

PROPOSED WIRELESS COMMUNICATION FACILITY

1033 SPRINGFIELD AVENUE
CRANFORD, NJ 07016
BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5
BLOCK: 122 LOT: 5
UNION COUNTY

verizonwireless
**NEW YORK SMSA
LIMITED PARTNERSHIP
D/B/A VERIZON WIRELESS**
400 Warren Corporate Center Drive. Building D.
Warren, New Jersey 07059
Site: Westfield 4

..T..Mobile..
NORTHEAST LLC.
4 Sylvan Way
Parsippany, New Jersey 07054
Site: NJ09961A

AT&T
Mobillity
NEW CINGULAR WIRELESS PCS, LLC
BY AT&T MOBILITY CORPORATION
One AT&T Way
Bedminster, New Jersey 07921
Site: W-1128
FA: 10110601

FCArchitects
350 Clark Drive | Suite 304
Mount Olive, NJ 07828
O 973-726-7164 | F 973-726-7204
fcolasurdo@fcarchitectsinc.com
Frank Colasurdo Architects, Inc

Frank Colasurdo, RA Date
NJ Lic. #13753
NY Lic. #029379-1
PA Lic. #RA403655
MA Lic. #32346
MD Lic. #19079

APPLICANT/CLIENT:
verizonwireless
**New York SMSA Limited
Partnership
D/B/A Verizon Wireless**
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Building D
Warren, NJ 07059
(908) 256-7000

CO-APPLICANT/CLIENT:
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Mobility
**New Cingular Wireless PCS, LLC
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(908) 532-1995
CO-APPLICANT/CLIENT:
T-MOBILE NORTHEAST, LLC.
4 Sylvan Way
Parsippany, NJ 07054
(973) 397-4800

PROJECT:
**WIRELESS COMMUNICATION
FACILITY**
"WESTFIELD 4"
1033 SPRINGFIELD AVE,
CRANFORD, NEW JERSEY 07016
BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4
& 5, BLOCK: 122 LOT: 5
UNION COUNTY

3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/19
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/19
1	FINAL ZONING DRAWINGS	04/12/19
0	PRELIMINARY ZONING DRAWINGS	11/28/18

ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE
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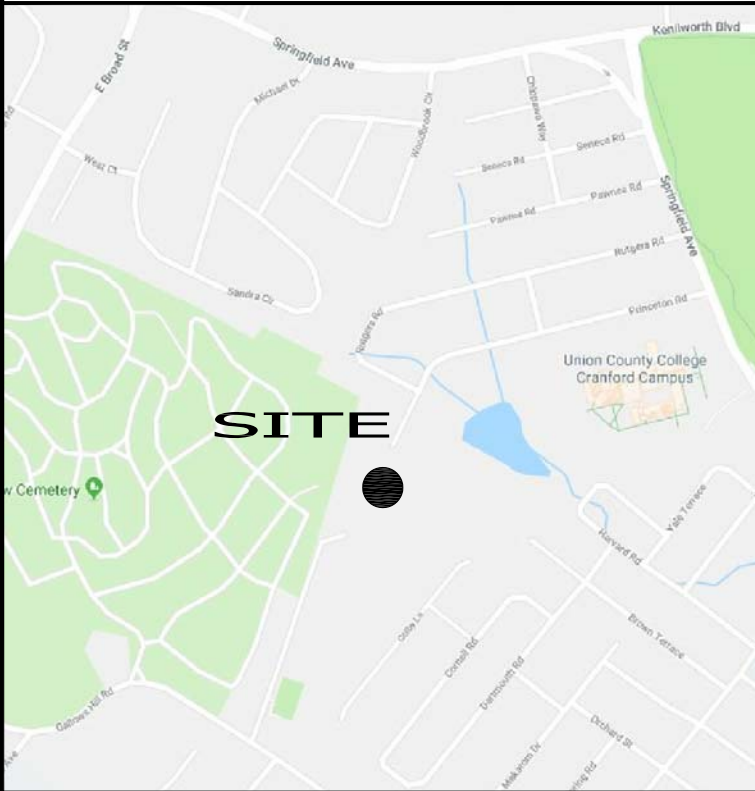
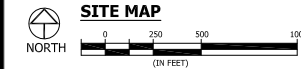
SHEET TITLE:
COVER SHEET

PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
**UNION COUNTY
COLLEGE**

DRAWN BY: DATE:
AMA 11/28/18

SHEET No:
21

SITE MAP	PROJECT CONTACTS	SIGNATURE BLOCK	LIST OF DRAWINGS				
	<div><div>VERIZON WIRELESS:</div><div><ul style="list-style-type: none">REAL ESTATE: TONY EGIDIO (908) 256-7515CONSTRUCTION: CHRIS MURRAY (973) 277-1914RF ENGINEER: GLEN PIERSON (201) 572-6206PROJECT PLANNER: WILLIAM MASTERS (973) 540-1332ATTORNEY: PRICE, MEESE SHULMAN & D'ARMINIO 50 TICE BOULEVARD, SUITE 380 WOODCLIFF LAKE, NJ 07677 GREGORY D. MEESE (201) 799-2927CITY: TOWNSHIP OF CRANFORD 8 SPRINGFIELD AVENUE CRANFORD, NJ 07016 (908) 709-7200</div></div> <div><div>AT&T:</div><div><ul style="list-style-type: none">REAL ESTATE: VICKY BRENNIA (516) 557-2398RF ENGINEER: GLEN PIERSON (201) 572-6206T-MOBILE:REAL ESTATE: THERESA MERCADO (973) 766-2835RF ENGINEER: GLEN PIERSON (201) 572-6206</div></div>	<div>THIS APPLICATION NO. _____ IS APPROVED BY THE CRANFORD TOWNSHIP ZONING BOARD OF ADJUSTMENT.</div> <div>CHAIRPERSON _____</div> <div>DATE _____</div> <div>SECRETARY _____</div> <div>DATE _____</div> <div>BOARD ENGINEER _____</div> <div>DATE _____</div>	Sheet	Title	Issue #	Date	
				Z1	COVER SHEET	3	05/10/19
				Z2	200 FT PROPERTY OWNERS LIST	3	05/10/19
			Z2a	TAX MAP & 200 FT PROPERTY OWNERS LIST	3	05/10/19	
			Z3	AERIAL AND ZONING MAP	3	05/10/19	
			Z4	OVERALL SITE KEY PLAN	3	05/10/19	
			Z5	SITE PLAN AND ZONING INFORMATION	3	05/10/19	
			Z6	COMPOUND PLAN & SITE ELEVATION	3	05/10/19	
			Z7	VERIZON EQUIPMENT PLAN & ELEVATION	3	05/10/19	
			Z8	VERIZON EQUIPMENT CABINET SPECIFICATIONS	3	05/10/19	
			Z9	VERIZON ANTENNA PLAN & DETAILS	3	05/10/19	
			Z10	VERIZON RRH'S & GPS DETAILS AND SPECS	3	05/10/19	
			Z11	VERIZON GENERATOR SPECIFICATIONS	3	05/10/19	
			Z12	AT&T EQUIPMENT PLAN & ELEVATION	3	05/10/19	
			Z13	AT&T EQUIPMENT CABINET SPECIFICATIONS	3	05/10/19	
			Z14	AT&T ANTENNA PLAN & DETAILS	3	05/10/19	
			Z15	AT&T RRH'S & GPS DETAILS AND SPECS	3	05/10/19	
			Z16	AT&T GENERATOR SPECIFICATIONS	3	05/10/19	
			Z17	T-MOBILE EQUIPMENT PLAN & ELEVATION	3	05/10/19	
			Z18	T-MOBILE EQUIPMENT CABINET SPECIFICATIONS	3	05/10/19	
			Z19	T-MOBILE ANTENNA PLAN & DETAILS	3	05/10/19	
			Z20	T-MOBILE RRH'S & GPS DETAILS AND SPECS	3	05/10/19	
			Z21	T-MOBILE GENERATOR SPECIFICATIONS	3	05/10/19	
			Z22	MISCELLANEOUS SITE DETAILS	3	05/10/19	
			Z23	GRADING PLAN	3	05/10/19	
			Z24	SITE CROSS SECTION	3	05/10/19	
			Z25	LANDSCAPING PLAN AND DETAILS	3	05/10/19	
			Z26	SOIL AND SEDIMENT CONTROL PLAN AND DETAILS	3	05/10/19	
			Z27	SOIL AND SEDIMENT CONTROL NOTES	3	05/10/19	
							
	<div>SITE INFORMATION</div> <div><div><ul style="list-style-type: none">SITE ADDRESS: 1033 SPRINGFIELD AVE CRANFORD, NJ 07016MUNICIPAL ID: BLOCK#: 121 & 122 LOT#: 1, 2.01, 2.02, 3, 4 & 5 ZONE: "E-1" - EDUCATION DISTRICTSOIL DISTURBANCE: 2304 SQ. FT.</div><div><ul style="list-style-type: none">FLOOD PLAIN: SUBJECT PARCEL LIES IN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER THE FLOOD RATE INSURANCE MAP NUMBER 34039C0020F PANEL 20 OF 49 FOR UNION COUNTY, NEW JERSEY, DATED SEPTEMBER 20, 2006</div></div> <div>OWNER/APPLICANT INFORMATION</div> <div><div><ul style="list-style-type: none">APPLICANT/LESSEE INFORMATION: NEW YORK SMSA LIMITED PARTNERSHIP D/B/A VERIZON WIRELESS 400 WARREN CORPORATE CENTER DRIVE. BUILDING D. WARREN, NEW JERSEY 07059 PHONE: (908) 256-7000CO-APPLICANT/LESSEE INFORMATION: NEW CINGULAR WIRELESS PCS, LLC. BY AT&T MOBILITY CORPORATION ONE AT&T WAY BEDMINSTER, NEW JERSEY 07921</div><div><ul style="list-style-type: none">PROPERTY OWNER: UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE CRANFORD, NJ 07016CO-APPLICANT/LESSEE INFORMATION: T-MOBILE NORTHEAST, LLC. 4 Sylvan Way ParlAppany, New Jersey 07054 Phone: (973) 397-4800</div></div>	<div>BUILDING CODE COMPLIANCE</div> <div>REFERENCE CODES: NJUCC, NJIBC 2015, N.E.C. 2014, EIA/TIA 222 REV.G-1 - 2007</div>	<div>SCOPE OF WORK</div> <div><div>1. THE CONSTRUCTION OF A NEW WIRELESS COMMUNICATIONS FACILITY FOR VERIZON WIRELESS, AT&T AND T-MOBILE.</div><div>2. THE PROPOSED WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY AND WILL BE VISITED APPROXIMATELY ONCE EVERY FOUR TO SIX WEEKS BY EACH CARRIER FOR ROUTINE MAINTENANCE.</div><div>3. THE FACILITY SHALL BE MONITORED FROM REMOTE MONITORING FACILITIES AND IN CASE OF AN EMERGENCY THE LOCAL FIRE OR POLICE DEPARTMENT WILL BE NOTIFIED.</div><div>4. CONNECTIONS FOR THE PROPOSED ELECTRIC AND TELEPHONE SERVICE ARE BASED ON SITE COORDINATION MEETINGS WITH THE LOCAL UTILITY COMPANIES.</div><div>5. THIS PROJECT DOES NOT REQUIRE ANY ADDITIONAL PARKING SPACES.</div><div>6. THIS PROJECT DOES NOT INVOLVE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.</div><div>7. THIS TYPE/NATURE OF THE WIRELESS FACILITY REQUIRES SPECIALIZED TRAINED TECHNICIANS AND IS EXEMPT FROM ADA COMPLIANCE.</div></div> <div>REFERENCE DRAWINGS: 1) FIELD MEASUREMENTS TAKEN ON 03/19/2015 BY FC Architects. 2) SITE IMPROVEMENTS AND LOCATIONS OF PROPERTY LINES ARE BASED A BOUNDARY SURVEY PREPARED BY RICHARD M. GARDELL, LLC # 36729, GARDELL ASSOCIATES, INC. LAND SURVEYING AND CONSULTING SERVICES, 57 KELLER AVENUE, ROCKAWAY, NEW JERSEY, 07866 TITLE "BOUNDARY SURVEY," BLOCK 212, LOT 2.01, CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY, DATED 4-4-2019</div>				

LIST OF PROPERTY OWNERS WITH 200' OF SUBJECT PARCEL
(WESTFIELD TOWNSHIP)

OWNER & ADDRESS REPORT						
WESTFIELD						
BLOCK	LOT	QUAL	CLA	PROPERTY OWNER	PROPERTY LOCATION	Adj'l Lots
3601	12		2	GILLHAUS, PATRICIA B 1045 HARDING ST WESTFIELD, NJ 07090	1045 HARDING ST	
3601	13.01		2	WELVIN, THOMAS P & KATHLEEN F 1044 HARDING ST WESTFIELD, NJ 07090	1044 HARDING ST	
3601	13.02		2	JAKUB, JOHN A & NANCY L 260 GALLOW'S HILL RD WESTFIELD, NJ 07090	260 GALLOW'S HILL RD	
3601	14		1	ASSESSED IN CRANFORD 00000	1059 COOLIDGE ST - REAR	
3601	15		2	BRALMAN, MICHAEL J & DANIA L 1055 COOLIDGE ST WESTFIELD, NJ 07090	1055 COOLIDGE ST	
3601	16		2	FELTHAM, ALBEN B & KHOURY, CLAUDIA 945 MODELAM AVE LINDEN, NJ 07036	1051 COOLIDGE ST	
3601	26		1	COOLIDGE HOMES LLC 817 JERUSALEM RD SCOTCH PLAINS, NJ 07076	1032 HARDING ST	
3701	1		15E	FAIRVIEW CEMETERY P.O. BOX 550 WESTFIELD, NJ 07090	1100 E BROAD ST	

TOWN OF WESTFIELD
PUBLIC UTILITIES

ELIZABETHTOWN GAS CO.
1 ELIZABETHTOWN PLAZA
UNION, NJ 07083
Attn: Kenneth G. Ward
Corporate Secretary
908-289-5000

VERIZON NEW JERSEY
EXECUTIVE OFFICES
540 BROAD STREET-1004C
NEWARK, NJ 07102
Attn: Michael Daddo
201-649-5948

PUBLIC SERVICE ELECTRIC
& GAS COMPANY
Manager/Corporate Properties
80 PARK PLACE PLAZA 100
NEWARK, NJ 07102
Attn: Thomas Siler
973-430-5666

NEW JERSEY AMERICAN WATER
PO BOX 111
PLAINFIELD, NJ 07061
Attn: Walter M. Brownell
Corporate Secretary
908-454-1234

COMCAST CABLEVISION
800 RAILWAY AVENUE
UNION, NJ 07083
Attn: Joe Fisher, General Manager
908-472-3033

RAILWAY VALLEY
SEWERAGE AUTHORITY
1050 E. HAZEL WOOD AVENUE
RAILWAY, NJ 07065
Attn: Richard Tokanski
732-388-0868

The listing of any public utility companies above, shall not be construed as complete compliance with any provision of the Municipal Land Use Law concerning notice to public utility companies as provided in August 1991 amendment. Other utilities may exist, and the applicant is responsible for verification and notification.



TAX MAP #003 & #007-015 - TOWNSHIP OF CRANFORD
SCALE: 1"=200'-0" (SHEET SIZE 22" X 34")
SCALE: 1"=400'-0" (SHEET SIZE 11" X 17")
0 200 400
IN FEET

FCA ARCHITECTS
350 Clark Drive | Suite 304
Mount Olive, NJ 07828
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fcolasurdo@fcarchitectsinc.com
Frank Colasurdo Architects, Inc

Frank Colasurdo, RA Date
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NY Lic. #029379-1
PA Lic. #RA403655
MA Lic. #32346
MD Lic. #19079

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verizon
New York SMSA Limited
Partnership
D/B/A Verizon Wireless
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Building D
Warren, NJ 07059
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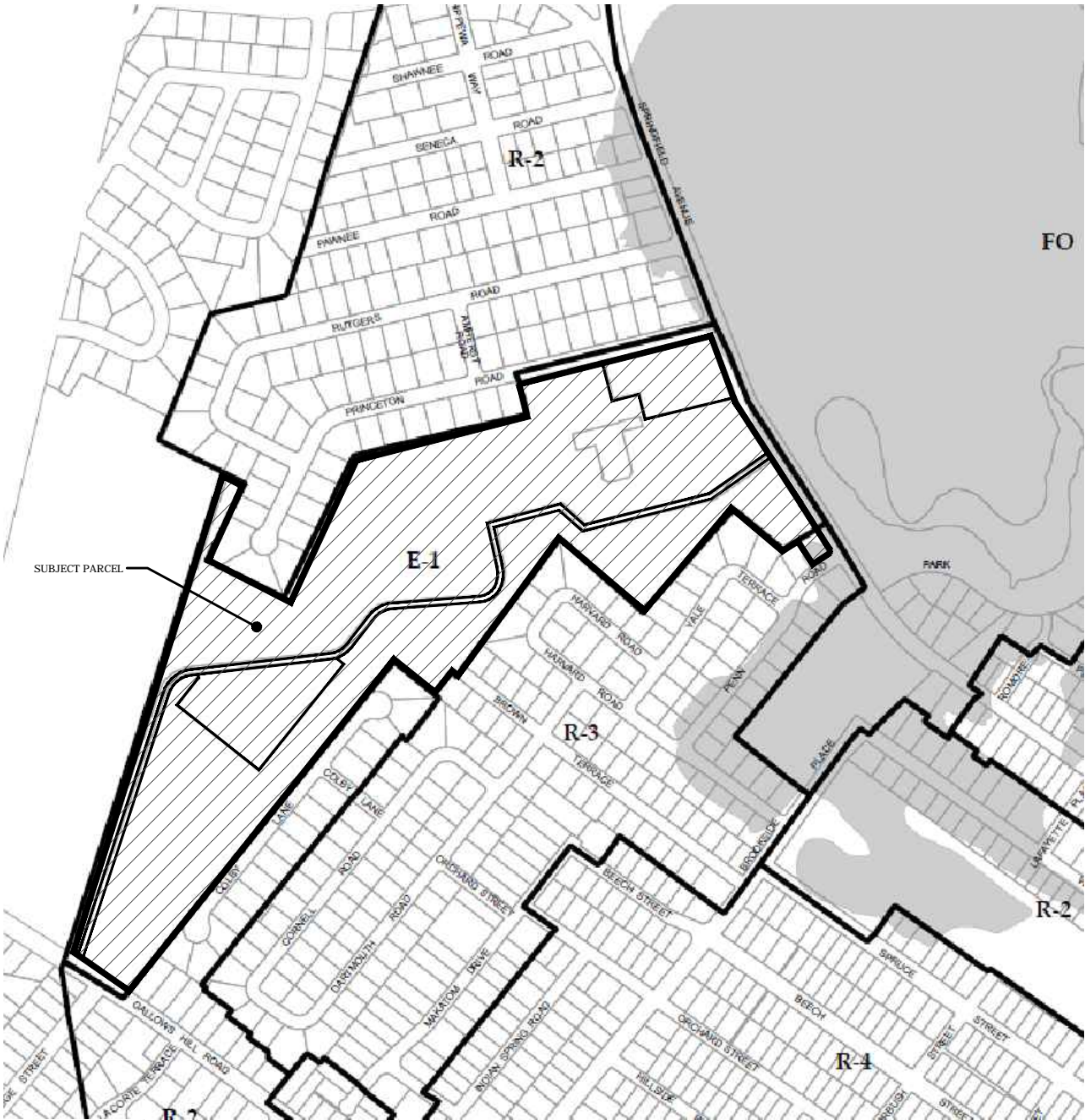
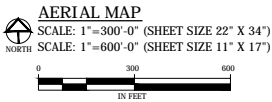
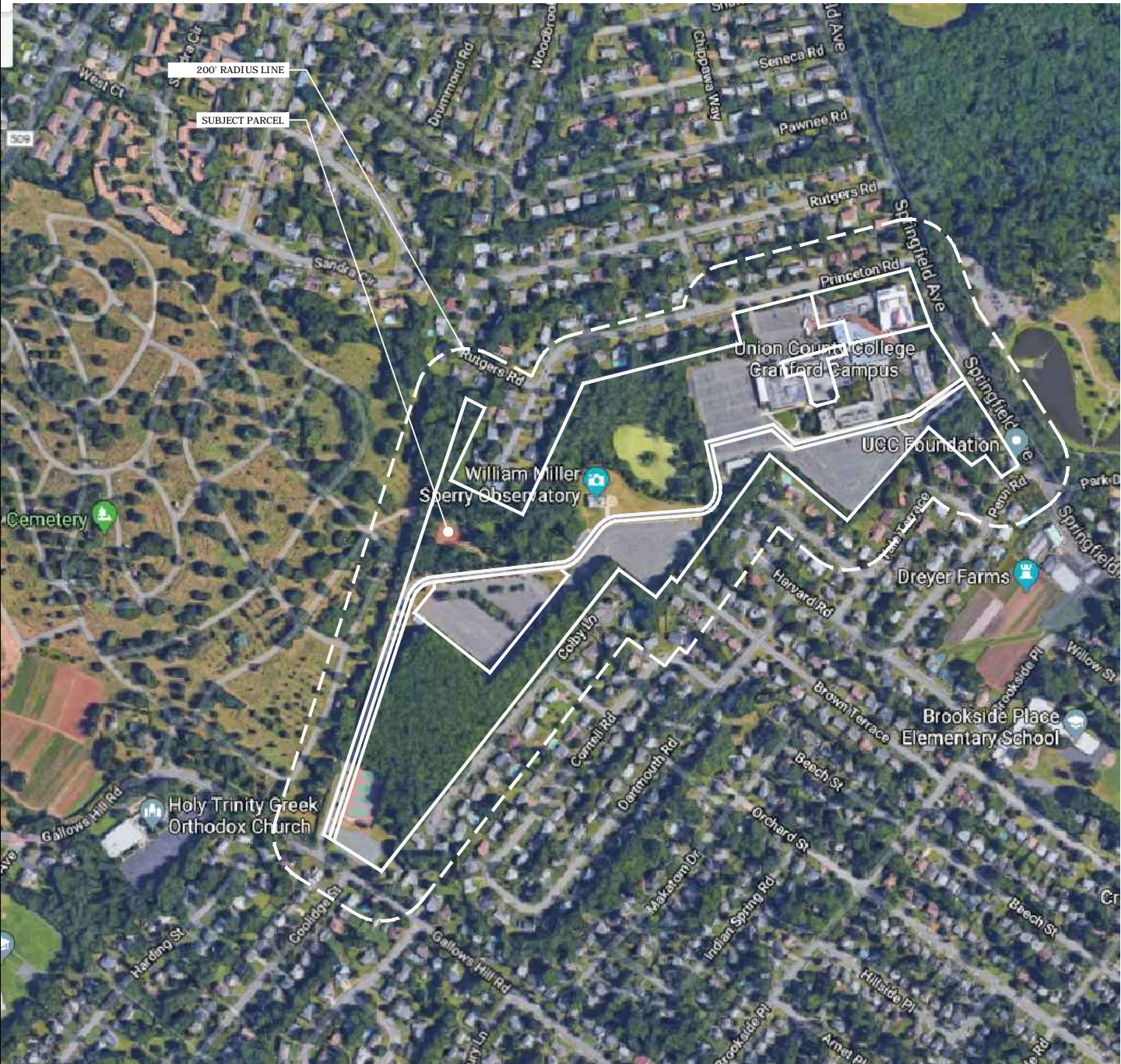
SHEET TITLE:
**TAX MAP & 200 FT
PROPERTY
OWNERS LIST**

PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
**UNION COUNTY
COLLEGE**

DRAWN BY: AMA DATE: 11/28/18

SHEET No:
Z2A



Zoning Designations

District
Abbreviation
R-1
R-2
R-3
R-4
R-5
R-6
R-7
R-8
R-SC-1
IMR

Zoning Districts
One-Family Detached Residence District
One-Family Detached Residence District
One-Family Detached Residence District
One-Family Detached Residence District
One- and Two-Family Residence District
Townhouse Residence District
Garden Apartment Residence District
Apartment Residence District
Senior Citizen Apartment Residence District
Inclusionary Multifamily Residence District

D-C
D-B
D-T
VC
NC
O-1
O-2
ORC
C-1
C-2
C-3
E-1
P-1

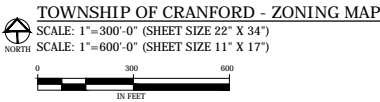
Downtown Core District
Downtown Business District
Downtown Transition District
Village Commercial District
Neighborhood Commercial District
Low Density Office Building District
Medium Density Office Building District
Office Residential Character District
Commercial - 1 District
Commercial - 2 District
Commercial - 3 District
Education District
Public Use District

R-CC
R-WG
R-R
R-ARR

FO

Redevelopment Districts
Cranford Crossing Redevelopment District
Western Gateway Rehabilitation District
Riverfront Redevelopment District
Age Restricted Redevelopment District

Overlay Districts
Floodplain Overlay District



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SHEET TITLE:
AERIAL AND ZONING MAP

PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
UNION COUNTY COLLEGE

DRAWN BY: AMA DATE: 11/28/18

SHEET No:
Z3

Frank Colasurdo, RA Date

NJ Lic. #13753
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SHEET TITLE:

OVERALL SITE KEY PLAN

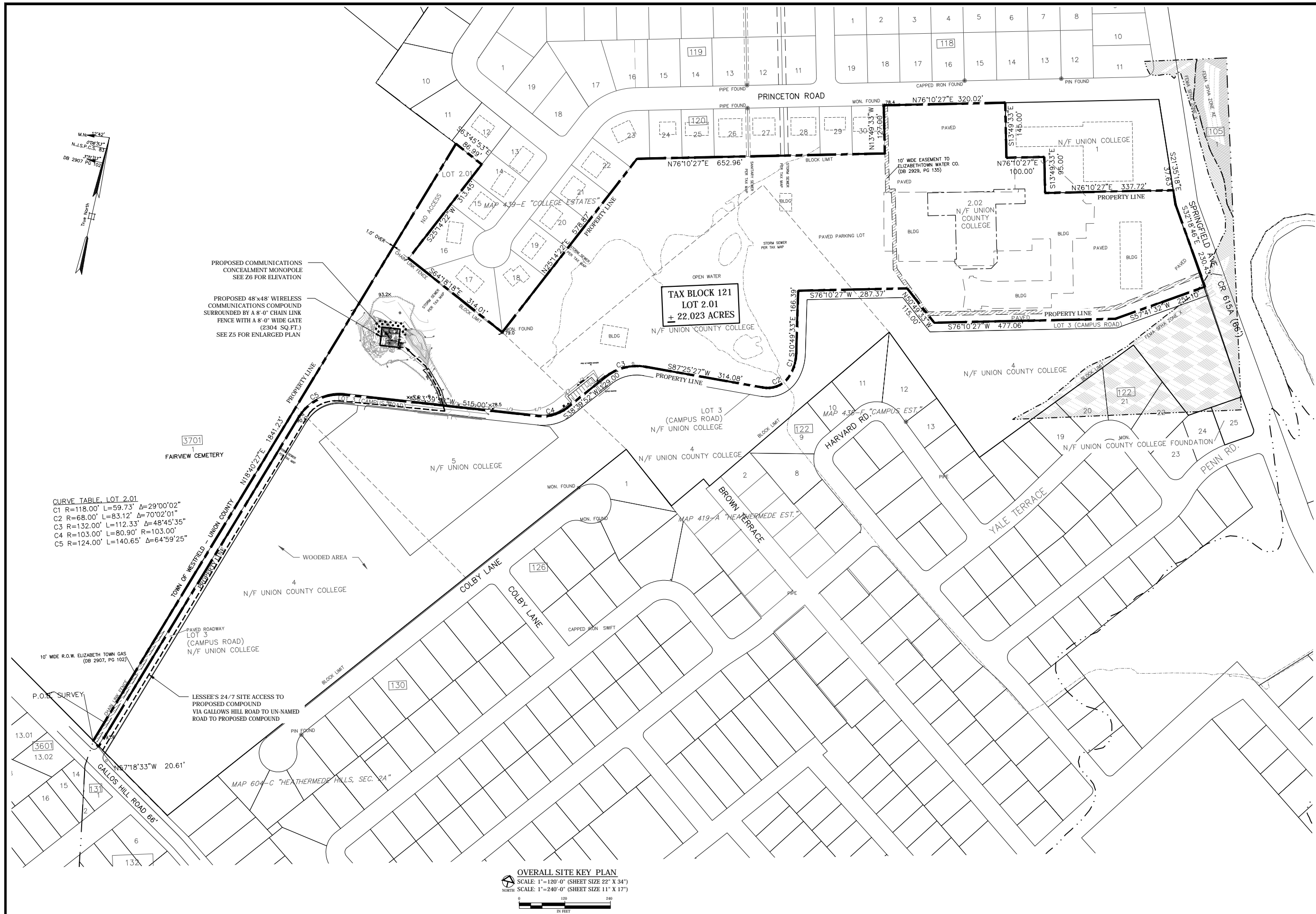
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SITE DESIGNATION:
**UNION COUNTY
COLLEGE**

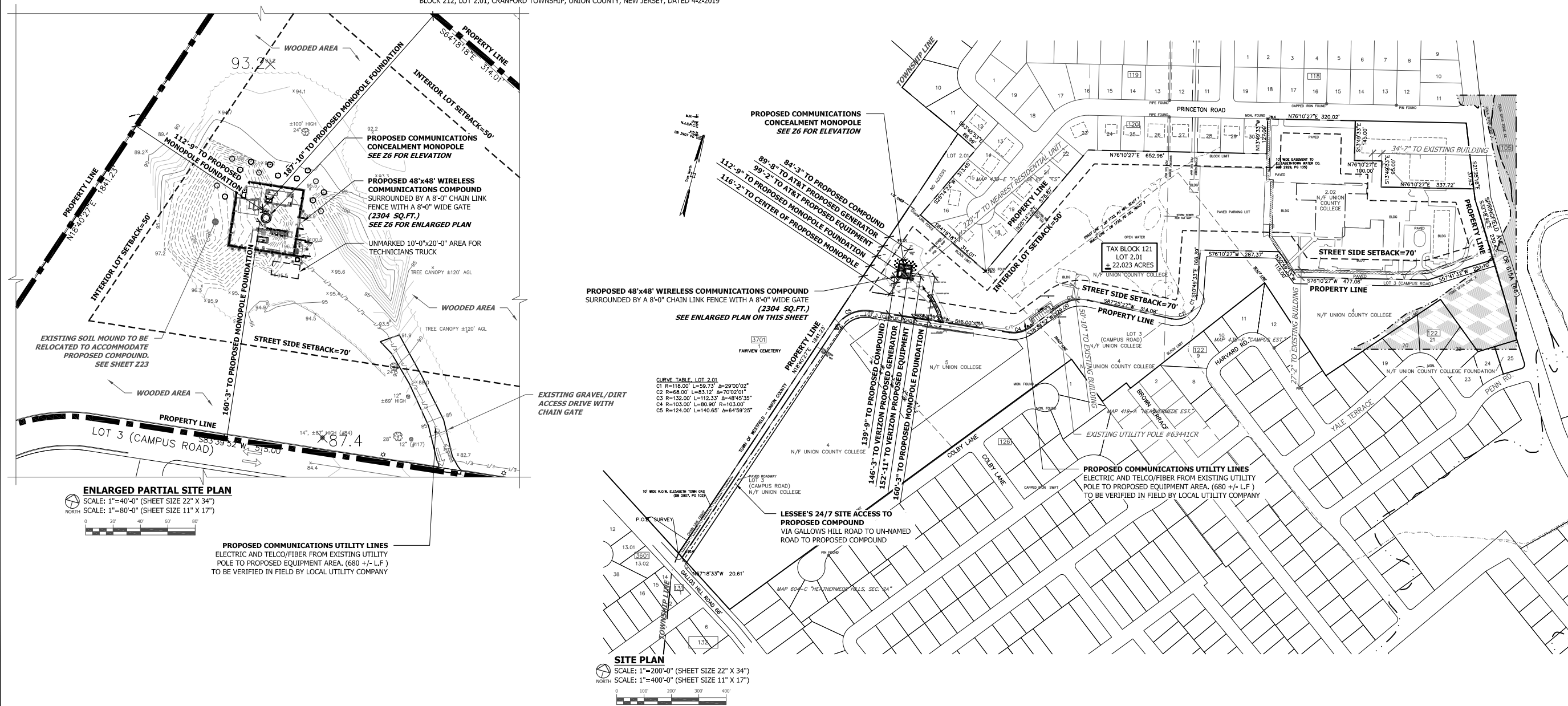
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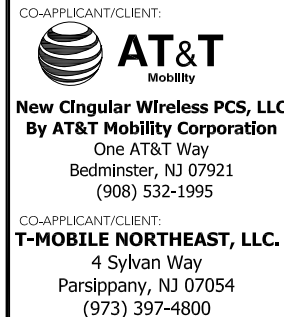
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REFERENCE DRAWINGS:
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2) SITE IMPROVEMENTS AND LOCATIONS OF PROPERTY LINES ARE BASED A BOUNDARY SURVEY PREPARED BY RICHARD M. GARDELL, LLC # 36729, GARDELL LAND SURVEYING, LLC, 57 KELLER AVENUE, ROCKAWAY, NEW JERSEY, 07866 TITLE "BOUNDARY SURVEY," BLOCK 212, LOT 2.01, CRANFORD TOWNSHIP, UNION COUNTY, NEW JERSEY, DATED 4-2-2019



APPLICANT/CLIENT:



SHEET TITLE:	
SITE PLAN & ZONING INFORMATION	
PROJECT No:	
VER3818 W-1128 NJ09961B	
SITE DESIGNATION:	
UNION COUNTY COLLEGE	
DRAWN BY:	DATE:
AMA	11/28/18
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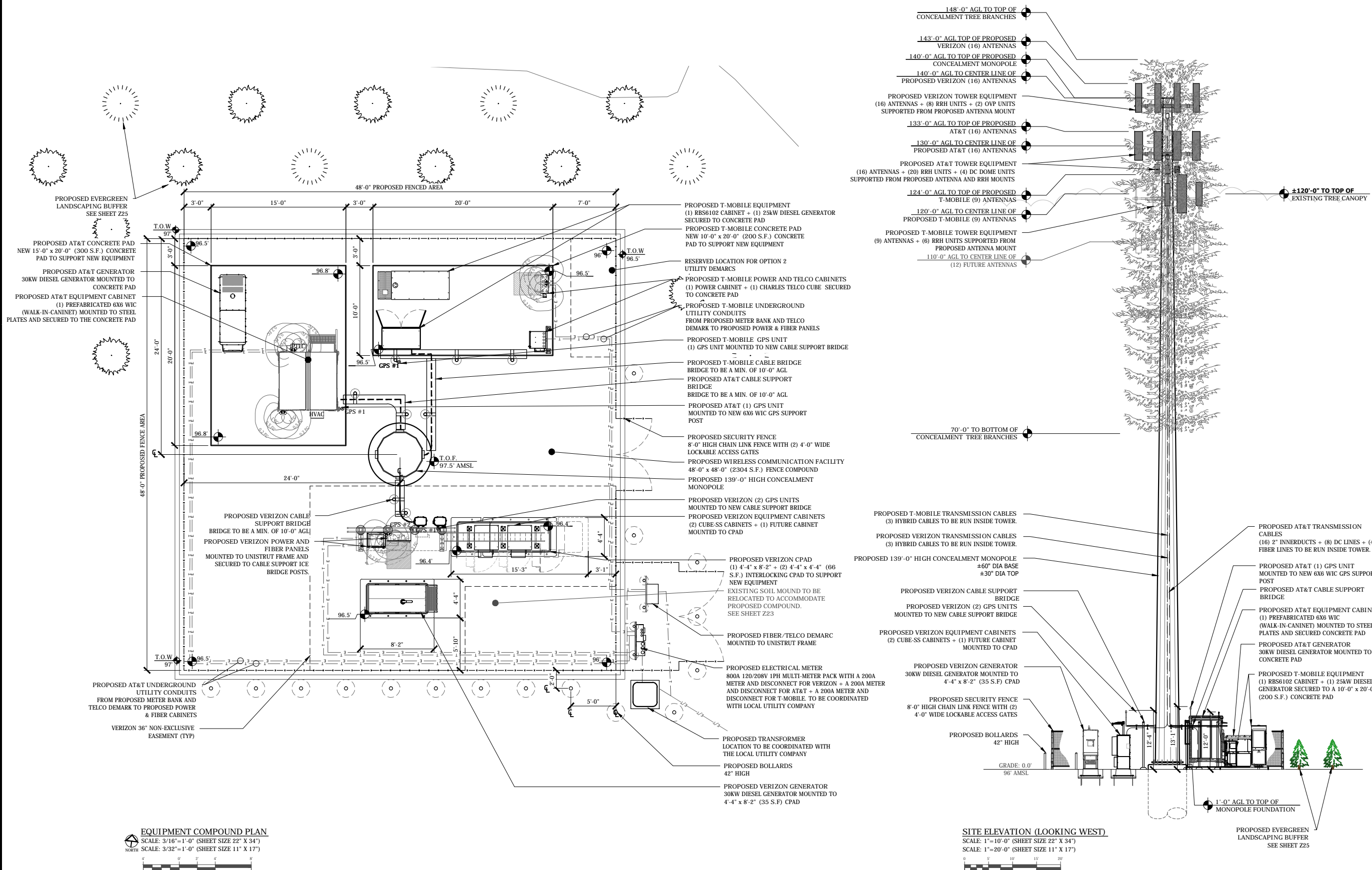
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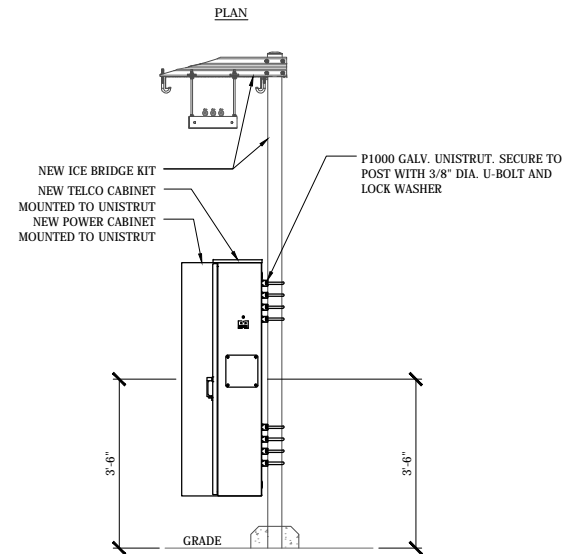
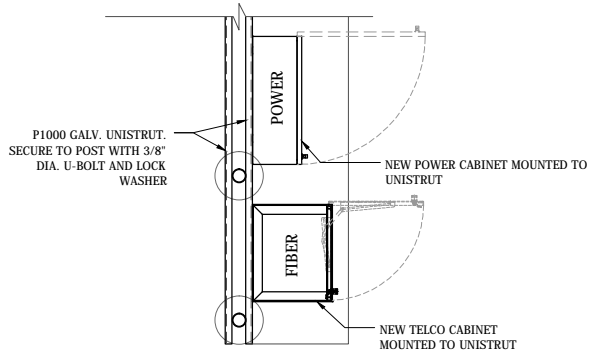
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DRAWN BY: AMA	DATE: 11/28/18
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SHEET No:

Z6





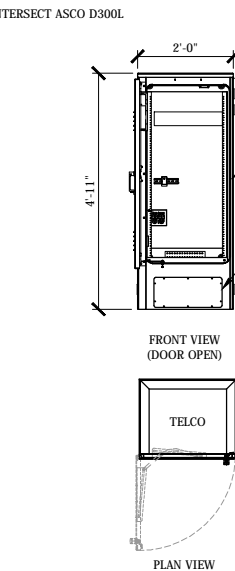
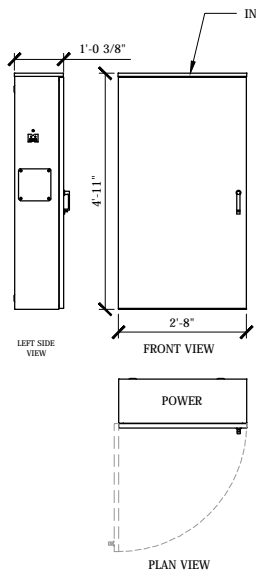
SECTION

POWER/TELCO CABINET MOUNTING DETAIL

SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")

INTERSECT ASCO D300L SERIES POWER TRANSFER LOAD CENTER

- 1) POWER TRANSFER LOAD CENTER CONSTRUCTED IN ACCORDANCE WITH UL 67 STANDARD FOR PANEL BOARDS SUITABLE FOR USE AS SERVICE EQUIPMENT.
- 2) AUTOMATIC POWER TRANSFER SWITCH: ASCO D300, 2 POLE, 200 AMP, 240 VAC MAX. UL LISTED TO UL 1008 STANDARD FOR TRANSFER SWITCHING EQUIPMENT.
- 3) PANELBOARD: SQUARE-D NQ, 225 AMPS MAX., 240V, SINGLE PHASE WITH 100% RATED NEUTRAL, 42 CIRCUITS, ACCEPTS BOLT-ON OR PLUG-ON BRANCH DEVICES.
- 4) ENCLOSURE:
TYPE 3R LISTED TO UL 50/50E. SINGLE COMPARTMENT WALL MOUNT. PROVIDES TYPE 1 PROTECTION WITH EXTERIOR DOOR OPEN AND SWING PANEL CLOSED.
BOX & DOORS - CONSTRUCTED OF 0.095 THICK ALUMINUM ALLOY (5052-H32).
FINISHES - ALL INTERIOR AND EXTERIOR SURFACES: TEXTURED POLYESTER POWDER COAT, LIGHT GRAY (RAL 7035)
- 5) GROUNDING PROVISIONS FOR NORMAL, EMERGENCY & LOAD.
- 6) OVERALL DIMENSIONS: 59"H X 32"W X 12.3"D
- 7) WEIGHT APPROX. 165LBS

