



VERIZON WIRELESS

777 YAMATO ROAD  
SUITE 600  
BOCA RATON, FL 33431

APPROVALS

CARRIER \_\_\_\_\_  
LANDLORD \_\_\_\_\_  
LEASING \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_

PROJECT NO: 6499.070

DRAWN BY: TJH

CHECKED BY: SMM

APPROVED BY: SMM

REV	DATE	DESCRIPTION
4	3/19/14	FOR CONSTRUCTION
3	3/19/14	PER MUNI COMMENTS
2	10/29/13	PER MUNI COMMENTS
1	9/27/13	FOR CONSTRUCTION
0	9/12/13	ISSUED FOR REVIEW

PROFESSIONAL ENGINEER



STEVEN M. MATTHEWS PE # 73683  
TECTONIC ENGINEERING C.A. # 8540  
(NOT VALID WITHOUT SIGNATURE & SEAL)

SITE NAME: BAYVIEW TERRACE  
1625 JFK CAUSEWAY  
NORTH BAY VILLAGE, FL 33141



AREA MAP



LOCATION MAP

(NAD 83)  
LATITUDE: 25.849111 NORTH  
LONGITUDE: 80.151661 WEST

DRAWING INDEX

DRAWING NO.	DESCRIPTION
01	TITLE SHEET
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JURISDICTION INFORMATION

PERMITTING: MIAMI-DADE COUNTY  
CONTACT: ANA DELEON  
PHONE: (305) 754-6740

PROJECT CONTACTS

APPLICANT ADDRESS

VERIZON WIRELESS  
777 YAMATO ROAD, SUITE 600  
BOCA RATON, FL 33431

CONTACT: CARMELA STARR  
EMAIL: carmela.m.starr@verizonwireless.com  
CELL PHONE: (813) 632-2234

TOWER OWNER

BAYVIEW CONDOMINIUM AT NORTH BAY VILLAGE  
PO BOX 453436  
MIAMI, FL 33245  
CONTACT: GALIANA MGMT. SERVICES  
PHONE: (305) 854-2138

DRAWINGS BY

TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.  
36 BRITISH AMERICAN BLVD, SUITE 101  
LATHAM, NY 12110

CONTACT: STEVEN MATTHEWS  
E-MAIL: smatthews@tectonicengineering.com  
PHONE: (518) 783-1630

APPLICABLE BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:  
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE  
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION  
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222, REVISION CURRENTLY ENFORCED, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES;  
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM  
IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

2010 FLORIDA BUILDING CODE AND 2008 NEC

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.



TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.  
36 BRITISH AMERICAN BLVD, SUITE 101  
LATHAM, NY 12110  
PHONE: 518.783.1630 FAX: 518.783.1544

BAYVIEW TERRACE  
SITE # 68275

SITE ADDRESS  
1625 JFK CAUSEWAY  
NORTH BAY VILLAGE, FL  
33141

SHEET TITLE  
TITLE SHEET

SHEET NUMBER  
01

**GENERAL NOTES:**

1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
3. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
4. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMAN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE SCOPE OF WORK.
5. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
6. IT IS THE INTENTION OF THE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. ALL MATERIAL AND LABOR PROVIDED SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
7. ANY DAMAGE TO THE LANDOWNER'S, TOWER OWNER'S, OR ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE LANDOWNER, ENGINEER, CONSTRUCTION MANAGER, OR OWNER.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. CONTRACTOR SHALL GRADE SITE WORK SO TO CAUSE WATER TO FLOW AWAY FROM EQUIPMENT, UNLESS OTHERWISE NOTED.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE/VERIFY ALL UTILITIES WITHIN THE CONSTRUCTION AREA. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. DAMAGED UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
10. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR.
11. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES.
12. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
13. THE SUB GRADE SHALL BE COMPACTED 98% AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
14. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE GRADING.
15. PERMITS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, SIGNS, POSTINGS, ETC.
16. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES AND SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
17. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE UPON COMPLETION. CONTRACTOR SHALL LEAVE SITE IN A CLEAN CONDITION.
18. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, HARDWARE, LABOR AND SERVICES REQUIRED FOR THE INSTALLATION OF COMPLETE AND PROPERLY WORKING INSTALLATIONS AS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN
19. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. EQUIPMENT REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
20. CONTRACTOR SHALL HAVE A PRECONSTRUCTION MEETING WITH OWNER TO DISCUSS ALL ASPECTS OF THE CONSTRUCTION SCOPE OF THIS DRAWING TO ENSURE HE IS FAMILIAR AND UNDERSTANDS ALL REQUIREMENTS AND INTENT OF EACH ACTIVITY.
21. THE FOLLOWING ITEMS SHALL BE PROVIDED BY OWNER BUT INSTALLED BY THE CONTRACTOR:
  - A) GENERATOR
  - B) AUTOMATIC TRANSFER SWITCH (AS INDICATED ON DRAWINGS)

**CONCRETE AND REINFORCING STEEL NOTES:**

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNLESS NOTED OTHERWISE.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
  - CONCRETE CAST AGAINST EARTH.....3 IN.
  - CONCRETE EXPOSED TO EARTH OR WEATHER:
    - #6 AND LARGER.....3 IN.
    - #5 AND SMALLER & WWF.....3 IN.
  - CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
    - SLAB AND WALL.....1-1/2 IN.
    - BEAMS AND COLUMNS.....1-1/2 IN.
5. A CHAMFER OF 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. 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 DAMAGED WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE.

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SITE # 68275

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SHEET TITLE  
**NOTES**

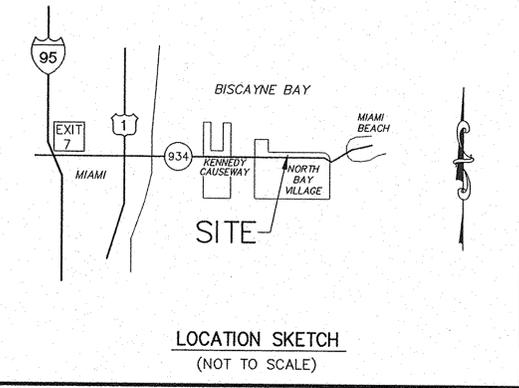
SHEET NUMBER  
**02**

**SYMBOLS**

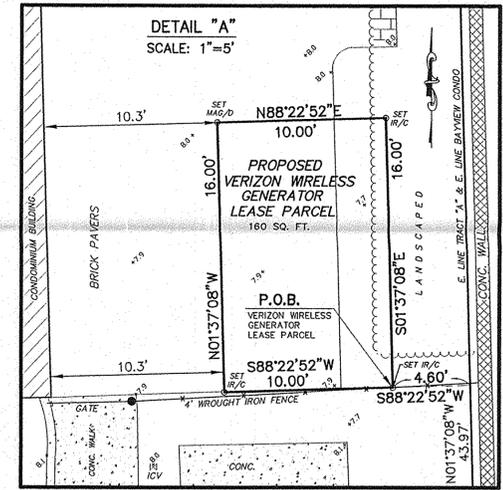
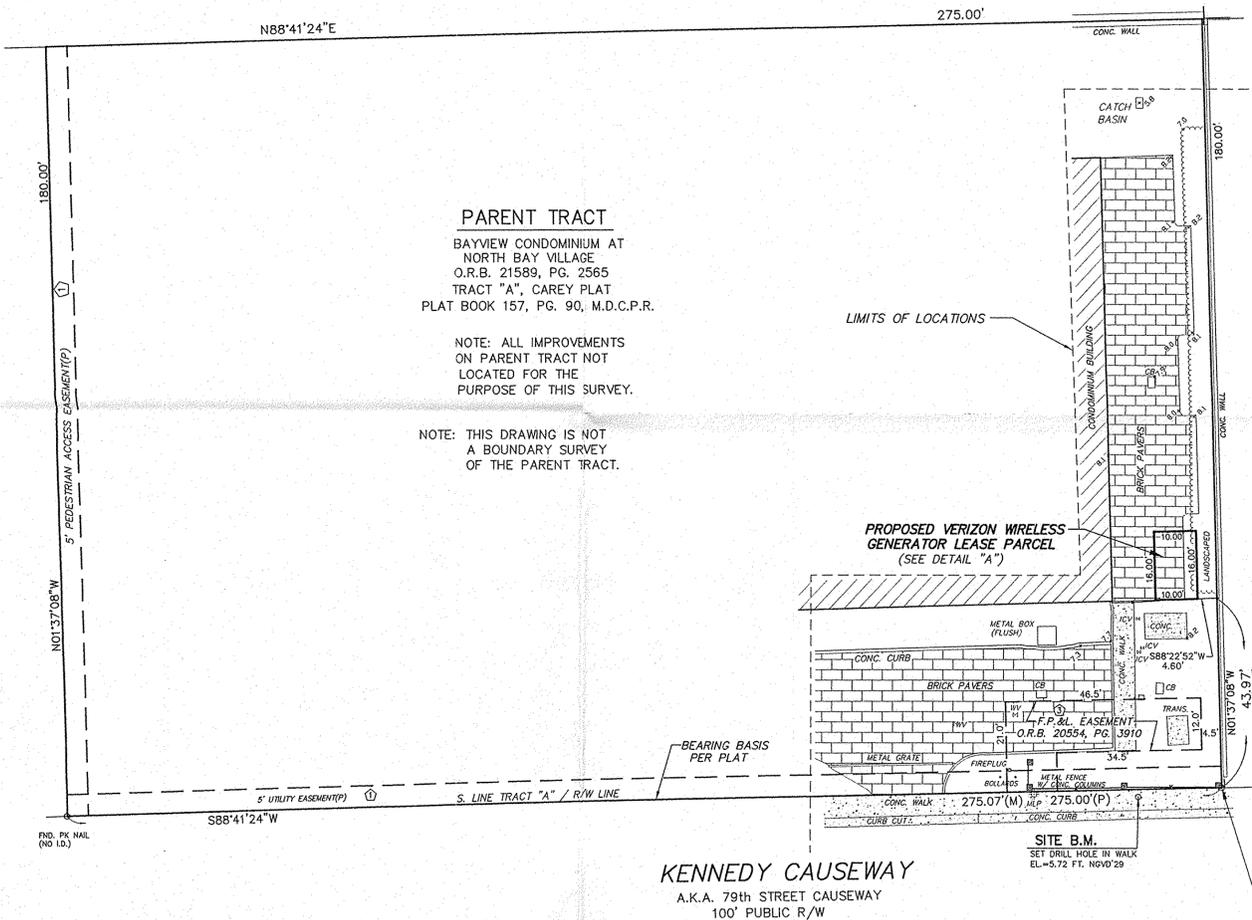
- ICV → = IRRIGATION CONTROL VALVE
- MLP ⊕ = METAL LIGHT POLE
- CB □ = CATCH BASIN
- = CONCRETE

