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CITY OF FORT LAUDERDALE **ENGINEERING DIVISION** APPLICATION TO INSTALL AT GRADE COMMUNICATIONS SERVICE FACILITIES

PERMIT NO. CC13-06 **District 3**

Applicant Name and Job Number Crown Castle SFL 61_3 Job Address and Location 934 NW 16 Avenue Description of Work Installing cabinet and utility pole within right-of-way. Anticipated start and end dates of work 6/1/13 - 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.2 □ C.1 ☐ C.3 □ C.4 □ C.6 □C.7 ☐ C.12 (Size) (Height) (Front Yard) (Corner Yard) (Separation) (Exist. Facility) (Collector) With the exception of any waivers that may be checked above, the proposed at grade facilities conform to the X requirements in Section 25-100.1 of the Code 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. The proposed site will be maintained by Crown Castle in accordance with the approved Graffiti Mitigation Plan X dated 04/04/2013 ____, which is on file with the City Engineer A landscaping maintenance commitment letter from the adjacent property owner and relevant home owner association is attached to this application. Crown Castle shall be responsible for maintaining landscaping X

As an authorized representative of Crown Castle, I certify under oath that the forgoing statements are true and

The proposed at grade facilities depicted on the attached plans are completely located in the public rights-of-

correct.		meen.	1
Armando Hernandez Printed Name of Authorized Crow	n Castle Agent	Signature of Authorize	zed Crown Castle Agent
Sworn to and subscribed before n	Notary Public Notary Propriet NAME HAFNER	e, My Commiss	, 2013 sion Expires4 -3 -16
MY EX	PIRES: September 03, 2016		(Do not write below this line)
Conceptual approval date	by		, Subject to the following conditions:
1) A detailed visual mitigation	piari is required		

Final Inspection date____

**Notify Engineering Permits Division 24 hours prior to starting work at (954) 828-5649

Final Permit approval date_____

by

Rord 5/31/13



CITY OF FORT LAUDERDALE ENGINEERING DIVISION APPLICATION TO INSTALL AT GRADE COMMUNICATIONS SERVICE FACILITIES

PERMIT NO. CC13-06
District 3

Applica	nt Name	e and Job Nur	nber Crown Castle	SFL 61_3	0.11	-1:-	
Job Add	dress ar	nd Location_N	W 16 Avenue	- Neo o	Addres	20 7	
Descrip	tion of V	Work Installin	ng cabinet and utili	ty pole within rig	ht-of-way.		
Anticipa	ated star	rt and end dat	es of work6/1/13	- 45 days		-	
x	below (Code). Crown	grade, in acco	ordance with Section qualified expert(s)	ion 25-100.1.B.3 is attached.	of the City of F	Fort Lauderdale Co	ns service facilities ode of Ordinances attach supporting
□ (Siz	C.1 (e)	☐ C.2 (Height)	☐ C.3 (Front Yard)	☐ C.4 (Corner Yard)	☐ C.6 (Separation)	☐C.7 (Exist. Facility)	Collector)
Arma	require Notice one hu with Se The pro dated _ A lands associa Crown The pro way. authoriz	ments in Sect of the pending indred fifty (18 ection 25-100. poposed site wing 164/04/2013 ecaping maintation is attached Castle shall be posed at granted representation is attached in the control of t	ion 25-100.1 of the grapplication has be grapplication has be grapplication has be grapplication of the Code. If the maintained by which is on fill enance commitmed to this application of the facilities depicted.	e Code een provided to cosed site and cosed site and to cosed site	all property owner the relevant hor accordance with ngineer e adjacent propercaping ed plans are commoder oath that the Manual of the commoder	ers abutting public romeowner associated the approved Grant erty owner and release appletely located in the appletely loc	ties conform to the rights-of-way within ion, in accordance affiti Mitigation Plan evant home owner the public rights-of-ments are true and
Sworn (Seal)	to and s	SH. MY CO	ANE HAFNER MMISSION # EE831765 KES: September 03, 2016	day of Public, of Florida	My Commission	n Expires9	77ite below this line)
Concep	tual app	oroval date	by			_, Subject to the fo	ollowing conditions:
1) A d	etailed	visual mitiga	tion plan is requi	red			
Final F	ermit a	approval date	by		Final Inspection	on datel	ру
		ering Permits work at (954)	Division 24 hours 828-5649				

REVIEW CHECKLIST FOR CABINETS IN RIGHTS-OF-WAY

Permit No	. CC13 -	06
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X	Applicat	ion Pac	kage (complet	te – 3	sets	J,	J)
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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)
	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)	ø
X	Sum of H + W + L not greater than 124" and H not greater than 5'-8"	7.)
X	Cabinet not in front yard	OK
X	Proposed landscaping is in accordance with plan on file with City	
×	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.	CPC .
X	Cabinet not in sight triangle (sight triangle may be reduced to 10 feet)	DK
X	ADA requirements met	NA
X	Roadside recovery setback met (per Florida Green Book)	esc.
X	Cabinet/landscaping is at least one foot from sidewalk	05
X	Cabinet would not conflict with future sidewalk	Ö
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	



Crown Castle

8555 NW 64th Street

Miami, Florida 33166-2628

MelissaP.Anderson@crowncastle.com

Office 786-899-5911 Mobile 561-310-9261 Fax 305-591-1469 www.crowncastle.com

April 4, 2013

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

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

Dear City Engineer:

CC:

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

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

Very Truly Yours

Melissa P. Anderson

Government Relations Counsel

Southeastern Region

Wayne Waldron, Director of Implementation

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

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

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

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

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

Wayne W. Waldron

Director of Implementation

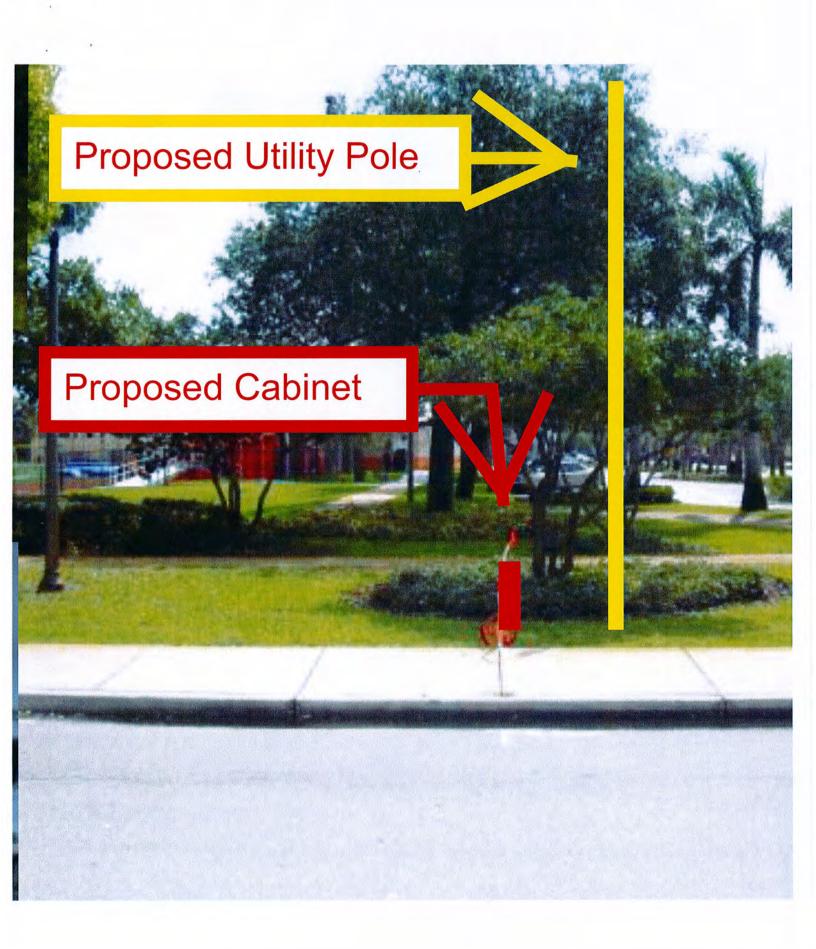
Southeastern Region

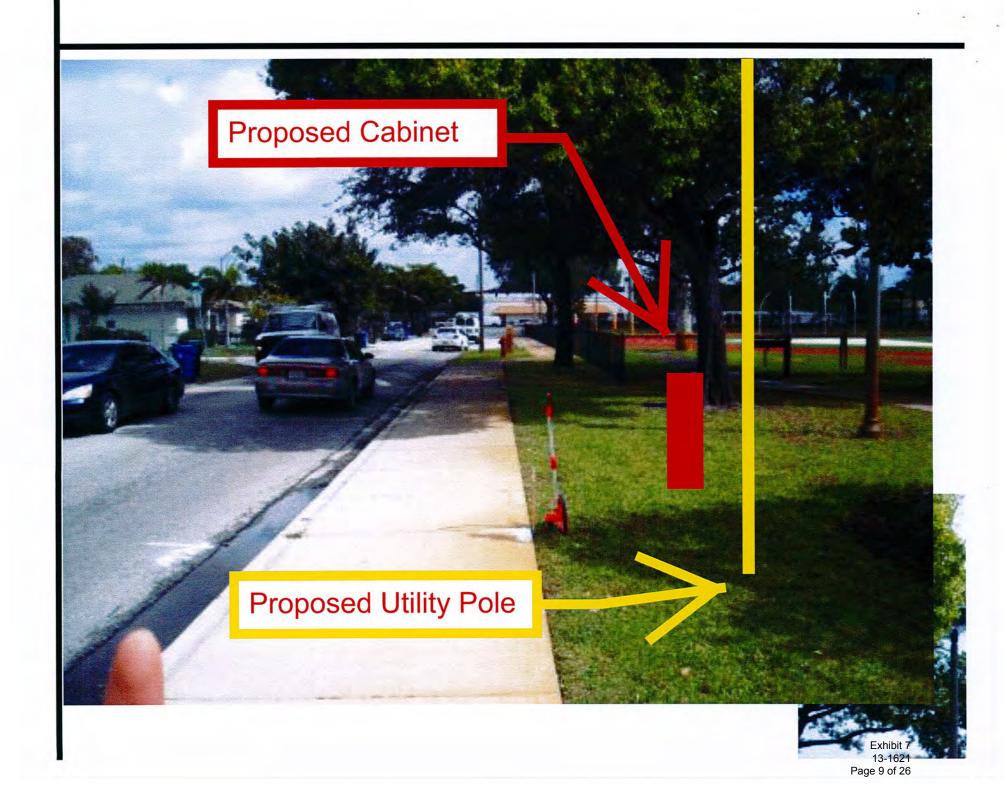
Crown Castle NG East Inc. Graffiti Mitigation Plan

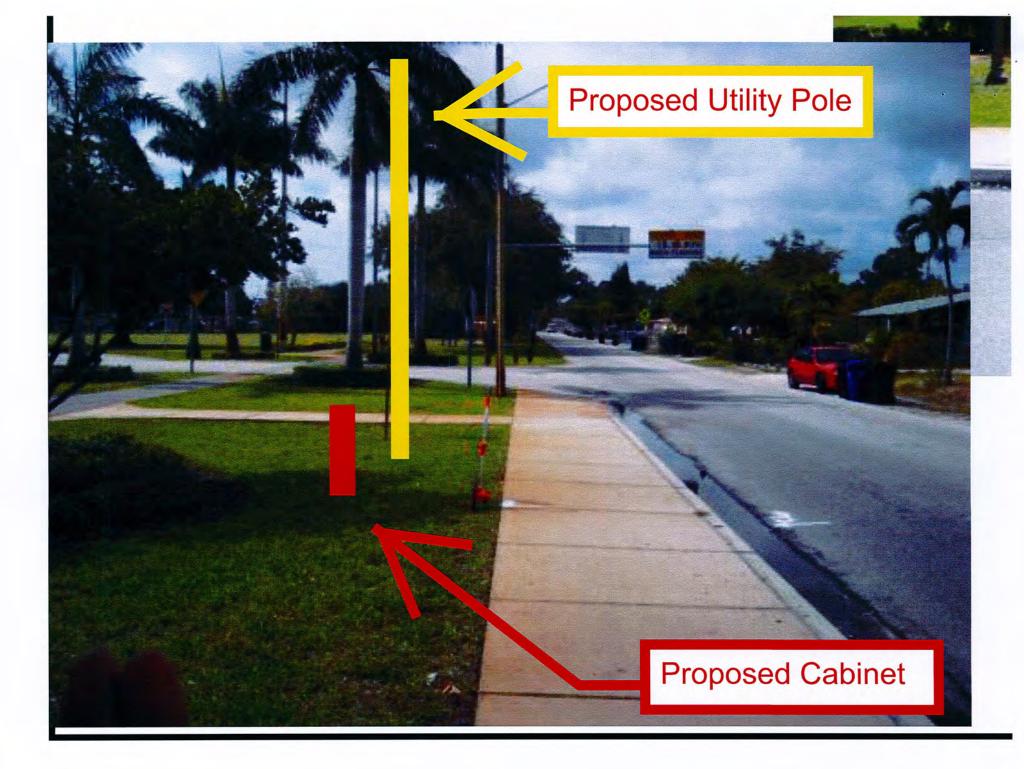
Pursuant to the City of Ft. Lauderdale's Communications Service Facility Right-of-Way Ordinance No. C-07-108, this Graffiti Mitigation Plan describes how Crown Castle NG East Inc. ("Crown Castle") will maintain communications service facilities governed by the Ordinance free from graffiti, including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

