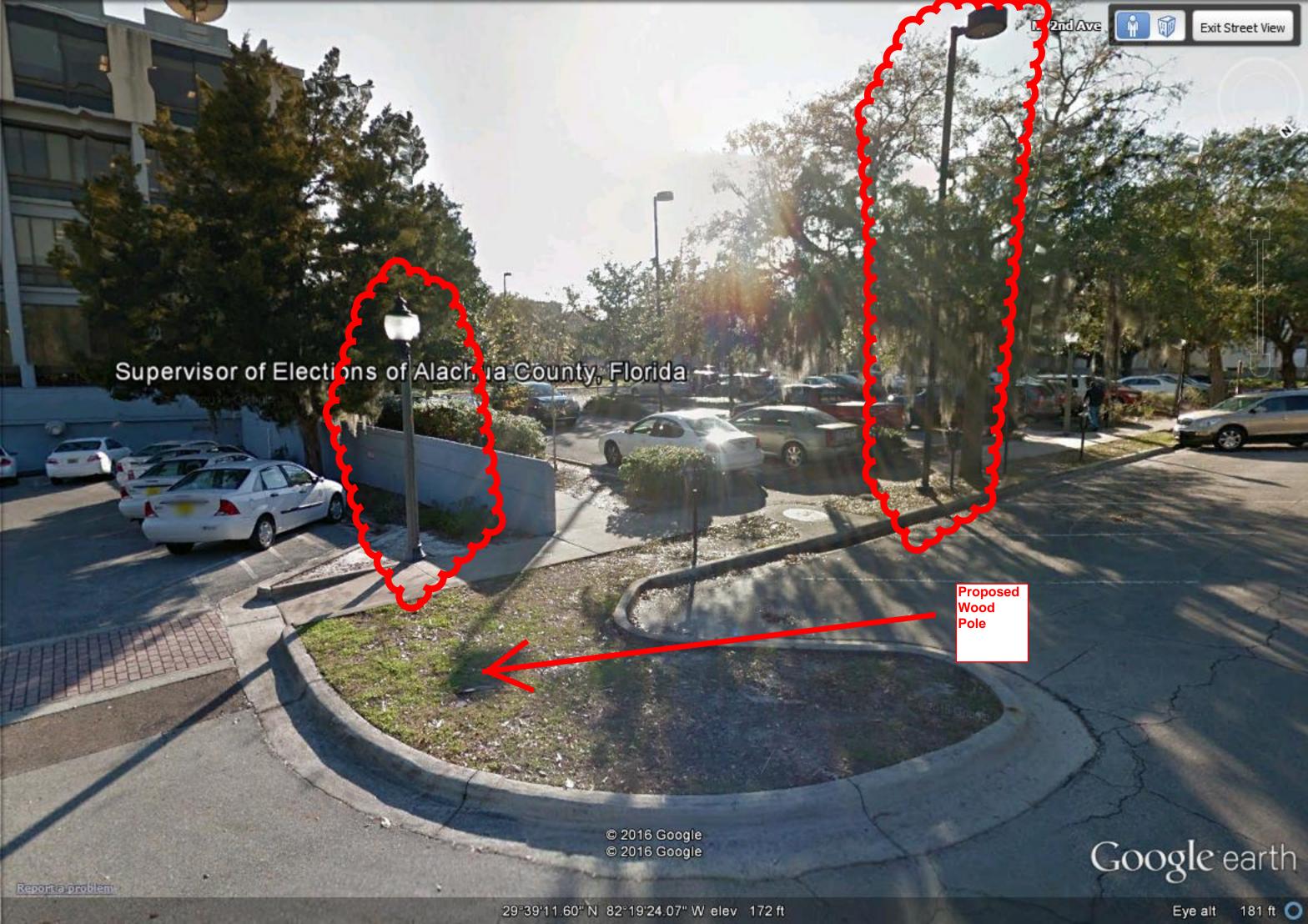
LEGISLATIVE # 160708A





SITE ID: 9FLB000066 / JA90XS014F SE 2 PL & SE 2ND ST GAINESVILLE, FL 32601



Call before you dig.

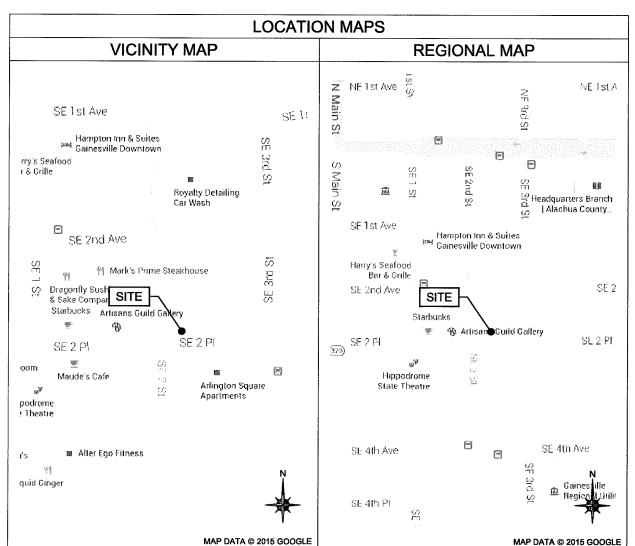
GENERAL NOTES THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

CIAL SIGNAGE IS PROFUSED.

SITE	INFORMATION
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
ADDRESS/CROSS STREET:	SE 2 PL & SE 2ND ST GAINESVILLE, FL 32601
APPLICANT:	MOBILITIE, LLC
APPLICANT ADDRESS:	3475 PIEDMONT ROAD NE,SUITE 1000 ATLANTA, GEORGIA 30305 PHONE: (312) 638-5400
LATITUDE:	N 29° 38' 58.9" (29.649705)
LONGITUDE:	W 82° 19' 22.6" (-82,322946)
LAT/LONG TYPE:	NAD 83
GROUND ELEVATION:	±170' AMSL
COUNTY:	ALACHUA COUNTY
JURISDICTION:	JACKSONVILLE

BEFORE SCALING:

CONTRACTORS SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL EQUIPMENT ON PROPOSED UTILITY POLE WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

 INSTALL PROPOSED BACKHAUL TRANSPORT ON PROPOSED UTILITY POLE

CODES

2015 INTERNATIONAL BUILDING CODE 2014 NATIONAL ELECTRICAL CODE

SHEET NO:	SHEET TITLE
0.0	TITLE SHEET
1.0	SITE PLAN & EXHIBIT PHOTO
2.0	POLE ELEVATION
2.1	POLE ELEVATION
3.0	ANTENNA & EQUIPMENT MOUNTING DETAILS
3.1	ANTENNA & EQUIPMENT SPECIFICATIONS
4.0	ELECTRICAL DETAILS
5.0	GROUNDING DETAILS
6.0	EQUIPMENT & SAFETY LABELS
6.1	TRAFFIC CONTROL PLAN
6.2	TRAFFIC CONTROL PLAN
6.3	TRAFFIC CONTROL PLAN
GN-1	GENERAL NOTES
GN-2	GENERAL NOTES

ARCHITECT/ENGINEER

KMB DESIGN GROUP, LLC
1800 ROUTE 34, SUITE 209
WALL, NJ 07719
FOR QUESTIONS EMAIL: designteam@kmbdg.com
TEL: (732) 280-5623
FAX: (732) 280-3980
www.KMBDG.com

mobilitie

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KMB DESIGN GROUP, LLC

Stephen A. Bray

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SE 2 PL & SE 2ND ST GAINESVILLE, FL 32601

