

ABBREVIATIONS

ADJ	ADJUSTABLE	SF	SQUARE FOOT
APPROX	APPROXIMATE	SHT	SHEET
CAB	CABINET	SIM	SIMILAR
CLG	CEILING	SS	STAINLESS STEEL
CONC	CONCRETE	STL	STEEL
CONT	CONTINUOUS	TOC	TOP OF CONCRETE
CJ	CONSTRUCTION JOINT	TOM	TOP OF MASONRY
DIA	DIAMETER	TYP	TYPICAL
DWG	DRAWING	VIF	VERIFY IN FIELD
EGB	EQUIPMENT GROUND BAR	UON	UNLESS OTHERWISE NOTED
EA	EACH	WWF	WELDED WIRE FABRIC
ELEC	ELECTRICAL	W	WITH
EL	ELEVATION	BTS	BASE TRANSMISSION STATION
EQ	EQUAL	PCS	PERSONAL COMMUNICATIONS SERVICES
EQUIP	EQUIPMENT	A-I	ANTENNA MARK NO.
EXT	EXTERIOR	CL	CENTERLINE
FF	FINISHED FLOOR	P	PLATE
GA	GAUGE	&	AND
GALV	GALVANIZED	@	AT
GC	GENERAL CONTRACTOR		
GRND	GROUND		
LG	LONG		
MAX	MAXIMUM		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MGB	MASTER GROUND BAR		
MIN	MINIMUM		
MTL	METAL		
NIC	NOT IN CONTRACT		
NTS	NOT TO SCALE		
OC	ON CENTER		
OPP	OPPOSITE		

SYMBOLS AND MATERIALS

	NEW ANTENNA		GROUT OR PLASTER
	EXISTING ANTENNAS		BRICK
	ASPHALT		MASONRY
	CONCRETE		CONCRETE
	ELECTRIC BOX		EARTH
	LIGHT POLE		GRAVEL
	FND. MONUMENT		PLYWOOD
	SPOT ELEVATION		SAND
	SET POINT		WOOD CONT.
	REVISION		WOOD BLOCKING
	GRID REFERENCE		STEEL
	DETAIL REFERENCE		CENTER LINE
	ELEVATION		PROPERTY LINE
	SECTIONS & DETAILS		STEPPED FOOTING
			MATCH LINE
			WORK POINT
			COAXIAL CABLE

CONTRACTOR SHALL REFER TO PRIMECO'S DETAILED SPECIFICATIONS FOR CELL SITES FOR ANY ITEMS OR WORK NOT LISTED OR DETAILED HEREON. STANDARD SPECIFICATIONS SHALL SUPERCEDE WHERE CONFLICTS OCCUR.

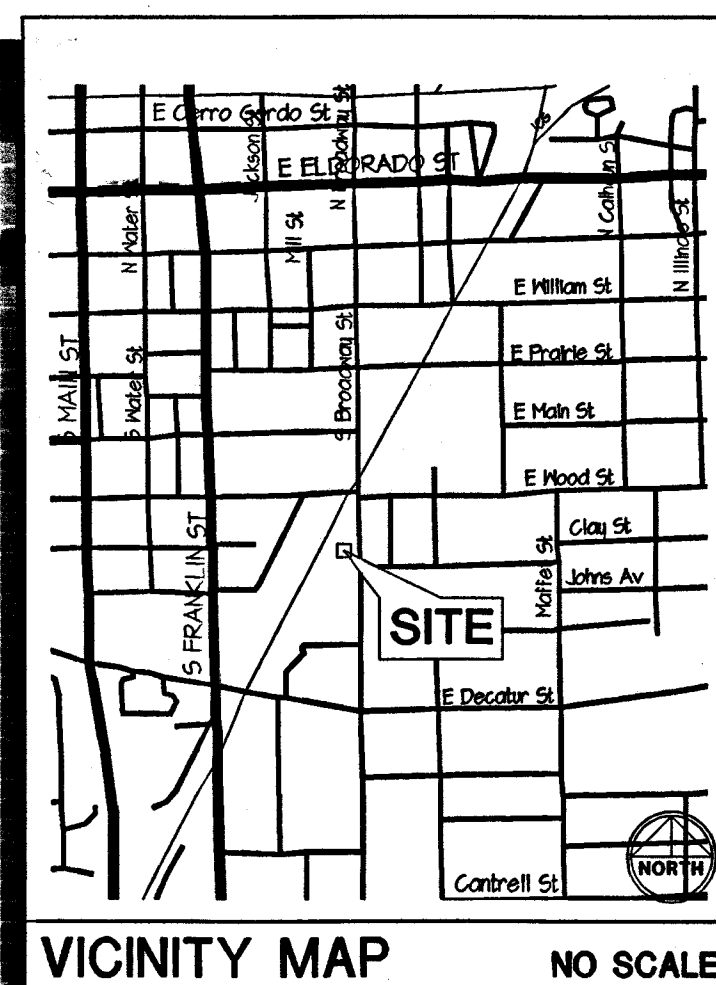


SOUTH CENTRAL DECATUR

CLARKSON GRAIN COMPANY
S. BROADWAY, DECATUR, IL 62521

GGB 3614-7

PROPOSED COMMUNICATION SITE WITH 150' MONOPOLE AND 8'x12' EQUIPMENT SHELTER



DRIVING DIRECTIONS

FROM PRIMECO OFFICES IN ITASCA:

INTERSECTION OF 72 WEST AND 51 SOUTH. GO SOUTH ON 51 APPROXIMATELY 5 MILES TO WOOD ROAD. GO EAST ON WOOD APPROXIMATELY 0.3 MILE TO MARTIN LUTHER KING JR. DR. GO SOUTH ON MARTIN LUTHER KING JR. DR. APPROXIMATELY 200' TO SITE. THE SITE IS LOCATED ON THE WEST SIDE OF THE STREET BETWEEN GRAIN ELEVATOR AND RADIATOR SHOP.

SITE NUMBER: GGB 3614-7
SITE NAME: SOUTH/CENTRAL DECATUR
SITE ADDRESS: CLARKSON GRAIN COMPANY
SOUTH BROADWAY
DECATUR, IL 62521
PROPERTY OWNER: CLARKSON GRAIN COMPANY
LOT NUMBER: 19 IN A.G. WEBBER'S SUBDIVISION
BLOCK NUMBER: N/A
APPLICANT: PRIMECO PERSONAL COMMUNICATIONS, L.P.
ONE PIERCE PLACE, SUITE 1100
ITASCA, ILLINOIS 60143
CONTACT PERSON: JOE PECKENS
CONTACT PHONE NO.: (630) 773-1600
ASSESSOR'S
PARCEL NO.: 04-12-14-307-017

PROJECT SUMMARY

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	
LS-1	SITE SURVEY	
Z-1	SITE PLAN	
Z-2	ELEVATIONS	
A-1	SITE PLAN, AND PROJECT NOTES	
A-2	ANTENNA LOCATION PLAN, SECTIONS AND ELEVATIONS	
A-3	SECTIONS	
S-1	SCREW ANCHOR FOUNDATION SECTIONS, AND DETAILS	
E-1	ELECTRICAL PLAN, RISER, NOTES, DETAILS	
E-2	GROUNDING RISER AND DETAILS	
E-3	ELEVATIONS, AND ANTENNA SCHEDULE	

SHEET INDEX

PROFESSIONAL ENGINEER



LICENSED PROFESSIONAL ENGINEER - STATE OF ILLINOIS

SCOTT R. TRIPPAHN
EXPIRES: 11/30/97 SIGNED: / /



APPROVALS

PRIMECO _____
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
BSIE _____

PROJECT NO: T97170

DRAWN BY: CDG

CHECKED BY: KMM

2	8-12-97	PER REVISED
1	6-24-97	FOR CONSTRUCTION



GGB 3614-7
SOUTH/CENTRAL
DECATUR

CLARKSON GRAIN COMPANY
SOUTH BROADWAY
DECATUR, IL

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1
EXHIBIT A

PROPERTY DESCRIPTION FOR PRIMECO LEASE AREA

SAID PART OF SAID LOT 19, NAMED SAID DIVISION BEING A SUBDIVISION OF THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 16, TOWNSHIP 16 NORTH, RANGE 2 EAST OF THE THIRD PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHWEST CORNER OF SAID LOT 19; THENCE SOUTH 40 DEGREES 00 MINUTES 00 SECONDS EAST (ASSUMED BEARING) ALONG THE NORTH LINE OF SAID LOT 19, 17.07 FEET TO A ONE INCH DIAMETER IRON PIPE WITH A YELLOW CAP, BEING THE POINT OF BEGINNING; THENCE SOUTH 66 DEGREES 24 MINUTES 53 SECONDS EAST, 30.00 FEET TO A ONE INCH DIAMETER IRON PIPE; THENCE SOUTH 23 DEGREES 30 MINUTES 07 SECONDS WEST, 30.00 FEET TO A ONE INCH DIAMETER IRON PIPE; THENCE NORTH 66 DEGREES 24 MINUTES 53 SECONDS WEST, 30.00 FEET TO A ONE INCH DIAMETER IRON PIPE; THENCE NORTH 23 DEGREES 30 MINUTES 07 SECONDS EAST, 30.00 FEET TO A ONE INCH DIAMETER IRON PIPE, BEING THE POINT OF BEGINNING, CONTAINING 400.00 SQUARE FEET, IN MACON COUNTY, ILLINOIS.

