

#22/17-01A 17800 Bowie Mill Road (iv)
(MP #22/17 Flint Hill II)

Deane Mellander

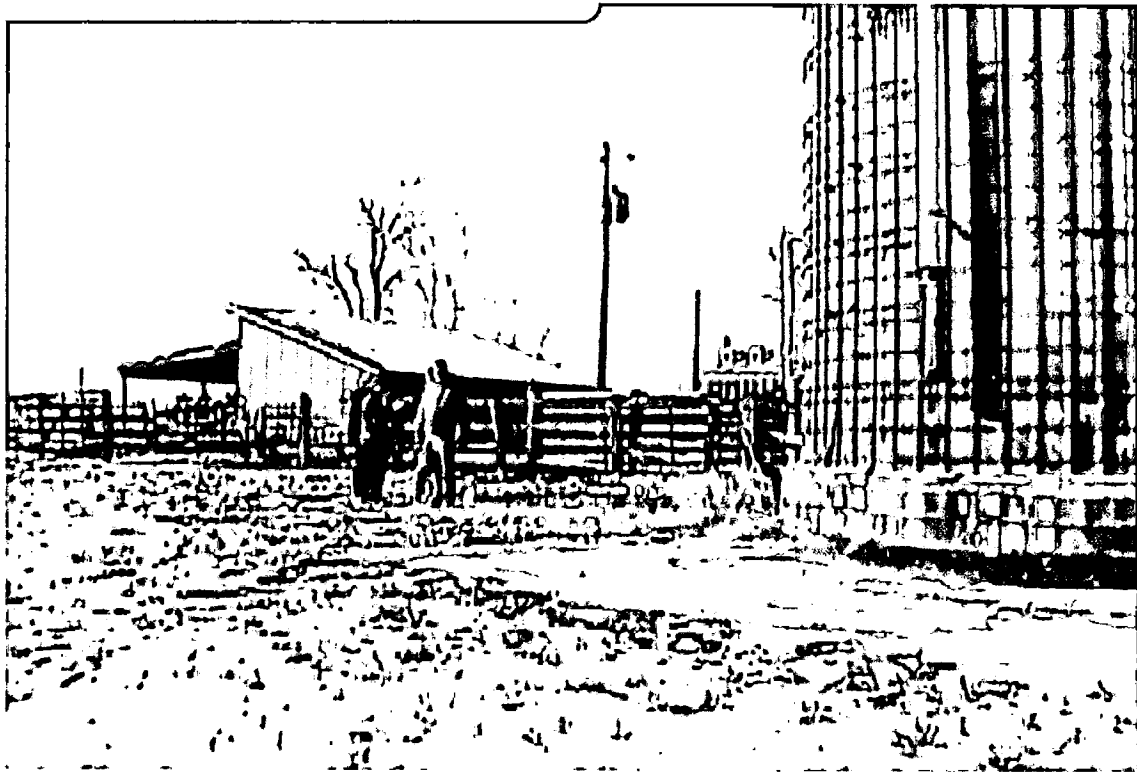
Zoning Associate
Independent Contractor
TH, Inc.

Office (240) 264-8658
PCS (301) 793-0255
Fax (240) 264-8610
12050 Baltimore Avenue
Beltsville, MD 20705
deane.mellander@voicestream.com

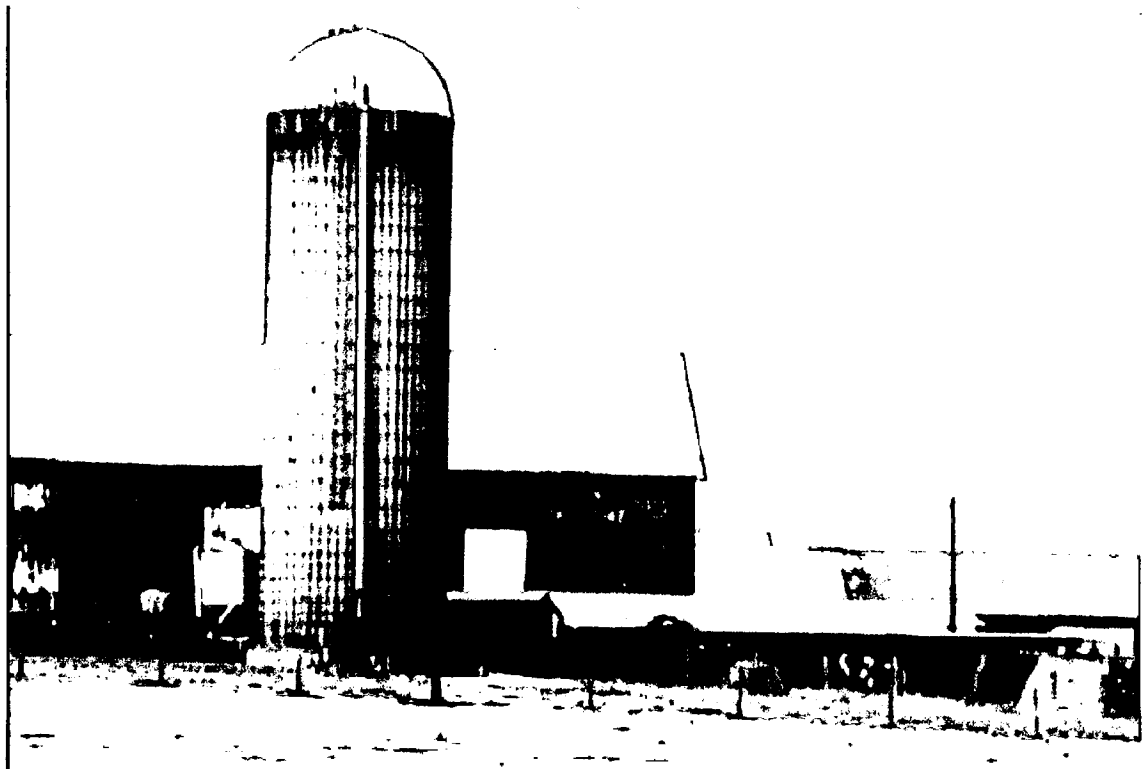
The logo for VoiceStream Wireless. The word "VoiceStream" is written in a bold, italicized, sans-serif font. Below it, the word "WIRELESS" is written in a smaller, all-caps, sans-serif font. A curved line arches over the text.

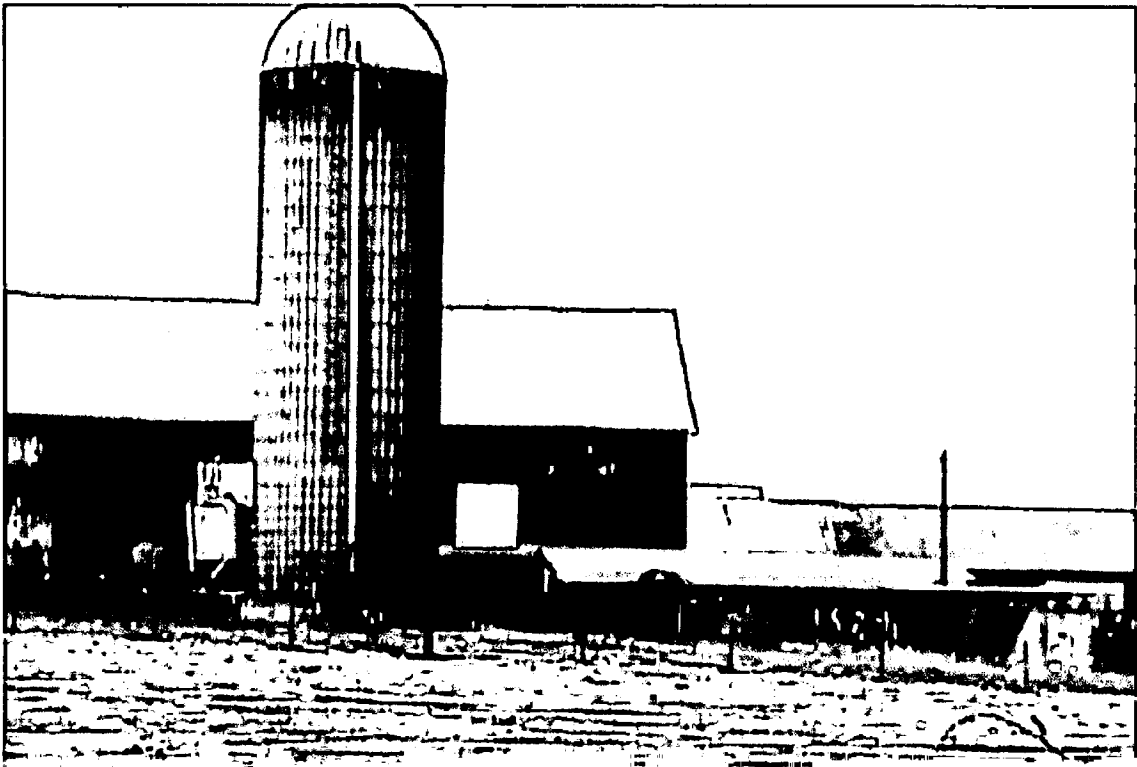
VoiceStream
WIRELESS

Fraley Farm Silo—Site of Proposed Shelter



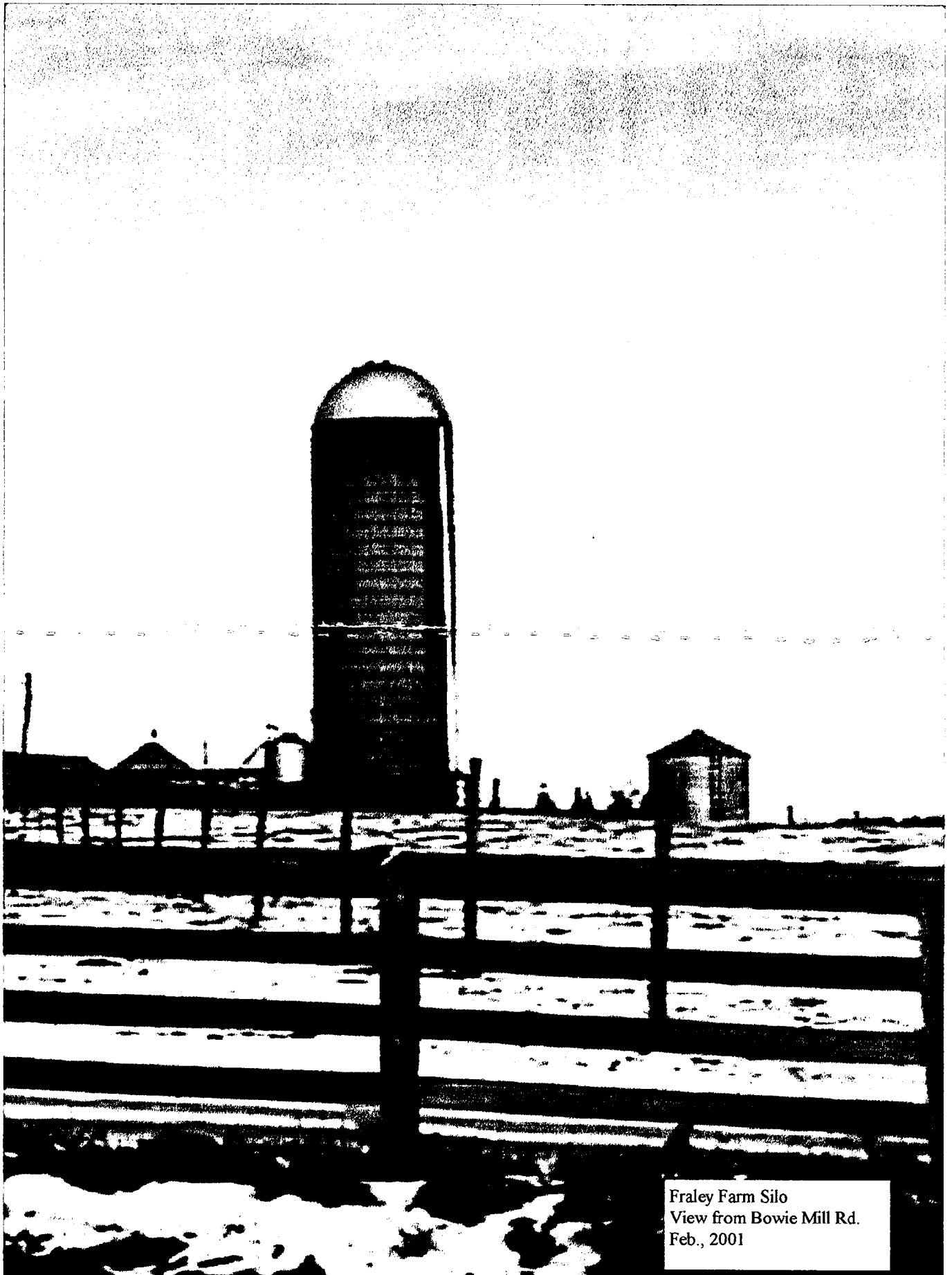
Fraley Farm Silo—Overall View of Buildings



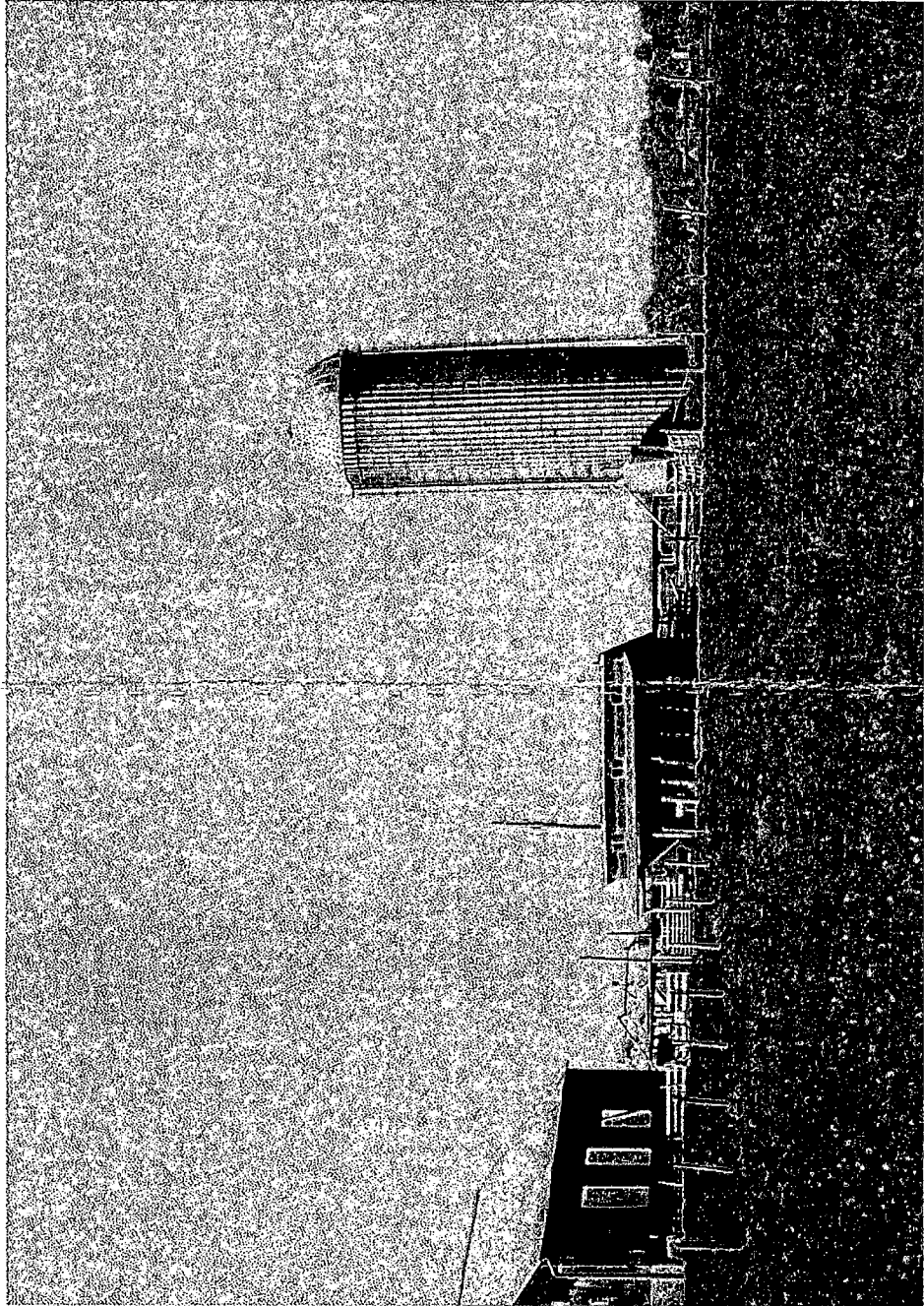




EQUIPMENT CABINETS
TO BE HOUSED IN
LEAN-TO SHELTER



Fraley Farm Silo
View from Bowie Mill Rd.
Feb., 2001



VIEW FROM ROAD



OMNIPOINT

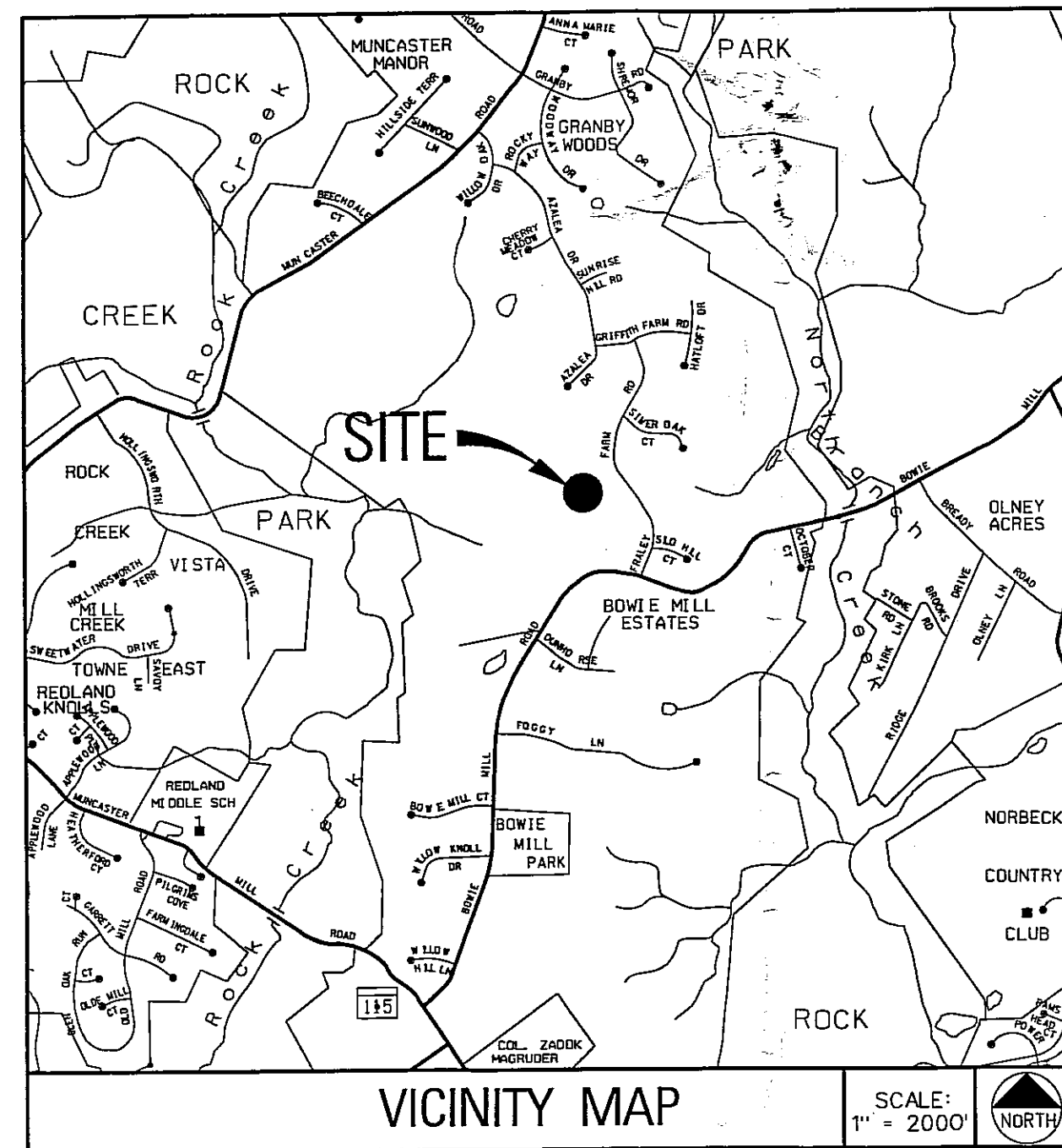
COMMUNICATIONS CAP OPERATIONS, LLC

PROPOSED UNMANNED WIRELESS COMMUNICATION SITE

SITE WAN 162B

REDLAND - FRALEY FARM

17800 BOWIE MILL ROAD DERWOOD, MD 20855



DRIVING DIRECTIONS

FROM THE OMNIPOINT OFFICES IN BELTSVILLE, TAKE RT. 1 NORTH TO RT. 198 WEST. FOLLOW PAST RT. 29 AND TO THE END AT RT. 650 (NEW HAMPSHIRE AVE.) TURN RIGHT ON RT. 650. FOLLOW UP TO RT. 108 AND TURN LEFT ONTO RT. 108. FOLLOW TO BOWIE MILL ROAD AND TURN LEFT. FOLLOW TO FRALEY FARM ROAD AND TURN RIGHT. ENTRANCE TO SITE IS ON THE LEFT.

SHEET	DESCRIPTION	REV.
T1	TITLE SHEET	
C1	SITE PLAN	
C2	COMPOUND DETAIL AND SILO ELEVATION	
C3	COMPOUND DETAILS	
GC1	SILO ELEVATION AND DETAILS	
GC2	ANTENNA MOUNTING PLAN, SECTIONS AND DETAILS	
E1	POWER AND TELCO PLAN	
E2	GROUNDING PLAN	
E3	DETAILS	

SHEET INDEX

EQUIPMENT LOCATION: OUTDOOR INDOOR

EQUIPMENT TYPE: RBS 2102 NORTEL S-8000 ISM / WCS

ANTENNA LOCATION: GUY TOWER SELF SUPPORT TOWER MONOPOLE ROOF TOP EXISTING TOWER OTHER

JURISDICTION: MONTGOMERY COUNTY
ZONING: RE-1

THE PROPOSED FACILITIES WILL CONSIST OF A 10' X 15' CONCRETE PAD WITH 1 RBS EQUIPMENT CABINET ENCLOSED IN A SHELTER THAT IS OPEN ON ONE SIDE FOR ACCESS. IN ADDITION, 6 TELECOMMUNICATIONS ANTENNAS AND 12 COAX CABLES WILL BE MOUNTED ON THE EXISTING 68.4' SILO.

PROJECT SUMMARY

TITLE	SIGNATURE	DATE
RF ENGINEER		
REAL ESTATE		
OMNIPOINT AREA MANAGER		
PROPERTY OWNER		
ZONING APPROVAL		
CONSTRUCTION MANAGER		
ADDITIONAL APPROVAL		

APPROVAL LIST

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

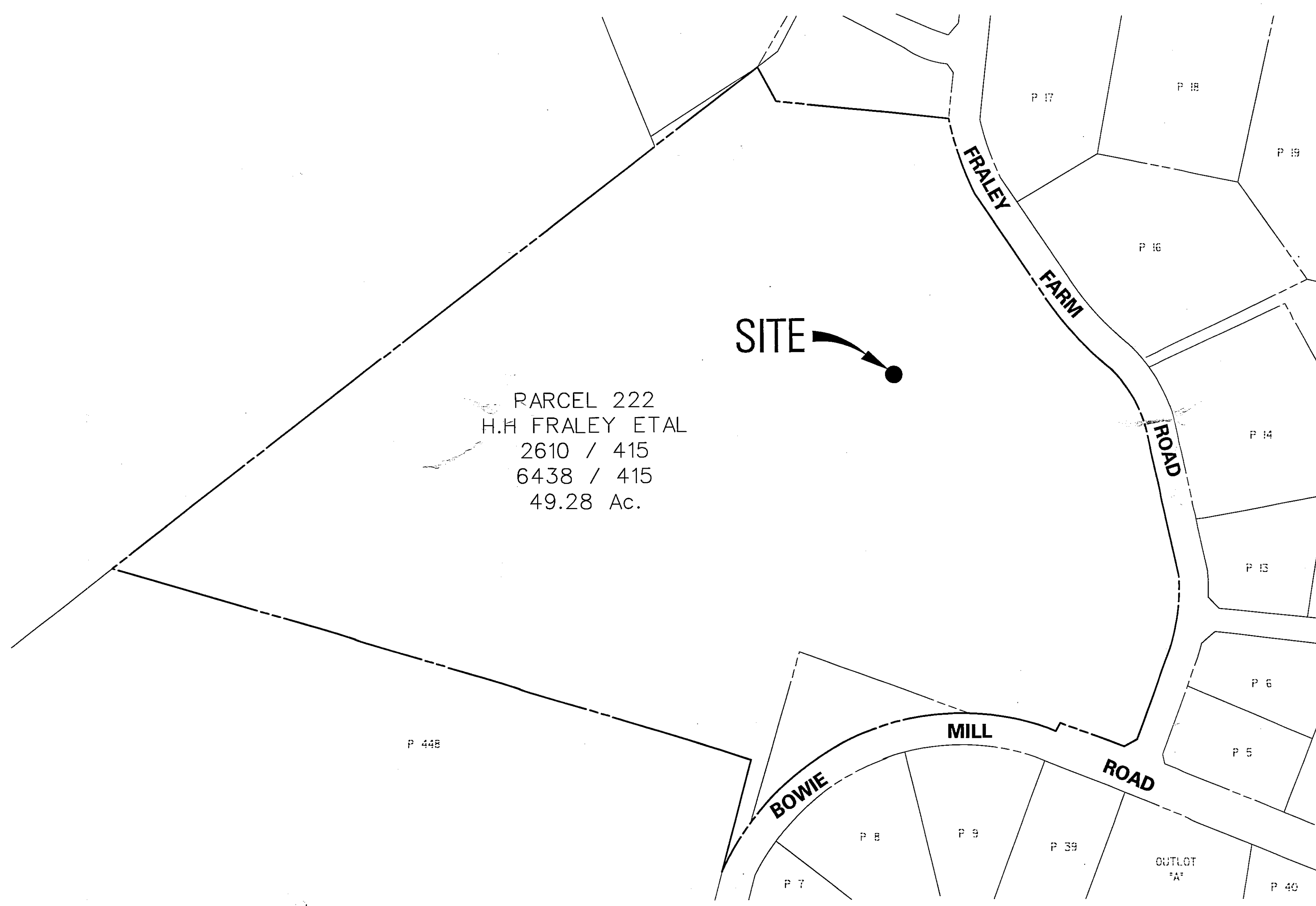
1. UNIFORM BUILDING CODE (UBC) 1997	6. LIFE SAFETY CODE NFPA-101-1990
2. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA) 1996	7. AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS (AISC)
3. UNIFORM MECHANICAL CODE (UMC) 1997	8. UNDERWATER LABORATORIES APPROVED ELECTRICAL PRODUCTS
4. NATIONAL ELECTRIC CODE (NEC) WITH LOCAL AMENDMENTS 1999	9. LOCAL BUILDING CODE
5. ANSI / EIA-222-F	10. CITY / COUNTY ORDINANCES

CODE COMPLIANCE

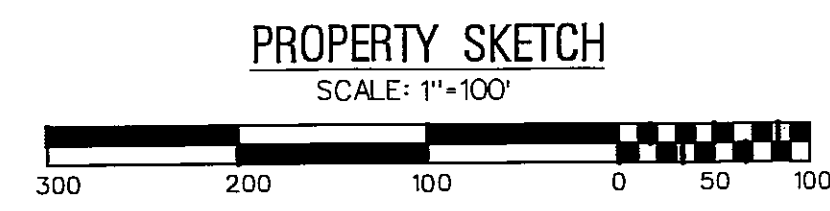
APPROVED
Montgomery County
Historic Preservation Commis



<p>OMNIPOINT COMMUNICATIONS CAP OPERATIONS, LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 (240) 264-9800 FAX: (240) 264-8510</p>		<p>SITE WAN 162B REDLAND-FRALEY FARM UNMANNED WIRELESS COMMUNICATION SITE</p>	<p>TITLE SHEET</p> <p>DRAWING NO. T1</p> <p>CHECKED BY: TA</p> <p>DRAWN BY: AMW</p> <p>PROJECT NO. 160013-74</p> <p>SCALE: AS SHOWN</p> <p>DATE: 06-27-01</p>																								
<p>ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS</p> <p>14408 Greenview Drive, Suite 102 Laurel, Maryland 20708 (301) 953-1821 (410) 792-8088 FAX: (410) 792-7419 www.kci.com</p>		<p>ISSUE DATE: 05-31-01</p> <p>95% SUBMISSION: 05-31-01</p> <p>100% SUBMISSION: 06-21-01</p> <p>PERMIT SUBMISSION: 06-27-01</p> <p>SCHEDULE OF REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>AMW</td> <td>ISSUE</td> </tr> <tr> <td>2</td> <td></td> <td>AMW</td> <td>REVISED ZONING</td> </tr> <tr> <td>3</td> <td></td> <td>AMW</td> <td>REVISED ZONING</td> </tr> <tr> <td>4</td> <td></td> <td>AMW</td> <td>REVISED ZONING</td> </tr> <tr> <td>5</td> <td></td> <td>AMW</td> <td>REVISED ZONING</td> </tr> </tbody> </table>		NO.	DATE	BY	REVISION	1		AMW	ISSUE	2		AMW	REVISED ZONING	3		AMW	REVISED ZONING	4		AMW	REVISED ZONING	5		AMW	REVISED ZONING
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<p>160013-74</p> <p>OMNIPOINT COMMUNICATIONS CAP OPERATIONS, LLC</p> <p>SITE WAN 162B REDLAND-FRALEY FARM</p> <p>17800 BOWIE MILL ROAD DERWOOD, MD 20855</p>																											



PARCEL 222
 H.H FRALEY ETAL
 2610 / 415
 6438 / 415
 49.28 Ac.



SITE NOTES

- Applicant: Omnipoint Communications CAP Operations LLC
 12050 Baltimore Avenue
 Beltsville, MD 20817
 Local Contact: Tom Ryall
 (240) 264-8600
- Property Owner: Harry H. Fraley
 17800 Bowie Mill Road
 Derwood, MD 20855
 Contact: Kenny Fraley
- Site Data: Tax Map HT122 & GT 562, Parcel 222
 Tract area: 49.28 Ac.
 Election District No. 08
 L: 9596 / F: 33
 ADC Map 20, Grid H-7
 Tax ID#: 08-00706980
 Address: 17800 Bowie Mill Road
 Derwood, MD 20855
 Montgomery Co., MD
- Current Use: Agricultural/Residential
- The proposed facilities will consist of a 10' x 15' concrete pad with 1BTS Equipment Cabinet enclosed in a shelter that is open on one side for access. In addition, 6 telecommunications antennas and 12 coax cables will be mounted on the existing 68.4' silo.
- Current Zoning: RE-1
- Latitude: 39° 09' 01" N
 Longitude: 77° 06' 55" W
- Total disturbed area: 150 square feet
- If the antennas are no longer used for telecommunications purposes for a continuous period of one (1) year, they shall be removed by the antenna owner at owner's expense.
- No water or sanitary utilities are required for the operation of this facility.
- This site is exempt from Stormwater Management Requirements.
- No parking spaces are required for the proposed Omnipoint equipment cabinet.
- This site is exempt from the Montgomery County Woodland Conservation and Tree Preservation Ordinance.
- Project to comply with all conditions required by Montgomery County Historic Preservation Commission.

GENERAL NOTES

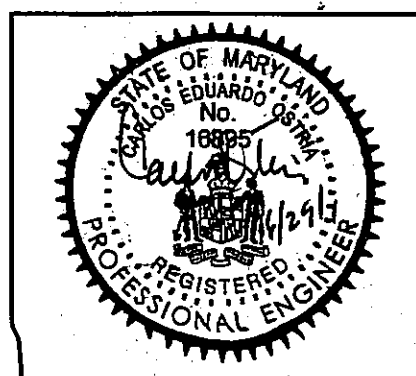
- Contractor shall contact a subsurface utility locator for location of existing utilities prior to commencement of any construction activities. Contractor shall verify existing utility locations by test pit as necessary. Location of utilities shown on this plan are approximate and for planning purposes only.
- Contractor to provide temporary toilet facilities for duration of project.
- All work shall be completed in accordance with all State and Local codes and ordinances, the latest edition thereof.
- Contractor shall secure all necessary permits for this project from all applicable Governmental agencies.
- Any permits which must be obtained shall be the contractor's responsibility. The contractor shall be responsible for abiding by all conditions and requirements of the permits.
- Contractor shall coordinate all utility connections with appropriate utility owners.
- In any excavated area, backfill will be placed with dry material free of rock or stones larger than 1" in 12" lifts, compacted to 95% dry density. All disturbed areas to be restored to match surrounding conditions.
- These plans are not for recordation or conveyance.
- Existing pavement and other surfaces disturbed by contractor (which are not to be removed) shall be repaired to preconstruction conditions by the contractor.
- Damage to utilities or property of others by the contractor during construction shall be repaired to preconstruction conditions by the contractor.
- Notify "Miss Utility" at 1-800-257-7777 - 48 hours prior to doing any excavation in this area.

The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

ANTENNA CONTRACTOR'S SCOPE OF WORK

- Antenna contractor shall coordinate cable routing with Omnipoint construction coordinator.
- All antenna pipe mounts and hardware shall be hot-dip galvanized in accordance with ASTM A123 and A 153.
- Use 1/2" Dia. coaxial jumper cable between antenna connection and coaxial cable termination. Attach 1/2" Dia. cable to pipe mount to minimize visibility.
- Contractor shall furnish and install all supports, including ice bridge as shown on the drawings.
- Contractor shall install all antennas and coaxial cables furnished by Omnipoint as shown on the drawings.

APPROVED
 Montgomery County
 Historic Preservation Commission



DRAWING TITLE		SITE PLAN	
DRAWING NO.	C1	CHECKED BY:	TA
DATE:	1/14	DRAWN BY:	AVR
PROJECT NO.:	1600013-74	SCALE AS SHOWN	
FILE NO.:	1600013-74-C100A		

SITE WAN 162B
 REDLAND-
 FRALEY FARM
 UNMANNED WIRELESS
 COMMUNICATION SITE

12050 BALTIMORE AVENUE
 BELTSVILLE, MD 20705
 (240) 264-8600 FAX: (240) 264-8610

ENGINEERS
 PLANNERS
 SCIENTISTS
 CONSTRUCTION MANAGERS

14400 FARMVIEW DRIVE, SUITE 102
 LAUREL, MARYLAND 20708
 (301) 963-8821 (410) 792-8086
 FAX: (410) 792-7419
 WWW.KCI.COM

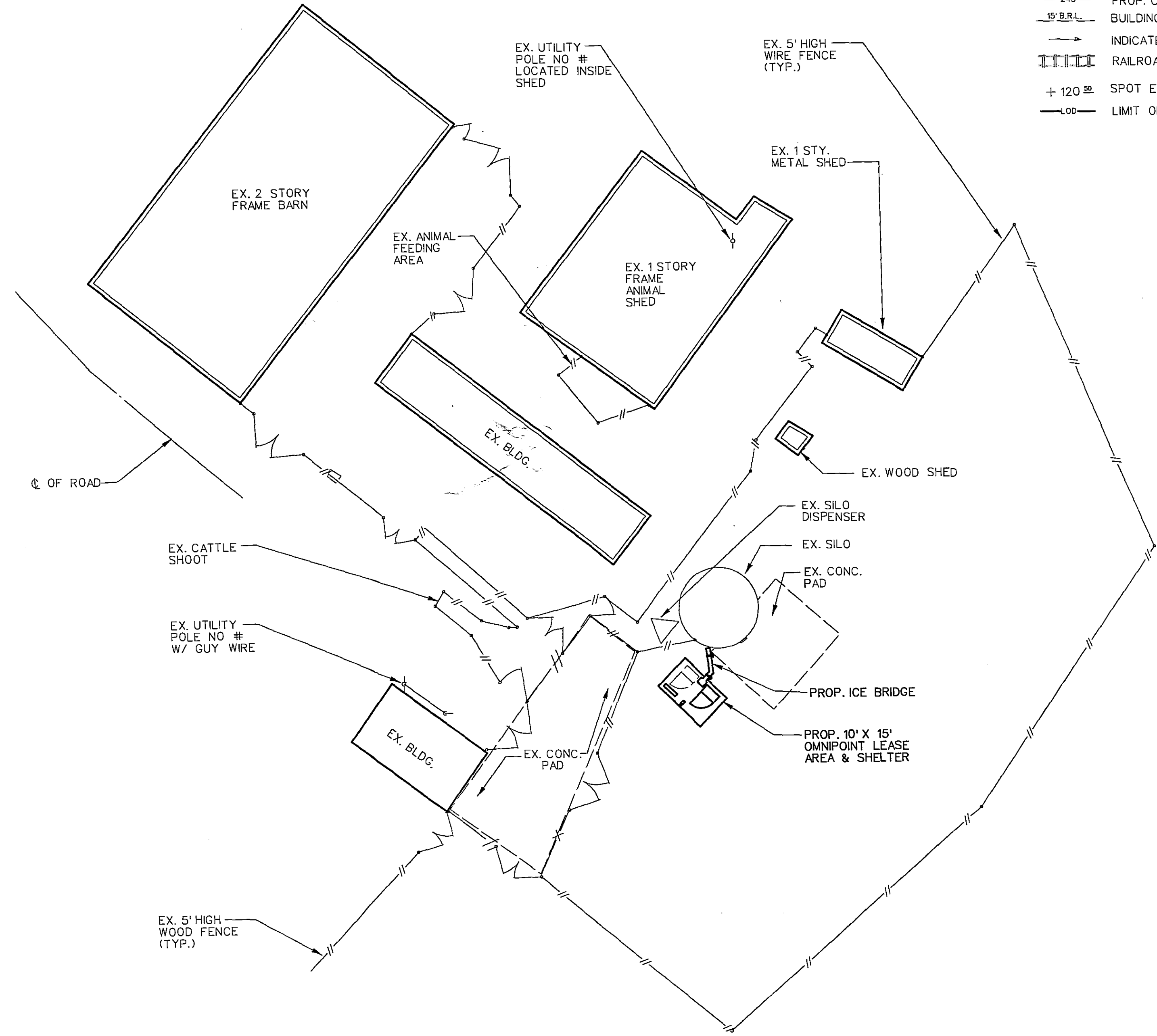
ISSUE DATE	05-31-01	100% SUBMISSION	06-27-01	PERMIT SUBMISSION	06-27-01
SCHEDULE OF REVISIONS					
NO.	1	REVISED ZONING	0	DATE	06-28-01
BY	AVR	NIK	0	DATE	06-28-01
BY	AVR	NIK	0	DATE	06-28-01

1600013-74

 SITE WAN 162B
 REDLAND-
 FRALEY FARM
 17800 BOWIE MILL ROAD
 DERWOOD, MD 20855

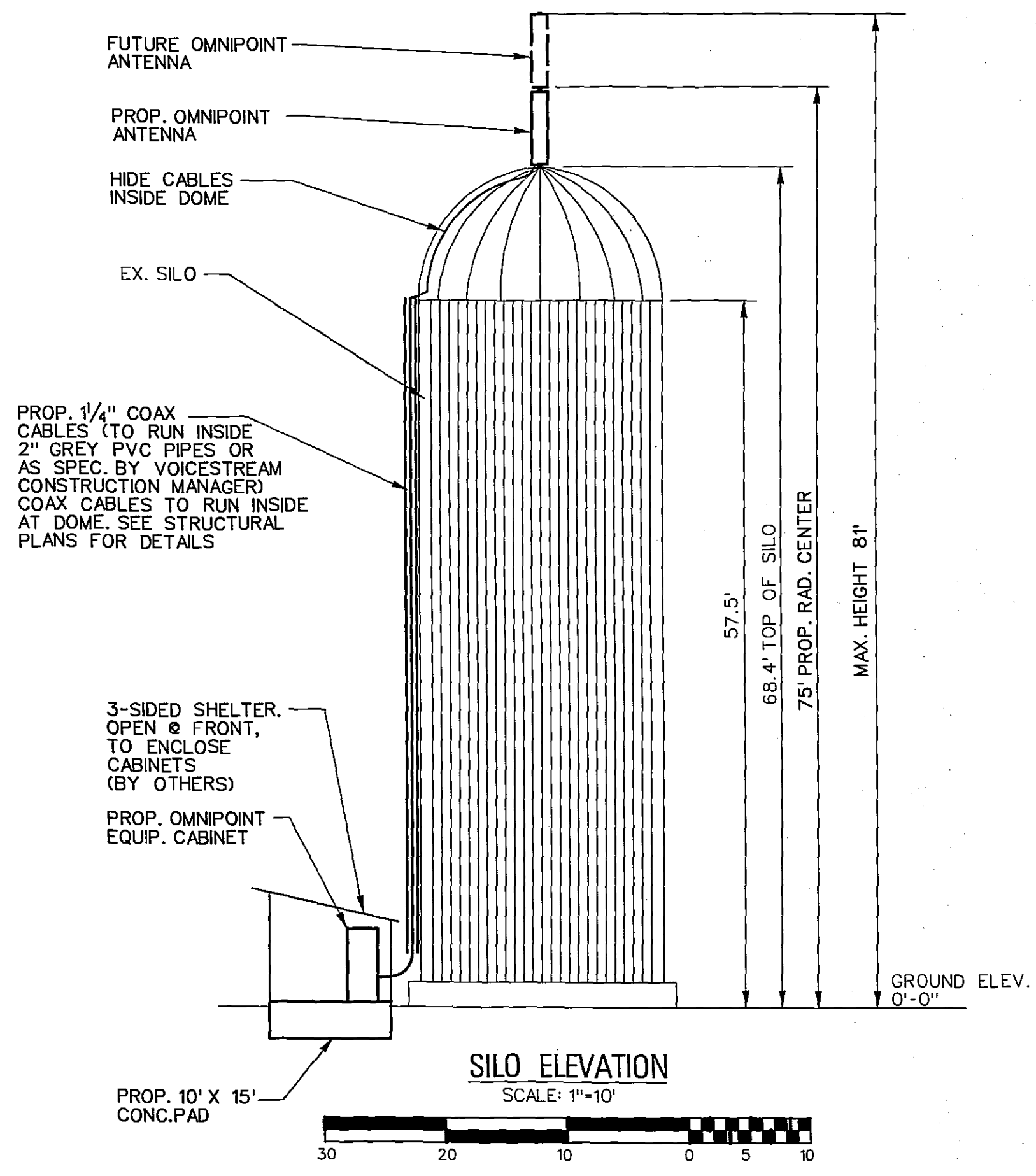
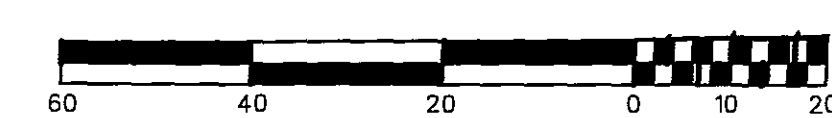
LEGEND

