

NEW PAR d/b/a

verizonwireless

LAMB CORNERS CLMB-233 CELL SITE

6775 BOBCAT WAY
DUBLIN, OH 43016
FRANKLIN COUNTY

NEW PAR d/b/a
verizon

Mission 1 
Communications
6355 CONSTITUTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46804

APPLICANT
VERIZON WIRELESS
CHRIS DODD
7575 COMMERCE COURT
LEWIS CENTER, OH 43033
PHONE: (614) 560-8314
FAX: (614) 560-8398

SITE ACQUISITION
UNITED ACQUISITION SERVICES (UAS)
ROB FERGUSON
3960 BROWN PARK DRIVE
SUITE 1
HILLIARD, OH 43026
PHONE: (614) 850-8866

SURVEYOR
PRECISION SURVEYING SERVICES
JOHN EVERS
9055 SR-56 SE
MT. STERLING, OH 43143
PHONE: (740) 845-1412
FAX: (740) 845-1422

ARCHITECTURAL AND ENGINEERING
MISSION 1 COMMUNICATIONS
DONALD HOFFELMEYER
6355 CONSTITUTION DRIVE
FORT WAYNE, IN, 46804
PHONE: (260) 436-3922

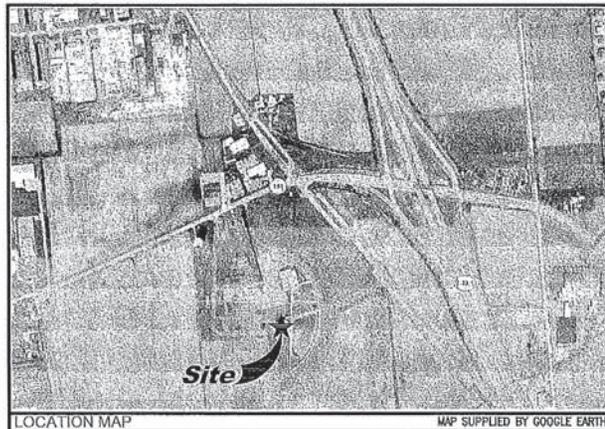
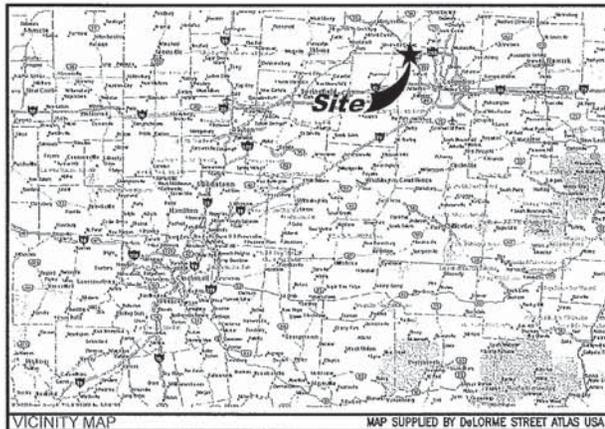
UTILITIES - ELECTRIC
AEP
JONATHAN BUTLER
ADDRESS:
DUBLIN, OH
PHONE: (614) 883-6830
EMAIL: JSUTLER@AEP.COM

UTILITIES - TELCO
ATA&T
CONTACT:
ADDRESS:
DUBLIN, OH
PHONE: (614) XXX-XXXX
FAX: (614) XXX-XXXX

POLICE DEPARTMENT
DUBLIN POLICE DEPARTMENT
6555 COMMERCE PARKY
DUBLIN, OH 43017
PHONE: (614) 889-1112

FIRE DEPARTMENT
WASHINGTON TWP FIRE DEPT.
6200 ETTERMAN ROAD
DUBLIN, OH 43016
PHONE: (614) 852-3920

LANDLORD
HERITAGE ACQUISITION SERVICES, INC
BRIAN THOMPSON
DR. CAMPUS ADMIN.
DEAN'S SUITE 350
PHONE: (614) 783-5558



CONSULTANT TEAM

THE PROJECT INCLUDES
INSTALLATION OF ANTENNA CONCEALMENT PANELS TO MATCH EXISTING
BUILDING ARCHITECTURE, PANEL ANTENNA AND ASSOCIATED COAX ON 5
STORY OFFICE BUILDING ROOF.
INSTALLATION OF AN 20'-0"x11'-7" UNMANNED EQUIPMENT SHELTER ON A
CONCRETE FOUNDATION.
NEW ELECTRICAL AND TELEPHONE SERVICE RUN TO THE EQUIPMENT SHELTER.
NO WATER SUPPLY OR SEWAGE TO/FROM THE SITE.

SITE LAT/LON, ELEV.
LATITUDE - N40° 06' 24.1"
LONGITUDE - W083° 11' 02.5"
ELEVATION - 939.5' AMSL

PROJECT SUMMARY
BEGINNING IN LEWIS CENTER, TAKE US-23 (OLD COLUMBUS PIKE) SOUTH TO
I-270 AND GO WEST ON I-270 4.5 MILES TO US-33 (EXIT 17). GO NORTH
ON US-33 ±2.3 MILES TO POST ROAD AND GO LEFT (WEST) ON POST ROAD.
GO ±0.25 MILE TO THE FIRST TRAFFIC SIGNAL, ETTERMAN ROAD AND TURN
LEFT (SOUTHWEST) ONTO ETTERMAN RD. GO ±0.25 MILE TO THE BUILDING
SITE ENTRANCE ON THE RIGHT (WEST) SIDE OF THE ROAD.

DIRECTIONS TO SITE

DRAWING INDEX

T-1	PROJECT INFORMATION, LOCATION MAPS, AND DRAWING INDEX	10/02/13
1 OF 2	SITE SURVEY	04/17/15
2 OF 2	SITE SURVEY	04/17/15
GN-0	GENERAL CONSTRUCTION NOTES	11/15/11
C-1	EROSION CONTROL PLAN, NOTES AND DETAILS	10/02/13
A-1	DEVELOPED SITE PLAN	10/02/13
A-2	ENLARGED SHELTER LOCATION PLAN	10/02/13
A-3	NORTH BUILDING ELEVATION	08/05/11
A-4	EAST BUILDING ELEVATION	08/05/11
A-5	SOUTH BUILDING ELEVATION	10/02/13
A-6	SITE CIVIL AND SHELTER DETAILS	10/02/13
A-7	ROOF ACCESS HATCH CURB DETAIL	10/02/13
S-1	ANTENNA SCREENING SUPPORT PLAN	10/02/13
S-2	ANTENNA SCREENING SUPPORT PENETRATION FLASHING DETAILS	10/02/13
B-1	EQUIPMENT SHELTER PLAN, SECTION AND SECTION	11/15/11
B-2	EQUIPMENT SHELTER ELEVATIONS	11/15/11
E-1	UTILITY SITE PLAN AND NOTES	10/02/13
E-2	ENLARGED UTILITY AND GROUNDING PLAN	10/02/13
E-3	ELECTRIC AND TELCO UTILITY DETAILS	08/05/11
E-4	GROUNDING SCHEMATICS AND DETAILS	10/02/13
E-5	GROUNDING DETAILS	10/02/13
SP-1	SPECIFICATIONS	11/15/11
SP-2	SPECIFICATIONS	11/15/11



RELEASE

DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	RELEASED PER ZONING COND.
10-02-13	RELEASED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JAM
CHECKED BY: DJM

**LAMB CORNERS
CLMB-233
CELL SITE**

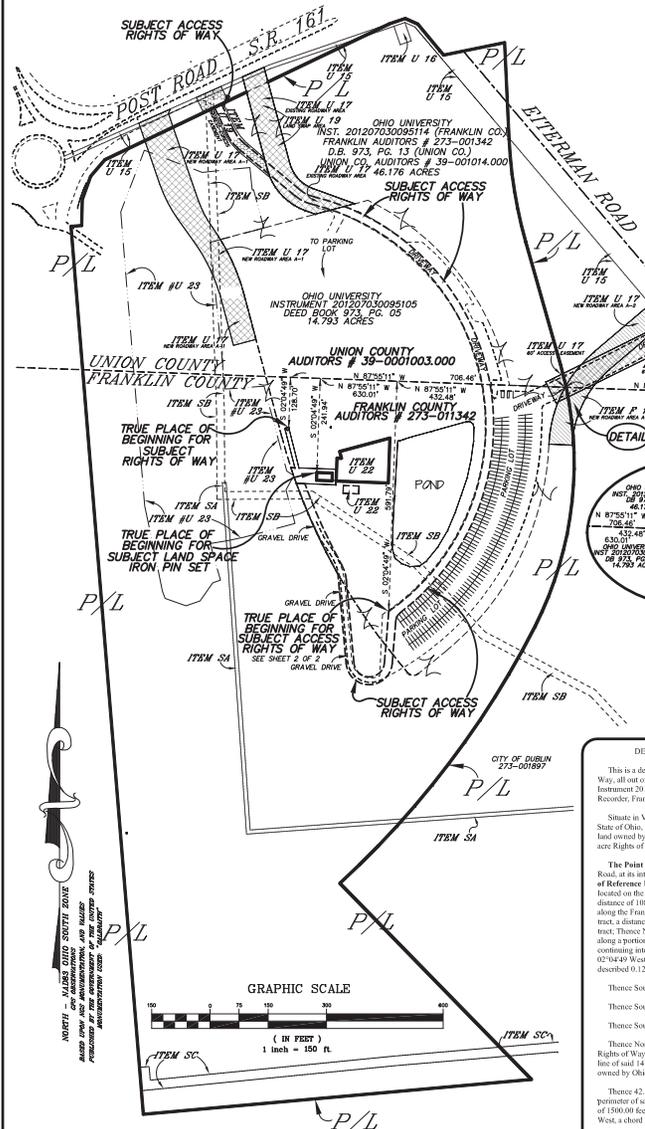
6775 BOBCAT WAY
DUBLIN, OH 43016

PROJECT INFORMATION,
LOCATION MAPS, AND
DRAWING INDEX

001-1042

T-1

For the purpose of this description, a bearing of North 87°55'11" West, was used along a portion of the Franklin and Union County lines, and as described in the description of that 14.793 acre tract of land owned by Ohio University, of record in Instrument 201207030095105, on file in the Office of the Recorder, Franklin County, Ohio. Said bearing found to be in accordance with the Ohio South State Plane Coordinate Zone.



DESCRIPTION OF 0.018 ACRE LAND SPACE

This is a description for New Par, dba Verizon Wireless, of a 0.018 acre Land Space, all out of that 14.793 acre tract of land owned by Ohio University, of record in Instrument 201207030095105, all references to records being on file in the Office of the Recorder, Franklin County, Ohio.

Situate in Virginia Military Survey No. 6748, City of Dublin, County of Franklin, State of Ohio, and being a 0.018 acre Land Space, all out of that 14.793 acre tract of land owned by Ohio University, of record in Instrument 201207030095105, said 0.018 acre Land Space being more particularly described as follows:

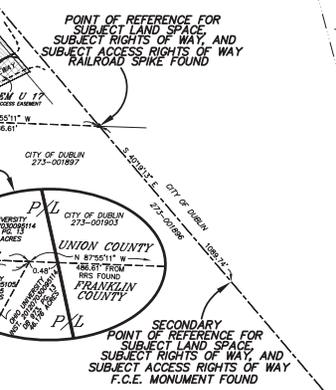
The Point of Reference being a railroad spike found in the centerline of Eterman Road, at its intersection with the Franklin and Union County line. The Secondary Point of Reference being a solid iron bar within a Franklin County Engineers monument box located on the centerline of said Eterman Road which bears South 40°19'13" East, at a distance of 1089.74 feet. Thence from said Point of Reference North 87°55'11" West, along the Franklin and Union County line, passing across a portion of said 46.176 acre tract, a distance of 40.1 feet to a point at the most easterly corner of said 14.793 acre tract. Thence North 87°55'11" West, along the Franklin and Union County line, and along a portion of the perimeter of said 14.793 acre tract and 46.176 acre tract, and continuing into said 14.793 acre tract, a distance of 30.01 feet to a point. Thence South 02°04'49" West, a distance of 241.94 feet to an iron pin at and being the True Place of Beginning of the herein-described 0.018 acre Land Space.

Thence South 87°55'11" East, a distance of 40.00 feet to an iron pin set.

Thence South 02°04'49" West, a distance of 20.00 feet to an iron pin set.

Thence North 87°55'11" West, a distance of 40.00 feet to an iron pin set.

Thence North 02°04'49" East, a distance of 20.00 feet to the True Place of Beginning, containing 0.018 acre (809 square feet).



DESCRIPTION OF 0.125 ACRE RIGHTS OF WAY

This is a description for New Par, dba Verizon Wireless, of a 0.125 acre Rights of Way, all out of that 14.793 acre tract of land owned by Ohio University, of record in Instrument 201207030095105, all references to records being on file in the Office of the Recorder, Franklin County, Ohio.

Situate in Virginia Military Survey No. 6748, City of Dublin, County of Franklin, State of Ohio, and being a 0.125 acre Rights of Way, all out of that 14.793 acre tract of land owned by Ohio University, of record in Instrument 201207030095105, said 0.125 acre Rights of Way being more particularly described as follows:

The Point of Reference being a railroad spike found in the centerline of Eterman Road, at its intersection with the Franklin and Union County line. The Secondary Point of Reference being a solid iron bar within a Franklin County Engineers monument box located on the centerline of said Eterman Road which bears South 40°19'13" East, at a distance of 1089.74 feet. Thence from said Point of Reference North 87°55'11" West, along the Franklin and Union County line, passing across a portion of said 46.176 acre tract, a distance of 486.61 feet to a point at the most easterly corner of said 14.793 acre tract. Thence North 87°55'11" West, along the Franklin and Union County line, and along a portion of the perimeter of said 14.793 acre tract and 46.176 acre tract, and continuing into said 14.793 acre tract, a distance of 796.46 feet to a point. Thence South 02°04'49" West, a distance of 126.76 feet to the True Place of Beginning of the herein-described 0.125 acre Rights of Way.

Thence South 14°22'59" East, a distance of 107.66 feet to a point.

Thence North 87°55'11" East, a distance of 95.94 feet to a point.

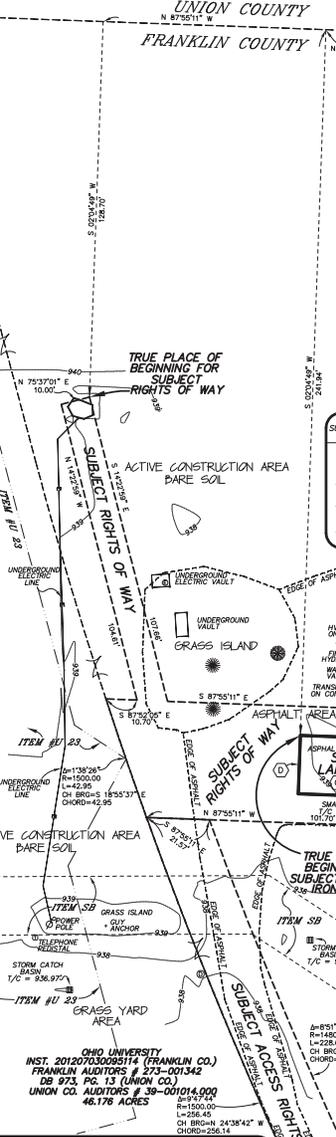
Thence South 02°04'49" West, a distance of 40.00 feet to a point.

Thence North 87°55'11" West, and passing along the end of a 1.135 acre Access Rights of Way, a distance of 101.70 feet to a point of curvature, being in a westerly line of said 14.793 acre tract, being the site of a sewer to the right, having a radius of 150.00 feet, a central angle of 178.26°, the chord of which bears North 18°53'27" West, a chord distance of 42.95 feet to a point.

Thence South 87°23'04" East, into said 14.793 acre tract, a distance of 10.70 feet to a point.

Thence North 14°22'59" West, a distance of 104.61 feet to a point.

Thence North 87°55'11" East, a distance of 100.60 feet to the True Place of Beginning, containing 0.125 acre (5,442 square feet).



OHIO UNIVERSITY
FRANKLIN COUNTY AUDITORS # 273-01342
UNION COUNTY AUDITORS # 39-00103.000
46.176 ACRES

OHIO UNIVERSITY
FRANKLIN COUNTY AUDITORS # 273-01342
UNION COUNTY AUDITORS # 39-00103.000
46.176 ACRES

LOCATION DESCRIPTION

LOCATED IN THE CITY OF DUBLIN
 FRANKLIN & UNION COUNTIES, OHIO

VIRGINIA MILITARY SURVEY NO. 6748

OWNER:
OHIO UNIVERSITY
INST. 201207030095105
O.R. 973, PG. 05
FRANKLIN CO. UNION CO.
14.793 ACRES
FRANKLIN COUNTY AUDITORS # 273-01342
UNION COUNTY AUDITORS # 3900103000

THIS SITE IS LOCATED ON THE HILLIARD, OHIO USGS QUADRANGLE SHEET.

TO REACH THIS SITE FROM THE LEWIS CENTER OFFICE, TRAVEL SOUTH ON U.S. 23 FOR 4.0 MILES TO THE INTERSECTION WITH 2205 EAST ONTO 1270 WEST AND FOLLOW FOR 7 MILES TO THE INTERSECTION WITH U.S. ROUTE 33 / S.R. 161 EAST WEST ONTO STATE ROUTE 33. TRAVEL NORTHWESTERLY ON US-33 FOR 2.7 MILES TO THE STATE ROUTE 161 / POST ROAD EAST. TURN LEFT (WEST) ONTO POST ROAD, AND FOLLOW FOR 0.5 MILE TO A LEFT TURN ONTO AN ETERMAN ROAD. FOLLOW ETERMAN ROAD SOUTH FOR 2000 FEET TO THE SITE ENTRANCE ON YOUR RIGHT.



BUILDING COORDINATES

LATITUDE: 40°06'24.1"

LONGITUDE: 83°11'02.5"

GROUND ELEV.: 939.5'

The horizontal datum (coordinates) is referenced to the North American Datum 1983 (NAD 83) and is expressed in terms of Latitude and Longitude in degrees, minutes, seconds, and decimal parts thereof, and is accurate to within 20 feet horizontally. The site vertical datum (elevations and benchmarks) is in terms of the North American Vertical Datum of 1988 (NAVD 88) and is accurate to within +/- 3 feet vertically.

UNDERGROUND UTILITIES

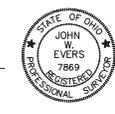
3 MARKING SAWS BEFORE YOU DIG
 OHS 1-800-363-2744
 HO 1-800-363-6444
 KY 1-800-762-6444
 UTILITY PROTECTOR SERVICE
 NON-MEMBERS MUST CALL DIRECTLY.

THE UTILITY INFORMATION SHOWN ON THIS PLAN PREPARED BY PRECISION SURVEYING SERVICES, LLC WAS OBTAINED FROM EXISTING RECORDS AND OR BY FIELD LOCATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THEIR EXISTENCE AND LOCATION, AND TO CONTACT THE APPROPRIATE UTILITY COMPANY FOR FIELD LOCATION.

EASEMENTS AND RECORDING INFORMATION SHOWN HEREON ARE BASED UPON A TITLE REPORT (COMMITMENT NO. 1989843 & 1989400), PROVIDED TO PRECISION SURVEYING SERVICES, LLC, BY AGENTS OF VERIZON WIRELESS. ALL VISIBLE PHYSICAL EVIDENCE OF UTILITIES OR OTHER DATA OBSERVED IN THE FIELD IS DELINEATED HEREON.

TO: New Par, dba Verizon Wireless
 THIS IS TO CERTIFY THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT WAS MADE IS IN ACCORDANCE WITH THE MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ASDM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND ASBM IN 1992. HOWEVER, THE FOCUS OF THIS SURVEY IS THE LEASE SITE AND EASEMENTS PERTINENT THEREON. INFORMATION REGARDING PARTS OF THE SUBJECT TRACT NOT CONCERNED WITH THE SAID LEASE SITE AND THE SPECIFIED EASEMENTS IS NOT INCLUDED HEREON.

DATE: APRIL 16, 2015
 JOHN W. EVANS P.S. 7869



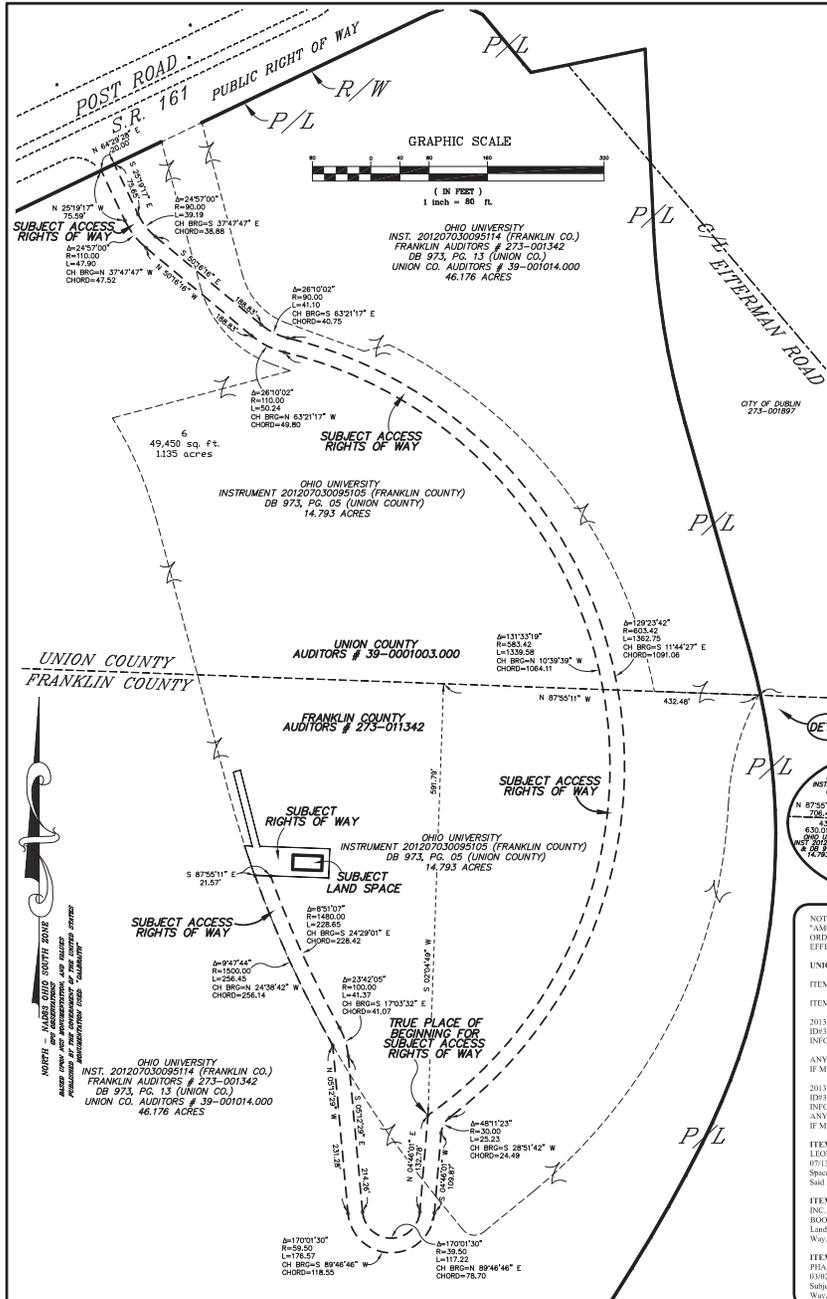
DESCRIPTION
 FINAL LAND SPACE SURVEY

LOCATION
 ~ LAMBS CORNERS ~
 CITY OF DUBLIN
 FRANKLIN COUNTY, OHIO

CLIENT
 New Par, dba Verizon Wireless

PREPARED BY
 PRECISION SURVEYING SERVICES, LLC
 CONSULTING SURVEYORS
 9655 S.R. 56 S.E.
 MT. STERLING, OHIO 43149
 ~ OFFICE ~ (740) 845-1412
 ~ FAX ~ (740) 845-1429

DRAWN BY: J.W.E. **CHECKED BY:** J.W.E. **ORDER NO.:** **AREA NO.:** **SHEET**
 SCALE: 1" = 20' **DATES:** 04/16/15 **FRA** 1 of 2



DESCRIPTION OF 1.135 ACRE ACCESS RIGHTS OF WAY

This is a description for New Par, dba Verizon Wireless, of a 1.135 acre Access Rights of Way, all out of lands owned by Ohio University.

