

prior to starting work at (954) 828-5649

PERMIT NO. CC13-05

**District 3** 

Applicant Name and Job Number Crown Castle SFL 61\_2 Job Address and Location 539 NW 17th 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 X This permit application is for an exemption from the requirement to install communications service facilities 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.1 ☐ C.2 ☐ C.3 ☐ C.4 ☐ C.6 □C.7 □ C.12 (Size) (Height) (Front Yard) (Corner Yard) (Separation) (Exist. Facility) (Collector) X With the exception of any waivers that may be checked above, the proposed at grade facilities conform to the requirements in Section 25-100.1 of the Code Notice of the pending application has been provided to all property owners abutting public rights-of-way within X 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. X The proposed site will be maintained by Crown Castle in accordance with the approved Graffiti Mitigation Plan 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 X The proposed at grade facilities depicted on the attached plans are completely located in the public rights-ofway. 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 day of Sworn to nd subscribed before me this My Commission Expires Notary Public. State of Florida (Seal SHANE HAFNER MY COMMISSION # EE831765 EXPIRES: September 03, 2016 (Do not write below this line) · Conceptual approval date by , Subject to the following conditions: 1) A detailed visual mitigation plan is required by Final Permit approval date Final Inspection date by \*\*Notify Engineering Permits Division 24 hours

#### REVIEW CHECKLIST FOR CABINETS IN RIGHTS-OF-WAY

X	Application	<b>Package</b>	complete -	3 sets	(JJ)
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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)
_	45 Day Call vm Marsa to Commission (1)

# ☐ 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	
X	Proposed landscaping is in accordance with plan on file with City	No.:
×	If landscaping is to be maintained by Property Owner, Agreement has been provided	Crown Castle
X	Landscaping plan has been checked by Dave Genarro	
X	New cabinet is at least 2 feet from other cabinets, poles, etc.	OK
X	Cabinet not in sight triangle (sight triangle may be reduced to 10 feet)	OK
X	ADA requirements met	OX
X	Roadside recovery setback met (per Florida Green Book)	OK
X	Cabinet/landscaping is at least one foot from sidewalk	8K
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)	
	Electrical Permit – Final inspection passed	

# **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 BEDAUT APPLICATION)	
8555 NW 64th Street Miami, Fl. 33166	(PROVIDED BY CITY AT TIME OF PERMIT APPLICATION)	
813-447-0333		
	PROJECT NAME/ADDRESS: SFL 61-2	
<ul> <li>This routing form should be comple "PERMIT").</li> </ul>	ted and submitted as an attachment to the above-referenced permit (hereinafter	
<ul> <li>Obtaining signatures on this routing for only after issuance of the PERMIT, significant of the PERMIT, significant of the PERMIT of the PERMIT</li></ul>	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 as and attached. If the detours affect FDOT right-of-way, a permit from FDOT must	
· If work is taking place in County o	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	
are not permitted in the right-of-way). Fework.  539 NW 17th Ave. approximately 77'	is, if cranes will be used, etc. (staging and storage of materials/equipment Please note if additional sheets have been attached for the description of South of NW 6th Place. Work on shoulder and sidewalk closure. inet and new 40' wood utility pole. Attach Crown Castle antenna	
to new 40' wood utility pole.	met and new 40 wood utility pole. Attach Grown Castle antenna	
are necessary, if flagmen will be provide any other special considerations related the description of MOT.	ected 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 60 attached. Daily work hours 8am - 4pm.	
	certified worksite traffic control technician or traffic control supervisor (as its 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.	
The MOT plan shall be in accordance win Control Devices for Streets and Highway approved plan shall be the responsibility	th provisions of the latest edition of <u>Part IV of the Manual of Uniform Traffices and FDOT Design Standards</u> . Compliance with the requirements of the of the APPLICANT.	
(APPLICANT) Throndey	Armando Hernandez / Site Development Manager (Print Name/Title)	
	anted herein,Armando Hernandez (APPLICANT) agrees to	
the MOT plan approved under the PERM	Fort Lauderdale for any damages, claims or injuries that may result from	
the MOT plan approved under the PERM  Crown Castle NG East Inc.	Fort Lauderdale for any damages, claims or injuries that may result from	

Rev. 6-8-12

ect Name:	PERMIT NUMBER:
cant should collect the s ested concurrently via fa	ignatures in this section (if required). To expedite processing, signatures may be x 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 <sup>nd</sup> 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)
above signatures are collec	sted, Applicant should forward the MOT Plan and this routing form to the person listed below
(Date)	<b>Transportation and Mobility</b> Heslop Daley, Project Engineer 290 NE 3 <sup>rd</sup> Avenue Tel: (954) 828-5734 Fax: (954) 828-3734
Manager's signature to b	e requested by City Staff only (if signature is required)

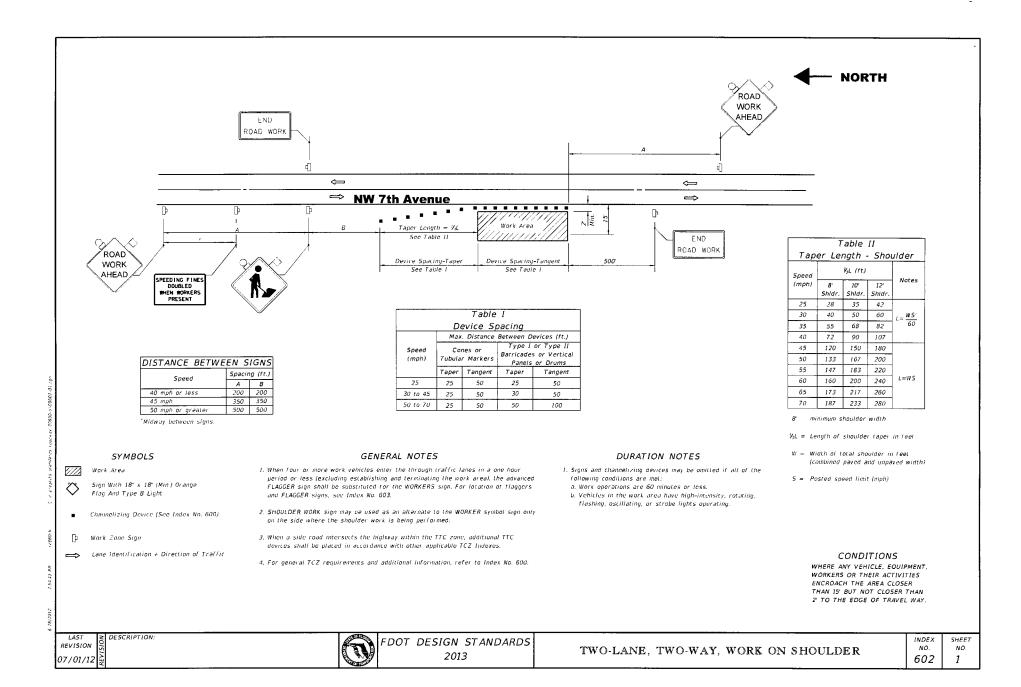
A copy of the PERMIT, this routing form and MOT shall be kept on-site and made available to the City inspector at all times.

City Manager's Office

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.

Lee R. Feldman, ICMA-CM, City Manager 100 N. Andrews Avenue, 7<sup>th</sup> Floor Tel.: (954) 828-5013 or Fax: (954) 828-5121

(Date)



2013

07/01/12

NO.

660

SHEET

NO.

1

- NORTH

WALKWAY PEDESTRIAN

WAI KWAY



Crown Castle

8555 NW 64<sup>th</sup> 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:

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

cc: 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

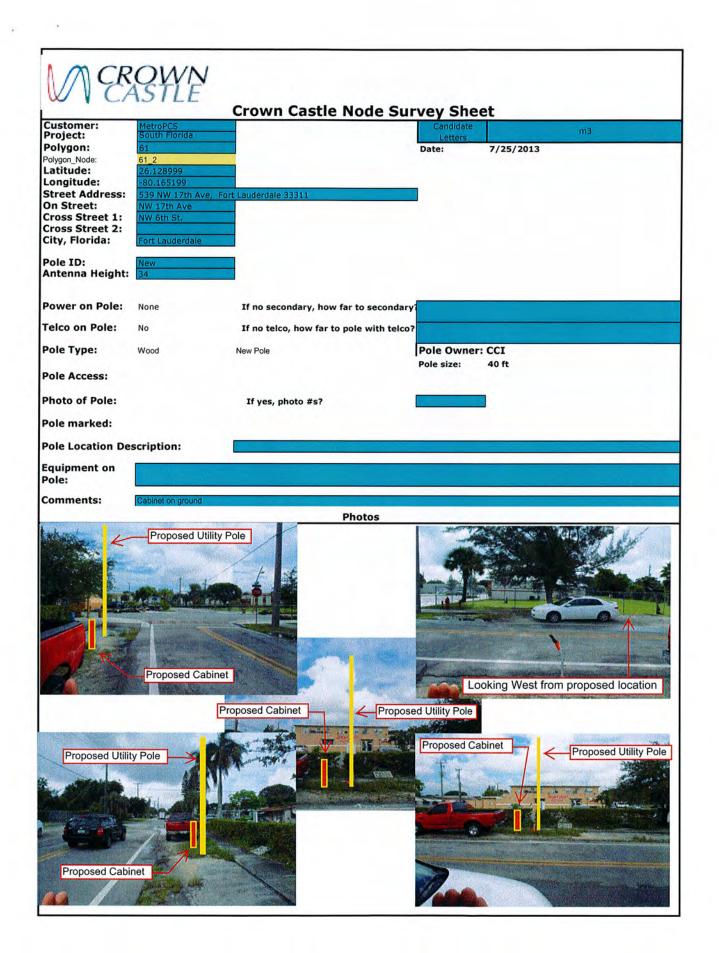
Director of Implementation Southeastern Region

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#### 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

Betty Hankerson,

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: 539 NW 17<sup>th</sup> Avenue Ft. Lauderdale, Fl. 33311

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

Dorothy Brown,

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: 539 NW 17<sup>th</sup> Avenue Ft. Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

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

Dorsey Riverbend Civic Association,

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: 539 NW 17<sup>th</sup> Avenue Ft. Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

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

Everlena Seymore,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Fort Lauderdale Community Redevelopment Agency,

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: 539 NW 17<sup>th</sup> Avenue Ft. Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

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

Gihad & Ikram Hasan,

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Sincerely,

Armando Hernandez

Site Development Manager

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M Jr. & Ludeather Carter,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Marianne Davis,

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: 539 NW 17<sup>th</sup> Avenue Ft. Lauderdale, Fl. 33311

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Sincerely,

Armando Hernandez

Site Development Manager

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

Pamela Corp.,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Ralph Rachels,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Shakira Ray,

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Sincerely,

Armando Hernandez

Site Development Manager

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Zakzook 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: 539 NW 17<sup>th</sup> Avenue Ft. Lauderdale, Fl. 33311

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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 :

**CROWN CASTLE** SFL61\_2

ADDRESS:

CLIENT SITE ID#:

539 NW 17TH AVENUE FORT LAUDERDALE, FLORIDA 33311

SITE TYPE:

**NEW WOOD POLE** 

PROPERTY INFORMATION SITE COORDINATES:

PROPERTY OWNER: ADDRESS:

JURISDICTION:

26.128999° -80.165199° CITY OF FORT LAUDERDALE

CROWN CASTLE 8555 NW 64TH STREET MIAMI, FL 33166

PROJECT TEAM

PROJECT MANAGEMENT FIRM: CROWN CASTLE ADDRESS: 8555 NW 64TH STREET MIAMI, FL 33166

ENGINEERING FIRM: ADDRESS:

CONTACT: PHONE:

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

## FLORIDA COA#: DESIGN CRITERIA:

- FLORIDA BUILDING CODE 2010 AND ASCE 7-10. WIND LOAD PER ASCE 7-10.
   A. ULTIMATE WIND SPEED: 170 MPH.
   B. BUILDING RISK CATEGORY: II.
   WAND EXPOSURE: 0.
- C. WIND EXPOSURE: C. 2. DEAD LOAD:
- A. EQUIPMENT WEIGHT PER MANUFACTURER DATA.

