

GTE MOBILNET OF INDIANA LIMITED
PARTNERSHIP d/b/a VERIZON WIRELESS

verizonwireless

250 E. 96th STREET
INDIANAPOLIS, INDIANA 46240

EXISTING 250' SELF SUPPORT TOWER
w/ 14' APPURTENANCE
TOTAL TOWER HEIGHT 264'

FRANKLIN WEST

GTE MOBILNET OF INDIANA LIMITED
PARTNERSHIP d/b/a VERIZON WIRELESS

1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY

DIRECTIONS: FROM 250 E. 96TH STREET, INDIANAPOLIS, IN: START OUT GOING WEST ON E 96TH ST. TURN RIGHT ONTO N MERIDIAN ST. MERGE ONTO I-465 E (22.5 MILES) MERGE ONTO I-65 S VIA EXIT 53B (16.5 MILES) TAKE THE IN-44 EXIT 90. TAKE THE RAMP TOWARD FRANKLIN. TURN SLIGHT RIGHT ONTO E KING ST/IN-44 W (1.5 MILES) TURN LEFT ONTO IN-44/N FORSYTH ST. TAKE THE 1ST RIGHT ONTO IN-44/E JEFFERSON ST (1.6 MILES) TURN LEFT ONTO DRAKE RD. TURN RIGHT ONTO HOSPITAL RD. 1071 HOSPITAL ROAD WILL BE ON THE LEFT.

SURVEYOR
BENCHMARK SERVICES, INC.
318 NORTH MAIN STREET
HUNTINGBURG, INDIANA 47542
PHONE: 812-683-3049

ELECTRICAL
DUKE ENERGY
ADDRESS: TBD
CONTACT: JERRY TROXEL
PHONE: 317-910-2010
EMAIL: jerry.troxel@duke-energy.com

TELEPHONE
CENTURY LINK
ADDRESS: TBD
CONTACT: MEMBER OF SERVICE DEPARTMENT
PHONE: 877-290-5458
EMAIL: TBD

ARCHITECTURAL
GPD GROUP
8275 ALLISON POINTE TRAIL, SUITE 220
INDIANAPOLIS, INDIANA 46250
CONTACT: TRACI PREBLE 317-299-2996

CONSULTANT TEAM

SITE NAME
FRANKLIN WEST
CELL SITE

SITE ADDRESS
1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY

PROJECT CONTACTS
TOWER CO LLC
500 VALLEYSTONE DRIVE
CARY, NC 27519
CONTACT: MARTHA PROVINCE
OFFICE PHONE: 919-653-5704
CELL PHONE: 919-601-2272

VERIZON WIRELESS
4000 S. INVERNESS FARM ROAD
BLOOMINGTON, IN 47401
CONTACT: WESTERN ACQUISITION, INC.
PHONE: 812-345-1558
OR: 812-345-1557

FIRE
FRANKLIN FIRE DEPARTMENT
1701 N MAIN STREET
FRANKLIN, IN 46131
PHONE: 317-736-3650

POLICE
FRANKLIN POLICE DEPARTMENT
2801 N MORTON
FRANKLIN, IN 46131
PHONE: 317-736-3670

GENERAL INFORMATION
LATITUDE - 39° 28' 39.58" N
LONGITUDE - 86° 04' 27.94" W
1983 (NAD)
ELEVATION - ±737' AMSL
(NAVD 88)

PROJECT SUMMARY

PROJECT DESCRIPTION
THE PROJECT INCLUDES:
A NEW TELEPHONE SERVICE RUN TO SITE
A NEW ELECTRICAL SERVICE RUN TO SITE
NO WATER SUPPLY OR SEWAGE RUN TO SITE
INSTALLATION OF A
CONCRETE PAD FOR A 11'-6" x 26'-0" PREFABRICATED SHELTER

PROJECT DESCRIPTION

PROJECT MANAGER: _____

CONSTRUCTION MANAGER: _____

NETWORK OPERATIONS MANAGER: _____

NATIONAL DIRECTOR MANAGER: _____

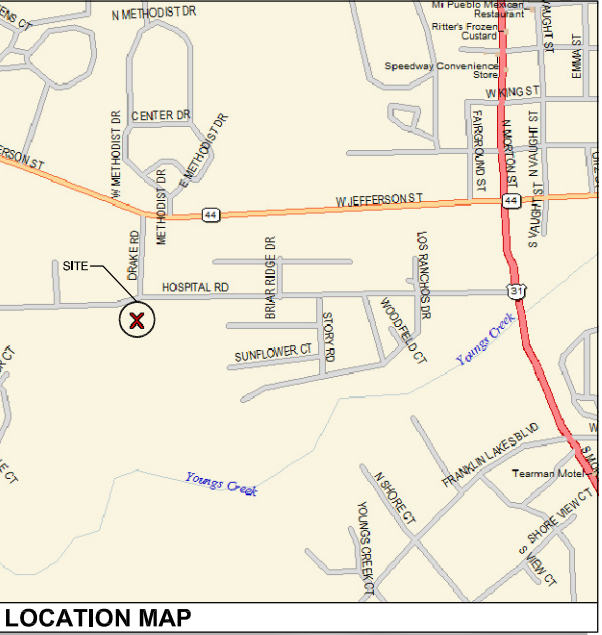
SIGNATURE _____ DATE _____

APPROVED BY

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, VICINITY MAP, SHEET INDEX SURVEY PLAN
ARCHITECTURAL	
A-1	TOWER ELEVATION
CIVIL	
C-1	OVERALL SITE PLAN
C-2	DETAILED SITE PLAN
C-3	GENERAL NOTES
DETAILS	
D-1	FENCE & SITE DETAILS
STRUCTURAL	
S-1	FOUNDATION DETAILS & NOTES
S-2	ICE BRIDGE DETAILS
S-3	PREFABRICATED RADIO EQUIPMENT LIFTING PROCEDURES
ELECTRICAL	
E-1	ELECTRICAL SITE PLAN
E-1a	ELECTRICAL AND GROUNDING NOTES
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL DETAILS

SHEET INDEX

NOTE:
THIS IS A REDUCED SIZE COPY. THESE PLANS
WERE PRODUCED USING A 22"x34" FORMAT.
DO NOT SCALE FROM THESE PRINTS.



RELEASE	
DATE	
09-15-11	ISSUED FOR 90% REVIEW

REVISIONS		
NO.	DATE	
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DRAWN BY: CMB
CHECKED BY: LJB

SITE NAME

**FRANKLIN WEST
CELL SITE**

SITE #

PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815

SITE ADDRESS

1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY

SHEET TITLE

PROJECT INFORMATION,
SITE MAPS AND SHEET
INDEX

SHEET NUMBER

LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT AND SURVEY WERE MADE UNDER MY SUPERVISION AND THAT THE ANGULAR AND LINEAR MEASUREMENTS AS WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ralph M. Wallem

RALPH M. WALLEM

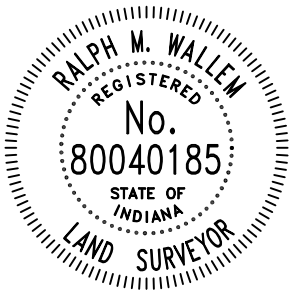
PLS NO. 80040185

OWNER APPROVAL:

DATE

VERIZON WIRELESS APPROVAL:

DATE



SCALE: 1"=20'

NORTH IS BASED ON INDIANA STATE PLANE COORDINATE SYSTEM EAST ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON JULY 26, 2011

CENTER OF TOWER COORDINATE POINT LOCATION
NAD 1983
LATITUDE: 39°28'39.58013" N
LONGITUDE: 86°04'27.93811" W
NAVD 1988
SITE ELEVATION: 737.10 AMSL

BENCHMARK #1
IRON PIN (CP#1)
NORTH:1540710.083
EAST:212909.776
ELEV:736.79

BENCHMARK #2
IRON PIN (CP#2)
NORTH:1540741.851
EAST:213005.433
ELEV:736.57

CENTER OF TOWER COORDINATE POINT LOCATION
NORTH:1540691.985
EAST:212981.875
ELEV:737.10

(LANDOWNER)
BOARD OF COMMISSIONERS
COUNTY OF JOHNSON
STATE OF INDIANA

VERIZON 15'x38' LEASE AREA

(TOWER OWNER)
TOWER CO LLC
(JASON WOODWARD)
5000 VALLEYSTONE DRIVE
CARY, NORTH CAROLINA 27519

EXISTING 38'x50' LEASE AREA

COUNTY GARAGE BUILDING

15' ACCESS & UTILITY EASEMENT

FLOOD DATA THIS PROPERTY IS IN ZONE X OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 18081C0227D WHICH HAS AN EFFECTIVE DATE OF 8/2/2007 AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. THERE WAS NO FIELD SURVEY PERFORMED TO DETERMINE THIS ZONE. AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION FROM FEMA.

TELEPHONE COMPANY:
A.T. & T
MEMBER OF SERVICE DEPT.
800.340.1734

POLICE CONTACTS:
FRANKLIN POLICE DEPARTMENT
2801 N. MORTON
FRANKLIN, INDIANA 46131
317.736.3670

UTILITIES

POWER COMPANY:
DUKE ENERGY
1000 EAST MAIN STREET
PLAINFIELD, INDIANA 46168
800.521.2232

FIRE CONTACTS:
FRANKLIN FIRE DEPARTMENT
1701 N. MAIN STREET
FRANKLIN, INDIANA 46131
317.736.3650

LEGEND

- LEASE LINE
- E—E— EXISTING ELECTRIC
- T—T— EXISTING TELEPHONE
- UE—UE— EXISTING ELECTRIC
- +—+— FENCE LINE
- ⊕ POWER POLE
- ⊗ TELE PED
- ⊕ WATER VALVES
- ⊗ FIRE HYDRANTS

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.



SITE NUMBER:
FRANKLIN WEST

SITE NAME:
FRANKLIN WEST

SITE ADDRESS:
1071 HOSPITAL ROAD
FRANKLIN, IN 46131

LEASE AREA:
570 SQ. FT.

PROPERTY OWNER:
BOARD OF COMMISSIONERS
COUNTY OF JOHNSON
STATE OF INDIANA

SECTION/TOWNSHIP/RANGE
SEC 22, T 12 N, R 4 E

COUNTY:
JOHNSON COUNTY

SOURCE OF TITLE:
#05101

LATITUDE: 39°28'39.58013" N
LONGITUDE: 86°04'27.93811" W

DWG BY: GVV
CHKD BY: RMW
DATE: 8.1.11

NO.	REVISION/ISSUE	DATE:

TITLE:
SURVEY PLAN

SHEET:
C-2

VERIZON LEASE AREA DESCRIPTION

A PART OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 12 NORTH, RANGE 4 EAST, JOHNSON COUNTY, INDIANA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST 24.02 FEET; THENCE SOUTH 84 DEGREES 07 MINUTES 53 SECONDS WEST 161.85 FEET; THENCE SOUTH 00 DEGREES 11 MINUTES 50 SECONDS WEST 88.09 FEET; THENCE THENCE NORTH 84 DEGREES 07 MINUTES 53 SECONDS EAST 85.70 FEET TO THE TRUE PLACE OF BEGINNING OF THIS DESCRIPTION; NORTH 05 DEGREES 52 MINUTES 07 SECONDS WEST 38.00 FEET; THENCE NORTH 84 DEGREES 07 MINUTES 53 SECONDS EAST 15.00 FEET TO THE EXISTING TOWER CO LLC., NORTHWEST LEASE AREA CORNER; THENCE ALONG THE WESTERLY LINE OF SAID LEASE AREA SOUTH 05 DEGREES 52 MINUTES 07 SECONDS WEST 38.00 FEET TO THE SOUTHWEST LEASE AREA CORNER; THENCE SOUTH 84 DEGREES 07 MINUTES 53 SECONDS WEST 15.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 570 SQUARE FEET, MORE OR LESS.

THE ABOVE DESCRIBED PARCEL IS SUBJECT TO ALL LEGAL RIGHTS OF WAYS AND EASEMENTS OF RECORD.

EXISTING LEASE AREA DESCRIPTION

A PART OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 12 NORTH, RANGE 4 EAST, JOHNSON COUNTY, INDIANA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST 24.02 FEET; THENCE SOUTH 84 DEGREES 07 MINUTES 53 SECONDS WEST 161.85 FEET; THENCE SOUTH 00 DEGREES 11 MINUTES 50 SECONDS WEST 88.09 FEET; THENCE THENCE NORTH 84 DEGREES 07 MINUTES 53 SECONDS EAST 100.70 FEET TO THE TRUE PLACE OF BEGINNING OF THIS DESCRIPTION; THENCE NORTH 05 DEGREES 52 MINUTES 07 SECONDS WEST 38.00 FEET; THENCE NORTH 84 DEGREES 07 MINUTES 53 SECONDS EAST 50.00 FEET; THENCE SOUTH 05 DEGREES 52 MINUTES 07 SECONDS EAST 38.00 FEET; THENCE SOUTH 84 DEGREES 07 MINUTES 53 SECONDS WEST 50.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 1,900 SQUARE FEET, MORE OR LESS.

SUBJECT TO ALL RIGHTS OF WAY, EASEMENTS, AND RESTRICTIONS OF RECORD.

