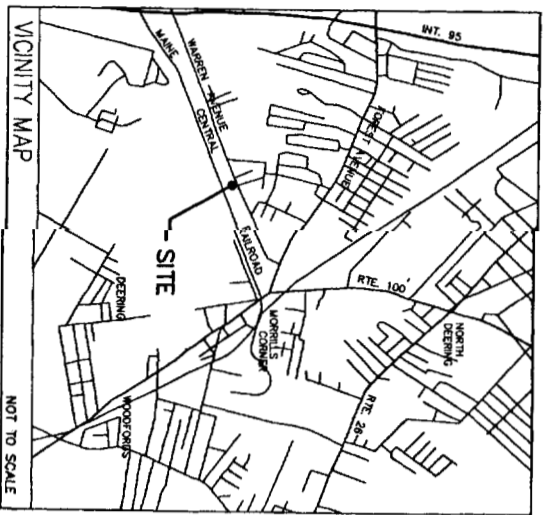


SPRINT SPECTRUM L.P.

SITE NAME:
WEST PORTLAND
 SITE NUMBER:
NM03XC066D



SITE NAME:	WEST PORTLAND
SITE NUMBER:	NM03XC066D
SITE ADDRESS:	188 WARREN AVENUE PORTLAND, MAINE 04103 CUMBERLAND COUNTY
OWNER:	LEONARD MARTIN 188 WARREN AVENUE PORTLAND, MAINE 04103 CUMBERLAND COUNTY
APPLICANT:	SPRINT SPECTRUM LP 135 COMMERCE WAY, SUITE 200 PORTSMOUTH, NH 03801
JURISDICTION:	CITY OF PORTLAND
CURRENT ZONING:	I-2, INDUSTRIAL ZONE
TAX IDENTIFICATION:	MAP 295 PARCEL BLOCK 0, LOT 6
SITE COORDINATES:	LATITUDE: 43° 41' 15.16" (NAD 83) LONGITUDE: 70° 18' 14.96" (NAD 83) GROUND ELEVATION: 97.1' (NGVD 29)

DWG	TITLE SHEET	DESCRIPTION	REV. NO.	REV. DATE
M0006002	PLAT PLAN		2	11/23/98
M0006001	EXISTING CONDITIONS		1	10/23/98
M0006003	PARTIAL SITE PLAN & SITE DETAIL PLAN		0	10/03/98
M0006004	ELEVATION & SITE DETAILS		1	10/23/98
M0006005	FRAMING PLAN & DETAILS		2	11/23/98
M0006006	ANTENNA MOUNTING PLAN & DETAILS		1	10/23/98
M0006007	GROUNDING PLAN & DETAILS		1	10/23/98
M0006008	GROUNDING DETAILS		1	10/23/98
M0006009	ELECTRICAL PLAN & DETAILS		1	10/23/98

SHEET INDEX

PROJECT INDEX

TECTONIC ENGINEERING
 CONSULTANTS P.C.
 7140 DEBRO STREET
 PORTLAND, MAINE 04103
 (603) 763-7144

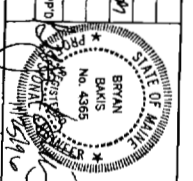
W.O. NO.
 1780 DKB0

WEST PORTLAND
 188 WARREN AVENUE
 PORTLAND, MAINE 04103
 CUMBERLAND COUNTY

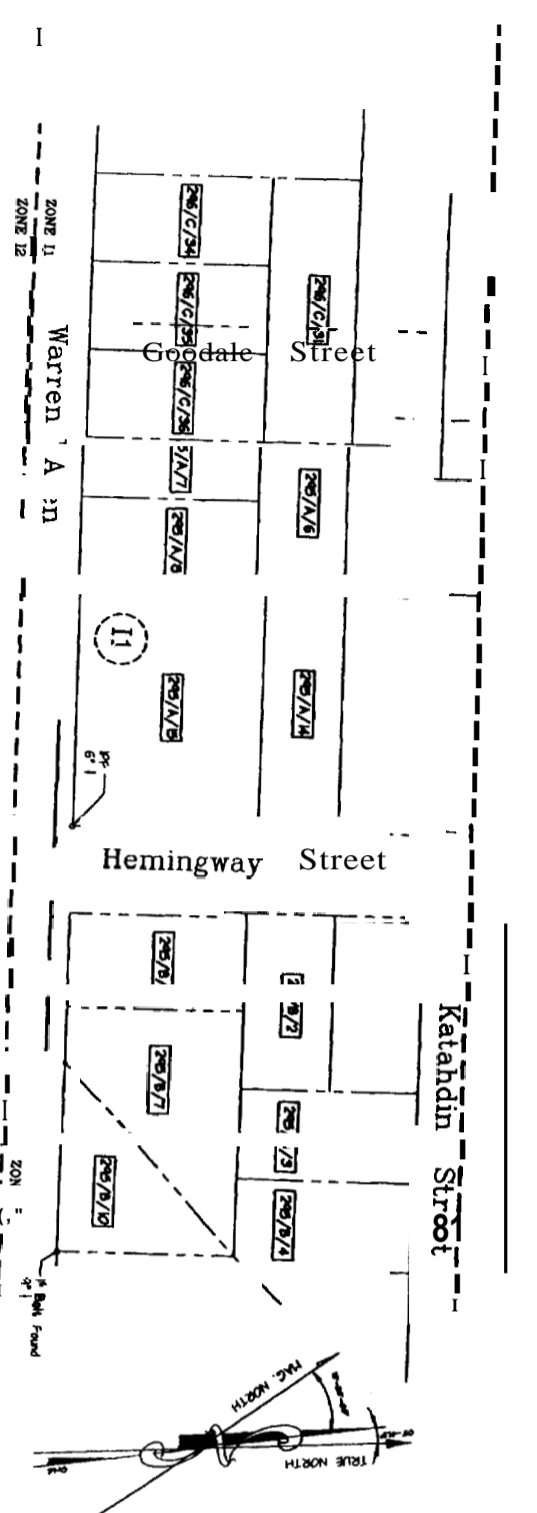


Sprint Spectrum LP
 135 COMMERCE WAY, SUITE 200, PORTSMOUTH, NH 03801
 NEW HAMPSHIRE/MAINE MTA
 SITE NO. NM03XC066D

NO.	DATE	REVISIONS	DESIGNED BY: JF	DRAWN BY: WT
1	11/23/98	ISSUED PER COMMENT		
2	10/23/98	ISSUED FOR CONSTRUCTION		
3	10/9/98	ISSUED FOR REVIEW & COMMENT-CONST		



LUCCENT TECHNOLOGIES/BECHTEL ALLIANCE
 SISP PROJECT
 TITLE SHEET
 JOB NO. 23224
 DRAWING NUMBER MC0066DD00
 REV 2



MAP/BLOCK/LOT	RECORD OWNER	ADDRESS
296/A/12	PETER F. HOLMES	12 WILWOOD LANE SCARBOROUGH, ME 04074
296/C/31	DAVID W. WILSON	RRA BOX 102 WISCONSSET, ME 04578
296/C/14		
296/C/15		
296/C/16		
295/A/5	GERALDINE E. & WILLIAM L. DENNISON	1 GOODALE STREET PORTLAND, ME 04103
295/A/7	JAMES J. PHELAN	197 WARREN AVE PORTLAND, ME 04103
295/A/8	IM PHUN AND DONG YOHAN	193 WARREN AVE PORTLAND, ME 04103
295/A/14	JUDITH A. GRABO	107 PLEASANT AVE PORTLAND, ME 04103
295/B/2	WALTER J. POCHBIT	7 HALE STREET PORTLAND, ME 04103
295/B/3		
295/B/4		
295/B/5		
295/B/10		
295/C/8	KTK, CORP.	178 WARREN AVENUE PORTLAND, ME 04103
295/G/3	PORTLAND TERMINAL CO.	402 AMHERST ST. NASHUA, NH 03063
295/H/1	PORTLAND TERMINAL CO.	402 AMHERST ST. NASHUA, NH 03063
281/A/2	PORTLAND TERMINAL CO.	402 AMHERST ST. SUITE 300 NASHUA, NH 03063
281/A/3	TILCON MINERALS INC.	P.O. BOX 1560 PORTLAND, ME 04104

LEGAL DESCRIPTION OF LEASE AREA

LEGAL DESCRIPTION - LEASE PARCEL

A CERTAIN PARCEL OF LAND SITUATED SOUTHERLY OF WARREN AVENUE AND ON THE PREMISES OF LEONARD J. MORIN AND JAMES R. MORIN BOUND AND DESCRIBED AS FOLLOWS, VZ:

BEGINNING AT A NUMBER 5 RE-BAR SET ON THE NORTHEASTERN CORNER OF THE SUITE 300 AND LOCATED STR-36-111-W, 142.01 FEET FROM A 5/8" IRON RE-BAR (CAPPED 1282) FOUND AT THE NORTHWEST CORNER OF LAND FORMERLY OWNED BY KTK, CORP AS DESCRIBED IN BOOK 9578 PAGE 301;

THENCE S08°-27'-49" W 52.50 FEET TO A NUMBER 5 RE-BAR SET;

THENCE N83°-53'-20" W 40.03 FEET TO A NUMBER 5 RE-BAR SET;

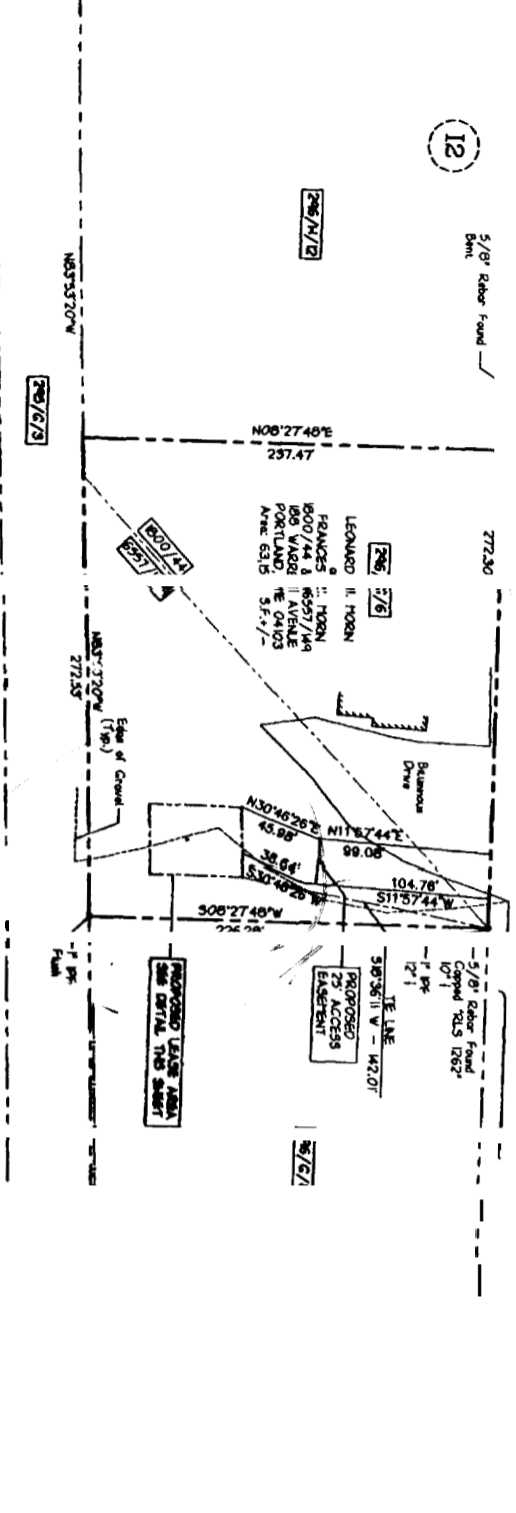
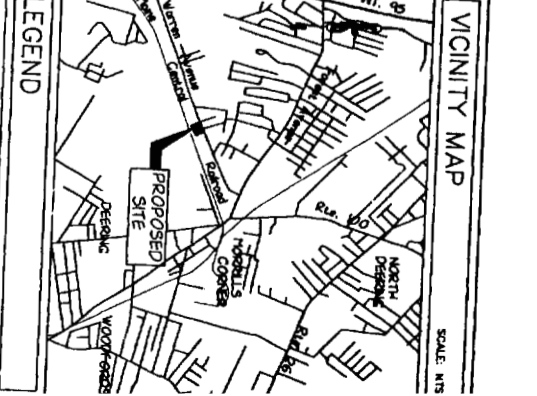
THENCE N08°-27'-48" E 52.50 FEET TO A NUMBER 5 RE-BAR SET;

THENCE S83°-53'-20" E 40.03 FEET TO THE POINT OF BEGINNING.

