



WICKATUNK

FA#: 14209075 - SITE#: NWL00575
316 TENNENT ROAD
MORGANVILLE, NJ 07751
MARLBORO TOWNSHIP
NEW SITE BUILD
SITE PLAN APPROVAL



New Cingular Wireless PCS, LLC
 One AT&T Way
 Bedminster, NJ 07921

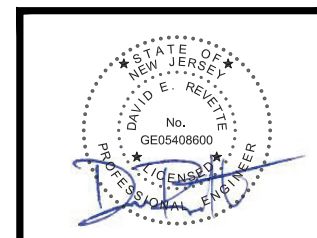


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FA#: 14209075
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ZONING DRAWINGS		
1	06/25/20	ISSUED FOR ZONING
0	04/22/20	ISSUED FOR ZONING
C	04/06/20	ISSUED FOR REVIEW
B	03/04/20	ISSUED FOR REVIEW
A	01/29/20	ISSUED FOR REVIEW



Dewberry Engineers Inc.
 600 PARSIPPANY ROAD
 SUITE 301
 PARSIPPANY, NJ 07054
 PHONE: 973.739.9400
 FAX: 973.739.9710
 COA 24GA28047600



DAVID E. REVETTE
 NJ LICENSE No. 24GE05408600

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

DRAWN BY: JC

REVIEWED BY: GHN

CHECKED BY: GHN

PROJECT NUMBER: 50110598

JOB NUMBER: 50110612

SITE ADDRESS:

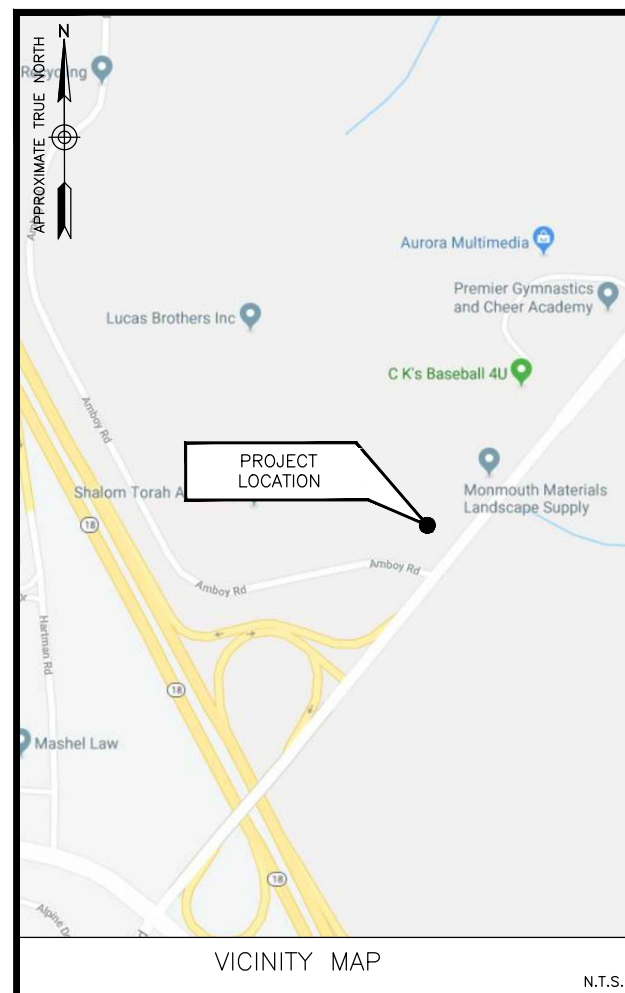
316 TENNENT ROAD
 MORGANVILLE, NJ 07751
 MARLBORO TOWNSHIP

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



DIRECTIONS FROM 1 AT&T WAY, BEDMINSTER, NJ:

GET ON I-287 S FROM AT&T WAY AND US-202 S/US-206 S. CONTINUE ON I-287 S TO SAYREVILLE. TAKE EXIT 123 FROM GARDEN STATE PKWY. GET ON NJ-18 S IN OLD BRIDGE TOWNSHIP. CONTINUE ON NJ-18 S TO MARLBORO TOWNSHIP. TAKE THE EXIT TOWARD MORGANVILLE FROM NJ-18 S. FOLLOW TENNENT RD. DESTINATION WILL BE THE LEFT.

SITE COORDINATES:
 LATITUDE: 40°-21'-12.12" N
 LONGITUDE: 74°-16'-56.44" W
 (PER FAA 1-A)

ELEVATION DATA
 GRADE ELEVATION = 124± NAVD 88
 (PER FAA 1-A)

ANTENNA ELEVATION (TO C.L. OF ANTENNAS)
 142± A.G.L.

ELEVATION (TO TOP OF MONOPINE)
 ELEVATION = 145± A.G.L.

HIGHEST APPURTENANCE
 TOP OF PROPOSED BRANCHES = 150± A.G.L.

SITE INFORMATION

1. D-3 USE VARIANCE

VARIANCES REQUESTED

1. LANDSCAPING BUFFER
 2. TOWER SET BACK
 3. TOWER RESIDENTIAL SETBACK

WAIVERS REQUESTED

THE PROJECT CONSISTS OF INSTALLING NEW TELECOMMUNICATIONS FACILITY WITH (1) 150'-0" MONOPINE, (1) METER PAK, (1) MESA CABINET, (1) WALK IN CABINET, (1) NATURAL GAS GENERATOR, (1) ANTENNA PLATFORM, (16) ANTENNAS, (20) RRH UNITS, (4) SURGE ARRESTORS, (1) COMPOUND FENCE WITH ACCESS GATE & ALL ASSOCIATED EQUIPMENT & CABLING FOR A COMPLETE INSTALLATION.

PROJECT DESCRIPTION

SITE NAME:
 WICKATUNK

SITE ADDRESS:
 316 TENNENT ROAD
 MORGANVILLE, NJ 07751

TAX MAP DESIGNATION:
 BLOCK: 172/ LOT: 41

ZONING DESIGNATION:
 IOR: INDUSTRIAL-OFFICE-RESEARCH

APPLICANT:
 NEW CINGULAR WIRELESS PCS, LLS ("AT&T")
 1 AT&T WAY
 BEDMINSTER, NJ
 07921

PROPERTY OWNER:
 AMBTEN ROAD ASSOCIATES, LLC
 44 NIKKI COURT
 MORGANVILLE, NJ 07751

PROJECT INFORMATION

SITE ACQUISITION:
 WILLIAM STONE
 AIROSMITH DEVELOPMENT
 PHONE: (518) 527-0174

PROJECT MANAGER:
 JOSH MOSTOW
 AIROSMITH DEVELOPMENT
 PHONE: (732) 693-3840

ENGINEER:
 GREGORY NAWROTZKI
 DEWBERRY ENGINEERS INC.
 PHONE: (973) 576-9653

CONTACT INFORMATION

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
G-1	GENERAL NOTES
Z-1	EXISTING CONDITIONS PLAN & NOTES
Z-2	SITE PLAN & NOTES
Z-3	ZONING INFORMATION
Z-4	LIST OF PROPERTY OWNERS
Z-5	COMPOUND PLAN & ELEVATION
Z-6	CONSTRUCTION DETAILS I
Z-7	CONSTRUCTION DETAILS II
Z-8	CONSTRUCTION DETAILS III
Z-9	CONSTRUCTION DETAILS IV
Z-10	CONSTRUCTION DETAILS V
Z-11	ANTENNA MOUNT DETAILS & NOTES
SC-1	SOIL EROSION & SEDIMENT CONTROL PLAN
SC-2	SOIL EROSION, SEDIMENT CONTROL NOTES & DETAILS

SHEET INDEX

APPROVED BY MARLBORO TOWNSHIP ZONING BOARD OF ADJUSTMENT

ZONING BOARD CHAIRMAN _____ DATE _____

ZONING BOARD SECRETARY _____ DATE _____

TOWNSHIP ENGINEER _____ DATE _____

APPROVALS

GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH AT&T & SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (811) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE AT&T & CONSTRUCTION MANAGERS.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR WILL NOTIFY ENGINEER, AT&T PROJECT CONSTRUCTION MANAGER, AND LANDLORD IMMEDIATELY.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH AT&T WITH THREE AS-BUILT SETS OF DRAWINGS EACH UPON COMPLETION OF WORK.
- ANTENNAS AND CABLES ARE TYPICALLY PROVIDED BY AT&T. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH AT&T PROJECT MANAGERS TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED BY AT&T. ALL ITEMS NOT PROVIDED BY AT&T SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED BY AT&T.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR WILL COORDINATE WITH AT&T PROJECT MANAGERS TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY AT&T. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- UNLESS OTHERWISE NOTED AT&T SHALL PROVIDE ALL REQUIRED RF MATERIAL FOR CONTRACTOR TO INSTALL, INCLUDING ANTENNAS, TMA'S, RRH'S, BIAS-T'S, COMBINERS, PDU, DC BLOCKS, SURGE ARRESTORS, OVP'S, GPS ANTENNA, GPS SURGE ARRESTOR, COAXIAL CABLE.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE PROVIDED BY AT&T & FOR INSTALLATION BY CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY DEWBERRY 48 HOURS IN ADVANCE OF POURING CONCRETE, OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS & POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEER REVIEW.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
- CONTRACTOR SHALL FOLLOW THE APPROVED WORK PLAN FOR THE SITE AND HAVE WORKERS THAT ARE OSHA APPROVED FOR ANY WORK WHICH INVOLVES THE SOIL OR GROUNDWATER.
- ALL WORK TO BE COMPLETED BY CONTRACTOR UNLESS NOTED OTHERWISE.

CONCRETE AND REINFORCING STEEL NOTES:

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE AND SUBMITTED TO ENGINEER PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A MAXIMUM 4" SLUMP AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
- THE FOLLOWING MATERIALS SHALL BE USED:
PORTLAND CEMENT: ASTM C-150, TYPE 1 OR 2
REINFORCEMENT: ASTM A-185, PLAIN STEEL WELDED WIRE FABRIC
REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED
NORMAL WEIGHT AGGREGATE: ASTM C-33
WATER: DRINKABLE
ADMIXTURES: NON-CHLORIDE CONTAINING
- MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):
A. CONCRETE CAST AGAINST EARTH: 3"
B. ALL OTHER CONCRETE: 2"
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW REINFORCEMENT, CONCRETE OR SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 3 DAYS AFTER PLACEMENT.
- FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
- CONCRETE SHALL BE RUBBED TO A ROUGH GROUT FINISH. PADS SHALL BE SEALED BY STEEL TROWEL.
- UNLESS OTHERWISE NOTED:
A. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS FOR BAR EMBEDMENT LENGTHS AND BAR SPLICED LENGTHS SHOWN IN THE DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP STEEL, BAR SPACING, COVER AND THE LIKE.
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
- LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS
- SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 8".
- BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE 16 GAUGE CONFORMING TO ASTM A82
- SLAB ON GROUND
A. COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.
B. PROVIDE VAPOR BARRIER BENEATH SLAB ON GROUND.

STRUCTURAL NOTES:

- AS REQUIRED UNDER THE STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNA, TIA/EIA-222-G, AT&T SHALL PROVIDE A STRUCTURAL ANALYSIS OF THE TOWER PREPARED BY A LICENSED NEW JERSEY STRUCTURAL ENGINEER CERTIFYING THAT THE EXISTING TOWER AND ANY REQUIRED IMPROVEMENTS AND REINFORCEMENTS HAVE SUFFICIENT CAPACITY TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, SUPPORTS AND APPURTENANCES AND COMPLIES WITH THE CURRENT NEW YORK STATE BUILDING CODE AND EIA/TIA CRITERIA. THE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT ANY IMPROVEMENTS AND REINFORCEMENTS REQUIRED BY THE STRUCTURAL ANALYSIS CERTIFICATION ARE PROPERLY INSTALLED PRIOR TO THE ADDITION OF ANTENNAS, SUPPORTS AND APPURTENANCES PROPOSED ON THESE DRAWINGS OR OTHERWISE NOTED IN THE STRUCTURAL ANALYSIS.
- FOR STRUCTURAL MODIFICATIONS REQUIRING FIELD WELDING; THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND IMPLEMENTING ALL INDUSTRY STANDARDS FOR PROTECTION OF ALL EXISTING PROPERTY AND PERSONNEL FOR DAMAGE OR HARM. ALL PROPERTY DAMAGED DURING CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE OWNER.



New Cingular Wireless PCS, LLC
One AT&T Way
Bedminster, NJ 07921



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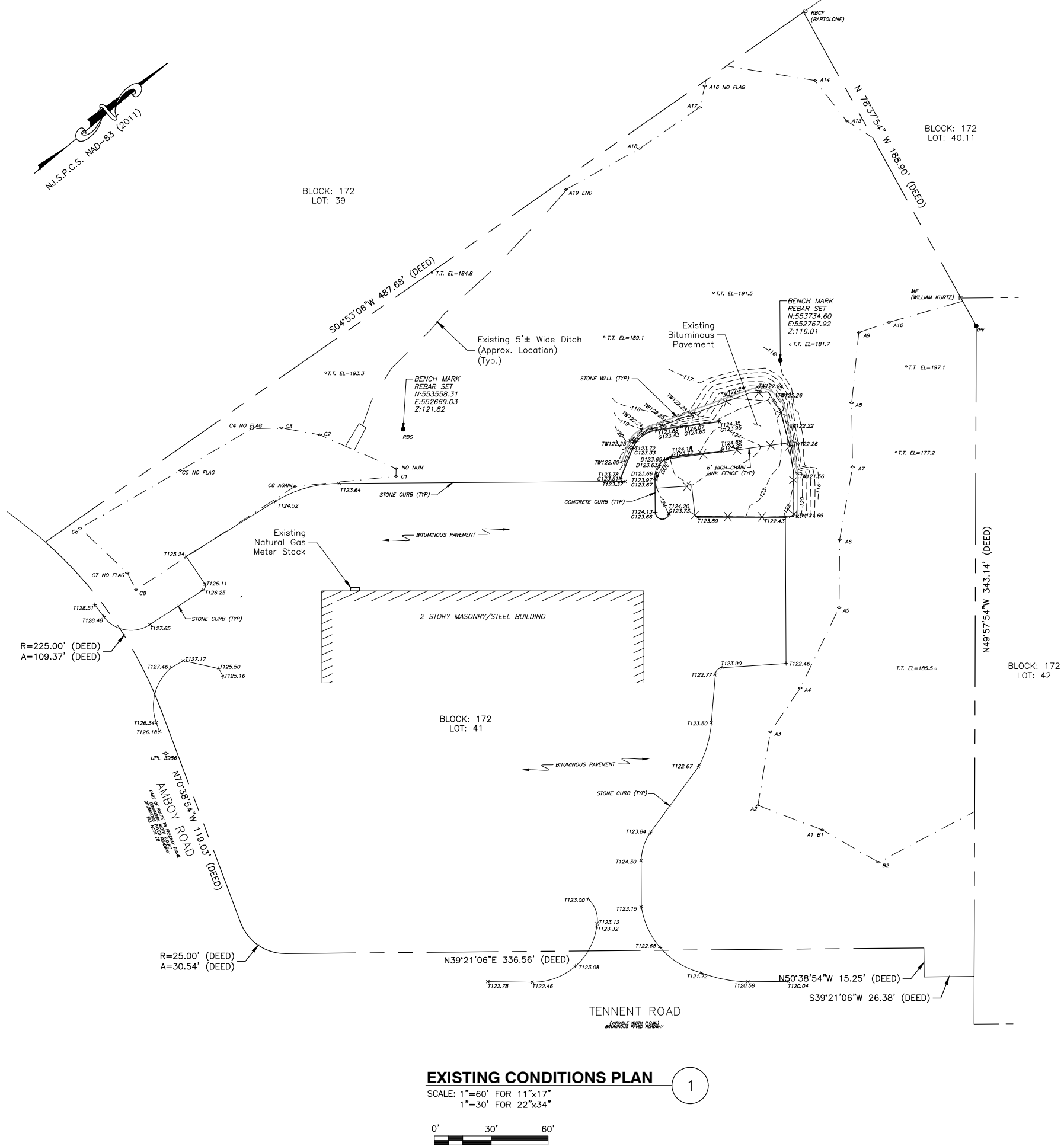
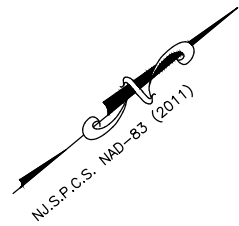
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MARLBORO TOWNSHIP