Situate in Virginia Military Survey No. 6748, City of Dublin, County of Franklin, and County of Union, State of Ohio, and being a 1.135 acre Access Rights of Way, out of that 14.793 acre tract of land owned by Ohio University, of record in Instrument 201207030095115, on file in the Office of the Recorder, Franklin County, Ohio, and also recorded as Deed Book 973, Page 5, on file in the Office of the Recorder, Union County, Ohio, and that 46.176 acre tract of land owned by Ohio University, of record in Instrument 201207030095114, on file in the Office of the Recorder, Franklin County, Ohio, and also recorded as Deed Book 973, Page 13, on file in the Office of the Recorder, Union County, Ohio, and being a 1.135 acre Access Rights of Way, being more particularly described as follows:

The Point of Reference being a railroad spike found in the centerline of Etterman Road, at its intersection with the Franklin and Union County line. The Secondary Point of Reference being a solid iron nail within a Franklin County Engineers monument, bolt located at the corner of said Etterman Road which bears South 47°19'13" East, at a distance of 1089.74 feet; Thence from said Point of Reference North 87°55'11" West, along the Franklin and Union County line, a distance of 486.61 feet to a point at the most easterly corner of said 14.793 acre tract; Thence North 87°55'11" West, along the Franklin and Union County line, passing across a portion of said 46.176 acre tract, and along a portion of the perimeter of said 14.793 acre tract, and continuing into said 14.793 acre tract, a distance of 432.48 feet to a point; Thence South 02°04'49" West, a distance of 501.79 feet to the True Place of Beginning of the herein described 1.135 acre Access Rights of Way;

Thence 1339.58 feet along the arc of a curve to the left, having a radius of 583.42 feet, a central angle of 131°33'19", the chord of which bears North 10°39'39" East, a chord distance of 1064.11 feet to a point of reverse curvature;

Thence 58.24 feet along the arc of a curve to the right, having a radius of 110.00 feet, a central angle of 20°10'02", the chord of which bears North 63°21'17" West, a chord distance of 49.80 feet to a point of tangency;

Thence North 59°18'01" West, and passing from said 14.793 acre tract, and into said 46.176 acre tract, a distance of 188.83 feet to a point of curvature;

Thence 47.90 feet along the arc of a curve to the right, having a radius of 110.00 feet, a central angle of 24°57'00", the chord of which bears South 37°47'47" West, a chord distance of 42.52 feet to a point of tangency;

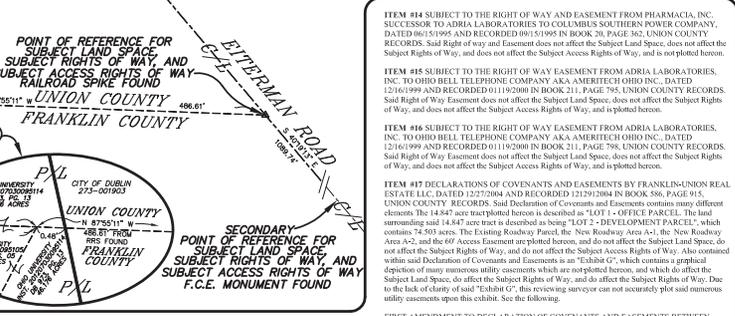
Thence North 25°19'17" West, a distance of 75.59 feet to a point in the northerly line of said 46.176 acre tract, being the southerly line of Post Road, also known as State Route 161;

Thence North 64°29'28" East, along said northerly line of said 46.176 acre tract, being the southerly line of Post Road, also known as State Route 161, a distance of 23.00 feet to a point;

Thence South 25°19'17" East, into said 46.176 acre tract, a distance of 75.65 feet to a point of curvature;

Thence 39.19 feet along the arc of a curve to the left, having a radius of 90.00 feet, a central angle of 24°57'00", the chord of which bears South 37°47'47" East, a chord distance of 38.88 feet to a point of tangency;

Thence South 59°18'01" East, and passing from said 46.176 acre tract, and into said 14.793 acre tract, a distance of 188.83 feet to a point of curvature;



NOTES PERTAINING TO SCHEDULE "B" SECTION 2
 "AMC SETTLEMENT SERVICES"
 ORDER # 1005423
 EFFECTIVE DATE: 10/01/2014

UNION COUNTY INSTRUMENT 201207030095115 (FRANKLIN COUNTY) DB 973, PG. 05 (UNION COUNTY) 14.793 ACRES

FRANKLIN COUNTY INSTRUMENT 201207030095114 (FRANKLIN COUNTY) DB 973, PG. 13 (UNION COUNTY) 46.176 ACRES

ITEM #1: 1.135 ACRES, dba Verizon Wireless, are General Statements and Not Specific Encumbrances.

ITEMS 22, 27, 28, Tax Information

ITEM #7 2013 1ST HALF COUNTY TAXES PAID IN THE AMOUNT OF \$551.13, TAX INFO: 20130010030.000, TAXES ACCRUING WITHIN THE CURRENT YEAR, NEXT TAX DUE INFORMATION NOT AVAILABLE.

ANY SPECIAL ASSESSMENTS (SIDEWALKS, STREET LIGHTS, SEWERS, ETC.): NO

ITEM #11 SUBJECT TO THE RIGHT OF WAY EASEMENT FROM RAY HYLAND AND LEONARD V. SWALLOW TO THE STATE OF OHIO, DATED 03/11/1940 AND RECORDED 07/13/1941 IN BOOK 160, PAGE 796, SAID RIGHT OF WAY EASEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. SAID RIGHT OF WAY EASEMENT IS NOT PLOTTED HEREON.

ITEM #12 SUBJECT TO THE RIGHT OF WAY EASEMENT FROM WARREN-TEDE PHARMACEUTICALS, INC. TO COLUMBIA GAS OF OHIO, INC., DATED 12/29/1965 AND RECORDED 02/02/1966 IN BOOK 222, PAGE 174, UNION COUNTY RECORDS. SAID RIGHT OF WAY DOES NOT AFFECT THE SUBJECT LAND SPACE, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY.

ITEM #13 SUBJECT TO THE RIGHT OF WAY EASEMENT FROM WARREN-TEDE PHARMACEUTICALS, INC. TO STATE OF OHIO, DATED 02/19/1967 AND RECORDED 03/02/1967 IN BOOK 222, PAGE 173, UNION COUNTY RECORDS. SAID EASEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND IS NOT PLOTTED HEREON.

ITEM #14 SUBJECT TO THE RIGHT OF WAY AND EASEMENT FROM PHARMACIA, INC. SUCCESSOR TO ADRIA LABORATORIES TO COLUMBUS SOUTHERN POWER COMPANY, DATED 06/15/1995 AND RECORDED 08/26/1995 IN BOOK 286, PAGE 162, UNION COUNTY RECORDS. SAID RIGHT OF WAY AND EASEMENT DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY, AND IS NOT PLOTTED HEREON.

ITEM #15 SUBJECT TO THE RIGHT OF WAY EASEMENT FROM ADRIA LABORATORIES, INC. TO OHIO BELL TELEPHONE COMPANY, DATED 06/15/1995 AND RECORDED 08/26/1995 IN BOOK 286, PAGE 162, UNION COUNTY RECORDS. SAID RIGHT OF WAY AND EASEMENT DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY, AND IS NOT PLOTTED HEREON.

ITEM #16 SUBJECT TO THE RIGHT OF WAY EASEMENT FROM ADRIA LABORATORIES, INC. TO OHIO BELL TELEPHONE COMPANY, DATED 06/15/1995 AND RECORDED 08/26/1995 IN BOOK 286, PAGE 162, UNION COUNTY RECORDS. SAID RIGHT OF WAY AND EASEMENT DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY, AND IS NOT PLOTTED HEREON.

ITEM #17 DECLARATION OF COVENANTS AND EASEMENTS BY FRANKLIN/UNION REAL ESTATE LLC, DATED 12/27/2004 AND RECORDED 12/29/2004 IN BOOK 586, PAGE 915, UNION COUNTY RECORDS. SAID DECLARATION OF COVENANTS AND EASEMENTS CONTAINS MANY DIFFERENT COVENANTS. THE 14.847 ACRE TRACT PLOTTED HEREON IS DESCRIBED AS "LOT 1 - OFFICE PARCEL". THE LAND SURROUNDING SAID 14.847 ACRE TRACT IS DESCRIBED AS BEING "LOT 2 - DEVELOPMENT PARCEL" WHICH CONTAINS 74.503 ACRES. THE EXISTING ROADWAY PARCEL, THE NEW ROADWAY AREA A-1, THE NEW ROADWAY AREA A-2, AND THE 60' ACCESS EASEMENT IS PLOTTED HEREON, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. ALSO CONTAINED WITHIN SAID DECLARATION OF COVENANTS AND EASEMENTS IS AN "EXHIBIT G" WHICH CONTAINS A GRAPHICAL DEPICTION OF MANY NUMEROUS UTILITY ENCUMBRANCES WHICH ARE NOT PLOTTED HEREON, AND WHICH DO AFFECT THE SUBJECT RIGHTS OF WAY, AND DO AFFECT THE SUBJECT RIGHTS OF WAY. DUE TO THE LACK OF CLARITY OF SAID "EXHIBIT G", THIS REVIEWING SURVEYOR CAN NOT ACCURATELY PLOT SAID UTILITY ENCUMBRANCES UPON THIS EXHIBIT. SEE THE FOLLOWING:

ITEM #18 MEMORANDUM OF LEASE BETWEEN 7001 POST ROAD LLC AND BUCKEYE CHECK CASHING, INC., DATED 02/22/2009 AND RECORDED 12/22/2009 IN BOOK 591, PAGE 884, UNION COUNTY RECORDS. SAID MEMORANDUM OF LEASE DOES NOT AFFECT THE SUBJECT LAND SPACE, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY.

ITEM #19 ACCESS EASEMENT AGREEMENT BETWEEN CITY OF DUBLIN AND 7001 POST ROAD LLC, DATED 09/29/2008 AND RECORDED 12/11/2008 IN BOOK 804, PAGE 38, UNION COUNTY RECORDS. SAID ACCESS EASEMENT AGREEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY. SAID EASEMENT IS PLOTTED HEREON, AND IS LOCATED AT THE NORTHERLY TERMINUS OF THE SUBJECT ACCESS RIGHTS OF WAY.

ITEM #20 SUBJECT TO THE RIGHT OF WAY EASEMENT FROM 7001 POST ROAD LLC TO CITY OF DUBLIN, DATED 07/24/2009 AND RECORDED 12/22/2009 IN BOOK 852, PAGE 285, UNION COUNTY RECORDS. SAID RIGHT OF WAY EASEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. SAID RIGHT OF WAY EASEMENT IS PLOTTED HEREON, AND IS LOCATED WITHIN THE AREA PLOTTED HEREON.

ITEM #21 SUBJECT TO THE RIGHT OF WAY EASEMENT FROM 7001 POST ROAD LLC TO CITY OF DUBLIN, DATED 07/24/2009 AND RECORDED 12/22/2009 IN BOOK 852, PAGE 292, UNION COUNTY RECORDS. SAID RIGHT OF WAY EASEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. SAID RIGHT OF WAY EASEMENT IS PLOTTED HEREON, AND IS IDENTIFIED AS THE AREA PLOTTED AS A TRACT U-19, LAND SWAP AREA, NEAR THE NORTHERLY CORNER PORTION OF GRANTON 46.176 ACRE TRACT.

ITEM #22 MEMORANDUM OF BUILDING AND ROOFTOP LEASE AGREEMENT BETWEEN 7001 POST ROAD LLC, JAMES H. FRANKENBERG, HARRIED AND MICHAEL W. LENHART, MARRIED, AND NEW PAR DBA VERIZON WIRELESS, DATED 10/06/2010 AND RECORDED 11/02/2010 IN BOOK 919, PAGE 16, UNION COUNTY RECORDS. SAID MEMORANDUM OF BUILDING AND ROOFTOP AGREEMENT CONTAINS THE LEGAL DESCRIPTIONS OF WHAT WAS THE ORIGINALLY INCORPORATED SUBJECT LAND SPACE, AND SUBJECT RIGHTS OF WAY. THE ORIGINAL SUBJECT LAND SPACE WHICH WAS SOUTHWEST OF THE "EXISTING BUILDING" WHICH IS PLOTTED HEREON IS PLOTTED HEREON. THE ORIGINAL RIGHTS OF WAY IS NOT PLOTTED HEREON FOR REASONS OF CLARITY, AS IT OVERLAYS A SIGNIFICANT PORTION OF THE SUBJECT RIGHTS OF WAY, AND THE SUBJECT ACCESS RIGHTS OF WAY.

...continued on bottom of Sheet # of 2

NOTES PERTAINING TO SCHEDULE "B" SECTION 2
 "AMC SETTLEMENT SERVICES"
 ORDER # 1005423
 EFFECTIVE DATE: 10/01/2014

FRANKLIN COUNTY INSTRUMENT 201207030095115 (FRANKLIN COUNTY) DB 973, PG. 05 (UNION COUNTY) 14.793 ACRES

FRANKLIN COUNTY INSTRUMENT 201207030095114 (FRANKLIN COUNTY) DB 973, PG. 13 (UNION COUNTY) 46.176 ACRES

ITEMS 22, 27, 28, Tax Information

ITEM #7 2013 1ST HALF COUNTY TAXES PAID IN THE AMOUNT OF \$642.214, TAXES DUE 01/21/2014, TAX INFO: 20130010030.000, TAXES ACCRUING WITHIN THE CURRENT YEAR, NEXT TAX DUE INFORMATION NOT AVAILABLE.

ITEM #8 2013 2ND HALF COUNTY TAXES PAID IN THE AMOUNT OF \$642.214, TAXES DUE 06/20/2014, TAX INFO: 20130010030.000, TAXES ACCRUING WITHIN THE CURRENT YEAR, NEXT TAX DUE INFORMATION NOT AVAILABLE.

ITEM #10 SUBJECT TO RECIPROCAL EASEMENT AGREEMENT FROM OHIO UNIVERSITY AND DUBLIN BOBCAT I LLC, DATED 04/24/2014 AND RECORDED 04/25/2014 IN INST 201404250050172, FRANKLIN COUNTY RECORDS. SAID RECIPROCAL EASEMENT AGREEMENT IS BLANK IN NATURE UPON THE LANDS OF GRANTON, AND DOES AFFECT THE SUBJECT LAND SPACE, AND DOES AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES AFFECT THE SUBJECT ACCESS RIGHTS OF WAY.

FIRST AMENDMENT TO RECIPROCAL EASEMENT AGREEMENT, DATED 06/10/2014 AND RECORDED 06/25/2014 IN INST 201406250050169, FRANKLIN COUNTY RECORDS. SAID FIRST AMENDMENT TO RECIPROCAL EASEMENT AGREEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. SAID FIRST AMENDMENT TO RECIPROCAL EASEMENT AGREEMENT IS PERTINENT TO A VESTING WHICH IS LOCATED NORTHEAST OF SEVERAL LIMITED FEET NORTHEAST OF THE SUBJECT LAND SPACE, AND IS NOT PLOTTED HEREON FOR REASONS OF CLARITY. SEVERAL FEET OF SAID WATERFIRE CONCESSION EXTENDS INTO THE NORTHERLY PORTION OF THE SUBJECT ACCESS RIGHTS OF WAY.

ITEM #11 SUBJECT TO EASEMENT FROM ADRIA LABORATORIES, INC. TO COLUMBUS AND SOUTHERN OHIO ELECTRIC COMPANY, DATED 06/15/1995 AND RECORDED 08/26/1995 IN BOOK 286, PAGE 162, UNION COUNTY RECORDS. SAID EASEMENT DOES AFFECT THE SUBJECT LAND SPACE, DOES AFFECT THE SUBJECT RIGHTS OF WAY, AND AFFECTS THE SUBJECT ACCESS RIGHTS OF WAY. SAID EASEMENT IS BLANK IN NATURE UPON THE GROUND OF GRANTON LANDS WHICH ARE PLOTTED HEREON, WITH THE EXCEPTION OF THOSE LANDS DESCRIBED BELOW, IN THE FOLLOWING TWO Partial Release of Easement Statements.

PARTIAL RELEASE OF EASEMENT BY COLUMBUS SOUTHERN POWER COMPANY, SUCCESSOR IN INTEREST TO COLUMBUS AND SOUTHERN OHIO ELECTRIC COMPANY, DATED 02/10/2010 AND RECORDED 06/18/2010 IN INST # 201006180075745, FRANKLIN COUNTY RECORDS. SAID PARTIAL RELEASE OF EASEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. THE AREA OF LAND RELEASED FROM THE ABOVE REFERENCED EASEMENT IS PLOTTED HEREON AS "U 22, Original Land Space".

PARTIAL RELEASE OF EASEMENT BY OHIO POWER COMPANY DATED 07/08/2014 AND RECORDED 07/09/2014 IN INST # 201407090087862, FRANKLIN COUNTY RECORDS. SAID PARTIAL RELEASE OF EASEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. THE AREA OF LAND RELEASED FROM THE ABOVE REFERENCED EASEMENT IS NOT PLOTTED HEREON FOR REASONS OF CLARITY.

ITEM #14 SUBJECT TO MEMORANDUM OF ECONOMIC DEVELOPMENT AGREEMENT BETWEEN CITY OF DUBLIN AND OHIO UNIVERSITY DATED 06/01/2012 AND RECORDED 07/01/2012 IN INST # 201207010098115, FRANKLIN COUNTY RECORDS. SAID MEMORANDUM OF ECONOMIC DEVELOPMENT AGREEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY WHICH LIES UPON THE 46.176 ACRE TRACT WHICH IS PLOTTED HEREON. UPON FURTHER COMMENT, SAID 46.176 ACRE TRACT HAS NOW BEEN RELEASED.

PARTIAL TERMINATION AGREEMENT BETWEEN CITY OF DUBLIN, OHIO AND OHIO UNIVERSITY DATED 04/24/2014 AND RECORDED 04/25/2014 IN INST # 201404250050172, FRANKLIN COUNTY RECORDS. SAID PARTIAL TERMINATION AGREEMENT DOES NOT AFFECT THE SUBJECT LAND SPACE, DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. THE 46.176 ACRE TRACT WHICH IS PLOTTED HEREON, AS SAID 46.176 ACRES HAVE NOW BEEN RELEASED FROM SAID AGREEMENT.

ITEM #14 SUBJECT TO MEMORANDUM OF GROUND LEASE AGREEMENT BETWEEN DUBLIN BOBCAT I LLC AND OHIO UNIVERSITY DATED 04/25/2014 AND RECORDED 04/25/2014 IN INST # 201404250050172, FRANKLIN COUNTY RECORDS.

ITEM #15 SUBJECT TO DECLARATION OF COVENANTS AND EASEMENTS BY FRANKLIN/UNION REAL ESTATE LLC, DATED 12/27/2004 AND RECORDED 12/29/2004 IN INST #200412290039372, FRANKLIN COUNTY RECORDS. SAID DECLARATION OF COVENANTS AND EASEMENTS CONTAINS MANY DIFFERENT COVENANTS. THE 14.847 ACRE TRACT PLOTTED HEREON IS DESCRIBED AS BEING "LOT 1 - OFFICE PARCEL". THE LAND SURROUNDING SAID 14.847 ACRE TRACT IS DESCRIBED AS BEING "LOT 2 - DEVELOPMENT PARCEL", WHICH CONTAINS 74.503 ACRES. THE EXISTING ROADWAY PARCEL, THE NEW ROADWAY AREA A-1, THE NEW ROADWAY AREA A-2, AND THE 60' ACCESS EASEMENT IS PLOTTED HEREON, AND DOES NOT AFFECT THE SUBJECT RIGHTS OF WAY, AND DOES NOT AFFECT THE SUBJECT ACCESS RIGHTS OF WAY. ALSO CONTAINED WITHIN SAID DECLARATION OF COVENANTS AND EASEMENTS IS AN "EXHIBIT G" WHICH CONTAINS A GRAPHICAL DEPICTION OF MANY NUMEROUS UTILITY ENCUMBRANCES WHICH ARE NOT PLOTTED HEREON, AND WHICH DO AFFECT THE SUBJECT RIGHTS OF WAY, AND DO AFFECT THE SUBJECT RIGHTS OF WAY. DUE TO THE LACK OF CLARITY OF SAID "EXHIBIT G", THIS REVIEWING SURVEYOR CAN NOT ACCURATELY PLOT SAID UTILITY ENCUMBRANCES UPON THIS EXHIBIT. SEE THE FOLLOWING:

FIRST AMENDMENT TO DECLARATION OF COVENANTS AND EASEMENTS, DATED 06/10/2014 AND RECORDED 06/25/2014 IN INST 201406250050169, FRANKLIN COUNTY RECORDS. SAID DECLARATION OF COVENANTS AND EASEMENTS DELETED THE ONE AND ONLY EASEMENT REFERENCED ABOVE IN "EXHIBIT G" WHICH AFFECTS THE SUBJECT LAND SPACE, AND THE SUBJECT RIGHTS OF WAY.

Additional Information in possession of the reviewing Surveyor:

ITEM #54 Easement granted to Columbus and Southern Ohio Electric Company, recorded in Deed Book 2266 Page 131, Franklin County records. Said Easement for utility service purposes does not affect the Subject Land Space, and does not affect the Subject Rights of Way, and does not affect the Subject Access Rights of Way. Said Easement is plotted hereon.

ITEM #55 Easement for utility service purposes granted to the Village of Dublin, Ohio, a municipal corporation, recorded in Official Record 0264210, Franklin County records. Said Easement for utility service purposes does not affect the Subject Land Space, and does not affect the Subject Rights of Way, and does not affect the Subject Access Rights of Way. Said Easement is plotted hereon.

ITEM #56 Easement for utility service purposes granted to the City of Dublin, Ohio, a municipal corporation, recorded in Official Record 20134808, recorded in Official Record 20134831, Franklin County records. Said Easement for utility service purposes does not affect the Subject Land Space, does not affect the Subject Right of Way, and does not affect the Subject Access Rights of Way. Said Easement is plotted hereon.

