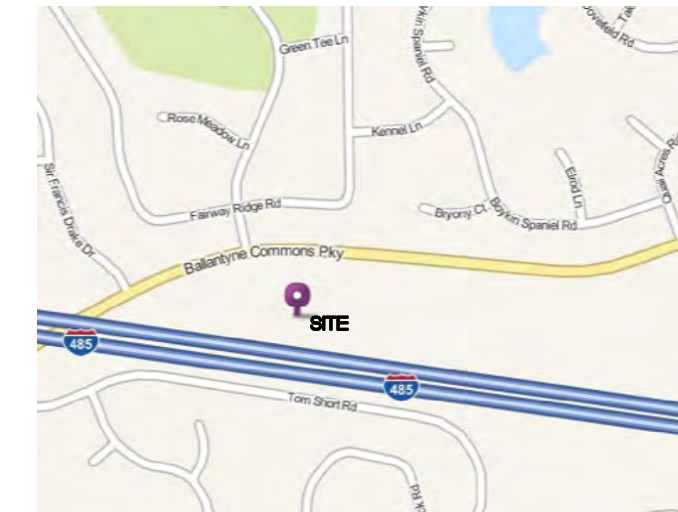


△	ISSUED FOR OWNER'S REVIEW	12/11/12
△	ISSUED FOR ZONING AND PERMITTING	12/17/12
△	ISSUED FOR CONSTRUCTION	12/28/12
△	REVISED ACCESS ROAD AND EASEMENT	01/16/13

A PROJECT FOR:


BASE TRANSCIEVER SITE
J.M. ROBINSON MIDDLE SCHOOL
6607 BALLANTYNE COMMONS PARKWAY
CHARLOTTE, NC 28277
MECKLENBURG COUNTY
NORTH CAROLINA

DIRECTIONS:
 FROM CHARLOTTE, NC: START OUT GOING SOUTHEAST ON E. TRADE ST. TOWARD S. ALEXANDER ST. CONTINUE FOR APPROX. 0.2 MILES. TURN RIGHT ONTO S. MCDOWELL ST/NC-27. CONTINUE FOR APPROX. 0.2 MILES. TURN LEFT ONTO E. 3RD ST/NC-16 S. CONTINUE TO FOLLOW NC-16 S. FOR APPROX. 1.9 MILES. TURN LEFT ONTO PROVIDENCE RD/NC-16 S. CONTINUE TO FOLLOW NC-16 S. FOR APPROX. 10.0 MILES. TURN RIGHT ONTO BALLANTYNE COMMONS PKY. CONTINUE FOR APPROX. 0.9 MILES. END AT 5925 BALLANTYNE COMMONS PARKWAY, CHARLOTTE, NC.



VICINITY MAP



DRAWING INDEX

SURVEY

V1	SITE SURVEY (SHEET 1 OF 2)
V2	SITE SURVEY (SHEET 2 OF 2)

GENERAL

G1	GENERAL ABBREVIATIONS
G2	BUILDING CODE APPENDIX B (SHEET 1 OF 2)
G2A	BUILDING CODE APPENDIX B (SHEET 2 OF 2)

CIVIL

C1	GENERAL NOTES AND SYMBOLS
C2	SITE LAYOUT PLAN
C3	SITE GRADING PLAN
C4	TOWER ELEVATION AND COMPOUND FENCE DETAILS
C5	SITE DETAILS

ELECTRICAL

E1	GENERAL ELECTRICAL NOTES AND LEGEND
E2	SERVICES ROUTING PLAN
E3	SITE GROUNDING PLAN
E4	ONE LINE DIAGRAM
E5	GROUNDING DETAILS
E6	UTILITY RACK AND TRENCH DETAILS

SITE INFORMATION:

PROPERTY OWNER:
 CHARLOTTE-MECKLENBURG
 BOARD OF EDUCATION

PARCEL ID #:
 22914402 & 22914403

SURVEYOR:
 SANDERS SURVEYING AND
 MAPPING SERVICES, INC.
 510 AVENA ROAD
 BLACK MOUNTAIN, NC 28711
 (828) 669-2777

APPLICANT:
 BERKLEY GROUP LLC
 10612-D PROVIDENCE ROAD, PMB 742
 CHARLOTTE, NC 28277
 BONNIE NEWELL - PROJECT MANAGER
 TEL: (704) 907-7104

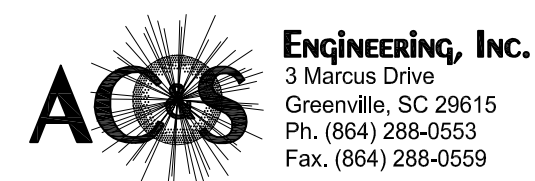
POWER:
 DUKE ENERGY
 (800) 777-9898

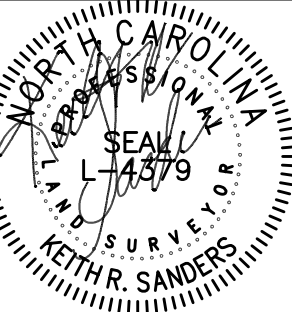
TELCO:
 AT&T
 (866) 620-6000

TOWER INFORMATION:
 PROPOSED 175' MONOPINE
 LATITUDE: 35°03'47.12"N
 LONGITUDE: 80°47'32.86" W
 GROUND ELEVATION: 642.6'

ZONING INFORMATION:
 JURISDICTION: CHARLOTTE-MECKLENBURG
 PLANNING DEPARTMENT
 (704) 336-2205
 CLASSIFICATION: R-3
 OCCUPANCY: SCHOOL SPORTS COMPLEX

BUILDING INSPECTIONS:
 MECKLENBURG COUNTY CODE ENFORCEMENT
 700 NORTH TRYON STREET
 CHARLOTTE, NC 28202
 (704) 814-0435





SANDERS SURVEYING & MAPPING SERVICES, INC.
 510 AVENA ROAD,
 BLACK MOUNTAIN,
 NORTH CAROLINA, 28711
 (828) 669-2777
 C-2384

BASE TRANSEIVER SITE
 J.M. ROBINSON MIDDLE SCHOOL
 6607 BALLANTYNE COMMONS PARKWAY
 CHARLOTTE, NC 28277
 MECKLENBURG COUNTY
 NORTH CAROLINA

BERKLEY GROUP LLC

DATE	REVISION
12/14/12	ISSUED FOR ZONING AND PERMITTING
12/17/12	ISSUED FOR ZONING AND PERMITTING
01/16/13	REVISED ACCESS ROAD AND EASEMENT

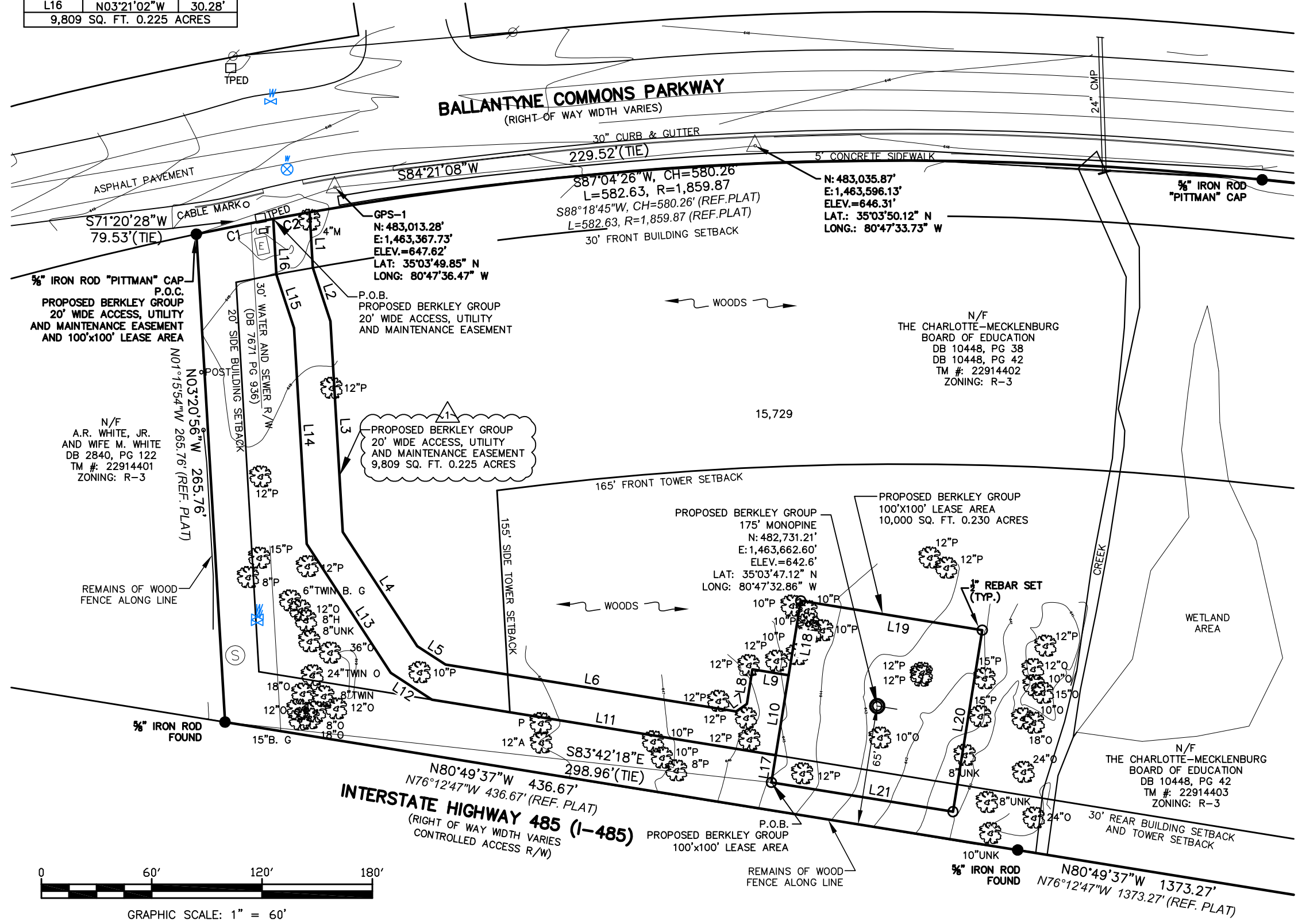
PROJECT NUMBER:
12049.010
 SHEET CONTENTS:
SITE SURVEY
 (SHEET 2 OF 2)
 SHEET NUMBER:
V2

LINE	BEARING	DISTANCE
S71°20'28"W 79.53' (TIE)		
C1 (TIE)	SEE CURVE TABLE	
C2	SEE CURVE TABLE	
L1	S03°21'02"E	30.11'
L2	S18°10'33"E	30.71'
L3	S03°20'56"E	114.80'
L4	S33°06'55"E	74.14'
L5	S56°58'16"E	18.29'
L6	S80°49'37"E	160.20'
L7	N54°10'23"E	7.07'
L8	N09°10'23"E	19.00'
L9	S80°49'37"E	20.00'
L10	S09°10'23"W	44.00'
L11	N80°49'37"W	189.42'
L12	N56°58'16"W	26.74'
L13	N33°06'55"W	83.68'
L14	N03°20'56"W	117.51'
L15	N18°10'33"W	30.71'
L16	N03°21'02"W	30.28'
9,809 SQ. FT. 0.225 ACRES		

LINE	BEARING	DISTANCE
S03°20'56"E 265.76' (TIE)		
S83°42'18"E 298.96' (TIE)		
L17		15.00'
L10	N09°10'23"E	44.00'
L18		41.00'
TOTAL = 100.00'		
L19	S80°49'37"E	100.00'
L20	S09°10'23"W	100.00'
L21	N80°49'37"W	100.00'
10,000 SQ. FT. 0.230 ACRES		

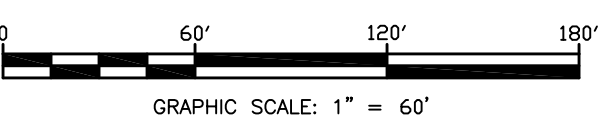
CURVE	LENGTH	RADIUS	CHORD	BEARING	DELTA
C1	42.55	1859.87	42.54	N78°45'17"E	1°18'38"
C2	20.15	1859.87	20.15	N79°43'13"E	0°37'14"

REF. PLAT.
 PLAT TITLED "RECOMBINATION BOUNDARY SURVEY FOR: THE CHARLOTTE-MECKLENBURG BOARD OF EDUCATION, OWNERS", PREPARED BY SANDERS SURVEYING & MAPPING SERVICES, INC., DATED 11/01/12, RECORDED 12/14/12, IN PLAT BOOK 54, PAGE 618.



LEGEND

BEARING & DISTANCE (BY DEED OR PLAT)	LINE SURVEYED
R/W	LINE NOT SURVEYED
—	R/W (RIGHT-OF-WAY)
—	CHAIN LINK FENCE LINE
—	FIRE HYDRANT
—	WATER METER
—	WATER VALVE
—	WATER LINE
—	SANITARY MANHOLE
—	SANITARY SEWER LINE
—	POWER OR UTILITY POLE
—	LIGHT POLE
—	OVERHEAD ELECTRIC LINE
—	TELEPHONE MANHOLE
—	TELEPHONE PEDESTAL
—	UNDERGROUND FIBER OPTIC CABLE
—	IRON PIN FOUND
—	PK NAIL SET
—	IRON PIN SET (1/2" REBAR)
—	PK NAIL FOUND
—	CMF-CONCRETE R/W MONUMENT FOUND
—	TEMPORARY BENCH MARK
—	TRAVERSE NAIL
—	CATCH BASIN
—	STORM DRAIN LINE
—	CREEK OR DITCH
—	CONCRETE
—	P.O.C. POINT OF COMMENCEMENT
—	P.O.B. POINT OF BEGINNING
—	N/F NOW OR FORMERLY
—	TM TAX MAP
—	DB DEED BOOK
—	PB PLAT BOOK
—	RCP REINFORCED CONCRETE PIPE
—	A APPLE
—	B.G. BLACK GUM
—	H HICKORY
—	M MAPLE
—	O OAK
—	P PINE



