WASHINGTON PARISH COMMUNICATION TOWER

WASHINGTON PARISH, LOUISIANA

CDBG OCD-DRU-KATRINA/RITA RECOVERY FUNDED PROJECT

OCD-DRU PROJECT NUMBER : ILTR-00092

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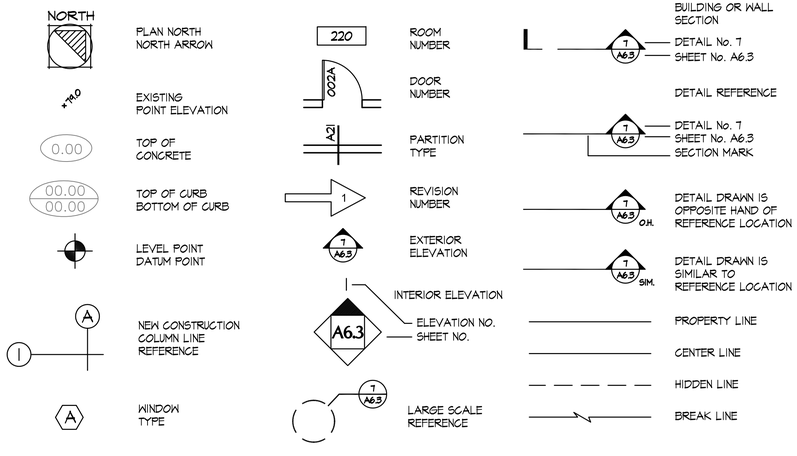
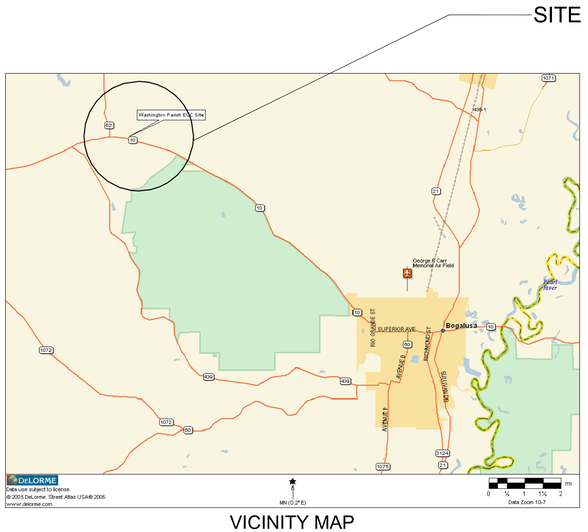
LEGEND:

SYMBOLS



ABBREVIATIONS

F.E. FIRE EXTINGUISHER
MIN. MINIMUM
M.O. MASONRY OPENING
O.H. OPPOSITE HAND
SIM. SIMILAR
TYP. TYPICAL
E.O.S.EDGE OF SLAB



VICINITY MAP
SEE SURVEY DRAWING

PROJECT INFORMATION:

INDUSTRIAL OCCUPANCY (NON-OCCUPIED EQUIPMENT SPACE)
TOTAL SQUARE FOOTAGE: 504 S.F.
SPRINKLED: WATERLESS SUPPRESSION SYSTEM
CONSTRUCTION TYPE:
IBC: TYPE II-B NON-COMBUSTABLE, UNPROTECTED
NFPA: TYPE II (0,0,0)

APPLICABLE CODES:

2009 IBC (INTERNATIONAL BUILDING CODE)
2009 NFPA 101 LIFE SAFETY CODE
1991 ADA ACCESSIBILITY GUIDELINES
2008 NATIONAL ELECTRIC CODE

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RCLC Project Number: 20909
Date Issued: 04-11-11
Drawn By: EMR
Checked By: EMR
Revisions:

WASHINGTON PARISH COMMUNICATIONS TOWER
DOLLAR ROAD
WASHINGTON PARISH, LOUISIANA

ERIC M. RILEY REG. NO. 7086 STATE OF LOUISIANA REGISTERED ARCHITECT
04-11-11

COVER SHEET

Sheet Number:
A0

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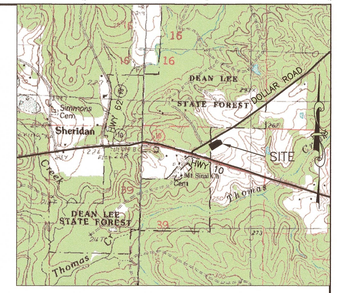
SECTION 39
T2S–R12E
GREENSBURG LAND DISTRICT
WASHINGTON PARISH, LOUISIANA

LEGEND

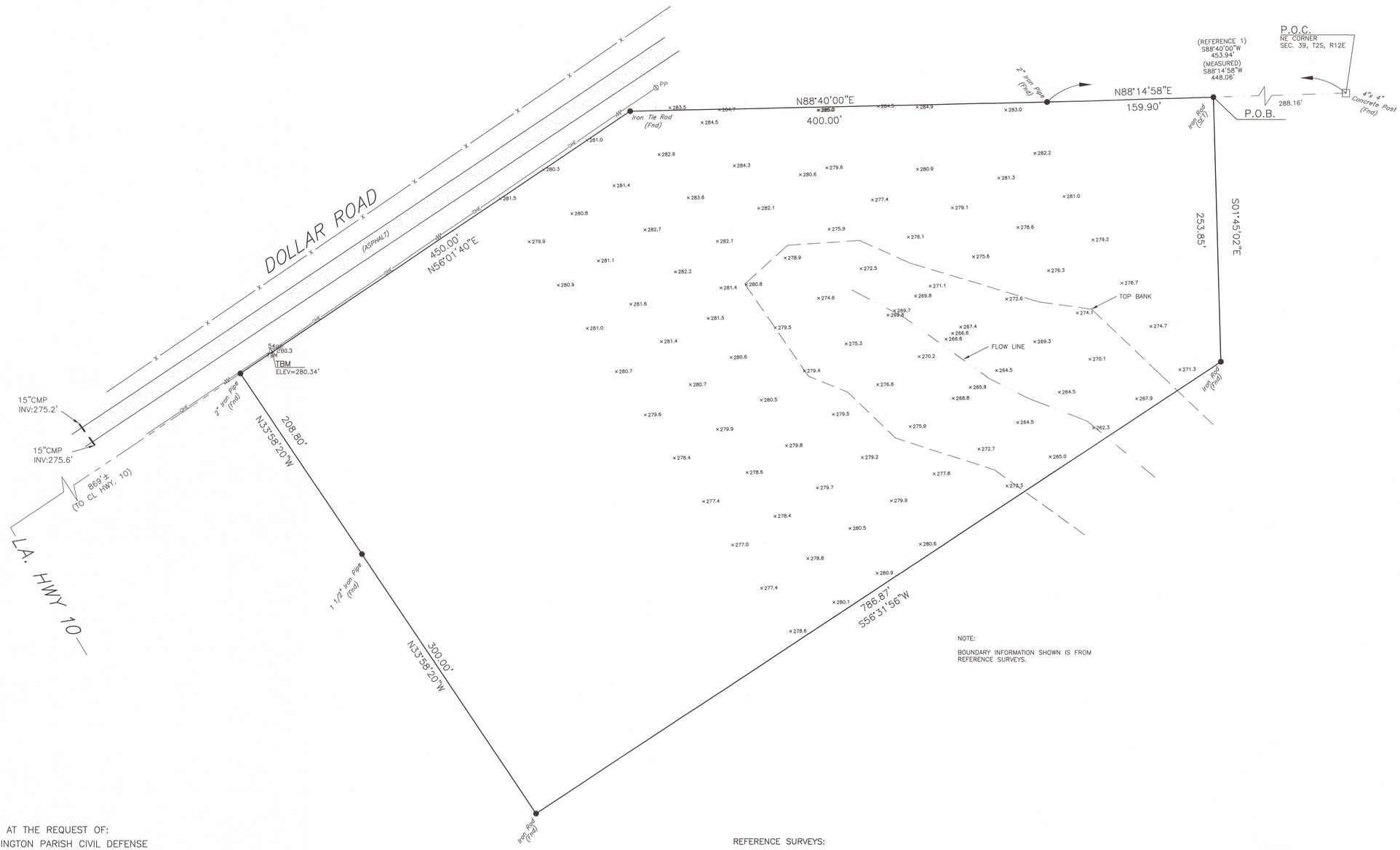
—x—x— FENCE LINE

—PP—W-E T TV— POWER POLE / OVERHEAD LINES

● 1/2" IRON ROD SET UNLESS OTHERWISE NOTED



SITE MAP
NOT TO SCALE



GENERAL NOTES

THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN DETERMINED FROM DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR EXTRACTED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND THE SURFACE FEATURES OF LOCATIONS ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATION PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON, INCLUDING PRIOR TO EXCAVATION AND DIGGING.

ALL ELEVATIONS SHOWN REFER TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 88).
B.M. = BENCH MARK, EL. = ELEVATION

REFERENCE BENCH MARK: HAMM, COVG, MSSC, CONTINUOUS OPERATING REFERENCE STATIONS (CORS). SITE BENCH MARK ELEVATION DETERMINED BY GPS OBSERVATION USING OPUS SOLUTION.

SITE BENCH MARK = RAILROAD SPIKE SET IN THE WEST FACE OF A POWER POLE 35'± NE OF THE NW PROPERTY CORNER & 30'± SOUTHEAST OF THE CENTERLINE OF DOLLAR ROAD
EL. = 280.34' N.A.V.D.
ADDRESS: 54100 DOLLAR ROAD

NOTES:

THE SERVITUDES AND RESTRICTIONS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE SET FORTH IN THE DESCRIPTION FURNISHED US AND THERE IS NO REPRESENTATION THAT ALL APPLICABLE SERVITUDES AND RESTRICTIONS ARE SHOWN HEREON. THE SURVEYOR HAS MADE NO TITLE SEARCH OR PUBLIC RECORD SEARCH IN COMPILING THE DATA FOR THIS SURVEY.

I HAVE CONSULTED THE FEDERAL INSURANCE ADMINISTRATION FLOOD HAZARD BOUNDARY MAPS AND FOUND THIS PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD AREA.

F. I. A. ZONE: "x"
BASE FLOOD ELEVATION: NONE

COMMUNITY PANEL NO. 220230 0150 B
EFFECTIVE DATE: 05/04/88

NOTE:

BOUNDARY INFORMATION SHOWN IS FROM REFERENCE SURVEYS.

STATE OF LOUISIANA
DENNIS L. GOWIN
REG No. 4846
REGISTERED PROFESSIONAL LAND SURVEYOR

Dennis L. Gowin

DENNIS L. GOWIN, P.L.S.; LA. REG. NO. 4846
REGISTERED PROFESSIONAL LAND SURVEYOR

MADE AT THE REQUEST OF:
WASHINGTON PARISH CIVIL DEFENSE

DATE	DESCRIPTION	REVISED

REVISIONS

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

REFERENCE SURVEYS:

1)SURVEY OF 3.00 ACRE PARCEL BY BILLY C. DANIELS PE/RLS, INC., JOB #22113, DATED 06/20/2002.

2)SURVEY PLAT BY TURNER SURVEYS LLC DATED 10/06/05 JOB #052176

3)SURVEY PLAT BY TURNER SURVEYS LLC DATED 10/06/05 JOB #061065

TURNER SURVEYS, LLC
15732 E. HOFFMAN ROAD
PONCHATOULA, LA 70454
Phone: (985)386-2358
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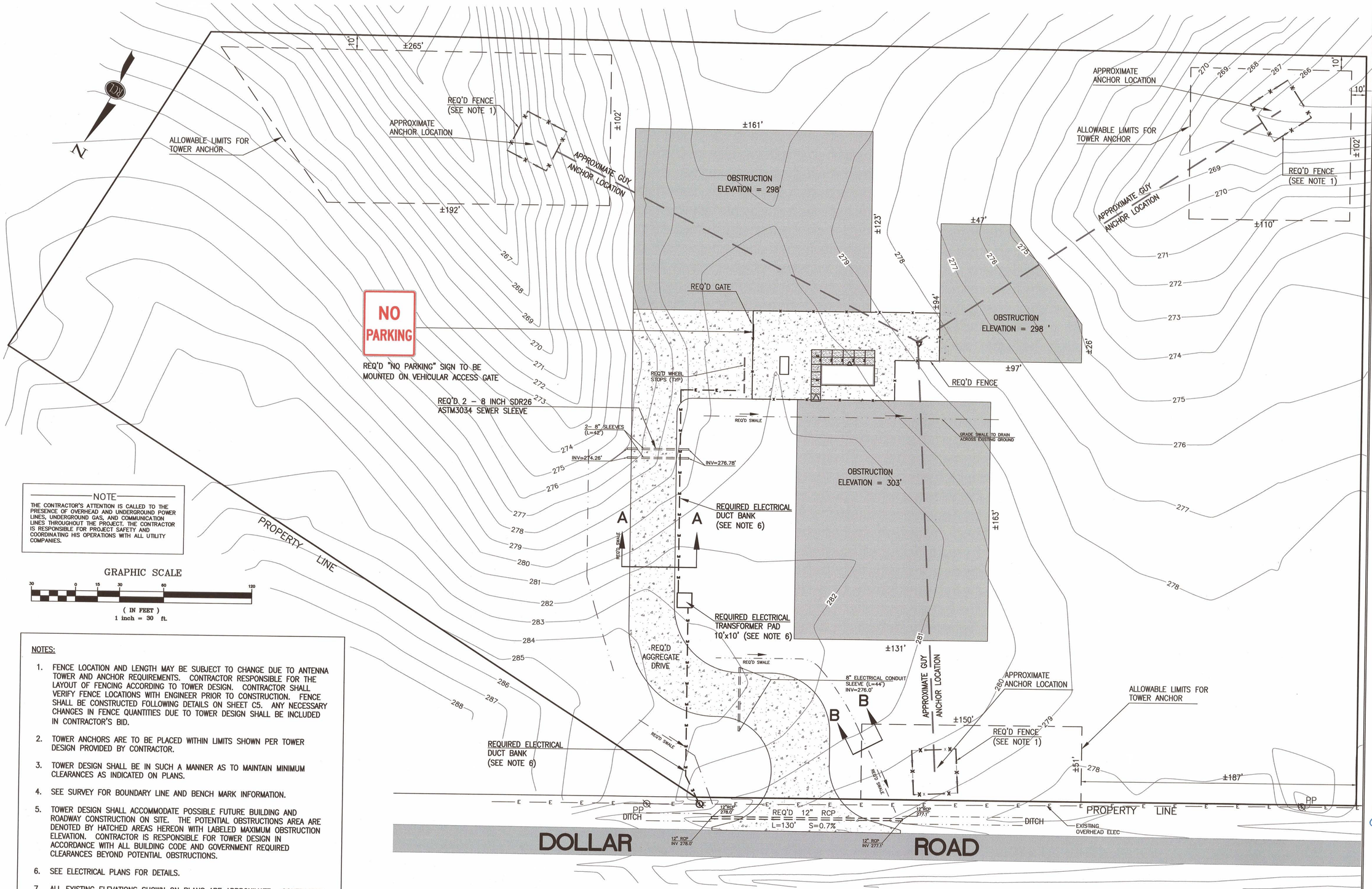
Turnersurveys@turnersurveys.net

ELEVATION SURVEY
OF A PORTION OF A 8.88 ACRE PARCEL
SECTION 39, T2S–R12E
WASHINGTON PARISH, LOUISIANA

DATE: 04/20/10	DRAWN BY: AF/DLC	JOB NO.	DRAWING NO. 1
SCALE: 1" = 50'	CHECKED BY: DLC	10-0147	



NOTE

THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF OVERHEAD AND UNDERGROUND POWER LINES, UNDERGROUND GAS, AND COMMUNICATION LINES THROUGHOUT THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY AND COORDINATING HIS OPERATIONS WITH ALL UTILITY COMPANIES.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

NOTES:

1. FENCE LOCATION AND LENGTH MAY BE SUBJECT TO CHANGE DUE TO ANTENNA TOWER AND ANCHOR REQUIREMENTS. CONTRACTOR RESPONSIBLE FOR THE LAYOUT OF FENCING ACCORDING TO TOWER DESIGN. CONTRACTOR SHALL VERIFY FENCE LOCATIONS WITH ENGINEER PRIOR TO CONSTRUCTION. FENCE SHALL BE CONSTRUCTED FOLLOWING DETAILS ON SHEET C5. ANY NECESSARY CHANGES IN FENCE QUANTITIES DUE TO TOWER DESIGN SHALL BE INCLUDED IN CONTRACTOR'S BID.
2. TOWER ANCHORS ARE TO BE PLACED WITHIN LIMITS SHOWN PER TOWER DESIGN PROVIDED BY CONTRACTOR.
3. TOWER DESIGN SHALL BE IN SUCH A MANNER AS TO MAINTAIN MINIMUM CLEARANCES AS INDICATED ON PLANS.
4. SEE SURVEY FOR BOUNDARY LINE AND BENCH MARK INFORMATION.
5. TOWER DESIGN SHALL ACCOMMODATE POSSIBLE FUTURE BUILDING AND ROADWAY CONSTRUCTION ON SITE. THE POTENTIAL OBSTRUCTIONS AREA ARE DENOTED BY HATCHED AREAS HEREON WITH LABELED MAXIMUM OBSTRUCTION ELEVATION. CONTRACTOR IS RESPONSIBLE FOR TOWER DESIGN IN ACCORDANCE WITH ALL BUILDING CODE AND GOVERNMENT REQUIRED CLEARANCES BEYOND POTENTIAL OBSTRUCTIONS.
6. SEE ELECTRICAL PLANS FOR DETAILS.
7. ALL EXISTING ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING ELEVATIONS.

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Management

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RCLC
Project Number: 809-07

Date Issued: 04-11-2011
Drawn By: M.F.H.
Checked By: FJZ/DPH

Revisions:

WASHINGTON PARISH COMMUNICATIONS TOWER

DOLLAR ROAD
WASHINGTON PARISH, LOUISIANA

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CIVIL ENGINEERING
4-11-2011

OVERALL SITE

Sheet Number:

C1

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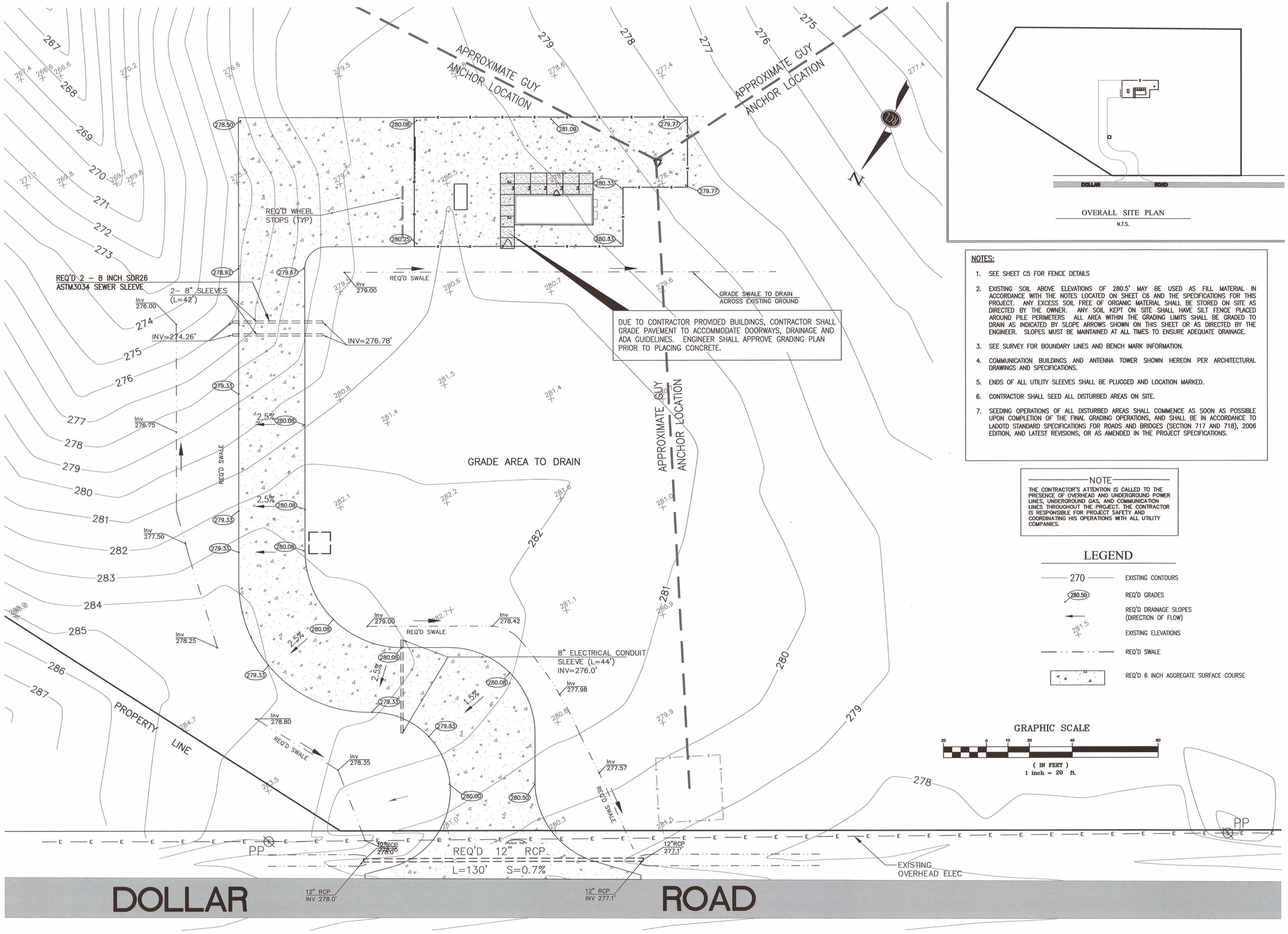

OVERALL SITE PLAN

N.T.S.

