T-MOBILE PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY

- REMOVE (3) EXISTING PANEL ANTENNAS
- REMOVE (12) EXISTING DI-PLEXERS AT GRADE LEVEL
- INSTALL (3) NEW PANEL ANTENNAS
- INSTALL (3) NEW TMAs AT ANTENNA LEVEL
- INSTALL (3) NEW TRIPLEXERS AT GRADE LEVEL
- INSTALL (3) NEW FRBG's AT GRADE LEVEL
- NO AC ELECTRIC WORK; ALL DC ELECTRIC WORK UNDER 50V

SCOPE OF WORK

T··Mobile···

T-MOBILE SITE NUMBER:

A6C0070A

SITE NAME:

# MURIFIELD / DUBLIN WT
# CO-LOCATE WATER TOWER SITE

FILE COPY

16-096 ARTW

RECEIVED
OCT 24 2016
CITY OF DUBLIN
PLANNING


T··Mobile···

6200 OAK TREE BLVD.
SUITE 125
INDEPENDENCE, OH 44131
OFFICE: (216) 525-6000
FAX: (216) 525-6120

HARPER ENGINEERING, INC.
TELECOM GROUP
815 Superior Ave. Suite 1514
Cleveland, OH. 44114

Phone: (216)344-3855
Fax: (216)344-3856


## PROJECT TEAM


ENGINEER:

HARPER ENGINEERING, INC.
815 SUPERIOR AVE. SUITE 1514
CLEVELAND, OH. 44114
(216) 344-3855

CONTACT PERSON:

DAVID W. HARPER
(216) 344-3855


**DO NOT SCALE DRAWINGS**

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

**HANDICAP REQUIREMENTS**

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED

**OTHER REQUIREMENTS**

- FACILITY HAS NO PLUMBING OR PARKING
- NO GRADING WILL BE REQUIRED FOR THIS SITE.

## SITE INFORMATION

| | |
|---|---|
| FACILITY OCCUPANT: | T-MOBILE |
| LEASE AREA: | EXISTING |
| EQUIPMENT ENCLOSURE: | EXISTING |
| APPLICANT ID#: | A6C0070A |
| SITE ADDRESS: | 7697 AVERY ROAD<br>DUBLIN, OH 43017 |
| GOVERNING CODE: | OBC 2011/IBC 2009 |
| COUNTY: | FRANKLIN COUNTY |
| ZONING JURISDICTION: | CITY OF DUBLIN |
| APPLICANT: | T-MOBILE CENTRAL LLC<br>6200 OAK TREE BLVD. SUITE 125<br>INDEPENDENCE, OH 44131<br>KEITH MCCOMBS<br>OFFICE: (412) 519-4361 |

## APPROVALS

| | |
|---|---|
| SITE ACQUISITION | DATE |
| ZONING MANAGER | DATE |
| CONSTRUCTION MANAGER | DATE |
| RF ENGINEER | DATE |
| FIELD INSPECTOR | DATE |
| OWNER | DATE |

## SHEET INDEX

| SHEET | DESCRIPTION | REV. |
|---|---|---|
| T-1 | TITLE SHEET | 0 |
| A-1 | OVERALL & ENLARGED SITE PLAN | 0 |
| A-2 | ELEVATION & ANTENNA LAYOUTS | 0 |
| A-3 | ANTENNA DIAGRAM & MOUNTING DETAILS | 0 |

## DRAWING REVISIONS

| Rev. | Description: | Date: | Mgr. |
|---|---|---|---|
| A | For Approval | 08/18/16 | MCM |
| 0 | For Construction | 08/22/16 | MCM |

