

**PROJECT INFORMATION**

CELLCO PARTNERSHIP d/b/a

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF A PROPOSED AT&T 12'X20' EQUIPMENT SHELTER AND A VERIZON WIRELESS 12'X20' EQUIPMENT SHELTER WITHIN A PROPOSED FENCED COMPOUND AND TWELVE (12) NEW ANTENNAS ON A PROPOSED 140' SELF SUPPORT TOWER

SITE ADDRESS: 775 FAIRVIEW ROAD  
COATESVILLE, PA 19320

LATITUDE: N 39° 56' 06.84607" (NAD 83)  
LONGITUDE: W -75° 47' 52.13872" (NAD 83)

JURISDICTION: TOWNSHIP OF EAST FALLOWFIELD, CHESTER COUNTY, PA

ZONING DISTRICT CLASSIFICATION: RA - RURAL AGRICULTURAL DISTRICT

TAX ID. NO: PARCEL 47-08-0023.07D

PARCEL SIZE: ±100.58 ACRES

PROPOSED USE: TELECOMMUNICATIONS FACILITY

PROPERTY OWNER: RICHARD A. & CAROLYN D. VERMEIL  
1541 FAIRVIEW ROAD  
COATESVILLE, PA 19320

NAME OF APPLICANTS: NEW CINGULAR WIRELESS PCS, LLC d/b/a AT&T MOBILITY  
200 N. WARNER ROAD  
KING OF PRUSSIA, PA 19406 (610-995-5220)

CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS  
5175 CAMPUS DRIVE  
PLYMOUTH MEETING, PA 19462



**NEW CINGULAR WIRELESS PCS,  
LLC d/b/a AT&T MOBILITY**

**SITE NUMBER: FA10134348**

**SITE NAME: DOE RUN**

AUG 11 2010  
BY: Denise Miller



**SITE NAME: PHI-KINGS RANCH**

**775 FAIRVIEW ROAD**

**COATESVILLE, PA 19320**

**VICINITY MAP**

**DIRECTIONS:**  
DRIVING DIRECTIONS FROM AT&T MARKET OFFICE: DEPART RAMP FOR I-76/SCHUYLKILL EXPRESSWAY EAST. AT EXIT 328B, TAKE RAMP RIGHT FOR US-202 SOUTH/WEST DEKALB PIKE TOWARD WEST CHESTER. TAKE RAMP RIGHT FOR US-30 WEST/EXTON BYPASS TOWARD DOWNTOWN/COATESVILLE. TAKE RAMP RIGHT FOR PA-340 TOWARD THORNDALE. TURN LEFT ONTO SR-340/BONDSVILLE ROAD. ROAD NAME CHANGES TO THORNDALE MARSHALLTON ROAD. TURN RIGHT ONTO POORHOUSE ROAD. TURN LEFT ONTO BROAD RUN ROAD. TURN RIGHT ONTO SHADYSIDE ROAD. TURN RIGHT ONTO STRASBURG ROAD. TURN LEFT ONTO FAIRVIEW ROAD. THE SITE WILL BE ON THE LEFT.

**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: INTERNATIONAL BUILDING CODE 2009  
NATIONAL ELECTRICAL CODE: NEC 2008  
FIRE/LIFE SAFETY CODE: NFPC 1996

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
- 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
- IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
- TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS
- TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS
- ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

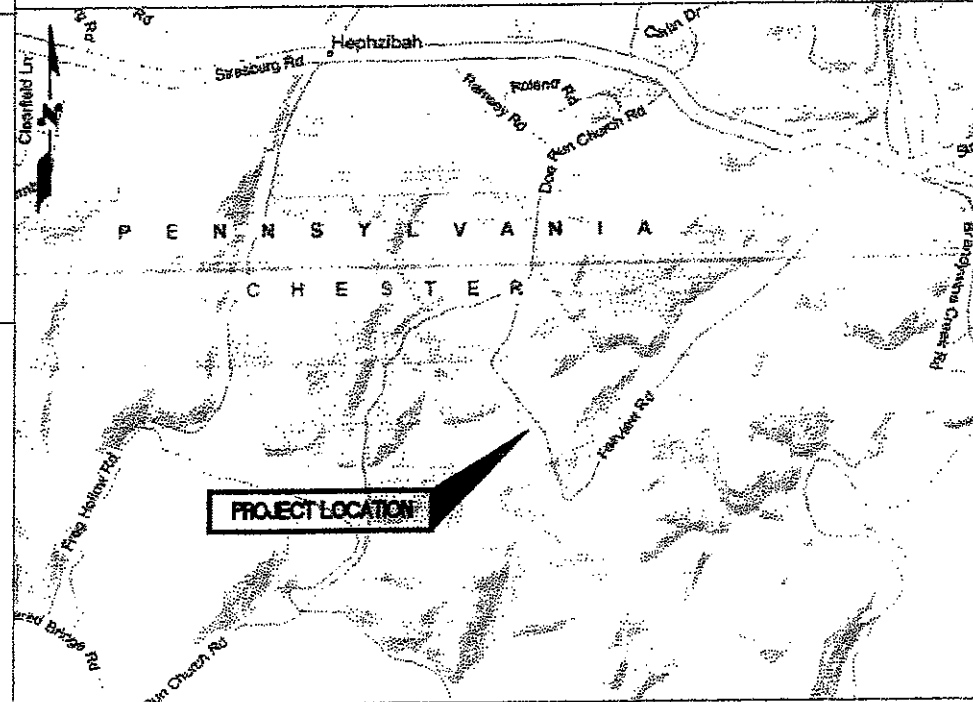
FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

**DRAWING INDEX**

**REV**

- T-1 TITLE SHEET
- Z-1 ZONING INFORMATION
- Z-2 SITE PLAN
- Z-3 PARTIAL SITE PLAN
- Z-4 COMPOUND LAYOUT
- Z-5 ELEVATION VIEW
- A-1 AT&T CONSTRUCTION DETAILS - 1
- A-2 AT&T CONSTRUCTION DETAILS - 2
- A-3 AT&T CONSTRUCTION DETAILS - 3
- A-4 VERIZON CONSTRUCTION DETAILS

- 2
- 2
- 2
- 2
- 2
- 2
- 2
- 2
- 2
- 2



DETAIL 103M

NOT TO SCALE

**ENDORSEMENTS**

APPROVED BY EAST FALLOWFIELD TOWNSHIP

BOARD CHAIRPERSON \_\_\_\_\_ DATE \_\_\_\_\_

BOARD SECRETARY \_\_\_\_\_ DATE \_\_\_\_\_

TOWNSHIP ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

**ENDORSEMENTS**

APPROVED BY EAST FALLOWFIELD TOWNSHIP BOARD OF SUPERVISORS

\_\_\_\_\_ DATE \_\_\_\_\_

\_\_\_\_\_ DATE \_\_\_\_\_

\_\_\_\_\_ DATE \_\_\_\_\_

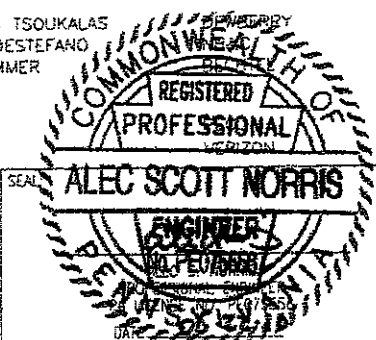
\_\_\_\_\_ DATE \_\_\_\_\_

**VERIZON WIRELESS CONTACT INFORMATION**

NAME	COMPANY	PHONE NO.
A&E	PETROS TSOUKALAS	DEWBERRY 856-802-0843
SAC	JIM RODGERS	WIRELESS ACCESS TECHNOLOGIES INC 610-842-1616
CONST.	MARK LYNCH	VERIZON WIRELESS 610-508-6108

**AT&T CONTACT INFORMATION**

NAME	COMPANY	PHONE NO.
A&E	PETROS TSOUKALAS	DEWBERRY 856-802-0843
SAC	GREG DESTEFANO	610-450-4201
CONST.	JIM WIMMER	610-230-0728
UTILITIES		
POWER:		215-841-3000
TELCO:		1-800-VERIZON



**BECHTEL CORPORATION**  
200 NORTH WARNER ROAD  
SUITE 150  
KING OF PRUSSIA, PA 19406  
PHONE: (610) 350-7704

**Dewberry**  
Dewberry-Goodkind, Inc.  
INDUSTRIAL BUSINESS CENTER  
133 CAMDEN DRIVE, SUITE 2  
AT LAUREL, NEW JERSEY 07034  
PHONE: 908-224-0000  
FAX: 908-224-0000

JOB # 50020836

AT&T SITE NUMBER: FA10134348  
AT&T SITE NAME: DOE RUN  
VERIZON WIRELESS SITE NAME:  
**PHI-KINGS RANCH**  
775 FAIRVIEW ROAD  
COATESVILLE, PA 19320