EXISTING 15' ACCESS & UTILITY EASEMENT DESCRIPTION

A PART OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 12 NORTH, RANGE 4 EAST, JOHNSON COUNTY, INDIANA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID NORTHWEST QUARTER; THENCE SOUTH 00 DEGREES 00 MINUTES 00 SECONDS EAST 24.02 FEET; THENCE SOUTH 84 DEGREES 07 MINUTES 53 SECONDS WEST 161.85 FEET; THENCE SOUTH 00 DEGREES 11 MINUTES 50 SECONDS WEST 88.09 FEET; THENCE THENCE NORTH 84 DEGREES 07 MINUTES 53 SECONDS EAST 150.70 FEET; THENCE SOUTH 05 DEGREES 52 MINUTES 07 SECONDS EAST 15.00 FEET; THENCE SOUTH 84 DEGREES 07 MINUTES 53 SECONDS WEST 167.38 FEET; THENCE NORTH 00 DEGREES 11 MINUTES 50 SECONDS EAST 118.26 FEET; THENCE NORTH 84 DEGREES 07 MINUTES 53 SECONDS EAST 161.80 FEET; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS WEST 10.48 FEET; THENCE SOUTH 90 DEGREES 00 MINUTES 00 SECONDS EAST 15.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 6,620 SQUARE FEET, MORE OR LESS.

SUBJECT TO ALL RIGHTS OF WAY, EASEMENTS, AND RESTRICTIONS OF RECORD.

LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT AND SURVEY WERE MADE UNDER MY SUPERVISION AND THAT THE ANGULAR AND LINEAR MEASUREMENTS AS WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ralph M. Wallem

RALPH M. WALLEM

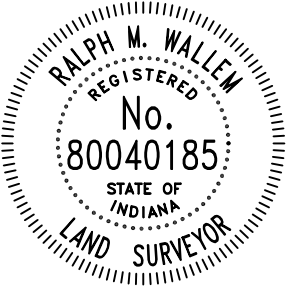
PLS NO. 80040185

OWNER APPROVAL:

DATE

VERIZON WIRELESS APPROVAL:

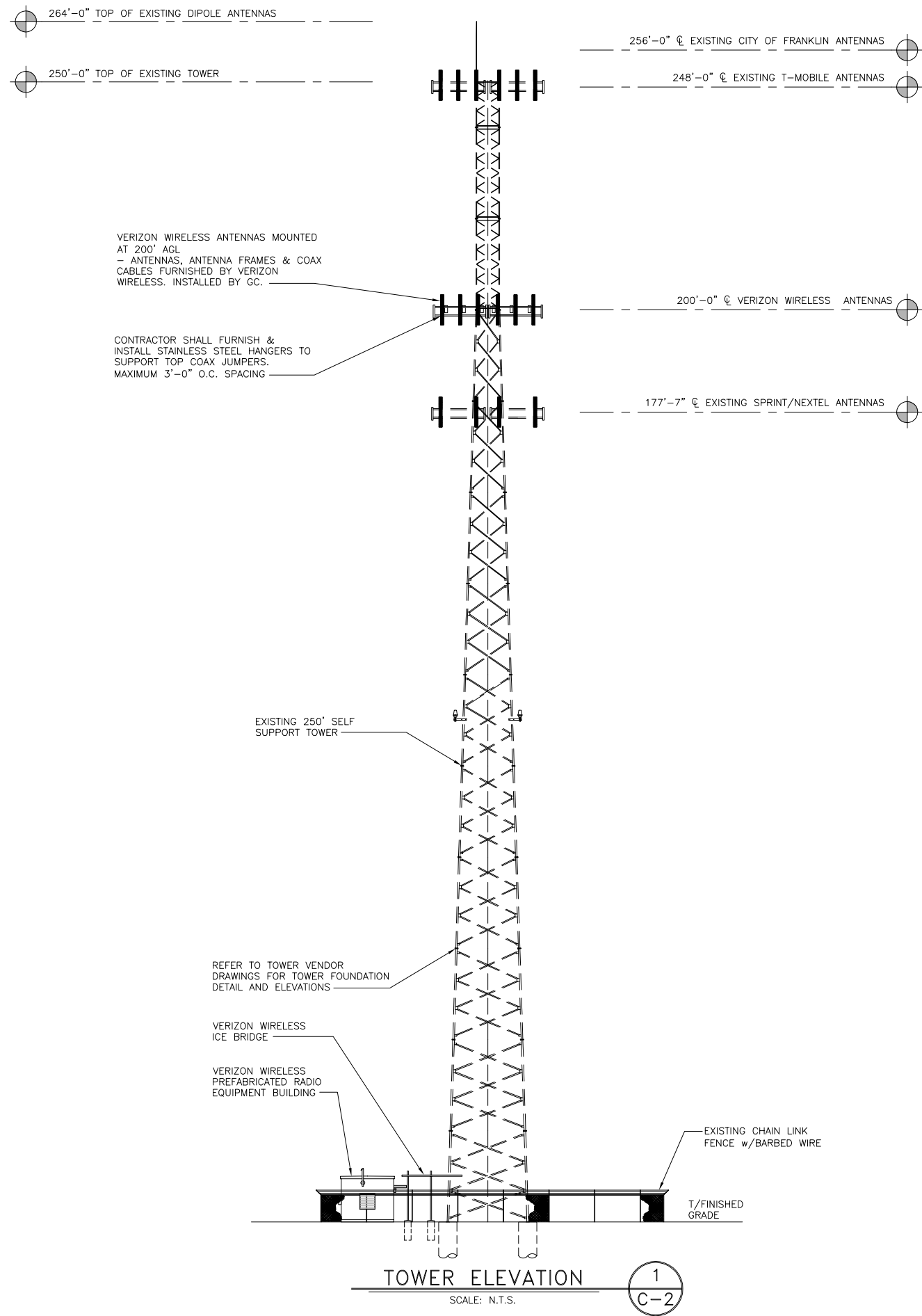
DATE



NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.



SITE NUMBER:		
FRANKLIN WEST		
SITE NAME:		
FRANKLIN WEST		
SITE ADDRESS:		
1071 HOSPITAL ROAD FRANKLIN, IN 46131		
LEASE AREA:		
570 SQ. FT.		
PROPERTY OWNER:		
BOARD OF COMMISSIONERS COUNTY OF JOHNSON STATE OF INDIANA		
SECTION/TOWNSHIP/RANGE		
SEC 22, T 12 N, R 4 E		
COUNTY:		
JOHNSON COUNTY		
SOURCE OF TITLE:		
#05101		
LATITUDE: 39°28'39.58013" N LONGITUDE: 86°04'27.93811" W		
DWG BY:	CHKD BY:	DATE:
GVW	RMW	8.1.11
NO.	REVISION/ISSUE	DATE:
TITLE:		
SURVEY PLAN		
SHEET:		
C-2a		



NOTE:
1. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY GTE MOBILNET OF INDIANA LIMITED PARTNERSHIP d/b/a VERIZON WIRELESS

NOTE:
CONTRACTOR SHALL INSURE THAT ALL NEW ANTENNAS, MOUNTS, EQUIPMENT, COAXIAL CABLES AND HARDWARE ARE INSTALLED IN SUCH A MANNER AS TO NOT INTERFERE WITH ANY EXISTING TOWER SUPPORTS, GUY WIRES, ANCHORS AND APPURTENANCES. REPORT ANY CONFLICT WITH THE VERIZON WIRELESS CONSTRUCTION MANAGER IMMEDIATELY

GTE MOBILNET OF INDIANA LIMITED PARTNERSHIP d/b/a VERIZON WIRELESS

250 E. 96TH STREET
INDIANAPOLIS, INDIANA 46240

GPD GROUP.
Glaus, Pyle, Schomer, Burns & DeHaven, Inc.
8275 Allison Pointe Trl, Suite 220
Indianapolis, Indiana 46250
317-299-2996 Fax 317-293-1331

PROJECT NUMBER 2011036.04
ALL DRAWINGS AND WRITTEN MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF ENGINEER AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF ENGINEER



RELEASE	
DATE	
09-15-11	ISSUED FOR 90% REVIEW

REVISIONS		
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DRAWN BY: CMB
CHECKED BY: LJB

SITE NAME

FRANKLIN WEST CELL SITE

SITE #

PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815

SITE ADDRESS

1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY

SHEET TITLE

TOWER ELEVATION

SHEET NUMBER



PROJECT NUMBER 2011036.04
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CHECKED BY: LJB

SITE NAME

FRANKLIN WEST CELL SITE

SITE #

**PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815**

SITE ADDRESS

**1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY**

SHEET TITLE

OVERALL SITE PLAN

SHEET NUMBER

C-1

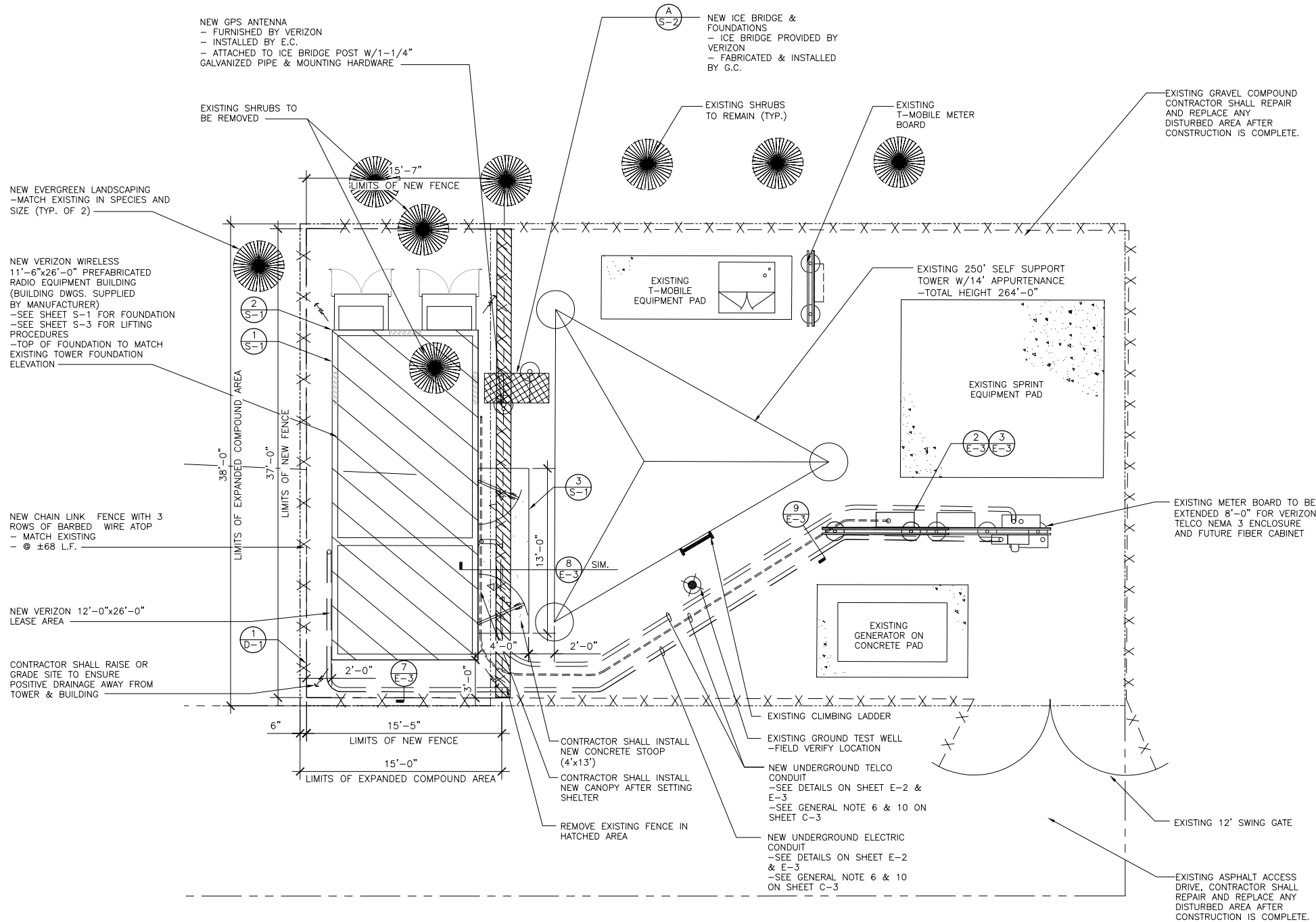


NOTICE TO CONTRACTOR
PER INDIANA STATE LAW IC-8-1-26-18, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

OVERALL SITE PLAN

SCALE: 1" = 100'-0"





DETAILED SITE PLAN

SCALE: 1" = 10'

LEGEND

	IRON PIN
	DRAINAGE LINE
	SPOT ELEVATION
	GRAVEL COMPOUND
	CENTER LINE
	NEW FENCE LINE
	NEW SILT FENCE LINE
	POWER POLEw/OVERHEAD ELEC./TELE.
	EDGE OF NEW DRIVE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	EXISTING CONTOURS
	PROPOSED CONTOURS
	FENCED COMPOUND
	NEW PREFABRICATED RADIO EQUIPMENT BUILDING
	CONCRETE
	ACCESS DRIVE

NOTICE TO CONTRACTOR



NOTICE TO CONTRACTOR
PER INDIANA STATE LAW IC-8-1-26-18, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

*NOTE:
GENERAL CONTRACTOR IS TO INSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA.



