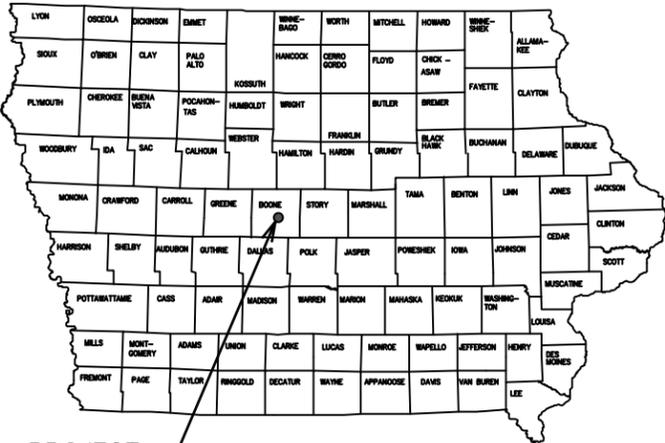




LOCATION MAP



PROJECT LOCATION

CONSTRUCTION DRAWINGS FOR FOTS BUILDING SITE WORK 1308 U AVENUE BOONE, IOWA



PROJECT LOCATION

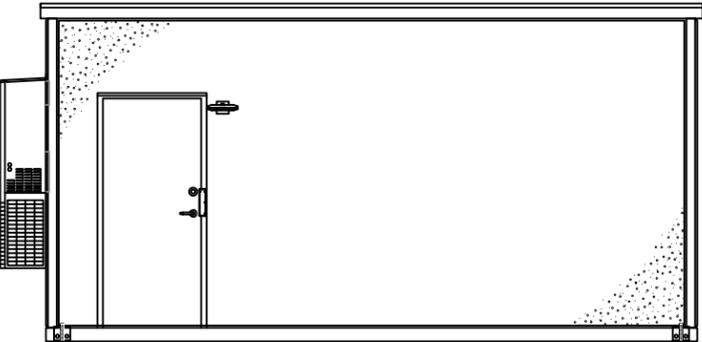


Project Overview:

ICN is relocating a fiber optic switching hut to ISU's Ag Engineering and Agronomy farm. Site work to include concrete slab removal, minor grading, concrete foundation work, white rock surfacing, chain link fencing, and crane service for prefabricated building placement.

ICN Contact:

Mike Broderick (515) 725-4610

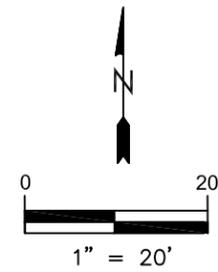
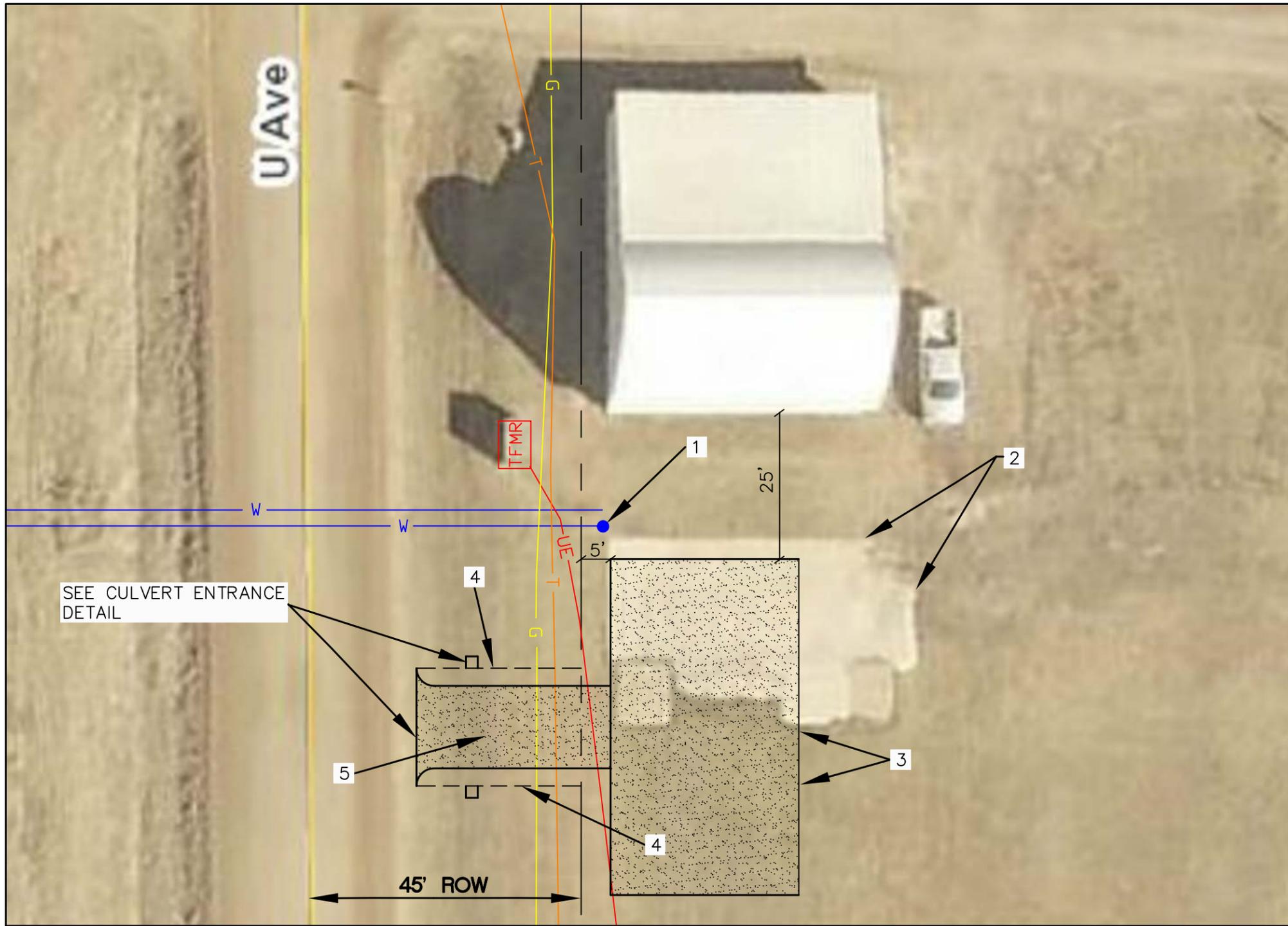


