

PREPARED FOR: VERIZON 118 FLANDERS ROAD WESTBOROUGH, MA 01581 [508] 330-3330 TEL

CONSTRUCTION

Hudson Design Groupus

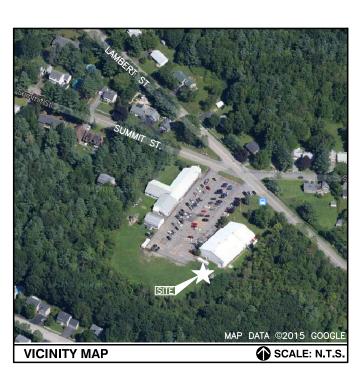
1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 TEL: (978) 557-55 N. ANDOVER, MA 01845 FAX: (978) 336-55

PORTLAND 3 ME

476 SUMMIT STREET PORTLAND, ME 04103

SITE ADDRESS:

PARCEL ID:



DIRECTIONS TO SITE:

GET ON I-495 N FROM FRIBERG PKWY AND MA-9 E/STATE HWY 9 E/BOSTON WORCESTER TURNPIKE. HEAD NORTHWEST ON FRIBERG PKWY TOWARD RESEARCH DR TURN LEFT ONTO RESEARCH DR. TURN RIGHT TO MERGE ONTO MA-9 E/STATE HWY 9 E/BOSTON WORCESTER TURNPIKE. MERGE ONTO I-495 N VIA THE RAMP TO LOWELL. FOLLOW I-495 N AND I-95 N TO ME-100 S/ME-26 S IN FALMOUTH. TAKE EXIT 53 FROM I-95 N. MERGE ONTO I-495 N CONTINUE ONTO EXIT 60 (SIGNS FOR ROUTE 286/BEACHES/SALISBURRY) MERGE ONTO I-95 N. ENTERING NEW HAMPSHIRE KEEP LEFT AT THE FORK TO STAY ON I-95 N. ENTERING MAINE TAKE EXIT 53 TOWARD MAINE ME 26 W/MAINE ME 100 W/FALMOUTH CONTINUE ON ME-100 S/ME-26 S. DRIVE TO SUMMIT ST IN PORTLAND TURN RIGHT ONTO LAMBERT ST. TURN LEFT ONTO SUMMIT ST DESTINATION WILL BE ON THE LEFT. 476 SUMMIT ST. PORTLAND, ME 04103

CONSULTANT TEAM

PROJECT ENGINEER

HUDSON DESIGN GROUP, LLC 1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 NORTH ANDOVER, MA 01845 TEL: 1-(978)-557-5553 FAX: 1-(978)-336-5586

SURVEYOR

NORTHEAST SURVEY CONSULTANTS 116 PLEASANT ST. SUITE 302 EASTHAMPTON, MA 01027 TEL: 1-(413)-203-5144

MEP ENGINEER

CSI ENGINEERING, LLC 999 BROADWAY SUITE 206 SAUGUS, MA 01906 TEL: 1-(781)-233-4808 FAX: 1-(781)-233-4848

PROJECT SUMMARY

SITE NAME: PORTLAND 3 ME

PORTLAND, ME 04103

APPLICANT:

VERIZON WIRELESS 118 FLANDERS ROAD WESTBOROUGH, MA 01581

476 SUMMIT STREET

ZONING DISTRICT:

ZONING JURISDICTION: CITY OF PORTLAND, ME

LATITUDE: N43° 43′ 01.74″

LONGITUDE: W70° 17′ 44.60″

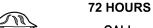
PROPERTY OWNER: GRACE BAPTIST CHURCH

476 SUMMIT STREET PORTLAND, ME 04103

384-A021 & 385-C002

• • • • • • • • • • • • • • • • • • • •	:
SHT. NO.	DESCRIPTION
T-1	TITLE SHEET
C-1	ABUTTERS PLAN
C-2	EXISTING CONDITIONS
C-3	SITE PLAN
A-1	COMPOUND PLAN
A-2	ELEVATION
A-3	ANTENNA PLAN AND DETAILS
A-4	DETAILS
A-5	EROSION CONTROL NOTES & DETAILS
A-6	DETAILS
A-7	EQUIPMENT DETAILS
E-1	ELECTRICAL NOTES & WIRING DIAGRAM
E-2	ELECTRICAL ONE—LINE AND GROUNDING DIAGRAM
E-3	GROUNDING PLAN
E-4	ELECTRICAL/GROUNDING DETAILS
RF-1	RF COLOR CODE
RF-2	RF ANTENNA DESIGN

AS BUILT 12/2/2016 M. HEATH EASTERN COMMUNICATIONS, INC.



SHEET INDEX

CALL
BEFORE YOU DIG
CALL TOLL FREE 1-888-DIG-SAFE
OR CALL 811

UNDERGROUND SERVICE ALERT

PORTLAND 3 ME

2 07/06/16 REVISED FOUIPMENT LAYOUT

1 02/09/16 FOR CONSTRUCTION 0 07/31/15 FOR CONSTRUCTION

CHECKED BY:

APPROVED BY:

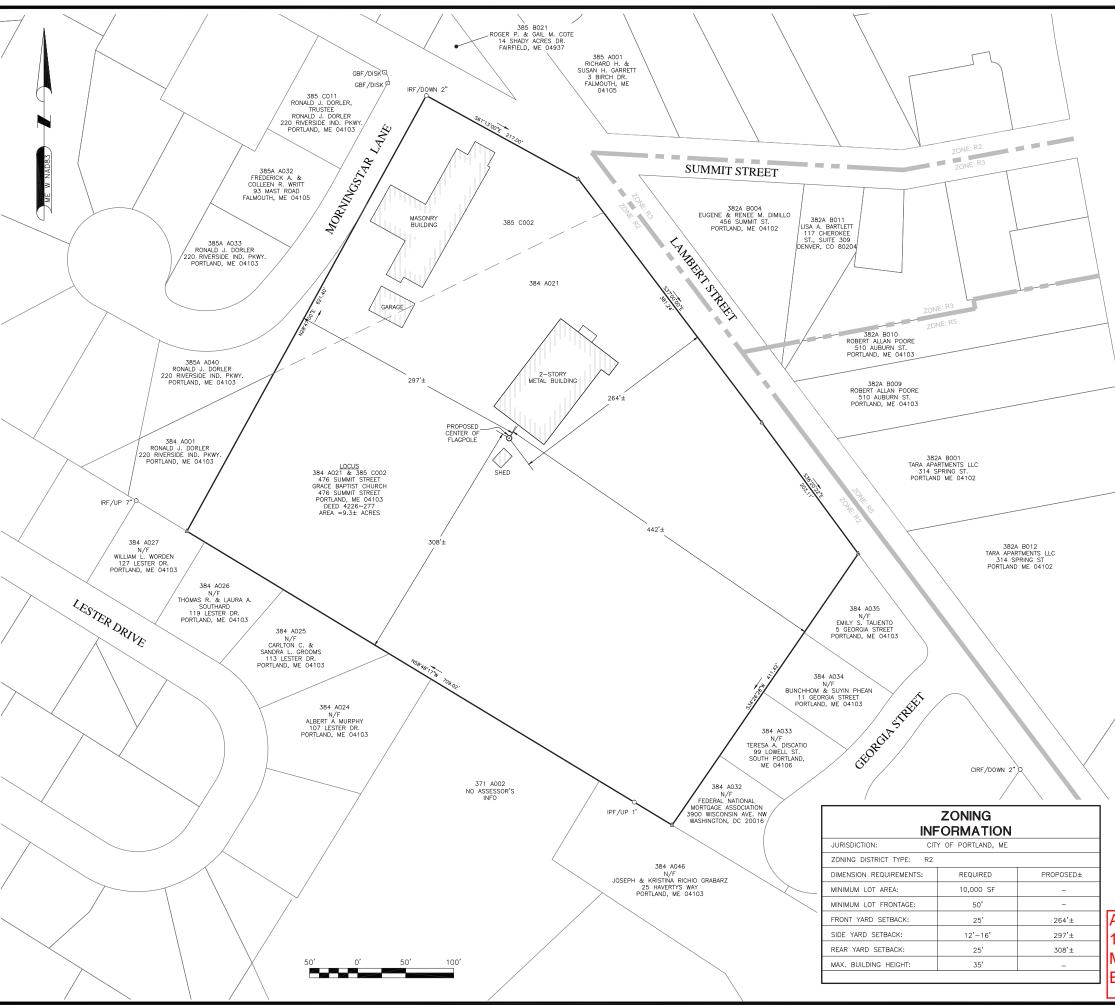
SUBMITTALS

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

TITLE SHEET

SHEET NUMBER

T-1



LEGEND

PROPERTY LINE - SUBJECT PARCEL ABUTTERS PROPERTY LINE

CONTOUR LINE UNDERGROUND UTILITY LINE O GUARD RAIL

CHAIN LINK FENCE

PAINTED WHITE LINE PAINTED YELLOW LINE

CONIFEROUS TREE

CATCH BASIN ROOF DRAIN

POST/BOLLARD

WATER GATE VALVE

MANHOLE, UNKNOWN TELEPHONE MANHOLE

DRAIN MANHOLE

0 GAS METER

GAS GATE VALVE

UTILITY POLE SIGN

● ☐ MONUMENTS, AS DESCRIBED

CALCULATED POINT

SITE SPECIFIC NOTES:

1. FIELD SURVEY DATE: 03-26-2015

2. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)

NORTH AMERICAN VERTICAL DATUM 3. VERTICAL DATUM:

OF 1988 (NAVD88)

GRACE BAPTIST CHURCH 476 SUMMIT STREET 4. OWNER:

PORTLAND ME 04103

5. SITE NAME: PORTLAND 3 ME

476 SUMMIT STREET PORTLAND, ME 04103 6. SITE ADDRESS

7. APPLICANT: BELL ATLANTIC MOBILE OF MASSACHUSETTS CORPORATION, LTD.,

d/b/a VERIZON WIRELESS

CITY OF PORTLAND 8. JURISDICTION: CUMBERLAND COUNTY

9. TAX ID:

384-A021 & 385-C002 10. DEED REFERENCE: BOOK 4226 PAGE 277

11. PLAN REFERENCE: NONE

12. ZONING DISTRICT: R2

13. THE HORIZONTAL DATUM AND VERTICAL DATUM WERE DERIVED FROM A DUAL FREQUENCY GPS SURVEY.

14. ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE AND PLANS OF RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DIGSAFE 1-800-322-4844 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.

15. ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE PROPOSED IMPROVEMENTS ON THIS PROPERTY ARE LOCATED IN AN AREA DESIGNATED AS ZONE X (UNSHADED), AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
COMMUNITY PANEL NO. 2300510002C
EFFECTIVE DATE: 12-08-1998

16. FIELD SURVEY BY EDM TOTAL STATION.

17. THIS IS NOT A BOUNDARY SURVEY.

18. ALL PROPERTY LINES SHOWN ARE FROM PLANS & DEEDS OF RECORD AND ARE APPROXIMATE ONLY.

19. ABUTTING PROPERTY LINES, ABUTTING STREET LINES AND

ABUTTING BUILDING LOCATIONS ARE AS TAKEN FROM GIS AND ARE APPROXIMATE ONLY.

PREPARED FOR:



00 OSGOOD STREET SUILDING 20 NORTH, SUITE 3090 TEL: (978) 557-5553 N. ANDOVER, MA 01845 FAX: (978) 336-5586

> NORTHEAST SURVEY CONSULTANTS





APPROVED BY

SUBMITTALS DESCRIPTION

PORTLAND 3 ME

SITE ADDRESS:

0 07/01/15 ISSUED FOR REVIEW

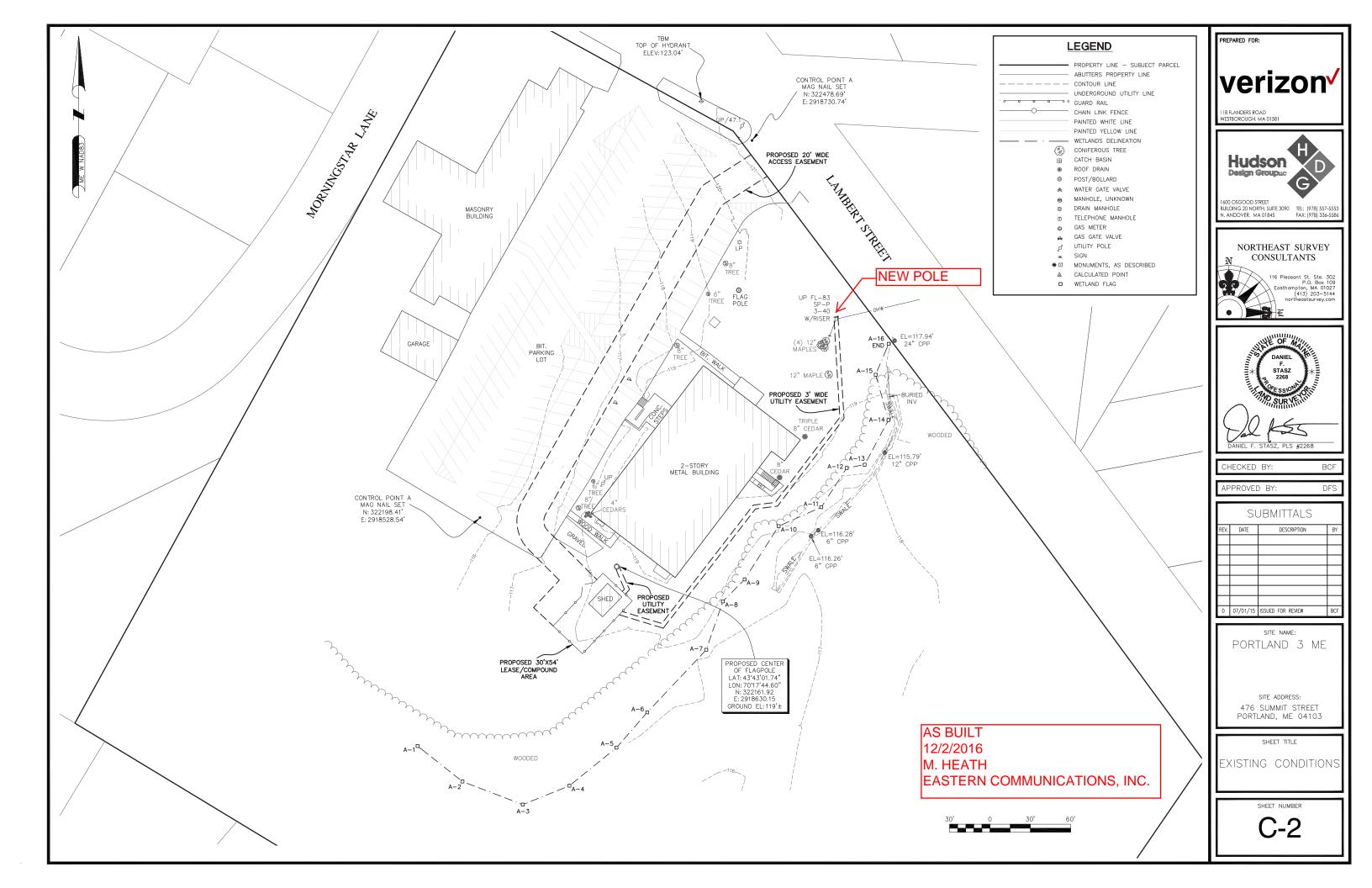
476 SUMMIT STREET PORTLAND, ME 04103

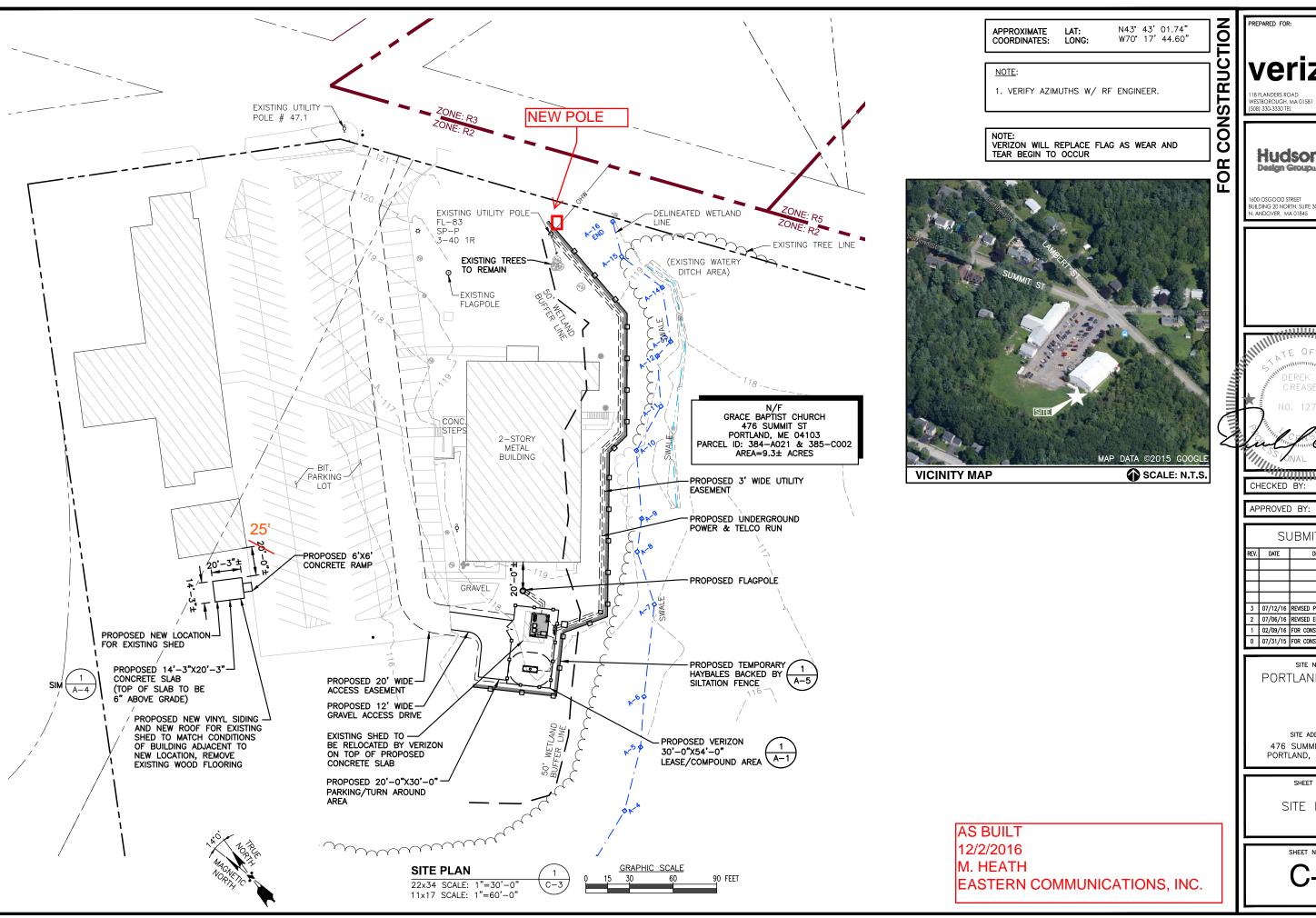
SHEET TITLE

ABUTTERS PLAN

SHEET NUMBER

AS BUILT 12/2/2016 EASTERN COMMUNICATIONS, INC.





verizon



SUILDING 20 NORTH, SUITE 3090 TEL: (978) 557-555 N. ANDOVER, MA 01845 FAX: (978) 336-558

ATE OF MA

APPROVED BY:

SUBMITTALS

DPH

REV.	DATE	DESCRIPTION	BY
3	07/12/16	REVISED PER BID WALK	НН
2	07/06/16	REVISED EQUIPMENT LAYOUT	НН
1	02/09/16	FOR CONSTRUCTION	MR
0	07/31/15	FOR CONSTRUCTION	НН

PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET

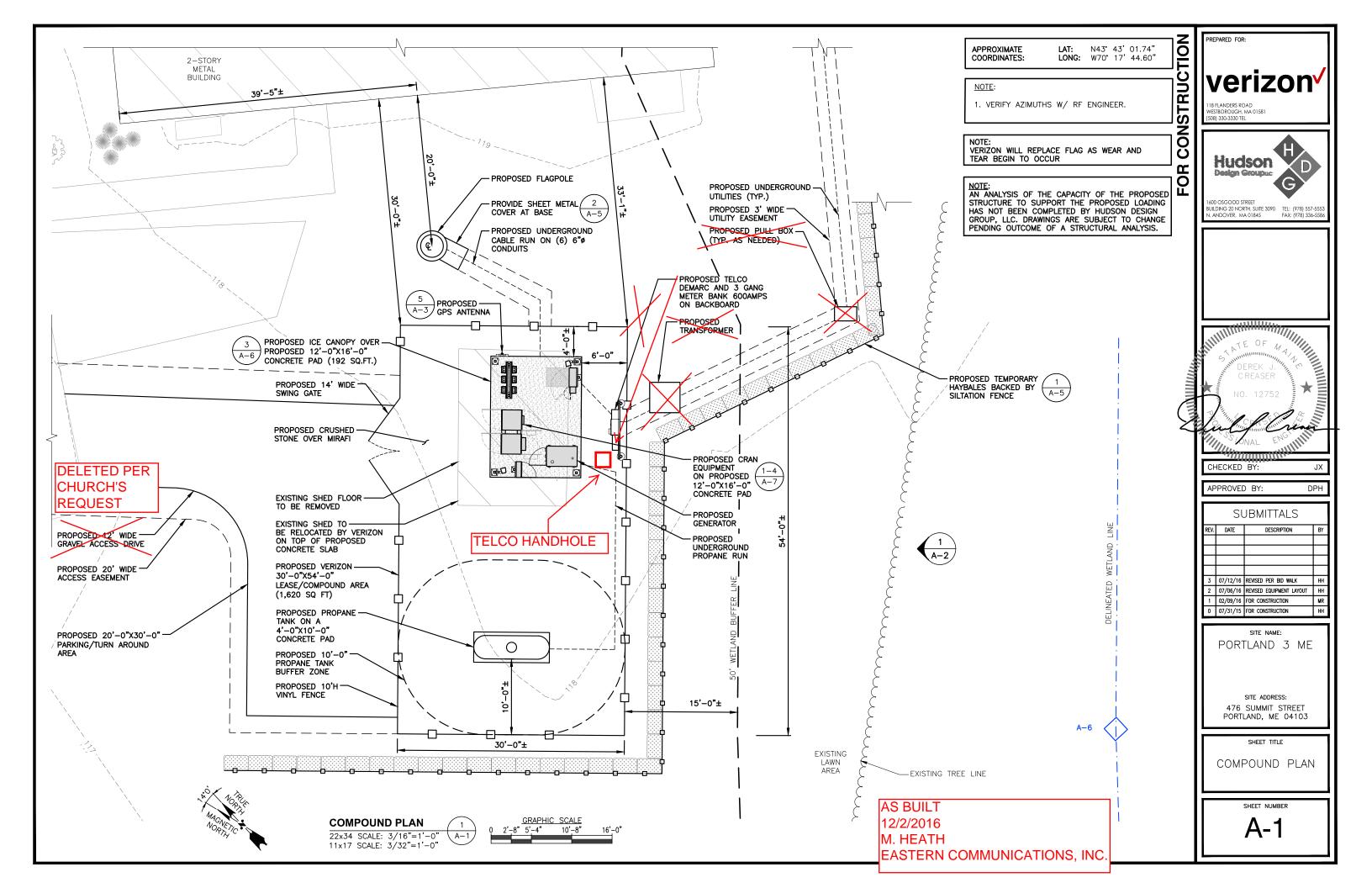
PORTLAND, ME 04103

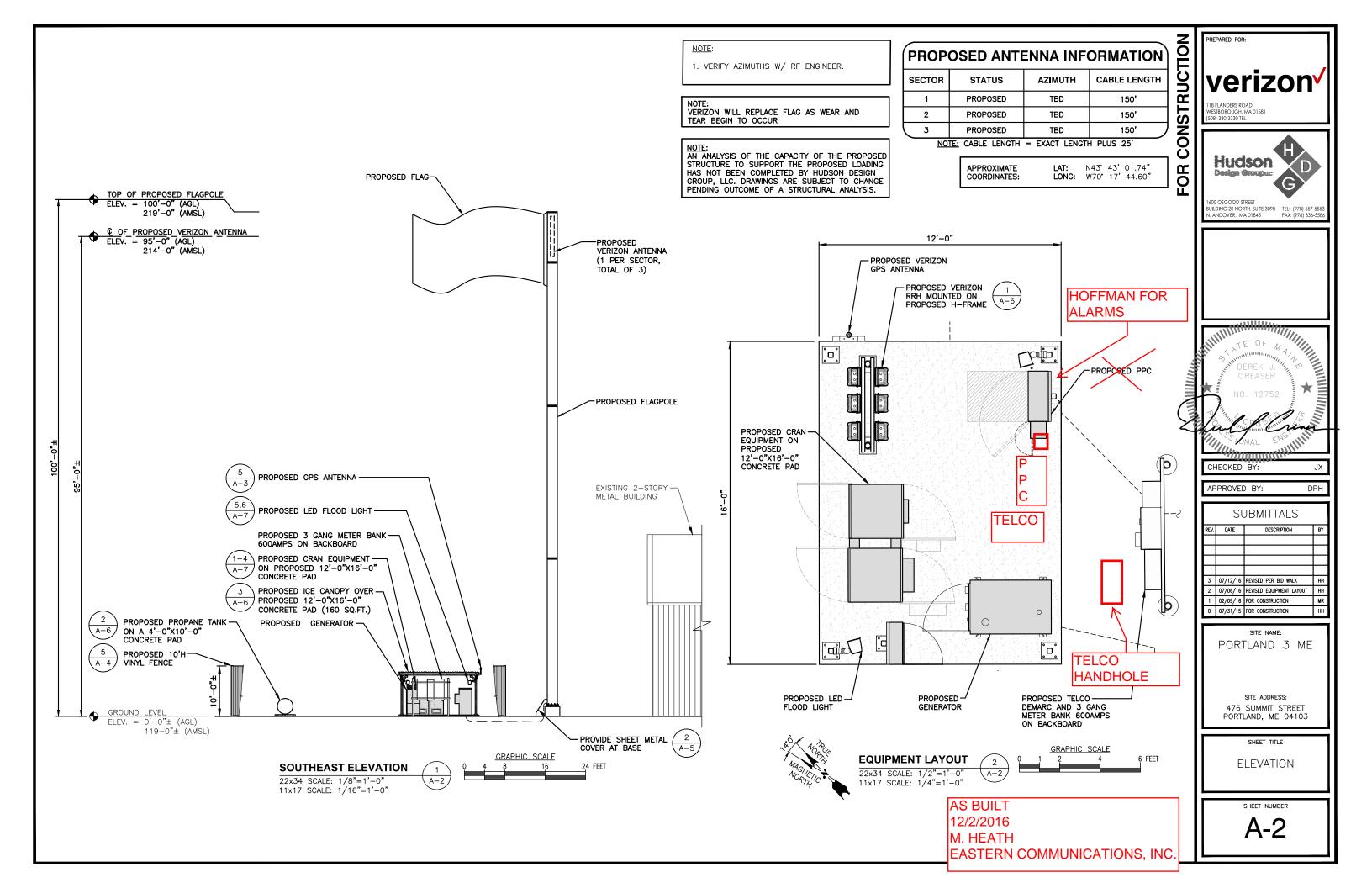
SHEET TITLE

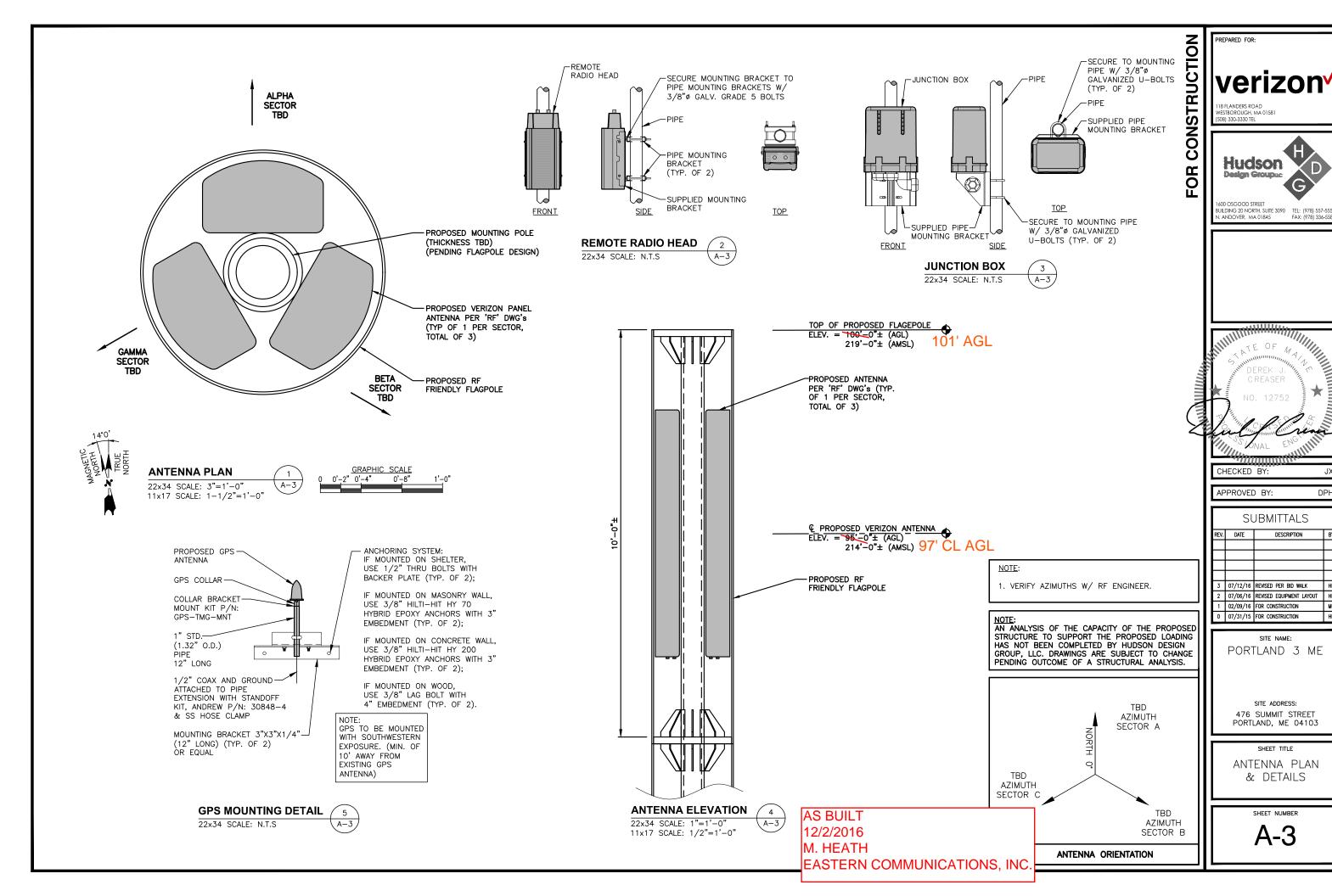
SITE PLAN

SHEET NUMBER

C-3







DPH

FOUNDATION NOTES & CONCRETE SPECIFICATIONS: 1. FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER EXISTING UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE. 2. UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL. 3. CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)=4000 psi. CONCRETE TO BE AIR ENTRAINED, DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 4. REINFORCING BAR TO BE ASTM A615 GRADE 60. 5. WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A185. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82. COORDINATE WITH MANUFACTURER OF PREFABRICATED SHELTER FOR LOCATION OF ATTACHMENTS TO BASE SLAB. 7. ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS. 8. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 AND APPLICABLE STATE BUILDING CODE. SEE PLAN #4 BARS @ 10" O.C./E.W.

-12" MIN. COMPACTED

CONCRETE PAD DETAIL

12"ø 3000 PSI

CONCRETE PILE

REQUIRED (TYP.)

(A-4

CUT POST AS-

ICE BRIDGE DETAIL

22x34 SCALE: N.T.S

22x34 SCALE: N.T.S

CONTRACTOR TO SPEC-HANGERS PER CABLE TYPE AND SIZE

SITE PRO1 ICE BRIDGE-

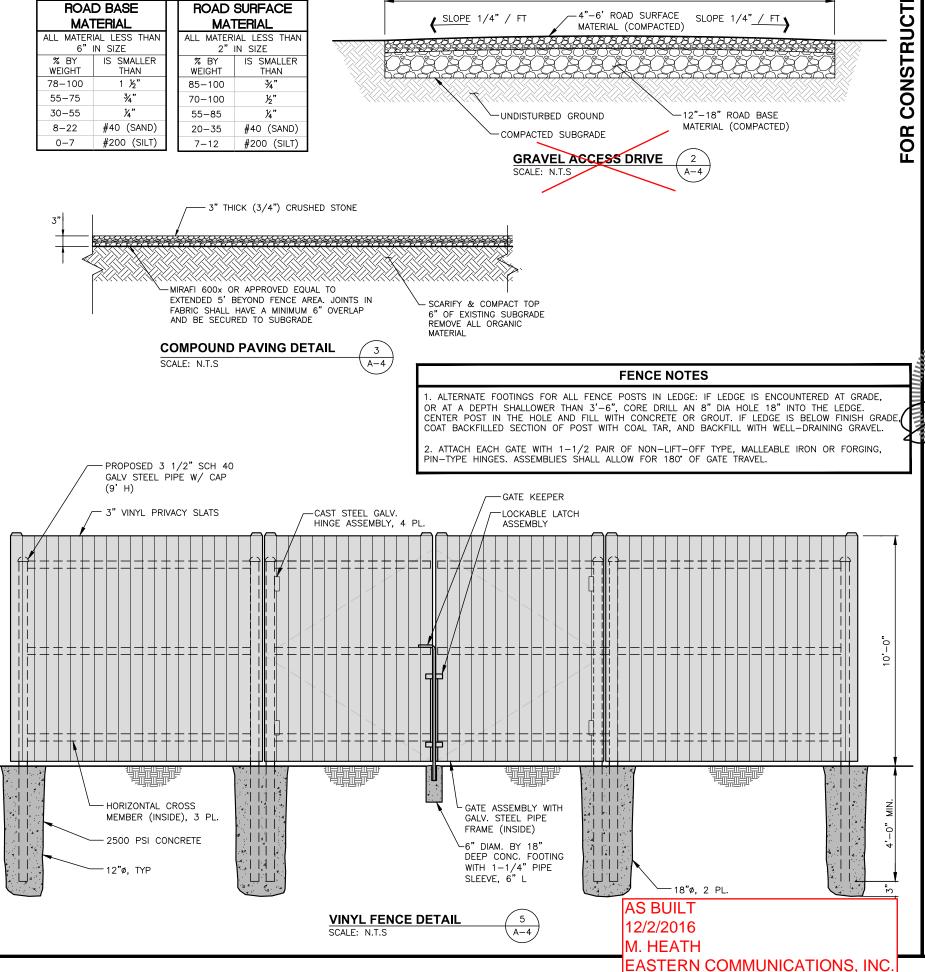
SITE PRO 1 BOLT-ON-

BASE SHOE (P# BSA300) WITH (3) 5/8" WEDGE

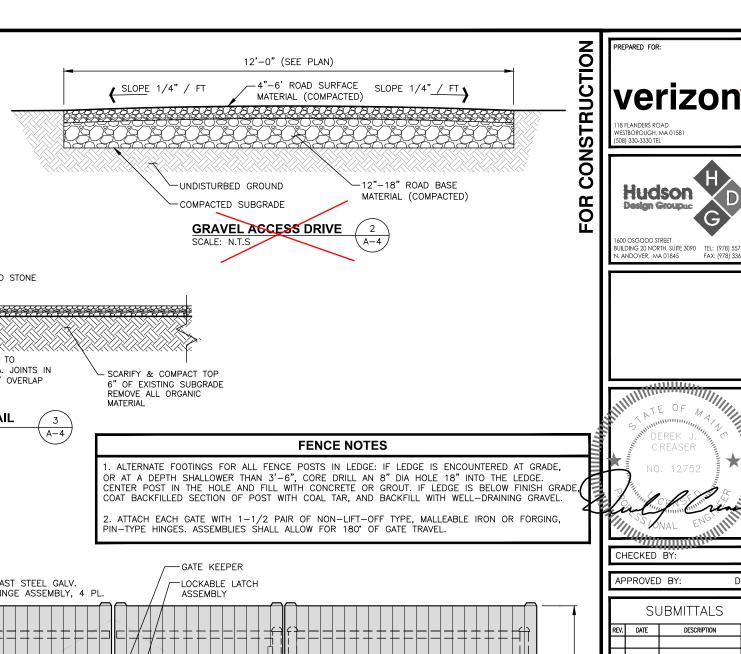
#IB24D-216T3 (OR

APPROVED EQUAL)

FROST-FREE GRAVEL FILL



MAINE DOT (2014) STANDARD SPECIFICATIONS



Hudson Design Groupus UILDING 20 NORTH, SUITE 3090 TEL: (978) 557-55 FAX: (978) 336-55 ANDOVER, MA 01845 ATE OF MA CHECKED BY APPROVED BY: DPH SUBMITTALS 07/12/16 REVISED PER BID WALK 2 07/06/16 REVISED FOUIPMENT LAYOUT 02/09/16 FOR CONSTRUCTION 0 07/31/15 FOR CONSTRUCTION PORTLAND 3 ME

SHEET TITLE

SITE ADDRESS: 476 SUMMIT STREET

PORTLAND, ME 04103

DETAILS

SHEET NUMBER

A-4

CONSTRUCTION SPECIFICATION - SILT FENCE:

- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- 3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
- 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED. AND STAPLED.
- 6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT

MAINTENANCE - SILT FENCE

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- 2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- 3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.
- 5. REMOVE ALL SEDIMENTATION CONTROLS AFTER SOIL IS STABILIZED.

EROSION CONTROL MEASURES:

- 1. DISTURBED AREAS SHALL BE KEPT TO THE MINIMUM AREA NECESSARY TO CONSTRUCT THE ROADWAYS AND ASSOCIATED DRAINAGE FACILITIES.
- 2. HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 3. BALED HAY AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY SHALL BE USED.
- 4. FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- 5. STOCKPILED MATERIALS SHALL BE PLACED ONLY IN AREAS SHOWN ON THE PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEEDED TO PREVENT EROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.
- 6. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA.
- 7. APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:

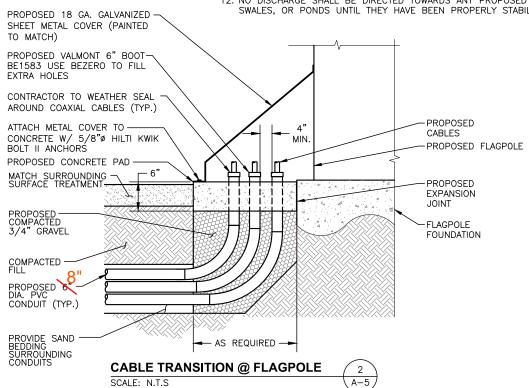
	FERTIL MULCI	IZER:
OSION	SEED	MIX:

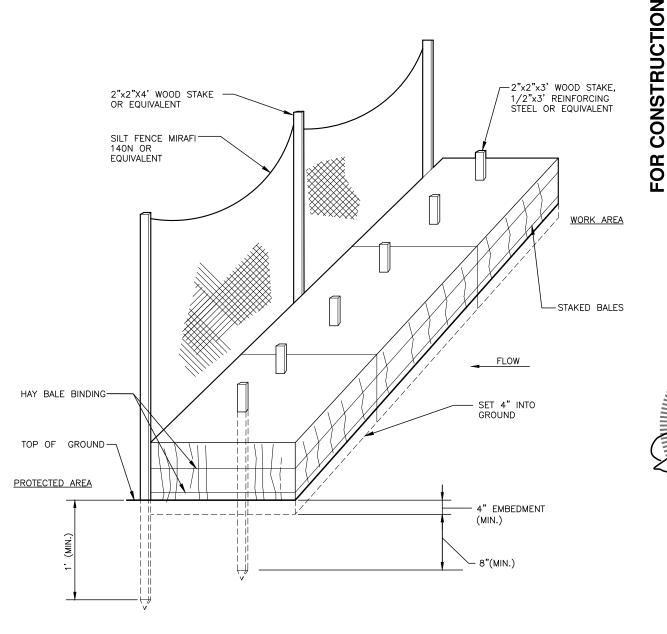
75-100 LBS./1,000 SQ FT RATE RECOMMENDED BY MANUFACTURER HAY MULCH APPROXIMATELY 3 TON/ACRE UNLESS CONTROL MATTING IS USED

OPES LESS THAN 4:1)	LBS./ACRE
CREEPING RED RESCUE	20
TALL RESCUE	20
REDTOP	_2
	42

(SLOPES GREATER THAN 4:1)	LBS./ACRE
CREEPING RED RESCUE	20
TALL RESCUE	20
BIRDSFOOT TREEFOIL	_8_
	48

- 8. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED.
- 9. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH LOW POINT SEDIMENTATION BARRIER.
- 10. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL
- 11. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A
- 12. NO DISCHARGE SHALL BE DIRECTED TOWARDS ANY PROPOSED DITCHES, SWALES, OR PONDS UNTIL THEY HAVE BEEN PROPERLY STABILIZED.





