

ME5045

cingularSM

W I R E L E S S

USM PORTLAND

DRAWING INDEX

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REV.

DIRECTIONS

TAKE I-95 NORTH FOR TO EXIT# 44 1-295. TAKE 1-295 FOR 5.4 MILES TO S. PORTLAND/PORTLAND DOWNTOWN EXIST. TAKE THE ME-100 N/US-1/US-302 W EXIT# 68 FOR 0.2 MILES. BEAR RIGHT AT 10TH MOUNTAIN DIVISION HWY/FOREST AVE/BLUE STAR MEMORIAL HWY FOR 0.2 MILES. TURN LEFT AT BEDFORD ST FOR 0.3 MI. TURN RIGHT AT BRIGHTON AVE FOR 0.1 MILES. SITE IS DIRECTLY ON THE LEFT AT THE INTERSECTION OF BRIGHTON AVE AND DEERING AVE.

VICINITY MAP



PROJECT INFORMATION

SCOPE OF WORK: INSTALLATION OF CINGULAR EQUIPMENT, ANTENNAS, AND ASSOCIATED HARDWARE

SITE ADDRESS: DEERING AVENUE
PORTLAND, ME 03082

PROPERTY OWNER: UNIVERSITY OF MAINE SYSTEM
107 MAINE AVE
BANGOR ME 04401

APPLICANT/TOWER OWNER: CINGULAR WIRELESS
580 MAIN STREET
BOLTON, MA 01740
TEL. (781) 690-7422


LATITUDE : N 43°-39'-39.61" (AERIAL PHOTOGRAPHY)
LONGITUDE : W 70°-16'-44.81" (AERIAL PHOTOGRAPHY)
ELEVATION (AMSL): 800'

JURISDICTION: CITY OF PORTLAND
TAX I.D. NUMBER: MAP 51, LOT E-1
CURRENT USE: LITERARY & SCIENTIFIC INSTITUTION
PROPOSED USE: PROPOSED WIRELESS TELECOMMUNICATIONS FACILITY

SITE QUALIFICATION PARTICIPANTS

NAME	COMPANY	NUMBER
A/E EAMON KERMAN	AERIAL SPECTRUM INC.	(781) 942-0024
SAC CHRIS DWIGHT	TRM	(508) 389-1734

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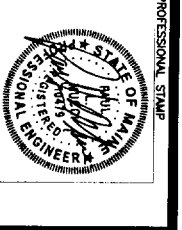
AERIAL SPECTRUM

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DEERING AVENUE
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CONSTRUCTION DEPARTMENT
580 MAIN STREET
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NO.	DATE	REVISIONS	BY	CHK	APP'D
C	04-13-06	FOR COMMENT	PRC	PLM	ETK
B	02-14-06	FOR COMMENT	PRC	PLM	ETK
A	11-01-05	FOR COMMENT	PRC	PLM	ETK

SCALE:	AS SHOWN	DESIGNED:	PRC	DRAWN:	PRC



CINGULAR WIRELESS

TITLE SHEET

DRAWING NUMBER: T-1

REV: C

GENERAL CONSTRUCTION NOTES

1. THIS PROPOSAL IS FOR AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF PROPOSED PIPE MOUNTED ANTENNAS AND THE PLACEMENT OF OUTDOOR EQUIPMENT CABINETS ON THE EXISTING ROOF.
2. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITATION. (NO HANDICAP ACCESS IS REQUIRED).
4. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY CINGULAR TECHNICIANS AND UNIVERSITY MAINTENANCE STAFF.
5. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL.
6. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT PROPOSED.
7. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
9. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.
10. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
11. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND DRAWINGS PROVIDED BY THE SITE OWNER. SUBCONTRACTOR SHALL NOTIFY BECKETL OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
12. NO WHITE STROBIC LIGHTS ARE PERMITTED, LIGHTING, IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
13. SUBCONTRACTOR SHALL CALL DIG-SAFE FOR UNDERGROUND UTILITY MARKOUT PRIOR TO CONSTRUCTION. 1-800-DIG-SAFE.
14. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS CONTRACTOR IS BECKETL, SUBCONTRACTOR IS THE GENERAL CONTRACTOR. CONSTRUCTION AND OWNER IS AT&T WIRELESS SERVICES.

