PROPOSED WIRELESS COMMUNICATION FACILITY



NEW YORK SMSA LIMITED PARTNERSHIP **D/B/A VERIZON WIRELESS**

400 Warren Corporate Center Drive. Building D. Warren, New Jersey 07059 Site: Westfield 4

1033 SPRINGFIELD AVENUE CRANFORD. NJ 07016

BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5 BLOCK: 122 (LOT: 25)

UNION COUNTY

···T···Mobile·

NORTHEAST LLC.

4 Sylvan Way Parsippany, New Jersey 07054 Site: NJ09961B

SIGNATURE BLOCK

THIS PROJECT DOES NOT REQUIRE ANY ADDITIONAL PARKING SPACES.

6. THIS PROJECT DOES NOT INVOLVE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.

THIS TYPE/NATURE OF THE WIRELESS FACILITY REQUIRES SPECIALIZED TRAINED TECHNICIANS AND

PROJECT CONTACTS

NEW CINGULAR WIRELESS PCS. LLC BY AT&T MOBILITY CORPORATION One AT&T Way

Bedminster, New Jersey 07921

FA: 10110601

REFERENCE DRAWINGS:
1) FIELD MEASUREMENTS TAKEN ON 03/19/2015 BY FC Architects.

CRANFORD TOWNSHIP. UNION COUNTY. NEW JERSEY. DATED 4-4-2019

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,



New York SMSA Limited Partnership D/B/A Verizon Wireless 400 Warren Corporate Center Dr Site: W-1128 Building D Warren, NJ 07059 (908) 256-7000 O-APPLICANT/CLIENT: LIST OF DRAWINGS AT&T Date lew Cingular Wireless PCS, LLC COVER SHEET 09/06/19 By AT&T Mobility Corporation 200 FT PROPERTY OWNERS LIST 09/06/19 One AT&T Way Bedminster, NJ 07921 AERIAL AND TAX MAP & 200 FT PROPERTY OWNERS LIST 5 09/06/19 (908) 532-1995 ZONING MAP 09/06/19 O-APPLICANT/CLIENT: 09/06/19 OVERALL SITE KEY PLAN -MOBILE NORTHEAST, LLC SITE PLAN AND ZONING INFORMATION 09/06/19 4 Sylvan Way Parsippany, NJ 07054 5 09/06/19 COMPOUND PLAN & SITE ELEVATION (973) 397-4800 VERIZON EQUIPMENT PLAN & ELEVATION 09/06/19 VERIZON EQUIPMENT CABINET SPECIFICATIONS 09/06/19 WIRELESS COMMUNICATION VERIZON ANTENNA PLAN & DETAILS 09/06/19 5 FACILITY VERIZON RRH'S & GPS DETAILS AND SPECS 09/06/19 "WESTFIELD 4" VERIZON GENERATOR SPECIFICATIONS 09/06/19 1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 AT&T EQUIPMENT PLAN & ELEVATION 09/06/19 BLOCK: 121 LOT: 1, 2.01, 2.02, 3 & 5, BLOCK: 122 LOT: 25 AT&T EQUIPMENT CABINET SPECIFICATIONS 5 09/06/19 09/06/19 AT&T ANTENNA PLAN & DETAILS UNION COUNTY AT&T RRH'S & GPS DETAILS AND SPECS 5 09/06/19 AT&T GENERATOR SPECIFICATIONS 09/06/19 5 REV. 3 BULK CHART T-MOBILE EQUIPMENT PLAN & ELEVATION T-MOBILE EQUIPMENT CABINET SPECIFICATIONS 09/06/19 REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS T-MORILE ANTENNA PLAN & DETAILS 5 09/06/19 REV. 1 ZONING DRAWINGS T-MOBILE RRH'S & GPS DETAILS AND SPECS 09/06/19 5 PER ATTORNEY COMMENTS T-MOBILE GENERATOR SPECIFICATIONS 09/06/19 FINAL ZONING DRAWINGS MISCELLANEOUS SITE DETAILS 5 09/06/19 RELIMINARY ZONING GRADING PLAN 09/06/19 SITE CROSS SECTION 09/06/19 DESCRIPTION OF CHANGE LANDSCAPING PLAN AND DETAILS 09/06/19 **COVER SHEET** SOIL AND SEDIMENT CONTROL PLAN AND DETAILS 09/06/19 Z27 SOIL AND SEDIMENT CONTROL NOTES

350 Clark Drive | Suite 304 Mount Olive, N.J 07828 O 973-726-7164 | F 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo, RA

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655

MA Lic. #32346

MD Lic. #19079

Frank Colasurdo Architects, Inc

Veri onwireless

VER3818

W-1128

NJ09961B

UNION COUNTY

COLLEGE

ΔΜΔ

SHEET No

Date



VERIZON WIRELESS AT&T: IS APPROVED BY THE CRANFORD TOWNSHIP ZONING Z1 REAL ESTATE REAL ESTATE: VICKY BRENNA (516) 557-2398 Z2 Z2a CONSTRUCTION: RF ENGINEER: Z3 CHRIS MURRAY (973) 277-1914 GLEN PIERSON (201) 572-6206 CHAIRPERSON RE ENGINEER T-MORILE Z5 THERESA MERCADO (973) 766-2835 7.6 PROJECT PLANNER: WILLIAM MASTERS (973) 540-1332 RF ENGINEER GLEN PIERSON (201) 572-6206 SECRETARY PRICE, MEESE SHULMAN & D'ARMINIO 50 TICE BOULEVARD, SUITE 380 WOODCLIFF LAKE, NJ 07677 Z10 GREGORY D. MEESE (201) 391-3737 TOWNSHIP OF CRANFORD OWNER/APPLICANT INFORMATION Z16 SITE INFORMATION SITE ADDRESS: FLOOD PLAIN: SUBJECT PARCELLIES IN ZONE "X" AREAS SUBJECT PARCEL LIES IN ZUNE A AREAS
DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL
CHANCE FLOODPLAIN PER THE FLOOD RATE
INSURANCE MAP NUMBER 34039C0020F PANEL 20 UNION COUNTY COLLEGE CRANFORD, NJ 07016 NEW YORK SMSA LIMITED PARTNERSHIP Z20 D/B/A VERIZON WIRELESS 1033 SPRINGFIELD AVE 400 WARREN CORPORATE CENTER DRIVE. BUILDING D. CRANFORD, NJ 07016 MUNICIPAL ID: WARREN. NEW JERSEY 07059 BLOCK#: 121 LOT#: 1, **2.01**, 2.02, 3, 4 & 5 ZONE: "E-1" - EDUCATION DISTRICT OF 49 FOR UNION COUNTY, NEW JERSEY, DATED CO-APPLICANT/LESSEE INFORMATION 7.22 CO-APPLICANT/LESSEE INFORMATION: Z23 4 Sylvan Way Parsippany, New Jersey 07054 NEW CINGULAR WIRELESS PCS. LLC. Z24 BY AT&T MOBILITY CORPORATION Phone: (973) 397-4800 ONE AT&T WAY BEDMINSTER, NEW JERSEY 07921 SOIL DISTURBANCE: BUILDING CODE COMPLIANCE SCOPE OF WORK THE CONSTRUCTION OF A NEW WIRELESS COMMUNICATIONS FACILITY FOR VERIZON WIRELESS, AT&T AND T-MOBILE. NJUCC, NJIBC 2015, N.E.C. 2014, EIA/TIA 222 REV.G-1 - 2007 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. THE FACILITY SHALL BE MONITORED FROM REMOTE MONITORING FACILITIES AND IN CASE OF AN MERGENCY THE LOCAL FIRE OR POLICE DEPARTMENT WILL BE NOTIFIE CONNECTIONS FOR THE PROPOSED ELECTRIC AND TELEPHONE SERVICE ARE BASED ON SITE

LIST OF PROPERTY OWNERS WITH 200' OF SUBJECT PARCEL (CRANFORD TOWNSHIP) ~~~~~~~~<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>

	Cranford Township Parcel Offset List
	Target Parcel(s): Block-Lot: 121-1 UNION COLLEGE SPRINGFIELD AVE
	15 parcels fall within Block-Lot: 118-6 REYNOLDS, BRIAN & KWATKOWSKI,G 9 RUTGERS RD GRANFORD, NJ 07016 RE 9 RUTGERS RD
	RE: 9 NO IGERS NO Block-Lot: 118-15 BODDIE, BROCKINTON T & FEENEY MARIE 10 PRINCETON RD CRAINFORD, NJ 67016 RE: 10 PRINCETON RD
	Block-Lot: 118-14 CAROLLO: ANDREW & SUSAN 8 PRINCETON RD CRANFORD, N J 97016 RE: 8 PRINCETON RD
	Block-Lot: 118-13 APICELLA: DENNIS F & NANCY C 6 PRINCETON RD CRANFORD, N J 07016 RE: 6 PRINCETON RD
	Block-Lot: 118-12 COOK: GLEN & MARYBETH 4 PRINCETON RD CRANFORD, N J 07016 RE: 4 PRINCETON RD
	Block-Lot: 118-11 TOMPKINS, CHARLES & MARY ANN 2 PRINCETON RD CRANFORD, NJ 07016 RE: 2 PRINCETON RD
	NE: 2 PRINTOLE ION RO Block-Lot: 121-2.02 UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: 1033 SPRINGFIELD AVE
	Block-lot: 105-1 UNION COUNTY DIV PARKS & RECREATION ADMIN BLOG/ET/OWN PLAZA ELIZABETH, N. J. 07207 EE: 1030 SPRINGFIELD AVE
1	Farget Parcel(s): Block-Lot: 121-3 UNION COLLEGE COLBY LN REAR 22 parcels fall within 2
	Block-Lot: 122-22 MORRISON: ROBERT & A MARIE 8 YALE TERR CRANFORD, N J 07016
	RE: 8 YALE TERR Block-Lot: 122-21 RIVERA, LUIS & ARACELI REVOC TRUST 10 YALE TERR CRANFORD, NJ 07016
	RE: 10 YALE TERR Block-Lot: 122-13 LUKENDA, ROBERT 35 HARVARD RD CRAMPORD, NJ 07015
	RE: 35 HARVARD RD Block-Lot: 122-12 WETHERELL: KEVIN & KAREN 33 HARVARD RD CRANFORD: N J 07016
	RE: 33 HARVARD RD Block-Lot: 122-11 DEL RUSSO: PHYLLIS / WEISS: DEBRA 31 HARVARD RD CRANFORD, N J 07016
	Block-Lot: 122-10 JULIAN, ROBERT J & KIMBERLY C 29 HARVARD RD CRANPORD, NJ 07016
	RE: 28 HARVARD RD Block-Lot: 126-1 PFAU, ANDREW & JENNIFER 32 COLBY LN CRANFORD, NJ 07016
	RE: 32 COLBY LN Blankel at: 121-4

Block-Lot: 121-4 UNION COUNTY COLLE 1033 SPRINGFIELD AVE

RE: GALLOWS HILL RO

1033 SPRINGFIELD AV CRANFORD, N J 07016 RE: COLBY LN REAR

Block-Lot: 122-8

Block-Lot: 121-5

1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: 1033 SPRINGFIELD AVE Block-Lot: 122-9 SWANSON: SCOTT & KRISTA Block-Lot: 122-20 SHANAHAN: JAMES PWEILER: ELIZABETH 12 YALE TERR CRANFORD, N J 07016 RE: 12 YALE TERR Block-Lot: 122-19 SPITZ: THEODORE & MADELINI 14 YALE TERR CRANFORD, N J 07016 RE: 14 YALE TERR CRANFORD, N J 07016 RE: 1056 COOLIDGE ST Block-Lot: 132-5 PALM: GARY A & TERESA M 1052 COOLIDGE ST CRANFORD, N J 07016 RE: 1052 COOLIDGE ST Block-Lot: 131-1 BANGE, MICHAEL & LAROSA 1059 COOLIDGE ST CRANFORD, NJ 07016 RE: 1059 COOLIDGE ST Block-Lot: 121-2.01 UNION COUNTY COLLEGI Block-Lot: 130-1 TOWNSHIP OF CRANFORD 8 SPRINGFIELD AVE CRANFORD, N J 07016 RE: COLBY LN - STRIP Block-Lot: 122-1 SUSZKO: PAUL M, ANN (LE) 34 BROWN TERR CRANFORD, N J 07016 RE: 34 BROWN TERR Block-Lot: 121-2.02 UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: 1033 SPRINGFIELD AVE Block-Lot: 105-1 UNION COUNTY DIV PARKS 8 ADMIN BLDG/ETOWN PLAZA ELIZABETH, N J 07207 RE: 1030 SPRINGFIELD AVE

Block-Lot: 118-7 MATTHEWS: DAVID K & MARIA E

Block-Lot: 118-6 MUNOZ, JOANNA & WOODS, M

CRANFORD, N J 07016 RE: 5 RUTGERS RD

Block-Lot: 118-10 TAPP, KENNETH &

Block-Lot: 118-17

Block-Lot: 118-16 BRODERICK: CARMEL

CRANFORD, N J 07018 RE: 12 PRINCETON RD

Block-Lot: 121-2.01

1101 SPRINGFIELD AVE CRANFORD, NJ 07016

RE: 1101 SPRINGFIELD AVE

Target Parcol(s): Block-Lot: 121-2.01 UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE 64 parcels fall within 200 feet of this parcel(s

Black-Lot: 122-21 Block-Lot: 118-15 CRANFORD, NJ 07016 RE: 10 PRINCETON RD Block-Lot: 118-14 CRANFORD, N J 07016 RE: 33 HARVARD RD CRANFORD, N J 07016 RE: 8 PRINCETON RD Block-Lot: 122-11 Block-Lot: 118-13

APICELLA: DENNIS F & NANCY 31 HARVARD RD CRANFORD, N J 07016 RE: 31 HARVARD RD CRANFORD, N J 07016 RE: 6 PRINCETON RD Block-Lot: 118-12 COOK: GLEN & MARYSE 4 PRINCETON RD CRANFORD, N J 07016 CRANFORD, NJ 07016 RE: 29 HARVARD RD RE: 4 PRINCETON RD Block-Lot: 122-9 Block-Lot: 119-19 SWANSON: SCOTT & KRISTA CRANFORD, N J 07016 RE: 27 HARVARD RD CRANFORD, N J 07016 RE: 41 RUTGERS RD

Block-Lot: 118-6

CRANFORD, NJ 07016 RE: 7 RUTGERS RD

Block-Lot: 118-4 HUBBUCH: ROBERT C & K 11 RUTGERS RD CRANFORD, N J 07016 RE: 11 RUTGERS RD

TYRRELL, STEPHEN & ANDRE

Block-Lot: 118-3

CRANFORD, NJ 07016 RE: 15 RUTGERS RD

Block-Lot: 122-20

12 YALE TERR

MUNOZ, JOANNA & WOODS, MICHAEL 7 RUTGERS RD

Block-Lot: 118-5 REYNOLDS, BRIAN & KV 9 RUTGERS RD CRANFORD, NJ 07016 RE: 9 RUTGERS RD Block-Lot: 119-17 WALDMAN: LEONARD & LOIS E 32 PRINCETON RD CRANFORD, N J 07016 RE: 32 PRINCETON RD Block-Lot: 119-16

Block-Lot: 119-15 CRANFORD, N J 07016 RE: 28 PRINCETON RD

Block-Lot: 119-13 EGAN, JOHN & SUZANNE CRANFORD, NJ 07016 RE: 24 PRINCETON RD Block-Lot: 119-12 KIEBLER: HEINZ G & JUDITH I 22 PRINCETON RD CRANFORD, N J 07016 RE: 22 PRINCETON RD Block-Lot: 119-11

CRANFORD, N J 07018 RE: 20 PRINCETON RD

Block-Lot: 118-19 NEWMARK: JEFFREY & JUDY 2 AMHERST RD CRANFORD, N J 07016 RE: 2 AMHERST RD 16 PRINCETON RD CRANFORD, NJ 07016

RE: 16 PRINCETON R Block-Lot: 118-17 25 HARVARD RD CRANFORD, N J 07016 RE: 25 HARVARD RD CRANFORD, N J 07016 RE: 14 PRINCETON RD Block-Lot: 122-1 SUSZKO: PAUL M, ANN (LE) 34 BROWN TERR CRANFORD, N J 07016 RE: 34 BROWN TERR Block-Lot: 121-2.02

Block-Lot: 126-1 PFAU, ANDREW & JENNIFER 32 COLBY LN UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: 1033 SPRINGFIELD AVE CRANFORD, NJ 07016 RE: 32 COLBY LN Block-Lot: 121-4 Block-Lot: 120-30 KASKIW, PATRICK M & DIANE CRANFORD, NJ 07016 RE: 17 PRINCETON RD RE: GALLOWS HILL RE Block-Lot: 121-3 Block-Lot: 120-29 OLESKY, DEIRDRE & PETER 1033 SPRINGFIELD AV CRANFORD, N J 07016 RE: COLBY LN REAR CRANFORD, NJ 07016 RE: 19 PRINCETON RD

SCHULTZ,LEON H & LINDA F 21 PRINCETON RD

CRANFORD, NJ 07016 RE: 21 PRINCETON RD Block-Lot: 120-26

CRANFORD, N J 07016 RE: 25 PRINCETON RD Block-Lot: 120-24 SYKES: HOLLISTER & ADELE CRANFORD, N J 07016 RE: 29 PRINCETON RD Block-Lot: 120-23 SCHIMKOWITZ: ALAN & LEE ANY

Block-Lot: 120-22 FELDMAN: ANDREW & LAUREN CRANFORD, N J 07016 RE: 33 PRINCETON RD Block-Lot: 120-21 PARKER, DANN LEROY JR 35 PRINCETON RD CRANFORD, NJ 07016 RE: 35 PRINCETON RD

Block-Lot: 120-12 DONOHUE: DAVID A & INGER J CRANFORD, N J 07016 RE: 48 RUTGERS RD

Block-Lot: 120-11 DRAGONETTE: ROBERT & KATHERINE 46 RUTGERS RD CRANFORD, N J 07016 RE: 46 RUTGERS RD Target Parcel(s): Block-Lot: 121-2.02 UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE

Block-Lot: 121-4 UNION COUNTY COLLEGE

033 SPRINGFIELD AVE

Block-Lot: 120-30 KASKIW, PATRICK M & DIANE E

Target Parcel(s): Block-Lot: 122-25 UNION CTY COLLEGE FTDN % BRUSCHETTI 995 SPRINGFIELD AVE