NOTES:

1. SEE SHEET C5 FOR FENCE DETAILS
2. EXISTING SOIL ABOVE ELEVATIONS OF 280.5' MAY BE USED AS FILL MATERIAL IN ACCORDANCE WITH THE NOTES LOCATED ON SHEET C6 AND THE SPECIFICATIONS FOR THIS PROJECT. ANY EXCESS SOIL FREE OF ORGANIC MATERIAL SHALL BE STORED ON SITE AS DIRECTED BY THE OWNER. ANY SOIL KEPT ON SITE SHALL HAVE SILT FENCE PLACED AROUND PILE PERIMETERS. ALL AREA WITHIN THE GRADING LIMITS SHALL BE GRADED TO DRAIN AS INDICATED BY SLOPE ARROWS SHOWN ON THIS SHEET OR AS DIRECTED BY THE ENGINEER. SLOPES MUST BE MAINTAINED AT ALL TIMES TO ENSURE ADEQUATE DRAINAGE.
3. SEE SURVEY FOR BOUNDARY LINES AND BENCH MARK INFORMATION.
4. COMMUNICATION BUILDINGS AND ANTENNA TOWER SHOWN HEREON PER ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
5. ENDS OF ALL UTILITY SLEEVES SHALL BE PLUGGED AND LOCATION MARKED.
6. CONTRACTOR SHALL SEED ALL DISTURBED AREAS ON SITE.
7. SEEDING OPERATIONS OF ALL DISTURBED AREAS SHALL COMMENCE AS SOON AS POSSIBLE UPON COMPLETION OF THE FINAL GRADING OPERATIONS, AND SHALL BE IN ACCORDANCE TO LADOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (SECTION 717 AND 718), 2006 EDITION, AND LATEST REVISIONS, OR AS AMENDED IN THE PROJECT SPECIFICATIONS.

NOTE

THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF OVERHEAD AND UNDERGROUND POWER LINES, UNDERGROUND GAS, AND COMMUNICATION LINES THROUGHOUT THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY AND COORDINATING HIS OPERATIONS WITH ALL UTILITY COMPANIES.

LEGEND

270	EXISTING CONTOURS
280.50	REQ'D GRADES
	REQ'D DRAINAGE SLOPES (DIRECTION OF FLOW)
281.5	EXISTING ELEVATIONS
	REQ'D SWALE
	REQ'D 6 INCH AGGREGATE SURFACE COURSE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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WASHINGTON PARISH, LOUISIANA

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4-11-2011

SITE / GRADING

Sheet Number: C2

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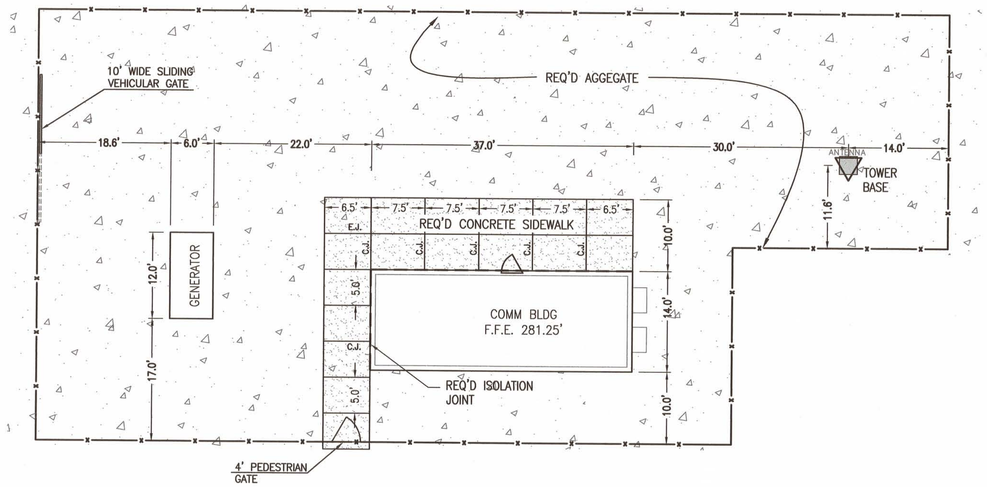


GRAPHIC SCALE

10 0 5 10 20 40

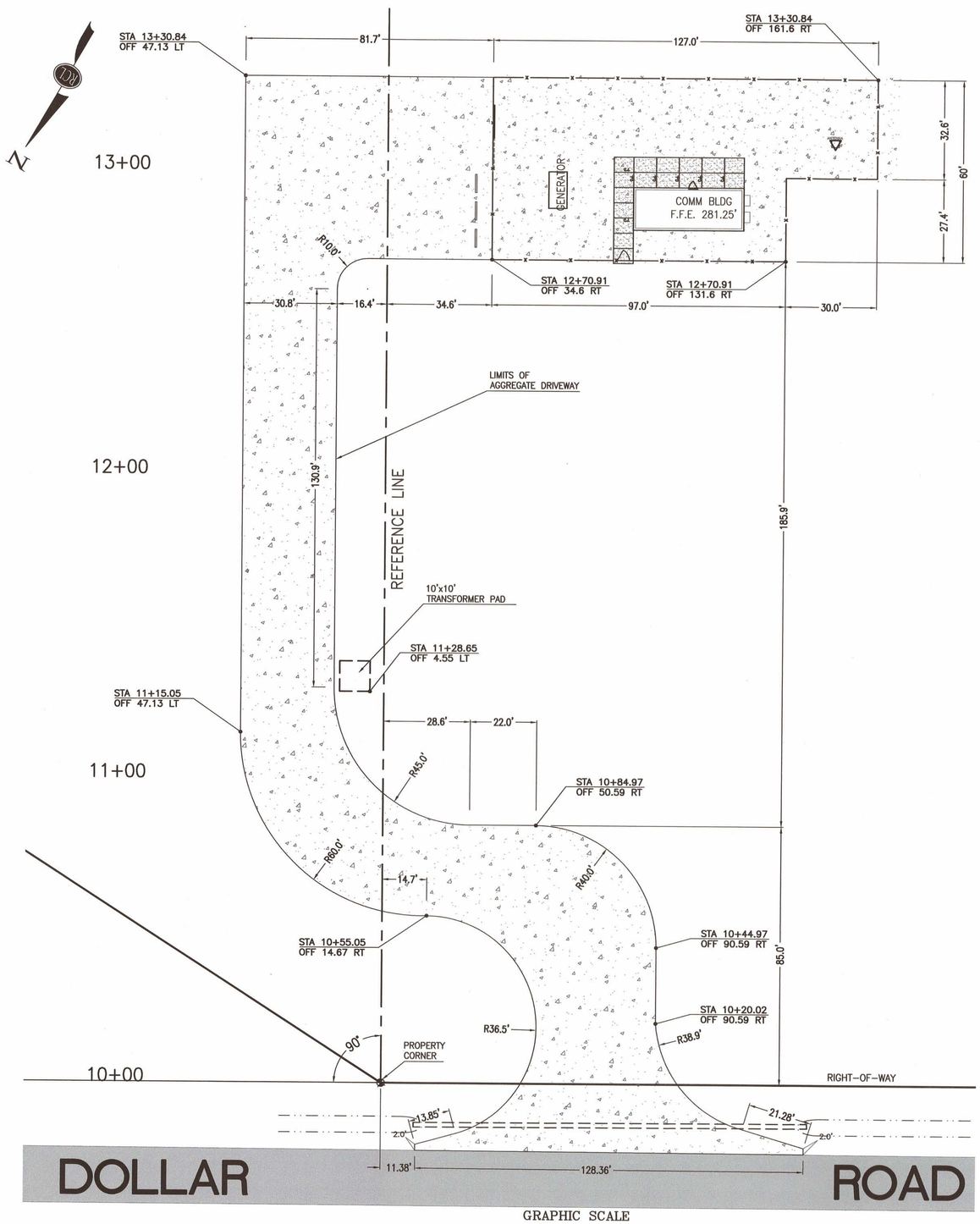
(IN FEET)
1 inch = 10 ft.

NOTES:

1. FENCE LOCATION AND LENGTH MAY BE SUBJECT TO CHANGE DUE TO ANTENNA TOWER AND ANCHOR REQUIREMENTS. CONTRACTOR RESPONSIBLE FOR THE LAYOUT OF FENCING ACCORDING TO TOWER DESIGN. CONTRACTOR SHALL VERIFY FENCE LOCATIONS WITH ENGINEER PRIOR TO CONSTRUCTION. FENCE SHALL BE CONSTRUCTED FOLLOWING DETAILS ON SHEET C5. ANY NECESSARY CHANGES IN FENCE QUANTITIES SHALL BE INCLUDED IN CONTRACTOR'S BID.
2. SEE SURVEY FOR BOUNDARY LINE AND BENCH MARK INFORMATION.

NOTE

THE CONTRACTOR'S ATTENTION IS CALLED TO THE PRESENCE OF OVERHEAD AND UNDERGROUND POWER LINES, UNDERGROUND GAS, AND COMMUNICATION LINES THROUGHOUT THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY AND COORDINATING HIS OPERATIONS WITH ALL UTILITY COMPANIES.



GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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GEOMETRIC

Sheet Number:

C3

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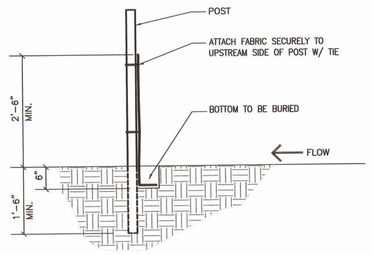
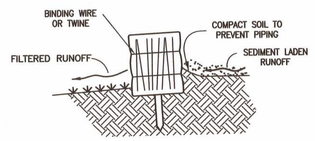
EROSION AND SEDIMENT CONTROL NOTES:

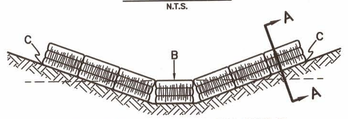
1. EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSTALLED BEFORE GRADING OPERATIONS AND SHALL BE MAINTAINED THROUGH THE COMPLETION OF THE PROJECT.
2. SILT FENCES SHALL BE CLEANED OR REPLACED WHEN SILT DEPOSITION HAS REACHED THE HALF WAY POINT OF THE FENCE HEIGHT. SILT FENCE MAINTENANCE SHALL BE AT THE CONTRACTOR'S EXPENSE.
3. ALL DROP INLETS, CATCH BASINS, OR PIPE INLETS SHALL BE PROTECTED AGAINST SILT TRANSPORT WITH SILT FENCES OR HAY BALES. PROPERLY INSTALLED SILT FENCE IS PREFERRED OVER HAY BALES.
4. EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTROL MEASURES SHOWN MAY NEED TO BE ADJUSTED TO FIT THE FIELD CONDITIONS. ADDITIONAL DEVISES MAY ALSO NEED NECESSARY FOR ADEQUATE EROSION AND SEDIMENT CONTROL OR AS DEEMED NECESSARY BY GOVERNING AUTHORITIES. ANY NECESSARY ADJUSTMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
6. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS SHEET MAY REQUIRE MODIFICATION ACCORDING TO FIELD CONDITIONS DURING CONSTRUCTION TO MINIMIZE SEDIMENTATION TRANSPORT OFFSITE. ANY REQUIRED MODIFICATIONS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND ABIDING TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND OBTAINING AND MAINTAINING A LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY STORM WATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES.
8. SEEDING OPERATIONS OF ALL DISTURBED AREAS SHALL COMMENCE AS SOON AS POSSIBLE UPON COMPLETION OF THE FINAL GRADING OPERATIONS, AND SHALL BE IN ACCORDANCE TO LADOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (SECTION 717 AND 718), 2006 EDITION, AND LATEST REVISIONS, OR AS AMENDED IN THE PROJECT SPECIFICATIONS.
9. NO TRACKING OF DIRT/MUD FROM SITE ONTO ROADWAYS ALLOWED. CONTRACTOR TO COORDINATE WITH OWNER TO SET UP WASH DOWN AREA. ANY TRACKING SHALL BE REMOVED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
10. THE CONTRACTOR SHALL MAINTAIN A CONSTRUCTION ENTRANCE DESIGNED TO MINIMIZE TRACKING ONTO ADJACENT STREETS. THE ENTRANCE SHALL BE MAINTAINED AT THE CONTRACTOR'S EXPENSE.
11. EMBANKMENT AND DITCH SIDE SLOPES SHALL BE HYDROSEEDED FOR EROSION CONTROL IN ACCORDANCE WITH LA DOTD SECTION 739.
12. DITCHES SHALL BE MAINTAINED AND CLEANED AS NECESSARY UNTIL THE SITE HAS BEEN STABILIZED. ALL EMBANKMENT AND DITCHES SHALL BE MAINTAINED UNTIL PROPERLY VEGETATED TO PREVENT EROSION.



SILT FENCE DETAIL



SECTION A–A
N.T.S.



POINTS 'C' SHOULD BE HIGHER THAN POINT 'B'

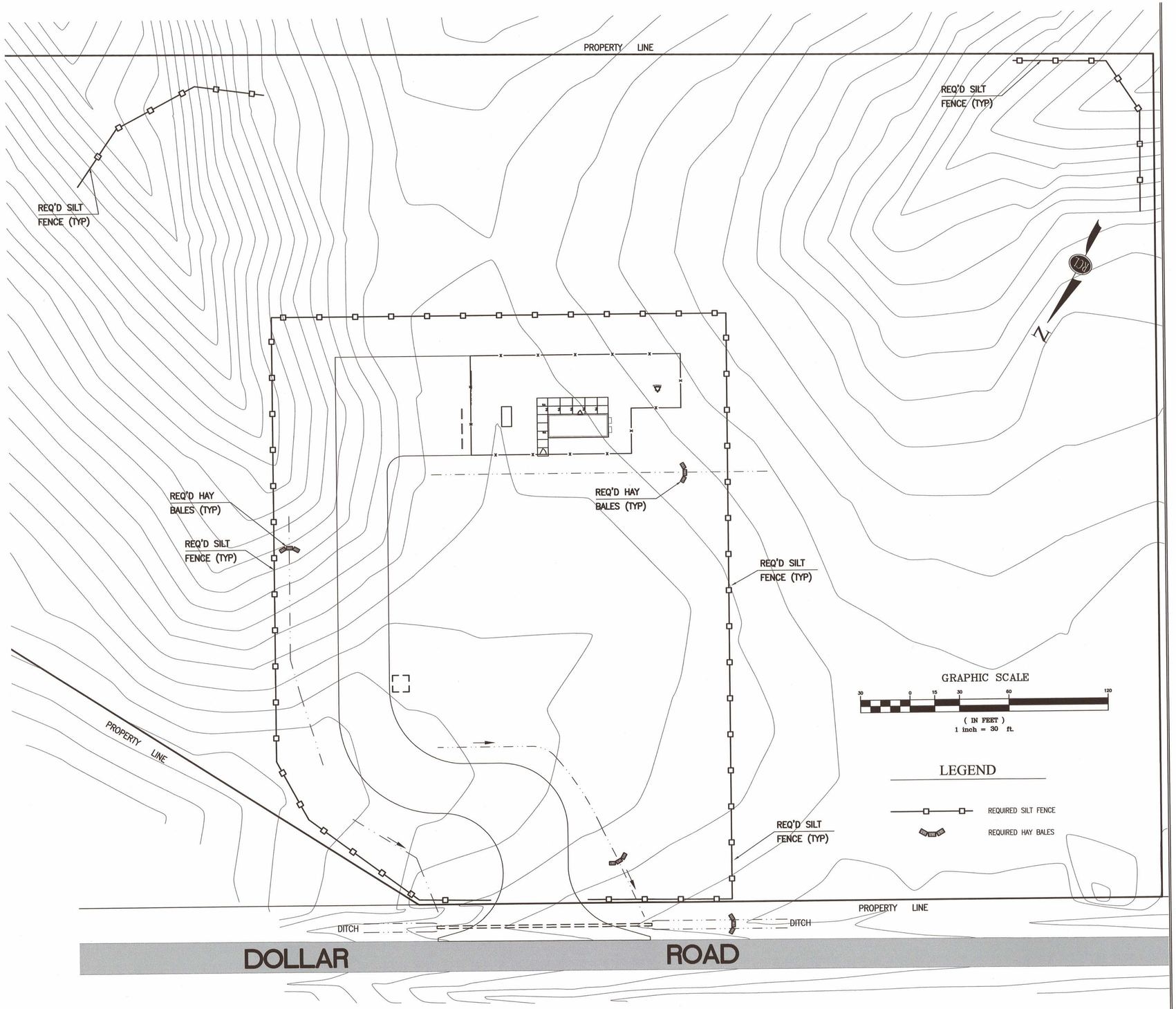
ELEVATION
N.T.S.

TEMPORARY SEDIMENT CHECK DAM (HAY)
PAY ITEM 204(05)(A). TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:

A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH LA DOTD STANDARD SPECIFICATIONS, SECTION 204. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER INCLUDE, BUT ARE NOT LIMITED TO:

1. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND FILL EROSION.
2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES.
3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
4. DO NOT USE IN LIVE STREAMS OR IN SWALES DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT.



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4-11-2011

EROSION CONTROL

Sheet Number:
C4

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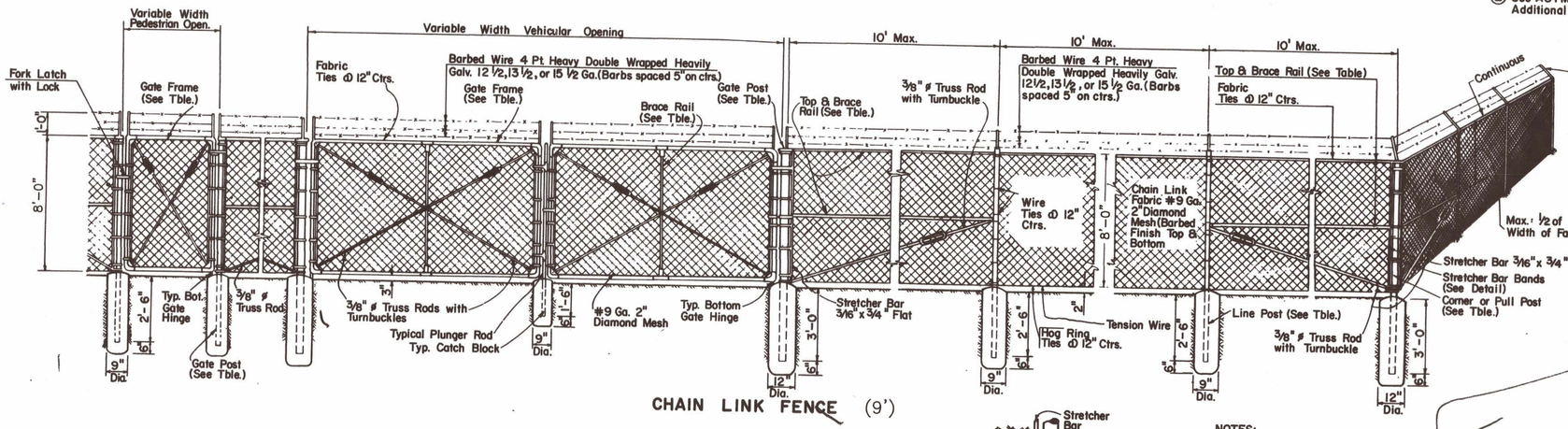
FULL CANTILEVER SLIDING GATE NOTES:

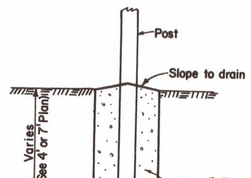
1. CANTILEVER SLIDING GATE SHALL BE CONSTRUCTED USING METHODS AND MATERIALS THAT ARE EQUAL TO OR EXCEED THOSE REQUIRED IN THE FENCE DETAIL.
2. THE 10 FOOT WIDE CANTILEVER GATE SHALL HAVE A CANTILEVER SUPPORT SECTION OF NO LESS THAN 6.5 FEET.
3. MESH SECTION, BRACING, GATE POSTS AND ALL ADDITIONAL HARDWARE ASSOCIATED WITH THE CANTILEVER GATE SHALL BE OF EQUAL OR GREATER MATERIALS AS REQUIRED IN THE FENCE DETAILS.
4. CANTILEVER SLIDING GATE SHALL NOT INCLUDE BOTTOM GUIDE WHEEL DUE TO AGGREGATE SURFACING.
5. CANTILEVER GATE SHALL HAVE 3 STRANDS OF BARBED WIRE INSTALLED AS SHOWN IN FENCE DETAILS.
6. CANTILEVER GATE ROLLER ASSEMBLIES SHALL HAVE SAFETY COVERS.
7. A LOCK LATCH IS TO BE INSTALLED ON THE GATE.