PROPERTY DESCRIPTION FOR PRIMECO UTILITY & ACCESS EASEMENT
THAT PART OF LOT 14 IN A.G. WEBBERS SUBDIVISION BEING A SUBDIVISION OF THE WEST
HALF OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 16 NORTH, RANGE 2 EAST OF
THE THIRD PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT
THE NORTHWEST CORNER OF SAID LOT 14; THENCE SOUTH 40 DEGREES 00 MINUTES 00
SECONDS EAST (ASSUMED BEARING) ALONG THE NORTH LINE OF SAID LOT 14, 17.07 FEET TO
A ONE INCH DIAMETER IRON PIPE WITH A YELLOW CAP; THENCE SOUTH 66 DEGREES 24
MINUTES 53 SECONDS EAST, 30.00 FEET TO A ONE INCH DIAMETER IRON PIPE; THENCE SOUTH
23 DEGREES 30 MINUTES 07 SECONDS WEST, 1.50 FEET TO THE POINT OF BEGINNING; THENCE
SOUTH 45 DEGREES 00 SECONDS WEST, 30 MINUTES 07 SECONDS WEST, 15.00 FEET; THENCE SOUTH
66 DEGREES 24 MINUTES 53 SECONDS EAST, 30 MINUTES 07 SECONDS EAST, 31.2
MINUTES 00 SECONDS EAST, 63.04 FEET TO THE EAST LINE OF LOT 14; THENCE NORTH ALONG
SAID EAST LINE, 15.00 FEET; THENCE SOUTH 40 DEGREES 00 MINUTES 00 SECONDS WEST,
54.97 FEET TO THE POINT OF BEGINNING, CONTAINING 446.37 SQUARE FEET, IN MACON
COUNTY, ILLINOIS.

⊕ BENCHMARK=NAIL IN UTILITY POLE LOCATED 75 FEET SOUTHWEST
OF PRIMECO LEASE AREA. ELEV=101.42 FEET
(ASSUMED DATUM)

SURVEY PREPARED WITH THE AID OF A COMMITMENT
FOR TITLE INSURANCE PREPARED BY CHICAGO TITLE
INSURANCE COMPANY ORDER NO. 76886
EFFECTIVE MAY 9, 1997

P.I.N. NO. 04-12-14-307-017

LATITUDE: 39°50'21.42" (NAD83) LONGITUDE: 088°57'00.24" (NAD83)

NOTE: THE LOCATION OF UNDERGROUND UTILITIES
WAS DETERMINED BY FIELD OBSERVATION
& VISIBLE MARKINGS ONLY.
CALL J.U.L.I.E. BEFORE YOU DIG.



LOCATION MAP

LEGEND	
-----	LEASE AREA LINE
-----	PROPERTY LINE
- . - . -	CENTER LINE
- - - - -	EASEMENT LINE
=====	BUILDING SETBACK
(M)	MEASURES DATA
(R)	RECORD DATA
(D)	DEED DATA
○	CLOSED MANHOLE
○	OPEN GRATE MANHOLE
○	GUTTER FRAME
○	FIRE HYDRANT
+	STREET LIGHT
+	TRAFFIC SIGNAL
TOP OF MANHOLE, STREET SPOT GRADE BOTTOM OF MANHOLE, INTERSECTION	
~	UTILITY ROLE
*	GUY WIRE ANCHOR
→	STORM SEWER
→	SANITARY SEWER
→	WATER / GAS / ELECTRIC
=====	FENCE LINE

W-T LAND SURVEYING, INC.
LAND AND CONSTRUCTION SURVEYORS

* WE, N-T LAND SURVEYING, INC. HEREBY CERTIFY THAT WE ARE ILLINOIS REGISTERED LAND SURVEYORS IN COMPLIANCE WITH THE LAWS OF THE STATE OF ILLINOIS AND THAT THIS PLAT CORRECTLY REPRESENTS A SURVEY COMPLETED BY US ON THIS 23rd DAY OF JUNE A.D. 1997 AND THAT THE INFORMATION SHOWN THEREON ACTUALLY EXIST AND MATERIALS ARE ACCURATELY SHOWN.

GIVEN UNDER OUR HAND AND SEAL THIS 23rd DAY OF JUNE A.D. 1997

GIVEN UNDER OUR HAND AND SEAL THIS 23rd DAY OF JUNE A.D. 1997



SCALE: 1"=30'



PRIMECo™
PERSONAL COMMUNICATIONS

ONE PIERCE PLACE
SUITE 1100
ITASCA, ILLINOIS 60143
OFFICE: (630) 773-1600
FAX: (630) 285-1580

APPROVALS

PRIMECO _____

LANDLORD _____**LEASING** _____

R.F. _____

ZONING_____**CONSTRUCTION**_____

BSIE _____

PROJECT NO: T97170

DRAWN BY: CDG

CHECKED BY: KMM

W-T LAND SURVEYING, INC.
LAND AND CONSTRUCTION SURVEYORS
39 EAST SCULLY DRIVE
SCHAUMBURG, ILLINOIS 60193
ph. (847) 895-3640
fax. (847) 895-9985

**CGB 3614-7
SOUTH/CENTRAL
DECATUR**

CLARKSON GRAIN COMPANY
SOUTH BROADWAY
DECATUR
ILLINOIS

SHEET TITLE

LAND SURVEY

SHEET NUMBER

LS-1

1. MONOPOLE PLATFORM AND ANTENNA DESIGNED TO MEET BOCA NATIONAL BUILDING CODE/1993, LOCAL BUILDING CODES, AND ANSI/EIA/TIA-222-E STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES. THE DESIGN WIND SPEED IS 80 MPH PLUS 1/2" ICE.
2. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
3. EXISTING VEGETATION WILL BE REMOVED INSIDE LEASED AREA AND ACCESS DRIVE.
4. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATION (LATEST EDITION).
5. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH ACI 318 AND ACI 301.
6. FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (HANDICAPPED ACCESS NOT REQUIRED).
7. FACILITY WILL NOT BE LIGHTED WITH THE EXCEPTION OF EMERGENCY CONDITIONS.
8. FACILITY HAS NO PLUMBING.
9. FACILITY WILL BE INDEPENDENTLY POWERED WITH SEPARATE METER.
10. MONOPOLE PLATFORM AND ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES, AND SUPPORT STRUCTURES.



SCALE: 1" = 30'-0"

7-

⊕ BENCHMARK=NAIL IN UTILITY POLE LOCATED 75 FEET SOUTHWEST
OF PRIMECO LEASE AREA. ELEV=101.42 FEET
(ASSUMED DATUM)



**ONE PIERCE PLACE
SUITE 1100
ITASCA, ILLINOIS 60143
OFFICE: (630) 773-1600
FAX: (630) 285-1580**

APPROVALS

PRIMECO _____**LANDLORD** _____**LEASING** _____

R.F. _____

ZONING _____**CONSTRUCTION**_____

BSIE _____

PROJECT NO:	T9717
-------------	-------

DRAWN BY: CD

CHECKED BY: KM

2	8-12-97	PER REVISED
1	6-24-97	FOR CONSTRUCTION



W-T ENGINEERING, INC.
CONSULTING ENGINEERS
39 EAST SCULLY DRIVE
SCHAUMBURG, ILLINOIS 60193
ph. (847) 895-3640
fax. (847) 895-9985

