

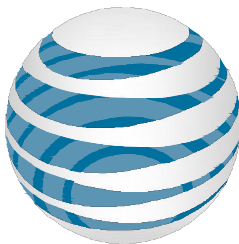
6/20/24 10:46:00 AM C:\Users\maser\OneDrive\Documents\13017921 - MA 0251 CD\Rev 21.dwg T-1
By: PROJAS

PROJECT NOTES

- SITE INFORMATION OBTAINED FROM THE FOLLOWING:
 - PLAN ENTITLED "SALISBURY PLAINS" PREPARED BY PRO TERRA DESIGN GROUP OF HADLEY, MA LAST REVISED 03/18/15.
 - LIMITED FIELD OBSERVATION BY MASER CONSULTING ON 10/05/18.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- THE PROPOSED FACILITY WILL CAUSE AN INSIGNIFICANT OR "DE-MINIMUS" INCREASE IN STORM WATER RUNOFF, THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
- THE FACILITY DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTHS WITH RF ENGINEERING PRIOR TO INSTALLATION.
- THE TOWER, MOUNTS AND ANTENNAS SHALL BE DESIGNED TO MEET EIA/TIA-222-G AS PER IBC REQUIREMENTS.
- ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
- CONTRACTOR MUST FIELD LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
- CONSTRUCTION SHALL NOT COMMENCE UNTIL COMPLETION OF A PASSING STRUCTURAL ANALYSIS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. THE STRUCTURAL ANALYSIS IS TO BE PERFORMED BY OTHERS.
- CONTRACTOR SHALL CONTACT STATE SPECIFIC ONE CALL SYSTEM THREE WORKING DAYS PRIOR TO ANY EARTH MOVING ACTIVITIES.

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at&t

SITE NAME: SALISBURY-NORTH END BLVD

FA NUMBER: 13017921

SITE NUMBER: MA2521S

1C - MRCTB032711

91 NORTH END BLVD.

SALISBURY, MA 01952

ESSEX COUNTY

VICINITY MAP



CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- | | |
|--|--|
| 1. MA STATE BUILDING CODE INCORPORATING THE 2015 INTERNATIONAL BUILDING CODE 9TH EDITION | INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81 |
| 2. 2020 NATIONAL ELECTRICAL CODE - NFPA 70 | IEEE C2 LATEST EDITION |
| 3. MASSACHUSETTS FIRE CODE | 9. TELCORDIA GR-1275 |
| 4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10 | 10. ANSI T1.311 |
| 5. AMERICAN CONCRETE INSTITUTE | 11. PROPOSED USE: UNMANNED TELECOM FACILITY |
| 6. TIA-222-H | 12. FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED. |
| 7. TIA 607 FOR GROUNDING | 13. CONSTRUCTION TYPE: IIB |
| | 14. USE GROUP: U |

PROJECT INFORMATION

SITE INFORMATION

LATITUDE: 42.847150° N
LONGITUDE: 70.818898° W
JURISDICTION: ESSEX COUNTY

APPLICANT/LESSEE

COMPANY: NEW CINGULAR WIRELESS PCS, LLC
ADDRESS: 550 COCHITUATE ROAD
CITY, STATE, ZIP: FRAMINGHAM, MA 01701

STRUCTURE OWNER

COMPANY: TOWN OF SALISBURY
ADDRESS: 5 BEACH ROAD
CITY, STATE, ZIP: SALISBURY, MA 01952

CLIENT REPRESENTATIVE

COMPANY: SMARTLINK, LLC
ADDRESS: 85 RANGWAY ROAD, BUILDING 3, STE. 102
CITY, STATE, ZIP: NORTH BILLERICA, MA 01862
CONTACT: APRIL GRASSO
E-MAIL: APRIL.GROSSO@SMARTLINKLLC.COM

SITE ACQUISITION

COMPANY: SMARTLINK, LLC
ADDRESS: 85 RANGWAY ROAD, BUILDING 3, STE. 102
CITY, STATE, ZIP: NORTH BILLERICA, MA 01862
CONTACT: APRIL GRASSO
E-MAIL: APRIL.GROSSO@SMARTLINKLLC.COM

CONSTRUCTION MANAGER

COMPANY: SMARTLINK, LLC
ADDRESS: 85 RANGWAY ROAD, BUILDING 3, STE. 102
CITY, STATE, ZIP: NORTH BILLERICA, MA 01862
CONTACT: MIKE PARKER
E-MAIL: MICHAEL.PARKER@SMARTLINKLLC.COM

ENGINEER

COMPANY: MASER CONSULTING
ADDRESS: 2000 MIDLANTIC DRIVE, SUITE 100
CITY, STATE, ZIP: MT. LAUREL, NJ 08054
CONTACT: MICHAEL CLEARY
PHONE: (856) 797-0412
E-MAIL: MICHAEL.CLEARY@COLLIERSENGINEERING.COM

PROJECT DESCRIPTION/ SCOPE OF WORK

- INSTALL NEW GENERATOR ON PROPOSED STEEL PLATFORM OUTSIDE TANK

PROPOSED PROJECT SCOPE BASED ON RFDS ID# 2559488, VERSION 7.00, LAST UPDATED 04/27/21.

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
GN-1	GENERAL NOTES
Z-1	200' RADIUS MAP
Z-2	SITE PLAN
C-1	COMPOUND PLAN
C-2	ELEVATION VIEW
G-1	GROUNDING DETAILS AND NOTES
G-2	GROUNDING PLANS
E-1	UTILITY PLAN
S-1	GENERATOR PLATFORM STRUCTURAL DETAILS
S-2	GENERATOR PLATFORM STRUCTURAL DETAILS
S-3	STRUCTURAL DETAILS
S-4	STRUCTURAL DETAILS
S-5	STRUCTURAL DETAILS



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20	11/16/21	ISSUED FOR CONSTRUCTION	JRF	JFR
19	10/13/21	ISSUED FOR CONSTRUCTION	JRF	JFR
18	09/13/21	ISSUED FOR SITE PLAN APPROVAL	JRF	JFR
17	08/12/21	ISSUED FOR CONSTRUCTION	JRF	MPC
16	07/09/21	ISSUED FOR CONSTRUCTION	MJB	MPC
15	06/24/21	ISSUED FOR CONSTRUCTION	MJB	PET
14	06/24/21	ISSUED FOR CONSTRUCTION	MJB	PET



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NSB SALISBURY-NORTH
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FA# 13017921
SITE# MA2521S
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SALISBURY, MA 01952
ESSEX COUNTY



MT. LAUREL OFFICE
2000 Midlantic Drive
Suite 100
Mount Laurel, NJ 08054

Phone: 856.797.0412
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SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

GENERAL NOTES:

1.

THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2.

ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3.

THE SUBCONTRACTOR 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 50 HMS OR LESS.
4.

THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5.

METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
6.

METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
7.

EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE EQUIPMENT GROUND RING WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
8.

CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
9.

ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
10.

ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
11.

USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. ALL BENDS SHALL BE MADE WITH 12" RADIUS OR LARGER.
12.

EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
13.

ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS EXCEPT FOR GROUND BAR CONNECTION FROM MGB TO OUTSIDE EXTERIOR GROUND SHALL ALL BE CADWELD CONNECTIONS.
14.

COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
15.

ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER GROUND BAR.
16.

APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
17.

ALL EXTERIOR AND INTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
18.

MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
19.

BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
20.

GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G. NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
21.

ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/4" IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.
22.

FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR - SMARTLINK

SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)

OWNER - AT&T (NEW CINGULAR WIRELESS PCS, LLC)
23.

ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
24.

DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
25.

ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY

REGARDING THE PERFORMANCE OF THE WORK.

26.

ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
27.

UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
28.

THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
29.

IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
30.

THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
31.

THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
32.

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 THE RESPONSIBLE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
33.

ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
34.

THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
35.

SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
36.

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.
37.

THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
38.

THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
39.

IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
40.

THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
41.

SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
42.

PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR.
43.

SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
44.

ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
45.

ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS.
46.

ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
47.

CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES."
48.

SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
49.

THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION, ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
50.

SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN ALERT OF DANGEROUS EXPOSURE LEVELS.