PROJECT NUMBER 2011036.04
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DRAWN BY: CMB
CHECKED BY: LJB

SITE NAME

**FRANKLIN
WEST
CELL SITE**

SITE #

**PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815**

SITE ADDRESS

**1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY**

SHEET TITLE

DETAILED SITE PLAN

SHEET NUMBER

C-2

GENERAL NOTES

1. SCHEDULE:

THE CONSTRUCTION OF THE SITE REQUIRES A CERTAIN SEQUENCE OF EVENTS TO MINIMIZE CONSTRUCTION TIME REQUIRED UNTIL AVAILABILITY OF CELLULAR TELEPHONE SERVICE. VERIFY SCHEDULE DURING BID WALK.

2. THE PRIMARY CONTACT IS:

GRANT CHILDERS
3077 EAST 98th STREET, SUITE 230
INDIANAPOLIS, IN 46280
PHONE: 317-249-2055

3. ANTENNA INSTALLATION:

THE CONTRACTOR INSTALLING THE PLATFORM SHALL ENSURE THAT THE PLATFORM IS ALIGNED BASED ON THE VERIZON WIRELESS RF PLAN. DURING THIS WORK, THE GENERAL CONTRACTOR SHALL BE LIMITED TO THE WORK WHICH CAN BE PERFORMED IN THE VICINITY OF THE TOWER.

4. ACCESS DRIVEWAY:

THE GENERAL CONTRACTOR SHALL REPAIR/REPLACE THE EXISTING ACCESS DRIVE PER THE ALIGNMENT AS SHOWN ON THESE DRAWINGS. IF ANY AREA OF CONSTRUCTION REQUIRES ADDITIONAL FILL OF AGGREGATE STONE THAN THAT NEEDED TO MATCH THE DEPTH OF THE EXISTING AGGREGATE, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER FOR APPROVAL OF THE SIZE, TYPE AND QUANTITY OF STONE/FILL NECESSARY AND SHALL NOT BE USED UNTIL APPROVAL BY THE ENGINEER.

5. PREFABRICATED RADIO EQUIPMENT BUILDING:

THIS CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS FOR THE PROPER LIFTING AND TRANSPORTING OF THE PREFABRICATED RADIO EQUIPMENT BUILDING FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION ON THE CONCRETE FOUNDATION. THE BUILDING SHALL BE LIFTED INTO PLACE BY USING TWO SPREADER BAR ASSEMBLIES. EACH SPREADER BAR SHALL BE A MINIMUM 13' WIDE (RATED TO CARRY 15 TONS). THE BUILDING WEIGHT IS 75,000# WITH TELEPHONE EQUIPMENT. CONTRACTOR SHALL ANCHOR THE BUILDING TO THE CONCRETE SLAB USING STEEL PLATES AND ANCHOR BOLTS PROVIDED BY THE PREFABRICATED RADIO EQUIPMENT BUILDING MANUFACTURER. EXTREME CAUTION SHALL BE TAKEN IN THE INSTALLATION OF THE BUILDING TO AVOID CONTACT WITH EXISTING OVERHEAD UTILITY LINES.

THE CONTRACTOR IS RESPONSIBLE FOR ATTACHING OR SECURING ANY ACCESSORY OR LOOSE ITEMS THAT ARE SHIPPED WITH THE PREFABRICATED RADIO EQUIPMENT BUILDING, I.E. TIE DOWN PLATES, HVAC DRIP HOSES TO BLDG., AND SHALL INCLUDE THIS WORK IN THE BUILDING INSTALLATION PORTION OF THE BID.

6. UTILITIES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACKFILLING OF TRENCHES AND SUPPLY CONDUIT REQUIRED FOR UNDERGROUND TELEPHONE & ELECTRICAL UTILITIES. ALL TRENCHING SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE W/ASTM D-1557.

THE CONTRACTOR SHALL RUN AN ELECTRICAL TRENCH WITH 4" CONDUIT AND DETECTABLE PULL TAPE FROM THE NEW PREFABRICATED RADIO EQUIPMENT BUILDING AND END AT THE EXISTING METER BOARD STRUCTURE. CONTACT JERRY TROXEL @ DUKE ENERGY BEFORE BEGINNING CONSTRUCTION TO VERIFY LOCATION OF CONDUIT. DUKE ENERGY WILL USE EXISTING VACANT METER BOARD SLOT FOR VERIZON WIRELESS SERVICE. THE CONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER INSPECTION AND SETTLEMENT. CONTACT ELECTRIC PROVIDER (JERRY TROXEL 317-910-2010 @ DUKE ENERGY) FOUR TO SIX WEEKS PRIOR TO CONSTRUCTION FOR NEW SERVICE AND COORDINATION OF ACCESS TO SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ORDERING AND COORDINATING THE DELIVERY OF A B1 OR POTS TELEPHONE SERVICE LINE TO THE PREFABRICATED RADIO EQUIPMENT BUILDING. THE CONTRACTOR SHALL ALSO COORDINATE DELIVERY OF A T1 CIRCUIT WITH THE TELCO PROVIDER AND THE VERIZON WIRELESS FACILITY ENGINEER.

THE CONTRACTOR SHALL RUN IN THE TELEPHONE TRENCH WITH 4" CONDUIT WITH 1 1/4" INNERDUCT AND 1 1/4" FIBER AC POWER CONDUIT, BOTH W/DETECTABLE PULL TAPE FROM THE NEW PREFABRICATED RADIO EQUIPMENT BUILDING TO THE EXISTING METER BOARD STRUCTURE. CONTACT CENTURY LINK TO VERIFY EXACT LOCATION OF CONDUIT BEFORE CONSTRUCTION STARTS. THE TELCO PROVIDER WILL PROVIDE SERVICE TO THE EXISTING METER BOARD STRUCTURE. THE CONTRACTOR SHALL PROPERLY BACKFILL THE TRENCHES AFTER SETTLEMENT. CONTACT CENTURY LINK FOR APPOINTMENT TO VISIT THE SITE, FOUR TO SIX WEEKS PRIOR TO CONSTRUCTION FOR NEW SERVICE.

ELECTRIC SERVICE PROVIDED BY:

DUKE ENERGY
CONTACT: JERRY TROXEL
PHONE: 317-910-2010
EMAIL: jerry.troxel@duke-energy.com

TELEPHONE SERVICE PROVIDED BY:

CENTURY LINK
CONTACT: MEMBER OF SERVICE DEPT.
PHONE: 877-290-5458
EMAIL: TBD

7. GEOTEXTILE FABRIC:

AFTER PLACEMENT AND COMPACTION OF FILL WITHIN THE WORK AREA AND BEFORE THE PLACEMENT OF LIMESTONE AGGREGATE, (SEE SITE AREA SURFACING DETAIL ON D-1), THE ENTIRE DISTURBED WORK AREA SHALL BE COVERED WITH A GEOTEXTILE FABRIC. THIS FABRIC SHALL BE "TREVIRA SPUNBOUND SII25 ENGINEERING FABRIC" INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

8. TRASH REMOVAL & SANITATION:

THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AS CREATED BY HIMSELF AND HIS SUBCONTRACTORS. TRASH SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL AREA. THE GENERAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH CREATED BY OTHER CONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. NO BURNING OF TRASH IS PERMITTED.

THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE TOILET FOR THE DURATION OF THE CONSTRUCTION PROJECT.

9. TOWER:

A. THE GENERAL CONTRACTOR SHALL VERIFY THE EQUIPMENT BUILDING FOUNDATION IS LOCATED CORRECTLY WITH RESPECT TO THE TOWER FOUNDATION. THE CONTRACTOR MUST NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO POURING CONCRETE.

B. THE GENERAL CONTRACTOR SHALL VERIFY THE TOP OF FOUNDATION MATCHES THE FAA APPROVAL LETTER.

10. EXCAVATION OF UTILITIES:

A. FIELD VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING IN THE VICINITY OF THE SITE. ALL EXCAVATIONS SHALL BE MADE BY HAND OVER OR UNDER OR IMMEDIATELY ADJACENT TO ANY EXISTING UTILITIES & GROUNDING.

B. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ON THIS PROJECT. CONTACT UNDERGROUND UTILITY PROTECTION SERVICE BEFORE YOU DIG AT 1-800-382-5544.

C. EXISTING UTILITIES ARE SHOWN FROM THE SURVEY AND ARE NOT NECESSARILY COMPLETE AND ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE AND DETERMINE IF CONFLICTS EXIST WITH THE NEW IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (GPD GROUP) IN ORDER TO RESOLVE ANY CONFLICTS.

11. CONTRACTOR'S LICENSE:

THE GENERAL CONTRACTOR AND ALL OF HIS SUBCONTRACTORS THAT DO ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED TO PERFORM WORK IN THE LOCATION OF THIS SITE. PROOF OF LICENSES SHALL BE SUPPLIED TO VERIZON WIRELESS PRIOR TO THE COMMENCEMENT OF ANY WORK.

12. SEEDING:

ALL DISTURBED AREAS SHALL BE REPAIRED AND SEEDED BY THE GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED. SEED DISTURBED AREAS W/4 POUNDS/1000 SQ. FT. - 60% KENTUCKY BLUEGRASS, 18% CREEPING RED FESCUE, 22% ANNUAL RYEGRASS.

13. FINAL CLEAN-UP:

UPON COMPLETION OF ALL WORK BY THE GENERAL CONTRACTOR AND ALL OF HIS SUBCONTRACTORS ON THIS PROJECT, THE GENERAL CONTRACTOR SHALL STRIP AND CLEAN THE FLOOR OF THE PREFAB BUILDINGS, USING AN INDUSTRIAL STRIPPING MACHINE. THE FINISHED FLOOR SHALL BE CLEAN AND DUST FREE. NO SURFACE FINISHES SHALL BE APPLIED. THE GENERAL CONTRACTOR IS ALSO RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS MATERIAL FROM INSIDE THE SHELTER ALONG WITH SHIPMENT OF NOTED MATERIALS BACK TO THE OWNER.

14. TRAFFIC CONTROL:

THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR GOVERNING LOCAL AGENCIES.

15. CONSTRUCTION STAKING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING NEEDED TO COMPLETE ALL THE CONSTRUCTION SHOWN HEREON.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO PAVEMENT, FINISHED GRADES, LANDSCAPING, BUILDINGS, SURVEY MARKERS, ETC.

17. IN THE EVENT ANY DISCREPANCIES OR ERRORS ARE FOUND ON THESE PLANS OR ANY CONFLICT OR PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE FOR GRADE OR GEOMETRIC DISCREPANCIES IF NOTICE TO THE ENGINEER HAS NOT BEEN PROVIDED. THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR ADJUSTMENTS AS NECESSARY TO ACCOMPLISH THE INTENT OF THESE PLANS.

18. ALL SITE WORK AND CONSTRUCTION SHALL CONFORM TO ANY AND ALL APPLICABLE CODES AND VERIZON WIRELESS STANDARDS AND SPECIFICATIONS.

19. ALL ELEVATIONS AND TOPOGRAPHIC INFORMATION WAS TAKEN FROM A SURVEY SUPPLIED TO GPD GROUP BY BENCHMARK SERVICES, INC.. GPD HAS NOT VERIFIED THIS INFORMATION AND DOES NOT WARRANT ANY INFORMATION SUPPLIED BY OTHERS.

20. THE CONTRACTOR SHALL MAINTAIN A COMPLETE AS-BUILT SET OF PLANS AND CONDITIONS, AND SUBMIT SAME TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION. AS-BUILT PLANS SUBMITTED TO THE ENGINEER SHALL INCLUDE A DRAWING WITH DIMENSIONS SHOWING THE LOCATION OF THE UNDERGROUND UTILITIES, GROUNDING GRID, BUILDING, TOWER FOUNDATION, TOWER PLATFORM ORIENTATION, AND FENCE WITHIN THE LEASE AREA OR PROPERTY AND BE CERTIFIED BY A LICENSED PROFESSIONAL SURVEYOR.

21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION.