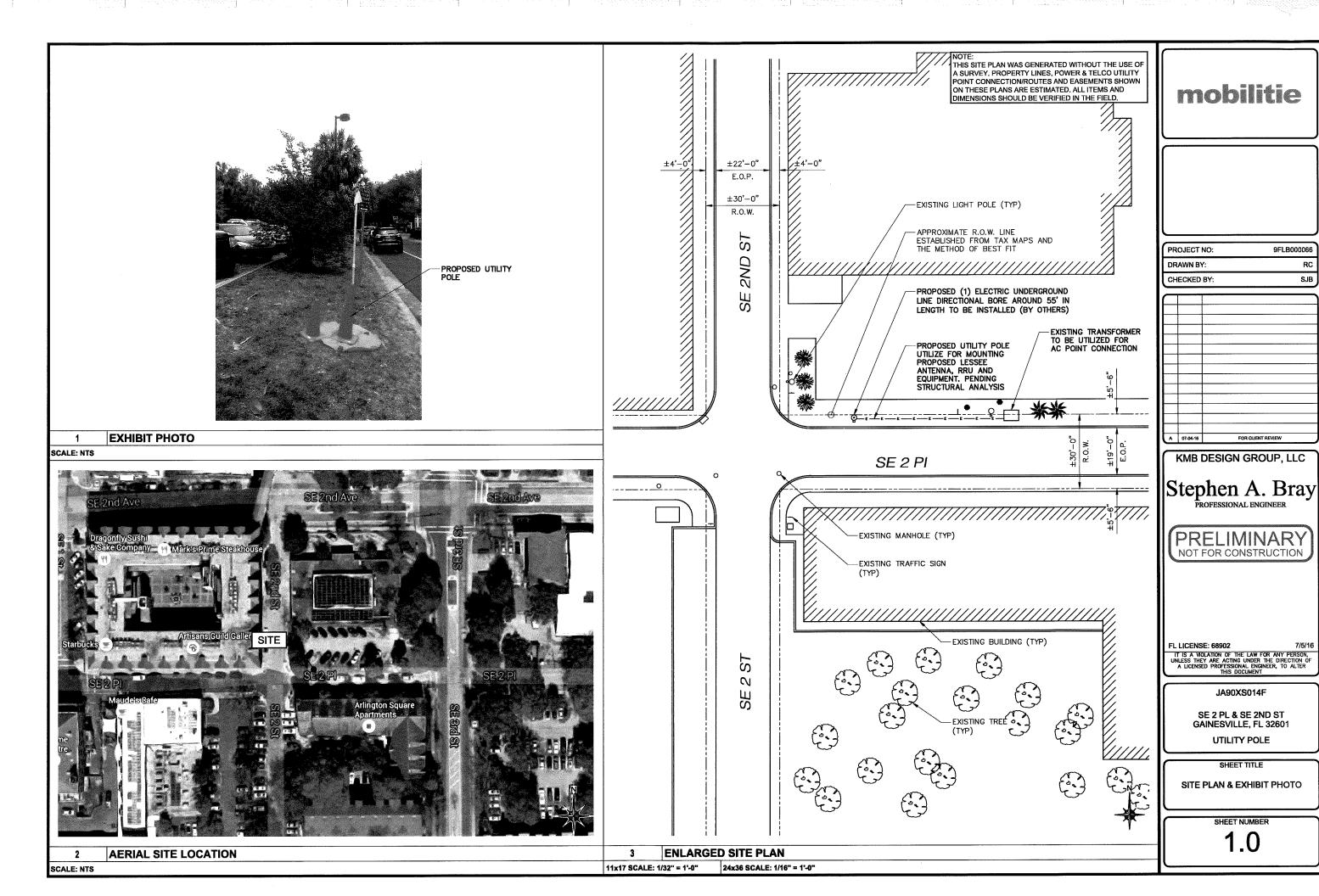
UTILITY POLE

SHEET TITLE

TITLE SHEET

SHEET NUMBER

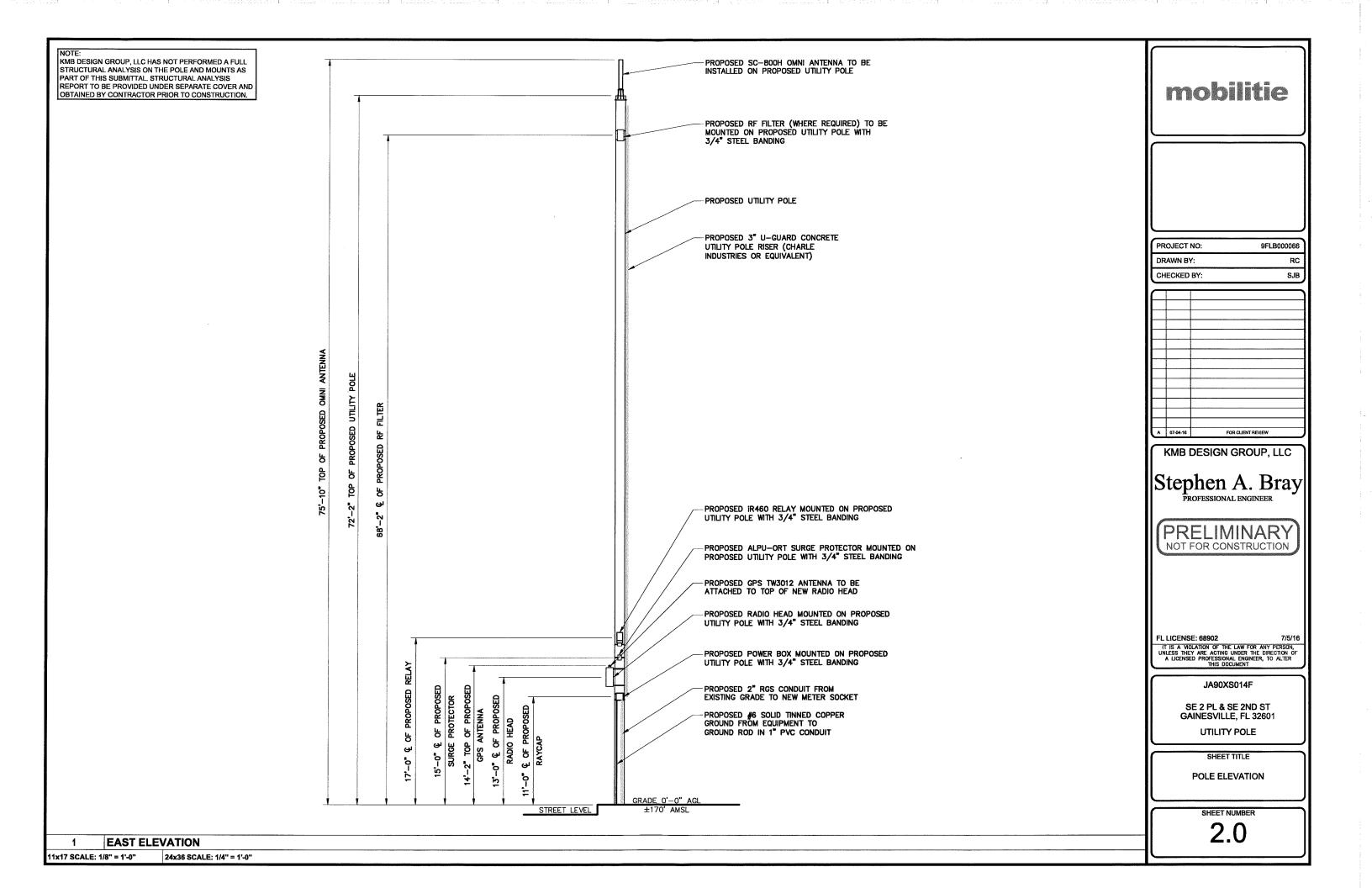
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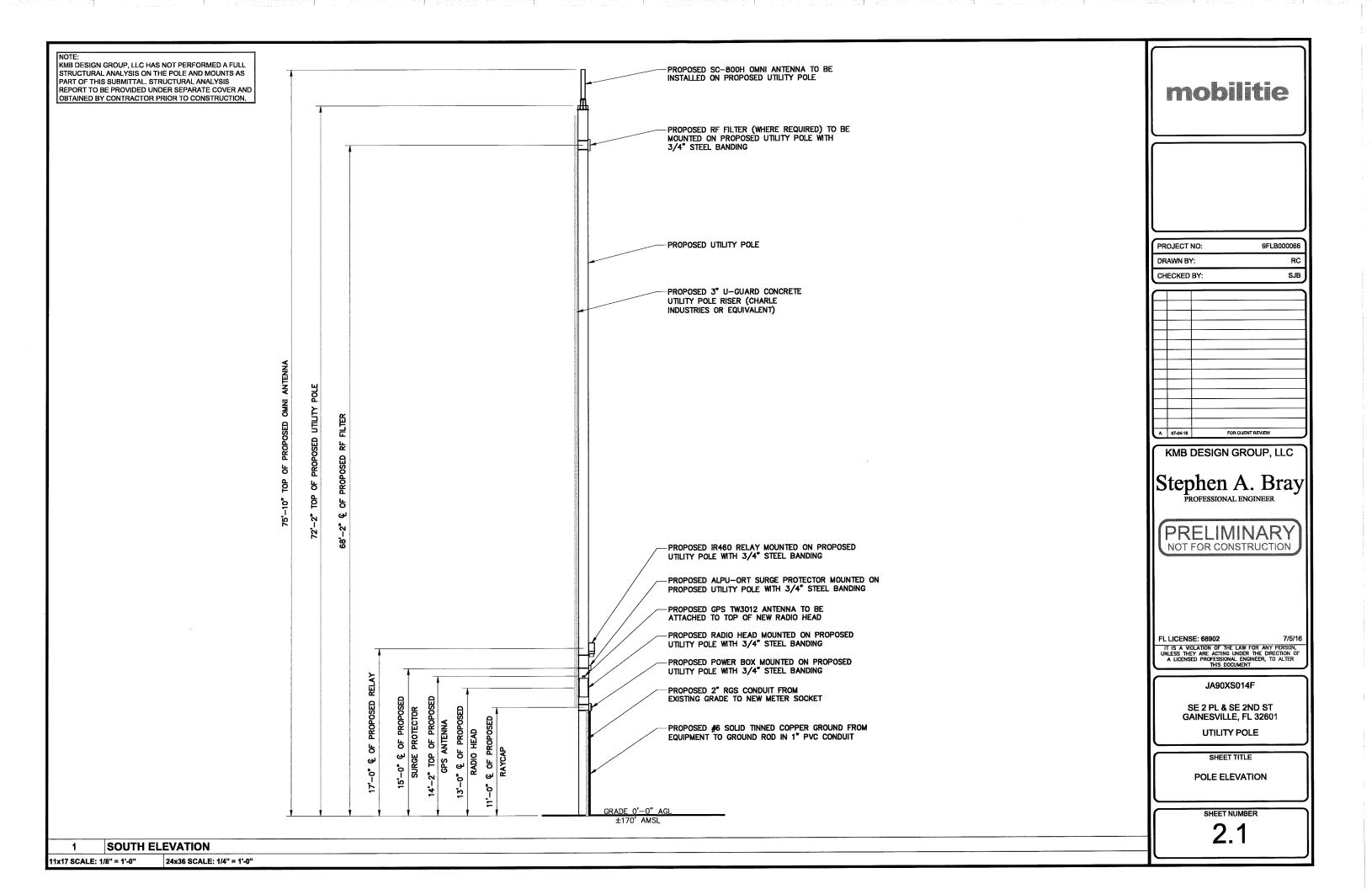