- PROP. TREE LINE
- EX. TREE LINE
- FIRE HYDRANT POLE
- POLE WITH LIGHT
- EVERGREEN TREE
- OAK
- EX. FENCE
- PROP. FENCE
- EX. CONTOURS
- PROP. CONTOURS
- BUILDING RESTRICTION LINE
- INDICATES SURFACE FLOW
- RAILROAD LINE
- SPOT ELEVATION
- LIMIT OF DISTURBANCE



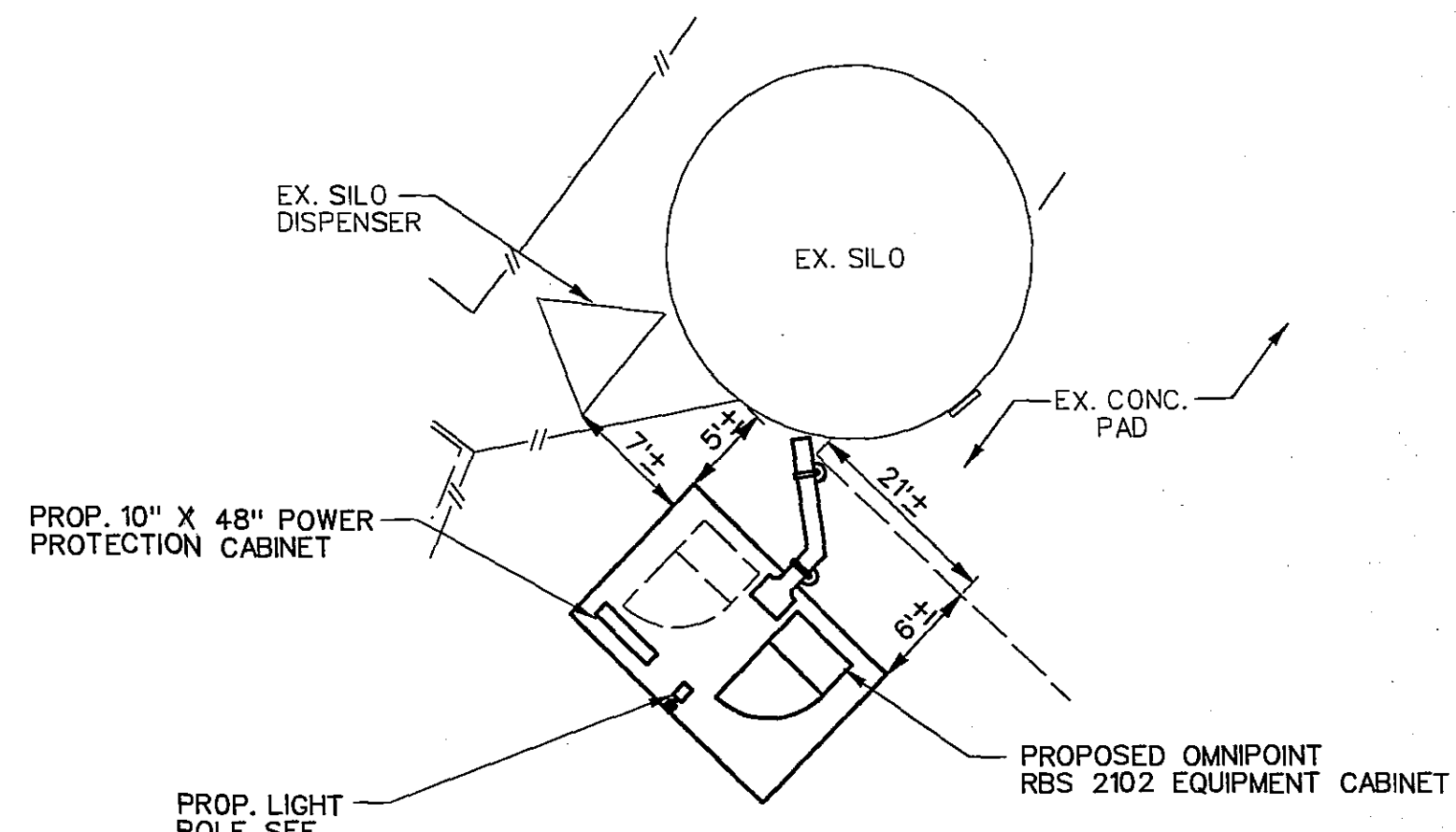
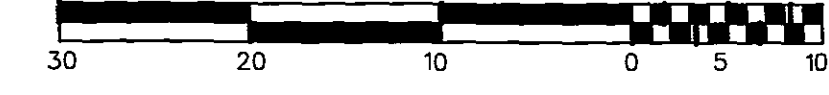
SITE PLAN

SCALE: 1"=20'



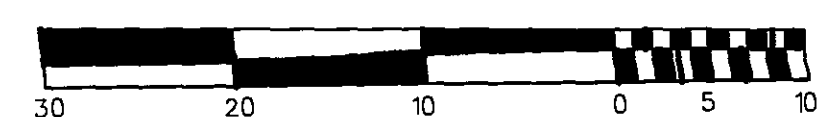
SILO ELEVATION

SCALE: 1"=10'

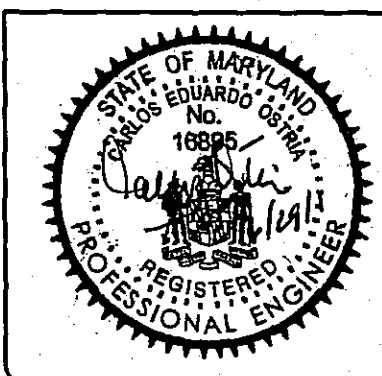


COMPOUND DETAIL

SCALE: 1"=0'



APPROVED
Montgomery County
Historic Preservation Commission
[Signature]



ISSUE DATE: 08-21-01

95% SUBMISSION	08-21-01	08-27-01
100% SUBMISSION	08-21-01	08-27-01
PERMIT SUBMISSION		
SCHEDULE OF REVISIONS		
NO.	DATE	DESCRIPTION
1		
2		
3		

1600013-74

OWNER: SITE PLAN	DRAWING NO.:
COMPOUND DETAIL	C2
AND SILO ELEVATION	
DESIGNED BY: TA	DRAWING NO.:
CHECKED BY: ANW	PROJECT NO.:
DRAWN BY: TA	SCALE: AS SHOWN
DATE: 08/21/01	DATE: 08/21/01

SITE WAN 162B
REDLAND-FRALEY FARM
UNMANNED WIRELESS COMMUNICATION SITE

OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC
12050 BALTIMORE AVENUE
BELTSVILLE, MD 20705
(240) 264-8600 FAX: (240) 264-8610

KCI TECHNOLOGIES
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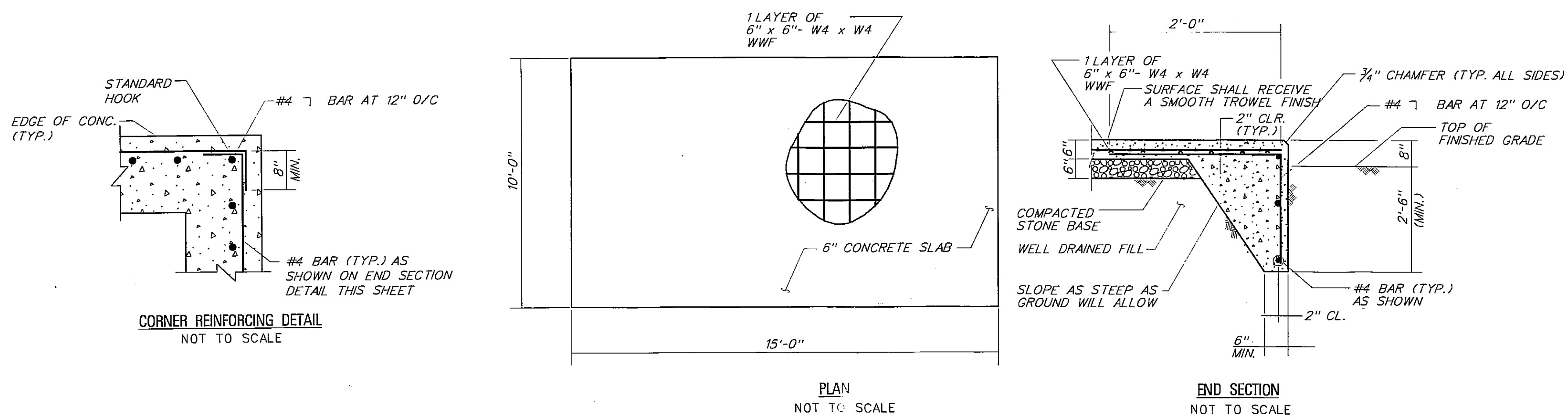
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1600013-74

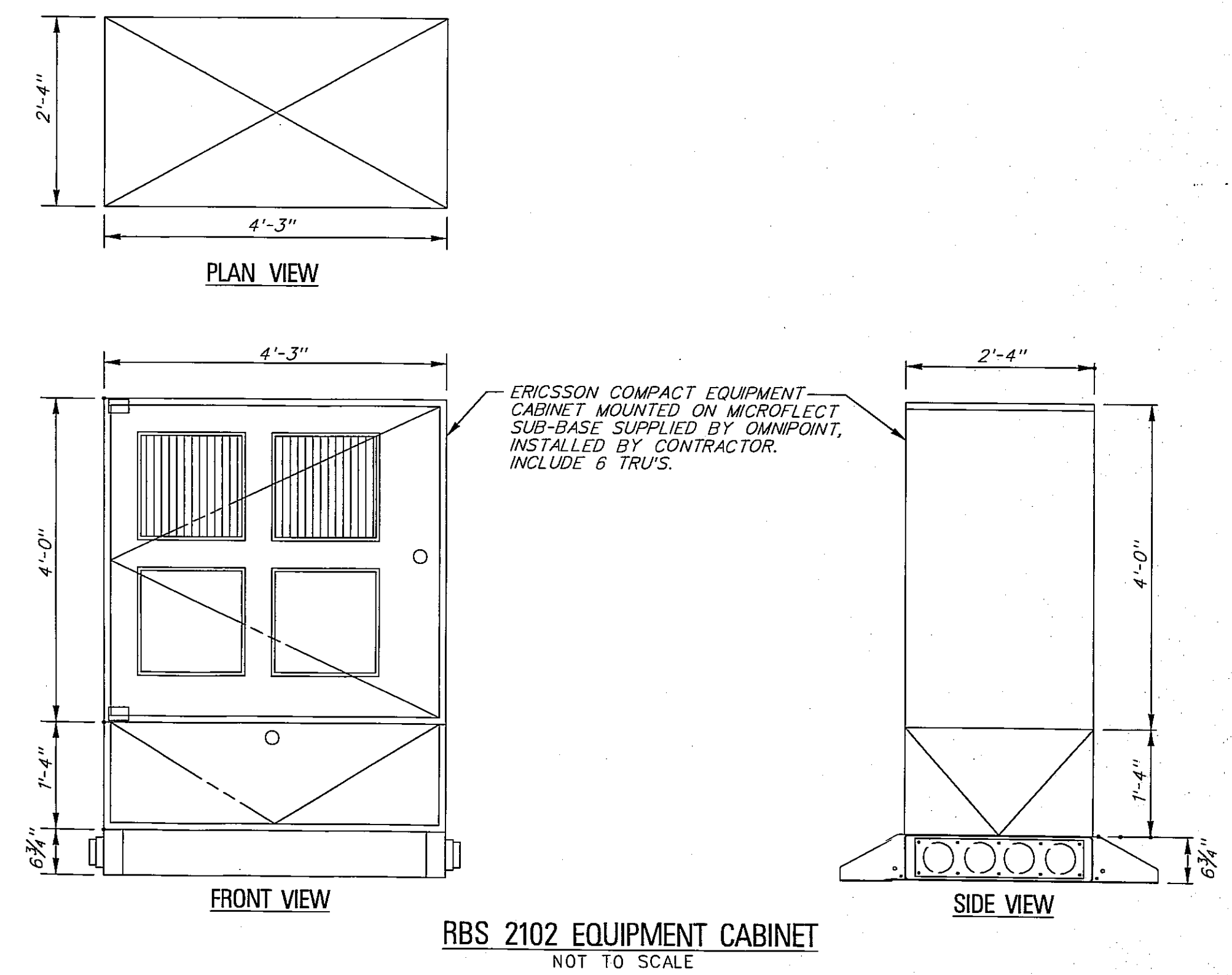
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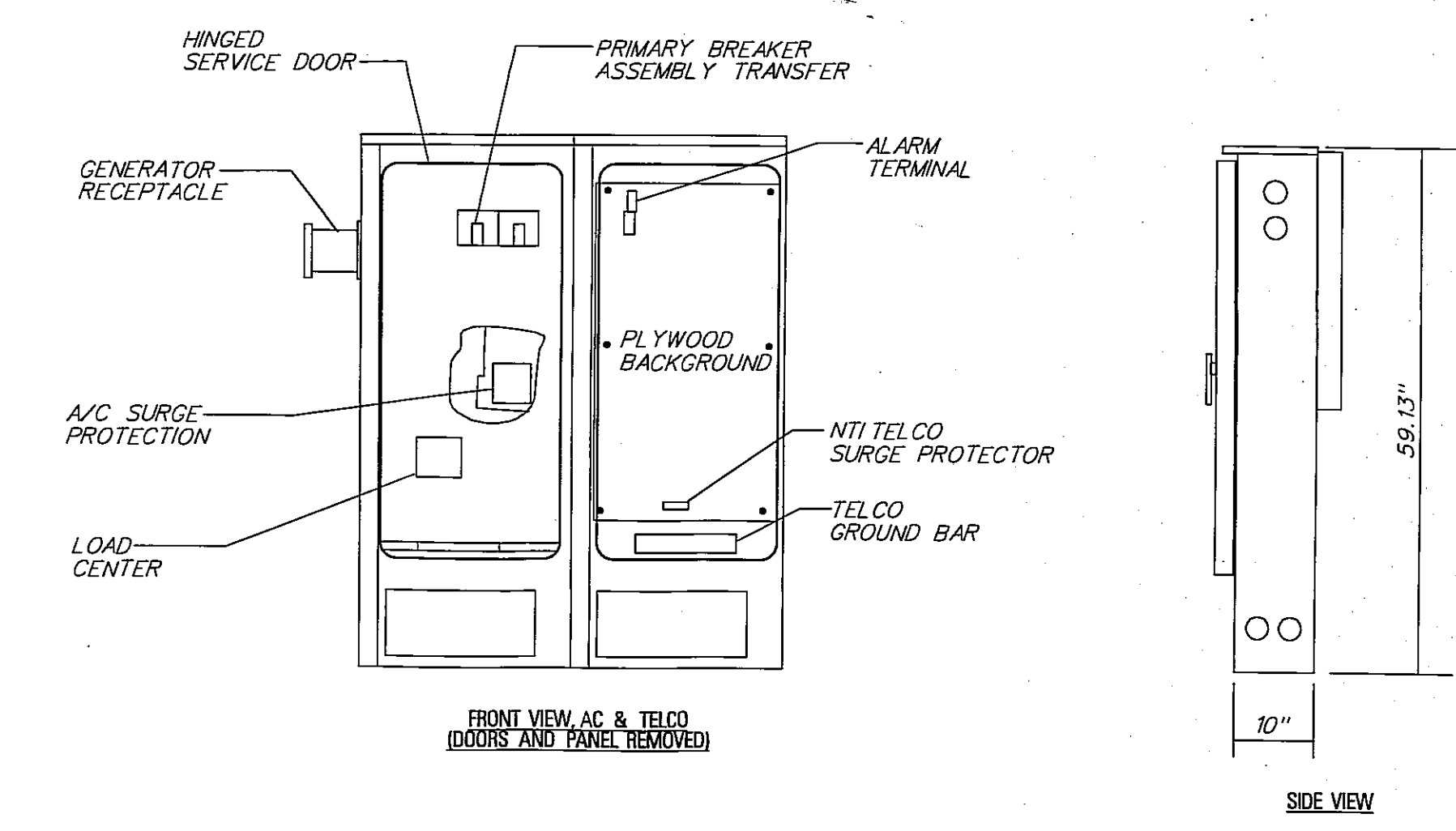
CONCRETE EQUIPMENT SLAB DETAILS
NOT TO SCALE

GENERAL STRUCTURAL NOTES

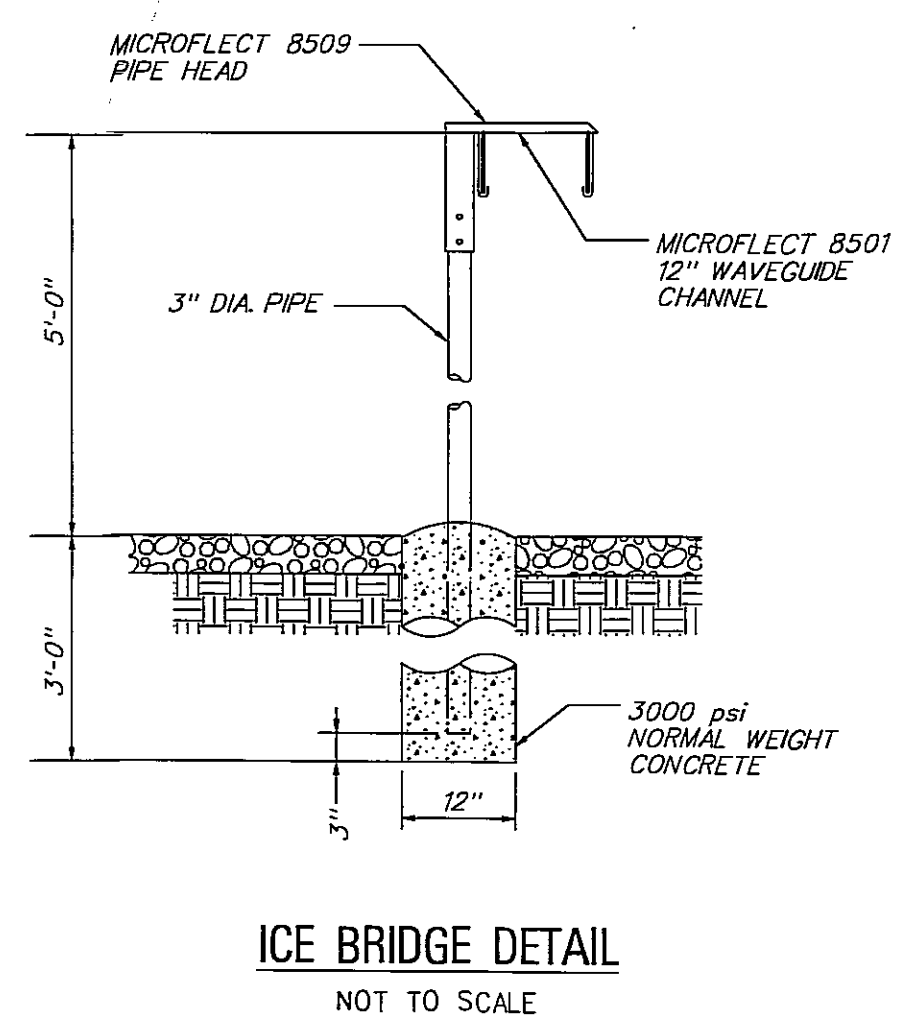
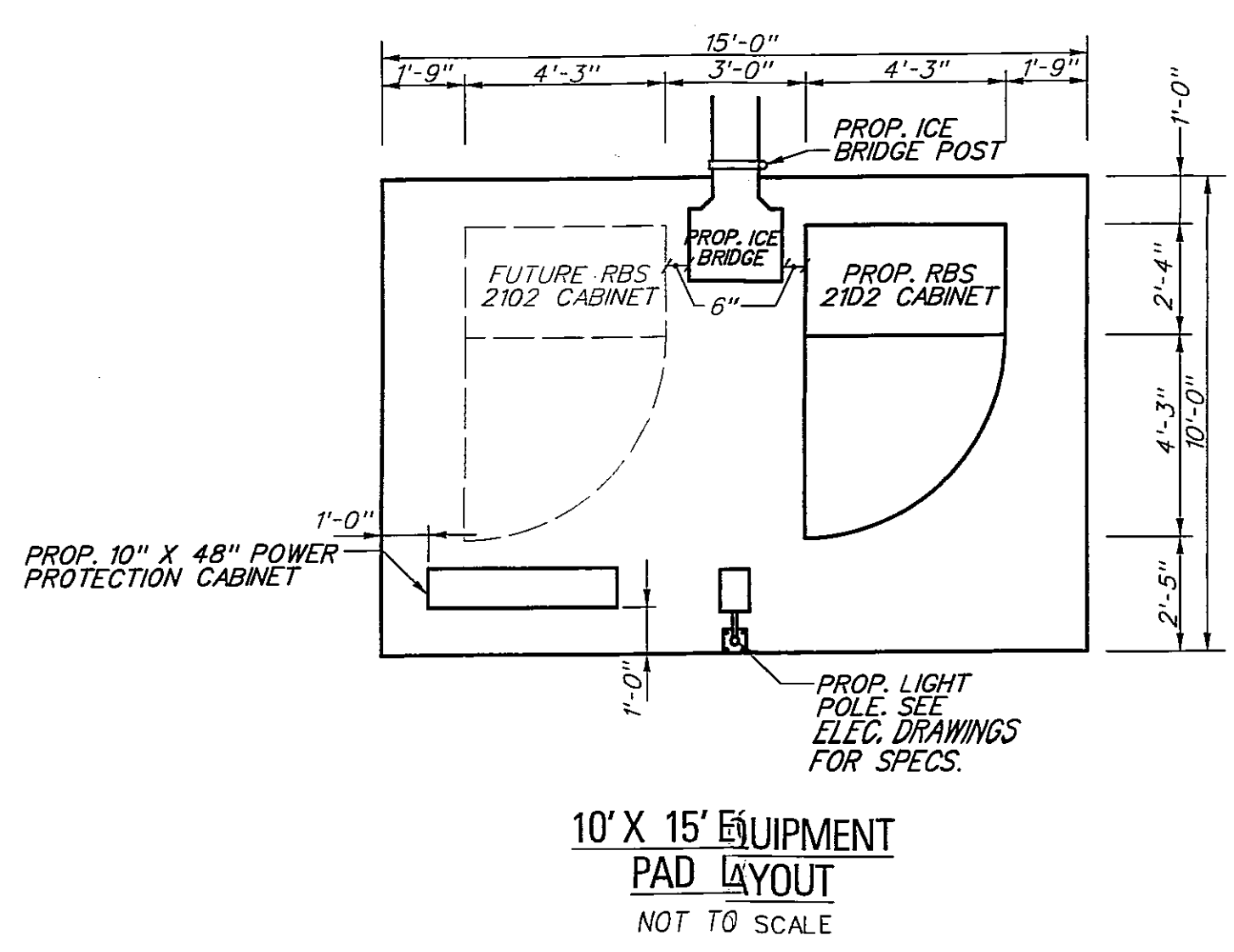
- SPECIFICATIONS / CODES:**
 - CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
 - STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, 9th EDITION.
 - WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-92 "STRUCTURAL WELDING CODE-STEEL."
 - REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE".
- MATERIALS:**
 - CONCRETE: $f_c' = 3000$ psi
 - REINFORCING STEEL: ASTM A 615, GRADE 60.
 - WIRE MESH: ASTM A 185
 - STRUCTURAL STEEL: ASTM A 36
 - ELECTRODES FOR WELDING: E 70xx
 - GALVANIZING: ASTM A 153
 - EXPANSION BOLTS: HILTI KWIK BOLT II, STAINLESS STEEL, $\frac{3}{4}$ " DIA. x $4\frac{3}{4}$ " EMBEDMENT, OR AN APPROVED EQUAL.
- GEOTECHNICAL:**
 - CONCRETE SLAB DESIGN IS BASED ON 2000 PSF SOIL BEARING CAPACITY. IF OTHER CONDITIONS EXIST, FOUNDATION SHALL BE REDESIGNED. CONTRACTOR SHALL HAVE SOIL BEARING CAPACITY VERIFIED BY A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES. DL-8,100 LBS.; LL-100 PSF.
 - ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY.



RBS 2102 EQUIPMENT CABINET
NOT TO SCALE

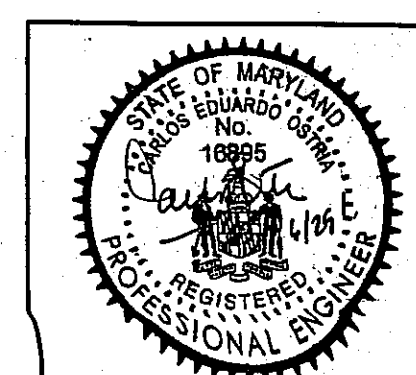


POWER PROTECTION CABINET DETAIL
NOT TO SCALE



ICE BRIDGE DETAIL
NOT TO SCALE

APPROVED
Montgomery County
Historic Preservation Commission



COMPOUND DETAILS

DRAWING NO.	C3
CHECKED BY	AK
DRAWN BY	AK
SUPERVISOR (TECHNOLOGIES)	
PROJECT NO.	1600013-74
SCALE	AS SHOWN
CAD FILE	1600013-74-C3.DWG

SITE WAN 162B
REDLAND-FRALEY FARM
UNMANNED WIRELESS COMMUNICATION SITE

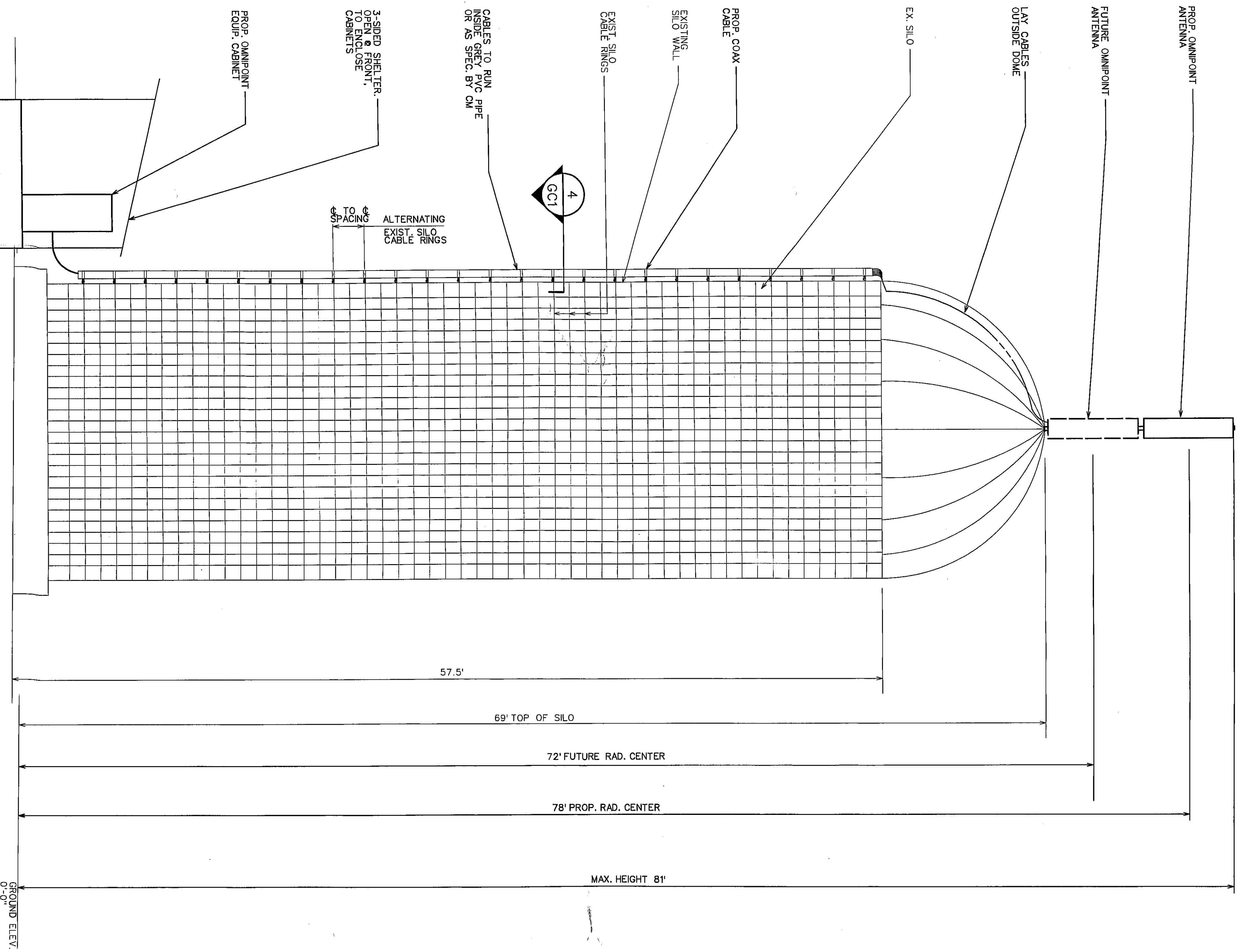
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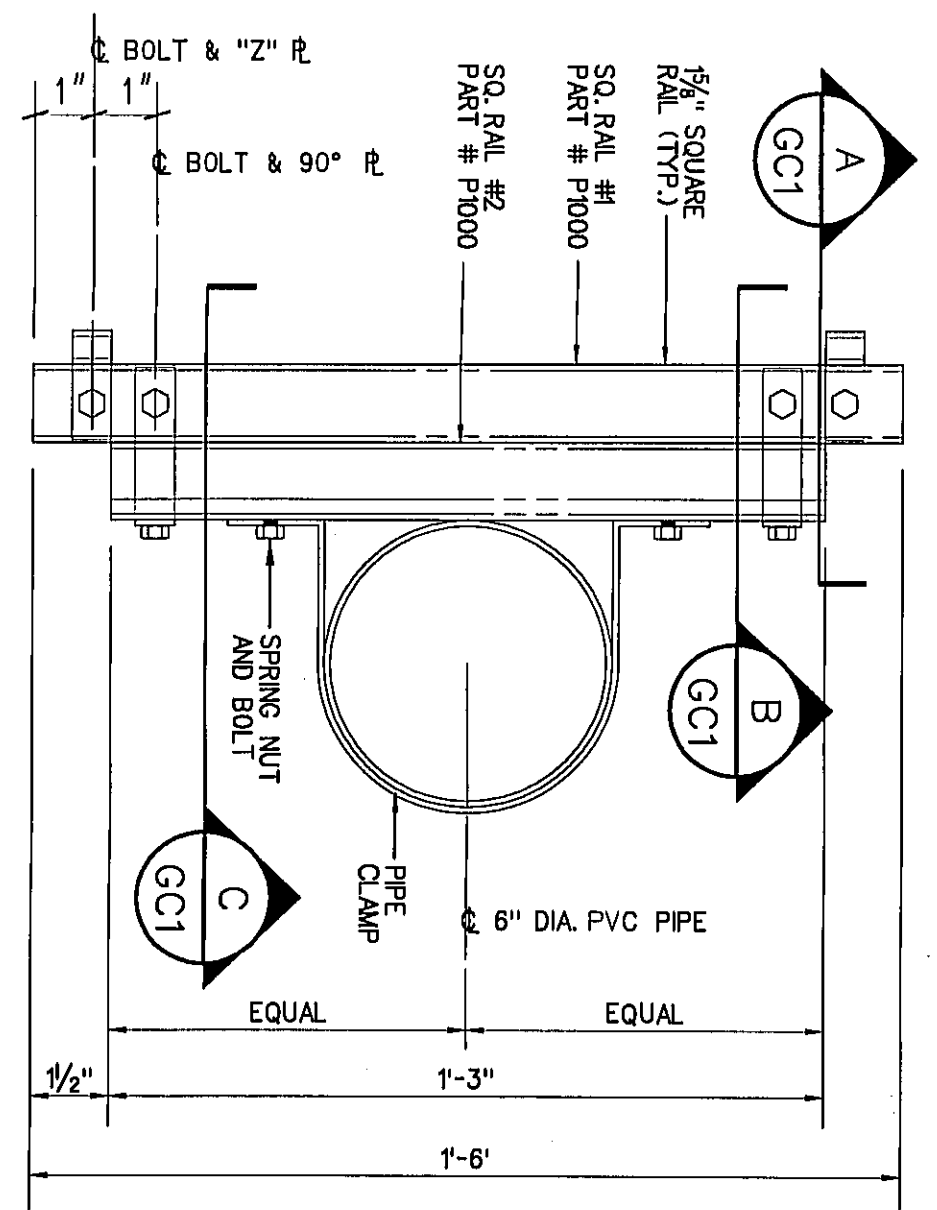
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1600013-74

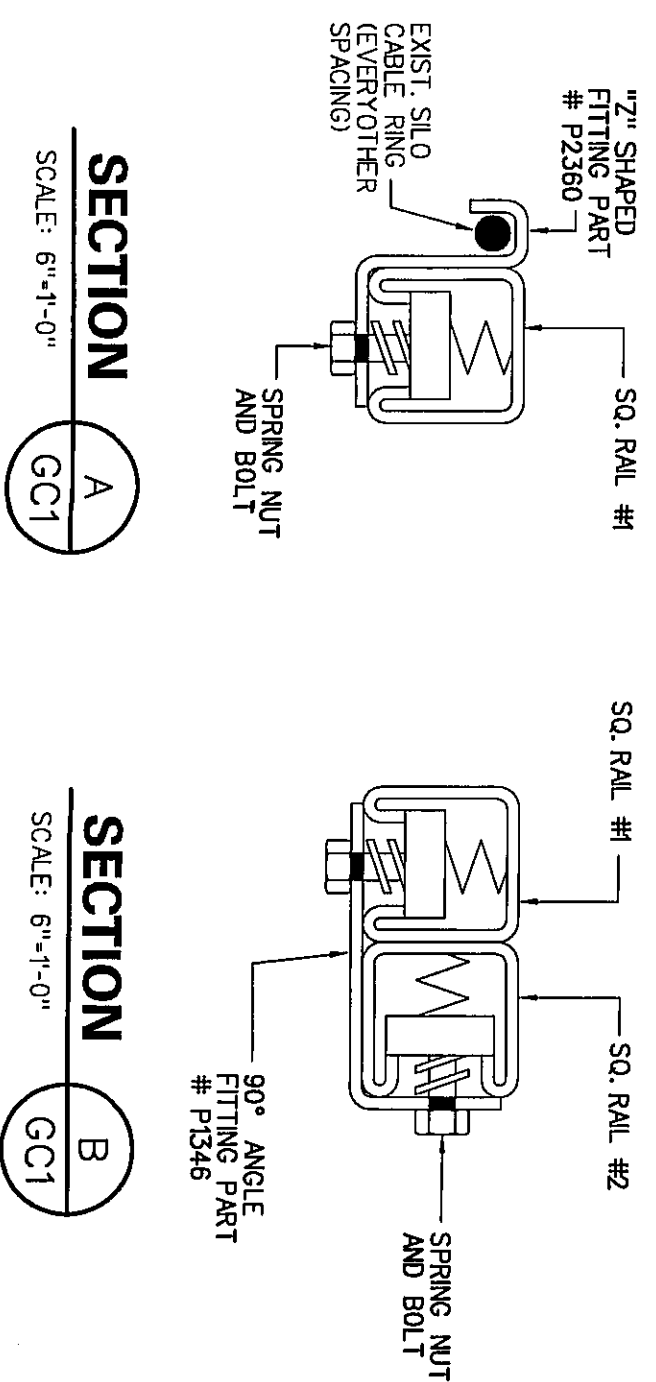
OMNIPONT COMMUNICATIONS CAP OPERATIONS, LLC
SITE WAN 162B
REDLAND-FRALEY FARM
17800 BOWE MILL ROAD
DERWOOD, MD 20855



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

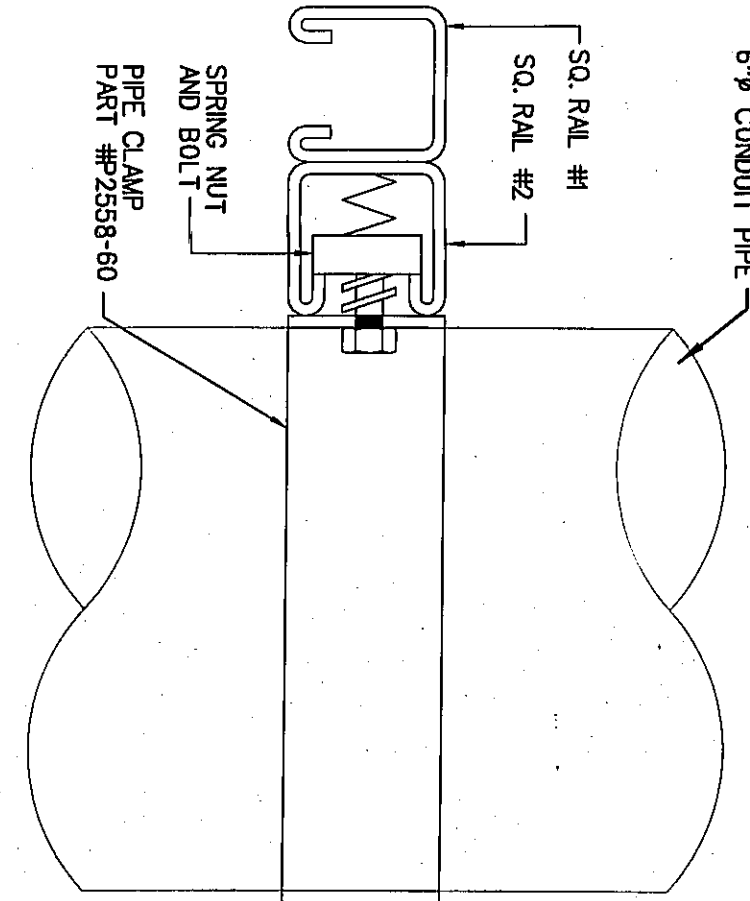


DETAIL 1
SCALE: 3/4" = 1'-0"
GCI



SECTION A
SCALE: 6" = 1'-0"
GCI

SECTION B
SCALE: 6" = 1'-0"
GCI



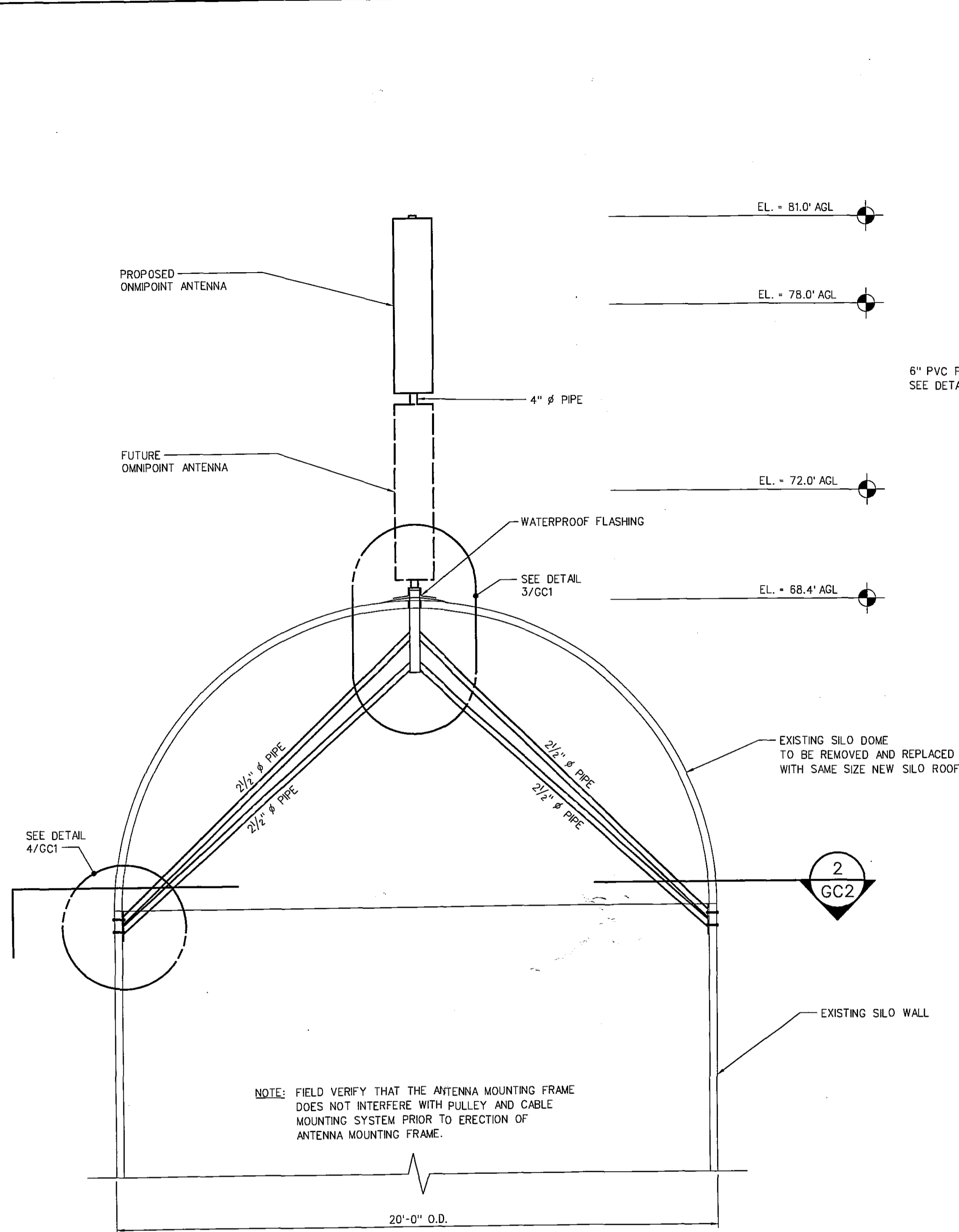
SECTION C
SCALE: 6" = 1'-0"
GCI

NOTE TO CONTRACTOR:
SOURCE RAILS & HANGERS TO BE OF ALL PART NO. S.-CONTRACT THOMAS PH. NO. (704) 522-0399 FAX NO. (704) 522-0414 CON. NO. (704) 522-2400