SITE # CLMB-233

PRELIMINARY LAND SPACE SURVEY

LOCATION ~ LAMBS CORNERS ~ CITY OF DUBLIN, OHIO

CLIENT New Par, dba Verizon Wireless

PREPARED BY PRECISION SURVEYING SERVICES, LLC CONSULTING SURVEYORS 9055 S.R. 56 S.E. MT. STERLING, OHIO 43149 OFFICE # (740) 845-1422 FAX # (740) 845-1422

DRAWN BY J.W.E. CHECKED BY J.W.E. ORDER NO. AREA NO. SHEET 1"= 20' DATE 08/15/10 FRA 2 of 2

A/C	AIR CONDITIONING	MAX	MAXIMUM
ADJ	ADJUSTABLE	MECH	MECHANICAL
AFT	Above FINISH FLOOR	NET	NET
APPROX	APPROXIMATELY	WFL	WARRANTY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	WGR	MANAGER
AWC	AMERICAN WIRE GAUGE	MIN	MINIMUM
BLDG	BUILDING	MIS	MISCELLANEOUS
BLK	BLOCK	N	NORTH
BMR	BASE MOBILE RADIO	N/A	NOT APPLICABLE
B/S	BUILDING STANDARD	NTS	NOT IN CONTRACT NOT TO SCALE
CLG	CEILING	O/C.O.C.	ON CENTER
CLF	CLEAR	OD	OUTSIDE DIAMETER
CHOC	CONSULT	OP	OPENING
CONC	CONCRETE	OPF	OPPOSITE
CONST	CONSTRUCTION	PLYWD	PLYWOOD
CONT	CONTINUOUS	PR	PAIR
DBL	DOUBLE	PROJ	PROJECT
DIA	DIAMETER	PROP	PROPERTY
DIAG	DIAGONAL	PT	PRESSURE TREATED
DM	DIAM	REQ'D	REQUIRED
DN	DOWN	RM	ROOM
DTL/DET	DETAIL	RO	ROUGH OPENING
DWG	DRAWING	S	SOUTH
E	EAST	SHT	SHEET
EA	EACH	SM	SIMILAR
ELEV	ELEVATION	SPEC	SPECIFICATION
ELECT	ELECTRICAL	SQ	SQUARE
EQU	EQUAL	SS	STAINLESS STEEL
EQUIP	EQUIPMENT	STL	STEEL
EW	EACH WAY	STRUC	STRUCTURAL
EXIST	EXISTING	SUSP	SUSPENDED
EXT	EXTERIOR	SV	SHEET VINYL
FIN	FINISH	THRU	THROUGH
FLUR	FLUORESCENT	TIND	TINNED
FLR	FLOOR	TOC	TOP OF CONCRETE
FT	FOOT	TOP	TOP OF MASONRY
GA	GAUGE	TYP	TYPICAL
GALV	GALVANIZED	UBC	UNIFORM BUILDING CODE
GC	GENERAL CONTRACTOR	UNLESS	UNLESS NOTED OTHERWISE
GRND	GROUND	VERT	VERTICAL
GWD	GIPSUM WALL BOARD	VF	VERIFY IN FIELD
GYP	GIPSUM BOARD	VT	VINYL TILE
HARD	HARDWOOD	W	WEST
HORIZ	HORIZONTAL	WH	WITH
HR	HOUR	WIN	WINDOW
HT	HEIGHT	W/O	WITHOUT
HVAC	HEATING, VENTING & AIR CONDITIONING	WP	WATERPROOF
ID	INSIDE DIA.	∠	ANGLE
IN	INCH	AND	AND
INFO	INFORMATION	&	&
INSUL	INSULATION	C	CENTER LINE
INT	INTERIOR	P	PROPERTY LINE
LB(S)	POUND(S)	AT	AT
		#	NUMBER
△	REVISION	①	DETAIL REFERENCE
◇	KEY NOTE	①	ELEVATION REFERENCE
100	ROOM NUMBER	①	SECTION REFERENCE
22	KEYED NOTE	①	

ABBREVIATIONS AND SYMBOLS

Geotechnical Information:

- REFER TO THE PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS RELATED TO CONSTRUCTION.
- THE OWNER HAS CAUSED A GEOTECHNICAL EXPLORATION TO BE PERFORMED AT THE SITE BY:
FS TAN LAND SURVEYORS & CONSULTING ENGINEERS
2315 CRITTENDEN DRIVE
LOUISVILLE, KY 40217
PHONE: (502) 636-5111
FS TAN PROJECT NO. XX-XXXX, DATED XXX XX, 2011
- THE CONTRACTOR SHALL NOTIFY THE CLIENT'S GEOTECHNICAL ENGINEER TO COORDINATE HAVING A FIELD REPRESENTATIVE ON SITE FOR TESTING AND INSPECTION.
COPIES OF THE REPORT ARE ISSUED TO THE CONTRACTOR FOR CONVENIENCE ONLY. THE REPORT IS NOT A PART OF THE CONTRACT DOCUMENTS. NEITHER THE OWNER NOR THE ENGINEER/ARCHITECT GUARANTEE THE ACCURACY OR VALIDITY OF THE DATA CONTAINED THEREIN, NOR DO THEY ASSUME ANY RESPONSIBILITY FOR THE CONTRACTOR'S USE OR INTERPRETATION OF THE DATA CONTAINED THEREIN.

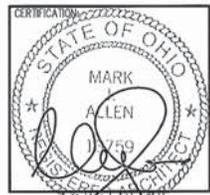
GEOTEXTILE PARAMETERS		
PROPERTY	MINIMUM VALUE (A)	TEST METHOD
GRAB STRENGTH	180 LBS.	ASTM D-4832-91
PUNCTURE STRENGTH	75 LBS.	ASTM D-4833-88
BURST STRENGTH	290 LBS.	ASTM D-3786
TRAPEZOIDAL TEAR	50 LBS.	ASTM D-4571-87

(A) ALL VALUES REPRESENT MINIMUM ROLL VALUES

NOTES:
THE FABRIC SHOULD BE PLACED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. INTERSECTIONS OF SHEETS MUST BE SEAM OR SUFFICIENTLY OVERLAPPED (AT LEAST 24 INCHES) OR AS SPECIFIED BY THE MANUFACTURER. THE GEOTEXTILE SHEETS SHOULD ALSO BE PLACED TAUT TO REDUCE WRINKLES OR FOLDS. CARE MUST BE EXERCISED TO PREVENT PHYSICAL DAMAGE OF THE GEOTEXTILE PRIOR TO, DURING AND AFTER INSTALLATION. UTILITIES SHOULD BE INSTALLED BEFORE PLACING THE FABRIC.

General Notes:

- SCHEDULE: THE CONSTRUCTION OF THE SITE REQUIRES A CERTAIN SEQUENCE OF EVENTS TO MINIMIZE CONSTRUCTION TIME REQUIRED UNTIL AVAILABILITY OF CELLULAR TELEPHONE SERVICE.
- CONSTRUCTION STAKING: THE GENERAL CONTRACTOR SHALL CONTACT THE SURVEYOR TO SCHEDULE CONSTRUCTION STAKING. SURVEYOR TO STAKE LEASE AREA CORNERS, SHELTER CORNERS, CENTER OF THE 3 TOWER LEGS (VERIFY LEG CENTER LINE DIMENSION WITH TOWER DRAWINGS) AND CENTERLINE OF ALL ACCESS AND UTILITY EASEMENTS.
- SITE CLEARING - EXCAVATION AND FILL: ALL NEW SHELTER AND TOWER LOCATIONS SHALL BE CLEARED OF ALL TOPSOIL AND VEGETATION. CONTRACTOR SHALL USE EXCAVATED MATERIAL FROM FOUNDATION EXCAVATION AND SHALL PROVIDE, SPREAD AND COMPACT BANK RUN GRAVEL AS REQUIRED TO BRING SHELTER UP TO ELEVATIONS AS INDICATED BY THE FINAL SUB-GRADE ELEVATIONS AS SHOWN ON THE PLANS.
- EQUIPMENT SHELTER AND TOWER FOUNDATIONS: THE CONTRACTOR SHALL INSTALL THE EQUIPMENT SHELTER FOUNDATION AND TOWER FOUNDATION(S) INCLUDING THE ANCHOR BOLTS AS FURNISHED BY THE TOWER MANUFACTURER (TOWER FABRICATION, ERECTION AND ANTENNA INSTALLATION SHALL BE BY OTHERS). CONTRACTOR SHALL CONTACT THE GEOTECHNICAL CONSULTANT LISTED IN THE GEOTECHNICAL INFORMATION OR OTHER QUALIFIED GEOTECHNICAL CONSULTANT FOR ON SITE INSPECTIONS PRIOR TO POURING CONCRETE FOR TOWER AND SHELTER FOUNDATIONS. CONCRETE CORES (THREE (3) CYLINDERS PER TRUCK) TO BE TAKEN AND TESTED BY THE CONSULTANT AND PROVIDE THREE (3) COPIES OF THE TESTING RESULTS TO THE VERIZON WIRELESS PROJECT MANAGER.
- PREFABRICATED SHELTER: THE GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS FOR THE PROPER LIFTING OF THE SHELTER FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION ON THE CONCRETE FOUNDATION. THE SHELTER SHALL BE LIFTED INTO PLACE BY USING EIGHT (8) LIFTING EYELETS PROVIDED BY THE SHELTER MANUFACTURER. THE SHELTER MANUFACTURER REQUIRES EIGHT (8) 3/4" DIA., 15' LONG STEEL CABLES CONNECTED TO THE SPREADER BAR. IF THE SPREADER BAR IS AT LEAST TWO FEET WIDER THAN THE SHELTER, CORNER PROTECTORS WILL NOT NEED TO BE USED. THE APPROXIMATE WEIGHT OF THE SHELTER WITH THE TELEPHONE EQUIPMENT IS 72,000 LBS (REFER TO SHELTER LIFTING INSTRUCTIONS ON SHEET B-1). THE CONTRACTOR SHALL ANCHOR THE SHELTER TO THE CONCRETE SLAB WITH STEEL PLATES AND ANCHOR BOLTS PROVIDED BY THE SHELTER MANUFACTURER. THE VERIZON WIRELESS SHELTER SHALL NOT BE USED FOR THE STORAGE OF ANY MATERIALS, TOOLS, ETC. USED BY THE CONTRACTOR OR SUB-CONTRACTORS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE ELECTRICAL DISCONNECT, EXTERIOR LIGHT FIXTURE, DOOR CANOPIES (WITH CAULKING), WAFFLER AND LOOSE SHIP MATERIALS, INCLUDING FUELING, START UP AND TESTING, COORDINATE WITH OPERATIONS TO SET GENERATOR ROUTINE RUN DATE.
- ACCESS DRIVEWAY: THE GENERAL CONTRACTOR SHALL CONSTRUCT THE ACCESS DRIVEWAY PER THE ALIGNMENT AND CROSS SECTION ON THE DRAWINGS. IF ANY AREA OF CONSTRUCTION REQUIRES MORE FILL OF AGGREGATE STONE THAN SHOWN ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR APPROVAL OF THE SIZE, TYPE AND QUANTITY OF STONE/FILL NECESSARY, AND SHALL NOT BE USED UNTIL APPROVAL BY THE ARCHITECT/ENGINEER.
- UTILITIES: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACK FILLING OF TRENCHES REQUIRED FOR UNDERGROUND TELEPHONE AND ELECTRICAL UTILITIES. REFER TO ELECTRICAL SHEETS FOR THE UTILITY TRENCH PLAN AND DETAILS COORDINATE, SERVICE DATE WITH THE RESPECTIVE UTILITY COMPANIES.
- ANTENNAS INSTALLATION: ALL ANTENNAS AND LINES AND ICE BRIDGE SHALL BE INSTALLED BY ANTENNA CONTRACTOR.
- HERBICIDE: AFTER PLACEMENT AND COMPACTING OF FILL AROUND THE PREFABRICATED SHELTER AND BEFORE PLACEMENT OF LIMESTONE SURFACE, A WEED BARRIER SHALL BE PLACED AND HERBICIDE SHALL BE SPRAYED OVER ALL DISTURBED AREAS.
- TRASH REMOVAL: THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH AS CREATED BY HIMSELF AND HIS SUBCONTRACTORS AND ALSO BY OTHER CONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES, AND PACKAGING. THE GENERAL CONTRACTOR SHALL PROVIDE A TRASH DUMPSTER (40 YARD ROLL OFF) ON THE SITE UNTIL ALL CONSTRUCTION WORK AND EQUIPMENT INSTALLATION WORK HAS BEEN COMPLETED. ALL TRASH SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL AREA. FAILURE TO PROVIDE A DUMPSTER ON SITE WILL RESULT IN A \$1000.00 REDUCTION IN THE CONTRACT AMOUNT.
- FINAL CLEAN UP: UPON COMPLETION OF ALL WORK BY THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS ON THIS PROJECT, THE GENERAL CONTRACTOR SHALL STRIP AND CLEAN THE FLOOR OF THE SHELTER, USING AN INDUSTRIAL STRIPPING MACHINE. THE FINISHED FLOOR SHALL BE CLEAN AND DUST FREE. NO SURFACE FINISHES SHALL BE APPLIED. THE GENERAL CONTRACTOR IS ALSO RESPONSIBLE FOR THE REMOVAL OF ALL EXCESS MATERIALS FROM INSIDE THE SHELTER ALONG WITH SHIPMENT OF NOTED MATERIALS BACK TO THE OWNER.
- GENERAL CONTRACTOR SHALL REQUEST DELIVERY OF VERIZON WIRELESS ANTENNAS AND MISCELLANEOUS MATERIALS WHEN READY TO RECEIVE AND INVENTORY. ANY SHORTAGES MUST BE REPORTED TO THE VERIZON WIRELESS PROJECT MANAGER WITHIN 48 HOURS OF DELIVERY. REQUEST FOR FINAL CLEAN UP WILL BE AT THE DIRECTION OF THE VERIZON WIRELESS PROJECT MANAGER.
- THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE TOILET ON SITE DURING THE DURATION OF THE CONSTRUCTION PROJECT.
- UNDERGROUND UTILITY PROTECTION SERVICE: CONTACT OHIO PROTECTION SERVICE (800) 362-2764 48 HOURS PRIOR TO DIGGING.
- THE GENERAL CONTRACTOR SHALL NOTIFY THE PROJECT ADMINISTRATOR 48 HOURS PRIOR TO POURING CONCRETE FOR SHELTER FOUNDATION.
- THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL INVESTIGATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY TO PERMIT VERIFICATION OF THE CONDITIONS, AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLANS AND SPECIFICATIONS AND DISCLOSED BY THE STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING, AS REQUIRED ABOVE, OF SUCH DIFFERING SUBSURFACE CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVED, CONCRETE, OR GRAVEL PARKING AREAS AND DRIVES. CONTRACTORS SHALL PHOTOGRAPH AND VIDEOTAPE EXISTING PARKING AREAS AND DRIVES PRIOR TO CONSTRUCTION, ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPLACED TO EXISTING OR BETTER CONDITION AT NO ADDITIONAL COST.
- CONSTRUCTION STAKING: THE GENERAL CONTRACTOR SHALL CONTACT THE A&E FIRM TO SCHEDULE THE CONSTRUCTION STAKING. SURVEYOR TO STAKE THE LEASE AREA CORNERS, FOR SELF-SUPPORTING TOWERS: THE THREE TOWER LEGS, FOR MONOPOLE TOWERS: THE CENTER OF TOWER. ACCESS EASEMENT WILL BE STAKED AT FIVE (5) FOOT OFFSETS AT FIFTY (50) FOOT INTERVALS (FOR CURVED ACCESS EASEMENTS, STAKE THE POINT OF CURVE AND POINT OF RETURN IN ADDITION TO FIFTY (50) FOOT INTERVALS). PROVIDE A TRUE NORTH STAKE AND A BENCHMARK NEAR THE TOWER COMPOUND. FOR UTILITY EASEMENTS IN ADDITION TO THE ACCESS-UTILITY EASEMENT, THE SURVEYOR SHALL STAKE THE CENTER LINE OF THE UTILITY EASEMENT.
- BEFORE AND DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL AS NECESSARY IN THE FORM OF SILT FENCES FOR THE SITE AND BARRIERS AROUND ANY EXIST. MANHOLES, INLETS, OR CATCHBASINS SUSCEPTIBLE TO EROSION. EROSION CONTROL MEASURES SHALL BE PERIODICALLY INSPECTED TO ENSURE PROPER FUNCTION. EROSION CONTROL SHALL BE REMOVED UPON COMPLETION OF WORK.
- GRADE AND RE-SEED ALL GRASS LAWN AREAS DISTURBED DURING CONSTRUCTION PER SOIL PROTECTION CHART TO MATCH EXIST. SURROUNDINGS AFTER WORK IS COMPLETE OR AS WEATHER PERMITS WITH APPROVAL FROM THE PROPERTY OWNER.



RELEASE DATE	
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: ALM
CHECKED BY: DAH
SITE NAME:

LAMB CORNERS
CLMB-233
CELL SITE

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

GENERAL
CONSTRUCTION
NOTES

A&E PROJECT NO.:

001-1042

SHEET NO.:

GN-0

EROSION AND SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATION AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE RAINWATER AND LAND DEVELOPMENT MANUAL DRAFTED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES.

SCHEDULE OF EROSION AND SEDIMENT CONTROL MEASURES:

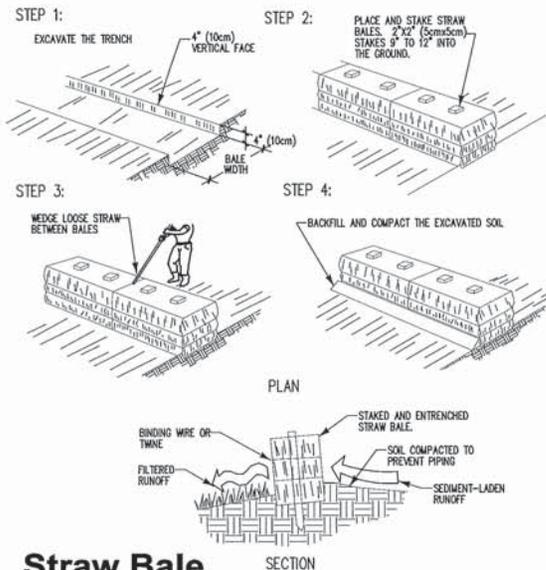
THE FOLLOWING SEQUENCE OF EVENTS AND EROSION CONTROL MEASURES SHALL BE INCORPORATED INTO THE CONSTRUCTION SCHEDULE FOR THIS PROJECT AND SHALL APPLY TO ALL CONSTRUCTION ACTIVITIES WITHIN THE PROJECT LIMITS:

1. ALL STORM WATER MANAGEMENT FACILITIES INCLUDING EROSION CONTROL ARE TO BE INSTALLED AND MADE OPERATIONAL AS A FIRST STEP BEFORE THE START OF CLEARING AND GRUBBING OPERATIONS.
2. ALL UNPAVED AREAS AND/OR AREAS DISTURBED BY CONSTRUCTION SHALL BE TOP SOILED AND SEEDED.
3. ALL DISTURBED AREAS WHICH ARE NOT DESIGNATED FOR PAVING, UTILITY OR STRUCTURAL USES OR AREAS THAT HAVE BEEN DENuded & HAVE FINAL GRADE ESTABLISHED, SHALL HAVE PERMANENT SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS THEREAFTER. ALL DENuded AREAS THAT DO NOT HAVE FINAL GRADE ESTABLISHED, SHALL HAVE TEMPORARY SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS THEREAFTER. SEE SPEC'S.
4. INLET PROTECTION SHALL BE INSTALLED AT ALL STORM WATER STRUCTURES TO PREVENT SEDIMENT FROM ENTERING THE CITY'S SYSTEM.
5. PERIODIC INSPECTIONS AND REQUIRED MAINTENANCE MUST BE PROVIDED.

EROSION AND SEDIMENT CONTROL MAINTENANCE:

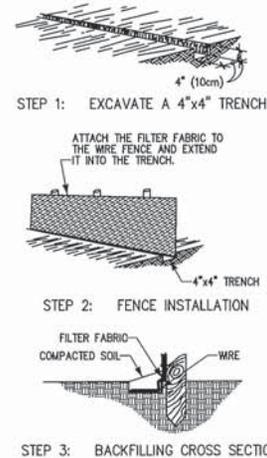
IN GENERAL, ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAINFALL OR WEEKLY, WHICHEVER IS MOST FREQUENT, AND SHOULD BE CLEANED AND REPAIRED ACCORDING TO THE FOLLOWING SCHEDULE:

1. SILT FENCES SHALL BE CHECKED AFTER EVERY RAINFALL AND AT LEAST DAILY DURING PROLONGED PERIODS OF RAIN. SEDIMENTS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY 1/2 THE HEIGHT OF THE SILT FENCE.
2. STRAW BALE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE BALES.
3. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEDED AS NEEDED.
4. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS FOLLOWING FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.



Straw Bale Barrier Installation

2 SCALE: NO SCALE

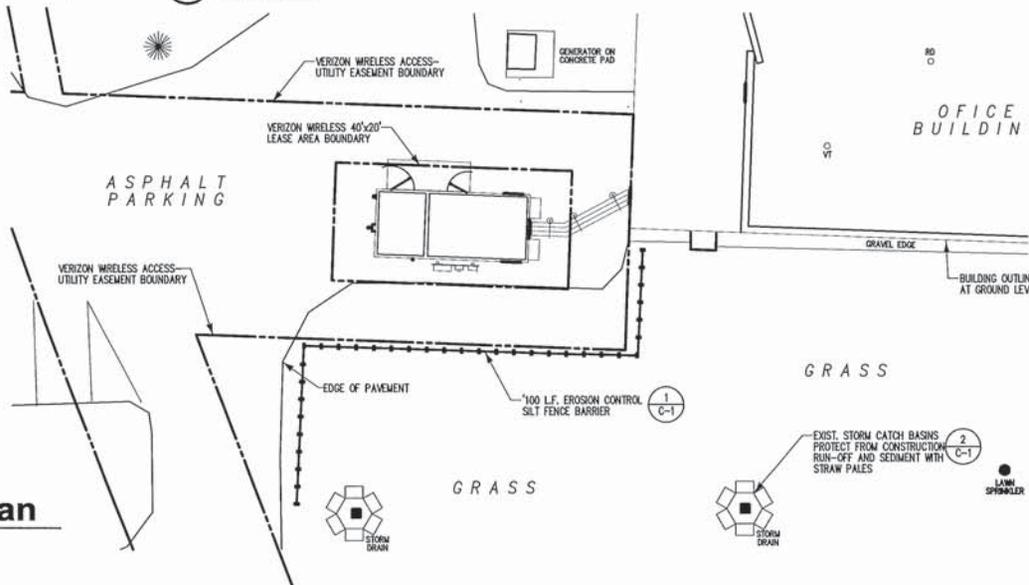


1 Erosion Control Details

SCALE: NO SCALE

Erosion Control Plan

1 inch = 20ft.