- CHICAGO TITLE COMPANY, LLC
 ALTA COMMITMENT FORM
 COMMITMENT NUMBER: 12-14929CH
 EFFECTIVE DATE: NOVEMBER 21, 2012
- SCHEDULE B - SECTION II
 EXCEPTIONS
- SCHEDULE B OF THE POLICY OR POLICIES TO BE ISSUED WILL CONTAIN EXCEPTIONS TO THE FOLLOWING MATTERS UNLESS THE SAME ARE DISPOSED OF TO THE SATISFACTION OF THE COMPANY:
- DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTER, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR MORTGAGE THEREON COVERED BY THIS COMMITMENT.
 - TAXES FOR THE YEAR 2012, AND SUBSEQUENT YEARS; HOWEVER, THIS POLICY INSURES THAT THE LAND IS EXEMPT FROM TAXES SO LONG AS TITLE IS HELD BY THE OWNER AS SET FORTH IN SCHEDULE A HEREOF, AND SO LONG AS THE SAID OWNER RETAINS ITS TAX EXEMPT STATUS.
 - THE CORRECTNESS OF THE SQUARE FOOTAGE/ACREAGE COMPUTATION CONTAINED IN THE DESCRIPTION OF THE LAND IS NOT INSURED.
 - ANY DISCREPANCY, CONFLICT, ACCESS, SHORTAGE IN AREA OR BOUNDARY LINES, ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OVERLAP, SETBACK, EASEMENT OR CLAIMS OF EASEMENT, RIPARIAN RIGHT, AND TITLE TO LAND WITHIN ROADS, WAYS, RAILROADS, WATERCOURSES, BURIAL GROUNDS, MARSHES, DREGED OR FILLED AREAS OR LAND BELOW THE MEAN HIGHWATER MARK OR WITHIN THE BOUNDS OF ANY ADJOINING BODY OF WATER, OR OTHER ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY A CURRENT INSPECTION AND ACCURATE AND COMPLETE LAND SURVEY OF THE LAND.
 - EASEMENT(S) TO DUKE POWER COMPANY RECORDED IN BOOK 5476, PAGE 758. (BLANKET IN NATURE)
 - EASEMENT(S) TO CITY OF CHARLOTTE RECORDED IN BOOK 7671, PAGE 936. (AFFECTS SUBJECT PROPERTY, 30' WATER AND SEWER R/W PLOTTED AND SHOWN HEREON)
 - FEE SIMPLE DEED TO THE DEPARTMENT OF TRANSPORTATION RECORDED IN BOOK 7731, PAGE 742. (AFFECTS SUBJECT PROPERTY, BALLANTYNE COMMON PARKWAY RIGHT-OF-WAY PLOTTED AND SHOWN HEREON)
 - EASEMENT(S) TO DEPARTMENT OF TRANSPORTATION RECORDED IN BOOK 7731, PAGE 747. (TEMPORARY DRAINAGE, CONSTRUCTION AND DETOUR EASEMENT EXPIRED DUE TO COMPLETION OF THE PROJECT)
 - EASEMENT AND AGREEMENT TO THE CITY OF CHARLOTTE RECORDED IN BOOK 8112, PAGE 948 AND BOOK 8112, PAGE 953. (NOT PLOTTABLE DUE TO THE ILLEGIBILITY OF THE DOCUMENTS)
 - TERMS AND PROVISIONS OF THE LEASE BY AND BETWEEN THE CHARLOTTE-MECKLENBURG BOARD OF EDUCATION ("LANDLORD") AND BERKLEY GROUP, LLC, A NORTH CAROLINA LIMITED LIABILITY COMPANY ("TENANT"), A MEMORANDUM OF WHICH IS RECORDED IN BOOK _____, PAGE _____

**2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: JM Robinson Base Transceiver Telecommunications site
 Address: 6607 BALLANTYNE COMMONS PARKWAY, CHARLOTTE, NC Zip Code 28214
 Proposed Use: Cellular Communications Tower Site
 Owner/Authorized Agent: BERKLEY GROUP - Bonnie Newell Phone # (704) 907-7104
 E-Mail: b_newell@bellsouth.net
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County State

PROJECT SUMMARY
 Building description: 100'x100' lease area for telecommunications tower site with proposed monopine tower, wooden fence and power for the site.

Scope of work details: (If phased construction, please see plan submittal guidelines.) Site will consist of a 70'x70' fenced compound area with a 12' wide access road. A 175' monopine tower and associated foundation will be constructed. Electrical service for the site will be installed.

Code Compliance Summary: _____

Alternative Means of Compliance Request: _____

- Industrial equipment with declaration document attached. [See www.Meckpermit.com (Electrical Services)]
- RTAP (Revisions to approved plans) [See www.Meckpermit.com (Commercial Plan Review Services)]
- Date of Preliminary Review _____

LEAD DESIGN PROFESSIONAL:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				INCLUDE EXT.	
Civil	AC&S Engineering, Inc	Theresa Aldrich	029239	(864) 288-0553	
Electrical	Sturkie & Assoc. Eng. PC	Chris Sturkie	024170	(864) 363-4855	
Fire Alarm					
Plumbing					
Mechanical					
Sprinkler-Standpipe					
Structural	Nello Corporation	Jason M. Lambert	031809	(574) 288-3632	
Retaining Walls >5' High					
Other					

2012 EDITION OF NC CODE FOR: New Construction Addition Upfit
EXISTING: Reconstruction Alteration Repair Renovation
CONSTRUCTED: (date) _____ **ORIGINAL USE(S)** (Ch. 3): _____
RENOVATED: (date) _____ **CURRENT USE(S)** (Ch. 3): _____
PROPOSED USE(S) (Ch. 3): _____

PERCENTAGE OF WALL OPENING CALCULATIONS - N/A
 THIS SECTION FOR ADDITIONS, NEW CONSTRUCTION AND CHANGE OF USE

Allowable openings per T705.8

WALL LEGENDS - N/A

THIS SECTION REQUIRED TO BE COMPLETED FOR ALL PROJECTS
 CHECK IF THE FOLLOWING ARE PRESENT AND INDICATED BY A WALL LEGEND ON ALL PLANS
 Fire Walls 706 Fire Barriers 707 Shaft Enclosure 708 Fire Partitions 709 Smoke Barriers 710 Smoke Partitions 711

LIFE SAFETY SYSTEM REQUIREMENTS - N/A
 THIS SECTION IS REQUIRED TO BE COMPLETED FOR ALL PROJECTS

Emergency Lighting: (S1006) No Yes
 Exit Signs: (S1011) No Yes
 Fire Alarm: (S907, NFPA 72-07) No Yes
 Smoke Detection Systems: (S907) No Yes Partial _____
 Panic Hardware: (S1008.1.10) No Yes
 Life safety systems generator (S2702.2) No Yes

LIFE SAFETY PLAN REQUIREMENTS - N/A

- Life Safety Plan Sheet #: _____
- Fire and/or smoke rated wall locations (Chapter 7)
 - Assumed and real property line locations
 - Exterior wall opening area with respect to distance to assumed property lines (705.8)
 - Existing structures within 30' of the proposed building
 - Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
 - Occupant loads for each area
 - Exit access travel distances (1016)
 - Common path of travel distances (1014.3 & 1028.8)
 - Dead end lengths (1018.4)
 - Clear exit widths for each exit door
 - Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
 - Actual occupant load for each exit door
 - A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 - Location of doors with panic hardware (1008.1.10)
 - Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)
 - Location of doors with electromagnetic egress locks (1008.1.9.8)
 - Location of doors equipped with hold-open devices
 - Location of emergency escape windows (1029)
 - The square footage of each fire area (902)
 - The square footage of each smoke compartment (407.4)
 - Note any code exceptions or table notes that may have been utilized regarding the items above

Building Code: 2012 North Carolina State Building Code (NCSBC)
 2009 NC Rehab Code 2012 Chapter 34 (attach summary)
 1995 Existing Building Code Vol. 9

New Building: New building Shell building
 First time interior completion (upfit)
 Addition

Existing Building: Change of use/occupancy
 Building/tenant space interior completion (renovation)

Please see 3411 NCSBC for compliance for Accessibility for Existing Buildings. A letter from the designer will be required to be attached or reproduced on the plans to verify how compliance will be achieved.
 Year of construction _____ Original use _____

2009 NC REHAB CODE INFORMATION: N/A Scope of work / work area must be listed and delineated on the plans.
 Check all that apply: Repair Renovation Alteration Reconstruction Change of use Addition
 Last known legal occupancy use _____ **Historic Property:** Yes No
Original Building Construction Date: _____ **Date of Preliminary Meeting:** _____
Justifications for using the REHAB code: _____

Reviewers Notes for Field Inspector:

BASIC BUILDING DATA - N/A

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
 (check all that apply)

Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D

Standpipes: No Yes Class I II III Wet Dry

Fire District: No Yes (Primary) **Flood Hazard Area:** No Yes

Building Height: (feet) N/A, No building in this project.

Gross Building Area: N/A

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6 th Floor	()		
5 th Floor	()		
4 th Floor	()		
3 rd Floor	()		
2 nd Floor	()		
Mezzanine	()		
1 st Floor	()		
Basement	()		
TOTAL			

ALLOWABLE AREA - N/A

Occupancy:
 Assembly (303) A-1 A-2 A-3 A-4 A-5
 Business (304)
 Educational (305)

FIRE PROTECTION REQUIREMENTS
 THIS SECTION REQUIRED TO BE COMPLETED FOR ALL PROJECTS

Life Safety Plan Sheet #, if Provided N/A /

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D (W/ REJECTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses						
Bearing Walls						
Exterior						
North						
East						
West						
South						
Interior						
Nonbearing Walls and Partitions						
Exterior walls						
North						
East						
West						
South						
Interior walls and partitions						
Floor Construction						
Including supporting beams and joists						
Roof Construction						
Including supporting beams and joists						
Shaft Enclosures - Exit						
Shaft Enclosures - Other						
Corridor Separation						
Occupancy Separation						
Party/Fire Wall Separation						
Smoke Barrier Separation						
Tenant Separation						
Incidental Use Separation						

* Indicate section number permitting reduction

Factory (306) F-1 Moderate F-2 Low
 Hazardous (307) H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional (308) I-1 I-2 I-3 I-4
 I-3 Condition 1 2 3 4 5
 Mercantile (309)
 Residential (310) R-1 R-2 R-3 R-4
 Storage (311) S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous (312)

Accessory Occupancies: N/A

Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 I-2 I-3 I-4
 I-3 Condition 1 2 3 4 5
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous

Incidental Uses (Table 508.2.5):

- Furnace room where any piece of equipment is over 400,000 Btu per hour input
- Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
- Refrigerant machine room
- Hydrogen cutoff rooms, not classified as Group H
- Incinerator rooms
- Paint shops, not classified as Group H, located in occupancies other than Group F
- Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
- Laundry rooms over 100 square feet
- Group I-3 cells equipped with padded surfaces
- Group I-2 waste and linen collection rooms
- Waste and linen collection rooms over 100 square feet
- Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
- Rooms containing fire pumps
- Group I-2 storage rooms over 100 square feet
- Group I-2 commercial kitchens
- Group I-2 laundries equal to or less than 100 square feet
- Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: 402 403 404 405 406 407 408 409 410 411 412
 413 414 415 416 417 418 419 420 421 422 423 424
 425 426 427

Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9

Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____
 Incidental Use Separation (508.2.5)
 This separation is not exempt as a Non-Separated Use (see exceptions).
 Non-Separated Use (508.3)
 The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Use (508.4) - See below for area calculations
 For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$\frac{N/A}{N/A} + \frac{N/A}{N/A} + \dots = N/A \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 ² AREA	(C) AREA FOR FRONTAGE INCREASE ³	(D) AREA FOR SPRINKLER INCREASE ⁴	(E) ALLOWABLE AREA OR UNLIMITED ⁵	(F) MAXIMUM BUILDING AREA ⁴

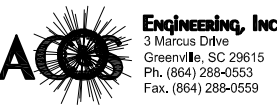
¹ Frontage area increases from Section 506.2 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 b. Total Building Perimeter = _____ (P)
 c. Ratio (F/P) = _____ (F/P)
 d. W = Minimum width of public way = _____ (W)
 e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30 = \dots (\%)$

² The sprinkler increase per Section 506.3 is as follows:
 a. Multi-story building $I_s = 200$ percent
 b. Single story building $I_s = 300$ percent

³ Unlimited area applicable under conditions of Section 507.
⁴ Maximum Building Area = total number of stories in the building x E (506.4).
⁵ The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

ALLOWABLE HEIGHT N/A

ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type _____		Type _____	
Building Height in Feet	Feet = H + 20' = _____		
Building Height in Stories	Stories + 1 = _____		



BASE TRANSCIVER SITE
 J.M. ROBINSON MIDDLE SCHOOL
 6607 BALLANTYNE COMMONS PARKWAY
 CHARLOTTE, NC 28277
 MECKLENBURG COUNTY
 NORTH CAROLINA



DATE	REVISION
12/11/12	ISSUED FOR OWNER'S REVIEW
12/17/12	ISSUED FOR ZONING AND PERMITTING
12/28/12	ISSUED FOR CONSTRUCTION

PROJECT NUMBER: 12049.010
 SHEET CONTENTS:
BUILDING CODE APPENDIX B
 (SHEET 1 OF 2)
 SHEET NUMBER:
G2



CIVIL SYMBOLS		
EXISTING	ITEM	NEW
	POWER POLE WITH LIGHT	
	LIGHT POLE	
	POWER POLE	
	GUY ANCHOR	
—OHE—	OVERHEAD ELECTRIC	—OHE—
	ELECTRIC MANHOLE	
	COMMUNICATIONS MANHOLE	
	UTILITY BOX	
	BUILDING	
	POST	
	SIGN	
	GAS METER	
	GAS VALVE	
	GAS LINE	—2" G—
—SS—	SANITARY SEWER LINE & MANHOLE	—8" SS—
	SANITARY SEWER CLEAN OUT	
	FIRE HYDRANT	
	POST INDICATOR VALVE	
—W—	WATER LINE & VALVE	—6" W—
	WATER METER	
—FW—	FIRE WATER LINE	—6" FW—
X X	ABANDONED UTILITY	
	CULVERT WITH HEADWALLS	
—SD—	STORM DRAIN	
	STORM DRAIN HEADWALL	
	AREA INLET	
	STORM DRAIN MANHOLE	
—D—	☉ DRAINAGE DITCH	—D—
→	FLOW DIRECTION	→
—170—	CONTOURS	—170—
X 712.13	SPOT ELEV.	
	SIDEWALK/GRAVEL	
	CONCRETE PAVING	
	ASPHALT SURFACE COURSE	
	CURB & GUTTER	
	EDGE OF PAVEMENT	
—X—	CHAIN LINK FENCE	—X—
	ITEM TO BE REMOVED	
	PARKING STRIPING / HC PARKING	
	HC RAMP	
	BOLLARD	
	IRON PIN SET	
	WOODS	
	SILT FENCE	—SF—

NOTE :
 THIS IS A GENERAL LEGEND.
 SOME ITEMS MAY NOT APPLY.

GENERAL NOTES

1. THE FACILITY IS AN UNOCCUPIED WIRELESS FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK WILL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS WILL VISIT THE JOB SITE AND BE 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 PROJECT ENGINEER AND ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
4. WRITTEN AUTHORIZATION IS REQUIRED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
5. CONTACT LOCAL DIGGERS HOTLINE 48 HOURS PRIOR TO PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
6. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
7. ALL WORK PERFORMED AND MATERIALS INSTALLED WILL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE CONTRACTOR WILL 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.
8. THE GENERAL CONTRACTOR WILL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE PROJECT ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
9. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS WILL BE INCLUDED AS PART OF THE WORK.
10. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLAT OF THE SURVEY DRAWING, WILL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR WILL RELY SOLELY ON THE PLAT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND WILL 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 WILL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.