APPROVED
Historic Preservation Commission

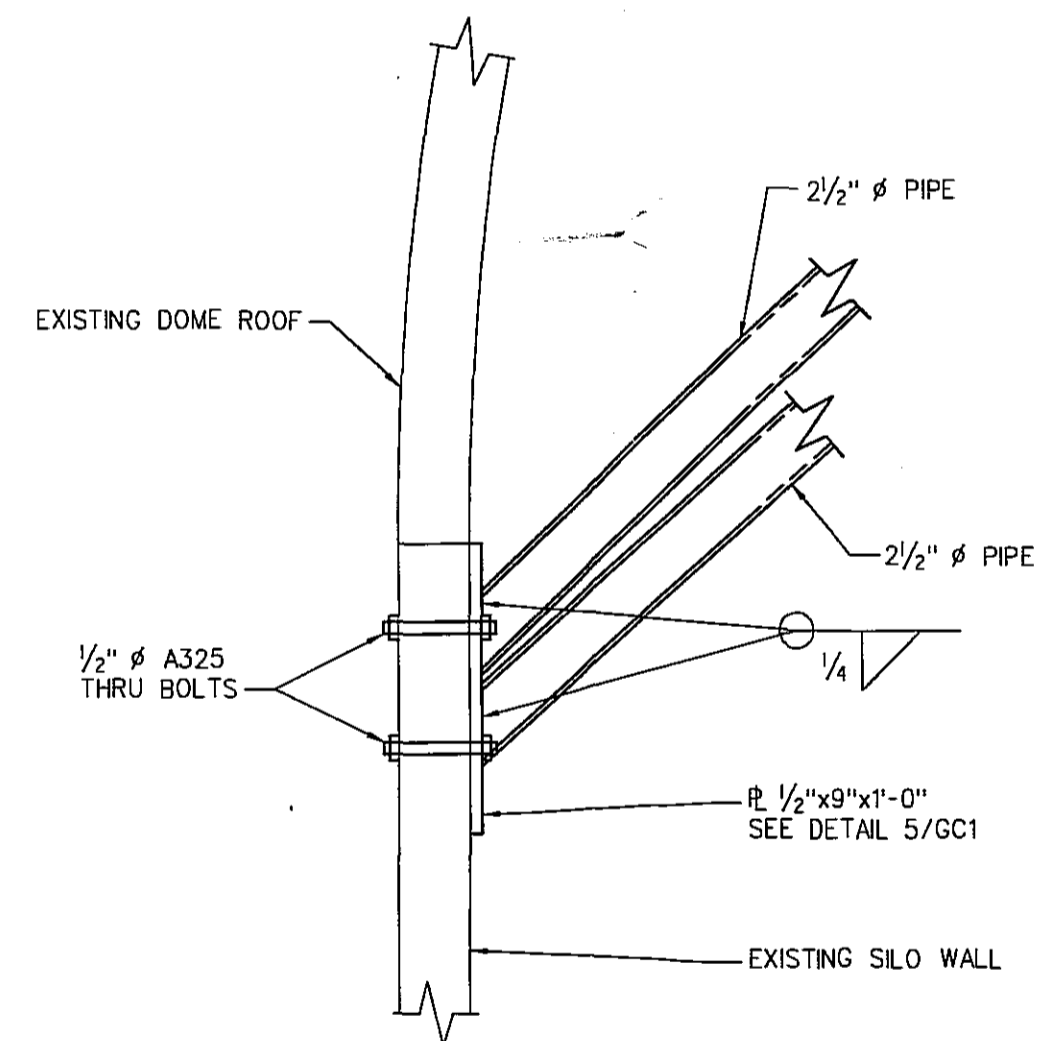


<p>OMNIPONT COMMUNICATIONS CAP OPERATIONS, LLC 1600013.74 SITE No. WAN 162-B FRALEY FARM</p>	<p>ISSUE DATE</p>	<p>ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS KCI TECHNOLOGIES 14409 Greenview Drive, Suite 102 Lauri, Maryland 20708 (301) 953-1821 (410) 792-8086 fax: (410) 792-7419</p>	<p>OMNIPONT COMMUNICATIONS CAP OPERATIONS, LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20705 (240) 264-8600 FAX: (240) 264-8610</p>	<p>PROJECT: SITE No. WAN 162-B FRALEY FARM UNMANNED WIRELESS COMMUNICATION SITE 17800 BOWIE MILL ROAD DERWOOD, MARYLAND 20855</p>	<p>DRAWING TITLE: SILO ELEVATION AND DETAILS</p>																																						
	<p>95% SUBMISSION 100% SUBMISSION PERMIT SUBMISSION</p> <p>SCHEDULE OF REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION OF CHANGES</th> <th>DRAWN BY</th> <th>AUTH. BY</th> <th>ISSUE STATUS</th> <th>ISSUE DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				NO.	DESCRIPTION OF CHANGES	DRAWN BY	AUTH. BY	ISSUE STATUS	ISSUE DATE																																	
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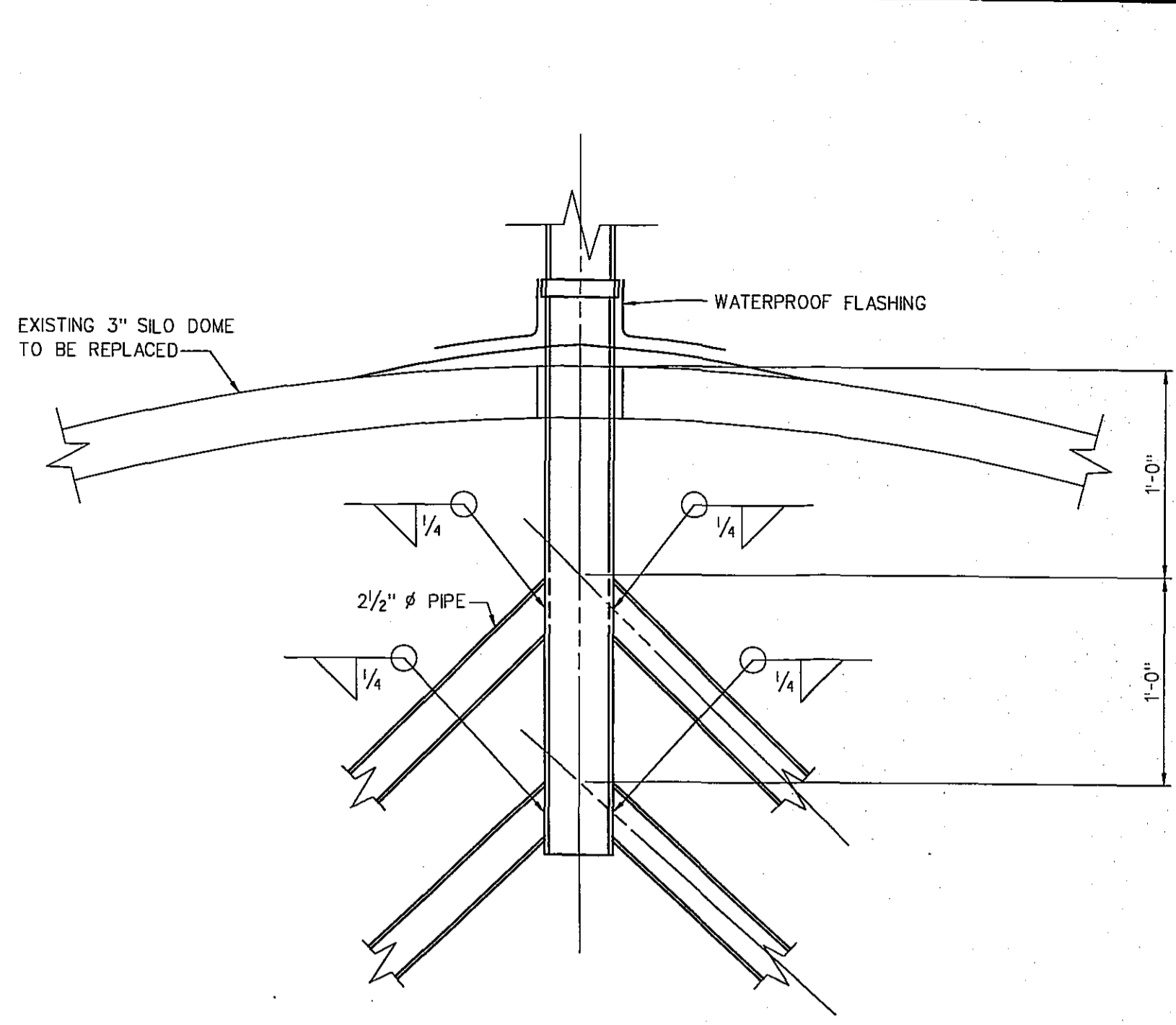


ANTENNA MOUNTING PLAN 2 GC2
SCALE: 3/8" = 1'-0"

ANTENNA MOUNTING DETAIL 1 GC2
SCALE: 3/8" = 1'-0"



DETAIL 4 GC2
SCALE: 1/2" = 1'-0"



DETAIL 3 GC2
SCALE: 1/2" = 1'-0"

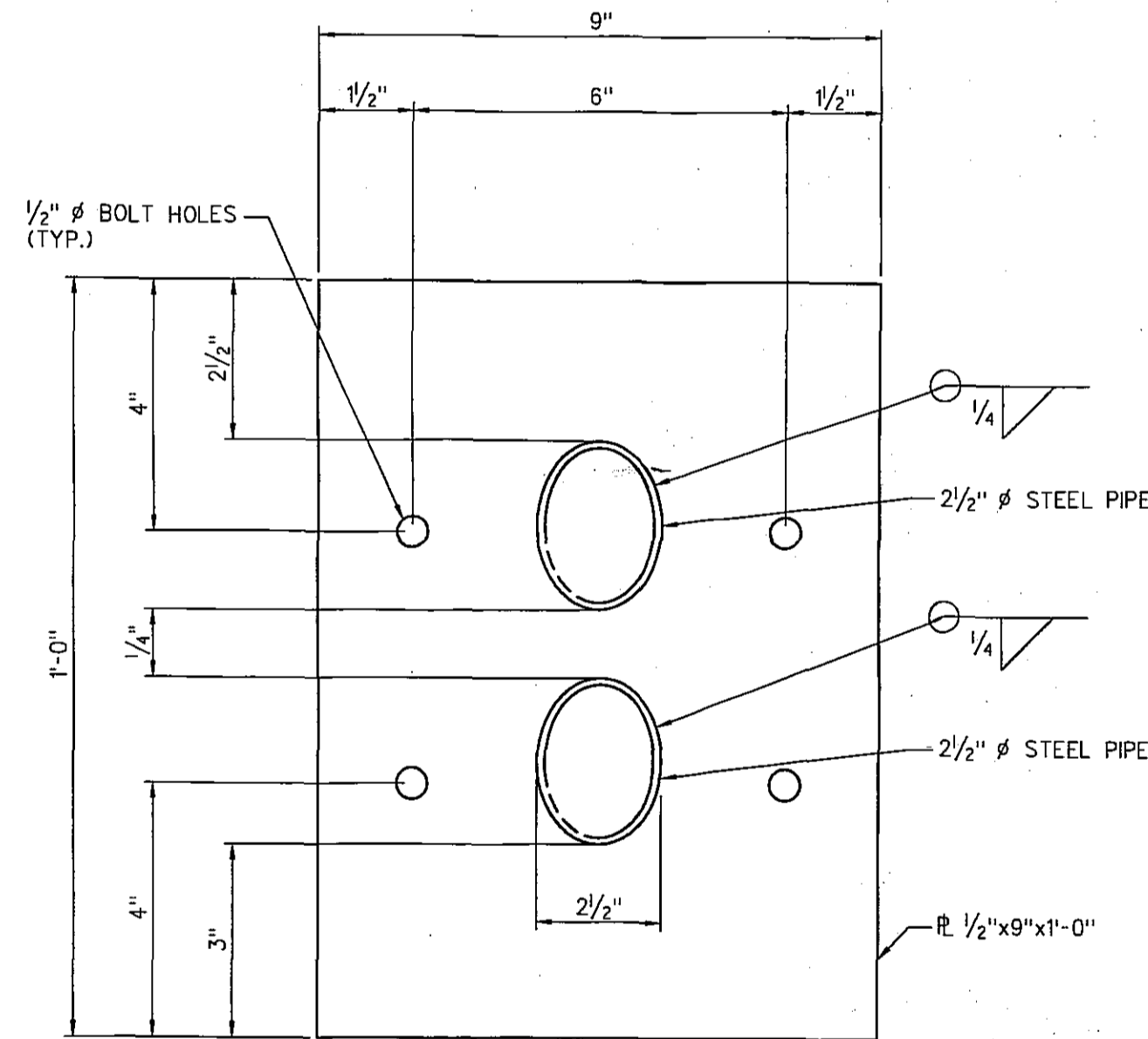


PLATE DETAIL 5 GC2
SCALE: 3/8" = 1"

APPROVED
Montgomery County
Historic Preservation Commission
[Signature]

RF SYSTEM SCHEDULE										
SITE NUMBER: WAN 169-C										
ANTENNA POSITION	ANTENNA SECTOR	TYPE OF ANTENNA	CABLE SCHEDULE			TAPE COLOR	ANTENNA DIRECTION	BEAM WIDTH	ELEC. DOWN TILT	SERIAL NUMBER
			COAX SIZE	RAD CENTER	EST. LENGTH					
1-M14(d)	15 DEGREE	ACCELERATOR	1/4"	78.0'	100'-0"	RED	RECEIVE	90 DEGREE	0 DEGREE	*
*	*	*	*	*	*	RED & WHITE	RECEIVE	90 DEGREE	0 DEGREE	*
2-M14(d)	15 DEGREE	ACCELERATOR	1/4"	72.0'	100'-0"	RED & RED	RECEIVE	90 DEGREE	0 DEGREE	*
(FUTURE)	*	*	*	*	*	RED/RED/YELLOW	RECEIVE	90 DEGREE	0 DEGREE	*
1-BK2(d)	135 DEGREE	ACCELERATOR	1/4"	78.0'	100'-0"	GREEN	RECEIVE	90 DEGREE	0 DEGREE	*
*	*	*	*	*	*	GREEN & WHITE	RECEIVE	90 DEGREE	0 DEGREE	*
2-BK1(d)	135 DEGREE	ACCELERATOR	1/4"	72.0'	100'-0"	GREEN & GREEN	RECEIVE	90 DEGREE	0 DEGREE	*
(FUTURE)	*	*	*	*	*	GREEN/GREEN/YELLOW	RECEIVE	90 DEGREE	0 DEGREE	*
1-DS1(d)	255 DEGREE	ACCELERATOR	1/4"	78.0'	100'-0"	BIKE	RECEIVE	90 DEGREE	0 DEGREE	*
*	*	*	*	*	*	BLUE & WHITE	RECEIVE	90 DEGREE	0 DEGREE	*
2-CK1(d)	255 DEGREE	ACCELERATOR	1/4"	72.0'	100'-0"	BLUE & BLUE	RECEIVE	90 DEGREE	0 DEGREE	*
(FUTURE)	*	*	*	*	*	BLUE/BLUE/YELLOW	RECEIVE	90 DEGREE	0 DEGREE	*

NOTES: 1. MECHANICAL DOWNTILT WILL BE FURNISHED LATER AS SYSTEM IS DEVELOPED.
2. ERICSSON WILL PROVIDE ANTENNA SERIAL NUMBER AFTER INSTALLATION.
3. ALL CHANGES TO THIS SCHEDULE SHOULD BE APPROVED BY OMNIPPOINT RF ENGINEERING.
4. CONTRACTOR TO PROVIDE A TOTAL OF 4 CABLE RUNS PER SECTOR.
5. CONTRACTOR TO PROVIDE (4) TMA'S - ERICSSON KRY T2 13/3, 2 PER SECTOR.

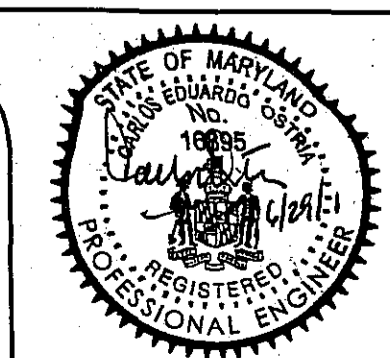
ANTENNA CONTRACTOR'S SCOPE OF WORK

1. ALL ANTENNA PIPE MASTS AND HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 123 AND A 153. PAINT TO MATCH EXTERIOR OF BUILDING.
2. ANTENNA CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORTS AS SHOWN ON THE DRAWINGS.
3. ANTENNA CONTRACTOR SHALL INSTALL ALL ANTENNAS AND COAXIAL CABLES FURNISHED BY OMNIPPOINT AS SHOWN ON THE DRAWINGS.
4. USE 1/2" DIA COAXIAL JUMPER CABLE BETWEEN ANTENNA CONNECTION AND COAXIAL CABLE TERMINATION. ATTACH CABLE TO PIPE MAST TO MINIMIZE VISIBILITY.
5. EXISTING CABLE ROUTING IS SCHEMATIC. ANTENNA CONTRACTOR SHALL DETERMINE THE SIMPLEST ROUTING AND PROVIDE SUPPORTS ON THE ROOF AT 4'-0" MAX. SPACING.
6. CONNECTION BETWEEN ANTENNA AND PIPE MOUNT SHALL BE DESIGNED AND FURNISHED BY THE CONTRACTOR.

GENERAL STRUCTURAL NOTES:

1. ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION (ALLOWABLE STRESS DESIGN), 9th EDITION. MATERIALS SHALL BE AS FOLLOWS:
SHAPES AND PLATES: ASTM TUBE: ASTM A500, GRADE C
PIPE: ASTM A 53, GRADE B
BOLTS: ASTM A 325
2. DESIGN LOADS:
WIND SPEED = 80 MPH
EXPOSURE = C
3. ALL WELDING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWS D11. STRUCTURAL WELDING CODE - STEEL, USING E/DXX ELECTRODES. ALL WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH AWS REQUIREMENTS.
4. STEEL ANTENNA SUPPORTS AND STRUCTURAL ACCESSORIES, SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123 OR ASTM 153 AS APPLICABLE. ALL FABRICATION IN ACCORDANCE WITH ASTM ANY OTHER AREAS WITH DAMAGED COATING AREAS OF FIELD WELDING AND BOLTING AND SSPC PAINT 20 GALVANIZING. REPAIR PAINTS SHALL BE FIELD REPAIRED WITH MANUFACTURER'S INSTRUCTIONS.

5. ALL DIMENSIONS AFFECTED BY THE GEOMETRICS AND/OR LOCATION OF THE EXISTING STRUCTURE ARE TO BE CHECKED IN THE FIELD BY THE CONTRACTOR BEFORE ANY CONSTRUCTION IS DONE AND BEFORE ANY MATERIAL IS ORDERED OR FABRICATED. NOTIFY THE ENGINEER WHERE OBSTRUCTIONS TO NEW CONSTRUCTION OCCUR BEFORE ANY CONSTRUCTION IS DONE AND BEFORE ANY MATERIAL IS ORDERED OR FABRICATED.
6. SUBMIT SHOP DRAWINGS FOR ALL STEEL WORK TO OMNIPPOINT PRIOR TO FABRICATION.
7. CONTRACTOR SHALL VERIFY CONSTRUCTIBILITY AND DELIVERABILITY OF ALL MATERIALS PRIOR TO START OF WORK. ANY REQUESTS FOR REVISIONS MUST BE SUBMITTED TO OMNIPPOINT BEFORE ANY MATERIAL IS ORDERED OR FABRICATED.
8. CONTRACTOR SHALL PREPARE AND SUBMIT TO OMNIPPOINT AS-BUILT, MARKED-UP DRAWINGS FOR ALL APPLICABLE CHANGES OR DEVIATIONS FROM CONTRACT DRAWINGS.
9. CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT THE PROJECT IN A SAFE MANNER SO THAT THE EXISTING STRUCTURE IS NOT DAMAGED IN ANY WAY. CONTRACTOR SHALL PERFORM ANY NECESSARY TESTING AND ENGAGE A QUALIFIED PROFESSIONAL TO PROVIDE CONSTRUCTION GUIDANCE. ALL DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION ENTIRELY AT THE CONTRACTOR'S EXPENSE.



ANTENNA MOUNTING PLAN, SECTIONS AND DETAILS

PROJECT: **SITE No. WAN 162-B FRALEY FARM**

UNMANNED WIRELESS COMMUNICATION SITE

17800 BOWIE MILL ROAD, DEWWOOD, MARYLAND 20855

OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC

12050 BALTIMORE AVENUE, BELTSVILLE, MD 20705
(240) 264-8600 FAX: (240) 264-8610

KCI TECHNOLOGIES

14409 Greenview Drive, Suite 102, Laurel, Maryland 20708
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ISSUE DATE: 01/11/10

95% SUBMISSION
100% SUBMISSION
PERMIT SUBMISSION

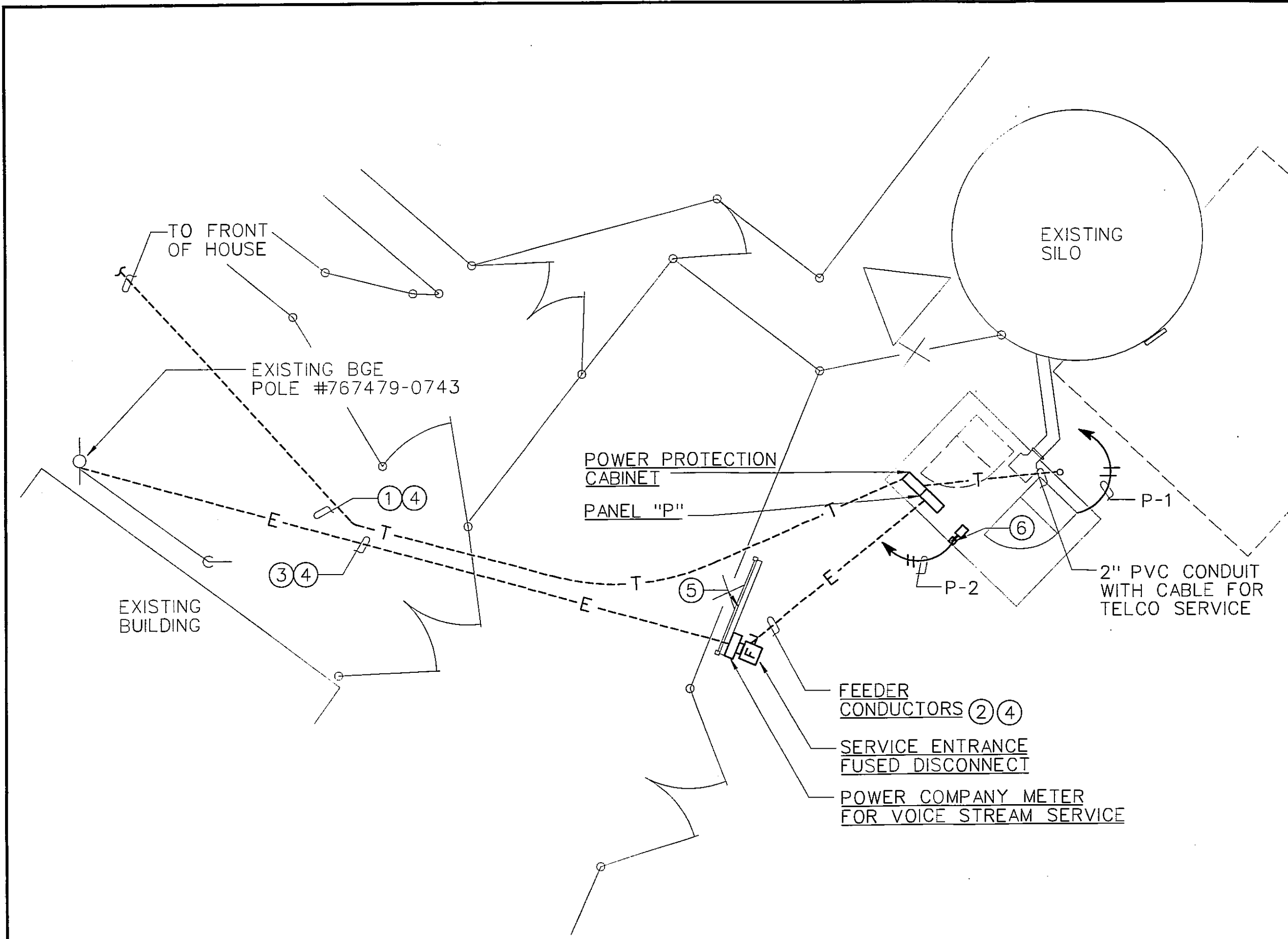
SCHEDULE OF REVISIONS

160013.74

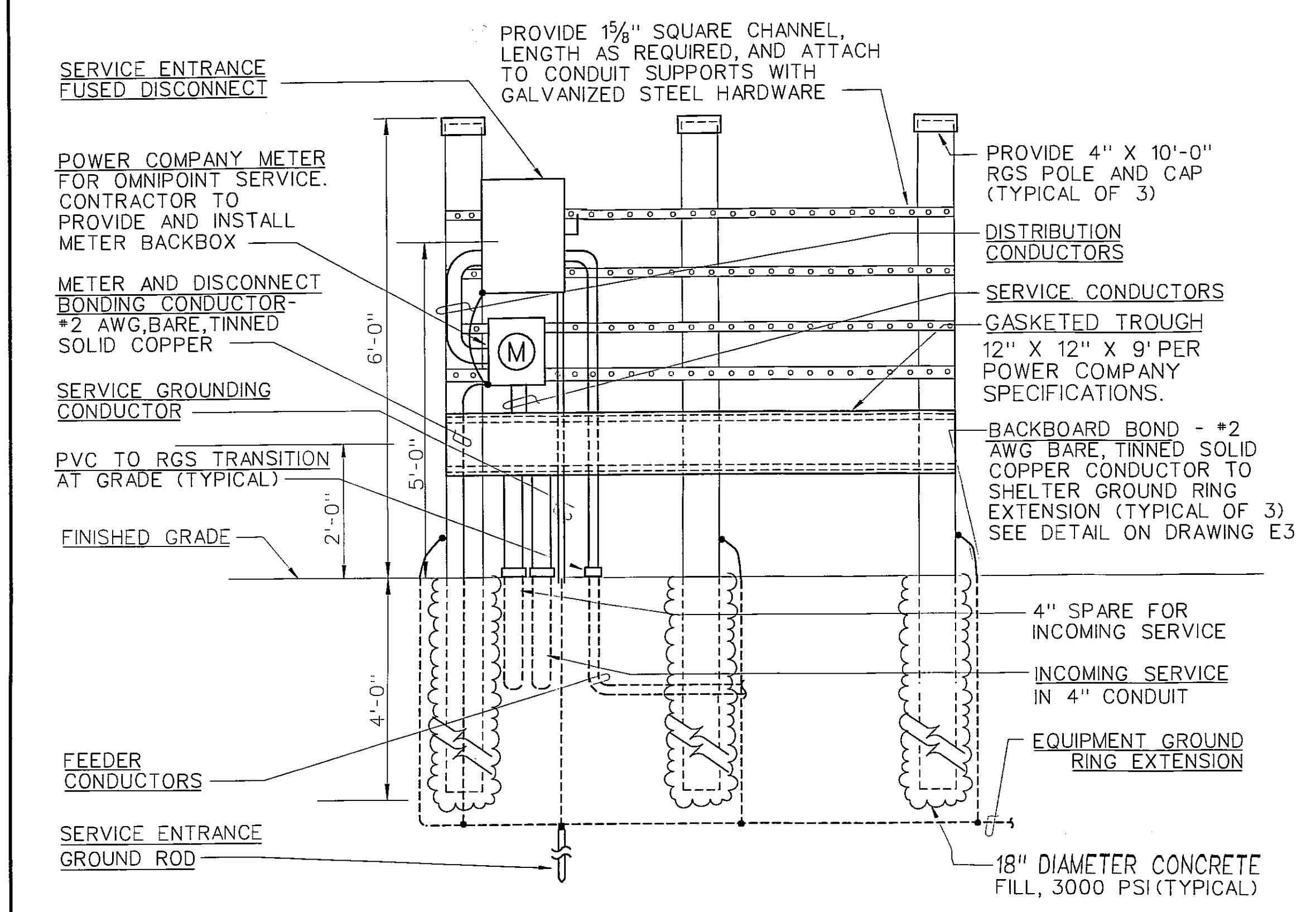
OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC

SITE No. WAN 162-B FRALEY FARM

17800 BOWIE MILL ROAD, DEWWOOD, MARYLAND 20855



POWER AND TELCO PLAN
SCALE = 1/8" = 1'-0"



ELEVATION = MULTIPLE METER BACKBOARD
NOT TO SCALE

LEGEND

- CONDUCTOR AS INDICATED IN PLAN
- BURIED GROUND/BONDING CONDUCTOR-SIZED AS INDICATED IN PLAN
- GROUND ROD
- BELOW GRADE OR EXPOSED BONDING CONNECTION (SEE GENERAL NOTE 8)
- GROUND TEST PIT
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND TELEPHONE CONDUIT
- SEE DRAWING NOTE OF SAME NUMBER
- POWER COMPANY METER

ABBREVIATIONS

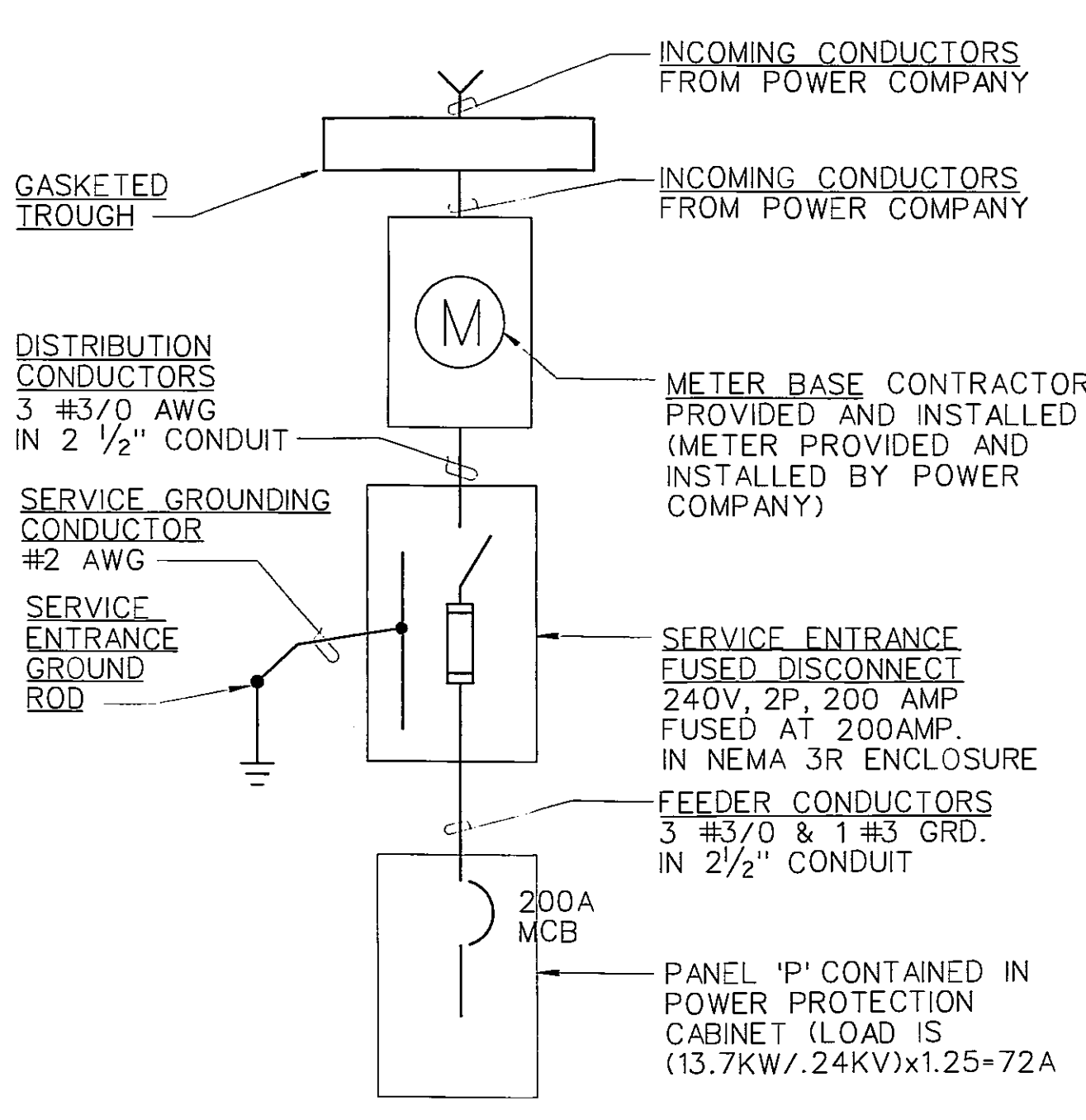
- AC - ALTERNATING CURRENT
- AFG - ABOVE FINISHED GRADE
- AWG - AMERICAN WIRE GAUGE
- AIC - AMPERES INTERRUPTING CAPACITY
- BFG - BELOW FINISHED GRADE
- BKR - BREAKER
- CAT. - CATALOG
- C, COND - CONDUIT
- CKT - CIRCUIT
- EMT - ELECTRICAL METALLIC TUBING
- EST. - ESTIMATED
- GRD - GROUND
- MCB - MAIN CIRCUIT BREAKER
- MGB - MASTER GROUND BAR
- NEC - NATIONAL ELECTRICAL CODE
- NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- No. - NUMBER
- PVC - POLYVINYL CHLORIDE
- RGS - RIGID GALVANIZED STEEL
- UL - UNDERWRITERS LABORATORIES

ELECTRICAL SPECIFICATIONS

- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE COMPLETE INSTALLATION AND OPERATION OF ALL ELECTRICAL WORK.
- B. CONFORM TO THE REQUIREMENTS OF ALL RULES, REGULATIONS, AND CODES OF LOCAL, STATE, AND FEDERAL AUTHORITIES HAVING JURISDICTION. CONFORM TO THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION LATEST EDITIONS.
- C. COORDINATE THE WORK OF ALL TRADES.
- D. THE CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ALL OFFSETS, BENDS AND FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. PROVIDE ALL SUCH ITEMS AS MAY BE REQUIRED TO FIT THE WORK TO THE CONDITIONS.
- E. MATERIAL AND EQUIPMENT INSTALLED AS A PART OF THE PERMANENT INSTALLATION SHALL BE NEW, UNLESS OTHERWISE INDICATED OR SPECIFIED, AND SHALL BE LISTED BY THE UNDERWRITER'S LABORATORY INC. FOR INSTALLATION IN EACH PARTICULAR CASE, WHERE STANDARDS HAVE BEEN ESTABLISHED.
- F. WIRE, UNLESS OTHERWISE INDICATED SHALL BE 600 VOLTS, TYPE THWN INSULATION. CONDUCTORS SHALL BE SIZED AND RUN AS INDICATED. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY.
- G. GUARANTEE THE COMPLETE ELECTRICAL SYSTEM FREE FROM ALL MECHANICAL AND ELECTRICAL DEFECTS FOR THE PERIOD OF ONE YEAR BEGINNING FROM THE DAY OF FINAL ACCEPTANCE OF THE WORK OR BENEFICIAL USE BY THE OWNER, WHICHEVER OCCURS FIRST.
- H. OBTAIN, PAY FOR, AND DELIVER ALL PERMITS, CERTIFICATES OF INSPECTION, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- I. CONTRACTOR SHALL COORDINATE ALL GROUNDING, POWER AND TELCO TERMINATIONS AT EQUIPMENT WITH EQUIPMENT INSTALLER PRIOR TO ROUGHING IN.
- J. PRIOR TO BEGINNING WORK CONTRACTOR SHALL COORDINATE ALL POWER AND TELEPHONE WORK. ALL CONTRACTOR WORK SHALL COMPLY WITH THE RULES AND REGULATIONS OF UTILITIES INVOLVED.
- K. ALL DIRECT BURIED CONDUITS SHALL BE SCHEDULE 40 PVC. ALL EXTERIOR CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR RIGID GALVANIZED STEEL (RGS) WHERE NOTED.
- L. TRENCHING FOR ALL CONDUITS SHALL BE MINIMIZED.

DRAWING NOTES

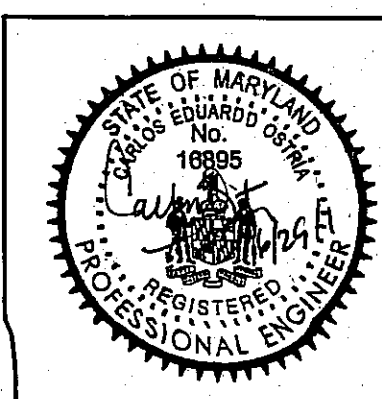
- ① EXTEND A 2" CONDUIT FROM TELCO BOX LOCATED IN FRONT OF THE FARMHOUSE (APPROXIMATELY 500'). CONTRACTOR SHALL PROVIDE AND INSTALL 2-6 PAIR, INDIVIDUALLY SHIELDED 24 GAUGE COPPER CABLE FOR TELCO SERVICE, PER OMNIPPOINT SPECIFICATIONS, FROM TELCO BOX TO EQUIPMENT VIA POWER PROTECTION CABINET. PROVIDE PULL BOXES AS REQUIRED.
- ② PROVIDE UNDERGROUND 1-2 1/2" CONDUIT WITH CONDUCTORS FROM SERVICE ENTRANCE DISCONNECT ON MULTIPLE METER BACKBOARD TO THE POWER PROTECTION CABINET. SEE "ONE-LINE DIAGRAM", ON THIS DRAWING, FOR NO. AND SIZE OF WIRES.
- ③ EXTEND 2 - 4" UTILITY CONDUITS FROM EXISTING BGE POLE #767479-0743 (APPR. 60') TO METER AND TERMINATE ACCORDING TO THE UTILITY COMPANY'S SPECIFICATIONS. ALL CONNECTIONS AND TERMINATIONS BY UTILITY COMPANY. SEE "ELEVATION EXISTING BACKBOARD", THIS DRAWING, FOR SERVICE REQUIREMENTS.
- ④ CONTRACTOR SHALL COORDINATE ALL TRENCHING ACTIVITIES WITH EXISTING BURIED GROUND AND UTILITY SYSTEMS. ANY CONTRACTOR CAUSED DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO OMNIPPOINT. ALL UNDERGROUND CONDUITS SHALL BE A MINIMUM OF 30" BFG. CONTRACTOR SHALL FIELD COORDINATE OMNIPPOINT UTILITIES TO EQUIPMENT PRIOR TO TRENCHING.
- ⑤ SEE "ELEVATION - MULTIPLE METER BACKBOARD" ON THIS DRAWING.
- ⑥ PROVIDE QUARTZ FIXTURE QL1505-L15 WITH S302 SLIP FITTER ON POLE NUMBER SSP410IPOM51 AS MANUFACTURED BY HUBBELL. ATTACH MOTION DETECTOR PSWM-140-B @ 6' AFG AS MANUFACTURED BY HUBBELL.