**CGB 3614-7
SOUTH/CENTRAL
DECATUR**

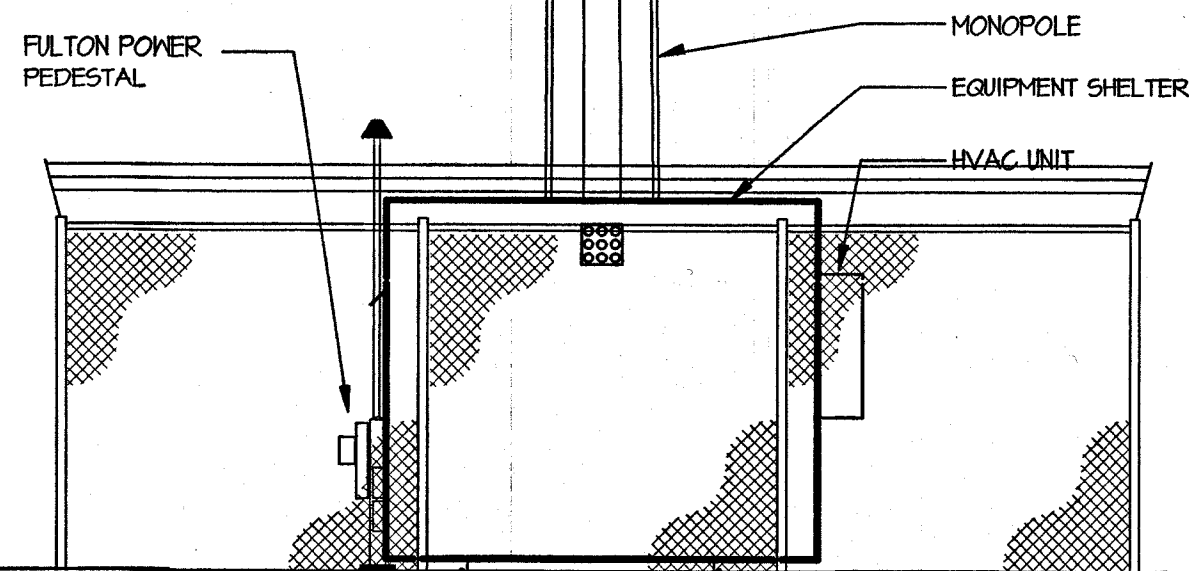
CLARKSON GRAIN COMPANY
SOUTH BROADWAY
DECATUR, IL

SHEET TITLE

SITE PLAN

SHEET NUMBER

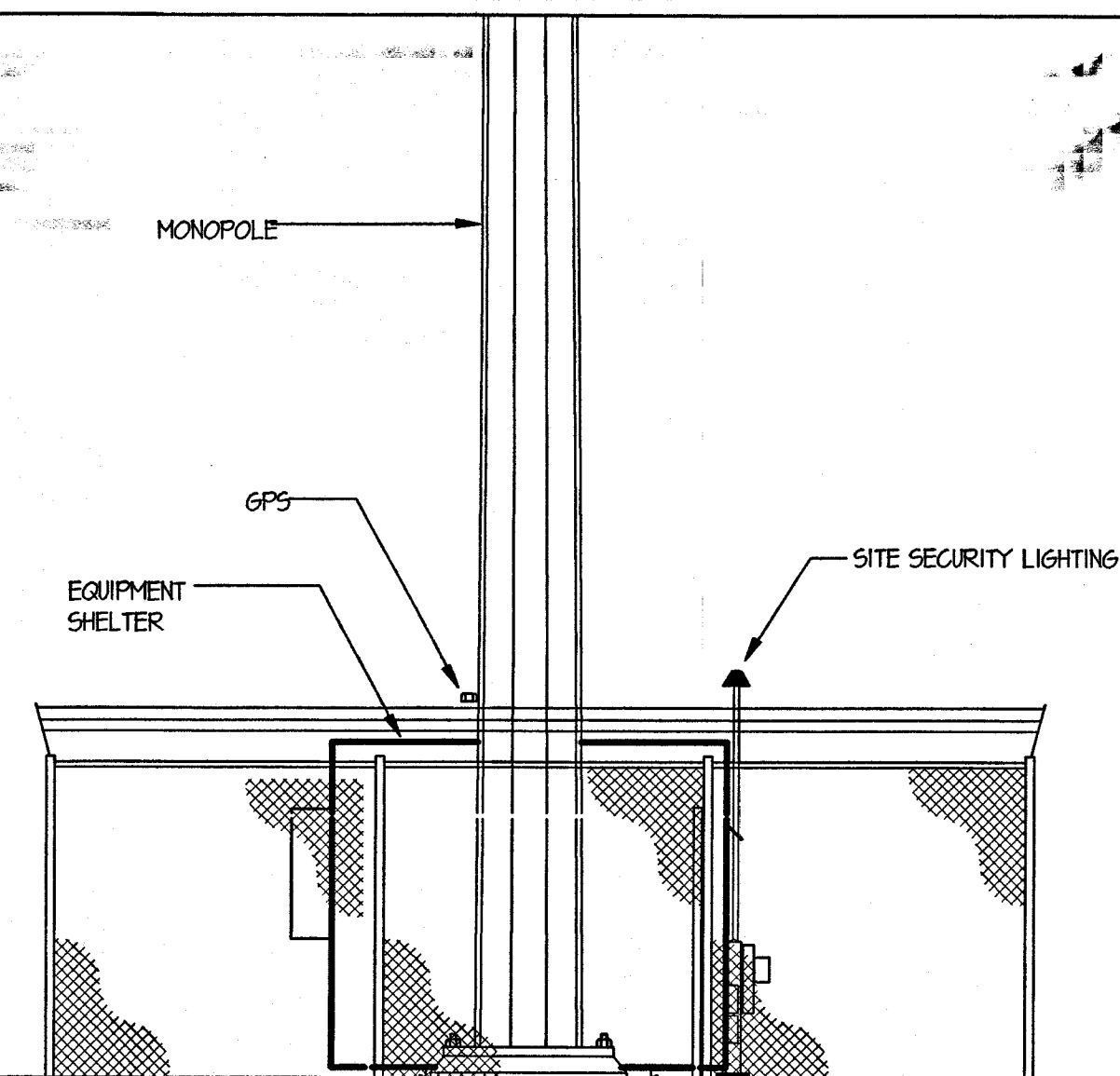
Z-1



NORTHEAST ELEVATION

SCALE: 3/16" = 1'-0"

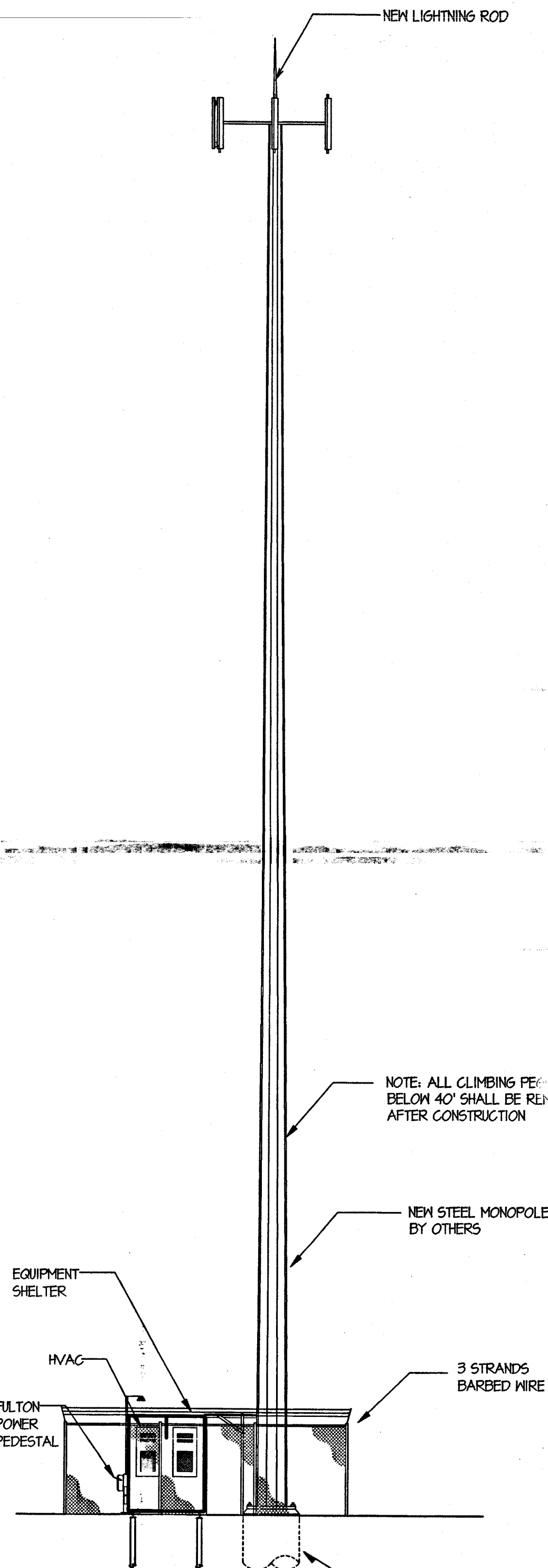
1
Z-2



SOUTHWEST ELEVATION

SCALE: 3/16" = 1'-0"

