

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 SHUT DOWN 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 BOULEVARD

SALISBURY, MA 01952

ESSEX COUNTY

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APR 08 2021

**TOWN OF SALISBURY
PLANNING BOARD**

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APR - 8 2021

**TOWN CLERK
TOWN OF SALISBURY**



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SCALE: AS SHOWN JOB NUMBER: 18946080A

REV	DATE	REVISION	BY	CHECKED	BY
10	04/05/21	ISSUED FOR CONSTRUCTION	HJB	HPC	
9	03/18/21	ISSUED FOR CONSTRUCTION	HJB	HPC	
8	11/11/20	ISSUED FOR CONSTRUCTION	HJB	HPC	
7	09/30/20	REVISED PER COMMENTS	APN	HPC	
6	01/23/20	REVISED PER COMMENTS	HL	FEI	
5	08/09/19	FOR CONSTRUCTION	AJC/KCP	LJ	
4	05/07/19	REVISED PER COMMENTS	JSR	LJ	
3	04/02/19	REVISED PER COMMENTS	HJB	RA	



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SITE NAME:

**NSB SALISBURY-NORTH
END BLVD
FA# 13017921
SITE# MA2521S
91 NORTH 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

TITLE SHEET

T-I

VICINITY MAP



PROJECT LOCATION

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.

- MA STATE BUILDING CODE INCORPORATING THE 2015 INTERNATIONAL BUILDING CODE
- MASSACHUSETTS ELECTRICAL CODE
- MASSACHUSETTS FIRE CODE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360-10
- AMERICAN CONCRETE INSTITUTE
- TIA-222-G
- TIA 607 FOR GROUNDING
- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS 81 IEEE C2 LATEST EDITION
- TELCORDIA GR-1275
- ANSI T1.311
- PROPOSED USE: UNMANNED TELECOM FACILITY
- HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.
- CONSTRUCTION TYPE: IIB
- 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: TODD OLIVER
E-MAIL: TODD.OLIVER@SMARTLINKLLC.COM

SITE ACQUISITION

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

CONSTRUCTION MANAGER

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

ENGINEER

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

PROJECT DESCRIPTION/ SCOPE OF WORK

- INSTALL (12) NEW RRU'S, (4) PER SECTOR
- INSTALL (9) NEW PANEL ANTENNAS, (3) PER SECTOR
- INSTALL (9) NEW ANTENNA FLUSH MOUNTS
- INSTALL (9) NEW DC-6 SURGE SUPPR. DOMES, (3) PER SECTOR
- INSTALL (3) NEW 18-PAIR FIBER TRUNKS
- INSTALL (6) NEW 6/C DC CABLES

PROPOSED PROJECT SCOPE BASED ON RFDS ID# 2559488, VERSION 3.00, LAST UPDATED 04/20/2019.

SHEET INDEX

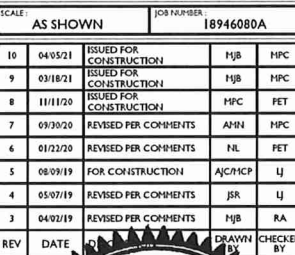
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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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- 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 ($F_y = 36$ ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E ($F_y = 36$ 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.

REGARDING THE PERFORMANCE OF THE WORK.



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END BLVD
FA# 13017921
SITE# MA2521S
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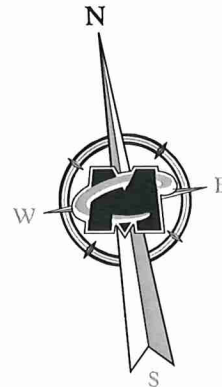
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GENERAL NOTES

SHEET NUMBER:

GN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



200' Radius Line

Property ID:
33-37

PROPOSED AREA OF WORK
(REFER TO SHEET C-2 FOR
DETAILED LAYOUT)

Property ID:
33-38

Property ID:
33-41

Property ID:
33-43

Property ID:
33-40

Property ID:
33-42

Property ID:
33-36

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33-35

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33-34

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33-33

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33-32

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33-30

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33-46

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33-220

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33-219

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33-218

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33-217

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33-288

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33-216

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33-215

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33-214

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33-213

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33-212

Property ID:
33-221

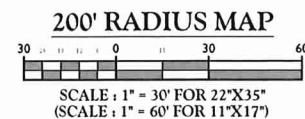
Property ID:
33-294

Property ID:
33-222

Property ID:
33-211

LINE LEGEND

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



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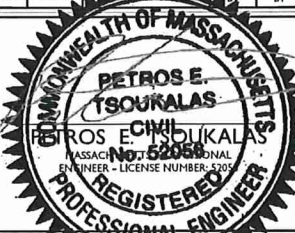
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9	03/18/21	ISSUED FOR CONSTRUCTION	HJB HPC
8	11/11/20	ISSUED FOR CONSTRUCTION	HPC PET
7	09/30/20	REVISED PER COMMENTS	AMH HPC
6	01/23/20	REVISED PER COMMENTS	NL PET
5	08/09/19	FOR CONSTRUCTION	AJC/HCP LJ
4	05/07/19	REVISED PER COMMENTS	JR LJ
3	04/02/19	REVISED PER COMMENTS	HJB RA
REV	DATE	DRAWN BY	CHECKED BY



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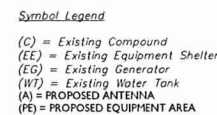
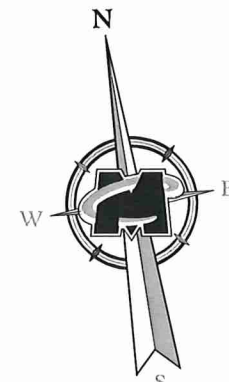
MT. LAUREL OFFICE
2000 Piedmont Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
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200' RADIUS MAP

Z-1



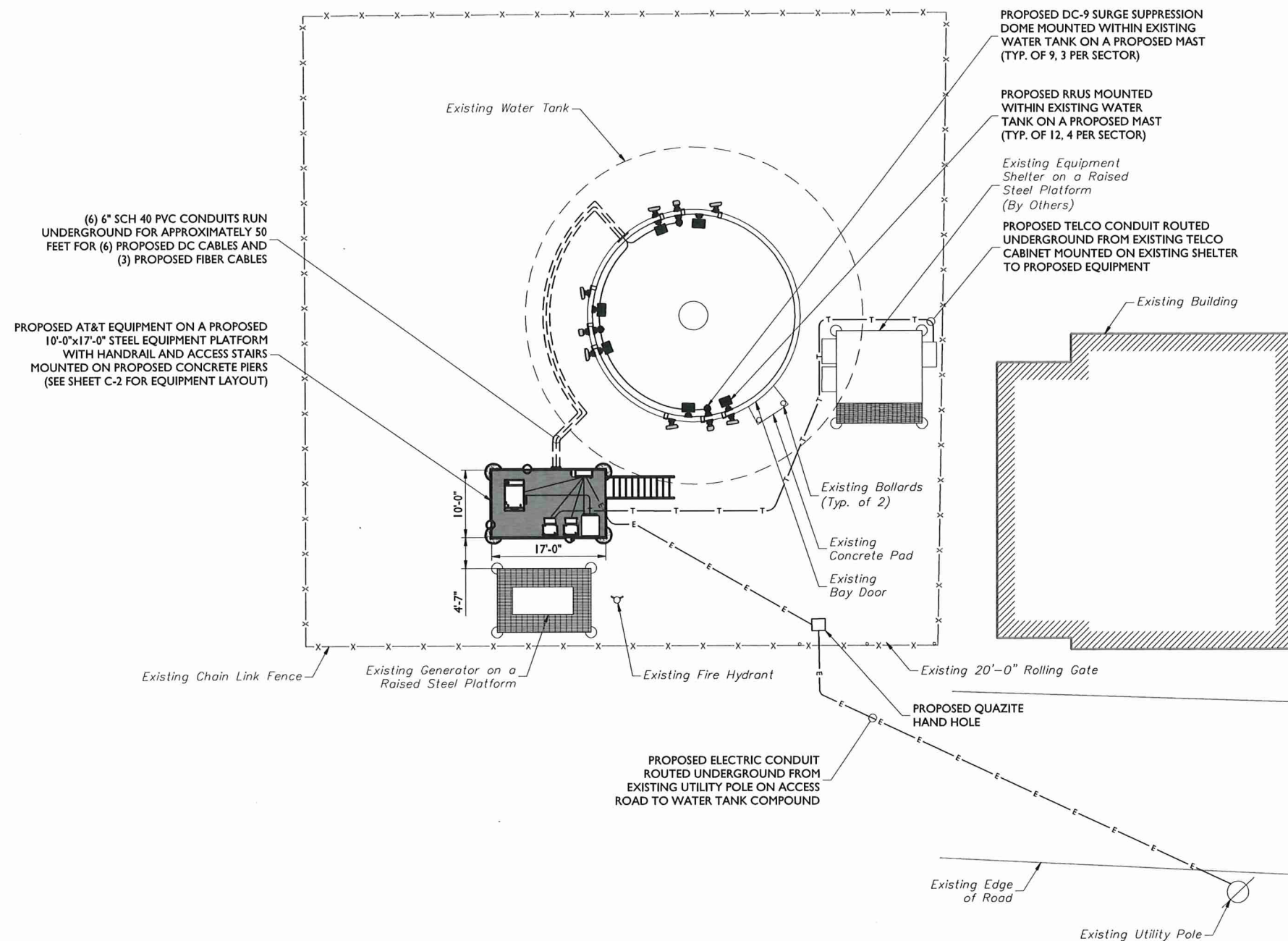
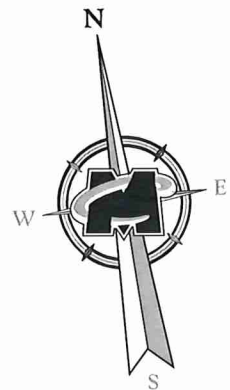
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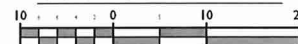
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SHEET TITLE:	SITE PLAN
SHEET NUMBER:	Z-2

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COMPOUND PLAN



SCALE : 1" = 10' FOR 22"x34"
(SCALE : 1" = 20' FOR 11"x17")



SCALE	AS SHOWN	JOB NUMBER	18946080A
10	04/05/21	ISSUED FOR CONSTRUCTION	MBJ MPC
9	03/18/21	ISSUED FOR CONSTRUCTION	MBJ MPC
8	11/11/20	ISSUED FOR CONSTRUCTION	MPC PET
7	09/30/20	REVISED PER COMMENTS	AMN MPC
6	01/22/20	REVISED PER COMMENTS	NIL PET
5	08/09/19	FOR CONSTRUCTION	AJCR/MCP LJ
4	05/07/19	REVISED PER COMMENTS	JJR LJ
3	04/02/19	REVISED PER COMMENTS	MBJ RA
REV	DATE	DRAWN	CHECKED BY



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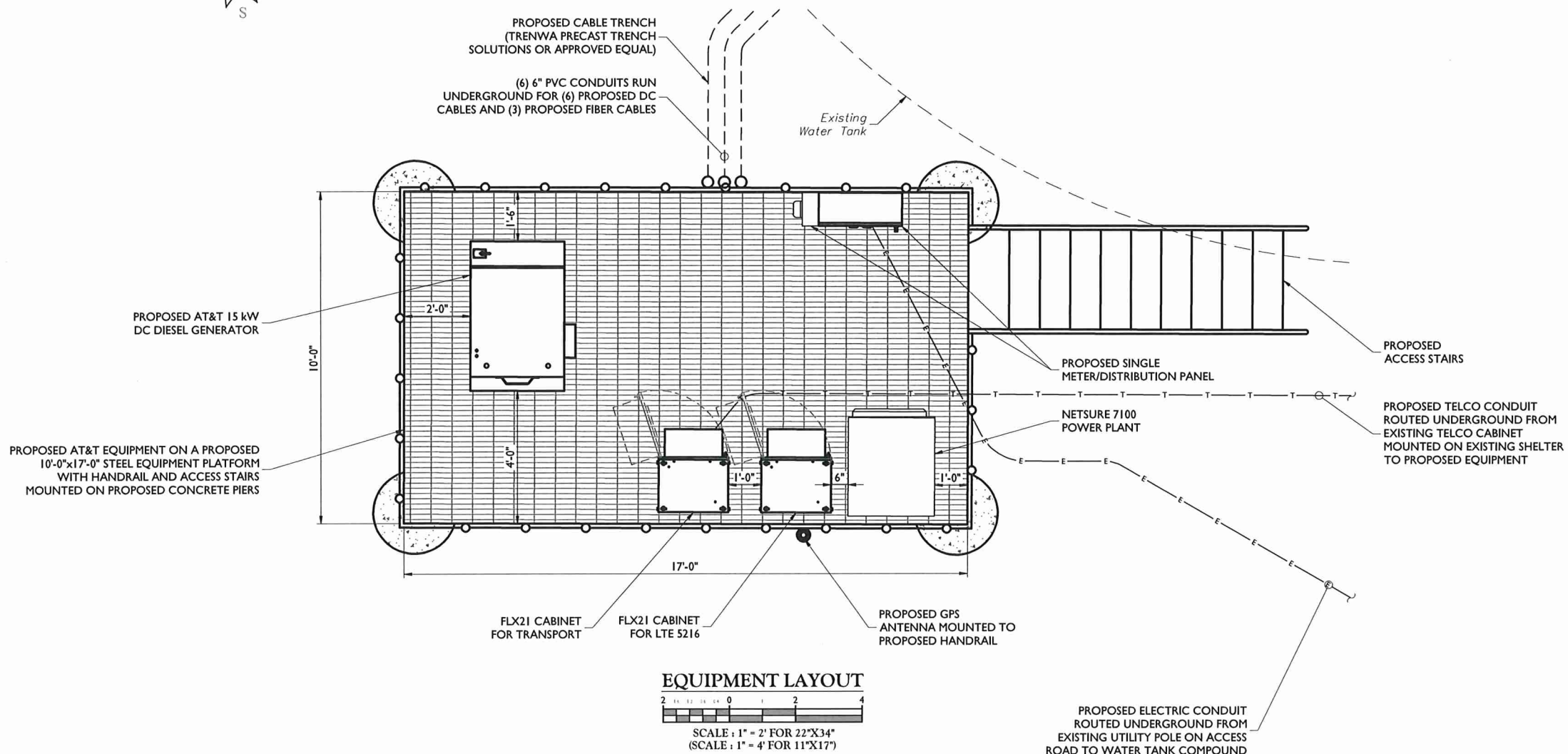
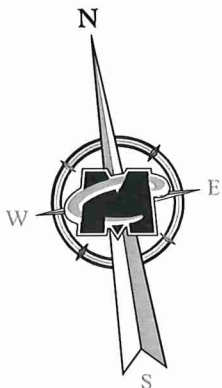
SITE NAME:
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SITE# MA2521S
91 NORTH BLVD
SALISBURY, MA 01952
ESSEX COUNTY