	OUTSIDE DIA. (INCHES)	LBS.② (PER LIN.FT)	ALTERNATE ③ (INCHES)	SECTION①	LBS. (PER LIN. FT.)
LINE POST	2 3/8	3.65	2.375	Round	3.12
			2.25 x 1.70	H	4.12
			2.25 x 1.70	Heavy C	2.73
			1.875 x 1.625	Std. C	2.34
BRACE RAIL	1 5/8	2.27	1.660	Round	1.84
			1.875 x 1.625	H	3.33
			1.625 x 1.25	See Detail	1.35
COR. POST	2 7/8	5.79	2.875	Round	4.64
GATE POST	4.0	9.10	3.500	Round	6.01
GATE FRAME	1 7/8	2.71	1.900	Round	2.28

① Minimum Yield Strength = 45 KSI, except for 1.625 x 1.25 Brace Rail. See Detail.
② See ASTM A120 For Additional Details.



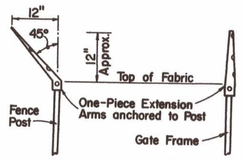
CHAIN LINK FENCE (9')



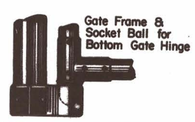
DETAIL OF POST FOOTING

FABRIC & TENSION WIRE DETAIL

TERMINAL POST DETAIL



DETAIL SHOWING CONNECTION OF EXTENSION RODS



TYPICAL BOTTOM GATE HINGE

NOTES:
The fence installation and details shown are typical and may vary in accordance with different manufacturers, provided that they meet the Standard Specifications.

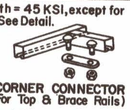
Typical installation plan may vary as shown on the plans or as directed by the Engineer. Location of gates to be shown on plans.

Grounding devices are to be installed in accordance with the Standard Specifications.

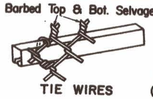
Connections to aluminum alloy or aluminum coated fence to be made with steel mechanical connectors. All other mechanical connectors to be bronze.

All bolts to be upset to discourage vandalism.

All connection methods to be approved by the Project Engineer.



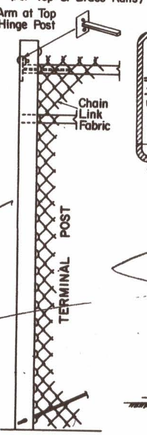
CORNER CONNECTOR (For Top & Brace Rails)

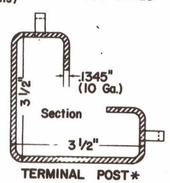


TIE WIRES

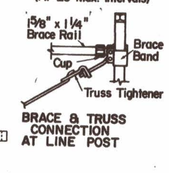
Barbed Top & Bot. Selvages

RAIL COUPLING (At 20' Max. Intervals)

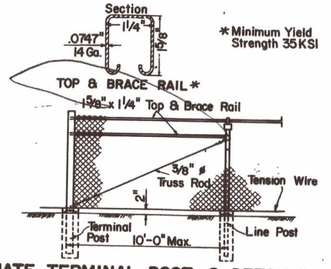




TERMINAL POST*

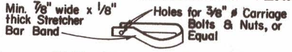


BRACE & TRUSS CONNECTION AT LINE POST



*Minimum Yield Strength 35KSI

ALTERNATE TERMINAL POST & DETAILS



TYP. STRETCHER BAR BAND

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RCLC Project Number: 809-07

Date Issued: 04-11-2011
Drawn By: M.F.H.
Checked By: FJZ/DPH

Revisions:

WASHINGTON PARISH COMMUNICATIONS TOWER

DOLLAR ROAD

WASHINGTON PARISH, LOUISIANA

STATE OF LOUISIANA
DANIEL P. HILL
License No. 35556
PROFESSIONAL ENGINEER
4-11-2011

FENCE DETAIL

Sheet Number:

C5

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CONCRETE PAVING NOTES:

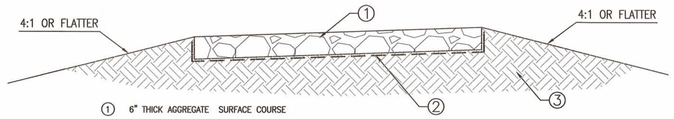
1. CONTRACTOR SHALL VIBRATE CONCRETE VERTICALLY 4' O.C. FOR 15 SECONDS MINIMUM. DO NOT VIBRATE FORMS.
2. ALL EXPANSION JOINTS SHALL HAVE LOAD TRANSFER DEVICES AND REDWOOD FOR EXPANSION MATERIAL.
3. ALL FORMS AND EXPANSION JOINTS MUST BE FULL DEPTH, CONTRACTION JOINTS MUST BE "SCORED TO A DEPTH OF 1/4 OF THE SLAB THICKNESS.
4. ALL SIDEWALK JOINTS, INCLUDING SIDEWALKS ADJACENT TO BUILDING, SHALL BE SEALED WITH A URETHANE SELF LEVELING SEALANT SONNEBORNE, SL1 (COLOR GRAY).
5. CONTRACTOR SHALL SAW CUT ACCORDING TO LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION, SECTION 601.09, JOINTS, PARAGRAPH (C), TRANSVERSE CONTRACTION JOINTS (TYPE TCJ).
6. INITIAL SAWING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY THAT TEARING OF THE CONCRETE WILL NOT OCCUR, AND SHALL BE COMPLETED IN A TIMELY MANNER SUCH THAT RANDOM CRACKING DOES NOT OCCUR (GENERALLY WITHIN 10 HOURS).
7. THE JOINT RESERVOIR SHALL BE SAWED TO THE MINIMUM WIDTH AND DEPTH AS SHOWN IN DETAIL.
8. AFTER EACH JOINT IS SAWED, THE SAW CUT AND ADJACENT CONCRETE SURFACES SHALL BE CLEANED OF MATERIAL RESULTING FROM SAWING.
9. NO EQUIPMENT OTHER THAT THE SAWING MACHINE AND TESTING EQUIPMENT WILL BE PERMITTED ON THE PAVEMENT DURING SAWING OPERATIONS.
10. THE CONTRACTOR SHALL REPAIR ANY RANDOM CRACKING, CHIPPING, SPALLING, OR TEARING OF THE CONCRETE AT NO DIRECT PAY BY APPROVED METHODS TO THE SATISFACTION OF THE ENGINEER.
11. CONCRETE MIX FOR PAVEMENT SHALL BE AS FOLLOW:
    - A) LaDOTD TYPE B MIX
    - B) 5.8 SACKS OF CEMENT PER CUBIC YARD
    - C) 2" TO 4" SLUMP RANGE
    - D) CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
    - E) THE ATTAINMENT OF A COMPRESSIVE STRENGTH OF 3,000 PSI IS DESIRABLE WITHIN THREE (3) DAYS OF THE POUR IF PAVEMENT IS TO BE USED FOR PARKING OR CONSTRUCTION OPERATIONS.
    - F) 6"x6" 2/2 WELDED WIRE FABRIC
12. PRIOR TO INSTALLATION OF THE CONCRETE PAVEMENT AND ROADWAY CURBING, THE CONTRACTOR SHALL SUBMIT A CONCRETE MIX PREPARED BY A REPUTABLE TESTING LABORATORY TO THE ENGINEER FOR APPROVAL.
14. PAVEMENT SPECIFICATIONS SHOWN ARE REQUIRED MINIMUMS ONLY. CONTRACTOR IS TO REFER TO THE SOILS REPORT FOR ACTUAL REQUIRED SPECIFICATIONS. THE MORE STRINGENT REQUIREMENTS APPLY.
15. CONTRACTOR SHALL NOTE THAT HANDICAP PARKING AREA SLOPE AND ACCESS PATH, "SIDEWALKS" SLOPE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION. (TYPICAL) VERIFY ELEVATIONS.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND VERIFYING ALL MEASUREMENTS AND GRADES PRIOR TO BEGINNING OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH BASE LINE AND ADDITIONAL T.B.M.'S BEFORE DESTROYING REFERENCED MONUMENTS/NAILS/CROSS CUTS, ETC.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND SHALL REPORT DAMAGES TO THE UTILITY ENTITIES IMMEDIATELY AFTER IT OCCURS. ALL REPAIRS OF THE DAMAGED UTILITIES SHALL BE DONE BY THE RESPECTIVE UTILITY ENTITY. REPAIR COSTS SHALL BE BORNE BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE RESPECTIVE UTILITY COMPANIES FOR ADJUSTMENT, REMOVAL OR RELOCATION OF THE EXISTING UTILITIES WHICH INTERFERE WITH THE WORK. ALL PRIVATELY OWNED UTILITY MANHOLES SHALL BE ADJUSTED BY THE UTILITY COMPANIES. THE CONTRACTOR SHALL COORDINATE THESE ACTIVITIES AND ALLOW SUFFICIENT TIME FOR PRIVATE UTILITY COMPANIES TO PERFORM THEIR WORK.
4. ANY UTILITY OR PROPERTY DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT HIS OWN EXPENSE.
5. THE LINES AND GRADES SHOWN ON THE PLANS MAY BE CHANGED BY THE PROJECT ENGINEER IF FIELD CONDITIONS JUSTIFY SUCH A VARIATION. THE CONTRACTOR SHALL NOT BE ENTITLED TO EXTRA PAYMENT OTHER THAN WHATEVER INCREASES IN QUANTITIES ARE INVOLVED AND INCLUDED IN AN APPROVED CHANGE ORDER.
6. ADEQUATE DRAINAGE SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL PROTECT THE EXISTING UTILITIES BY PROVIDING ADEQUATE SUPPORT AND BRACING DURING INSTALLATION OF NEW UTILITIES UNDER THOSE EXISTING LINES. CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING OR REPLACING THE EXISTING LINES IF DAMAGED.
8. THE CONTRACTOR IS RESPONSIBLE FOR CALCULATION OF ALL QUANTITIES WITHIN LUMP SUM BID.
9. THE CONTRACTOR SHALL PROVIDE FOR AND MAINTAIN LOCAL AND THROUGH TRAFFIC AT ALL TIMES AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH TRAFFIC IN THE VICINITY OF THE PROJECT.
10. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING FENCES WITH MATERIAL EQUAL TO OR BETTER THAN EXISTED PRIOR. NO DIRECT PAY FOR THIS WORK.
11. ALL EXCESS EXCAVATION SHALL BE HAULED TO A LOCATION ON SITE, PLACED AND COMPACTED AS DETERMINED BY OWNER.
12. ANY DAMAGE CAUSED BY CONTRACTOR TO ADJACENT ROADWAY OR PROPERTY SHALL BE REPAIRED BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
13. FOR ALL INFORMATION ON EXISTING FEATURES, SERVITUDES, PROPERTY LINES, UTILITIES, ETC. SEE SURVEY.
14. LOCATION OF UNDERGROUND UTILITIES, EXISTING OR PROPOSED, ARE APPROXIMATE OR SCHEMATIC. LOCATION OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD PRIOR TO ANY CONSTRUCTION.
15. CONTRACTOR SHALL CONTACT ALL PUBLIC AND PRIVATE UTILITIES AND LOUISIANA ONE CALL AT 1-800-272-3020 AT LEAST 4 WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION AROUND THEIR RESPECTIVE UTILITIES.
16. THE CONTRACTOR SHALL CONTACT THE FOLLOWING AT LEAST FOUR (4) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION AROUND THEIR RESPECTIVE UTILITIES.

A) WATER	– FRANKLINTON RURAL	985-839-6433	HARVEY CONERLY
B) GAS	– FRANKLINTON RURAL	985-839-5026	JOHNNY ROCHESTER
C) ELEC	– ENTERGY	985-839-3562	(DISPATCH OFFICE)
D) CABLE	– CHARTER COMMUNICATIONS	985-227-0919	JOHNNY CRUSE
E) PHONE	– AT&T	985-867-1288	NEAL JONES

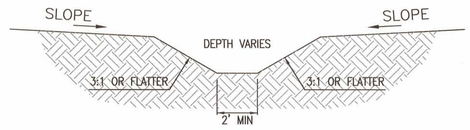
17. ALL TREES, VEGETATION, AND DEBRIS WITHIN THE PROJECT LIMITS OF CONSTRUCTION IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED.
18. ANY IMPORTED CLAYEY SOIL FILL MATERIAL SHALL HAVE A LIQUID LIMIT OF LESS THAT 45 AND A PLASTICITY INDEX BETWEEN 8 AND 25. MATERIAL COMPACTED TO 95% DENSITY PER ASTM D698.
19. ONSITE SOILS AND/OR IMPORTED SOILS USED AS FILL MATERIAL SHALL BE FREE OF ROOTS, CONSTRUCTION OR FLOOD DEBRIS, ORGANIC MATTER OR ANY OTHER TYPE OF DELETERIOUS MATTER.
20. ALL EXISTING SOIL TO REMAIN UNDER AGGREGATE SURFACES AND CONCRETE SHALL BE FREE OF ROOTS, CONSTRUCTION OR FLOOD DEBRIS, ORGANIC MATTER OR ANY OTHER TYPE OF DELETERIOUS MATTER.
21. ALL FILL MATERIAL SHALL BE CONDUCTED IN 8" MAXIMUM LIFTS AND COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT PER ASTM D698.



① 6" THICK AGGREGATE SURFACE COURSE
② GEOTEXTILE FABRIC (LADOTD CLASS D)
③ EXISTING GROUND AFTER ORGANICS HAVE BEEN REMOVED

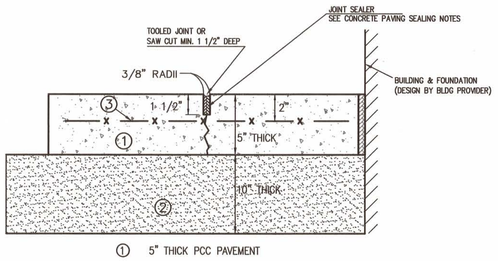
SECTION A-A
AGGREGATE DRIVE SURFACE COURSE DETAIL

N.T.S.



SECTION B-B
REQUIRED SWALE DETAIL

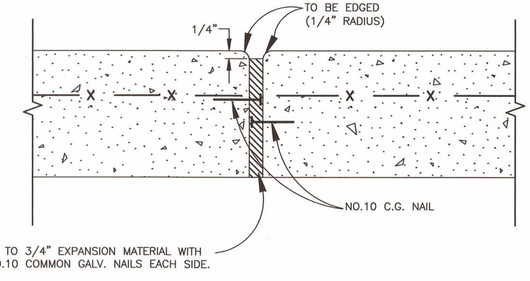
N.T.S.



① 5" THICK PCC PAVEMENT
② 10" GRANULAR BASE MATERIAL BASE COURSE (SEE GENERAL NOTE 18)
③ 6"x6" 2/2 WELDED WIRE FABRIC

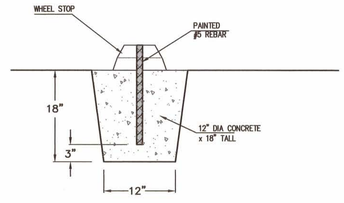
CONCRETE PAVEMENT DETAIL
TRANSVERSE CONTRACTION JOINT
(SAWCUT WITH SEALER)

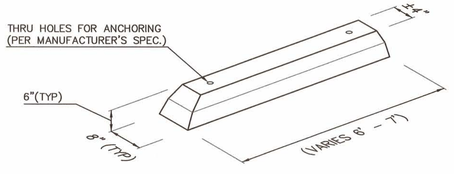
N.T.S.



EXPANSION JOINT (TYPE "A")

N.T.S.





PRECAST CONCRETE WHEEL STOPS
3000 TO 5000 PSI PCC
REINFORCED WITH TWO #4 REBARS
SLOTTED TO ALLOW FOR UNDERSIDE DRAINAGE
TWO THRU HOLES FOR ANCHORING
SMOOTH FINISH
PAINTED -SAFETY YELLOW

WHEEL STOP DETAIL

N.T.S.