BASE TRANSCREIVER SITE
 J.M. ROBINSON MIDDLE SCHOOL
 6607 BALLANTYNE COMMONS PARKWAY
 CHARLOTTE, NC 28277
 MECKLENBURG COUNTY
 NORTH CAROLINA



REVISION	DATE
ISSUED FOR OWNER'S REVIEW	12/11/12
ISSUED FOR ZONING AND PERMITTING	12/17/12
ISSUED FOR CONSTRUCTION	12/28/12

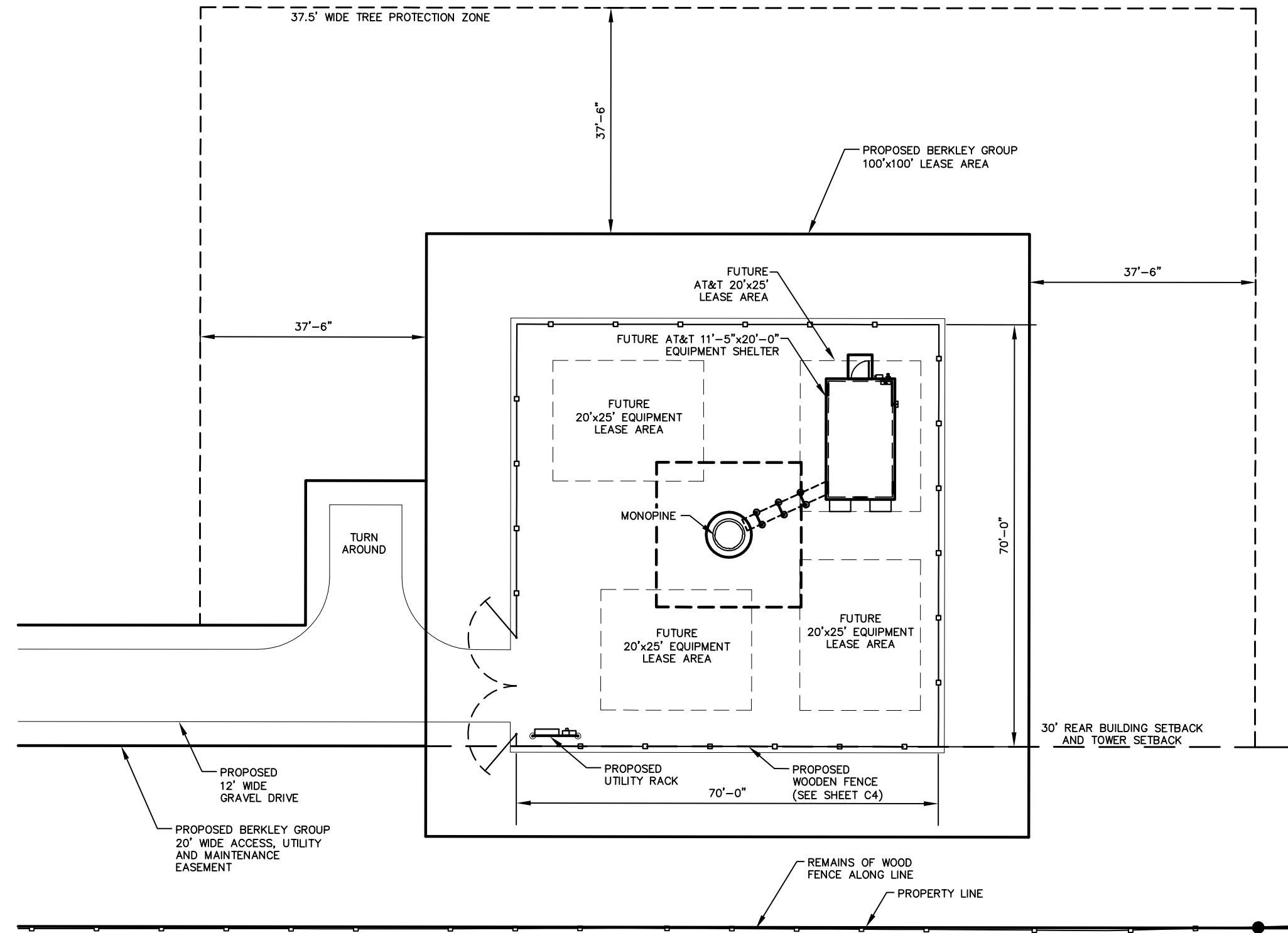
PROJECT NUMBER:
 12049.010

SHEET CONTENTS:
GENERAL NOTES AND SYMBOLS

SHEET NUMBER:
01



BASE TRANSCREIVER SITE
 J.M. ROBINSON MIDDLE SCHOOL
 6607 BALLANTYNE COMMONS PARKWAY
 CHARLOTTE, NC 28277
 MECKLENBURG COUNTY
 NORTH CAROLINA



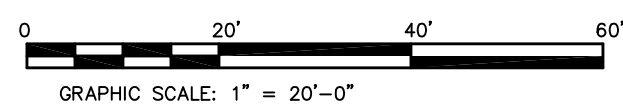
GENERAL NOTES

1. SEE G1 FOR GENERAL ABBREVIATIONS.
2. SEE C1 FOR GENERAL NOTES AND SYMBOLS.
3. SEE SITE SURVEY FOR LIMITS OF LEASE AREA AND ADDITIONAL SURVEY INFORMATION.
4. PARKING FOR SERVICE VEHICLES WILL BE PROVIDED IN THE VEHICLE TURNAROUND AREA.
5. AFTER ALL HEAVY TRAFFIC IS COMPLETE (CONCRETE, TRUCKS, TRAILERS, DRILL RIG, ETC.) CONTRACTOR SHALL REGRADE THE ROAD/PARKING AREA COMPLETELY, ADDING AND COMPACTING ADDITIONAL CRUSHED STONE AS NECESSARY.

FLOOD INSURANCE RATE MAP
 NORTH CAROLINA
 3710446800J
 EFFECTIVE: MARCH 2, 2009
 FLOOD ZONE: X
 BFE: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN; AREAS OUTSIDE FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN

* J. M. ROBINSON
 PROPOSED MONOPINE
 LAT. = 35° 03' 47.12" N
 LONG. = 80° 47' 32.86" W

* 2C INFORMATION TAKEN FROM 2-C LETTER FOR BERKLEY GROUP, FOR J.M. ROBINSON SITE, DATED 11-13-12.



REVISION	DATE
ISSUED FOR OWNER'S REVIEW	12/11/12
ISSUED FOR ZONING AND PERMITTING	12/17/12
ISSUED FOR CONSTRUCTION	12/28/12

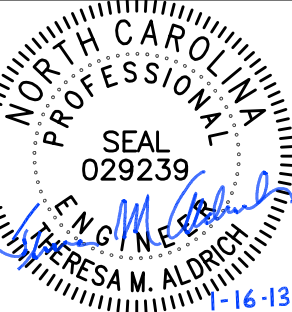
PROJECT NUMBER:
12049.010

SHEET CONTENTS:

SITE LAYOUT PLAN

SHEET NUMBER:
C2





BASE TRANSCIVER SITE
 J.M. ROBINSON MIDDLE SCHOOL
 6607 BALLANTYNE COMMONS PARKWAY
 CHARLOTTE, NC 28277
 MECKLENBURG COUNTY
 NORTH CAROLINA

BERKLEY GROUP LLC

REVISION	DATE
ISSUED FOR OWNER'S REVIEW	12/11/12
ISSUED FOR ZONING AND PERMITTING	12/17/12
ISSUED FOR ZONING AND PERMITTING	01/16/13
REVISED ACCESS ROAD AND EASEMENT	01/16/13

PROJECT NUMBER:
12049.010
 SHEET CONTENTS:
SITE GRADING PLAN
 SHEET NUMBER:
C3

GENERAL NOTES

- SEE G1 FOR GENERAL ABBREVIATIONS.
- SEE C1 FOR GENERAL NOTES AND SYMBOLS.
- SEE SITE SURVEY FOR LIMITS OF LEASE AREA AND ADDITIONAL SURVEY INFORMATION.
- DISTURBED AREAS TO BE SEEDED AND MULCHED IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION.
- PLACE STONE TO ENSURE PROPER DRAINAGE AWAY FROM CONCRETE PAD AND EQUIPMENT.

NOTE:
 LIMITS OF DISTURBANCE = 0.455 AC

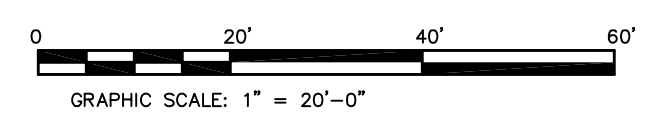
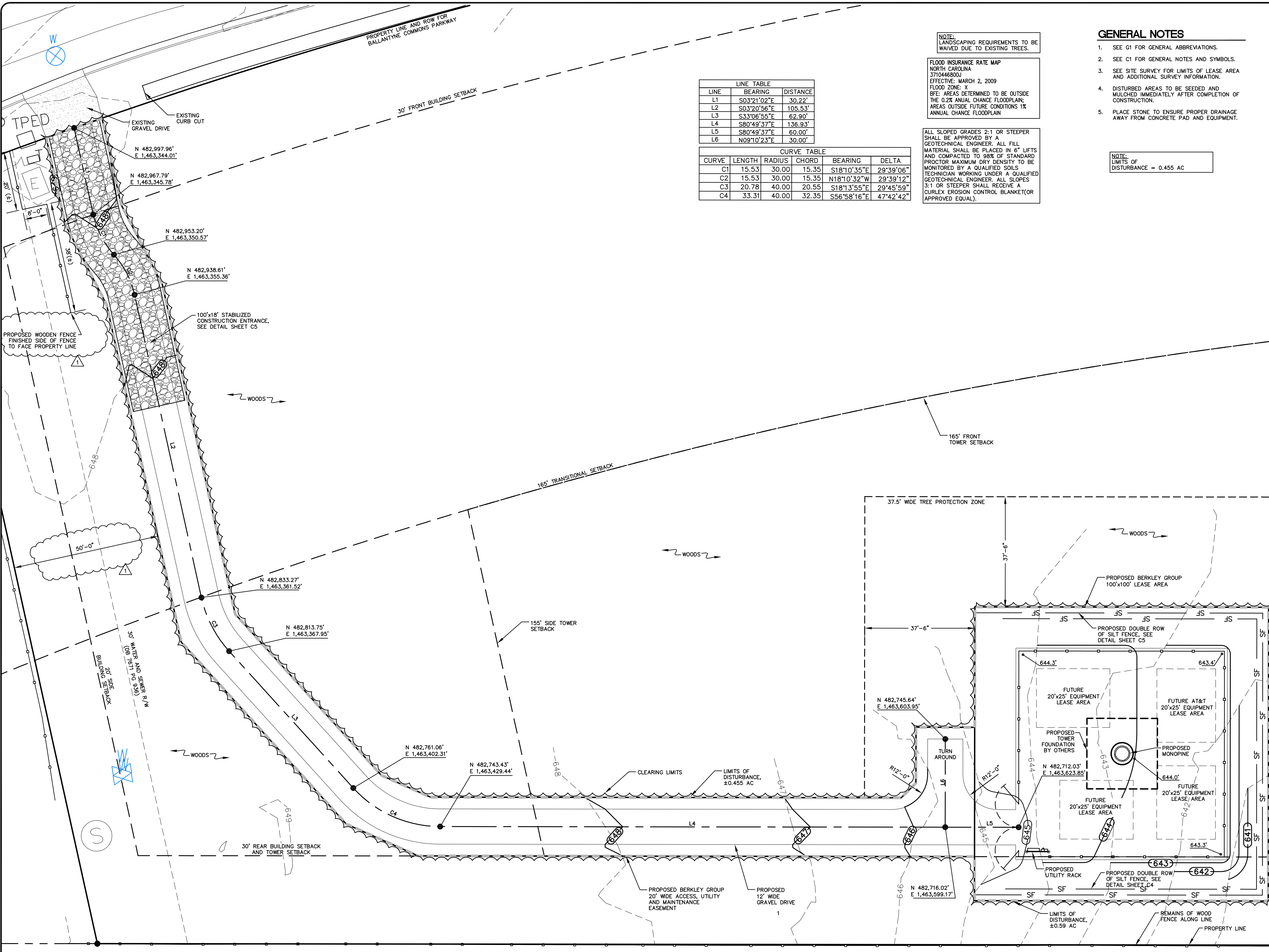
NOTE:
 LANDSCAPING REQUIREMENTS TO BE WAIVED DUE TO EXISTING TREES.

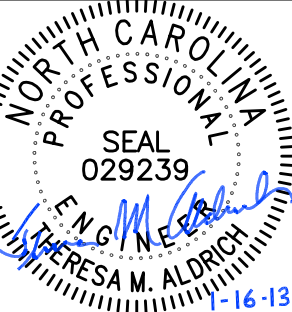
FLOOD INSURANCE RATE MAP
 NORTH CAROLINA
 3710446800J
 EFFECTIVE: MARCH 2, 2009
 FLOOD ZONE: X
 BFE: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN; AREAS OUTSIDE FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN

ALL SLOPED GRADES 2:1 OR STEEPER SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER. ALL FILL MATERIAL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY TO BE MONITORED BY A QUALIFIED SOILS TECHNICIAN WORKING UNDER A QUALIFIED GEOTECHNICAL ENGINEER. ALL SLOPES 3:1 OR STEEPER SHALL RECEIVE A CURLEX EROSION CONTROL BLANKET (OR APPROVED EQUAL).

LINE	BEARING	DISTANCE
L1	S03°21'02"E	30.22'
L2	S03°20'56"E	105.53'
L3	S33°06'55"E	62.90'
L4	S80°49'37"E	136.93'
L5	S80°49'37"E	60.00'
L6	N09°10'23"E	30.00'

CURVE	LENGTH	RADIUS	CHORD	BEARING	DELTA
C1	15.53	30.00	15.35	S18°10'35"E	29°39'06"
C2	15.53	30.00	15.35	N18°10'32"W	29°39'12"
C3	20.78	40.00	20.55	S18°13'55"E	29°45'59"
C4	33.31	40.00	32.35	S56°58'16"E	47°42'42"

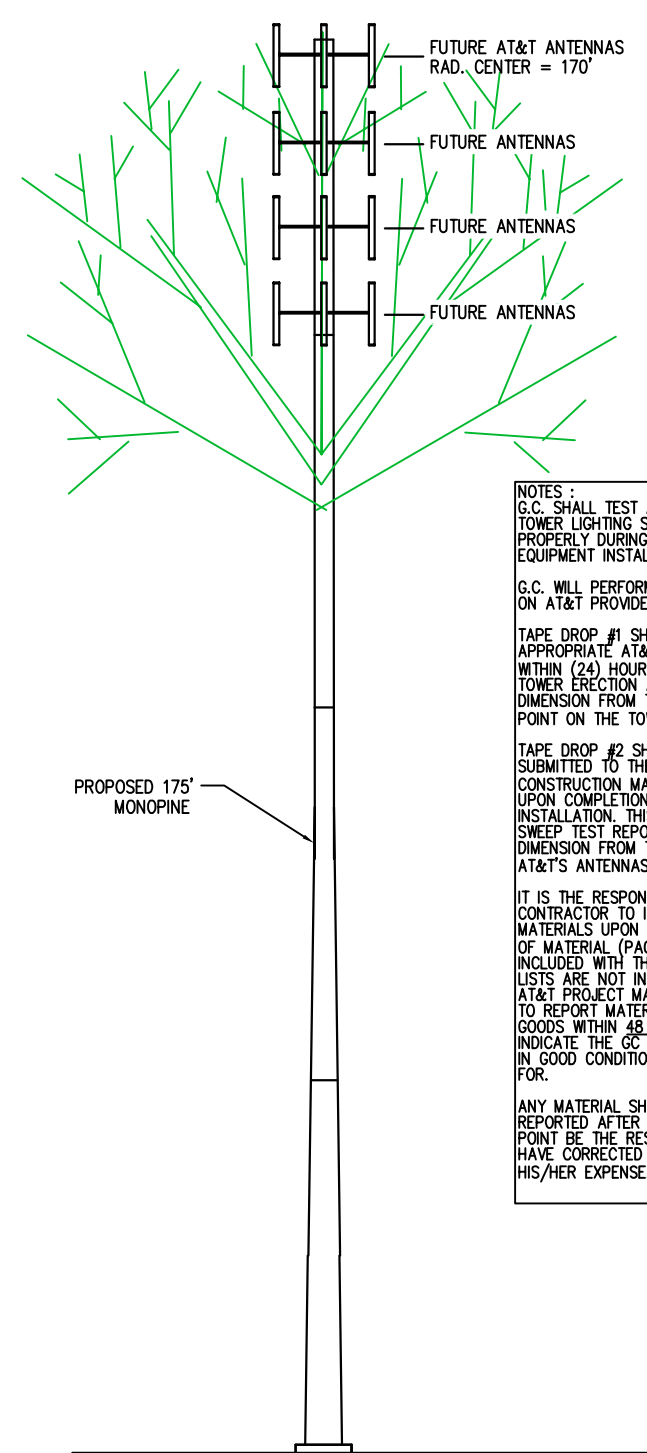




BASE TRANSCIVER SITE
 J.M. ROBINSON MIDDLE SCHOOL
 6607 BALLANTYNE COMMONS PARKWAY
 CHARLOTTE, NC 28277
 MECKLENBURG COUNTY
 NORTH CAROLINA

BERKLEY GROUP LLC

NOTE :
 THE TOWER DRAWING IS ONLY A GRAPHIC REPRESENTATION OF THE STRUCTURE. THE ACTUAL TOWER IN THE FIELD MAY VARY.



