPERVILLE, IL 60540

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SHEET TITLE
GROUNDING ROUTING PLAN

SHEET NUMBER
E-3

GROUNDING REFERENCE NOTES

- ① REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ANTENNA(S), PLATFORM AND ANTENNA SUPPORT FRAMES.
- ② PROVIDE #2 GROUND RING ATTACHED BOTTOM OF PROPOSED PLATFORM
- ③ PROVIDE MASTER GROUND BAR AT BASE OF CABINET MOUNT TO STEEL PLATFORM.
- ④ GROUND GPS ANTENNA TO MAIN GROUND BAR
- ⑤ (2) #2 GND. LEAD FOR EQUIPMENT CABINET GROUND BAR

- ⑥ PROVIDE ANTENNA SECTOR GROUND BAR (AGB) (HARGER 1/4" X 4" X 12") BOND ANTENNA CABLE GROUNDING KITS TO GROUND BAR. CONNECTION SHALL BE THE RESPONSIBILITY OF THE ANTENNA CABLE INSTALLER. BOND ANTENNA GROUND BAR TO NEAREST USING ONE(1) #2 AWG SOLID TINNED COPPER CONDUCTOR. PROVIDE A U.L. LISTED CONNECTOR SUITABLE FOR THE MATERIALS BEING CONNECTED. PROVIDE EXOTHERMIC WELDS
- ⑦ EXTEND GROUNDING CONDUCTOR TO ANTENNA, RAYCAP OR RRU MODULE EXOTHERMIC WELD AT ANTENNA SUPPORT FRAME. SUPPORT CONDUCTOR AS REQUIRED EVERY TWO (2) FEET MINIMUM.
- ⑧ GROUND ANTENNA SUPPORT FRAME TO SECTOR GROUND BAR
- ⑨ PROVIDE #2 GROUNDING CONDUCTOR FROM GROUND BAR TO GROUND RING TYPICAL OF 2
- ⑩ 2"Ø CONDUIT, 4/0 GREEN INSULATED GROUND CONDUCTOR ROUTED ALONG BUILDING ROOF ON PROPOSED NON-PENETRATING PVC SLEEPERS, THAN DOWN TO EXISTING WATER MAIN

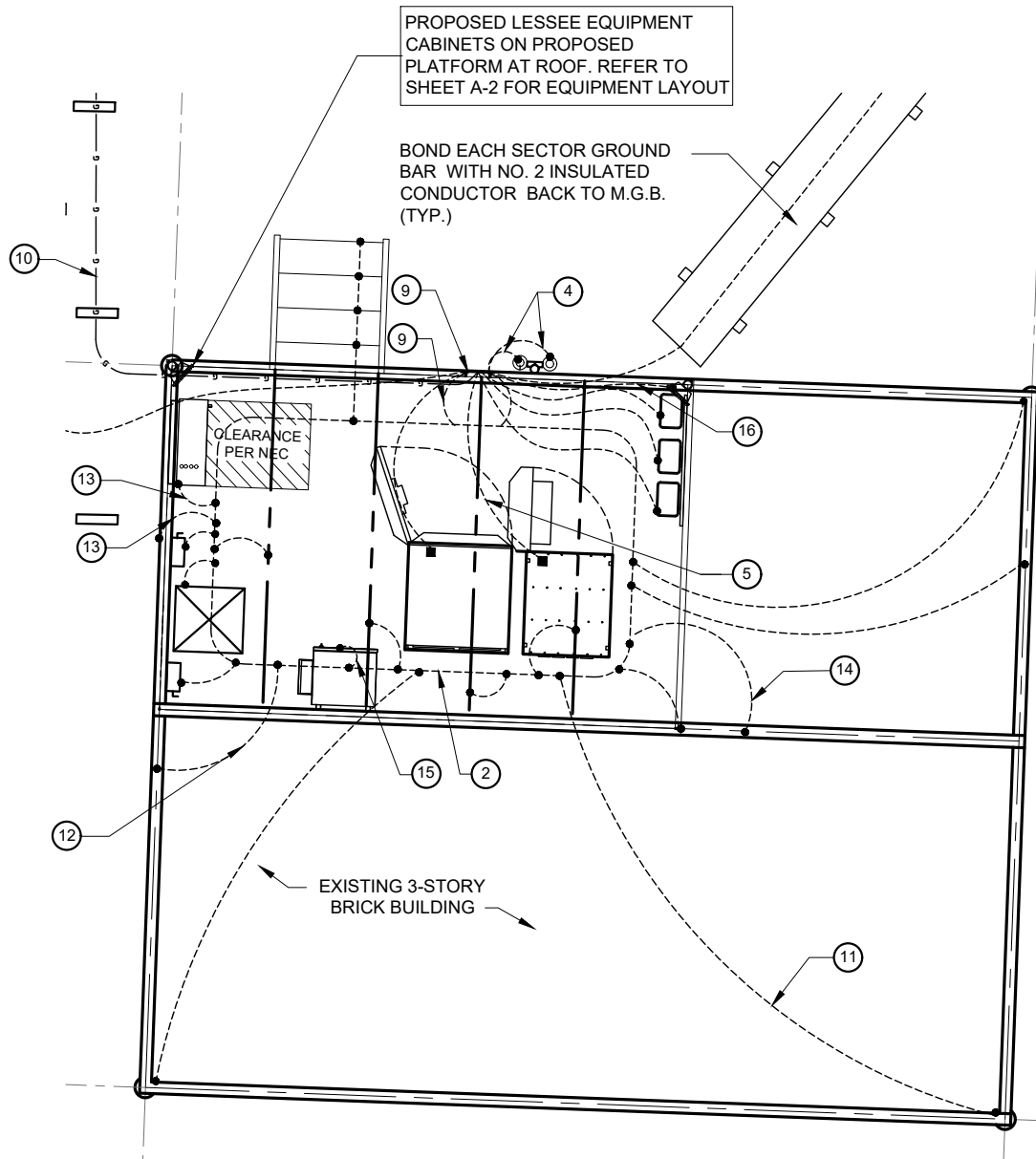
- ⑪ GROUND PROPOSED PLATFORM STRUCTURAL SUPPORT FRAME TO GROUND RING
- ⑫ GROUND PROPOSED METAL GRATING TO PROPOSED GROUND RING
- ⑬ GROUNDING CONNECTION TO PROPOSED LLC
- ⑭ GROUNDING CONNECTION TO PROPOSED SCREENING
- ⑮ GROUNDING CONNECTION TO PROPOSED FIBER BOX
- ⑯ GROUNDING CONNECTION TO LIGHT
- ⑰ ATTACH GROUND KITS TO ANTENNA CABLES AT MOUNT LOCATION AND BOND TO SECTOR GROUND BAR (TYP)

SYMBOLS LEGEND

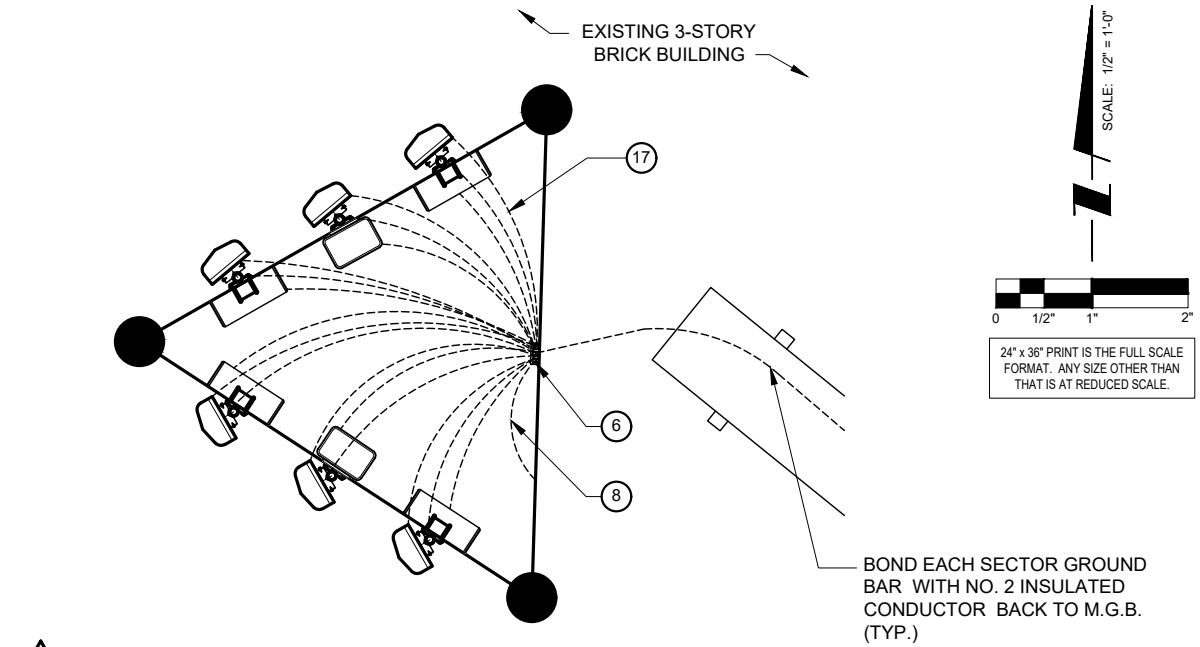
- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- ▭ GROUND BAR
- ▨ GROUND WIRE