SHEET INDEX	
1	COVER SHEET
2	SITE UTILITIES & GENERAL LAYOUT
3	BUILDING COMPOUND AREA
4	FOUNDATION DETAIL
5	LIFT DETAIL – BUILDING RIGGING

Project Scheduling :

- 8-5-16: Project start
- 9-2-16: Completion of access drive, existing slab tear out, and construction of building foundation.
- 9-2-16 / 9-9-16: Foundation Cure
- 9-9-16 / 9-12-16: Delivery and crane set building.
- 9-13-16 / 9-20-16: Owner placed utilities
- 9-20-16 / 9-26-16: Rock surfacing of compound, Fence Placement, Seed & Mulch

IOWA COMMUNICATIONS NETWORK		THIS DRAWING IS PROVIDED FOR GENERAL INFORMATION ONLY AND IS NOT TO BE USED TO DETERMINE PRECISE ION PLACEMENT. CALL ONE CALL BEFORE EXCAVATION (1-800-292-8989)	
400 EAST 14TH STREET, GRIMES STATE OFFICE BUILDING, DES MOINES, IOWA 50319 ICN © 2015, COPY WITH PERMISSION		ICN	
1	SITE PLAN	JUNE 2016	SCALE: NONE SIZE: 11 x 17
			FOTS BUILDING SITE WORK 1308 U AVENUE, BOONE
			SHEET 1 of 5

