-T- - Mobile -

NORTHEAST LLC

SITE NAME: **H&S DEVELOPMENT GROUP**

SITE NUMBER: VA70330D

SITE ADDRESS: 700 GREENLAWN AVE

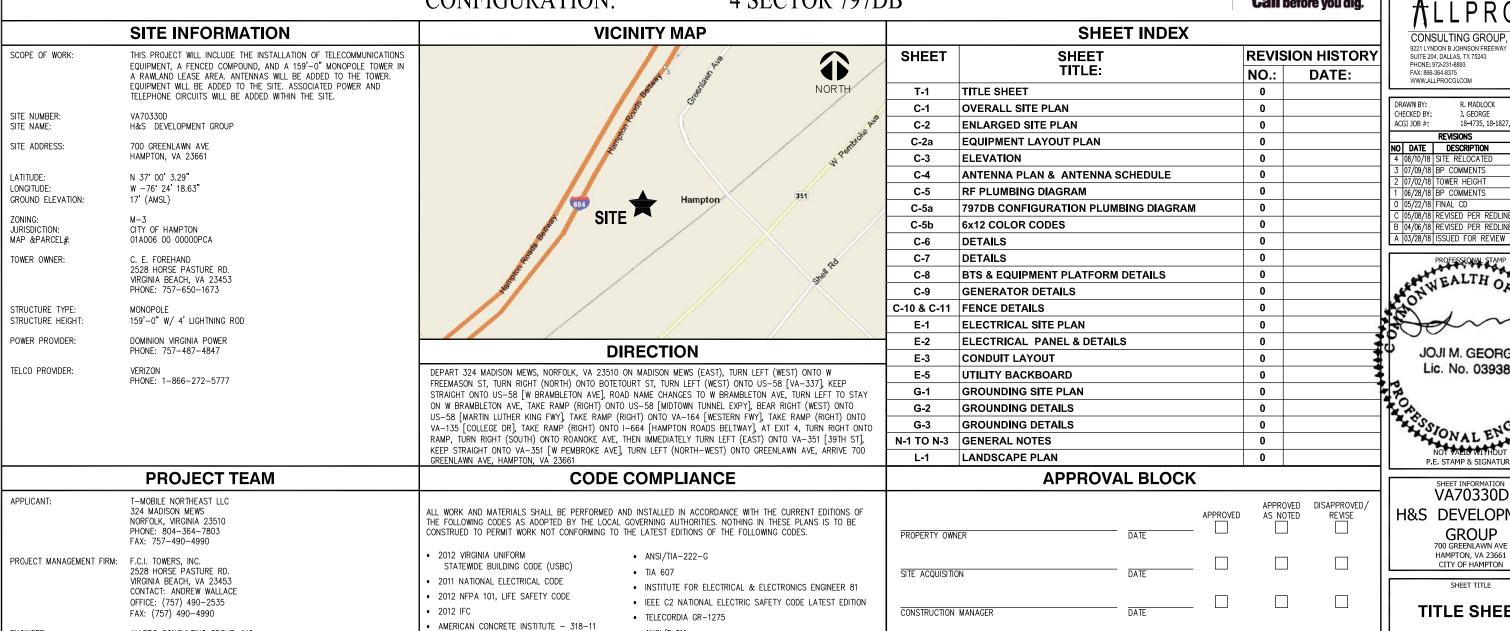
HAMPTON, VA 23661

ZONING

RF ENGINEER

4 SECTOR 797DB **CONFIGURATION:**





• ANSI/T 311

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 24"X36". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING

SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION

DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

MANUAL OF STEEL CONSTRUCTION 14TH EDITION

ALLPRO CONSULTING GROUP, INC.

CONTACT: JOJI M. GEORGE, P.E.

OFFICE: 972-231-8893

FAX: 866-364-8375

SUITE 204 DALLAS, TX 75243

9221 LYNDON B. JOHNSON FREEWAY

ENGINEER:



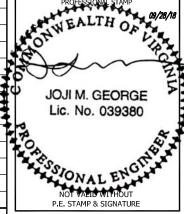
NORFOLK, VA 23510

PROJECT MANAGEMENT FIRE



			ECKED BY: GI JOB #	J. GEORGE 18-4735, 18-1827, & 18-3917						
		REVISIONS								
_		NO	DATE	DESCRIPTION	BY					
		4	08/10/18	SITE RELOCATED	RM					
	ı	3	07/09/18	BP COMMENTS	RM					
_	П	2	07/02/18	TOWER HEIGHT	RM					
	П	1	06/28/18	BP COMMENTS	RM					
	l			FINAL CD	RM					
_		С	05/08/18	REVISED PER REDLINES	RM					
	П	В	04/06/18	REVISED PER REDLINES	RM					

R MADLOCK



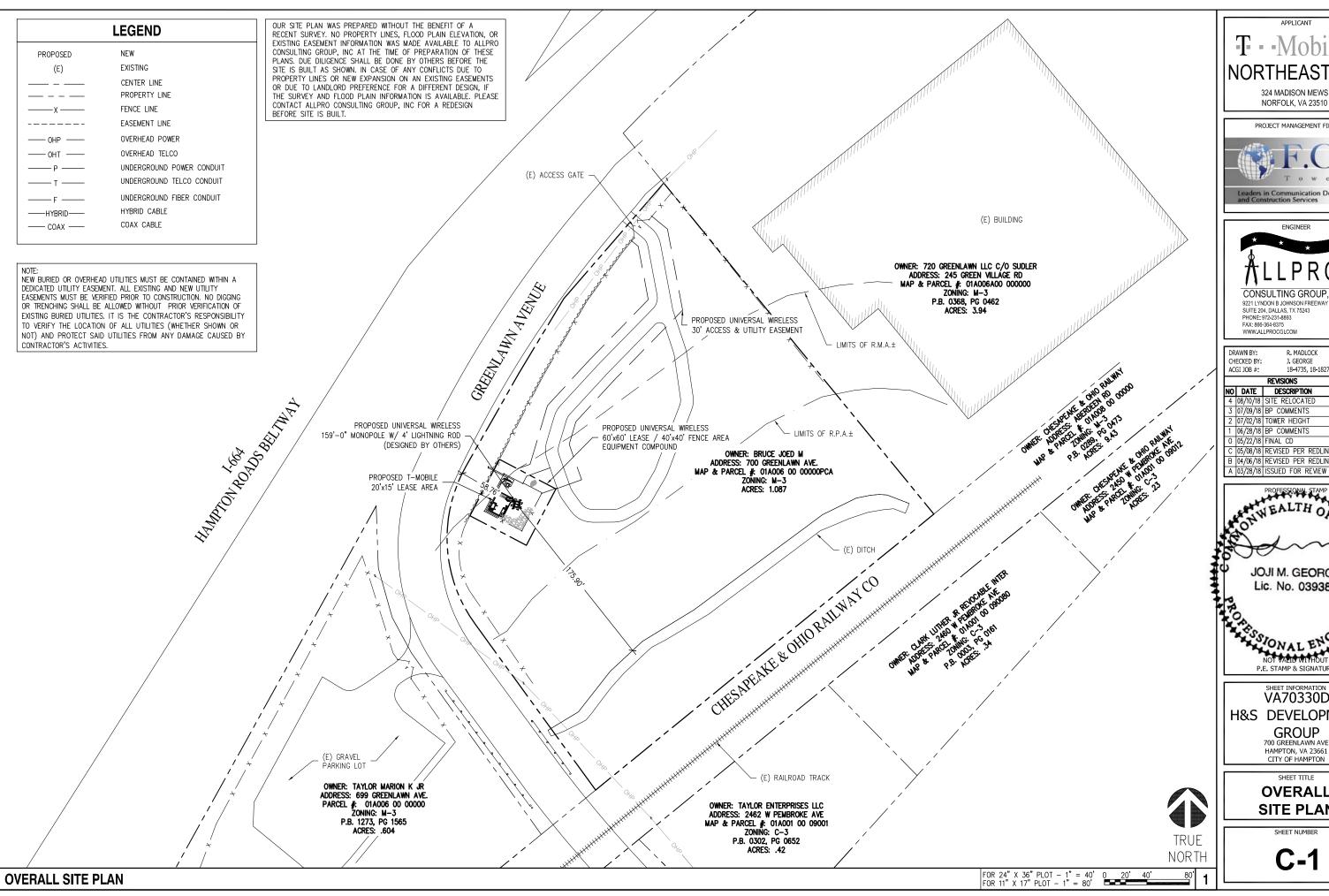
VA70330D **H&S DEVELOPMENT GROUP** 700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



NORTHEAST LLC 324 MADISON MEWS

NORFOLK, VA 23510





9221 LYNDON B JOHNSON FREEWA SUITE 204, DALLAS, TX 75243

PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

	DRAWN BY: CHECKED BY: ACGI JOB #:			R. MADLOCK J. GEORGE 18-4735, 18-1827, & 18-39	17
				REVISIONS	
		NO	DATE	DESCRIPTION	BY
	П	4	08/10/18	SITE RELOCATED	RM
	П	3	07/09/18	BP COMMENTS	RM
	П	2	07/02/18	TOWER HEIGHT	RM
	П	1		BP COMMENTS	RM
				FINAL CD	RM
1				REVISED PER REDLINES	RM
	ı	В	04/06/18	REVISED PER REDLINES	RM



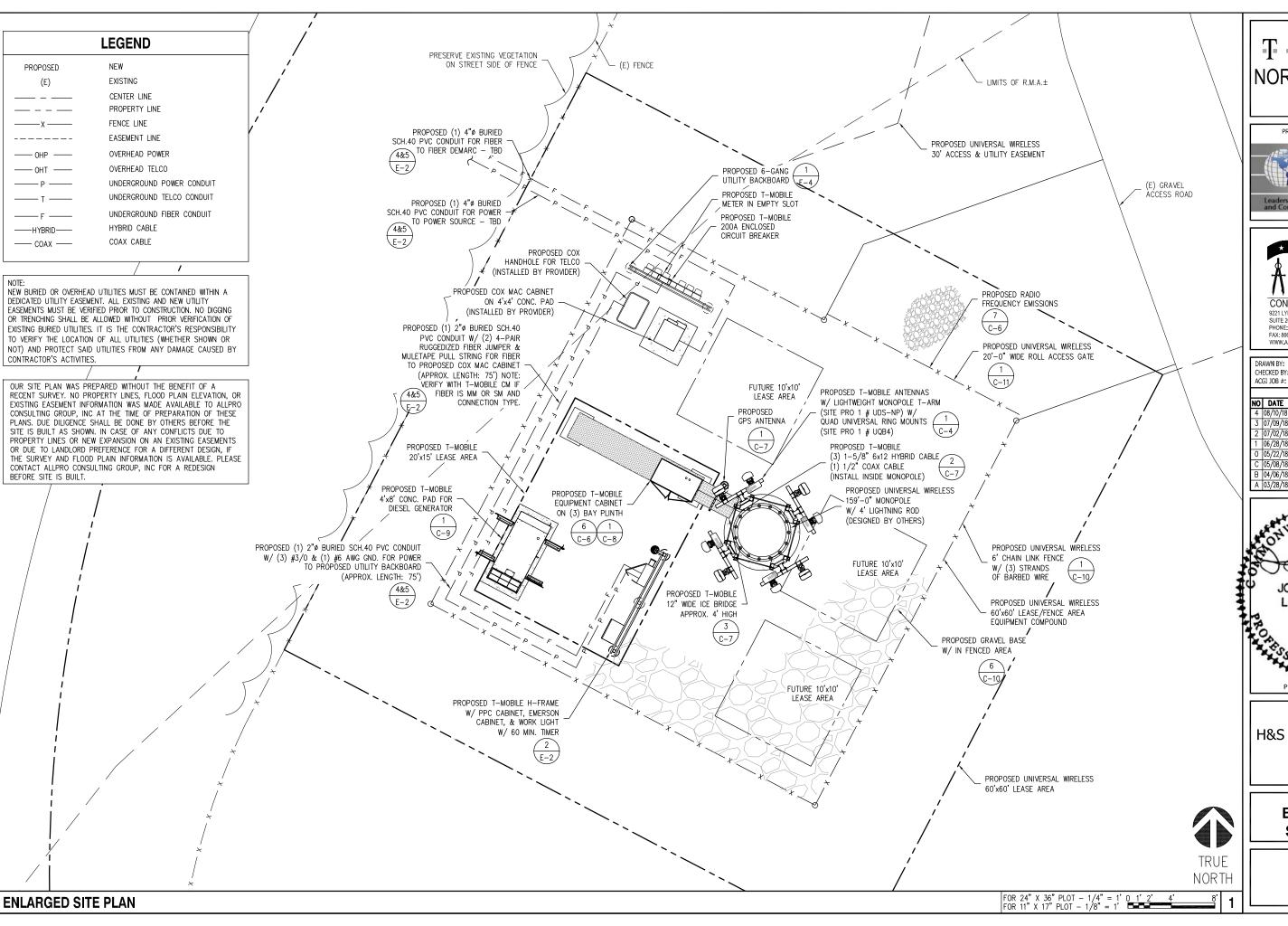
SHEET INFORMATION VA70330D **H&S DEVELOPMENT**

GROUP 700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

OVERALL SITE PLAN

C-1



T - Mobile - NORTHEAST LLC

324 MADISON MEWS

PROJECT MANAGEMENT FIRM

NORFOLK, VA 23510

F.C.I

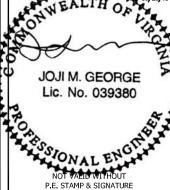
Leaders in Communication Developmen



CONSULTING GROUP, INC 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 868-364-8375 WWW.ALLPROCGI.COM

DRAWN BY: R. MADLOCK
CHECKED BY: J. GEORGE
ACGI JOB #: 18-4735, 18-1827, & 18-3917

REVISIONS NO DATE DESCRIPTION BY 10/18 SITE RELOCATE RM 3 07/09/18 BP COMMENTS 2 07/02/18 TOWER HEIGHT RM 06/28/18 BP COMMENTS RM 05/22/18 FINAL CD 05/08/18 REVISED PER REDLINES RM B 04/06/18 REVISED PER REDLINES RM A 03/28/18 ISSUED FOR REVIEW



SHEET INFORMATION VA70330D H&S DEVELOPMENT GROUP

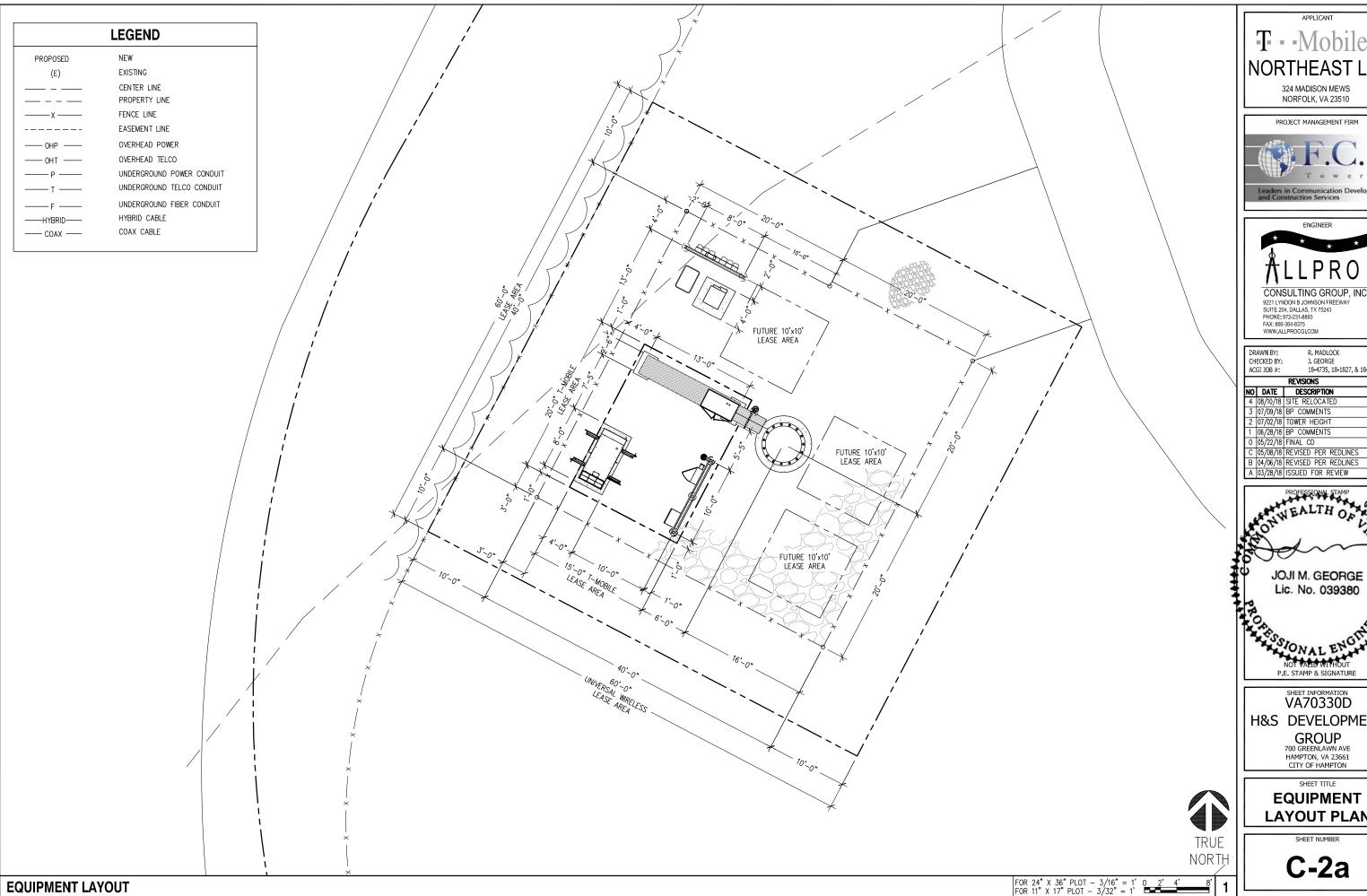
700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

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ENLARGED SITE PLAN

SHEET NUMBE

C-2



NORTHEAST LLC 324 MADISON MEWS

NORFOLK, VA 23510

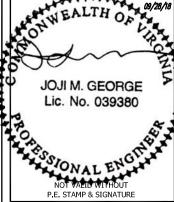




9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

R. MADLOCK

		ECKED BY: GI JOB #:	J. GEORGE 18-4735, 18-1827, & 18-39	17
			REVISIONS	
	2	DATE	DESCRIPTION	BY
П	4	08/10/18	SITE RELOCATED	RM
П	3	07/09/18	BP COMMENTS	RM
П	2	07/02/18	TOWER HEIGHT	RM
П			BP COMMENTS	RM
П	0	05/22/18	FINAL CD	RM



SHEET INFORMATION VA70330D **H&S DEVELOPMENT**

GROUP 700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

EQUIPMENT LAYOUT PLAN

C-2a

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS, AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED 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, MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF
- 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 THE MANUFACTURER RECOMMENDATIONS
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION
- TRANSMITTER EQUIPMENT AND ANTENNAS ARE DESIGNED TO MEET ANSI/EIA/TIA 222-G REQUIREMENTS.
- ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
- CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING
- 11. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNERS REPRESENTATIVE.
- OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.
- PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION OF THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING / PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES.
- PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS. TAX MAPS. AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE
- THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD
- 16. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE
- 17. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
- THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED.)
- THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR
- 20. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER

NOTE:

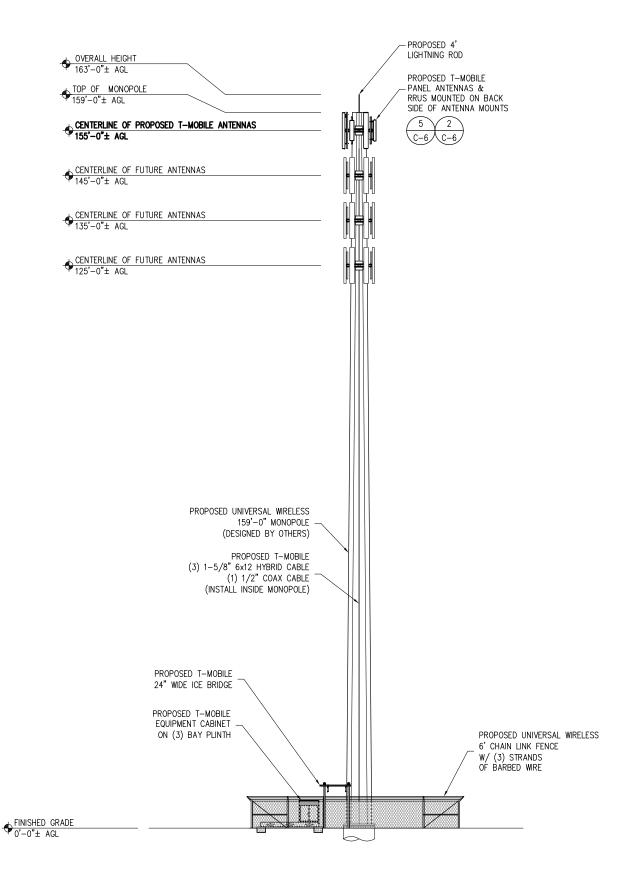
PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE PROPOSED LOADS. REFER TO STRUCTURAL ANALYSIS BY OTHERS.