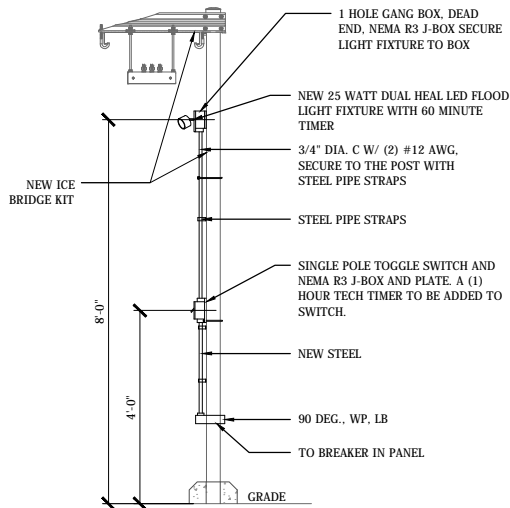


INTERSECT T313589-DC48-HE TELCO ENCLOSURE

- 1) ENCLOSURE:
TYPE 3R LISTED TO UL 50/50E.
FINISH: POWDER COATED ALUMINUM
- 2) PAD-LOCKABLE DOOR HANDLE
- 3) PLYWOOD BACKBOARD
- 4) THERMOSTATICALLY CONTROLLED FAN
-48V DC WITH HEAT STRIP
- 5) OVERALL DIMENSIONS: 59"H X 24"W X 20"D
- 6) WEIGHT APPROX. 165LBS

INTERSECT POWER/TELCO CABINET DETAIL

SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")



WORK LIGHT MOUNTING DETAIL & SPECIFICATIONS

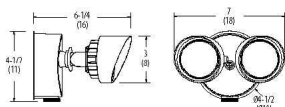
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")



OLF 2RH LED



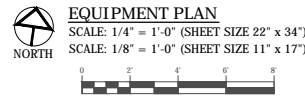
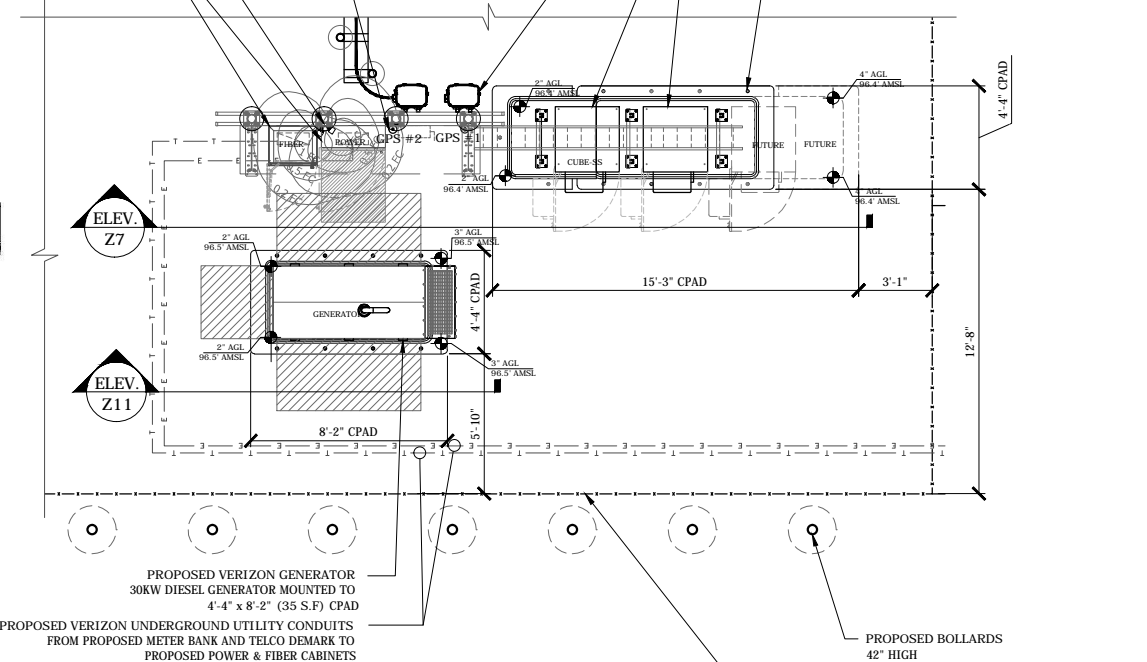
Specifications
Width: 7.00"
(17.8 cm)
Height: 4.5"
(11.4 cm)
Depth: 6.25"
(15.9 cm)
Weight: 1.5 lbs.
(0.68 kg)



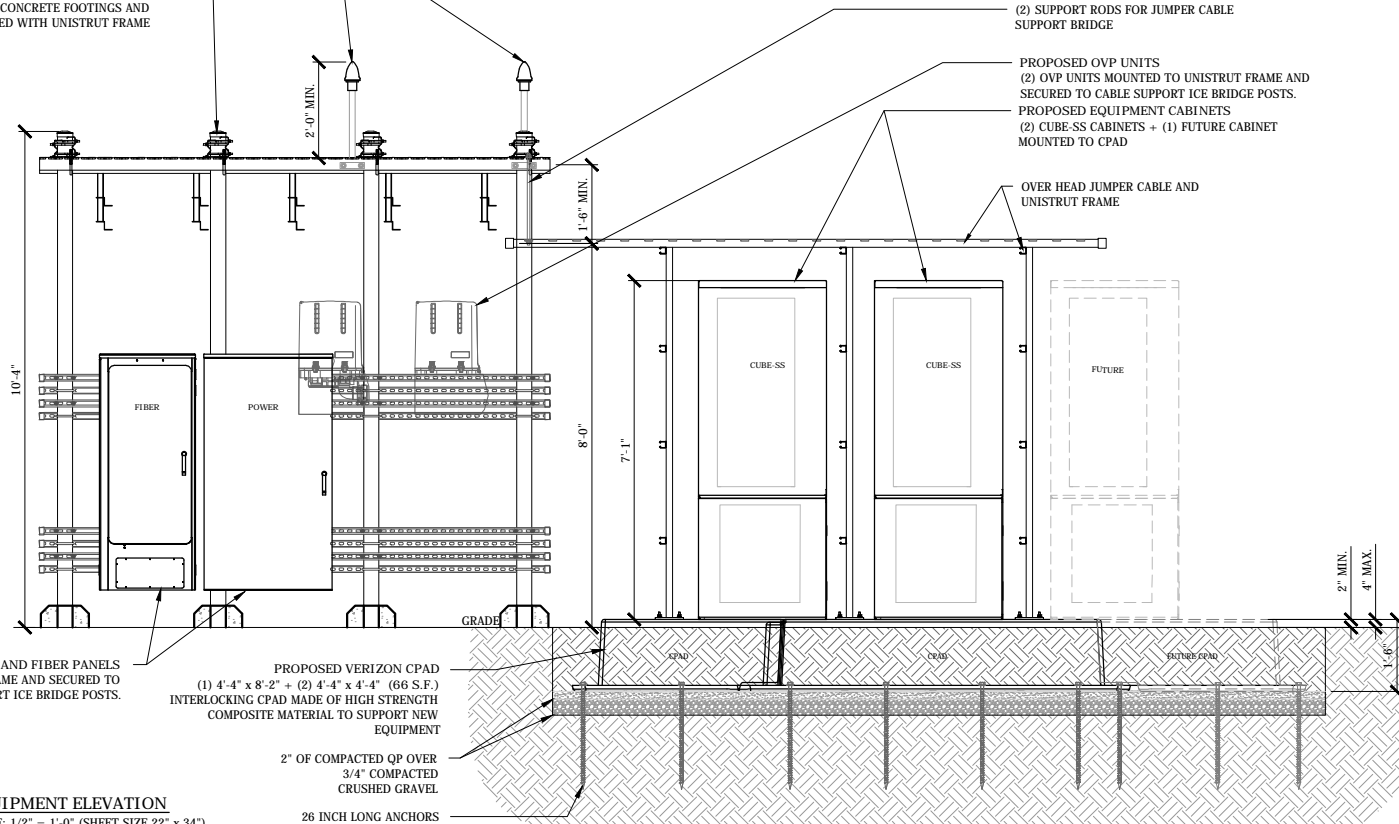
LED lighting facts	
A Program of the U.S. DOE	
Light Output (Lumens)	2159
Watts	25.31
Lumens per Watt (Efficacy)	85.3
Color Accuracy	70
Color Rendering Index (CRI)	
Light Color	4000 (Bright White)
Correlated Color Temperature (CCT)	
Warm White	Bright White
2700K	3000K
	4500K
	Daylight
	5000K

NOTE:
WORK LIGHT TO BE POINTED DOWNWARD

- PROPOSED (2) GPS UNITS MOUNTED TO NEW CABLE SUPPORT ICE BRIDGE
- PROPOSED WORK LIGHT MOUNTED TO PROPOSED STEEL POST.
- PROPOSED POWER AND FIBER PANELS MOUNTED TO UNISTRUT FRAME AND SECURED TO CABLE SUPPORT ICE BRIDGE POSTS.
- PROPOSED OVP UNITS (2) OVP UNITS MOUNTED TO UNISTRUT FRAME AND SECURED TO CABLE SUPPORT ICE BRIDGE POSTS.
- PROPOSED EQUIPMENT CABINETS (2) CUBE-SS CABINETS + (1) FUTURE CABINET MOUNTED TO CPAD
- PROPOSED VERIZON CPAD (1) 4'-4" x 8'-2" + (2) 4'-4" x 4'-4" (66 S.F.) INTERLOCKING CPAD TO SUPPORT NEW EQUIPMENT



- PROPOSED (2) GPS UNITS MOUNTED TO NEW CABLE SUPPORT ICE BRIDGE
- PROPOSED CABLE SUPPORT ICE BRIDGE KIT MOUNTED IN CONCRETE FOOTINGS AND INSTALLED WITH UNISTRUT FRAME



EQUIPMENT ELEVATION

SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")



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Mount Olive, NJ 07828
O 973-726-7164 | F 973-726-7204
fcolasurdo@fcarchitectsinc.com
Frank Colasurdo Architects, Inc

Frank Colasurdo, RA Date

NJ Lic. #13753
NY Lic. #029379-1
PA Lic. #RA03655
MA Lic. #32346
MD Lic. #19079

APPLICANT/CLIENT:

verizon
New York SMSA Limited Partnership
D/B/A Verizon Wireless
400 Warren Corporate Center Dr.
Building D
Warren, NJ 07059
(908) 256-7000

CO-APPLICANT/CLIENT:

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Mobility
New Cingular Wireless PCS, LLC
By AT&T Mobility Corporation
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(908) 532-1995

CO-APPLICANT/CLIENT:
T-MOBILE NORTHEAST, LLC.
4 Sylvan Way
Parsippany, NJ 07054
(973) 397-4800

PROJECT:
WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"
1033 SPRINGFIELD AVE,
CRANFORD, NEW JERSEY 07016
BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4
& 5, BLOCK: 122 LOT: 5
UNION COUNTY

3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/19
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/19
1	FINAL ZONING DRAWINGS	04/12/19
0	PRELIMINARY ZONING DRAWINGS	11/28/18
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:
VERIZON EQUIPMENT PLAN AND ELEVATION

PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
UNION COUNTY COLLEGE

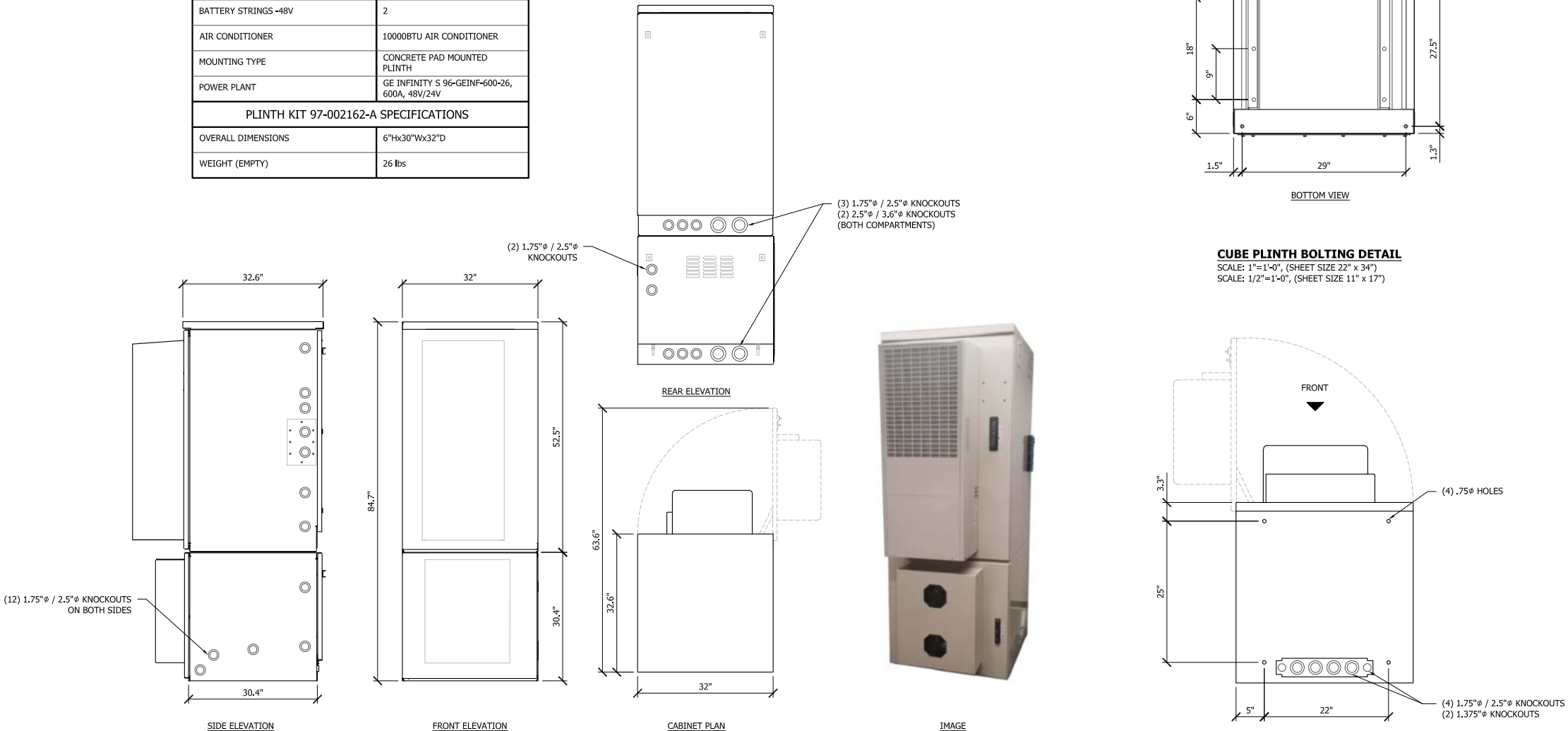
DRAWN BY: AMA DATE: 11/28/18

SHEET No:

CHARLES INDUSTRIES CUBE-SS4B228LX1

CONFIGURATION SPECIFICATIONS

CUBE-SS4B228LX1 SPECIFICATIONS	
OVERALL DIMENSIONS	84"Hx32"Wx32"D
EQUIPMENT RACK SPACE	28RU OF HORIZONTAL SPACE 3RU OF VERTICAL SPACE
WEIGHT (EMPTY)	715 lbs
COLOR	OFF-WHITE
BATTERY STRINGS +48V	2
AIR CONDITIONER	10000BTU AIR CONDITIONER
MOUNTING TYPE	CONCRETE PAD MOUNTED PLINTH
POWER PLANT	GE INFINITY S 96-GEINF-600-26, 600A, 48V/24V
PLINTH KIT 97-002162-A SPECIFICATIONS	
OVERALL DIMENSIONS	6"Hx30"Wx32"D
WEIGHT (EMPTY)	26 lbs



CUBE SS4B228LX1 DETAILS
SCALE: 3/4"=1'-0", (SHEET SIZE 22" x 34")
SCALE: 3/8"=1'-0", (SHEET SIZE 11" x 17")

CUBE SS4B228LX1 BOLTING DETAIL
SCALE: 1"=1'-0", (SHEET SIZE 22" x 34")
SCALE: 1/2"=1'-0", (SHEET SIZE 11" x 17")

Frank Colasurdo, RA Date
NJ Lic. #13753
NY Lic. #029379-1
PA Lic. #RA403655
MA Lic. #32346
MD Lic. #19079

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CO-APPLICANT/CLIENT:
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New Cingular Wireless PCS, LLC
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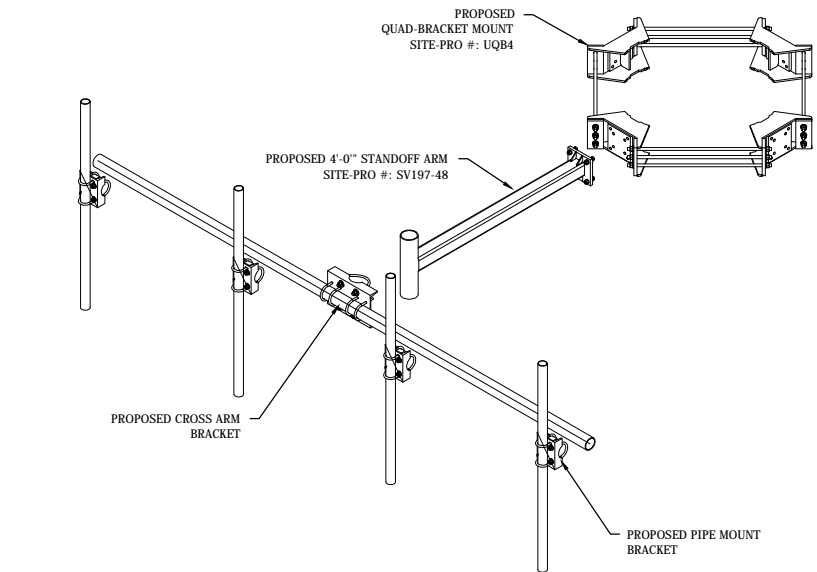
SHEET TITLE:
VERIZON EQUIPMENT CABINET SPECIFICATIONS

PROJECT No.:
**VER3818
W-1128
NJ09961B**

SITE DESIGNATION:
UNION COUNTY COLLEGE

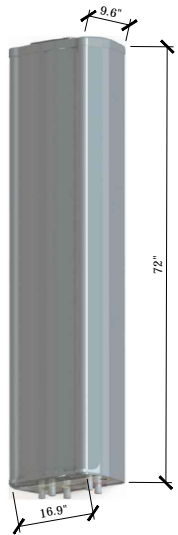
DRAWN BY: AMA DATE: 11/28/18

SHEET No:
Z8



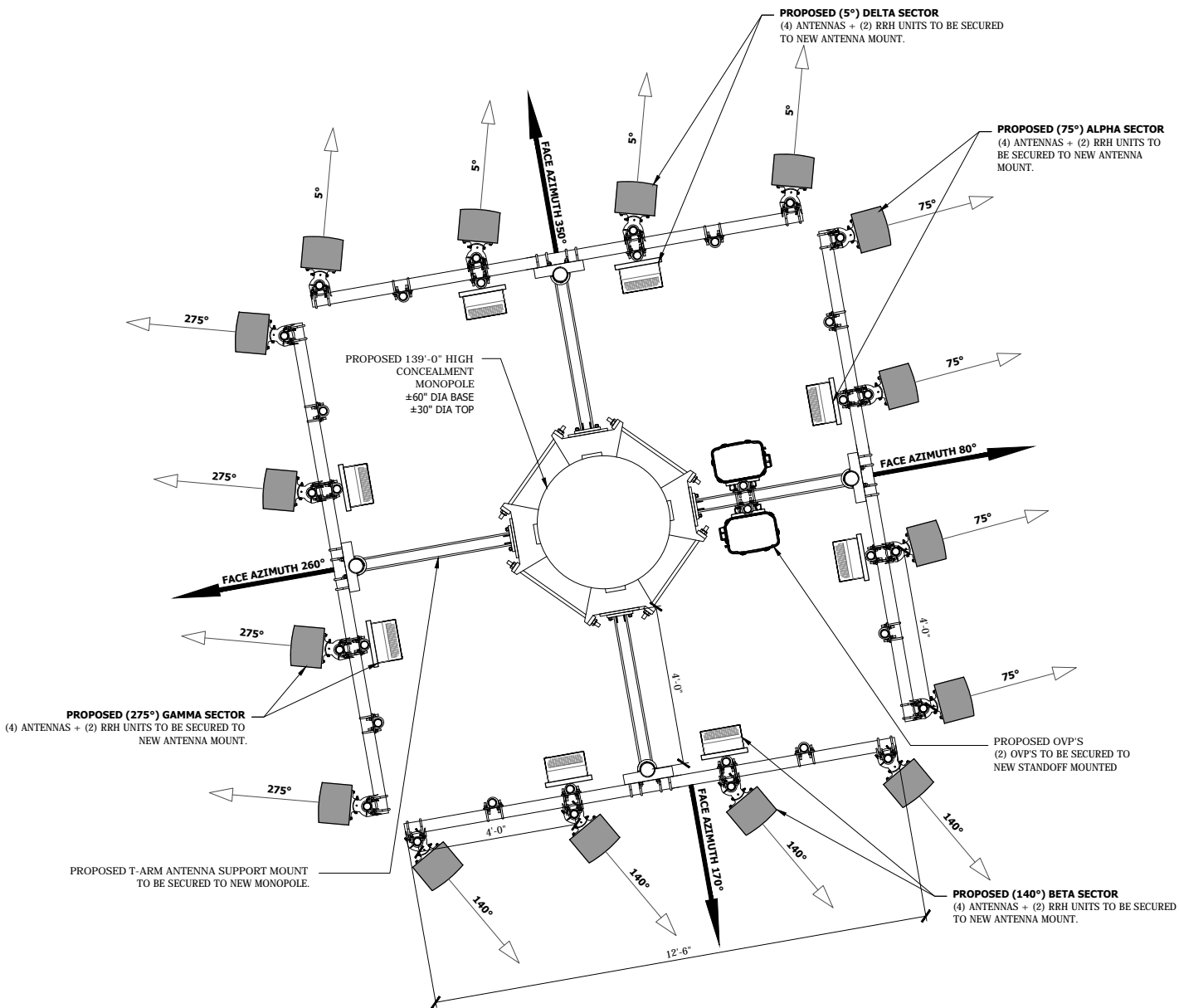
ANTENNA MOUNT EXPLODED ASSEMBLY ISO (TYP OF 4 SECTORS)
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")