11 parcels fall within 200 feet of this parcel(s

CRANFORD, N J 07016

RE: GALLOWS HILL RD

Block-Lot: 121-3

17 PRINCETON RD

RE: 17 PRINCETON RD

Block-Lot: 122-24

EURELL: DAVID & ROSEN 4 PENN RD CRANFORD, N J 07016 RE: 4 PENN RD

Block-Lot: 122-23 PENA: RALPH & NANCY 6 YALE TERR CRANFORD, N J 07016

RE: 6 YALE TERR

Block-Lot: 122-22

Block-Lot: 151-14 FAIRVIEW MANOR LLC

831 SPRINGFIELD AV

RANFORD, NJ 07016

RE: 831 SPRINGFIELD AVE

Block-Lot: 151-13 SPINNER: KARL & LORI 3 PENN RD CRANFORD, N J 07016 RE: 3 PENN RD

Block-Lot: 122-21 RIVERA, LUIS & ARACELI REVOC TRUST 10 YALE TERR CRANFORD, NJ 07016 RE: 10 YALE TERR

8 YALE TERR CRANFORD, N J 07016 RE: 8 YALE TERR

CRANFORD, N J 07016 RE: 12 YALE TERR Block-Lot: 132-6 POLITO: EDWARD & PA: 1056 COOLIDGE ST CRANFORD, N J 07018 RE: 1056 COOLIDGE ST Block-Lot: 131-1 BANGE, MICHAEL & LAROSA, KELLY ANN CRANFORD, NJ 07016 RE: 1059 COOLIDGE ST

Block-Lot: 121-5 UNION COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: COLBY LN REAR

Block-Lot: 122-8 MC HUGH: THOMAS K & JOANNE-TRUSTEES

Target Parcel(s): Block-Lot: 121-4 UNION COUNTY COLLEGE GALLOWS HILL RD 88 parcels fall within 200 feet of this parcel(s)

Block-Lot; 122-24 EURELL: DAVID & ROSE 4 PENN RD CRANFORD, N J 07016 RE: 4 PENN RD

CRANFORD, N J 07016 RE: 6 YALE TERR

Block-Lot; 122-22

Block-Lot: 122-21

CRANFORD, NJ 07016 RE: 10 YALE TERR

10 YALE TERR

Block-Lot: 122-15

STICKLES: MICHAEL R & CATHLEEN

Block-Lot; 122-23

6 YALE TERR

FARLEY: GRACE 37 PRINCETON RD CRANFORD, N J 07018 RE: 37 PRINCETON RD Block-Lot: 120-18 CRANFORD, NJ 07018 RE: 41 PRINCETON RE

Block-Lot: 120-16 CRANFORD, N J 07016 RE: 42 PRINCETON RD Block-Lot: 120-14

CRANFORD, N J 07016 RE: 38 PRINCETON RD

Block-Lot: 120-13

Block-Lot: 121-1

1033 SPRINGFIELD AVE

CRANFORD, N J 07016

Block-Lot: 120-10 MC DERMOTT: JOHN & MILA

Block-Lot: 121-2.01

UNION COUNTY COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07018 RE: 1033 SPRINGFIELD AVE

RE: SPRINGFIELD AVE

CRANFORD, N J 07016 RE: 39 HARVARD RD Block-Lot: 130-19 CRANFORD, N J 07016 RE: 30 CORNELL RD REA Block-Lot: 130-18 HUANG: KANG & SING 26 CORNELL RD CRANFORD, N J 07016 RE: 28 CORNELL RD Block-Lot: 130-17 ROTH: WALTER & ELEANOR

CRANFORD, N J 07016 RE: 26 CORNELL RD Block-Lot: 130-16 JORN: GEORGE J & JANIS M 24 CORNELL RD CRANFORD, N J 07018 RE: 24 CORNELL RD Block-Lot: 130-15 22 CORNELL RD

CRANFORD, NJ 07016 RE: 22 CORNELL RD Block-Lot: 130-13

EDWARDS: DOUGLAS & CORA 16 CORNELL RD CRANFORD, N J 07016 RE: 18 CORNELL RD Block-Lot: 123-5 GAROFOLA: LISA SCHV 36 HARVARD RD CRANFORD, N J 07016 RE: 36 HARVARD RD Block-Lot: 122-20

CRANFORD, N J 07016 RE: 12 YALE TERR Block-Lot: 122-19 SPITZ: THEODORE & MADELINE 14 YALE TERR CRANFORD, N J 07016 RE: 14 YALE TERR Block-Lot: 122-18 MESGLESKI, PETER J JR & MICHAEL P 16 YALE TERR

CRANFORD, NJ 07016 RE: 16 YALE TERR Block-Lot: 151-12 VITALE: EMILY 5 PENN RD CRANFORD, N J 07016 Block-Lot: 105-1 Block-Lot: 132-8 ADMIN BLDG/ETOWN PLAZA ELIZABETH, N J 07207 RE: 1030 SPRINGFIELD AVE CRANFORD, NJ 07016 RE: 727 GALLOWS HILL RE

Block-Lot: 151-14-~QFARM FAIRVIEW MANOR LLC 831 SPRINGFIELD AVENUE Block-Lot: 132-6 POLITO: EDWARD & PATRICIA 1056 COOLIDGE ST CRANFORD, NJ 07016 RE: 831 SPRINGFIELD AVENUE CRANFORD, N J 07016 RE: 1056 COOLIDGE ST

Block-Lot: 126-4

FOWNE: DAVID & MELANIE

CRANFORD, N J 07016 RE: 34 HARVARD RD

Block-Lot: 123-1

SCHNITZER, KAREN & CACIOPPI, THEO 30 HARVARD RD CRANFORD, NJ 07016 RE: 30 HARVARD RD

26 COLBY LN CRANFORD, NJ 07016 RE: 37 HARVARD RD CRANFORD, N J 07016 RE: 26 COLBY LN Block-Lot: 122-13 CRANFORD, NJ 07016 RE: 35 HARVARD RD Block-Lat: 123-3

Block-Lot: 122-11 CRANFORD, N J 07016

Block-Lot: 122-9 RANFORD, N J 07016

Block-Lot: 130-23

CRANFORD, N J 07016 RE: 34 CORNELL RD

CRANFORD, N J 07016 RE: 32 CORNELL RD

RE: 7 YALE TERR

Block-Lot: 124-8

Block-Lot: 124-6

15 YALE TERRACE

RE: 15 YALE TERR

Block-Lot: 131-1

CRANFORD, NJ 0701

RE: 1059 COOLIDGE S'

FAIRVIEW MANOR LLC 831 SPRINGFIELD AVE CRANFORD, NJ 07016 RE: 831 SPRINGFIELD AVE

SPINNER: KARL & LORI

RANFORD, N J 07016

Block-Lot: 151-13

RE: 24 COLBY LN

RE: 8 CORNELL RD

Block-Lot: 126-16

BAYTALA: JOHN S & LORI P 31 BROWN TERR

Block-Lot: 126-15 NOVELLO: FRANCES M TRUST 29 BROWN TERR CRANFORD, N J 07016 RE: 29 BROWN TERR

CRANFORD, N J 07016 RE: 31 BROWN TERR

Block-Lot: 126-9

3 PENN RD

BANGE, MICHAEL & LAROSA, KE

CRANFORD, NJ 07016 RE: 9 YALE TERR

9 YALE TERR

Block-Lot: 130-21

Block-Lot: 122-25 UNION CTY COLLEGE FTD? 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: 995 SPRINGFIELD AVE Block-Lot: 126-8 MAURIELLO: ANTHONY & SUSAN CRANFORD, N J 07016 RE: 36 CORNELL RD

Block-Lot: 122-8 CRANFORD, N J 07016 RE: 25 HARVARD RD Block-Lot: 122-3

MORITZ: RICHARD S & JULIANNE 2 CRANFORD, N J 07016 RE: 30 BROWN TERR RE: 32 BROWN TERR Block-Lot: 122-1 USZKO: PAUL M, ANN (LE) CRANFORD, N J 07016 RE: 34 BROWN TERR Block-Lot: 121-2.02

Block-Lot: 105-1 ADMIN BLDG/ETOWN PLAZA

ELIZABETH, N J 07207 RE: 1030 SPRINGFIELD AVE Block-Lot: 126-10 Block-Lot: 130-6 STEVENS: SUSAN J CRANFORD, N J 07016

RE: 10 COLBY LN Block-Lot: 130-4 6 COLBY LN CRANFORD, N J 07016

Block-Lot: 130-2 CRANFORD, N J 07016 RE: 2 COLBY LN

RE: 6 COLBY LN

Block-Lot: 130-65 RE:726 QALIOWS HILL RD CRANFORD, N J 07016 RE: GALLOWS HILL RD REAF

12 CORNELL RD CRANFORD, N J 07016 RE: 12 CORNELL RD

CRANFORD, N J 07016 RE: 28 COLBY LN

Block-Lot: 126-2 MANN: ABBY M 30 COLBY LN CRANFORD, N J 07016 RE: 30 COLBY LN

CRANFORD, NJ 07016 RE: 32 COLBY LN

Block-Lot: 121-3 UNION COLLEGE 1033 SPRINGFIELD AVE CRANFORD, N J 07016 RE: COLBY LN REAR

Block-Lot: 151-12

CRANFORD, N J 07016 RE: 5 PENN RD

Block-Lot: 132-4 HULL, MATTHEW & JENNIFER 1048 COOLIDGE ST

CRANFORD, NJ 07016 RE: 1048 COOLIDGE ST

Block-Lot: 121-2.01

Block-Lot: 126-17

Block-Lot: 130-10

CRANFORD, N J 07016 RE: 18 COLBY LN

Block-Lot: 130-9 GONGALVES: JOSE L 16 COLBY LN CRANFORD, N J 07016 RE: 16 COLBY LN

LOWE: RANDOLPH S & TERESA A

AOTTS: JOHN & THERESA STASN

Block-Lot: 130-8

14 COLBY LN

RE: 14 COLBY LN

Block-Lot: 130-7

Block-Lot: 130-66.01

Block-Lot: 130-64

No Data

CRANFORD, N J 07016 RE: 724 GALLOWS HILL RD

HOEFLING, KENNETH & CARMEL/ 33 BROWN TERR

KOKAI: JOHN C & PETRACCA: MARIA

CRANFORD TWP, NJ 07016 RE: 33 BROWN TERR

5 PENN RD

Block-Lot: 121-5 UNION COLLEGE

No Data

FAU, ANDREW & JENNIFE

Block-Lot: 126-1

32 COLBY LN

Block-Lot: 126-3 KUSH: DEBRA A, MARY

28 COLBY LN

Comcast Cablevision C/O - Corporation Trust Co. 820 Bear Tavern Road West Trenton, NJ 08628

1025 Laurel Oak Road Voorhees, NJ 08043

Elizabethtown Gas Compan Engineering Department

Manager---Corporate Properties 80 Park Plaza, T6B Newark, NJ 07101

Attn: Chief Engineer 1050 East Hazelwood Avenue Rahway, NJ 07065

Municipal and Utilities Contact List (as of 10/30/2017)

Executive Offices 1 Verizon Way Attn: Corporate Secretary Basking Ridge, NJ 07920

520 Green Lane Union, NJ 07083 Public Service Electric & Gas Company

Rahway Valley Sewerage Authority

Westfield Leader: legals@goleader.com Phone: 908-232-4407

The Star Ledger: legalads@njadvancemedia.com Phone: 732-902-4318 Fax: 732-243-2750

RCHITECTS 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

MD Lic. #19079

Veri Offwireless

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 By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

(973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

1033 SPRINGFIELD AVE CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1 2 01 2 02 3 & 5. BLOCK: 122 LOT: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/1
4		
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
1	FINAL ZONING DRAWINGS	04/12/1
0	PRELIMINARY ZONING DRAWINGS	11/28/1
SSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE
SHE	ET TITLE:	

200 FT PROPERTY OWNERS LIST

PROJECT No: VER3818 W-1128

NJ09961B

SITE DESIGNATIO UNION COUNTY COLLEGE

AMA SHEET No

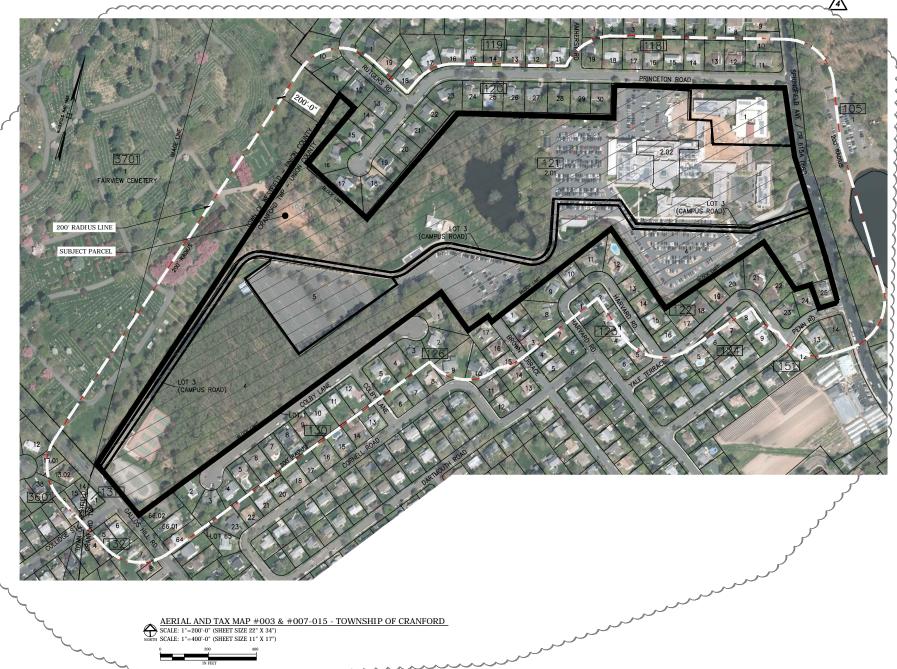
Z2

11/28/18

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

WESTFI	ELD	CRAM	FORD	OWNER & ADD	RESS	REPORT	04/08/19 Page 1
BLOCK 3601	LOT 12	QUAL	CLA 2	PROPERTY OWNER GILLHAUS, PATRICIA B 1945 HADDING ST WESTFIELD, NJ	07090	PROPERTY LOCATION 1045 MARDING ST	Add'l Lots
3601	13.01		2	MELVIN, THOMAS P & KATHLI 1044 HARDING ST WESTFIELD, NJ	O7090	1044 HARDING ST	
3601	13.02		2	JAKUB, JOHN A & NANCY L 260 GALLOWS HILL RD WESTFIELD, NJ	07090	260 GALLOWS HILL RD	
3601	14		1	ASSESSED IN CRANFORD	00000	1059 COOLIDBE ST - REAR	
3601	15		2	BRAUMAN, MICHAEL J & DANA 1055 COOLIDGE ST WESTFIELD, NJ	07090	1055 COOLIDGE ST	
3601	16		2	FERNANDEZ, RUBEN & KHOURY 945 WOODLAWN AVE LINDEN, NJ	7, CLAUDIA 07036	1051 COOLINGE ST	
3601	36		1	COLICCHIO HOMES LLC 817 JERSUSALEM RD SCOTCH PLAINS, NJ	07076	1032 HARDING ST	
3701	ä		15E	FAIRVIEW CEMETERY P.O. BOX 850 WESTFIELD, NJ	07090	1100 E BROAD ST	

TOWN OF WESTFIELD PUBLIC UTILITIES



350 Clark Drive | Suite 304

Mount Olive, NJ 07828 **O** 973-726-7164 |**F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Date

Frank Colasurdo, RA

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079 APPLICANT/CLIENT:

Veri Offwireless

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**

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

-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054 (973) 397-4800

WIRELESS COMMUNICATION

"WESTFIELD 4" 1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5, BLOCK: 122 LOT: 25 UNION COUNTY

4	
3 REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS 05/1	0/1
2 REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS 04/1	9/1
1 FINAL ZONING DRAWINGS 04/1	2/1
0 PRELIMINARY ZONING 11/2 DRAWINGS	3/1
ISSUE NO. DESCRIPTION OF CHANGE DATE	

TAX MAP & 200 FT PROPERTY OWNERS LIST

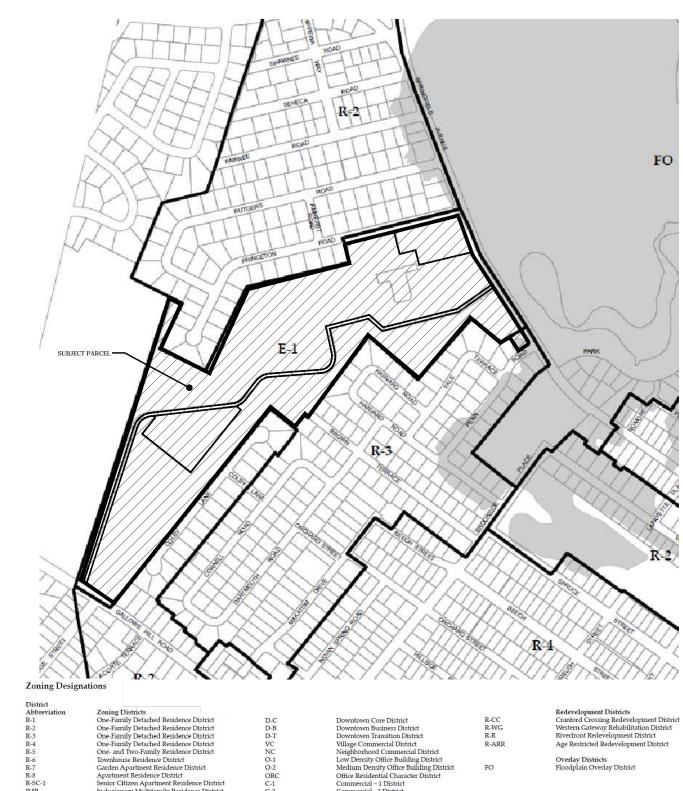
PROJECT No: VER3818 W-1128 NJ09961B

SITE DESIGNATION: UNION COUNTY

COLLEGE

AMA

Z2A



One- and involved Residence District Townhouse Residence District Garden Apartment Residence District Apartment Residence District Senior Citizen Apartment Residence District Inclusionary Multifamily Residence District

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
Office Residential Character District
Commercial - 1 District
Commercial - 2 District
Commercial - 3 District
Education District
Public Use District

FO

Overlay Districts Floodplain Overlay District

RCHITECTS

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

Frank Colasurdo Architects, Inc

Date

Frank Colasurdo, RA

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

MD Lic. #19079 APPLICANT/CLIENT:

Veri Onwireless

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 By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC.