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RCLC
Project Number: 809-07
Date Issued: 04-11-2011
Drawn By: M.F.H.
Checked By: FJZ/DPH

Revisions:

WASHINGTON PARISH COMMUNICATIONS TOWER

DOLLAR ROAD
WASHINGTON PARISH, LOUISIANA

STATE OF LOUISIANA
DANIEL P. HILL
License No. 35556
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
4-11-2011

NOTES AND DETAILS

Sheet Number:
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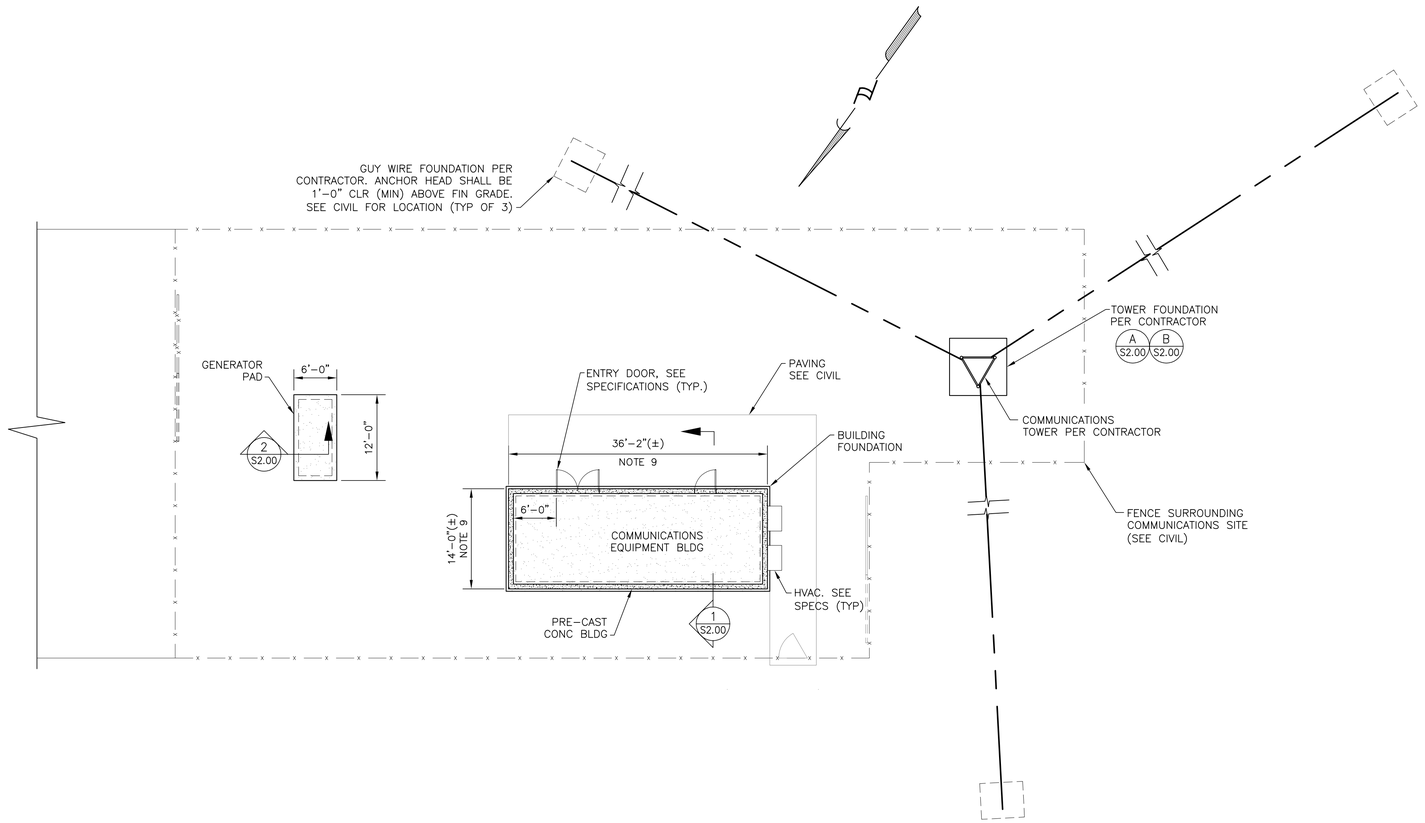

STRUCTURAL SITE PLAN

SCALE 1" = 10'-0"

STRUCTURAL NOTES:

1. CONTRACTOR SHALL DESIGN & CONSTRUCT FOUNDATIONS FOR THE FOLLOWING:
   - A. COMMUNICATIONS TOWER
   - B. GUY WIRES
   - C. PRECAST COMMUNICATIONS EQUIPMENT BUILDING
   - D. CABLE TRAY SUPPORTS
2. CONTRACTOR DESIGNED FOUNDATIONS:
   - A. SHALL BE REINFORCED CONCRETE AND SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF LOUISIANA.
   - B. SHALL BE DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT BY AQUATERRA ENGINEERING LLC, DATED MARCH 4, 2010, UON.
3. OWNER DESIGNED FOUNDATIONS:
   - A. INCLUDE FOUNDATIONS FOR THE FOLLOWING:
     - A.1. GENERATOR
     - A.2. TRANSFORMER
4. OWNER DESIGNED FOUNDATIONS SHALL BE CONSTRUCTED ACCORDING TO THE STRUCTURAL CONCRETE SPECIFICATION.
5. TRANSFORMER PAD NOT SHOWN THIS SHEET. SEE S2.00 FOR DETAILS AND E1.00 FOR LOCATION.
6. DESIGN WIND SHALL BE PER ANSI/TIA-222-G-1-2007, ASCE-7-02, IBC 2006 AND SHALL BE 120 MPH (3-SEC GUST) .
7. CABLE TRAY SUPPORTS:
   - A. SHALL BE DESIGNED, FABRICATED, & INSTALLED BY CONTRACTOR.
   - B. SHALL BE STRUCTURAL STEEL, CONFORMING TO ASTM A36 (MIN), HSS &/OR W SHAPES.
   - C. SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
8. CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR OWNER APPROVAL WITHIN 14 WORKING DAYS AFTER NOTICE TO PROCEED:
   - A. SITE PLAN DEPICTING PROPOSED LAYOUT/ARRANGEMENT OF ALL ITEMS.
   - B. DESIGN DETAILS FOR ALL CONTRACTOR DESIGNED FOUNDATIONS & STRUCTURES.
   - C. COMPLETE ASSEMBLY DRAWINGS ILLUSTRATING ALL COMPONENT PART NUMBERS AND THEIR RESPECTIVE LOCATIONS THAT ARE UTILIZED IN THE CONSTRUCTION OF THE TOWER. CONSTRUCTION DRAWINGS SHOULD LIST/IDENTIFY ALL TOWER MATERIALS, HARDWARE, ACCESSORIES, AND DETAILS FOR PROPER ASSEMBLY AND INSTALLATION.
   - D. COMMUNICATION EQUIPMENT BUILDINGS SHOP DRAWINGS.
9. EXTERIOR DIMENSIONS OF BUILDING SHALL BE ADJUSTED TO SUIT CONTRACTOR'S DESIGN. SEE ELECTRICAL FOR INTERIOR DIMENSION REQUIREMENTS.

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Date Issued: April 11, 2011
Drawn By: RK
Checked By: WT

Revisions:

WASHINGTON PARISH COMMUNICATIONS TOWER

DOLLAR ROAD
WASHINGTON PARISH, LOUISIANA

STATE OF LOUISIANA
WILLIAM J. THOMASSIE
REG. No. 27421
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEER

STRUCTURAL SITE PLAN & NOTES

Sheet Number:

S1.00

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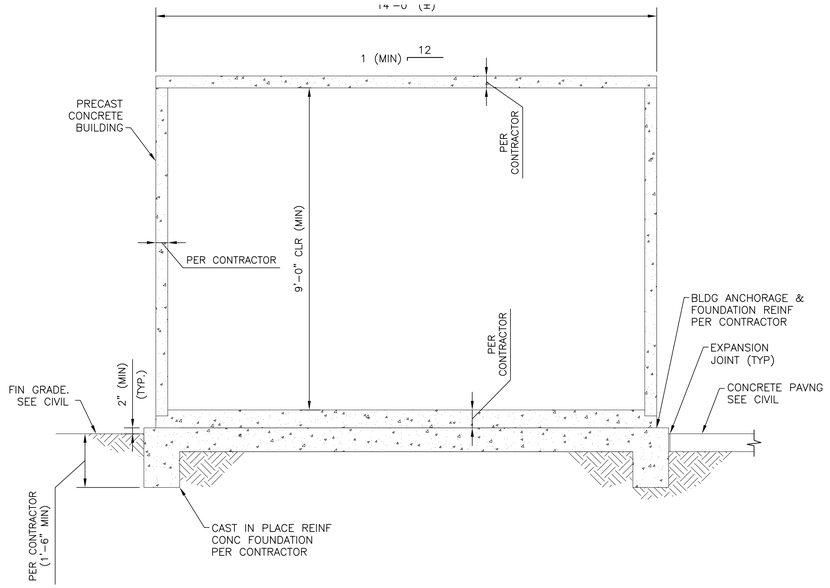
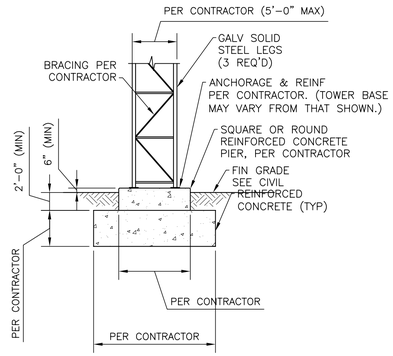
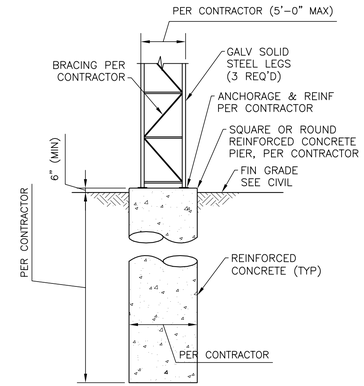


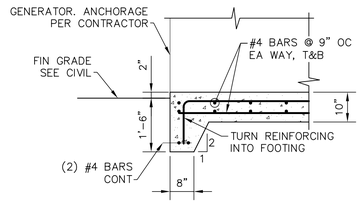
1 S1.00 **SECTION**
SCALE: 1/2" = 1'-0"



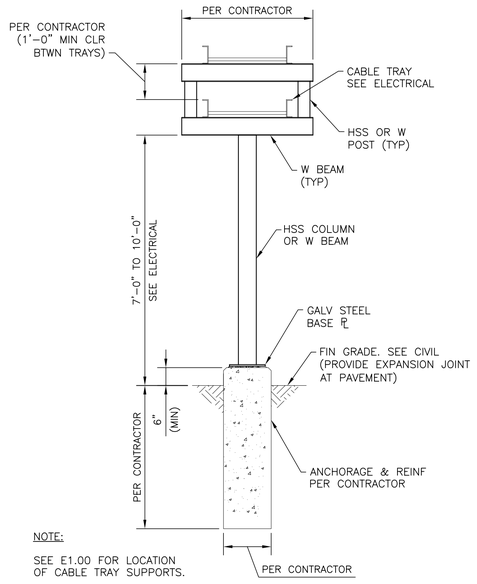
A S1.00 **FOUNDATION OPTION A - SHALLOW SPREAD FOOTING**
SCALE: 1/8" = 1'-0"



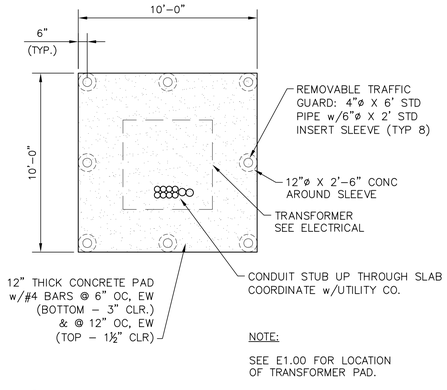
B S1.00 **FOUNDATION OPTION B - DRILLED SHAFT**
SCALE: 1/8" = 1'-0"



2 S2.00 **SECTION**
SCALE: 1/2" = 1'-0"



A E3.00 **CABLE TRAY SUPPORT**
SCALE: 1/2" = 1'-0"



B E1.00 **TRANSFORMER PAD**
SCALE: 1/4" = 1'-0"

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STRUCTURAL SECTIONS & DETAILS

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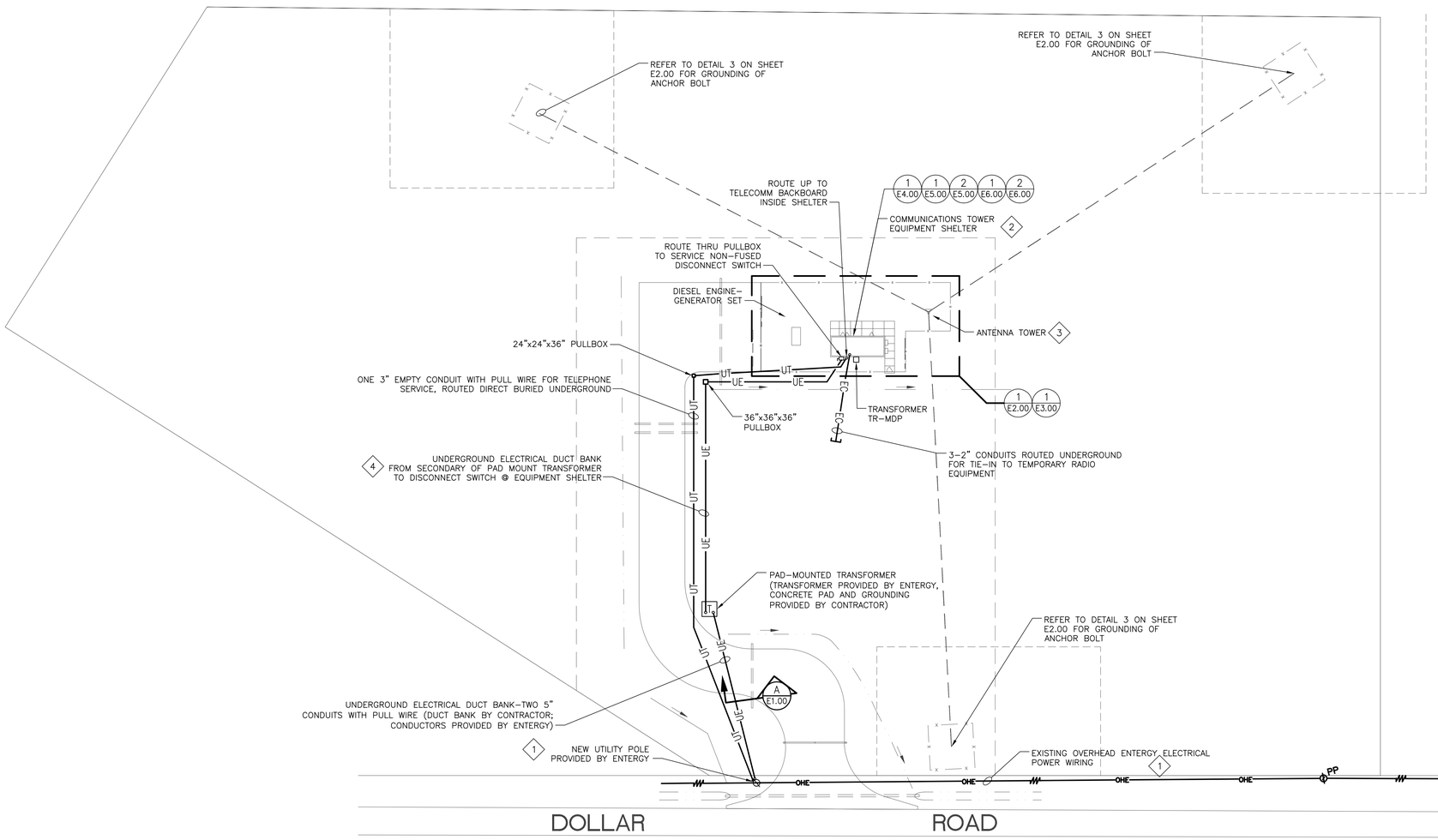
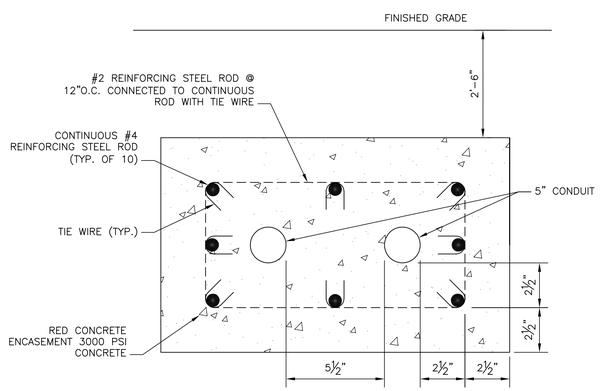


1 ELECTRICAL SITE PLAN
E100 1" = 40'-0"



A SECTION - UNDERGROUND DUCT BANK FROM PAD-MOUNTED TRANSFORMER TO UTILITY POLE
E100 1/2"=1'-0"

PLAN DRAWING SYMBOLS

- WIRING CONCEALED IN CEILINGS, WALLS OR FLOORS
- WIRING (IN CONDUIT) ROUTED EXPOSED
- UE — UNDERGROUND ELECTRICAL POWER WIRING
- UT — UNDERGROUND TELECOMM WIRING
- OHE — ELECTRICAL POWER WIRING ROUTED OVERHEAD
- EC — EMPTY CONDUIT
- CONDUIT TURNING UP OR TOWARDS
- CONDUIT TURNING DOWN OR AWAY
- LIGHTING AND RECEPTACLE PANELBOARD
- DISTRIBUTION PANELBOARD
- NL — FLUORESCENT LIGHTING FIXTURE, SUFFIX INDICATES SWITCH LEG OR NIGHT LIGHT (SEE LIGHTING FIXTURE SCHEDULE FOR DETAIL).
- XXX-1,3 — HOMERUN TO PANELBOARD "XXX". SMALL CROSSMARKS INDICATE HOT WIRE, LARGE CROSSMARK INDICATES NEUTRAL. GROUND WIRE NOT SHOWN BUT SHALL BE INCLUDED IN ALL CIRCUITS. WIRING #12 IN 3/4"C. UNLESS INDICATED OTHERWISE.
- DISCONNECT SWITCH
- MOTOR CONTROLLER
- COMBINATION MOTOR STARTER/ CIRCUIT BREAKER OR DISCONNECT SWITCH
- $ms — MANUAL MOTOR STARTING SWITCH
- $ — SINGLE POLE TOGGLE SWITCH – 20A, 120/277V
- LS — LIMIT SWITCH
- TS-X TIME SWITCH
- JUNCTION BOX – USE RAISED COVER & BLANK PANEL IN FINISHED AREAS
- GFI — RECEPTACLE WITH GROUND FAULT INTERRUPTER
- RECEPTACLE – DUPLEX, 20A, 1ø, 120V, 3 POLES, GROUNDED
- WP — WEATHERPROOF RECEPTACLE
- J — JUNCTION BOX
- X — ELECTRICAL NOTE DESIGNATION TAG (SPECIFIC TO EACH SHEET)
- GROUND ROD
- GROUND WELL
- EXOTHERMIC WELDED CABLE CONNECTION
- G — GROUNDING CABLE
- ELECTRIC MOTOR (CONNECTION AS NOTED)
- CR — CARD READER

SPECIFIC NOTES (THIS SHEET):

1. COORDINATE LOCATION OF NEW UTILITY POLE AND ELECTRICAL SERVICE TO SITE WITH ENTERGY.
2. THE EQUIPMENT SHELTER SHALL BE PROVIDED AS A DESIGN-BUILD PRODUCT. MINIMUM CRITERIA ARE INDICATED ON THE DRAWINGS AND IN THE SPECS. DETAILED DESIGN OF THE SHELTER SHALL BE PERFORMED BY THE SHELTER VENDOR. THE SHELTER SHALL BE COMPLETELY CONSTRUCTED OFFSITE AT THE SHELTER VENDOR'S FACILITIES, AND THEN TRANSPORTED TO THE SITE AND SET INTO PLACE.
3. INSTALLATION OF CABLES AND EQUIPMENT ON THE TOWER SHALL BE PROVIDED AS A DESIGN-BUILD INSTALLATION.
4. PROVIDE STEEL REINFORCED CONCRETE DUCT BANK SIMILAR TO THAT SHOWN IN SECTION A/E1.00.

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ELECTRICAL SITE PLAN - OVERALL

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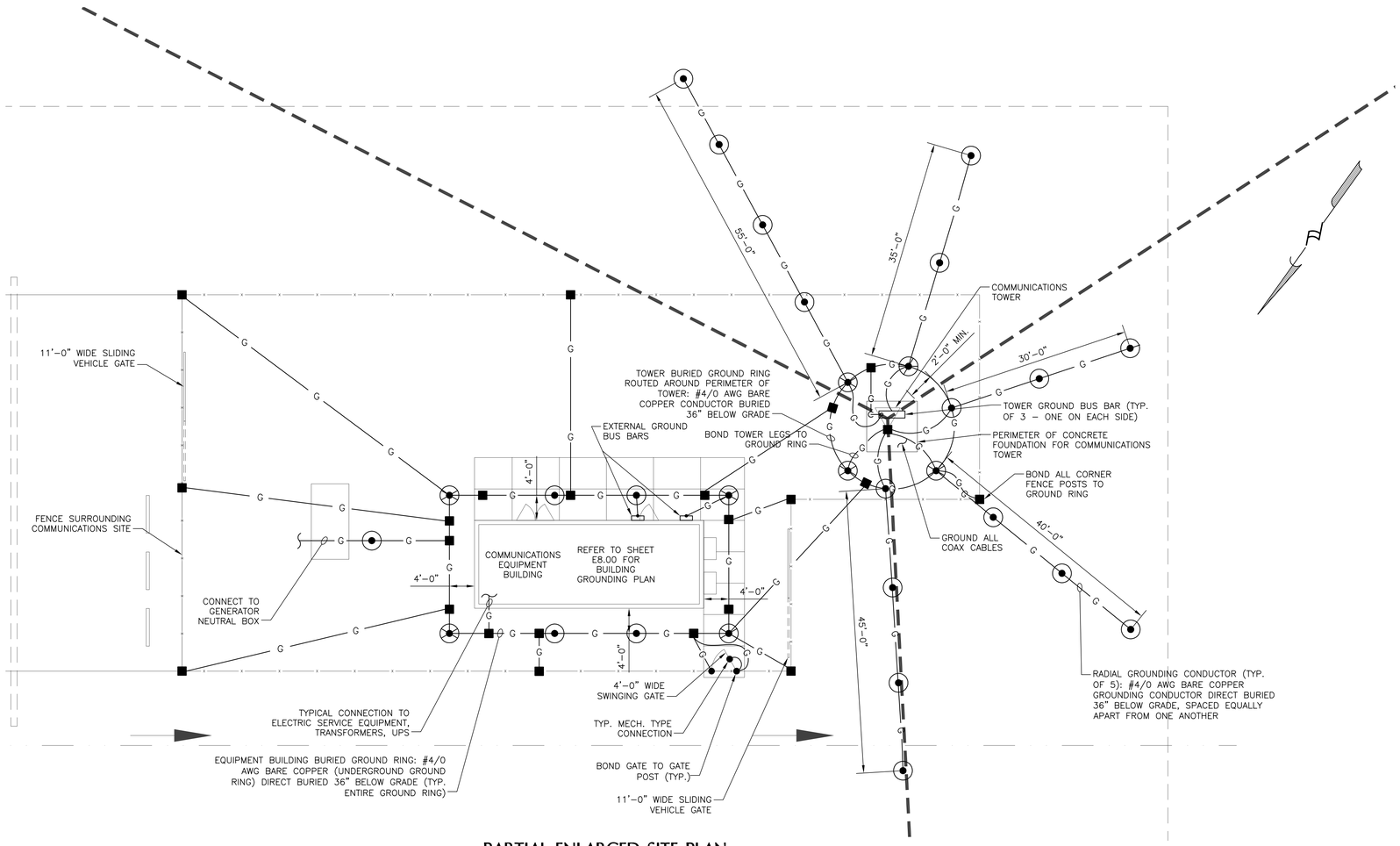
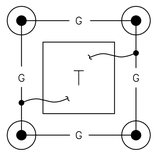
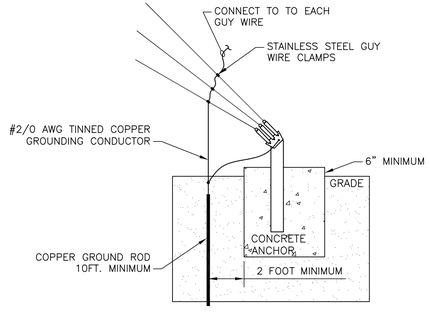


1 E1 E2 PARTIAL ENLARGED SITE PLAN - GROUNDING PLAN
1"=10'-0"



2 E1 E2 ENTERGY PAD-MOUNTED TRANSFORMER - GROUNDING PLAN
1"=10'-0"



3 E1 E2 DETAIL - GUY ANCHOR POINT GROUNDING
NOT TO SCALE

GENERAL NOTES (THIS SHEET):

1. BOND ALL EXTERNAL METALLIC OBJECTS TO THE GROUNDING ELECTRODE SYSTEM.
2. GROUNDING CONDUCTORS RISING UP FROM UNDERGROUND SHALL BE ROUTED IN PVC CONDUIT.
3. GROUNDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER.
4. STEEL REBAR OF TOWER'S CONCRETE SUPPORT FOOTINGS SHALL BE ELECTRICALLY CONNECTED TO THE TOWER'S HOLDING BOLTS.
5. BOND ALL METALLIC OBJECTS LOCATED WITHIN 10 FEET OF EXTERNAL GROUNDING ELECTRODE SYSTEM.