  3. SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

**DRAWING** SHI INDEX

EET	SHEET DESCRIPTION	REV
T1	TITLE SHEET	2
C1	SITE PLAN	2
1.1	SITE PLAN ENLARGEMENT	2
1.2	LANDSCAPE MITIGATION PLAN	2
C2	ELEVATION	2
C3	DETAILS	1
C4	DETAILS	1
P1	SPECIFICATIONS	1
P2	SPECIFICATIONS	1

<u>APPROVALS</u>	DATE:
PROJECT MANAGER:	
CARRIER:	
LITH ITY:	

INTERNATIONAL &

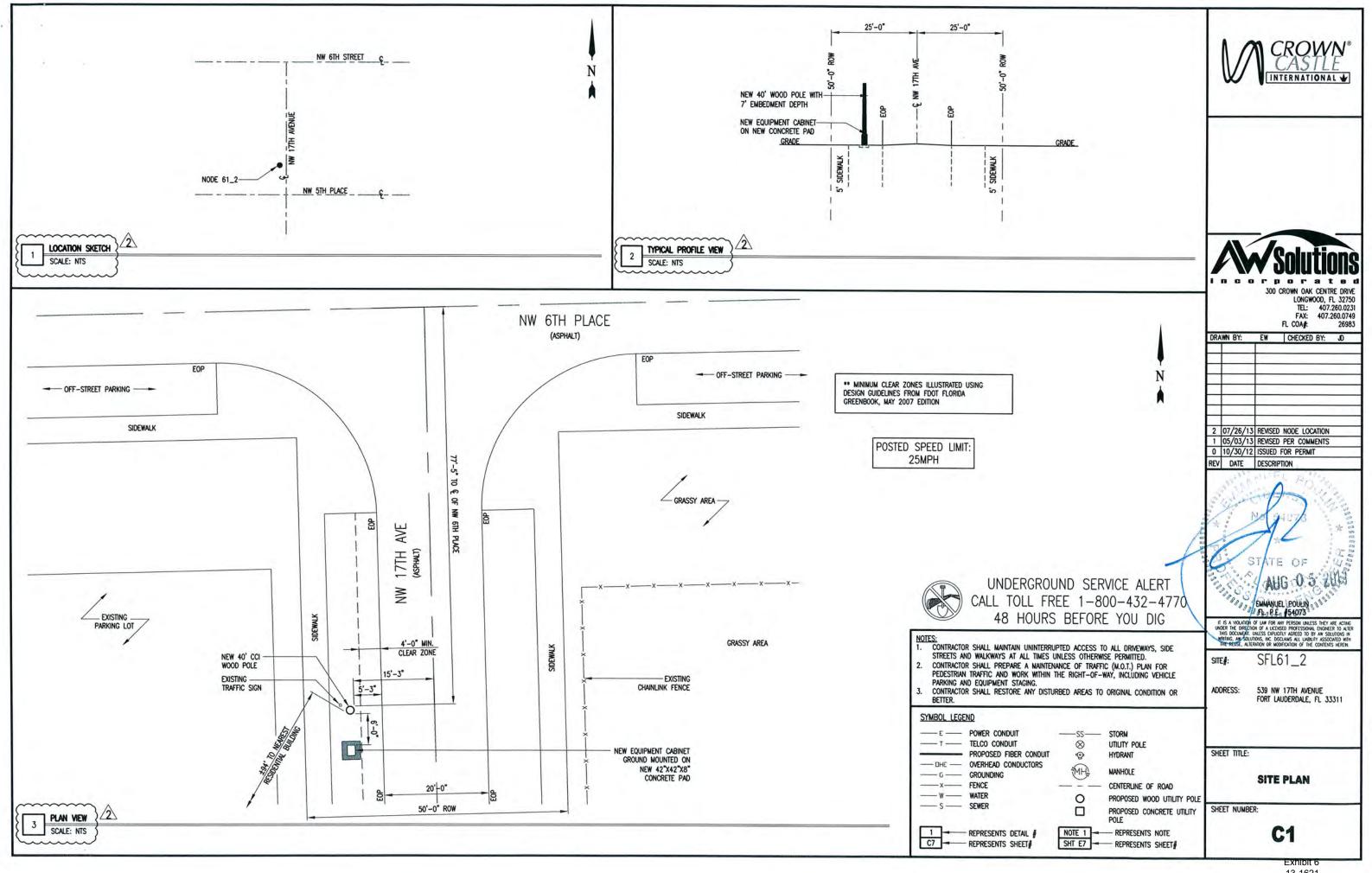


300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749

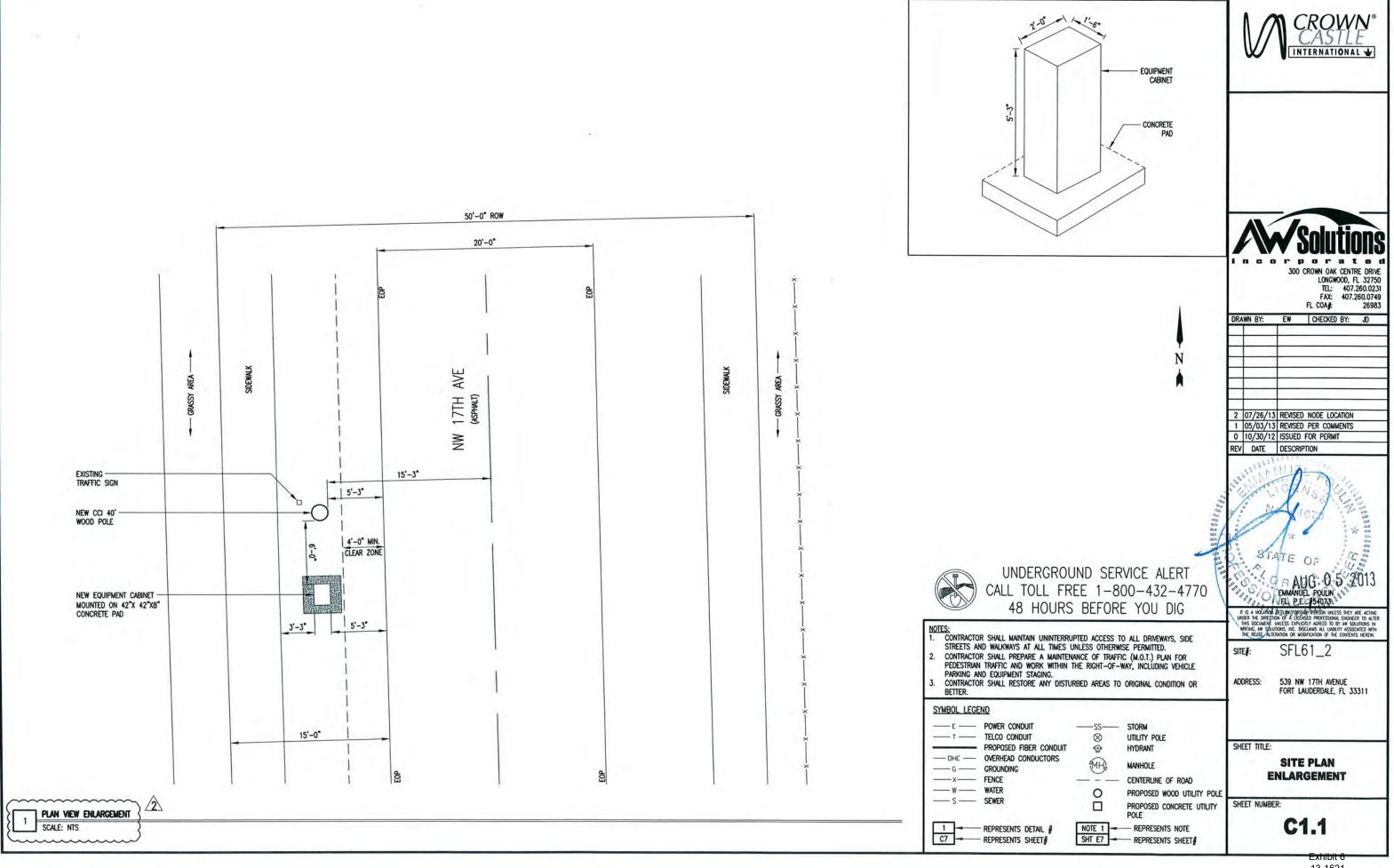
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REV	DATE	DESCRIP	TION AND	112
	DATE	CE	SE	IN.

T1

	29A, MERGE ONTO FL-838 EAST/WEST SUNRISE BLVD., TURN RIGHT ONTO NW 17TH AVENUE, TURN RIGHT ONTO NW 7TH PLACE, TAKE LEFT ONTO NW RIGHT	UNDERGROUND SERVICE ALERT CALL TOLL FREE 1-800-432-4770 48 HOURS BEFORE	SHEET NUMBER:
DRIVING DIRECTIONS	GENERAL VICINITY MAP	SPECIFIC LOCATION MAP	TITLE SHEET
th 5 th Ance Riverland B. Sw 22nd Am Riverland Sw 8th 5t Ance Sw 8	Athletic Field was swell cut of the swel	Ave postalporti	SHEET TITLE:
MELROSE SH 255 MANORS Torrace SW 5th St .	SW 5th St Sw 5th	NW 16th Ave	ADDRESS: 539 NW 17TH AVENUE FORT LAUDERDALE, FL 3331)
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NW 6th Ct  NW 6th Ct  NW 6th St  search Library (i)  Cultural Center  P	NW 6th St NW 6th	Pizza & Chipotle & W	SAOTS
True Pentecostal Church of God NW 7th St NW 6th PI	NW SILEST NW THE DURSS NW SILES NW THE SECOND THE SECON	Ray's Ray's NW 6th St NW 6th St	1 05/03/13 REVISED PER COMMENTS 0 10/30/12 ISSUED FOR PERMIT REV DATE 1025CRIPTION 29/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3
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rch Parather Ln	The New 11th PI ST NW 11th CI NW ST New 11th St New 11	W 18th A Mt Olive Gardens Apartments	
EVELT NW 27	NW 13th St NW 13th Ct NW 13th St	WW.11647.WW	FL COA#: 269  DRAWN BY: EW   CHECKED BY: JD



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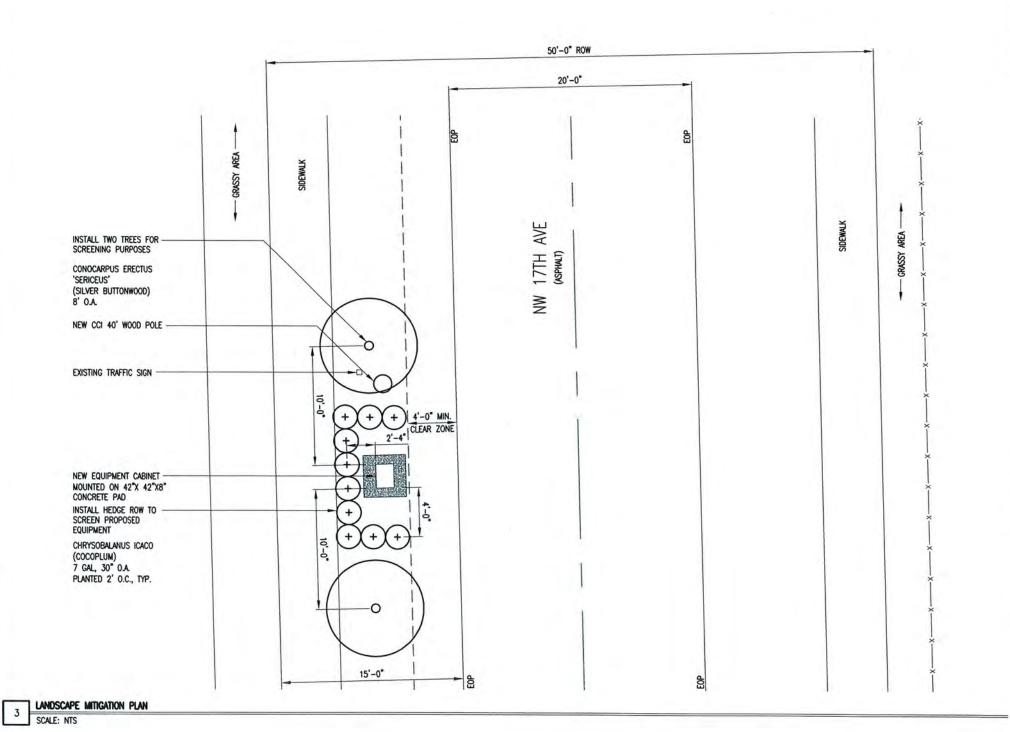


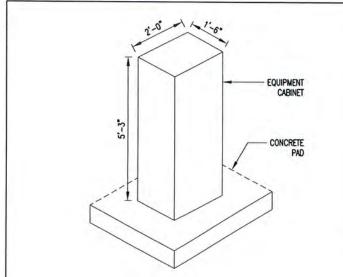
13-1621

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- LANDSCAPE NOTES:
  1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS" PART I, 1963, AND PART 11, STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, FLORIDA. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY LOCATION OF ALL
- UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
- ALL PLANT BEOS TO RECEIVE 10" OF 50/50 MIX. 50% SAND, 50% MUCK.

  IT SHALL BE THE RESPONSIBILITY OF THE LANDSACPE CONTRACTOR TO PROVIDE A SMOOTH UNIFORM GRADE PRIOR TO INSTALLING SOD.
- ALL MULCH TO BE 'FLORAMULCH' MELALEUCA MULCH.
- ALL TREES TO BE STAKED IN THE FIELD WITH APPROVED NURSERY STANDARD METHODS.
- 7. TREES/PALMS SHALL BE INSTALLED A MIN. OF 3' FROM UNDERGROUND UTILITIES.







TEL: 407.260.0231 FAX: 407.260.0749 FL COA#:

DRAWN BY: EW CHECKED BY: JD 2 07/26/13 REVISED NODE LOCATION 1 05/03/13 REVISED PER COMMENTS 0 10/30/12 ISSUED FOR PERMIT REV DATE DESCRIPTION



UNDERGROUND SERVICE ALERT CALL TOLL FREE 1-800-432-4770 48 HOURS BEFORE YOU DIG

NOTES:

1. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS, SIDE STREETS AND WALKWAYS AT ALL TIMES UNLESS OTHERWISE PERMITTED. CONTRACTOR SHALL PREPARE A MAINTENANCE OF TRAFFIC (M.O.T.) PLAN FOR PEDESTRIAN TRAFFIC AND WORK WITHIN THE RIGHT-OF-WAY, INCLUDING VEHICLE PARKING AND EQUIPMENT STAGING. CONTRACTOR SHALL RESTORE ANY DISTURBED AREAS TO ORIGINAL CONDITION OR

YMBOL	LEGEND
YMBOL	LEGEND

BETTER.