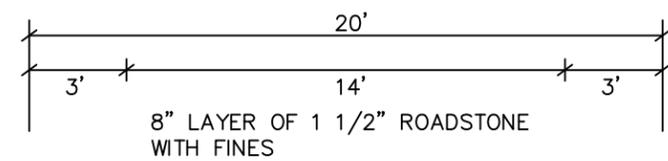


NOTES

1. WATER METER PIT (PROTECT)
2. REMOVE THE EXISTING 20' x 50' CONCRETE SLAB AND THE MISCELLANEOUS ADJOINING CONCRETE ON THE SOUTH. (APPROXIMATELY 360 SF) DISPOSE OF CONCRETE OFF SITE.
3. 57' x 32' BUILDING COMPOUND AREA. REMOVE 6" OF TOP SOIL REMAINING WITHIN COMPOUND BOUNDARY AFTER SLAB REMOVAL. MARGINAL GRADING TO LEVEL, PRIOR TO PLACEMENT OF AN 8" THICK LAYER OF 1 1/2" ROADSTONE WITH FINES. PROOF ROLL TO COMPACT. SLIGHT FIELD ADJUSTMENT OF COMPOUND AREA LOCATION MAY BE NEEDED TO AVOID EXISTING UTILITIES. SEE SHEET 3 FOR COMPOUND LAYOUT.
4. PROVIDE, PLACE, & COMPACT SUITABLE EARTH FILL (APPROXIMATELY 4 CY.) FOR ACCESS DRIVE DITCH AREA.
5. 33' x 14' ROCK DRIVE. REMOVE 6" OF TOPSOIL AND REPLACE WITH 8" THICK LAYER OF 1 1/2" ROADSTONE WITH FINES. TRANSITION PROPOSED DRIVE INTO ROCK SHOULDER ON U AVENUE. PROOF ROLL FOR COMPACTION AND COORDINATE WITH PROPOSED ENTRANCE CULVERT. CENTER DRIVE IN WEST FENCE LINE.
6. SEED AND MULCH ALL DISTURBED AREAS NOT COVERED BY ROADSTONE.



SEE CULVERT ENTRANCE DETAIL



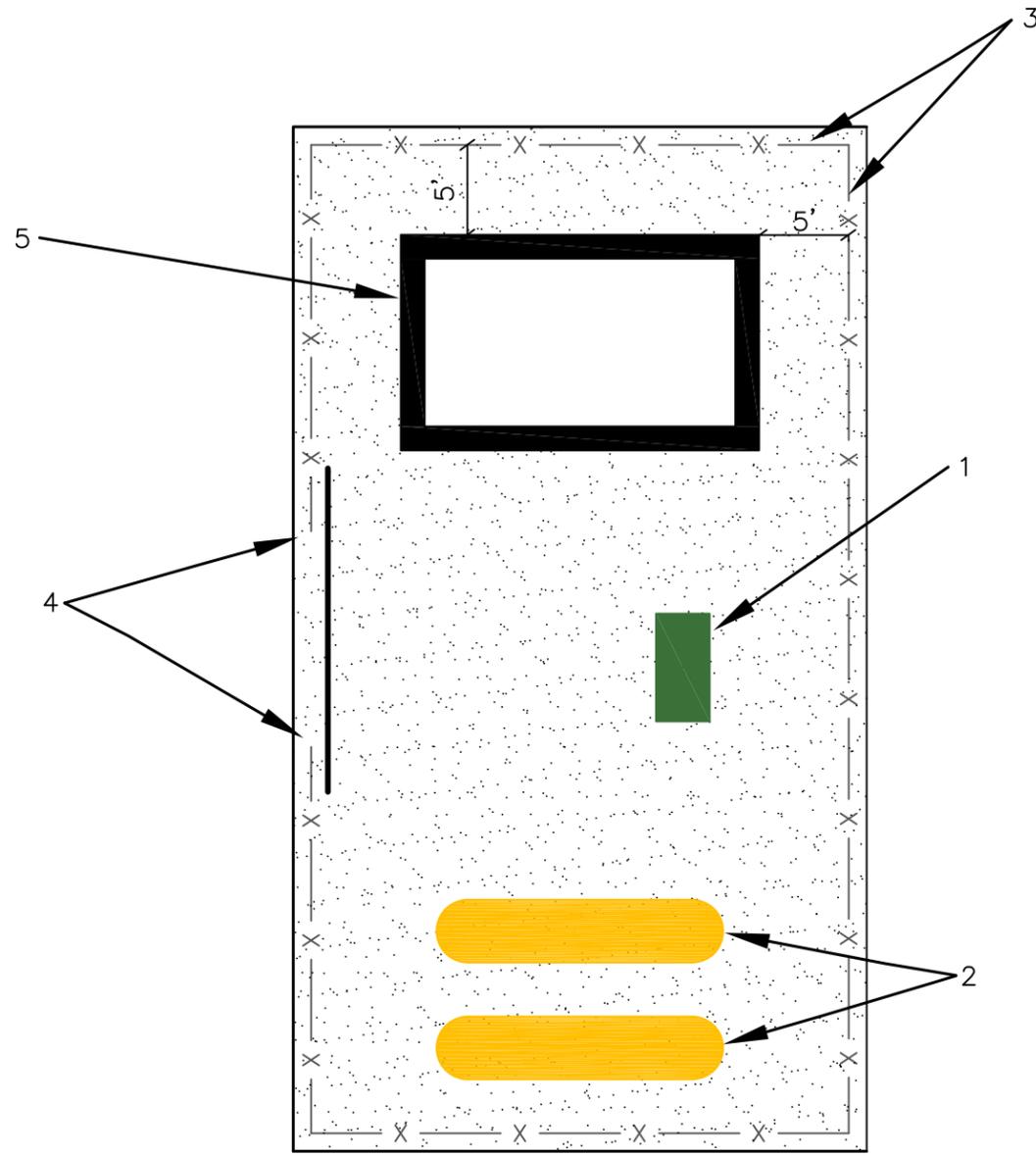
22 LF OF 15" DIA. CMP WITH FLARED END SECTIONS AND TRASH RACKS. SHAPE DITCH AS NEEDED. MATCH DITCH FLOW LINE.