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DRAWN BY: CMB

CHECKED BY: LJB

SITE NAME

FRANKLIN
WEST
CELL SITE

SITE #

PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815

SITE ADDRESS

1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY

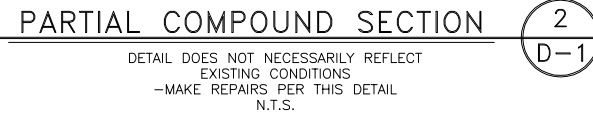
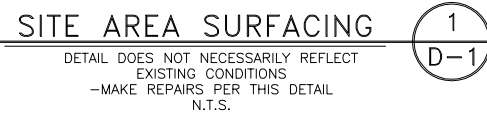
SHEET TITLE

GENERAL NOTES

SHEET NUMBER



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SITE NAME

FRANKLIN WEST CELL SITE

SITE #

PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815

SITE ADDRESS

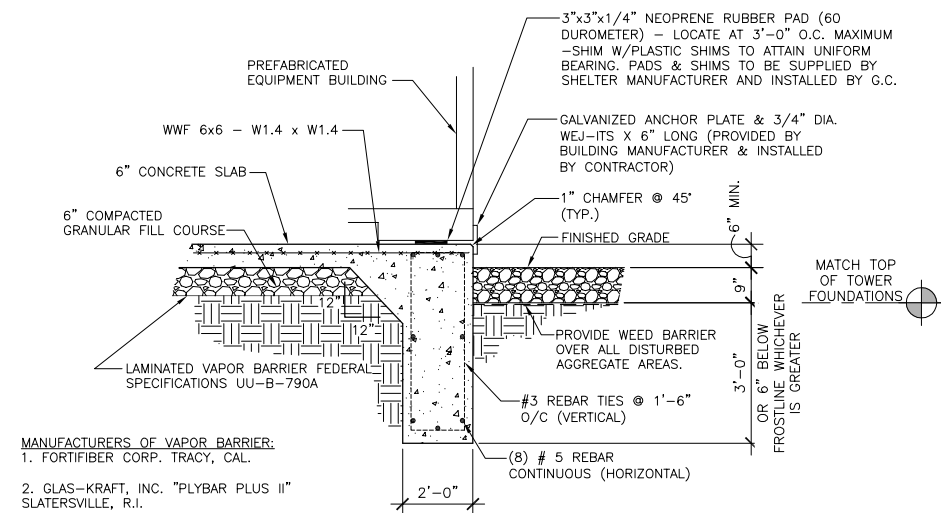
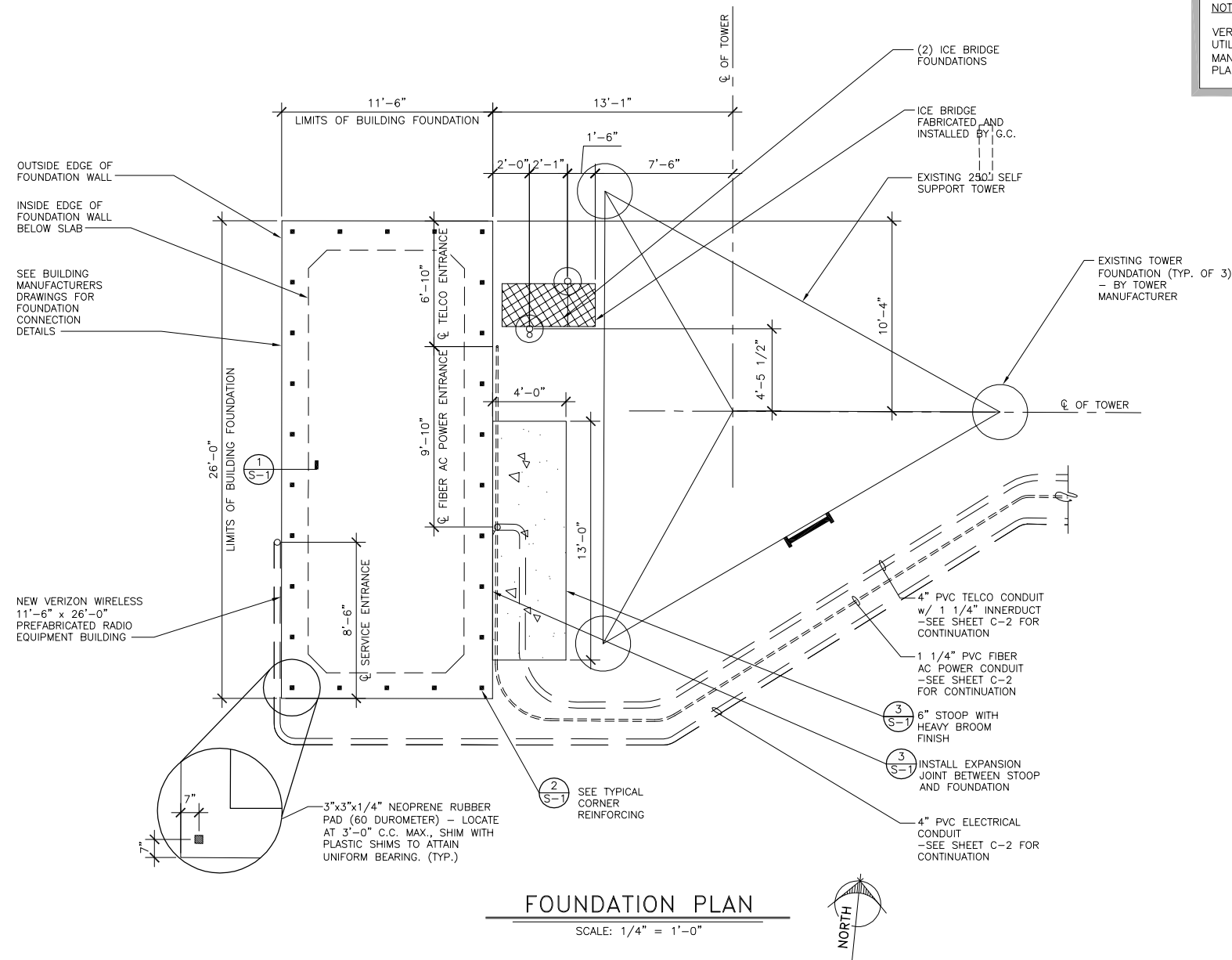
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FRANKLIN, INDIANA 46131
JOHNSON COUNTY

SHEET TITLE

SITE DETAILS

SHEET NUMBER

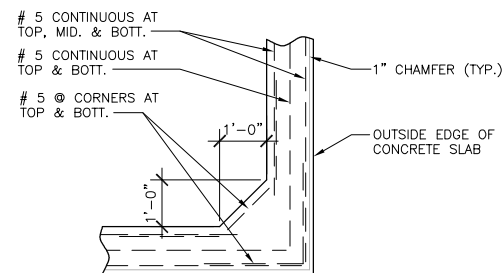
D-1



BUILDING FOUNDATION DETAIL

SCALE: N.T.S.

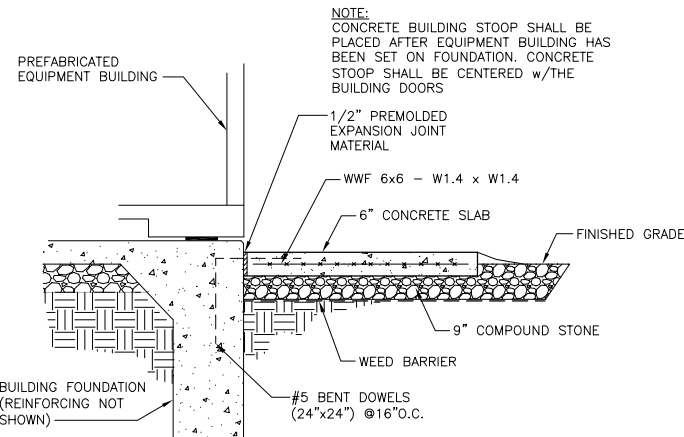
1 1
C-2 S-1



TYPICAL CORNER REINFORCING DETAIL

SCALE: N.T.S.

2 2
C-2 S-1



STOOP DETAIL

SCALE: N.T.S.

3 3
C-2 S-1

SPECIFICATIONS	- LATEST EDITION OF ACI-318		- BLDG. FOUNDATION
	4" SLUMP		F'c = 4000 PSI
MATERIALS	- REINFORCING		ASTM A615, GRADE 60
	- ANCHOR BOLTS		ASTM A307

REINFORCING COVERS	- FOOTINGS	
	TOP	2"
	BOTTOM/SIDES	3"

BAR SIZE	REINFORCING EMBEDMENT AND LAP SPLICES (INCHES)	
	LD	SPLICE
#4	12	20
#5	15	26
#6	18	31
#7	23	39

CHAMFER TOP CORNERS OF ALL FOUNDATIONS (1")

5. BURIED CABLE LOCATIONS INFORMATION
CONTACT 48 HR. PRIOR TO DIGGING, GRADING, OR DRILLING 1-800-428-5200

STRUCTURAL NOTES

1. LOADINGS:
FLOOR LIVE LOAD 100 PSF
ROOF SNOW LOAD 20 PSF
DEAD LOADS ACTUAL MATERIAL WEIGHTS
BASIC WIND SPEED 90 MPH

2. STRUCTURAL STEEL:
PIPE - ASTM A53 TYPE E OR S GRADE B, OR ASTM A501.
STRUCTURE FINISH - AFTER FABRICATION ACCORDING TO ASTM A123.

3. BUILDING FOUNDATION SYSTEM:
THE SUBSURFACE REPORT PROVIDED BY G2 CONSULTING GROUP DATED JULY 30, 2004 WAS USED IN THE PREPARATION OF THESE DRAWINGS.
ALLOWABLE BEARING CAPACITY BLDG. FOOTINGS 6,000 PSF
REQUIRED BEARING CAPACITY TOWER FOUNDATION - SEE GEOTECHNICAL REPORT

THE CONTRACTOR SHALL EXERCISE GREAT CARE DURING EXCAVATION. THE CONTRACTOR SHALL PREDETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST.

THE SUBSURFACE REPORT IS NOT TO BE CONSIDERED AS A COMPLETE RECORD OF THE EXISTING CONDITIONS AT THE SITE. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, INCLUDING SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER PRIOR TO SITE ENTRY FOR THE PURPOSE OF VERIFICATION OF EXISTING CONDITIONS.

FOUNDATION SUBGRADES SHALL BE HAND TRIMMED AND COMPACTED. ALL BACKFILL TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.

4. CONCRETE WORK:
CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED BY A QUALIFIED CONCRETE TESTING COMPANY. THE GENERAL CONTRACTOR SHALL PROVIDE THREE (3) CYLINDER SAMPLES TAKEN PER TRUCK AND THE CONCRETE MUST MEET A 4" SLUMP. THE GENERAL CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF TESTING RESULTS TO VERIZON WIRELESS CONSTRUCTION MANAGER. FAILURE TO PROVIDE WRITTEN DOCUMENTATION WILL RESULT IN A DEDUCTION FROM THE CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS IN TESTING DUE TO DELAYS BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS. USE AIR ENTRAINMENT IN EXTERIOR SLABS.

NOTE:

VERIFY BUILDING FOUNDATION DETAILS & UTILITY ENTRANCE OPENING WITH BUILDING MANUFACTURER'S STANDARD FOUNDATION PLAN AND DETAILS.



PROJECT NUMBER 2011036.04
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CHECKED BY: LJB

SITE NAME

FRANKLIN WEST CELL SITE

SITE #

PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815

SITE ADDRESS

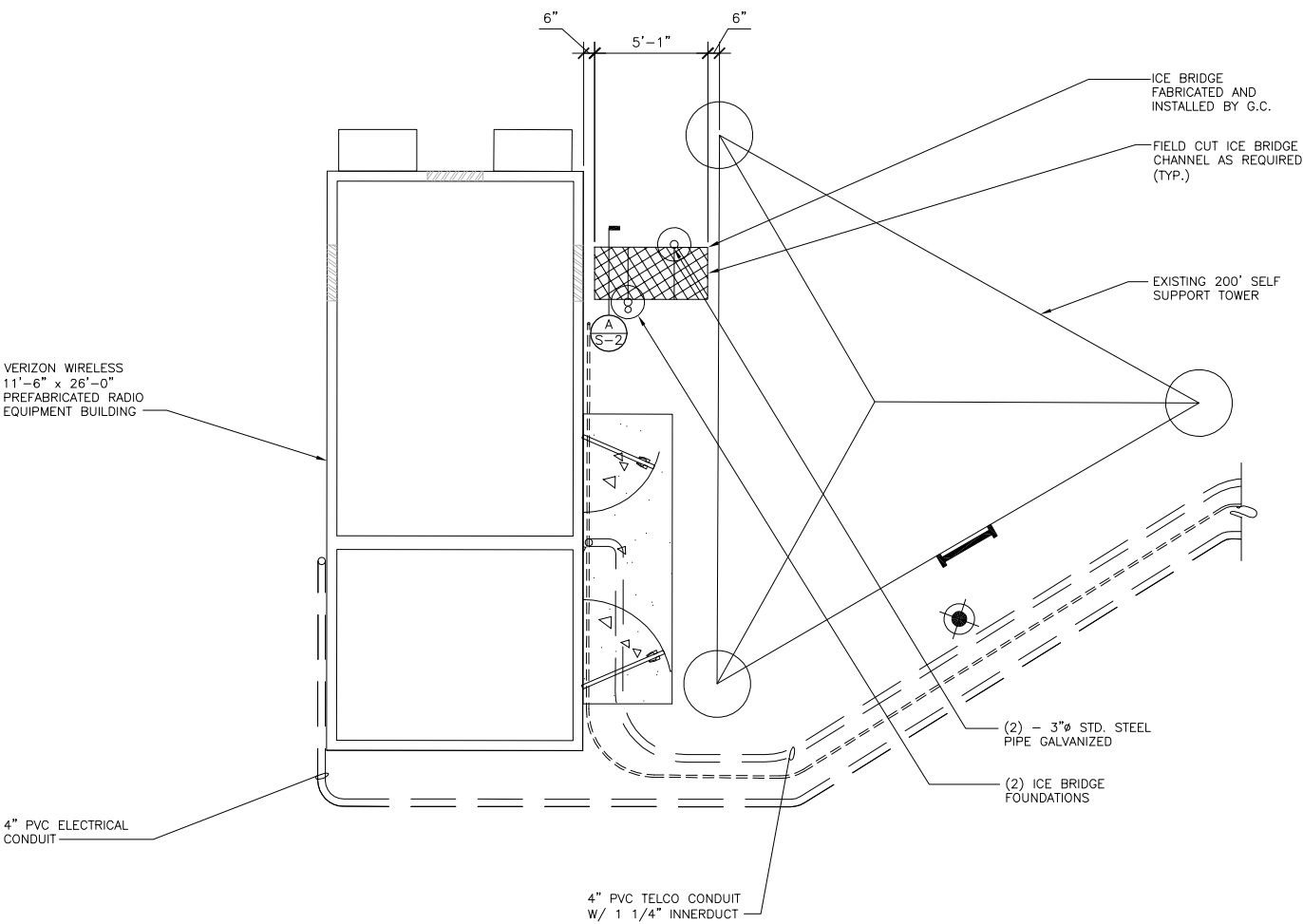
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JOHNSON COUNTY