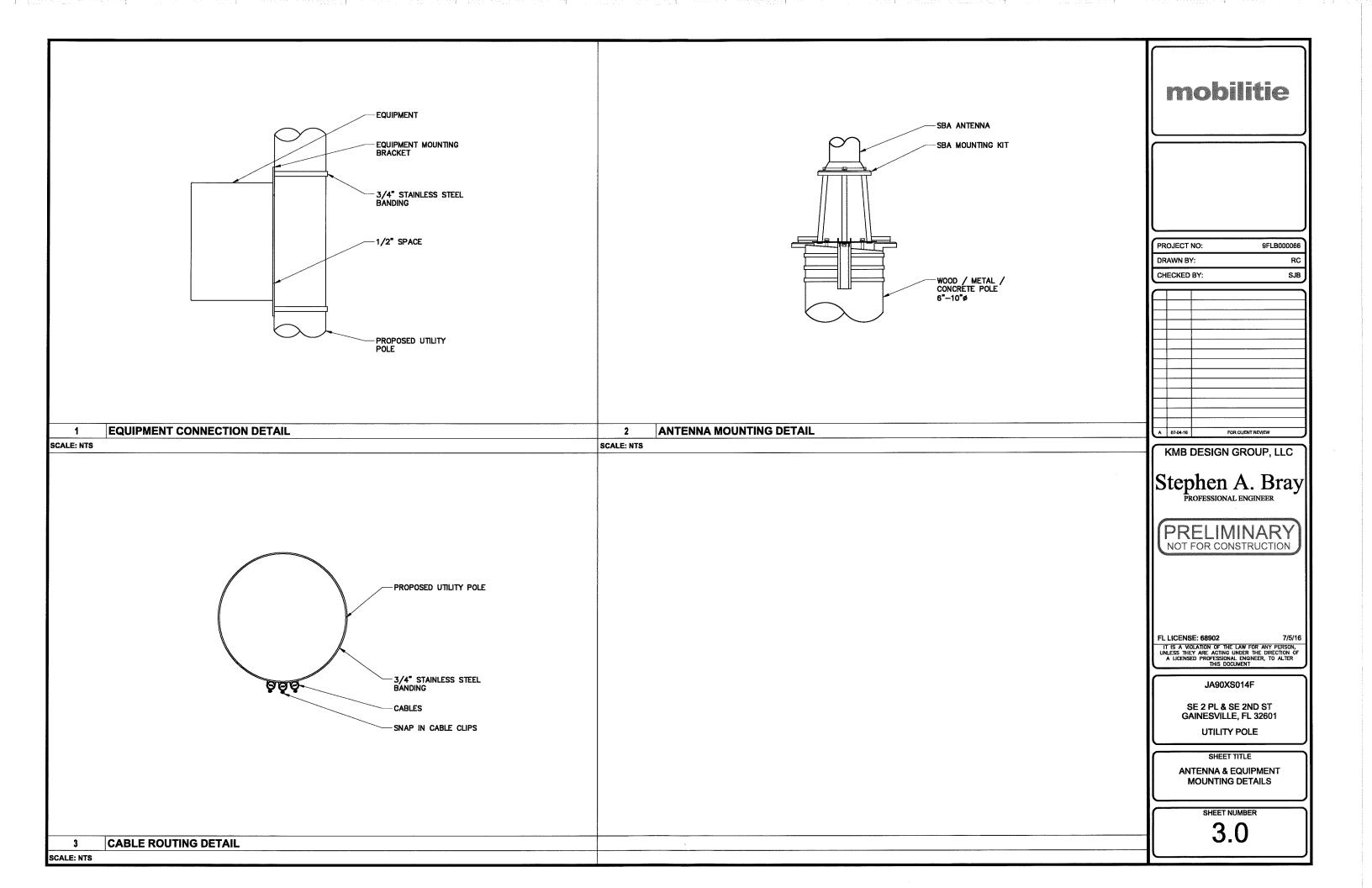
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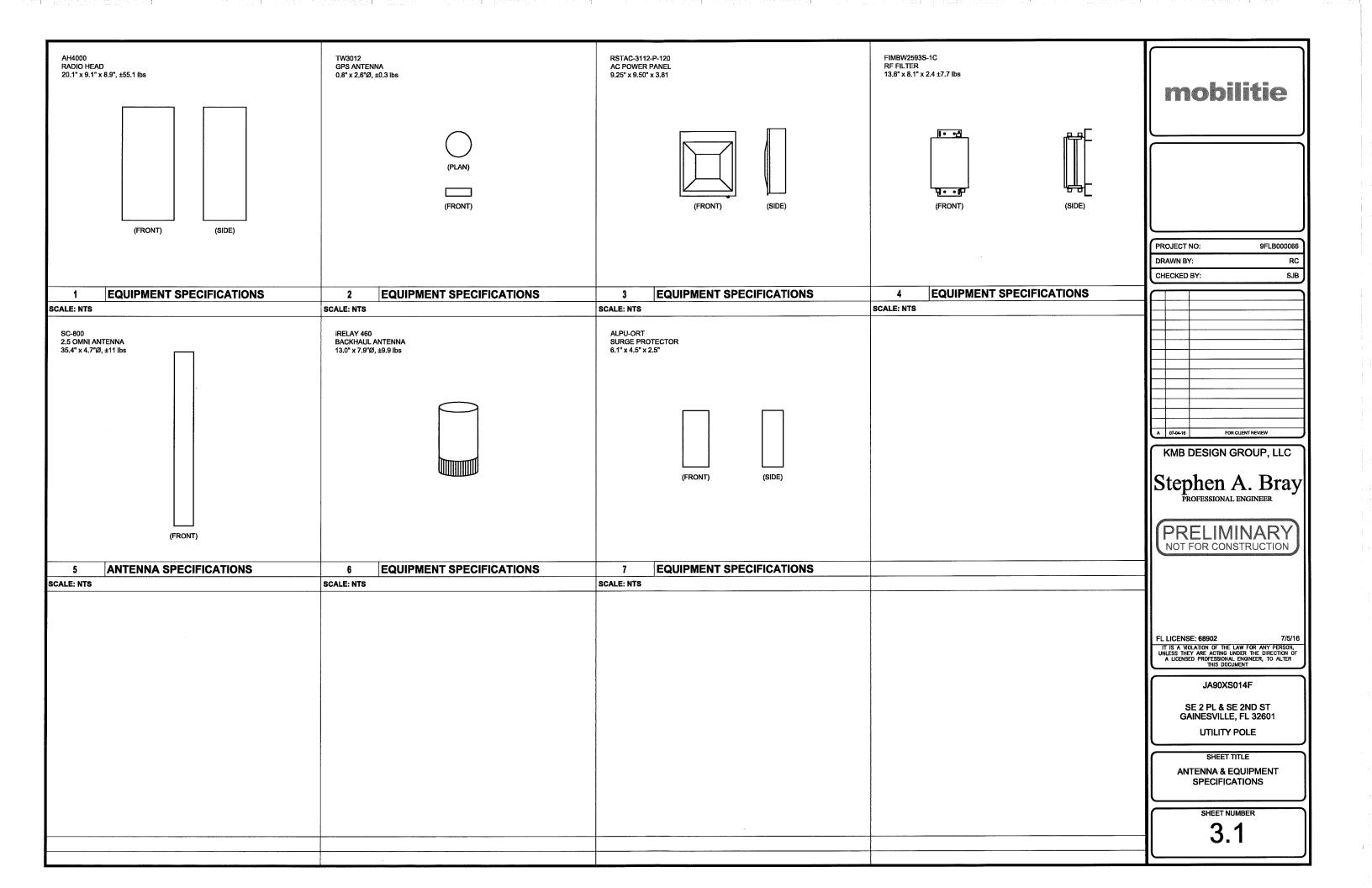
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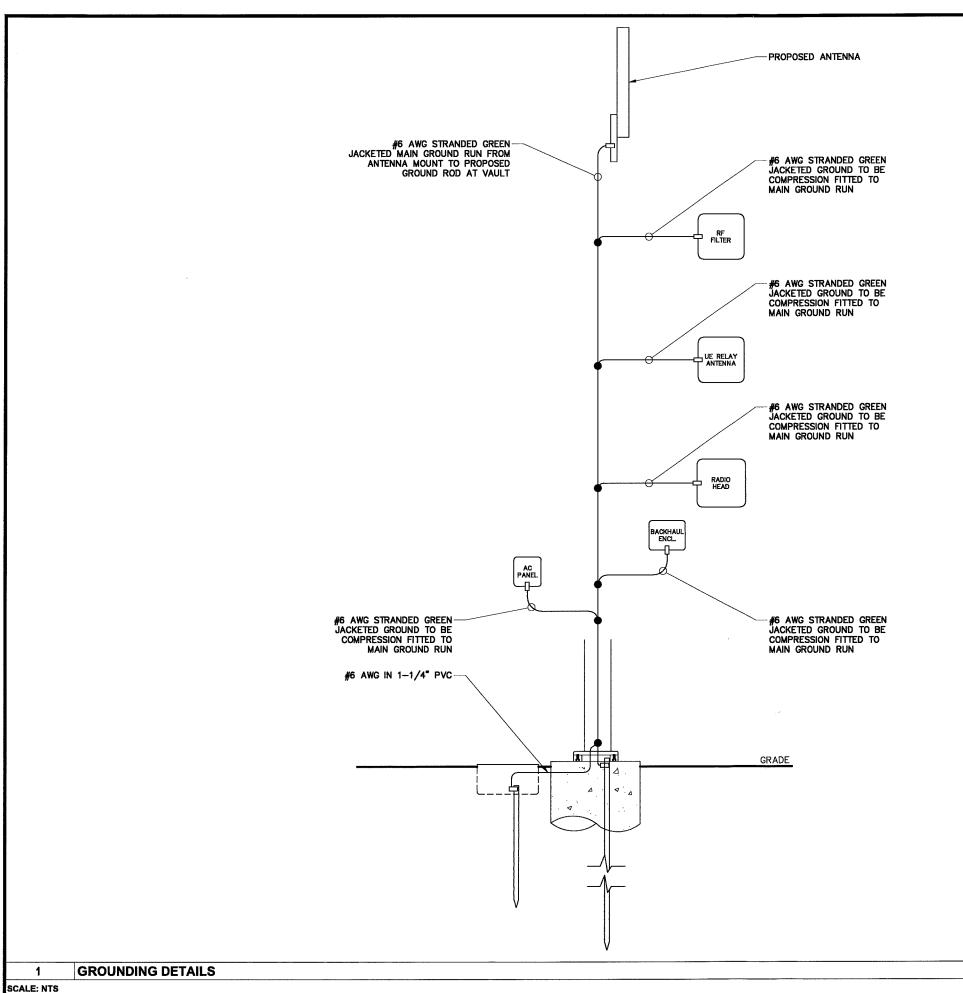