MOUNT COMPLIANCE IS BY OTHERS. NO NEW ANTENNA OR EQUIPMENT SHALL BE INSTALLED ON MOUNTS WITHOUT THE APPROVAL OF STRUCTURAL ENGINEER.

NOTE:
PROPOSED ANTENNA PLACEMENT LOCATION TO BE FIELD VERIFIED BY GENERAL
CONTRACTOR PRIOR TO CONSTRUCTION TO AVOID ANY INTERFERENCE OR
SHADOWING OF EXISTING ANTENNAS. IF INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS IS DISCOVERED DURING FIELD VERIFICATION, PLEASE CONTACT ALLPRO CONSULTING GROUP INC. FOR DESIGN REVISION PRIOR TO ANY NEW ANTENNA INSTALLATION.

NOTE:

ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.





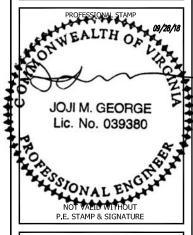




FAX 866-364-8375

DRAWN BY: R. MADLOCK CHECKED BY: ACGI JOB #: J. GEORGE 18-4735, 18-1827, & 18-3917

ΑC	GI JOB #.	10-4/33, 10-102/, & 10-3	717
		REVISIONS	
NO		DESCRIPTION	BY
4	08/10/18	SITE RELOCATED	RM
3	07/09/18	BP COMMENTS	RM
		TOWER HEIGHT	RM
		BP COMMENTS	RM
		FINAL CD	RM
		REVISED PER REDLINES	RM
В	04/06/18	REVISED PER REDLINES	RM
Α	03/28/18	ISSUED FOR REVIEW	RM



VA70330D **H&S DEVELOPMENT GROUP**

700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

ELEVATION

TOWER ELEVATION

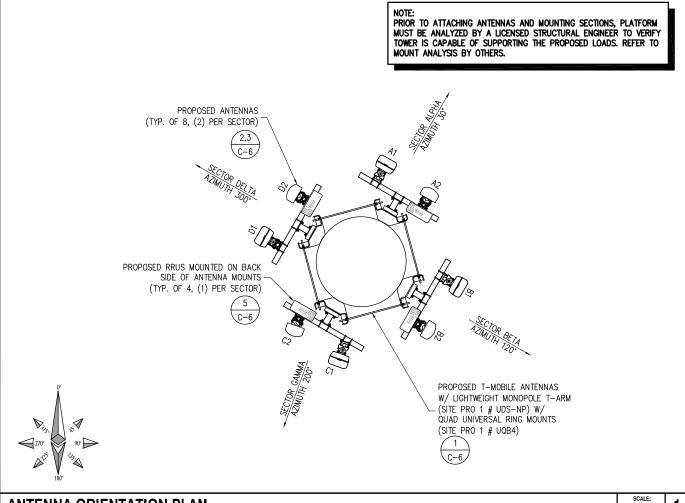
FOR 24" X 36" PLOT - 3/32" = 1 FOR 11" X 17" PLOT - 3/64" = 1'

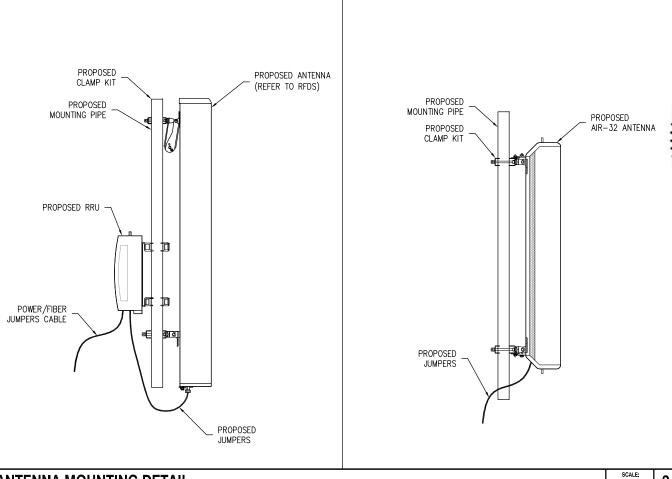
							RF SCHEDULE						
SEC	TOR	ANTENNA MODEL NO.	AZIMUTH M TILT E TILT CENTERLINE		RRU	TMA	CABLE TYPE	CABLE MODEL#	CABLE SIZES	CABLE LENGTH	NO.		
A	A1	ERICSSON AIR 32DB (B2A/B66Aa)	30*	0.	0*	155'-0"							
P H A	A2	RFS APXVAA24_43-U-A20	30°	0.	0.	155'-0"	(1) ERICSSON RRUS11-B12	NONE	NONE				
	А3	RFS APXVAA24_43-U-A20 (FUTURE)	30*	0.	0.	155'-0"	(1) ERICSSON RRUS11-B12 (FUTURE)						
	B1	ERICSSON AIR 32DB (B2A/B66Aa)	120°	0.	0.	155'-0"							
E [B2	RFS APXVAA24_43-U-A20	120°	0.	0.	155'-0"	(1) ERICSSON RRUS11-B12	NONE					
Ā	В3	RFS APXVAA24_43-U-A20 (FUTURE)	120°	0.	0.	155'-0"	(1) ERICSSON RRUS11-B12 (FUTURE)		ERICSSON	HYBRID CABLE, 6 DC PAIRS	1-5/8"	175'-0"	(3) 6X12 HYBRID CABLE
G	C1	ERICSSON AIR 32DB (B2A/B66Aa)	200*	0.	0.	155'-0"			EMOSSON	+ 12 OPTICAL PAIRS		176 0	(1) PER SECTOR
M	C2	RFS APXVAA24_43-U-A20	200°	0.	0.	155'-0"	(1) ERICSSON RRUS11-B12	NONE					
M A	C3	RFS APXVAA24_43-U-A20 (FUTURE)	200°	0,	0.	155'-0"	(1) ERICSSON RRUS11-B12 (FUTURE)						
D	D1	ERICSSON AIR 32DB (B2A/B66Aa)	300°	0.	0.	155'-0"							
֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	D2	RFS APXVAA24_43-U-A20	300°	0.	0,	155'-0"	(1) ERICSSON RRUS11-B12	NONE					
A	D3	RFS APXVAA24_43-U-A20 (FUTURE)	300°	0,	0,	155'-0"	(1) ERICSSON RRUS11-B12 (FUTURE)						
мw		RFS SC2-W100 w/ AVIAT ODU 600 (FUTURE)) TBD			155'-0"			RFS/CELWAVE	FLC 12-50J	1/2"	175'-0"	(1)

CONTRACTOR TO VERIFY PROPOSED ANTENNA INFORMATION IS THE MOST CURRENT DATA AT TIME OF CONSTRUCTION.

CONTRACTOR TO CONFIRM CABLE LENGTHS PRIOR TO CONSTRUCTION.

NOTE: CONTRACTOR TO REQUEST FINAL RFDS AT TIME OF CONSTRUCTION.





NORTHEAST LLC 324 MADISON MEWS NORFOLK, VA 23510

PROJECT MANAGEMENT FIRM

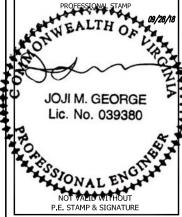


PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243

DRAWN BY: CHECKED BY: R. MADLOCK J. GEORGE ACGI JOB #: 18-4735, 18-1827, & 18-3917

ı	REVISIONS								
ı	NO	DATE	DESCRIPTION	BY					
ı			SITE RELOCATED	RM					
ı			BP COMMENTS	RM					
ı			TOWER HEIGHT	RM					
1			BP COMMENTS	RM					
ı			FINAL CD	RM					
ı			REVISED PER REDLINES	RM					
ı			REVISED PER REDLINES	RM					
ı	Α	03/28/18	ISSUED FOR REVIEW	RM					



SHEET INFORMATION VA70330D **H&S DEVELOPMENT** GROUP 700 GREENLAWN AVE

HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

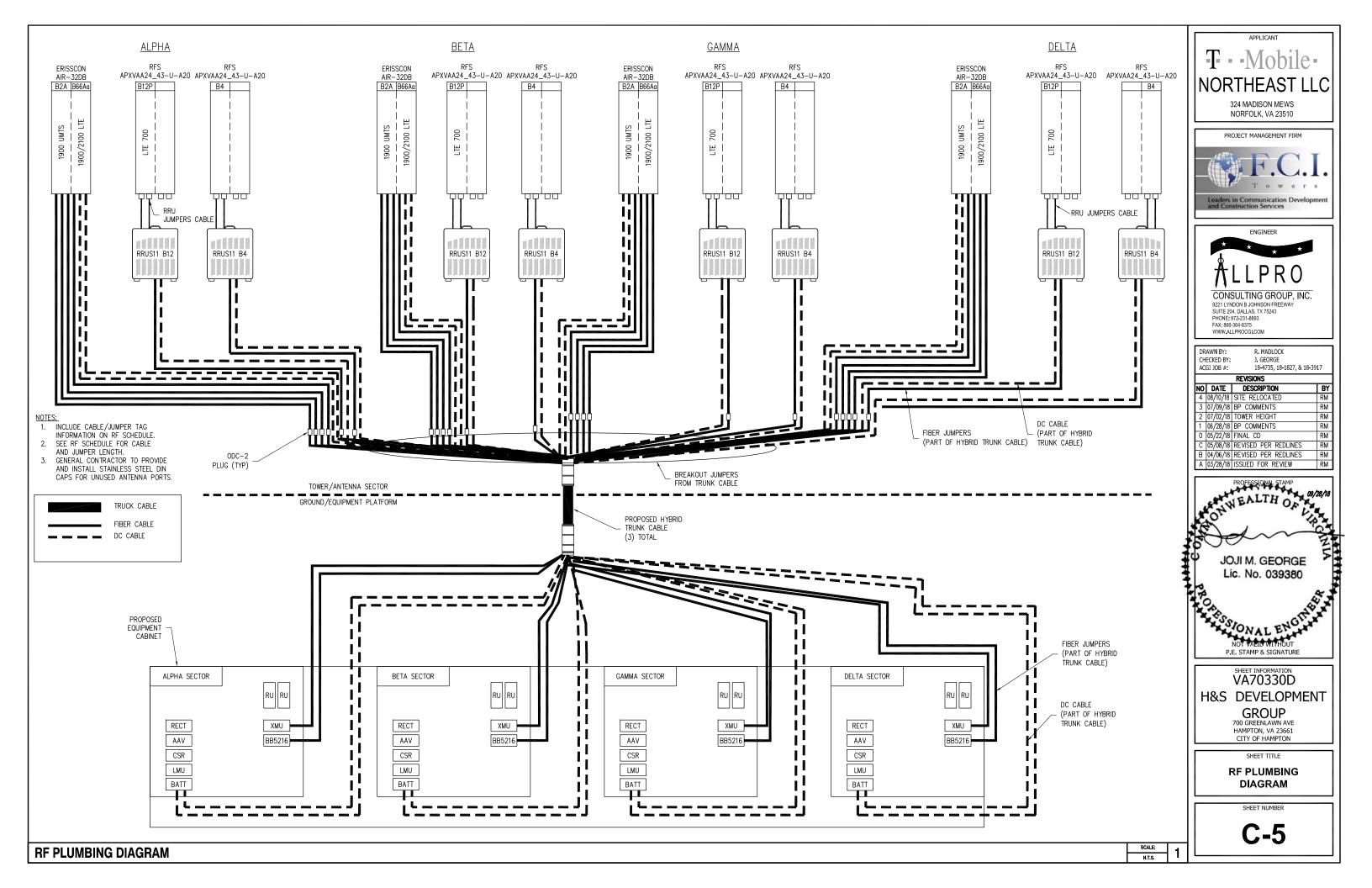
ANTENNA PLAN & ANTENNA SCHEDULE

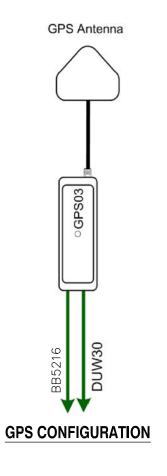
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ANTENNA MOUNTING DETAIL

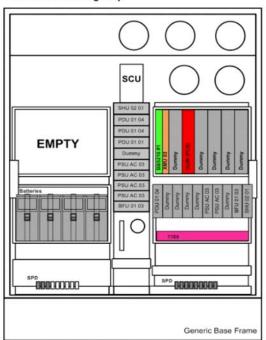
N.T.S.

ANTENNA ORIENTATION PLAN





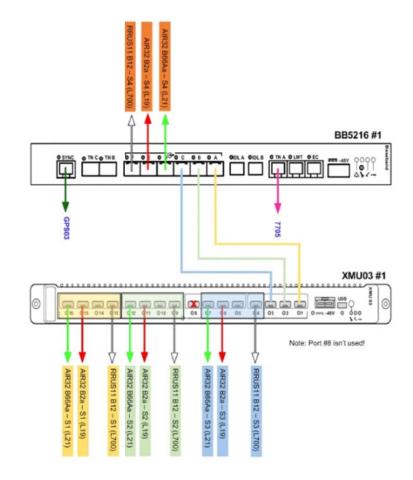
RBS 6102 MU AC High Cap



			DUW Plumbing							
Sector	Band	Side A	DUW CPRI Port	Side B	RRU CPRI Port	SFP Type	Fiber Label			
Alpha	U19	DUW	Α	Air32 B2a	CPRI 1	RDH10265/2	Alpha U19 CPRI 1			
Beta	U19	DUW	В	Air32 B2a	CPRI 1	RDH10265/2	Beta U19 CPRI 1			
Gamma	U19	DUW	С	Air32 B2a	CPRI 1	RDH10265/2	Gamma U19 CPRI 1			
Delta	U19	DUW	D	Air32 B2a	CPRI 1	RDH10265/2	Delta U19 CPRI 1			

			BB5216 Plumbing									
					P2510 Linuplus	3						
Sector	Band	Side A	BB5216 CPRI Port	Side B	RRU Port	SFP Type	Fiber Label					
N/A	LTE	BB 5216	A	XMU	1	Cascade cable						
N/A	LTE	BB 5216	В	XMU	2	Cascade cable						
N/A	LTE	BB 5216	С	XMU	3	Cascade cable						
Delta	L21	BB 5216	D	Air32 B66Aa	CPRI 1	RDH10265/2	Delta L21 CPRI 1					
Delta	L19	BB 5216	E	Air32 B2a	CPRI 2	RDH10265/2	Delta L19 CPRI 2					
Delta	L700	BB 5216	F	RRUS11 B12	CPRI 1	RDH10247/2	Delta L700 CPRI 1					

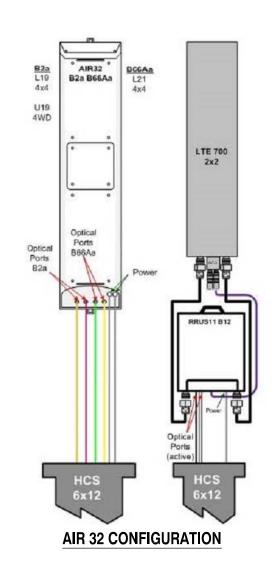
				XMU (Ba	ise Band 503) Pl	umbing	
Sector	Band	Side A	XMU CPRI Port	Side B	RRU Port	SFP Type	Fiber Label
N/A	LTE	XMU	1	BB 5216	Α	Cascade cable	
N/A	LTE	XMU	2	BB 5216	В	Cascade cable	
N/A	LTE	XMU	3	BB 5216	С	Cascade cable	
Gamma	L700	XMU	4	RRUS11 B12	CPRI 1	RDH10247/2	Gamma L700 CPRI 1
N/A	N/A	XMU	5	N/A	N/A	N/A	
Gamma	L19	XMU	6	Air32 B2a	CPRI 2	RDH10265/2	Gamma L19 CPRI 2
Gamma	L21	XMU	7	Air32 B66Aa	CPRI 1	RDH10265/2	Gamma L21 CPRI 1
N/A	N/A	XMU	8	N/A	N/A	N/A	
Beta	L700	XMU	9	RRUS11 B12	CPRI 1	RDH10247/2	Beta L700 CPRI 1
N/A	N/A	XMU	10	N/A	N/A	N/A	
Beta	L19	XMU	11	Air32 B2a	CPRI 2	RDH10265/2	Beta L19 CPRI 2
Beta	L21	XMU	12	Air32 B66Aa	CPRI 1	RDH10265/2	Beta L21 CPRI 1
Alpha	L700	XMU	13	RRUS11 B12	CPRI 1	RDH10247/2	Alpha L700 CPRI 1
N/A	N/A	XMU	14	N/A	N/A	N/A	
Alpha	L19	XMU	15	Air32 B2a	CPRI 2	RDH10265/2	Alpha L19 CPRI 2
Alpha	L21	XMU	16	Air32 B66Aa	CPRI 1	RDH10265/2	Alpha L21 CPRI 1



			Let	ft SPD Din I	Rail		
SPD D1 Air32 B66Aa Delta	SPD D2 Air32 B2a Delta	SPD D3 RRUS11 B12 Delta					

	Right SPD Din Rail									
SPD A1	SPD A2	SPD A3	SPD B1	SPD B2	SPD B3	SPD C1	SPD C2	SPD C3		
Air32	Air32	RRUS11	Air32	Air32	RRUS11	Air32	Air32	RRUS11		
B66Aa	B2a	B12	B66Aa	B2a	B12	B66Aa	B66Aa	B12		
Alpha	Alpha	Alpha	Beta	Beta	Beta	Gamma	Gamma	Gamma		

