

TAB 4

Staff Report
Conditional Use Permit (CU0804)
T-Mobile Cellular Communication Antenna
2625 Terra Ceia Bay Boulevard

BACKGROUND:

T-Mobile is a cellular (cell) communication provider in need of an antenna in northwest Palmetto. This area currently has limited cell service. This request is for the approval of three (3) cell antennas to be located on the top of the Estuaries II condominium building. The attached exhibits identify the proposed locations on the rooftop.

The agent for the applicant met with City staff several months prior to the submittal of the application. The request was described consistent with the current application. In addition to determining the application procedure, staff advised that the applicant seek approval from the Homeowners Association prior to applying for the conditional use permit. They have received authorization and now request approval from the City of Palmetto.

GENERAL LOCATION/PARCEL SIZE:

Location: 2625 Terra Ceia Bay Boulevard

EXISTING LAND USE/ZONING CATEGORY:

Future Land Use: PD (Planned Development)
Zoning: PD-H (Planned Development - Housing)

REQUESTED APPROVAL

A conditional use permit may be issued for the establishment of cell antenna pursuant to Articles 15 and 17 of the Land Development Code. The proposed antenna cannot create an unsafe condition or be detrimental to health safety and welfare of the general public. The following conditions have been analyzed in reviewing this request:

- (1) The proposed use shall be consistent with the purpose and intent of the applicable zoning district regulations, this article, and the comprehensive plan. **Cell service has become essential. Locating the antenna on top of an existing building precludes having to construct a separate tower elsewhere. The antenna will be**

elsewhere. The antenna will be screened and unnoticeable. The proposed request is consistent with the review criteria of the PD-H zoning district and PD future land use designation as an appropriate accessory use.

- (2) The proposed use shall be compatible with surrounding land uses and the general character of the area, considering, without limitation, such factors as traffic, lighting, appearance, and effect on surrounding property values. **The antennas are disguised within the architecture of the building and should not have an adverse effect on traffic, lighting, appearance, or surrounding property values.**
- (3) The conditional use will not adversely impact on the public interest or adjacent property and all necessary alternative measures shall be taken by the applicant to prevent any such impact. **There do not appear to be any adverse impacts on the public interest or adjacent properties. This is mitigated by blending the antenna into the design of the building.**
- (4) The conditional use is not discriminatory, considering similar situations in the general area and in past decisions under this article. **This request is not discriminatory. There have been no similar applications or past decisions regarding cell antennas in the general area.**
- (5) The purpose of the requirement is otherwise fully achieved, or more important purposes of this article will be served thereby, or the requirement serves no valid public purpose in the particular case. **The requirement provides a valid public purpose. In this case, however, there are no outstanding issues relative to the health, safety and welfare of the residents. In fact, the lack cell service in a particular area for certain customers can be considered a health, safety and welfare risk.**
- (6) The proposal shall be consistent with the stated purpose and intent of the applicable district regulations and this article. **The proposal is consistent with stated purpose and intent of the PD-H zoning district regulations.**
- (7) The proposal shall comply, where applicable, to the regulations of the zoning district in which the proposed use is most commonly permitted. **The proposed antennas are accessory and attached to the building. Many structures are now securing accessory generators in case of long term power outages. The approval of these antennas is a comparable accessory structure.**
- (8) The proposal shall not create hazardous vehicular or pedestrian traffic conditions or

conditions or any other type of unsafe condition. **The antennas will not create any hazardous vehicular or pedestrian traffic or any other unsafe condition.**

STAFF RECOMMENDATION:

The Estuaries II condominium building was constructed in 1997. The building is approximately 90 feet high where the proposed antennas will be constructed. The structural addition of the antennas will have no detrimental effect on the integrity of the building. Six foot high parapet walls will be constructed around the antennas to screen them from view. The alternative to this request would require the applicant to build a separate structure (tower or monopole) to house the antennas. Staff believes this collocation is clearly a superior alternative. As such, staff recommends approval of the proposed conditional use permit with the following condition:

1. The parapet walls surrounding the antennas shall be consistent with the building in architectural design and color.

PLANNING AND ZONING BOARD RECOMMENDATION:

On August 11, 2008 the Planning and Zoning Board recommended **UNANIMOUS APPROVAL** of the proposed conditional use permit with the stipulation recommended by staff.

CITY COMMISSION

The City Commission shall **APPROVE, APPROVE WITH CONDITION(S) or DENY** the proposed conditional use permit.

Attachments: T-Mobile A2F007-C MPE Statement & Photos

Letter from KCI regarding Structural Evaluation: Estuary Rooftop
Letter from Law Office of Lauralee Westine RE: T-Mobile South
Aerial
Site Plan

CU 08-04

RECEIVED

JUN 2 2008

City of Palmetto
Planning Department



Central & South Florida
Engineering & Operations

Tuesday, November 13, 2007

City Palmetto

Site A2F0770-C MPE Statement

To Whom It May Concern:

T-Mobile's corporate policy, with respect to radiation emission standards, is to construct radio-transmitting facilities compliant with OET-65 standards. OET-65 is the FCC standard regarding RF emissions. Therefore, the proposed PCS facility, A2F0770-C, will be constructed and deployed in compliance with all FCC guidelines with respect to radio frequency emissions, including OET-65. The FCC has granted a "categorical exclusion from testing" for all PCS 1900 facilities where the antenna centerline (ACL) exceeds 10 meters above ground level and the total power of all channels being used does not exceed 2000 watts ERP, which are both applicable for A2F0770-C.

The below excerpts are taken from the OET-65 standard:

OET at 14-15: Tower-mounted ("non-rooftop") antennas that are used for cellular telephone, PCS, and Specialized Mobile Radio (SMR) operations warrant a somewhat different approach for evaluation. While there is no evidence that typical installations in these services cause ground-level exposures in excess of the MPE limits, construction of these towers has been a topic of ongoing public controversy on environmental grounds, and we believe it necessary to ensure that there is no likelihood of excessive exposures from these antennas. Although we believe there is no need to require routine evaluation of towers where antennas are mounted high above the ground, out of an abundance of caution the FCC requires that tower-mounted installations be evaluated if antennas are mounted lower than 10 meters above ground and the total power of all channels being used is over 1000 watts effective radiated power (ERP), or 2000 W ERP for broadband PCS. These height and power combinations were chosen as thresholds recognizing that a theoretically "worst case" site could use many channels and several thousand watts of power. At such power levels a height of 10 meters above ground is not an unreasonable distance for which an evaluation generally would be advisable. For antennas mounted higher than 10 meters, measurement data for cellular facilities have indicated that ground-level power densities are typically hundreds to thousands of times below the new MPE limits.

¹ OET 13: In that regard, all transmitting facilities and devices regulated by this Commission that are the subject of an FCC decision or action (e.g., grant of an application or response to a petition or inquiry) are expected to comply with the appropriate RF radiation exposure guidelines, or, if not, to file an Environmental Assessment (EA) for review under our NEPA procedures, if such is required. It is important to emphasize that the categorical exclusions are *not* exclusions from *compliance* but, rather, exclusions from performing routine evaluations to demonstrate compliance. Normally, the exclusion from performing a routine evaluation will be a sufficient basis for assuming compliance, unless an applicant or licensee is otherwise notified by the Commission or has reason to believe that the excluded transmitter or facility encompasses exceptional characteristics that could cause non-compliance.

While the categorical exclusion relieves a licensee of having to conduct a routine evaluation, it does not relieve the licensee from compliance with the RF exposure limits. Thus, if a licensee has reason to believe its facility may not comply with the exposure limits, notwithstanding a categorical exclusion, the licensee should undertake measures to reduce exposure in accordance with the FCC rules.

Sincerely,

A handwritten signature in black ink, appearing to read 'Shon L. Sparks', followed by a long horizontal line extending to the right.

Shon L. Sparks
RF Engineering
T-Mobile USA



November 13, 2007

To Whom It May Concern:

In attempts to better serve our customers, T-Mobile Engineering continuously analyzes existing network coverage and its deficiencies. In the course of these efforts T-Mobile Engineering will use several sources of data including Customer Service logged customer complaints and service-level prediction data. These particular metrics and techniques hold a great amount of weight in determining the focus of T-Mobile's limited resources to best serve the needs of our customers - efficiently and effectively.

While analyzing our network in Manatee County, T-Mobile Engineering has determined there is a demand for improved in-building coverage west of Blackstone Park near 21st Street West and 24th Avenue West. Customer complaints and increasing network traffic are the two most significant metrics that support this type of coverage demand determination.

In addition, our engineering data has determined that Enhanced 911 services would be improved in this area only with the addition of this proposed cell tower and its associated equipment. Our objective is to provide mobile phone users the most accurate emergency 911 location services possible.

Recently, T-Mobile has determined that there is an appropriate cellular site candidate location that would meet our needs related to service enhancements required in Manatee County. The coordinates for this proposed candidate are listed below.

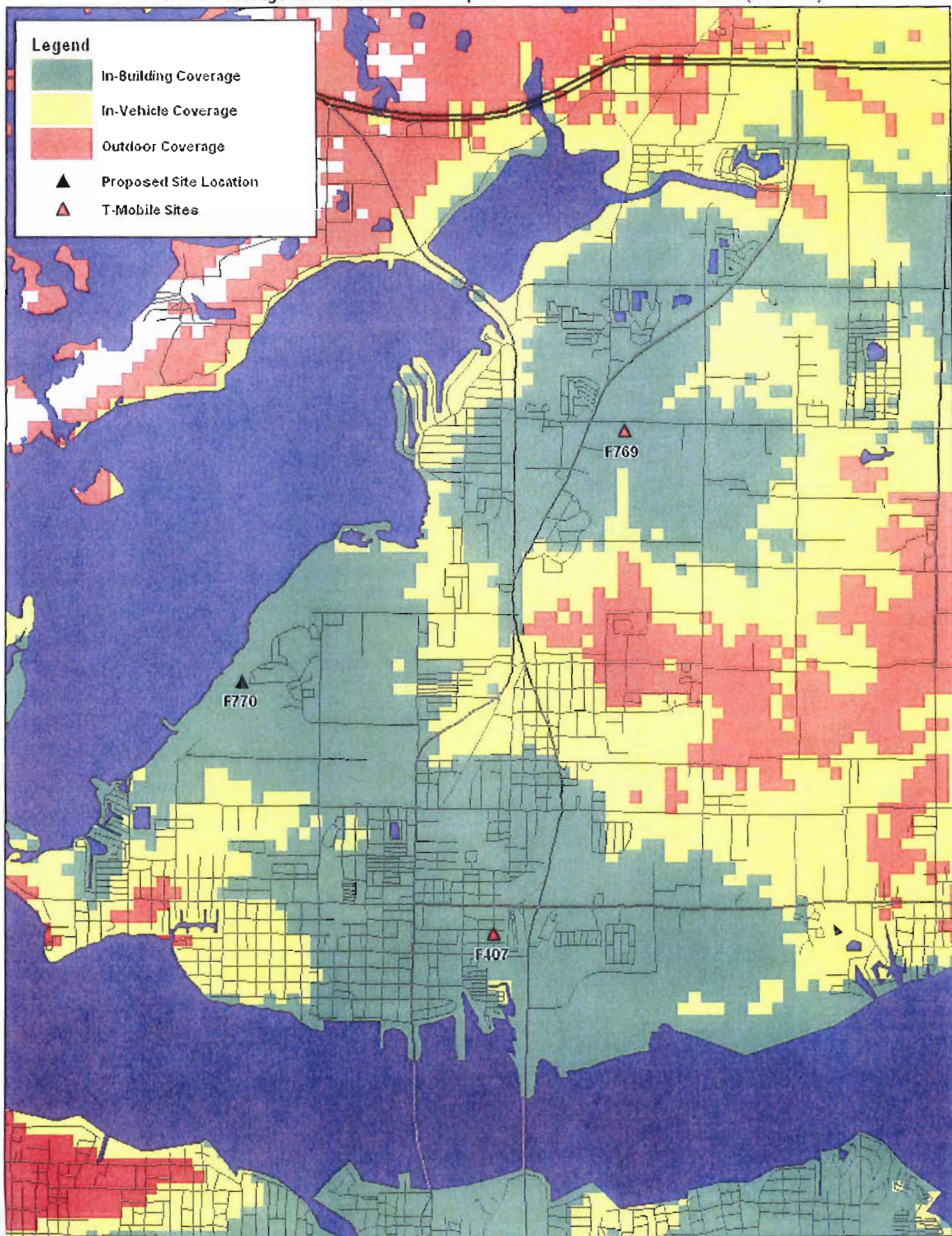
Candidate ID: A2F0770C
Latitude: 27.53801388
Longitude: -82.58774166

Regards,

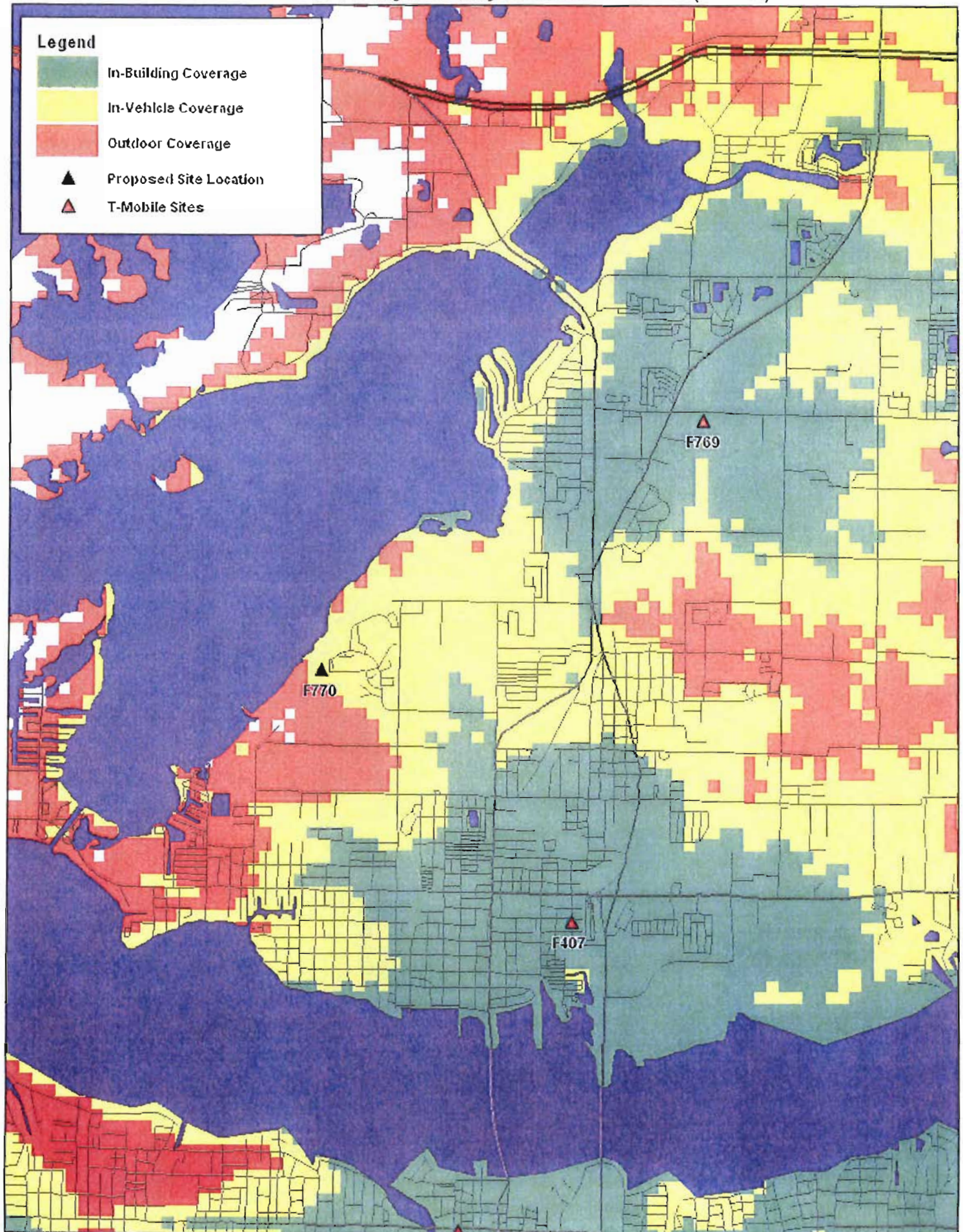
A handwritten signature in black ink, appearing to read 'Shon Sparks', followed by a long horizontal line.

Shon Sparks
T-Mobile RF Engineering
6902 Cypress Park Drive
Tampa, FL 33654

T-Mobile Coverage Enhancement with Proposed Site West of Blackstone Park (Manatee)



Current T-Mobile Coverage Deficiency West of Blackstone Park (Manatee)





AERIAL VIEW
ESTUARY
A2F0770C
T-MOBILE

For visual reference only. Actual visibility is dependant upon weather conditions, season, sunlight and viewer location.



KCI

Technologies, Inc.

Created By: Mike Murphy

**PROPOSED SCREENING TO BE MADE
WITH RF COMPATIBLE MATERIAL AND
TEXTURED AND PAINTED TO MATCH
THE EXISTING BUILDING EXTERIOR**

**PROPOSED ANTENNAS
MOUNTED BEHIND
SCREEN WALL**

VIEW 1

**ESTUARY
A2F0770C
T-MOBILE**

For visual reference only. Actual visibility is
dependant upon weather conditions, season,
sunlight and viewer location.

**PROPOSED SCREENING TO BE MADE
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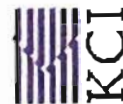
**PROPOSED ANTENNAS
MOUNTED BEHIND
SCREEN WALL**

**PROPOSED ANTENNAS
MOUNTED BEHIND
SCREEN WALL**

VIEW 2

**ESTUARY
A2F0770C
T-MOBILE**

For visual reference only. Actual visibility is
dependant upon weather conditions, season,
sunlight and viewer location.



Technologies, Inc.