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

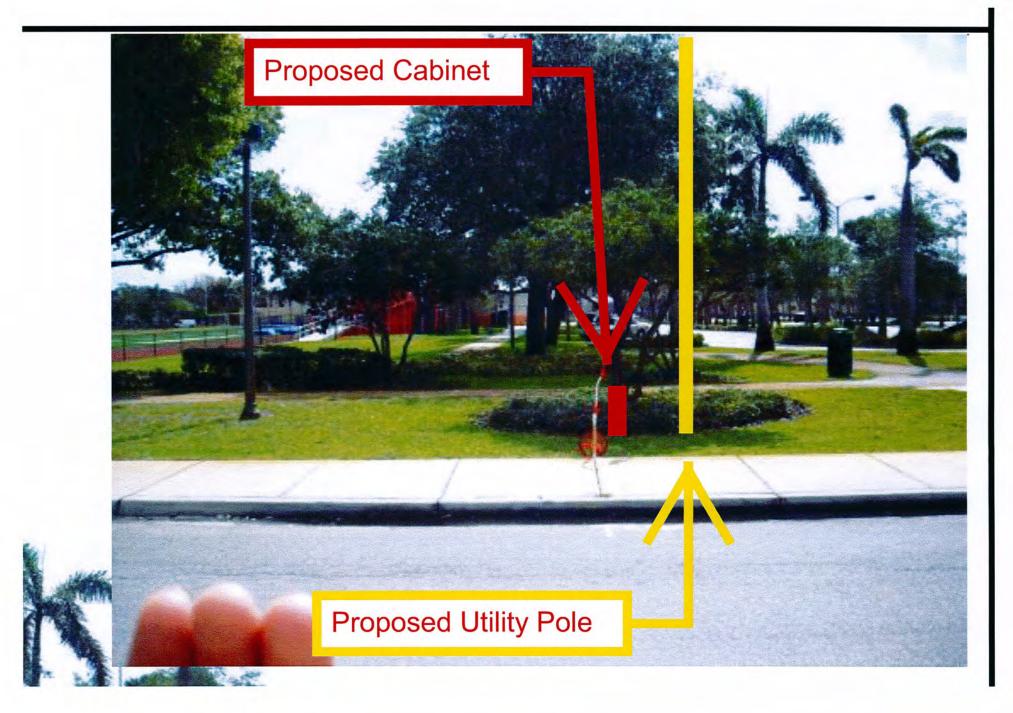












Notice of Right-of-Way Permit Application Submitted to City of Ft. Lauderdale

Dear Abe Irving,

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: 934 NW 16th Avenue Fort 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

Dear Carl & Kiyoko Hickey,

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: 934 NW 16th Avenue Fort 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

Dear Joyce Ann Fernandez,

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Sincerely,

Armando Hernandez

Site Development Manager

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Sincerely,

Armando Hernandez

Site Development Manager

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

Dear Nyree Kelly & Nyecha Kelly,

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Sincerely,

Armando Hernandez

Site Development Manager

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

Durrs Community Association, Inc.,

This letter is to inform you that Crown Castle NG East Inc. has submitted a right-of-way permit application to the City of Ft. Lauderdale for the placement of a communications facility in City rights-of-way adjacent to the following property address: 934 NW 16th Avenue Fort Lauderdale, Fl. 33311

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Sincerely,

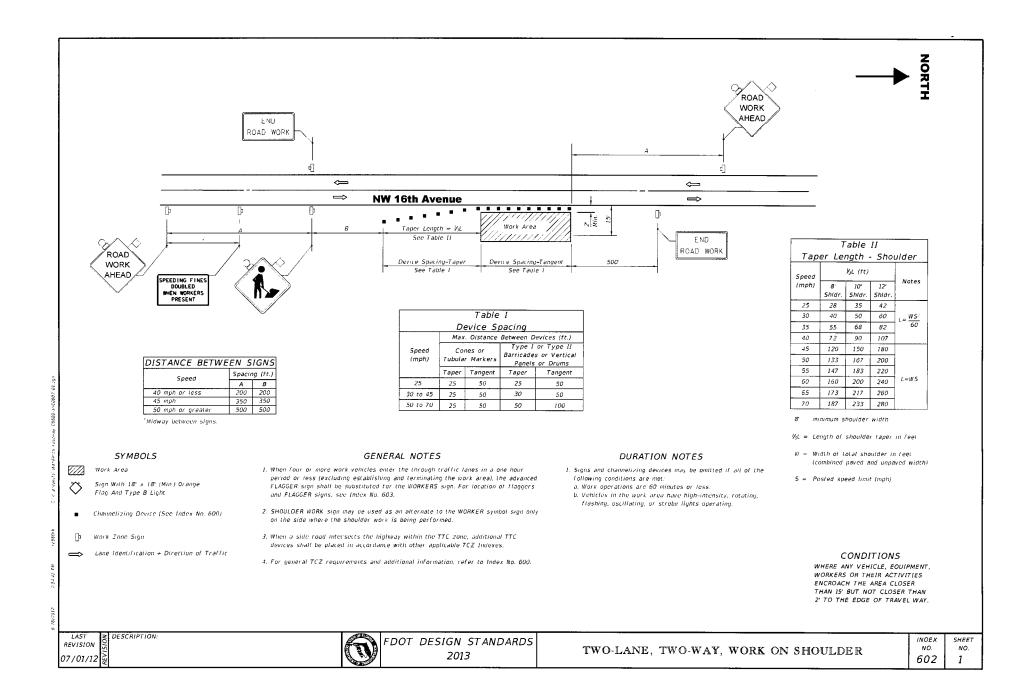
Armando Hernandez

Site Development Manager

TEMPORARY MODIFICATION OF TRAFFIC (MOT) ROUTING FORM

DATE: \$ 21/13	
•	
APPLICANT/ADDRESS/PHONE: Crown Castle NG East, Inc.	PERMIT NO.
8555 NW 64th Street	(PROVIDED BY CITY AT TIME OF PERMIT APPLICATION)
Miami, Fl. 33166 813-447-0333	
010-447-0000	PROJECT NAME/ADDRESS: SFL 61_3
 "PERMIT"). Obtaining signatures on this routing form do only after issuance of the PERMIT, subject This form is for MOT's within rights-of-way urights-of-way under Broward County juris completed with the required signatures and be attached. If work is taking place in County or FDC 	nd submitted as an attachment to the above-referenced permit (hereinafter oes not constitute any approvals by the City. The MOT may be implemented to satisfaction of all prerequisite conditions. Under City of Fort Lauderdale's jurisdiction. If the MOT or detour routes affect diction, the County's form (available on the City website) should also be attached. If the detours affect FDOT right-of-way, a permit from FDOT must DT R/W, an MOT permit is not required from the City. However, PERMIT ed to provide two weeks advance notice of any closures or detours to the
Specific dates and times requested for MOT in	nplementation:
Begin Er	nd
the construction, deliveries, staging areas, if of are not permitted in the right-of-way). Please work. 934 NW 16th Avenue approximately 135's Place new telecommunications cabinet at to new 45' wood utility pole. Describe MOT, the number of lanes affected are necessary, if flagmen will be provided, if lany other special considerations related to the description of MOT.	address, names of affected streets, why MOT is necessary, nature of cranes will be used, etc. (staging and storage of materials/equipment e note if additional sheets have been attached for the description of South of NW 9th Place. Work on shoulder and sidewalk closure, and new 45' wood utility pole. Attach Crown Castle antenna on each street, if metered parking spaces will be displaced, if detours MOT will be full-time (or times of day the MOT is to be in effect) and his request. Please note if additional sheets have been attached for ttached. Daily work hours 8am - 4pm.
appropriate for the complexity of If implementation of an approved PERMIT is there is a conflict with a higher public purpos	ed worksite traffic control technician or traffic control supervisor (as the job), with a copy of current certification. found to adversely affect public safety and/or public convenience or se, the APPLICANT may be required to modify the MOT plan or the
The MOT plan shall be in accordance with pro	ermanently revoked at any time with reasonable notice from the City. Divisions of the latest edition of Part IV of the Manual of Uniform Traffic d FDOT Design Standards. Compliance with the requirements of the APPLICANT. Armando Hernandez / Site Development Manager
(APPLICANT)	(Print Name/Title)
As a consideration for the permission granted	herein, <u>Armando Hernandez</u> (APPLICANT) agrees to Lauderdale for any damages, claims or injuries that may result from
Crown Castle NG East, Inc. (Name of Company)	By: Arnands Herrandez (Company Officer, President, or Authorized Agent)

Rev. 6-8-12



FDOT DESIGN STANDARDS

2013

DESCRIPTION:

REVISION

07/01/12

PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

INDEX

NO.

660

SHEET

NO.

1



CLIENT :

CROWN CASTLE SFL61_3

ADDRESS:

CLIENT SITE ID#:

934 NW 16TH AVENUE FORT LAUDERDALE, FL 33311

SITE TYPE:

NEW CONCRETE POLE

PROPERTY INFORMATION

SITE COORDINATES:

JURISDICTION:

PROPERTY OWNER: ADDRESS:

26.135228*

-80.163885* CITY OF FORT LAUDERDALE

CROWN CASTLE 8555 NW 64TH STREET

MIAMI, FL 33166

CROWN CASTLE 8555 NW 64TH STREET MIAMI, FL 33166

PROJECT TEAM

ENGINEERING FIRM:

AW SOLUTIONS, INC. 300 CROWN OAK CENTRE DR. LONGWOOD, FL 32750

CONTACT: SHANE HAFNER 407.260.0231 EXT. 120 PHONE: FLORIDA COA#: 26983

DESIGN CRITERIA;

- 1. FLORIDA BUILDING CODE 2010 AND ASCE 7-10. WIND LOAD PER ASCE 7-10.
- A. ULTIMATE WIND SPEED: 170 MPH. BUILDING RISK CATEGORY: II.
- DEAD LOAD:
- EQUIPMENT WEIGHT PER MANUFACTURER DATA. 3. SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