SITE WORK GENERAL NOTES

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION. TELECOM/FIBER LINES ARE IN THE AREA OF THE PROPOSED UNDERGROUND UTILITY RUN.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TREMORING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE ROSS EQUIPMENT AND TOWER AREAS.
6. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
7. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
8. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
9. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
10. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

STRUCTURAL STEEL NOTES

1. ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AWS D1.1, WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL USE BEARING TYPE 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 ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. CONCRETE EXPANSION ANCHORS AND EPOXY ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. MANUFACTURER'S MINIMUM CONCRETE EDGE DISTANCE SHALL BE MAINTAINED DURING INSTALLATION.

CONCRETE AND REINFORCING STEEL NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM TA184, ASTM A185 AND THE PROJECT SPECIFICATIONS.
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 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOPS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH..... 3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER 2 IN.
#5 AND SMALLER & WWF 3/4 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL 3/4 IN.
BEAMS AND COLUMNS 1 1/2 IN.
5. A 1" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSEY/REDHEAD OR APPROVED EQUAL.

APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

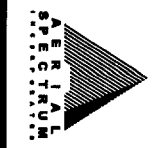
BUILDING CODE:
MAINE STATE BUILDING CODE LATEST EDITION
ELECTRICAL CODE:
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70 - 99SB, NATIONAL ELECTRICAL CODE
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, A50, NINTH EDITION
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM (IEEE 1100 (1999)) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT
TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
TELECORD GR-1503 COAXIAL CABLE CONNECTIONS
FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

CONCRETE PLACEMENT NOTES

1. REMOVE ALL ORGANIC MATERIAL PRIOR TO PLACEMENT OF STONE. IF FILLING IS REQUIRED, BACKFILL AND COMPACT WITH WELL-DRAINING GRAVEL.
2. IF SOUND ROCK IS ENCOUNTERED AT LESS THAN THE SPECIFIED FOUNDATION DEPTH, USE ALTERNATIVE FOUNDATION.
3. CONTACT ENGINEER IF SITE CONDITIONS VARY FROM STATED FOUNDATION DESIGN CRITERIA.
4. FOUNDATION DESIGN SUBJECT TO MODIFICATION BASED UPON SHELTER DESIGN CHANGES BY MANUFACTURER. VERIFY DESIGN ACCEPTANCE WITH PROJECT MANAGER PRIOR TO CONSTRUCTION.
5. CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION IN ACCORDANCE WITH ACI STANDARD 309-72. RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
6. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 psi AT 28 DAYS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE ACI-318-83 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. SLUMP SHALL BE 2"-5" AND MAXIMUM AGGREGATE SHALL BE 3/4".
7. DETAILING, FABRICATION, PLACING, AND SUPPORTS SHALL BE IN ACCORDANCE WITH ACI 318-89 AND CRSI.
8. REINFORCING BARS SHALL CONFORM TO ASTM-A615-82 GRADE 60 SPECIFICATIONS AND BE DETAILED IN ACCORDANCE WITH ACI-318-83.
9. MAXIMUM PERMISSIBLE VARIATION OF PIER LOCATION SHALL BE 1". CONCRETE PIER VARIANCE FROM PLUMB SHALL NOT EXCEED 3/4".
10. TOPS OF CONCRETE PIERS SHALL BE WITHIN 0.02 FEET OF ELEVATION SPECIFIED. SHIM, AS REQUIRED, TO LEVEL THE SHELTER.
11. COLD WEATHER/HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 305 AND 306.
12. BROUPE CONCRETE TEST CYLINDERS: 1 AT 7 DAYS, 2 AT 28 DAYS. SUBMIT TEST DATA TO PROJECT MANAGER FOR REVIEW AND APPROVAL.
13. AS WITH ALL EXCAVATION, CARE TO BE TAKEN DUE TO EXISTENCE OF EXISTING UNDER-GROUND UTILITIES