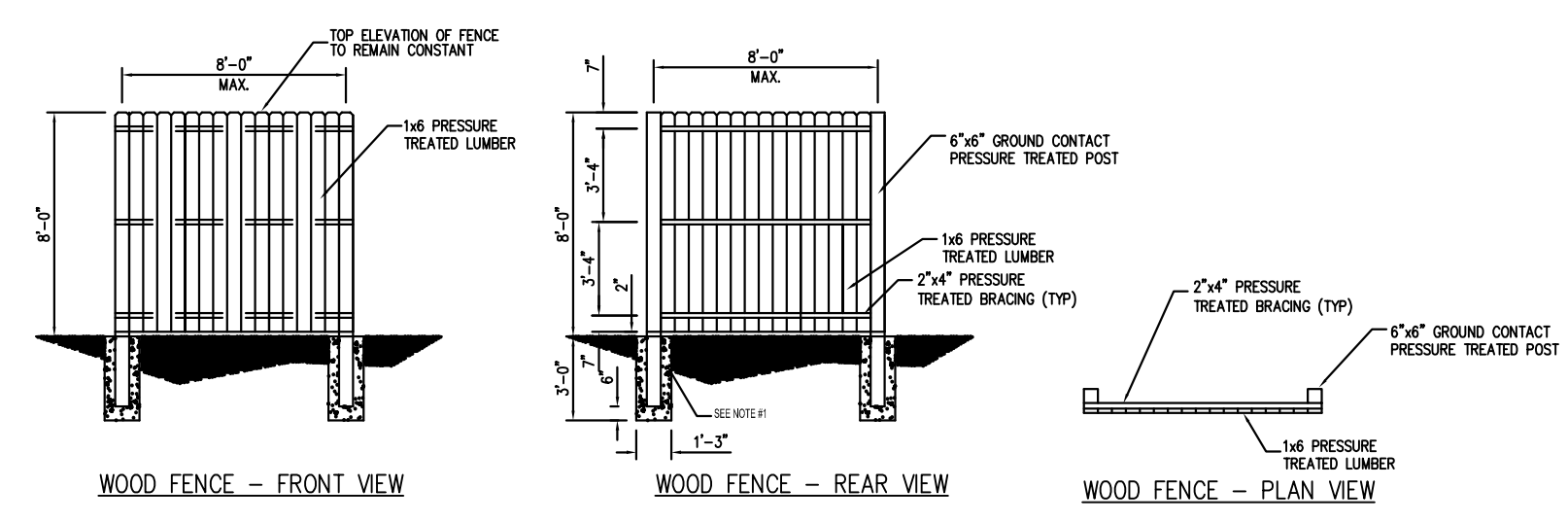
1 TOWER ELEVATION
 C4 SCALE: NTS

NOTES :
 1. THE MONOPINE BRANCHES SHALL BE GREEN IN COLOR AND THE POLE SHALL BE BROWN IN COLOR.
 2. ALL PROPOSED ANTENNAS AND OTHER APPURTENANCES SHALL BE MOUNTED WITHIN THE COVER OF THE TOWER BRANCHES.

NOTES:
 G.C. SHALL TEST AND DOCUMENT THAT THE TOWER LIGHTING SYSTEMS ARE FUNCTIONING PROPERLY DURING & UPON COMPLETION OF EQUIPMENT INSTALLATION.
 G.C. WILL PERFORM TWO HEIGHT VERIFICATIONS ON AT&T PROVIDED FORMS AS FOLLOWS:
 TAPE DROP #1 SHALL BE SUBMITTED TO THE APPROPRIATE AT&T CONSTRUCTION MANAGER WITHIN (24) HOURS UPON COMPLETION OF THE TOWER ERECTION AND WILL DOCUMENT THE DIMENSION FROM THE GROUND TO HIGHEST POINT ON THE TOWER (I.E. LIGHTNING ROD).
 TAPE DROP #2 SHALL BE PERFORMED AND SUBMITTED TO THE APPROPRIATE AT&T CONSTRUCTION MANAGER WITHIN (72) HOURS UPON COMPLETION OF THE ANTENNA AND LINE INSTALLATION. THIS FORM WILL ACCOMPANY THE SWEET REPORTS AND WILL DOCUMENT THE DIMENSION FROM THE GROUND TO THE TOP OF AT&T'S ANTENNAS.
 IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INVENTORY THE TOWER MATERIALS UPON DELIVERY TO THE SITE. A BILL OF MATERIAL (PACKING LIST(S)) WILL BE INCLUDED WITH THE SHIPMENT. IF THIS LIST OR LISTS ARE NOT INCLUDED, PLEASE NOTIFY THE AT&T PROJECT MANAGER IMMEDIATELY. FAILURE TO REPORT MATERIAL SHORTAGES OR DAMAGED GOODS WITHIN 48 HOURS OF RECEIPT WILL INDICATE THE GC HAS ACCEPTED ALL MATERIAL IN GOOD CONDITION AND ALL IS ACCOUNTED FOR.
 ANY MATERIAL SHORTAGES OR DAMAGES REPORTED AFTER 48 HOURS WILL AT THAT POINT BE THE RESPONSIBILITY OF THE GC TO HAVE CORRECTED BY THE TOWER VENDOR AT HIS/HER EXPENSE.



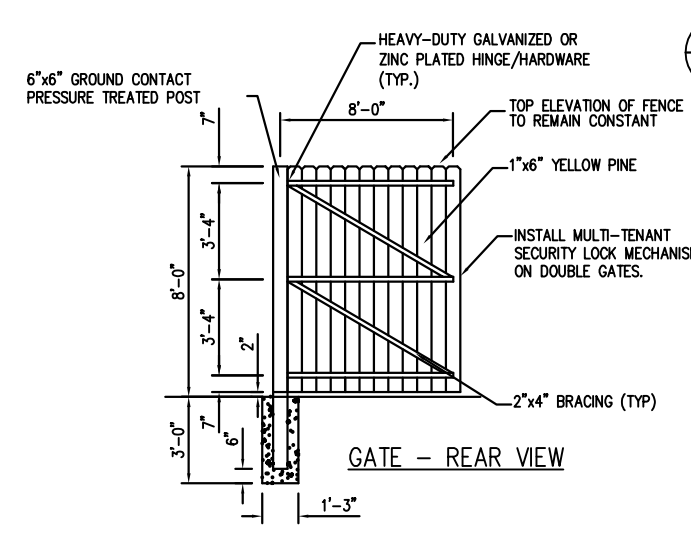
1A RENDERING OF MONOPINE
 C4 SCALE: NTS



WOOD FENCE - FRONT VIEW

WOOD FENCE - REAR VIEW

WOOD FENCE - PLAN VIEW

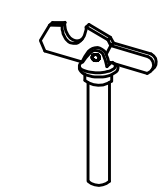


2 WOODEN SECURITY FENCE GATE
 C4 SCALE: NTS

1 WOODEN SECURITY FENCE
 C4 SCALE: NTS

FENCE NOTES

- POSTS TO SET IN 3000 PSI (MIN.) CONCRETE. BOTTOM OF CONCRETE TO BE 6" MIN. FROM BOTTOM OF POST.
- PROVIDE TWO GATE KEEPER HOLD OPEN DEVICES FOR SWING GATES. GATE KEEPERS TO ALLOW GATES TO OPEN APPROX. 150 DEGREES. SEE DETAIL ON THIS SHEET.

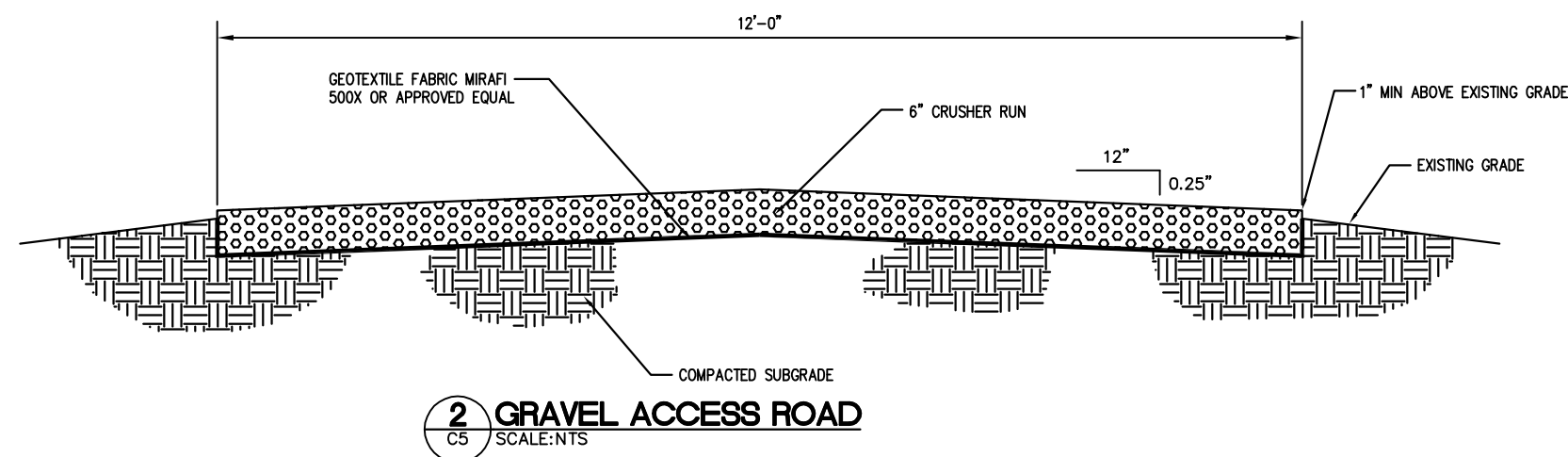
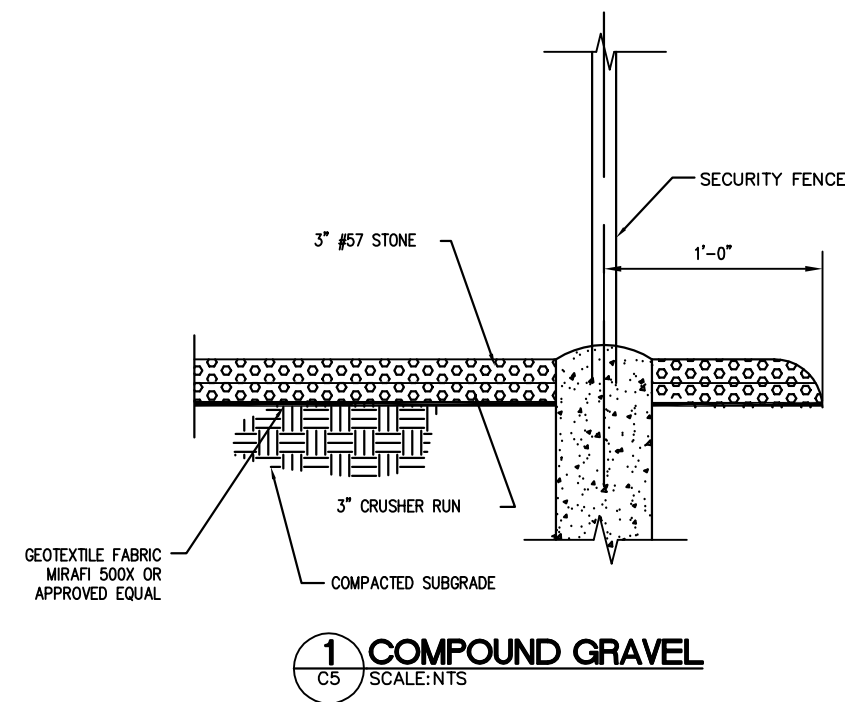


3 GATE KEEPER DETAIL TO HOLD GATES OPEN
 C4 SCALE: NTS

DATE	REVISION
12/11/12	ISSUED FOR OWNER'S REVIEW
12/17/12	ISSUED FOR ZONING AND PERMITTING
01/04/13	REVISED ACCESS ROAD AND EASEMENT

PROJECT NUMBER:
 12049.010
 SHEET CONTENTS:
TOWER ELEVATION, AND FENCE DETAILS

SHEET NUMBER:
C4

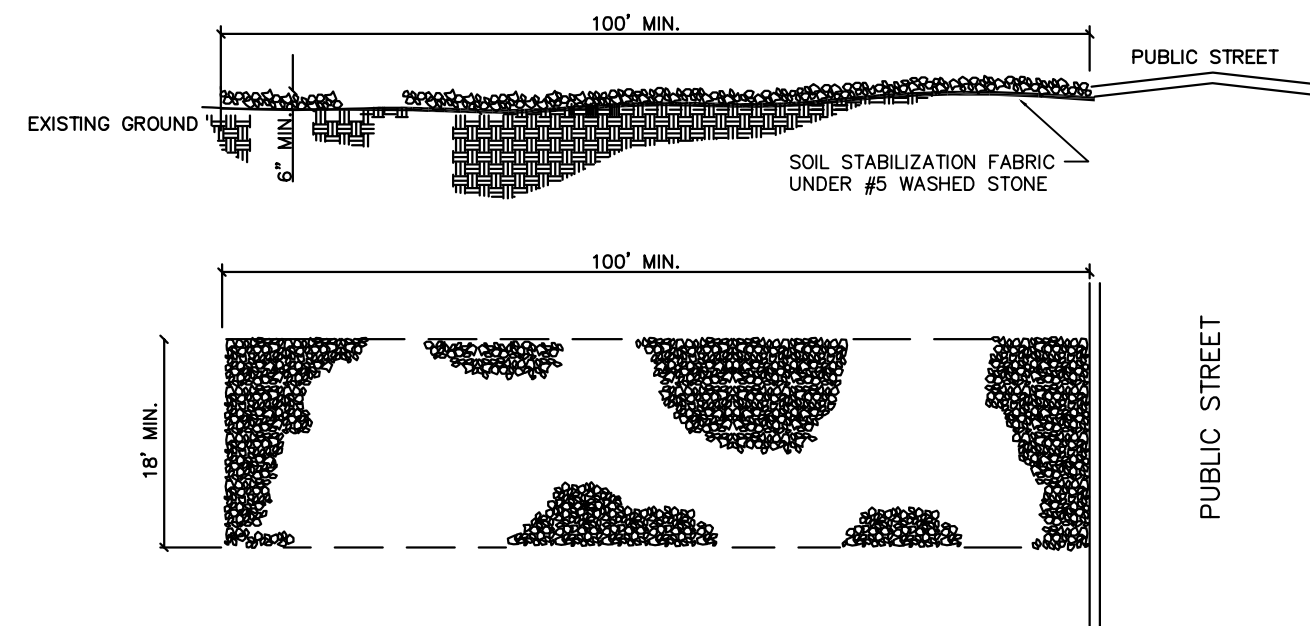


SILT FENCE NOTES:

- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- THE TRENCH SHOULD BE A MINIMUM OF 6 INCHES DEEP AND ALLOW FOR THE SILT FENCE TO BE LAID IN THE GROUND AND BACKFILLED.
- SILT FENCE SHOULD BE SECURELY FASTENED TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSED OF IN AN APPROVED SPOIL SITE.
- SILT FENCE SHALL BE A MINIMUM HEIGHT OF 30" MEASURED FROM THE EXISTING OR GRADED GROUND.
- SILT FENCE SHALL BE BURLAP, POLYPROPYLENE FABRIC, NYLON REINFORCED WITH POLYESTER NETTING OR OTHER MATERIAL (AS APPROVED & IF APPLICABLE). THE MULLEN BURST STRENGTH SHALL BE GREATER THAN 150 PSL. THE EDGES SHALL BE TREATED TO PREVENT UNRAVELING.