JTILITY NOTES NOTE: CABLING DIAGRAM IS FOR CLARITY OF **LEGEND** WORK INCLUDES: THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL CABLE ROUTE AND TERMINATION ONLY. CONTRACTOR SHALL INSTALL CABLES WITH COAX CABLES mobilitie LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS UTILITY SITE AND MINIMAL VISUAL IMPACT ON PROPOSED SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: UTILITY POLE. SEE ELEVATION DRAWING FOR ETHERNET CABLES . THE PROVISIONS, INSTALLATION AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH SECONDARY GROUNDING, AND EQUIPMENT AND ANTENNA LOCATIONS. CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT. POWER CABLES . THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS. 5. THE PROVISION AND INSTALLATION OF CONDUIT AND CONNECTIONS FOR LOCAL FIBER SERVICE. 1. THE FURNISHING AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUCTORS, CONDUITS, METER SOCKET, AND CONNECTIONS PROPOSED ANTENNA TO THE SERVICE EQUIPMENT. 6. ALL CONDUITS SHOULD BE LEFT WITH NYLON PULL CORD FOR FUTURE USE. 6. EXCAVATION, TRENCHING, AND BACKFILLING FOR CONDUIT(S), CABLE(S) AND EXTERNAL GROUNDING SYSTEM. PROPOSED (2) 1/2" COAX JUMPERS. DRIP LOOP NOT TO CODES, PERMITS AND FEES: 1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY CONTRACTOR. 2. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES: STATE, LOCAL AND NATIONAL AND THE DESIGN, PERFORMANCE EXCEED RATED BENDING RADIUS OF CABLE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING AUTHORITIES: NATIONAL ELECTRICAL CODE AMERICAN NATIONAL STANDARDS INSTITUTE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS PROJECT NO: 9FI B00006 PROPOSED RF FILTER AMERICAN SOCIETY FOR TESTING MATERIALS (WHERE REQUIRED) N.E.M.A. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION DRAWN BY RC UNDERWRITERS LABORATORIES, INC. SJB CHECKED BY RACEWAYS AND WIRING: . WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ARCHITECT/ENGINEER. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THWN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL 5. RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION. PROPOSED UE RELAY PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WRING. PROVIDE **ANTENNA** JUNCTION AND PULLBOXES FOR CONDUIT RUNS WITH MORE THAN (360) DEGREES OF BENDS. 5. PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES. PROPOSED CAT 5 3. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING. ETHERNET CABLE SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL, AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO ARCHITECT/ENGINEER BEFORE SUBMITTING BID. ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN PROPOSED RRU ACCORDANCE WITH MANUFACTURER'S WIRE DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL KMB DESIGN GROUP, LLC CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS. COORDINATION WITH UTILITY COMPANY: THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR A COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCKETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC. PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY OPTIONAL OR EXCESS FACILITY CHARGES ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY, VERIFY BEFORE BIDING TO INCLUDE ALL COSTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE Stephen A. Bray PROPOSED UTILITY POLE PROFESSIONAL ENGINEER PROPOSED 3" U-GUARD AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVER CURRENT **PRELIMINARY** UTILITY POLE RISER (CHARLE PROTECTION DEVICES IN DISTRIBUTION EQUIPMENT AS REQUIRED TO COORDINATE WITH AVAILABLE FAULT CURRENT FROM LOCAL UTILITY INDUSTRIES OR EQUIVALENT) COMPANY. NOT FOR CONSTRUCTION NOTES PROPOSED AC DISTRIBUTION BOX PROPOSED POWER CABLE-DIN MOUNT SURGE MOUNTED TO UTILITY POLE IN PROTECTION DEVICE SPACE FOR FUTURE CIRCUIT SCH 40 PVC, PER THE UTILITY BREAKER EXPANSION REQUIREMENTS PROPOSED DISCONNECT SWITCH FL LICENSE: 68902 IT IS A WOLATION OF THE LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT PROPOSED METER SOCKET PROPOSED 2" RGS CONDUIT FROM EXISTING GRADE TO NEW JA90XS014F METER SOCKET 0000 $|\circ|\circ|\circ|_{\mathscr{O}}$ SE 2 PL & SE 2ND ST PROPOSED 1" SCH 40 PVC GAINESVILLE, FL 32601 -20 AMP CIRCUIT GROUNDING CONDUIT BREAKER UTILITY POLE PROPOSED 2"# SCH BO PVC -5 AMP CIRCUIT BREAKER CONDUIT FROM POWER POC TO GRADE LINE SHEET TITLE ISOLATED NEUTRAL BUSBAR **ELECTRICAL DETAILS** GROUND BUSBAR PROPOSED QUAZITE L2 CONNECTION TERMINAL **ENCLOSURE** NEUTRAL/GROUND BONDING STRIP L1 CONNECTION TERMINAL SHEET NUMBER CABLE DIAGRAM **AC DISTRIBUTION PANEL** 3 SCALE: NTS SCALE: NTS