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SITE NAME:
NSB SALISBURY-NORTH
END BLVD
FA# 13017921
SITE# MA2521S
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SALISBURY, MA 01952
ESSEX COUNTY



MT. LAUREL OFFICE

2000 Piedmont Drive

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Mount Laurel, NJ 08054

Phone: 856.797.0412

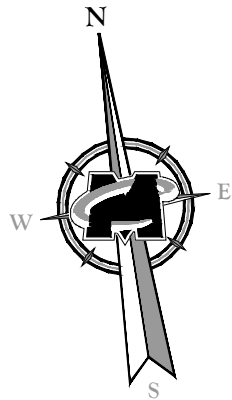
Fax: 856.722.1120

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
GN-1

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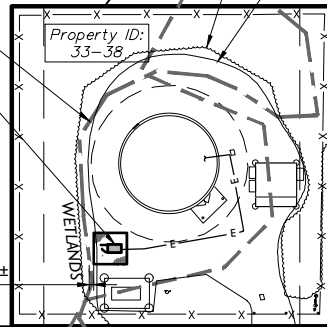
60004118946080A ConstructionRev 2 11/01/2021 P44.0251 CD Rev 21 Rev QH-1 By: JRCAS



200' Radius Line

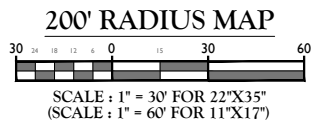
DELINEATION OF SALT MARSH (PER DRAWINGS
PREPARED BY PROTERRA DESIGN GROUP OF
HADLEY, MA LAST REVISED 04/01/15)
PROPOSED AT&T GENERATOR INSTALLED ON
PROPOSED EQUIPMENT PLATFORM

(DISTANCE TO CLOSEST RESOURCE) 1'-4"±



LINE LEGEND

- 200' Radius Line
- - - - - Adjacent Property Line
- Subject Property Line



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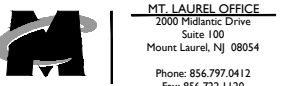
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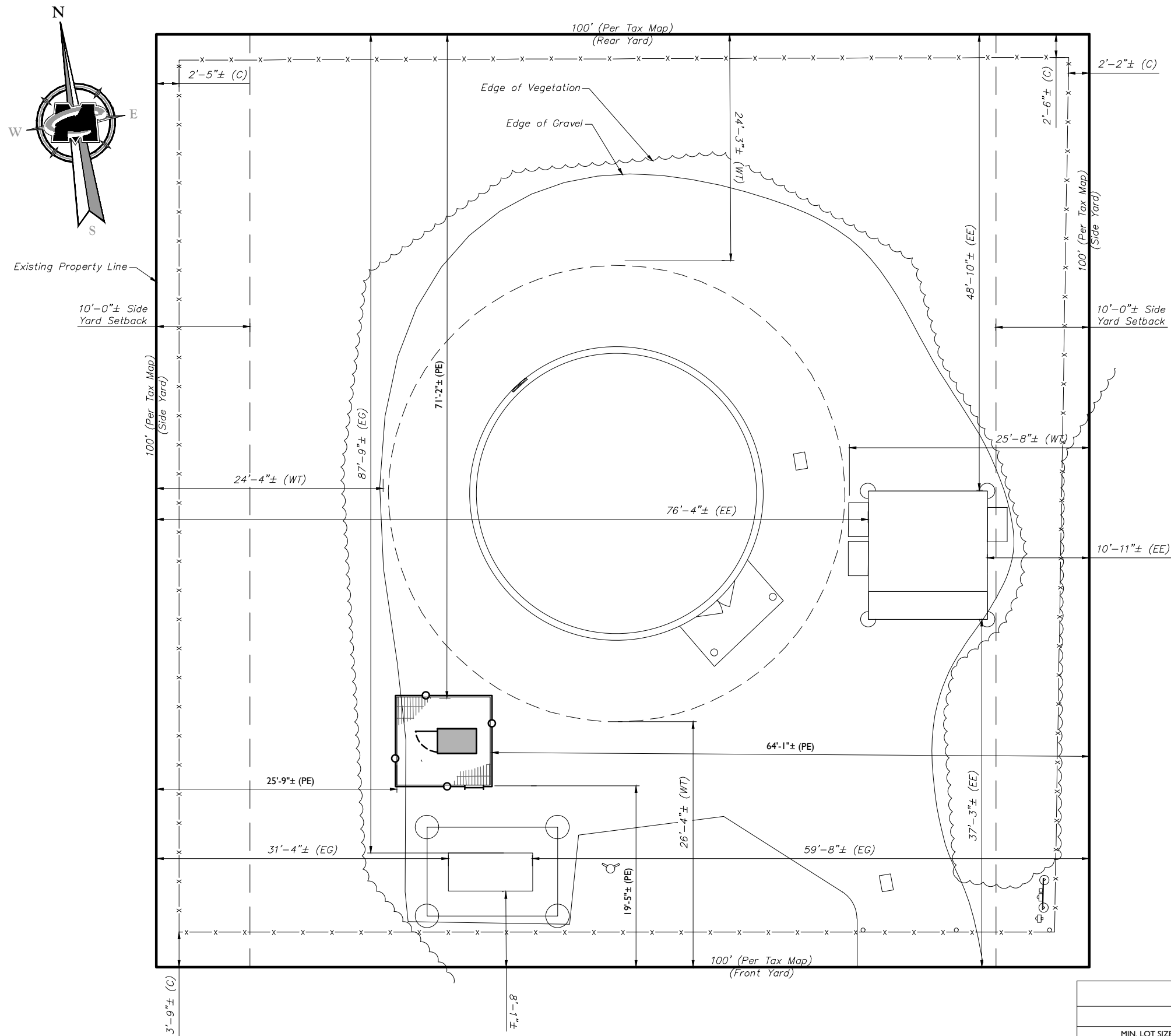


SHEET TITLE:
200' RADIUS MAP

SHEET NUMBER:
Z-1

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603041 (189) 680A ComputerRev 21 130 1791 P44.0251 CD 34x 21 Aug 2022 By: PROJAS



SITE PLAN
SCALE : 1" = 6' FOR 22"X34"
(SCALE : 1" = 12' FOR 11"X17")

Symbol Legend
(C) = Existing Compound
(EE) = Existing Equipment Shelter
(EG) = Existing Generator
(WT) = Existing Water Tank
(PE) = PROPOSED GENERATOR EQUIPMENT AREA

BULK REQUIREMENTS				
	REQUIREMENT	EXISTING	PROPOSED	
MIN. LOT SIZE	-	-	-	-
MIN. FRONTAGE	-	-	-	-
MIN. FRONT YARD SETBACK	-	-	-	-
MIN. SIDE YARD SETBACK	10	2'-0"± (C)	25'-9"± (PE)	EXISTING NON-CONFORMING
MIN. REAR YARD SETBACK	-	-	-	-
MAX. BUILDING LOT COVERAGE	100%	1.4%	NO CHANGE	CONFORMING
MAX. HEIGHT	35	157'-0"± (WT)	NO CHANGE	EXISTING NON CONFORMING
MIN. NUMBER OF PARKING SPACES	-	-	-	-



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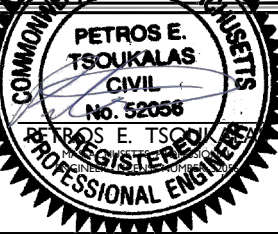
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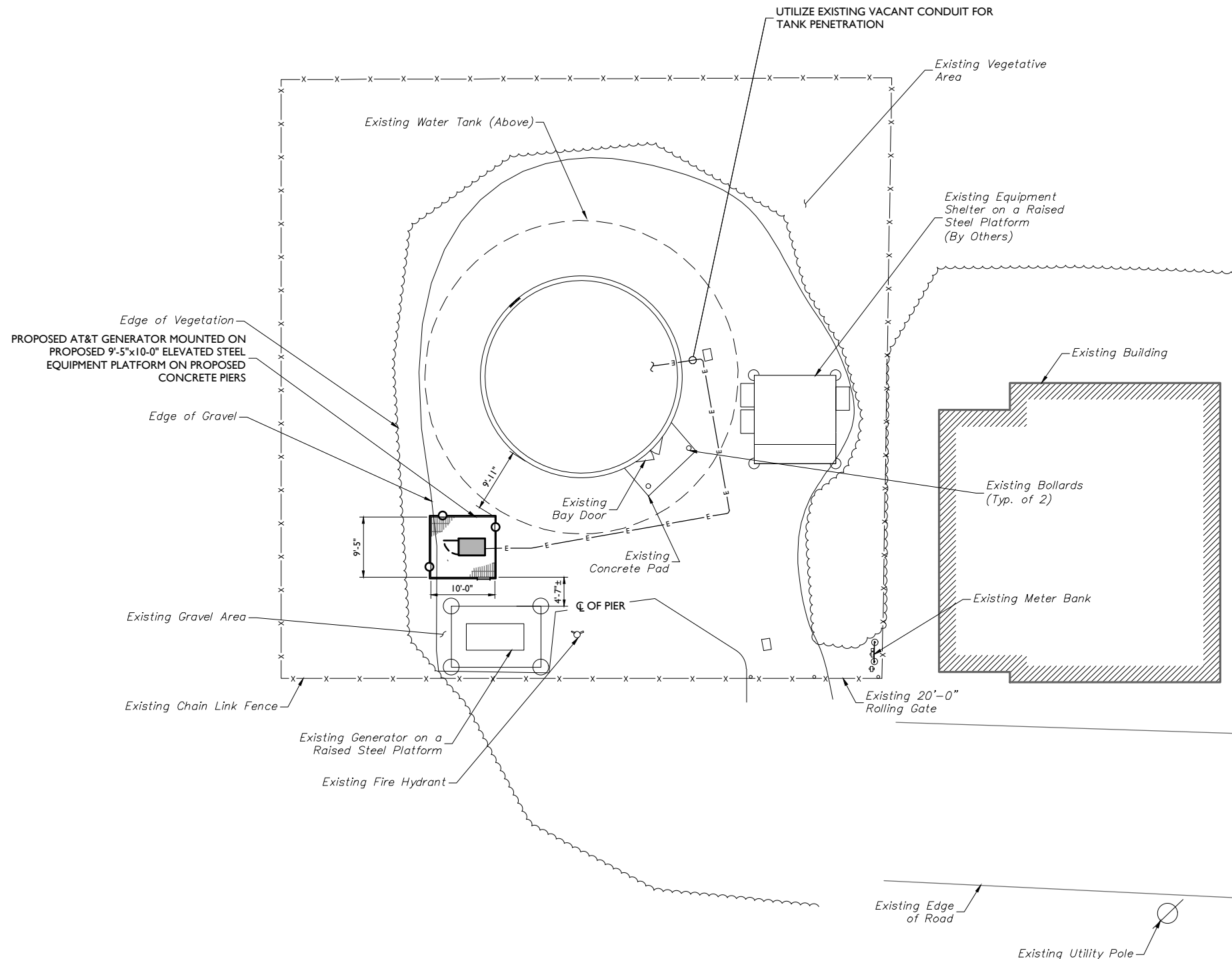
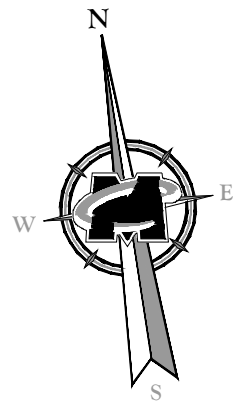
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SHEET TITLE:
SITE PLAN