**at&t**

AT&T MOBILITY 200 NORTH  
WARNER ROAD KING OF  
PRUSSIA, PA 19406  
NEW CINGULAR WIRELESS PCS, LLC  
d/b/a AT&T MOBILITY

CELLCO PARTNERSHIP d/b/a

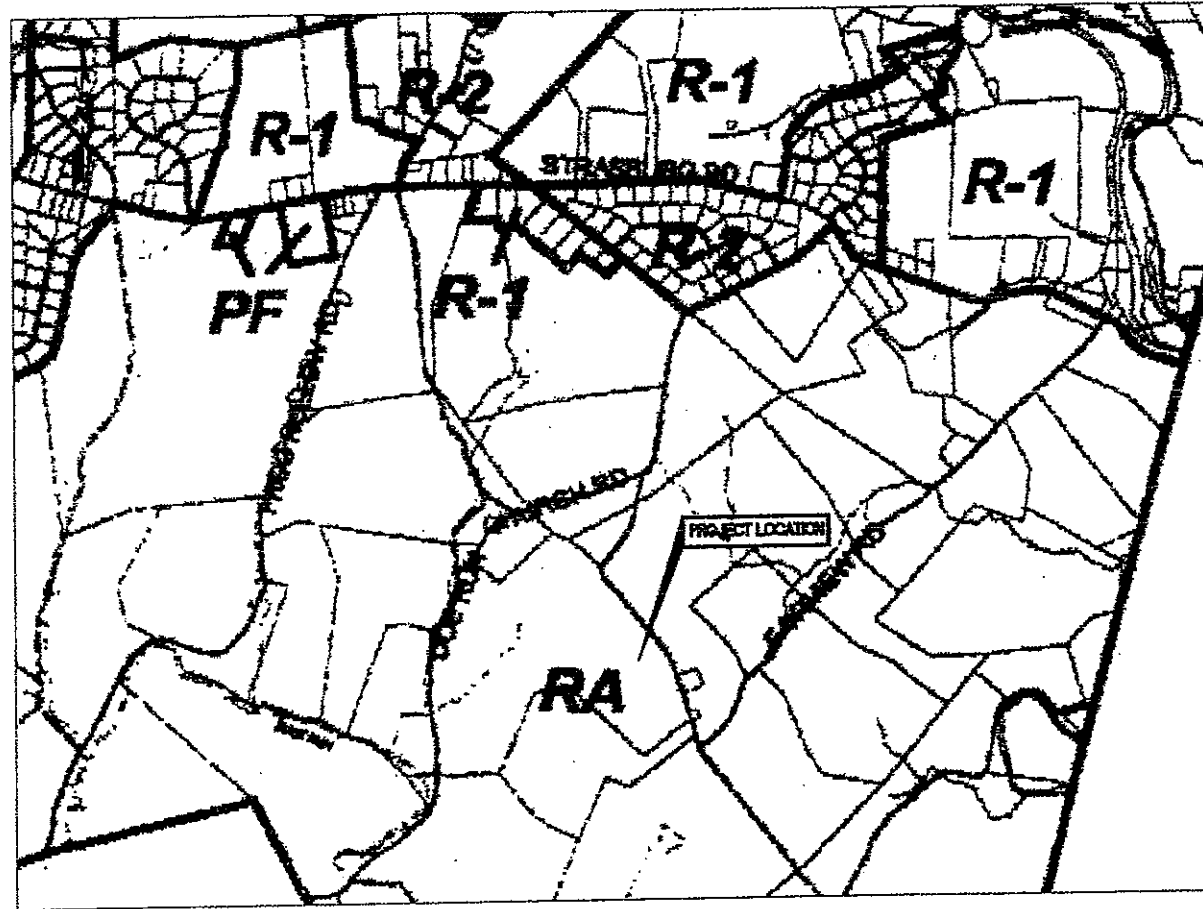
**verizon wireless**

5175 CAMPUS DRIVE  
PLYMOUTH MEETING, PA 19462

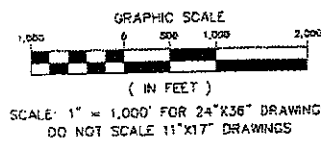
NO.	DATE	REVISIONS	BY	CHK	APP'D
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1	03/12/10	ISSUED FOR ZONING	JBH	CJZ	PET
0	01/20/10	ISSUED FOR ZONING	MPC	CJZ	PET

SCALE: AS SHOWN DESIGNED BY: MPC DRAWN BY: MPC

JOB NUMBER	DRAWING NUMBER	REV
24782-419	T-1	2

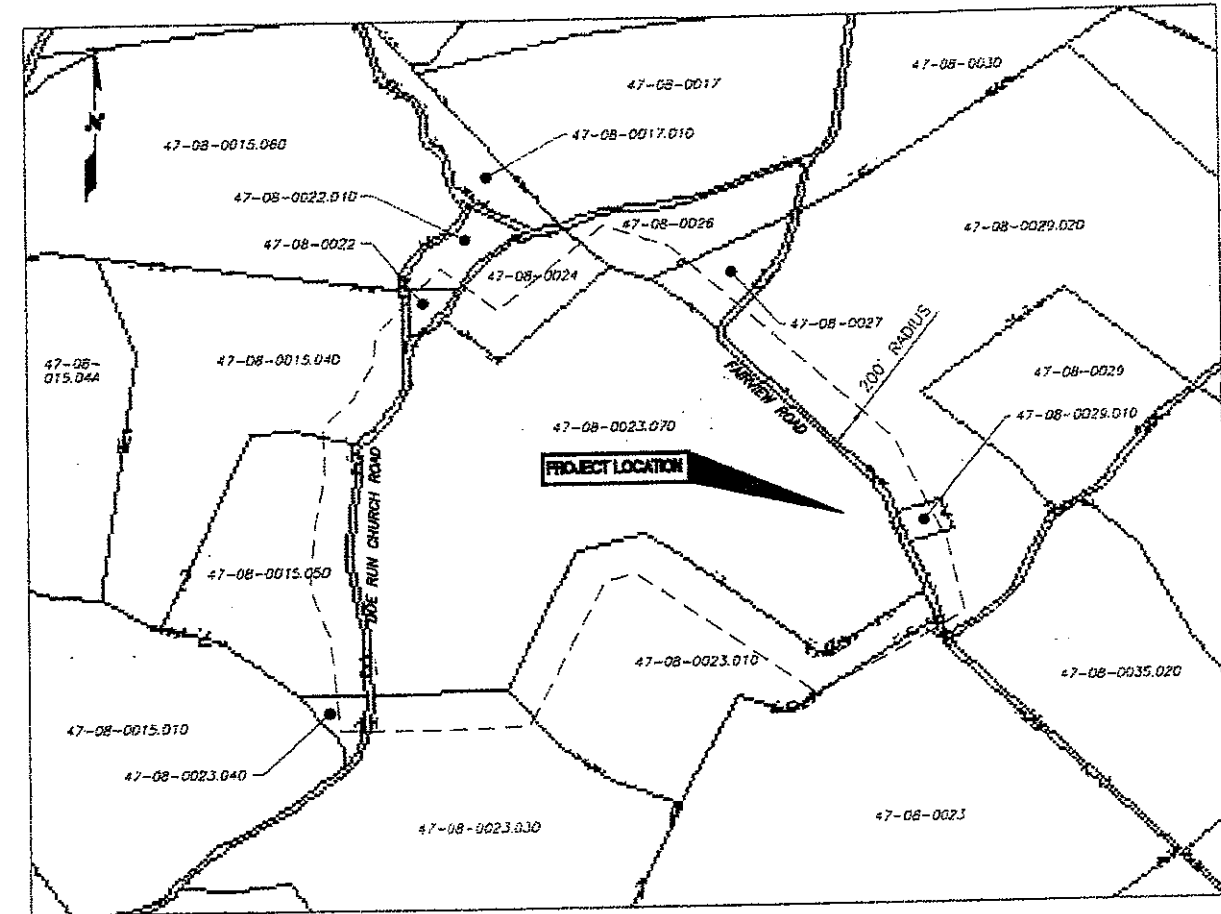


**ZONING MAP**

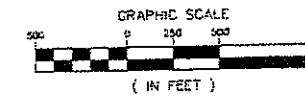


**LEGEND:**

- RA RURAL AGRICULTURAL DISTRICT
- PF PUBLIC FACILITIES DISTRICT
- R-1 LOW DENSITY RESIDENTIAL DISTRICT
- R-2 MEDIUM DENSITY RESIDENTIAL DISTRICT



**TAX MAP**



SCALE 1" = 500' FOR 24"x36" DRAWINGS  
DO NOT SCALE 11"x17" DRAWINGS



**BECHTEL CORPORATION**  
200 NORTH WARNER ROAD  
SUITE 160  
KING OF PRUSSIA, PA 19406  
PHONE: (610) 350-7704

**Dewberry**  
Dewberry-Goodkind, Inc.  
EASTGATE BUSINESS CENTER  
120 EASTGATE DRIVE, SUITE F  
MT. LAUREL, NEW JERSEY 08054  
PHONE: 908.822.0845  
FAX: 908.822.0846  
JOB # 50020836

AT&T SITE NUMBER: FA10134348  
AT&T SITE NAME: DOE RUN  
VERIZON WIRELESS SITE NAME:  
PHI-KINGS RANCH  
775 FAIRVIEW ROAD  
COATESVILLE, PA 19320

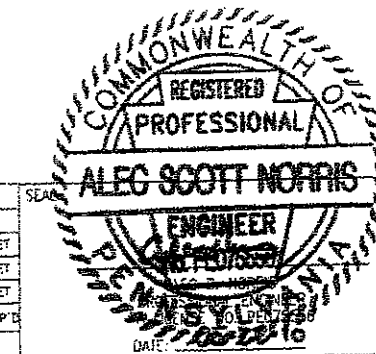


AT&T MOBILITY 500 NORTH  
WARNER ROAD KING OF  
PRUSSIA, PA 19406  
NEW CINGULAR WIRELESS PCS, LLC  
d/b/a AT&T MOBILITY

CELCO PARTNERSHIP d/b/a  
**verizonwireless**  
5175 CAMPUS DRIVE  
PLYMOUTH MEETING, PA 19462

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	05/22/10	ISSUED FOR ZONING	MPC	CJZ	PET
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0	01/20/10	ISSUED FOR ZONING	MPC	CJZ	PET

SCALE: AS SHOWN    DESIGNED BY: MPC    DRAWN BY: MPC



NEW CINGULAR WIRELESS PCS, LLC d/b/a AT&T MOBILITY AND CELCO PARTNERSHIP d/b/a VERIZON WIRELESS

ZONING INFORMATION		
JOB NUMBER	DRAWING NUMBER	REV.
24782-419	Z-1	2

**LEGEND**

- PROPERTY LINE
- - - ADJACENT PROPERTY LINE
- PROPOSED FENCE
- UNDERGROUND UTILITY LINE
- SETBACK LINE
- EASEMENT LINE
- HEAVY LINEWEIGHT INDICATES PROPOSED FACILITIES
- LIGHT LINEWEIGHT INDICATES EXISTING FACILITIES
- PROPOSED LEASE AREA
- 485 MAJOR CONTOUR LINE
- 483 MINOR CONTOUR LINE
- 482 PROPOSED CONTOUR LINE
- LIMIT OF DISTURBANCE LINE
- PROPOSED SILT FENCE
- PROPOSED CONSTRUCTION ENTRANCE

**GENERAL NOTES**

1. SITE AND BOUNDARY INFORMATION OBTAINED FROM THE FOLLOWING:
  - A. EXISTING PLAN ENTITLED "PARTIAL TOPOGRAPHIC SKETCH", PREPARED FOR AT&T MOBILITY, PREPARED BY DEWBERRY-GOODKIND, INC., OF MOUNT LAUREL, NJ DATED 07/01/09.
  - B. LIMITED FIELD OBSERVATIONS PERFORMED BY DEWBERRY-GOODKIND, INC ON 05/20/09
2. THIS PROPOSAL IS FOR AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF THE LOCATION OF TWELVE (12) PANEL ANTENNAS ON A NEW 140' SELF SUPPORT TOWER, AND THE PLACEMENT OF ASSOCIATED APPURTENANCES WITHIN AN AT&T 12'X20' AND VERIZON 12'X20' EQUIPMENT SHELTERS WITHIN A PROPOSED FENCED COMPOUND.
3. THE PROPOSED FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITATION. (NO HANDICAP ACCESS IS REQUIRED)
4. NO NOISE, SMOKE, DUST, VAPORS OR ODOR WILL RESULT FROM THIS PROPOSAL.
5. EXTERIOR SIGNS ARE NOT PROPOSED EXCEPT AS REQUIRED BY THE FCC
6. TOTAL AREA OF DISTURBANCE UNDER THIS PROPOSAL ±2,375 S.F.
7. THE PROPOSED FACILITY WILL CAUSE ONLY AN INSIGNIFICANT ("DE MINIMIS") INCREASE IN STORMWATER RUNOFFS, THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
8. ALL CONSTRUCTION FOR SITE IMPROVEMENTS SHALL CONFORM TO APPLICABLE SPECIFICATIONS, STANDARDS, AND REQUIREMENTS OF THE GOVERNMENTAL OR UTILITY AUTHORITIES HAVING JURISDICTION.
9. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
10. CONTRACTOR SHALL CONTACT THE PENNSYLVANIA ONE CALL SYSTEM PRIOR TO CONSTRUCTION @ 1-800-242-1775.
11. ALL CONSTRUCTION AND DESIGN FOR THE PROPOSED ANTENNA MOUNTS SHALL CONFORM IN ACCORDANCE WITH THE CURRENT STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES (TIA/EIA-222-G) REVISED, JANUARY 2006.
12. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
13. SUBCONTRACTOR TO VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
14. SUBCONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
15. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS & INSPECTIONS REQUIRED FOR CONSTRUCTION.
16. SUBCONTRACTOR SHALL DETERMINE EXACT ROUTE OF ANY UNDERGROUND CONDUIT, IF REQUIRED.
17. DRIVEWAY PERMIT IS NOT REQUIRED.
18. THIS PROJECT WILL NOT REQUIRE STREETS OR PROPERTY TO BE DEDICATED FOR PUBLIC USE.
19. THIS PROJECT WILL NOT REQUIRE PERMANENT MONUMENTS.
20. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP OF CHESTER COUNTY, PA (ALL JURISDICTIONS) MAP 42028C0245F, DATED 08/28/2006, ALL PROPOSED IMPROVEMENTS ARE LOCATED WITHIN ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
21. NO WETLANDS INVESTIGATION WAS PERFORMED BY DEWBERRY-GOODKIND, INC.

