PLANNING COMMISSION AGENDA CITY OF PRAIRIE VILLAGE TUESDAY, JANUARY 8, 2019 7700 MISSION ROAD COUNCIL CHAMBERS 7:00 P.M.

- I. ROLL CALL
- II. APPROVAL OF PLANNING COMMISSION MINUTES December 4, 2018
- III. PUBLIC HEARINGS
 None
- IV. NON-PUBLIC HEARINGS

PC2019-101 Lot Split Approval

4001 & 4005 West 85th Street

Zoning: R-la

Applicant: Kevin Green

PC2019-102 Site Plan Approval - Somerset Plaza

4601 West 90th Street

Zoning: C-2

Applicant: Dev Anand with Dev Inc.

PC2019-103 Site Plan Approval - Antenna Replacement

3921 West 63rd Street

Zoning: R-la

Applicant: Darryl Cain with Centerline Solutions for T-Mobile

- V. OTHER BUSINESS Election of Officers
- VI. ADJOURNMENT

Plans available at City Hall if applicable
If you cannot be present, comments can be made by e-mail to

<u>Cityclerk@Pvkansas.com</u>

*Any Commission members having a conflict of interest, shall acknowledge that conflict prior to the hearing of an application, shall not participate in the hearing or discussion, shall not vote on the issue and shall vacate their position at the table until the conclusion of the hearing.

PLANNING COMMISSION MINUTES December 4, 2018

ROLL CALL

The Planning Commission of the City of Prairie Village met in regular session on Tuesday, December 4, 2018 in the Council Chambers at 7700 Mission Road. Chairman Nancy Wallerstein called the meeting to order at 7:05 p.m. with the following members present: Jonathan Birkel, Patrick Lenahan, Gregory Wolf, Melissa Brown, Jeffrey Valentino and James Breneman.

The following persons were present in their advisory capacity to the Planning Commission: Chris Brewster, City Planning Consultant; Jamie Robichaud, Deputy City Administrator; Mitch Dringman, City Building Official and Joyce Hagen Mundy, City Clerk/Planning Commission Secretary.

APPROVAL OF MINUTES

James Breneman moved for the approval of the minutes of the November 6, 2018 regular Planning Commission meeting as presented. Gregory Wolf seconded the motion, which passed 5 to 0 with Melissa Brown and Jeffrey Valentino abstaining.

PUBLIC HEARINGS

No public hearings were scheduled.

NON-PUBLIC HEARINGS PC2018-124 Amendment to Site Plan Approval 4100 Homestead Court

Dennis Hulsing, 5669 West 68th Street, along with Tyler Holloman, general contractor for the project, presented their request for approval of the following site plan changes at 4100 Homestead Court:

- 1. Reconfiguration of the platform tennis court areas to extend closer to the clubhouse building, and to allow the relocation of a fourth platform tennis court. [Note: the May approval had the four existing platform tennis courts, and two additional pickle ball courts. The August revised site plan had three platform tennis courts (the removal of the north two, and the relocation of one to the south bank), and six pickle ball courts (four more than originally approved in place of the north bank of platform tennis courts). This proposed revision has the four original platform tennis courts (two on the north bank relocated to the south bank) and six pickle ball courts.]
- 2. Proposed covered structure over the six pickle ball courts.
- 3. Change in building elevations for the enclosed year-round tennis structure.

Mr. Hulsing stated the earlier approved improvements to the clubhouse are progressing well, with the clubhouse expecting to be open in mid-December.

Chris Brewster provided background on this site, which has been operating under a special use permit since 1982. The special use permit has been renewed and amended several times to account for different operations and development activity. Most recently, the special use permit was amended in May of 2018 to allow for the remodeling and addition to the club, and to replace the seasonal tennis enclosure with a permanent structure. This application was then revised in August of 2018 to approve a site plan that reconfigured the platform tennis courts and replaced one of them with six pickleball courts.

The proposed changes are within the parameters of their approved Special Use Permit. However, they are beyond the scope of changes that staff can administratively approve, and require Planning Commission review and approval. Since the changes involve an additional structure and a change in building and elevations previously reviewed in the public process, staff requested the applicant have an additional neighborhood meeting to review the proposed changes. This meeting was held on November 26, 2018 and a summary of that meeting has been provided.

Mr. Brewster reviewed the staff analysis as related to Section 19.32.030 (A), (C) and (F) shown below:

A. The Site is capable of accommodating the building, parking areas and drives with appropriate open space and landscape.

The site plan has the appropriate layout and design per the previously approved plans. The reconfiguration and addition of the fourth platform tennis courts does not have a significant impact on the previous plans since it is primarily in a central portion of the site and is expanding the footprint of the existing and planned small court area closer to the clubhouse building and interior to the lot. The addition of the cover over the pickleball courts is the most substantial addition to the site plan. It is located between two larger structures - the proposed/approved year-round tennis enclosure and the existing clubhouse. It is located farther from the residences on the closest (south) boundary than either of these structures.

The most significant issues in previous applications associated with the site plan in general, and the outside courts particularly, dealt with the lighting and screening with landscape, as well as drainage concerns. Previous conditions of the special use permit and revised site plan required all new lighting to be state of the art, directional sport court lighting, designed to minimize glare on adjacent areas. Any new lighting on other courts was to be upgraded to this lighting as maintenance and replacement allowed. Further, the landscape plan approved with the previous approvals addresses many of the screening and buffering concerns with regard to this area. Public Works required the applicant to submit a revised drainage study to account for the changes in this revised site plan, and they are satisfied with the results of that study.

Mr. Brewster noted all of the requirements of the previous approvals remain in place and should address the relationship of these facilities to nearby residences, as it is generally within the same vicinity and footprint of previous approvals, and has the same relationship to adjacent properties. All of the buffer area and landscape designed to mitigate and improve this relationship remain unchanged. The addition of one more platform tennis

court results in the site having the same number of platform courts as it currently has, and essentially adding six more pickleball courts (two in the original proposal, and four more with the August revision and this proposal). These courts are not anticipated to generate a significant amount of additional activity with respect to parking or traffic for the area, and the site plan is appropriately designed to handle this activity.

The applicant has not provided specific details on the proposed cover of the court. Prior to approval, parameters on the scale and massing and conceptual plans or specifications should be provided to address the following: (1) the scale of the proposed cover in relation to the existing buildings and the screening of this area provided by the current landscape plan; (2) the compatibility of the materials and structure with other proposed buildings; and (3) any impact on the lighting issues.

C. The plan provides for adequate management of stormwater runoff.

Public works has reviewed a revised drainage study based on the proposed changes to the site plan, and the revised study includes resizing of the detention basin. Public works has found this drainage study to be acceptable and will need the contractor's final design details on the detention basin submitted with permits prior to construction inspections.

F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

Materials and elevations for the permanent enclosed tennis structure were approved with the May special use permit and site plan. The application included conceptual elevations that proposed three different layers of prefabricated metal panels and a color scheme to match the clubhouse building, including the roof structure. (No material changes were proposed for the main clubhouse structure; only a painting and changes to the roof and canopy profiles, windows and exterior patio areas to achieve a look consistent with the mid-century design aesthetic.) The conceptual elevations broke up the massing of the building with different material panels, different colors on those panels and changes associated with the entrance vestibule, and garage door entries with glazing on the front and rear elevations. The application was approved based on the conceptual elevations, and based on the testimony that permanent enclosed tennis structure would be prefabricated metal panels that matches the exterior of the clubhouse, roof materials would match the clubhouse, and that insulated panels and trapping on the interior would be used to mitigate any potential noise.

The revised elevations for the permanent enclosed tennis structure differ from the previous conceptual elevations in the following manner:

- The prefabricated panels are shown to have a vertical orientation and a consistent pattern across all elevations, as opposed to a horizontal orientation and varied patterns.
- The color scheme is a single color (pearl gray), with dark bronze trim, as opposed to the three-toned scheme associated with the varied panel patterns and different massing elements previously proposed with the conceptual elevations.

- The garage entry on the front and rear elevation are solid material matching the main wall, as opposed to glazing and accent materials proposed with the conceptual elevations.
- The roof is proposed as "regal white," as opposed to the gray previously proposed with the conceptual elevations (note: a similar roof style and color was shown on the clubhouse buildings).

Mr. Brewster noted the proposed changes impact previous approvals in two ways. First, aesthetically, it does not have the same quality of appearance. Secondly, it does not match the proposed clubhouse renovation and mid—century design aesthetic to the degree of the previous conceptual elevations.

However, the massing and scale of the building remains unchanged and meets all zoning and special use requirements. Further, the building is not a prominent building within the City when considering visibility from streets and public spaces, and the principal concern from adjacent residents through the process has been with regard to drainage and screening. If the Planning Commission determines that the proposed materials and conceptual design are acceptable in light of these considerations, staff recommends that additional vertical landscape elements be planted near the foundation and building perimeter to better screen the building from adjacent property and to help break down the scale and massing of the building when viewed from surrounding areas.

Patrick Lenahan asked for more information on the new material proposed. Tyler Holloman responded the material is *Insulated Metal Panel (IMP) product* that is more maintenance friendly. The surface is not smooth, but similar to that of an orange peel. It will be pearl gray in color with dark bronze trim.

Mr. Lenahan noted the late receipt of the elevations to the Commission and asked if the neighbors saw these elevations at the neighborhood meeting. Mr. Holloman replied they did not see them, but they were discussed as well as their location on the site plan.

Commission members had several questions on the height of the enclosure, noting conflicting numbers on the site plan and in the summary of the neighborhood meeting report. They sought clarification of the ceiling height vs. the roof height

Nancy Wallerstein noted the courts are to be used year-round and asked if heaters would be installed in the ceiling. Mr. Hulsing responded the indoor ceiling height will be fifteen feet as required for play. There are no heaters planned for the building at this time. Mrs. Wallerstein asked the height of the enclosure. Mr. Hulsing replied it would not exceed 30 feet at the highest pitch of the roof.

Mrs. Wallerstein asked the reason for the proposed change from horizontal panels to vertical panels. Mr. Hulsing replied that after a visit to see a similar installation at the University of Kansas, they liked the appearance of the vertical panels better. There are also financial savings that will offset some of the costs of the proposed LED lighting for the courts to address the neighborhood concerns with lighting. Mrs. Wallerstein noted the proposed roof color has been changed to regal white, rather than the darker color similar

to the clubhouse. Mr. Hulsing responded the roofing would not be visible from the ground and added the white color would produce far less heat for the court surface.

Jeffrey Valentino stated he had worked extensively with IMP products over the past few months and is impressed with the product. He noted the previously approved horizontal plan could be done using IMP. He would like to see them explore more options. Mr. Holloman replied they received bids from multiple companies with any vertical installation costing less than horizontal installations. Mr. Valentino felt the applicant went for the cheaper option and it is reflected in the design.

Dennis Hulsing noted the neighborhood concerns are with the lighting and landscaping and they have focused on those areas. With the proposed change they will have funding to offset the additional costs of LED directional lighting, which they plan to install, to address neighborhood concerns.

Mr. Breneman stated he was disappointed with the new building and asked if the color was brown or pearl gray. Mr. Holloman replied it will be pearl gray, the same color as the clubhouse which has not been painted yet and dark brown roof on the clubhouse and dark brown trim and gutters on the tennis building. Tennis building will be painted the same color but with a "regal white" roof and dark brown trim.

Mrs. Wallerstein noted the staff reports indicates the drainage retention has been resized. Mr. Holloman stated the retention is completely underground and not visible to the public. Mrs. Wallerstein questioned if with the new materials, additional landscaping was needed. Chris Brewster responded if they can't break up the mass with material changes, staff recommends additional landscaping added around the foundation to do so.

Patrick Lenahan expressed concern that the neighbors truly understood the revised plan with the proposed change in materials, as they were not shown the new elevations and plans for the building, but were given a verbal conceptual explanation of the change.

Mrs. Wallerstein repeated her concerns with the "regal white" roofing. Mr. Holloman responded that the roofing material is the same as that on the clubhouse but with lighter color to keep the heat on the courts from becoming excessive in the summer.

Commission members confirmed the panels were insulated. Mrs. Brown felt the roofline of the pickleball court needs to be looked at in relation to the clubhouse rather than the tennis courts. She shares Mr. Lenahan's concern with the clarity of the information presented to the neighbors regarding the height and visual changes of the proposed plan.

Dennis Hulsing noted most of the concerns expressed by the Commission were related to the structure over the pickleball courts and asked for the Commission to move forward on the other items seeking approval - the indoor tennis facility and the reconfiguration of the platform tennis court areas.

Chris Brewster advised the Commission that action could be taken on the two items requested with the approval of the structure covering the pickleball court being continued.

Mr. Hulsing replied they are willing to update the plans with more focus on the relation to the clubhouse as requested by Mrs. Brown and hold another neighborhood meeting presenting detailed visual elevations with the exact ceiling height and pitch of the roofline. He stressed it is vital to their membership that they be allowed to continue with the indoor tennis facilities. They will add additional landscaping at the entrance of the tennis building and install the directional LED lighting.

Commission members offered suggestions on addressing some of their concerns with the height and pitch. Mrs. Brown encouraged the application to upgrade the entry doors to the tennis structure with something more in line with the campus feel created by the clubhouse.

Gregory Wolf moved the Planning Commission approve PC2018-124 as it relates to everything but the pickleball structure, subject to the following conditions:

- 1. All conditions of the previously approved special use permit reviewed by the Planning Commission on May 1, 2018, and approved by the City Council on May 21, 2018 remain in effect.
- 2. All conditions of the previously approved site plan reviewed and approved by the Planning Commission on August 6, 2018 remain in effect with the exception of the following items specified in the amended site plan:
 - a. The platform tennis court footprint is expanded to the east and closer to the clubhouse to permit the relocation of the fourth platform tennis court.
 - b. The proposed materials, colors, and elevations for the enclosed tennis structure may be acceptable, provided the landscape plan is amended to include vertical landscape elements (evergreen and/or ornamental trees) at least every 20 to 30 feet around the foundation or perimeter of the building to support screening the structure from adjacent property and to help break up the massing of the building when viewed from surrounding areas. All other requirements for interior insulated panels and use of tarps to mitigate sound remain in place.
- 3. The applicant will be required to submit the contractor's final design of the detention basin, per the revised drainage study, to Public Works for review and approval prior to permits.
- 4. Entry glazing to be added to the tennis structure.
- 5. The applicant should take reasonable steps to minimize the reflectiveness of the roof. The Commission further rejected the pickleball structure as submitted.

The motion was seconded by James Breneman and passed by a vote of 5 to 2 with Mr. Birkel and Mrs. Wallerstein voting in opposition.

OTHER BUSINESS

Consider 2019 Meeting and Submittal Schedule

The 2019 meeting and submittal schedule was reviewed by the Commission members with discussion on possibly changing the July 2nd meeting date to July 9th.

James Breneman moved the Planning Commission accept the 2019 Meeting and Submittal Schedule as presented and keep the July meeting on July 2. The motion was seconded by Patrick Lenahan and passed unanimously.

Recognition of Commission Secretary

Commission Secretary Joyce Hagen Mundy was recognized for her 31 years of service to the Commission and congratulated on her upcoming retirement.

NEXT MEETING

The filing deadline for the January 8th meeting is Friday, December 7th. No applications have been filed to date; however, staff anticipates a tower application and another lot split at Mission Chateau.

ADJOURNMENT

With no further business to come before the Commission, Chairman Nancy Wallerstein adjourned the meeting at 8:10 p.m.

Nancy Wallerstein Chair

STAFF REPORT

TO: Prairie Village Board of Zoning Appeals

FROM: Chris Brewster, Gould Evans, Planning Consultant

DATE: January 8, 2019

Application: PC 2019-101

Request: Lot Split for Separate Ownership of Duplex

Action: A Lot Spit requires the Planning Commission to apply the facts of

the application to the standards and criteria of the ordinance, and

if the criteria are met to approve the application.

Property Address: 4001 & 4005 W. 85th Street

Applicant: Kevin Green

Current Zoning and Land Use: R-1A Single-Family Residential - Single-Family Dwellings

Surrounding Zoning and Land Use: North: R-1A/SUP Adult Senior Dwellings

East: R-1A Single-Family District – Single Family Dwellings (Leawood) R-1 Single-Family Residential – Single Family Dwellings South: R-1A Single-Family Residential – Single-Family Dwellings West: R-1A Single-Family Residential – Vacant, Under

Construction for more similar twin villas

Legal Description: LOT 10 MISSION CHATEAU 2ND PLAT

Property Area: 0.81 acres (35,209.53 s.f)

Related Case Files: PC 2016-119 Final Plat for Mission Chateau 2nd Plat – Replat of

Lot 2

PC 2015-110 Preliminary and Final Plat, & Final Development

Plan

PC 2015-08 Special Use Permit for Adult Senior Dwellings &

Preliminary Development Plan PC 2013-127 Preliminary Plat

PC 2013-126 Site Plan Approval for Adult Senior Dwellings PC 2013-11 Special Use Permit for Adult Senior Dwellings PC 2013-05 Special Use Permit for Adult Senior Dwellings PC 2013-114 Site Plan Approval for Adult Senior Dwellings

PC 2004 Monument Sign

PC 1995-104 Site Plan Approval for Expansion of Mission Valley

Middle School

Attachments Application, certificate of survey

January 8, 2018

General Location Map



Aerial Map



January 8, 2018

Aerial Site



Birdseye View



January 8, 2018

Street Views



Street view looking west on Mission Road at 85th Street

January 8, 2018

SUMMARY:

The applicant is requesting to split an existing lot into two lots to allow the individual ownership of each side of a single duplex building. This property is part of an overall development project for Adult Senior Dwellings that includes a Special Use Permit and Final Development Plan.