SAND PARCEL CONTAINS 2,100 SQUARE FEET.

BEARINGS ARE BASED ON MAINE GRID COORDINATE SYSTEM.

NUMBER 5 RE-BAR SET ARE CAPPED "TEST 1245".



MAP/BLOCK/LOT	RECORD OWNER	ADDRESS
295/C/8	KTK, CORP.	178 WARREN AVENUE PORTLAND, ME 04103
295/G/3	PORTLAND TERMINAL CO.	402 AMHERST ST. NASHUA, NH 03063
295/H/1	PORTLAND TERMINAL CO.	402 AMHERST ST. NASHUA, NH 03063
281/A/2	PORTLAND TERMINAL CO.	402 AMHERST ST. SUITE 300 NASHUA, NH 03063
281/A/3	TILCON MINERALS INC.	P.O. BOX 1560 PORTLAND, ME 04104

ZONING INFORMATION

ZONING DISTRICT: I-2 INDUSTRIAL ZONE

MINIMUM LOT AREA: N/A

MINIMUM ROAD FRONTAGE: 60'

FRONT YARD SETBACK: 25'

REAR YARD SETBACK: 25'

SIDE YARD SETBACK: 25'

MAXIMUM BUILDING HEIGHT: 45'

MAXIMUM LOT COVERAGE: N/A

FLOOR AREA RATIO: N/A

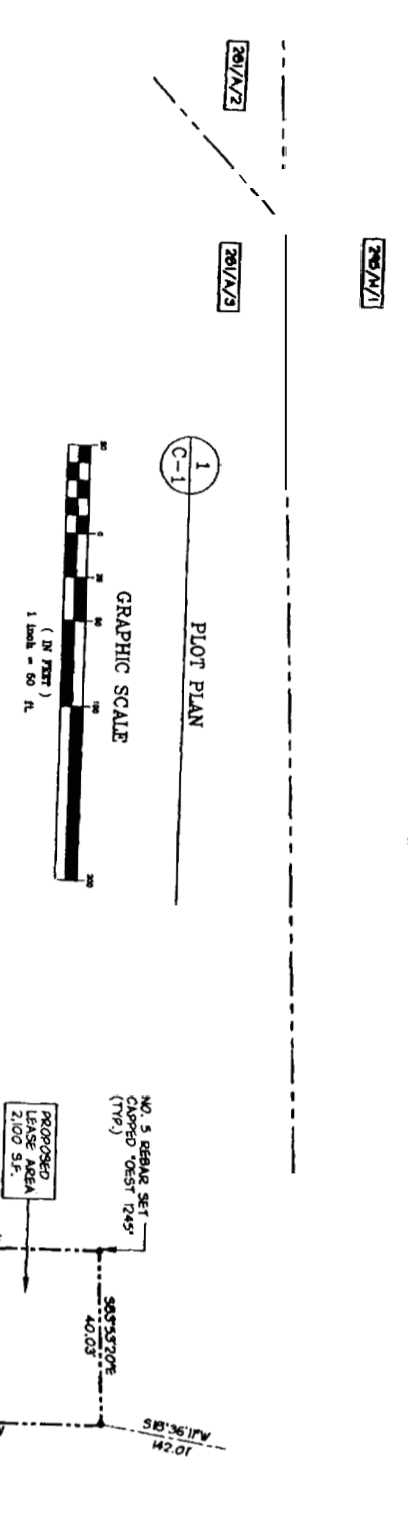
FAA CERTIFICATION

I HEREBY CERTIFY THAT THE LATITUDE, LONGITUDE AND ELEVATIONS PRESENTED HEREON MEET THE REQUIREMENTS OF THE FAA WITH THE FOLLOWING ACCURACIES:

±/- THREE (3) FEET VERTICALLY

±/- FIFTEEN (15) FEET HORIZONTALLY

DATE: 10/22/16
JEROME B. VAITS PLS 1245



PLAN REFERENCES

1. PLAN ENTITLED "STANDARD BOUNDARY SURVEY, PLAN OF PROPERTY FOR KEELY BANK CENTER, 178 WARREN AVE., PORTLAND, ME." DATED 8/4/87 AND RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS PLAN BOOK 181 PAGE 2.
2. PLAN ENTITLED "A. PLAN OF PROPERTY FOR UNION CARBIDE CORPORATION, WARREN AVENUE, PORTLAND, CUMBERLAND COUNTY, MAINE," DATED 6/3/79 BY LAND USE CONSULTANTS, INC.

GENERAL NOTES

1. SITE NAME: WEST PORTLAND
2. SITE NUMBER: NN03X0960
3. SITE ADDRESS: 188 WARREN AVENUE PORTLAND, MAINE 04103 CUMBERLAND COUNTY
4. OWNER: LEONARD J. MORIN AND JAMES R. MORIN 188 WARREN AVENUE PORTLAND, ME 04103 CUMBERLAND COUNTY
5. APPLICANT: SPRINT SPECTRUM L.P. 135 COMMERCE WAY PORTSMOUTH, NH 03801
6. JURISDICTION: PORTLAND, ME
7. TAX IDENTIFICATION: MAP 295 PARCEL BLOCK G LOT 6
8. VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (MEAN SEA LEVEL)
9. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
10. CENTER OF LEASE AREA: (NAD 83) LATITUDE: 43° 41' 11.18" LONGITUDE: 70° 18' 14.98" ELEVATION: 97.1 (NGVD 29)
11. TRUE NORTH IS BASED ON REDUCTION FROM MAINE STATE GRID COORDINATE SYSTEM
12. THE ACCESS ROAD AND TOWER SITE DO NOT LIE WITHIN THE 100' FLOOD HAZARD ZONE AS SHOWN ON CUMBERLAND COUNTY MAP, CITY OF PORTLAND, 230051-0006-B EFFECTIVE DATE JULY 17, 1986 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
13. ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON IS DETERMINED FROM SURFACE EVIDENCE AND BE LOCATED IN THE FIELD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK CALL (603) 322-4844 A MIN OF 72 HOURS PRIOR TO PLANNED ACTIVITY.

LEGEND

- IRON MARKER FOUND (AS NOTED)
- CHAIN LINK FENCE
- UTILITY POLE
- OVERHEAD WIRES
- TAX SHEET/BLOCK/LOT NO. ABOVE/BELOW GRADE
- PROPERTY LINE
- MARKER SET (AS NOTED)
- TEMPORARY BENCH MARK (AS NOTED)
- ZONING DESIGNATION

TECTONIC CONSULTANTS P.C.
714 S. GORHAM ROAD
PORTLAND, ME 04103
TEL: 603-761-1100
FAX: 603-761-1101
WWW.TECTONICCONSULTANTS.COM

WEST PORTLAND
188 WESTERN AVENUE
PORTLAND, MAINE 04103
CUMBERLAND COUNTY

OGST Associates, Inc.
243 GORHAM ROAD South Portland, ME 04106
TEL: 603-883-1100
FAX: 603-883-1101
WWW.OGSTASSOCIATES.COM

SPRINT Spectrum
NEW HAMPSHIRE
SITE NO. N

STANDARD BOUNDARY SURVEY

DESIGNED BY: JBV
DRAWN BY: DDB

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	10/22/16	ISSUED FOR COMMENT	JBV	DDB	
2	10/22/16	REVISION ACCESS AND EXISTENT AREA	JBV	DDB	

LEGAL DESCRIPTION OF LEASE AREA

LEGAL DESCRIPTION - LEASE PARCEL

A CERTAIN PARCEL OF LAND SITUATED SOUTHERLY OF WARREN AVENUE AND ON THE PREMISES OF LEONARD J. MORIN AND JAMES R. MORIN BOUND AND DESCRIBED AS FOLLOWS, VZ:

BEGINNING AT A NUMBER 5 RE-BAR SET ON THE NORTHEASTERN CORNER OF THE SUITE 300 AND LOCATED STR-36-111-W, 142.01 FEET FROM A 5/8" IRON RE-BAR (CAPPED 1282) FOUND AT THE NORTHWEST CORNER OF LAND FORMERLY OWNED BY KTK, CORP AS DESCRIBED IN BOOK 9578 PAGE 301;

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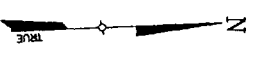
SAND PARCEL CONTAINS 2,100 SQUARE FEET.

BEARINGS ARE BASED ON MAINE GRID COORDINATE SYSTEM.

NUMBER 5 RE-BAR SET ARE CAPPED "TEST 1245".