SHEET NUMBER:
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COMPOUND PLAN
SCALE : 1" = 10' FOR 22"X34"
(SCALE : 1" = 20' FOR 11"X17")

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COMMONWEALTH OF MASSACHUSETTS
PETROS E. TSOUKALAS
CIVIL
No. 52058
REGISTERED PROFESSIONAL ENGINEER

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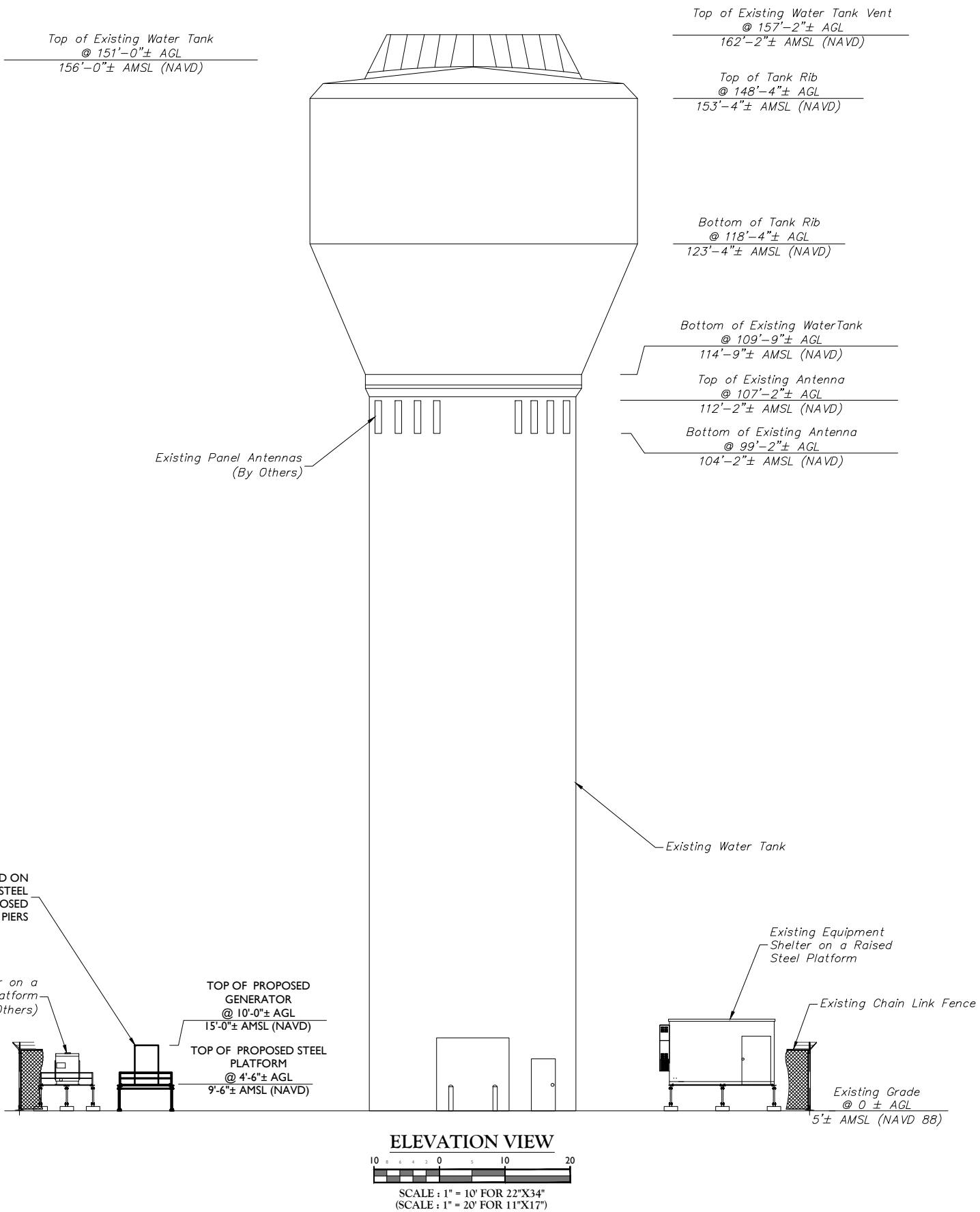
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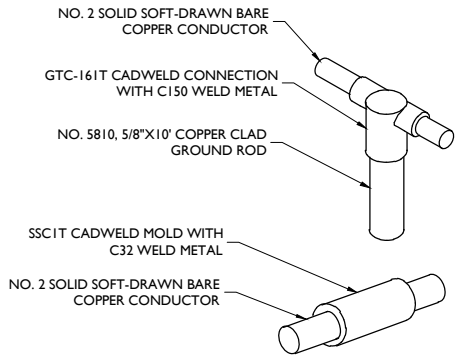
SHEET TITLE:
ELEVATION VIEW

SHEET NUMBER:
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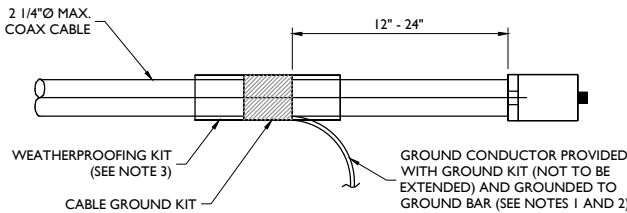
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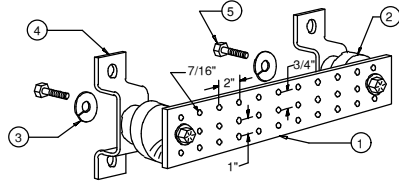
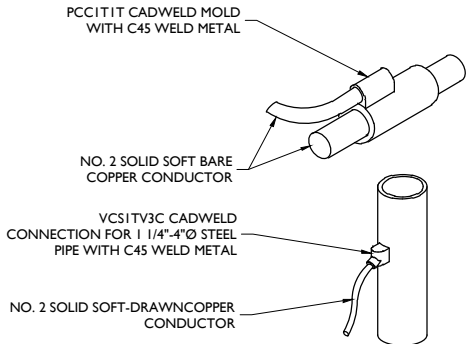
CADWELD DETAILS
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GROUNDING NOTES:

- ALL DOWN CONDUCTORS AND GROUND RING CONDUCTOR SHALL BE #2 AWG.SOLID, BARE, TINNED COPPER,UNLESS OTHERWISE NOTED. ALL CONNECTIONS TO GROUND RING SHALL BE EXOTHERMICALLY WELDED. CONDUCTOR SHALL BE AT A MINIMUM DEPTH BELOW GRADE OF 36 INCHES OR TO LEDGE. MINIMUM BEND RADIUS SHALL BE 8 INCHES. CONDUCTOR SHALL BE AT LEAST 24 INCHES FROM ANY FOUNDATION, UNLESS OTHERWISE NOTED.
- GROUND RODS SHALL BE 5/8" DIAMETER GALVANIZED STEEL, HARGER, T&B, ERICO, OR EQUIVALENT. TOP OF ROD SHALL BE A MINIMUM OF 36" BELOW GRADE.
- WHERE MECHANICAL CONNECTIONS ARE SPECIFIED, BOLTED, COMPRESSION-TYPE, CLAMPS OR SPLIT-BOLT TYPE CONNECTORS SHALL BE USED.
- INSTALL GROUNDING KITS AT ANTENNA CENTERLINE. GROUND COAX LINES. EXOTHERMICALLY WELD #2 DOWN CONDUCTOR TO PLATES, RUN DOWN BUILDING AND TIE INTO GROUNDING SYSTEM.
- ALL GROUNDING WORK SHALL COMPLY WITH AT&T SPECIFICATIONS AND STANDARDS. FOLLOWING COMPLETION OF WORK, GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS (SUBMIT AN INDEPENDENT "FALL POTENTIAL" TESTING REPORT).
- CONTRACTOR SHALL HAND-DIG IN AREAS AROUND EXISTING UTILITIES.
- NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- GROUNDING RING IS SHOWN AS SCHEMATIC ONLY. IT IS DESIGNED WITHOUT BENEFIT OF RESISTIVITY TESTING AND DOES NOT NECESSARILY REPRESENT A GROUNDING SYSTEM TO MEET ANY SPECIFIC GROUND RESISTANCE.