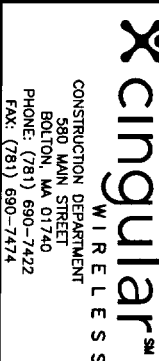
ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE	MG	MASTER GROUND BUS
BCW	BARE COPPER WIRE	MIN	MINIMUM
BTS	BASE TRANSCIVER STATION	(N)	NEW
(E)	EXISTING	N.T.S.	NOT TO SCALE



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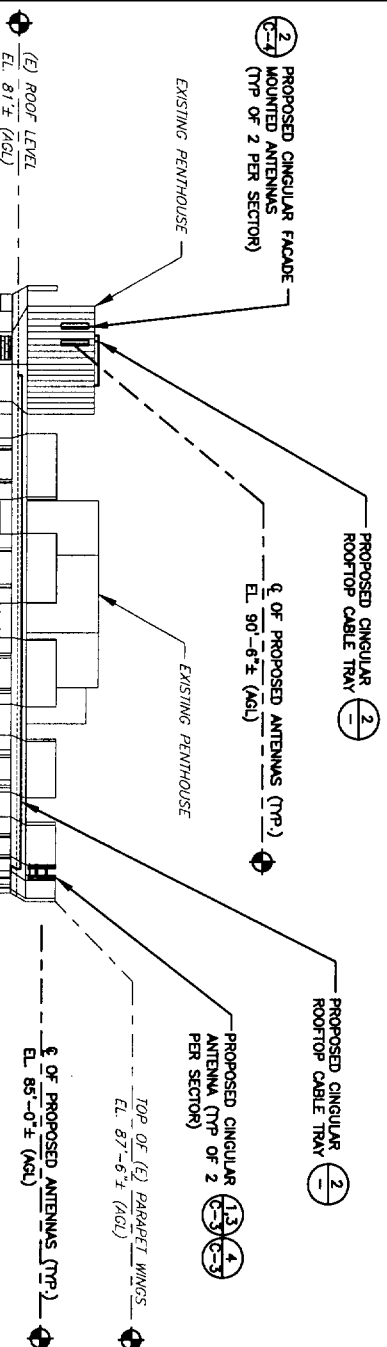
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B	D2-14-08	FOR COMMENT	PRC	PLM	ETK
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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE:	AS SHOWN	DESIGNED:	PRC	DRWN:	PRC



CINGULAR WIRELESS
GENERAL NOTES
DRAWING NUMBER
GN-1

REV	C
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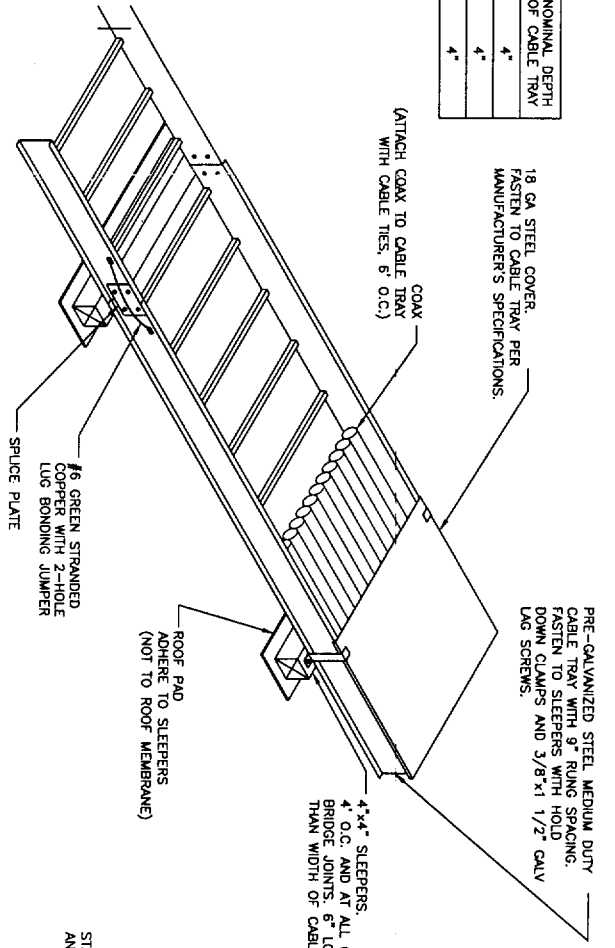
NUMBER OF COAXIAL CABLES	WIDTH OF CABLE TRAY	NOMINAL DEPTH OF CABLE TRAY
12	24"	4"
8	18"	4"
4	12"	4"