NOTES:

- A STABILIZED ENTRANCE PAD OF #5 WASHED STONE OR RAIL ROAD BALLAST SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
- FILTER FABRIC OR COMPACTED CRUSHER RUN STONE SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ANY SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
- WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET. WHEN WASHING IS REQUIRED, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT BASIN SEE STD. NO. 30.11B.
- CDOT MAY REQUIRE A STANDARD COMMERCIAL DRIVEWAY (STD. 10.24 & 10.25) TO ACCESS THE CONSTRUCTION SITE IF THE DRIVEWAY IS ON A THOROUGHFARE.



CITY OF CHARLOTTE
LAND DEVELOPMENT STANDARDS
INCLUDES CHARLOTTE ETJ

STABILIZED CONSTRUCTION ENTRANCE

STD. NO.	REV.
30.11A	

NOT TO SCALE



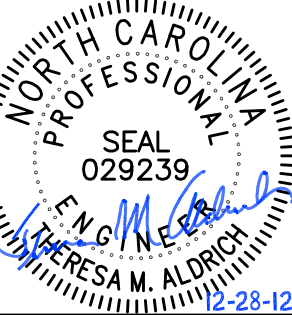
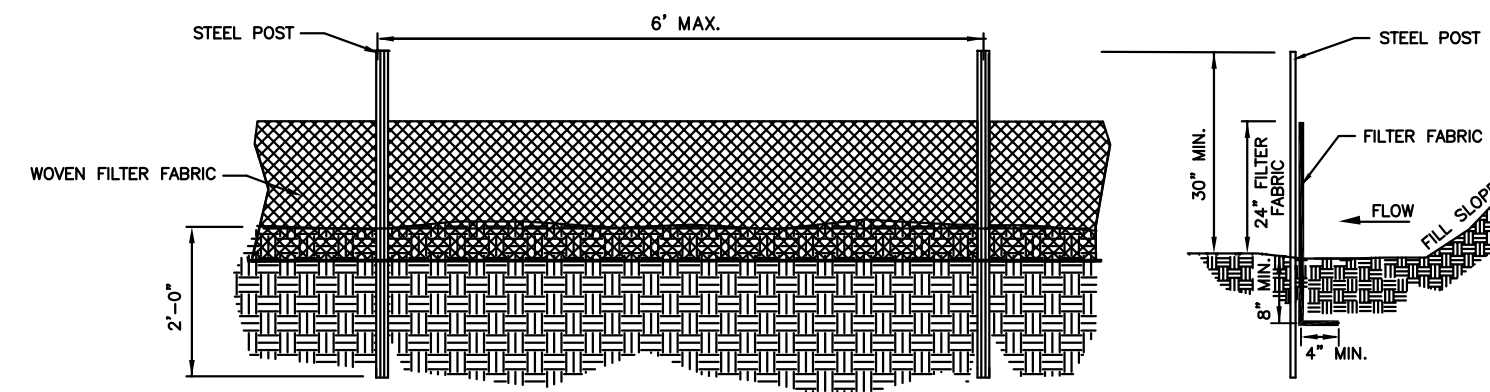
CITY OF CHARLOTTE
LAND DEVELOPMENT STANDARDS
INCLUDES CHARLOTTE ETJ

TEMPORARY SILT FENCE

STD. NO.	REV.
30.06A	4

NOT TO SCALE

4 SILT FENCE DETAIL
SCALE: NTS



BASE TRANSCIVER SITE
J.M. ROBINSON MIDDLE SCHOOL
CHARLOTTE, NC 28277
MECKLENBURG COUNTY
NORTH CAROLINA

BERKLEY GROUP LLC

DATE	REVISION
12/11/12	ISSUED FOR OWNER'S REVIEW
12/17/12	ISSUED FOR ZONING AND PERMITTING
12/28/12	ISSUED FOR CONSTRUCTION

PROJECT NUMBER:
12049.010
SHEET CONTENTS:
SITE DETAILS

SHEET NUMBER:
C5

GENERAL CONSTRUCTION NOTES:

1. THE FACILITY IS AN UNOCCUPIED WIRELESS FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK WILL INCLUDE PROVIDING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND OWNER ASSUME NO RESPONSIBILITY AS TO SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY, DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS WILL VISIT THE JOB SITE AND BE 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.
5. WRITTEN AUTHORIZATION IS REQUIRED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
6. PRIOR TO SITE EXCAVATION, CONTRACTOR SHALL LOCATE EXISTING SERVICES. DAMAGE CAUSED TO EXISTING SERVICES SHALL BE REPAIRED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
7. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
8. ALL WORK PERFORMED AND MATERIALS INSTALLED WILL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES INCLUDING THE 2009 NC BUILDING CODE, 2008 NEC, AND 2006 IRC WITH NC AMENDMENTS (OR LATEST APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION). THE CONTRACTOR WILL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. 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.
9. THE GENERAL CONTRACTOR WILL SUPERVISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE OWNER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS WILL BE INCLUDED AS PART OF THE WORK.
11. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLAT OF THE SURVEY DRAWING, WILL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR WILL RELY SOLELY ON THE PLAT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND WILL 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 WILL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.
12. COORDINATE WORK WITH LOCAL UTILITY COMPANY AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS. PROVIDE TRENCHING AND BACKFILL, AND PAY ALL UTILITY FEES UNLESS NOTED OTHERWISE. THE WORK WILL INCLUDE PROVIDING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
13. BEFORE PURCHASING EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL CONTACT THE POWER COMPANY AND GET IN WRITING THE MAXIMUM SHORT CIRCUIT CURRENT THE POWER COMPANY IS FURNISHING TO THE POINT OF SERVICE. ALL EQUIPMENT SHALL BE RATED AND COORDINATED TO NO LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT PROVIDED BY POWER COMPANY, WITH A MINIMUM SHORT CIRCUIT RATING OF 10,000 AMPS.

SERVICE ROUTING NOTES: (DWG E2)

1. CONTRACTOR SHALL TERMINATE THE POWER CABLES AT THE UTILITY METER LOCATED AT THE METER CENTER. COORDINATE EXACT METER BASE TYPE AND REQUIREMENTS WITH LOCAL UTILITY.
2. CONDUIT LINES SHALL HAVE A CONTINUOUS SLOPE DOWNWARD AND AWAY FROM THE EQUIPMENT TO THE PROPERTY LINE SO THAT WATER WILL FLOW AWAY FROM THE EQUIPMENT. TRENCHES SHALL BE EXCAVATED ALONG STRAIGHT LINES BEFORE CONDUITS ARE LAID SO THAT THE ELEVATION CAN BE ADJUSTED, IF NECESSARY, TO AVOID UNSEEN OBSTRUCTIONS. MANUFACTURED BENDS SHALL HAVE A MINIMUM RADIUS OF 36" FOR CONDUITS.
3. ALL CONDUITS SHALL BE SEALED WEATHER TIGHT ON INTERIOR AND EXTERIOR OF EQUIPMENT TO PREVENT MOISTURE INFILTRATION. SEALANTS SHALL BE IDENTIFIED FOR USE WITH THE CABLE INSULATION SHIELD OR OTHER COMPONENTS.
4. CELLULAR EQUIPMENT SHELTER SHALL BE FURNISHED BY RESPECTIVE CARRIER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL OBTAIN SHELTER DRAWINGS AND SPECIFICATIONS TO VERIFY EXACT INSTALLATION DETAILS AND REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY ADDRESSED WITHIN THESE DRAWINGS.
5. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES IN CONDUIT RUNS AT EACH OCCURRENCE WHERE EXCEEDING 360 DEGREES IN TOTAL BENDS OR 300' IN LENGTH AT A CONVENIENT INTERMEDIATE LOCATION. PULL BOXES SHALL BE SIZED PER NEC 370.
6. ON SPARE CONDUITS, PROVIDE 2 PULL STRINGS SECURELY FASTENED AT EACH END OF THE CONDUITS. PULL STRINGS SHALL BE 200LB TEST POLYETHYLENE CORD. PROVIDE CAP ON END OF THE CONDUITS AND MARK AS SHOWN ON THE SERVICES ROUTING PLAN.
7. MAINTAIN MINIMUM BENDING RADIUS FOR CONDUIT INSTALLATIONS PER CONDUIT/FIBER MANUFACTURER RECOMMENDATIONS.
8. REFERENCE E4 FOR ONE-LINE, CONDUIT AND WIRE SIZE, AND SPECIFICATIONS.
9. PROVIDE MINIMUM OF 36 INCHES WORK CLEARANCE IN FRONT OF EQUIPMENT AND EQUIPMENT RACKS.
10. WARNING TAPE SHALL BE PLACED IN TRENCHES AND SHALL READ EITHER "UTILITIES" OR "ELECTRIC".
11. ENDS OF WARNING TAPE SHALL EXTEND 6" MINIMUM ABOVE FINAL GRADE.
12. ALL CONDUIT SHALL BE SCHEDULE 40 OR 80 PVC UNLESS NOTED OTHERWISE. EXPOSED CONDUIT SHALL BE UV RESISTANT.

GROUNDING NOTES: (DWG E3)

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION MAY VARY ACCORDING TO SITE CONDITIONS. VERIFY EXACT EQUIPMENT GROUNDING WITH EQUIPMENT MANUFACTURER AND OWNER.
2. GROUND RODS SHALL BE DRIVEN AT 10'-0" INTERVALS OF THE GROUND RING OR RADIALS. GROUND RODS SHALL NOT BE PLACED CLOSER THAN 6'-0" APART PER NEC 250-56.
3. INSTALL GROUND CONDUCTORS AND GROUND RODS A MINIMUM OF 24" (MAXIMUM 36") FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE; ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE (FENCE AND TOWER) OR MECHANICAL TYPE (2-HOLE LUGS WITH MECHANICAL CONNECTORS AT EQUIPMENT). ALL HARDWARE SHALL BE STAINLESS STEEL WITH LOCKWASHERS.
5. CLEAN EXOTHERMIC WELD CONNECTIONS ON GALVANIZED SURFACES THOROUGHLY AND COVER W/ (2) TWO COATS SHERWIN WILLIAMS GALVITE PAINT B350WS (OR EQUIVALENT).
6. ALL ELECTRICAL AND MECHANICAL GROUND CONNECTIONS SHALL BE TO BARE BRIGHT SURFACES AND HAVE ANTI-OXIDATION COMPOUND APPLIED TO CONNECTION (THOMAS AND BETTS KOPR-SHIELD).
7. THE MINIMUM BEND RADIUS FOR GROUND CONDUCTORS SHALL BE 8 INCHES FOR #6 AWG WIRE AND 12 INCHES FOR #2 AWG AND GREATER WIRE.
8. ITEMS TO BE BONDED TO THE GROUND RING INCLUDE BUT ARE NOT LIMITED TO: CORNER FENCE POSTS AND FENCE POSTS WITHIN 6' OF GROUND RING, GROUND BUS BARS, EQUIPMENT CABINETS, EQUIPMENT RACKS, CABLE SUPPORT STRUCTURES, TOWER, GENERATOR, ANY OTHER METAL OBJECTS WITHIN 6' OF GROUND RING.
9. GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (3 MINIMUM).
12. GROUND COAXIAL RF CABLES USING GROUND KITS TO GROUND BARS AT TOP, MIDDLE, AND BOTTOM OF TOWER, SEE DRAWING E7 FOR DETAILS.
13. ALL EXPOSED GROUND LEADS SHALL BE ROUTED INSIDE 1/2" (MIN.) PVC OR FLEXIBLE PVC CONDUIT (NON-METALLIC), TO 18" (MIN.) BELOW GRADE.

ABBREVIATIONS			
A, AMP	AMPERES	LTG	LIGHTING
ABT	ABOUT	MIGB	MASTER ISOLATED GROUND BAR
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	MTD	MOUNTED
BCW	BARE COPPER WIRE	N	NEUTRAL
BLDG	BUILDING	NEC	NATIONAL ELECTRICAL CODE
BTS	BASE TRANSMISSION SYSTEM	NO	NUMBER
C	CONDUIT	NTS	NOT TO SCALE
CAT	CATALOG	PPC	POWER PROTECTION CABINET
CIGBE	COAX ISOLATED GROUND BAR	RECEPT	RECEPTACLE
DWG	DRAWING(S)	RGS	RIGID GALVANIZED STEEL
EQPT	EQUIPMENT	REQD	REQUIRED
EXIST	EXISTING	SCH	SCHEDULE
FBO	FURNISHED BY OTHERS	TYP	TYPICAL
FWE	FURNISHED W/ EQUIPMENT	UG	UNDERGROUND
GFI	GROUND FAULT INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
GND	GROUND	V	VOLT(S)
GPS	GLOBAL POSITIONING SYSTEM	WP	INDICATES WEATHERPROOF
JB	JUNCTION BOX	XFMR	TRANSFORMER

ELECTRICAL LEGEND

	DRAWING NOTE REFERENCE (NOTES BY SYMBOL)
	5/8" x 8'-0" LONG COPPER CLAD STEEL GROUND ROD
	5/8" x 8'-0" LONG COPPER CLAD STEEL GROUND ROD IN INSPECTION SLEEVE
	EXOTHERMIC WELD CONNECTION
	MECHANICAL CONNECTION
	METER
	CIRCUIT BREAKER
	GENERATOR
	GENERATOR RECEPTACLE
	DISCONNECT SWITCH
	GROUND CONDUCTOR, TYPE AND SIZE AS NOTED, 18"-24" BELOW GRADE
	EXISTING UNDERGROUND GROUND CONDUCTOR
	UNDERGROUND ELECTRIC POWER CONDUIT, TYPE AND SIZE AS NOTED
	UNDERGROUND TELCO CONDUIT, TYPE AND SIZE AS NOTED
	OVERHEAD ELECTRIC POWER LINE, TYPE AND SIZE AS NOTED
	OVERHEAD TELCO LINE, TYPE AND SIZE AS NOTED

DETAIL REFERENCE KEY



BASE TRANSCIVER SITE
J.M. ROBINSON MIDDLE SCHOOL
6607 BALLANTYNE COMMONS PARKWAY
CHARLOTTE, NC 28277
MECKLENBURG COUNTY
NORTH CAROLINA



DATE	REVISION
12/11/12	ISSUED FOR OWNER'S REVIEW
12/17/12	ISSUED FOR ZONING AND PERMITTING
12/28/12	ISSUED FOR CONSTRUCTION