EARTH SHOULDER (TYP) SEED & MULCH SHOULDERS AND DISTURBED AREAS.

CULVERT ENTRANCE DETAIL
NO SCALE

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1	SITE PLAN	FOTS BUILDING SITE WORK 1308 U AVENUE, BOONE		
SHEET 2 of 5				

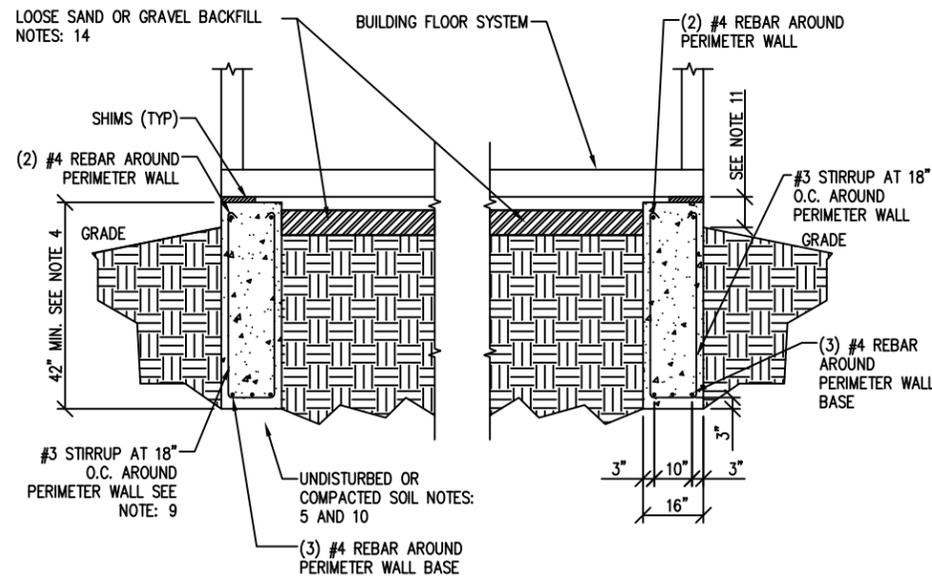
W:\OSP\OSP PROJECTS\BRODERICK\Boone County\SP125 Relocate To ISU Ag Farm\Boone Site Plan 2.dwg



NOTES

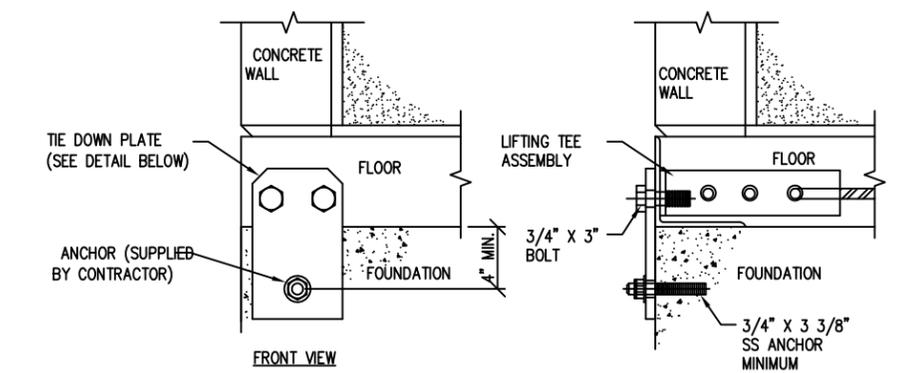
1. EMERGENCY BACK UP GENERATOR (BY OTHERS)
2. LP TANKS (BY OTHERS)
3. 6' HIGH CHAIN LINK FENCE TOPPED WITH 3 STRANDS OF BARBED WIRE. FENCING DIMENSIONS 55' x 30'. PLACE FENCE 1' INSIDE ROADSTONE PERIMETER ALL SIDES. INSTALL FENCE AFTER OWNER'S GENERATOR & LP TANKS HAVE BEEN SET. SEE SCOPE OF WORK FOR FENCE SPECIFICATIONS.
4. 12' WIDE FENCE OPENING WITH 18' CANTILEVER GATE. CENTER OPENING & GATE IN WEST FENCE LINE.
5. 12' x 20' CAST IN PLACE, REINFORCED CONCRETE FOUNDATION. (SEE PAGE 4) A MINIMUM OF 7 DAYS CURE TIME IS REQUIRED BEFORE PLACEMENT OF THE BUILDING.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CRANE SERVICE NEEDED TO OFF LOAD THE SITE DELIVERED PRE-FABRICATED BUILDING. (WGT. 55,000 LBS.) SEE RIGGING DETAILS, SHEET 5