NEW PAR d/b/a
verizon

Mission 1
Communications
6355 CONSTITUTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-08	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-08-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COMD.
10-02-13	REVISED PER BUILDING OWNER
06-18-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
CHECKED BY: DJM

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

EROSION CONTROL PLAN,
NOTES AND DETAILS

ARE PROJECT NO.:

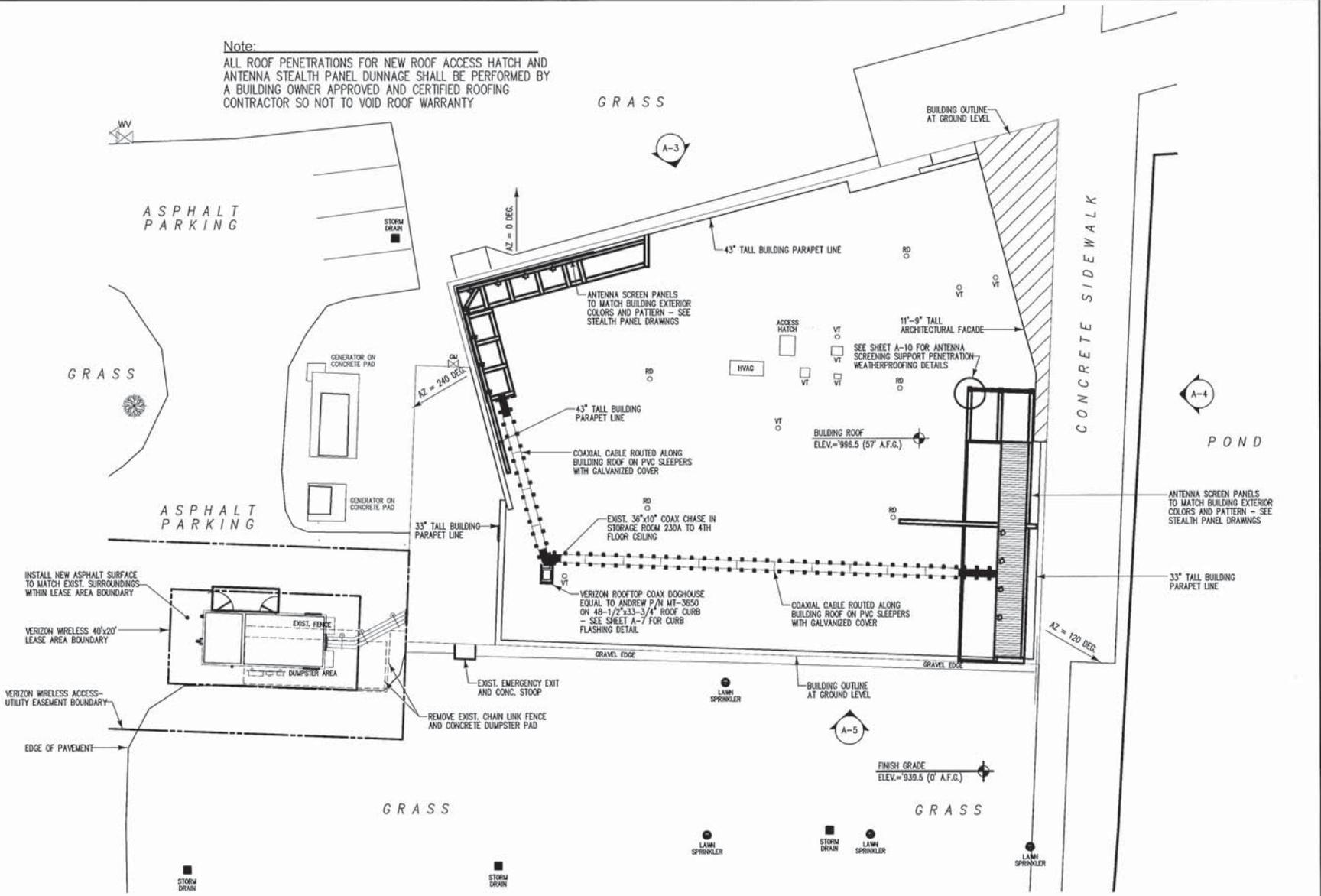
001-1042

SHEET NO.:

C-1

OHIO
**Utilities Protection
SERVICE**
Call Before You Dig
CALL (800) 362-2764
48 HOURS PRIOR TO DIGGING

Note:
 ALL ROOF PENETRATIONS FOR NEW ROOF ACCESS HATCH AND ANTENNA STEALTH PANEL DUNNAGE SHALL BE PERFORMED BY A BUILDING OWNER APPROVED AND CERTIFIED ROOFING CONTRACTOR SO NOT TO VOID ROOF WARRANTY



Enlarged Shelter Location Plan



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND FOR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.
 DRAWN BY: JLM
 CHECKED BY: DJM

SITE NAME:

**LAMB CORNERS
 CLMB-233
 CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
 DUBLIN, OH 43016

SHEET TITLE:

DEVELOPED SITE PLAN

AEC PROJECT NO.:

001-1042

SHEET NO.:

A-1

ASPHALT
PARKING

VERIZON WIRELESS
ACCESS UTILITY EASEMENT

GENERATOR ON
CONCRETE PAD

BUILDING OUTLINE
AT GROUND LEVEL

LOADING
DOCK AREA

OFFICE
BUILDING

24 PORT COAX BUILDING ENTRY
PANEL EQUAL TO SITE PRO
P/N E1340 INSTALL PER
MANUF. RECOMMENDATIONS

ROUTE COAX TIGHT TO 2ND
FLOOR STRUCTURE ABOVE
1ST FLOOR CEILING

EXIST. 25"x10" COAX CHASE IN
STORAGE ROOM 230A TO 4TH
FLOOR CEILING

24 PORT COAX BUILDING ENTRY
PANEL EQUAL TO SITE PRO
P/N E1340 INSTALL PER
MANUF. RECOMMENDATIONS

ROUTE COAX AS
HIGH AS POSSIBLE

29'-3"

1'-5"

EXIST. CONC. STOOP
AT BUILDING EXIT

BUILDING OUTLINE
AT GROUND LEVEL

1
A-6
VERIZON WIRELESS 26'x11'-6"
FIBREBOND PREFABRICATED EQUIP.
SHELTER ON CONCRETE FOUNDATION

6
A-6
ASPHALT SURFACE TO MATCH
EXIST. SURROUNDINGS

8
A-6
GPS ANTENNA

VERIZON WIRELESS LEASE AREA

VERIZON WIRELESS UTILITY
H-FRAME SEE "X" SHEETS FOR
ADDITIONAL INFORMATION

7
A-6
27" WIDE GALV. ICE BRIDGE

EXIST. EDGE OF
PAVEMENT

VERIZON WIRELESS
ACCESS UTILITY EASEMENT

26'-0"

17'-0"

GRASS



Enlarged Shelter Location Plan

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

GRASS

NEW PAR d/b/a
verizon

Mission 1
Communications
8355 CONSTITUTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND FOR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
CHECKED BY: DAH

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

ENLARGED SHELTER
LOCATION PLAN

AME PROJECT NO.:

001-1042

SHEET NO.:

A-2

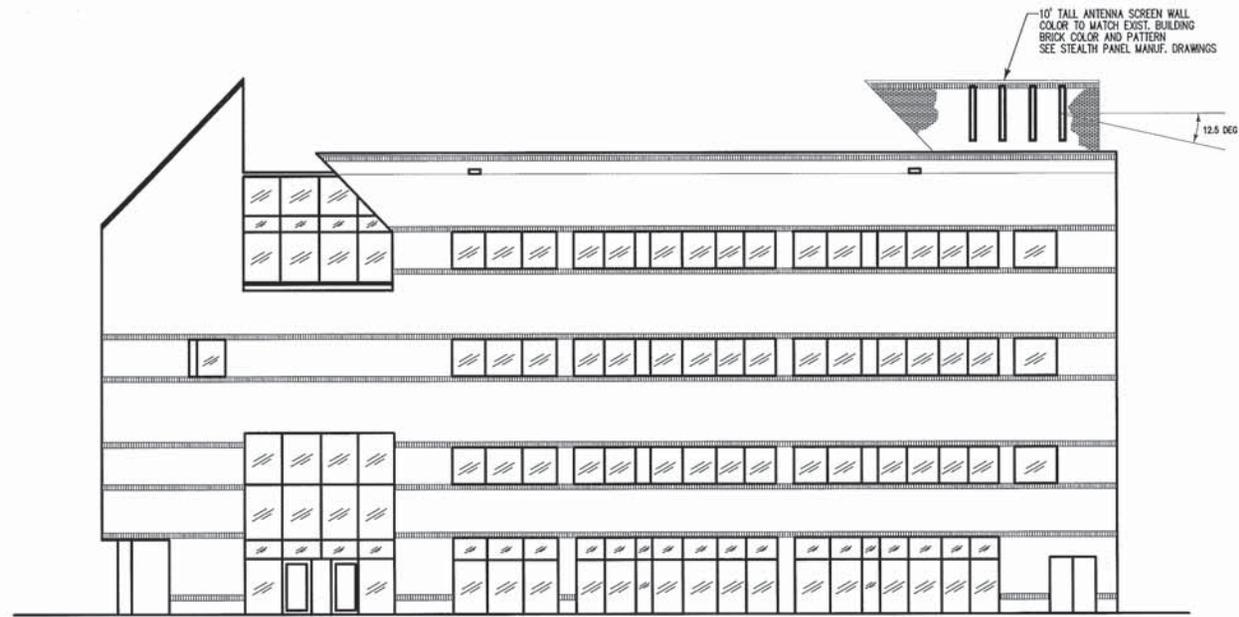
- 68'-9" ELEV.
TOP OF FACADE
AND ANTENNA SCREEN WALL
- 64'-9" ELEV.
ANTENNA C.L.
- 57'-0" ELEV.
ROOF LEVEL

- 42'-0" ELEV.
FOURTH FLOOR LEVEL

- 28'-0" ELEV.
THIRD FLOOR LEVEL

- 14'-0" ELEV.
2ND FLOOR LEVEL

- 0'-0" ELEV.
GROUND LEVEL

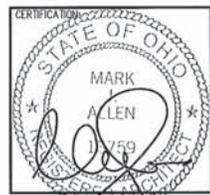


North Building Elevation

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

NEW PAR d/b/a
verizon

Mission 1 Communications
6355 CONSTITUTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
CHECKED BY: DJM

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

**NORTH BUILDING
ELEVATION**

AAE PROJECT NO.:

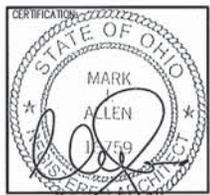
001-1042

SHEET NO.:

A-3

NEW PAR d/b/a
verizon

Mission 1 
 Communications
 6355 CONSTITUTION DRIVE, SUITE A
 FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-29-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
06-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.
 DRAWN BY: JLM
 CHECKED BY: DJM

SITE NAME:

**LAMB CORNERS
 CLMB-233
 CELL SITE**

SITE ADDRESS:

**6775 BOBCAT WAY
 DUBLIN, OH 43016**

SHEET TITLE:

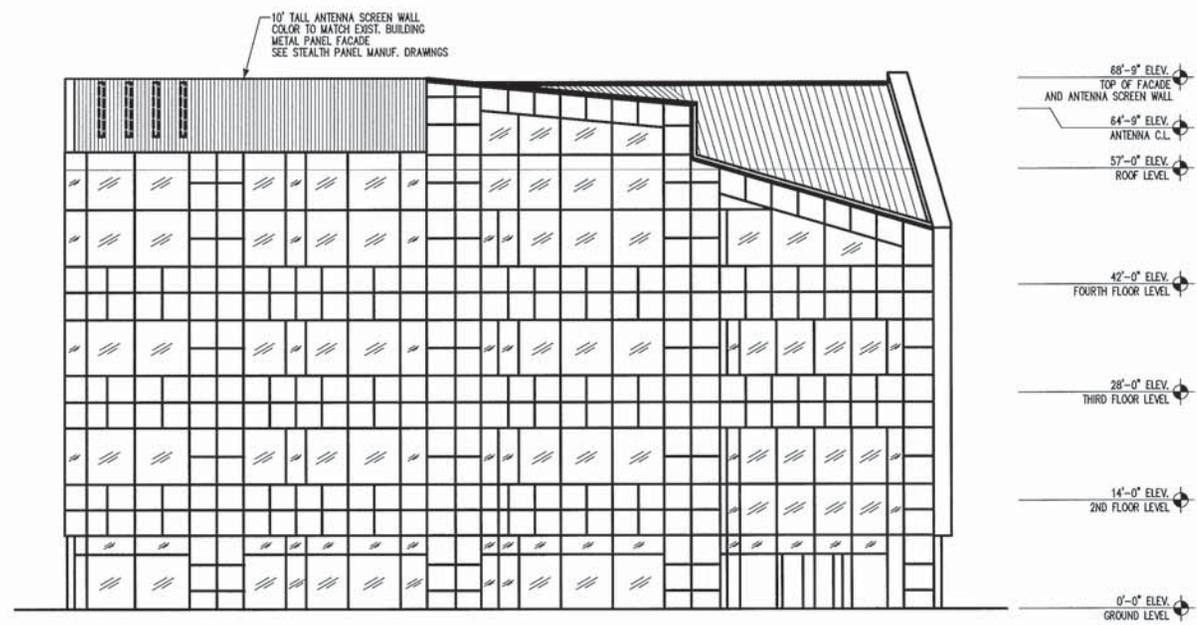
**EAST
 BUILDING ELEVATION**

AME PROJECT NO.:

001-1042

SHEET NO.:

A-4



East Building Elevation

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



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
CHECKED BY: DJM

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

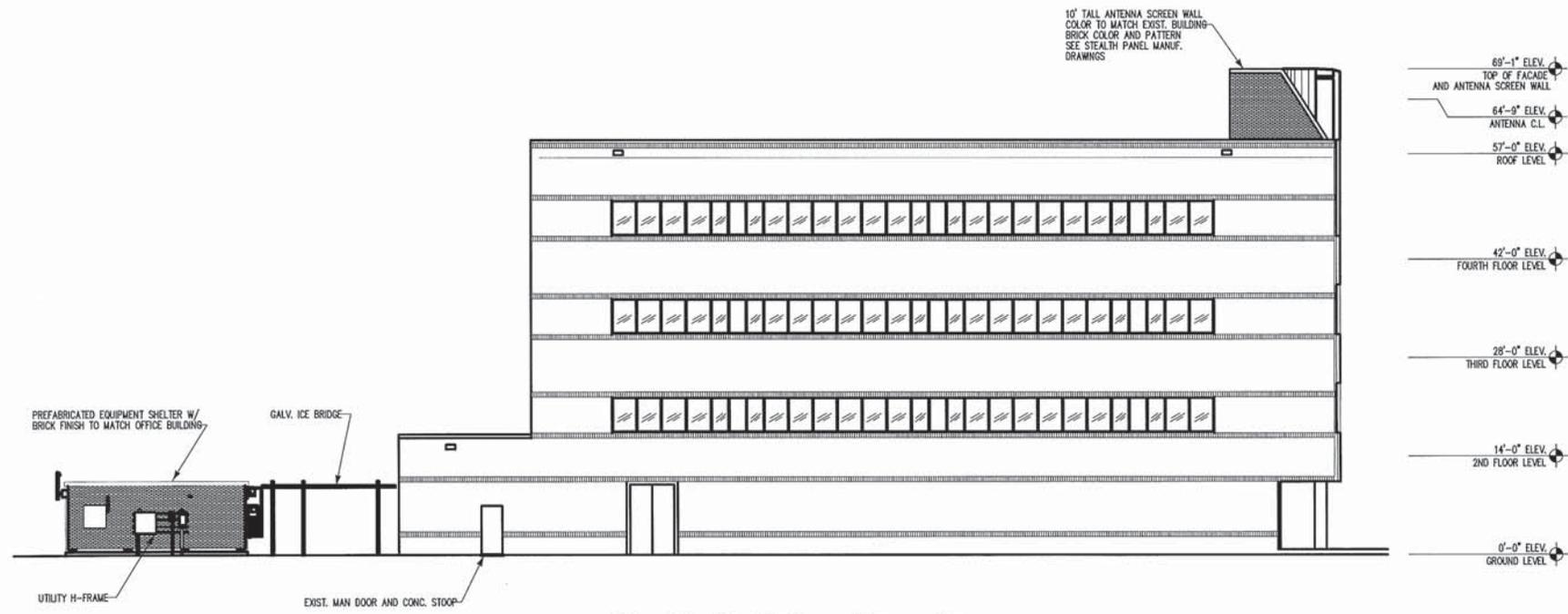
**SOUTH
BUILDING ELEVATION**

AAE PROJECT NO.:

001-1042

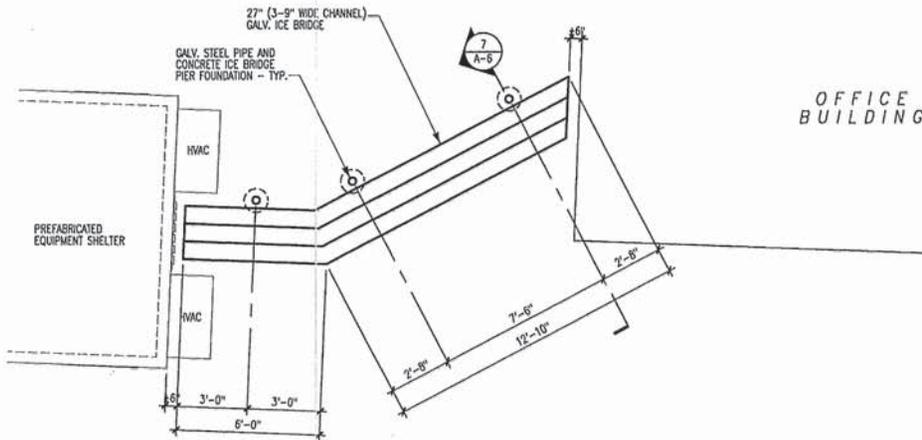
SHEET NO.:

A-5



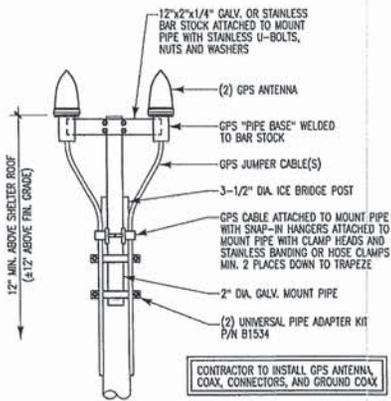
South Building Elevation

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

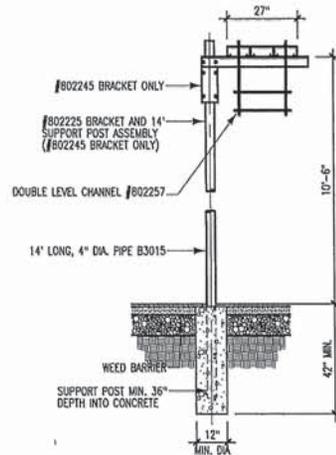


2 Ice Bridge Plan
 $3/16\" = 1'-0\"$
 (22X34: $3/8\" = 1'-0\"$)

NOTES:
 ALL PART NUMBERS P/N REFER TO VALMONT COMMUNICATIONS
 COMPLETE 27\" WIDE X 10' LONG ICE BRIDGE KIT P/N 852165
 27\" WIDE X 20' LONG ICE BRIDGE KIT P/N 852170

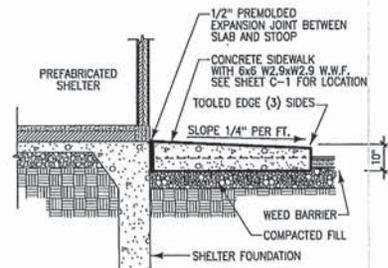


8 GPS Mount Detail
 $3/4\" = 1'-0\"$
 (22X34: $1-1/2\" = 1'-0\"$)

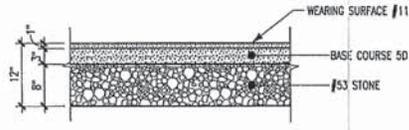


7 Ice Bridge Section
 $1/4\" = 1'-0\"$
 (22X34: $1/2\" = 1'-0\"$)

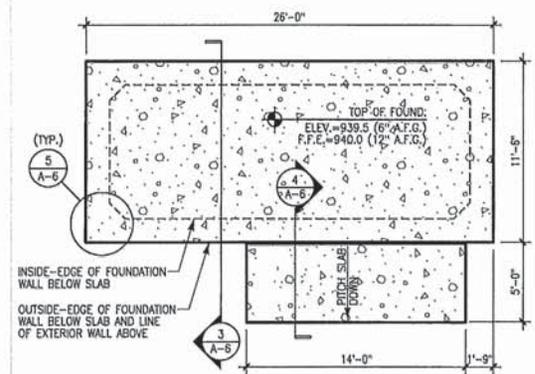
OFFICE BUILDING



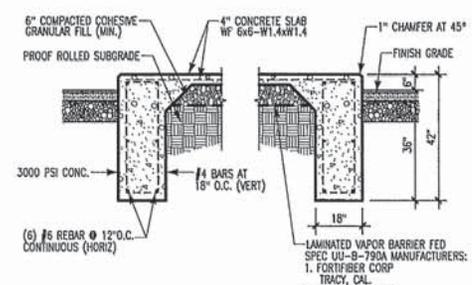
4 Concrete Stoop
 $1/4\" = 1'-0\"$
 (22X34: $1/2\" = 1'-0\"$)



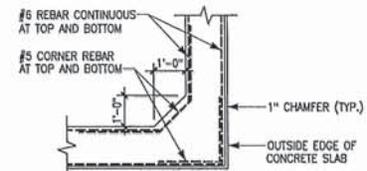
6 Asphalt Pavement Section
 $1/2\" = 1'-0\"$
 (22X34: $1\" = 1'-0\"$)



1 Shelter Foundation
 $1/8\" = 1'-0\"$
 (22X34: $1/4\" = 1'-0\"$)



3 Shelter Foundation Section
 $1/4\" = 1'-0\"$
 (22X34: $1/2\" = 1'-0\"$)



5 Corner Reinforcing
 $1/4\" = 1'-0\"$
 (22X34: $1/2\" = 1'-0\"$)

NEW PAR d/b/a
verizon

Mission 1
 Communications
 6355 CONSTITUTION DRIVE, SUITE A
 FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
 CHECKED BY: DAH

**LAMB CORNERS
 CLMB-233
 CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
 DUBLIN, OH 43016

SHEET TITLE:

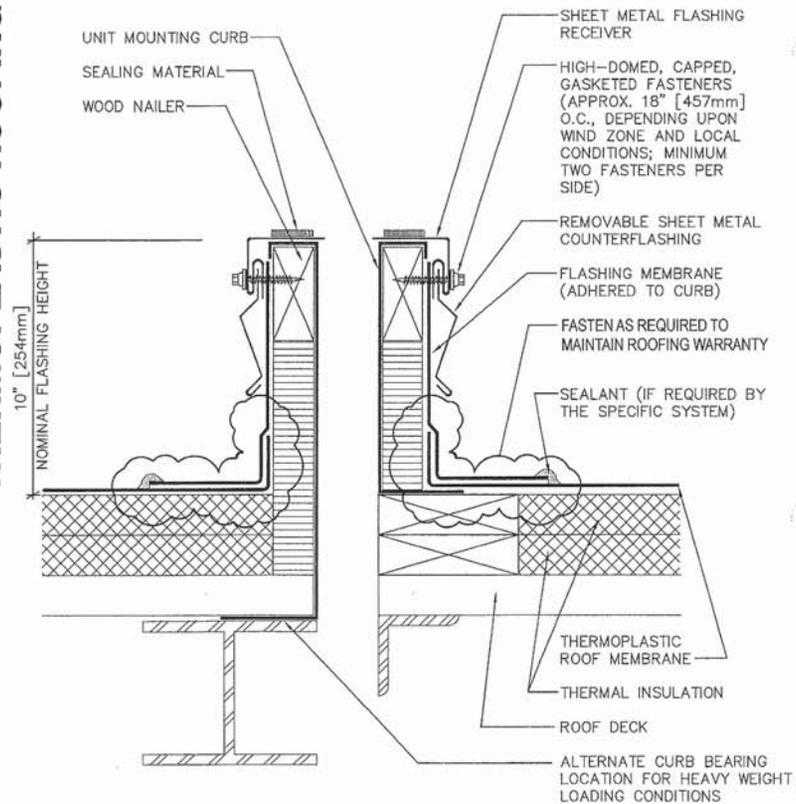
SITE CIVIL AND
 SHELTER DETAILS

AME PROJECT NO.:
 001-1042

SHEET NO.:

A-6

THERMOPLASTIC ROOFING



NOTES:

1. THE CURBS, TOP WOOD NAILER, AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
2. ATTACH NAILER TO DECK WITH SUITABLE FASTENERS.
3. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.
4. TOP LAYER OF INSULATION CAN BE EITHER THERMAL INSULATION OR COVERBOARD INSULATION.
5. SLIP SHEET MAY BE REQUIRED BELOW MEMBRANE WHEN OVERLAYING SOME INSULATIONS OR SUBSTRATES.



RAISED CURB DETAIL FOR ROOFTOP AIR HANDLING UNITS AND DUCTS (PREFABRICATED METAL CURB)
1995 TP-13S

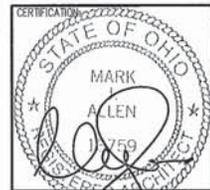
NOT DRAWN TO SCALE

1 Typical NRCA Curb Detail

SCALE: NO SCALE

NEW PAR d/b/a
verizon

Mission 1
Communications
6355 CONSTITUTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: J.M.
CHECKED BY: D.H.

