

prior to starting work at (954) 828-5649

PERMIT NO. CC13-01

District 4

Applicant Name and Job Number Crown Castle SFL 60_1 Job Address and Location 1960 SE 10th Avenue Description of Work Installing cabinet and utility pole within right-of-way. Anticipated start and end dates of work 11/4/13 - 45 days This permit application is for an exemption from the requirement to install communications service facilities X below grade, in accordance with Section 25-100.1.B.3 of the City of Fort Lauderdale Code of Ordinances (Code). A letter by a qualified expert(s) is attached. Crown Castle is requesting the following waivers (check all applicable subsections and attach supporting documentation): □ C.6 ☐ C.1 ☐ C.2 □ C.4 □C.7 ☐ C.12 □ C.3 (Size) (Height) (Front Yard) (Corner Yard) (Separation) (Exist, Facility) (Collector) With the exception of any waivers that may be checked above, the proposed at grade facilities conform to the X requirements in Section 25-100.1 of the Code X Notice of the pending application has been provided to all property owners abutting public rights-of-way within one hundred fifty (150) feet of the proposed site and to the relevant homeowner association, in accordance with Section 25-100.1.E.5 of the Code. The proposed site will be maintained by Crown Castle in accordance with the approved Graffiti Mitigation Plan X dated 04/04/2013 , which is on file with the City Engineer A landscaping maintenance commitment letter from the adjacent property owner and relevant home owner association is attached to this application. Crown Castle shall be responsible for maintaining landscaping The proposed at grade facilities depicted on the attached plans are completely located in the public rights-of-X way. As an authorized representative of Crown Castle, I certify under oath that the forgoing statements are true and correct. **Armando Hernandez** Printed Name of Authorized Crown Castle Agent Sworn to and subscribed before me this My Commission Expires Notary Public, State of Florida SHANE HAFNER MY COMMISSION # EE831765 EXPIRES: September 03, 2016 (Do not write below this line) , Subject to the following conditions: Conceptual approval date by 1) A detailed visual mitigation plan is required Final Permit approval date by Final Inspection date by **Notify Engineering Permits Division 24 hours

REVIEW CHECKLIST FOR CABINETS IN RIGHTS-OF-WAY

P	erm	it	No.	CC13 -	01

Application Package complete – 3 sets	(JJ)
---------------------------------------	------

Verified addresses of property owners and HOA to which notice was provided Random audit of package to property owners Feasibility letter, site plan, landscaping plan, aerial photo, 5 pictures Easement and property information provided

X	CC memo provided to Commission (JJ)
П	15-Day Call up Memo to Commission (JJ)

Criteria for cabinets in Rights-of-Way

	Plan Review Checklist	Comments
	Evaluation and approval of any waivers identified on application (size, height, corner yard, > 3 cabinets per block, modification of existing cabinet, conflict with future sidewalk)	
X	Sum of H + W + L not greater than 124" and H not greater than 5'-8"	
X	Cabinet not in front yard	
	Proposed landscaping is in accordance with plan on file with City	
	If landscaping is to be maintained by Property Owner, Agreement has been provided	
	Landscaping plan has been checked by Dave Genarro	
X	New cabinet is at least 2 feet from other cabinets, poles, etc.	
X	Cabinet not in sight triangle (sight triangle may be reduced to 10 feet)	
X	ADA requirements met	
X	Roadside recovery setback met (per Florida Green Book)	
X	Cabinet/landscaping is at least one foot from sidewalk	
X	Cabinet would not conflict with future sidewalk	
X	Field face cabinet to R/W	
	Field Inspection Checklist	Comments
	Type and location of topographic features shown on permit plan are consistent with field conditions	
	H + W + L not greater than 124" and H not greater than 5'-8"	
	There are no conflicts with existing utility lines and new cabinet location would not hinder access to utilities or be within excavation trench over the pipe	
	New cabinet is at least 2 feet from other cabinets, poles, etc.	
	New cabinet is not in sight triangle – visual check performed in field	
	ADA requirements met – minimum clearances/slopes measured	
	Roadside recovery setback measured	
	Cabinet/landscaping (measured) is at least one foot from sidewalk	
	Landscaping is per permit plans and effectively screens cabinet	
	Cabinet would not conflict with future sidewalk	
	Dimensions for cabinet location measured	
	Not more than three communication cabinets per block (unless waiver	
	approved)	

TEMPORARY MODIFICATION OF TRAFFIC (MOT) ROUTING FORM

DATE: 9/25/13				
APPLICANT/ADDRESS/PHONE:	PERMIT NO			
Crown Castle NG East, Inc.	(PROVIDED BY CITY AT TIME OF PERMIT APPLICATION)			
8555 NW 64th Street Miami, Fl. 33166	(FROVIDED BY CITY AT TIME OF PERIMIT AFFEICATION)			
813-447-0333	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
	PROJECT NAME/ADDRESS: SFL 60_1			
 This routing form should be complet "PERMIT"). 	ted and submitted as an attachment to the above-referenced permit (hereinafter			
 Obtaining signatures on this routing for only after issuance of the PERMIT, su This form is for MOT's within rights-of rights-of-way under Broward County completed with the required signature 	orm does not constitute any approvals by the City. The MOT may be implemented ubject to satisfaction of all prerequisite conditions. -way under City of Fort Lauderdale's jurisdiction. If the MOT or detour routes affect y jurisdiction, the County's form (available on the City website) should also be seen and attached. If the detours affect FDOT right-of-way, a permit from FDOT must			
	r FDOT R/W, an MOT permit is not required from the City. However, PERMIT is asked to provide two weeks advance notice of any closures or detours to the			
Specific dates and times requested for M	OT implementation:			
Begin	End			
work. 1960 SE 10th Ave. approximately 51 Place new telecommunications cabi to new 40' concrete utility pole. Describe MOT, the number of lanes affer are necessary, if flagmen will be provide any other special considerations related the description of MOT.	Please note if additional sheets have been attached for the description of 8' South of SE 18th Ct Work on shoulder and sidewalk closure. inet and new 40' concrete utility pole. Attach Crown Castle antennated on each street, if metered parking spaces will be displaced, if detours ed, if MOT will be full-time (or times of day the MOT is to be in effect) and to this request. Please note if additional sheets have been attached for 660 attached. Daily work hours 8am - 4pm.			
	certified worksite traffic control technician or traffic control supervisor (as kity of the job), with a copy of current certification.			
there is a conflict with a higher public p	IIT is found to adversely affect public safety and/or public convenience or urpose, the APPLICANT may be required to modify the MOT plan or the or permanently revoked at any time with reasonable notice from the City.			
Control Devices for Streets and Highway	th provisions of the latest edition of <u>Part IV of the Manual of Uniform Trafficus</u> and <u>FDOT Design Standards</u> . Compliance with the requirements of the of the APPLICANT.			
(APPLICANT)	Armando Hernandez / Site Development Manager			
(APPLICANT) /	(Print Name/Title)			
As a consideration for the permission gr indemnify and hold harmless the City of the MOT plan approved under the PERM	anted herein, Armando Hernandez (APPLICANT) agrees to Fort Lauderdale for any damages, claims or injuries that may result from MIT.			
Crown Castle NG East Inc.	By: Phonology			
(Name of Company)	(Company Officer President or Authorized Agent)			

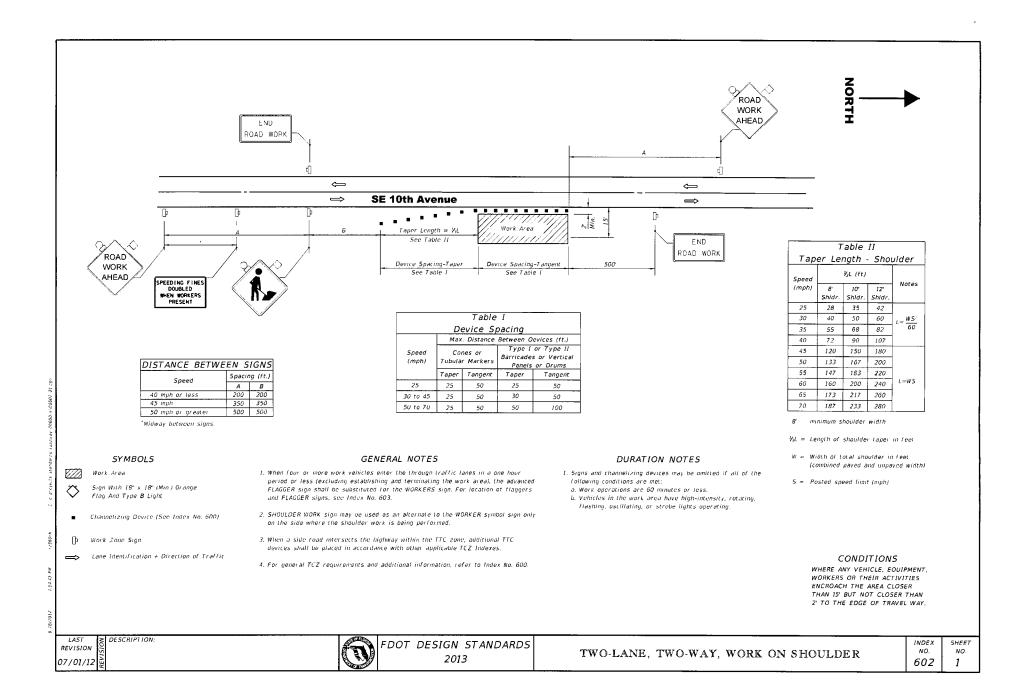
Rev. 6-8-12

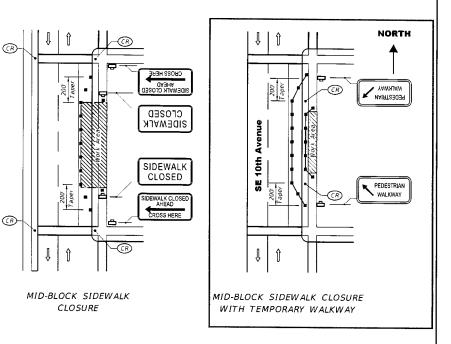
Project Name:	PERMIT NUMBER:
Applicant should collect the requested concurrently via fa	signatures in this section (if required). To expedite processing, signatures may be ax or pdf and provided on separate copies of this page.
(Date)	Police Department (Patrol Secretary Office) (Required only if MOT includes a detour for any direction of travel) 1300 West Broward Boulevard Tel.: (954) 828-5477 (call for appointment)
(Date)	Fire-Rescue Department (Required only if MOT includes a detour for any direction of travel) Bill Findland, Assistant Chief 528 NW 2 nd Street Tel.: (954) 828-4351 (call for appointment); Fax: (954) 828-6843
(Date)	Maj Shakib/ Studies Section (Required only if MOT/detour affects County road or intersection) 2300 W. Commercial Boulevard (Please call (954) 847-2655 for appt. Walk-ins NOT accepted)
After above signatures are colle	cted, Applicant should forward the MOT Plan and this routing form to the person listed below.
(Date)	Transportation and Mobility Heslop Daley, Project Engineer 290 NE 3 rd Avenue Tel: (954) 828-5734 Fax: (954) 828-3734
City Manager's signature to I	be requested by City Staff only (if signature is required)
(Date)	City Manager's Office Lee R. Feldman, ICMA-CM, City Manager 100 N. Andrews Avenue, 7 th Floor

A copy of the PERMIT, this routing form and MOT shall be kept on-site and made available to the City inspector at all times.

This form is for MOT plans associated with private utility projects and private development projects. MOT plans for City Capital Improvement Projects shall be coordinated through Engineering Inspection or the Project Manager. Traffic modifications required for special events shall be arranged through the City's Special Events Coordinator, Jeff Meehan at (954) 828-6705.

Tel.: (954) 828-5013 or Fax: (954) 828-5121





GENERAL NOTES

- 4. For nighttime closures use Type A flashing warming lights on barricades supporting signs and closing sidewalks. Use Type C steady-burn lights on channelizing devices separating the work area from vehicular traffic.
- 5. Pedestrian traffic signal display controlling closed crosswalks shall be covered or deactivated
- 6. Post Mounted Signs located near or adjacent to a sidewalk shall have a 7' minimum clearance from the bottom of sign to the sidewalk.

- 7. When construction activities involve sidewalks on both sides of the street efforts should be made to stage the construction so that both sidewalks are not out of service at the same time
- B. In the event that sidewalks on both sides of the street are closed, pedestrians shall be guided around the construction zone.
- 9. Temporary walkways shall be a minimum of 4' wide with a maximum 0.02 cross slope and a maximum 0.05 running slope between ramps. Temporary walkways less than 5' in width shall provide for a 5' x 5' passing space at intervals not to exceed 200'. Temporary ramps shall meet the requirements for curb ramps specified in Index No. 304. Temporary walkway surfaces and ramps shall be stable, firm, slip resistant, and kept free of any obstructions and hazards such as holes, debris, mud, construction equipment, stored materials, etc.
- 10 Temporary ramps and temporary crosswalk markings shall be removed with reopening of the sidewalk, unless otherwise noted in the plans. All work and materials associated with constructing temporary curb ramps and temporary crosswalk markings, removal and disposal of temporary curb ramps and temporary crusswalk markings, and restoration to original condition shall be paid for as Maintenance of Traffic, Lump Sum.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT WORKERS OR THEIR ACTIVITIES ENCROACH ON THE SIDEWALK FOR A PERIOD OF MORE THAN 60 MINUTES.