**CONNECTION OF CABLE GROUND
KIT TO ANTENNA CABLE**
NOT TO SCALE



LEGEND

- TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-5056
- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1
- EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

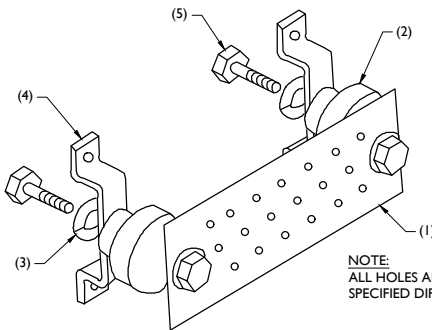
SECTION "P" - SURGE PRODUCERS

CABLE ENTRY PORTS (HATCH PLATES) (#2)
GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
TELCO GROUND BAR
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
+24V POWER SUPPLY RETURN BAR (#2)
-48V POWER SUPPLY RETURN BAR (#2)
RECTIFIER FRAMES.

SECTION "A" - SURGE ABSORBERS

INTERIOR GROUND RING (#2)
EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
BUILDING STEEL (IF AVAILABLE) (#2)

MASTER GROUND BAR
NOT TO SCALE

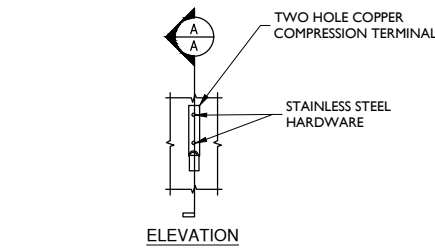


NOTE:
ALL HOLES ARE 7/16" UNLESS
SPECIFIED DIFFERENTLY.

LEGEND:

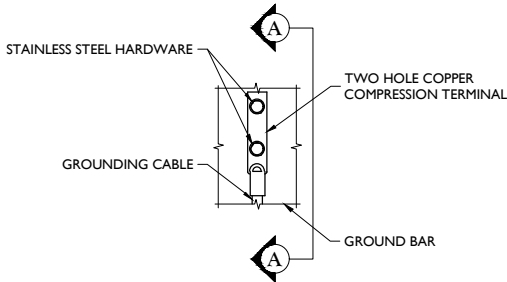
- GALVANIZED STEEL GROUND BAR, 1/4"x4"x24", TESSCO P/N GSLBC-0424-NH. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- STANDOFF INSULATORS, HARGER LIGHTNING PROTECTION, INC. CAT. NO. 5263-A8
- 1/2" LOCKWASHERS, HARGO CO. CAT. NO. LWB5.
- WALL MOUNTING STAINLESS STEEL, MOUNTING BRACKT, HARGER CAT. NO. WBKT-1.
- 1/2-13 x 1" HEX HEAD CAP SCREW, HARGER, CAT. NO. CS885.

GROUND BAR DETAIL
NOT TO SCALE

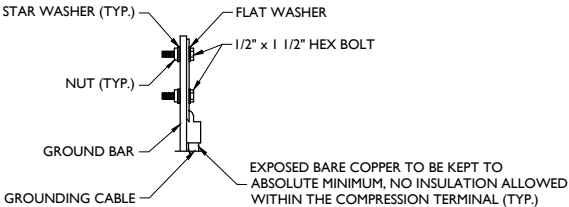


SECTION A-A

**TYPICAL GROUND BAR
CONNECTION DETAIL**
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ELEVATION VIEW



SECTION "A-A"

**TYPICAL GROUND BAR
MECHANICAL CONNECTION DETAIL**
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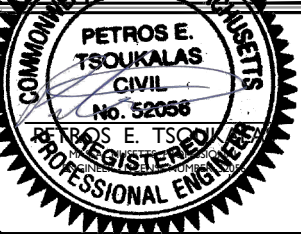
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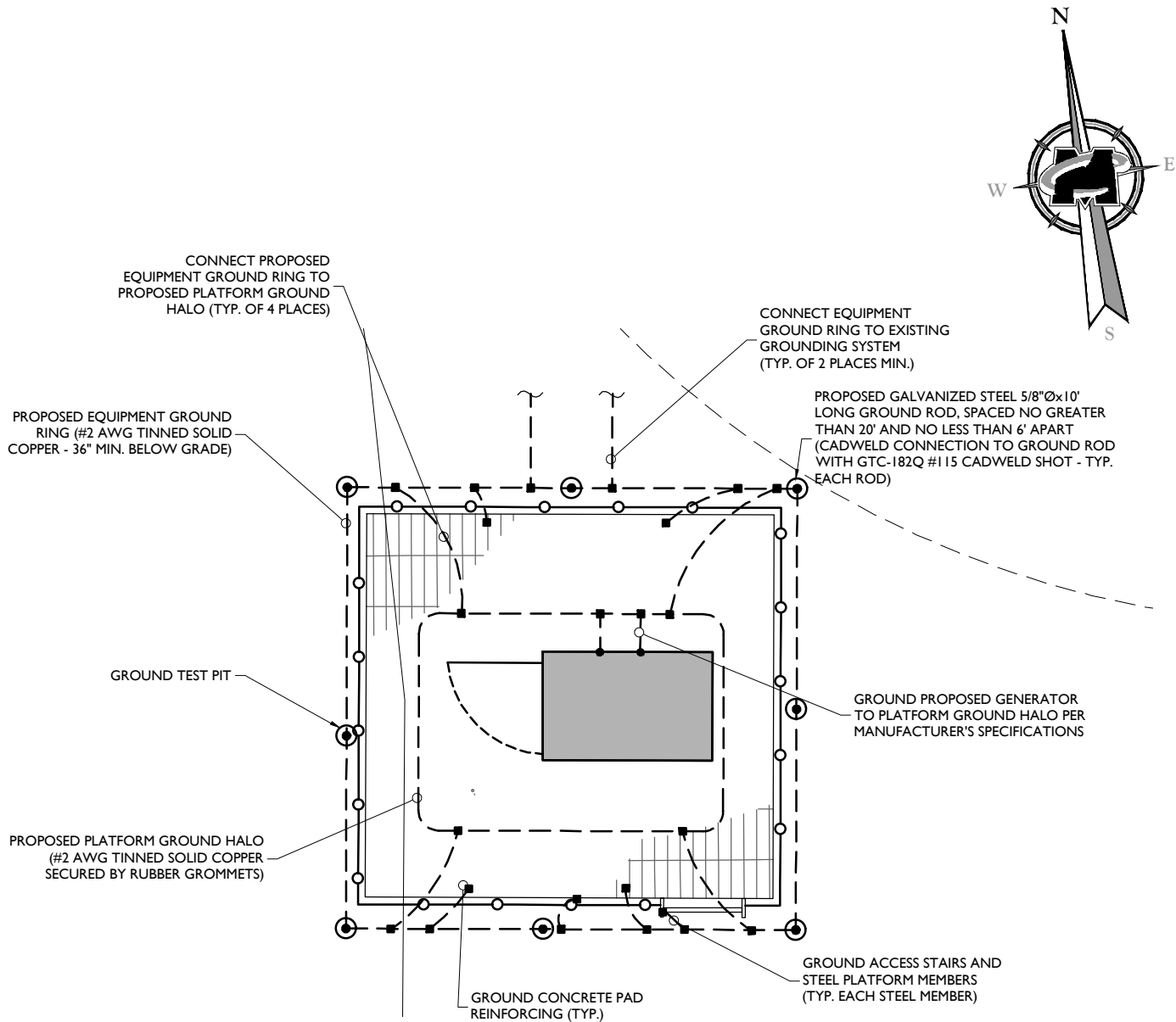
GROUNDING DETAILS
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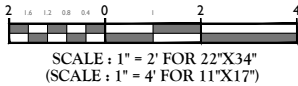
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EXTERIOR GENERATOR PLATFORM GROUNDING PLAN



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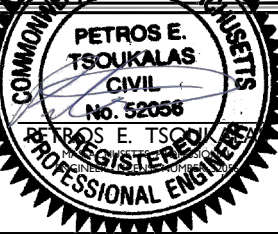