mobilitie

PROJECT NO: 9FLB000066 DRAWN BY: RC SJB CHECKED BY:

FOR CLIENT REVIEW

■ CADWELD CONNECTION □ MECHANICAL CONNECTION COMPRESSION CONNECTION

NOTE: GROUNDING RISER FOR DIAGRAMMATIC PURPOSES ONLY. SEE ELEVATION DRAWING FOR EQUIPMENT AND ANTENNA LOCATIONS.

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Stephen A. Bray

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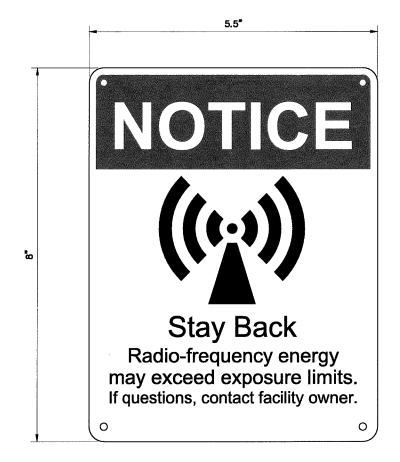
UTILITY POLE

SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

5.0



ANTENNA SIGNAGE:
ON WOOD POLES - SIGN ON ALUMINUM WITH SS SCREW TO THE POLE
ON METAL POLES - ADHESIVE VINYL OR PLACARD STRAPPED WITH SS TIES ON CONCRETE / COMPOSITE - PLACARD STRAPPED WITH SS TIES

SCALE: NTS

SIGN PLACEMENT:
AFFIX TO THE STRUCTURE 3-4' BELOW THE COMMERCIAL RF ANTENNA(S)

RF NOTICE SIGN DETAIL

RF / POWER DISCONNECT INSIDE

NOTE:
RF/POWER DISCONNECT SIGN TO BE PLACED ON OUTSIDE DOOR OF AC DISTRIBUTION BOX.

RF/POWER DISCONNECT SIGN

SCALE: NTS

INTERSTATE TRANSPORT AND BROADBAND

In case of emergency contact: EMAIL: NOC@ITBUTILITY.COM

PHONE: (877) 244 - 7889

SITE ID: 9FLB000066

OWNER / OPERATOR NOTE:
SITE ID LABEL TO BE AFFIXED WITH TZeS241 LABELING TAPE OR EQUIVALENT BLACK ON WHITE LABELING TAPE OF AT LEAST 18mm WIDTH WITH EXTRA-STRENGTH ADHESIVE. USE ANY COMPATIBLE P-TOUCH LABEL MAKER. TEXT SHOULD BE PRINTED IN ALL CAPS WITH A MINIMUM HEIGHT OF 1/2".

POLE OWNER SIGN DETAIL

SCALE: NTS

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9FLB000066 PROJECT NO: RC DRAWN BY CHECKED BY: SJB

KMB DESIGN GROUP, LLC

Stephen A. Bray PROFESSIONAL ENGINEER

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SE 2 PL & SE 2ND ST GAINESVILLE, FL 32601

UTILITY POLE

EQUIPMENT & SAFETY LABELS

6.0

TRAFFIC CONTROL NOTES

- Prior to any road construction, traffic control signs and devices shall be in place.
- Traffic control devices for lane closures including signs, cones, barricades, etc. shall be placed as shown on plans. Signs shall not be placed without actual lane closures and shall be immediately removed upon removal of the closures.
- Fencing & gates subject to adjustments during construction.
- ction, placement, maintenance, and protection of traffic shall be in accordance with the Manual of Uniform Traffic Control Devices - Part VI "Standards and Guides for Traffic Control for Street and Highway Construction, Maintenance, Utility, and Incident Management Operations", and the State Department of Transportation Standards and Specifications, unless otherwise noted in the plans and specifications, and shall be approved by the appropriate highway authority having jurisdiction.
- Tapers shall be located to maximize the visibility of their total length.
- Advance warning signs, distances, and taper lengths may be extended, at direction of the Engineer, to adjust or reduced visibility due to horizontal and vertical curvature of the roadway.
- All existing road signs, pavement markings and/or plowable pavement reflectors which conflict with the proposed traffic control plan shall be covered, removed, or relocated as directed by the Engineer and then restore to match pre-construction conditions.
- Conflicting or non-operating signal indications on either the existing, temporary, or proposed traffic signal
- Contractor shall contact local applicable highway jurisdiction and provide additional "flagmen" or police supervision as they deem appropriate.