**SYMBOLS AND MATERIALS**

- DETAIL REFERENCE
- SECTIONS & DETAILS
- CONCRETE
- EARTH
- GRAVEL
- SAND

**SITE CHARACTERISTICS**

GROUND ELEV. (AMSL): ± 483.90' AMSL  
 STRUCTURE TYPE: SELF-SUPPORT TOWER  
 LOCATION OF RADIO EQUIPMENT: GROUND  
 STRUCTURE HEIGHT (AGL): ±140'  
 ANTENNA HEIGHT (AGL): ±138'

**MAINTENANCE PLAN:**

1. A TECHNICIAN WILL VISIT THE SITE MONTHLY FOR INSPECTION OF THE SITE AND EVERGREEN SCREENING. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY ANY DEAD TREES SHALL BE REMOVED AND REPLACED.
2. THE STRUCTURAL INTEGRITY OF THE SELF SUPPORT TOWER WILL BE INSPECTED ANNUALLY.

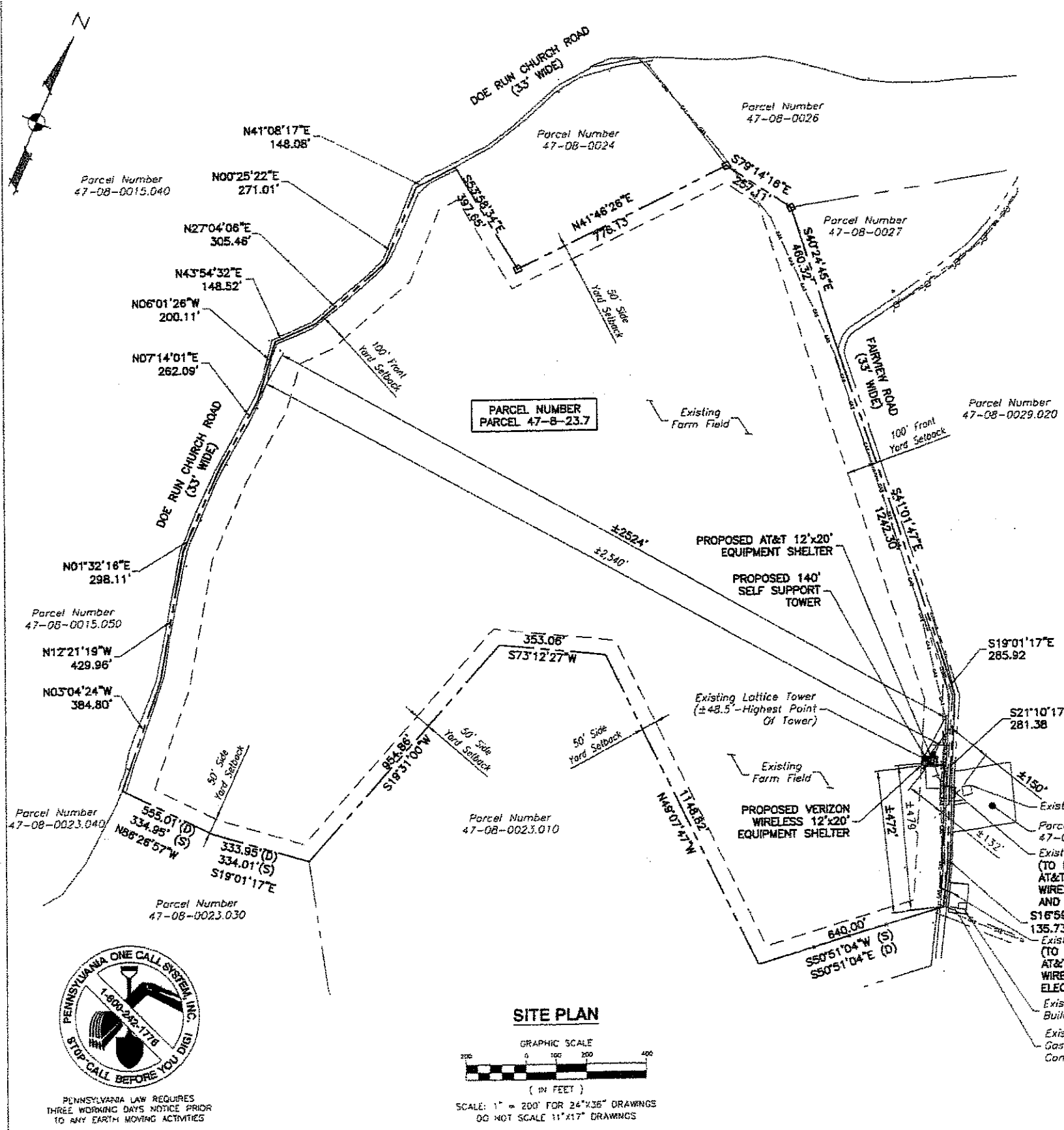
**BULK STANDARDS FOR RA - RURAL AGRICULTURAL DISTRICT**

DESCRIPTION	REQUIRED	EXISTING	PROPOSED	REMARKS
MINIMUM LOT AREA	20 ACRES	±100.58 ACRES	NO CHANGE	CONFORMING
MINIMUM LOT WIDTH AT STREET LINE	200 FEET	±993 FEET	NO CHANGE	CONFORMING
MINIMUM SETBACK FROM STREET RIGHT-OF-WAY	100 FEET	±56 FEET	±55 FEET	EXISTING NON-CONFORMING
MINIMUM REAR YARD	100 FEET	N/A	NO CHANGE	CONFORMING
MINIMUM SIDE YARD	50 FEET	±479 FEET	±472 FEET	CONFORMING
MAXIMUM BUILDING COVERAGE	8%	<8%	<6%	CONFORMING
MAXIMUM LOT COVERAGE	10%	<10%	<10%	CONFORMING
MAXIMUM BUILDING HEIGHT	35 FEET	<35 FEET	<35 FEET	CONFORMING

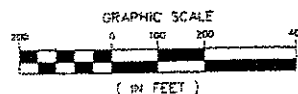
**BULK STANDARDS FOR WIRELESS TELECOMMUNICATION FACILITIES**

DESCRIPTION	REQUIRED	EXISTING	PROPOSED	REMARKS
MAXIMUM TOWER HEIGHT	150 FEET	N/A	140 FEET	CONFORMING
MAXIMUM DRIVING COVERAGE	800 S.F.	N/A	N/A	CONFORMING
MINIMUM DWELLING SETBACK	500 FEET	±132 FEET	±132 FEET	NON-CONFORMING
MAXIMUM EQUIPMENT BUILDING HEIGHT	8 FEET	<8 FEET	<8 FEET	CONFORMING
MINIMUM PROPERTY LINE SETBACK*	± 140 FEET	±86 FEET	±140 FEET	NON-CONFORMING

\* TOWER SETBACK = TOWER HEIGHT (140') x 1 = 140'



**SITE PLAN**



SCALE: 1" = 200' FOR 24"x36" DRAWINGS  
 00 NOT SCALE 11"x17" DRAWINGS



PENNSYLVANIA LAW REQUIRES THREE WORKING DAYS NOTICE PRIOR TO ANY EARTH MOVING ACTIVITIES

**BECHTEL CORPORATION**  
 200 NORTH WARNER ROAD  
 SUITE 160  
 KING OF PRUSSIA, PA 19406  
 PHONE: (610) 350-7704

**Dewberry**  
 Dewberry-Goodkind, Inc.  
 150 CAMDEN DRIVE, SUITE 1  
 MT. LAUREL, NEW JERSEY 08054  
 PHONE: 856-262-2800  
 FAX: 856-262-2848  
 JOB # 50020636

AT&T SITE NUMBER: FA10134348  
 AT&T SITE NAME: DOE RUN  
 VERIZON WIRELESS SITE NAME:  
 PHI-KINGS RANCH  
 775 FAIRVIEW ROAD  
 COATESVILLE, PA 19320

**at&t**  
 AT&T MOBILITY 200 NORTH  
 WARNER ROAD KING OF  
 PRUSSIA, PA 19406  
 NEW CINGULAR WIRELESS PCS, LLC  
 d/b/a AT&T MOBILITY

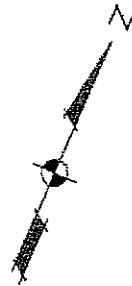
**verizon wireless**  
 CELCO PARTNERSHIP d/b/a  
 5175 CAMPUS DRIVE  
 PLYMOUTH MEETING, PA 19462

NO.	DATE	REVISIONS	BY	CHK	APP'D
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SCALE: AS SHOWN    DESIGNED BY: MPC    DRAWN BY: MPC

**ALEC SCOTT NORRIS**  
 REGISTERED PROFESSIONAL ENGINEER  
 PENNSYLVANIA  
 No. 000000000  
 DATE: 05-22-10

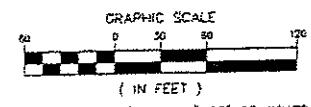
NEW CINGULAR WIRELESS PCS, LLC d/b/a AT&T MOBILITY AND CELCO PARTNERSHIP d/b/a VERIZON WIRELESS  
**SITE PLAN**  
 JOB NUMBER: 24782-419    DRAWING NUMBER: 2-2    REV: 2