SHEET TITLE:
COMPOUND PLAN

SHEET NUMBER:
C-1

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REV	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10	04/05/21		ISSUED FOR CONSTRUCTION		MJB	MPC
9	03/18/21		ISSUED FOR CONSTRUCTION		MJB	MPC
8	11/11/20		ISSUED FOR CONSTRUCTION		MPC	PET
7	09/30/20		REVISED PER COMMENTS		AMH	MPC
6	01/22/20		REVISED PER COMMENTS		NL	PET
5	08/09/19		FOR CONSTRUCTION		AJC/MCP	UJ
4	05/07/19		REVISED PER COMMENTS		JSR	UJ
3	04/02/19		REVISED PER COMMENTS		MJB	RA



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

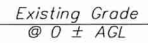
MT. LAUREL OFFICE
2000 Midantic Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
EQUIPMENT LAYOUT

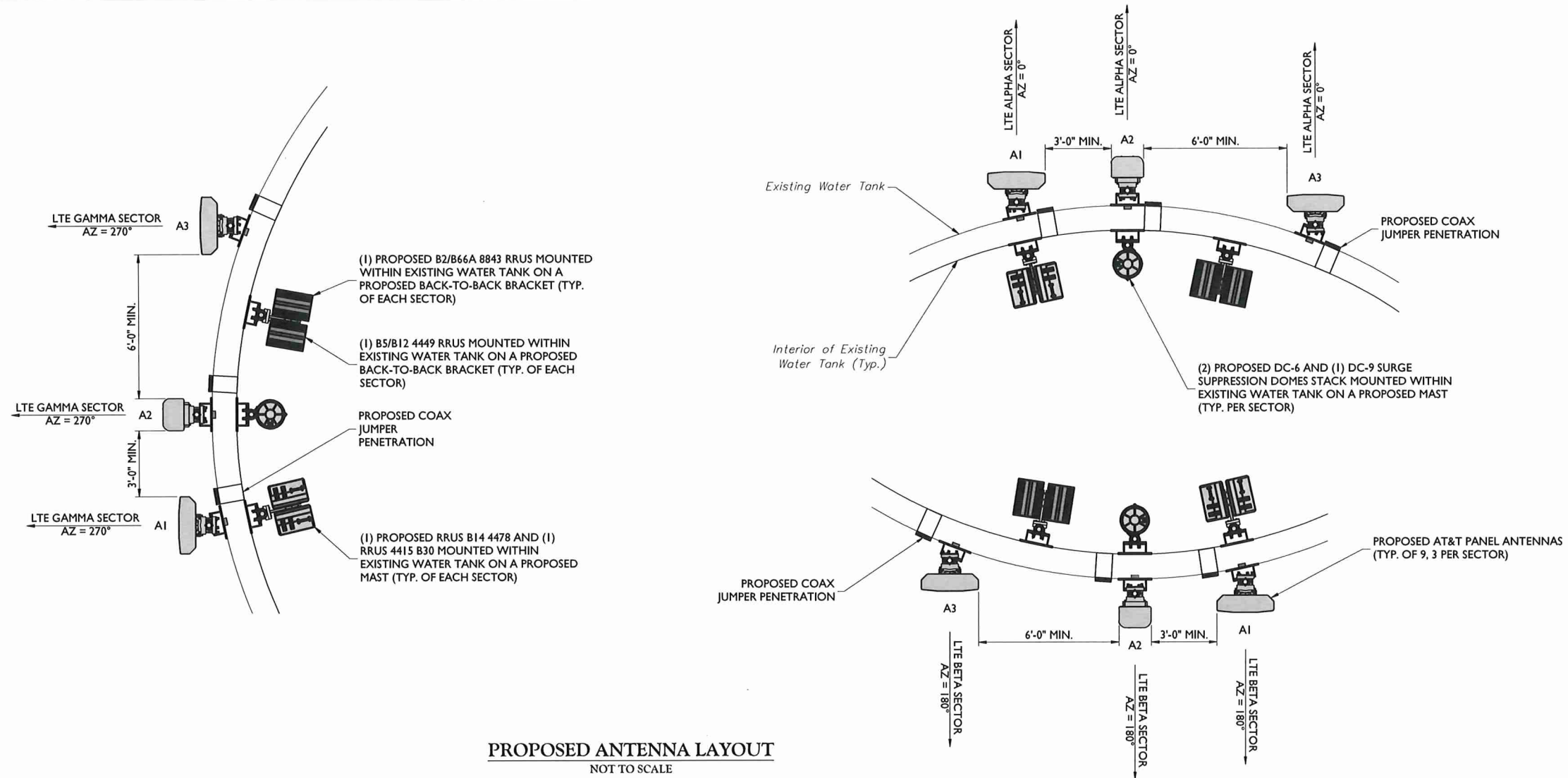
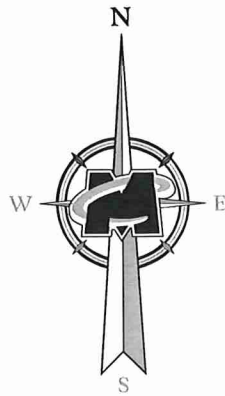
SHEET NUMBER:
C-2



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



PROPOSED ANTENNA LAYOUT
NOT TO SCALE

ANTENNA SCHEDULE															
SECTOR		PROPOSED ANTENNA	TECHNOLOGY	ANTENNA STATUS	HEIGHT (in)	WIDTH (in)	DEPTH (in)	WEIGHT (lbs)	ANTENNA AZIMUTH (DEG.)	ANT. CL. ELEV. (ft.)	REMOTE RADIO/TMA CONFIGURATION	TRANSMISSION CABLE			
												QUANTITY	LENGTH	TYPE	STATUS
Alpha	1	KMW	LTE	PROPOSED	96.00	21.00	6.30	95.40	0°	90'	(1) RRUS B14 4478	1 2	200'	FIBER DC	PROPOSED PROPOSED
		EPBQ-654L8H8-L2													
	2	CCI	LTE	PROPOSED	96.00	11.70	7.60	71.60	0°	90'	(1) RRUS 4415 B30	-	-	-	-
		HPA65R-BU8A													
	3	KMW	LTE	PROPOSED	96.00	21.00	6.30	95.40	0°	90'	(1) RRUS B2/B66A 8843 (1) RRUS B5/B12 4449	-	-	-	-
		EPBQ-654L8H8-L2													
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-														
Beta	1	KMW	LTE	PROPOSED	96.00	21.00	6.30	95.40	180°	90'	(1) RRUS B14 4478	1 2	200'	FIBER DC	PROPOSED PROPOSED
		EPBQ-654L8H8-L2													
	2	CCI	LTE	PROPOSED	96.00	11.70	7.60	71.60	180°	90'	(1) RRUS 4415 B30	-	-	-	-
		HPA65R-BU8A													
	3	KMW	LTE	PROPOSED	96.00	21.00	6.30	95.40	180°	90'	(1) RRUS B2/B66A 8843 (1) RRUS B5/B12 4449	-	-	-	-
		EPBQ-654L8H8-L2													
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-														
Gamma	1	KMW	LTE	PROPOSED	96.00	21.00	6.30	95.40	270°	90'	(1) RRUS B14 4478	1 2	200'	FIBER DC	PROPOSED PROPOSED
		EPBQ-654L8H8-L2													
	2	CCI	LTE	PROPOSED	96.00	11.70	7.60	71.60	270°	90'	(1) RRUS 4415 B30	-	-	-	-
		HPA65R-BU8A													
	3	KMW	LTE	PROPOSED	96.00	21.00	6.30	95.40	270°	90'	(1) RRUS B2/B66A 8843 (1) RRUS B5/B12 4449	-	-	-	-
		EPBQ-654L8H8-L2													
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-														
GPS	1	-	-	-	-	-	-	-	-	-	-	1	-	1/2" COAX	REMAIN
	2	-	-	-	-	-	-	-	-	-	-	1	-	1/2" COAX	REMAIN

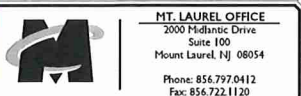


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10	04/05/21	ISSUED FOR CONSTRUCTION	HJB HPC
9	03/18/21	ISSUED FOR CONSTRUCTION	HJB HPC
8	11/11/20	ISSUED FOR CONSTRUCTION	HPC PET
7	09/30/20	REVISED PER COMMENTS	ANH HPC
6	01/23/20	REVISED PER COMMENTS	NL PET
5	08/09/19	FOR CONSTRUCTION	AJC/HCP LJ
4	05/07/19	REVISED PER COMMENTS	JBR LJ
3	04/02/19	REVISED PER COMMENTS	HJB RA
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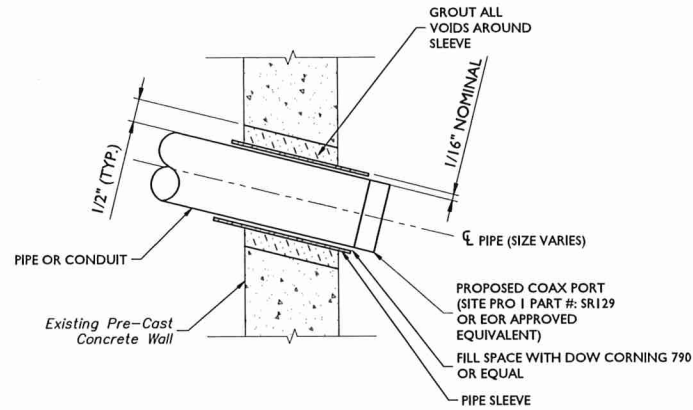
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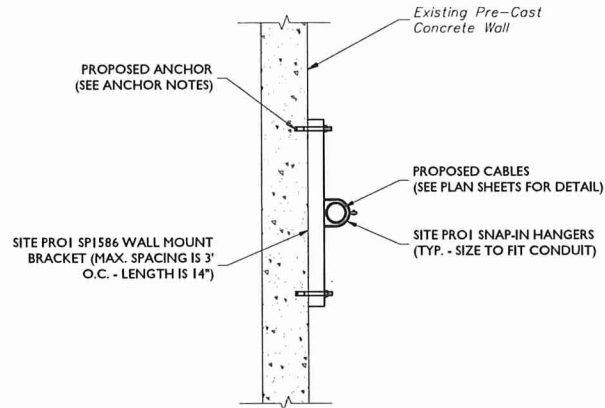


SHEET TITLE:
ANTENNA LAYOUT AND
ANTENNA SCHEDULE

SHEET NUMBER:
C-4



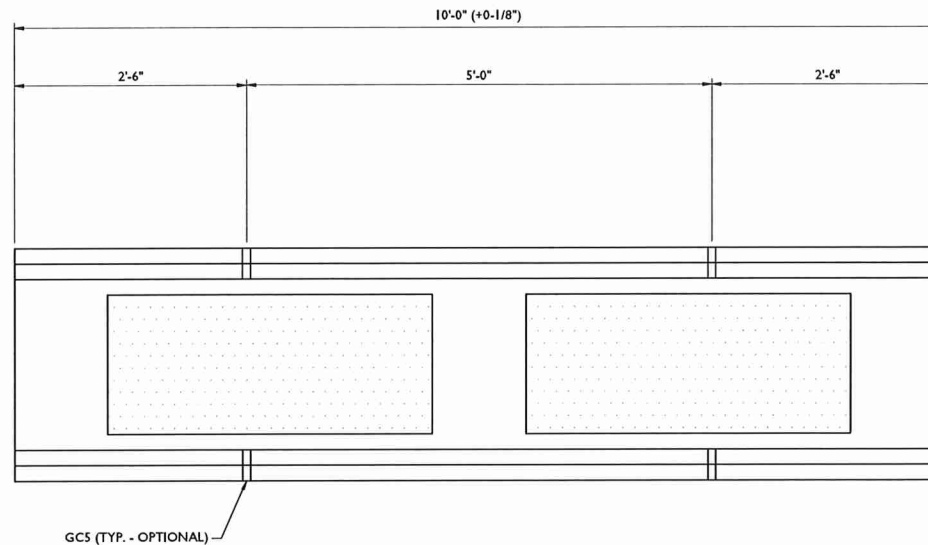
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(CONCRETE WALL SIMILAR)**
NOT TO SCALE