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PARTIAL ELECTRICAL SITE GROUNDING PLANS

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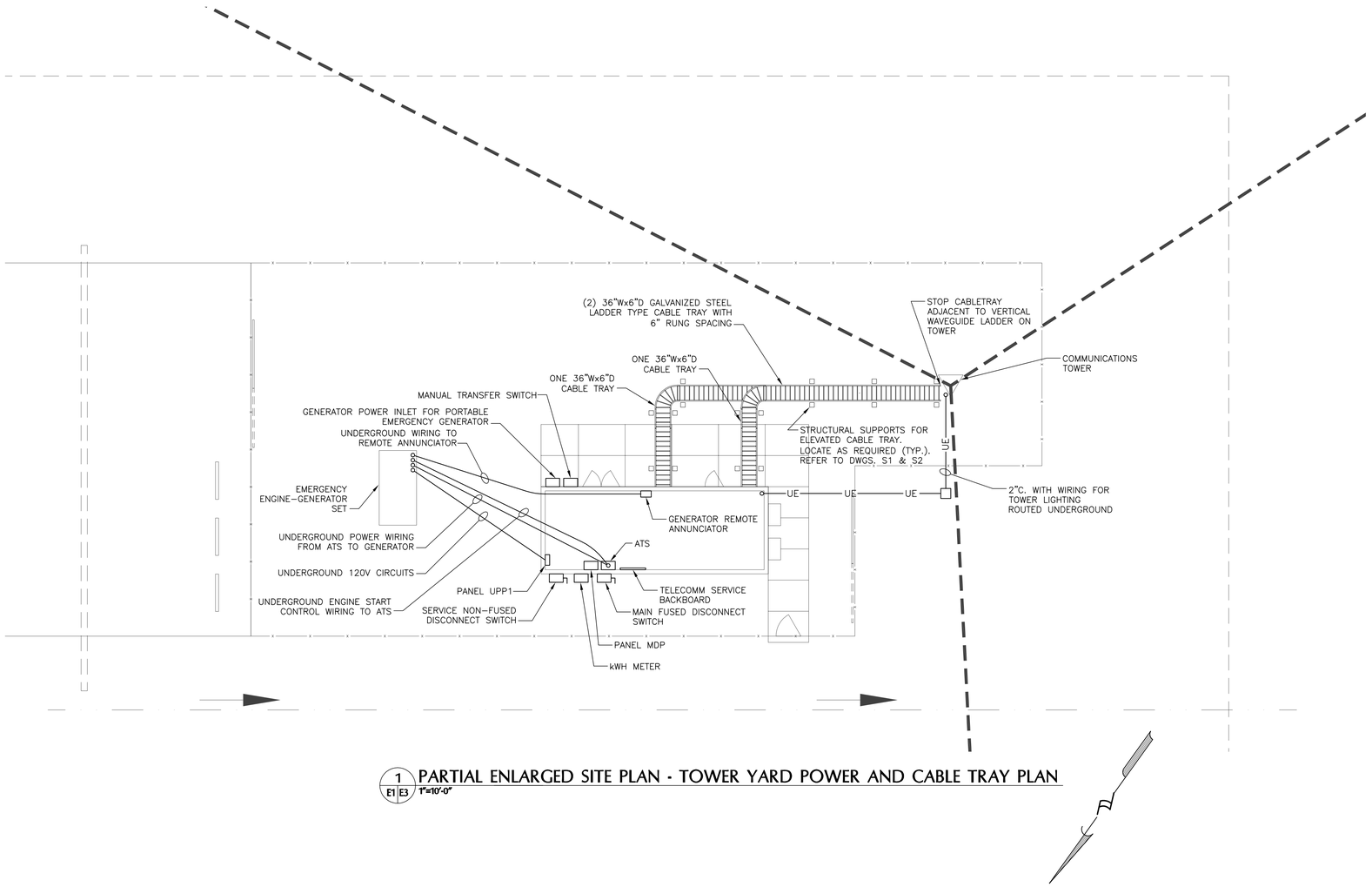

1 / E1 | E3 PARTIAL ENLARGED SITE PLAN - TOWER YARD POWER AND CABLE TRAY PLAN
1"=10'-0"

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PARTIAL ELECTRICAL SITE POWER & CABLE TRAY PLAN

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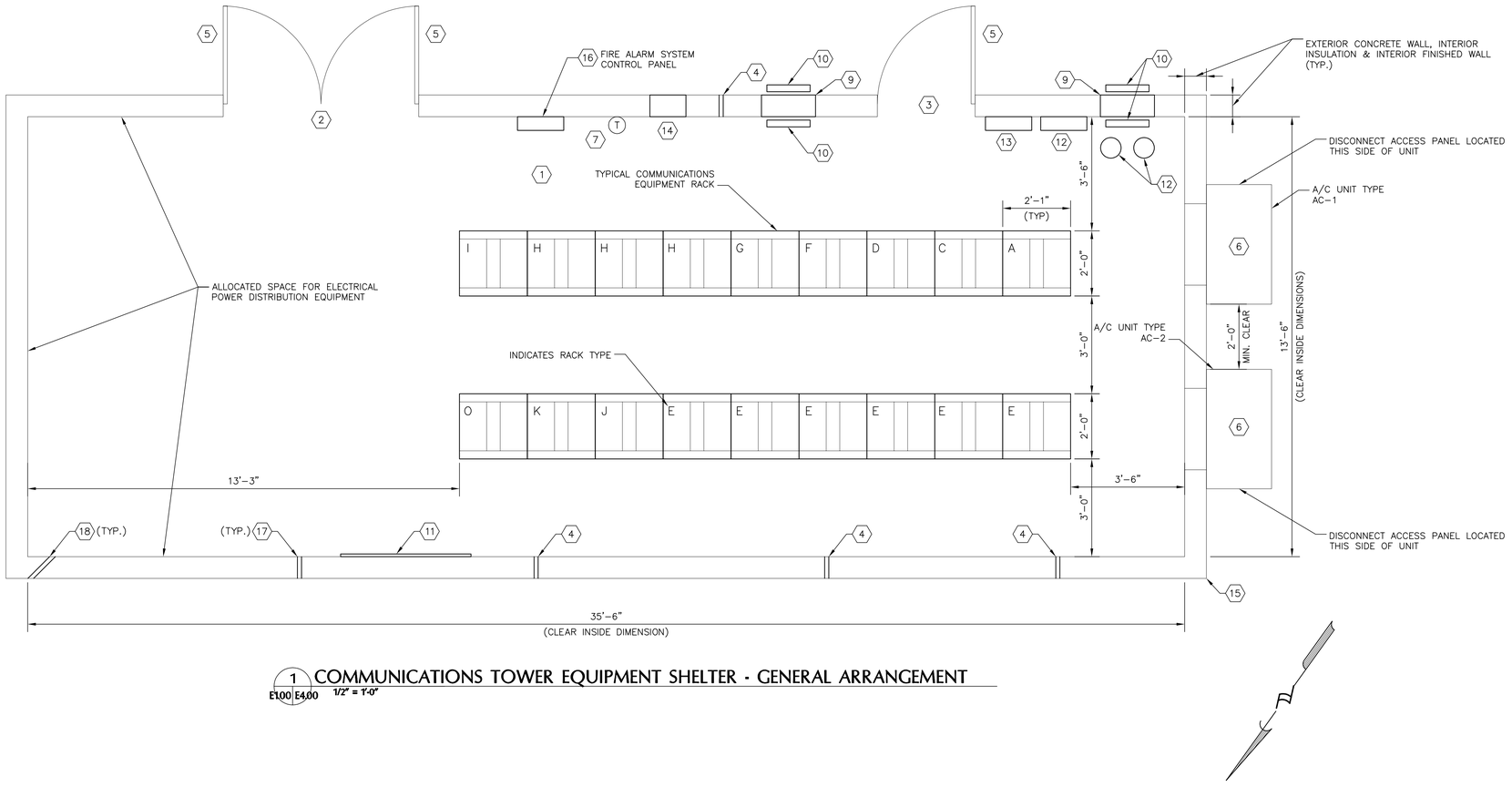

1 E1.00 E4.00 COMMUNICATIONS TOWER EQUIPMENT SHELTER - GENERAL ARRANGEMENT
1/2" = 1'-0"

COMMUNICATIONS EQUIPMENT RACK LEGEND		
TYPE	DESCRIPTION	TOTAL NO. OF RACKS
A	DSTAR REPEATER WITH TRIPLEXER	1
C	BATON ROUGE 144 MHZ LINK, VERTICAL POLARIZATION	1
D	JEFFERSON PARISH 144 MHZ LINK, VERTICAL POLARIZATION	1
E	LSP LWIN SYSTEM	6
F	GOHSEP 440 REPEATER	1
G	WARC 144 REPEATER	1
H	ACU1000	3
I	WP FIRE 155 REPEATER	1
J	WPSO 155 REPEATER	1
K	WP OHSEP 155 REPEATER	1
O	SAT INTERNET	1

BUILDING GENERAL ARRANGEMENT LEGEND	
ITEM TAG NO.	DESCRIPTION
1	COMMUNICATIONS EQUIPMENT RACK (24"Dx25"Wx7'-0"H SPACE ALLOCATED FOR EACH RACK). RACKS WILL BE FURNISHED AND INSTALLED BY OWNER
2	DOUBLE DOORS – 3'-0" EACH DOOR
3	SINGLE DOOR – 3'-0" WIDE
4	SPARE 1½" CONDUIT THIMBLE THROUGH WALL
5	DOOR ENTRY LOCKS WITH MANUAL PUSH BUTTON
6	WALL-MOUNTED SELF CONTAINED AIR CONDITIONER UNIT WITH ELECTRIC HEAT. REFER TO WALL MOUNTED AIR CONDITION UNIT SCHEDULE AND SPECIFICATION SECTION 15784
7	THERMOSTAT WITH LEAD-LAG CONTROLLER TO CONTROL TWO WALL-MOUNTED AIR CONDITIONER UNITS. BARD MC 3000-A SERIES CONTROLLER
8	THRU-WALL LOUVER FOR GENERATOR AIR DISCHARGE.
9	WAVEGUIDE CABLE ENTRY PANEL WITH WEATHERPROOF PORT ASSEMBLIES, SLEEVES, BLANK PROTECTIVE COVERS, ETC. AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION. PROVIDE 20% SPARE PORTS
10	INTERNAL AND EXTERNAL GROUNDING BAR WITH SUFFICIENT GROUNDING POSTS FOR WAVEGUIDE ENTRY PANEL
11	¾"x4'Wx7'H PLYWOOD BACKBOARD FOR TELEPHONE AND INTERNET SERVICE WIRING. PAINT WITH FIRE RESISTANT PAINT
12	FIRE SUPPRESSION SYSTEM TANK(S) & CONTROL PANEL (BUILDING MANUFACTURER SHALL DEFINE SPACE REQUIREMENTS AND ACCOMMODATE THE SYSTEM'S SPACE REQUIREMENTS)
13	TOWER LIGHTING CONTROLLER
14	EMERGENCY VENT FAN
15	PROVIDE BUILDING LIGHTNING PROTECTION SYSTEM FOR SHELTER, IN ACCORDANCE WITH NFPA 780
16	FIRE ALARM SYSTEM WITH SMOKE DETECTORS, HEAT DETECTORS, PULL STATIONS AND HORN/STROBE DEVICES
17	SLEEVED ENTRIES FOR ALL EXTERIOR WIRING ENTERING BUILDING. NUMBER AS REQUIRED
18	1" SCH. 40 PVC SLEEVES INSTALLED AT 45° NEAR BOTTOM OF WALL FOR EXIT OF GROUNDING CONDUCTORS. NUMBER AS REQUIRED

WALL MOUNTED AIR CONDITION UNITS												
TYPE	BASIS OF DESIGN	QTY.	CFM	MBH COOLING	O.A. CFM	EER	DIMENSIONS	WT(LBS)	CONFIGURATION	VOLT/PH/HZ	MCA	MOCP	HEATING kW
AC-1	BARD W70A	1	1800	67	30	9.0	44"x23"x95"H	520	RIGHT HAND	480/3/60	23	30	9
AC-2	BARD W70L	1	1800	67	30	9.0	44"x23"x95"H	520	LEFT HAND	480/3/60	23	30	9

NOTES:
1. DRAIN CONDENSATE TO GRADE.
2. INSTALL UNITS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE UNITS WITH MANUFACTURER'S CIRCUIT BREAKER DISCONNECT.
4. PROVIDE UNITS WITH MANUFACTURER'S SOLID-STATE DUAL UNIT LEAD-LAG CONTROLLER.

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EQUIPMENT SHELTER - GENERAL ARRANGEMENT

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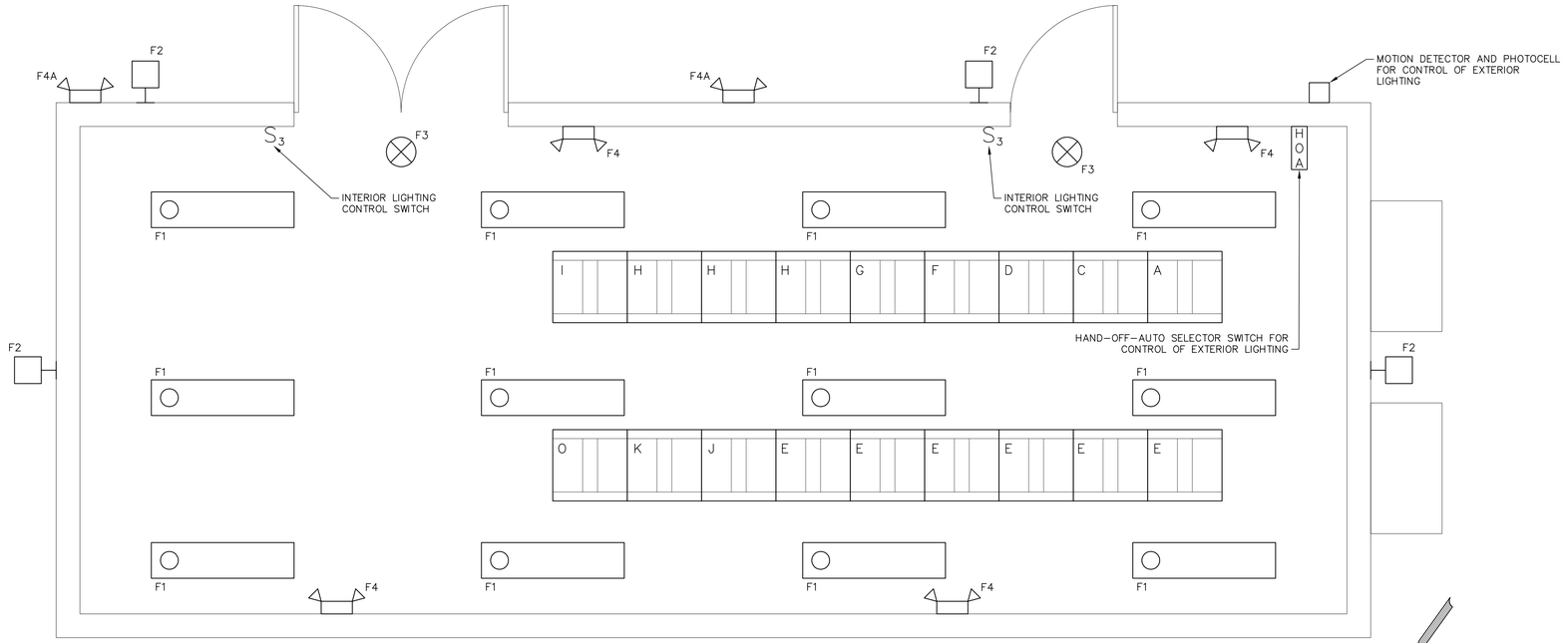
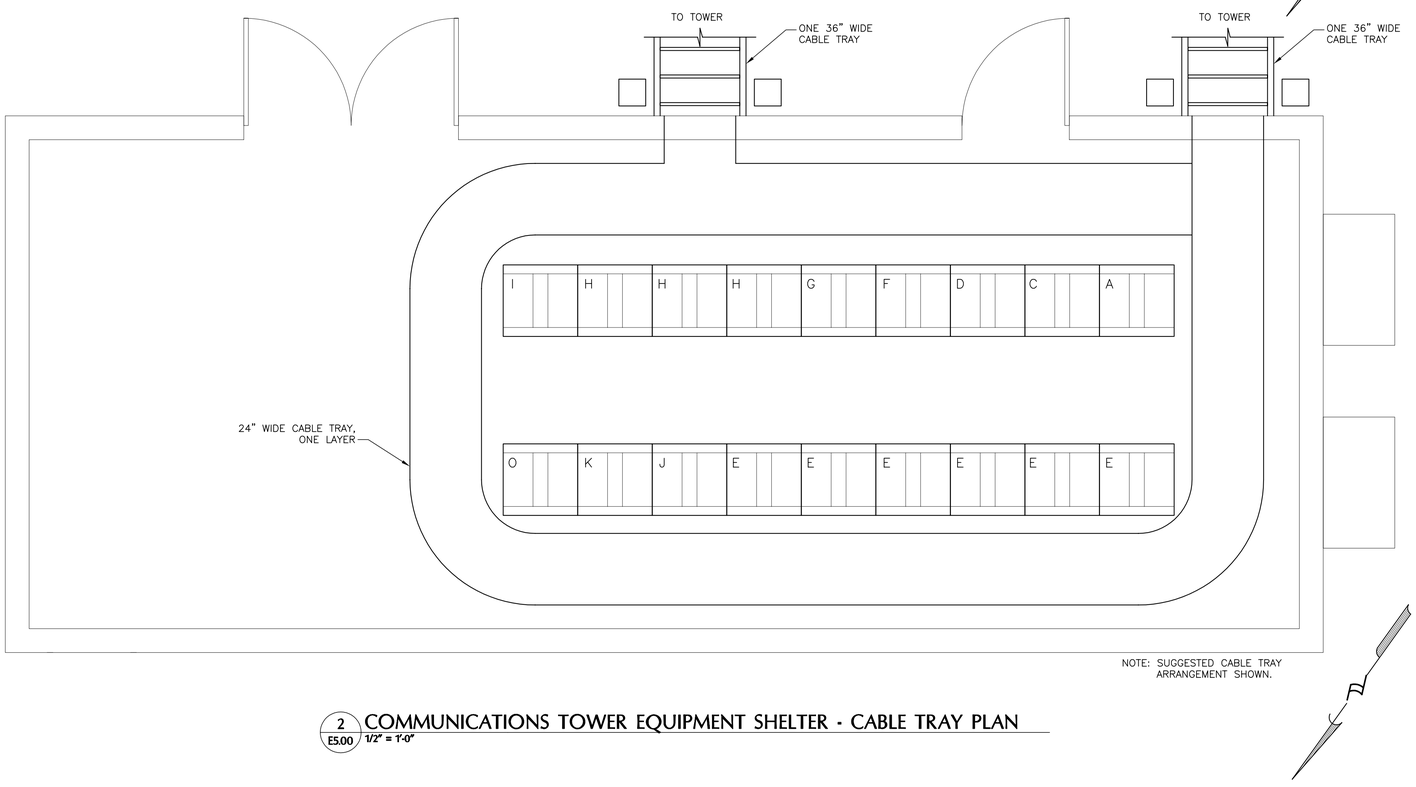