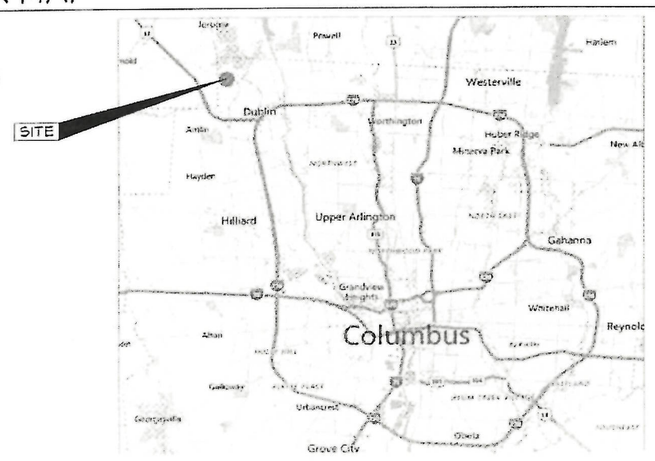
STATE OF OHIO
DAVID W. HARPER
53819
REGISTERED PROFESSIONAL ENGINEER
8-22-16

Engineer's Seal

## AREA MAP

NO SCALE

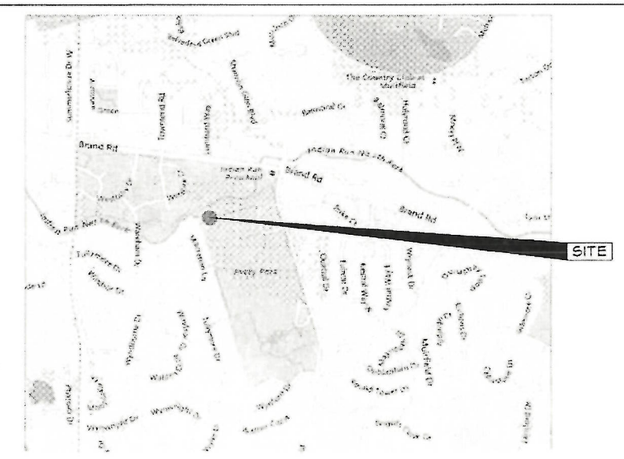
NORTH




## VICINITY MAP

NO SCALE

NORTH




| TOWER COORDINATES | |
|---|---|
| LATITUDE: | N. 40° 7' 40.479"<br>N. 40.12791142° |
| LONGITUDE: | W. -83° 9' 46.9866"<br>W. -83.163052° |

T-MOBILE
SITE NUMBER:
A6C0070A

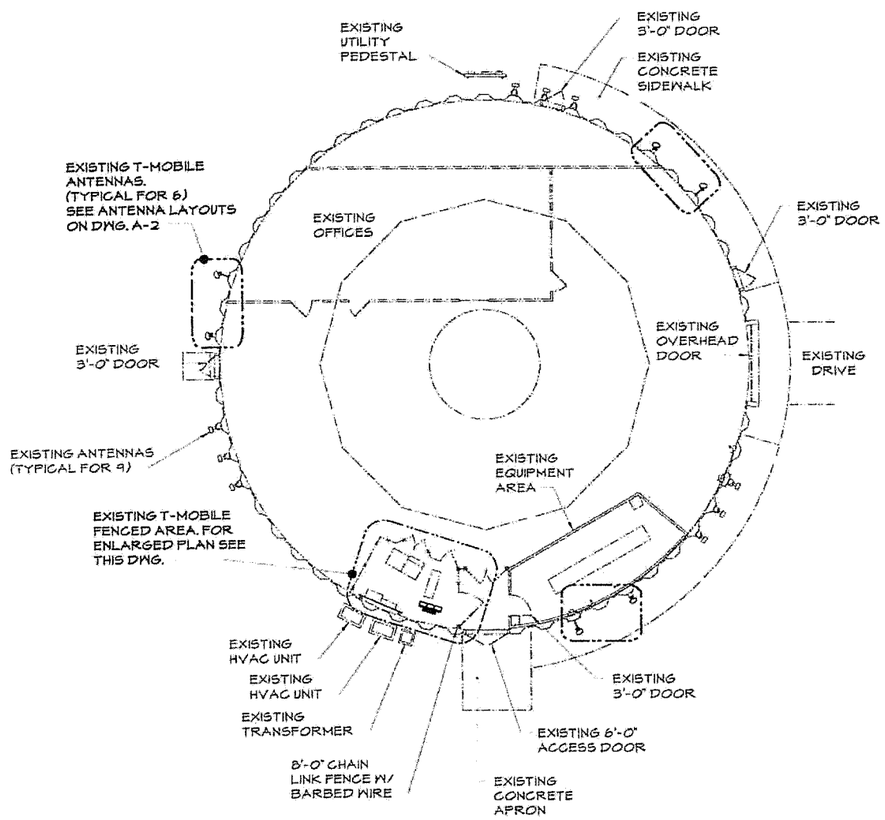
SITE NAME:
MURIFIELD / DUBLIN WT

7697 AVERY ROAD
DUBLIN, OH 43017

SHEET NAME:

# TITLE SHEET

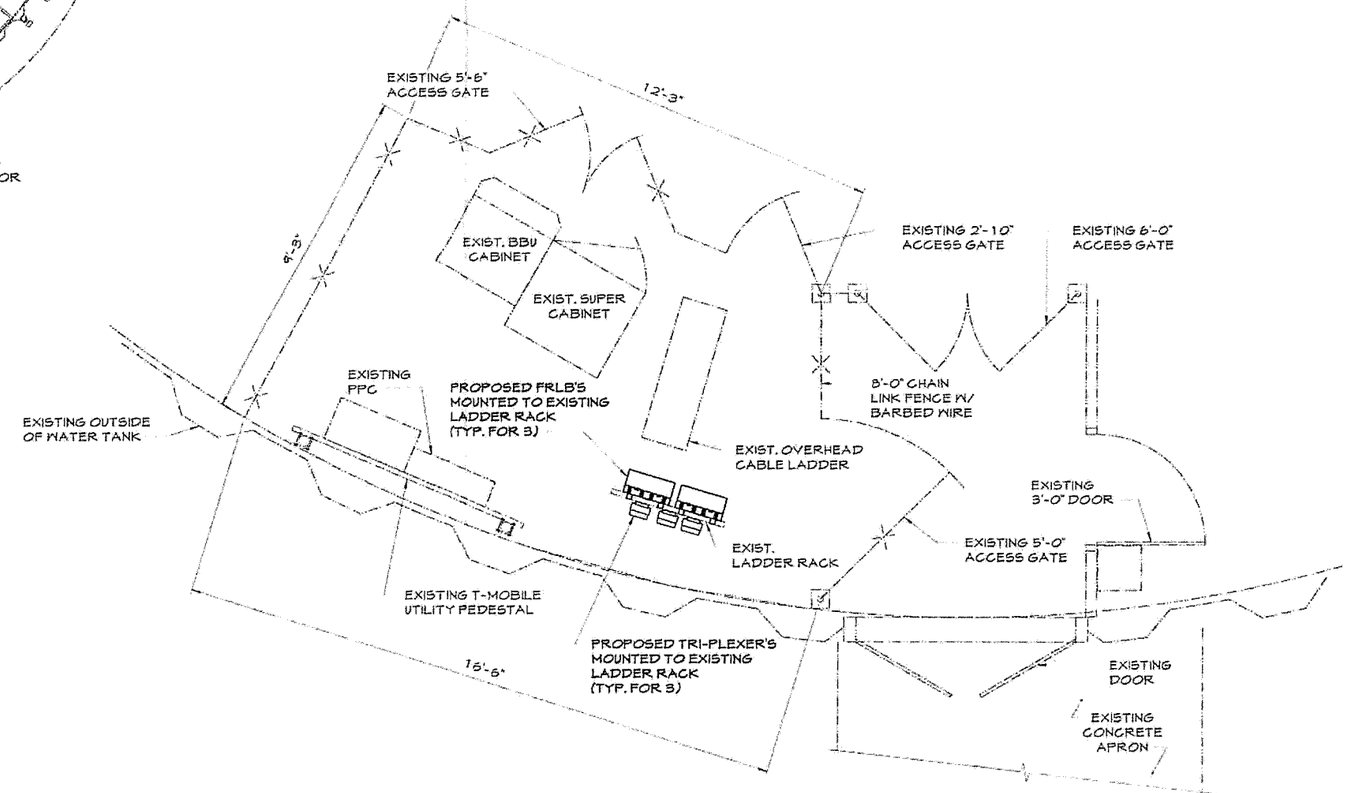
| SHEET No./Rev.: | |
|---|---|
| T-1/0 | SCALE AS NOTED |
| | DRAN BY: GP/TSB |
| | CHKD BY: MCM |
| | DATE: 07/27/16 |
| | FILE: 14-188-223 |




OVERALL SITE PLAN

SCALE: 3/32"=1'-0"

0 10 20




ENLARGED PLAN

SCALE: 1/2"=1'-0"

0 1 2 3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STATE OF OHIO
DAVID W. HARPER
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Engineer's Seal