VICINITY MAP

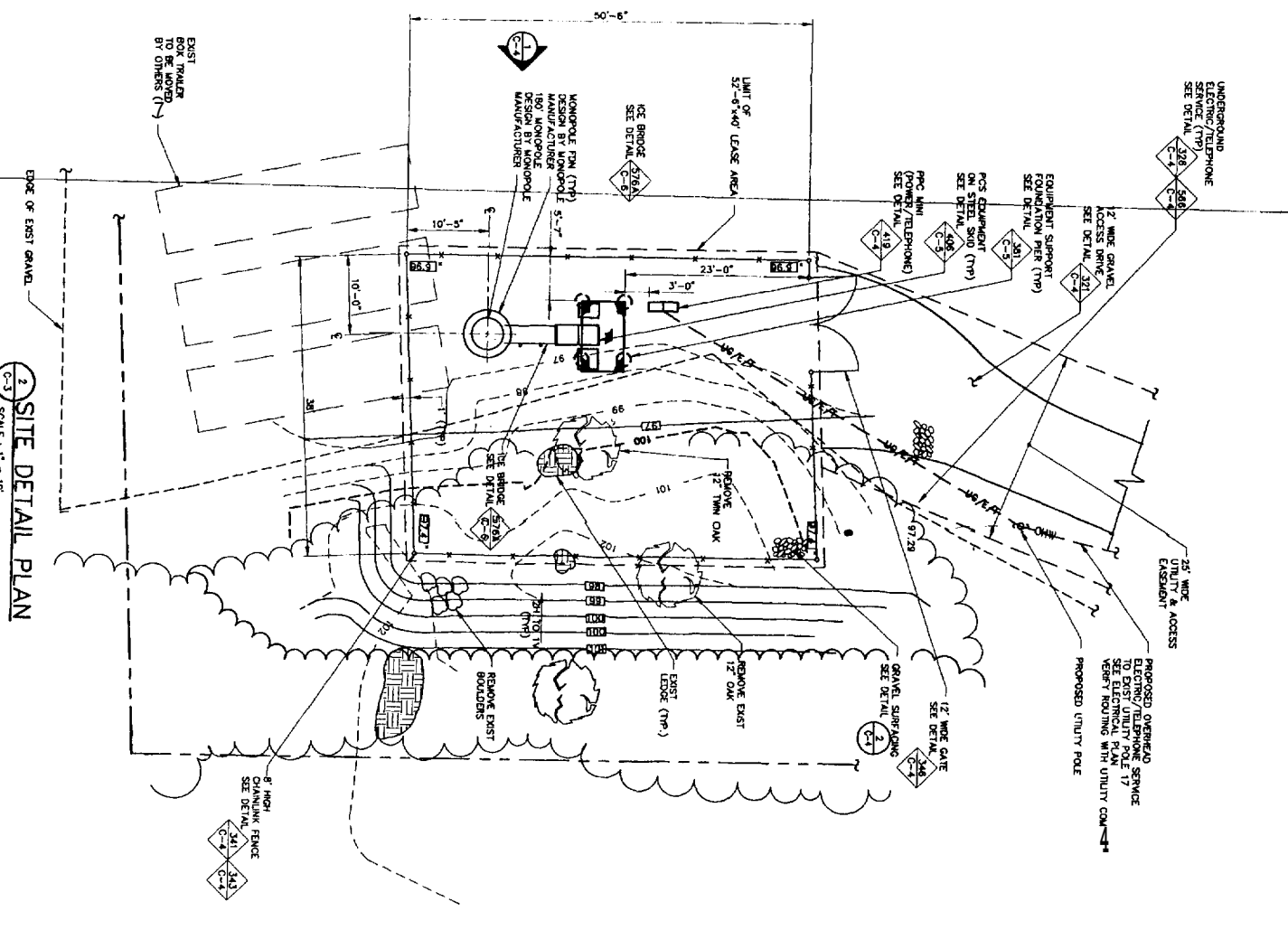
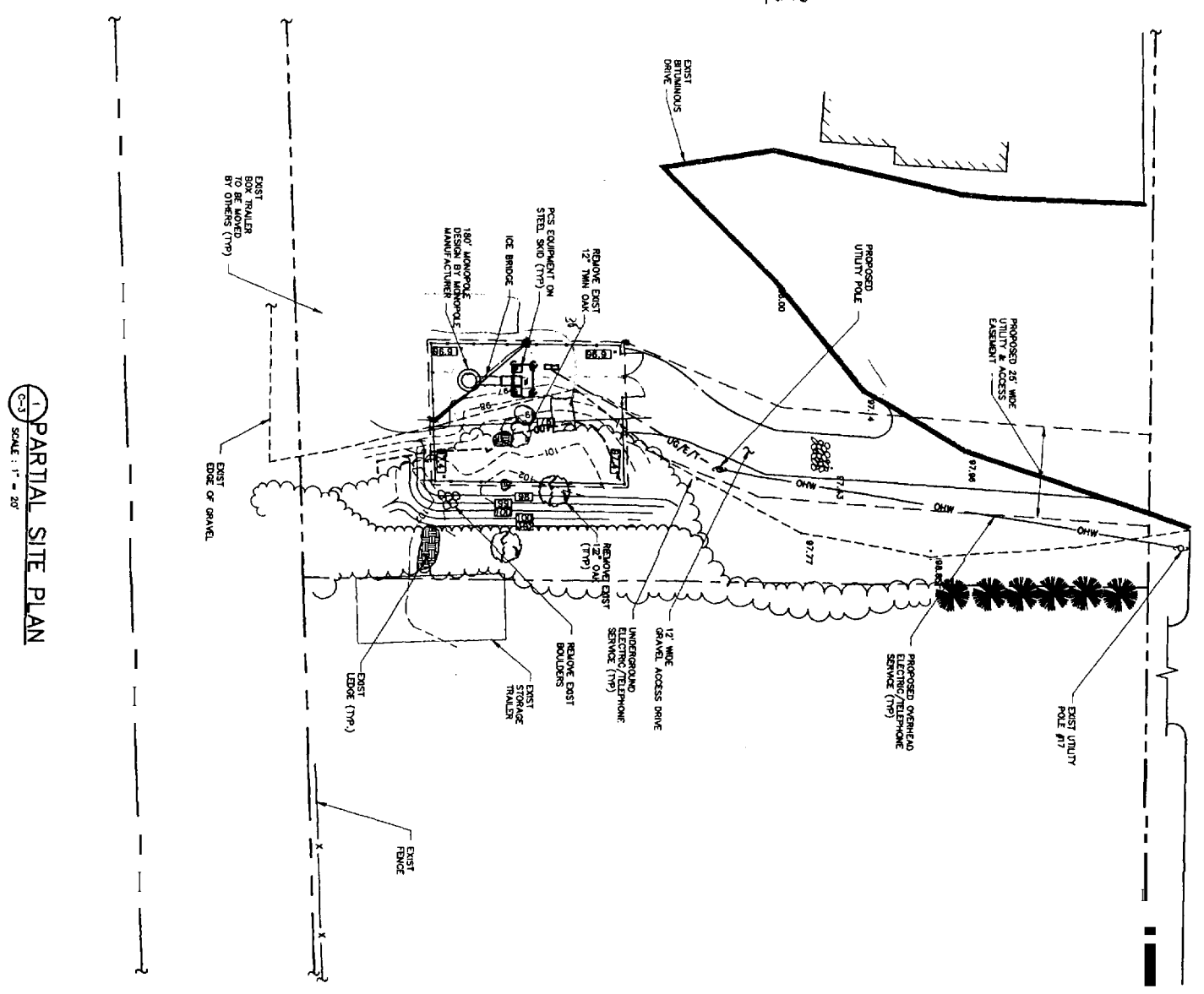
SCALE: NTS



WARREN AVENUE

ZONE 11
ZONE 12

206/6/6
LEONARD J. WORN
AND
FRANCIS R. WORN
1800/44 & 6307/46
208 WARREN AVENUE
PORTLAND, MAINE
AREA: 63190 S.F. / -



LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EASEMENT LINE
- CONTOUR
- INDEX CONTOUR
- PROPOSED FINISH GRADE
- PROPOSED SPOT GRADE
- PROPOSED CHAINLINK FENCE
- EXIST CHAINLINK FENCE
- EXIST UTILITY POLE
- UTILITY POLE
- OVERHEAD ELECTRIC/TELEPHONE SERVICE
- UNDERGROUND ELECTRIC/TELEPHONE SERVICE
- EXIST TREE LINE
- LIMIT OF CLEARING
- EDGE OF PAVEMENT

CIVIL NOTES

1. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED OR RELOCATED AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK. SHALL BE FIELD RELOCATED FOR THE PROPER EXECUTION OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES.
3. ALL SITE WORK SHALL BE AS SHOWN ON THE DRAWING AND SPECIFICATIONS IN THE SPECIFICATION PROJECT SUMMARY.
4. IF NECESSARY, RUBBERS, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LOCALLY AWAY FROM THE PCS EQUIPMENT AND TOWER AREAS.
5. NO FILL OR EMBARMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBARMENT.
6. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
7. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHICH INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE FIELD RELOCATED OR OTHERWISE DISCONTINUED AT POINTS AS CALLED OUT OR OTHERWISE INDICATED ON THE DRAWING. SHALL BE FIELD RELOCATED OR OTHERWISE DISCONTINUED AT POINTS AS CALLED OUT OR OTHERWISE INDICATED ON THE DRAWING. SHALL BE FIELD RELOCATED OR OTHERWISE DISCONTINUED AT POINTS AS CALLED OUT OR OTHERWISE INDICATED ON THE DRAWING.
8. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT SHOWN ON THE DRAWING OR OTHERWISE CALLED OUT SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER WITHIN THE SPECIFICATION LANDSCAPE WORK.
9. CONTRACTOR SHALL MAINTAIN DISTANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION TO PREVENT EROSION AND SEDIMENT CONTROL.
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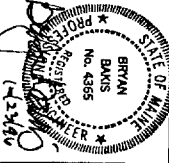
DETAIL 200
SCALE: 1" = 20'

TECTONIC ENGINEERING
CONSULTANTS P.C.
188 WARREN AVENUE
PORTLAND, MAINE 04103
PHONE: 853-7144
FAX: 853-7145
W.O. NO. 17600660

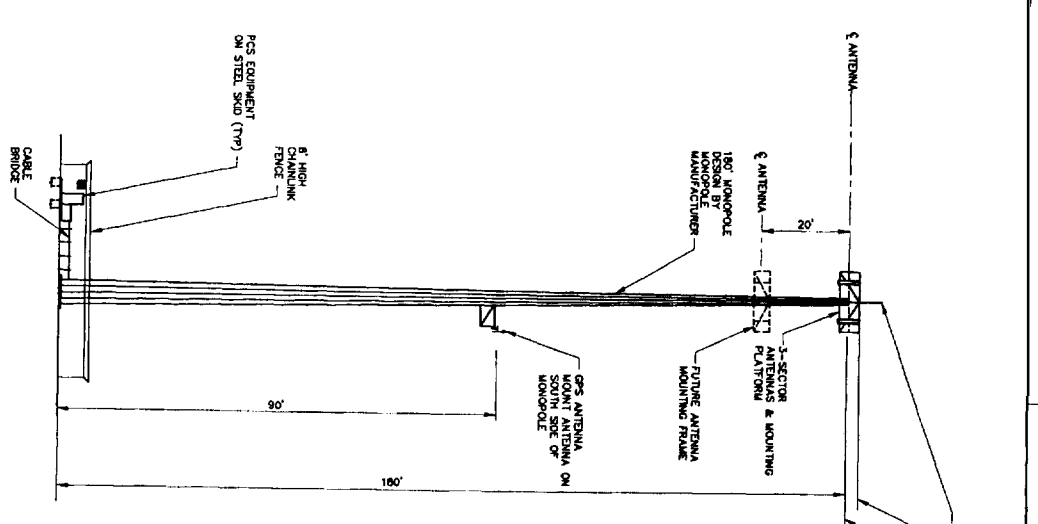
WEST PORTLAND
188 WARREN AVENUE
PORTLAND, MAINE 04103
CUMBERLAND COUNTY

Sprint Spectrum LP
135 COMMERCE WAY, SUITE 200, PORTSMOUTH, NH 03801
NEW HAMPSHIRE/MAINE MTA
SITE NO. NM03XCD66D

NO.	DATE	ISSUED FOR CONSTRUCTION	DESIGNED BY: J.F.	DRAWN BY: MT
1	10/23/06	ISSUED FOR CONSTRUCTION	J.F.	MT
2	10/9/06	ISSUED FOR REVIEW & COMMENT-COAST	J.F.	MT

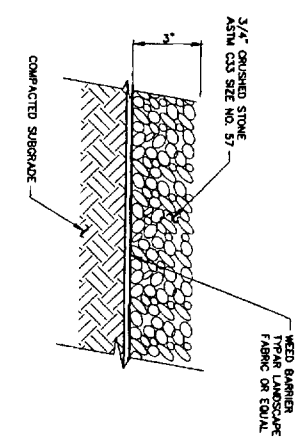


LUCENT TECHNOLOGIES/BECHTEL ALLIANCE
SSLP PROJECT
PARTIAL SITE PLAN
& SITE DETAIL PLAN
JOB NO. 23224
DRAWING NUMBER MCO066003
REV 1



