

PREPARIO VOID IN STREET OF THE PROPERTY OF THE

verizon V



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

CHECKED BY:

APPROVED BY:

SUBMITTALS

2 07/06/16 REVISED FOUIPMENT LAYOUT

PORTLAND 3 ME

SITE ADDRESS:

476 SUMMIT STREET

02/09/16 FOR CONSTRUCTION

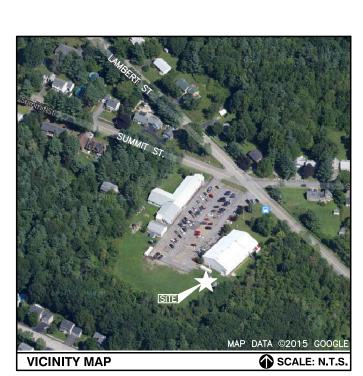
0 07/31/15 FOR CONSTRUCTION

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

SHEET INDEX					
SHT. NO.	DESCRIPTION				
T-1	TITLE SHEET				

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

PORTLAND, ME 04103

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TITLE SHEET

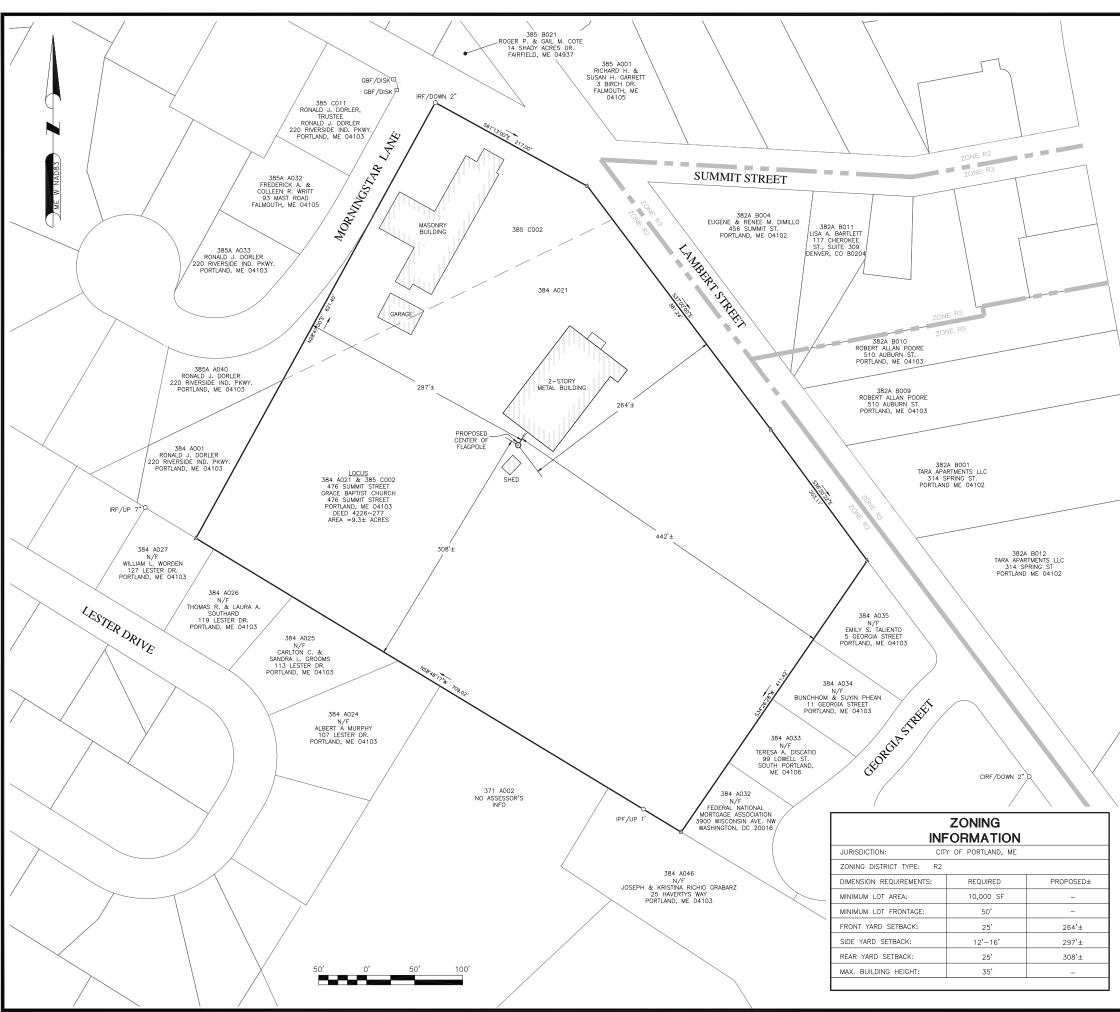
SHEET NUMBER

T-1

72 HOURS

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

UNDERGROUND SERVICE ALERT



LEGEND

PROPERTY LINE - SUBJECT PARCEL ABUTTERS PROPERTY LINE

CONTOUR LINE

 UNDERGROUND UTILITY LINE ─ ○ GUARD RAIL CHAIN LINK FENCE

PAINTED WHITE LINE PAINTED YELLOW LINE

CONIFEROUS TREE

CATCH BASIN

ROOF DRAIN

POST/BOLLARD WATER GATE VALVE

MANHOLE, UNKNOWN

DRAIN MANHOLE

TELEPHONE MANHOLE m 0 GAS METER

GAS GATE VALVE

UTILITY POLE

SIGN ● ☐ MONUMENTS, AS DESCRIBED

Δ 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

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

7. APPLICANT:

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:

verizon

18 FLANDERS ROAD VESTBOROUGH, MA 0158



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







APPROVED BY

DFS

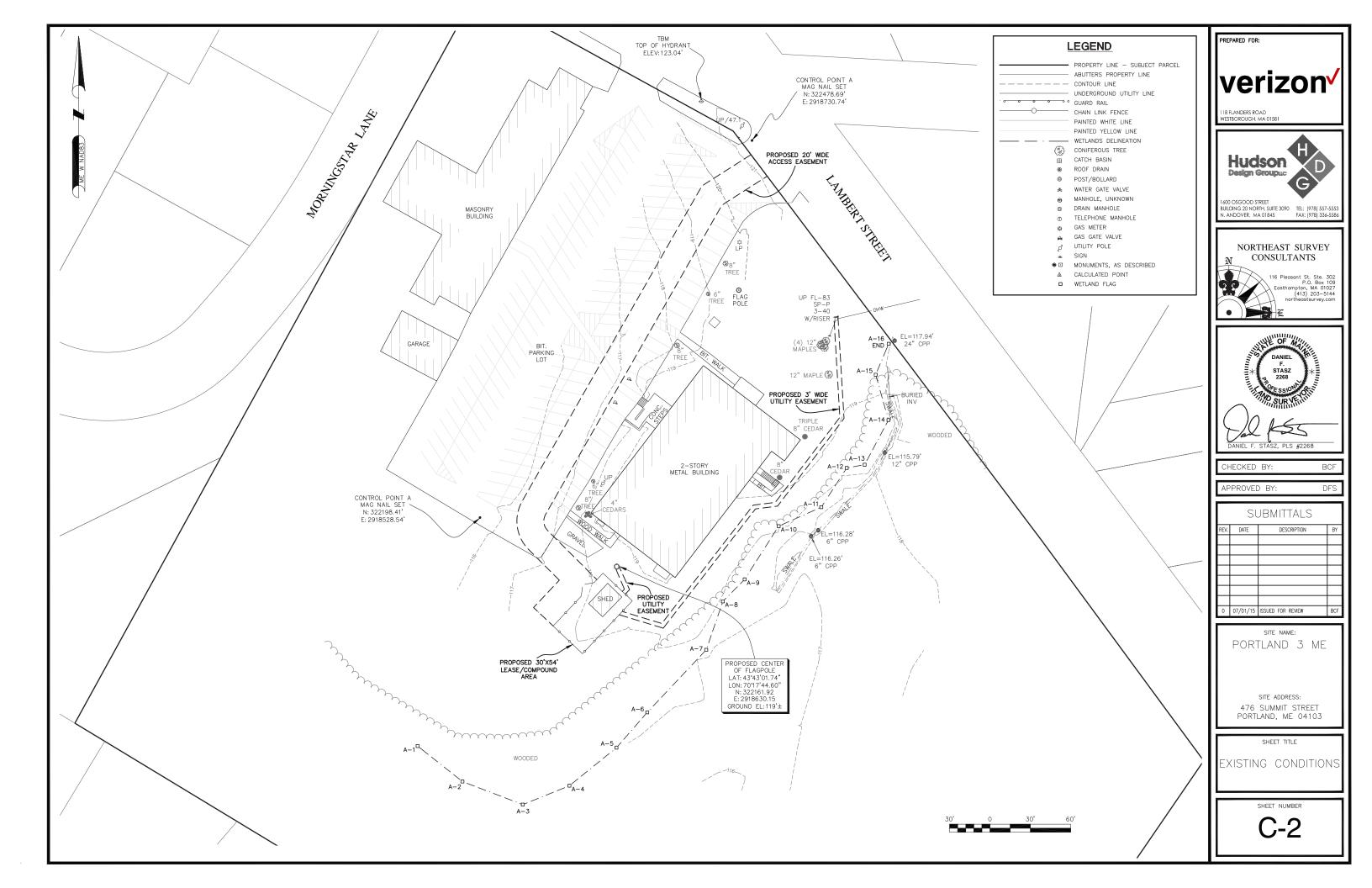
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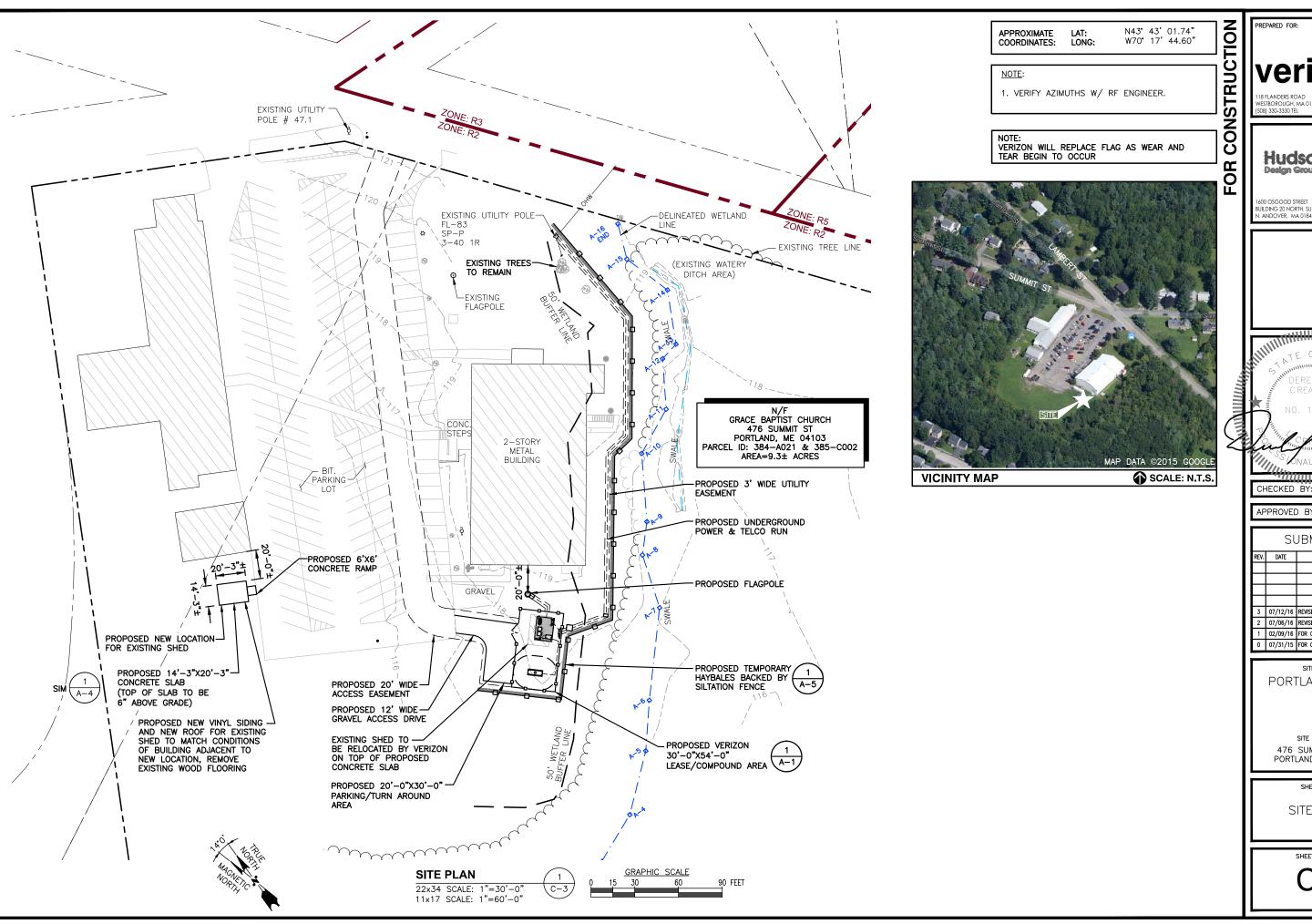
PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE

ABUTTERS PLAN





verizon

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



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

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APPROVED BY:

DPH

	SUBMITTALS						
REV.	DATE	DESCRIPTION	BY				
3	07/12/16	REVISED PER BID WALK	Ŧ				
2	07/06/16	REVISED EQUIPMENT LAYOUT	Ŧ				
1	02/09/16	FOR CONSTRUCTION	MR				
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PORTLAND 3 ME