SHEET TITLE

GENERAL NOTES

SHEET NUMBER



EXISTING CONDITIONS PLAN 1

SCALE: 1"=60' FOR 11"x17"
1"=30' FOR 22"x34"

0' 30' 60'

NOTES:

- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY EASEMENT, RESTRICTION AND/OR COVENANTS THAT A CURRENT REPORT OF TITLE, OR COMPLETE SEARCH OF THE PUBLIC RECORD, MAY DISCLOSE.
- THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE FOLLOWING SOURCES OF INFORMATION:
 - A -DEEDS OF RECORD
 - B -PLAN OF "MAJOR SUBDIVISION" PREPARED BY CREST ENGINEERING ASSOCIATES INC. FILED IN MONMOUTH COUNTY CLERKS OFFICE ON SEPTEMBER 10, 2001.
 - C -AN ACTUAL FIELD SURVEY PERFORMED BY DEWBERRY ENGINEERS
 - D -THE "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, TOWNSHIP OF MARLBORO, NEW JERSEY, MONMOUTH COUNTY, PANEL 135 OF 457," COMMUNITY PANEL NUMBER 0135F, EFFECTIVE DATE: SEPTEMBER 25, 2009, PARCEL IS LOCATED IN SPECIAL FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN).
- BLOCK AND LOT NUMBERS REFER TO THE OFFICIAL TAX MAPS OF THE TOWNSHIP OF MARLBORO, MONMOUTH COUNTY, NEW JERSEY, SHEET #56.
- PLANIMETRIC & TOPOGRAPHIC FEATURES SHOWN ARE TAKEN FROM AN ACTUAL FIELD SURVEY PERFORMED BY DEWBERRY ENGINEERS INC. ON NOVEMBER 11, 2019.
- THIS PLAN IS NOT INTENDED TO GUARANTEE OWNERSHIP.
- SURVEY BASED ON N.J.S.P.C.S. NAD '83 (2011).
- IT IS BEYOND THE SCOPE OF THIS PLAN TO DETERMINE THE EXISTENCE OR NON-EXISTENCE OF ANY REGULATED ENVIRONMENTAL CONDITION ON OR NEAR THE SUBJECT PARCEL(S). UNDERGROUND EXPLORATIONS WERE NOT CONDUCTED OR UTILIZED DURING THE PREPARATION OF THIS PLAN. CONCERNED PARTIES SHOULD PURSUE ANY ENVIRONMENTAL MATTERS SEPARATE AND APART FROM THIS SURVEY.
- IT SHOULD NOT BE ASSUMED THAT ANY COPY OF THIS DRAWING WITHOUT A RAISED IMPRESSION OF THE SURVEYOR'S SEAL IS A TRUE COPY OF THE ORIGINAL AS ISSUED BY THE SURVEYOR.
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS ILLUSTRATED ARE BASED UPON UTILITY MARKOUT AND ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD. THE STATE OF NEW JERSEY REQUIRES NOTIFICATION PRIOR TO ANY EXCAVATION BY UTILIZING THE NEW JERSEY ONE-CALL SYSTEM (1-800-272-1000).
- THE WETLANDS SHOWN HEREON WERE DELINEATED BY DEWBERRY ENGINEERING INC ON 11/04/2019, REPORT DATED: 11/04/2019, AND FIELD LOCATED BY DEWBERRY ENGINEERS INC. ON 11/11/2019. NO SOIL BORING FLAGS WERE FOUND AT THE TIME OF FIELD SURVEY.
- THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE EXISTING TOPOGRAPHIC AND PLANIMETRIC FEATURES. IT IS BEYOND THE SCOPE OF THIS PLAN TO MAKE DETERMINATIONS ABOUT THE ACTUAL LOCATION OF RIGHT OF WAY AND PROPERTY LINES.

LEGEND

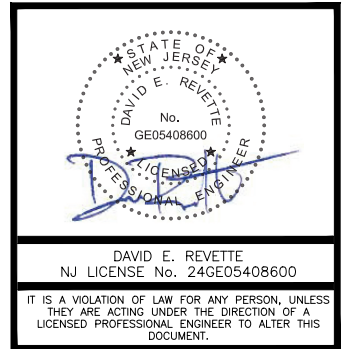
- THESE STANDARD ABBREVIATIONS, ACRONYMS, HATCHES, LINETYPES AND SYMBOLS WILL BE FOUND IN THE DRAWING:
- PERVIOUS ELEVATION
 - IMPERVIOUS ELEVATION
 - G12.34 x GUTTER ELEVATION
 - T12.34 x TOP OF CURB ELEVATION
 - D12.34 x TOP OF DEPRESSED CURB ELEVATION
 - T.T. EL=12.3 o TOP OF TREE ELEVATION
 - TW12.34 x TOP OF WALL ELEVATION
 - IPF ● IRON PIPE FOUND
 - MF □ MONUMENT FOUND
 - UPL -○ UTILITY POLE WITH LIGHT
 - UPT -○ UTILITY POLE WITH TRANSFORMER
 - /// BUILDING
 - PROPERTY LINE -- PIQ
 - ===== BUILDING
 - CONTOUR
 - CONTOUR -- INDEX
 - CURB
 - DITCH
 - FENCE -- GATE
 - FENCE -- STEEL (CHAIN LINK, WIRE, ETC.)
 - EDGE OF PAVEMENT
 - WALL
 - WETLANDS



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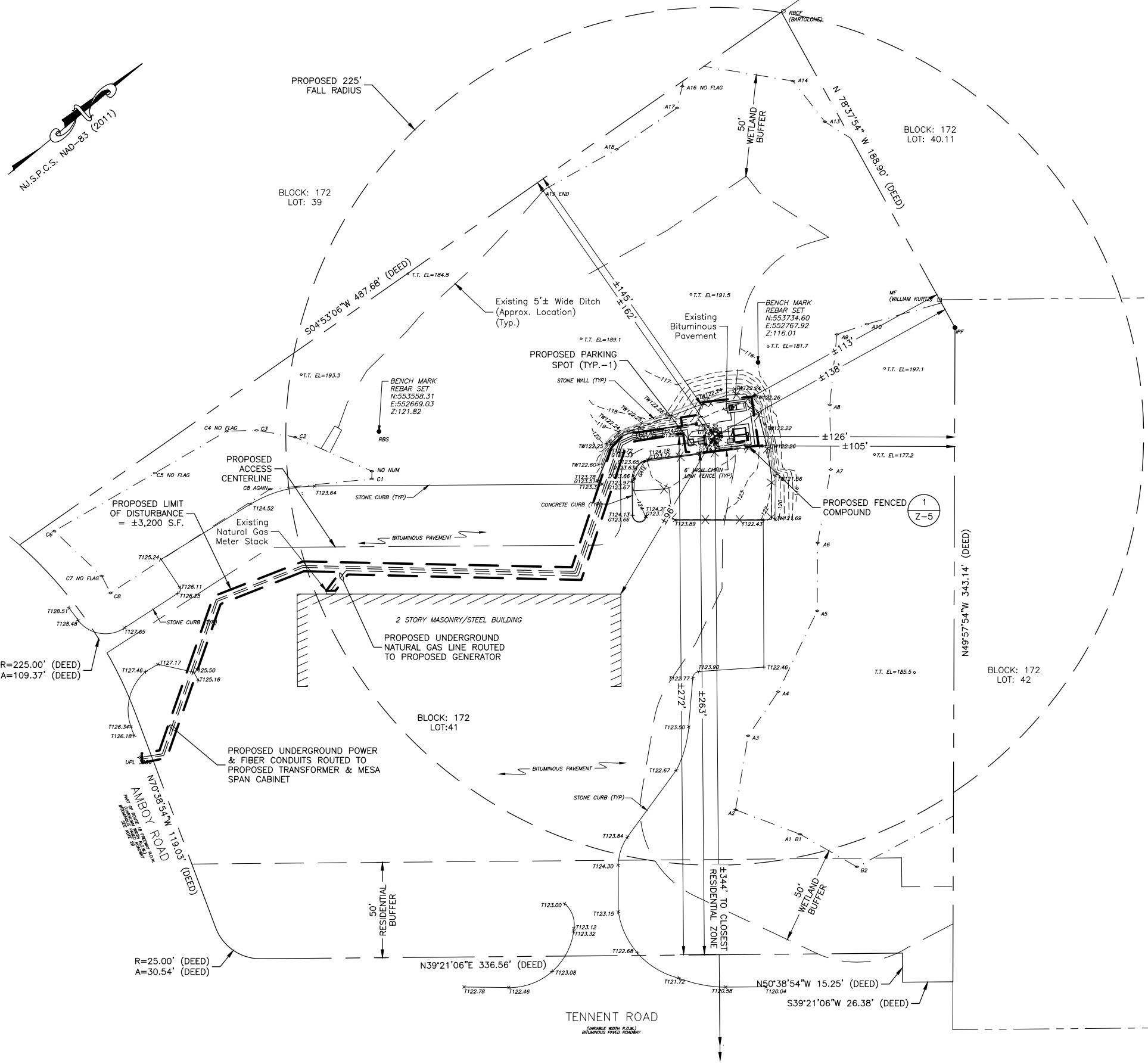
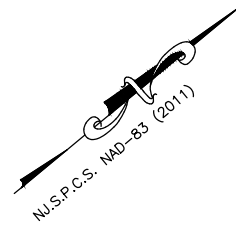
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SITE PLAN
 SCALE: 1"=60' FOR 11"x17"
 1"=30' FOR 22"x34"
 0' 30' 60'

NOTES:

- SUBJECT PROPERTIES ARE KNOWN AS BLOCK 172, LOT 41 AS SHOWN ON THE OFFICIAL TAX ASSESSMENT MAP OF THE TOWNSHIP OF MARLBORO, SHEET 48.
- ZONING CLASSIFICATION: IOR: INDUSTRIAL-OFFICE-RESEARCH
- APPLICANT: AT&T MOBILITY
NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
1 AT&T WAY
BEDMINSTER, NJ 07921
- PROPERTY OWNER: AMBTEN ROAD ASSOCIATES, LLC.
44 NIKKI COURT
MORGANVILLE, NJ 07751
- SUBJECT TO THE FINDINGS OF A TITLE SEARCH AND SURVEY.
- THIS PLAN IS NOT INTENDED TO DELINEATE OR DEFINE UNDERGROUND UTILITIES. THE USER IS CAUTIONED TO CONTACT NEW JERSEY ONE CALL FOR UTILITY MARKOUTS AT 1-800-272-1000.
- THE PROPOSED USE IS FOR TELECOMMUNICATIONS AND IS NOT INTENDED FOR PERMANENT EMPLOYEE OCCUPANCY. THEREFORE, POTABLE WATER, SANITARY SEWERS, AND ADDITIONAL ON SITE PARKING ARE NOT REQUIRED.
- THE FACILITY SHALL BE VISITED ON THE AVERAGE OF ONCE A MONTH FOR MAINTENANCE AND SHALL BE CONTINUOUSLY MONITORED FROM A REMOTE FACILITY FOR BOTH FIRE AND INTRUSION.
- THE FACILITIES ARE REMOTELY OPERATED AND CONTROLLED, AND AS SUCH, ARE NORMALLY UNMANNED. A COMPUTERIZED EQUIPMENT AND FACILITY ALARM SYSTEM CONTINUOUSLY MONITORS AN EXTENSIVE NUMBER OF OPERATING AND BUILDING FUNCTIONS. UNPLANNED EVENTS WILL TRIGGER ALARM REPORTS TO VERIZON WIRELESS HEADQUARTERS LOCATION IN BEDMINSTER, NJ, RANGING FROM ROUTINE REPORTS TO IMMEDIATE ACTIVATION OF LOCAL PERSONNEL OR EMERGENCY SERVICES, 24 HOURS A DAY.
- A MANUALLY ACTUATED LED WALL PACK LIGHT WITH TIMER IS ATTACHED TO THE EQUIPMENT SHELTER TO PROVIDE AREA LIGHTING DURING MAINTENANCE ONLY.
- ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - CURRENT PREVAILING MUNICIPAL AND/OR STATE SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
 - CURRENT PREVAILING UTILITY COMPANY AUTHORITY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
- CONTRACTOR SHALL CONTACT "GARDEN STATE UNDERGROUND PLANT LOCATION SERVICE" AT 1-800-272-1000 AND LOCATE ALL EXISTING UTILITIES WITHIN THE AREA OF WORK PRIOR TO START OF EXCAVATION.
- CONTRACTOR SHALL COORDINATE & COMPLY WITH EXISTING UTILITY COMPANIES' REQUIREMENTS.
- THERE ARE NO PROPOSED ALTERATIONS, IMPROVEMENTS OR RELOCATIONS FOR ANY STREAMS OR EXISTING DRAINAGE STRUCTURES WITHIN THE PROPERTY.
- BASED ON THE NATIONAL WETLANDS INVENTORY MAPS FOR NEW JERSEY, MARLBORO TOWNSHIP NJ QUADRANGLE MAP, WETLANDS ARE NOT PRESENT ON THE SITE.
- THESE DRAWINGS ARE PROVIDED FOR ZONING APPROVAL. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
- BEFORE CONSTRUCTION A STRUCTURAL ANALYSIS OF TOWER WILL BE PERFORMED. A COPY OF THE STRUCTURAL ANALYSIS WILL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW WHEN A BUILDING PERMIT APPLICATION IS SUBMITTED.
- NO LANDSCAPING IS PROPOSED AT THIS FACILITY.
- A SOIL EROSION AND SEDIMENT CONTROL CERTIFICATION WILL NOT BE REQUIRED SINCE THERE IS LESS THAN 5,000 S.F. DISTURBANCE.
- NO TREES ARE TO BE REMOVED UNDER THIS SUBMITTAL.