The Planning Commission recommended approval of a Special Use Permit, Site Plan approval and a Preliminary Plat at a Special Meeting on July 29, 2015. The City Council approved both recommendations on August 17, 2015 (PC 2015-08).

The Planning Commission approved a preliminary, final plat and final development plan for Mission Chateau at the March 1, 2016 meeting. (PC 2015-110). At this time, it was understood that the large lot to the south would be re-platted at a future date to facilitate the construction and sale of the villas, according to the final development plan. A final plat (Mission Chateau 2nd Plat) for Lots 3 through 13 for each of the twin villa lots was approved by the Planning Commission in July 2016 and accepted by the City Council. (PC-2016-119) Each of these lots included a two-unit building.

As part of the Special Use Permit and Final Development Plan, it was understood that the twin villas would be individually owned, and a subsequent administrative step would be necessary to facilitate recording of documents to allow sale and individual ownership of each unit in each of the twin villa buildings. A similar application was filed in November for a split at 3901 and 3905 West 85th Street.

ANALYSIS:

Section 18.02.010 of the subdivision regulations provides the criteria for approval of a lot split. Essentially the applicant must submit a certificate of survey demonstrating that both lots will meet the zoning ordinance standards and that any existing buildings on a remaining lot are not made nonconforming because of the lot split. The certificate of survey is also required to ensure that there are no issues with utility easements or rights-of-way that are created by the lot split or need to be addressed due to the lot split.

Section 18.02.010 also requires that applicants for a lot split submit a certificate of survey with the following information:

- a. The location of existing buildings on the site.
- b. The dimension and location of the lots, including a metes and bounds description of each lot.
- c. The location and character of all proposed and existing public utility lines, including sewers (storm and sanitary), water, gas, telecommunications, cable TV, power lines, and any existing utility easements.
- d. Any platted building setback lines with dimensions.
- e. Indication of location of proposed or existing streets and driveways providing access to said lots.
- f. Topography (unless specifically waived by the City Planning Commission) with contour intervals not more than five feet, and including the locations of water courses, ravines, and proposed drainage systems. (Staff recommends waiver of topography)
- g. Said certificate of survey shall include the certification by a registered engineer or surveyor that the details contained on the survey are correct.

All of this information is included on the survey certificate submitted by the applicant from R.L Buford & Associates, with a certification date of 12/4/2018. It specifies that LOT 10 be divided into Tract I (4005 W. 85th Street) and Tract II (4001 W. 85th Street), with the division of the tracts occurring along the party wall of the attached unit.

In this case, the property is zoned R-1A; however, the twin villa lots are permitted as part of an overall project for Adult Senior Dwellings through a Special Use Permit and Final Development Plan. Therefore, the development standards associated with the Special Use Permit and Final Development Plan are used,

January 8, 2018

rather than the basic R-1A standards. The twin villas are also subject to design plans approved as a condition of the original Final Development Plan and indicated on all plat approvals.

The twin villa constructed on Lot 10 meets all requirements of the Special Use Permit and Final Development Plan (approved in July 2015), and the Final Plat (approved March 2016). The proposed lot split will entail no physical changes to the site or buildings, and is merely a mechanism to facilitate individual ownership of the units as anticipated.

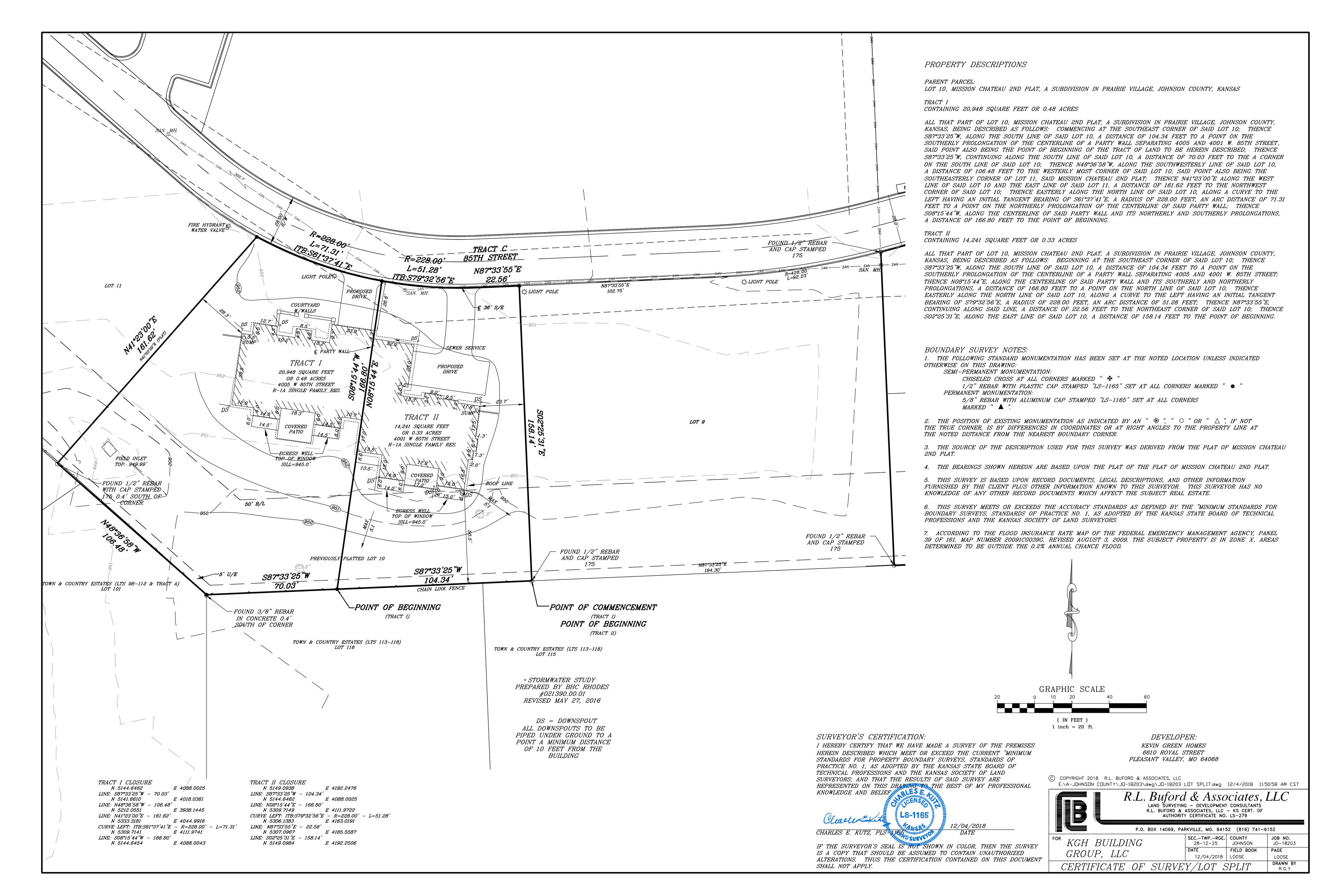
RECOMMENDATION:

Staff recommends that the Planning Commission approve the lot split subject to the following conditions:

- 1. That the applicant record the approved lot split with the register of deeds and provide a copy of the recorded document prior to issuance of an occupancy permit.
- 2. That each of the resulting lots and the building continue to be subject to all conditions of approval of the Special Use Permit, Preliminary and Final Development Plans, and Final Plat, as well as the covenants recorded with the previous final plat.

CITY OF PRAIRIE VILLAGE The Star of Zansas Planning Commission Application 12/6/28 \$600 Ct \$82716 Please complete this form and return with Information requested to:

<u> </u>				
enhoues.com				
equest in				
MMISSION or LAGE, KANSAS				
As a result of the filing of said application, CITY may incur certain expenses, such as publication costs, consulting fees, attorney fees and court reporter fees.				
publication				



STAFF REPORT

TO: Prairie Village Planning Commission

FROM: Chris Brewster, Gould Evans, Planning Consultant January 8, 2019, Planning Commission Meeting

Application: PC 2019-102

Request: Site Plan Approval – Facade Rehabilitation.

Action: A Site Plan requires the Planning Commission to apply the facts of

the application to the standards and criteria of the ordinance, and

if the criteria are met to approve the application

Property Address: 4601 W. 90th Street

Applicant: Dev Anand, Dev Inc. for John Stephenson, Somerset Partners LLC

Current Zoning and Land Use: C-2 General Business District

Surrounding Zoning and Land Use: North: RP-1A Planned Single Family – Single-family Residential

East: C-2 General Business District – Retail / Service / Office South: C-1 Restricted Business District – Office / Service West: C-2 General Business District – Retail / Service

Legal Description: SOMERSET ACRES WEST LOT 2 BLK 7 VC-0714 0043

Property Area: .91 acres (39,592.95 s.f.)

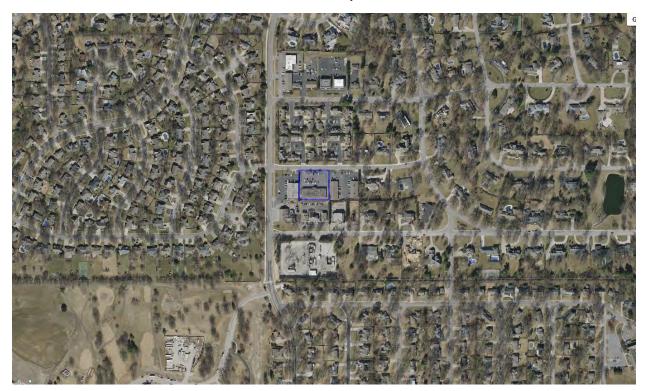
Related Case Files: n/a

Attachments: Application, site plan and conceptual elevations

General Location Map



Aerial Map



Site



Street View





Street view looking southwest on 90th Street



Bird's eye view

COMMENTS:

The applicant is requesting site plan approval to renovate the facade of an existing building. No other site changes are planned.

The building is part of a group of buildings that make up a small commercial center between West 90th Street and West 90th Terrace on the east side of Roe Avenue.

Zoning Requirements

The property is zoned C-2, General Business District. The application is a renovation of an existing building, which in general meets all standards of the C-2 District in terms of development standards, uses and parking requirements. The C-2 district has use and performance standards that all future tenants will be required to meet. Since this application proposes a substantial variation in the style and materials of the building, the Building Official may require site plan review and approval of the Planning Commission.

According to Section 19.32.030 of the Prairie Village Zoning Regulations, the Planning Commission shall give consideration to the following criteria in approving or disapproving a site plan.

A. The Site is capable of accommodating the building, parking areas and drives with appropriate open space and landscape.

The site plan meets the development standards of the C-2 district and adequately accommodates the building, parking and circulation, and open space and landscape. This application is a renovation of an existing building that meets all development standards, and there are no proposed changes to the location or extent of the building. There are no proposed or immediately anticipated changes in use with this application that would affect parking or access, and the requirements for any future changes will be reviewed in association with any business licenses or occupancy permits. The building is approximately 9,600 square feet according to Johnson County AIMS data, which would generally produce a zoning code parking requirement of 38 parking spaces for this site, with additional spaces possibly necessary for specific uses in the tenant make-up. The site currently has approximately 64 spaces.

B. Utilities are available with adequate capacity to serve the proposed development.

The proposal is to renovate the facade of an existing building and there have not been any reports of inadequate capacity for any utilities in the area.

C. The plan provides for adequate management of stormwater runoff.

The proposal is to renovate the facade of an existing building, and there are no proposed changes to the landscape, impervious surface or building footprints. There have been no reports of inadequate stormwater management in the area.

D. The plan provides for safe and easy ingress, egress, and internal traffic circulation.

The proposed changes will not impact any existing vehicle ingress and egress issues.

E. The plan is consistent with good land planning and good site engineering design principles.

The only change proposed is a façade renovation, which does not impact any land planning or site engineering design principles.

F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

The proposed changes provide a more contemporary look for the building and involve four primary changes:

- (1) Changing the roof structure to remove the front gable and low arcade over the front walkway;
- (2) Replacing the window banks with more open storefronts consisting of windows and doors with black aluminum framing;
- (3) Adding building ornamentation and rooftop screening consisting of canvas awnings, wood lattice canopies, rooftop screens, and planter boxes; and
- (4) Painting the existing brick facade and primary entry columns a light grey tone.

A conceptual sign design is also proposed, which includes white aluminum letters on an orangetoned background to compliment the proposed facade changes.

This area does not include any definitive design themes among the various buildings. It is primarily small, single-story buildings that complement the neighborhood scale, but each building or group of buildings has a distinct pallet of materials, colors and design themes.

The proposed changes improve and upgrade the aesthetics of the building and provide a more open feel for the storefronts, improving the visibility from the streetscape. The changes maintain the existing scale of the buildings, which integrates well with surrounding businesses and the neighborhood.

G. The plan represents an overall development pattern that is consistent with the comprehensive plan and other adopted planning policies.

Village Vision identifies this area as a Commercial Improvement area in the Conceptual Development Framework, and this site is near the Meadowbrook redevelopment project also identified in the plan and currently under development to the south and west. There are no specific policies, plans or concepts for this shopping center in the plan.

The general policies for Commercial Improvement areas suggest that periodic upgrades are necessary for the City's commercial areas to remain attractive and retain tenants, including façade changes, signage or landscape improvements with particular attention on how they relate to surrounding neighborhoods and property. Specific concepts emphasized in the plan are:

- Ensuring that buildings relate to streets and public spaces with windows, and doors;
- Establishing a healthy mix of dwellings, restaurants, stores, offices and civic uses.
- Promoting smaller, independent businesses,
- Providing public spaces within commercial areas.
- Enhancing accessibility, particularly for walking or biking.
- Promoting pedestrian scale design.

The proposed facade rehabilitation does not present the opportunity to advance the more significant of these policies, which anticipate more substantial building redevelopment. However, in general the proposal reflects some of the principles with respect to the maintaining and improving existing commercial centers.

RECOMMENDATION:

It is the recommendation of Staff that the Planning Commission approve the proposed site plan and conceptual facade elevations for 4601 West 90th Street subject to the following conditions:

- 1. The sign designs are approved in concept. All future signs shall require a separate sign permit meeting the general sign dimension and location standards for the City.
- 2. Any future significant changes to the site, landscape or other non-building portions of the site shall require appropriate permits through typical City processes.