NOTE:
BOND ALL RAYCAPS AND RRU's TO SECTOR GROUND BAR

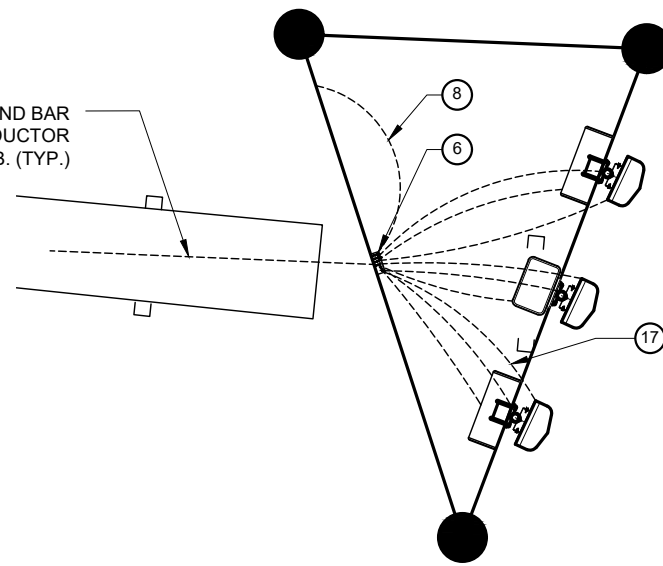
NOTE:
VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION



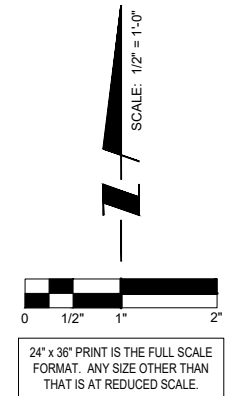
① PROPOSED EQUIPMENT PLATFORM GROUNDING
SCALE: 3/8" = 1'



② PROPOSED ANTENNA GROUNDING SECTOR BETA AND GAMMA
SCALE: 1/2" = 1'



③ PROPOSED ANTENNA GROUNDING SECTOR ALPHA
SCALE: 1/2" = 1'



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5	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	8/02/18	ESH	ESH	

LOC. # 455833
WASHINGTON & JACKSON
55 S MAIN STREET
NAPERVILLE, IL 60540

DRAWN BY:	LS
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SHEET TITLE
UTILITY
ROUTING PLAN

SHEET NUMBER
E-4

NOTE:
 VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION USING LANDLORD'S ROOFER.

PROPOSED EQUIPMENT CABINETS :

- ① COMMSCOPE RBA72-36 BATTERY CABINET (36"x39"x72") 2,500 LBS
- ② COMMSCOPE RBA72-30 EQUIPMENT CABINET (30.3"x 43.4"x73.2") 565-670 LBS

NEMA 3R 3-WAY SWITCH. MOUNTED TO INSIDE OF SCREEN WALL

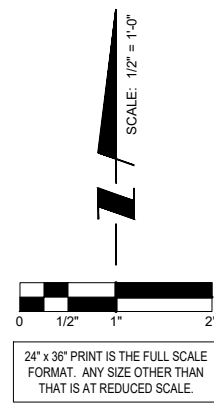
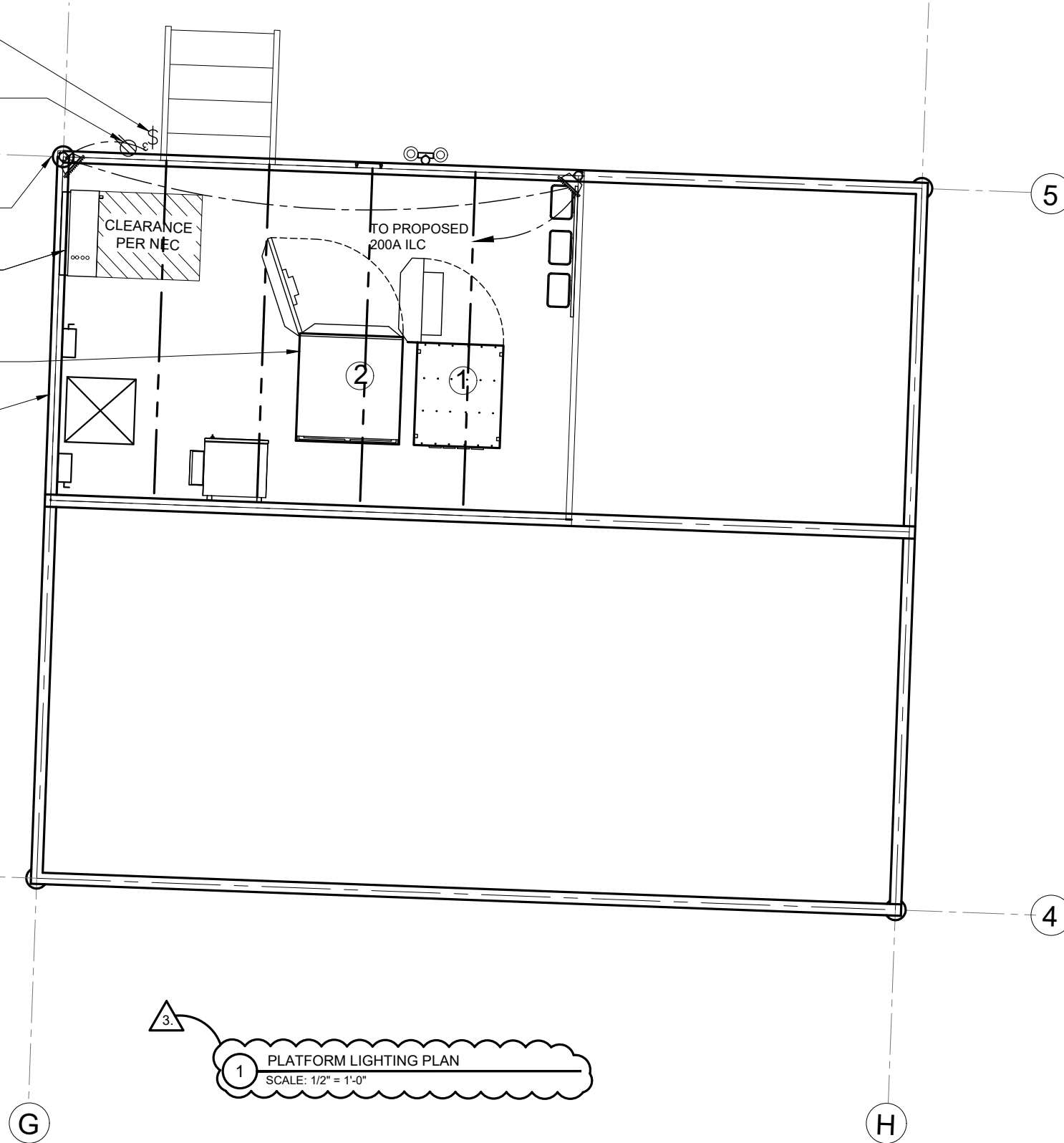
GFCI RECEPTACLE INSTALLED @ 18" ABOVE PLATFORM GRATING

ADJUSTABLE FLOODLIGHT NEMALUX MR3/5 OR APPROVED EQUAL. MOUNT TO EXTENDED PIPE AND AIM TOWARDS EQUIPMENT. (TYP.)

PROPOSED 200A ILC MOUNTED TO PLATFORM INSIDE OF SCREEN WALL

PROPOSED LESSEE EQUIPMENT CABINETS ON PROPOSED PLATFORM AT ROOF. REFER TO SHEET A-2 FOR EQUIPMENT LAYOUT

PROPOSED SCREENING (TYP.)



① PLATFORM LIGHTING PLAN
 SCALE: 1/2" = 1'-0"

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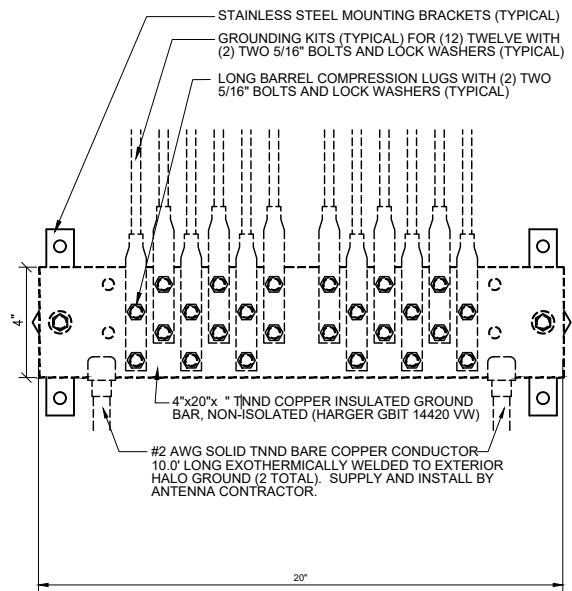
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LOC. # 455833
WASHINGTON & JACKSON
 55 S MAIN STREET
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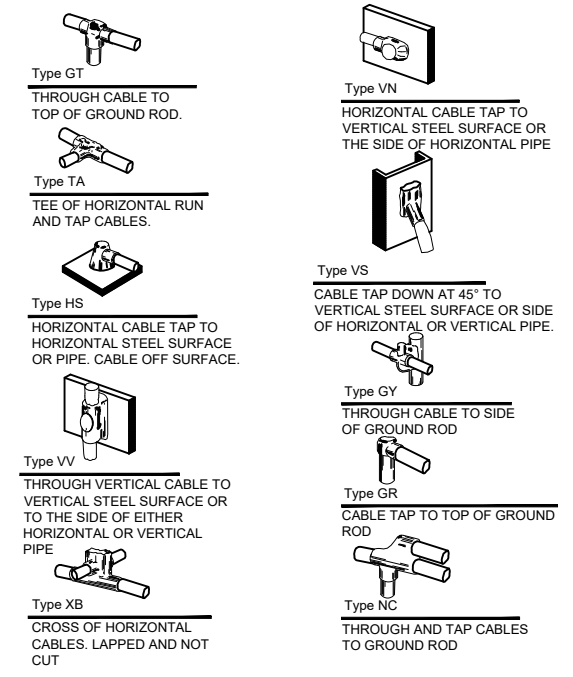
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SHEET TITLE
PLATFORM LIGHTING PLAN