≥ DESCRIPTION: LAST REVISION

FDOT DESIGN STANDARDS 2013

PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

INDEX SHEET NO. NO. 660

Exhibit 2 13-1621 Page 6 of 21

Work Area

■ Channelizing Device (See Index No. 600)

Work Zone Sion

Required Locations For Either Temporary CR Required Locations .
Or Permanent Curb Ramps.

⇒ Lane Identification + Direction of Traffic

Pedestrian Longitudinal Channelizing Device

07/01/12



Crown Castle

8555 NW 64th Street

Miami, Florida 33166-2628

MelissaP.Anderson@crowncastle.com

Office 786-899-5911

Mobile 561-310-9261

Fax 305-591-1469

www.crowncastle.com

April 4, 2013

City Engineer
City of Ft. Lauderdale
100 N. Andrews Avenue
Ft. Lauderdale, Florida 33301

Re: Crown Castle NG East Inc. Application for Exemption from Below Grade Requirement

Dear City Engineer:

CC:

In accordance with Section 25-100.1(b) of the city's Communications Rights-of-Way Ordinance (the "Ordinance"), Crown Castle NG East Inc. ("Crown Castle") submits this application for an exemption from the below grade requirement. As is set forth in the attached letter from Wayne Waldron, Director of Implementation for Crown Castle in the Southeastern Region, an exemption is appropriate, as a hardship would result from the imposition of the requirement. Placing the communications service facility described in the attached right-of-way permit application ("Facility") below grade is: 1. technologically infeasible; 2. a below grade facility is not available in the marketplace; and 3. all reasonable alternatives have been exhausted.

Given that Crown Castle has shown by a preponderance of the evidence that a hardship would result if an exemption were not granted, Crown Castle requests that City Engineer grant an exemption from Section 25-100.1(b) of the city's code.

Very Truly Yours,

Melissa P. Anderson

Government Relations Counsel

Southeastern Region

Wayne Waldron, Director of Implementation

ATTACHMENT 1 Certification in Support of Application to City of Ft. Lauderdale for Exemption from Below Grade Requirement

My name is Wayne W. Waldron and my title with Crown Castle is Director of Implementation for the Southeastern Region.

My background and experience in the telecommunications field is as follows: Prior to joining Crown Castle served as Division Manager of 7 state Southwest Division for utility construction (telephone, electric, water, gas, sewer, CATV) firm Henkels and McCoy, Inc. of Blue Bell PA for 10 years, Operations Controller managing Long Island Sound Crossing project for Pirelli Cable Systems of Florham Park NJ for 3 years, Vice President of Liberty General Contracting providing utility construction services in Pottstown PA for 4 years, Vice President of Construction and Engineering for RCN Corporation of Princeton NJ overseeing installation of fiber cabling for telephone, CATV and internet services for 7 years.

My education and training includes but is not limited to: Received Bachelors of Science in Business Administration with a major in Accounting from Temple University in 1980. I have taken continuing education courses in Fiber Optic Technology from Oklahoma State University, Effective Management from Harvard University, Electrical Design from University of Texas Arlington.

Given my education, background and experience, I am an expert regarding communications equipment and, in particular, regarding the communications equipment necessary for Crown Castle to pursue the current planned installation of a DAS network in Ft. Lauderdale. The communications service facility (Facility) that is described in the attached right-of-way permit application is necessary for the current DAS network. The Facility will house active electronics. Based upon my expertise, I hereby certify that placing the Facility below grade is technologically infeasible, that a below grade facility is not available in the marketplace and that all reasonable alternatives have been exhausted. Accordingly, Crown Castle requests an exemption from the below grade requirement contained in Section 25-100.1(b) of the city's code.

Wayne W. Waldron

Director of Implementation

Southeastern Region

Crown Castle NG East Inc. Graffiti Mitigation Plan

Pursuant to the City of Ft. Lauderdale's Communications Service Facility Right-of-Way Ordinance No. C-07-108, this Graffiti Mitigation Plan describes how Crown Castle NG East Inc. ("Crown Castle") will maintain communications service facilities governed by the Ordinance free from graffiti, including inspecting them no less frequently than every 90 days and removing graffiti within 7 working days from receipt of notice thereof from the City.

Crown Castle removes graffiti found on its equipment cabinets, including when graffiti is found by Crown Castle personnel or brought to Crown Castle's attention by other parties. Crown Castle removes graffiti with either mineral spirits or paint thinner. A rag is soaked with the solvent and rubbed lightly over graffiti. The solvents will remove spray paint and permanent marker, which are the most difficult forms of graffiti to remove. In cases where the graffiti cannot be cleaned or where Crown Castle determines that paint is the better option, matching paint is applied. The Crown Castle contact person for graffiti issues is Armando Hernandez. His contact information is: office: 786 899-5914 Cell: 813 447-0333.



Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Harbordale Civic Association, Inc.

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 1960 SE 10th Avenue Ft. Luaderdale Fl., 33316

Crown Castle NG East Inc. is sending this notice to you as provided in City Ordinance No. C-07-108, which requires that notice of right-of-way permit application for the communications facility be provided to certain parties in the vicinity of the right-of-way.

A drawing showing the proposed placement and location is attached. The permit application may be reviewed at the City engineer's Office located at City Hall 100 N. Andrews Avenue.

The communications facility will enable Crown Castle NG East Inc. to offer new and enhanced communications services to customers in your neighborhood.

If you have any questions, please feel free to contact me at (305) 728-0154

Sincerely,

Armando Hernandez

Site Development Manager

Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Harbour Park Warehouse, LLC

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 1960 SE 10th Avenue Ft. Luaderdale Fl., 33316

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Sincerely,

Armando Hernandez

Site Development Manager

Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Karnak-South Inc.

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Sincerely,

Armando Hernandez

Site Development Manager

Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Mariani LLC,

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If you have any questions, please feel free to contact me at (305) 728-0154

Sincerely,

Armando Hernandez

Site Development Manager



CLIENT :

CLIENT SITE ID#:

CROWN CASTLE SFL60_1

ADDRESS:

1960 SE 10TH AVENUE FORT LAUDERDALE, FL 33316

SITE TYPE:

Rio Vista 4

Plaza

16th St

16th Ct

h St

0

(5)

(1A)

(5)

SE 24th St

SE 16th St

Causeway

Shoppes

SE 17th St

SE 18th St

SE 20th St

SE 21st St

Tennis Court

(1A)

SE 22nd St

SE 24th St

NEW CONCRETE POLE

SE 16th Ct

SE 17th St

Embassy Suites Fort Lauderdale

Publix 12

SE 24th St

SE 21st St

ROPFRTY	INFORMATION	

SITE COORDINATES:

PROPERTY OWNER: ADDRESS:

Renaissance

SF 18th St

Charlotte Convention in

Shoreside

SE 22nd St

(1A)

Food & m

SE 20th St

SE 24th St

SE 25th St SE 26th St

SE 18th Ct

Fort Lauderdale Cruise Port

SE 16th St

Southport

SE 17th St

SE 22nd St

SE 24th St

SE 26th St

A Shopping Center

JURISDICTION:

26.096838* -80.132525*

MIAMI, FL 33166

CITY OF FORT LAUDERDALE

PROJECT TEAM

PROJECT MANAGEMENT FIRM: CROWN CASTLE ADDRESS: 8555 NW 64TH STREET

ADDRESS: CONTACT:

FLORIDA COA#

PHONE:

AW SOLUTIONS, INC. 300 CROWN OAK CENTRE DR. LONGWOOD, FL 32750 SHANE HAFNER 407.260.0231 EXT. 120

SE 19th St

DESIGN CRITERIA;

- 1. FLORIDA BUILDING CODE 2010 AND ASCE 7-10. WIND LOAD PER ASCE 7-10.
- A. ULTIMATE WIND SPEED: 170 MPH. BUILDING RISK CATEGORY: II. WIND EXPOSURE: C.
- DEAD LOAD:

Hilton Fort

Lauderdale b

SE 17th St (IA)

Lauderdale 17th Street .

Convention Center

A. EQUIPMENT WEIGHT PER MANUFACTURER DATA.

3. SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

DRAWING SH **INDEX**

HEET	SHEET DESCRIPTION	RE
T1	TITLE SHEET	2
C1	SITE PLAN	2
C2	ELEVATION	2
C3	DETAILS	2
C4	DETAILS	2
SP1	SPECIFICATIONS	2
SP2	SPECIFICATIONS	2

1/1	CROWN*
W I	INTERNATIONAL 🛨

APPROVALS

Underwriters

PROJECT MANAGER:	
CARRIER:	
UTILITY:	

DATE:



300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 FAX: 407.260.0749 FL COA#:

	DRA	WN BY:	EW	CHECKED B	Y: JD
					1
TO STATE	2	00/11/13	DEVISED	POLE TYPE/I	NOLLY
1000	1	05/09/13		PER COMMEN	
	0	01/11/13			113
110	REV	DATE	DESCRIPT		
			EMMANUEL FL. P.E. of Lan For All N.O.G. A. LICENSE MINISTREPURILLI LONS. INC. DISCUSSION.	PODUM PROFESSION TO PROFESSION OF THE CO.	S. W.
	SITE	:	SFL6	0_1	7-1
	ADI	DRESS:	1960 SE FORT LAU	10TH AVENU JDERDALE, FL	JE _ 33316
	SHE	EET TITLE:			
		1	TITLE :	SHEET	

SE 26th St **DRIVING** DIRECTIONS

Fort Lauderdale

FROM CROWN CASTLE OFFICE IN MIAMI, HEAD WEST ON NORTHWEST 64TH STREET. TURN RIGHT ONTO NORTHWEST 87TH AVENUE. TURN RIGHT ONTO NORTH WEST 74TH STREET, TURN LEFT TO MERGE ONTO FLORIDA-826 NORTH, TAKE THE US-441 SOUTH EXIT TOWARD I-95 NORTH, MERGE ONTO US-441 NORTH/FL-7 NORTH. KEEP LEFT AT THE FORK AND MERGE ONTO I-95 NORTH, TAKE EXIT 24 TO MERGE ONTO I-595 EAST TOWARD PORT EVERGLADES/FORT LAUDERDALE/HOLLYWOOD/INTERNATIONAL AIRPORT, TAKE EXIT 12B TO MERGE ONTO NORTH SR-A1A NORTH/U.S.1 NORTH/SOUTH FEDERAL HIGHWAY, TURN RIGHT ONTO SOUTH EAST 17TH STREET, TURN RIGHT ONTO EISENHOWER BLVD (RESTRICTED USAGE ROADS) TURN RIGHT ONTO SOUTH EAST 18TH STREET, TURNS LEFT AND BECOMES SOUTH EAST 10TH AVENUE, DESTINATION WILL BE ON THE LEFT.

GENERAL VICINITY MAP



UNDERGROUND SERVICE ALERT CALL TOLL FREE -800-432-4770 48 HOURS BEFORE

SE 20th St

SE 20th St SPECIFIC LOCATION MAP

NODE 60 1

SE

10th

SHEET NUMBER:

T1

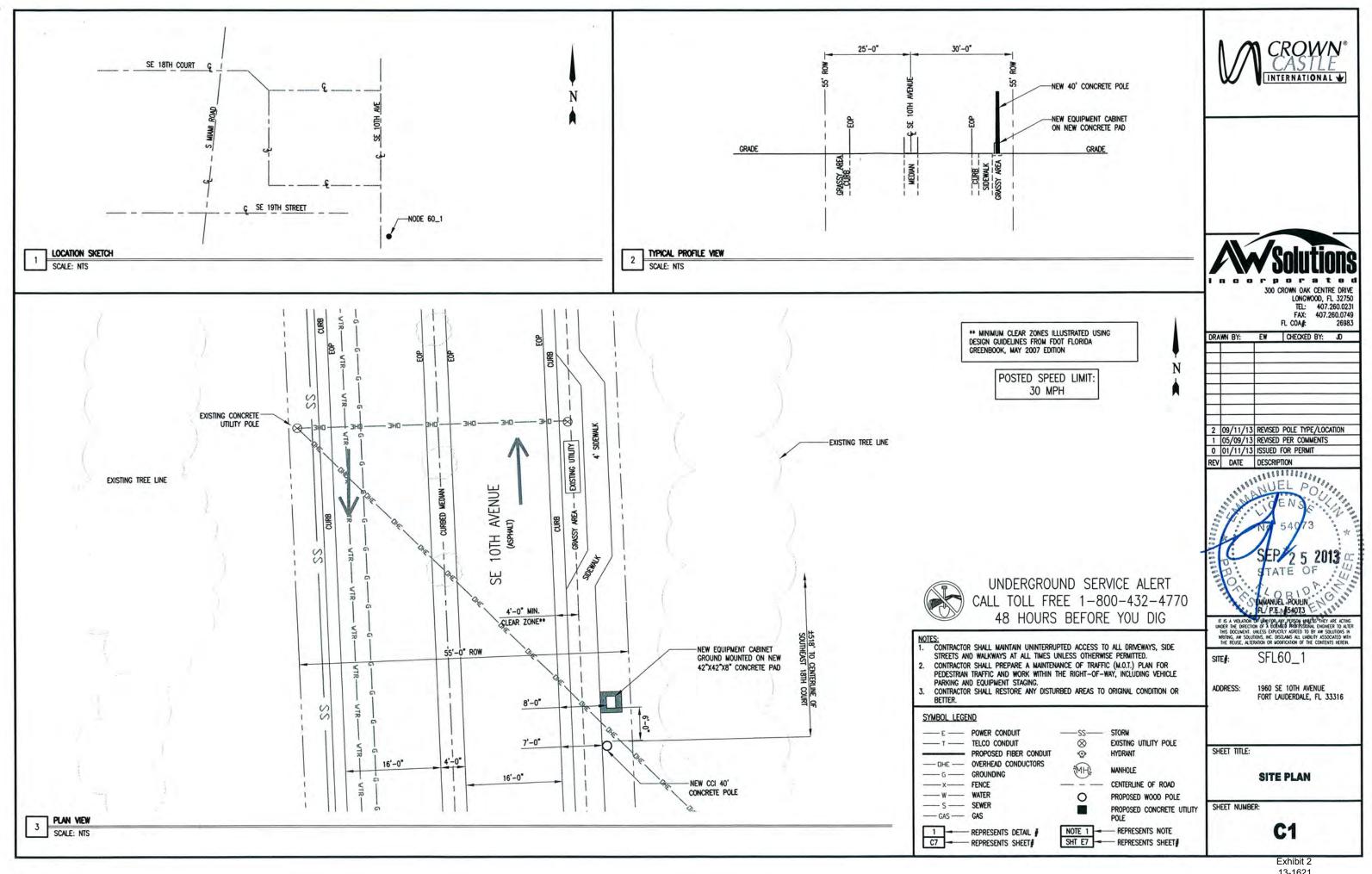
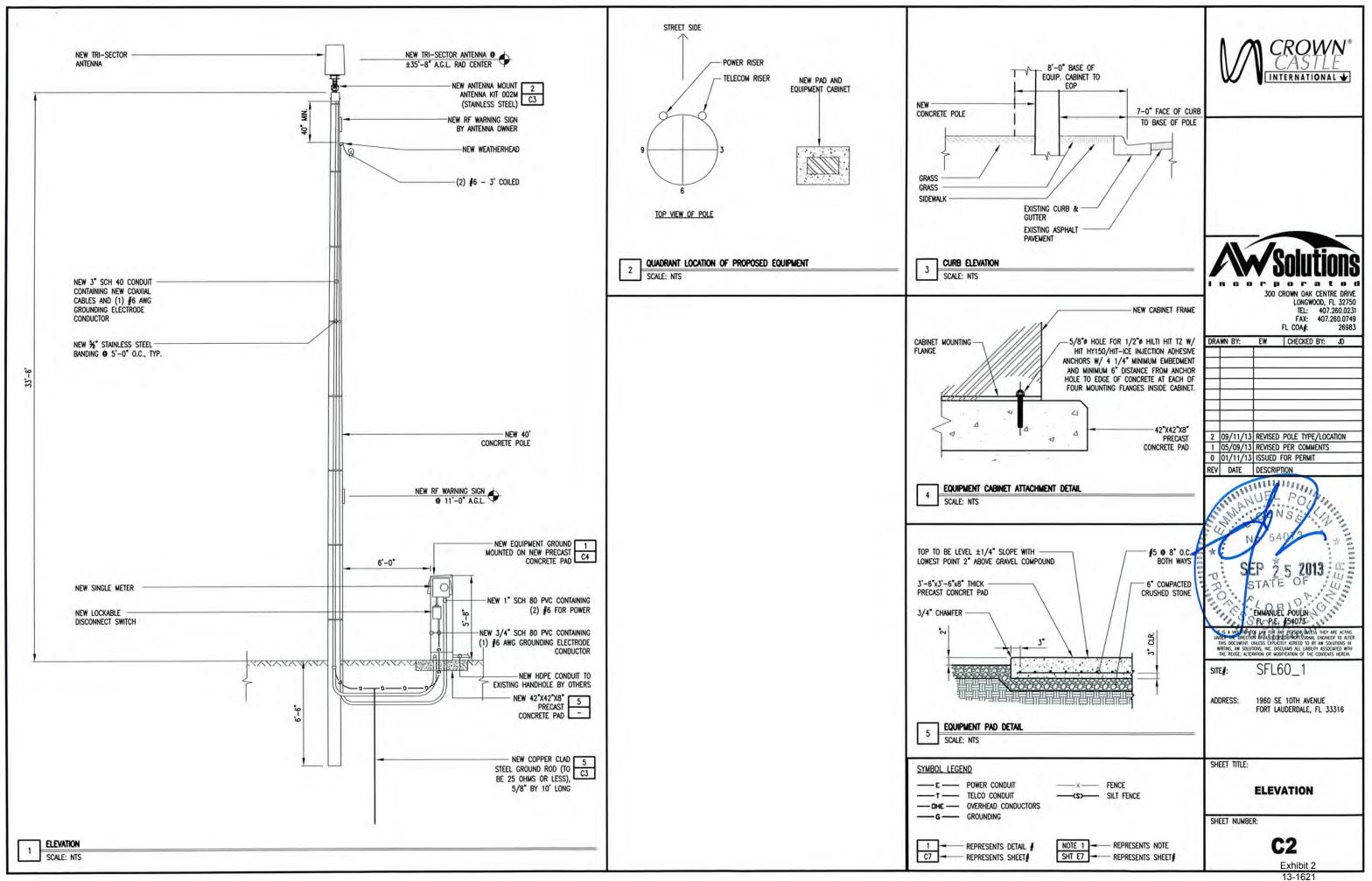
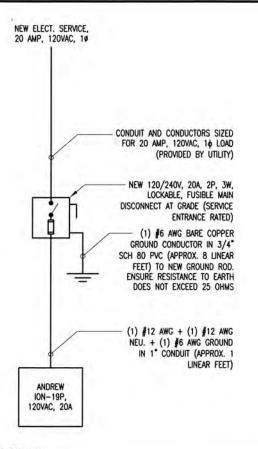


Exhibit 2 13-1621 Page 16 of 21



Page 17 of 21



RISER DIAGRAM SCALE: NTS

- SHORT CIRCUIT CURRENT RATING OF FUSIBLE MAIN DISCONNECT: 100kA.
- PER FLORIDA BUILDING CODE 2010: FEEDER CONDUCTORS ARE SIZED FOR A
- MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD OF 20A.
 PER FLORIDA BUILDING CODE 2010: BRANCH CIRCUIT CONDUCTORS ARE SIZED

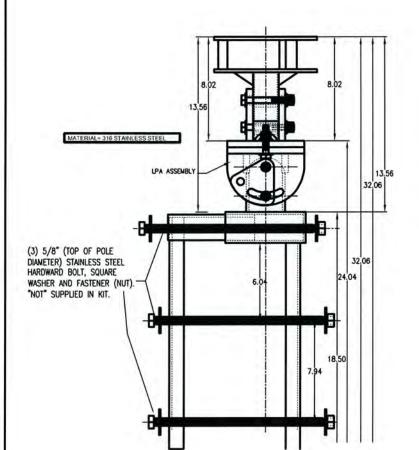
FINISHED GRADE, STONE, ASPHALT,

SCALE: NTS

CONCRETE PAYING OR SOD. MATCH SLOPE

AND THICKNESS OF EXISTING SURFACE

- FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD. HOWEVER, THIS DESIGN CONTAINS NO BRANCH CIRCUITS.
- ALL CONDUCTORS ARE TO BE COPPER WIRE WITH INSULATION TYPE XHHW.
 ALL ABOVE GRADE CONDUIT IS TO BE UV RESISTANT SCHEDULE 80 PVC. ALL
 BELOW GRADE CONDUIT IS TO BE SCHEDULE 40 PVC.



RESTORE SURFACE TO MATCH

ORIGINAL CONDITION

COMPACTED BACKFILL

- 6" WARNING TAPE

(REFER TO NOTE 4)

(SUITABLE ON SITE MATERIAL)

TELCO CONDUIT WHERE APPLICABLE

UNDISTURBED

ANTENNA MOUNTING KIT (002M) SCALE: NTS

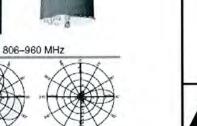
NA PART HAR NEW MEN AND SCALA DIVISION

Kathrein's dual band antennas are ready for 3G applications, covering all existing wireless bands as well as all spectrum under consideration for future systems, AMPS, PCS and 3G/UMTS.

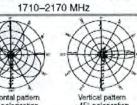
- · Wide band operation.
- · Exceptional intermodulation characteristics.
- . High strength fiberglass radome.
- · Internal diplexers allow the +45° polarization (upper and lower bands) to be combined on one connector and the -45° polarization (upper and lower bands) to be combined on a second connector for each antenna.

Frequency range	806-960 MHz 1710-2170 MHz		
VSWR	<1.5:1		
Impedance	50 ohms		
Intermodulation (2x20w)	IM3; <-150 dBc		
Polarization	+45° upper and lower band -45° upper and lower band		
Connector	6 x 7-16 DIN female		
Isolation intrasystem intersystem	>30 dB >40 dB (806-960 // 1710-2170 MHz)		
Radome color	Brown, gray or dark gray (custom coli available at additional cost)		
Weight	50 lb (22.7 kg)		
Height	24 inches (609 mm)		
Radome diameter	16 inches (407 mm)		
Equivalent flat plate area	1.6 ft ² (0.148 m ²)		
Wind survival rating*	100 mph (160 kph)		
Shipping dimensions	32 x 20 x 19 inches (813 x 508 x 483 mm)		
Shipping weight	52 lb (23.6 kg)		
Mounting	Designed to be mounted on top of a utility pole using a custom mounting bracker supplied by the customer.		





Horizontal pattern Vertical pattern +45"-polarization #45"-polarization



±45"-polarization

Specifications:	806-866 MHz	824-894 MHz	880-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Gain	11.1 dBi	11.4 dBi	11.8 dBi	12.5 dBi	13.3 dBi	13.6 dBi
Front-to-back ratio (180° ± 30°)	>23 dB (co-polar) >20 dB (total power)	>23 dB (co-polar) >20 dB (total power)	>25 dB (co-polar) >22 dB (total power)			
Maximum input power	250 watts (at 50°C)	250 watts (at 50°C)	250 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)	200 watts (at 50°C)
+45° and -45° polarization horizontal beamwidth	67° (half-power)	66° (half-power)	64* (half-power)	66" (half-power)	60° (half-power)	60° (half-power)
+45° and -45° polarization vertical beamwidth	34" (half-power)	33° (half-power)	30° (half-power)	20° (half-power)	181 (half-power)	17.5" (half-power)
Cross polar ratio Main direction 0° Sector ±60°	25 d8 (typical) >10 d8	25 dB (typical) >10 dB	25 dB (typical) >10 dB	16 dB (typical) ⇒10 dB	18 dB (typical) >10 dB	20 dB (typical) >10 dB

ANTENNA SPECIFICATIONS 3 SCALE: NTS

NEW TRI-SECTOR ANTENNA SITE#: (1) #6 AWG GROUND IN ADDRESS: 3/4" CONDUIT GRADE

NEW LIGHTNING ARRESTOR

ANTENNA GROUNDING SCHEMATIC

SCALE: NTS

SEP 2 5 2013 TATE OF

300 CROWN OAK CENTRE DRIVE

FL COA#:

DRAWN BY: EW CHECKED BY: JO

2 09/11/13 REVISED POLE TYPE/LOCATION 1 05/09/13 REVISED PER COMMENTS

PORTET DONE

0 01/11/13 ISSUED FOR PERMIT REV DATE DESCRIPTION

LONGWOOD, FL 32750

TEL: 407.260.0231

FAX: 407.260.0749

26983

EMMANUEL POULIN IT IS A VOLATION OF UMPTER, ANY, PERSON WAITS THEY ARE ALTING UNDER THE DIRECTION OF A BETWEEN PAPE TSSONUL ENGINEER TO ALTER HIS DOCUMENT, UNLESS EMPICITY ASSETS TO BY ANY SOLUTIONS IN WINNING, AN SOLUTIONS, INC. DISCLAMS ALL LIBBUTY ASSOCIATED WITH HE REISE, ALTERNATION OR MODERCHAIN OF THE CONTENTS HEREN.