WICKATUNK
FA#: 14209075
SITE#: NWL00575

ZONING DRAWINGS	
1	06/25/20 ISSUED FOR ZONING
0	04/22/20 ISSUED FOR ZONING
C	04/06/20 ISSUED FOR REVIEW
B	03/04/20 ISSUED FOR REVIEW
A	01/29/20 ISSUED FOR REVIEW

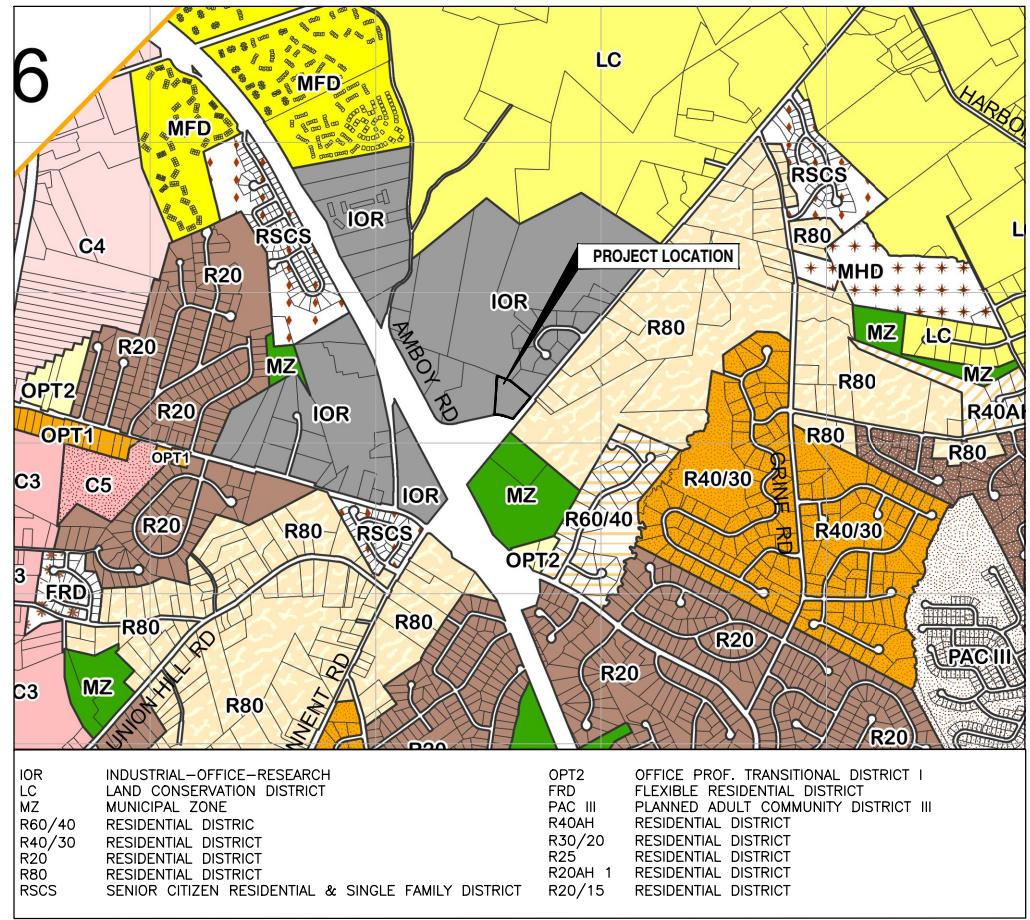
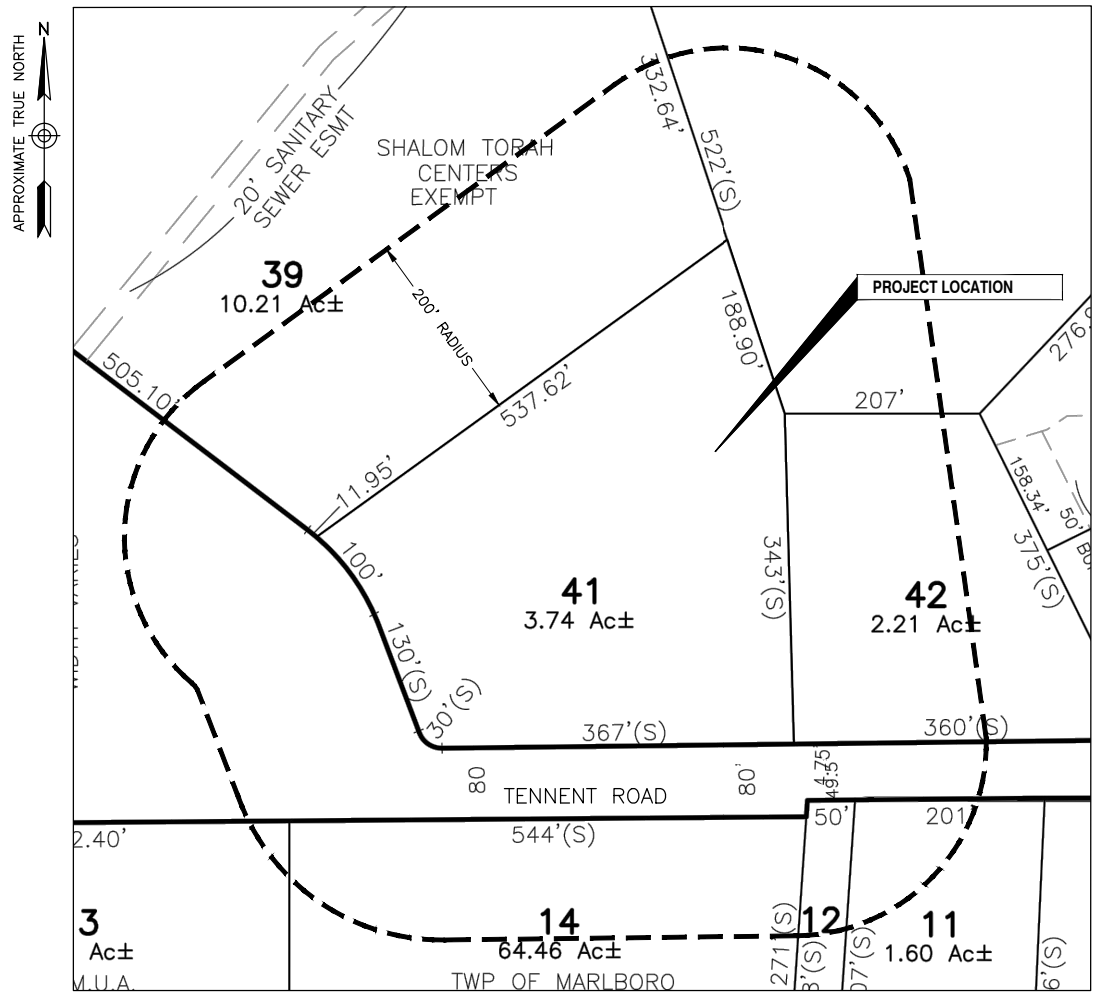
Dewberry
 Dewberry Engineers Inc.
 600 PARSIPPANY ROAD
 SUITE 301
 PARSIPPANY, NJ 07054
 PHONE: 973.739.9400
 FAX: 973.739.9710
 COA 24GA28047600



DRAWN BY:	JC
REVIEWED BY:	GHN
CHECKED BY:	GHN
PROJECT NUMBER:	50110598
JOB NUMBER:	50110612
SITE ADDRESS:	

316 TENNET ROAD
 MORGANVILLE, NJ 07751
 MARLBORO TOWNSHIP

SHEET TITLE
 SITE PLAN & NOTES
 SHEET NUMBER



NOTE:
1. PARTIAL TAX MAP BASED ON A "TAX MAP TOWNSHIP OF MARLBORO, MONMOUTH COUNTY, NEW JERSEY, DATE: JULY 2017 BY "ARNOLD W. BARNETT, PROFESSIONAL ENGINEER AND LAND SURVEYOR, NJ LICENSE No. 14987".

PARTIAL TAX MAP
SCALE: 1"=200' FOR 11"x17"
1"=100' FOR 22"x34"
0' 100' 200'

PARTIAL ZONING MAP
SCALE: N.T.S.

NOTE:
1. PARTIAL ZONING MAP BASED ON THE ZONING MAP, TOWNSHIP OF MARLBORO, ENGINEERING DEPARTMENT GEOGRAPHIC INFORMATION SYSTEM, LAST REVISED 03-22-2017.

WIRELESS ORDINANCE REQUIREMENTS				
DESCRIPTION	REQUIRED	EXISTING	PROPOSED	REMARKS
MINIMUM LOT AREA	5 ACRES	3.8 ACRES±	N/A	NON-CONFORMING
TOWER STYLE	NO GUYED /LATTICE	N/A	MONOPINE	CONFORMING
CARRIER NUMBER	3	N/A	3	CONFORMING
MAXIMUM TOWER HEIGHT	150 FT	N/A	150 FT	CONFORMING

STORMWATER MANAGEMENT
DUE TO THE RELATIVELY SMALL SIZE OF THE PROPOSED FACILITY, THERE WILL BE A MINIMAL IMPACT TO DRAINAGE CONDITIONS AT THE SITE.

VARIANCES REQUESTED
1. D-3 USE VARIANCE

WAIVERS REQUESTED
1. LANDSCAPING BUFFER
2. TOWER SET BACK
3. TOWER RESIDENTIAL SETBACK

ZONE DEVELOPMENT STANDARDS FOR IOR: INDUSTRIAL-OFFICE-RESEARCH				
DESCRIPTION	REQUIRED	EXISTING	PROPOSED	REMARKS
LOT:				
MIN. LOT AREA	5 ACRES	3.8 ACRES±	N/A	NON-CONFORMING
MIN. LOT WIDTH	300 FEET	399.4 FEET±	N/A	CONFORMING
MIN. LOT DEPTH	300 FEET	367.8 FEET±	N/A	CONFORMING
MIN. LOT FRONTAGE	300 FEET	454.3 FEET±	N/A	CONFORMING
TOWER SETBACKS (SEE NOTE 1):				
MIN. FRONT YARD	80 FEET	N/A	263 FEET±	CONFORMING
MIN. SIDE YARD	70 FEET	N/A	126 FEET±	CONFORMING
MIN. REAR YARD	80 FEET	N/A	162 FEET±	CONFORMING
AT&T EQUIPMENT SHELTER SETBACKS:				
MIN. FRONT YARD	80 FEET	N/A	263 FEET±	CONFORMING
MIN. SIDE YARD	50 FEET	N/A	105 FEET±	CONFORMING
MIN. REAR YARD	60 FEET	N/A	145 FEET±	CONFORMING
MAX. BUILDING COVERAGE	35%	N/A	4%±	CONFORMING
MAX. FAR	0.35	N/A	.04±	CONFORMING
MAXIMUM HEIGHT:				
TOWER	150 FEET	N/A	150'-0"	CONFORMING
EQUIPMENT SHELTER	10 FEET	N/A	9'-5"	CONFORMING
LOT COVERAGE:				
MAX. LOT COVERAGE	60%	10%	N/A	NON-CONFORMING

NOTES:
1. TOWER SETBACK DIMENSIONS ARE TO OUTSIDE EDGE OF PROPOSED ANTENNAS.
2. REQUIREMENTS PER SECTION § 220-89 & § 220-162 OF THE MARLBORO TOWNSHIP MUNICIPAL CODE.

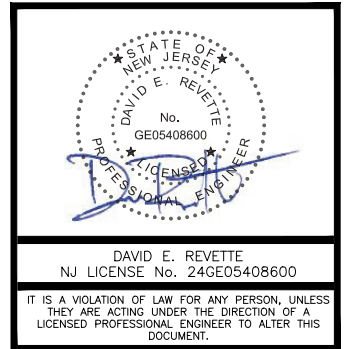
WIRELESS ORDINANCE DESIGN STANDARDS				
DESCRIPTION	REQUIRED	EXISTING	PROPOSED	REMARKS
MINIMUM TOWER RESIDENTIAL SETBACK	500 FT	N/A	344'	WAIVER REQUESTED
MINIMUM TOWER LOT LINE/BUILDING SETBACK	150% OF THE HEIGHT OF THE TOWER	N/A	126'	WAIVER REQUESTED
FENCE HEIGHT	8 FT. W/ ANTI-CLIMBING	N/A	8 FT. W/ ANTI-CLIMBING	CONFORMING
MINIMUM LANDSCAPE BUFFER	8 FT	N/A	0 FT	WAIVER REQUESTED
MAXIMUM EQUIPMENT AREA	200 S.F.	N/A	17.3 S.F.	CONFORMING
MAXIMUM EQUIPMENT HEIGHT	10 FT	N/A	9'-5" FT	CONFORMING
MAXIMUM EQUIPMENT BUILDING	1 PER CARRIER	N/A	1	CONFORMING
MINIMUM EQUIPMENT SETBACKS (PER ZONE)	-	N/A	SEE ADJACENT BULK TABLE	CONFORMING
FACILITY DESIGNED TO REDUCE VISUAL OBTRUSIVENESS	-	N/A	-	CONFORMING
LIGHTING	EQUIPMENT	N/A	EQUIPMENT	CONFORMING
ONLY SAFETY PERMITTED	-	N/A	-	CONFORMING



WICKATUNK
FA#: 14209075
SITE#: NWL00575

ZONING DRAWINGS		
REV	DATE	DESCRIPTION
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B	03/04/20	ISSUED FOR REVIEW
A	01/29/20	ISSUED FOR REVIEW

Dewberry
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COA 24GA28047600



DRAWN BY: JC
REVIEWED BY: GHN
CHECKED BY: GHN
PROJECT NUMBER: 50110598
JOB NUMBER: 50110612
SITE ADDRESS:

316 TENNENT ROAD
MORGANVILLE, NJ 07751
MARLBORO TOWNSHIP

SHEET TITLE
ZONING INFORMATION
SHEET NUMBER



New Cingular Wireless PCS, LLC
One AT&T Way
Bedminster, NJ 07921



WICKATUNK
FA#: 14209075
SITE#: NWL00575

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DAVID E. REVETTE
NJ LICENSE No. 24GE05408600

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CHECKED BY:	GHN
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JOB NUMBER:	50110612
SITE ADDRESS:	

316 TENNENT ROAD
MORGANVILLE, NJ 07751
MARLBORO TOWNSHIP

SHEET TITLE

LIST OF PROPERTY OWNERS

SHEET NUMBER

Z-4

200' RADIUS PROPERTY OWNER'S LIST							
MUNICIPAL CODE	BLOCK	LOT	PROPERTY LOCATION	OWNER NAME	OWNER ADDRESS	CITY STATE	ZIP CODE
-	172	40.06	COMMERCIAL COURT	TRIPLE SEVEN HOLDINGS LLC	202 COMMERCIAL COURT	MORGANVILLE, NJ	07751
-	172	40.11	80 AMBOY ROAD	LUCAS BROTHERS, INC	80 AMBOY ROAD	MORGANVILLE, NJ	07751
-	172	39	70 AMBOY ROAD	SHALOM TORAH CENTERS	152 JAMES STREET	LAKEWOOD, NJ	08701
-	172	42	312 TENNENT ROAD	LAND BARON, LLC	308 TENNENT ROAD	MORGANVILLE, NJ	07751
-	180	14	ROUTE 520	TWP OF MARLBORO	1979 TOWNSHIP DRIVE	MARLBORO, NJ	07746
-	180	12	321 TENNENT ROAD	TENNENT ROAD HOLDINGS, LLC	161 WOODLAND MANOR	TINTON FALL, NJ	07724
-	180	13	337 TENNENT ROAD	TWP OF MARLBORO-MUN UTILITIES AUTH	1979 TOWNSHIP DRIVE	MARLBORO, NJ	07746
-	180	11	319 TENNENT ROAD	INGHAM, ALEXANDER & LAWSON, NADINE	319 TENNENT ROAD	MORGANVILLE, NJ	07751

UTILITY COMPANY NAMES	
W.M.U.A.	103 PENSION ROAD ENGLISHTOWN, NJ 07726
MARLBORO TOWNSHIP WATER UTILITY	1979 TOWNSHIP DRIVE MARLBORO, NJ 07746
GORDONS CORNER WATER UTILITY	27 VANDERBURG ROAD MARLBORO, NJ 07746
N.J. NATURAL GAS COMPANY	1415 WYCOFF ROAD WALL, NJ 07719
CABLEVISION OF MONMOUTH	40 PINE STREET TINTON FALLS, NJ 07753
VERIZON NEW JERSEY INC	789 WAYSIDE ROAD NEPTUNE, NJ 07753
JERSEY CENTRAL POWER AND LIGHT COMPANY	331 NEWMAN SPRINGS ROAD STE 325 BLDG 3 RED BANK, NJ 07701
MONMOUTH COUNTY DEPARTMENT OF TRANSPORTATION	CENTER STREET & KOZLOWSKI ROAD FREEHOLD, NJ 07728

PROPERTY OWNERS LIST

SCALE: N.T.S.