DRAWING INDEX

SHEET	SHEET DESCRIPTION	REV
T1	TITLE SHEET	1
C1	SITE PLAN	1
C1.1	SITE PLAN ENLARGEMENT	1
C1.2	LANDSCAPE MITIGATION PLAN	1
C2	ELEVATION	1
C3	DETAILS	1
C4	DETAILS	1
SP1	SPECIFICATIONS	1

approvals

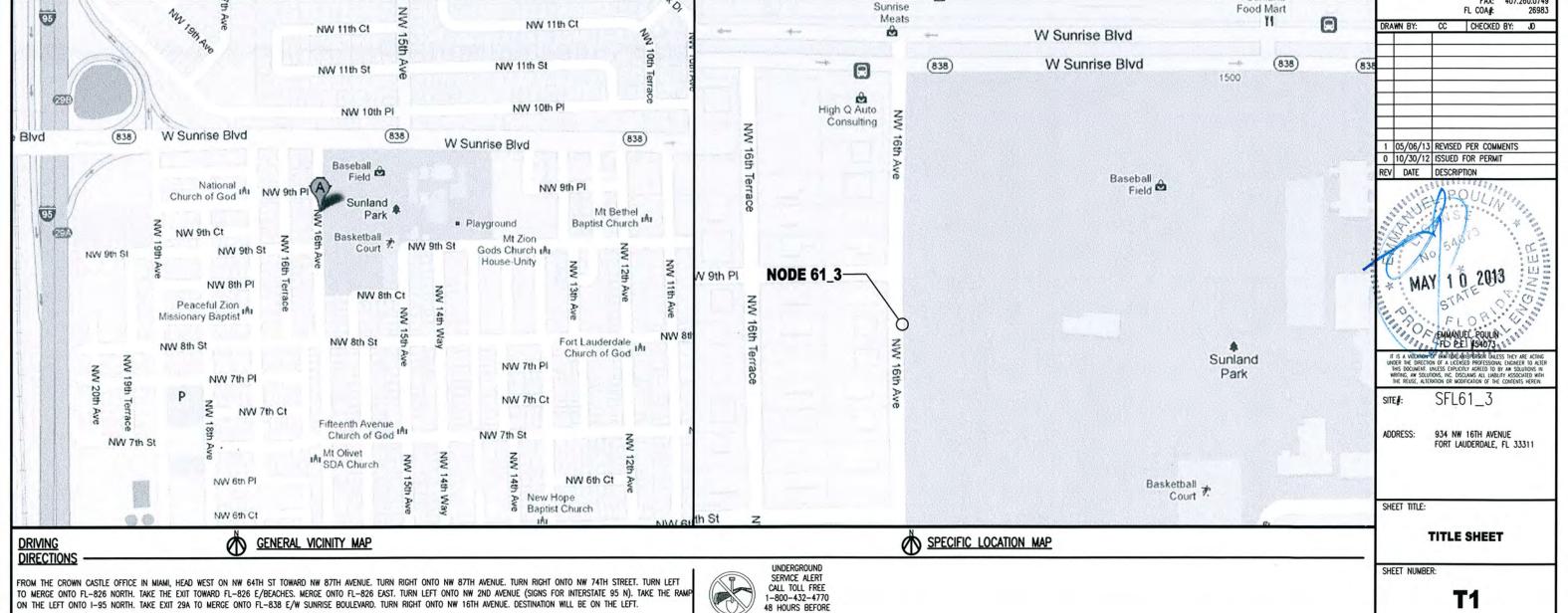
SP2 SPECIFICATIONS

PROJECT MANAGER:

DATE:

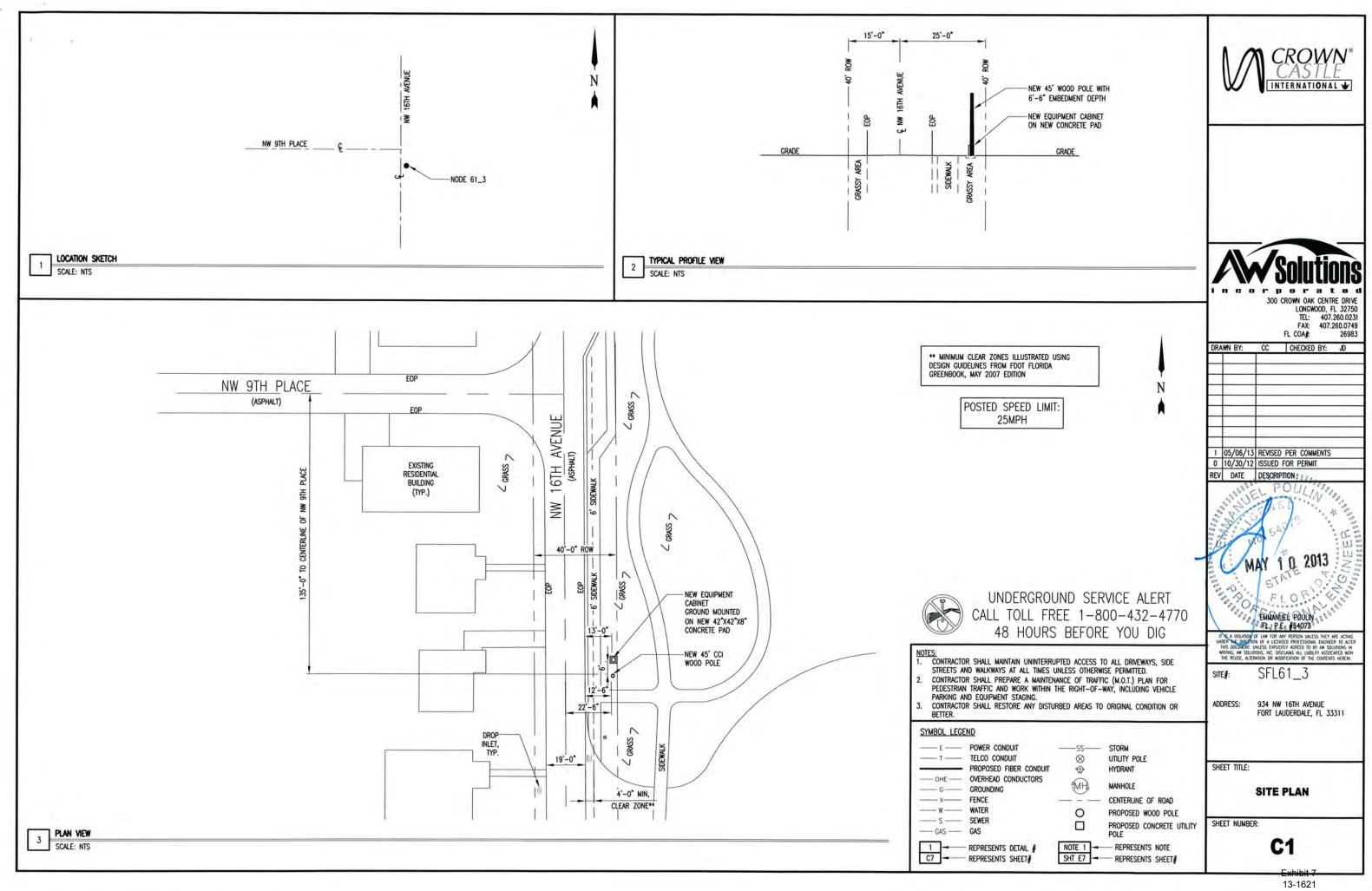
INTERNATIONAL *

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



YOU DIG

13-1621 Page 22 of 26



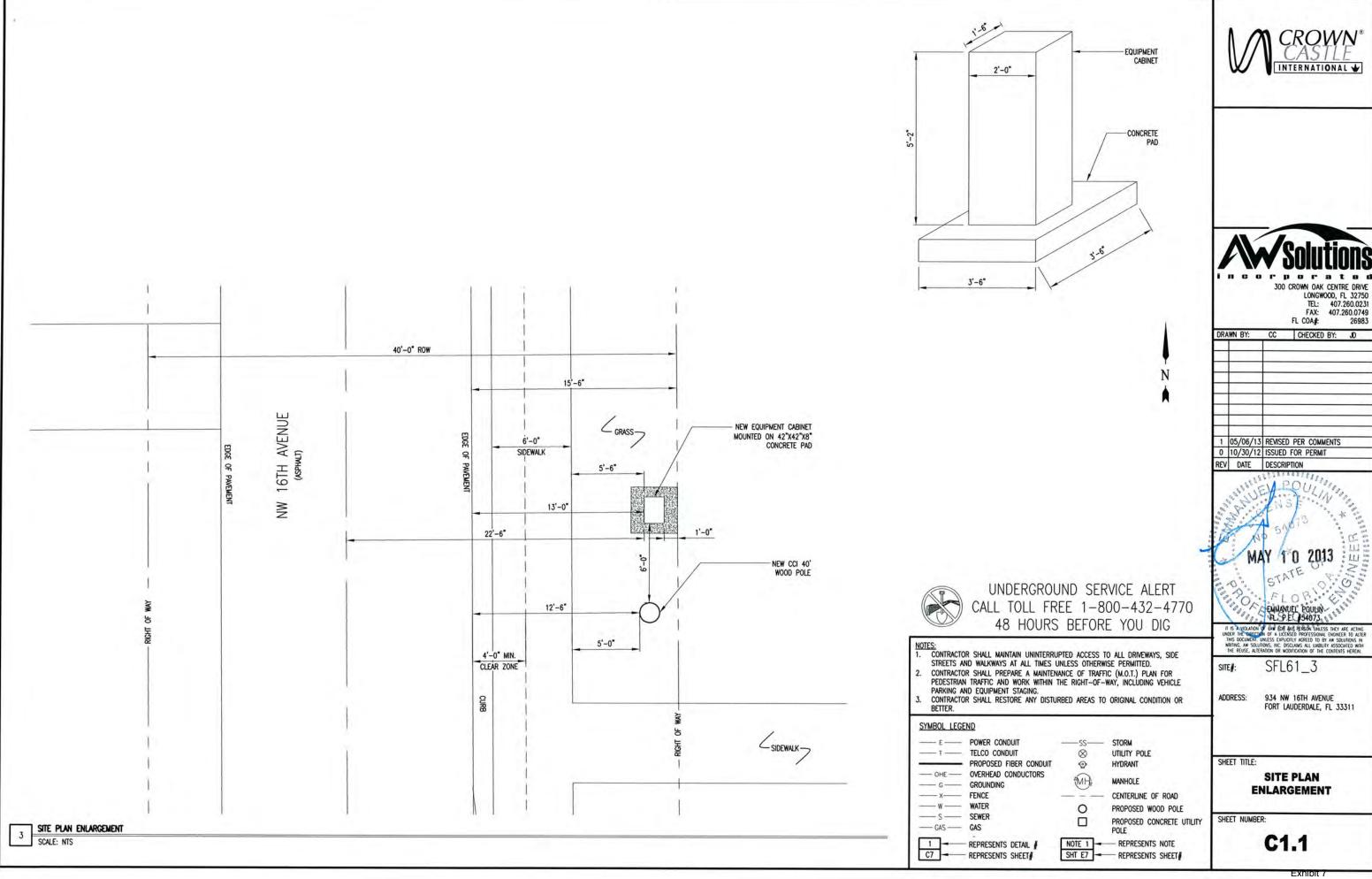


Exhibit 7 13-1621 Page 24 of 26

- GENERAL PROMISIONS

 1.— CONTRACT OVERMEN

 THE INTENTION OF THE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLUDE ALL LABOR AND MATERIALS REASONARY, NECESSARY, WHETHER OR NOT SPECIFICALLY NORCHED, FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS SIPPOLATED IN THE CONTRACT. THE INTENT OF THIS DOCUMENT IS NOT TO DESIGNATE THE MEMBRY AND METHODS OF PROCEDURE OF THE WORK, THE CONTRACTOR SHALL SUPPRINCE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS, HE IS SOURLY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, INCLUDING TECHNIQUES OF THE WORK HIS PROFESSIONAL KNOWLEDGE AND SKILLS, HE IS SOURLY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, INCLUDING TECHNIQUES OF THE WORK HIS PROPERTY OF THE WORK HIS PROPERTY OF THE WORK HIS PROPERTY. METHODS, TECHNIQUES, PROCEDURES, SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK LINDER THE
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES, STANDARDS

IPPLEMENTS:
FBC - FLORIDA BUILDING CODE 2010
FBC - FLORIDA BUILDING CODE 2010
ASC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS
IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
NEC - MATIONAL ELECTRICAL CODE

MATIONAL CODE

MATI

NEWA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

Nema - Mational Electrical Manufacturers association
UL - Underwriteris Laboratories
NSPC - National Standard Plumising Code
INC - International Mechanical Code
NSPA - National Fire Protection association
OSHA - Occupational Safety and Health Administration
ANS/TMA - Telecomaning-rooms industry Association - 222-6 Standard
ALL Governing State, County and Local Codes and Ordinarics

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

TRECUMBLISHES CHAMINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPUSHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ENGINEERING DRAWNINGS DUE TO CHANGES AFFECTING EXISTING ELECTRICAL OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO A PART OF THIS CONTRACT. INSPECT THOSE AREAS AND ASCENTAN WHAT IS MEDICED TO DO THAT WORK IM ACCORDANCE WITH THE CONTRACT.