- 10. All excavated areas within or adjacent to the madway shall be backfilled and placed on a minimum 6h:1y slow prior to the end of each work day. Other excavated areas within the clear zone are to be either backfilled or precast concrete curb construction barrier set temporarily in place to shield vehicular and pedestrian traffic.
- 11. Where required, the contractor shall make provisions for maintaining pedestrian crossing (ocations and type, in accordance with all applicable codes and osha requirements.
- 12. Construction zone speed limit will be determined by the regional traffic engineer at the time of or during
- Bituminous concrete placed during the various construction stages shall be transitioned on a minimum 20h:1v slope to meet the adjacent existing grade at the longitudinal and transverse limits of the stage construction areas unless otherwise noted on the stage construction plans.
- 14. All excavated areas within or adjacent to the roadway shall be backfilled and placed on at least 6h:1v slope before the end of each work day. Other excavated area within the clear zone shall be backfilled.
- 15. Cones may be substituted for drums and installed upon the approval of the Engineer
- 16. There shall be no workers, equipment, or other vehicles in the buffer space or the roll ahead space.
- 17. Driveways and/or side streets entering the roadway after the first advance warning sign shall be provided with at least one WZO-IF sign (road work ahead) as a minimum,
- 18. Moving work areas in a lane closure require a trailer mounted illuminated flashing arrow to remain at the end of the taper, the traffic control truck with mounted crash cushion that shall move with the work areas to keep a 70

TRAFFIC CONTROL NOTES

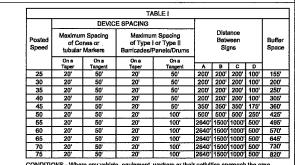
SCALE: NTS

SYMBOLS

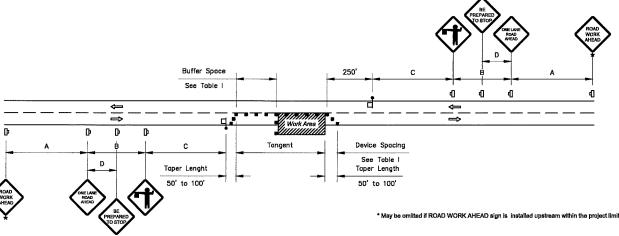
Work Area

- Channelizing D
- Work Zone Sign
- TT* Flagger
- Automated Flagger As (AFAD), With Gate
- ⇒ Lane Identification + Direction of Traffic

For single lane traffic flow see General Note 12



CONDITIONS - Where any vehicle, equipment, workers or their activities encroach the area between the centerline and a line 2' outside the edge of travel way.



GENERAL LAYOUT

- Special Conditions may be required in accordance with these notes and the following sheets
- If the Work Area encroaches on the Centerline, use the Layout for Temporary Lane Shift to Shoulder on Sheet 2 only if the Existing Paved Shoulder width is sufficient to provide for an 11' lane between the Work Area and the Edge of Existing Paved Shoulder. Reduce the posted speed when app

- Temporary Raised Rumble Strips:
 a. Use when both of the following conditions are met concurrently:
 i. Existing Posted Speed is 50 mph or greater;
 ii. Work duration is greater than 60 minutes.
 b. Use a consistent Strip color throughout the work zone.
 c. Place each Rumble Strip Set transversely across the lane at locations shown.
 d. Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.
- Additional one-way control may be provided by the following means
- a. Flag-carrying vehicle;
 b. Official vehicle;

SCALE: NTS

When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times,

- When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable MUTCD guidelines.
- The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.

TWO LANE, TWO WAY, WORK WITHIN THE TRAVEL WAY

- 7. When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft.
- 8. Railroad Crossings
- If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
- the burier space as known on sheet z.

 If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.
- 9. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions

- ROAD WORK AFLEAU and use be incervated are met:

 a. Work operations are 60 minutes or less.

 b. Speed limit is 45 mph or less.

 c. There are no sight obstructions to vehicles approaching the work area for a distance equal to the Buffer Space shown in Table 1.

 d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

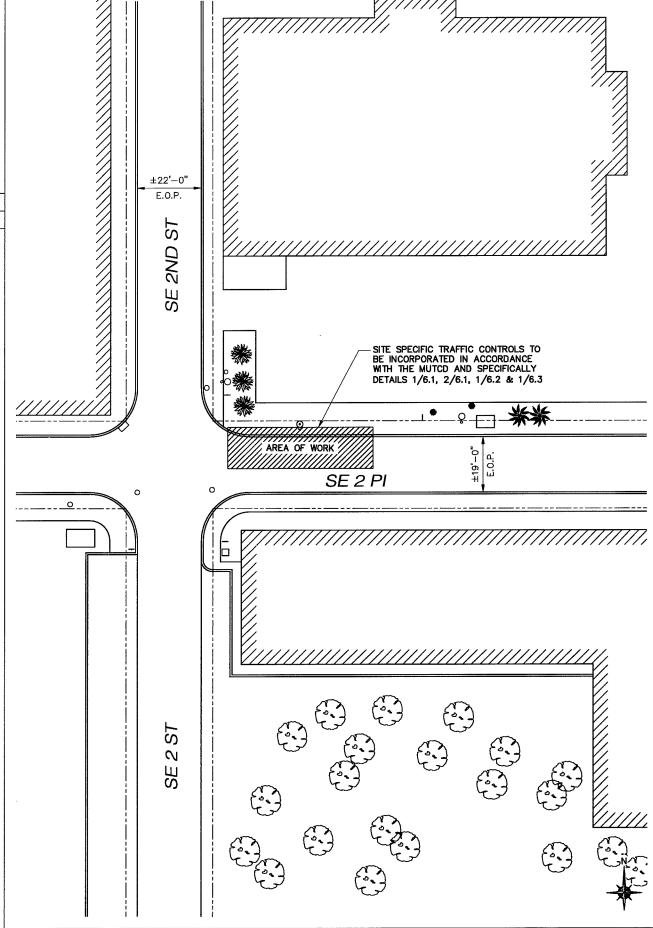
 e. Volume and complexity of the roadway has been considered.

 f. If a rallroad crossing is present, vehicles will not queue across rall tracks.

 g. AFADs are not in use.

10. For general TCZ requirements and additional information, refer to MUTCD.

12. For single lane traffic flow, the contractor shall utilize the general layout detailed above and shall comply with the local highway authority having jurisdiction to ensure that sufficient clearance is provided to allow vehicles to pass safely. Contractor shall notify the Engineer if a road closure is deemed nece



SITE SPECIFIC TRAFFIC CONTROL PLAN

24x36 SCALE: 1/16" = 1'-0"

11x17 SCALE: 1/32" = 1'-0"

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FOR CLIENT REVIEW

KMB DESIGN GROUP, LLC

|Stephen A. Bray|

PROFESSIONAL ENGINEER

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SE 2 PL & SE 2ND ST **GAINESVILLE, FL 32601**

UTILITY POLE

SHEET TITLE TRAFFIC CONTROL PLAN

SHEET NUMBER

6.1

FL LICENSE: 68902

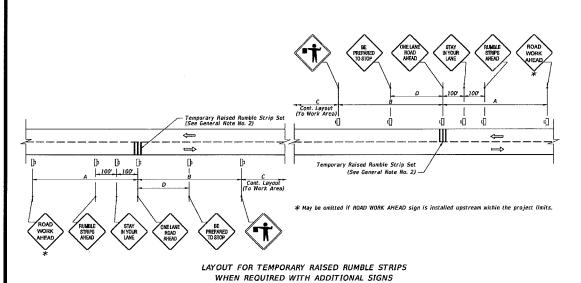
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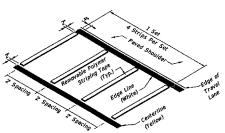
SJB

PROJECT NO:

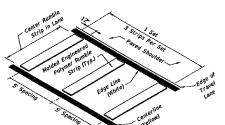
CHECKED BY:

DRAWN BY:





OPTION 1 - REMOVABLE POLYMER STRIPING TAPE RUMBLE STRIP SET

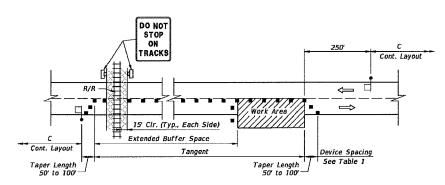


OPTION 2 - MOLDED ENGINEERED POLYMER RUMBLE STRIP SET

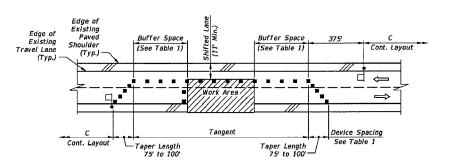
TEMPORARY RAISED RUMBLE STRIPS

TEMPORARY RAISED RUMBLE STRIPS

SCALE: NTS

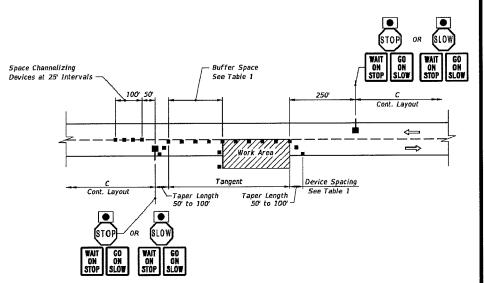


LAYOUT FOR RAILROAD CROSSING **BUFFER SPACE EXTENSION**

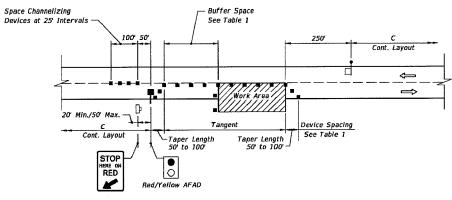


LAYOUT FOR TEMPORARY LANE SHIFT TO SHOULDER WHEN WORK AREA ENCROACHES ON THE CENTERLINE

SPECIAL CONDITIONS



LAYOUT FOR STOP/SLOW AFAD METHOD 1 - 2 AFAD's



LAYOUT FOR RED/YELLOW AFAD METHOD 2 - 1 AFAD & FLAGGER

AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADs)

AUTOMATED FLAGGER ASSISTANCE DEVICES NOTES

- 1.Illuminate the flagging station when the AFAD is used at nighttime.
- 2.When the AFAD is not in use, remove or cover signs and move AFAD device outside the clear zone or shield it with a barrier or
- 3. Only qualified flaggers who have been trained in the operation of the AFAD may operate the AFAD. When in use, each AFAD must be in view of and attended at all times by the flagger operating the device. Use two flaggers and one of the following methods in the deployment of AFAD's:

Method 1:Place an AFAD at each end of the temporary traffic control zone. Method 2:Place an AFAD at one end of the temporary traffic control zone and a flagger at the opposite end.

- 4. A single flagger may simultaneously operate two AFAD's (Method 1) or may operate a single AFAD on one end of the temporary traffic control zone while being the flagger at the opposite end of the temporary traffic control zone (Method 2) if all four of the following conditions are present:

 - a. The flagger has an unobstructed view of the AFAD(s);
 b. The flagger has an unobstructed view of approaching traffic in both directions;
 c. For Method 1, the AFAD's are less than 800 ft apart. For Method 2, the AFAD and the flagger are less than 800 ft apart.

AUTOMATED FLAGGER ASSISTANCE DEVICES (AFADs)

d. Two trained flaggers are available on-site to provide normal flagging operations should an AFAD malfunction.

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PRO	JECT	NO:	9FLB000066

KMB DESIGN GROUP, LLC

|Stephen A. Bray

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JA90XS014F

SE 2 PL & SE 2ND ST GAINESVILLE, FL 32601

UTILITY POLE

SHEET TITLE

TRAFFIC CONTROL PLAN

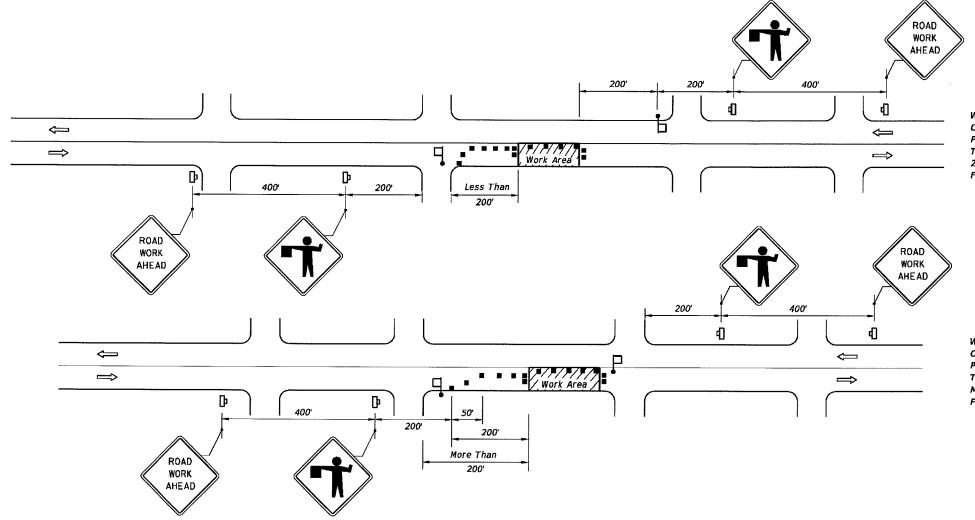
SHEET NUMBER

6.2

SPECIAL CONDITIONS

SCALE: NTS

3 SCALE: NTS



CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS LESS THAN 200' DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS 200' OR MORE DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

GENERAL NOTES

SYMBOLS

Work Area

Channelizing Device

Work Zone Sign

Flagger

Lane Identification + Direction of Traffic

- 1. Work operations shall be confined to one travel lane, leaving the opposing travel 6. The maximum spacing between devices shall be no greater than 25.' lane open to traffic.
- 2. When vehicles in a parking zone block the line of sight to TCZ signs or when TCZ signs encroach on a normal pedestrian walkway, the signs shall be post mounted and located in accordance with MUTCD.
- 3.If work area is confined to an outside auxiliary lane, the work area shall be barricaded and the FLAGGER signs replaced by ROAD WORK AHEAD signs. Flaggers are not required.
- 4.Flaggers shall be in sight of each other or in direct communication at all times.
- 5. The FLAGGER legend sign may be substituted for the symbol sign.

- 7.For general TCZ requirements and additional information, refer to MUTC
- 8. The two channelizing devices directly in front and directly at the end of the area may be omitted provided vehicles in the work area have high-intensit flashing, oscillating, or strobe lights operating.
- 9. Use Temporary Raised Rumble Strips in accordance with Index 603. Pla of Rumble Strips and additional signs should begin at FLAGGER sign loca

- 1. ROAD WORK AHEAD sign may be omitted if all of the following conditions are met:
 - a. Work operations are 60 minutes or less.
 - b.Speed is 45 mph or less.
 - c. No sight obstructions to vehicles approaching the work area for a distance of 600 feet.

DURATION NOTES

- d. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- e. Volume and complexity of the roadway has been considered.

mobilitie

PROJECT NO: 9FLB000066 DRAWN BY: RC CHECKED BY: SJB

KMB DESIGN GROUP, LLC

FOR CLIENT REVIEW

Stephen A. Bray

PRELIMINARY NOT FOR CONSTRUCTION

FL LICENSE: 68902

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JA90XS014F

SE 2 PL & SE 2ND ST GAINESVILLE, FL 32601

UTILITY POLE

SHEET TITLE

TRAFFIC CONTROL PLAN

SHEET NUMBER

6.3

TWO LANE, TWO WAY, WORK NEAR INTERSECTION

SCALE: NTS

GENERAL

THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

GENERAL REQUIREMENTS

PART 1 - GENERAL

- OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES; INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES AND SIMILAR RELEASES.
- SUBMIT RECORD DRAWNOS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.

 COMPLETE FINAL CLEAN UP REQUIREMENT, INCLUDING TOUCH—UP PAINTING. TOUCH UP
- AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES.

PART 2 - FINAL CLEANING

- COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION
- FOR CERTIFICATION ON COMPLETION.