1

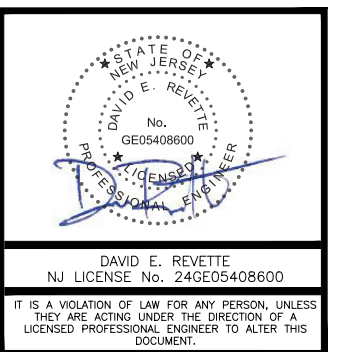
WICKATUNK
FA#: 14209075
SITE#: NWL00575

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Dewberry

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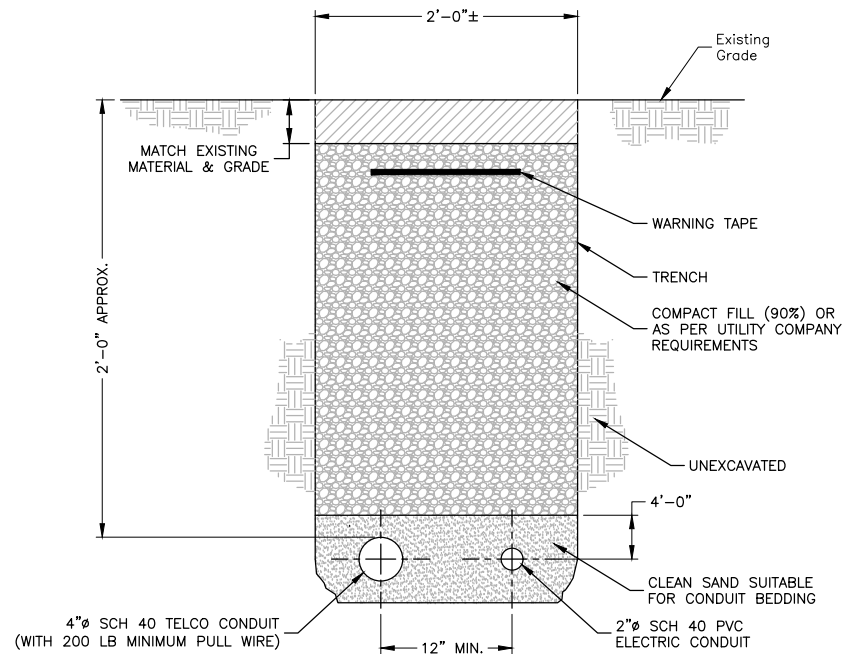
316 TENNET ROAD
MORGANVILLE, NJ 07751
MARLBORO TOWNSHIP

SHEET TITLE

CONSTRUCTION
DETAILS I

SHEET NUMBER

Z-6



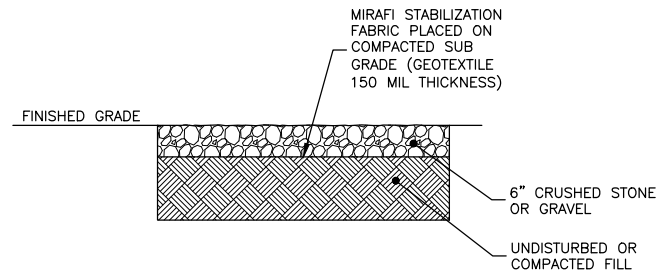
TRENCH NOTES:

- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
- IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
- IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE, CONTRACTOR SHALL HAND DIG U/G TRENCHING.

JOINT SERVICE TRENCH BURIED CONDUIT (ELECTRIC/TELEPHONE)

SCALE: N.T.S.

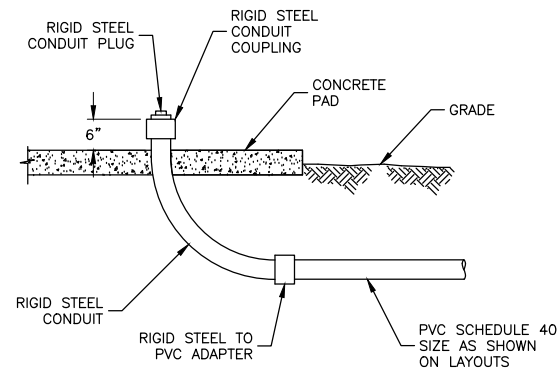
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GRAVEL YARD SECTION

SCALE: N.T.S.

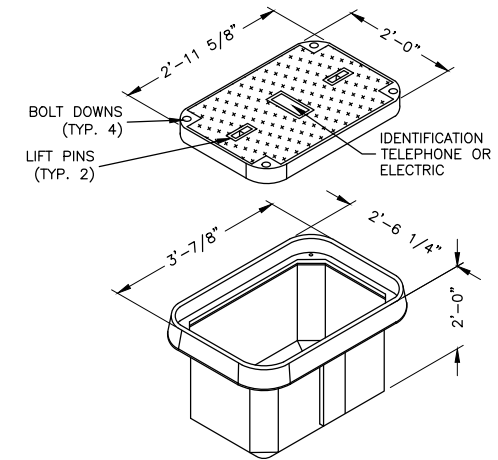
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UNDERGROUND CONDUIT STUB-UP DETAIL

SCALE: N.T.S.

3



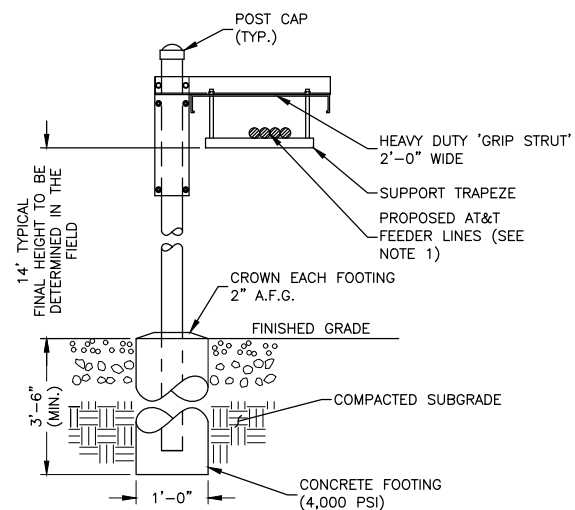
NOTE:

- ALL STUB-UP CONDUITS INSIDE PULL BOXES WILL BE 6" FROM TOP OF BOX AND HAVE PULL STRING AND CAPS.

HAND HOLE/PULL BOX DETAIL

SCALE: N.T.S.

4



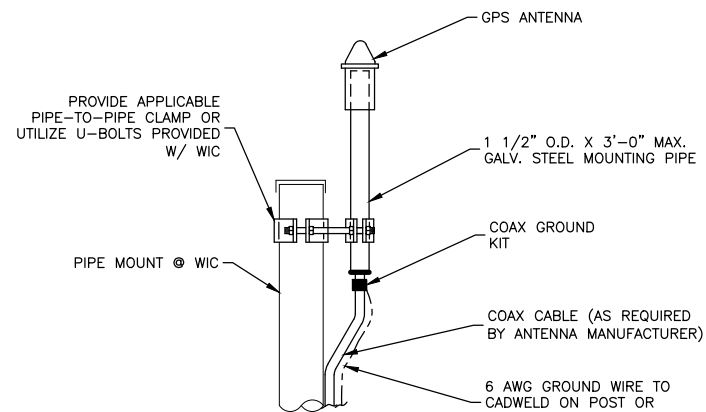
NOTES:

- CABLE BRIDGE SHALL BE SITE PRO 1 24" GRIP-SPAN ICE BRIDGE KIT WITH Z-BRACKET TRAPEZE P/N: IB24D-216Z FOR UP TO 14 LINES & P/N IB24D-216Z2 FOR 15-28 LINES OR APPROVED EQUAL.
- ALL COMPONENTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL DETERMINE REQUIRED QUANTITY OF ALL CABLE BRIDGE COMPONENTS.
- SNAP-IN HANGERS, SPLICE KITS, HINGE KITS, EXTENSION KITS, STIFFENERS, & OTHER MISCELLANEOUS HARDWARE SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
- CABLE BRIDGE SHALL BE ROUTED TO ACCOMMODATE THE MINIMUM BENDING RADIUS OF THE COAXIAL CABLE.
- CABLE BRIDGE COMPONENTS SHOWN ARE SCHEMATIC, CONSULT MANUFACTURER FOR EXACT & CURRENT SPECIFICATIONS.

CABLE BRIDGE DETAIL

SCALE: N.T.S.

5



FRONT ELEVATION

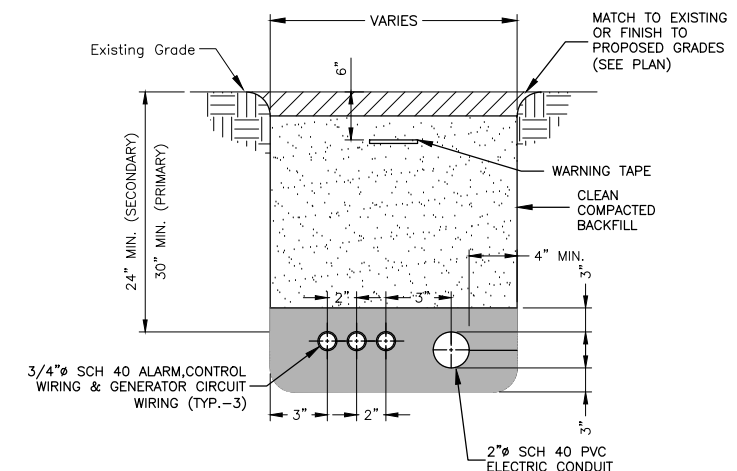
NOTES:

- LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
- ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

GPS ANTENNA

SCALE: N.T.S.

6



NOTES:

- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
- IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. SUBCONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
- IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE SUBCONTRACTOR SHALL HAND DIG U/G TRENCHING.

GENERATOR SERVICE TRENCH CONDUIT

SCALE: N.T.S.

7



New Cingular Wireless PCS, LLC
One AT&T Way
Bedminster, NJ 07921



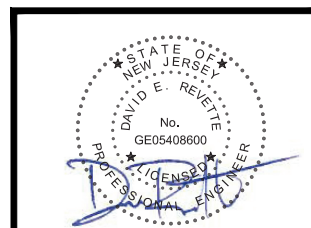
WICKATUNK
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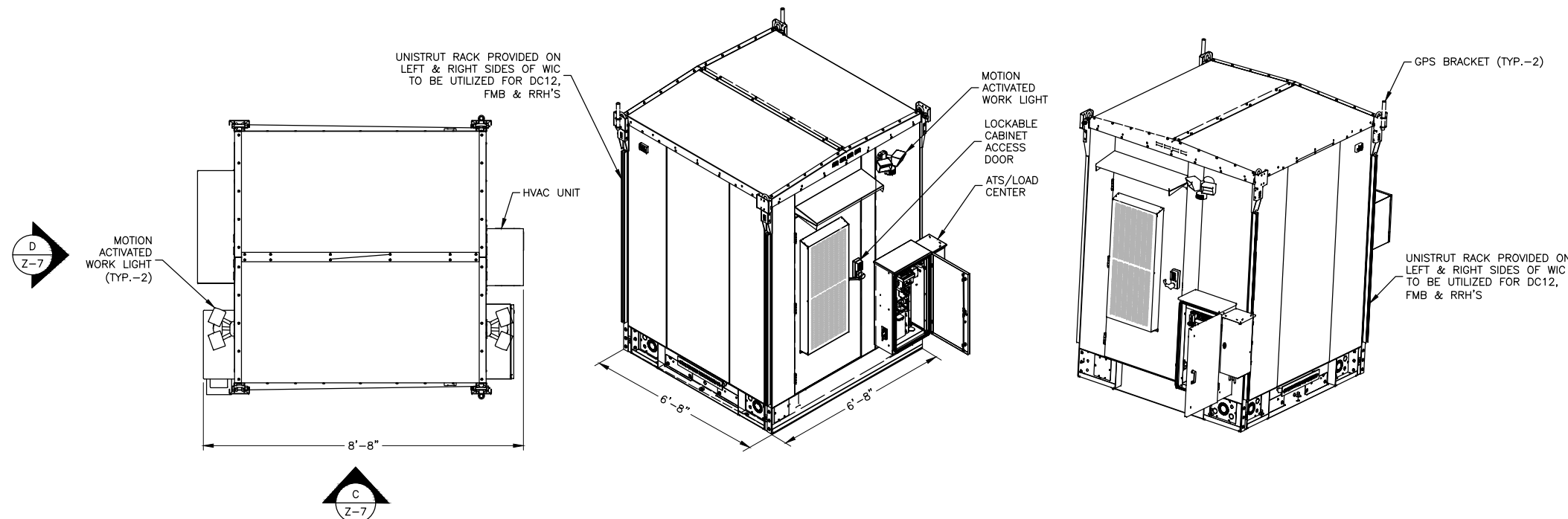
316 TENNENT ROAD
MORGANVILLE, NJ 07751
MARLBORO TOWNSHIP

SHEET TITLE

CONSTRUCTION
DETAILS II

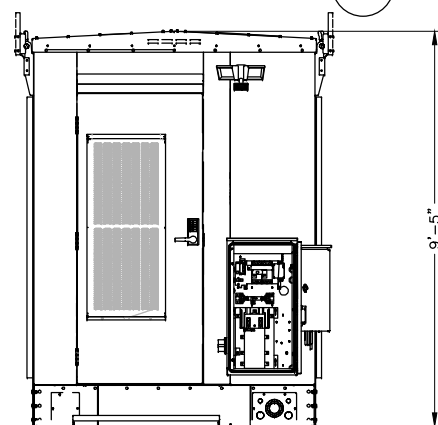
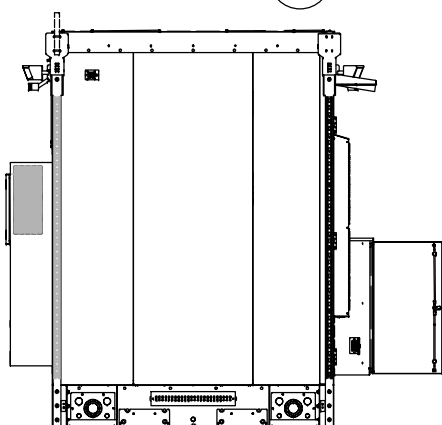
SHEET NUMBER

Z-7



8' x 8' WIC PLAN

ISOMETRIC SIDE VIEWS

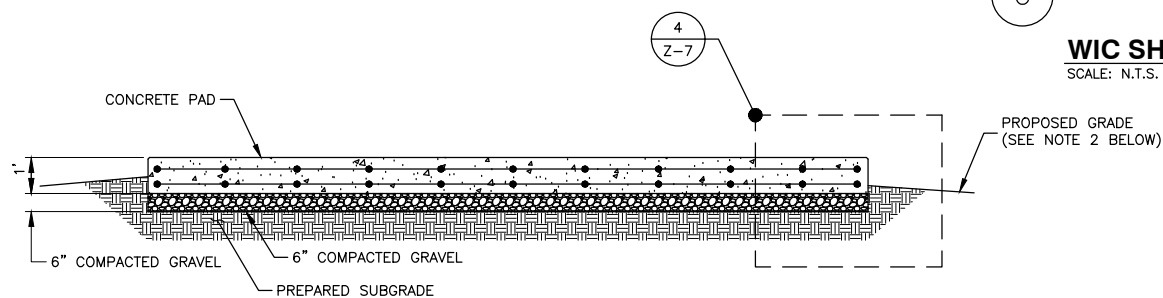


SHELTER REAR ELEVATION

SHELTER FRONT ELEVATION

WIC SHELTER DETAIL

SCALE: N.T.S.

