

ANN ARBOR HISTORIC DISTRICT COMMISSION**Staff Report****ADDRESS:** 201 South Main Street, Application Number HDC11-073**DISTRICT:** Main Street Historic District**REPORT DATE:** June 3 for the June 9, 2011 HDC Meeting**REPORT PREPARED BY:** Jill Thacher, Historic Preservation Coordinator**REVIEW COMMITTEE DATE:** Monday, June 6, 2011**OWNER**

Name: Main/Washington Associates
Address: c/o First Martin
 115 Depot Street
 Ann Arbor, MI 48104
Phone: (734) 994-5050

APPLICANT

AT&T Mobility/Catalyst Network Svcs
 29488 Woodward Ave #128
 Royal Oak, MI 48073
 (248) 439-1616

BACKGROUND: The First National Bank Building was constructed in 1929 to house the first bank chartered in Michigan under the National Bank Act of 1863. The building's exterior features broad vertical bands of terra cotta and banks of narrow windows separated by thin terra cotta mullions which give it strong vertical lines. Gargoyles are mounted below a decorative roof cornice. The building is listed in the National Register of Historic Places.

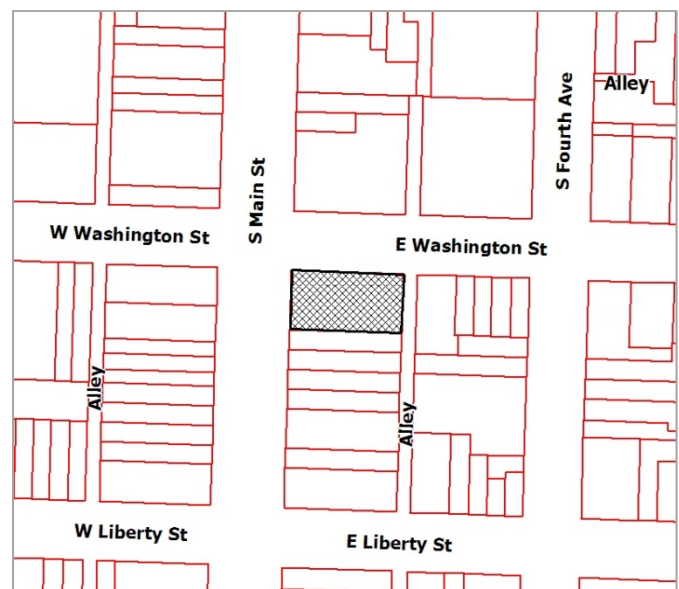
In July, 2007 the HDC issued a certificate of appropriateness for the placement of three antennas in locations similar to this new application. That certificate of appropriateness expired in July of 2010.

LOCATION: The site is located at the southeast corner of South Main Street and East Washington Street.

APPLICATION: The applicant seeks HDC approval to add three antennas and related equipment to the walls of the penthouse structure on the building's roof.

APPLICABLE REGULATIONS:**From the Secretary of the Interior's Standards for Rehabilitation:**

- (2) The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.



- (5) Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.
- (9) New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
- (10) New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property will be unimpaired.

From the Secretary of the Interior's Guidelines for Rehabilitating Historic Buildings (other SOI Guidelines may also apply):

Roofs

Recommended: Installing mechanical and service equipment on the roof, such as air conditioning, transformers, or solar collectors when required for the new use so that they are inconspicuous from the public right-of-way and do not damage or obscure character-defining features.

Not Recommended: Installing mechanical or service equipment so that it damages or obscures character-defining features; or is conspicuous from the public right-of-way.

STAFF FINDINGS:

1. Three antennae that received a certificate of appropriateness in 2007 were similar in size and placement to the ones in this application, but appear to have never been installed. (They were associated with a different telecommunications company.)
2. The proposed antennae would not extend more than an inch or two higher than the penthouse wall, per the submitted mounting detail. All mounting brackets should be attached through masonry joints rather than masonry units.
3. If mounted through masonry joints, the proposed work is generally compatible in exterior design, arrangement, texture, material and relationship to the rest of the building and the surrounding area and meets *The Secretary of the Interior's Standards for Rehabilitation*, in particular standards 2, 5, 9 and 10, and the guidelines for roofs.

POSSIBLE MOTIONS: (Note that the motion supports staff findings and is only a suggestion. The Review Committee, consisting of staff and at least two Commissioners, will meet with the applicant on site and then make a recommendation at the meeting.)

I move that the Commission issue a certificate of appropriateness for the application at 201 South Main Street, a contributing property in the Main Street Historic District, to add three antennas and related equipment to the walls of the penthouse structure on the building's roof, as documented in the applicant's submittal, on the condition that wall-mounted equipment is installed in masonry joints, not through masonry units. The work as conditioned is generally compatible in exterior design, arrangement, texture, material and relationship to the rest of the house and the surrounding area and meets *The Secretary of the Interior's Standards for Rehabilitation* and *Guidelines for Rehabilitating Historic Buildings*, in particular standards 2, 5, 9, and 10 and the guidelines for roofs.

MOTION WORKSHEET:

I move that the Commission

_____ Issue a Certificate of Appropriateness

_____ Deny the Application

For the work at 201 S Main Street in the Main Street Historic District

_____ As proposed.

_____ Provided the following condition(S) is (ARE) met: 1) CONDITION(s)

The work

_____ Is generally compatible with the size, scale, massing, and materials and meets the Secretary of the Interior's Standards for Rehabilitation, standard(S) number(S) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

_____ Is not generally compatible with the size, scale, massing and materials, and DOES NOT MEET the Secretary of the Interior's Standards for Rehabilitation, standard(S) number(S) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 for the following reason(S): 1) REASON(s)

ATTACHMENTS: application, drawings, photos



City of Ann Arbor
PLANNING & DEVELOPMENT SERVICES — PLANNING SERVICES
 100 North Fifth Avenue P.O. Box 8647 Ann Arbor, Michigan 48107-8647
 734.794.6265 734.994.8312 planning@a2gov.org

ANN ARBOR HISTORIC DISTRICT COMMISSION APPLICATION

| | |
|--|--|
| Section 1: Property Being Reviewed and Ownership Information | |
| Address of Property <u>201 South Main</u> | |
| Historic District <u>Main Street</u> | |
| Name of Property Owner (If different than the applicant) <u>Main/Washington Associates (Robert T. Gates, Agent)</u> | |
| Address of Property Owner <u>c/o First Martin, 115 Depot Street, Ann Arbor, MI 48104</u> | |
| Daytime Phone and E-mail of Property Owner: <u>734-994-5050</u> <u>gates@firstmartin.com</u> | |
| Signature of Property Owner <u>[Signature]</u> Date: <u>5/16/11</u> | |
| Section 2: Applicant Information | |
| Name of Applicant <u>AT&T Mobility/Catalyst Network Services</u> | |
| Address of Applicant <u>29488 Woodward Ave #128, Royal Oak, MI 48073</u> | |
| Daytime Phone: (<u>248</u>) <u>439-1616</u> Fax (<u>248</u>) <u>282-5095</u> | |
| E-mail <u>msnyder@msnyderlaw.com</u> | |
| Applicant's Relationship to Property <input type="checkbox"/> owner <input type="checkbox"/> architect <input type="checkbox"/> contractor <input checked="" type="checkbox"/> other | |
| Signature of applicant: <u>[Signature]</u> Date: <u>5/13/11</u> | |
| Section 3: Building Use (check all that apply) | |
| <input type="checkbox"/> Residential <input type="checkbox"/> Single Family <input type="checkbox"/> Multiple Family <input type="checkbox"/> Rental | |
| <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Institutional | |
| Section 4: Stille-DeRossett-Hale Single State Construction Code Act (This item MUST BE INITIALED for your application to be PROCESSED) | |
| Public Act 169, Michigan's Local Historic Districts Act, was amended April 2004 to include the following language: "...the applicant has certified in the application that the property where the work will be undertaken has, or will have before the proposed completion date, a a fire alarm or smoke alarm complying with the requirements of the Stille-DeRossett-Hale Single State Construction Code Act, 1972 PA 230, MCL 125.1501 to 125.1531" | |
| Please initial here: <u>[Signature]</u> | |

Section 5: Description of Proposed Changes (attach additional sheets as necessary)

1. Provide a brief summary of proposed changes. AT&T Mobility to add 3 antennas and related equipment to existing cell site on building rooftop - see plans and photo simulations

2. Provide a description of existing conditions. multiple existing cell antennas and equipment already on the building rooftop

3. What are the reasons for the proposed changes? enhancement of AT&T Mobility's existing cell site to provide 4G/LTE service to downtown Ann Arbor

4. Attach any additional information that will further explain or clarify the proposal, and indicate these attachments here.

see attached plans and photo simulations approved by building owner

5. Attach photographs of the existing property, including at least one general photo and detailed photos of proposed work area. see attached

STAFF USE ONLY

Date Submitted: _____ Application to _____ Staff or _____ HDC

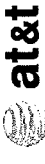
Project No.: HDC Fee Paid: _____

Pre-filing Staff Reviewer & Date: _____ Date of Public Hearing: _____

Application Filing Date: _____ Action: _____ HDC COA _____ HDC Denial

Staff signature: _____ _____ HDC NTP _____ Staff COA

Comments:



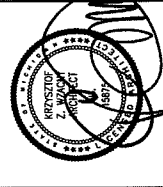
CHRISTOPHER WZACZY AND ASSOCIATES INC.
 30180 TELEGRAPH ROAD, SUITE 114
 TROY, MI 48065
 TEL: (248) 723-8811
 FAX: (248) 723-8910