T-MOBILE
SITE NUMBER:
A6C0070A

SITE NAME:
MURIFIELD / DUBLIN WT

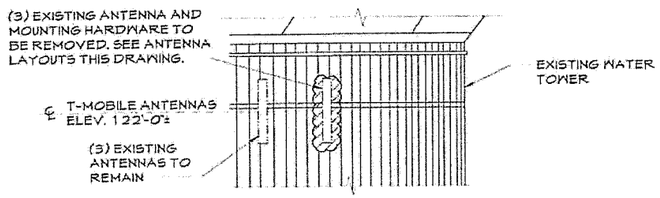
7697 AVERY ROAD
DUBLIN, OH 43017

SHEET NAME:

# OVERALL & ENLARGED SITE PLAN

SHEET No./Rev.: A-1/0

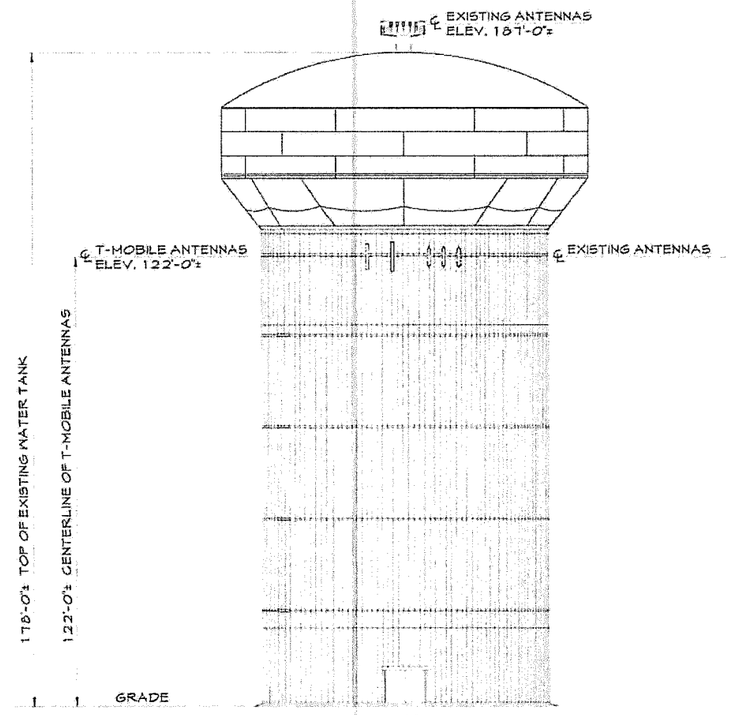
SCALE: AS NOTED
DRWN. BY: GP/TSB
CHKD. BY: MCM
DATE: 07/27/16
FILE: 14-158-223