4 Sylvan Way Parsippany, NJ 07054 (973) 397-4800

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: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/
4		
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/
1	FINAL ZONING DRAWINGS	04/12/
0	PRELIMINARY ZONING DRAWINGS	11/28/
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE **AERIAL AND ZONING MAP**

PROJECT No: VER3818 W-1128 NJ09961B

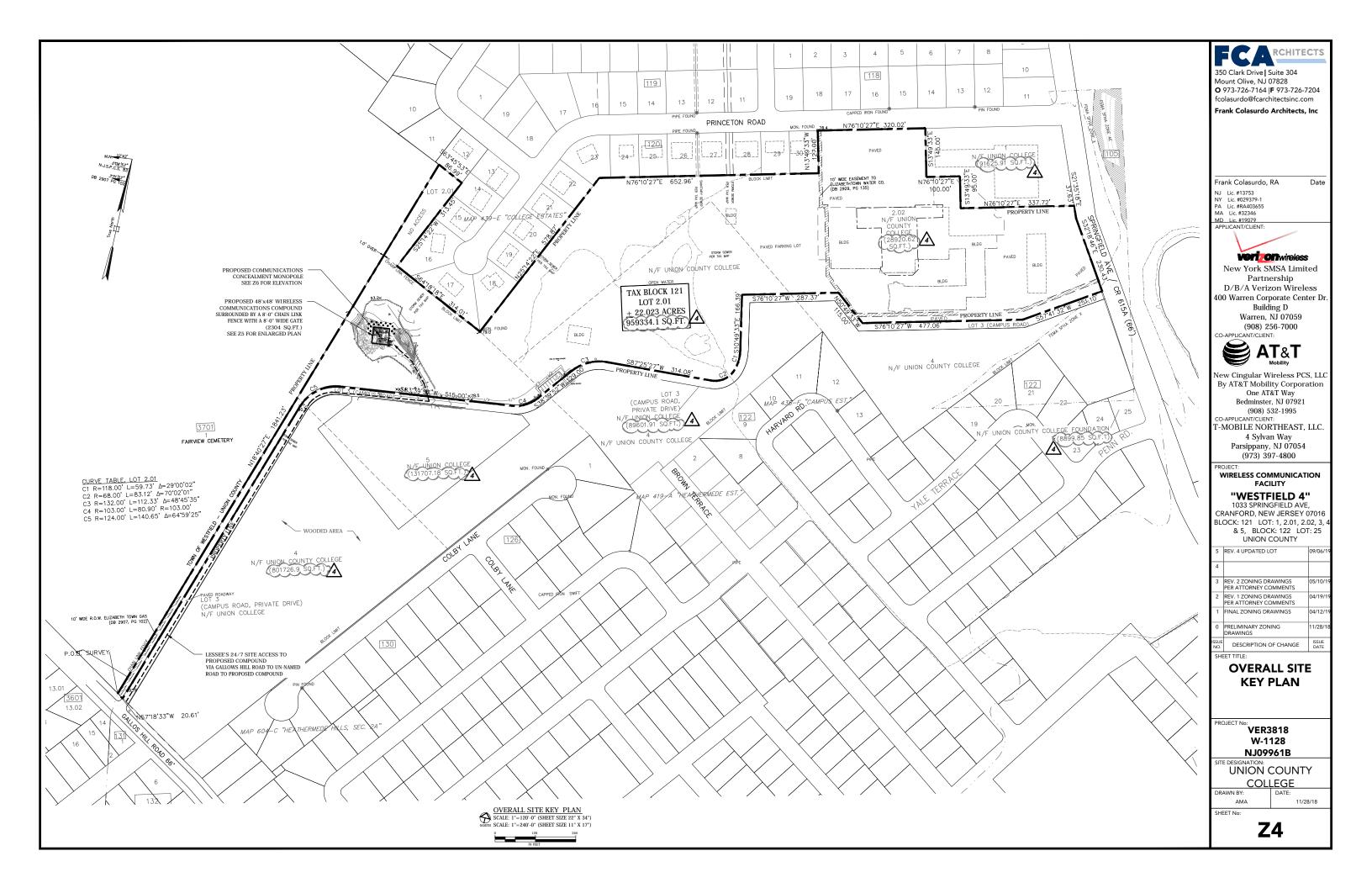
UNION COUNTY

COLLEGE AMA

SHEET No:

Z3

TOWNSHIP OF CRANFORD - ZONING MAP



REGULATIONS FOR THE "E-1"- EDUCATION DISTRICT REOUIRED BULK REGULATIONS EXISTING PROPOSED COMMENTS MAX. BUILDING HEIGHT ORD. 255-37 G(1)(a) ± 35'-0" TO TOP OF EXISTING NO BUILDING PROPOSED 7'-1" TO TOP OF VERIZON EQUIPMENT 5'-5" TO TOP OF T-MOBILE EQUIPMENT 10'-7" TO TOP OF AT&T EQUIPMENT OR 35'-0" 84'-3" TO PROPOSED COMPOUND 89'-8" TO AT&T PROPOSED GENERATOR 99'-2" TO AT&T PROPOSED EQUIPMENT MIN. INTERIOR PROP. LINE SETBACK ORD. 255-37 G(1)(b) 68'-0" OVER TO EXISTING BUILDING** (LOT 2.01) 50'-0" 12'-9" TO PROPOSED MONOPOLE FOUNDATION NO BUILDING PROPOSED 2069'-1" TO PROPOSED COMPOUND MIN. STREET R.O.W. SETBACK: 55'-6" TO EXISTING BUILDING * 3x BLDG, HEIGH 2087'-11" TO T-MOBILE PROP. GENERATOR ORD. 255-37 G(1)(b) (INCLUDING ALL LOTS) 2086'-7" TO VERIZON PROP. EQUIPMENT 2095'-8" TO PROPOSED MONOPOLE FOUNDATION MIN. LOT AREA: ORD. 255-37 G(1)(c) 48.48 AC. (2111816.47SQ. FT. {ALL LOTS}) NO CHANGE 45 ACRES MAX. FLOOR AREA RATIO: 16x THE TOTAL ±0.214 NO BUILDING PROPOSED ±61.1% (2111816.47SQ{ALL LOTS} / MIN. OPEN SPACE RATIO: 60% OF THE ±61.0% (2111816.47SO{ALL LOTS} / 824754.86SO) ORD. 255-37 G(1)(e) TOTAL LOT AREA 822450.86SQ) REQUIRED SCREENING: 15'-0" FROM EXISTING WOODED AREA (NO TREES TO BE REMOVED) ORD. 255-37 G(1)(f) RESIDENTIAL ZONE * DENOTES VARIANCE ** DENOTES EXISTING NON-CONFORMING

REFERENCE DRAWINGS:

1) FIELD MEASUREMENTS TAKEN ON 12/08/2015 BY FC Architects

BLOCK: 121 LOT: 2.01

BLOCK: 121 LOT: 4 = 801726.9 SQ.FT.

BLOCK: 121 LOT: 5 = 131707.18 SQ.FT.

BLOCK: 122 LOT: 25 = 8899.85 SQ.F.T

TOTAL 2111816.47 SQ.FT

BLOCK: 121 LOT: 2.02

BLOCK: 121 LOT: 3

= 959334.1 SQ.FT

= 28920.62 SO.FT.

= 89601.91 SO.FT.

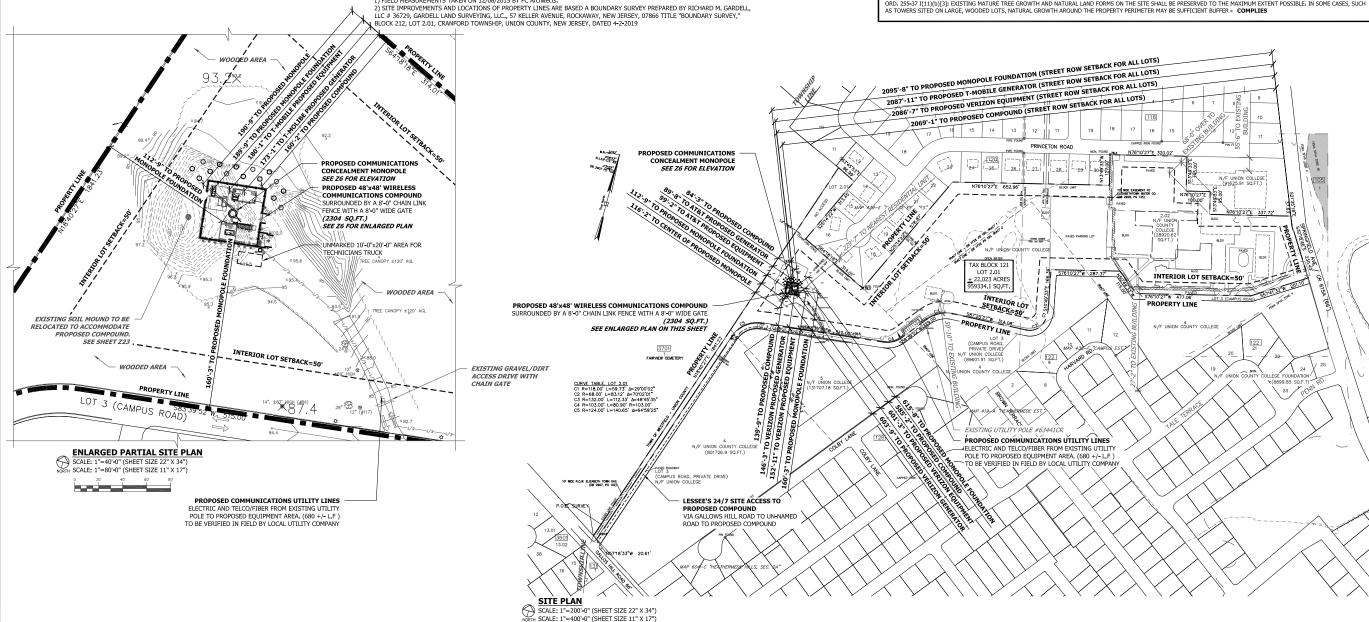
REGULATIONS FOR TELECOMMUNICATIONS ANTENNAS AND TOWERS TOWNSHIP OF CRANFORD, NEW JERSEY

BULK REGULATIONS	REQUIRED	EXISTING	PROPOSED	COMMENTS
MAX TOWER HEIGHT: ORD. 255-37 I(10)(a)	70'-0"	NO EXISTING TOWER	140'-0" TO TOP OF MONOPOLE * 148'-0" TO TOP OF CONCEALMENT BRANCHES * 143'-0" TO TOP OF VERIZON ANTENNA * 133'-0" TO TOP OF AT&T ANTENNAS * 124'-0" TO TOP OF T-MOBILE ANTENNAS *	
MIN. SETBACKS: ORD. 255-37 I(10)(b)	125% OF TOWER HEIGHT (1.25 x 148' = 185')	NO EXISTING TOWER	112'-9" TO PROPOSED MONOPOLE FOUNDATION *	
SEPARATION DISTANCE - ANY ZONE DISTRICT WHICH RESIDENTIAL USE IS PERMITTED: ORD. 255-37 I(10)(c)	300'-0" OR 300% OF TOWER - WHICHEVER IS > TO RESIDENTIAL UNIT (3.00 x 148' = 444')	NO EXISTING TOWER	229'-7" TO NEAREST RESIDENTIAL UNIT * (BLOCK:119, LOT:17)	
MIN. SECURITY FENCING HEIGHT: ORD. 255-37 I(11)(a)	6'-0"	NONE EXISTING	8'-0" HIGH CHAIN LINK FENCE	
MAX. CABINET/STRUCTURE AREA: ORD. 255-37 I(12)(a)[1]	200 SQ. FT. GROSS FLOOR AREA	NONE EXISTING	41.5 SQ.FT. AT&T PROP. EQUIPMENT 10.1 SQ.FT. T-MOBLIE PROP. EQUIPMENT 16 SQ.FT. VERIZON PROP. EQUIPMENT	
MAX. CABINET/STRUCTURE HEIGHT: ORD. 255-37 I(12)(a)[1]	12'-0"	NONE EXISTING	10'-7" TO TOP OF AT&T PROP. EQUIPMENT 5'-5" TO TOP OF T-MOBILE PROPOSED EQUIPMENT 7'-1' TO TOP OF VERIZON PROP. EQUIPMENT	

- * DENOTES VARIANCE
- ** DENOTES EXISTING NON-CONFORMING

ORD. 255-37 I(4)(d)[1]: TOWER SHALL EITHER MAINTAIN A GALVANIZED STEEL FINISH OR, SUBJECT TO ANY APPLICABLE STANDARDS OF THE FAA, BE PAINTED A NEUTRAL COLOR, SO AS TO REDUCE VISUAL OBTRUSIVENESS. - COMPLIES

ORD. 255-37 I(11)(b)[3]: EXISTING MATURE TREE GROWTH AND NATURAL LAND FORMS ON THE SITE SHALL BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. IN SOME CASES, SUCH AS TOWERS SITED ON LARGE, WOODED LOTS, NATURAL GROWTH AROUND THE PROPERTY PERIMETER MAY BE SUFFICIENT BUFFER - COMPLIES



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 Lic. #029379-PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079 APPLICANT/CLIENT

Verionwireless **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 By AT&T Mobility Corporation One AT&T Wav Bedminster, N1 07921 (908) 532-1995

T-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

(973) 397-4800 WIRELESS COMMUNICATION

"WESTFIELD 4"

1033 SPRINGFIELD AVE CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5, BLOCK: 122 LOT: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/1
4	REV. 3 BULK CHART	07/11/1
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
1	FINAL ZONING DRAWINGS	04/12/1
0	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE

SITE PLAN & ZONING **INFORMATION**

VER3818 W-1128 NJ09961B

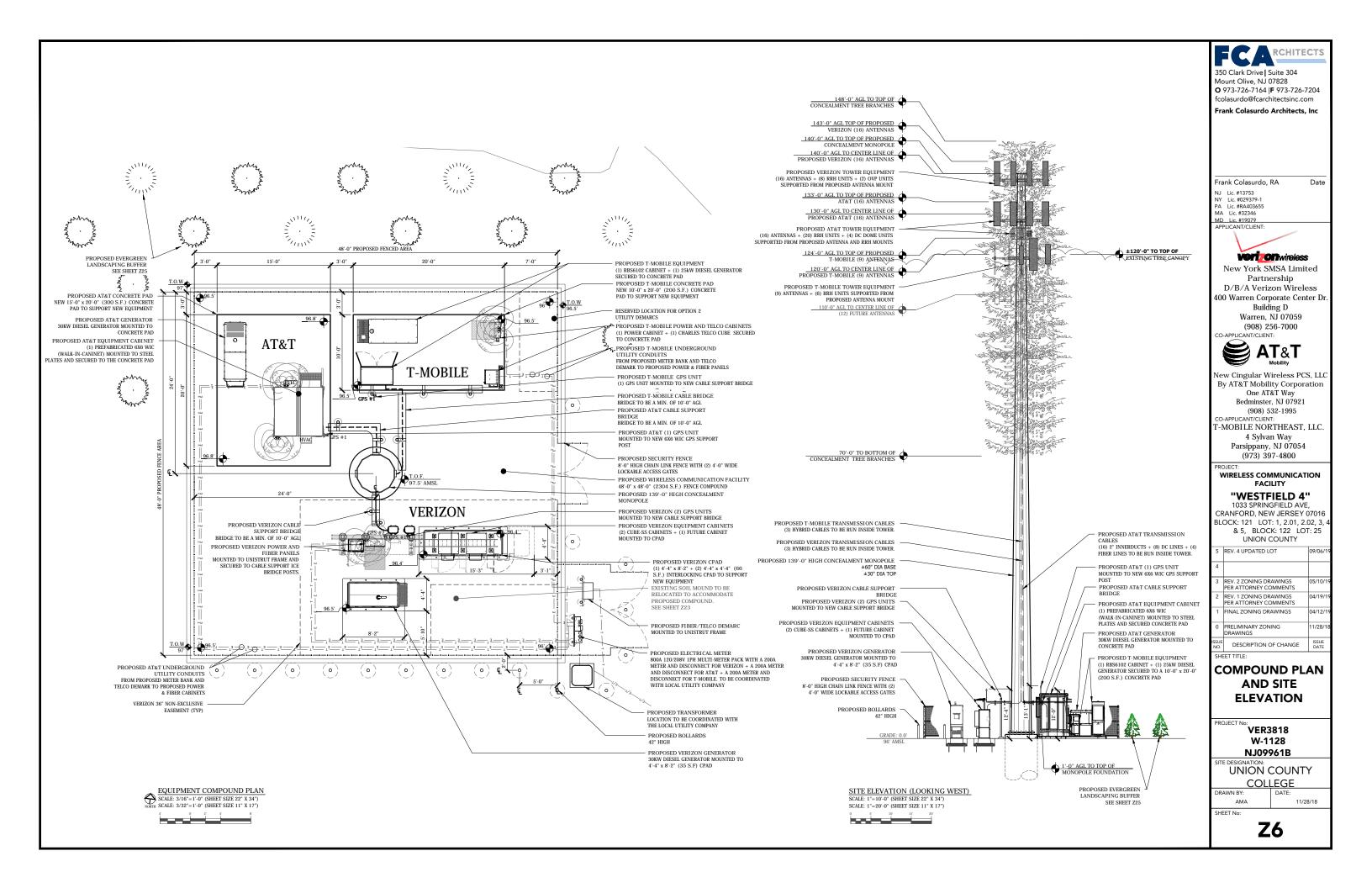
UNION COUNTY COLLEGE

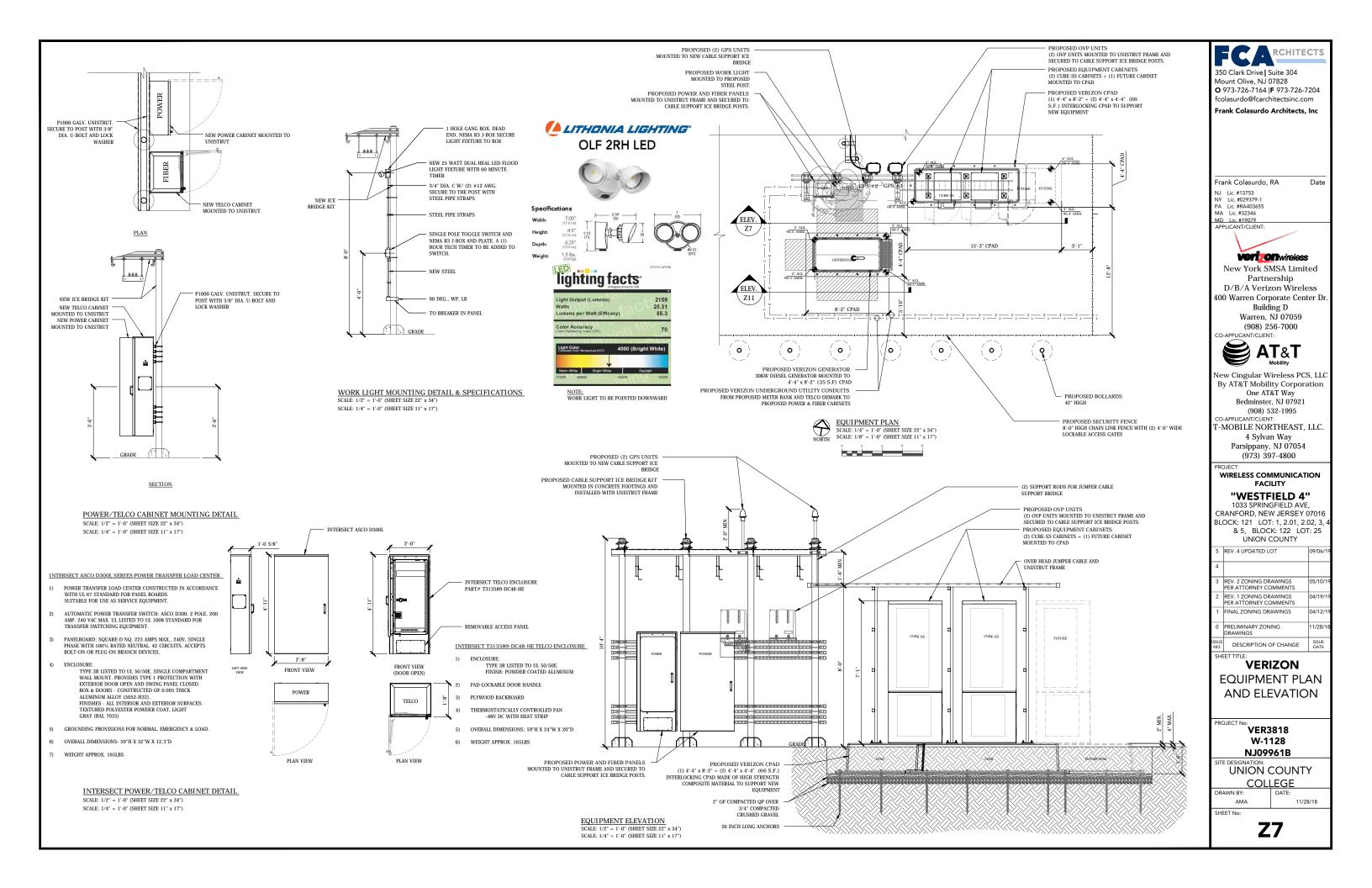
AMA

SHEET No

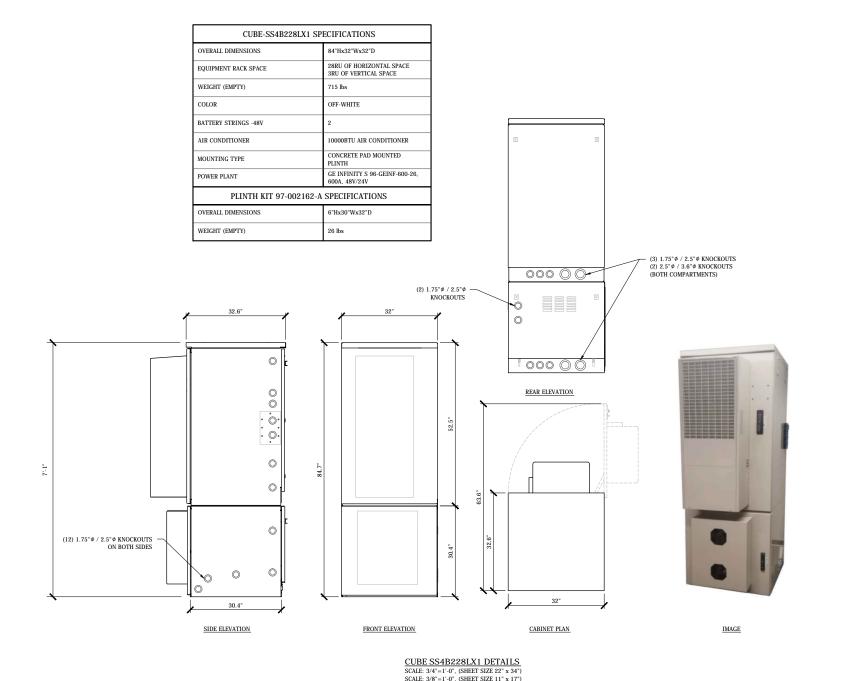
Z5

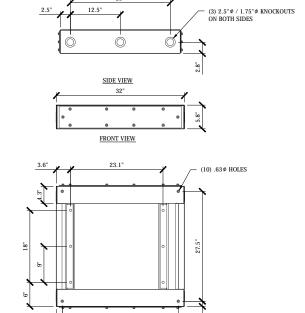
11/28/18





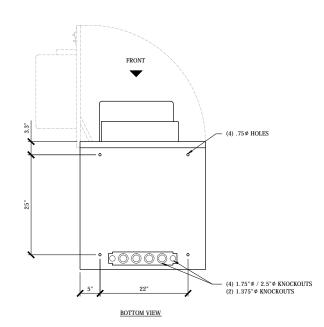
CHARLES INDUSTRIES CUBE-SS4B228LX1 CONFIGURATION SPECIFICATIONS





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

BOTTOM VIEW



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



O 973-726-7164 | F 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo, RA

NJ Lic. #13753

NY Lic. #029379-1

PA Lic. #8A403655

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
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

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: 25

5	REV. 4 UPDATED LOT	09/06/1
4		
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
1	FINAL ZONING DRAWINGS	04/12/1
0	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

VERIZON EQUIPMENT

CABINET

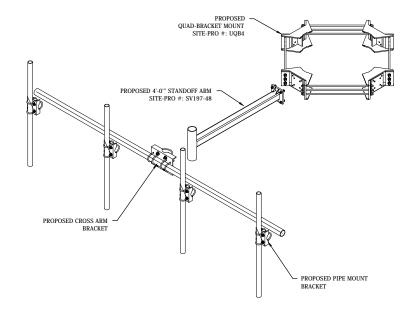
SPECIFICATIONS

VER3818 W-1128 NJ09961B

TE DESIGNATION:
UNION COUNTY
COLLEGE

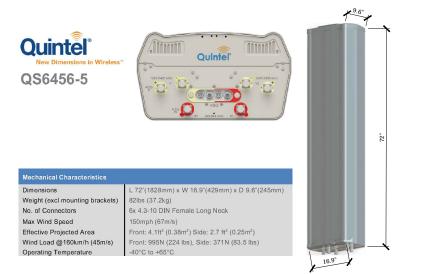
DRAWN BY: DA

_

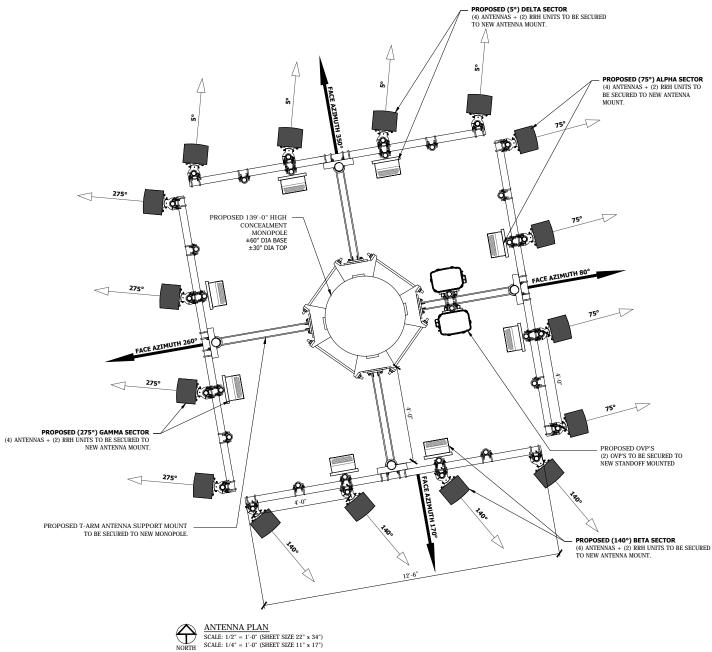


ANTENNA MOUNT EXPLODED ASSEMBLY ISO (TYP OF 4 SECTORS)

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



ANTENNA SPECIFICATIONS NOT TO SCALE



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

Date

Frank Colasurdo, RA

NJ Lic. #13753

NY Lic. #029379-1

PA Lic. #RA403655

MA Lic. #32346

MD Lic. #19079

APPLICANT/CLIENT:

Veri on 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:



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: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/1
4		
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
1	FINAL ZONING DRAWINGS	04/12/1
	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

SHEET TITLE:
VERIZON

ANTENNA PLAN AND SPECIFICATIONS

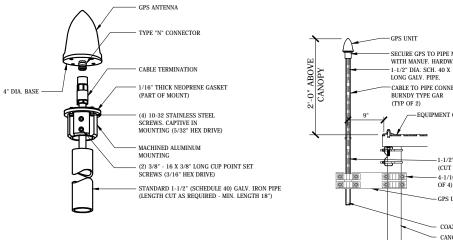
PROJECT No:

VER3818 W-1128 NJ09961B

SITE DESIGNATION:
UNION COUNTY
COLLEGE

DRAWN BY: AMA

SHEET No:



ENLARGED GPS UNIT DETAIL NO SCALE

SECURE GPS TO PIPE MOUNT, WITH MANUF. HARDWARE -1-1/2" DIA. SCH. 40 X 18" CABLE TO PIPE CONNECTOR -EQUIPMENT CANOPY 1-1/2" DIA. SCH 40 PILE, 24" LONG (CUT TO FIT) -4-1/16" HALF CLAMP, 1/4" THICK (TYP. OF 4) - GPS UNIVERSAL MOUNT KIT COAX CABLE CANOPY POST

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

- AROUNTING: FOLE 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+

BOTTOM 12.12"

SIDE

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

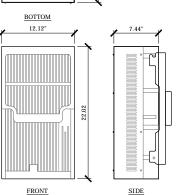
FRONT

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

(WITHOUT BRACKETS) 83.77 LBS
-MOUNTING: POLE OR WALL MOUNTABLE
-RF OUTPUT POWER
-40W PER BAND, 80W PER TX
-DC VOLTAGE:
-48V / -38V TO -60V
-DC POWER CONSUMPTION
- 688W (ETSI 24H AVG - 4X20W PER BAND,
40W PER TX PORT)
- ANTENNA PORTS: 4 PORTS , 4.3-10+

BOTTOM



RRH (LOW BAND) SPECIFICATIONS SCALE: 1-1/2" = 1'-0" (22" X 34" SHEE 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

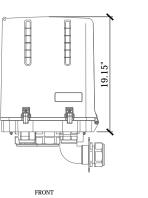
MOUNTING: POLE OR WALL MOUNTABLE

- MOUNTING: POLE OR WALL MOUNTABLE
- NOMINAL DEPEATING VOLTAGE: 48 VDC
- NOMINAL DISCHARGE CURRENT: 20KA 8/20 US
- MAXIMUM SURGE CURRENT: 60 KA 8/20 US
- VOLTAGE PROTECTION: 400V
- FIEBE CONNECTION METHOD: LC-LC SINGLE MODE
- SUPPRESSION CONNECTION METHOD: COMPRESSION LUG, #20-#6 AWG

15.73" BOTTOM

MOUNTING BRACKET NOT SHOWN FOR CLARITY

10.31"



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

RCHITECTS 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: **Vert Off**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:



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054 (973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4" 1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 25

UNION COUNTY REV. 4 UPDATED LOT REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS FINAL ZONING DRAWINGS PRELIMINARY ZONING DRAWINGS DESCRIPTION OF CHANGE

> **VERIZON** RRH'S & GPS **DETAILS &**

SPECIFICATIONS

*VER3818 W-1128

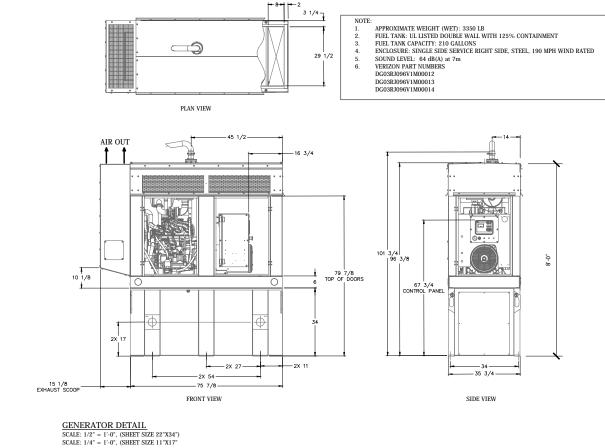
NJ09961B UNION COUNTY

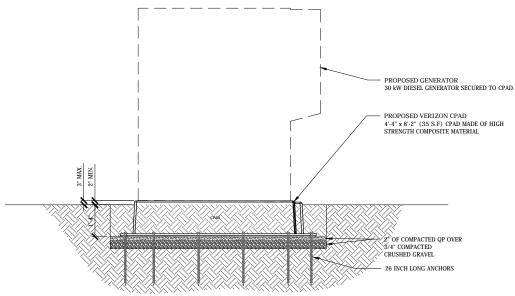
COLLEGE AMA

SHEET No:

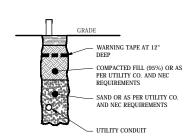
30 kW DIESEL GENERATOR 120/208V, 1 PHASE

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





GENERATOR CPAD 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") RCHITECTS

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:

Veri Offwireless New York SMSA Limited

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



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC 4 Sylvan Way Parsippany, NJ 07054 (973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 25 UNION COUNTY

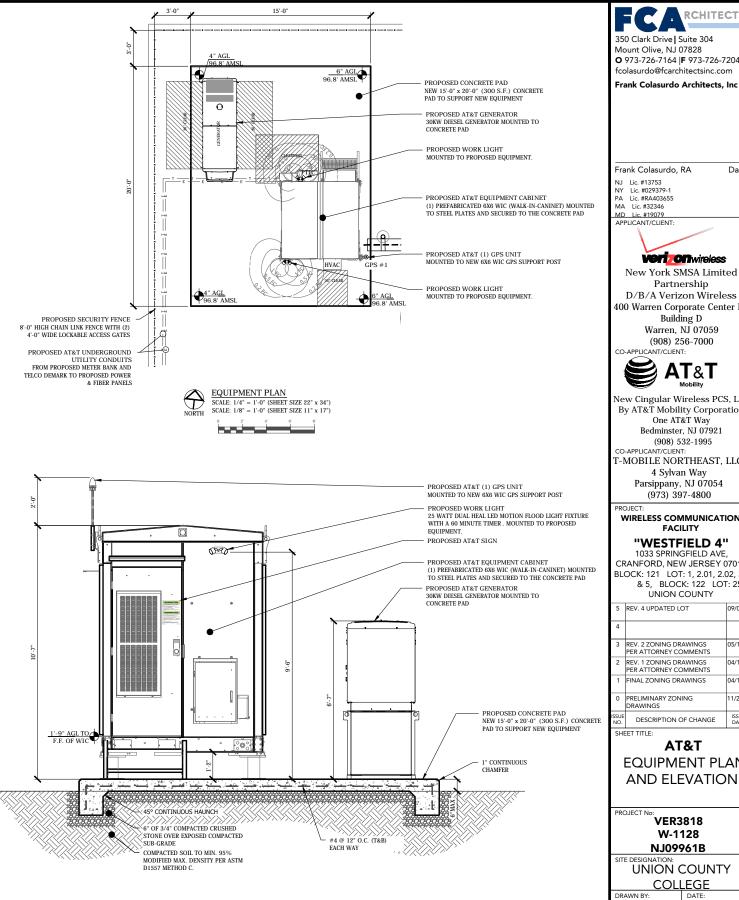
5	REV. 4 UPDATED LOT	09/06/1
4		
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
1	FINAL ZONING DRAWINGS	04/12/1
	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

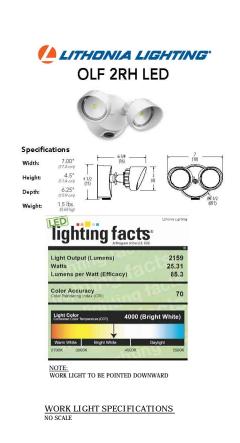
VERIZON GENERATOR SPECIFICATIONS

PROJECT No: VER3818 W-1128 NJ09961B

UNION COUNTY COLLEGE

AMA





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

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

Date

Vert Offwireless

Partnership D/B/A Verizon Wireless 400 Warren Corporate Center Dr. Building D Warren, NJ 07059



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 Γ-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

WIRELESS COMMUNICATION FACILITY

1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5, BLOCK: 122 LOT: 25

	5	REV. 4 UPDATED LOT	09/06/1
	4		
	3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
	2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
	1	FINAL ZONING DRAWINGS	04/12/1
	0	PRELIMINARY ZONING DRAWINGS	11/28/1
3	ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

EQUIPMENT PLAN AND ELEVATION

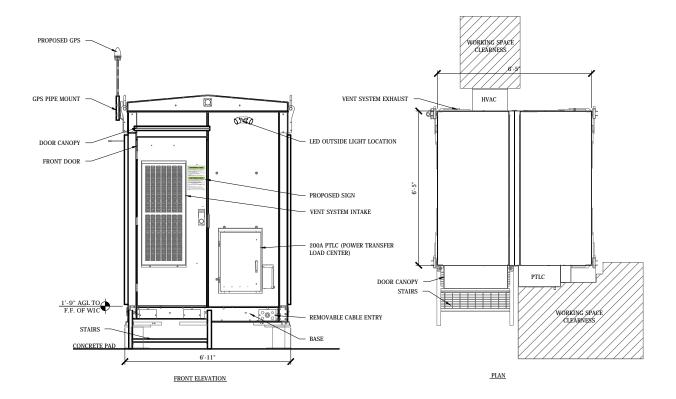
W-1128

UNION COUNTY

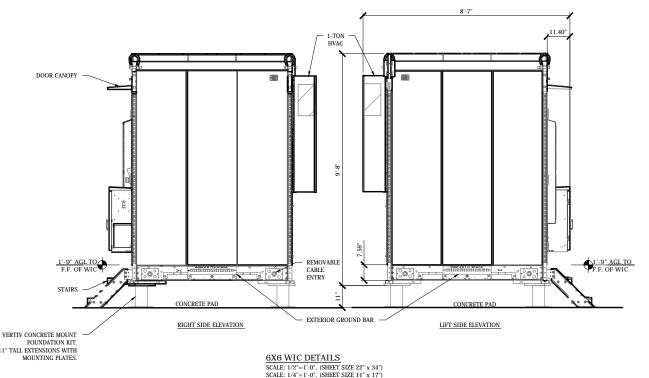
AMA

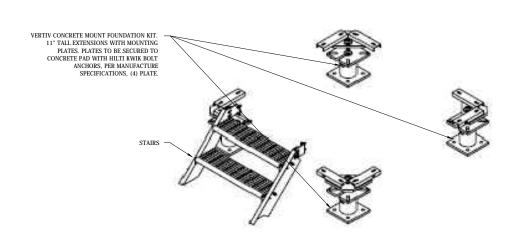
SHEET No:

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









CONCRETE MOUNT KIT DETAIL

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 **O** 973-726-7164 |**F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Date

Frank Colasurdo, RA

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079 APPLICANT/CLIENT:

Veri Offwireless

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 By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC 4 Sylvan Way Parsippany, NJ 07054

WIRELESS COMMUNICATION FACILITY

(973) 397-4800

"WESTFIELD 4"

1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/
4		
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/
1	FINAL ZONING DRAWINGS	04/12
0	PRELIMINARY ZONING DRAWINGS	11/28/
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

AT&T **EQUIPMENT**

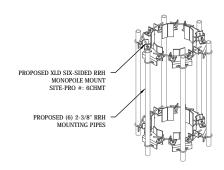
CABINET

SPECIFICATIONS

VER3818 W-1128 NJ09961B

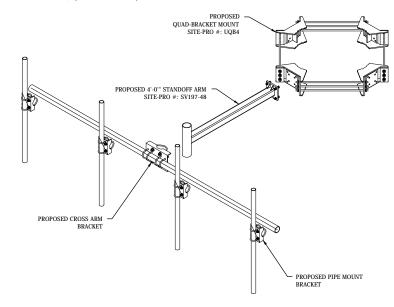
UNION COUNTY

COLLEGE



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")

COMMSCOPE®

NNHH-65B-R4

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

35.1 kg | 77.4 lb

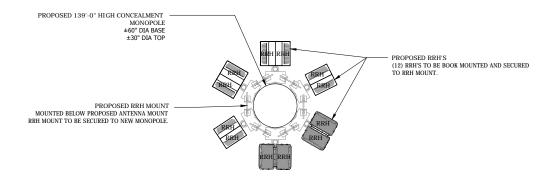


Dimensions

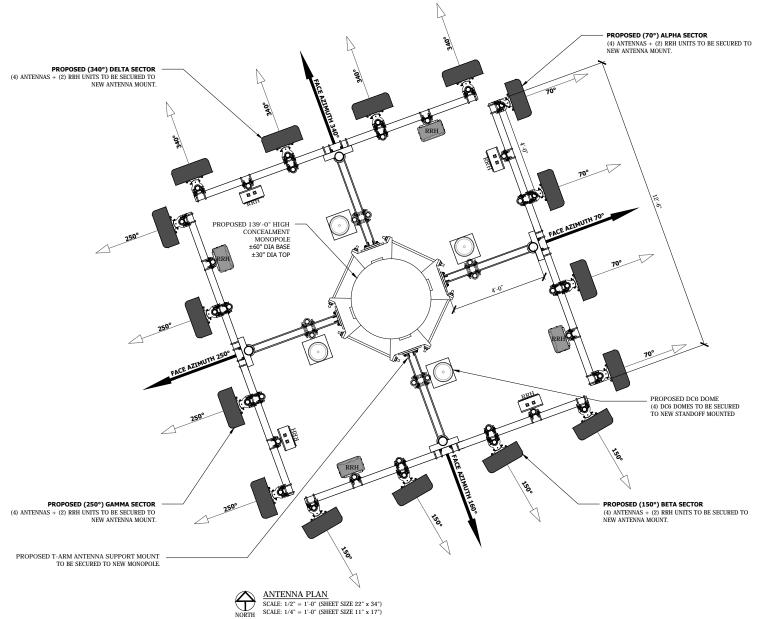
1828.0 mm | 72.0 in Width 498.0 mm | 19.6 in 197.0 mm | 7.8 in

Net Weight, without mounting kit

ANTENNA SPECIFICATIONS NOT TO SCALE







RCHITECTS

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 **O** 973-726-7164 |**F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Date

Frank Colasurdo, RA

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079 APPLICANT/CLIENT:

Veri Onwireless

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:



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

New Cingular Wireless PCS, LLC

(973) 397-4800

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: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/1
4		
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
1	FINAL ZONING DRAWINGS	04/12/1
	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO	DESCRIPTION OF CHANGE	ISSUE

SHEET TITLE:

AT&T ANTENNA PLAN AND DETAILS

PROJECT No: VER3818 W-1128 NJ09961B

UNION COUNTY

COLLEGE AMA

SHEET No



- DIMENSIONS: 13.26" H x 11.6" W x 6.5" D (CORE) - WEIGHT

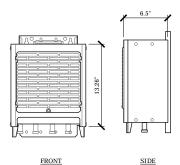
- WEIGHT
(WITHOUT BRACKETS) 36.8 LBS
- MOUNTING: POLE, WALL MOUNTABLE, RAS, VERTICAL OR HORIZONTAL
BOOK MOUNT
- RF OUTPUT POWER

- 4T 4R 40W/ 2T4R 60W - DC VOLTAGE:

- DC VOLTAGE:
-48V / -36V TO -60V
-DC POWER CONSUMPTION
207W @ (ETSI 24H AVG - 4X20W MODE)
- ANTENNA PORTS: 4/4 TX/RX



BOTTOM



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)

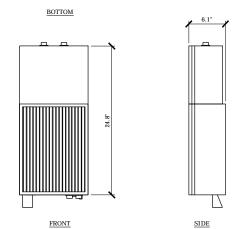
- DIMENSIONS: 24.8" H x 11.4" W x 6.1" D (WITH SOLAR SHIELD)

- WEIGHT (WITHOUT BRACKETS) 52 LBS - MOUNTING: POLE OR WALL MOUNTABLE - RF OUTPUT POWER

- 2X40W OR 2X30W - DC VOLTAGE:

-DC POWER CONSUMPTION
-300W (AT 2X40W CONTINUOUS RF POWER)
-260W (AT 2X30W CONTINUOUS RF POWER)

11.4"



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)

- WELGHT
(WITHOUT BRACKETS) 77 LBS
- MOUNTING: POLE, WALL MOUNTABLE, RAS, VERTICAL OR HORIZONTAL BOOK MOUNT

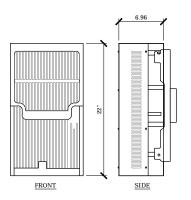
- RF OUTPUT POWER

- 80W PER TX PORT SHARED BETWEEN BANDS (4X40W PER BAND)

- 80W PER TX PORT SHARED BETWEEN BANDS (4X40W PER BAN - 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



BOTTOM



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)

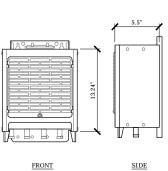
4" DIA. BASE

- WEIGHT
(WITHOUT BRACKETS) 34.17 LBS
- MOUNTING: POLE, WALL MOUNTABLE
- RF OUTPUT POWER
- 4T 4R 25W/TX
- DC VOLTAGE:

- DC VOLTAGE:
-48V / -36V TO -60V
-DC POWER CONSUMPTION
ESTIMATED 515W @100%
- ANTENNA PORTS: 4/4 TX/RX



BOTTOM



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 - AHFIB)

- DIMENSIONS: 22" H x 12.12" W x 5.86" D (WITH SOLAR SHIELD)

- WEIGHT

- WEIGHT
(WITHOUT BRACKETS) 60 LBS
- MOUNTING: POLE, WALL MOUNTABLE, RAS, VERTICAL OR HORIZONTAL BOOK MOUNT

- RF OUTPUT POWER

- GPS ANTENNA

TYPE "N" CONNECTOR

(PART OF MOUNT)

MACHINED ALUMINUM

ENLARGED GPS UNIT DETAIL NO SCALE

1/16" THICK NEOPRENE GASKET

(4) 10-32 STAINLESS STEEL

SCREWS. CAPTIVE IN MOUNTING (5/32" HEX DRIVE)

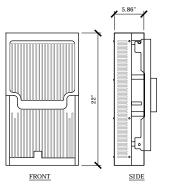
(2) 3/8" - 16 X 3/8" LONG CUP POINT SET SCREWS (3/16" HEX DRIVE)

STANDARD 1-1/2" (SCHEDULE 40) GALV. IRON PIPE (LENGTH CUT AS REQUIRED - MIN. LENGTH 18")

- BAND 25 - 4X40W, BAND 66 - 4X40W

- BAND 25 - 4X40W, BAND 66 - 4X40W - DC VOLTACE: -48V / -36V TO -60V -DC POWER CONSUMPTION 525W (ETSI 24H AVG - 4X20W PER BAND, 40W PER TX PORT) - ANTENNA PORTS: 4 PORTS TX/RX

BOTTOM



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

SUPPORT FRAME PIPE -

GPS MOUNTING DETAIL NOT TO SCALE

GPS PIPE SUPPORT

SUPPORT FRAME PIPE

NOTES: 1) 9.7" Ø X 23.5" H (NOT INCLUDING FRAME)

INSTALL WITHIN 6 FEET OF RRH 60kA SURGE CURRENT CAPACITY PER CIRCUIT

SEE DETAIL A ON THIS SHEET SECURE GPS TO PIPE MOUNT. WITH MANUF.

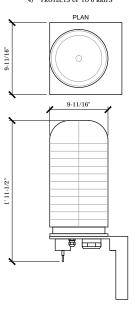
-1-1/2" DIA. SCH. 40 X 18" LONG

VALMONT PIPE CLAMP

TYPE GAR (TYP OF 2)

COAX CABLE

CABLE TO PPE CONNECTOR BURNDY



DC SUPPRESSOR SPECIFICATIONS

RCHITECTS 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:

Vert Offwireless

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: S AT&T

New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

(973) 397-4800

1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/
4		
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/
1	FINAL ZONING DRAWINGS	04/12/
0	PRELIMINARY ZONING DRAWINGS	11/28/
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE
CLIF	CT TITLE.	

AT&T RRH'S & GPS **DETAILS AND SPECIFICATIONS**

VER3818 W-1128 NJ09961B

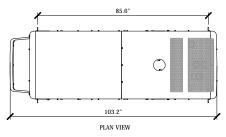
UNION COUNTY COLLEGE

AMA 11/28/18

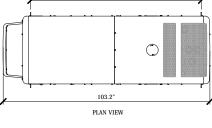
SHEET No:

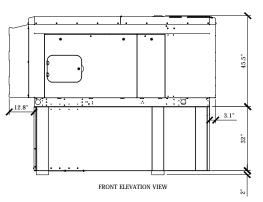
30 kW DIESEL GENERATOR 120/208V, 1 PHASE

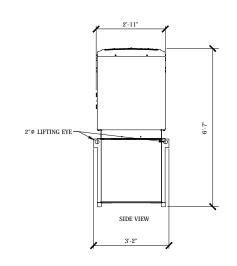
GENERATOR TO BE INSTALLED WITH SOUND ATTENUATION ENCLOSURE LEVEL 2



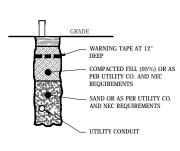
- APPROXIMATE WEIGHT (WET): 2236 LBS
- AFFROMANALE WEIGHT (WELT): 2.230 LBS
 FUEL TANK: LLISTED DOUBLE WALL WITH 110% CONTAINMENT
 FUEL TANK CAPACITY: 195 CALLONS
 ENCLOSURE: ALLUMINUM METERIAL, DURABLE POWDER COAT
 PAINT, 180 MPH WIND RATED
- SOUND LEVEL: 67.5 dB(A) at 7m



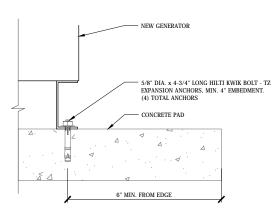




GENERATOR DETAIL SCALE: 1/2" = 1'-0", (SHEET SIZE 22"X34") SCALE: 1/4" = 1'-0", (SHEET SIZE 11"X17"



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")

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:

Veri Offwireless

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



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

WIRELESS COMMUNICATION

FACILITY

(973) 397-4800

"WESTFIELD 4" 1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016

BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 25 UNION COUNTY

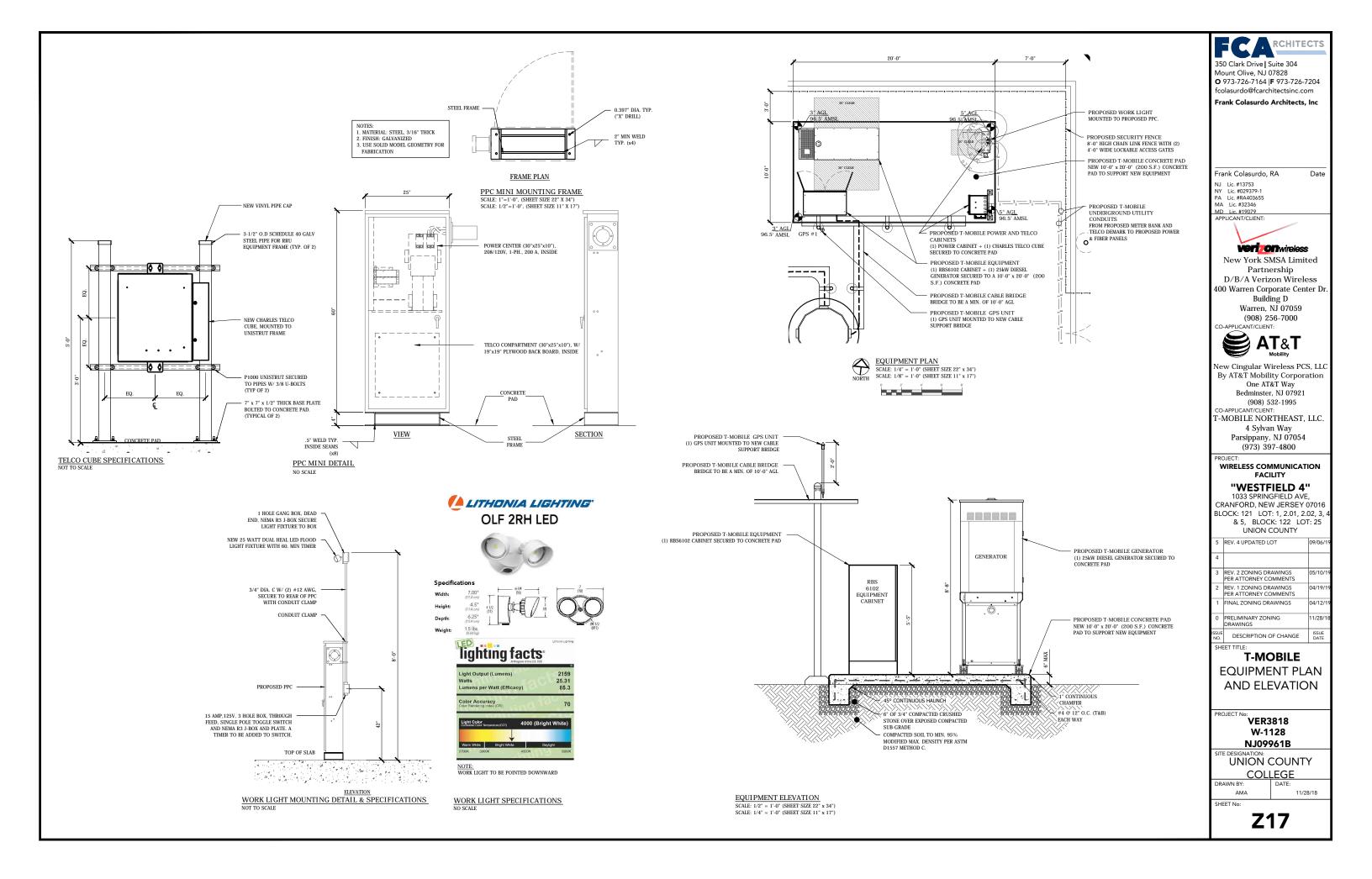
5	REV. 4 UPDATED LOT	09/0
4		
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/1
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/1
1	FINAL ZONING DRAWINGS	04/1
0	PRELIMINARY ZONING DRAWINGS	11/2
ISSUE NO.	DESCRIPTION OF CHANGE	ISS DA

AT&T **GENERATOR SPECIFICATIONS**

PROJECT No: VER3818 W-1128 NJ09961B

UNION COUNTY COLLEGE

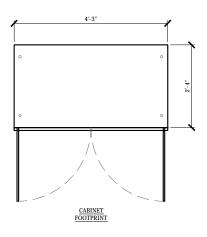
AMA

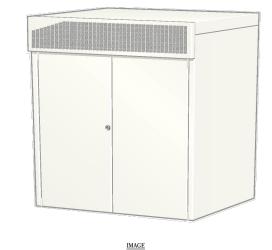


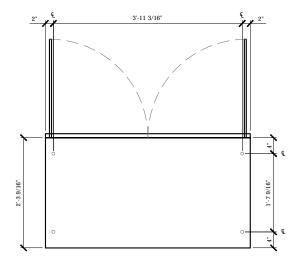
RBS 6102 CONFIGURATION SPECIFICATIONS

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)







PROPOSED T-MOBLE SIGN

SIDE ELEVATION

FRONT ELEVATION

SIDE ELEVATION

RBS 6102 BOLTING DETAIL

SCALE: 3/4"=1'-0", (SHEET SIZE 22" x 34")

SCALE: 3/8"=1'-0" (SHEET SIZE 11" x 17")

RBS 6102 CABINET DETAILS SCALE: 3/4"=1'-0", (SHEET SIZE 22" x 34") SCALE: 3/8"=1'-0", (SHEET SIZE 11" x 17") 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. #8A403655

MA Lic. #132346

MD. Lic. #19079

APPLICANT/CLIENT:

Veri Offwireless
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
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

ROJECT:

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: 25 UNION COUNTY

ĺ	5	REV. 4 UPDATED LOT	09/06/1				
ı	4						
ĺ		REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1				
ı		REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1				
ĺ	1	FINAL ZONING DRAWINGS	04/12/1				
ı	0	PRELIMINARY ZONING DRAWINGS	11/28/1				
ı	ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE				