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

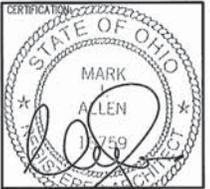
ROOF ACCESS HATCH
CURB DETAIL

AAE PROJECT NO.:

001-1042

SHEET NO.:

A-7



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COMD.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
CHECKED BY: DMI

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

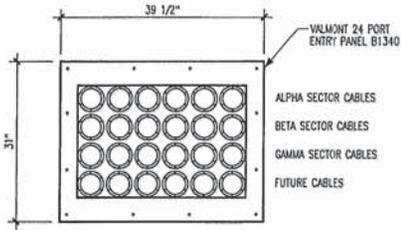
EQUIPMENT SHELTER
PLAN, SECTION AND
SECTION

AME PROJECT NO.:

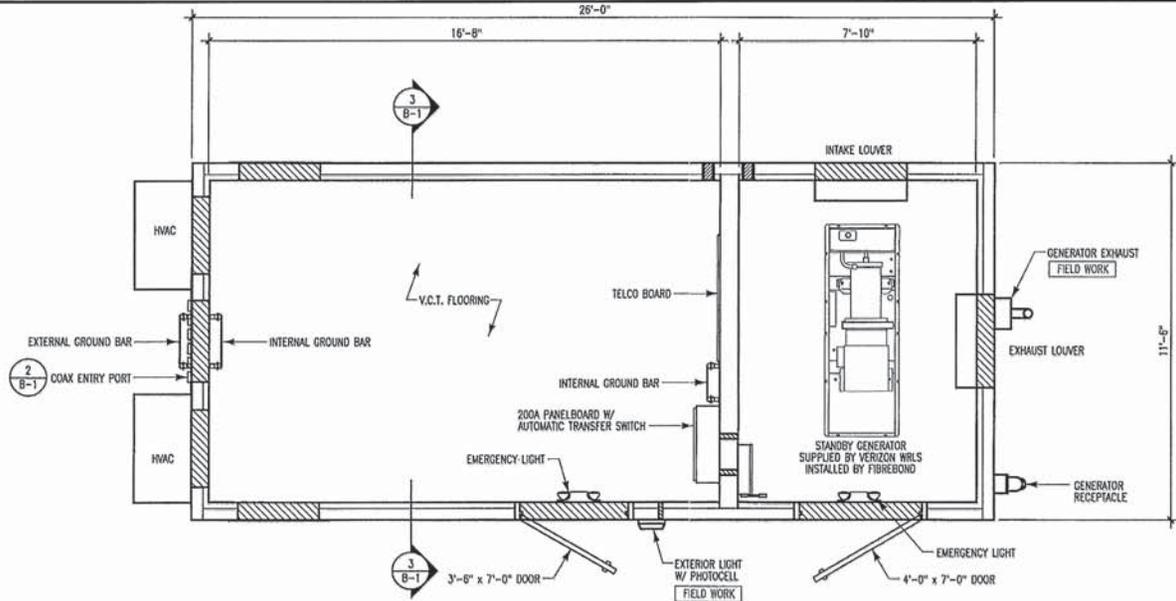
001-1042

SHEET NO.:

B-1

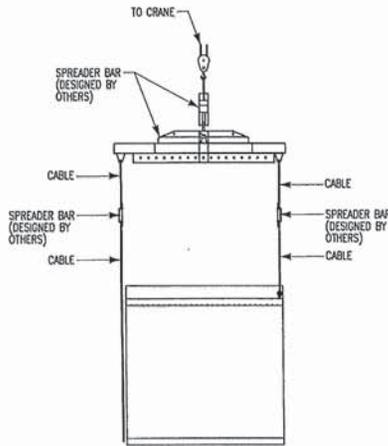


2 Coax Entry Port
1/2" = 1'-0"

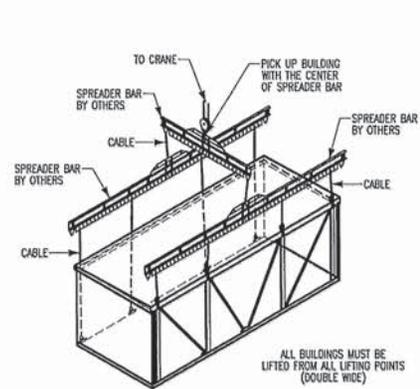


1 Equipment Shelter Floor Plan
1/4" = 1'-0"

NOTE:
CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EXTERIOR ATTACHMENTS FOR GENERATOR (MUFFLER, VENT, ETC.), DOOR CANOPIES, AND SECURITY LIGHTS



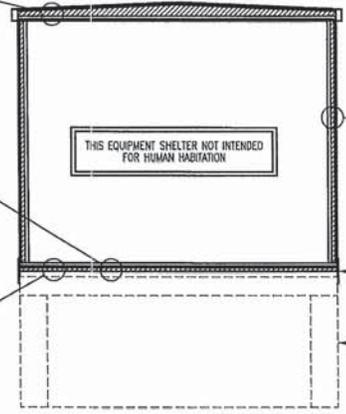
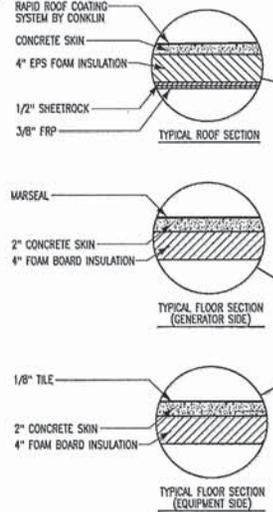
END VIEW



Fibrebond Shelter Lifting Instructions:

1. INSPECT BUILDING UPON DELIVERY FOR DAMAGE DURING TRANSPORTATION.
2. REMOVE LIFTING BRACKETS FROM SHELTER.
3. ATTACH THE DOWN BRACKETS TO SHELTER AND FOUNDATION USING ANCHOR BOLTS.
4. INSTALL AND CAULK ALL ACCESSORIES (EXTERIOR LIGHT, CANOPY, ICE SHIELD, VENT HOODS, GROUND BARS, ETC.).
5. INSPECT ROOF AND ROOF EDGE FOR DAMAGE CAUSED BY OFFLOAD AND REPAIR IF NEEDED.
6. INSTALL BACKER ROD AND CAULK EXTERIOR WALLS AND ROOF.
7. INSTALL FLASHING ON ALL INTERIOR MOD. LINES.
8. MAKE ALL CONDUIT AND CABLE TRAY CROSSOVERS.
9. CLEAN INTERIOR AND COMPLETE ANY TOUCH UP PAINTING AS NEEDED.
10. CHECK DOOR ALARM FOR PROPER OPERATION.
11. CHECK LIGHTING AND AIR CONDITIONING FOR PROPER OPERATION.
12. INSPECT COMPLETE BUILDING FOR COSMETICS.

ALL BUILDINGS MUST BE LIFTED FROM ALL LIFTING POINTS (DOUBLE WIDE)

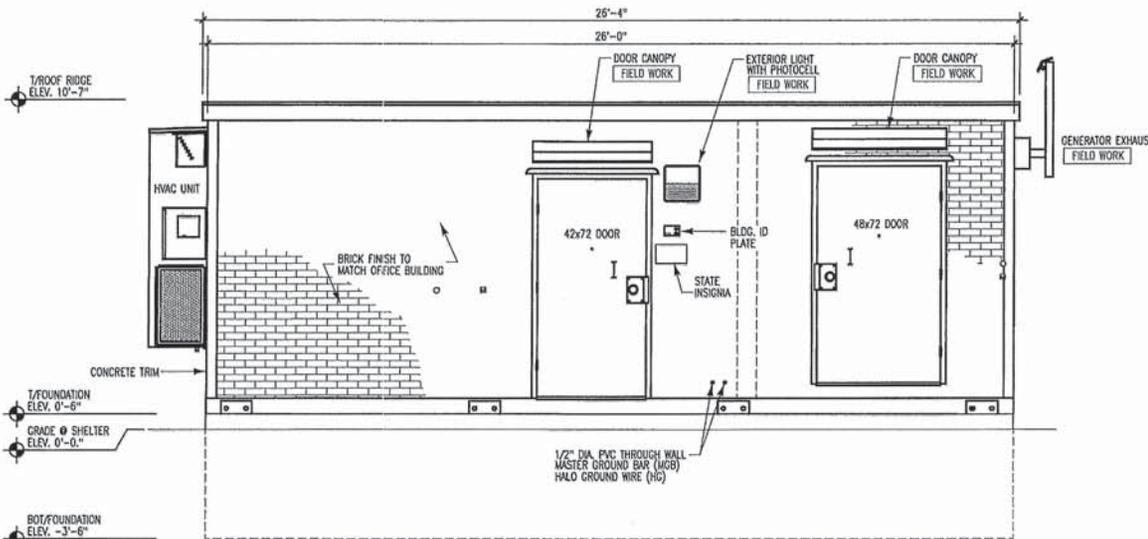


3 Transverse Section
NO SCALE

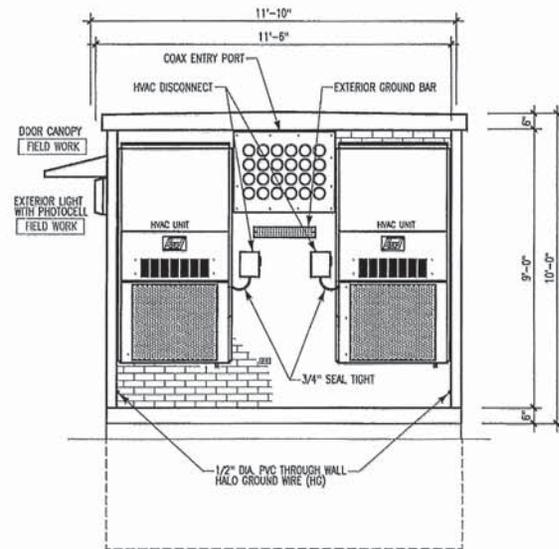
THIS EQUIPMENT SHELTER NOT INTENDED FOR HUMAN HABITATION

Offload Notes:

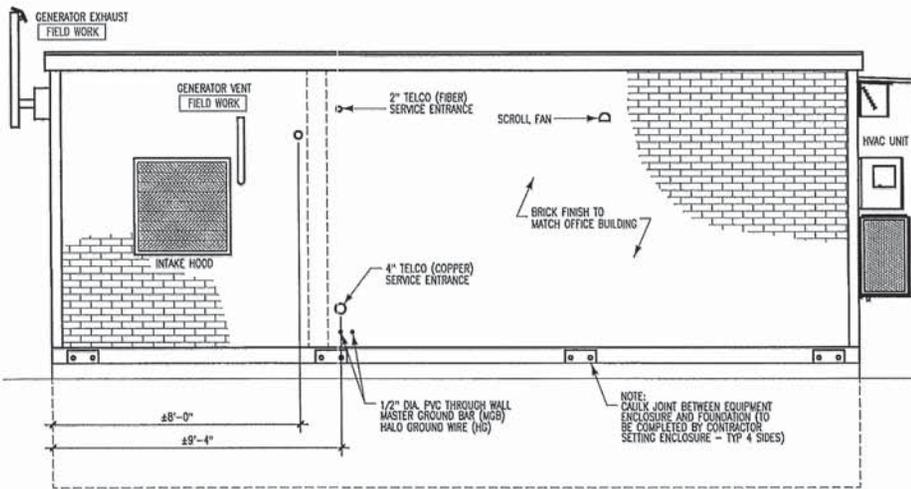
1. EQUIPMENT SHELTER SHALL BE OFFLOADED LEVEL.
2. ALL CABLES, SHACKLING, SPREADER BARS, ETC. SHALL BE DESIGNED AND SUPPLIED BY OTHERS.
3. ALL LIFTING POINTS SHALL BE USED.
4. 1 1/8" MAXIMUM DIAMETER FOR SHACKLES.
5. REMOVE BRACKET AFTER PLACEMENT OF SHELTER AND INSTALL ANCHOR TIE-DOWN PLATES (SHIPPED LOOSE INSIDE SHELTER) AT EACH LOCATION.
6. OFFLOAD SHELTER WITH CABLES IN VERTICAL POSITION. ANGLED POSITION CABLES ARE NOT ACCEPTABLE.



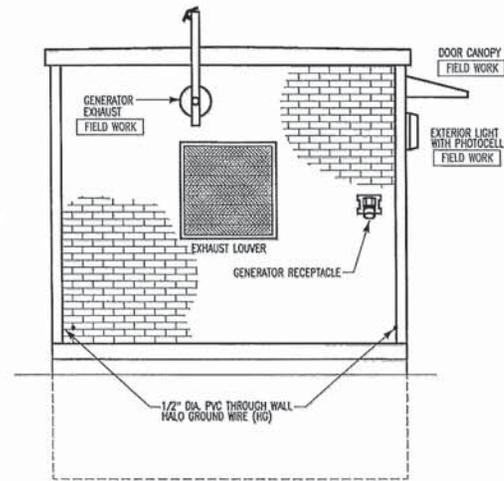
1 Front Wall Elevation
1/4" = 1'-0"
(22x34: 1/2" = 1'-0")



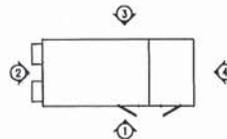
2 End Wall Elevation
1/4" = 1'-0"
(22x34: 1/2" = 1'-0")



3 Rear Wall Elevation
1/4" = 1'-0"
(22x34: 1/2" = 1'-0")



4 End Wall Elevation
1/4" = 1'-0"
(22x34: 1/2" = 1'-0")



NEW PAR d/b/a
verizon

Mission 1
Communications
6355 CONSTRUCTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46824



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: J.M.
CHECKED BY: D.M.

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

EQUIPMENT SHELTER
ELEVATIONS

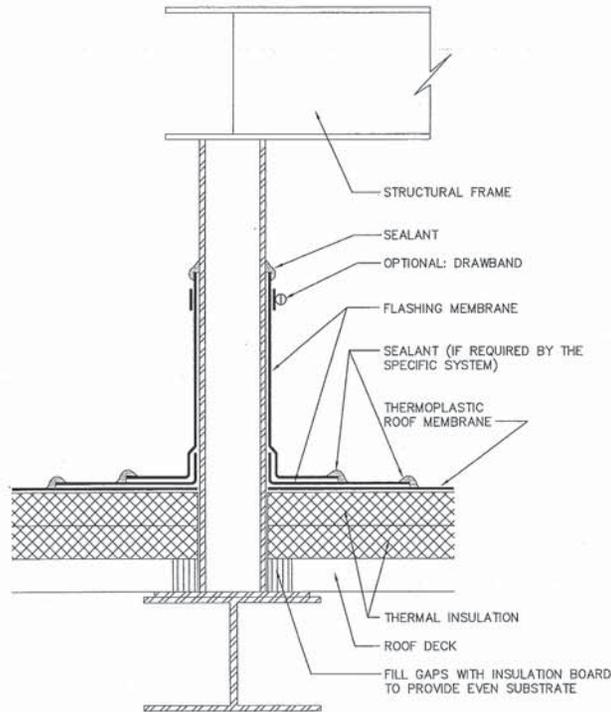
A&E PROJECT NO.:

001-1042

SHEET NO.:

B-2

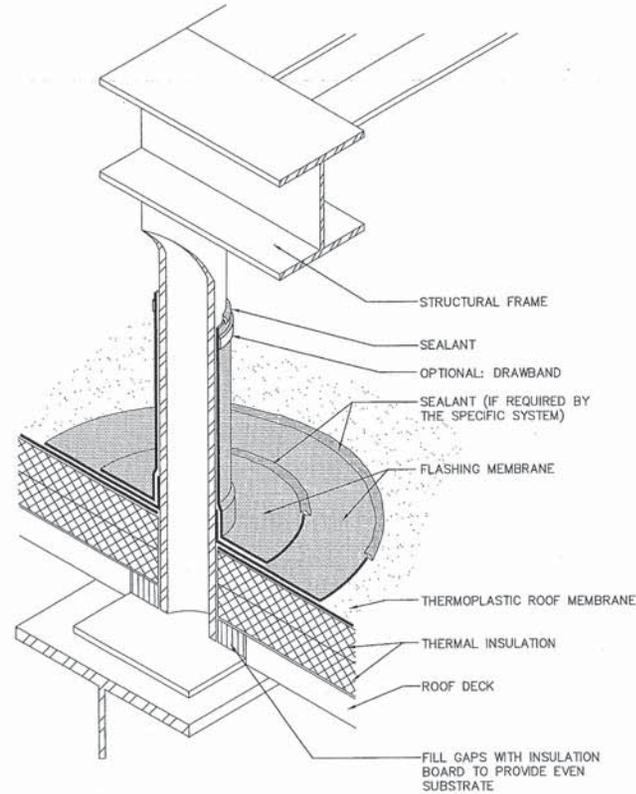
THERMOPLASTIC ROOFING




NATIONAL ROOFING CONTRACTORS ASSOCIATION
 EQUIPMENT SUPPORT STAND LEG
 1995
 NOT DRAWN TO SCALE
 TP-12S

② Typical NRCA Support Penetration Detail
SCALE: NO SCALE

THERMOPLASTIC ROOFING




NATIONAL ROOFING CONTRACTORS ASSOCIATION
 EQUIPMENT SUPPORT STAND LEG
 1995
 NOT DRAWN TO SCALE
 TP-12

① Typical NRCA Support Penetration Detail
SCALE: NO SCALE

NEW PAR d/b/a
verizon

Mission 1
Communications
6355 CONSTITUTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND FOR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLU
CHECKED BY: DJH

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

**ANTENNA SCREENING
SUPPORT PENETRATION
FLASHING DETAILS**

AME PROJECT NO.:

001-1042

SHEET NO.:

S-2

General Notes:

WORK INCLUDES

- THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS VERIZON WIRELESS SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
1. THE PROVISIONS, INSTALLATION, AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH A BUILDING AND SECONDARY GROUNDING, CELLULAR TELEPHONE COMMUNICATIONS TOWER AND CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT.
 2. THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS.
 3. THE PROVISION, INSTALLATION OF CONDUIT AND CONNECTIONS FOR LOCAL TELEPHONE SERVICE.
 4. THE FURNISHING AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUIT(S), CONDUITS, METER SOCKET, AND CONNECTIONS TO THE SERVICE EQUIPMENT WITHIN THE ENCLOSURE.
 5. TWO INCH (2") AND THREE INCH (3") DIAMETER PVC CONDUITS SCHEDULE 40.
 6. ALL PVC CONDUITS SHOULD BE LEFT WITH MINOR PULL CORD FOR FUTURE USE.
 7. EXCAVATION, TRENCHING, AND BACKFILLING FOR CONDUIT(S), CABLE(S), AND EXTERNAL GROUNDING SYSTEM.

CODES, PERMITS, AND FEES

1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY CONTRACTOR.

2. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES: STATE, LOCAL AND NATIONAL, AND THE DESIGN, PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING AUTHORITIES:

N.E.C.	NATIONAL ELECTRIC CODE
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
I.E.E.E.	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
N.E.M.A.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
U.I.	UNDERWRITERS LABORATORIES, INC.
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION

GROUNDING ELECTRODE SYSTEM

1. CONNECTIONS
 - ALL GROUNDING CONNECTIONS SHALL BE MADE BY THE "CADWELD" PROCESS CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, ETC. ALL CABLE TO GROUND RODS, GROUND RODS SPLICES AND LIGHTNING PROTECTION SYSTEM AS INDICATED. GROUND FOUNDATION ONLY AS INDICATED BY PLAN. ALL MATERIALS (USED (MOLDS, WELDING, METAL, TOOLS, ETC.) SHALL BE BY "CADWELD" PROCESS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS.
 - ALL CADWELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF SHERWIN-WILLIAMS GALVITE (WHITE) PAINT BS043 (OR EQUAL) OR SHERWIN-WILLIAMS SILVERBRIT (ALUMINUM) BS9511 (OR EQUAL).
2. ALL ELECTRICAL & MECHANICAL GROUND CONNECTIONS SHALL HAVE ANTI-OXIDANT COMPOUND APPLIED TO CONNECTION
3. FENCE/GATE:
 - GROUND FENCE POSTS WITHIN 6 FEET OF ENCLOSURE AND 25 FEET OF TOWER AS INDICATED ON DRAWINGS. GROUND EACH GATE POST AND CORNER POST. GROUND CONNECTIONS TO FENCE POSTS SHALL BE MADE BY THE "CADWELD" PROCESS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES. ALL OTHER CONNECTIONS FOR THE GROUND GRID SYSTEM SHALL BE MADE BY THE "CADWELD" PROCESS, AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES.

5. UTILITY COMPANY COORDINATION:
 - ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL WORK IS IN ACCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THIS PROJECT AND SHALL DETERMINE FROM THEM ALL EQUIPMENT AND CHARGES WHICH THEY WILL REQUIRE AND SHALL INCLUDE THE COST IN THE BID.
6. GROUND TESTS:
 - GROUND TESTS SHALL BE PERFORMED AS REQUIRED BY VERIZON STANDARD PROCEDURES. GROUND GRID RESISTANCE SHALL NOT EXCEED 5 OHMS. CONTRACTOR SHALL SUBMIT THE GROUND RESISTANCE TEST REPORT AS FOLLOWS:
 1. ONE (1) COPY TO OWNER REPRESENTATIVE
 2. ONE (1) COPY TO ENGINEER
 3. ONE (1) COPY TO KEEP INSIDE EQUIPMENT ENCLOSURE

RACEWAYS AND WIRING

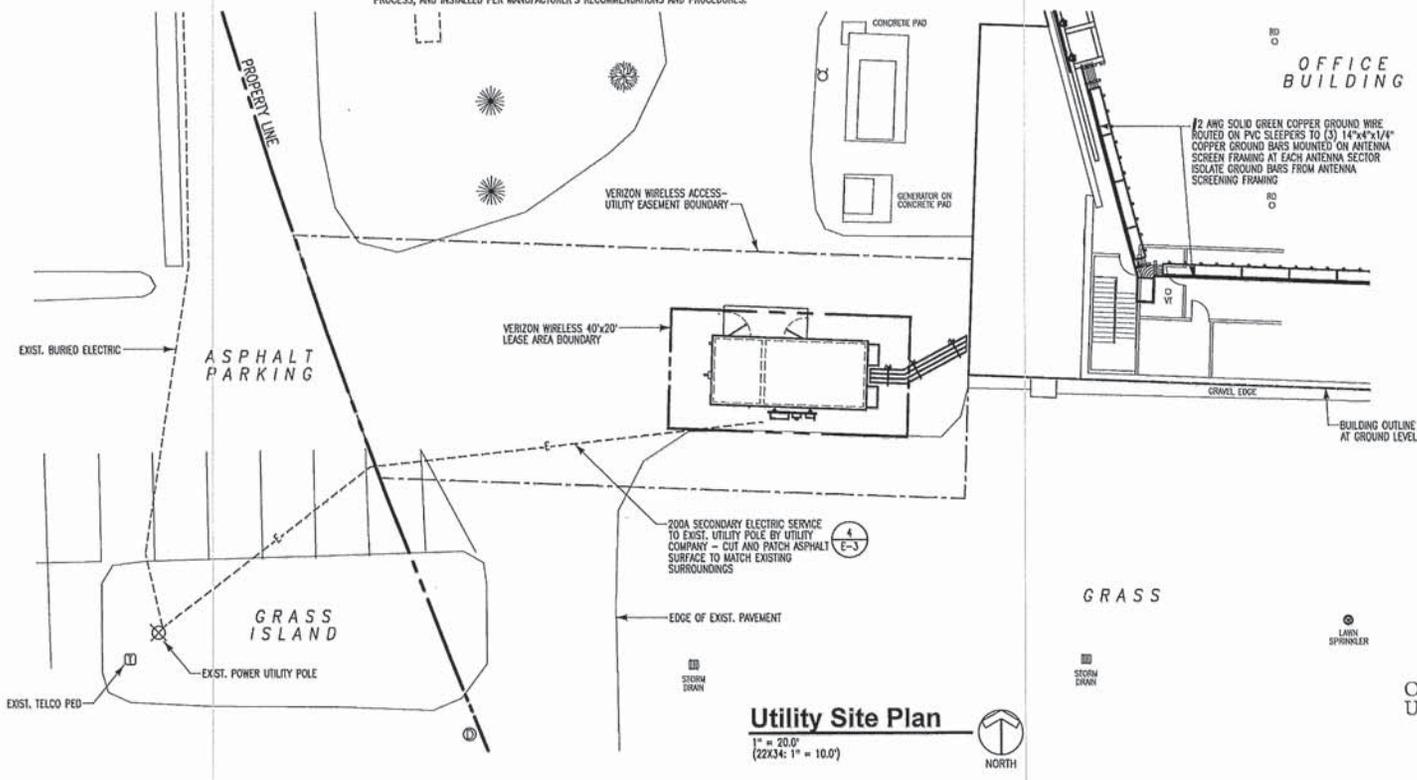
1. WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ENGINEER.
2. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THIN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.
4. FULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WIRING. PROVIDE JUNCTION AND PULLBOXES FOR CONDUIT RUNS WITH MORE THAN (360) DEGREES OF BENDS.
5. PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTUALLY GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
6. ELECTRICAL PANELBOARD SHALL BE FURNISHED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
7. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.