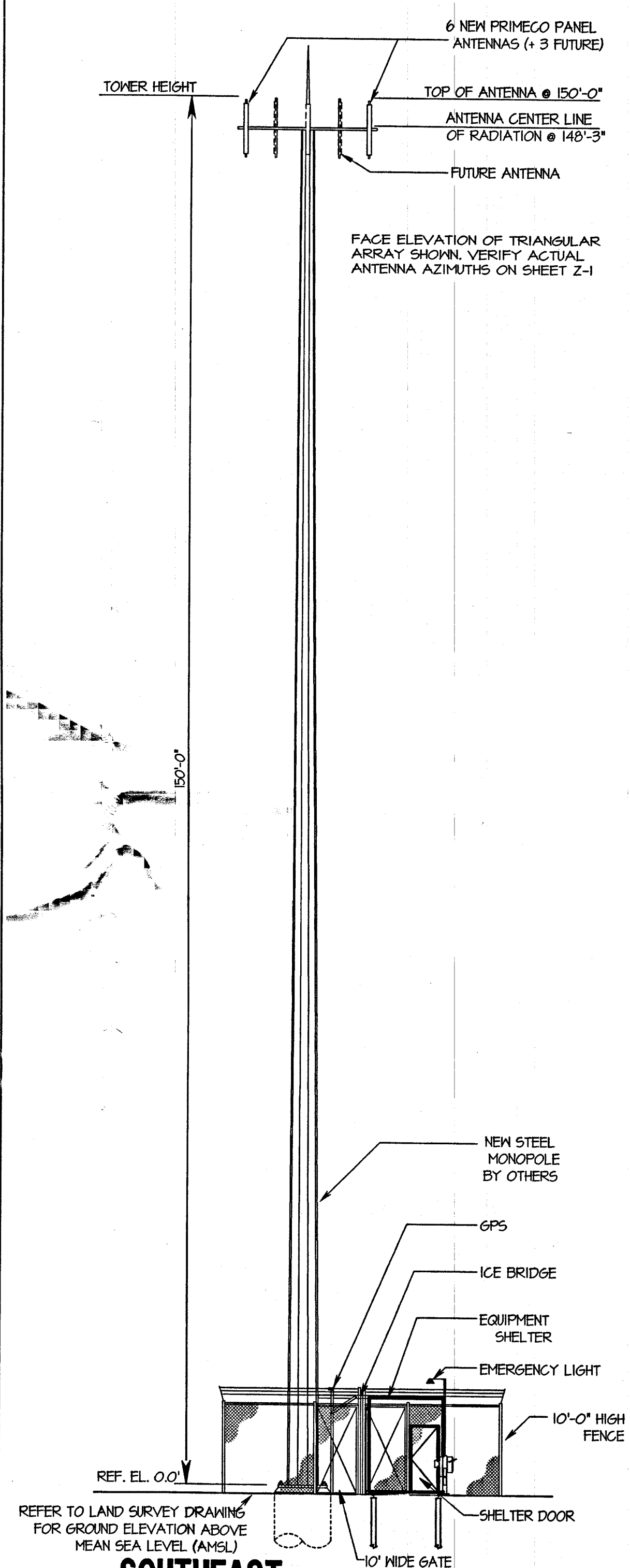
2
Z-2



NORTHWEST ELEVATION

SCALE: 3/32" = 1'-0"

3
Z-2



SOUTHEAST ELEVATION

SCALE: 3/32" = 1'-0"

4
Z-2



PRIMECO
PERSONAL COMMUNICATIONS

ONE PIERCE PLACE
SUITE 1100
ITASCA, ILLINOIS 60143
OFFICE: (630) 773-1600
FAX: (630) 285-1580

APPROVALS

PRIMECO _____
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
BSIE _____

PROJECT NO. T97170

DRAWN BY: CDG

CHECKED BY: KMM

2	8-12-97	PER REVISED
1	8-24-97	FOR CONSTRUCTION



W-T ENGINEERING, INC.
CONSULTING ENGINEERS
39 EAST SCULLY DRIVE
SCHAUMBURG, ILLINOIS 60193
ph. (847) 895-3640
fax. (847) 895-9985