SHEET TITLE

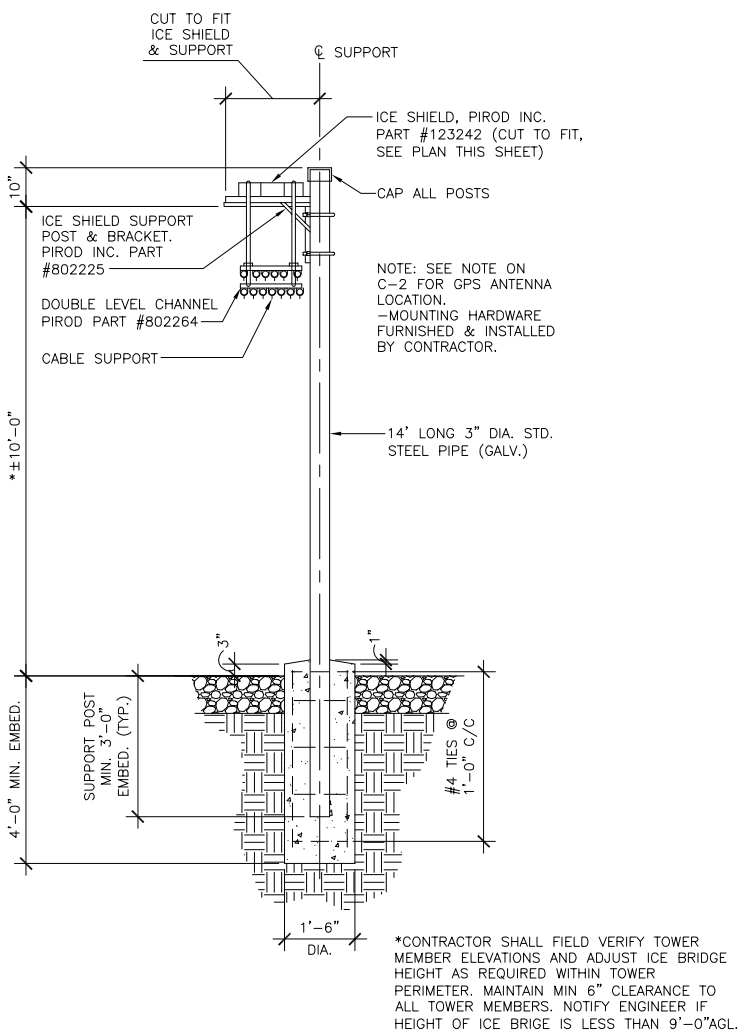
FOUNDATION DETAILS & NOTES

SHEET NUMBER

S-1



ICE BRIDGE PLAN
SCALE: 1/4" = 1'-0"



ICE BRIDGE SECTION
SCALE: 1/2" = 1'-0"

GTE MOBLINET OF INDIANA LIMITED
PARTNERSHIP with VERIZON WIRELESS

verizonwireless

220 E. 36TH STREET
INDIANAPOLIS, INDIANA 46240

GPD GROUP.

Glaus, Pyle, Schomer, Burns & DeHaven, Inc.

8275 Allison Pointe Trl, Suite 220
Indianapolis, Indiana 46250
317-299-2996 Fax 317-293-1331

PROJECT NUMBER 2011036.04

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PROJECT # 2010550142
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SITE ADDRESS

1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY

SHEET TITLE

ICE BRIDGE DETAILS

SHEET NUMBER

S-2

PREFABRICATED RADIO EQUIPMENT BUILDING LIFTING PROCEDURES FOR SHELTERS 24’ OR LONGER

SCALE: N.T.S.

NOTE: ANY RIGGING OTHER THAN LISTED AND SHOWN BELOW MUST BE APPROVED BY BUILDING ENGINEERING DEPARTMENT PRIOR TO LIFTING OF SHELTER.

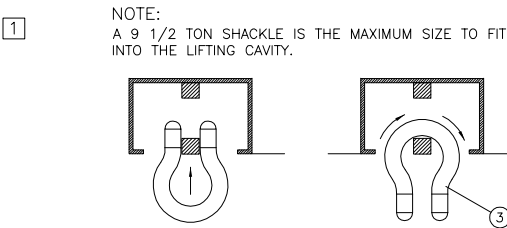
YOU WILL NEED

- ① 4 EACH—15’ MINIMUM WIRE ROPE SLINGS, EACH WITH MINIMUM 15 TON SAFE WORKING LOAD.
- ② 4 EACH—30’ MINIMUM WIRE ROPE SLINGS, EACH WITH MINIMUM 15 TON SAFE WORKING LOAD.
- ③ 4 EACH—SNATCH BLOCKS TO LEVEL THE WEIGHT ON EACH WIRE ROPE.
- ④ 2 EACH—SPREADER BEAMS WITH A MINIMUM 13’ WIDE (RATED TO CARRY 15 TONS).
- ⑤ 8 EACH—SHACKLES (HORSESHOE TYPE) WITH A MINIMUM 7.5 TON SAFE WORKING LOAD.
- ⚠ CAUTION! FOR PERSONAL SAFETY, USE ONLY OSHA RATED RIGGING AND HARDWARE.

1 SHACKLE ATTACHMENT

- A. LOCATE THE EIGHT (8) LIFTING CAVITIES IN THE SHELTER BASE FRAME; FOUR UNDER EACH LONGWALL.
- B. LOOP SHACKLE AROUND VERTICAL POST INSIDE THE LIFTING CAVITY.

- ⚠ CAUTION! THE FOLLOWING INSTRUCTIONS ARE FOR EXPERIENCED RIGGERS ONLY; ALL OTHERS STAND CLEAR OF CRANE OPERATIONS TO AVOID INJURY OR DEATH.

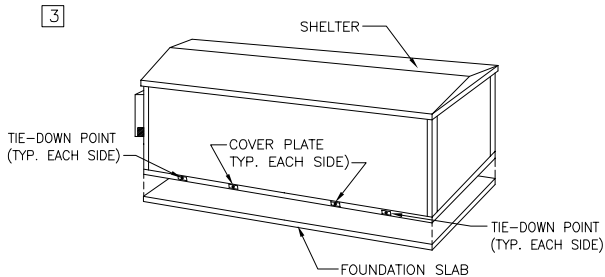


IN PACKING (INSIDE SHELTER) FIND...

- ① BEARING PADS (SHIMS)—1/4 X 3 X 3.
- ② TIE-DOWN BRACKETS (4 EACH).
- ③ 3/4-10 X 6-1/4 ANCHOR BOLTS (4 EACH)
- ④ .060 X 4 1/2 X 11 1/2 ALUMINUM COVER PLATES (4 EACH)

3 SETTING OF SHELTER

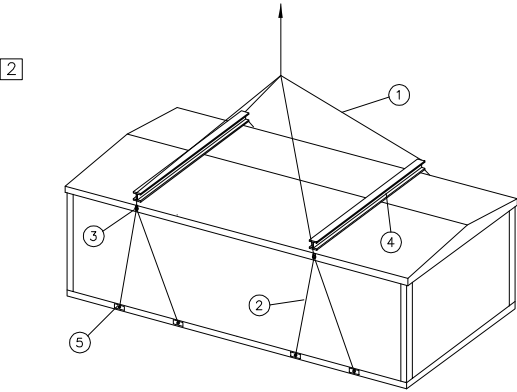
- A. MEASURE SHELTER WIDTH AND FOUNDATION WIDTH. THE SHELTER SHOULD BE FLUSH WITH THE OUTSIDE CHAMFER OF THE CONCRETE FOUNDATION ONCE IT IS PLACED ON THE SLAB.
- B. LIFT SHELTER FROM TRAILER AND POSITION OVER THE SLAB.
- C. CAREFULLY LOWER ONTO SLAB, ENSURING THAT ALL FOUR CORNERS ARE LEVEL AND SHELTER SETS SQUARELY ON SLAB.
- D. BEFORE DISCONNECTING THE RIGGING CHECK TO MAKE SURE THE SHELTER IS SETTING FLUSH TO THE SLAB.
- E. IF GAPS, 1/4" OR MORE, ARE SHOWING IN AN AREA 2 FEET WIDE AND LONGER, THEN MARK THE AREA, PICK THE SHELTER UP A FEW INCHES AND PLACE SHIMS AT 12" O.C.
- F. IF THE SHELTER SITS FLUSH OR AFTER SHIMMING THE GAPS IS DONE, DISCONNECT THE RIGGING AND REMOVE THE SHACKLES.



2 RIGGING

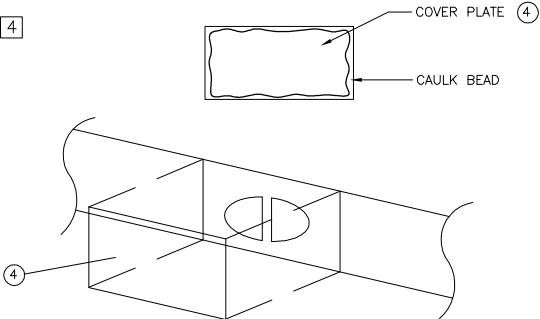
- A. CONFIGURE RIGGING VERTICALLY TO LATERAL SPREADER BARS AS SHOWN IN THE FIGURE AT RIGHT. SPREADER BEAMS SHOULD BE WIDER THAN ROOF. IF NOT, PLACE WOOD OR RUBBER BLOCKING AT ROOF OVERHANG AND BEHIND SHACKLES AT BASE FRAME TO PREVENT DAMAGE TO SHELTER.
- ⚠ CAUTION! VERIFY SHELTER WEIGHT AND SAFE WORKING LOADS OF HARDWARE AND RIGGING BEFORE PROCEEDING.
- B. LIFT SHELTER A FEW INCHES AND MAKE SURE IT IS PICKING LEVEL. IF NOT, LOWER AND ADJUST RIGGING AS NEEDED TO PICK SHELTER AS LEVEL AS POSSIBLE.
- C. SEE TECHNICAL BULLETIN ON SHELTER PLACEMENT/TIE-DOWN OR SHELTER LOADING ON TRAILER. FOR PROPER SITTING OF SHELTER.

NOTE:
ANY RIGGING OTHER THAN THAT LISTED AND SHOWN ABOVE MUST BE APPROVED BY BUILDING ENGINEERING DEPARTMENT PRIOR TO LIFTING OF SHELTER.



4 COVER PLATE INSTALLATION

- A. APPLY A 1/4" BEAD OF CAULK ON UNFINISHED SIDE OF THE COVER PLATE APPROXIMATELY 1/4" FROM THE EDGE.
- B. PLACE COVER OVER THE LIFTING CAVITY. APPLY PRESSURE TO PLATE UNTIL SET.



