

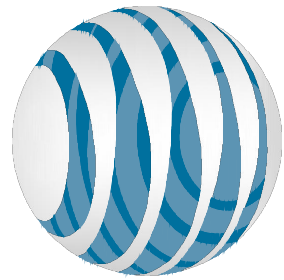
LOT COVERAGE RATIOS					
LOT	TOTAL SURFACE AREA	EXISTING IMPERVIOUS SURFACE AREA	EXISTING RATIO	PROPOSED IMPERVIOUS SURFACE AREA	PROPOSED RATIO
23-A-92B	258,319 SF	62,077 SF	24.03%	260 SF	0.10%
23-A-90D	126,281 SF	694 SF	0.01%	0 SF	0.00%



smartlink

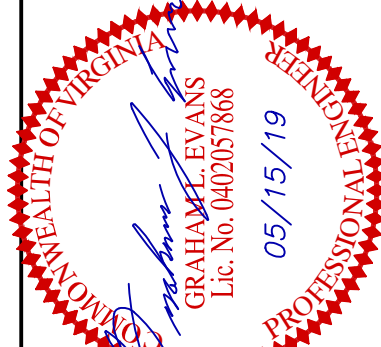
**1997 ANNAPOLIS EXCHANGE
PARKWAY, STE 200
ANNAPOLIS, MD 21401**

**GDP FOR SPECIAL USE PERMIT
TAX MAP #: 23-A-92B & 23-A-92DD
SITE: RAYNOLD
SITE ID # 6138
FA # 12837662
801 MAPLE GROVE DRIVE
FREDERICKSBURG, VIRGINIA 22407**



at&t
Mobility

NO.	DATE	REVISIONS	BY	CHK APP'D	DESIGNED BY: PJB	DRAWN BY: PJB
SCALE:	AS SHOWN					
6	05/15/19	PER COUNTY COMMENTS	CMD	GLE	GLE	
5	12/28/18	PER COUNTY COMMENTS	SMO	GLE	GLE	
4	11/16/18	PER COUNTY COMMENTS	SMO	GLE	GLE	
3	08/09/18	PER COMMENTS	DWP	GLE	GLE	
2	08/06/28	PER COMMENTS	JMR	GLE	GLE	



GDP APPROVAL BLOCK

SIGNATURE

DATE

COMPOUND PLAN

PROJECT NUMBER:

JOB NUMBER

DRAWING NUMBER

REV

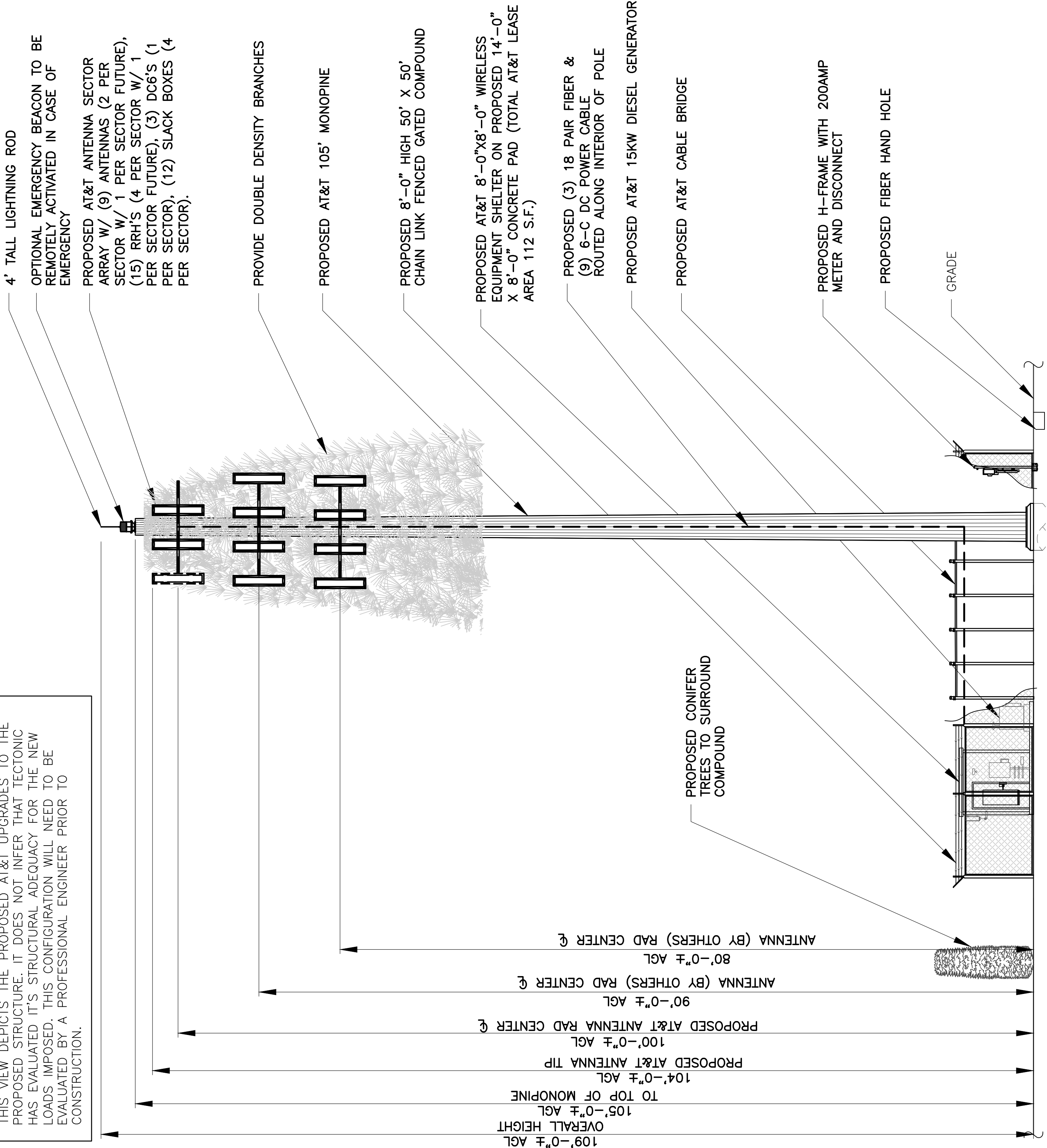
7386.RAYNOLDS

C2

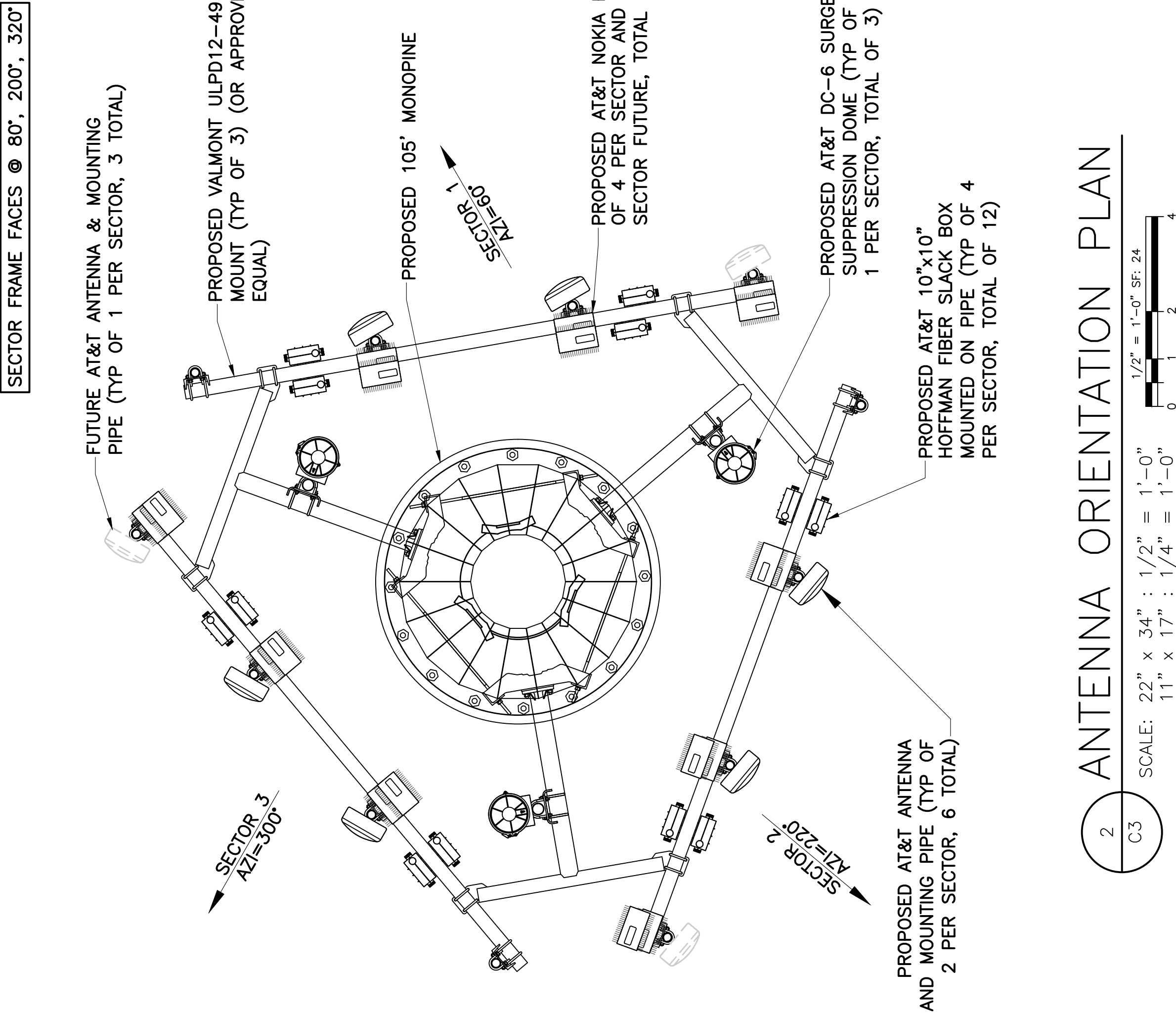
6

STRUCTURAL NOTE

THIS VIEW DEPICTS THE PROPOSED AT&T UPGRADES TO THE PROPOSED STRUCTURE. IT DOES NOT INFER THAT TECTONIC HAS EVALUATED IT'S STRUCTURAL ADEQUACY FOR THE NEW LOADS IMPOSED. THIS CONFIGURATION WILL NEED TO BE EVALUATED BY A PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.



1 ELEVATION - SOUTHEAST
C3
SCALE: 22" x 34" : 1/8" = 1'-0"
11" x 17" : 1/16" = 1'-0"
1/8" = 1'-0" SF. 96



2 ANTENNA ORIENTATION PLAN
C3
SCALE: 22" x 34" : 1/2" = 1'-0"
11" x 17" : 1/4" = 1'-0"
1/2" = 1'-0" SF. 24

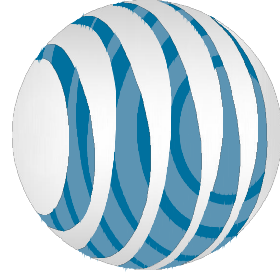
GDP APPROVAL BLOCK

SIGNATURE	DATE
ELEVATIONS AND ANTENNA PLAN	
PROJECT NUMBER:	
JOB NUMBER	DRAWING NUMBER
7386.RAYNOLDS	C3
REV	6



NO.	DATE	REVISIONS	BY	CHK	APP'D
6	05/15/19	PER COUNTY COMMENTS	CMD	GLE	GLE
5	12/28/18	PER COUNTY COMMENTS	SMD	GLE	GLE
4	11/16/18	PER COUNTY COMMENTS	SMD	GLE	GLE
3	08/09/18	PER COMMENTS	DWP	GLE	GLE
2	08/06/28	PER COMMENTS	JMR	GLE	GLE