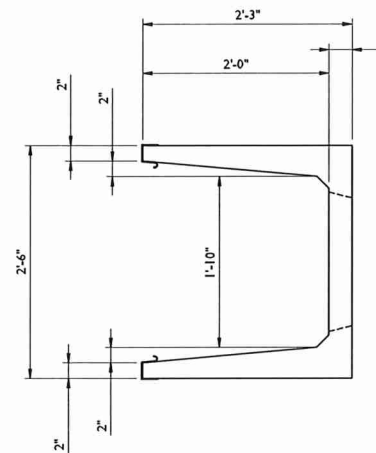
**VERTICAL AND HORIZONTAL
CABLE ROUTING**
NOT TO SCALE

ANCHOR NOTES:

- CONTRACTOR SHALL VERIFY CONSTRUCTION AND CONDITION OF EXISTING STRUCTURE PRIOR TO INSTALLATION OF ANCHORS. IF ANCHORS ARE UNABLE TO BE INSTALLED AS SHOWN OR DESCRIBED BELOW, OR THE EXISTING STRUCTURE IS CRACKED, DETERIORATED OR MISSING BASE MATERIAL SECTIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- ANCHORS SHALL BE INSTALLED PER MANUFACTURE'S WRITTEN SPECIFICATIONS. ANCHORS SHALL NOT BE INSTALLED WITHIN OR NEAR MORTAR AREAS.
- ANCHORS SHALL BE INSTALLED IN THE CENTER OF BRICK.
- THROUGH BOLTING, IF POSSIBLE, SHALL BE UTILIZED AS THE PRIMARY ANCHORING METHOD:
 - 5/8"Ø A36/A307 THREADED ROD W/ NUTS AND OVERSIZED WASHERS
- ADHESIVE ANCHORS/FASTENERS REQUIREMENTS:
 - CONCRETE
 - (MINIMUM CONCRETE THICKNESS = 7 3/8"):
 - HILTI HY200 WITH 5/8"Ø HIT-Z(-R) RODS AND OVERSIZED WASHER
 - MASONRY
 - GROUT FILLED CMU:
 - 5/8" Ø THREADED ROD WITH HILTI HIT-HY 270 ADHESIVE
 - 5-5/8" EFFECTIVE EMBEDMENT
 - 4" MINIMUM SPACING BETWEEN ANCHORS
 - 4" MINIMUM EDGE DISTANCE
 - HOLLOW CMU:
 - HIT-IC 1/2X2 INSERT WITH HIT-HY 270 ADHESIVE AND OVERSIZED WASHER
 - 2" EFFECTIVE EMBEDMENT
 - 4" MINIMUM SPACING BETWEEN ANCHORS, MAXIMUM TWO (2) ANCHORS PER HOLLOW CELL
 - 4" MINIMUM EDGE DISTANCE
 - HOLLOW BRICK:
 - HIT-IC 1/2X3-3/16 INSERT WITH HIT-HY 270 ADHESIVE AND OVERSIZED WASHER
 - 3-1/8" EFFECTIVE EMBEDMENT
 - 8" MINIMUM SPACING BETWEEN ANCHORS, MAXIMUM ONE (1) ANCHOR PER BRICK
 - 6" MINIMUM EDGE DISTANCE
 - MULTI-WYTHE SOLID BRICK (MINIMUM 13" THICK WALL OR REPRESENTING 3 WYTHES OF BRICK):
 - 5/8"Ø THREADED ROD WITH HILTI HIT-HY 270 WITH OVERSIZED WASHER
 - 6" MINIMUM EMBEDMENT
 - 16" MINIMUM SPACING BETWEEN ANCHORS, MAXIMUM ONE (1) ANCHOR PER BRICK
 - 16" MINIMUM EDGE DISTANCE



WEIGHT: 2047 LBS
TIER 15 RATED
TRENWA PRECAST TRENCH
SOLUTIONS P/N: BM2424-120
CABLE TRENCH DETAIL
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AS SHOWN		18946080A	
10	04/05/21	ISSUED FOR CONSTRUCTION	MJB MPC
9	03/18/21	ISSUED FOR CONSTRUCTION	MJB MPC
8	11/11/20	ISSUED FOR CONSTRUCTION	MPC PET
7	09/30/20	REVISED PER COMMENTS	ANN MPC
6	01/22/20	REVISED PER COMMENTS	NL PET
5	08/09/19	FOR CONSTRUCTION	AJCMPC UJ
4	05/07/19	REVISED PER COMMENTS	JJR UJ
3	04/02/19	REVISED PER COMMENTS	MJB RA
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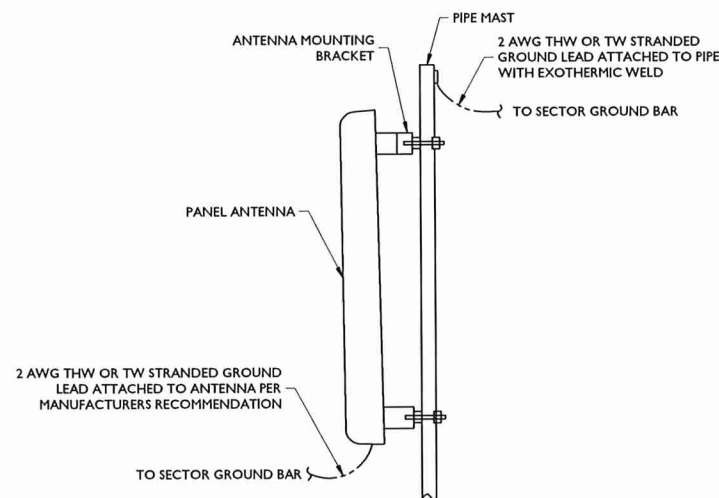
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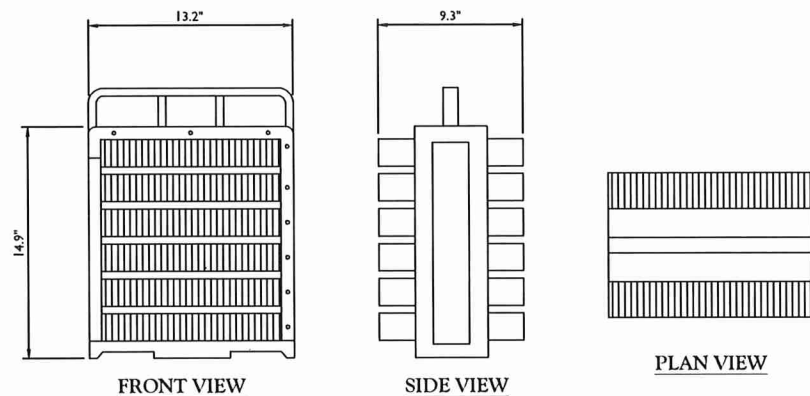
SHEET TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
A-1

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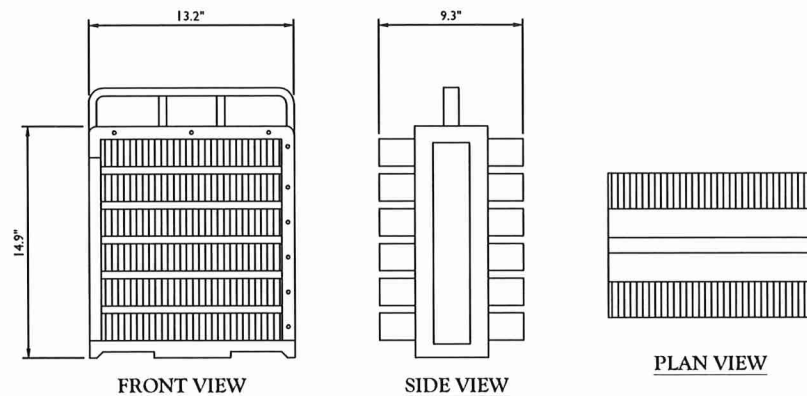


ANTENNA MOUNTING DETAIL
NOT TO SCALE



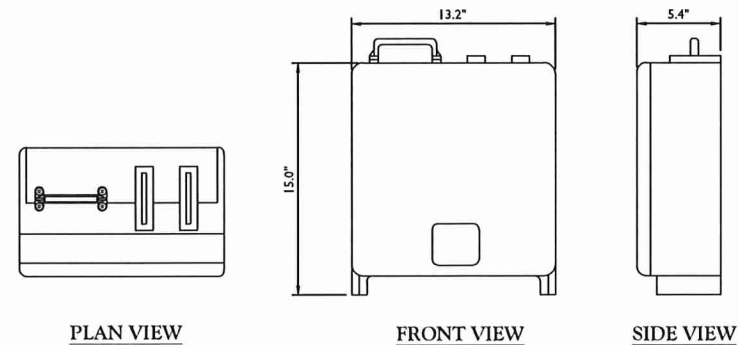
WEIGHT = 72 LBS W/O MOUNTING HARDWARE
DIMENSIONS (H X W X D): 14.9"H X 13.2"W X 9.3" (INCLUDES SUNSHIELD AND DOUBLE FILTER CHASSIS)
WEIGHT: 91.5 LBS

**ERICSSON DUAL BAND
RRUS 8843 B2/B66A DETAIL**
NOT TO SCALE

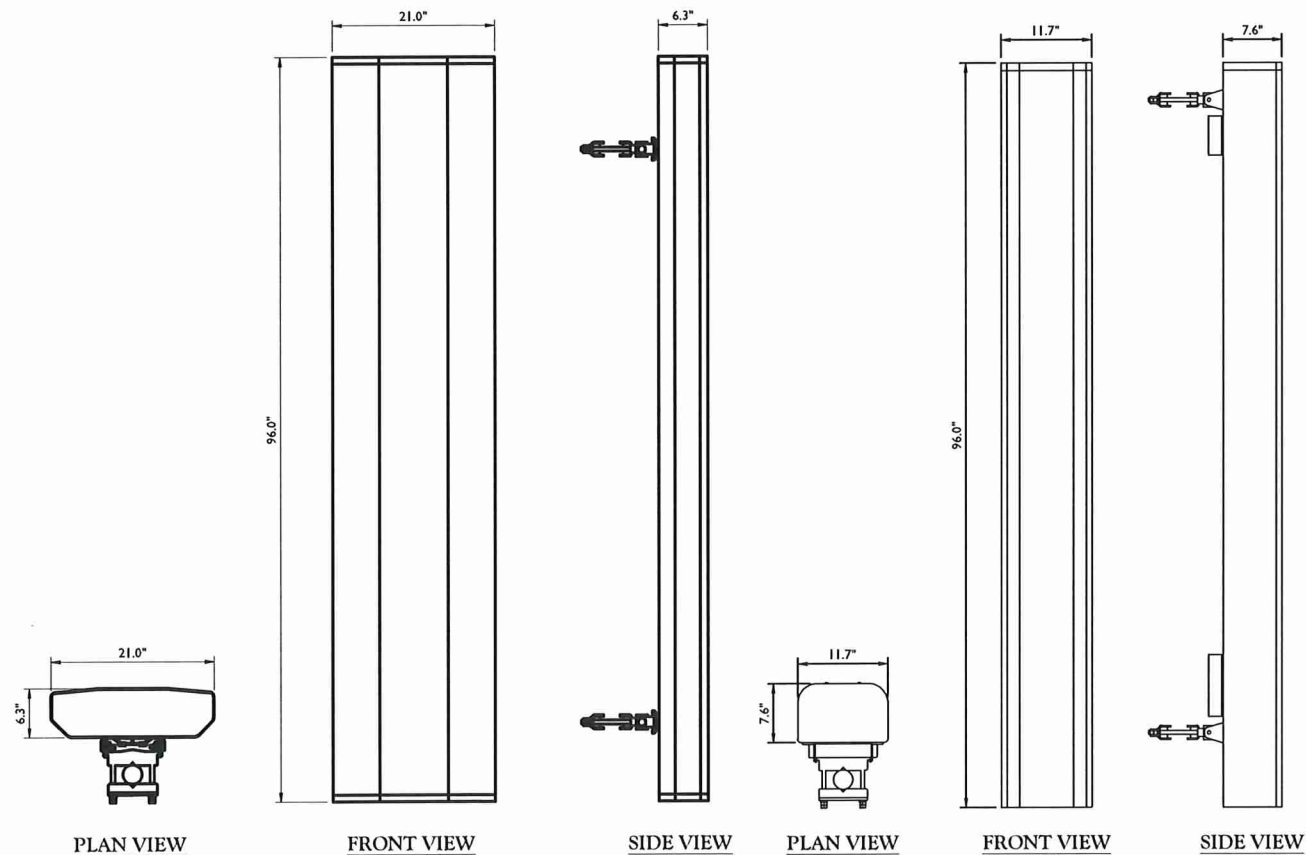


WEIGHT = 78 LBS W/O MOUNTING HARDWARE
DIMENSIONS (H X W X D): 14.9"H X 13.2"W X 9.3" (INCLUDES SUNSHIELD AND DOUBLE FILTER CHASSIS)
WEIGHT: 91.5 LBS