**LEGEND**

- ① = O&E SEARCH ITEM #
- M.D.C.P.R. = MIAMI-DADE COUNTY PUBLIC RECORDS
- P.O.C. = POINT OF COMMENCEMENT
- P.O.B. = POINT OF BEGINNING
- O.R.B. = OFFICIAL RECORDS BOOK
- NGVD '29 = NATIONAL GEODETIC VERTICAL DATUM OF 1929
- B.M. = ELEVATION BENCHMARK
- SET IR/C = SET 5/8" DIAMETER IRON ROD W/CAP STAMPED "WBZ-LB 6840"
- SET MAG/D = SET MAGNETIC NAIL WITH BRASS DISK STAMPED "WBZ LB 6840"
- △ = EXISTING SPOT ELEVATION
- IR/C = IRON ROD WITH CAP
- I.P. = IRON PIPE, NO I.D.
- I.R. = IRON ROD, NO I.D.
- TRANS. = TRANSFORMER
- R/W = RIGHT OF WAY
- I.D. = IDENTIFICATION
- (M) = MEASURED
- (P) = PLAT
- (C) = CALCULATED
- FND. = FOUND
- EL. = ELEVATION



BISCAYNE BAY



**DESCRIPTION OF PROPOSED GENERATOR LEASE PARCEL**

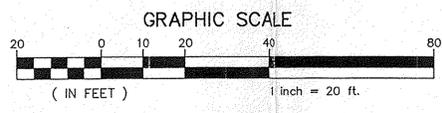
A parcel of land lying within lands of BAYVIEW CONDOMINIUM AT NORTH BAY VILLAGE, as recorded in Official Records Book 21589, Page 2565, of the Public Records of Miami-Dade County, Florida, said condominium property being all of Tract "A", CAREY PLAT, according to the plat thereof, as recorded in Plat Book 157, Page 90, of the Public Records of Miami-Dade County, Florida, said parcel more particularly described as follows:

Commencing at the Southeast corner of said Tract "A", proceed North 01° 37' 08" West along the East line thereof a distance of 43.97 feet; thence South 88° 22' 52" West a distance of 4.60 feet to the POINT OF BEGINNING; thence continue South 88° 22' 52" West a distance of 10.00 feet; thence North 01° 37' 08" West a distance of 16.00 feet; thence North 88° 22' 52" East a distance of 10.00 feet; thence South 01° 37' 08" East a distance of 16.00 feet to the POINT OF BEGINNING.

Containing an area of 160 square feet.

**Notes:**

1. This survey was performed for the purpose of mapping the area shown to support placement of the proposed Verizon Wireless Lease Parcel shown and described hereon.
2. Reproductions of this drawing are not valid unless it bears the signature and original raised seal of a Florida licensed Surveyor & Mapper.
3. Description shown hereon originated by this surveyor per client layout.
4. Boundary Survey is limited to proposed Verizon Wireless Lease Parcel.
5. Prepared with reference to Ownership & Encumbrance Search 36566 by Chicago Title Insurance Company, with an effective date of September 9, 2013. This survey reflects and is limited to plottable easements contained within that search. The surveyor has relied solely upon that search and the record plat with respect to the plottable easements of record.
6. Elevations shown hereon are in feet, referenced to NGVD'29, based on NGS Benchmark P 313 1970, having a published elevation of 5.25 feet NGVD '29.
7. Verizon Wireless lease parcel lies in Flood Zone "AE" (el. 8) per Flood Insurance Rate Map no. 12086C0307 L, dated September 11, 2009. Base flood elevations shown on Flood Insurance Rate Map are referenced to NGVD'29 vertical datum.

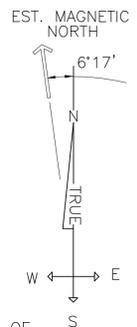
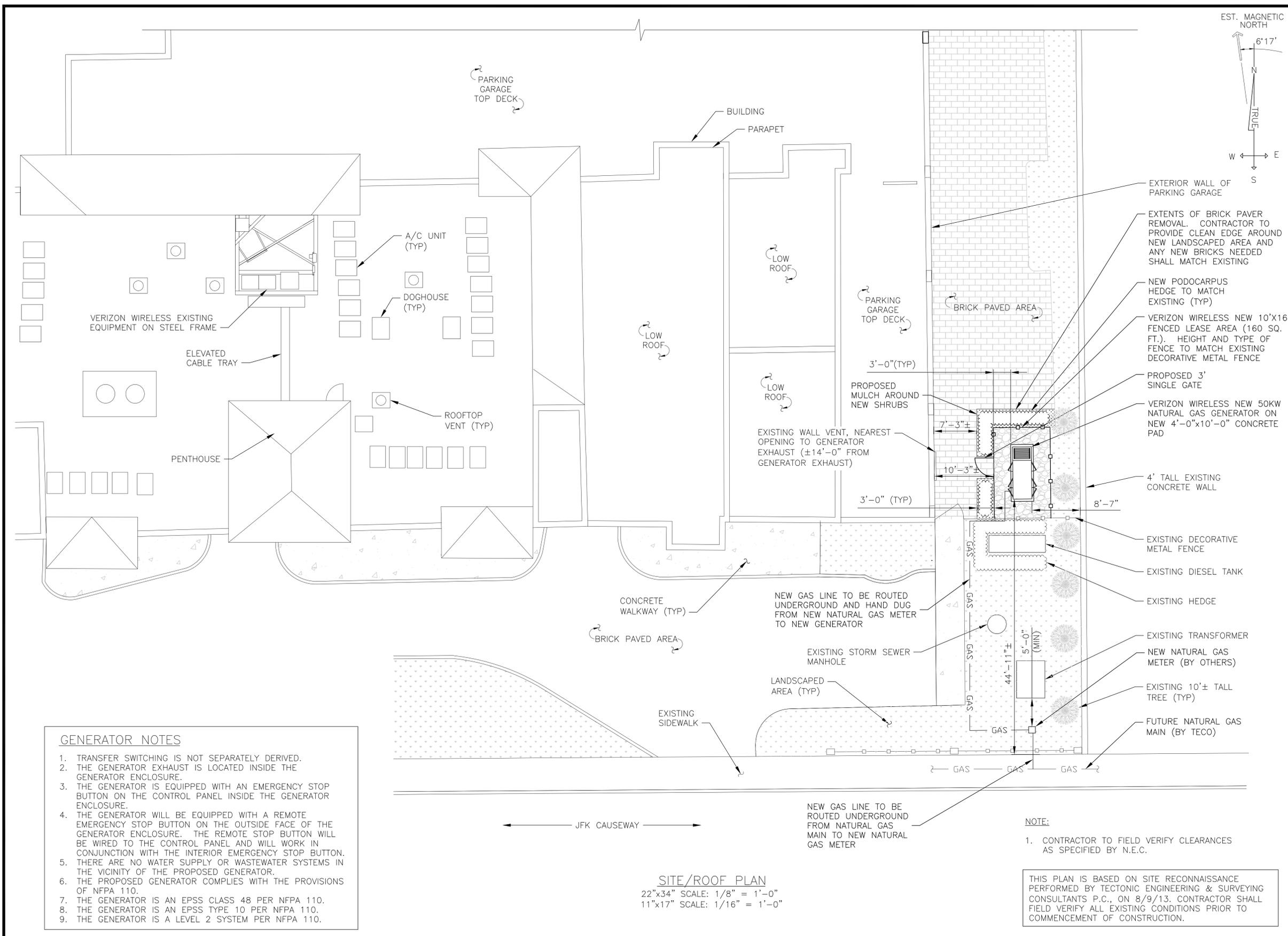