---- E ---- POWER CONDUIT - T - TELCO CONDUIT - PROPOSED FIBER CONDUIT - DHE - OVERHEAD CONDUCTORS - G - GROUNDING

---- W ---- WATER --- S--- SEWER

REPRESENTS DETAIL # C7 REPRESENTS SHEET#

 $\otimes$ UTILITY POLE 0 HYDRANT 0

MANHOLE CENTERLINE OF ROAD PROPOSED WOOD UTILITY POLE 

STORM

PROPOSED CONCRETE UTILITY NOTE 1 - REPRESENTS NOTE REPRESENTS SHEET#

EMMANUEL POULIN

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER HIS DOCUMENT, UNLESS THEY ARE ACTING UNDER HIS DOCUMENT, UNLESS EXPLICITLY ASSET DO BY ANY SOLUTIONS IN WIRTHOR, ANY SOLUTIONS, INC. DECLAUS ALL LUBLITY ASSOCIATIO WITH HE RESES, LITERATION OR MODIFICATION OF HE CONTENTS HEREIN.

SFL61\_2

539 NW 17TH AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE:

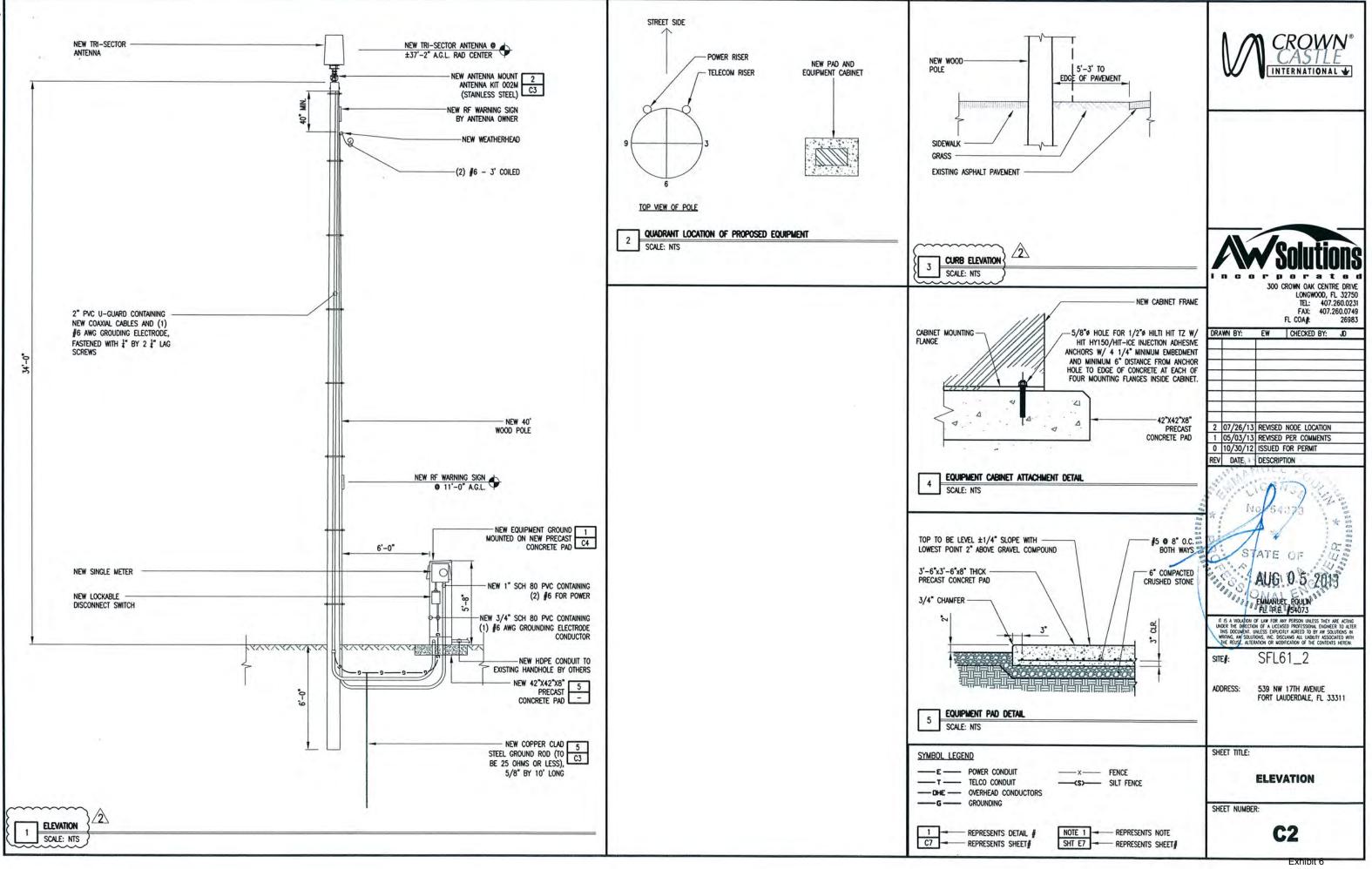
LANDSCAPE **MITIGATION PLAN** 

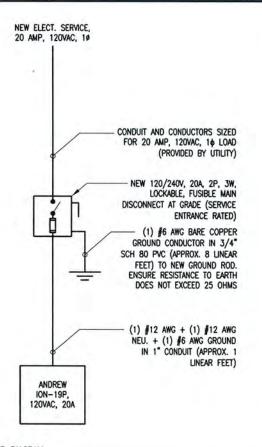
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#### RISER DIAGRAM SCALE: NTS

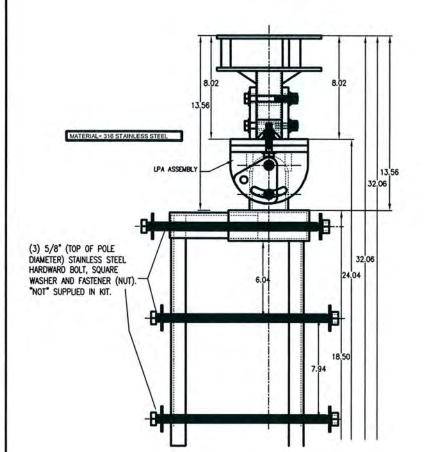
- SHORT CIRCUIT CURRENT RATING OF FUSIBLE MAIN DISCONNECT: 100kA.
- PER FLORIDA BUILDING CODE 2010: FEEDER CONDUCTORS ARE SIZED FOR A
- MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD OF 20A.
  PER FLORIDA BUILDING CODE 2010: BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD. HOWEVER, THIS DESIGN CONTAINS NO BRANCH CIRCUITS.

PROVIDE SCHEDULE 40 PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.

SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENTS.

PROVIDE SCHEDULE 80 PVC CONDUIT AND ELBOWS AT STUB UP LOCATIONS (i.e. SERVICE POLE, BTS EQUIPMENT, ETC.).

- 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.



ANTENNA MOUNTING KIT (002M) SCALE: NTS

# 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)	IMS: <-150 dBc		
Polarization	+45" upper and lower band -45" upper and lower band		
Connector	6 x 7-16 DtN female		
Isolation intrasystem intersystem	>30 dB >40 dB (806-960 // 1710-2170 MHz)		
Radome oolor	Brown, gray or dark gray (custom colors evailable 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 ft² (0.148 m²)		
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 uti pole using a custom mounting brack supplied by the customer.		

GRADE

EXOTHERMIC WELD

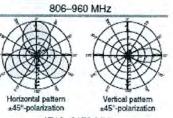
(2) #6 AWG GROUNDING

ELECTRODE CONDUCTOR

GROUND ROD (COPPERCLAD

STEEL), 5/8" X 10'-0"





1710-2170 MHz forizontal pattern

4	100	
Vert	ical pa	tter
±45°	polari	zab

pecifications:	806-866 MHz	824-894 MHz	880-960 MHz	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Sain	11.1 dBi	11.4 dBi	11.8 dBi	12.5 dBi	13.3 dBi	13.6 dBi
ront-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)			
Asximum input power	250 watts (at 50°C)	250 watts (at 50°C)	250 watts (at 50°C)	200 watts (at 50°C)	200 waits (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)	18° (half-power)	17.5° (half-power)
Orose polar ratio Main direction 0" Sector -60"	25 dB (typical)	25 dB (typical)	25 dB (typical)	t6 dB (typical)	18 dB (typical)	20 dB (typical)

ANTENNA SPECIFICATIONS 3

SCALE: NTS



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

DRAWN B	Y: EW	CHECKED BY:	JD.
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1 05/03/13 REVISED PER COMMENTS 0 10/30/12 ISSUED FOR PERMIT

REV DATE DESCRIPTION



IT IS A MOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFISSIONAL ENGINEER TO ALTER MISS-DOCUMEN, UNLESS EPUCHETY AGREED OF AWA SOLUTIONS IN WRITING, TW. SOLUTIONS, INC. DISCLAMES ALL LUNGUITY ASSOCIATED WITH HE REISE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SFL61\_2 SITE#:

ADDRESS: 539 NW 17TH AVENUE

FORT LAUDERDALE, FL 33311

SHEET TITLE:

**DETAILS** 

SHEET NUMBER:

C3

NEW TRI-SECTOR ANTENNA (1) #6 AWG GROUND IN 3/4" CONDUIT GRADE NEW LIGHTNING ARRESTOR

ANTENNA GROUNDING SCHEMATIC

SCALE: NTS

# FINISHED GRADE, STONE, ASPHALT, RESTORE SURFACE TO MATCH CONCRETE PAVING OR SOD. MATCH SLOPE ORIGINAL CONDITION AND THICKNESS OF EXISTING SURFACE UNDISTURBED COMPACTED BACKFILL (SUITABLE ON SITE MATERIAL) 6" WARNING TAPE TELCO CONDUIT WHERE APPLICABLE (REFER TO NOTE 4) NEW UNDERGROUND CONDUIT(S) TRENCHING DETAIL (IF APPLICABLE, REFER TO SITE PLAN) SCALE: NTS

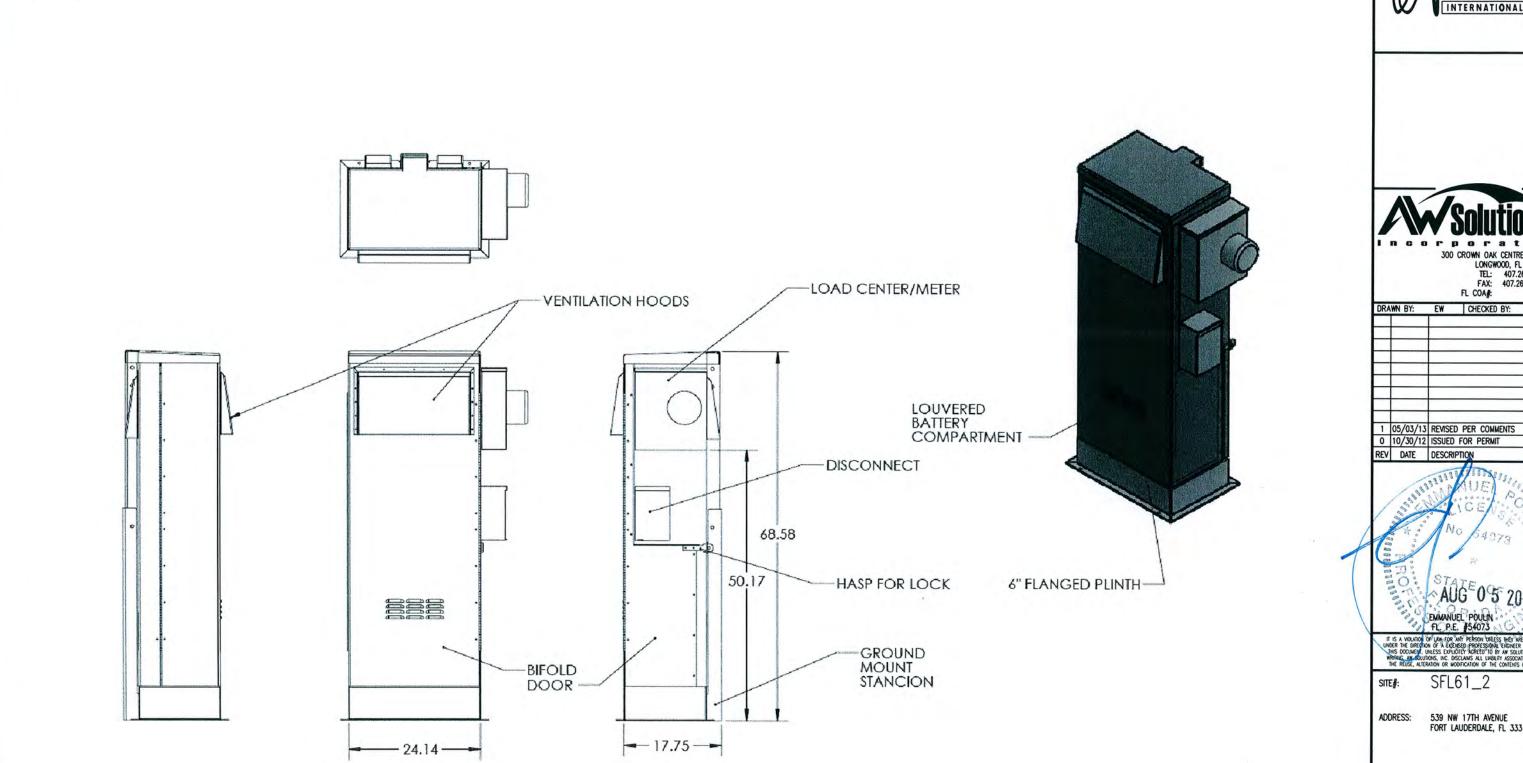
CONDUIT/TUBING CONTAINING FIBER OPTIC CABLING TO BE FILLED WITH GEL TO PREVENT WATER PENETRATION, COMMONLY REFERRED TO AS "ICKY PICK."