ONE-LINE DIAGRAM
NOT TO SCALE

SCHEDULE OF PANEL 'P'					
MINIMUM 22,000 AIC*		120/240 VOLTS, 1PHASE, 3 WIRE		NEMA 3R 200A MCB	
CKT. NO.	EQUIPMENT SERVED	PHASE & VOLTS	CKT. BKR. & TRIP	WIRING NO.	SIZE (COND)
1	CABINET NO.1	∅240V	2 40	3 1 8	10 1"
2	LIGHT FIXTURE	∅120V	1 20	2 1 12	12 3/4"
3	SPARE	∅120V	1 20	-	-
4	FUTURE CABINET NO. 2	∅240V	2 40	-	-
5	SPARE	∅120V	1 20	-	-
6-28	SPACE	-	1 -	-	-

APPROVED
Montgomery County
Historic Preservation Commission



DRAWING TITLE: POWER AND TELCO

SITE WAN 162B REDLAND-FRALEY FARM UNMANNED WIRELESS COMMUNICATION SITE

DRAWN BY: ATC

CHECKED BY: AND

PROJECT NO.: 1600013-74

SCALE: AS SHOWN

ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS

14408 Green Valley Drive, Suite 102
Lanham, Maryland 21086
(301) 953-8821 (410) 792-8096
(301) 953-8821 (410) 792-7419
www.kci.com

ISSUE DATE

SUBMISSION 05-31-01

100% SUBMISSION 06-21-01

PERMIT SUBMISSION 06-27-01

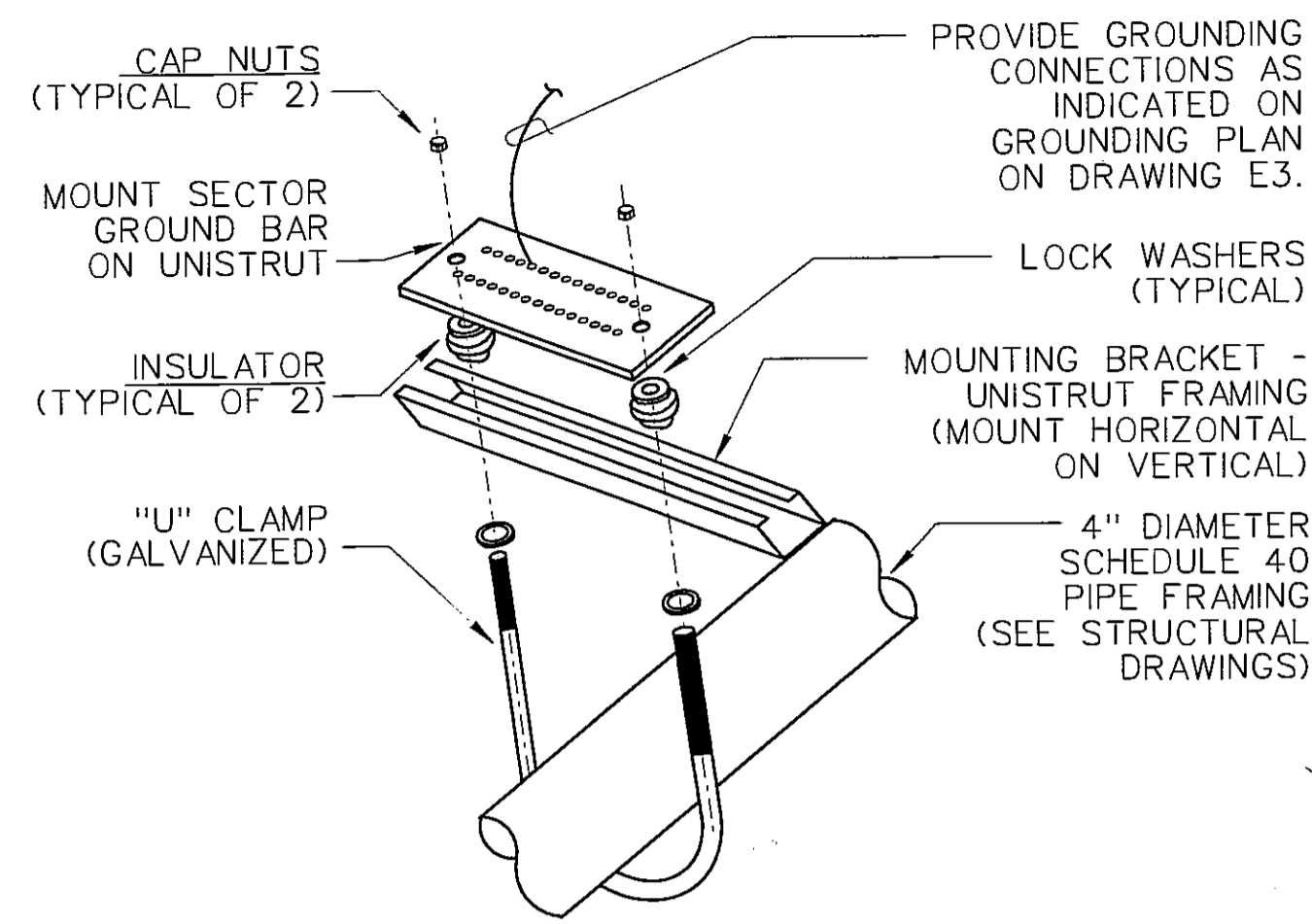
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1600013-74

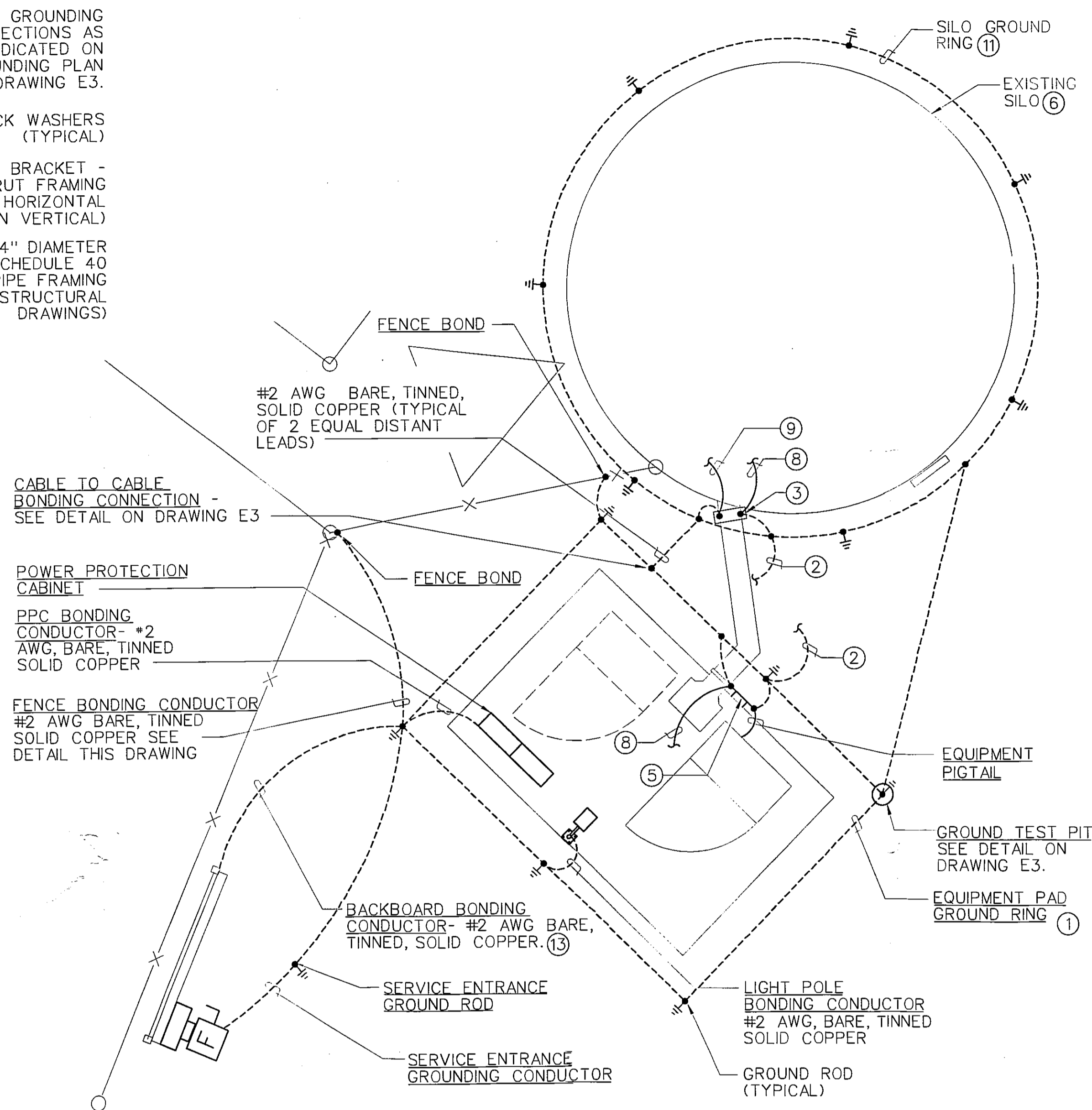
OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC

17800 ROWE MILL ROAD
SERVICEMO, MD 20855

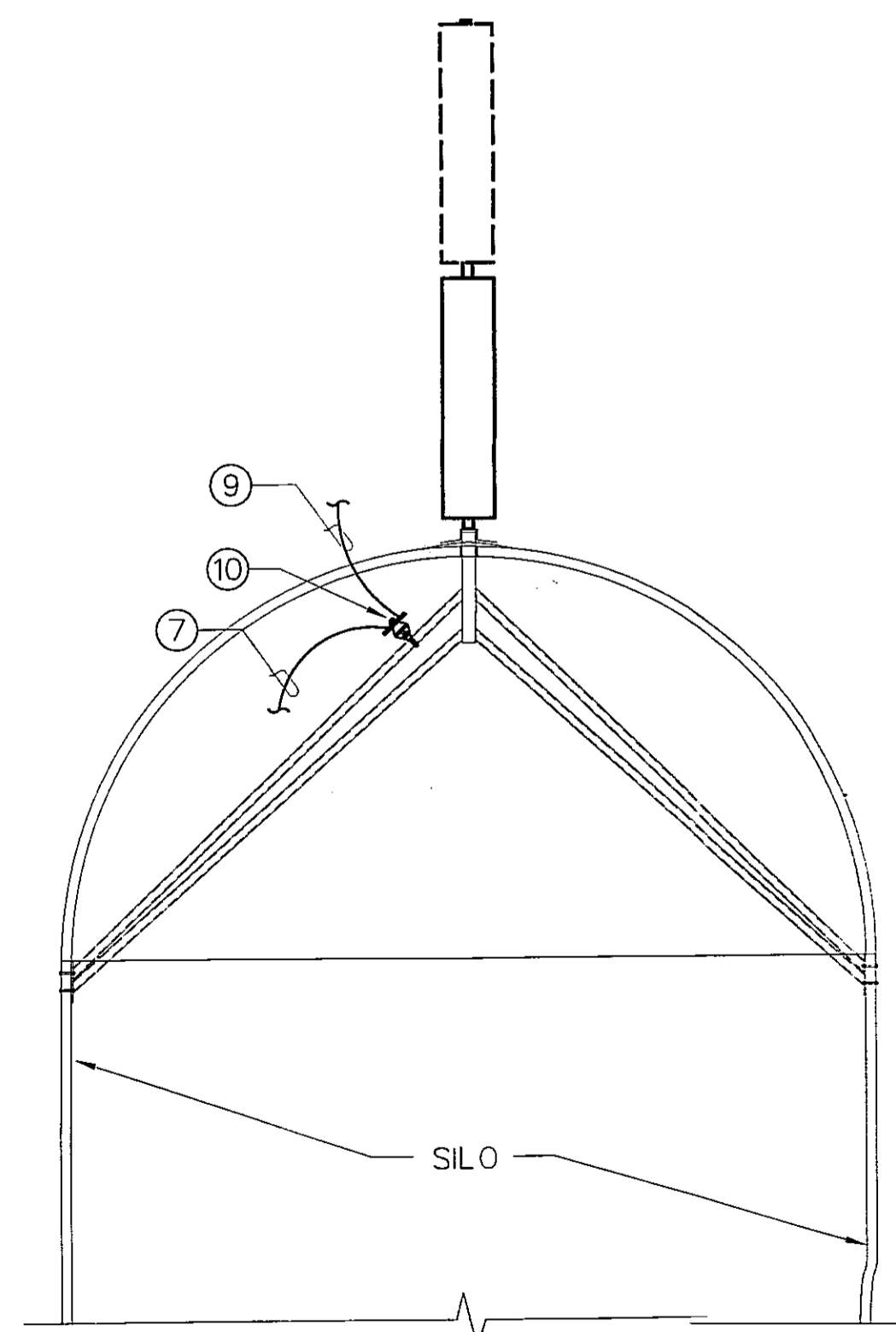
SITE WAN 162B REDLAND-FRALEY FARM



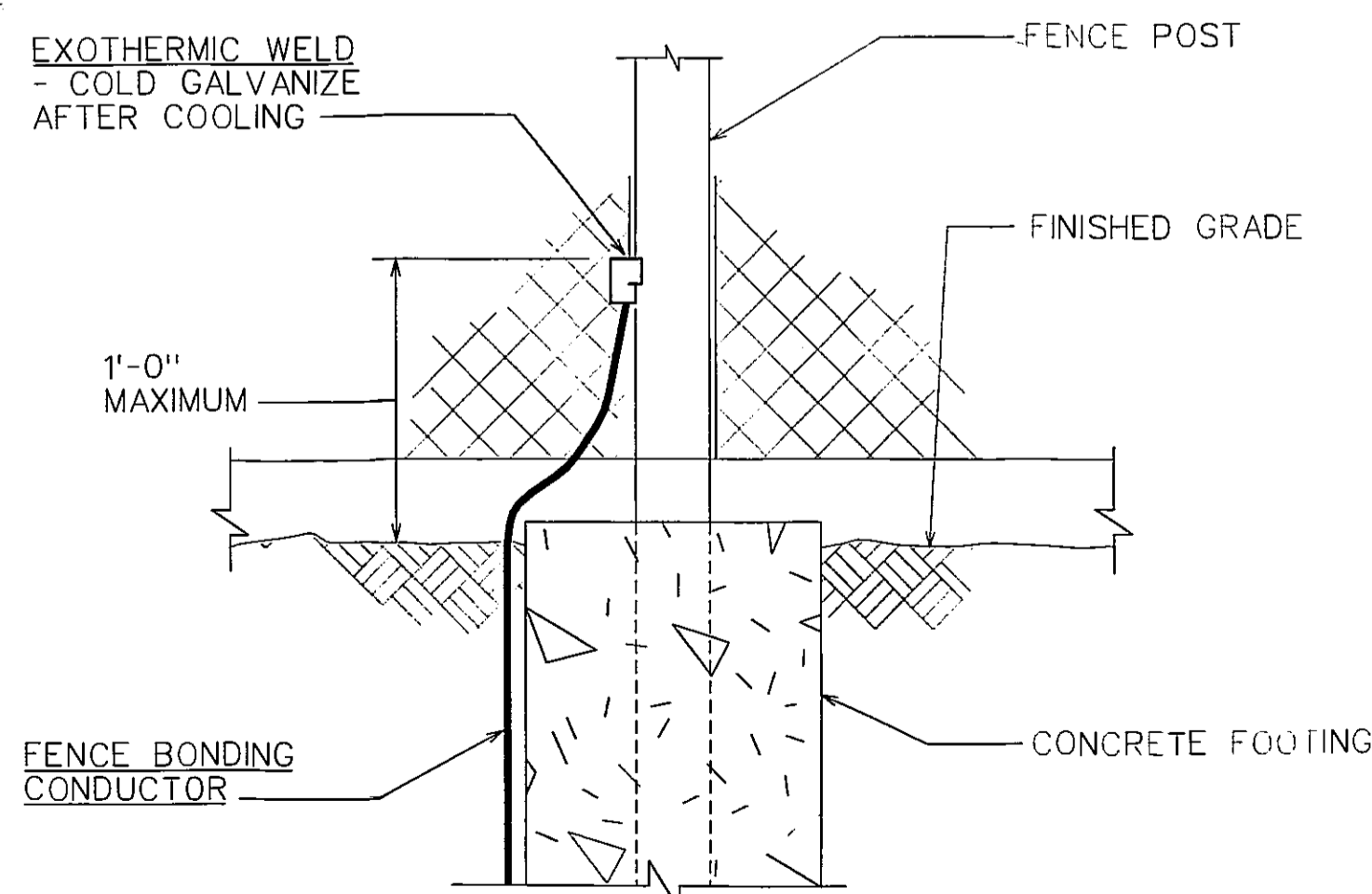
NOTE: DISSIMILAR METALS MUST BE PROTECTED WITH A COATING OF NO-OX COMPOUND.
DETAIL - ANTENNA GROUND BAR MOUNTING IN SILO
 NOT TO SCALE



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



DETAIL - ANTENNA GROUND BAR MOUNTING
 NOT TO SCALE



NOTE: INSTALLATION SHALL BE SIMILAR FOR BONDING TO ICE BRIDGE POST, AND ELECTRICAL BACKBOARD.
DETAIL - FENCE BONDING
 NOT TO SCALE

GENERAL GROUNDING NOTES:

1. COAXIAL ANTENNA CABLES SHALL BE GROUNDED BY PROVIDING ANDREW CORPORATION 36" GROUNDING CABLE REQUIRING FIELD ATTACHABLE CRIMP ON TWO HOLE LUGS. GROUNDING CABLE SHALL BE FIELD CUT TO SHORTEST LENGTH POSSIBLE WHILE MAINTAINING THE STRAIGHTEST POSSIBLE ROUTE TO GROUND BUS. CONNECTIONS TO GROUND BAR SHALL NOT BE DOUBLED-UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR ARE PERMITTED.
2. ALL BENDS IN PROTECTION GROUNDING CONDUCTORS SHOULD BE MADE WITH THE GREATEST PRACTICAL RADIUS AND SHOULD NOT BE LESS THAN ONE (1) FOOT. WHEN THE ONE (1) FOOT MINIMUM IS NOT PRACTICAL, THE MINIMUM SHALL NOT BE LESS THAN SIX (6) INCHES.
3. USE OF 90° BENDS IN PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
4. ALL CONNECTIONS TO SECTOR AND MGB GROUND BAR SHALL BE MADE INCORPORATING LONG BARREL TWO(2) HOLE CRIMP TYPE LUG CONNECTORS. ALL BONDING CONNECTIONS SHALL BE MADE USING STAINLESS STEEL NUTS AND BOLTS. CORROSION INHIBITOR SHALL BE APPLIED BETWEEN NUTS AND BOLTS AND GROUND BUS.
5. GROUND RODS SHALL BE 5/8" x 10'-0" MINIMUM COPPER CLAD STEEL. GROUND RODS SHALL BE LOCATED ON 10'-0" CENTERS.
6. ALL BELOW-GRADE CONNECTIONS SHALL BE EXOTHERMIC WELD TYPE. EXOTHERMIC WELD CONNECTIONS SHALL ALSO BE REQUIRED WHERE INDICATED. ALL BELOW-GRADE EXOTHERMIC WELD CONNECTIONS SHALL BE MADE USING ERICO CADWELD "ONE-SHOT" CONNECTIONS. ALL EXPOSED EXOTHERMIC WELD CONNECTIONS SHALL BE SPRAYED WITH COLD-GALVANIZED AFTER COOL DOWN.
7. WHEN A BELOW-GRADE CONNECTION IS REQUIRED AT A LOCATION IN WHICH A 10'-0" GROUND ROD HAS NOT BEEN PROVIDED, A 1'-0" SECTION OF GROUND ROD SHALL BE USED. THIS METHOD WILL ASSURE THAT ALL BELOW-GRADE CONNECTIONS CAN BE ACCOMPLISHED USING ERICO CADWELD "ONE SHOT" MOLDS. REFER TO "DETAIL - CABLE TO CABLE BONDING CONNECTION".
8. GROUND ROD SHIELD SHALL BE USED WHEN DRIVING GROUND RODS TO PREVENT THE ENDS FROM "MUSHROOMING." GROUND RODS SHALL BE DRIVEN STRAIGHT DOWN (90° FROM FINISHED GRADE). WHEN SOIL CONDITIONS PREVENT DRIVING GROUND RODS STRAIGHT, RODS MAY BE DRIVEN AT A 45° ANGLE FROM FINISHED GRADE. TOPS OF GROUND RODS SHALL BE THE SAME DEPTH AS GROUND RINGS (A MINIMUM OF 30" BELOW FINISHED GRADE).
9. ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE SO THAT THE BOLT HEAD IS ON THE FRONT FACE OF THE BUS. THE FRONT FACE OF THE BAR SHALL BE CONSIDERED THE SIDE AWAY FROM THE SILO OR THE SIDE CLOSEST TO THE ICE BRIDGE.
10. THE MAXIMUM RESISTANCE OF THE COMPLETED GROUNDING SYSTEM SHALL NOT EXCEED 5 OHMS ON ANY PART OF THE SYSTEM. IF, DUE TO SOIL CONDITIONS OR THE OTHER PARAMETERS, THIS MAXIMUM VALUE IS EXCEEDED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS.

DRAWING NOTES:

1. EQUIPMENT PAD GROUND RING. #2 AWG, BARE, TINNED, SOLID COPPER 30" BFG. PROVIDE GROUND RING AT 2'-0" OUTSIDE EQUIPMENT PAD AND 30" BFG.
2. PROVIDE BONDING CONNECTION TO ICE BRIDGE POST. SEE "DETAIL - ICE BRIDGE MOUNTED GROUND BAR" DETAIL ON DRAWING E3. PROVIDE AT EACH ICE BRIDGE POST. (TWO SHOWN). #2 AWG, BARE, TINNED, SOLID COPPER. (30" BFG).
3. COORDINATE INSTALLATION OF ICE BRIDGE MOUNTED GROUND BAR WITH COAXIAL ANTENNA CABLE EXIT FROM SILO. PROVIDE MGB BONDING CONDUCTORS - #2 AWG, BARE, TINNED, SOLID COPPER GROUND TO SILO GROUND RODS (2 PLACES) AND CONNECT.
4. NOT USED
5. EQUIPMENT GROUND BAR. FOR MOUNTING SEE "DETAIL - MGB GROUND BAR MOUNTING" ON DRAWING E3.
6. FOR ANTENNA PROTECTION GROUNDING REQUIREMENTS, SEE "DETAIL - COAXIAL ANTENNA CABLE GROUNDING AND GROUND BAR CONNECTIONS", ON DRAWING E3. FOR ROUTING, LOCATION, AND CONNECTION SEE "ANTENNA GROUND BAR MOUNTING" ON DRAWING E3.
7. PROVIDE BONDING CONNECTION OF ANTENNA GROUNDING SYSTEM TO ICE BRIDGE MOUNTED GROUND BAR. ROUTE #2 INSULATED, STRANDED COPPER DOWN SILO LEG WITH COAX CABLES. FOR CONTINUATION SEE DRAWING NOTE 8 ON THIS DRAWING. FOR INSTALLATION SEE "ANTENNA GROUND BAR MOUNTING", ON DRAWING E3.
8. #2 AWG INSULATED STRANDED COPPER BONDING CONDUCTOR CONTINUED FROM DRAWING NOTE 7, ON THIS DRAWING. FOR INSTALLATION SEE "ANTENNA GROUND BAR MOUNTING", ON DRAWING E3.
9. PROVIDE BONDING CONNECTION TO OUTER CONDUCTOR OF COAXIAL ANTENNA CABLE (TYPICAL OF 3 AT ICE BRIDGE MOUNTED GROUND BARS AND AT ANTENNA GROUND BAR, WITH PROVISION FOR 3 FUTURE.). SEE GENERAL GROUNDING NOTE NO. 1. PROVIDE CONNECTION PRIOR TO CABLES TURNING HORIZONTAL AT BASE OF SILO AND AT ANTENNA GROUND BAR PROVIDE CONNECTION WITHIN 10'-0" OF ANTENNA.
10. COORDINATE EXACT ANTENNA GROUND BAR MOUNTING AND LOCATION WITH STRUCTURAL DRAWINGS. MOUNT ANTENNA GROUND BAR ON MOLDED POLYESTER FIBERGLASS INSULATORS. SEE DETAIL "ANTENNA GROUND BAR MOUNTING" ON THIS DRAWING.
11. SILO GROUND RING - PROVIDE AT 30" BFG AND 2'-0" OUTSIDE OF FOUNDATION CAISSON.
12. SILO BOND - SEE DETAIL THIS DRAWING.
13. MULTIPLE-METER BACKBOARD BONDING - FOR ELECTRICAL COMPONENTS AND BONDING DETAILS SEE "ELEVATION - MULTIPLE METER BACKBOARD" ON DRAWING E1.

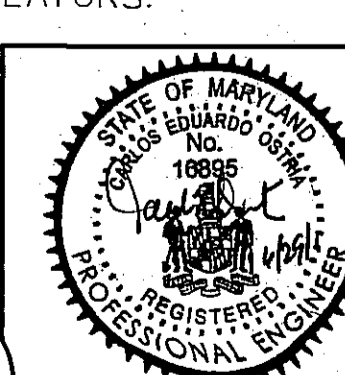
DRIVING TITLE:	GROUNDING
DATE:	05-31-01
SCALE:	E2
PROJECT NO.:	1600013-74
SCALE AS SHOWN:	
DATE FILED:	06-21-01

**SITE WAN 162B
 REDLAND-FRALEY FARM
 UNMANNED WIRELESS COMMUNICATION SITE**

OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC
 10350 BALTIMORE AVENUE
 BELTSVILLE, MD 20705
 (240) 264-8600 FAX: (240) 264-8610
 www.omnippoint.com

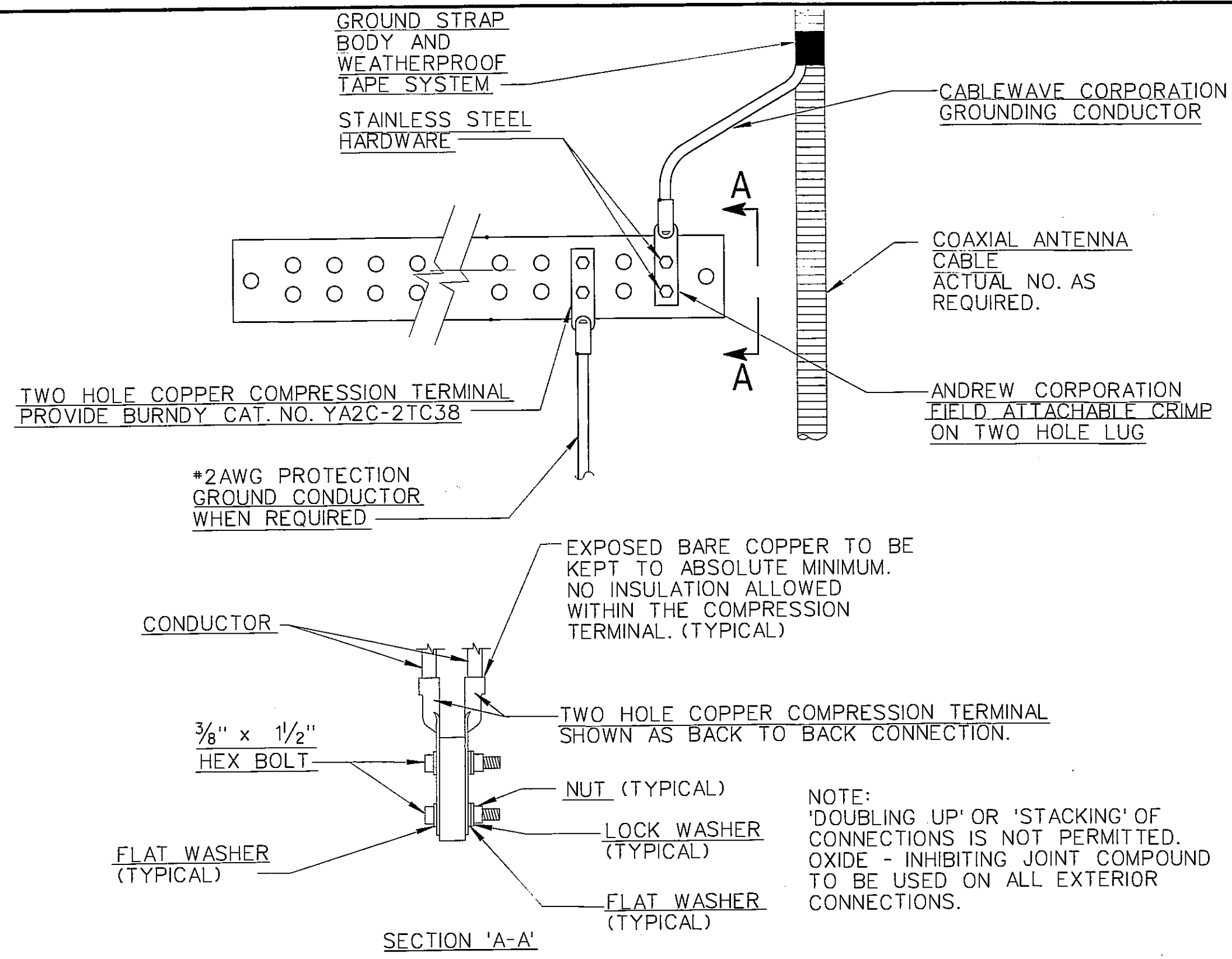
KCI TECHNOLOGIES
 ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
 14409 Greenway Drive, Suite 102
 Laurel, Maryland 20708
 (303) 958-1881 (410) 792-8086
 Fax: (410) 792-7419
 www.kci.com

APPROVED
 Montgomery County
 Historic Preservation Commission

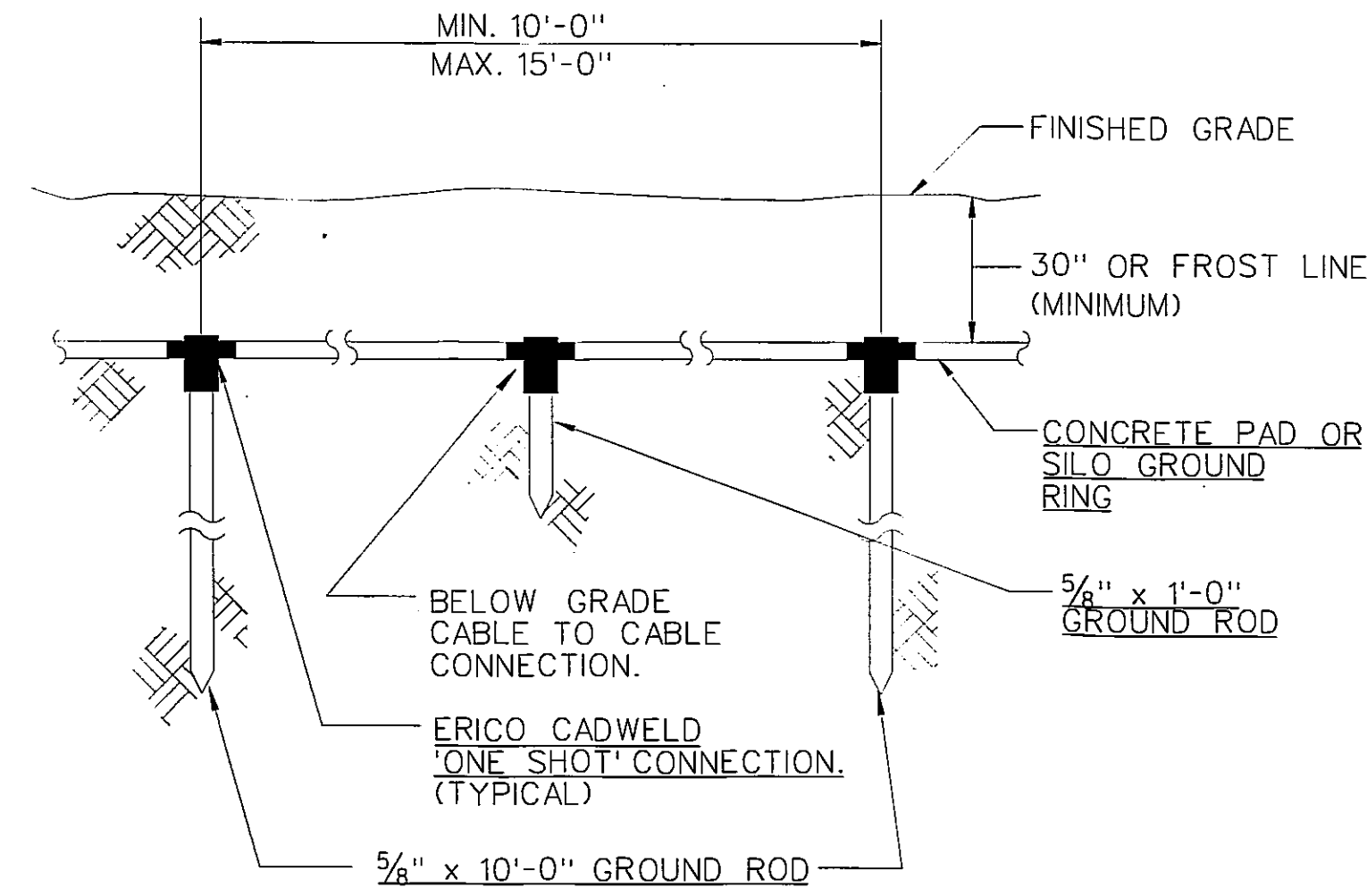


ISSUE DATE	05-31-01
95% SUBMISSION	06-21-01, 06-27-01
100% SUBMISSION	06-21-01, 06-27-01
PERMIT SUBMISSION	06-21-01, 06-27-01
SCHEDULE OF REVISIONS	
NO.	1
DATE	
BY	
REASON	
NO.	2
DATE	
BY	
REASON	
NO.	3
DATE	
BY	
REASON	
NO.	4
DATE	
BY	
REASON	
NO.	5
DATE	
BY	
REASON	

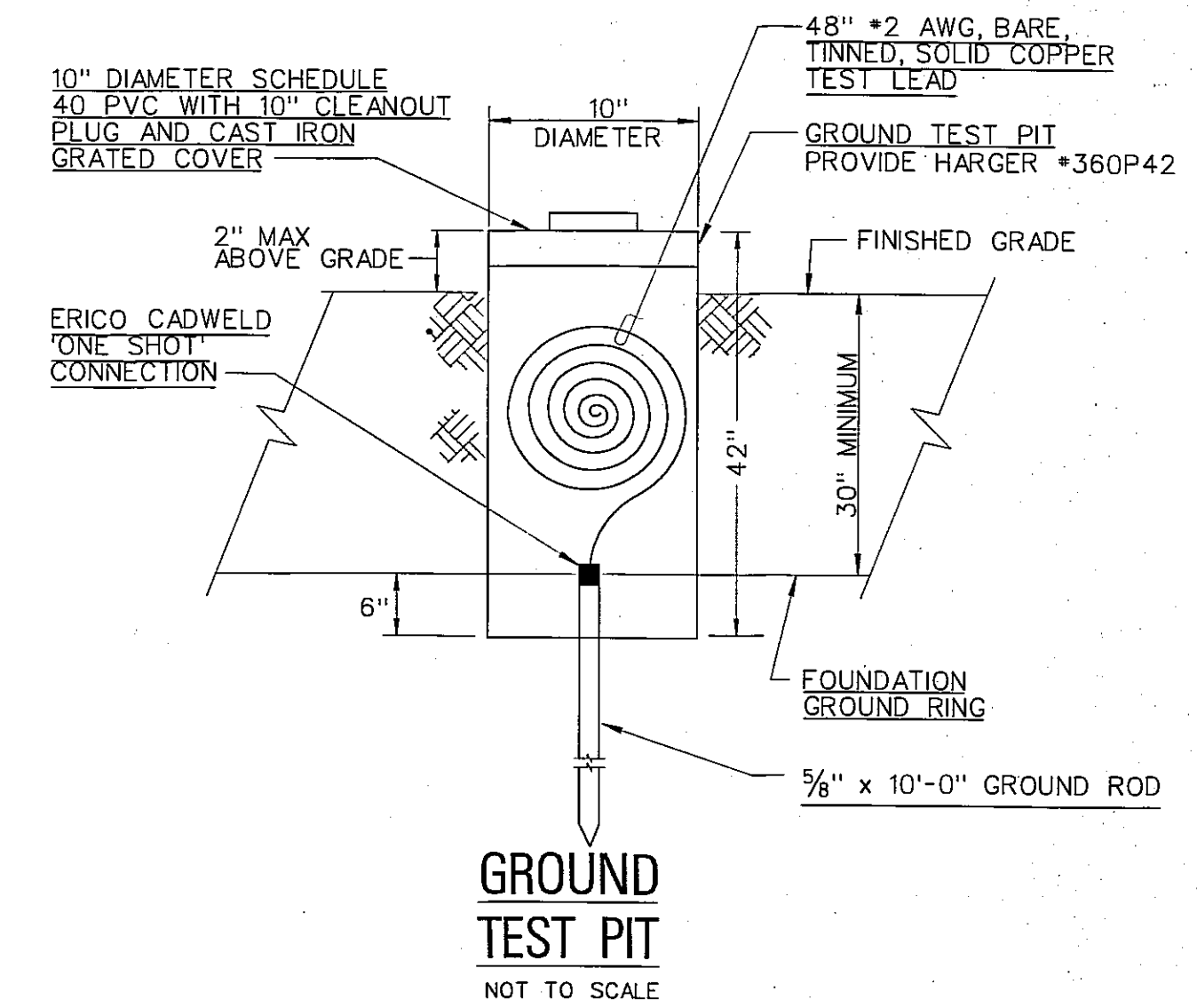
OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC
 17850 BOWIE MIL. ROAD
 CHEWCHODD, MD 20852



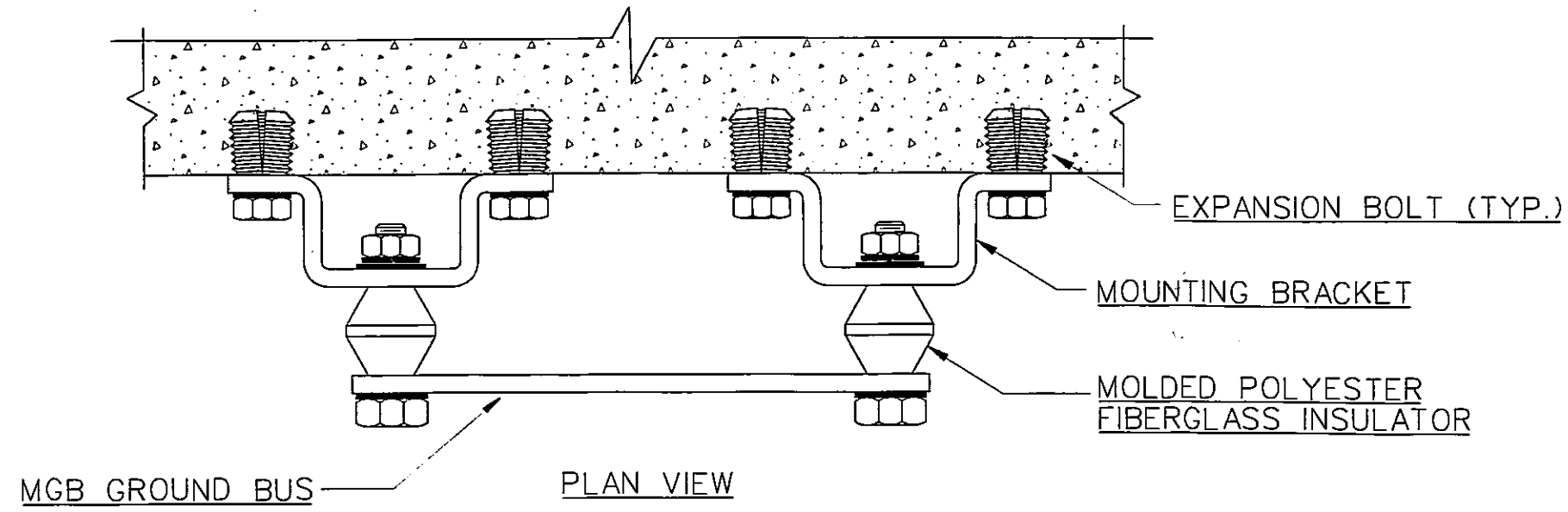
**DETAIL
COAXIAL ANTENNA CABLE GROUNDING
AND GROUND BAR CONNECTIONS**
NOT TO SCALE