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1	SITE PLAN	JUNE 2016	SCALE: 1" = 10'	SIZE: 11 x 17
			FOTS BUILDING SITE WORK 1308 U AVENUE, BOONE	
			SHEET 3 of 5	
<small>W:\OSP\OSP PROJECTS\BRODERICK\Boone County\SP125 Relocate To ISU Ag Farm\Boone Site Plan 2.dwg</small>				

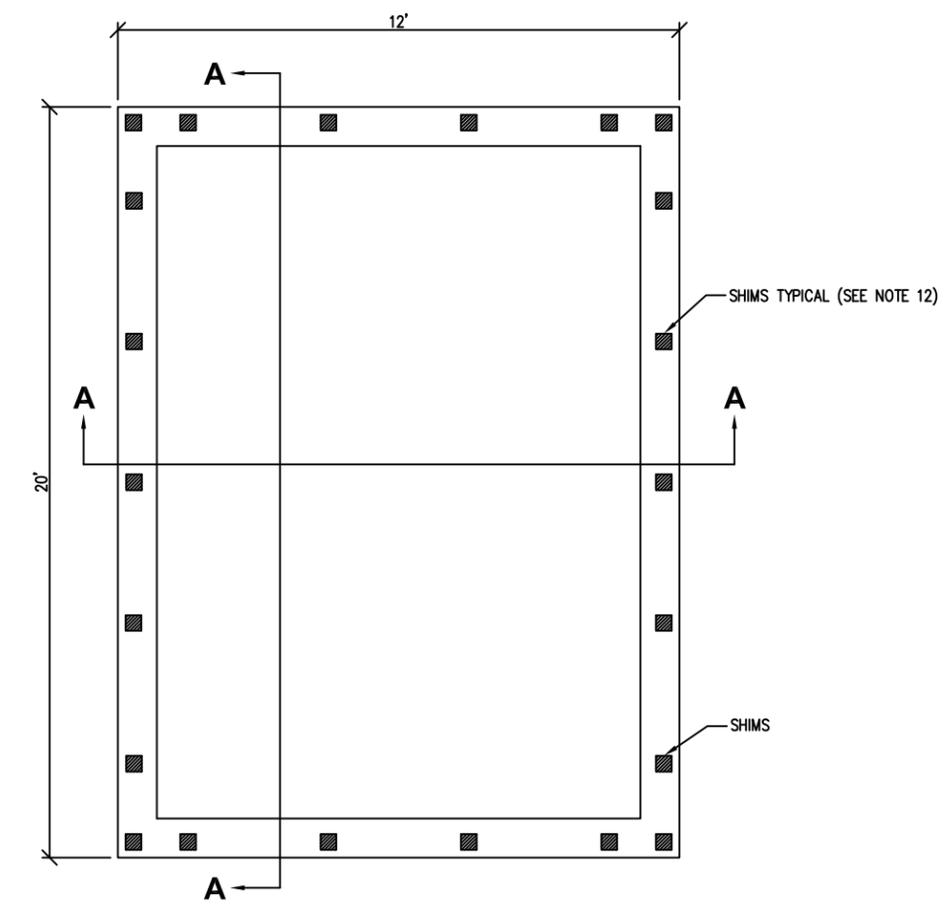


1 SECTION A-A
SCALE: NONE

TYPICAL EACH WAY SEE NOTES FOR SPECIFIC INFORMATION ON MATERIALS AND OTHER REQUIREMENTS



3 TIE DOWN DETAIL
SCALE: NONE



FOUNDATION PLAN
SCALE: NONE

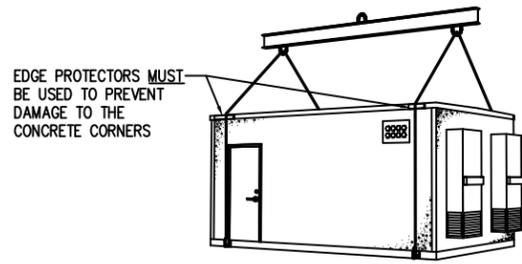
- FOUNDATION NOTES:**
1. ALL FOUNDATION WORK SUBJECT TO LOCAL INSPECTION AND APPROVAL.
 2. FOUNDATION SURFACE SHALL BE LEVEL TO WITHIN $\pm 1/8"$ PER 10 LINEAL FEET IN ANY DIRECTION.
 3. FOUNDATION SHALL BE SQUARE TO WITHIN $\pm 1/4"$.
 4. BASE FOUNDATION WALL FOOTING MUST BE ESTABLISHED A MIN. OF 6" BELOW FROST LINE AND ON UNDISTURBED SOIL.
 5. SOIL BEARING CAPACITY SHALL NOT BE LESS THAN 3000 PSF. CALL ALLENDER-BUTZKE ENGINEERS AT 515-252-1979 FOR TESTING AND CONFIRMATION. (PROVIDE 24HR NOTICE)
 6. CONCRETE COMPRESSIVE STRENGTH SHALL NOT BE LESS THAN 3000 PSI, @ 28 DAYS. REBAR CHECK AND CONCRETE TESTING TO BE PERFORMED BY ALLENDER-BUTZKE ENGINEERS. CALL 24 HOURS PRIOR TO FOUNDATION POUR TO COORDINATE TESTING.