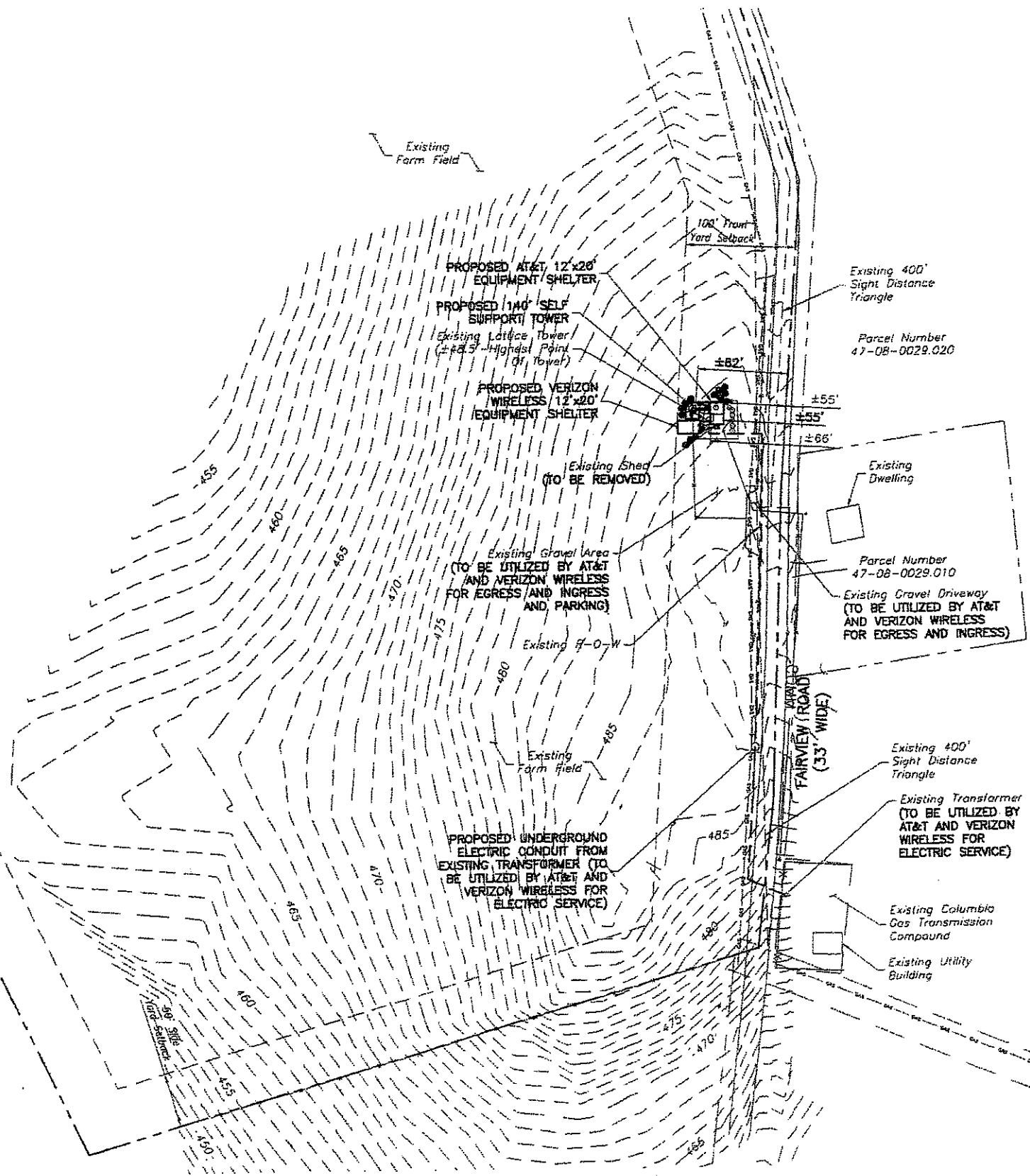
Parcel Number  
47-08-0023.010

50' Side  
Yard Setback

**PARTIAL SITE PLAN**



SCALE: 1" = 60' FOR 24"x36" DRAWINGS  
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**BECHTEL CORPORATION**  
200 NORTH WARNER ROAD  
SUITE 160  
KING OF PRUSSIA, PA 19406  
PHONE: (610) 350-7704

**Dewberry**  
Dewberry-Goodkind, Inc.  
EMPLOYEE BUSINESS CENTER  
120 BATHURST DRIVE, SUITE 17  
MT. LAUREL, NEW JERSEY 08054  
PHONE: 609.222.0840  
FAX: 609.222.0840

JOB # 50020836

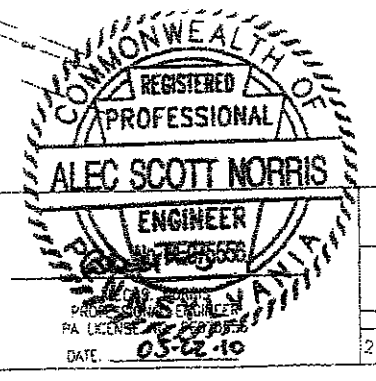
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VERIZON WIRELESS SITE NAME:  
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COATESVILLE, PA 19320

**at&t**  
AT&T MOBILITY 200 NORTH  
WARNER ROAD KING OF  
PRUSSIA, PA 19406  
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CELLCO PARTNERSHIP d/b/a  
**verizon wireless**  
5176 CAMPUS DRIVE  
PLYMOUTH MEETINGS, PA 19462

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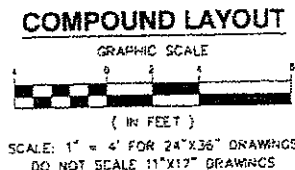
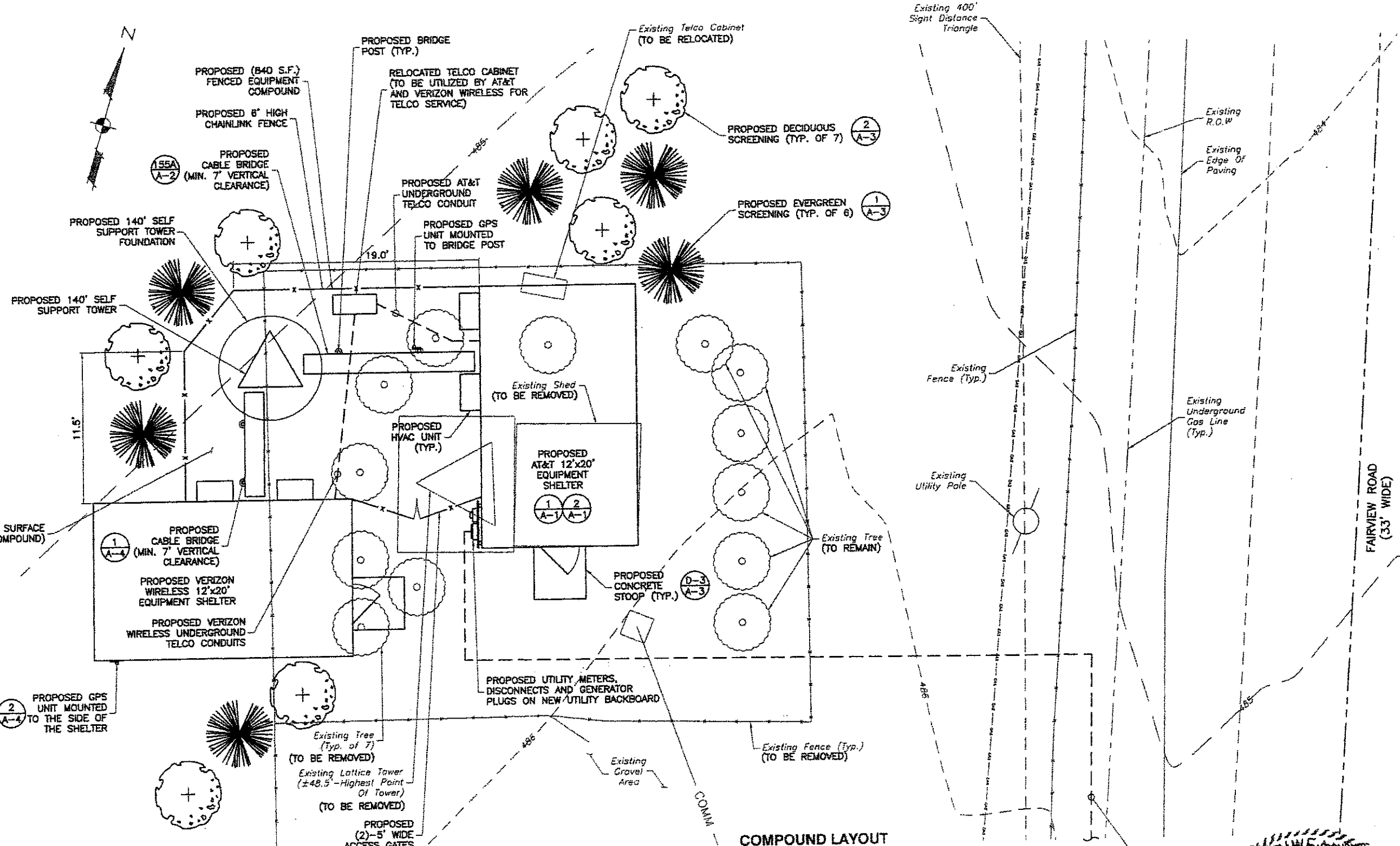
SCALE: AS SHOWN    DESIGNED BY: MPC    DRAWN BY: MPC



NEW CINGULAR WIRELESS PCS,  
LLC d/b/a AT&T MOBILITY AND  
CELLCO PARTNERSHIP d/b/a  
VERIZON WIRELESS

PARTIAL SITE PLAN

JOB NUMBER	DRAWING NUMBER	REV.
24782-419	Z-5	2



PROPOSED UNDERGROUND UTILITY CONDUITS FROM EXISTING TRANSFORMER TO BE UTILIZED BY AT&T AND VERIZON WIRELESS FOR ELECTRIC SERVICE. SEE SHEET 24782-419 FOR LOCATION OF EXISTING TRANSFORMER.



**BECHTEL CORPORATION**  
200 NORTH WARNER ROAD  
SUITE 160  
KING OF PRUSSIA, PA 19406  
PHONE: (610) 350-7704

**Dewberry**  
Dewberry-Goodkind, Inc.  
EASTVALE BUSINESS CENTER  
120 EASTVALE DRIVE, SUITE F  
MT. LAUREL, NEW JERSEY 08054  
PHONE: 800.445.0000  
FAX: 856.961.0000