SHEET NUMBER
E-5

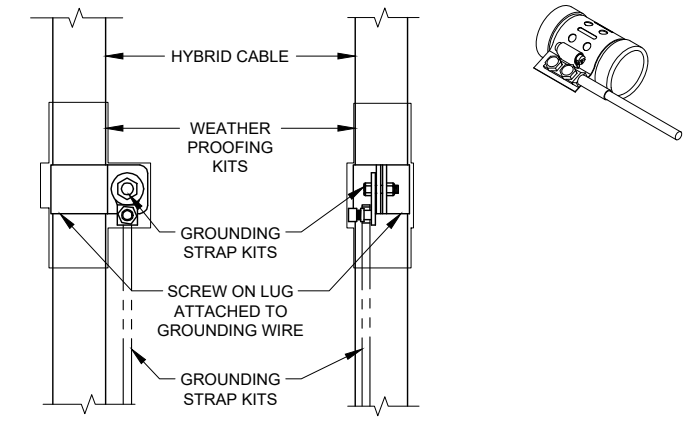


1 EXTERIOR GROUND BAR DETAIL
N.T.S.



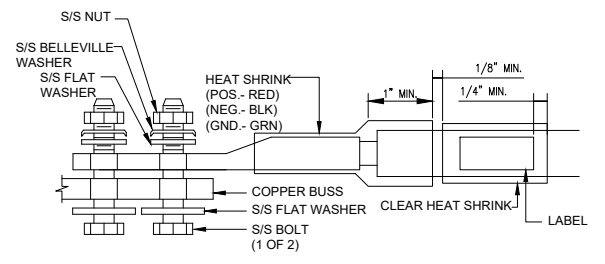
2 EXOTHERMIC WELD DETAILS
EXOTHERMIC AND HARGER ULTRAWELD APPROVED EQUAL

- NOTES:**
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - THIS DETAIL IS TYPICAL FOR EACH COAX CABLE WHERE IT IS SPECIFIED TO BE GROUNDED
 - CABLE TO BE GROUNDED AT ANTENNA LEVEL AND PRIOR TO ENTERING PLATFORM ENTRY PANEL.
 - CABLE ALSO TO BE GROUNDED TO GROUND BAR AT TOWER BASE IF APPLICABLE.
 - USE ONLY TIN PLATED GROUNDING KITS.



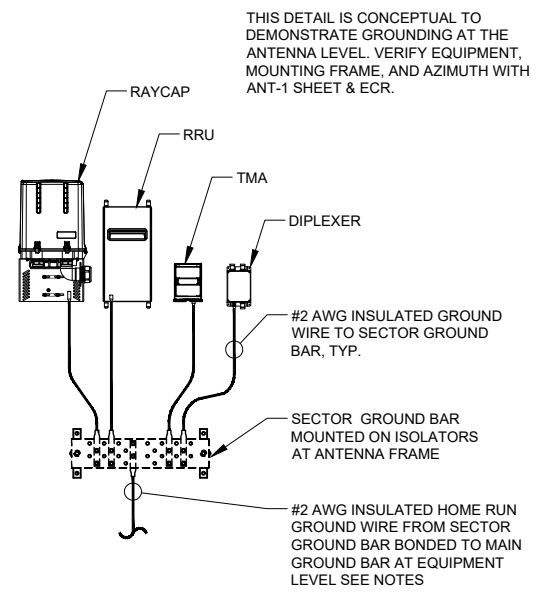
3 COAX/ HYBRID GROUND KIT DETAIL
N.T.S.

- NOTES:**
- GROUND CONNECTIONS MUST BE DOUBLE HOLE CONNECTION. SPECIAL EXCEPTION ONLY TO EQUIPMENT THAT WILL NOT ALLOW FOR A DOUBLE HOLE CONNECTION.

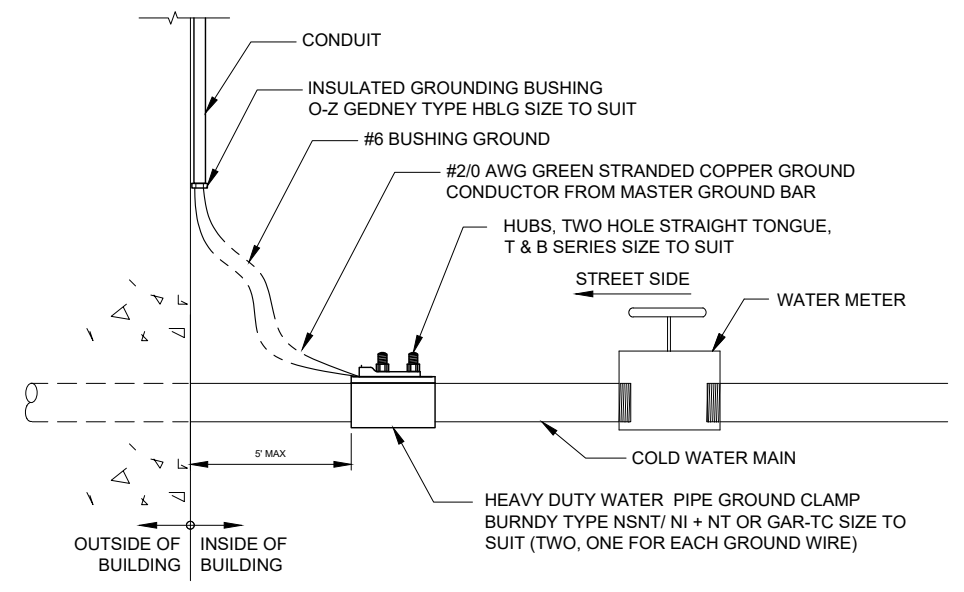


- NOTES:**
- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
 - FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.

4 LUG DETAIL
N.T.S.



5 TYPICAL APPURTENANCE GROUNDING AT ANTENNA LEVEL
N.T.S.



6 SYSTEM GROUND TO COLD WATER MAIN
SCALE: N.T.S.

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SHEET TITLE
ELECTRICAL AND GROUNDING DETAILS

SHEET NUMBER
E-6

VERIZON WIRELESS PANEL "A" SCHEDULE

MAIN: 200/2 VOLTAGE: 120/240 PHASE: 1 WIRE: 3

DESCRIPTION	BRKR.	WATTS	TO AUTOMATIC TRANSFER SWITCH		WATTS	BRKR.	DESCRIPTION
RECTIFIER 1	20/1	1000	1	2	1000	20/1	RECTIFIER 5
RECTIFIER 2	20/1	1000	3	4	1000	20/1	RECTIFIER 6
RECTIFIER 3	20/1	1000	5	6	1000	20/1	RECTIFIER 7
RECTIFIER 4	20/1	1000	7	8	1000	20/1	RECTIFIER 8
SPACE			9	10	3000	30/1	HVAC
SPACE			11	12			
SPACE			13	14			
SPACE			15	16			
SPACE			17	18			
SPACE			19	20			
SPACE			21	22			
SPACE			23	24			
SPACE			25	26			
SPACE			27	28			
SPACE			29	30			
EXTERIOR LIGHTS *	20/1	1800	31	32			
GFCI RECEPTACLE *	20/1	1800	33	34	1800	20/1	GFCI RECEPTACLE *
GEN BATTERY CHARGER *	20/1	1800	35	36	1850	20/1	GEN. BLOCK HEATER & CHARGER *

SURFACE MOUNTED NEMA 3R w/DOOR
22K AIC BREAKERS
(CONTRACTOR SHALL VERIFY AIC RATINGS W/LOCAL POWER CO.)