REFER TO DRAWING SCALE FOR 1"=10' DRAWINGS

M13408
 SITE NAME: FIRST NATIONAL
 AT&T FA#: 10086060

201 SOUTH MAIN ST.
 ANN ARBOR
 MI 48104
 WASHINGTON COUNTY

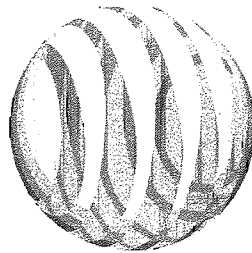
| SHT NO. | DESCRIPTION |
|---------|--|
| T-1 | TITLE SHEET |
| C-1 | ROOF PLAN |
| C-2 | EQUIPMENT ROOM PLANS & DETAILS |
| C-3 | BUILDING ELEVATIONS |
| C-4 | ANTENNA DETAILS |
| A-1 | ANTENNA SCHEDULE AND AZIMUTHS |
| A-2 | COAX DIAGRAM (SECTOR 1) |
| A-3 | COAX DIAGRAM (SECTORS 2 & 3) |
| A-4 | COAX AND WAVEGUIDE DETAILS |
| E-1 | ELECTRICAL & GROUNDING PLANS, ONE LINE DIAG. |
| E-2 | GROUNDING SCHEMATIC |
| E-3 | GROUNDING DETAILS AND ELECTRICAL NOTES |



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SHEET TITLE: _____
 TITLE SHEET
 PROJECT NO.: M13408
 SHEET NUMBER: T-1
 DO NOT SCALE DRAWINGS

**LTE UPGRADE BY
 GOODMAN NETWORKS
 SITE #: M13408
 SITE NAME: FIRST NATIONAL
 AT&T FA #: 10076060
 201 SOUTH MAIN ST
 ANN ARBOR, MI 48104**



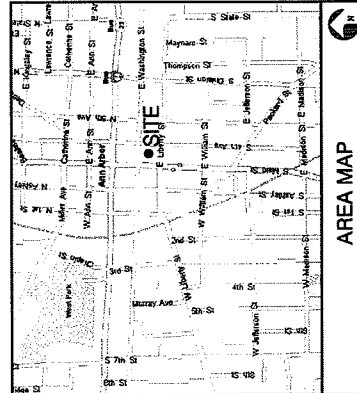
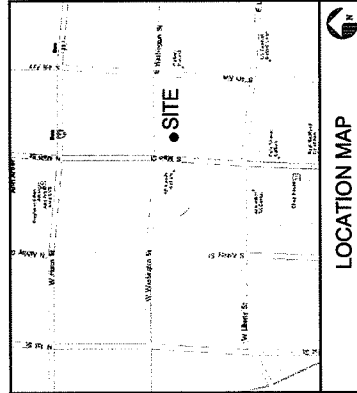
at&t

SITE NAME: FIRST NATIONAL
SITE NUMBER: M13408
SITE ADDRESS: 201 SOUTH MAIN ST.
 ANN ARBOR, MI 48104
 WASHINGTON COUNTY

LANDLORD: AT&T
 1250 SINGULAR WAY
 ANN ARBOR, MI 48104
 (616)-867-4233

APPLICANT: AT&T MOBILITY
 WESTERN HIGHWAY
 CITY ST
 FARMINGTON HILLS, MI 48334
 (600)-632-2822

PROJECT SUMMARY



LATITUDE: 42° 16' 49.01" N (42.28028°)
LONGITUDE: -83° 44' 54.02" W (-83.74834°)

1. FROM I-74 W. THROUGH ANN ARBOR
2. CONTINUE ON N MAIN ST (US-248/RS)
3. TURN RIGHT ON S MAIN ST, ANN ARBOR, ON THE LEFT
4. ARRIVE AT 201 S MAIN ST, ANN ARBOR, ON THE LEFT

DIRECTIONS TO SITE

DRAWING INDEX

| SHT NO. | DESCRIPTION |
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| T-1 | TITLE SHEET |
| C-1 | ROOF PLAN |
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| E-3 | GROUNDING DETAILS AND ELECTRICAL NOTES |

AT&T TO ADD (1) ANTENNA PER SECTOR (TOTAL OF 3), ADD (2) FIRMS (PER SECTOR), ADD (1) FIBER JUNCTION BOX, ADD (1) DEMARCATION BOX, ADD (1) FIBER FEED, ADD (2) DC FEEDS (PER SECTOR), AND INTERIOR EQUIPMENT (INSIDE EQUIPMENT ROOM) TO AN EXISTING TELECOMMUNICATIONS FACILITY.

PROJECT DESCRIPTION



CHRISTOPHER WZACNY AND ASSOCIATES INC.
 30150 TELEGRAPH ROAD, SUITE 114
 BINGHAM FARMS, MI 48025
 (810) 725-8110
 FAX: (810) 725-8110

REFER TO GRAPHIC SCALE FOR 11"x17" DRAWINGS

MIS408
 SITE NAME: FIRST NATIONAL
 AT&T FA#: 10086060

201 SOUTH MAIN ST.
 ANN ARBOR
 MI 48106
 WASHTENAW COUNTY

| REV | DATE | DESCRIPTION |
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| 1 | 02/11/11 | OWNER REVISIONS |
| 2 | 02/11/11 | PRELIMINARY |
| 3 | 02/11/11 | REVISED |

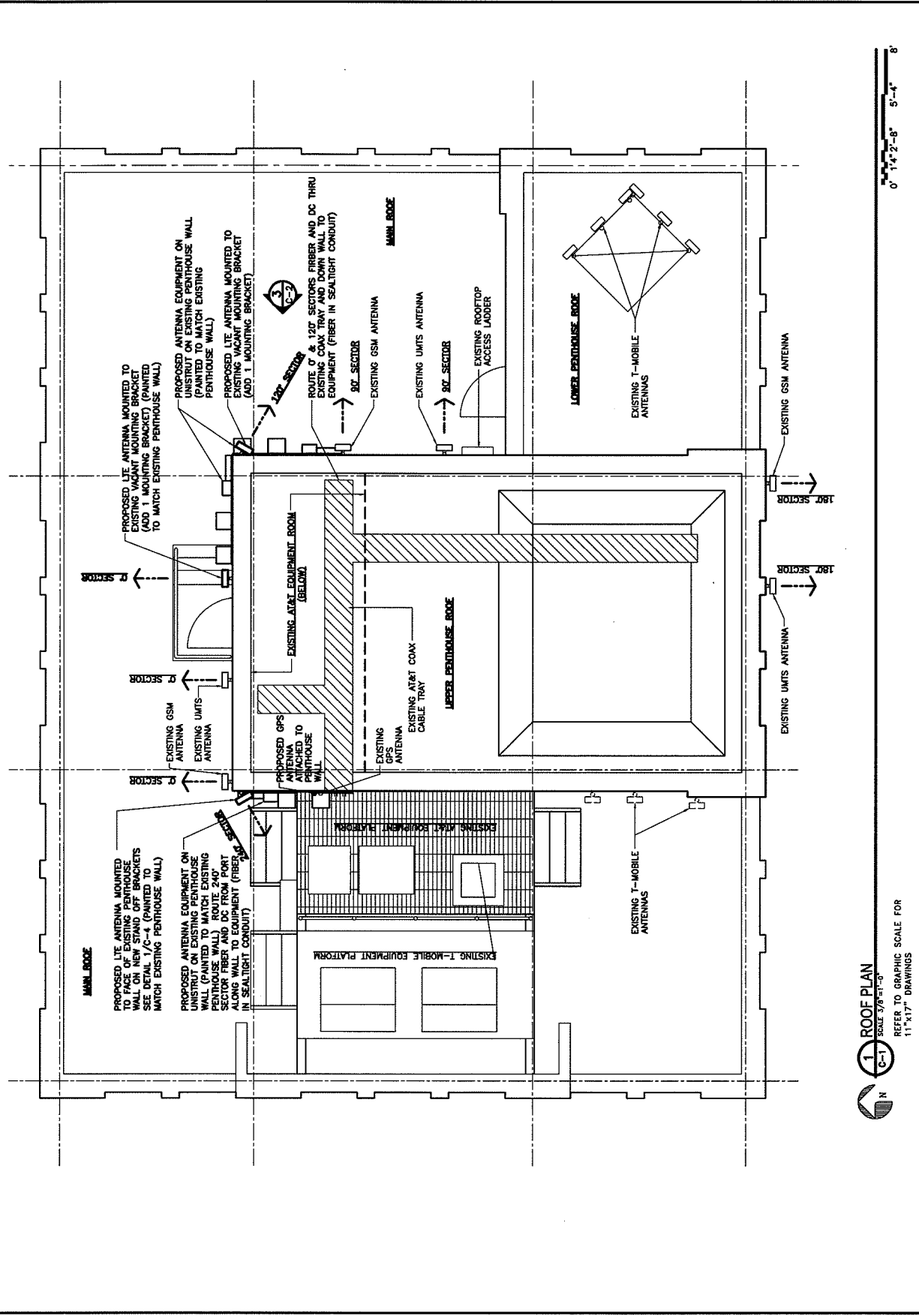
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SHEET TITLE
 ROOF PLAN

PROJECT NO.: MIS408

SHEET NUMBER
C-1

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1 ROOF PLAN
 SCALE 3/8" = 1'-0"
 REFER TO GRAPHIC SCALE FOR 11"x17" DRAWINGS



CHRISTOPHER WZCACHY AND ASSOCIATES INC.
 30180 TELEGRAPH ROAD, SUITE 114
 TROOP, INDIANA 46025
 TEL: (248) 723-8010
 FAX: (248) 723-8010