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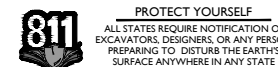
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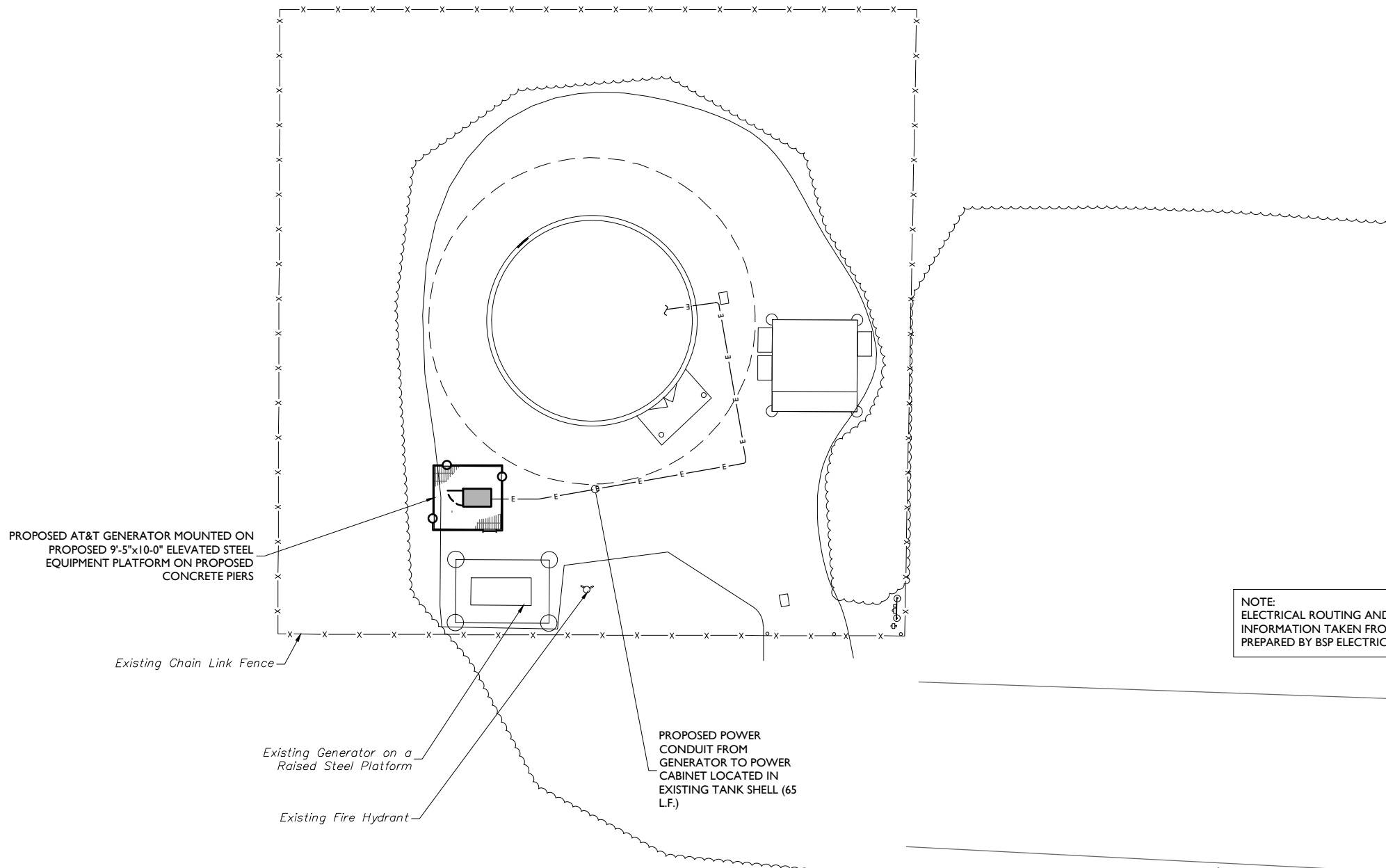
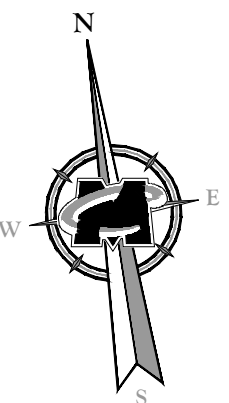


SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
E-1

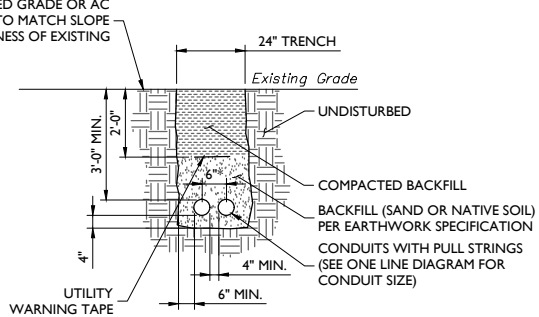
NOTE:

- APPROXIMATE LENGTH OF PROPOSED CABLE TRENCH = 65'±.
- PROPOSED CABLE TRENCH SHOULD HAVE A MINIMUM DEPTH OF 3'-0" AND SHOULD BE APPROXIMATELY 24" WIDE DEPENDING ON UTILITY COMPANIES MINIMUM CABLE SEPARATION REQUIREMENTS.



NOTE:
ELECTRICAL ROUTING AND WIRE SIZE
INFORMATION TAKEN FROM EE MEMO
PREPARED BY BSP ELECTRIC, INC. 05/12/2021.

UTILITY PLAN
SCALE : 1" = 10' FOR 22"X34"
(SCALE : 1" = 20' FOR 11"X17")



* SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

UTILITY CONDUIT RUN
NOT TO SCALE

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

GENERAL NOTES

- THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
- ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
- CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
- CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

SEISMIC LOADS

- SEISMIC DESIGN CATEGORY D
- SHORT TERM MCER GROUND MOTION, $S_s = 0.343$
- LONG TERM MCER GROUND MOTION, $S_1 = 0.075$

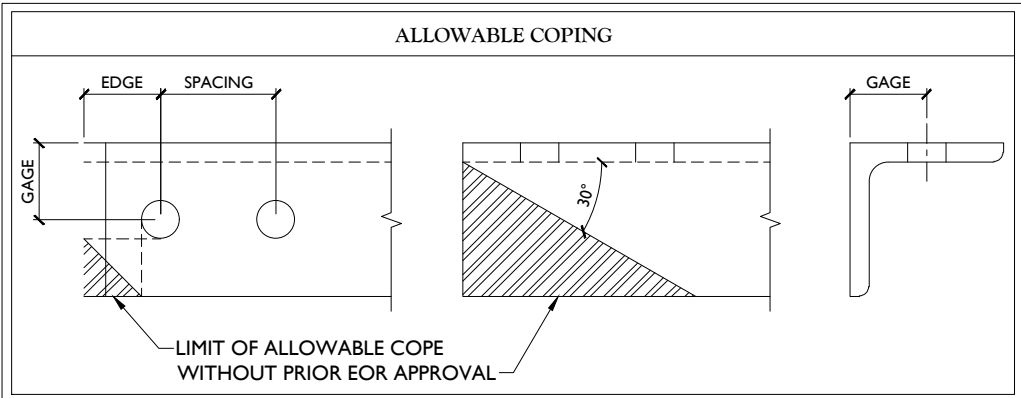
STRUCTURAL STEEL

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - AISC CODE OF STANDARD PRACTICE
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

- ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO JAVIER.ROJAS@COLLIERSENGINEERING.COM
 - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL
- DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
- WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

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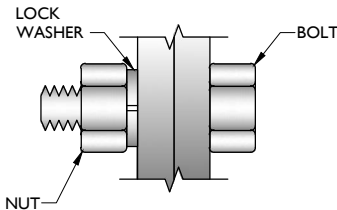


BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 1 1/16	7/8	1 1/2
5/8	1 1/16	1 1/16 x 7/8	1 1/8	1 7/8
3/4	1 3/16	1 3/16 x 1	1 1/4	2 1/4
7/8	1 5/16	1 5/16 x 1 1/8	1 1/2	2 5/8
1	1 7/16	1 7/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
- MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



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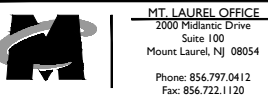
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20	11/16/21	ISSUED FOR CONSTRUCTION	JRF	JFR
19	10/13/21	ISSUED FOR CONSTRUCTION	JRF	JFR
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16	07/09/21	ISSUED FOR CONSTRUCTION	MJB	MPC
15	06/24/21	ISSUED FOR CONSTRUCTION	MJB	PET
14	06/24/21	ISSUED FOR CONSTRUCTION	MJB	PET



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NSB SALISBURY-NORTH
END BLVD
FA# 13017921
SITE# MA2521S
91 NORTH END BLVD.
SALISBURY, MA 01952
ESSEX COUNTY