SPD WIRING CONFIGURATION





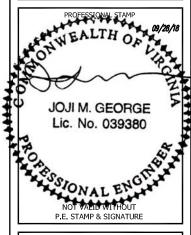
PROJECT MANAGEMENT FIRM

To we r s

Leaders in Communication Development and Construction Services



9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM



SHEET INFORMATION VA70330D
H&S DEVELOPMENT

GROUP 700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

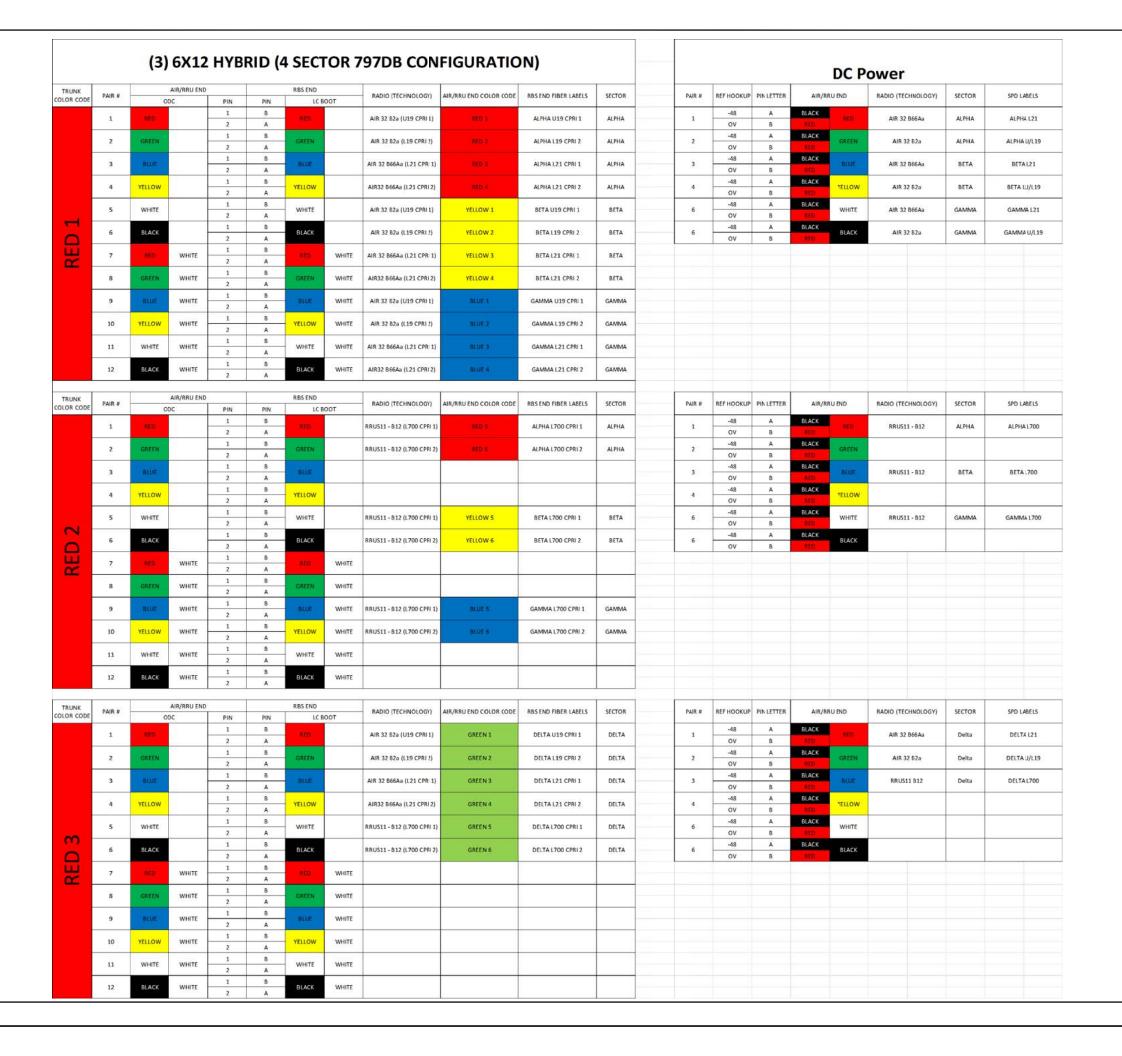
797DB CONFIGURATION PLUMBING DIAGRAM

SHEET NUMBE

C-5a

RBS6102 EQUIPMENT CONFIGURATION

797DB CONFIGURATION PLUMBING DIAGRAM



APPLICANT NORTHEAST LLC 324 MADISON MEWS

NORFOLK, VA 23510 PROJECT MANAGEMENT FIRM





FAX 866-364-8375

R. MADLOCK

CHECKED BY: J. GEORGE 18-4735, 18-1827, & 18-3917 ACGI JOB #: REVISIONS NO DATE DESCRIPTION BY 4 | 08/10/18 | SITE RELOCATED RM RM 3 07/09/18 BP COMMENTS

DRAWN BY:

2 07/02/18 TOWER HEIGHT RM 1 06/28/18 BP COMMENTS RM 0 05/22/18 FINAL CD C 05/08/18 REVISED PER REDLINES RM RM B 04/06/18 REVISED PER REDLINES A 03/28/18 ISSUED FOR REVIEW

PROFESSIONAL STAMP

09/28/18

ONWEALTH OF JOJI M. GEORGE Lic. No. 039380 NOT VACID WITHOUT

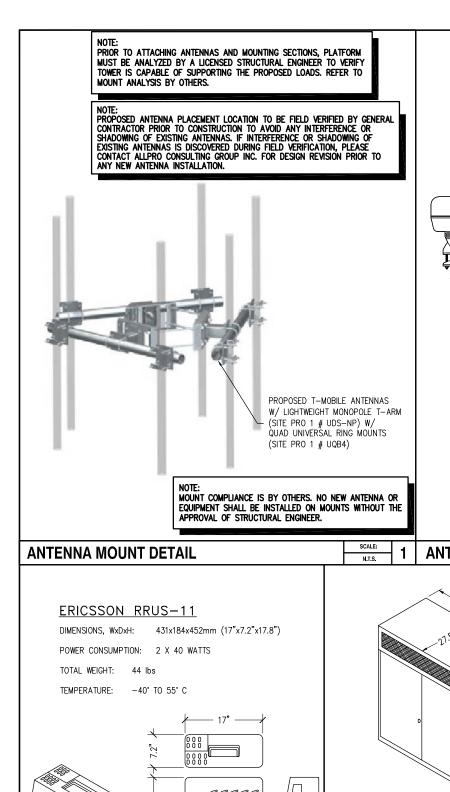
> VA70330D **H&S DEVELOPMENT GROUP**

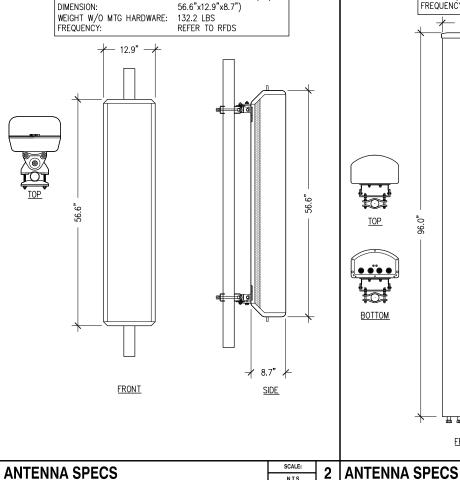
700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE 6x12 **COLOR CODES**

C-5b

SCALE:





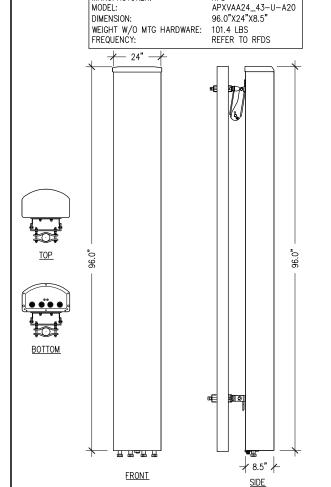
FRICSSON

AIR-32 DUAL BAND (DB)

MANUFACTURER:

MODEL:

DIMENSION:



MANUFACTURER:







CH	AWN BY: ECKED BY: GI JOB #:	R. MADLOCK J. GEORGE 18-4735, 18-1827, & 18-3917				
		REVISIONS				
NO	DATE	DESCRIPTION	BY			
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1	06/28/18	BP COMMENTS	RM			
0	05/22/18	FINAL CD	RM			
С	05/08/18	REVISED PER REDLINES	RM			

PHONE: 972-231-8893 FAX 866-364-8375

3 04/06/18 REVISED PER REDLINES 03/28/18 ISSUED FOR REVIEW

∧ NOTICE
 ∧

GUIDELINES FOR WORKING IN RADIOFREQUENCY ENVIRONMENTS All personnel should have electromagnetic energy (EME) awareness training.

All personnel entering this site must be authorized

⚠ Obey all posted signs.

Assume all antennas are active.

Before working on antennas, notify owners and disable appropriate transmitters.

Maintain minimum 3 feet clearance from all antennas

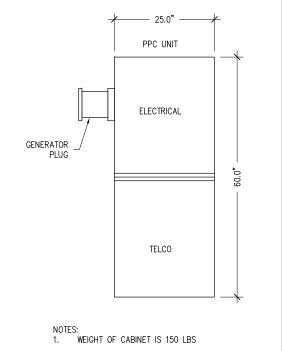
Do not stop in front of antennas.

Use personal RF monitors while working near antennas.

Never operate transmitters without shields during normal operation

Do not operate base station antennas in equipment room.

ALL SIGNS TO BE PROVIDED BY GENERAL CONTACTORS.



SCALE:

N.T.S.

NORTHERN TECHNOLOGIES, INC.

PPC#CS7S2-W836-R OR APPROVAL EQUAL. SEE PPC CABINET DIAGRAM

(1/E-2) FOR BREAKER REQUIREMENTS.

3

NOT USED

WEIGHT: 20 LBS MOUNTING PIPE DIAMETER: WIND VELOCITY OPERATIONAL: 4.5 in 112 MPH WIND VELOCITY SURVIVAL RATING: 155 MPH AVIAT ODU 600 MANUFACTURER: AVIANT NETWORK SIZE: 10.4"x10.4"x4.9" WEIGHT: 11 LBS

MANUFACTURER MODEL#

SC2-W100

MANUFACTURER:

DIAMETER:

SCALE:

N.T.S.



SHEET INFORMATION VA70330D **H&S DEVELOPMENT**

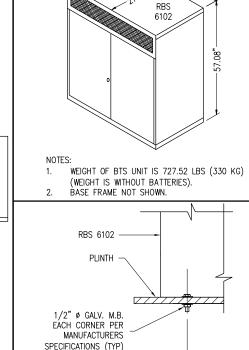
GROUP 700 GREENLAWN AVE

HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

DETAILS

C-6



NOTICE this point may exceed the FCC Obey all posted signs and site guideline for working in radio frequency

RRUS SPECIFICATIONS RBS 6102 & MOUNTING 5

<u>_;000...</u>00

REFER TO R.F.DS. FOR EXACT RRH

SPECIFICATIONS AND QUANTITIES.

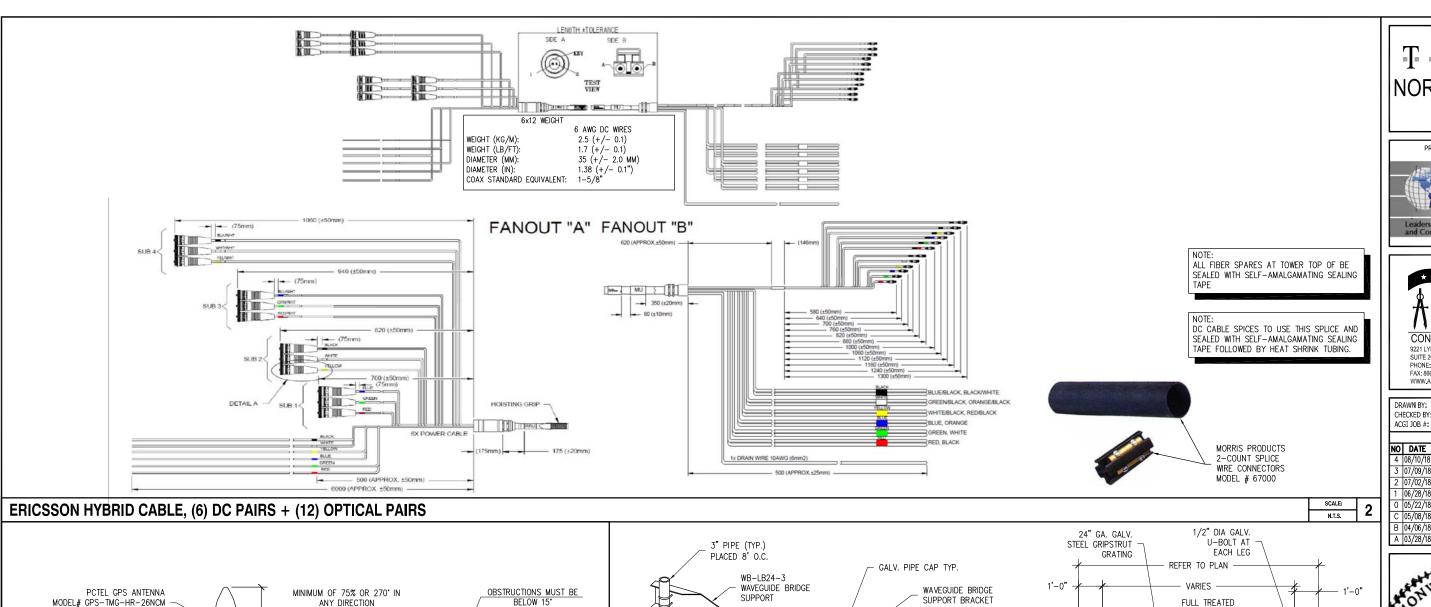
6 RF SIGNS

SCALE:

PPC UNIT

SCALE:

8 MICROWAVE DISH DETAIL N.T.S.



MODEL# GPS-TMG-HR-26NCM

MOUNTING PLATE,

°0.2.4"

2.4"

GPS ANTENNA DETAILS

SEE BELOW

SUPPORT PIPE

OR EQUIVALENT

7/16" SLOTTED HOLE

1/4" HOT DIP

GALV. STEEL

(TYP. OF 8)

→ / 2.2" MOUNTING PLATE

1" SCH. 40 STAINLESS

STEEL OR GALV. PIPE

ANY DIRECTION

GPS ANTENNA

ACCORDANCE WITH THE FINAL RF REPORT.

WITHIN 2 DEGREES OF LEVEL. DO NOT SWEEP TEST GPS ANTENNA.

GPS MINIMUM SKY VIEW REQUIREMENTS

THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN

THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1–1/4" O.D. SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE

PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES)
USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND

PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE

END SHALL BE DEBARRED AND SMOOTH IN ORDER TO SEAL AGAINST THE

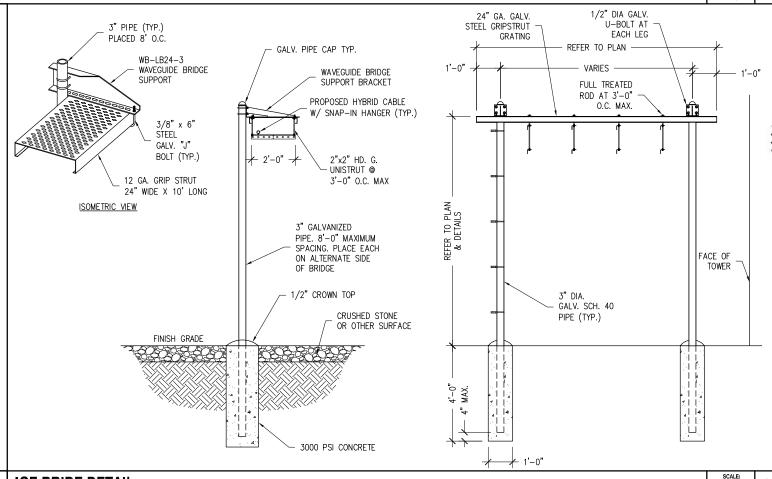
SCALE:

ICE BRIDE DETAIL

IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS

WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS

NEOPRENE GASKET ATTACHED TO THE ANTENNA MOUNT.



T - Mobile -NORTHEAST LLC 324 MADISON MEWS

NORFOLK, VA 23510

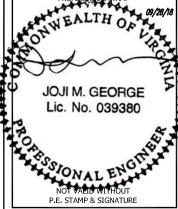




CONSULTING GROUP, INC. 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

R. MADLOCK CHECKED BY: J. GEORGE 18-4735, 18-1827, & 18-3917

		NO	DATE	DESCRIPTION	BY
	П	4	08/10/18	SITE RELOCATED	RM
	П	3	07/09/18	BP COMMENTS	RM
	П	2	07/02/18	TOWER HEIGHT	RM
	П	1	06/28/18	BP COMMENTS	RM
	Ш			FINAL CD	RM
	Ш	С	05/08/18	REVISED PER REDLINES	RM
	П			REVISED PER REDLINES	RM
	П	Α	03/28/18	ISSUED FOR REVIEW	RM