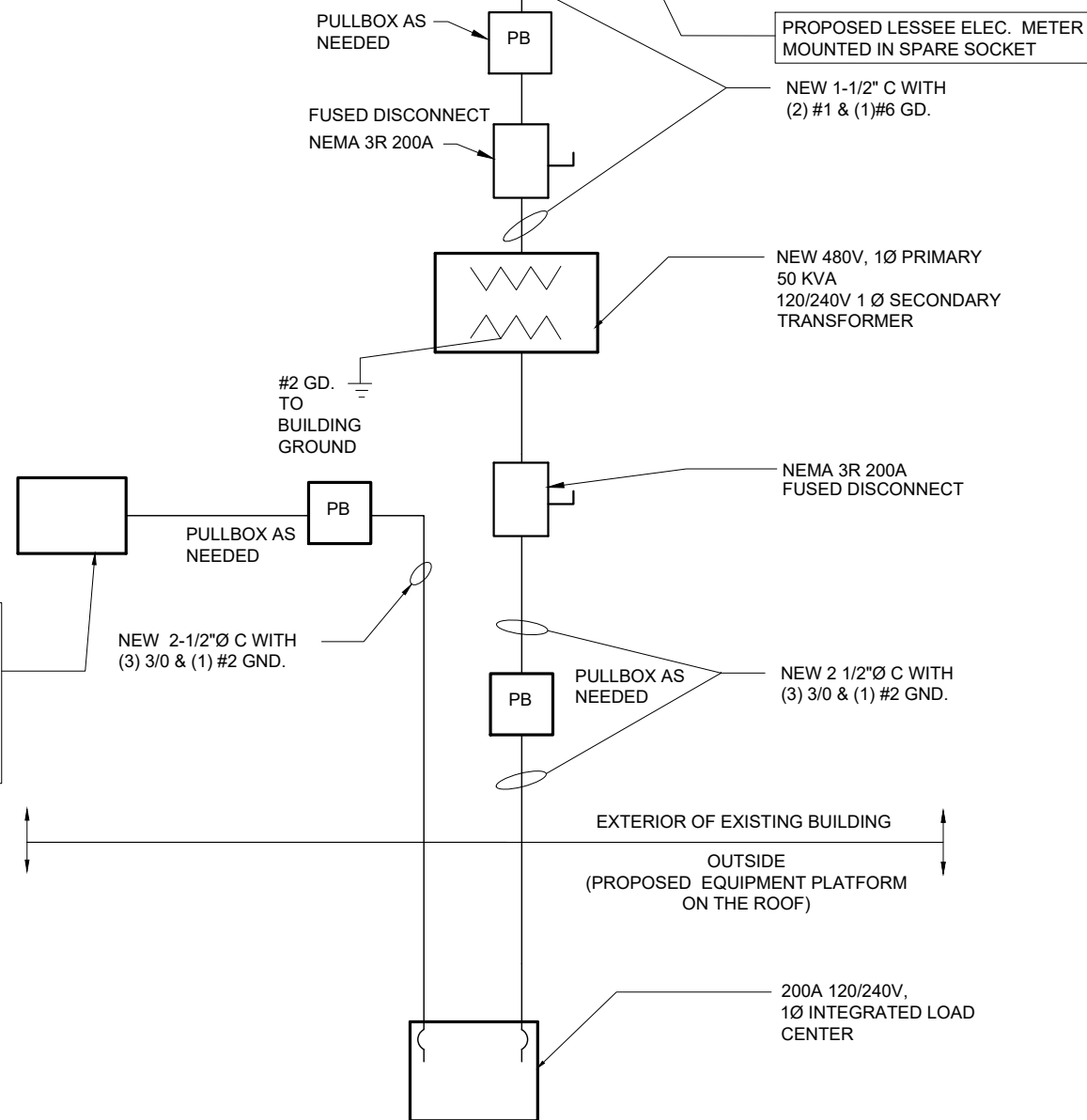
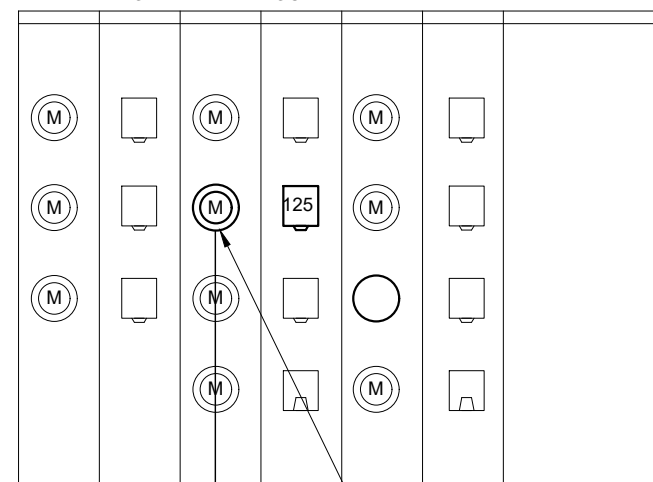
1 PANEL BOARD SCHEDULE
N.T.S

NOTE:
1. VERIZON WIRELESS EQUIPMENT ENGINEERING TO SUPPLY BREAKER FOR RADIO AND POWER CABINETS
2. GENERAL CONTRACTOR TO SUPPLY BREAKERS NOTED WITH "***"

PROPOSED LESSEE SQUARE D TAP BOX MOUNTED ON EXTERIOR BUILDING WALL AT GROUND LEVEL. SEE SHEET E-1 FOR LOCATION AND A-8, DET.#3 FOR TAP BOX DETAILS. TOP BOX TO BE LABELED "VERIZON WIRELESS"

EXHIBIT B

EXISTING ELECTRIC METER BANK (480V) WITH (2) OPEN METER SOCKETS.



2 SINGLE LINE DIAGRAM
N.T.S.

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SHEET TITLE
PANEL BOARD AND SINGLE LINE DIAGRAM

SHEET NUMBER
E-7

GENERAL

THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

DIVISION 1: GENERAL REQUIREMENTS

SECTION 01700 – PROJECT CLOSEOUT

PART 1 – GENERAL

- A. OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES; INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES AND SIMILAR RELEASES.
- B. SUBMIT RECORD DRAWINGS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
- C. COMPLETE FINAL CLEAN UP REQUIREMENTS, INCLUDING TOUCH-UP PAINTING. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES.

PART 2 – FINAL CLEANING

- 1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION OF COMPLETION.
 - A. CLEAN THE PROJECT SITE, YARD AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREAS, OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED, TO A SMOOTH EVEN-TEXTURED SURFACE.
 - B. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE.
 - C. REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
 - D. CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES.
 - E. REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, EQUIPMENT ENCLOSURE, MANHOLES, AND SIMILAR SPACES.
 - F. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
 - G. TOUCH-UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CAN NOT BE SATISFACTORILY REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING ELECTRICAL NAME PLATES.
 - H. LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
 - I. DUST-OFF ALL EQUIPMENT, INCLUDING BATTERY PACKS, WITHIN EQUIPMENT ENCLOSURE.
 - J. WASH AND WAX FLOOR WITHIN EQUIPMENT ENCLOSURE.
- 2. REMOVAL OF PROTECTION: REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.

PART 2 – PRODUCTS

- 1. MATERIALS:
 - A. STRUCTURAL STEEL MEMBERS: ASTM A572, GRADE 50
 - B. STRUCTURAL TUBING: ASTM A500, GRADE B
 - C. PIPE: ASTM A53, TYPE E OR S, GRADE B
 - D. BOLTS, NUTS, AND WASHERS: ASTM A325
 - E. ANCHOR BOLTS: ASTM A307
 - F. WELDING MATERIALS: AWS D1.1, TYPE REQUIRED FOR MATERIALS BEING WELDED
 - G. GROUT: NON-SHRINK TYPE, PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7000 psi AT 28 DAYS.
 - H. SHOP AND TOUCH-UP PRIMER: SSPC 15, TYPE 1, RED OXIDE
 - I. TOUCH-UP PRIMER FOR GALV. SURFACES: ZINC RICH TYPE

FABRICATION:

CONTINUOUSLY SEAL JOINTED MEMBERS BY CONTINUOUS WELDS. GRIND EXPOSED WELDS SMOOTH.

FINISH:

- A. PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC SP-1 TO SP-10 PROCEDURES.
- B. STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED.

PART 3 – EXECUTION

- 1. EXAMINATION AND PREPARATION: VERIFY THAT THE FIELD CONDITIONS ARE ACCEPTABLE.
- 2. ERECTION:
 - A. ALLOW FOR ERECTION LOADS. PROVIDE TEMPORARY BRACING TO MAINTAIN FRAMING IN ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRIDGING AND BRACING.
 - B. FIELD WELD COMPONENTS INDICATED ON SHOP DRAWINGS.
 - C. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
 - D. AFTER ERECTION, TOUCH-UP WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED OR GALVANIZED WITH TOUCH-UP PRIMERS AS SPECIFIED UNDER SECTION 05000, –METALS, PART 2 – PRODUCTS, H & I. SURFACES TO BE IN CONTACT WITH CONCRETE NOT INCLUDED.
- 3. FIELD QUALITY CONTROL: FIELD INSPECTION OF MEMBERS, CONNECTIONS, WELDS AND TORQUING.

DIVISION 16: ELECTRICAL

SECTION 16050 – BASIC ELECTRICAL MATERIALS AND METHODS

- 1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
- 2. ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
- 3. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
- 4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING 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 "J" WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "UL" LISTED.
- 5. ALL CONDUIT SHALL HAVE A PULL CORD.
- 6. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- 7. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- 8. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY UBC, NEC AND ALL APPLICABLE CODES.
- 9. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- 10. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVERPLATES.

SECTION 16400 – SERVICE AND DISTRIBUTION

- 1. WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG, COLOR CODED. ALL RECTIFIER DROPS SHALL BE STRANDED TO ACCEPT CRIMP CONNECTORS.
- 2. ALL CHEMICAL GROUND RODS SHALL BE "UL" APPROVED.
- 3. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
- 4. CONDUIT:
 - A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTING SHALL BE GLAND RING COMPRESSION TYPE.
 - C. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
 - D. ALL UNDERGROUND CONDUIT SHALL BE AS NOTED ON THE DRAWINGS. AT A MINIMUM DEPTH OF 42" BELOW GRADE. IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY DIGGERS HOTLINE AT 1-800-242-8511 OR OTHER SUCH NOTIFYING AGENCY THIRTY-SIX (36) HOURS PRIOR TO DIGGING.

CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.

ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FORTH INCH (1/4"). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.

UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

GROUNDING ELECTRODE SYSTEM

- A. PREPARATION
 - 1. SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
 - 2. GROUND BAR PREPARATION: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT APPLIED. NO FINGERPRINTS OR DISCOLORED COPPER WILL BE PERMITTED.
 - 3. SLEEVES: ALL GROUNDING CONDUCTORS SHALL RUN THROUGH PVC SLEEVES WHEREVER CONDUCTORS RUN THROUGH WALLS, FLOORS OR CEILINGS. IF CONDUCTORS MUST RUN THROUGH EMT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
- B. GROUND BARS
 - 1. ALL GROUND BARS SHALL BE ONE FORTH INCH (1/4") THICK TINNED COPPER PLATE AND OF SIZE INDICATED ON DRAWINGS.
 - 2. ALL CONNECTIONS TO THE GROUND BAR SHALL OBSERVE THE FOLLOWING SEQUENCE:
 - A. BOLT-HEAD
 - B. 2-HOLE LUG
 - C. TINNED COPPER BUSS BAR
 - D. STAR WASHER
 - E. NUT

EXTERNAL CONNECTIONS

- 1. ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTNING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "CADWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.
- 2. ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD) MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.

GROUND RODS

ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.

GROUND CONDUCTORS

ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.

LUGS

- 1. LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #548_ _BE OR EQUIVALENT

A.	535 MCM DLO	54880BE
B.	262 MCM DLO	54872BE
C.	#1/0 DLO	54862BE
D.	#4/0 THWN AND BARE	54866BE
E.	#2/0 THWN	54862BE
F.	#2 THHN	54207BE
G.	#6 DLO	54205BE
- 2. WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

GROUNDING CONDUCTOR SIZE	MINIMUM BENDING RADIUS TO INSIDE EDGE	
	6 INCHES	8 INCHES
NO. 6 AWG TO NO. 4 AWG	6 INCHES	8 INCHES
NO. 2 AWG TO NO. 1/0 AWG	8 INCHES	12 INCHES
NO. 2/0 AWG TO 4/0 MCM	12 INCHES	24 INCHES
250 MCM TO 750 MCM	24 INCHES	

SECTION 16745 – TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE)

- 1. GENERAL
 - A. ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.
 - B. CERTAIN MATERIALS AND PRODUCTS WILL BE SUPPLIED BY THE OWNER (REFER TO GENERAL CONDITIONS FOR THE LIST OF OWNER FURNISHED EQUIPMENT, MATERIALS AND SUPPLIES FOR THESE ITEMS). THE CONTRACTOR IS RESPONSIBLE FOR PICKUP AND DELIVERY OF ALL SUCH MATERIALS
 - C. ALL OTHER MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR.

MATERIALS:

- A. COAXIAL CABLE:
 - 1. INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE FEET (3') IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
 - 2. ALL COAX RUN LENGTHS GREATER THAN 175 FEET SHALL BE 1-5/8", ALL COAX. RUN LENGTH BETWEEN 101 FEET AND 174 FEET SHALL BE 1-1/4", AND IN LENGTH LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8".
- 3. ANTENNA AND COAXIAL CABLE GROUNDING
 - A. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)
- 4. COAXIAL CABLE IDENTIFICATION
 - A. TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - 1. FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
 - 2. SECOND LOCATION IS INSIDE THE EQUIPMENT SHELTER NEAR THE WAVEGUIDE ENTRY PORT.
 - B. USE ANDREW CABLE TIES (PT.# 27290) TO SECURE IDENTIFICATION TAGS.
- 5. TESTING
 - LESSEE SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE ONE CLIMBER / QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE LESSEE WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.

DIVISION 5: METALS

SECTION 05000 – METALS

PART 1 – GENERAL

- 1. SECTION INCLUDES: STRUCTURAL STEEL FRAMING MEMBERS, BASE PLATES, PLATES, BARS AND GROUTING UNDER BASE PLATES.
- 2. SUBMITTALS: SHOP DRAWINGS: INDICATE SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, OPENINGS, CONNECTIONS, CAMBERS, LOADS, AND WELDED SECTIONS.
- 3. QUALITY ASSURANCE
 - A. FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 - B. PERFORM DESIGN UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE.

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS

TERRA
COMMERCIAL DESIGN CENTER, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

NO.	DESCRIPTION	DATE	BY	LS	LS	LS	ESH	ESH
			ISSUED FOR REVIEW	2/26/16	3/6/16	4/1/16	7/19/16	7/30/16
1	UPDATE PER LATEST STRUCTURAL DESIGN							
2	FINALS PENDING FIBER							
3	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN							
4	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS							

LOC. # 455833

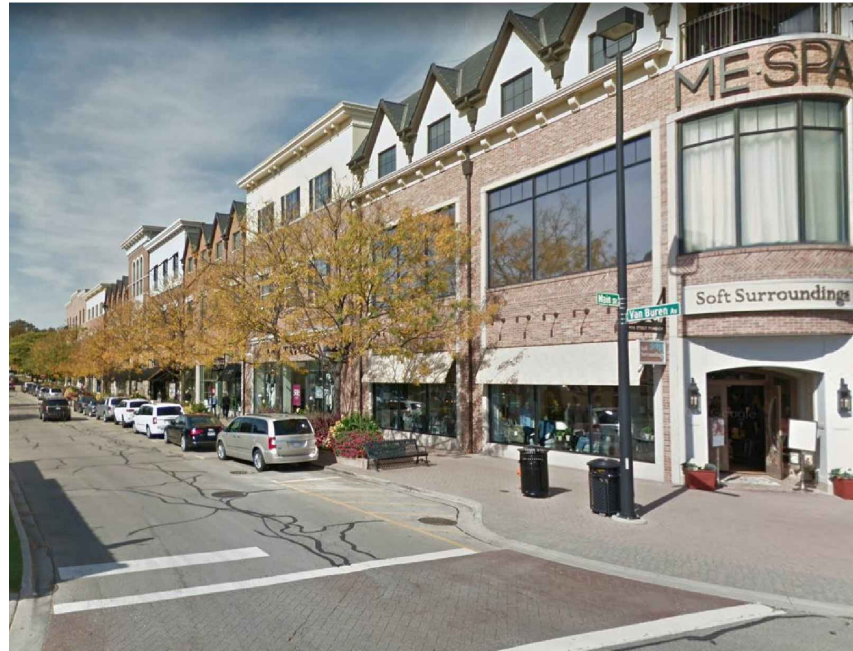
WASHINGTON & JACKSON

**55 S MAIN STREET
NAPERVILLE, IL 60540**

DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
SPECIFICATIONS

SHEET NUMBER
SP-1



1 ELEVATION OF EXISTING BUILDING
SCALE: N.T.S.



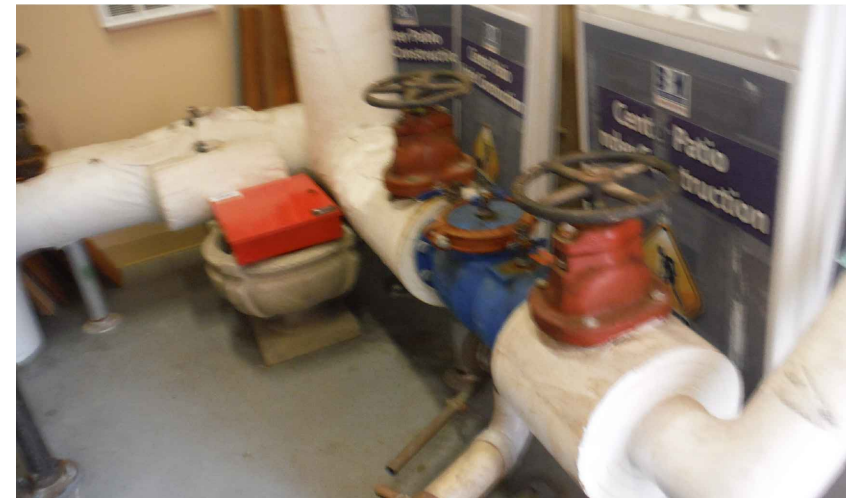
2 ELEVATION OF EXISTING ROOF
SCALE: N.T.S.



3 OVERVIEW OF EXISTING PARAPET (TYP.)
SCALE: N.T.S.



4 VIEW OF EXISTING METER BANK
SCALE: N.T.S.



5 VIEW OF EXISTING MAIN WATER PUMP
SCALE: N.T.S.

EXHIBIT B

**CHICAGO
SMSA**
limited partnership
d/b/a VERIZON WIRELESS

TERRA
CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	2/26/16	LS
1	UPDATE PER LATEST STRUCTURAL DESIGN	3/6/18	LS
2	FINALS PENDING FIBER	4/7/18	LS
3	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/19/18	ESH
4	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	7/30/18	ESH

LOC. # 455833
WASHINGTON
& JACKSON

55 S MAIN STREET
NAPERVILLE, IL 60540

DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
EXISTING SITE PHOTOS

SHEET NUMBER
P-1

SURVEYOR'S NOTE

THE PARENT PARCEL BOUNDARY OF THIS DRAWING IS ILLUSTRATED FROM RECORD INFORMATION AND IS APPROXIMATE.

THE TOPOGRAPHICAL SURVEY FOR THIS MAP WAS PERFORMED ON JULY 27, 2017.

NOT TO BE USED AS CONSTRUCTION DRAWINGS.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM. CONTOURS ARE ILLUSTRATED AT 1.0' INTERVALS.