Created By: Mike Murphy



ENGINEERS • SCIENTISTS • SURVEYORS • CONSTRUCTION MANAGERS

Landmark Center II, Suite 220 4601 Six Forks Road Raleigh, NC 27609 (919) 783-9214 (919) 783-9266 Fax

22 April, 2008

T-Mobile
Jolene Ratliff
3407 W. Dr. Martin Luther King Blvd.
Tampa, FL 33607

RE: **Structural Evaluation: Estuary Rooftop**
KCI JOB: 10070009AM

Dear Ms. Ratliff:

Pursuant to your request, KCI Technologies, Inc. has completed a structural evaluation of the Estuary rooftop building. T-Mobile is proposing to install communication equipment cabinets on a steel platform and panel antennas concealed by stealth walls connected directly into the existing building parapet walls. They are also adding transmission lines to the existing building rooftop using penetrating roof mounts. KCI utilized a 130 mph wind speed with exposure category 'C' per the 2007 supplements to the 2004 Florida Building Code in the evaluation.

The results of KCI's evaluation indicate that none of the effected components of the structure will exceed the allowable limits based on A.I.S.C, A.C.I and the 2004 Florida Building Code. These results are based on the proposed antennas, transmission lines and platform constructed as shown in the construction documents by KCI, job number 10070009AM.

If you have any questions or need additional information, please do not hesitate to call me at (919) 783-9214.

Sincerely,

Robert A. Prueitt, P.E.
Associate
License Number: 59754

CU-08-04

Law Office of
LAURALEE G. WESTINE, P.A.

800 Tarpon Woods Blvd., Ste E-1
Palm Harbor, Florida 34685

Telephone: (727)773-2221
Facsimile: (727)773-2616

SENT VIA HAND DELIVERY

June 2, 2008

Frank Woodward II, Deputy Director
City of Palmetto Public Works Department
600 17th Street West
Palmetto, Florida 34221

SENT VIA
HAND DELIVERY
JUN 2 2008
City of Palmetto
Public Works Department

Robert M. Schmitt
City of Palmetto
600 17th Street West
Palmetto, Florida 34221

RE: **T-Mobile South, LLC Site Number: F770**
Conditional Use Application for Roof Top Antenna Collocation
2625 Terra Ceia Bay Blvd, Palmetto, FL 34221

To Whom It May Concern:

Enclosed herein please find the following documentation supporting my client, T-Mobile South, LLC, (T-Mobile) application for a Conditional Use for Antenna's and related facilities located on the roof top of 2625 Terra Ceia Bay Blvd, Palmetto.

1 original and 5 copies of the following unless otherwise noted:

- Application for Conditional Use
- Agent of Record Letter from The Estuaries II Condominium Association, Inc to Lauralee G. Westine, Esq.
- Agent of Record Letter from T-Mobile South, LLC. to Lauralee G. Westine, Esq.
- Corporate Warranty Deed
- Rooftop Lease with Option between The Estuaries II Condominium Association, Inc and T-Mobile South LLC
- 5 sets of T-Mobile RF Package
- 5 sets of Photosimulations
- Structural Letter from KCI
- List of names and addresses of owners within 300' of parent tract
- 5 sets of Full Size Site Plans
- Title Report (on CD)
- CD of Documents
- 5 Property Appraisal Reports

Summary of Project

T-Mobile is requesting the approval of a Conditional Use application to construct Antennas, Screened Wall and related equipment cabinets with a platform located on the rooftop of The Estuary Condominium at 2625 Terra Ceia Bay Blvd, Palmetto. The parcel is owned The Estuaries II Condominium Association, Inc by Parcel Number 2412711505. The parent tract is zoned PD-H and consists of 1.6 acres. The surrounding parcels are zoned PD-H.

Land Development Code Criteria

This application meets the requirements of the City of Palmetto Land Development Code for a Conditional Use as follows:

ARTICLE XVII. TELECOMMUNICATIONS TOWERS, ANTENNAE AND FACILITIES REGULATIONS

Sec. 17.1. Purpose.

The purpose and intent of this article is to provide a uniform and comprehensive set of standards for the development and installation of telecommunications towers, antennae and related facilities. The regulations contained herein are designed to protect and promote public health, safety, community welfare and the aesthetic quality of the city, while at the same time not unduly restricting the development of needed telecommunications facilities and encouraging managed development of telecommunications infrastructure.

T-Mobile's proposed collocation of antennas on the existing rooftop shall be screened so as to protect the aesthetic quality of the city. The location of the antennas will also provide for wireless users in the area of the proposed site to utilize their mobile phones in the event of an emergency and be located more easily by the E911 system.

Building mounted antenna shall mean any antenna, as defined herein, directly attached or affixed to a building or structure. The building mounted antenna shall not be higher than twenty (20) feet above the roof, unless a conditional use permit is applied for and granted.

The proposed T-Mobile antennas shall be located less than 10' above the existing height of the roof. The antennas and equipment shall be screening behind a decorative wall which blends into the aesthetics of the existing building. See Photo simulations.

Existing structure shall mean any building or other structure, other than a tower, which can be used for location of wireless telecommunications facilities.

T-Mobile is proposing to collocate its antennas on the existing structure of The Estuary Condominium located at 2625 Terra Ceia Bay Blvd, Palmetto.

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Sec. 17.3. Application procedure.

All applications for a telecommunication facility must contain the following information.

(1) Plot plan which shows all structures and identifies land usage within five hundred (500) feet of the property boundary of the telecommunication facility.

T-Mobile is proposing to collocate antennas on an existing rooftop which will not affect any existing land use or abutting land use.

(2) A written report including a description of any tower proposed with technical reasons which supports its design in relation to its proposed site.

T-Mobile is not proposing a new tower. It is proposing to collocate its antennas on an existing building which meets the engineering needs for its network. See T-Mobile RF package.

(3) Documentation establishing the structural integrity of the tower or the structure on which the antenna is to be mounted.

T-Mobile is not proposing a new tower, rather please see KCI Structural Evaluation Letter dated April 22, 2008 stating that the rooftop is structurally capable of supporting the antennas and the associated equipment and screen walls.

(4) General capacity of the proposed tower design and the information necessary to assure that American National Standards Institute (ANSI) standards are met.

Please see KCI letter noted above.

(5) A statement of intent on whether co-location space will be available and information regarding proposed co-locators.

T-Mobile is merely a collocater on this existing rooftop. The landowner has the ability to lease additional rooftop space if necessary and requested.

(6) Proof of ownership of the proposed site or proof of authorization to utilize it including copies of any lease agreements.

See Rooftop Lease with Option.

(7) A review deposit of two thousand five hundred dollars (\$2,500.00). All work performed by city employees and city consultants directly and reasonably attributable to review of a telecommunication facility application shall be paid by the applicant. Fees will be based upon the hourly rate of pay of each employee performing the work multiplied by the number of hours worked multiplied by thirty-three and seventeen-hundredths (33.17) percent except for the city attorney and consultant review time which will be charged at actual cost to the city. Any balance due over the established deposit amount will be billed. Any amount under the deposit amount will be refunded.

T-Mobile is not proposing a new tower, rather they are proposing a collocation. This fee is not applicable to collocations.

(8) Copies of any easements necessary.
See Rooftop Lease with Option.

(9) The fiber optic network, if any, utilized by the facility and the names and addresses of the back haul providers.
Verizon

(10) All structures shall be designed to meet or exceed the standards established by the Standard Building Code and the city's building code.
See Page T-1 Structural Note 1.

(11) Plans must be sealed by a professional engineer registered in the state.
See Page T-1.

(12) Copies of all approvals issued by other agencies with jurisdiction including but not limited to FCC and FAA.
Proof of FCC limitations are outlined in the RF package provided. Rooftop facilities are not required to be filed with the FAA.

(13) Those telecommunication facilities which are required to obtain a conditional use permit must also comply with the requirements of Article XV of the city's zoning code.
See supporting documentation submitted and explanation below.

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Sec. 17.4. Use regulations.

The following use regulations shall apply to telecommunication facilities:

(1) Telecommunication facilities may be permitted as a conditional use in the public, office, commercial and industrial zoning districts as established in the zoning code; provided, however that building mounted antennae as defined herein are allowed as permitted uses in the public, office, commercial, and industrial zoning districts provided the requirements of this article are met.

Although it is the intent of the Land Development Code (LDC) that carriers seek to collocate on existing structures prior constructing new towers, this portion of the LDC is silent as to the approval process of rooftop antennas on PD-H parcels. As such, after discussions with staff, T-Mobile is applying for a Condition Use to add antennas, equipment and screening walls to the existing building located at 2625 Terra Ceia Bay Blvd, Palmetto. The LDC allows antennas to be collocated on existing structures as permitted uses so long as the antennas do not exceed the height of the roof by greater than 20'. T-Mobile's proposed antennas will exceed the height of the roof by 10'.

...

Sec. 17.5. Co-location; availability of suitable existing structures.

No new telecommunication tower shall be permitted unless the applicant demonstrates that no existing tower or structure regardless of whether it is located within the city can accommodate the applicant's proposed antenna. All evidence submitted shall be signed and sealed by appropriate licensed professionals or qualified industry experts. Evidence submitted to demonstrate that no existing tower or structure can accommodate the proposed antenna shall consist of one or more of the following:

- (1) That no existing towers or suitable alternative structures are located within the geographic antenna placement area required to meet the applicant's engineering requirements.
- (2) That existing towers or structures are not of sufficient height to meet the applicant's engineering requirements.
- (3) That existing towers or structures do not have sufficient structural strength to support the applicant's antenna and related equipment.
- (4) That the applicant's proposed antenna(s) would cause electromagnetic interference with the antennae on the existing towers or structures, or the antennae on the existing towers or structures would cause interference with the applicant's proposed antenna.
- (5) That the cost or contractual provisions required by the tower owner to use an existing tower or structure or to adapt an existing tower or structure for shared use are unreasonable. Costs exceeding new tower development are presumed to be unreasonable.

T-Mobile is proposing to collocate antennas on an existing structure and is not proposing to construct a new telecommunication tower.

Sec. 17.6. Standards of approval of all telecommunication facilities.

The following standards shall apply to approval of all telecommunication facilities.

(1) The applicant shall demonstrate, using the latest technological evidence, why the antenna or tower must be placed in a proposed location in order to serve its necessary function in the company's grid system. Part of the demonstration shall include a drawing showing the boundaries of the area around the proposed location which would also permit the antenna to function properly in the company's grid system. The area shall be considered the allowable zone. **See T-Mobile RF Package.**

...

(8) Adequate parking shall be required for users of the tower and such maintenance personnel as normal operations require. If the site is not fully automated, the number of required parking spaces shall equal the number of employees working on the largest shift.

The Estuary has adequate parking for the required maintenance personnel of this proposed unmanned facility.

(9) The owner of property used as a telecommunication facility shall maintain such property and all structures in good condition and free of trash, outdoor storage, weeds and other debris. **T-Mobile will comply with this provision of the code.**

...

Sec. 17.7. Change of ownership.

Any owner of a telecommunication facility shall be required to notify the city of its intent in writing within thirty (30) days of any transfer, merger or change of ownership. The new owner must fully comply with all provisions of this article and acknowledge in writing acceptance of the conditional use permit.

(Ord. No. 618, § 4, 8-3-98)

T-Mobile shall comply with this provision of the code.

Sec. 17.8. Annual report.

The owner of each company operating a telecommunications facility must provide current information on the facility by the first of October each year by filing an annual report and paying a registration fee of five hundred dollars (\$500.00). This annual registration process consists of providing a list of all users of the telecommunications facility with names, addresses and phone numbers of responsible management personnel. Each user shall provide the city with a copy of each user's license with the FCC. Each telecommunication facility must submit annual registration separately. No approval will be granted to any annual report unless proof of current FCC license is provided. All owners of telecommunication facilities must also obtain an occupational license from the city.

T-Mobile is not proposing to construct a new tower, as such this provision is not applicable.

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Sec. 17.9. Aesthetics.

The provision of this section shall govern the design and construction of all telecommunication towers, and the installation of all antennae, governed by this article.

(1) Towers and/or antennae shall either maintain a galvanized steel or concrete finish or, subject to any applicable standards of the FAA, be painted a neutral color so as to reduce visual obtrusiveness.

T-Mobile is proposing rooftop antennas that shall be located behind a screen wall which shall blend with the existing building. See Page A-1 and Photo simulations.

(2) The design of all telecommunication equipment buildings, towers, and related structures shall use materials, colors, textures, screening, and landscaping that will blend the tower facilities to the natural setting and building environment.

See submitted site plans and Photo simulations.

(3) For antennae installed on a structure other than a tower, the antenna and supporting electrical and mechanical ground equipment shall be of a neutral color so as to make the antenna and related equipment visually unobtrusive.

T-Mobile is proposing the antennas and related equipment be located behind a screen wall which will blend with the existing building. See Page A-1 and Photo simulations.

(4) Towers shall not be artificially lighted, unless required by the FAA or other applicable authority. If lighting is required, the governing authority may review the available lighting alternatives and approve the design that would cause the least disturbance to the surrounding views.

NA. T-Mobile is not proposing a new tower, rather a rooftop antenna collocation.

(5) No signage or other identifying markings of a commercial nature shall be permitted upon any tower or antennae within the city.

T-Mobile will comply with this provision of the code.

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Sec. 17.10. Setbacks and separation.

The following setbacks and separation requirements shall apply to all telecommunication towers and facilities.

...

(4) Antennae which are mounted on existing structures (i.e. water towers or other tall structures) must meet the minimum setback requirements for the district in which the structure is located.

T-Mobile is located on the existing rooftop and will not change the existing setbacks established.

...

Sec. 17.14. Building codes--Safety standards.

To ensure the structural integrity of towers and antennae, the owner of a tower or antennae shall ensure that it is maintained in compliance with standards contained in applicable local building codes and the applicable standards for towers and antennae that are published by the Electronic Industries Association, as amended from time to time. If a tower or antennae fails to comply with all applicable codes and standards, or constitutes a danger to persons or property, then upon receipt of written notice the owner, of the telecommunications facility, shall have fifteen (15) days to bring the facility into compliance with such standards. If the owner, fails to bring the facility into compliance within the fifteen (15) days, the city may remove the facility at the owner's expense. Prior to the removal of any facility, the city may consider detailed plans submitted by the owner, for repair of substandard facilities, and may grant a reasonable extension as determined by the city council of the above referenced compliance period. A lien may be placed on the property to recover said costs.

See KCI Structural Evaluation Letter dated April 22, 2008.

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Sec. 17.15. Abandonment of towers, antennae and facilities.

(1) Any owner of a telecommunication facility shall notify the city of its intent in writing of any cessation of business or discontinued use and the date such use will cease. If at any time the use of the facility is discontinued for ninety (90) days, the city may declare the facility abandoned.

(This excludes any dormancy period between construction and the initial use of the facility.)

"Discontinued" shall mean that the structure has not been properly maintained, has been abandoned, become obsolete, is unused or has ceased the daily activities or operations for which it is permitted. The facility's owner will receive written notice from the city, and be instructed to either re-activate the facility's use within thirty (30) days or dismantle and remove the facility. If reactivation or dismantling does not occur, the city shall schedule a public hearing to determine the action to be taken.

(2) After such hearing has been provided, the city shall have the authority to initiate proceedings to either acquire the facility and any appurtenances attached thereto at the then fair market value, or in the alternative, order the removal of the facility and all appurtenances, at owner's expense. A lien may be placed on the property to recover said costs.

(3) No telecommunications tower shall be constructed, replaced or altered without obtaining the applicable building permits.

T-Mobile shall comply with this provision of the code.

Sec. 17.16. Conditions of permit issuance.

The applicant shall:

(1) Maintain public liability and property damage insurance that protects the applicant and the city; naming the city and the city's officers and agents and employees as an additional insured. The insurance shall provide uninterrupted coverage of not less than five million dollars (\$5,000,000.00) for personal injury to each person and five million dollars (\$5,000,000.00) for each occurrence involving property damage, plus costs of defense. The policy shall provide that the insurance shall not be canceled or materially altered without thirty (30) days written notice first being given to the city.

(2) Maintain on file with city a certificate of the insurance required by section (1) above.

Failure to maintain insurance coverage or to provide proof of insurance shall constitute a violation of this article and grounds for fines and/or revocation of the conditional use permit.

(3) Provide specific performance bond from a company authorized to do business in Florida to the city as guarantee of fulfillment of the owner's obligation to remove the telecommunication tower and facilities upon its abandonment or discontinuation of use. The amount of the bond shall be equal to the removal and disposal cost as certified by a cost estimate submitted by an engineer approved by the city. Failure to maintain such bond or to show proof of such bond upon request of the city shall constitute a violation of this article and shall be grounds for revocation of the conditional use permit. The performance bond may be invoked in accordance with the procedures set forth therein by the city upon a determination by the city council that the tower has been abandoned and that the owner has failed to remove it as required by this article.

(4) Provide a copy FCC's permits or a copy of documents showing the applicant has applied for a permit from the FCC showing their status as a telecommunications provider and/or carrier doing business as either a wireless, PCS or other telecommunications provider. The actual permit must be provided prior to a issuance of a certificate of occupancy by the city.

(5) A copy of the finding from the FAA's aeronautical study determination regarding the proposed telecommunication tower siting.

The aforementioned provisions are not applicable in that T-Mobile is proposing a rooftop collocation and not a new telecommunication tower.

...

ARTICLE XV. CONDITIONAL USES*

...

Sec. 15.3. Standards and procedures.

A. *Site plan:* The site plan requirements shall be the same as required by the Subdivision Ordinance.

Please see submitted site plan.

B. *General regulations:* Parking, sign or other applicable requirements as provided by the Code of Ordinances of the City of Palmetto.

NA to T-Mobile's proposed rooftop collocation application.

Sec. 15.4. Special permits.

A. *Purpose and intent:* This section is established to provide for the granting of special permits where allowed under the provisions of this ordinance. For the purposes of this ordinance, the term "special permit" means a special exception and "special exception" means a use that would not be appropriate generally or without restriction throughout the particular zoning district in which it is allowed, but which, if controlled as to number, area, location, relation to the neighborhood, mode of operation, size, design, establishment, construction, appearance, or similar matters, would promote the public health, safety, comfort, order, appearance, convenience, morals, prosperity, or general welfare.

...

C. *Standards:* The following standards shall apply to all applications for specific permit approval.

a. *Purpose and intent; The Comprehensive Plan:* The proposal shall be consistent with the stated purpose and intent of the applicable district regulations and this ordinance, and consistent with the Comprehensive Plan.