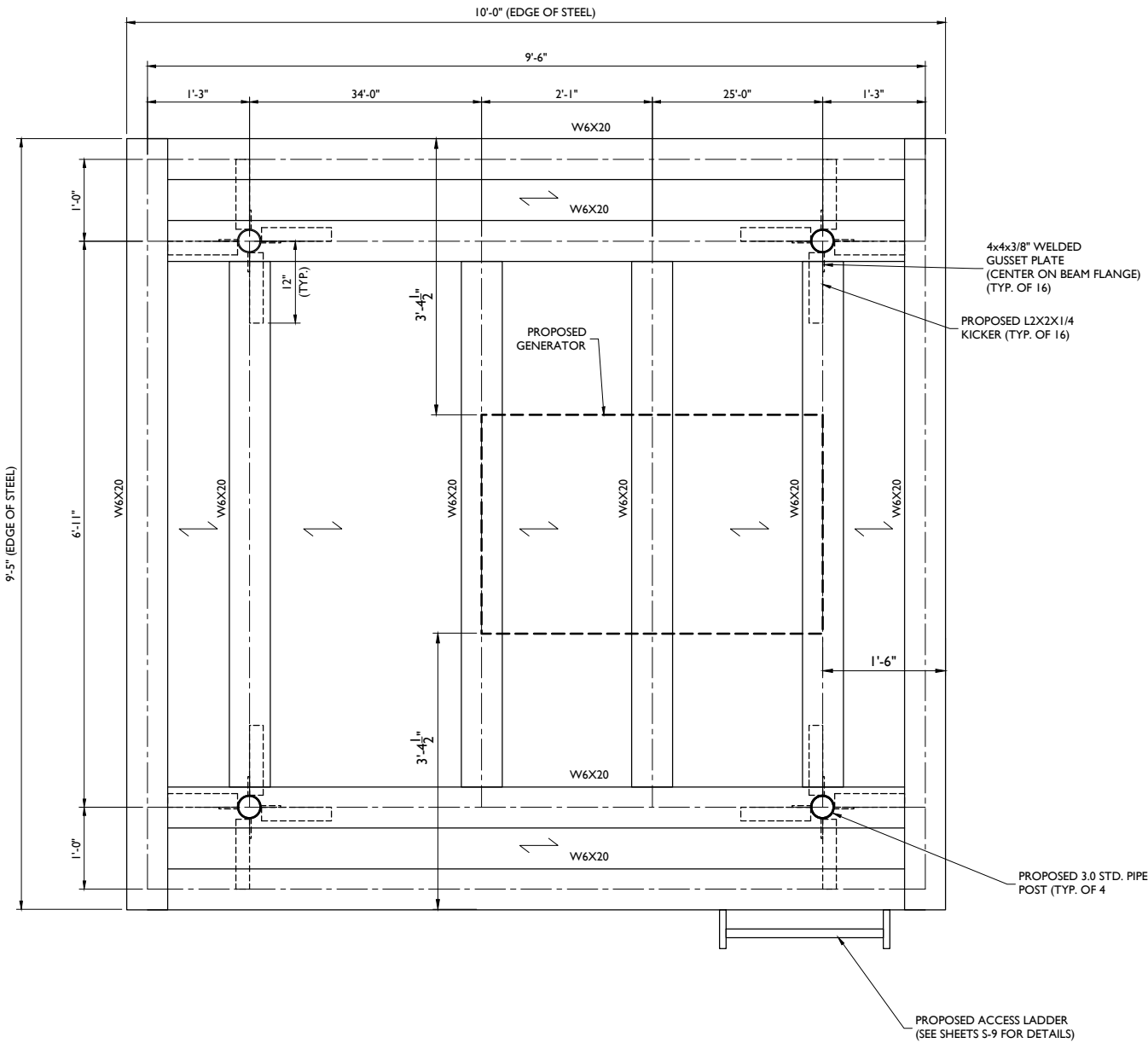
SHEET TITLE:
STRUCTURAL NOTES AND DETAILS

SHEET NUMBER:
S-5

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

STRUCTURAL NOTES:

1. ALL STEEL WORK SHALL GALVANIZED IN ACCORDANCE WITH ASTM 123 SPECIFICATIONS UNLESS NOTED OTHERWISE AND SHALL BE THE FOLLOWING MATERIALS:
- | | |
|-----------------------------|--------------------|
| a. W-SHAPES | ASTM A992 |
| b. CHANNELS, ANGLES, PLATES | ASTM A36 |
| c. TUBES | ASTM A500 GR. B 46 |
| d. PIPES | ASTM A53 GR. B |
| e. BOLTS | ASTM A325 |
2. SHOP AND FIELD WELDING SHALL BE PERFORMED BY WELDERS THAT ARE CERTIFIED (AWS "STANDARD QUALIFICATION PROCEDURE") TO PERFORM THE TYPE OF WORK REQUIRED. WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS) D1.1 "STRUCTURAL WELDING CODE - STEEL". PROVIDE THE MINIMUM SIZE PER PART 8 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", LRFD 14TH EDITION, WHEN WELD SIZES ARE NOT SHOWN. USE E70XX ELECTRODES FOR ALL WELDING.
3. GALVANIZED COATING THICKNESS TO BE G90.
4. ALL CONNECTIONS SHALL BE IN STRICT ACCORDANCE WITH THE AISC SPECIFICATIONS AND AWS CODES. UNLESS OTHERWISE SHOWN, ALL BOLTED FRAMING CONNECTIONS SHALL USE 3/4" DIAMETER ASTM A325 BOLTS DESIGNED AND DETAILED AS BEARING-TYPE CONNECTIONS IN ACCORDANCE WITH THE 1985 AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 (SURFACE CONDITION SHALL BE CLASS A OR BETTER AND FASTENER TENSION IN ACCORDANCE WITH TABLE 4). CONNECTIONS NOT SHOWN SHALL BE AS SHOWN IN TABLE II OF THE AISC "LOAD AND RESISTANCE FACTOR DESIGN OF SIMPLE SHEAR CONNECTIONS" USING THE MAXIMUM NUMBER OF ROWS OF BOLTS FOR EACH BEAM SIZE. ALL WELDED FRAMING CONNECTIONS SHALL HAVE A CAPACITY NO LESS THAN THAT OF AN EQUIVALENT BOLTED CONNECTION AS STATED ABOVE.
5. UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE INSTALLED WITH HEADS UP OR TOWARD THE OUTSIDE FACE, AND NUTS DOWN.
6. STEEL GRATING TO BE WELDFORGED WELDED RECTANGULAR DESIGN, TYPE W/B AS MANUFACTURED BY IKG INDUSTRIES OR EQUAL. MAIN BEARING BARS TO BE 1"x3/16" SPACED 1-3/16 INCHES CENTER-TO-CENTER. CROSS BARS TO BE RESISTANCE WELDED AT RIGHT ANGLES TO THE BEARING BARS. THEY SHALL BE SPACED 4 INCHES CENTER-TO-CENTER. NO NOTCHING OR CUTTING OF BEARING BARS WITHOUT REINFORCEMENT OF GRATING IS PERMISSIBLE. SURFACE SHALL BE SERRATED AND FINISH GALVANIZED.
7. GRATING IS TO BE ATTACHED TO THE STEEL USING EITHER SADDLE CLAMPS OR 5/8"Ø GALVANIZED ASTM A307 BOLTS, UNLESS NOTED OTHERWISE.
8. USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED MATERIALS. AT COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
9. TOUCHUP ALL DAMAGE GALVANIZED STEEL WITH COLD ZINC, "GALVANOX", "DRY GALV.", "ZINC-IT" OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
10. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE CURRENT EDITION OF AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS - LOAD AND RESISTANCE FACTOR DESIGN".
11. SHOP DRAWINGS GIVING COMPLETE INFORMATION NECESSARY FOR THE FABRICATION OF THE COMPONENTS PARTS OF THE FRAMING STRUCTURE, INCLUDING THE LOCATION, TYPE, AND SIZE OF ALL WELDS, BOLTS AND THE ACTUAL FABRICATION. THESE DRAWINGS SHALL CLEARLY DISTINGUISH BETWEEN SHOP AND FIELD WELDS AND BOLTS AND CLEARLY IDENTIFY TYPE OF HIGH-STRENGTH BOLTED CONNECTION (SNUG-TIGHT, OR FULLY TIGHTENED BEARING, OR SLIP-CRITICAL).
12. SHOP PAINTING AND SURFACE PREPARATION OF STRUCTURAL STEEL COMPONENTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF STEEL CONSTRUCTION, INC.
13. THE HANDRAIL AND EQUIPMENT PLATFORM SHALL BE IN ACCORDANCE WITH CURRENT OSHA REGULATIONS.
14. MEMBERS SHALL BE LAID PLUMB AND TRUE AS SHOWN ON THE DRAWINGS.
15. COPE ALL FRAMING AT ENDS AS NECESSARY, UNLESS NOTED OTHERWISE.
16. THE GENERAL CONTRACTOR AND THEIR SUBCONSULTANTS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK.
17. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND LAYOUT OF THE EXISTING STEEL REINFORCEMENT PRIOR TO ANY FABRICATION AND ERECTION OF STEEL. (EXISTING STRUCTURAL DETAILS AND INFO SHOWN ON THESE DRAWINGS WERE OBTAINED FROM FIELD OBSERVATIONS AND EXISTING DOCUMENTS REFERENCED UNDER PROJECT NOTE #1 ON SHEET T-1.)
18. TOP OF STEEL (T.O.S.) REFERENCE ELEVATION 5'-6" = T.O.S. FRAMING UNLESS NOTED OTHERWISE THUS (±X").
19. V.I.F. = VERIFY IN FIELD
20. CONTRACTOR TO VERIFY BOLT HOLE LOCATIONS FOR EQUIPMENT CABINETS WITH MANUFACTURER.
21.  DENOTES HANDRAIL
22.  DENOTES GRATING DIRECTION
23. STRUCTURAL LOADING:
- 23.1. WIND LOADING: 124 MPH (3-SECOND GUST) PER ASCE 7-10
- 23.2. (1) 15KW GENERATOR - POLAR POWER 15KW DIESEL GENERATOR (2,500 LBS)



GENERATOR PLATFORM STRUCTURAL FRAMING PLAN



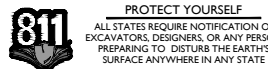
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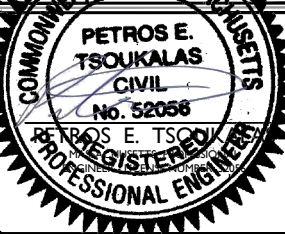