1 SITE ELEVATION
SCALE: 1" = 20'

4 GRAVEL SURFACING DETAIL
SCALE: 3" = 1'-0"

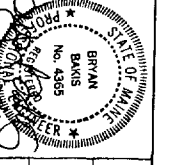


TECTONIC ENGINEERING
CONSULTANTS, P.C.
188 WARREN AVENUE
PORTLAND, MAINE 04103
CUMBERLAND COUNTY

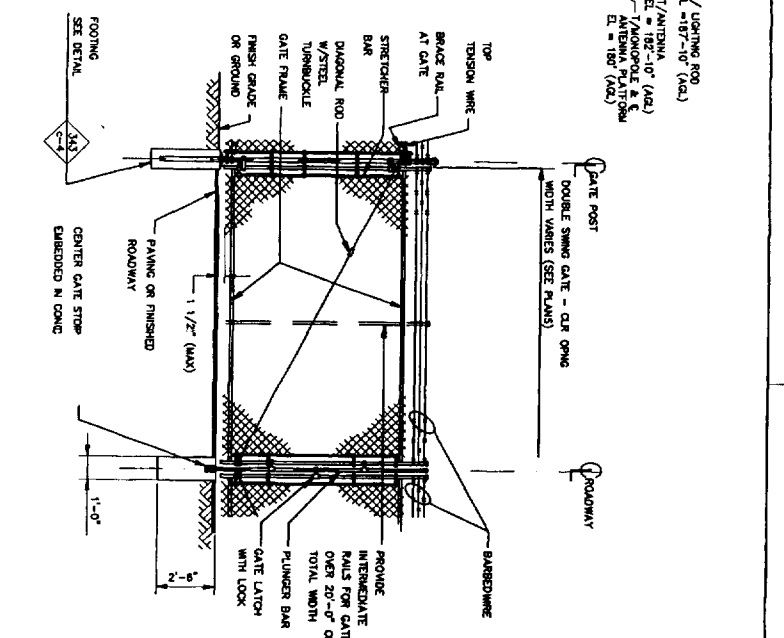
WEST PORTLAND
188 WARREN AVENUE
PORTLAND, MAINE 04103
CUMBERLAND COUNTY

Sprint Spectrum LP
135 COMMERCE WAY, SUITE 200, PORTSMOUTH, NH 03801
NEW HAMPSHIRE/MAINE MTA
SITE NO. NM03XC066D

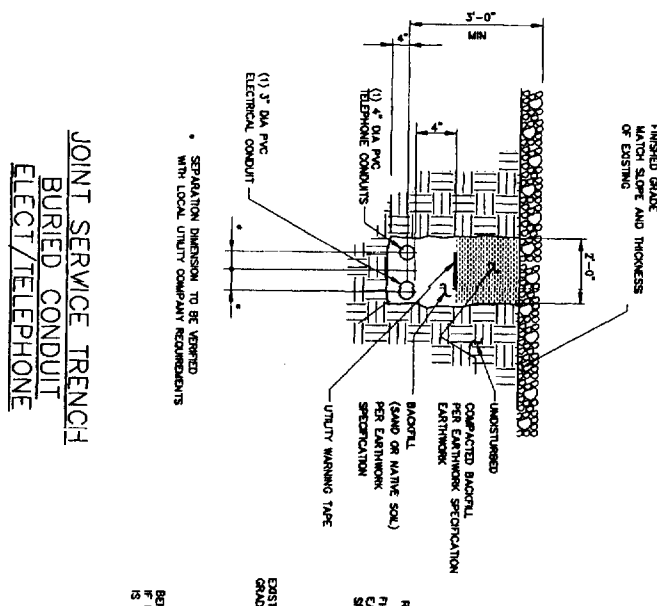
NO.	DATE	REVISIONS	BY	CHK	APP'D
1	11/25/06	ISSUED FOR COMMENT	WT		
2	10/23/06	ISSUED FOR CONSTRUCTION	EW		
3	10/9/06	ISSUED FOR REVIEW & COMMENT-CONST	EW		



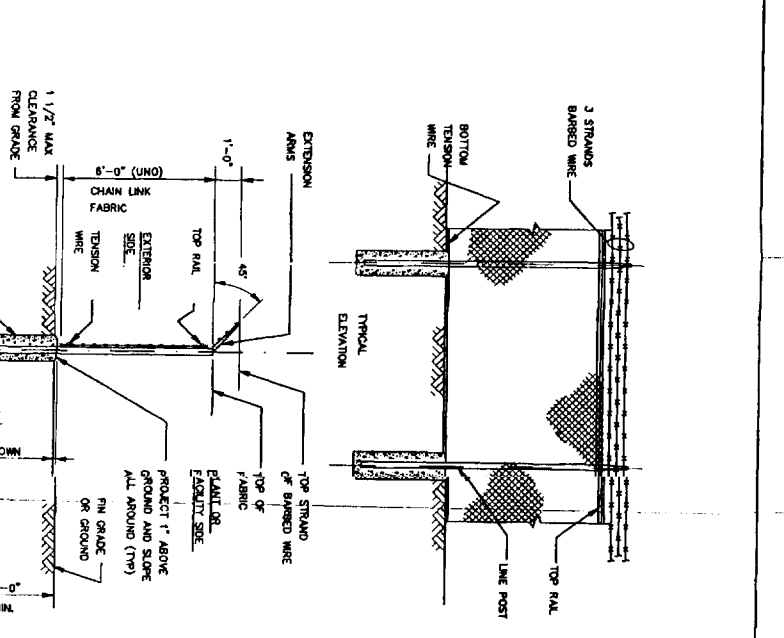
LUCCENT TECHNOLOGIES/BECHTEL ALLIANCE
SSP PROJECT
& SITE DETAILS
JOB NO. 23324
DRAWING NUMBER MCOU066DDC4



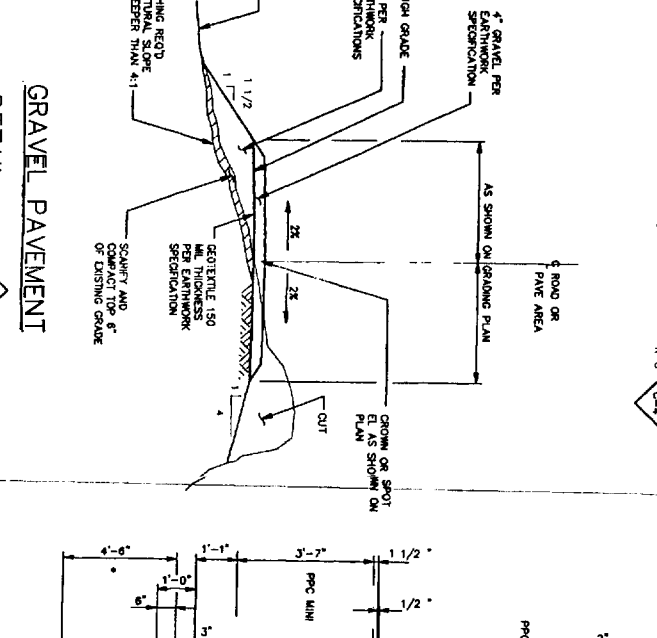
WOVEN WIRE SWING GATE, DOUBLE
DETAIL
SCALE: 1" = 20'



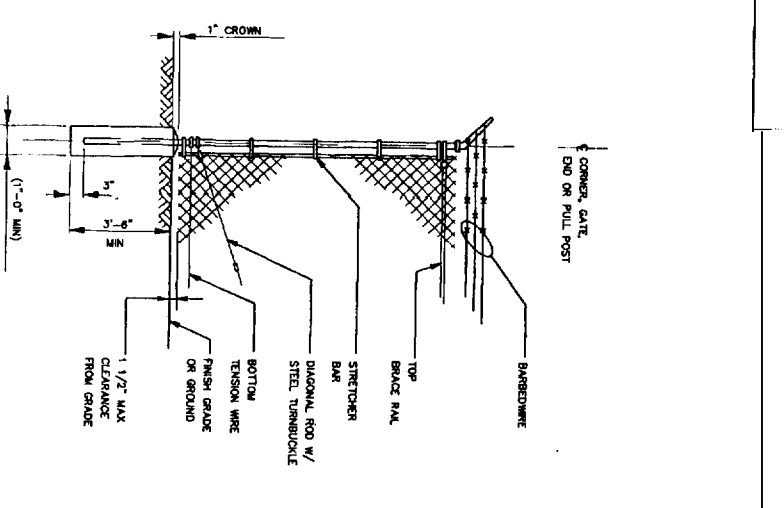
JOINT SERVICE TRENCH
BURIED CONDUIT
ELECT/TELEPHONE
DETAIL
SCALE: 1" = 20'



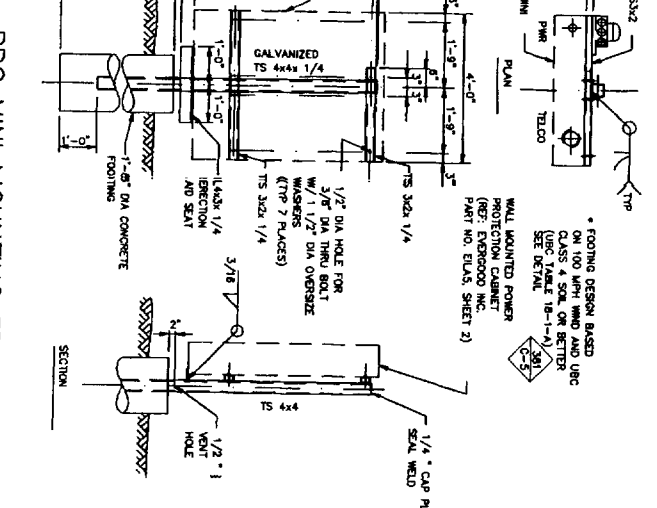
WOVEN WIRE FENCE
DETAIL
SCALE: 1" = 20'



GRAVEL PAVEMENT
DETAIL
SCALE: 1" = 20'



WOVEN WIRE CORNER,
GATE END OR PULL POST
DETAIL
SCALE: 1" = 20'



PPC MINI MOUNTING FRAME
DETAIL
SCALE: AS SHOWN

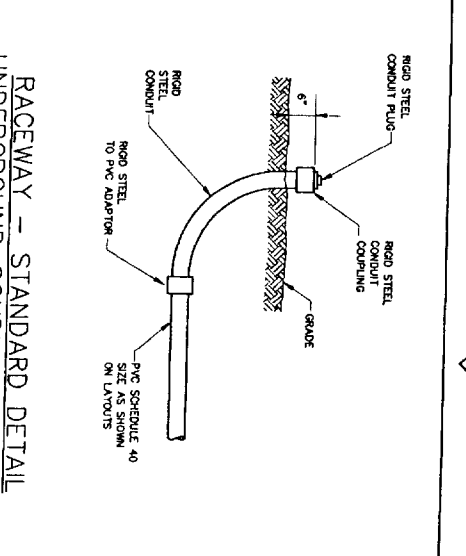
CONSTRUCTION NOTES

- ALL MATERIALS SHALL BE FENCED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS FOR CONSTRUCTION AND NO. 1-102. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
- CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION WORK.
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FENCE NOTES

- INSTALL FENCING PER ASTM F-387, SWING GATES PER ASTM F-1003
- GATE POST CORNER TERMINAL OR PULL POST 2 1/2" SCHEDULE 40 GATE POST WITH UP THRU 6" FEET OR 12" FEET DOUBLE SWING.
- LINE POST: 2" SCHEDULE 40 PIPE PER ASTM-F1003.
- GATE FRAME: 1 1/2" SCHEDULE 40 PIPE PER ASTM-F1003.
- TOP RAIL & BRACE RAIL: 1 1/2" SCHEDULE 40 PIPE PER ASTM-F1003.
- FABRIC: 12 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A932.
- THE WIRE MINIMUM 11 GA. GALVANIZED STEEL, 4" POSTS AND RAILS SHALL BE SPACED MAX 24" INTERVALS.
- TENSION WIRE: 7 GA. GALVANIZED STEEL.
- BARBED WIRE: DOUBLE STRAND 13-1/2" O.D. FINISHED WIRE TO MATCH W/ FABRIC 14 GA. 4 FT. BARBS SPACED ON APPROXIMATELY 3" CENTERS.
- AND LOCK, KEYS ALIKE FOR ALL LATCHES IN 4" CENTER W/ 1" COMPANION IF REQUIRED.
- LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE HEARD - 8" VERTICAL + 1" BARBED WIRE VERTICAL DIMENSION.