 A. CLEAN THE PROJECT SITE, YARD AND GROUNDS IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREA, OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO—CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED, TO A SMOOTH EVEN—TEXTURED SURFACE.
 - REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE.
 - REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
 - CLEAN EXPOSED EXTERIOR HARD SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES.
 - AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES. REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING HANDHOLES, MANHOLES, AND SIMILAR SPACES.
 - REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
 - TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CANNOT BE SATISFACTORILY REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS. NCLUDING ELECTRICAL NAME PLATES.
- LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
- I. DUST OFF ALL EQUIPMENT AND ITEMS WITHIN EQUIPMENT ENCLOSURE.
 REMOVAL OF PROTECTION: REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.

SITE WORK

PART 1 - GENERAL

- WORK INCLUDED: SEE SITE PLAN.
 DESCRIPTIONS: IF APPLICABLE, LEASE AREA, AND UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR USE AND ACCESS.
- QUALITY ASSURANCE
 - APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S

 - RECOMMENDATIONS (AS NEEDED).
 APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED).
 - PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
- SEQUENCING CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY
 - CONSTRUCTION. CONSTRUCT TEMPORARY CONSTRUCTION AREA, DESIGNATED AREA TO BE APPROVED BY CONSTRUCTION MANAGER AND LOCAL AUTHORITIES.
 - APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS. GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY
 - CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA TO BASE COURSE ELEVATION, WATER TO
 - AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO STONE

5. SUBMITTALS

- BEFORE CONSTRUCTION: IF LANDSCAPING IS APPLICABLE TO THE CONTRACT. SUBMIT TWO COPIES OF THE LANDSCAPE PLAN ON NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD
- AFTER CONSTRUCTION
 - MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL STERILIZER.
 - MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER.
 - LANDSCAPING WARRANTY STATEMENT

1. WARRANTY

- A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND RESTORE AREA AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SURROUNDINGS.
- SOIL STERILIZATION APPLICATION TO GUARANTEE VEGETATION FREE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

 DISTURBED AREA WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO
- FINAL INSPECTION.

 LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

PART 2 - PRODUCTS

1. MATERIALS

A. SOIL STERILIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:

PRODUCT 910 EPA 10292-7 (313) 563-8000

PHASAR CORPORATION P.O. BOX 5123 DEARBORN, MI 48128

AMBUSH HERBICIDE EPA REGISTERED

FRAMAR INDUSTRIAL PRODUCTS 1435 MORRIS AVE. UNION, NJ 07083

(800) 526-4924

- B. ROAD AND SITE MATERIALS SHALL CONFORM TO STATE AND LOCAL DOT SPECIFICATIONS FILL MATERIAL (UNLESS OTHERWISE NOTED) - ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF HIGHWAY AND TRANSPORTATION STANDARD SPECIFICATIONS.
- C. SOIL STABILIZER FABRIC SHALL BE MIRAFI 500X.

PART 3 - EXECUTION

- 1. INSPECTIONS: LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION
- - CLEAR BRUSH AND DEBRIS FROM LEASE AREA AND UNDERGROUND UTILITY
 EASEMENTS AS REQUIRED FOR CONSTRUCTION.
 UNLESS OTHERWISE INSTRUCTED BY LESSEE, TRANSPORT ALL REMOVED
 - TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED
 - PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL.
 WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.
- 3. INSTALLATION
 - CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND <u>DO NOT</u> SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY PROJECT MANAGER AND AGREED TO BY LANDOWNER.
 - PLACE FILL OR STONE IN SIX INCH (6") MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
 - APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAPPED. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL
 - ENCOURAGE ROOTING. RAKE AREAS TO BE SEEDED TO EVEN THE SURFACE AND LOOSEN THE SOIL.
 - SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
- ENSURE GROWTH OF SEEDED AND LANDSCAPED AREA, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.

 4. FIELD QUALITY CONTROL: COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH
- ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.
- 5. PROTECTION
 - PROTECT SEEDED AREAS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1-2 INCHES, STAKE AND TIE DOWN AS REQUIRED.
 USE OF EROSION CONTROL MESH OR MULCH NET WILL BE AN ACCEPTABLE ALTERNATE.
 - PROTECT ALL EXPOSED AREAS AGAINST WASHOUTS AND SOIL EROSION.
 PLACE STRAW BALES AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS. WHERE THE SITE OR ROAD AREAS HAVE BEEN ELEVATED IMMEDIATELY ADJACENT TO THE RAIL LINE, STAKE EROSION CONTROL FABRIC FULL LENGTH IN THE SWALE TO PREVENT CONTAMINATION OF THE RAIL BALLAST. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS.

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KMB DESIGN GROUP, LLC

Stephen A. Bray PROFESSIONAL ENGINEER

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JA90XS014F

SE 2 PL & SE 2ND ST GAINESVILLE, FL 32601

UTILITY POLE

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

ELECTRICAL

1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT/ENGINEER LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.

2. ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OR ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO

- 3. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.)
- 4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "U.L." WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "U.L." LISTED. 5. ALL CONDUIT SHALL HAVE A PULL CORD.

6. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS,

7. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.

8. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC, NEC AND ALL APPLICABLE CODES.

9. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK

10. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-B LIFT COVERPLATES.

SERVICE AND DISTRIBUTION

- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH
- A MIN. SIZE OF #12 AWG, COLOR CODED.

 2. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED. 3. CONDUIT:
 - A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.

B. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL

FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.

IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL
CONTRACTOR TO NOTIFY 811 OR OTHER SUCH UTILITY LOCATING AGENCY 3 DAYS

BEFORE DIGGING.

4. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.

ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FOURTH INCH (1/4"). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.

GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
7. GROUNDING ELECTRODE SYSTEM

A. PREPARATION

SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.

2. IF CONDUCTORS MUST RUN THROUGH CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE

CAULK. B. EXTERNAL CONNECTIONS

ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTNING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "ULTRAWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.

2. ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD). MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.

C. GROUND RODS: ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED, GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN

D. GROUND CONDUCTORS: ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS OTHERWISE NOTED.

LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #54___BE OR EQUIVALENT

A. 535 MCM DLO B. 262 MCM DLO 54880BE 54872BF #1/0 DLO 54862BF AND BARE D. 54866BF #4/0 THWN #2/0 THWN #2 THHN #6 DLO 54862BE 54207BE 54205BE

250 MCM TO 750 MCM

WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

GROUNDING CONDUCTOR SIZE	RADIUS TO INSIDE EDGE
NO. 6 AWG TO NO. 4 AWG NO. 2 AWG TO NO 1/0 AWG	6 INCHES 8 INCHES
NO. 2/0 AWG TO 4/0 AWG	12 INCHES

24 INCHES

GROUNDING RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS MUST BE SUBMITTED. TWO (2) SETS OF TEST DOCUMENTS FROM THE INDEPENDENT TESTING SERVICE ARE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

POLES, POSTS, AND STANDARDS (SINGLE MAST AND SELF SUPPORTING TOWERS)

A. LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL APPURTENANCES, TO BE

FURNISHED BY OWNER, IF REQUIRED.

B. GROUNDING: GROUND METAL POLES WITH A MINIMUM OF #2 AWG TINNED SOLID BARE COPPER CONDUCTOR CADWELDED TO TOWER BASE PLATE.

TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE)

1. GENERAL

A. ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.

ALL MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL
BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

A. COAXIAL CABLE:

- INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE FEET (3') IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
- LENGTHS LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8". 3. ANTENNA AND COAXIAL CABLE GROUNDING
- A. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

4. COAXIAL CABLE IDENTIFICATION

A. TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:

• FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA

(WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
SECOND LOCATION IS AT END OF THE COAX NEAREST THE EQUIPMENT.

B. USE ANDREW CABLE TIES (PT.# 27290) TO SECURE IDENTIFICATION TAGS.

TESTING: LESSEE SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE ONE LIMBER/QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE LESSEE WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME

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PROJECT NO

KMB DESIGN GROUP, LLC

|Stephen A. Bray PROFESSIONAL ENGINEER



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JA90XS014F

SE 2 PL & SE 2ND ST GAINESVILLE, FL 32601 **UTILITY POLE**

SHEET TITLE

GENERAL NOTES

SHEET NUMBER