SFL60_1

1960 SE 10TH AVENUE

FORT LAUDERDALE, FL 33316

SHEET TITLE:

DETAILS

SHEET NUMBER:

C3

GRADE EXOTHERMIC WELD (2) #6 AWG GROUNDING GROUND ROD (COPPERCLAD STEEL), 5/8" X 10'-0"

GROUND ROD DETAIL

SCALE: NTS

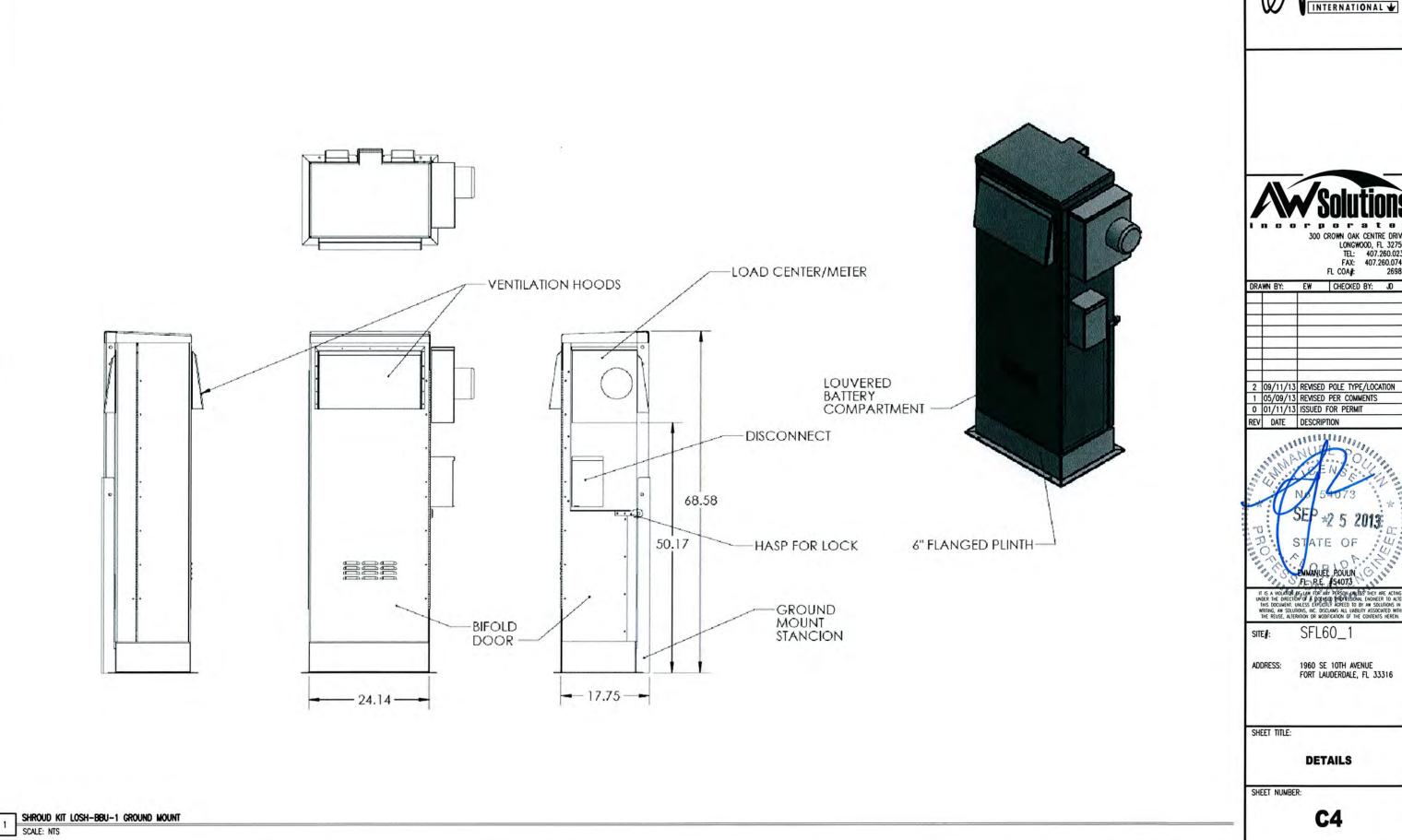
GROUND ROD TO BE DRIVEN 10' VERTICALLY.

PROVIDE SCHEDULE 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW. PROVIDE SCHEDULE 80 PVC CONDUIT AND ELBOWS AT STUB UP LOCATIONS (i.e. SERVICE POLE, BTS EQUIPMENT, ETC.). INSTALL UTILITY PULLBOXES PER NEC. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS. CONDUIT/TUBING CONTAINING FIBER OPTIC CABLING TO BE FILLED WITH GEL TO PREVENT WATER PENETRATION, COMMONLY REFERRED TO AS "ICKY PICK."

NEW UNDERGROUND CONDUIT(S) TRENCHING DETAIL (IF APPLICABLE, REFER TO SITE PLAN)

Exhibit 2

13-1621 Page 18 of 21

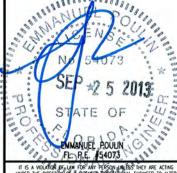






300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA∦: 26983

2	09/11/13	REVISED POLE TYPE/LOCATION
1	05/09/13	REVISED PER COMMENTS
0	01/11/13	ISSUED FOR PERMIT
00/	DATE	DECODIDITION



SFL60_1

1960 SE 10TH AVENUE FORT LAUDERDALE, FL 33316

DETAILS

SHEET NUMBER:

C4

Exhibit 2

- CONTRACT OF ORDERS
 CONTRACT OF ORDERS
 THE INTERTION OF THE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLUDE ALL LABOR AND
 MATERIALS REASONABLY NECESSARY, WHETHER OR NOT SPECIFICALLY INDICATED, FOR THE PROPER EXECUTION AND
 COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT. THE INTERT OF THIS DOCUMENT IS NOT TO DESIGNATE
 THE MEANS AND METHODS OF PROCEDURE OF THE WORK. THE CONTRACTOR SHALL SUPERVISE AND CONDENSATE ALL WORK, USING HIS PROFESSIONAL NOTWINGES AND SIGLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS,
 METHODS, TECHNIQUES, PROCEDURES, SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES, STANDARDS

PPLEARINS: FBC — FLORIDA BUILDING CODE 2010 ASC — AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS IEEE — INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

NEC - NATIONAL FLECTRICAL CODE

NEC - PATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION UL - UNDERWITERS LABORATORIES NESPC - NATIONAL STANDARD PLUMBING CODE INC - INTERNATIONAL MECHANICAL CODE

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION
OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

ANSI/TIA - TELECOMMUNICATIONS INDUSTRY ASSOCIATION - 222-G STANDARD ALL COVERNING STATE, COUNTY AND LOCAL CODES AND ORDINANCES
 THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE

The engineering dramings show principal areas where work must be accompushed under this contract. Incidental work may also be necessary in areas not shown on the discreting drawngs due to changes affecting edisting electrical or other systems. Such incidental work is also a part of this contract, inspect those areas and ascertain what is needed to do that work in accordance with the contract

MSPECT THOSE MEDS AND ASCERTAIN WHAT IS NEEDED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. DO NOT SCALE DRAWNES, ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK HOWEVER, NO CHANGE THAT ALIER THE CHARACTER INTENT OF THE DESIGN WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT A CHANGE ORDER. CONFEAL CINI, STRUCTURAL LECTRICAL AND ANTENNA DRAWNES ARE INTERRELATED. IN PERFORMANCE OF THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWNINGS, ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE GENERAL

CONTRACTOR.

THE GENERAL NOTES CONTAINED HEREIN ARE PART OF THE PLANS AND SPECIFICATIONS, AND ARE TO BE COMPLED WITH IN ALL RESPECTS. THE MOST RESTRICTIVE NOTES SPECIFIED ARE TO TAKE PRECEDENCE. CERTAIN SECTIONS OF THE CENERAL NOTES MAY NOT APPLY TO EVERY SITE. THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE CENERAL NOTES IN ALL RESPECTS.

ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE

NOT SPECIFICALLY SHOWN OTHERWISE.

NOT SPECIFICALLY SHOWN OTHERWISE.

REPRESENTATION OF TRUE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEAVING OF THE TRUE NORTH AT THE SITE THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR'S MARKING AT THE SITE FOR THE ESTABLISHMENT OF THE TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VAROUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORBITATION AS DEPICTED ON THE CML SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE PROMISERS.

THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKINEN WHO ARE THOROUGHLY TRAINED AND

THE CONTRACTOR STALL USE ADEQUATE NUMBERS OF STOLLED WORKIEN 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.

THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB STIE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL MORRING HOURS. THE CONTRACTOR TRATTERS FROM ANY AND LICENTED AND STATE OF THE AREASES TO INDEMNIFY AND HOLD THE DESIGN PROMER HARMLESS FROM ANY AND LICENTED AND STATE OF THE PERFORMANCE OF WORK ON THIS PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS SUCH AS OSHA COMPLIANCE DURING THE PROGRESS OF THE WORK. THE ENGINEER WILL NOT ADMSE NOR PROVIDE DIRECTION AS TO SAFETY PRECALITIONS AND PROGRAMS THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE SITE UNTIL COMPLETION OF THE

CONSTRUCTION.

It is the contractor's responsibility to examine all plan sheets and specifications and coordinate his work with the work of all other contractors to ensure that work progression is not interrupted.

The contractor is instructed to cooperate with any and all other contractors performing work on this job site during the structure of the contract schedule or other work performed in the workty of the construction area.

The contractor shall exight a construction schedule to the property owner well in advance of the starting date of the work, the owner shall also be notified of a change in the construction schedule. The contractor shall compay with all recomple permits.

Becal contractor is shall compay with all recomple permits.

Becal contractor is responsible for providing the business permit at the local jurisdiction as the contractor shall exponsible for permits.

Becal contractor in this jurisdiction. The contractor shall be responsible for detaining, and incurring the contractor is responsible for permits, the disciplination of the contractor is responsible for permits.

The contractor is responsible for providing the business permit at the local jurisdiction department to schedule the required between the permits.

The contractor is responsible for providing and business permit and the contractor shall be responsible for detaining, and incurring the cost of all required hispections. A minimum of 48 hours of hotice should be given to authorities and extension in the contractor schedule will not be granted due to delay caused by inspections.

EXTENSION IN THE CONTRACT SOFTENDEDUCE WILL NOT BE GRAVITED DUE TO DELAY CAUSED BY INSPECTIONS.

EACH CONTRACTOR IS RESPONSIBLE FOR APPOLICTION AND PXYMENT OF CONTRACTOR LEGENESS, BOINDS AND
INSURANCES. DOCUMENTATION SHALL BE PROVIDED TO THE OWNER PROOF TO THE WORK.

A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENT, AND BY LAW
SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE ALL
CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO
MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BULTS CHANGES, REVISIONS,

ADDENDA, OR CHANGES ORDERS.
THE CONTRACTOR IS TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWINGS WITH ACTUAL DIMENSIONS,

THE CONTRACTOR S TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWNINGS WITH ACTUAL DIMENSIONS, ROUTING AND CIRCUITS UPON COMPLETION OF CONSTRUCTION OF THE CONTRACTOR IS TO CONTRACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS TO DEGREE SERVICE, GERMAN AND PAY ALL FEES ASSOCIATED WITH CONSTRUCTION, SCHEDULE INSTALLATION OF SERVICE, COORDINATE CONDUIT RUA/TERMINATION POWER AND OBTAIN ANY FIELD MATERIALS THAT MAY BE SUPPUED BY THE UTILITY COMPANIES AND INSTALLED BY THE CONTRACTORS.

THE CONTRACTOR SHALL BE RESPONDIBLE FOR ALL TEMPORARY BRAZING, SHORING, TIES, FORM MORE AND THE DEPOSTSTRUCK OF ALL MORDER COMPANIES AND CHARLES OF ALL TEMPORARY BRAZING, SHORING, TIES, FORM MORE AND THE

PROTECTION OF ALL WORK DURING CONSTRUCTION TO AVOID DAMAGE, COLLAPSE, DISTORTION, MISALIGNMENT AND ALTERATION OF ROOFING WARRANTIES.

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE

. THE CONTRACTOR IS RESPONSIBLE TO PROMOE TEMPORARY POWER, WATER AND TOLLET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOAPENING AGENCY.

THE CONTRACTOR SHALL MONITOR ALL EXISTING STRUCTURES DURING CONSTRUCTION.

THE CONTRACTOR SHALL COROUNTE THE FINAL DIMENSIONS OF ANY TYPE OF BEAM LAYOUT WITH THE FOOTPRINT OF THE NEW EQUIPMENT BEFORE ORDERING MAY MATERIALS.

ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITIONS PRIOR TO INSTALLATIONS, AND SHALL BE OF

I. ALL MATERALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITIONS PROOR TO INSTALLATIONS, AND SHALL BE OF THE BEST GROE AND OF THE SAME MAINFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT.
I. ALL MATERALS MUST BE STORED IN A LEVEL AND DRY LOCATION AND IN A MANNER THAT WILL NOT OBSTRUCT THE FLOW OF OTHER WORK RELATED OR NOT TO THIS CONTRACT. ANY EQUIPMENT OR MATERAL STORAGE MUST MEET ALL RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTION SHALL INSPECT THOROLOGILLY ALL MATERALS AND EQUIPMENT PROOF TO FINAL INSTALLED PER THE MANUFACTURERS' INSTALLOTIONS.
DICEPT FOR WARNING SIGNS SUCH AS "NO TRESPASSING" AND SIGNS THAT STATE OWNERSHIP AND EMERGENCY TELEPHONE MUMBERS, NO SON SHALL BE LOCATED ON THE TOWER.
2. ALL EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB.