TYPICAL WOVEN WIRE FENCING NOTE



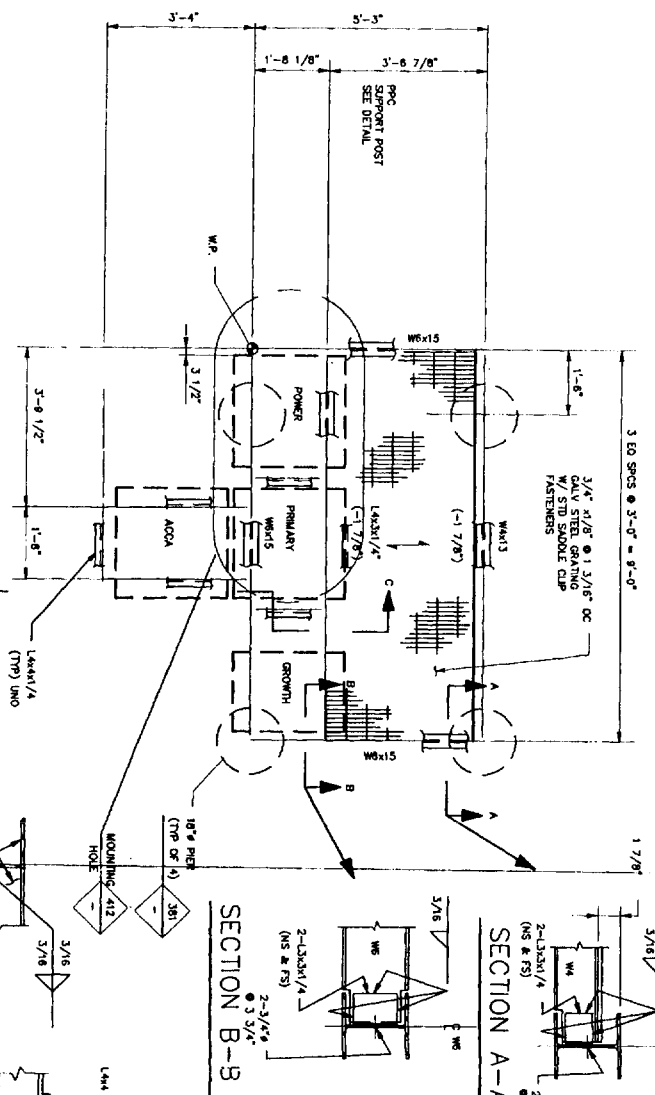
RACEWAY - STANDARD DETAIL
UNDERGROUND CONDUIT STUB-UP
DETAIL
SCALE: 1" = 20'

CONCRETE NOTES

- CONCRETE AND REINFORCING STEEL NOTES:
1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AC 308, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
 2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
 3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185, GRADE 60, UNLESS NOTED OTHERWISE. ALL REINFORCING SHALL BE STOKED, SHUT, AND ALL REINFORCING SHALL BE STOKED, SHUT, AND ALL REINFORCING SHALL BE STOKED, SHUT.
 4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR CONCRETE CAST AGAINST EARTH: 3 IN. FOR AND LARGER 2 IN. CONCRETE EXPOSED TO EARTH OR WEATHER: 1 1/2 IN. FOR AND SMALLER & W/W 1 1/2 IN. CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND: 3/4 IN. SLAB AND WALL 3/4 IN. CHAIRS AND COLLARS 1 1/2 IN.
 5. A 3/4" REBAR SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS IN ACCORDANCE WITH ACI 308 SECTION 4.2.4.
 6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER PER OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS. THE ANCHOR BOLT, DOWN DEPTH OR AS SHOWN ON THE DRAWINGS, NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL. WHEN DRILLING HOLES IN CONCRETE, WELDING OF REINFORCING STEEL IS SPECIALLY PROHIBITED.

STRUCTURAL NOTES

- GENERAL NOTES:
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
 2. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 3. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36.
 4. STEEL PIPE SHALL CONFORM TO ASTM A500 (COOL-FORMED WELDED & HEAVY WALL STEEL STRUCTURAL TUBING - GRADE A OR ASTM A513 TYPE E OR S, GRADE B, PIPE SIZES INDICATED ARE NOMINAL, ACTUAL SERVICE DIAMETER IS LARGER).
 5. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) CONFORM TO ASTM A325 HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SPLITABLE NUTS AND PLAIN HARDENED WASHERS. ALL BOLTS SHALL BE 3/4" DIA UNLESS OTHERWISE NOTED.
 6. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH THE FOLLOWING NOTES AND PLAIN HARDENED WASHERS ON IRON AND STEEL PRODUCTS, UNLESS OTHERWISE NOTED.
 7. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED STEEL HARDWARE UNLESS OTHERWISE NOTED.
 8. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780.
 9. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND WELDING METHODS USED IN CONNECTIONS, APPEARANCE AND WELDING. ALL WELDS AND WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (AWS) QUALIFICATION PROCEDURES. ALL WELDING SHALL BE DONE USING EXERCISE STEEL RODS AND WELDING SHALL CONFORM TO AWS AND D1.1. THE WELDING SHALL BE DONE IN ACCORDANCE WITH THE AWS MANUAL OF STEEL CONSTRUCTION, 9TH EDITION, AT THE OPTION OF WELDING. ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
 10. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE LISTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER IMMEDIATELY UPON DISCOVERY. ANY SUCH ACTION SHALL REQUIRE ENGINEER APPROVAL.
- STEEL NOTES:
1. ALL STEEL WORK SHALL BE GALVANIZED AND IN ACCORDANCE WITH THE SPECIFICATION ASTM A780 UNLESS OTHERWISE NOTED.
 2. ALL WELDING SHALL BE DONE USING EXERCISE STEEL RODS AND WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY (AWS) QUALIFICATION PROCEDURES. ALL WELDING SHALL BE DONE USING EXERCISE STEEL RODS AND WELDING SHALL CONFORM TO AWS AND D1.1. THE WELDING SHALL BE DONE IN ACCORDANCE WITH THE AWS MANUAL OF STEEL CONSTRUCTION, 9TH EDITION, AT THE OPTION OF WELDING. ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
 3. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
 4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
 5. CONTRACTOR TO INSTALL ACOA TO MOUNTING FRAME WITH 4-1/2" DIA BOLTS-ACOA TO BE PROVIDED BY LUCCENT.



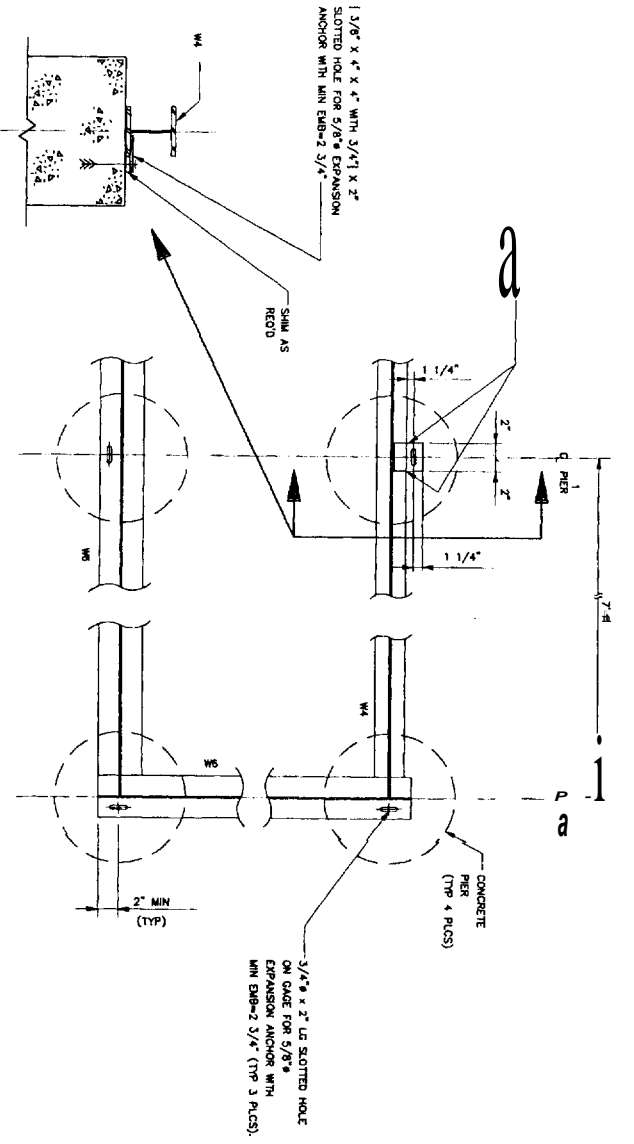
PCS EQUIPMENT SUPPORT FRAME ON CONC PIERS

DETAIL R-0 C-5

SECTION B-B

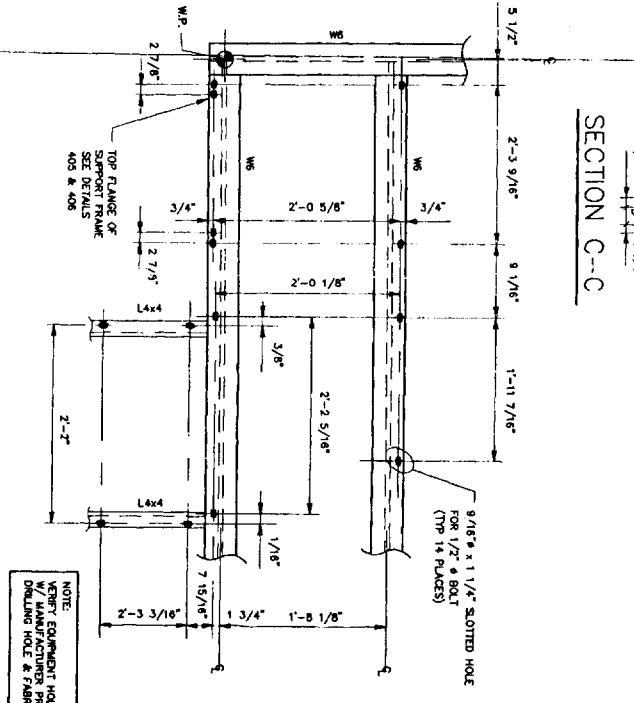
SECTION A-A

SECTION C-C



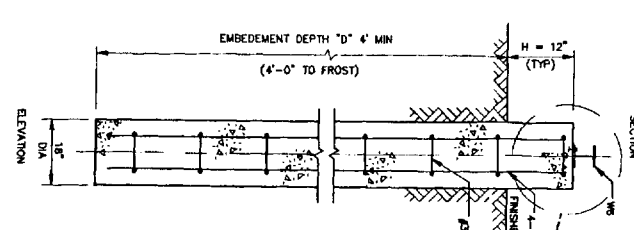
EQUIPMENT SUPPORT FRAME PIER BASE PLATE

DETAIL R-0 C-5



PCS CABINET SUPPORT FRAME MOUNTING HOLE LOCATION

DETAIL R-0 C-5



EQUIPMENT SUPPORT FOUNDATION PIER

DETAIL R-0 C-5

SOIL CLASSIFICATION PER UBC 94 TABLE 16-1-A	EMBEDMENT DEPTH "D"
1	3'-0"
	6'
	3'
	6'
	0'

TECTONIC ENGINEERING CONSULTANTS P.C.