CITY OF PRAIRIE VILLAGE

The Star of Kansas

cust #20456

Application	001	887
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TO DESCRIPTION OF THE PARTY OF	
Case No.: 2019 102	
Filing Fee: 100	
Deposit: 500	
Date Advertised:	
Date Notices Sent:	
Public Hearing Date:	

Please complete this form and return with Information requested to:

Assistant City Administrator City of Prairie Village 7700 Mission Rd. Prairie Village, KS 66208

Applicant: Dev Anand, Dev Inc.	Phone Number: 913.322.8882			
Address: 8807 Monrovia Street, Lenexa, KS 662	15 E-Mail dev@dev-inc.com; blake@dev-inc.com			
Owner: John Stephenson, Somerset Partners, LLC	Phone Number: 913.980.7318			
Address: 5327 W 69th Street, Prairie Village, KS	Zip: <u>66208</u>			
Location of Property: 4601 W 90th Street, Prairie	Village, KS 66208			
Legal Description: Somerset Acres West Lot 2	Blk 7 PVC-0714 0043			
Applicant requests consideration of the following: (Describe proposal/request in detail) Renovation of exterior frontage of building. Paint, demolition of mansard roof, parapet screen wall constructed to conceal				
visible roof-top-units, replace existing windows and concre	ete walk.			
AGREEMENT TO PAY EXPENSES				
APPLICANT intends to file an application with the PRAIRIE VILLAGE PLANNING COMMISSION or the PRAIRIE VILLAGE BOARD OF ZONING APPEALS of the CITY OF PRAIRIE VILLAGE, KANSAS (City) for Somerset Plaza Exterior Renovation				
As a result of the filing of said application, CITY may incur certain expenses, such as publication costs, consulting fees, attorney fees and court reporter fees.				
APPLICANT hereby agrees to be responsible for and to CiTY for all cost incurred by CiTY as a result of said application. Said costs shall be paid within ten (10) days of receipt of any bill submitted by CiTY to APPLICANT. It is understood that no requests granted by CiTY or any of its commissions will be effective until all costs have been paid. Costs will be owing whether or not APPLICANT obtains the relief requested in the application. Applicant's Signature/Date Owner's Signature/Date				











RENDER 04

STAFF REPORT

TO: Prairie Village Planning Commission

FROM: Chris Brewster, Gould Evans, Planning Consultant **DATE:** January 8, 2019, Planning Commission Meeting

Application: PC 2019-103

Request: Revised Site Plan to Add 3 Antenna on Existing Monopole Wireless

Telecommunications Installation

Action: A Site Plan requires the Planning Commission to apply the facts of

the application to the standards and criteria of the ordinance, and

if the criteria are met to approve the application

Property Address: 3921 W. 63rd Street, Consolidated Fire District #2

Applicant: Darryl Cain, Centerline Solutions on behalf of CFD#2 and Lisa Self

of T-mobile

Current Zoning and Land Use: R-1A Single-Family District - existing use is a fire station

Surrounding Zoning and Land Use: North: R-1B Single-Family District - Church and Single Family

East: R-1A Single-Family District - Middle School
South: R-1A Single-Family District - Middle School
West: R-1A Single-Family District - Middle School

Legal Description: Indian Fields, Lot 3, BLK A

Property Area: 1.25 acres

Related Case Files: PC 2018-119 Revised Site Plan to Replace 3 Antenna

PC 2015-10 Renewal of Special Use Permit for Monopole and

Equipment Compound

PC 2015-104 Renewal of Special Use Permit for a Monopole

PC 2013-108 Site Plan Approval for AT&T PC 2011-109 Site Plan Approval for T-Mobile PC 2010-115 Site Plan Approval for AT&T

PC 2010-03 SUP for a Wireless Communications Facility

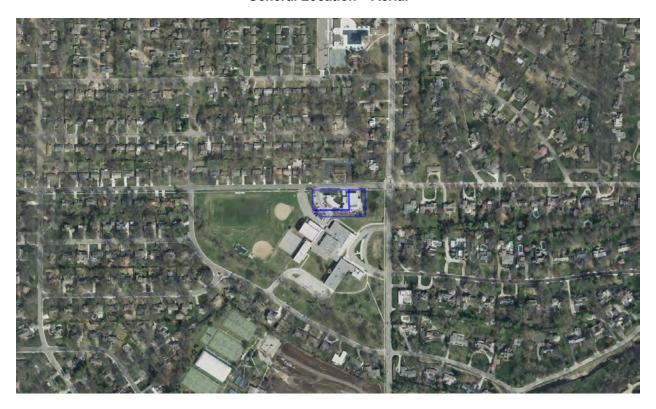
PC 97-110 Site Plan Approval for Fire Station

Attachments: Application, Proposed Plans, Current Photos

General Location – Map



General Location – Aerial



Site – Aerial



Site - Birdseye



PC 2019-103 January 8, 2019 - Page 4



Street View – Looking east on 63rd Street



Street View – Looking southwest from intersection of 63rd and Mission

The applicant is requesting approval of a revised site plan to do the following for an existing monopole wireless telecommunications installation owned by the Consolidated Fire District No. 2 of Johnson County:

- Add 6 antenna (sizes are not given but plans specify typical T-mobile antenna and they will be entirely enclosed) - 2 per sector at the 100' elevation inside the existing space of the canister enclosing all antenna mounts.
- Add equipment cabinets (8'x8') and generator (4'x 3.5')in a 10' x 15' area of the existing and enclosed equipment platform
- Install 1 hybrid cable (approximately 1"-2" diameter, from antenna to ground equipment compound behind the screening wall and internal to tower).
- Install accessory utility meters and lines near compound entries.

The property on the south side of 63rd Street just west of Mission Road, is zoned R-1A and is used as a fire station as a permitted use in this district. The telecommunications facilities are operating under a valid special use permit. This installation is a monopole wireless telecommunications installation, with the antenna facilities shrouded within a canister. The equipment compound is located in a brick walled area that matches the building and supporting equipment is not detectible, and the cables are internal to the tower structure. The original application was approved in 2010 for Verizon, who transferred ownership of the tower to the Fire District. The special use permit was renewed in 2015 for the construction of a new tower with expanded capacity to handle multiple providers, including Verizon, AT&T, T-Mobile, and Sprint. The special use permit is subject to all of the standard telecommunication facility conditions, several conditions on the location and height of the tower, several conditions related to the capacity and co-location. In addition, the conditions require that all facilities are internal to the shroud and pole structure, and that any change of equipment or new facilities be approved through the City's site plan review process.

It is the opinion of Staff that the request does not substantially change the installation and should be approved. The proposed antenna is a monopole built for multiple providers, with all equipment internal to the pole and shroud structure. This application is consistent with the existing antenna on the tower, and will not visibly increase the intensity of the installation when viewed from the streetscapes or adjacent properties.

The applicant has submitted a structural report dated October 4, 2018 analyzing the existing facilities and effect of the proposal, and found that the existing structures are adequate as proposed. The report summary does state that 3 antenna and 9 remote radio units will be added, however the proposal is for 6 antenna in 3 sectors. Prior to permits the applicant shall confirm that this structural analysis is valid for the latest plan set.

The application must comply with all 23 conditions of the existing special use permit.

The Planning Commission shall give consideration to the following criteria in approving or disapproving a site plan.

A. The Site is capable of accommodating the building, parking areas and drives with appropriate open space and landscape.

The capacity of the site to accommodate all equipment was addressed in the renewal of the special use permit. The proposed antenna will not increase any impacts that would require a change to that permit or conditions.

B. Utilities are available with adequate capacity to serve the proposed development.

This is an existing installation and adequate utilities are available to serve the location.

C. The plan provides for adequate management of stormwater runoff.

No additional impervious area will be created, and, therefore, a stormwater management plan is not required.

D. The plan provides for safe and easy ingress, egress, and internal traffic circulation.

The site is an existing installation and utilizes the driveway and parking for the building. The ability of the site to accommodate ingress and egress was addressed in the renewal of the special use permit. The proposed antenna will not increase any impacts for ingress and egress to the site.

E. The plan is consistent with good land planning and good site engineering design principles.

This is a monopole facility with a shrouded design and internal cable system that minimizes the visual impact of facilities on the abutting property and surrounding community. Additionally, this is the replacement of existing antenna of a comparable or smaller size, so no visible differences should be detected provided the applicant meets all of the shrouding conditions.

F. An appropriate degree of compatibility will prevail between the architectural quality of the proposed building and the surrounding neighborhood.

This is a monopole installation with a shroud designed to screen all facilities or keep them internal to the pole structure. The proposed antenna will be the same as the existing antenna and designed to minimize visibility from the streetscape.

G. The plan represents an overall development pattern that is consistent with the comprehensive plan and other adopted planning policies.

This is an existing building and site. While wireless communication facilities are not specifically addressed in Village Vision, this is civic use with an existing telecommunications facility, and the City's wireless communication policies and regulations promote co-location and location of facilities on civic and institutional properties.

RECOMMENDATION:

It is the recommendation of Staff that the Planning Commission approve the proposed site plan subject to the following conditions:

- 1. That the additional antenna be installed as shown on the proposed site plan.
- That all conditions of the most recent renewal of the special use permit continue to be met, and particularly condition number 13, requiring that all facilities be installed internal to the tower and shroud.
- 3. Prior to building permits the applicant shall verify that the structural analysis dated October 4, 2018 is valid for the latest plan sets.

M	CITY OF PRAIRIE VILLAGE
	760 Star of Xansas Cust # 20457 App# 0018917
747	APP # 0018917

12/11/2018 HOOFF42 Planning Commission Application

For Office Use Only	Please complete this form and return with Information requested to:		
Case No.: PC 20/9-103	mormation requested to.		
Filing Fee: */00 Deposit: *500	Assistant City Administrator		
Deposit: \$500 Date Advertised:	City of Prairie Village		
Date Notices Sent:	7700 Mission Rd.		
Public Hearing Date: 1/8/19	Prairie Village, KS 66208		
Tuble Heating Date. // 3//3			
Applicant: Dacryl Cari	Phone Number: 913 - 293 - 8120		
•	ue, KS E-Mail derine centerline solutions, com		
Owner: T-Mobile - Lisa Sel	F Phone Number: 913-486-4703		
•	<u>Zip: 66213</u>		
	63 rd St., Prainie Village, KS 66208		
Legal Description: Consolidately 1	Five Dist. # Z Station		
Applicant requests consideration of the following: (Describe proposal/request in detail) Adding cell autennes to existing Monopole and base			
station equipment.			
AGRE	EEMENT TO PAY EXPENSES		
APPLICANT intends to file an application with the PRAIRIE VILLAGE PLANNING COMMISSION or the PRAIRIE VILLAGE BOARD OF ZONING APPEALS of the CITY OF PRAIRIE VILLAGE, KANSAS (City) for			
	n, CITY may incur certain expenses, such as publication		
costs, consulting fees, attorney fees and	court reporter fees.		
-	·		
APPLICANT hereby agrees to be resp	onsible for and to CITY for all cost incurred by CITY as a		
result of said application. Said costs shall be paid within ten (10) days of receipt of any bill			
submitted by CITY to APPLICANT. It is understood that no requests granted by CITY or any of its commissions will be effective until all costs have been paid. Costs will be owing whether			
or not APPLICANT obtains the relief requested in the application.			
1) (E-C= 11/30/18	Del Car La 7. Maile		
Applicant's Signature/Date	Owner's Signature/Date		



APPLICANT SITE NAME:

PRAIRIE VILLAGE FD TOWER

APPLICANT SITE NUMBER:

A5D0310A

DRAWING DESCRIPTION:

FOR CONSTRUCTION NEW SITE BUILD

APPROVAL SIGNATURE BLOCK		
THE FOLLOWING PARTIES HAVE REVIEWED THESE DOCUMENTS:		
	APPROVED	
	REJECTED	
SITE ACQUISITION (PRINT)		DATE
	П	
	☐ APPROVED ☐ REJECTED	
RF ENGINEER (PRINT)	<u> </u>	DATE
	APPROVED	
	REJECTED	
CONSTRUCTION MANAGER (PRINT)		DATE
	APPROVED	
	REJECTED	
OPERATIONS (PRINT)		DATE
	_	
	APPROVED	
PROJECT MANAGER (PRINT)	REJECTED	DATE
PROJECT MANAGER (PRINT)		DATE

F - Mobile -

APPLICANT SITE NAME: PRAIRIE VILLAGE FD TOWER APPLICANT SITE NUMBER:

A5D0310A

PROJECT: **NEW SITE BUILD**

RFDS CONFIGURATION: CUSTOM

RFDS DATE: 09/18/18

VECTOR ENGINEERS STRUCTURAL COMPANY:

STRUCTURAL REPORT #: U1194-678-18

STRUCTURAL DATE: OCTOBER 4, 2018 (PASS)

DRAWING DESCRIPTION: FOR CONSTRUCTION

AREA MAP



AERIAL MAP



JURISDICTION COMPLIANCE ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK

INTERNATIONAL BUILDING CODE (2012 IBC) INTERNATIONAL MECHANICAL CODE ANSI/TIA-222 STRUCTURAL STANDARD NFPA 780 - LIGHTNING PROTECTION CODE UNIFORM PLUMBING CODE NATIONAL ELECTRICAL CODE

CONSULTANT

CONSTRUCTION MANAGER

OPERATIONS MANAGER

T-MOBILE

T-MOBILE RF ENGINEER

LANDLORD



Know what's helow Call before you dig.

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO T-MOBILE SERVICES IS STRICTLY PROHIBITED.

THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOT INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THE AREA. IS IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY THE CONTRACTOR'S ACTIVITIES.

SITE INFORMATION

39° 0' 52.74" N (39.01465°) (NAD 83)

94° 37' 52,36" W (-94,63121°) (NAD 83)

SITE ADDRESS:	3921 W 63RD STREET PRARIE VILLAGE, KS 66208
COUNTY:	JOHNSON
PROPERTY OWNER:	PRAIRIE VILLAGE FD TOWER 3921 W 63RD STREET PRAIRIE VILLAGE, KS 66208
TOWER INFORMATION:	

LONGITUDE: GROUND ELEVATION: TOP OF (E) TOWER: 150'-0" AGI APPLICANT CL: 100'-0" AGL APPLICANT: 12980 S FOSTER STREET, SUITE 200

OVERLAND PARK, KS 66213 KANSAS CITY POWER & LIGHT (TBC) POWER: TELCO: AT&T (TBC)

SPECIAL PROVISIONS

TONY LOPEZ PH: 913-432-1105

GATE ACCESS CODE:

SIGNATURE

LANDLORD CONTACT NAME:

LATITUDE:

APPROVALS

CONSULTING TEAM

DRAWING INDEX

T-MORILE FOLIPMENT PLAN AND ELEVATION

ELEVATION AND ANTENNA PLAN ANTENNA CONFIGURATION KEY

EQUIPMENT CONFIGURATION KEY NSN CONFIGURATION DIAGRAM

ANTENNA ONE-LINE DIAGRAM

T-MOBILE EQUIPMENT DETAILS T-MOBILE EQUIPMENT DETAILS

T-MOBILE EQUIPMENT DETAILS T-MOBILE PLATFORM DETAIL

T-MOBILE CABLE BRIDGE DETAIL

T-MOBILE EQUIPMENT ELEVATION CONSTRUCTION DETAILS

GENERATOR SPECIFICATIONS OVERALL ELECTRICAL SITE PLAN

ENLARGED ELECTRICAL PLAN

ANTENNA GROUNDING PLAN GROUNDING DETAILS

ONE-LINE / CALCS

PANEL SCHEDULE UTILITY DETAILS OVERALL GROUNDING PLAN

GENERAL NOTES

SHEET TITLE

TITLE SHEET OVERALL SITE PLAN ENLARGED SITE PLAN

DATE		
	ENGINEERING:	CENTERLINE SOLUTIONS 16035 TABLE MOUNTAIN PARKWAY GOLDEN, CO 80403 PH: 303.993.3293
		LEAD ENGINEER: KHRISTOPHER SCOTT, P.E.
		LEAD ELECTRICAL: ASEI ENGINEERING

A1.0 A1.1

A1 2 A2.0 A3.0 A3.1 RF1

A4.0

A5.0 A5.1 A5.2 A5.3 A5.4 A5.5 A6.0 A7.0 E1.0

E1.1

E2.0 E2.1 E3.0 G1.0

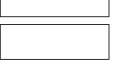
G1.1 G2.0

PROJECT MANAGER: DARRYL CAIN, P.E.

LEAD DESIGNER; LAURA LASHER

T - Mobile







CP PROJECT NO.: TMO-18-0096-29

Г	PRELIMINARY						
NO.	DATE	D/C	DESCRIPTION				
0	09-17-18	LL/JS	90% CD REVIEW				
1	10-03-18	YK/JS	NEW RFDS				
2	10-23-18	LL/JS	CLIENT COMMENT				
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		LL/JS					
	11-09-18	LL/JS	FOR CONSTRUCTION				
	11-09-18	LL/JS	FOR CONSTRUCTION				

SITE NAME: PRAIRIE VILLAGE FD TOWER

SITE ID: A5D0310A

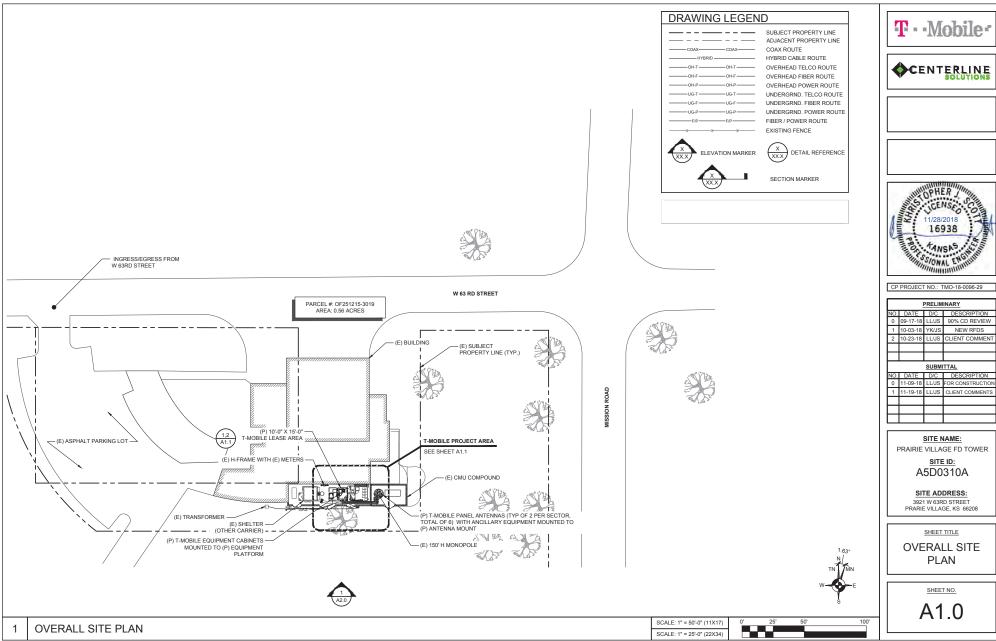
SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE, KS 66208

SHEET TITLE

TITLE SHEET

SHEET NO.