32. ALL EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB.

12. EXISTING CONDITIONS AND STRUCTURES

13. BEFORE BEGINNING MORK AT THE SITE, THE CONTRACTOR SHALL INSPECT THE EXISTING COMPOUND OR BUILDING AND DETERMINE THE EXISTING FOR FORE SPECIALTIES, EQUIPMENT AND OTHER TELLS WHICH MUST BE REJOVED AND REINSTALLED IN ORDER TO PEPFORM THE WORK UNDER THIS CONTRACT. THE CONTRACTOR MUST VERBY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK, NO EXITE A CHARGE OR COMPRISATION SHALL BE ALLOWED DUE TO OFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DEARWING. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL MORK SHALL BE PEFFORMED IN A WORKMANLIKE MANNER IN ACCIDENCE MAD A CORDANICE WITH A STATEMENT OF THE PROCEEDING WITH THE WORK. ALL MORK SHALL BE PEFFORMED IN A WORKMANLIKE MANNER IN ACCIDENCE WITH ACCEPTED CONSTRUCTION PRACTICES

mint accepted construction produces.

By Submitting a Bid for this work, the contractor acknowledges that he has thoroughly reviewed and understood the construction documents, visited the site and is familiar with the conditions encountered the site and is familiar with the conditions encountered.

AN THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL HOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING WHICH SUCH THE CONTRACTOR MIGHT HOT HAVE FULLY INFORMED HIMSELF PROR TO BODDING. HO PLAD OF KNORPACKE OF CONDITIONS THAT DISTS, OR OF DIFFICULTIES THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED WILL BE ACCEPTED AS A REASON FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL THE REQUIREMENTS OF THE CONT

DOCUMENTS.
IT IS UNDESTOOD BY THE OWNER THAT THE CONTRACTOR IN SUBMITTING HIS BID, WARRANTS THAT HE HAS CAREFULLY EXAMINED THE SITE OF THE PROJECT TO ACQUAINT HINSELF WITH THE SURROUNDING PROPERTIES, THE MEANS OF APPROACH TO THE SITE, THE CONDITIONS OF THE ACTUAL 2006 SITE, THE FACULIES FOR DELIVERING, STORM, PLACING,

HANDLING AND THE REMOVAL OF MATERIALS AND EQUIPMENT AND ANY AND ALL DIFFICULTIES THAT MAY BE ENCOUNTERED DURING THE DECUTION OF THE ALL WORK IN ACCORD WITH THE CONTRACT DOCUMENTS. THE LOCATION OF DUSTING UNDERGROUND UTLITIES HAVE NOT BEEN YERRED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR HANDE ALL HOMERGROUND UTLITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND ACCEPTS FILL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED THE CONTRACTOR FAILURE TO LOCATE ALL INDERGROUND UTLITIES BEFORE COMMENCIAN WORK. SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECINCATIONS, THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK MUST MAKE MENTION OF THE SAME TO THE BIOINEER AND OWNER FOR PROPER ADJUSTMENT AND IN NO CASE PROCED WITH THE WORK IN UNCERTIANTLY ON WITH INSPIRICIENT DRAWINGS. THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERSICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MAY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR CONSIDERATION SHALL BE ALLOWED DUE TO INFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION TO RAWHINGS. ANY DISCREDANCE METERS ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION FOR ALLOWED DUE TO INFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION FOR ALLOWED DUE TO INFERENCE BETWEEN ACTUAL DIMENSIONS HOUR SHALL BE SUBMITTED ON THE CONSTRUCTION FOR APPEAR OF FOUND SHALL BE SUBMITTED TO THE ENGINEER AND THE AFFECTED DWINER REPRESENTATIVE FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFE

ALLOWED DUE TO DEFERENCE BETWEEN ACTUAL DIMERSIONS AND DIMERSIONS INDICATED ON THE CONSTRUCTION ORANNES. ANY DISCREPANCY IN DIMERSIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE DERINGER AND THE OWNER REPRESENTAINE. FOR CONSIGERATION BEFORE THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR ITS REPRESENTAINE.

THOSE, PRODUCT NAMES OR MANUFACTURER'S NAMES OR CATALOG NUMBERS AND INDICATIONS OF EXISTING PRODUCT TYPES SHOWN ON THE DRIWINS ARE BELLEVED TO BE ACCURATE. IF THEY ARE DISCONSIBLED TO BE INACCURATE, NOTRY ENGINEERS AND INDICATIONS OF EXISTING PRODUCT TYPES SHOWN ON THE DRIWINS ARE BELLEVED TO BE CACURATE. IF THEY ARE DISCONSIBLED TO BE INACCURATE, NOTRY ENGINEERS AND ENDICATIONS.

PROOF TO STRAINING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMACES WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMACES TO NEW OR DISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE MIMEDIATELY REPARGED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL THE ALL PRECALLIDARY MESTAGES. AND EFFORTS TO PROTECT THE STRUCTURAL INTEGRITY OF EDISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WONLY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY OF EDISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WONLY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY OF EDISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WONLY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY OF EDISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WONLY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY AND STRUCTURES AND EFFORT OF THE STRUCTURAL INTEGRITY OF EDISTING STRUCTURES. WHEN WORK IS PERFORMED IN THE WONLY OF EDISTING STRUCTURE, HE STRUCTURAL INTEGRITY OF EDISTING STRUCTURE, AND THE WORK IS A CONTRACTOR SHALL PROVIDED THE CONTRACTOR SHALL PROVIDED THE CONTRACTOR SHALL PROVIDED THE CONTRACTOR SHALL BE MADE OF THE CONTRACTOR SHALL BE SHALL BE SED

MAINTAIN FLOW FOR ALL EXISTING LITHTIES

MARKININ FLOW FOR EXPLAIR ESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

PROTECT FINISHED SURFACES INCLUDING JAMES AND HEADS OF OPENINGS USED AS PASSAGEWAYS THROUGH WHICH CONTRIBUTED HEADSTORY IN LODGE.

EQUIPMENT AND MATERIALS WILL PASS. PROVIDE PROTECTION FOR EQUIPMENT ROOM SURFACES PROR TO ALLOWING EQUIPMENT OR MATERIALS TO BE MOVED. OVER SUCH SURFACES. 23. MAINTAIN FINISHED SURFACES CLEAN, UNARMED AND SUITABLY PROTECTED UNTIL JOB SITE IS ACCEPTED BY THE

24. IN THE EVENT OF DAMAGE TO AN EXISTING STRUCTURE, THE CONTRACTOR SHALL NOTIFY THE OWNER OR ITS REPRESENTATIVE IMMEDIATELY, AND THEN PROMPTLY MAKE ALL REPLACEMENTS AND REPAIRS TO THE SATISFACTION OF THE OWNER. THE OWNER MAY ELECT TO USE A THIRD PARTY CONTRACTOR TO PERFORM THE REPAIRS AND REPLACED FOR THIS ASSOCIATED WITH THE REPAIRS AND REPLACEMENTS SHALL BE PAID BY THE GENERAL CONTRACTOR SELECTED FOR THIS

JUSTIFY AN EXTENSION IN THE CONTRACT TIME FOR COMPLETION. ISSESSI USE MOST DIRECT ROUTE FROM PUBLIC STREET AS AGREED TO BY COMPOUND OR BUILDING OWNER. FOR ACCESS TO

AN EXISTING BUILDING INTEROR, USE LOADING DOCK AS ARREED TO BY BUILDING OWNER.

COORDINATE WITH SET COMMER CONSTRUCTION SCHEDULE & SITE ACCESS, ENSURE THAT THE OWNER OF PARENT PARCE. IS NOTIFIED IN WITHING OF CONSTRUCTION ACTIVITIES.

A LIST OF WORKERS INVOLVED IN THIS PROJECT SHALL BE PROVIDED TO THE PROPERTY OWNER OR ITS

REPRESENTATIVE.
THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATION, INTERRUPTION OF ANY MECHANICAL AND/OR ELECTRICAL SERVICES, MATERIAL DELIVERIES AND STORICE, STACING AREA, CRANE LIFTS WITH THE OWNER PROOF TO THE STATE OF THE WORK.

CONTRACTOR SHALL COORDINATE WITH AN OWNER REPRESENTATIVE, THE TEMPORARY REMOVAL OF FENCE, LANDSCAPING & ANY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PROR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COORDINATE WORK HOURS & STACING AREAS WITH OWNER.

CONTRACTOR SHALL COORDINATE WORK HOURS & STACING AREAS WITH OWNER.

CONTRACTOR SHALL COORDINATE WORK HOURS & STACING AREAS WITH OWNER.

STE MAINTENANCE
REMOVE STAINING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY. REMOVE HAZARDOUS accumulations of Debris Promptly, at least daily. Confine dust producing operations during cutting drilling, painting and finishing. There should be no over spraying paint in parking area. Vacuum

MEDIATELY AFTER COMPLETION. THERE SHALL NOT BE ANY CREATION OF HOISE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM. UNLESS OTHERWISE

AGREED UPON WITH THE OWNER. MOISE SHOULD BE KEPT TO A MINIMUM THROUGHOUT CONSTRUCTION.

MOISE AND EXISTING BUILDING STRUCTURE VIBRATION DEMERATED BY CONSTRUCTION PROCEDURES, EQUIPMENT, TOOL

AND CPERATIONS ARE TO BE KEPT TO A PRACTICABLE MINIMUM, WHERE USE OF HIGH MOISE LEVEL EQUIPMENT IS

UNAVIOLABLE, AND CAN BE HEARD, CONFINE TO HOURS BEFORE 7 A.M. AND AFTER 6 P.M. MONDAY THROUGH FROMY OR AS AGREED TO BY BUILDING OWNER. THE CONTRACTOR IS TO PROMDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2 ABC.

WITHIN 75FT OF TRIVIEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.

THE CONTRACTOR IS RESPONSIBLE FOR IMMITHINING A NEAT AND ORDERLY STE, YARD AND GROUNDS, REMOVE AND
DISPOSE LEGALLY OFF SITE ALL RUBBISH, WASTE MATERIALS, LITTER, AND ALL FOREIGN SUBSTANCES, REMOVE
PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RIVE GROUNDS TO A SMOOTH EVEN-TEXTURED

SURFACE COMPLETION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOOLS AND FACILITIES, MOCKUPS, TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRS, AND RUBBISH FROM BUILDING OWNERS PROPERTY. PUT SITE IN NEAT, ORDERLY CONDITION, READY FOR USE. LEAVE ROOF AREAS, PIPE SPACES AND OTHER SPACES CLEAN AND FREE FROM DEBRIS ON A DAILY BASIS

FROM DEBRIS ON A DALY BUSS.
THE SITE AND/OR BUILDING SECURITY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ORDER TO PREVENT UNAUTHORIZED PERSONS FROM EMERING THE PREMISES, EXISTING AND NEW EQUIPMENT AND MATERIALS REMAIN THE CONTRACTOR'S RESPONSIBILITY AT ALL TIME UNING CONSTRUCTION.
THE TEMMOT'S INGRESS AND EGRESS OF THE SITE AND/OR BUILDING SHALL BE MAINTAINED THROUGHOUT

THE CONTRACTOR SHALL TAKE ALL MEASURE NECESSARY TO MAINTAIN POLLUTION CONTROL, COMPLY WITH ALL COVERNING REGULATION PERTAINING TO ENVIRONMENTAL PROTECTION, AND PROMPTLY REMOVE ALL DEBRIS AND

ACCUMULATION OF MATERIALS RESULTING FROM THE WORK. ACCOUNTANTOR ON MICRALS RESULTING FROM THE WORK.

THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND LIGHT ARE NOT AVAILABLE AT THIS SITE. WHEN PERSAMENT POWER IS ESTABLISHED, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK ONLY, PROVIDED THAT ELECTROAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE DISCONNECTED AND PROPERTY STORED DURING NON-WOOKING HOURS.

THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE

PROPERTY OWNER OR GOVERNING AGENCY.

- DEMOLITION AND EXISTING STRUCTURAL ALTERATION
DEMOLITION SPECIFICS
GENERAL CONTRACTOR IS TO DEMOUSH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED
FOR DEMOLITION IN THE ARCHITECTURAL, COVIL, ELECTRICAL AND/OR STRUCTURAL DRAWNINGS, INCLUDING BELOW GRADE
FOUNDATION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF

GENERAL CONTRACTOR IS TO EXERCISE UTWOST CARE DURING DEMOUTION AND PROMPTLY INFORM THE ENGINEER OF WY DEVATION TO THE EXISTING STRUCTURE FROM WHAT IS SHOWN IN THESE PLANS PRIOR TO PROCEEDING

mons.

General contractor is solely responsible for the shoring, bracing, promoing lateral support, and for maintaining the interity of the eighting structure during all phases of the demoution and construction and shall provide, if required, signed a sealed shop drawings, by a registered professional engineers for the shoring of all malls, beads, suabs, roof joists, or other elevated structural fields, that are

HAVING THE SUPPORT BELOW NOTED FOR DEMOLITION.

ANY DAMAGE DUE TO DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES, DONE TO ANY EXISTING SURFACE TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.

SHALL BE REPARED TO MAILT EXISTER AT TO ADDITION. SHOULD THE STRUCTURAL ELEMENTS UNLESS

1. DO NOT DRILL OR CUT EXSTING FLOOR JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS
SPECIFICALLY INDICATED. DRILL SIARS WHERE APPROVED. CORE DRILL CIRCULAR OPENINGS THROUGH CONCRETE SLAB.