SHEET INFORMATION VA70330D **H&S DEVELOPMENT GROUP**

HAMPTON, VA 23661

CITY OF HAMPTON

SHEET TITLE

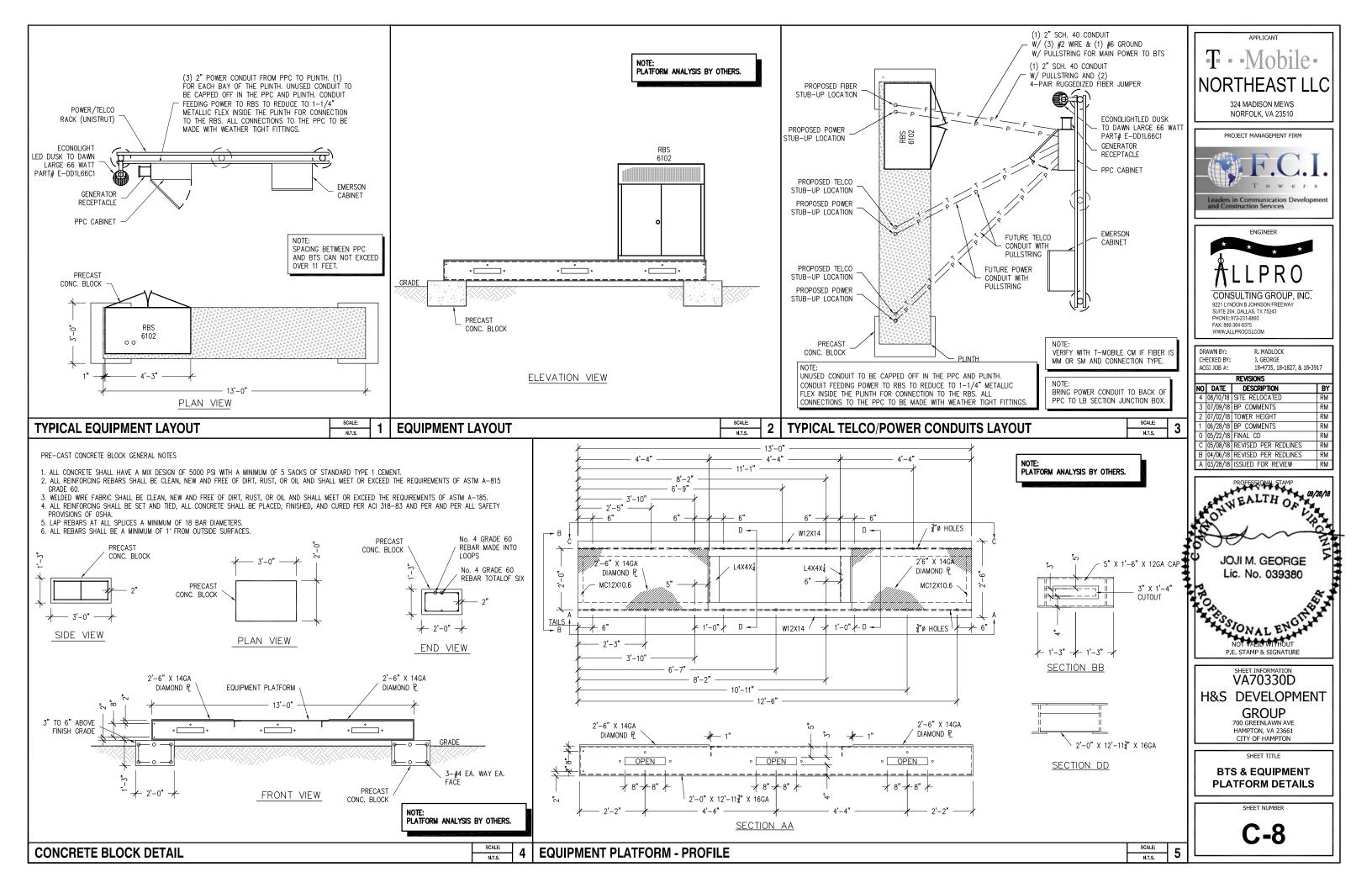
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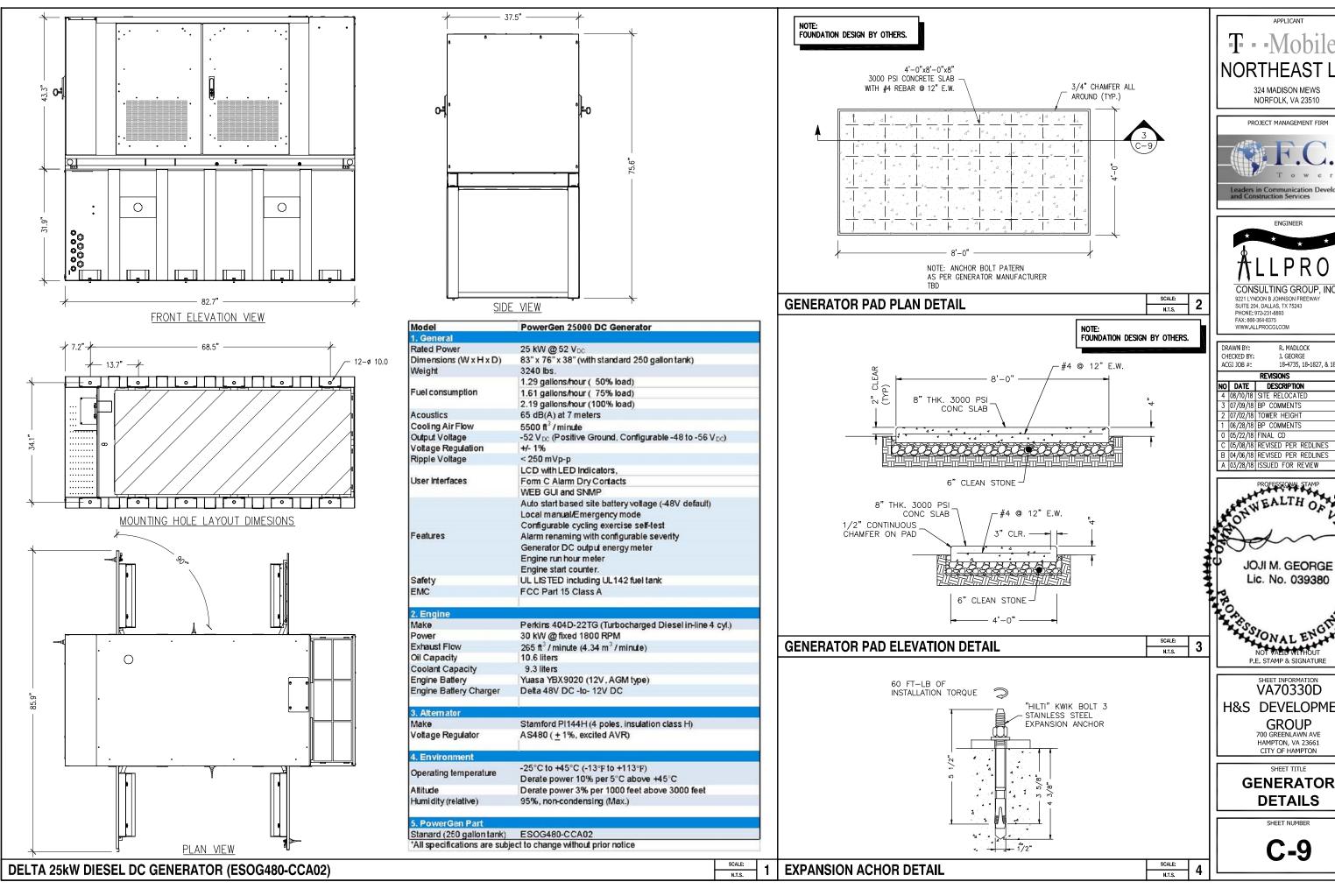
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C-7

3

N.T.S.





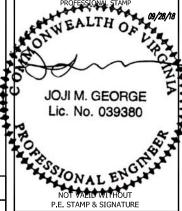
NORTHEAST LLC 324 MADISON MEWS NORFOLK, VA 23510





FAX: 866-364-8375 WWW.ALLPROCGLCOM

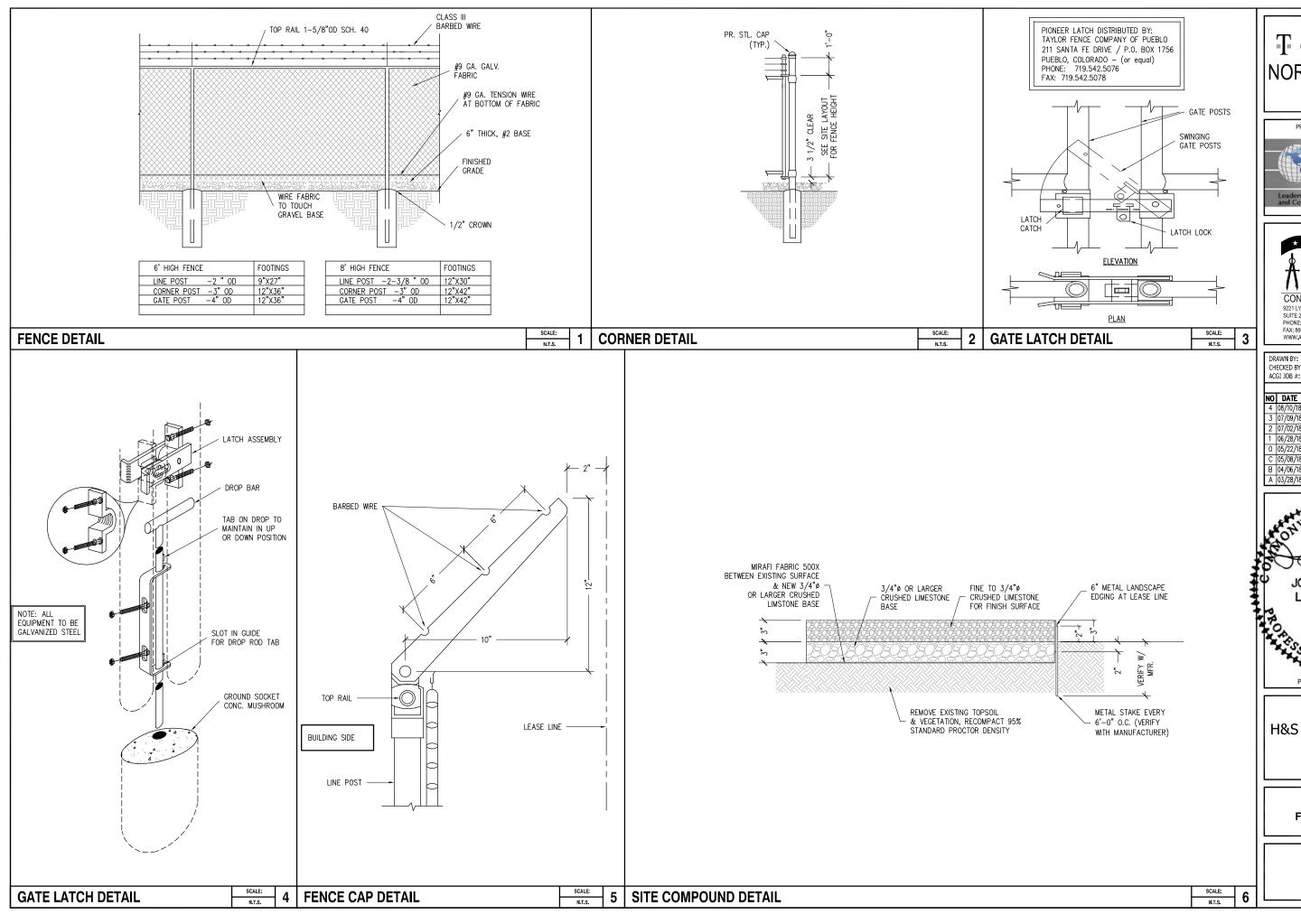
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3	07/09/18	BP COMMENTS	RM
2	07/02/18	TOWER HEIGHT	RM
1	06/28/18	BP COMMENTS	RM
	05/22/19	EINIAL CD	DM



SHEET INFORMATION VA70330D **H&S DEVELOPMENT**

GROUP 700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

GENERATOR DETAILS





NORFOLK, VA 23510

PROJECT MANAGEMENT FIRM

F.C. I.

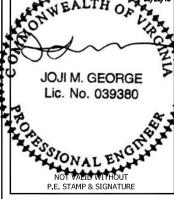
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Leaders in Communication Development



CONSULTING GROUP, INC 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-384-8375 WWW.ALLPROCGLCOM

| NO | DATE | DESCRIPTION | BY | 4 | 08/10/18 | SITE RELOCATED | RM | 3 | 07/09/18 | BP | COMMENTS | RM | 2 | 07/02/18 | TOWER | HEIGHT | RM | 1 | 06/28/18 | BP | COMMENTS | RM | 0 | 05/22/18 | BP | COMMENTS | RM | C | 05/08/18 | REVISED | PER REDLINES | RM | B | 04/06/18 | REVISED | PER REDLINES | RM | A | 03/28/18 | ISSUED | FOR REVIEW | RM



SHEET INFORMATION VA70330D H&S DEVELOPMENT GROUP 700 GREENLAWN AVE

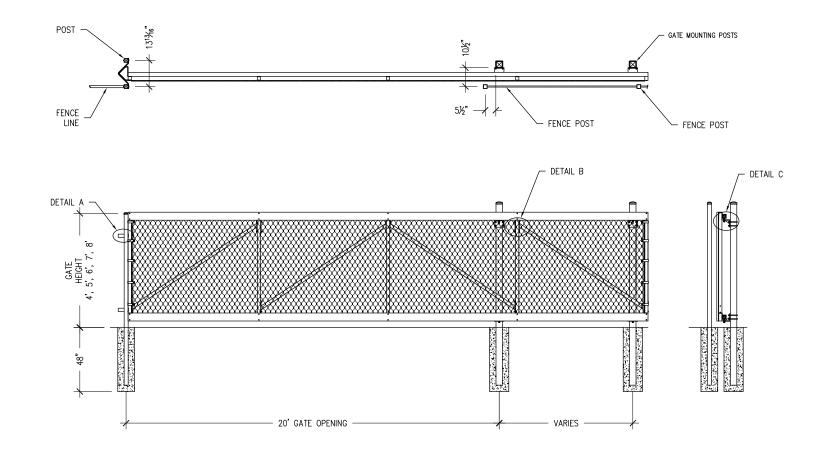
700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

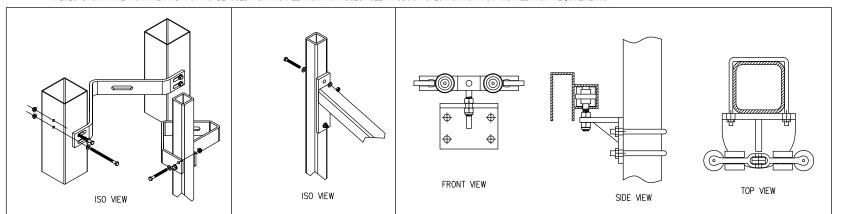
FENCE DETAILS

SHEET NUMBER

C-10



VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES. SEE PRODUCT SPECIFICATION FOR INSTALLATION REQUIREMENTS.



CHAIN LINK CANTILEVER GATE SPECIFICATION SUMMARY U.S.A. PATENT NO. 5,136,813 MATERIAL: ALUMINUM (ASTM B221 – 6005–T5)
TRACK: PROPRIETARY FAST-TRAK EXTRUDED SHAPE



UPRIGHTS AND DIAGONAL BRACES: 2" SQUARE X 1/4" CANTILEVER GATE HARDWARE: KIT # TGKCD

AMERISTAR'S TRANSPORT ORNAMENTAL CANTILEVER GATES ARE DESIGNED TO BE MOUNTED ON POSTS THAT ARE OFF-SET FROM THE FENCE LINE.

BY OFF-SETTING THE GATE POSTS, THE GATE WILL PASS BETWEEN THE FENCE AND THE MOUNTING POSTS, KEEPING IT FROM FALLING IN THE EVENT OF A TRACK OR HARDWARE FAILURE (A REQUIREMENT OF ASTMF2200). NORTHEAST LLC 324 MADISON MEWS NORFOLK, VA 23510

PROJECT MANAGEMENT FIRM



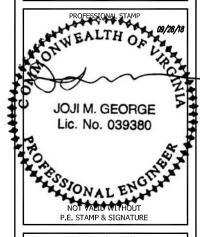
9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243

DRAWN BY:

PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

R. MADLOCK J. GEORGE CHECKED BY: ACGI JOB #: 18-4735, 18-1827, & 18-3917 REVISIONS NO DATE DESCRIPTION 4 08/10/18 SITE RELOCATED 3 07/09/18 BP COMMENTS 2 07/02/18 TOWER HEIGHT

1 06/28/18 BP COMMENTS 0 05/22/18 FINAL CD C 05/08/18 REVISED PER REDLINES B 04/06/18 REVISED PER REDLINES
A 03/28/18 ISSUED FOR REVIEW

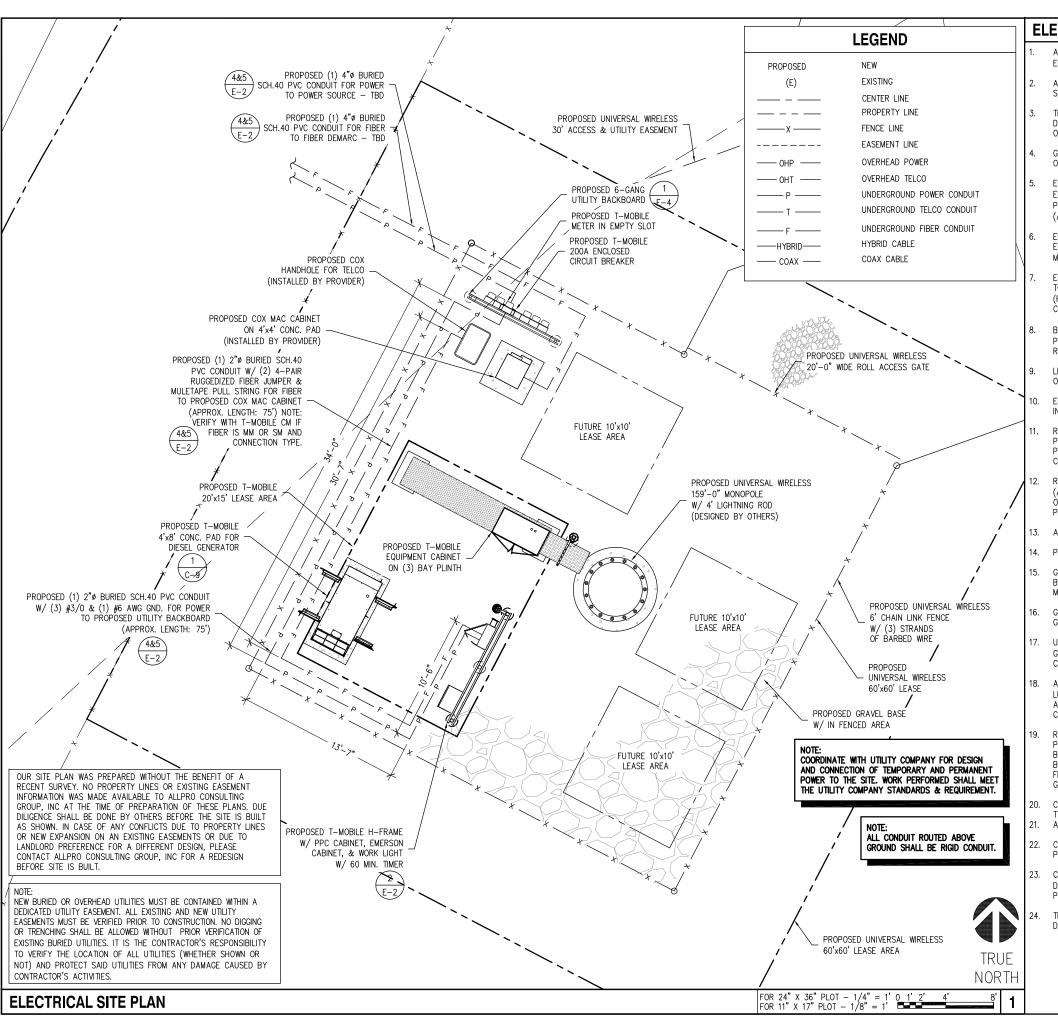


SHEET INFORMATION VA70330D **H&S DEVELOPMENT** GROUP 700 GREENLAWN AVE

HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

FENCE DETAILS



ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- . ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- . THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHOULD PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING AT EXPOSED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC OR RIGID SCHEDULE 80 PVC FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) (AS PERMITTED BY CODE).
- ELECTRICAL AND TELCO WIRING AT CONCEALED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING, ELECTRICAL NONMETALLIC TUBING OR RIGID MONOMETALLIC TUBING (RIGID SCHEDULE 40 PVC (AS PERMITTED BY CODE).
- 7. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING, ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUCTS (RGS) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUCTS
- BURIED CONDUCT SHALL BE RIGID NONMETALLIC CONDUIT (RIGID SCHEDULE 40 PVC); DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT TRAFFIC, ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY TRAFFIC.
- LIGHT -LIQUID FLEXILE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS IN AREAS WHERE VIBRATION OCCURS AND FLEXIBILITY IS NEEDED.
- D. ELECTRICAL WIRING SHALL BE COOPER WITH TYPE THHN, THWN-2, OR THIN INSULATION
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION
 POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING.
 PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY
 COMPANY.
- 12. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT (AT UTILITY POLE) AND CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
- 13. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- 4. PPC SUPPLIED BY PROJECT OWNER.
- 15. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING, AND LIGHTING PROTECTION SHALL BE DONE IN ACCORDANCE WITH METRO MOD CELL SITE GROUNDING STANDARDS.
- 16. GROUND CABLE SHIELD MINIMUM AT BOTH ENDS USING MANUFACTURES CABLE GROUNDING KITS SUPPLIED BY T-MOBILE.
- 17. USE #6 COOPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COOPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING..
- 8. ALL POWER AND GROUND CONNECTIONS TO BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY HARGER (OR APPROVED EQUAL) RATED FOR OPERATION AT NO LESS THAN 75*C OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COOPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- 9. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12"RADIUS BENDS. #6 WIRE CAN BE BENT AT 6"RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- O. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHABITING COMPOUND TO ALL LOCATIONS.

 1. APPLY OXIDE INHABITING COMPOUND TO ALL MECHANICAL GROUND CONNECTIONS.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE—OUT DOCUMENTATION. 5 OHMNS MINIUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE-OUT.
- THE T-MOBILE ELECTRICAL EQUIPMENT INCLUDING PANEL, SWITCH GEAR AND DISCONNECT ARE TO BE LABELLED WITH ENGRAVED BAKELITE LABELS.