 7. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, LATEST REVISION.
 8. CONCRETE MIX DESIGN, BATCHING AND CONSTRUCTION PRACTICES SHALL CONFORM TO ACI 318, ACI 305R, ACI 306R LATEST REVISIONS.
 9. DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL COMPLY WITH ACI 315, ACI 318, LATEST REVISIONS.
 10. COMPACTION REQUIREMENTS TO BE DETERMINED BY ENGINEERING ANALYSIS OF SITE SPECIFIC DATA.
 11. TIE DOWN PLATES, IF USED, MUST BE ENTIRELY ABOVE GRADE.
 12. SHELTER MUST BE SHIMMED AT LOW SPOTS OF FOUNDATION, BUILDING TO HAVE FULL BEARING ON FOUNDATION.
 13. PROVIDE PROPER DRAINAGE AWAY FROM FOUNDATION AT GRADE.
 14. BACKFILL DEPTH REQUIREMENTS TO BE DETERMINED BY ENGINEERING ANALYSIS OF SITE SPECIFIC DATA (4" MIN.).
 15. THE SERVICES OF THE GEOTECHNICAL ENGINEER SHALL BE PAID FOR BY THE OWNER.

FOUNDATION LOADS:

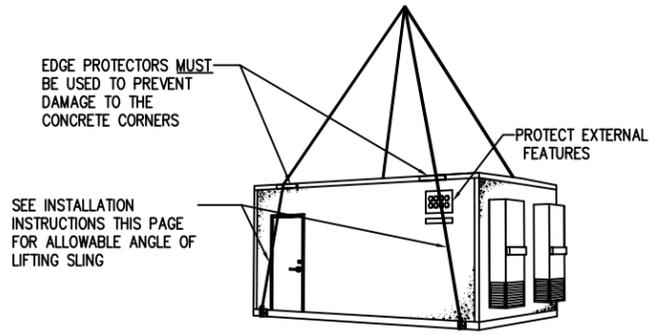
1. DEAD LOAD: 1375 PLF
2. LIVE LOAD: 2100 PLF

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1	SITE PLAN	JUNE 2016	SCALE: 1" = 10' SIZE: 11 x 17
			FOTS BUILDING SITE WORK 1308 U AVENUE, BOONE
			SHEET 4 of 5

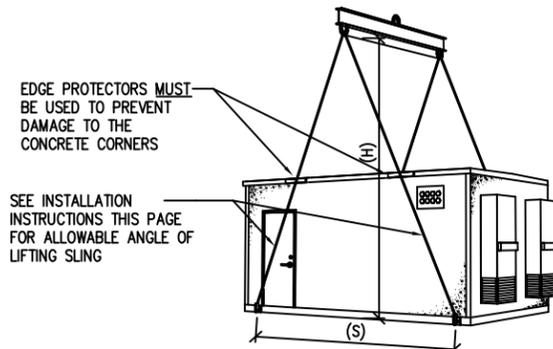
W:\OSP\OSP PROJECTS\BRODERICK\Boone County\SP125 Relocate To ISU Ag Farm\Boone Site Plan 2.dwg