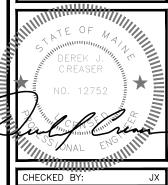
HAY BALES / SILT FENCE DETAIL SCALE: N.T.S

> AS BUILT 12/2/2016 M. HEATH EASTERN COMMUNICATIONS, INC

REPARED FOR WESTBOROUGH, MA 01581 508) 330-3330 TEL



UILDING 20 NORTH, SUITE 3090 TEL: (978) 557-55 FAX: (978) 336-558 ANDOVER, MA 01845



APPROVED BY:

SUBMITTALS DATE DESCRIPTION 07/12/16 REVISED PER BID WALK 2 07/06/16 REVISED FOUIPMENT LAYOUT 02/09/16 FOR CONSTRUCTION 0 07/31/15 FOR CONSTRUCTION

DPH

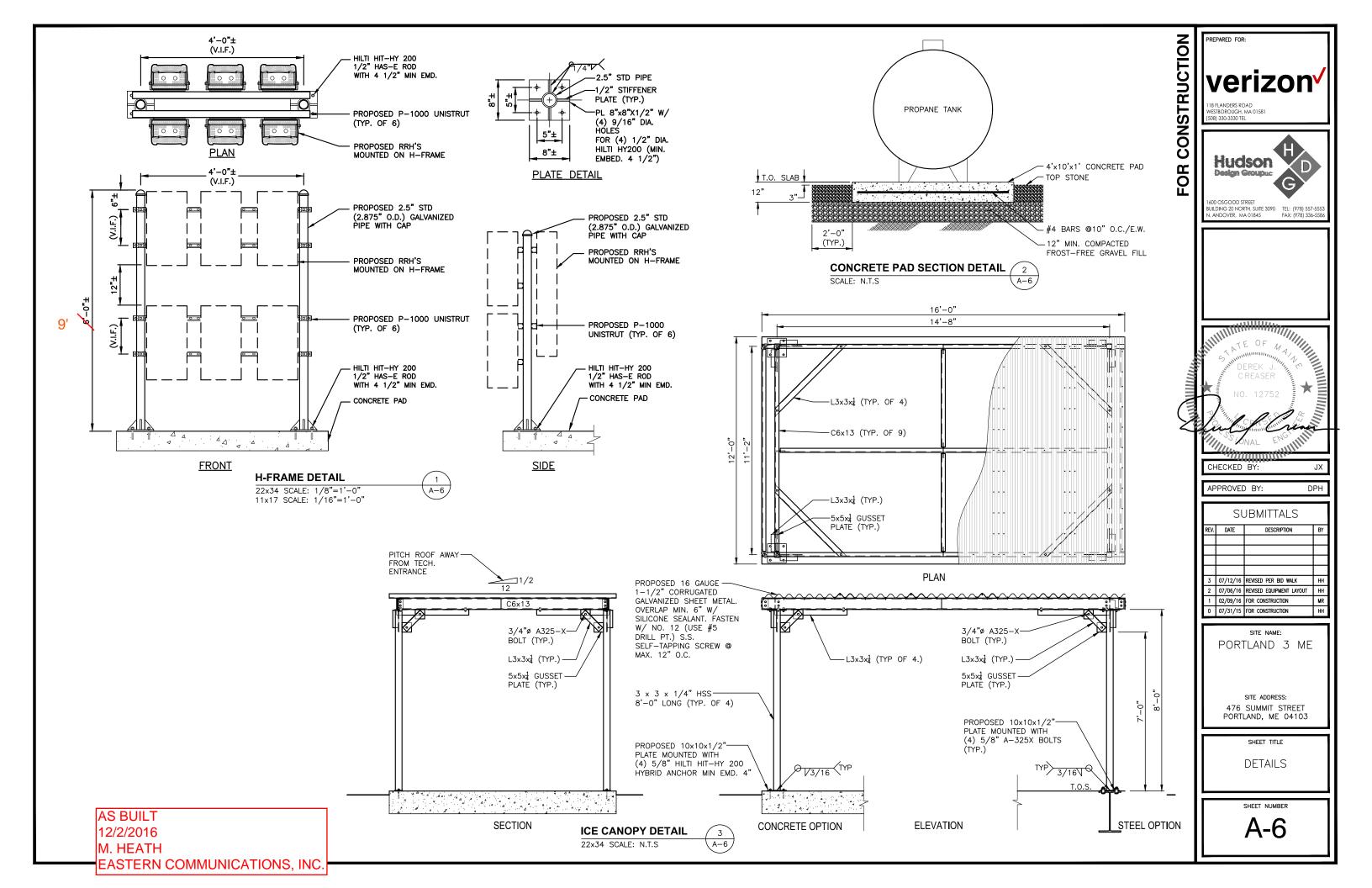
PORTLAND 3 ME

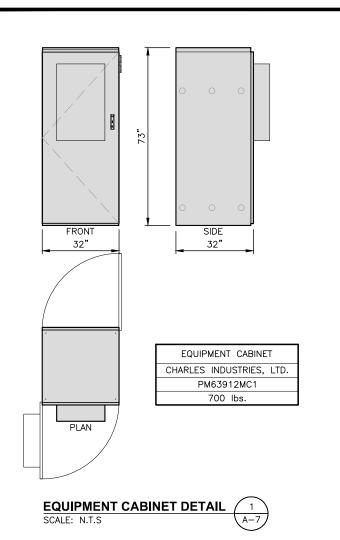
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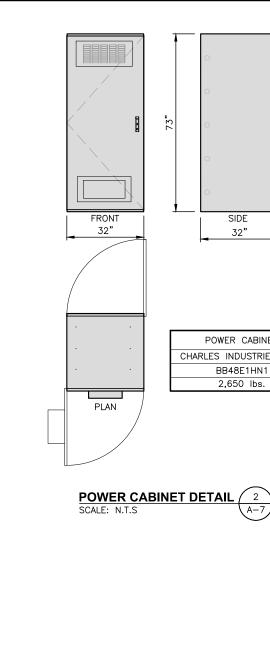
SHEET TITLE **EROSION CONTROL** NOTES & DETAILS

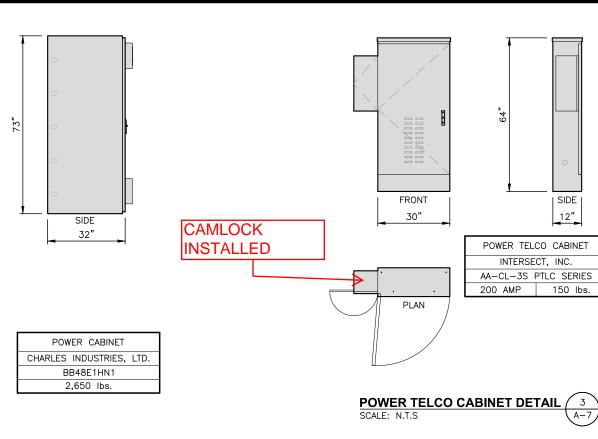
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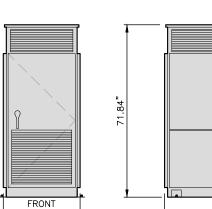
A-5

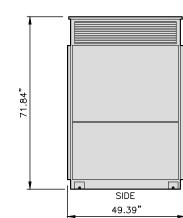








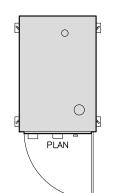




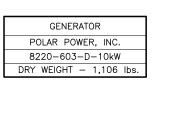
SIDE

12"

POWER TELCO CABINET INTERSECT, INC.



32"





RAB LIGHTING - FFLED180C

MOUNT PER MANUFACTURER'S SPECIFICATIONS.

LED FLOOD LIGHT DETAIL SCALE: N.T.S



INTERMATIC WP1220C

TYPE: DOUBLE GANG HINGE: VERTICAL INSERT: DEPTH: 2-1/4" COLOR: CLEÁR

TIME CYCLE: 6 HOURS SWITCH: SPST

OR APPROVED EQUIVALENT

INTERMATIC FF6H

OR APPROVED EQUIVALENT

SWITCH DETAIL SCALE: N.T.S

AS BUILT 12/2/2016 M. HEATH EASTERN COMMUNICATIONS, INC.

GENERATOR DETAIL SCALE: N.T.S

verizon

FOR CONSTRUCTION

Hudson Design Groupus

SUILDING 20 NORTH, SUITE 3090 TEL: (978) 557-555 N. ANDOVER, MA 01845 FAX: (978) 336-558

KATE OF MA CHECKED BY:

APPROVED BY:

SUBMITTALS 07/12/16 REVISED PER BID WALK 2 07/06/16 REVISED EQUIPMENT LAYOUT 1 02/09/16 FOR CONSTRUCTION 0 07/31/15 FOR CONSTRUCTION

PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE **EQUIPMENT DETAILS**

SHEET NUMBER

A-7

GENERAL NOTES

- ELECTRICAL

 1. ALL CONDUCTORS SHALL BE COPPER.
 2. ALL WIRING DEVICES AND EQUIPMENT SHALL BE SPECIFICATION GRADE AND UL
- LISTED. THE INSTALLATION OF ALL MATERIALS SHALL COMPLY WITH THE NATIONAL ELECTRIC
- THE INSTALLATION OF ALL MATERIALS SHALL COMPLY WITH THE NATIONAL ELECTRI CODE, 2014 EDITION OR LATEST.