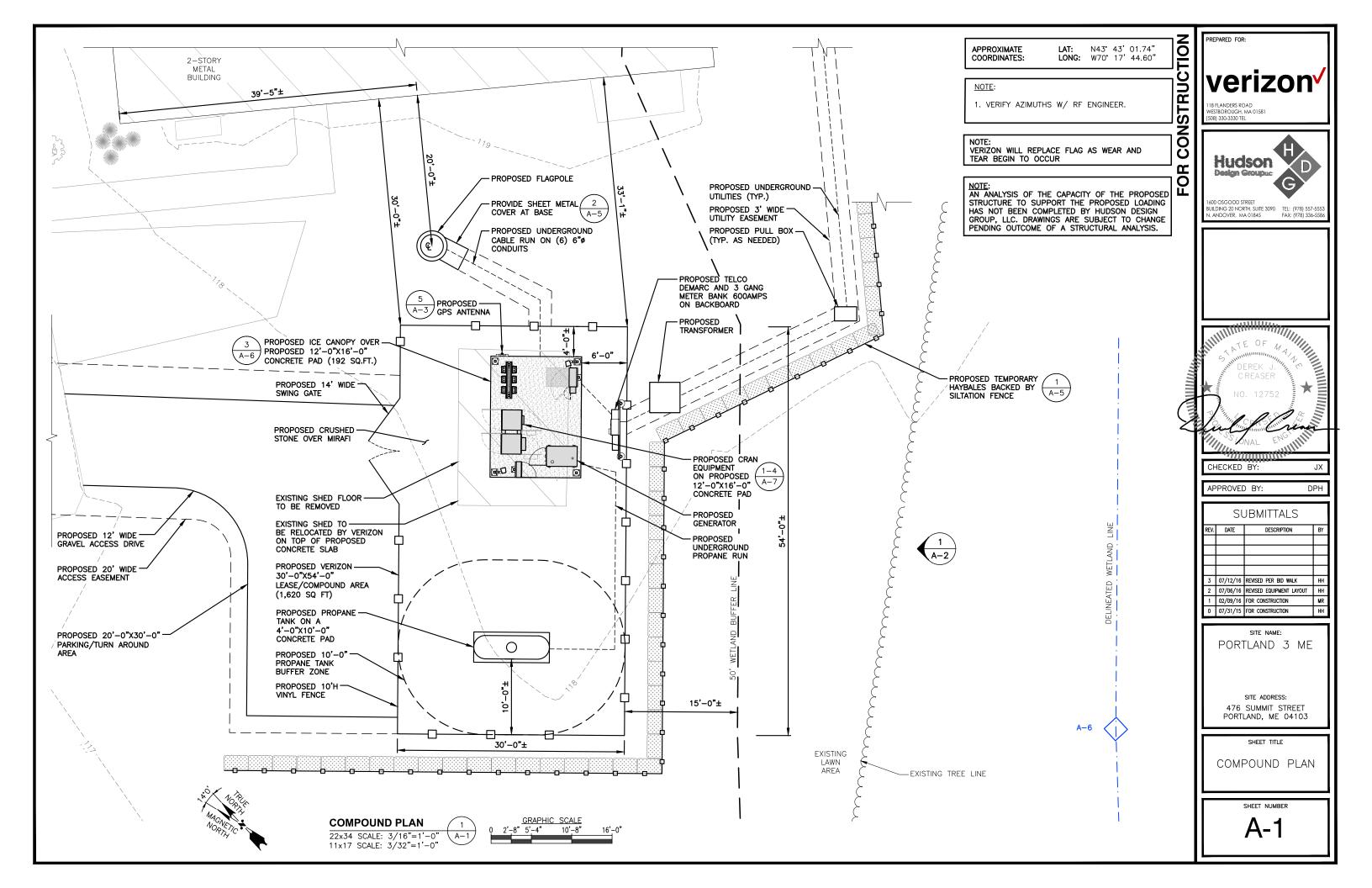
SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

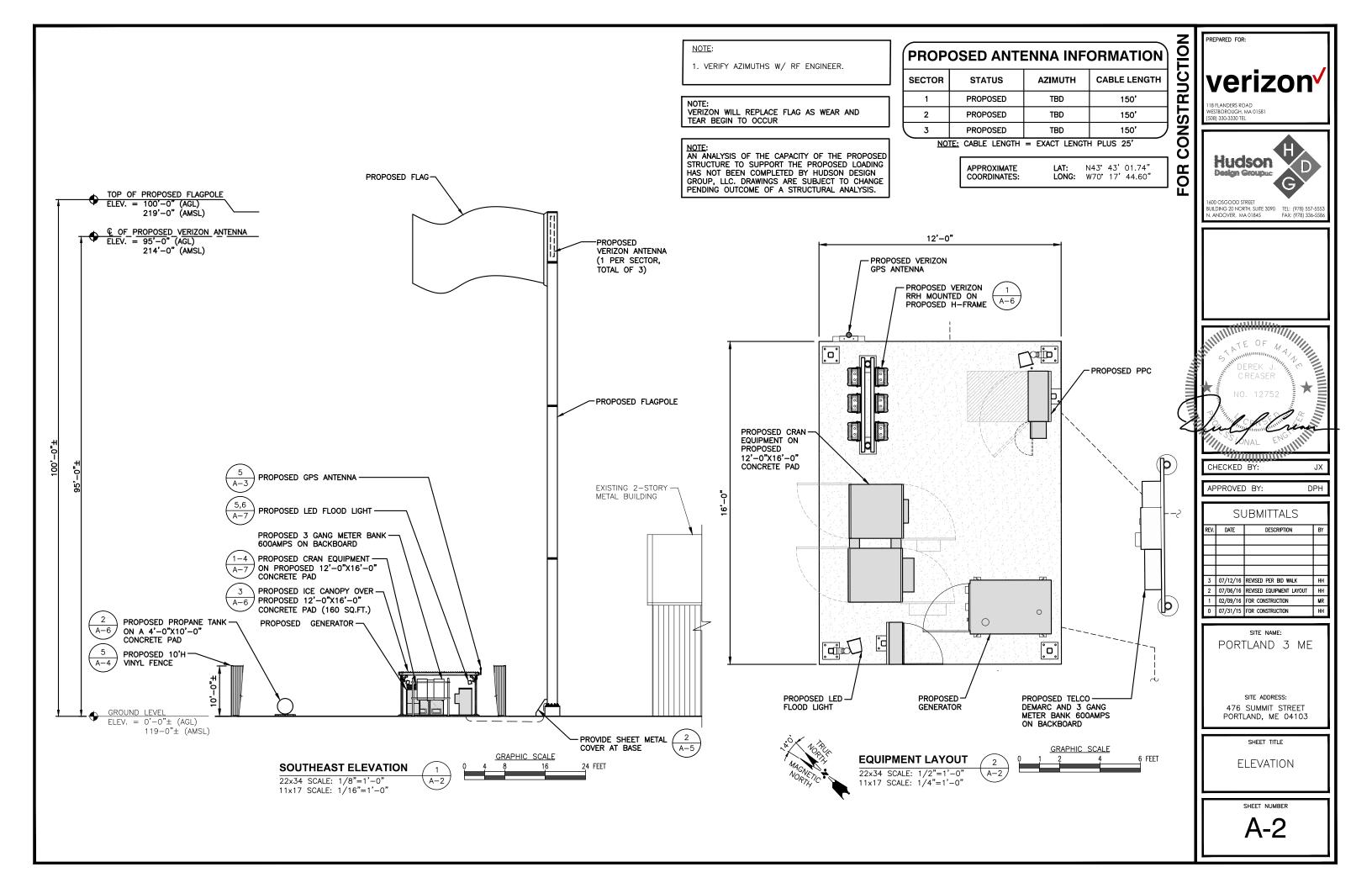
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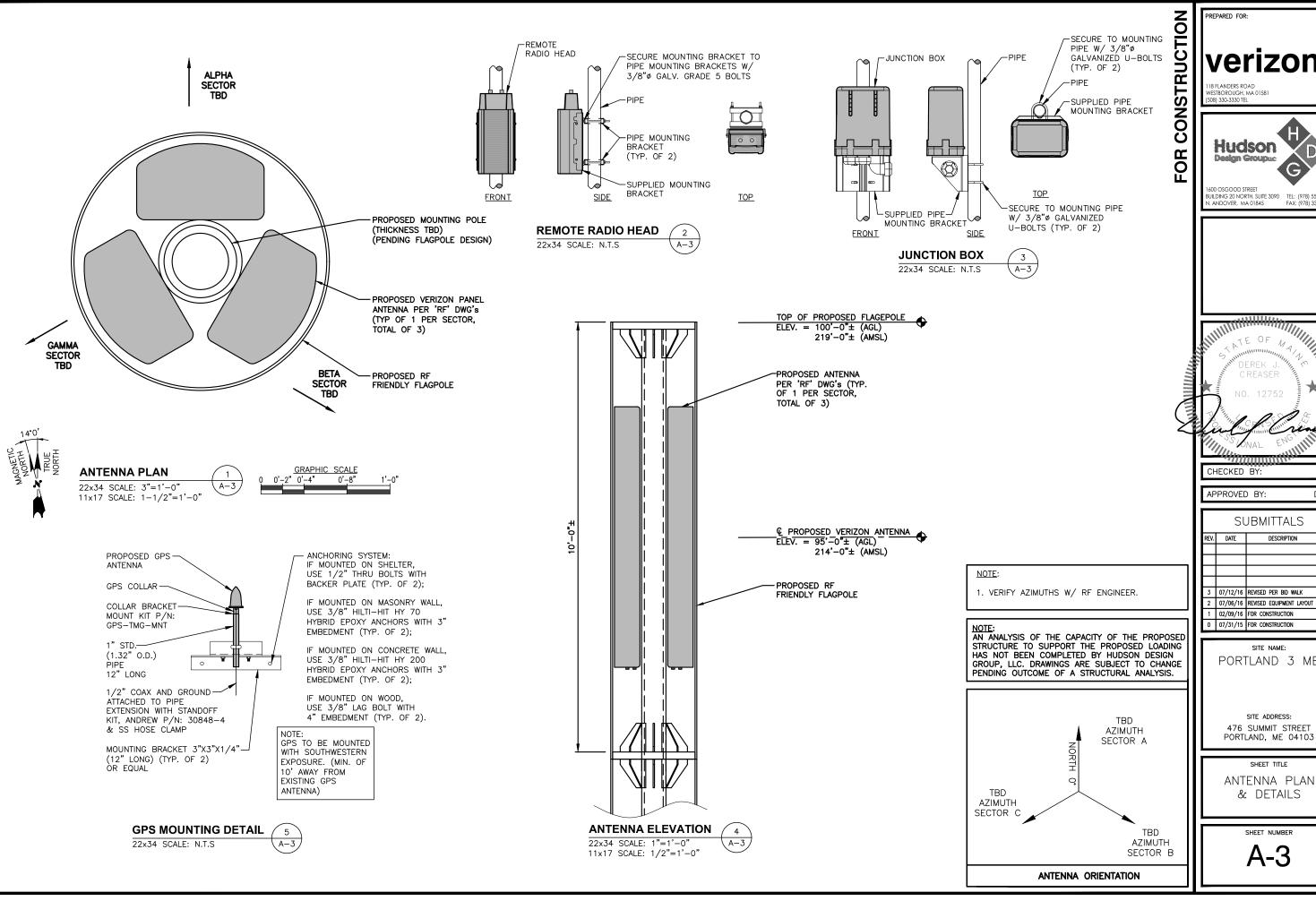
SITE PLAN