T1.0



T - Mobile





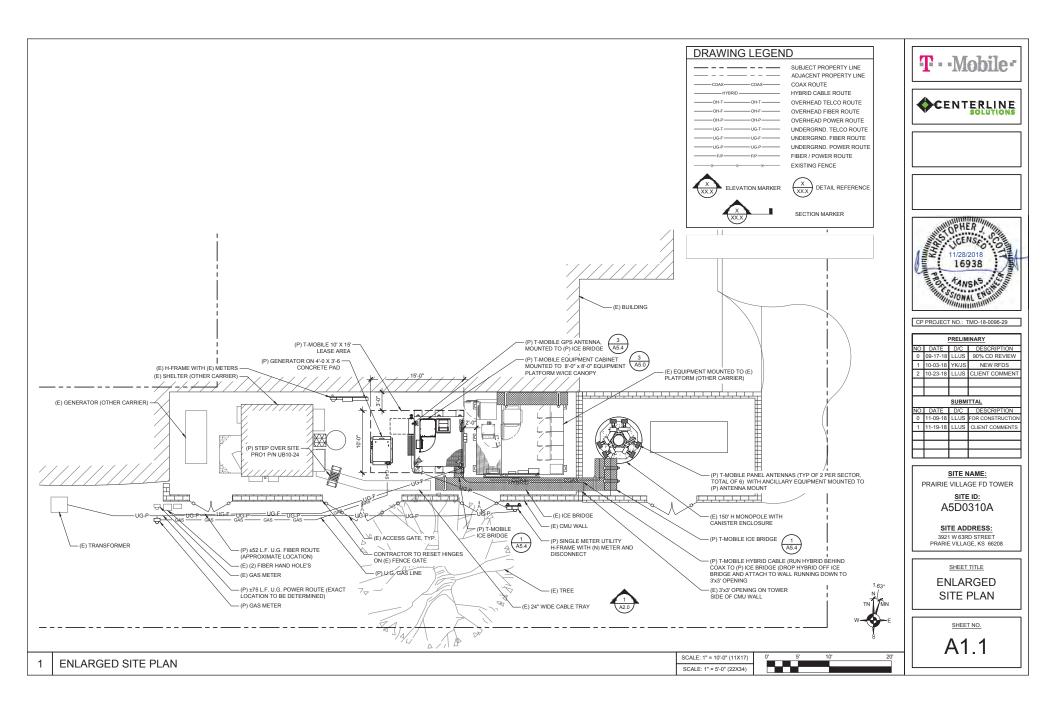


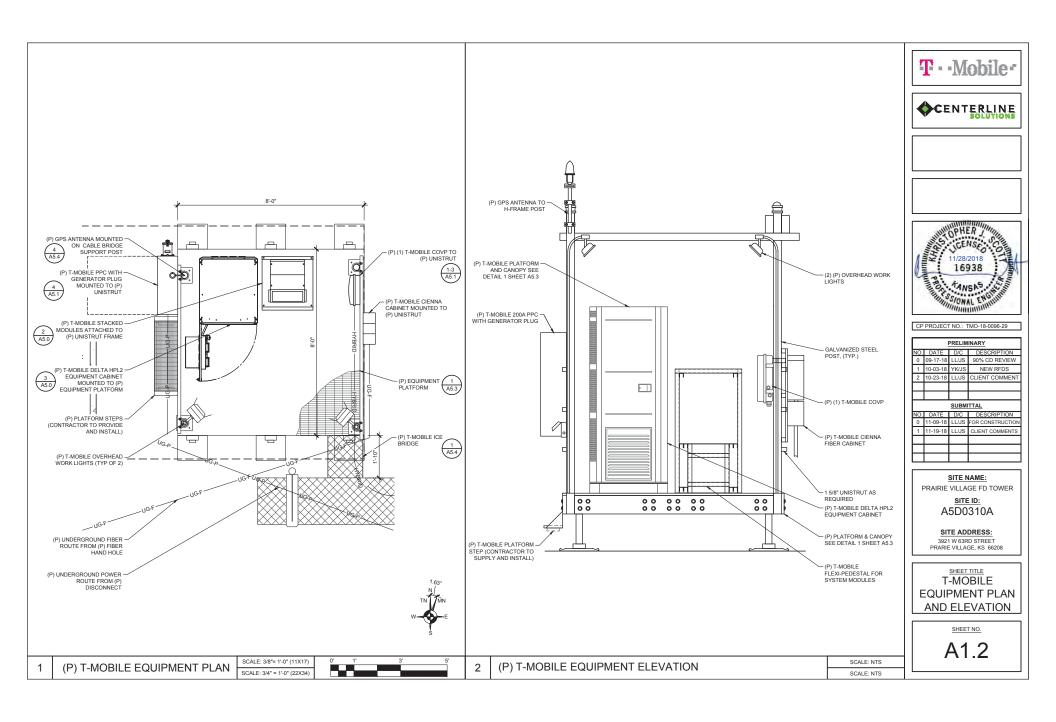
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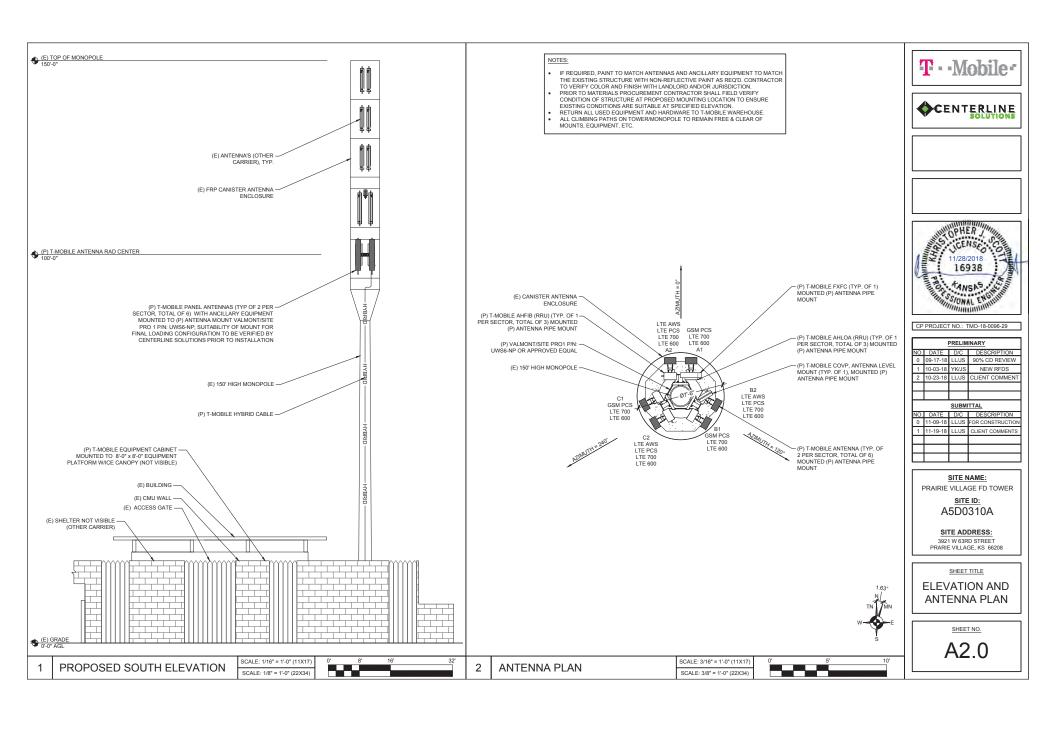
PRAIRIE VILLAGE FD TOWER

A5D0310A

SITE ADDRESS:







ANTENNA NOTES:

- 1. ANTENNA CONTRACTOR SHALL INSURE THAT ALL ANTENNA MOUNTING PIPES ARE PLUMB
- 2. FEEDLINE LENGTHS INDICATED ARE APPROXIMATE.
- 3. ANTENNA COAXIAL FEEDERS & ANTENNA JUMPERS SHALL BE COLOR CODED PER T-MOBILE REQUIREMENTS. THE FOLLOWING CHECKER STRIPE SHALL BE ADDED TO EACH ANTENNA FEEDLINE & ANTENNA JUMPER.
- LTE 600 SOLID WHITE STRIPE
- LTE 700 RED-BLACK CHECKER STRIPE
- LTE PCS GREEN-BLACK CHECKER STRIPE
- LTE AWS YELLOW-BLACK CHECKER STRIPE UMTS PCS - RED-WHITE CHECKER STRIPE
- UMTS PCS RED-WHITE CHECKER STRIPE UMTS AWS - GREEN-WHITE CHECKER STRIPE GSM PCS - BLACK-WHITE CHECKER STRIPE
- 4. IN ADDITION TO THE COLOR CODE THE FOLLOWING ANTENNA SECTOR COLOR STRIPE SHALL BE ADDED TO EACH ANTENNA SECTOR FEEDLINE & JUMPER.

ALPHA - RED STRIPE BETA - YELLOW STRIPE GAMMA - BLUE STRIPE DELTA - GREEN STRIPE HYBRID - GRAY STRIPE

 MULTI PORT ANTENNAS: TERMINATE UNUSED ANTENNA PORTS WITH CONNECTOR CAP & WEATHERPROOF THOROUGHLY, JUMPERS FROM TMA'S MUST TERMINATE TO OPPOSITE POLARIZATIONS IN EACH SECTOR.

6. CONTRACTOR MUST FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS REGARDING THE INSTALLATION OF FEEDLINES, CONNECTORS, AND ANTENNAS.

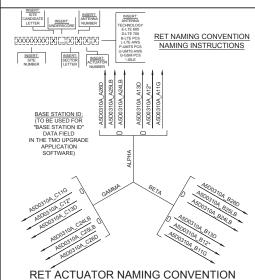
7. MINIMUM BEND RADIUS: LDF4-50A (1/2" HARD LINE) = 5" FS4I-50B (1/2" SUPER FLEX) = 1 1/4" AVA5-50A (7/8" HARD LINE) = 10" AVA7-50A (1-5/8" HARD LINE) = 15" LDF7-50A (1-5/8" HARD LINE) = 20"

8. CONTRACTOR SHALL RECORD THE SERIAL #, SECTOR, AND POSITION OF EACH ACTUATOR INSTALLED AT THE ANTENNAS AND PROVIDE THE INFORMATION TO T-MOBILE.

9. WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE.

10. ANTENNA CONTRACTOR SHALL PERFORM A "TAPE DROP" MEASUREMENT TO CONFIRM/
VALIDATE ANTENNA CENTERLINE (ACL) HEIGHT. CONTRACTOR SHALL SUBMIT A COMPLETED
HEIGHT VERIFICATION FORM TO THE CONSTRUCTION MANAGER.

11. ALL FIBER RUNS CONTAINED IN ONE COMMSCOPE HYBRID DC-FIBER CABLE (MODEL# ASU9325TYP01) FROM LOWER COVP TO UPPER COVP, HYBRID CABLE SHALL BE COLOR CODED PER T-MOBILE REQUIREMENTS.



						ANTENNA	KEY						
STATU	ANTENNA NUMBER /	COLOR (SEE NO		BEAM	ANTENNA	MODEL#	AZIMUTH	ELEC.	MECH.	ANTENNA CENTERLINE	TECH	HYBRID	FEEDER
S	SERVICED TECH.	SECTOR COLOR/#	TECH. COLOR(S)	WIDTH	VENDOR	WODEL#	AZINOTH	DOWNTILT	DOWNTILT	AGL	TEON	(QTY) SIZE	COLOR
NEW	LTE AWS LTE PCS LTE 700 A2	RED 4 RED 3 RED 2 RED 1 RED 2 RED 1	YB+GB YB+GB YB+GB YB+GB RB RB	65°	COMMSCOPE	FHH-65C-R3	0°	TBD	0°	100'	LTE AWS LTE PCS LTE 700 LTE 600 DARK		
NEW	GSM PCS LTE 700 A1	RED 4 RED 3 RED 2 RED 1 RED 2 RED 1	BW BW - - RB RB	65°	COMMSCOPE	FHH-65C-R3	0°	TBD	0°	100'	GSM PCS LTE 700 LTE 600 DARK		
NEW	LTE AWS LTE PCS LTE 700 B2	YELLOW 4 YELLOW 3 YELLOW 2 YELLOW 1 YELLOW 2 YELLOW 1	YB+GB YB+GB YB+GB YB+GB RB RB	65°	COMMSCOPE	FHH-65C-R3	120°	TBD	0°	100'	LTE AWS LTE PCS LTE 700 LTE 600 DARK	(1) (P) HI-CAP	GRAY 1
NEW	GSM PCS LTE 700 B1	YELLOW 4 YELLOW 3 YELLOW 2 YELLOW 1 YELLOW 2 YELLOW 1	BW BW - - RB RB	65°	COMMSCOPE	FHH-65C-R3	120°	TBD	0°	100'	GSM PCS LTE 700 LTE 600 DARK	(175')	GRATI
NEW	LTE AWS LTE PCS LTE 700 C2	BLUE 4 BLUE 3 BLUE 2 BLUE 1 BLUE 2 BLUE 1	YB+GB YB+GB YB+GB YB+GB RB RB	65°	COMMSCOPE	FHH-65C-R3	240°	TBD	0°	100'	LTE AWS LTE PCS LTE 700 LTE 600 DARK		
NEW	GSM PCS LTE 700 C1	BLUE 4 BLUE 3 BLUE 2 BLUE 1 BLUE 2 BLUE 1	BW BW - - RB RB	65°	COMMSCOPE	FHH-65C-R3	240°	TBD	0°	100'	GSM PCS LTE 700 LTE 600 DARK		









CP PROJECT NO.: TMO-18-0096-29

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NO.	DATE	D/C	DESCRIPTION			
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1	11-19-18	LL/JS	CLIENT COMMENTS			
Г						

<u>SITE NAME:</u> PRAIRIE VILLAGE FD TOWER

> SITE ID: A5D0310A

SITE ADDRESS:

3921 W 63RD STREET PRARIE VILLAGE, KS 66208

ANTENNA
CONFIGURATION
KEY

SHEET NO.

A3.0

ANTENNA NOTES:

1. ANTENNA CONTRACTOR SHALL INSURE THAT ALL ANTENNA MOUNTING PIPES ARE PLUMB.

2. FEEDLINE LENGTHS INDICATED ARE APPROXIMATE.

3. ANTENNA COAXIAL FEEDERS & ANTENNA JUMPERS SHALL BE COLOR CODED PER T-MOBILE REQUIREMENTS. THE FOLLOWING CHECKER STRIPE SHALL BE ADDED TO EACH ANTENNA FEEDLINE & ANTENNA FEEDLINE RECOLOR.

LTE 600 - SOLID WHITE STRIPE
LTE 700 - RED-BLACK CHECKER STRIPE
LTE PCS - GREEN-BLACK CHECKER STRIPE
LTE AWS - YELLOW-BLACK CHECKER STRIPE
UMTS PCS - RED-WHITE CHECKER STRIPE
UMTS AWS - GREEN-WHITE CHECKER STRIPE
SWM PCS - BLACK-WHITE CHECKER STRIPE
SWM PCS - BLACK-WHITE CHECKER STRIPE

4. IN ADDITION TO THE COLOR CODE THE FOLLOWING ANTENNA SECTOR COLOR STRIPE SHALL BE ADDED TO EACH ANTENNA SECTOR FEEDLINE & JUMPER.

ALPHA - RED STRIPE BETA - YELLOW STRIPE GAMMA - BLUE STRIPE DELTA - GREEN STRIPE HYBRID - GRAY STRIPE

 MULTI PORT ANTENNAS: TERMINATE UNUSED ANTENNA PORTS WITH CONNECTOR CAP & WEATHERPROOF THOROUGHLY, JUMPERS FROM TMA'S MUST TERMINATE TO OPPOSITE POI ARIZATIONS IN FACH SECTOR

6. CONTRACTOR MUST FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS REGARDING THE INSTALLATION OF FEEDLINES. CONNECTORS, AND ANTENNAS.

7. MINIMUM BEND RADIUS: LDF4-50A (1/2" HARD LINE) = 5" FSJ4-50B (1/2" SUPER FLEX) = 1 1/4" AVA5-50A (7/8" HARD LINE) = 10" AVA7-50A (1-5/8" HARD LINE) = 15" LDF7-50A (1-5/8" HARD LINE) = 20"

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9. WEATHERPROOF ALL ANTENNA CONNECTORS WITH SELF AMALGAMATING TAPE.