The proposed rooftop collocation is consistent with the Comprehensive Plan in that the additional antennas shall provide residents the ability to use wireless communications in the event of an emergency. The proposed addition of the antennas shall not affect the aesthetics of the building in that the antennas are screened and shall blend into the existing architecture. The proposed antennas shall be located 10' lower than permitted by the land development code.

b. *Applicable district regulations:* The proposal shall comply, where applicable, to the regulations of the zoning district in which the proposed use is most commonly permitted.

See above.

c. *Compatibility:* The proposal shall be compatible with surrounding land uses and the general character of the area, considering, without limitation, such factors as traffic, noise, drainage, dust, lighting, appearance, and effect on property values.

T-Mobiles antennas and equipment will be located on an existing rooftop behind a screen wall which will be designed to blend to match the existing building which will be compatible with the general character of the area and appearance. The proposed collocation will not add any unnecessary traffic, noise, drainage, dust or lighting. Furthermore, the additional of the antennas shall have no adverse property values. See photo simulations and property appraisal reports.

d. *Environment:* The site shall be environmentally suitable for the proposed use and such use shall not have a substantially adverse impact on the natural environment. Soils, drainage, flood hazards, wildlife, and air and water quality shall be among the factors considered in this regard.

T-Mobile's proposed rooftop attachment to an existing building will have no adverse environmental impact.

e. *Orderly development:* The proposal shall be consistent with providing for efficient and orderly development, considering, without limitation, such factors as provision of public facilities and services, growth patterns, and energy conservation.

T-Mobile will be able to provide wireless phone service to the surrounding area and enhanced E911. See T-Mobile RF Package. The proposed rooftop collocation is encouraged as an alternative to a new telecommunication tower in the land development code provisions.

f. *Public facilities and services:* Necessary public facilities and services, such as sanitation, water, drainage, emergency services, education, recreation, and similar facilities and services shall be adequate to serve the proposed use.

This proposed collocation will not require any additional public facilities or services.

g. *Traffic:* The proposal shall not create hazardous vehicular or pedestrian traffic conditions nor result in traffic exceeding the capacity of streets and intersections serving the use.

T-Mobile is proposing an unmanned facility and will only require normal maintenance visits.

h. *Screening and buffering:* The proposal shall include screening and buffering as necessary to minimize adverse impacts on surrounding land uses.

T-Mobile's proposal of locating on an existing rooftop behind a screen wall will have no adverse impacts on the surrounding land uses.

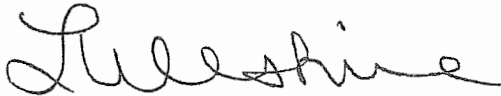
i. *Signs, lighting:* Signs and outdoor lighting which may be involved in the proposal shall be designed to ensure that the use harmoniously fits into its surroundings.

This site will not be required to be lit and will have no commercial signage.

...

In the event that I am able to provide you with additional information or answer any questions that the public may have regarding this application, please not hesitate to contact me or provide my contact information to anyone with questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "L. Westine". The signature is fluid and cursive, with a large initial "L" and a stylized "W".

Lauralee G. Westine, Esq.

enclosures



T-Mobile Tower @ the Estuaries II

City of Palmetto
Development Review Committee
Meeting Minutes
June 11, 2008

PRESENT

Bob Schmitt, City Planner
Frank Woodard, Deputy Director Engineering
Dick Clarke, ZNS Engineering
Duane Kinn, Deputy Director Operations
Matt Bloome, Stormwater Manager
Ken Hawkins, Planner 1
Rusty Tona, NRFD Inspector
Linda Butler, Planning Tech.

Meeting started at 9:00 am

ORDER OF BUSINESS:

1. Discussion/Distribution of Plan:

- a. Resubmittal of request for TC/O Schott mini-Storage (05-437)
 - Team inspection scheduled Thursday, June 19, 2008 @ 9am.
 - At this time NRFD have no issues, but will double check file to be sure
 - Per NRFD the structure is built to fire standards

- b. T-Mobile (CU 0804)
 - There will be no stormwater/sewer issues with this CU
 - Will it have a generator, if so where will it be stored, where will the fuel be stored?
 - Approval was received from Homeowner Association
 - Applicant will come before the DRC on June 25, 2008

- c. Sanctuary Cove Final Plat (05-443F)
 - Go before City Commission on June 16, 2008
 - To be placed in file, County agreed to maintain drainage ditch and agreed with the width
 - NRFD, Mr. Riker is not comfortable with fire flow, the process and procedure has been explained to Linda Svenson and Woodruff & Sons

2. Comments Due

a. C&D Migrant Housing (Construction Plans 1st Submittal) (08-579)

- Invite Andy Allison to the June 25, 2008 DRC meeting to discuss plans
- Will need a 24 ft drive isle
- Providing the building remain a State licensed migrant housing building, it will not need a sprinkler system per NRFD
- Driveway is in bad shape
- Per Duane, he will need a 20 ft rear yard setback for sewer, at this time the site does not meet the 20 ft rear yard setback.
- There will be 4 tree replacement

3. Pre-application Meetings:

a. Andy Norgart and Robb Lee, Richmond American @ 10:00 am River Walk East –(#04-386)

- Per Andy, the bacterial test (bac-t) was performed and has been given clearance by the health department
- DRC suggested the applicant should consider barricading the entrance of the front and both sides
- Applicant will flush the system, re-perform the BAC-T test, resubmit and flush every 30 days thereafter
- Both ponds has to be maintained
- Don't pull filter fabric at this time
- Sewer system smoke test to be performed, please notify NRFD morning of test
- Matt needs easement to be able to maintain ditch, easement is not depicted on plat
- Lot 11, a 25 by 40 easement (manhole) is not recorded, no O.R., book or page number

b. Dave Bartlett with Florida Engineering @ 10:30, Sanctuary Cove

- Plans submitted (1st submittal)
- Dumpster will have concrete paving
- Sales Center, no safe way to connect to sidewalk
- Reviewed all items on the plan requirement

4. Plan Sign Off Review

a. MCAT Transit Station (06-499)

- Need utility resolution, lift station or tie into forcemain.

5. Team Inspection

None

6. New Business

Jim Amerson is planning on constructing a building on the site that the yellow house sits on and will be occupied by Bible Baptist Church as one of the tenants. The yellow house will remain onsite.

7. Old Business

a. Pullen Estates GDP (04-431)

- Brian Cale is scheduled for the June 25, 2008 DRC meeting.

b. Palmetto Town Center FSP (07-574)

- Need development agreement

c. Spacebox @ Palmetto (05-434)

- Need formal submittal
- NRFD have not approved, issue with hydrant distance, one hydrant was not showing on plans
- Per NRFD, assign 1 address and give building numbers to each building
- Monitoring of the dump station; per client, station will have a locking cap and video surveillance. Rental agreement contains language that prohibits occupant from storing any substance or material classified as

hazardous, toxic, controlled or illegal. Occupant agrees that the dump station is for the sole use of occupants of the self storage facility.

- Inquired about securing driving range credit
- Need input on impact fee
- Provide Traffic Study
- Development Agreement will be ready soon.

4. Adjourned: 11:30 a.m.

City of Palmetto
Development Review Committee
Meeting Minutes
June 25, 2008

PRESENT

Bob Schmitt, City Planner
Frank Woodard, Deputy Director Engineering
Dick Clarke, ZNS Engineering
Duane Kinn, Deputy Director Operations
Matt Bloome, Stormwater Manager
Ken Hawkins, Planner 1
Rusty Tona, NRFD Inspector
Linda Butler, Planning Tech.

Meeting started at 9:00 am

ORDER OF BUSINESS:

1. Discussion/Distribution of Plan:

a. Palmetto Riverside Bed & Breakfast (Lippens)(GDP- 08-01)

- Project will go before P&Z on July 14th and to City Commission on July 28, 2008
- The location is the old Brown's house, it will be converted back to a bed and breakfast
- Will have a total of 12 units when it is completed
- Will parking be an issue and what is the off-set? It is 1 space per unit for a total of 9 for phase I, 12 for phase II
- Will it be an increase in capacity/utilities
- Will need easement
- Proposed parking lot area will be paver bricks
- Will the pavers be on property only or go into the right-of-way?
- Stip: if pavers are installed for sidewalk and are later damaged, the City will only replace with concrete, pavers will be used to repair damage only at owners expense
- NRFD will review
- Need a letter from SWFWMD
- Comments due by July 3, 2008

2. Comments Due

a. Sanctuary Cove Community Center 1st Submittal (08-580)

- Per NFRD the community center is 5,800 square feet and will need a sprinkler system. An option will be to break up/divide the building. Suggested firewall off the locker rooms to break up the building
- All fire hydrants needs to be tested, at this time the number are too low for the development
- Tiki hut is ok
- Parking lot will be concrete
- Dumpster will sit next to a house
- Stip: entrance need to be one-way
- Comments are due

b. Sanctuary Cove Sales Center 1st Submittal (08-581)

- Per NFRD stairwell needs to enclosed
- Short on parking spaces
- Need to show auto turn
- Will it be ADA accessible?
- Need crosswalk

c. Pullen Estates GDP 1st Submittal (known as South Pullen)

- Comments has been forwarded

3. Project Follow-up Meetings:

a. Lauralee Westine (T-Mobile CU-08-04) @ 10:00a.m.

- There are no back-up generators
- No comments from utilities
- Approved from NFRD
- No comments from engineering
- Antennas will be placed on three corners of the building
- The lease for the antennas is with Estuary Condominium
- There has been no objection from the tenants

- Antennas will not be visible; the screening will be painted the same color as the building.

b. Andy Allison & Dave Bailey (C & D Migrant Housing 08-579) @ 10:30

- Will go before the P&Z on July 14 and City Commission on July 28, 2008
- Set back need to 20 ft as opposed to 10
- Replacement of waterline/sewer line
- Move building to the left 5 ft
- 24 ft drive isle decrease to 20 ft., parking lot depth decrease from 20 to 18 ft
- Driveway will be moved to side of house, currently in front of house
- Completely re-do parking lot, thicken up the asphalt
- Check density
- If no SWFWMD permit is needed, will need documentation/letter
- Same will be needed for Traffic Study
- No year round tenants, only manager
- Dumpster location
- Landscape will be completely torn out

c. Brian Cales, Whiting Preston (Pullen Estates 04-431)@ 11:00am

- Utilities: sewer on 27th Ave, gravity forcemain
- Installing new lift station, re-route everything to new lift station
- Build pump station
- Private road, private utilities, master meter, gated roads
- Existing ditches will remain and be maintained by homeowner
- Install emergency access if required
- Stormwater will need 25 ft easement
- Construction to possibly start October 2009
- For marketing purpose, possibility of reducing units, lowering height
- Villas will be Mediterranean style
- Parking calc, may need to get a variance

4. Plan Sign Off Review

a. MCAT Transit Station (06-499)

- Need utility resolution, lift station or tie into forcemain.

5. Team Inspection

- a. Discuss inspection from 6/19/08 for TC/O Schott Mini-Storage (05-437)

6. New Business

None

7. Old Business

- a. Spacebox @ Palmetto (05-434)

- Cap/plug water, sewer taps
- Need parking space
- Stripping to show where cars are suppose to park
- Enough room for emergency access

- b. Palmetto Town Center FSP (07-574)

- Need development agreement
- NRFD approved phase 1

4. Adjourned: 12:40 a.m.

T-Mobile

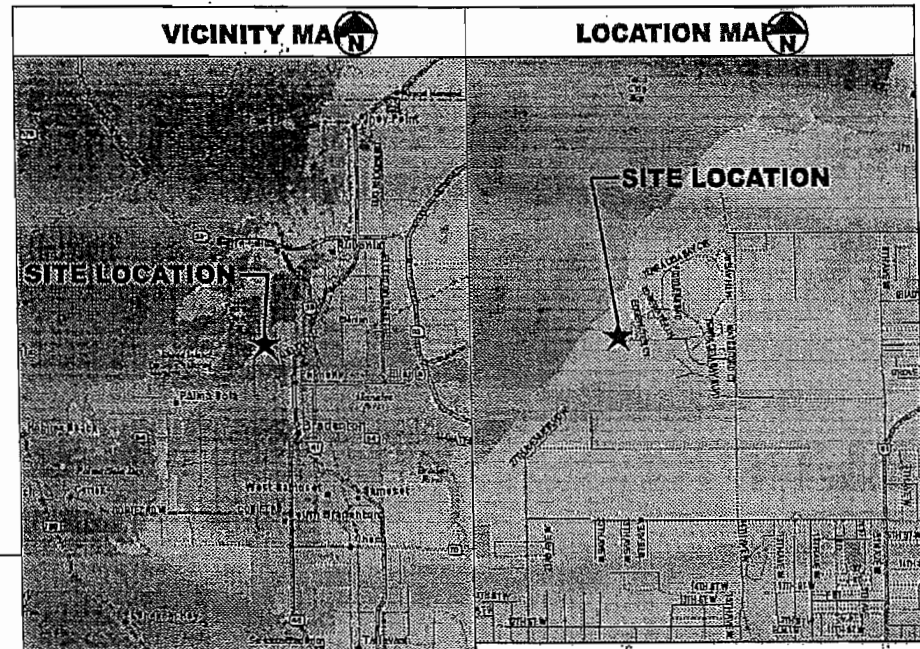
3407 W. DR. MARTIN LUTHER KING BLVD
TAMPA, FL 33607

A2F770-C ESTUARY

2625 TERRA CEIA BAY BLVD
PALMETTO, FLORIDA 34221
PROPOSED COMMUNICATION FACILITY
CO-LOCATE ON EXISTING ROOF TOP

LATITUDE: N 27°32'16.85" (NAD 83) (±15")
LONGITUDE: W 082°35'15.87" (NAD 83) (±15")