BM#1) ELEV. 679.52

DESCRIPTION: REBAR WEST SIDE OF WEBSTER STREET NORTH SIDE OF VAN BUREN AVENUE.

BASIS OF BEARINGS

LATITUDE AND LONGITUDE OF SITE REFERENCE POINT ARE BASED ON THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD83 (CORS 96)

BEARINGS ARE BASED ON ILLINOIS STATE PLANE, IL EAST 1201 TO ORIENT DRAWING TO TRUE NORTH, ROTATE CLOCKWISE 00°07'17.43".

EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS

THE TITLE COMMITMENT ISSUED BY NEAR NORTH NATIONAL TITLE LLC, ISSUING AGENT FOR CHICAGO TITLE INSURANCE COMPANY, AS FILE NO. IL1705617, DATED JULY 17, 2017 LISTS THE FOLLOWING EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS, THAT ARE MATTERS OF SURVEY, AFFECTING THE PARENT PARCEL UNDER "SCHEDULE B":

2. The Land lies within the boundaries of a Special Service Area as disclosed by Ordinance recorded as document R2015-118379, and is subject to Additional taxes under the terms of said ordinance and subsequent related ordinances. AFFECTS SUBJECT PROPERTY. BLANKET IN NATURE (NOT A SURVEY RELATED ITEM).

4. Terms, provisions and conditions contained in Ordinance No. 02-173, approving the final planned unit development plans and the subdivision plat for Main Street Promenade, a copy of which was recorded February 26, 2004 as document R2004-052477 and in Ordinance no. 02-256, approving a revised final plat of subdivision, a copy said ordinance and final plat of subdivision of which was recorded February 26, 2004 as document R2004-052476. AFFECTS SUBJECT PROPERTY. BLANKET IN NATURE.

5. Public sight distance and sidewalk easement as shown and set forth on the plat of Main Street Promenade, recorded February 26, 2004 as document number R2004-052476, as follows: Affecting the Southeast and Southwest corners of the Land. AFFECTS SUBJECT PROPERTY AS SHOWN.

6. Stormwater management easement as shown and set forth in the covenant provisions on the plat of Main Street Promenade, recorded February 26, 2004 as document number R2004-052476, as follows: Over the North 15 feet of the East 120 feet, as measured along the most Northernly line and a 23 feet wide strip of Land running North and South through a central portion of lot 1. (For further particulars, see record.) AFFECTS SUBJECT PROPERTY AS SHOWN.

7. "Promenade" area of Access Easement as shown and set forth on the plat of Main Street Promenade, recorded February 26, 2004 as document number R2004-052476, as follows: Affects an 18 foot strip running North and South through a central portion of the Land. (For further particulars, see record.) AFFECTS SUBJECT PROPERTY AS SHOWN.

8. Public utility and drainage easement as shown and set forth on the plat of Main Street Promenade, recorded February 26, 2004 as document number R2004-052476, as follows: 5 feet along the North line and the South 17 feet of the North 26.5 feet and various other areas on the Land. AFFECTS SUBJECT PROPERTY AS SHOWN.

9. Access easement as shown and set forth on the plat of Main Street Promenade, recorded February 26, 2004 as document number R2004-052476, as follows: The South 18 feet of the North 23 feet (approximately) of the Land and an 18 feet wide strip of Land running North and South through a central portion of the Land. AFFECTS SUBJECT PROPERTY AS SHOWN.

10. "Alley" area of access easement runs East/West, as shown and set forth on the plat of Main Street Promenade, recorded February 26, 2004 as document number R2004-052476, as follows: The South 18 feet of the North 23 feet (approximately) of the Land. AFFECTS SUBJECT PROPERTY AS SHOWN.

11. Terms, conditions, provisions and easement contained in easement and covenant for stormwater management agreement recorded January 30, 2007 as document R2007-18497. AFFECTS SUBJECT PROPERTY. BLANKET IN NATURE.

12. Encroachment of the concrete and gutter located mainly on the Land onto the property East and adjoining by approximately 0.08 feet to 0.16 feet and of the brick wall located mainly on the Land and onto the property East and adjoining by approximately 0.08 feet, as shown on plat of survey prepared by Roake and Associates, Inc., dated October 24, 2016, job no. 842.001 (Main Street Promenade). MAY AFFECT SUBJECT PROPERTY. DOCUMENT NOT PROVIDED.

13. Encroachment of the awnings located mainly on the Land and onto the public right of way South and adjoining by approximately 1.88 feet to 17.44 feet, of the 1st floor overhangs onto the public right of way East and adjoining by approximately 4.90 feet to 4.94 feet and onto the public right of way West and adjoining by approximately 4.60 feet to 4.65 feet, and of the 3rd floor balconies onto the public right of way West and adjoining by approximately 4.86 feet to 4.92 feet, as shown on plat of survey prepared by Roake and Associates, Inc., dated October 24, 2016, job no. 842.001. MAY AFFECT SUBJECT PROPERTY. DOCUMENT NOT PROVIDED.

14. Encroachment of the building located on the Land onto the access easement and the stormwater management easement referenced elsewhere in schedule b as shown on plat of survey prepared by Roake and Associates, Inc., dated October 24, 2016, job no. 842.001. MAY AFFECT SUBJECT PROPERTY. DOCUMENT NOT PROVIDED.

15. Encroachment of the building located on the Land onto the public sight and sidewalk distance easement shown herein at exception reference 4 as shown on plat of survey prepared by Roake and Associates, Inc. dated October 24, 2016, job no. 842.001. MAY AFFECT SUBJECT PROPERTY. DOCUMENT NOT PROVIDED.

16. Encroachment of the building located mainly on the Land onto the public right of way South and adjoining by approximately 0.02 feet to 0.09 feet, as shown on plat of survey number 842.001 prepared by Roake and Associates, Inc. dated October 24, 2016. MAY AFFECT SUBJECT PROPERTY. DOCUMENT NOT PROVIDED.

17. Encroachment of the pillars located mainly on the Land onto the property North and adjoining by approximately 0.02 feet to 0.13 feet, as shown on plat of survey number 842.001 prepared by Roake and Associates, Inc. dated October 24, 2016. MAY AFFECT SUBJECT PROPERTY. DOCUMENT NOT PROVIDED.

ZONING DATA

ACCORDING TO THE SITE CANDIDATE INFORMATION PACKAGE THIS SITE IS ZONED: C-COMMERCIAL BUILDING

SETBACKS:

FRONT: N/A

REAR: N/A

SIDE: N/A

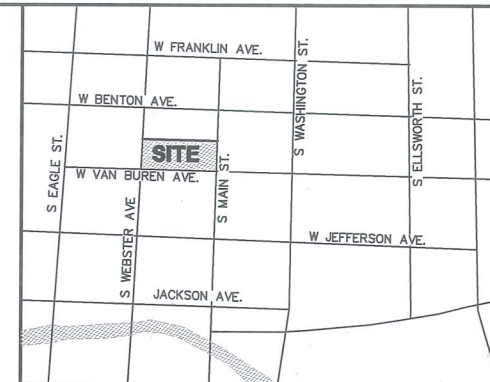
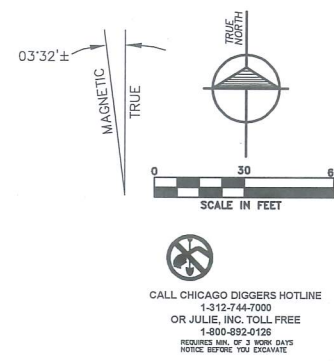
PROPRIETOR

LAURA PACINO
55 S. MAIN STREET
NAPERVILLE, IL
60540

FLOOD PLAIN INFORMATION

WE HAVE CONSULTED THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE MAP AS PREPARED FOR DUPAGE, COUNTY, ILLINOIS, COMMUNITY PANEL NUMBER 17043C0706H DATED DECEMBER 16, 2004, AND FIND THAT THE PROJECT SITE IS ZONED X (UNSHADED)

**WASHINGTON & JACKSON
LOC. #45583**



CALL CHICAGO DIGGERS HOTLINE
1-312-744-7000
OR JULIE, INC. TOLL FREE
1-800-892-0128
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU DIG AHEAD