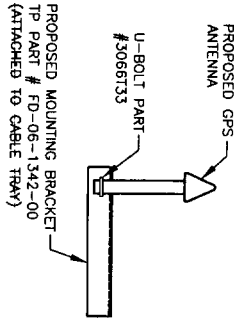
NORTHWEST ELEVATION
SCALE: 1/8"=1'-0"



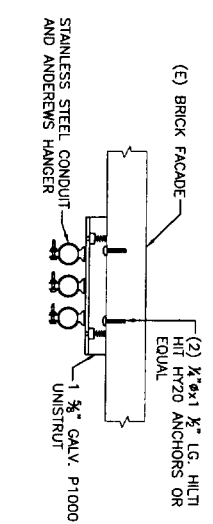
ROOF MOUNTED COAX TRAY
SCALE: N.T.S.



GPS SUPPORT
SCALE: N.T.S.

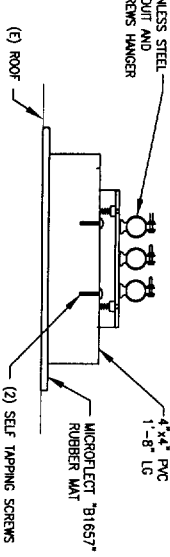


EXTERIOR CONDUIT RUN
SCALE: N.T.S.

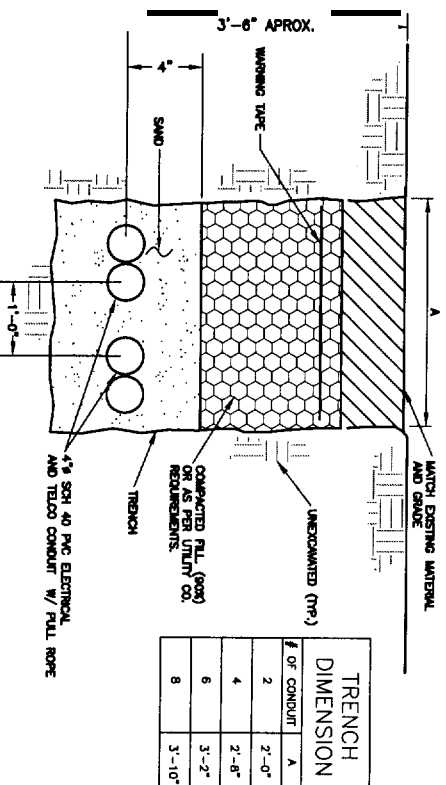


NOTE: EXPOSED CONDUIT AND HARDWARE TO MATCH THE COLOR OF THE EXISTING SURROUNDINGS.

CONDUIT RUN ON ROOF
SCALE: N.T.S.



TRENCH DETAIL- ELEC/TELCO
SCALE: N.T.S.



TRENCH DIMENSION	A
2	2'-0"
4	2'-6"
6	3'-2"
8	3'-10"

- NOTE:
1. USE STAINLESS STEEL ANCHORS INTO CONCRETE. USE CARBON STEEL ANCHORS INTO BRICK OR MASONRY. USE TOGGLE BOLTS INTO STUD WALLS.
 2. ANCHOR TO BE INSTALLED IN 1/2" HOLES DRILLED W/ HILT CARBIDE TIPPED DRILL BITS. ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 3. DETAIL BASED ON THE USE OF MICROFLECT AND HILT BY LESSEE/LICENSEE.
 4. PAINT ALL MOUNTING BRACKETS TO MATCH COLOR OF EXISTING BUILDING.