2'-6" I

GROUND ROD TO BE DRIVEN 10' VERTICALLY.

GROUND ROD DETAIL

SCALE: NTS



SHROUD KIT LOSH-BBU-1 GROUND MOUNT





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

DRAWN BY: EW CHECKED BY: JO

AUG 0 5 2013

539 NW 17TH AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE:

**DETAILS** 

SHEET NUMBER:

C4

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1 — GENERAL PROMISIONS
1.1 — CONTRACT OVERWEN
1. THE INTERMINO OF THE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLIDE ALL LABOR AND
MATERIALS REASONABLY INCRESSARY, 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 DESIGNA
THE MEANS AND METHIOSS OF PROCEDURE OF THE WORK. THE CONTRACTOR SHALL SUPPRISE AND CONDITIONED AN
WORK, USING HIS PROPESSIONAL KNOWLEDGE AND SOLLS. HE IS SOLLEY RESPONSIBLE FOR ALL CONSTRUCTION AS
METHIOSS, 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

LUPPLIEURITS:

FBC — FLORIDA BUILDING CODE 2010

ASC — AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS

IEEE — INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

NEC — MATDONAL ELECTRICAL CODE

NEMA — MATDONAL ELECTRICAL MANUFACTURERS ASSOCIATION

III. — IMPREMENTEDE LABORISORIES

UL - UNDERWRITERS LABORATORIES
NSPC - NATIONAL STANDARD PLUMBING CODE INC - INTERNATIONAL MECHANICAL CODE

INC. — INTERMITORIA RECOMMENDA CODE.

MEPA — NATIONAL FIRE PROTECTION ASSOCIATION

OSMA — OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

ANSI/TIA — TELECOMMUNICATIONS INDUSTRY ASSOCIATION — 222—G STANDARD

ALL COVERNING STATE, COUNTY AND LOCAL CODES AND ORDINANCES

HE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE

FOR THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE

THE MOST STRENGTH CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.

THE ENGINEERING DRAININGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. HOODENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ENGINEERING DRAININGS DUE TO CHANGES AFFECTING EDISTING ELECTRICAL OR OTHER SYSTEMS, SUCH INCIDENTIAL WORK IS ALSO A PART OF THIS CONTRACT. INSPECT THOSE AREAS AND ASSERTAN WHAT IS RECEIPED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREDMENTS AT NO ADDITIONAL COST TO THE OWNER. DO NOT SCALE DRAININGS, ALL DIMENSIONS TAKE PRECEIPENCE OVER SCALE.

MINOR DEVALUATIONS FROM THE DESIGN LYDUT ARE ANDEPARED AND SHALL BE CONSIDERED AS PART OF THE WORK HOWEVER, NO CHANGE THAT ALTER THE CHARACTER WITHIT OF THE DESIGN WILL BE MADE OR PERMITTED BY THE

OWNER WITHOUT A CHANGE ORDER.

owner without a convex duck.

General Covil, Structural, Electrical and antenna drawings are interrelated. In performance of the work, each contractor must refer to all drawings, 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 COMPUED WITH IN ALL RESPECTS. THE MOST RESTRICTIVE NOTES SPECIFED ARE TO TAKE PRECEDENCE. CERTAIN SECTIONS OF THE GENERAL NOTES MAY NOT APPLY TO EVERY SITE. THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE GENERAL 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.

REPRESENTATION OF TRUE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARNING OF THE TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY OF SHAMMING AND THE SITE THE CONTRACTOR SHALL RELY OF THE TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE WARDUS ELEMENTS OF THE WORDING DRAWINGS AND THE TRUE MORTH ORBITATION AS DEPICTED ON THE CHILL SURVEY. THE CONTRACTOR SHALL ASSIME SOLE LABILITY FOR ANY FAILURE TO NOTIFY THE ENGINEER.

ENGINEER.

THE CONTRACTOR SHALL USE ADEQUATE MUNIBERS OF SIGLED WORKINEN 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 STE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTRIBUCITY AND HOT DE LIMITED TO MORALL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO INDEMNITY AND HOLD THE DESIGN ENGINEER HARMLESS FROM ANY AND ALL LABBILTY, REAL OR ALLEGO, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLINING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS SUCH AS OSHA COMPLIANCE DURING THE PROCRESS OF THE WORK. THE ENGINEER WILL NOT ADMSE NOR PROVIDE DIRECTION AS TO SAFETY PRECAUTIONS AND REGULATIONS SUCH AS

to safety precautions and programs. The contractor shall assume complete responsibility of the security of the site until completion of the

THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE STE UNTIL COMPLETION OF THE
CONSTRUCTION.
 IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMPE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS
WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO BISINET THAT WORK PROGRESSION IS NOT INTERCRIPTED.
THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMEN WORK ON THIS
JOB SITE DURING THE PERFORMANCE OF THIS CONTRACTOR AND ALL OTHER CONTRACTORS SHOWNER WORK ON THE
WORK PERFORMED IN THE WORK THE OWNER WITH AND SHEDULE TO THE PROPERTY OWNER WELL IN JUNIANCE OR OTHER
STARTING DATE OF THE WORK. THE OWNER SHALL ALSO BE NOTIFIED OF A CHANGE IN THE CONSTRUCTION SCHEDULE.
 THE CONTRACTOR SHALL SUBJECT ON OWNER SHALL ALSO BE NOTIFIED OF A CHANGE IN THE CONSTRUCTION SCHEDULE.
 EACH CONTRACTOR IS RESPONSIBLE FOR PULLING THE BUILDING PERMIT AT THE LOCAL JURSDICTION AS THE
CONTRACTOR OF RECORD, AND SHALL PROVIDE THE JURISDICTION WITH ALL PROOF REQUIRED TO OPERATE AS THE
CONTRACTOR OF THE COND. AND SHALL PROVIDE THE JURISDICTION WITH ALL PROOF REQUIRED TO OPERATE AS THE
CONTRACTOR OF THE COORD. PRIME IS, INSPECTIONS, CENTER
CONTRACTOR IS RESPONSIBLE FOR PULLING THE BUILDING PERMIT AT THE LOCAL JURSDICTION AND INCURRING THE
COST OF ALL REQUIRED PERMITS, INSPECTIONS.
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 THE CONTRACTOR IS RESPONSIBLE FOR PROVIDED TO THE BUILDING RESPONDED PERMITS. IN CONTRACTOR IS RESPONSIBLE FOR PROVIDED AND THE WORK IN THE WORK.
 A COPY OF THE APPROVED PINAS SHALL BE KEPT IN A PLACE SPECIFED BY THE COVERNING AGENCY, AND BY LIW
SHALL BE ANAMABED. FOR INSPECTION AT ALL TIMES, IT IS THE CONTRACTOR FOR SHALL PROVIDED SHALL AND
CONSTRUCTION SETS REPLECT THE SAME INFORMATION AND PAYMENT FOR PINAS THE COVERNING AGENCY, AND BY LIW
SHALL BE ANAMABED. FOR INSPECTION AT ALL TIMES, IT IS TH

MANTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS—BULTS CHANGES, REVISIONS, ADDEMDA, OR CHANGES ORDERS.

THE CONTRACTOR IS TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWNS WITH ACTUAL DIMENSIONS, ROUTING AND CRECIUTS UPON COMPLETION OF CONSTRUCTION.

THE CONTRACTOR IS TO CONTACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANES BEFORE CONSTRUCTION BEGINS TO ORDER SERVICE, CONTAIN AND PY ALL FEES ASSICIATED WITH CONSTRUCTION, SCHEDULE INSTILLATION OF SERVICE, COORDINATE CONDUIT RUN/TERMINATION POINT AND OBTAIN ANY FIELD MATERIALS THAT MAY SE SUPPLIED BY THE UTILITY COMPANIES AND INSTALLED BY THE CONTRACTORS. THE CONTRACTOR SAME RE RESPONSIBLE FOR ME TEMPORARY REACHES SHORING THE FORM WORK AND THE

THE CONTRACTOR SHALL BORDWATE THE FINAL DIMENSION OF MAY TYPE OF BEAM LAYOUT WITH THE FOOTPRINT OF ECONTRACTOR SHALL BOOK DOWNER. THE FINAL DIMENSION OF ALL WORK JOURNE OF ROPING WARRANTES.

HE CONTRACTOR IS RESPONSEDE TO PROVIDE TEMPORARY POWER, WATER AND TOLLET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING ASSENCY.

HE CONTRACTOR SHALL MONITOR ALL EXISTING STRUCTURES DURING CONSTRUCTION.

HE CONTRACTOR SHALL GOORDINATE THE FINAL DIMENSIONS OF MAY TYPE OF BEAM LAYOUT WITH THE FOOTPRINT OF

27. THE CONTRACTOR SIMIL COORDINATE THE FINIL DIMENSIONS OF ANY TYPE OF BEAM LAYOUT WITH THE FOOTPRINT OF THE NEW EQUIPMENT BEFORE ORDERING ANY MATERIALS.

28. ALL MATERIALS AND COURMENT SHALL BE NEW AND IN SIME CONDITIONS PROR TO INSTALLATIONS, AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EXCH CLASS OR GROUP OF COURMENT.

29. ALL MATERIALS MIST BE STORDE IN A LEVEL AND DRY LOCATION AND IN A MANNER THAT WILL NOT SETRICIT THE PLOW OF OTHER WORK RELATED OR NOT TO THIS CONTRACT, ANY COURMENT OR MATERIAL STORAGE MIST MEET ALL RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL INSPECT THOROUGHY ALL MATERIALS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.

30. ALL MATERIALS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS.

31. EXCEPT FOR WARNING SOR'S SUCH AS "NO TRESPASSION" AND SIGNS THAT STATE OWNERSHIP AND EMERGENCY TELEPHONE NUMBERS, NO SIGN SHALL BE LOCATED ON THE TOWER.

31. ALL COMPINENT SHALL BE INSTALLED LEVEL AND PLUMB.

32. ALL COMPINENT SHALL BE INSTALLED LEVEL AND PLUMB.

33. ALL COMPINENT SHALL BE INSTALLED LEVEL AND PLUMB.

34. LOCATED FOR WARNING LEE INSTALLED LEVEL AND PLUMB.

35. ALL COMPINENT SHALL BE INSTALLED LEVEL AND PLUMB.

36. EXCEPT FOR WARNING LEE INSTALLED LEVEL AND PLUMB.

37. LEVEL BE INSTALLED FOR THE SITE, THE CONTRACTOR SHALL INSPECT THE EDISTING COMPOUND OR BUILDING AND DETERMINE THE EXTENT OF DESTRUCTIORS.

BEFORE BEGINNING MICK AT THE STIE, THE CONTROLOR SYALL INSPECT THE EXISTING COMPOUND OR BUILDING AND DETERMINE THE EXTENT OF DESISTING FINISHESS, SPECIALIES, EQUIPMENT AND OTHER TIESS WHICH MIST BE RELOYED AND REINSTALLED IN GROBE TO PERFORM THE WORK UNDER THIS CONTRACT. THE CONTRACTOR MUST VERBY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STATTING WORK, NO EXTEND CHAPGE OR COMPENSIONS HAVE BE ALLOWED DUE TO DEFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAININGS, ALL GOSCREPANCES SHALL BE CALLED TO THE ATTENTION OF THE PICKNEER AND SAUL BE RESOLVED BEFORE PROCEEDING WITH THE WORK, ALL WORK SHALL BE PERFORMED IN A WORKGUARLIKE MANNER IN ACCORDANCE WITH ACCESSION DISCISSIONAL BEACHES.

with accepted construction practices.

By Submitting a BID for this work, the contractor acknowledges that he has thoroughly reviewed and understood the construction documents, writed the site and is familiar with the conditions encountered. AT THE SITE.

AT THE STIE.

THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPDISATION BY REASON OF ANY MATTER OR THING WHICH SUCH THE CONTRACTOR WIGHT NOT HAVE FULLY INFORMED HIMSELF PROR TO BIDDING. NO PLEA OF KNORANCE OF COMDITIONS THAT EXIST, OR OF DIFFICULTIES THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WOOK 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 CONTRACT

DOCUMENTS.