BUILDING OWNER:
ESTUARIES II CONDOMINIUM ASSOCIATION
CO HOLMES BEACH PROPERTY MGMT
PO BOX 1607
HOLMES BEACH, FL



GENERAL NOTES	STRUCTURAL NOTES	UTILITIES	ROOF NOTES	T-MOBILE SCOPE OF WORK																						
<p>1. ALL REFERENCES TO OWNER HEREIN SHALL BE CONSTRUED TO MEAN T-MOBILE, INC. OR ITS DESIGNATED REPRESENTATIVE.</p> <p>2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS AGREEMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY THAT HE IS ADEQUATELY QUALIFIED TO PERFORM THE WORK AND THAT HE IS PROPERLY LICENSED AND PROPERLY INSURED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.</p> <p>3. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.</p> <p>4. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.</p> <p>5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.</p> <p>6. ALL EXISTING ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DISCREPANCIES PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE CONTRACTOR'S WORK SHALL BE STOPPED UNTIL THE DISCREPANCIES HAVE BEEN CORRECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY DISCREPANCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY DISCREPANCIES.</p> <p>7. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM DEFECTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT SPECIFICATIONS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE TO THE OWNER AND ENGINEER THAT THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.</p> <p>8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.</p> <p>9. ALL PROPOSED CELLULAR EQUIPMENT AND FEATURES SHALL BE FURNISHED BY OWNER FOR INSTALLATION BY THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.</p> <p>10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.</p> <p>11. RADIO EQUIPMENT INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.</p>	<p>1. DESIGN REQUIREMENTS PER FLORIDA BUILDING CODE (2004 EDITION W/ 2005 & 2006 SUPPLEMENTS) AND THE FLA/11A-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, FLORIDA BUILDING CODE WINDSPEED IS 130 MPH, 3 SECOND GUST.</p> <p>2. APPROXIMATE COMMUNICATION EQUIPMENT WEIGHT IS 5000#. APPROXIMATE DEAD LOAD IS 6500#. IMPORTANCE FACTOR FROM THE FL BUILDING CODE 2004 - 1.15 EXPOSURE CATEGORY FROM THE FL BUILDING CODE 2004 - C.</p> <p>3. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE AISC CODE OF STANDARD PRACTICE.</p> <p>4. STRUCTURAL STEEL PLATES AND SHIMS SHALL CONFORM TO ASTM A572 GRADE 50. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A572 GRADE 50. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A572 GRADE 50. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A572 GRADE 50.</p> <p>5. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D1.1-95. STRUCTURAL WELDING CODE-STEEL WELD ELECTRODES SHALL BE E70XX.</p> <p>6. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.</p> <p>7. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND INFORM OWNER OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.</p> <p>8. HOLES SHALL NOT BE CUT THRU BEAMS UNLESS INDICATED OR APPROVED BY THE ENGINEER.</p> <p>9. UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER HIGH STRENGTH BOLTS (ASTM A325). CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS IN THE SHEAR PLANE.</p> <p>10. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS FOR THE JOB. PRIOR TO THE PREPARATION OF SHOP DRAWINGS, CONDITIONS DIFFER FROM THOSE INDICATED ON THE DRAWING, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.</p> <p>11. ALL STEEL GALVANIZED GRATING TO BE WELDFORMED WELDED RECTANGULAR DESIGN TYPE WB AS MANUFACTURED BY KGS INDUSTRIES, OR APPROVED EQUAL. MAIN BEARING BARS TO BE 1/2" X 1/4" SPACED 1/2" CENTER-TO-CENTER. CROSS BARS TO BE 1/2" X 1/4" SPACED 1/2" CENTER-TO-CENTER. THE BEARING BARS SHALL BE RESISTANCE WELDED AT RIGHT ANGLES TO THE BEARING BARS. THEY SHALL BE SPACED 1/2" CENTER-TO-CENTER. NO NOTCHING OR CUTTING OR BEARING BARS BEFORE WELDING IS PERMITTED.</p> <p>12. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC SPECIFICATIONS.</p> <p>13. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS.</p> <p>14. HOT-DIP GALVANIZE ITEMS SPECIFIED TO BE ZINC-COATED, AFTER FABRICATION WHERE PRACTICAL. GALVANIZING ASTM A 123, ASTM A 153/A 153M OR ASTM A 653/A 653M, G90, AS APPLICABLE.</p> <p>15. REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A 780 OR BY APPLICATION OF STICK OR THICK PASTE MATERIAL, SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZED SURFACES. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS. IN STICK OR PASTE, SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.</p> <p>16. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTRUCTIONS/ SPECIFICATIONS IF NO INFORMATION IS CONTAINED IN THESE PLANS OR IF THE MANUFACTURER'S SPECIFICATIONS ARE STRICTER.</p>	<p>CONTRACTOR SHALL CONTACT A SURFACE UTILITY LOCATOR FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. LOCATION OF EXISTING SEWER, WATER, GAS, CABLES, OR OTHER UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES INCLUDING TEST PITS BY HAND IF NECESSARY IN AREAS OF CONSTRUCTION PRIOR TO ANY WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER IF ANY UTILITIES ARE LOCATED AT THE SITE AT ANY TIME WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.</p> <p>CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH APPROPRIATE UTILITY OWNERS AND CONSTRUCTION MANAGER.</p> <p>DAMAGE BY THE CONTRACTOR TO UTILITIES OR PROPERTY OF OTHERS, INCLUDING EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE CONSTRUCTION CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT. FOR GRASSED AREAS SEED AND MULCH SHALL BE ACCEPTABLE.</p> <p>THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, THE REQUIREMENTS FOR AND LIMITS OF OVERHEAD AND/OR UNDERGROUND ELECTRICAL SERVICE.</p> <p>THE CONTRACTOR SHALL COORDINATE THE LOCATION OF NEW UNDERGROUND TELEPHONE SERVICE WITH THE TELEPHONE UTILITY AND THE OWNER'S REQUIREMENTS.</p> <p>ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND TESTED SATISFACTORILY PRIOR TO COMMENCING ANY PAVING OPERATIONS WHERE SUCH UTILITIES ARE WITHIN THE LIMITS OF PAVEMENT.</p>	<p>1. TEMPORARY ROOF PROTECTION - PROVIDE TEMPORARY PROTECTION USING 3/4" STYROFOAM PADDING AGAINST THE ROOFING MATERIAL WITH 1/2" PLYWOOD BETWEEN THE PADDING AND ANY EQUIPMENT, MATERIALS, AND TOOLS STORED ON THE ROOF. THE ROOF AROUND WORKING AREAS SHALL ALSO BE TEMPORARILY PROTECTED AS WELL AS THE PATHS BETWEEN THE WORK AREA AND ROOF ENTRY DOORS. THE METHOD OF PROTECTION SHALL ALSO COMPLY WITH ANY ROOF WARRANTY THAT MAY BE IN EFFECT. IF PENETRATING SUBSTANCES, SUCH AS ACIDS, CHEMICALS, OR TOOLS ARE TO BE USED DURING CONSTRUCTION, PROVIDE ADDITIONAL PROTECTION TO PREVENT ROOF DAMAGE.</p> <p>2. EXISTING ROOF CONDITION - PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL RECORD THE CONDITION OF THE ROOF BY PHOTOGRAPHING ALL AREAS THAT WILL BE AFFECTED. AT HIS DISCRETION THE CONTRACTOR MAY PHOTOGRAPH ANY OTHER STRUCTURES WITHIN PROXIMITY TO WORK AREAS, IN ORDER TO RECORD THEIR CONDITION ALSO. THESE PHOTOGRAPHS SHALL BE ASSEMBLED IN A NOTEBOOK IDENTIFYING EACH PHOTOGRAPH WITH LOCATION AND OBJECT PICTURED. A SUMMARY OF THE INSPECTION OF THE ROOF STATING ITS CONDITION SHALL ACCOMPANY THE PHOTOS AND SHALL BE PROVIDED TO THE CLIENT PRIOR TO COMMENCING THE WORK. IF THE CONDITION OF THE ROOF IS IN A POOR STATE, THE CONTRACTOR SHALL NOTIFY THE CLIENT IMMEDIATELY. A MEETING WILL BE ARRANGED TO ENSURE WORK WILL PROCEED WITHOUT DISPUTE OF ROOF RESTORATION RESPONSIBILITY.</p> <p>3. WATER PROTECTION - THE CONTRACTOR SHALL PROVIDE PROTECTION FROM WATER PENETRATION DURING THE INSTALLATION OF ROOF PENETRATING SUPPORT SYSTEMS OR ANY OTHER ROOF PENETRATING PROCEDURE. METHODS OF PROTECTION SHALL COMPLY WITH ANY ROOF WARRANTY IN EFFECT.</p> <p>4. FIRE PROTECTION - COMPLY WITH OSHA STANDARDS THROUGHOUT THE PROJECT. WHEN OPERATING TOOLS THAT PRODUCE SPARKS, FLAMES OR HEAT, THE CONTRACTOR SHALL WEAR AN AUTO-IGNITING FIRE EXTINGUISHER WITH IT'S PIN REMOVED AND READY TO USE IN CASE OF A FIRE. THE CONTRACTOR SHALL PROVIDE AT ALL TIMES ONE FULLY CHARGED 20 LB. ABC FIRE EXTINGUISHER WITHIN CLOSE PROXIMITY TO THE WORK AREA. THE CONTRACTOR SHALL KEEP A FIRE EXTINGUISHER LOCATION AND EASILY ACCESSIBLE. PATHS TO THE FIRE EXTINGUISHER AND OTHER FIRE FIGHTING EQUIPMENT SHALL BE KEPT CLEAR.</p> <p>5. REINSTATEMENT - ANY ROOFING, PAVEMENT, FOOTPATH, CURB, GUTTERS, WALLS, FLOORS, SERVICES, AND EXISTING FEATURES OR OTHER PROPERTIES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REINSTATED BY THE CONTRACTOR TO A CONDITION AT LEAST EQUAL TO THAT EXISTING BEFORE COMMENCEMENT OF OPERATIONS AT NO COST TO THE OWNER OR THE CLIENT.</p> <p>6. REPAIR - THE CONTRACTOR SHALL USE THE EXISTING ROOFING WARRANTY CONTRACTOR TO REPAIR ROOF DAMAGE AND ALTERATIONS TO THE ROOF. IF EXISTING ROOFS ARE DAMAGED, THE CONTRACTOR SHALL NOTIFY THE CLIENT IMMEDIATELY. THE CONTRACTOR SHALL NOTIFY THE CLIENT IMMEDIATELY. THE CONTRACTOR SHALL NOTIFY THE CLIENT IMMEDIATELY. THE CONTRACTOR SHALL NOTIFY THE CLIENT IMMEDIATELY.</p> <p>7. REFERENCES - PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ROOFING AND WATERPROOFING MANUAL.</p> <p>8. APPLICATION - APPLY MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.</p> <p>9. CONTRACTOR SHALL REMOVE ONLY THE AMOUNT OF ROOFING AND INSULATION REQUIRED TO PERFORM THE WORK. AFTER THE COMPLETION OF WORK, REPLACE THE DEMOLISHED INSULATION WITH A COMPATIBLE INSULATION PROVIDING A TIGHT JOINT ALL AROUND. FLASH IN NEW BUILT-UP ROOFING TO THE EXISTING BUILT-UP ROOFING AS RECOMMENDED BY THE ROOFING MANUFACTURER TO PROVIDE A WATERTIGHT ROOF.</p> <p>10. CONTRACTOR'S BASE BID SHALL ASSUME ASBESTOS-FREE MATERIALS. IF THE CONTRACTOR SUSPECTS THAT ASBESTOS MATERIALS DO EXIST, THE CONTRACTOR SHALL CONTACT THE OWNER FOR INSTRUCTIONS ON HOW TO PROCEED.</p> <p>11. CONTRACTOR TO X-RAY ROOF BEFORE ANY CONCRETE PENETRATIONS ARE MADE.</p>	<p>1. CONTRACTOR WILL PROVIDE AND INSTALL THE 90° - TRANSITION BOX AND THE FLEX CONDUIT (1/2" POWER, 1" TELCO) BETWEEN THE SIDE OF THE SLAB/PLATFORM AND THE PURCELL CABINET.</p> <p>2. CONTRACTOR WILL WIRE THE POWER SIDE OF THE PURCELL CABINET AS PART OF THE ELECTRICAL INSTALLATION AND PROVIDE A PULL STRING INTO THE PURCELL CABINET FOR THE TELCO.</p> <p>3. CONNECTOR INSTALLERS MUST HAVE A CURRENT EUPEN CERTIFICATION AND HAVE PROOF OF SUCH ON THE JOB SITE.</p> <p>4. CONTRACTOR WILL PRE-TAPE ALL CONNECTORS WITH 1/2" TAPE IMMEDIATELY UPON INSTALLATION.</p> <p>5. CONTRACTOR WILL SET ANTENNA AZIMUTH USING AN ALIGNMENT DEVICE ACCURATE TO 0.1°.</p> <p>6. CONTRACTOR WILL PROVIDE 48 HOURS NOTICE TO SCHEDULE THE SWEEP AND QA TEAM.</p> <p>7. CONTRACTOR WILL PROVIDE A COMPETENT CREW ON SITE DURING THE SWEEP AND QA.</p> <p>8. SWEEP AND QA TEAMS WILL ONLY TEST AND INSPECT. THE CONTRACTOR WILL DO ANY AND ALL REPAIRS/REPLACEMENT.</p> <p>9. SWEEP AND QA TEAM WILL PROVIDE WRITTEN DOCUMENTATION TO THE CONTRACTOR OF ANY DISCREPANCIES AT THE TIME OF INSPECTION.</p> <p>10. CONTRACTOR WILL WEATHERPROOF ALL CONNECTORS WITH 1/2" TAPE, BUTYL AND A FINAL LAYER OF 2" TAPE UPON COMPLETION AND ACCEPTANCE OF THE SWEEP.</p> <p>11. THE GENERAL CONTRACTOR AND HIS SUBCONSULTANTS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK.</p>																						
SITE DATA	SYMBOLS	DEMOLITION NOTES	NEW CONSTRUCTION NOTES	SHEET INDEX																						
<p>POWER: FTL PHONE: VERIZON ZONING: PD-H PARCEL NO: 24171105 JURISDICTION: CITY OF PALMETTO</p>	<p>DETAIL NO. SHEET NO. LOCATION ON</p>	<p>THE AMOUNT OF DUST REPAIRS FROM CUTTING AND JOINING SHALL BE CONTROLLED TO PREVENT THE SPREADING OF DUST TO ADJACENT PORTIONS OF THE BUILDING AND TO AVOID THE CREATION OF A NISSE IN THE SURROUNDING AREAS. PROVIDE DUST CONTROL OR OTHER SUITABLE BARRIERS TO PREVENT DUST FROM TRAVELING TO OTHER PORTIONS OF THE BUILDING.</p> <p>WHERE PENETRATIONS ARE MADE FROM THE NEW CONSTRUCTION THRU AND INTO THE EXISTING SPACES, THE JOINTS SHALL BE ACCOMPISHED IN SUCH A MANNER THAT THE FLOOR, WALL, AND CEILING PLANES ARE NEAT AND FLUSH. THE NEW JOINTS SHALL EXTEND INTO THE EXISTING SPACES SO THAT THE NEW FINISHES TERMINATE AT CORNERS OR OTHER APPROPRIATE JUNCTURES IN PLANE.</p> <p>AS-BUILT CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR.</p>	<p>1. REPAIR/SEAL ALL EXISTING DRAINAGE CONVEYANCES LOCATED WITHIN THE NEW CONSTRUCTION AREA.</p> <p>2. CONTRACTOR MUST VERIFY LOCATION OF EXISTING CONSTRUCTION LOCATIONS OF EXISTING STRUCTURAL MEMBERS SHOWN ON ROOF PLANS HAVE BEEN TAPPED FROM ORIGINAL ARCHITECTURAL DESIGN DRAWINGS AND SHALL BE VERIFIED BY THE CONTRACTOR.</p>	<table><tr><th>DRAWING SHEET NO.</th><th>TITLE</th></tr><tr><td>T-1</td><td>TITLE SHEET</td></tr><tr><td>A-1</td><td>ROOFTOP PLAN</td></tr><tr><td>A-2</td><td>BUILDING ELEVATION</td></tr><tr><td>S-1</td><td>FRAMING PLAN AND DETAILS</td></tr><tr><td>S-2</td><td>SECTION & DETAILS</td></tr><tr><td>S-3</td><td>STRUCTURAL DETAILS</td></tr><tr><td>E-1</td><td>ELECTRICAL NOTES</td></tr><tr><td>E-2</td><td>POWER AND TELCO PLAN</td></tr><tr><td>E-3</td><td>GROUNDING PLAN</td></tr><tr><td>E-4</td><td>ELECTRICAL DETAILS</td></tr></table>	DRAWING SHEET NO.	TITLE	T-1	TITLE SHEET	A-1	ROOFTOP PLAN	A-2	BUILDING ELEVATION	S-1	FRAMING PLAN AND DETAILS	S-2	SECTION & DETAILS	S-3	STRUCTURAL DETAILS	E-1	ELECTRICAL NOTES	E-2	POWER AND TELCO PLAN	E-3	GROUNDING PLAN	E-4	ELECTRICAL DETAILS
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BY: D. REVELS
CHECKED BY: J. FENNEL
APPROVED BY: B. PRUETT

NO. 1
DATE 10/22/07
CONCEPTUAL PLANS ISSUED FOR QA REVIEW

NO. 2
DATE 02/05/08
PRELIM CONST PLANS ISSUED FOR QA REVIEW

NO. 3
DATE 04/21/08
FINAL CONSTRUCTION PLANS ISSUED

NO. 4

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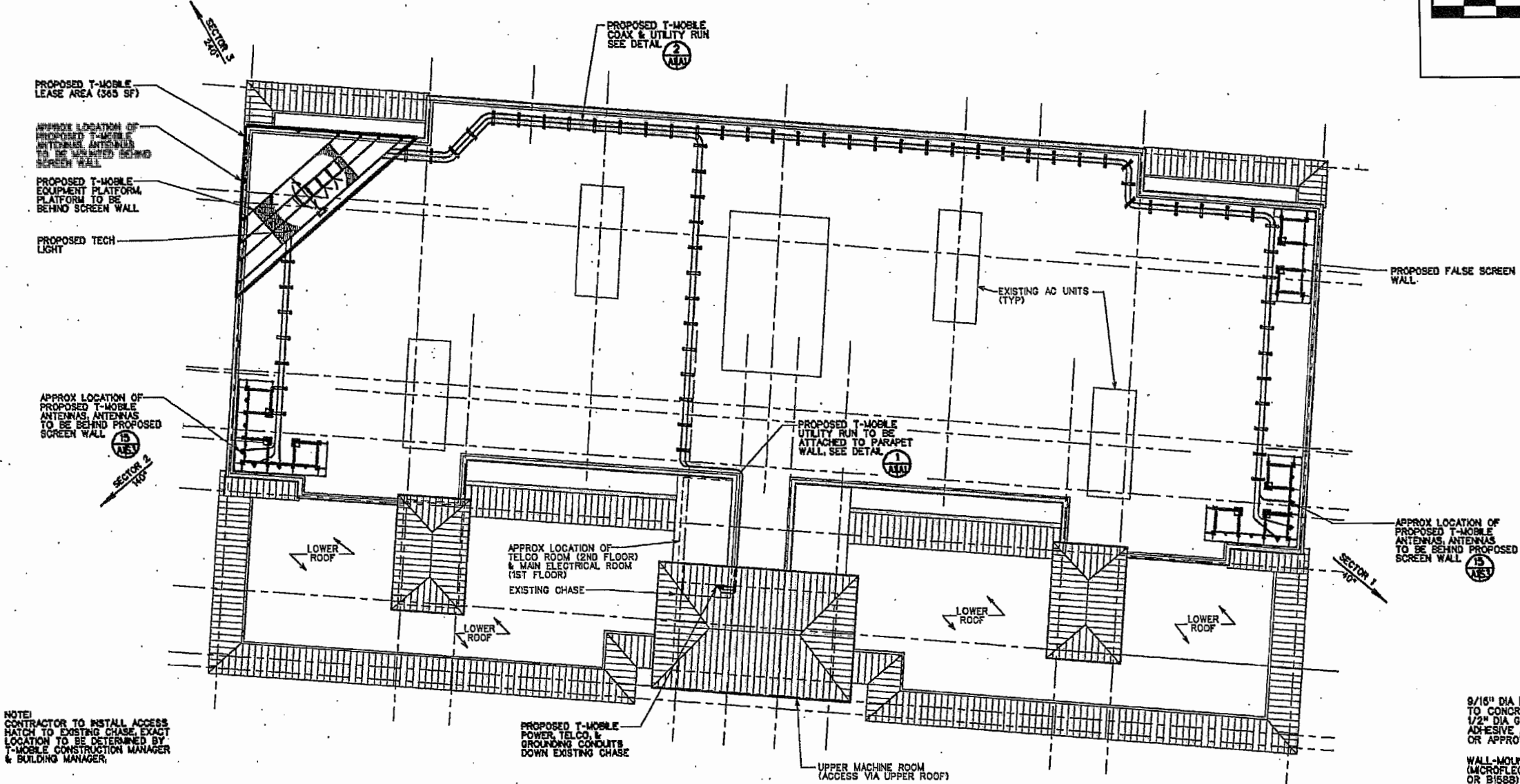
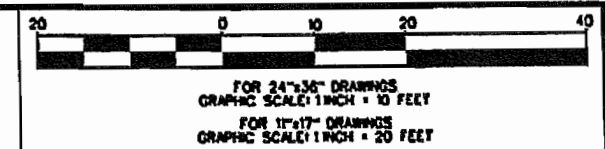
ENGINEER:
ROBERT PRUETT, PE
FL LICENSE NO.: 53764

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SCALE: AS NOTED
DATE: 10-09-07
KCI JOB NUMBER: 10070009AM

SHEET TITLE
TITLE SHEET

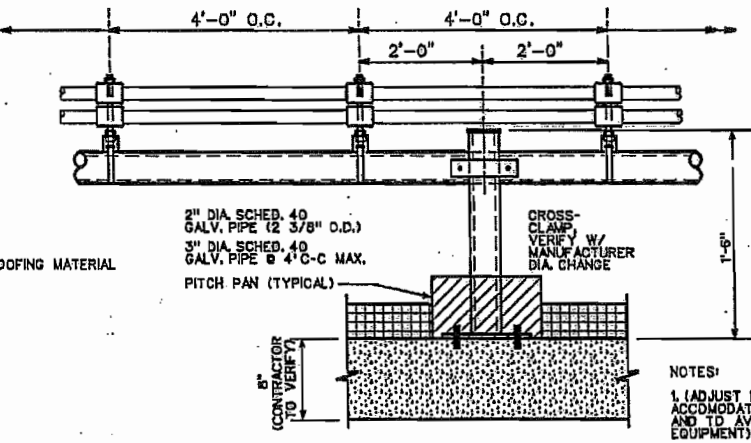
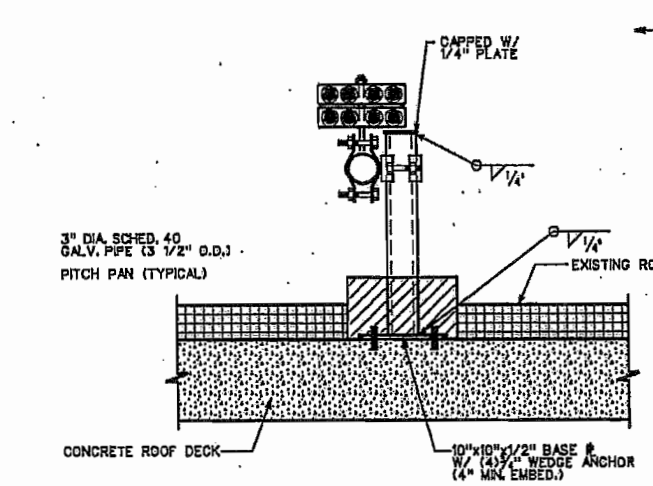
SHEET
T-1



NOTE: CONTRACTOR TO INSTALL ACCESS HATCH TO EXISTING CHASE EXACT LOCATION TO BE DETERMINED BY T-MOBILE CONSTRUCTION MANAGER & BUILDING MANAGER.