 ALL MATERIALS SHALL BE NEW.
 OUTLETS AND JUNCTION BOXES SHALL BE ZINC-COATED OR CADMIUM PLATED SHEET STEEL BOXES NOT LESS THAN FOUR INCHES SQUARE AND SUITABLE FOR THE TYPE OF SERVICE OUTLET. ALL OUTLET AND JUNCTION BOXES SHALL BE
- THE TYPE OF SERVICE OUTLET. ALL OUTLET AND JUNCTION BOXES SHALL BE SECURELY SURFACE MOUNTED.

 6. THE ENTIRE SYSTEM SHALL BE SOLIDLY GROUNDED USING COMPRESSION—TYPE CONDUIT FITTINGS ON CONDUITS AND PROPERLY BONDED GROUND CONDUCTORS. CRIMP—TYPE AND SET SCREW—TYPE CONDUIT FITTINGS ARE NOT ALLOWED. ALL RECEPTACLES AND EQUIPMENT CIRCUITS SHALL BE CROUNDED USING A FULL—SIZE EQUIPMENT GROUNDING CONDUCTOR RUN WITH THE CURRENT CONDUCTORS.

 7. ALL WALL PENETRATIONS FOR TELCO, POWER, AND GROUNDING SHALL REQUIRE RIGID STEEL SLEEVES.

 8. ALL SWITCHES SHALL BE 48 INCHES A.F.F.

 9. ALL RECEPTACLES SHALL BE 18 INCHES A.F.F.

 10. ALL T—STATS SHALL BE 60 INCHES A.F.F.

- CABLE INAT 11. BOTTOM OF CABLE TRAY SHALL BE 7'-6" A.F.F. 12. CABLE TRAY ANCHORS SHALL BE MOUNTED TO STRUCTURAL CEILING. 13. AFTER FINAL LEVELING OF CABLE TRAY, CUT THREADED RODS 1/2" BELOW NUT
- AND CAP OFF.

 ALARM AND SIGNAL

 14. ALL ALARM WIRES SHALL BE RUN FROM EACH OF THE COMPONENTS TERMINAL
 STRIP. LEAVE ADDITIONAL ALARM WIRE COLED WITH SUFFICIENT LENGTH TO REACH
 THE FLOOR.

 15. ALL ALARM WIRES SHALL BE TAGGED AND LABELED WITH THE APPROPRIATE ALARM
 TEXT. ALL CONTRACTORS WITH DE MODBLALLY CLOSED, DRY AND ISOLATED EROM
- ITEM. ALL CONTRACTORS WILL BE NORMALLY CLOSED, DRY, AND ISOLATED FROM GROUND, U.O.N.
- 16. ALL ALARM WIRING SHALL BE 1/2"C., 2 #22, UNLESS OTHERWISE NOTED.
- EQUIPMENT.
- 18. ALL ENCLOSURES TO BE NEMA 3R. 19. INTEGRATED LOAD CENTER ASSEMBLY AND THE GENERATOR SUPPLIED BY LESSEE.

ELECTRICAL NOTES

- UTILITY SERVICES SHOWN ARE PROPOSED, THE ELECTRIC CONTRACTOR SHALL COORDINATE EXACT TELEPHONE AND ELECTRIC SERVICE CONNECTION POINTS, PULL BOXES, ROUTING AND ASSOCIATED REQUIREMENTS WITH OWNER AND LOCAL
- PULL BOXES, ROUTING AND ASSOCIAIED REQUIREMENTS WITH UNIVER AND LOCAL UTILITY CO.
 VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED. REPORT ADVERSE CONDITIONS IN WRITING TO LICENSEE. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS INCLUDING PREPARATORY WORK DONE BY OTHERS. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE HIRISDICTION
- JURISDICTION.

- JURISDICTION.
 PERFORM WORK AS REQUIRED BY BOCA AND PER LOCAL LAWS.
 HE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OWNER AND FIELD CONSTRUCTION MANAGER.
 ALL EXTERIOR WALL PENETRATIONS SHALL BE SILICONE SEALED.
 MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CBM
 APPROVED FOR INTENDED SERVICE. INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE.
 ALL ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THEN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C..
 ALL NEW WIRING SHALL BE TYPE THWN RATED 75°C., 600 VOLT. WET OR DRY LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG SOLID
- LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG SOLID

- COPPER.

 1. ALL METALLIC CONDUITS SHALL BE PROVIDED WITH BONDING BUSHINGS.

 11. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE LICENSEE PROJECT MANAGER AT JOB COMPLETION.

 12. PROVIDE THE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB.

 13. GUARANTEE WORK IN WRITING FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER.

 14. CONTRACTOR SHALL CONTACT "DIG SAFE" (1-888-DIG-SAFE) PRIOR TO COMMENCEMENT OF WORK.

GENERATOR SPECIFICATIONS

THE ENGINE GENERATOR SHALL BE OF THE SAME QUALITY AS THE POLAR POWER 10kW GENERATOR

MODEL #: 8220K-972

GENERATOR SHALL BE 10KW/ STANDBY 24-500V ENCLOSED UNIT, SERVICE VOLTAGE SHALL MATCH THAT OF ENCLOSURE.

OVERALL SIZE: 24.5" x 18"W x 21"H

WFIGHT (WFT): 302 LBS.±

- ACOUSTICAL ENCLOSURE
 WITH CRITICAL EXHAUST SILENCER
 FLEXIBLE EXHAUST CONNECTOR
 STAINLESS STEEL
- BLOCK HEATER WITH THERMOSTAT
- TAIL PIPE AND RAIN CAP KIT BATTERY BATTERY RACK AND CABLES
- BATTERY CHARGER, EQUALIZE/FLOAT-TYPE
- COMMON FAILURE RELAY KIT

LOCAL FUEL GAS AND PLUMBING CODE APPLIES TO THE GENERATOR AND ITS COMPONENTS.

DC CABLE TYPE AND SIZING (2% DROP)							
	6KW	10KW	15KW				
10 FT (3 M)	#4	#3	#1				
20 FT (6 M)	#2	#1/0	#3/0				
50 FT (15 M)	#3/0	#250 kCMIL	#400 kCMIL				
100 FT (30 M)	#300 kCMIL	#500 kCMIL	#750 kCMIL				
150 FT (45 M)	#500 kCMIL	#750 kCMIL	#1250 kCMIL				
200 FT (60 M)	#600 kCMIL	#1000 kCMIL	#1500 kCMIL				

ABBREVIATIONS

COPPER ANTENNA GROUND BAR AMERICAN WIRE GAUGE BARE COPPER WIRE BASE TRANSMISSION SYSTEM COAX INSULATED GROUND BAR EXTERNAL ELECTRICAL METALLIC TUBING

GENERATOR
GLOBAL POSITIONING SYSTEM
GROWTH

INTERNAL GROUND RING (HALO) INIEMNAL GROUND RING (HALO)
LOWER ANTENNA COPPER GROUND BAR
MAIN CIRCUIT BREAKER
MASTER ISOLATED GROUND BAR
PERSONAL COMMUNICATION SYSTEM
POWER PROTECTION CABINET
PRIMARY RADIO CABINET
PRIMARY RADIO CABINET
PRIMARY RADIO CABINET
PRIMARY RADIO CABINET RIGID GALVANIZED STEEL RACEWAY TYPICAL
UPPER ANTENNA COPPER GROUND

Wiring Diagram for Porta Systems Block Model 899A Cable #2

Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm
1	1	2	2	3	3	4	4	5	5
Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm
6	6	7	7	8	8	9	9	10	10
Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm
11	11	12	12	13	13	14	14	15	15
Alarm 16	Alarm 16	Spare							
Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare
Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Afarm	Alarm	Alarm	Alarn
17	17	18	18	19	19	20	20	21	21
Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarn
22	22	23	23	24	24	25	25	26	26
Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm
27	27	28	28	29	29	30	30	31	31
Alarm 32	Alarm 32	Spare							
Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare

PANEL NAME: PROPOSED PTC CABINET

BRANCH CKT

2#12, 1#12G, 3/4"C

2#12, 1#12G, 3/4"C

2#12, 1#12G, 3/4"C

2#12, 1#12G, 3/4"C

BRANCH CKT

2#12, 1#12G, 3/4"C

2#12, 1#12G, 3/4"C

2#12, 1#12G, 3/4"C

2#12, 1#12G, 3/4"C

3#12, 1#12G, 3/4"C

2#12, 1#12G, 3/4°C

2#12, 1#12G, 3/4"C

2#12, 1#12G, 3/4"C 2#12, 1#12G, 3/4"C

MOUNTING: SURFACE

KVA LOAD DESCRIPTION

RECTIFIER #5

RECTIFIER #6

RECTIFIER #8

SPARE

SPARE

SPARE

TELCO RECEPTACLE 1 20 24

MANUFACTURER: INTERSECT, INC

20

20

20

20

18

20

26

28

30 32

36

38

40

42

1ø, 3W 120/240V, 200A

20

20 2

20

17 20

19 20

21 20

23 20

Cable

#1

P1Pin3 WH/OR

P1 Pin 4 OR/WH

P1 Pin 6 GRAWH-

P1 Pin 7 WH/BB

P1 Pin8 BR/WH

P2 Pin 1 WH/SL -

P2 Pin 3 RD/BL __

P2 Pin 4 RD/BL -

P2 Pin 7 RD/GR -

P2 Pin8 GR/RD

P3 Pin 2 BB /BD =

P3 Pin 3 RD/SL

P3 Pin 4 SL/RD

P3 Pin 5 BK/BL

P3 Pin 6 BL/BK

P3 Pin 7 BK/OR

P4Pin1 BK/GR

P4Pin 2 GR/BK

PAPINA BR/BK

P4Pin5 BK/SL

P4Pin7 YL/BL

PAPINS BL/YI

CKT BRKR P LOAD DESCRIPTION KVA

RECTIFIER #1

RECTIFIER #2

RECTIFIER #3

RECTIFIER #4

FLOODLIGHT

SPARE

SPARE

PE Pin 2 PI AVI

PS Pin3 WH/OR

PS Pin4 OR/WH

PS Pine GRAVH

PS Pin 7 WH/RE

P5 Pin8 BR/WH

P6 Pin1 WH/SL

P6 Pin3 RD/BL P6 Pin4 RD/BL

PE Pin 7 RD/GE

P6 Pin8 GR/RD

P7Pin2 BB/BD

P7Pin3 RD/SL

P7Pin5 BK/BI

P7Pin6 BL/BK

P7Pin7 BK/01

P7Pin8 OR/BI

P8 Pin1 BK/GF

P8 Pin3 BK/BR

PS Pin4 BR/BK

P8 Pin5 BK/SL

PS Pin 7 YL/BL

PS PinS BLAY

- - 80

- - 81

- - 87

RECEPTACLES

GEN BLOCK HEAT

8 - RJ45s P1 - P8



BBU P1 P2 P3 P4 P5 P6 P7 P8

AS BUILT

12/2/2016

lM. HEATH

ALARM DETAIL SCALE: N.T.S

ower Light Strobe Marm#18 Fail Generato Fail _ _ Alarm#10_ _ -arm#29 - - 81 -

EASTERN COMMUNICATIONS, INC.