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11. ALL FIBER RUNS CONTAINED IN ONE COMMSCOPE HYBRID DC-FIBER CABLE (MODEL# ASU83251YPO1) FROM LOWER COVP TO UPPER COVP, HYBRID CABLE SHALL BE COLOR CODED PER T-MOBILE REQUIREMENTS.

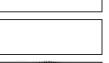
	EQUIPMENT KEY - EQUIPMENT PAD								
LOCATION	VENDOR	EQUIPMENT	MODEL NUMBER	TECHNOLOGY	QTY.	MODEL#			
EQUIPMENT RACK	NOKIA	SYSTEM MODULE	FSMF	GSM PCS	1	PROPOSED			
EQUIPMENT RACK	NOKIA	CAPACITY MODULE	ABIA	LTE AWS LTE PCS	2	PROPOSED			
EQUIPMENT RACK	NOKIA	CAPACITY MODULE	ABIA	LTE 700 L600 (DARK)	1	PROPOSED			
EQUIPMENT RACK	NOKIA	COMMON MODULE	ASIA	-	1	PROPOSED			
EQUIPMENT RACK	NOKIA	CAPACITY MODULE	ABIL	N 600 (DARK)	1	PROPOSED			
EQUIPMENT RACK	NOKIA	SYSTEM MODULE	ASIK	-	1	PROPOSED			
EQUIPMENT RACK	NOKIA	SYSTEM MODULE	AMOB	-	2	PROPOSED			
UNI-STRUT	RAYCAP	COVP	RTMDC-5634-PF-48	LTE AWS LTE PCS LTE 700	1	PROPOSED			

	EQUIPMENT KEY - SECTOR							
LOCATION	VENDOR	EQUIPMENT	MODEL NUMBER	TECHNOLOGY	QTY.	MODEL#		
MULTI SECTOR	NOKIA	RRU	FXFC	GSM PCS	1	PROPOSED		
MULTI SECTOR	NOKIA	RRU	AHLOA	LTE 700 LTE 600 (DARK) N 600 (DARK)	3	PROPOSED		
MULTI SECTOR	NOKIA	RRU	AHFIB	LTE AWS LTE PCS	3	PROPOSED		
MULTI SECTOR	RAYCAP	COVP	RTMDC-5634-PF-48	LTE AWS LTE PCS LTE 700 LTE 600 (DARK)	1	PROPOSED		

	EQUIPMENT FEEDLINE KEY							
LOCATION	VENDOR	EQUIPMENT	MODEL NUMBER	LENGTH	QTY.	STATUS		
MULTI SECTOR	COMMSCOPE	HYBRID CABLE	HI-CAP ASU9325TYP01	175'	1	PROPOSED		









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<u>SITE NAME:</u> PRAIRIE VILLAGE FD TOWER

SITE ID: A5D0310A

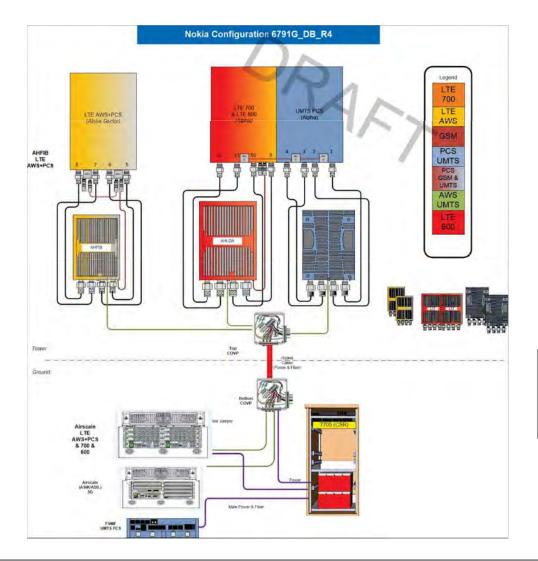
SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE, KS 66208

EQUIPMENT
CONFIGURATION
KEY

SHEET NO.

A3.1

RFDS V 0.1 6791G_DB_R4



- ALL COAXIAL CABLE CONNECTIONS TO BE WEATHERPROOFED. CONTRACTOR TO DIP CABLES AND JUMPERS WHERE NECESSARY.
- * ALL COAXIAL CABLES TO BE MARKED WITH COLOR CODED TAPE TO INDICATE THE ANTENNA SECTOR.

 * COLORED ELECTRICAL TAPE SHALL MARK EACH END OF CABLE

AND EACH END OF JUMPERS AS CLOSE TO EACH END AS POSSIBLE. (NOT TO INTERFERE WITH WATERPROOFING.)

- COAXIAL CABLE SPECIFICATIONS REQUIRE CABLE SUPPORT EVERY 3'-0" ON CENTER. CONTRACTOR SHALL SUPPLY SUPPORTS AS REQUIRED TO MEET THIS REQUIREMENT.

 VERTICAL CONNECTIONS SHALL BE TAPED FROM THE BOTTOM UP SO
- OVERLAP MOVES WATER AWAY FROM CONNECTION (SEE STEP 4). PROVIDE HEAT SHRINK IN PLACE OF TAPE FOR QUAD POLES & TMAS. ALL ANTENNAS & COAXIAL ANTENNA CABLE TO BE FURNISHED BY T-MOBILE AND INSTALLED BY CONTRACTOR.
 COAX SHALL BE TAGGED WITH COLOR CODING AT (2) PLACES USING 1*
- WIDE WEATHERPROOF COLORED VINYL TAPE AT THE FOLLOWING
- #1 AT ANTENNA CONNECTION
- #2 AT ENTRY TO EQUIPMENT CABINET
- RUN COAXIAL CABLE WITH MINIMUM 12" SLACK & 12" FROM EDGE OF EQUIPMENT CABINETS, ACROSS WAVE GUIDE BRIDGE (IF APPLICABLE), UP TO TOWER LEG (IF APPLICABLE), AND DISTRIBUTE TO EACH ANTENNA DEVICE. FURNISH AND INSTALL A MINIMUM OF (3) GROUND KITS PER COAXIAL CABLE, VERIFY NUMBER OF ANTENNAS, CABLE, AND CABLE DIAMETER WITH T-MOBILE CONSTRUCTION MANAGER.

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"minimum" CP PROJECT NO.: TMO-18-0096-29

PRELIMINARY					
NO.	DATE	D/C	DESCRIPTION		
0	09-17-18	LL/JS	90% CD REVIEW		
1	10-03-18	YK/JS	NEW RFDS		
2	10-23-18	LL/JS	CLIENT COMMENT		
		SUBM	TTAL		
NO.	DATE	D/C	DESCRIPTION		
0	11-09-18	LL/JS	FOR CONSTRUCTION		
1	11-19-18	LL/JS	CLIENT COMMENTS		

SITE NAME:

PRAIRIE VILLAGE FD TOWER

SITE ID: A5D0310A

SITE ADDRESS:

3921 W 63RD STREET PRARIE VILLAGE, KS 66208

SHEET TITLE NSN CONFIGURATION DIAGRAM

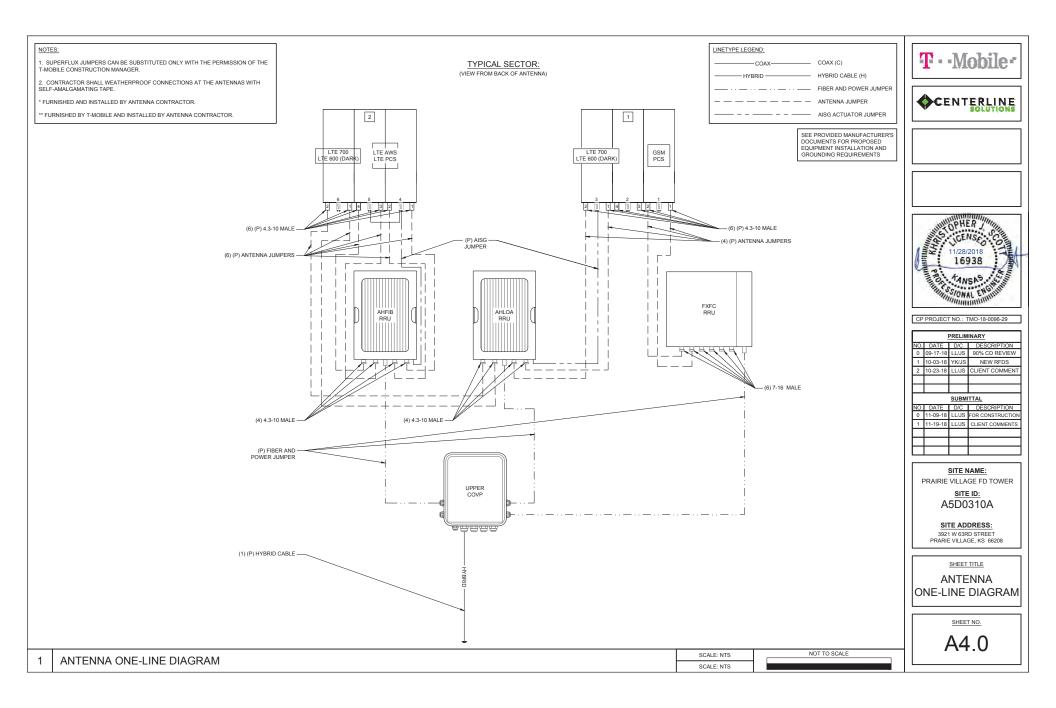
SHEET NO.

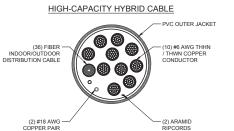
RF1

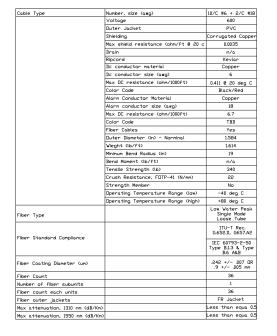
RAN SCOPE OF WORK: NEW SITE BUILD - L600/L700/L1900/L2100/LAWS3/GSM

CONFIGURATION IS CUSTOM:

USING HEXPORTS DUE TO RESTRICTED ROOM IN STEALTH CANISTER OF FLAG POLE USING (1) FXFC ON SITE FOR ALL SECTORS FOR GSM. NO U1900







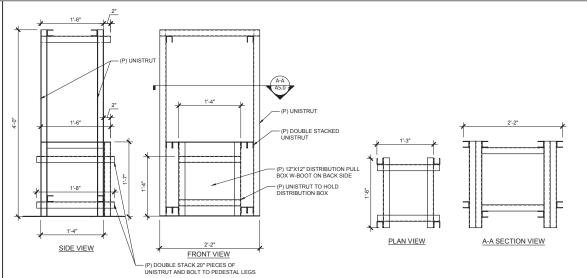
FEEDLINE DETAIL

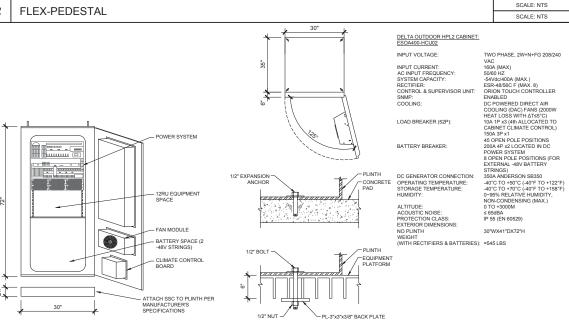
SCALE: NTS

SCALE: NTS

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DELTA HPL2 CABINET DETAIL





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CP PROJECT NO.: TMO-18-0096-29

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NO.	DATE	D/C	DESCRIPTION
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		SUBM	TTAL
NO.	DATE	D/C	DESCRIPTION
0	11-09-18	LL/JS	FOR CONSTRUCTION
0	11-09-18 11-19-18	LL/JS LL/JS	FOR CONSTRUCTION CLIENT COMMENTS
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SITE ID: A5D0310A

SITE ADDRESS:

3921 W 63RD STREET PRARIE VILLAGE, KS 66208

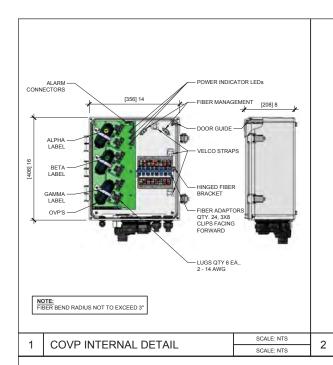
T-MOBILE
EQUIPMENT
DETAILS

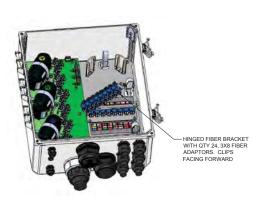
SHEET NO.

SCALE: NTS

SCALE: NTS

A5.0



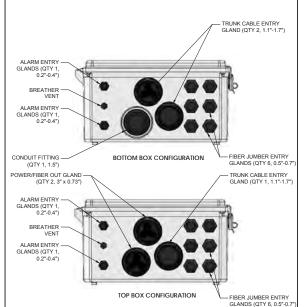


COVP INTERNAL ISO VIEW

SCALE: NTS

SCALE: NTS

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CENTERLINE SOLUTIONS

CP PROJECT NO.: TMO-18-0096-29

SCALE: NTS

SCALE: NTS

PRELIMINARY								
NO.	DATE	D/C	DESCRIPTION					
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NO.	DATE	D/C	DESCRIPTION					
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1	11-19-18	LL/JS	CLIENT COMMENTS					

SITE NAME: PRAIRIE VILLAGE FD TOWER

> SITE ID: A5D0310A

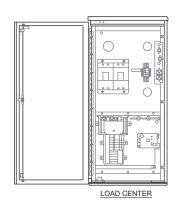
SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE, KS 66208

T-MOBILE
EQUIPMENT
DETAILS

SHEET NO.

A5.1

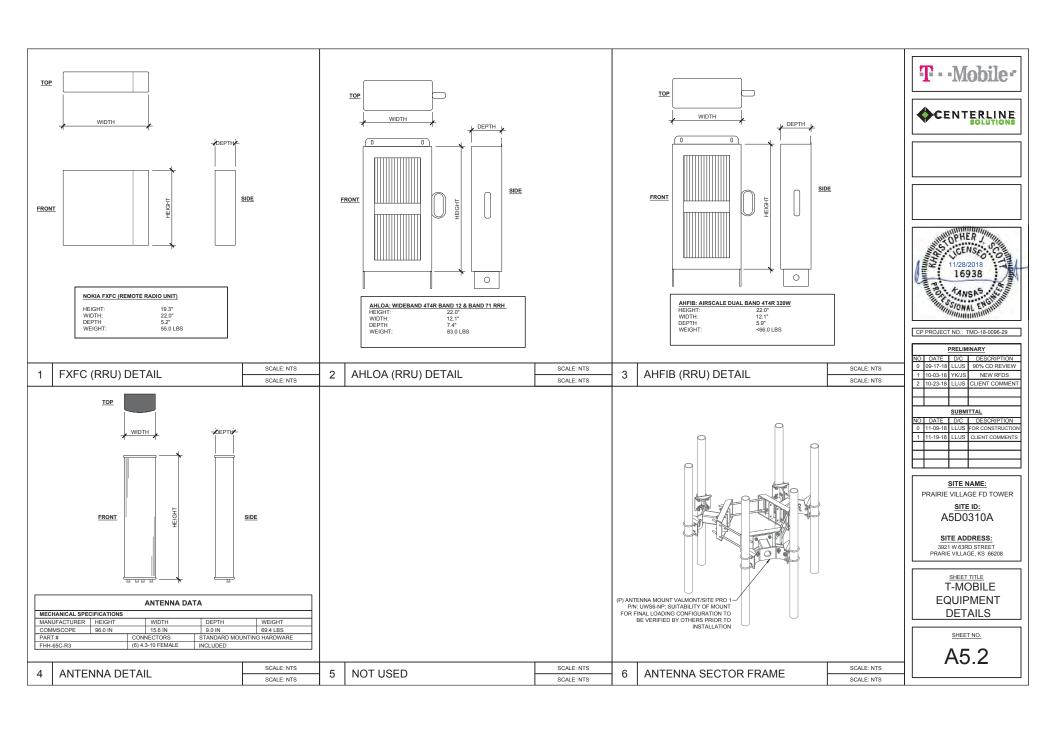




POWI	ER PEDESTAL CABINET SPECIFICATIONS
	GENERAL
CONSTRUCTION: DIMENSIONS (W X H X D): WEIGHT: FINISH: DOOR LATCH: SAFETY:	SINGLE LAYER ALIMINUM ENCLOSURE. TYPE 9R 20" X 40" X 10" (580 MM X 1016 MM X 254 MM) APPROXIMATELY 75 LBS (WITHOUT PACKAGING) POLYESTER POWDER PAINT 3-POINT LATCHING, PAD LOCKABLE UL50 (CABINET) UL891 DEAD FRONT SWITCHBOARD LISTED SUTABLE FOR USE AS SERVICE EQUIPMENT (N-G BONDING KIT INCLUDED)
	ENVIRONMENT
OPERATING TEMPERATURE: HUMIDITY (RELATIVE): PROTECTION CLASS:	-40°F TO 115°F (-40°C TO +45°C) 95%, NON-CONDENSING (MAX) TYPE 3R
	AC SECTION
VOLTAGE: CURRENT: AIC RATING: OTHER FEATURES:	120/240 1¢ (3-WIRE + GROUND) 200A UTILITY 65,000 AMPS GENERATOR INTERFACE: GENERATOR PLUG SERVICE DISCONNECT: SQUARE D 200A MANUAL TRANSFER SWITCH LOAD CENTER: SQUARE D 200A, QO SERIES, 24 POSITIONS SURGE PROTECTION DEVICE (SPD) - 1 EA. AC DATA 2080 SQUARE D 30A, 25 PBREAKER FOR SPD GROUND BAR SILKSCREENED DEAD-FRONT CAPTIVE DEAD-FRONT