T - Mobile - NORTHEAST LLC

324 MADISON MEWS

PROJECT MANAGEMENT FIRM

NORFOLK, VA 23510

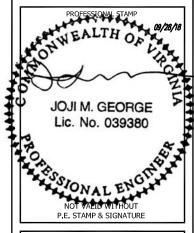
Leaders in Communication Developmen



9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

DRAWN BY: R. MADLOCK
CHECKED BY: J. GEORGE
ACGI JOB #: 18-4735, 18-1827, & 18-3917

	REVISIONS					
NO DATE DESCRIPTION						
		SITE RELOCATED	RM			
		BP COMMENTS	RM			
		TOWER HEIGHT	RM			
		BP COMMENTS	RM			
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Α	03/28/18	ISSUED FOR REVIEW	RM			



VA70330D H&S DEVELOPMENT GROUP

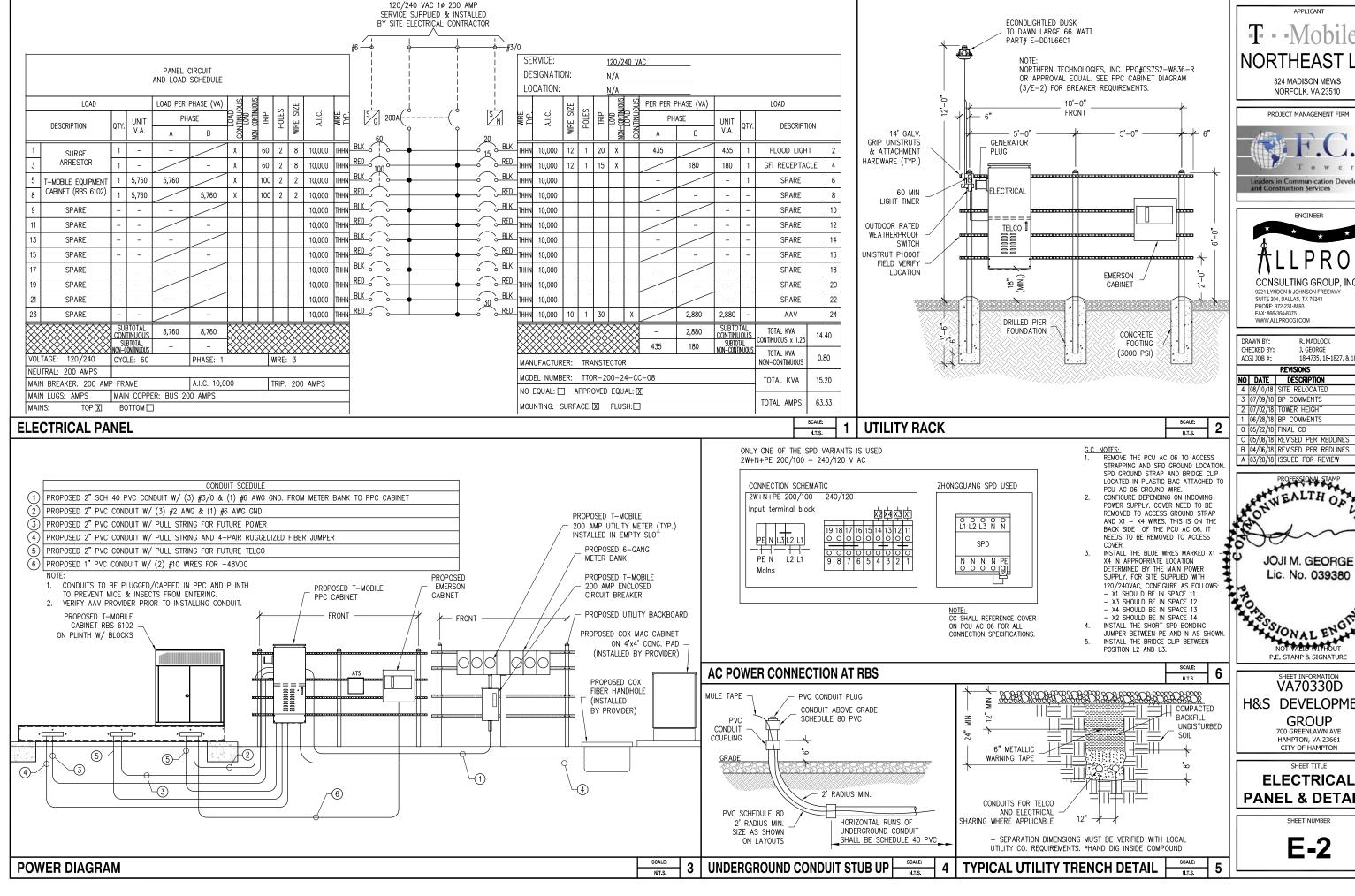
700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBE

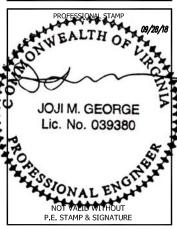
E-1



NORTHEAST LLC

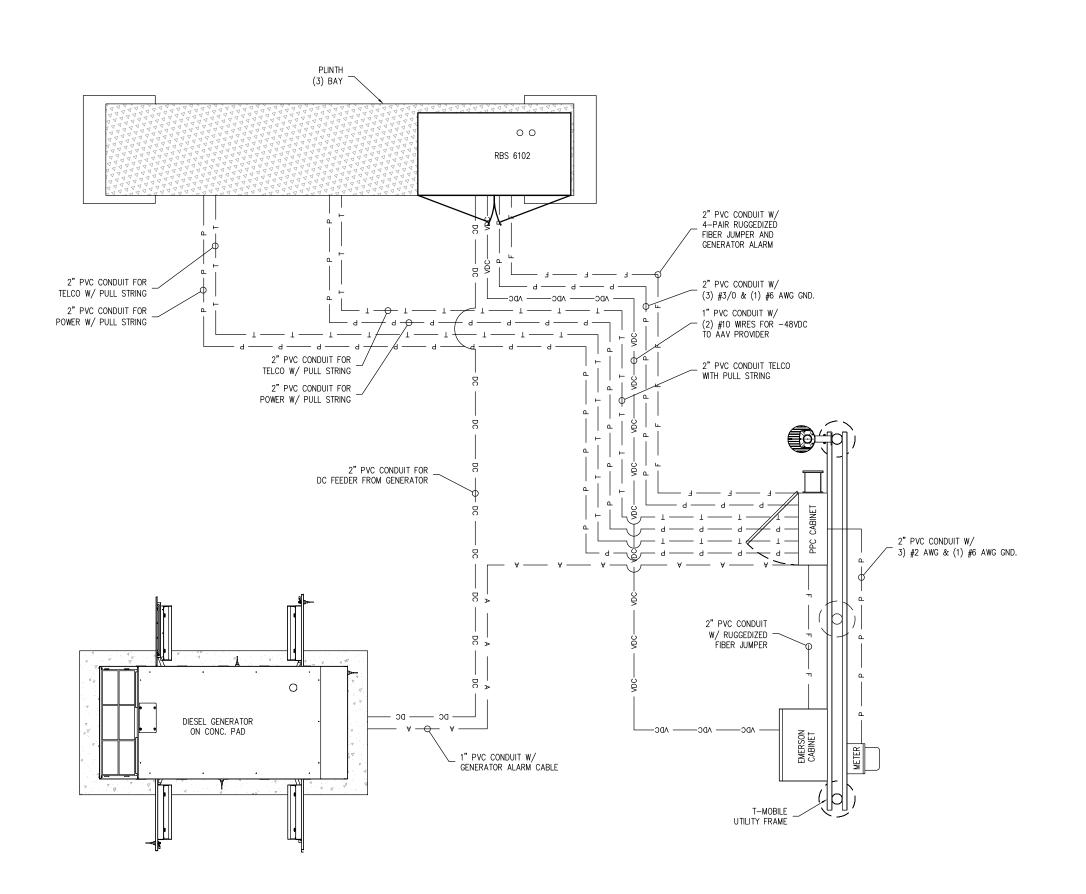


18-4735, 18-1827, & 18-3917 BY RM RM RM 05/08/18 REVISED PER REDLINES RM RM B 04/06/18 REVISED PER REDLINES



VA70330D **H&S DEVELOPMENT**

PANEL & DETAILS





PROJECT MANAGEMENT FIRM



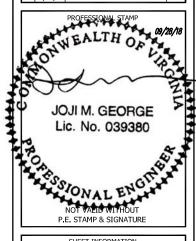
Leaders in Communication Developmen and Construction Services



921 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-4375 WWW.ALLPROCGLCOM

DRAWN BY: R. MADLOCK
CHECKED BY: J. GEORGE
ACGI JOB #: 18-4735, 18-1827, & 18-3917

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SHEET INFORMATION VA70330D H&S DEVELOPMENT

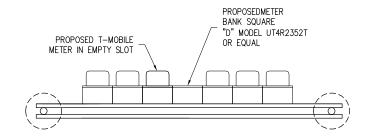
GROUP 700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

CONDUIT LAYOUT

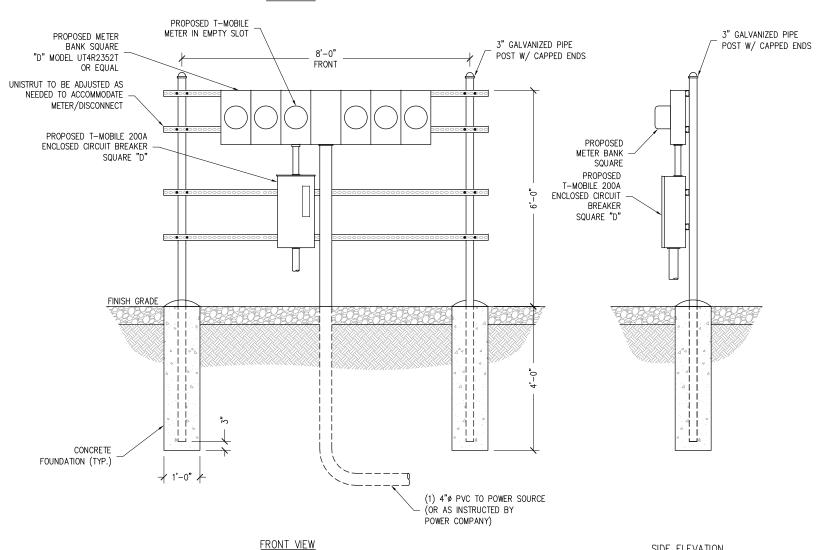
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E-3



- ALL UNISTRUTS ARE BE CLAMPED TO FRONT ON PEDESTAL
- FOR METER BASE AND DISCONNECTS WITH UNISTRUT CLAMPS. ON LEFT BACKSIDE OF PEDESTAL ADD TWO PIECES OF UNISTRUT FOR MOUNTING OF FIBER CABINET.

PLAN VIEW

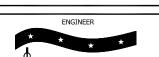


SIDE ELEVATION



PROJECT MANAGEMENT FIRM



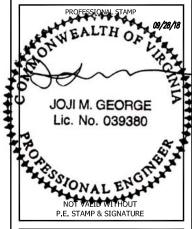


9221 LYNDON B JOHNSON FREEWA SUITE 204, DALLAS, TX 75243

PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

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A 03/28/18 ISSUED FOR REVIEW RM RM

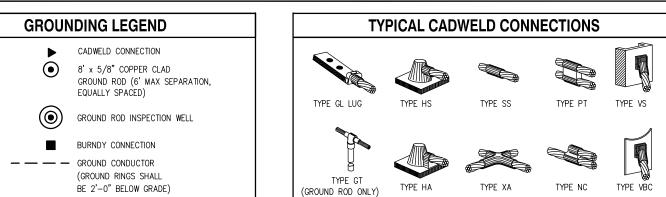


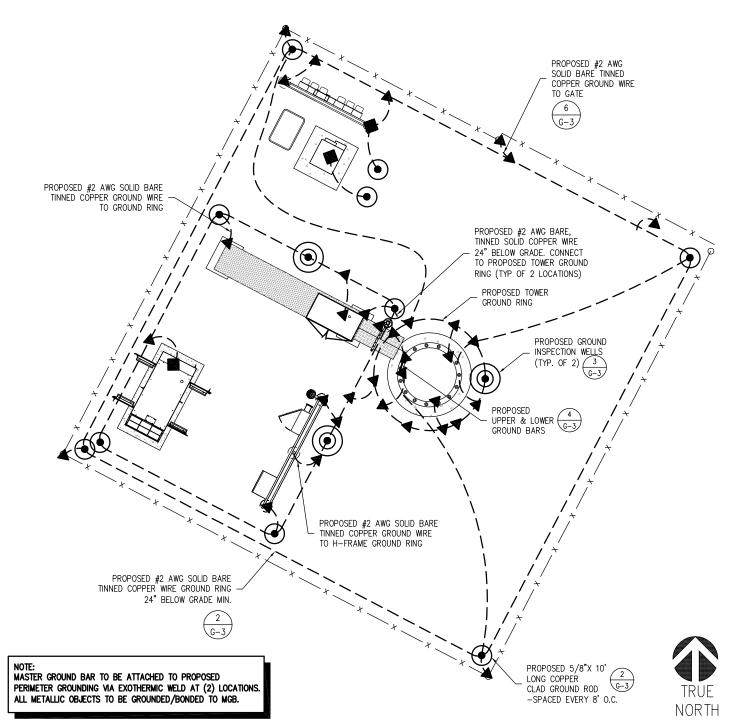
SHEET INFORMATION VA70330D **H&S DEVELOPMENT**

GROUP 700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

UTILITY **BACKBOARD**

E-4





GROUNDING SITE PLAN

FOR 24" X 36" PLOT - 1/4" = 1 FOR 11" X 17" PLOT - 1/8" = 1'

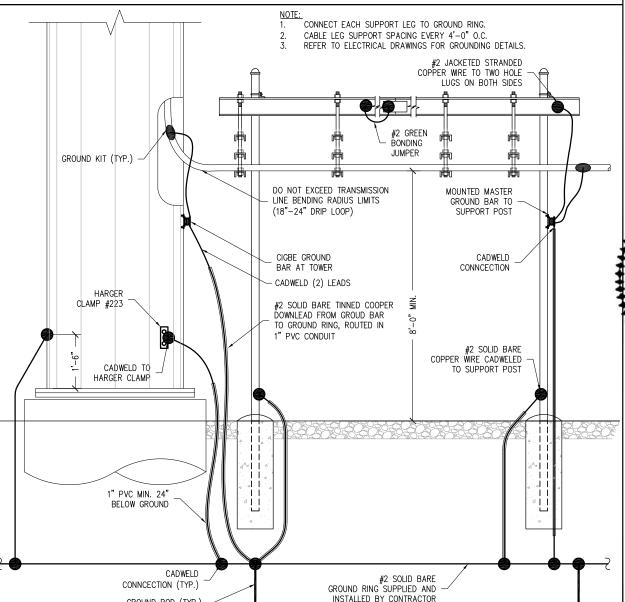
GROUNDING NOTES

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
 ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- CROUNDING CONNECTIONS TO GROUND RODS, GROUNDING RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC("CADWELLS")UNLESS NOTED OTHERWISE, CLEAN SURFACES TO SHINY METAL, WHEN GROUND ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT. GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO —HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING
- SCREW SET) CLEAN GROUND BAR TO SHINY METAL, AFTER MECHANICAL CONNECTION, THREAT WITH PROTECTIVE ANTIOXIDANT COATING. GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURES GROUNDING KITS.
 ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12"RADIUS.

- INSTALL #2 AND GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 TINNED SOLID COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC ("CADWELLS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITIONS ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 8"X10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 TINNED SOLID COPPER WIRE BURIED 36"BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15" APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45*
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE T-MOBILE CONSTRUCTION MANAGER.

 ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 TINNED SOLID COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHEILD (TM OF JET LUBE INC.) PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS. APPLY KOPR-SHEILD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPENDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSES BY A T-MOBILE REPRESENTATIVE, AND RECORDED ON THE GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN % PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI- OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING

SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE THINNED COPPER WIRE.



NORTHEAST LLC 324 MADISON MEWS

NORFOLK, VA 23510

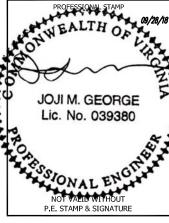
PROJECT MANAGEMENT FIRM



FAX 866-364-8375 DRAWN BY R. MADLOCK CHECKED BY: J. GEORGE

9221 LYNDON B JOHNSON FREEV SUITE 204, DALLAS, TX 75243

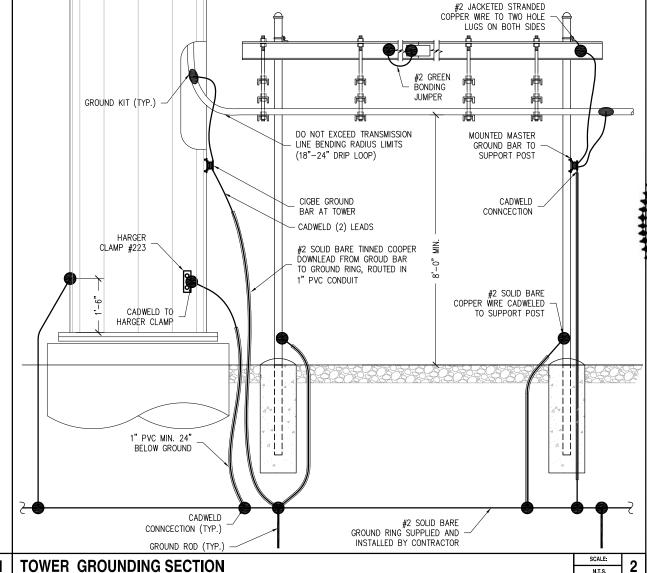
ACGI JOB #: 18-4735, 18-1827, & 18-3917 REVISIONS NO DATE DESCRIPTION RM 3 07/09/18 BP COMMENTS RM 2 07/02/18 TOWER HEIGHT 06/28/18 BP COMMENTS 05/22/18 FINAL CD 05/08/18 REVISED PER REDLINES RM B 04/06/18 REVISED PER REDLINES RM A 03/28/18 ISSUED FOR REVIEW

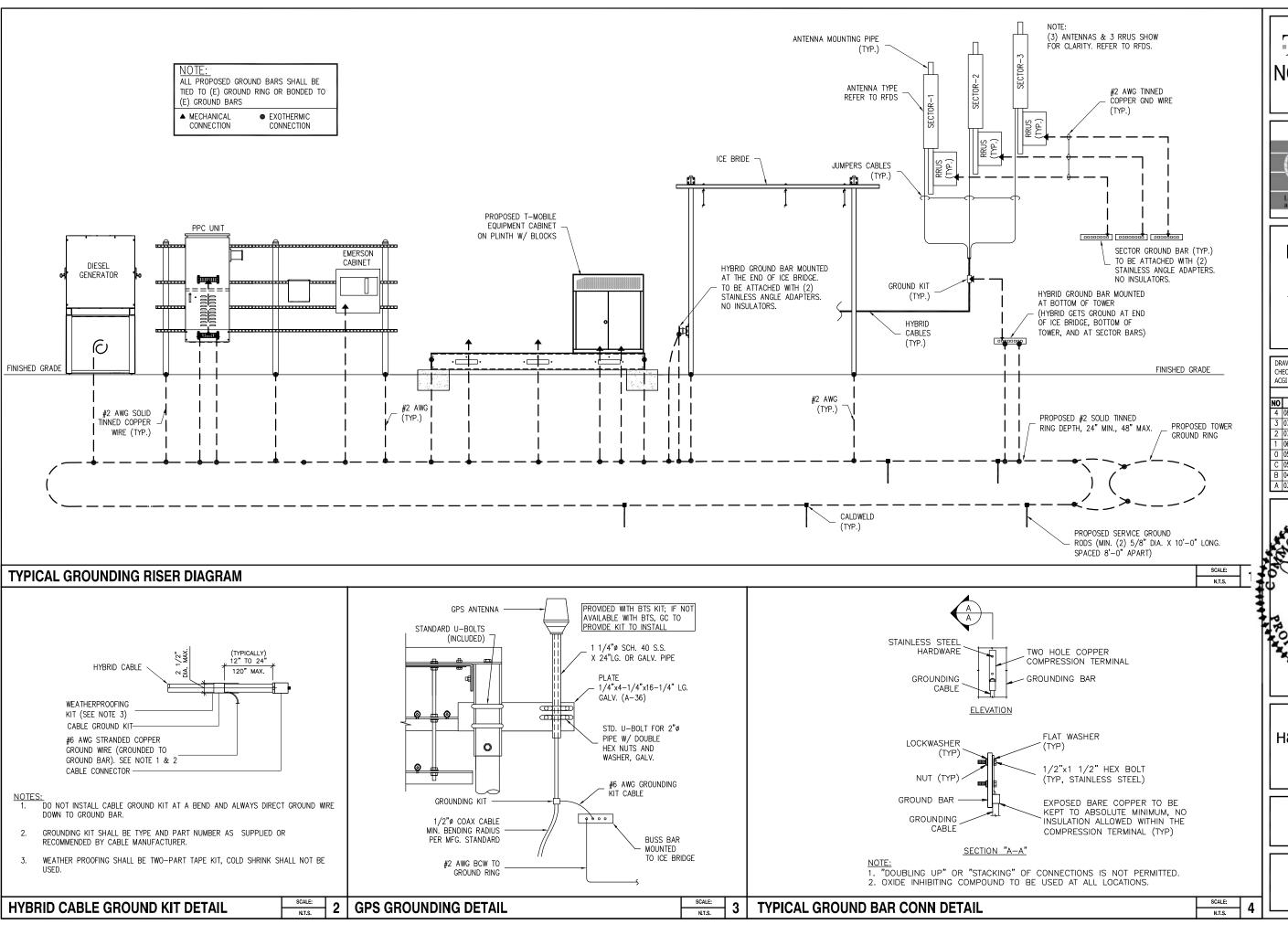


SHEET INFORMATION VA70330D **H&S DEVELOPMENT GROUP**

HAMPTON, VA 23661 CITY OF HAMPTON

GROUNDING SITE PLAN





T - Mobile - NORTHEAST LLC

324 MADISON MEWS
NORFOLK, VA 23510

PROJECT MANAGEMENT FIRM



9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

DRAWN BY: R. MADLOCK
CHECKED BY: J. GEORGE
ACGI JOB #: 18-4735, 18-1827, & 18-3917

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SHEET INFORMATION
VA70330D
H&S DEVELOPMENT
GROUP
700 GREENLAWN AVE

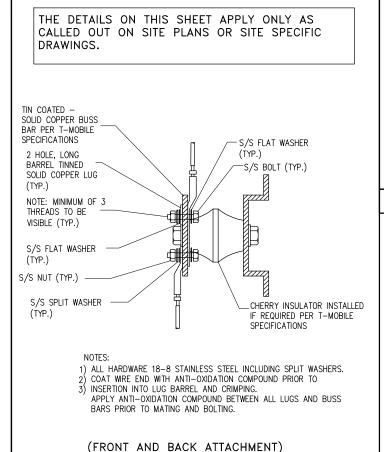
700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