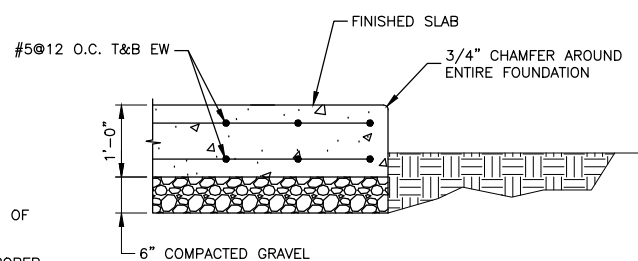


SECTION

USE	PAD LENGTH	PAD WIDTH
GENERATOR	10'-0"	5'-0"
CABINET	11'-0"	11'-0"

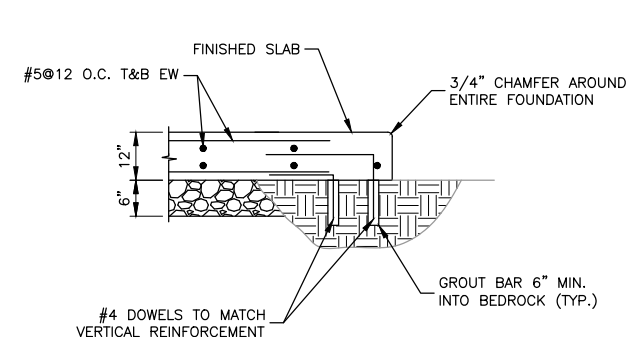
CONCRETE PAD FOUNDATION

SCALE: N.T.S.



CONCRETE PAD DETAIL

SCALE: N.T.S.



FOUNDATION SLAB DETAIL @ BEDROCK

SCALE: N.T.S.

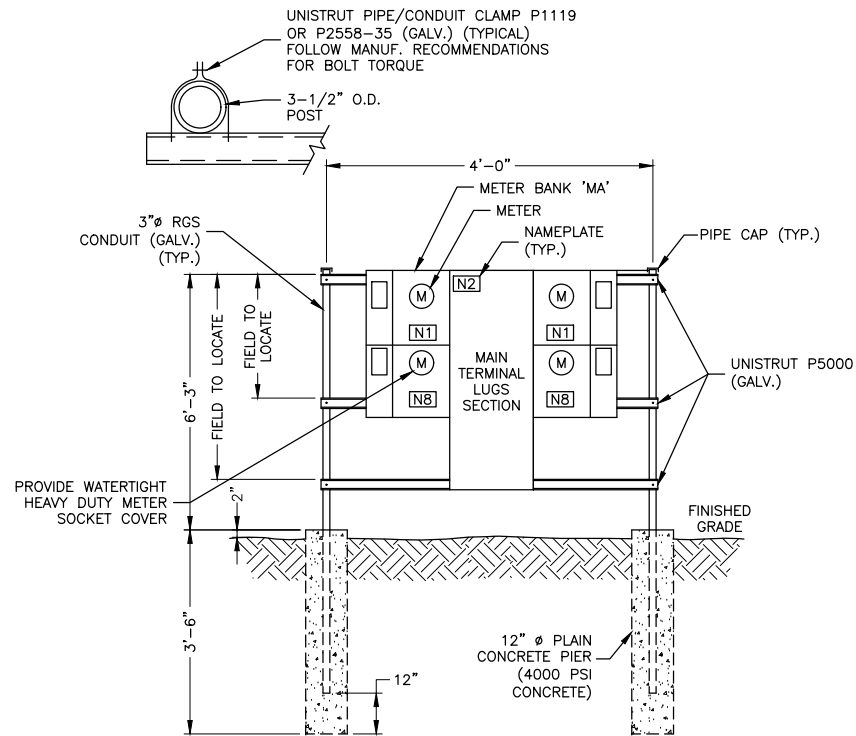
NOTES:

- CONTRACTOR TO VERIFY FINAL PAD DIMENSIONS PRIOR TO CONSTRUCTION OF FOUNDATION.
- GRADE SHALL SLOPE AWAY FROM THE CONCRETE PAD TO ALLOW FOR PROPER WATER RUNOFF.
- ANCHOR EQUIPMENT TO FOUNDATION PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.
- IF BEDROCK IS ENCOUNTERED AT A SHALLOW DEPTH, USE DETAIL 4, THIS SHEET.
- BEARING STRATA MEDIUM TO DENSE INSET GRANULAR MATERIAL OR COMPACTED GRAVEL FILL. 95% COMPACTION.
- FILL SHALL CONSIST OF CLEAN SOIL. NO DELETERIOUS MATERIALS OR ORGANICS TO BE USED.
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI.
- MAINTAIN 3" MIN. COVER ON ALL STEEL REINFORCEMENT.

2

3

4



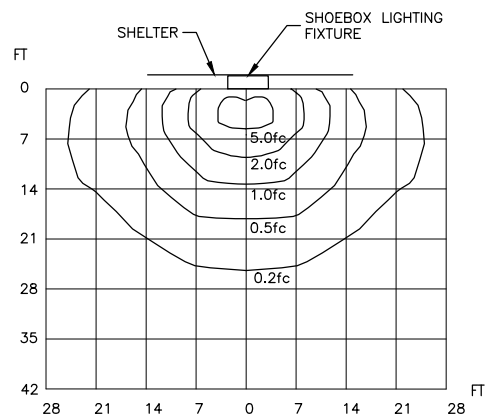
NOTE:

1. MOUNT METER BANK AND MAIN LUGS SECTION PER MANUFACTURER'S RECOMMENDATION AND INSTRUCTIONS.

MULTIPLE POWER METER MOUNTING

SCALE: N.T.S.

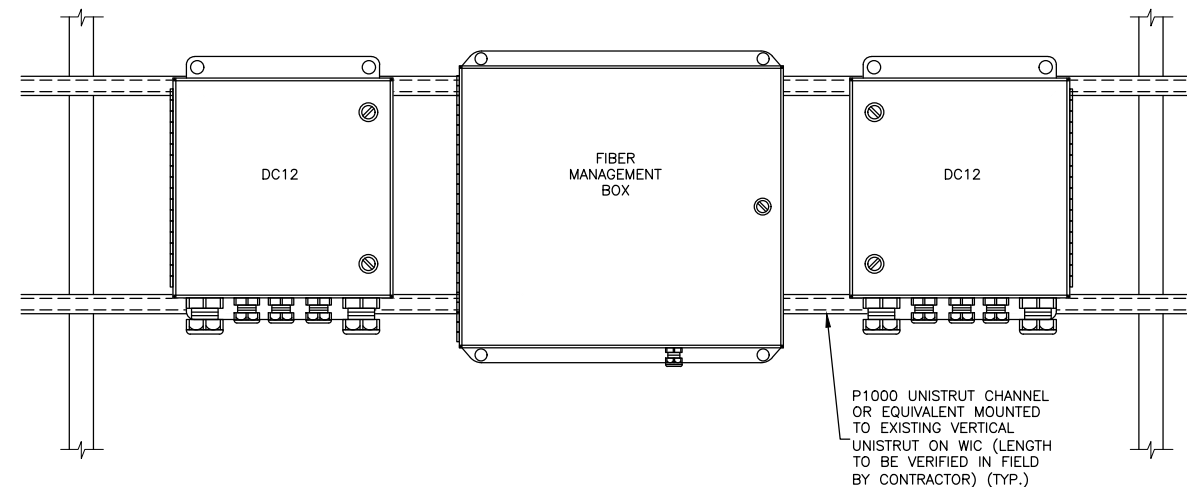
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ISO FOOT CANDLE PLOT WALL MOUNTED-PAK 70W LIGHT FIXTURE MOUNTING HEIGHT 8'-0"

SCALE: N.T.S.

2



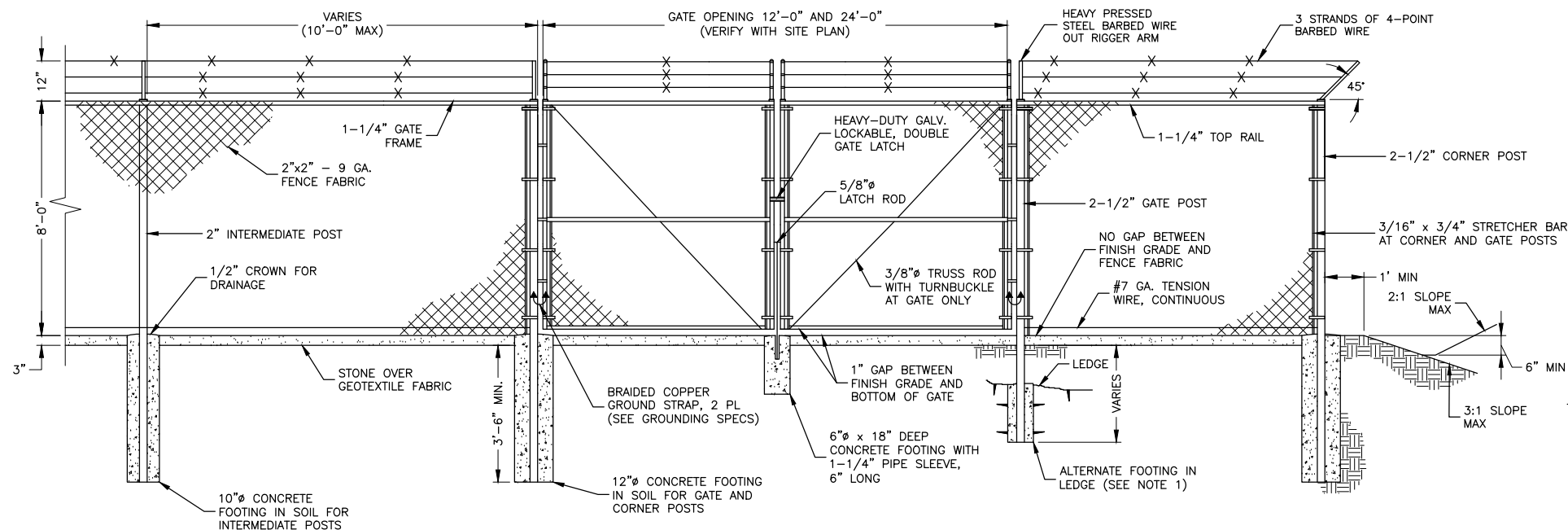
DC12 & FMB DETAIL

SCALE: N.T.S.

3

NOTES:

1. ALCATEL-LUCENT (ALU) VIA AT&T SUPPLIES THE RRH. CONTRACTOR SHALL SUPPLY ALL OTHER MATERIALS AND INSTALL ALL MOUNTING HARDWARE. ALU INSTALLS RRH AND MAKES CABLE TERMINATIONS.
2. MOUNT UNISTRUT TO 2-1/2" STD. PIPE WITH 1/2" GALV. U-BOLTS.
4. MOUNT RRH TO UNISTRUT WITH 3/8" UNISTRUT BOLTING HARDWARE AND SPRING NUTS. TYPICAL FOUR PER BRACKET. CONTRACTOR SHALL SUPPLY.
5. MOUNT FIBER AND POWER DISTRIBUTION BOX WITH FOUR (4) 1/4" UNISTRUT BOLTING HARDWARE AND SPRING NUTS.
6. NO PAINTING OF THE RRH OR SOLAR SHIELD ALLOWED.
7. SEE SITE PLAN FOR QUANTITY



FENCE AND ACCESS GATE

SCALE: N.T.S.

4

FENCE NOTES:

1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.
2. ATTACH EACH GATE WITH 1-1/2" PAIR OF NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180° OF GATE TRAVEL.
3. INSTALL SWALE AROUND COMPOUND (MIN. DEPTH: 6") TO ALLOW FOR DRAINAGE.
4. CONCRETE FOOTINGS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
5. GREEN SLATS TO BE INSTALLED IN THE FENCING.



New Cingular Wireless PCS, LLC
One AT&T Way
Bedminster, NJ 07921



WICKATUNK
FA#: 14209075
SITE#: NWL00575

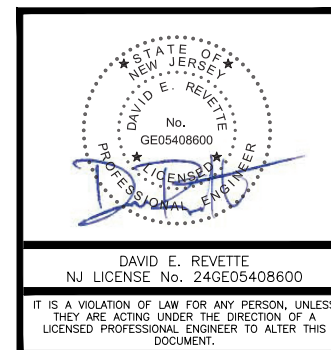
ZONING DRAWINGS

REV	DATE	DESCRIPTION
1	06/25/20	ISSUED FOR ZONING
0	04/22/20	ISSUED FOR ZONING
C	04/06/20	ISSUED FOR REVIEW
B	03/04/20	ISSUED FOR REVIEW
A	01/29/20	ISSUED FOR REVIEW



Dewberry Engineers Inc.

600 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710
COA 24GA28047600



DRAWN BY: JC

REVIEWED BY: GHN

CHECKED BY: GHN

PROJECT NUMBER: 50110598

JOB NUMBER: 50110612

SITE ADDRESS:

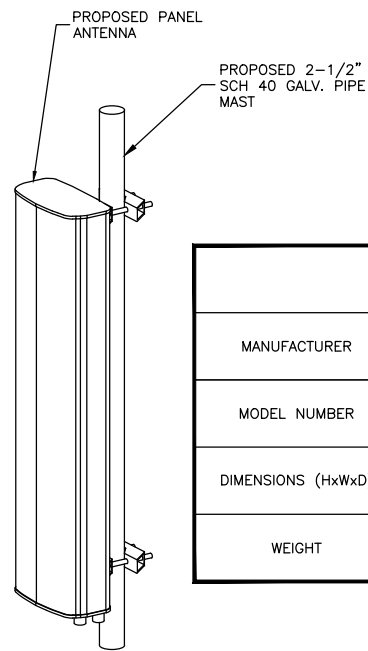
316 TENNENT ROAD
MORGANVILLE, NJ 07751
MARLBORO TOWNSHIP

SHEET TITLE

CONSTRUCTION
DETAILS III

SHEET NUMBER

Z-8



ANTENNA SPECIFICATIONS		
MANUFACTURER	CCI	COMMSCOPE
MODEL NUMBER	OPA45R-BU5CA-K	NNHH-65B-R4
DIMENSIONS (HxWxD)	55.4" x 29.1" x 8.9"	72.0" x 19.6" x 7.8"
WEIGHT	70.5 LBS	66.1 LBS

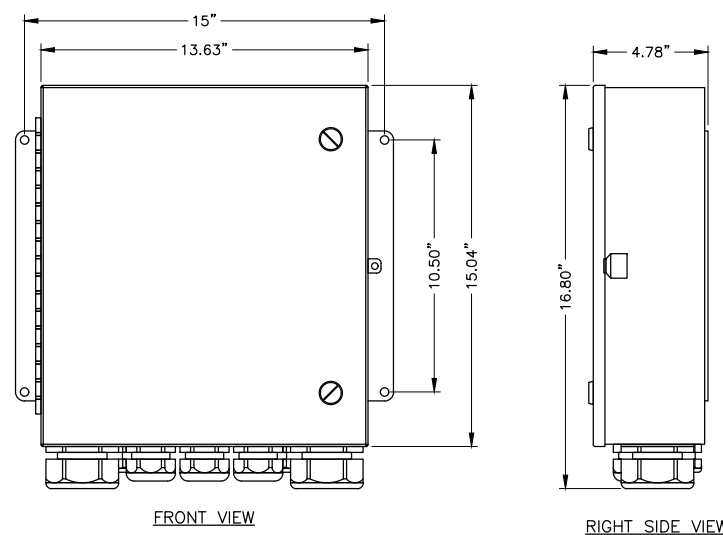
NOTES:

1. MOUNT ANTENNA PER MANUFACTURER'S RECOMMENDATIONS.
2. WEIGHT DOES NOT INCLUDE MOUNTING BRACKETS.

ANTENNA PIPE MOUNT DETAIL

SCALE: N.T.S.