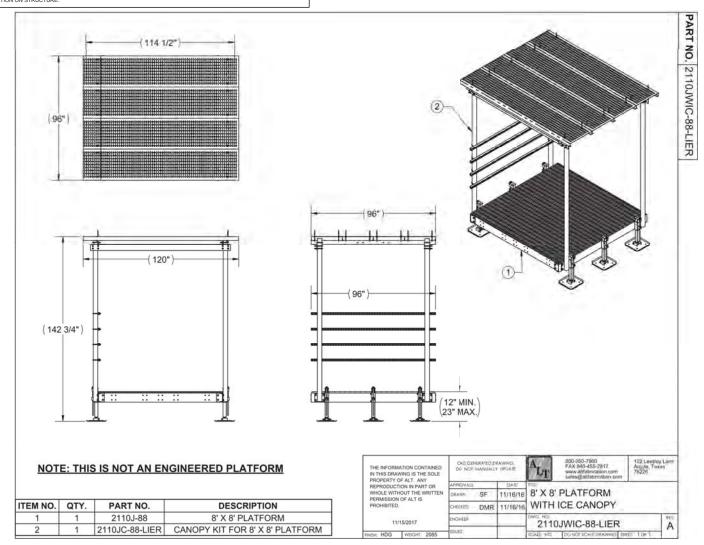
COVP CONNECTIONS DETAIL

PPC DETAIL SCALE: NTS SCALE: NTS





- NO WORK SHALL COMMENCE WITHOUT THE APPROVED STRUCTURAL PLATFORM REPORT (SIGNED AND SEALED) TO BE PROVIDED UNDER SEPARATE COVER.
- CONTRACTOR PRIOR TO CONSTRUCTION SHALL REVIEW THE APPROVED PLATFORM REPORT SUPPLIED BY T-MOBILE AND MODIFY IF REQUIRED ALL APPLICABLE MEMBERS AS INDICATED IN CERTIFIED STRUCTURAL REPORT PRIOR TO INSTALLATION ON STRUCTURE.



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CP PROJECT NO.: TMO-18-0096-29

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SITE NAME:

PRAIRIE VILLAGE FD TOWER

SITE ID: A5D0310A

SITE ADDRESS:

3921 W 63RD STREET PRARIE VILLAGE, KS 66208

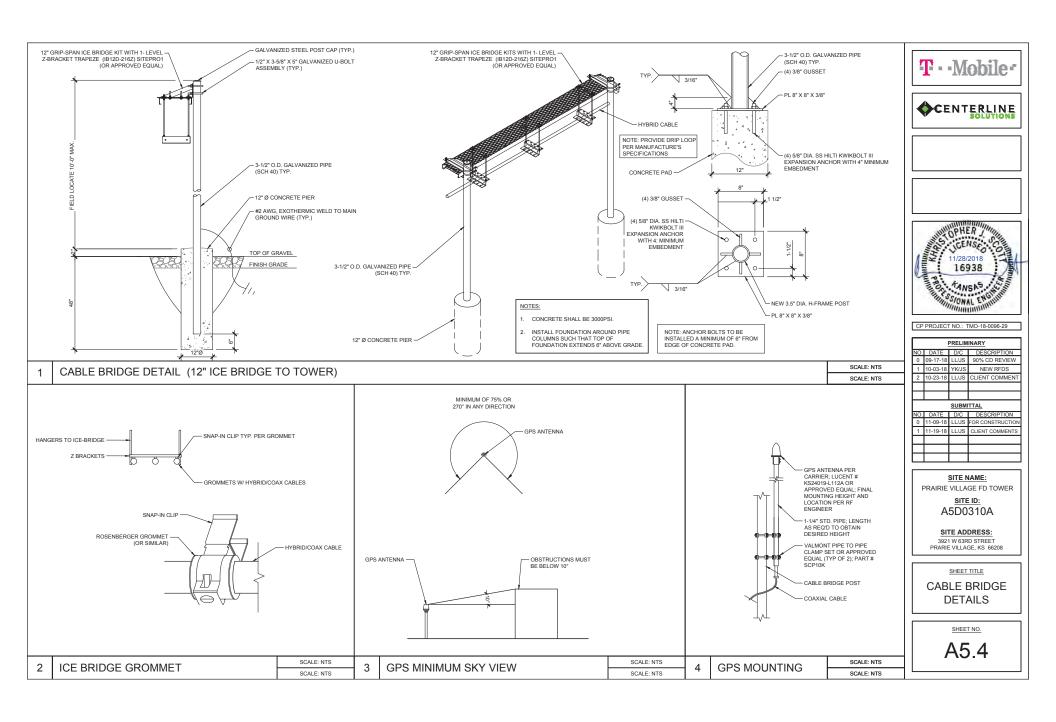
SHEET TITLE
T-MOBILE
EQUIPMENT
DETAILS

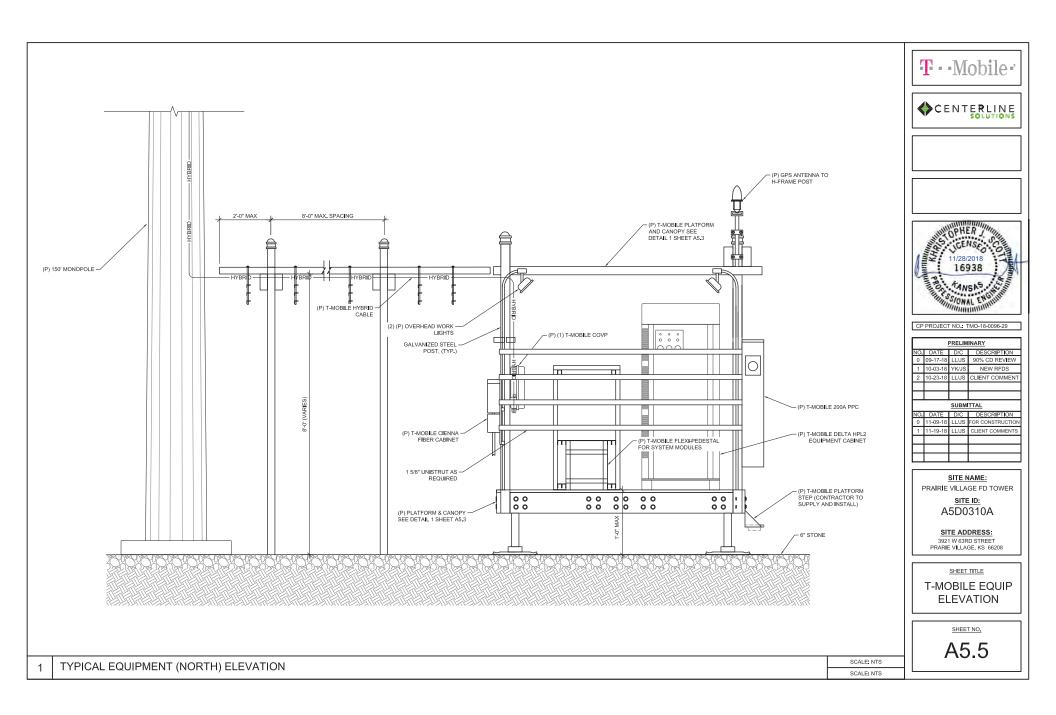
SHEET NO.

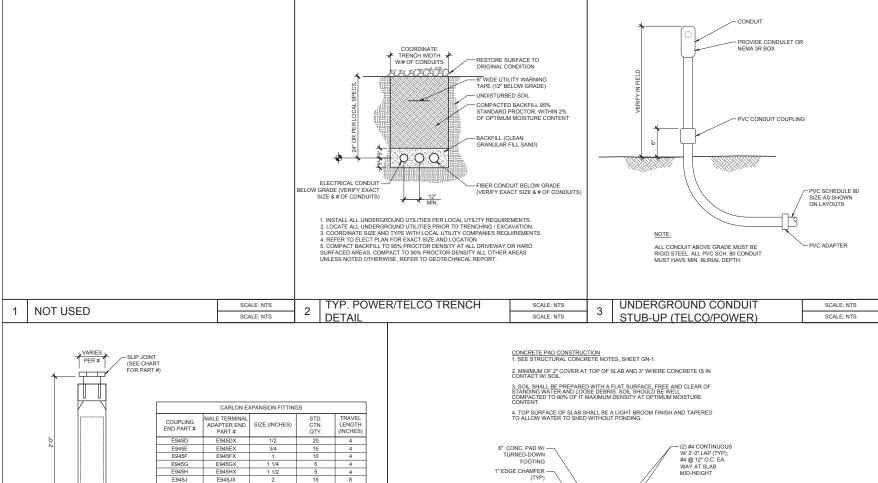
A5.3

T-MOBILE PLATFORM DETAIL

SCALE: NTS







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CP PROJECT NO.: TMO-18-0096-29

PRELIMINARY								
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П								
		SUBM	TTAL					
NO.	DATE	D/C	DESCRIPTION					
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1	11-19-18	LL/JS	CLIENT COMMENTS					
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SITE ID: A5D0310A

SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE, KS 66208

SHEET TITLE

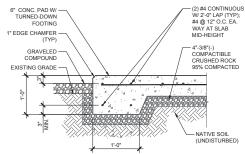
CONSTRUCTION **DETAILS**

SHEET NO.

SCALE: NTS

SCALE: NTS

A6.0



CONDUIT SLIP JOINT DETAIL

CONTRACTOR SHALL INSTALL

NOTE:

SCALE: NTS SCALE: NTS

8

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E945KX

F945I X

E945MX

F945NX

E945PX

F945I

F945M

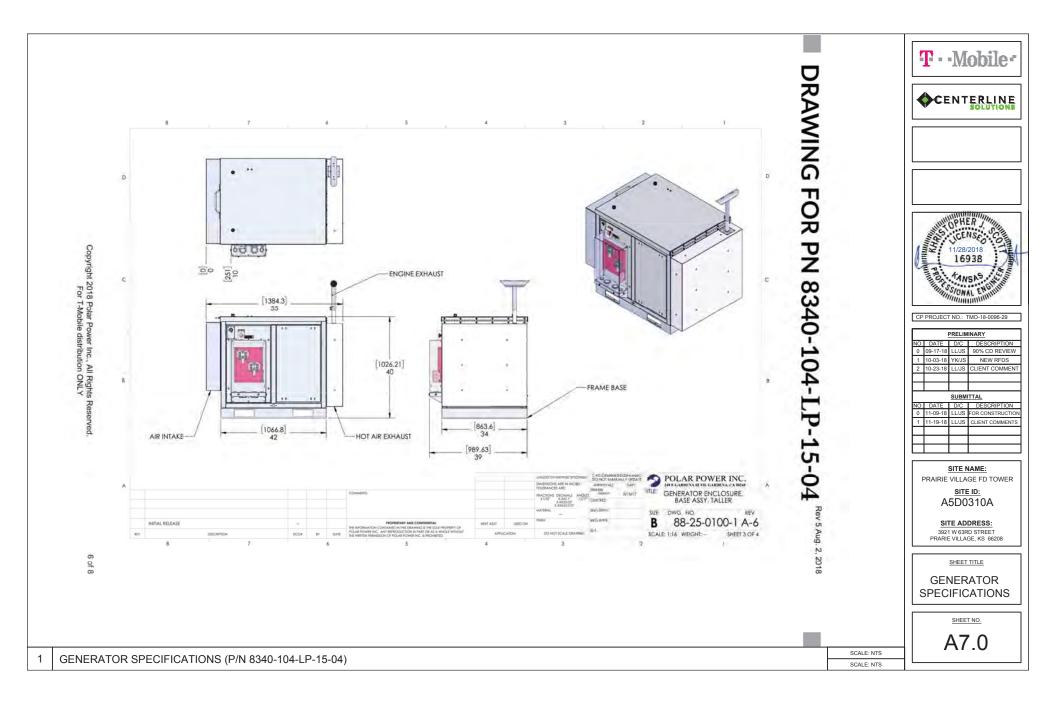
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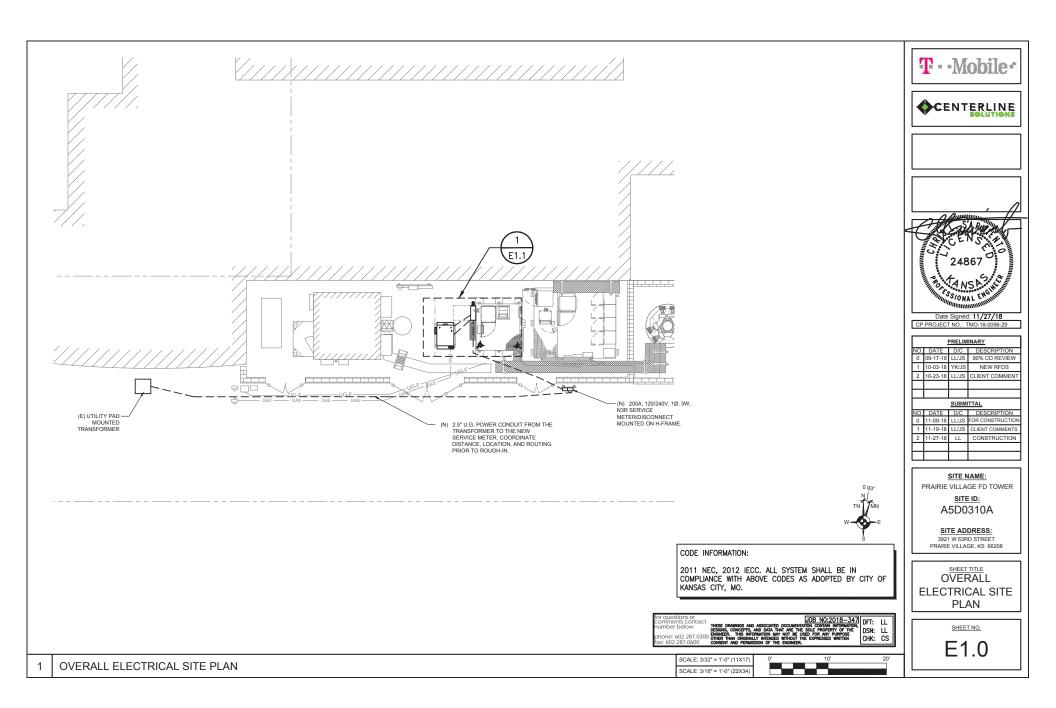
E945P

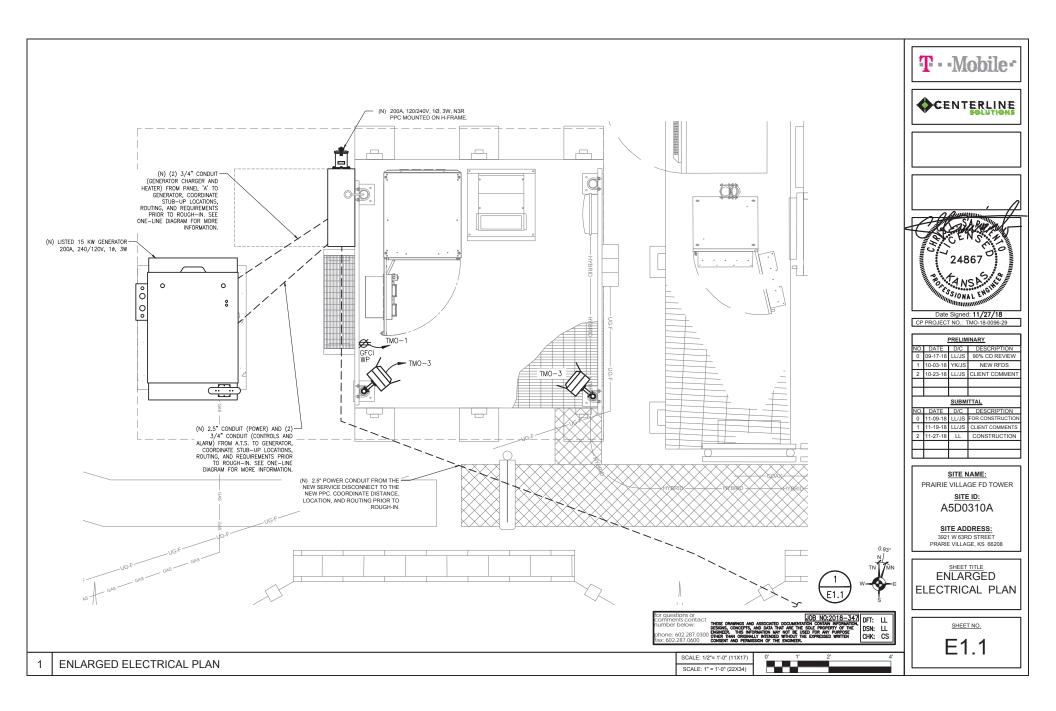
2 1/2

3 1/2

GENERATOR CONCRETE PAD







GENERAL NOTES:

 CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT FROM POWER COMPANY PRIOR TO ORDERING EQUIPMENT. NOTIFY ENGINEER IF FAULT CURRENT VALUE DIFFERS FROM AS SHOWN.