REFER TO GRAPHIC SCALE FOR
 11"x17" DRAWINGS

MIS408
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 AT&T FA#: 10086060

201 SOUTH MAIN ST.
 ANN ARBOR
 MI 48104
 WASHTENAW COUNTY

REVISIONS

| NO. | DATE | DESCRIPTION |
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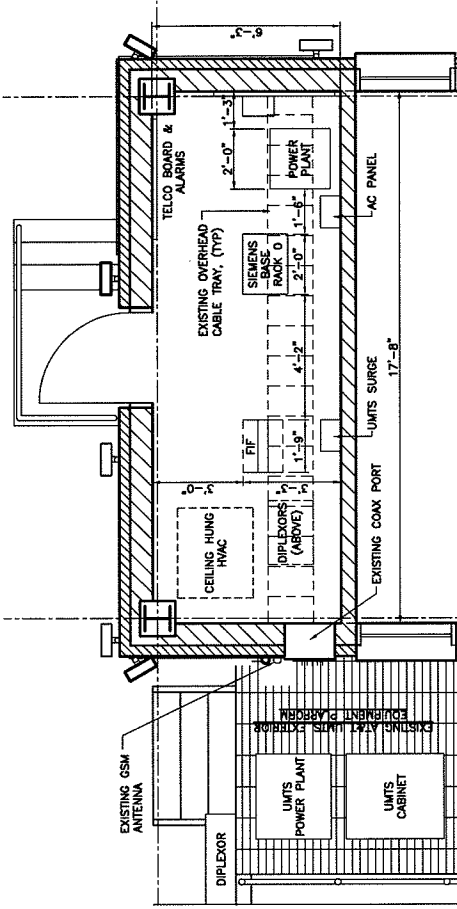
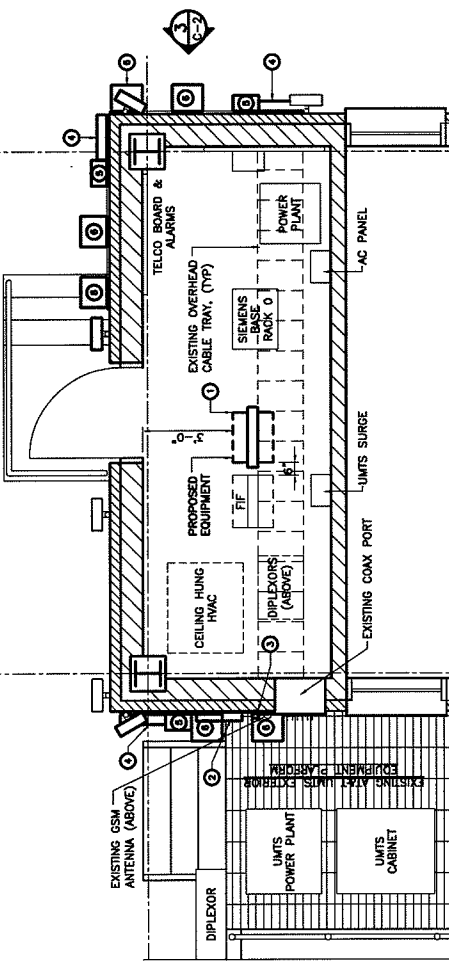
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SHEET TITLE
 EQUIPMENT ROOM PLANS & DETAILS

PROJECT NO: MIS408

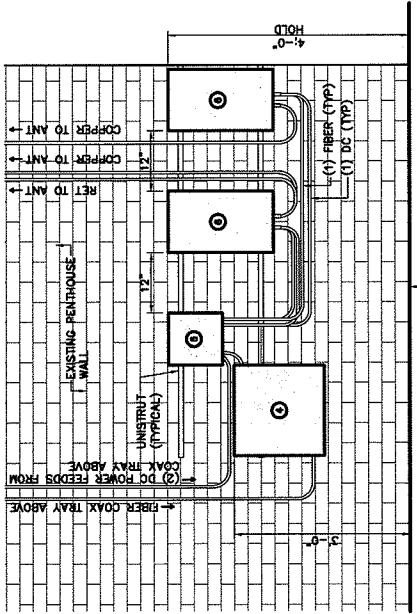
SHEET NUMBER
C-2

DO NOT SCALE DRAWINGS



- NEW EQUIPMENT LEGEND**
- 1. PROPOSED 19" RACK MOUNTED UNIT AND RACK PROTECTION ON PER TP
 - 2. 18"x10"x4" RISE EXTERIOR EXCESS CABLE TRAY (TYP) MOUNTED ON WALL WITH 15-MINUTE FIRE RATED SOLUTIONS
 - 3. PROPOSED USE ANTENNA MOUNTED TO FACE OF EXISTING PENITHOUSE OR EXTERIOR WALL
 - 4. 18"x10"x4" RISE EXTERIOR EXCESS FIBER CABLE BALCONY MOUNTED ON PENITHOUSE WALL COU. 10040 VENTURE ROOFMOUNTED SITE SOLUTIONS
 - 5. PROPOSED SURGE SUPPRESSOR MODEL 100-40-10-10-10-10
 - 6. PROPOSED RIM

NOTE:
 ROUTE PROPOSED FIBER IN SEAL TIGHT FROM CABLE TRAY TO JUNCTION BOX





CHRISTOPHER WZACZY AND ASSOCIATES INC.
 30190 TELEGRAPH ROAD, SUITE 114
 ANN ARBOR, MI 48105
 TEL: (248) 723-8518
 FAX: (248) 723-8510

REFER TO GRAPHIC SCALE FOR 11"x17" DRAWINGS

MIS408
 SITE NAME: FIRST NATIONAL
 AT&T FAF#: 10088060

201 SOUTH MAIN ST.
 ANN ARBOR
 MI 48104
 WASHTENAW COUNTY

REVISIONS

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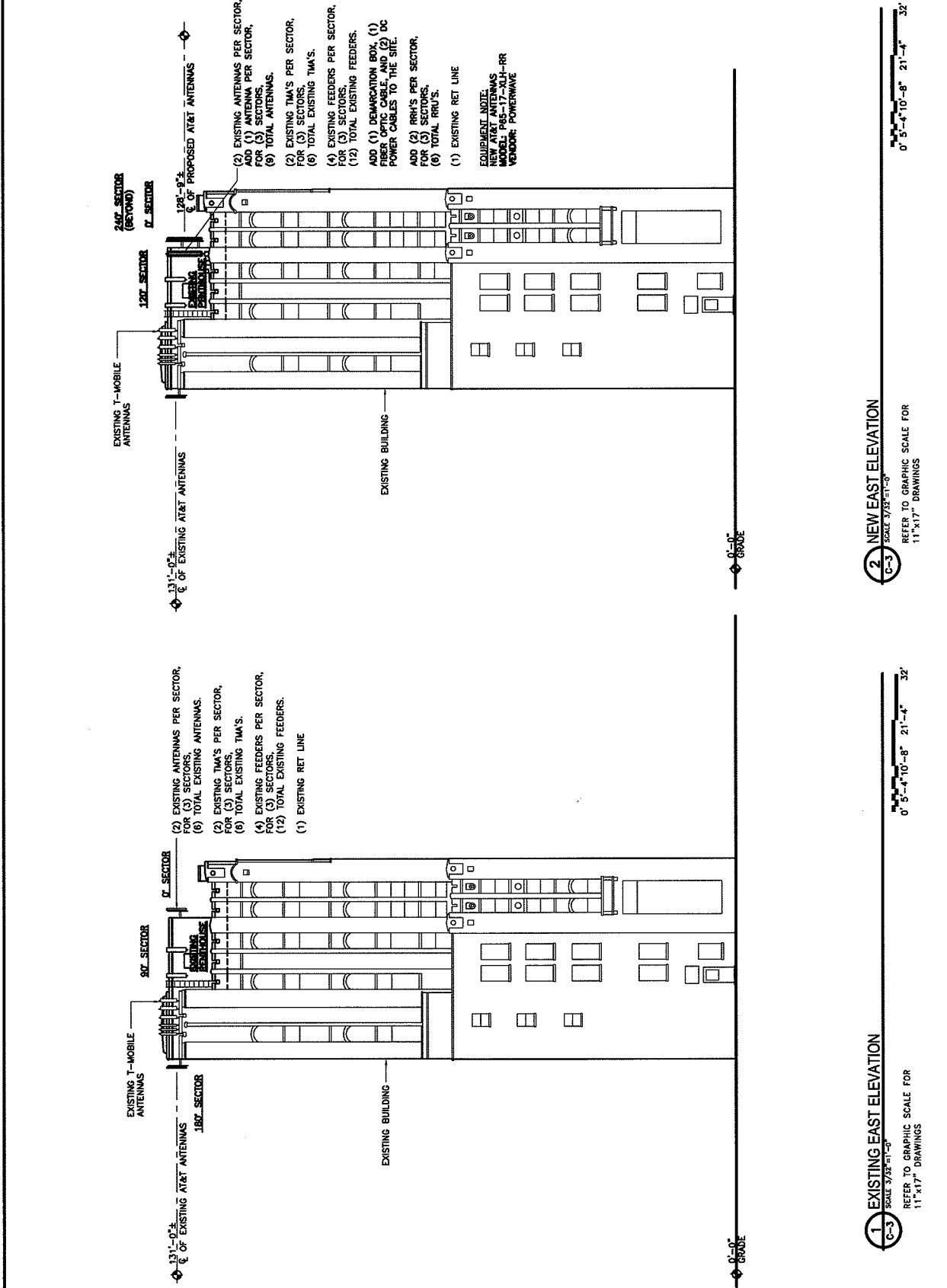
IF IT IS DETERMINED THAT THE USER HAS MADE ANY CHANGES TO THE ORIGINAL DRAWING, THE USER MUST SIGN AND DATE THE CHANGES.

SHEET TITLE: BUILDING ELEVATIONS

PROJECT NO.: MIS408

SHEET NUMBER: C-3

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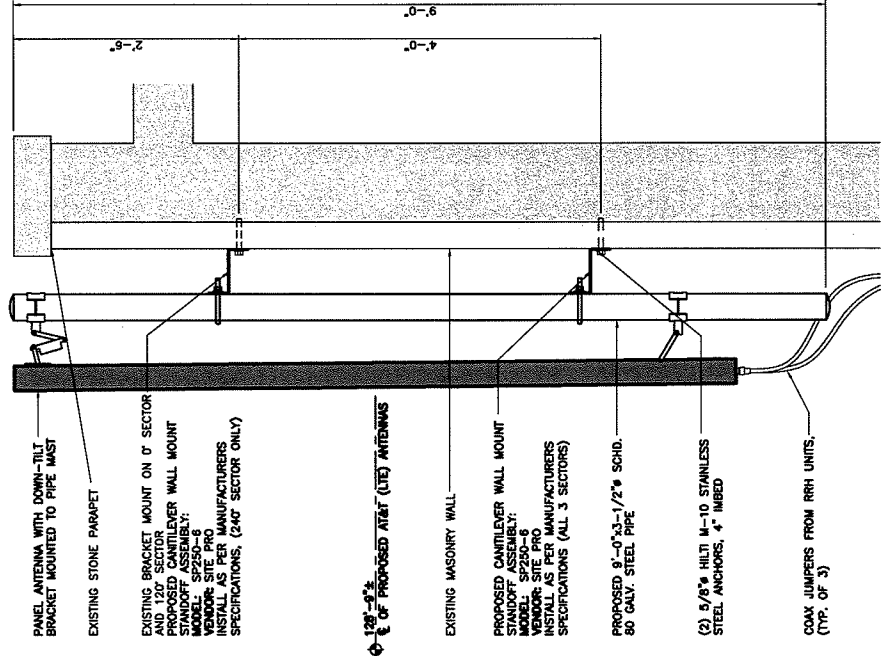