(4) POINT OPTION 1 BUILDING LIFT (PREFERRED METHOD)
SLINGS VERTICAL



(4) POINT OPTION 3 BUILDING LIFT

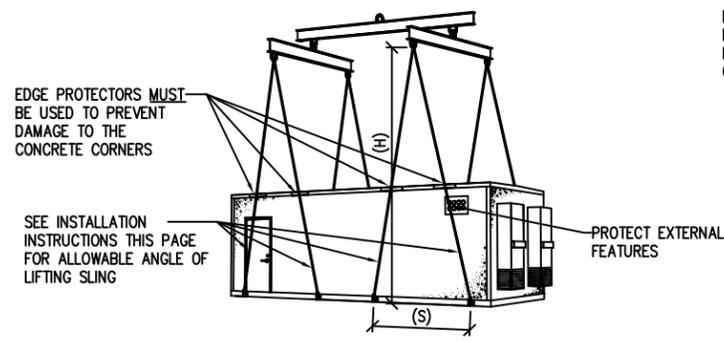


(4) POINT OPTION 2 BUILDING LIFT
SEE TABLE

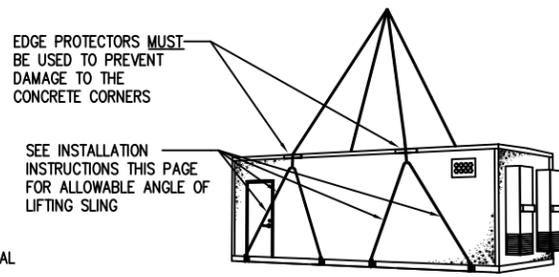
TABLE 1 (4) POINT LIFT OPTION 2

LIFT DEVICE SEPARATION (S)	MINIMUM HOOK HEIGHT (H)
10'-0"	13'-9"
11'-0"	15'-2"
12'-0"	16'-6"
13'-0"	17'-10"
14'-0"	19'-3"
15'-0"	20'-8"
16'-0"	22'-0"
17'-0"	23'-5"
18'-0"	24'-9"
19'-0"	26'-2"
20'-0"	27'-6"

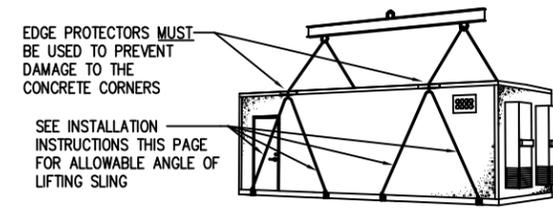
1 4 POINT LIFT OPTIONS
SCALE: NONE



(8) POINT OPTION 1 BUILDING LIFT (PREFERRED METHOD)



(8) POINT OPTION 3 BUILDING LIFT

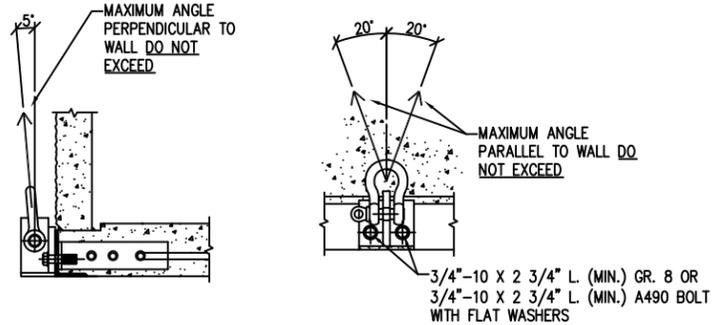


(8) POINT OPTION 2 BUILDING LIFT
SEE TABLE

TABLE 1 (8) POINT LIFT OPTION 1

LIFT DEVICE SEPARATION (S)	MINIMUM HOOK HEIGHT (H)
6'-0"	13'-9"
7'-0"	15'-2"
8'-0"	16'-6"
9'-0"	17'-10"
10'-0"	19'-3"
11'-0"	20'-8"
12'-0"	22'-0"

