



PROJECT: 2.5 EQUIPMENT DEPLOYMENT  
 SITE NAME: WESTON MANOR  
 SITE CASCADE: BS13XC671  
 MARKET: BOSTON  
 SITE ADDRESS: 15 WESTON AVENUE  
 SOMERVILLE, MA 02145  
 SITE TYPE: ROOFTOP

**Sprint**  
 VISION  
 1 INTERNATIONAL BLVD, SUITE 800  
 MAHWAH, NJ 07495  
 (201) 684-4000

**J LEE ASSOCIATES, LLC**  
 753 FOREST STREET  
 MARLBOROUGH, MA 01752-3047  
 PHONE: (800) 825-6460  
 www.guardian-energy.com

**ADVANCED ENGINEERING GROUP, P.C.**  
 Civil Engineering - Site Development  
 Surveying - Telecommunications  
 500 NORTH BROADWAY  
 EAST PROVIDENCE, RI 02914  
 PH: 401-354-2403  
 FAX: 401-633-6354



ENGINEER/LAND SURVEYOR DATE

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REVISIONS

REV. #	DATE	DESCRIPTION
0	01/06/14	ISSUED FOR REVIEW

PROJECT NO:	DESIGNED BY:	MRC	SCALE
N/A	DRAWN BY:	AAB	
	CHECKED BY:	MRC	

PROJECT INFORMATION  
**WESTON MANOR**  
**BS13XC671**  
 15 WESTON AVENUE  
 SOMERVILLE, MA 02145

DRAWING TITLE  
 TITLE SHEET

DRAWING NUMBER  
**T-1**

SITE INFORMATION

**PROPERTY OWNER:**  
 SOMERVILLE HOUSING AUTHORITY  
 MEMORIAL ROAD  
 SOMERVILLE, MA 02145

**TOWER OWNER:**  
 N/A (ROOFTOP)

**LATITUDE (NAD83):**  
GOOGLE EARTH 2-C CONFIRMATION  
 42° 24' 12.51" N  
 42.4031°

**LONGITUDE (NAD83):**  
GOOGLE EARTH 2-C CONFIRMATION  
 -71° 07' 45.61" W  
 -71.1292°

**COUNTY:**  
 MIDDLESEX

**ZONING JURISDICTION:**  
 CITY OF SOMERVILLE

**ZONING DISTRICT:**  
 RESIDENCE B (RB)

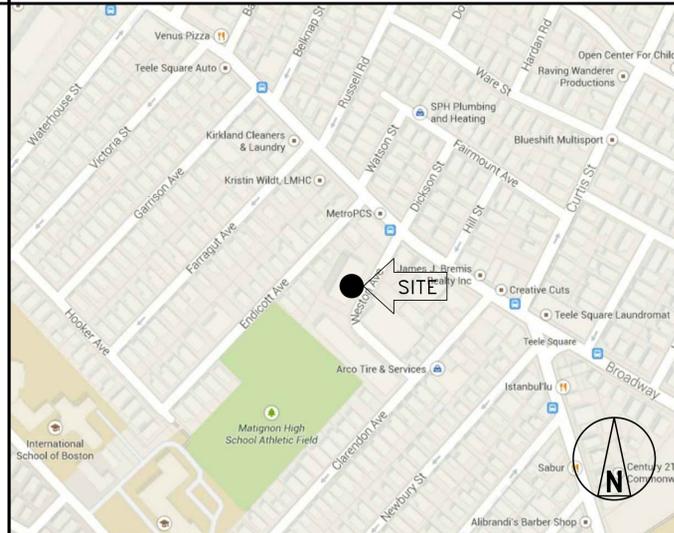
**POWER COMPANY:**  
 NSTAR ELECTRIC

**AAV PROVIDER:**  
 COMCAST

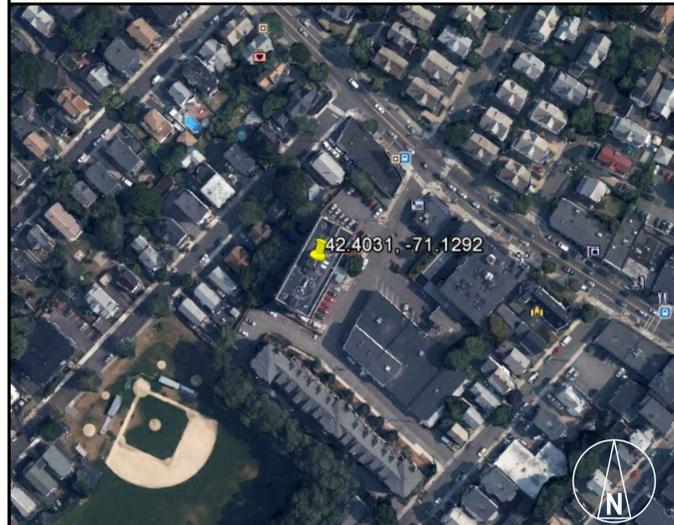
**SPRINT MARKET MANAGER:**  
 RONALD HIBBARD  
 PHONE: 774-269-8812  
 ronald.hibbard@sprint.com

**EQUIPMENT SUPPLIER:**  
 ALCATEL-LUCENT  
 600 MOUNTAIN AVENUE  
 MURRAY HILL, NJ 07974

AREA MAP



LOCATION MAP GOOGLE EARTH 2-C CONFIRMATION



PROJECT DESCRIPTION

SPRINT EQUIPMENT MODIFICATIONS REQUIRED TO SUPPORT MODERNIZATION OF AN EXISTING WIRELESS COMMUNICATIONS FACILITY AND UTILIZATION OF FCC BROADBAND SPECTRUM LICENSE FOR 2.5GHZ FREQUENCY, INCLUDING INSTALLATION OF:

GROUND-LEVEL RAN EQUIPMENT, CONSISTING OF  
 \* RETROFIT EXISTING MMBTS CABINET WITH 2.5 RADIO ACCESS NETWORK (RAN) EQUIPMENT  
 \* (2) ADDITIONAL BATTERY STRING(S) INSIDE EXISTING BATTERY BACKUP (BBU) CABINET

TOWER-TOP EQUIPMENT, INCLUDING INSTALLATION OF:  
 \* (3) PANEL ANTENNAS  
 \* (3) REMOTE RADIO HEADS (RRH)  
 \* (1) HYBRID FIBER CABLE (AND ASSOCIATED FIBER, DC POWER, COAXIAL CABLE JUMPERS AND ANTENNA REMOTE ELECTRICAL-TILT (RET) CABLE

**SPECIAL ZONING NOTE:**  
 BASED ON INFORMATION PROVIDED BY SPRINT REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AND ELIGIBLE FACILITY UNDER THE TAX RELIEF ACT OF 2012, 47 USC 1455(A), AND IS SUBJECT TO AN EXPEDITED ELIGIBLE FACILITIES REQUEST/REVIEW AND ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, ADMINISTRATIVE REVIEW).

GENERAL NOTES

- THIS IS AN UNMANNED TELECOMMUNICATION FACILITY AND NOT FOR HUMAN HABITATION:  
 - ADA COMPLIANCE NOT REQUIRED.  
 - POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.  
 - NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.
- CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.
- NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.  
 BUILDING CODE: MASSACHUSETTS STATE BUILDING CODE 780 CMR 8TH EDITION  
 ELECTRICAL CODE: 2005 NATIONAL ELECTRICAL CODE  
 STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.



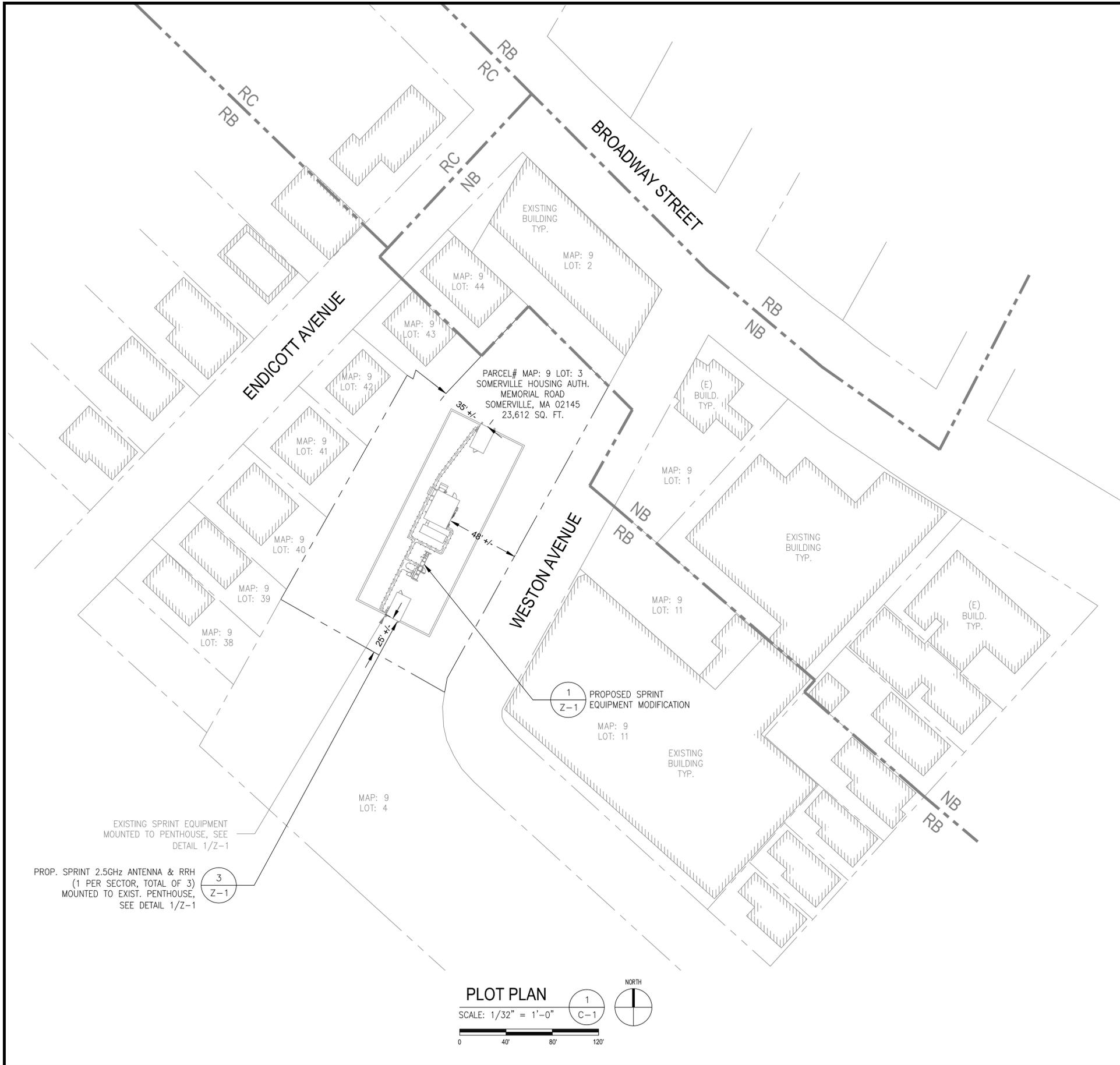
DRAWING INDEX

SHEET NO:	SHEET TITLE	REV	CHK	BY
T-1	TITLE SHEET	0	MRC	AAB
C-1	PLOT PLAN	0	MRC	AAB
Z-1	ROOF AND EQUIPMENT PLANS	0	MRC	AAB
Z-2	ELEVATION	0	MRC	AAB
Z-3	ANTENNA PLANS	0	MRC	AAB
Z-4	EQUIPMENT DETAILS	0	MRC	AAB
Z-5	MOUNTING DETAILS	0	MRC	AAB