CONSTRUCTION REPARED FOR verizon WESTBOROUGH, MA 01581 5081 330-3330 TEL



FOR



CHECKED BY:

DPH

APPROVED BY:

CLIDMITTALC

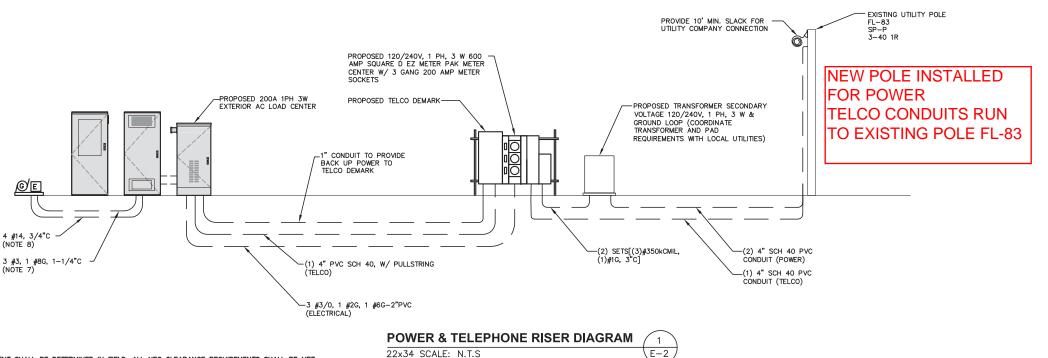
	SUBMITTALS					
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3	07/12/16	REVISED PER BID WALK	Н			
2	07/06/16	REVISED EQUIPMENT LAYOUT	Ξ			
1	02/09/16	FOR CONSTRUCTION	М			
0	07/31/15	FOR CONSTRUCTION	Ξ			

PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE ELECTRICAL NOTES WIRING DIAGRAM

SHEET NUMBER



NOTES:

 EXACT LOCATIONS OF ALL EQUIPMENT SHALL BE DETERMINED IN FIELD. ALL NEC CLEARANCE REQUIREMENTS SHALL BE MET.
 REFER TO "A" AND "C" DWGS FOR EXACT ROUTING OF ALL CONDUITS.
 VERIZON CONSTRUCTION MANAGER SHALL COORDINATE ALL ELECTRICAL WORK WITH UTILITY COMPANY.
 REFER TO DETAILS ON DWG E-3 FOR ADDITIONAL INFORMATION. TYPICAL BURRIED CONDUIT DETAIL SHALL APPLY TO ALL UNDERGROUND CONDUIT

UNDERGROUND CONDUIT.

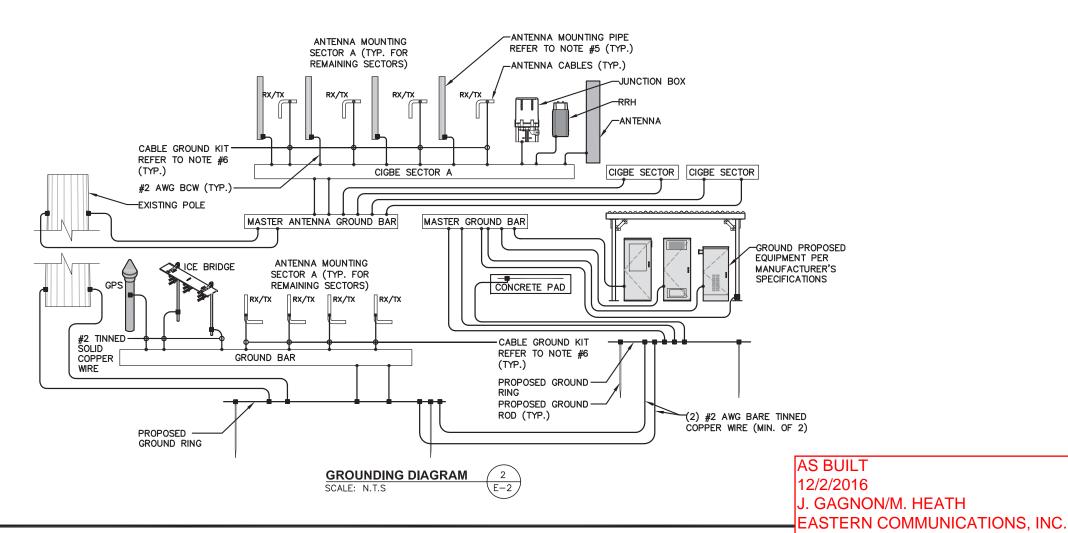
#350 KCMIL CONDUCTORS HAVE BEEN SELECTED FOR VOLTAGE DROP. THE LOCATION OF THE TRANSFORMER HAS BEEN ASSUMED TO BE NEAR THE CELL SITE ENCLOSURE. IF THE LOCATION IS CLOSER TO THE ACCESS ROAD THE CONDUCTORS SHALL BE ADJUSTED WITH APPROVAL OF THE ENGINEER.

6. INSTALL (2) PULL STRINGS AND CAP THE TELCO CONDUITS INSIDE THE VAULT AND MESA CABINET TO AVOID WATER/ICE FILL UP.

7. LOCATION OF GENERATOR ASSUMED TO BE WITHIN 10'-O" OF PROPOSED LOAD CENTER. IF LOCATION OF GENERATOR IS CHANGED, CONDUCTOR SIZE SHALL BE RESIZED BASED ON DC CABLE TYPE AND SIZING TABLE ON E-1

8. CONFIRM EXACT AUTO-START REQUIREMENTS WITH MANUFACTURER.

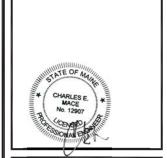
9. PROVIDE SERVICE GROUNDING IN ACCORDANCE WITH NEC ARTICLE 250.



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FOR



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DPH

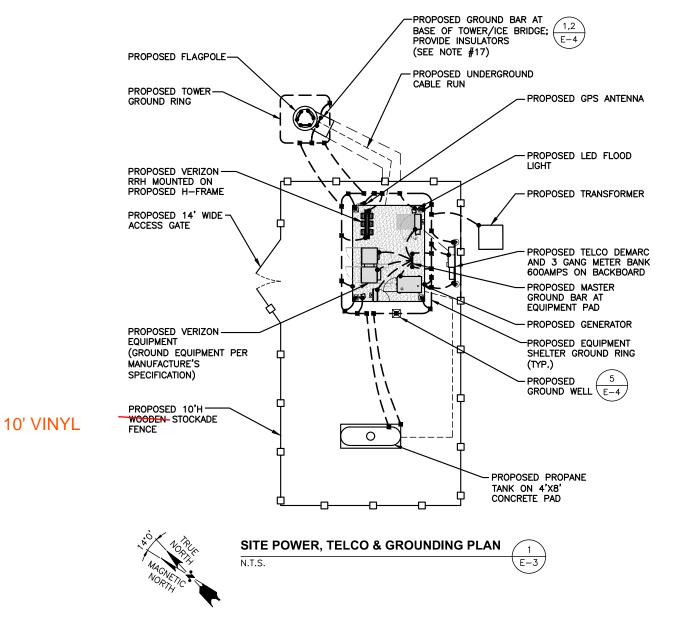
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1	02/09/16	FOR CONSTRUCTION	MR			
0	07/31/15	FOR CONSTRUCTION	HH			

PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE ELECTRICAL ONE-LINE AND GROUNDING DIAGRAM

E-2



GROUNDING NOTES

- ALL GROUND WIRE SHALL BE BARE COPPER #2 AWG UNLESS OTHERWISE NOTED.
- 2. ALL GROUND WIRES SHALL PROVIDE A STRAIGHT,
 DOWNWARD PATH TO GROUND WITH GRADUAL BENDS
 AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED
 OR SHARPLY BENT.
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE
 INSTALLATION OF GROUND RODS AND GROUND RING
 WITH FOUNDATION AND UNDERGROUND CONDUIT.
- 4. EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR (MIGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT CABINETS SHALL EACH HAVE (2) CONNECTIONS.
- 5. PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED CIGBE (TYPICAL FOR FOUR MOUNTING PIPES PER SECTOR).
- 6. ANTENNA GROUND KITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 7. COORDINATE NEW LICENSEE GROUND SYSTEM WITH EXISTING SITE GROUND SYSTEM.
- EACH SECTION OF CABLE TRAY, ICE BRIDGE AND ICE SHIELD SHALL BE CONNECTED IN A FASHION TO PROVIDE A CONTINUOUS GROUND.
- 9. AT ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANELS AND FRAMES OF EQUIPMENT, AND WHERE EXPOSED FOR GROUNDING, CONDUCTOR TERMINATION SHALL BE PERFORMED UTILIZING TWO HOLE BOLTED TONGUE COMPRESSION TYPE WITH STAINLESS STEEL SELF—TAPPING SCREWS.
- 10. ALL CLAMPS AND SUPPORTS USED TO SUPPORT THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE PVC TYPE (NON CONDUCTIVE). DO NOT USE METAL BRACKETS OR SUPPORTS WHICH WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
- 11. ALL GROUNDING CONNECTIONS SHALL BE COATED WITH A COPPER SHIELD ANTI-CORROSIVE AGENT SUCH AS T&B KOPR SHIELD. VERIFY PRODUCT WITH LICENSEE PROJECT MANAGER.
- 12. ALL BOLTS, WASHERS, AND NUTS USED ON GROUNDING CONNECTIONS SHALL BE STAINLESS STEEL.
- 13. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUS IN THE PANELBOARD.
- 14. GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
- 15. GROUND COAXIAL SHIELD AT BOTH ENDS USING MANUFACTURER'S GUIDELINES.
- 16. REINFORCEMENT IN EQUIPMENT SLAB TO BE WELDED AND REINFORCEMENT TO BE BONDED TO GROUNDING RING.
- 17. CONCRETE—ENCASED ELECTRODES GREATER THAN 20 S.F. OF SURFACE AREA & 1/2" OR GREATER REINFORCING STEEL MUST BE BONDED TO THE GROUNDING RING PER NEC 250.50.
- 18. ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