**ERICSSON DUAL BAND
RRU-4449 B12+B71 DETAIL**
NOT TO SCALE

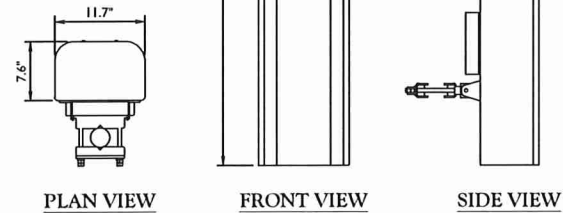


WEIGHT INCLUDES SUNSHIELD = 44 LBS
ERICSSON RRUS 4415 B30
NOT TO SCALE



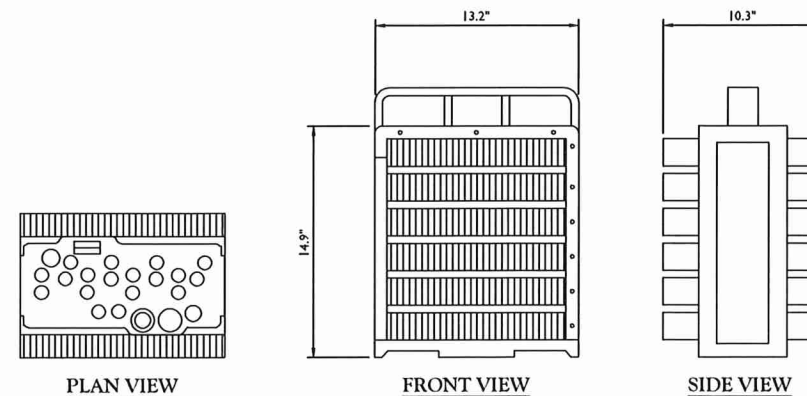
WEIGHT WITHOUT MOUNTING BRACKET = 86 LBS
WEIGHT WITH MOUNTING BRACKET = 95.4 LBS

KMW EPBQ-654L8H8-L2
NOT TO SCALE



WEIGHT WITHOUT MOUNTING BRACKET = 54 LBS
WEIGHT WITH MOUNTING BRACKET = 66.6 LBS

CCI HPA65R-BU8A ANTENNA
NOT TO SCALE



WEIGHT INCLUDES SUNSHIELD = 72 LBS
ERICSSON RRUS 4478 B14
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10	04/05/21	ISSUED FOR CONSTRUCTION	MJB MPC
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8	11/11/20	ISSUED FOR CONSTRUCTION	MPC PET
7	09/30/20	REVISED PER COMMENTS	ANM MPC
6	01/22/20	REVISED PER COMMENTS	RL PET
5	08/09/19	FOR CONSTRUCTION	AJCRPC LJ
4	05/07/19	REVISED PER COMMENTS	JR LJ
3	04/02/19	REVISED PER COMMENTS	MJB RA
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Fax: 856.722.1120

CONSTRUCTION DETAILS

A-2



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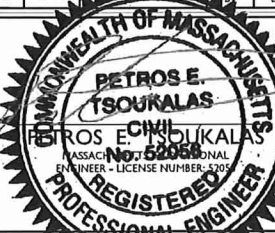


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9	03/01/21	ISSUED FOR CONSTRUCTION	MSB	M
8	11/11/20	ISSUED FOR CONSTRUCTION	MPC	F
7	09/30/20	REVISED PER COMMENTS	AWH	M
6	01/22/20	REVISED PER COMMENTS	NL	F
5	08/09/19	FOR CONSTRUCTION	AJC/MCP	
4	05/07/19	REVISED PER COMMENTS	JBR	
3	04/02/19	REVISED PER COMMENTS	MSB	F
REV	DATE			DRAWN



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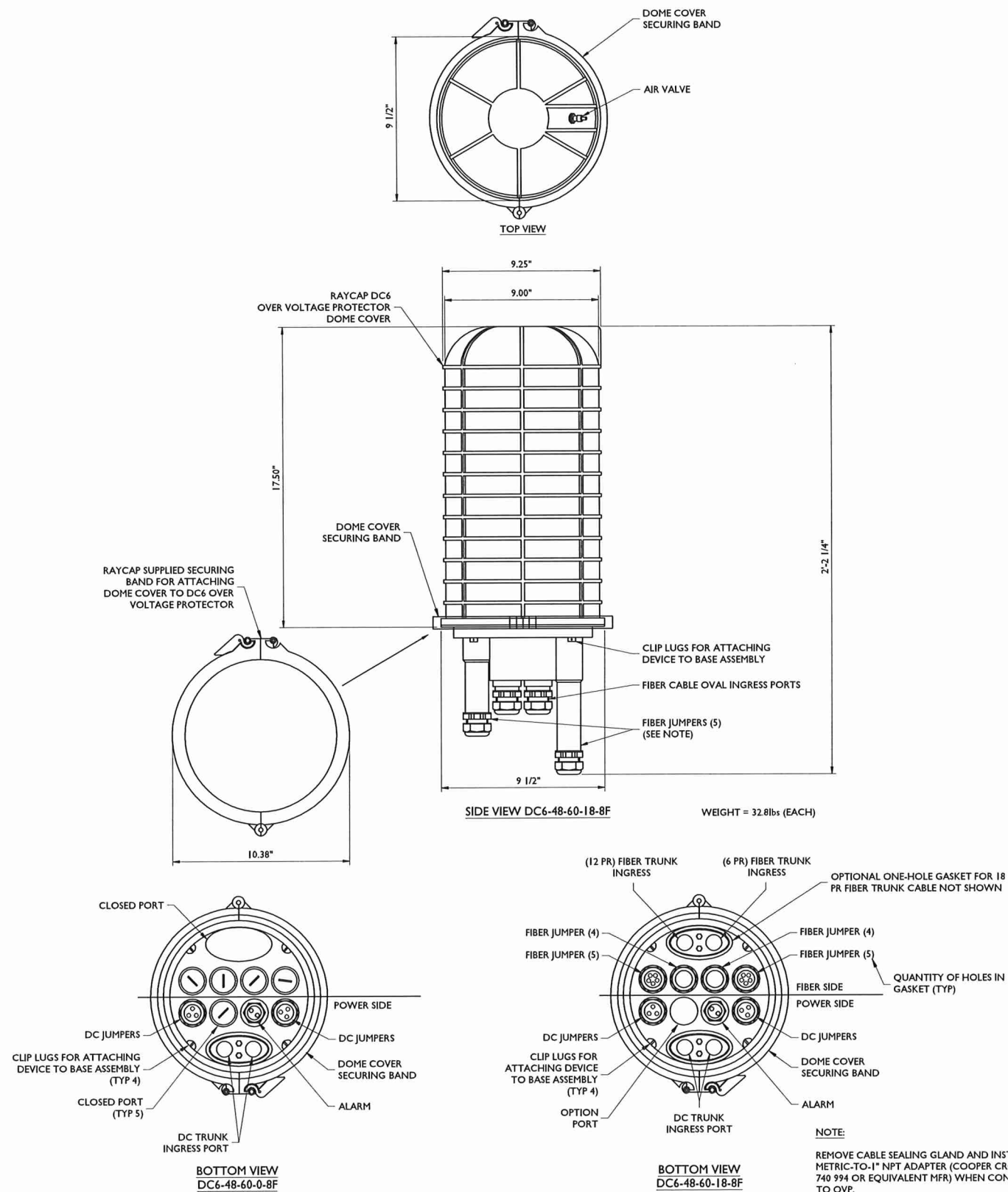
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SHEET TITLE:

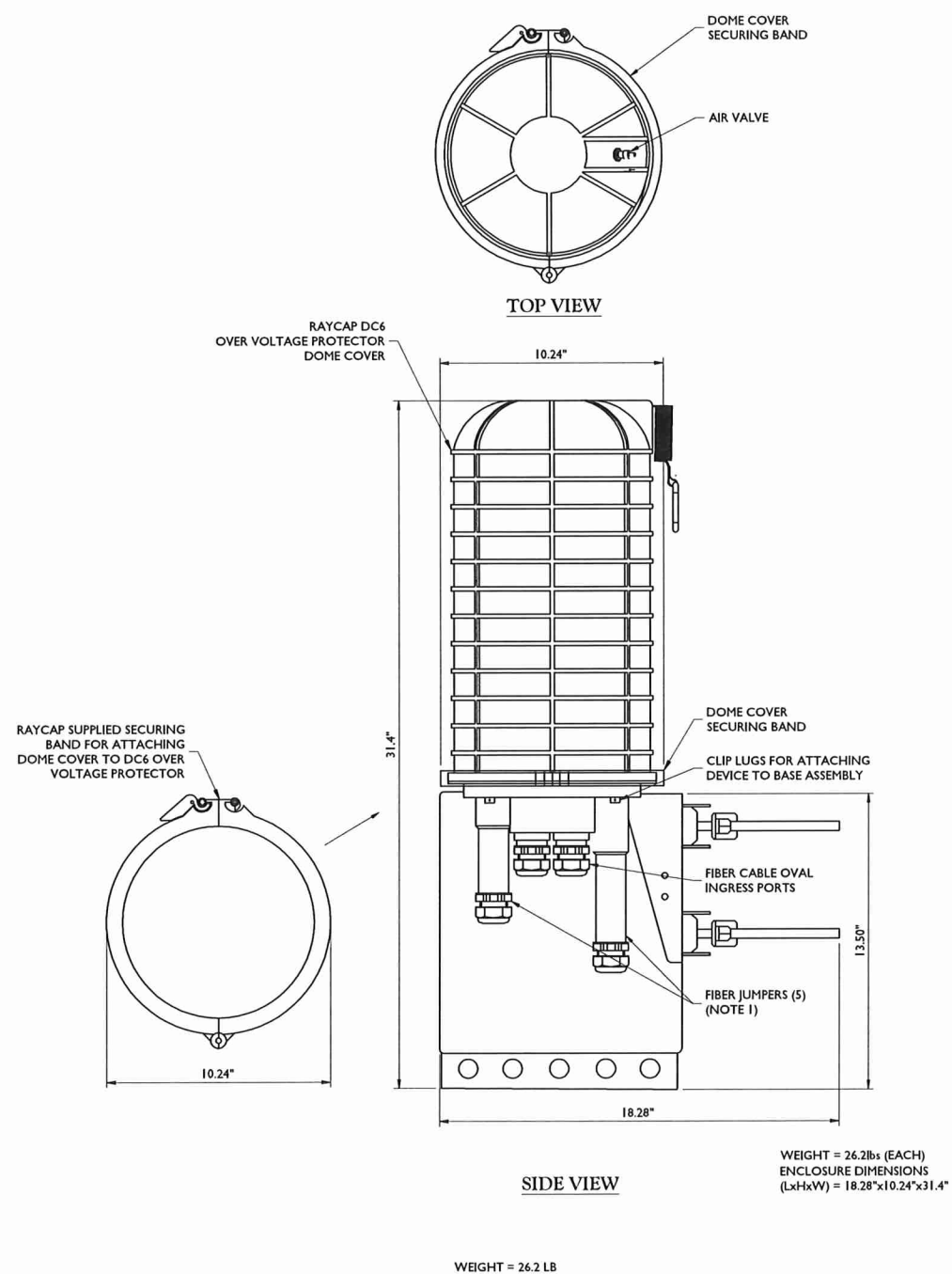
CONSTRUCTION DETAILS

SHEET NUMBER : **A-3**



DC6 SURGE SUPPRESSION DOME DETAIL

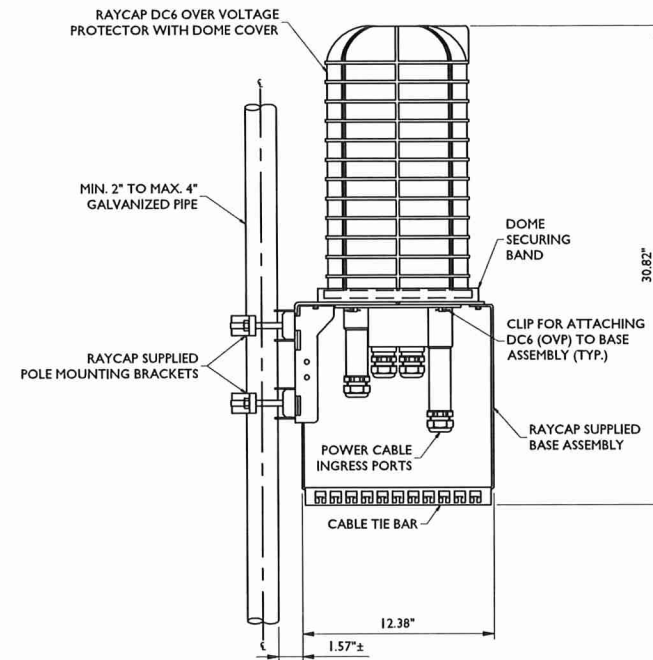
NOT TO SCALE



DC9-48-60-24-8C-EV SURGE SUPPRESSION DOME
NOT TO SCALE

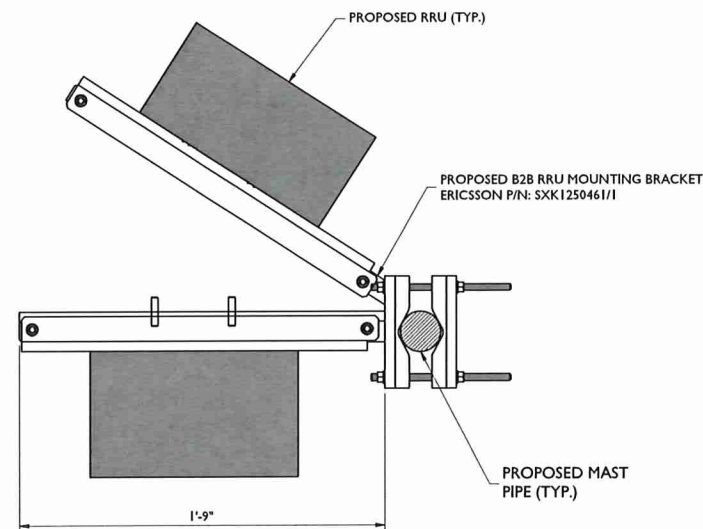
RECEIVED
APR 08 2021
TOWN OF SALISBURY
PLANNING DEPT

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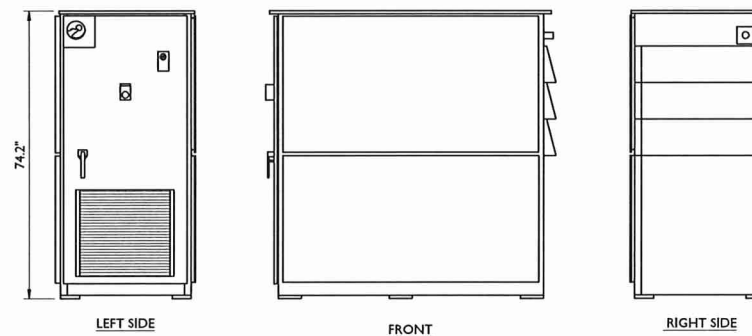
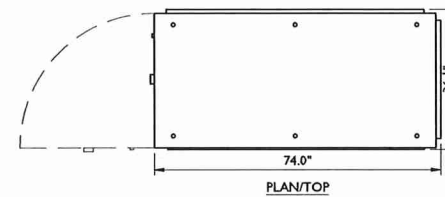


NOTES:
RAYCAP VIA AT&T SUPPLIES THE DC6 OVER VOLTAGE PROTECTOR AND PIPE MOUNTING BRACKETS. SUBCONTRACTOR SHALL SUPPLY THE PIPE.

**DC6 SURGE SUPPRESSION DOME
POLE MOUNT ASSEMBLY**
NOT TO SCALE



RRUS PIPE MOUNTING DETAIL
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POLAR POWER INC. 15KW DIESEL 54 GALLON GENERATOR
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7	09/30/20	REVISED PER COMMENTS	AHRI HPC
6	01/22/20	REVISED PER COMMENTS	HL PET
5	08/01/19	FOR CONSTRUCTION	AJC/MCP LJ
4	05/07/19	REVISED PER COMMENTS	JR LJ
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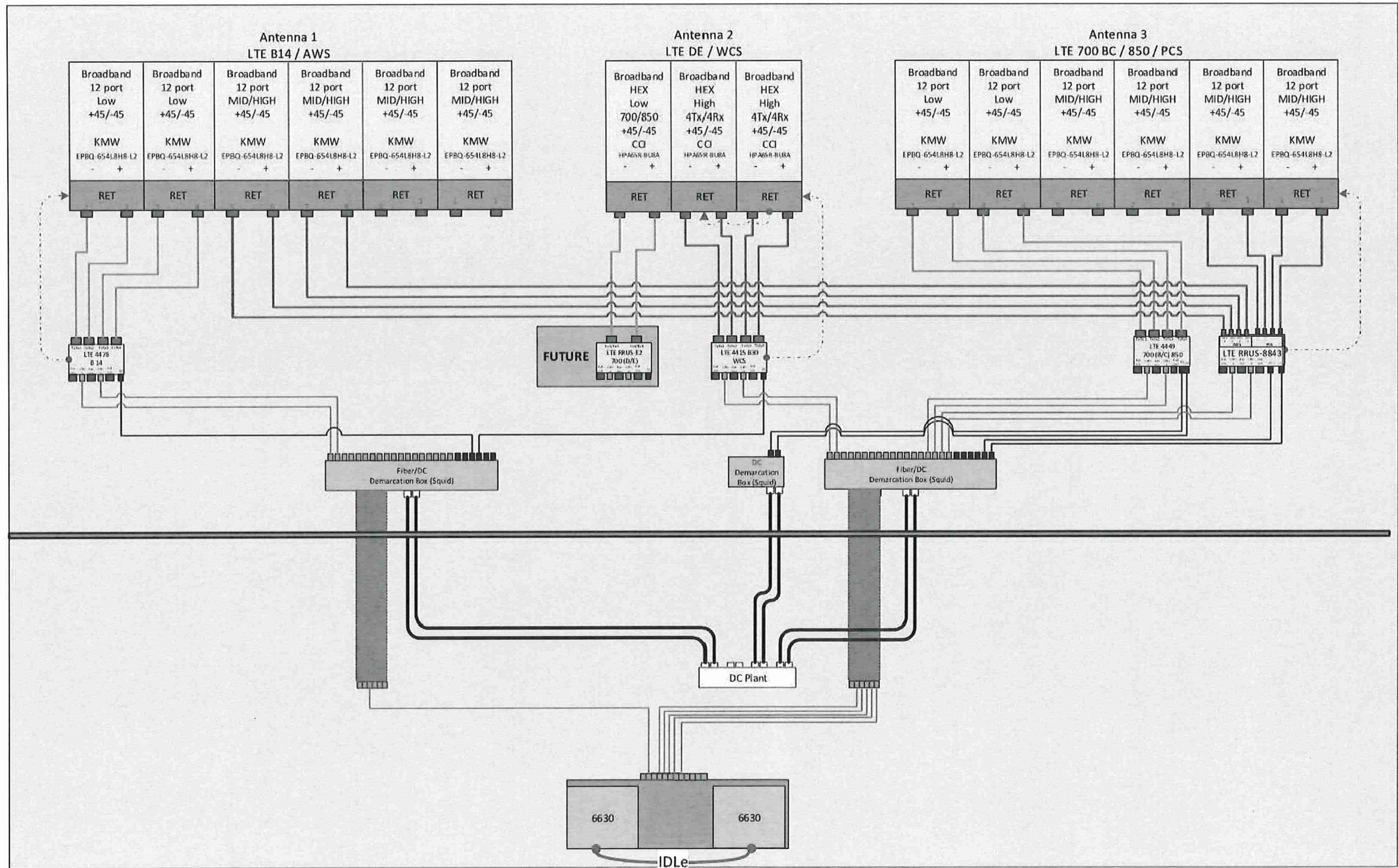
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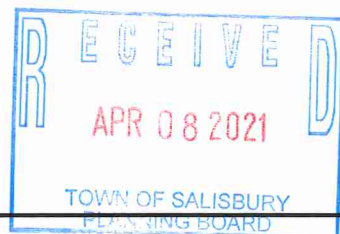
SHEET FOURTEER:
A-4





BASED ON: RF ENGINEERING DESIGN ENTITLED "NEW-ENGLAND_BOSTON_MA2521_2020-New-Site_New_ra9161_2101A0L9KF_13017921_219117_09-12-2018_Preliminary-In-Progress_v3.00", LAST REVISED ON 04/20/2019

RF PLUMBING DIAGRAM

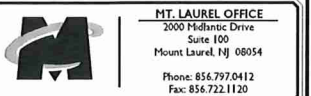


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9	03/18/21	ISSUED FOR CONSTRUCTION	FJB MPC
8	11/11/20	ISSUED FOR CONSTRUCTION	FJB PET
7	09/30/20	REVISED PER COMMENTS	ANM MPC
6	01/23/20	REVISED PER COMMENTS	NL PET
5	08/09/19	FOR CONSTRUCTION	AJCMCP U
4	05/07/19	REVISED PER COMMENTS	JR U
3	04/02/19	REVISED PER COMMENTS	FJB RA
REV	DATE	DESCRIPTION	DRAWN CHECKED BY



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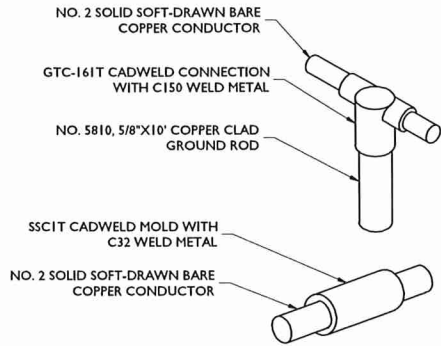
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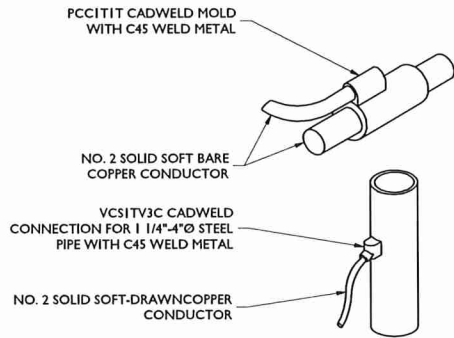
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RF PLUMBING DIAGRAMS

SHEET NUMBER:
A-5

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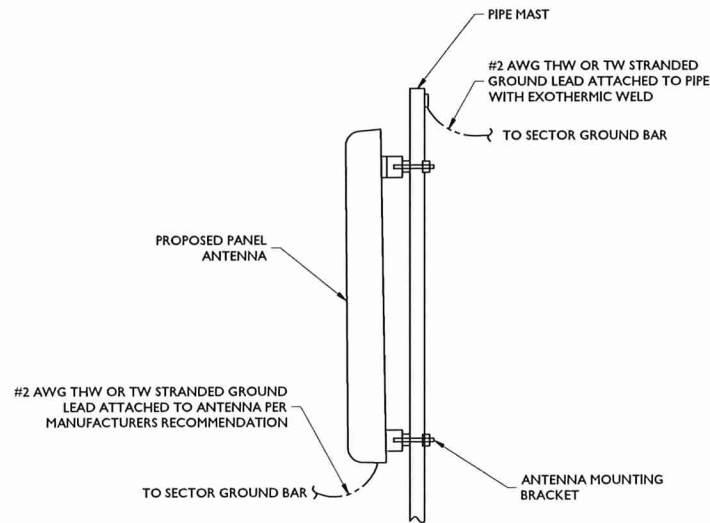


CADWELD DETAILS
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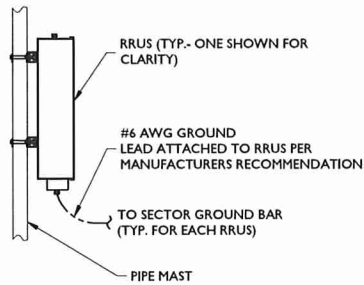


GROUNDING NOTES:

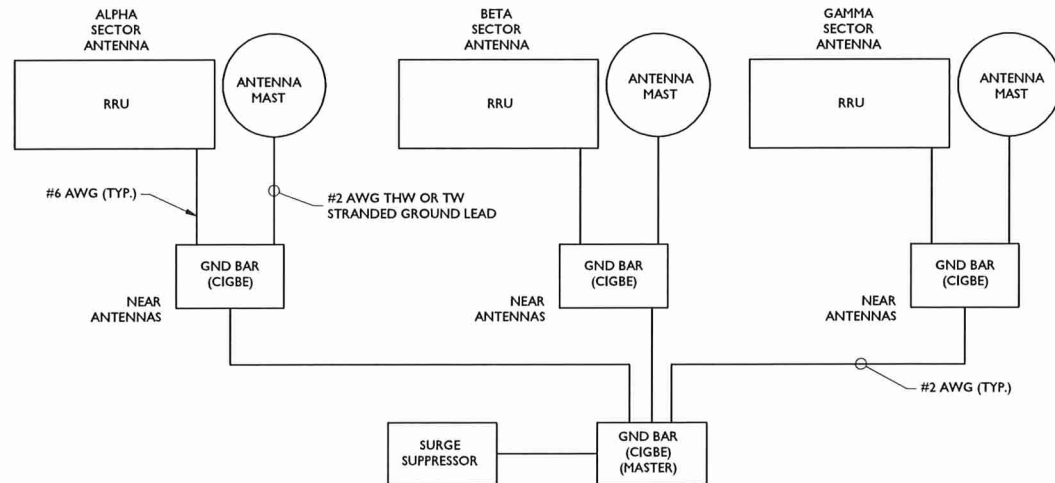
- ALL DOWN CONDUCTORS AND GROUND RING CONDUCTOR SHALL BE #2 AWG, SOLID, BARE, TINNED COPPER, UNLESS OTHERWISE NOTED. ALL CONNECTIONS TO GROUND RING SHALL BE EXOTHERMICALLY WELDED. CONDUCTOR SHALL BE AT A MINIMUM DEPTH BELOW GRADE OF 36 INCHES OR TO LEDGE. MINIMUM BEND RADIUS SHALL BE 8 INCHES. CONDUCTOR 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.