Quintel
New Dimensions in Wireless™
QS6456-5



Mechanical Characteristics	
Dimensions	L 72"(1828mm) x W 16.9"(429mm) x D 9.6"(245mm)
Weight (excl mounting brackets)	82lbs (37.2kg)
No. of Connectors	6x 4.3-10 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Effective Projected Area	Front: 4.1ft² (0.38m²) Side: 2.7 ft² (0.25m²)
Wind Load @160km/h (45m/s)	Front: 995N (224 lbs), Side: 371N (83.5 lbs)
Operating Temperature	-40°C to +65°C

ANTENNA SPECIFICATIONS
NOT TO SCALE



ANTENNA PLAN
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")

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MA Lic. #32346
MD Lic. #19079

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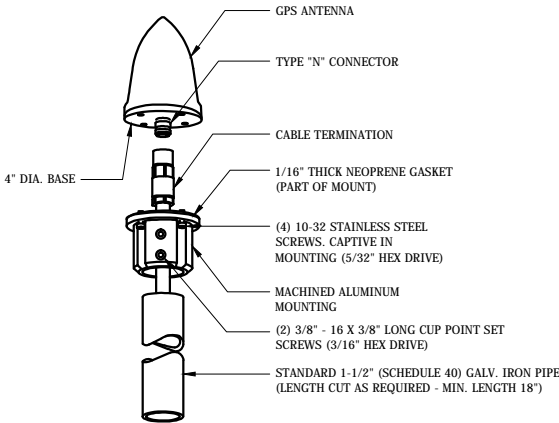
SHEET TITLE:
VERIZON ANTENNA PLAN AND SPECIFICATIONS

PROJECT No:
**VER3818
W-1128
NJ09961A**

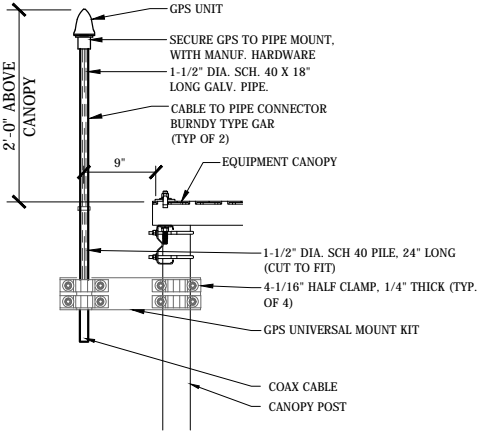
SITE DESIGNATION:
UNION COUNTY COLLEGE

DRAWN BY: AMA DATE: 11/28/18

SHEET No:
Z9



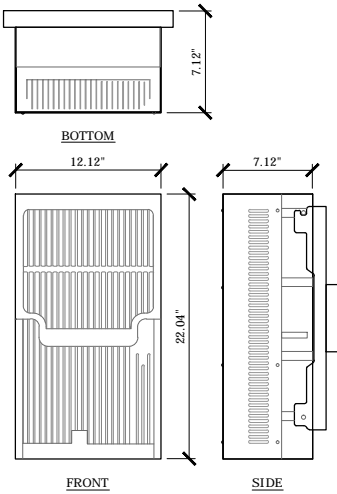
ENLARGED GPS UNIT DETAIL
NO SCALE



GPS MOUNTING DETAIL
SCALE: 1" = 1'-0" (SHEET SIZE 22"X34")
SCALE: 1/2" = 1'-0" (SHEET SIZE 11"X17")

RRH DETAILS: (B2/66a 320W AHFIC)

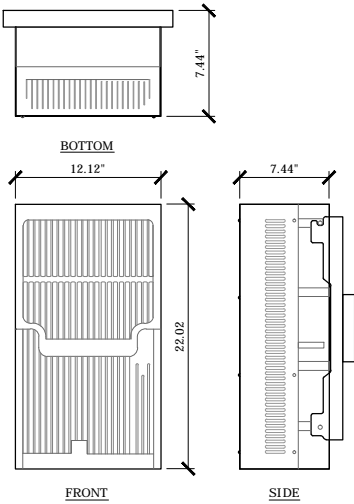
- DIMENSIONS: 12.12" W x 7.12" D x 22.04" H (WITH NO SOLAR SHIELD)
- WEIGHT (WITHOUT BRACKETS) 79.4 LBS
- MOUNTING: POLE OR WALL MOUNTABLE
- RF OUTPUT POWER
 - 40W PER TX, RF POWER SHARING MODE UP TO 60W(B66a)/ 20W (B2); 320W PER RRH
- DC VOLTAGE:
 - 48V / -36V TO -60V
- DC POWER CONSUMPTION
 - 688W (ETSI 24H AVG-8X20W MODE)
- ANTENNA PORTS: 8 PORTS , 4.3-10+



RRH (HIGH BAND) SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (B5/13 320W AHBCC)

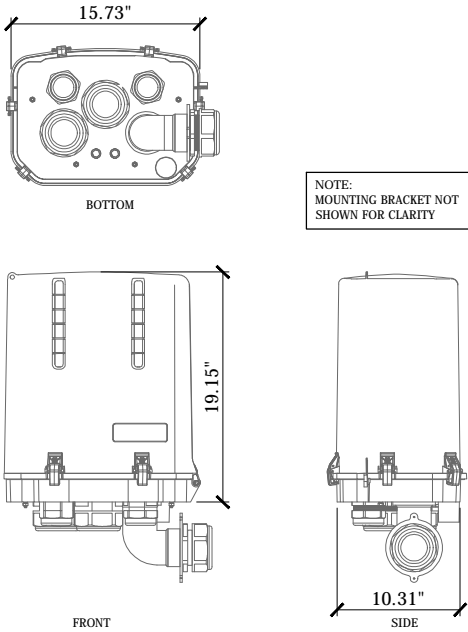
- DIMENSIONS: 12.12" W x 7.44" D x 22.02" H (WITH SOLAR SHIELD)
- WEIGHT (WITHOUT BRACKETS) 83.77 LBS
- MOUNTING: POLE OR WALL MOUNTABLE
- RF OUTPUT POWER
 - 40W PER BAND, 80W PER TX
- DC VOLTAGE:
 - 48V / -36V TO -60V
- DC POWER CONSUMPTION
 - 688W (ETSI 24H AVG - 4X20W PER BAND, 40W PER TX PORT)
- ANTENNA PORTS: 4 PORTS , 4.3-10+



RRH (LOW BAND) SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

OVP DETAILS: (RxxDC-3315-PF-48)

- DIMENSIONS (WITHOUT BRACKET): 15.73" W X 10.31" D X 19.15" H
- WEIGHT (WITHOUT BRACKETS) 32 LBS
- MOUNTING: POLE OR WALL MOUNTABLE
- NOMINAL OPERATING VOLTAGE: 48 VDC
- NOMINAL DISCHARGE CURRENT: 20KA 8/20 US
- MAXIMUM SURGE CURRENT: 60 KA 8/20 US
- VOLTAGE PROTECTION: 400V
- FIBER CONNECTION METHOD: LC-LC SINGLE MODE
- SUPPRESSION CONNECTION METHOD: COMPRESSION LUG, #20-#6 AWG



EXTERIOR OVP SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

Frank Colasurdo, RA Date

NJ Lic. #13753
NY Lic. #029379-1
PA Lic. #RA403655
MA Lic. #32346
MD Lic. #19079

APPLICANT/CLIENT:

verizonwireless
New York SMSA Limited Partnership
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CO-APPLICANT/CLIENT:
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PROJECT:
WIRELESS COMMUNICATION FACILITY
"WESTFIELD 4"
1033 SPRINGFIELD AVE,
CRANFORD, NEW JERSEY 07016
BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4
& 5, BLOCK: 122 LOT: 5
UNION COUNTY

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0	PRELIMINARY ZONING DRAWINGS	11/28/18
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:
VERIZON RRH'S & GPS DETAILS AND SPECIFICATIONS

PROJECT No:
VER3818
W-1128
NJ09961A

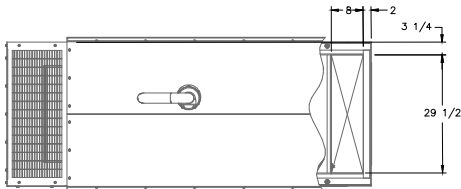
SITE DESIGNATION:
UNION COUNTY COLLEGE

DRAWN BY: AMA DATE: 11/28/18

SHEET No:

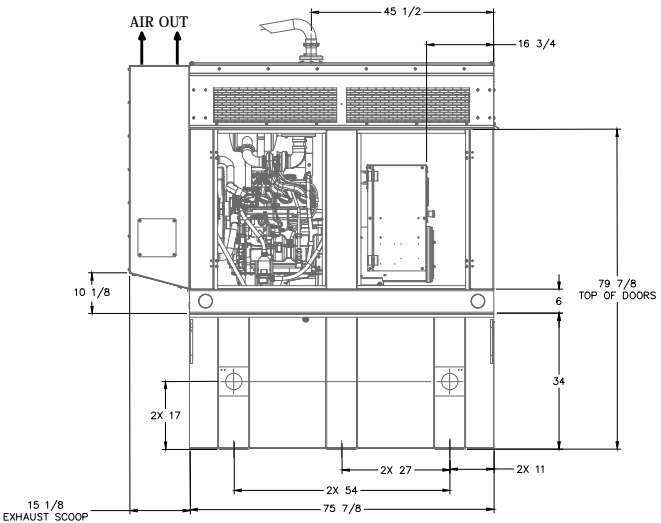
30 kW DIESEL GENERATOR 120/208V, 1 PHASE

GENERATOR TO BE INSTALLED WITH SOUND ATTENUATION ENCLOSURE AND CRITICAL GRADE MUFFLER ASSEMBLY

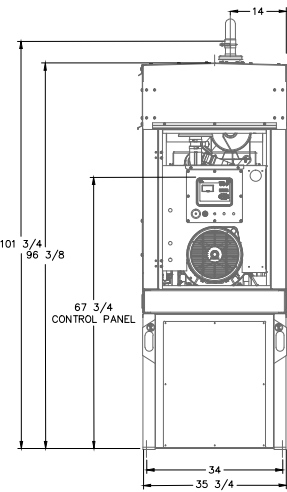


- NOTE:
1. APPROXIMATE WEIGHT (WET): 3350 LB
 2. FUEL TANK: UL LISTED DOUBLE WALL WITH 125% CONTAINMENT
 3. FUEL TANK CAPACITY: 210 GALLONS
 4. ENCLOSURE: SINGLE SIDE SERVICE RIGHT SIDE, STEEL, 190 MPH WIND RATED
 5. SOUND LEVEL: 64 dB(A) at 7m
 6. VERIZON PART NUMBERS
DG03RJ096V1M00012
DG03RJ096V1M00013
DG03RJ096V1M00014

PLAN VIEW

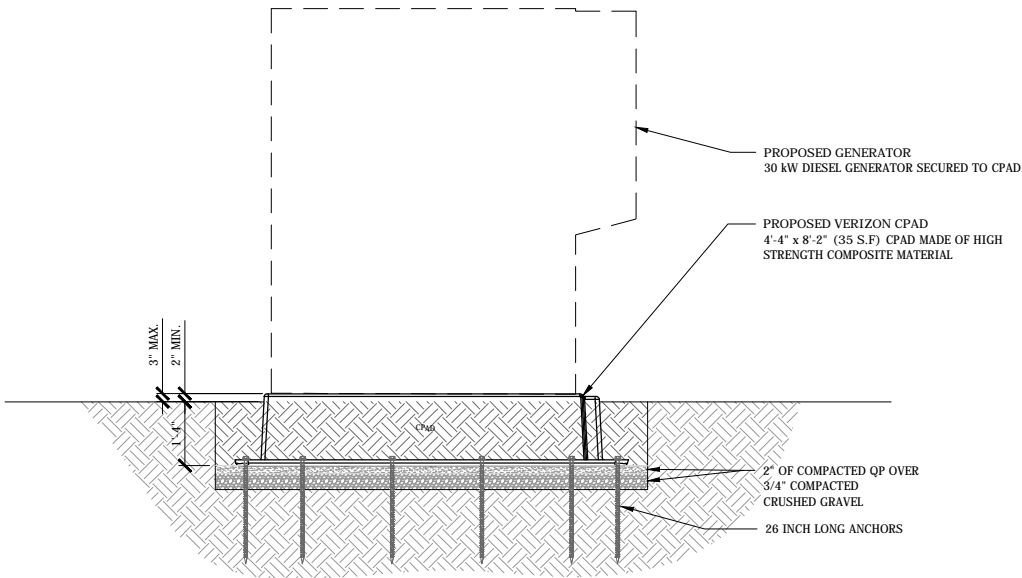


FRONT VIEW

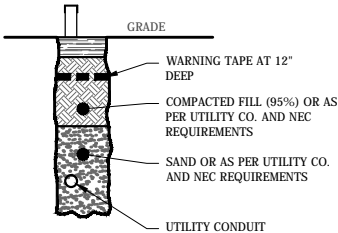


SIDE VIEW

GENERATOR DETAIL
SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34")
SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



GENERATOR CONCRETE PAD DETAIL
SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34")
SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



UTILITY TRENCH DETAIL
SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34")
SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")

FCA ARCHITECTS
350 Clark Drive | Suite 304
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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:
**VERIZON
GENERATOR
SPECIFICATIONS**

PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
**UNION COUNTY
COLLEGE**

DRAWN BY: DATE:
AMA 11/28/18

SHEET No:
Z11

Frank Colasurdo, RA Date

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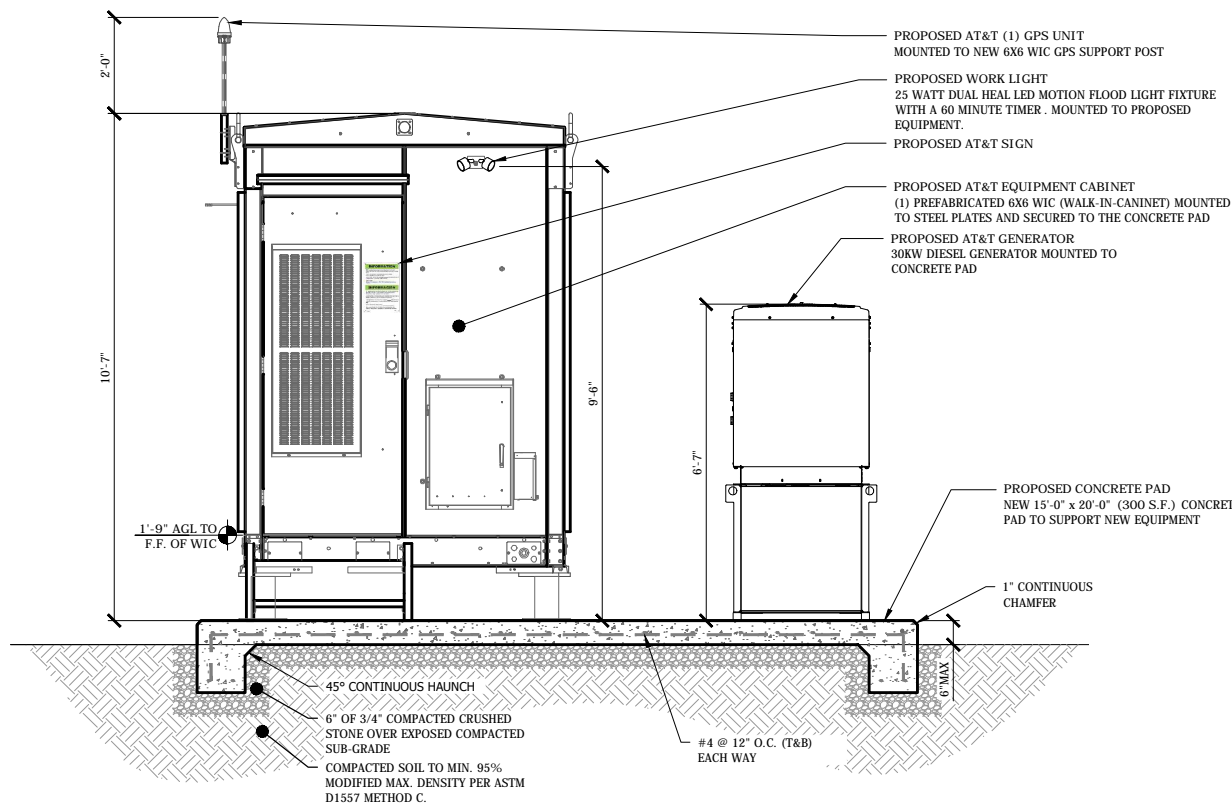
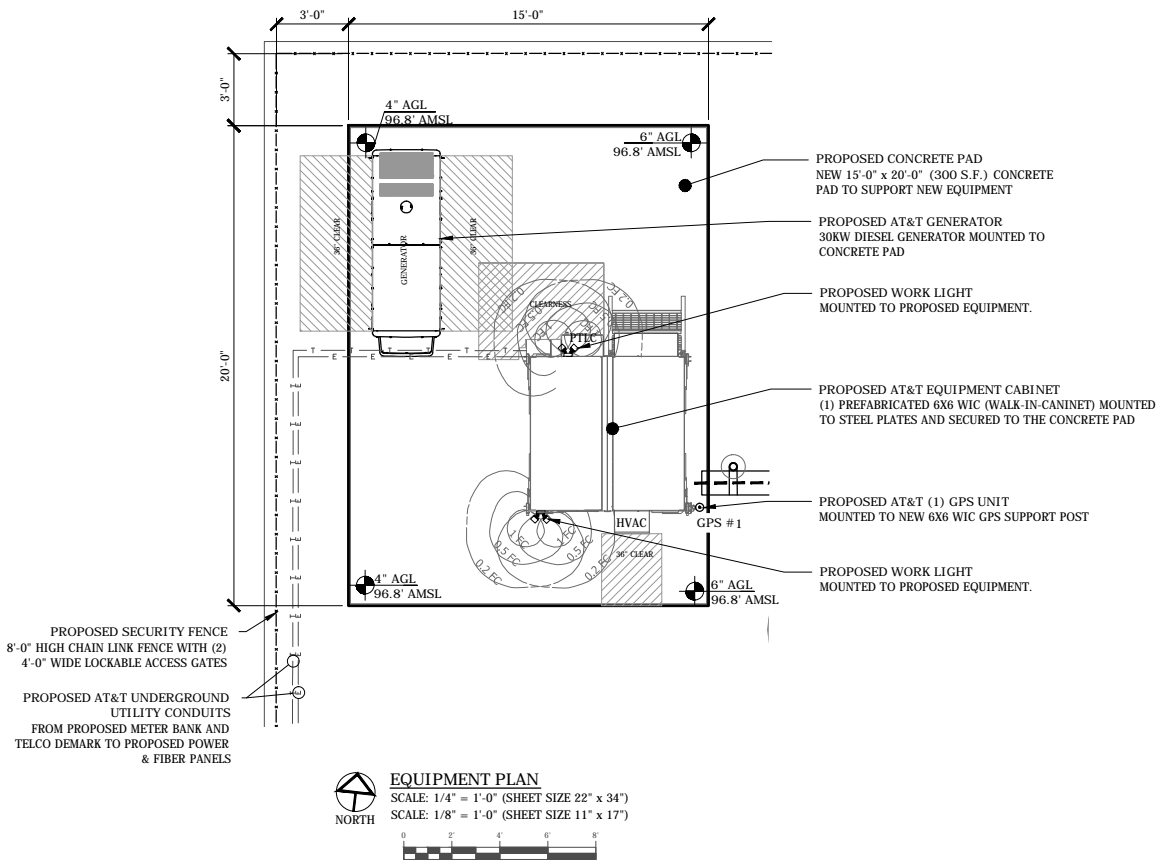
ISSUE NO. DESCRIPTION OF CHANGE ISSUE DATE