**SURVEYORS SIGNATURE & SEAL**  
 NOTE: THIS SURVEY CERTIFIED AS TO THE DATE OF THE LAST FIELD SURVEY (INCLUDING REVISION BLOCK), NOT THE SIGNATURE DATE.  
 WILLIAM B. ZENTZ, PLS.  
 REGISTERED LAND SURVEYOR No. 3178  
 STATE OF FLORIDA  
 DATE: 3/18/14

**William B. Zentz & Associates, Inc.**  
**Professional Surveying & Mapping**  
 CERTIFICATE OF AUTHORIZATION (LB) No. 6840  
 684 Old Dixie Highway  
 Vero Beach, FL 32962  
 Phone: (772) 567-7552  
 Fax: (772) 567-1751

DATE	REVISION

Map Of Survey  
**Boundary Survey for Verizon Wireless # 68275 - Bayview Terrace**  
**1625 Kennedy Causeway, North Bay Village Miami-Dade County, Florida**  
 DRAWN BY: W.B.Z.  
 FIELD BOOK / PAGE: VER 11/71  
 FIELD SURVEY DATE: 9/18/13  
 Job No.: 114-194  
 SHEET OF: 1 1



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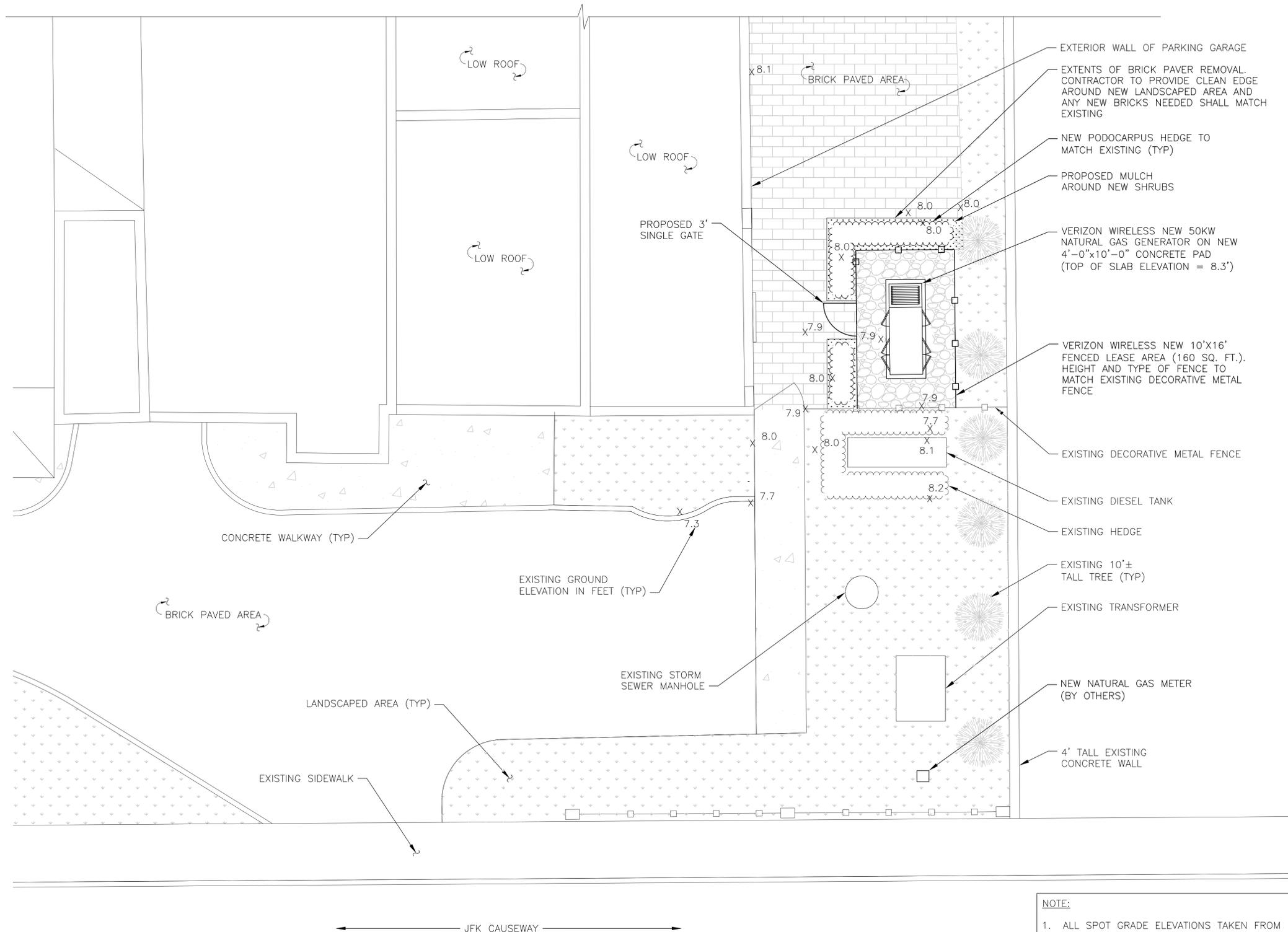
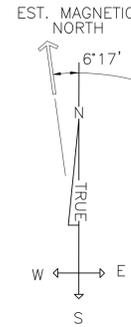
SHEET TITLE  
**SITE PLAN**  
 SHEET NUMBER  
**03A**

- GENERATOR NOTES**
- TRANSFER SWITCHING IS NOT SEPARATELY DERIVED.
  - THE GENERATOR EXHAUST IS LOCATED INSIDE THE GENERATOR ENCLOSURE.
  - THE GENERATOR IS EQUIPPED WITH AN EMERGENCY STOP BUTTON ON THE CONTROL PANEL INSIDE THE GENERATOR ENCLOSURE.
  - THE GENERATOR WILL BE EQUIPPED WITH A REMOTE EMERGENCY STOP BUTTON ON THE OUTSIDE FACE OF THE GENERATOR ENCLOSURE. THE REMOTE STOP BUTTON WILL BE WIRED TO THE CONTROL PANEL AND WILL WORK IN CONJUNCTION WITH THE INTERIOR EMERGENCY STOP BUTTON.
  - THERE ARE NO WATER SUPPLY OR WASTEWATER SYSTEMS IN THE VICINITY OF THE PROPOSED GENERATOR.
  - THE PROPOSED GENERATOR COMPLIES WITH THE PROVISIONS OF NFPA 110.
  - THE GENERATOR IS AN EPSS CLASS 48 PER NFPA 110.
  - THE GENERATOR IS AN EPSS TYPE 10 PER NFPA 110.
  - THE GENERATOR IS A LEVEL 2 SYSTEM PER NFPA 110.

**SITE/ROOF PLAN**  
 22"x34" SCALE: 1/8" = 1'-0"  
 11"x17" SCALE: 1/16" = 1'-0"

**NOTE:**  
 1. CONTRACTOR TO FIELD VERIFY CLEARANCES AS SPECIFIED BY N.E.C.

THIS PLAN IS BASED ON SITE RECONNAISSANCE PERFORMED BY TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C., ON 8/9/13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.



**NOTE:**  
1. CONTRACTOR TO FIELD VERIFY CLEARANCES AS SPECIFIED BY N.E.C.

**GROUND ELEVATION PLAN**  
22"x34" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"

**NOTE:**  
1. ALL SPOT GRADE ELEVATIONS TAKEN FROM BOUNDARY SURVEY COMPLETED BY WILLIAM B. ZENTZ & ASSOCIATES, INC., DATED 9/18/13.