APPROVALS

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

SPRINT: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONSTRUCTION MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 LEASING/SITE ACQUISITION: \_\_\_\_\_ DATE: \_\_\_\_\_  
 RF ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 LANDLORD/TOWER OWNER: \_\_\_\_\_ DATE: \_\_\_\_\_



**GENERAL NOTES:**

- FIELD SURVEY DATE: 8/26/13
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
- PROPERTY OWNER: SOMERVILLE HOUSING AUTHORITY MEMORIAL ROAD SOMERVILLE, MA 02145
- APPLICANT: SPRINT 1 INTERNATIONAL BLVD, SUITE 800 MAHWAH, NJ 07495
- JURISDICTION: CITY OF SOMERVILLE
- TAX ID: 9-B-3
- ZONING JURISDICTION: CITY OF SOMERVILLE
- PROPERTY LINE INFORMATION IS COMPILED FROM SOMERVILLE'S ONLINE GIS SYSTEM AND MASS GIS, AND IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD BOUNDARY SURVEY, AND IS SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. A FULL BOUNDARY SURVEY WAS NOT PERFORMED.
- BEARING SYSTEM OF THIS PLAN IS BASED ON TRUE NORTH. TRUE NORTH WAS ESTABLISHED FROM EXISTING PLAN REFERENCE. IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF TRUE NORTH.

**LEGEND**

	PROPERTY LINE
	ABUTTING PROPERTY LINE
	EXIST. CONTOUR
	EXIST. CHAIN LINK FENCE
	PROP. CHAIN LINK FENCE
	EXIST. TREE LINE
	EXIST. STREET LAYOUT
	EXIST. EASEMENT
	EXIST. OVERHEAD UTILITIES
	PROP. OVERHEAD UTILITIES
	EXIST. UNDERGROUND UTILITIES
	PROP. UNDERGROUND UTILITIES
	EXIST. UTILITY POLE #XXX
	ZONING BOUNDARY LINE
	ZONING DISTRICT
	TOWN BOUNDARY LINE

**ZONING SUMMARY TABLE**

ZONING DISTRICT:	RESIDENCE B (RB)	
ASSESSORS ID:	MAP: 9 BLOCK: B LOT: 3	
PROPOSED USE:	WIRELESS COMMUNICATION FACILITY	
DIMENSION:	REQUIRED MINIMUM	PROVIDED
LOT AREA	7,000 FT	23,612 ± FT
LOT FRONTAGE	30 FT	220± FT
FRONT YARD SETBACK*	10 FT	48± FT
SIDE YARD SETBACK*	26 FT	25± FT
REAR YARD SETBACK*	15 FT	35± FT
ANTENNA HEIGHT OF ABOVE ROOF	40 FT	10± FT

\*PROPOSED EQUIPMENT TO NEAREST LOT LINE

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	CHECKED BY: MRC	

**WESTON MANOR**  
**BS13XC671**

15 WESTON AVENUE  
SOMERVILLE, MA 02145

DRAWING TITLE

PLOT PLAN

DRAWING NUMBER

**C-1**



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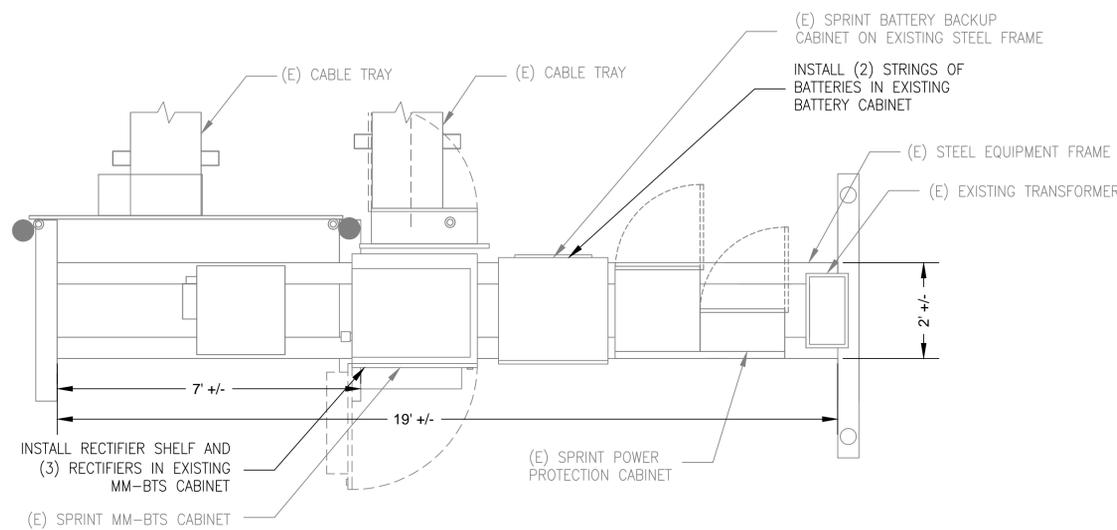
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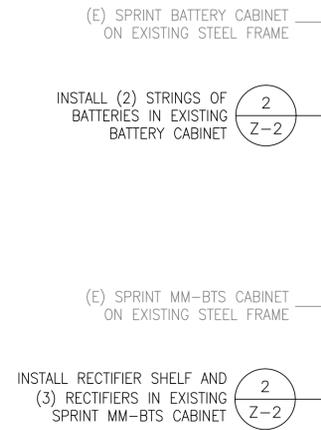
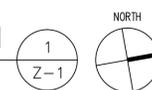
DRAWING TITLE  
**ROOF AND EQUIPMENT PLANS**