T-MOBILE

EQUIPMENT CABINET

SPECIFICATIONS

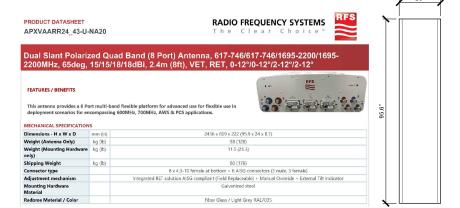
VER3818 W-1128 NJ09961B

SITE DESIGNATION:
UNION COUNTY

COLLEGE
DRAWN BY: DATE:

SHEET No:

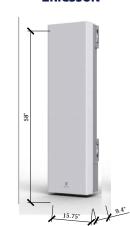




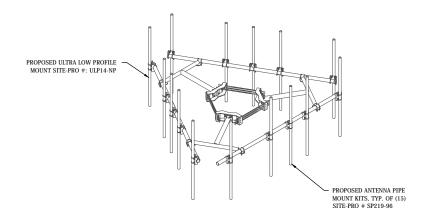
ERICSSON

AIR 3246 DUAL BAN

- 32 TX/RX per band
- > Frequency bands: B66/B25
- 320 W total RF output power
-) 90/65 MHz IBW
-) 60 MHz LTE CBW / Band
-) Interface: 4 x 25Gb CPRI
- > Size (H x W x D):1475x400x300 mm (estimated)
- Weight: TBD Kg
- > -48v DC, 3 wire or 2 wire
- Optional 120/240 VAC
- > Target availability late Q4-2019

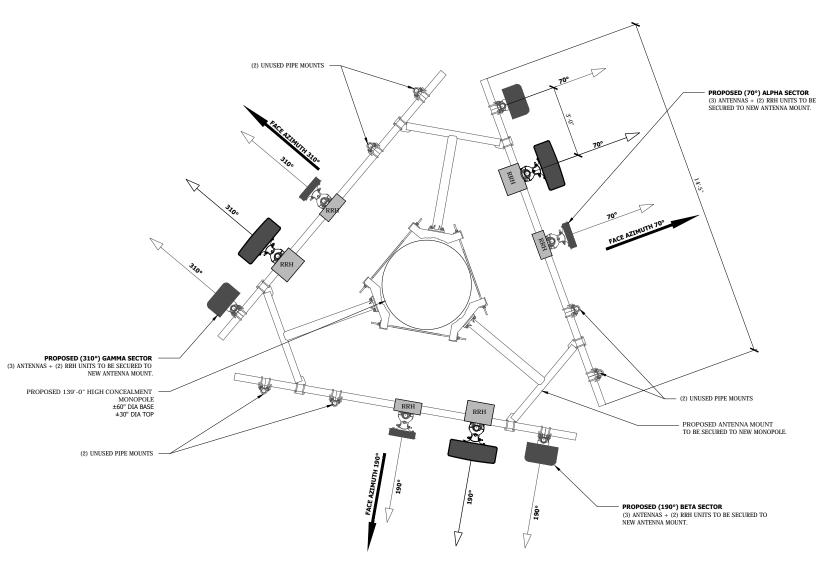


ANTENNA SPECIFICATIONS
NOT TO SCALE



ANTENNA MOUNT

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





RCHITECTS 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:

Veri Offwireless

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: S AT&T

New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC.

4 Sylvan Way Parsippany, NJ 07054 (973) 397-4800

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: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/1
4		
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1
1	FINAL ZONING DRAWINGS	04/12/1
	PRELIMINARY ZONING DRAWINGS	11/28/1
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

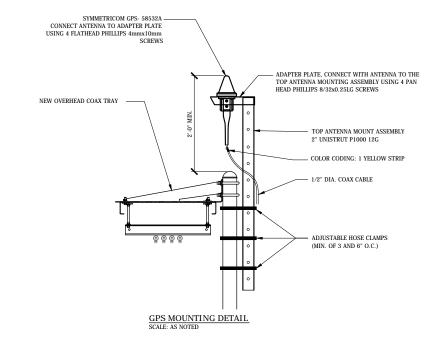
T-MOBILE ANTENNA PLAN AND DETAILS

PROJECT No: VER3818 W-1128 NJ09961B

UNION COUNTY COLLEGE

AMA

SHEET No



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
- 4 T 4"
- DC VOLTAGE:

-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 570-680W @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)

RCHITECTS 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:

Veri Onwireless

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 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

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: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/1		
4				
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1		
	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1		
1	FINAL ZONING DRAWINGS	04/12/1		
0	PRELIMINARY ZONING DRAWINGS	11/28/1		
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE		

SHEET TITLE: T-MOBILE

RRH'S & GPS **DETAILS AND SPECIFICATIONS**

PROJECT No: VER3818 W-1128 NJ09961B

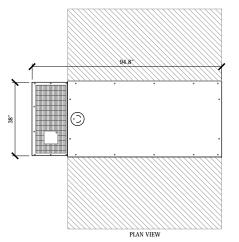
UNION COUNTY

COLLEGE

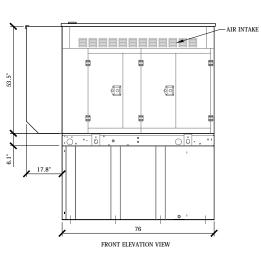
AMA SHEET No:

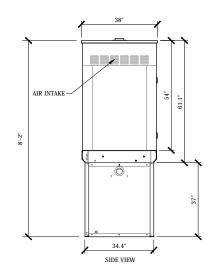
25 kW DIESEL GENERATOR 120/208V, 1 PHASE

GENERATOR TO BE INSTALLED WITH SOUND ATTENUATION ENCLOSURE LEVEL 2



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





SPRING ISOLATOR, (8) TOTAL

PER ISOLATOR

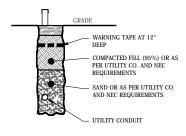
CONCRETE PAD

3/8" DIA. x 3-3/4" LONG HILTI KWIK BOLT TZ

EXPANSION ANCHORS, MIN. 3" EMBEDMENT (4)

GENERATOR DETAIL

SCALE: 1/2" = 1'-0", (SHEET SIZE 22"X34") SCALE: 1/4" = 1'-0", (SHEET SIZE 11"X17"





GENERATOR TIE DOWN DETAIL

RCHITECTS 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:

Veri Offwireless

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



New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC. 4 Sylvan Way

Parsippany, NJ 07054 (973) 397-4800

WIRELESS COMMUNICATION FACILITY

"WESTFIELD 4"

1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 25 UNION COUNTY

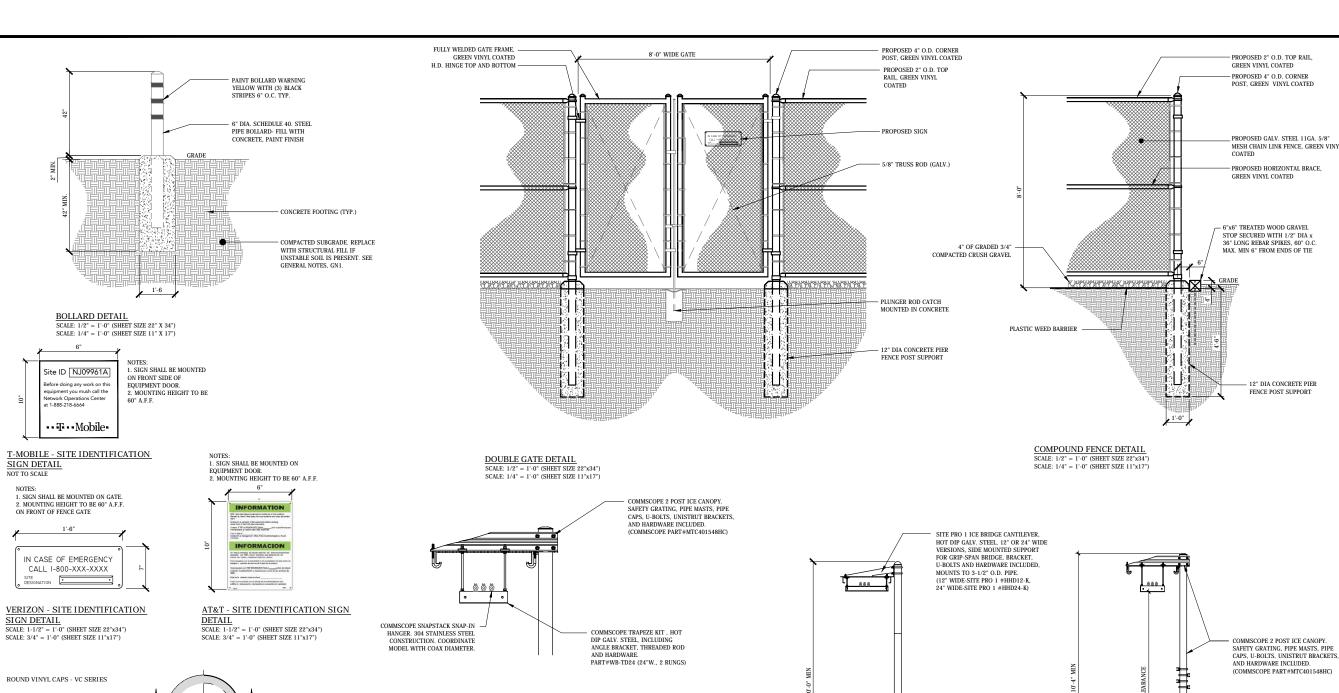
5	REV. 4 UPDATED LOT	09/06/1				
4						
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/1				
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/1				
1	FINAL ZONING DRAWINGS	04/12/1				
0	PRELIMINARY ZONING DRAWINGS	11/28/1				
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE				

T-MOBILE **GENERATOR SPECIFICATIONS**

PROJECT No: VER3818 W-1128 NJ09961B

UNION COUNTY COLLEGE

AMA



ROUND VINYL CAPS - VC SERIES

SERIES VC CAPS ARE EXTREMELY FLEXIBLE AND DURABLE PROTECTIVE CLOSURES WHICH ARE IDEAL FOR USE AS THREAD PROTECTORS. DUST AND MOISTURE SEALS, PIPE AND STUD END COLOR CODING, AND FOR MASKING DURING PAINTING OR PLATING OPERATIONS. IF YOUR APPLICATION IS EXPOSED TO EXTREME HEAT, TRY OUR HVC SERIES THE HVC SERIES IS MANUFACTURED IN OUR FLEX500® MATERIAL THAT OFFERS HEAT RESISTANCE UP TO AND BEYOND 500°F.
CAPLUGS FLEX500® MATERIAL MAINTAINS THE SAME FLEXIBLE NATURE OF STANDARD VINYL, BUT OFFERS THE ADDED HEAT RESISTANCE FOR FINISHING APPLICATIONS SUCH AS POWDER COATING, E-COATING, AND

MATERIAL: VINYL STANDARD COLOR: BLACK OPTIONAL COLORS: WHITE, BROWN, ORANGE, GREEN, GRAY, BLUE, YELLOW, RED

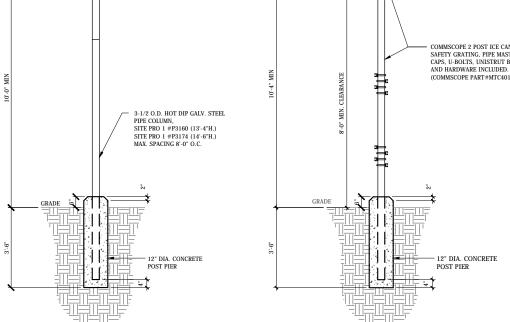
MANUFACTURED BY CAPLUGS: 1-814-868-3671

NOTE: G.C. TO PURCHASE AND INSTALL CAP PLUGS AT G.C. TO PURCHASE AND INSTAIL CAP PLUGS AT PROPOSED AND EXISTING ANTENNA SECTOR MOUNTS. (4) PER MOUNT. AFTER INSTALLATION THE G.C. IS TO DRILL A 1/8" DIA. WEEP HOLE AT THE BASE OF EACH PIPE SUPPORT AT EACH

VINYL PIPE CAP DETAIL NOT TO SCALE

SITE PRO 1 ICE BRIDGE CANTILEVER. HOT DIP GALV. STEEL, 12" OR 24" WIDE VERSIONS, SIDE MOUNTED SUPPORT (3-1/2" OD PIPE) FOR GRIP-SPAN BRIDGE, BRACKET, U-BOLTS AND HARDWARE INCLUDED. MOUNTS TO 3-1/2" O.D. PIPE. (12" WIDE-SITE PRO 1 #HHD12-K, 24" WIDE-SITE PRO 1 #HHD24-K) GALV. STEEL SAFETY GRATED CHANNEL, (11-3/4" W.x10'L. - #GRS12-10 24"W.x10'L. - #GRS24-10) SITE PRO 1 TRAPEZE KIT , HOT DIP GALV. STEEL, INCLUDING Z-BRACKET, THREADED ROD AND HARDWARE. FITS ANY HANGER. STYLE, SINGLE OR DOUBLE STACK #Z12K (12"W., 1 RUNG), #Z24K (24"W., 1 RUNG) #Z12K-D (12"W., 2 RUNGS) #Z24K-D (24"W., 2 RUNGS) SITE PRO 1 TRUE -GRIP SNAP IN

> TRAPEZE COAX SUPPORT SCALE: 1" = 1'-0" (SHEET SIZE 22"x34") SCALE: 1/2" = 1'-0" (SHEET SIZE 11"x17")



OVERHEAD COAX SUPPORT TRAY SCALE: 1/2"=1'-0" (22" X 34" SHEET SIZE) SCALE: 1/4"=1'-0" (11" X 17" SHEET SIZE)

Frank Colasurdo, RA Date NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079 APPLICANT/CLIENT: **Veri Off**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 New Cingular Wireless PCS, LLC By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: Γ-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054 (973) 397-4800 WIRELESS COMMUNICATION FACILITY "WESTFIELD 4" 1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, & 5, BLOCK: 122 LOT: 25 UNION COUNTY REV. 4 UPDATED LOT REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS FINAL ZONING DRAWINGS 14/12/ PRELIMINARY ZONING DESCRIPTION OF CHANGE **MISCELLANEOUS** SITE DETAILS VER3818

W-1128

NJ09961B

UNION COUNTY

COLLEGE

Z22

AMA SHEET No

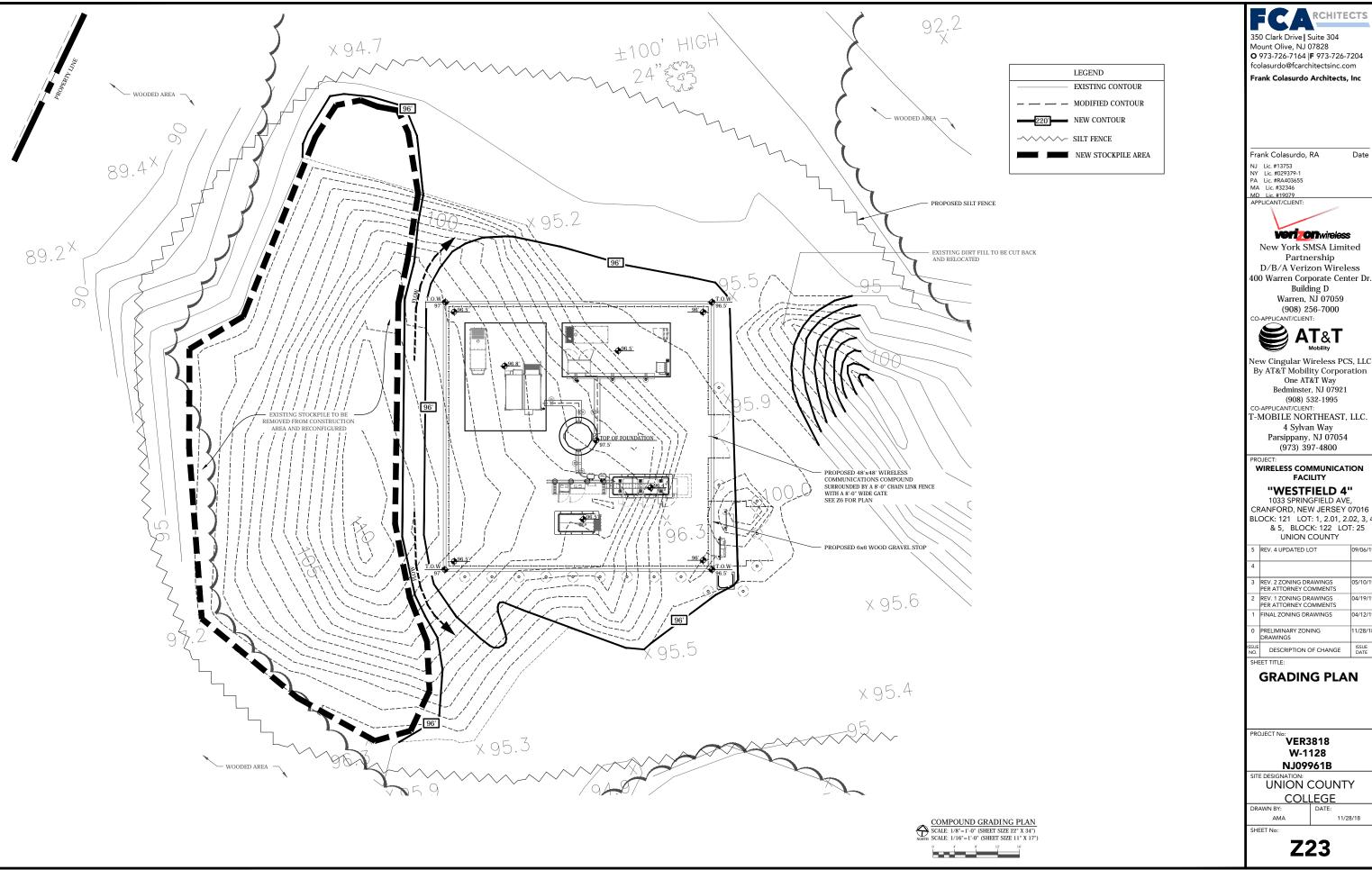
RCHITECTS

350 Clark Drive | Suite 304

O 973-726-7164 | **F** 973-726-7204

fcolasurdo@fcarchitectsinc.com Frank Colasurdo Architects, Inc

Mount Olive, NJ 07828



RCHITECTS

O 973-726-7164 |**F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Date

Veri Onwireless

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



By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 T-MOBILE NORTHEAST, LLC. 4 Sylvan Way Parsippany, NJ 07054