SCALE: AS SHOWN DESIGNED BY: PUB DRAWN BY: PUB



AT&T MOBILITY CORP.
7150 STANDARD DRIVE
HANOVER, MD 21076
(410) 782-8015



1997 ANNAPOLIS EXCHANGE
PARKWAY, STE 200
ANNAPOLIS, MD 21401

GDP FOR SPECIAL USE PERMIT
TAX MAP #: 23-A-92B & 23-A-92D

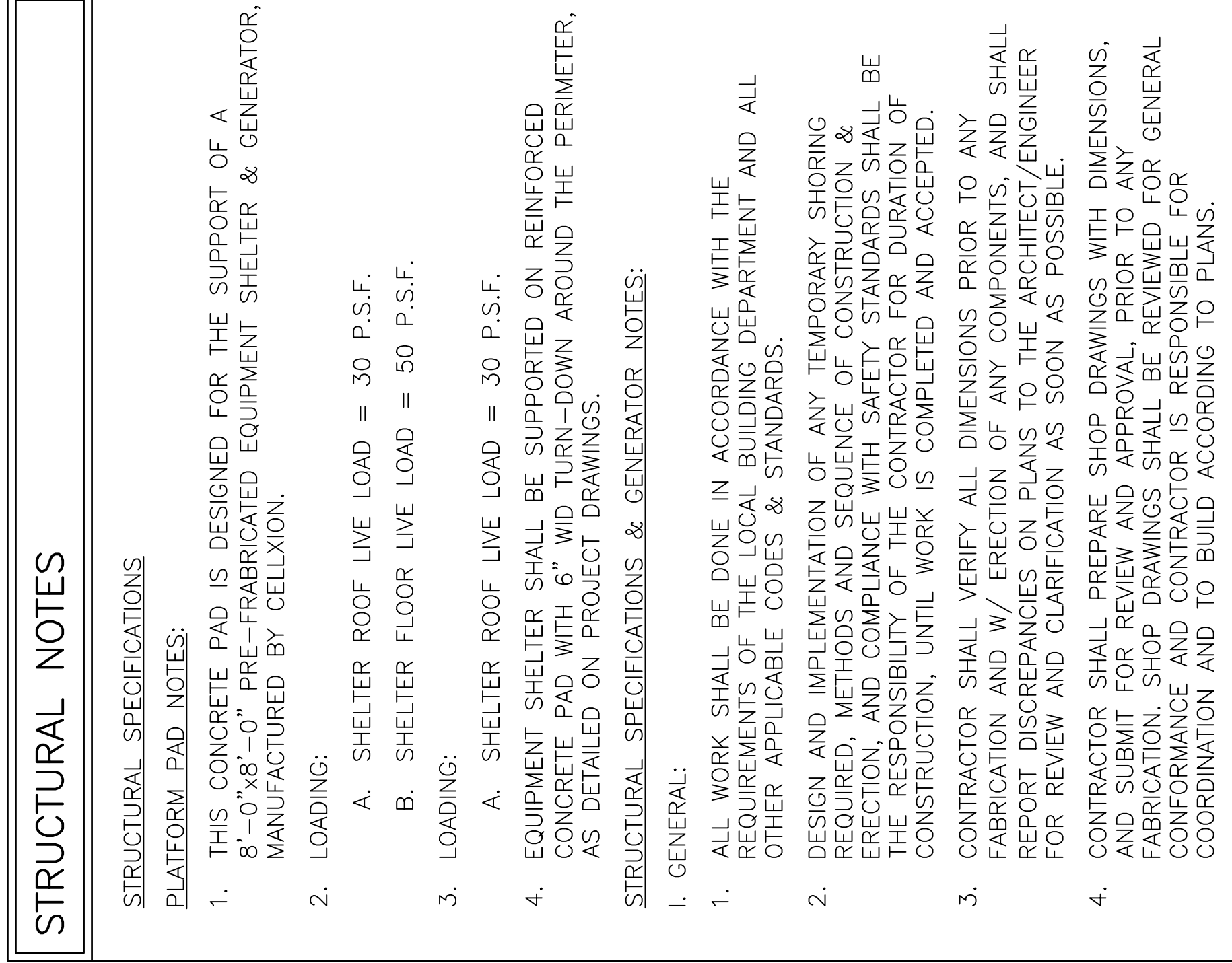
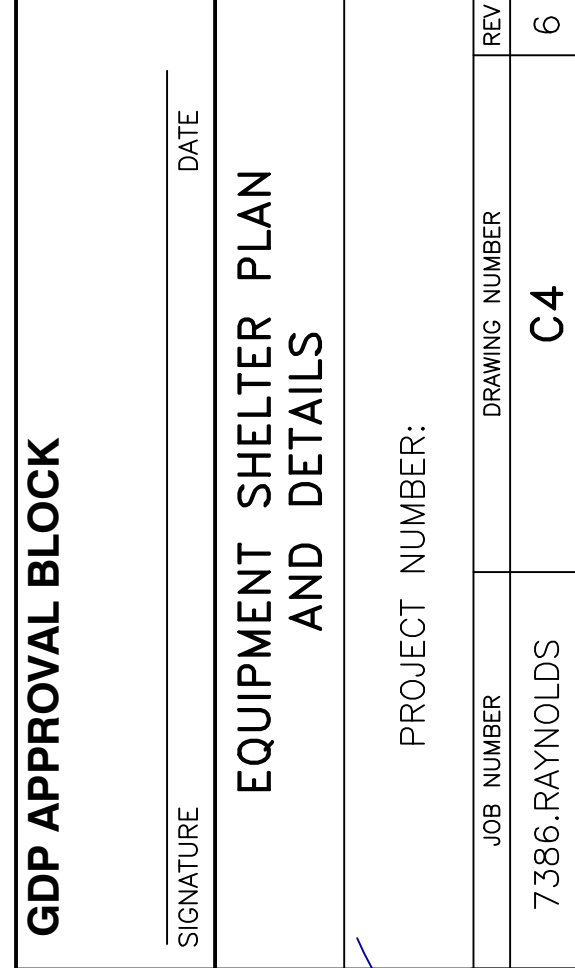