GROUNDING LEGEND

- EXOTHERMIC TYPE CONNECTION
- COMPRESSION TYPE CONNECTION

#2 SOLID TINNED COPER WIRE UNLESS OTHERWISE NOTED



5/8" x 10'-0" COPPER CLAD GROUND ROD



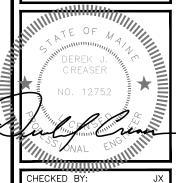
AS BUILT 12/2/2016 J. GAGNON/M. HEATH EASTERN COMMUNICAITONS, INC. PREPARED FOR:

Verizon

118 FLANDERS ROAD
WESTBOROUGH, MA 01581
(508) 330-3330 TEL

FOR





APPROVED BY: DPH

	SUBMITTALS					
ı	REV.	DATE	DESCRIPTION	BY		
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ı	3	07/12/16	REVISED PER BID WALK	Ξ		
ı	2	07/06/16	REVISED EQUIPMENT LAYOUT	Ħ		
ı	1	02/09/16	FOR CONSTRUCTION	MR		
ı	0	07/31/15	FOR CONSTRUCTION	НН		

SITE NAME:
PORTLAND 3 ME

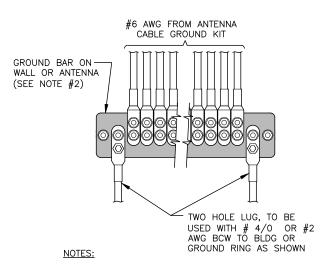
SITE ADDRESS:
476 SUMMIT STREET
PORTLAND, ME 04103

SHEET TITLE

GROUNDING PLAN

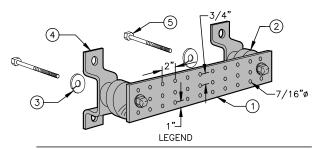
SHEET NUMBER

E-3



- CONTRACTOR TO UTILIZE KOPR-SHIELD
 (THOMAS & BETTS) ON ALL LUG CONNECTIONS.
- 2. ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

GROUNDING - STANDARD DETAIL INSTALLATION OF GROUNDWIRE TO GROUND BAR SCALE: N.T.S



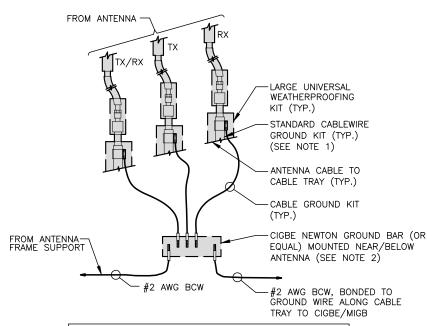
- (1) GALVANIZED STEEL GROUND BAR, 1/4"x4"x20", OR OTHER LENGTH AS REQUIRED, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- 2 INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL.
- 3 5/8" LOCKWASHERS OR EQUAL.
- (4) WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-8056 OR EQUAL.
- 5 5/8-11 x 1" H.H.C.S. BOLTS

NOTES:

- 1. ALL BOLTS, NUTS, WASHERS, AND LOCK WASHERS SHALL BE 18-8 STAINLESS STEEL.
- ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

GROUNDING - STANDARD
DETAIL GROUND BAR
SCALE: N.T.S





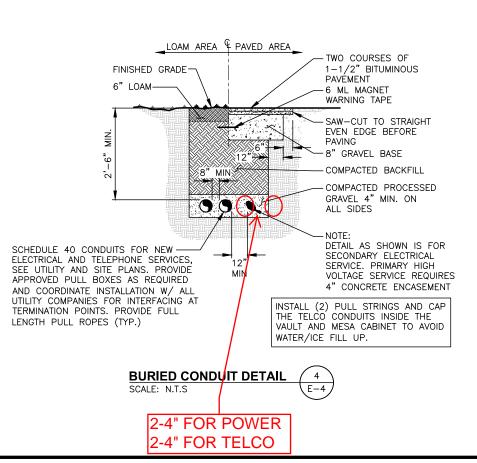
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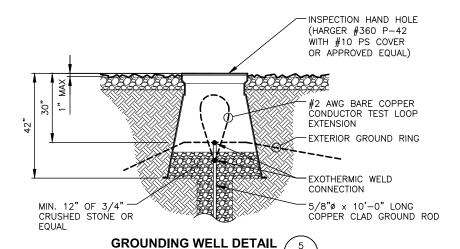
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

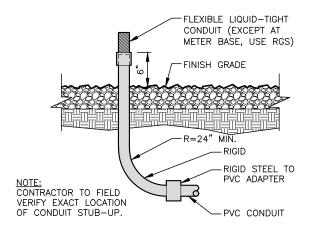
2. ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

GROUNDING - STANDARD DETAIL CONNECTION OF GROUND WIRES TO GROUND BAR (CIGBE)

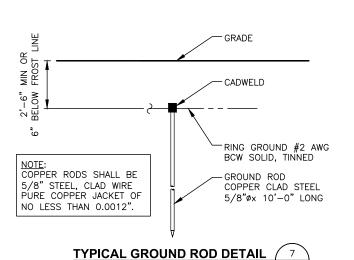
SCALE: N.T.S







CONDUIT STUB-UP



AS BUILT 12/2/2016 J. GAGNON/M. HEATH EASTERN COMMUNICAITONS, INC.

PREPARED FOR:

Verizon

I18 FLANDERS ROAD
WESTBOROUGH, MA 01581
[508] 330-3330 TEL



FOR

00 OSGOOD STREET

JILDING 20 NORTH, SUITE 3090

ANDOVER, MA 01845

FAX: [978] 336-55

NO. 12752

NO. 12752

CHECKED BY:

JAMES AT E OF MANAGEMENT OF MANAGEMEN

APPROVED BY: DPH

SUBMITTALS

REV. DATE DESCRIPTION BY

3 07/12/16 REVISED PER BID WALK HH

2 07/06/16 REVISED EQUIPMENT LAYOUT HH

1 02/09/16 FOR CONSTRUCTION MR

0 07/31/15 FOR CONSTRUCTION HH

SITE NAME:
PORTLAND 3 ME

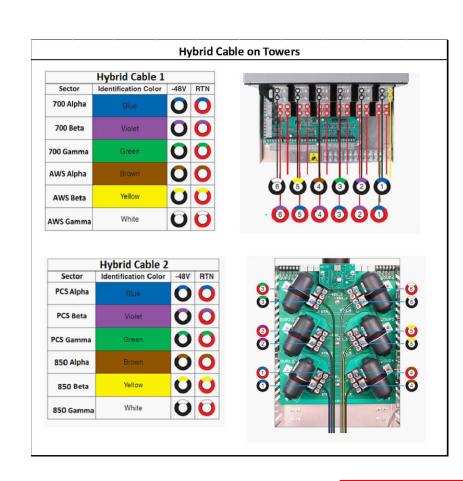
SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE
ELECTRICAL/
GROUNDING
DETAILS

SHEET NUMBER

E-4

Color Pairs	Sector	Cable Length (FT)		
Blue + Red				
Blue + Yellow				
Blue + Green				
Dide + Green		A&E to estimate cable lengths based on drawings. CM's		
Phys. J. Durnle				
Blue + Purple		to use as reference		
1	A 1 I	only. CM must		
	Alpha	verify and provide		
Diversi Descrip		their revised		
Blue + Brow n		numbers to		
		Operations for		
		material ordering		
Dive I O				
Blue + Green		150'		
White + Red				
White + Yellow				
White + Green		A&E to estimate		
		cable lengths based on drawings. CM's to use as reference		
White + Purple				
	to use as referen			
		verify and provide		
	their revise			
White + Brow n		numbers to		
Opera		Operations for		
		material ordering		
		material ordering		
White + Green		150'		
		150		
Orange + Red				
Orange + Yellow				
Orange + Green		A P.E to actionate		
		A&E to estimate		
		cable lengths based		
Orange + Purple		on drawings. CM's		
à		to use as reference		
	Gamma	only. CM must verify and provide		
		their revised		
Orange + Brown				
		numbers to		
		Operations for		
3		material ordering		
White + Green		150'		
		I 130		
	vvnite + Green	White + Green		



PREPARED FOR:

Verizon

118 FLANDERS ROAD
WESTBOROUGH, MA 01581
(508) 330-3330 TEL



1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 N. ANDOVER, MA 01845 TEL: (978) 557-5553 FAX: (978) 336-5586

CHECKED BY: J

DPH

APPROVED BY:

SUBMITTALS

EV. DATE DESCRIPTION I

SITE NAME:
PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE

RF COLOR CODE

LINE COLOR CODE

SCALE: N.T.S



CABLE COLOR CODE

SCALE: N.T.S



AS BUILT 12/2/2016 M. HEATH EASTERN COMMUNICAITONS, INC. SHEET NUMBER

RF-1

ANTENNA DESIGN TO BE PROVIDED BY RF ENGINEER verizon



1600 OSGOOD STREET BUILDING 20 NORTH, SUITE 3090 TEL: (978) 557-5553 N. ANDOVER, MA 01845 FAX: (978) 336-5586

CHECKED BY:

APPROVED BY:

SUBMITTALS

DPH

REV.	DATE	DESCRIPTION	BY			

SITE NAME:
PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE

RF ANTENNA DESIGN

SHEET NUMBER

G.C. TO VERIFY LATEST RF ANTENNA

PRIOR TO CONSTRUCTION.

RF-2

RF ANTENNA DESIGN
SCALE: N.T.S

 $\frac{1}{\mathsf{RF}-2}$