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Sprint Spectrum LP

LUCCENT TECHNOLOGIES/BECHTEL ALLIANCE

714 COMMERCIAL STREET
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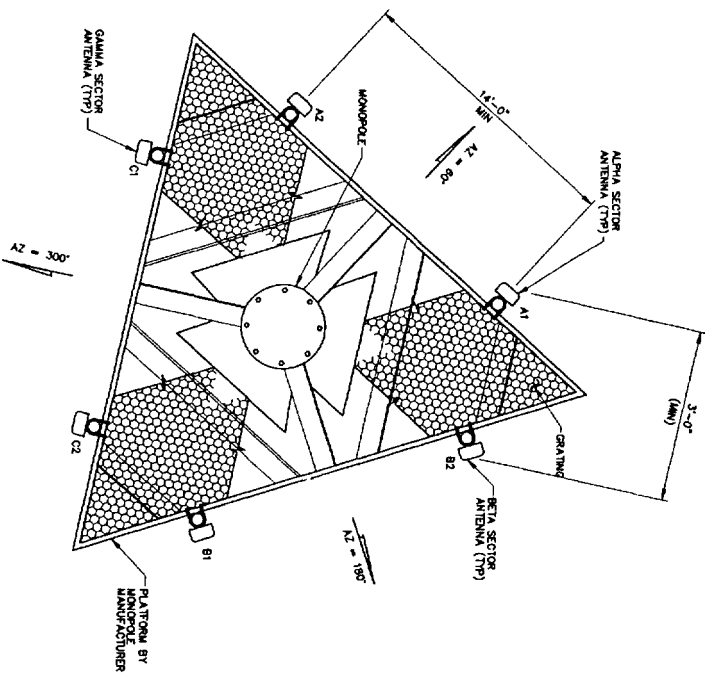
188 WARREN AVENUE
PORTLAND, MAINE 04103
CUMBERLAND COUNTY

135 COMMERCE WAY, SUITE 200, PORTSMOUTH, NH 03801
NEW HAMPSHIRE/MAINE MTA
SITE NO. NM03XC066D

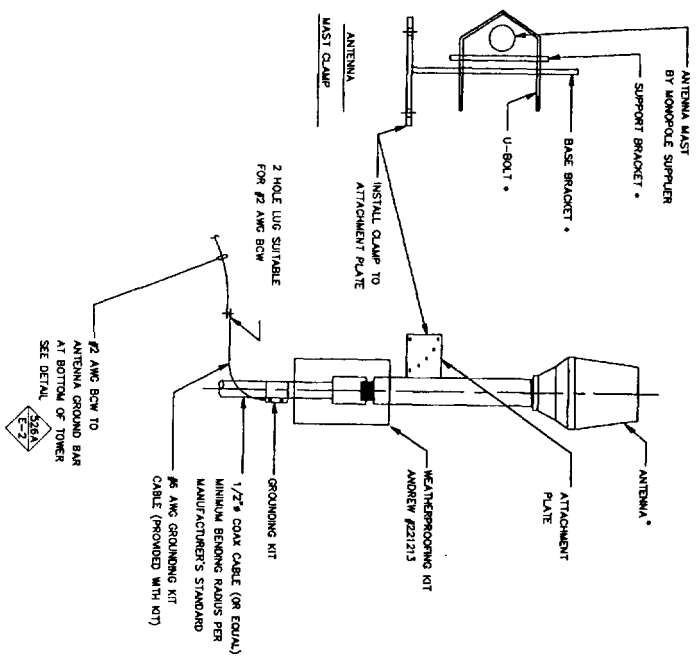
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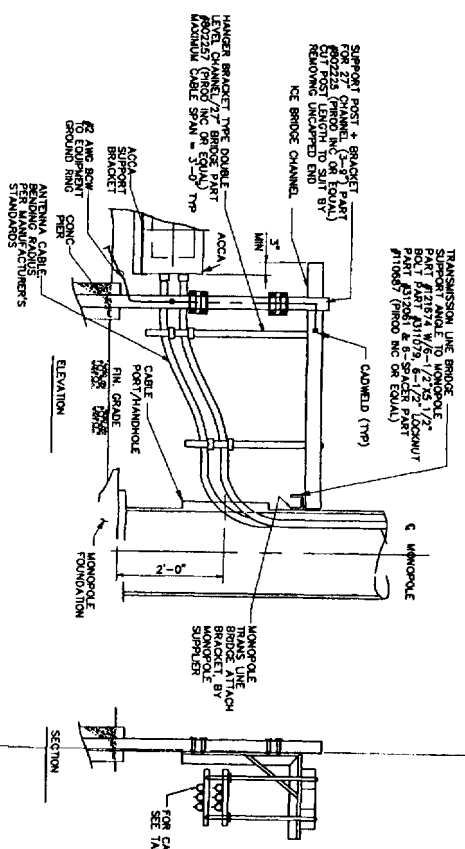
JOB NO.	DRAWING NUMBER	REV
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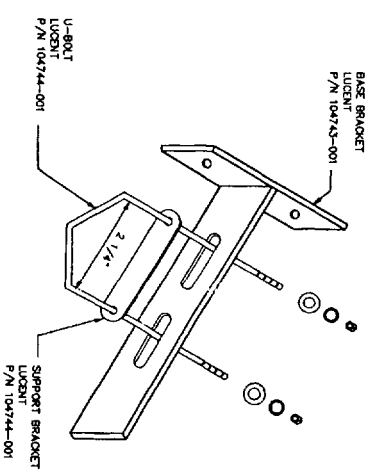
1 ANTENNA MOUNTING PLAN
SCALE: NTS



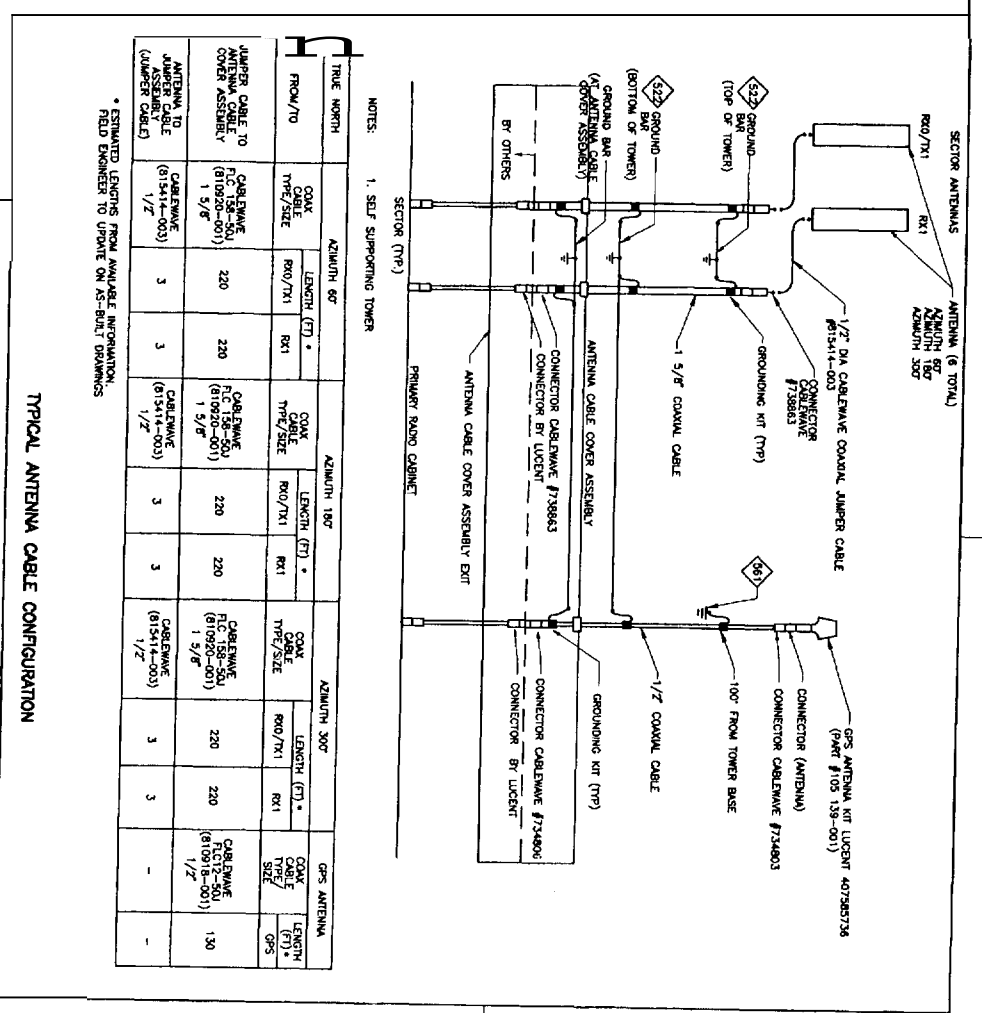
GPS ANTENNA INSTALLATION ON MAST
DETAIL
SCALE: NTS



- NOTES:
1. USING PROPO COMPONENTS AS SHOWN IN STANDARD DETAILS MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON CHANNEL OR 8 FEET TO 10 FEET BRIDGE CHANNEL.
 2. WHEN USING PROPO COMPONENTS FOR SPACING BRIDGE CHANNEL SECTIONS, THE SPACE SHOULD BE 2 FEET FROM THE END OF THE BRIDGE CHANNEL.
 3. ENDS OF ICE BRIDGE, WITH A TENSILE CAPACITY OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
 4. ICE BRIDGE CHANNEL SECTIONS SHOULD HAVE SAW EDGES TREATED WITH A MATERIAL TO RESIST CORROSION.
 5. ICE BRIDGE CHANNEL SECTIONS SHOULD BE CONSTRUCTED WITH COMPONENTS OTHER THAN PROPO.
 6. DIMENSIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE DEVIATIONS FROM ICE BRIDGE FOUNDATIONS SHOWN ON SITE SPECIFIC DRAWINGS OR STANDARD DETAILS REQUIRE ENGINEERING APPROVAL.



ICE BRIDGE
DETAIL
SCALE: NTS



TRUE NORTH	AZIMUTH 60°	AZIMUTH 180°	AZIMUTH 300°	GPS ANTENNA
FROM/TO	FROM/TO	FROM/TO	FROM/TO	FROM/TO
CABLE TYPE/SIZE	CABLE TYPE/SIZE	CABLE TYPE/SIZE	CABLE TYPE/SIZE	CABLE TYPE/SIZE
LENGTH (FT)	LENGTH (FT)	LENGTH (FT)	LENGTH (FT)	LENGTH (FT)
CONDUCTOR	CONDUCTOR	CONDUCTOR	CONDUCTOR	CONDUCTOR
DIAMETER (INCH)	DIAMETER (INCH)	DIAMETER (INCH)	DIAMETER (INCH)	DIAMETER (INCH)
WAVELENGTH (INCH)	WAVELENGTH (INCH)	WAVELENGTH (INCH)	WAVELENGTH (INCH)	WAVELENGTH (INCH)

COLOR CODE AND ANTENNA CONFIGURATION

SECTOR LABEL	ANTENNA TYPE	MANUFACTURER TYPE	CABLE COLOR CODE
A1	1) TRI AND RAD	ALICON 7184.15	RED
A2	2) TRI	ALICON 7184.15	RED/RED
B1	3) TRI AND RAD	ALICON 7184.15	WHITE
B2	4) TRI	ALICON 7184.15	WHITE/WHITE
C1	5) TRI AND RAD	ALICON 7184.15	BLUE
C2	6) TRI	ALICON 7184.15	BLUE/BLUE

ANTENNA DATA

SECTOR	AZIMUTH (TRUE NORTH)	MODEL #
ALPHA	60°	7184.15*
BETA	300°	7184.15*
GAMMA	300°	7184.15*

MANUFACTURER: ALICON (BOTTOM CONNECTOR)
ANTENNA DIMENSIONS: 5.1" x 4.5" x 2.7"/3.9"
* WITH ONE STANDARD BRACKET #1000
AND ONE TILT BRACKET #1050.1. COMMENT: - 0

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NEW HAMPSHIRE/MAINE MTA
SITE NO. NM03XC066D

NO.	DATE	REVISIONS	BY	CHK	APP'D
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2	10/23/96	ISSUED FOR REVIEW & COMMENT-CONST	EW		