INSPECT THOSE AREAS AND ASCERTIAN WHAT IS NEEDED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREDMENTS AT NO ADDITIONAL COST TO THE OWNER.

DO NOT SCALE DRAWNINGS. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE.

MINOR DEVATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK, HOMEVER, NO CHANGE THAT ALTER THE CHARACTER INTENT OF THE DESIGN WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT A CHANGE ORDER.

CONTRACTOR. STRUCTURAL ELECTRICAL AND ANTENNA DRAWNINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWNINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE GENERAL.

the general notes contained herein are part of the plans and specifications, and are to be complied WITH IN ALL RESPECTS. THE MOST RESTRICTIVE MOTES SPECIFIED ARE TO TOTAL PRECEDENCE. CERTAIN SOFT THE GENERAL MOTES MAY NOT APPLY TO EVERY SITE. THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE GENERAL NOTES IN ALL RESPECTS.

ALL GENERAL MOTES 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 DRAWNS SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARNS OF THE TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF THE SURVEY DRAWNS AND ANY SURVEYOR'S MARKING AT THE SITE FOR THE ESTABLISHMENT OF THE RIVE NORTH, AND SHALL NOTHEY THE ENGREER PROPER TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VINDOUS ELEMENTS OF THE WORKING DRAWNINGS AND THE TRUE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VINDOUS ELEMENTS OF THE WORKING DRAWNINGS AND THE TRUE WORK IN ONTH OTHER THAN SOLED BETWEEN THE VINDOUS ELEMENTS OF THE WORKING DRAWNINGS AND THE TRUE WORK! ONTH OTHER THAN SOLED BETWEEN THE VINDOUS ELEMENTS OF THE WORKING DRAWNINGS AND THE TRUE WORK! ONTH OTHER THAN SOLED BETWEEN THE VINDOUS ELEMENTS OF THE WORKING DRAWNINGS AND THE TRUE WORK! ONTH OTHER THAN SOLED BETWEEN THE VINDOUS ELEMENTS.

entaileds.
The contractor shall use adequate numbers of skilled workinen who are thoroughly trained and experienced in the necessary crafts, and who are completely familiar with the specified requirements

EXPERIENCED IN THE INCOSSARY CRAFTS, AND WHO ARE COMPLIEIZ FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERSONANCE OF THE WORK.

THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE UNITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD THE DESIGN ENGINEER HARMLESS FROM ANY AND ALL LUABILITY, REAL OR ALLEGD, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

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

TO SAFETY PRECAUTIONS AND PROGRAM

THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE SITE UNTIL COMPLETION OF THE

CONSTRUCTION.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROCRESSION IS NOT INTERRUPTED. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PEPFORMANCE OF THIS CONTRACT TO ANDID DELAYS IN THE CONTRACT SCHEDULE OR OTHER WORK PEPFORMED IN THE WICHITY OF THE CONSTRUCTION AREA.

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WELL IN ADVANCE OF THE

IN THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCREDULE TO THE PROPERTY OWNER WELL IN ADVANCE OF THE STARTING DATE OF THE WORK. THE OWNER SHALL ASO BE INDITED OF A CHANGE IN THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL DAMPY WITH ALL REQUIRED PROPERTY.

LECKI CONTRACTOR IS RESPONSIBLE FOR PULLING THE BUILDING PERMIT AT THE LOCAL JURISDICTION AS THE CONTRACTOR OF RECORD, AND SHALL PROVIDE THE JURISDICTION WITH ALL PROOF REQUIRED TO OPERATE AS THE CONTRACTOR IN THIS JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFFINIANING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, IMPRECIDENCE, SCRIPTICATIONS, ETC. PROFIT TO BEGIN TO BEGIN THE WORK.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE HOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 48 HOURS OF NOTICE SHOULD BE GIVEN TO AUTHORITIES. AN EXTENSION IN THE CONTRACT SCHEDULE WILL NOT BE GRANTED DUE TO DELAY CAUSED BY INSPECTIONS.

EACH CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES, BOINDS AND INSURANCES. DOCUMENTATION SHALL BE ROWOODED TO THE OWNER. PROOF OF THE WORK PROVING SHALL BE ALL THESE. IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REPLECT THE SAME INFORMATION AS THE APPROVED PLANS SHALL BE AMMARANDE FOR INSPECTION AS THE THE FORTH PROVIDED BY THE CONTRACTOR SHALL ALSO MANTIAN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILTS CHANGES, REVISIONS, ADDENDA, OR CHANGES ORDERS.

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

ROUTING AND CIRCUITS UPON COMPLETION OF CONSTRUCTION.
THE CONTRACTOR IS TO CONTACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION THE CONTRACTOR IS TO CONTACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS TO ROBER SERVICE, ORDINAL MID PLAY LEFES ASSOCIATED WITH CONSTRUCTION, SCHEDULE INSTALLATION OF SERVICE, COORDINATE CONDUIT RUN/TERMINATION POINT AND OBTAIN ANY FIELD MATERIALS THAT MAY BE SUPPLIED BY THE UTILITY COMPANIES AND INSTALLED BY THE CONTRACTORS SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL WORK DURBING CONSTRUCTION TO AVOID DAMAGE, COLLAPSE, DISTORTION, MISALIGNMENT AND

ALTERATION OF ROOFING WARRANTIES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOLLET FACILITIES AS REQUIRED BY THE

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

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

ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITIONS PROR TO INSTALLATIONS, AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT.

IL MATERIALS WEST DE STORED IN ALL DOES AND DRY LOCATION AND IN AL MANIFER THAT WILL NOT OFFICIAL TO BE ADD OFFICE AND DRY LOCATION AND THE MANIFER THAT WILL NOT OFFICIAL TO BE ADD. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY LOCATION AND IN A MANNER THAT WILL NOT OBSTRUCT THE FLOW OF OTHER WORK RELATED OR NOT TO THIS CONTRACT, ANY EQUIPMENT OR MATERIAL STORAGE MUST MEET ALL

PLOW OF OTHER WORK RELATED OR NOT TO THIS CONTROCT, MY EQUIPMENT OR MILEMAL STORES, WISST MERCOMMEDIATIONS OF THE MANUFACTURER. THE CONTRICTOR SYMLL INSPECT THOROUGHLY ALL MATERIALS AND EQUIPMENT PROR TO FINAL INSTALLATION. DIAMOGED EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED PETRIAN. ALL MATERIALS SHALL BE INSTALLED PETRIAN. ELECTOF FOR WARRING SIGNS SUCH AS "NO TRESPASSING" AND SIGNS THAT STATE OWNERSHIP AND EMERGENCY TELEPHONE MUMBERS, NO SIGN SHALL BE LOCATED ON THE TOWER.

**ALL EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB.

2 EXSTING CONDITIONS AND STRUCTURES
. BEFORE BEGINNING WORK AT THE SITE, THE CONTRACTOR SHALL INSPECT THE EXISTING COMPOUND OR BUILDING AND BEFORE BEGINNING MORK AT THE STI, THE CONTRICTOR SYALL INSPECT THE EXISTING COMPOUND OR BUILDING AND DETERMINE THE EXTENT OF DISSTING PINISHES, SPECIALIES, COUPRINGT AND OTHER TIBLS WHICH MUST BE REMOVED AND REINSTALLED IN ORDER TO PERFORM THE WORK UNDER THIS CONTRICT. THE CONTRICTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK IN DETAIT CHARGE OR COMPENSIONS INSIGHT SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE EIGNETER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKGUARLIKE MANNER IN ACCORDANCE.

WITH ACCEPTED CONSTRUCTION PRACTICES.
BY SUBJUTTING A BID FOR THIS WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS THOROUGHLY REVIEWED AND

AT THE STIE.

THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL HOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY
MATTER OR THING WHICH SUCH THE CONTRACTOR MIGHT NOT HAVE FULLY INFORMED HIMSELF PRIOR TO BIDDING.

NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFECULTES THAT MAY BE ENCOUNTERED OR OF ANY
OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED WILL BE ACCEPTED AS A REASON FOR ANY
FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL THE REQUIREMENTS OF THE CONTRACT

documents.
It is understood by the owner that the contractor in submitting his Bid, warbants that he has carefully examined the STE of the project to account hinself with the surrounding properties, the means of approach to the STE, the conditions of the actual job site, the facilities for delivering, storing, placing,

HANDLING AND THE REMOVAL OF MATERIALS AND EQUIPMENT AND MAY AND ALL DIFFICULTIES THAT MAY BE
ENCOUNTERED DURING THE EXECUTION OF THE ALL WORK IN ACCORD WITH THE CONTRACT DOCUMENTS.
THE LOCATION OF DUSTING UNDERGROUND UTLITIES HAVE NOT BEEN YERRIED BY THE OWNER OR ITS REPRESENTATIVE.
THE CONTRACTOR IS RESPONSIBLE FOR HAVE ALL HOMERGROUND UTLITIES LOCATED WITHIN THE LIBITS OF
CONSTRUCTION AND ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED THE
CONTRACTOR FALURE. TO LOCATE ALL UNDERSOUND UTLITIES BEFORE COMMENCING WORK.
SHOULD ANY EPROR OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR BEFORE
PROCEEDING WITH THE WORK MUST MAKE MONTION OF THE SAME TO THE ENGINEER AND OWNER FOR PROPER
ADJUSTMENT AND IN NO CASE PROCEED WITH THE WORK IN UNCERTAINTY OR WITH INSPECIAL TRANSMICS.
THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT
THE SITE BEFORE GROEPING ANY MATERIALS OR DOING ANY WORK NO EXTRA CHARGE OR CONSIDERATION SHALL BE
ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION
DRAWINGS. ANY DISCREPANCY IN DIMENSIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ENGINEER AND THE
OWNER OR THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE
OWNER OR ITS REPRESENTATIVE. WINER OR ITS REPRESENTATIVE

OWNER OR ITS REPRESENTATIVE.

TRADE, PRODUCT HAMES OR MANUFACTURER'S NAMES OR CATALOG MUNBERS AND INDICATIONS OF EXISTING PRODUCT

TYPES SHOWN ON THE DRAWNASS ARE BELIEVED TO BE ACCURATE. IF THEY ARE DISCOVERED TO BE INACCURATE,

NOTIFY ENGINEERS IMMEDIATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.

PROOR TO STATING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGES WHICH MAY OCCUR

DURING CONSTRUCTION. ANY DAMAGES TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE

DURBING CONSIDERATION AND LOWAGES TO NEW ON DESIGNE SUIGNACES, STRUCTURES ON EQUIPMENT SHALL BE MINEDUALLY REPAIRED OR REPLACED TO THE SANSACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE COST OF REPAIRING OR REPLACING MY DAMAGES AREAS.

THE CONTRACTOR SHALL TAKE ALL PRECUMDIOMARY MEASURES AND EFFORTS TO PROTECT THE STRUCTURAL INTEGRTY OF DOSTING STRUCTURES, WHEN WORK IS PERFORMED IN THE WORNTY OF DOSTING STRUCTURE, THE STRUCTURAL INTEGRTY AND STABILITY SHALL BE MONTROPED AT ALL TIMES DURBING EVERY PAUSE OF THE CONSTRUCTION.

THE CONTRACTOR SHALL PROTECT DOSTING PROPERTY LINE MONIMENTATION. ANY MONIMENTATION DISTINGED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPRESS THE SIGNACIAND OF A LEVESTIL LAIN SHAPPYOR

EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.

NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT

NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SYMLL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
WHERE INDICATED ON THE PLANS, THE CONTRACTOR SHALL PAINT ALL NEW ANTENNAS SHROUS AND RELATED MOUNTING HARDWARE TO MATCH THE EXISTING ADJACENT SURFACES. THE CONTRACTOR SHALL NOT USE A METAL BASED PAINT FOR ANTENNAS. ALL SURFACE CONTAINANTON SHALL BE REJAVORD PROOF TO PAINTING NEW SURFACES. THE PLANS SHOW SOUR ENDOWN SUBSURFACE STRUCTURES, ADDRESS DESTINGUISES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY WAY FROM THE LOCATIONS INDICATED. IN PROPIOUR AS THE CONTINUE OF WHICH MAY WAY FROM THE LOCATIONS OF GROUND OF SYNAL BEING HAS BEEN AND THE MORRIAGE. BUT THE STRUCTURES AND THE SYNAL BEEN AND THE MORRIAGE OF THE MORRIAGE OF SYNAL BEEN AND THE MORRIAGE OF THE MORRIAGE OF SYNAL BEEN AND THE MORRIAGE OF THE MORR TO ESST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY WAY FROM THE LOCATIONS MORCATED, IN PARTICULAR, THE CONTRACTOR IS WARRED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH CREAT CARE IN EXECUTING ANY WORK, BEFORE YOU DIG, DRILL OR BLAST, CALL THE UNDERFROMON SERVICES ALBEIT NUMBER ON SHEET IT AT THE REQUIPED TIME.