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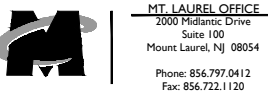
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SITE# MA2521S
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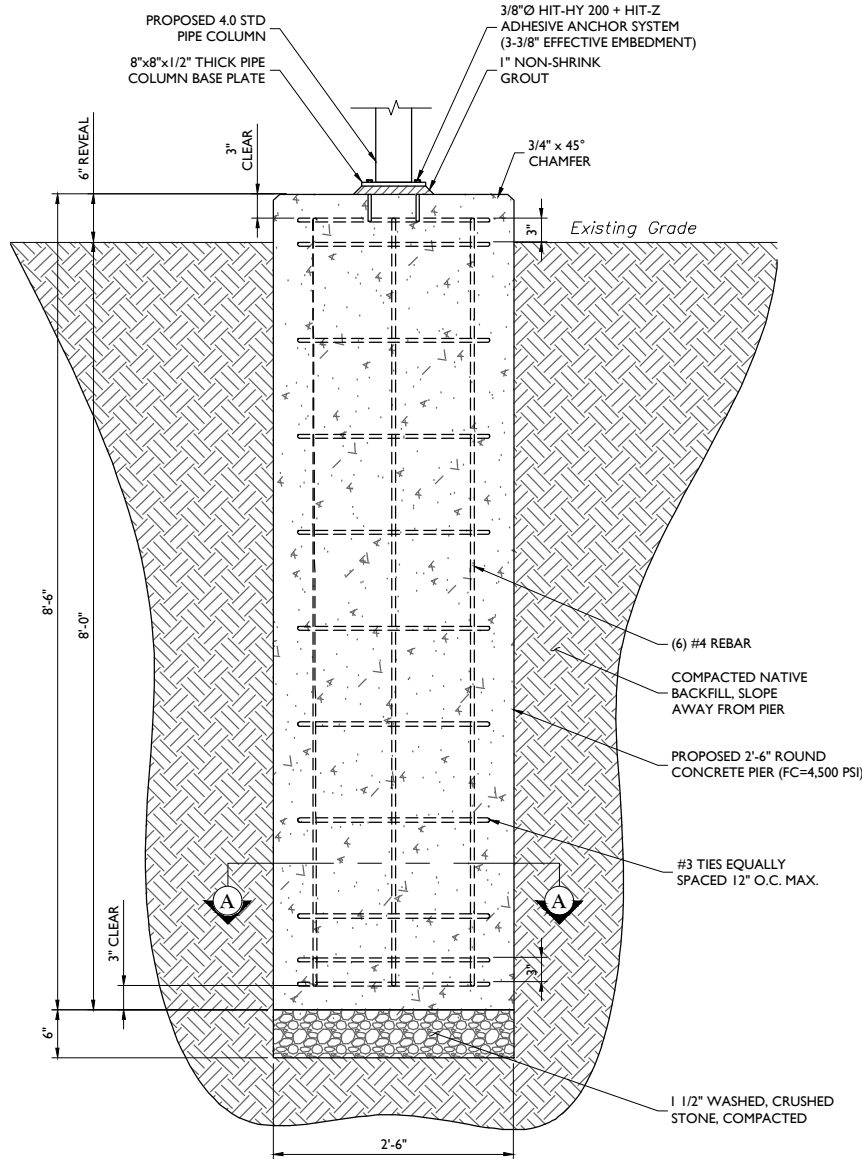
SHEET TITLE:

STRUCTURAL DETAILS

SHEET NUMBER:

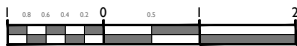
S-2

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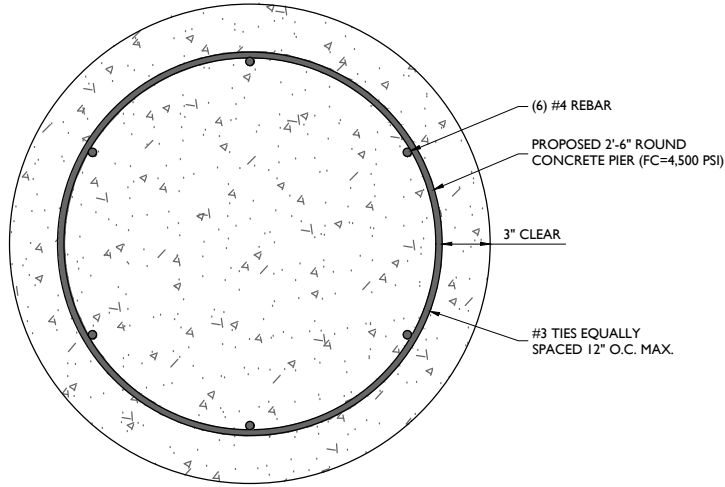


- NOTES:**
- TOP OF ALL EQUIPMENT PLATFORM FOUNDATIONS SHALL BE SET AT THE SAME ELEVATION.
 - CONTRACTOR SHOULD FIELD VERIFY TOP OF CONCRETE ELEVATIONS TO ENSURE T.O.S. ELEVATIONS ARE UNIFORM.
 - COMPACTED BACKFILL SURROUNDING PROPOSED PIERS IS TO BE COMPACTED TO 95% DRY DENSITY.

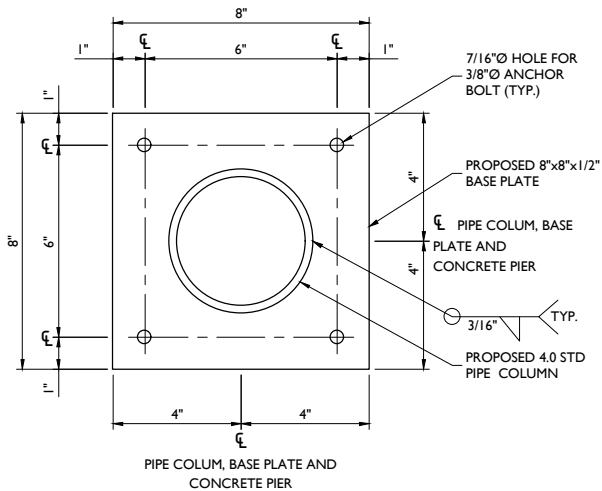
EQUIPMENT PLATFORM FOUNDATION



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SECTION "A-A"



PIPE COLUMN BASE
PLATE DETAIL
NOT TO SCALE

CONCRETE AND REINFORCING STEEL NOTES

DESIGN INFORMATION:

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336A, ASTM A184, ASTM A185 AND THE DESIGN & CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- THE DESIGN SHALL CONFORM TO THE INTERNATIONAL BUILDING COD AS SHOWN ON SHEET T-1.

EARTHWORK:

- FOUNDATIONS HAVE BEEN DESIGNED TO BEAR ON (UNDISTURBED RESIDUAL SOILS/COMPACTED STRUCTURAL FILL), CAPABLE OF SAFELY SUPPORTING AN ALLOWABLE BEARING PRESSURE OF 6,750 PSF. IF FOUNDATION CONDITIONS PROVE UNACCEPTABLE AT ELEVATIONS SHOWN, EXCAVATION SHALL BE CARRIED DEEPER AND SHALL BE BACKFILLED WITH LEAN CONCRETE TO PLAN FOOTING BOTTOM, OR REDISIGN OF FOUNDATIONS WILL BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
- DESIGN FURNISH AND INSTALL TEMPORARY SHEETING, SHORING, AND DRAINAGE TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.
- THOROUGHLY COMPACT ALL BOTTOM OF FOOTINGS PRIOR TO PLACING ANY CONCRETE.

CONCRETE:

1. FORMWORK

- CONCRETE CONSTRUCTION SHALL CONFORM TO "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." (ACI 301-89).
- FORMWORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"

2. REINFORCEMENT

- REINFORCING STEEL ASTM A615, GRADE 60, WELDED WIRE ASTM A185 (FLAT SHEET), LAPS 40 BAR DIAMETERS UNLESS NOTED. BARS SHALL BE SECURELY HELD IN ACCURATE POSITION BY SUITABLE ACCESSORIES, TIE BARS, SUPPORT BARS, ETC. HOOK LENGTHS SHALL BE 12 BAR DIAMETERS.
- CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED.

2.b.1. FOOTINGS AND SLABS CAST AGAINST GROUND	3"
2.b.2. CONCRETE TO BE IN CONTACT WITH GROUND OR WEATHER AT BARS GREATER THAN 5"	2"
2.b.3. AT BARS #5 OR LESS	1 1/2"
2.b.4. CONCRETE NOT TO BE EXPOSED TO GROUND OR WEATHER BEAMS, GIRDERS, AND COLUMNS	1 1/2"
2.b.5. SLABS AND WALLS	3/4"

2.c. CAST IN PLACE CONCRETE

- MINIMUM 28 DAY CYLINDER STRENGTH AND MAXIMUM SLUMP, PRIOR TO ADDITION F SUPER PLASTICIZERS, AS FOLLOWS:

2.c.1.1. CLASS I FOOTINGS	4,500 PSI	3"
2.c.1.2. CLASS III INTERIOR ELEVATED SLABS AND WALLS	4,000 PSI	4"
2.c.1.3. CLASS V OTHER WORK	4,000 PSI	4"
2.c.1.4. CLASS VI LEAN CONCRETE FOR OVEREXCAVATION OF FOUNDATIONS	2,000 PSI	N/A
- MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 5. NO CALCIUM CHLORIDE ADMIXTURE CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE
- COARSE AGGREGATE FOR NORMAL WIEGHT CONCRETE SHALL CONFORM TO ASTM C33 SIZE #57, COARSE AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C330 GRADED 3/4" TO 1/4".
- COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1
- HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R.
- CHAMFER ALL EXPOSED EDGES 3/4"
- THE MAXIMUM TEMPERATURE OF ALL CONCRETE AT DELIVERY TO THE SITE SHALL BE 85°F
- TOTAL DELIVERY TIME SHALL BE LESS THAN 75 MINUTES.