SHEET NUMBER

C-3







PREPARED FOR: 18 FLANDERS ROAD VESTBOROUGH, MA 01581 5081 330-3330 TEL

> Hudson Design Groupus

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

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CHECKED BY:

APPROVED BY:

DPH

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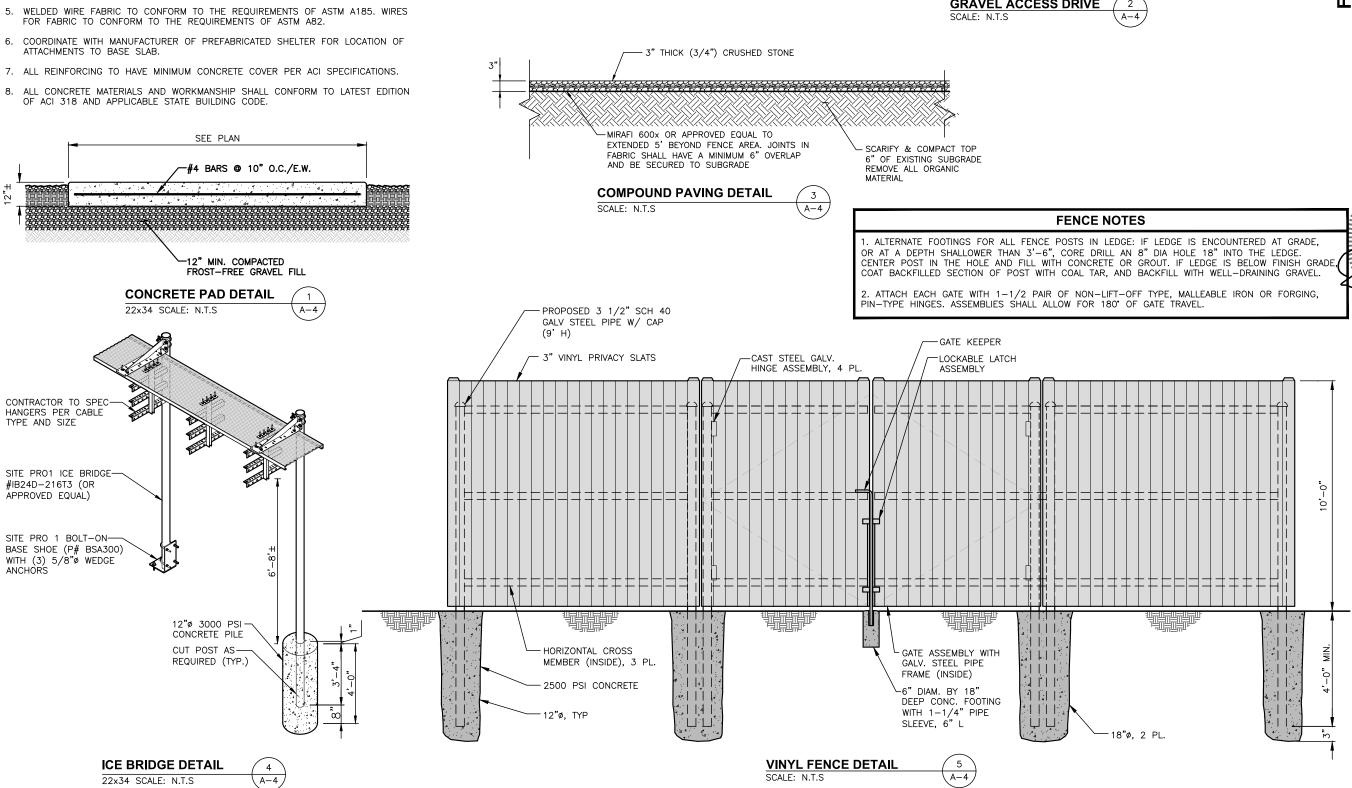
SITE NAME: PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET

SHEET TITLE ANTENNA PLAN & DETAILS



- 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.