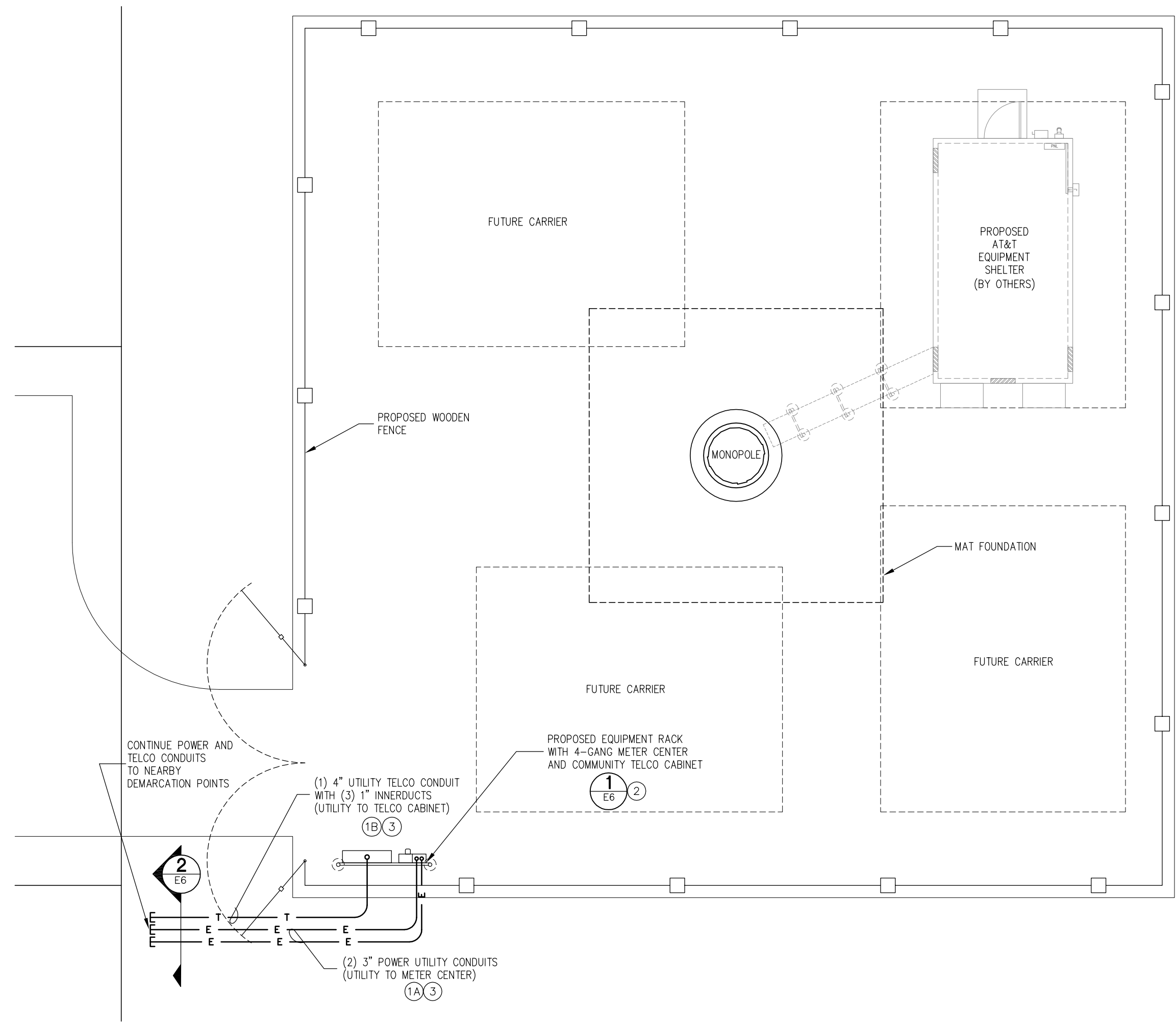
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GENERAL NOTES

- REFER TO DRAWING E1 FOR GENERAL NOTES PERTAINING TO THIS DRAWING.
- REFER TO ONE LINE DIAGRAM (1/E4) FOR CONDUCTOR SIZES, EQUIPMENT RATINGS, AND ADDITIONAL INFORMATION.
- PROVIDE SIGNAGE AS REQUIRED BY OWNER AND LOCAL JURISDICTION INCLUDING BUT NOT LIMITED TO:
(1) E-911 STREET ADDRESS
(2) BERKLEY GROUP SITE NAME, NUMBER AND ADDRESS
VERIFY EXACT SIZE AND REQUIREMENTS WITH OWNER.
- CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING AND PENETRATION LOCATIONS WITH CONSTRUCTION MANAGER AND EQUIPMENT MANUFACTURER/SPECIFICATIONS.

NOTES BY SYMBOL *O*

- ROUTE TWO (2) 3" POWER CONDUITS TO POWER DEMARCATION POINT AS DIRECTED BY LOCAL UTILITY. COORDINATE CONNECTION OF SERVICES WITH LOCAL UTILITY COMPANY.
- ROUTE ONE (1) 4" TELCO CONDUIT TO TELCO DEMARCATION POINT AS DIRECTED BY LOCAL UTILITY. COORDINATE CONNECTION OF SERVICES WITH LOCAL UTILITY COMPANY.
- UTILITY RACK WITH 4-GANG METER CENTER AND TELCO CABINET, FURNISHED AND INSTALLED BY CONTRACTOR.
- FIELD VERIFY EXACT LOCATION OF UTILITY SERVICES AND ROUTE CONDUITS AS REQUIRED TO MAKE CONNECTIONS. COORDINATE EXACT ROUTING AND CONNECTION OF CONDUITS WITH EXISTING FIELD CONDITIONS, OWNER, AND LOCAL UTILITIES.



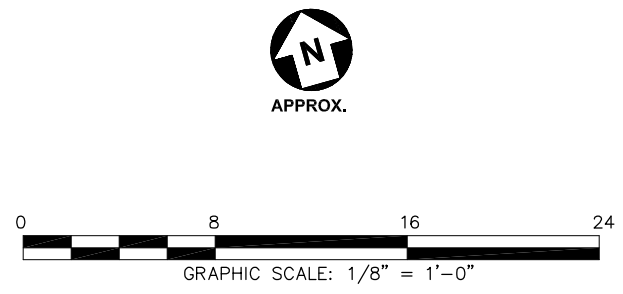
1 SERVICES ROUTING PLAN
SCALE: 1/8" = 1'-0"

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SHEET CONTENTS:
SERVICES ROUTING PLAN
SHEET NUMBER:
E2



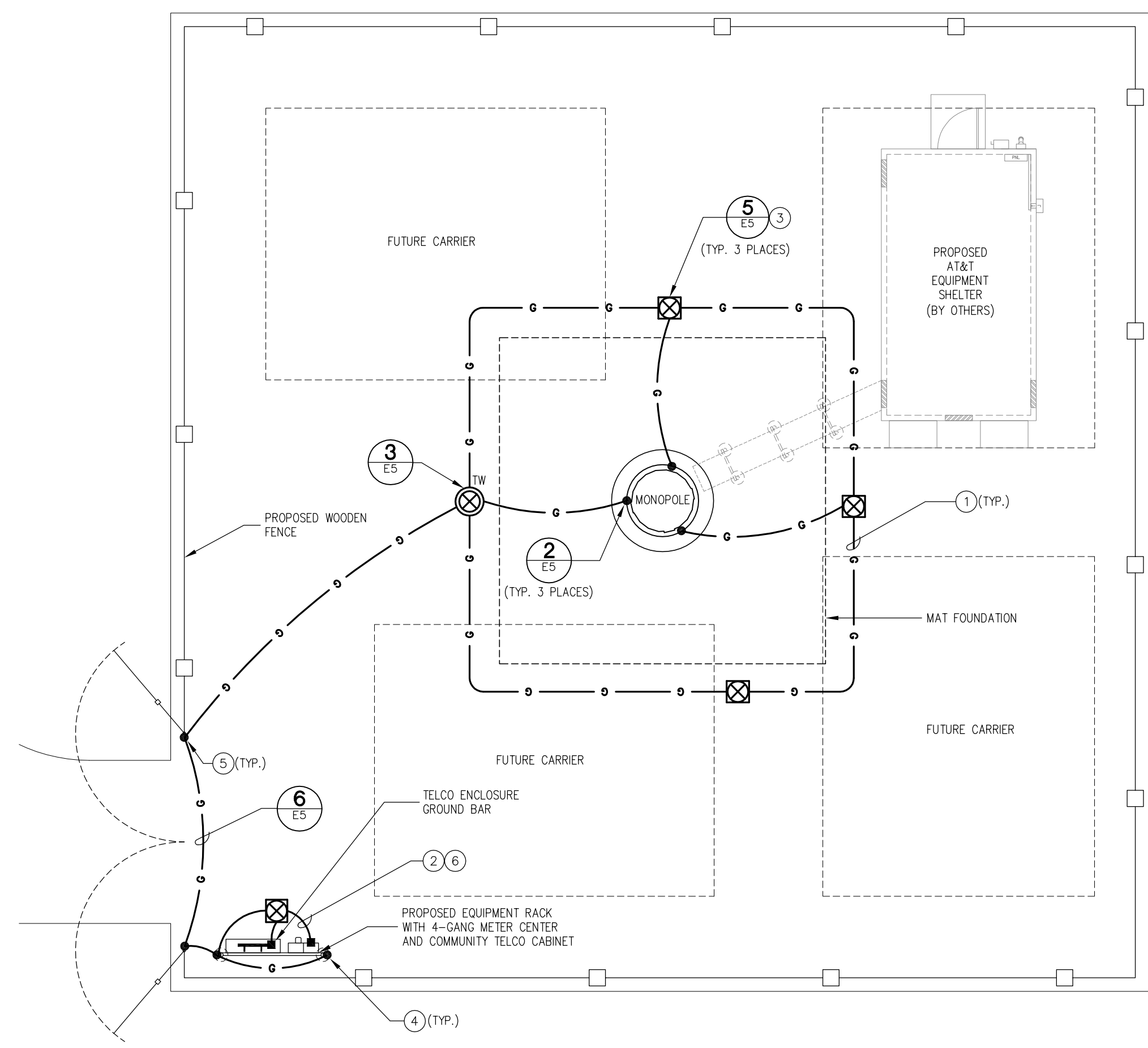


GENERAL NOTES

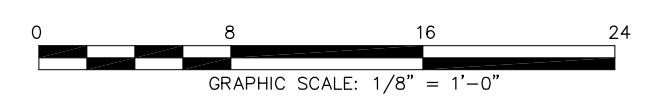
1. REFER TO DRAWING E1 FOR GENERAL NOTES PERTAINING TO THIS DRAWING.

NOTES BY SYMBOL

- GROUNDING SYSTEM SHALL BE COMPRISED OF #2 AWG SOLID TINNED BARE COPPER CONDUCTOR, UNLESS NOTED OTHERWISE, BURIED AT 18-24" BELOW FINISHED GRADE. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, UNLESS NOTED OTHERWISE.
- GROUNDING ELECTRODE, PROVIDE #2/0 GREEN INSULATED STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR TO METER CENTER NEUTRAL-TO-GROUND BOND PER NEC 250. REFER TO ONE-LINE DIAGRAM ON E4.
- COORDINATE EXACT PLACEMENT OF GROUND RODS WITH FOUNDATION PROVIDED (i.e. SHIFT TO OUTSIDE OF MAT IF REQUIRED).
- BOND LEGS OF UTILITY RACK TO GROUNDING SYSTEM WITH #2 AWG SOLID TINNED BARE COPPER CONDUCTOR USING EXOTHERMIC WELD.
- BOND TO FENCE POST USING EXOTHERMIC WELD.
- EXPOSED GROUNDING CONDUCTORS SHALL BE ROUTED INSIDE PVC SLEEVES FROM POINT OF CONNECTION TO 18" (MIN.) BELOW FINISHED GRADE.



1 SITE GROUNDING PLAN
E3 SCALE: 1/8" = 1'-0"



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SITE GROUNDING PLAN

SHEET NUMBER:
E3



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GENERAL NOTES

- CONTRACTOR SHALL COORDINATE INCOMING SERVICES WITH LOCAL UTILITIES PRIOR TO TRENCHING.
- ALL CONDUCTORS SHALL BE COPPER, 75 DEGREES C RATED, AND CONDUCTOR INSULATION SHALL BE THWN OR THHN.
- ALL TERMINATIONS SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75°C RATED CONDUCTORS OPERATING AT 75°C.
- GROUND FAULT PROTECTION REQUIRED FOR UTILITY RECEPTACLES.
- SERVICE NEUTRAL SHALL BE GROUNDED AT ONE LOCATION ONLY.
- WHITE/NEUTRAL, GREEN/GROUND SHALL BE MAINTAINED THROUGHOUT THE SITE ELECTRICAL SYSTEM (TAPE WILL NOT BE ACCEPTABLE).
- EQUIPMENT LOCATED OUTSIDE OR EXPOSED TO MOISTURE SHALL BE NEMA 3R RATED.
- CONTRACTOR SHALL USE SCHEDULE 40 OR 80 PVC CONDUIT THROUGHOUT, UNLESS OTHERWISE NOTED.
- ALL NEWLY INSTALLED EQUIPMENT SHALL BE RATED AT 22K AC MINIMUM. HIGHER RATINGS SHALL BE REQUIRED WHERE AVAILABLE. FAULT CURRENT EXCEEDS THIS VALUE. EXACT FAULT CURRENT AVAILABLE SHALL BE COORDINATED WITH LOCAL UTILITY BASED ON EXACT CONDITIONS (XFMR SIZE, PERCENT IMPEDANCE, LENGTH OF CONDUCTORS, ETC).

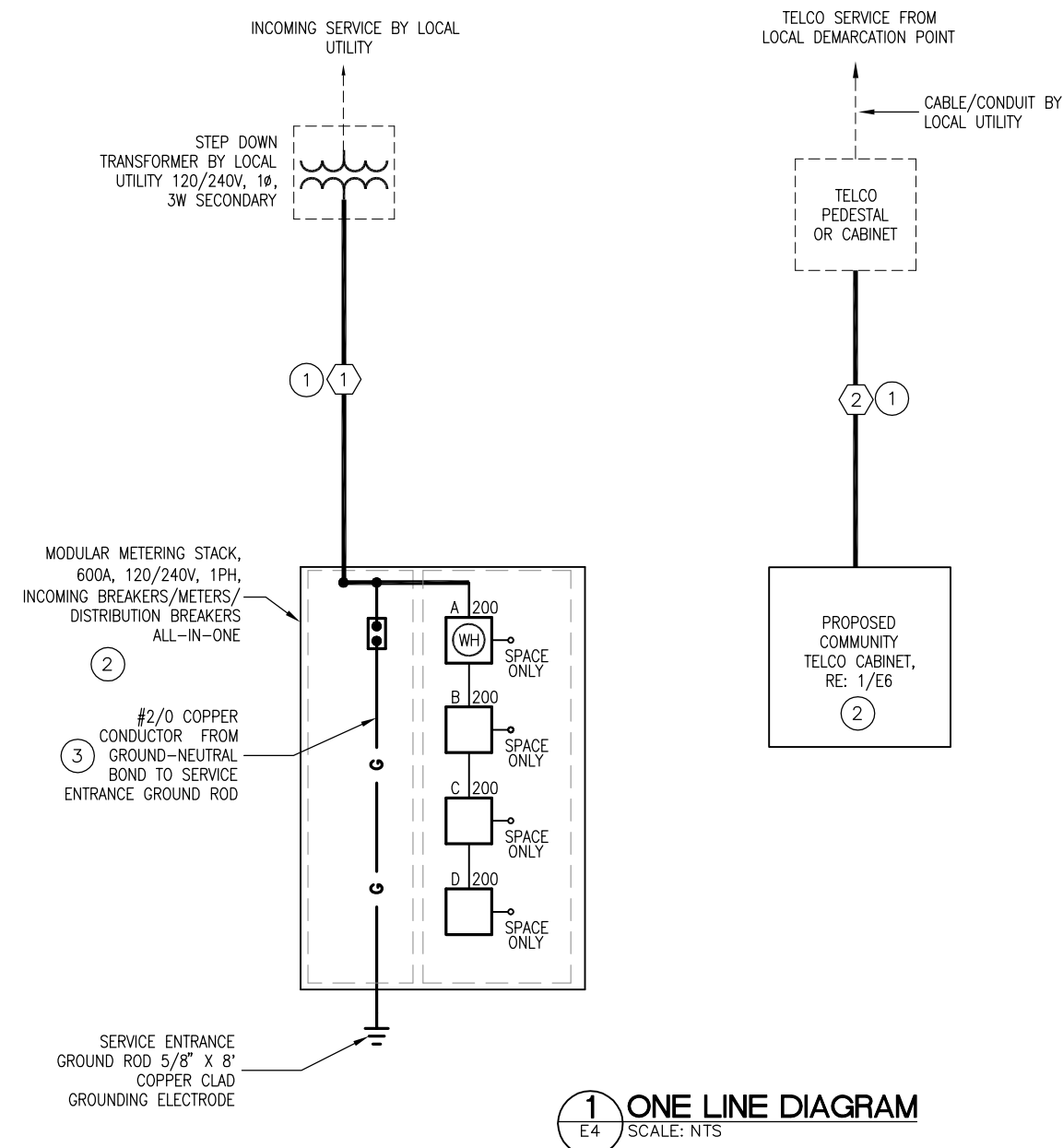
CABLE AND CONDUIT SCHEDULE													
MARK	CONDUIT			WIRES EACH CONDUIT			EQUIPMENT		FROM	TO	RESPONSIBILITY	REMARKS	
	QTY	SIZE	TYPE	QTY	SIZE	GROUND	VOLTS	AMPS					SUB. CAT.
①	2	3"	PVC	3	350	KCMIL	240	600	AC POWER	XFMR/DEMARC	METER SERVICE DISC	UTILITY/CONTRACTOR	INCOMING POWER BY LOCAL UTILITY
②	1	4"	PVC	WITH (3) 1" INNERDUCTS					TELCO	DEMARC	HOFFMAN BX	UTILITY	INCOMING TELCO BY LOCAL UTILITY