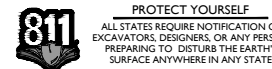


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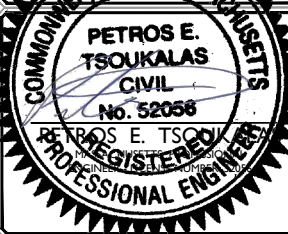
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21	02/16/22	ISSUED FOR CONSTRUCTION	AJC	JFR
20	11/16/21	ISSUED FOR CONSTRUCTION	JRF	JFR
19	10/13/21	ISSUED FOR CONSTRUCTION	JRF	JFR
18	09/13/21	ISSUED FOR SITE PLAN APPROVAL	JRF	JFR
17	08/12/21	ISSUED FOR CONSTRUCTION	JRF	MPC
16	07/09/21	ISSUED FOR CONSTRUCTION	MJB	MPC
15	06/24/21	ISSUED FOR CONSTRUCTION	MJB	PET
14	06/24/21	ISSUED FOR CONSTRUCTION	MJB	PET



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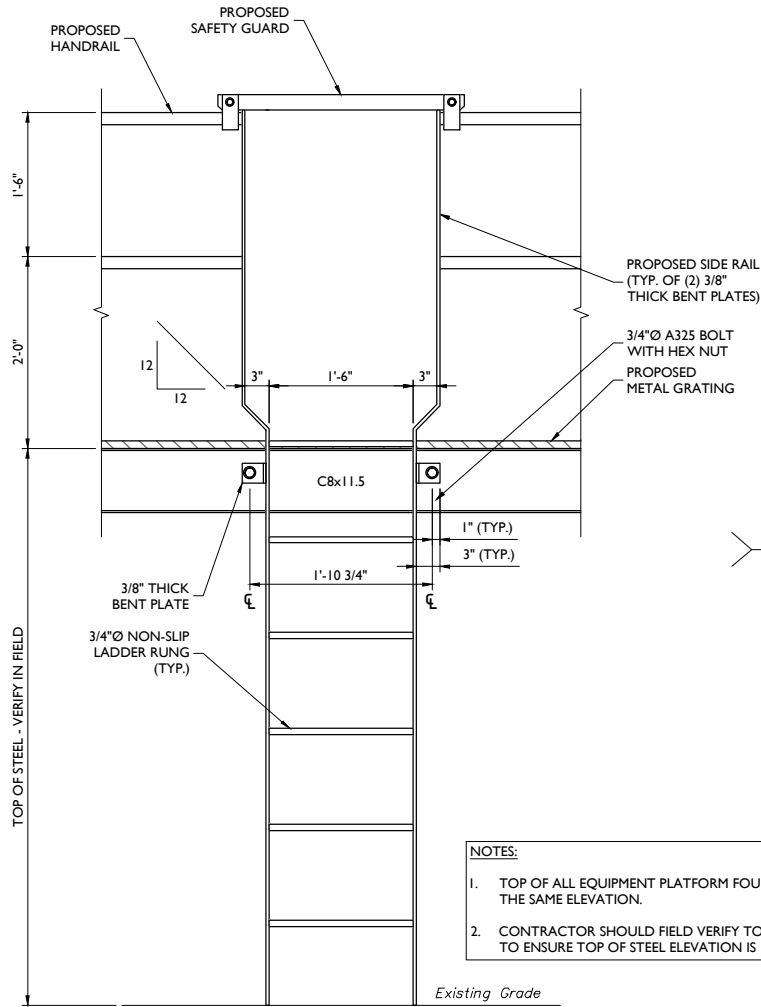
SITE NAME:
NSB SALISBURY-NORTH
END BLVD
FA# 13017921
SITE# MA2521S
91 NORTH END BLVD.
SALISBURY, MA 01952
ESSEX COUNTY

MT. LAUREL OFFICE
2000 Midland Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
STRUCTURAL DETAILS

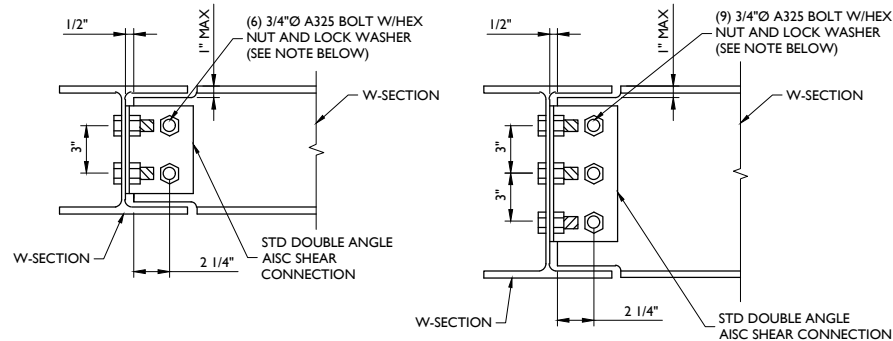
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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



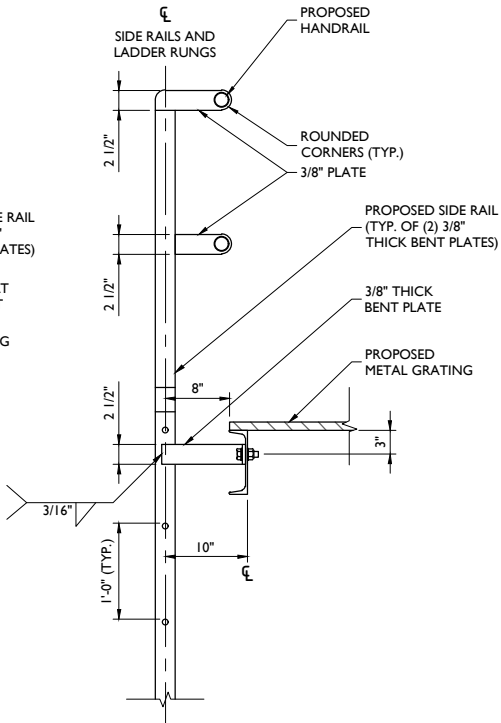
FRONT ELEVATION VIEW

ACCESS LADDER DETAIL
NOT TO SCALE

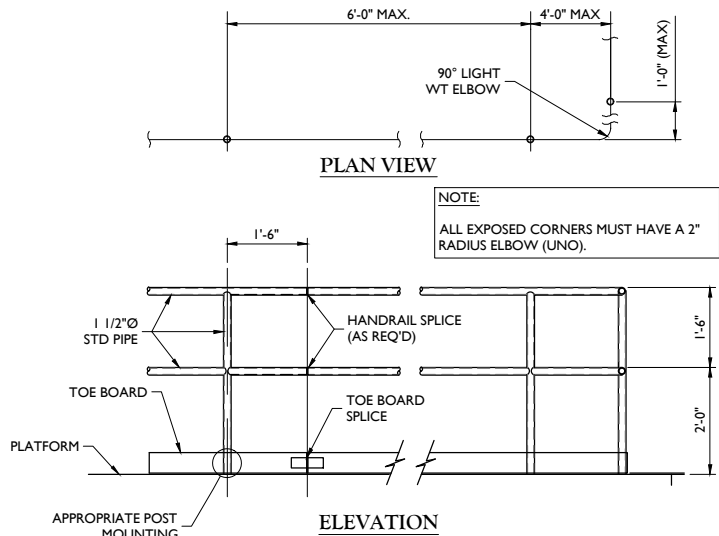


NOTE:
USE SAME DETAIL FOR C-SECTION TO W-SECTION FRAMING EXCEPT THAT THE ANGLE CLIP WILL BE NEAR SIDE ONLY.

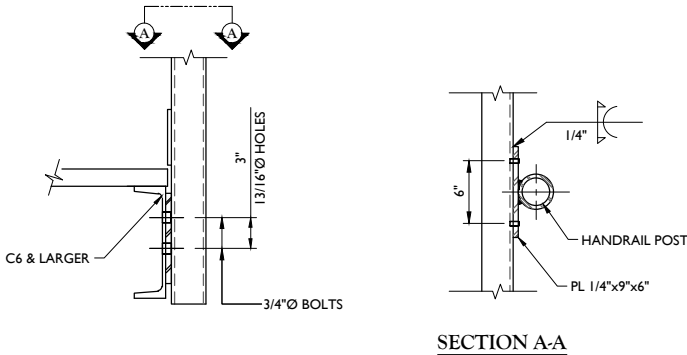
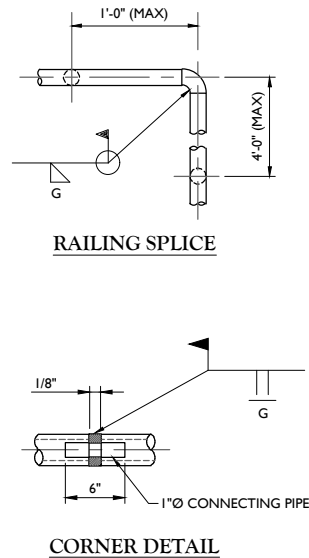
TYPICAL BEAM FRAMING
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SIDE ELEVATION VIEW



MISCELLANEOUS HANDRAIL DETAILS
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HANDRAIL POST CONNECTION DETAILS
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SHEET TITLE:
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SHEET NUMBER:
S-5