WIRELESS COMMUNICATION FACILITY

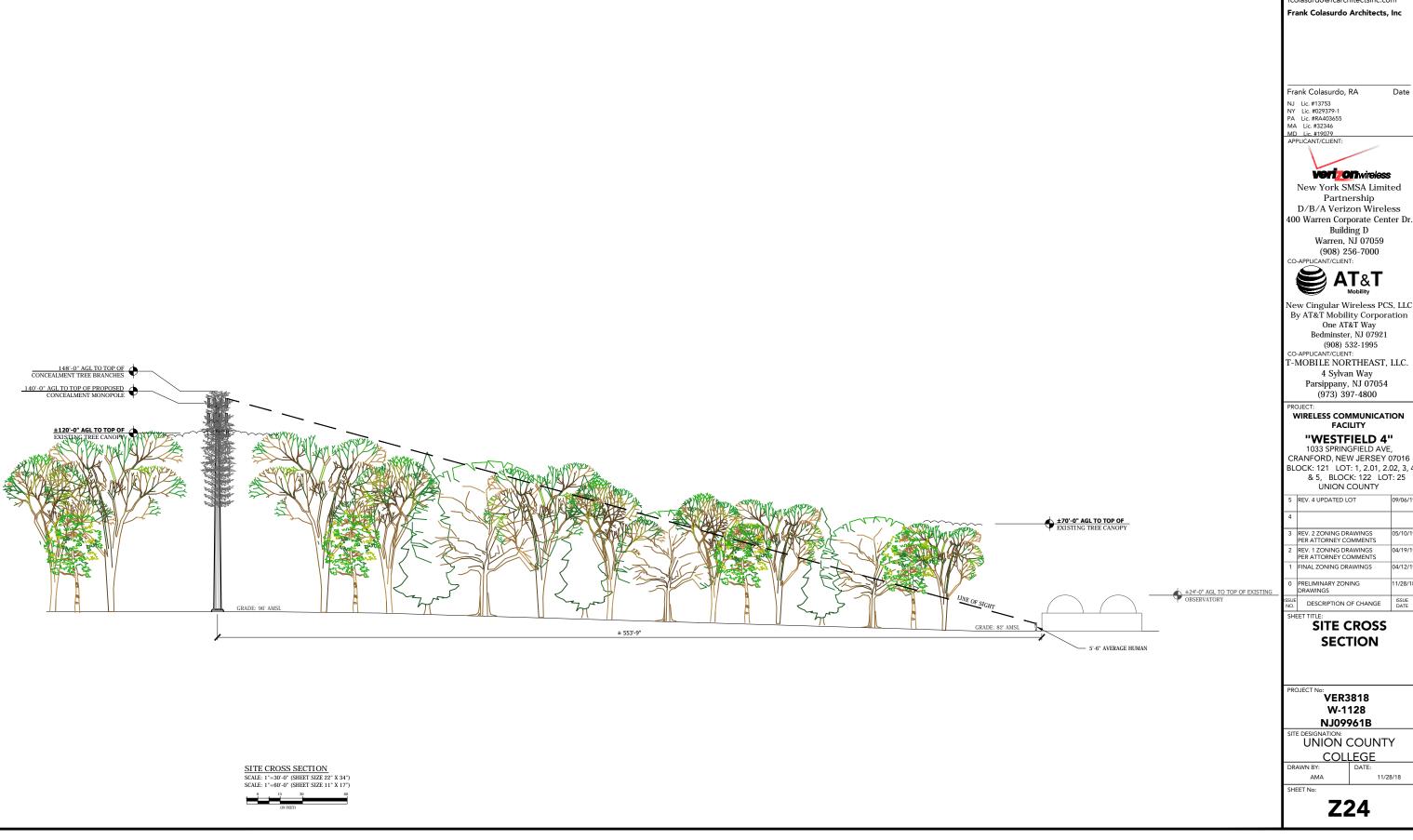
1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5, BLOCK: 122 LOT: 25

5	REV. 4 UPDATED LOT	09/06/19
4		
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/19
	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

GRADING PLAN

W-1128

UNION COUNTY



RCHITECTS

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 **O** 973-726-7164 |**F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

Date

Partnership D/B/A Verizon Wireless 400 Warren Corporate Center Dr. Warren, NJ 07059



By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: T-MOBILE NORTHEAST, LLC.

"WESTFIELD 4"

1033 SPRINGFIELD AVE, CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1, 2.01, 2.02, 3, 4 & 5, BLOCK: 122 LOT: 25

	5	REV. 4 UPDATED LOT	09/06			
	4					
	3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10			
	2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19			
	1	FINAL ZONING DRAWINGS	04/12			
IG	0	PRELIMINARY ZONING DRAWINGS	11/28			
	ISSUE NO.	DESCRIPTION OF CHANGE	ISSU			

SITE CROSS

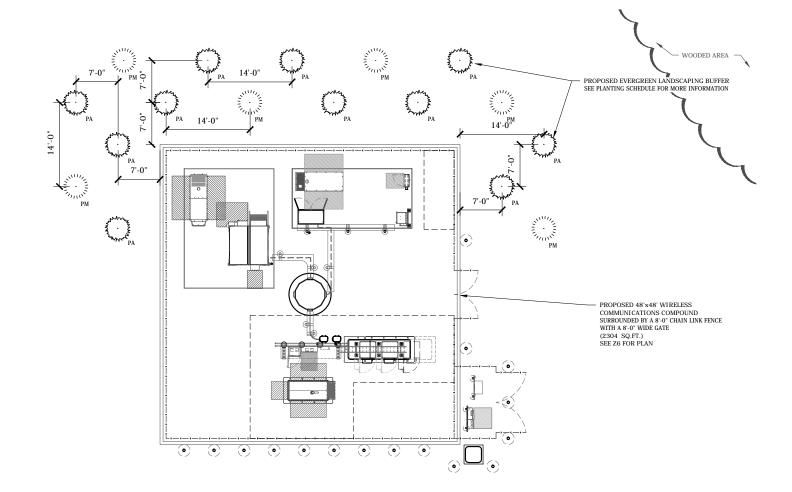
	PLANTING SCHEDULE						
SYMBOL	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	COMMENTS		
PA	Picea abies	"NORWAY SPRUCE"	11	6'-7' IN B&B	EVERGREEN SPECIES, DEER RESISTANT, GROWS WELL IN SUN OR LIGHT SHADE, ZONE 2 TO 7. CAN REACH 40 TO 60 FT TALL.		
PM	Pseudotsuga menziesii	"DOUGLAS FIR"	6	6'-7' IN B&B	EVERGREEN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

NOTE:

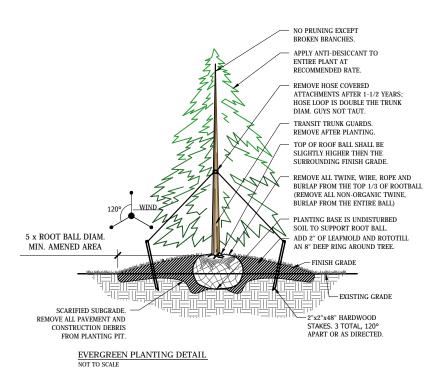
1. ALL LANDSCAPING SHALL BE GUARANTEED BY THE INSTALLER FOR ONE YEAR

2. PRIOR TO PURCHASING OF ANY NEW LANDSCAPING OBTAIN THE TOWNSHIP ENGINEERS APPROVAL FOR TYPES

OF SPECIES INDICATED, NOTIFY THE ARCHITECT OF ANY CHANGES







RCHITECTS

350 Clark Drive | Suite 304 Mount Olive, NJ 07828 **O** 973-726-7164 |**F** 973-726-7204 fcolasurdo@fcarchitectsinc.com

Frank Colasurdo Architects, Inc

Date

Frank Colasurdo, RA

NJ Lic. #13753 NY Lic. #029379-1 PA Lic. #RA403655 MA Lic. #32346 MD Lic. #19079 APPLICANT/CLIENT:

Veri Offwireless

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 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

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: 25 UNION COUNTY

5	REV. 4 UPDATED LOT	09/06/19
4		
	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10/19
_	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19/19
1	FINAL ZONING DRAWINGS	04/12/19
	PRELIMINARY ZONING DRAWINGS	11/28/18
ISSUE NO.	DESCRIPTION OF CHANGE	ISSUE DATE

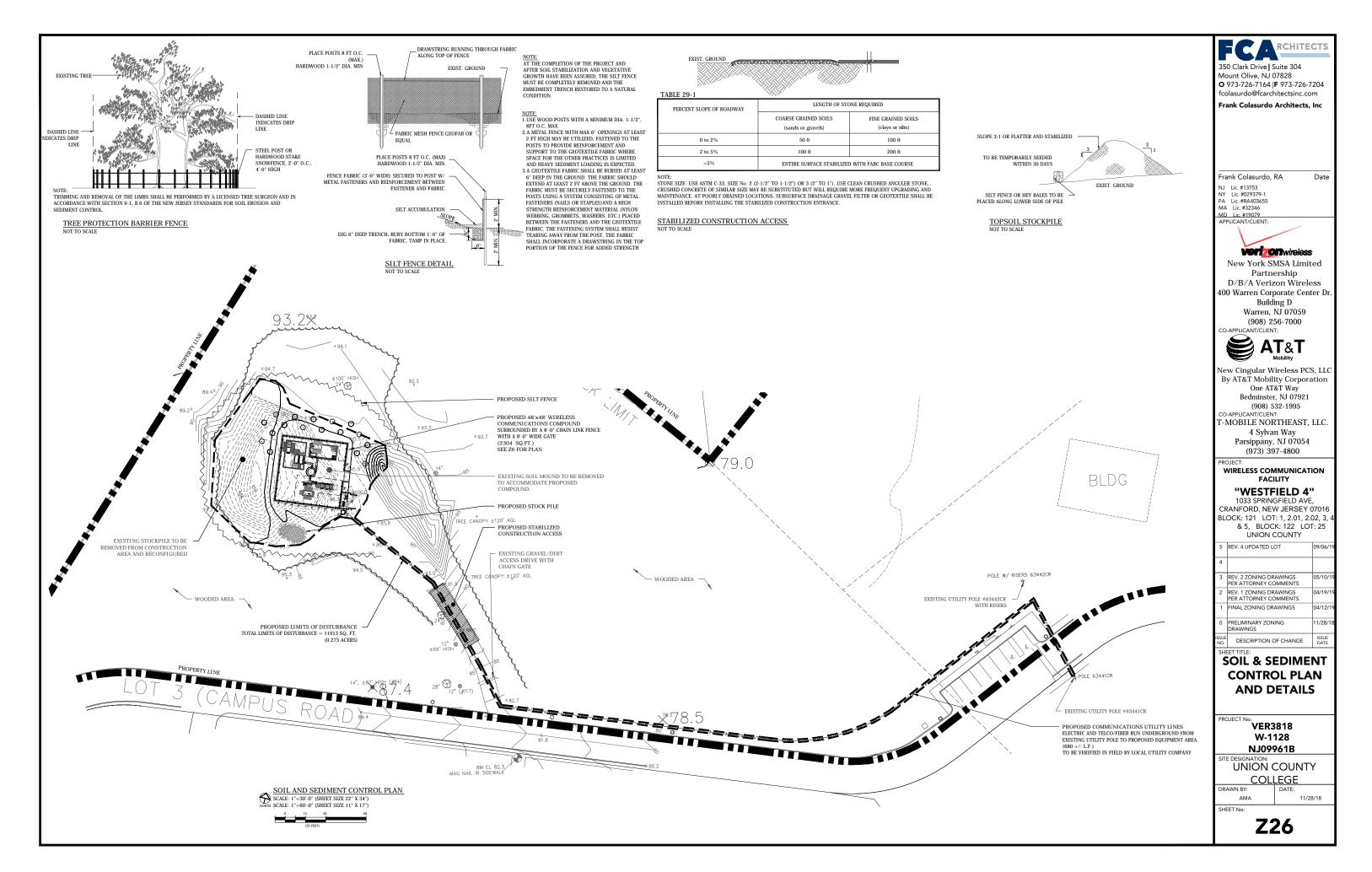
LANDSCAPING PLAN AND DETAILS

PROJECT No: VER3818 W-1128 NJ09961B

UNION COUNTY

COLLEGE AMA

SHEET No:



ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON THIS PLAN SHALL BE IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATIONS AND ESTABLISHED.

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR AREAS ARE STABILIZED.

THE APPLICABLE SOIL CONSERVATION DISTRICT SHALL BE CONTACTED 72 HOURS PRIOR TO THE START OF CONSTRUCTION FOR ANY LAND DISTURBING ACTIVITIES.

WORK DESCRIBED IN THIS NOTE SHALL BE IN ACCORDANCE WITH THE FOLLOWING PROVISIONS OF THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN N.J. (N.J. STATE SOIL CONSERVATION COMMITTEE - 6-14-7:

- 2 1-3 CUIDELINES FOR SOIL FROSION AND SEDIMENT CONTROL
- 2.1-3 GUIDELINES FOR SOIL EROSION AND SEDIMENT CON 3.31 STANDARDS FOR STABILIZATION WITH MULCH ONLY 3.61 STANDARDS FOR MAINTAINING VEGETATION 3.21-25 STANDARDS FOR PERMANENT VEGETATIVE COVER

ANY CHANGES TO CERTIFIED SOIL EROSION AND SEDIMENT CONTROLS (S.E.S.C.) PLAN WILL REQUIRE THE SUBMISSION OF REVISED PLANS WHICH MEET ALL CURRENT S.E.S.C. STANDARDS TO THE THE DISTRICT FOR REPORTIFICATION. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED S.E.S.C. PLANS HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR SITE PLANS WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OCCUPANCY BY THE MUNICIPALITY

A CERTIFIED COPY OF THESE PLANS SHALL BE KEPT AT THE CONSTRUCTION SITE.

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL WITH WATER AS NEEDED. CONTRACTOR TO FURNISH WATER AND EQUIPMENT NECESSARY FOR THIS WORK.

STABILIZATION:

TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A GRAVEL PAD OF 1-1/2" TO 2" STONE AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE, SEE DETAIL ON SHEET SC IN ORDER TO MINIMIZE DAMAGE FROM SOIL EROSION. EACH PORTION OF THE WORK SHALL BE STABILIZED IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. MULCH IS TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS SHALL BE MULCHED. IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS, A SUB-BASE COURSE WILL BE APPLIED IN ORDER TO STABLIZE STREETS, ROADS AND DRIVEWAYS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY CRADING AFTER FINAL GRADING, ALL EXPOSED AREAS SHALL BE PERMANENTLY STABLIZED WITHIN 10 DAYS AT THAT TIME, IF ANY SOIL WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VECETATION GROUND COVER, THEN IT SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS TO RENDER IT SUITABLE FOR PERMANENT VECTATIVE SHALLED TAKEN.

TOPSOIL:

REQUIRED ON ALL SURFACES TO BE STABILIZED BY SEEDING-6" MINIMUM THICKNESS, pH 5 TO 7, 3% ORGANIC FREE OF ANY SOLIDS LARGER THAN 1".

TEMPORARY PROTECTION BY MULCHING

MULCH: SALT HAY OR SMALL GRAIN STRAW-NOT CHOPPED, 90-115 LB/1000 SF. LIQUID MULCH BINDER: EMULSIFIER ASPHALT SS-1, CSS-1, CMS-2, MS-2, RS-1, CRS-1 OR CRS-2, OR CUTBACK ASPHALT-RAPID CURING RC-70, RC-250 OR RC-800, OR MEDIUM CURING (MC-250 OR MC-800) 0.04 GAL/SY. IN AREAS WHERE SLOPES ARE STEEPER THAN 3 TO 1, THE RATE OF

MULCHING

MULCHING IS REO. ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER & FARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT

A.) STRAW OR HAY
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 3 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 2 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 3 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-\ TO 3 TONS PER
UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE PROPERTY OF 1-\ TO 3 TONS PER
UNROTTED SMALL GRAIN SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE PROPERTY OF 1-\ TO 3 TONS PER
UNROTTED SMALL GRAIN SMALL GRAIN STRAW, HAY FREE OF 1-\ TO 3 TONS PER
UNROTTED SMALL GRAIN SMALL UNKOLIED SMALL LOKAIN STRAW, HAT FREE OF SEEDS, OR SALL HAT TO BE APPLIED AT THE RATE OF IT-YOZ TONS PER ACRE (70 TO 90 Lbs PER 1,000 SQ FT), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF LIQUID MULCH-BINDER (TRACKIPYING OR ADHESIVE AGANT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO PRESENCE

APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOII

SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ FT SECTIONS AND DISTRIBUTE 70 TO 90 Lbs WITHIN EACH SECTION.
ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND

1. LIQUID MULCH-BINDERS MAY BE USED TO ANCHOR SALT HAY, HAY OR STRAW MULCH.

A.) APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH. IN VALLEYS, AND AT CRESTS OF BANKS. THE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE. B.) USE ONE OF THE FOLLOWING

) EMILISTIFIC ASPHALT (SS.1 CSS.1 CMS.2 MS.2 RS.1 RS.2 CRS.1 AND CRS.2) APPLY 0.04 CAL (SO VD. OR 194 GAL/ACRE ON FLAT AREAS & ON SLOPES LESS THAN 8 FT OR MORE HIGH, USE 0.075 GAL/SQYD. OR 363 GAL/ACRE. THESE MATERIALS MAY BE DIFFICULT TO APPLY UNIFORMLY AND WILL DISCOLOR SURFACES.

2) ORGANIC AND VEGETARI F RASED RINDERS NATURALLY OCCURRING POWDER RASED HYDROPHILIC MATERIALS 2.) ORGANIC AND VEGETABLE BASED BINDERS-NATURALLY OCCURRING, POWDER BASED HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULAITES A CEL AND WHEN PPILED TO MULICH UNDER SATISFACTORY CURIC CONDITION WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC FEFFCT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY OF NEW PRODUCTS ARE AVAILABLE. SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE

3.) SYNTHETIC BINDERS-HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

 $\underline{B.)}$ WOOD-FIBER OR PAPER-FIBER MULCH_SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS. USED AT THE RATE OF 1.500 POUNDS/ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THE MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO TER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL

SEQUENCE OF CONSTRUCTION

WEEK 1:
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE AROUND SITE AS SHOWN ON PLAN
- CONSTRUCT SILT FENCE S CONSTRUCT WHEEL CLEANING PAD FOR VEHICLES AS SHOWN ON PLAN

WEEK 2 - ROUGH GRADE SITE AND PROTECT STORM INLETS WITH INLET PROTECTION UNTIL CONSTRUCTION IS COMPLETE.

WEEK 3 - 6: - CONSTRUCT FACILITY/UTILITIES. - MAINTAIN ALL SOIL EROSION CONTROL FACILITIES UNTIL CONSTRUCTION IS COMPLETE.