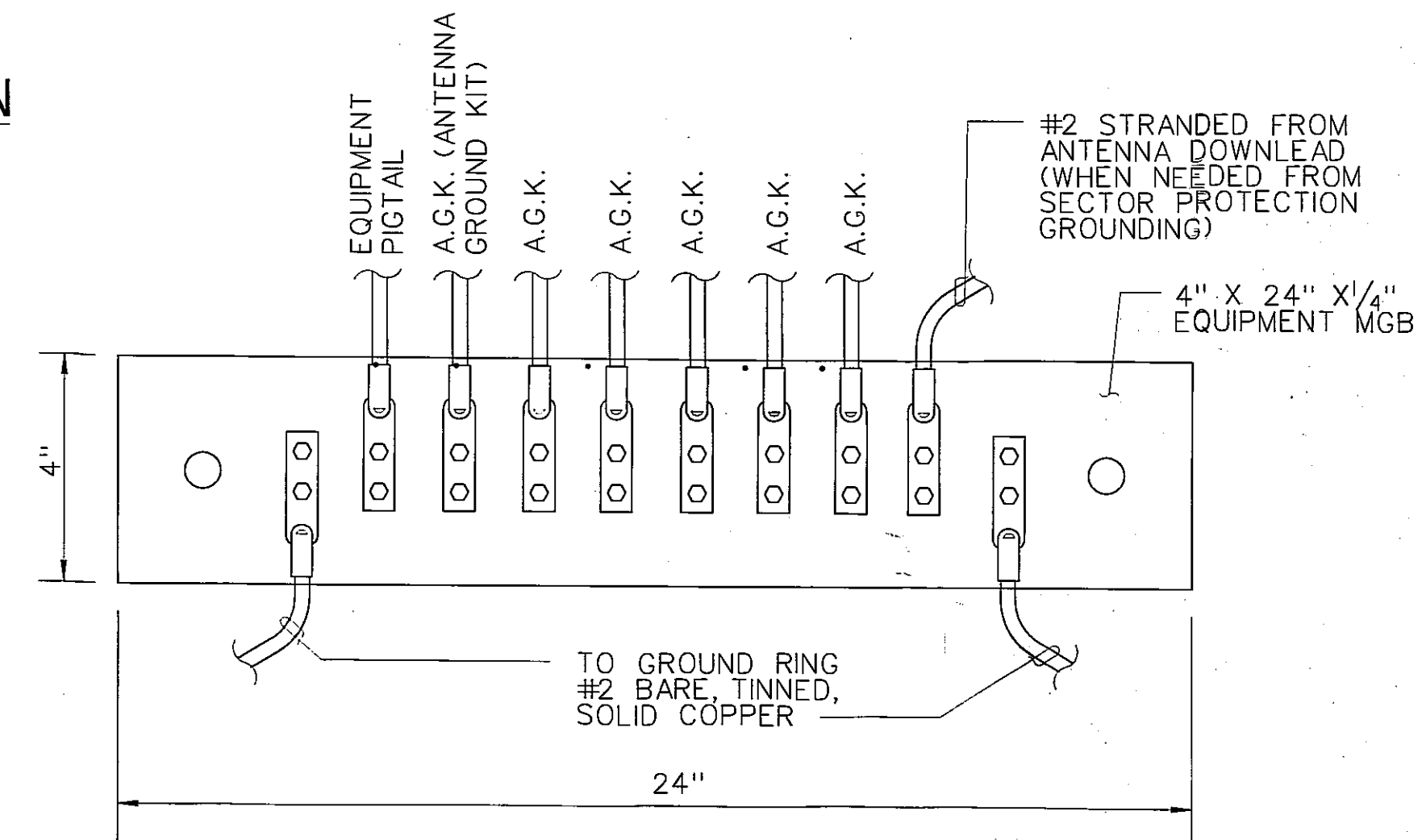
**DETAIL
CABLE TO CABLE BONDING CONNECTION**
NOT TO SCALE



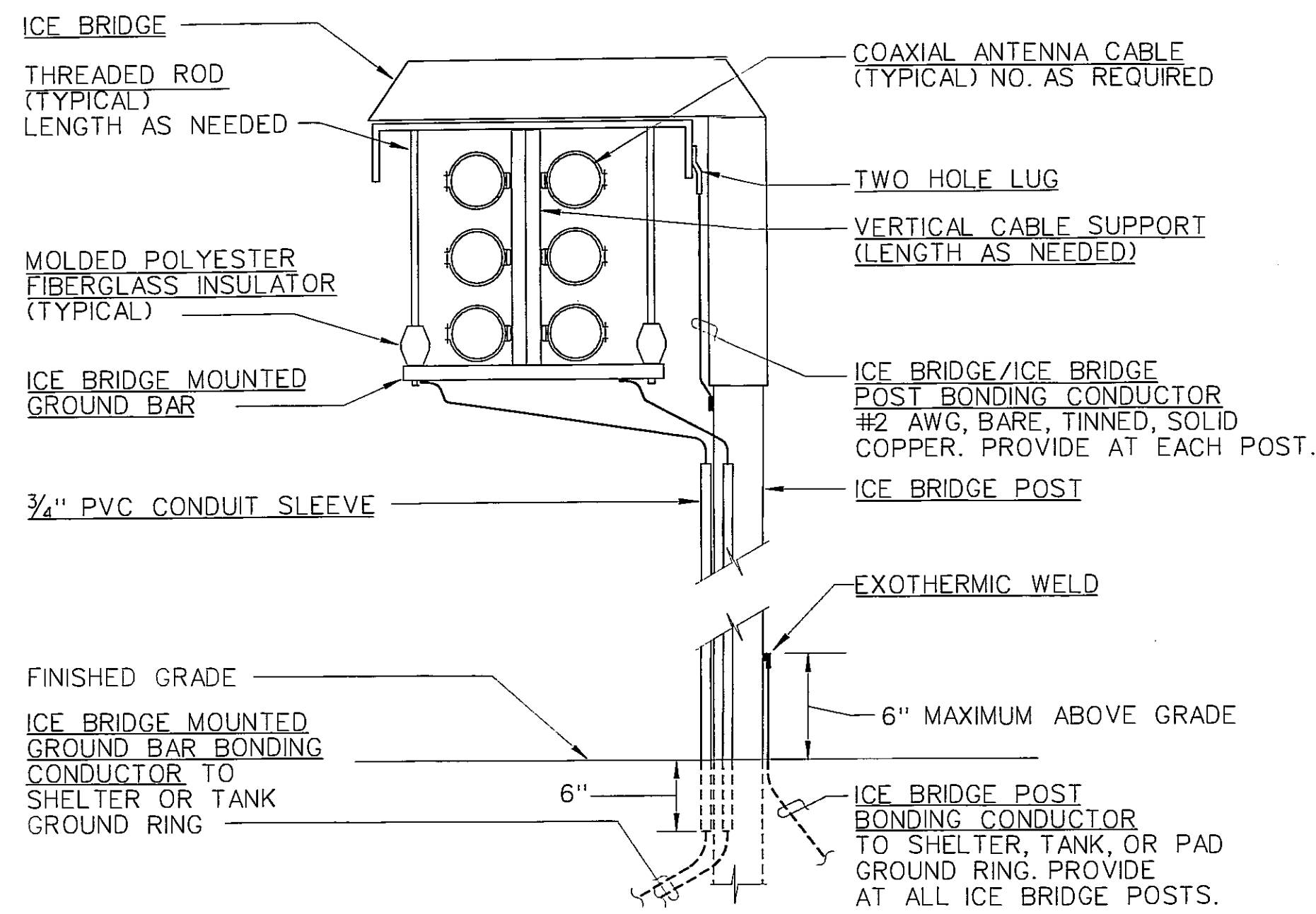
**GROUND
TEST PIT**
NOT TO SCALE



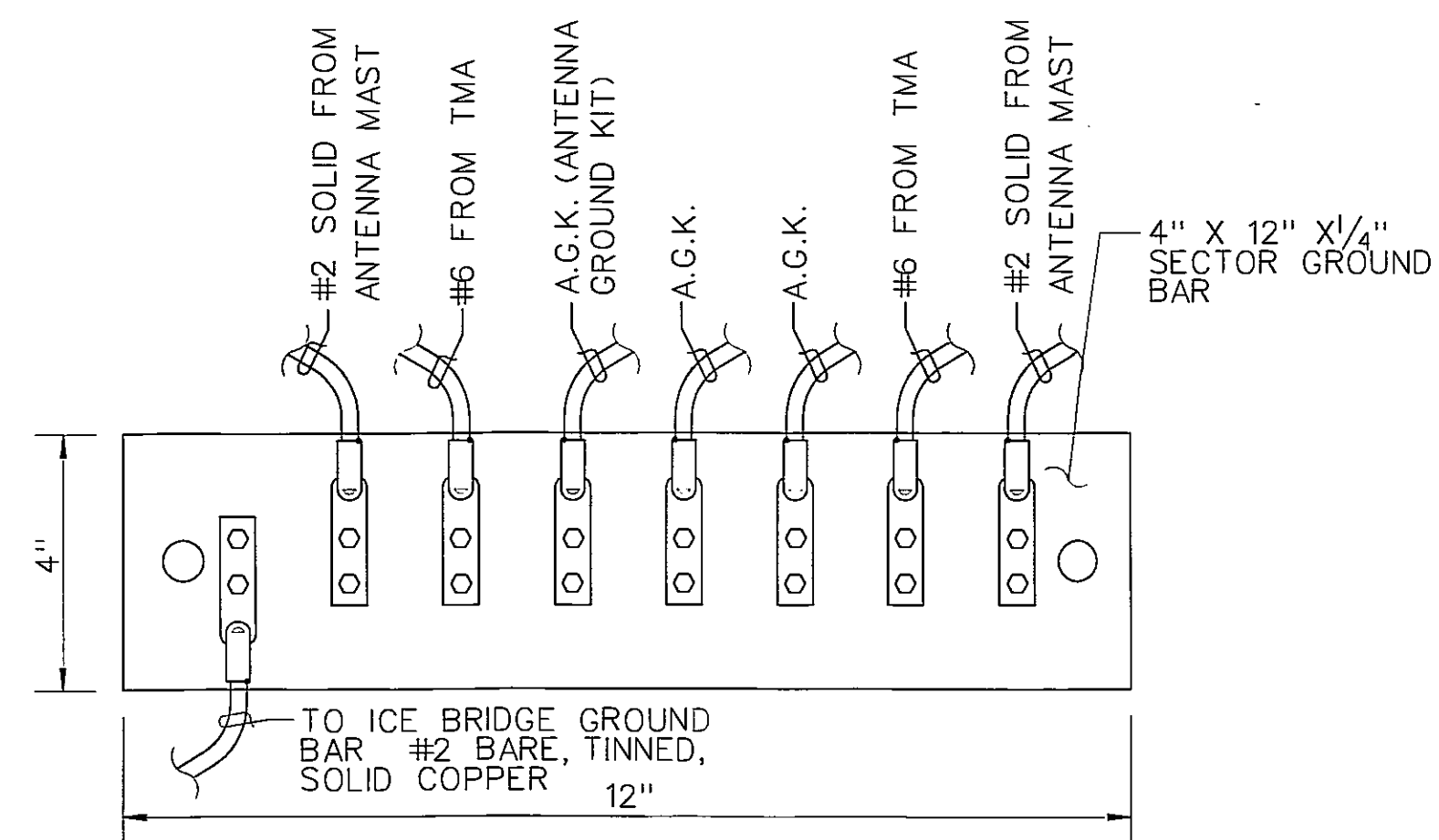
**DETAIL
MGB GROUND BAR MOUNTING**
NOT TO SCALE



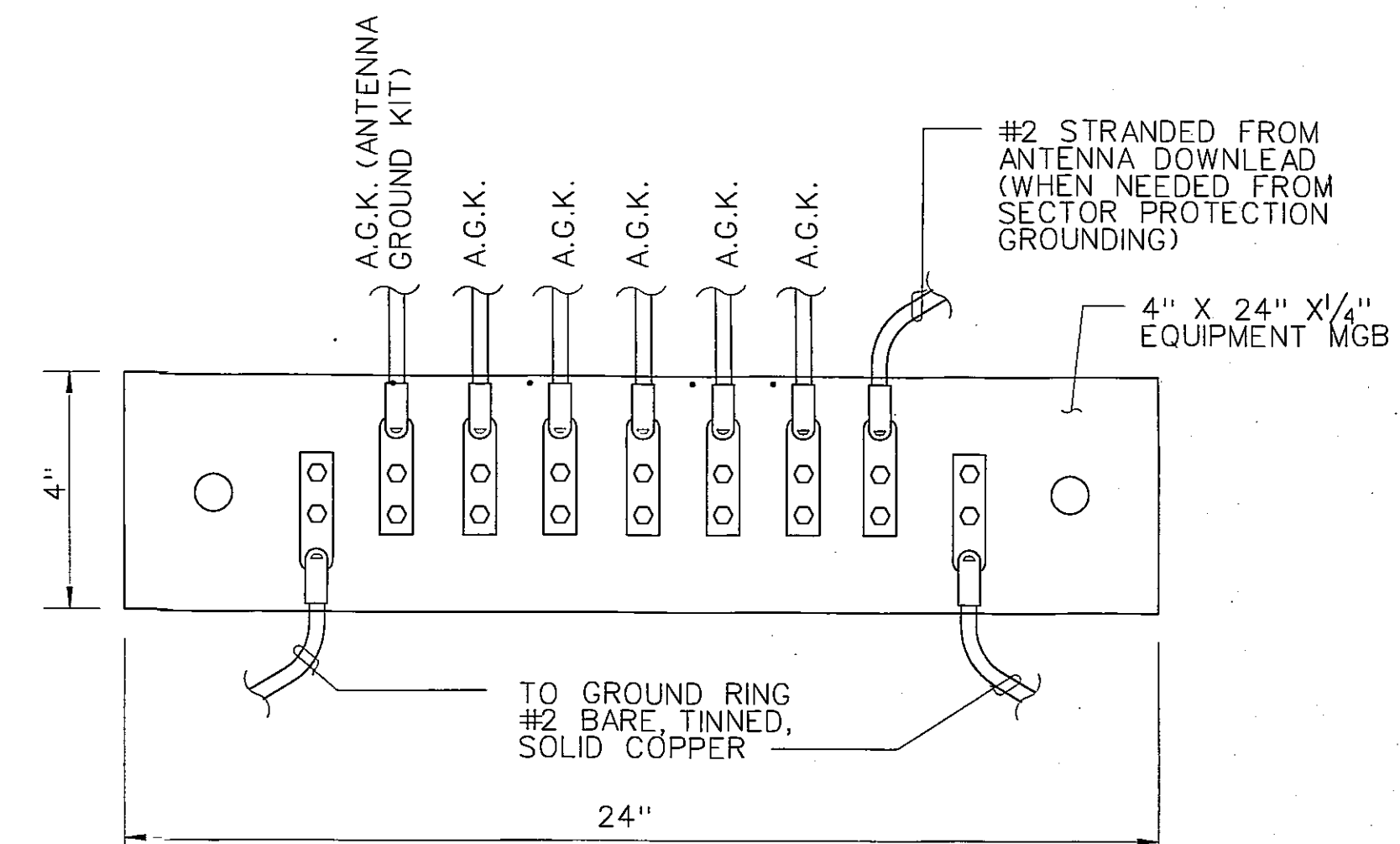
EQUIPMENT MGB CONNECTIONS
NOT TO SCALE



**DETAIL -
ICE BRIDGE MOUNTED
GROUND BAR**
NOT TO SCALE



SECTOR GROUND BAR CONNECTIONS
NOT TO SCALE



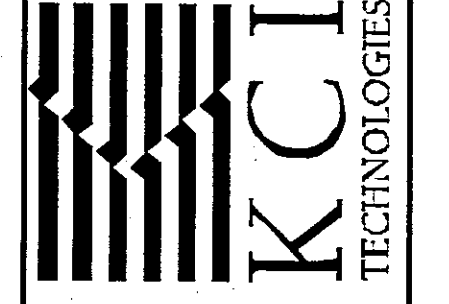
ICE BRIDGE MGB CONNECTIONS
NOT TO SCALE

DETAILS	
DRAWING NO.	E3
DRAWN BY: ATC	
CHECKED BY: JAM	
SUPPLIER/REGISTRATION NO.	
PROJECT NO.	1600013-74
SCALE: AS SHOWN	
DATE	06-27-01
JOB FILE NUMBER	7474-333A

**SITE WAN 162B
REDLAND-FRALEY FARM**
**UNMANNED WIRELESS
COMMUNICATION SITE**
REG. NO. 1600013-74

**OMNIPPOINT
COMMUNICATIONS CAP
OPERATIONS, LLC**
12050 BALTIMORE AVENUE
BELTSVILLE, MD 20705
(240) 264-8600 FAX: (240) 264-8610
www.omnipoint.com

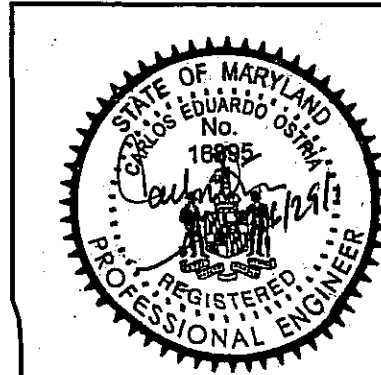
**ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS**
14409 Greenview Drive, Suite 102
Lanham, Maryland (410) 792-9086
(301) 694-1111 Fax: (410) 792-7419
www.kci.com



ISSUE DATE	06-27-01		
95% SUBMISSION	06-31-01		
100% SUBMISSION	06-21-01		
PERMIT SUBMISSION	06-27-01		
SCHEDULE OF REVISIONS			
NO.	DATE	BY	REVISION
1			
2			
3			
4			
5			

1600013-74
**OMNIPPOINT
COMMUNICATIONS CAP
OPERATIONS, LLC**
**SITE WAN 162B
REDLAND-FRALEY FARM**
12050 BALTIMORE AVENUE
BELTSVILLE, MD 20705

APPROVED
Montgomery County
Historic Preservation Commission
[Signature]



22/17-01A



OMNIPPOINT

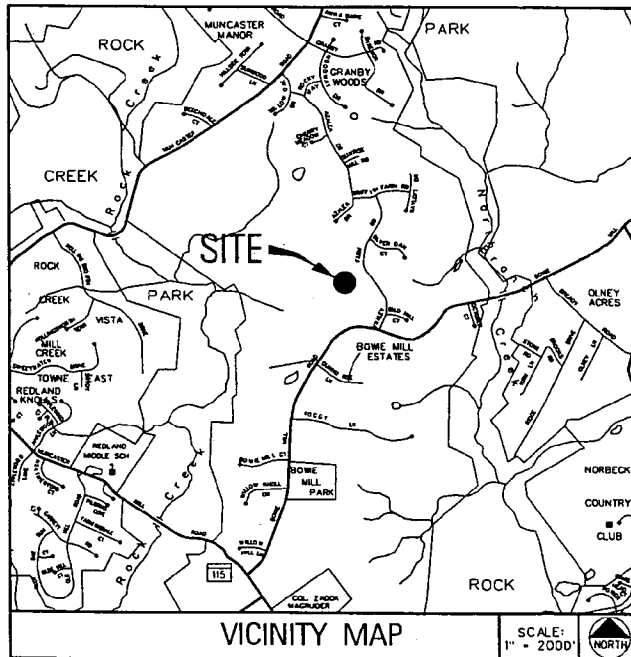
COMMUNICATIONS CAP OPERATIONS, LLC

PROPOSED UNMANNED WIRELESS COMMUNICATION SITE

SITE WAN 162B

REDLAND - FRALEY FARM

17800 BOWIE MILL ROAD DERWOOD, MD 20855



DRIVING DIRECTIONS

FROM THE OMNIPPOINT OFFICES IN BELTSVILLE, TAKE RT. 1 NORTH TO RT. 198 WEST. FOLLOW PAST RT. 29 AND TO THE END AT RT. 650 (NEW HAMPSHIRE AVE.) TURN RIGHT ON RT. 650. FOLLOW UP TO RT. 108 AND TURN LEFT ONTO RT. 108. FOLLOW TO BOWIE MILL ROAD AND TURN LEFT. FOLLOW TO FRALEY FARM ROAD AND TURN RIGHT. ENTRANCE TO SITE IS ON THE LEFT.

SHEET	DESCRIPTION	REV.
T1	TITLE SHEET	
C1	SITE PLAN	
C2	COMPOUND DETAIL AND SILD ELEVATION	
C3	COMPOUND DETAILS	
GC1	SILLO ELEVATION AND DETAILS	
GC2	ANTENNA MOUNTING PLAN, SECTIONS AND DETAILS	
E1	POWER AND TELCO PLAN	
E2	GROUNDING PLAN	
E3	DETAILS	

SHEET INDEX

EQUIPMENT LOCATION: OUTDOOR INDOOR

EQUIPMENT TYPE: RBS 2102 NDRTEL S-800D ISM / WCS

ANTENNA LOCATION: GUY TOWER SELF SUPPORT TOWER MONOPOLE ROOF TOP EXISTING TOWER OTHER

JURISDICTION: MONTGOMERY COUNTY

ZONING: RE-1

THE PROPOSED FACILITIES WILL CONSIST OF A 10' X 15' CONCRETE PAD WITH 1 BTS EQUIPMENT CABINET ENCLOSED IN A SHELTER THAT IS OPEN ON ONE SIDE FOR ACCESS. IN ADDITION, 6 TELECOMMUNICATIONS ANTENNAS AND 12 COAX CABLES WILL BE MOUNTED ON THE EXISTING 68.4' SILO.

PROJECT SUMMARY

TITLE	SIGNATURE	DATE
RF ENGINEER		
REAL ESTATE		
OMNIPPOINT AREA MANAGER		
PROPERTY OWNER		
ZONING APPROVAL		
CONSTRUCTION MANAGER		
ADDITIONAL APPROVAL		

APPROVAL LIST

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. UNIFORM BUILDING CODE (UBC) 1997	6. LIFE SAFETY CODE NFPA-101-1990
2. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA) 1996	7. AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS (AISC)
3. UNIFORM MECHANICAL CODE (UMC) 1997	8. UNDERWATER LABORATORIES APPROVED ELECTRICAL PRODUCTS
4. NATIONAL ELECTRIC CODE (NEC) WITH LOCAL AMMENDMENTS 1999	9. LOCAL BUILDING CODE
5. ANSI / EIA-222-F	10. CITY / COUNTY ORDINANCES

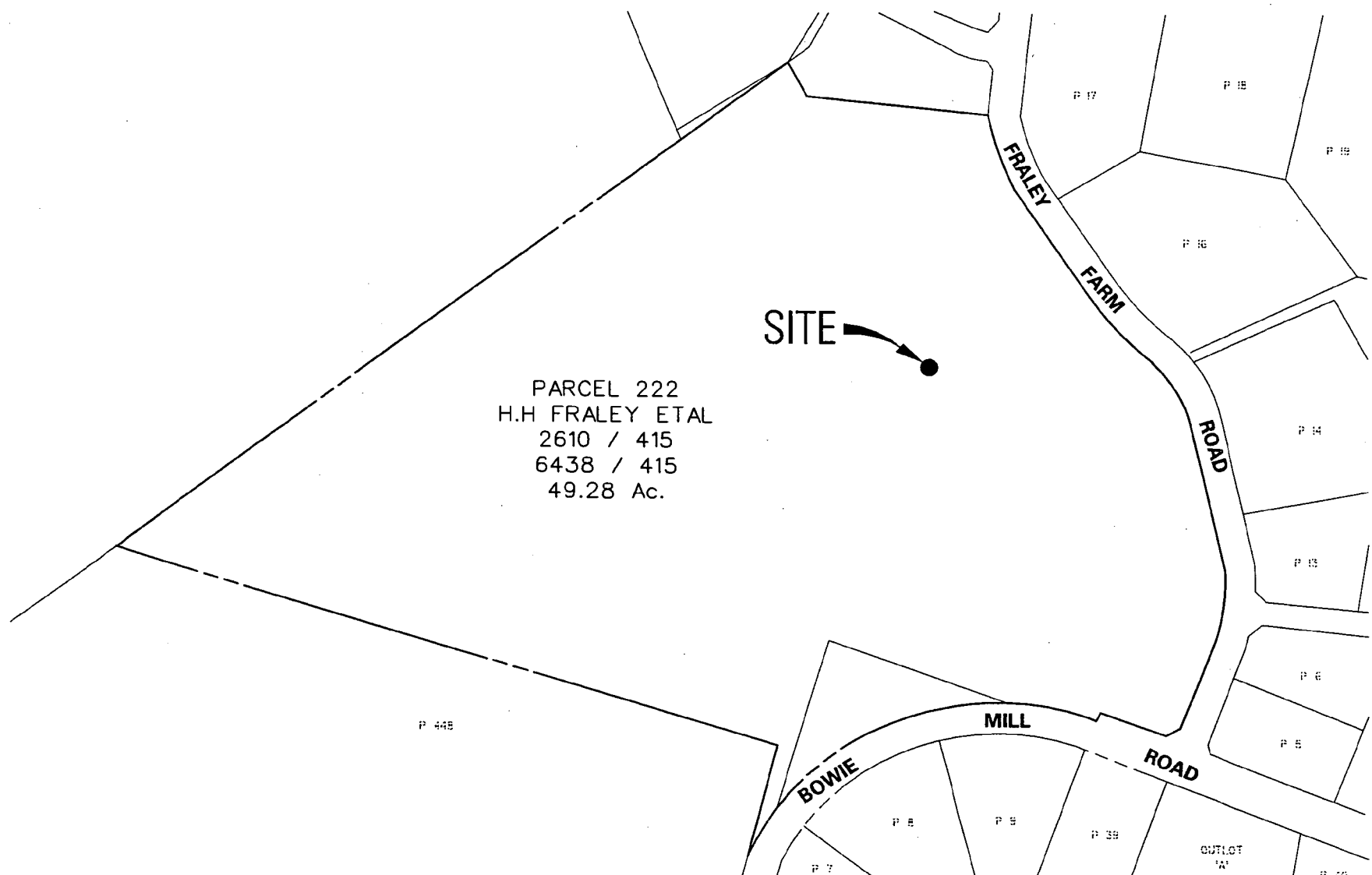
CODE COMPLIANCE

APPROVED
Montgomery County
Historic Preservation Commission

[Signature]
02/14/02

Received
3-28-02

DRAWING TITLE: TITLE SHEET			
DESIGNED BY: ANP	DRAWING NO: T1		
CHECKED BY: TA			
APPROVED BY: [Signature]			
SITE WAN 162B REDLAND - FRALEY FARM UNMANNED WIRELESS COMMUNICATION SITE			
OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC 12050 BALTIMORE AVENUE BELTSVILLE, MD 20855 (240) 264-8600 FAX: (240) 264-8610			
KCI TECHNOLOGIES ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 14502 Greenview Drive, Suite 424 Laurel, Maryland 20703 (410) 792-8086 (301) 933-1021 for: (410) 792-7419 www.kci.com			
ISSUE DATE	DESCRIPTION		
05-31-01	95% SUBMISSION		
06-27-01	100% SUBMISSION		
09-14-02	PERMIT SUBMISSION		
09-28-02	SCHEDULE OF REVISIONS		
NO.	DATE	BY	REVISION
1	09-28-02	ANP	ISSUE FOR PERMIT
2	09-28-02	ANP	ISSUE FOR PERMIT
3	09-28-02	ANP	ISSUE FOR PERMIT
1600013-74			
OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC SITE WAN 162B REDLAND - FRALEY FARM 17800 BOWIE MILL ROAD DERWOOD, MD 20855			



PARCEL 222
H.H FRALEY ETAL
2610 / 415
6438 / 415
49.28 Ac.



APPROVED
Montgomery County
Historic Preservation Commission

SITE NOTES

1. Applicant: Omnipoint Communications CAP Operations LLC
12050 Baltimore Avenue
Beltsville, MD 20817
Local Contact: Tam Ryall
(240) 264-8600
2. Property Owner: Harry H. Fraley
17800 Bowie Mill Road
Derwood, MD 20855
Contact: Kenny Fraley
3. Site Data: Tax Map HT122 & GT 562, Parcel 222
Tract area: 49.28 Ac.
Election District No. 08
L. 9596/ F. 33
ADC Map 20, Grid H-7
Tax ID#: 08-00706980
Address: 17800 Bowie Mill Road
Derwood, MD 20855
Montgomery Co., MD
4. Current Use: Agricultural/Residential
5. The proposed facilities will consist of a 10' x 15' concrete pad with 1 BTS Equipment Cabinet enclosed in a shelter that is open on one side for access. In addition, 6 telecommunications antennas and 12 coax cables will be mounted on the existing 68.4' silo.
6. Current Zoning: RE-1
7. Latitude: 39° 09' 01" N
Longitude: 77° 06' 55" W
8. Total disturbed area: 150 square feet
9. If the antennas are no longer used for telecommunications purposes for a continuous period of one (1) year, they shall be removed by the antenna owner at owner's expense.
10. No water or sanitary utilities are required for the operation of this facility.
11. This site is exempt from Stormwater Management Requirements.
12. No parking spaces are required for the proposed Omnipoint equipment cabinet.
13. This site is exempt from the Montgomery County Woodland Conservation and Tree Preservation Ordinance.
14. Project to comply with all conditions required by Montgomery County Historic Preservation Commission.

GENERAL NOTES

1. Contractor shall contact a subsurface utility locator for location of existing utilities prior to commencement of any construction activities. Contractor shall verify existing utility locations by test pit as necessary. Location of utilities shown on this plan are approximate and for planning purposes only.
 2. Contractor to provide temporary toilet facilities for duration of project.
 3. All work shall be completed in accordance with all State and Local codes and ordinances, the latest edition thereof.
 4. Contractor shall secure all necessary permits for this project from all applicable Governmental agencies.
 5. Any permits which must be obtained shall be the contractor's responsibility. The contractor shall be responsible for abiding by all conditions and requirements of the permits.
 6. Contractor shall coordinate all utility connections with appropriate utility owners.
 7. In any excavated area, backfill will be placed with dry material free of rock or stones larger than 1", in 12" lifts, compacted to 95% dry density. All disturbed areas to be restored to match surrounding conditions.
 8. These plans are not for recordation or conveyance.
 9. Existing pavement and other surfaces disturbed by contractor (which are not to be removed) shall be repaired to preconstruction conditions by the contractor.
 10. Damage to utilities or property of others by the contractor during construction shall be repaired to preconstruction conditions by the contractor.
 11. Notify "Miss Utility" at 1-800-257-7777 - 48 hours prior to doing any excavation in this area.
- The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agree to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

ANTENNA CONTRACTOR'S SCOPE OF WORK

1. Antenna contractor shall coordinate cable routing with Omnipoint construction coordinator.
2. All antenna pipe mounts and hardware shall be hot-dip galvanized in accordance with ASTM A123 and A 153.
3. Use 1/2" Dia. coaxial jumper cable between antenna connection and coaxial cable termination. Attach 1/2" Dia. cable to pipe mount to minimize visibility.
4. Contractor shall furnish and install all supports, including ice bridge as shown on the drawings.
5. Contractor shall install all antennas and coaxial cables furnished by Omnipoint as shown on the drawings.

DRAWING TITLE: **SITE PLAN**

DATE: JAN 11	DRAWING NO: C1
CREATED BY: J. J. JONES	PROJECT NO: 1600013-74
DATE: 03-28-02	SCALE: AS SHOWN
DATE: 03-27-01	SCALE: AS SHOWN
DATE: 03-14-02	SCALE: AS SHOWN

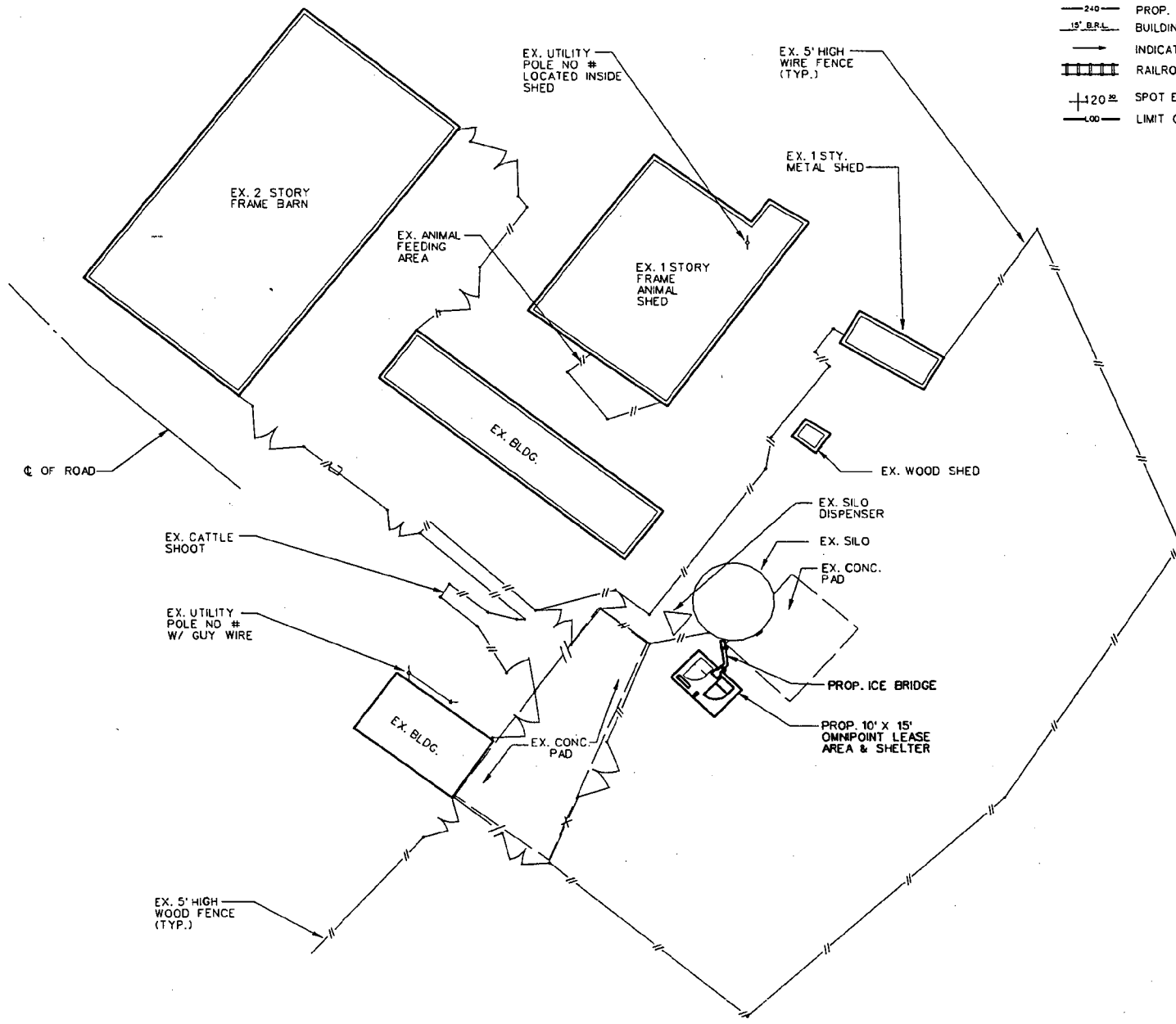
**SITE WAN 162B
REDLAND-
FRALEY FARM
UNMANNED WIRELESS
COMMUNICATION SITE**

OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC
12050 BALTIMORE AVENUE
BELTSVILLE, MD 20705
(240) 264-8600 FAX: (240) 264-8610

KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
14502 Greenview Drive, Suite 424
Lanham, Maryland 20708
(301) 953-1821 (410) 792-8086
Fax: (410) 792-7419
www.kci.com

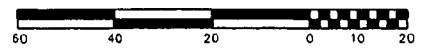
ISSUE DATE	03-21-01
95% SUBMISSION	03-21-01
100% SUBMISSION	03-27-01
PERMIT SUBMISSION	03-14-02
SCHEDULE OF REVISIONS	
NO. OF REVISIONS	1
REVISED ZONING	RE-1
DATE	03-28-02
BY	J. J. JONES
DATE	03-28-02
BY	J. J. JONES

1600013-74
OMNIPPOINT COMMUNICATIONS CAP OPERATIONS, LLC
SITE WAN 162B
REDLAND-
FRALEY FARM
17800 BOWIE MILL ROAD
DERWOOD, MD 20855

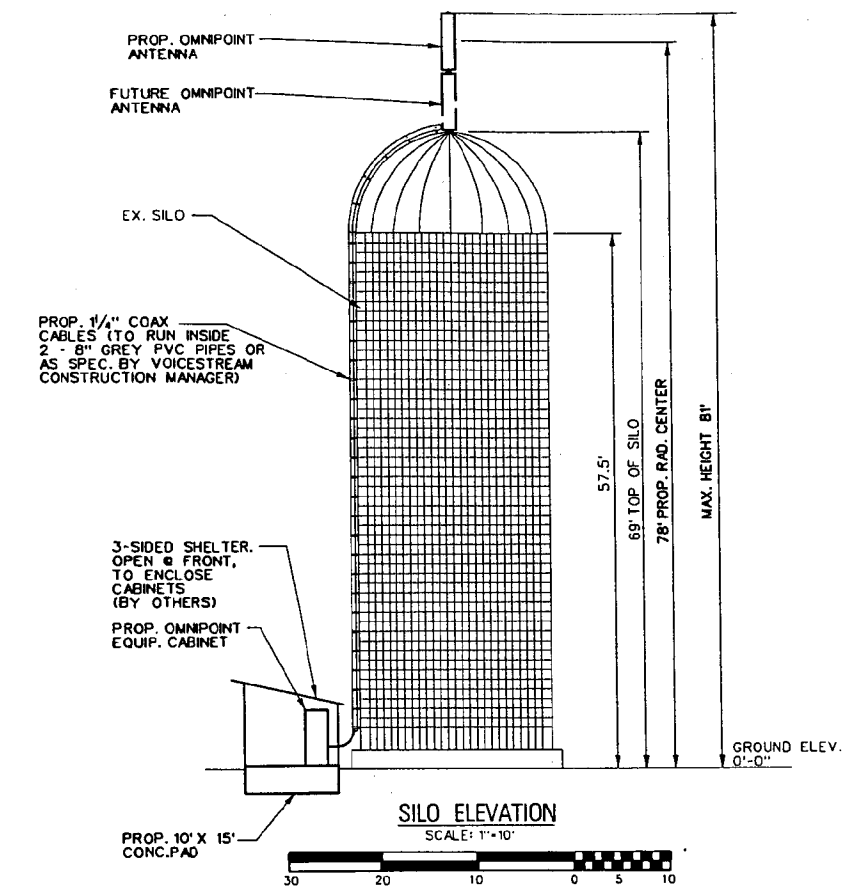


SITE PLAN

SCALE: 1"=20'

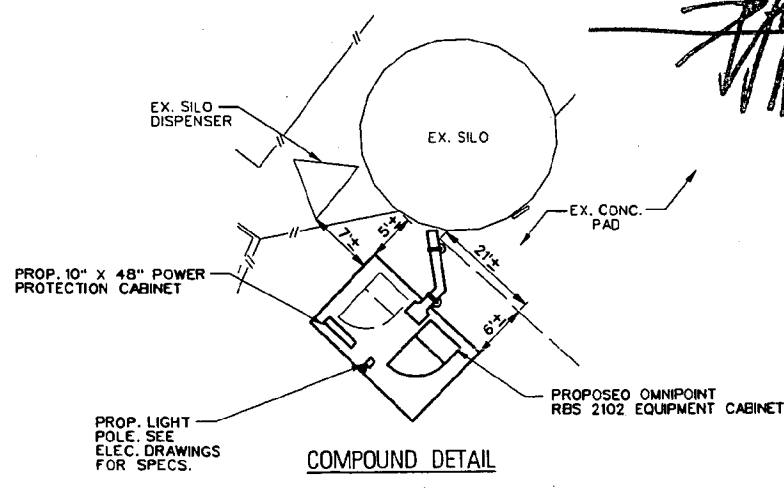
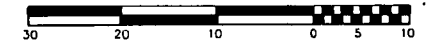


- LEGEND**
- PROP. TREE LINE
 - EX. TREE LINE
 - FIRE HYDRANT POLE
 - POLE WITH LIGHT
 - EVERGREEN TREE
 - OAK
 - EX. FENCE
 - PROP. FENCE
 - EX. CONTOURS
 - PROP. CONTOURS
 - BUILDING RESTRICTION LINE
 - INDICATES SURFACE FLOW
 - RAILROAD LINE
 - SPOT ELEVATION
 - LIMIT OF DISTURBANCE



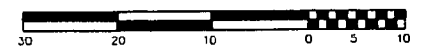
SILO ELEVATION

SCALE: 1"=10'



COMPOUND DETAIL

SCALE: 1"=0'



APPROVED
Montgomery County
Historic Preservation Commission

DRAWING TITLE: **SITE PLAN**
COMPOUND DETAIL
AND SILO ELEVATION

DATE BY:	TA	DRAWING NO.:	C2
CHECKED BY:	AW	PROJECT NO.:	1600013-74
DATE:	11/14/02	SCALE:	AS SHOWN
1700 BONE MILL ROAD OROVILLO, VA 22653 TEL: (202) 764-8600			

SITE WAN 162B
REDLAND-FRALEY FARM
UNMANNED WIRELESS COMMUNICATION SITE

OMNIPONT COMMUNICATIONS CAP OPERATIONS, LLC
 12050 BALTIMORE AVENUE
 BELL'SVILLE, MD 20705
 (202) 264-8600 FAX: (202) 264-8610