DRAWING NUMBER  
**Z-1**



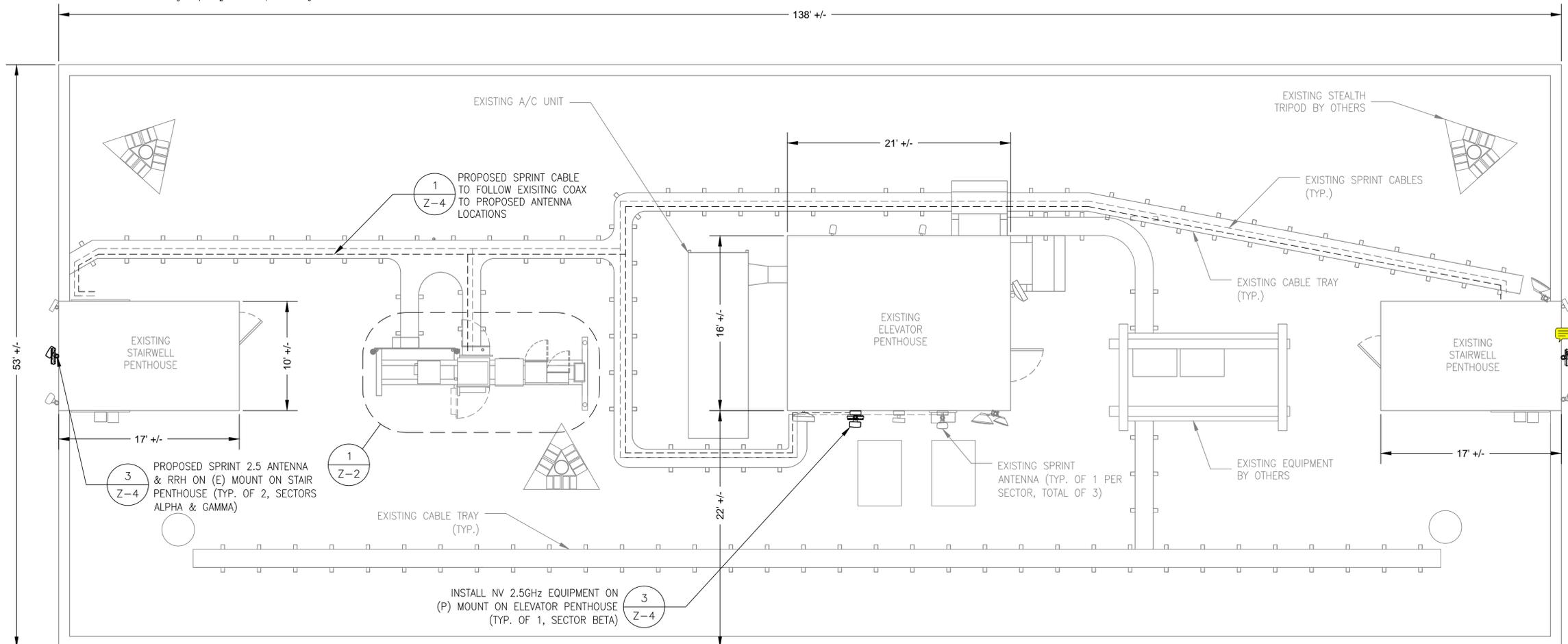
**RAISED EQUIPMENT PLATFORM**

SCALE: 3/8" = 1'-0"



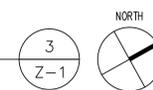
**RAN EQUIPMENT PHOTO DETAIL**

SCALE: N.T.S.



**ROOF PLAN**

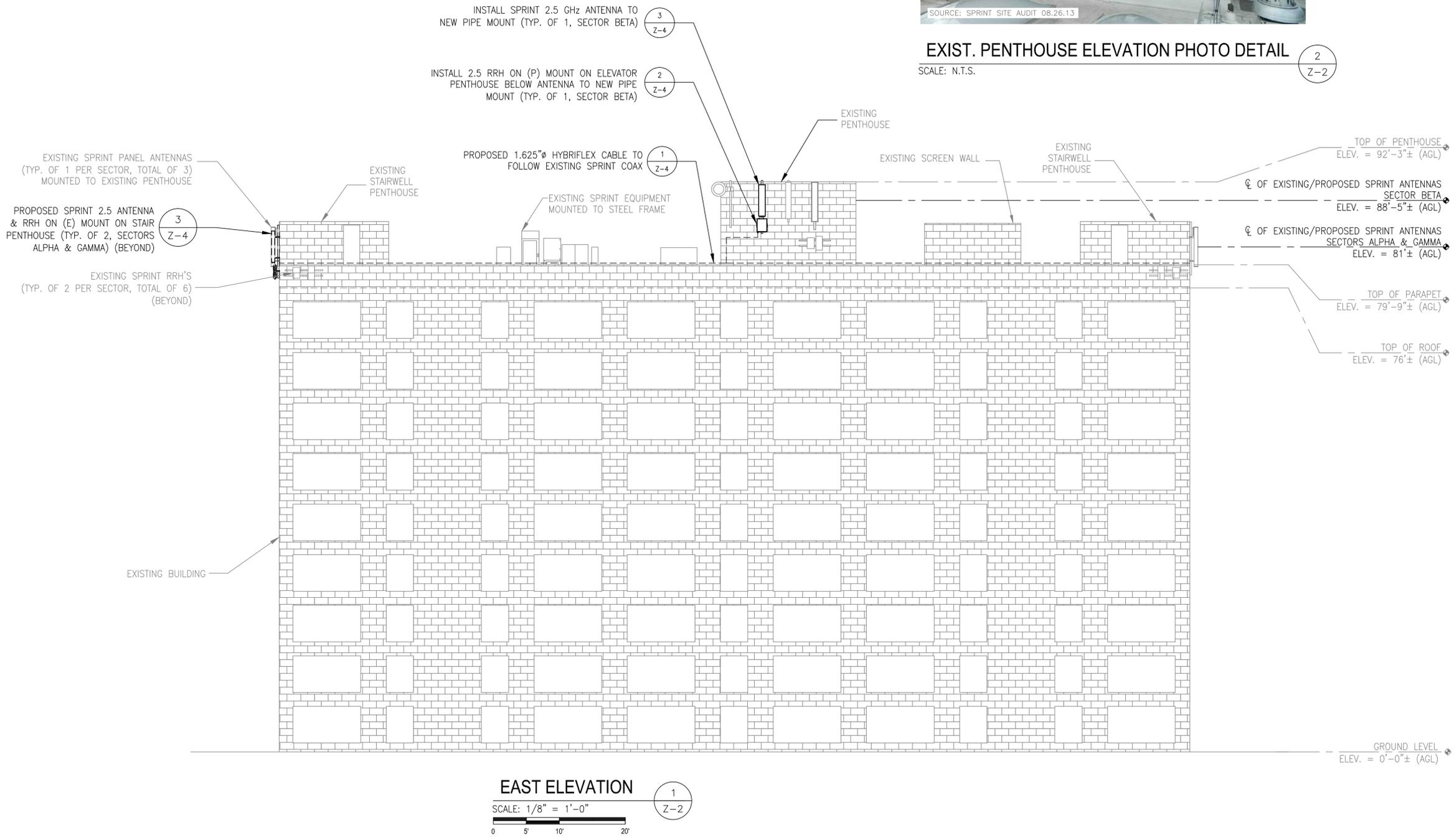
SCALE: 3/16" = 1'-0"