GENERAL NOTES:

SEE DETAILS AND SCHEDULES ON DRAWINGS AND SPECIFICATIONS FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO ENGINEER BEFORE SUBMITTING BID. ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS WIRE DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

COORDINATION WITH UTILITY COMPANY

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR A COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCKETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC. PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY OPTIONAL OR EXCESS FACILITY CHARGES ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY. VERIFY BEFORE BIDDING TO INCLUDE ALL COSTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVERCURRENT PROTECTION DEVICES IN DISTRIBUTION EQUIPMENT AS REQUIRED TO COORDINATE WITH AVAILABLE FAULT CURRENT FROM LOCAL UTILITY COMPANY. ALL GROUNDING RODS PROVIDED BY THE POWER OR TELEPHONE UTILITY COMPANIES MUST BE TIED INTO THE MAIN EXTERNAL GROUND RING.



Utility Site Plan

1" = 20.0'
(22x34; 1" = 10.0')



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
CHECKED BY: DAI
SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

UTILITY SITE PLAN
AND NOTES

AAE PROJECT NO.:

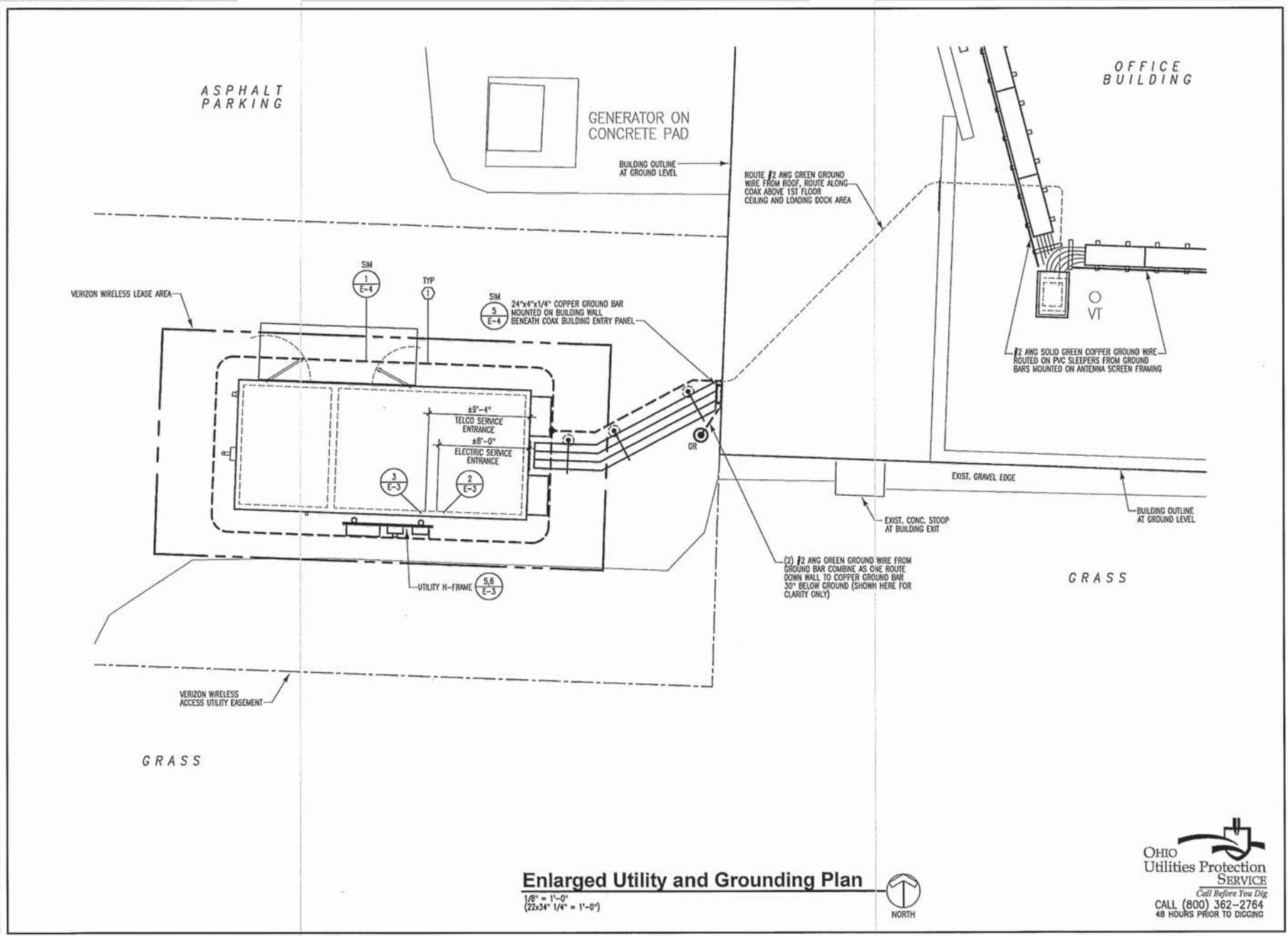
001-1042

SHEET NO.:

E-1



CALL (800) 362-2764
48 HOURS PRIOR TO DIGGING



NEW PAR d/b/a
verizon

Mission 1 Communications
 6355 CONSTITUTION DRIVE, SUITE A
 FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND FOR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
 CHECKED BY: GJM

SITE NAME:
**LAMB CORNERS
 CLMB-233
 CELL SITE**

SITE ADDRESS:
**6775 BOBCAT WAY
 DUBLIN, OH 43016**

SHEET TITLE:
**ENLARGED UTILITY
 AND GROUNDING
 PLAN**

AAE PROJECT NO.:
001-1042

SHEET NO.:
E-2



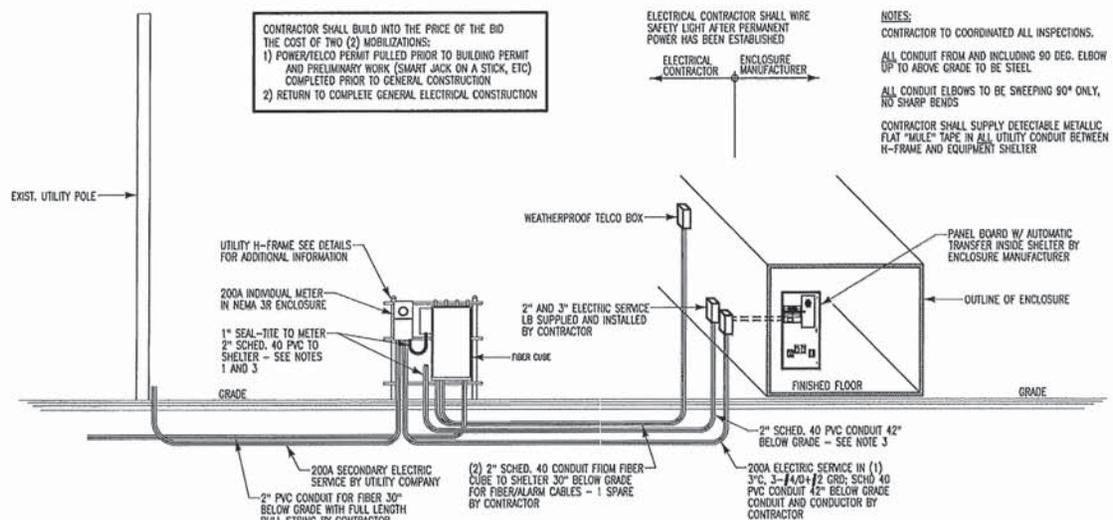
Enlarged Utility and Grounding Plan
 1/8" = 1'-0"
 (22x34" 1/4" = 1'-0")



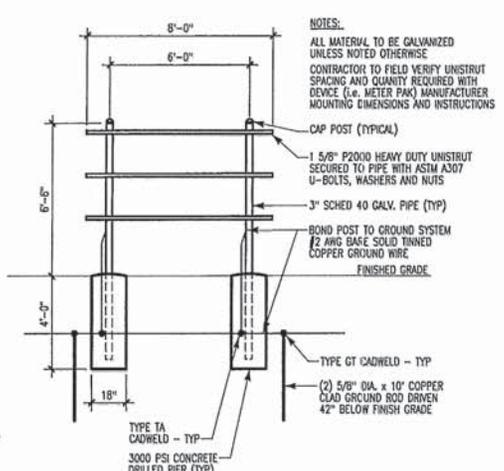
CONTRACTOR SHALL BUILD INTO THE PRICE OF THE BID THE COST OF TWO (2) MOBILIZATIONS:
 1) POWER/TELCO PERMIT FULLED PRIOR TO BUILDING PERMIT AND PRELIMINARY WORK (SMART JACK ON A STICK, ETC) COMPLETED PRIOR TO GENERAL CONSTRUCTION
 2) RETURN TO COMPLETE GENERAL ELECTRICAL CONSTRUCTION

ELECTRICAL CONTRACTOR SHALL WIRE SAFETY LIGHT AFTER PERMANENT POWER HAS BEEN ESTABLISHED

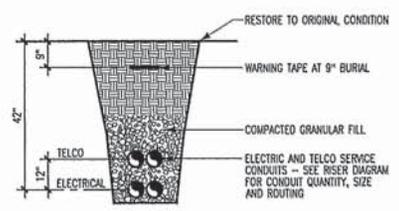
NOTES:
 CONTRACTOR TO COORDINATED ALL INSPECTIONS.
 ALL CONDUIT FROM AND INCLUDING 90 DEG. ELBOW UP TO ABOVE GRADE TO BE STEEL
 ALL CONDUIT ELBOWS TO BE SWEEPING 90° ONLY, NO SHARP BENDS
 CONTRACTOR SHALL SUPPLY DETECTABLE METALLIC FLAT "MALE" TAPE IN ALL UTILITY CONDUIT BETWEEN H-FRAME AND EQUIPMENT SHELTER



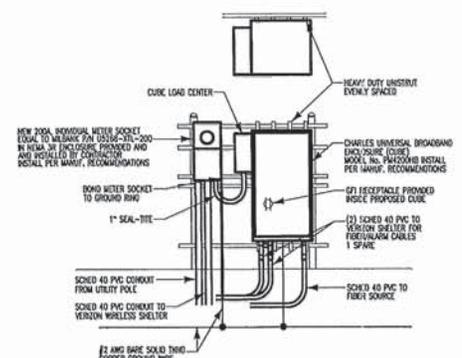
1 Utility Riser Diagram
 NO SCALE



5 Utility H-Frame - Unistrut
 3/16" = 1'-0"
 (22X34: 3/8" = 1'-0")



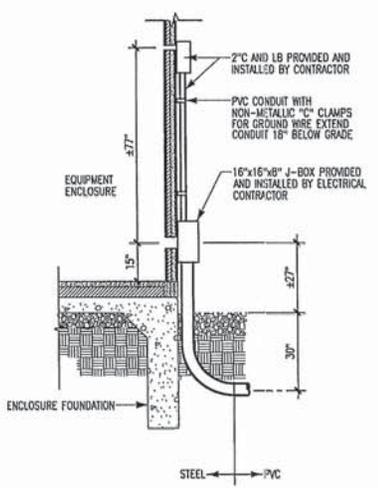
4 Buried Utility Detail
 NO SCALE



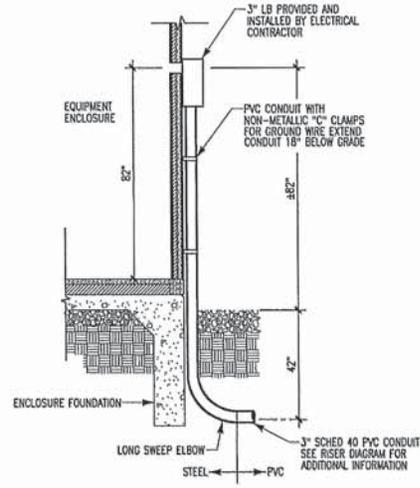
6 Utility H-Frame - Equipment
 3/16" = 1'-0"
 (22X34: 3/8" = 1'-0")

General Notes:

1. CUBE TEMPORARY POWER: THE CONTRACTOR SHALL EXTEND A 1" SEAL-TITE CONDUIT AND CONDUCTORS FROM THE METER MAIN LOAD CENTER TO THE LOAD CENTER LOCATED ON THE CUBE. THE POWER REQUIREMENTS FOR THE CUBE IS A 60 AMP CIRCUIT, 3-#4-1-#10 GRD. FOR RUNS GREATER THAN 10' THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR UPDATED CONDUCTOR SIZE.
2. ONCE THE CUBE IS INSTALLED ON THE METER BOARD AND HAS PERMANENT POWER, THE CONTRACTOR SHALL INSTALL THE BATTERIES INSIDE THE CUBE.
3. CUBE PERMANENT POWER: ONCE THE SHELTER HAS PERMANENT POWER, THE CONTRACTOR SHALL INSTALL A 2" PVC SCHED. 40 CONDUIT AND CONDUCTORS FROM THE SHELTER/ALC TO THE CUBE LOAD CENTER SO THAT IT IS POWERED FROM THE ILC PANEL IN THE SHELTER. THE CONDUCTORS FOR THE PERMANENT POWER CIRCUIT SHALL BE 3-#4-1-#8 GRD. FOR RUNS GREATER THAN 120' THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR UPDATED CONDUCTOR SIZE.
4. ONCE THE CUBE CAN BE POWERED FROM THE SHELTER/ALC, THE CONTRACTOR SHALL DISCONNECT AND REMOVE THE SEAL-TITE AND CONDUCTORS. ALL UNUSED OPENINGS SHALL BE COVERED. THE CONTRACTOR WILL ALSO NEED TO REMOVE THE BREAKER AND COVER THE OPENING ON THE LOAD CENTER (METER MAIN).
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL A 25-PAIR ALARM CABLE FROM THE CUBE TO THE ALARM PANEL INSIDE THE SHELTER.



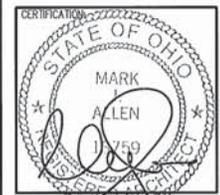
3 Telco Service Entrance
 1/4" = 1'-0"
 (22X34: 1/2" = 1'-0")



2 Electric Service Entrance
 1/4" = 1'-0"
 (22X34: 1/2" = 1'-0")

NEW PAR d/b/a
verizon

Mission 1
 Communications
 6355 CONSTITUTION DRIVE, SUITE A
 FORT WAYNE, INDIANA 46804



RELEASE DATE	07-28-09
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JAM
 CHECKED BY: DJM
 SITE NAME:

**LAMB CORNERS
 CLMB-233
 CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
 DUBLIN, OH 43016

SHEET TITLE:

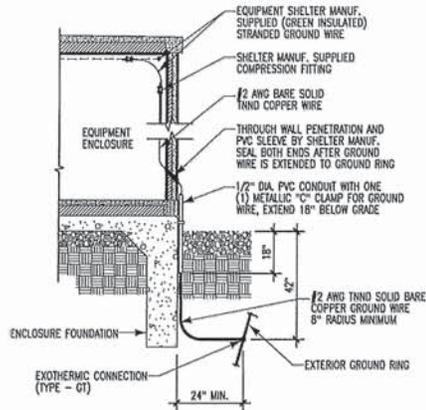
**ELECTRIC & TELCO
 UTILITY DETAILS**

AME PROJECT NO.:

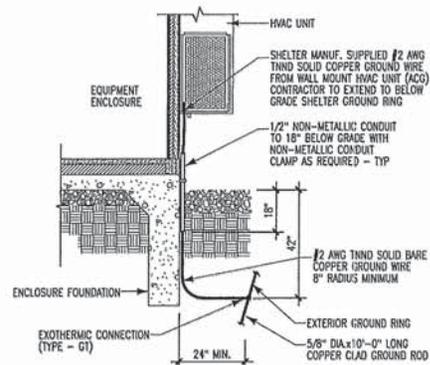
001-1042

SHEET NO.:

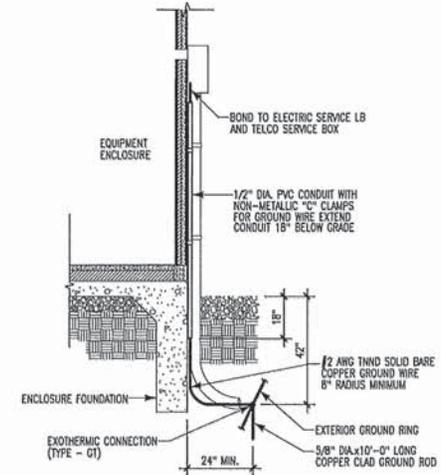
E-3



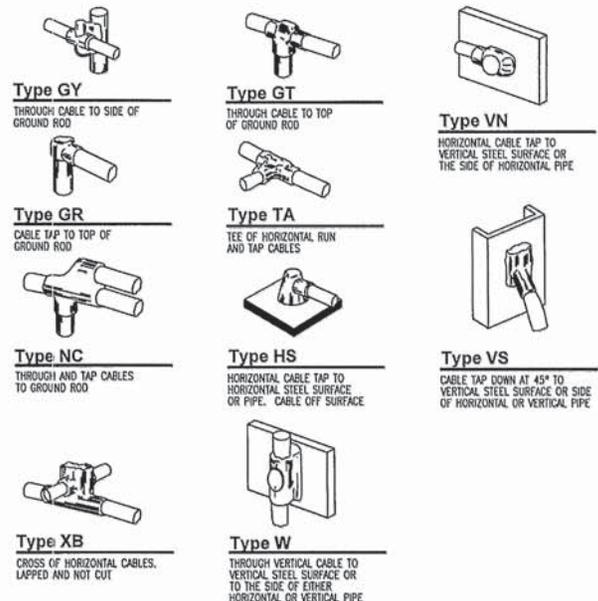
3 Halo (HG) Grounding
 1/4" = 1'-0"
 (22X34: 1/2" = 1'-0")



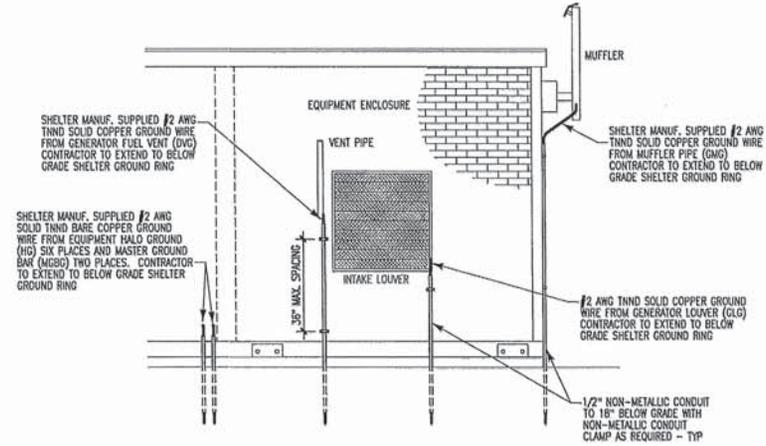
2 HVAC (ACG) / Metallic Components Grounding
 1/4" = 1'-0"
 (22X34: 1/2" = 1'-0")



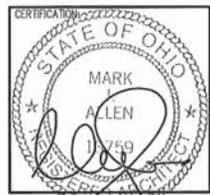
1 Electric and Telco Service Ground
 1/4" = 1'-0"
 (22X34: 1/2" = 1'-0")



5 Exothermic (Cadweld) Connections
 NO SCALE



4 Shelter Grounding Elevation
 1/4" = 1'-0"
 (22X24: 1/2" = 1'-0")



RELEASE DATE	
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
 CHECKED BY: DJH

SITE NAME:
**LAMB CORNERS
 CLMB-233
 CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
 DUBLIN, OH 43016

SHEET TITLE:

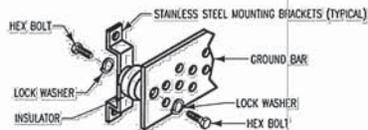
GROUNDING DETAILS

ARE PROJECT NO.:

001-1042

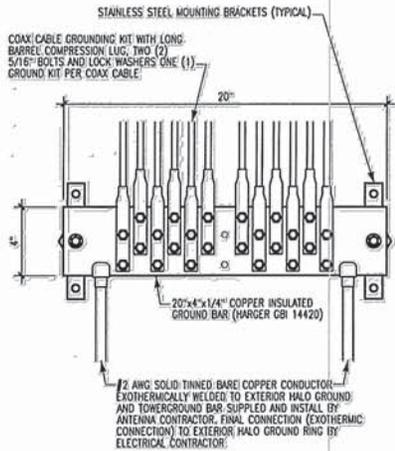
SHEET NO.:

NOTE:
ISOLATORS TO BE USED ON GROUND BAR AT BASE OF TOWER ADJACENT TO ICE BRIDGE ONLY. GROUND BAR AT ANTENNA ELEVATION TO BE ATTACHED TO DIRECTLY TO TOWER STEEL.