ENGINEERS
 PLANNERS
 SCIENTISTS
 CONSTRUCTION MANAGERS

KCI TECHNOLOGIES

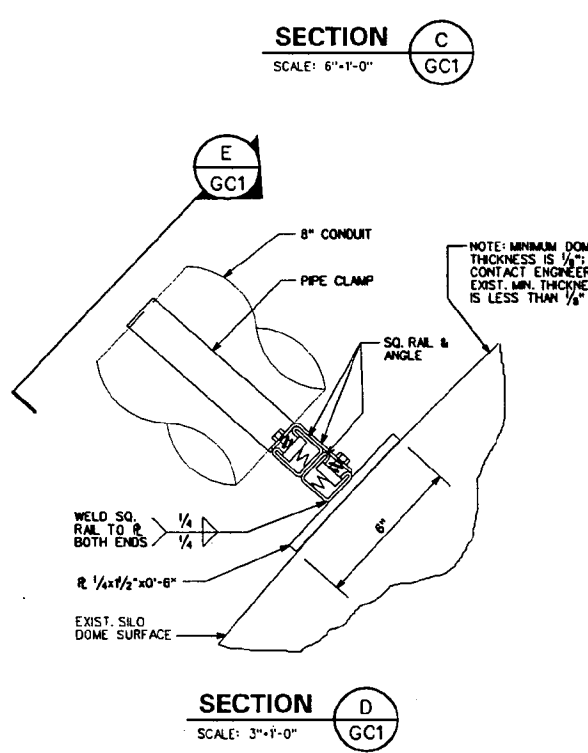
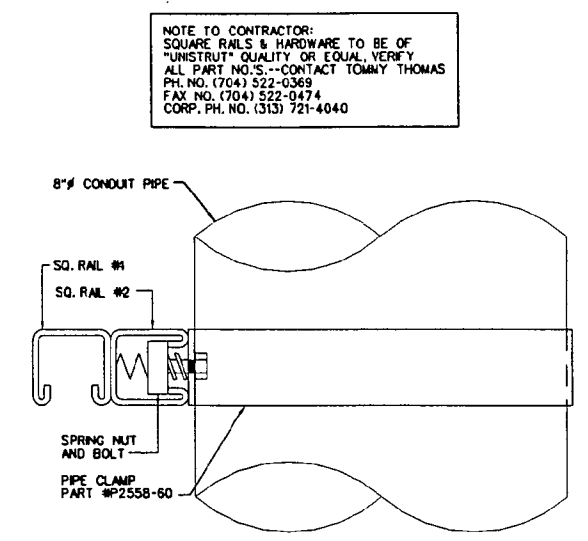
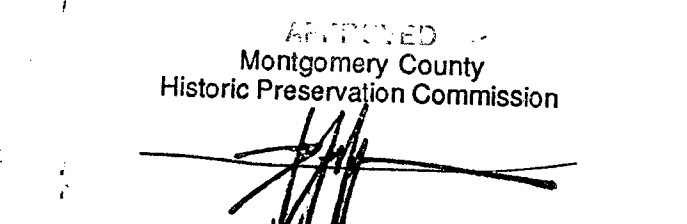
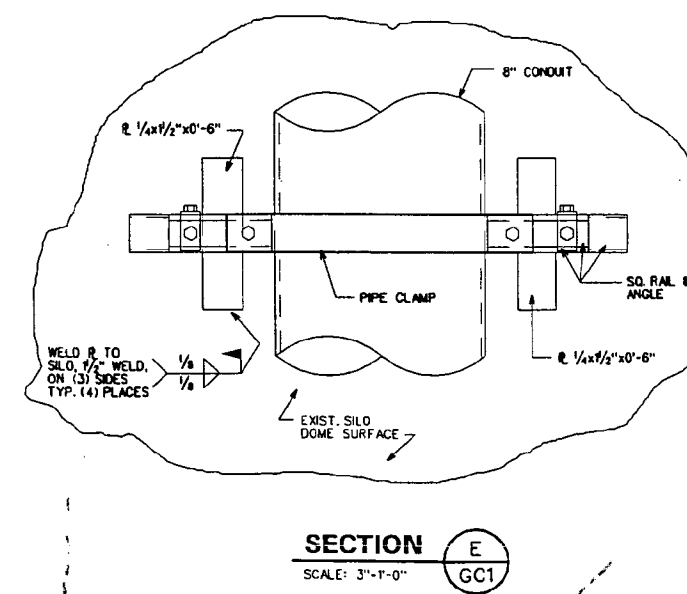
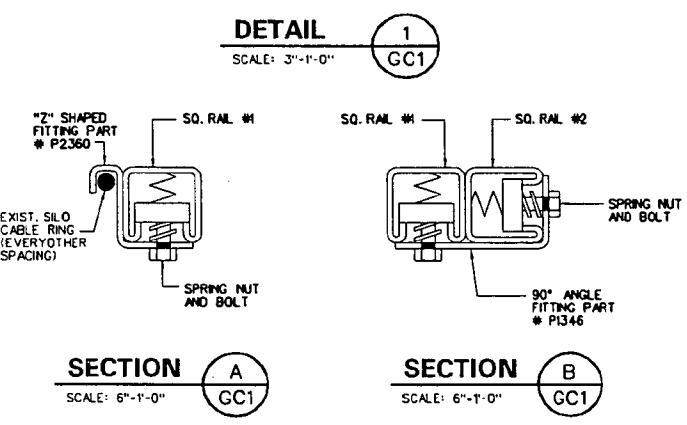
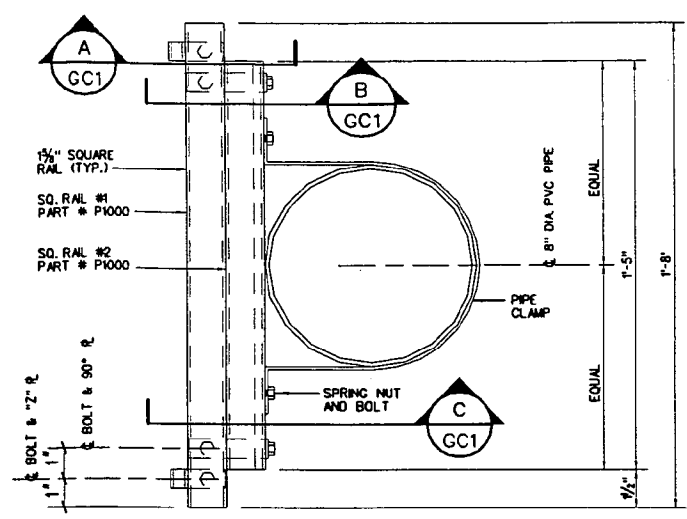
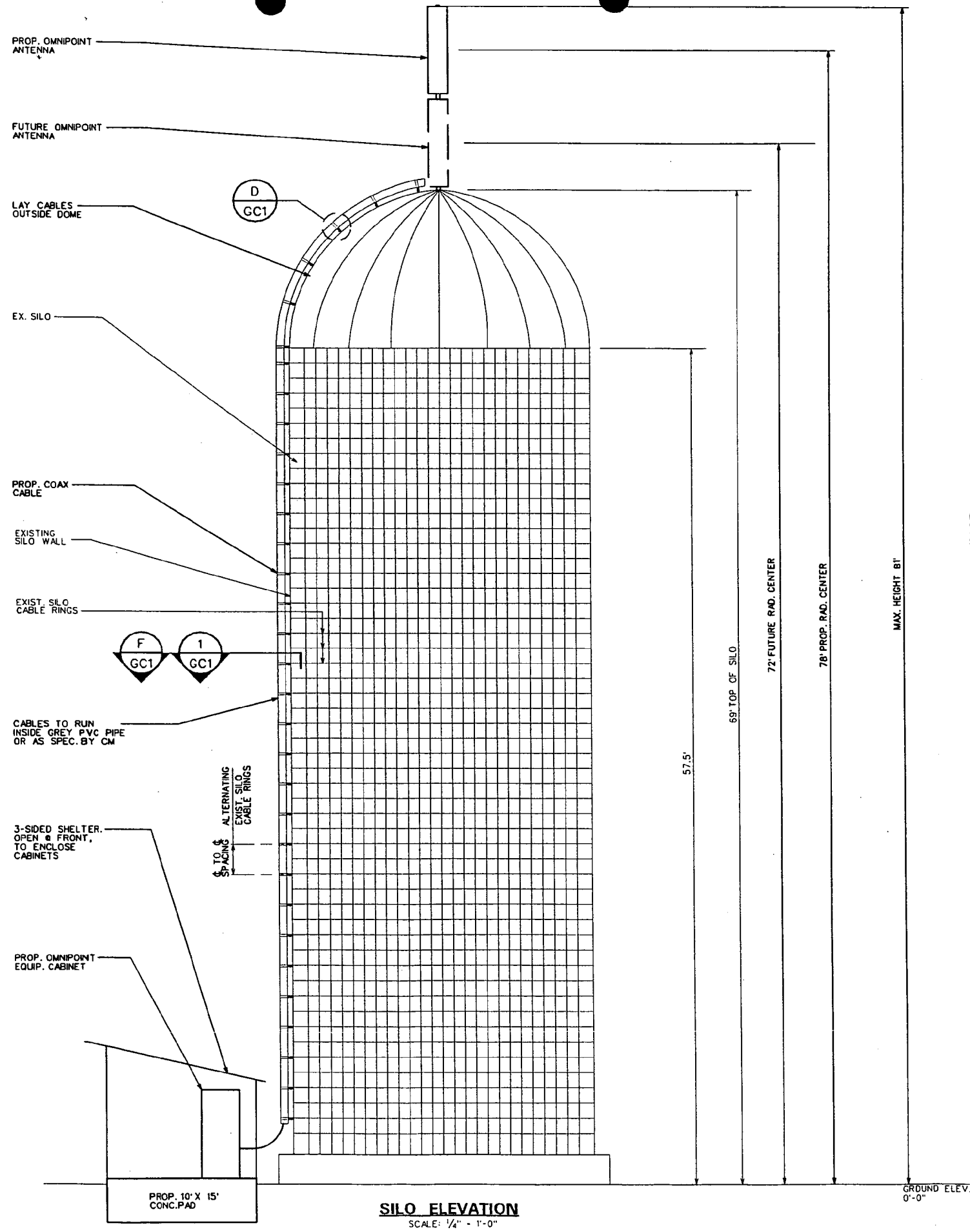
14502 Greenview Drive, Suite 424
 Laurel, Maryland 20708
 (301) 953-1821 (410) 792-8086
 fax: (410) 792-7419
 www.kci.com

ISSUE DATE	DESCRIPTION	BY	SCALE
05-31-01	95% SUBMISSION	06-27-01	06-14-02, 03-28-02
06-27-01	100% SUBMISSION	06-27-01	06-27-01
06-27-01	PERMIT SUBMISSION		
SCHEDULE OF REVISIONS			
1			
2			
3			
4			
5			

1600013-74

OMNIPONT COMMUNICATIONS CAP OPERATIONS, LLC

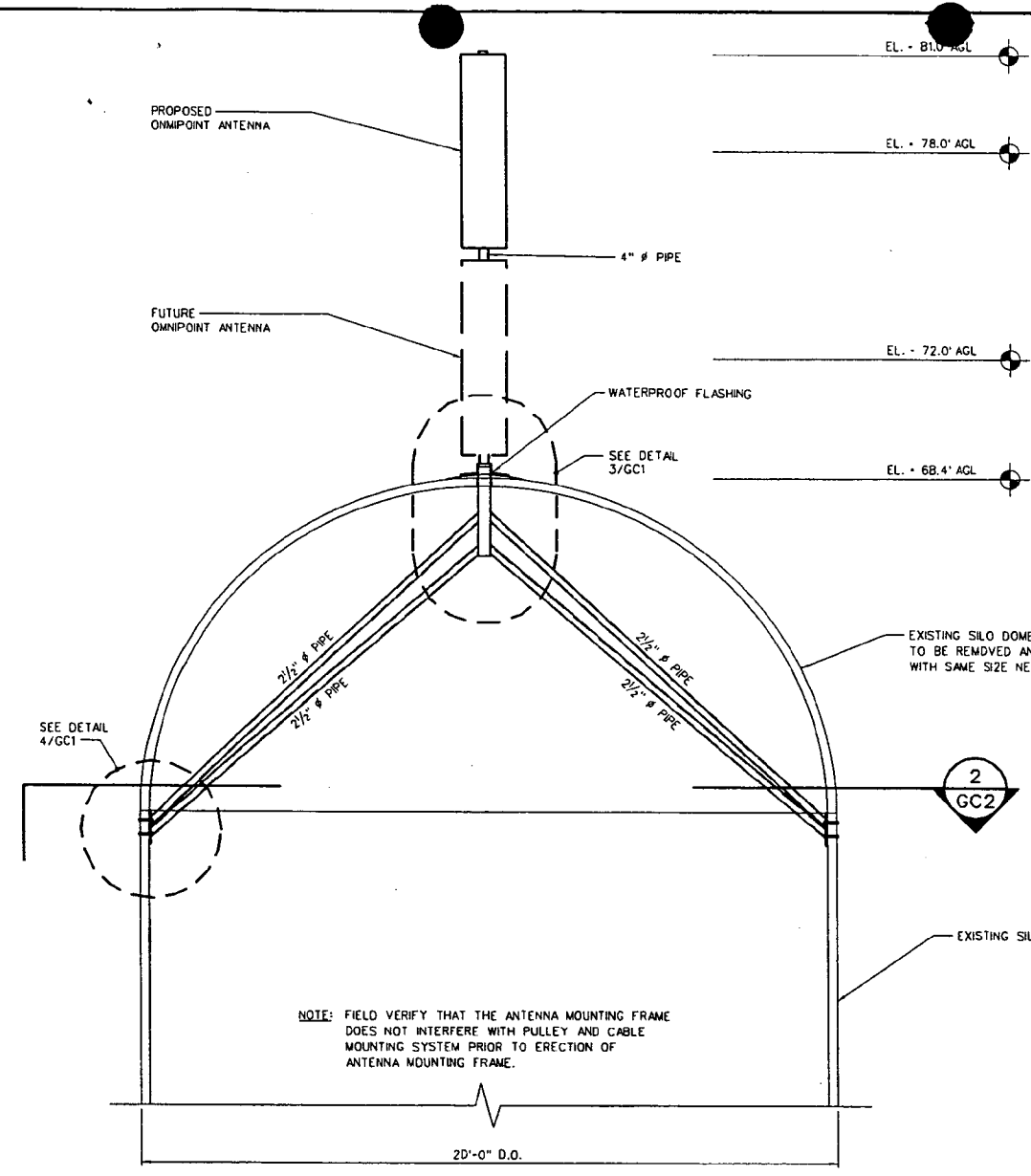
SITE WAN 162B
REDLAND-FRALEY FARM
 1700 BONE MILL ROAD
 OROVILLO, VA 22653



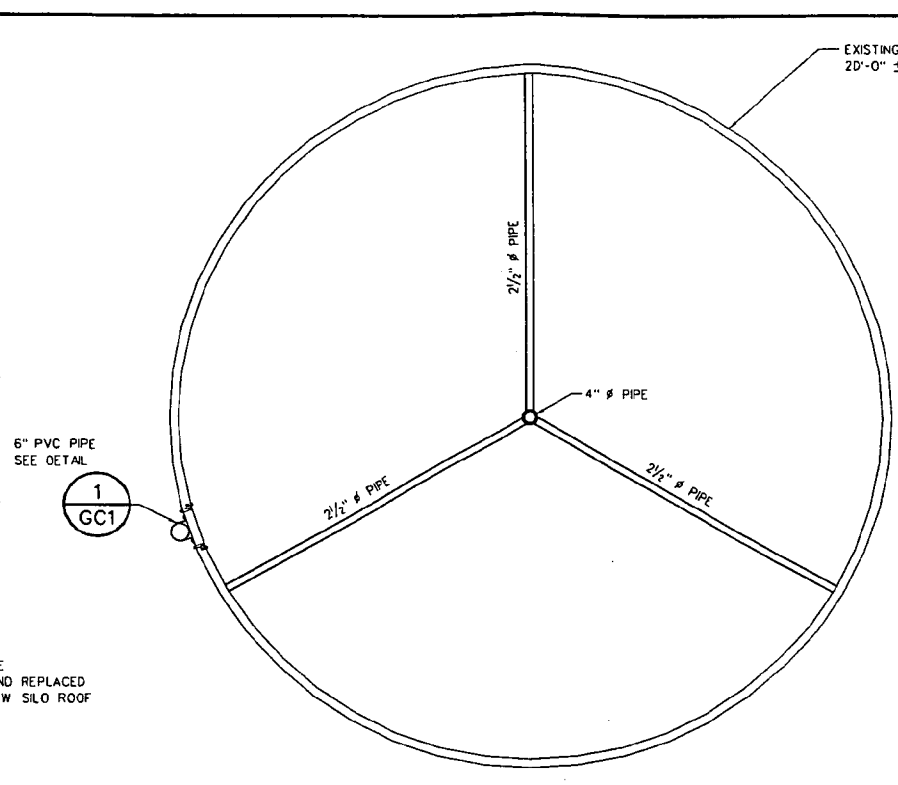
NOTE TO CONTRACTOR:
 SQUARE RAILS & HARDWARE TO BE OF
 "UNISTRUT" QUALITY OR EQUAL. VERIFY
 ALL PART NO.'S.--CONTACT TOMMY THOMAS
 PH. NO. (704) 522-0369
 FAX NO. (704) 522-0474
 CORP. PH. NO. (313) 721-4040

APPROVED
 Montgomery County
 Historic Preservation Commission

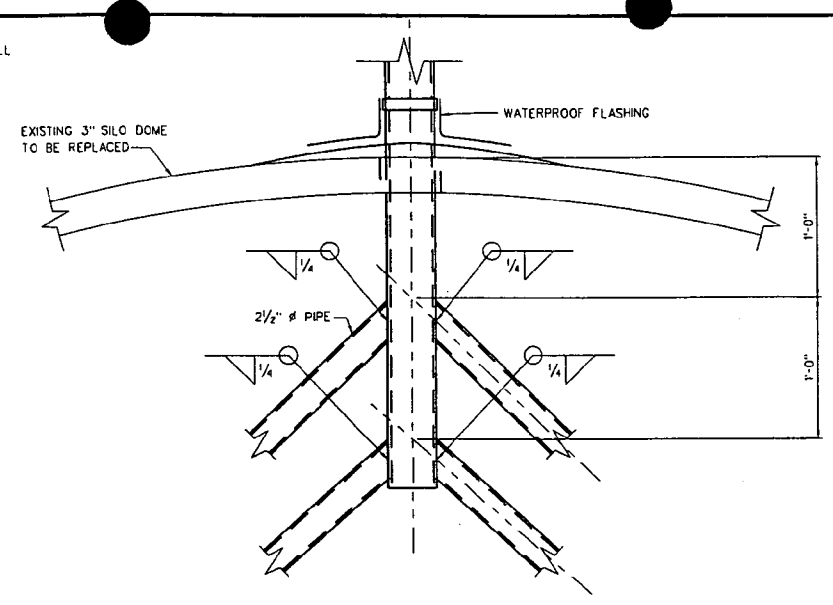
DRAWING TITLE: SILO ELEVATION AND DETAILS		DRAWING NO. GC1
DATE: 08-21-01	DESIGNED BY: KCI	SCALE: AS SHOWN
ISSUE DATE: 08-21-01	CHECKED BY: KCI	PROJECT NO.: 1600013-74
95% SUBMISSION: 08-21-01	100% SUBMISSION: 08-21-01	DATE: 08-21-01
PERMIT SUBMISSION: 08-21-01	SCHEDULE OF REVISIONS:	NO.
ENGINEERS KCI TECHNOLOGIES PLANNERS SCIENTISTS CONSTRUCTION MANAGERS 15502 Greenleaf Drive, Suite 424 Laurel, Maryland 20708 (301) 953-1821 (410) 792-8086 Fax: (410) 792-7419 www.kci.com		
1600013-74 OMNIPPOINT COMMUNICATIONS, L.L.C. CAP SITE WAN 182B REDLAND-FRALEY FARM 17800 BOWMEY ROAD REDLAND, MD 21152		



ANTENNA MOUNTING DETAIL
SCALE: 3/8" = 1'-0"
1 GC2



ANTENNA MOUNTING PLAN
SCALE: 3/8" = 1'-0"
2 GC2



DETAIL
SCALE: 1/2" = 1'-0"
3 GC2

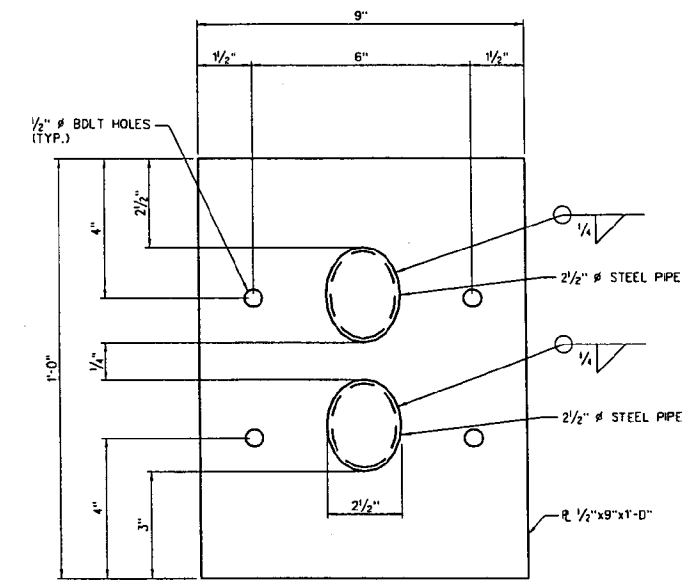
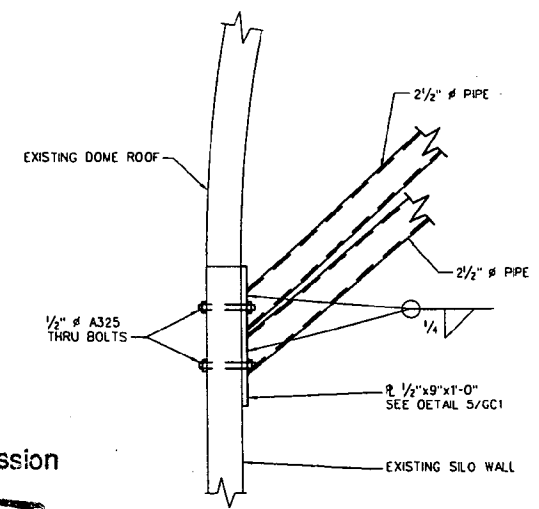


PLATE DETAIL
SCALE: 3/8" = 1"
5 GC2



DETAIL
SCALE: 1/2" = 1'-0"
4 GC2

APPROVED
Montgomery County
Historic Preservation Commission

RF SYSTEM SCHEDULE										
SITE NUMBER: WAN 169-C										
ANTENNA POSITION	ANTENNA SECTOR	TYPE OF ANTENNA	COAX SIZE	RAD CENTER	EST. LENGTH	TAPE COLOR	ANTENNA DIRECTION	BEAM WIDTH	ELEC. DOWN TILT	SERIAL NUMBER
1-N1401	0 DEGREE	ACCELERATOR	1/4"	78.0'	100'-0"	RED	RECEIVE	90 DEGREE	0 DEGREE	
2-N1401	15 DEGREE	ACCELERATOR	1/4"	72.0'	100'-0"	RED / WHITE	TRANSMIT	90 DEGREE	0 DEGREE	
1-FUTURE3						RED / RED	RECEIVE	90 DEGREE	0 DEGREE	
1-FUTURE3						RED/RED/YELLOW	TRANSMIT	90 DEGREE	0 DEGREE	
1-F12101	135 DEGREE	ACCELERATOR	1/4"	78.0'	100'-0"	GREEN	RECEIVE	90 DEGREE	0 DEGREE	
2-B12101	135 DEGREE	ACCELERATOR	1/4"	72.0'	100'-0"	GREEN / WHITE	TRANSMIT	90 DEGREE	0 DEGREE	
1-FUTURE3						GREEN / GREEN	RECEIVE	90 DEGREE	0 DEGREE	
1-FUTURE3						GREEN/GREEN/YELLOW	TRANSMIT	90 DEGREE	0 DEGREE	
1-C13101	255 DEGREE	ACCELERATOR	1/4"	78.0'	100'-0"	BLUE	RECEIVE	90 DEGREE	0 DEGREE	
2-E13101	255 DEGREE	ACCELERATOR	1/4"	72.0'	100'-0"	BLUE / WHITE	TRANSMIT	90 DEGREE	0 DEGREE	
1-FUTURE3						BLUE / BLUE	RECEIVE	90 DEGREE	0 DEGREE	
1-FUTURE3						BLUE/BLUE/YELLOW	TRANSMIT	90 DEGREE	0 DEGREE	

- NOTES: 1. MECHANICAL DOWN TILT WILL BE FURNISHED LATER AS SYSTEM IS DEVELOPED.
2. ERICSSON WILL PROVIDE ANTENNA SERIAL NUMBER AFTER INSTALLATION.
3. ALL CHANGES TO THIS SCHEDULE SHOULD BE APPROVED BY OMNIPONT RF ENGINEERING.
4. CONTRACTOR TO PROVIDE A TOTAL OF 4 CABLE RUNS PER SECTOR.
5. CONTRACTOR TO PROVIDE (4) TMA'S - ERICSSON KRY 112 13/3, 2 PER SECTOR.

ANTENNA CONTRACTOR'S SCOPE OF WORK

1. ALL ANTENNA PIPE MASTS AND HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 123 AND A 153. PAINT TO MATCH EXTERIOR OF BUILDING.
2. ANTENNA CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORTS AS SHOWN ON THE DRAWINGS.
3. ANTENNA CONTRACTOR SHALL INSTALL ALL ANTENNAS AND COAXIAL CABLES FURNISHED BY OMNIPONT AS SHOWN ON THE DRAWINGS.
4. USE 1/2" DIA COAXIAL JUMPER CABLE BETWEEN ANTENNA CONNECTION AND COAXIAL CABLE TERMINATION. ATTACH CABLE TO PIPE MAST TO MINIMIZE VISIBILITY.
5. EXISTING CABLE ROUTING IS SCHEMATIC. ANTENNA CONTRACTOR SHALL DETERMINE THE SIMPLEST ROUTING AND PROVIDE SUPPORTS ON THE ROOF AT 4'-0" MAX SPACING.
6. CONNECTION BETWEEN ANTENNA AND PIPE MOUNT SHALL BE DESIGNED AND FURNISHED BY THE CONTRACTOR.

GENERAL STRUCTURAL NOTES:

1. ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION (ALLOWABLE STRESS DESIGN), 9TH EDITION. MATERIALS SHALL BE AS FOLLOWS:
SHAPES AND PLATES: ASTM TUBE: ASTM A500, GRADE C
PIPE: ASTM A 53, GRADE B
BOLTS: ASTM A 325
WIND SPEED - 80 MPH
EXPOSURE - C
2. DESIGN LOADS:
WIND SPEED - 80 MPH
EXPOSURE - C
3. ALL WELDING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWS D1.1, STRUCTURAL WELDING CODE - STEEL, USING E70XX ELECTRODES. ALL WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH AWS REQUIREMENTS.
4. STEEL ANTENNA SUPPORTS AND STRUCTURAL STEEL, INCLUDING ALL BDLTS AND ACCESSORIES, SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123 OR ASTM 153 AS APPLICABLE. ALL AREAS OF FIELD WELDING AND BDLTING AND ANY OTHER AREAS WITH DAMAGED COATING SHALL BE FIELD REPAIRED WITH SSPC PAINT 20 GALVANIZING REPAIR PAINT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

5. ALL DIMENSIONS AFFECTED BY THE GEOMETRICS AND/OR LOCATION OF THE EXISTING STRUCTURE ARE TO BE CHECKED IN THE FIELD BY THE CONTRACTOR BEFORE ANY CONSTRUCTION IS DONE AND BEFORE ANY MATERIAL IS ORDERED OR FABRICATED. NOTIFY THE ENGINEER WHERE OBSTRUCTIONS TO NEW CONSTRUCTION OCCUR BEFORE ANY CONSTRUCTION IS DONE AND BEFORE ANY MATERIAL IS ORDERED OR FABRICATED.
6. SUBMIT SHOP DRAWINGS FOR ALL STEEL WORK TO OMNIPONT PRIOR TO FABRICATION.
7. CONTRACTOR SHALL VERIFY CONSTRUCTABILITY AND DELIVERABILITY OF ALL MATERIALS PRIOR TO START OF WORK. ANY REQUESTS FOR REVISIONS MUST BE SUBMITTED TO OMNIPONT BEFORE ANY MATERIAL IS ORDERED OR FABRICATED.
8. CONTRACTOR SHALL PREPARE AND SUBMIT TO OMNIPONT, AS-BUILT, MARKED-UP DRAWINGS FOR ALL APPLICABLE CHANGES OR DEVIATIONS FROM CONTRACT DRAWINGS.
9. CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT THE PROJECT IN A SAFE MANNER SO THAT THE EXISTING STRUCTURE IS NOT DAMAGED IN ANY WAY. CONTRACTOR SHALL PERFORM ANY NECESSARY TESTING AND ENGAGE A QUALIFIED PROFESSIONAL TO PROVIDE CONSTRUCTION GUIDANCE. ALL DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION ENTIRELY AT THE CONTRACTOR'S EXPENSE.

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PERMIT SUBMISSION: 06-21-01, 06-27-01, 08-14-02, 03-28-02

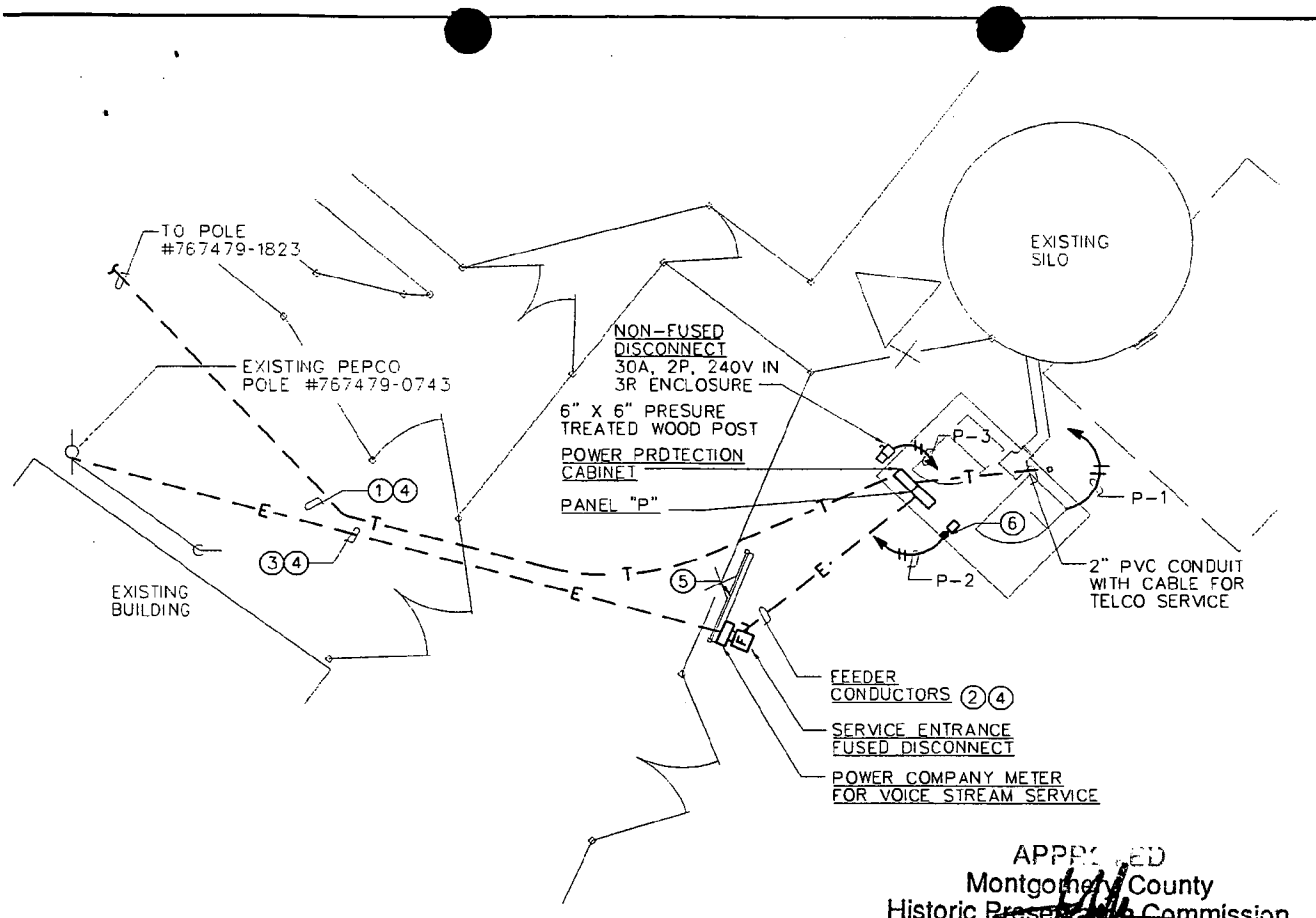
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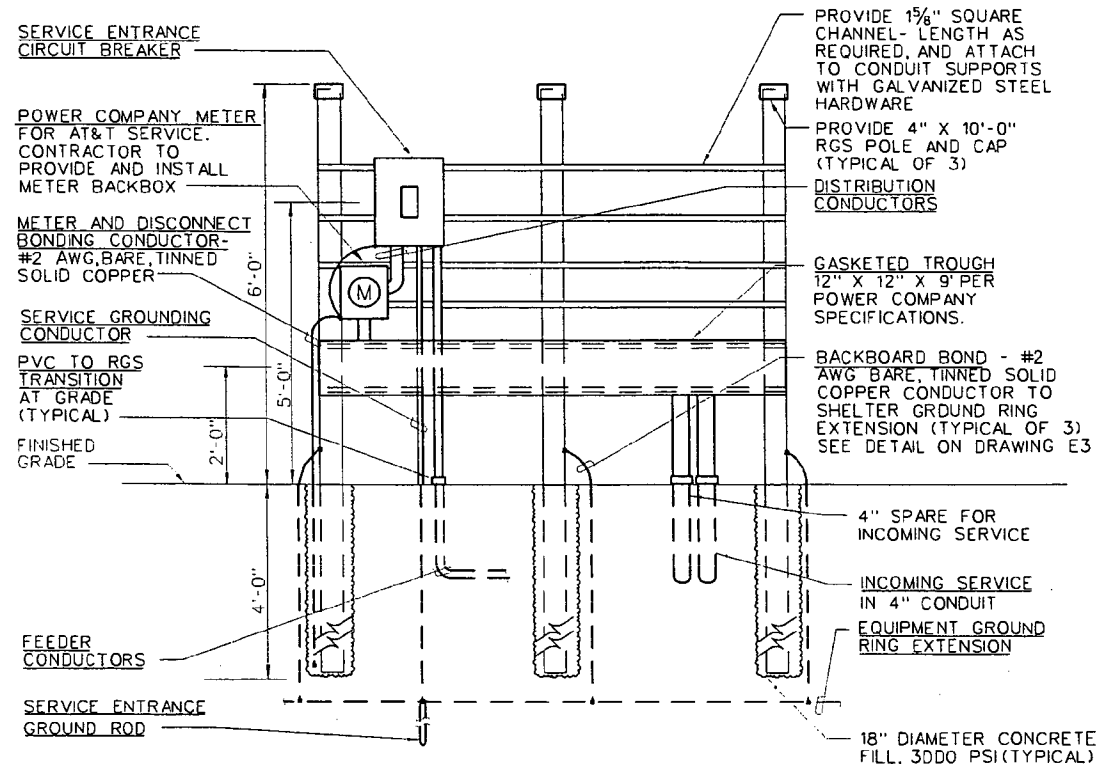
ANTENNA MOUNTING
PLAN, SECTIONS AND DETAILS
DRAWING NO. GC2
CHECKED BY: [Signature]
DESIGNED BY: [Signature]
PROJECT NO. 1600013-74
SCALE: AS SHOWN
DATE: 06/21/01

SITE WAN 162B
REDLAND-
FRALEY FARM
UNMANNED WIRELESS
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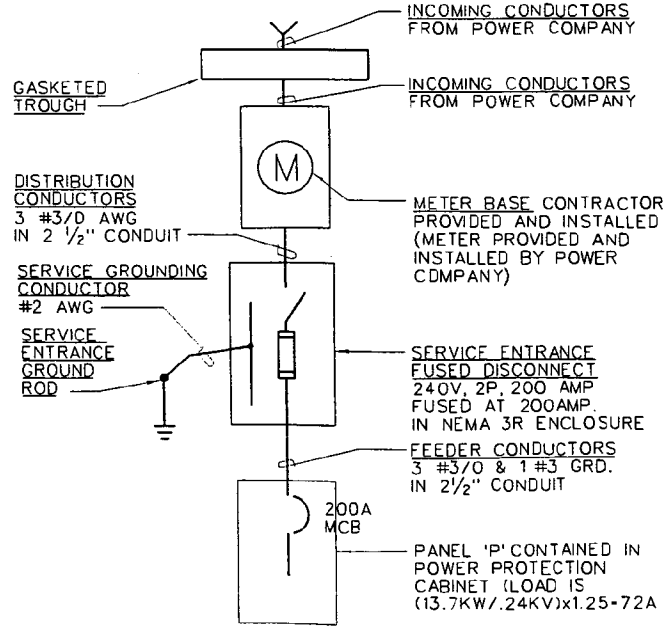


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 Montgomery County
 Historic Preservation Commission

POWER AND TELCO PLAN
 SCALE = 1" = 1'-0"



ELEVATION - MULTIPLE METER BACKBOARD
 NOT TO SCALE



ONE-LINE DIAGRAM
 NOT TO SCALE

LEGEND

- CONDUCTOR AS INDICATED IN PLAN
- BURIED GROUND/BONDING CONDUCTOR-SIZED AS INDICATED IN PLAN
- GROUND ROD
- BELOW GRADE OR EXPOSED BONDING CONNECTION (SEE GENERAL NOTE 8)
- GROUND TEST PIT
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND TELEPHONE CONDUIT
- SEE DRAWING NOTE OF SAME NUMBER
- POWER COMPANY METER

ABBREVIATIONS

- AC - ALTERNATING CURRENT
- AFG - ABOVE FINISHED GRADE
- AWG - AMERICAN WIRE GAUGE
- ACC - AMPERES INTERRUPTING CAPACITY
- BFG - BELOW FINISHED GRADE
- BKR - BREAKER
- CAT. - CATALOG
- C. COND - CONDUIT
- CKT - CIRCUIT
- EMT - ELECTRICAL METALLIC TUBING
- EST. - ESTIMATED
- GRD - GROUND
- MCB - MAIN CIRCUIT BREAKER
- MGB - MASTER GROUND BAR
- NEC - NATIONAL ELECTRICAL CODE
- NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- No. - NUMBER
- PVC - POLYVINYL CHLORIDE
- RGS - RIGID GALVANIZED STEEL
- UL - UNDERWRITERS LABORATORIES

ELECTRICAL SPECIFICATIONS

- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE COMPLETE INSTALLATION AND OPERATION OF ALL ELECTRICAL WORK.
- B. CONFORM TO THE REQUIREMENTS OF ALL RULES, REGULATIONS, AND CODES OF LOCAL, STATE, AND FEDERAL AUTHORITIES HAVING JURISDICTION. CONFORM TO THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION LATEST EDITIONS.
- C. COORDINATE THE WORK OF ALL TRADES.
- D. THE CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ALL OFFSETS, BENDS AND FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. PROVIDE ALL SUCH ITEMS AS MAY BE REQUIRED TO FIT THE WORK TO THE CONDITIONS.
- E. MATERIAL AND EQUIPMENT INSTALLED AS A PART OF THE PERMANENT INSTALLATION SHALL BE NEW, UNLESS OTHERWISE INDICATED OR SPECIFIED, AND SHALL BE LISTED BY THE UNDERWRITER'S LABORATORY INC., FOR INSTALLATION IN EACH PARTICULAR CASE, WHERE STANDARDS HAVE BEEN ESTABLISHED.
- F. WIRE, UNLESS OTHERWISE INDICATED SHALL BE 600 VOLTS, TYPE THWN INSULATION. CONDUCTORS SHALL BE SIZED AND RUN AS INDICATED. CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY.
- G. GUARANTEE THE COMPLETE ELECTRICAL SYSTEM FREE FROM ALL MECHANICAL AND ELECTRICAL DEFECTS FOR THE PERIOD OF ONE YEAR BEGINNING FROM THE DAY OF FINAL ACCEPTANCE OF THE WORK OR BENEFICIAL USE BY THE OWNER, WHICHEVER OCCURS FIRST.
- H. OBTAIN, PAY FOR, AND DELIVER ALL PERMITS, CERTIFICATES OF INSPECTION, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- I. CONTRACTOR SHALL COORDINATE ALL GROUNDING, POWER AND TELCO TERMINATIONS AT EQUIPMENT WITH EQUIPMENT INSTALLER PRIOR TO ROUGHING IN.
- J. PRIOR TO BEGINNING WORK CONTRACTOR SHALL COORDINATE ALL POWER AND TELEPHONE WORK. ALL CONTRACTOR WORK SHALL COMPLY WITH THE RULES AND REGULATIONS OF UTILITIES INVOLVED.
- K. ALL DIRECT BURIED CONDUITS SHALL BE SCHEDULE 40 PVC. ALL EXTERIOR CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT), OR RIGID GALVANIZED STEEL (RGS) WHERE NOTED.
- L. TRENCHING FOR ALL CONDUITS SHALL BE MINIMIZED.

DRAWING NOTES

- ① EXTEND A 4" CONDUIT FROM POLE #767479-1823 (APPROX. 500' NW) CONTRACTOR SHALL PROVIDE AND INSTALL 2-6 PAIR, INDIVIDUALLY SHIELDED 24 GAUGE COPPER CABLE FOR TELCO SERVICE, PER OMNIPPOINT SPECIFICATIONS, FROM TELCO BOX TO EQUIPMENT VIA POWER PROTECTION CABINET. PROVIDE PULL BOXES AS REQUIRED.
- ② PROVIDE UNDERGROUND 1-2 1/2" CONDUIT WITH CONDUCTORS FROM SERVICE ENTRANCE DISCONNECT ON MULTIPLE METER BACKBOARD TO THE PDWER PROTECTION CABINET. SEE "ONE-LINE DIAGRAM", ON THIS DRAWING, FOR NO. AND SIZE OF WIRES.
- ③ EXTEND 2 - 4" UTILITY CONDUITS FROM EXISTING BGE POLE #767479-0743 (APPR. 60') TO METER AND TERMINATE ACCORDING TO THE UTILITY COMPANY'S SPECIFICATIONS. ALL CONNECTIONS AND TERMINATIONS BY UTILITY COMPANY. SEE "ELEVATION EXISTING BACKBOARD", THIS DRAWING, FOR SERVICE REQUIREMENTS.
- ④ CONTRACTOR SHALL COORDINATE ALL TRENCHING ACTIVITIES WITH EXISTING BURIED GROUND AND UTILITY SYSTEMS. ANY CONTRACTOR CAUSED DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO OMNIPPOINT. ALL UNDERGROUND CONDUITS SHALL BE A MINIMUM OF 30" BFG. CONTRACTOR SHALL FIELD COORDINATE OMNIPPOINT UTILITIES TO EQUIPMENT PRIOR TO TRENCHING.
- ⑤ SEE "ELEVATION - MULTIPLE METER BACKBOARD" ON THIS DRAWING.
- ⑥ PROVIDE QUARTZ FIXTURE QL1505-L15 WITH S302 SLIP FITTER ON POLE NUMBER SSP410POM51 AS MANUFACTURED BY HUBBELL. ATTACH MOTION DETECTOR PSWM-140-B @ 6' AFG AS MANUFACTURED BY HUBBELL.

SCHEDULE OF PANEL 'P' NEMA 3R						
22,000 AIC* 120/240 VOLTS, 1 PHASE, 3 WIRE 2DOA MCB						
CKT. NO.	EQUIPMENT SERVED	PHASE & VOLTS	CKT. & POLES	BKR. TRIP	WIRING NO.	SIZE (COND.)
1	CABINET NO.1	1Ø240V	2	40	3 1 8 10	1"
2	LIGHT FIXTURE	1Ø120V	1	20	2 1 12 12	3/4"
3	TELCO POST	1Ø120V	1	30	2 1 10 10	3/4"
4	FUTURE CABINET NO. 2	1Ø240V	2	40	- - -	-
5	SPARE	1Ø120V	1	20	- - -	-
6-28	SPACE	-	1	-	- - -	-

POWER AND TELCO

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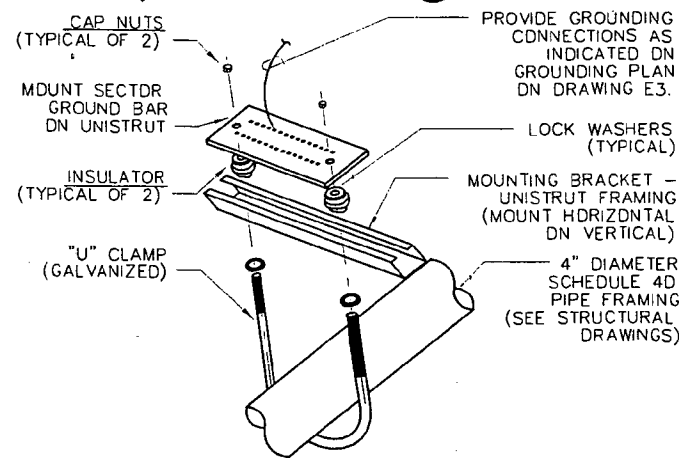
SCHEDULE OF REVISIONS

1600013-74

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SITE WAN 162B REDLAND-FRALEY FARM

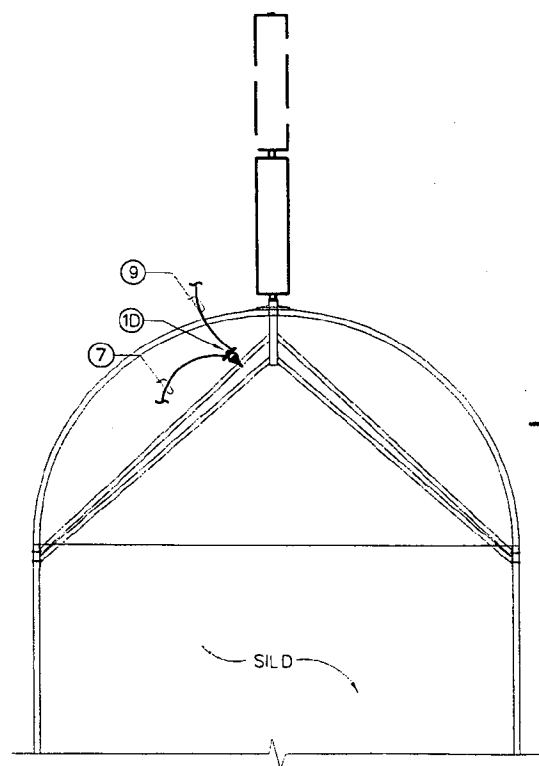
17800 BOWE MILL ROAD OCEANVIEW, MD 20685



NOTE: DISSIMILAR METALS MUST BE PROTECTED WITH A COATING OF NO-OX COMPOUND.