| EQUIPMENT TO BE PROVIDED BY OTHERS: | |
|---|----------------|
| EQUIPMENT | INSTALLED BY |
| THAT'S | SUB-CONTRACTOR |
| POWER PANEL | SUB-CONTRACTOR |
| ESTIME | SUB-CONTRACTOR |
| GOODMAN NETWORKS | SUB-CONTRACTOR |
| ANTENNAS | SUB-CONTRACTOR |
| COAX CABLE AND CONNECTORS | SUB-CONTRACTOR |
| TOP JUMPERS | SUB-CONTRACTOR |
| BOTTOM JUMPERS | SUB-CONTRACTOR |
| NET CABLES | SUB-CONTRACTOR |
| SURGE ARRESTORS | SUB-CONTRACTOR |
| GROUNDING BOX FOR SURGE ARRESTORS | SUB-CONTRACTOR |
| ALL FINAL SUPPORT, SWAPS, BUTTERFLIES AND MISCELLANEOUS HARDWARE TO BE SUPPLIED BY SUB-CONTRACTOR | |

NOTE:
USE ROTARY, NOT HAMMER DRILL, TO PROPOSED ANCHORS FOR ATTACHMENT OF STEEL ANGLES TO STONE AROUND WINDOW OPENINGS

NOTE:
TOP OF ANTENNA NOT TO EXCEED TO OF EXISTING PENTHOUSE PARAPET WALL

NOTE:
SEE SHEET A-1 FOR NEW ANTENNA INFORMATION



1 ANTENNA MOUNTING DETAIL (SECTION) -TYP
SCALE 1/4"=1'-0"
REFER TO GRAPHIC SCALE FOR 11"x17" DRAWINGS



CHRISTOPHER WZACNY AND ASSOCIATES INC.
30180 TELEGRAPH ROAD, SUITE 114
TROY, MI 48065
TEL: (248) 723-4851
FAX: (248) 723-4810

REFER TO GRAPHIC SCALE FOR 11"x17" DRAWINGS

MIS408
SITE NAME: FIRST NATIONAL
AT&T FA#: 10088060

201 SOUTH MAIN ST.
ANN ARBOR
MI 48104
WASHTENAW COUNTY

| NO. | DATE | DESCRIPTION |
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| 1 | 08/11/11 | ISSUED FOR PERMITS |
| 2 | 08/11/11 | ISSUED FOR PERMITS |
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IT IS A VIOLATION OF LAW FOR ANY PERSON TO REPRODUCE OR TRANSMIT IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN CONSENT OF AT&T. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES.

SHEET TITLE: ANTENNA DETAILS

PROJECT NO.: MIS408

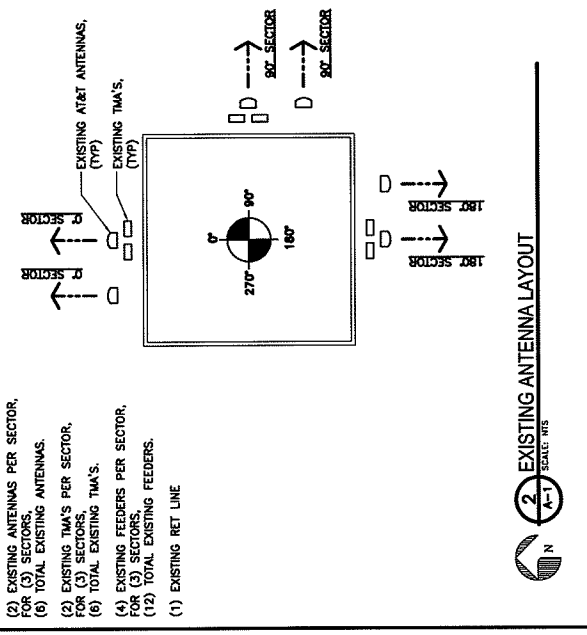
SHEET NUMBER: C-4

DO NOT SCALE DRAWINGS

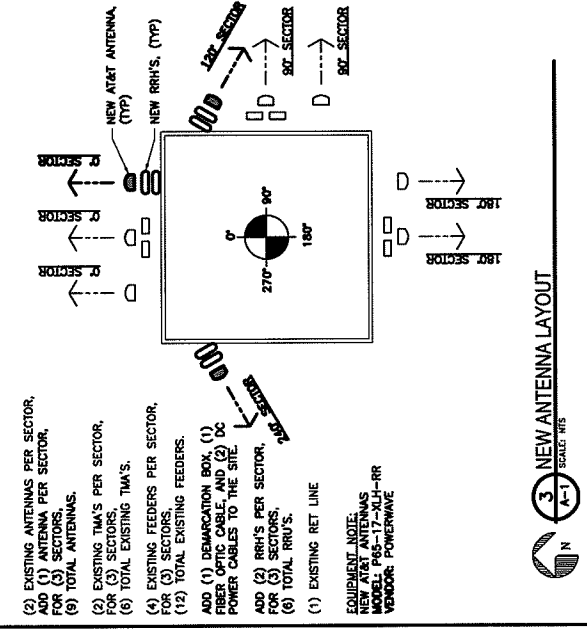
| ITEM DESCRIPTION | SECTOR 1 (ALPHA) AZIMUTH 0° | | | | SECTOR 2 (BETA) AZIMUTH 90° & 120° | | | | SECTOR 3 (GAMMA) AZIMUTH 180° & 240° | | | |
|-------------------------------|---|-----------|------|----------|---------------------------------------|-----------|------|------|---|-----------|------|---------|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| COLOR CODE | CONTRACTOR TO VERIFY COAX COLOR CODING WITH GOODMAN NETWORKS CONSTRUCTION MANAGER | | | | | | | | | | | |
| ANTENNA TYPE | NEW LITE RR P-65-17-KH-T-R | | | | NEW LITE RR P-65-17-KH-T-R | | | | NEW LITE RR P-65-17-KH-T-R | | | |
| ANTENNA RAD CENTER | (E) GSM | (E) UNITS | 131' | 128'-9" | (E) GSM | (E) UNITS | 131' | 131' | (E) GSM | (E) UNITS | 131' | 128'-9" |
| MECHANICAL DOWNTILT | - | - | 0° | - | - | - | 6' | - | - | - | 6' | - |
| 700/850 ELEC. DOWNTILT | - | - | 4° | - | - | - | 5' | - | - | - | 6' | - |
| AW5/1900 ELEC. DOWNTILT | - | - | - | - | - | - | - | - | - | - | - | - |
| MECHANICAL DOWNTILT | - | - | 0° | - | - | - | 0° | - | - | - | 0° | - |
| 850 ELEC. DOWNTILT | - | - | 7° | - | - | - | 7° | - | - | - | 5° | - |
| 1900 ELEC. DOWNTILT | - | - | 8° | - | - | - | 6° | - | - | - | 6° | - |
| MECHANICAL DOWNTILT | - | - | 0° | - | - | - | 0° | - | - | - | 0° | - |
| 850 ELEC. DOWNTILT | - | - | 0° | - | - | - | 0° | - | - | - | 0° | - |
| 1900 ELEC. DOWNTILT | - | - | 0° | - | - | - | 0° | - | - | - | 0° | - |
| FIBER FEEDS / PAIR COUNT | - | - | (N) | (1)/(12) | - | - | - | - | - | - | - | - |
| FIBER JUMPERS (COUNT) | - | - | (N) | (2) | - | - | (N) | (2) | - | - | (N) | (2) |
| DC JUMPERS (COUNT) | - | - | (N) | (2) | - | - | (N) | (2) | - | - | (N) | (2) |
| MAIN COAX SIZE | (E) | (E) | - | - | (E) | (E) | - | - | (E) | (E) | - | - |
| MAIN COAX LENGTH (CUT LENGTH) | (E) | (E) | - | - | (E) | (E) | - | - | (E) | (E) | - | - |
| NUMBER OF COAX | (E) | (2) | (E) | (2) | - | - | (E) | (2) | (E) | (2) | (E) | (2) |
| NUMBER OF TMA | - | - | (E) | (2) | - | - | (E) | (2) | - | - | (E) | (2) |
| NUMBER OF DIPLEXERS ON TOWER | - | - | - | - | - | - | - | - | - | - | - | - |
| NUMBER OF DIPLEXERS ON GROUND | - | - | (E) | (2) | - | - | (E) | (2) | - | - | (E) | (2) |
| BAS-T'S | - | - | - | - | - | - | - | - | - | - | - | - |
| LTE RET JUMPERS | - | - | (N) | (2) | - | - | (N) | (2) | - | - | (N) | (2) |
| LTE RRR 700/850 | - | - | (N) | (1) | - | - | (N) | (1) | - | - | (N) | (1) |
| LTE RRR AWS/1900 | - | - | (N) | (1) | - | - | (N) | (1) | - | - | (N) | (1) |

NOTE: INFORMATION TAKEN FROM RF DATA SHEET DATED 01/29/2011 REV 102

1 ANTENNA SCHEDULE



- (2) EXISTING ANTENNAS PER SECTOR, FOR (3) SECTORS.
- (6) TOTAL EXISTING ANTENNAS.
- (2) EXISTING TMA'S PER SECTOR, FOR (3) SECTORS.
- (6) TOTAL EXISTING TMA'S.
- (4) EXISTING FEEDERS PER SECTOR, FOR (3) SECTORS.
- (12) TOTAL EXISTING FEEDERS.
- (1) EXISTING RET LINE