ALL EXISTING ACTIVE SEWER, MATER ROS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, WHERE ROLOWED FOR THE PROPED EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR HEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. IF AN INACTIVE BELEFIELD, ITELEPHONE, SEWER, WATER OR ANY OTHER UTILITY ARE EXCOUNTERED AND INTERPERE WITH THE EXECUTION OF THE WORK, THE CONTRACTOR IS TO REMOVE THE UTILITY AND CAP, PLUG OR OTHER PERCENTIANTE FIRE UTILITY AND CAP, PLUG OR OTHER PERCENT WITH THE WORK, THE CONTRACTOR IS TO REMOVE THE UTILITY AND CAP, PLUG OR OTHER PERCENTIANTE.

THE UTILITY AT A POINT WHERE IT NO LONGER CONNELLY WITH THE WORK IS THE UTILITY WORK SHALL BE ROOM IN

THE UTILITY AT A POINT WHOSE IT NO LONGER CONFLICT WITH THE WORK. THE UTILITY WORK STALL BE DONE IN ACCORDANCE WITH THE UTILITY COMPANIES RECOMMENDATIONS AND PER LOCAL AUTHORY HAVING JURISDICTION. ALL UTILITY WORK INDICAING CONNECTION TO EXISTING SYSTEMS SHALL BE CORROMATED WITH THE OWNER OR CHINER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS

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

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

PROVIDE PROTECTION FOR EQUIPMENT ROOM SURFACES PRIOR TO ALLOWING EQUIPMENT OR MATERIALS TO BE MOVED.

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

owner. In the event of damage to an eosting structure, the contractor shall notify the owner or its representative inacoately, and then promptly make all replacements and repairs to the satisfaction of the owner. The owner may elect to use a theo party contractor to perform the repairs. All expenses associated with the repairs and replacements shall be paid by the general contractor selected for this

ANOMORAL TIME REQUIRED TO SECURE REPLACEMENT AND MAKE REPARS WILL NOT BE CONSIDERED BY THE OWNER TO JUSTIFY 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 DOSTING BUILDING INTEREOR, 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.

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

REPRESENTATIVE.

THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATION, INTERRUPTION OF ANY MECHANICAL AND/OR ELECTRICAL SERVICES, MATERIAL DELIVERES AND STORAGE, STAGING AREA, CRAVE LIFTS WITH THE OWNER PROOF TO THE START OF THE WORK.

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

THE CONTRACTOR SHALL COORDINATE WORK HOURS & STACING AREAS WITH OWNER.
CONTRACTOR TO NOTIFY PROPERTY OWNER OF CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION.

A SITE MAINTENANCE OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY, REMOVE HAZARDOUS PROPERTY OF THE PROPERTY ACCUMULATIONS OF DEBRIS PROMPTLY, AT LEAST DALY, CONFINE DUST PRODUCING OPERATIONS DURING CUT
DRILLING, PANTING AND FINISHING. THERE SHOULD BE NO OVER SPRAYING PAINT IN PARCING AREA. VACUUM
IMMEDITELY AFTER COMPLETION.

IMBEDIATED YELF COUNTEENDS. THE OWNER HOUSE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM, UNLESS OTHERWISE ACREED UPON WITH THE OWNER, MOSE SHOULD BE KEPT TO A MINIMUM THROUGHOUT CONSTRUCTION, MOSE AND EXSTRE BUILDING STRUCTURE WIRRATION GENERALED BY CONSTRUCTION PROCEDURES, COUNTEENT, TOOL

AND OPERATIONS ARE TO BE KEPT TO A PRACTICABLE MINIMUM. WHERE USE OF HIGH MOISE LEVEL EQUIPMENT IS UNAVOIDABLE, AND CAN BE HEARD, CONTINE TO HOURS BEFORE 7 A.M. AND AFTER 6 P.M. MONDAY THROUGH FR OR AS AGREED TO BY BULDING OWNER.
THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2 ABC

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

THE CONTRACTOR IS RESPONSIBLE FOR MANTANING A NEAT AND ORDERLY SITE, YARD AND GROUNDS, REMOVE AND DESPOSE LEGALLY OFF SITE AL RUBBISH, WASTE MATERIALS, LITTER, AND ALL FOREIGN SUBSTANCES. REMOVE PETROCHEMIOLA SPILLS, STANS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EYEN-TEXTURED.

Surgracy 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, below for use. Leave roof areas, pipe spaces and other spaces clean and free

FROM DEBRIS ON A DALY BASS.

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

THE TENANT'S INCRESS AND EGRESS OF THE SITE AND/OR BUILDING SHALL BE MAINTAINED THROUGHOUT Construction.

The contractor shall take all measure necessary to maintain pollution control, comply with all governing regulation pertaining to environmental protection, and promptly remove all debris and accumulation of materials resulting from the work.

TEMPORARY 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 USHT AVE NOT AVAILABLE AT THIS SITE. WHEN PERMANENT POWER IS ESTABLISHED, ALL CONTRACTORS MAY USE THE SERVICE CONNECTION FOR PRODUCTION WORK ONLY, PROVIDED THAT ELECTROAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE DISCONNECTED AND PROPERLY STORED DURING NON-WORKING HOURS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOLLET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.

DEMOLITION AND EXISTING STRUCTURAL ALTERATION

Z — ISABALIANT UNITED SPECIFICS

1. GENERAL CONTRACTOR IS TO DEMOUSH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED FOR DEMOLITION IN THE ARCHITECTURAL, CIMIL, ELECTRICAL AND/OR STRUCTURAL DRAWNRS, INCLUDING BELOW GRADE FOUNDATION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE CONTRACTOR SHALL CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE CONTRACTOR CONTRA

EQUIPMENT & MATERIALS.

GENERAL CONTRACTOR IS TO EXERCISE UTMOST CARE DURING DEMOUTION AND PROMPTLY INFORM THE ENGINEER OF ANY DEMATION TO THE EXISTING STRUCTURE FROM WHAT IS SHOWN IN THESE PLANS PROOR TO PROCEEDING WITH THE

wing.

General contractor is solely responsible for the shoring, bracing, promoing lateral support, and for maintaining the interity of the existing structure during all phases of the delocition and construction and shall produc, if required, signed a scaled shop drawnos, by a registered professional engineer, for the shoring of all malls, beans, subbs, roof joists, or other elevated structure, them, that are

HAVING THE SUPPORT BELOW NOTED FOR DEMOUTION.

ANY DAMAGE DUE TO DEMOUTION, OR OTHER CONSTRUCTION ACTIVITIES, DONE TO ANY EXISTING SURFACE TO REMAIN

SHALL BE REPARED TO MAICH EXISTING AT NO ADDITIONAL COST TO THE OWNER.

2.2 CUTTING & PATCHING

1. DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS
SPECIFICALLY INDICATED. DRILL STABS WHERE APPROVED. CORE DRILL CIRCULAR OPENINGS THROUGH CONCRETE SLAB.
LINE DRILL FOR RECTANGULAR OPENINGS. MAKE OPENINGS OF PROPER SIZE FOR CONDUIT, DUCTS, PIPES AND OTHER
THE DESCRIPT TURBURGH OPENINGS. MAKE ALL NEW HOLES OR OPENINGS BE WEATHER TIGHT OR FIRE SAFE AS REQUIRED BY LOOK BUILDING CODES & ORDINANCES.

PREPARE, SUBJET AND RECOVE APPROVAL OF SLEEVES AND OPENING DRAWINGS BEFORE LOCATING SLEEVES AND OPENING DRAWINGS BEFORE LOCATING SLEEVES AND OPENING MAN CONSTRUCTION AND BEFORE DRILLING EXISTING STRUCTURE. SHOW EACH OPENING AND SLEEVE IN

THE ENTIRE PROJECT.

SEAL WATER TIGHT AND PROTECT WITH FIRE PROOFING MATERIALS NEW SLEEVES AND OPENINGS THROUGH ROOFS,

SEAL WATER TIGHT AND PROTECT WITH FIRE PROOFING MATERIALS NEW SLEEVES AND OPENINGS THROUGH ROOFS,

FLOORS AND INFORMACE CLASSS AS REQUIRED BY CODE AND INDUSTRY STANDARDS. ALL FLOOR AND WALL
PENETRATIONS SHALL BE SEALED WITH FIRE RETARDANT COMPOUND MEETING UL CAJSO4S.
THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH

FIRE INVITED ASSOCIATION OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK UNDER THIS CONTRACT AND A NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJUCENT EXISTING SURFACES.

EXCEPT IN SPACE WHERE NO WORK UNDER THIS CONTRACT IS REQUIRED, EXCLOSE EXISTING AND NEW CONDUTS, DUCTS. PIPES AND SIMILAR ITEMS IN FURRING WHERE SUCH ITEMS PASS THROUGH FINISHED SPACES WHETHER OR NOT

FURRING IS INDICATED.

fundame is inducated, and imaginary penetrations shall be done using rotary action only (no hammering action). X-rays are to be taken pror to drillarg. Core locations if regourge shall be chosen so as to avoid cutting any reinforcing bars, firestop floor or wall penetration with two hour rated scalarit to meet ul causoas, provide meatherpropring of any REPAIR, PATCH, FINISH AND/OR REFINISH AS APPLICABLE TO MATCH ADJACENT EXISTING FINISHES THOSE EXISTING

REPAR, PAICH, FINESH AND/OR REFINESH AS APPLICABLE TO MAICH ADJACENT EXISTING FINISHES HISSE STRISS EXISTING
SURFACES DIAMAGED OR RIGH PROPOSED SIRRYACES DURING PERFORMANCE OF THE WORK LINGER THIS CONTRACT,
WHERE CONDUITS, DURIS, PIPES AND SIMILAR TEXES ARE SHOW TO BE INSTALLED IN EXISTING WALLS OR PARTITIONS.
NEATLY CHASE THE WALLS OR PARTITIONS. INSTALL THE TIMES AND PAICH THE WALLS OR PARTITIONS TO MAKE THE
INSTALLATION HOT DISCEPINEE IN THE FINISHED WORK.
WHERE A NEW CUTTING IS NOT SCHEDULED, INSTALL NEW CONDUITS AND PIPES IN EVERY CASE, AND NEW DUCT
WHERE POSSIBLE ADDRE EXISTING CELLUR, REDIME EXISTING CELLUR, BY INSTALL THEN THE PROPOSED AND PROPOSED FOR THE INSTALLATION OF
CONCEALED WORK, REINSTALL REDIMED CELLURG AND PAICH AND REFINISH TO MATCH ADJACENT UNREDIMED WITH.

12. REPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EXISTING RUST AND APPLYING

3 - SITE WORK

3.1 CLEARING AND GRUBBING
1. CLEARING 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 REDIONED. ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION LIMIT SHALL BE REPARED OR REPLACED AT THE CONTRACTOR'S DEPENSE.

THE CONTRACTOR SMALL: PROTECT EXSTING TREES, VEGETATION, LANDSCHING MATERIALS AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING OR REMOVAL WHICH MOST BE DIAMAGED BY CONSTRUCTION ACTIVITIES. THIS LESSTING TREES AND VEGETATION AS RECOMMENDED BY THE ARBORST FOR PROTECTION DURING CONSTRUCTION. CLEAR AND GRUE STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IMPROVEMENT.

CLEAR AND GRUB STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES AND SITE IN STREP AND STOCKPILE TOPOSUL.

PROTECT TEMPORARLY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS AND MONUMENTS.

MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.

PROMDE TEMPORARY PROSON CONTROL SILIATION CONTROL AND DUST CONTROL.

REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS.

2 EXCAVATION AND BACKFILL.
ALL SUTINGLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITINGLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATION APPROVED BY GOVERNING AGENCIES PROOF TO

DISPOSAL.

ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER'S REPRESENTATIVE ON THE
DRAWINGS OR GEOTECHNICAL REPORT RECOMMENDATIONS.

THIS PROJECT INCLUDES:

EXCAVATION, TRENCHING, FILLING, COMPACTING AND GRADING FOR STRUCTURES, SITE IMPROVEMENTS, ACCESS

ROAD AND UTILITIES ALL MATERIALS FOR SUBBASE, DRAINAGE FILL BACK FILL AND GRAVEL FOR SLABS, PAVEMENT AND ROCK EXCAVATION WITHOUT BLASTING.

 ROCK EXCHAINON WITHOUT BUSTING.
 SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.
 REMOVAL AND LEGAL DISPOSAL OF EXCAVATED MATERIALS AS REQUIRED.
 FILL LIVERS THAT REQUIRE COMPACTION SHALL HAVE A MAXIMUM THACKNESS OF 6 INCHES.
 THE COMPACTION UNDER STRUCTURES, BUILDING SLARS, STEEPS, PAVEMENT AND MALRIAN'S SHALL BE 95% MAXIMUM DENSITY, ASTM D-1557, TESTED IN EACH OF THE COMPACTING LIVERS AT EACH COMPACTING SITE, OR AT LEAST IN EACH 100CU, PER YARDS OF MATERIAL VOLUME THE COMPACTED LAYERS SHALL NOT EXCEED 8 INCHES 1

THE COMPACTED LAYERS SHALL NOT EXCEED 8 INCHES.

AREAS THAT ON NOT MEET AST U-1557 REQUIRED/BITS BUST BE RECOMPACTED AT THE CONTRACTOR'S EXPENSES.

ALL TRENCH EXCAVATIONS AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA
REGULATIONS FOR CONSTRUCTION.

WHERE UNSTABLE SOIL CONDITIONS EXIST, LINE THE GRUBBED AREAS WITH GEOTEXTILE FARRIC (MIRAT 500X OR

APPROVED EQUIVALENT) PROOF TO PLICING FILL OR BASE MATERIAL.

THE USE OF EXPLOSIVE IS PROBIBITED ON STE.

ALL EXCAVATION ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIAL, HORIZONTAL, LINDISTURBED AND BE

EXPECTED FOR LODGE MATERIAL MAD EXCESS CORUMN WATER DEVIATEDRALE FOR EXCESS COPUME WATER DULING OF

FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER, DEWATERING FOR EXCESS GROUND WATER SHALL BE PEXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH OTHER MECHANICALLY COMPACTED CRANILLAR

material or concrete of the same quality specified for the foundation. Crushed stone may be used to stabilize the bottom of the excavation. Stone, if used, shall not be used as compluing concrete BACK FILL SHALL USE APPROVED MATERIALS CONSISTING OF LOAM, SANDY CLAY, SAND, GRAVEL OR SOFT SHALE AND SHALL BEFORE FROM CLOOS OR STONES OVER 2 1/2".
 AFTER CONFLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE AND BEFORE BACK FILLING, ALL

EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIALS SUCH AS VEGETATION, DEBRIS. TRASH AND ANY FOREIG

3.3 DRAINGE

1. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINGE AWAY FROM BUILDING OR EQUIPMENT ON THE STE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE STE AT ALL TIMES. ANY DAMAGE TO ADALOEMT PROPERTIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSES.

THE CONTRACTOR SHALL BE BESPONSIBLE FOR DENATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE

ORIGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE RECORD DOCUMEN

ANY DRAIN. FIELD THE OR DRAINAGE STRUCTURE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS

ORGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE RECORD DOCUMENTS.

3.4 EROSON CONTROL

1. CONTRACTOR SHALL PROVIDE ALL EROSON AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CODES
AND ORGINACIOS TO PROTECTE BIBANHOISTIS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN
STREAMS AND DRIVINGE PARTS LEXING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCE,
STRAW BALES, SEDIMENT BARRERS AND CHECK DAMS. EROSION CONTROL MEASURES MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON DRAWINGS WHERE DETERMINED

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

ID OR YROM THE SHE.

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRUCKING OR FLOW OF MUD
ONTO PUBLIC RIGHT OF WAYS. THIS MAY REQUIRE PERSONC TOP DRESSING WITH STONE AS CONDITIONS DELAWNO,
REPAR AND/OR CLEAN OUT OF ANY STRUCTURES USED TO TRAP SEDIMENTS. ALL MATERIALS SPLIED, DROPPED
WASHED OR TRUCKED FROM VEHICLE OFF SITE ONTO ROADWAY OR NITO STORM DRAINS MUST BE REMOVED. MASHED OR TRACKED FROM VEHICLE OFF SITE ONTO ROUDWAY OR INTO STORM DRAINS MUST BE REMOVED.

MANEDATELY AFTER THE ESTABLISHABIT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION CONTROL

DEVICES AND STORMAITER MANAGEMENT DEVICES SIALL BE INSTALLED PROR TO ANY OTHER CONSTRUCTION.

ALL SLIT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL

ALL SLIT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL

BUT BARRIERS INSTALLATION AND DETERMINO FRACULTIES ARE CONSTRUCTED. SLIT BARRIERS SHALL BE PLACED AT ALL

DOWNSTREAM TOE OF CUT AND FILL SLOPES.

THE LOCATION OF SOME EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM WHAT IS SHOWN ON THE

APPROVED DAYS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE

PATTERNS. IT IS THE CONTRACTOR RESPONSIBILITY TO ACCOUNTING PROSON CONTROL. FOR DRAINAGE PATTERN CREATED

AT MEDIUM STACES IN DRIVE CONSTRUCTION AND DESCRIPTION IN CONTROL DEPOSED DRAINAGE

AND RESPONSIBILITY OF ACCOUNTING PROPOSED DRAINAGE

PATTERNS. IT IS THE CONTRACTOR RESPONSIBILITY TO ACCOUNT IN CONTROL PEROSON DIVINGE PATTERN CREATED

AT MEDIUM STACES IN DRIVE CONSTRUCTION AND DESCRIPTION IN CONTROL PEROSON DIVINGE PATTERN CREATED

AT MEDIUM STACES OF THE CONTRACTOR RESPONSIBILITY TO ACCOUNT IN A CONTROLL PROPOSED DRAINAGE PATTERN CREATED

AND THE PROPOSED DRAINAGE PATTERNS DRAING CONSTRUCTION ARE DEPOSED DRAINAGE PATTERN CREATED

AT MEDIUM STACES OF THE PROPOSED DRAINAGE PATTERNS CONSTRUCTION ARE DEPOSED DRAINAGE PATTERN CREATED

AT MEDIUM STACES OF THE PROPOSED DRAINAGE PATTERN CREATED

AND THE PROPOSED DRAINAGE PATTERN CREATED

AND THE PROPOSED DRAINAGE PATTERN CREATED

AND THE PROPOSED DRAINAGE PATTERNS CONSTRUCTION ARE DEPOSED DRAINAGE PATTERN CREATED

AT MEDIUM STACES OF THE PROPOSED DRAINAGE PATTERN CREATED

AT MEDIUM STACES OF THE PROPOSED DRAINAGE PATTERN CREATED

AT MEDIUM STACES OF THE PROPOSED DRAINAGE PATTERN CREATED

AT MEDIUM STACES OF THE PROPOSED DRAINAGE PATTERN CREA

PATIENTS. IT IS THE CONTINUE OF RESPONSIBILITY TO ACCOUNTING THE DRISSING CONTINUE FOR DAWNER PATIENT CREATED AT VARIOUS STAGES DURING CONSTRUCTION, ANY DIFFICULTY IN CONTINUE EROSSON DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER INJURIOUSLY, ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN (7) DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.

THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSSON CONTROL MEASURES SUFFICIENT TO CONTROL SEDURENT DEPOSIT AND EROSSON, ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STRAILIZED WITH PERMANENT VEGETATION AND ALL ORGOS AND DRIVEWAYS HAVE BEEN COMPLETED. THE CONTROLOGY SHALL INSPECT EROSON CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

DATH MORKING DAT TO ENSURE MEASURES ARE FUNCTIONING PROPERTY.

9. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BOING STOPPED ON THE JUB SITE UNITL SUCH MEASURES ARE CORRECTED.

10. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.

UTILIZED FOR EROSION CONTROL.
ALL OPEN SWALES MUST BE GRASSED, AND RP-RAP MUST BE PLACED AS REQUIRED TO CONTROL EROSION, ALL CUT

ALL OPEN SWALES MUST BE GRASSED, AND REP-RAY MUST BE PLACED AS REQUIRED TO CONTROL EROSION, ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN (7) DAYS OF CONSTRUCTION. SEEDING AND MULCHING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A PERSOO OF ONE YEAR. SEEDING DAYS THE SITE FOR A PERSOO OF ONE YEAR. SEEDING DOCUMEN. HE SEEDING OCCURS. IN LIEU OF LAYER SHALL BE LOOSENED BY RAVING, DISKING, DISKING OF OTHER ACCEPTABLE MEANS BEFORE SEEDING OCCURS. IN LIEU OF SOIL TEST RESULTS, APPLY SO LIBS. OF DOLOMITIC LIMESTONE AND 25 LIBS. OF 10-10-10 FERTILIZER PER 1000 SF. HARROW OR DISK LIMESTONE AND FERTILIZER INTO SOIL TO A DEPTH OF AT LEAST 3" ON THE SLOPES FLATTER THAN 3-1.

14. SEEDING: APPLY 5-6 LBS. PER 1000 SF. OF KENTUCKY 31 TALL FESCUE. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDED DRILL CULTIPACKER SEEDER OR HYDROSEEDER (SLURRY INCLUDES SEEDS AND FERTILIZER RECOMMENDED ON STEEP SLOPES ONLY) ON MOIST, FIRM SEEDED, MAXIMAN SEED DEPTH SHOULD BE ½ WHEN USING THE HYDROSEEDER METHOD. RRIGATE UNTIL VECETATION IS PIRMY ESTABLISHED IF SOIL MOSTURE IS NOT SUFFICIENT TO

HTMROSEDER METHOD, IRBIGATE UNIT, VEGETATION IS FIRMLY ESTABLISHED IF SUIL MOISTURE. IS NOT SUPPICIENT TO SUPPORT ADOCIATE GROWITH.

IN CONCENTRATED AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND LENGTH OF 10 FEET OR GREATER, AND CUTS AND FILLS WITHIN STREAM BUFFER, SALL BE STABLISHED WITH THE APPROPRIATE EROSON CONTROL MATTING OR BLUNKET. BIPRAP SHALL BE CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY, MO FREE OF ANY DETRIBUTATION COMMITTY OF SOFT, FRABELE, THAN ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI OR

OTHER DELETERIOUS SUBSTANCES. i <u>Grading</u>

The contractor shall seed the graded areas per dot standards, an si geosolutions land lock CS2 ontrol blanket shall be installed per the manufacturer's instructions. Actor shall provide adequate watering to ensure favorable growth of vegetation for a period

ALL GROUNDING, 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

THE GRADNO TOLERANCE FOR FILL UNDER BUILDING SLABS SHALL BE ±½ INCH MEASURE WITH 10 FT STRACHTEDGE.
THE GRADNO TOLERANCE SOLTSIDE BUILDING LINES SHALL BE ±½ INCH MEASURE WITH 10 FT STRACHTEDGE.
1½ INCH UNDER PAYEMENT.

HE CONTRACTOR IS RESPONSIBLE FOR PEPALBURA AND OF THE CONTRACTOR IS RESPONSIBLE FOR PEPALBURA.

INSTALLATION OF UTILUTIES. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE GREATER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY

ANT PILLS PURED ON EXISTING SLOPE.

BENCHED INTO THE EXISTING SLOPE.

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

PROTECT EXISTING GRAVEL SURFACING AND SUB-GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANGING OR OTHER SURFACING OR SUB-GRADE SURFACING OF SUB-GRADE SURFACING OR SUB-GRADE WHERE SOLIC DURING CONTRACTOR OPERATIONS. DAWLED CO

CONCRETE

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

APPLICABLE CODES: NO 301 – SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

ACI 301 — SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

ACI 318 — BUILDING CODE REQUIREDARTS FOR REDIFFORED CONCRETE

ACI 544.1R — FIBER REDIFFORCED CONCRETE (IF SPECIFED)

MAS 544.2R — MESUREMENT OF PROPERTIES OF FIBER REDIFFORCED CONCRETE (IF SPECIFED)

MAS DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PROR TO PLACING CONCRETE.

