

CONSTRUCTION EROSION CONTROL

An erosion control plan and a detailed description of the measure to be taken during construction to control erosion within the limits of the project, and to prevent the deposition of sediment in off-site systems or receiving water bodies, shall be submitted with final engineering construction plans of the development. Included with this submittal shall be calculations supporting the effectiveness of the proposed plans.

A. Erosion Control Plan

The erosion control plan, details and calculations shall document the measures necessary to limit the transport of sediment outside the limits of the project(s) to the volume and amount of that existing prior to the commencement of construction. This pre-construction condition shall be satisfied for the total anticipated construction period. Provision must be made to preserve the integrity and capacity of check weir, sediment basins, slope drains and grading patterns, required to meet this provision throughout the project construction life.

1. Temporary Fence

The erosion Control Plan shall include provisions for a temporary 6' foot fence suitable for mitigating wind erosion and for providing visual relief during construction. Fences shall withstand normal wind loads. The developer may in lieu of temporary fencing:

- i. Erect the required buffer yard screens as required in the landscaping plans if it meets the intent of the erosion control plan.
- ii. Disturb less than ten (10) acres and provide adequate means to control materials from leaving the construction site. Logical phasing of the disturbed areas will need to be shown on the erosion control plan if the site is larger than 10 acres.

B. Stockpiling Material

No excavated materials shall be stockpiled in such a manner as to direct runoff directly off the project site or into any adjacent water body or stormwater collection facility.

C. Exposed Area Limitation

The surface area of open, raw, erodible soil, exposed by clearing and grubbing operations, or excavation and filling operations, shall not exceed ten acres. This requirement may be waived for large projects with an approved dust control plan, which demonstrate that opening of additional areas will not significantly affect off-site deposit of sediments. This waiver will be by written authorization from the City Engineer. Any violations of the dust control plan will result in the immediate voiding of this waiver and could result in the construction activities being suspended until the site is brought back into compliance.

D. Inlet Protection

Inlets and catch basins shall be protected from sediment-laden storm runoff until the completion of all construction operations that may contribute to the inlet.

E. Temporary Seeding and Mulching

Areas opened by construction operations, that are not anticipated to be dressed and receive final grassing treatment within thirty days, shall be seeded with a quick-growing grass species which will provide an early cover during the season in which it is planted, and will not later compete with permanent grassing. The rate of seeding shall be 30 pounds per acre. Slopes steeper than 4:1 shall receive mulching of approximately 2 inches loose measure of mulch material cut into the soil of the seeded area to a depth of four inches.

F. Temporary Grassing

As required by the City of St. Cloud, the seed or seeded and mulched area shall be rolled and watered to assure optimum growing conditions, for the establishment of a good grass cover.

G. Temporary Regrassing

If, after fourteen days, the temporary grassed areas have not attained a minimum of 75% good grass cover, the area will be reworked and additional seed applied sufficiently to establish the desired vegetative cover. 75% of good stand of grass must be established within 30 days of the initial treatment or area shall be sodded.

H. Maintenance

All features of the project designed and constructed to prevent erosion and sediment, shall be maintained during the project construction life, so as to function as they were originally designed and constructed. The contractor is responsible for keeping any temporary grass in a mowed condition.

Permanent Erosion Control

The erosion control facilities of the project shall be designed to minimize the impact of off-site facilities. All stormwater discharge from the project limits shall be routed through detention basins to trap suspended sediments, and discharge facilities from these basins shall be provided with a skimming device to trap floatable debris. A copy of the site's FDEP NPDES permit shall be provided to the Public Services Department prior to a Notice to Proceed being issued.

A. Permanent Seeding

All areas which have been disturbed by construction shall, at a minimum, be fertilized and seeded in accordance with City of St. Cloud Road Construction Specification.

B. Permanent Seeding and Mulching

In addition to the minimum requirements above, slopes from 6:1 to 3:1, inclusive, will be mulched with a uniform thickness of approximately two inches, loose measure, of mulch material incorporated into the soil by mixing to a depth of four inches.

C. Permanent Sodding

All retention/detention basins shall be solid sodded. All exposed areas, including public rights-of-way, with slopes steeper than 4:1 shall be solid sodded.

D. Strip Sodding

Strip sod, 1 foot wide or greater, shall be placed adjacent to all curbs, walkways and pavement. In areas with a sidewalk, the entire area between the sidewalk and the back of curb, and/or pavement, shall be sodded.