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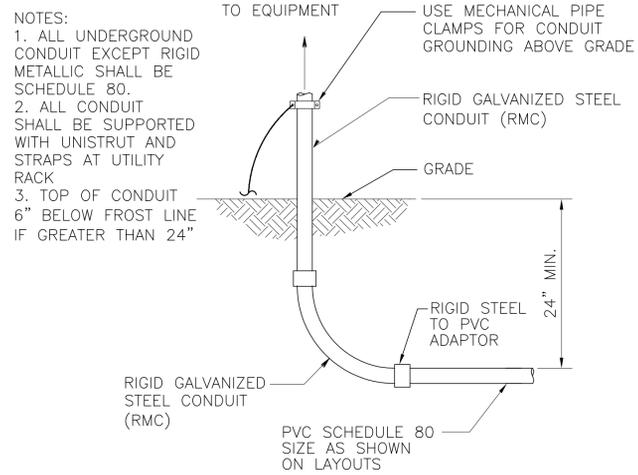
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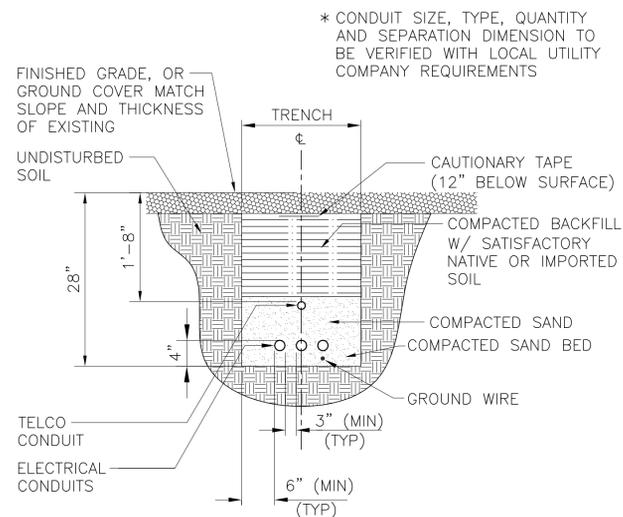
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SHEET TITLE  
**GROUND ELEVATION PLAN**

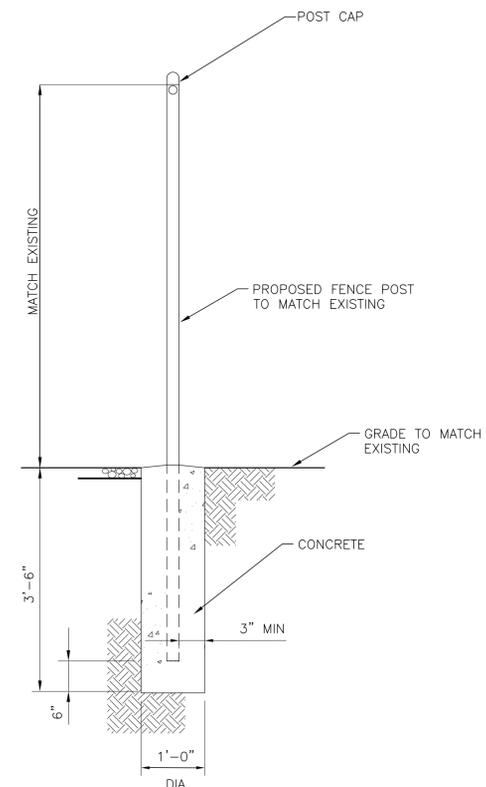
SHEET NUMBER  
**03B**



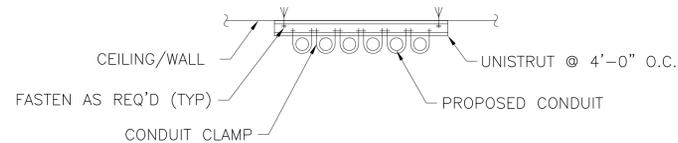
UNDERGROUND CONDUIT STUB-UP  
 NTS



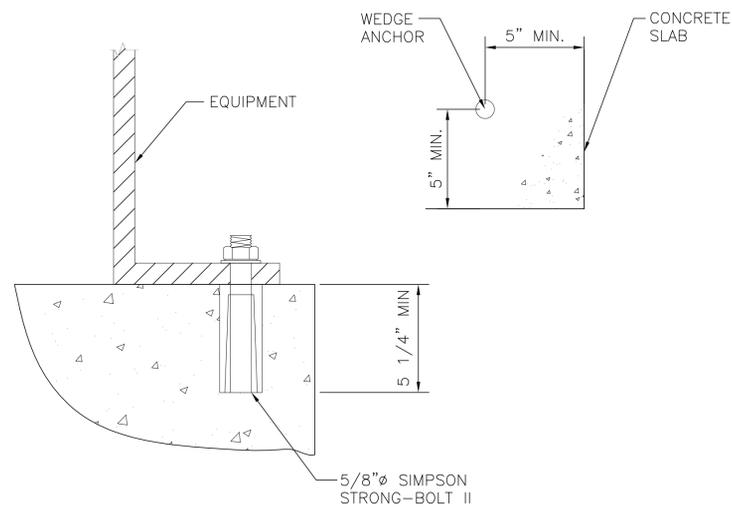
DIRECT BURIED CONDUIT  
 NTS



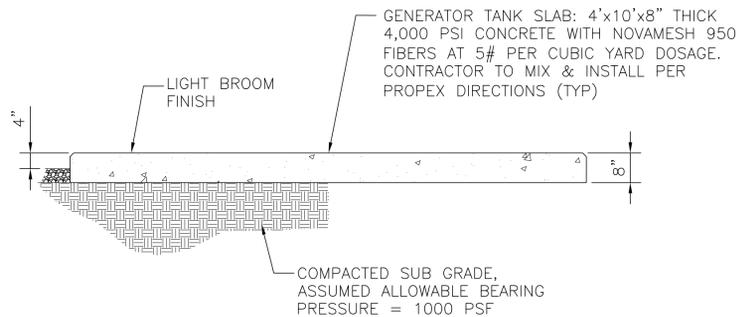
FENCE POST DETAIL  
 NOT TO SCALE



CONDUIT ON CEILING/WALL  
 NOT TO SCALE

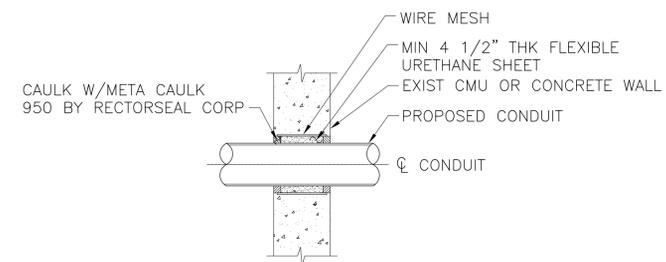


GENERATOR ANCHOR BOLT DETAIL  
 NOT TO SCALE



NOTES:  
 1. ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH OF 4,000 PSI.

GENERATOR SLAB  
 NOT TO SCALE



NOTE:  
 CONDUIT ANCHORAGE IS REQUIRED NEARBY TO PREVENT CONDUIT MOVEMENT THRU PENETRATION.

("UL NO. W-J-1013")  
 THRU CMU WALL (MIN 5" CONC WALL SIMILAR)

TYP CONDUIT PENETRATION DETAIL  
 NOT TO SCALE

**VERIZON WIRELESS**

777 YAMATO ROAD  
 SUITE 600  
 BOCA RATON, FL 33431

APPROVALS

CARRIER \_\_\_\_\_  
 LANDLORD \_\_\_\_\_  
 LEASING \_\_\_\_\_  
 CONSTRUCTION \_\_\_\_\_

PROJECT NO: 6499.070

DRAWN BY: TJH

CHECKED BY: SMM

APPROVED BY: SMM

REV	DATE	DESCRIPTION
4	3/19/14	FOR CONSTRUCTION
3	3/19/14	PER MUNI COMMENTS
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0	9/12/13	ISSUED FOR REVIEW

PROFESSIONAL ENGINEER



STEVEN M. MATTHEWS PE # 73683  
 TECTONIC ENGINEERING C.A. # 8540  
 (NOT VALID WITHOUT SIGNATURE & SEAL)

**TECTONIC**

TECTONIC ENGINEERING &  
 SURVEYING CONSULTANTS P.C.  
 36 BRITISH AMERICAN BLVD, SUITE 101  
 LATHAM, NY 12110  
 PHONE: 518.783.1630 FAX: 518.783.1544