CONCRETE SHALL BE NORMAL WEIGHT, 6% ARE ENTRANED (++1.5%) WITH A MAXIMUM OF 4' SLUMP, AND HAVE A

MINIMUM AD DAY COMPRESSES STREAMEN OF 5000 PSI UNLESS OTHERWISE NOTED.

MASTIMUM AGGREGATE SZE SHALL BE 1'.

THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CHIEFTS:

ASTIM A 185 & A 6 15

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

* RIGHTOUS REINFORCEMENT: ASTILL 116 (IF SPECIFIED)
REINFORING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACT 315.
REINFORING SEEL SHALL CONFORM TO ASTILL A 1615, CRADE 60, DEFORMED UNILESS OTHERWISE NOTED. WELDED WIRE FABRIC UNILESS OTHERWISE NOTED. SPLICES SHALL BE CLASS

? AND ALL HOOKS SHALL BE STANDARD, UNO. HE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE.

CONCRETE CAST AGAINST EARTH: 3 IN.

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

#6 AND LARGER: 2 IN.
#5 AND SMALLER AND WHY: 1 ½ IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLABS AND WALL: ½ IN.
BEAUS AND COLUMNS: 1 ½ IN.
A CHAMEER OF ½ IN SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301

SECTION 4.2.4.

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

11. CURRING COMPOUNDS SHALL CONFORM TO ASTIN C-309.

12. ADMIXTURE SHALL CONFORM TO THE APPROPRATE ASTIN STANDARD AS REFERENCED IN ACI-301.

13. DO NOT WELD OR TACKNELD REINFORCING STEEL.

14. ALL DOWNELS, ANCHORS BOLTS, EMBEDMENT STEEL, ELECTRICAL CONDUTTS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE. IN PLACE BEFORE START OF CONCRETE PLACEMENT.

15. LOCATE ADDITIONAL, CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO THE BISINEER.

16. ELECTRON OF THE PROPER SHALL CONTINUOUSLY PROPRISED TO THE DISINEER.

HACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT

PLUCE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
RDINFORCEMENT SALL BE COLD BENT WHEN BENDING IS REQUIRED.
PLUCE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANE OF WEAVISES. VIBRAIE THE CONCRETE TO FLULY EMBED REINFORCING, DO NOT USE VIBRATOR TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMNORK.
DO NOT PLUCE CONCRETE IN PONDING WATER, ICE, OR ON FROZEN GROUND.
FOR COLD WEATHER AND HOT WEATHER CONCRETE PLUCEMENT, CONFORM TO APPLICABLE ACI COOES AND RECOMMENDATIONS. IN EITHER COSE, MATERIAS CONTINING CHURDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED.
PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.

FIBER REINFORCED CONCRETE MIX, IF SPECIFIED, SHALL INCLUDE 1 1/2 LBS OF FIBER PER CUBIC YARD.

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

FL COA#:

CC CHECKED BY: JD

26983

INTERNATIONAL &

1 05/06/13 REVISED PER COMMENTS

DRAWN BY:

0 10/30/12 ISSUED FOR PERMIT REV DATE . DESCRIPTION

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S EMMANUEL PUPE. 154073 ES SENAMUEL POLIUM

II IS A VOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER HE DRECTION OF A LICENSED PROFESSIONAL DIGNERS TO ALTE! HIS DOCUMBEY, UNBES EXPECTIVELY ACREED TO BY ANY SOLUTIONS IN WRITING, ANY SOLUTIONS, INC. DECLAMS ALL LIBERTY ASSOCIATED WHITE HE REVER, ALTERATION OR MODIFICATION OF THE CONTENTS WEEK.

SFL61_3

934 NW 16TH AVENUE FORT LAUDERDALE, FL 33311

SHEET TITLE:

SPECIFICATIONS

SHEET NUMBERS

SP1

13-1621

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REMERAL.
THE CONTRACTOR SHALL PROVIDE ALL LIBOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION
TOOLS, ETC., FOR THE INSTALLATION OF COMPLETE AND PROPERLY OPERATING SYSTEMS.
INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LIMS AND DROMANCES OF ALL AUTHORITIES HAVING JURISDICTION
AND WITH ALL ASSOCIATED UTILITY COMPANY REQULATIONS AND APPLICABLE REQUIREMENTS. INSTALLATION WILL ALSO
COMPLY WITH THE LATEST EDOTIONS OF ALL COORS AND STANDARDS OF THE ENTITIES LISTED ON SHEET SP1, NOTE 2.
THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCES OR DIFFERENCES IN THE CODE. Equirements.

The contractor shall secure all necessary electrical permits and pay all required fees.

Record drawnos: Maintain 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 INSTALLED, RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION IMMAGER UPON COMPLETION OF THE PROJECT.

ALL BROCHLIESS, OPERATION MANUALS, CALLOS, SHOP DEVAININGS, SPECIFICATIONS, ETC., SHALL BE TURNED OVER TO THE CARRIER AT THE COMPLETION OF THE PROJECT.

QUARANTEE, MARRANTHY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC., FOR A PERIOD OF ONE YEAR, FURNISH WARRANTEY SO THE DEFECTIVE MATERIAL AND/OR WORKGLANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON HOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF MARRANTY, IF, AFTER THIRTY (30) DAYS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER RESERVES THE OPTION OF ARRANGING FOR THE NECESSARY REPAIRS AND BOCKCHARGING THE CONTRACTOR FOR THE WORK.

THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, AS NECESSARY.

DO NOT INTERRUPE EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER OF THAT SERVICE AND WRITTEN PERMISSION OF THIS INSTALLATION'S CARRIER.

CHANGES: NO ADDITIONAL COSTS FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANGES OR MODIFICATIONS MADE UNLESS PROOR WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT, ENGINEER OR OWNER IN THE FORM OF A CHANGE ORDER. DRAWINGS: ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED. WORK IN SUCH A MANNER AS REQUIRED FOR THE SATISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY

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

aniestical of the estables. Sust the job site prior to submitting bid, and make a survey of existing conditions which may effect 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 marker as required for the Satisfactory and efficient construction of this project by all trades concerned.

Temporary power- arrange and pay for the carber's temporary power during construction.
Installation shall comply specifically with engineering standards manual any devaitors shall be
brought to the attention of the project images proof to compencement of work.
Procurement verification: Provide an Itemized Certification to the project manager that equipment and
related hardware have been ordered within 24 hours of honce to project or project or
the subcontractor shall honey and obtain necessary authorization from the contractor before

COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

COMBINIONS WORK OF THE AC POWER DISTRIBUTION PARELS.

11.2 INSPECTIONS

1. GENERAL: DURING AND UPON COMPLETION OF WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.

2. INSPECTIONS REQUIRED: AS PER THE LAWS AND REQULATIONS OF THE LOCAL AND/OR STATE ACCORDS HAVING JURISDICTION AT THE PROJECT STE.

3. INSPECTION ASSINCY: PAPROVED BY THE LOCAL AND/OR STATE ACCICES HAVING JURISDICTION AT THE PROJECT STE.

4. CERTIFICATES: SUBJUIT ALL REQUIRED INSPECTION CERTIFICATES TO THE CARRIER AND UTILITY.

4. CERTIFICATES: SIBMIT ALL REQUIRED INSPECTION CERTIFICATES TO THE CARBER AND UTILITY.

13. HAMBERS AND SUPPORTS.

14. MATERIUS: ALL HUNGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSON RESISTANCE BY TREATMENT OR INHERENT PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.

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

recurred).
Installation: Roidly Support and Secure all Material, raceway and Equipment to Building Structure Using Hangers, Supports and Fastemers Sutrable for the USE on Materials and Loads encountered. Provide all Necessary Hardware. Provide Conduit Supports at Maximum 5 ft, o.c. STRUCTURAL MEMBERS: DO NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED

ONE-HOLE STRUCE SUPPORTS: PROMDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS
AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.
ONE-HOLE STRUCE SHALL HOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

11.4 ENCLOSUBES / MRCHAYS

1. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR

DETIENT JUDICADOS.

WRENIAN'S SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER AND RATED NEMA 1 (OR BETTER)
INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SQUARE BY 1-1/4 INCHES DEEP.
OVERS STETSER, AND ORDINANCE.

3. SUMMARINE BUSINESS SUMMARINE BUSINES SHALL BE A MINIOUM SIZE OF 4 INCHES SQUAVE BY 1-1/4 INCHES LEEP.

11. ENDERS. SIETVES AND OPENINGS

1. ECHERAL: PROVIDE ALL HOLES, SLEEVES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL DAMAGED SURFACES TO MATCH SURROUNDING SURFACES.

2. CONDUIT PENETRATIONS: SIZE CORE—PRILLED 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 MEDICAL CONDUITS.

CORE—PRILLED, PROVIDE SLEEVE IN ROUGH 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

SURROUNDING SURFACE.

PROVIDE APPORTUTE MEDITARY CONTROLL STATEMENTS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL WATER INTRUSION. PROMDE FIREPROOF MATERIALS FOR PENETRATIONS REQUIRING A FIRE RATED SEAL. REFER TO CUTTING AND PACIOINEN ONES UNDER SECTION 1 — GENERAL SEAL LUSE THE BUILDING OWNER'S APPROVED IF ANY ROOFFIOP WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNER'S APPROVED ROOFING CONTRACTOR TO PREVENT VOIDING ANY EXISTING ROOFING WARRANTIES, ANY DAMAGE TO THE ESTING ROOFING WARRANTIES, ANY DAMAGE TO THE ESTING ROOFING WARRANTIES, ANY DAMAGE TO THE BUILDING SHELL.

GENERAL PROMDE ALL CUITING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK, THIS INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF

REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS,

USING SKILLED MECHANICS OF THE TRUDES INVOLVED.

DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL PATCHING SHALL BE OF QUALITY EQUAL TO AND OF NATCHING APPEARANCE OF EXISTING CONSTRUCTION

LATCHING APPEARANCE OF EOSTING CONSTRUCTION.

11.6 CONDUCTORS

1. USS 98X CONDUCTIVITY COPPER WITH TYPE XHHW-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. USE PRESSURE—TYPE INSULATED THATS—ON CONNECTORS FOR NO. 10 AWG AND SAMLER, SOLDERESS MECHANICAL TERMINAL LIDGS FOR NO. 8 AWG AND LARGER, ALUMINIAN CONDUCTORS SHALL NOT BE USED.

2. NO BY, INC OR ROMOX CABLE SHALL BE PERMITTED.

3. EACH END OF EVERTY POWER, GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELD WITH COLOR—CODED INSULATION OR ELECTRICAL LAFE (SM BRAND, 1/2 INCH PLASTIC ELECTRICAL LAF WITH MY PROTECTION, OR EQUAL). THE IDENTIFICATION NETHOD SHALL CONFORM WITH NEC AND OSHA AND MATCH EXISTING INSTILLATION REQUIREMENTS.

4. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. REMOVE SHAPE EDGES.

5. ALL CONDUCT SZES SPECIFIED IN THIS DOCUMENT WERE DONE SO TAKING INTO ACCOUNT THE USE OF COPPER

13. CONDUCTORS.

DECIRION SERVICE
GENERAL: COMPLY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.
SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY
COMPANY ANALABLE FAULT CURRENT.

COMPANY AVAILABLE FAULT CURRENT.

CONTRACTOR TO VERREY UTILITY OD. FAULT CURRENT AND ENSURE THAT ALL EQUIPMENT MEETS FAULT CURRENT (AT A MINIMUM ALL EQUIPMENT TO BE 10,000 AC).

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

IDENTIFICATION. IDENTIFY SERVICE DISCONNECTION MEANS WITH PERMANENT NAMEPLATE.

THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTRACTOR SHALL COOREDWANTE THE ACTUAL LOCATION WITH THE ELECTRIC UTILITY.

Contractor shall coordinate the actual location with the electric utility.

Location and arrancements, drawns inducate duagrammatically the desired location of equipment, pixtures, outlets, etc., and are not to be socied. Proper Judgment must be exercised in the execution to ensure the best possible installation.