**CGB 3614-7
SOUTH/CENTRAL
DECATUR**

CLARKSON GRAIN COMPANY
SOUTH BROADWAY
DECATUR, IL

SHEET TITLE

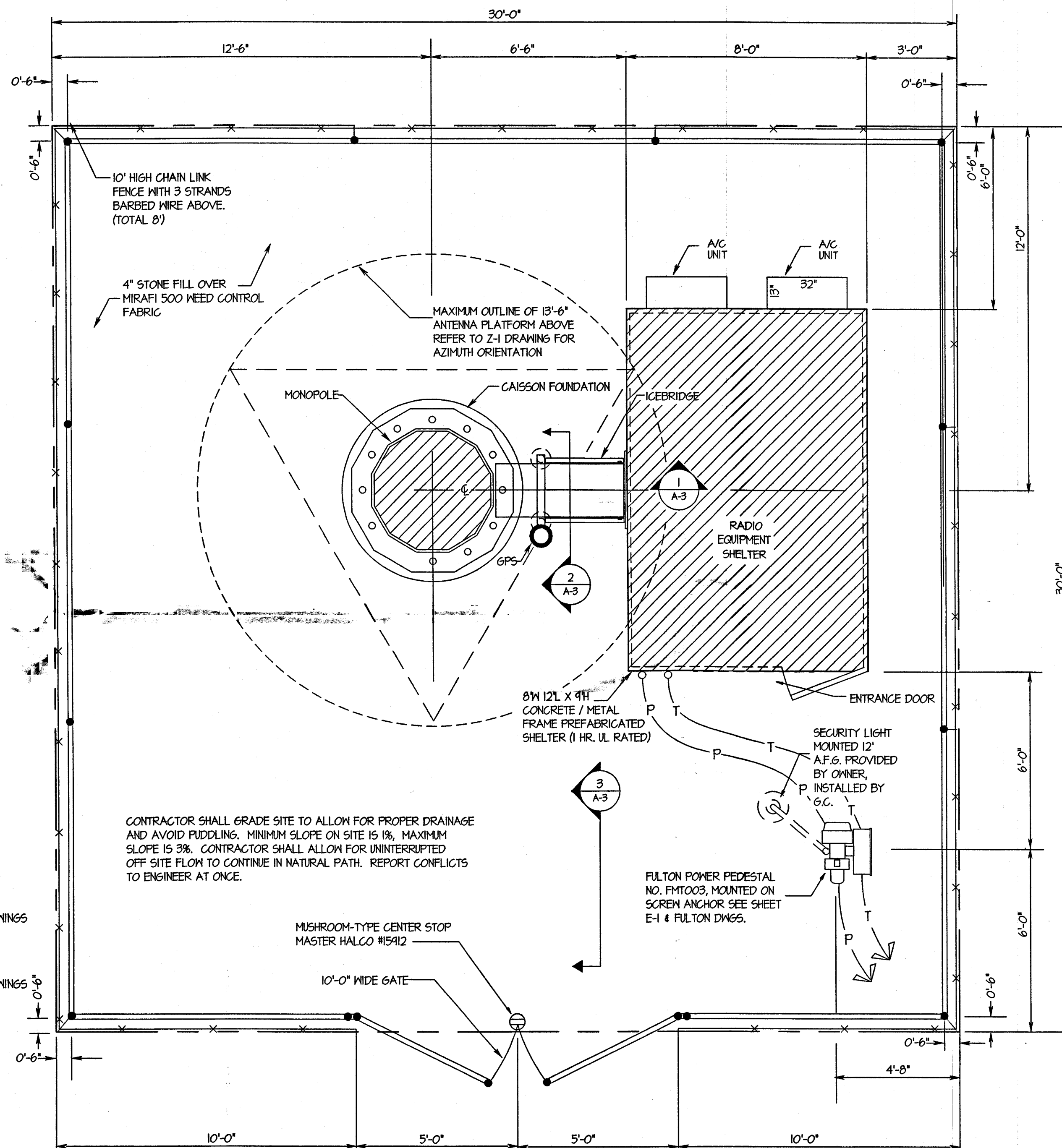
ELEVATIONS

SHEET NUMBER

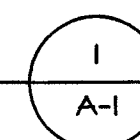
Z-2

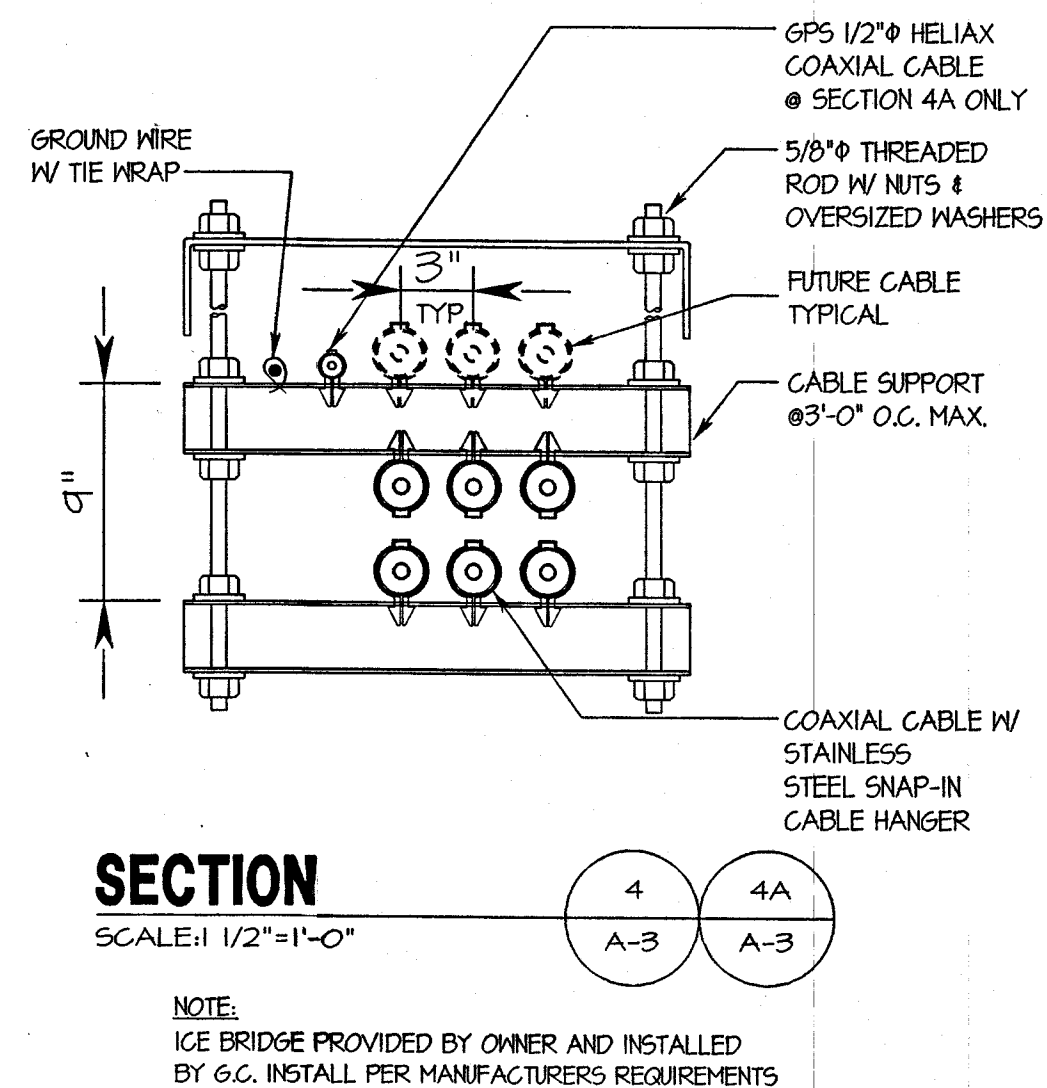
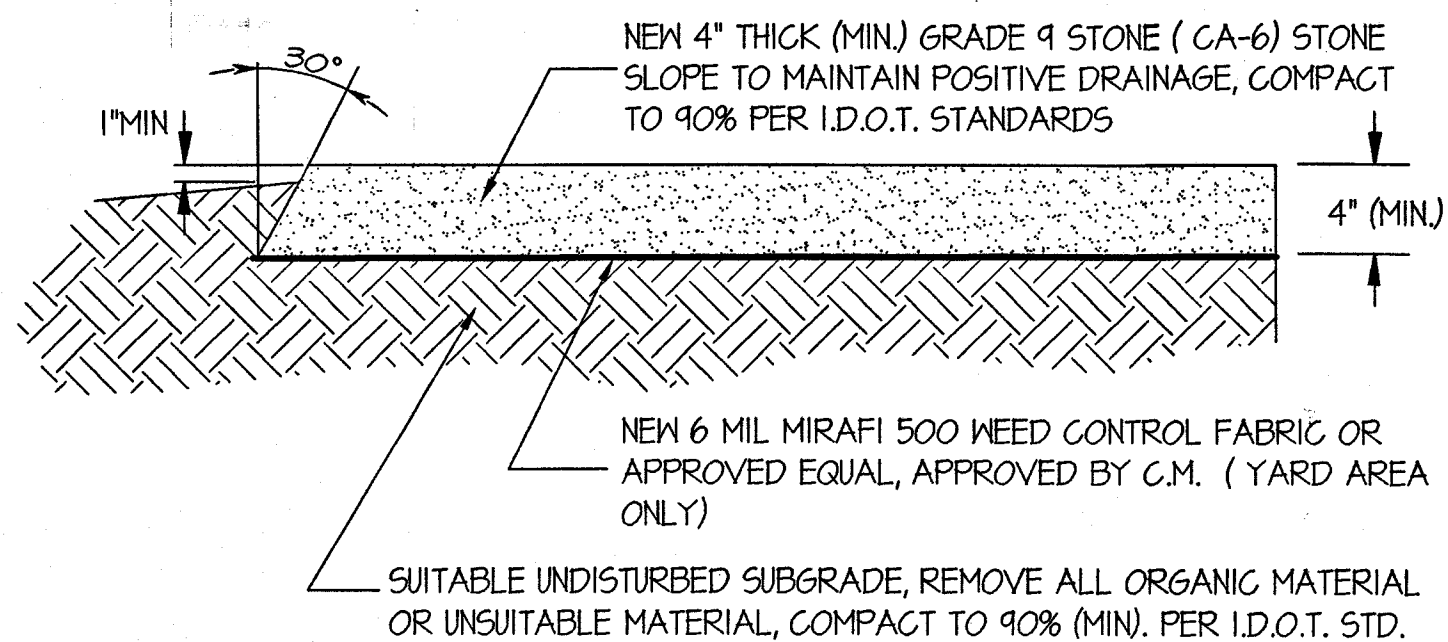
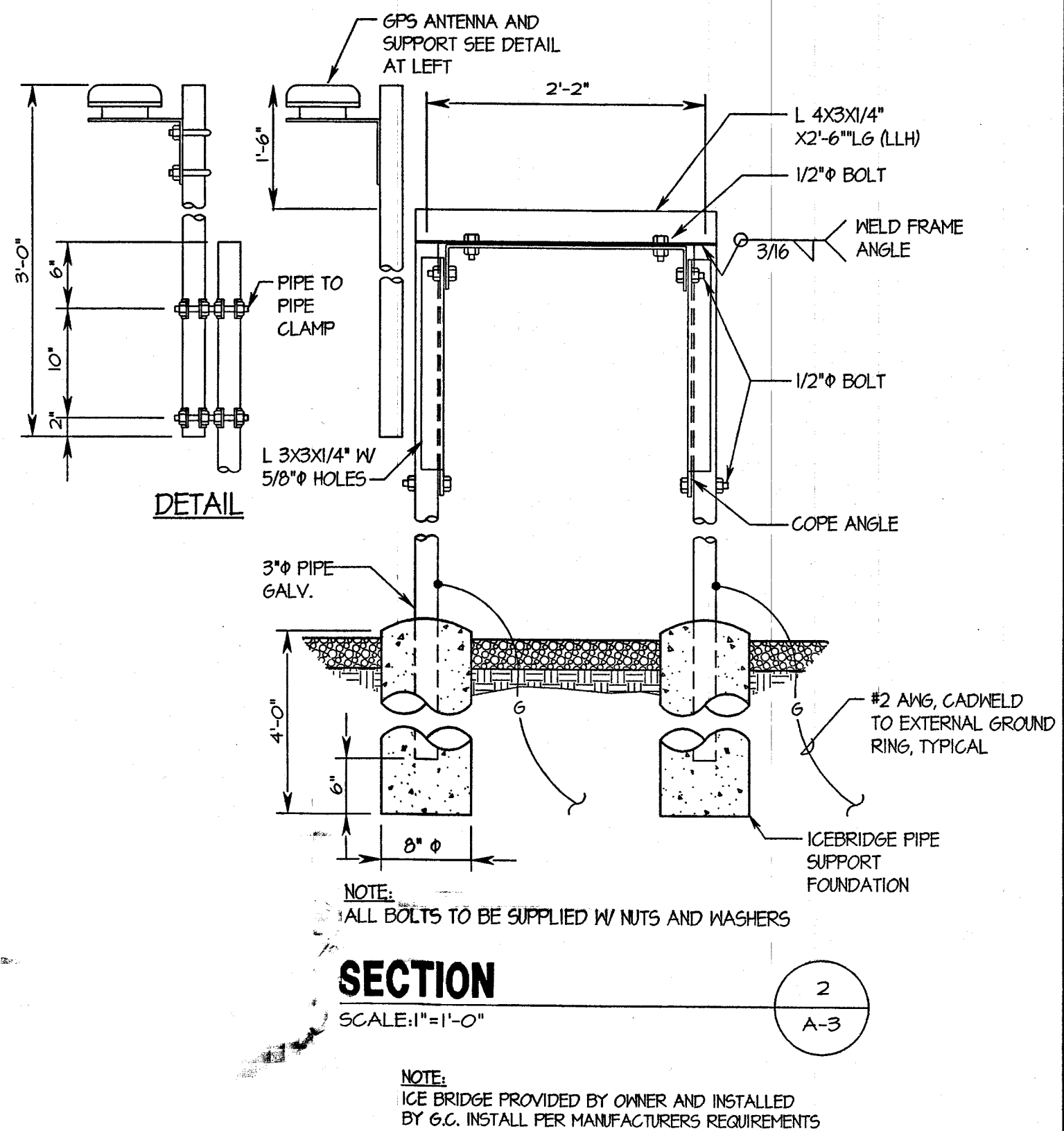
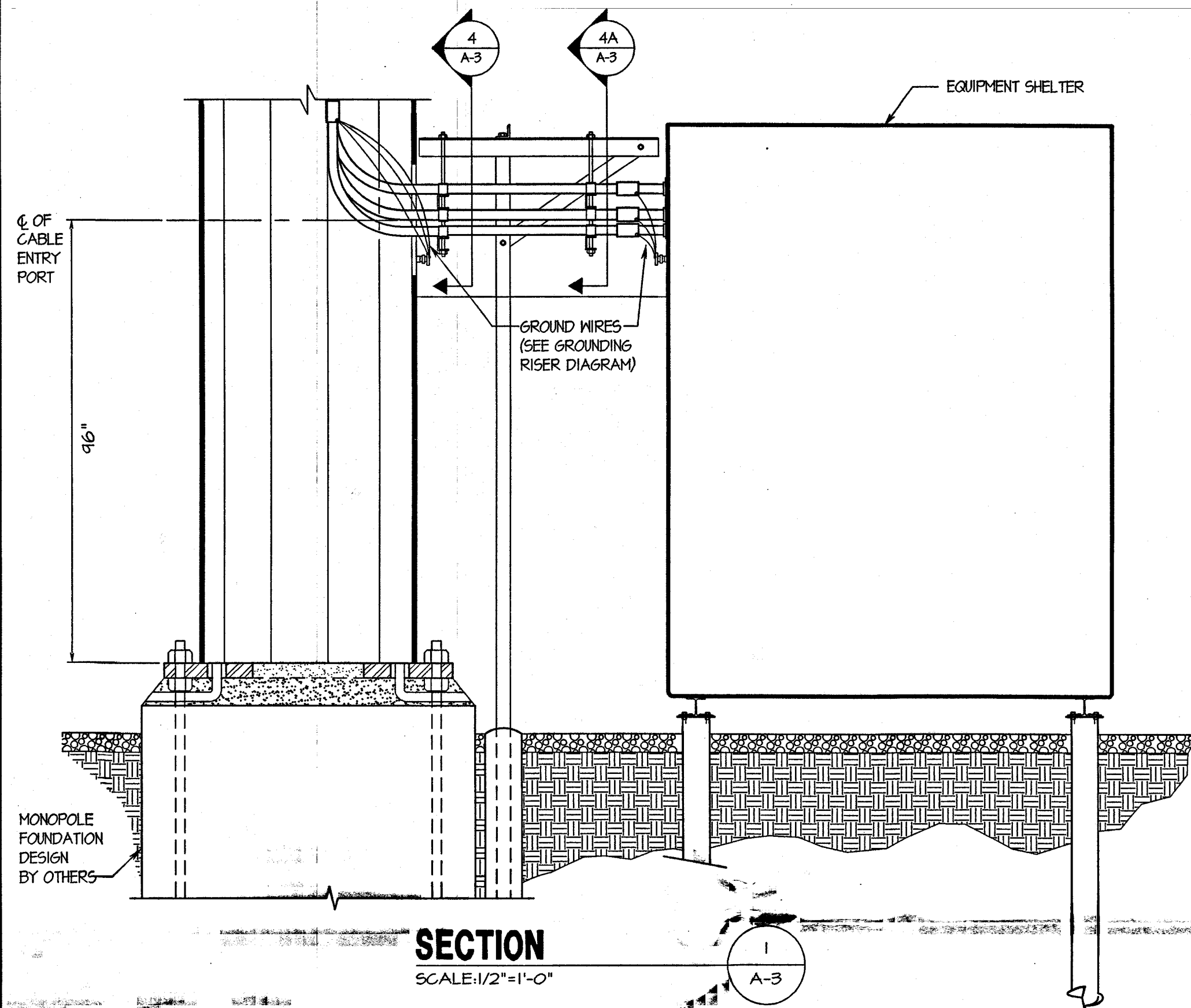
1. THE GENERAL CONTRACTOR AND OR HIS SUBCONSULTANT SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
2. REFER TO THE SITE PLAN PREPARED BY OTHERS FOR BOUNDARY SURVEY AND SITE TOPOGRAPHY.
3. DESIGN REQUIREMENTS FOR THE ANTENNA SUPPORTING STRUCTURE ARE PER BOCA NATIONAL BUILDING CODE/1993, LOCAL BUILDING CODES, AND THE EIA/ TIA-222-E STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES. THE BASIC WIND SPEED UTILIZED FOR DESIGN IS 80 MPH PLUS 1/2" ICE.
4. CONCRETE FOR FENCE POST AND ICEBRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
5. FENCED SITE AREA SHALL BE CLEARED AND GRUBBED. REMOVE UNSUITABLE SOFT OR LOOSE SOILS, ORGANIC MATERIAL AND OR RUBBLE TO FIRM SUBGRADE AS APPROVED BY GEOTECHNICAL REPORT. PLACE A MIRAFI 500X SHEET ON SUBGRADE AND FILL WITH 4 INCHES OF AASHTO 51 STONE TO FINISH GRADE.
6. STRUCTURAL STEEL SHALL CONFORM TO LATEST EDITION OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS- ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE CODE OF STANDARD PRACTICE.
7. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A36. ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
8. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D1.1-92 STRUCTURAL WELDING CODE- STEEL WELD ELECTRONICS SHALL BE E70XX.
9. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLIES SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MINIMUM DIAMETER BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE. ALL EXPOSED FASTENERS, NUTS AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHERWISE NOTED.
10. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES.
11. STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS, AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 4'-0" LEAFs. REFER TO TYPICAL FENCE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.
12. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY TRUE NORTH AND INFORM CONSTRUCTION MANAGER OF ANY DISCREPANCIES BEFORE STARTING CONSTRUCTION.