UNE DRILL FOR RECTANGULAR OPENINGS. MAKE OPENINGS OF PROPER SIZE FOR COMOUT, DUCTS, PIPES AND OTHER
TIEMS PASSING THROUGH OPENINGS. MAKE ALL RICH HOLES OR OPENINGS BE WEATHER TIGHT OR FIRE SARE AS
REQUIRED BY LOCAL BUILDING CODES & ORDINANCES.

2. PREPARE, SUBMIT AND RECEIVE APPROVAL OF SLEEVES AND OPENING DRIVINGS BEFORE LOCATING SLEEVES AND
ADDITIONS OF MAIN PROPERTIES OF SILENCES AND OPENING STRUCTURE. SHOW EACH OPENING AND SLEEVE IN

ppenings in new construction and before drilling existing structure. Show each opening and sleeve in

THE ENTIRE PROJECT.

SEAL WAITER INSTIT AND PROTECT WITH FIRE PROOFING MATERIALS NEW SLEEVES AND OPENINGS THROUGH ROOFS, FLOORS AND INVERTICAL CHASES AS REQUIRED BY CODE AND INDUSTRY STANDARDS. ALL FLOOR AND WALL PENETRATIONS SHALL BE SEALED WITH FIRE RETARDANT COMPOUND MEETING UL CAUSOAS.

THE CONTRACTION SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH

FIRE RATED ASSEMBLIES. WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK

UNDER THIS CONTRACT AND A NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJUSCIFF DESTING SURFACES. SURFACES. ECCEPT IN SPACE WHERE NO MORE UNDER THIS CONTRACT IS REQUIRED, ENCLOSE EXISTING AND NEW CONDUITS, DUCTS, PIPES AND SMILLAR ITEMS IN FURRING WHERE SUCH ITEMS PASS THROUGH FINISHED SPACES WHETHER OR NOT

purering is indicated.

All concrete and masonry penetrations shall be done using rotary action only (no hammering action).

X-rays are to be taken pror to ordling.

Core locations if required shall be chosen so as to avoid cutting any reinforcing bars, firestop floor

OR WALL PENETRATION WITH TWO HOUR RATED SEALANT TO MEET UL CAJSO45. PROVIDE WEAT

ROUP PERLIVATIONS AND/OR REFINISH AS APPLICABLE TO MATCH ADJACENT EXISTING FINISHES THOSE EXISTING SURFACES DAMAGED OR NEW PROPOSED SURFACES DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT, WHERE COMDUTES, DUCTS, PIPES AND SMILAR ITEMS ARE SHOW TO BE INSTALLED IN EXISTING WALLS OR PARTITIONS. NEATLY CHASE THE WALLS OR PARTITIONS. INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS TO MAKE THE NSTALLATION NOT DISCERNIBLE IN THE FINISHED WORK

where a new cutting is not schedule), install new conduits and pipes in every case, and new duct where rossible above edisting colung. Remove dosting colung as necessary. After installation of concavely work, remistall removed colung and patich and epinent to anich adjacent unkemoved colung repair all metal surfaces that have been cut or dimaged by removing any existing rust and applying repair all metal surfaces that have been cut or dimaged by removing any existing rust and applying

3 - STE WORK
3.1 CLEARING AND GRUBBING
1. CLEARING OF TREES AND VECETATION ON THE STE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR

CLEARING OF TREES AND VECETATION ON THE SITE SHOULD BE HELD TO A MINIMUM, ONLY THE TREES NECESSARY FOR THE CONSTRUCTION OF THE FACILITY SHALL BE REMAYED, ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION UNIT SHALL BE REPARED OR REPLACED AT THE CONTRACTOR'S EXPOSE. THE CONTRACTOR SHALL: PROTECT DESTINE TREES, VECETATION, LANDSCAPHIC MATERIAS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMAYAL WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES. THEM EXISTING TREES AND VECETATION AS RECOMMENDED BY THE ARBORST FOR PROTECTION QUIENC CONSTRUCTION. CLEAR AND GRUB STAMPS, VECETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IMPROVEMENT.

STRIP AND STOCKPILE TOPSOIL
PROTECT TEMPORARY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.
MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.
PROMDE TEMPORARY EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL.
REMOVE AND LECALLY DISPOSE OF CLEARED MATERIALS. STRIP AND STOCKPILE TOPSOIL

<u>excavation and backful</u>
all suttable borrow material for back fill of the site shall be included in the bid. Excess topsoil and unsuitable material shall be disposed of off site at location approved by coverning agencies prior to

all ste fill shall meet selected fill standards as defined by the owner's representative on the

THIS PROJECT INCLUDES:

EXCAVATION, TRENCHING, FILLING, COMPACTING AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS, ACCESS ROAD AND UTILITIES. ALL MATERIALS FOR SUBBASE, DRAINAGE FILL, BACK FILL AND GRAVEL FOR SLABS, PAVEMENT AND

IMPROVEMENTS.
ROCK EXCAVATION WITHOUT BLASTING.

ROCK EXCAVATION WITHOUT BUSTING.
SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.
REMOVAL AND LEGAL DISPOSAL OF DICKWATED MATERIALS AS REQUIRED.
REMOVAL AND LEGAL DISPOSAL OF DICKWATED MATERIALS AS REQUIRED.
FILL LAYERS THAT REQUIRE COMPACTION SHALL HAVE A MAXIMANT HIGHORESS OF 6 INCHES.
THE COMPACTING UNDER STRUCTURES, BULLHOWS SLABS, STEPS, PAREMENT AND WALKWAYS SHALL BE 95% MAXIMUM DENSITY, ASTAID OF STRUCTURES, BULLHOWS SLABS, STEPS, PAREMENT AND WALKWAYS SHALL BE 95% MAXIMUM DENSITY, ASTAID TO FROM THE MATERIAL TO COMPACTING LAYERS SHALL BE SAW MAXIMUM DENSITY, ASTAID DISST.
THE COMPACTION LAYERS SHALL HOT EXCERT BE INCHES.

AREAS THAT DO NOT MEET ASTAID 1557 REQUIREMENTS MUST BE RECOMPACTED AT THE CONTRACTOR'S EXPENSES.

ALL TRENCH EXCAVATIONS AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA

REQUATIONS FOR CONSTRUCTION.

MEREE UNSTABLE SOUL CONDITIONS EXIST, LINE THE GRUBBED AREAS WITH GEOTEXTILE FABRIC (MIRAFI 500X OR APPROVED EQUIVALENT) PROR TO PLUCING FILL OR BASE MATERIAL.

THE USE OF EXPLOSIVE IS PROHIBITED ON SITE.

ALL EXCLANATION ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIAL HORIZONTAL, UNDISTURBED AND I FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER SHALL BE

13. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH OTHER MECHANICALLY COMPACTED GRANULAR

MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION, CRUSHED STONE MAY BE USED STABILIZE THE BOTTOM OF THE EXCAVATION, STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE

invances.

Back fill symll use approved materials consisting of Lowi, Sandy Clay, Sand, Gravel or soft symle and symll be free from Cloos or Stones over 2 ½".

After completion of the foundation and other construction below grade and before back filling, all excavations symll be clean of unsutrale materials such as vegetation, debris, trash and any foreign

MATERIAL.

3.3. DRAINGE

1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AWAY FROM BUILDING OR EQUIPMENT ON THE

SITE AT ALL TIMES. SLIT 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 CONTRACTOR'S EXPENSES.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE

The controctor small be responsible for deviationic and the maintenance of surface diamage diamage diamage.

Any drain, read tile or drainage structure encountered during construction shall be returned to its organial or better conditions after construction and be noted on the record documents.

J. EROSON CONTROL.

1. CONTROL ON BELLET SOMEWHATE AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CODES ON OR ORDINANCES TO PROTECT EMBANGMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SLIT IN STREAMS AND DRINNACE PARTIS LEXANNE THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SLIT FENCE, STRAW BULES, SEDMENT BARRISHS AND CHECK DAMS.

2. EROSON CONTROL MEASURES MAY BEQUIRED IN ADDITION TO THOSE SHOWN ON DRAWNICS WHERE DETERMINED MEASURES AS PROJECTED IN ADDITION TO THOSE SHOWN ON DRAWNICS WHERE DETERMINED

NECESSARY BY ACTUAL SITE CONDITIONS.
PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY

PROR TO JAMY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTIMANCE SHALL BE CONSTRUCTION EXIT. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RORTH OF BMAYS. THIS MAY REQUIRE PERSONCE OF DRESSING WITH STONE AS CONDITIONS DEBAND, REPAIR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDMENTS. ALL MATERIALS SPILLED, DROPPED WASHED OR TRACKED FROM VEHICLE OFF SITE ONTO ROADWAY OR INTO STONE DRAINS MUST BE REMOVED. MASED OR TRACKED FROM VEHICLE OFF SITE ONTO ROADWAY OR INTO STONE DRAINS MUST BE REMOVED. MASED AND THE THE STRAUSHMENT OF CONSTRUCTION RETINANCES/BUTS, ALL PERBETER PROSON CONTROL DEVICES AND STORMANER MAYAGEMENT DROCESS IN SOLD ENTENDED, CLEARING, TO GROWNE SHALL BE DONE UNTIL SLIT BARRIERS MUST BE PLACED AS COCCESS TO GROWNED DURING CLEARING, TO GROWNE SHALL BE DONE UNTIL SLIT BARRIERS MUST BE PLACED AS CONSTRUCTION.

SLT BURRIER INSTALLATION AND DETENTION FACULTIES ARE CONSTRUCTED. SLT BURRIERS SHALL BE PLACED AT ALL DOWNSTREAM TOE OF CUT AND PELL SLOPES.

THE LOCATION OF SOME PROSON CONTROL DEVICES MAY HAVE TO BE ALTERED FROM WHAT IS SHOWN ON THE APPROVED PLANS IF DRAWINGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DEPAINES PATTERNS. IT IS THE CONTROLTOR PROPOSED PLANS OF PATTERNS. IT IS THE CONSTRUCTION ANY DIFFICURTY IN CONTROL PROSON CONTROL FOR DRAWINGE PATTERN CREATED AT VARIOUS STARES DURING CONSTRUCTION. ANY DIFFICURTY IN CONTROL PROSON DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE PONNEES MIMEDIATELY. ANY DISTURBED AREA LEFT EXPOSED FOR A PERSON GREATER THAN (7) DAYS SHALL BE STRBUEZED WITH TEMPORRY SEEDING.

8. THE CONSTRUCTION OF THE EMPORTED TO THE ENDEW TO CHROIC WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE FORSTRUCTION OF PROSON. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERSAMENT VEGETATION AND ALL ROADS AND DRIVENAYS HAVE BEEN COMPLETEL THE CONTROL OF ENDS ON CONTROL MEASURES AT THE EID OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERTY.

9. FAILURE TO INSTALL OPERATE OR MAINTAIN ALL ECROSON CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.

UTILIZED FOR EROSION CONTROL.

11. ALL OPEN SWALES MUST BE GRASSED, AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHBED MAD VECETATED WITHIN 17) DAYS OF CONSTRUCTION.

12. SEEDING AND MULCHANG OF THE SITE WILL BE ACCOMPUSHED AS SOON AS POSSBILE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADQUATE COVER OF VECETAINO OVER THE SITE FOR A PERSON OF ONE YEAR.

13. SEEDING PREPARATION: AREA TO BE SEEDED SHALL BE LOSS AND FRABLE TO A DEPTH OF AT LEAST 3. THE TOP LAYER SHALL BE LOSSENED BY RANGE, DISKING OF OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. IN LIEU OF SOUL TEST RESULTS, APPLY 50 LBS. OF DOLOMITIC LIMISTONE AND 25 LBS. OF 10-10-10 FERTILIZER PER 1000 SF. HARROW OR DISK LIMISTONE AND FERTILIZER MITO SOIL TO A DEPTH OF AT LEAST 3. ON THE SLOPES FLATTER THAN 3-1.

SEEDING: APPLY 5-6 LBS. PER 1000 SF. OF KENTUCKY 31 TALL FESCUE. APPLY SEED UNFORMLY WITH A CYCLONE SEEDED DRILL CULTIPACKER SEEDER OR HYDROSSEEDER (SUBRY INCLUDES SEEDS AND FERTILIZER RECOMMENDED ON STEED SLOPES ONLY) ON MOST, FIRM SEEDEED. MAXIMUM SEED DEPTH SHOULD BE 1/2 WHEN USING THE HYDROSSEEDER METHOD. BREATH UNTIL VECETATION IS FIRMLY ESTABLISHED IF SOIL MOSTURE IS NOT SUFFICIENT TO SUPPORT ADEQUATE GROWTH.

CONCENTRATED AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND LENGTH OF 10 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.

RIPPAP SHALL BE CLEAN, HARD, SOUND, DURABLE, UNFORM IN QUALITY, AND FREE OF MY DETRIBUTIAL QUANTITY OF

SOFT, FRABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALXALI OR

OTHER DELETEROUS SUBSTANCES.