MAINE DOT (2014) STANDARD SPECIFICATIONS

ROAD SURFACE

MATERIAL

ALL MATERIAL LESS THAN

2" IN SIZE

WEIGHT

85-100

70-100

55-85

20 - 35

7-12

IS SMALLER

THAN

3/4"

½"

1/4"

#40 (SAND)

#200 (SILT)

ROAD BASE

MATERIAL

ALL MATERIAL LESS THAN

6" IN SIZE

WEIGHT

78-100

55-75

30-55

8-22

0 - 7

IS SMALLER

THAN

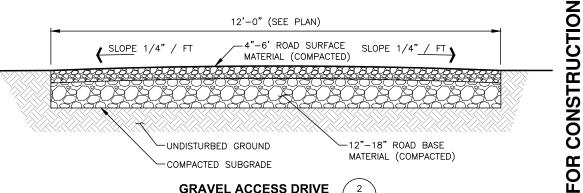
1 ½"

3/4"

1/4"

#40 (SAND)

#200 (SILT)



GRAVEL ACCESS DRIVE





ANDOVER, MA 01845

FAX: (978) 336-55

ATE OF MA CHECKED BY

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DPH

PORTLAND 3 ME SITE ADDRESS:

476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE

DETAILS

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.

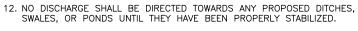
EROSION CONTROL MEASURES:

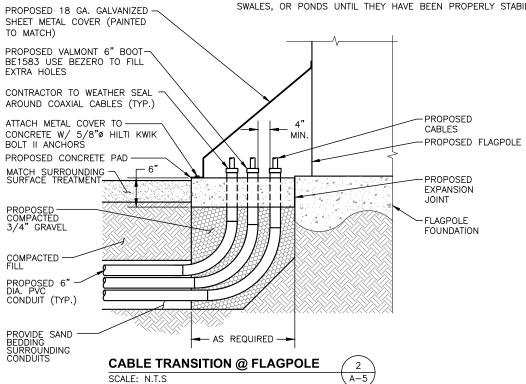
- 1. DISTURBED AREAS SHALL BE KEPT TO THE MINIMUM AREA NECESSARY TO CONSTRUCT THE ROADWAYS AND ASSOCIATED DRAINAGE FACILITIES.
- 2. HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 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:

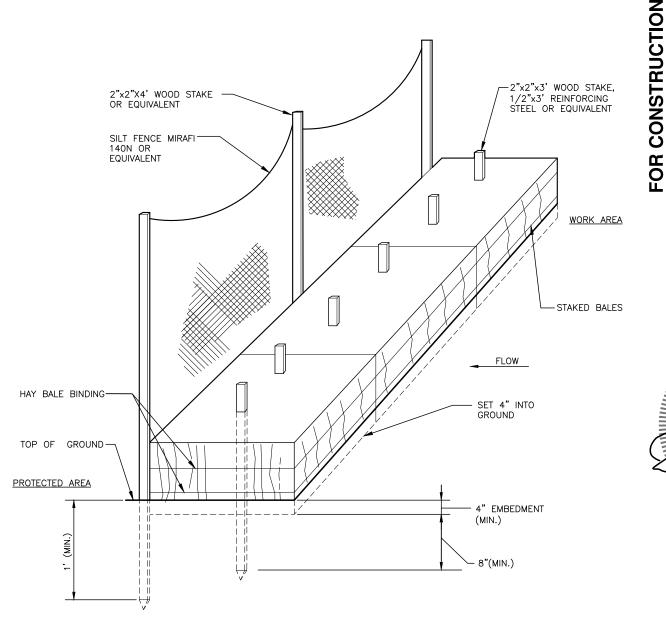
	LIMESTONE:	75-100 LBS./1,000 SQ FT	
	FERTILIZER:	RATE RECOMMENDED BY MAN	JFACTURER
	MULCH:	HAY MULCH APPROXIMATELY 3	TON/ACRE UNLESS
ROSION		CONTROL MATTING	IS USÉD
	SEED MIX:	(SLOPES LESS THAN 4:1)	LBS./ACRE
		CREEPING RED RESCUE	20
		TALL RESCUE	20
		REDTOP	2
			40

(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







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

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

Hudson Design Groupus

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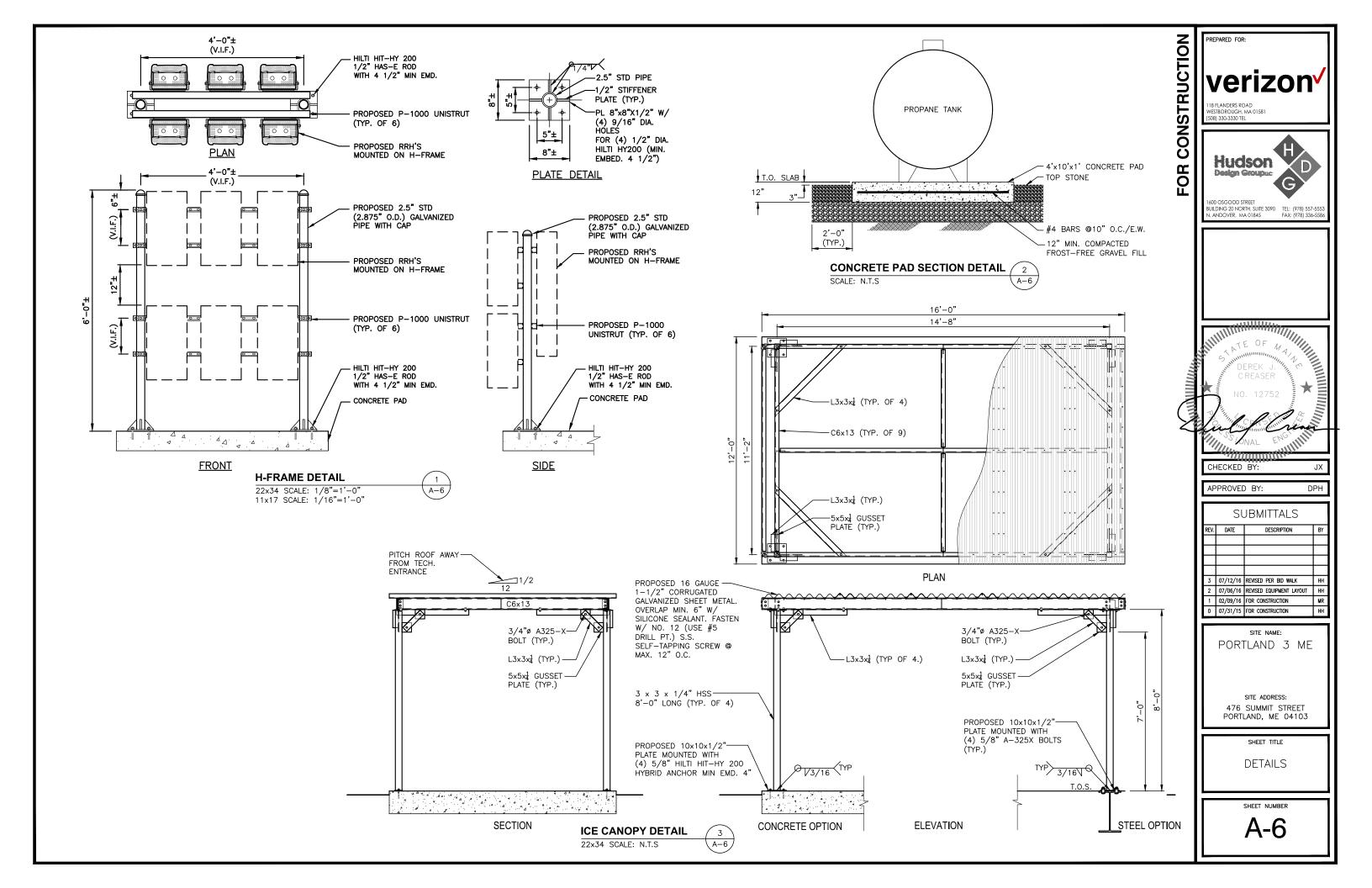
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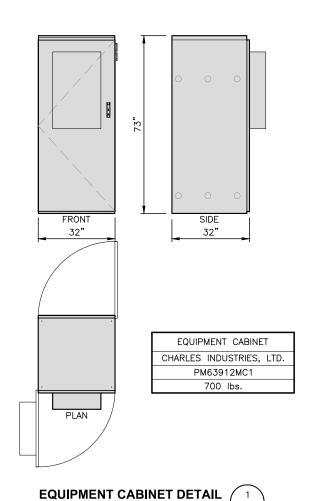
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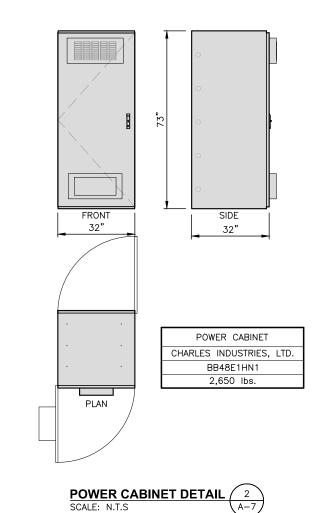
476 SUMMIT STREET PORTLAND, ME 04103