SHEET TITLE:

**AT&T
EQUIPMENT PLAN
AND ELEVATION**PROJECT No:
**VER3818
W-1128
NJ09961A**SITE DESIGNATION:
**UNION COUNTY
COLLEGE**

DRAWN BY: AMA DATE: 11/28/18

SHEET No:

Z12**EQUIPMENT ELEVATION**

SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")

SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")

**OLF 2RH LED****Specifications**

Width: 7.00"
(17.8 cm)

Height: 4.5"
(11.4 cm)

Depth: 6.25"
(15.9 cm)

Weight: 1.5 lbs.
(680 g)

6-1/4" (16)

4-3/8" (11)

3"

7" (18)

1/2" (13)

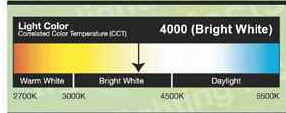


Light Output (Lumens) 2159

Watts 25.31

Lumens per Watt (Efficacy) 85.3

Color Accuracy
Color Rendering Index (CRI) 70

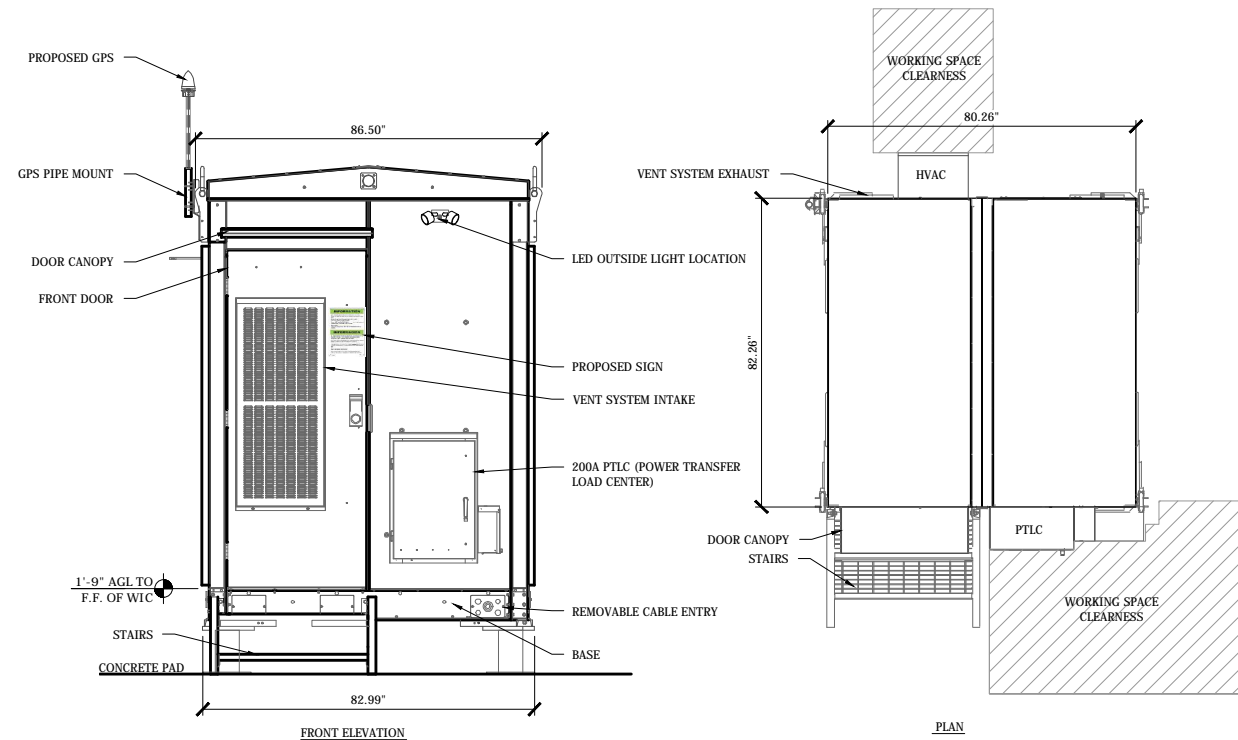


NOTE:
WORK LIGHT TO BE POINTED DOWNWARD

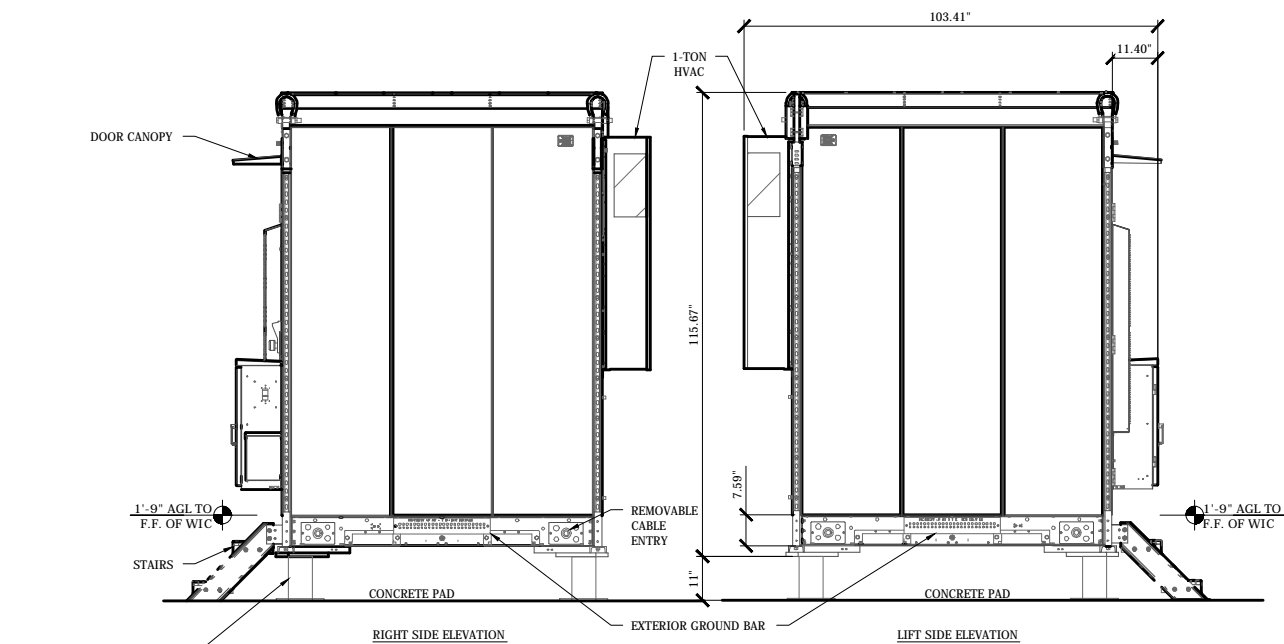
WORK LIGHT SPECIFICATIONS

NO SCALE

VERTIV 6X6 WIC (WALK-IN-CLOSET) XTE 802 SERIES SPECIFICATIONS

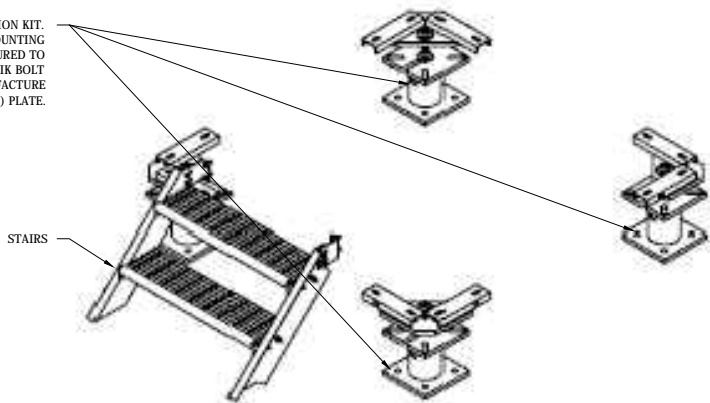


ISOMETRIC IMAGE



6X6 WIC DETAILS
SCALE: 1/2"=1'-0", (SHEET SIZE 22" x 34")
SCALE: 1/4"=1'-0", (SHEET SIZE 11" x 17")

VERTIV CONCRETE MOUNT FOUNDATION KIT.
11" TALL EXTENSIONS WITH MOUNTING PLATES. PLATES TO BE SECURED TO CONCRETE PAD WITH HILTI KWIK BOLT ANCHORS, PER MANUFACTURE SPECIFICATIONS, (4) PLATE.



CONCRETE MOUNT KIT DETAIL
NOT TO SCALE

FCA ARCHITECTS
350 Clark Drive | Suite 304
Mount Olive, NJ 07828
O 973-726-7164 | F 973-726-7204
fcolasurdo@fcarchitectsinc.com
Frank Colasurdo Architects, Inc

Frank Colasurdo, RA Date
NJ Lic. #13753
NY Lic. #029379-1
PA Lic. #RA403655
MA Lic. #32346
MD Lic. #19079

APPLICANT/CLIENT:

verizon wireless
New York SMSA Limited Partnership
D/B/A Verizon Wireless
400 Warren Corporate Center Dr.
Building D
Warren, NJ 07059
(908) 256-7000

CO-APPLICANT/CLIENT:
AT&T Mobility

New Cingular Wireless PCS, LLC
By AT&T Mobility Corporation
One AT&T Way
Bedminster, NJ 07921
(908) 532-1995

CO-APPLICANT/CLIENT:
T-MOBILE NORTHEAST, LLC.
4 Sylvan Way
Parsippany, NJ 07054
(973) 397-4800

PROJECT:
WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"
1033 SPRINGFIELD AVE,
CRANFORD, NEW JERSEY 07016
BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4
& 5, BLOCK: 122 LOT: 5
UNION COUNTY

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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:
**AT&T
EQUIPMENT
CABINET
SPECIFICATIONS**

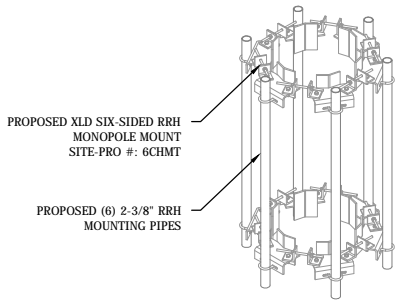
PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
**UNION COUNTY
COLLEGE**

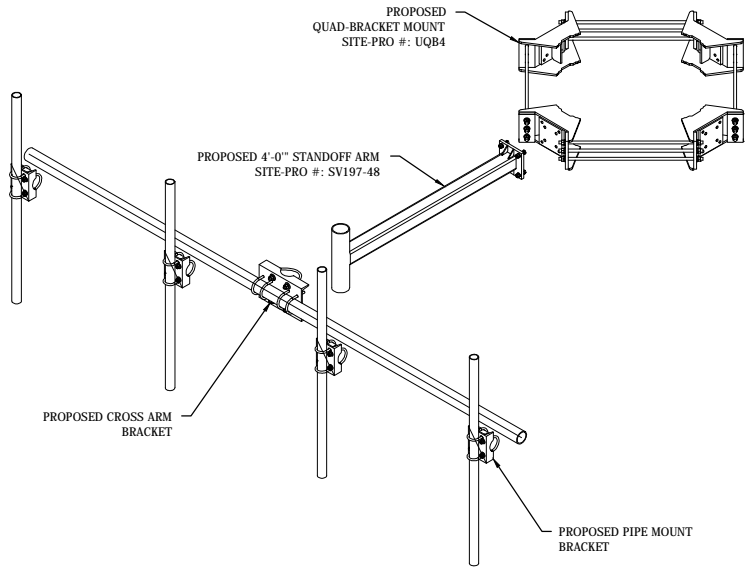
DRAWN BY: AMA DATE: 11/28/18

SHEET No:

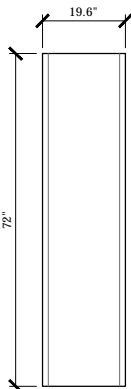
Z13



RRH MOUNT ISOMETRIC
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")



ANTENNA MOUNT EXPLODED ASSEMBLY ISO (TYP OF 4 SECTORS)
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")



NNHH-65B-R4



8-port sector antenna, 4x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 4x RETs

Dimensions

Length	1828.0 mm		72.0 in
Width	498.0 mm		19.6 in
Depth	197.0 mm		7.8 in
Net Weight, without mounting kit	35.1 kg		77.4 lb

ANTENNA SPECIFICATIONS
NOT TO SCALE

PROPOSED 139'-0" HIGH CONCEALMENT MONOPOLE
±60" DIA BASE
±30" DIA TOP

PROPOSED RRH MOUNT
MOUNTED BELOW PROPOSED ANTENNA MOUNT
RRH MOUNT TO BE SECURED TO NEW MONOPOLE.

PROPOSED RRH'S
(12) RRH'S TO BE BOOK MOUNTED AND SECURED
TO RRH MOUNT.

RRH PLAN
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")

PROPOSED (340°) DELTA SECTOR
(4) ANTENNAS + (2) RRH UNITS TO BE SECURED TO
NEW ANTENNA MOUNT.

PROPOSED 139'-0" HIGH CONCEALMENT MONOPOLE
±60" DIA BASE
±30" DIA TOP

PROPOSED (250°) GAMMA SECTOR
(4) ANTENNAS + (2) RRH UNITS TO BE SECURED TO
NEW ANTENNA MOUNT.

PROPOSED T-ARM ANTENNA SUPPORT MOUNT
TO BE SECURED TO NEW MONOPOLE.

ANTENNA PLAN
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")

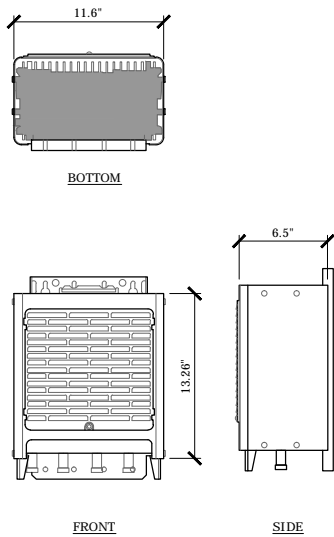
PROPOSED (70°) ALPHA SECTOR
(4) ANTENNAS + (2) RRH UNITS TO BE SECURED TO
NEW ANTENNA MOUNT.

PROPOSED DC6 DOME
(4) DC6 DOMES TO BE SECURED
TO NEW STANDOFF MOUNTED

PROPOSED (150°) BETA SECTOR
(4) ANTENNAS + (2) RRH UNITS TO BE SECURED TO
NEW ANTENNA MOUNT.

RRH DETAILS: (B5 RRH4T4R 160W - AHCA)

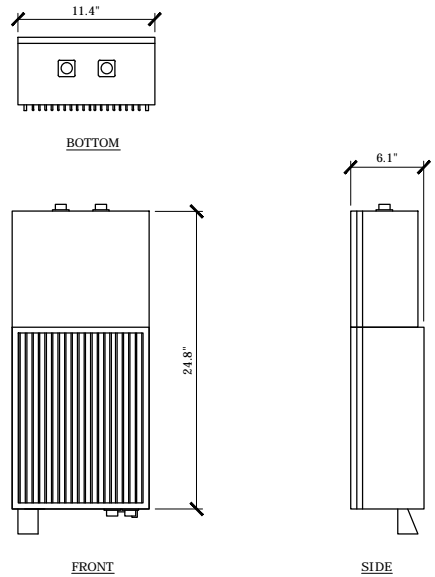
- DIMENSIONS: 13.26" H x 11.6" W x 6.5" D (CORE)
- WEIGHT (WITHOUT BRACKETS) 36.8 LBS
- MOUNTING: POLE, WALL MOUNTABLE, RAS, VERTICAL OR HORIZONTAL
- BOOK MOUNT
- RF OUTPUT POWER
 - 4T 4R 40W/ 2T4R 60W
- DC VOLTAGE:
 - 48V / -36V TO -60V
- DC POWER CONSUMPTION
 - 207W @ (ETSI 24H AVG - 4X20W MODE)
- ANTENNA PORTS: 4/4 TX/RX



RRH 850 SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RH DETAILS: (RRH2X40-07L-DE)

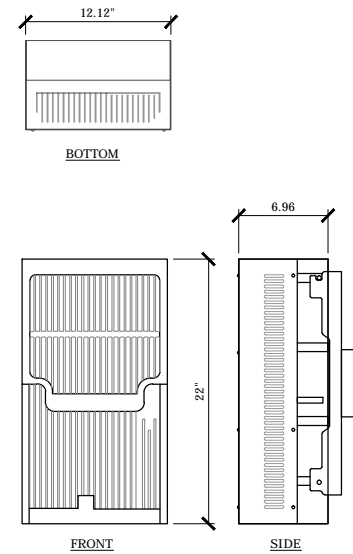
- DIMENSIONS: 24.8" H x 11.4" W x 6.1" D (WITH SOLAR SHIELD)
- WEIGHT (WITHOUT BRACKETS) 52 LBS
- MOUNTING: POLE OR WALL MOUNTABLE
- RF OUTPUT POWER
 - 2X40W OR 2X30W
- DC VOLTAGE:
 - 48V
- DC POWER CONSUMPTION
 - 300W (AT 2X40W CONTINUOUS RF POWER)
 - 260W (AT 2X30W CONTINUOUS RF POWER)



RRH 700 DE SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (B12/B14 RRH4T4R 320W - AHLBA)

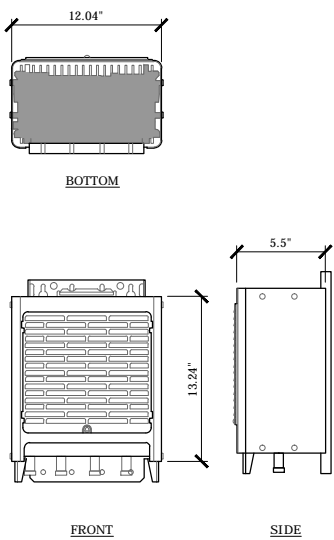
- DIMENSIONS: 22" H x 12.12" W x 6.96" D (WITH SOLAR SHIELD)
- WEIGHT (WITHOUT BRACKETS) 77 LBS
- MOUNTING: POLE, WALL MOUNTABLE, RAS, VERTICAL OR HORIZONTAL
- BOOK MOUNT
- RF OUTPUT POWER
 - 80W PER TX PORT SHARED BETWEEN BANDS (4X40W PER BAND)
- DC VOLTAGE:
 - 48V / -36V TO -60V
- DC POWER CONSUMPTION
 - 525W (ETSI 24H AVG - 4X20W PER BAND, 40W PER TX PORT)
- ANTENNA PORTS: 4 PORTS TX/RX



RRH LOW BAND SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (B30 RRH4T4R 100W - AHNA)

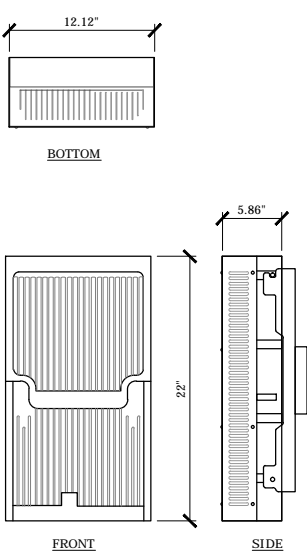
- DIMENSIONS: 13.24" H x 12.04" W x 5.5" D (CORE)
- WEIGHT (WITHOUT BRACKETS) 34.17 LBS
- MOUNTING: POLE, WALL MOUNTABLE
- RF OUTPUT POWER
 - 4T 4R 25W/ TX
- DC VOLTAGE:
 - 48V / -36V TO -60V
- DC POWER CONSUMPTION
 - ESTIMATED 515W @100%
- ANTENNA PORTS: 4/4 TX/RX



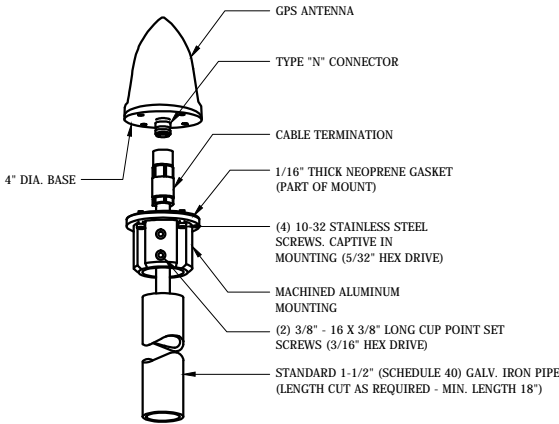
RRH 2100 SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (B25/B66 RRH4T4R 320W - AHF1B)