EXISTING BUILDING



**EXIST. PENTHOUSE ELEVATION PHOTO DETAIL**  
SCALE: N.T.S.



**Sprint VISION**

1 INTERNATIONAL BLVD, SUITE 800  
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**REGISTERED PROFESSIONAL ENGINEER**  
MARC R. CHRETIEN  
CIVIL  
No. 40313

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BS13XC671

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SOMERVILLE, MA 02145

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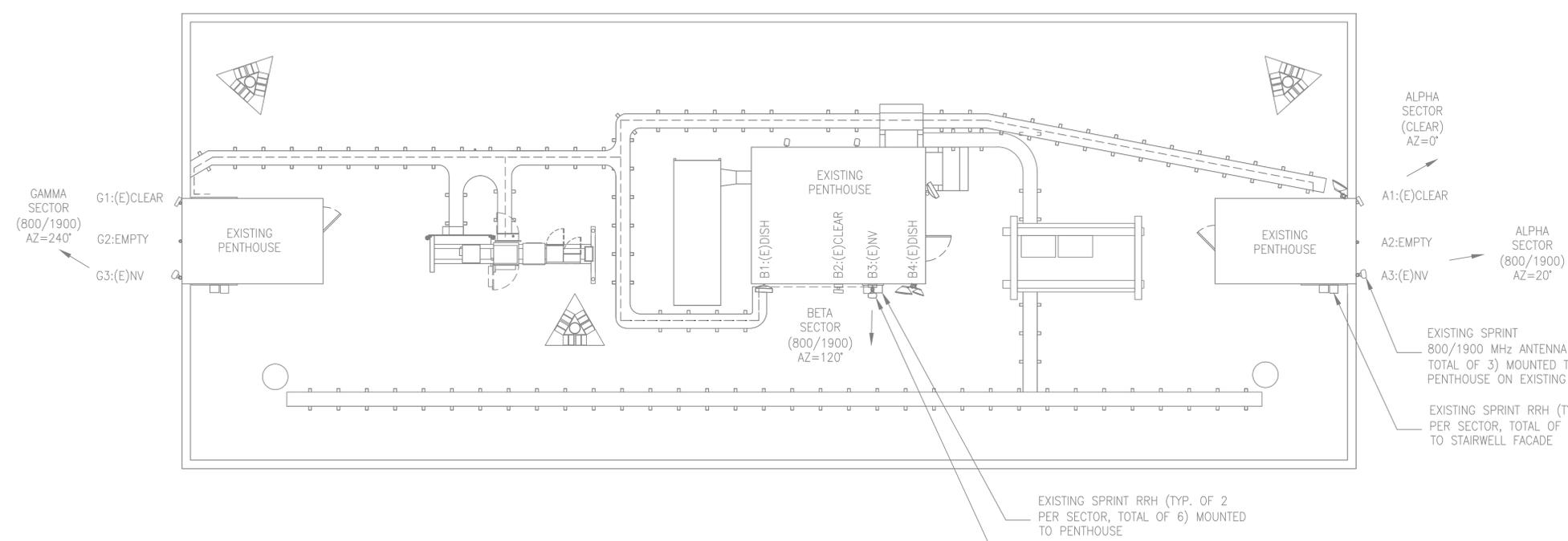
**ELEVATION**