GROUNDING DETAILS

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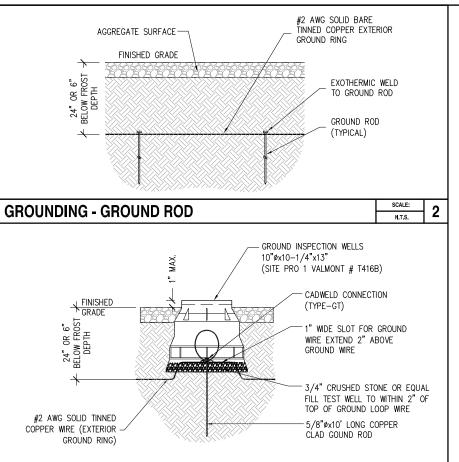
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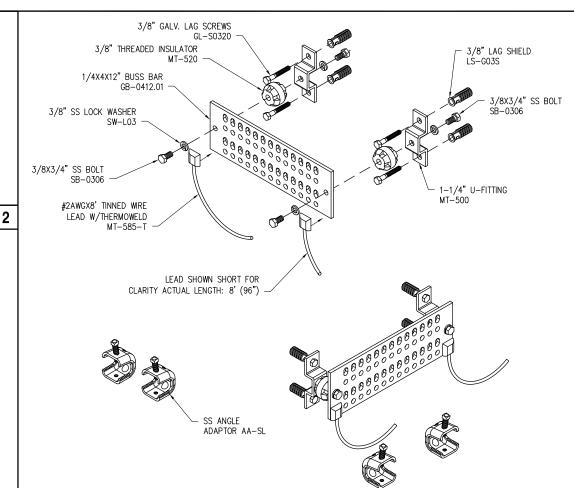


TYPICAL CABLE WEATHERPROOFING & GROUNDING

5

GATE GROUNDING DETAIL





APPLICANT NORTHEAST LLC 324 MADISON MEWS NORFOLK, VA 23510



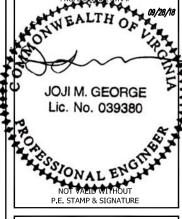


DRAWN BY: R. MADLOCK CHECKED BY: J. GEORGE 18-4735, 18-1827, & 18-3917

PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

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SHEET INFORMATION VA70330D **H&S DEVELOPMENT** GROUP 700 GREENLAWN AVE

HAMPTON, VA 23661 CITY OF HAMPTON

GROUNDING DETAILS

G-3

SCALE:

N.T.S.

6

SCALE: SCALE: SCALE: **GROUNDING - GENERAL LUG DETAIL GROUNDING - TEST WELL** 3 **GROUND BAR** N.T.S. N.T.S. N.T.S. -SLOT FOR ADJUSTABLE BAND CLAMP GROUNDING -CLAMP PUTTY HARDWARE #2 STRANDED CU. TAPE WELDING CABLE BY MTS #MT-C5915 APPLY GALVANIZING GROUNDING GATE POST (TYP.) #6 GROUND PAINT OVER CADWELD CLAME PER MFG's SPECIFICATIONS ASSEMBLY ĽEAD EXOTHERMIC WELD (THERMOWELD OR EXOTHERMIC WELD ÈQUIVALENT) (#2 WIRE TO GATE & POST USE MOLD #VBC-2G-D08-V)(ADD PIPE SIZE TO MOLD #) FIGURE 1 FIGURE 2 FIGURE 3 TYP VB CADWELD FINISHED GRADE WELD METAL SIZE #90 1st LAYER ELECTRICAL TAPE SUBGRADE 2nd LAYER MASTIC TAPE 3rd LAYER #2 SOLID TINNED BARE ELECTRICAL TAPE #2 SOLID TINNED BARE #6 GROUND COPPER WIRE, CONNECT #2 STRAMDED CU. COPPER WIRE. EXTEND TO ĽEAD TO GROUND ROD OR GATE FRAME (T.Y.P.) OPPOSITE FENCE POST FOR WELDING CABLE BY MTS RING PER GROUNDING GROUNDING BURIED GATE JUMPER #MT -C5915 2 HOLE LUG FIGURE 4 FIGURE 5 FIGURE 6

1.1	PURPUSE AND INTENT		Α.	AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR	
1.2	CONFLICTS			SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH. SHOULD THERE BE ANY	
1.3	CLEANING			DISCREPANCIES BETWEEN REQUIREMENTS SHOWN IN BOTH, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.	
1.4	CODES		B.	THE INTENTION OR THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF	
1.5	LICENSING		C.	THE WORK AS STIPULATED IN THE CONTRACT. THE PURPOSE OF THE T-MOBILE WIRELESS CONSTRUCTION SPECIFICATIONS IS	
1.6	OSHA			TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED	
1.7	PHOTOS			TO COMPLETE THE WORK.	2.0
1.8	BUILDING PERMITS	1.2	CONFL A.	JCTS VERIFY ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIAL OR	
1.9	ZONING REGULATIONS & CONDITIONAL USE PERMITS			DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS OR DIMENSIONS SHOWN ON PLANS. SUBMIT NOTICE OF ANY DISCREPANCY IN DIMENSIONS OR OTHERWISE TO	
1.10	FAA PERMIT AND TOWER LIGHTING		В.	T-MOBILE WIRELESS FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST OR OF DIFFICULTIES OF	
1.11	TOWER SECURITY		٥.	CONDITIONS THAT MAY BE ENCOUNTERED, OR OF ANY OTHER RELEVANT MATTER CONCERNING THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN	
1.12	SITE CONTROL			EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR T O FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONSTRUCTION	
2.0	SITE PREPARATION			DOCUMENTS GOVERNING THE WORK.	
2.1	SCOPE OF WORK	1.3	CLEAN	NING KEEP THE SITE FREE FROM ACCUMULATION OF WASTE AND RUBBISH CAUSED	
2.2	PRODUCT AND MATERIALS			BY EMPLOYEES AT THE COMPLETION OF THE WORK. REMOVE ALL WASTE AND NON-CONSTRUCTION MATERIAL INCLUDING ALL CONTRACTOR TOOLS,	
3.0	<u>EARTHWORK</u>			SCAFFOLDING AND SURPLUS MATERIAL AND LEAVE SITE CLEAN AND READY FOR USE.	
3.1	SCOPE OF WORK	1.4	CODES		3.0
3.2	QUALITY ASSURANCE		JJDE	CONTRACTOR SHALL. BE RESPONSIBLE FOR FOLLOWING ALL LAWS, REGULATIONS AND RULES PROMULGATED BY FEDERAL STATE AND LOCAL AUTHORITIES WITH	5.0
3.3	PRODUCTS AND MATERIALS			JURISDICTION OVER THE SITE. THIS RESPONSIBILITY IS IN EFFECT RECARDLESS OF WHETHER THE LAW, ORDINANCE, REGULATION OR RULE IS MENTIONED IN	
3.4	CLEARING AND GRUBBING			THESE SPECIFICATIONS.	
3.5	STRIPPING	1.5	LICEN:	SING HAVE AND MAINTAIN A VALID CONTRACTORS LICENSE FOR THE LOCATION IN WHICH	
3.6	COMMON EXCAVATION			THE WORK IS TO BE PERFORMED. FOR JURISDICTIONS THAT LICENSE INDIVIDUAL TRADES, THE TRADESMAN OR SUBCONTRACTORS PERFORMING THOSE TRADES	
3.7	EMBANKMENT			SHALL BE LICENSED. RESEARCH AND COMPLY WITH LICENSING LAWS, PAY LICENSE FEES, AND SELECT AND INFORM SUBCONTRACTORS REGARDING THESE LAWS.	
3.8	SITE GRADING	1.6	OSHA		
3.9	SUBGRADE PREPARATION			FOLLOW ALL APPLICABLE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS, AND STATE LAWS BASED IN THE FEDERAL	
3.10	GEOTEXTILE FABRIC			OCCUPATIONAL SAFETY AND HEALTH ACT. THESE REGULATIONS INCLUDE BUT ARE NOT LIMITED TO. REGULATIONS DEALING WITH TOWER CONSTRUCTION AND SAFETY,	
3.11	GRAVEL SURFACING			EXCAVATIONS AND TRENCHING, AND WORK IN CONFINED SPACES. ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD RATS AT AII TIMES DURING	
4.0	TRENCHING			CONSTRUCTION.	
4.1	MATERIALS	1.7	PHOTO	PROVIDE PHOTOGRAPHIC EVIDENCE OF ALL FOUNDATION INSTALLATION, GROUNDING	
4.2	PIPE DETECTION AND IDENTIFICATION			AND TRENCHING AFTER PLACEMENT OF UTILITIES PRIOR TO BACKFILL.	
4.3	TRENCH EXCAVATION	1.8	BUILD	ING PERMITS T-MOBILE WIRELESS WILL SUBMIT CONSTRUCTION DOCUMENTS TO THE	
4.4	TRENCH PROTECTION	JURISI	DICTION	VAL AUTHORITY FOR PLAN CHECK AND REVIEW. CONTRACTOR WILL SUBMIT LICENSING	
4.5	BACKFILLING			AND WORKMAN'S COMPENSATION INFORMATION TO THE JURISDICTION AS REQUIRED TO OBTAIN THE BUILDING PERMIT. CONTRACTOR SHALL COORDINATE AND	
4.6	COMPACTION			SCHEDULE REQUIRED INSPECTIONS AND POST REQUIRED PERMITS AT THE JOB SITE. COMPLY WITH SPECIFIC PROJECT—RELATED REQUESTS AND SUGGESTIONS	
5.0	CHAIN LINK FENCES AND GATES			MADE BY BUILDING INSPECTOR AND INFORM CONSTRUCTION MANAGER OF ANY SUCH WORK THAT MAY BE BEYOND THE SCOPE OF THE CONTRACT OR DEVIATE	
5.1	GENERAL			FROM THE CONSTRUCTION DOCUMENTS. T-MOBILE WIRELESS WILL REIMBURSE THE CONTRACTOR FOR FEES FOR PLAN REVIEW, BUILDING PERMIT, CONNECTIONS AND	
52	PRODUCTS MD MATERIALS			INSPECTION.	
6.0	LANDSCAPING	1.9	ZONIN	G REGULATIONS AND CONDITIONAL USE PERMITS T-MOBILE WIRELESS WILL SUBMIT FOR AND OBTAIN ALL ZONING AND CONDITIONAL	
7.0	CONCRETE FORMWORK			USE PERMITS. SOME USE PERMITS MAY HAVE SPECIFIC REQUIREMENTS FOR THE SITE RELATED TO CONSTRUCTION SUCH AS NOISE REGULATIONS, HOURS OF WORK,	
8.0	CONCRETE REINFORCEMENT			ACCESS LIMITATIONS, ETC. THE CONSTRUCTION MANAGER WILL INFORM THE CONTRACTOR OF THESE REQUIREMENTS AT THE PRE-BID MEETING OR AS SHOWN	
9.0	CAST-IN PLACE CONCRETE			IN CONSTRUCTION DOCUMENTS.	
10.0	STRUCTURAL STEEL	1.10	FM PE	ERMIT AND TOWER LIGHTING REFER TO CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER FOR FAA	
11.0	GROUNDING			AND STATE LIGHTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE TEMPORARY FM APPROVED LIGHTING UNTIL PERMANENT LIGHTING IS OPERATIONAL	
		1.11	TOWEF	R SECURITY TOWER MUST BE FENCED, TEMPORARILY OR PERMANENTLY WITHIN 24 HOURS OF ERECTION. DO NOT ALLOW THE GATE ACCESSING THE TOWER AREA TO REMAIN OPEN OR UNATTENDED AT ANY TIME FOR ANY REASON. KEEP THE GATE CLOSED AND LOCKED WHEN NOT IN USE.	

1.0 CONSTRUCTION TO CONFORM TO T-MOBILE T-MOBILE INTEGRATED CONSTRUCTION

THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY

1.1 PURPOSE AND INTENT

TABLE OF CONTENTS

GENERAL REQUIREMENTS

PURPOSE AND INTENT

1.0

1.1

1.12 SITE CONTROL

- THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION AT THE SITE. ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO T-MOBILE WIRELESS.
- THE CONTRACTOR IS TO MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON THE SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE PROVISIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ANY COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE CONTRACTOR'S EXPENSE.
- ALL WASTE MATERIAL SHALL BE PROPERLY DISPOSED OF OFF-SITE OR AS DIRECTED BY THE CONSTRUCTION MANAGER AND IN ACCORDANCE WITH JURISDICTIONAL AUTHORITIES.

0 SITE PREPARATION

SCOPE OF WORK INCLUDES:

- PROTECTION OF EXISTING TREES, VEGETATION AND LANDSCAPING MATERIALS WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
- TRIMMING OF EXISTING TREES AND VEGETATION AS REQUIRED FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.
- CLEARING AND GRUBBING OF STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.
- TOPSOIL STRIPPING AND STOCKPILING.
- TEMPORARY EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL CONFORMING TO LOCAL REQUIREMENTS AS APPLICABLE.
- TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.
- PROTECTION AND TEMPORARY RELOCATION, STORAGE AND RE-INSTALLATION OF DUSTING FENCING AND OTHER SITE IMPROVEMENTS SCHEDULED FOR REUSE.
- REMOVAL AND LEGAL DISPOSAL OF CLEARED MATERIALS.
- 2.2 PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED III CONSTRUCTION DOCUMENTS.)
 - MATERIALS USED FOR TREE PROTECTION, EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL AS SUITABLE FOR SPECIFIC SITE

0 EARTH WORK

SCOPE OF WORK INCLUDES:

- EXCAVATION, TRENCHING, FILLING, COMPACTION, AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS AND UTILITIES.
- MATERIALS FOR SUB-BASE DRAINAGE FILL, FILL, BACKFILL AND GRAVEL FOR SLABS, PAVEMENTS AND IMPROVEMENTS.
- ROCK EXCAVATION WITHOUT BLASTING.
- SUPPLY OF ADDITIONAL MATERIALS FROM OFFSITE AS REQUIRED.
- REMOVAL AND LEGAL DISPOSAL OF EXCAVATED MATERIALS AS REQUIRED 3.2 QUALITY ASSURANCE

COMPACTION:

- UNDER STRUCTURES, BUILDING SLABS, PAVEMENTS AND WALKWAYS WILL OBTAIN A 95 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE
- GRADING TOLERANCES OUTSIDE BUILDING CODES LAWNS, UNPAVED AREAS AND WALKS PLUS OR MINUS 1 INCH.
- UNDER PAVEMENTS PLUS OR MINUS 1/2 INCH.
- GRADING TOLERANCE FOR FILL UNDER ALL CONCRETE APPLICATIONS: PLUS OR MINUS 1/2 INCH MEASURED WITH 10 FOOT STRAIGHTEDGE.
- PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS NOTED IN CONSTRUCTION DOCUMENTS.)
 - SUBBASE MATERIAL GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE OR SLAG. AND NATURAL SAND.
- WASHED MATERIAL EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL WITH 95 PERCENT PASSING A 1 1/2 INCH SIEVE.
- GRADING MATERIAL WILL CONSIST OF: SATISFACTORY NATIVE OR MPORTED SOILMATERIALS FREE OF CLAY, ROCK OR GRAVEL NOT LARGER THAN 2 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS AND OTHER UNSUITABLE MATERIALS WILL NOT BE ALLOWED FOR USE. IMPORTED MATERIALS SHALL HAVE A CLAY CONTENT NO MORE THAN 5
- BACKFILL MATERIALS WILL CONSIST OF: SATISFACTORY NON-COHESIVE NATIVE OR IMPORTED SOIL MATERIALS FREE OF CLAY, ROCK OR GRAVEL NOT LARGER THAN 4 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, AND OTHER UNSUITABLE MATERIALS. IMPORTED MATERIAL SHALL HAVE A CLAY CONTENT OF NO MORE THAN 5 PERCENT.
- GRAVEL MATERIAL EVENLY GRADED MIXTURE OF CRUSHED STONE OR GRAVEL WITH 95 PERCENT PASSING A 1 1/2 INCH SIEVE
- F. GEOTEXTILE FABRIC: AS PER CONSTRUCTION DOCUMENTS.

 3.4 CLEARING AND GRUBBING REMOVE ALL VEGETATION AND MATERIALS AS REQUIRED. REMOVE STUMPS COMPLETELY UNDER FOUNDATIONS AND ROADWAY. DISPOSE OF CLEARING AND GRUBBING OFF-SITE. OR IN AN ON-SITE LOCATION APPROVED BY CONSTRUCTION MANAGER
- STRIP NOT LESS THAN 3 INCHES OF SOD AND TOPSOIL FROM AREAS THAT WILL UNDERLAY GRAVEL PAVEMENT, NEW STRUCTURES OR NEW EMBANKMENTS. STOCKPILE STRIPPING ON-SITE FOR RE-USE IN FINAL LANDSCAPING.
- COMMON EXCAVATION EXCAVATE TO DEPTH, LINES AND GRADES SHOWN ON THE PLANS OR AS OTHERWISE SPECIFIED.
 - TEMPORARILY STOCKPILE ON-SITE EXCAVATION AT AN APPROVED LOCATION WITHIN THE WORK AREA UNTIL SITE GRADING IS COMPLETE STOCKPILE SHALL NOT EXCEED 15 FEET IN HEIGHT
 - LEGALLY DISPOSE OF EXCESS COMMON EXCAVATION OFF-SITE.