MONOPOLE / TOWER FOUNDATION DESIGN IS UNDER SEPERATE CONTRACT BY OTHERS
AND IS EXCLUDED FROM THESE DESIGN DRAWINGS, REFER TO OWNER PROVIDED DRAWINGS
FOR SPECIFIC DETAILS REGARDING FOUNDATION SYSTEM.



SCALE: $3/8" = 1' - 0"$





PRIMECO
PERSONAL COMMUNICATIONS
ONE PIERCE PLACE
SUITE 1100
ITASCA, ILLINOIS 60143
OFFICE: (630) 773-1600
FAX: (630) 285-1580

APPROVALS

PRIMECO _____
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
BSIE _____

PROJECT NO. T97170

DRAWN BY: CDG

CHECKED BY: KMM

1	6-24-97	FOR CONSTRUCTION
---	---------	------------------

W-T
W-T ENGINEERING, INC.
CONSULTING ENGINEERS
39 EAST SCULLY DRIVE
SCHAUMBURG, ILLINOIS 60193
ph. (847) 895-3640
fax. (847) 895-9985

CGB 3614-7
SOUTH/CENTRAL
DECATUR
CLARKSON GRAIN COMPANY
SOUTH BROADWAY
DECATUR, IL

SHEET TITLE
SECTIONS

SHEET NUMBER
A-3



SCALE: 1/4" = 1'-0"



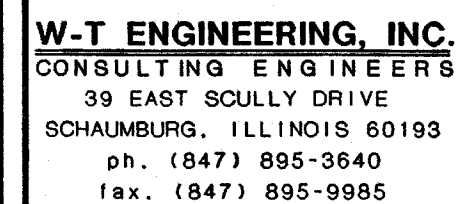
SCALE: 3/4" = 1'-0"