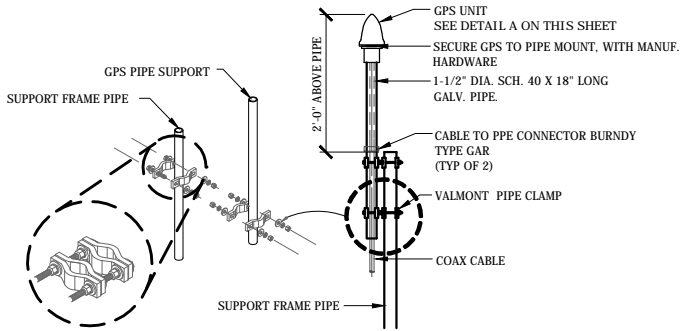
- DIMENSIONS: 22" H x 12.12" W x 5.86" D (WITH SOLAR SHIELD)
- WEIGHT (WITHOUT BRACKETS) 60 LBS
- MOUNTING: POLE, WALL MOUNTABLE, RAS, VERTICAL OR HORIZONTAL
- BOOK MOUNT
- RF OUTPUT POWER
 - BAND 25 - 4X40W, BAND 66 - 4X40W
- DC VOLTAGE:
 - 48V / -36V TO -60V
- DC POWER CONSUMPTION
 - 525W (ETSI 24H AVG - 4X20W PER BAND, 40W PER TX PORT)
- ANTENNA PORTS: 4 PORTS TX/RX



RRH HIGH BAND SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

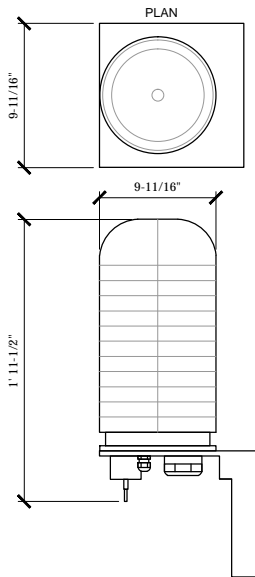


ENLARGED GPS UNIT DETAIL
NO SCALE



GPS MOUNTING DETAIL
NOT TO SCALE

- NOTES:
- 1) 9.7"ø X 23.5" H (NOT INCLUDING FRAME)
 - 2) INSTALL WITHIN 6 FEET OF RRH
 - 3) 60kA SURGE CURRENT CAPACITY PER CIRCUIT
 - 4) PROTECTS UP TO 6 RRH'S



DC SUPPRESSOR SPECIFICATIONS
NO SCALE

FCA ARCHITECTS

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☎ 973-726-7164 | 📠 973-726-7204
fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Frank Colasurdo, RA Date

NJ Lic. #13753
NY Lic. #029379-1
PA Lic. #RA403655
MA Lic. #32346
MD Lic. #19079

APPLICANT/CLIENT:

verizon wireless
New York SMSA Limited
Partnership
D/B/A Verizon Wireless
400 Warren Corporate Center Dr.
Building D
Warren, NJ 07059
(908) 256-7000

CO-APPLICANT/CLIENT:

AT&T
Mobility

New Cingular Wireless PCS, LLC
By AT&T Mobility Corporation
One AT&T Way
Bedminster, NJ 07921
(908) 532-1995

CO-APPLICANT/CLIENT:
T-MOBILE NORTHEAST, LLC.
4 Sylvan Way
Parsippany, NJ 07054
(973) 397-4800

PROJECT:
**WIRELESS COMMUNICATION
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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:
**AT&T RRH'S &
GPS DETAILS
AND
SPECIFICATIONS**

PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
**UNION COUNTY
COLLEGE**

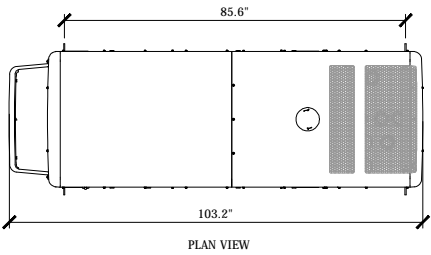
DRAWN BY: AMA DATE: 11/28/18

SHEET No:

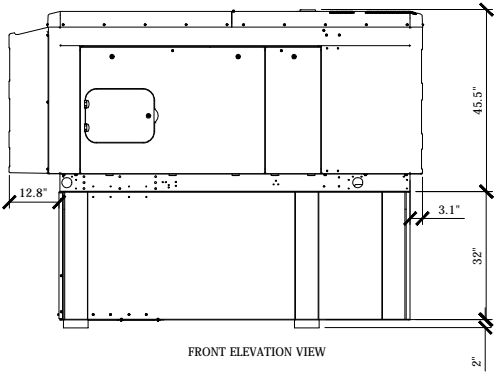
Z15

30 kW DIESEL GENERATOR 120/208V, 1 PHASE

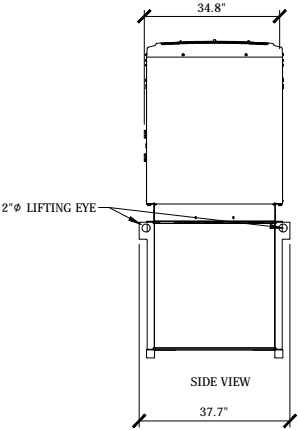
GENERATOR TO BE INSTALLED WITH SOUND ATTENUATION ENCLOSURE LEVEL 2



PLAN VIEW



FRONT ELEVATION VIEW

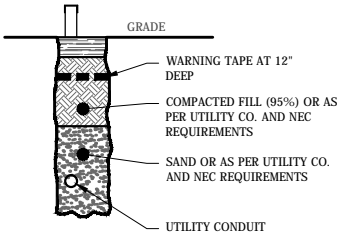


SIDE VIEW

- NOTE:
1. APPROXIMATE WEIGHT (WET): 2236 LBS
 2. FUEL TANK: UL LISTED DOUBLE WALL WITH 110% CONTAINMENT
 3. FUEL TANK CAPACITY: 195 GALLONS
 4. ENCLOSURE: ALUMINUM MATERIAL, DURABLE POWDER COAT PAINT, 180 MPH WIND RATED
 5. SOUND LEVEL: 67.5 dB(A) at 7m

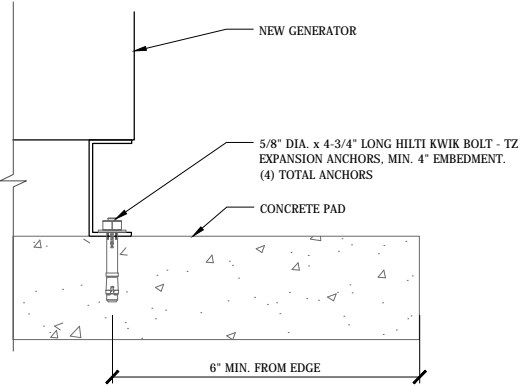
GENERATOR DETAIL

SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34")
SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



UTILITY TRENCH DETAIL

SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34")
SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



GENERATOR TIE DOWN DETAIL

SCALE: 6" = 1'-0", (SHEET SIZE 22"x34")
SCALE: 3" = 1'-0", (SHEET SIZE 11"x17")



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SHEET TITLE:

**AT&T
GENERATOR
SPECIFICATIONS**

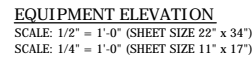
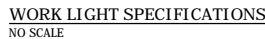
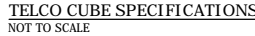
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**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
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COLLEGE**

DRAWN BY: AMA DATE: 11/28/18

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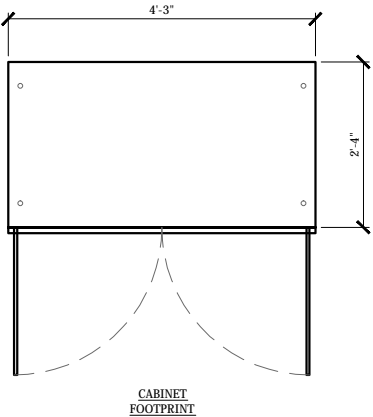
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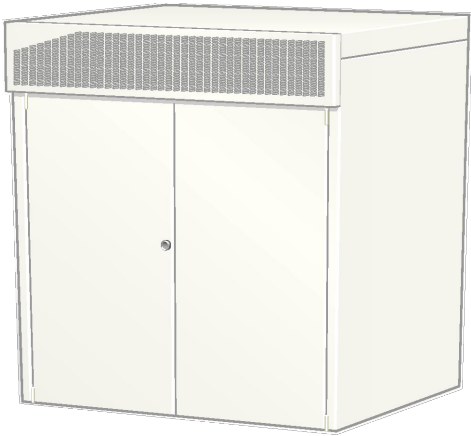
RBS 6102 CONFIGURATION SPECIFICATIONS

RBS 6102 SPECIFICATIONS

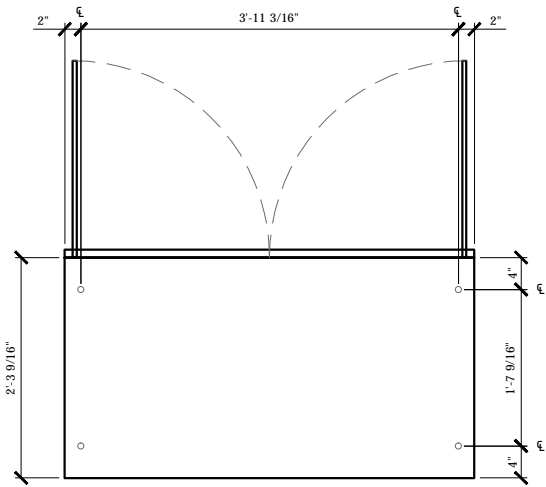
SPECIFICATION	CABINET
WEIGHT	727.5lbs (330kg)
DIMENSIONS	57x51.2x27.5 (1450x1300x700)
CLEARANCE TOLERANCE	
FRONT	27.5" (700mm)
REAR	7.9" (200mm)
CABLING SIDE	4" (100mm)
OTHER SIDE	4" (100mm)



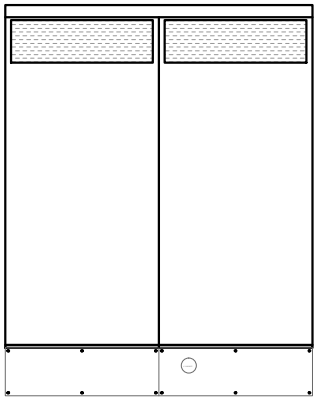
CABINET
FOOTPRINT



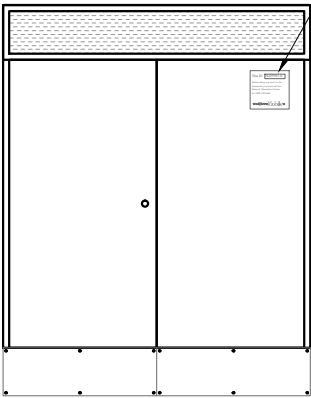
IMAGE



RBS 6102 BOLTING DETAIL
SCALE: 3/4"=1'-0", (SHEET SIZE 22" x 34")
SCALE: 3/8"=1'-0", (SHEET SIZE 11" x 17")

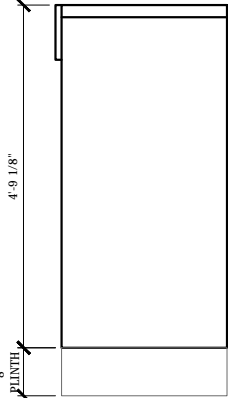


REAR ELEVATION



FRONT ELEVATION

PROPOSED T-MOBILE SIGN



SIDE ELEVATION

RBS 6102 CABINET DETAILS
SCALE: 3/4"=1'-0", (SHEET SIZE 22" x 34")
SCALE: 3/8"=1'-0", (SHEET SIZE 11" x 17")

Frank Colasurdo, RA Date
NJ Lic. #13753
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EQUIPMENT
CABINET
SPECIFICATIONS**

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**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
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COLLEGE**


DRAWN BY: DATE:
AMA 11/28/18

SHEET No:
Z18

Product Data Sheet

APX16DWV-16DWVS-E-A20

Optimizer® Side-by-Side Dual Polarized Antenna, 1710-2200, 65deg, 18dBi, 1.4m, VET, 0-10deg RET




Product Description

A combination of two X-Polarized antennas in a single radome, this pair of variable tilt antennas provides exceptional suppression of all upper sidelobe at all downtilt angles. It also features a wide downtilt range. This antenna is optimized for performance across the entire frequency band (1710-2200 MHz). The antenna comes pre-connected with two antenna control units (ACU).

Mechanical Specifications

Dimensions - HxWxD, mm (in)	1420 x 331 x 80 (55.9 x 13 x 3.15)
Weight w/o Mntg Hardware, kg (lb)	18.5 (40.7)
Survival/Rated Wind Speed, km/h (mph)	200 (125) / 165 (100)
Applied Wind Load Standard	Q/N 1055-4
Wind Load @ Rated Wind, Front, N (lb)	756 (170)
Wind Load @ Rated Wind, Max., N (lb)	756 (170)
Wind Load @ Rated Wind, Side, N (lb)	231 (52)
Wind Load @ Rated Wind, Rear, N (lb)	408 (92)
Operation Temperature, °C (°F)	-40 to +60 (-40 to +140)
Radome Material/Color	Fiberglass/Light Grey RAL7035
Mounting Hardware Material	Die-cast Aluminum
Radiating Element Material	Brass
Reflector Material	Aluminum



13"


55.9"

PRODUCT DATASHEET

APXVAARR24_43-U-NA20

RADIO FREQUENCY SYSTEMS

The Clear Choice®



Dual Slant Polarized Quad Band (8 Port) Antenna, 617-746/617-746/1695-2200/1695-2200MHz, 65deg, 15/15/18/18dBi, 2.4m (8ft), VET, RET, 0-12°/0-12°/2-12°/2-12°



FEATURES / BENEFITS

This antenna provides a 8 Port multi-band flexible platform for advanced use for flexible use in deployment scenarios for encompassing 600MHz, 700MHz, AWS & PCS applications.

MECHANICAL SPECIFICATIONS

Dimensions - H x W x D	mm (in)	2436 x 609 x 222 (95.9 x 24 x 8.7)
Weight (Antenna Only)	kg (lb)	58 (128)
Weight (Mounting Hardware only)	kg (lb)	11.5 (25.3)
Shipping Weight	kg (lb)	80 (176)
Connector type	8 x 4.3-10 female at bottom + 6 AISG connectors (3 male, 3 female)	
Adjustment mechanism	Integrated RET solution AISG compliant (Field Replaceable) + Manual Override - External Tilt Indicator	
Mounting Hardware Material	Galvanized steel	
Radome Material / Color	Fiber Glass / Light Grey RAL7035	

24"

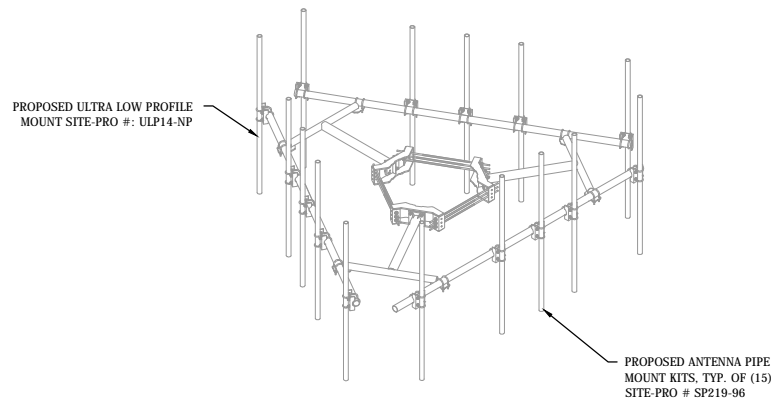
95.6"

AIR 3246 BAND 66

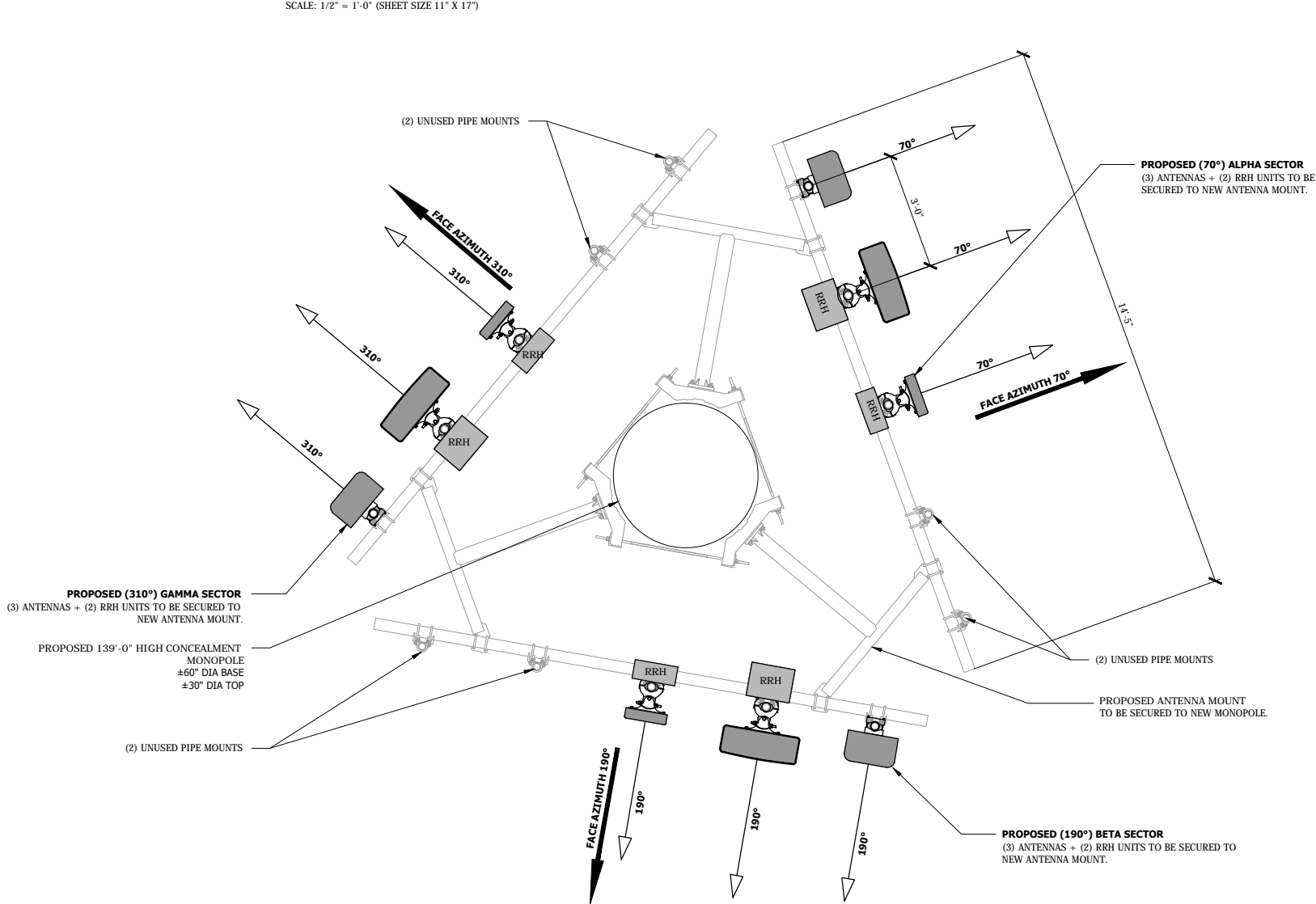
- Radio
 - 32 TX/RX
 - 90 MHz IBW
 - 60 MHz LTE CBW
 - Up to 3 carriers LTE
 - 160 W total RF conducted power
- Baseband interface 4 x 10.1 Gbps CPRI
- Mechanical properties
 - Size (H x W x D): 1475x400x238 mm
 - Weight : 81 Kg (estimated)
- Power
 - -48v DC, 3 wire or 2 wire
 - Max Power consumption: < 1350 w (estimated)
 - 120/230 VAC via supervised external PSU



ANTENNA SPECIFICATIONS
NOT TO SCALE



ANTENNA MOUNT
SCALE: 1/4" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/2" = 1'-0" (SHEET SIZE 11" x 17")



ANTENNA PLAN
SCALE: 1/2" = 1'-0" (SHEET SIZE 22" x 34")
SCALE: 1/4" = 1'-0" (SHEET SIZE 11" x 17")

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Frank Colasurdo Architects, Inc

Frank Colasurdo, RA Date
NJ Lic. #13753
NY Lic. #029379-1
PA Lic. #RA403655
MA Lic. #32346
MD Lic. #19079

APPLICANT/CLIENT:

New York SMSA Limited Partnership
D/B/A Verizon Wireless
400 Warren Corporate Center Dr.
Building D
Warren, NJ 07059
(908) 256-7000

CO-APPLICANT/CLIENT:

New Cingular Wireless PCS, LLC
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One AT&T Way
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(908) 532-1995

CO-APPLICANT/CLIENT:
T-MOBILE NORTHEAST, LLC.
4 Sylvan Way
Parsippany, NJ 07054
(973) 397-4800

PROJECT:
WIRELESS COMMUNICATION FACILITY
"WESTFIELD 4"
1033 SPRINGFIELD AVE,
CRANFORD, NEW JERSEY 07016
BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4
& 5, BLOCK: 122 LOT: 5
UNION COUNTY