**BAYVIEW  
 TERRACE**  
 SITE # 68275

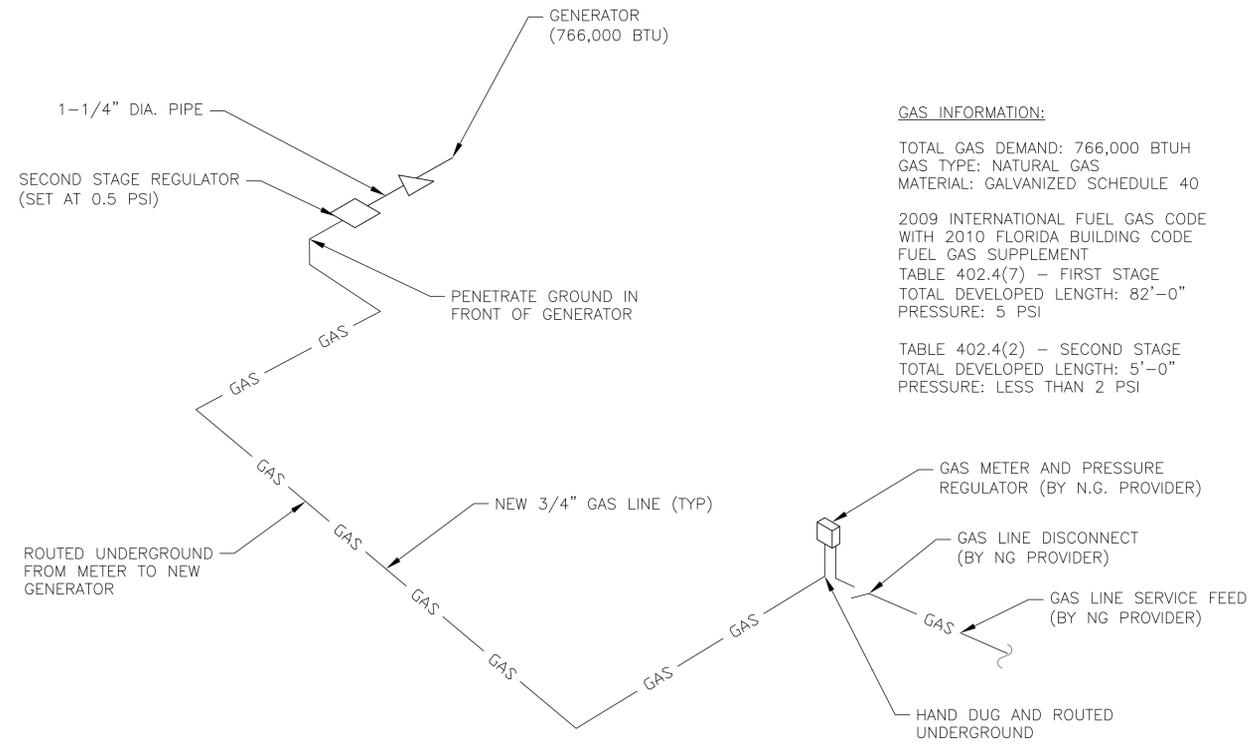
SITE ADDRESS  
 1625 JFK CAUSEWAY  
 NORTH BAY VILLAGE, FL  
 33141

SHEET TITLE

DETAILS

SHEET NUMBER

04A

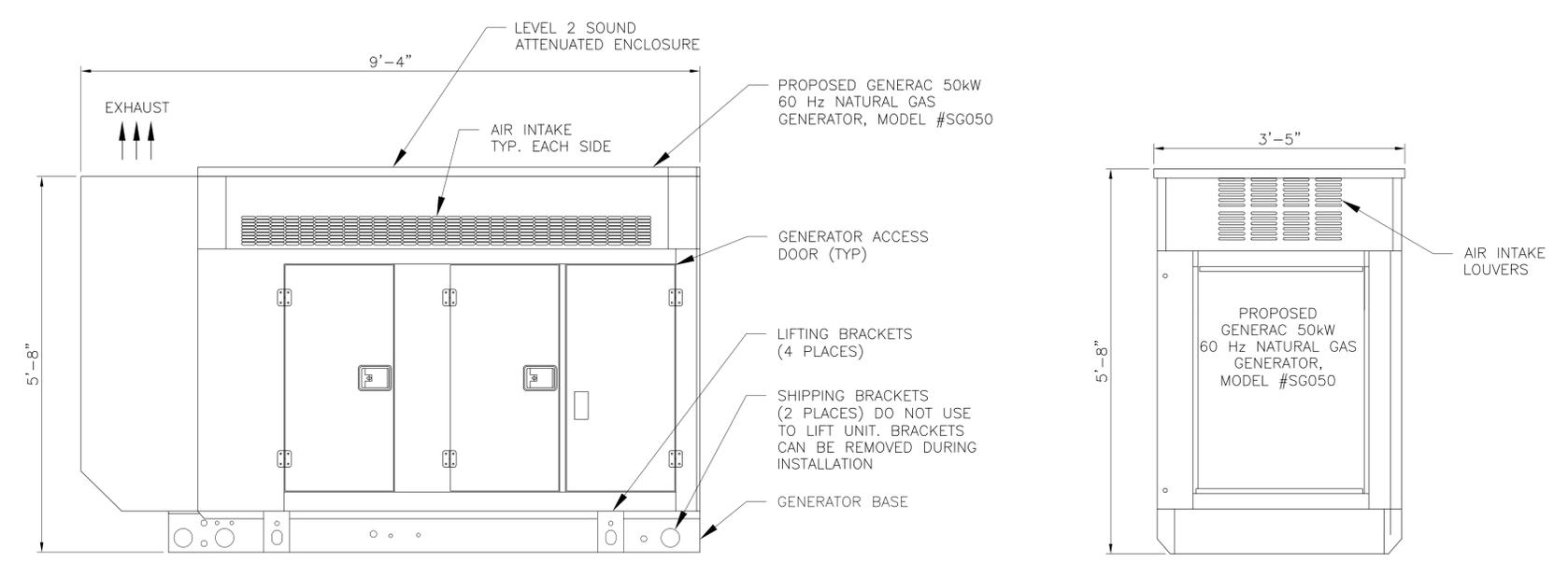


**GAS INFORMATION:**  
 TOTAL GAS DEMAND: 766,000 BTUH  
 GAS TYPE: NATURAL GAS  
 MATERIAL: GALVANIZED SCHEDULE 40

2009 INTERNATIONAL FUEL GAS CODE WITH 2010 FLORIDA BUILDING CODE FUEL GAS SUPPLEMENT  
 TABLE 402.4(7) - FIRST STAGE  
 TOTAL DEVELOPED LENGTH: 82'-0"  
 PRESSURE: 5 PSI

TABLE 402.4(2) - SECOND STAGE  
 TOTAL DEVELOPED LENGTH: 5'-0"  
 PRESSURE: LESS THAN 2 PSI

**GAS RISER DIAGRAM**  
 NOT TO SCALE



**GENERATOR ELEVATION**  
 NOT TO SCALE

**VERIZON WIRELESS**  
 777 YAMATO ROAD  
 SUITE 600  
 BOCA RATON, FL 33431

**APPROVALS**  
 CARRIER \_\_\_\_\_  
 LANDLORD \_\_\_\_\_  
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**BAYVIEW TERRACE**  
 SITE # 68275

SITE ADDRESS  
 1625 JFK CAUSEWAY  
 NORTH BAY VILLAGE, FL 33141

SHEET TITLE  
**DETAILS**

SHEET NUMBER  
**04B**

ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
3. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
4. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
5. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
6. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
7. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
8. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
9. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE USE-2 CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT RHW-2 OR XHHW-2, STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 90°C.
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR RIGID METALLIC CONDUIT (RMC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. RIGID NON-METALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR IN AREAS OF HEAVY VEHICLE TRAFFIC, GALVANIZED RIGID CONDUIT SHALL BE USED.
18. ALL OUTDOOR EXPOSED CONDUIT SHALL BE RMC AND SHALL BE SUPPORTED ADEQUATELY.
19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED. LFMC SHALL CONFORM TO NEC ARTICLE 350.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NON-METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.

ELECTRICAL INSTALLATION NOTES, (cont.)

27. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
28. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
29. ALL SAFETY SWITCHES SHALL BE NEMA 1 FOR INDOOR, NEMA 3R FOR OUTDOOR, UL LISTED 200K SCCR RATED, REJECTION TYPE, WITH RK1 FUSES. FUSES SHALL HAVE AN AIR OF 200K AND SHALL HAVE A LIMITING RATING AS SHOWN IN THESE DRAWINGS. EQUIPMENT AND ACCESSORIES SHALL BE RATED FOR 75 DEGREES CELSIUS OR HIGHER.
30. ALL LOAD CENTERS SHALL BE 42 SPACE UNLESS NOTED OTHERWISE, NEMA 1 FOR INDOOR, NEMA 3R FOR OUTDOOR, MCB WITH CONVERTIBLE MAINS, UL LISTED 22K IA OR HIGHER SCCR, WITH 22K AIR BREAKERS. BREAKERS AND LOAD CENTER SHALL BE RATED FOR 75 DEGREES CELSIUS OR HIGHER. BREAKERS SHALL HAVE A LIMITING RATING AS SPECIFIED ON THESE DRAWINGS.
31. PRIOR TO PURCHASING EQUIPMENT, CONTRACTOR SHALL CONTACT THE LOCAL UTILITY & OBTAIN IN WRITING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE UTILITY SERVICE POINT. THE CONTRACTOR SHALL ENSURE ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, DISCONNECTS, FUSES, AND PANELBOARDS HAVE A FAULT CURRENT INTERRUPTING RATING GREATER THAN THE AVAILABLE FAULT CURRENT. IN NO CASE SHALL THE FAULT CURRENT INTERRUPTING RATING BE LESS THAN 22,000 AMPS.
32. CONTRACTOR SHALL LABEL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC 110.16 AND 110.24.
33. CONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY AT SERVICE ENTRANCE.
34. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATIONS.
35. WHERE ELECTRICAL POWER IS TO BE SUB-FED FROM AN EXISTING DISTRIBUTION SYSTEM, THE FOLLOWING SHALL APPLY:
  - A) CONTRACTOR SHALL PERFORM LOAD TESTING TO DETERMINE MAXIMUM FEEDER DEMAND PER N.E.C. ARTICLE 220.
  - B) CONTRACTOR SHALL VERIFY WHETHER EXISTING FEEDER CAPACITY EXCEEDS VALUE CALCULATED PER N.E.C. ARTICLE 220.
  - C) EACH BRANCH CIRCUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING RATING AS EQUIPMENT SUPPLYING IT.
  - D) PREFERRED MEANS OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE DEVICE LOCATED IN EXISTING PANEL.
36. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.

GROUNDING NOTES

1. ALL GROUNDING CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELDING PROCESS (CAD WELD OR EQUAL) EXCEPT FOR EQUIPMENT THAT MAY BE MECHANICALLY FASTENED. ALL LUGS SHALL BE TWO HOLE, LONG BARREL TYPE, FOR COPPER, UNLESS OTHERWISE NOTED.
2. ALL GROUND RODS SHALL BE A MINIMUM OF 10 FEET LONG, COPPER CLAD STEEL (302 OR 304), 5/8 DIAMETER, DRIVEN VERTICALLY DOWN WITH TOPS 30" BELOW GRADE. UNDERGROUND GROUNDING CONDUCTORS SHALL BE 30" BELOW GRADE.
3. ALL GROUND CONDUCTORS SHALL BE MIN. #2 AWG SOLID BARE TINNED COPPER WIRE. EQUIPMENT GROUND CONDUCTORS SHALL BE MIN. #6 GREEN INSULATED, UNLESS OTHERWISE NOTED.
4. GROUND RODS FOR GROUND RING SHALL BE LOCATED 10-16 FEET APART.
5. ANY METAL OBJECT WITHIN 6 FEET OF THE TOWER OR EQUIPMENT GROUND RING SHALL BE BONDED DIRECTLY TO THE RING.
6. THE MINIMUM BENDING RADIUS FOR ALL GROUNDING CONDUCTORS #6 AWG OR LARGER SHALL BE 24".
7. ALL ABOVE GRADE GROUND CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD EARTH AND HORIZONTAL ONLY WHERE NECESSARY.
8. ALL CONDUCTORS SHALL BE ROUTED SUCH THAT THERE ARE NO INCLUSIVE ANGLES OF LESS THAN 90 DEGREES.
9. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
10. ALL GROUNDING SHALL COMPLY WITH THE N.E.C. AND NFPA 780, "LIGHTNING PROTECTION CODE".
11. ALL GROUNDING COMPONENTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
12. ANY METAL CONDUIT MOUNTED ON THE TOWER SHALL BE BONDED TO THE TOWER AT EACH END.
13. ALL EXPOSED GROUNDING SHALL BE IN NON-METALLIC FLEX CONDUIT AND SECURED AS NECESSARY.
14. WHEN BONDING TO EQUIPMENT, REMOVE PAINT TO BARE STEEL AND PROTECT WITH A COATING OF NO-OX.
15. APPROVED ANTIOXIDANT COATINGS SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. BOND ICE BRIDGE SECTIONS TOGETHER EXOTHERMICALLY OR WITH 2 HOLE LUGS. BOND ICE BRIDGE TO SUPPORT POSTS.
17. THESE NOTES ARE NOT ALL-ENCOMPASSING. REFER TO VERIZON NETWORK STANDARDS NSTD 46 FOR COMPLETE GROUNDING GUIDELINES

**VERIZON WIRELESS**

777 YAMATO ROAD  
SUITE 600  
BOCA RATON, FL 33431

**APPROVALS**

CARRIER \_\_\_\_\_  
LANDLORD \_\_\_\_\_  
LEASING \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_

PROJECT NO: 6499.070

DRAWN BY: TJH

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APPROVED BY: SMM

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**PROFESSIONAL ENGINEER**



STEVEN M. MATTHEWS PE # 73683  
TECTONIC ENGINEERING C.A. # 8540  
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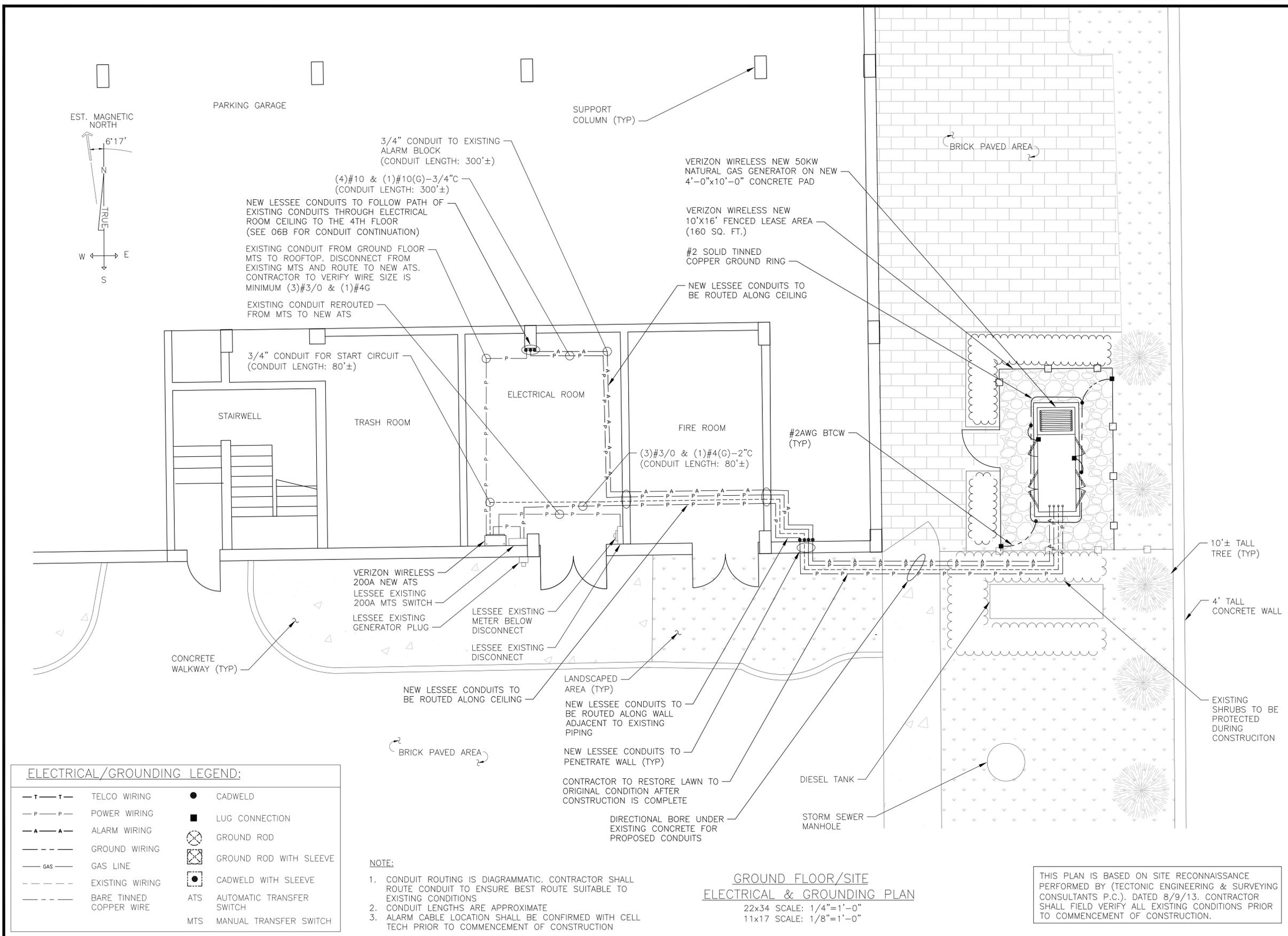
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36 BRITISH AMERICAN BLVD, SUITE 101  
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PHONE: 518.783.1630 FAX: 518.783.1544