FAULT CURRENT SUMMARY TABLE			
FAULT LOCATION	AVAILABLE FAULT CURRENT (AMPS RMS SYMMETRICAL)		REMARKS
	SCA L-L	SCA L-N	
TRANSFORMER SECONDARY	13,021	19,533	ASSUMING INFINITE AVAILABLE ON PRIMARY
METER CENTER (22K AIC)	10,935	12,420	ASSUMING 40' INCOMING SERVICE CONDUCTORS

ASSUMING 50 KVA, 120/240V, 1 PHASE, 1.6% IMPEDANCE TRANSFORMER

ONE LINE DIAGRAM NOTES BY SYMBOL

- CONTRACTOR SHALL FURNISH AND INSTALL NEW CONDUITS AND CONDUCTORS FROM EQUIPMENT TO POWER AND TELCO DEMARCATION POINTS AS INDICATED. COORDINATE WITH LOCAL UTILITIES FOR CONNECTION OF SERVICES.
- CONTRACTOR SHALL PROVIDE METER CENTER, COMMUNITY TELCO CABINET, AND ASSOCIATED RACKS/CONDUITS. REFER TO E6 FOR RACK ELEVATION DETAILS AND EQUIPMENT SPECIFICATIONS.
- CONTRACTOR SHALL BOND NEUTRAL TO GROUND AT ONE LOCATION ONLY PER NEC 250 AND LOCAL CODE REQUIREMENTS.



① ONE LINE DIAGRAM
E4 SCALE: NTS

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ONE LINE DIAGRAM

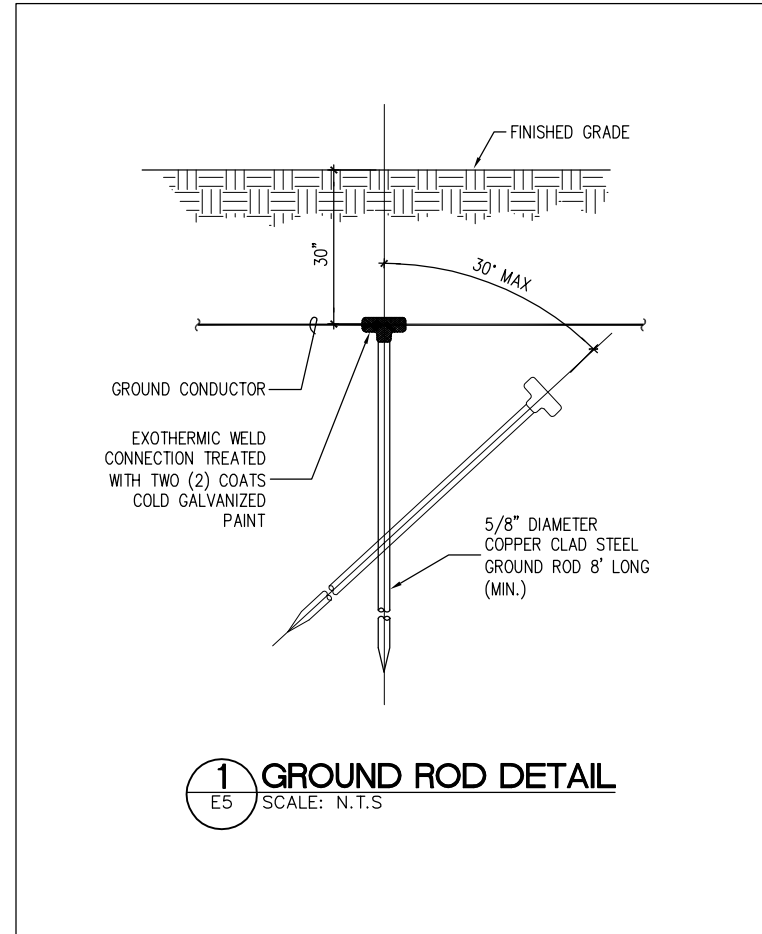
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E4



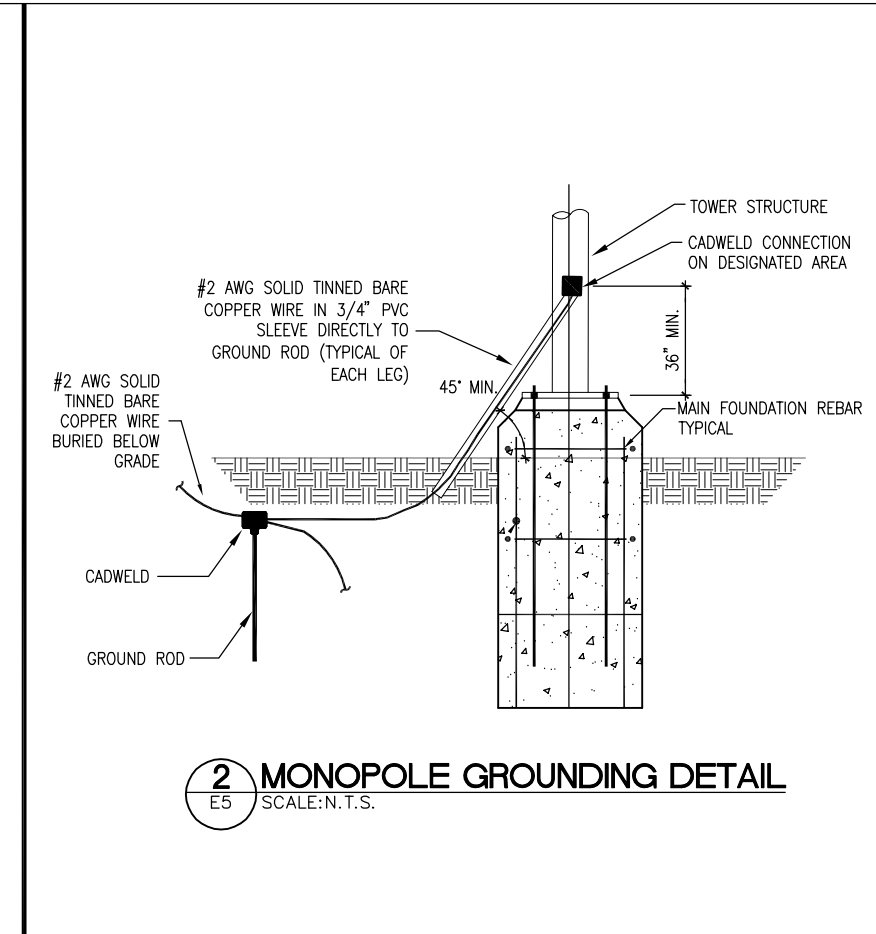
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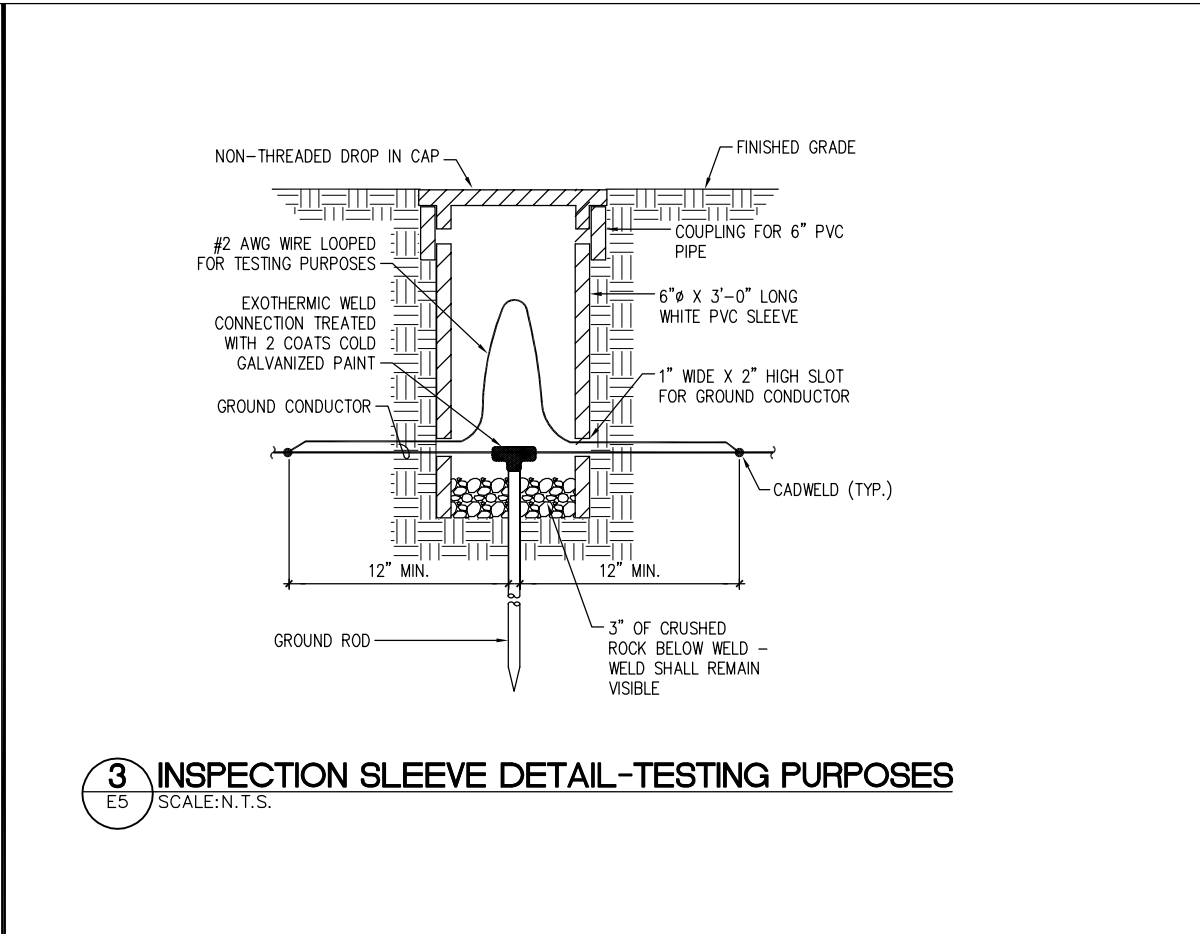
BERKLEY GROUP LLC



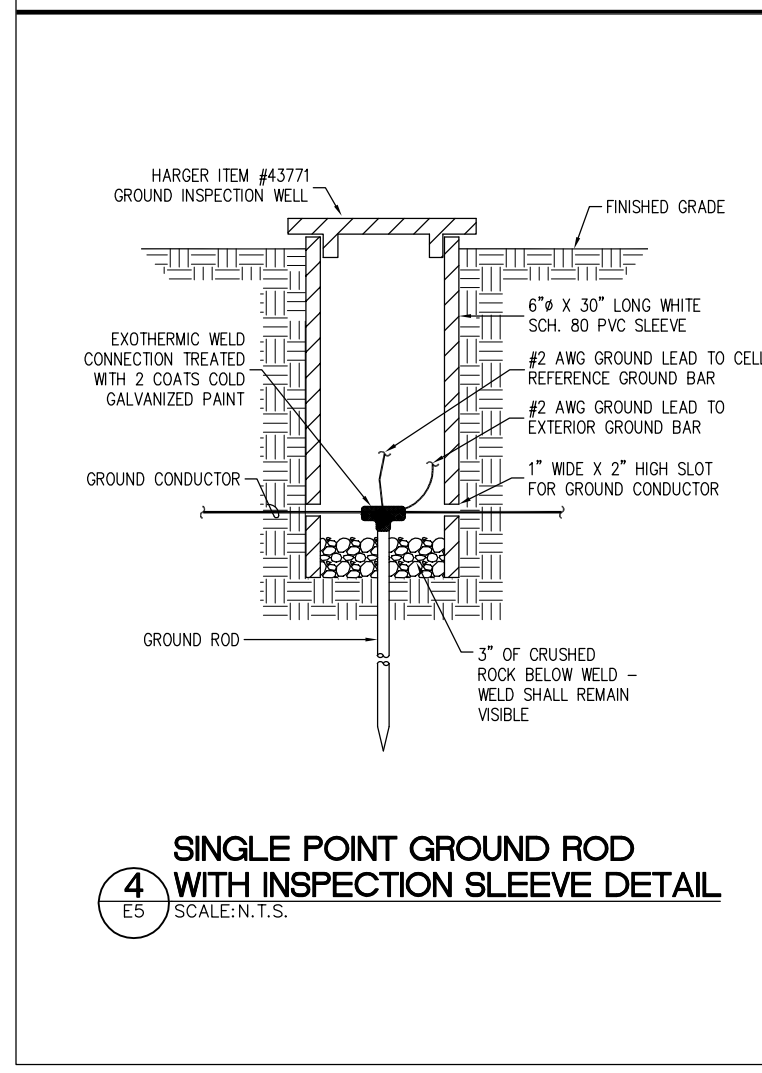
1 GROUND ROD DETAIL
E5 SCALE: N.T.S.