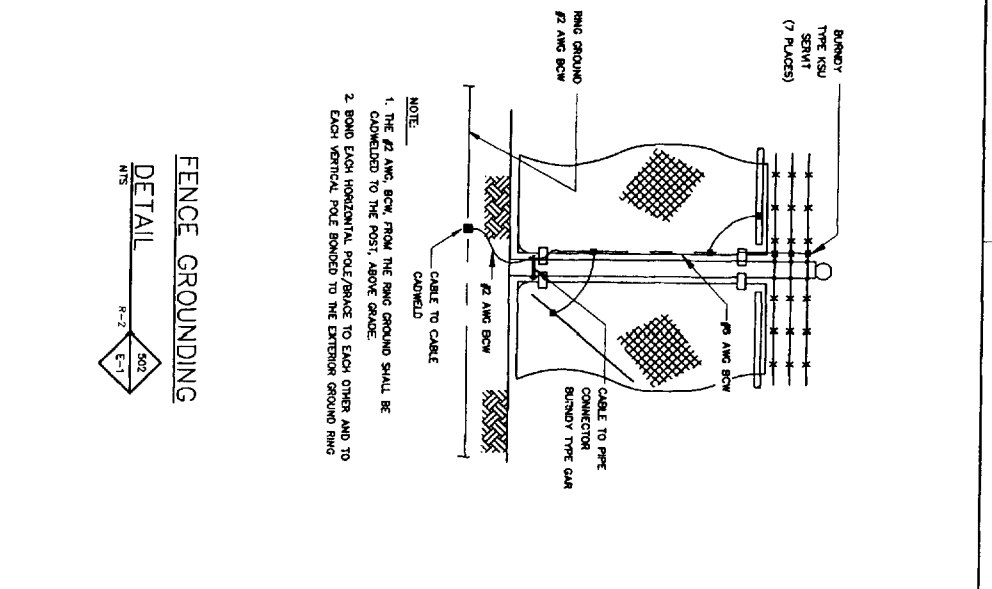
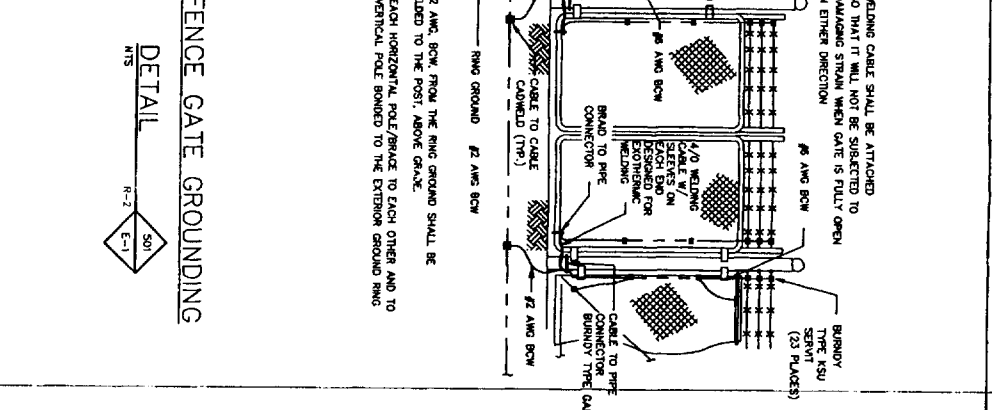
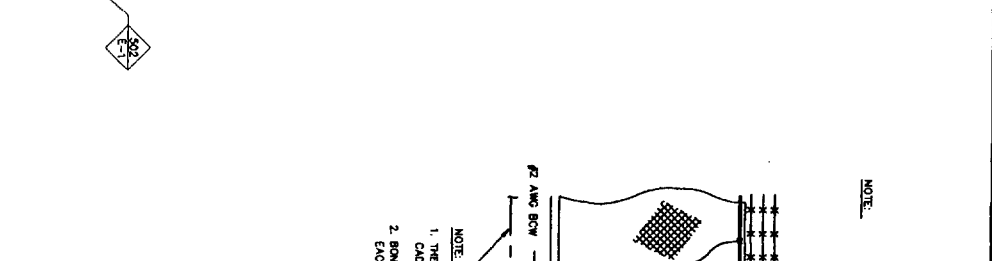
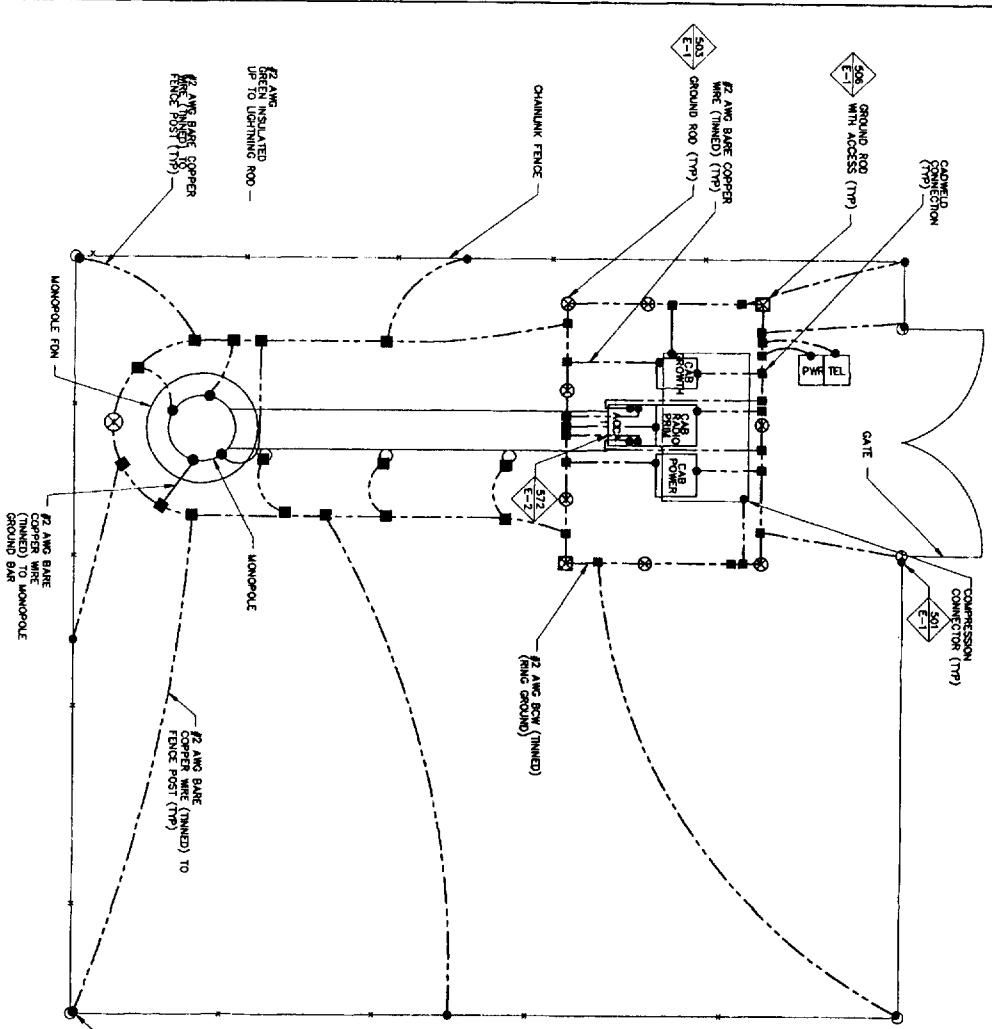
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DESIGNED BY: JF
DRAWN BY: EW

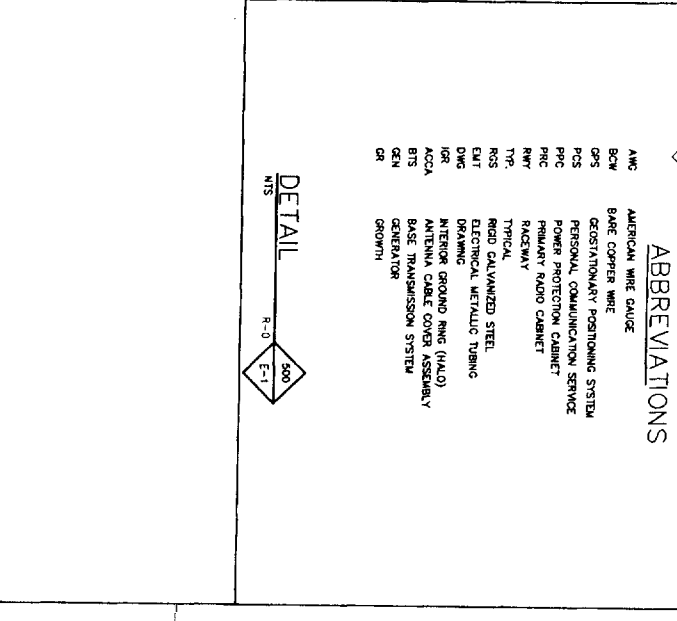
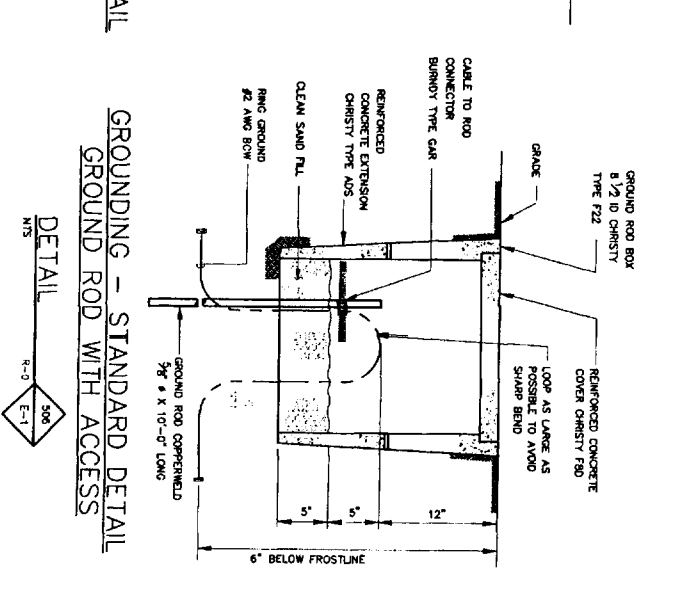
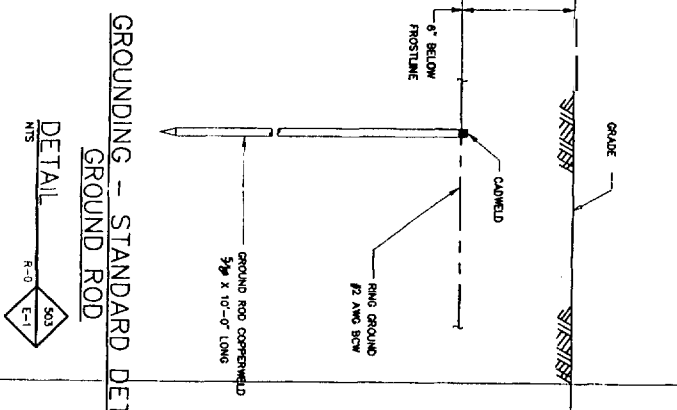
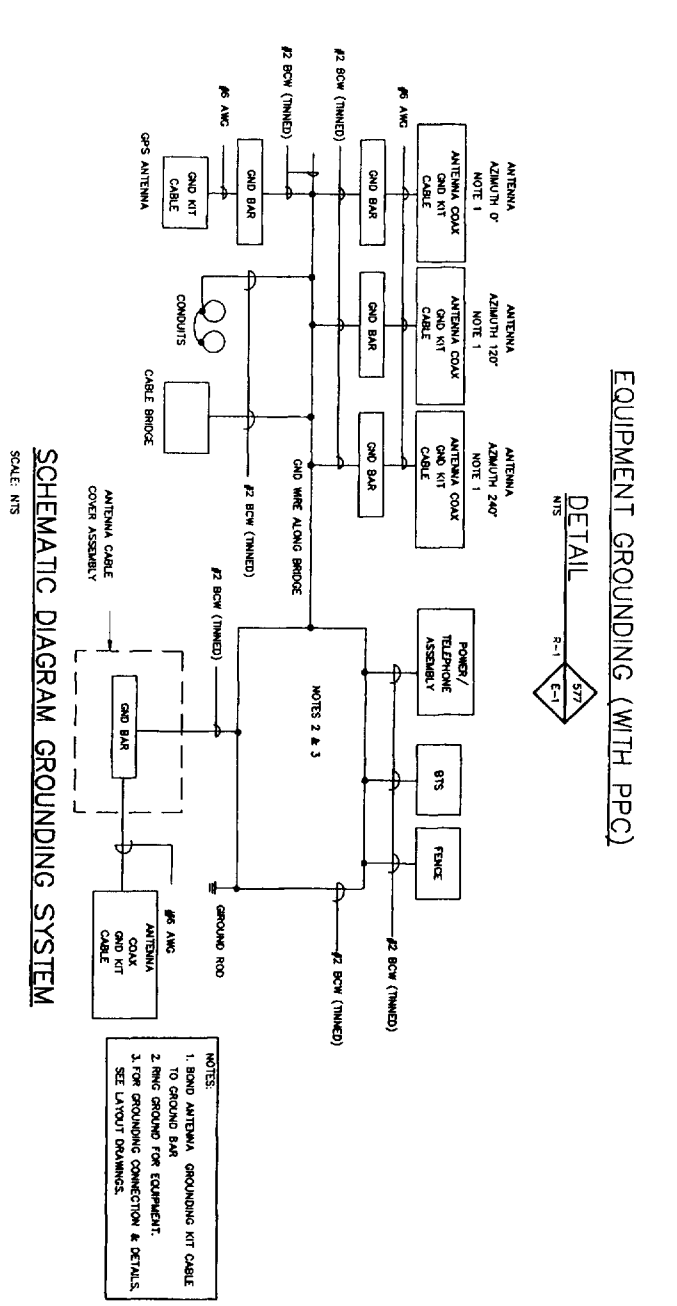
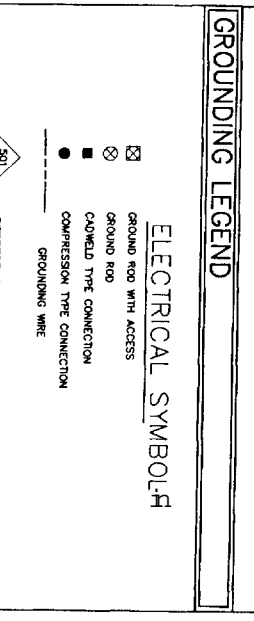
BRUN & BATES
REGISTERED PROFESSIONAL ENGINEERS
STATE OF MAINE
NO. 4885