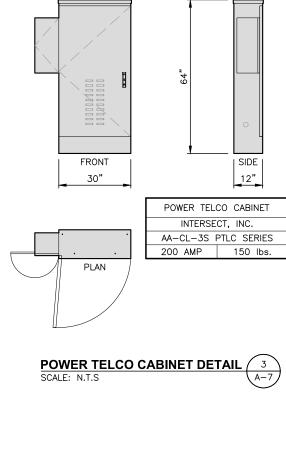
SHEET TITLE **EROSION CONTROL** NOTES & DETAILS

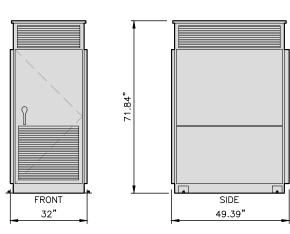


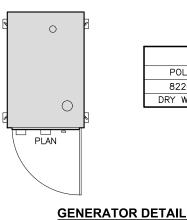


SCALE: N.T.S

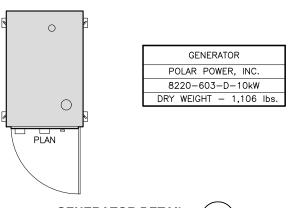








SCALE: N.T.S





RAB LIGHTING - FFLED18DC BRONZE

MOUNT PER MANUFACTURER'S SPECIFICATIONS.

LED FLOOD LIGHT DETAIL SCALE: N.T.S



INTERMATIC WP1220C

TYPE: HINGE: INSERT: WP217 DEPTH: 2-1/4" COLOR: CLEÁR

DOUBLE GANG VERTICAL

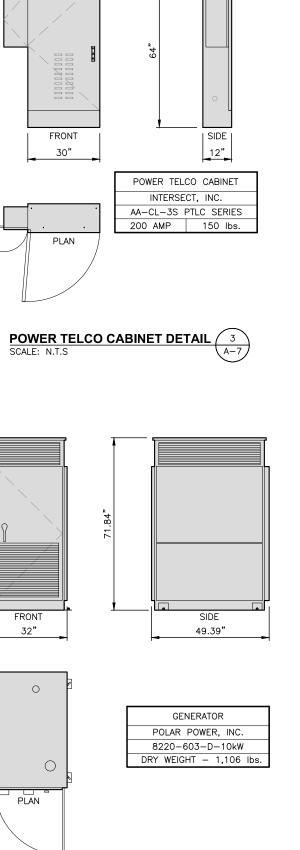
TIME CYCLE: 6 HOURS SWITCH: SPST

OR APPROVED EQUIVALENT

INTERMATIC FF6H

OR APPROVED EQUIVALENT

SWITCH DETAIL SCALE: N.T.S



PREPARED FOR: verizon

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

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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 COILED WITH SUFFICIENT LENGTH TO REACH
 THE FLOOR.

 15. ALL ALARM WIRES SHALL BE TAGGED AND LABELED WITH THE APPROPRIATE ALARM
- 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 UWINER AND LOUGH 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.
 THE 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

WEIGHT (WET): 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

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

Fail

Generato Fail

Alarm#10_

Tower Light 31

MANUFACTURER: INTERSECT, INC

20

20

20

20

18

20

26

28

30 32

38

40

42

1ø, 3W 120/240V, 200A

20 2

20 2

20 2

17 20

19 20

21 20

23 20

Cable

#1

P1Pin3 WH/OR

P1Pin4 OB/WH

P1 Pin 6 GR /WH-

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 6 OR/RD

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

P3 Pin8 OR/BK

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

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	Alarm	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

8 - RJ45s P1 - P8



BBU P1 P2 P3 P4 P5 P6 P7 P8



CONSTRUCTION FOR

ower Light Strobe

Marm#18

arm#29

_ _

_ -

- - 81

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





CHECKED BY:

DPH

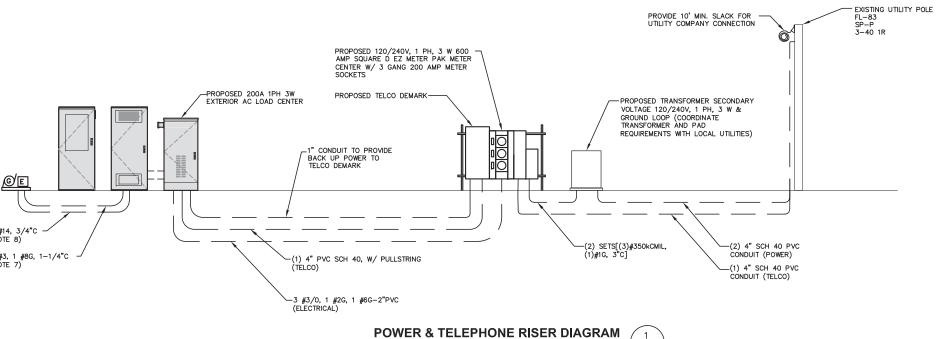
APPROVED BY:

	SUBMITTALS						
REV.	DATE	DESCRIPTION	BY				
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2	07/06/16	REVISED EQUIPMENT LAYOUT	Ħ				
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 ELECTRICAL NOTES WIRING DIAGRAM



NOTES:

22x34 SCALE: N.T.S

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

UNDERGROUND CONDUIT.