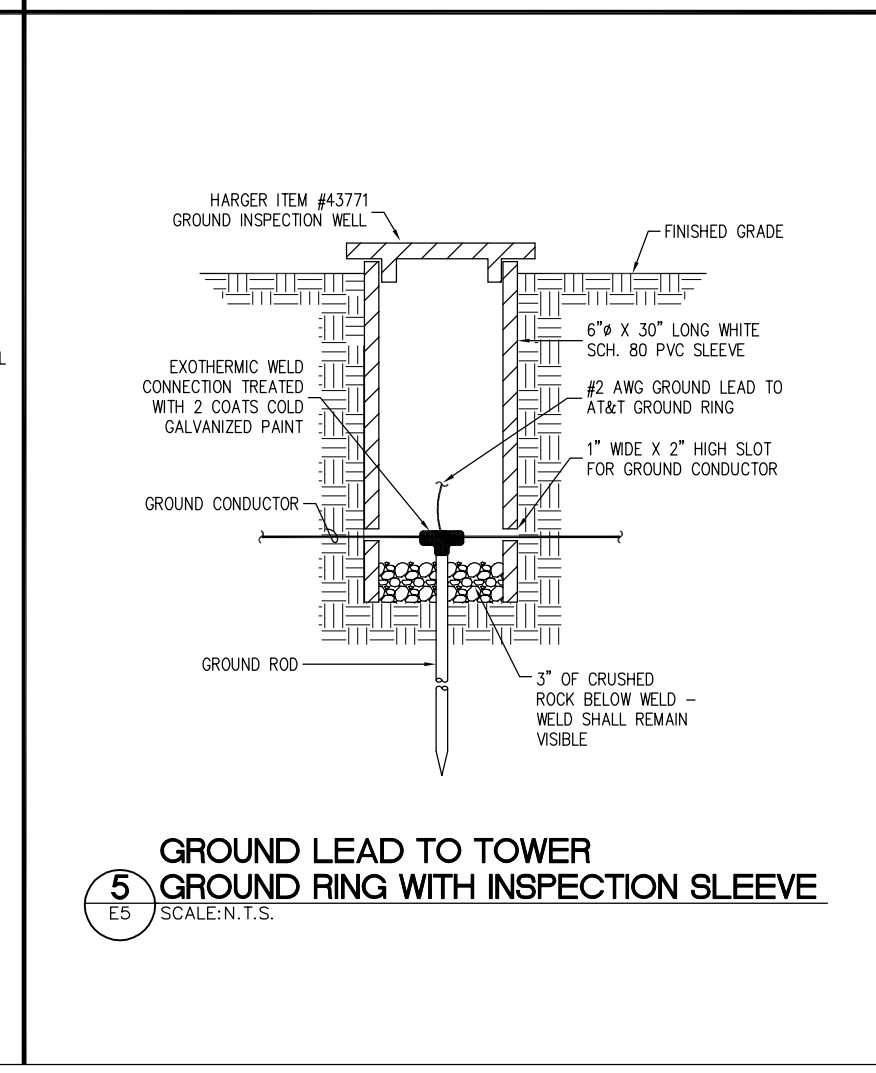
2 MONOPOLE GROUNDING DETAIL
E5 SCALE: N.T.S.



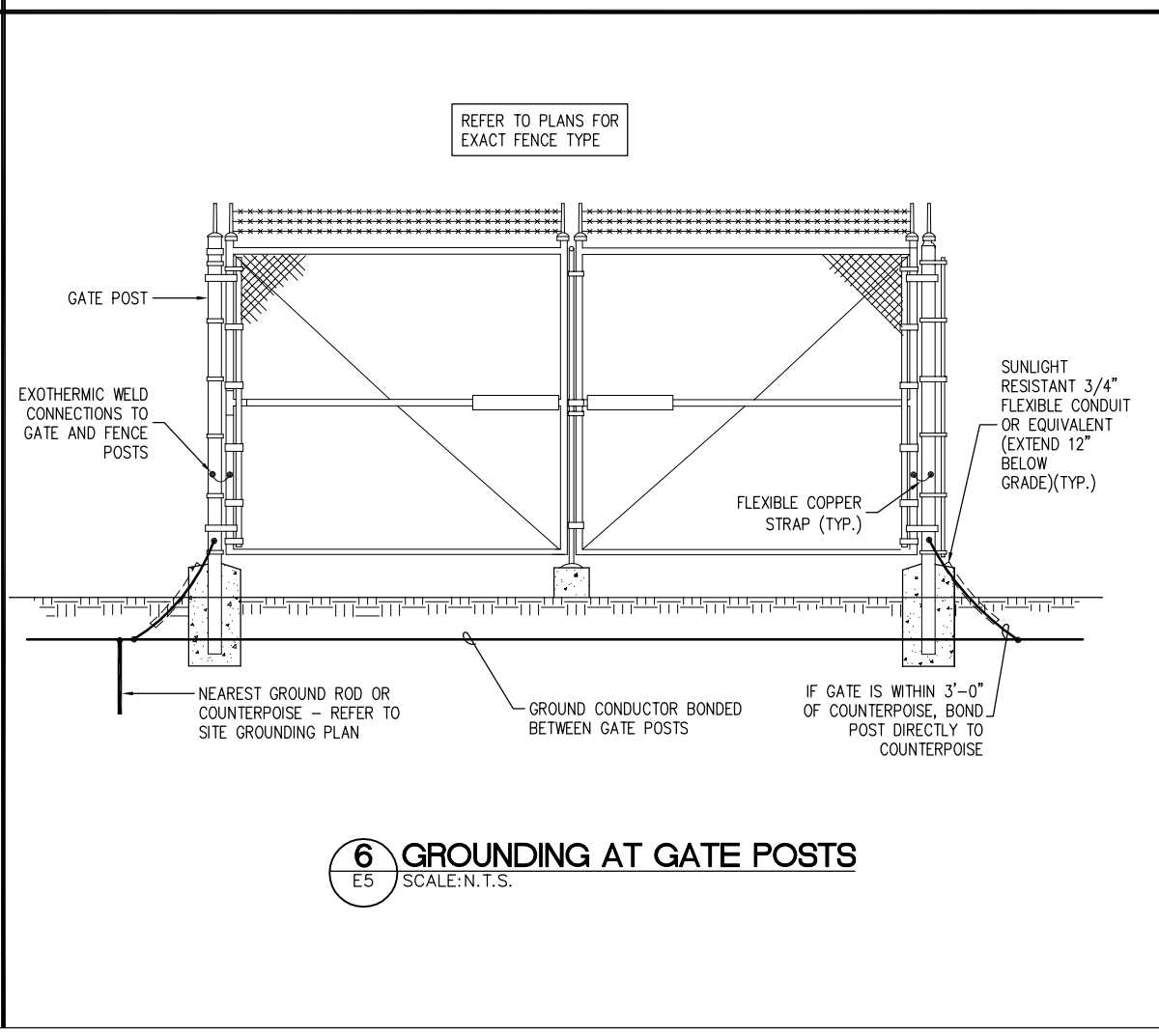
3 INSPECTION SLEEVE DETAIL - TESTING PURPOSES
E5 SCALE: N.T.S.



4 SINGLE POINT GROUND ROD WITH INSPECTION SLEEVE DETAIL
E5 SCALE: N.T.S.



5 GROUND LEAD TO TOWER GROUND RING WITH INSPECTION SLEEVE
E5 SCALE: N.T.S.



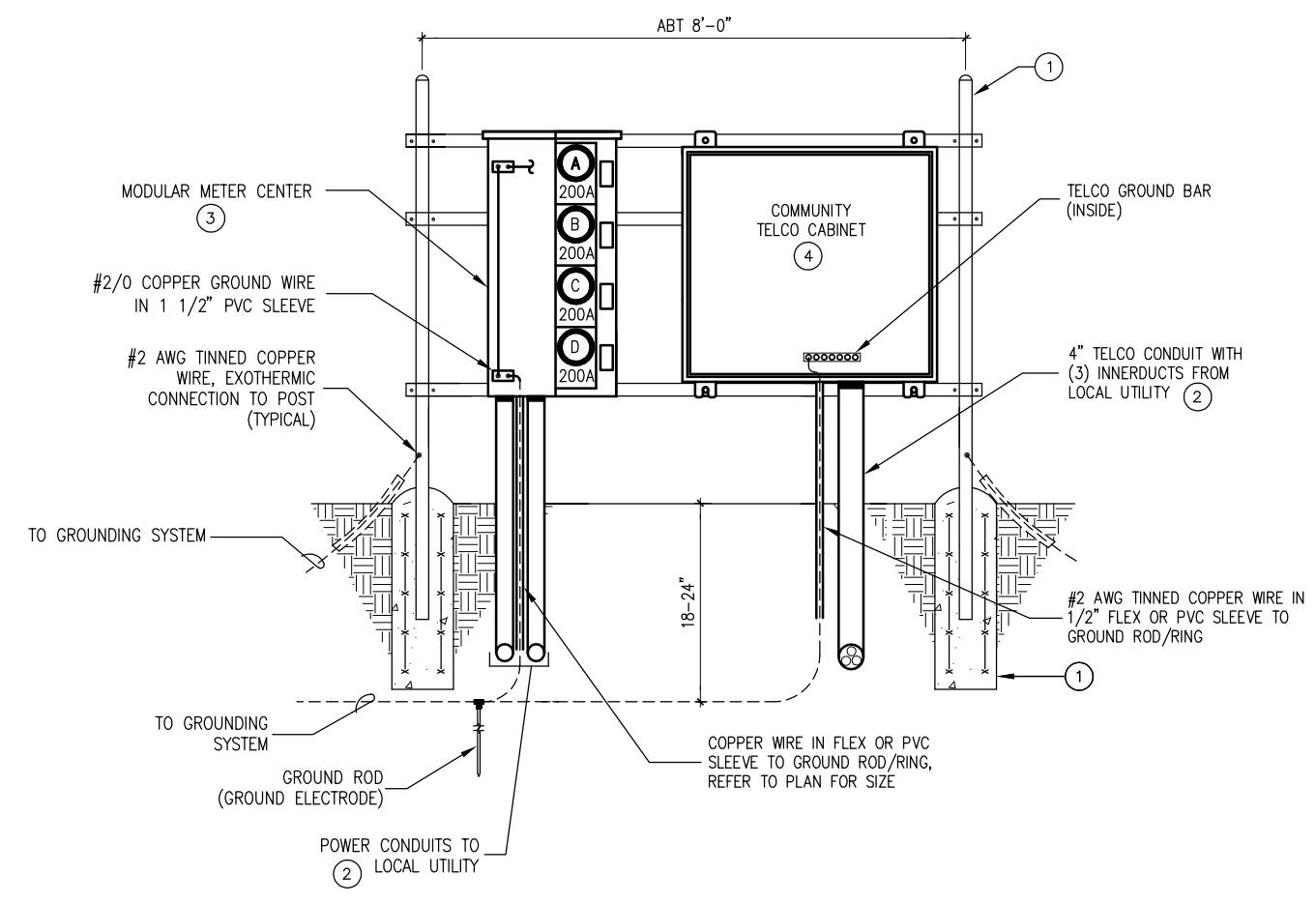
6 GROUNDING AT GATE POSTS
E5 SCALE: N.T.S.

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SHEET CONTENTS:
GROUNDING DETAILS

SHEET NUMBER:
E5



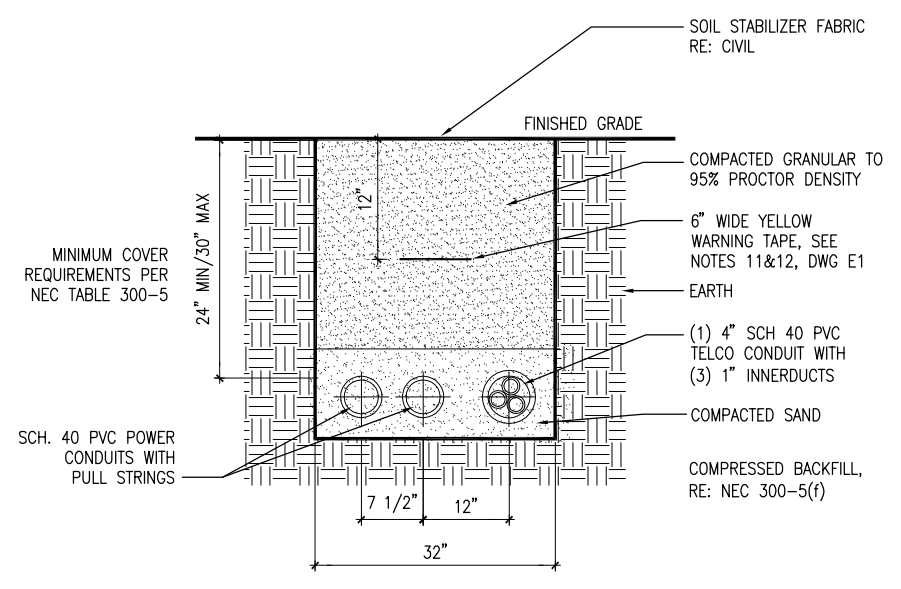
1 UTILITY RACK DETAIL
E6 SCALE: N.T.S.

GENERAL NOTES

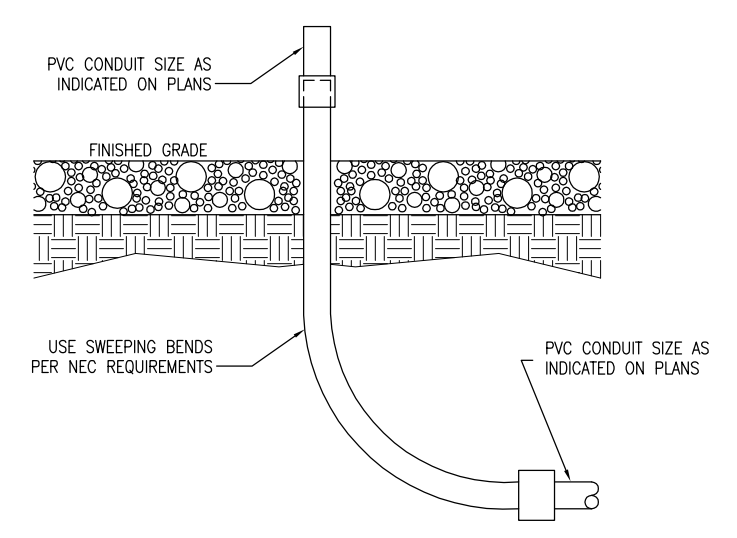
1. DIMENSIONS SHOWN ARE APPROXIMATE. EXACT DIMENSIONS MAY BE MODIFIED SLIGHTLY BASED ON EXACT EQUIPMENT OBTAINED, SITE CONDITIONS, AND OWNER PREFERENCES.
2. POWER EQUIPMENT SHALL BE SQUARE D, SIEMENS, CUTLER HAMMER, OR GENERAL ELECTRIC. ALL EQUIPMENT MUST BE OF ONE MANUFACTURER.
3. UNUSED CONDUITS SHALL BE SEALED TO PREVENT MOISTURE INSIDE CONDUITS. USED CONDUITS SHALL BE SEALED AFTER SERVICES HAVE BEEN RUN.

UTILITY RACK NOTES BY SYMBOL "O"

1. EQUIPMENT RACK SHALL BE APPROXIMATELY 8'-0" WIDE AND A MAXIMUM OF 6'-6" HIGH. POSTS SHALL BE 3" GALVANIZED STEEL PIPE WITH CAP. CONTRACTOR SHALL PROVIDE "END CAPS" ON HORIZONTAL UNISTRUT MEMBERS. CROSS MEMBERS SHALL BE UNISTRUT, ANCHORED TO POSTS WITH U-CLAMPS AND 3/8" STAINLESS STEEL BOLTS AND WASHERS. RACK FOUNDATION SHALL BE 1'-0" DIAMETER BY 3'-0" DEEP, CONCRETE REINFORCED WITH 6X6-W1.4XW1.4 WWF CAGE.
2. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR INSTALLATION OF INCOMING SERVICE CONDUCTORS.
3. PROVIDE MODULAR METERING MAIN SERVICE CENTER RATED FOR 120/240V, 600A, SINGLE PHASE, 3 WIRE, 22K AIC (MIN), NEMA 3R, WITH FOUR (4) 200A METER SOCKETS.
4. CONTRACTOR SHALL PROVIDE AND INSTALL TELCO CABINET, 48"X48"X12"D WITH GROUND BAR. COORDINATE EXACT REQUIREMENTS WITH OWNER/BERKLEY GROUP CONSTRUCTION MANAGER.



2 UTILITY TRENCH DETAIL
E6 SCALE: N.T.S.



3 CONDUIT TRANSITION DETAIL
E6 SCALE: N.T.S.

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UTILITY RACK
AND TRENCH DETAILS

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E6