DRAWING NUMBER

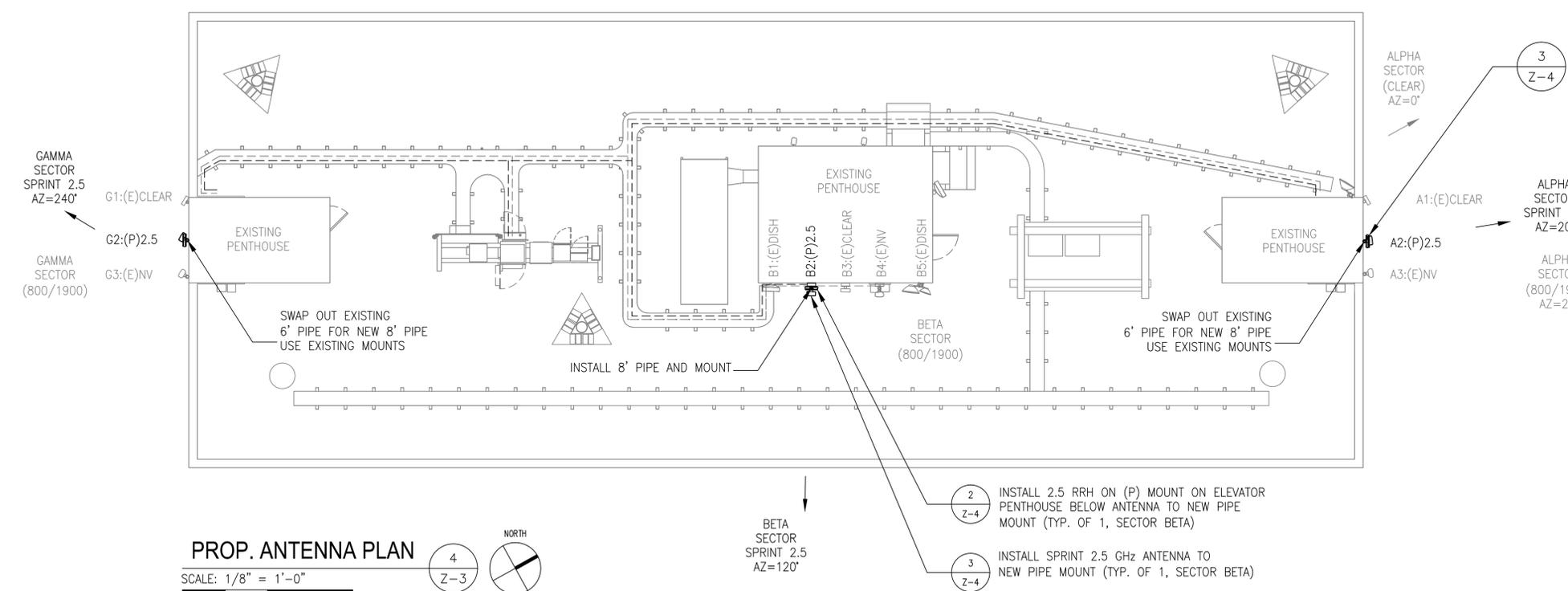
**Z-2**

**NOTE:**  
EXISTING AZIMUTHS FROM SPRINT  
SITE AUDIT DATED 08/26/13

**ANTENNA STATUS LEGEND:**  
EMPTY – EMPTY PIPE  
(E) – EXISTING  
(P) – INSTALL  
NV – SPRINT ANTENNA  
2.5 – SPRINT ANTENNA



**EXIST. ANTENNA PLAN**  
SCALE: 1/8" = 1'-0"  
0 5' 10' 20'  
3  
Z-3



**PROP. ANTENNA PLAN**  
SCALE: 1/8" = 1'-0"  
0 5' 10' 20'  
4  
Z-3

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**DRAWING TITLE**  
**ANTENNA PLANS**

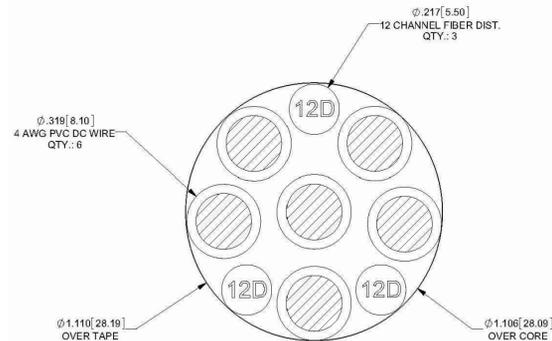
**DRAWING NUMBER**  
**Z-3**

HYBRID CABLE DC CONDUCTOR SIZE GUIDELINE			
MANUF:	RFS		
CABLE	LENGTH	DC CONDUCTOR	CABLE DIAMETER
FIBER ONLY	VARIABLES	USE NV HYBRIFLEX	5/8"
HYBRIFLEX	<200'	8 AWG	1-1/4"
HYBRIFLEX	225-300'	6 AWG	1-1/4"
HYBRIFLEX	325-375'	4 AWG	1-1/4"

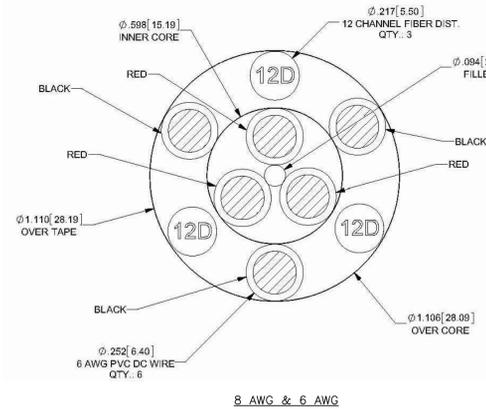
MANUF:	ALCATEL-LUCENT
MODEL:	TD-RRH8x20-25
LENGTH:	26.1
WIDTH:	18.6
DEPTH:	6.7
WEIGHT:	70 LBS
AREA:	3.5 SF