PARTIAL DEMO ELEVATION

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

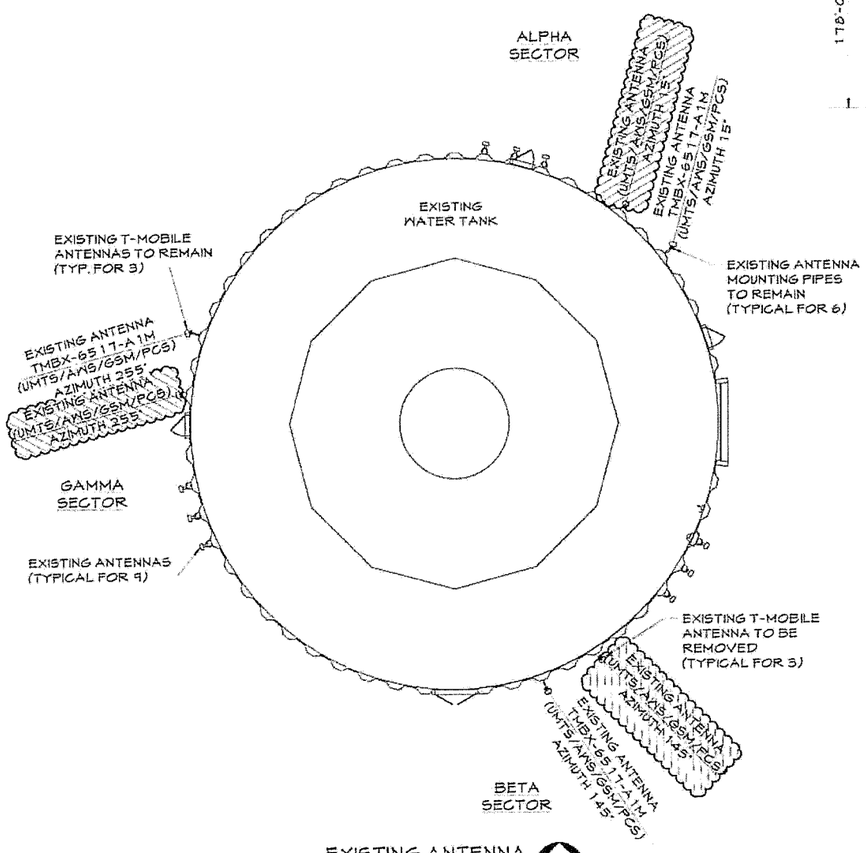
0 5 10 15




ELEVATION

SCALE: 1"=20'-0"

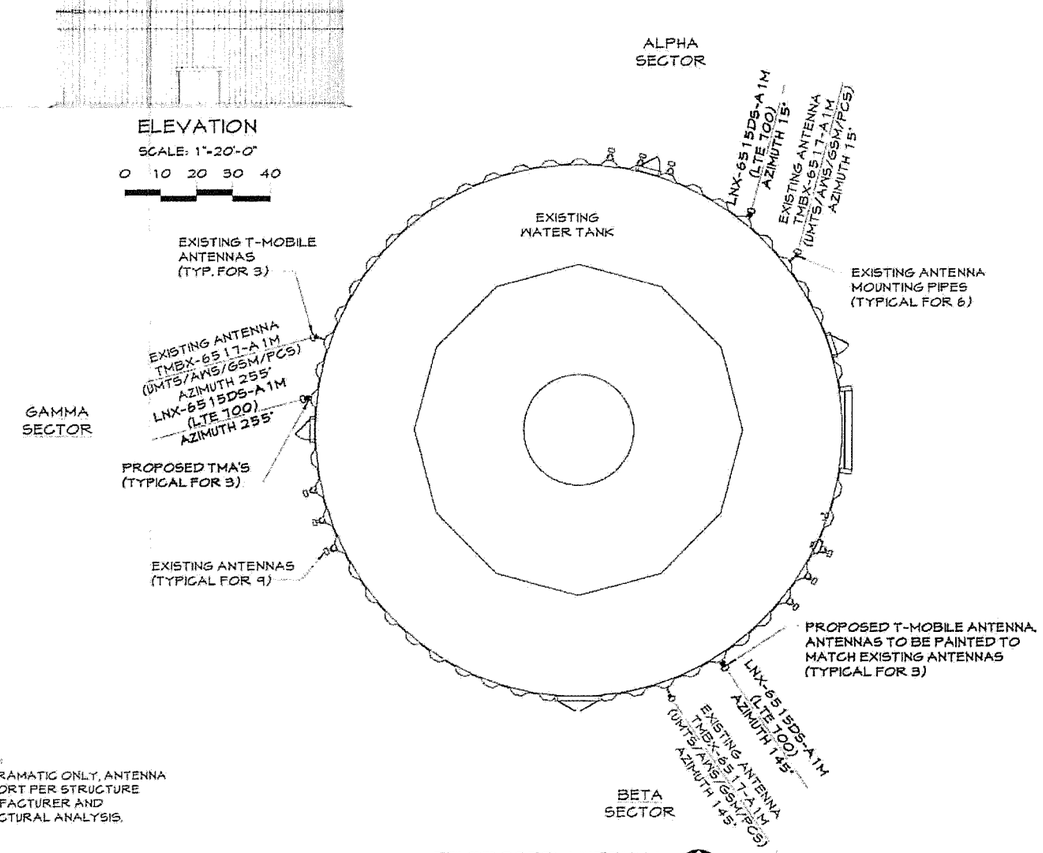
0 10 20 30 40




EXISTING ANTENNA LAYOUT @ 122'-0"

SCALE: NONE

NOTE:
DIAGRAMATIC ONLY, ANTENNA SUPPORT PER STRUCTURE MANUFACTURER AND STRUCTURAL ANALYSIS.