**BAYVIEW TERRACE**  
SITE # 68275

SITE ADDRESS  
1625 JFK CAUSEWAY  
NORTH BAY VILLAGE, FL  
33141

SHEET TITLE  
**ELECTRICAL NOTES**

SHEET NUMBER  
**05**



**ELECTRICAL/GROUNDING LEGEND:**

— T — T —	TELCO WIRING	●	CADWELD
— P — P —	POWER WIRING	■	LUG CONNECTION
— A — A —	ALARM WIRING	⊗	GROUND ROD
— — — —	GROUND WIRING	⊗	GROUND ROD WITH SLEEVE
— GAS —	GAS LINE	●	CADWELD WITH SLEEVE
— — — —	EXISTING WIRING	●	ATS
— — — —	BARE TINNED COPPER WIRE	●	MTS
			AUTOMATIC TRANSFER SWITCH
			MANUAL TRANSFER SWITCH

- NOTE:**
- CONDUIT ROUTING IS DIAGRAMMATIC. CONTRACTOR SHALL ROUTE CONDUIT TO ENSURE BEST ROUTE SUITABLE TO EXISTING CONDITIONS.
  - CONDUIT LENGTHS ARE APPROXIMATE.
  - ALARM CABLE LOCATION SHALL BE CONFIRMED WITH CELL TECH PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**GROUND FLOOR/SITE  
ELECTRICAL & GROUNDING PLAN**  
22x34 SCALE: 1/4"=1'-0"  
11x17 SCALE: 1/8"=1'-0"

THIS PLAN IS BASED ON SITE RECONNAISSANCE PERFORMED BY (TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.), DATED 8/9/13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**VERIZON WIRELESS**

777 YAMATO ROAD  
SUITE 600  
BOCA RATON, FL 33431

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APPROVALS

CARRIER \_\_\_\_\_

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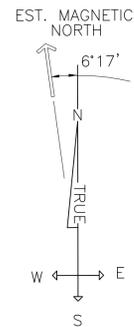
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---

SHEET TITLE  
**ELECTRICAL & GROUNDING PLAN**

---

SHEET NUMBER  
**06A**



SUPPORT COLUMN (TYP)

FOURTH FLOOR  
PARKING GARAGE

NEW LESSEE CONDUITS TO FOLLOW PATH OF  
EXISTING CONDUITS THROUGH STACKED  
ELECTRICAL ROOMS TO ROOFTOP  
(SEE 06C FOR CONDUIT CONTINUATION)

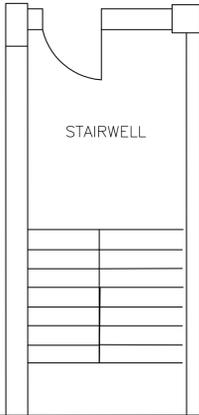
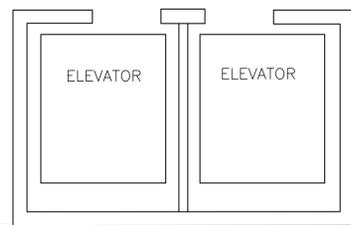
(4)#10 & (1)#10(G)-3/4"C  
(CONDUIT LENGTH: 300'±)

3/4" CONDUIT TO EXISTING  
ALARM BLOCK  
(CONDUIT LENGTH: 300'±)

NEW LESSEE CONDUITS TO  
BE ROUTED ALONG CEILING

NEW LESSEE CONDUITS TO FOLLOW PATH OF  
EXISTING CONDUITS THROUGH ELECTRICAL  
ROOM CEILING TO THE 4TH FLOOR  
(SEE 06A FOR CONDUIT CONTINUATION)

EXISTING CONDUIT FROM GROUND FLOOR  
MTS TO ROOFTOP. DISCONNECT FROM  
EXISTING MTS AND ROUTE TO NEW ATS.  
CONTRACTOR TO VERIFY WIRE SIZE IS  
MINIMUM (3)#3/0 & (1)#4G



ELECTRICAL/GROUNDING LEGEND:			
— T — T —	TELCO WIRING	●	CADWELD
— P — P —	POWER WIRING	■	LUG CONNECTION
— A — A —	ALARM WIRING	⊗	GROUND ROD
— — — —	GROUND WIRING	⊗	GROUND ROD WITH SLEEVE
— GAS —	GAS LINE	●	CADWELD WITH SLEEVE
- - - - -	EXISTING WIRING	○	ATS AUTOMATIC TRANSFER SWITCH
— — — —	BARE TINNED COPPER WIRE	○	MTS MANUAL TRANSFER SWITCH

**NOTE:**

1. CONDUIT ROUTING IS DIAGRAMMATIC. CONTRACTOR SHALL ROUTE CONDUIT TO ENSURE BEST ROUTE SUITABLE TO EXISTING CONDITIONS
2. CONDUIT LENGTHS ARE APPROXIMATE
3. ALARM CABLE LOCATION SHALL BE CONFIRMED WITH CELL TECH PRIOR TO COMMENCEMENT OF CONSTRUCTION

FOURTH FLOOR  
ELECTRICAL & GROUNDING PLAN  
22x34 SCALE: 1/4"=1'-0"  
11x17 SCALE: 1/8"=1'-0"

THIS PLAN IS BASED ON SITE RECONNAISSANCE PERFORMED BY (TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.), DATED 8/9/13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**VERIZON WIRELESS**

777 YAMATO ROAD  
SUITE 600  
BOCA RATON, FL 33431

**APPROVALS**

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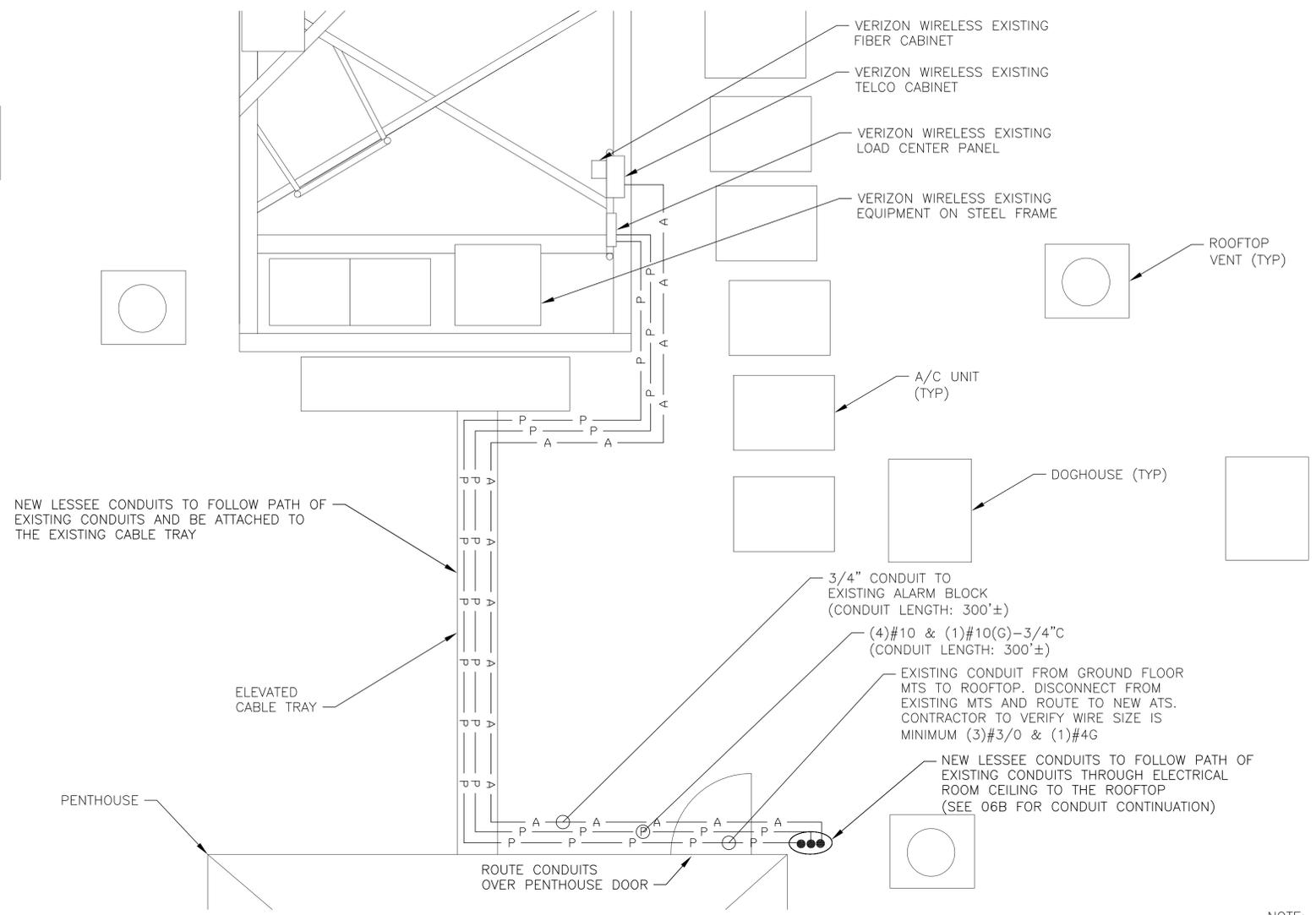
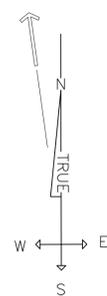
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33141