NO. OF CABLES	SPACER KIT	NO. OF ANCHORS	A
1 TO 4	B1580	2	11 1/2"
5 TO 6	B1590	3	21 1/2"
9 TO 12	B1591	3	30 1/2"

VERTICAL COAX CABLE TRAY
SCALE: N.T.S.



- NOTE:
1. IF FREE OF ORGANIC OR OTHER DESTRUCTIVE MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, FURNISH CLEAN COMPACTIBLE MATERIAL. COMPACT TRENCHING REGARDLESS OF THE NUMBER OF CONDUITS PER TRENCH. REMOVE ANY UNDER ROCKS PRIOR TO BACKFILLING.
 2. CONDUITS SHOWN DO NOT NEED TO BE IN SAME TRENCH UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHOWN ARE FOR ALL CONDUITS PER TRENCH.
 3. CARE TO BE TAKEN TO AVOID EXISTING UNDERGROUND UTILITIES.

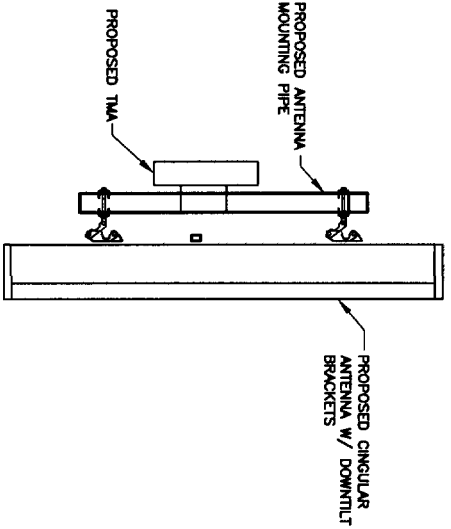
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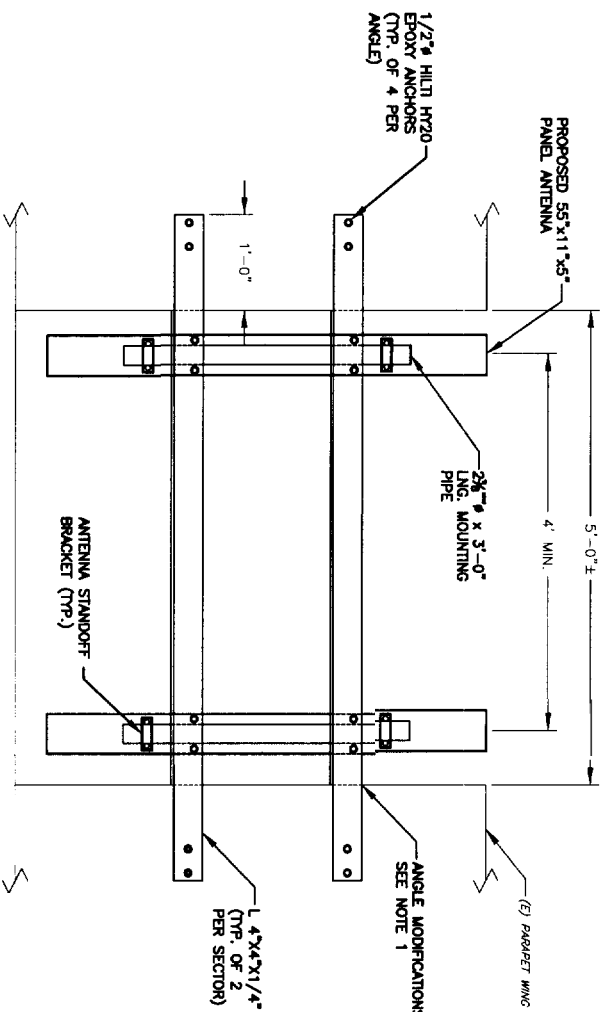
SCALE:	AS SHOWN	DESIGNED:	PRC ETH	DRAWN:	PRC PH
CINGULAR WIRELESS					
ELEVATION AND CONSTRUCTION DETAILS					
DRAWING NUMBER	C-2				
REV	C				