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CHECKED BY: LJB

SITE NAME

**FRANKLIN
WEST
CELL SITE**

SITE #

**PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815**

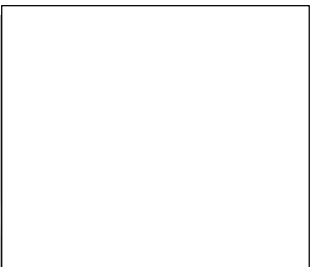
SITE ADDRESS

**1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY**

SHEET TITLE

**PREFABRICATED RADIO
EQUIPMENT BUILDING
LIFTING PROCEDURES**

SHEET NUMBER



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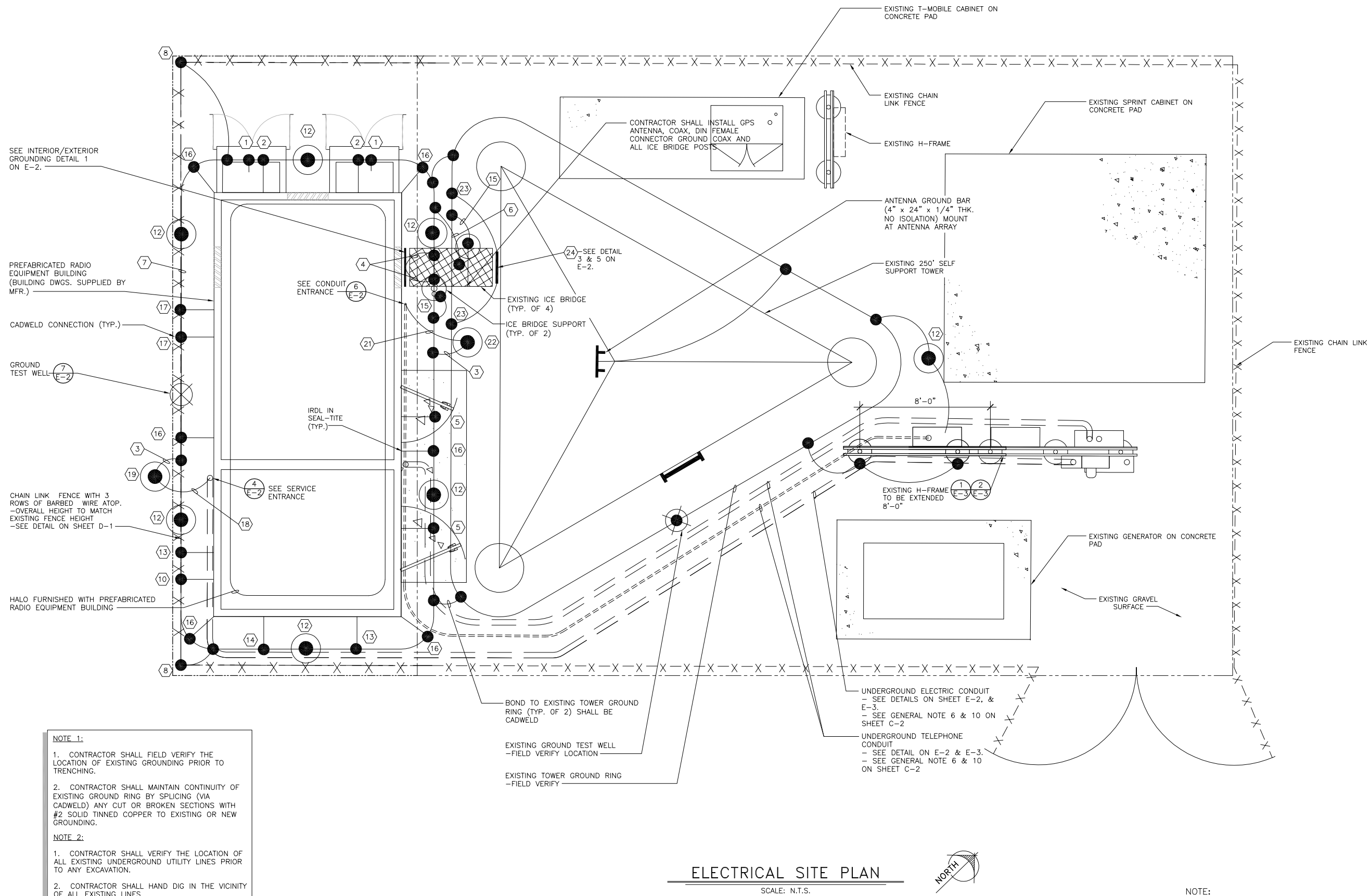
**1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY**

SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

E-1



NOTE 1:
1. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING GROUNDING PRIOR TO TRENCHING.
2. CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING GROUND RING BY SPLICING (VIA CADWELD) ANY CUT OR BROKEN SECTIONS WITH #2 SOLID TINNED COPPER TO EXISTING OR NEW GROUNDING.

NOTE 2:
1. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION.
2. CONTRACTOR SHALL HAND DIG IN THE VICINITY OF ALL EXISTING LINES.

ELECTRICAL SITE PLAN

SCALE: N.T.S.



NOTE:
ALL ABOVE GRADE GROUND LEADS TO
BE INSTALLED IN 3/4\"/>

GROUNDING KEYED NOTES

- 1

ACCG

E.C. SHALL FURN. & INST. 1 – #2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM THE TWO HVAC UNITS CAGES TO (EER). CONNECTION TO HVAC UNITS CAGES SHALL BE MECHANICAL AND CADWELD TO (EER).
- 2

ACH:

E.C. SHALL FURN. & INST. 1 – #2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM THE TWO HVAC UNITS TO (EER). CONNECTION TO HVAC UNITS SHALL BE MECHANICAL AND CADWELD TO (EER).
- 3

BBO:

E.C. SHALL FURN. & INST. #2 AWG BARE SOLID TINNED COPPER GND. WIRE, ONE FROM POWER CO. GROUND ELECTRODE (PGE) & ONE TELEPHONE ENTRANCE GROUND (TEG) BOTH TO (EER). CONNECTIONS TO (PGE), (TEG) & (EER) SHALL BE CADWELD.
- 4

CEPSG:

E.C. SHALL ATTACH THE GROUND BAR FOR THE COAX ENTRY PROTECTION SYSTEM (AS MFG'D. BY "POLYPHASER CORP., AND SUPPLIED WITH THE BUILDING) TO THE EXTERIOR ELECTRODE GROUND RING (EER) USING CADWELD. REFER TO THE GENERAL INSTALLATION GUIDE AS SUPPLIED WITH SAID POLYPHASER ENTRY ASSEMBLY.
- 5

CG:

E.C. SHALL FURN. & INST. 2 – #2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM THE 2 EXISTING DOOR CANOPIES TO (EER). CONNECTION TO DOOR CANOPIES SHALL BE MECHANICAL AND CADWELD TO (EER).
- 6

CSG:

E.C. SHALL FURN. & INST. 1 – #2 AWG BARE SOLID TINNED COPPER GND WIRE FROM ICE BRIDGE CHANNEL TO (EER). CONNECTION TO ICE BRIDGE CHANNEL AND (EER) SHALL BE CADWELD.
- 7

EER:

E.C. SHALL FURN. & INST. #2 AWG BARE SOLID TINNED COPPER BURIED EXTERIOR ELECTRODE GROUND RING (EER) BURIED AT 36"
- 8

FG:

E.C. SHALL FURN. & INST. 1 – #2 AWG BARE SOLID TINNED COPPER GND WIRE FROM NEW FENCING TO GROUND RING (EER). CONNECTION TO FENCING SHALL BE AT THE BASE OF FENCE POST USING CADWELD AND WEAVE GND. WIRE THRU FABRIC AND ATTACH TO TOP RAIL WITH CADWELD. CONNECTION TO (EER) SHALL BE CADWELD.
- 9

NOT USED
- 10

GEG:

E.C. SHALL FURN. & INST. 1 – #2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM THE EXISTING GENERATOR EXHAUST TO (EER). CONNECTION TO GENERATOR EXHAUST SHALL BE MECHANICAL AND CADWELD TO (EER).
- 11

NOT USED
- 12

GRE:

E.C. SHALL FURN. & INST. GROUND RODS TO 36" BELOW FINISH GRADE AT A MINIMUM SPACING OF 10'-0". CONNECTION TO (EER) SHALL BE CADWELD.
- 13

GVLG:

E.C. SHALL FURN. & INST. 2 – #2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM THE 2 EXISTING GENERATOR VENT LOUVERS TO (EER). CONNECTION TO GENERATOR VENT LOUVERS SHALL BE MECHANICAL AND CADWELD TO (EER).
- 14

GVPG:

E.C. SHALL FURN. & INST. 1 – #2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM THE EXISTING GENERATOR VENT PIPE TO (EER). CONNECTION TO GENERATOR VENT PIPE SHALL BE MECHANICAL AND CADWELD TO (EER).
- 15

IBSG:

E.C. SHALL FURN. & INST. 1 – #2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM ICE BRIDGE SUPPORT POST TO (EER). CONNECTION TO ICE BRIDGE SUPPORT POST & (EER) SHALL BE CADWELD.
- 16

IRDL:

E.C. SHALL CONNECT EXISTING (SUPPLIED WITH BLDG.) #2 AWG BARE SOLID TINNED COPPER GND WIRE DOWN LEAD FROM EXISTING BLDG. INTERIOR GND. HALO TO (EER). CONNECTION TO (EER) SHALL BE CADWELD. ALSO EC SHALL SEAL ALL EXISTING WALL PENETRATIONS WITH WATERPROOF SILICONE SEALANT.
- 17

MGB:

MASTER GROUND BAR 2 LEADS (MGB) IS TO BE TIED TO EER DIRECTLY USING COMPRESSION LUGS AND GREEN STRANDED CABLE THAT IS CALDWELD TO #2 AWG BARE SOLID TINNED COPPER GROUND WIRE BEFORE EXITING THE BUILDING. THE ELECTRIC CONTRACTOR WILL NOT MAKE CONNECTION TO THE MGB, BUT WILL PROVIDE SUFFICIENT CABLE LENGTH TO CONNECT TO THE MGB.
- 18

MGN:

E.C. SHALL FURN. & INST. #2 BARE SOLID TINNED COPPER CONDUCTOR FROM MAIN A/C SERVICE DISCONNECT SWITCH NEUTRAL BUS BAR TO (PGE). CONNECTION TO (PGE) SHALL BE CADWELD AND TO A/C SERVICE DISCONNECT SWITCH NEUTRAL BUS BAR SHALL BE MECHANICAL.
- 19

PGE:

E.C. SHALL FURN. & INST. GROUND ROD (POWER GROUND ELECTRODE) AT 36" BELOW FIN. GRADE.
- 20

NOT USED
- 21

TEG:

E.C. SHALL FURN. & INST. #2 AWG BARE SOLID TINNED COPPER GND. WIRE (TELEPHONE ENTRANCE GROUND) FROM (TGE) TO PLYWOOD TELEPHONE MOUNTING BOARD LOCATED ON BLDG. INTERIOR WALL. CONNECTION TO (TGE) SHALL BE CADWELD AND LOOP AND ATTACH TO PLYWOOD BOARD.
- 22

TGE:

E.C. SHALL FURN. & INST. GROUND ROD (TELCO GROUND ELECTRODE) AT 36" BELOW FIN. GRADE.
- 23

TWG:

E.C. SHALL FURN. & INST. 2 – #2 AWG BARE SOLID TINNED COPPER GND. WIRES FROM TOWER WAVEGUIDE GROUND BAR (TWGG) TO (EER). CONNECTION TO (TWGG) SHALL BE CADWELD AND TO (EER) SHALL BE CADWELD. SEE DETAIL DWG. E-2.
- 24

TWGG:

TOWER WAVEGUIDE GROUND BAR. SEE DETAIL DWG E-2.

GROUNDING NOTES

- ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE E.C. SHALL FURN. & INST. 5/8" x 10' COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
- THE E.C. SHALL FURN. & INST. No.2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE BUILDING (EER) AND ICE BRIDGE (CSG).
- ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD.
- ALL CRIMP LUG CONNECTIONS TO ALL GROUND BARS SHALL BE LUBRICATED WITH A CORROSION INHIBITER ("OXY-GREASE") OR APPROVED EQUAL.
- UPON COMPLETION OF THE GROUNDING RING AND BEFORE BONDING TO THE EXISTING RING, THE CONTRACTOR SHALL MEGGER TEST THIS GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE CONTRACTOR SHALL SUBMIT PRICING TO VERIZON WIRELESS FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM VERIZON WIRELESS, THE CONTRACTOR SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THEN THE CONTRACTOR SHALL BOND THE NEW RING TO THE EXISTING RING. THE CONTRACTOR SHALL NOTIFY VERIZON WIRELESS 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS AND GUY WIRES, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
- GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
- GROUND BARS (TWGG & CEPSG) SHALL BE 1/4" x 4" x 24" SOLID COPPER. PROVIDE TWO (2) LUG HOLES PER VERIZON STANDARDS.
- BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT, PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.
- CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.
- NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
- ALL GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.

GENERAL ELECTRICAL NOTES

- UNLESS NOTED OTHERWISE, ALL WORK ITEMS ON SHEETS E-1, E-2 & E-3 SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. ALL WORK SHOWN AS NEW UNLESS NOTED EXISTING.
- THE ELECTRICAL CONTRACTOR SHALL BE LICENSED TO PERFORM WORK IN THE COUNTY OF THIS PROJECT AND SHALL BE RESPONSIBLE FOR OBTAINING AN ELECTRICAL PERMIT FROM THE COUNTY.
- UNDERGROUND CONDUIT SHALL BE SCH. 40 PVC PLASTIC DUCT WITH ALL BENDS SHALL BE 2' RADIUS 90° SWEEP UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL WORK SHALL BE IN ACCORDANCE WITH N.F.P.A. AND N.E.C. CODES, NEMA STANDARDS AND ALL LOCAL CODES.
- PRIOR TO TRENCHING AND FOR COORDINATING OF THE TELEPHONE AND ELECTRICAL SERVICES, SEE SHEET C-3 GENERAL NOTE #2 FOR UTILITY CONTACT NAMES & PHONE NUMBERS.
- ABOVE GRADE RISER CONDUIT SHALL BE RIGID SCH. 40 PVC WITH MATCHING FITTINGS.
- ALL WIRE SHALL BE COPPER, 600V THHN/THWN 90°C UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL ABIDE BY ALL GUIDELINES REQUIRED BY VERIZON WIRELESS, INCLUDING BUT NOT LIMITED TO, a) STAGE CONSTRUCTION AND REPORT WHEN ON AND OFF THE SITE. b) PROVIDE LOG BOOK RECORDS OF PERSONNEL ON TOWER. c) PROVIDE R.F. MONITORING DEVICES TO TOWER PERSONNEL. d) VERIZON WIRELESS TO INSPECT ALL TRENCHING BEFORE BACKFILLING.
- THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK SHOWN ON THE CABINET DRAWINGS NOTED "FIELDWORK" OR OTHERWISE NOTED AS WIRING TO BE COMPLETED IN THE FIELD.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL SERVICE REQUIRED – 120/240V, SINGLE PHASE, 200 AMP BEFORE ROUGH IN.
- THE COPPER WAVEGUIDE ENTRANCE PANEL AT THE WAVEGUIDE ENTRANCE PORT SHALL BE ASSEMBLED USING COPPER JOINT COMPOUND AND BOLTED COMPRESSION CONNECTIONS. THE LOW INDUCTANCE COPPER GROUNDING STRAPS ARE ATTACHED TO THE EXTERIOR OF THE PANEL USING JOINT COMPOUND AND BOLTED TO THE PANEL. THE CONNECTIONS OF THE GROUNDING STRAPS TO THE EARTH ELECTRODE RING ARE VIA A SANDWICH BAR THAT IS COATED W/COPPER COMPOUND (SEE GROUND STRAPS DETAIL ON THIS SHEET) AND BOLTED TO THE STRAPS. THE SANDWICH BAR IS THEN EXOTHERMICALLY WELDED TO THE #2 SOLID BARE TINNED COPPER EARTH ELECTRODE GROUND RING. THE SANDWICH BAR SHALL BE SOLDERED TO PREVENT CORROSION OF THE CONNECTION WHEN IT IS BURIED IN THE GROUND. ALSO IF SOIL CONDITIONS ARE HIGHLY CORROSIVE (SEE SOIL REPORT), SPECIAL TINNED COPPER GROUNDING STRAPS SHALL BE USED AND ARE AVAILABLE THROUGH CLIENT RECOMMENDED MANUFACTURERS.
- CONTRACTOR SHALL PROVIDE FIRE WATCH DURING ALL WELDING OPERATIONS. TWO (2) HAND HELD 30 LB. FIRE EXTINGUISHER & ADEQUATE WATER SUPPLY SHALL BE APPROVED BY THE CLIENT AND THE TOWNSHIP WATER AUTHORITY.
- SEAL ALL PENETRATIONS WITH SILICONE SEALANT.