AT&T SITE NUMBER: FA10134348  
AT&T SITE NAME: DOE RUN  
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**PHI-KINGS RANCH**  
775 FAIRVIEW ROAD  
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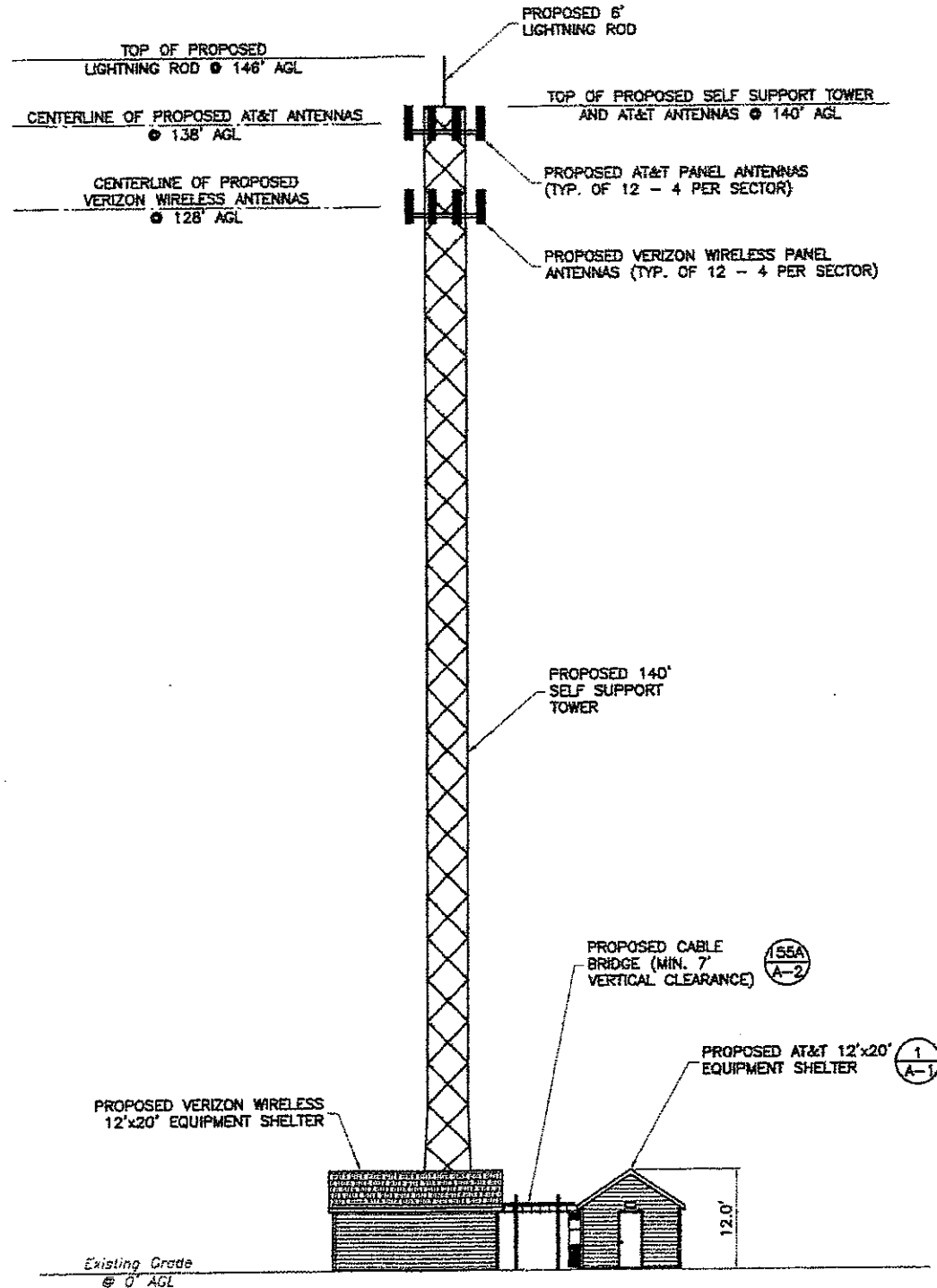
**at&t**  
AT&T MOBILITY 200 NORTH  
WARNER ROAD KING OF  
PRUSSIA, PA 19406  
NEW CINGULAR WIRELESS PCS, LLC  
©2010 AT&T MOBILITY

CELCO PARTNERSHIP 07/09  
**verizonwireless**  
5175 CAMPUS DRIVE  
PLYMOUTH MEETING, PA 19462

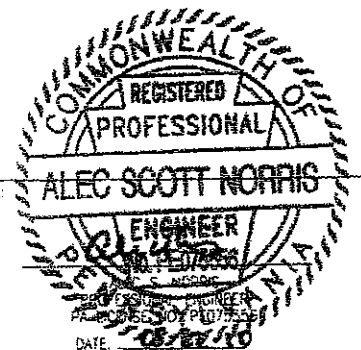
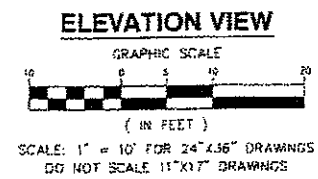
NO.	DATE	REVISIONS	BY	CHK	APP'D
2	05/27/10	ISSUED FOR ZONING	MPC	CJZ	PET
1	03/12/10	ISSUED FOR ZONING	JBM	CJZ	PET
0	01/26/10	ISSUED FOR ZONING	MPC	CJZ	PET

SCALE: AS SHOWN    DESIGNED BY: MPC    DRAWN BY: MPC

FOR NUMBER	DRAWING NUMBER	REV
24782-419	Z-4	2



**NOTE:**  
 THE DESIGN OF THE TOWER AND FOUNDATION IS TO BE PERFORMED BY OTHERS.



**BECHTEL CORPORATION**  
 200 NORTH WARNER ROAD  
 SUITE 160  
 KING OF PRUSSIA, PA 19406  
 PHONE: (610) 350-7704

**Dewberry**  
 Dewberry-Goodkind, Inc.  
 DISTRICT BUSINESS CENTER  
 120 LAUREL DRIVE, SUITE F  
 MT. LAUREL, NEW JERSEY 08054  
 PHONE: 908.983.8840  
 FAX: 908.983.8848  
 JOB # 50020836

**AT&T SITE NUMBER: FA10134348**  
**AT&T SITE NAME: DOE RUN**  
**VERIZON WIRELESS SITE NAME:**  
**PHI-KINGS RANCH**  
 775 FAIRVIEW ROAD  
 COATESVILLE, PA 19320

**at&t**  
 AT&T MOBILITY 200 NORTH  
 WARNER ROAD KING OF  
 PRUSSIA, PA 19406  
 NEW CINGULAR WIRELESS PCS, LLC  
 d/b/a AT&T MOBILITY

**verizon wireless**  
 5176 CAMPUS DRIVE  
 PLYMOUTH MEETING, PA 19462

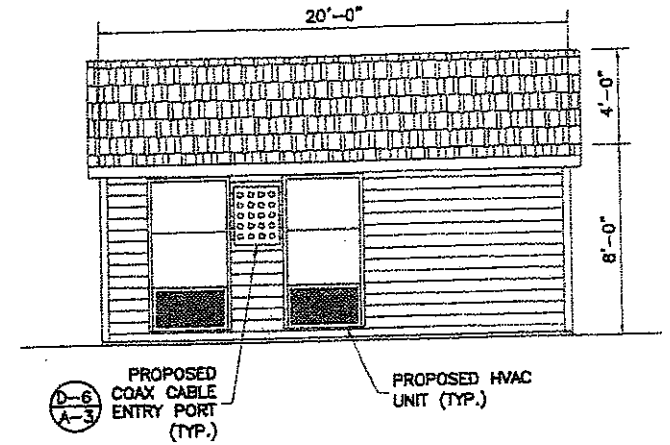
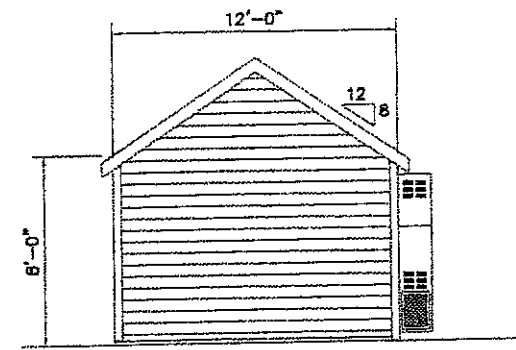
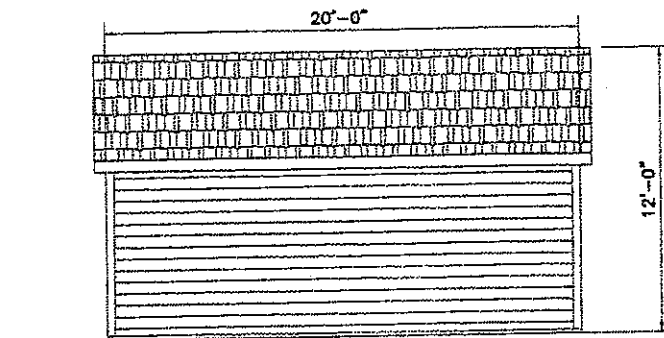
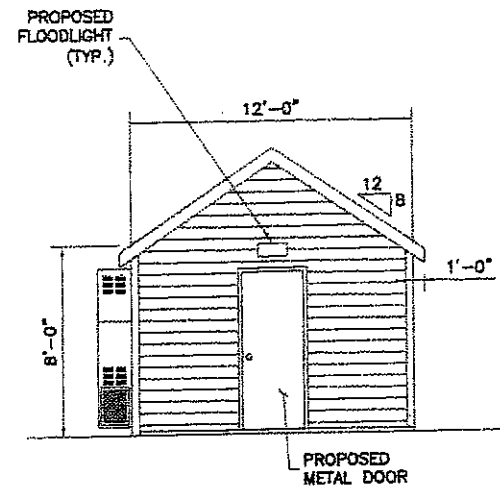
NO.	DATE	REVISIONS	BY	CHK	APP'D
2	05/22/10	ISSUED FOR ZONING	MPC	CJE	PET
1	03/12/10	ISSUED FOR ZONING	JBH	CJZ	PET
0	01/20/10	ISSUED FOR ZONING	MPC	CJZ	PET

SCALE: AS SHOWN    DESIGNED BY: MPC    DRAWN BY: MPC

SEAL: **ALEC SCOTT NORRIS**  
 REGISTERED PROFESSIONAL ENGINEER  
 COMMONWEALTH OF PENNSYLVANIA  
 LICENSE NO. 000170550  
 DATE: 05/22/10

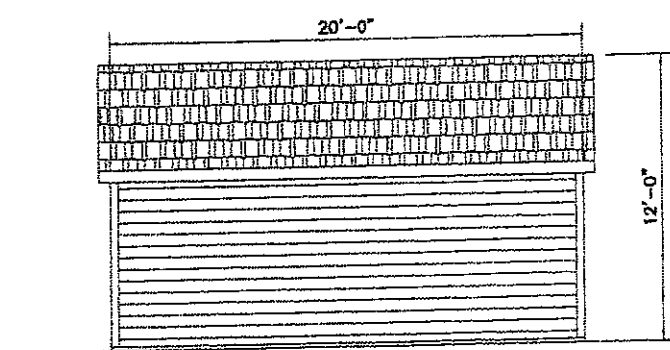
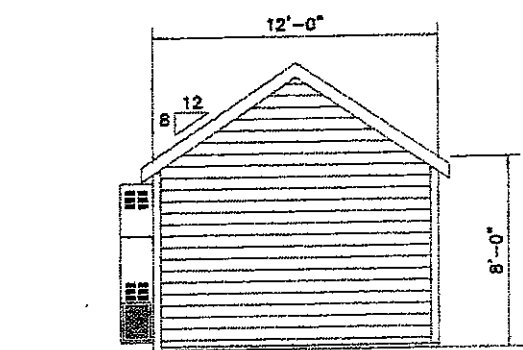
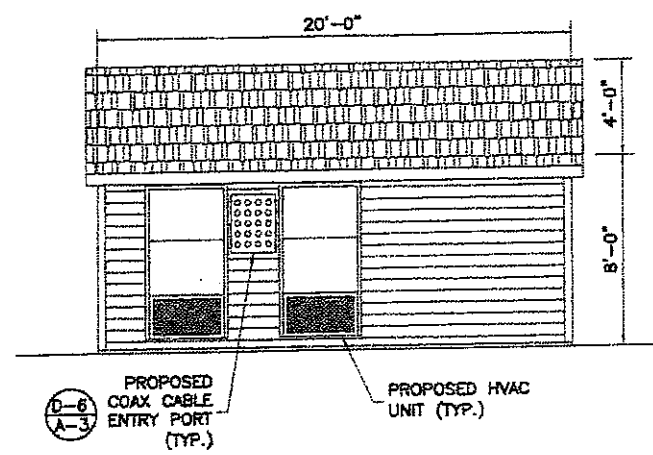
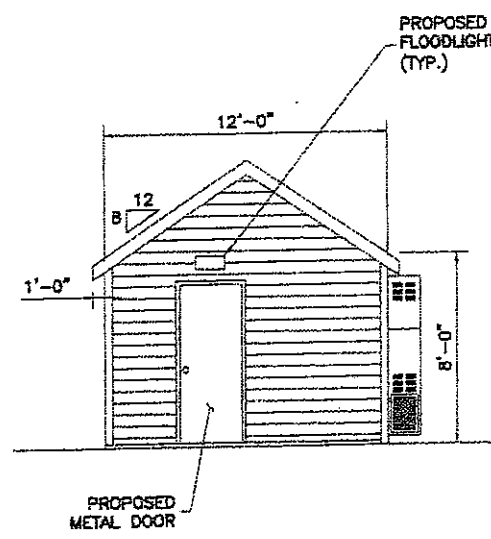
NEW CINGULAR WIRELESS PCS, LLC d/b/a AT&T MOBILITY AND CBLCCO PARTNERSHIP d/b/a VERIZON WIRELESS		
ELEVATION VIEW		
JOB NUMBER	DRAWING NUMBER	REV
24782-419	Z-5	2