1-PHASE, LINE-TO-LINE SHORT CIRCUIT CALCULATIONS BASED ON THE "POINT-BY-POINT" METHOD

where:

I sc = the available short-circuit current, in amperes, at the beginning of the circuit.

the length of circuit to the fault, in feet.

the constant from Table C for the type of conductors and circuit arrangement.
 For parallel runs, multiply "C" value by the number of conductors per phase.
 Line-to-line voltage or Line-to-ground voltage, where applicable.

lp = primary current, in amperes.

 $\label{eq:primary line-to-line voltage of transformer, in volts.}$

 $\mbox{Vs = secondary line-to-line voltage of transformer, in volts.} \label{eq:Vs}$

%Z = impedance of transformer.

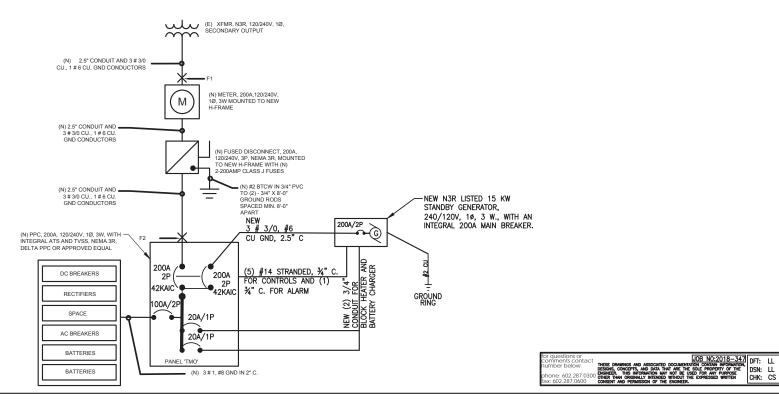
* Use row 'ca' for feeder cables; and row 'xf' for transformers.

	_									_						
Fault	۱.	Description	Source Isc	Wire / Cable Size	No. of cond.	Type of	"c"	Ε	L (length)	XFMR.	XFMR.	Vp	Vs	f	м	l sca
Point			(amps)		per phase	conduit	value	(volts)	in feet	KVA	%Z	(volts)	(volts)			(amps)
F1	ca	SERVICE ENTRANCE	54360.00											0.00	1.00	54360.00
	xf	(Assumed Infinte Buss)												0.00	1.00	0.00
F2	ca	PPC	54360.00	# 3/0 CU	1	MAG	12844	240	11					0.39	0.72	39165.30
	V#													0.00	100	0.00

Note: The above calculations neglected motor short-circuit contributions. If significant, motor short-circuit contribution may be added to the transformer secondary short-circuit current value. A practical estimate of motor contribution is to multiply the total motor load in amperes by 4.

Lengths are for calculations only. DO NOT USE for cost estimating or take-off purposes.

* Assumed 167KVA, 1-Phase transformer with 1.92% impedance



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2	11-27-18	LL	CONSTRUCTION						

SITE NAME: PRAIRIE VILLAGE FD TOWER

SITE ID: A5D0310A

SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE, KS 66208

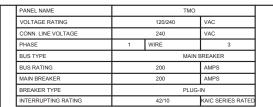
SHEET TITLE

ONE-LINE / CALCS

SHEET NO.

E2.0

ONE-LINE / CALCS



ENCL. TYPE		NEMA 3R			
MOUNTING TYPE		SURFACE			
LOCKABLE CABINE	Γ?		NO		
DOOR-IN-DOOR?			NO		
MFR.	DELTA				
MODEL		POWER PEDES	STAL CAB		
CAT. NO.					
SERIES OCPD REQ	UIRED?		YES		
FUSE TYPE		NA NA			

LOAD	POS	СВ	А	В	СВ	POS	LOAD
GFCI RECEPTACLE	1	1P20	180		2P30	2	TVSS
LIGHTS	3	1P20		216	21 00	4	1700
GEN. BLOCK HEATER	5	1P20	1400 4690		2P100	6	DELTA SSC
GEN. BATTERY CHARGER	7	1P20		504 4510		8	
BLANK	9					10	BLANK
BLANK	11					12	BLANK
BLANK	13					14	BLANK
BLANK	15					16	BLANK
BLANK	17					18	BLANK
BLANK	19					20	BLANK
BLANK	21					22	BLANK
BLANK	23					24	BLANK
			6270	6130			

		6270	6130					
LOAD TYPE	CONN. LOAD		NEC D.F.		NEC LOAD)	TOTAL	LOAD
RECEPTACLES < 10 KVA	360	×	100%	-	360	1	9.6	KVA
LIGHTING	216	×	125%	-	270	1	25.0	%
LARGEST MOTOR		×	125%	=		1	40	AMPS
UNITARY HVAC EQUIPMENT	700	×	100%	-	700	1		
DC RECTIFIERS	8320	x	100%	=	8320			
OTHER		x	100%	=				
TOTAL	9596	VA			9650	VA		
		-						

(SUBPANEL LOCATED IN SSC

(SUBPANEL LOCATED IN SS	C)			
LOAD	POS	СВ	А	В
MAIN (BOTTOM)		2P100		
		21 100		
RECTIFIER #1 & #3	1	2P50	2080	
	2			2080
RECTIFIER #2 & #4	3	2P50	2080	
	4			2080
HEAT EXCHANGER	5	2P10	350	
	6			350
GFCI RECEPT.	7	1P15	180	
•	-		4690	4510

NOTES:

1. CONTRACTOR SHALL MODIFY PANEL SCHEDULE TO SHOW ACTUAL EQUIPMENT LOADS ON REDLINED 'AS BUILT' CONSTRUCTION DRAWINGS.

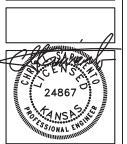
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SITE ID:

A5D0310A

SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE, KS 66208

SHEET TITLE

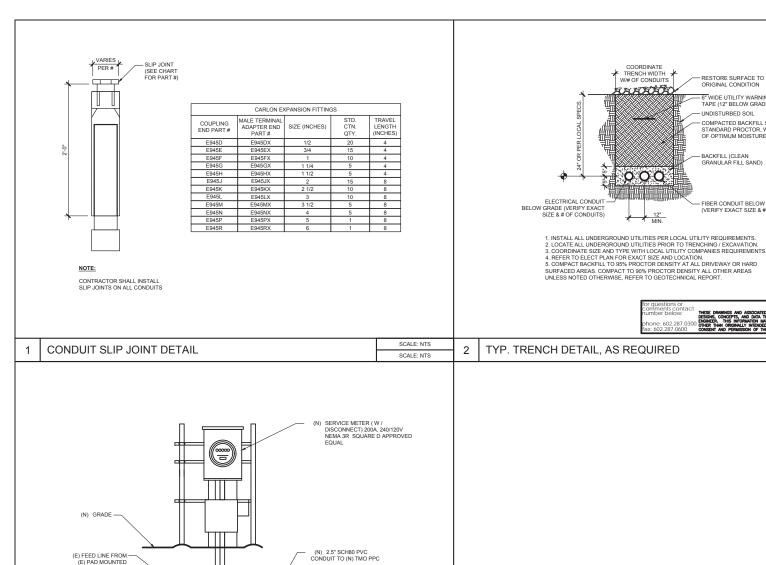
PANEL SCHEDULE

SHEET NO.

E2.1

PANEL SCHEDULE

SCALE: NTS SCALE: NTS



SCALE: NTS

SCALE: NTS

TRANSFORMER

UTILITY H-FRAME DETAILS

3

RESTORE SURFACE TO ORIGINAL CONDITION 6" WIDE UTILITY WARNING UNDISTURBED SOIL COMPACTED BACKFILL 95% STANDARD PROCTOR WITHIN 2% OF OPTIMUM MOISTURE CONTENT BACKFILL (CLEAN GRANULAR FILL SAND) - FIBER CONDUIT BELOW GRADE

- 1. INSTALL ALL UNDERGROUND UTILITIES PER LOCAL UTILITY REQUIREMENTS.

JOB NO:2018—347

DOCUMENTATION CONTAIN INFORMATION,
AT ARE THE SOLE PROPERTY OF THE
NOT BE USED FOR ANY PURPOSE
WINHOUT THE EXPRESSED WRITTEN

CHK; CS CHK: CS

PRELIMINARY D/C DES 0 09-17-18 LL/JS 90% CD REVIEW SCALE: NTS 1 10-03-18 YK/JS NEW RFDS SCALE: NTS 2 10-23-18 LL/JS CLIENT COMMENT

SUBMITTAL NO. DATE D/C DESCRIPTION 11-09-18 LL/JS FOR CONSTRUCTION 1 11-19-18 LL/JS CLIENT COMMENTS 2 11-27-18 LL CONSTRUCTION

Date Signed: 11/27/18 CP PROJECT NO.: TMO-18-0096-29

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CENTERLINE

SITE NAME:

PRAIRIE VILLAGE FD TOWER SITE ID:

A5D0310A

SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE, KS 66208

SHEET TITLE

UTILITY DETAILS

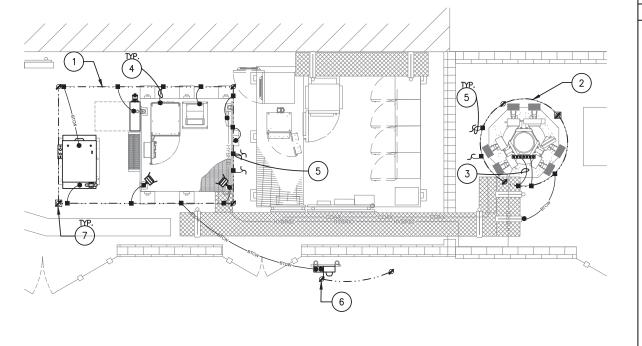
SHEET NO.

E3.0

SCALE: NTS **NOT USED** SCALE: NTS

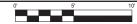


- EXISTING TOWER AND EQUIPMENT GROUND RING BURIED TO DEPTH OF 30" OR 6" BELOW THE FROST LINE, WHICHEVER IS GREATER. (TYPICAL).
- 2. EXISTING TOWER GROUNDING RING.
- BOND EXISTING TOWER TO GROUND BAR TO TOWER GROUND RING. (TYPICAL).
- 4 BOND NEW PLATFORM TO NEW GROUNDING RING
- 5. BOND NEW EQUIPMENT TO NEW GROUNDING
- 6. SERVICE ENTRANCE GROUND ROD. SEE ONE-LINE FOR MORE
- 7 GROUND TEST WELL (TYPICAL)
- 8. BOND NEW GENERATOR TO THE NEW GROUNDING RING.





SCALE: 3/16" = 1'-0" (11X17 SCALE: 3/8" = 1'-0" (22X34)



CHK: CS

EXOTHERMIC CONNECTION MECHANICAL CONNECTION

BARE TINNED COPPER WIRE STUBBED UP IN PVC

CHEMICAL ELECTROLYTIC GROUNDING SYSTEM TEST CHEMICAL ELECTROLYTIC

GROUNDING SYSTEM EXOTHERMIC WITH INSPECTION SLEEVE

***** GROUNDING BAR GROUND ROD TEST GROUND ROD WITH INSPECTION SLEEVE BURIED GROUND RING

INSULATED STRANDED COPPER WIRE - ISCW -- ISCW -

-BTCW-BARE TINNED COPPER WIRE -BTCW-- BSCW --- BSCW --- BARE STRANDED COPPER WIRE

GROUNDING LEGEND

- A. GROUNDING SHALL COMPLY WITH LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- B. ALL GROUNDING SHALL CONFORM TO THE CURRENT T-MOBILE WIRELESS STANDARDS.
- C. MINIMUM BENDING PADILIS FOR GROUND CONDUCTOR IS 8" WHEN BENDING IS NECESSARY. GROUND CONDUCTORS ARE TO BE AS STRAIGHT AS POSSIBLE.
- D. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
- E. ALL GROUNDING CONNECTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. USE PENETROX OR EQUIVALENT ANTIOXIDANT
- ALL GROUND BAR CONNECTIONS ARE TO BE 2 HOLE LUG COMPRESSION TYPE. STACKED CONNECTIONS ARE NOT ACCEPTABLE. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR WILL BE PERMITTED.
- G. ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
- H. MULTIPLE BONDS ON GROUND RODS TO BE SEPARATED BY AT LEAST
- MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED A RESISTANCE OF 5 OHMS TO EARTH.
- GROUND WIRES SHALL NOT BE INSTALLED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS TO PRECLUDE ESTABLISHING A "CHOKE" POINT.
- FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUND WIRE SHALL NOT BE USED. METAL CLIPS THAT DO NOT COMPLETELY SURROUND THE GROUND WIRE OR PLASTIC CLIPS ARE ACCEPTABLE.
- L. GROUND BARS SHALL NOT BE FIELD MODIFIED.
- M. ALL HORIZONTAL FENCE SECTIONS TO BE GROUNDED WITH 8" SINGLE BARREL GROUND STRAPS.
- N. GROUND RING BURIAL DEPTH SHALL BE 24" AND HAVE A NON-DIRECTIONAL SPLICE.
- O. A CERTIFIED CONTRACTOR WILL MAKE ALL MEASUREMENTS REQUIRED TO TEST THE GROUNDING SYSTEM, USING A MEGGER OR EQUIVALENT. THE ACCEPTABLE RESISTANCE MEASURED FOR THE GROUNDING SYSTEM MULL NOT EXCEED 6 OHMS RESISTANCE. THREE DISTANCES HE WILL NOT EXCEED 6 OHMS RESISTANCE. THREE DISTANCES ARE SUBJECT TO A SITE BY SITE BASIS. TAMOBILE SHALL BE GROWN AND HOME NOTICE BEFORE TESTING IT DISE DONE. THE COST ASSOCIATED WITH GROUND TESTING WILL BE ATTHE COST ASSOCIATED WITH GROUND TESTING WILL BE ATTHE EXPENSE OF THE CONTRACTOR
- P. PROVIDE #2 TW GREEN JUMPER FROM EACH WAVEGUIDE BRIDGE POST TO WAVEGUIDE BRIDGE CHANNEL.
- Q. ALL OUTDOOR CONNECTIONS TO BE EXOTHERMIC CADWELD, INTERIOR CONNECTIONS CAN BE A PROPERLY APPLIED CRIMP TYPE
- UNLESS OTHERWISE SPECIFIED.
 A THREE POINT SYSTEM RESISTANCE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH VERTICAL BRIDGE
- THE CONTRACTOR IN ACCURIANCE WITH VENTURAL BIBLIUSE SPECIFICATION SPECIFICATION SPECIFICATION SPECIFICATION SPECIFICATION SPECIFICATION SPECIFICATION OF THE FOLLOWING STER NAME, ADDRESS AND IDENTIFICATION NUMBER, DESCRIPTION OF SITE SOIL AND MOISTURE CONDITION, DESCRIPTION OF WEATHER, MODEL NUMBER OF TESTING EQUIPMENT, DATE OF LAST CALIBRATION, SITE SAFEOT IS STORYMOLOCATION OF TEST PROBES AND ALL PELL DISTANCE OF TESTING EQUIPMENT, DATE OF LAST CALIBRATION, SITE SAFEOT IS SHOWNING LOCATION OF TEST PROBES.
- ETC.)
 CONTRACTOR SHALL NOTIFY THE CONSTRUCTOR MANAGER IF THERE ARE ANY DIFFICULTIES PERFORMING SYSTEM RESISTANCE TESTS OF ARE ANY DIFFICULTIES FERFORMING STSTEM RESISTANCE TESTS I IF MEASUREMENTS ARE ABOVE 5 OHMS. THE CONSTRUCTION MANAGER SHALL PROVIDE INSTRUCTION TO THE CONTRACTOR TO INSTALL ADDITIONAL GROUNDING MEASURES TO MEET THE 5 OHM