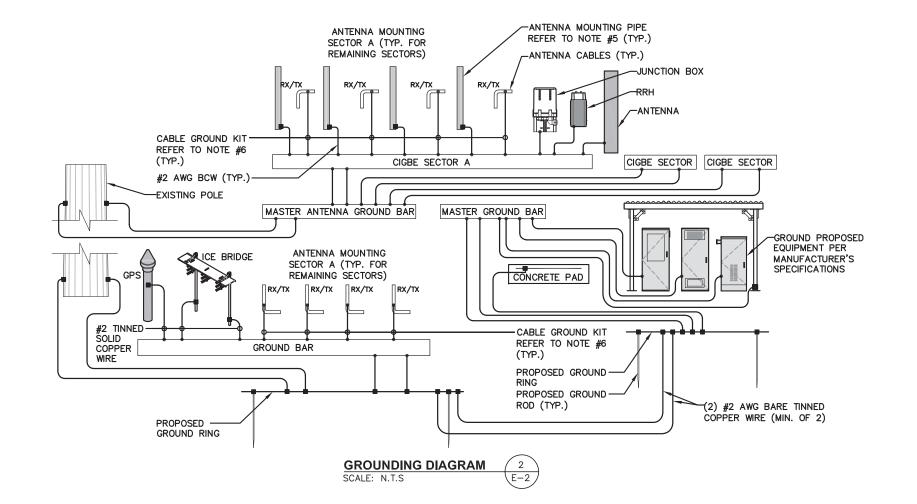
5. #350 KCMIL CONDUCTORS HAVE BEEN SELECTED FOR VOLTAGE DROP. THE LOCATION OF THE TRANSFORMER HAS BEEN ASSUMED TO BE NEAR THE CELL SITE ENCLOSURE. IF THE LOCATION IS CLOSER TO THE ACCESS ROAD THE CONDUCTORS SHALL BE ADJUSTED WITH APPROVAL OF THE ENGINEER.

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'-0" 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. CONTRIM EXACT AUTO-START REQUIREMENTS WITH MANUFACTURER.

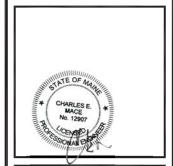
9. PROVIDE SERVICE GROUNDING IN ACCORDANCE WITH NEC ARTICLE 250.



CONSTRUCTION PREPARED FOR: WESTBOROUGH, MA 01581 (508) 330-3330 TEL



FOR



CHECKED BY:

APPROVED BY: DPH

JX

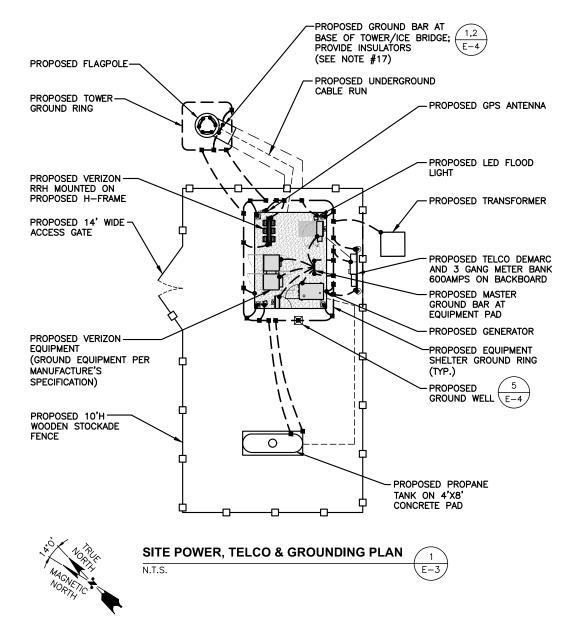
SUBMITTALS DESCRIPTION 2 07/06/16 REVISED EQUIPMENT LAYOUT HH 02/09/16 FOR CONSTRUCTION

PORTLAND 3 ME

0 07/31/15 FOR CONSTRUCTION

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SHEET TITLE ELECTRICAL ONE-LINE AND GROUNDING DIAGRAM



- 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.
- INSTALLATION OF GROUND RODS AND GROUND RING WITH FOUNDATION AND UNDERGROUND CONDUIT.
- EACH EQUIPMENT CABINET SHALL BE CONNECTED TO THE MASTER ISOLATION GROUND BAR (MIGB) WITH #2 AWG INSULATED STRANDED COPPER WIRE. EQUIPMENT
- PROVIDE DEDICATED #2 AWG COPPER GROUND WIRE FROM EACH ANTENNA MOUNTING PIPE TO ASSOCIATED CIGBE (TYPICAL FOR FOUR MOUNTING PIPES PER SECTOR)
- INSTALLED BY ELECTRICAL CONTRACTOR.
- COORDINATE NEW LICENSEE GROUND SYSTEM WITH EXISTING SITE GROUND SYSTEM.
- SHIELD SHALL BE CONNECTED IN A FASHION TO
- 9. AT ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANELS AND FRAMES OF EQUIPMENT, AND WHERE SHALL BE PERFORMED UTILIZING TWO HOLE BOLTED TONGUE COMPRESSION TYPE WITH STAINLESS STEEL SELE-TAPPING SCREWS
- 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
- 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.
- GROUNDING CONNECTIONS SHALL BE STAINLESS
- 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.
- 16. REINFORCEMENT IN EQUIPMENT SLAB TO BE WELDED AND REINFORCEMENT TO BE BONDED TO GROUNDING
- 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



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

GROUNDING NOTES

- ALL GROUND WIRE SHALL BE BARE COPPER #2 AWG
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE
- CABINETS SHALL EACH HAVE (2) CONNECTIONS.
- ANTENNA GROUND KITS SHALL BE FURNISHED AND
- EACH SECTION OF CABLE TRAY, ICE BRIDGE AND ICE
- PROVIDE A CONTINUOUS GROUND.
- EXPOSED FOR GROUNDING, CONDUCTOR TERMINATION
- 10. ALL CLAMPS AND SUPPORTS USED TO SUPPORT THE CONDUCTOR.
- 12. ALL BOLTS, WASHERS, AND NUTS USED ON
- 13. INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND
- 15. GROUND COAXIAL SHIELD AT BOTH ENDS USING MANUFACTURER'S GUIDELINES.

ÖTHERWISE NOTED



GROUND WELL

CONSTRUCTION REPARED FOR verizon 18 FLANDERS ROAD WESTBOROUGH, MA 01581 508) 330-3330 TEL

FOR





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DPH

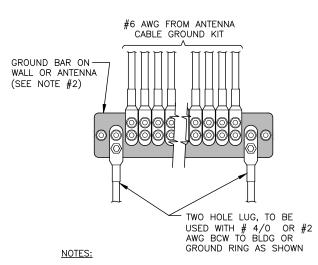
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	REV.	DATE	DESCRIPTION	BY			
ı							
ı	3	07/12/16	REVISED PER BID WALK	Ξ			
ı	2	07/06/16	REVISED EQUIPMENT LAYOUT	HH			
ı	1	02/09/16	FOR CONSTRUCTION	MR			
	0	07/31/15	FOR CONSTRUCTION	НН			
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PORTLAND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

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

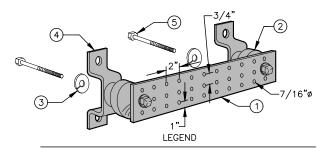
SHEET TITLE

GROUNDING PLAN



- 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 E-4

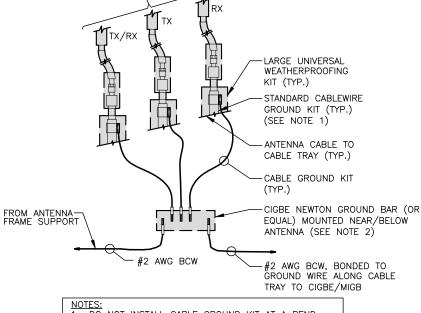


- (1) GALVANIZED STEEL GROUND BAR, 1/4"x4"x20", OR OTHER LENGTH AS REQUIRED, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- (2) INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR EQUAL.
- 3 5/8" LOCKWASHERS OR EQUAL.
- (4) WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-8056 OR EQUAL.
- (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.
- 2. ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