1



FRONT VIEW

RIGHT SIDE VIEW

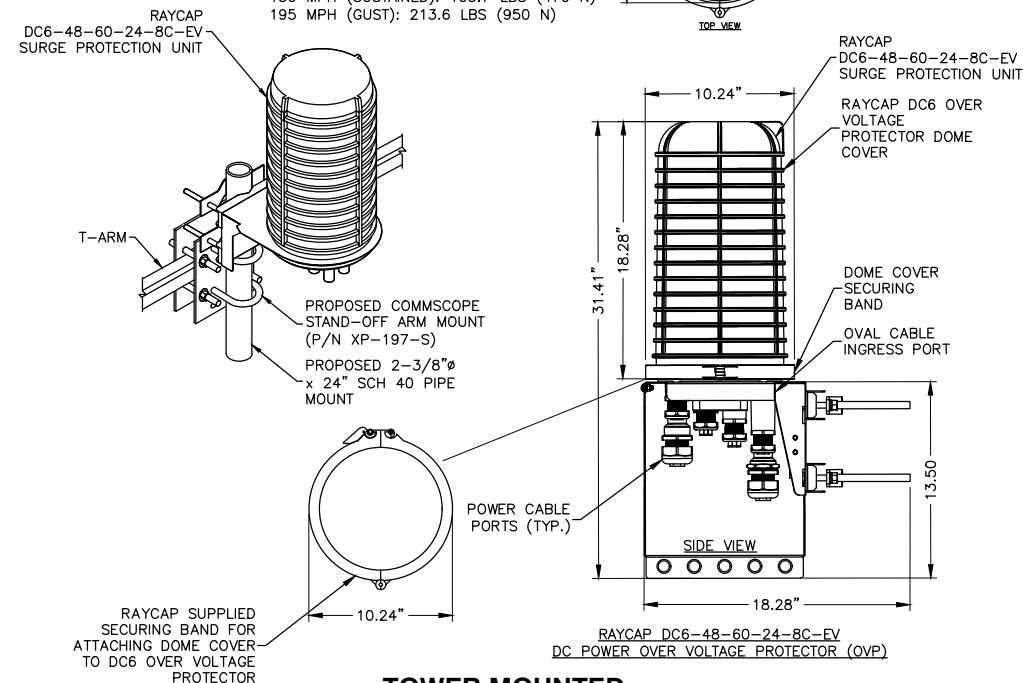
DC12-48-60-0-25E DETAIL

SCALE: N.T.S.

2

WEIGHT:
 SYSTEM: 16.0 LBS (7.25 Kg)
 MOUNT: 10.2 LBS (4.62 Kg)
 TOTAL: 26.2 LBS (11.87 Kg)

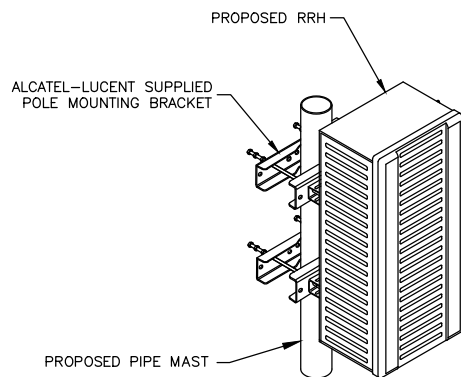
COMBINED WIND LOADING:
 150 MPH (SUSTAINED): 105.7 LBS (470 N)
 195 MPH (GUST): 213.6 LBS (950 N)



TOWER MOUNTED SURGE ARRESTOR DETAIL

SCALE: N.T.S.

3



AT SECTOR

NOTES:

1. MOUNT REMOTE RADIO HEAD PER MANUFACTURER'S RECOMMENDATIONS.
2. SIZES INCLUDE SOLAR SHIELD.
3. CONTRACTOR TO VERIFY THAT PROPOSED RRH UNITS HAVE ADEQUATE CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS. ADJUST SPACING ON UNISTRUT TO ACCOMMODATE.

RRH SPECIFICATIONS	
MANUFACTURER	ALCATEL-LUCENT
MODEL NUMBER	RRH 2x40-07L-DE
DIMENSIONS (HxWxD)	24.8" x 11.5" x 6.1"
WEIGHT	52.9 LBS
FIBER #	1

RRH SPECIFICATIONS	
MANUFACTURER	NOKIA
MODEL NUMBER	AIRSCALE RRH4T4R B12/B14 320W (AHLBA)
DIMENSIONS (HxWxD)	28.7" x 15.4" x 9.4"
WEIGHT	101.2 LBS
FIBER #	2

RRH SPECIFICATIONS	
MANUFACTURER	NOKIA
MODEL NUMBER	AIRSCALE 4T4R B5
DIMENSIONS (HxWxD)	13.3" x 11.6" x 6.5"
WEIGHT	36.7 LBS
FIBER #	1

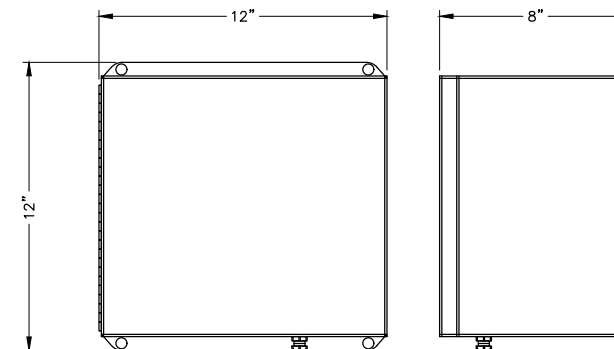
RRH SPECIFICATIONS	
MANUFACTURER	NOKIA
MODEL NUMBER	AIRSCALE RRH4T4R B30 100W (AHCA)
DIMENSIONS (HxWxD)	13.25" X 12.76" X 7.22"
WEIGHT	39.02 LBS
FIBER #	1

RRH SPECIFICATIONS	
MANUFACTURER	NOKIA
MODEL NUMBER	AIRSCALE RRH4T4R B25/B66 320W (AHFIB)
DIMENSIONS (HxWxD)	28.7" x 15.4" x 9.4"
WEIGHT	88.2 LBS
FIBER #	2

ALCATEL-LUCENT REMOTE RADIO HEAD (RRH) @ ANTENNAS

SCALE: N.T.S.

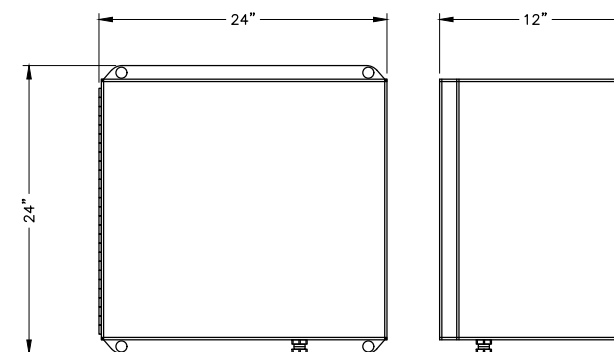
4



FIBER MANAGEMENT BOX @ TOWER DETAIL

SCALE: N.T.S.

5



NOTES:

1. DIMENSIONS SHOWN AS APPROXIMATE. VERIFY W/ CM PRIOR TO CONSTRUCTION.

FIBER MANAGEMENT BOX @ WIC DETAIL

SCALE: N.T.S.

6



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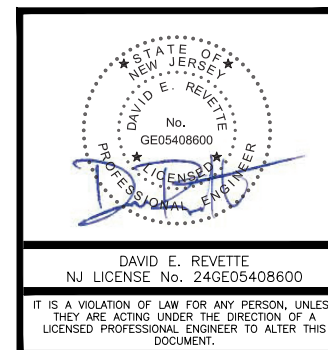
WICKATUNK
FA#: 14209075
SITE#: NWL00575

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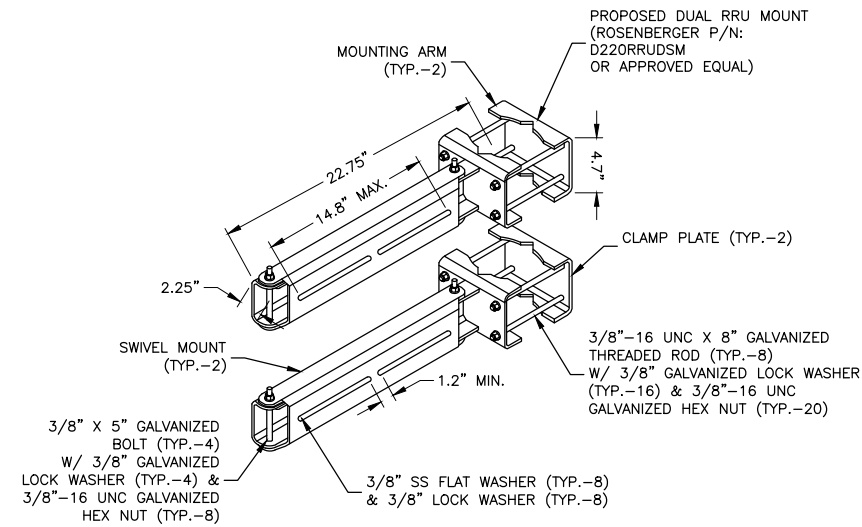
316 TENNET ROAD
 MORGANVILLE, NJ 07751
 MARLBORO TOWNSHIP

SHEET TITLE

CONSTRUCTION
 DETAILS IV

SHEET NUMBER

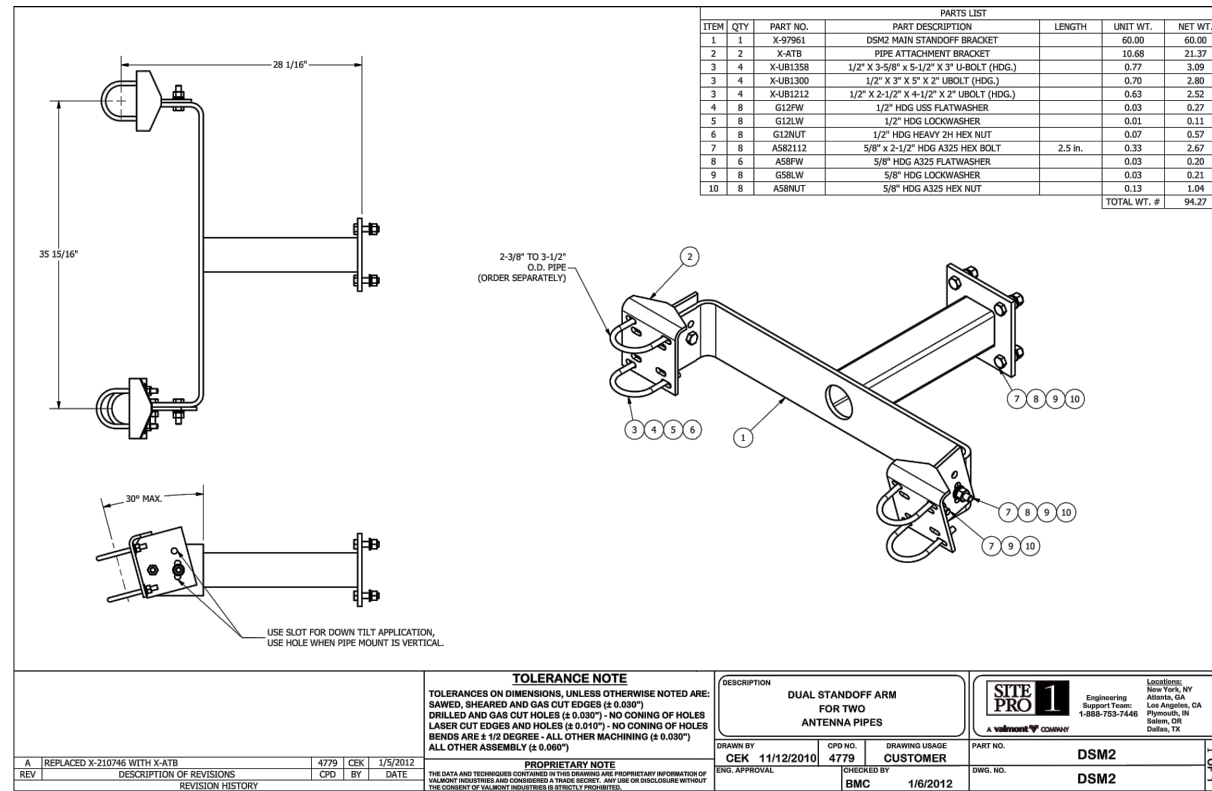
Z-9



RRU DUAL SWIVEL MOUNT DETAIL

SCALE: N.T.S.

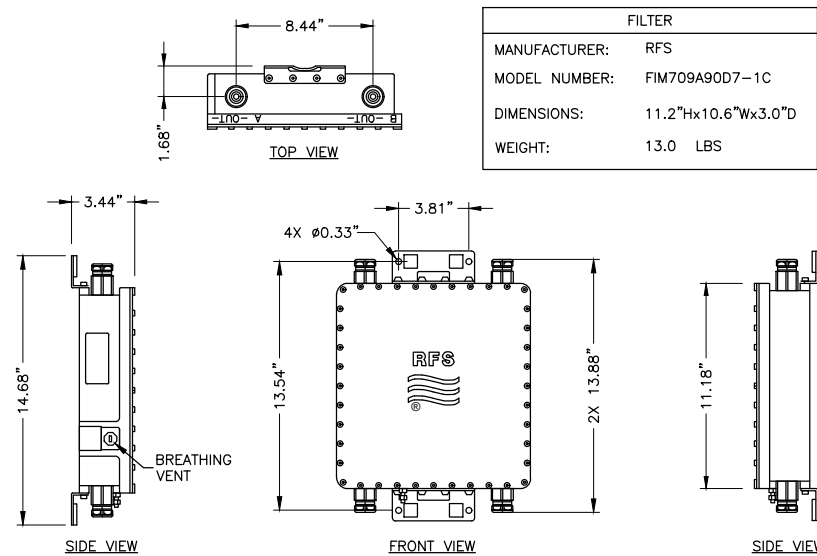
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STANDOFF ARM

SCALE: N.T.S.