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

1. FOUNDATION SHOWN IS FOR REFERENCE ONLY
REFER TO STRUCTURAL DRAWING PROVIDED UNDER SEPERATE
COVER BY OTHERS.

2. EXACT FOUNDATION SPECIFICATION AND ANCHOR BOLT LAYOUT SHALL BE COORDINATED WITH SHELTER MANUFACTURER.



CGB 3614-7
SOUTH/CENTRAL
DECATUR

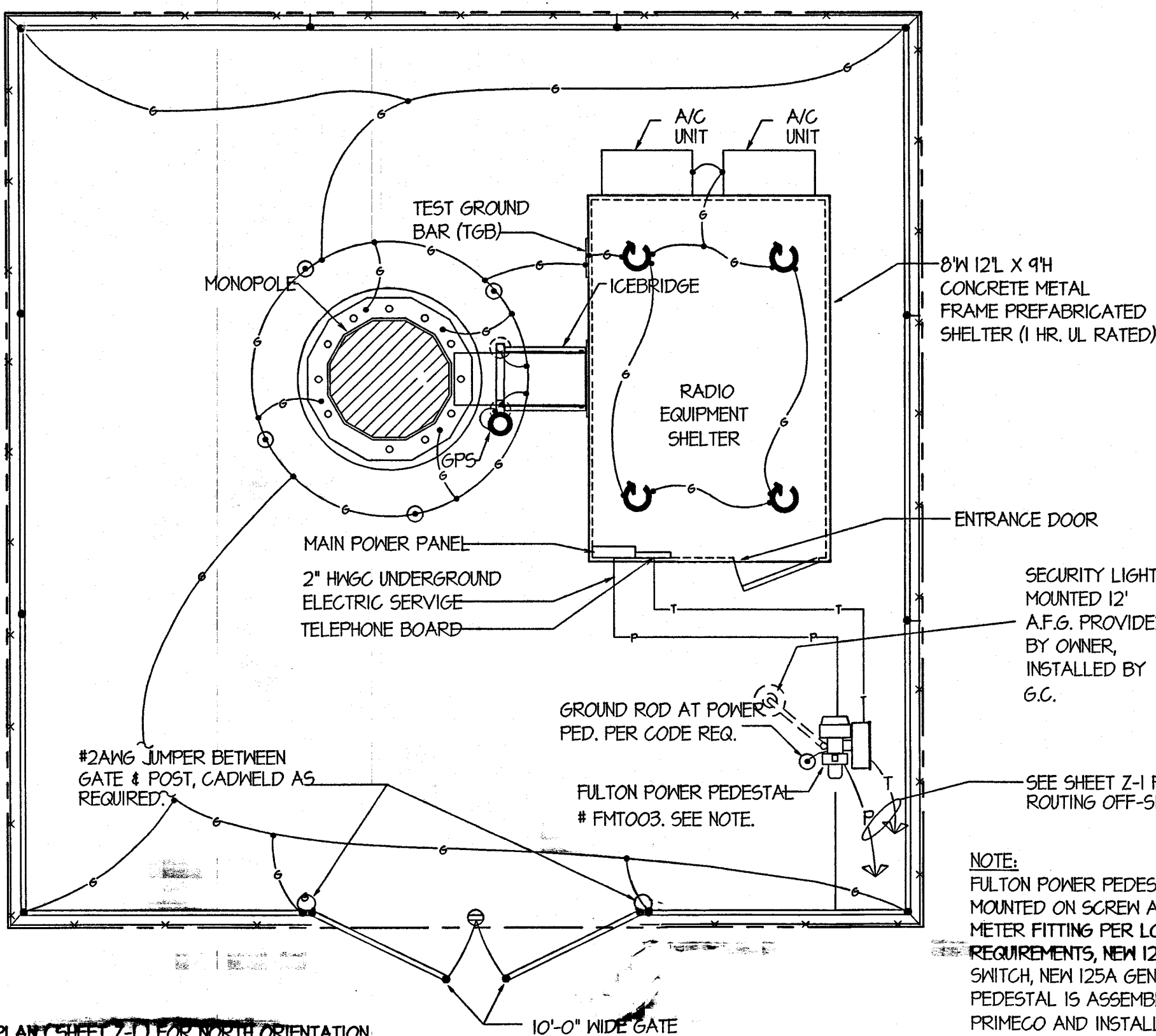
CLARKSON GRAIN COMPANY
SOUTH BROADWAY
DECATUR, IL