<u>CREADING</u>

THE CONTRACTOR SHALL SEED THE GRADED AREAS PER DOT STANDARDS. AN SI GEOSOLUTIONS LAND LOCK CS2 EROSON CONTROL BLANKET SHALL BE INSTALLED FOR THE MANUFACTURER'S INSTRUCTIONS.
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ENSURE FAVORABLE GROWTH OF VEGETATION FOR A PERIOD

GROUNDING, UTILITIES AND UNDERGROUND EQUIPMENT EXPOSED BY GRADING SHALL BE REPLACED AND PROPERLY INECTED TO THE EXISTING PORTION OF THE ORIGINAL SYSTEM PER APPROVED CODES AND JURISDICTION

THE GRADING TOLERANCE FOR FILL UNDER BUILDING SLABS SHALL BE ±½ INCH MEASURE WITH 10 FT STRAIGHTEDGE. THE GRADING TOLERANCES OUTSIDE BUILDING LINES SHALL BE ±1 INCH FOR LAWNS. UNPAVED AREAS AND WALKS: AND W INCH LINDER PAVEMENT

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RE-GRADING ROADWAY AND/OR FIELD FOLLOWING THE

INSTALLATION OF UTILITIES.

ANY FILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE.

THE CONTRACTOR SHALL TAKE SPECIAL CARE TO RE-GRADE THE SITE AND MONITOR THE STABILITY OF EMBANISHENT STEEPER THAN 13-AT ALL THE OUTRING CONSTRUCTION.

PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE

PROTECTION OF OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOUGS. REPAIR DAMAGE TO DISTING GRAVEL SURFACING OR SUB-GRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR OPERATIONS. DAMAGED GRAVE SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDMANGED GRAVEL SURFACING AND SHALL BE THE SAME

CONCRETE

DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING

APPLICABLE CODES:
APPLICABLE CODES:
ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONORETE FOR BUILDINGS
ACI 318 - BUILDING CODE REQUIREMENTS FOR REBIFORCED CONORETE
ACI 544.1R - FIBER REINFORCED CONORETE (IF SPECIFIED)
ACI 544.2R - MEASURGURAT OF PROPERTIES OF FIBER REINFORCED CONORETE (IF SPECIFIED)
MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PROR TO PLACING CONORETE.
CONORETE SAULD EN ORBAN. WEIGHT, 6X ME ENTRAINED (IF -1.5X) WITH A MANIMUM OF 4" SLUMP, AND HAVE A
MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.

MAXIMUM AGGREGATE SIZE SHALL BE 1'.
THE FOLLOWING MATERIALS SHALL BE USED:
PORTLAND CIMENT:
REINFORCEMENT: ASTM C 150, TYPE I ASTM A 185 & A 615 ASTM C 33 DRINKABLE NORMAL WEIGHT AGGREGATE:

WATER: ADMIXTURES:

* FBEROUS REINFORCEMENT: NON-CHLORIDE CONTAINING ASTAL C1116 (IF SPECIFIED)
REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEPORMED UNLESS OTHERWISE NOTED. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED WIRE FABRIC UNLESS OTHERWISE NOTED. SPLICES SHALL BE CLASS BY AND ALL HORCES SHALL BE CLASS BY AND ALL HORCES SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWNINGS.

**ONOTION OF THE PROVIDENT OF THE STANDARD, OF THE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWNINGS.

CONCRETE CAST AGAINST EARTH: 3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:

CONCRETE EXPOSED TO EARTH OR MEATHER:

#6 AND SAMLER AND WHY: 1 ½ N.

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

SLASS AND WALL ½ N. N.

BEALS AND COLLINS: 1 ½ N.

CONCRETE OF ½ IN SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UND, IN ACCORDANCE WITH ACI 301

SECTION 4.2.4.

SECTION 4.2.4.

INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRIMINGS. NO REBAR SHALL BE CUT WITHOUT PROR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.

APPROVAL WHEN DIBLUNG HOLES IN CONCRETE.

CRIBING COURPOUNDS SHALL CONFORM TO ASTIM C-309.

ADMIXTURE SHALL CONFORM TO THE APPROPRIATE ASTIM STANDARD AS REFERENCED IN ACI-301.

DO NOT WELD ON TAXONICAD ERROPROCHOS STEEL.

ALL DOWELS, ANCHORS BOLTS, EMBERMENT STEEL, ELECTRICAL CONDUTS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDGED THES AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACULTATE CONSTRUCTION AS ACCEPTABLE TO THE ENGINEER.

PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOIN REINFORCEMENT SHALL BE COLD BENT WHICH BENDING IS REQUIRED.
PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANE OF WEAVINESS. WIBEAUTE THE CONCRETE TO TULLY EMBED REINFORCING. DO NOT USE VIBRATOR TO TRANSPORT CONTROUDED HOUSES OF FORMATION.

THROUGH CHUTES OR FORMINGE.

18. DO NOT PLACE CONCRETE IN PONDING WATER, ICE, OR ON FROZEN GROUND.

19. FOR COLD WATHER AND HOT WEATHER CONCRETE PLACABOTT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN ETHER COSE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.

20. FIBER REINFORCED CONCRETE MIX, IF SPECIFIED, SHALL INCLUDE 1 ½ LBS OF FIBER PER CUBIC YARD.

INTERNATIONAL &



LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA#: 26983

DRAWN BY: EW CHECKED BY: JD 2 09/11/13 REVISED POLE TYPE/LOCATION 1 05/09/13 REVISED PER COMMENTS 0 01/11/13 ISSUED FOR PERMIT REV DATE DESCRIPTION



IT IS A VOLUTION OF HAW FOR MAY PERSON QUESS THEY WE ACTING UNDER THE DIRECTION OF A MERSON PROFESSIONAL REGISTER TO ALTER THIS DOCUMEN. DIRECT EMBODIUM ROREDZION BY WAS DOLUTIONS IN WRITING, AND SOLUTIONS, INC. DISCUMENT ALL LUBBILITY ASSOCIATE WITH WRITING, AW SOLUTIONS, INC. DISCURING ALL EABILITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

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SHEET TITLE

SPECIFICATIONS

SHEET NUMBER:

13-1621 Page 20 of 21

COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS. 11.2 INSPECTIONS

1. CONSTALL DURBING AND UPON COMPLETION OF WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTROAL WORK INSTALLED UNDER THIS CONTRACT. IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

2. INSPECTIONS REQUIRED. AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING

Jurisdiction at the project site.

Inspection agency: Approved by the local and/or state agencies having jurisdiction at the project site.

Certaplates: Subjut all required inspection certaplates to the capric and utility.

CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CONTROLLED TO THE APPOINT AND SUPPORTS.

J. HANGERS, AND SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSON RESISTANCE BY TREATMENT OR INMERENT PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION, PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP QUIVAIRED.

TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLARPS, U-CHANNEL, THREADED ROOS, ETC., AS INDICATED OR

REQUIRED.

INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIAL, RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENCES SUITABLE FOR THE USE ON MATERIALS AND LOADS ENCOUNTERED, PROVIDE ALL NECESSARY HARDWARE. PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C.

STRUCTURAL MEMBERS: DO NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED 5.

BY THE ENGNEER:

MISCELANEOUS SUPPORTS: PROVIDE MY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS
AND HARDMARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.

ONE—HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

11.4 ENCLOSURES / MRCHAYS

1. EQUIPMENT CHRIMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE CALVANIZED OR EPOXY—COATED
SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND BE RATED NEWA 1 (OR BETTER) INDOORS OR NEWA SR (OR

better) outdoors.

Wredways Shall be epoxy-coated (gray) and include a hinged cover and rated nema 1 (or better) indoors, or nema 3r (or better) outdoors, ...
Junction Boxes: Junction Boxes Shall be a minimum size of 4 inches square by 1-1/4 inches deep.

LINCES, SERVES AND OPPINIOSS
CENERAL: PROVIDE ALL HOLES, SLEEVES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL
DAMAGED SURFACES TO MAIOT SUPEROUNDING SURFACES.
CONDUIT PENETRATIONS: SIZE CORE—DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND
NOT MORE THAN 1 INCH IS LEFT ARQUING THE CONDUIT, PIPE, ETC, WHICH OPPINIOS ARE CUT IN DEU OF
CORE—DRILLED, PROVIDE SLEEVE IN ROUNG HOPDINIG, SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS
THAN 1/4 INCH AND NOT MORE THAN 1 INCH ARQUIND THE CONDUIT, PIPE, ETC. PATCH ARQUIND SLEEVE TO MATCH
SUPPORTUNING SUPPLAYER.

THAN 1/4 INCH AND NOT MORE THAN 1 INCH AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH SUBROUNDING SURFACE.

PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS REQUIRING TO BE SEALED FROM POTENTIAL WAITE NITRUSION. PROVIDE FREPROOF MATERIALS FOR PENETRATIONS REQUIRING A PIRE RATED SEAL. REFER TO CUTTING AND PATCHING NOTES UNDER SECTION 1 — GENERAL.

IF ANY ROOFTOP WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNER'S APPROVED.

EXAMINATION TO THOSE IS USE PLACEMENT, THE CONTINGUID SHALL USE THE BUILDING OWNERS APPROVED ROOFING CONTRACTOR TO PREVENT VOIDING ANY EXSTING ROOFING MARRANTIES. ANY DAMAGE TO THE EXSTING ROOFING MEMBRANE SHALL BE REPAIRED MARDATELY TO AVOID MOSTURE WITRUSION INTO THE BUILDING SHELL GENERAL PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOUNTLISHING THE WORK. THIS INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

he contract documents. Epairs: repair any and all damage to work of other trades caused by cutting and patching operations,

USING SKILLED MECHANICS OF THE TRADES INVOLVED.

DO NOT CUIT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SWALL BE OF QUALITY EQUAL TO AND OF AATCHING APPEARANCE OF EXISTING CONSTRUCTION.

MATCHING APPLAYANCE OF DISTING CONSTRUCTION.

11. CONDUCTORS

1. USE 98% CONDUCTIVITY COPPER WITH TYPE XI/STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8 AVIG. USE
PRESSURE—TYPE REQULATED TIMIST—ON CONNECTORS FOR NO. 10 AWG AND SMALLER, SOLDERLESS MECHANICAL.

5. TERMINAL LIUSE FOR NO. 8 AWG AND LARGER, ALUMINIAN CONDUCTORS SHALL NOT BE USED.

1. WO BY ALL OR DESIGNEY CARE SMALL HE SEPARATED.

HENDRING, LOGG FOR THE, O ARIS AND DATEST, ALUMINUS CONDUCTORS SHALL NOT BE USED.

NO BY, INC OR ROBEC CABLE SHALL BE PERBUTTED.

EACH END OF EVERY POWER, ROUNDING AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-COORD

INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAP WITH LV PROTECTION, OR EQUAL).

THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.

ALL TEM WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL REMOVE SHARP EDGES.

ALL CONDUCTORS.

LECTRICAL SERVICE

LECTRICAL S

11.7 ELECTRON. SERVICE

1. GENERAL: COMPAY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.

2. SHORT (RORULT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.

COMPANY ANALAGE FAULT CURRENT (AT A MANALAGE FAULT CURRENT (AT A MANALAGE FAULT CURRENT (AT A MANALAGE FAULT CURRENT CATA A THE COMPANY ALL EXCOLATED FEES.

IDENTIFICATION: DENTIFY SERVICE DISCONNECTION MEANS WITH PERMANENT NAMEPLATE.

THE LOCATION SHOWN FOR A UTILITY POLE OF COMMECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE COMPANION SHALL CONCOMINATE THE ACTUAL LOCATION WITH THE ELECTRIC UTILITY.

LOCATION AND ARRANGEMENTS: DRAWNESS INDICATE DUGGRAMMATICALLY THE DESIRED LOCATION OF EQUIPMENT, TRYUNESS, OUTLITS, ETC., AND ARE NOT TO BE SCALED, PROPER JUDGMENT MUST BE EXERCISED IN THE EXECUTION TO ENSURE THE BEST POSSIBLE INSTALLATION.

PANEL AND DISTRIBUTION BOARD IDENTIFICATION: SWITCHBOARDS, PANELBOARDS, TRANSFORMERS AND DISTRIBUTION SCICIONS SHALL BE IDENTIFED WITH ENVERNED, WHITE ON BLACK, LAMINATED, RIGHT PRINCIP NAMEPLATES WITH 1/4 INCH CHARACTERS, SECURELY AFFIXED TO FACE OF CABINET.

INCH CHAMALIERS, SECURELY MILE TO PAGE OF CORRECT.

FILEPHONE SERVICE

GENERAL: INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RIJLES AND REGULATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE TELEPHONE UTILITY RELATIVE TO A TIMELY

INSTALLATION OF THE INCOMING TELEPHONE SERVICES AND PAYING ALL ASSOCIATED FEES.

METALLIC CONDUIT OR TUBING FOR TI LINES SHALL BE BONDED TO REQUIRED ON BOTH ENDS.

THE LOCATION SHOWN FOR A TELEPHONE PUEL OR CONNECTION TO THE TELECO OBLARG IS FOR CONCEPTUAL USE

ONLY, THE CONTRACTOR SHALL CORDINATE THE ACTUAL LOCATION WITH THE TELEPHONE UTILITY.

11.9 CHECKOUT. TESTING AND ADJUSTING

1. CORRECTION/PLACEMENT RITER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS AND COURSEONT SHOWN TO BE DEFECTIVE OR UNIBLE TO PERFORM AT DESIGN OR RATED.