LEGEND	
ACCG	AIR CONDITIONER CAGE GROUND
ACH	AIR CONDITIONER GROUND
BBO	BOND TO BURIED OBJECTS
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	DOOR CANOPY GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
FG	FENCE GROUND
GEG	GENERATOR EXHAUST GROUND
GRE	GROUND ROD ELECTRODE
GVLG	GENERATOR VENT LOUVER GROUND
GVPG	GENERATOR VENT PIPE GROUND
IBSG	ICE BRIDGE SUPPORT GROUND
IRDL	INTERIOR RING GROUND DOWN LEAD
MGB	MASTER GROUND BAR
MGN	MULTI-GROUND NEUTRAL
PGE	POWER GROUND ELECTRODE
TEG	TELCO ENTRANCE GROUND
TGE	TELCO GROUND ELECTRODE
TWG	TOWER WAVEGUIDE GROUND BAR GND. WIRE
TWGG	TOWER WAVEGUIDE GROUND BAR
●	CABLE TO CABLE CADWELD CONNECTION
⊙	CABLE TO GND. ROD CADWELD CONNECTION
⊗	TEST WELL



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SITE NAME

FRANKLIN WEST CELL SITE

SITE #

PROJECT # 2010550142
MARKET # 100028
LOCATION # 249815

SITE ADDRESS

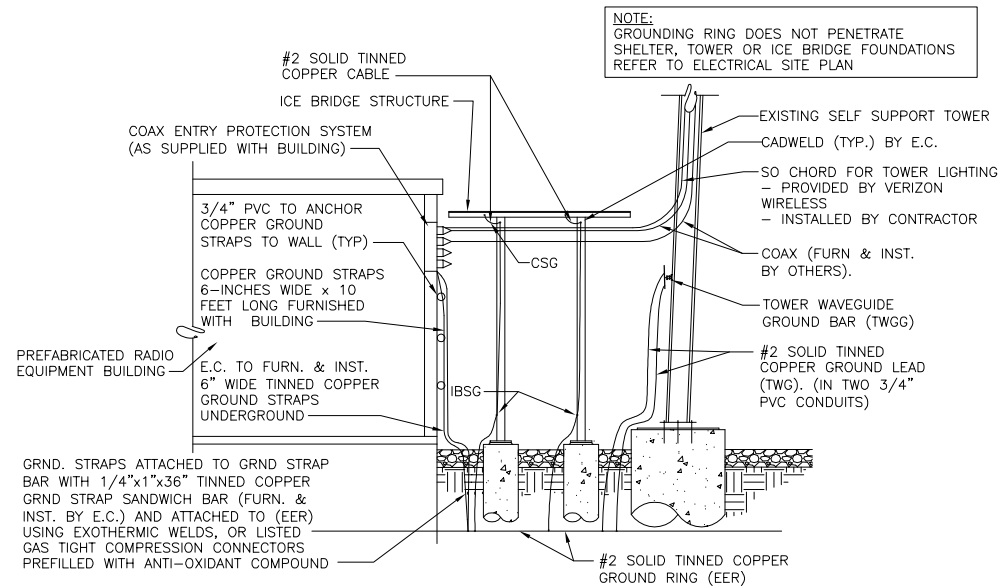
1071 HOSPITAL ROAD
FRANKLIN, INDIANA 46131
JOHNSON COUNTY

SHEET TITLE

ELECTRICAL AND GROUNDING NOTES

SHEET NUMBER

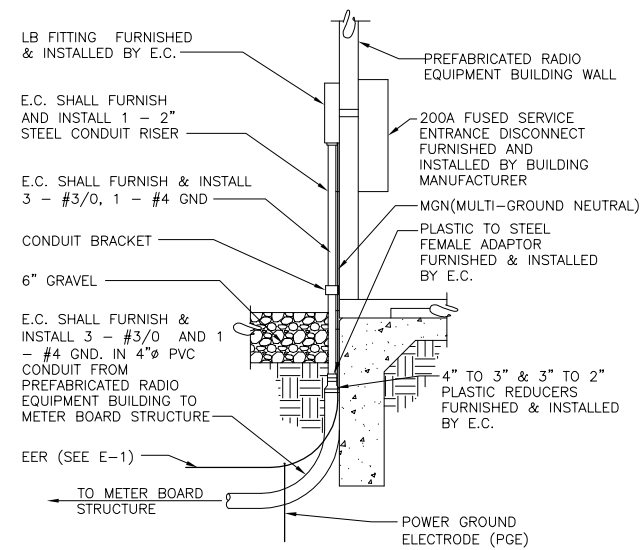
E-1a



INTERIOR/EXTERIOR GROUNDING DETAIL

SCALE: N.T.S.

1
E-2

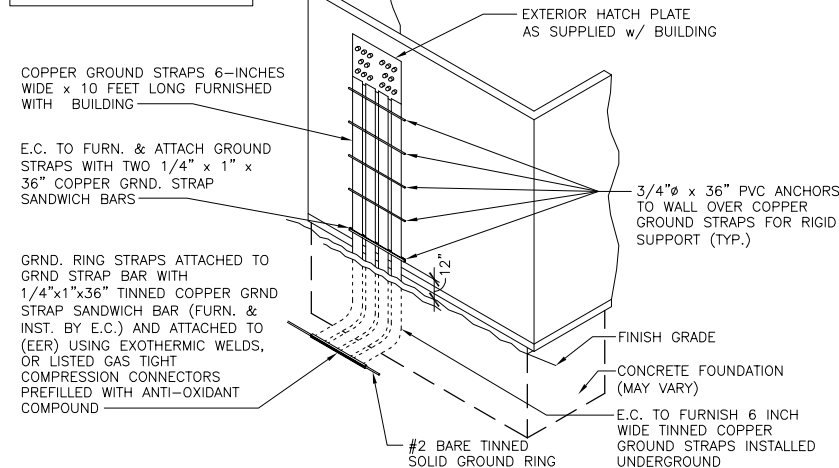


SERVICE ENTRANCE DETAIL

SCALE: N.T.S.

4
E-2

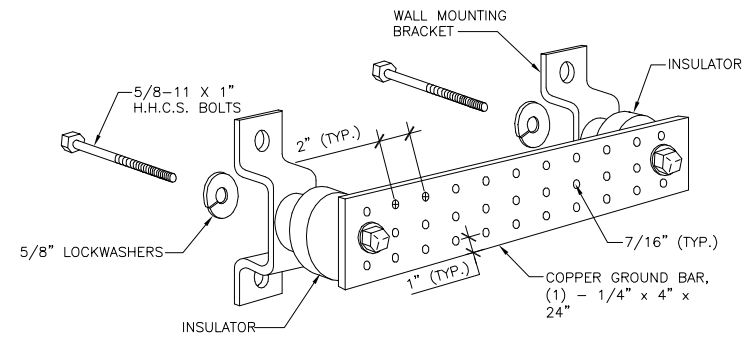
NOTE: ALL CONNECTIONS TO UPPER GROUND STRAP AND BELOW GRADE MUST BE TINNED



GROUND STRAPS DETAIL

SCALE: N.T.S.

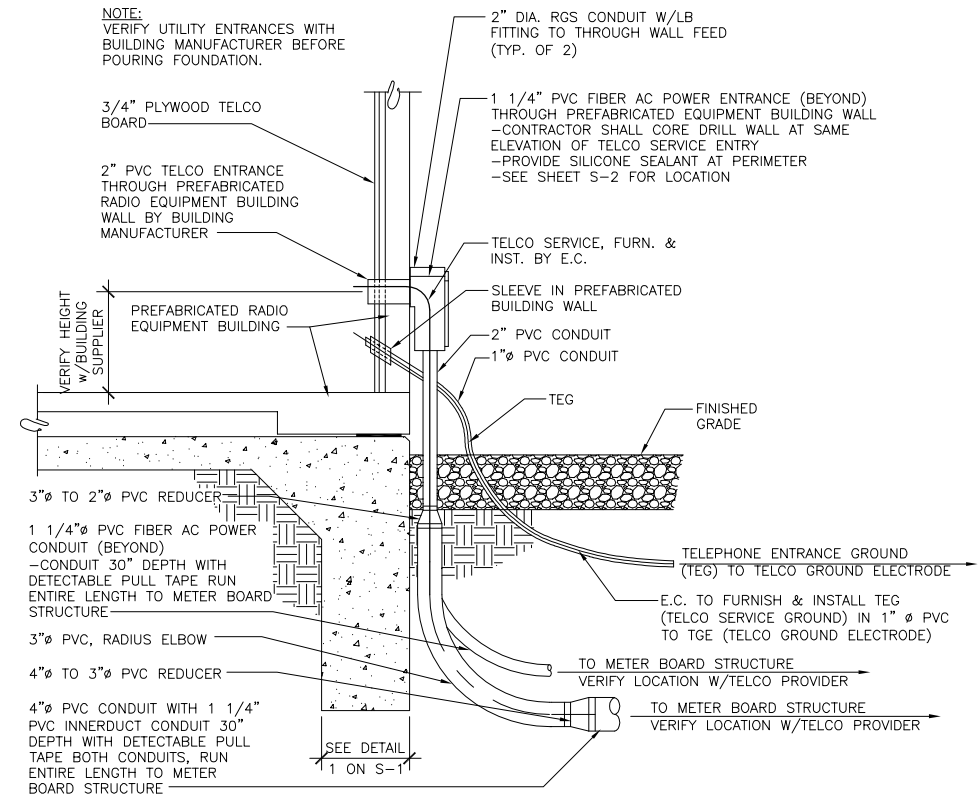
2
E-2



TOWER WAVEGUIDE GROUND BAR (TWGG)(CEPSG)

SCALE: N.T.S.

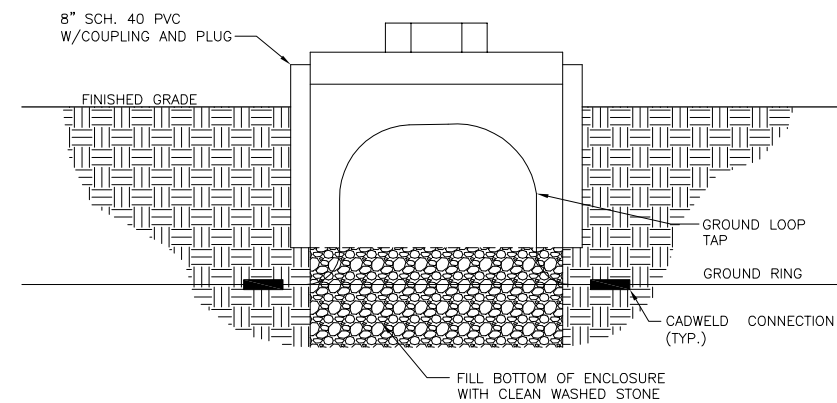
5
E-2



TELEPHONE CONDUIT ENTRANCE DETAIL

SCALE: N.T.S.

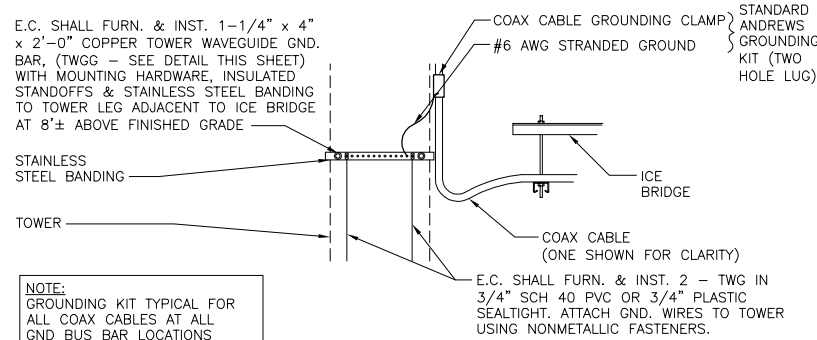
6
E-2



GROUND TEST WELL DETAIL

SCALE: N.T.S.