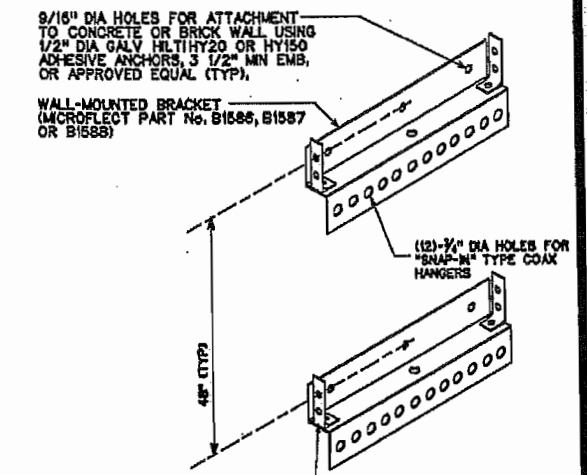
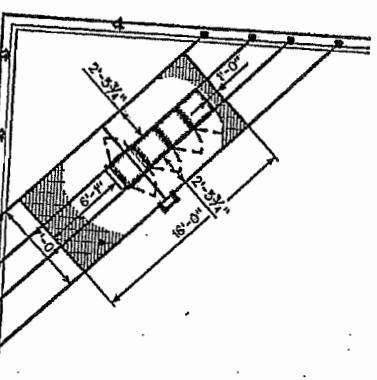
ROOFTOP PLAN
SCALE AS NOTED

NOTE: PRIOR TO CONSTRUCTION, EXISTING ROOF SHALL BE X-RAYED TO LOCATE EXISTING POST-TENSIONING TENDONS. PROPOSED ANCHORS SHALL NOT INTERFERE WITH EXISTING POST-TENSION TENDONS. CONTRACTOR SHALL NOTIFY/CONTACT ENGINEER IF INTERFERENCE IS DETECTED.

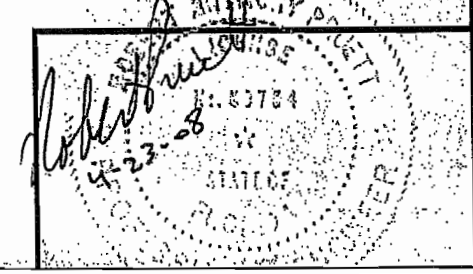


COAX SUPPORT DETAIL (ROOF)
NOT TO SCALE

NOTES:
1. (ADJUST HEIGHT AS REQUIRED TO ACCOMMODATE COAX AND/OR CONDUIT AND TO AVOID EXISTING ROOFTOP EQUIPMENT)
2. UTILITY CONDUITS TO ALSO BE ATTACHED TO SUPPORTS



UTILITIES WALL MOUNT
SCALE: NTS



NO.	1	2	3	4
DATE	10/12/07	02/05/08	04/21/08	
DESCRIPTION	CONCEPTUAL PLANS ISSUED FOR CA REVIEW	PRELIM CONST PLANS ISSUED FOR CA REVIEW	FINAL CONSTRUCTION PLANS ISSUED	
BY:	DR	DR	DR	

DRAWN BY: D. REVELS
CHECKED BY: J. PENNELL
APPROVED BY: B. PRUETT

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ENGINEER: ROBERT PRUETT, PE
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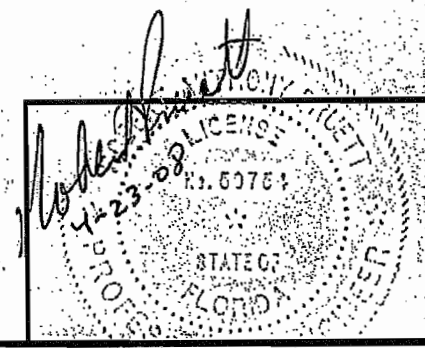
SHEET TITLE:
ROOFTOP PLAN

SHEET:
A-1



CONTRACTOR NOTES:
1. PRIOR TO ANY WORK PERFORMED ON ROOF, CONTRACTOR SHALL NOTIFY BUILDING MAINTENANCE CONTRACTOR FOR CURRENT ROOF WARRANTY REQUIREMENTS.
2. ALL EXPOSED EQUIPMENT AND ANTENNAS SHALL BE PAINTED TO MATCH THE EXISTING BUILDING EXTERIOR.
3. ALL PROPOSED COMMUNICATION EQUIPMENT SHALL COMPLY TO THE 130 MPH, 3 SECOND GUST CATEGORY 'C' WIND FACTOR.
4. BUILDING INFORMATION TAKEN FROM A SET OF PLANS BY GREENING & SAYERS, ARCHITECTS, DATED 1-31-72.

EAST ELEVATION
NOT TO SCALE



NO.	DATE	DESCRIPTION	BY:
1	10/12/07	CONCEPTUAL PLANS ISSUED FOR QA REVIEW	DR
2	02/05/08	PRELIM CONST PLANS ISSUED FOR QA REVIEW	DR
3	04/22/08	FINAL CONSTRUCTION PLANS ISSUED	DR
4			

DRAWN BY: D. REVELS
CHECKED BY: J. FENNEL
APPROVED BY: B. PRUETT

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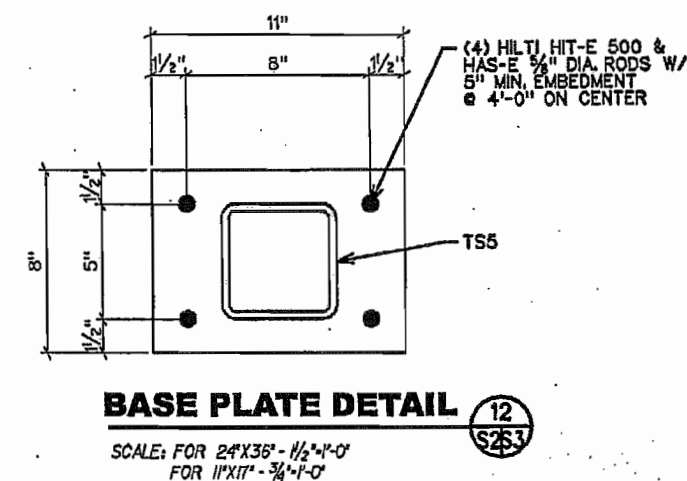
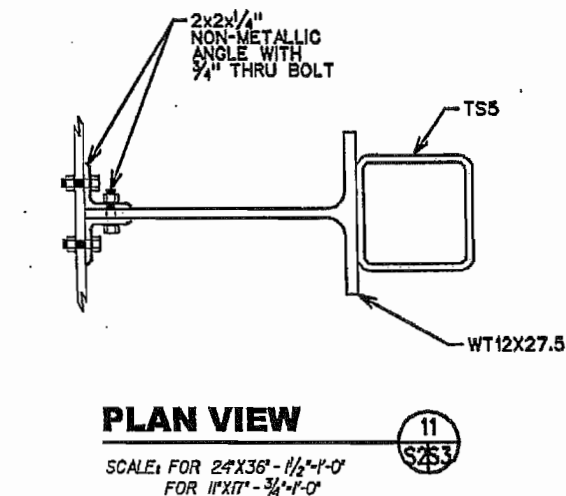
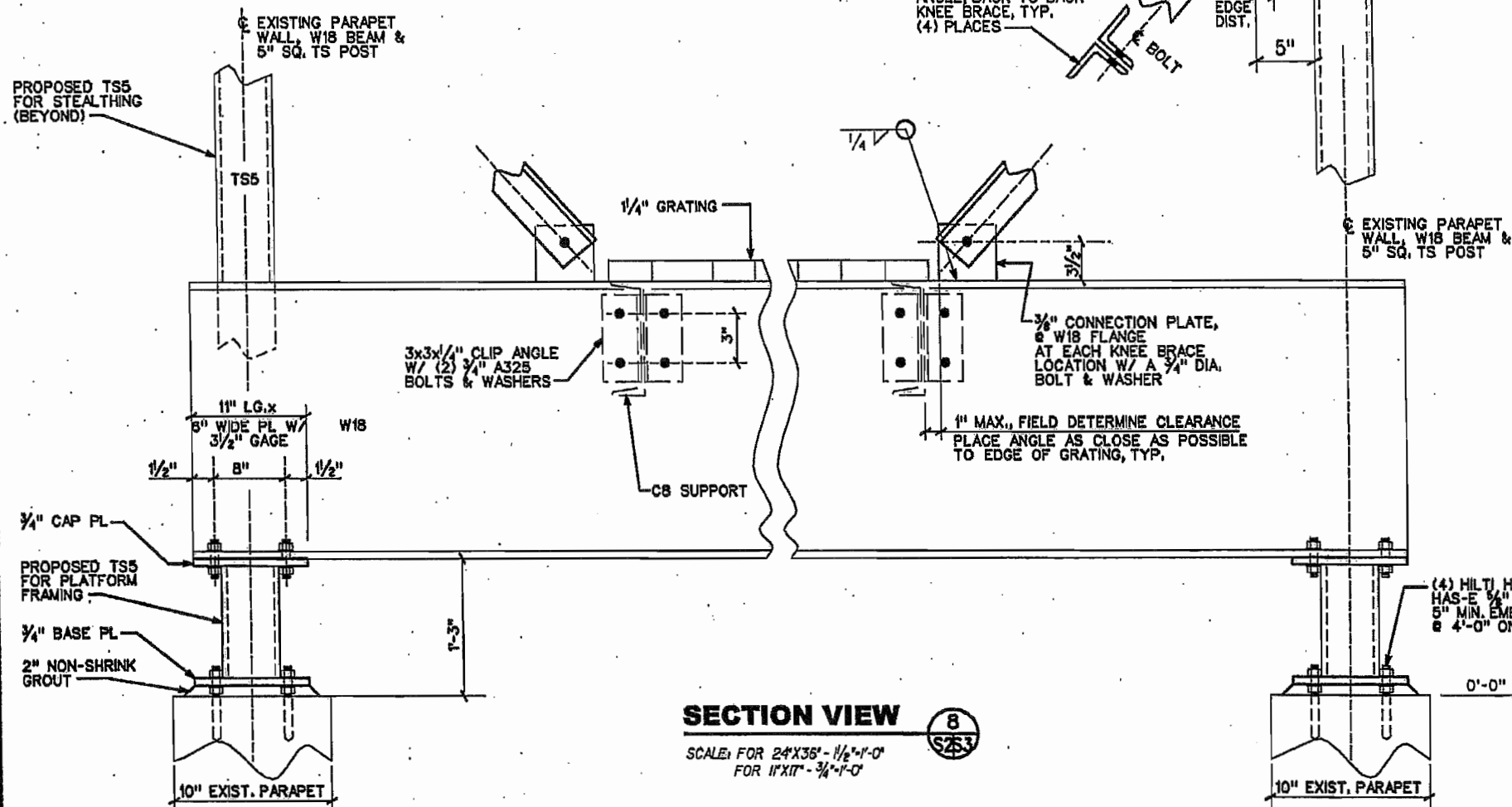
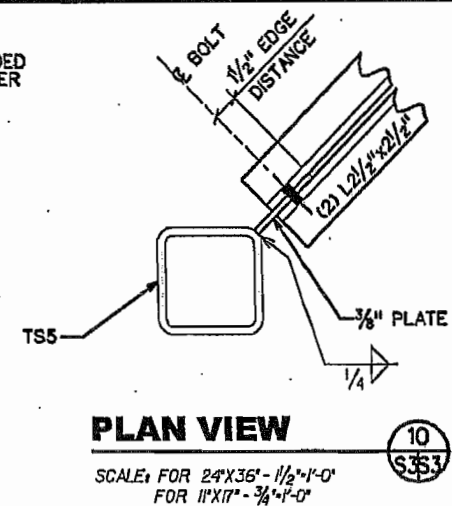
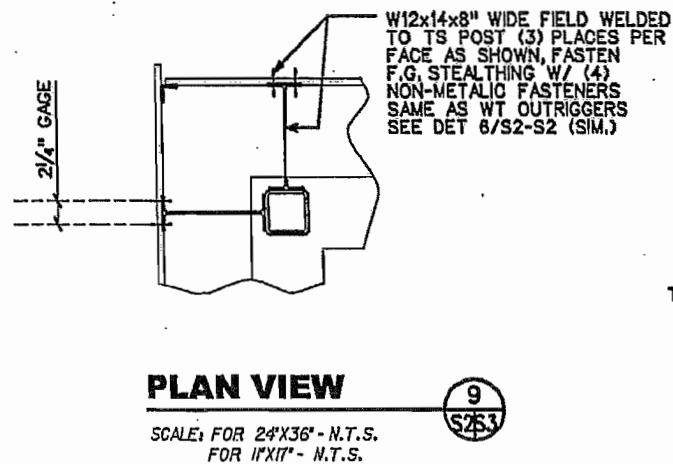
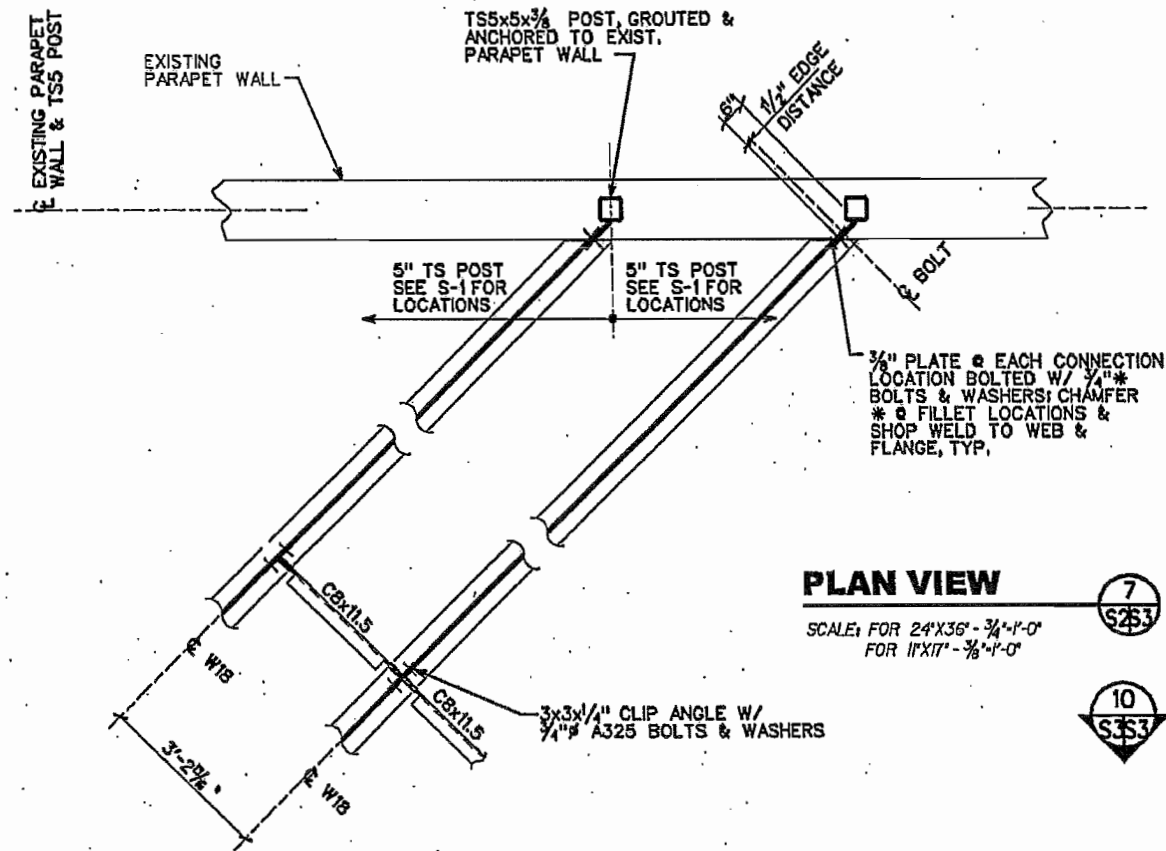
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SCALE: AS NOTED
DATE: 10-09-07
XREF: 10078009AM

SHEET TITLE:
ELEVATION VIEW

SHEET:
A-2



NO.	DATE	DESCRIPTION	BY
1	10/12/07	CONCEPTUAL PLANS ISSUED FOR QA REVIEW	DR
2	02/05/08	PRELIM CONST PLANS ISSUED FOR QA REVIEW	DR
3	04/21/08	FINAL CONSTRUCTION PLANS ISSUED	DR
4			