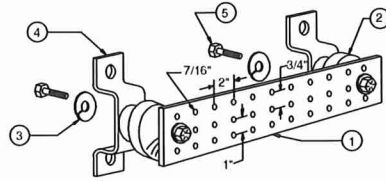
ANTENNA GROUNDING



RRU GROUNDING
NOT TO SCALE



SCHEMATIC DIAGRAM GROUNDING SYSTEM



LEGEND

- TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO. CAT. NO. 8-6142 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.

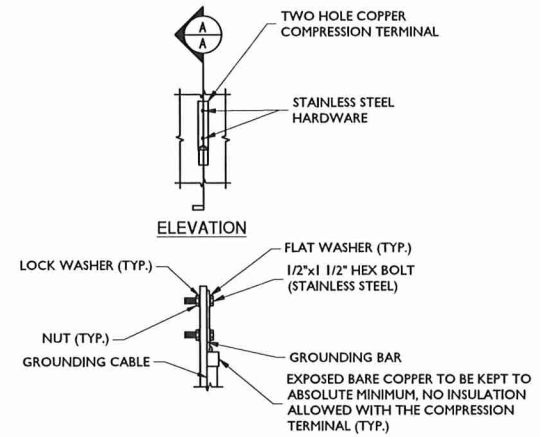
SECTION "P" - SURGE PRODUCERS

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.

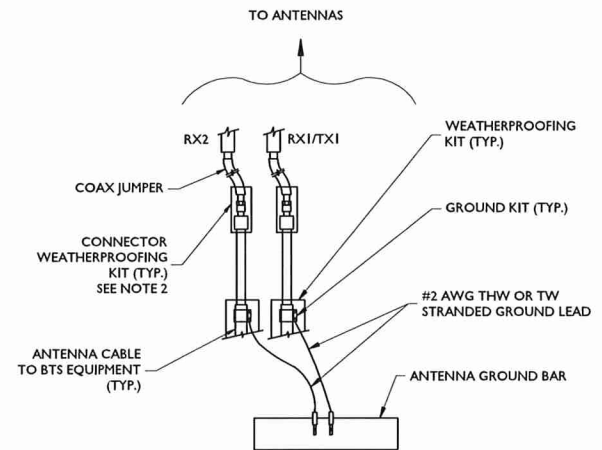
SECTION "A" - SURGE ABSORBERS

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



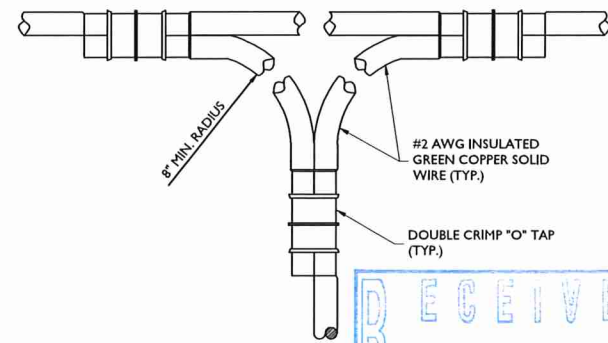
TYPICAL GROUND BAR CONNECTION DETAIL
NOT TO SCALE



NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

TYPICAL GROUND WIRE TO GROUNDING BAR
NOT TO SCALE



GROUND TO HALO
NOT TO SCALE

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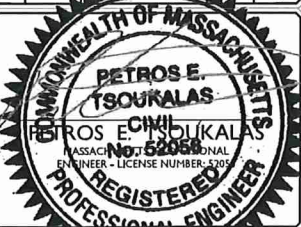
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6	01/23/20	REVISED PER COMMENTS	NL PET
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4	05/07/19	REVISED PER COMMENTS	JR LJ
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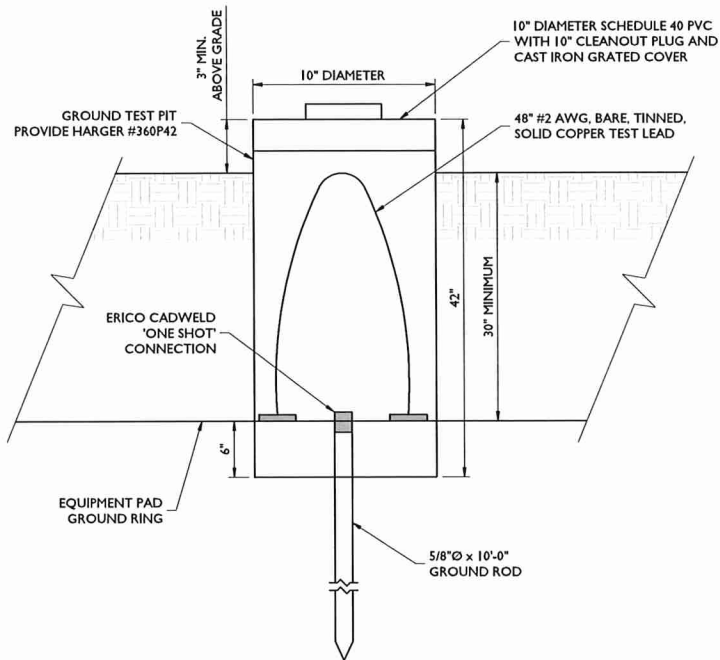
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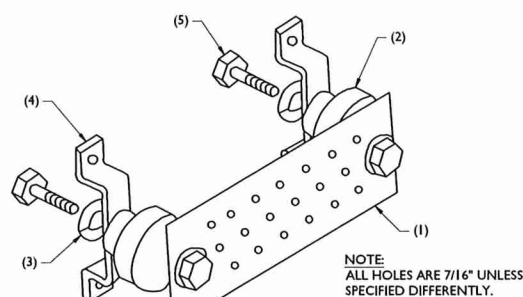
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GROUNDING DETAILS AND NOTES

G-1

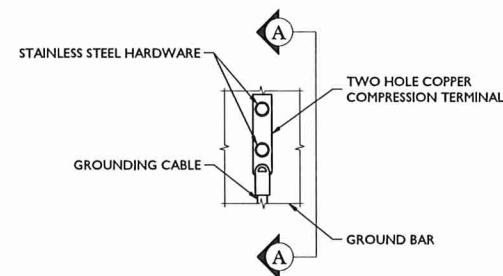
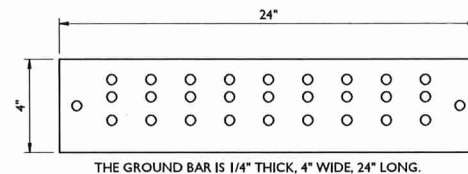


GROUND TEST PIT DETAIL
NOT TO SCALE

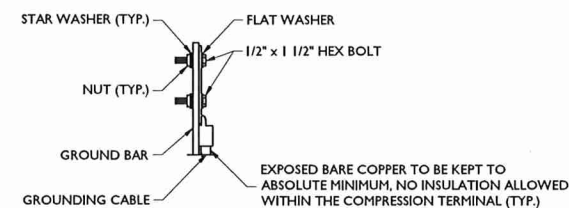


- LEGEND:**
1. GALVANIZED STEEL GROUND BAR, 1/4"x4"x24", TESSCO P/N GSLBC-0424-NH. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 2. STANDOFF INSULATORS, HARGER LIGHTNING PROTECTION, INC. CAT. NO. 5263-A8
 3. 1/2" LOCKWASHERS, HARGO CO. CAT. NO. LWB5.
 4. WALL MOUNTING STAINLESS STEEL MOUNTING BRACKET, HARGER CAT. NO. WBKT-I.
 5. 1/2-13 x 1" HEX HEAD CAP SCREW, HARGER, CAT. NO. CS885.

GROUND BAR DETAIL
NOT TO SCALE

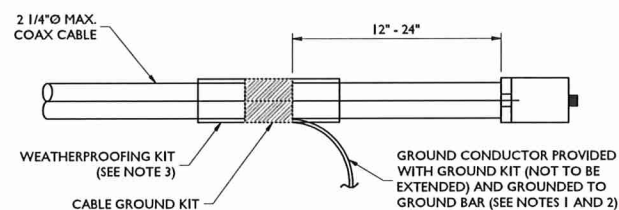


ELEVATION VIEW

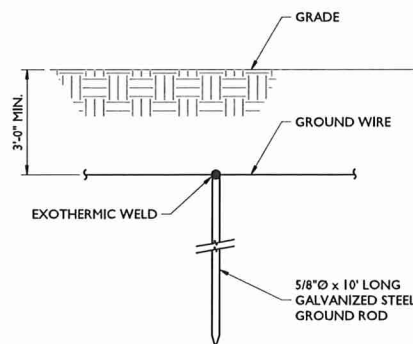


SECTION "A-A"

TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL
NOT TO SCALE



CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE
NOT TO SCALE



GROUND ROD DETAIL
NOT TO SCALE

- | | |
|----------------|------------|
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8	11/11/20	ISSUED FOR CONSTRUCTION	MPC PET
7	09/30/20	REVISED PER COMMENTS	APN MPC
6	01/22/20	REVISED PER COMMENTS	TAL PET
5	08/09/19	FOR CONSTRUCTION	AJC/MCP LJ
4	05/07/19	REVISED PER COMMENTS	JSR LJ
3	04/02/19	REVISED PER COMMENTS	HJB RA
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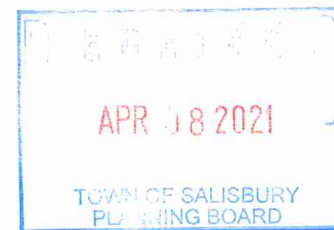
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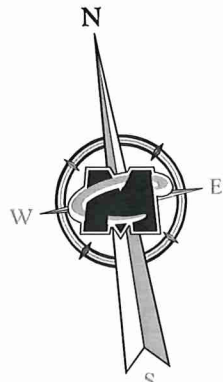
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SHEET TITLE:
GROUNDING DETAILS

SHEET NUMBER:
G-2





CONNECT PROPOSED EQUIPMENT GROUND RING TO PROPOSED PLATFORM GROUND HALO (TYP. OF 4 PLACES)
PROPOSED EQUIPMENT GROUND RING (#2 AWG TINNED SOLID COPPER - 36" MIN. BELOW GRADE)

GROUND PROPOSED GENERATOR TO PLATFORM GROUND HALO PER MANUFACTURER'S SPECIFICATIONS

GROUND TEST PIT

CONNECT EQUIPMENT GROUND RING TO EXISTING GROUNDING SYSTEM (TYP. OF 2 PLACES MIN.)