AT&T EQUIPMENT SHELTER ELEVATIONS

DETAIL 1



VERIZON EQUIPMENT SHELTER ELEVATIONS

DETAIL 2



**BECHTEL CORPORATION**  
 200 NORTH WARNER ROAD  
 SUITE 160  
 KING OF PRUSSIA, PA 19406  
 PHONE: (610) 350-7704

**Dewberry**  
 Dewberry-Goodkind, Inc.  
 EASTGATE BUSINESS CENTER  
 150 GANTHER DRIVE, SUITE 7  
 MT. LAUREL, NEW JERSEY 08054  
 PHONE: 908.622.0343  
 FAX: 908.622.0345  
 JOB # 50020835

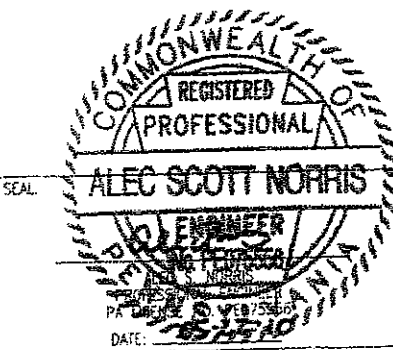
AT&T SITE NUMBER: FA10134348  
 AT&T SITE NAME: DOE RUN  
 VERIZON WIRELESS SITE NAME:  
 PHI-KINGS RANCH  
 775 FAIRVIEW ROAD  
 COATESVILLE, PA 19320

**at&t**  
 AT&T MOBILITY 200 NORTH  
 WARNER ROAD KING OF  
 PRUSSIA, PA 19406  
 NEW CINGULAR WIRELESS PCS, LLC  
 d/b/a AT&T MOBILITY

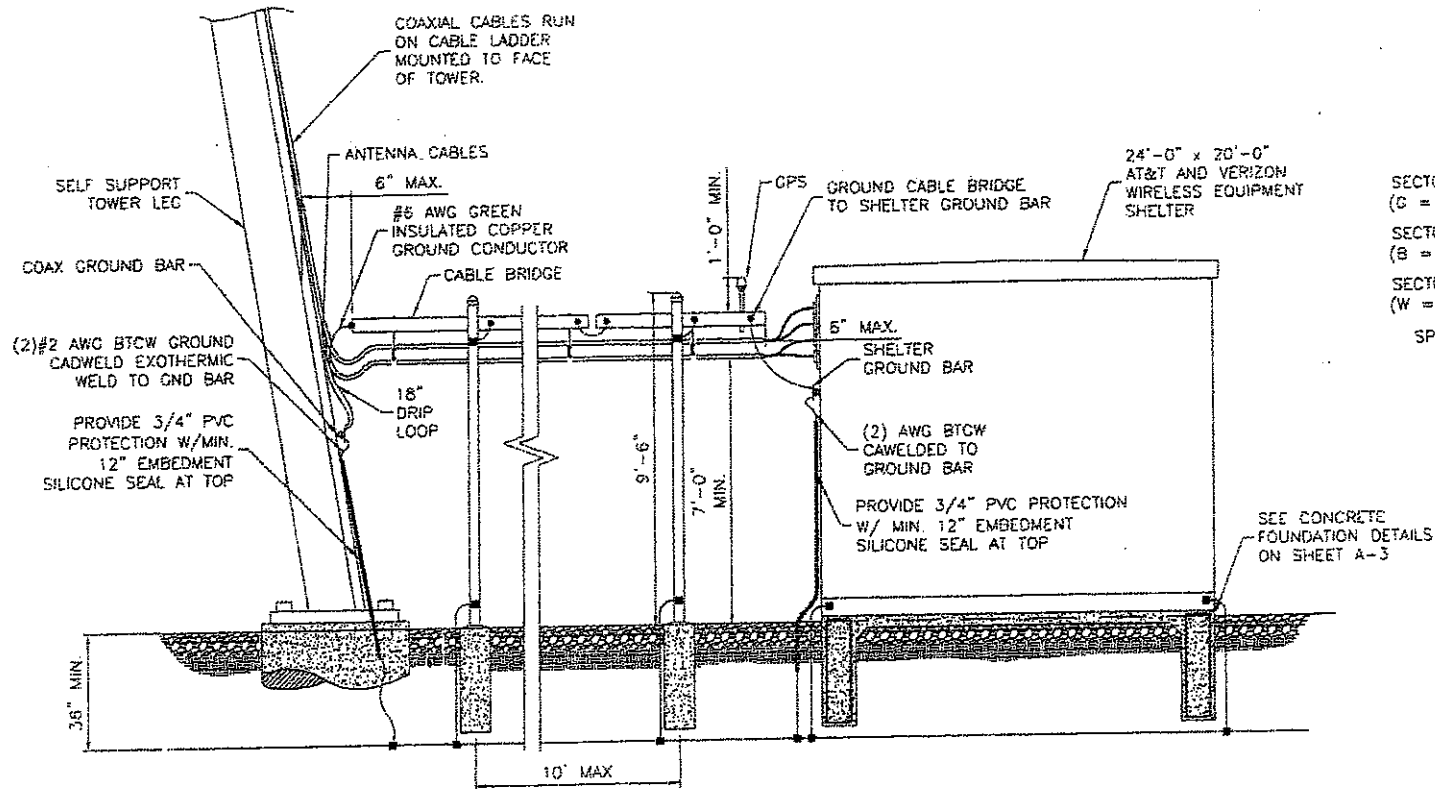
CELLCO PARTNERSHIP  
**verizon wireless**  
 5174 CAMPUS DRIVE  
 PLYMOUTH MEETING, PA 19462

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	05/22/10	ISSUED FOR ZONING	MPC	CJZ	PCT
1	03/12/10	ISSUED FOR ZONING	JBN	CJZ	PCT
0	01/20/10	ISSUED FOR ZONING	MPC	CJZ	PCT

SCALE: AS SHOWN  
 DESIGNED BY: MPC  
 DRAWN BY: MPC

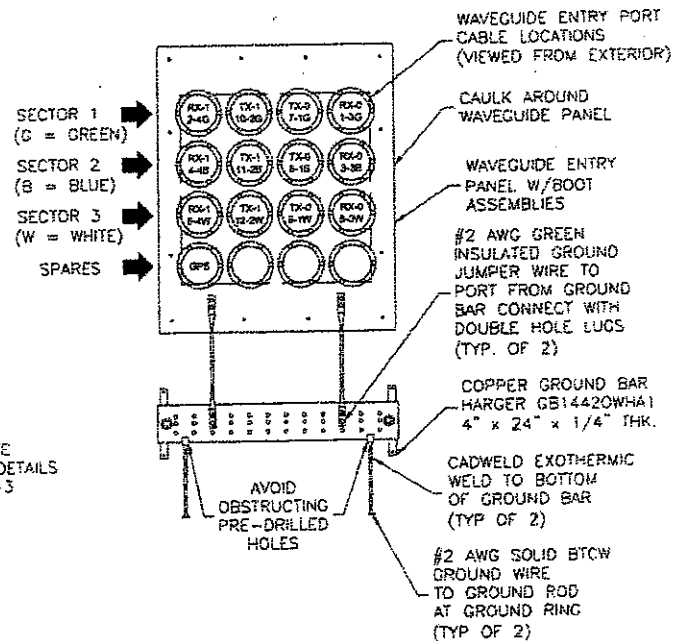


NEW CINGULAR WIRELESS PCS, LLC d/b/a AT&T MOBILITY AND CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS		
AT&T CONSTRUCTION DETAILS - 1		
JOB NUMBER	DRAWING NUMBER	REV
24782-419	A-1	2



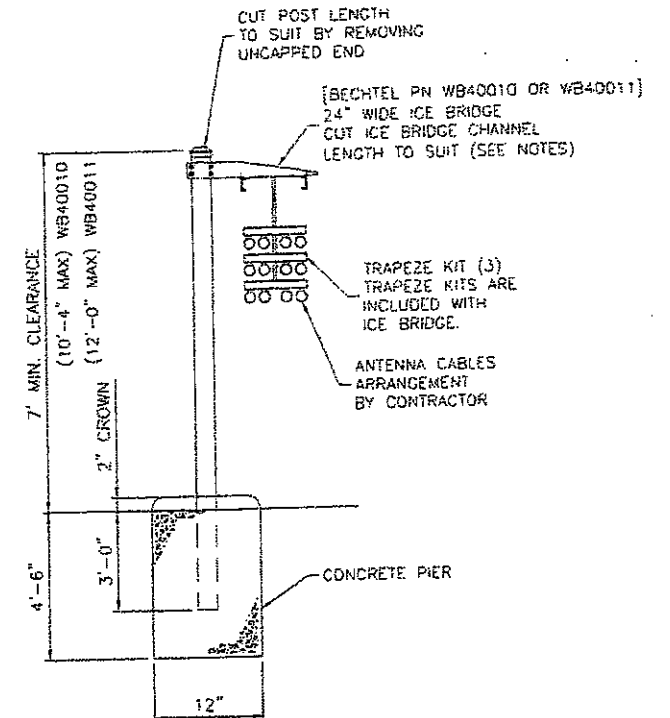
EQUIPMENT ELEVATION WITH GROUNDING

DETAIL D-5



COAX ENTRY PORT DETAIL

DETAIL D-6



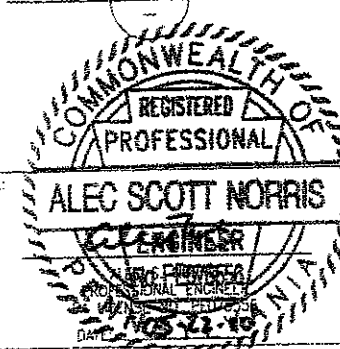
BECHTEL SC:	MTS PN:
WB40010	WBK210B
WB40011	MT-C6718

NOTES:

1. WHEN USING COMPONENTS AS SHOWN IN STANDARD DETAILS, MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON A CONTINUOUS SINGLE SECTION OF BRIDGE CHANNEL SHALL BE 9 FEET FOR 10 FEET BRIDGE CHANNEL.
2. WHEN USING COMPONENTS FOR SPlicing BRIDGE CHANNEL SECTIONS, THE SPLICE SHOULD BE PROVIDED AT THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
3. WHEN USING COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE ENDS OF ICE BRIDGES, WITH A MAXIMUM CANTILEVER DISTANCE OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
4. CUT BRIDGE CHANNEL SECTIONS SHALL HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THESE EDGES TO THE ORIGINAL CHANNEL, OR EQUIVALENT, FINISH.
5. ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM OTHER MANUFACTURERS, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
6. DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
7. DEVIATIONS FROM ICE BRIDGE FOUNDATIONS REQUIRE ENGINEERING APPROVAL.
8. THE DESIGN IS BASED ON ASCE 7-98, 3 SECOND GUST WIND SPEED OF 110 MPH, EXPOSURE C, ELEVATION AT GRADE.
9. THIS DESIGN IS BASED ON 24" WIDE ICE BRIDGE AND (12) 1 5/8" DIA COAX CABLES AND MAX. POST SUPPORT SPACING OF 10'-0".