- (2) EXISTING ANTENNAS PER SECTOR, ADD (1) ANTENNA PER SECTOR, FOR (3) SECTORS.
- (6) TOTAL ANTENNAS.
- (2) EXISTING TMA'S PER SECTOR, FOR (3) SECTORS.
- (6) TOTAL EXISTING TMA'S.
- (4) EXISTING FEEDERS PER SECTOR, FOR (3) SECTORS.
- (12) TOTAL EXISTING FEEDERS.
- ADD (1) DEMARCATION BOX, (1) FIBER OPTIC CABLE, AND (2) DC POWER CABLES TO THE SITE.
- ADD (2) RRR'S PER SECTOR, FOR (3) SECTORS.
- (6) TOTAL RRR'S.
- (1) EXISTING RET LINE

EQUIPMENT NOTE:
NEW AT&T ANTENNAS
NEW RET ANTENNAS
NEW RRH'S
NEW POWERLINE

3 NEW ANTENNA LAYOUT

CHRISTOPHER WZACHY AND ASSOCIATES INC.
30180 TELEGRAPH ROAD, SUITE 114
BIRCHMOUNT PARKS, MI 48025
TEL: (248) 723-8910
FAX: (248) 723-8910

REFER TO DRAWING SCALE FOR 11/24/11 DRAWINGS

MIS408
SITE NAME: FIRST NATIONAL
AT&T FA#: 10086060

201 SOUTH MAIN ST.
ANN ARBOR
MI 48104
WASHTENAW COUNTY

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PROJECT NO: MIS408
SHEET NUMBER: A-1

DO NOT SCALE DRAWINGS

IF A PORTION OF LAW FOR ANY PERSON, CORPORATION, OR OTHER ENTITY, OR ANY MEMBER OF THE PROFESSIONAL PERSONNEL OF ANY SUCH ENTITY, IS INVOLVED IN THE PREPARATION OF THIS DOCUMENT, THE SIGNATURE OF SUCH PERSON OR ENTITY SHALL BE REQUIRED.

ANTENNA SCHEDULE AND AZIMUTHS



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 FAX: (248) 724-4810

REFER TO GRAPHIC SCALE FOR
 1:14:7 DRAWINGS

MR3-408
 SITE NAME: FIRST NATIONAL
 AT&T FA#: 10086080

201 SOUTHRIMAN ST.
 ANN ARBOR
 MI 48104
 WASHTENAW COUNTY

REVISIONS

| NO. | DATE | DESCRIPTION |
|-----|----------|-----------------|
| 1 | 10/01/11 | SWITCH NETWORKS |
| 2 | 10/01/11 | DC POWER |
| 3 | 10/01/11 | REVISIONS |

IF IT IS A PORTION OF THE PLAN AND/OR PERSONAL PROPERTY OF THE CLIENT, IT IS TO BE DESTROYED IMMEDIATELY UPON THE COMPLETION OF THIS PROJECT.

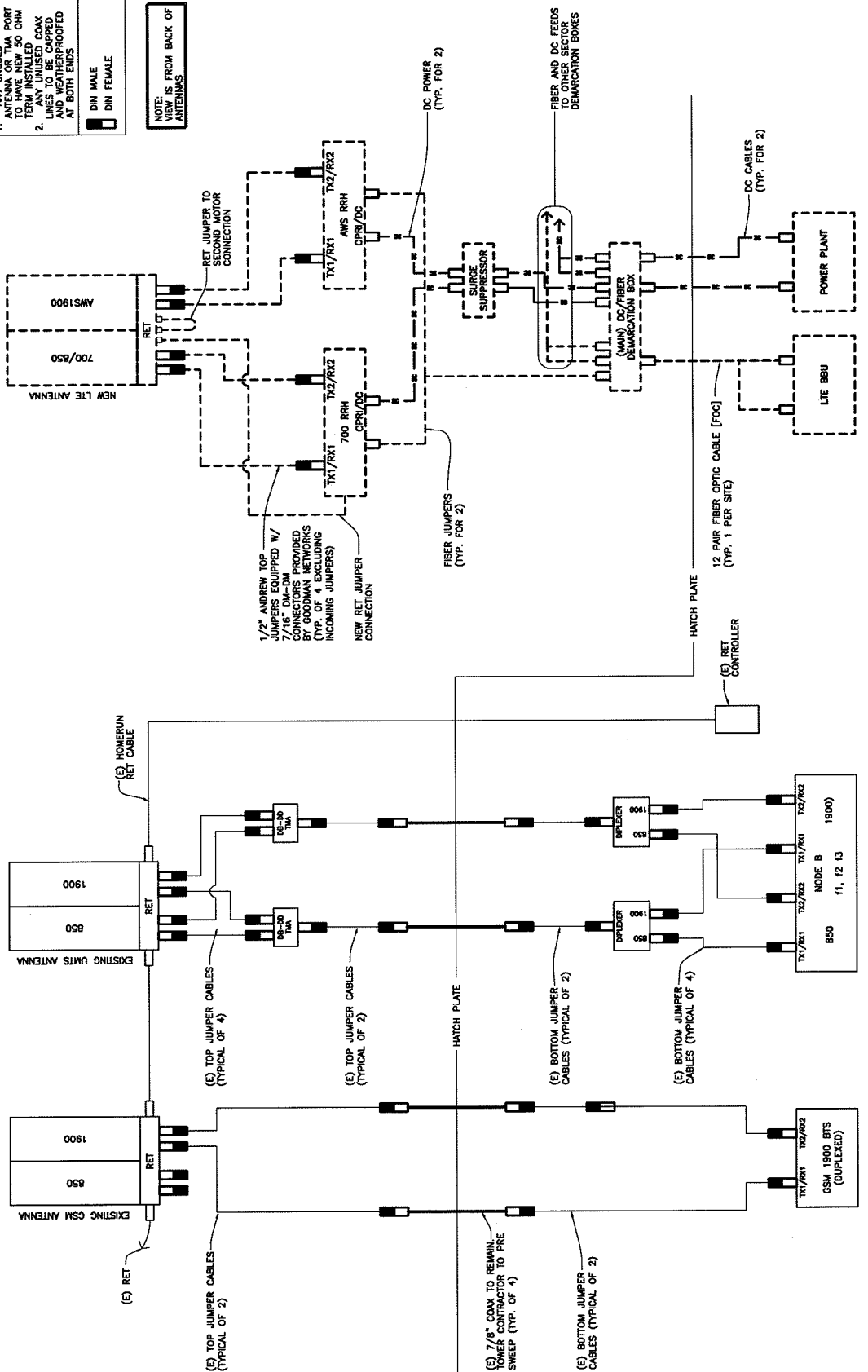
COAX DIAGRAM (SECTOR 1)
 SHEET TITLE

PROJECT NO: MR3-408
 SHEET NUMBER

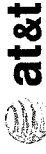
A-2
 DO NOT SCALE DIMENSIONS

- NOTE: UNLESS INDICATED OTHERWISE, ALL ANTENNAS TO HAVE NEW 50 OHM TERMINATED COAX JUMPER CABLES TO BE CAPPED AND WEATHERPROOFED AT BOTH ENDS
- 1. ANTENNA OR TIA PORT
 - 2. TERM INSTALLED
- DIN MALE
 DIN FEMALE

NOTE: ALL ANTENNAS FROM BACK OF



1 NEW COAX DIAGRAM (SECTOR 1)
 SCALE: NTS
 A-2



CHRISTOPHER WZACNY AND INC.
 30150 TELEGRAPH ROAD, SUITE 114
 BINGHAM FARMS, MI 48025
 TEL: (248) 723-8100
 FAX: (248) 723-8110

REFER TO GRAPHIC SCALE FOR
 1" X 1" DRAWINGS

MIS-408
 SITE NAME: FIRST NATIONAL
 AT&T FA#: 10086080

261 SOUTH MAIN ST.
 SOUTH BEND
 MI 48104
 WASHTENAW COUNTY

REVISIONS

| NO. | DATE | BY | DESCRIPTION |
|-----|----------|------------------|-------------|
| 1 | 08/11/11 | SWANER/REVISIONS | REVISED |
| 2 | 08/11/11 | SWANER/REVISIONS | REVISED |
| 3 | 08/11/11 | SWANER/REVISIONS | REVISED |
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| 19 | 08/11/11 | SWANER/REVISIONS | REVISED |
| 20 | 08/11/11 | SWANER/REVISIONS | REVISED |

IF IS A MODIFICATION OF LINE FOR ANY PERSON,
 THE MODIFICATION SHALL BE MADE BY THE ORIGINAL
 ENGINEER OF THE PROJECT OR HIS AUTHORIZED REPRESENTATIVE.
 NO OTHER PERSON SHALL BE AUTHORIZED TO ALTER THIS DOCUMENT.

SHEET TITLE
 COAX DIAGRAM (SECTORS 2 & 3)