DRAWN BY: D. REVELS	CHECKED BY: J. FENNEL
APPROVED BY: B. PRUETT	

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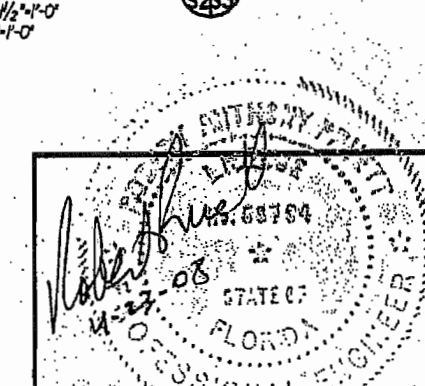
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SCALE: AS NOTED
DATE: 10-09-07
KCI/ACI NUMBER: 10070009A

SHEET TITLE:
STRUCTURAL DETAILS

SHEET
8-3



ELECTRICAL SPECIFICATIONS

GENERAL

- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE COMPLETE INSTALLATION AND OPERATION OF ALL ELECTRICAL WORK.
- B. CONFORM TO THE NATIONAL ELECTRICAL CODE, AND THE NATIONAL ELECTRICAL SAFETY CODE. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE RULES & REGULATIONS OF LOCAL AND STATE AUTHORITIES HAVING JURISDICTION AT THE TIME OF CONSTRUCTION.
- C. COORDINATE THE WORK OF ALL TRADES. ALL WORK SHALL BE DONE BY QUALIFIED PERSONNEL.
- D. ARRANGE CONDUIT, WIRING, EQUIPMENT, AND OTHER WORK GENERALLY AS SHOWN, PROVIDING PROPER CLEARANCES AND ACCESS. CAREFULLY EXAMINE ALL CONTRACT DRAWINGS AND FIT THE WORK IN EACH LOCATION WITHOUT SUBSTANTIAL ALTERATION. WHERE DEPARTURES ARE PROPOSED BECAUSE OF FIELD CONDITIONS OR OTHER CAUSES, PREPARE AND SUBMIT DETAILED DRAWINGS FOR ACCEPTANCE. THE RIGHT IS RESERVED TO MAKE REASONABLE CHANGES IN LOCATION OF EQUIPMENT, CONDUIT, AND WIRING UP TO THE TIME OF ROUGH-IN OR FABRICATION.
- E. THE CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ALL OFFSETS, BENDS, FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. PROVIDE ALL SUCH ITEMS AS MAY BE REQUIRED TO FIT THE WORK TO THE CONDITIONS.
- F. THERE SHALL BE NO INTERRUPTION OF POWER TO EXISTING ELECTRICAL SYSTEMS WITHOUT PRIOR CONSENT OF THE OWNER. SUCH INTERRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE SCHEDULED WITH THE OWNER AT LEAST THREE BUSINESS DAYS IN ADVANCE OF THE OUTAGE. ANY COST FOR WORK THAT MUST BE DONE ON AN OVERTIME BASIS SHALL BE INCLUDED IN THE PRICE.
- G. VISIT THE SITE AND INSPECT THE EXISTING CONDITIONS IN ORDER TO ENSURE PROPER EVALUATION OF WORKING CONDITIONS AND LOCATION OF EXISTING CONDITIONS.
- H. MOUNTING AND SUPPORTING OF ALL EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER IN THE FIELD.

PERMITS AND FEES

- A. OBTAIN, PAY FOR, AND DELIVER ALL PERMITS, CERTIFICATES OF INSPECTION, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATES TO MOTOROLA PRIOR TO FINAL ACCEPTANCE OF THE WORK.

MATERIAL AND EQUIPMENT

- A. MATERIAL AND EQUIPMENT INSTALLED AS A PART OF THE PERMANENT INSTALLATION SHALL BE NEW, UNLESS OTHERWISE INDICATED OR SPECIFIED, AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY, FOR INSTALLATION IN EACH PARTICULAR CASE, WHERE STANDARDS HAVE BEEN ESTABLISHED.

CUTTING AND PATCHING

- A. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION OF THE ELECTRICAL WORK. ANY DAMAGE DONE TO THE WORK ALREADY IN PLACE BY REASON OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BY A QUALIFIED MECHANIC EXPERIENCED IN SUCH WORK. PATCHING SHALL BE UNIFORM IN APPEARANCE AND SHALL MATCH THE SURROUNDING SURFACE. DO NOT CUT STRUCTURAL MEMBERS WITHOUT APPROVAL BY THE CONSTRUCTION MANAGER.

ELECTRICAL WORK UNDER OTHER DIVISIONS

- A. IN GENERAL POWER WIRING FOR SYSTEMS ARE INCLUDED UNDER THIS SPECIFICATION. CAREFULLY REVIEW THE CONTRACT DOCUMENTS AND COORDINATE THE ELECTRICAL WORK TO BE PERFORMED UNDER THE OTHER DIVISIONS.

GUARANTEE

- A. GUARANTEE THE ELECTRICAL SYSTEM INSTALLED BY THE CONTRACTOR FREE FROM ALL MECHANICAL AND ELECTRICAL DEFECTS FOR THE PERIOD OF ONE YEAR BEGINNING FROM THE DAY OF FINAL ACCEPTANCE OF THE WORK OR BENEFICIAL OCCUPANCY BY THE OWNER, WHICHEVER OCCURS FIRST.
- B. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE ELECTRICAL INSTALLATION DURING THE GUARANTEE PERIOD, NEW REPLACEMENT PARTS SHALL BE FURNISHED AND INSTALLED PROMPTLY AT NO COST TO THE OWNER.

CONDUIT AND FITTINGS

- A. MINIMUM CONDUIT SIZE SHALL BE 1/2". (UNLESS OTHERWISE INDICATED)
- B. SUPPORT ALL CONDUIT NOT EMBEDDED IN CONCRETE OR MASONRY SO THAT STRAIN IS NOT TRANSMITTED TO OUTLET BOXES AND PULL BOXES, ETC. SUPPORTS TO BE SUFFICIENTLY RIGID TO PREVENT DISTORTION OF CONDUITS DURING WIRE PULLING.
- C. ALUMINUM CONDUIT IS PROHIBITED.
- D. ALL CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT), PVC, OR RIGID GALVANIZED STEEL (RGS) AS NOTED ON CONSTRUCTION DRAWINGS.
- E. EMT CONDUIT FITTINGS SHALL BE FERROUS COMPRESSION TYPE.
- F. IN DAMP OR WET LOCATIONS, ON TRANSFORMERS, USE FLEXIBLE LIQUID-TIGHT METAL CONDUIT WITH APPROVED FITTINGS.

COORDINATION

- A. COORDINATE THE WORK OF POWER, GROUNDING AND TELCO AT EQUIPMENT WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. FINAL TERMINATIONS TO BE AT THE DIRECTION OF THE EQUIPMENT SUPPLIER.
- B. PRIOR TO BEGINNING WORK CONTRACTOR SHALL COORDINATE ALL POWER & TELCO WITH THE OWNER AS IT MAY APPLY TO THIS SITE. ALL WORK TO COMPLY WITH THE RULES AND REGULATIONS OF THE UTILITIES INVOLVED.

WIRES AND CABLES (600 VOLTS)

- A. BUILDING WIRE, UNLESS OTHERWISE INDICATED SHALL BE 600 VOLTS, TYPE THWN INSULATION. CONDUCTORS SHALL BE SIZED AND RUN AS INDICATED. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY.

IDENTIFICATION OF EQUIPMENT

- A. MARK AND PERMANENTLY IDENTIFY ALL ELECTRICAL EQUIPMENT. IDENTIFICATION SHALL BE LAMINATED PLASTIC PLATES, BLACK WITH WHITE ENGRAVED LETTERS. USE 1/2" HIGH LETTERING. ATTACH PLATES WITH CHROME PLATED OR 316 STAINLESS STEEL SCREWS TO THE DEVICE. USE NOMENCLATURE ON DRAWINGS.
- B. ALL ELECTRICAL EQUIPMENT MUST BE MARKED AND IDENTIFIED WITH PROPER WARNING LABELS AND SIGNAGE PER NEC.

CONDUCTOR INSULATION

- A. ALL CONDUCTORS SHALL BE COLOR CODED AS REQUIRED BY NEC AND FURTHER IDENTIFIED AND CODED AS SPECIFIED HEREINAFTER. COLOR CODING SHALL BE BY MEANS OF COLORED INSULATING MATERIAL, COLORED BRAID OR JACKET OVER THE INSULATION OR BY MEANS OF SUITABLE COLORED, PERMANENT, NON-AGING, INSULATING TAPE APPLIED TO CONDUCTORS AT EACH CABINET OR JUNCTION POINT. THE COLOR CODING SHALL BE ACCOMPLISHED AS THE CONDUCTORS ARE INSTALLED. THE FOLLOWING SYSTEMS OF COLOR CODING SHALL BE STRICTLY ADHERED TO:

- A) GROUND LEADS: GREEN
B) GROUNDED NEUTRAL LEADS: WHITE
C) 120/208 VOLT (120/240 VOLT) UNGROUNDED PHASE WIRES: BLACK, RED, BLUE

THE COLOR CODE ASSIGNED TO EACH PHASE WIRE SHALL BE CONSISTENTLY FOLLOWED THROUGHOUT.

CONDUIT SUPPORTS

- A. SUPPORT SURFACE RUNS OF CONDUIT USING ONE OR TWO HOLE PIPE STRAPS. STRAP SPACING 6 FOOT ON CENTERS, MAXIMUM, UNLESS NOTED OTHERWISE.
- B. FASTEN STRAPS TO CONCRETE USING INSERTS OR EXPANSION BOLTS AND TO HOLLOW MASONRY USING TOGGLE BOLTS. WOODEN PLUGS ARE UNACCEPTABLE.

OUTLET, JUNCTION AND PULL BOXES

- A. ALL BOXES, WHETHER OUTLET, JUNCTION, PULL, OR EQUIPMENT SHALL BE FURNISHED WITH APPROPRIATE COVERS.
- B. NO SECTIONALIZED BOXES SHALL BE USED.
- C. OUTLET, JUNCTION AND PULL BOXES SHALL BE SHEET STEEL, WHERE REQUIRED TO FACILITATE PULLING OF WIRES OR CABLES, SUCH BOXES SHALL BE RIGIDLY MOUNTED AND INSTALLED IN ACCESSIBLE LOCATIONS.

SAFETY DISCONNECT SWITCH

- A. PROVIDE SAFETY DISCONNECT SWITCHES AS SHOWN ON THE DRAWINGS AND WHERE REQUIRED BY THE NATIONAL ELECTRICAL CODE. SWITCHES SHALL BE HORSEPOWER-RATED WHERE APPLICABLE, AND SHALL BE THE SIZES REQUIRED. SERVICE ENTRANCE SWITCH SHALL BE SO RATED.
- B. SWITCHES SHALL BE HEAVY DUTY TYPE FUSED OR UNFUSED, AS INDICATED; SIDE HANDLE OPERATED, NEMA 1 FOR GENERAL INTERIOR WORK AND NEMA 3R FOR EXTERIOR, DAMP, OR WET LOCATIONS. SWITCHES SHALL BE EQUIPPED WITH A COVER INTERLOCK TO PREVENT OPERATION WITH COVER OPEN.
- C. SWITCHES SHALL BE VISIBLE BLADE, EXTERNALLY OPERATED, WITH ALL CURRENT CARRYING PARTS SILVER OR TIN-PLATED. ALL SWITCHES SHALL HAVE PROVISIONS FOR NOT LESS THAN TWO EXTERNAL PADLOCK.

GROUNDING

- A. PROVIDE GROUND FOR ALL RACEWAYS, DEVICES, AND UTILIZATION EQUIPMENT PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND AS HEREINAFTER SPECIFIED. ALL GROUNDED NEUTRAL CONDUCTORS SHALL BE CONTINUOUSLY IDENTIFIED. ALL GROUNDING AND BONDING CONNECTIONS SHALL BE SOLDERLESS.
- B. PROVIDE INSULATED GROUNDING CONDUCTORS FOR FEEDER AND BRANCH CIRCUIT WIRING AS CALLED FOR ON THE PLANS. PROVIDE GROUNDING BLOCKS, TERMINALS, ETC., FOR CONNECTION OF GROUND WIRE IN ALL DISTRIBUTION EQUIPMENT, OUTLETS, JUNCTION BOXES, AND UTILIZATION EQUIPMENT. TERMINATE WITH LUGS OR COMPRESSION TERMINALS. CONDUCTORS LOOPED UNDER BOLTS OR SCREWS WILL NOT BE ACCEPTABLE.
- C. GROUND RODS WHEN NEEDED SHALL BE STEEL, COPPER CLAD 5/8" DIAMETER BY TEN FEET LONG. GROUND ROD SHIELDS TO BE PROVIDED FOR DRIVING RODS.

- D. THE MAXIMUM RESISTANCE OF THE COMPLETED GROUNDING SYSTEM SHALL NOT EXCEED 5 OHMS ON ANY PART OF THE SYSTEM. IF DUE TO SOIL CONDITIONS OR OTHER PARAMETERS THIS MAXIMUM VALUE IS EXCEEDED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS.

- E. GROUND BAR PLATES ARE TO BE MANUFACTURED EXACTLY AS DETAILED AND DIMENSIONED. DIMENSIONS TO BE ACCURATE TO 1/32".

- F. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL

- G. ALL BARE COPPER SURFACES SHALL BE COATED PRIOR TO LUGGING. JOINT COMPOUND SHALL BE KOPR-SHIELD BY THOMAS & BETTS.

- H. CONNECTION OF CONDUCTORS BELOW GRADE TO GROUND RODS, GROUND RINGS, GROUND WELL, ETC., SHALL BE EXOTHERMIC AND ABOVE GRADE TO STRUCTURES, EQUIPMENT ETC., SHALL BE SPLIT BOLT OR MECHANICALLY BOLTED TYPE.

SUPPORTS, HANGERS AND FOUNDATIONS

- A. PROVIDE ALL SUPPORTS, HANGERS, BRACES, ATTACHMENTS, AND FOUNDATIONS REQUIRED FOR THE WORK. SUPPORT AND SET THE WORK IN A THOROUGHLY SUBSTANTIAL AND WORKMANLIKE MANNER WITHOUT PLACING STRAINS ON THE MATERIALS, EQUIPMENT, OR THE BUILDING STRUCTURE.
- B. SUPPORTS, HANGERS, BRACES AND ATTACHMENTS SHALL BE STANDARD MANUFACTURED ITEMS OR FABRICATED STRUCTURAL STEEL SHAPES.

AS-BUILT DATA

- A. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CONSTRUCTION MANAGER "AS-BUILT" DRAWINGS FOR CHANGES OR DEVIATIONS FROM CONTRACT DRAWINGS TO THE FOLLOWING:
- SOURCE, ORIGIN, AND/OR ROUTING OF MAIN FEEDERS
 - LOCATION OF MAJOR PIECES OF DISTRIBUTION EQUIPMENT SUCH AS KILOWATT HOUR METER AND MAIN FEEDER OVERCURRENT DEVICES.

UTILITY CONTACT FOR NEW SERVICE

TELCO:
NOTIFY TELCO COMPANY PRIOR TO OBTAINING ELECTRICAL PERMIT TO COORDINATE TELCO CONNECTION.
CONTACT: BELLSOUTH

DRY TYPE TRANSFORMERS

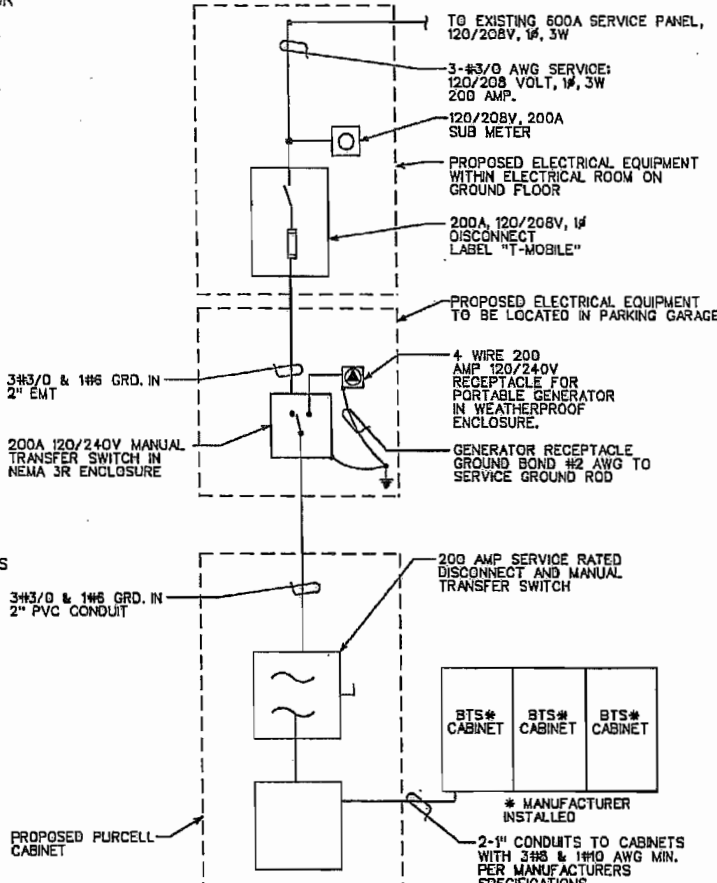
- A. FACTORY ASSEMBLED AND TESTED DRY TYPE TRANSFORMER WITH CAPACITIES AS INDICATED ON THE CONSTRUCTION DRAWINGS SHALL BE PROVIDED. TRANSFORMER TO BE U.L. LISTED AND MEET STANDARD 20.
- B. CORES TO BE CONSTRUCTED OF ELECTRICAL GRADE LAMINATED STEEL. CORE VOLUME SHALL ALLOW OPERATION AT 10% ABOVE RATED PRIMARY VOLTAGE WITHOUT EXCEEDING RATED TEMPERATURE RISE. COILS TO BE ALUMINUM OR COPPER AND BE ISOLATED FROM CORE.
- C. TRANSFORMER TO BE RATED FOR 220°C INSULATION WITH A 150°C RISE ABOVE A 40°C AMBIENT AT FULL LOAD.
- D. PROVIDE OUTDOOR ENCLOSURE, VENTILATED.
- E. SOUND LEVEL TO MEET NEMA/ANSI STANDARD C89.22: MAXIMUM OF 45db.
- F. PRIMARY VOLTAGE TAPS: SIX 2.5% FULL CAPACITY TAPS, 2 ABOVE AND 4 BELOW RATED VOLTAGE.
- G. PROVIDE UNIT BY ACME ELECTRIC CORPORATION.
- H. PRIMARY TRANSFORMER SHALL BE 480V, SINGLE PHASE AND SECONDARY SHALL BE 120/240 SINGLE PHASE 60 HZ.