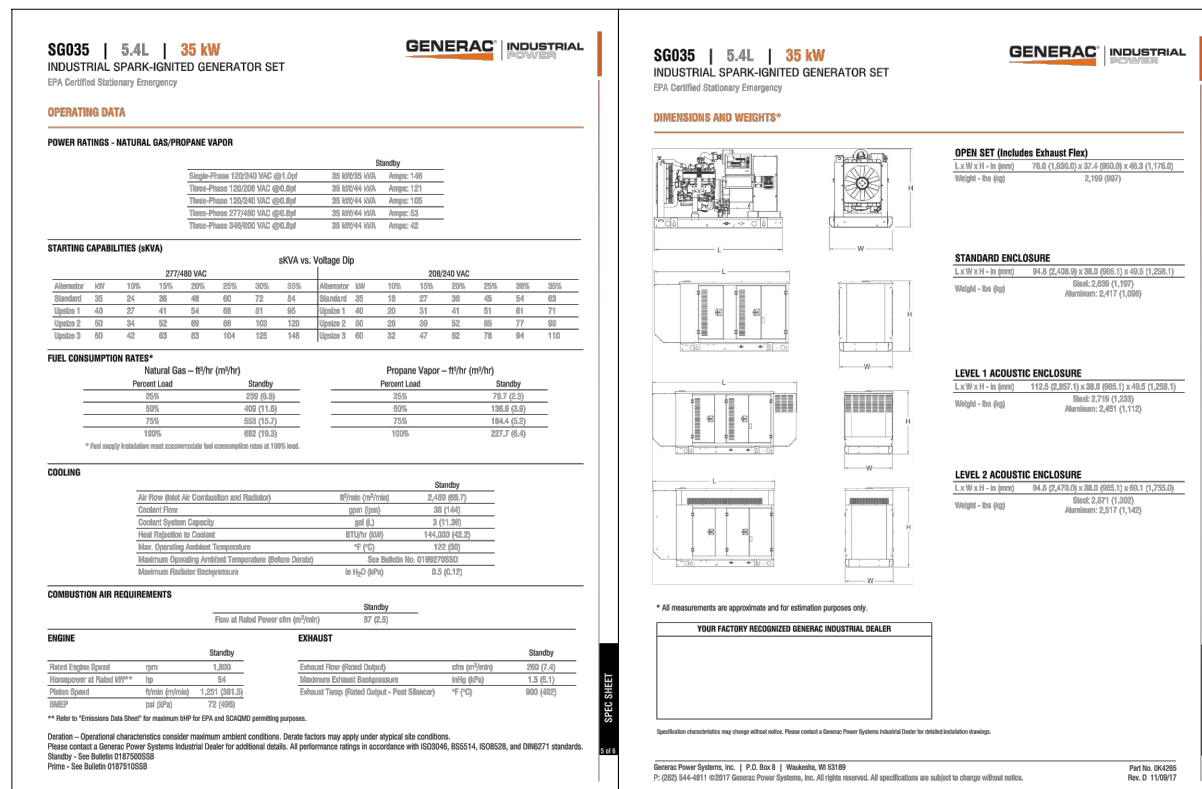
2



700DE FILTER DETAIL

SCALE: N.T.S.

3



35 kW NATURAL GAS GENERATOR DETAIL

SCALE: N.T.S.

4



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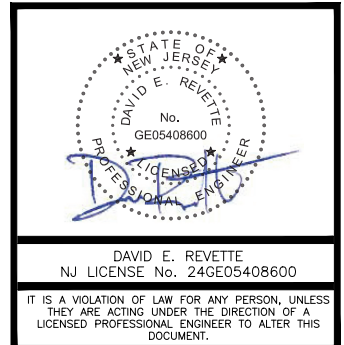
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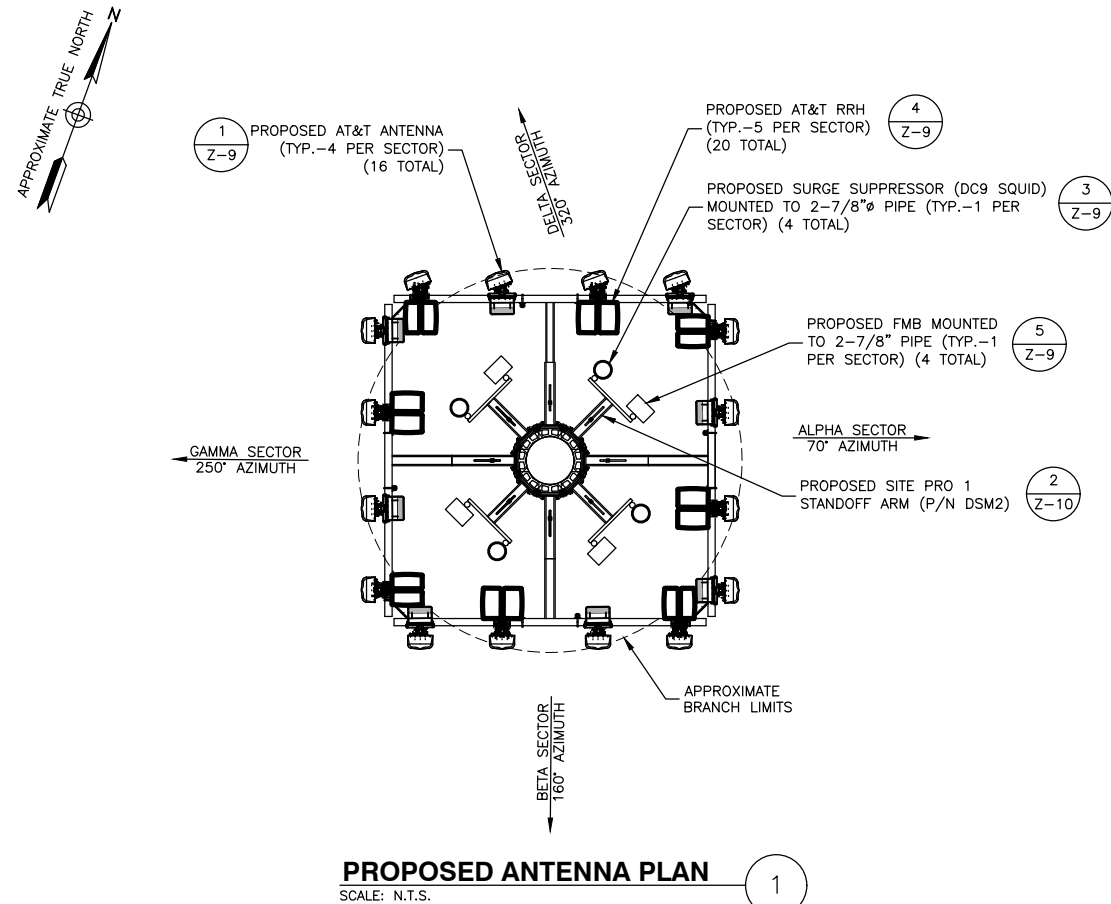
316 TENNET ROAD
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MARLBORO TOWNSHIP

SHEET TITLE

CONSTRUCTION DETAILS V

SHEET NUMBER

Z-10



ANTENNA MOUNTING NOTES:

- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO CURRENT ANSI/TIA-222 OR APPLICABLE LOCAL CODES.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS NOTED OTHERWISE.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS NOTED OTHERWISE.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
- ALL ANTENNA MOUNTS SHALL BE INSTALLED WITH LOCK NUTS, DOUBLE NUTS AND SHALL BE TORQUED TO MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
- ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
- PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 5% AS DEFINED BY THE RFDS. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5% AS DEFINED BY THE RFDS. REFER TO ND-00246.
- JUMPERS FROM THE TMA'S MUST TERMINATE TO OPPOSITE POLARIZATION'S IN EACH SECTOR.
- CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO AT&T.
- TMA'S SHALL BE MOUNTED ON PIPE DIRECTLY BEHIND ANTENNAS AS CLOSE TO ANTENNA AS FEASIBLE IN A VERTICAL POSITION.
- ANTENNAS SHALL HAVE A 4'-0" MIN CENTER TO CENTER HORIZONTAL SEPARATION.

TORQUE REQUIREMENTS:

- ALL RF CONNECTIONS SHALL BE TIGHTENED BY A TORQUE WRENCH.
- ALL RF CONNECTIONS, GROUNDING HARDWARE AND ANTENNA HARDWARE SHALL HAVE A TORQUE MARK INSTALLED IN A CONTINUOUS STRAIGHT LINE FROM BOTH SIDES OF THE CONNECTION.
 - RF CONNECTION BOTH SIDES OF THE CONNECTOR.
 - GROUNDING AND ANTENNA HARDWARE ON THE NUT SIDE STARTING FROM THE THREADS TO THE SOLID SURFACE. EXAMPLE OF SOLID SURFACE: GROUND BAR, ANTENNA BRACKET METAL.
- ALL 8M ANTENNA HARDWARE SHALL BE TIGHTENED TO 9 LB-FT (12 NM).
- ALL 12M ANTENNA HARDWARE SHALL BE TIGHTENED TO 43 LB-FT (58 NM).
- ALL GROUNDING HARDWARE SHALL BE TIGHTENED UNTIL THE LOCK WASHER COLLAPSES AND THE GROUNDING HARDWARE IS NO LONGER LOOSE.
- ALL DIN TYPE CONNECTIONS SHALL BE TIGHTENED TO 18-22 LB-FT (24.4 - 29.8 NM).
- ALL N TYPE CONNECTIONS SHALL BE TIGHTENED TO 15-20 LB-IN (1.7 - 2.3 NM).

FIBER & POWER CABLE MOUNTING NOTES:

- THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INTER DUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE 600 VOLT CABLES AND THE INTER DUCT IN ORDER TO SEGREGATE CABLE TYPES. OPTIC FIBER TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
- THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION; WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
- WHEN INSTALLING OPTIC FIBER TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

GENERAL CONSTRUCTION NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ANTENNA, TMAS, DIPLEXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
- ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
- ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
- IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
 - TEMPERATURE SHALL BE ABOVE 50° F.
 - PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
 - FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
 - DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.

GENERAL GROUNDING NOTES:

- ALL CABLES SHALL BE GROUNDED WITH COAXIAL CABLE GROUNDING KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
 - GROUNDING AT THE ANTENNA LEVEL.
 - GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
 - GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
 - GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
 - GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
- ALL PROPOSED GROUNDING BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUNDING BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUNDING BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANTENNA AND THE COAX CONFIGURATION IS THE CORRECT MAKE AND MODELS, PRIOR TO INSTALLATION.
- DISTANCE FROM RRH TO SURGE ARRESTOR TO BE A MAXIMUM OF 5 METERS.
- ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S SPECIFICATION AND RECOMMENDATIONS.
- CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.



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WICKATUNK
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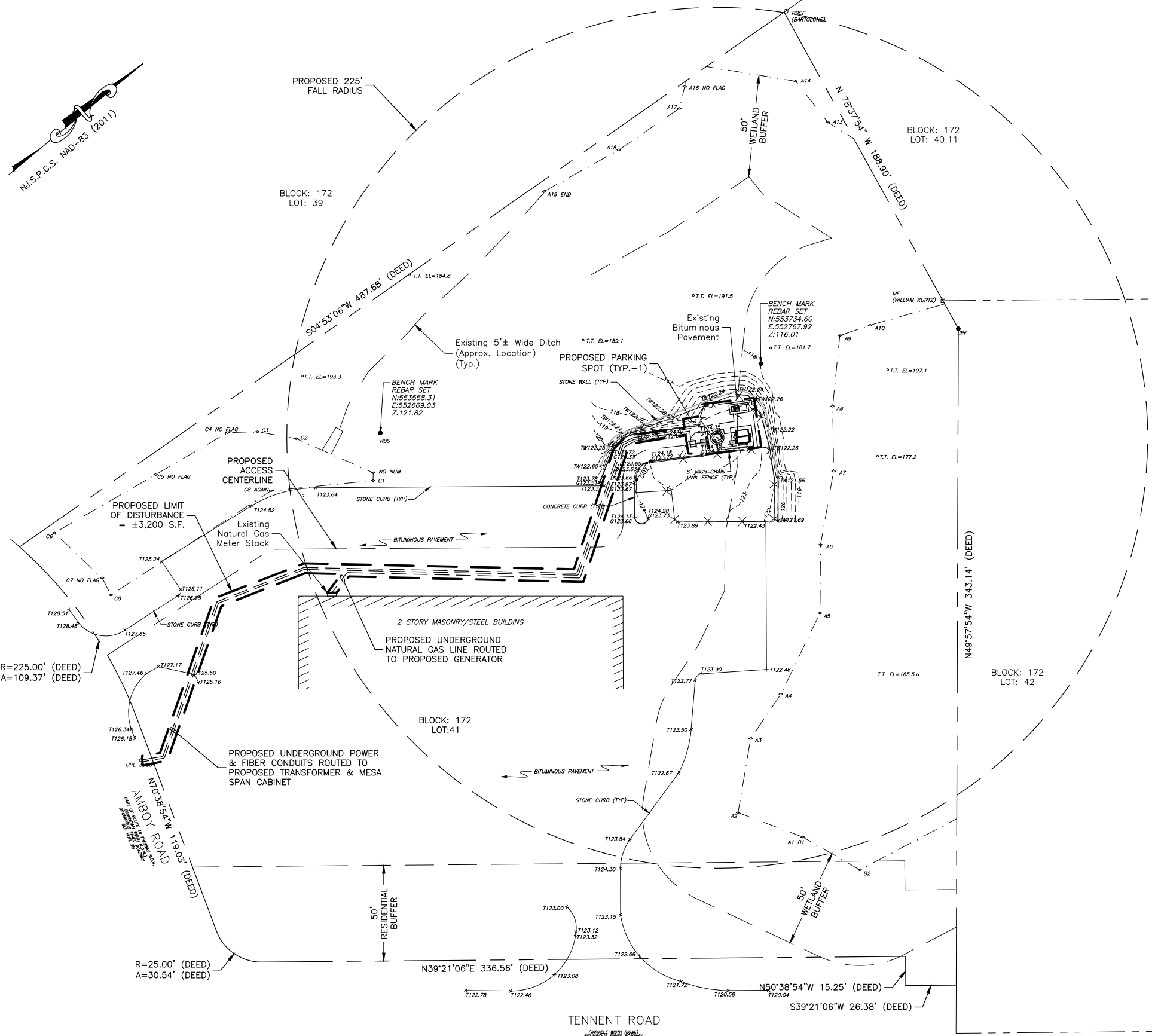
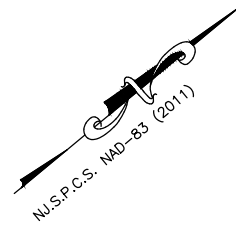
DAVID E. REVETTE
NJ LICENSE No. 24GE05408600

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

DRAWN BY:	JC
REVIEWED BY:	GHN
CHECKED BY:	GHN
PROJECT NUMBER:	50110598
JOB NUMBER:	50110612
SITE ADDRESS:	

316 TENNENT ROAD
MORGANVILLE, NJ 07751
MARLBORO TOWNSHIP

SHEET TITLE	ANTENNA MOUNT DETAILS & NOTES
SHEET NUMBER	Z-11



SOIL EROSION & SEDIMENT CONTROL PLAN
 SCALE: 3/64"=1' FOR 11"x17"
 3/32"=1' FOR 22"x34"
 0' 8' 16' 24'

NOTES:

- SUBJECT PROPERTIES ARE KNOWN AS BLOCK 172, LOT 42 AS SHOWN ON THE OFFICIAL TAX ASSESSMENT MAP OF THE TOWNSHIP OF MARLBORO, SHEET 48.
- ZONING CLASSIFICATION: IOR: INDUSTRIAL-OFFICE-RESEARCH
- APPLICANT: AT&T MOBILITY
NEW CINGULAR WIRELESS PCS, LLC ("AT&T")
1 AT&T WAY
BEDMINSTER, NJ 07921
- PROPERTY OWNER: AMBTEN ROAD ASSOCIATES, LLC.
44 NIKKI COURT
MORGANVILLE, NJ 07751
- SUBJECT TO THE FINDINGS OF A TITLE SEARCH AND SURVEY.
- THIS PLAN IS NOT INTENDED TO DELINEATE OR DEFINE UNDERGROUND UTILITIES. THE USER IS CAUTIONED TO CONTACT NEW JERSEY ONE CALL FOR UTILITY MARKOUTS AT 1-800-272-1000.
- THE PROPOSED USE IS FOR TELECOMMUNICATIONS AND IS NOT INTENDED FOR PERMANENT EMPLOYEE OCCUPANCY. THEREFORE, POTABLE WATER, SANITARY SEWERS, AND ADDITIONAL ON SITE PARKING ARE NOT REQUIRED.
- THE FACILITY SHALL BE VISITED ON THE AVERAGE OF ONCE A MONTH FOR MAINTENANCE AND SHALL BE CONTINUOUSLY MONITORED FROM A REMOTE FACILITY FOR BOTH FIRE AND INTRUSION.
- THE FACILITIES ARE REMOTELY OPERATED AND CONTROLLED, AND AS SUCH, ARE NORMALLY UNMANNED. A COMPUTERIZED EQUIPMENT AND FACILITY ALARM SYSTEM CONTINUOUSLY MONITORS AN EXTENSIVE NUMBER OF OPERATING AND BUILDING FUNCTIONS. UNPLANNED EVENTS WILL TRIGGER ALARM REPORTS TO VERIZON WIRELESS HEADQUARTERS LOCATION IN BEDMINSTER, NJ, RANGING FROM ROUTINE REPORTS TO IMMEDIATE ACTIVATION OF LOCAL PERSONNEL OR EMERGENCY SERVICES, 24 HOURS A DAY.
- A MANUALLY ACTUATED LED WALL PACK LIGHT WITH TIMER IS ATTACHED TO THE EQUIPMENT SHELTER TO PROVIDE AREA LIGHTING DURING MAINTENANCE ONLY.
- ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - CURRENT PREVAILING MUNICIPAL AND/OR STATE SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
 - CURRENT PREVAILING UTILITY COMPANY AUTHORITY SPECIFICATIONS, STANDARDS AND REQUIREMENTS.
- CONTRACTOR SHALL CONTACT "GARDEN STATE UNDERGROUND PLANT LOCATION SERVICE" AT 1-800-272-1000 AND LOCATE ALL EXISTING UTILITIES WITHIN THE AREA OF WORK PRIOR TO START OF EXCAVATION.
- CONTRACTOR SHALL COORDINATE & COMPLY WITH EXISTING UTILITY COMPANIES' REQUIREMENTS.
- THERE ARE NO PROPOSED ALTERATIONS, IMPROVEMENTS OR RELOCATIONS FOR ANY STREAMS OR EXISTING DRAINAGE STRUCTURES WITHIN THE PROPERTY.
- BASED ON THE NATIONAL WETLANDS INVENTORY MAPS FOR NEW JERSEY, MARLBORO TOWNSHIP NJ QUADRANGLE MAP, WETLANDS ARE NOT PRESENT ON THE SITE.
- THESE DRAWINGS ARE PROVIDED FOR ZONING APPROVAL. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
- BEFORE CONSTRUCTION A STRUCTURAL ANALYSIS OF TOWER WILL BE PERFORMED. A COPY OF THE STRUCTURAL ANALYSIS WILL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW WHEN A BUILDING PERMIT APPLICATION IS SUBMITTED.
- NO LANDSCAPING IS PROPOSED AT THIS FACILITY.
- A SOIL EROSION AND SEDIMENT CONTROL CERTIFICATION WILL NOT BE REQUIRED SINCE THERE IS LESS THAN 5,000 S.F. DISTURBANCE.
- NO TREES ARE TO BE REMOVED UNDER THIS SUBMITTAL.



WICKATUNK
FA#: 14209075
SITE#: NWL00575

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 MARLBORO TOWNSHIP

SHEET TITLE
 SOIL EROSION & SEDIMENT CONTROL PLAN
 SHEET NUMBER

SC-1

FREEHOLD SOIL CONSERVATION NOTES:

1. THE FREEHOLD SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY SOIL DISTURBING ACTIVITY.
2. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
4. N.J.S.A 4:24-39 ET. SEQ. REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE DISTRICT DETERMINES THAT A PROJECT OR PORTION THEREOF IS IN FULL COMPLIANCE WITH THE CERTIFIED PLAN AND STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY AND A REPORT OF COMPLIANCE HAS BEEN ISSUED. UPON WRITTEN REQUEST FROM THE APPLICANT, THE DISTRICT MAY ISSUE A REPORT OF COMPLIANCE WITH CONDITIONS ON A LOT-BY-LOT OR SECTION-BY-SECTION BASIS, PROVIDED THAT THE PROJECT OR PORTION THEREOF IS IN SATISFACTORY COMPLIANCE WITH THE SEQUENCE OF DEVELOPMENT AND TEMPORARY MEASURES FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN IMPLEMENTED, INCLUDING PROVISIONS FOR STABILIZATION AND SITE WORK.
5. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SIXTY (60) 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 THE STANDARD FOR STABILIZATION WITH MULCH ONLY.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. SOIL STOCKPILES, STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AND A MULCH ANCHOR, IN ACCORDANCE WITH STATE STANDARDS.
7. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN FIFTEEN (15) DAYS OF THE PRELIMINARY GRADING.
8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A PAD OF CLEAN CRUSHED STONE AT POINTS WHERE TRAFFIC WILL BE ACCESSING THE CONSTRUCTION SITE. AFTER INTERIOR ROADWAYS ARE PAVED, INDIVIDUAL LOTS REQUIRE A STABILIZED CONSTRUCTION ACCESS CONSISTING 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 SHALL BE BLOCKED OFF.
9. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS WILL BE REMOVED IMMEDIATELY.
10. PERMANENT VEGETATION IS TO BE SEEDING OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING.
11. AT THE TIME THAT SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE 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, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
12. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 10 TONS/ACRE, (OR 450 LBS/1,000 SQ FT OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12" OF SETTLED SOIL WITH A PH OF 5 OR MORE, OR 24" WHERE TREES OR SHRUBS ARE TO BE PLANTED.
13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
14. 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.
15. 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 BY THE STANDARD FOR DUST CONTROL.
16. 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.
17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #6.
18. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

CONSTRUCTION SEQUENCE:

WORK TO BE PERFORMED	APPROXIMATE DURATION
1. INSTALL SOIL EROSION CONTROL MEASURES.	1 DAY
2. CLEAR AREA	0.5 DAYS
3. CONSTRUCT FOUNDATION	2 DAYS
4. INSTALL EQUIPMENT	10 DAYS
5. INSTALL UNDERGROUND UTILITIES	2 DAYS
6. INSTALL PERMANENT STABILIZATION MEASURES (INCLUDING GRAVEL SURFACES, FENCING AND SEEDING)	1 DAY

NOTE:

1. CONSTRUCTION SHALL BE STARTED AND COMPLETED AS A SINGLE PHASE.

TOPSOIL STOCKPILE PROTECTION:

1. CONSTRUCT TEMPORARY DIVERSION BERM AND/OR HAY BALE BARRIER AROUND STOCKPILE AREA AS REQUIRED.
2. APPLY LIMESTONE AT A RATE OF 90 LBS/1000 S.F.
3. APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LB/1000 S.F.
4. APPLY PERENNIAL RYEGRASS AT A RATE OF 1 LB/1000 S.F.
5. MULCH WITH UNROTTED SALT HAY OR SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. APPLY AT A RATE OF 90 LBS/1000 S.F.

TEMPORARY STABILIZATION SPECIFICATIONS:

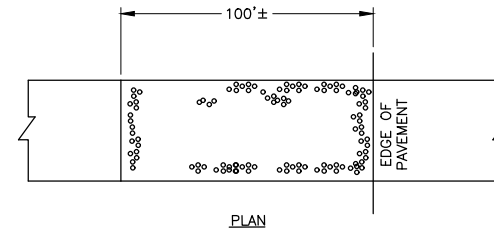
1. APPLY GROUND LIMESTONE AT A RATE OF 2 TONS/ACRE TO A DEPTH OF 4 INCHES.
2. APPLY FERTILIZER (10-20-10) AT A RATE OF 500 LBS/ACRE OR 11 LBS/1000 S.F. WITH 50% WATER INSOLUBLE NITROGEN TO A DEPTH OF 4 INCHES.
3. APPLY SEED MIXTURE:
PERENNIAL RYEGRASS AT 100 LBS/ACRE AT A DEPTH OF 1/2 INCH.
APPLY SEED MIXTURE UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDER OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
4. PLANT SEED BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1, IF POSSIBLE.
5. MULCH WITH UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS IMMEDIATELY AFTER SEEDING. APPLY AT A RATE OF 70 TO 90 LBS/1000 S.F., ACCORDING TO THE N.J. STANDARD. SPREAD MULCH UNIFORMLY BY HAND SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE IS COVERED.
6. ANCHOR MULCH IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS:
 - 6.1. PEG AND TWINE: DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
 - 6.2. MULCH NETTINGS: STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.

PERMANENT STABILIZATION SPECIFICATIONS:

1. PERMANENT STABILIZATION SPECIFICATIONS BELOW ARE BASED ON THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY FOR COMMERCIAL APPLICATIONS WITH WELL TO MODERATELY WELL DRAINED SOILS WITH THE PLANT HARDNESS ZONE 6B.
2. APPLY TOPSOIL TO A DEPTH OF 5 INCHES.
3. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS/1000 S.F.
4. APPLY FERTILIZER (10-10-10) AT A RATE OF 500 LBS/ACRE OR 11 LBS/1000 S.F. WITH 50% WATER INSOLUBLE NITROGEN INCORPORATED INTO THE SURFACE 4 INCHES.
5. APPLY SEED MIXTURE:
HARD FESCUE AT 130 LBS/ACRE, CHEWINGS FESCUE AT 45 LBS/ACRE, STRONG CREEPING RED FESCUE AT 45 LBS/ACRE AND PERENNIAL RYEGRASS AT 10 LBS/ACRE OR APPROVED EQUAL.
APPLY SEED MIXTURE UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDER, 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 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE-TEXTURED SOIL.
6. PLANT SEED BETWEEN AUGUST 15 AND OCTOBER 1, IF POSSIBLE.
7. MULCH WITH UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS IMMEDIATELY AFTER SEEDING. APPLY AT A RATE OF 70 TO 90 LBS/1000 S.F., ACCORDING TO THE N.J. STANDARD. SPREAD MULCH UNIFORMLY BY HAND OR SO THAT AT LEAST 85% OF THE SOIL SURFACE IS COVERED.
8. ANCHOR MULCH IMMEDIATELY AFTER PLACEMENT BY ONE OF THE FOLLOWING METHODS:
 - 8.1. PEG AND TWINE: DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE WITHIN PEGS IN A CRIS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
 - 8.2. MULCH NETTINGS: STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
9. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDING WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH APPLIED UP TO TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED).

GENERAL NOTES:

1. STONE TRACKING PAD WILL BE USED IN ACCORDANCE WITH CONSTRUCTION MITIGATION MEASURES ISSUED BY THE TOWNSHIP OF WEST MILFORD PLANNING BOARD.
2. REFER TO SHEET Z-2 FOR OVERALL SITE PLAN AND SHEET SC-1 FOR PARTIAL SITE PLAN.

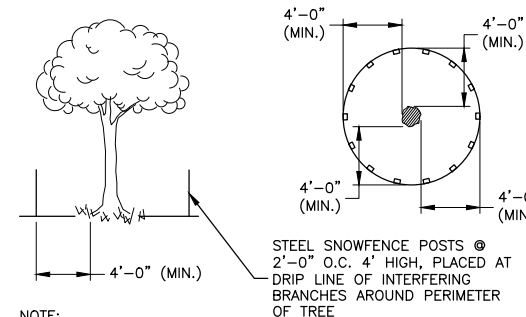


NOTE:

1. CRUSHED STONE TRACKING PAD SHALL BE INSTALLED AT A MINIMUM OF 100 FEET FROM THE EDGE OF WORK LIMITS (IF CONDITIONS DICTATE) IMMEDIATELY AFTER ROUGH GRADING ROAD. BLANKET (2 1/2" CRUSHED STONE, 6" THICK) SHALL BE PLACED DIRECTLY OVER A FILTER FABRIC TO PREVENT STONE FROM WORKING INTO SOIL UNDER HEAVY TRAFFIC.
2. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND EXISTING DRIVEWAY.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

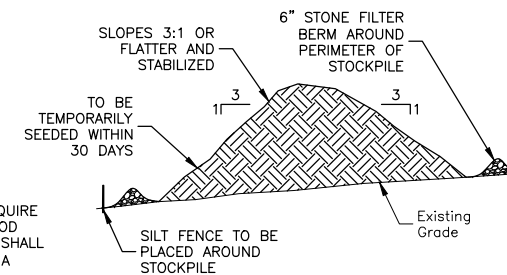


NOTE:

1. THE LANDSCAPE ARCHITECT SHALL DETERMINE WHICH TREES SHALL REQUIRE PROTECTION DURING CONSTRUCTION AND SHALL DETERMINE THE METHOD OF PROTECTION TO BE EMPLOYED. WHERE TRIMMING IS NECESSARY IT SHALL BE DONE ACCORDING TO THE LANDSCAPE ARCHITECT'S DIRECTIONS BY A LICENSED TREE SURGEON.

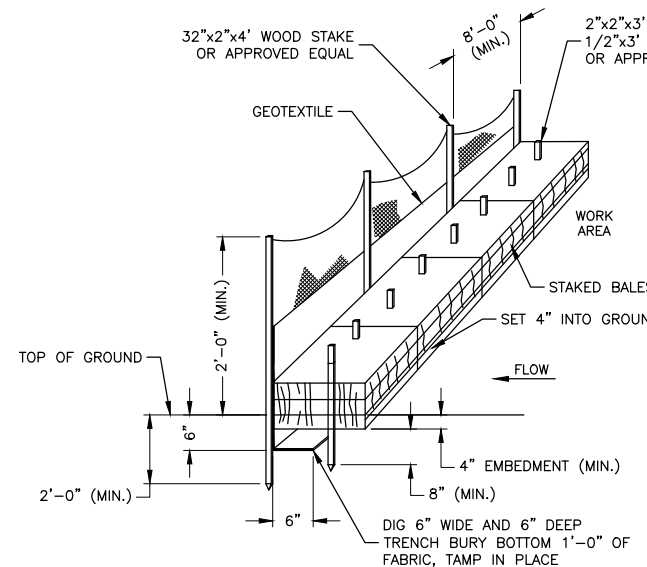
TREE DRIP LINE PROTECTION

SCALE: N.T.S.



TOPSOIL STOCKPILE

SCALE: N.T.S.



NOTES:

1. HAY BALE SHALL BE PLACED PRIOR TO CONSTRUCTION ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT HAY BALE.
2. GEOTEXTILE FABRIC SHALL BE SECURED TO POST WITH METAL FASTENERS AND REINFORCEMENT BETWEEN FASTENER AND FABRIC.
3. EACH HAYBALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
4. HAY BALE SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE HAYBALE. THE FIRST STAKE IN EACH HAYBALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID HAYBALE AT AN ANGLE TO FORCE THE THE HAY BALE TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE HAYBALE.
5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. UPON COMPLETION OF CONSTRUCTION AND STABILIZATION OF ALL DISTURBED AREAS, EROSION CONTROL MEASURES ARE TO BE REMOVED.

SILT FENCE-HAY BALE BARRIER DETAIL

SCALE: N.T.S.



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ZONING DRAWINGS		
1	06/25/20	ISSUED FOR ZONING
0	04/22/20	ISSUED FOR ZONING
C	04/06/20	ISSUED FOR REVIEW
B	03/04/20	ISSUED FOR REVIEW
A	01/29/20	ISSUED FOR REVIEW

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LICENSED PROFESSIONAL ENGINEER
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NJ LICENSE No. 24GE05408600
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT.

DRAWN BY:	JC
REVIEWED BY:	GHN
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PROJECT NUMBER:	50110598
JOB NUMBER:	50110612
SITE ADDRESS:	

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MORGANVILLE, NJ 07751
MARLBORO TOWNSHIP

SHEET TITLE	SOIL EROSION, SEDIMENT CONTROL NOTES & DETAILS
SHEET NUMBER	SC-2

SC-2