1 E5.00 **COMMUNICATIONS TOWER EQUIPMENT SHELTER - LIGHTING PLAN**
1/2" = 1'-0"



2 E5.00 **COMMUNICATIONS TOWER EQUIPMENT SHELTER - CABLE TRAY PLAN**
1/2" = 1'-0"

LIGHTING FIXTURE SCHEDULE		
FIXTURE TYPE	DESCRIPTION	LAMP
F1	2-LAMP, 4 FOOT LONG FLUORESCENT FIXTURE WITH WRAP-AROUND LENS	32W T8
F2	100W METAL HALIDE WALL-PACK	100W MH
F3	LED EXIT SIGN WITH SELF-CONTAINED BATTERY AND BATTERY CHARGER	–
F4	EMERGENCY UNIT LIGHTING FIXTURE WITH SELF-CONTAINED BATTERY AND BATTERY CHARGER	–
F4A	SAME AS F4 EXCEPT NEMA 4X & RATED FOR EXTERIOR WET LOCATIONS	

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EQUIPMENT SHELTER LIGHTING AND CABLE TRAY PLANS

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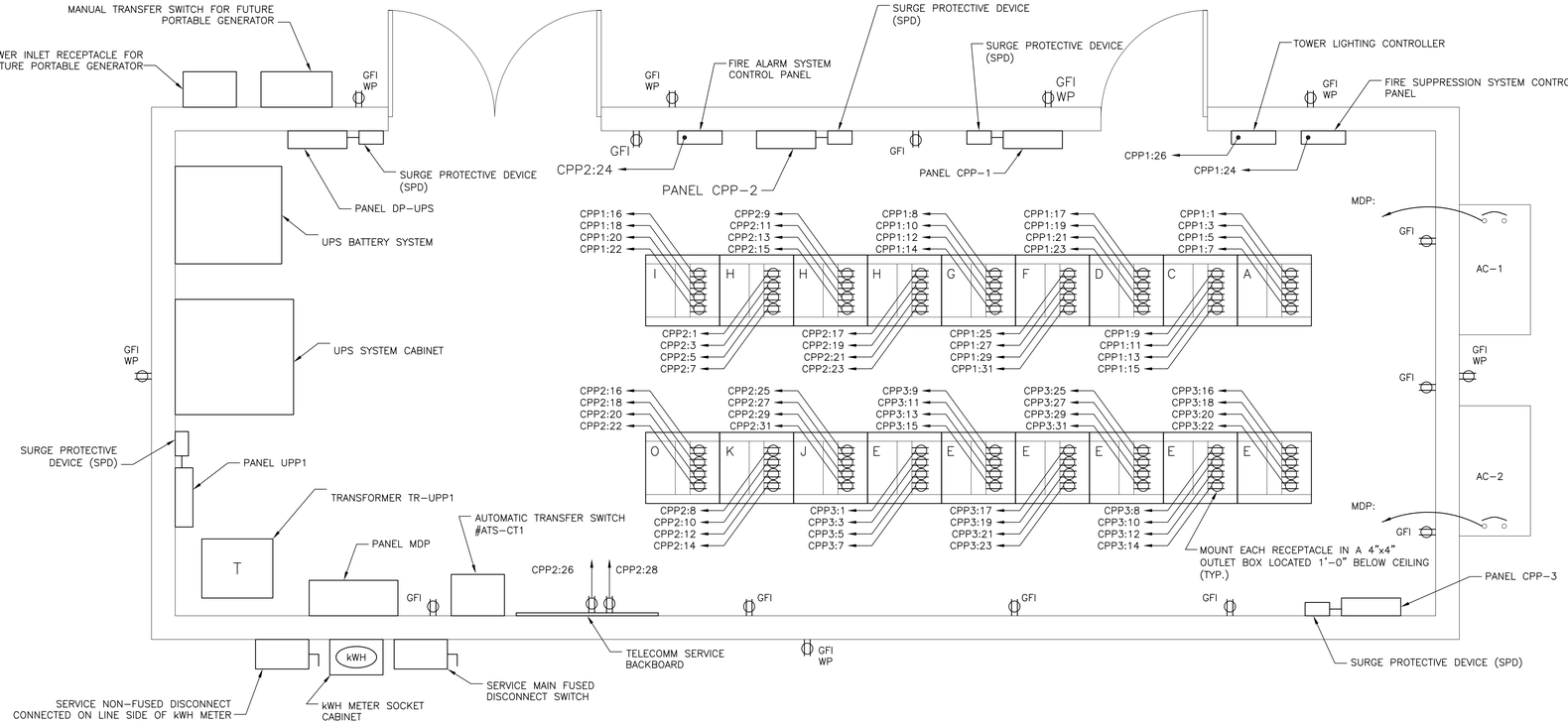
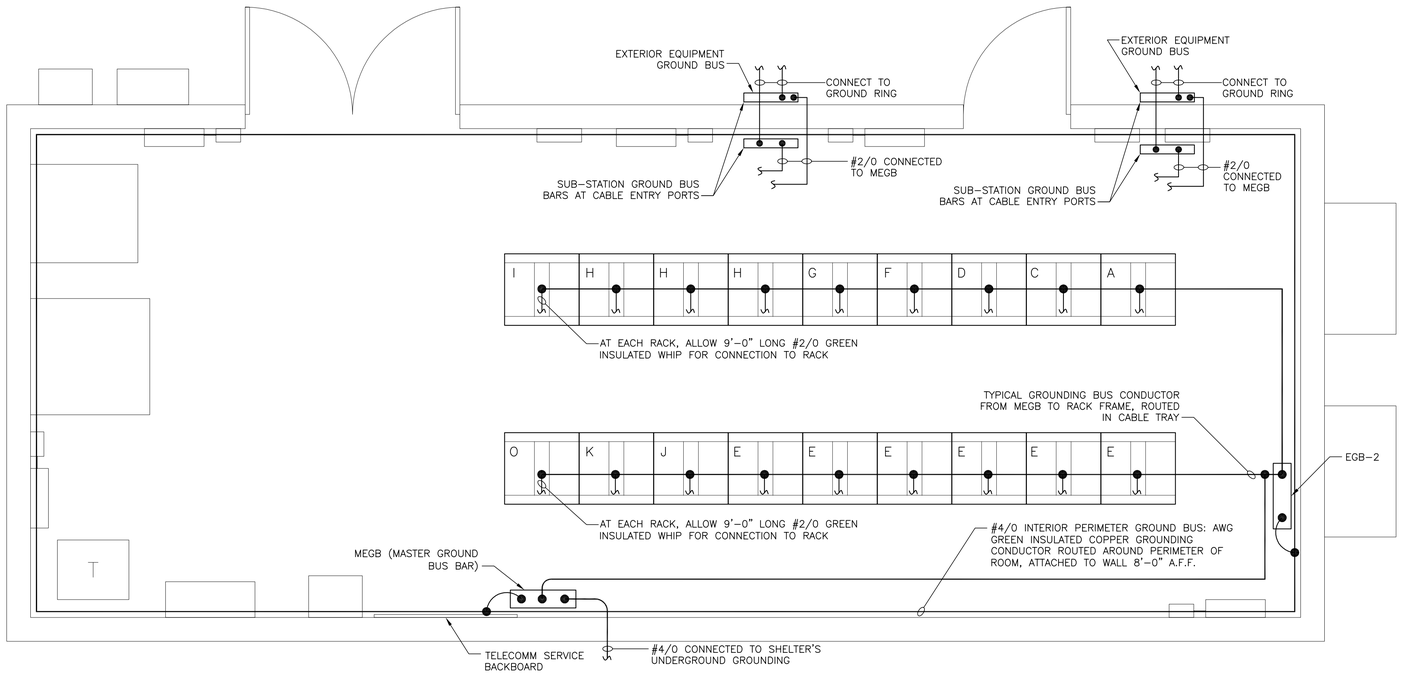


1 E6.00 **COMMUNICATIONS TOWER EQUIPMENT SHELTER - POWER PLAN**
1/2" = 1'-0"

GENERAL NOTES (POWER PLAN):

1. SUGGESTED ARRANGEMENT OF ELECTRICAL DISTRIBUTION SYSTEM EQUIPMENT IS SHOWN. ADJUST EQUIPMENT ARRANGEMENT AS REQUIRED TO ACCOMMODATE DIMENSIONS OF EQUIPMENT PROVIDED.
2. EACH CIRCUIT HOMERUN INDICATED IS A DEDICATED RACEWAY ROUTED TO THE INDICATED PANELBOARD.
3. ALL CIRCUIT HOMERUNS SHALL CONTAIN A SEPARATE, DEDICATED NEUTRAL CONDUCTOR; SEPARATE CIRCUITS SHALL NOT SHARE A NEUTRAL CONDUCTOR.
4. PROVIDE 1 CIRCUIT FOR 4 EXTERIOR RECEPTACLES ON SOUTH SIDE OF SHELTER. PROVIDE 1 CIRCUIT FOR 3 EXTERIOR RECEPTACLES ON NORTH, EAST AND WEST SIDES OF SHELTER.
5. PROVIDE 3 CIRCUITS FOR INTERIOR RECEPTACLES, WITH 3 RECEPTACLES PER CIRCUIT.
6. PROVIDE THIMBLES IN SHELTER WALLS AS REQUIRED TO ROUTE EXTERIOR WIRING INTO THE SHELTER.



2 E6.00 **COMMUNICATIONS TOWER EQUIPMENT SHELTER - GROUNDING PLAN**
1/2" = 1'-0"

GENERAL NOTES (GROUNDING PLAN):

1. THE GROUNDING REQUIREMENTS SHOWN ARE MINIMUM REQUIREMENTS, BUT DO NOT INCLUDE THE COMPLETE GROUNDING SYSTEM INSTALLATION. GROUNDING INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF MOTOROLA STANDARDS FOR COMMUNICATION SITES (68P81089E50-B).
2. PROVIDE A GREEN INSULATED #2/0 GROUNDING CONDUCTOR THROUGHOUT ALL CABLE TRAYS, AND CONNECTED TO MEGB.
3. BOND ALL METALLIC OBJECTS INSIDE THE SHELTER (ELECTRICAL EQUIPMENT, DOORS, HVAC EQUIPMENT, CONTROL PANELS, LOUVERS, ETC.) TO THE INTERIOR PERIMETER GROUND BUS TO FORM A SECURE GROUNDING REFERENCE STRUCTURE WITH #2 GREEN INSULATED CONDUCTOR.

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EQUIPMENT SHELTER POWER & GROUNDING PLANS

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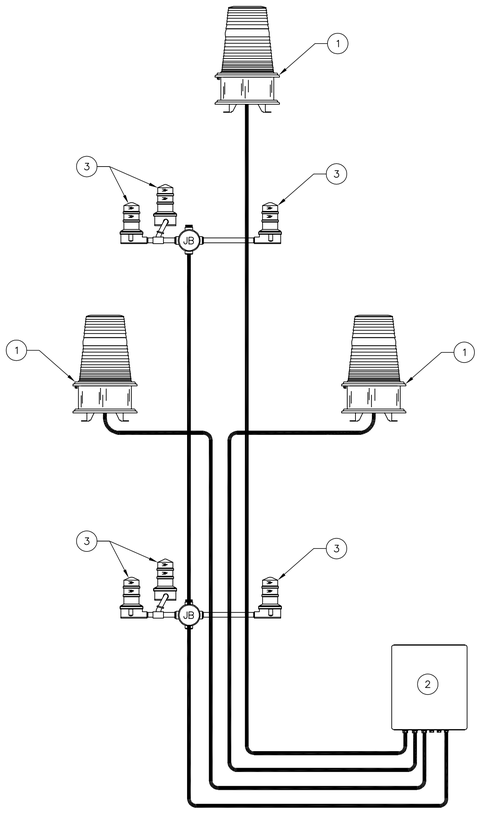
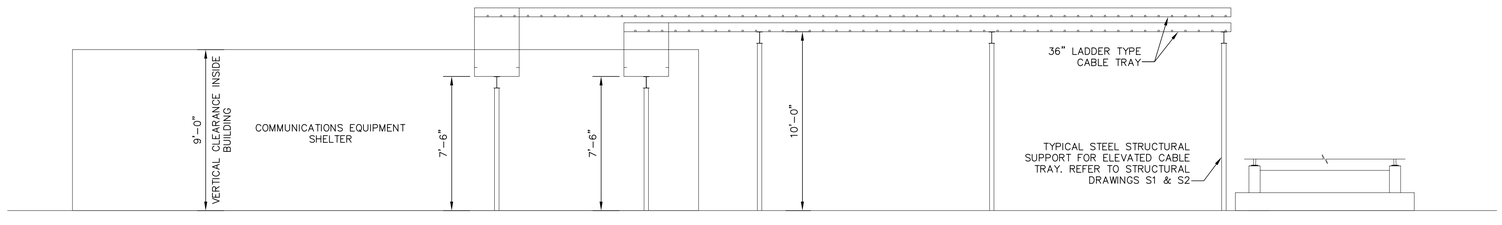


1 E7.00 DUAL BEACON CONNECTION
NOT TO SCALE

NO.	PART DESCRIPTION
1	DUAL-LED BEACON
2	DUAL CONTROLLER
3	FAA-810



2 E7.00 SECTION
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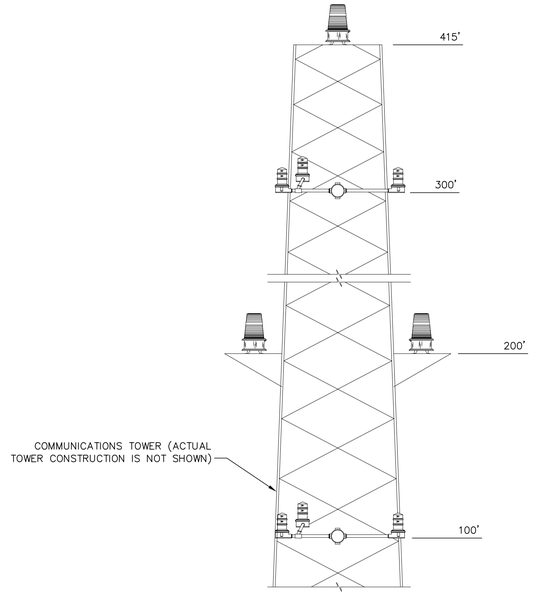

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DETAILS - EQUIPMENT SHELTER & TOWER LIGHTING

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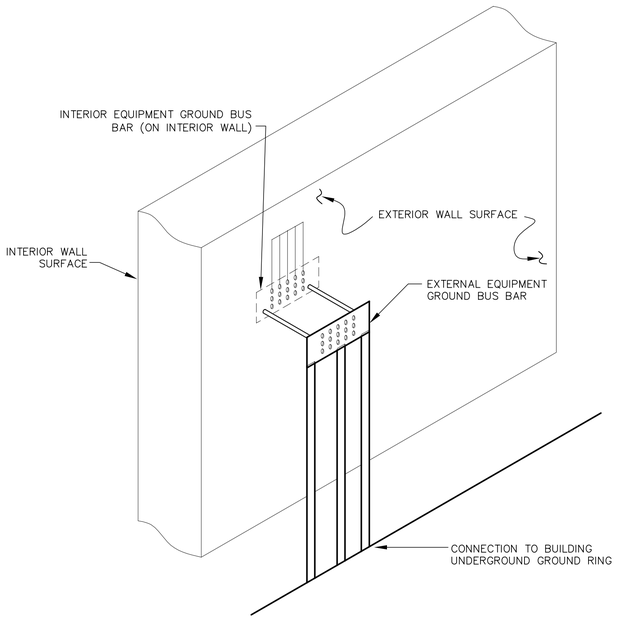
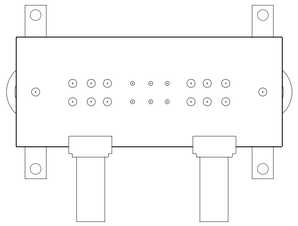
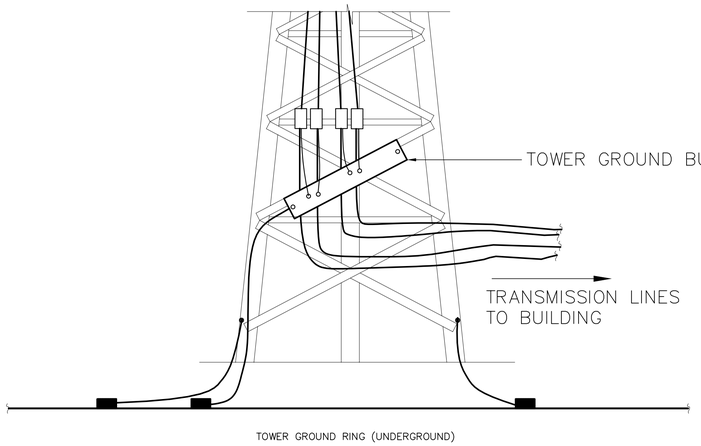


1 E8.00 **INTEGRATED CABLE ENTRY PORT WITH GROUND STRAPS**
NOT TO SCALE



2 E8.00 **EXTERNAL GROUND BUS BAR**
NOT TO SCALE



3 E8.00 **TYPICAL TOWER GROUND BUS BARS**
NOT TO SCALE

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Drawn By: MB
Checked By: DRD

Revisions:

WASHINGTON PARISH COMMUNICATIONS TOWER

DOLLAR ROAD
WASHINGTON PARISH, LOUISIANA

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DETAILS - EQUIPMENT SHELTER

Sheet Number:
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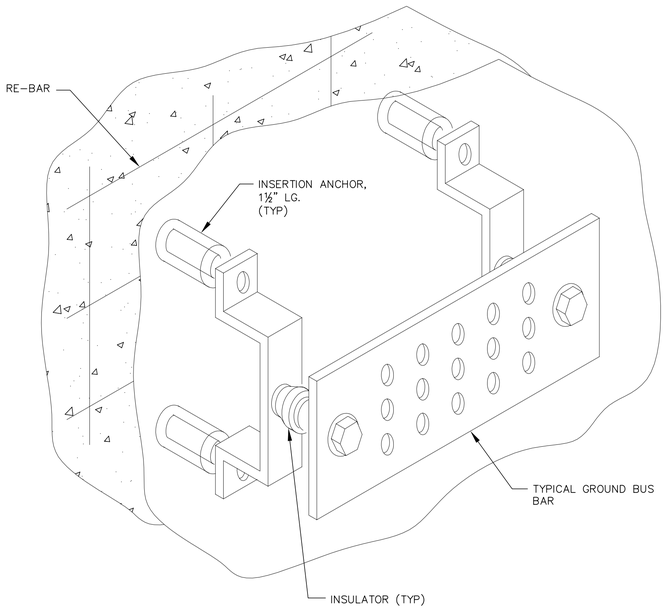
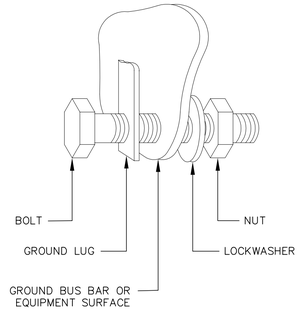