CAPACITY AND INSULATIONS: CONTRACTOR SHALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN SCRACE DISCONNECT SMITCH AND LOAD CENTER.

WHEN SIE POWER IS DERIVED FROM A 3-PHASE SOURCE, LOAD READINGS WILL BE TAKEN AND RECORDED TO IMANTIAN A BALANCED LOAD AT THE PRIMARY SOURCE. RECORDS SHALL BE RETURNED TO THE OWNER'S

REPRESENTATIVE.

11.10 PACEMENT STSTEBS / CONDUIT

1. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT, UNDERGROUND PVC CONDUIT SHALL TRANSITION TO ROD CALVANIZED STEEL CONDUIT OR SCHEDULE 80 PVC CONDUIT BEFORE RISING ABOVE GRADE OR CONCRETE SLAB. EPISSED CONDUIT SHALL BE RISID GALVANIZED STEEL (RCS) CONDUIT OR SCHEDULE 80 PVC CONDUIT.

2. GRS CONDUITS, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USS WITH THREADED ROBO CONDUIT.

3. ELECTRICAL METALLIC TUBBING (BUT) OR RIGID, NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DIMAGE) SHALL BE USED FOR EDPOSED INDOOR LOCATIONS.

4. ELECTRICAL METALLIC TUBBING (EATT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40) SHALL BE USED FOR CONCRETED INDOOR LOCATIONS.

ELECTIONS DELIZADO TODATO CONTO TODA CONTO CONTO

LIQUID-TIGHT FLEDBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED IMPOORS AND OUTDOORS, WHERE WERNING OUTDOORS, WHERE WERNING OLD FLOW SEPARATE PULL STRINGS — 200 LB. TEST POLYETHYLENE CORD.

ALL CONDUIT BENGS SHALL BE MINIMUM OF 24 INCH RADIUS.
ALL METALLIC RACEWAYS SHALL BE GOUNDED PER NEC.
THE CONTRACTOR SHALL FELD VERFEY THE BEST AND LEAST DISRUPTIVE ROUTING OF CONDUITS, CABLE TRAYS AND DUCTS. CONDUIT ROUTING IS SHOWN AS A GUIDE ONLY, ACTUAL CONDUIT PUACEMENT IS TO BE DONE IN A

PROFESSIONAL MANNER.

J. BELOW (RADA)

THIS SITE INCLUDES NEW CRITICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE WOINTY OF OTHER UNDERGROUND SERVICES AND EQUIPMENT SUPPORTS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AND SERVICE DISRUPTION TO THESE FACULTIES. THE CONTRACTOR SHALL ALSO CONTRACT ELECTRIC AND TELEPHONE, AND ALL OTHER APPROPANTE AGENCIES PROOF TO EXCHANDION, AT THIS STIE. PROOF TO EXCHANDION, A UTILITY MARK OUT SHALL BE DONE TO LOCATE EXISTING UNDERGROUNG UTILITIES. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED OUT PROOR TO ANY EXCHANDION WORK BEING PERFORMED. PHOTOS SHALL BE TAKEN OF ALL UNDERGROUND WORK AND OWN TO THE CARRIER UNRING THE STEET SHANDOFF.

ALL TRENCHING AND EXCLANDION MITHIN EXISTING COMPOUNDS MUST BE PERFORMED BY HAND IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS. ANY OTHER METHOD OF DIGGING MUST FIRST BE APPROVED BY THE CONSTRUCTION MANAGER.

MANAGER.
ALL LOW VOLTAGE CONDUIT (600V OR LESS) SHALL HAVE A MINIMUM BURBAL DEPTH OF 24". ALL HIGH VOLTAGE CONDUIT (600V OR MORE) SHALL HAVE A MINIMUM BURBAL DEPTH OF 36".
UNDERFROUND CONDUIT SHALL BE ENCUSED IN REINFORCED CONCRETE IN AREAS OF VEHICLE TRAFFIC. CONCRETE ENCUSEDIENT SHALL BE SHAMIMUM ALL AROUND AND BETWEEN CONDUITS.
ALL BURBED CONDUIT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE. TAPE SHALL BE PLACED 12" ABOVE

CONDUIT FOR EASY IDENTIFICATION

11.12 EQUIPMENT

1. THE MAIN CREATER SHALL BE RATED FOR STANDARD ALC. RATING HIGHER THAN INCOMING EQUIPMENT ALC.

2. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD ALC. RATING HIGHER THAN INCOMING FROM UTILITY CO.

3. THE CONTRACTOR SHALL PROVIDE AN ITEMAZED CERTIFICATION TO THE CARBER OF ALL EQUIPMENT AND RELATED HARDWARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HRS OF THE MAINTENANCE TO PROPER OF THE PROVIDER AND THE PROVIDER AND THE PROVIDER TO PROPER OF THE PROPERTY OF THE PROPE

THE NOTICE TO PROCEED.

ALL ELCTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH ITS VOLTAGE RATING, PHASE CONFIGURATION, WINE CONFIGURATION, POWER OR AMPAINT RATING AND BRANCH CRECUT TO MANAGERS (I.E., PANELBOWRO AND CIRCUIT 10'S).

METAL RECOPPOLE, SWITCH AND DEVICE BOXES SHALL BE (AUMNAZED, FOXY—COATED OR HON—CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND BE RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER—PROTECTED (MP OR BETTER) OUTDOORS.

NOMETICALIS RECEPTAGE SMITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER—PROTECTED (MP OR BETTER) DUTDOORS.

11.13 TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

1. TYSS DEVICES FOR AC POWER SHALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TVSS DEVICES OR HAVE LINGUITARIE TVSS DEVICES

have unsutrale tyss devices.

The AC Power common mode surge suppressor shall be connected to the commercial power input side of the manual transfer switch.

In Markets with lughtning zone > or = to 4, rs tyss device shall be installed at the entrance to the shelter or as close as posselle to the BTS chainet for outdoor sites, to protect against lightning and

4. A TI TRANSPORT TYSS DEVICE SHALL BE INSTALLED AT ALL SITES BETWEEN THE NIU AND THE BTS.

13.— RF AND TOWER APPURIENANCE INSTALLATION RELATED NOTES
13.1 CONUM. CARE REQUIREMENTS:
13.1 CONUM. PROVIDE ALL MORE, EQUIPMENT, AND MATERIALS NECESSARY FOR RECEIVING, INSTALLING, TESTING, AND
ADJUSTING ANTENIA CARLES FROM THE ANTENIA TO THE CONNECTIONS AT THE BUSE TRANSMISSION SYSTEM. ANTENIA
THIS SHALL INCLUDE ALL EQUIPMENT SHOWN OR REQUIRED FOR A COMPLETE OPERATION SYSTEM. ANTENIA
CARLES, CONNECTORS, AND FITTING SHALL BE THIRD PARTY FURNISHED COMPONENTS AS SHOWN ON THE BILL OF MATERIALS.
CABLE HANGERS SHALL BE INSTALLED AT A MAXIMUM 4' SPACING.
INSTALLATION

COADM. CABLE LENGTHS SHALL BE FIELD MEASURED. INSTALLER SHALL MOTIFY CARRIER PROR TO PURCHUSE OF CABLE OF THE OMERALL LENGTH REQUIRED.

COADM. CABLE TYPE AND DUMETER SHALL BE VERIFIED WITH CARRIER.

COADM. CABLE SHALL BE LABELED IN ACCORDANCE WITH CARRIER.

COADM. CABLE SHALL BE LABELED IN ACCORDANCE WITH CARRIER ELECTRICAL MATERIALS AND METHODS SPECIFICATIONS. ALL MAIN CABLES WILL BE COLOR CODED AT FOUR LOCATIONS: A) AT ANTENNA PROR TO JUMPER, B) AT THE BOTTOM OF THE TOWER, C) EXTERIOR PART OF THE WARL CUIDE ENTRY PORT (AT THE SHELTER/CABINET WALL), D) INTERIOR OF THE SHELTER/CABINET.

PROMDE AT LEAST 6' OF SLACK IN THE MAIN COADM. CABLES AT THE ANTENNA END TO PROMDE FOR FUTURE COMMECTOR REPLACEMENT.

INSTALL CONNECTOR REPLACEMENT.

INSTALL CONNECTOR REPLACEMENT.

INSTALL CONNECTORS TO COADM. CABLE AT BOTH ENDS (ANTENNA END AND BTS LOCATION).

UPON SUCCESSFUL COAMPLETION OF THE SWEEP TEST, THE CONTRACTOR SHALL PROMDE A.

WEATHERMOST SEA. ON THE COAX CABLES.

THE MINIMUM BEDIDING RAULS FOR ALL ANTENNA CABLES SHALL BE AS SHOWN BELOW OR PER THE MANUFACTURER, WHICHEVER IS MORE CONSERVATIVE:

CABLE 1/2" 7/8" 1-5/8" CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENOS. CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD.

ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, B) MIDDLE OF THE CABLE RUN IF OVER 200°, C) PRIOR TO ENTERING EQUIPMENT SHELTER/CABINET (WITHIN 1° OF ENTRY).

GROUNDING KITS — AFTER INSTALLATION OF GROUND STRAYS, THE CONNECTIONS SYMLL BE MADE WEATHER TROIT USING WEATHER FORCH KITS AS IDENTIFIED. GROUND PROTAILS SYMLL BE BROUGHT OUT IN THE DOWNNARD DIRECTION FROM THE CONNECTION TO THE ANTENNA CABLE WITHOUT ANY SHARP BENDS (MINIMUM RADIUS 10") AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

13.2 ANTENNA REQUIREMENTS:

1. AZIMUTHS ARE ORIENTED CLOCKINSE FROM TRUE NORTH.

2. CONTROORS SHALL YERRY ANTENNA TYPE, AZIMUTHS, AND DOWNTRITS WITH THE CARRIER PRIOR TO CONSTRUCTION.

3. THE MINIMUM DISH RAD CENTER HEIGHT ABOVE THE ROOF SHALL BE 6'-8'.

13.3 TOWER CUMBING SAFETY GUIDELINES
1. TOWER CUMBERS MUST HAVE COMPLETED A NATE CERTIFIED CLINBING TRAINING COURSE PER CONTRACT SPECIFICATIONS

TOWER CUMBERS MUST HAVE COMPLETED A MATE CERTIFIED CUMBING TRAINING COURSE PLY CONTINUED SPECIFICATIONS PROOR TO MORK ON THIS STRUCTURE.

CONTRACTOR MUST COMPLY WHY THE STANDARD "RF POWER AND LOCKOUT/TAGOUT" PROCEDURES BEFORE ALLOWING CUMBERS ON THIS STRUCTURE.

TOWER CUMBERS WILL NOT BE ALLOWED TO ACCESS TOWER IN ADVERSE WEATHER CONDITIONS, INCLUDING HIGH WINDS, LICHTIMING, RAIM, SHOW ICE OR DURBY MIGHT TIME.

CONTINUEDRO OR CUMBERS SHALL IMMEDIATELY REPORT MAY CUMBING EQUIPMENT OR CONDITIONS JUDGED IMMEDICULTE.

EMERGENCY NUMBERS SHALL BE POSTED ON SITE AND ADVERTIZED TO CLIMBERS BEFORE THE BEGINNING OF THE

6. SAFETY MEETINGS SHALL TAKE PLACE EVERY MORNING BEFORE THE WORK DAY BEGINS.

SITE SPECIFIC NOTES

CONSTRUCTION INCLUDES:

 MISTALIATION OF COMMUNICATION EQUIPMENT
 MITTERNS AND MOUNT INSTALLATION ON STRUCTURE
 THE PROFESSIONALS INVOLVED ON THIS PROJECT ARE AS FOLLOWS: AW SOLUTIONS, INC 300 CROWN OAK CENTRE DRIVE

LEGEND AND ABBREVIATIONS
AND AUTHORITY HAVING JURISDICTION
AND AMERICAN WIRE GAUGE BARE COPPER WIRE BASE TRANSMISSION SYSTEM COAX ISOLATED GROUND BAR, EXTERNAL CHARGER BLECTRICAL METALLIC TUBING GENERATOR COLORAL POSITIONING SYSTEM
MASTER ISOLATED GROUND BAR
NATIONAL ELECTRIC CODE, LATEST ADOPTED EDITION
POWER PROTECTION CABINET POLY VINYL CHLORIDE RIGID GALVANIZED STEEL





LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA#: 26983 DRAWN BY: EW CHECKED BY: JO

2 09/11/13 REVISED POLE TYPE/LOCATION 1 05/09/13 REVISED PER COMMENTS 0 01/11/13 ISSUED FOR PERMIT REV DATE DESCRIPTION



IT IS A VOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DRECTION OF A LICENSED PROFESSIONAL EMBRISH TO ALTER THIS DOCUMENT, UNLESS SERVICIN'S AGREET OF ARE ANY SOLUTIONS IN MIRTING, ANY SOLUTIONS, INC. DISCLANDS ALL LUBLITY ASSOCIATION WITH THE PLUSE, ALTERITHON OR MODIFICATION OF THE CONTENTS HEREIN.

SFL60_1

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1960 SE 10TH AVENUE FORT LAUDERDALE, FL 33316

SHEET TITLE:

SPECIFICATIONS

SHEET NUMBER:

SP2

13-1621 Page 21 of 21