3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/19
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/19
1	FINAL ZONING DRAWINGS	04/12/19
0	PRELIMINARY ZONING DRAWINGS	11/28/18
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

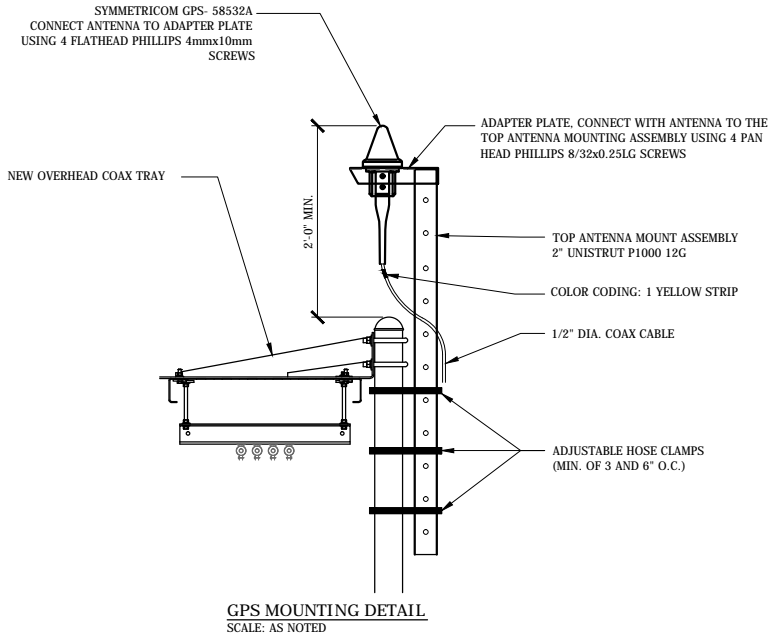
SHEET TITLE:
T-MOBILE ANTENNA PLAN AND DETAILS

PROJECT No:
VER3818 W-1128 NJ09961A

SITE DESIGNATION:
UNION COUNTY COLLEGE

DRAWN BY: AMA DATE: 11/28/18

SHEET No:
Z19



RRH DETAILS: (RRH 4449 B12, B17)

- DIMENSIONS: 14.94" H x 13.18" W x 9.25" D (CORE)
- WEIGHT (WITHOUT BRACKETS) 74 LBS
- MOUNTING: POLE, WALL MOUNTABLE
- RF OUTPUT POWER
 - 4T 4R
- DC VOLTAGE:
 - 48V VDC 3-WIRE
- DC POWER CONSUMPTION
 - ESTIMATED 1400W @100%
- ANTENNA PORTS: 4/4 TX/RX



RRH SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

RRH DETAILS: (RRH 4415 B66A)

- DIMENSIONS: 16.5" H x 13.4" W x 5.9" D (CORE)
- WEIGHT (WITHOUT BRACKETS) 46 LBS
- MOUNTING: POLE, WALL MOUNTABLE
- RF OUTPUT POWER
 - 4X40W
- DC VOLTAGE:
 - 48V VDC 3-WIRE
- DC POWER CONSUMPTION
 - ESTIMATED 570-660W @100%
- ANTENNA PORTS: 4/4 TX/RX




RRH SPECIFICATIONS
SCALE: 1-1/2" = 1'-0" (22" X 34" SHEET)
SCALE: 3/4" = 1'-0" (11" X 17" SHEET)

Frank Colasurdo, RA Date

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NY Lic. #029379-1
PA Lic. #RA403655
MA Lic. #32346
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(908) 532-1995

CO-APPLICANT/CLIENT:
T-MOBILE NORTHEAST, LLC.
4 Sylvan Way
Parsippany, NJ 07054
(973) 397-4800

PROJECT:
WIRELESS COMMUNICATION
FACILITY

"WESTFIELD 4"
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CRANFORD, NEW JERSEY 07016
BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4
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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:
T-MOBILE RRH'S
& GPS DETAILS
AND
SPECIFICATIONS

PROJECT No:
VER3818
W-1128
NJ09961A

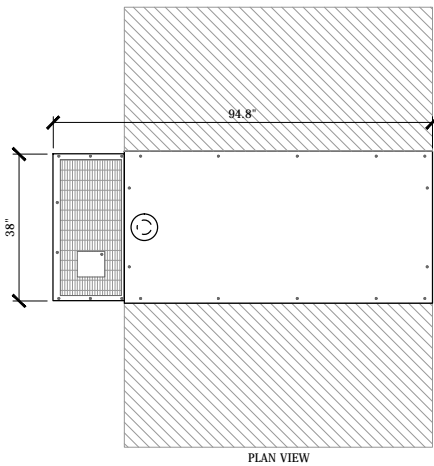
SITE DESIGNATION:
UNION COUNTY
COLLEGE

DRAWN BY: AMA DATE: 11/28/18

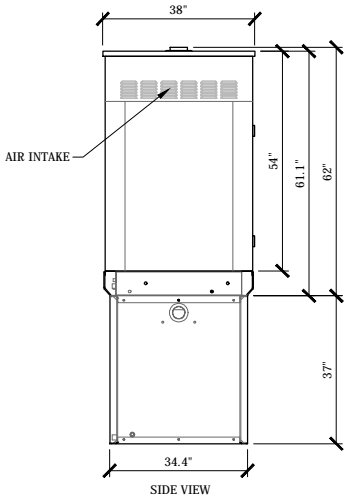
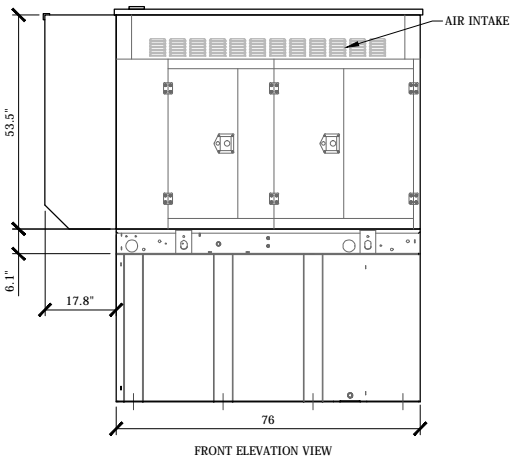
SHEET No:
Z20

25 kW DIESEL GENERATOR 120/208V, 1 PHASE

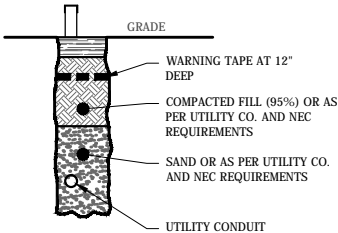
GENERATOR TO BE INSTALLED WITH SOUND ATTENUATION ENCLOSURE LEVEL 2



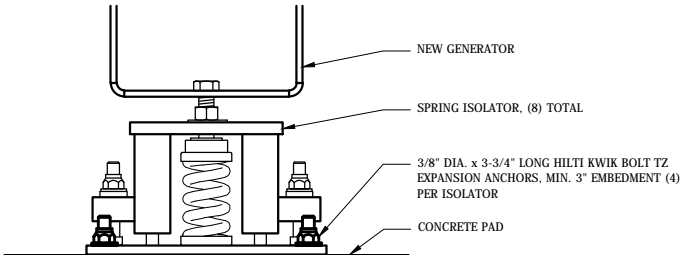
- NOTE:
1. APPROXIMATE WEIGHT (DRY): 3264 LBS
 2. FUEL TANK: UL LISTED DOUBLE WALL WITH 110% CONTAINMENT
 3. FUEL TANK CAPACITY: 211 GALLONS
 4. ENCLOSURE: HIGH PERFORMANCE SOUND-ABSORBING MATERIAL ALUMINUM MATERIAL, RHINO - TEXTURED POLYESTER POWDER COAT, 180 MPH WIND RATED
 5. SOUND LEVEL: 67.5 dB(A) at 23FT. (7M)



GENERATOR DETAIL
SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34")
SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



UTILITY TRENCH DETAIL
SCALE: 1/2" = 1'-0", (SHEET SIZE 22"x34")
SCALE: 1/4" = 1'-0", (SHEET SIZE 11"x17")



GENERATOR TIE DOWN DETAIL
SCALE: 3" = 1'-0" (SHEET SIZE 22"x34")
SCALE: 1 1/2" = 1'-0" (SHEET SIZE 11"x17")

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CO-APPLICANT/CLIENT:
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(973) 397-4800

PROJECT:
WIRELESS COMMUNICATION FACILITY
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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:
**T-MOBILE
GENERATOR
SPECIFICATIONS**

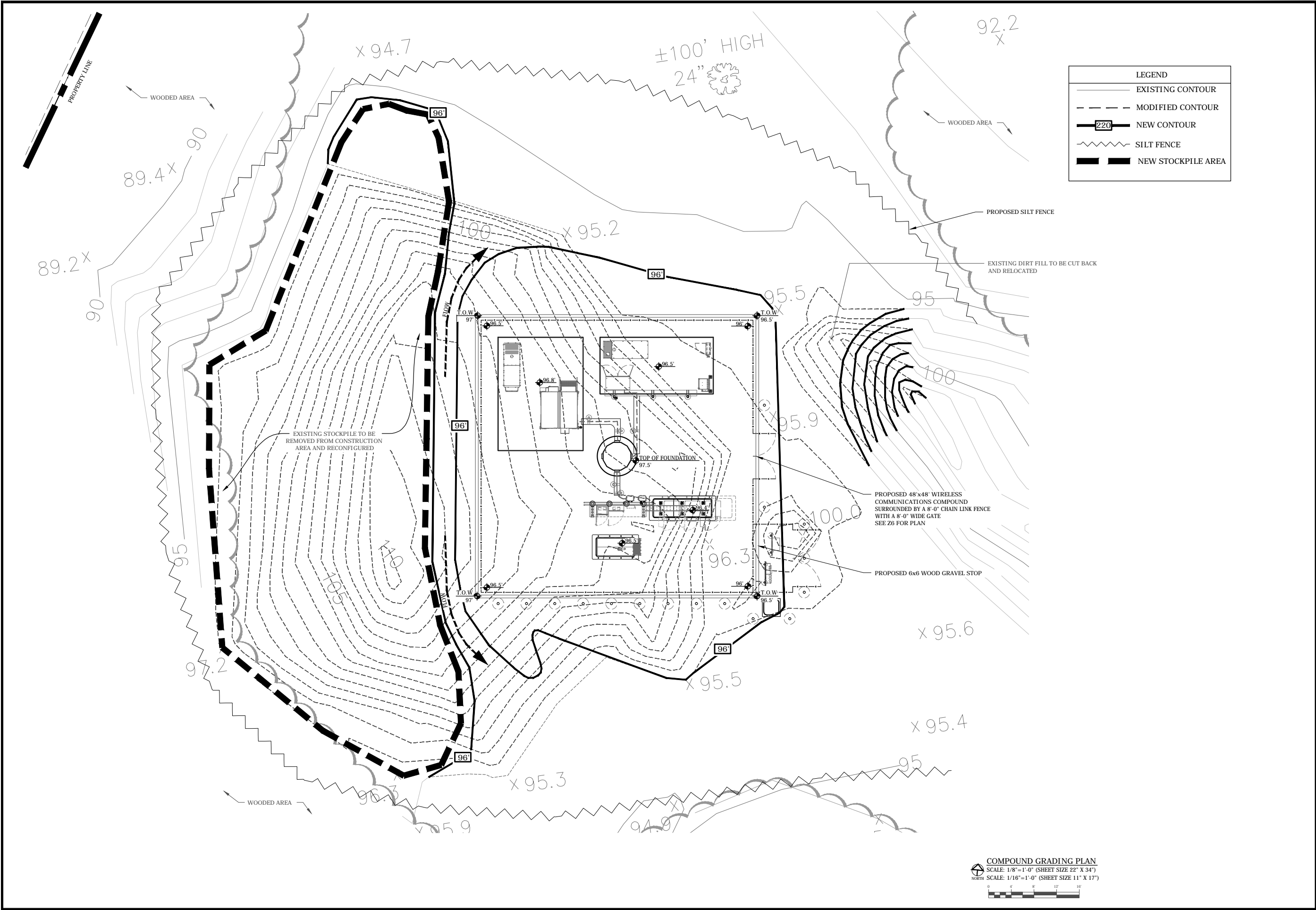
PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
**UNION COUNTY
COLLEGE**

DRAWN BY: AMA DATE: 11/28/18

SHEET No:
Z21





FCAARCHITECTS

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Frank Colasurdo Architects, Inc

Frank Colasurdo, RA

Date

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PROJECT:

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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE
SHEET TITLE:		
GRADING PLAN		

PROJECT No:

VER3818
W-1128
NJ09961A

SITE DESIGNATION:

UNION COUNTY COLLEGE

DRAWN BY:

AMA

DATE:

11/28/18

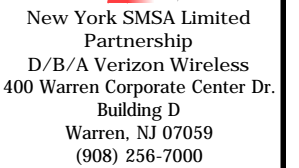
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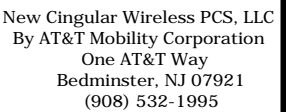


Frank Colasurdo, RA	Date
NJ Lic. #13753	
NY Lic. #029379-1	
PA Lic. #RA403655	
MA Lic. #32346	
MD Lic. #19079	

APPLICANT/CLIENT:



CO-APPLICANT/CLIENT:



CO-APPLICANT/CLIENT:
T-MOBILE NORTHEAST, LLC.
4 Sylvan Way
Parsippany, NJ 07054
(973) 397-4800

PROJECT:
**WIRELESS COMMUNICATION
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ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:

SITE CROSS SECTION

PROJECT No: **VER3818**
W-1128
NJ09961A

SITE DESIGNATION:
UNION COUNTY
COLLEGE

DRAWN BY: AMA	DATE: 11/28/18
------------------	-------------------



SHEET No:

Z24

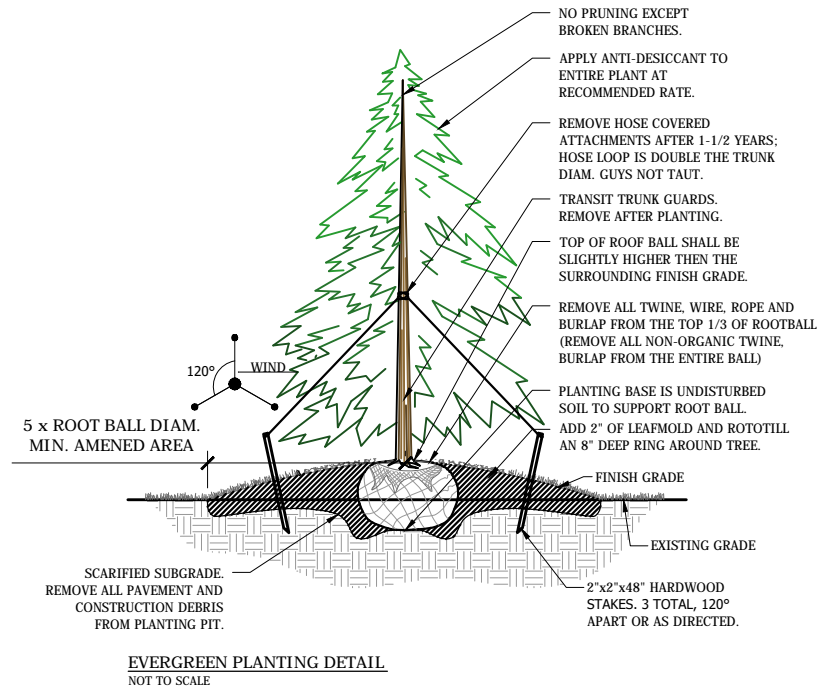
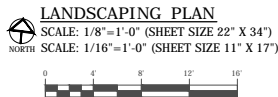
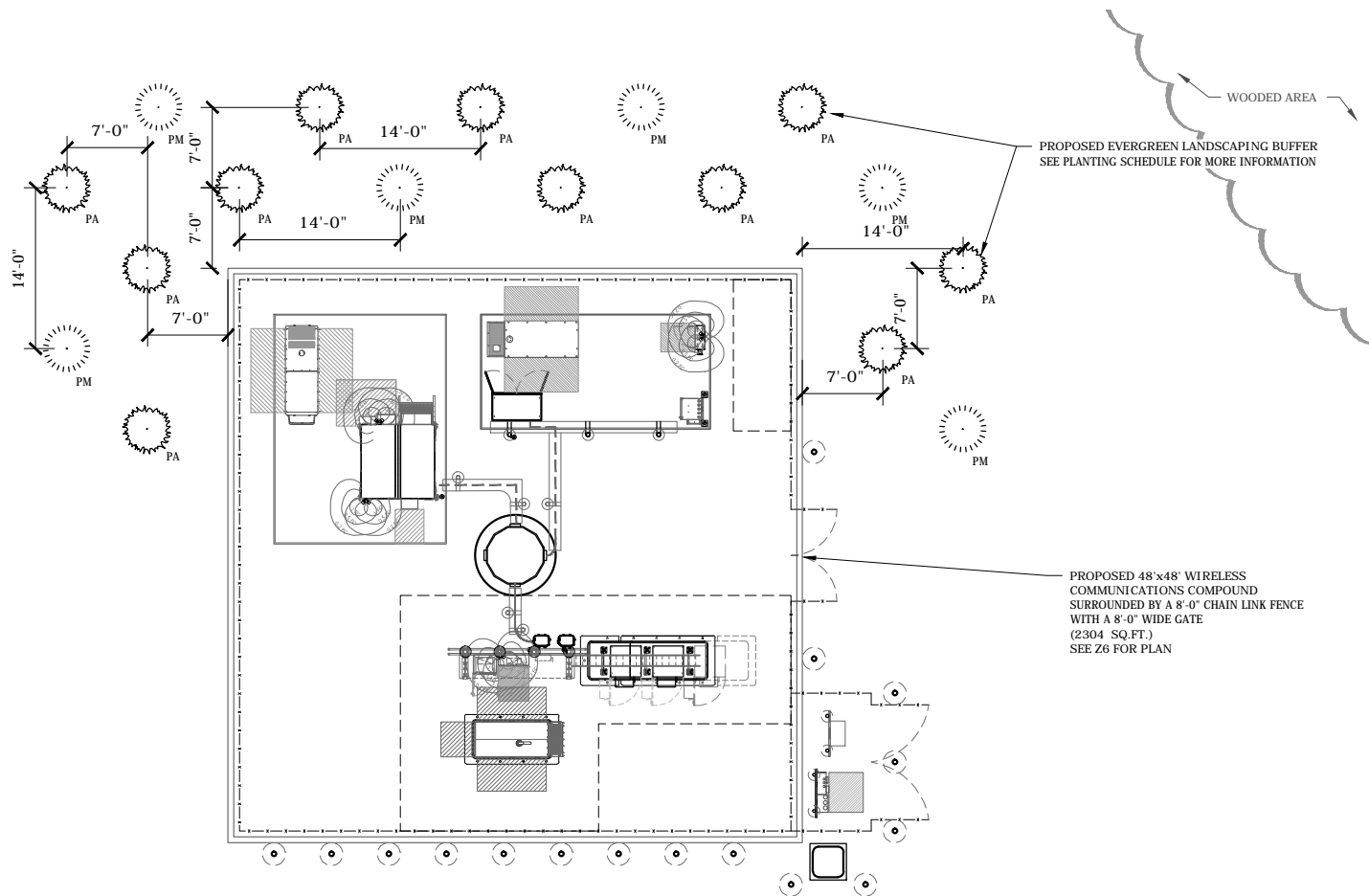


SITE CROSS SECTION
SCALE: 1"=30'-0" (SHEET SIZE 22" X 34")
SCALE: 1"=60'-0" (SHEET SIZE 11" X 17")

A horizontal graphic scale bar with alternating black and white segments. It is marked with the numbers 0, 15, 30, and 60. Below the bar, the text "(IN FEET)" is centered.

PLANTING SCHEDULE					
SYMBOL	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	COMMENTS
 PA	<i>Picea abies</i>	"NORWAY SPRUCE"	11	6'-7' IN B&B	EVERGREEN SPECIES, DEER RESISTANT, GROWS WELL IN SUN OR LIGHT SHADE, ZONE 2 TO 7. CAN REACH 40 TO 60 FT TALL.
 PM	<i>Pseudotsuga menziesii</i>	"DOUGLAS FIR"	6	6'-7' IN B&B	EVERGREEN SPECIES, DEER RESISTANT, GROWS WELL IN FULL SUN WELL DRAINING SOIL, ZONE 4 TO 6. CAN REACH 50 TO 80 FT TALL.