GENERAL GROUNDING NOTES

T - Mobile





Date Signed: 11/27/18 CP PROJECT NO.: TMO-18-0096-29

PRELIMINARY								
NO.	DATE	D/C	DESCRIPTION					
0	09-17-18	LL/JS	90% CD REVIEW					
1	10-03-18	YK/JS	NEW RFDS					
2	10-23-18	LL/JS	CLIENT COMMENT					
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		SUBM	TTAL					
NO.	DATE	D/C	DESCRIPTION					
0	11-09-18	LL/JS	FOR CONSTRUCTION					
1	11-19-18	LL/JS	CLIENT COMMENTS					
2	11-27-18	LL	CONSTRUCTION					

SITE NAME:

PRAIRIE VILLAGE FD TOWER

SITE ID: A5D0310A

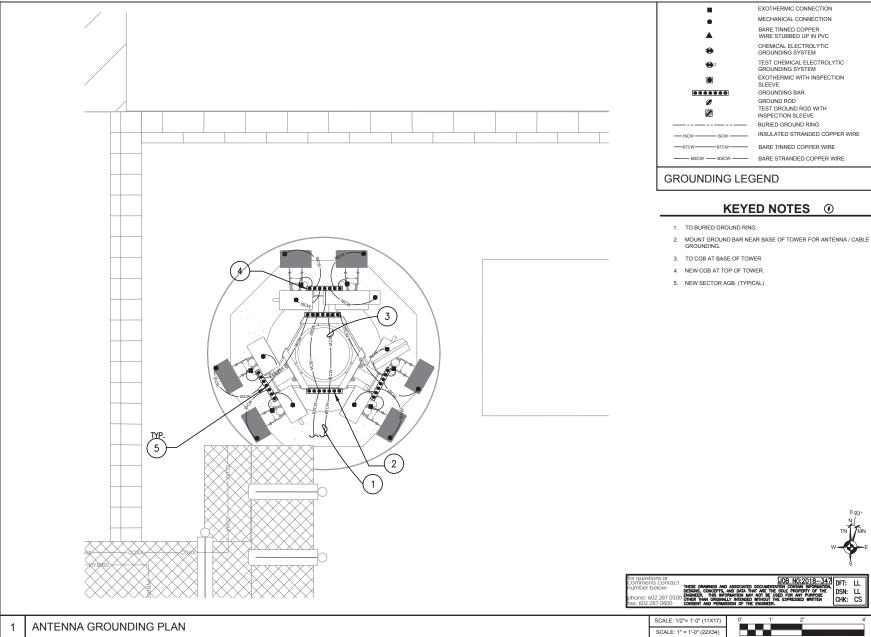
SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE, KS 66208

SHEET TITLE

OVERALL GROUNDING PLAN

SHEET NO.

G1.0



T - Mobile





Date Signed: 11/27/18 CP PROJECT NO.: TMO-18-0096-29

PRELIMINARY					
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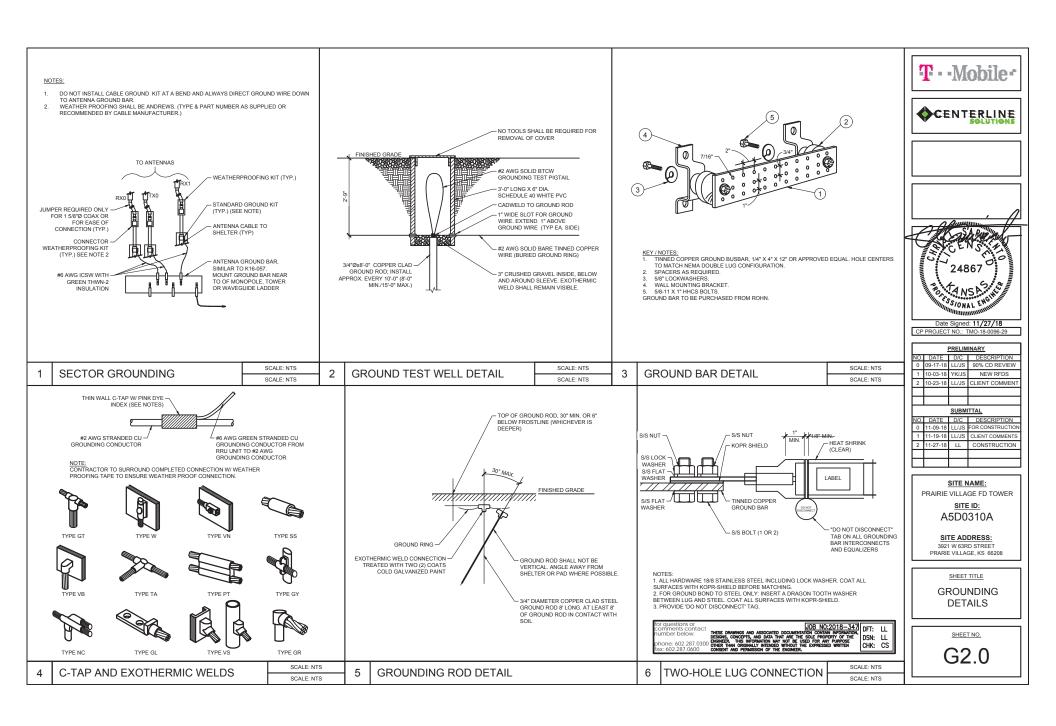
3921 W 63RD STREET PRARIE VILLAGE, KS 66208

SHEET TITLE

ANTENNA **GROUNDING PLAN**

SHEET NO.

G1.1



GENERAL CONSTRUCTION NOTES

- THE FACILITY IS AN UNOCCUPIED WIRELESS FACILITY
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY. LINESS NOTED OTHERWISE THE WORK SHALL INCLUDE FURNISHING MATERIALS. FOLLIPMENT APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- DRIOD TO THE SUBMISSION OF RIDS THE CONTRACTORS SHALL VISIT THE LOR SITE AND RE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL RECEIVE. IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT LOCAL DIGGERS HOTLINE 48 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.

 THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH
- MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT, ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS ORDINANCES RULES REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK. USING THE REST SKILLS AND ATTENTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONTRACTOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION FIELD ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN, MINOR MODIFICATIONS MAY BE
- REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE
- SITE THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE PLAT OF SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.

STRUCTURAL NOTES

GENERAL CONDITIONS

- DESIGN AND CONSTRUCTION OF ALL WORK SHALL CONFORM TO THE APPROVED EDITION OF THE IBC EDITION AND ALL OTHER APPLICABLE STATE CODES, ORDINANCES, AND REGULATIONS, IN CASE OF CONFLICT BETWEEN THE CODES, STANDARDS, AND REGULATIONS. SPECIFICATIONS, GENERAL NOTES AND/OR MANUFACTURER'S REQUIREMENTS. USE THE MOST STRINGENT PROVISION.
- IT IS THE EXPRESS INTENT OF THE PARTIES INVOLVED IN THIS PROJECT THAT THE CONTRACTOR OR SUBCONTRACTOR OR INDEPENDENT CONTRACTOR OR THEIR RESPECTIVE EMPLOYEES SHALL EXCULPATE THE ARCHITECT, THE ENGINEER, THE CONSTRUCTION MANAGER, THE OWNER, AND THEIR AGENTS, FROM ANY LIABILITY WHATSOEVER AND HOLD THEM HARMLESS AGAINST LOSS, DAMAGES LIABILITY OR ANY EXPENSE ARISING IN ANY MATTER FROM THE WRONGEUL OR DEGLIGENT ACT, OR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, OR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FAILURE TO CONFORM TO THE STATE SCAFFOLDING ACT IN CONNECTION WITH
- DO NOT SCALE DRAWINGS
- VERIFY ALL EQUIPMENT MOUNTING DIMENSIONS PER MANUFACTURER DRAWINGS.
- SUBMIT ONE SEPIA AND TWO PRINTS OF ALL STRUCTURAL SHOP DRAWINGS. MARKED UP SEPIA SHALL BE RETURNED

STRUCTURAL STEEL NOTES:

- CHANNELS, ANGLES AND PLATES SHALL BE ASTM A36 MATERIAL, UNLESS NOTED OTHERWISE. SQUARE AND RECTANGULAR TUBE STEEL HSS SECTIONS SHALL BE ASTM A500, GRADE B (Fy = 46 kei) MATERIAL
- ROUND PIPE SECTIONS SHALL BE ASTM A53, GRADE B (Fy =35 ksi) MATERIAL.
- DESIGN FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", WITH COMMENTARY AND THE "CODE OF STANDARD PRACTICE"
- ALL STEEL SHALL HAVE ONE COAT OF SHOP PRIMER. DO NOT PAINT AREAS WITHIN 3" OF BOLTS, WELDS OR HEADED STUDS.
- BOLTS SHALL BE HIGH STRENGTH BOLTS, A325, CONFORMING TO ASTM SPECIFICATIONS. ALL CONNECTIONS SHALL HAVE A MINIMUM OF 2 BOLTS.
- WELDING SHALL BE CONDUCTED BY CERTIFIED WELDERS AND SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION
- WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM UNLESS
- OTHERWISE NOTED WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDED PROCEDURE SPECIFICATION
- (WPS) AS PER AWS D1.1 D1.3 AND D1.4
- ONLY PRE-QUALIFIED WELDING PROCEDURES SHALL BE USED.
 UNLESS SPECIFICALLY ADDRESSED IN THE SPECIFICATIONS OR THE DETAILS, ALL STEEL ITEMS
- PERMANENTLY EXPOSED TO EARTH OR WEATHER SHALL BE CORROSION-RESISTANT BY GALVANIZING OR BY THE USE OF STAINLESS STEEL
- ALL FIELD WELDS ON GALVANIZED MATERIAL SHALL BE BRUSH-COATED WITH A ZINC-RICH PAINT.

FRP NOTES:

- NOTED.

 ALL FRP MATERIAL SHALL BE EXTREN SERIES 500 OR EQUIVALENT, PRODUCED BY THE PULTRUSION METHOD. ALL ADHESIVE RESIN SHALL BE PLEXILS METHACRYLATE OR AN EQUIVALENT ADHESIVE RESIN THAT
- ALL ADDIESTIVE RESIDENTIAL BEFELEADS MEETING TO THE STRUCTURAL SHAPES.

 ALL FRP CONNECTIONS SHALL BE FULLY-BONDED AT EACH SIDE WITH A 1/4" PLATE AND A MINIMUM
- OF (2) 3/8" DIAMETER FLATHEAD FRP SCREWS PER MEMBER

- ISOPLAST NUTS AND BOLTS SHALL BE TIGHTENED TO A SNUG-TIGHT FIT PLUS AN ADDITIONAL 1/2 TURN, PRIOR TO BEING LOCKED WITH EPOXY.
- ALL PANELS / SHEATHING SHALL BE FILLLY BONDED WITH 3/8" FLATHEAD FRP SCREWS AT 12" O.C. ALL FIELD CUT AND DRILLED EDGES, HOLES AND ABRASIONS SHALL BE SEALED WITH A CATALYZED EPOXY RESIN COMPATIBLE WITH THE MANUFACTURER'S ORIGINAL RESIN.

STANDARDS FOR ALL CONCRETE WORK

- ALL CONCRETE WORK SHALL CONFORM WITH ACI. 318 OR LATEST. DETAIL REINFORCING IN CONFORMANCE WITH ACL SP66 LATEST
- NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES WHERE PERMITTED SHALL BE A MINIMUM OF 30 BAR DIAMETERS
- PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOW ON DRAWINGS
- WIRE FABRIC REINFORCEMENT MUST LAP ONE FULL MESH AT SIDE AND END LAPS SHALL BE TIED TOGETHER
- CURE AFTER FINISHING CONCRETE. KEEP MOIST FOR 7 DAYS AFTER POURING.
 COMPACT STRUCTURAL FILL 95% PROCTOR DENSITY PRIOR TO PLACING CONCRETE UNDER SLABS.
- 1/4" CHAMFER ON ALL CORNERS AND EDGES. ALL CONCRETE SHALL BE PORTLAND, TYPE 1 CEMENT WITH A MINIMUM OF 28 DAY STRENGTH OF 3000 PSI 4" SI UMP AND A MINIMUM AIR ENTRAPMENT OF 4%
- ALL REINFORCING STEEL SHALL BE GRADE 60. ALL REINFORCING MESH SHALL CONFORM TO ASTM

ELECTRICAL NOTES

- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PREFORMED UNDER THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, AND NOT TO BE SCALED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED 3. AND SHALL BE OF THE BEST GRADE OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDER-WRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU,
- ALL CONDUIT INSTALLED SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED
- ELECTRICAL CONTRACTOR SHALL CARRY OUT HIS WORK WITH ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES AND O.S.H.A.
- ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL 5.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER THE DATE OF JOB COMPLETION. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, LIPON WRITTEN NOTIFICATION, AT THE
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE.
- 10. PROVIDE THE OWNER WITH ONE SET OF COMPLETE DIMENSIONS AND CIRCUITS. WITHIN 10 WORKING DAYS OF PROJECT COMPLETION. ELECTRICAL "AS BUILT" DRAWINGS, SHOWING ACTUAL LOCATION OF CONDUITS.
- 11. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO PROJECT MANAGER AT JOB COMPLETION.
- 12. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE. ALL CONDUCTORS SHALL BE COPPER.
- 13. THE EXTERIOR GROUND RING SHALL BE TESTED PER CCI SPECIFICATIONS AND SHALL HAVE A RESISTANCE TO EARTH OF 5 OHMS OR LESS, IF NOT NOTIFY ENGINEER
- 14. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT =CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- 15. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE
- PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE
- IN DRILLING HOLES INTO CONCRETE (WHETHER FOR FASTENING OR ANCHORING PURPOSES OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC.) IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND RE-BARS WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER: 14
- LOCATION OF TENDONS AN RE-BARS ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY, OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING STEEL TENDONS.
- PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH APPLICABLE. 16 LOCAL BUILDING CODES. USING U.L. RATED MATERIALS.

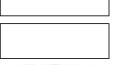
- ELECTRICAL CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOK-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS ON ALL NON-SPECIFIED ORIGINAL MATERIALS AND EQUIPMENT, TO PROJECT MANAGER PRIOR TO COMMENCEMENT OF THE WORK
- 22. UPON COMPLETION OF WORK, CONDUCT CONTINUITY AND SHORT CIRCUIT, AS WELL AS, GROUNDING TEST, GROUNDING TEST SHALL BE PREFORMED BY INDEPENDENT TESTING AGENCY WITH WRITTEN REPORT SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL
- CLEAN PREMISES DAILY OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK PREMISES IN A COMPLETE AND UNDAMAGED CONDITION
- ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WITH POLYSEAM SEALANT.
- ALL #2 TINNED BARE COPPER DOWNLEADS TO BE PROTECTED BY 1/2" P.V.C. PIPE AND SECURED.
- COMPRESSION FITTINGS TO BE LISED ON ALL CONDUITS (NO SET SCREWS).
- ALL #6 STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG ATTACHED WITH NUTS, BOLTS AND STAR WASHERS TYPICAL AND NO-OX GREASE BETWEEN LUG
- ALL ABOVE GROUND CONDUIT SHALL BE RIGID GALVANIZED CONDUIT WITH WEATHERPROOF FITTINGS.

GROUNDING

- ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, T-MOBILE GROUNDING AND BONDING STANDARDS, AND THE NATIONAL ELECTRICAL CODE
- PROVIDE ELECTRICAL GROLINDING AND RONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- GRADUAL BEND AS REQUIRED, GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES. BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN
- GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUND RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN #2 AWG COPPER. ROOFTOP GROUND RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY)
- TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING. CONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-IN-POINTS TO THE EXISTING
- ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE GROUNDING SYSTEM EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S
- ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTI Y CONCEALED
- APPLY CORROSION-RESISTANCE FINISH TO FIFE D CONNECTIONS AND PLACES WHERE FACTORY
- 9. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS
- BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.
- DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 36" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO
- 12. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT
- THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE
- DRIVE GROUND RODS LINTIL TOPS ARE A MINIMUM DISTANCE OF 36" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES
- IF COAX ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUND BAR AT THE BASE OF THE TOWER, A SECOND GROUND BAR WILL BE NEEDED AT THE END OF THE ICE BRIDGE, TO GROUND THE COAX CABLE GROUNDING KITS AND IN-LINE ARRESTORS.
- CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE









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SITE NAME: PRAIRIE VII I AGE ED TOWER

> SITE ID: A5D0310A

SITE ADDRESS: 3921 W 63RD STREET PRARIE VILLAGE KS 66208

SHEET TITLE

GENERAL NOTES

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GN1.0