3.7 EMBANKMENT

- CONSTRUCT EMBANKMENT TO THE LINES AND GRADE SHOWN ON THE DRAWINGS CONSTRUCT EMBANKMENT FROM ON-SITE EXCAVATION MATERIALS WHEN SUITABLE USE IMPORTED BACKFILL ONLY AFTER AVAILABLE ON-SITE EXCAVATION MATERIALS HAVE BEEN USED.
- CONSTRUCT IN LIFTS OF NOT MORE THAN 12 INCHES IN LOOSE DEPTH. THE FULL WIDTH OF THE CROSS SECTION SHALL BE BROUGHT UP UNIFORMLY.
 - MATERIAL SHALL NOT BE PLACED IN LAYERS AND SHALL BE NEAR OPTIMUM MOISTURE CONTENT BEFORE ROLLING TO OBTAIN THE PRESCRIBED COMPACTION. WETTING DR DRYING OF THE MATERIAL AND MANIPULATION TO SECURE A UNIFORM MOISTURE CONTENT THROUGHOUT THE LAYER MAY BE REQUIRED. SUCH OPERATIONS SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM. SHOULD THE MATERIAL BE TOO WET TO PERMIT PROPER COMPACTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO UTILIZE MATERIAL WITH AN ACCEPTABLE MOISTURE CONTENT
- DO NOT PLACE FROZEN MATERIAL IN THE EMBANKMENT AND DO NOT PLACE EMBANKMENT MATERIAL UPON FROZEN MATERIAL
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND THE REPLACEMENT OF ANY PORTION WHICH HAS BECOME DISPLACED DUE TO THE CONTRACTORS OPERATIONS.
- START LAYERS IN THE DEEPEST PORTION OF THE FILL, AND AS PLACEMENT PROGRESSES, CONSTRUCT LAYERS APPROXIMATELY PARALLEL TO THE FINISHED GRADE LINE.
- ROUTE EQUIPMENT, BOTH LOADED AND EMPTY, OVER THE FULL WIDTH OF EMBANKMENT TO ENSURE UNIFORMITY OF MATERIAL PLACEMENT.
- COMPACT EMBANKMENT UNDERLYING NEW GRAVEL PAVING FLOOR SLABS AND STRUCTURES TO A 95 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT. COMPACT NON-STRUCTURAL AREA EMBANKMENTS TO A MINIMUM OF 90 % OF ASTM 0-1557.

3.8 SITE GRADING

- USING ON-SITE EXCAVATION MATERIALS SHAPE, TRIM, FINISH AND COMPACT SURFACE AREAS TO CONFORM TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE DRAWINGS OR AS DESIGNATED BY THE CONSTRUCTION MANAGER.
- GRADE SURFACES TO DRAIN AND ELIMINATE ANY PONDING OR EROSION.
- ELIMINATE WHEEL RUTS BY REGRADING.
- COMPACT AREAS UNDERLYING NEW GRAVEL PAVING, FLOOR SLABS AND STRUCTURES TO A 95 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1551 OR WITHIN PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT
- CONSTRUCT FINISHED SURFACE OF SITE GRADING AREAS WITHIN ONE INCH FROM SPECIFIED GRADE

3.9 SUBGRADE PREPARATION

- SHAPE TOP OF SUBGRADE TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
- MAINTAIN TOP OF SUBGRADE TO A FREE-DRAINING CONDITION.
- DO NOT STOCKPILE MATERIALS ON TOP OF SUBGRADE UNLESS AUTHORIZED BY CONSTRUCTION MANAGER.
- COMPACT THE TOP 12 INCHES OF SUBGRADE TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINILS 3 PERCENT OF OPTIMUM MOISTURE CONTENT
- CONSTRUCT TOP OF SUBGRADE WITHIN ONE INCH OF ESTABLISHED GRADE AND CROSS-SECTION.

LAY GEOTEXTILE FABRIC OVER COMPACTED SUBGRADE AS PER CONSTRUCTION DOCUMENTS IN THE COMPOUND AREA AND UNDER LENGTH OF ROAD (WHEN REQUIRED). LAP ALL JOINTS TO A MINIMUM Of 36 INCHES.

3.11 GRAVEL SURFACING

- CONSTRUCT GRAVEL SURFACING AREAS USING CRUSHED AGGREGATE BASE AND FINISH COURSES AS SPECIFIED BY CONSTRUCTION MANAGER OR CONSTRUCTION
- SPREAD GRAVEL AND RAKE TO OBTAIN A UNIFORM SURFACE AREA.

CALL LOCAL UNDERGROUND UTILITY LOCATING SERVICE BEFORE ANY EXCAVATION OR TRENCHING.

FILL MATERIAL SHALL BE OBTAINED, WHEN POSSIBLE FROM MATERIALS EXCAVATED FROM TRENCHES. ON-SITE STRUCTURAL FILL SAND OR SLURRY SHALL BE APPROVED BY THE CONSTRUCTION MANAGER AND SHALL CONFORM TO LOCAL GOVERNING JURISDICTIONS AND LITHLITY COMPANY REQUIREMENTS. THE FILL MATERIAL SHALL CONTAIN NO ORGANIC MATERIAL OR ROCKS. NOR SHALL CONTAIN OBJECTIONABLE MATERIALS AND /OR MATERIALS DESIGNATED AS HAZARDOUS OR INDUSTRIAL BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE FILL MATERIAL SHALL CONTAIN FINES SUFFICIENT TO FILL ALL VOIDS IN THE MATERIAL COMPACTION OF BACKFILL OR BORROW SOIL SHALL BE PLACED IN 12 INCH LOOSE LIFTS WHEN UTILIZING HEAVY COMPACTION EQUIPMENT OR 6 INCH LOOSE LIFTS WHEN UTILIZING

NORTHEAST LLC 324 MADISON MEWS

APPLICANT

NORFOLK, VA 23510





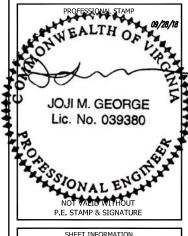
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1 GEORGE

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VA70330D **H&S DEVELOPMENT GROUP**

700 GREENLAWN AVE

HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

N-1

4.2 PIPE DETECTION AND IDENTIFICATION

UTILIZING WARNING TAPE: ALL ELECTRIC SERVICE TRENCHES SHALL BE MARKED WITH WARNING TAPE.

4.3 TRENCH EXCAVATION

- DIG TRENCH TO LINES AND GRADES SHOWN ON THE PLANS OR AS DIRECTED BY CONSTRUCTION
- TRENCH LENGTH SHALL BE SUFFICIENT TO ALLOW FOR SATISFACTORY CONSTRUCTION AND INSPECTION OF THE PROJECT WITHOUT ENDANGERING OTHER CONSTRUCTION WORK OR ADJACENT FACILITIES
- DISPOSE OF EXCESS AND UNSUITABLE EXCAVATION MATERIAL PROPERLY, AS DIRECTED BY
- USE HAND METHODS FOR EXCAVATION THAT CANNOT BE ACCOMPLISHED WITHOUT ENDANGERING EXISTING OR NEW STRUCTURES OR OTHER FACILITIES.

4.4 TRENCH PROTECTION

- PROVIDE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PROTECT TRENCHES AT ALL TIMES.
- SHEETING AND BRACING: MEET OR EXCEED OSHA REQUIREMENTS.

4.5 BACKFILLING

- NOTIFY THE CONSTRUCTION MANAGER AT LEAST 24 HOURS IN ADVANCE OF BACKFILLING.
- BACKFILL TRENCH WITH LIFTS UP TO 12 INCHES, LOOSE MEASURE.
- PROTECT CONDUIT FROM LATERAL MOVEMENT, DAMAGE FROM IMPACT OR UNBALANCED LOADING TO AVOID DISPLACEMENT OF CONDUIT AND/OR STRUCTURES. DO NOT FREE FALL BACKFILL INTO TRENCH UNTIL AT LEAST 12 INCHES OF COVER IS OVER THE CONDUIT.

4.6 COMPACTION

- COMPACT BACKFILL TO A 95 PERCENT COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM 0-1557 OR WITHIN PLUS OR MINUS 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
- IF REQUIRED COMPACTION DENSITY HAS NOT BEEN OBTAINED, REMOVE THE BACKFILL FROM THE TRENCH OR STRUCTURE, REPLACE WITH APPROVED BACKFILL AND RECOMPACT AS SPECIFIED.
- ANY SUBSEQUENT SETTLEMENT OF TRENCH OR STRUCTURE BACKFILL DURING MAINTENANCE PERIOD SHALL BE CONSIDERED THE RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY CORRECTED.

5.0 <u>CHAIN LINK FENCES AND GATES</u> 5.1 GENERAL

- PROVIDE CHAIN LINK FENCES AND GATES AS COMPLETE UNITS BY A SINGLE SUPPLY SOURCE INCLUDING NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENERS.
- 5.2 PRODUCTS AND MATERIALS (AS APPROVED BY CONSTRUCTION MANAGER OR AS WITHIN CONSTRUCTION DOCUMENTS)
 - COMPOUND FABRIC 84 INCHES HIGH AND OVER WITH 2-INCH MESH SHALL BE KNUCKLED AT ONE SELVAGE AND TWISTED AT THE OTHER.

COMPLY WITH CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL. FURNISH ONE PIECE OF FABRIC WIDTHS. WIRE SIZE INCLUDES ZINC OR ALUMINUM COATING.

- SIZE: 2-INCH MESH 9 GAUGE (D.148-INCH DIAMETER) WIRE.
- GALVANIZED STEEL FINISH: ASTM A 392. CLASS 2. WITH A MINIMUM 2.0 OZ. ZINC PER SQ. FT. OF UNCOATED WIRE SURFACE

C FRAMEWORK AND ACCESSORIES:

- GENERAL REQUIREMENTS: EXCEPT AS INDICATED OTHERWISE CONFORM TO THE CHAIN LINK FENCE MANUFACTURERS INSTITUTE (CLFMI) PRODUCT MANUAL INDUSTRIAL STEEL GUIDE FOR FENCE RAILS, POSTS, GATES AND ACCESSORIES INCLUDING TABLE II.
- STRENGTH REQUIREMENTS FOR POSTS AND RAILS CONFORMING TO ASTM F 669.
- TYPE 1 PIPE HOT-DIPPED GALVANIZED STEEL PIPE CONFORMING TO ASTM F 1083 PLANE ENDS STANDARD WEIGHT (SCHEDULE 40) WITH NOT LESS THAN 18 OZ. ZINC PER SQ. FT. OF
- FILLINGS: COMPLY WITH ASTM F 526 MILL FINISHED ALUMINUM OR GALVANIZED IRON STEEL TO SUIT MANUFACTURER'S STANDARDS.
- TOP RAIL MANUFACTURERS LONGEST LENGTHS, WITH EXPANSION TYPE COUPLINGS, APPROXIMATELY 6 INCHES LONG, FOR EACH JOINT. PROVIDE MEANS FOR ATTACHING TOP RAIL SECURELY TO EACH GATE CORNER, PULL AND END POST.
- GALVANIZED STEEL 11/4 INCH NPS (1.66 INCH OD) TYPE I OR II STEEL PIPE OR 1.625 INCH x 1.25 INCH ROLL-FORMED C SECTIONS WEIGHING 1.35 LBS. PER FT.

SWING GATES:

COMPLY WITH ASTM F 9000. PROVIDE HARDWARE AND ACCESSORIES FOR EACH GATE. GALVANIZED PER ASTM A 153, AND IN ACCORDANCE WITH THE FOLLOWING:

- HINGES: NON LIFT- OFF TYPE. OFFSET TO PERMIT ISO DEG. GATE OPENING
- LATCH: MTS MULTI-LOCKING DEVICE MT-C6477 OR APPROVED EQUAL

KEEPER: PROVIDE KEEPER FOR VEHICLE GATES, WHICH AUTOMATICALLY ENGAGES GATE LEAF AND HOLDS IT IN OPEN POSITION UNTIL MANUALLY RELEASED.

PROVIDE CONCRETE CONSISTING OF PORTLAND CEMENT, ASTM C 150, AGGREGATES ASTM C 33, AND CLEAN WATER. MIX MATERIALS TO OBTAIN CONCRETE WITH A MINIMUM OF 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

6.0 <u>Landscaping</u>
A. Furnish, install and maintain landscape work as shown and or required within the CONSTRUCTION DOCUMENTS OR AS SPECIFIED IN THE T-MOBILE CONSTRUCTION SPECIFICATIONS.

7.0 CONCRETE FORMWORK

- A. FORMS: SMOOTH AND FREE OF SURFACE IRREGULARITIES. UTILIZE FORM RELEASE AGENTS.
- CHAMFER: EXPOSED EDGES OF ALL TOWER FOUNDATIONS SHALL RECEIVE A 3/4" BY 3/4" 45 DEGREE CHAMFER. OTHER EXPOSED EDGES SHALL RECEIVE A TOOLED RADIUS FINISH.
- UPON COMPLETION, REMOVE ALL FORMS, INCLUDING THOSE CONCEALED OR BURIED.
- REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

8.0 CONCRETE REINFORCEMENT

REFER TO STRUCTURAL DRAWINGS FOR ALL REQUIREMENTS.

- RF EQUIPMENT AND SHELTER PADS, FOOTINGS, PAVEMENT, DRIVES, CURBS, SIDEWALKS AND GUTTER: A558-1-2 OR WA610-1-4.
- PRECAST CURB INLETS/MANHOLES: ASTM C478.
- CAST IN PLACE CURB INLET: A564-3/4 -4
- PREPARE DESIGN MIXES FOR EACH TYPE & STRENGTH OF NORMAL-WEIGHT CONCRETE BY EITHER LABORATORY TRIAL BATCH OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 301. FOR THE TRIAL BOTH BATCH METHOD, USE A QUALIFIED INDEPENDENT TESTING AGENCY FOR PREPARING AND REPORTING PROPOSED MIX DESIGNS
- LIMIT USE OF FLY ASH TO 25%
- PROPORTION MIXES ACCORDING TO ACI 211.1 AND ACI 211.1 AND 301 TO PROVIDE NORMAL-WEIGHT CONCRETE WITH THE FOLLOWING PROPERTIES:
- COMPRESSIVE STRENGTH, 28-DAY, 3000 PSI EXCEPT AS OTHERWISE INDICATED HEREIN OR ON THE TOWER FOUNDATION DESIGN
- MAXIMUM WATER-CEMENT RATIO AT POINT OF PLACEMENT: 0.45.
- SLUMP LIMIT AT POINT OF PLACEMENT: 4" +/-
- SLUMP LIMIT FOR CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE SUPER PLASTICIZER: NOT MORE THAN 8 INCHES AFTER ADDING ADMIXTURE.
- ADD AIR-ENTRAINING ADMIXTURE AT MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING AIR CONTENT AS FOLLOWS WITH A TOLERANCE OF PLUS OR MINUS 1-1/2%:
- AIR CONTENT: 6.0% FOR 1" MAX. AGGREGRATE.
- ADJUSTMENT TO CONCRETE MIXES: MIX DESIGN ADJUSTMENTS MAY BE REQUESTED BY CONTRACTOR WHEN CHARACTERISTICS OF MATERIALS, PROJECT CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRENT. HOWEVER, IN NO CASE SHALL CONCRETE MIX BE PLACED WITH A SLUMP THAT EXCEEDS THE ABOVE.

9.0 CAST IN PLACE CONCRETE

FOR STRUCTURAL CONCRETE (FOOTINGS, FOUNDATIONS. ETC.), REFER TO STRUCTURAL DRAWINGS FOR REQUIREMENTS. FOR ANY MISCELLANEOUS CONCRETE, REFER TO SPECIFICATION BOOK OR OBTAIN

- A. ALL CONCRETE SHALL COMPLY WITH ASTM C94 UNLESS NOTED OTHERWISE.
- MINIMUM COMPRESSIVE STRENGTH (F'C) AT 28 DAYS: 4000 PSI FOR TOWER FOUNDATION AND 3500 PSI FOR ALL OTHER CONCRETE UNLESS SPECIFIED IN CONSTRUCTION DOCUMENTS.
- AIR ENTRAINMENT: PROVIDE 4 TO 8% AIR ENTRAINMENT FOR ALL CONCRETE SUBJECT TO
- CONCRETE TESTING: ALL FOUNDATION CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY APPROVED BY THE CONSTRUCTION MANAGER. ALL STRUCTURAL TOWER FOUNDATION CONCRETE MUST BE TESTED. EQUIPMENT OR BUILDING PADS ARE NOT REQUIRED TO BE TESTED. UNLESS OTHERWISE NOTED BY CONSTRUCTION MANAGER. PROVIDE A MINIMUM OF 5 CYLINDERS (2-7-DAY, 2-28-DAY, 1-SPARE) FOR EACH OATS POUR, OR FOR EVERY 50 YARDS PLACED, WHICHEVER 15 GREATER. ADDITIONAL TESTS OR CYLINDERS MAY BE REQUIRED BY CONSTRUCTION MANAGER. A SLUMP, AIR, AND TEMPERATURE TEST SHALL BE PERFORMED FOR EACH SET OF CYLINDERS CAST. PREFERABLY, TESTS SHALL BE PERFORMED AT THE LOCATION OF ANCHOR BOLTS (PIERS - FOR MAT & PIERS, CAISSONS - TOP 1/3 OF CAISSON). TESTS SHALL ALSO BE REQÙIRED FOR CONCRETE CONSIDERED BEING LESS THAN DESIRABLE BY CONCRETE SPECIFICATION STANDARDS. THE TESTING AGENCY HAS THE AUTHORITY TO NOT ACCEPT CONCRETE MEETING THESE SPECIFICATIONS FOR T-MOBILE. THE CONTRACTOR IS RESPONSIBLE FOR ANY CONCRETE NOT MEETING THESE STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE TESTING AGENCY A MINIMUM OF 24 HOURS IN ADVANCE OF EACH FOUNDATION POUR. TEST REPORTS SHALL BE FORWARDED TO T-MOBILE CONSTRUCTION MANAGER WITHIN 24 HOURS OF LAB TEST.
- VIBRATE ALL CONCRETE USING SUFFICIENT HIGH FREQUENCY LOW AMPLITUDE MECHANICAL IMMERSION TYPE VIBRATORS INSERT VIBRATORS IN CONCRETE AT REGULAR INTERVALS AND OVER ENTIRE SURFACE TO SOLIDLY FILL CONCRETE MECHANICAL IMMERSION TYPE VIBRATORS. INSERT VIBRATORS IN CONCRETE AT REGULAR INTERVALS AND OVER ENTIRE SURFACE TO SOLIDLY FILL CONCRETE AROUND AND BETWEEN REINFORCEMENT BARS AND INTO CORNERS AND IRREGULARITIES. VIBRATE THOROUGHLY THROUGH EACH LIFT TO THE PREVIOUS LIFE REVERBERATION AS LATE AS THE RUNNING VIBRATOR WILL SINK THROUGH UPPER LAKERS OF ITS WEIGHT IS RECOMMENDED. DISCONTINUE VIBRATION WHEN RISING ENTRAPPED AIR BUBBLES STOP BREAKING THE LEVELING SURFACE. DO NOT OVER VIBRATE AS THIS MAY CAUSE SEGREGATION.

F. FINISHING EXPOSED CONCRETE SURFACES:

- THESE PROVISIONS APPLY TO ALL EXPOSED AND ALL FORMED CONCRETE, EXTERIOR OR INTERIOR. UNLESS SPECIFICALLY DETAILED OTHERWISE, PERFORM PROCEDURES PRIOR TO APPLICATION OF ANY CURING COMPOUNDS.
- ALL SURFACES: THOROUGHLY CLEAN OFF ALL STAINS, SPATTER AND LOOSE MATERIAL.
- FINS, RIDGES AND HIGH SPOTS: HONE SMOOTH WITH ABRASIVE POWER GRINDERS WHILE CONCRETE IS GREEN, IMMEDIATELY AFTER FORM REMOVAL
- FORM TIE HOLES AND DEEP DEPRESSIONS: FLUSH THOROUGHLY WITH CLEAN WATER AND TAMP TO OVERFULL WITH DRYPACK, CURE 10 DAYS AND HONE FLUSH AND SMOOTH.
- ROCK POCKETS, HONEYCOMB, SAND STREAKS, DEBRIS AND VOIDS: CUT OUT AT LEAST 1 INCH DEEP WITH SIDES PERPENDICULAR TO SURFACE. FLUSH THOROUGHLY WITH CLEAN WATER, COAT SURFACE WITH NEAT CEMENT PASTE AND TAMP TO OVERFULL WITH DRYPACK IN AT LEAST TWO LAYERS. CURE FOR 10 DAYS AND HONE FLUSHED AND SMOOTH.
- CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF ALL ELECTRICAL OPENINGS AND EQUIPMENT/BUILDING PADS WITH THE ELECTRICAL DRAWINGS AND SHOP DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITIES.

CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON STRUCTURAL DRAWINGS.

PRIOR TO POURING CONCRETE THE INDEPENDENT TESTING AGENCY SHALL INSPECT ALL FOUNDATION STEEL AND FOUNDATION SUBGRADE

10.0 STRUCTURAL STEEL

MEET OR EXCEED MANUFACTURER'S RECOMMENDATIONS.

- UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
- ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A-615, GRADE 60,
- HEATING AND WELDING OF BARS IS PROHIBITED WITH THE EXCEPTION OF WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER.
- ALL REINFORCEMENT BARS TO BE FREE FROM LOOSE RUST AND SCALE.
- UNLESS OTHERWISE NOTED, ALL REINFORCEMENT SHALL HAVE A MINIMUM CONCRETE COVERAGE OF 3 INCHES. THIS MAY REQUIRE SPACERS AND CHAIRS AS REQUIRED BY TESTING AGENCY OR
- SPLICES IN REINFORCEMENT STEEL ARE PROHIBITED, UNLESS APPROVED BY CONSTRUCTION MANAGER. ALL SPLICES MUST THEN MEET ALL APPLICABLE ASTM STANDARDS FOR SPLICING.

GENERATOR ACCESSORIES

OUTPUT

MAIN LINE CIRCUIT BREAKER-100 AMPS,

FLECTRONIC/ISOCHRONOUS GOVERNOR

BATTERY SYSTEM-LEAD ACID TYPE

BATTERY CHARGER-AUTOMATIC 6 AMP

BATTERY RÁCK, CABLES AND STARTING

INSTALLED ON GENERATOR

VOLTAGE REGULATOR ±2%

SAFFGUARD BREAKER

ENGINE ELECTRICAL ACCESSORIES

MEET ALL APPLICABLE CODES, REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND T-MOBILE CONSTRUCTION SPECIFICATIONS.

- GENERATOR SPECIFICATIONS

 1. SWITCHES AND STANDARD FEATURES
 - CYCLIC CRANKING
 - ALARM HORN WITH SILENCING SWITCH
 - VOLTAGE ADJUSTING RHEOSTAT
 - OVERVOLTAGE PROTECTION
 - REMOTE TWO-WIRE AUTO START SYSTEM LAMP TEST SWITCH
 - RUN-OFF-RESET/AUTO SWITCH (ENGINE START)
 - ENGINE COOL DOWN TIMER (5 MINUTES) ERROR-PROOF WIRING HARNESS FOR ELECTRICAL
- CONNECTIONS PANEL LAMPS
- DC CIRCUIT PROTECTION

UNIT ACCESSORIES

- WEATHER HOUSING-STANDARD WITH ROOF MOUNTED SILFNCER. MOUNTED CRITICAL GRADE EXHAUST SILENCER
- TAIL PIPE AND RAIN CAP
- COOLING SYSTEM ACCESSORIES
- UNIT MOUNTED RADIATOR ENGINE BLOCK HEATER

FUEL SYSTEM ACCESSORIES FLEXIBLE FUEL LINES

- ENGINE BLOCK HEATER
- SUBBASE FUEL TANK-172 GALLONS
- DOUBLE WALL CONSTRUCTION WITH LEAK DETECTION MONITOR
- U.L. 142 LISTED
- FUEL LEVEL GAUGE
- LOW FUEL LEVEL ALARM FILL PIPE EXTENDED 10% INTO TANK
- HIGH-FUEL LEVEL ALARM-SET AT 95%
- 7.5 GALLON LOCKABLE FILL WITH SPILL CONTAINMENT

APPLICANT T - Mobile -NORTHEAST LLC 324 MADISON MEWS NORFOLK, VA 23510

PROJECT MANAGEMENT FIRM eders in Communication Develop



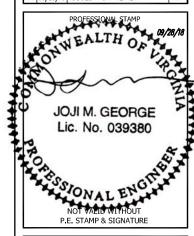
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NO DATE DESCRIPTION BY 08/10/18 | SITE RELOCATED RM 3 07/09/18 BP COMMENTS 2 07/02/18 TOWER HEIGHT RM RM 06/28/18 BP COMMENTS 05/22/18 FINAL CD C 05/08/18 REVISED PER REDLINES RM B 04/06/18 REVISED PER REDLINES RM A 03/28/18 ISSUED FOR REVIEW



SHEET INFORMATION VA70330D **H&S DEVELOPMENT GROUP**

> 700 GREENLAWN AVE HAMPTON, VA 23661 CITY OF HAMPTON

SHEET TITLE **GENERAL NOTES**

GENERAL NOTES:

- THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
- 2 IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED. INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SNORING, 115, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL ORDINANCES TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
- 3. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- 4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THAT REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT
- 5. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT, THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF A NEW TOWER.
- 6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING ARE REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A
- 7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES OR ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
- 8. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S
- 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 24 HOURS OF NOTICE SHOULD BE GIVEN AND THE BUILDING INSPECTION DEPARTMENTS HAVE REQUESTED THAT GROUPS OF TWO OR THREE SITES BE SCHEDULED AT ONE TIME IF POSSIBLE.
- 10. FOR NEW TOWERS, T-MOBILE WILL CONFIRM FAA APPROVAL OF TOWER LOCATION BY ISSUING TOWER RELEASE FORM. NO TOWER SHALL BE CONSTRUCTED LINTIL TOWER RELEASE FORM IS ISSUED TO THE CONTRACTOR
- 11. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS AND TOWER DRAWINGS/ANALYSIS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
- 12. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION
- 13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES WILL BE CORRECTED AT THE CONTRACTORS EXPENSE
- 14. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE KEPT TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO PROPERTY OUTSIDE THE LEASED PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR
- 15. ALL SUITABLE BORROW MATERIAL FOR BACKFILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR
- 16. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD
- 17. PERMITS: THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC. AND PROVIDE E911 ADDRESS TO T-MOBILE WIRELESS.
- 18. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS, ETC., BETWEEN THE WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT

- **EXCAVATION AND GRADING NOTES:**
- I. ALL CUT AND FILL SLOPES SHALL BE 3 : I MAXIMUM.
- 2. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED IF REQUIRED.
- 3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH. THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION SHALL BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION
- 4. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS
- 5. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS AND SO FORTH.
- 6. ALL BACKFILLING SHALL (1) USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAYS, SAND AND GRAVEL OR SOFT SHALE, (2) BE FREE FROM CLODS OR STONES OVER 2 1/2" MAXIMUM DIMENSIONS. MD (3) BE PLACED IN LAYERS AND COMPACTED.
- 7. SITE FILL MATERIAL AND FOUNDATION BACKFILL SHALL BE PLACED IN LAYERS MAXIMUM 6' DEEP BEFORE COMPACTION. EACH LAYER SHALL BE SPRINKLED IF REQUIRED AND COMPACTED BY HAND OR MACHINE TAMPERS TO 95% OF MAXIMUM DENSITY. AT THE OPTIMUM MOISTURE CONTENT OF $\pm 2\%$ AS DETERMINED BY ASTM DESIGNATION D-69B, UNLESS OTHERWISE APPROVED. SUCH BACKFILL SHALL NOT BE PLACED BEFORE 3 DAYS AFTER PLACEMENT OF CONCRETE
- 8. THE FOUNDATION AREA SHALL BE GRADED TO PROVIDE WATER RUNOFF AND PREVENT WATER FROM STANDING. THE FINAL GRADE SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE FOUNDATION AREA (UP TO ONE FOOT OUTSIDE THE FENCE OR GROUND SYSTEM PERIMETER) AND SHALL BE COVERED WITH A GEOTEXTILE FABRIC MIRAFI 500X OR APPROVED EQUAL TO PREVENT REOCCURRENCE OF VEGETATIVE GROWTH. AN THEN SHALL BE COVERED WITH 4" DEEP COMPACTED
- 9. THE CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, CITY, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENT FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS FROM LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS AND CHECK DAMS.
- 10. FILL PREPARATION: REMOVE ALL VEGETATION, TOPSOIL DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS AND DELETERIOUS MATERIAL FROM GROUND SURFACE PRIOR TO PLACING FILLS, PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO REQUIRED DEPTH, PULVERIZE, MOISTURE CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
- 11. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES AND GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE, FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADE TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE.
- 12. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE, USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR ANY DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S
- 13. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE
- 14. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S
- 15. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF
- 16. RIPRAP SHALL BE CLEAN, HARD, SOUND, DURABLE AND UNIFORM IN QUALITY AND FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI OR OTHER DELETERIOUS SUBSTANCE.

1. ALL UTILITY POLES SHALL BE 35 FT., CLASS 4 OR AS DIRECTED BY THE UTILITY PROVIDER. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY PRIOR TO EXCAVATING OR INSTALLING ANY UTILITY POLES.

ABBREVIATION KEY HANGER HGR. ANCHOR BELT HEIGHT ABV. ABOVE ISOLATED COPPER GROUND BUS ICGB. &CCA ANTENNA CABLE COVER ASSEMBLY IN.(") INCH(FS) INTERIOR ADD'L ADDITIONAL ABOVE FINISHED FLOOR POUND(S) ΔFF IB.(#) A.F.G. LAG BÔLTS ABOVE FINISHED GRADE ALUM. ALUMINUM L.F. LINEAR FEET (FOOT) ALTERNATE LONG(ITUDINAL) ANT. ANTENNA LOW LOSS MAS. MASONRY L.L APPRX APPROXIMATE(LY) MAXIMUM MACHINE BOLT ARCH. ARCHITECT(URAL MECH MECHANICAL AWG. AMERICAN WIRE GAUGE BLDG. MFR MANUFACTURER BUILDING MIN BLK. BLOCK MINIMUM MISC MISCELLANEOUS BLKG. BTM. BLOCKING MTL. BOTTOM MFTAL BM. NEW NO.(#) NUMBER BEAM (N) N.T.S. BOUNDARY NAILING NOT TO SCALE B.N. BTCW. BARE TINNED COPPER WIRE 0.C. ON CENTER B.O.F. BOTTOM OF FOOTING OPNG. OPENING P/C PCS B/U BACK-UP CABINET PRECAST CONCRETE PERSONAL COMMUNICATION SERVICES CAB. CABINET CANT. CANTILEVER(ED) PDU POWER DISTRIBUTION UNIT PLYWOOD PPC POWER PROTECTION CABINET PLY. PRC C.I.P. CAST IN PLÀCÉ PRIMARY RADIO CABINET CLG. CEILING P.S.F. POUNDS PER SQUARE FOOT CLR. CLEAR COL. POUNDS PER SQUARE INCH COLUMN CONC. P.T. PRESSURE TREATED CONCRETE C.J. CONTROL JOINT PWR. POWER (CABINET) CONN. CONNECTION(OR) QTY. QUANITY RAD.(R) RADIUS CONST. CONSTRUCTION CONT. CONTINUOUS REINF REINFORCEMENT(ING) PENNY (NAILS) REQ'D. REQUIRED DBL. RET DOUBLE REMOTE ELECTRICAL TILT DEPARTMENT DEPT RGS. RIGID GALVANIZED STEEL D.F. DOLIGIAR FIR SCH. SCHEDULE DIA.(ø) DIAMETER SHT. SHEET SIM. SPEC. DIAG DIAGONAL SIMII AR DIM. DIMENSION SPECIFICATION(S DWG. DRAWING(S SQ. S.S. STD. SOUARE STAINLESS STEEL DWL DOWEL(S) STANDARD EA. FACH EACH SIDE STL. E.S. STEFL E.W. STRUC STRUCTURAL EACH WAY FI EVATION TEMP. **TEMPORARY** ELEC. ELECTRICAL THK. THICK(NESS) ELEV. ELEVATOR TOE NAIL EMT. E.N. FLECTRIC METALLIC TUBING T.O.A. TOP OF ANTENNA TOC FDGF NAII TOP OF CURR ENG. ENGINEER T.O.F. TOP OF FOUNDATION EQ. EQUAL T.O.P. TOP OF PLATE (PARAPET) EXP. **EXPANSION** T.O.S. TOP OF STEEL (E) FXISTING T.O.W. TOP OF WALL EXT. EXTERIOR FAB. FABRICATION(OR) UNDER GROUND F.F. U.G. FINISH FLOOR UNDERWRITERS LABORATORY F.G. U.L. FINISH GRADE UNO UNLESS NOTED OTHERWISE FIN. FINISH(ED) FLR. FLOOR FDN. FOUNDATION V.I.F. VERIFY IN FIELD WIDE (WIDTH) F.O.C. FACE OF CONCRETE F.O.M. FACE OF MASONR' W/ F.O.S. F.O.W. FACE OF STUD WD WOOD WEATHERPROOF FACE OF WALL W.P. FINISH SURFACE WT. WEIGHT FFI TRANSFORMER FLANGE FACING INSIDE FF0 FLANGE FACING OUTSIDE CENTERLINE FT.(') FOOT(FFFT) PI ATF FTG. FOOTING G. GROWTH (CABINET) GALVINIZE(D) FI. G.F.I. GROUND FAULT CIRCUIT INTERRUPTER GLB. GLUE LAMINATED BEAM GPS GLOBAL POSITIONING SYSTEM GRND. GROUND HDR. HEADER SECTION REFERENCE \triangle REVISION 100 ROOM NUMBER (1) KEY NOTES 1 KEYED NOTES NORTH ARROW DETAIL REFERENCE ELEVATION REFERENCE $\left(C-1\right)$

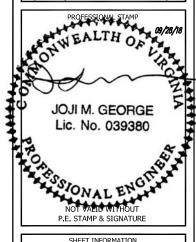






FAX 866-364-8375

DRAWN BY R MADLOCK CHECKED BY: J. GEORGE ACGI JOB #: 18-4735, 18-1827, & 18-3917 REVISIONS NO DATE DESCRIPTION BY 08/10/18 SITE RELOCATED RM 3 07/09/18 BP COMMENTS 2 07/02/18 TOWER HEIGHT RM 06/28/18 BP COMMENTS RM 05/22/18 FINAL CD RM C 05/08/18 REVISED PER REDLINES RM RM B 04/06/18 REVISED PER REDLINES RM A 03/28/18 ISSUED FOR REVIEW

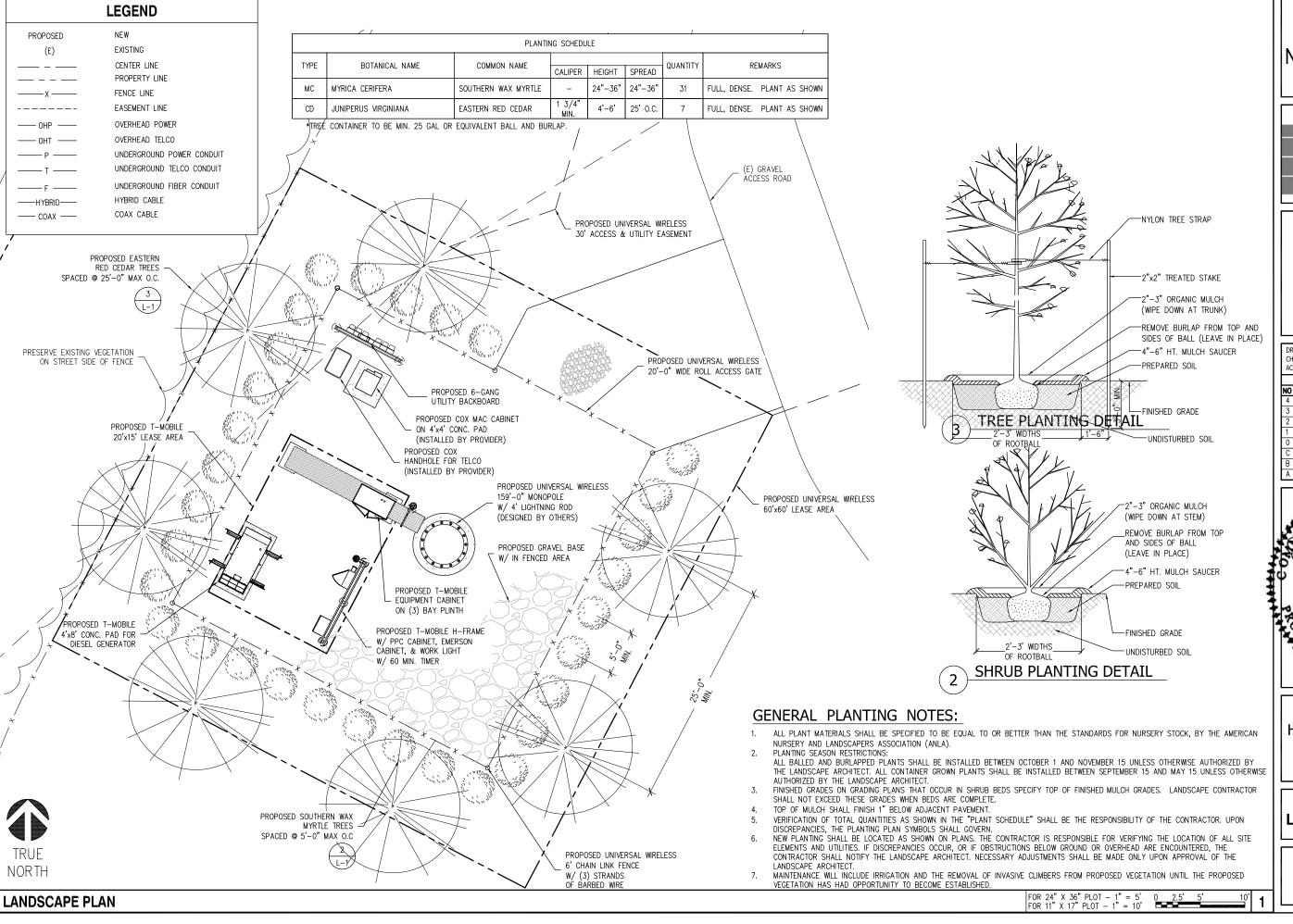


VA70330D **H&S DEVELOPMENT GROUP** 700 GREENLAWN AVE

> CITY OF HAMPTON SHEET TITLE

HAMPTON, VA 23661

GENERAL NOTES



T - Mobile - NORTHEAST LLC

324 MADISON MEWS NORFOLK, VA 23510

PROJECT MANAGEMENT FIRM

To we r s

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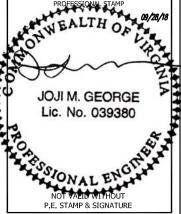


9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893

PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGLCOM

| DRAWN BY: R. MADLOCK | CHECKED BY: J. GEORGE | ACGI JOB #: 18-4735, 18-1827, & 18-3917 | REVISIONS | NO | DATE | DESCRIPTION | B | 4 | 08/10/18 | SITE | RELOCATED | RN

| NO | DATE | DESCRIPTION | BY | 4 | 08/10/18 | SITE RELOCATED | RM | 3 | 07/09/18 | BP | COMMENTS | RM | 2 | 07/02/18 | TOWER | HEIGHT | RM | 1 | 06/28/18 | BP | COMMENTS | RM | 0 | 05/22/18 | FINAL | CD | RM | C | 05/08/18 | REVISED | PER | REDLINES | RM | B | 04/06/18 | REVISED | PER | REDLINES | RM | A | 03/28/18 | ISSUED | FOR | REVIEW | RM |



VA70330D H&S DEVELOPMENT GROUP

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SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

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