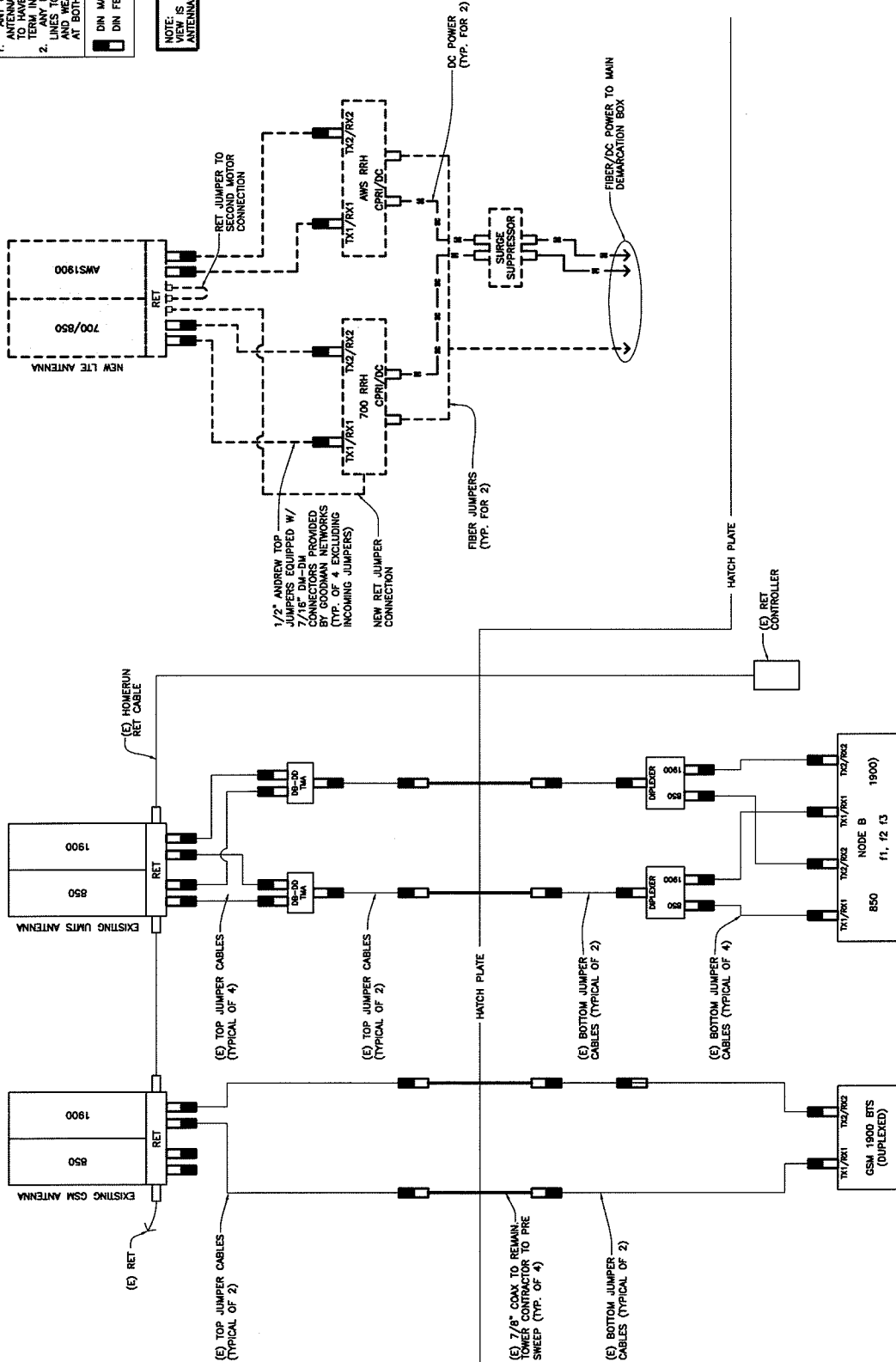
PROJECT NO.: MIS-408

SHEET NUMBER
A-3

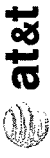
DO NOT SCALE DRAWINGS

- NOTE: UNLINED ANTENNA OR TMA PORT TO HAVE NEW 50 OHM TERM. INSTALLED COAX LINES TO BE CAPPED AND WEATHERPROOFED AT BOTH ENDS
- DIN MALE
 - DIN FEMALE

NOTE: IS FROM BACK OF ANTENNAS



1 NEW COAX DIAGRAM (SECTORS 2 & 3)
 SCALES: NTS
A-3



CHRISTOPHER WZZACNY AND ASSOCIATES INC.

30190 TELEGRAPH ROAD, SUITE 114
BINGHAM FARMS, MI 48025
TEL: (248) 352-3111
FAX: (248) 723-4810

REFER TO GRAPHIC SCALE FOR 1"=144" DRAWINGS

MR9408
SITE NAME: FIRST NATIONAL
AT&T FA#: 10088060

201 SOUTH MAIN ST.
ANN ARBOR
MI 48106
WASHTENAW COUNTY

REVISIONS

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IF IN A SITUATION OF LIFE OR EXTREMELY RISK TO PERSONS, THIS DRAWING SHALL BE USED AS A GUIDE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY EXCAVATION, TO AVOID DAMAGE TO EXISTING UTILITIES AND TO AVOID PERSONAL INJURY OR DEATH.

SHEET TITLE:

COAX AND WAVEBRIDGE DETAILS

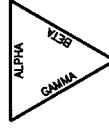
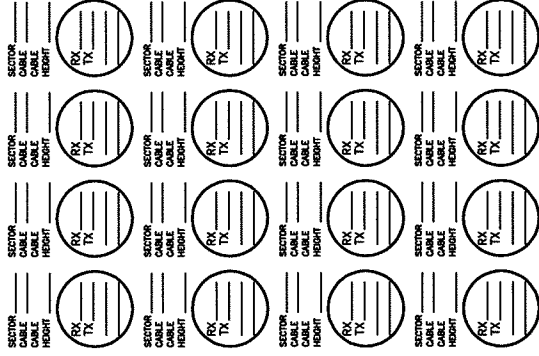
PROJECT NO.: MR9408

SHEET NUMBER:

A-4

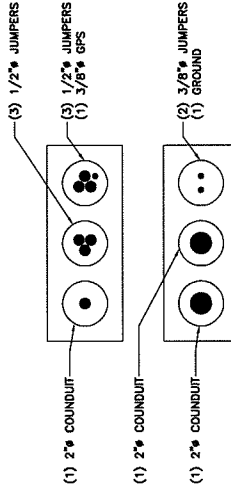
DO NOT SCALE DRAWINGS

CABLE PORT DIAGRAM
CAUTION: HARMFUL RF ENERGY EXISTS ON THESE LINES



TOWER PLAN VIEW

CABLE PORT NOTES:
CONTRACTOR SHALL FILL OUT THE CABLE PORT DIAGRAM UPON COAX INSTALLATION. CABLE PORT DIAGRAM WILL BE AFFIXED TO THE INTERIOR SHELTER WALL NEAR THE CABLE DISTRIBUTION POINT. CONTRACTOR SHALL REFER TO THIS CHART TO BE USED TO RECORD THE LINE AND CORRESPONDING ANTENNA POSITION ON THE TOWER AT THE TIME OF INSTALLATION.
ONE COMPLETED COPY PLUS TWO BLANK COPIES OF THE CHART SHOULD BE POSTED IN THE SHELTER IN A PROTECTIVE PLASTIC SLEEVE.



VIEWED FROM INSIDE EQUIPMENT ROOM/SHELTER

1 EXISTING HATCH PLATE LAYOUT DIAGRAM





CHRISTOPHER WZCANY AND ASSOCIATES INC.
 30150 TELEGRAPH ROAD, SUITE 114
 BINGHAM FARMS, MI 48025
 TEL: (248) 722-4816
 FAX: (248) 722-4810

REFER TO GRAPHIC SCALE FOR 11'X17' DRAWINGS

MIS408
 SITE NAME: FIRST NATIONAL
 AT&T FA#: 10086060

201 SOUTHMAN ST.
 ANN ARBOR
 MI 48106
 WASHTENAW COUNTY

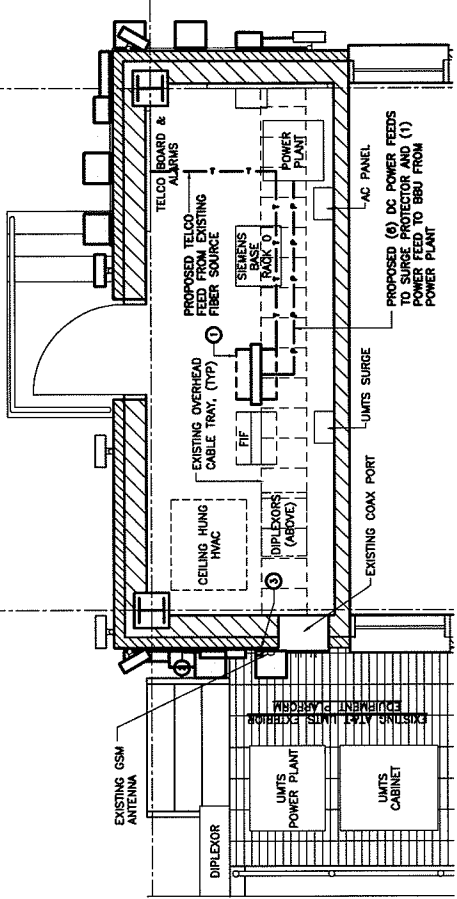
| NO. | DATE | DESCRIPTION |
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| 1 | 05/21/11 | OWNER/ISSUES |
| 2 | 05/21/11 | ISSUES/ISSUES |
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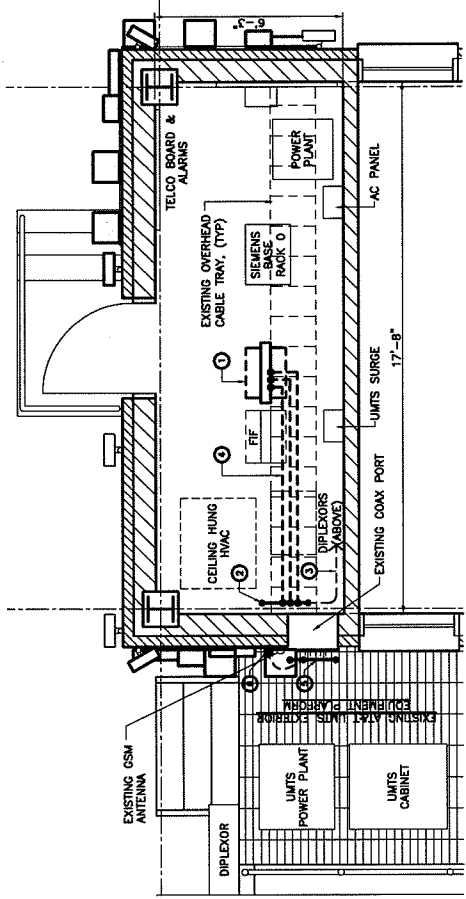
ELECTRICAL & GROUNDING PLANS, ONE LINE DIAGRAM

PROJECT NO.: MIS408
 SHEET NUMBER: E-1

DO NOT SCALE DRAWINGS

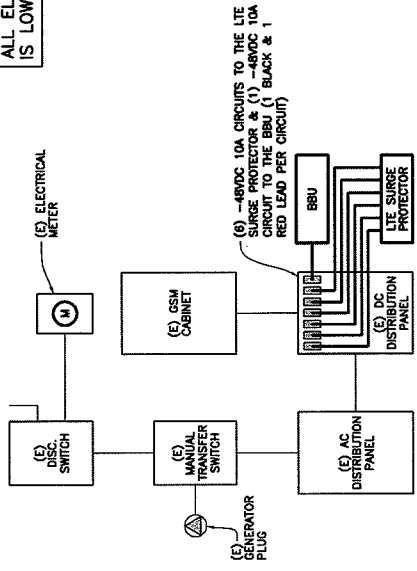


2 PROPOSED EQUIPMENT ELECTRICAL PLAN
 SCALE 1/8"=1'-0"
 REFER TO GRAPHIC SCALE FOR 11'X17' DRAWINGS



1 PROPOSED EQUIPMENT GROUNDING PLAN
 SCALE 1/8"=1'-0"
 REFER TO GRAPHIC SCALE FOR 11'X17' DRAWINGS

NOTE:
 ALL ELECTRICAL WORK IS LOW VOLTAGE DC.