PROPOSED PLATFORM GROUND HALO (#2 AWG TINNED SOLID COPPER SECURED BY RUBBER GROMMETS)

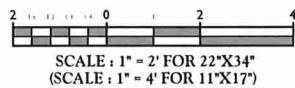
GROUND PROPOSED EQUIPMENT TO PLATFORM GROUND HALO PER MANUFACTURER'S SPECIFICATIONS (TYP. EACH CABINET)

PROPOSED GALVANIZED STEEL 5/8"Øx10' LONG GROUND ROD, SPACED NO GREATER THAN 20' AND NO LESS THAN 6' APART (CADWELD CONNECTION TO GROUND ROD WITH GTC-182Q #115 CADWELD SHOT - TYP. EACH ROD)

GROUND ACCESS STAIRS AND STEEL PLATFORM MEMBERS (TYP. EACH STEEL MEMBER)

GROUND GPS UNIT

GROUNDING PLAN



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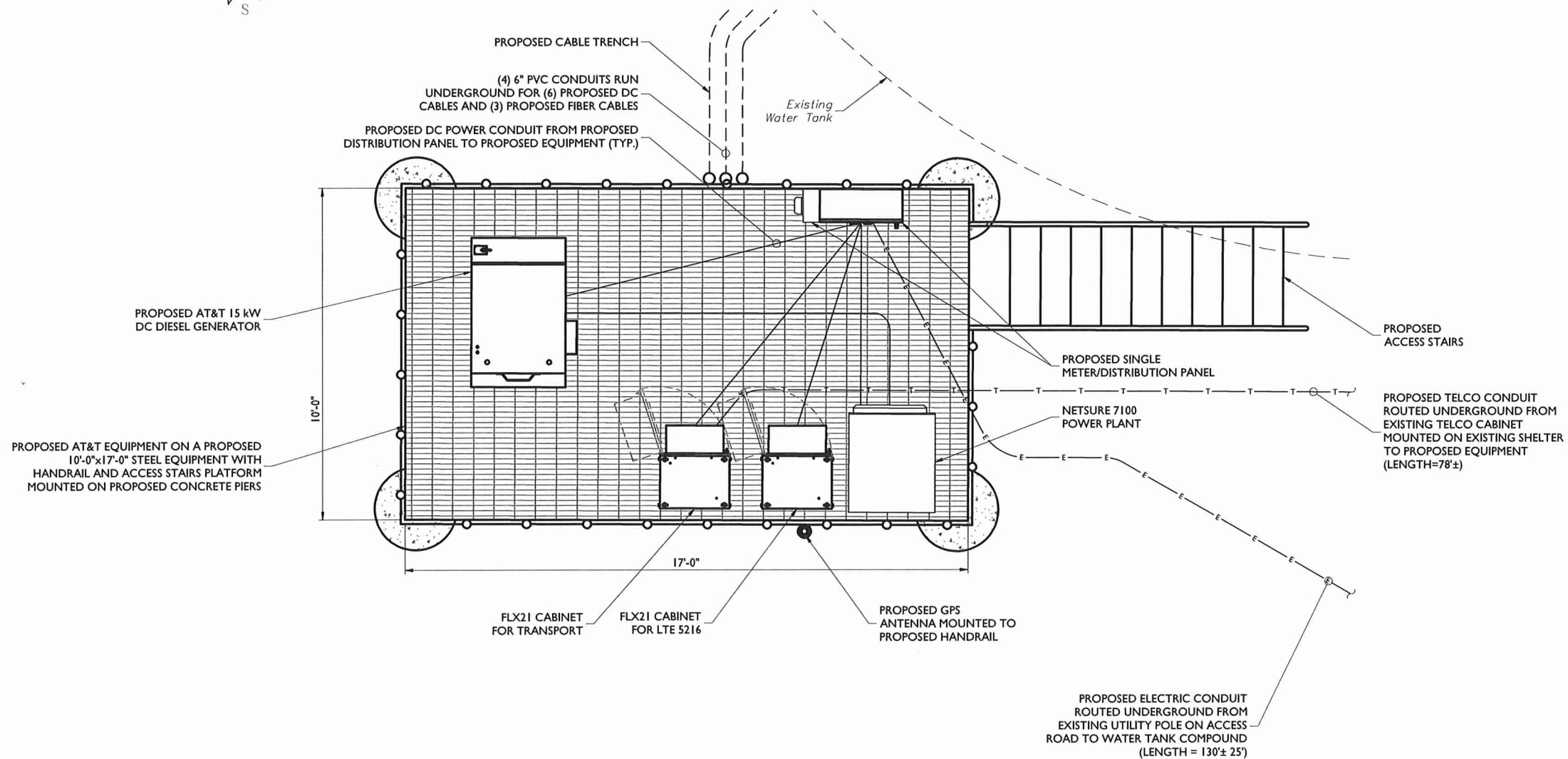
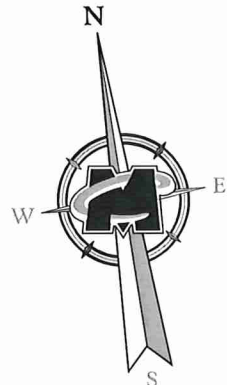
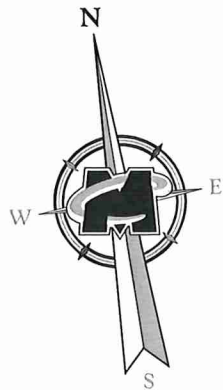
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SHEET TITLE:
GROUNDING PLAN

SHEET NUMBER:
G-3



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UTILITY PLAN
10 0 10 20
SCALE: 1" = 10' FOR 22"X34"
(SCALE: 1" = 20' FOR 11"X17")

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6	01/22/20	REVISED PER COMMENTS	NL PET
5	08/09/19	FOR CONSTRUCTION	AJCHPC LJ
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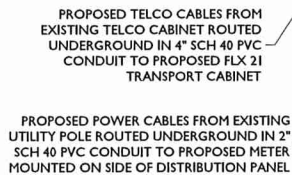


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UTILITY PLAN

E-I

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SHEET NUMBER:	E-2

STRUCTURAL NOTES:

- ALL STEEL WORK SHALL GALVANIZED IN ACCORDANCE WITH ASTM 123 SPECIFICATIONS UNLESS NOTED OTHERWISE AND SHALL BE THE FOLLOWING MATERIALS:
 - W-SHAPE
 - CHANNELS, ANGLES, PLATES
 - TUBES
 - PIPES
 - BOLTS
- 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.
- GALVANIZED COATING THICKNESS TO BE G90.
- 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.
- UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE INSTALLED WITH HEADS UP OR TOWARD THE OUTSIDE FACE, AND NUTS DOWN.
- STEEL GRATING TO BE WELDFORGED 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.
- GRATING IS TO BE ATTACHED TO THE STEEL USING EITHER SADDLE CLAMPS OR 5/8"Ø GALVANIZED ASTM A307 BOLTS, UNLESS NOTED OTHERWISE.
- USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED MATERIALS. AT COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- 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.
- 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".
- 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).
- SHOP PAINTING AND SURFACE PREPARATION OF STRUCTURAL STEEL COMPONENTS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF STEEL CONSTRUCTION, INC.
- THE HANDRAIL AND EQUIPMENT PLATFORM SHALL BE IN ACCORDANCE WITH CURRENT OSHA REGULATIONS.
- MEMBERS SHALL BE LAID PLUMB AND TRUE AS SHOWN ON THE DRAWINGS.
- COPE ALL FRAMING AT ENDS AS NECESSARY, UNLESS NOTED OTHERWISE.
- THE GENERAL CONTRACTOR AND THEIR SUBCONSULTANTS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK.
- 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.)
- TOP OF STEEL (T.O.S.) REFERENCE ELEVATION 5'-6" = T.O.S. FRAMING UNLESS NOTED OTHERWISE THUS (±X").
- V.I.F. = VERIFY IN FIELD
- CONTRACTOR TO VERIFY BOLT HOLE LOCATIONS FOR EQUIPMENT CABINETS WITH MANUFACTURER.
- DENOTES HANDRAIL
- DENOTES GRATING DIRECTION
- STRUCTURAL LOADING:
 - WIND LOADING: 124 MPH (3-SECOND GUST) PER ASCE 7-10
 - (1) POWER CABINET - NETSURE 7100 (2,500 LBS)
 - (2) TELCO CABINETS - NETSURE FLX21 (800 LBS EACH)
 - (1) 15kW GENERATOR - POLAR POWER 15kW DIESEL GENERATOR (2,500 LBS)



NOTE:
KB DENOTES KNEE BRACE.

* DENOTES MANUFACTURER SPECIFIED ANCHOR SPACING. CONTRACTOR TO VERIFY ANCHOR SPACING AND INSTALL MEMBERS AS REQUIRED.

STRUCTURAL FRAMING PLAN



SCALE : 1" = 1' FOR 22"x34"
(SCALE : 1" = 2' FOR 11"x17")



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SCALE	AS SHOWN	JOB NUMBER	18946080A
10	04/05/21	ISSUED FOR CONSTRUCTION	MJB MPC
9	03/18/21	ISSUED FOR CONSTRUCTION	MJB MPC
8	11/11/20	ISSUED FOR CONSTRUCTION	MPC PET
7	01/30/20	REVISED PER COMMENTS	ANM MPC
6	01/22/20	REVISED PER COMMENTS	NL PET
5	08/09/19	FOR CONSTRUCTION	AJCMPC LJ
4	05/07/19	REVISED PER COMMENTS	JR LJ
3	04/02/19	REVISED PER COMMENTS	MJB RA
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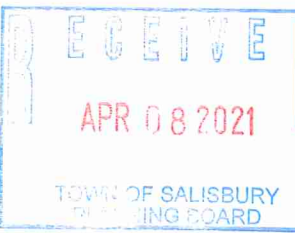
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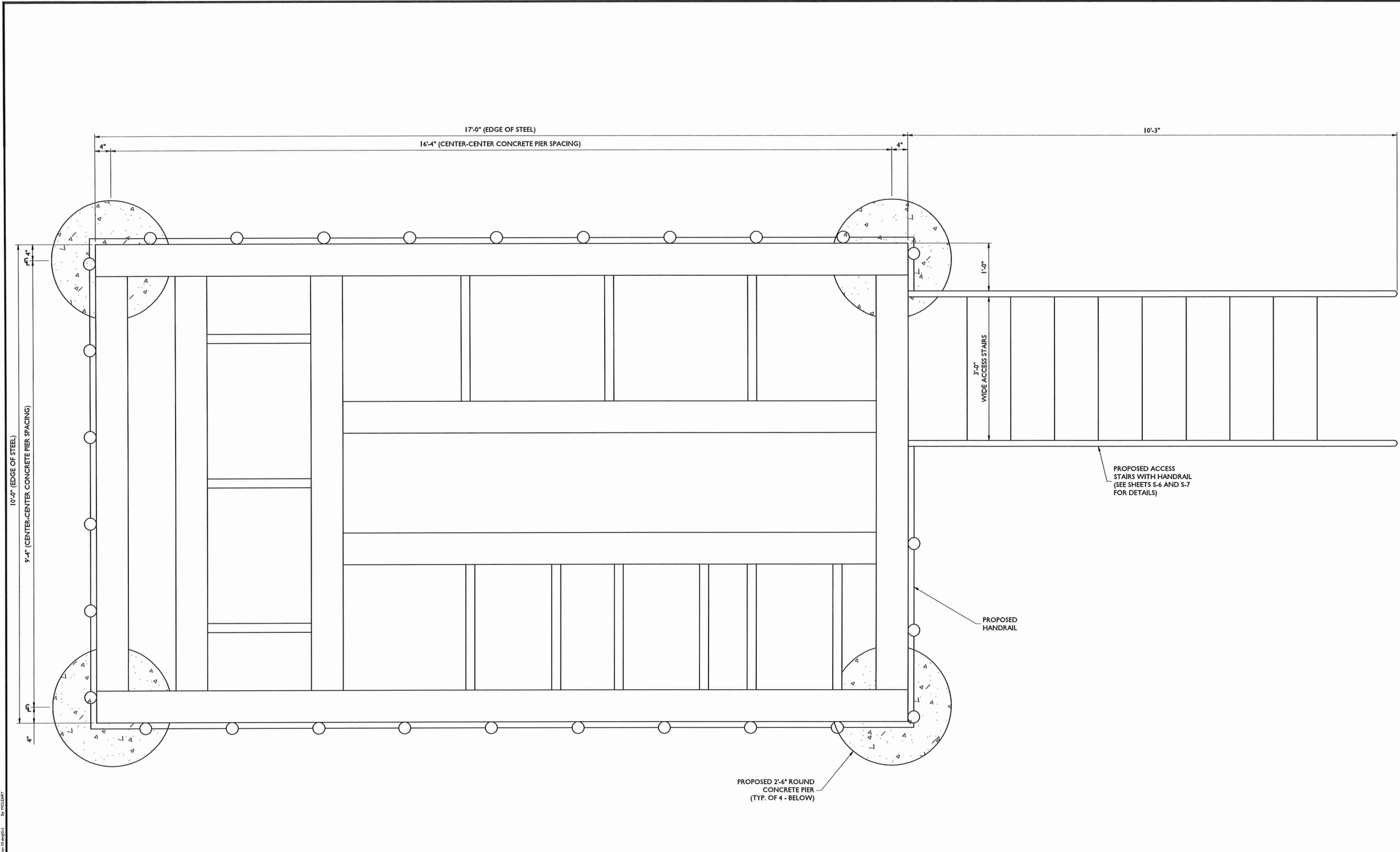