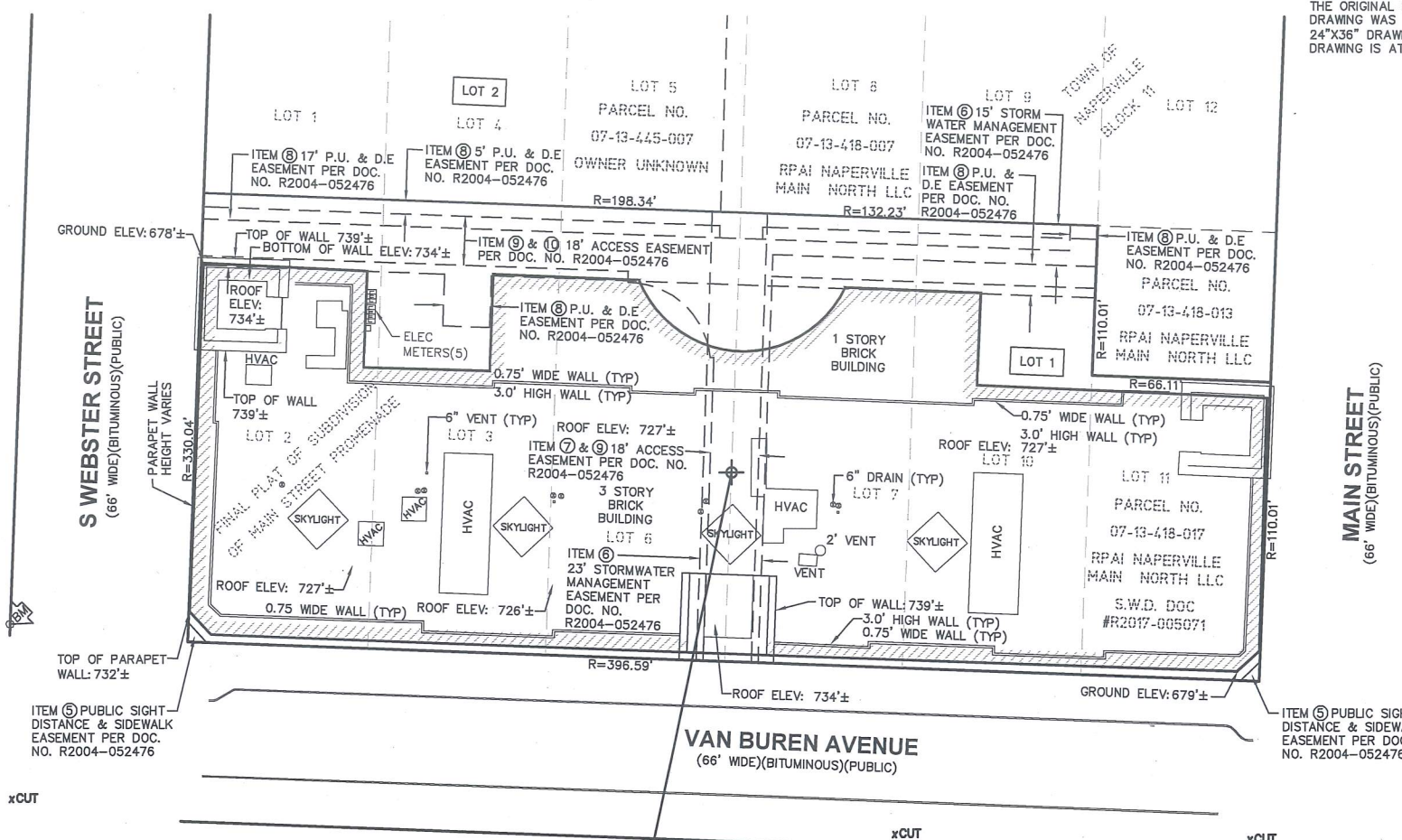
NOTE:
THE ORIGINAL SCALE (1"=30') OF THIS DRAWING WAS PREPARED AS A 24"x36" DRAWING ANY OTHER SIZE DRAWING IS AT A REDUCED SCALE.

VICINITY MAP
N.T.S.

LEGEND

- ▲ - TRAVERSE POINT
- ▲ - WELL
- - HIGHWAY
- ⊙ - MONUMENT
- ⊙ - MONUMENT BOX
- - RIGHT OF WAY MARKER
- - SET WOODSTAKE
- - CUT - XCUT
- PK - PK NAIL
- - FOUND IRON STAKE
- - SET IRON STAKE
- - SIGN
- RR - RR SIGN
- - GUY POLE
- - UTILITY POLE
- ★ - LIGHT POLE
- - ORNAMENTAL LIGHT POLE
- - POST
- † - U.G. UTILITY MARKER
- ⊙ - GROUND ROD
- SB#XX - SOIL BORING
- ☐ - MAILBOX
- ☐ - SATELLITE DISH
- ☐ - HAND HOLE
- AC - AC UNIT
- - U.G. UTILITY MARKER
- ⊙ - FIRE HYDRANT
- ⊙ - PIV - POST INDICATOR VALVE
- - WATER VALVE
- ⊙ - UST FILL PORT
- ⊙ - GAS VALVE
- ⊙ - UST FILL PORT
- ⊙ - GAS PUMP
- ⊙ - GAS METER
- ⊙ - WATER METER
- ⊙ - TELEPHONE RISER
- ⊙ - ELECTRIC METER
- ⊙ - ELECTRIC TRANSFORMER
- ⊙ - CABLE TV RISER
- ⊙ - CATCH BASIN
- ⊙ - ROUND CATCH BASIN
- ⊙ - UTILITY MANHOLE
- ⊙ - LIGHT MANHOLE
- ⊙ - SANITARY MANHOLE
- ⊙ - ELECTRIC MANHOLE
- ⊙ - TELEPHONE MANHOLE
- ⊙ - WATER MANHOLE
- ⊙ - HANDICAP PARKING SPACE
- - SHRUB
- - TREE
- - PINE TREE
- - EXISTING CONTOURS
- - TELEPHONE UTILITY LINE
- - ELECTRIC UTILITY LINE
- - WATER UTILITY LINE
- - GAS UTILITY LINE
- - STEAM UTILITY LINE
- - STORM UTILITY LINE
- - SANITARY UTILITY LINE
- - FIBER OPTIC UTILITY LINE
- - OVERHEAD UTILITY LINE
- - FENCE LINE
- - GUARD RAIL

All utilities as shown are approximate locations derived from actual measurements and available records. They should not be interpreted to be in exact location nor should it be assumed that they are the only utilities in the area.



LATITUDE: 41° 46' 27.71" N
LONGITUDE: 88° 09' 01.14" W
GROUND ELEV. ±679'
ROOF ELEV. ±727'
TOP OF PARAPET WALL 739'±

LEGAL DESCRIPTION

PARENT PARCEL
LOT 1 IN MAIN STREET PROMENADE, BEING A SUBDIVISION OF THE SOUTH 1/2 OF SECTION 13, TOWNSHIP 38 NORTH, RANGE 9, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED FEBRUARY 26, 2004 AS DOCUMENT R2004-052476, IN DUPAGE COUNTY, ILLINOIS.

This map was made from the above legal description which was given to us as a complete description of the property. Both map and description should be compared with the Abstract of Title or Title Policy for any exceptions, easements or differences in description.



I, Randy J. Kolehouse, do hereby certify that the drawing shown hereon is a correct representation of a survey performed at and under my direction.

All dimensions shown are in feet and decimal parts thereof. Given under my hand and seal this 5th day of April, 2018.

Randy J. Kolehouse
Randy J. Kolehouse
Illinois Professional Land Surveyor No. 2986
Expires November 30, 2018

Note: This certification only applies to improvements within the lease site and easements as shown hereon.

ILLINOIS REGISTERED DESIGN FIRM
LICENSE NUMBER 184.007034
LICENSE EXPIRES: APRIL 30, 2019

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS

**WASHINGTON & JACKSON
LOC. #45583**

Survey Prepared for:
TERRA
CONSULTING GROUP, LTD.
600 Duane Highway
Park Ridge, IL 60068
Ph: 847/688-8400
Fax: 847/688-8401
Project Manager: Tom Zimmermann

REVISIONS		
NO.	DESCRIPTION	DATE
1	TITLEWORK ADDED	04/04/18

williams&works
engineers | surveyors | planners
818.224.1500 phone
549 Ottawa Ave NW
Grand Rapids, MI 49503