SHEET TITLE

SECTIONS AND DETAILS FOR 8'X12' SCREW ANCHOR FOUNDATION

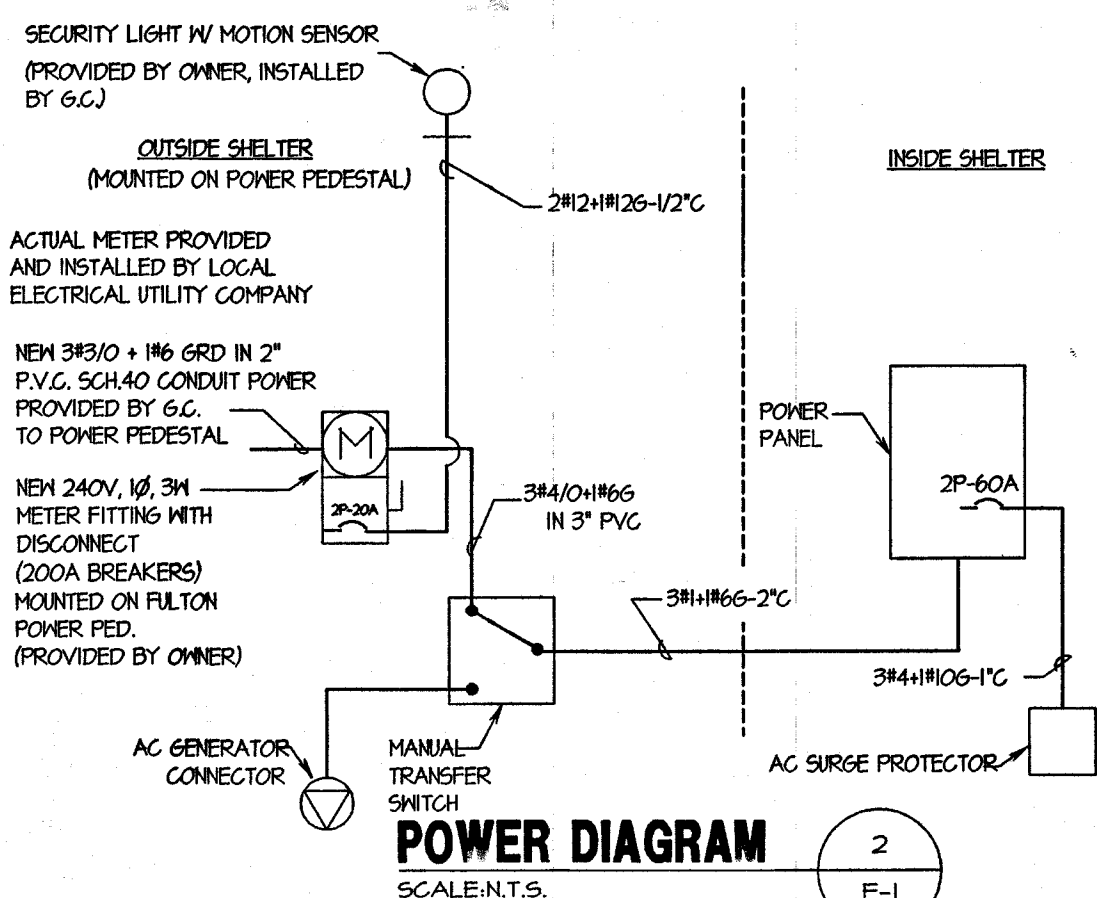
SHEET NUMBER

S-1

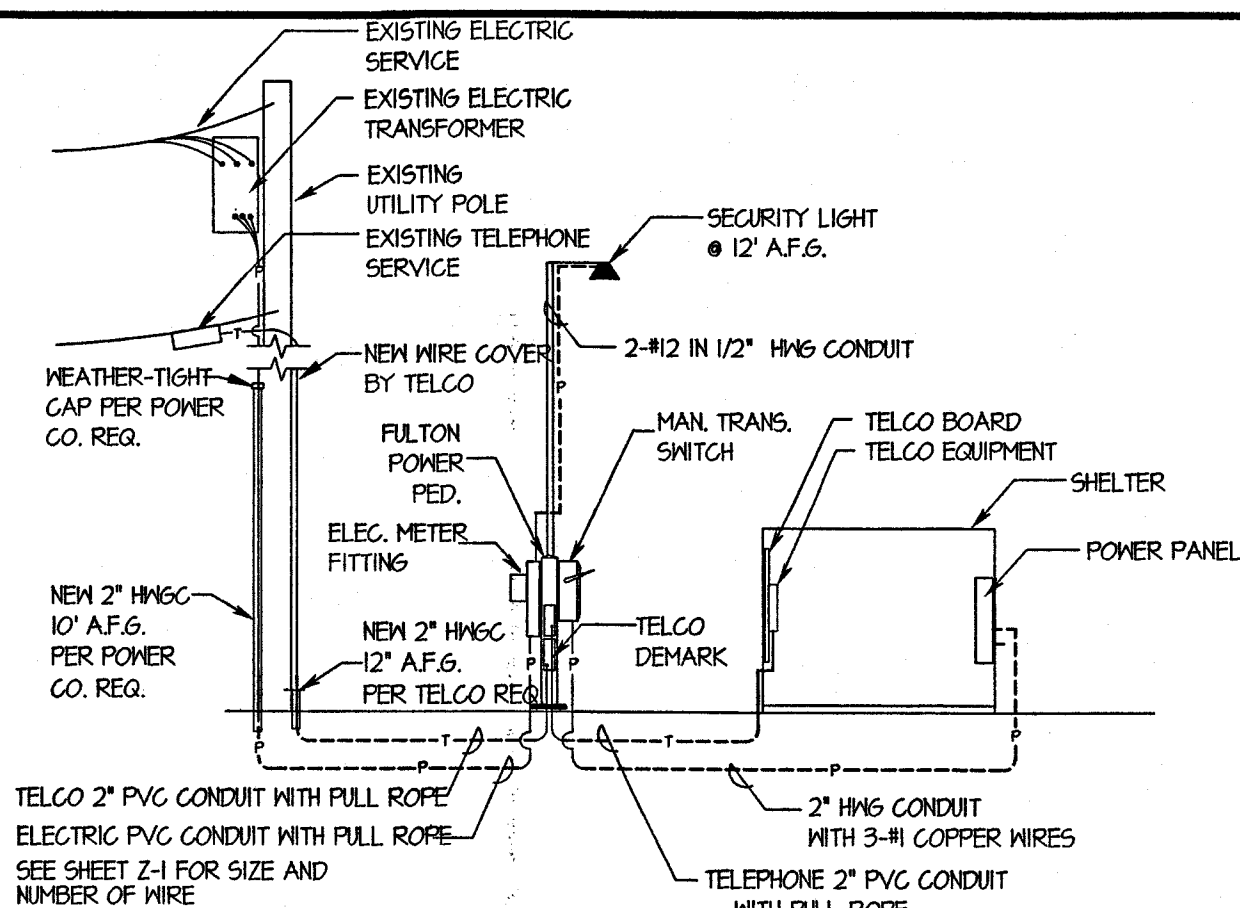


**ELECTRICAL
SITE PLAN**
SCALE: 1/4"=1'-0"

PEDESTAL PROVIDED BY
OWNER, INSTALLED BY G.C.
TELCO. SHALL PROVIDE &
INSTALL TELETREND TELCO
ELECTRIC UTILITY SHALL
PROVIDE AND INSTALL METER.



POWER DIAGRAM
SCALE: N.T.S.



ELECTRICAL/TELEPHONE RISER
SCALE: N.T.S.

LEGEND

	SAFETY DISCONNECT SWITCH, SIZED AS NOTED	A	AMPERE
	PANELBOARD	V	VOLT
	KILOWATT HOUR METER	W	WIRE
	TRANSFORMER	C	CONDUIT
	CIRCUIT BREAKER	G	GROUND
	LIGHTING FIXTURE, SIZE AS NOTED	P	POLE
	COPPER GROUND BAR, SIZED AS NOTED	SPGB	SURGE PROTECTOR GROUND BAR (1/4"x2"x24")
	EXOTHERMIC WELD CONNECTION	CGB	COLLECTOR GROUND BAR (1/4"x4"x24")
	COMPRESSION FITTING GROUND CONNECTION	EGB	EXTERNAL GROUND BAR (1/4"x8"x24")
	COAXIAL CABLE GROUND CONNECTION	MGB	MASTER GROUND BAR (1/4"x8"x24")
	GROUND TEST PIT	IGR	INTERNAL GROUND RING ("HALO" GROUND)
	GROUND ROD	EGR	EXTERNAL GROUND RING
	POWER WIRING, SIZED AS NOTED	ACU	AIR CONDITIONER UNIT
	TELCO WIRING, SIZED AS NOTED		
	GROUND WIRING, SIZED AS NOTED		
			FULTON SCREW ANCHOR

ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ACCEPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED.
- WIRES AND CABLES FOR POWER AND LIGHTING SHALL BE COPPER WITH TYPE XHHW, THIN, OR THIN INSULATION. SOLID CONDUCTORS FOR #10 AWG AND SMALLER, STRANDED FOR LARGER THAN #10 AWG. MINIMUM SIZE #12 AWG.
- WIRES AND CABLES FOR POWER AND LIGHTING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT OR FLEXIBLE LIQUIDTIGHT CONDUIT AS INDICATED ON DRAWING.
- CONTRACTOR TO OBTAIN ALL PERMITS, PAY PERMIT FEES, AND BE RESPONSIBLE FOR SCHEDULING INSPECTIONS.
- CONTRACTOR TO OBTAIN LOCAL POWER AND TELEPHONE COMPANY APPROVAL AND COORDINATE WITH UTILITY COMPANIES SERVICE ENTRANCE REQUIREMENTS.
- PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELD") TO ANTENNA MASTS, FENCE POSTS, MONOPOLE, AND THE GROUND RODS. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH ANDREWS COAX CABLE GROUNDING KITS
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE, ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- CONTRACTOR TO PROVIDE GROUND RODS AND GROUND RING AS SHOWN ON ELECTRICAL SITE PLAN AND GROUNDING RISER DIAGRAM. CONTRACTOR SHALL TEST AND VERIFY THAT THE IMPEDANCE DOES NOT EXCEED 5 OHMS TO GROUND BY MEANS OF A BIDDLE-MEGGER TESTER. GROUNDING AND OTHER OPERATIONAL TESTING SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE.
- CONTRACTOR TO PROVIDE 2" SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH PULL WIRE BETWEEN TELEPHONE COMPANY DEMARCATION POINT AND TELCO LINE BOX ON POWER PEDESTAL. CONTRACTOR SHALL PROVIDE 2" HNGC FROM POWER PEDESTAL TO SHELTER WITH PENETRATION FITTING.
- CONTRACTOR TO PROVIDE 2" SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH PULL WIRE BETWEEN ELECTRICAL UTILITY COMPANY DEMARCATION POINT AND KWH METER BASE ON POWER PEDESTAL. CONTRACTOR SHALL PROVIDE 2" HNGC FROM POWER PEDESTAL TO SHELTER WITH PENETRATION FITTING.
- NOTIFY JULIE (1-800-892-0123) PRIOR TO ANY EXCAVATION.
- CONTRACTOR TO PROVIDE GROUND INSPECTION WELL. REFER TO APPROPRIATE DETAIL ON DRAWING E-3.
- GROUNDING CONDUCTORS SHALL BE COPPER ONLY. ABOVE GROUND EITHER SOLID OR STRANDED CONDUCTORS ARE PERMITTED. IGR AND ALL EXTERNAL CONDUCTORS (WITH THE EXCEPTION FOR GROUND WIRE BETWEEN THE TOP AND THE BOTTOM OF THE ANTENNA TOWER) MUST BE BARE. EQUIPMENT GROUND LEADS IN CABLE TRAYS MUST BE GREEN INSULATED. BELOW GROUND BARE SOLID TINNED WIRE SHALL BE USED. ALL WIRES MUST BE #2 AWG MIN. WITH THE EXCEPTION OF GROUND WIRES FOR MISCELLANEOUS METALLIC OBJECTS IN THE EQUIPMENT SHELTER, WHERE #6 AWG WIRES CAN BE USED.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS UNIFORMLY SPACED AROUND CELL SITE. THE GROUND RODS SHALL BE 5/8"x8'-0" COPPER CLAD STEEL. THE RODS SHALL BE INTERCONNECTED WITH #2 AWG BARE SOLID TINNED COPPER GROUND WIRE BURIED 30" BELOW THE SURFACE OF THE SOIL. MINIMUM DISTANCE BETWEEN GROUND RODS - 8', MAXIMUM - 16'

PRIMECO
PERSONAL COMMUNICATIONS
ONE PIERCE PLACE
SUITE 1100
ITASCA, ILLINOIS 60143
OFFICE: (630) 773-1600
FAX: (630) 285-1580

APPROVALS

PRIMECO _____
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
BSIE _____

PROJECT NO. T97170

DRAWN BY: CDG

CHECKED BY: KMM

6-24-97 FOR CONSTRUCTION

W-T

W-T ENGINEERING, INC.
CONSULTING ENGINEERS
39 EAST SCULLY DRIVE
SCHAUMBURG, ILLINOIS 60193
ph. (847) 895-3640
fax. (847) 895-9985

**CGB 3614-7
SOUTH/CENTRAL
DECATUR**

**CLARKSON GRAIN COMPANY
SOUTH BROADWAY
DECATUR, IL**

SHEET TITLE

**ELECTRICAL PLAN,
RISER, NOTES
AND DETAILS**

SHEET NUMBER

E-1