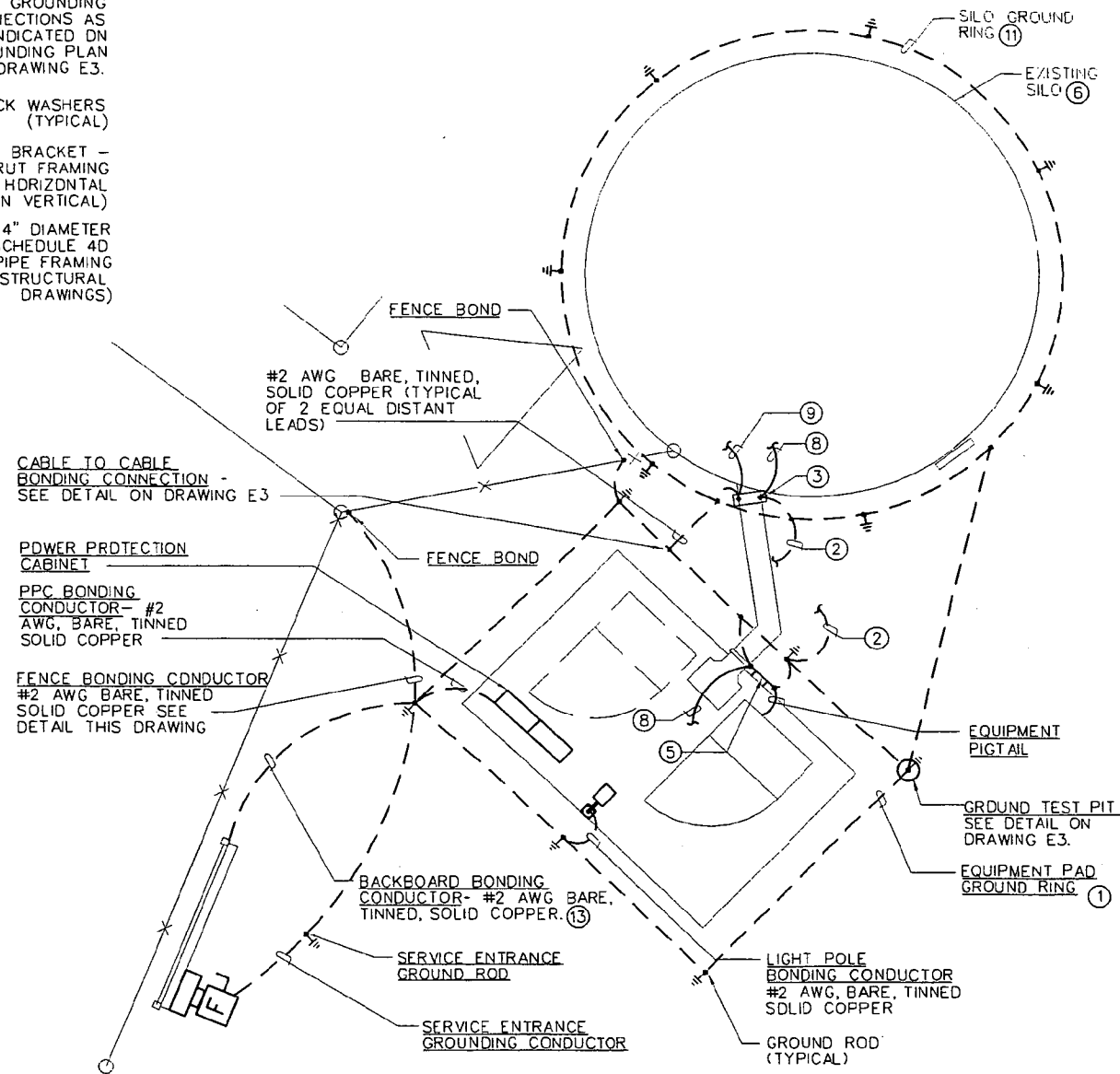
DETAIL - ANTENNA GROUND BAR MOUNTING IN SILO

NOT TO SCALE



DETAIL- ANTENNA GROUND BAR MOUNTING

NOT TO SCALE

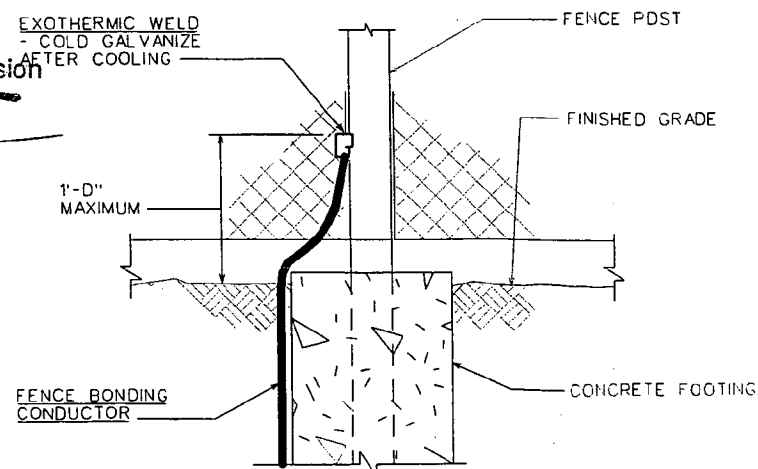


GROUNDING PLAN

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



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**Montgomery County
 Historic Preservation Commission**



NOTE: INSTALLATION SHALL BE SIMILAR FOR BONDING TO ICE BRIDGE POST, AND ELECTRICAL BACKBOARD.

DETAIL - FENCE BONDING

NOT TO SCALE

GENERAL GROUNDING NOTES:

1. COAXIAL ANTENNA CABLES SHALL BE GROUNDED BY PROVIDING AN END CONNECTION TO A 36" GROUNDING CABLE REQUIRING FIELD ATTACHABLE CRIMP ON TWO HOLE LUGS. GROUNDING CABLE SHALL BE FIELD CUT TO SHORTEST LENGTH POSSIBLE WHILE MAINTAINING THE STRAIGHTEST POSSIBLE ROUTE TO GROUND BUS. CONNECTIONS TO GROUND BAR SHALL NOT BE DOUBLED-UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR ARE PERMITTED.
2. ALL BENDS IN PROTECTION GROUNDING CONDUCTORS SHOULD BE MADE WITH THE GREATEST PRACTICAL RADIUS AND SHOULD NOT BE LESS THAN ONE (1) FOOT. WHEN THE ONE (1) FOOT MINIMUM IS NOT PRACTICAL, THE MINIMUM SHALL NOT BE LESS THAN SIX (6) INCHES.
3. USE OF 90° BENDS IN PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
4. ALL CONNECTIONS TO SECTOR AND MGB GROUND BAR SHALL BE MADE INCORPORATING LONG BARREL TWO (2) HOLE CRIMP TYPE LUG CONNECTORS. ALL BONDING CONNECTIONS SHALL BE MADE USING STAINLESS STEEL NUTS AND BOLTS. CORROSION INHIBITOR SHALL BE APPLIED BETWEEN NUTS AND BOLTS AND GROUND BUS.
5. GROUND RODS SHALL BE 1/2" x 10'-0" MINIMUM COPPER CLAD STEEL. GROUND RODS SHALL BE LOCATED ON 10'-0" CENTERS.
6. ALL BELOW-GRADE CONNECTIONS SHALL BE EXOTHERMIC WELD TYPE. EXOTHERMIC WELD CONNECTIONS SHALL ALSO BE REQUIRED WHERE INDICATED. ALL BELOW-GRADE, EXOTHERMIC WELD CONNECTIONS SHALL BE MADE USING ERICO CADWELD "DNE-SHOT" CONNECTIONS. ALL EXPOSED EXOTHERMIC WELD CONNECTIONS SHALL BE SPRAYED WITH COLD-GALVANIZED AFTER COOL DOWN.
7. WHEN A BELOW-GRADE CONNECTION IS REQUIRED AT A LOCATION IN WHICH A 10'-0" GROUND ROD HAS NOT BEEN PROVIDED, A 1'-0" SECTION OF GROUND ROD SHALL BE USED. THIS METHOD WILL ASSURE THAT ALL BELOW-GRADE CONNECTIONS CAN BE ACCOMPLISHED USING ERICO CADWELD "DNE SHOT" MOLDS. REFER TO "DETAIL - CABLE TO CABLE BONDING CONNECTION".
8. GROUND ROD SHIELD SHALL BE USED WHEN DRIVING GROUND RODS TO PREVENT THE ENDS FROM "MUSHROOMING." GROUND RODS SHALL BE DRIVEN STRAIGHT DOWN (90° FROM FINISHED GRADE). WHEN SOIL CONDITIONS PREVENT DRIVING GROUND RODS STRAIGHT, RODS MAY BE DRIVEN AT A 45° ANGLE FROM FINISHED GRADE. TOPS OF GROUND RODS SHALL BE THE SAME DEPTH AS GROUND RINGS (A MINIMUM OF 30" BELOW FINISHED GRADE).
9. ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE SO THAT THE BOLT HEAD IS ON THE FRONT FACE OF THE BUS. THE FRONT FACE OF THE BAR SHALL BE CONSIDERED THE SIDE AWAY FROM THE SILO OR THE SIDE CLOSEST TO THE ICE BRIDGE.
10. THE MAXIMUM RESISTANCE OF THE COMPLETED GROUNDING SYSTEM SHALL NOT EXCEED 5 OHMS ON ANY PART OF THE SYSTEM. IF, DUE TO SOIL CONDITIONS OR THE OTHER PARAMETERS, THIS MAXIMUM VALUE IS EXCEEDED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS.

DRAWING NOTES:

1. EQUIPMENT PAD GROUND RING. #2 AWG, BARE, TINNED, SOLID COPPER 30" BFG. PROVIDE GROUND RING AT 2'-0" OUTSIDE EQUIPMENT PAD AND 30" BFG.
2. PROVIDE BONDING CONNECTION TO ICE BRIDGE POST. SEE "DETAIL - ICE BRIDGE MOUNTED GROUND BAR" DETAIL ON DRAWING E3. PROVIDE AT EACH ICE BRIDGE POST. (TWO SHOWN). #2 AWG, BARE, TINNED, SOLID COPPER. (30" BFG).
3. COORDINATE INSTALLATION OF ICE BRIDGE MOUNTED GROUND BAR WITH COAXIAL ANTENNA CABLE EXIT FROM SILO. PROVIDE MGB BONDING CONDUCTORS - #2 AWG, BARE, TINNED, SOLID COPPER GROUND TO SILO GROUND RODS (2 PLACES) AND CONNECT.
4. NOT USED
5. EQUIPMENT GROUND BAR FOR MOUNTING SEE "DETAIL - MGB GROUND BAR MOUNTING" ON DRAWING E3.
6. FOR ANTENNA PROTECTION GROUNDING REQUIREMENTS, SEE "DETAIL - COAXIAL ANTENNA CABLE GROUNDING AND GROUND BAR CONNECTIONS", ON DRAWING E3. FOR ROUTING, LOCATION, AND CONNECTION SEE "ANTENNA GROUND BAR MOUNTING" ON DRAWING E3.
7. PROVIDE BONDING CONNECTION OF ANTENNA GROUNDING SYSTEM TO ICE BRIDGE MOUNTED GROUND BAR. ROUTE #2 INSULATED, STRANDED COPPER DOWN SILO LEG WITH COAX CABLES. FOR CONTINUATION SEE DRAWING NOTE B ON THIS DRAWING. FOR INSTALLATION SEE "ANTENNA GROUND BAR MOUNTING", ON DRAWING E3.
8. #2 AWG INSULATED STRANDED COPPER BONDING CONDUCTOR CONTINUED FROM DRAWING NOTE 7, ON THIS DRAWING. FOR INSTALLATION SEE "ANTENNA GROUND BAR MOUNTING", ON DRAWING E3.
9. PROVIDE BONDING CONNECTION TO OUTER CONDUCTOR OF COAXIAL ANTENNA CABLE (TYPICAL OF 3 AT ICE BRIDGE MOUNTED GROUND BARS AND AT ANTENNA GROUND BAR, WITH PROVISION FOR 3 FUTURE.). SEE GENERAL GROUNDING NOTE NO. 1. PROVIDE CONNECTION PRIOR TO CABLES TURNING HORIZONTAL AT BASE OF SILO AND AT ANTENNA GROUND BAR PROVIDE CONNECTION WITHIN 10'-0" OF ANTENNA.
10. COORDINATE EXACT ANTENNA GROUND BAR MOUNTING AND LOCATION WITH STRUCTURAL DRAWINGS. MOUNT ANTENNA GROUND BAR ON MOLDED POLYESTER FIBERGLASS INSULATORS. SEE DETAIL "ANTENNA GROUND BAR MOUNTING" ON THIS DRAWING.
11. SILO GROUND RING - PROVIDE AT 30" BFG AND 2'-0" OUTSIDE OF FOUNDATION CAISSON.
12. SILO BOND - SEE DETAIL THIS DRAWING.
13. MULTIPLE-METER BACKBOARD BONDING - FOR ELECTRICAL COMPONENTS AND BONDING DETAILS SEE "ELEVATION - MULTIPLE METER BACKBOARD" ON DRAWING E1.

DRAWING TITLE		GROUNDING	
DATE	SCALE	DRAWING NO.	E2
DESIGNED BY	DATE	PROJECT NO.	1600013-74
CHECKED BY	DATE	SCALE	AS SHOWN
APPROVED BY	DATE	PROJECT NO.	1600013-74
DATE	SCALE	PROJECT NO.	1600013-74
DATE	SCALE	PROJECT NO.	1600013-74

**SITE WAN 162B
 REDLAND-FRALEY FARM
 UNMANNED WIRELESS COMMUNICATION SITE**

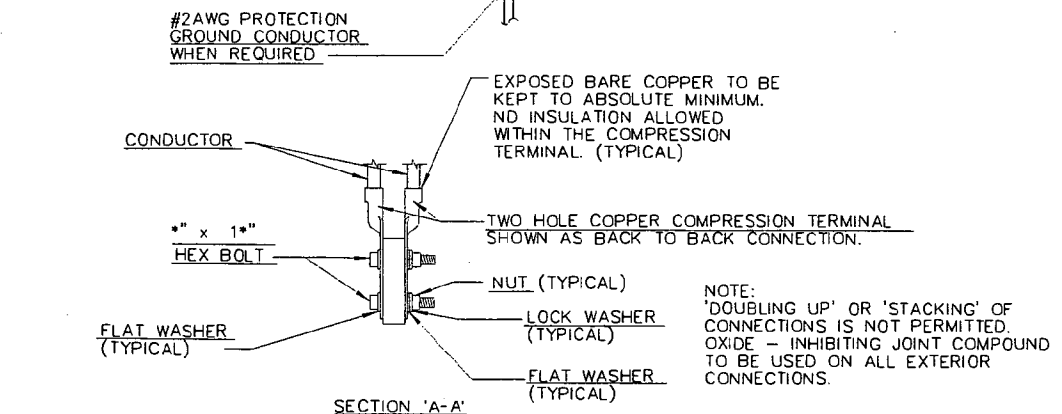
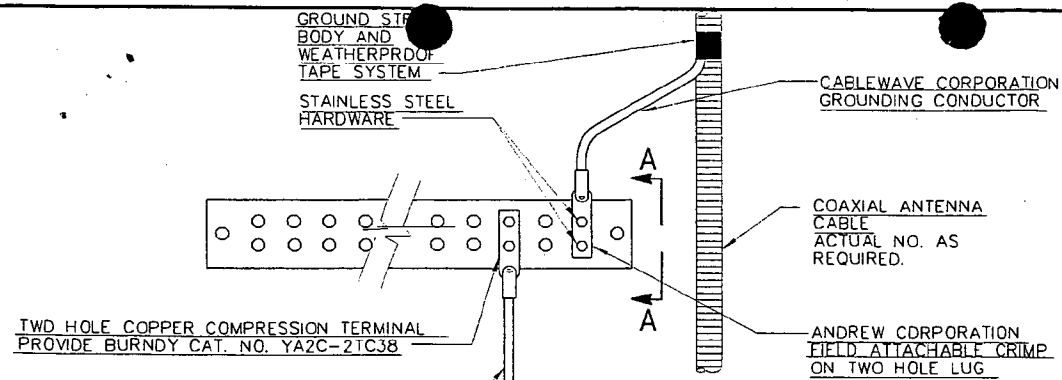
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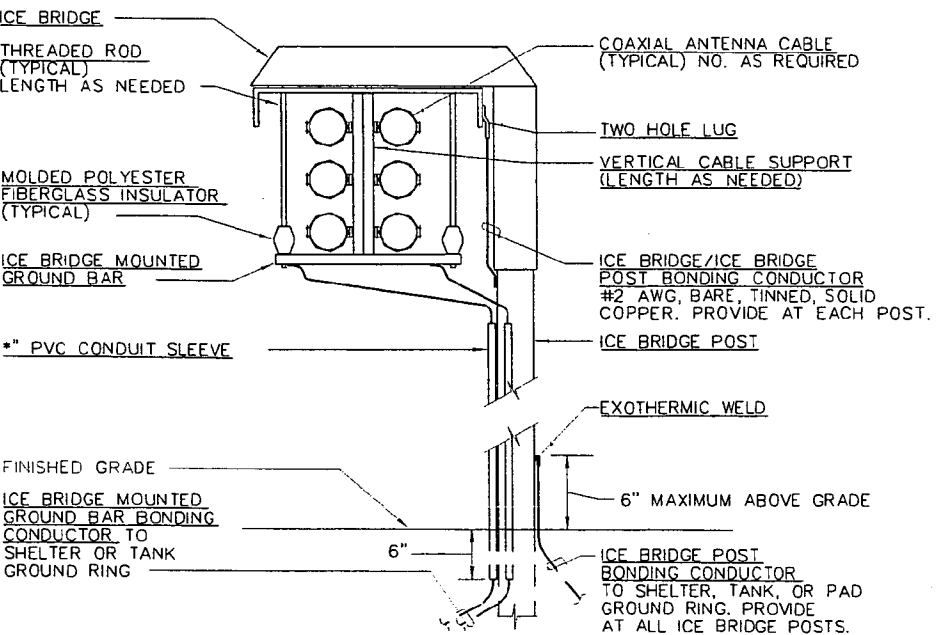
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100% SUBMISSION	06-27-01	ISSUE NO.	3
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SCHEDULE OF REVISIONS		ISSUE NO.	5

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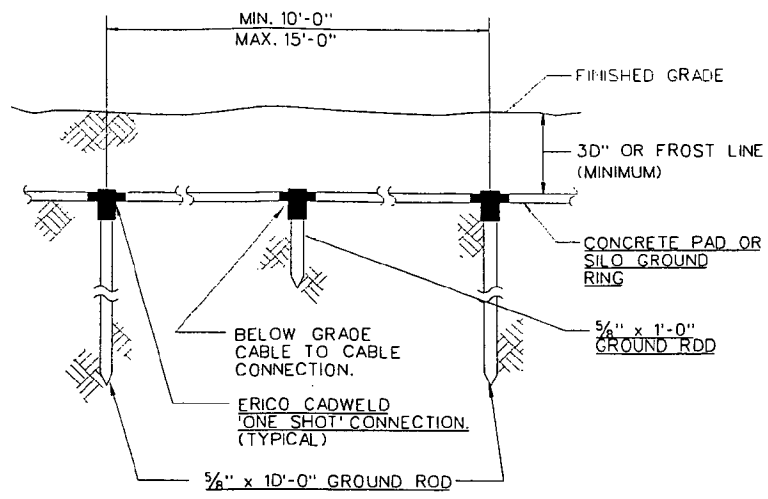
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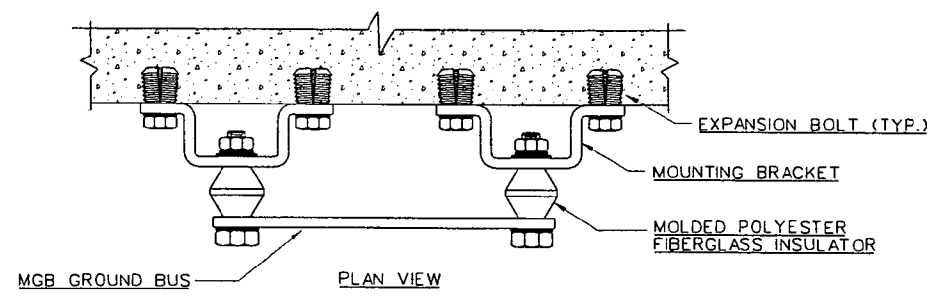
**DETAIL
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AND GROUND BAR CONNECTIONS**
NOT TO SCALE



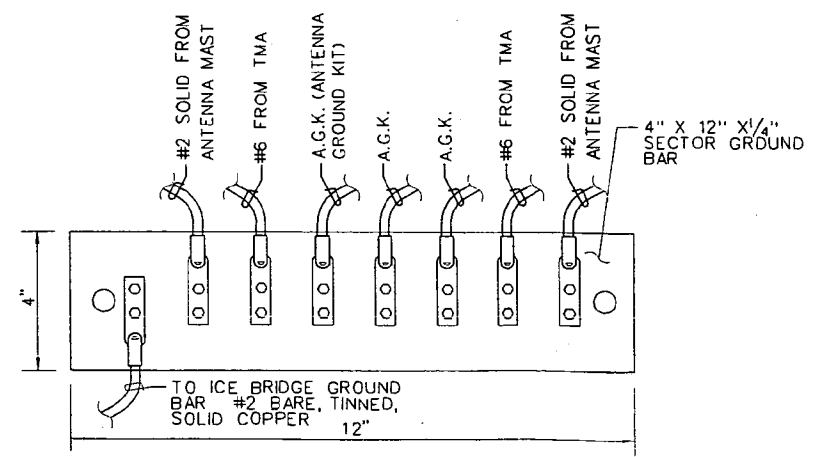
**DETAIL -
ICE BRIDGE MOUNTED
GROUND BAR**
NOT TO SCALE



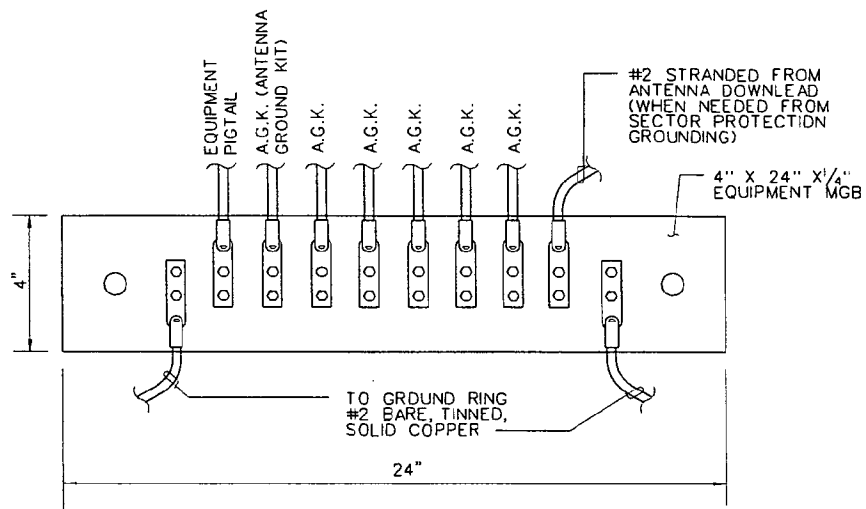
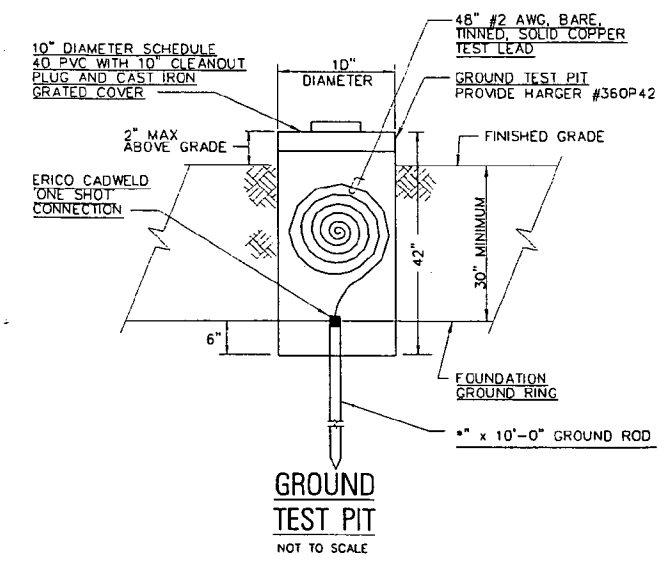
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CABLE TO CABLE BONDING CONNECTION**
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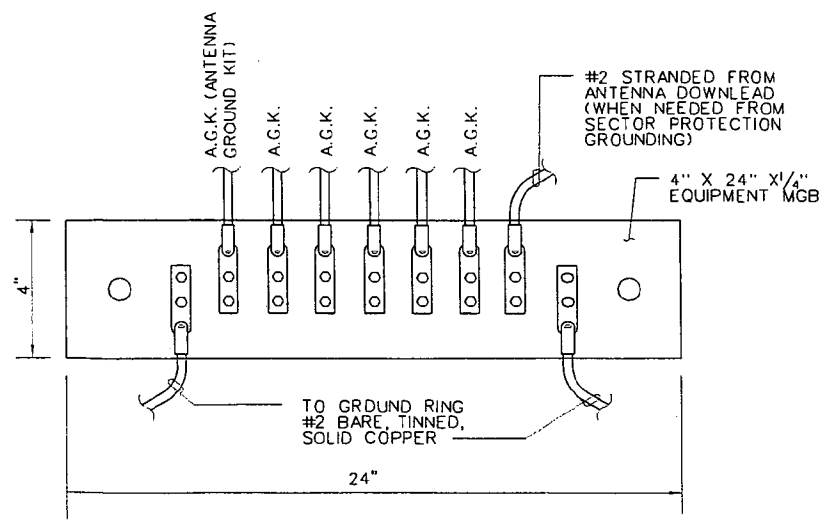
**DETAIL
MGB GROUND BAR MOUNTING**
NOT TO SCALE



SECTOR GROUND BAR CONNECTIONS
NOT TO SCALE



EQUIPMENT MGB CONNECTIONS
NOT TO SCALE



ICE BRIDGE MGB CONNECTIONS
NOT TO SCALE

Montgomery County
Historic Preservation Commission

DETAILS	
DRAWING NO. E3	DATE
DESIGNED BY: JTC	CHECKED BY: JTC
DRAWN BY: JTC	DATE: 05-31-01
PROJECT NO. 1600013-74	SCALE: AS SHOWN
DATE FILED: 06/01/01 14:13:00	

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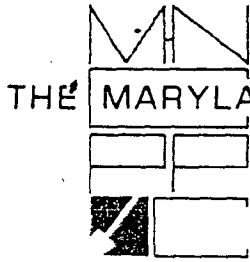
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95% SUBMISSION: 05-31-01
100% SUBMISSION: 06-21-01, 08-27-01, 03-14-02, 03-28-02
PERMIT SUBMISSION

NO.	DATE	BY	REVISION
1			
2			
3			
4			
5			

1600013-74
**OMNIPONT
OPERATIONS, LLC**
SITE WAN 162B
REDLAND-FRALEY FARM
17000 BOWEN HILL ROAD
GERFOLD, MD 20835

FILE



THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION
8787 Georgia Avenue • Silver Spring, Maryland 20910-3760

Date: 6/20/01

MEMORANDUM

TO: Robert Hubbard, Director
Department of Permitting Services

FROM: Gwen Wright, Coordinator
Historic Preservation

SUBJECT: Historic Area Work Permit

HPC# 22/17-01A DPS# 240172

The Montgomery County Historic Preservation Commission has reviewed the attached application for an Historic Area Work Permit. This application was:

 Approved

X Approved with Conditions: ANTENNA CASING AT TOP OF DOME
TO BE A MATTE ^{BLUE} COLOR TO BE APPROVED AT STAFF LEVEL.

→ SHERWIN WILLIAMS EXTERIOR SKYLARK SW2460

② PVC HOUSING WILL BE ATTACHED CLOSE TO EXISTING LOADING TUBE & WILL MATCH SILO COLOR. SHED COLOR TO MATCH EXISTING SHED.

and HPC Staff will review and stamp the construction drawings prior to the applicant's applying for a building permit with DPS; and

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE APPROVED HISTORIC AREA WORK PERMIT (HAWP).

Applicant: H. H. FRAVEY (DEANE MELLANDER, AGENT)

Address: 17800 BOWIE MILL RD, DERWOOD

and subject to the general condition that, after issuance of the Montgomery County Department of Permitting Services (DPS) permit, the applicant arrange for a field inspection by calling the Montgomery County DPS Field Services Office at 240-777-6210 or online @ permits.emontgomery.org prior to commencement of work and not more than two weeks following completion of work.



HISTORIC PRESERVATION COMMISSION
301/563-3400

APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact Person: Deane Mellander

Daytime Phone No.: 240-264-8658

Tax Account No.: 08-00706980

Name of Property Owner: H. H. Fraley, etal (Kenneth Fraley) Daytime Phone No.: 301-963-0021

Address: 17800 Derwood Bowie Mill Rd 20855
Street Number City Street Zip Code

Contractor: Omnipoint Communications Cap, LLC Phone No.: 240-264-8658

Contractor Registration No.: _____

Agent for Owner: Maureen K. Smith Daytime Phone No.: 240-264-8611

Address: 12050 Baltimore Avenue, Beltsville, MD 20705

LOCATION OF BUILDING/PREMISE

House Number: 17800 Street: Bowie Mill Rd.

Town/City: Derwood Nearest Cross Street: Fraley Farm Rd.

Lot: _____ Block: _____ Subdivision: _____

Liber: 2610 Folio: 415 Parcel: 222

PART ONE: TYPE OF PERMIT ACTION AND USE

IA. CHECK ALL APPLICABLE:

- Construct Extend Alter/Renovate
 Move Install Wreck/Raze
 Revision Repair Revocable

CHECK ALL APPLICABLE:

- A/C Slab Room Addition Porch Deck Shed
 Solar Fireplace Woodburning Stove Single Family
 Fence/Wall (complete Section 4) Other: Telecommunications Facility

IB. Construction cost estimate: \$ 45,000

IC. If this is a revision of a previously approved active permit, see Permit # _____

PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS

2A. Type of sewage disposal: 01 WSSC 02 Septic 03 Other: N/A

2B. Type of water supply: 01 WSSC 02 Well 03 Other: N/A

PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL

3A. Height _____ feet _____ inches

3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:

- On party line/property line Entirely on land of owner On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

Deane E. Mellander
Signature of owner or authorized agent

5/24/01
Date

Approved: N/CONDITIONS Chairperson, Historic Preservation Commission

Disapproved: _____ Signature: _____ Date: 6/20/01

Application/Permit No.: 249172 Date Filed: _____ Date Issued: _____

1. WRITTEN DESCRIPTION OF PROJECT

a. Description of existing structure(s) and environmental setting, including their historical features and significance:

The site is identified as Flint Hill II, Atlas #22/17. The primary resource is the farmhouse, which dates to the early 19th century. An environmental setting of approx. 8 acres is included, which encompasses all of the farm outbuildings, including the subject silo. The silo is approximately 400' from the house. It is of modern concrete construction. The silo is approximately 450' from Bowie Mill Rd.

b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district:

Voicestream proposes to install a telecommunications antenna array at the top of the silo. The array will be about 12' tall and 18" in diameter. The coaxial cables will be run down the side of the silo in one or two grey PVC pipes. At the base, a 10' x 15' 3-sided lean-to shelter will enclose 2 equipment cabinets. The shelter will be compatible in style and color to the existing outbuildings. As per Code, all items must be removed at applicant's expense if the facility ceases to

2. SITE PLAN function.

Site and environmental setting, drawn to scale. You may use your plat. Your site plan must include:

- a. the scale, north arrow, and date;
- b. dimensions of all existing and proposed structures; and
- c. site features such as walkways, driveways, fences, ponds, streams, trash dumpsters, mechanical equipment, and landscaping.

3. PLANS AND ELEVATIONS

You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.

- a. Schematic construction plans, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.
- b. Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, context. All materials and fixtures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

4. MATERIALS SPECIFICATIONS

General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

5. PHOTOGRAPHS

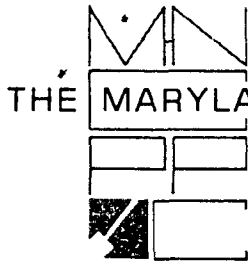
- a. Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.
- b. Clearly label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the front of photographs.

6. TREE SURVEY

If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

7. ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS

For ALL projects, provide an accurate list of adjacent and confronting property owners (not tenants), including names, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel in question. You can obtain this information from the Department of Assessments and Taxation, 51 Monroe Street, Rockville, (301/279-1355).



THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION
8787 Georgia Avenue • Silver Spring, Maryland 20910-3760

Date: 6/20/01

MEMORANDUM

TO: Historic Area Work Permit Applicants

FROM: Gwen Wright, Coordinator
Historic Preservation Section

SUBJECT: Historic Area Work Permit Application - Approval of Application/Release of
Other Required Permits

HPC # 22/17-01A DPS # 249172

Enclosed is a copy of your Historic Area Work Permit application, approved by the Historic Preservation Commission at its recent meeting, and a transmittal memorandum stating conditions (if any) of approval.

You may now apply for a county building permit from the Department of Permitting Services (DPS) at 255 Rockville Pike, second floor, in Rockville. Prior to your permit submission, you must present Historic Preservation staff with 3 permit sets of drawings for review and stamping. In addition, please note that although your work has been approved by the Historic Preservation Commission, it must also be approved by DPS before work can begin.

When you file for your building permit at DPS, you must take with you the enclosed forms, as well as the Historic Area Work Permit that will be mailed to you directly from DPS. These forms are proof that the Historic Preservation Commission has reviewed your project. For further information about filing procedures or materials for your county building permit review, please call DPS at 240-777-6370.

If your project changes in any way from the approved plans, either before you apply for your building permit or even after the work has begun, please contact the Historic Preservation Commission staff at 301-563-3400.

Please also note that you must arrange for a field inspection for conformance with your approved HAWP plans. Please inform DPS/Field Services at 240-777-6210 or online @ permits.emontgomery.org of your anticipated work schedule.

Thank you very much for your patience and good luck with your project!

HISTORIC PRESERVATION COMMISSION STAFF REPORT

Address:	17800 Bowie Mill Road, Derwood	Meeting Date:	06/13/01
Resource:	Master Plan Site # 22/17 Flint Hill II	Report Date:	06/06/01
Review:	HAWP	Public Notice:	05/30/01
Case Number:	22/17-01A	Tax Credit:	None
Applicant:	H.H. Fraley (Deane Mellander, Agent)	Staff:	Michele Naru

PROPOSAL: Antenna Installation**RECOMMEND:** ApproveW
CONDITIONS.**PROJECT DESCRIPTION**

SIGNIFICANCE: Master Plan Site # 22/17, Flint Hill II
STYLE: Italianate
DATE: E 1800

The subject site is identified in the Master Plan for Historic Preservation as Site 22/17, Flint Hill II. The environmental setting is approximately 8 acres and includes the house, a large bank barn and almost all the other outbuildings, including the silo that is the subject of this proposal.

PROPOSAL:

The applicant proposes to install a telecommunications transmission facility, which entails:

1. Mounting 6 antennae above the top of the existing silo.
2. Running coaxial cables from the antennae, inside the silo dome to the top of the silo structure and through grey, PVC pipes affixed to the side of the silo to the ground equipment.
3. Constructing a 10 x 15, 3-sided, lean-to shelter to house the facility's equipment cabinets. The lean-to shelter will be of frame construction clad in embossed aluminum, painted red with a corrugated metal roof.

STAFF DISCUSSION

This application is a unique proposal for the Commission. Generally, these towers are very obtrusive and impact negatively on our historic landscapes. In this case, staff feels that the applicant has addressed these concerns and has submitted an application that is more sensitive to the existing historic structures and their environmental setting. Staff notes that the silo itself is out of the period of significance for this site, being about 30 years old according to the property owner, Mr. Fraley. It is of concrete construction with a sheet metal dome. Additionally, this silo is unusually tall, which in staff's opinion, aids in the success of this proposal. Staff recognizes that this type of project may not be successful in every case.

These antennas are removable and do not pose any negative effects on the existing structure. In addition, the proposed antenna installation will not affect the current farming operations. The silo will be actively used while the facility is operational.

Futhermore, this proposed facility will generate additional revenue for the property owner, which will only serve to be beneficial for the maintenance of the historic structures on the property.

Staff recommends approval.

STAFF RECOMMENDATION

Staff recommends that the Commission *approve* the HAWP application as being consistent with Chapter 24A-8(b)2:

The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter,

and with the Secretary of the Interior Guidelines #2 and #9:

The historic character of a property shall be retained and preserved. The removal of historic materials or alterations of features and spaces that characterize a property shall be avoided.

New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.

With the general condition that **the applicant shall present the 3 permit sets of drawings to HPC staff for review and stamping prior to submission for building permits**, and that, after issuance of the Montgomery County Department of Permitting Services (DPS) permit, the applicant will arrange for a field inspection by calling the DPS Field Services Office at (240) 777-6210 or online at www.permits.emontgomery.org prior to commencement of work and not more than two weeks following completion of work.

②



HISTORIC PRESERVATION COMMISSION

301/563-3400

APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact Person: Deane Mellander

Daytime Phone No.: 240-264-8658

Tax Account No.: 08-00706980

Name of Property Owner: H. H. Fraley, etal (Kenneth Fraley) Daytime Phone No.: 301-963-0021

Address: 17800 Derwood Bowie Mill Rd 20855
Street Number City Street Zip Code

Contractor: Omnipoint Communications Cap, LLC Phone No.: 240-264-8658

Contractor Registration No.:

Agent for Owner: Maureen K. Smith Daytime Phone No.: 240-264-8611

Address: 12050 Baltimore Avenue, Beltsville, MD 20705

LOCATION OF BUILDING/PREMISE

House Number: 17800 Street: Bowie Mill Rd.

Town/City: Derwood Nearest Cross Street: Fraley Farm Rd.

Lot: Block: Subdivision:

Liber: 2610 Folio: 415 Parcel: 222

PART ONE: TYPE OF PERMIT ACTION AND USE

1A. CHECK ALL APPLICABLE:

- Construct, Extend, Alter/Renovate, Move, Install, Wreck/Make, Revision, Repair, Revocable

CHECK ALL APPLICABLE:

- A/C, Stab, Room Addition, Porch, Deck, Shed, Solar, Fireplace, Woodburning Stove, Single Family, Fence/Wall, Other: Telecommunications Facility

1B. Construction cost estimate: \$ 45,000

1C. If this is a revision of a previously approved active permit, see Permit #

PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTEND/ADDITIONS

2A. Type of sewage disposal: 01 WSSC, 02 Septic, 03 Other: N/A

2B. Type of water supply: 01 WSSC, 02 Well, 03 Other: N/A

PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL

3A. Height feet inches

3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:

- On party line/property line, Entirely on land of owner, On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

Signature of owner or authorized agent

Date

Approved: For Chairperson, Historic Preservation Commission

Disapproved: Signature: Date:

Application/Permit No.: 249172 Date Filed: Date Issued:

Mailing List of Property Owners as of 5/7/01

Property Owner

Kenneth Fraley
17800 Bowie Mill Rd.
Derwood, MD 20855

Owner's Agent

VoiceStream Wireless
12050 Baltimore Avenue
Beltsville, MD 20705

Adjoining and Confronting Property Owners

John Baun
18405 Azalea Dr.
Derwood, MD 20855

Brian Gallant
5612 Silver Oak Ct.
Derwood, MD 20855
Myron Wolowitz
17705 Bowie Mill Rd.
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Barbara Hendry
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Bowie Mill Civic Assn.
c/o Thomas Welch
17500 Bowie Mill Rd.
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Nakul Goyal
17815 Fraley Farm Rd.
Derwood, MD 20855

Arvind Sitapara
17817 Fraley Farm Rd.
Derwood, MD 20855

Jerel Zlotnick
17821 Fraley Farm Rd.
Derwood, MD 20855



May 24, 2001

Omnipoint Communications CAP Operations, LLC, a subsidiary of VoiceStream Wireless, proposes to install a telecommunications transmission facility on a site at 17800 Bowie Mill Road. Normally, the Code allows installation of such a facility by right on existing non-residential structures in a residential zone, as long as the structure and antennae are at least 50 feet high (Sec. 59-A-6.14 of the Zoning Ordinance).

The subject site is identified in the Master Plan for Historic Preservation as Site 22/17, Flint Hill II. It was placed on the Master Plan by the County Council in 1983. The designation included the house, as well as a setting of approximately 6 – 8 acres, which encompasses the large bank barn and almost all the other accessory agricultural structures, including the silo that is the subject of this proposal.

The proposed telecommunications facility includes 6 antennae mounted above the top of the silo, along with equipment cabinets enclosed in a new shelter at ground level. The silo itself is not historic, being about 30 years old according to the property owner, Mr. Fraley. It is of concrete construction with a sheet metal dome.

In order to meet our coverage requirements for this service area, we need to have our antenna array centered at an elevation of 75 feet. The existing silo is 57.5 feet high, plus the height of dome cover, which is an additional ten feet. We propose to install an antenna array on top of the silo. The top of the antenna assembly would be approximately 12 feet higher than the top of the dome. The Zoning Ordinance allows antennas to extend up to 15 feet above the top of an existing structure. The antennae will be mounted against the support shaft, with an overall diameter of about 18 inches.