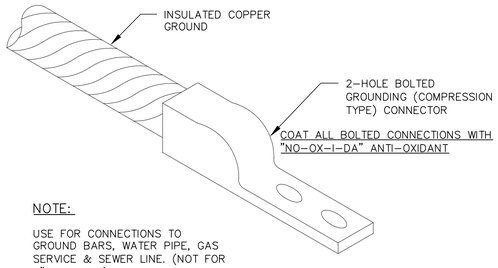
GROUND BUS MOUNTING DETAIL
SCALE: NONE

GROUND BUS SPECIFICATIONS

MATERIAL:	BARE, SOLID ALLOY 110 (99.9%) COPPER BUS BAR OR PLATE OF ONE PIECE CONSTRUCTION
	EXTERNAL GROUND BUS: ELECTROTIN-PLATED
'MGB' DIMENSIONS:	WIDTH: 6", THICKNESS: ¼", LENGTH: TO SUIT (12" MINIMUM), SPARE: MIN. 4 POSITIONS
'xGB' DIMENSIONS:	WIDTH: 4", THICKNESS: ¼", LENGTH: TO SUIT (12" MINIMUM), SPARE: MIN. 4 POSITIONS
MOUNTING BRACKETS:	STAINLESS STEEL
INSULATORS:	POLYESTER FIBERGLASS 15kV MINIMUM DIELECTRIC STRENGTH FLAME RESISTANT PER UL 94 VO CLASSIFICATION
CONDUCTOR MOUNTING HOLES:	DEPENDENT ON NUMBER OF CONDUCTORS TO BE ATTACHED HOLES TO MATCH TWO-HOLE LUGS ON 2" CENTERS



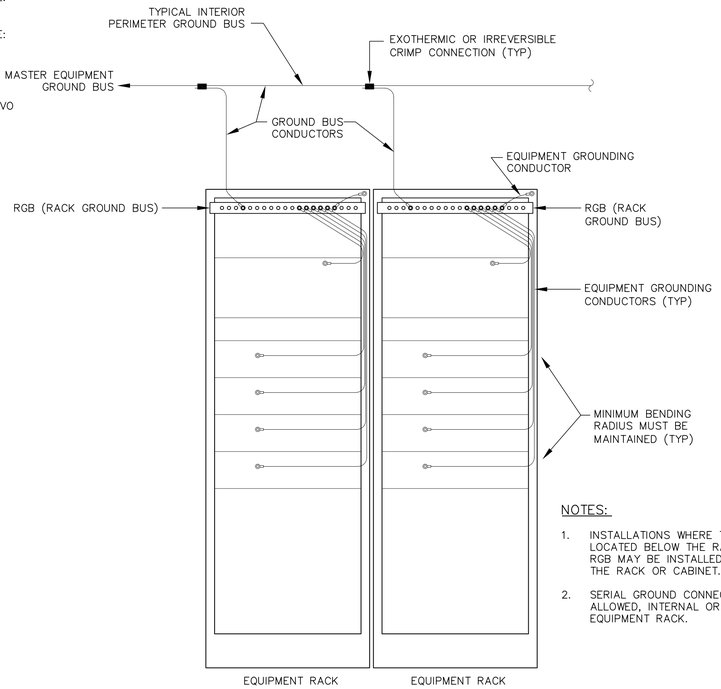
GROUND LUG ASSEMBLY DETAIL
SCALE: NONE



NOTE:

USE FOR CONNECTIONS TO GROUND BARS, WATER PIPE, GAS SERVICE & SEWER LINE. (NOT FOR 4" FIRE LINE)

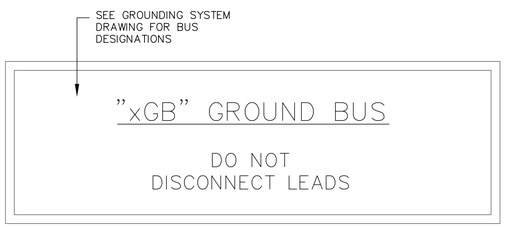
COMPRESSION CONNECTOR DETAIL
SCALE: NONE



NOTES:

1. INSTALLATIONS WHERE THE GROUND BUS IS LOCATED BELOW THE RACK OR CABINET, THE RGB MAY BE INSTALLED IN THE BOTTOM OF THE RACK OR CABINET.
2. SERIAL GROUND CONNECTION IS NOT ALLOWED, INTERNAL OR EXTERNAL TO EQUIPMENT RACK.

COMMUNICATION BONDED TO GROUND BUS CONDUCTOR
SCALE: NONE



NOTE:

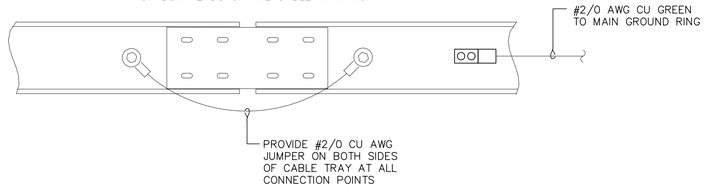
1. LABEL ALL GROUND WIRE CONNECTIONS WITH DESTINATION I.D.
2. FASTEN SIGN TO WALL ADJACENT TO BUS.

TYPICAL SIGN AT ALL GROUND BUSSES

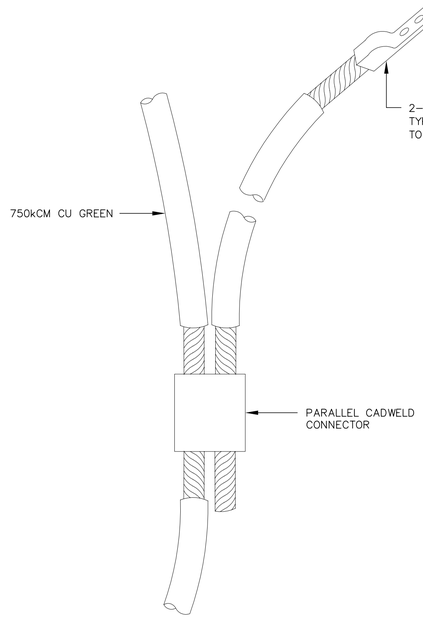
GROUND BUS SIGN DETAIL
SCALE: NONE

NOTES:

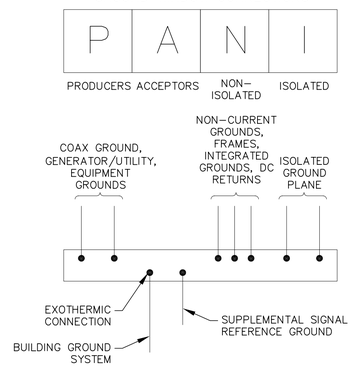
1. PROVIDE BONDING JUMPERS ON BOTH SIDES OF TRAY AT ALL TRAY JOINTS.
2. PROVIDE BONDING STRAP TO BOND TRAY TO THE EQUIPMENT RACKS IT SERVES. THE BONDING JUMPER SHALL BE PLACED ON BOTH ENDS OF THE CABLE TRAY RUN.



CABLE TRAY GROUNDING DETAIL
SCALE: NONE



GROUND JUMPER TO MAIN GROUND CONNECTION DETAIL
SCALE: NONE



GROUND BUS WIRING DETAIL
SCALE: NONE

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GROUNDING DETAILS

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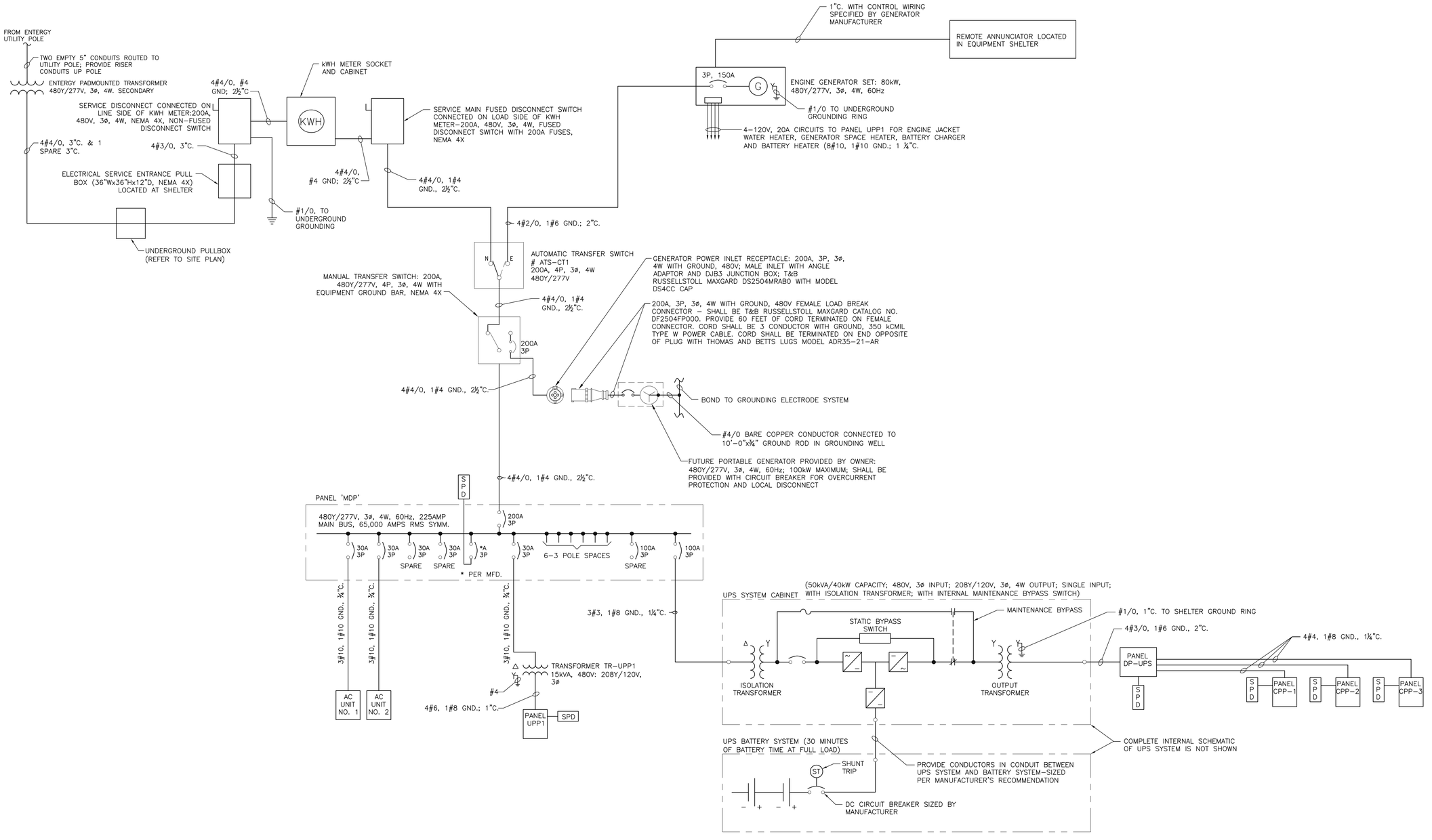

1 E10.00 ELECTRICAL ONE-LINE DIAGRAM
NOT TO SCALE

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ELECTRICAL ONE-LINE DIAGRAM

Sheet Number:
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PANEL: CPP–1
LOCATION: COMM. TOWER EQUIP. SHELTER
FEEDER SOURCE: PANEL DP–UPS VIA UPS

VOLTAGE: 208Y/120V, 3ø, 4W
ENCLOSURE: NEMA 1, SURFACE MOUNT
125A BUS, 70A MAIN BRKR.
22,000 AIC SYM

CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER POLE	BREAKER AMP	A ø B ø C ø 70AT	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION LOCATION	CKT. NO.
1	COMMUNICATIONS EQUIPMENT RACK "A"	1	20					2
3	COMMUNICATIONS EQUIPMENT RACK "A"	1	20		*	3	SPD	4
5	COMMUNICATIONS EQUIPMENT RACK "A"	1	20					6
7	COMMUNICATIONS EQUIPMENT RACK "A"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "G"	8
9	COMMUNICATIONS EQUIPMENT RACK "C"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "G"	10
11	COMMUNICATIONS EQUIPMENT RACK "C"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "G"	12
13	COMMUNICATIONS EQUIPMENT RACK "C"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "G"	14
15	COMMUNICATIONS EQUIPMENT RACK "C"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "I"	16
17	COMMUNICATIONS EQUIPMENT RACK "D"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "I"	18
19	COMMUNICATIONS EQUIPMENT RACK "D"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "I"	20
21	COMMUNICATIONS EQUIPMENT RACK "D"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "I"	22
23	COMMUNICATIONS EQUIPMENT RACK "D"	1	20		20	1	FIRE SUPPRESSION SYSTEM CONTROL PANEL	24
25	COMMUNICATIONS EQUIPMENT RACK "F"	1	20		30	1	TOWER LIGHTING CONTROLLER	26
27	COMMUNICATIONS EQUIPMENT RACK "F"	1	20		20	1	SPARE	28
29	COMMUNICATIONS EQUIPMENT RACK "F"	1	20		20	1	SPARE	30
31	COMMUNICATIONS EQUIPMENT RACK "F"	1	20		20	1	SPARE	32
33	SPARE	1	20		20	1	SPARE	34
35	SPARE	1	20		20	1	SPARE	36
37	SPACE				20	1	SPARE	38
39	SPACE						SPACE	40
41	SPACE						SPACE	42

NEUTRAL BUS (200% RATED) ____ * CIRCUIT BREAKER AMP TRIP SHALL BE SIZED PER SPD MANUFACTERER RECOMMENDATION GROUND BUS ____

PANEL: CPP–3
LOCATION: COMM. TOWER EQUIP. SHELTER
FEEDER SOURCE: PANEL DP–UPS VIA UPS

VOLTAGE: 208Y/120V, 3ø, 4W
ENCLOSURE: NEMA 1, SURFACE MOUNT
125A BUS, 70A MAIN BRKR.
22,000 AIC SYM

CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER POLE	BREAKER AMP	A ø B ø C ø 70AT	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION LOCATION	CKT. NO.
1	COMMUNICATIONS EQUIPMENT RACK "E1"	1	20					2
3	COMMUNICATIONS EQUIPMENT RACK "E1"	1	20		*	3	SPD	4
5	COMMUNICATIONS EQUIPMENT RACK "E1"	1	20					6
7	COMMUNICATIONS EQUIPMENT RACK "E1"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "E5"	8
9	COMMUNICATIONS EQUIPMENT RACK "E2"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "E5"	10
11	COMMUNICATIONS EQUIPMENT RACK "E2"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "E5"	12
13	COMMUNICATIONS EQUIPMENT RACK "E2"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "E5"	14
15	COMMUNICATIONS EQUIPMENT RACK "E2"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "E6"	16
17	COMMUNICATIONS EQUIPMENT RACK "E3"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "E6"	18
19	COMMUNICATIONS EQUIPMENT RACK "E3"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "E6"	20
21	COMMUNICATIONS EQUIPMENT RACK "E3"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "E6"	22
23	COMMUNICATIONS EQUIPMENT RACK "E3"	1	20		20	1	SPARE	24
25	COMMUNICATIONS EQUIPMENT RACK "E4"	1	20		30	1	SPARE	26
27	COMMUNICATIONS EQUIPMENT RACK "E4"	1	20		20	1	SPARE	28
29	COMMUNICATIONS EQUIPMENT RACK "E4"	1	20		20	1	SPARE	30
31	COMMUNICATIONS EQUIPMENT RACK "E4"	1	20		20	1	SPARE	32
33	SPARE	1	20		20	1	SPARE	34
35	SPARE	1	20				SPACE	36
37	SPACE						SPACE	38
39	SPACE						SPACE	40
41	SPACE						SPACE	42

NEUTRAL BUS (200% RATED) ____ * CIRCUIT BREAKER AMP TRIP SHALL BE SIZED PER SPD MANUFACTERER RECOMMENDATION GROUND BUS ____

PANEL: UPP1
LOCATION: COMM. TOWER EQUIP. BLDG.
FEEDER SOURCE: MDP VIA TR–UPP1

VOLTAGE: 208Y/120V, 3ø, 4W
ENCLOSURE: NEMA 1 SURFACE MOUNT
125A BUS, 50A MAIN BRKR.
22,000 AIC SYM

CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER POLE	BREAKER AMP	A ø B ø C ø 50AT	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION LOCATION	CKT. NO.
1	INTERIOR SHELTER RECEPTACLES	1	20					2
3	INTERIOR SHELTER RECEPTACLES	1	20		*	3	TVSS	4
5	INTERIOR SHELTER RECEPTACLES	1	20					6
7	INTERIOR SHELTER LIGHTING	1	20		20	1	GENERATOR BATTERY CHARGER	8
9	EXTERIOR SHELTER LIGHTING	1	20		20	1	ENGINE JACKET WATER HEATER	10
11	EXTERIOR SHELTER RECEPTACLES	1	20		20	1	GENERATOR SPACE HEATER	12
13	EXTERIOR SHELTER RECEPTACLES	1	20		20	1	GENERATOR BATTERY HEATER	14
15		1	20		20	1	SHELTER EMERGENCY VENT FAN	16
17		1	20		20	1		18
19		1	20		20	1		20
21		1	20		20	1		22
23		1	20		20	1		24
25		1	20		30	1		26
27		1	20		20	1		28
29		1	20		20	1		30
31		1	20		20	1		32
33		1	20		20	1		34
35		1	20		20	1		36
37		1	20		20	1		38
39		1	20		20	1		40
41		1	20		20	1		42

NEUTRAL BUS ____ * CIRCUIT BREAKER AMP TRIP SHALL BE SIZED PER SPD MANUFACTERER RECOMMENDATION GROUND BUS ____

PANEL: CPP–2
LOCATION: COMM. TOWER EQUIP. SHELTER
FEEDER SOURCE: PANEL DP–UPS VIA UPS

VOLTAGE: 208Y/120V, 3ø, 4W
ENCLOSURE: NEMA 1, SURFACE MOUNT
125A BUS, 70A MAIN BRKR.
22,000 AIC SYM

CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER POLE	BREAKER AMP	A ø B ø C ø 70AT	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION LOCATION	CKT. NO.
1	COMMUNICATIONS EQUIPMENT RACK "H1"	1	20					2
3	COMMUNICATIONS EQUIPMENT RACK "H1"	1	20		*	3	SPD	4
5	COMMUNICATIONS EQUIPMENT RACK "H1"	1	20					6
7	COMMUNICATIONS EQUIPMENT RACK "H1"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "K"	8
9	COMMUNICATIONS EQUIPMENT RACK "H2"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "K"	10
11	COMMUNICATIONS EQUIPMENT RACK "H2"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "K"	12
13	COMMUNICATIONS EQUIPMENT RACK "H2"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "K"	14
15	COMMUNICATIONS EQUIPMENT RACK "H2"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "O"	16
17	COMMUNICATIONS EQUIPMENT RACK "H3"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "O"	18
19	COMMUNICATIONS EQUIPMENT RACK "H3"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "O"	20
21	COMMUNICATIONS EQUIPMENT RACK "H3"	1	20		20	1	COMMUNICATIONS EQUIPMENT RACK "O"	22
23	COMMUNICATIONS EQUIPMENT RACK "H3"	1	20		20	1	FIRE ALARM SYSTEM CONTROL PANEL	24
25	COMMUNICATIONS EQUIPMENT RACK "J"	1	20		30	1	RECEPTACLE ON TELECOMM BACKBOARD	26
27	COMMUNICATIONS EQUIPMENT RACK "J"	1	20		20	1	RECEPTACLE ON TELECOMM BACKBOARD	28
29	COMMUNICATIONS EQUIPMENT RACK "J"	1	20		20	1	SPARE	30
31	COMMUNICATIONS EQUIPMENT RACK "J"	1	20		20	1	SPARE	32
33	SPARE	1	20		20	1	SPARE	34
35	SPARE	1	20		20	1	SPARE	36
37	SPACE				20	1	SPARE	38
39	SPACE				20	1	SPARE	40
41	SPACE						SPACE	42

NEUTRAL BUS (200% RATED) ____ * CIRCUIT BREAKER AMP TRIP SHALL BE SIZED PER SPD MANUFACTERER RECOMMENDATION GROUND BUS ____