NOTE:
1. ALL LANDSCAPING SHALL BE GUARANTEED BY THE INSTALLER FOR ONE YEAR
2. PRIOR TO PURCHASING OF ANY NEW LANDSCAPING OBTAIN THE TOWNSHIP ENGINEERS APPROVAL FOR TYPES OF SPECIES INDICATED, NOTIFY THE ARCHITECT OF ANY CHANGES



Frank Colasurdo, RA Date
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NY Lic. #029379-1
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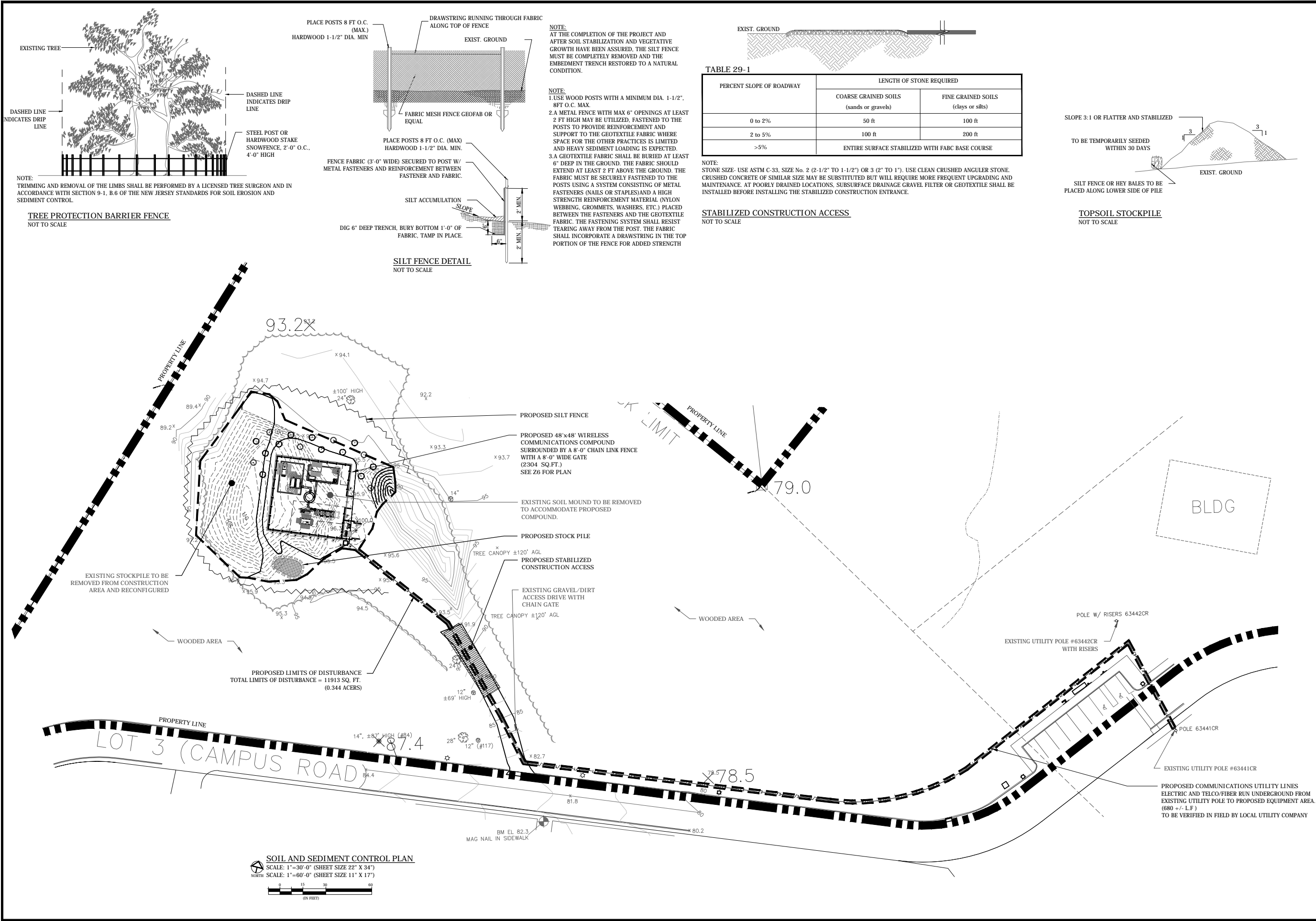
SHEET TITLE:
LANDSCAPING PLAN AND DETAILS

PROJECT No:
**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:
UNION COUNTY COLLEGE

DRAWN BY: AMA DATE: 11/28/18

SHEET No:
Z25



Frank Colasurdo, RA Date

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MD Lic. #19079

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verizon wireless
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0	PRELIMINARY ZONING DRAWINGS	11/28/18
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:

**SOIL & SEDIMENT
CONTROL PLAN
AND DETAILS**

PROJECT No:

**VER3818
W-1128
NJ09961A**

SITE DESIGNATION:

**UNION COUNTY
COLLEGE**

DRAWN BY: DATE:

AMA 11/28/18

SHEET No:

Z26

LEGEND FOR SYMBOLS AND LINES			
+	SUBDIV. MONUMENTS	—	PROPERTY LINE
●	PROPERTY MARKERS	---	DEED LOT LINES
x	SPOT ELEVATION	---	TAX PARCEL LINES
121	TAX BLOCK NUMBER	---	MUNICIPAL LINE, PER GIS
2.01	TAX LOT NUMBER	---	WIRE FENCE
		---	WATERLINE, PER FEMA
		---	FEMA FLOOD HAZARD AREA



CURVE TABLE, LOT 2.01
 C1 R=118.00' L=59.73' Δ=29°00'02"
 C2 R=68.00' L=83.12' Δ=70°02'01"
 C3 R=132.00' L=112.33' Δ=48°45'35"
 C4 R=103.00' L=80.90' R=103.00'
 C5 R=124.00' L=140.65' Δ=64°59'25"

- REFERENCES:**
- Tax Map, Township of Cranford, Sheets 9 and 10, revised May 27, 1998.
 - Deed from Nomahegan Company to The Union Junior College; recorded in Deed Book 1733, page 181, et seq.; dated December 16, 1948.
 - Deed from Fairview Cemetery to Union College; recorded in Deed Book 2907, page 102, et seq.; dated December 31, 1970. Correction Deed recorded in Deed Book 2915, page 859, et seq.; dated May 3, 1971.
 - Deed from New Jersey Education al Facilities Authority to Union College; recorded in Deed Book 4657, page 33, et seq.; dated March 17, 1997.
 - Filed Map No. 439-E entitled "Map of College Estates Owned by D & L Realty Co., Situated in the Township of Cranford, Union County, New Jersey"; filed in the Union County Clerk's Office on April 16, 1956.
 - Title search conducted by Action Title Research, file 214332; board date September 21, 2018.
 - NJ Flood Insurance Rate Map Number 34039C0020F; effective September 20, 2006.
 - Parcels of Union County, New Jersey State Plane NAD83; vector digital data published by the Union County Division of Information Technology on August 26, 2011.
 - Municipalities of New Jersey, New Jersey State Plane NAD83, vector digital data file "nj_munis.shp"; published by the New Jersey Office of Information Technology (NJGIT), Office of Geographic Information Systems (OGIS) on March 5, 2014.
 - NJ 2015 High Resolution Orthophotography, NAD83(2011) NJ State Plane Feet, MrSID Tiles; published by the NJGIT, OGIS on February 24, 2016.

SURVEY NOTES:
 This survey is only intended to support the design and lease related to a communications project. As such, it is limited to showing existing conditions that may directly affect the design and use of the proposed facility. Per contractual agreement and as provided by N.J.A.C.13:40-5(g), features located by this survey are limited to the project area and may not include all fences, streams, ditches, driveways, walkways, utility lines or easements, accessory buildings or structures.

Title for the surveyed premises was initially vested into the college as a portion of tracts conveyed by two deeds (Ref. 2 and 3). Current tax lot lines are per conveyances between the college and the New Jersey Education al Facilities Authority, most recent being Ref. 4. In preparation of this survey, documents contained in the Title Search (Ref. 6) were reviewed for easements that may directly impact the project area. This survey is subject to the paramount rights of the public to road Rights-of-Way, easements, covenants, restrictions, reservations, agreements and other matters of record which a thorough title search may disclose.

Publicly available Geographic Information System (GIS) digital data was used to depict parcel lines beyond the surveyed premises, municipal boundaries and flood hazards (Ref. 7, 8, 9). This data is shown for informational purposes only and has not been reviewed or approved by any government office. High Resolution Orthophotography (Ref. 10) was used to approximate structures and paved areas beyond the project area. The surveyed premises (Lot 2.01) is approximately 34% impervious surface. Structures shown on neighboring lots represent that structures exist on these lots and do not accurately reflect the size and location of these structures.

Offset dimensions are for the center of fence posts and are perpendicular to property lines. They are not intended to be used for construction of fences or any other improvements. Utility locations shown hereon are based on above-ground observations only. The type and location of utilities are not guaranteed to be accurate or all-inclusive. The user of this survey is responsible for making his own determinations as to the type, location and suitability of utilities as may be necessary. Existing site conditions should be verified prior to any excavation.

The undersigned is not qualified to make any determination of the existence or non-existence of wetlands and/or contamination, therefore, no statement is being made or implied, nor should it be construed that any statement is being made by the fact that no evidence of wetlands or contamination is shown. This survey does not show zoning or any other land use restrictions.

Portions of the surveyed premises are covered by dense vegetation. As such, some ground features may have been missed. This survey was made per the record description and evidence of position using GPS and conventional survey methods. The conventional survey instrument was calibrated per NJSA 51:1-6 on February 13, 2018 and recorded with Office of Weights and Measures, State of New Jersey.

The coordinate system is based on the New Jersey State Plane Coordinate System (NAD-83/2011). Distances labeled on this map are ground distances. True North shown is based on convergence angle at the point having a Latitude of 40°40'03.61" and a Longitude of -74°19'27.42". Vertical datum is North American Vertical Datum 1988 feet (NAVD-88), computed using GEOID12B.

Waiver of setting corner markers has been obtained from the ultimate user pursuant to the Board of Professional Engineers and Land Surveyors regulation, N.J.A.C. 13:40-5.1(D).

NO.	DATE	DESCRIPTION	SMG BY
1	4/2/19	Identification of UCC parcels, expanded view	SMG

FLOOD HAZARDS:
 The project area is situated in "areas determined to be outside the 0.2% annual chance floodplain" as designated by FEMA. More detailed flood information may be available if a Flood Insurance Study covers this area.

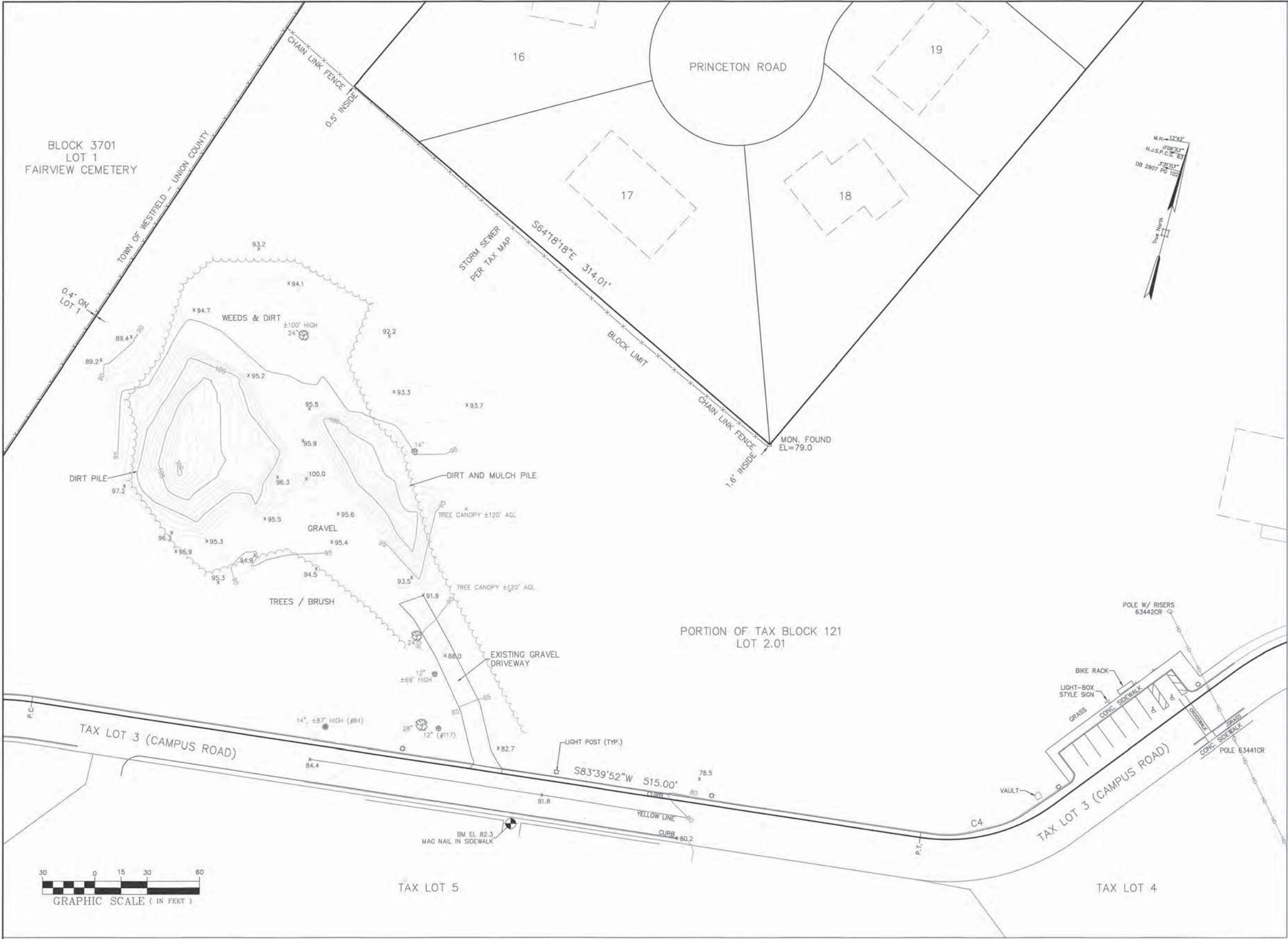
CERTIFICATION:
 The word certify, as used herein, is understood to be an expression of professional opinion by the surveyor, which is based on his best knowledge, information and belief. As such, it is neither a guarantee nor a warranty, expressed or implied.

I hereby certify that this survey was prepared under my direct supervision and that, to the best of my knowledge, this map is a true and correct representation of actual conditions as of October 16, 2018. This certification is made only to the parties listed below, is not transferable to other parties and is limited for the anticipated project. This certification is only valid for this map and copies thereof if said maps bear the impressed seal of the surveyor whose signature appears hereon. The original signed and sealed document is the document of record. Digital reproductions are supplied for informational purposes only.

CERTIFIED TO:
 Frank Colasurdo Architect, Inc.

Richard Gardell
 Professional Land Surveyor
 N.J. Lic. 36729, N.Y. Lic. 50611

<p>Gardell Land Surveying, LLC 57 Keller Avenue, Rockaway, NJ 07866 Phone: 973-296-1424 N.J. Certificate of Authorization #24CA2812800 N.Y. Certificate of Authorization #0012968</p>		<p>Richard M. Gardell Professional Land Surveyor N.J. Lic. 36729, N.Y. Lic. 050611</p>			
<p>Boundary Survey Prepared for Frank Colasurdo Architect, Inc. of lands known as Tax Map Sheet 9 and 10, Block 121, Lot 2.01 Cranford Township, Union County, New Jersey</p>					
DRAWN BY: S.M.G.	CHECKED BY: R.M.G.	SCALE: 22"x24" PLOT 1" = 100'	DATE: Nov. 30, 2018	CLIENT JOB#: VER3818	PROJ. NO.: 2281-2



LEGEND FOR SYMBOLS AND LINES			
[Symbol]	SUBDIV. MONUMENT	[Symbol]	PROPERTY LINE
[Symbol]	BENCH MARK	[Symbol]	TAX PARCEL LINES
[Symbol]	UTILITY POLE	[Symbol]	WIRE FENCE
[Symbol]	LAMP POST	[Symbol]	BUILDING, APPROX.
[Symbol]	SPOT ELEVATION		
[Symbol]	DECIDUOUS TREE		

FLOOD HAZARDS:
The project area is situated in "areas determined to be outside the 0.2% annual chance floodplain" as designated by FEMA. More detailed flood information may be available if a Flood Insurance Study covers this area.

SURVEY NOTES:
This survey is only intended to support the design and lease related to a communications project. As such, it is limited to showing existing conditions that may directly affect the design and use of the proposed facility. Per contractual agreement and as provided by N.J.A.C.13:40-5(g), features located by this survey are limited to the project area and may not include all fences, streams, ditches, driveways, walkways, utility lines or easements, accessory buildings or structures.

Property lines of Lot 2.01 were established by this office entitled "Boundary Survey Prepared for Frank Colasurdo Architect, Inc. of lands known as Tax Map Sheet 9 and 10, Block 121, Lot 2.01, Cranford Township, Union County, New Jersey" dated November 30, 2018.

Publicly available Geographic Information System (GIS) digital data was used to depict parcel lines beyond the surveyed premises and municipal boundaries. This data is shown for informational purposes only and has not been reviewed or approved by any government office. High Resolution Orthophotography (Ref. 10) was used to approximate portions of tree lines, along with structures and paved areas beyond the project area. Structures shown on neighboring lots represent that structures exist on these lots and do not accurately reflect the size and location of these structures.

Offset dimensions are for the center of fence posts and are perpendicular to property lines. They are not intended to be used for construction of fences or any other improvements. Utility locations shown hereon are based on above-ground observations only. The type and location of utilities are not guaranteed to be accurate or all-inclusive. The user of this survey is responsible for making his own determinations as to the type, location and suitability of utilities as may be necessary. Existing site conditions should be verified prior to any excavation.

The undersigned is not qualified to make any determination of the existence or non-existence of wetlands and/or contamination, therefore, no statement is being made or implied, nor should it be construed that any statement is being made by the fact that no evidence of wetlands or contamination is shown. This survey does not show zoning or any other land use restrictions.

Portions of the surveyed premises are covered by dense vegetation. As such, some ground features may have been missed. This survey was made per the record description and evidence of position using GPS and conventional survey methods. The conventional survey instrument was calibrated per NJSA 51:1-6 on February 13, 2018 and recorded with Office of Weights and Measures, State of New Jersey.


The coordinate system is based on the New Jersey State Plane Coordinate System (NAD-83/2011). Distances labeled on this map are ground distances. True North shown is based on convergence angle at the point having a Latitude of 40°40'03.61" and a Longitude of -74°19'27.42". Vertical datum is North American Vertical Datum 1988 feet (NAVD-88), computed using GEOID12B.

CERTIFICATION:
The word certify, as used herein, is understood to be an expression of professional opinion by the surveyor, which is based on his best knowledge, information and belief. As such, it is neither a guarantee nor a warranty, expressed or implied.

I hereby certify that this survey was prepared under my direct supervision and that, to the best of my knowledge, this map is a true and correct representation of actual conditions as of October 16, 2018. This certification is made only to the parties listed below, is not transferable to other parties and is limited for the anticipated project. This certification is only valid for this map and copies thereof if said maps bear the impressed seal of the surveyor whose signature appears hereon. The original signed and sealed document is the document of record. Digital reproductions are supplied for informational purposes only.


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Richard Gardell
Professional Land Surveyor
N.J. Lic. 36729, N.Y. Lic. 50611



Gardell Land Surveying, LLC
37 Keller Avenue, Rockaway, NJ 07866
Phone: 973-299-1424
N.J. Certificate of Authorization #24GA28126200
N.Y. Certificate of Authorization #0612986

Topographic Survey Prepared for
Frank Colasurdo Architect, Inc.
for a portion of lands known as
Tax Map Sheet 9 and 10, Block 121, Lot 2.01
Cranford Township, Union County, New Jersey



Richard M. Gardell
Professional Land Surveyor
N.J. Lic. 36729, N.Y. Lic. 50611

1

4/2/19

Utility poles and parking area

SMG

DRAWN BY:

CHECKED BY:

SCALE: 22"x24" PLOT

DATE:

S.M.G.

R.M.G.

1" = 30', C.I. = 1"

Nov. 30, 2018

CLIENT JOB#:

PROJ. NO.:

VER3818

2281-2



LEGEND FOR SYMBOLS AND LINES			
121	TAX BLOCK NUMBER		PROPERTY LINE
2.01	TAX LOT NUMBER		200 FT RADIUS
			TAX PARCEL LINES
			TAX BLOCK LIMITS
			MUNICIPAL LINE

NOTES:
This plan is a compilation of publicly available digital information. The data was not validated in any way and may not reflect current site conditions.

- REFERENCES:**
1. Tax Map, Township of Cranford.
 2. New Jersey 2015 High Resolution Orthophotography, NAD83(2011) NJ State Plane Feet, MrSID Tiles; published by the NJ Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS) on February 24, 2016.
 3. Parcels of Union County, New Jersey State Plane NAD83; vector digital data published by the Union County Division of Information Technology on August 26, 2011.
 4. Municipalities of New Jersey, New Jersey State Plane NAD83, vector digital data file "nj_munis.shp"; published by the New Jersey Office of Information Technology (NJOIT), Office of Geographic Information Systems (OGIS), March 3, 2014.

NO.	DATE	DESCRIPTION	BY



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N.J. Certificate of Authorization #24GA28128200
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**200 Foot Radius Map for
Union County College & UCC Foundation
Cranford Township
Union County, New Jersey**