TO DIDERSTOOD BY THE OWNER THAT THE CONTRACTOR IN SUBMITTING HIS BID, WARRANTS THAT HE HAS CAREFULLY EXAMINED THE SITE OF THE PROJECT TO ACQUANT HINISELF WITH THE SURROUNDING PROPERTIES, THE MEANS OF APPROACH TO THE SITE, THE CONDITIONS OF THE ACTUAL JOB SITE, THE FACILITIES FOR DELIVERING, STORING, 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 DESTING UNDERSOLUND UTLITIES HAVE NOT BEEN YESPIED BY THE OWNER OR ITS REPRESENTATIVE. 
THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UNDERGROUND UTLITIES LOCATED WITHIN THE LIMITS OF 
CONSTRUCTION AND ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED THE 
CONTRACTOR FALURE TO LOCATE ALL UNDERGROUND UTLITIES BEFORE COMBENIONING WORK. 
SHOULD ANY EPROR OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR BEFORE 
PROCEEDING WITH THE WORK MUST HAVE MADE IN UNCERTIMITY OR WITH INSUFFICIOR! DRAWINGS. 
THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEGUFEMENTS AT 
THE SITE BEFORE OFFICE GROTPING ANY MATERIALS OR DOING MY WORK NO EXTRA CHARGE OR CONSIDERATION SHALL BE 
ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION 
ORNAMINGS. ANY DISCREPANCY IN DIMENSIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ENGREE AND THE 
OWNER REPRESENTATIVE FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED 
AREAS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE 
OWNER OR ITS REPRESENTATIVE.

OWNER OR ITS REPRESENTATIVE. TRADE, PRODUCT NAMES OR MANUFACTURER'S NAMES OR CATALOG NUMBERS AND INDICATIONS OF EXISTING PRODUCT

OWNER OR ITS REPRESENTATIVE.

TRUE, PRODUCT NAMES OR MANUFACTURER'S NAMES OR CATALOG NUMBERS AND INDICATIONS OF DESTING PRODUCT TYPES SHOWN ON THE DRIWNINGS ARE BELIEVED TO BE ACCURATE. IF THEY ARE DISCOVERED TO BE INACCURATE, NOTEY ENGINEERS MANEDATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.

PROPERTY OF STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGES WHICH MAY OCCUR DURING CONSTRUCTION, ANY DAMAGES TO NEW OR DISTING SURFACES, STRUCTURES OR BOUPHART SHALL BE MANEDATELY REPAIRED OR REPLACED TO THE SATISACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE COST OF REPAIRING OR REPLACING ANY DAMAGES AREAS.

THE COST OF REPAIRING OR REPLACING ANY DAMAGES AREAS.

THE COST OF REPAIRING OR REPLACING ANY DAMAGES AREAS.

THE CONTRACTOR SHALL TAKE ALL PRECONTROMEY MESSURES AND EFFORTS TO PROTECT THE STRUCTURAL INTEGRITY OF DISTING STRUCTURES. WHEN WORKER IS PREVIOUSED IN THE WOMIT'O'OF DISTING STRUCTURE, THE STRUCTURAL INTEGRITY OF DISTING STRUCTURES. WHEN WORKER IS PREVIOUSED IN THE WOMIT'O'OF DISTING STRUCTURE, THE STRUCTURAL INTEGRITY AND STABILITY SHALL BE MONTORED AT ALL TIMES DURING EVERY PHASE OF THE CONTRACTOR SHALL BE INDEPTINED ON DISTINGED ON DESTROYED, AS JUDGED BY THE OWNER OR OWNERS' REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EMPRISE UNDER THE SUPPRISE OF A LICENSED LAND SURFACES.

THE COST OF ROTECT ON THE PLANS.

14. WHERE MOICATED ON THE PLANS, THE CONTRACTOR SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.

15. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE—CROWND STRUCTURES AND/OR UTILITIES BURDED ON PART FOR ANTENNAME SURFACES.

16. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES AND/OR UTILITIES HERE AND ADDRIVED ON THE WORK SHALL BE BELIEVED TO DIST IN THE WORKING ARE DOCKT LOCATION OF MICH MICH MAY PROVIDE LOCATION OF SURFACES. THE CONTRACTOR IS WARNED THAT THE EVALT OR EVEN APPROXIMATE LOCATION OF DISTABLES AND PART FOR ANTENNAME OF A PLANS.

16. ALL EDISTING ACTIVE SEWER, WATER GAS, ELECTRIC, AND OTHER U

MAINTAIN HOW FOR ALL EXISTING UTILITIES.

THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE SURUBBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

PROTECT FINISHED SURFACES INCLUDING JAMBS AND HEADS OF OPENINGS USED AS PASSACEIVA'S THROUGH WHICH EQUIPMENT AND MATERIALS WILL PASS.

PROVIDE PROTECTION FOR EQUIPMENT ROOM SURFACES PROR TO ALLOWING EQUIPMENT OR MATERIALS TO BE MOVED OVER SUCH SURFACES. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.

23. MAINTAIN FINISHED SURFACES CLEAN, UNARMED AND SUITABLY PROTECTED UNTIL JOB SITE IS ACCEPTED BY THE

OWNER.

2. 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 MAY ELECT TO USE A THIRD PARTY CONTRACTOR TO PERFORM THE REPAIRS ALL EXPENSES ASSOCIATED WITH THE REPAIRS AND REPLACEMENTS SHALL BE PAIR BY THE GENERAL CONTRACTOR SELECTED FOR THI

AL TIME REQUIRED TO SECURE REPLACEMENT AND MAKE REPAIRS WILL NOT BE CONSIDERED BY THE OWNER TO AN EXTENSION IN THE CONTRACT TIME FOR COMPLETION.

ACCESS:
USE MOST DIRECT ROUTE FROM PUBLIC STREET AS AGREED TO BY COMPOUND OR BUILDING OWNER. FOR ACCESS TO AN EXISTING BUILDING HITEROR, USE LOADING DOCK AS AGREED TO BY BUILDING OWNER.
COORDINATE WITH SITE OWNER CONSTRUCTION SCHEDULE & SITE ACCESS. ENSURE THAT THE OWNER OF PARENT PARCEL IS NOTIFIED IN WRITING 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, INTERREPTION OF ANY MECHANICAL AND/OR ELECTRICAL SERVICES, IMPERAL DELIVERIES AND STORAGE, STAGING AREA, CRAME LIFTS WITH THE OWNER PROPE TO THE START OF THE WORK.

CONTRACTOR SHALL COORDINATE WITH AN OWNER REPRESENTATIVE, THE TEMPORARY REMOVAL OF FENCE, LANDSCAPPING & ANY EXPECTED DAMAGE OF ACCESS ROUD OR ADJACENT REPAIR OF PROPERTY PRIOR TO COMMENCING THE WORK.

THE CONTRACTOR SHALL COORDINATE WORK HOURS & STAGING AREAS WITH OWNER.

CONTRACTOR TO NOTIFY PROPERTY OWNER OF CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION

1.4 STE MANTENANCE

1. REMOVE STANING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS TO THE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY AND THE MATERIALS FROM NEW AND EXISTING SURFACES TO THE MATERIALS FROM NEW AND EXISTENCE TO THE MATERIALS FROM NEW AND EXISTENC

REJOVE STAINING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES MANEDIATELY, REJOVE HAZARDOUS ACCUMULATIONS OF DEBRIS PROMPILY, AT LEAST DAILY, CONFINE DUST PRODUCING OPERATIONS DURING CUTTING, DRILLING, PARTING AND FINSHING. THERE SHOULD BE NO OVER SPRAYING PART IN PARGING AREA, VACUUM MANEDIATELY AFTER COMPLETION.

THERE SHALL NOT BE ARM CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM, UNLESS OTHERWISE ASSECT UPON WITH THE OWNER. NOISE SHOULD BE KEPT TO A MINIMUM THROUGHOUT CONSTRUCTION.

NOISE AND EXISTING BUILDING STRUCTURE VIBRATION CENERATED BY CONSTRUCTION PROCEDURES, EQUIPMENT, TOOL AND OPERATIONS ARE TO BE KEPT TO A PRACTICABLE MINIMUM. WHERE USE OF HIGH NOISE LEVEL EQUIPMENT IS UNAVOIDABLE, AND CAN BE HEARD, CONFINE TO HOURS BEFORE 7 AM. AND AFTER 6 P.M. MONDAY THROUGH FRIDAY OR AS ASSECTED TO BY BUILDING OWNER.

OWNORMABLE, AND CAN BE NEARLY, OWN-RE TO HOURS BECKE? 7 AM. AND AFTER 6 P.M. MORDAY THROUGH FROMY
OR AS ARRESTO TO BY BULLING OWNER.
THE CONTRACTOR IS TO PROVIDE PORTIABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2 ABC
WITHIN 75T FOR TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
THE CONTRACTOR IS RESPONSIBLE FOR MANTANING A NEAT AND ORDERLY STIE, YARD AND GROUNDS, REMOVE AND
DISPOSE LEGALLY OFF STIE ALL RUBBERS. WASTE MATERIALS, LITTER, AND ALL FOREIGN SIRSTANCES, REMOVE
PETROPHENICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED
SIRECASE.

surface. At project completion, remove temporary services, construction equipment, tools and facilities, mockups, TEMPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS, 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

NEAT, ORDERLY CONDITION, READY FOR USE. LEAVE ROOF AREAS, PIPE SPACES AND OTHER SPACES CLEAN AND FI FROM DEBRIS ON A DALY BISS.

THE SITE AND/OR BUILDING SECURITY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ORDER TO PREVENT UNAUTHORIZED PERSONS FROM EMIEBING THE PREMISES, EXISTING AND NEW EQUIPMENT AND MATERIALS REMAIN THE CONTRACTOR'S RESPONSIBILITY AT ALL TIME DURING CONSTRUCTION.

THE TERMAT'S INGRESS AND EGRESS OF THE SITE AND/OR BUILDING SHALL BE MAINTAINED THROUGHOUT

CONSTINUTION.

THE CONTRACTOR SHALL TAKE ALL NEASURE 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.

TIMEORAY FACILITIES
THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND LIGHT ARE NOT AVAILABLE AT THIS SITE, WHEN
THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND LIGHT ARE NOT AVAILABLE AT THIS SITE, WHEN
PERMANENT POWER IS ESTABLISHED, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK
ONLY, PROVIDED THAT ELECTRICAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE
USCONNECTED AND PROPERTY STORED DURING NON-WORKING HOURS.
THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE
PROPERTY OWNER OR GOVERNING AGENCY.

2.— DEMOLITION AND EXISTING STRUCTURAL ALTERATION
2.1 DEMOLITION SPECIFICS
1. GENERAL CONTRACTOR IS TO DEMOUSH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED
FOR DEMOLITION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE DISPOSAL OF
FORDING THE MATERIAL OF THE DISPOSAL OF

COUPMENT & MATERIALS.
SHERIL CONTRACTOR IS TO EXERCISE UTMOST CARE DURING DEMOUTTION AND PROMPTLY INFORM THE ENGINEER OF MATERIAL CONTRACTOR IS TO EXERCISE UTMOST CARE DURING SHOWN IN THESE PLANS PROOF TO PROCEEDING WITH THE

WORK.
GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SHORING, BRACING, PROMIDING LATERAL SUPPORT, AND FOR
MANTANING THE INTEGRITY OF THE EXISTING STRUCTURE DURING ALL PHASES OF THE DEMOLITION AND CONSTRUCTION
AND SHALL PROVIDE, IF REQUIRED, SIGNED & SEALED SHOP DRAWINGS, BY A REGISTERED PROFESSIONAL ENGINEER,
FOR THE SHORING OF ALL WALLS, BEAMS, SLABS, ROOF JOISTS, OR OTHER ELEVALED STRUCTURAL LIEMS, THAT ARE

NAMES THE SUPPORT BELOW NOTED FOR DENOLITION.

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

2. CUTTING, REPAIRED.

1. DO NOT DRILL OR CUT EXISTING FLOOR JOSTS, BEAUS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS SPECIFICALLY INDICATED, DRILL SLABS WHERE APPROVED, COME DRILL CIRCULAR OPENINGS THROUGH CONCRETE SLAB. LINE ORBLE FOR RECTANGULAR OPENINGS, MAKE OFFENINGS OF PROPER SIZE FOR CONDUIT, DUCTS, PIPES AND OTHER ITEMS PASSING THROUGH OPENINGS, MAKE ALL NEW HOLES OR OPENINGS BE WEATHER TIGHT OR FIRE SAFE AS REQUIRED BY LOCAL BULLDING COOSES & DORINANCES.

2. PREPARE, SUBMIT AND RECEIVE APPROVAL OF SLEEVES AND OPENING DRAWNESS BEFORE LOCATING SLEEVES AND OPENINGS IN NEW CONSTRUCTION AND BEFORE DRILLING EXISTING STRUCTURE. SHOW EACH OPENING AND SLEEVE IN THE DITTRE PROJECT.

THE ENTIRE PROJECT.

SEAL MATER THAT AND PROTECT WITH FIRE PROOFING MATERIALS NEW SLEEVES AND OPENINGS THROUGH ROOFS, FLOORS AND INVERTICAL CHASES AS REQUIRED BY CODE AND INJUSTRY STANDARDS. ALL FLOOR AND WALL PENETRATIONS SHALL BE SEALED WITH FIRE RETARDANT COMPOUND MEETING UL CAUSO45.

THE CONTRACTOR SHALL PROMOE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH

THE CONTRACTOR SHALL PROMDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLES.

WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK UNDER THIS CONTRACT AND A NEW PINSH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MAKEN ADJUGENT EXTING SURFACES.