ABBREVIATIONS & SYMBOLS

- A - AMPERE
AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISHED GRADE
AC - AMPERES INTERRUPTING CURRENT
AWG - AMERICAN WIRE GAUGE
BKR - BREAKER
C - CONDUIT
CKT - CIRCUIT
AGB - ANTENNA GROUND BAR
DWG - DRAWING
CAT - CATALOG
GRD - GROUND
KVA - KILOVOLT-AMPERES
MGB - MAIN GROUND BAR
M.H. - MOUNTING HEIGHT
M.L.G. - MAIN LUG ONLY
MCB - MAIN CIRCUIT BREAKER
NEC - NATIONAL ELECTRICAL CODE
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
NETA - NATIONAL ELECTRICAL TESTING ASSOCIATION
NFSS - NON-FUSED SAFETY SWITCH (DISCONNECT)
NO. - NUMBER
OCP - OVER CURRENT PROTECTION
P - POLE
TYP. - TYPICAL
V - VOLTS
WP - WEATHERPROOF
Ø - PHASE
SPST - SINGLE POLE, SINGLE THROW
RGS - RIGID GALVANIZED STEEL
PVC - POLYVINYL CHLORIDE
EMT - ELECTRICAL METALLIC TUBING

ELECTRICAL LEGEND

①	SEE DRAWING NOTE OF SAME NUMBER
	KILOWATT HOUR METER
	CONDUIT OR CABLE-UP, DOWN
	#2 AWG BARE, SOLID, TINNED COPPER CONDUCTOR - OR #2 AWG INSULATED AS INDICATED
	POWER, TELCO OR GROUND CONDUIT
	CONDUIT TERMINATED OR TRANSITION AS INDICATED IN PLAN
	STANDARD GROUND ROD - 5/8"x10'-0"
	FUSED SERVICE DISCONNECT SWITCH, NON-FUSED
	EXOTHERMIC WELD OR MECHANICAL GROUND BOND
	INSPECTION SLEEVE
	GROUND ROD EXOTHERMICALLY WELDED TO BURIED GROUND RING
	DRY TYPE TRANSFORMER



ONE-LINE DIAGRAM
NOT TO SCALE

LOAD CALCULATIONS

600A, 120/208V SERVICE PANEL
DEMAND - 157 AMPS (27.8K)
(MEASURED ON-SITE)
T-MOBILE DEMAND - 13.1KVA CONNECTED @
120/208 VOLT, 1Ø
13.1KVA/208 = 63 AMPS
65 KVA
TOTAL DEMAND
157 AMPS (ALLOWED FOR PEAK) + 63 = 220.9 AMPS (57.8K)

[Handwritten signature and stamp of Luis G. Vargas, Jr., PE]

BY: DR DR DR

DESCRIPTION

CONCEPTUAL PLANS ISSUED FOR QA REVIEW

PRELIM CONST PLANS ISSUED FOR QA REVIEW

FINAL CONSTRUCTION PLANS ISSUED

DATE

10/12/07

02/05/08

04/21/08

NO.

1

2

3

4

DRAWN BY: D. REVELS

CHECKED BY: J. FENNEL

APPROVED BY: L. VARGAS

KCI TECHNOLOGIES

FLORIDA LICENSE NO.: 32000468

KCI TECHNOLOGIES, INC.

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3407 W. DR. MARTIN LUTHER KING BLVD

TAMPA, FL 33607

A2F770-C

ESTUARY

ELECTRICAL ENGINEER:

LUIS G. VARGAS, JR., PE

FL LICENSE NO.: 52139

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SCALE: AS NOTED

DATE: 10-08-07

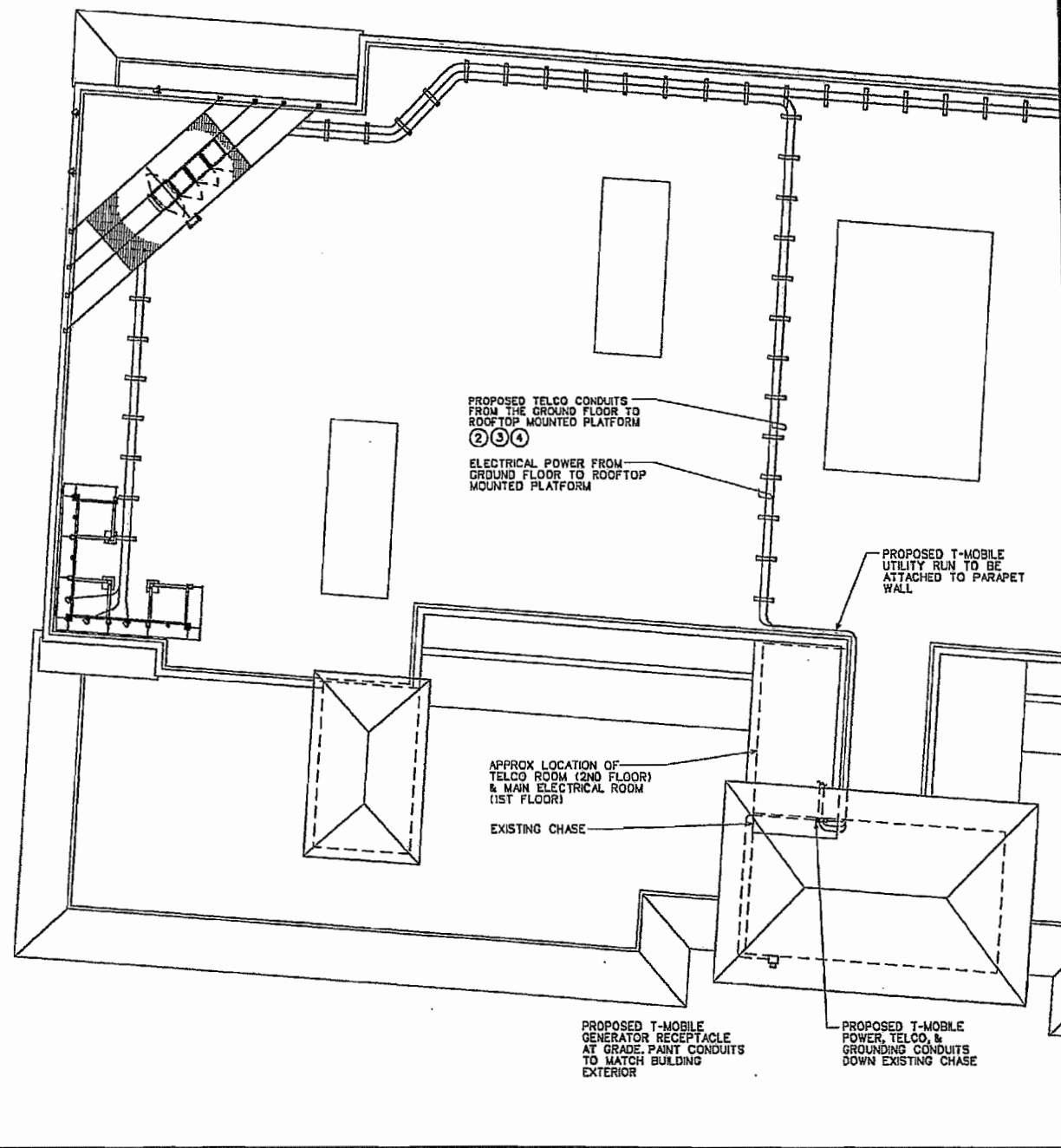
KCI JOB NUMBER: 10070009AM

SHEET TITLE

ELECTRICAL NOTES

SHEET

E-1



ROOFTOP ELECTRICAL LAYOUT
SCALE: AS NOTED

DRAWING NOTES:

1. THE EXISTING TELCO BOARD: SOURCE OF TELCO SERVICE TO THE EQUIPMENT ON THE ROOF IS LOCATED IN THE TELCO ROOM ON THE GROUND FLOOR.
2. WATERPROOF SEAL ALL WALL PUNCTURES.
3. EXACT ROUTING OF TELCO AND POWER CONDUIT TO BE DETERMINED IN THE FIELD.
4. 2" CONDUIT FROM METER TO T-MOBILE PLATFORM. CONDUIT TO TERMINATE IN THE AC CABINET. EXACT ROUTING TO BE DETERMINED IN THE FIELD.
5. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITIES PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.

AC/TELCO CABINET NOTE (PER MANUFACTURER):
THE STANDARD 100A BREAKER PROVIDED IS RATED AT 10K AIC. TO SATISFY OTHER AIC RATINGS, THE FOLLOWING SHOULD BE DONE ACCORDING TO SQUARE D'S SERIES RATINGS:
1. 22K AIC: REPLACE THE 100A MAIN BREAKER WITH SQUARE D P/N: Q02100VH (RATED AT 22K AIC)
2. 42K AIC: REPLACE THE 100A MAIN BREAKER WITH SQUARE D P/N: Q0H2100 (RATED AT 42K AIC)
3. > OR EQUAL TO 65K AIC: INSTALL A METERBASE OR FUSIBLE SAFETY SWITCH WITH A 100-200A, 300V RATED CLASS T FUSE UPLINE FROM THE RAC774831 POWER ACCESS CABINET AND INSTALL APPROPRIATELY RATED T TYPE FUSES (E.G. 100K OR 200K AIC). BASED ON SQUARE D'S SERIES RATING FOR THE LOAD CENTER AND ITS QO TYPE BREAKERS, THAT T FUSE WILL GIVE THE SITE ITS NEEDED AIC RATING.

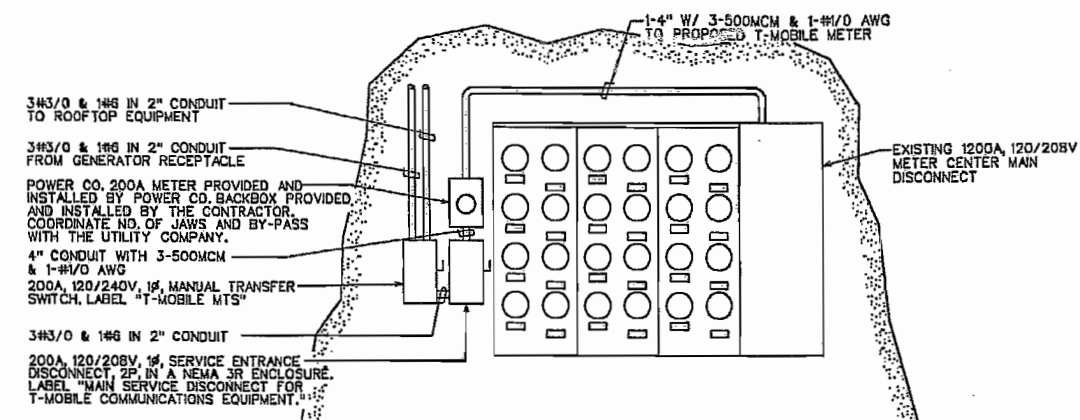
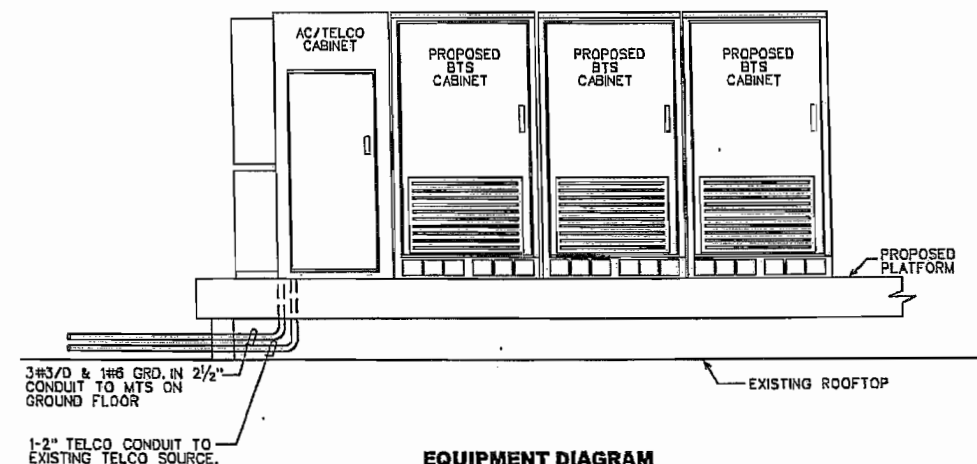
CONTRACTOR NOTES:
1. PRIOR TO ANY WORK PERFORMED ON ROOF, CONTRACTOR SHALL NOTIFY BUILDING MAINTENANCE CONTRACTOR FOR CURRENT ROOF WARRANTY REQUIREMENTS.

2. ALL EXPOSED EQUIPMENT AND ANTENNAS SHALL BE PAINTED TO MATCH THE EXISTING BUILDING EXTERIOR.

3. ALL PROPOSED COMMUNICATION EQUIPMENT SHALL COMPLY TO THE 130 MPH, 3 SECOND GUST. CATEGORY 'C' WIND FACTOR.

4. BUILDING INFORMATION TAKEN FROM A SET OF PLANS BY GREENING & SAYERS, ARCHITECTS, DATED 1-31-72.

16 12 8 4 0 8 16
FOR 24"x36" DRAWINGS
GRAPHIC SCALE: 1/8" = 1'-0"
FOR 11"x17" DRAWINGS
GRAPHIC SCALE: 1/16" = 1'-0"



SERVICE RISER DIAGRAM
NOT TO SCALE

POWER AND TELCO PLAN
E-2

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DRAWN BY: D. REVELS
CHECKED BY: J. FENNEL
APPROVED BY: L. VARGAS

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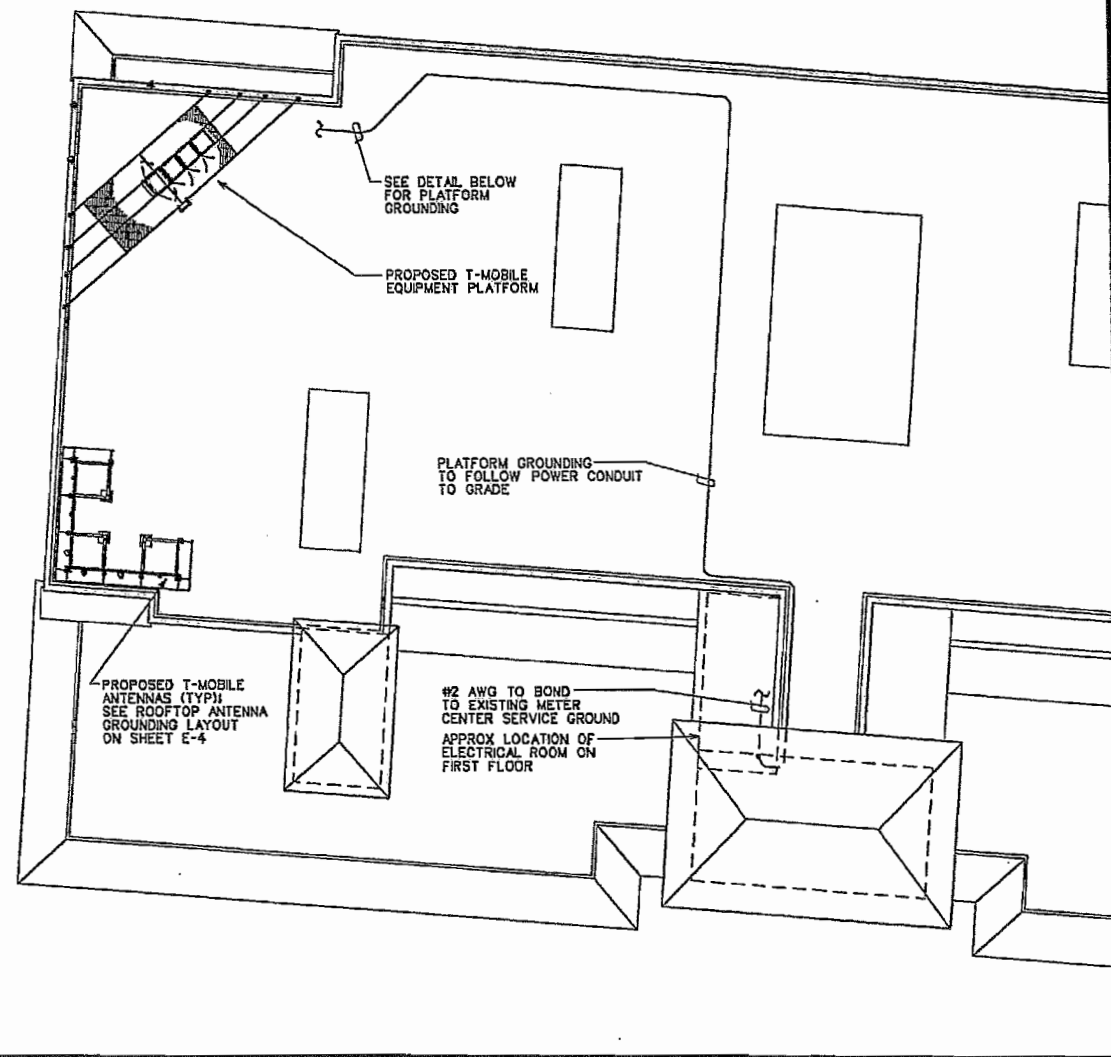
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A2F770-C
ESTUARY

ELECTRICAL ENGINEER:
LUIS G. VARGAS, JR., PE
FL LICENSE NO.: 52189

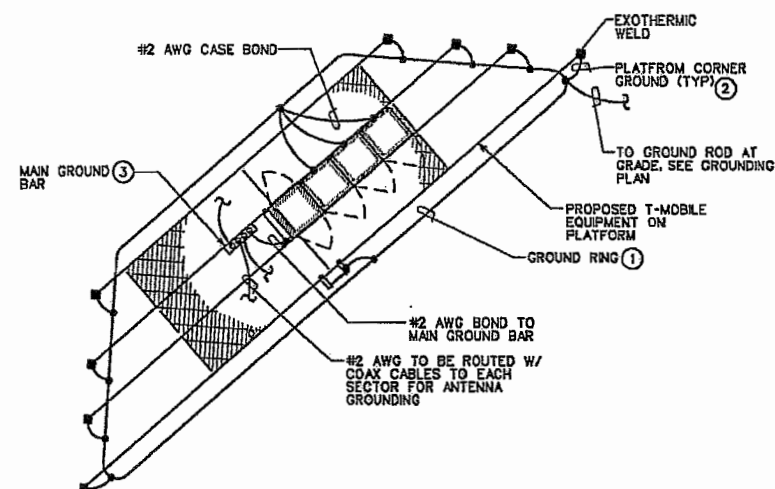
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SCALE: AS NOTED
DATE: 10-08-07
KCI JOB NUMBER: 10070009AM