RFS HYBRIFLEX RISER CABLE SCHEDULE

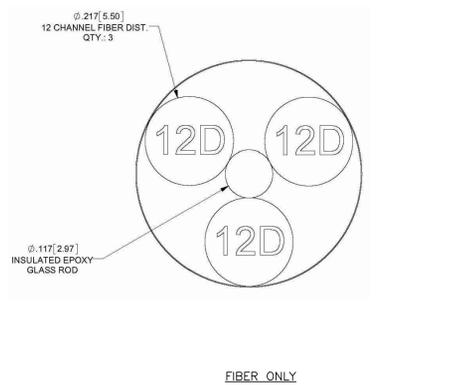
Fiber Only (Existing DC Power)	Hybrid cable MN: HB058-M12-050F 12x multi-mode fiber pairs, Top: Outdoor protected connectors, Bottom: LC Connectors, 5/8 cable, 50 ft	50 ft
	MN: HB058-M12-075F	75 ft
	MN: HB058-M12-100F	100 ft
	MN: HB058-M12-125F	125 ft
	MN: HB058-M12-150F	150 ft
	MN: HB058-M12-175F	175 ft
8 AWG Power	Hybrid cable MN: HB114-08U3M12-050F 3x 8 AWG power pairs, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 50 ft	50 ft
	MN: HB114-08U3M12-075F	75 ft
	MN: HB114-08U3M12-100F	100 ft
	MN: HB114-08U3M12-125F	125 ft
	MN: HB114-08U3M12-150F	150 ft
	MN: HB114-08U3M12-175F	175 ft
6 AWG Power	Hybrid cable MN: HB114-13U3M12-225F 3x 6 AWG power pair, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 225 ft	225 ft
	MN: HB114-13U3M12-250F	250 ft
	MN: HB114-13U3M12-275F	275 ft
	MN: HB114-13U3M12-300F	300 ft
4 AWG Power	Hybrid cable MN: HB114-21U3M12-325F 3x 4 AWG power pair, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 325 ft	325 ft
	MN: HB114-21U3M12-350F	350 ft
	MN: HB114-21U3M12-375F	375 ft



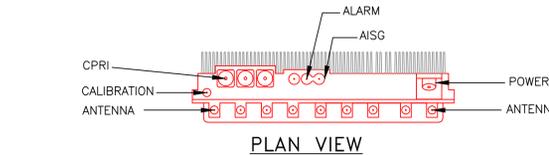
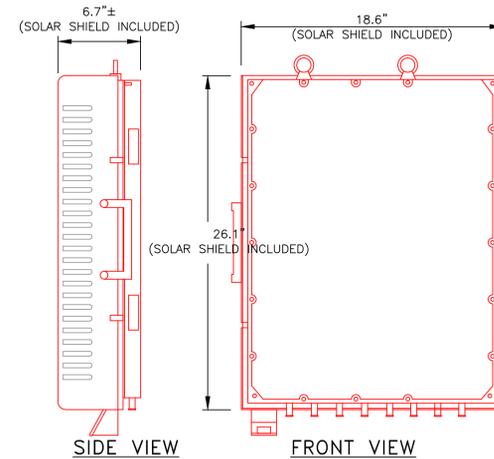
4 AWG



8 AWG & 6 AWG



FIBER ONLY



2.5 RRH'S

SCALE: N.T.S.

2  
Z-4

RFS HYBRIFLEX JUMPER CABLE SCHEDULE

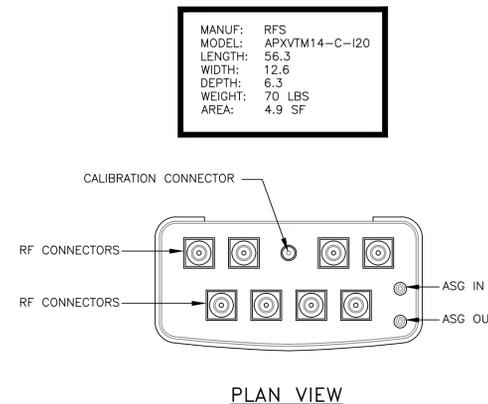
Fiber Only	Hybrid Jumper cable MN: HBF012-M3-5F1 5 ft, 3x multi-mode fiber pairs, Outdoor & LC connectors, 1/2 cable	5 ft
	MN: HBF012-M3-10F1	10 ft
	MN: HBF012-M3-15F1	15 ft
	MN: HBF012-M3-20F1	20 ft
	MN: HBF012-M3-25F1	25 ft
	MN: HBF012-M3-30F1	30 ft
8 AWG Power	Hybrid Jumper cable MN: HBF058-08U1M3-5F1 5 ft, 1x 8 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 5/8 cable	5 ft
	MN: HBF058-08U1M3-10F1	10 ft
	MN: HBF058-08U1M3-15F1	15 ft
	MN: HBF058-08U1M3-20F1	20 ft
	MN: HBF058-08U1M3-25F1	25 ft
	MN: HBF058-08U1M3-30F1	30 ft
6 AWG Power	Hybrid Jumper cable MN: HBF058-13U1M3-5F1 5 ft, 1x 6 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 5/8 cable	5 ft
	MN: HBF058-13U1M3-10F1	10 ft
	MN: HBF058-13U1M3-15F1	15 ft
	MN: HBF058-13U1M3-20F1	20 ft
	MN: HBF058-13U1M3-25F1	25 ft
	MN: HBF058-13U1M3-30F1	30 ft
4 AWG Power	Hybrid Jumper cable MN: HBF078-21U1M3-5F1 5 ft, 1x 4 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 7/8 cable	5 ft
	MN: HBF078-21U1M3-10F1	10 ft
	MN: HBF078-21U1M3-15F1	15 ft
	MN: HBF078-21U1M3-20F1	20 ft
	MN: HBF078-21U1M3-25F1	25 ft
	MN: HBF078-21U1M3-30F1	30 ft

\* NOTE: SPRINT CM TO CONFIRM HYBRID RISER CABLE AND HYBRID JUMPER CABLE MODEL NUMBERS BEFORE PREPARING BOM.