SHEET TITLE  
ELECTRICAL &  
GROUNDING PLAN

SHEET NUMBER  
06B

**ELECTRICAL/GROUNDING LEGEND:**

— T — T —	TELCO WIRING	●	CADWELD
— P — P —	POWER WIRING	■	LUG CONNECTION
— A — A —	ALARM WIRING	⊗	GROUND ROD
— — — —	GROUND WIRING	⊗	GROUND ROD WITH SLEEVE
— GAS —	GAS LINE	⊗	CADWELD WITH SLEEVE
— — — —	EXISTING WIRING	⊗	ATS AUTOMATIC TRANSFER SWITCH
— — — —	BARE TINNED COPPER WIRE	⊗	MTS MANUAL TRANSFER SWITCH



**ELECTRICAL & GROUNDING PLAN**  
 22x34 SCALE: 3/8"=1'-0"  
 11x17 SCALE: 3/16"=1'-0"

- NOTE:**
1. CONDUIT ROUTING IS DIAGRAMMATIC. CONTRACTOR SHALL ROUTE CONDUIT TO ENSURE BEST ROUTE SUITABLE TO EXISTING CONDITIONS
  2. CONDUIT LENGTHS ARE APPROXIMATE
  3. ALARM CABLE LOCATION SHALL BE CONFIRMED WITH CELL TECH PRIOR TO COMMENCEMENT OF CONSTRUCTION

THIS PLAN IS BASED ON SITE RECONNAISSANCE PERFORMED BY (TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.), DATED 8/9/13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**VERIZON WIRELESS**

777 YAMATO ROAD  
 SUITE 600  
 BOCA RATON, FL 33431

**APPROVALS**

CARRIER \_\_\_\_\_

LANDLORD \_\_\_\_\_

LEASING \_\_\_\_\_

CONSTRUCTION \_\_\_\_\_

PROJECT NO: 6499.070

DRAWN BY: TJH

CHECKED BY: SMM

APPROVED BY: SMM

REV	DATE	DESCRIPTION
4	3/19/14	FOR CONSTRUCTION
3	3/19/14	PER MUNI COMMENTS
2	10/29/13	PER MUNI COMMENTS
1	9/27/13	FOR CONSTRUCTION
0	9/12/13	ISSUED FOR REVIEW

**PROFESSIONAL ENGINEER**



STEVEN M. MATTHEWS PE # 73683  
 TECTONIC ENGINEERING C.A. # 8540  
 (NOT VALID WITHOUT SIGNATURE & SEAL)

**TECTONIC**

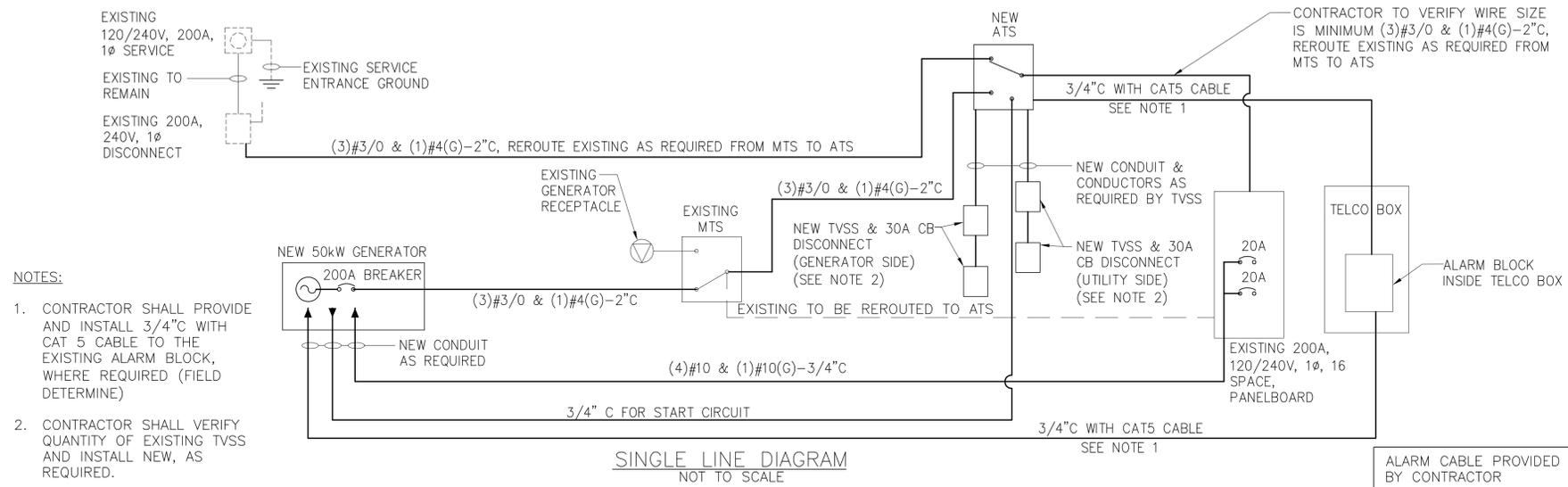
TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.  
 36 BRITISH AMERICAN BLVD, SUITE 101  
 LATHAM, NY 12110  
 PHONE: 518.783.1630 FAX: 518.783.1544

**BAYVIEW TERRACE**  
 SITE # 68275

SITE ADDRESS  
 1625 JFK CAUSEWAY  
 NORTH BAY VILLAGE, FL 33141

SHEET TITLE  
**ELECTRICAL & GROUNDING PLAN**

SHEET NUMBER  
**06C**



PANEL NAME: LOCATION:	VERIZON WIRELESS AC PANEL	PANEL RATING		200 AMPS 120/240 VOLTS						PHASE 1 WIRE 3		X MCB MAIN LUG ONLY		RATING 200 AMP	
		KVA	AMP	WIRE	GND	COND	COND	GND	WIRE	AMP	KVA	DESCRIPTION	CKT NO.		
CKT NO.	DESCRIPTION	A	B	POLE						POLE	A	B			
1	SURGE SUPPRESSOR	3	-	20/2	-	-	-	-	-	80/2	7.5	-	MODCELL	2	
3		-	3								-	7.5		4	
5	GFCI	1	-	20/1	-	-	-	-	-	80/2	7.5	-	BTS1	6	
7	SPARE	-	-	80/2	-	-	-	-	-	-	-	7.5	BATTERY	8	
9		-	-		-	-	-	-	-	20/1	1	-		10	
11	SPACE	-	-							20/1	-	1	A/C	12	
13	SPACE	-	-							12	12	20/1	1	GEN BLOCK HEATER	14
15	SPACE	-	-					3/4"		12	12	20/1	-	GEN BATTERY CHARGER	16
SUB TOTAL KVA (CONT)		0	0									15.0	15.0	SUB TOTAL KVA (CONT)	
SUB TOTAL KVA (NON-CONT)		4.0	3.0									2	2	SUB TOTAL KVA (NON-CONT)	
TOTAL KVA NON-CONT + 125% CONT.				24.75								103.0		TOTAL AMPS	

\* PRE WIRED AT FACTORY

PANEL SCHEDULE  
NOT TO SCALE

VERIZON WIRELESS

777 YAMATO ROAD  
SUITE 600  
BOCA RATON, FL 33431

APPROVALS

CARRIER \_\_\_\_\_  
LANDLORD \_\_\_\_\_  
LEASING \_\_\_\_\_  
CONSTRUCTION \_\_\_\_\_

PROJECT NO: 6499.070

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BAYVIEW  
TERRACE  
SITE # 68275

SITE ADDRESS  
1625 JFK CAUSEWAY  
NORTH BAY VILLAGE, FL  
33141

SHEET TITLE  
SINGLE LINE DIAGRAM  
AND PANEL SCHEDULE

SHEET NUMBER

06D