WEEK 7 - FINAL GRADE, SEEDING AND PLANTING

WEEK 8: REMOVE SOIL AND SEDIMENT CONTROL DEVICES EXCEPT SOIL STABILITY MEASURES

SOIL CONSERVATION DISTRICT NOTES

1. THE SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF ANY LAND

ALL WORK TO BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL OF

2. ALL WORK TO BE DONE IN ACCURANCE WITH THE STATE STANDARDS FOR SOFT LECTOR OF THE STANDARD FOR SOFT LECTOR OF THE SOFT LICETOR OF THE STANDARD FOR SOFT LICE

OF THE CERTIFIED PLAN FOR EROSION CONTROL HAVE BEEN COMPILED WITH FOR PERMANENT MEASURES. ALL SITE WORK AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY. 6. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE

ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TO 2 1/2 TONS PER ACRE, ACCORDING TO STATE STANDARD FOR STABILIZATION WITH MULCH IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (LE

7. IMMEDIATELY POLIOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT RATE OF 1 1/2 TO 2 TONS PER ACRE, ACCORDING TO STATE STANDARDS.

8. A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABLIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.

9. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABLIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).

10. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE CRESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAYED.

STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ENTRANCE CONSTITUENT OF ONE INCH TO TWO INCH (1"-2")STONE FOR A MINIMUM LENGTH OF TEN FEET (10') EQUAL TO THE LOT ENTRANCE WIDTH. ALL OTHER ACCESS POINTS

11. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF -WAY WILL BE REMOVED IMMEDIATELY.

12 PERMANENT VEGETATION TO BE SEEDED OR SEEDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL

13. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STARILIZATION IS GOING TO BE ACCOMPLISHED 13. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGITATIVE STABILIZATION IS COING TO BE ACCOMPLISHED, ANY SOIL HAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADOLGATE VEGETATIVE GROUND COVER. SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NONVEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. 14. IN ACCORDANCE WITH THE STADARD FOR MANAGEMENT OF HICH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PERPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.

15. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BEECOMING OPPRATIONAL.

16. UNFILTERED DEWATERING IS NOT PERMITTED. NECESSARY PRECAUTIONS MUST BE TAKEN DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH THE STANDARD FOR DEWATERING.

SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED AS REQUIRED STANDARD FOR

18. STOCKPILE AND STAGING LOCATIONS ESTABLISHED IN THE FIELD SHALL BE PLACED WITHIN THE LIMIT OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. STAGING AND STOCKPILES NOT LOCATED WITHIN THE LIMIT OF DISTURBANCE WILL REQUIRE CERTIFICATION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN. CERTIFICATION OF A NEW SOIL EROSION AND SEDIMENT CONTROL PLAN MAY BE REQUIRED FOR THESE ACTIVITIES IF AN AREA GREATER THAN 5 000 SQUARE FEET IS DISTURBED

19. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT

ON THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFF SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

STABILIZATION WITH MULCH ONLY

DEFINITION: STABILIZING EXPOSED SOILS WITH NON-VEGETATIVE MATERIALS. PURPOSE: TO PROTECT EXPOSED SOIL SURFACES FROM EROSION DAMAGE AND TO REDUCE

OFFSITE ENVIRONMENTAL DAMAGE.

WATER QUALITY ENHANCEMENT: PROVIDES TEMPORARYMECHANICAL PROTECTION AGAINST WIND OR RAINFALL INDUCED SOIL EROSION UNTIL PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED.

- WHERE APPLISCABLE: THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO EROSION, WHERE THE SEASON AND OTHER CONDITIONS MAY NOT BE SUITABLE FOR GROWING AN EROSION-RESISTANT COVER OR WHERE STABILIZATION IS NEEDED FOR A SHORT PERIOD UNTIL MORE SUITABLE PROTECTION CAN BE APPLIED.

METHODS AND MATERIALS:

A GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION

RADE AS NEEDED AND FRASHBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SCENDED FREE MANTAING, MUICH APPLICATION, AND MUICH ANCHORING, ALL GRADNG SHOULD BE DONE IN ACCORDANCE WITH DIARDS FOR LAND GRADING. SYSTALL REEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION

2. PROLIECTIVE MATERIALS:
A. UNROTTED SMALL-CRAIN STRAW, OR SALT HAY AT 2.0 TO 2.5 TONS/ACRE IS SPREAD UNIFORMLY AT 90 TO 115 Lbs/1,00 SQ FT AND ANCHORED WITH MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.

B. ASPHALT EMULSION IS RECOMMENDED AT THE RATE OF 600 TO 1,200 GALLONS/ACRE. THIS IS SUITABLE FOR A LIMITED

PERIOD OF TIME WHERE TRAVEL BY PEOPLE, ANIMALS, OR MACHINES IS NOT A PROBLEM.
C. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USSED UNDER SUITABLE CONDITIONS AS RECOMMENDED BY THE

MANUFACTURER D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 Lbs/ACRE (OR ACCORDING TO THE MANUFACTURER'S

REQUIREMENTS) MAY BE APPLIED BY HYDROSEEDER.
E. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE USED.

F. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2" MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG IT. WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUGIT.

C. CRAUFT CRUSHED STONE OR STAGAT THE RATE OF 9 CHIRIC VARDS / LOGSOFT APPLIED UNIFORMLY TO A MIN. DEPTH.

3" MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED

STABILIZATION WITH MULCH ONLY CONT.

3. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON TISIZE OF THE AREA AND STEEPNESS OF SLOPES.

A. PEG AND TWINE: DRIVE 8 TO 10' WOODEN PEGS TO WITHIN 2 TO 3" OF THE SOIL SURFACE EVERY 4 FEET IN ALL.

DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE B' STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH 2 OR MORE ROUND TURNS.

B. MULCH NETTING: STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. NETTING IS USUALLY AVAILABLE IN ROLLS 4 FEET WIDE AND UP TO 300 FEET LONG.
C. CRIMPER MULCH ANCHORING COULTER TOOL: A TRACTOR-DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND

ANCHOR MULCH INTO THE SOIL SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL. BUT ITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. SOIL PENETRATION SHOULD BE ABOUT 3 TO 4". ON SLOPING LAND. THE OPERATION SHOULD BE ON THE CONTOUR.

APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE 2 LISE ONE OF THE FOLLOWIN

2. USE ONE OF THE FOLLOWING:
A. EMULSIFIED ASPHALT: S.S.-I, CMS-2, MS-2, RS-1, RS-2, CRS-1, AND CRS-2). APPLY 0.04 GAL/SQ, YD. OR 194
GAL/ACRE ON FLAT AREAS AND ON SLOPES LESS THAN 8 FEET OR MORE HIGH, USE 0.075 GAL/SQ, YD. OR 363 GAL/ACRE.
THESE MATERIALS MAY BE DIFFICULT TO APPLY UNIFORMLY AND WILL DISCOLOR SURFECES.
B. ORGANIC AND VECETABLE BASED BINDERS-NATURALLY OCCURRING, POWDER BASED HYDROPHILIC MATERIALS WHEN
MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL
FORM MEMBRAND NETWORKS OF INSOLUBLE POLYMERS. THE VECETABLE GLE SHALL BE PHYSIOLOCICALLY HARMLESS
AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER
CONDITIONS AS PECCAMAFEDED BY THE MANIFACTURER

CONDITIONS AS RECOMMENDED BY THE MANUFACTURER. C. SYNTHETIC BINDERS-HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWIN APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS

DUST CONTROL

. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL WITH WATER AS NEEDED. 2. THE CONTRACTOR IS TO FURNISH THE WATER AND EQUIPMENT NECESSARY FOR THIS WORK.

TEMPORARY SEEDING

PURPOSE: TO TEMPORARILY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND WATER EROSION UNTIL PERMANENT

WATER QUALITY ENHANCEMENT: PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACT OF WIND AND RAIN. SLOWS THE OVER MENT OF STORM WATER RUNOFF, INCREASES INFILTRATION AND RETA STREAMS OR OTHER STORM WATER CONVEYANCES

WHERE APPLICABLE: ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

1. 31E FACE AGAINON.
A.) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING,
MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND

CRADING, (PG 19-1)

B. INSTALL NEEDED BROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, CRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

C.) IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BEE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES,

A.) APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS COOPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. COOPERITY EAT INSURED. SOME 28 BRILLES SAD AVAILABLE TWANT HE LOCAL WAY LOCAL OF THE ATTENDANCY OF THE FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. TABLE BELOW IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION.

LIN	MESTONE APPLICATION RATE BY SOIL	TEXTURE
SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

B.) WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4" WITH A DISC. SPRING TOOTH ABROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED. C.) INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN

D.) SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING

A.) SELECT SEED FROM RECOMMENDATIONS IN TABLE 7-2: TEMPORARY VEGETATIVE STABILIZATION GRASSES. SEEDING RATES. DATES AND DEPTH

TABLE 7-2

SEED SELECTIONS	SEEDING (poun			MUM SEEDING Da n Plant Hardiness		OPTIMUM SEED
	Per Acre	Per 1000 Sq. Ft.	ZONE 5b, 6b	ZONE 6b	ZONE 7a, b	DEPTH (1) (inches)
COOL SEASON GRASSES						
1 Perennial ryegrass	100	1.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	0.5

(I)SEEDING RATE FOR WARM SEASON GRASS, SELECTION 5-7 SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LINE SEED (PLS) AS DETERMINED BY A CERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.

(E)MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.

(3)PLANT HARDINESS ZONE.

TWICE THE DEPTH FOR SANDY SOILS

B.) CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER, EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEE SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4" TO 1/2", BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4" DEEPER ON COARSE TEXTURED SOIL C.) HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK AR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBER MULCH MAY BE APPLIED WITH A PREPARED SELDIBLY, MULLIT STRICL YOU BE INCLUDED IN THE TANK WITH SELD. SHORT FIBER MULLIT MAY BE APPLIED WITH THE PROPERED SECOND SETTING BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SUBPACE AND NOT INCORPORATED INTO THE SOIL POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GENOMED AND GROWTH, HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.

1). AFTER SEEDING, FIRMING, THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPPILARITY, AND IMPROVE SEEDING BERKEGECE. THIS IS THE PREPERRED METHOD, WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSENSATION ON THE WILL BE MAXIMIZED.

PERMANENT SEEDING

PURPOSE: TO PERMANENTLY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND WATER EROSION UNTIL PERMANENT STABILIZATION IS ACCOMPLISHED.
WATER QUALITY ENHANCEMENT: PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACT OF WIND AND RAIN, SLOWS THE OVER LAND MOVEMENT OF STORM WATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE. PROTECTING STREAMS OR OTHER STORM WATER CONVEYANCES.

WHERE APPLICABLE: ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE

1. SITE PREPARATION: A.) GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR

LAND GRADING. (PG 19-1) B.) INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES,

CHANNEL STREAM COMPATION, FRAULTIES OUT AND THE STREAM OF AUGUST AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STREAM STREAM OF THE S

2. SEEDBED PREPARATION:
A) APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS COOPERATIVE EXTENSION. SOIL SAMPLE MALLESS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFER FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE IN ACCORDANCE WITH TABLE 4-1 AND THE RESULTS OF SOIL TESTING. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO

GRASSES AND LEGUMES. TABLE 4-1 BELOW IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION

IADLE 4-1				
LIMESTONE APPLICATION RATE BY SOIL TEXTURE				
SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.		
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135		
SANDY LOAM, LOAM, SILT LOAM	2	90		
LOAMY SAND, SAND	1	45		

B.) WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4" WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDED IS PREPARED.

C. J IMMEDIATELY PRIOR TO SEEDING, THE SUFFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL.

COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES

IRRIGATION SYSTEMS, ETC.).

D.) HIGH ACID PRODUCING SOIL.

SOILS HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12° OF SOIL HAVING A pH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING

) SELECT A MIXTURE FROM TABLE 4-3 OR USE MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENTION OR NATURAL ONSERVATION SERVICE WHICH IS APPROVED BY THE SOIL CONSERVATION DISTRICT. SEED GERM HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DAT. MORE THAN 12 MONTHS OLD UNLESS RETESTED.

1. SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL I. SEEDING KAIES SYELPHED ARE REQUIRED WHER'S A REPORT OF CONFILINGNESS DROUGHED FROM TO GO TO CONTROL STABLISHIEM FOR OF PERMANENT VEGETATION. OF PER STABLISHIEM FOR THE STABLISHIEM FROM TO REPORT OF FOR THE STABLISHIEM FROM TO REPORT OF COMPILANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING, ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SETABLISHING.

MOVED ONCE.

2. WARM SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY
85 DEC F AND ABOVE SEE TABLE 4-3, MIXTURES 1 TO 7. PLANTING RATES FOR WARM SEASON GRASSES SHALL BE THE AMOUNT OF
PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.

3. COOL SEASON MIXTURES ARE CRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 85 DEG. F.

MANY GRASSES BECOME ACTIVE AT 65 DEG. F. SEE TABLE 3, MIXTURES 8-20. ADJUSTMENT OF PLANTING RATES TO CONFORT THE AMOUNT OF PURE LIVE SEED IS NOT REQUIRED FOR COOL SEASON GRASSES. B.) CONVENTIONAL SEEDING IS PERFORMED BY APPLYING SEED UNIFORMLY BY HAND, CYCLONE (CETRIFUGAL) SEEDER, DROP

SEEDER, DRILL OR CULTIPACKER SEEDER, EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL WITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4" TO 1/2". BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4" DEEPER ON COARSE TEXTURED SOIL C.) HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A

PREFARED SEDIED, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED, SHORT FIBERED MULCH MAY BE APPLIED WITH HTPROSESEED FOLLOWING SEEDING. HTPROSESEING IS NOT A PREFERED SEEDING METHOD BECALISE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HTPROSESEING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROSKS, STUMPS, ETC.

D.) AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMBREGENCE. THIS IS PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED

TABLE 4-2				
PERM	MANENT STABILIZATION MIXT	TURES FOR VARIOUS USES		
ADDITION	PLANTING MIXTURES BY SOIL DRAINAGE CLASS			
APPLICATION	EXCESSIVELY DRAINED	WELL TO MODERATELY WELL DRAINED	SOMEWHAT POORLY TO POORLY DRAINED	
RESIDENTIAL/ COMMERCIAL LOTS	12, 14, 17	12, 14, 15, 16, 17	18	
POND AND CHANNEL BANKS, DIKES, BERMS AND DAMS	2, 7, 8, 12	7, 8, 9, 10, 11, 17	2, 10, 18, 19	
DRAINAGE DITCHES, SWALES DETENTION BASINS	2, 11, 13	2, 9, 11, 13, 14, 19	2, 10, 18, 19	
FILTER STRIPS	14	13, 14	13, 14	
GRASSES WATERWAY, SPILLWAYS	2, 3, 11, 12, 14	8, 9, 11, 12, 13, 14	2, 11, 13, 14	
RECREATION AREAS ATHLETIC FIELDS	7, 14, 17, 20	14, 15, 16, 17, 20	18	
SPECIAL PROBLES SITES STEEP SLOPES AND BANKS, ROADSITDES, BORROW AREAS	2, 3, 6, 8	2, 3, 7, 9, 10, 11, 12, 17, 20	2, 10	
SAND AND GRAVEL PITS, SANITARY LANDFILLS	1, 2, 3, 4, 5, 6, 21	1, 2, 3, 4, 5, 6, 10, 17, 20	1, 2, 3, 4, 5, 6, 21	
DREDGED MATERIALS, SPOILBANKS, BORROW AREAS	2, 3, 6, 20	2, 3, 6, 11	2, 10	
STEAMBANKS AND SHORELINES	2, 10, 22, 23a	2, 10, 21b, 22, 23a, 23b	2, 10, 21a, 23a,b,c,d	
UTILITY RIGHTS-OF-WAY	3, 9, 20	3, 9	10, 11, 19	

PERMANENT VEGETATIVE MIXTURES, PLANTING RATES AND PLANTING DATES O= Optimal Planting Period A= Acceptable Planting Period REMARKS RATE PLANT HARDINESS ZONES ZONE 5b,6a ZONE 6b ZONE 7a,7b 715- 6/1- 8/1- 3/1- 5/1- 8/15- 2/1- 5/1- 8/15/31 7/31 10/31 4/30 8/14 11/15 4/30 8/14 11/30 COOL SEASON SEED MIXTURES Turf-Type Tall fescue 150 3.5 O A O O A O O A O C-D Use in managed fifter strip for

RECREATION AREAS, PUBLIC OPEN SPACES).

A INTENSIVE MOYING (2-4 DAYS), FERTILIZATION, LIME, PEST CONTROL AND IRRIGATION (EXAMPLES-HIGH MAINTENANCE LAWNS, COMMERCIAL AND RECREATION AREAS, PUBLIC FACILITIES).

8. FREQUENT MOWING (4-7 DAYS), OCCASIONAL FERTILIZATION, LIME AND WEED CONTROL (EXAMPLES-HOME LAWNS.

COMMERCIAL SITES, SCHOOL SITES). C. PERIODIC MOWING (7-14 DAYS), OCCASIONAL FERTILIZATION AND LIME (EXAMPLES-HOME LAWNS AND PARKS). D. INFREQUENT OR NO MOWING, FERTILIZATION AND LIME THE FIRST YEAR OF ESTABLISHMENT (EXAMPLES-ROADSIDES

350 Clark Drive I 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

Lic. #029379-1 PA Lic. #RA403655

MA Lic. #32346 MD Lic. #19079

Veri Offwireless

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 By AT&T Mobility Corporation One AT&T Way Bedminster, NJ 07921 (908) 532-1995 CO-APPLICANT/CLIENT: -MOBILE NORTHEAST, LLC. 4 Sylvan Way

(973) 397-4800

WIRELESS COMMUNICATION FACILITY

Parsippany, NJ 07054

"WESTFIELD 4"

1033 SPRINGFIELD AVE. CRANFORD, NEW JERSEY 07016 BLOCK: 121 LOT: 1 2 01 2 02 3 & 5. BLOCK: 122 LOT: 25

UNION COUNTY			
5	REV. 4 UPDATED LOT	09/06	
4			
3	REV. 2 ZONING DRAWINGS PER ATTORNEY COMMENTS	05/10	
2	REV. 1 ZONING DRAWINGS PER ATTORNEY COMMENTS	04/19	
1	FINAL ZONING DRAWINGS	04/12	
0	PRELIMINARY ZONING DRAWINGS	11/28	
ISSUE	DESCRIPTION OF CHANGE	ISSU	

SOIL & SEDIMENT NOTES

SHEET TITLE:

PROJECT No VER3818 W-1128

NJ09961B SITE DESIGNATION UNION COUNTY

COLLEGE

SHEET No

ΔΜΔ