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



FROM ANTENNA

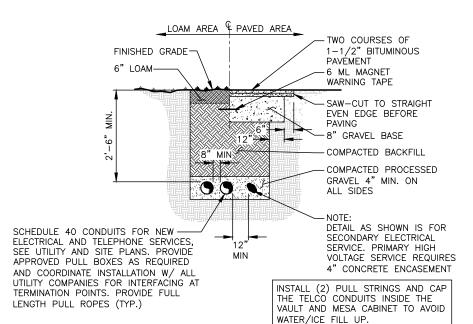
NOTES:

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

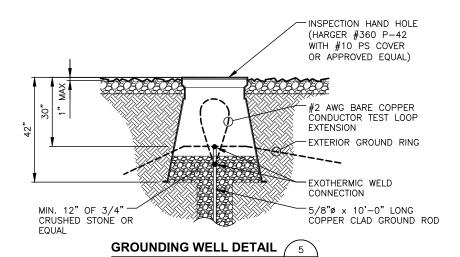
2. ALL GROUND BARS SHALL BE GALVANIZED WITH ANTI-THEFT HARDWARE.

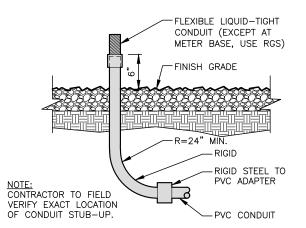
GROUNDING - STANDARD DETAIL CONNECTION OF GROUND WIRES TO GROUND BAR (CIGBE)

SCALE: N.T.S

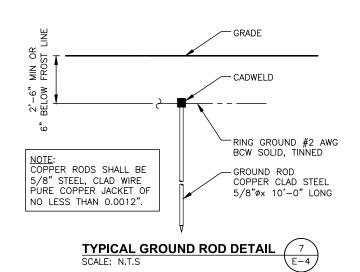
















FOR

00 OSGOOD STREET JILDING 20 NORTH, SUITE 3090 ANDOVER, MA 01845 FAX: (978) 336-55

CHECKED BY: JX

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

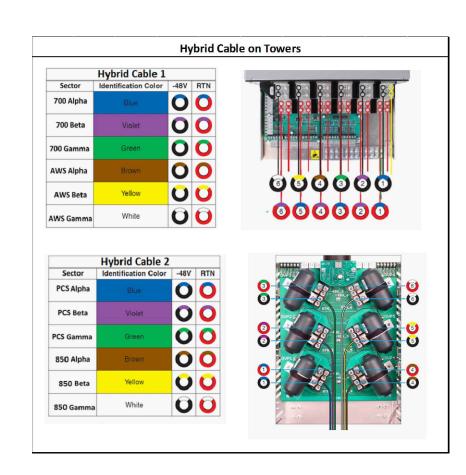
SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE
ELECTRICAL/
GROUNDING
DETAILS

SHEET NUMBER

E-4

Line Color Code	Band	Tx / Rx	Color Pairs	Sector	Cable Length (FT)		
BR	850	Tx0/Rx0	Blue + Red				
BY	850	Tx 1/Rx1	Blue + Yellow				
BG	1900 CDMA	Tx 0/Rx0	Blue + Green				
BBG	1900 CDMA	Tx 1/Rx1	Dide + Green		A&E to estimate		
BP	700	Tx 0/Rx0		1	cable lengths based		
BBP	700	Tx 1/Rx1	Blue + Purple		on drawings. CM's		
BBBP	700	Tx 2/Rx2	blue + Fulpie		to use as reference		
BBBBP	700	Tx3/Rx3		A 1 1	only. CM must		
BBr	AWS	Tx0/Rx0		Alpha	verify and provide		
BBBr	AWS	Tx 1/Rx1	D		their revised		
BBBBr	AWS	Tx 2/Rx2	Blue + Brow n		numbers to		
BBBBBr	AWS	Tx3/Rx3			Operations for		
BGG	1900 LTE	Tx0/Rx0		1	material ordering		
BBGG	1900 LTE	Tx 1/Rx1					
BBBGG	1900 LTE	Tx2/Rx2	Blue + Green		150'		
BBBBGG	1900 LTE	Tx3/Rx3					
WR	850	Tx 0/Rx0	White + Red				
WY	850	Tx 1/Rx1	White + Yellow	1			
WG	1900 CDMA	Tx0/Rx0		1			
WWG	1900 CDMA	Tx 1/Rx1	White + Green		A&E to estimate		
WP	700	Tx 0/Rx0		1	cable lengths based on drawings. CM's to use as reference only. CM must verify and provide		
WWP	700	Tx 1/Rx1					
WWWP	700	Tx 2/Rx2	White + Purple				
WWWWP	700	Tx3/Rx3					
WBr	AWS	Tx 0/Rx0		Beta			
WWBr	AWS	Tx 1/Rx1		their revised			
WWWBr	AWS	Tx 2/Rx2	White + Brown		numbers to		
WWWWBr	AWS	Tx3/Rx3		Operations for			
WGG	1900 LTE	Tx 0/Rx0		1	material ordering		
WWGG	1900 LTE	Tx 1/Rx1					
WWWGG	1900 LTE	Tx2/Rx2	White + Green		150'		
wwwwgg	1900 LTE	Tx3/Rx3			 		130
OR	850	Tx 0/Rx0	Orange + Red				
OY	850 850	Tx 1/Rx1	Orange + Yellow				
OG	1900 CDMA	Tx 0/Rx0	Crange + reliow	1			
00G	1900 CDIMA	Tx 1/Rx1	Orange + Green		A P.E to catimata		
OP		Tx 0/Rx 0		1	A&E to estimate		
OOP	700	Tx 1/Rx1			cable lengths based		
OOOP	700	Tx 2/Rx2	Orange + Purple		on drawings. CM's to use as reference		
0000P	700	Tx3/Rx3					
OBr	700			Gamma	only. CM must		
	AWS	Tx 1/Rx0			verify and provide		
OOBr	AWS	Tx 1/Rx1	Orange + Brown		their revised		
000Br	AWS	Tx 2/Rx2			numbers to		
0000Br	AWS	Tx 3/Rx3			Operations for		
OGG	1900 LTE	Tx 0/Rx0			material ordering		
oogg	1900 LTE	Tx 1/Rx1	White + Green		150'		
000GG	1900 LTE	Tx 2/Rx2					
0000GG	1900 LTE	Tx3/Rx3		I			



CABLE COLOR CODE
SCALE: N.T.S

PREPARED FOR:

Verizon

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



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

REV. DATE DESCRIPTION B

DPH

SITE NAME:
PORTLAND 3 ME

SITE ADDRESS: 476 SUMMIT STREET PORTLAND, ME 04103

SHEET TITLE

RF COLOR CODE

SHEET NUMBER

RF-1

LINE COLOR CODE

SCALE: N.T.S



ANTENNA DESIGN TO BE PROVIDED BY RF ENGINEER verizon



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

CHECKED BY:

APPROVED BY:

SUBMITTALS

DPH

	30DIVITTAL3						
REV.	DATE DESCRIPTION						

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

RF-2