EXCEPT IN SPACE WHERE NO WORK 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 DEPORTURE AND MILLIANT.

FURRING IS INDICATED. ALL CONCRETE AND MASONRY PENETRATIONS SHALL BE DONE USING ROTARY ACTION ONLY (NO HAMMERING ACTION).

THE CONTROLLE AND SCORET PEREINVENIES SHALL BE DUNE USING KOUNKY ACTION ONLY (NO HAMMESING ACTION).

\*\*PARIS ARE TO BE TAKEN PROR TO DRILLING.

CORE LOCATIONS IF REQUIRED SHALL BE CHOSEN SO AS TO AVOID CUTTING ANY REMFORCING BARS. FRESTOP FLOOR

OR WALL PENETRATION WITH TWO HOUR RATED SEALANT TO MEET UL CAUSOAS. PROVIDE WEATHERPROPRING OF ANY

ROOF PENETRATIONS.

FEPAIR, PATCH, FRISCH AND/OR RETINESH AS APPLICABLE TO MATCH ADJACENIT EXISTING FINISHES THOSE DOSTING SURFACES DIMANGED OR NEW PROPOSED SURFACES DIRBING PERFORMANCE OF THE WORK UNDER THIS CONTROCT, WHERE COMDUTES, DUCTS, PIPES AND SMALLAR ITEMS ARE SHOW TO BE INSTALLED IN EXISTING WALLS OR PARTITIONS. HEALTY CHASE THE WALLS OR PARTITIONS INSTALL THE THESE AND PATCH THE WALLS OR PARTITIONS TO MAKE THE INSTALLATION NOT DISCERNBLE IN THE FINISHED WORK.
WHERE A NEW CUTTING IS NOT SCHEDULED, INSTALL NEW CONDUITS AND PIPES IN EVERY CASE, AND NEW DUCT WHERE POSSIBLE ABOVE EXISTING REDINGE EXISTING CEUTING AS INCESSARY, AFTER INSTALLATION OF CONCEALED WORK, REMISTAL REMOVED CEUTING AND RETINESH TO MATCH ADJACENT UMPROVED CEUTINGS.

REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EDISTING RUST NO APPLYING.

3 - SITE MORK
3.1. CLEARNIC AND GRUBBING
1. CLEARNIC AND GRUBBING
1. CLEARNIC OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR THE CONSTRUCTION OF THE FACILITY SHALL BE REPAIRED OR REPLICED AT THE CONTRINCTOR'S DEVIALE BE REPAIRED OR REPLICED AT THE CONTRINCTOR'S DEVIALE BE REPAIRED OR REPLICED AT THE CONTRINCTOR'S DEVIALE BE REPAIRED ON REPORTED AT THE CONTRINCTOR SHALL: PROTECT DUSTING TREES, VEGETATION, LANGSCAPING MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARNIC OR REMOVAL, WHICH MIGHT BE COMMACD BY CONSTRUCTION ACTIMITIES.
3. TRAIN DUSTING TREES AND VEGETATION AS RECOMMENDED BY THE ARBORDST FOR PROTECTION DURING CONSTRUCTION.
4. CLEAR AND GRUB STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IMPROVEMENT.

CLEAR MID GROB STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE MA STREP AND STOOPHE TOPSOIL.
PROTECT TEMPORARILY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.
MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.
REMOVE TEMPORARY EROSION CONTROL, SILVATION CONTROL AND DUST CONTROL.
REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS.

2 DICANATION AND BACKFUL.

ALL SUITABLE 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 GOVERNING AGENCES PRIOR TO uspasal. All site fill shall meet selected fill standards as defined by the owner's representative on the

GS OR GEOTECHNICAL REPORT RECOMMENDATION THIS PROJECT INCLUDES: N, TRENCHING, FILLING, COMPACTING AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS, ACCESS

ALL MATERIALS FOR SUBBASE, DRAINAGE FILL, BACK FILL AND GRAVEL FOR SLABS, PAVEMENT AND OKOMENTS.

MPROVEMENTS.

ROCK EXCAVATION WITHOUT BLASTING.

SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.

REMONAL AND LEGAL DISPOSAL OF EXCAVATED MATERIALS AS REQUIRED.

FILL LAYERS THAT REQUIRE COMPACTION SHALL HAVE A MAXIMUM THROUGHS SO F6 INCHES.

THE COMPACTING UNDER STRUCTURES, BUILDING SLABS, STEPS, PAVEMENT AND MALMANS SHALL BE 95% MAXIMUM DENSITY, ASTAIL D-1557, TESTED IN EACH OF THE COMPACTING LAYERS AT EACH COMPACTING SITE, OR AT LEAST IN

DEISTLY, ASTAL D-1557, TESTED IN EACH OF THE COMPACTING LAYERS AT EACH COMPACTING SITE, OR AT LEAST IN EACH LOOKUP PER YARDS OF MATERIAL VOLUME.

THE COMPACTING UNDER LAWINS OR LIMPAVED AREAS SHALL BE 85% MAXIMUM DEISTLY, ASTM D1557.

THE COMPACTING UNDER LAWINS OR LIMPAVED AREAS SHALL BE 85% MAXIMUM DEISTLY, ASTM D1557.

THE COMPACTING LAYERS SHALL NOT DOCED B ROLES.

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

ALL TRENCH EXCAMATIONS AND ATTREASMED SHEETING AND SHORMING SHALL BE DONE IN ACCORDANCE WITH GSHAL RECOLLATIONS FOR CONSTRUCTION.

HERE UNSTABLE SOLL CONDITIONS STILL UNE THE GRUBBED AREAS WITH GEOTEXTILE FABRIC (MIRAFI 500X OR APPROVADE DE COUNTACH) PROBLED ON STILL.

THE USES OF EXPLOSIVE IS PROHIBITED ON STILL.

ALL ECCANATION ON WHICH CONORETE IS TO BE PLUCED SHALL BE SUBSTANTIAL HORIZONTIAL, UNDISTURBED AND BE FREE FROM LODGE MATERIAL, AND EXCESS GROUND WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED IF REQUIRED.

PROVIDED IF REQUIRED.

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

14. BACK FILL SHALL USE APPROVED MATERIALS CONSISTING OF LOAM, SANDY CLAY, SAND, GRAVEL OR SOFT SHALE AND SHALL BE FREE FROM CLOOS OR STONES OVER 2 1/2.

15. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACK FILLING, ALL EXCHANDIONS SHALL BE CLEAN OF UNSUITABLE MATERIALS SUCH AS VECETATION, DEBRIS, TRASH AND MY FOREIGN

JACONDAY.

THE CONTRACTOR IS RESPONSIBLE FOR MANTAINING POSITIVE DRAINAGE AWAY FROM BUILDING OR EQUIPMENT ON THE SITE AT ALL TIMES. SILT AND EXISION CONTROL SHALL BE MANTAINED ON THE DOMESTIERAN SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADMAGED THE PROPERTY WILL BE ORDERECTED AT THE CONTRACTOR'S EXPELSE SUPPLIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE CONTRACTOR'S SHALL BE RESPONSIBLE FOR DEMATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE

COURSE UP MUNOS.

ANY DRAIN, FIELD TILE OR DRAINAGE STRUCTURE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS
ORIGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE RECORD DOCUMENTS.

ORIGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE NECOND COUNTRIES.

3.4 EROSON CONTROL

1. CONTROL SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CODES AND ORIGINATORS TO PROVIDED THE DIBBNORIENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SLIT IN STEEMAS AND DRAINES PAIRS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SLIT FENCE, STRAW BALES, SEDIMENT BARRIERS AND CHECK DAMS.

2. EROSION CONTROL MEASURES MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON DRAWNINGS WHERE DETERMINED

EROSON COMINGUE BEDAVINGS AND TO INSCRIPT THE PROPERTY OF ACTUAL SITE CONDITIONS.

PROOF TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY

PROOF TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY

NECESSARY BY ACTUAL SITE CONDITIONS.

PROOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAYS. THIS MAY REQUIRE PERSONIC TOP DRESSING WITH STONE AS CONDITIONS DELIMAD, REPARA MID/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENTS. ALL MATERIALS SPILLED, DROPPED WIGHED OR TRACKED FROM WEIGHT OF STRUCTURES USED TO TRAP SEDIMENTS. ALL MATERIALS SPILLED, DROPPED WIGHED OR TRACKED FROM WEIGHT OF STRUCTURES USED TO TRAP SEDIMENTS. ALL METERIALS SPILLED, DROPPED WIGHT OF THE PROVIDED OF THE REPORT OF ANY STRUCTURES USED TO TRAP SEDIMENTS. ALL PERMITTER PROSON CONTROL DEVICES AND STRUMANTER MANUFACIENT DEVICES SHALL BE INSTITLED PROVE TO MAY OTHER CONSTRUCTION.

ALL SLIT BARBERS MUST BE PLACED AS ACCESS IS OBTAINED DURBING CLEARNS, NO GRUINNG SHALL BE DONE UNTIL SLIT BARBERS SHALL BE PLACED AS ACCESS IS OBTAINED DURBING CLEARNS, NO GRUINNG SHALL BE DONE UNTIL SLIT BARBERS SHALL BE PLACED AS ACCESS IS OBTAINED DURBING CLEARNS, NO GRUINNG SHALL BE DONE UNTIL SLIT BARBERS SHALL BE PLACED AS ACCESS IS OBTAINED DURBING CLEARNS, NO GRUINNG SHALL BE DONE UNTIL SLIT BARBERS SHALL BE PLACED AS ACCESS IS OBTAINED DURBING CLEARNS, NO GRUINNG SHALL BE DONE UNTIL SLOPES.

THE LOCATION OF SOME EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM WHAT IS SHOWN ON IT HE PARKED PLACE OF CONTROL DEVICES OF TRANSPORT PLACES OF THE PLACE OF THE PARKED PLACE OF THE PLACE OF THE PARKED PLACE OF THE P

UTILIZED FOR EROSION CONTROL.

11. ALL OPEN SIMILES MUST BE GRASSED, AND RIP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION. ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHDED MIND VEGETATED WITHIN 1/7) DAYS OF CONSTRUCTION.

12. SEEDING AND MULCIANG OF THE STE WILL BE ACCOMPLISHED AS SOON AS POSSBLE AFTER COMPLETION OF THE STE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MANTHANING AN ADEQUATE COVER OF VEGETATION OVER THE STE FOR A PERSON OF ONE YEAR.

13. SEEDIED PREPARATION. AREA TO BE SEEDED SHALL BE LOSS MID FINBLE TO A DEPTH OF AT LEXES 3". THE TOP LAYER SHALL BE LOSSBUED BY RANGIN, DISSINGS OR OTHER ACCEPTABLE MENS BEFORE SEEDING OCCURS. IN LIEU OF SOIL TEST RESULTS, APPLY SO LBS. OF DOLOMING LIMISTIONE AND 25 LBS. OF 10-10-10 FERTILIZER PER 1000 SF. HARROW OR DISK LIMISTIONE AND PERSON TO A LIFET DAY. arrow or disk limestone and fertilizer into soil to a depth of at least 3" on the slopes flatter that

3:1.
SEDIMG: APPLY 5-6 LBS. PER 1000 SF. OF KENTUCKY 31 TALL FESCUE. APPLY SEED UNFORMLY WITH A CYCLONE
SEDDED DRILL CULTIPACKER SEDDER OR HYDROSEDDER (SLURRY MICLUDES SEDIS AND FERTILIZER RECOMMENDED ON
STEEP SLORES ONLY) ON MOST, FROM SEDDED. MANIAMA SEED DEPTH SHOULD BE KY MHEN USING THE
HYDROSEDER METHOD. RROGATE UNTIL VEGETATION IS FRIMLY ESTABLISHED IF SOIL MOSTITRE IS NOT SUFFICIENT TO

HTMOSELER MELTIOUS, ROBUST WHILE YELLIGIDITY IS FIRMED CONTINUED TO THE TOTAL OF THE TOTAL SUPPORT ADEQUATE GROWTH.

5. IN CONCENTRATED AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND LENGTH OF 10 FEET OR GREATER, AND CUTS AND FILLIS WITHIN STREAM BUFFER, SYALL BE STABILIZED WITH THE APPROPRIATE ERGSON CONTROL MATTEN, OR BUNNETS OF FRAMEL THIN, HAD, SOUND, DURABLE, UNFORM IN QUALIFY, AND FREE OF ANY DETRIBETIAL QUANTITY OF SOFT, FRAMEL, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI OR OTHER DELETEROUS SUBSTANCES.

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

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

RECOMBINATION.

THE GROUNG TOLERANCE FOR FILL UNDER BUILDING SLABS SHALL BE ±½ INCH MEASURE WITH 10 FT STRUGHTEDGE.

THE GROUNG TOLERANCES OUTSDE BUILDING LINES SHALL BE ±1 INCH FOR LAWKS, UMPAVED AREAS AND WALKS; AND ±½ INCH UNDER PAVENIENT. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND RE-GRADING ROADWAY AND/OR FIELD FOLLOWING THE

INSTALLATION OF UTILITIES.

MY FILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY

ANY FILS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPER BEDICIED INTO THE EXISTING SLOPE.

THE CONTRACTOR SHALL TAKE SPECIAL CARE TO RE-GRADE THE SITE AND MONITOR THE STABILITY OF EMBANGMENT STEEPER THAN 1:3 AT ALL TIME DURBNG CONSTRUCTION.

PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANNING OR OTHER SUTFACING ON SUB-GRADE SURFACING ON SURFACING ON SURFACING SHALL BE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS, REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUB-GRADE HERE SUCH DIAMAGE IS DUE TO THE CONTRACTOR OPERATIONS. DAMAGED GRAVE SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE THE SAME

CONCRETE

— CONCRETE

1. CENERAL

DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES:
ACI 301 = SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 344.1R - RIBER REINFORCED CONCRETE (IF SPECIFIED)
ACI 344.2R - RIBER REINFORCED (SPECIFIED)
ACI 345.2R - RIBER REINFORCED (SPECIFIED)
ACI 345

ASTM C 150, TYPE I ASTM A 185 & A 615 ASTM C 33 DRINKABLE NON-CHLORIDE CONTAINING NORMAL WEIGHT AGGREGATE: ADMIXTURES:

\* ADMATURES:

\*\* PREPRIORS REINFORCEMENT:

\*\* PREPRIORS REINFORCEMENT:

\*\* REINFORCHIS DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACT 315.

\*\* REINFORCHIS STEEL SHALL CONFORM TO ASTN A 615, GROVE 60, DEFORMED UNLESS OTHERWISE NOTED, WELDED WIRE FABRIC SHALL CONFORM TO ASTN A 185 WELDED WIRE FABRIC UNLESS OTHERWISE NOTED, SHALL BE CLASS

\*\* AND ALL HOOKES SHALL BE STANDARD, UND.

\*\*THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE.

\*\*ON PENAMENCE.\*\*

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

CONCRETE EXPOSED TO EARTH OR WEATHER:

# 64 AND LARGER: 2.M.

# 55 AND SAMLER AND WHY: 1 ½ M.

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

SUBS AND WALL: X M.

BEANS AND WALL: X M.

BEANS AND COLUMNS: 1 ½ M.

A CHAMERE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:

SECTION 42.4.

REPAIR AND COLUMNS: 1 ½ M.

REPAIR SAMD COLUMNS: 1 ½ M.

REPAIR SAMD COLUMNS: 1 ½ M.

BEANS AND COLUMNS: 1 ½ M.

BEANS AND

APPROVIL WHEN DRILLING HOUSS IN CONCRETE.
CORRING COMPONIONS SHALL CONFORM TO ASTIM C-309.
ADMOTURE SHALL CONFORM TO THE APPROPRATE ASTM STANDARD AS REFERENCED IN ACI-301.
DO NOT WILD OR TACKWELD REINFORCING STEEL.
ALL DONELS, MICHORS BOUTS, EMBEDMENT STEEL, ELECTRICAL CONDUITS, PPE SLEEVES, GROWINDS AND ALL OTHER
EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
LOCATE ADDITIONAL CONSTRUCTION JUDIUS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO THE ENGINEER.
PLACE REPROPORTIONAL COLD BETH WHEN BEHOMS IS REQUIRED.
PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANE OF
WEAVIESS. VIRIALE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE MERATOR TO TRANSPORT CONCRETE
THROUGH CHUTES OR FORMATIONER.

THROUGH CHUTES OR FORMINGEN.

18. DO NOT PLACE COMPRETE IN POWING WATER, ICE, OR ON FROZEN GROUND.

19. FOR COLD WEATHER AND HOT WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHAUGHDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DOWN SIMMINUM.

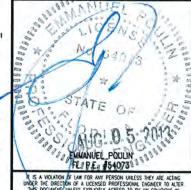
20. FIBER REINFORCED CONCRETE MIDL IF SPECIFED, SHALL INCLUDE 1 ½ LBS OF FIBER PER CUBIC YARD.





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1 05/03/13 REVISED PER COMMENTS 0 10/30/12 ISSUED FOR PERMIT REV DATE DESCRIPTION



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTE THIS, DOCUMENT, UNLESS EXPLICITLY AGREED TO BY AW SOLUTIONS IN WRITING, AN SOLUTIONS, INC. DISCLAIMS ALL LUBLITY ASSOCIATED WITH THE REUSE, ALTERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SFL61\_2

539 NW 17TH AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE

**SPECIFICATIONS** 

SHEET NUMBER

SP1

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- ELECTRICAL GENERAL
THE CONTRICTOR SHALL PROMDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION
TOOLS, ETC., FOR THE INSTALLATION OF COMPLETE AND PROPERTY OPERATING SYSTEMS.
INSTALLATION SHALL COMPLY WITH ALL APPLOURSE LAWS AND OPENHANCES OF ALL ANTHORITIES HAWNG JURISDICTION
AND WITH ALL ASSOCIATED UTLITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS. INSTALLATION WILL ALSO
COMPLY WITH THE LATEST EDITIONS OF ALL COORS AND STANDARDS OF THE ENTITIES LISTED ON SHEET SP1, NOTE 2.
THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE. THE MOST STRANGANT CODE WILL APPLY IN THE CASE OF DISCREPANCES ON DIFFERENCES IN THE CODE
EQUIREDLENTS.

THE CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS AND PAY ALL REQUIRED FEES.

RECORD DRAWINGS: MANTIMA A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND

INSTALLED, RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE
CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.

ALL BROCHURES, OPERATION MANULAS, CATALLOS, SHOP DRAWINGS, SPECIFICATIONS, ETC., SHALL BE TURNED OVER

TO THE CARBER AT THE COMPLETION OF THE PROJECT.

OURANITEE, WARRANTHY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC., FOR A PERIOD

OF ONE YEAR FURRISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKMASHIP WILL BE

REPARED/REPULCED MANDIATIETY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY. IF,

AFTER THERY (30) DAYS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER FOR PERIOD OF WARRANTY. IF,

AFTER THERY (30) DAYS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER FOR PERIOD OF WARRANTY. IF,

AFTER THERY (30) DAYS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER FOR PERIOD OF WARRANTY. IF,

AFTER THERY (30) DAYS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER FOR PERIOD OF WARRANTY. IF,

AFTER THERY (30) DAYS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER FOR PERIOD OF WARRANTY. IF,

AFTER THERY (30) DAYS THE CORRECTIONS OF BRICKHARDS OF THE WORK.

THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, AS RECESSARY.

DO NOT INTERRUPT DOSTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER OF THAT SERVICE AND WRITTEN

PERMISSION OF THIS INSTALLATION'S CARREDER.

CHANGES: NO ADDITIONAL COSTS FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANGES OR MODIFICATIONS MADE

CHANGE ORDER. CHANGE ORDER.

DRAWINGS: LECTRICAL DRAWINGS ARE DUGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED.

DISCREPANCIES: DISCREPANCIES ON THESE PLANS, SPECIFICATIONS, ETC., MUST BE IMMEDIATELY BROUGHT TO THE
ATTENTION OF THE ENGINEER.

SURVEY AND CONDITIONS: WIST THE JOB SITE PRIOR TO SUBMITTING BID, AND MAKE A SURVEY OF EXISTING
CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED. NO OTHER ALLOWANCES WILL BE GIVEN FOR THE SITE CO-operation: co-operate with other contractors and subcontractors on site. Arrange and execute WORK IN SUCH A MANNER AS REQUIRED FOR THE SATISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY WORK IN SUCH A MANNER AS REQUIRED FOR THE SATISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY ALL TRADES CONCERNED.

TELEPORARY POWER ARRANGE AND PAY FOR THE CARRER'S TEMPORARY POWER DURING CONSTRUCTION.

INSTALLATION SHALL COMPLY SPECIFICALLY WITH BIOMEDERING STANDARDS MANUL. ANY DEVATIONS SHALL BE

BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PROPE TO COMMENCIABIT OF MORK.

PROCUREMENT VERIFICATION: PROVIDE AN ITEMIZED CERTIFICATION TO THE PROJECT MANAGER THAT EQUIPMENT AND

RELATED HARDWARE MANE BEEN ORDIFERD WITHIN 24 HOURS OF MOTICE TO PROJECT.

THE SUBCONTRACTOR SHALL NOTEY AND ORTHIN INCESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE

COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS. Commendation whose on the AL Purity distribution princes.

General: Durbing and upon completion of work, arrange and pay all associated inspections of all electribol. Work installed under this contract in accordance with the conditions of the contract. Inspections required: as per the laws and regulations of the loom, and/or state associate hanno jurisdiction at the project site.

Unrisocition at the project site.

Inspection account: All required by the local and/or state associate hanno jurisdiction at the project site. Certificates: Submit all required inspection certificates to the carrier and utility. 4. CONTRICATES: SUBMIT ALL REQUIRED RESPECTION CONTRICATES TO THE CHARGE AND UTILITY.

11. JAMAGES, AND SUPPORTS

1. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HAROMARE SHALL BE ZINC COATED OR OF EQUIVALENT

CORROSSON RESISTANCE BY TREATMENT OR INNERDED! PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED

FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALWARZED.

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

DEPOLITION. THESE PAYMONES, STANCES SUPPORTS, COMES, O-CANNING, INCLUDED NO.S, ETC., AS INDICATED ON REQUIRED.

INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIAL, RACEMAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS 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 MAY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED. BY THE ENGINEER.

MISCELLAMEDUS SUPPORTS: PROMOE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS
AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.

ONE—HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH. UNIC-MULE STORMS SHALL NOT BE USED FOR CONDUITS DARGER HANN SYS WICH.

FOULDISHIES / WIREWAYS

FOURPHIET CHBINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED

SHEET STEEL, SHALL MEET OR EXCEED U. 50, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR

BETTER) OUTDOORS.

WIRETMAYS SHALL BE POXY-COATED (GRAY) AND INCLUDE A HINGED COMER AND RATED NEMA 1 (OR BETTER)

WINDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SOURCE BY 1-1/4 INCHES DEEP. 3. JUNCTION BOXES: JUNCTION BOXES SMUL BE A MINIOUM SIZE OF 4 INCHES SQUARE BY 1-1/4 INCHES DEEP.

11. GINERAL: PROVIDE ALL HOLES, SLEEVES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL DIAMAGED SURFACES. TO MATCH SURROUNDING SURFACES.

2. CONDUIT PENETRATIONS: SIZE CORE-ORLIED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF CORE-ORLIED, PROMOE SLEEVE IN MOUGH OPENING, SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH AROUND THE CONDUIT, PIPE, ETC. PATCH AROUND SLEEVE TO MATCH SUPPORTMENT SUPPORT OF THE STATE SURROUNDING SURFACE.

PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL.

MATER INTRUSION. PROVIDE PREPROOF MATERIALS FOR PENETRATIONS REQUIRING A RISE RATED SEAL. REFER TO

CUTTING AND PATCHING NOTES UNDER SECTION 1 — GENERAL.

IF ANY ROOFING TO WORK IS TO BE PEPSFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNER'S APPROVED

ROOFING CONTRACTOR TO PREVENT VOIDING ANY EXISTING ROOFING WARRANTIES, ANY DAMAGE TO THE EXISTING

ROOFING MEMBERIANE SHALL BE REPARKED MANEDIATELY TO ANDO INSUSTURE WITHISTON INTO THE BUILDING SHELL

CONTRAL PROVIDE ALL CUTTING, DRILLING, INTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS

INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF

THE CONTRACT DOCUMENTS.
REPAIRS: 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 CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.

MAIGHN. APPLICATION. IT SAND TO SAND THE TYPE WITH TYPE WHIN -2 INSULATION, 600 VOLT, COLOR CODED, USE SOUD CONDUCTORS

1. USE 98X CODUCTINTY COPPER WITH TYPE WHIN -2 INSULATION, 600 VOLT, COLOR CODED, USE SOUD CONDUCTORS

FOR WIRE UP TO AND INCLUDING NO. 8 AWG, STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8 AWG, VOLT

PERSONNE -TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SANLER, SOLDERLESS MECHANICAL

TERMINAL LUCKS FOR NO. 8 AWG, AND LARGER ALMINIAN CONDUCTORS SHALL NOT BE USED.

TRAINING LIUSE FOR NO. 36 AND AND LANGER ALUMINUM CONDUCTORS SHALL NOT BE USED.

NO BY, MC OR ROMEX CABLE SHALL BE PRIMITED.

EACH END OF EVERY POWER, GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABLED WITH COLOR—COOED

INSULATION OR ELECTROAL TAPE (S.M. BRAND, 1/2 NOT PLASTIC ELECTROAL TAP WITH UV PROTECTION, OR EQUIL).

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

ALL TE WARDS SHALL BE CLUT FLUSH WITH APPROVED CITTING TOOL REMOVE SHAPP EDGES.

ALL CONDUIT SIZES SPECIFED IN THIS DOCUMENT WERE DONE SO TRAINING INTO ACCOUNT THE USE OF COPPER

ALL COMMISSION SIZES SPECIFIED IN THIS DOCUMENT WERE DONE SO TAKING WITO ACCOUNT THE USE OF COPPER COMMUNICATIONS.

11.7. ELECTRICAL STRICE

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

2. SHORT CIRCUIT RATINGS. PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AWADER FAULT CURRENT.

3. CONTRACTOR TO VERYLY UTILITY CO. FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A MINIMUM ALL EQUIPMENT TO BE 10,000 AK).

4. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE ELECTRIC UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE NEW SERVICE AND PARKS ALL ASSOCIATED FEES.