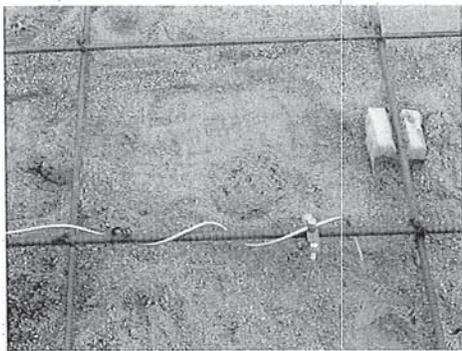
4 Ground Bar Installation

NO SCALE



5 Tower Ground Bar (TGB)

NO SCALE

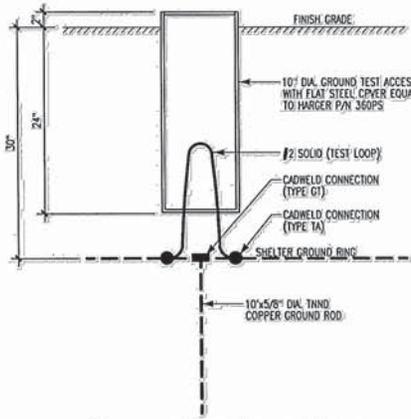


6 Ufer Ground

NO SCALE

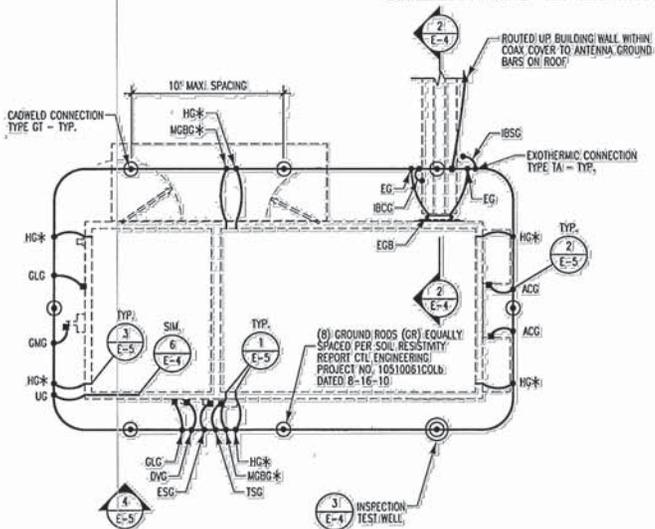
Legend:

- IBCG ICE BRIDGE CHANNEL GROUND: E.C. SHALL FURNISH AND INSTALL (1) #2 AWG BARE SOLID TINNED COPPER GROUND JUMPER WIRE FROM ICE BRIDGE CHANNEL TO ICE BRIDGE POST. CONNECTION AT ICE BRIDGE POST TYPE VS CADWELD, 2-HOLE LUG CONNECTION AT ICE BRIDGE CHANNEL.
 - IBSG ICE BRIDGE SUPPORT GROUND: E.C. SHALL FURNISH AND INSTALL (1) #2 BARE SOLID TINNED COPPER GROUND WIRE FROM ICE BRIDGE SUPPORT COLUMN TO GROUNDING RING. BOTH CONNECTIONS ARE CADWELD.
 - MGBG MASTER GROUND BAR (MGB) GROUND: E.C. TO EXTEND (2) SHELTER MANUF. SUPPLIED AND INSTALLED #2 AWG BARE SOLID TINNED COPPER GROUND WIRES THROUGH PROVIDED SHELTER PENETRATION TO GROUNDING RING. CONNECTION TO GROUND RING IS CADWELD.
 - ACG AIR CONDITIONER GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM CABINET OF HVAC UNIT TO GROUNDING RING. CONNECTION TO CABINET IS MECHANICAL, CONNECTION TO GROUNDING RING IS CADWELD (TYPICAL OF 2).
 - TSG TELCO SERVICE GROUND: E.C. TO SUPPLY AND INSTALL (1) #2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM TELCO SERVICE BOX IN 1/2" NON-METALLIC CONDUIT TO GROUND RING. CONNECTION TO TELCO SERVICE BOX IS MECHANICAL, CONNECTION TO GROUND RING IS CADWELD.
 - ESG ELECTRICAL SERVICE GROUND: E.C. TO SUPPLY AND INSTALL (1) #2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM ELECTRIC SERVICE LB IN 1/2" NON-METALLIC CONDUIT TO GROUND RING. CONNECTION TO LB IS MECHANICAL, CONNECTION TO GROUND RING IS CADWELD.
 - EOB EXTERNAL GROUND BAR: SHELTER MANUF. SUPPLIED AND INSTALLED 20"x4"x1/4" COPPER GROUND BAR ON EXTERIOR OF SIDEWALL BELOW COAX ENTRY PORT.
 - EG EXTERIOR GROUND: E.C. TO PROVIDE AND INSTALL (2) #2 AWG BARE SOLID TINNED COPPER GROUND WIRES FROM EXTERIOR GROUND BAR TO GROUND RING. CONNECTION AT GROUND BAR AND GROUND RING TO BE CADWELD.
 - HG HALO GROUND: E.C. TO EXTEND SIX (6) SHELTER MANUF. SUPPLIED AND INSTALLED #2 AWG BARE SOLID TINNED COPPER GROUND WIRES THROUGH PROVIDED SHELTER PENETRATION TO GROUNDING RING. CONNECTION TO GROUND RING IS CADWELD.
 - UG UFER GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM CONCRETE SHELTER RE-INFORCING BAR TO GROUND RING PER NEC 250.52A. CONNECTION AT REBAR CAN BE MECHANICAL. CONNECTION TO GROUND RING IS CADWELD.
 - GLG GENERATOR LOUVER GROUND: E.C. TO PROVIDE AND INSTALL (1) #2 AWG SOLID TINNED COPPER GROUND WIRE FROM GENERATOR LOUVER FRAME TO GROUNDING RING. CONNECTION TO LOUVER FRAME IS MECHANICAL, CONNECTION TO GROUNDING RING IS CADWELD.
 - GMG GENERATOR MUFFLER GROUND: E.C. TO EXTEND SHELTER MANUF. SUPPLIED AND INSTALLED #2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM GENERATOR MUFFLER TO GROUNDING RING. CONNECTION TO GROUND RING IS CADWELD.
 - DVG DIESEL VENT GROUND: E.C. TO EXTEND SHELTER MANUF. SUPPLIED AND INSTALLED #2 AWG BARE SOLID TINNED COPPER GROUND WIRE FROM DIESEL FUEL VENT PIPE TO GROUNDING RING. CONNECTION TO GROUND RING IS CADWELD.
 - GR 5/8" DIA x 10'-0" TINNED COPPER CLAD STEEL GROUND ROD (HARGER 5810) DRIVEN VERTICAL TO 42" BELOW GRADE. SPACING OF THE GROUND RODS SHALL BE MAXIMUM 10'. ALL CONNECTIONS TO BE CADWELD.
- * SHELTER PENETRATION: SEAL BOTH SIDES OF SHELTER PENETRATION WITH SILICONE SEALANT.
- NOTE: ALL GROUND LEADS AT TOWER, ICE BRIDGE SUPPORT POSTS, FENCE POSTS, GROUND BARS, ETC. TO BE ROUTED IN 1/2" DIA. FLEXIBLE NON-METALLIC PVC CONDUIT. GROUND LEADS AT SHELTER TO BE ROUTED IN 1/2" DIA. RIGID PVC CONDUIT SECURED TO SHELTER WALL OR SHELTER FOUNDATION WITH AT LEAST ONE (1) NON-METALLIC CONDUIT CLAMP (36" MAX. SPACING). CONDUIT TO BE 4" MAX. FROM CADWELD TO 18" BELOW FINISH GRADE.



3 Grounding Inspection Handhole Detail

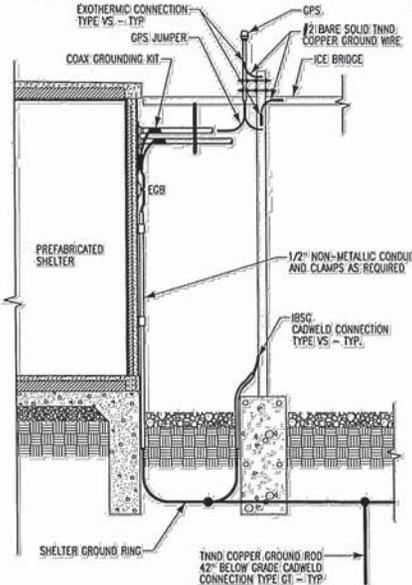
3/4" = 1'-0" (22X34) 1'-1/2" = 1'-0"



1 Shelter and Tower Grounding Schematic

1/8" = 1'-0" (22X34) 1/4" = 1'-0"

CONTRACTOR TO ADJUST FOR SITE CONDITIONS



2 Ice Bridge / Tower Grounding Schematic

1/4" = 1'-0" (22X34) 1/2" = 1'-0"

CONTRACTOR TO ADJUST FOR SITE CONDITIONS

NEW PAR d/b/a
verizon

Mission 1 Communications
6355 CONSTITUTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
08-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JLM
CHECKED BY: DAH

SITE NAME:

**LAMB CORNERS
CLMB-233
CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

GROUNDING SCHEMATICS & DETAILS

AME PROJECT NO.:

001-1042

SHEET NO.:

E-4

GENERAL

THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

DIVISION 1: GENERAL REQUIREMENTS

SECTION 01700 - PROJECT CLOSEOUT

PART 1 - GENERAL

- OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES, INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES AND SIMILAR RELEASES.
- SUBMIT RECORD DRAWINGS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
- COMPLETE FINAL CLEAN UP REQUIREMENTS, INCLUDING TOUCH-UP PAINTING, TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES.

PART 2 - FINAL CLEANING

- COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CONSTRUCTION OF COMPLETION.
 - CLEAN THE PROJECT SITE, YARD AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREAS, OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED, TO A SMOOTH EVEN-TEXTURED SURFACE.
 - REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE.
 - REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
 - CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES.
 - REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, EQUIPMENT ENCLOSURE, MANHOLES, AND SIMILAR SPACES.
 - REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
 - TOUCH-UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CAN NOT SATISFACTORILY BE REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING ELECTRICAL NAME PLATES.
 - LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
 - DUST-OFF ALL EQUIPMENT, INCLUDING BATTERY PACKS, WITHIN EQUIPMENT ENCLOSURE.
 - STRIP, WASH AND WAX FLOOR WITHIN EQUIPMENT ENCLOSURE WITH NON-STATIC WAX.
- REMOVE OF PROTECTION: REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.

DIVISION 2: SITE WORK

SECTION 02200 - EARTHWORK AND DRAINAGE

PART 1 - GENERAL

- WORK INCLUDED: SEE SITE PLAN
- DESCRIPTIONS
ACCESS DRIVE WITH TURNAROUND AREA, LEASE AREA, AND IF APPLICABLE UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.
- QUALITY ASSURANCE
 - APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (AS NEEDED).
 - APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED).
 - PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
- SEQUENCING
 - CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY CONSTRUCTION.
 - COMPLETELY GRUB THE ACCESS DRIVE WITH TURNAROUND, UNDERGROUND UTILITY EASEMENTS, (IF APPLICABLE) AND LEASE AREA PRIOR TO FOUNDATION CONSTRUCTION, PLACEMENT OF BACKFILL AND SUB-BASE MATERIAL.
 - CONSTRUCT TEMPORARY CONSTRUCTION AREA ALONG ACCESS DRIVE.
 - BRING THE LEASE AREA AND ACCESS DRIVE WITH TURNAROUND TO BASE COURSE ELEVATION PRIOR TO INSTALLING FOUNDATION.
 - APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS.
 - GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA AND ACCESS DRIVE WITH TURNAROUND TO BASE COURSE ELEVATION, WATER TO ENSURE GROWTH.
 - REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION ZONE TO AN AUTHORIZED AREA OR AS DIRECTED BY PROJECT MANAGER.
 - AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO STONE SURFACES.
- SUBMITTALS
 - AFTER CONSTRUCTION
IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPE PLAN UNDER NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD (REFER TO PLANS FOR LANDSCAPING REQUIREMENTS).

- AFTER CONSTRUCTION
 - MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL STERILIZER.
 - MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER
 - LANDSCAPING WARRANTY STATEMENT.
- WARRANTY
 - IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL GUARANTEE ALL DAMAGE AND RESTORE AREA AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SURROUNDINGS.
 - SOIL STERILIZATION APPLICATION TO GUARANTEE VEGETATION FREE ROAD AND SIDE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
 - DISTURBED AREAS WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
 - LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

PART 2 - PRODUCTS

1. MATERIALS

- SOIL STERILIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:

TOTAL PRODUCT 910 EPA 10292-7	PHASAR CORPORATION P.O. BOX 5123 DEARBORN, MI 48128 (313) 563-8000
----------------------------------	---
 - AMBIUSH HERBICIDE
EPA REGISTERED
 - FRAMAR INDUSTRIAL PRODUCTS
1435 MORRIS AVE.
UNION, NJ 07083
(800) 526-4924
- ROAD AND SITE MATERIALS SHALL CONFORM TO MOST SPECIFICATIONS FILL MATERIAL (UNLESS OTHERWISE NOTED) - ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF HIGHWAY AND TRANSPORTATION STANDARD SPECIFICATIONS.
 - SOIL STABILIZER FABRIC SHALL BE MIRAFI - 500X.

PART 3 - EXECUTION

1. INSPECTIONS

- LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
- PREPARATION
 - CLEAR TREES, BRUSH AND DEBRIS FROM LEASE AREA, ACCESS DRIVE WITH TURN-AROUND AND UNDER GROUND UTILITY EASEMENTS AS REQUIRED FOR CONSTRUCTION.
 - RIPRAP TO OTHER EXCAVATION AND CONSTRUCTION, GRUB ORGANIC MATERIAL TO A MINIMUM OF SIX (6) INCHES BELOW GRADE.
 - UNLESS OTHERWISE INSTRUCTED BY VERIZON WIRELESS, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.
 - PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL.
 - WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.

2. INSTALLATION

- GRADE OR FILL THE LEASE AREA AND ACCESS DRIVE WITH TURNAROUND AS REQUIRED IN ORDER THAT UPON DISTRIBUTION OF SPOOLS, RESULTING FROM EXCAVATIONS, THE RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE COURSE. ELEVATIONS ARE TO BE CALCULATED FROM BENCHMARK, FINISH GRADES, OR INDICATED SLOPES.
- CLEAR EXCESS SPOOLS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY VERIZON WIRELESS CONSTRUCTION MANAGER AND AGREED TO BY LANDOWNER.
- BRING THE ACCESS DRIVE WITH TURNAROUND TO BASE COURSE ELEVATION TO FACILITATE CONSTRUCTION AND OBSERVATION DURING CONSTRUCTION OF THE SITE.
- AVOID CREATING DEPRESSIONS WHERE WATER MAY POOL.
- E. THE CONTRACT SHALL INCLUDE GRADING, BANKING, AND DITCHING, UNLESS OTHERWISE INDICATED.
- WHEN IMPROVING AN EXISTING ACCESS DRIVE, GRADE THE EXISTING DRIVE TO REMOVE ANY ORGANIC MATTER AND SMOOTH THE SURFACE BEFORE PLACING FILL OR STONE.
- PLACE FILL OR STONE IN SIX (6) INCH MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
- H. THE TOP SURFACE COURSE SHALL EXTEND A MINIMUM OF ONE (1) FOOT BEYOND THE SITE FENCE (UNLESS OTHERWISE NOTED) AND SHALL COVER THE AREA AS INDICATED.
- I. APPLY RIPRAP TO THE SIDE SLOPES OF ALL FENCED SITE AREAS, PARKING AREAS, AND ALL OTHER SLOPES GREATER THAN 2:1.
- J. APPLY RIPRAP TO THE SIDES OF DITCHES OR DRAINAGE SWALES.
- K. RIPRAP ENTIRE DITCH FOR SIX (6) FEET IN ALL DIRECTIONS AT CULVERT OPENINGS.
- L. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAPPED.
- M. UNDER NO CIRCUMSTANCES WILL DITCHES, SWALES, OR CULVERTS BE PLACED SO THAT THEY DIRECT WATER TOWARDS, OR PERMIT STANDING WATER IMMEDIATELY ADJACENT TO SHELTER OR EQUIPMENT. IF DESIGNS OR ELEVATIONS ARE IN CONFLICT WITH THIS, ADVISE CONSTRUCTION MANAGER IMMEDIATELY.
- N. IN DITCHES WITH SLOPES GREATER THAN 10% AND UNDESIRABLE HEADWALLS IN THE DITCH AT CULVERT ENTRANCES, POSITION THE HEADWALL AT AN ANGLE NO GREATER THAN 60° OFF THE DITCH LINE. RIPRAP THE UPSTREAM SIDE OF THE HEADWALL AS WELL AS THE DITCH FOR SIX (6) FEET ABOVE THE CULVERT ENTRANCE.
- O. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEED TO EVEN THE SURFACE AND LOOSEN THE SOIL.
- P. SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
- Q. ENSURE GROWTH OF SEEDS AND LANDSCAPED AREAS, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO RENOVATE THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.

4. FIELD QUALITY CONTROL

- COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.
- PROTECTION
 - PROTECT SEEDS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1-2 INCHES, STAKE AND TIE DOWN AS REQUIRED. USE OF EROSION CONTROL MESH OR MULCH NET WILL BE AN ACCEPTABLE ALTERNATE.
 - ALL TREES PLACED IN CONJUNCTION WITH A LANDSCAPE CONTRACT WILL BE WRAPPED, TIED WITH HOSE PROTECTED WIRE, AND SECURED TO 2" x 2" x 4'-0" WOODEN STAKES EXTENDING TWO-FEET INTO THE GROUND ON FOUR SIDES OF THE TREE.
 - PROTECT ALL EXPOSED AREAS AGAINST WASHOUTS AND SOIL EROSION. PLACE STRAW BALES AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS. WHERE THE SITE OR ROAD AREAS HAVE BEEN ELEVATED IMMEDIATELY ADJACENT TO THE RAIL LINE, STAKE EROSION CONTROL FABRIC FULL LENGTH IN THE SWALE TO PREVENT CONTAMINATION OF THE RAIL BALLAST. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS.

SECTION 02800 - FENCING AND GATES(1)

PART 1 - GENERAL

- WORK INCLUDED
SEE PLAN FOR SITE AND LOCATION OF FENCE AND GATE(S).
- QUALITY ASSURANCE
ALL STEEL MATERIALS UTILIZED IN CONJUNCTION WITH THIS SPECIFICATION WILL BE GALVANIZED OR STAINLESS STEEL. WEIGHT OF ZINC COATING ON THE FABRIC SHALL NOT BE LESS THAN 12 OUNCES PER SQUARE FOOT OF MATERIAL COVERED. POSTS SHALL BE HOT-DIPPED IN GRADE "E" ZINC, 18 OUNCES PER SQUARE FOOT.
- SEQUENCING
IF THE SITE AREA HAS BEEN BROUGHT UP TO SURFACE COURSE ELEVATION (PRIOR TO THE FENCE CONSTRUCTION), FENCE POST EXCAVATION SPOOLS MUST BE CONTROLLED TO PRECLUDE CONTAMINATION OF SAID SURFACE COURSE.
- SUBMITTALS
 - MANUFACTURER'S DESCRIPTIVE LITERATURE.
 - CERTIFICATE OR STATEMENT OF COMPLIANCE WITH THE SPECIFICATIONS.

PART 2 - PRODUCTS

- FENCE MATERIAL
 - ALL FABRIC WIRE, RAILS, HARDWARE, AND OTHER STEEL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
 - FABRIC SHALL BE SEVEN-FOOT HIGH OR TO MATCH EXISTING FENCE TWO" CHAIN LINK MESH OF NO. 9 GAUGE (0.148") WIRE.
 - IF THE FABRIC SHALL HAVE A KNUCKLED FINISH FOR THE TOP SELVAGES. FABRIC SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A-392 CLASS 1.
 - BARBED WIRE SHALL BE DOUBLE-STRAND, 12-1/2 GAUGE TWISTED WIRE, WITH 14-GAUGE, 4-POINT ROUND BARBS SPACED ON FIVE" CENTERS.
 - ALL POSTS SHALL BE SCHEDULE - 40 MECHANICAL SERVICE PIPE AND SHALL BE TYPE 1 ASTM A-128 AND OF THE FOLLOWING DIA.

LINE CORNER	2 1/2" SCHEDULE 40 (3" O.D.)
GATE	4" SCHEDULE 40 (4 1/2" O.D.)
 - GATE POSTS SHALL BE EXTENDED 12 INCHES, INCLUDING DOME CAP, TO PROVIDE FOR ATTACHMENT OF BARBED WIRE.
 - ALL TOP AND GATE RAILS SHALL BE 1 5/8" DIA. SCHEDULE - 40 MECHANICAL-SERVICE PIPE.
 - GATE FRAMES AND BRACES SHALL BE 2" DIA. SCHEDULE 40 MECHANICAL-SERVICE PIPE. FRAMES SHALL HAVE WELDED CORNERS.
 - GATE FRAMES SHALL HAVE A FULL-HEIGHT VERTICAL BRACE, AND A FULL-WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS.
 - GATE HINGES SHALL BE MERCHANTS METAL MODEL 64386 HINGE ADAPTER WITH MODEL 6409, 180-DEGREE ATTACHMENT.
 - J. THE GUIDE (LATCH ASSEMBLY) SHALL BE HEAVY INDUSTRIAL DOUBLE GATE LATCH, SEE DETAIL.
 - K. LATCHES AND STOPS SHALL BE PROVIDED FOR ALL GATES.
 - L. PLUNGER ROLL COMPLETE WITH RECEPTOR TO BE PROVIDED AT THE INACTIVE LEAF OF ALL DOUBLE GATE INSTALLATIONS.
 - M. ALL STOPS SHALL HAVE KEEPERS CAPABLE OF HOLDING THE GATE LEAF IN THE OPEN POSITION.
 - N. A NO. 7 GAUGE ZINC COATED TENSION WIRE SHALL BE USED AT THE BOTTOM OF THE FABRIC, TERMINATED WITH BAND CLIPS AT CORNER AND GATE POSTS.
 - O. A 50X BY 1 1/2" DIA. EYEBOLT TO HOLD TENSION WIRE SHALL BE PLACED AT LINE POSTS.
 - P. ALL FABRIC BARS SHALL BE 3/16" BY 3/4" OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
 - Q. ALL CORNER GATE AND PANELS SHALL HAVE A 3/8" TRUSS ROLL WITH TURNBUCKLES.
 - R. ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARBED WIRE SUPPORTING ARM. GATE POSTS SHALL HAVE A DOME CAP.
 - S. OTHER HARDWARE INCLUDES BUT MAY NOT BE LIMITED TO THE CLIPS, BAND CLIPS AND TENSION BAND CLIPS.
 - T. BARBED WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS.
 - U. BARBED WIRE SUPPORT ARMS SHALL BE PRESSED STEEL COMPLETE WITH SET BOLT AND LOCK WIRE IN THE ARM.
 - V. ALL CAPS SHALL BE MALLEABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE.
 - W. WHERE THE USE OF CONCERNITINA HAS BEEN SPECIFIED, 24" DIA. COIL, BARBED TUBE, STAINLESS STEEL, CYCLONE FENCE MODEL G8P TO TYPE III SHALL BE FURNISHED. IT SHALL BE SUPPORTED ABOVE THE TOP RAIL BY USE OF SIX (6) WIRE BARBED WIRE ARMS POSITIONED ATOP EACH LINE/CORNER POST.