7
E-2



TOWER WAVEGUIDE GROUND BAR INSTALLATION DETAIL

SCALE: N.T.S.

3
E-2



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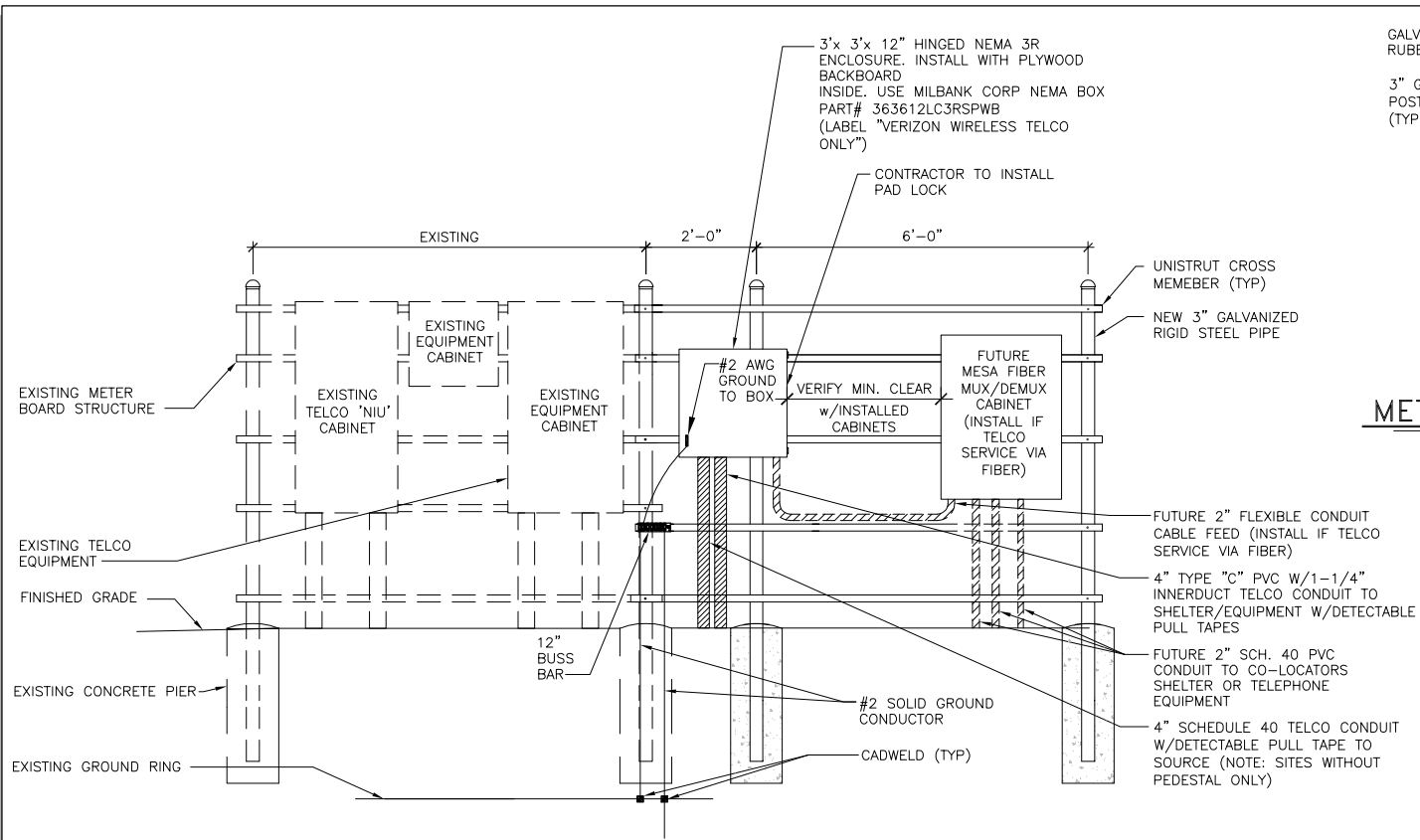
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JOHNSON COUNTY

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E-2

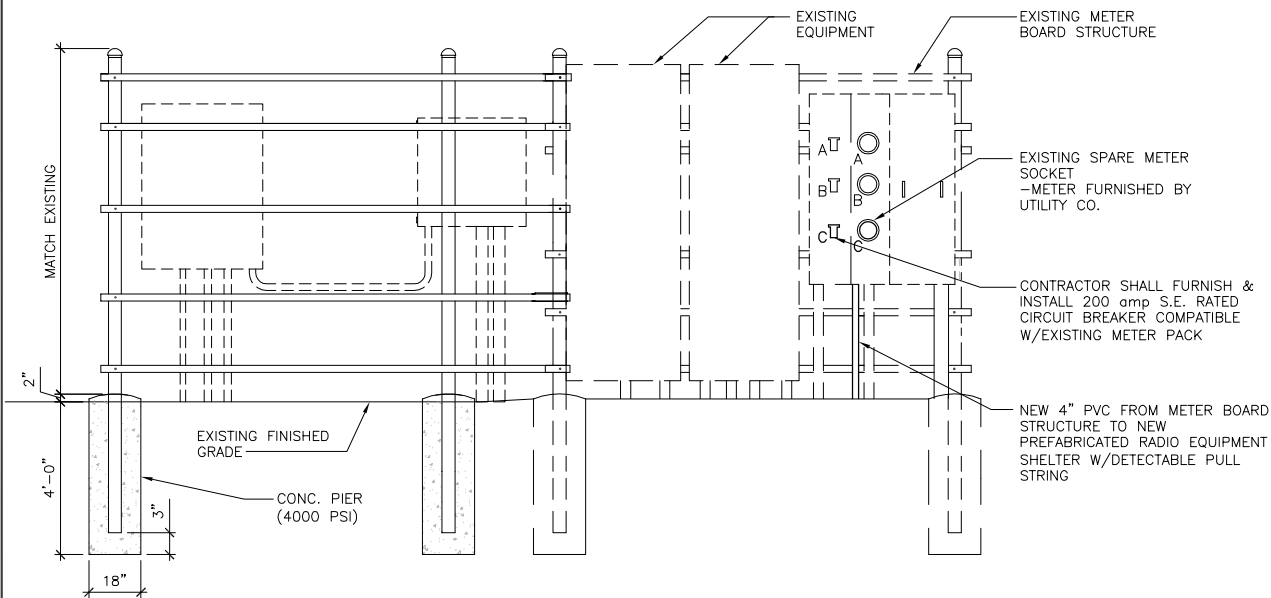


EXTENDED METER BOARD STRUCTURE-TELCO SIDE

SCALE: 1/2" = 1'-0"

1
C-2

1
E-1

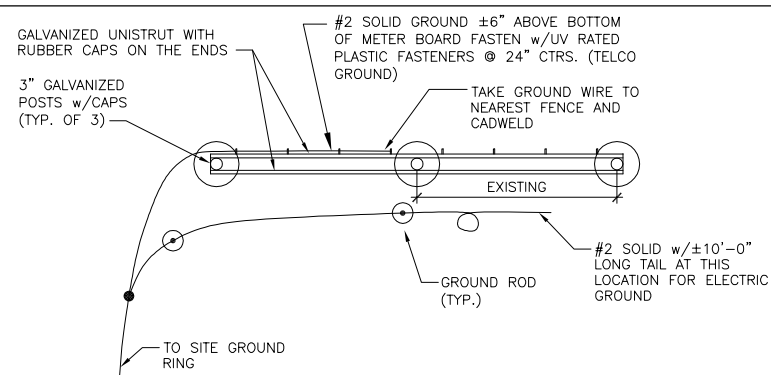


EXTENDED METER BOARD STRUCTURE-ELECTRIC SIDE

SCALE: 1/2" = 1'-0"

2
C-2

2
E-1



METER BOARD STRUCTURE GROUND PLAN

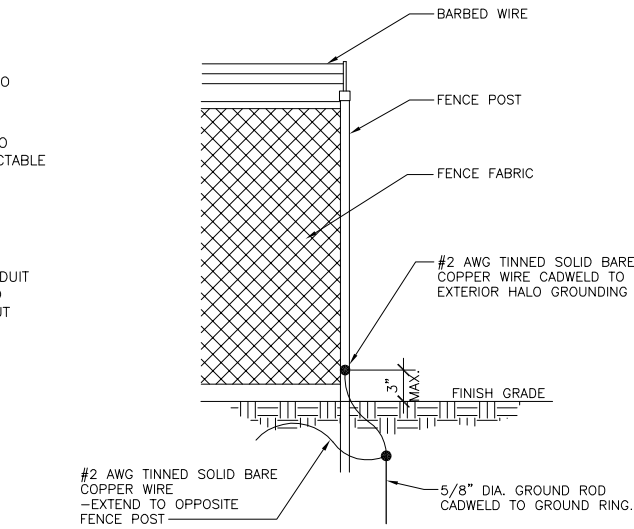
SCALE: N.T.S.

3
E-1

GROUND ROD DETAIL

SCALE: N.T.S.

6
E-1



FENCE GROUNDING DETAIL

SCALE: N.T.S.

4
E-1

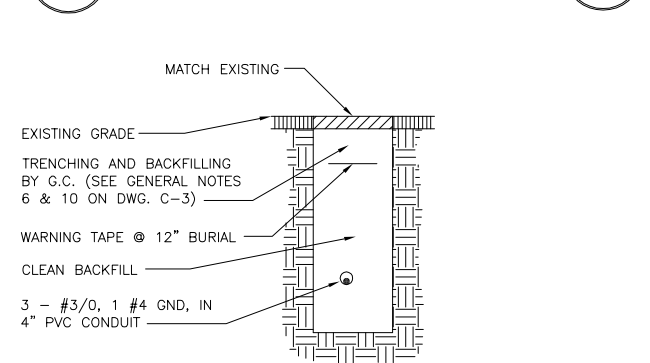
NOT USED

SCALE: N.T.S.

5
E-1

NOTES:

- ELECTRICAL SERVICE FOR EACH CARRIER SHALL BE RATED 200A, 240/120V, 1Ø, 3W. COORDINATE METER CENTER ACCEPTABILITY W/LOCAL UTILITY COMPANY PRIOR TO ORDERING AND INSTALLATION.
- CONNECT NEUTRAL TERMINAL IN DISCONNECTING DEVICE TO GROUNDING ELECTRODE. (#6 AWG GROUNDING ELECTRODE IN 3/4" PVC CONDUIT)
- PROVIDE GROUNDING ELECTRODE AND CONNECT TO METER AND SERVICE DISCONNECT PER NEC AND PER UTILITY COMPANY SPECIFICATIONS.
- REFER TO ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE REQUIREMENTS.
- ALL LABELING MUST BE ENGRAVED PLASTIC LABELS ONLY, NO P-TOUCH LABELS ARE TO BE USED.
- ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED ON GROUNDING PLAN.
- ELECTRICAL EQUIPMENT SHALL BE MIN 3'-0" FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES.
- #2 AWG BARE SOLID TINNED COPPER WIRE BONDED TO GROUNDING SYSTEM (TYP)
- ALL METALLIC CABINETS & ENCLOSURES MUST BE GROUNDED WITH #2 AWG TO GROUND RING OR BY MECHANICAL CONNECTION TO METAL BACKBOARD.
- ALL ABOVE GRADE GROUND CONNECTIONS SHALL BE IN 3/4" NONMETALLIC FLEX CONDUIT.
- ALL HARDWARE USED MUST BE GALVANIZED OR STAINLESS STEEL, NO ZINC OR OTHER MATERIAL IS TO BE USED.

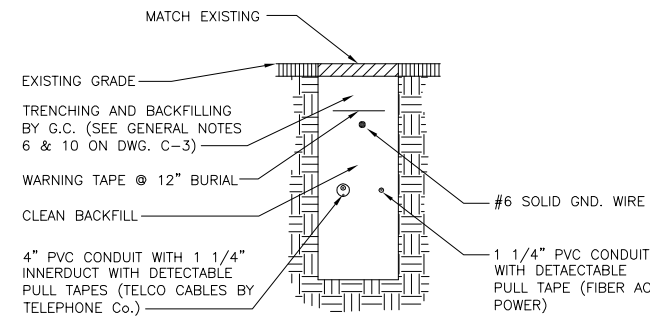


TRENCH SECTION DETAIL

SCALE: N.T.S.

7
C-2

7
E-1

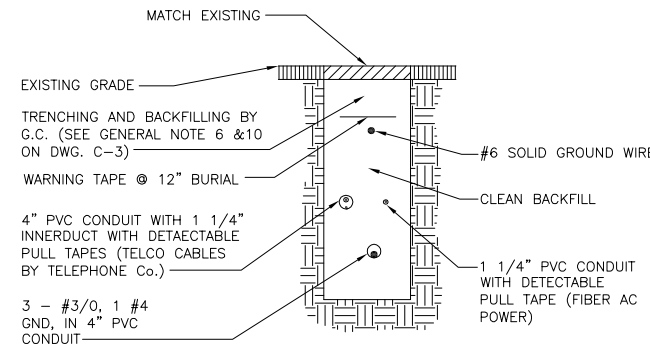


TRENCH SECTION DETAIL

SCALE: N.T.S.

8
C-2

8
E-1



TRENCH SECTION DETAIL

SCALE: N.T.S.

9
C-2

9
E-1



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