NW NE
SW SE
13-38-9

DATE: 07/27/17 DWG. BY: A.C.G.
SCALE: 1"=30' SURVEYED: D.S.
UPDATE: EC040418 CHKD BY: R.J.K.
PROJECT NO.: 211005.690

SITE NAME

WASHINGTON & JACKSON

LOCATION NUMBER

LOC. #45583

SITE ADDRESS

**55 S MAIN STREET
NAPERVILLE, IL
60540**

SHEET TITLE

PS-1

verizon
Radio Frequency Exposure
FCC Compliance Assessment

Pre-Activation Post-Activation

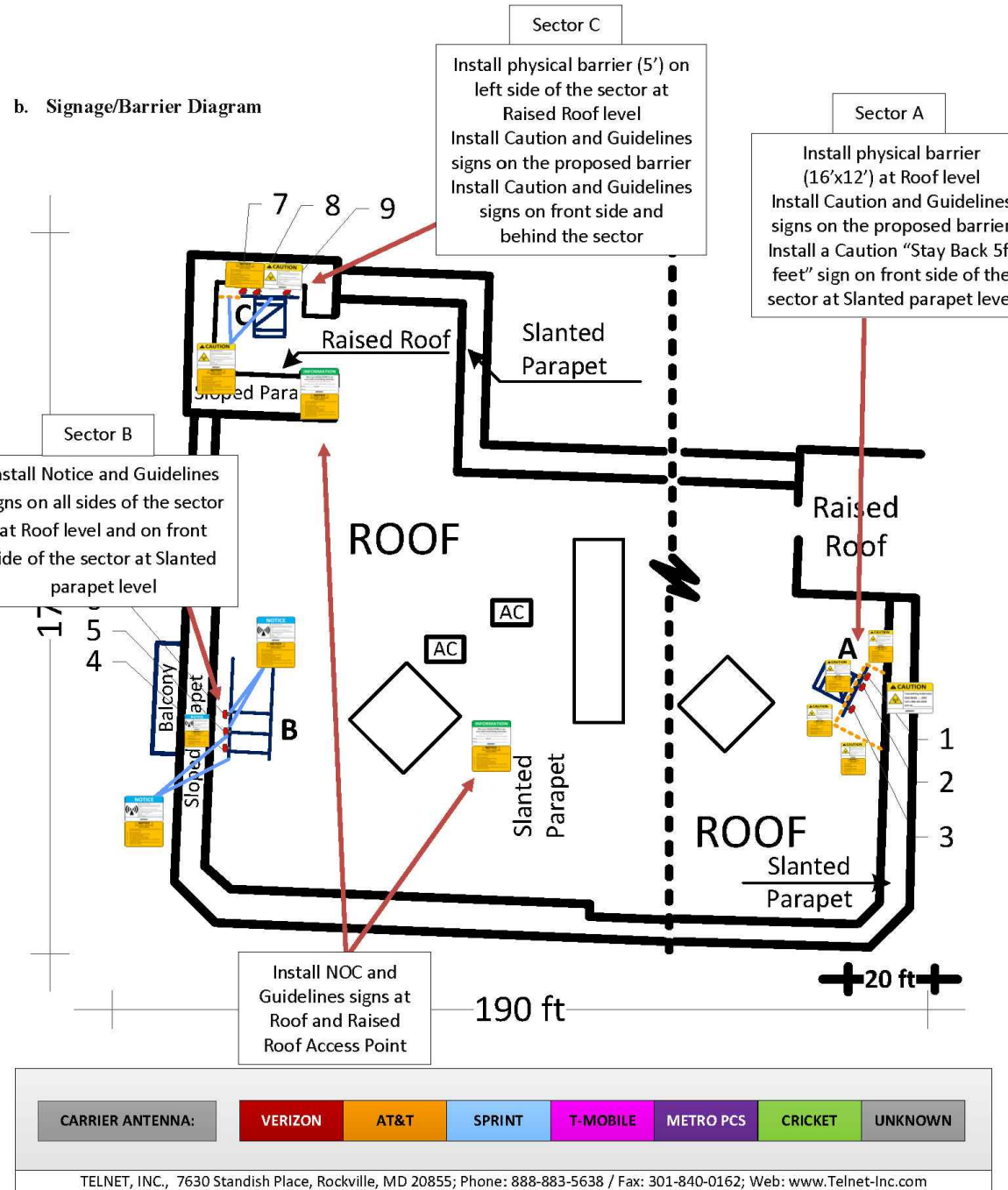
SITE-SPECIFIC INFORMATION			
Site Name	WASHINGTON & JACKSON	Multi-Licensee Facility	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Street Address	55 S MAIN ST.	Is Verizon a Significant Contributor to Co-Locator Areas Requiring Mitigation?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
City, State, Zip	NAPERVILLE, IL 60540	Verizon's Max % MPE (Measured - Occupational)	N/A
Verizon's Max % MPE (Predictive - Occupational)		Verizon's Max % MPE (Predictive - Occupational)	262.2 %
Structure Type	ROOFTOP	Assessment Date	N/A
Broadcast (AM/FM/TV) Co-Locators	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Assessment Purpose	MODIFICATION
Total Access Points	2	Total Report Revisions	1
Original Report Date	03/14/2018	Report Revision Date	N/A
Compliance Status	<input type="checkbox"/> COMPLIANT AS DESIGNED <input type="checkbox"/> COMPLIANT PER RF SAFETY PLAN SUBMISSION <input checked="" type="checkbox"/> MITIGATION IS REQUIRED		

VERIZON'S WORST-CASE RF EMISSIONS IN ACCESSIBLE AREAS AT THIS FACILITY	
<input type="checkbox"/>	BELOW the General Population MPE limit
<input type="checkbox"/>	ABOVE the General Population MPE limit and BELOW the Occupational MPE limit
<input checked="" type="checkbox"/>	ABOVE the Occupational MPE limit and BELOW 10x the Occupational MPE limit
<input type="checkbox"/>	ABOVE 10x the Occupational MPE limit

Final Compliant Configuration						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Access Point(s)	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> dimensions
Alpha	<input checked="" type="checkbox"/> [4]	<input checked="" type="checkbox"/> [1]	<input checked="" type="checkbox"/> [5]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> 16'x12'
Beta	<input checked="" type="checkbox"/> [5]	<input checked="" type="checkbox"/> [5]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Gamma	<input checked="" type="checkbox"/> [3]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [3]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> 5'

NOTE: The table above represents EVERY compliance item that MUST be implemented at this location; also in Sec. 4 (B)

Additional Compliance Requirements(s):			
N/A			
Consultant Legal Name	Telnet Inc.	Phone/Fax	301-840-7110
Address	7630 Standish Place, Rockville, MD 20855		



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CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS

TERRA
 CONSULTING CORPORATION, LTD.
 600 BUSSE HIGHWAY
 PARK RIDGE, IL 60068
 PH: 847-698-6400
 FAX: 847-698-6401

NO.	DESCRIPTION	DATE	BY	DATE	BY
			LS		LS
1	ISSUED FOR REVIEW	2/26/18	LS	3/6/18	LS
2	UPDATE PER LATEST STRUCTURAL DESIGN	4/1/18	LS	7/19/18	ESH
3	FINAL PENDING FIBER	7/19/18	ESH	7/30/18	ESH
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	7/30/18	ESH		
	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS				

LOC. # 455833
 WASHINGTON & JACKSON
 55 S MAIN STREET
 NAPERVILLE, IL 60540

DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
 RF SITE SAFE
 COMPLIANCE REPORT
 (FOR REFERENCE ONLY)

SHEET NUMBER
RF-1

Final Compliant Configuration						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Access Point(s)	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> dimensions
Alpha	<input checked="" type="checkbox"/> [4]	<input checked="" type="checkbox"/> [1]	<input checked="" type="checkbox"/> [5]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> 16'x12'
Beta	<input checked="" type="checkbox"/> [5]	<input checked="" type="checkbox"/> [5]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Gamma	<input checked="" type="checkbox"/> [3]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [3]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> 5'

NOTE: The table above represents EVERY compliance item that MUST be implemented at this location.

c. Signage/Barrier Installation Detail

Mitigation Actions Required/Taken						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Access Point(s)	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> dimensions
Alpha	<input checked="" type="checkbox"/> [4]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input checked="" type="checkbox"/> [5]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> 16'x12'
Beta	<input checked="" type="checkbox"/> [5]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [5]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Gamma	<input checked="" type="checkbox"/> [3]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [3]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> 5'
	ADD	REM	ADD	REM	ADD	REM
					ADD	REM
						ADD ONLY

NOTE: The table represents either the signage/barriers installed / removed OR items required by the market (if mitigation is not installed by consultant/vendor).

SPECIAL MITIGATION INSTRUCTIONS	
Items to be Installed	<p>Access Point: Install NOC and Guidelines signs at Roof and Raised Roof Access Point</p> <p>Sector A: Install physical barrier (16'x12') at Roof level Install Caution and Guidelines signs on the proposed barrier Install a Caution "Stay Back 5ft feet" sign on front side of the sector at Slanted parapet level</p> <p>Sector B: Install Notice and Guidelines signs on all sides of the sector at Roof level and on front side of the sector at Slanted parapet level</p> <p>Sector C: Install physical barrier (5') on left side of the sector at Raised Roof level Install Caution and Guidelines signs on the proposed barrier Install Caution and Guidelines signs on front side and behind the sector</p>
Items to be Removed	N/A
Items to be Repaired/Replaced	N/A

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c. RF Signage

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. These areas must be demarcated by conspicuously posted signage that identifies the potential exposure. Signage MUST be viewable regardless of the viewer's position.

GUIDELINES	NOTICE	CAUTION	WARNING
This sign will inform anyone of the basic precautions to follow when entering an area with transmitting radiofrequency equipment.	This sign indicates that RF emissions may exceed the FCC General Population MPE limit.	This sign indicates that RF emissions may exceed the FCC Occupational MPE limit.	This sign indicates that RF emissions may exceed at least 10x the FCC Occupational MPE limit.
<p align="center">NOC INFORMATION</p> <p>Information signs are used as a means to provide contact information for any questions or concerns. They will include specific cell site identification information and the Verizon Wireless Network Operations Center phone number.</p>			

d. Physical Barriers

Physical barriers are control measures that require awareness and participation of personnel. Physical barriers are employed as an additional administration control to complement RF signage and physically demarcate an area in which RF exposure levels may exceed the FCC General Population limit. **Example:** chain-connected stanchions

e. Indicative Markers

Indicative markers are visible control measures that require awareness and participation of personnel, as they cannot physically prevent someone from entering an area of potential concern. Indicative markers are employed as an additional administration control to complement RF signage and visually demarcate an area in which RF exposure levels may exceed the FCC General Population limit. **Example:** paint stripes

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NO.	DESCRIPTION	BY	DATE	
			LS	ESH
1	ISSUED FOR REVIEW	LS	2/26/16	
2	UPDATE PER LATEST STRUCTURAL DESIGN	LS	3/6/16	
3	FINAL PENDING FIBER	LS	4/7/16	
4	UPDATED ANTENNA LOCATIONS AND ADD EQUIPMENT SCREEN	ESH	7/19/16	
	UPDATED PER SITETRACKER AND LANDOWNER COMMENTS	ESH	7/30/16	

LOC. # 455833
WASHINGTON & JACKSON

55 S MAIN STREET
NAPERVILLE, IL 60540

DRAWN BY:	LS
CHECKED BY:	TAZ
DATE:	8/18/17
PROJECT #:	33-2584

SHEET TITLE
RF SITE SAFE COMPLIANCE REPORT (FOR REFERENCE ONLY)

SHEET NUMBER
RF-2