3 ELECTRICAL ONE LINE DIAGRAM
 SCALE 1/8"=1'-0"
 REFER TO GRAPHIC SCALE FOR 11'X17' DRAWINGS

- GROUNDING LEGEND**
- 1 PROPOSED MOD EQUIPMENT
 - 2 EXISTING MASTER GROUND BAR, VERIFY AS REQUIRED
 - 3 EXISTING BUNDLES TO EXISTING GROUNDING SYSTEM
 - 4 EQUIPMENT GROUND BARS ROUTED ON CABLE TRAY TO MASTER GROUND BAR (TYPICAL)
 - 5 EXISTING COAX GROUND BAR, VERIFY AS REQUIRED
 - 6 PROPOSED OPS ANTENNA MOUNTED TO FACE OF EXISTING PLANT, VERIFY AS REQUIRED



CHRISTOPHER WZACNY AND ASSOCIATES INC.
 30150 TELEGRAPH ROAD, SUITE 114
 BINGHAM PARKS, MI 48625
 TEL: (866) 723-8818
 FAX: (866) 723-8610

REFER TO GRAPHIC SCALE FOR 1"=1'-0" DRAWINGS

MIS408
 SITE NAME: FIRST NATIONAL
 AT&T FA#: 10086060

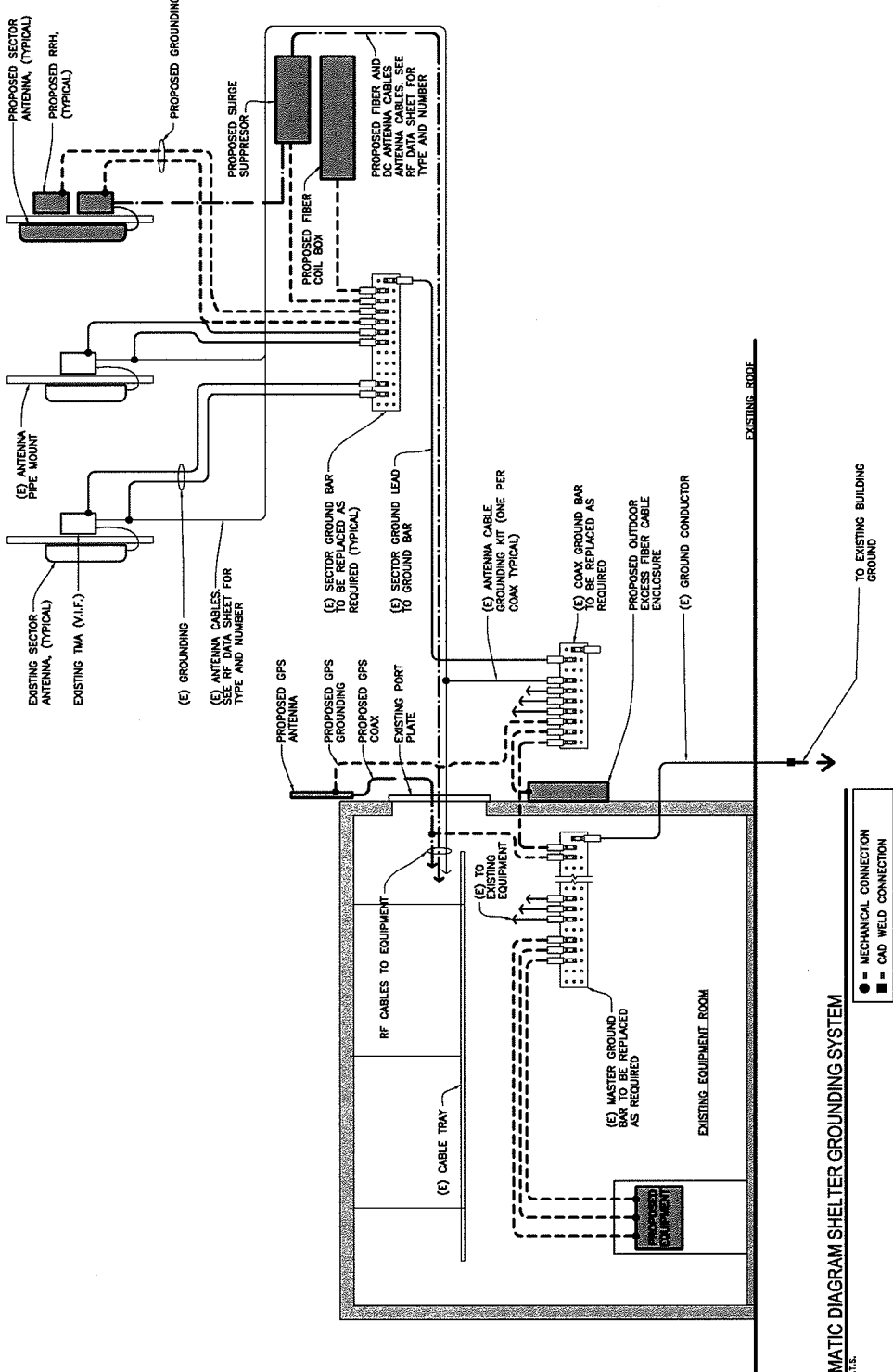
201 SOUTH MAIN ST.
 ANN ARBOR
 WASHTENAW COUNTY

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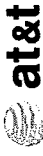
SHEET TITLE: GROUNDING SCHEMATIC
 PROJECT NO.: MIS408
 SHEET NUMBER: E-2
 DO NOT SCALE DRAWINGS

TYPICAL ANTENNA SECTOR



- = MECHANICAL CONNECTION
- = CAD WELD CONNECTION

1 SCHEMATIC DIAGRAM SHELTER GROUNDING SYSTEM
 SCALE: N.T.S.



CHRISTOPHER WZACNY AND ASSOCIATES INC.
 30180 TELEGRAPH ROAD, SUITE 114
 NEWTON, MA 02459
 TEL: (617) 723-8810
 FAX: (617) 723-8810

REFER TO GRADING SCALE FOR 11x17" DRAWINGS

M18408
 SITE NAME: FIRST NATIONAL
 AT&T FAF#: 10086060

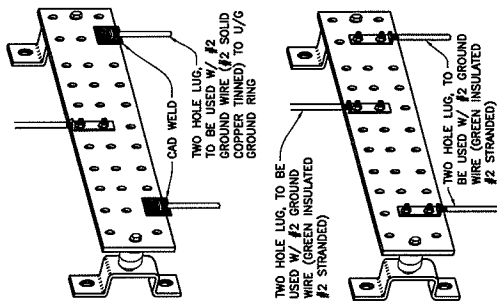
301 SOUTH MAIN ST.
 ANN ARBOR
 MI 48104
 WASHINGTON COUNTY

| NO. | DATE | DESCRIPTION |
|-----|----------|------------------|
| 1 | 04/21/11 | QUANTIFICATION |
| 2 | 04/21/11 | FIELD CHECKS 50% |
| 3 | | REVISED |
| 4 | | REVISED |
| 5 | | REVISED |

IT IS THE POLICY OF AT&T TO PROVIDE THE BEST QUALITY OF SERVICE TO OUR CUSTOMERS. THE QUALITY OF SERVICE IS A FUNCTION OF THE QUALITY OF THE INSTALLATION. THE QUALITY OF THE INSTALLATION IS A FUNCTION OF THE QUALITY OF THE DESIGN. THE QUALITY OF THE DESIGN IS A FUNCTION OF THE QUALITY OF THE SPECIFICATIONS. THE QUALITY OF THE SPECIFICATIONS IS A FUNCTION OF THE QUALITY OF THE REQUIREMENTS. THE QUALITY OF THE REQUIREMENTS IS A FUNCTION OF THE QUALITY OF THE NEEDS. THE QUALITY OF THE NEEDS IS A FUNCTION OF THE QUALITY OF THE PROBLEMS. THE QUALITY OF THE PROBLEMS IS A FUNCTION OF THE QUALITY OF THE SITUATION. THE QUALITY OF THE SITUATION IS A FUNCTION OF THE QUALITY OF THE ENVIRONMENT. THE QUALITY OF THE ENVIRONMENT IS A FUNCTION OF THE QUALITY OF THE SOCIETY. THE QUALITY OF THE SOCIETY IS A FUNCTION OF THE QUALITY OF THE HUMANITY. THE QUALITY OF THE HUMANITY IS A FUNCTION OF THE QUALITY OF THE SPIRIT. THE QUALITY OF THE SPIRIT IS A FUNCTION OF THE QUALITY OF THE HEART. THE QUALITY OF THE HEART IS A FUNCTION OF THE QUALITY OF THE MIND. THE QUALITY OF THE MIND IS A FUNCTION OF THE QUALITY OF THE BODY. THE QUALITY OF THE BODY IS A FUNCTION OF THE QUALITY OF THE FEELINGS. THE QUALITY OF THE FEELINGS IS A FUNCTION OF THE QUALITY OF THE THOUGHTS. THE QUALITY OF THE THOUGHTS IS A FUNCTION OF THE QUALITY OF THE WORDS. THE QUALITY OF THE WORDS IS A FUNCTION OF THE QUALITY OF THE DEEDS. THE QUALITY OF THE DEEDS IS A FUNCTION OF THE QUALITY OF THE CHARACTER. THE QUALITY OF THE CHARACTER IS A FUNCTION OF THE QUALITY OF THE SOUL. THE QUALITY OF THE SOUL IS A FUNCTION OF THE QUALITY OF THE GOD.