24"X10" ICE BRIDGE WITH 2 BURIAL POSTS

DETAIL 155A



BECHTEL CORPORATION  
200 NORTH WARNER ROAD  
SUITE 160  
KING OF PRUSSIA, PA 19406  
PHONE (610) 350-7704

**Dewberry**  
Dewberry-Goodkind, Inc.  
EASTGATE BUSINESS CENTER  
120 GARTHER DRIVE, SUITE F  
MT. LAUREL, NEW JERSEY 08054  
PHONE: 908.302.0500  
FAX: 908.302.0500  
JOB # 50020836

AT&T SITE NUMBER: FA10134348  
AT&T SITE NAME: DOE RUN  
VERIZON WIRELESS SITE NAME:  
PHI-KINGS RANCH  
775 FAIRVIEW ROAD  
COATESVILLE, PA 19320

at&t  
AT&T MOBILITY 200 NORTH  
WARNER ROAD KING OF  
PRUSSIA, PA 19406  
NEW CINGULAR WIRELESS PCS, LLC  
d/b/a AT&T MOBILITY

CELLCO PARTNERSHIP  
d/b/a  
verizon wireless  
5175 CAMPUS DRIVE  
PLYMOUTH MEETING, PA 19482

NO.	DATE	REVISIONS	BY	CHK	APP'D
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1	03/12/10	ISSUED FOR ZONING	JBH	CJZ	PET
0	01/26/10	ISSUED FOR ZONING	MPC	CJZ	PET

SCALE: AS SHOWN  
DESIGNED BY: MPC  
DRAWN BY: MPC

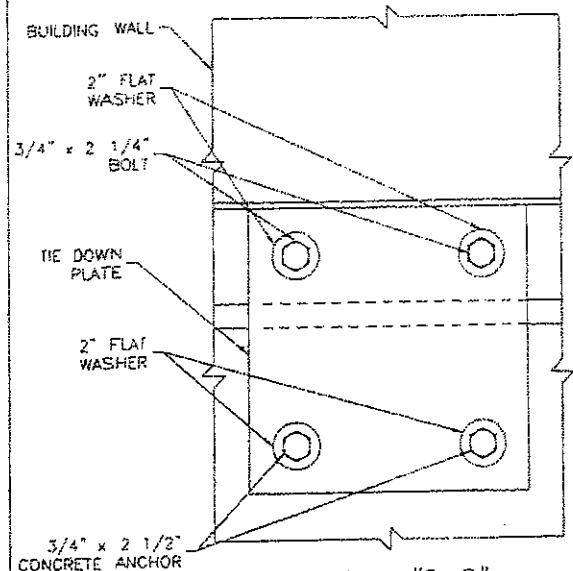
SEAL:

NEW CINGULAR WIRELESS PCS,  
LLC d/b/a AT&T MOBILITY AND  
CELLCO PARTNERSHIP d/b/a  
VERIZON WIRELESS

AT&T CONSTRUCTION  
DETAILS - 2

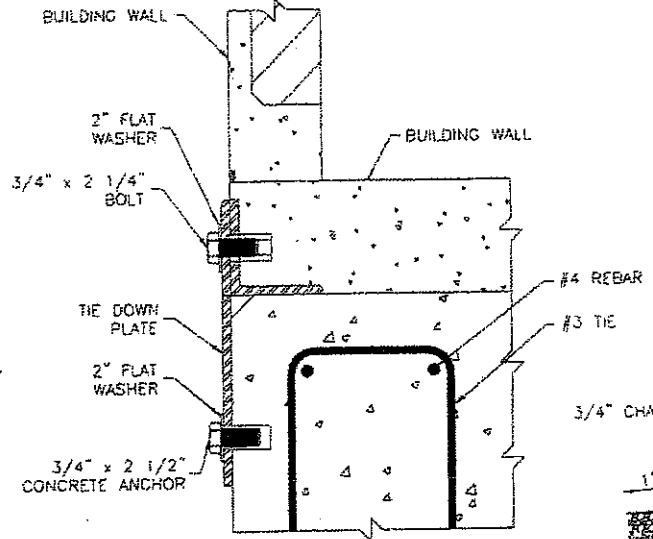
JOB NUMBER	DRAWING NUMBER	REV
24782-419	A-2	2





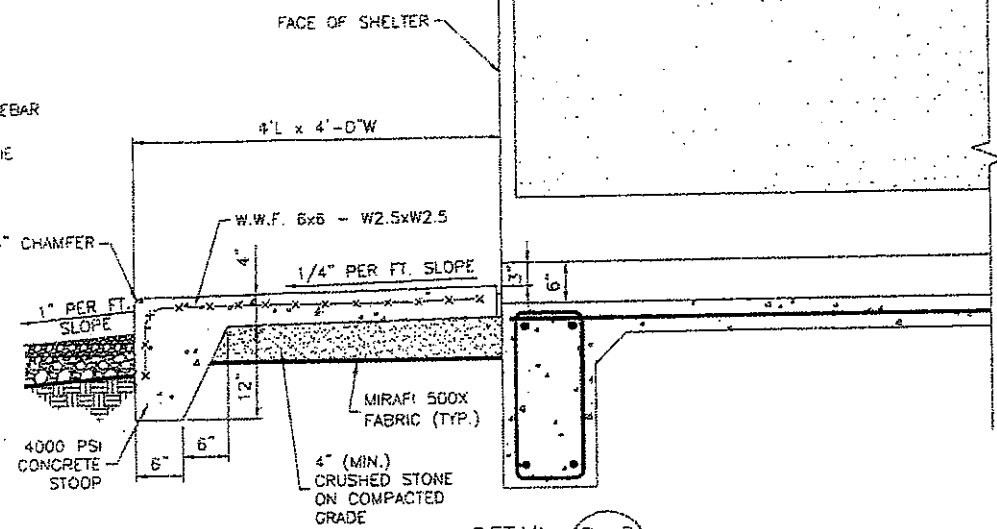
SECTION "B-B"  
NTS

(1) BECHTEL SC: AM1000x MONOPOLE TRI-MOUNT W/ 3 2.35"x72" MASTS  
(x DENOTES:  
'1' FOR 10"-30"  
'2' FOR 30"-60")

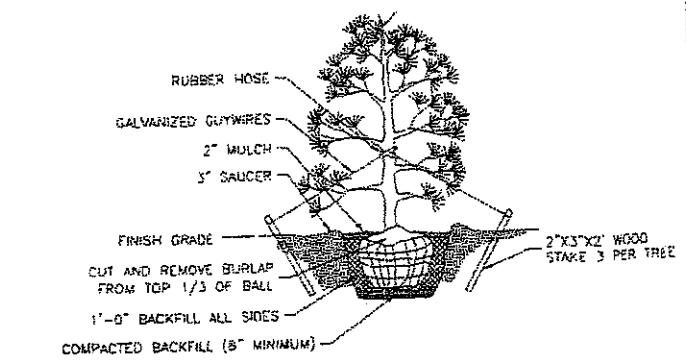


SECTION "C-C"  
NTS

DETAIL D-2



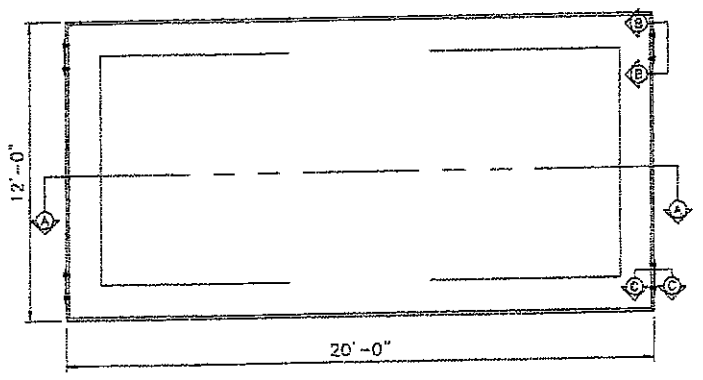
DETAIL D-3



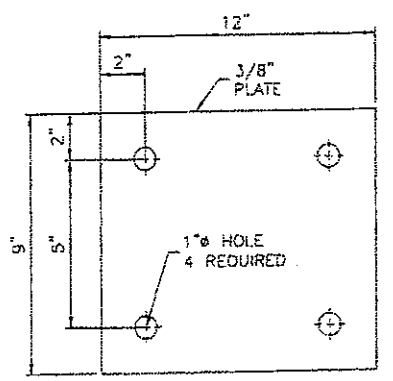
SCIENTIFIC NAME	COMMON NAME	PLANTING HEIGHT	SPACING	CALIPER	TYPE	TOTAL NUMBER
THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	5'	5' O.C.	N/A	S&B	6

EVERGREEN TREE PLANTING DETAIL

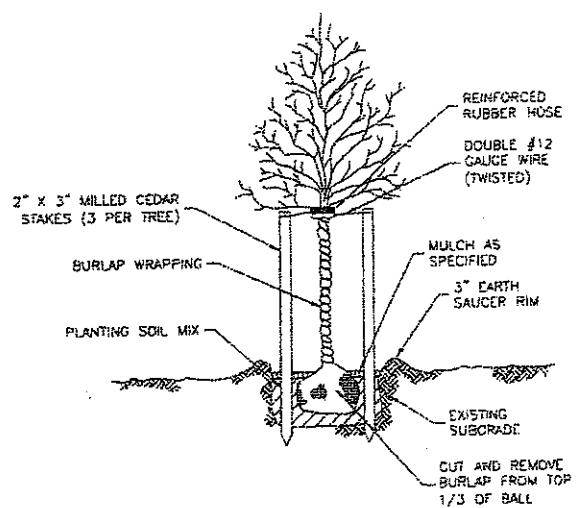
DETAIL 1



SLAB FOUNDATION  
NTS

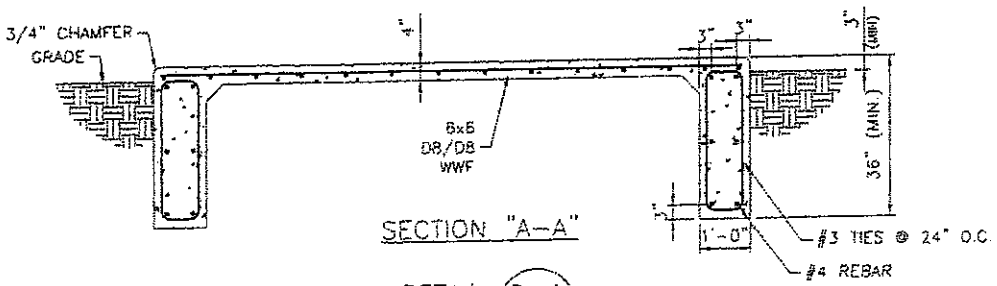


TIE DOWN PLATE  
NTS



DECIDUOUS TREE PLANTING DETAIL

DETAIL 2



SECTION "A-A"