PROPOSED ANTENNA LAYOUT @ 122'-0"

SCALE: NONE

## ANTENNA REPLACEMENT NOTES:

1) CONTRACTOR TO INSPECT THE CONDITION OF EXISTING MOUNTING PIPES. CONFIRM THE FOLLOWING:
   - CORROSION; IF MOUNTS ARE FOUND TO BE CORRODED, CONTACT T-MOBILE REP. FOR DIRECTION.
   - CHECK CONDITION OF ATTACHMENT BOLTS. IF FOUND LOOSE, TIGHTEN TO ORIGINAL SPECIFICATIONS (AISC; TURN OF THE NUT METHOD).
   - IF BOLTS ARE MISSING, REPLACE TO SUITE.
   - CONFIRM MOUNTING PIPE IS ADEQUATELY SIZED TO ACCOMMODATE PROPOSED ANTENNA INSTALL.

2) ALL WORK DEPICTED ON THIS DRAWING DESIGNED IN ACCORDANCE WITH OBC 2011 AND AMENDMENTS.

## ANTENNA MOUNTING NOTES:

1. ANTENNA TO BE MOUNTED TO 2 3/8" O.D. SCH. 40 PIPE MAST. CONTRACTOR TO VERIFY PIPE MAST SIZE, LENGTH AND SCH. UPGRADE IF REQUIRED.
2. ANTENNA AND RRU CABLING TO BE CONNECTED PER RF DATA SHEET, PROVIDED BY RF ENGINEER.

**• ALL NEW EQUIPMENT/ANTENNAS TO BE PAINTED TO MATCH EXISTING EQUIPMENT/ANTENNAS**


T-Mobile

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8-22-16

Engineer's Seal

T-MOBILE
SITE NUMBER:
A6C0070A

SITE NAME:
MURIFIELD / DUBLIN NT

7697 AVERY ROAD
DUBLIN, OH 43017

SHEET NAME:

ELEVATION & ANTENNA LAYOUT

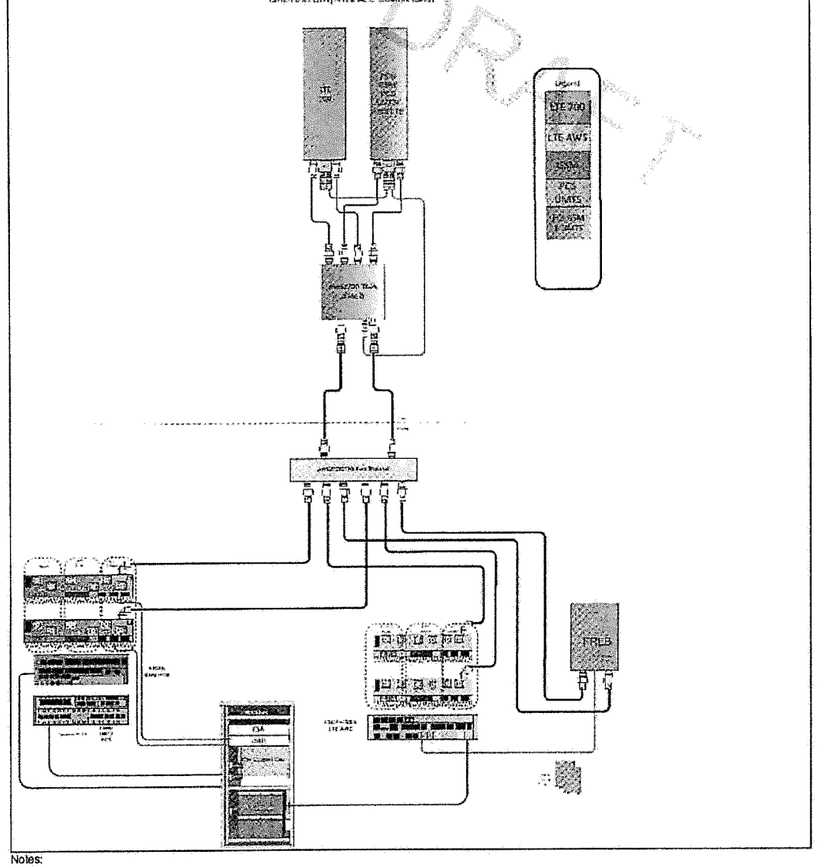
SHEET No./Rev.: A-2/0

SCALE: AS NOTED
DRWN. BY: GP/TSS
CHK'D. BY: MGM
DATE: 07/27/16
FILE: 14-188-223

## Section 3 - Proposed Template Images

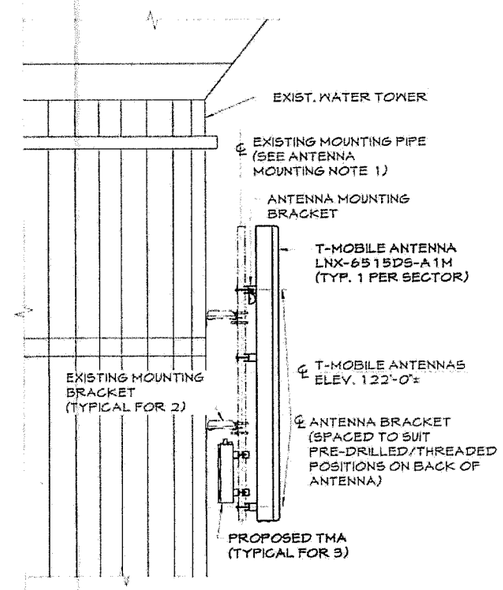
703E GTN_2 Lines_No U2100.jpg

**Configuration 703E GTN_2 Lines_No U2100**
**(FRLB Ground triplexed with a Quadport for 700/AWS/PCS)**

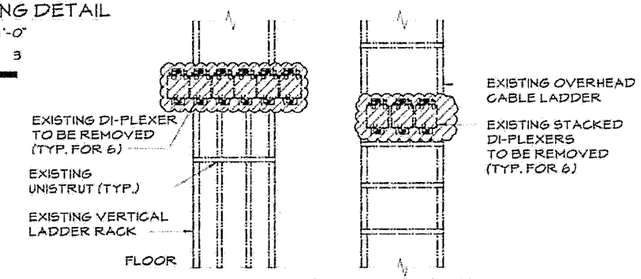



Notes:

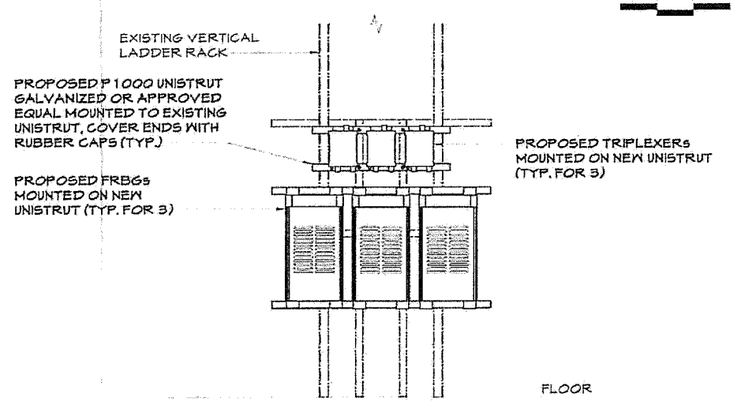





ANTENNA MOUNTING DETAIL
SCALE: 1/2"=1'-0"
0 1 2 3




PARTIAL EQUIP. DEMO PLAN
SCALE: 1/2"=1'-0"
0 1 2 3




EQUIPMENT MOUNTING DETAIL
SCALE: 3/4"=1'-0"
0 1 2

NOTES:

1. ANTENNA TO BE MOUNTED TO EXISTING GALV. 2 1/8" O.D. SCH. 40 PIPE MAST. CONTRACTOR TO VERIFY PIPE MAST SIZE, LENGTH AND SCH. UPGRADE IF REQUIRED.
2. ANTENNA AND RRU CABLING TO BE CONNECTED PER RF DATA SHEET, PROVIDED BY RF ENGINEER.

*** NEW EQUIPMENT / ANTENNAS TO BE PAINTED TO MATCH EXISTING EQUIPMENT / ANTENNAS**

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7697 AVERY ROAD
DUBLIN, OH 43017

SHEET NAME:
ANTENNA DIAGRAM & MOUNTING DETAILS

SHEET No./Rev.: RF-1/0

SCALE: AS NOTED
DRWN BY: GP/TSB
CHK'D BY: MCM
DATE: 07/27/16
FILE: 14-188-223