5. DOINTPACTOR SHOULD SERVICE DISCONNECTION WHICH ALL ASSOCIATED FEES.

6. THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION WITH THE ELECTRIC UTILITY CONCENTS. OR ONLY, THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE ELECTRIC UTILITY.

7. LOCATION AND ARRANGEMENTS: DRAWNINGS INDICATE DUGGRAMMATICALLY THE DESIRED LOCATION OF EQUIPMENT, PRITURES, OUTLETS, ETC., AND ARE NOT TO BE SOLED. PROPER JUDGRAPH MUST BE EXERCISED IN THE DESCUTION TO ENSURE THE BEST POSSIBLE INSTALLATION.

PAREL AND DISTRIBUTION BOARD DEHIFICATION. SWITCHBOARDS, PANELBOARDS, TRANSFORMERS AND DISTRIBUTION SECTIONS SHALL BE IDENTIFIED WITH ENGRAPD. WHITE ON BLACK, LAMINATED, RIGOD PHENOLIC MAMEPIATES WITH 1/4 INCH CHARACTERS, SECURELY AFFIXED TO FACE OF CABINET.

INCH CHARACTERS, SECURELY AFFICED TO FACE OF CHARREL.

TELEPHONE SERVICE
GENERAL: INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RULES AND REGULATIONS.
THE CONTRACTOR IS RESPONSIBLE FOR MANING ARRANGEMENTS WITH THE TELEPHONE UTILITY RELATIVE TO A TIMELY
INSTALLATION OF THE INCOMING TELEPHONE SERVICES AND PAYING ALL ASSOCIATED FEES.

METALLIC COMDUIT OR TUBING FOR IT LINES SHALL BE BONDED TO GROUND ON BOTH ENDS.
THE LOCATION SHOWN FOR A TELEPHONE POLE OR CONNECTION TO THE TELEO DEBANG IS FOR CONCEPTUAL USE
ONLY. THE CONTRACTOR SHALL CORDINATE THE ACTUAL LOCATION WITH THE TELEPHONE UTILITY.

THE CHRISTIAN AND ADJUSTING

1. CORRECTION/REPUACHEMENT AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEPOCIENCIES AND REPUACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED

PRIMEE MINISTREE THE EXECUTION SHALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN CONDUCTORS: CONTINUED SHALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DESCONNECT SMITCH AND LOVO CENTER.

WHEN SITE POWER IS DERIVED FROM A 3—PHILSE SOURCE, LOVO READINGS WILL BE TAKEN AND RECORDED TO MAINTAIN A BILANCED LOVO AT THE PRIMARY SOURCE. RECORDS SHALL BE RETURNED TO THE OWNER'S

REPRESENTATIVE

11.1.10 RACEMAY STEIDAS / CONDUIT

11.1.10 RACEMAY STEIDAS / CONDUIT

11.1.10 RACEMAY STEIDAS / CONDUIT

11.1.10 RACEMAY STEIDAS / CONDUIT OR SCHEDULE 40 PVC CONDUIT BEFORE RISING ABOVE GRADE OR CONCRETE SUAB.

12.10 RISING CALVANIZED STEEL CONDUIT OR SCHEDULE 80 PVC CONDUIT OR SCHEDULE 80 PVC CONDUIT.

13.10 CONDUITS, WHEN SPECIFED, SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RODD CONDUIT.

13.1.10 LECTRICAL METALLE TUBING (BUT) OR RIGID, NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40, OR RIGID RIGID

LOUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VERRITION COURS OR FLEXIBILITY IS REDED.

PLUG AND CAP EACH END OF SPARE AND EMPTY COMDUITS AND PROVIDE TWO SEPARATE PULL STRINGS — 200 LB. TEST POLYETHYLENE CORD.

ALL CONDUIT BEIDS SHALL BE MINIMUM OF 24 INCH RADIUS.

ALL METALLIC RACEWAYS SHALL BE GOUNDED PER NEC.

THE CONTROTOR SHALL FELD VERFY 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.

PROFESSIONAL MANNER:

1.1.1 BEJOU GRADE

1. THIS SITE INCLUDES NEW CRITICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE WOINTY OF OTHER UNDERGROUND SERVICE DISCUSS AND EQUIPMENT SUPPORTS. THE CONTRACTOR SYMLL TAKE ALL NECESSARY PRECAUTIONS TO MODD SERVICE DISCUSTON THESE FACILITIES. THE CONTRACTOR SYMLL ALD CONTRACT ELECTRIC AND TELEPHONE, AND ALL OTHER APPROPRIET ADDICES PROOR TO EXCANATION AT THIS SITE.

2. PROOR TO EXCANATION, A UTILITY MARK OUT SYMLL BE ODNE TO LOCATE EDSTINE UNDERGROUNG UTILITIES. ALL UNDERGROUND UTILITIES MUST BE OLD THE OLD GRADE OUT OF THE CARBOET DURING THE SITE'S HAMDOFF.

3. ALL TRENCHING AND EXCANATION WITHIN EDSTING COMPOUNDS MUST BE PERFORMED BY HAND IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS. ANY OTHER METHODS OF DIGGING MUST FIRST BE APPROVED BY THE CONSTRUCTION MANAGER.

MANAGER.
ALL LOW VOLTAGE CONDUIT (600V OR LESS) SHALL HAVE A MINIMUM BURNAL DEPTH OF 24". ALL HIGH VOLTAGE CONDUIT (600V OR MORE) SHALL HAVE A MINIMUM BURNAL DEPTH OF 36". UNDERGROUND CONDUIT SHALL BE EINCASE ON REMPOREDE CONORETE IN AREAS OF VEHICLE TRAFFIC. CONCRETE EINCASEMENT SHALL BE 3" MINIMUM MALL ARQUINO AND BETWEEN COMOUNTS.
ALL BURRED COMOUNT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE. TAPE SHALL BE PLACED 12" ABOVE COMOUNT FOR EASY IDENTIFICATION.

LANDARI FOR EAST MACHINE PROJECT.

1. THE MAIN CROUT BREAKER 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 PROMOE AN ITEMIZED CERTIFICATION TO THE CARRIER OF ALL EQUIPMENT AND RELATED HARDMARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HIRS OF

THE MOTICE TO PROCEED.

ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LEBELED WITH ITS VOLVACE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACTY RATING AND BRANCH CIRCUIT ID MUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).

METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANAZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL SHA AND NEURA OS 1; AND BE RATED NEMA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (MP OR BETTER) OUTDOORS.

WEATHER-PROTECTED (MP OR BETTER) OUTDOORS SHALL MEET OR EXCEED NEMA OS 2, AND BE RATED NEMA 1 (OR BETTER) NDOORS OR WEATHER-PROTECTED (MP OR BETTER) OUTDOORS.

(CR BETTER) MILLORS SURVE SUPPRESSOR (TVSS)

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

2. THE AC POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SDE OF THE MANUAL TRANSFER SMITCH.

3. IN MARKETS WITH LOTHINING ZONE > OR = TO 4, RF TVSS DEVICE SHALL BE INSTALLED AT THE ENTRANCE TO THE SHELTER OR AS CLOSE AS POSSIBLE TO THE BITS CABINET FOR OUTDOOR SITES, TO PROTECT AGAINST LICHTINING AND TEXHSDEPT UNYTIMES.

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

13 — RF AND TOWER APPURTEMANCE INSTALLATION RELATED NOTES
13.1 COMMUN. CARLE REQUIREMENTS:
13.1 COMMUN. CARLE REQUIREMENTS:
13.1 COMMUN. CARLE REQUIREMENTS.
13.1 COMMUN. CARLES REQUIREMENT, AND MATERIALS NECESSARY FOR RECEIVING, INSTALLING, TESTING, AND ADJUSTING ANTENIA CARLES FROM THE ANTENIA TO THE COMMECTIONS AT THE BASE TRANSMISSION SYSTEM (BITS).
THIS SHALL INCLIDE ALL EQUIPMENT SHOWN OR REQUIRED FOR A COMPLETE OPERATING STEEM. ANTENIA, ANTENIA, CHELLS, CONNECTIONS, AND FITTING SHALL BE THRIO PARTY FURNISHED COMPONENTS AS SHOWN ON THE BILL OF MATERIALS.
2. CARLE HUNGERS SHALL BE CHECKLED AT A COMPLETE OF THE PROPERTY OF THE MATERIALS.

2. CABLE HANGERS SHALL BE INSTALLED AT A MAXIMUM 4' SPACING.

3. INSTALLATION

COADAL CABLE LENGTHS SMALL BE FIELD MEASURED. INSTALLER SMALL NOTIFY CARRIER PRIOR TO PURCHASE OF CABLE OF THE OVERALL LENGTH REQUIRED.

COADAL CABLE TYPE AND DUMETER SMALL BE VERRIED WITH CARRIER.

COADAL CABLES SMALL BE LABELED IN ACCORDANCE WITH CARRIER ELECTRICAL MATERIALS AND METHODS SPECIFICATIONS. ALL MAIN CABLES WILL BE COLOR COOED AT FOUR LOCATIONS: A) AT ANTENNA PROOR TO JUMPER, B) AT THE BOTTON OF THE TOWER, C) CREENOR RATE OF THE WAYE COULDE CHIEFY PORT (AT THE SHELTER/CARRIET WALL), D) INTEROR OF THE SHELTER/CARRIET.

PROVIDE AT LEAST 6" OF SLOCK IN THE MAIN COADAL CABLES AT THE ANTENNA END TO PROVIDE REPORT COMMERCIOR PERLICAURITY.

FOR FUTURE CONNECTOR REPLACEMENT.

FOR FITURE CONNECTOR REPUZEMENT.

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

UPON SUCCESSFUL COMPLETION OF THE SWEEP TEST, THE CONTROCTOR SHALL PROVIDE A

WEATHERMOST SEAL ON THE COAX CALLES.

THE MANAGEM BEDINOR PAGUES FOR ALL ANTENNA CABLES SHALL BE AS SHOWN BELOW OR PER THE

MANAGEMENT, WHICHEVER IS MORE CONSERVATIVE:

IN CONDUIT CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENOS. CABLE SHALL NOT BE LEFT UNTERMINATED IN

IN AIR OR CABLE TRAY

AL MAIN CABLES WILL BE CROUNDED AT: A) THE ANTENNA, B) MIDDLE OF THE CABLE RUN IF OVER 200°, C) PROR TO ENTERING COURNEDIT SHELTER/CABINET (WITHON 1° OF ENTRY). GROUNDING KITS — AFTER INSTALLATION OF GROUND STRAPS, THE CONNECTIONS SHALL BE MADE WEATHER TREIT USING WEATHERPROOF KITS AS IDENTIFIED. GROUND PICTALS SHALL BE BROUGHT OUT IN THE DOWNWARD DIRECTION FROM THE CONNECTION TO THE ANTENNA CABLE WITHOUT ANY SAVAP BENDS (MINIAURA RADIUS 10°) AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

13.2 ANTENNA RECURREMENTS:

1. AZIMUTHS ARE ORDITED CLOCKWISE FROM TRUE NORTH.

2. CONTROOTOR SHALL VERPY ANTENNA TYPE, AZIMUTHS, AND DOWNTILTS WITH THE CARRIER PROR TO CONSTRUCTION.

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

TOWER CLIMBING SYFETY CUDDELINES
TOWER CLIMBING TRAINING COURSE PER CONTRACT SPECIFICATIONS PRIOR TO WORK ON THIS STRUCTUR

PHORE TO MORE OF THIS STRUCTURE.

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

TOWER CLIMBERS WILL NOT BE ALLOWED TO ACCESS TOWER IN ADVERSE WEATHER CONDITIONS, INCLUDING HIGH WINDS, USERTIMENT, RAYM, SNOW ICE OF DURING MIGHT TIME.

CONTRACTOR OR CLIMBERS SHALL IMMEDIATELY REPORT ANY CLIMBING EQUIPMENT OR CONDITIONS JUDGED INADEQUATE
OR LINESEET.

5. EMERGENCY NUMBERS SHALL BE POSTED ON SITE AND ADVERTIZED TO CUMBERS BEFORE THE BEGINNING OF THE

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

PHONE 407.260.0231

20 - SITE SPECIFIC NOTES
20.1 GENERAL
1. CONSTRUCTION INCLUDES:

 INSTALLATION OF COMMUNICATION EQUIPMENT
 ANTENING 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 AMERICAN WRE GAUGE
BARE COPPER WRE
BASE TRANSMISSION SYSTEM
COAX ISOLATED GROUND BAR, EXTERNAL DIAMETER ELECTRICAL METALLIC TUBING GENERATOR
GLOBAL POSITIONING SYSTEM
MASTER ISOLATED GROUND BAR
NATIONAL ELECTRIC CODE, LATEST ADOPTED EDITION
POMER PROTECTION CASINET



1 05/03/13 REVISED PER COMMENTS 0 10/30/12 ISSUED FOR PERMIT

REV DATE DESCRIPTION 131111111

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IT IS A VIOLATION OF UM FOR ANY PERSON WALESS THEY ARE ACTING WADER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT, WILESS EXPLICITLY AGREED TO BY AW SOLUTIONS IN

SFL61\_2 SITE#

539 NW 17TH AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE:

**SPECIFICATIONS** 

SHEET NUMBER:

SP2

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