DETAIL D-1



BECHTEL CORPORATION  
200 NORTH WARNER ROAD  
SUITE 160  
KING OF PRUSSIA, PA 19406  
PHONE: (610) 350-7704

**Dewberry**  
Dewberry-Goodkind, Inc.  
5400 GARDEN DRIVE, SUITE F  
MT. LAUREL, NEW JERSEY 08054  
PHONE: 953.822.0443  
FAX: 953.822.0545  
JOB # 50020836

AT&T SITE NUMBER: FA10134348  
AT&T SITE NAME: DOE RUN  
VERIZON WIRELESS SITE NAME:  
PHI-KINGS RANCH  
775 FAIRVIEW ROAD  
COATESVILLE, PA 19320

at&t  
AT&T MOBILITY 200 NORTH  
WARNER ROAD KING OF  
PRUSSIA, PA 19406  
NEW CINCULAR WIRELESS PCS, LLC  
DB/A AT&T MOBILITY

CELLCO PARTNERSHIP  
verizon wireless  
5176 CAMPUS DRIVE  
PLYMOUTH MEETING, PA 19402

NO.	DATE	REVISIONS	BY	CHK	APP'D
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0	01/20/10	ISSUED FOR ZONING	MPC	CJZ	PET

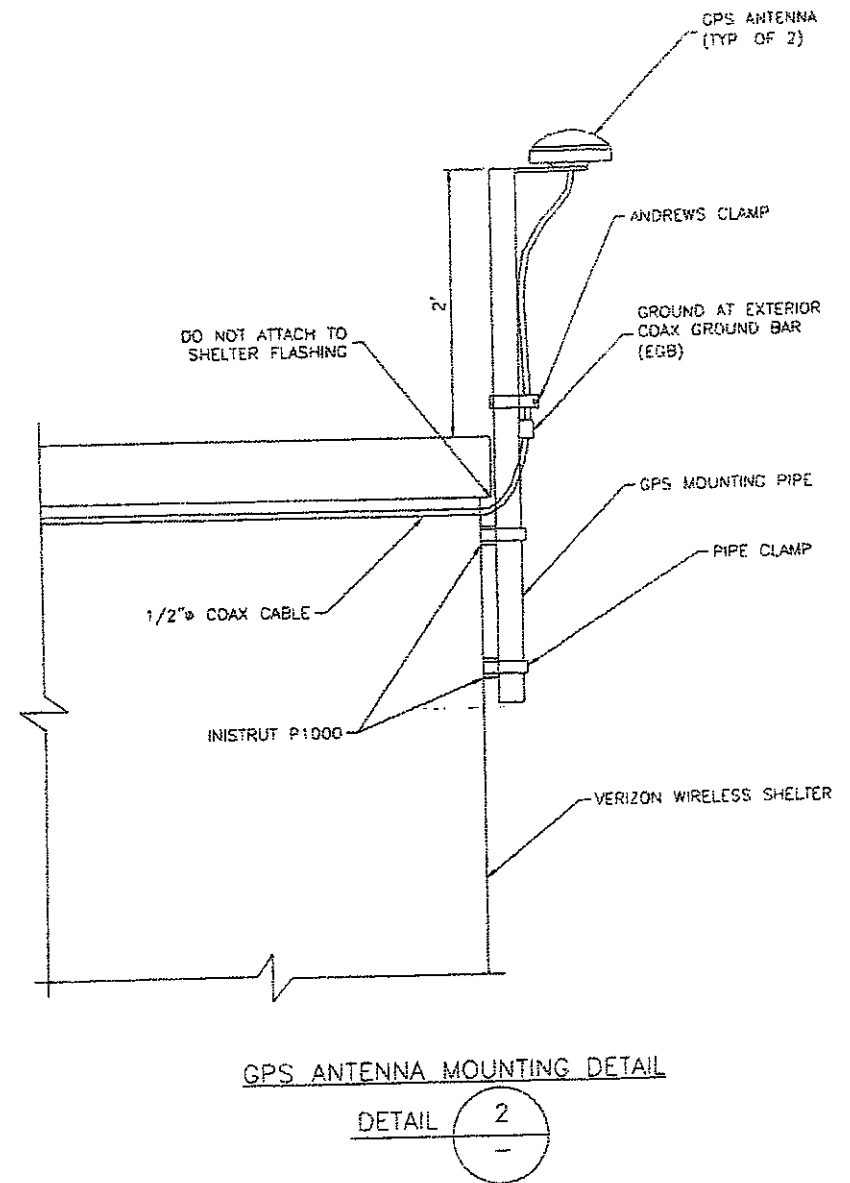
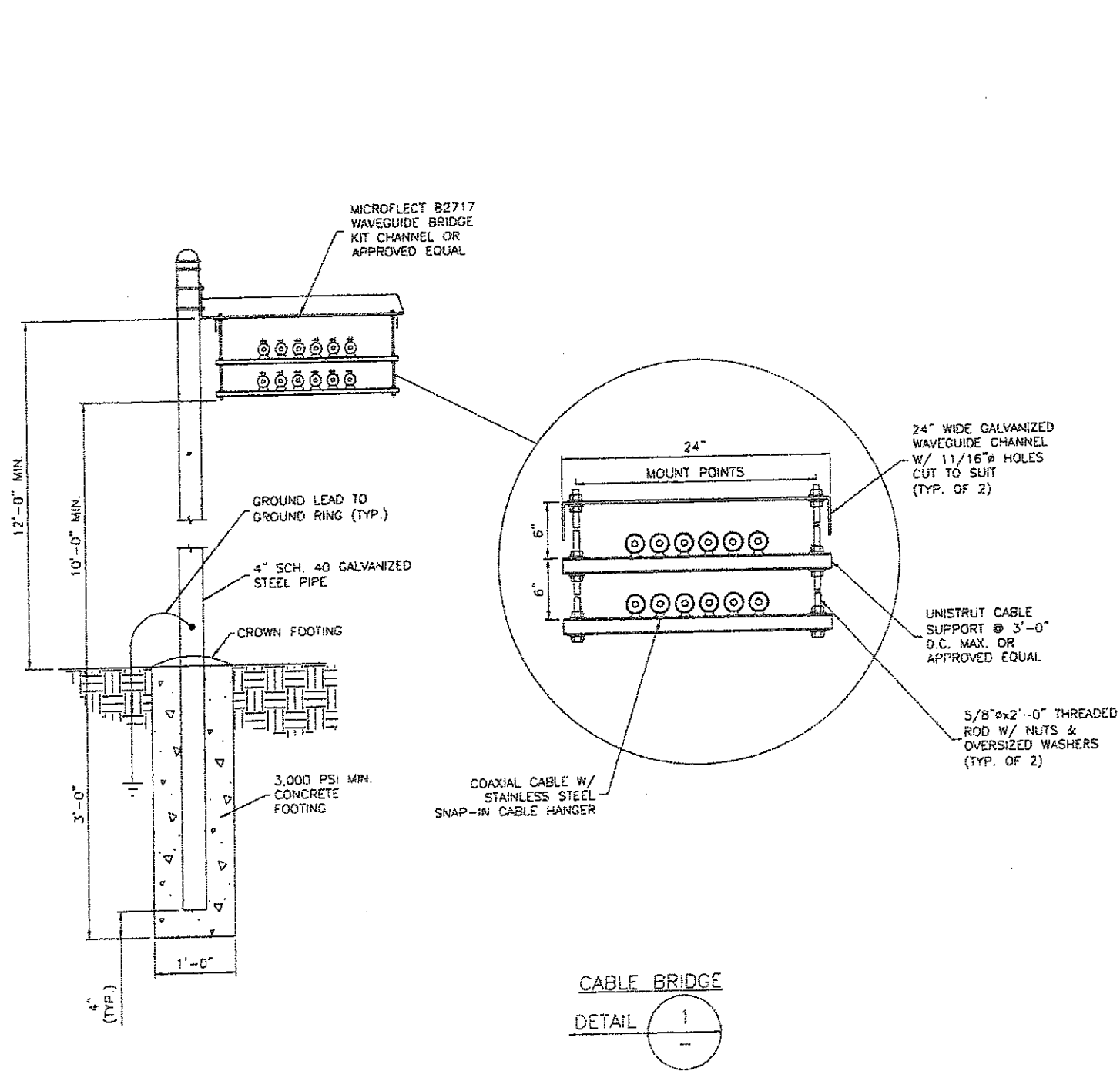
SCALE: AS SHOWN  
DESIGNED BY: MPC  
DRAWN BY: MPC

REGISTERED PROFESSIONAL  
ALEC SCOTT NORRIS  
ENGINEER  
DATE: 05-22-10

NEW CINCULAR WIRELESS PCS, LLC DB/A AT&T MOBILITY AND CELLCO PARTNERSHIP DB/A VERIZON WIRELESS

AT&T CONSTRUCTION DETAILS - 3

JOB NUMBER	DRAWING NUMBER	REV
24782-419	A-3	2



**BECHTEL CORPORATION**  
200 NORTH WARNER ROAD  
SUITE 160  
KING OF PRUSSIA, PA 19406  
PHONE: (610) 350-7704

**Dewberry**  
Dewberry-Goodkind, Inc.  
SABITATE BUSINESS CENTER  
130 SOUTHERN DRIVE, SUITE 7  
MT. LAUREL, NEW JERSEY 08054  
PHONE: 856.262.0949  
FAX: 856.262.0246  
JOB # 503208.55

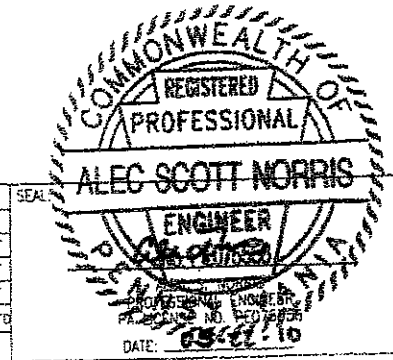
AT&T SITE NUMBER: FA10134348  
AT&T SITE NAME: DOE RUN  
VERIZON WIRELESS SITE NAME:  
**PHI-KINGS RANCH**  
775 FAIRVIEW ROAD  
COATESVILLE, PA 19320

**at&t**  
AT&T MOBILITY 200 NORTH  
WARNER ROAD KING OF  
PRUSSIA, PA 19406  
NEW CIRCULAR WIRELESS PCS, LLC  
d/b/a AT&T MOBILITY

CELLOG PARTNERSHIP  
**verizon wireless**  
6175 CAMPUS DRIVE  
PLYMOUTH MEETING, PA 19462

NO.	DATE	REVISIONS	BY	CHK	APP'D
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0	01/20/10	ISSUED FOR ZONING	MPC	CJZ	PET

SCALE: AS SHOWN | DESIGNED BY: MPC | DRAWN BY: MPC



NEW CIRCULAR WIRELESS PCS, LLC d/b/a AT&T MOBILITY AND CELLOG PARTNERSHIP d/b/a VERIZON WIRELESS		
VERIZON CONSTRUCTION DETAILS		
JOB NUMBER	DRAWING NUMBER	REV
24782-419	A-4	2