VoiceStream expects to install this facility in two stages. The first stage involves the installation of the antenna support shaft and the first 3 antennae at the top. The height would be 12 feet above the top of the dome. The shelter and slab for the ground equipment, plus one equipment cabinet, would also be installed in the first stage. In anticipation of an increase in our service requirements, our request includes 3 additional proposed antennae to be installed below the first set, and a second equipment cabinet placed in the shelter.

The electronic control cabinets for the antennae are located at ground level. VoiceStream attempted to locate these cabinets in an existing accessory structure. However, none of the existing structures close to the silo were suitable. Our cabinets are weatherproof, and do not need to be in a shelter. However, in this case we would propose to enclose them in a shelter compatible with the existing farm buildings. The shelter is proposed to be a

3-sided lean-to, with the open front facing toward the farmyard. The dimensions would be approximately 10 x 15 feet, 7 feet high at the rear and 9 feet high at the front. A concrete pad inside the lean-to structure will support the equipment cabinets. This design is compatible with an existing small barn just to the west, and the exterior surface would be finished in color and texture to be compatible with the existing structures. The proposed lean-to structure will be of the same character as other farm structures on the site. Because the shelter will be related to a telecommunications facility, it requires a building permit.

The coaxial cables that connect the antennae to the equipment cabinets will be run inside the silo dome to the top of the silo structure. The cables will then be run down the exterior of the silo in one or two gray PVC pipes to the ground equipment.

Our proposed installation will not affect the current farming operations. All of our equipment must be removed at the expense of the carrier (VoiceStream) if the telecommunications function ceases, as required by the Code. The proposed equipment shelter could revert to becoming another farm storage shed if the owner desires.

VoiceStream notes that the rental the landowner receives for the installation will materially assist in his ability to maintain and operate the farm in the face of increasing expenses and development pressure in the area. This will help maintain the existing character of the site and environmental setting as originally approved.

VoiceStream has submitted this proposal to the Montgomery County Telecommunications Transmission Facility Coordinating Group (the Tower Committee) for their review. We expect this proposal to be reviewed at the Committee's June 5, 2001 meeting.



SCALE 1:200
5' CONTOUR INTERVAL

481

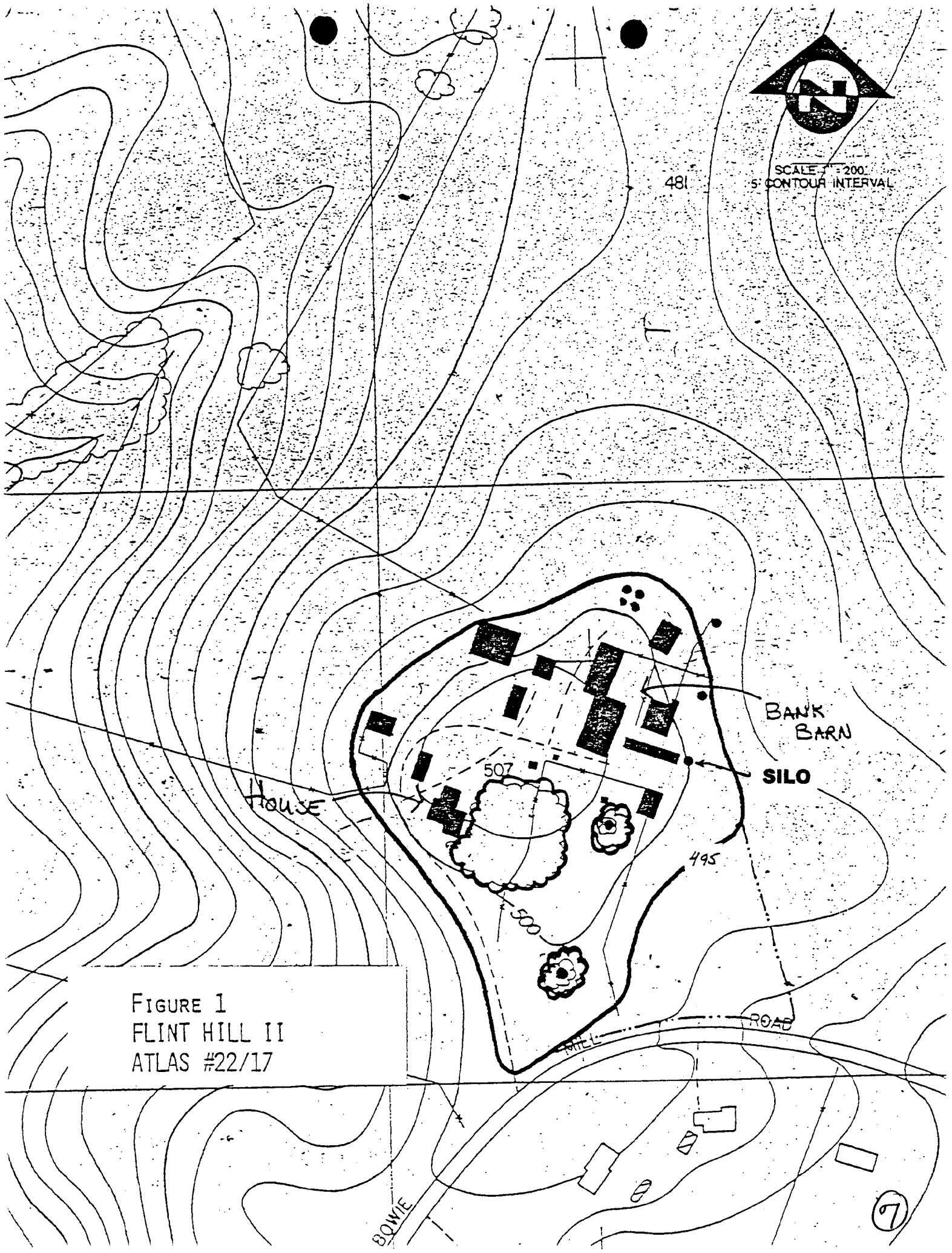
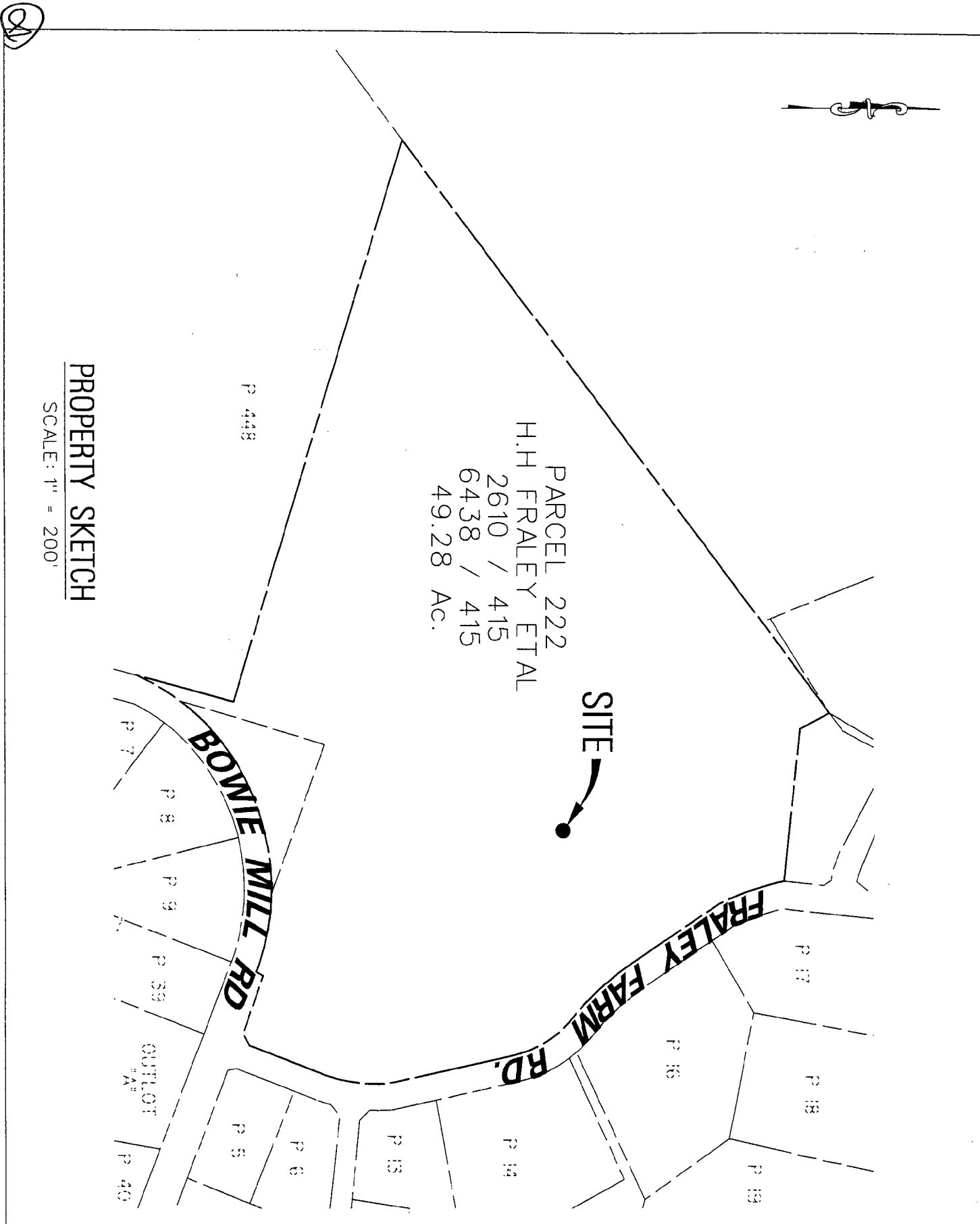


FIGURE 1
FLINT HILL II
ATLAS #22/17

BOWIE

7



PROPERTY SKETCH

SCALE: 1" = 200'

PARCEL 222
 H.H. FRALEY ETAL
 2610 / 415
 6438 / 415
 49.28 Ac.

SITE

BOWIE MILL RD

FRALEY FARM RD.

OUTLOT "A"



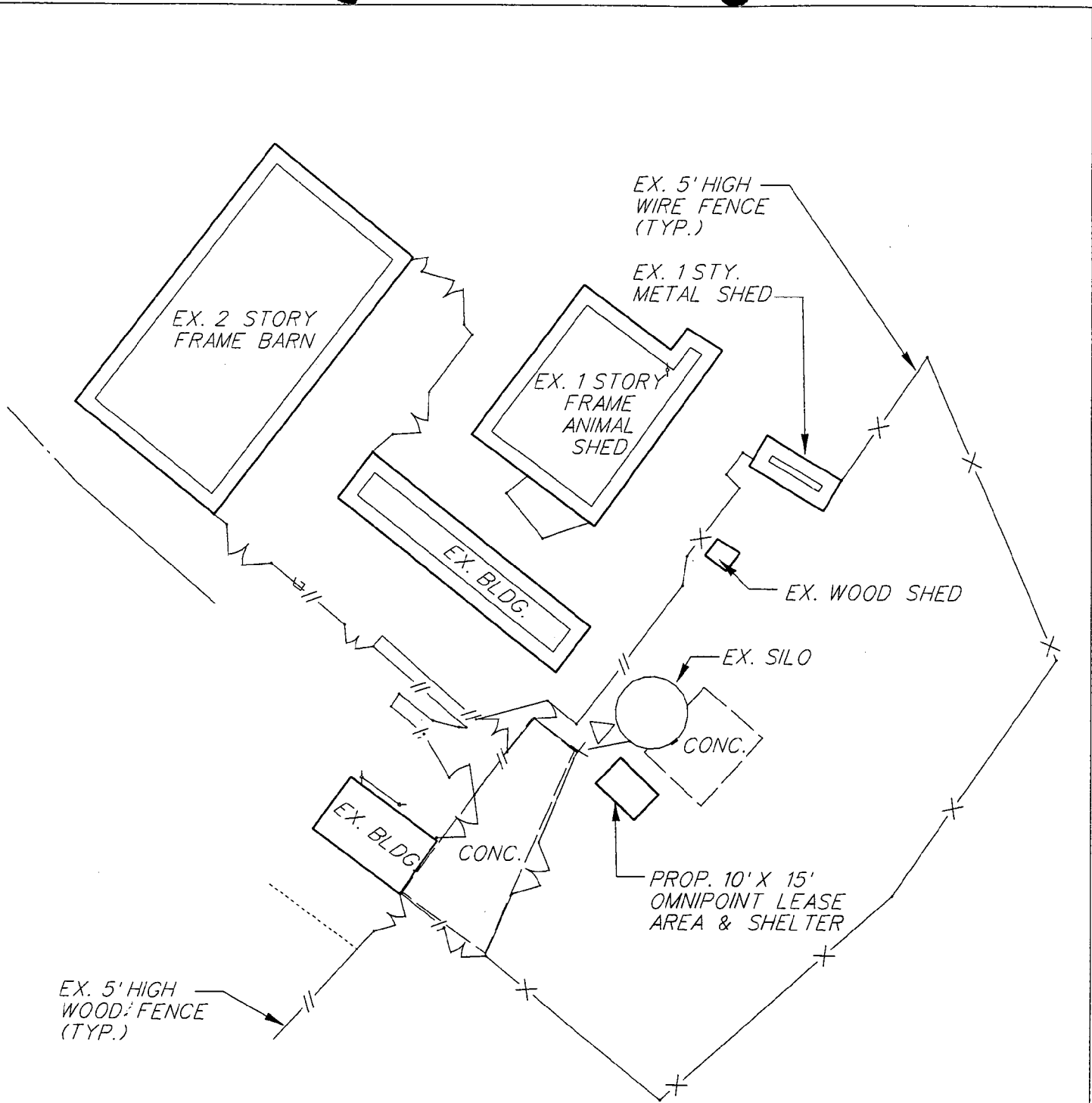
KCI Technologies, Inc.
 14409 Greenview Drive, Suite 102
 Laurel, Maryland 20708
 (301) 953-1821 (410) 792-8086
 fax: (410) 792-7419



12050 BALTIMORE AVENUE
 BELTSVILLE, MD 20705
 (240) 264-8600 FAX: (240) 264-8610

PROJECT: **SITE WAN 162 B
 REDLAND-
 FRALEY FARM
 UNMANNED WIRELESS
 COMMUNICATION SITE**
 17800 BOWIE MILL ROAD
 DERWOOD, MD 20855

EXHIBIT	
DRAWN BY: ARS CHECKED BY: TA	DATE: 05-14-01
PROJECT NO.: 1600013-74	SCALE: 1" = 200'



SITE PLAN
SCALE: 1" = 40'



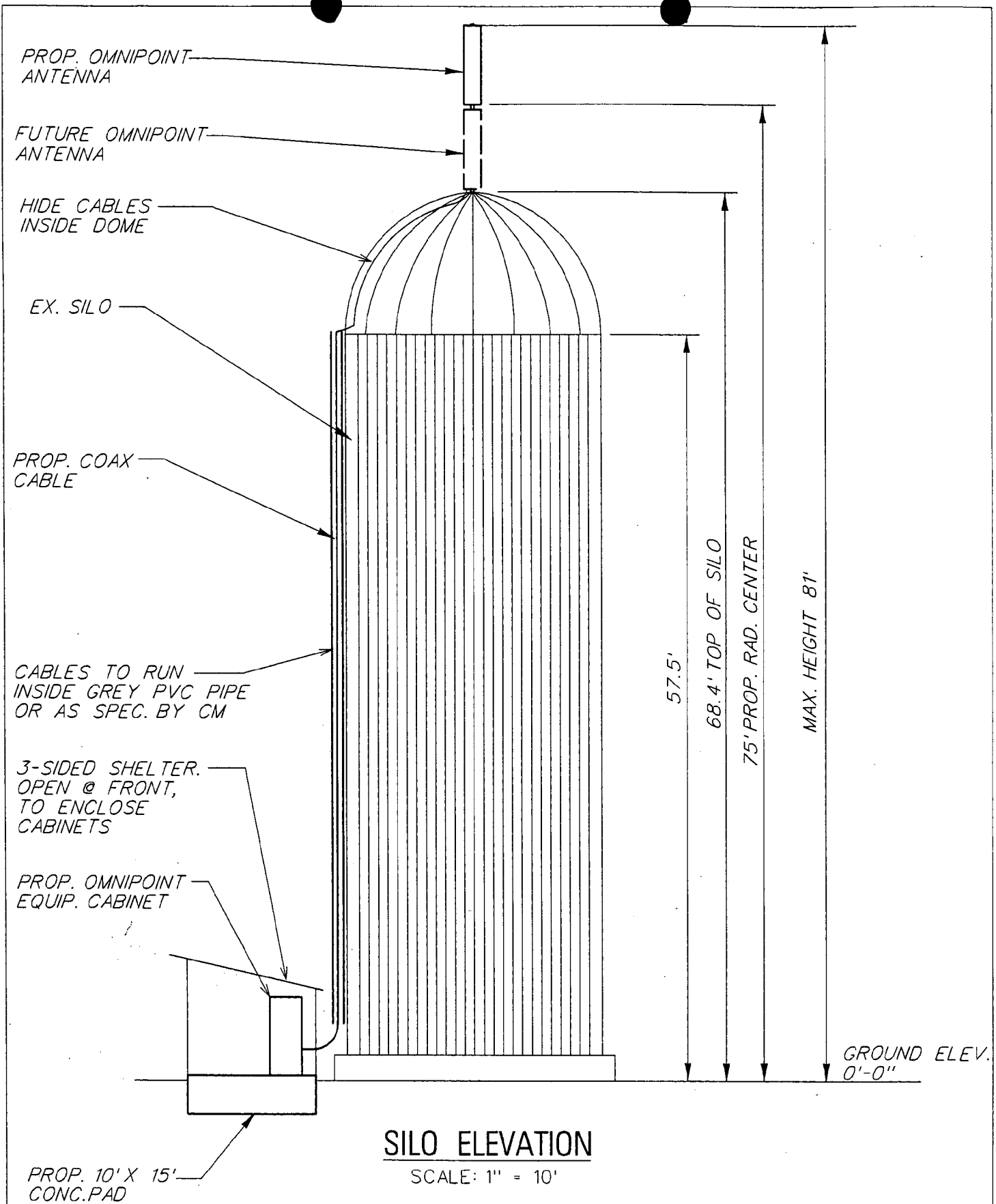
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PROJECT: **SITE WAN 162 B**
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UNMANNED WIRELESS
COMMUNICATION SITE
17800 BOWIE MILL ROAD
DERWOOD, MD 20855

EXHIBIT	
DRAWN BY: ARS	DATE: 05-14-01
CHECKED BY: TA	
PROJECT NO.: 1600013-74	SCALE: 1" = 40'



SILO ELEVATION
SCALE: 1" = 10'



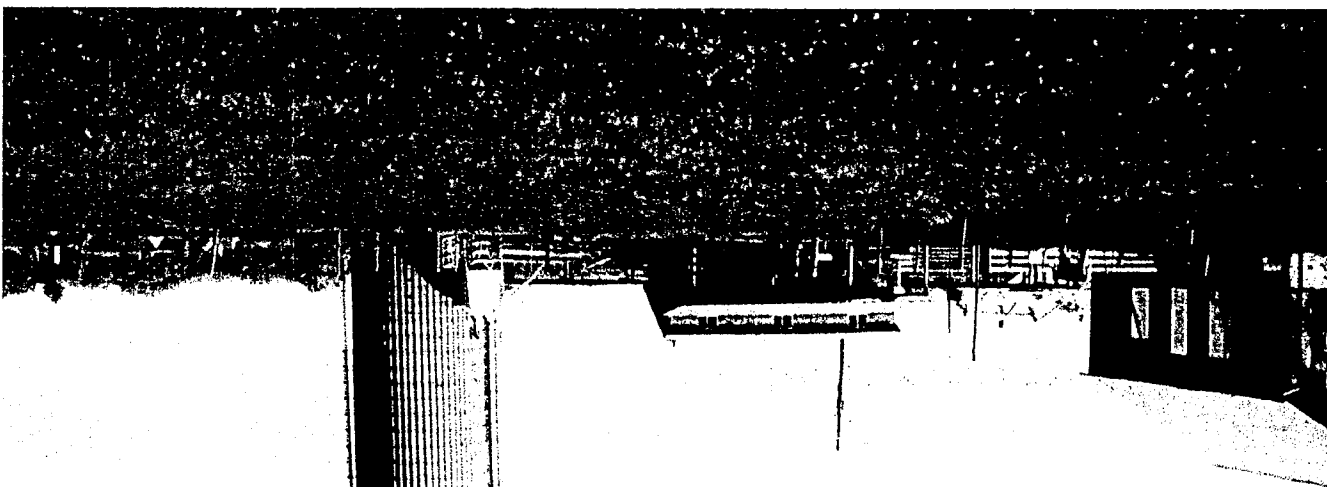
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OMNIPOINT
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UNMANNED WIRELESS
COMMUNICATION SITE**
17800 BOWIE MILL ROAD
DERWOOD, MD 20855

EXHIBIT	
DRAWN BY: ARS	DATE: 05-23-01
CHECKED BY: TA	
PROJECT NO.: 1600013-74	SCALE: 1" = 10'

VIEW FROM ROAD





EQUIPMENT CABINETS
TO BE HOUSED IN
LEAN-TO SHELTER

Mailing List of Property Owners as of 5/7/01

Property Owner

Owner's Agent

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Derwood, MD 20855

VoiceStream Wireless
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May 24, 2001

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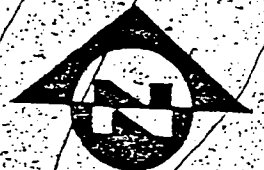
3-sided lean-to, with the open front facing toward the farmyard. The dimensions would be approximately 10 x 15 feet, 7 feet high at the rear and 9 feet high at the front. A concrete pad inside the lean-to structure will support the equipment cabinets. This design is compatible with an existing small barn just to the west, and the exterior surface would be finished in color and texture to be compatible with the existing structures. The proposed lean-to structure will be of the same character as other farm structures on the site. Because the shelter will be related to a telecommunications facility, it requires a building permit.

The coaxial cables that connect the antennae to the equipment cabinets will be run inside the silo dome to the top of the silo structure. The cables will then be run down the exterior of the silo in one or two gray PVC pipes to the ground equipment.

Our proposed installation will not affect the current farming operations. All of our equipment must be removed at the expense of the carrier (VoiceStream) if the telecommunications function ceases, as required by the Code. The proposed equipment shelter could revert to becoming another farm storage shed if the owner desires.

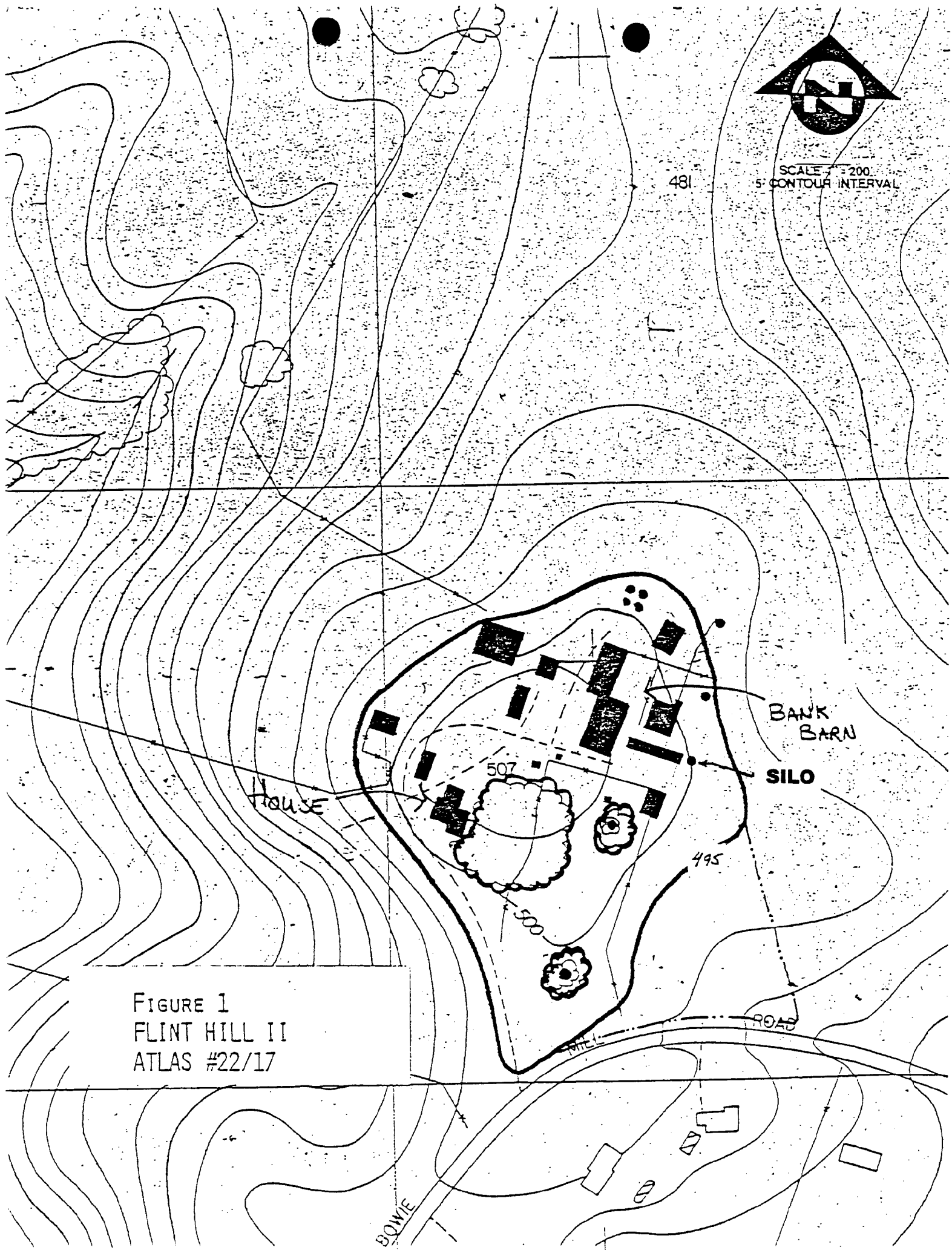
VoiceStream notes that the rental the landowner receives for the installation will materially assist in his ability to maintain and operate the farm in the face of increasing expenses and development pressure in the area. This will help maintain the existing character of the site and environmental setting as originally approved.

VoiceStream has submitted this proposal to the Montgomery County Telecommunications Transmission Facility Coordinating Group (the Tower Committee) for their review. We expect this proposal to be reviewed at the Committee's June 5, 2001 meeting.



SCALE 1" = 200'
5' CONTOUR INTERVAL

481



HOUSE

BANK
BARN

SILO

507

495

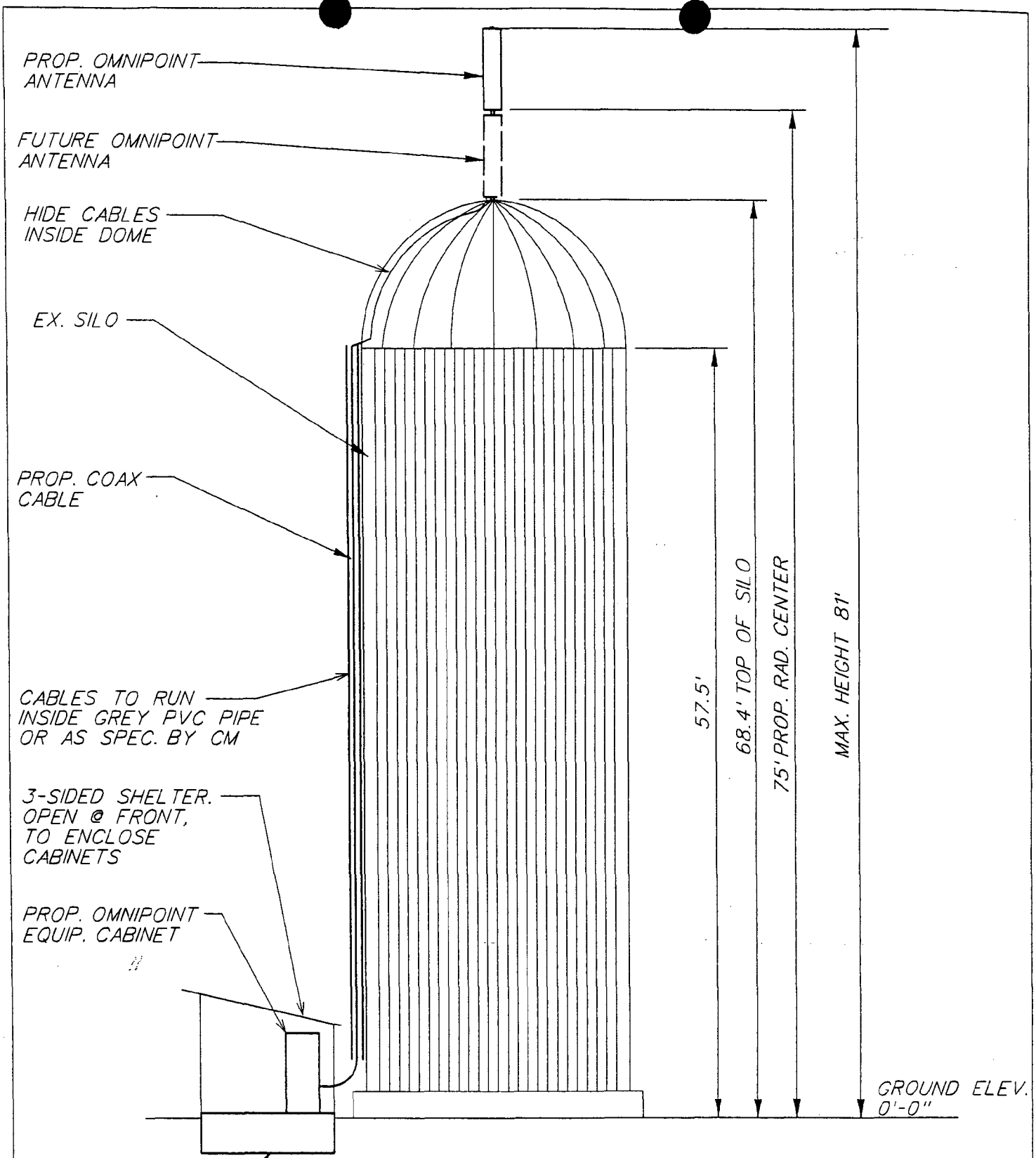
500

ROAD

MILE

BOWIE

FIGURE 1
FLINT HILL II
ATLAS #22/17



SILO ELEVATION

SCALE: 1" = 10'



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12050 BALTIMORE AVENUE
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PROJECT: **SITE WAN 162 B
 REDLAND-
 FRALEY FARM
 UNMANNED WIRELESS
 COMMUNICATION SITE**
 17800 BOWIE MILL ROAD
 DERWOOD, MD 20855

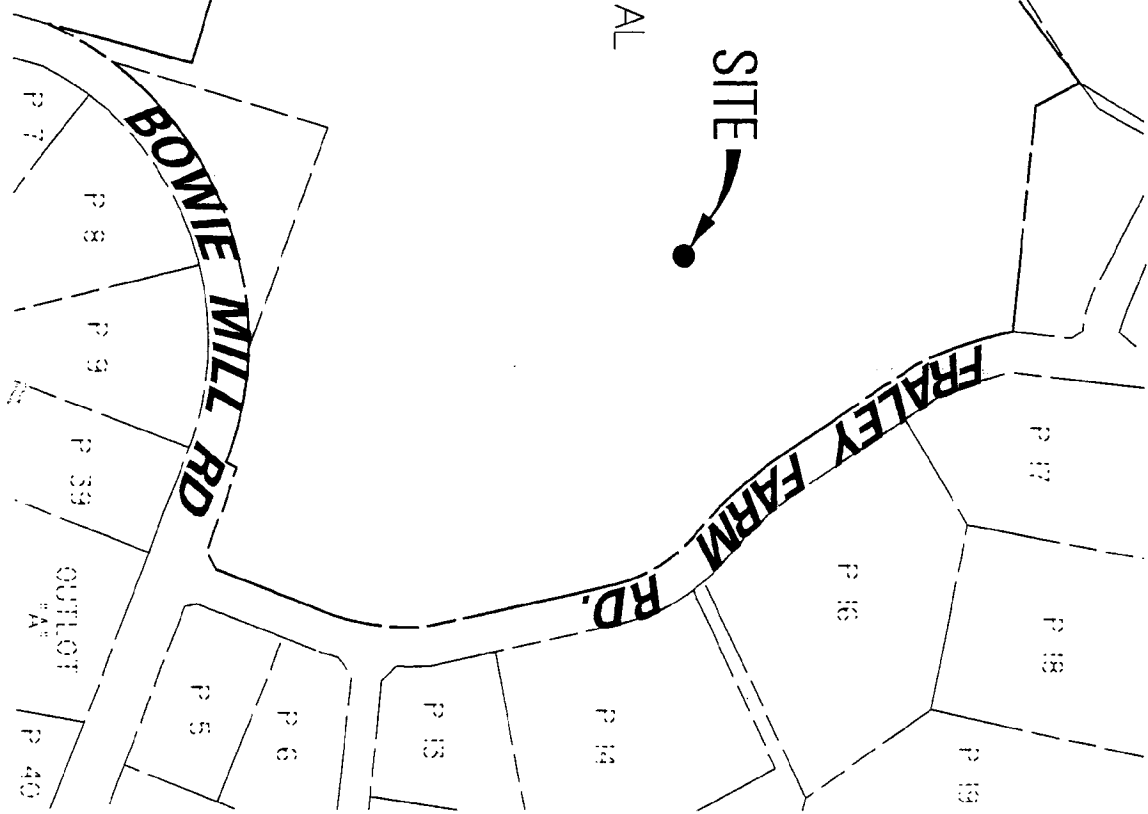
EXHIBIT	
DRAWN BY: ARS	DATE: 05-23-01
CHECKED BY: TA	
PROJECT NO.: 1600013-74	SCALE: 1" = 10'



PARCEL 222
 H.H. FRALEY ET AL
 2610 / 415
 6438 / 415
 49.28 Ac.

SITE

PROPERTY SKETCH
 SCALE: 1" = 200'

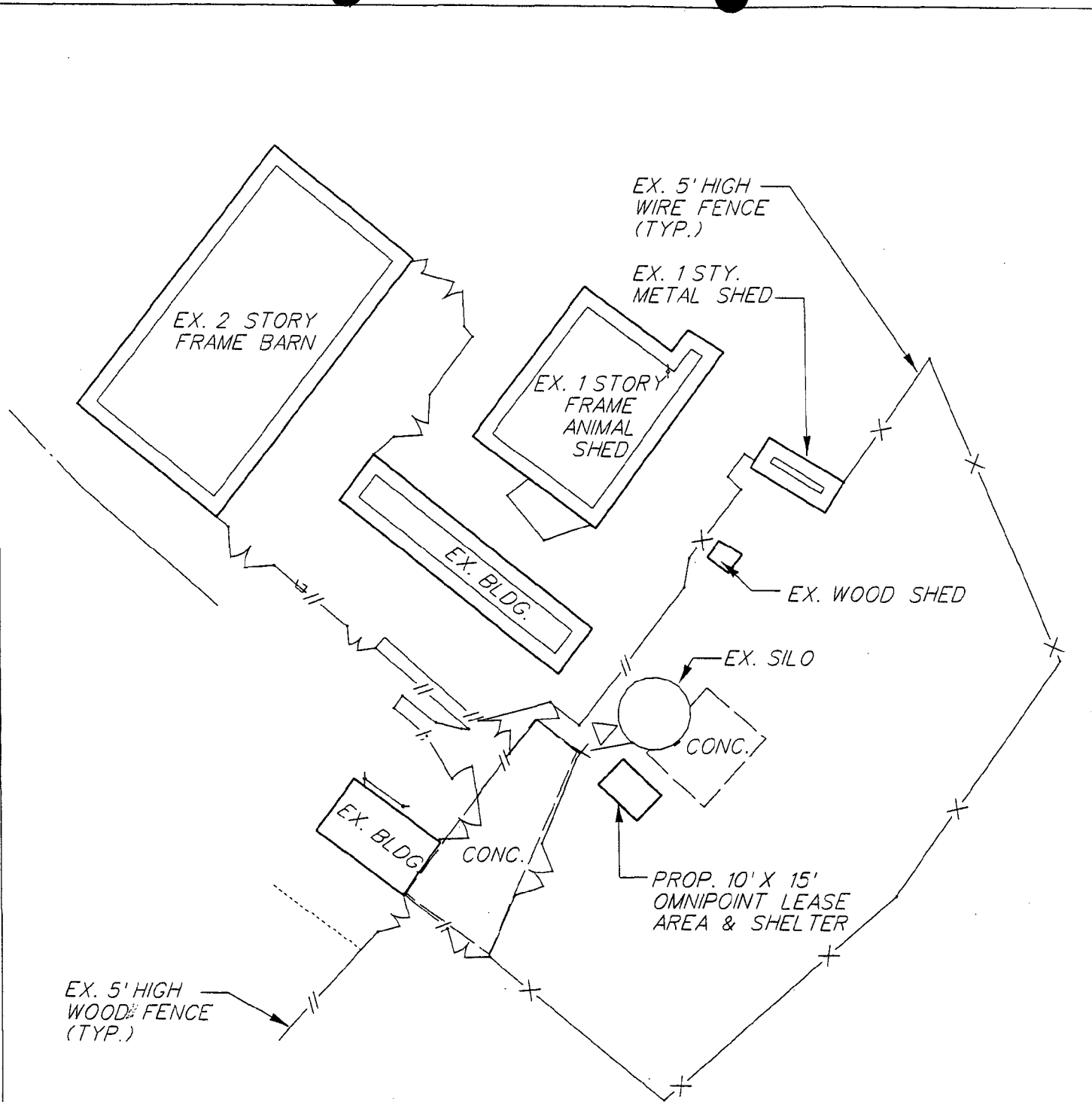


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EXHIBIT	
DRAWN BY: ARS CHECKED BY: TA	DATE: 05-14-01
PROJECT NO.: 1600013-74	SCALE: 1" = 200'



SITE PLAN
SCALE: 1" = 40'



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EXHIBIT	
DRAWN BY: ARS	DATE: 05-14-01
CHECKED BY: TA	
PROJECT NO.: 1600013-74	SCALE: 1" = 40'

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Tom King, Darnestown Civic Association	301-417-9049

From: Bob Hunnicutt

Date: June 6, 2001

Pages: 3, including this cover sheet

Subject: Action Notification for June 5, 2001 TTFCG meeting

Please contact 410-964-5700 as soon as possible if transmission is not complete.



DEPARTMENT OF INFORMATION SYSTEMS AND TELECOMMUNICATIONS

Douglas M. Duncan
County Executive

MEMORANDUM

Donald V. Evans
Director

June 6, 2001

TO: Distribution

FROM: Robert P. Hunnicutt, Tower Coordinator
Telecommunications Transmission Facility Coordinating Group (TTFCG)

SUBJECT: **Notification of Action**

At its meeting of June 5, 2001 the Montgomery County TTFCG recommended the following applications:

- Nextel Communications application to attach antennas in the bell tower at the 43' level of a 53' Our Lady of Mercy church building to be constructed at 9200 Kentsdale Drive in Potomac (Application #200012-03).
- Sprint PCS application to attach antennas at the 140' level of the 204' WSSC Colesville water tank located at 2201 Industrial Parkway in Silver Spring (Application #200104-19).
- Nextel Communications application to sled mount antennas on the roof at the 100' level of an existing 96' Columbia Towers building located at 12001 Old Columbia Pike in Silver Spring (Application #200104-22).
- VoiceStream Wireless application to attach antennas at the 181' level of an existing 204' monopole at the Damascus VFD #13 located at 10211 Lewis Drive in Damascus (Application #200104-23).
- Nextel Communications application to attach antennas at the 110' level of an existing 150' monopole at Sherwood High School located at 300 Olney-Sandy Spring Road in Sandy Spring (Application #200105-07).
- VoiceStream Wireless application to replace 6 existing 54" antennas with 6 new 72" antennas on the penthouse walls at the 144' level of an existing 129' Park Montgomery Apartment building located at 8860 Piney Branch Road in Silver Spring (Application #200105-08).
- Sprint PCS application to construct a new 125' monopole/lightpole and place antennas at the 120' level at North Bethesda Middle School located at 8935 Bradmoor Drive in Bethesda (Application #200105-14)
- Montgomery County application to attach antennas to the roof wall at the 118' level of the 111' Hyatt Regency Bethesda building located at 1 Bethesda Metro Center in Bethesda (Application #200105-15).

Office of the Director

Notification of Action
June 5, 2001 TTFCG Meeting
Page - 2 -

Recommendation conditioned on obtaining any modifications to the Special Exception as may be required.

- Sprint PCS application to attach antennas at the 155' level of a 188' monopole at the McDonnell property located at 20315 Georgia Avenue in Brookeville (Application #200104-20).

Recommendation conditioned on obtaining any modifications to the Special Exception as may be required to increase the ground space for the equipment shed and for tree branches.

- Nextel Communications application to attach antennas at the 77' level of an existing 120' tree monopole at the Baptist Home for Children located at 6301 Greentree Road in Bethesda (Application #200104-21).

Recommendation conditioned on approval by the Historical Preservation Society and the Department of Permitting Services, and the Zoning Department.

- VoiceStream Wireless application to attach antennas at the 75' & 78' level on the top of an existing farm silo at Fraley Farm located at 17800 Bowie Mill Road in Derwood (Application #200105-10).

Recommendation conditioned on Nextel providing the Department of Permitting Services with a structural analysis that verifies attachment may be safely accomplished and providing a copy to the TTFCG prior to construction, and compliance with Section 59.A.14 of the zoning regulations regarding the location of the equipment shed.

- Nextel Communications application to attach antennas to the top of the chimney at the 52' level of the Chevy Chase Methodist Church located at 7001 Connecticut Avenue in Chevy Chase (Application #200105-11).

Recommendation conditioned on Sprint providing the Department of Permitting Services with a structural analysis that verifies attachment may be safely accomplished and providing a copy to the TTFCG prior to construction.

- Sprint PCS application to attach antennas at the 180' level of an existing 230' lattice tower on the Benmar Property located at 18500 Elmer School Road in Poolesville (Application #200105-12).