PART 3 - EXECUTION

- INSPECTION
TO CONFIRM PROPER DEPTH AND DIA. OF POST HOLE EXCAVATIONS. ALL POST HOLES WILL BE EXCAVATED AS PER CONSTRUCTION DOCUMENTS.
- INSTALLATION
 - FOUNDATIONS SHALL HAVE A MINIMUM SIX (6) INCH CONCRETE COVER UNDER POST.
 - ALL FENCE POSTS SHALL BE VERTICALLY PLUMB; ONE QUARTER (1/4) INCH AT CORNER POSTS, GATE POSTS, AND SIDES OF GATE FRAME. FABRIC SHALL BE ATTACHED WITH STRETCHER AND TENSION BAND-CLIPS AT FIFTEEN(15) INCH INTERVALS.
 - AT LINE POSTS, FABRIC SHALL BE ATTACHED WITH BAND-CLIPS AT FIFTEEN (15) INCH INTERVALS.
 - FABRIC SHALL BE ATTACHED TO BRACE RAILS, TENSION WIRE AND TRUSS ROOFS WITH THE CLIPS AT TWO (2) FOOT INTERVALS.
 - A MAXIMUM GAP OF ONE INCH WILL BE PERMITTED BETWEEN THE CHAIN LINE FABRIC AND THE FINAL GRADE.
 - GATE SHALL BE INSTALLED SO LOCKS ARE ACCESSIBLE FROM BOTH SIDES.
 - GATE HINGE BOLTS SHALL HAVE THEIR THREADS PEENED OR WELDED TO PREVENT UNAUTHORIZED REMOVAL.
 - CONCRETE TO BE A MINIMUM OF 4,000 PSI AT 7 DAYS. CEMENT SHALL EXCEED ASTM C150, TYPE IIA.
- PROTECTION
UPON COMPLETION OF ERECTION, INSPECT FENCE MATERIAL AND PAINT FIELD CUTS OR GALVANIZING BREAKS WITH ZINC-BASED PAINT, COLOR TO MATCH THE GALVANIZED METAL.
APPLICABLE STANDARDS
ASTM-A120 SPECIFICATION FOR PIPE, STEEL BLACK AND HOT-DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS, FOR ORDINARY USES.
ASTM-A123 ZINC (HOT-DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS.
ASTM-A153 STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE.
ASTM-A392 SPECIFICATION FOR ZINC-COATED STEEL CHAIN LINK FENCE FABRIC.
ASTM-A491 SPECIFICATION FOR ALUMINUM-COATED STEEL CHAIN LINK FENCE FABRIC.
ASTM-A525 STANDARD SPECIFICATION FOR STEEL SHEET ZINC COATED (GALVANIZED) BY THE HOT-DIPPED PROCESS.
ASTM-A570 SPECIFICATION FOR HOT-ROLLED CARBON STEEL SHEET AND STRIP. STRUCTURAL QUALITY.
ASTM-A535 SPECIFICATION FOR ALUMINUM COATED STEEL BARBED WIRE.
FEDERAL SPECIFICATION RR-F-191- FENCING, WIRE AND POST METAL (AND GATES, CHAIN LINK FENCE FABRIC, AND ACCESSORIES)

DIVISION 3: CONCRETE

SECTION 03000 - BASIC CONCRETE MATERIALS AND METHODS

PART 1 - GENERAL

- WORK INCLUDED
FORMWORK, REINFORCEMENT, ACCESSORIES, CAST-IN-PLACE CONCRETE, FINISHING, AND CURING.
- INSPECTIONS
 - CONTRACTOR IS RESPONSIBLE FOR SCHEDULING BUILDING DEPARTMENT INSPECTIONS REQUIRED FOR HIS SCOPE OF WORK.
 - ALL REINFORCING STEEL SHALL BE INSPECTED AND APPROVED BY THE VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO PLACEMENT OF CONCRETE.
 - THE VERIZON WIRELESS CONSTRUCTION MANAGER SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS.
- QUALITY ASSURANCE
 - CONSTRUCT AND ERECT CONCRETE FORMWORK IN ACCORDANCE WITH ACI 301 AND ACI 318.
 - PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH ACI 301, ACI 318, AND ACI 318A.
 - PERFORM CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH ACI 301, ACI 318, AND ACI 318-90.
 - OPEN FOUNDATION TRENCHES SHALL BE INSPECTED BY VERIZON WIRELESS CONSTRUCTION MANAGER PRIOR TO PLACEMENT OF CONCRETE.
- SUBMITTALS
SUBMIT CONCRETE MIX AND REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BY VERIZON WIRELESS CONSTRUCTION MANAGER/ENGINEER. THE SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF TWO (2) CONCRETE MIX DESIGN INFORMATION SHEETS AND TWO (2) BLUELINE DRAWINGS FOR REINFORCING STEEL.

PART 2 - PRODUCTS

- REINFORCEMENT MATERIALS
 - REINFORCEMENT STEEL, ASTM A615, 60 ksi YIELD GRADE, DEFORMED BILLET STEEL BARS, PLAIN FINISH.
 - WELDED STEEL WIRE FABRIC ASTM A185 PLAIN TYPE, IN FLAT SHEETS, PLAIN FINISH.
 - CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS. SIZED AND SHAPED FOR SUPPORTS OF REINFORCING.
 - FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH ACI 318, ACI 318, ASTM A185A.
- CONCRETE MATERIALS
 - CEMENT: ASTM C150, PORTLAND TYPE.
 - FINE AND COURSE AGGREGATES: ASTM C33 - MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED ONE (1) INCH SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR ONE-THIRD CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING.
 - WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.
 - AIR ENTRAINING ADJUTIVE: ASTM C269.
 - BONDING AGENT: LATEX EMULSION FOR BONDING NEW TO OLD CONCRETE AS MANUFACTURED BY DAYTON SUPERIOR.
 - NON-SHRINK GROUT: PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS.

CONTINUED ON SHEET SP-2

NEW PAR db/a

verizon

Mission 1
Communications
6356 CONSTITUTION DRIVE, SUITE A
FORT WAYNE, INDIANA 46804



RELEASE DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: JMM
CHECKED BY: DJH

SITE NAME:

LAMB CORNERS
CLMB-233
CELL SITE

SITE ADDRESS:

6775 BOBCAT WAY
DUBLIN, OH 43016

SHEET TITLE:

SPECIFICATIONS

ARE PROJECT NO:

001-1042

SHEET NO:

SP-1

3. CONCRETE MIX
 A. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE A.C.I. REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
 B. MIX AND DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94, A.L.T. 3.
 C. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF AC 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. PROVIDE CONCRETE AS FOLLOWS:
 1. COMPRESSIVE STRENGTH: 4000 psi AT 7 DAYS.
 SEE TOWER MANUFACTURER DRAWINGS FOR CAISSON CONCRETE COMPRESSIVE STRENGTH
 2. SLUMP: 3 INCHES

PART 3 - EXECUTION

1. INSERTS, EMBEDDED COMPONENTS AND OPENINGS
 A. THE CONTRACTOR SHALL COORDINATE AND CROSS-CHECK ARCHITECTURAL, BUILDING & ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, AND OTHER ITEMS RELATED TO CONCRETE WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THE PROPER LOCATION BEFORE PLACING CONCRETE.
 B. PROVIDE FORMED OPENINGS WHERE REQUIRED FOR WORK TO BE EMBEDDED IN AND PASSING THROUGH CONCRETE MEMBERS.
 C. COORDINATE WORK OF OTHER SECTIONS IN FORMING AND SETTING OPENING, SLOTS, RECESSES, CHASES, SLEEVES, BOLTS, ANCHORS, AND OTHER INSERTS. D. INSTALL CONCRETE ACCESSORIES STRAIGHT, LEVEL AND PLUMB.
 2. REINFORCEMENT PLACEMENT
 A. PLACE REINFORCEMENT, SUPPORTED AND SECURED AGAINST DISPLACEMENT.
 B. ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATINGS.
 C. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
 D. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.
 E. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2 INCHES.
 3. PLACING CONCRETE
 A. VIBRATE ALL CONCRETE.
 B. ALL CONCRETE WORK SHALL ADHERE TO THE LATEST A.C.I. STANDARDS FOR WINTER POURING AND CURING PROCEDURES IF SEASONAL CONDITIONS APPLY.
 4. CURING
 A. AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING.
 B. MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF SMOOTH FINISH.
 5. PROVIDE HAND RUBBED SMOOTH FINISH TO ALL EXPOSED VERTICAL FORMED CONCRETE SURFACES.
 6. FIELD QUALITY CONTROL
 A. SUBMIT THREE (3) CONCRETE TEST CYLINDERS - TAKEN FOR EVERY 15 CURB YARD OR LESS. SUBMIT CONCRETE TESTS TO THE PROJECT MANAGER IN ACCORDANCE WITH ASTM, C-31 AND C-39.
 B. SUBMIT ONE (1) ADDITIONAL TEST CYLINDER - TAKEN DURING COLD WEATHER POURS, AND CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS.
 C. SUBMIT ONE (1) SLUMP TEST - TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.
 D. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL COSTS INCURRED ASSOCIATED WITH CONCRETE TESTING.
 7. DEFECTIVE CONCRETE
 MODIFY OR REPLACE CONCRETE NOT CONFORMING TO REQUIRED LINES, DETAILS OR ELEVATIONS AT COST OF GC, AS DIRECTED BY ARCHITECT/ENGINEER.

DIVISION 5: METALS

SECTION 05000 - METALS

PART 1 - GENERAL

1. SECTION INCLUDES:
 STRUCTURAL STEEL FRAMING MEMBERS, BASE PLATES, PLATES, BARS AND GROUTING UNDER BASE PLATES.
 2. SUBMITTALS:
 SHOP DRAWINGS: INDICATE SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, OPENINGS, CONNECTIONS, CAMBERS, LOADS, AND WELDED SECTIONS.
 3. QUALITY ASSURANCE
 A. FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 B. PERFORM DESIGN UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE.

PART 2 - PRODUCTS

1. MATERIALS:
 A. STRUCTURAL STEEL MEMBERS: ASTM A572, GRADE 50
 B. STRUCTURAL TUBING: ASTM A500, GRADE B
 C. PIPE: ASTM A53, TYPE E OR S, GRADE B
 D. BOLTS, NUTS, AND WASHERS: ASTM A325
 E. ANCHOR BOLTS: ASTM A307
 F. WELDING MATERIALS: AWS D1.1, TYPE REQUIRED FOR MATERIALS BEING WELDED
 G. GROUT: NON-SHRINK TYPE, PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7000 psi AT 28 DAYS.
 H. SHOP AND TOUCH-UP PRIMER: SSPC 15, TYPE 1, RED OXIDE
 I. TOUCH-UP PRIMER FOR GALV. SURFACES: ZINC RICH TYPE

2. FABRICATION:
 CONTINUOUSLY SEAL JOINTED MEMBERS BY CONTINUOUS WELDS. GRIND EXPOSED WELDS SMOOTH.
 3. FINISH:
 A. PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC B. SP-1 TO SP-10 PROCEDURES.
 C. STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED.

PART 3 - EXECUTION

1. EXAMINATION AND PREPARATION:
 VERIFY THAT THE FIELD CONDITIONS ARE ACCEPTABLE.
 2. ERECTION:
 A. ALLOW FOR ERECTION LOADS. PROVIDE TEMPORARY BRACING TO MAINTAIN FRAMING IN ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING AND BRACING.
 B. FIELD WELD COMPONENTS INDICATED ON SHOP DRAWINGS.
 C. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
 D. AFTER ERECTION, TOUCH-UP WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED OR GALVANIZED WITH TOUCH-UP PRIMERS AS SPECIFIED UNDER SECTION 05000 - METALS, PART 2 - PRODUCTS, H & I. SURFACES TO BE IN CONTACT WITH CONCRETE NOT INCLUDED.
 3. FIELD QUALITY CONTROL:
 FIELD INSPECTION OF MEMBERS, CONNECTIONS, WELDS AND TORQUING.

DIVISION 16: ELECTRICAL

SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS

1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE MATERIALS AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTORS SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
 2. ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
 3. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, FULCRUM, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
 4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "J" WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NFRU OR IEC LISTED.
 5. ALL CONDUIT SHALL HAVE A PULL CORD.
 6. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
 7. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
 8. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY IBC, NEC AND ALL APPLICABLE CODES.
 9. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
 10. PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #MFD-8 LIFT COVERS PLATES.

SECTION 16400 - SERVICE AND DISTRIBUTION

1. WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THIN OR THIN, WITH A MIN. SIZE OF #12 AWG, COLOR CODED. ALL RECIPIER DROPS SHALL BE STRANDED TO ACCEPT CRIMP CONNECTORS.
 2. ALL CHEMICAL GROUND RODS SHALL BE "UL" APPROVED.
 3. WETER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
 4. CONDUIT:
 A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HEATS WRAP PROCESS NO. 3.
 B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTING SHALL BE GLAND RING COMPRESSION TYPE.
 C. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
 D. ALL UNDERGROUND CONDUIT SHALL BE AS NOTED ON THE DRAWINGS AT A MINIMUM DEPTH OF 4" BELOW GRADE.
 5. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
 6. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE OR BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE 1/4-INCH). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
 7. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

B. GROUNDING ELECTRODE SYSTEM

- A. PREPARATION
 1. SURFACE PREPARATION:
 ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
 2. GROUND BAR PREPARATION:
 ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT APPLIED. NO FINGERPRINTS OR DISCOLORED COPPER WILL BE PERMITTED.
 3. SLEEVES
 ALL GROUNDING CONDUCTORS SHALL RUN THROUGH PVC SLEEVES WHEREVER CONDUCTORS RUN THROUGH WALLS, FLOORS OR CEILING. IF CONDUCTORS MUST RUN THROUGH EMT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
 B. GROUND BARS PREPARATION:
 1. ALL GROUND BARS SHALL BE 1/4-INCH THICK TINNED COPPER PLATE AND OF SIZE INDICATED ON DRAWINGS.
 2. ALL CONNECTIONS TO THE GROUND BAR SHALL OBSERVE THE FOLLOWING SEQUENCE:
 A. BOLT-HEAD
 B. 2-HOLE LUG
 C. TINNED COPPER BUSS BAR
 D. STAR WASHER
 E. NUT

- C. EXTERNAL CONNECTIONS
 1. ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELDING PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPICES AND LIGHTNING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (WELDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "COWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.
 2. ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACED AND GROUND ROD) MECHANICAL CONNECTIONS. FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.
 D. GROUND RODS
 ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.

- E. GROUND CONDUCTORS
 ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLE BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.

- F. LUGS
 1. LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #548 BE OR EQUIVALENT
 A. 535 MCM DLO 548808E
 B. 262 MCM DLO 548728E
 C. #10 DLO 548638E
 D. #10 THIN AND BARE 548668E
 E. #12 THIN 548628E
 F. #2 THIN 542078E
 G. #6 DLO 542058E
 2. WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

GROUNDING CONDUCTOR SIZE	RADIUS TO INSIDE EDGE
NO. 6 AWG TO NO. 4 AWG	6 INCHES
NO. 2 AWG TO NO. 1/0 AWG	8 INCHES
NO. 2/0 AWG TO 4/0 MCM	12 INCHES
250 MCM TO 750 MCM	24 INCHES

- G. GROUND RING
 1. THE EXTERNAL GROUND RING ENROUCHING THE TOWER (IF APPLICABLE) AND BETWEEN THE EQUIPMENT SHELTER PLATFORM ANCHORS SHALL BE MINIMUM NO. 2 A.W.G. SOLID TINNED BARE COPPER CONDUCTOR IN DIRECT CONTACT WITH THE EARTH AT THE DEPTH INDICATED ON THE DRAWINGS. CONDUCTOR BENDS SHALL HAVE A MINIMUM BENDING RADIUS OF EIGHT (8) INCHES.
 2. ALL EXTERNAL GROUND RINGS ARE TO BE JOINED TOGETHER AND SUCH CONNECTIONS MUST BE CADWELDED. NO LUGS OR CLAMPS WILL BE ACCEPTED.
 H. FENCE GATE
 GROUND EACH GATE POST, CORNER POST AND GATE AS INDICATED ON THE DRAWINGS. GROUND CONNECTIONS TO FENCE POSTS AND ALL OTHER CONNECTIONS FOR THE GROUND GRID SYSTEM SHALL BE MADE BY EXOTHERMIC WELD PROCESS, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES, AND SPRAYED WITH COLD-GALVANIZED PAINT.

- I. L.E.E.E. FALL POTENTIAL TESTS
 CONTRACTOR TO CONDUCT GROUND RESISTANCE TEST IN THE FORMAT AS FOLLOWS:
 A. FOR RAW LAND SITE
 GROUND TESTS SHALL BE PERFORMED AS INDICATED ON DRAWINGS. A BIDDLE GROUND OWNER OR THE METHOD OF USING TWO AUXILIARY GROUND RODS (AS DESCRIBED IN I.E.E.E. STANDARDS NO. 81-1983, PART 1) MAY BE USED. THE L.E.E.E. METHOD REQUIRES THE USE OF AN A.C. TEST CURRENT. THE AUXILIARY TEST RODS MUST BE SUFFICIENTLY FAR AWAY FROM THE ROD UNDER TEST SO THAT THE REGIONS IN WHICH THEIR RESISTANCE IS LOCALIZED DO NOT OVERLAP. THE TEST POINT WILL BE THE GROUND ROD AND WILL CONSIST OF THE THREE POINT FALL OF POTENTIAL WEEGER TEST METHOD, USING THE BIDDLE NULL-BALANCE EARTH TESTER (WEEGER #52022-2 OR EQUIVALENT)

B. EQUIPMENT PAD

1. PREPARATION
 1. FIRST TEST - SHALL BE WITH FOUR GROUND RODS INSTALLED, ONE AT EACH CORNER OF THE PAD BUT NOT CONNECTED TO THE MAIN GROUNDING BUS. FURNISH WIRE TO CONNECT (TEMPORARY CLAMP) ALL FOUR GROUND RODS TOGETHER TO MAKE A SYSTEM TEST AFTER EACH ROD IS INDIVIDUALLY TESTED. IF ANY INDIVIDUAL ROD TESTS 25 OHMS OR MORE, THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE SHOULD BE NOTIFIED SO THAT THE ROD CAN BE DRIVEN DEEPER UNTIL ALL FOUR RODS HAVE A RESISTANCE OF 10 OHMS OR LESS ON A DRY DAY.
 2. SECOND TEST - SHALL BE WITH THE GROUND RODS CONNECTED, WITH DRY SOIL AND WHEN NO STANDING WATER HAS BEEN PRESENT FOR THE PAST TEN (10) DAYS. THE MAXIMUM ALLOWABLE READING IS 5 OHMS TO GROUND. IF THE RESISTANCE OF THE ENTIRE SYSTEM EXCEEDS 5 OHMS, NOTIFY THE CONTRACTOR AND OWNER'S REPRESENTATIVE SO THAT ADDITIONAL AND/OR DEEPER RODS CAN BE INSTALLED.

- C. TOWER
 1. FIRST TEST - SHALL BE WITH THREE GROUND RODS INSTALLED (MINIMUM), EQUALLY SPACED AROUND THE TOWER FOUNDATION, BUT NOT CONNECTED TO THE SHELTER PAD EXTERNAL GROUND RING. FURNISH WIRE TO CONNECT (TEMPORARY CLAMP) ALL THREE GROUND RODS TOGETHER TO MAKE A SYSTEM TEST AFTER EACH ROD IS INDIVIDUALLY TESTED. IF ANY INDIVIDUAL ROD TESTS 25 OHMS OR MORE, NOTIFY THE CONTRACTOR AND OWNER'S REPRESENTATIVE SO THAT THE ROD CAN BE DRIVEN DEEPER UNTIL ALL THREE (3) RODS HAVE A RESISTANCE OF 10 OHMS OR LESS ON A DRY DAY.
 2. SECOND TEST - SHALL BE WITH THE GROUND RODS CONNECTED, WITH DRY SOIL AND WHEN NO STANDING WATER HAS BEEN PRESENT FOR THE PAST TEN (10) DAYS, THE MAXIMUM ALLOWABLE READING IS 5 OHMS TO GROUND. IF THE RESISTANCE OF THE ENTIRE SYSTEM EXCEEDS 5 OHMS, NOTIFY THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE SHOULD BE NOTIFIED SO THAT EITHER ADDITIONAL AND/OR DEEPER RODS CAN BE INSTALLED.
 D. EQUIPMENT PAD AND TOWER
 1. AFTER THE EQUIPMENT PAD AND TOWER GROUND RESISTANCE TEST IS COMPLETED, CONTRACTOR SHALL THE EQUIPMENT PAD EXTERNAL GROUND RING AND TOWER EXTERNAL GROUND RING TOGETHER. AFTER FIRST AND SECOND TEST ALL CONNECTIONS MUST BE MADE USING EXOTHERMIC WELD. NO LUGS OR CLAMPS WILL BE ACCEPTED.
 2. AFTER ALL THE EXTERNAL GROUND RINGS ARE TIED TOGETHER, COMPLETE A WEEGER CHECK OF THE GROUND SYSTEM SHOULD BE DONE. THE MAXIMUM ALLOWABLE LEADING IS 5 OHMS TO GROUND.

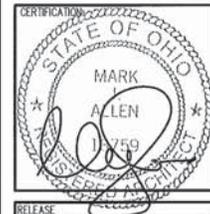
10. GROUNDING RESISTANCE TEST REPORT
 UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS WITH AUXILIARY POTENTIAL ELECTRODES AT FIVE (5) FEET AND TEN (10) FEET INTERVALS UNTIL THE AVERAGE RESISTANCE STARTS INCREASING AND ALSO NOTING THAT 10-15 PHOTOS MUST BE TAKEN TO PROOF ENTIRE EXTERNAL GROUND RING SYSTEM BEFORE BACKFILL. TWO (2) SETS OF TEST DOCUMENTS ARE OF THE INDEPENDENT TESTING SERVICE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

SECTION 16500 - POLES, POSTS, AND STANDARDS (SINGLE MAST AND SELF SUPPORTING TOWERS)

1. GENERAL
 A. LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL APPURTENANCES, TO BE FURNISHED BY OWNER, IF REQUIRED.
 B. PROVIDE TEMPORARY LIGHTING FOR TOWER AS PER FAA REGULATIONS DURING CONSTRUCTION, IF REQUIRED.
 C. GROUNDING:
 GROUND TOWER WITH A MINIMUM OF #2 AWG TINNED SOLE BARE COPPER CONDUCTOR CADWELDED TO TOWER BASE PLATE. TWO (2) GROUNDING LEADS PER TOWER BASE PLATE.
 NO EXOTHERMIC WELDS SHALL BE ATTACHED DIRECTLY TO THE MONOPOLE TOWER SHAFT.

SECTION 16745 - TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE)

1. GENERAL
 A. ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.
 B. CERTAIN MATERIALS AND PRODUCTS WILL BE SUPPLIED BY THE OWNER (REFER TO GENERAL CONDITIONS FOR THE LIST OF OWNER FURNISHED EQUIPMENT, MATERIALS AND SUPPLIES FOR THESE ITEMS). THE CONTRACTOR IS RESPONSIBLE FOR PICKUP AND DELIVERY OF ALL SUCH MATERIALS.
 C. ALL OTHER MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR.
 2. MATERIALS
 A. COAXIAL CABLE:
 1. INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
 2. ALL COAX RUN LENGTHS GREATER THAN 175 FEET SHALL BE 1-5/8", ALL COAX. RUN LENGTH BETWEEN 101 FEET AND 174 FEET SHALL BE 1-1/4", AND IN LENGTH LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8".
 3. ANTENNA AND COAXIAL CABLE GROUNDING
 A. ALL COAXIAL CABLE GROUNDING WIRE ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).
 4. COAXIAL CABLE IDENTIFICATION
 A. TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
 1. FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
 2. SECOND LOCATION IS INSIDE THE EQUIPMENT SHELTER NEAR THE WAVEGUIDE ENTRY PORT.
 B. USE ANDREW CABLE TIES (PT# 27290) TO SECURE IDENTIFICATION TAGS.
 5. TESTING
 VERIZON WIRELESS SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM COAXIAL SWEEP TEST AND REPORT. THE CONTRACTOR IS TO PROVIDE ONE CLINGER / QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE VERIZON WIRELESS WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.



DATE	DESCRIPTION
07-28-09	PRELIMINARY PLANS
06-10-10	ZONING EXHIBITS
03-31-11	REVISED ZONING EXHIBITS
05-23-11	CONSTRUCTION DWGS - REVIEW
08-05-11	CONSTRUCTION DWGS - PERMIT
11-15-11	REVISED PER ZONING COND.
10-02-13	REVISED PER BUILDING OWNER
06-16-14	CONSTRUCTION DWGS - REVIEW
10-05-15	CONSTRUCTION DRAWINGS
02-15-16	CONSTRUCTION DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

DRAWN BY: J.M.
 CHECKED BY: D.B.I.

SITE NAME:

**LAMB CORNERS
 CLMB-233
 CELL SITE**

SITE ADDRESS:

6775 BOBCAT WAY
 DUBLIN, OH 43016

SHEET TITLE:

SPECIFICATIONS

AAE PROJECT NO.:
 001-1042

SHEET NO.:

SP-2