SHEET TITLE
POWER AND TELCO PLAN
SHEET
E-2



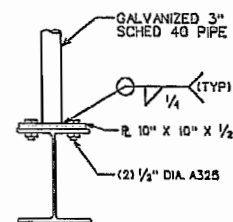
GROUNDING PLAN
SCALE AS SHOWN



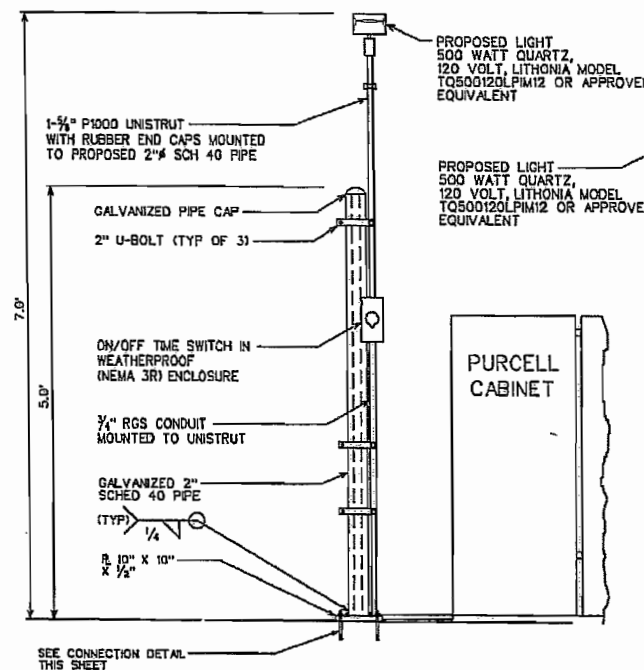
TYPICAL PLATFORM GROUNDING
NOT TO SCALE

GROUNDING NOTES:

- GROUND RING CONSISTS OF #2 AWG INSULATED COPPER CONDUCTOR LAD DIRECTLY ON ROOF. CABLE TO BE SECURED TO ROOF MEMBRANE USING ADHESIVE CABLE HOLDERS AND RUBBER ADHESIVE. CABLE TO BE SECURED EVERY 5'-0" (FOR OTHER THAN ROOF MEMBRANE ATTACHMENT, USE SILICONE ADHESIVE). MAINTAIN 2'-0" FROM PLATFORM EDGE TO GROUND RING. SEE DETAIL, SHEET E-4.
- PLATFORM CORNER GROUND: EXOTHERMIC WELD AT PLATFORM STEEL WITH #2 AWG INSULATED COPPER CONDUCTOR. EXTEND DOWN TO GROUND RING AND CONNECT TO GROUND RING WITH SPLIT BOLT CONNECTOR OR EXOTHERMIC WELD OR PARALLEL CLAMP. CONDUCTOR SHALL BEND, WITH ANTICIPATED FLOW, TOWARD MAIN GROUND.
- MAIN GROUND BAR: BOLTED TO THE STEEL PLATFORM JUST BELOW THE TOP FLANGE. USE STAINLESS STEEL HARDWARE FOR THE STEEL PLATFORM. GROUND BAR SHALL BE ISOLATED FROM THE STEEL WITH NON-METALLIC INSULATORS. SEE DETAILS ON SHEET E-4.

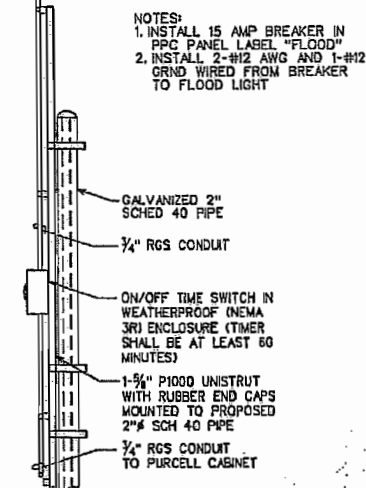


CONNECTION DETAIL
NOT TO SCALE



EQUIPMENT AREA LIGHTING
NOT TO SCALE

SECTION A-A



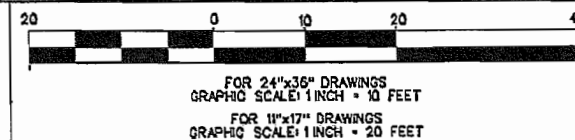
- NOTES:
1. INSTALL 15 AMP BREAKER IN PPC PANEL LABEL "FLOOD"
2. INSTALL 2-#12 AWG AND 1-#12 GND WIRED FROM BREAKER TO FLOOD LIGHT

CONTRACTOR NOTES:
1. PRIOR TO ANY WORK PERFORMED ON ROOF, CONTRACTOR SHALL NOTIFY BUILDING MAINTENANCE CONTRACTOR FOR CURRENT ROOF WARRANTY REQUIREMENTS.

2. ALL EXPOSED EQUIPMENT AND ANTENNAS SHALL BE PAINTED TO MATCH THE EXISTING BUILDING EXTERIOR.

3. ALL PROPOSED COMMUNICATION EQUIPMENT SHALL COMPLY TO THE 130 MPH, 3 SECOND GUST, CATEGORY 'C' WIND FACTOR.

4. BUILDING INFORMATION TAKEN FROM A SET OF PLANS BY GREENING & SAYERS, ARCHITECTS, DATED 1-31-72.



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ESTUARY

ELECTRICAL ENGINEER:
LUIS G. VARGAS, JR., PE
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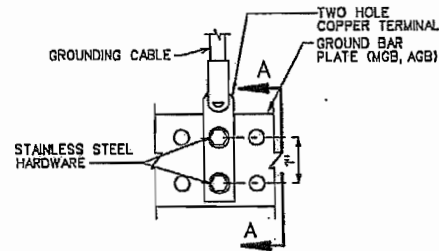
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SCALE: AS NOTED
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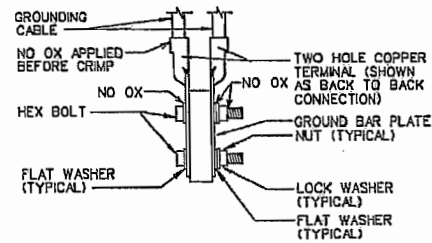
SHEET TITLE
GROUNDING PLAN

SHEET

E-3



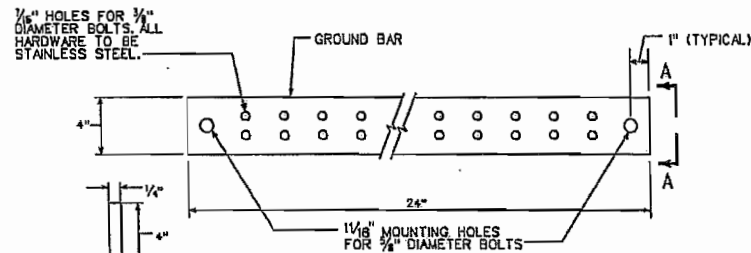
ELEVATION



GROUND BAR CONNECTION

NOT TO SCALE

NOTE:
DOUBLING UP OR 'STACKING' OF CONNECTIONS IS NOT PERMITTED.
OXIDE - INHIBITING JOINT COMPOUND TO BE USED ON ALL CONNECTIONS.
BACK TO BACK CONNECTIONS SHALL BE USED ONLY WHEN NUMBER OF CONNECTIONS TO FRONT OF BAR EXCEEDS NUMBER OF AVAILABLE SPACES.



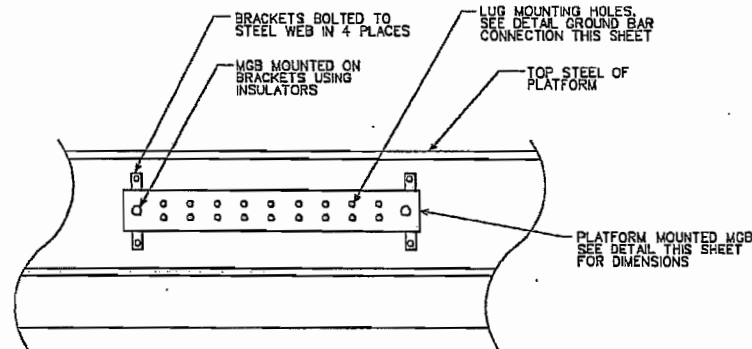
SECTION 'A-A'

ELEVATION

MAIN GROUND BAR

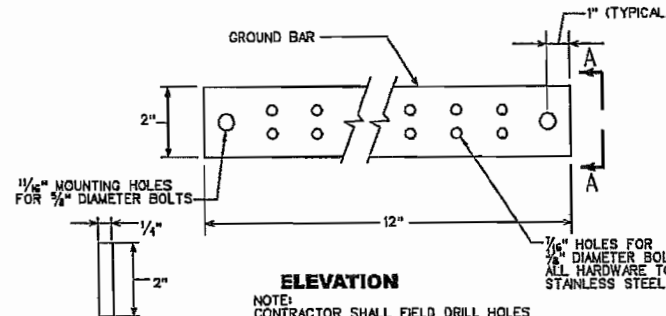
NOT TO SCALE

NOTE:
CONTRACTOR SHALL FIELD DRILL HOLES AS REQUIRED TO MATCH LUG DIMENSIONS AND NUMBER OF CONNECTIONS. FIELD COORDINATE WITH THE CONSTRUCTION COORDINATOR.



DETAIL - MGB MOUNTING

NOT TO SCALE



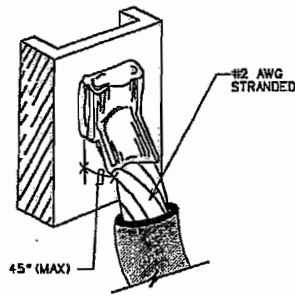
SECTION 'A-A'

ELEVATION

NOTE:
CONTRACTOR SHALL FIELD DRILL HOLES AS REQUIRED TO MATCH LUG DIMENSIONS AND NUMBER OF CONNECTIONS. FIELD COORDINATE WITH THE CONSTRUCTION MANAGER

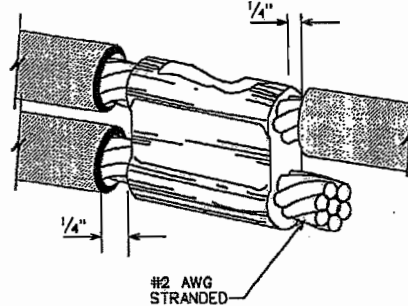
ANTENNA GROUND BAR

NOT TO SCALE



DETAIL - EXOTHERMIC WELD PLATFORM STEEL

NOT TO SCALE

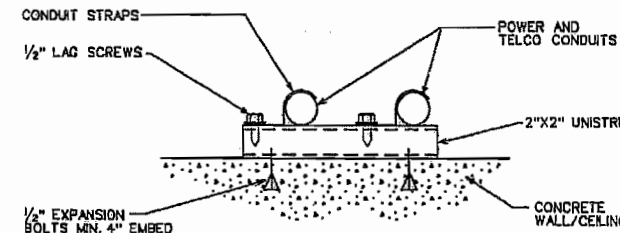


DETAIL - EXOTHERMIC WELD PARALLEL CABLES

NOT TO SCALE

ANTENNA GROUNDING NOTES

- FOR EACH ANTENNA COAXIAL CABLE TO THE EQUIPMENT PLATFORM, PROVIDE AND INSTALL A COPPER GROUND CABLE. GROUND CABLE SHALL ATTACH TO THE COAXIAL SHIELD AND TERMINATE ON THE MGB ON THE PLATFORM OR THE ANTENNA GROUND BAR AT THE ANTENNA MOUNT.
- AT THE ANTENNA POST, WELD #2 AWG GREEN INSULATED COPPER CONDUCTOR USING AN EXOTHERMIC WELD BELOW THE ANTENNA. COLD GALVANIZE WELD AFTER COOLING.
- #2 AWG INSULATED COPPER CONDUCTOR EXTEND FROM POST TO THE ANTENNA GROUND BAR CONNECTION TO THE GROUND BAR SHALL BE WITH A TWO HOLE CRIMP TYPE LUG CONNECTION.
- ANTENNA GROUND BAR. GROUND BAR TO BE ISOLATED FROM MOUNTING BRACKETS USING NON-METALLIC INSULATORS. SEE DETAIL ON SHEET E-4.
- #2 AWG INSULATED GROUND CONDUCTOR FROM ANTENNA GROUND BARS TO THE MGB ON THE PLATFORM SHALL BE ROUTED PARALLEL WITH THE ANTENNA COAXIAL CABLES. USE PLASTIC HANGARS ON UNISTRUT SIMILAR TO THE COAX MOUNTING.



CEILING/WALL MOUNT CONDUIT TRAY DETAIL

NOT TO SCALE

CORE DRILL/FIRE STOP NOTES:

1. FLOOR OR WALL ASSEMBLY-

LIGHTWEIGHT OR NORMAL WEIGHT (100-150 pcf) CONCRETE, EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN. THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4 1/2" IN. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN. 8 IN. THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS. WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX. DIAM. OF OPENING IS 32 IN.

SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

1A. STEEL SLEEVE-

(OPTIONAL, NOT SHOWN) - MAX. 15 IN. ID (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX. OF 2 IN. ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. MAX. 18 IN. ID (OR SMALLER) MIN. 0.028 WALL THICKNESS (OR HEAVIER) GALVANIZED STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX. OF 1/2 IN. BEYOND EITHER SURFACE OF FLOOR OR WALL.

2. THROUGH PENETRANTS-

ONE METALLIC PIPE, PVC CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAX. ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MIN. ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS ZERO IN. (POINT CONTACT). PIPE CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

- CONCRETE BLOCKS - NOM. 30 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
- IRON PIPE - NOM. 30 IN. DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- CONDUIT - NOM. 8 IN. DIAM. (OR SMALLER) RIGID STEEL CONDUIT.
- CONDUIT - NOM. 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
- COPPER TUBING - NOM. 8 IN. DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
- COPPER PIPE - NOM. 8 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. PACKING MATERIAL-

POLYETHYLENE BACKER ROD OR NOM. 1 IN. THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

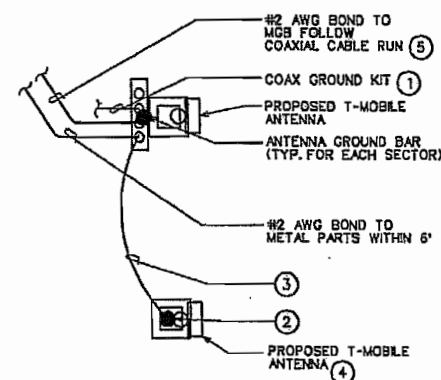
4. FILL, VOID OR CAVITY MATERIAL - CAULK

APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. THE HOURLY F RATINGS AND THE MIN. REQUIRED CAULK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

MIN. FLOOR OR WALL THICK. (IN)	NOM. PIPE TUBE OR CONDUIT DIAM. (IN)	MAX. ANNULAR SPACE, (IN)	MIN. CAULK THICK., (IN)	F RATING, (HR)
2 1/2	1/2-12	1 3/4	1/2	2
4 1/2	1/2-12	3 1/4	1	2
4 1/2	1/2-6	1 3/4	1/4 (A)	2
4 1/2	1/2-12	1 3/4	1/2	3
4 1/2	1/2-20	2	1	3
4 1/2	1/2-20	2	1	3
4 1/2	1/2-12	3 1/4	1	3
4 1/2	1/2-30	2	2	3
5 1/2	1/2-6	1 3/4	1 (B)	4

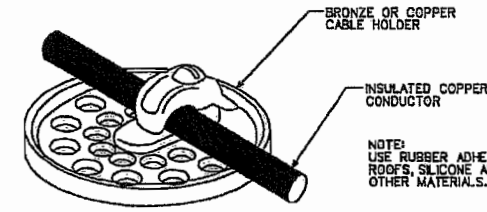
(A) MIN. 2 IN. THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.

(B) MIN. 1 IN. THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN. 1 IN. THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.



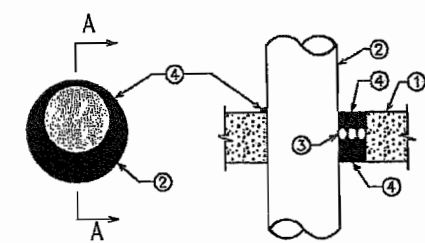
ROOFTOP ANTENNA GROUNDING LAYOUT

NOT TO SCALE



DETAIL - CABLE HOLD DOWN ON ROOF

NOT TO SCALE

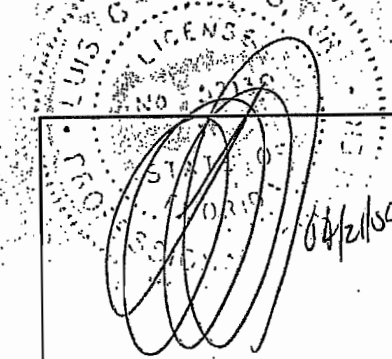


SECTION A-A

DETAIL - CORE DRILL / FIRE STOP

NOT TO SCALE

NOTE:
UL SYSTEM C-AI-1044, 1 1/2" (SEE ITEMS 2A AND 4)
F RATING - 0 HR
L RATING - 0 HR
L RATING AT AMBIENT - 11 CFM/50 FT.
L RATING AT 400° F - LESS THAN 1 CFM/50 FT.



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ELECTRICAL ENGINEER:
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FL LICENSE NO.:
52189

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SCALE: AS NOTED
DATE: 10-08-07
KCI JOB NUMBER: 10070009AM

SHEET TITLE
ELECTRICAL DETAILS

SHEET
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