STRUCTURAL DETAILS

S-I



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



FOUNDATION LOCATION PLAN



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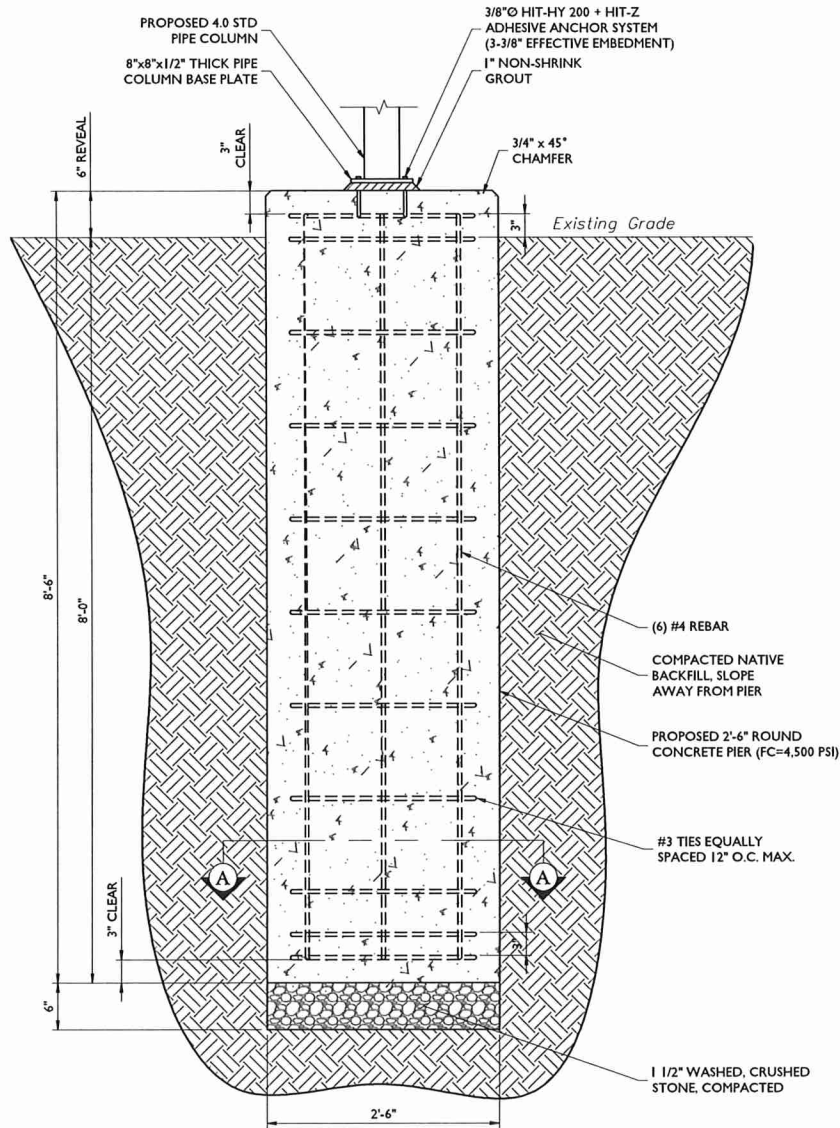
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SHEET TITLE:
STRUCTURAL DETAILS

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S-2



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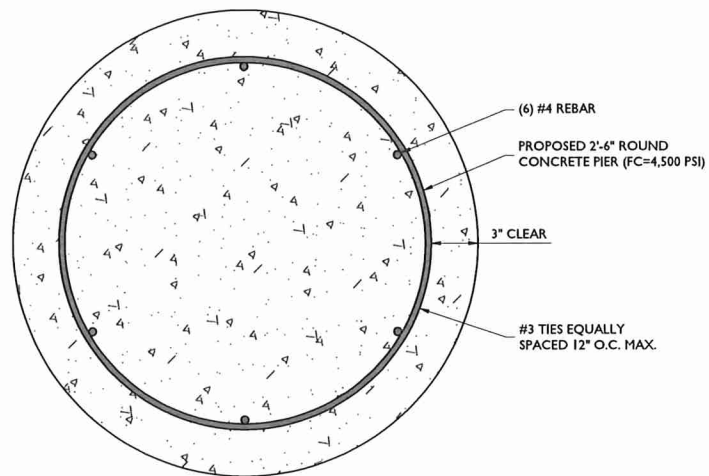


- NOTES:**
1. TOP OF ALL EQUIPMENT PLATFORM FOUNDATIONS SHALL BE SET AT THE SAME ELEVATION.
 2. CONTRACTOR SHOULD FIELD VERIFY TOP OF CONCRETE ELEVATIONS TO ENSURE T.O.S. ELEVATIONS ARE UNIFORM.
 3. COMPACTED BACKFILL SURROUNDING PROPOSED PIERS IS TO BE COMPACTED TO 95% DRY DENSITY.

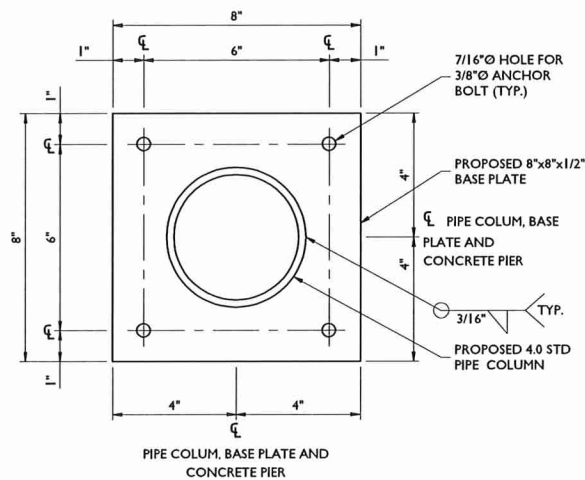
EQUIPMENT PLATFORM FOUNDATION



SCALE : 1" = 1' FOR 22"X34"
(SCALE : 1" = 2' FOR 11"X17")



SECTION "A-A"



PIPE COLUMN BASE
PLATE DETAIL
NOT TO SCALE

CONCRETE AND REINFORCING STEEL NOTES

DESIGN INFORMATION:

1. 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.
2. THE DESIGN SHALL CONFORM TO THE INTERNATIONAL BUILDING COD AS SHOWN ON SHEET T-1.

EARTHWORK:

1. 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.
2. DESIGN FURNISH AND INSTALL TEMPORARY SHEETING, SHORING, AND DRAINAGE TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.
3. THOROUGHLY COMPACT ALL BOTTOM OF FOOTINGS PRIOR TO PLACING ANY CONCRETE.

CONCRETE:

1. FORMWORK

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

2. REINFORCEMENT

- 2.a. 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.
- 2.b. 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

- 2.c.1. 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
- 2.c.2. MIX DESIGN TO BE IN ACCORDANCE WITH ACI 318, CHAPTER 5. NO CALCIUM CHLORIDE ADMIXTURE CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE
- 2.c.3. 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 1/4".
- 2.c.4. COLD WEATHER PLACEMENT SHALL COMPLY WITH ACI 306.1
- 2.c.5. HOT WEATHER PLACEMENT SHALL COMPLY WITH ACI 305 R.
- 2.c.6. CHAMFER ALL EXPOSED EDGES 3/4"
- 2.c.7. THE MAXIMUM TEMPERATURE OF ALL CONCRETE AT DELIVERY TO THE SITE SHALL BE 85°F
- 2.c.8. TOTAL DELIVERY TIME SHALL BE LESS THAN 75 MINUTES.

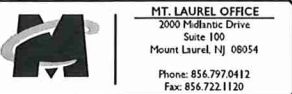


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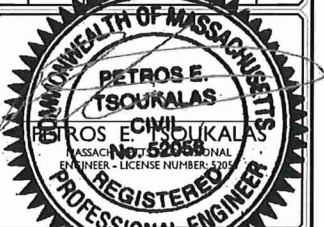
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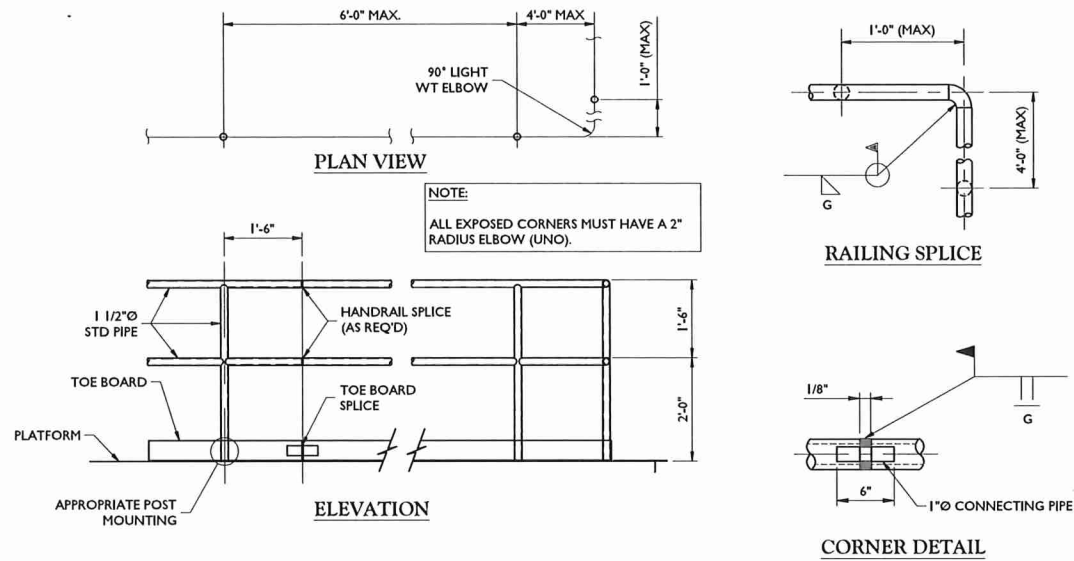
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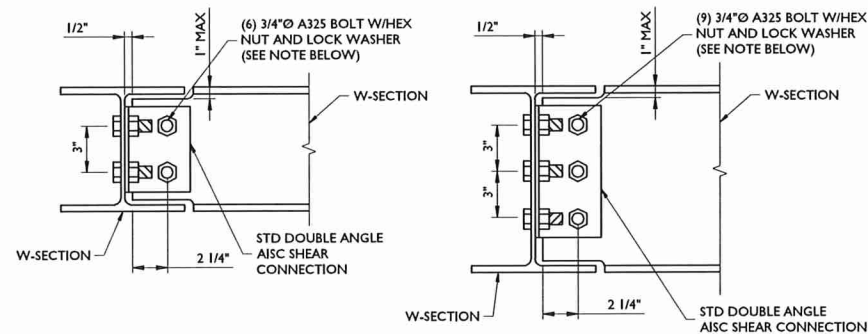
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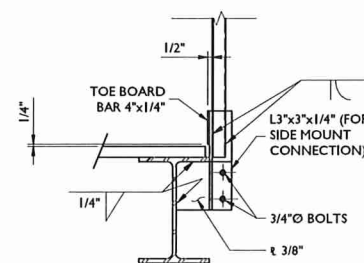
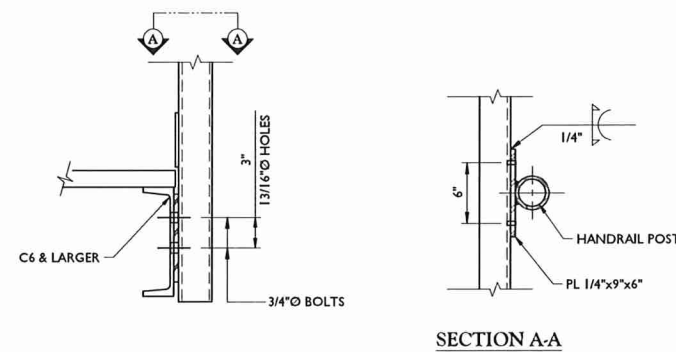


MISCELLANEOUS HANDRAIL DETAILS
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NOTE
 USE SAME DETAIL FOR C-SECTION TO W-SECTION FRAMING EXCEPT THAT THE ANGLE CLIP WILL BE NEAR SIDE ONLY.

TYPICAL BEAM FRAMING
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HANDRAIL POST CONNECTION DETAILS
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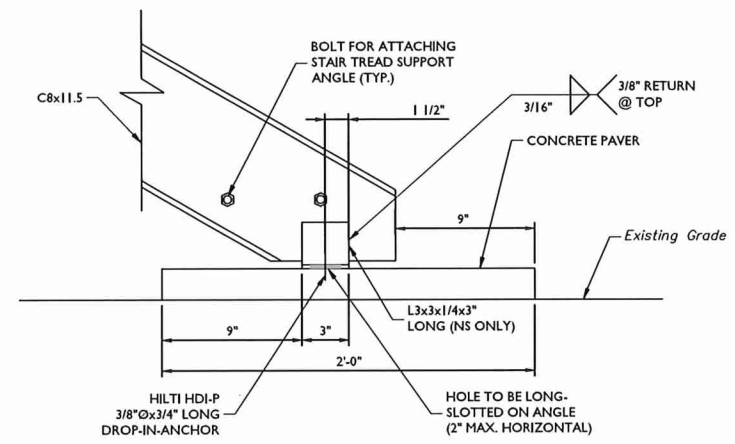
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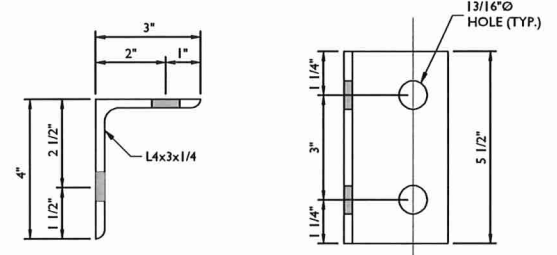
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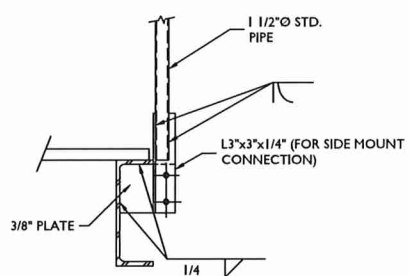
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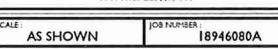
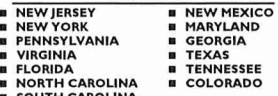
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