TMA NOTE:
THE REQUIRED NUMBER OF TMA'S PER ANTENNA, BASED ON RF REQUIREMENTS, CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION

ANTENNA DETAIL

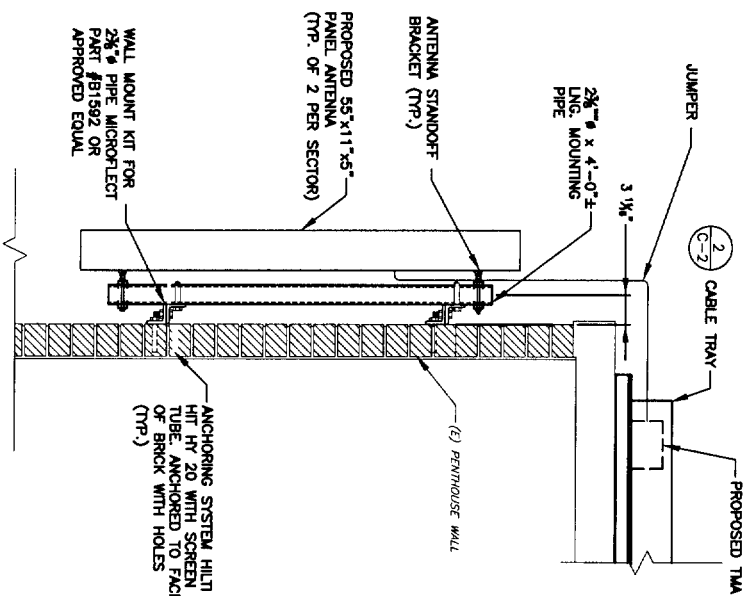
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NOTES:
1. CUT AND BEND ANGLE FLUSH WITH PARAPET WING. (TYP. OF 2 PER ANGLE)

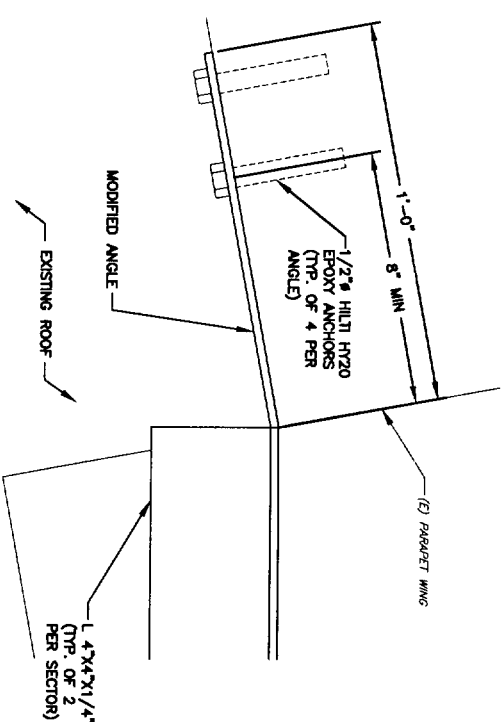
NOTES:
1. PRIME AND PAINT ALL MOUNTING BRACKETS AND ANTENNAS TO MATCH (E) BUILDING FACADE W/GROUT LINES.

ANTENNA MOUNTING DETAILS

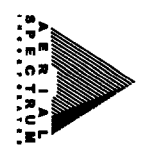


NOTES:
1. PRIME AND PAINT ALL MOUNTING BRACKETS AND ANTENNAS TO MATCH (E) BUILDING FACADE W/GROUT LINES.

FACADE ANTENNA MOUNTING DETAIL



ANGLE MOUNTING DETAIL



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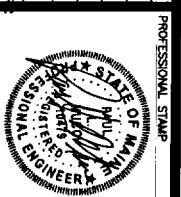
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SCALE: AS SHOWN
DESIGNED: PRC
ETK
DRAWN: PRC
PLM



CINGULAR WIRELESS
CONSTRUCTION DETAILS

DRAWING NUMBER
C-4

REV
C