E. Regrassing

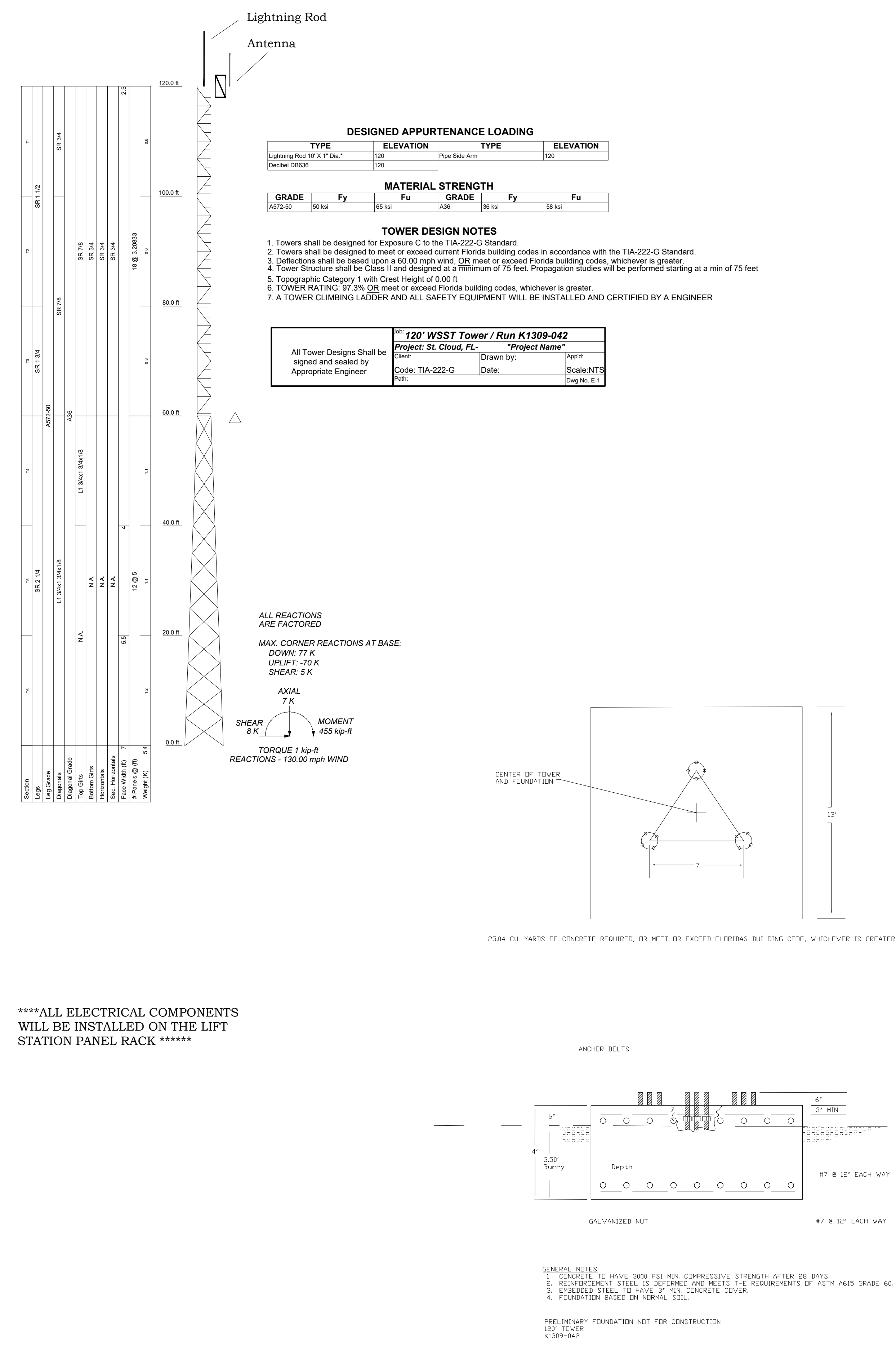
All grassed areas will be maintained to assure a good stand and sufficient ground cover to minimize erosion. If, after 60 days, an adequate ground cover has not been established, the area will be regressed.

F. Additional Fertilizer

Grassed areas, not accepted within 90 days of their completion, shall be re-fertilized at an application rate of 250 lb. per acre.

G. Maintenance

Prior to the project being accepted by the City, the contractor is responsible for mowing the grass to remain in compliance with the City Code.



FILED: SERVICES DEPARTMENT
1500 5th STREET
ST. CLOUD, FL 34769
(407) 927-7344

ALL SURVEY DATA SHOWING PHYSICAL FEATURES WERE OBTAINED BY THE ENGINEER INCIDENTAL TO DESIGN AND NO LAND SURVEYING CERTIFICATION SHOULD BE IMPLIED

NOTES:

REVISIONS	DR.	CHK.	DATE	DESCRIPTION
1	JR	KF	3/19	APPROVAL
2	JR	KF	1/19	LAYOUT REVISIONS
3	JR	KF	1/19	APPROVAL

DRAWN BY: [blank] DATE: [blank] CHECKED BY: [blank] DATE: [blank]

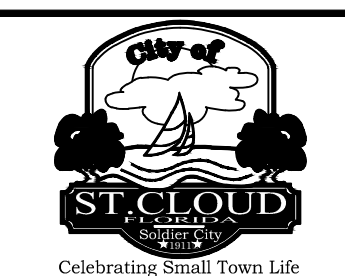
SCALE: AS SHOWN APPROVED BY: [blank] DATE: [blank]

FILENAME: WATER AND WIND EROSION NOTES / AMI TOWER AND BASE NOTES

XREF'S: [blank]

DRAWING NUMBER:
D-02-012012

SHEET 2 OF 18



02-WATER & WIND EROSION CONTROL DETAILS

AMI TOWER AND BASE DETAILS

APPROVED BY
KEVIN FELBLINGER, P.E. CFM
FL REG. No. 68532
ENGINEERING MANAGER/
CITY ENGINEER

DATE: [blank]

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