2.5 FIBER CABLE X-SECTION AND DATA

SCALE: N.T.S.

1  
Z-4



PLAN VIEW

MANUF:	RFS
MODEL:	APXVTM14-C-120
LENGTH:	56.3
WIDTH:	12.6
DEPTH:	6.3
WEIGHT:	70 LBS
AREA:	4.9 SF

2.5 ANTENNA SPECIFICATIONS

SCALE: N.T.S.

3  
Z-4



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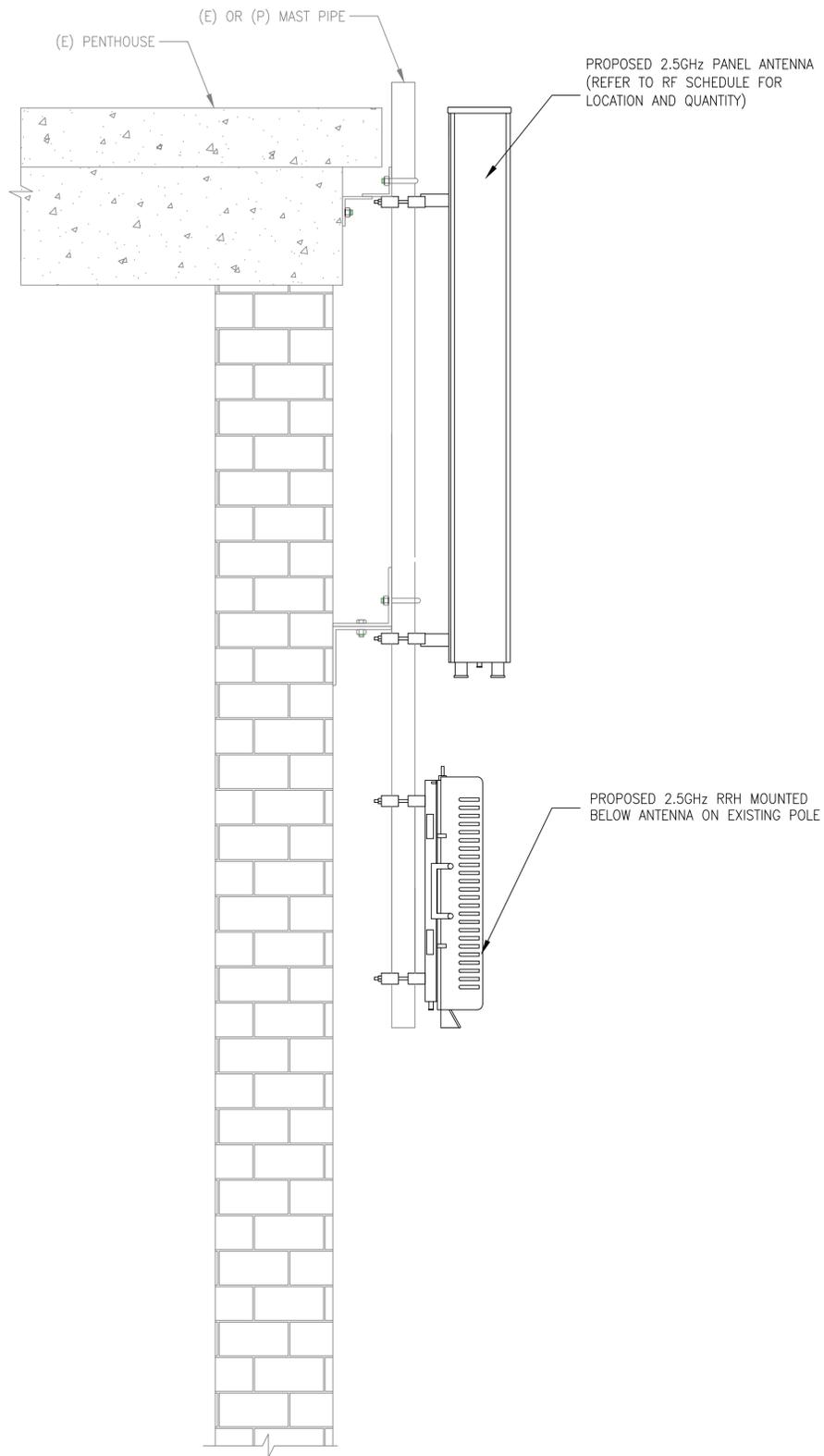
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DRAWING TITLE  
**EQUIPMENT DETAILS**

DRAWING NUMBER  
**Z-4**



**TYPICAL 2.5GHz ANTENNA & RRH MOUNTING DETAIL**  
SCALE: N.T.S.

1  
Z-5



**2.5 ANTENNA PHOTO DETAIL**  
SCALE: N.T.S.

2  
Z-5

**Sprint VISION**  
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**EG ADVANCED ENGINEERING GROUP, P.C.**  
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Surveying - Telecommunications  
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EAST PROVIDENCE, RI 02914  
PH: 401-354-2403  
FAX: 401-633-6354

**REGISTERED PROFESSIONAL ENGINEER**  
MARC R. CHRETIEN  
CIVIL  
No. 40313  
REGISTERED PROFESSIONAL ENGINEER

ENGINEER/LAND SURVEYOR      DATE

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS		
REV. #	DATE	DESCRIPTION
0	01/06/14	ISSUED FOR REVIEW

PROJECT NO. N/A	DESIGNED BY: MRC	SCALE AS SHOWN
	DRAWN BY: AAB	
	CHECKED BY: MRC	

**PROJECT INFORMATION**

**WESTON MANOR  
BS13XC671**

15 WESTON AVENUE  
SOMERVILLE, MA 02145

DRAWING TITLE  
**MOUNTING DETAILS**

DRAWING NUMBER  
**Z-5**