PANEL: DP–UPS
LOCATION: COMM. TOWER EQUIP. SHELTER
FEEDER SOURCE: UPS

VOLTAGE: 208Y/120V, 3ø, 4W
ENCLOSURE: NEMA 1 SURFACE MOUNT
225A BUS, 175A MAIN BRKR.
22,000 AIC SYM

CKT. NO.	LOAD DESCRIPTION LOCATION	BREAKER POLE	BREAKER AMP	A ø B ø C ø 175AT	BREAKER AMP	BREAKER POLE	LOAD DESCRIPTION LOCATION	CKT. NO.
1								2
3	PANEL CPP–1	3	70		*	3	SPD	4
5								6
7								8
9	PANEL CPP–2	3	70		70	3	PANEL CPP–3	10
11								12
13								14
15	SPARE	3	70			3	SPACE	16
17								18
19	SPARE	1	20		20	1	SPARE	20
21	SPARE	1	20		20	1	SPARE	22
23	SPARE	1	20		20	1	SPARE	24
25	SPARE	1	20		30	1	SPARE	26
27	SPARE	1	20		20	1	SPARE	28
29	SPARE	1	20		20	1	SPARE	30
31	SPACE						SPACE	32
33	SPACE						SPACE	34
35	SPACE						SPACE	36
37	SPACE						SPACE	38
39	SPACE						SPACE	40
41	SPACE						SPACE	42

NEUTRAL BUS (200% RATED) ____ * CIRCUIT BREAKER AMP TRIP SHALL BE SIZED PER SPD MANUFACTERER RECOMMENDATION GROUND BUS ____

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ELECTRICAL PANEL SCHEDULES

Sheet Number:
E11.00

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* PROVIDE ANTENNA CABLE AND ASSOCIATED CONNECTORS & LIGHTNING PROTECTION DEVICES AS ALTERNATE NO. 1 BID ITEM

COMMUNICATIONS TOWER ANTENNA SCHEDULE

ANTENNA REF #	ANTENNA TYPE (NOTE 3)	DESCRIPTION	* ANTENNA FEEDLINE CABLE (NOTE 4)	* RF LIGHTNING PROTECTION DEVICE – POLYPHASER PRODUCT No. (NOTE 5)	ANTENNA LENGTH	ANTENNA TOP HEIGHT (FEET)	ANTENNA WEIGHT	ORIENTATION	* CABLE CONNECTOR ANTENNA END (NOTE 6)	* CABLE CONNECTOR POLYPHASER END (NOTE 6)	EQUIPMENT BUILDING No. (NOTE 7)	OUTPUT FREQUENCY (MHZ)	INPUT FREQUENCY (MHZ)	ANTENNA TYPE	ANTENNA GAIN (DB)	ANTENNA SURFACE AREA (SQ. FT.)	SUPPLIED AND INSTALLED BY CONTRACTOR	MOUNTING INFORMATION
1	NCG COMPANY, GP–21, 1200 MHZ	DSTAR REPEATER	TRILOGY, AIRCELL, 1⅝", AT158J50	IS–50NX–C2–ME	8.0 FT.	408	2.5 LBS.	OMNI	N	N	1	1253.0000	1253.0000	SIDE MOUNTED VERTICLE	14.9	0.32	YES	SIDE MOUNTED VERT – 2 FT. STANDOFF BRACKET
2	KRECO, VB155A	BATON ROUGE 144 MHZ LINK, VERT POLARIZATION	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	3.5 FT.	400	6.0 LBS.	245	N	N	1	146.2600	146.8600	CENTER MOUNTED YAGI	8.0	0.36	YES	1¼" THREADED PIPE MOUNT
3	KRECO, VB155A	JEFFERSON PARISH 144 MHZ LINK, VERT. POLARIZATION	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	3.5 FT.	395	6.0 LBS.	180	N	N	1	146.2600	146.8600	CENTER MOUNTED YAGI	8.0	0.36	YES	YAGI MOUNT BOOM COG WITH OFFSET
4	BIRD, 101–83B–09–03/03N	LWIN REPEATER	TRILOGY, AIRCELL, 1⅝", AT158J50	IS–B50HN–C2	10 FT.	385	45 LBS.	OMNI	7/16DIN	N	1	LWIN	LWIN	SIDE MOUNTED DIPOLE	9.0	2.00	YES	TOP MOUNTED – 6 FT STANDOFF BRACKET
5	BIRD, 101–83B–09–03/03N	LWIN REPEATER	TRILOGY, AIRCELL, 1⅝", AT158J50	IS–B50HN–C2	10 FT.	370	45 LBS.	OMNI	7/16DIN	N	1	LWIN	LWIN	SIDE MOUNTED DIPOLE	9.0	2.00	YES	TOP MOUNTED – 6 FT STANDOFF BRACKET
6	BIRD, BA80–41–DIN	DSTAR REPEATER	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	20 FT.	350	68 LBS.	OMNI	7/16DIN	N	1	147.4400	144.9400	SIDE MOUNTED DIPOLE	6.0	8.90	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
7	BIRD, BA80–67–DIN	DSTAR REPEATER	TRILOGY, AIRCELL, 1¼", AT114J50	IS–B50HN–C2	10 FT.	330	18 LBS.	OMNI	7/16DIN	N	1	444.5875	449.5880	SIDE MOUNTED DIPOLE	6.0	3.30	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
8	BIRD, BA80–41–DIN	WARC REPEATER	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	20 FT.	320	68 LBS.	OMNI	7/16DIN	N	1	144.8300	145.4300	SIDE MOUNTED DIPOLE	6.0	8.90	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
9	PARABOLIC DISH WITH RADOME	PROVIDE TOWER DESIGN LOADING ONLY (SEE NOTE 1)	BELDEN 7919A OUTDOOR CAT5E	N/A	48" DIA.	320	UNKNOWN	260	N/A	N/A	1	4900.0000	5800.0000	SIDE MOUNT DISH	N/A	7.1	NO (NOTE 1)	SIDE MOUNT ON TOWER
10	BIRD, BA80–67–DIN	GOHSEP LINK	TRILOGY, AIRCELL, 1¼", AT114J50	IS–B50HN–C2	10 FT.	300	18 LBS.	OMNI	7/16DIN	N	1	442.4250	447.4250	SIDE MOUNTED DIPOLE	6.0	3.30	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
11	PARABOLIC DISH WITH RADOME	PROVIDE TOWER DESIGN LOADING ONLY (SEE NOTE 1)	BELDEN 7919A OUTDOOR CAT5E	N/A	48" DIA.	300	UNKNOWN	192	N/A	N/A	1	5800.0000	5800.0000	SIDE MOUNT DISH	N/A	12.6	NO (NOTE 1)	SIDE MOUNT ON TOWER
12	BIRD, 101–83B–09–03/03N	ACU1000, 700 MHZ AD HOC ANTENNA	TRILOGY, AIRCELL, 1⅝", AT158J50	IS–B50HN–C2	10 FT.	290	45 LBS.	OMNI	7/16DIN	N	1	LWIN	LWIN	SIDE MOUNTED DIPOLE	9.0	2.00	YES	TOP MOUNTED – 6 FT STANDOFF BRACKET
13	BIRD, BA80–41–DIN	GOHSEP LINK	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	20 FT.	280	68 LBS.	OMNI	7/16DIN	N	1	145.0100	145.0100	SIDE MOUNTED DIPOLE	6.0	8.90	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
14	BIRD, BA80–67–DIN	GOHSEP LINK	TRILOGY, AIRCELL, 1¼", AT114J50	IS–B50HN–C2	10 FT.	260	18 LBS.	OMNI	7/16DIN	N	1	445.1000	445.1000	SIDE MOUNTED DIPOLE	6.0	3.30	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
15	BIRD, SMD7–83–746–870	GSM SYSTEM	TRILOGY, AIRCELL, 1¼", AT114J50	IS–B50HN–C2	1.1 FT.	255	1.0 LBS	OMNI	N	N	1	850 GSM	850 GSM	SIDE MOUNTED DIPOLE	1.0	0.20	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
16	BIRD, BA80–41–DIN	ACU1000, 155 MHZ AD HOC ANTENNA	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	20 FT.	250	68 LBS.	OMNI	7/16DIN	N	1	144.83 – 160.095	144.90 – 155.925	SIDE MOUNTED DIPOLE	6.0	8.90	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
17	PARABOLIC DISH WITH RADOME	PROVIDE TOWER DESIGN LOADING ONLY (SEE NOTE 1)	BELDEN 7919A OUTDOOR CAT5E	N/A	36" DIA.	240	UNKNOWN	125	N/A	N/A	1	5800.0000	5800.0000	SIDE MOUNT DISH	N/A	3.1	NO (NOTE 1)	SIDE MOUNT ON TOWER
18	PARABOLIC DISH WITH RADOME	PROVIDE TOWER DESIGN LOADING ONLY (SEE NOTE 1)	BELDEN 7919A OUTDOOR CAT5E	N/A	48" DIA.	235	UNKNOWN	266	N/A	N/A	1	5800.0000	5800.0000	SIDE MOUNT DISH	N/A	12.6	NO (NOTE 1)	SIDE MOUNT ON TOWER
19	BIRD, BA80–41–DIN	ACU1000, 155 MHZ AD HOC ANTENNA	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	20 FT.	230	68 LBS.	OMNI	7/16DIN	N	1	144.83 – 160.095	144.90 – 155.925	SIDE MOUNTED DIPOLE	6.0	8.90	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
20	BIRD, 101–83B–09–03/03N	ACU1000, 700 MHZ AD HOC ANTENNA	TRILOGY, AIRCELL, 1⅝", AT158J50	IS–B50HN–C2	10 FT.	210	45 LBS.	OMNI	7/16DIN	N	1	LWIN	LWIN	SIDE MOUNTED DIPOLE	9.0	2.00	YES	TOP MOUNTED – 6 FT STANDOFF BRACKET
21	BIRD, BA40–67–DIN	GMRS	TRILOGY, AIRCELL, 1¼", AT114J50	IS–B50HN–C2	10 FT.	200	18 LBS.	OMNI	7/16DIN	N	1	462.6750	462.6750	SIDE MOUNTED DIPOLE	6.0	3.30	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
22	BIRD, BA80–41–DIN	WP FIRE REPEATER	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	20 FT.	190	68 LBS.	OMNI	7/16DIN	N	1	153.7700	154.3700	SIDE MOUNTED DIPOLE	6.0	8.90	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
23	PCTEL, INC. BMOY4405	GOHSEP LINK, HORIZ POLARIZATION	TRILOGY, AIRCELL, 1¼", AT114J50	IS–B50HN–C2	3.0 FT.	170	2.0 LBS.	182	N	N	1	441.3000	446.3000	END MOUNTED YAGI	9.0	0.31	YES	YAGI MOUNT AT BOOM END
24	BIRD, BA80–41–DIN	WPSO REPEATER	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	20 FT.	165	68 LBS.	OMNI	7/16DIN	N	1	154.9350	155.9250	SIDE MOUNTED DIPOLE	6.0	8.90	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
25	PCTEL, INC. BMOY4405	GOHSEP LINK, HORIZ POLARIZATION	TRILOGY, AIRCELL, 1¼", AT114J50	IS–B50HN–C2	3.0 FT.	145	2 LBS.	249	N	N	1	441.1500	446.1500	END MOUNTED YAGI	9.0	0.31	YES	YAGI MOUNT AT BOOM END
26	PCTEL, INC. BMOY4405	GOHSEP LINK, HORIZ POLARIZATION	TRILOGY, AIRCELL, 1¼", AT114J50	IS–B50HN–C2	3.0 FT.	140	2.0 LBS.	222	N	N	1	440.8500	445.8500	END MOUNT YAGI	9.0	0.31	YES	YAGI MOUNT AT BOOM END
27	GLOMEX SKU V9150 14"	TV VHF/UHF	TRILOGY, AIRCELL, ⅞", AT078J75	IS–75F–C1	14" DIA	140	6.0 LBS.	300	F	F	1	N/A	512.0000	SIDE MOUNTED DOME	N/A	1.13	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
28	BIRD, BA80–41–DIN	WP OHSEP REPEATER	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	20 FT.	135	68 LBS.	OMNI	7/16DIN	N	1	153.7400	155.0400	SIDE MOUNTED DIPOLE	6.0	8.90	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
29	SHAKESPEARE STYLE 176–1 MARINE	CITIZENS BAND	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	18	120	20 LBS.	OMNI	PL259	N	1	27.1850	27.1850	VERTICLE	7.7	0.50	YES	SHAKESPEARE 408–R BRACKET
30	ANTENNA BY OWNER, INVERTED VEE (SEE NOTE 2)	GOHSEP–FURNISH & INSTALL BRACKET, PULLEY, HALYARD	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	N/A	100	10 LBS.	OMNI	N/A	N	1	7.2850	7.2850	INVERTED V	1.0	2.00	YES	BRACKET AND STAINLESS STEEL PULLEY, PHILYSTRAN HALYARD, POLYPHASER
31	ANTENNA BY OWNER, INVERTED VEE (SEE NOTE 2)	GOHSEP–FURNISH & INSTALL BRACKET, PULLEY, HALYARD	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	N/A	100	10 LBS.	OMNI	N/A	N	1	3.8730	3.8730	INVERTED V	1.0	2.00	YES	BRACKET AND STAINLESS STEEL PULLEY, PHILYSTRAN HALYARD, POLYPHASER
32	BIRD, 101–83B–09–03/03N	DISPATCH FROM 700 COMBINER, LMR, TRANSMIT	TRILOGY, AIRCELL, 1⅝", AT158J50	IS–B50HN–C2	10 FT	80	45 LBS.	OMNI	7/16DIN	N	1	LWIN	LWIN	SIDE MOUNTED DIPOLE	9.0	2.00	YES	TOP MOUNTED – 6 FT STANDOFF BRACKET
33	BIRD, 101–83B–09–03/03N	DISPATCH FROM 700 COMBINER, LMR, RECEIVE	TRILOGY, AIRCELL, 1⅝", AT158J50	IS–B50HN–C2	10 FT	70	45 LBS.	OMNI	7/16DIN	N	1	LWIN	LWIN	SIDE MOUNTED DIPOLE	9.0	2.00	YES	TOP MOUNTED – 6 FT STANDOFF BRACKET
34	BIRD, BA40–41–DIN	DISPATCH FROM 155 COMBINER, LMR, TRANSMIT	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	11 FT	65	32 LBS.	OMNI	7/16DIN	N	1	155.0000	155.0000	SIDE MOUNTED DIPOLE	3.0	4.50	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET
35	BIRD, BA40–41–DIN	DISPATCH FROM 155 COMBINER, LMR, RECEIVE	TRILOGY, AIRCELL, ⅞", AT078J50	IS–B50HN–C0	11 FT	60	32 LBS.	OMNI	7/16DIN	N	1	155.0000	155.0000	SIDE MOUNTED DIPOLE	3.0	4.50	YES	SIDE MOUNTED – 2 FT STANDOFF BRACKET

ALTERNATE NO. 2 BID ITEM

PROVIDE THE FOLLOWING ITEMS FOR THE COMMUNICATIONS TOWER EQUIPMENT BUILDINGS

TRILOGY, AIRCELL, 7/8 IN., AT078J50	1000 FEET
TRILOGY CT07850AI0 TOOL	1 UNIT
TRILOGY NFA07850 N MALE CONNECTOR	140 UNITS
dbSPECTRA HC111W1–24F 746–806 MHZ COMBINER (SEE NOTE 8)	1 UNIT
dbSPECTRA HC115Q1–08F 150–174 MHZ COMBINER (SEE NOTE 8)	1 UNIT

SPECIFIC NOTES FOR ANTENNA SCHEDULE:

1. NOT IN CONTRACT. WILL BE FURNISHED AND INSTALLED BY THE OWNER. TOWER DESIGN SHALL INCLUDE ANTENNA, CABLES AND ALL ASSOCIATED ACCESSORIES.
2. CUSTOM MANUFACTURED ANTENNA PROVIDED BY OWNER. OWNER WILL USE THE PULLEY AND HALYARD ASSEMBLY TO "RAISE" THE ANTENNA.
3. ANTENNA MANUFACTURER AND MODEL NUMBER SPECIFIED AS A BASIS OF DESIGN TO DEFINE THE TECHNICAL REQUIREMENTS AND LEVEL OF QUALITY REQUIRED. CONTRACTOR MAY SUBMIT A REQUEST FOR SUBSTITUTION TO OBTAIN APPROVAL OF EQUAL PRODUCTS. ADDITIONAL INFORMATION ON SPECIFIED MANUFACTURERS IS AS FOLLOWS:
   a. BIRD TECHNOLOGIES
      30303 AURORA RD.
      SOLON, OH 44139
      PHONE: (440)248–1200/(866)695–4569 [TOLL FREE]
      FAX: (440)248–5426/(866)546–4306 [TOLL FREE]
   b. SHAKESPEARE ELECTRONIC PRODUCTS
      6111 SHAKESPEARE RD.
      COLUMBIA, SC 29223
   c. GLOMEX
      VIA FAENTINA, 165G
      48100 RAVENNA (ITALY)
      TEL. +39 0544 500377
      FAX +39 0544 500420
   d. PCTEL
      471 BRIGHTON DRIVE
      BLOOMINGDALE, IL 60108
      TEL. +1–630–372–6800
      FAX +1–630–372–8077
   e. KRECO
      27 SPRUCE CABIN ROAD
      CRESCO, PA 18326
      glenn@krecoantennas.com
      (570)595–2212
      (570)595–2024
   f. NCG COMPANIES
      15036 SIERRA BONITA LANE
      CHINO, CA 91710
      PHONE: 909.393.6133
      FAX: 909.393.6136
4. ANTENNA FEEDLINE CABLEMANUFACTURER AND MODEL NUMBER SPECIFIED AS A BASIS OF DESIGN TO DEFINE THE TECHNICAL REQUIREMENTS AND LEVEL OF QUALITY REQUIRED. CONTRACTOR MAY SUBMIT A REQUEST FOR SUBSTITUTION TO OBTAIN APPROVAL OF EQUAL PRODUCTS. ADDITIONAL INFORMATION ON SPECIFIED COAX CABLE MANUFACTURER IS AS FOLLOWS:
   a. TRILOGY COMMUNICATIONS, INC.
      2910 HIGHWAY 80 EAST, PEARL, MS. 39208
      8NO–TRILOGY (874–5649), info@trilogycoax.com
5. RF LIGHTNING PROTECTION DEVICE MANUFACTURER (i.e. POLYPHASER) AND MODEL NUMBER SPECIFIED AS A BASIS OF DESIGN TO DEFINE THE TECHNICAL REQUIREMENTS AND LEVEL OF QUALITY REQUIRED. CONTRACTOR MAY SUBMIT A REQUEST FOR SUBSTITUTION TO OBTAIN APPROVAL OF EQUAL PRODUCTS.
6. IDENTIFICATION NOMENCLATURE FOR DIFFERENT CABLE CONNECTOR TYPES IS:
   TYPE "N" – UHF; 50 OHM CONNECTOR, 12 GHZ OR GREATER
   TYPE "F" – UHF; 75 OHM, VIDEO, 250 MHZ TO 1 GHZ CONNECTOR
   TYPE "PL259" – UHF CONNECTOR, 300 MHZ OR LESS
   TYPE "7/16 DIN" – 7.5 GHZ CONNECTOR, WITH RUBBER GASKET, SILVER OR GOLD PLATED. WRENCH REQUIRED FOR TIGHTENING.
7. ANTENNA CABLE ROUTED FROM ANTENNA ON TOWER TO COMMUNICATIONS TOWER EQUIPMENT BUILDING. REFER TO DWG. NO. E4.00 FOR EQUIPMENT RACK LOCATION INSIDE EACH BUILDING.
8. MANUFACTURER AND MODEL NUMBER SPECIFIED AS A BASIS OF DESIGN TO DEFINE THE TECHNICAL REQUIREMENTS AND LEVEL OF QUALITY REQUIRED. CONTRACTOR MAY SUBMIT A REQUEST FOR SUBSTITUTION TO OBTAIN APPROVAL OF EQUAL PRODUCTS. ADDITIONAL INFORMATION ON SPECIFIED MANUFACTURER IS AS FOLLOWS:
   a. dbSPECTRA
      1590 E. HWY 121 BUSINESS BLD. A.
      LEWISVILLE, TX. 75056
      MAIN: (469)322–0080
      FAX: (469) 322–0079

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WASHINGTON PARISH COMMUNICATIONS TOWER

DOLLAR ROAD
WASHINGTON PARISH, LOUISIANA

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ELECTRICAL ENGINEERING

ANTENNA SCHEDULE

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