PROJECT NO.: M18408
 SHEET NUMBER: E-3
 DO NOT SCALE DRAWINGS

- NOTES:
1. TINNED COPPER GROUND BAR, 1/4" X 4" X 20", NEWTON INSTRUMENTS OR APPROVED EQUAL. HOLES CENTER TO MATCH NEMS DOUBLE LUG CONFIGURATION.
 2. INSULATORS- NEWTON CAT. NO. 3015-B OR APPROVED EQUAL. (WHERE REQUIRED)
 3. 5/8" LOCK WASHERS NEWTON CAT. NO. A-6056 OR APPROVED EQUAL.
 4. 5/8" -11 X 1" H.M.C.S. BOLTS NEWTON CAT. NO.-3012-1 OR APPROVED EQUAL.
 5. COAT ALL SURFACES W/ "KOPER SHIELD" BEFORE MATING.
 6. ALL HARDWARE TO BE STAINLESS STEEL UNLESS OTHERWISE INDICATED.
 - *NUTS TO FACE OUT*



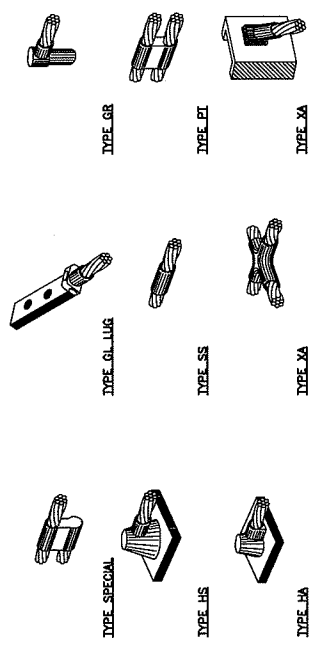
1. TYPICAL GROUND BAR
 SCALE: NTS

ELECTRICAL - GROUNDING SYSTEM

1. ALL GROUNDING CONDUCTORS SHALL BE #2 SOLID TINNED COPPER, UNLESS OTHERWISE NOTED.
2. CONDUCTORS ARE TO BE INSTALLED AT 3'-0" FROM SHELTER AND TOWER.
3. GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS SUBMIT AN INDEPENDENT FALL POTENTIAL TESTING REPORT.
4. ALL UNDERGROUND GROUNDING CONNECTORS ARE TO BE CADWELDED. ALL UNDERGROUND WIRING SHALL BE EITHER CADWELDED OR MECHANICAL, AS SPECIFIED ON DRAWINGS.
5. ALL GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH AT&T STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.
6. GATE GROUNDING FLEX CONNECTOR, (IF REQUIRED) REF. "CADWELD" CATALOG #A0402 FOR GATE/POST FLEX CONNECTOR (EXAMPLE: PART NO. A239FC25-Y-3L FOR 3" POST).
7. GROUND RODS SHALL BE INSTALLED VERTICALLY IN THE EXISTING CONDUIT AND SHALL BE 1/2" DIA. X 8'-0" LONG CORROSION RESISTANT UNLESS OTHERWISE NOTED, OR AS APPROVED BY THE FIELD ENGINEER.
8. ALL EXTERIOR CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COVERED WITH TWO (2) COATS SHERWIN WILLIAMS GALVITE PAINT 355095 (OR EQUAL).
9. ALL ELECTRICAL AND MECHANICAL GROUND CONNECTIONS WILL HAVE NO OXIDATION COMPOUND APPLIED TO CONNECTION.
10. THE GROUNDING SYSTEM SHALL BE TESTED AS SPECIFIED IN THE GROUND RESISTANCE TEST.
11. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING AND CONSTRUCTION MAY VARY DUE TO THE SPECIFIC SITE CONDITIONS.
12. ALL EXTERIOR GROUNDING AND TOP OF GROUNDING RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 42" BELOW FINISH GRADE. ELECTRIC METER GROUND EXCLUDED.

UTILITIES - GENERAL NOTES

1. UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED ON PRELIMINARY INFORMATION ONLY. PROVIDE BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSE ONLY.
 2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS AND SUPPLIES. CABLES, PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, AND PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
 3. ALL FISH LINE SHALL BE LEFT IN CONDUITS (PVC) FOR FUTURE USE.
- ELECTRICAL WIRING AND RACEWAYS
1. WIRING OF ALL KINDS MUST BE INSTALLED IN CONDUIT, UNLESS OTHERWISE NOTED OR APPROVED BY THE ELECTRICAL ENGINEER.
 2. ALL WIRING SHALL BE COPPER TYPE THIN AND IN ACCORDANCE WITH THE (NEC) NATIONAL ELECTRICAL CODE OR AS INDICATED ON PLANS.
 3. RACEWAYS SHALL BE STEEL GALVANIZED, WITH SIZE AS SPECIFIED AND IN ACCORDANCE WITH THE (NEC) NATIONAL ELECTRICAL CODE UNLESS OTHERWISE NOTED ON PLANS. ALL RACEWAYS SHALL BE APPROVED PRIOR TO INSTALLATION.
 4. JUNCTION BOXES OR PULL BOXES SHALL MEET (NEC) NATIONAL ELECTRICAL CODE STANDARDS AND AS APPROVED FOR INSTALLATION OF RACEWAYS AND WIRING.
 5. THE RACEWAY AND WIRING INSTALLATION SHALL BE GROUNDED PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH ARTICLE 250 OF THE (NEC) NATIONAL ELECTRICAL CODES.



ELECTRICAL - GENERAL NOTES

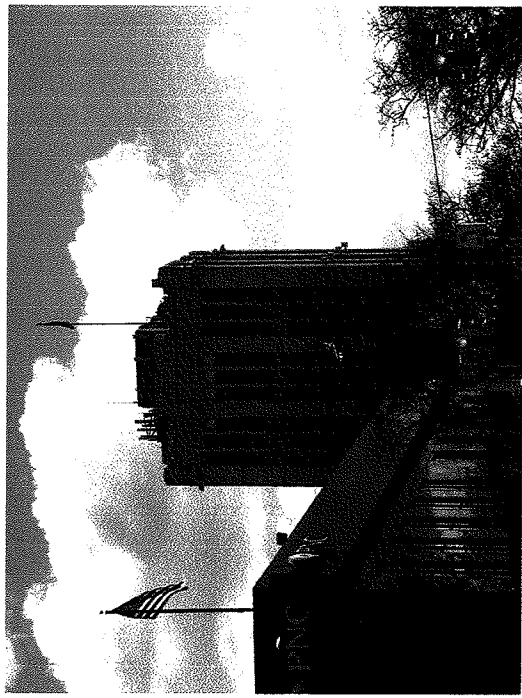
1. THE INSTALLATION, PROVISIONS, AND CONNECTION OF ALL ELECTRICAL WIRING AND RACEWAYS SHALL BE IN ACCORDANCE WITH THE (NEC) NATIONAL ELECTRICAL CODE AND/OR REQUIRED ON PLANS.
 2. THE INSTALLATION AND PROVISION OF AN ELECTRICAL CONDUIT AND WIRE ASSOCIATED WITH IT AS INDICATED AND/OR REQUIRED ON PLANS.
 3. THE INSTALLATION, PROVISION OF CONDUIT AND CONNECTIONS FOR LOCAL TELEPHONE SERVICE.
 4. FOUR INCH DIAMETER CONDUITS SHALL BE PVC SCHEDULE #40, UNLESS OTHERWISE NOTED.
 5. ALL FISH LINE SHALL BE LEFT IN CONDUITS (PVC) FOR FUTURE USE.
 6. THE CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL SERVICE ENTRANCE CONDUCTORS, CONDUIT AND WIRING TO THE SERVICE EQUIPMENT WITHIN THE BUILDING.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. EXTREME CAUTION IS TO BE EXERCISED IN AREAS THAT COULD POTENTIALLY CONTAIN UNDERGROUND UTILITIES. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND INTERFERENCE / LOSS OF SERVICE THAT MAY OCCUR TO ANY EXISTING TENANT AT THIS SITE.



CURRENT WESTERLY VIEW



PROPOSED WESTERLY VIEW



CURRENT SOUTHERLY VIEW



PROPOSED SOUTHERLY VIEW



CHRISTOPHER WZACNY AND ASSOCIATES INC.
 30150 TELEGRAPH ROAD, SUITE 114
 BINGHAM FARMS, MI 48022
 TEL: (248) 722-8516
 FAX: (248) 722-9610

REFER TO GRAPHIC SCALE FOR
 1"=117' DRAWINGS

M13408
 SITE NAME: FIRST NATIONAL
 AT&T FA#: 10086060

201 SOUTH MAIN ST
 ANN ARBOR
 MI 48104
 WASHTENAW COUNTY

REVISIONS

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IF IT IS NECESSARY TO MAKE ANY CHANGES TO THIS DRAWING, THE USER SHALL FIRST OBTAIN WRITTEN CONSENT FROM THE USER BY CMR.

SHEET TITLE: PHOTO SIMULATIONS

PROJECT NO.: M13408

SHEET NUMBER: **P-2**

DO NOT SCALE DRAWINGS



CURRENT WESTERLY VIEW



PROPOSED WESTERLY VIEW



CURRENT SOUTHERLY VIEW



PROPOSED SOUTHERLY VIEW



CHRISTOPHER WZAGNY AND ASSOCIATES INC.
 30100 TELEGRAPH ROAD, SUITE 114
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REFER TO GRAPHIC SCALE FOR
 1"=100' DRAWINGS

M13408
 SITE NAME: FIRST NATIONAL
 AT&T FA#: 10086060

201 SOUTH MAIN ST.
 ANN ARBOR
 MI 48104
 WASHTENAW COUNTY

REVISIONS

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IF IT IS NECESSARY TO MAKE ANY CHANGES TO THIS DRAWING, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY BY A WRITTEN INSTRUMENT. NO CHANGES SHALL BE MADE WITHOUT THE ARCHITECT'S WRITTEN CONSENT.

SHEET TITLE: PHOTO SIMULATION

PROJECT NO.: M13408

SHEET NUMBER: P-2

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