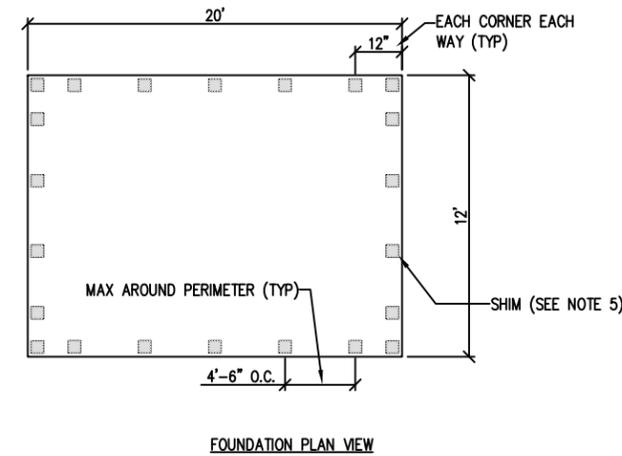
2 8 POINT LIFT OPTIONS
SCALE: NONE



BOLT INSTALLATION:

1. SNUG (NO PLAY) PLUS 1/8 TURN MAX.
2. DO NOT DRIVE WITH HIGH PRESSURE IMPACT WRENCH.

3 END INSTALLATION AND SLING LIMITS
SCALE: NONE



INSTALLATION NOTES:

1. ALL FOUNDATION WORK BY OTHERS AND SUBJECT TO LOCAL INSPECTION.
2. FOUNDATION SURFACE SHALL BE LEVEL TO WITHIN +/- 1/8" PER 10 LINEAL FEET IN ANY DIRECTION.
3. FOUNDATION SHALL BE SQUARE TO WITHIN +/- 1/4".
4. TIE DOWN PLATES, IF USED MUST BE ENTIRELY ABOVE GRADE.
5. SHELTER MUST BE SHIMMED TO LEVEL ABOVE IRREGULARITIES IN THE SLAB AND BUILDING FLOOR SYSTEM. SHIM HARDNESS NOT LESS THAN 60 DUROMETER. OR COMPRESSIVE STRENGTH 9,000 PSI MINIMUM. SHIMS NOT LESS THAN 3" SQUARE, THICKNESS AS REQUIRED.
6. INSPECT FOUNDATION FOR DEBRIS AND REMOVE BEFORE SETTING SHELTER.

SHELTER MUST BE SHIMMED

4 SHELTER SHIMMING
SCALE: NONE

RIGGING NOTES:

1. SHELTER MUST BE LIFTED ONLY AT POINTS PROVIDED, USING APPROPRIATE SPREADER BARS AND SLINGS, AND WITHIN THE LIMITS SHOWN ON THIS DRAWING.
2. UNLESS OTHERWISE APPROVED OR INDICATED, LIFT ONLY THE SHELTER SELF-WEIGHT. DO NOT LIFT THE SHELTER WITH ADDITIONAL EQUIPMENT INSIDE.
3. INSPECT EACH LIFT DEVICE FOR FOR CRACKS, WARPING OR OTHER DEFECTS BEFORE INSTALLING ON SHELTER. DO NOT USE A LIFTING DEVICE THAT HAS ANY CRACKS, QUESTIONABLE WELDS, IRREGULAR OR ELONGATED HOLES, OR IS BENT OUT OF SHAPE.
4. INSPECT BOLTS BEFORE INSTALLATION. DO NOT USE ANY BOLTS THAT HAVE DAMAGED THREADS, ARE BENT, APPEAR ELONGATED OR ARE MALFORMED IN ANY WAY.
5. DO NOT ROUTE SLING NEAR HVAC SYSTEMS
6. REMOVE OR PROTECT DOOR HARDWARE AND OTHER PROTRUSIONS FROM DAMAGE.
7. RIGGER IS TO PROVIDE ALL EQUIPMENT ABOVE THE THERMOBOND EXTERIOR LIFTING DEVICE. THE RIGGER IS RESPONSIBLE FOR ENSURING THAT THE SAFETY REQUIREMENTS LISTED HEREIN ARE MET.
8. RIGGING SHALL CONFORM TO APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS.
9. IF SHELTER IS DELIVERED WITH TEMPORARY SHIPPING WALLS OR ANY OTHER TEMPORARY STRUCTURE INSTALLED FOR TRANSPORT, DO NOT REMOVE BEFORE SHELTER PLACEMENT.
10. DO NOT USE SINGLE HOLE POSITIONS FOR LIFTING.
11. DO NOT SET THE SHELTER ON AN UNEVEN OR UNSTABLE SURFACE.

IOWA COMMUNICATIONS NETWORK

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1	SITE PLAN	JUNE 2016	SCALE: 1" = 10'	SIZE: 11 x 17
FOTS BUILDING SITE WORK 1308 U AVENUE, BOONE				
SHEET 5 of 5				