LUCCENT TECHNOLOGIES/RECHTEL ALLIANCE
SSIP PROJECT
ANTENNA MOUNTING PLAN & DETAILS

JOB NO. 23224
DRAWING NUMBER MCU066D06
REV 0



- ### GROUNDING NOTES
- THE PURE GROUNDING INSTALLATION SHALL BE GROUNDING AS REQUIRED BY ALL APPLICABLE CODES.
 - A BURIED COPPER GND WITH GROUND RODS AROUND THE EQUIPMENT IS THE MOST ACCEPTABLE METHOD OF ACHIEVING THE DESIRED GROUND RESISTANCE. THE USE OF A COPPER GND WITH GROUND RODS IS TO BE PREFERRED TO THE USE OF A COPPER GND WITH GROUND RODS. THE FOLLOWING GROUNDING METHODS SHALL BE PROVIDED FOR THE FOLLOWING GROUNDING METHODS:
 - IF THE ADDING BUILDING IS A METAL FRAME STRUCTURE, AND IS ACCEPTABLE TO THE LOCAL INSPECTOR/AUTHORITY, THE BUILDING STRUCTURE SHALL BE BONDED TO THE GROUND. A METAL UNDERGROUND WATER PIPE WHERE ACCESSIBLE IN THE ADDING BUILDING MAY BE USED AS THE GROUNDING MEDIUM (NEC ARTICLE 250-81 e).
 - IF SPACE IS AVAILABLE, THE GROUND RODS AT TWO DIAGONALLY OPPOSITE CORNERS OF THE BUILDING SHALL BE BONDED TO THE GROUND. THIS IS NOT A COPPER RING AROUND THE BUILDING. NOTE LOCATIONS (ITEM 5 ABOVE) MAY BE BONDED IN THE GROUND (NEC ARTICLE 250-83).
 - AN EXISTING GROUND RING GND AROUND THE ADDING BUILDING/STRUCTURE MAY BE USED AS THE GROUNDING MEDIUM. THE MOST PREFERRED METHOD (NEC ARTICLE 250-81 d).
 - POWER SERVICE GROUNDING ELECTRODE AT THE BUILDING/STRUCTURE/SITE MAY BE USED AS GROUND MEDIUM.
 - CONCRETE ENCASED STEEL REINFORCING BARS AS PER NEC 250-81 (c) MAY BE USED AS GROUND MEDIUM. THIS IS A VERY ECONOMICAL SYSTEM.
 - OUTLINES, AT ALL TIMES THE CONTRACTOR MUST VERIFY THAT THE SYSTEM IS INSTALLED IN ACCORDANCE WITH THE LOCAL INSPECTOR/AUTHORITY'S REQUIREMENTS AND ACCEPTABLE TO THE LOCAL INSPECTOR/AUTHORITY. THE CONTRACTOR SHALL VERIFY THE PROJECT REQUIREMENT IS FIVE (5) OHMS.
 - GROUNDING CONDUCTORS SHALL BE SOLID THINNED COPPER AND ANNEALED #2.
 - GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY OWNER FOR FURTHER INSTRUCTION.
 - ALL CONNECTIONS, INTERIOR AND EXTERIOR, SHALL BE MADE WITH THOMAS AND BETTS KOPR-SHIELD ANTI-OXIDATION CONDUCTIVE, AND OTHER EQUIVALENT WILL BE ACCEPTED.



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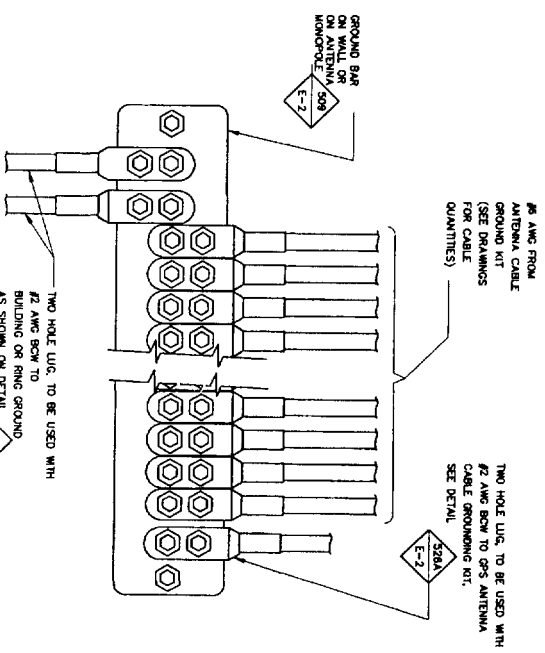
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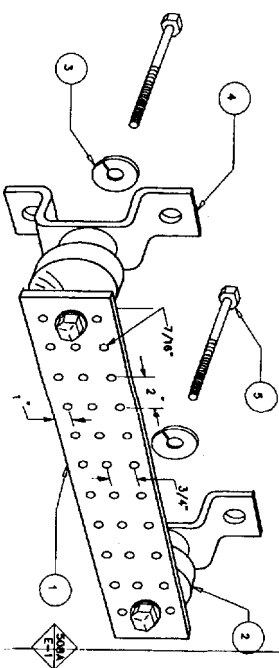
DESIGNED BY: F
DRAWN BY: EV

LUCENT TECHNOLOGIES/BECHTEL ALLIANCE
SSLP PROJECT
GROUNDING PLAN & DETAILS
JOB NO. 23224
DRAWING NUMBER MC00660E1



INSTALLATION OF GROUND WIRE TO GROUND BAR

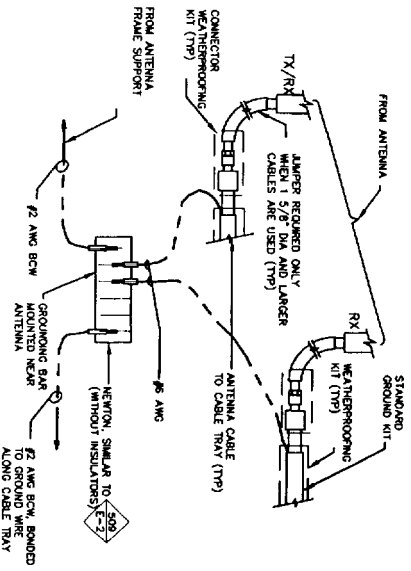
DETAIL
R-1 E-2
528A
NTS



- LEGEND
- 1- COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. CAT. NO. B-8142, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
 - 2- INSULATORS, NEWTON INSTRUMENT CO. CAT. NO. 2061-4
 - 3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 2015-8
 - 4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-8056
 - 5- 5/8-11 x 1" H.H.C. BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 2012-1

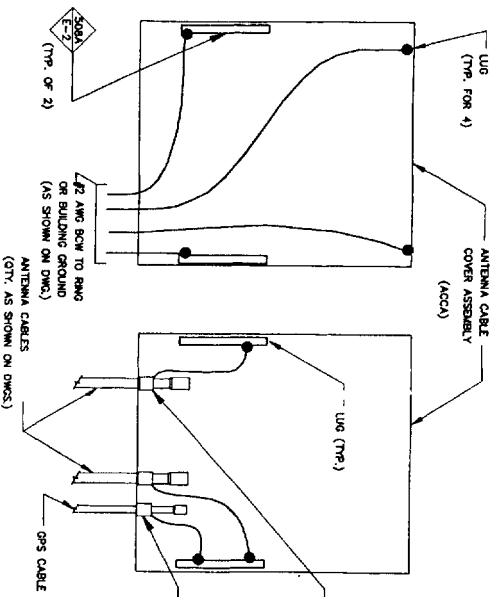
GROUNDING - STANDARD DETAIL
GROUND BAR DETAIL

DETAIL
R-2 E-2
529
NTS



GROUNDING - STANDARD DETAIL
CONNECTION OF GROUND WIRES TO
GROUNDING BAR AT 2 ANTENNAS
DETAIL

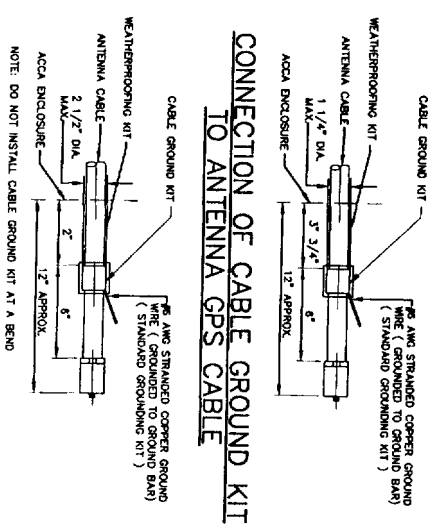
DETAIL
R-3 E-2
522
NTS



NOTE: FOR NUMBER OF GROUNDING RODS REQUIRED REFER TO SPECIFICATION 16000.

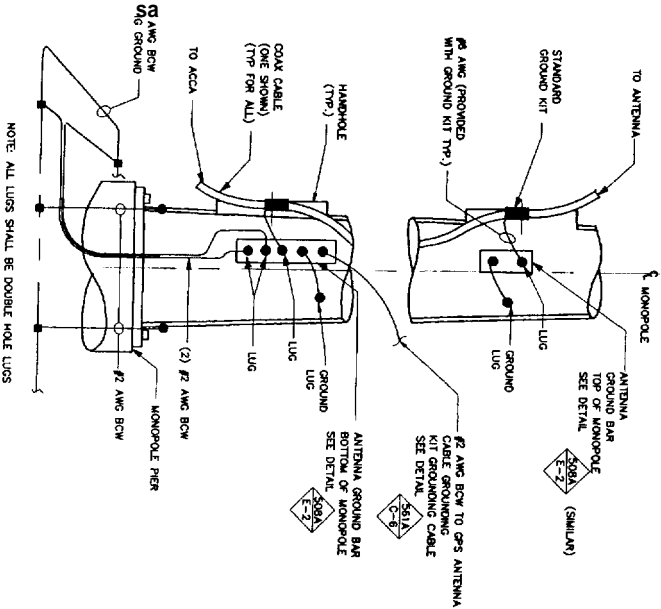
GROUNDING - STANDARD DETAIL
ANTENNA CABLE AND COVER ASSEMBLY GROUNDING
DETAIL

DETAIL
R-1 E-2
512
NTS



CONNECTION OF CABLE GROUND KIT
TO ANTENNA GPS CABLE
DETAIL

DETAIL
R-1 E-2
513
NTS



NOTE: ALL LUGS SHALL BE DOUBLE HOLE LUGS

ANTENNA CABLE GROUNDING TO
GROUND BAR AND MONOPOLE
DETAIL

DETAIL
R-3 E-2
514
NTS

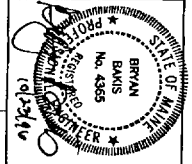
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