Panel and destribution board identification: switchboards, panel boards, transformers and distribution sections shall be identified with disparable white on black, laminated, rigid phenouc nameraties with 1/4 inch characters, securely affixed to face of cabinet.

INCH CHARACTERS, SCURELY AFFIXED TO FACE OF CABINET.

11.8 TLEPHONE SERVICE

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

2. THE CONTRACTOR IS RESPONSIBLE FOR MANIOR ARRANGEMENTS WITH THE TELEPHONE UTILITY RELATIVE TO A TIMELY INSTALLATION OF THE INCOMING TELEPHONE SERVICES AND PAYING ALL ASSOCIATED FEES.

3. METALLIC CONDUIT OR TUBING FOR TIL LINES SHALL BE BONDED TO GROUND ON BOTH EDIDS.

1. THE LOCATION SHOWN FOR A TELEPHONE POLE OF CONNECTION TO THE TELCO DEATHER IS CONCEPTUAL USE ONLY. THE CONTRACTOR SHALL CORDINATE THE ACTUAL LOCATION WITH THE TELEPHONE UTILITY.

11.9 CHECKOUT. TISTING AND ADJUSTING

1. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CAPACITY.

CAPACITY.

CONTROLLED SINCH AND COAD CONTER.

WHICH SIE POWER SOUNDERS SWITCH AND COAD CONTER.

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

REPRESENTATIVE.

1.1.0 RACKWY SISTEMS / CONDUIT

1. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PMC CONDUIT, UNDERGROUND PMC CONDUIT SHALL TRANSITION TO ROOD GAMMAZED STEEL CONDUIT OR SCHEDULE 80 PMC CONDUIT BEFORE RISING ABOVE GRADE OR CONCRETE SLAB. EMPSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (RCS) CONDUIT OR SCHEDULE 80 PMC CONDUIT.

2. GRS CONDUITS, WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL ALL FITTIMES SHALL BE SUITABLE FOR USE WITH THERADED ROGO CONDUIT.

3. ELECTRICAL METALLIC TUBBING (ENT) OR RIGID, NONMETALLIC CONDUIT (RIGID PMC SCHEDULE 40, OR RIGID PMC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EMPOSED INDOOR LOCATIONS.

4. ELECTRICAL METALLIC TUBBING (ENT) OR RIGID NONMETALLIC CONDUIT (RIGID PMC SCHEDULE 40) SHALL BE USED FOR CONCRETE INDOOR LOCATIONS.

CONCEALED INDOOR LOCATIONS.

LIQUID-TIGHT FLEXBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE ARRADON OCCURS OR FLEXIBILITY IS NEFFOED.

VBBATION OCCURS OR FLEXIBILITY IS NEEDED.
PUIG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS — 200 LB.
TEST POLYETHYLENE CORO.
ALL CONDUIT ERBORDS SHALL BE MINIMUM OF 24 INCH RADIUS.
ALL METALLIC RACEWAYS SHALL BE GROUNDED PER NEC.
THE CONTRACTOR SHALL FELL PERFY THE BEST AND LEAST DISTUPTIVE ROUTING OF CONDUITS, CABLE TRAYS AND DUCTS. CONDUIT ROUTING IS SHOWN AS A GUIDE CHLY, ACTUAL CONDUIT PLACEMENT IS TO BE DONE IN A

PROFESSIONAL MANNER.

11.11 BELOW GRADE

1. THIS SITE INCLUDES NEW CRITICAL UNDERGROUND ELECTRIC, TELEPHONE AND OTHER SERVICES IN THE WCINITY OF OTHER UNDERGROUND SERVICE OSSIPPION TO THESE FACILITIES. THE CONTRACTOR SHALL TAKE ALL RECESSARY PRECAUTIONS TO INVOID SERVICE USED SHOPING IN THESE FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT ELECTRIC AND TELEPHONE, AND ALL OTHER APPROPRIATE ACENCIES PROOR TO EXCANATION AT THIS SITE.

PROOR TO EXCANATION, A UTILITY MAKE OUT SHALL BE DONE TO LOCATE EASTING UNDERGROUNG UTILITIES. ALL UNDERGROUND UTILITIES MUST BE LOCATED AND MARKED OUT PROOR TO ANY EXCANATION WORK BEING PERFORMED. PHOTOS SHALL BE TAKEN OF ALL UNDERGROUND WORK AND GRAN TO THE CARRED DURING THE SITE'S HANDOFT.

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

MANAGER.
ALL LOW VOLTAGE CONDUIT (600Y OR LESS) SHALL HAVE A MINIMUM BURAL DEPTH OF 24". ALL HICH VOLTAGE CONDUIT (600Y OR MORE) SHALL HAVE A MINIMUM BURAL DEPTH OF 36".
UNDERROUND CONDUIT SHALL BE ENCISED IN REINFORCED CONCRETE IN AREAS OF VEHICLE TRAFFIC. CONCRETE ENCASSEMENT SHALL BE SHAMIUM ALL ARCHIO AND BETWEEN COMDUITS.
ALL BURIED CONDUIT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE. TAPE SHALL BE PLACED 12" ABOVE

CONDUIT FOR EASY IDENTIFICATION.

CONQUIT FOR EASY IDENTIFICATION.

1. THE MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.L.C. RATING HIGHER THAN INCOMING EQUIPMENT A.L.C.

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

3. THE CONTRACTOR SHALL PROVIDE AN ITEMIZED CERTIFICATION TO THE CARRIER OF ALL EQUIPMENT AND RELATED
HARDWARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE CROERED WITHIN 24 HISS OF
THE NOTICE TO PROCEED.

4. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED PLASTIC LABELS, ALL EQUIPMENT SHALL
BE LABELED WITH ITS VOLTAGE RATING, PHASE CONFIGURATION, WISE CONFIGURATION, POWER OR AMPACTLY RATING
AND BRANCH CRICATI TO NUMBERS (I.E., PANELBONDO AND CRICATI TO'S).

5. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GLAVANIZED, EPDYY-COATED OR NON-CORRODNIC; SHALL

MEET OR EXCERTED UL. 514A AND NEWLO S 1: XND BE RATED HEALT (OR BETTER) INDOORS OR

MEET OR DICEED UL 514A AND NEWA OS 1; AND BE RATED NEWA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (MP OR BETTER) OUTDOORS.

NONMETALUE RECEPTACLE SHITCH AND DEVEL BOXES SHALL MEET OR EXCEED NEWA OS 2, AND BE RATED NEWA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (MP OR BETTER) OUTDOORS.

11.1.3 TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS)

1. TVSS DEVICES FOR AC POWER SHALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TVSS DEVICES OR WE UNSUITABLE TVSS DEVICES THE AC POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SIDE

THE AN POWER COMMUNITATION WAS SOFTED SOFTED SOFTED TO THE COMMUNITATION FOR THE MARKETS WITH LIGHTNING ZONE > OR = TO 4, RF TVSS DEVICE SHALL BE INSTALLED AT THE ENTRANCE TO THE SHELTER OR AS CLOSE AS POSSIBLE TO THE BIS CABINET FOR OUTDOOR SITES, TO PROTECT AGAINST LIGHTNING AND

Transport tycitages. A 11 transport tycs device shall be installed at all sites between the Niu and the Bts.

13.— RF AND TOWER APPLICITIONNES INSTALLATION RELATED NOTES
13.1 COMPAL CABLE REQUIREMENTS.
13.1 COMPAL PROMDE ALL USOR, EQUIPMENT, AND MATERIALS NECESSARY FOR RECEMING, INSTALLING, TESTING, AND
ADJUSTING ANTIDHA CABLES FROM THE ANTIDHA TO THE CONNECTIONS AT THE BASE TRANSMISSION SYSTEM ANTIDHA
THIS SHALL INCLUDE ALL EQUIPMENT SHOWN OR REQUIRED FOR A COMPACTE OPERATION SYSTEM. ANTIDHA
CABLES, CONNECTORS, AND FITTING SHALL BE THIRD PARTY FURNISHED COMPONENTS AS SHOWN ON THE BILL OF CABLE HANGERS SHALL BE INSTALLED AT A MAXIMUM 4' SPACING.

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

COADAL CABLE SHALL BE LABELED IN ACCORDANCE WITH CARRIER. ELCTRICAL MATERIALS AND METHODS SPECIFICATIONS. ALL MAIN CABLES WILL BE COLOR CODED AT FOUR LOCATIONS: A) AT ANTISMA PRIOR TO JUMPER, B) AT THE BOTTON OF THE TOWER, C) EXTENSIVE PART OF THE WAVE QUIDE PURITY PORT (AT THE SHELTER/CABNET WALL), B) INTERIOR OF ME SHELTER/CABNET. PROVIDE AT LEAST B' OF SLACK IN THE MAIN COADAL CABLES AT THE ANTENNA END TO PROMDE

PROVIDE AT LEAST 6" OF SLACK IN THE MAIN COXIAL, CABLES AT THE AMERINA BID TO PROVIDE. FOR FILTING CONNECTOR REPUZACIBENT. INSTALL CONNECTOR STO COXIAL, CABLE AT BOTH BIDS (ANTENNA BID AND BITS LOCATION). UPON SUCCESSFUL COMPRETION OF THE SWEEP TEST, THE CONTRACTOR SHALL PROVIDE A WEATHERMOST SAL ON THE COXX CABLES. THE MINIMUM BEDIONS ROUGH FOR ALL ANTENNA CABLES SHALL BE AS SHOWN BELOW OR PER THE MANUFACTURER, WHICHEVER IS MORE CONSERVATIVE:

CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENDS. CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD.
 GROUNDING

IN AIR OR CABLE TRAY

ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, 8) MIDDLE OF THE CABLE RUN IF OVER 2007; C) PRORT TO ENTERING EQUIPMENT SIGLITER/CABINET (WITHIN 1") OF ENTERY). GROUND STRINES, THE CONNECTIONS SHALL BE MADE MEATHER TIGHT USING WEATHERSPROOF KITS AS DISCIPITED. GROUND PRITALS SHALL BE BROUGHT OUT IN THE DOWNMARD DIRECTION FROM THE CONNECTION TO THE ANTENNE CABLE WITHOUT ANY SHAPE BEINGS (MINIMUM RURUNS 10") AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

IN CONDUC

SHAPP BENDS (MINIMUM RADIUS 10") AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

13.2 ANTENNA REQUIREMENTS:

1. AZIMUTHS ARE ORIENTED CLOCKWISE FROM TRUE NORTH.

2. CONTRACTOR SHALL VERIFY AITEMAN TYPE, AZIMUTHS, AND DOWNTILTS WITH THE CARRIER PRIOR TO CONSTRUCTION.

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

The minimum user from section the second transfer of the second transfer secon PRICE TO WORK ON THIS STRUCTURE.

CONTRACTOR MUST COMPLY WHY THE STANDARD "RF POWER AND LOCKOUT/TAGOUT" PROCEDURES BEFORE ALLOWING

2. CONTRACTOR MUST CONTENT.

CLUBBERS ON THIS STRUCTURE.

3. TOWER CUBBERS WILL NOT BE ALLOWED TO ACCESS TOWER IN ADVERSE WEATHER CONDITIONS, INCLUDING HIGH WINDS, LIGHTINING, RAIN, SNOW ICE OR DURING MIGHT TIME.

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

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

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.

- SITE SPECIFIC NOTES
1 GENERAL
CONSTRUCTION INCLUDES:

WATEHNAS 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
AWG AMERICAN WIRE GAUGE BARE COPPER WIRE BASE TRANSMISSION SYSTEM COAX ISOLATED GROUND BAR, EXTERNAL DIAMETER ELECTRICAL METALLIC TUBING GENERATOR

GENERATOR
GLOBAL POSITIONING SYSTEM
MASTER ISOLATED GROUND BAR
NATIONAL ELECTRIC CODE, LATEST ADOPTED EDITION
POWER PROTECTION CABINET

POLY VINT. CHLORIDE RIGID GALVANIZED STEEL INTERNATIONAL &



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SITE#:

SFL61_3

FORT LAUDERDALE, FL 33311

ADDRESS: 934 NW 16TH AVENUE

SHEET TITLE:

SPECIFICATIONS

SHEET NUMBER:

SP2

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