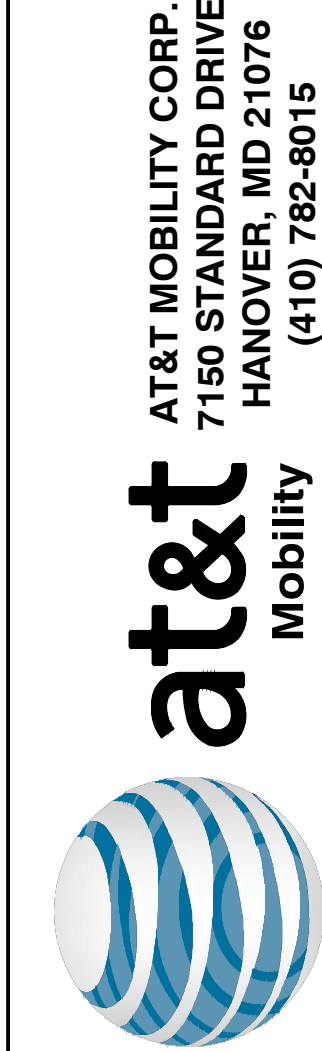
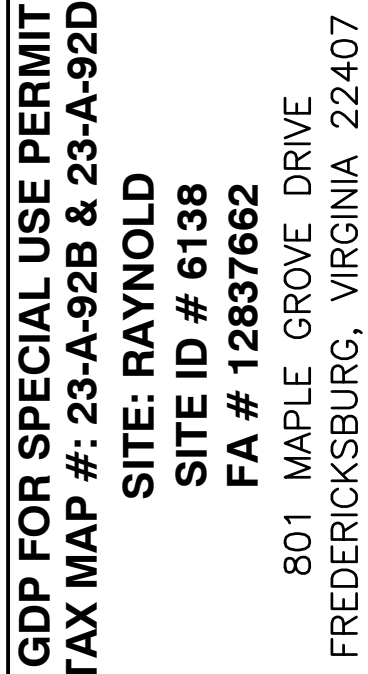
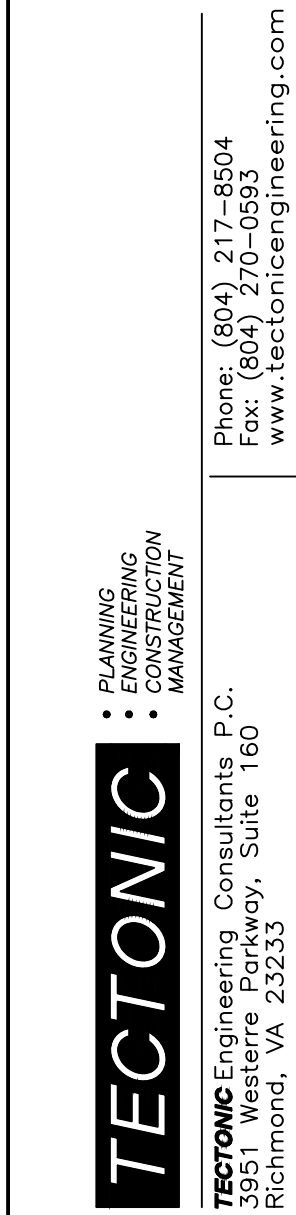
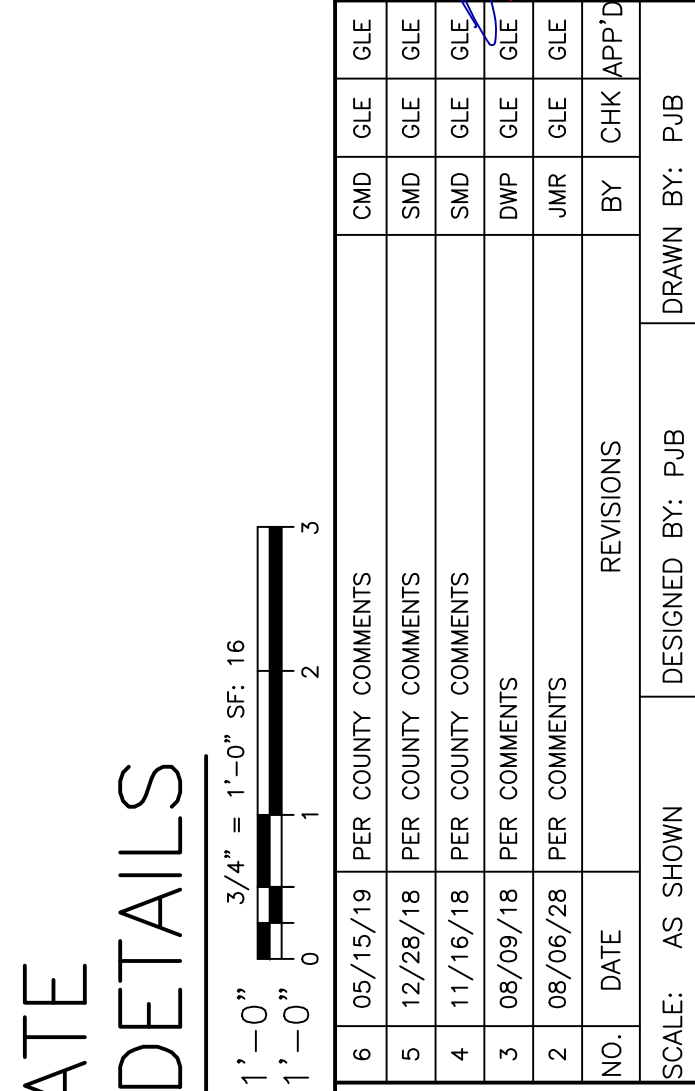
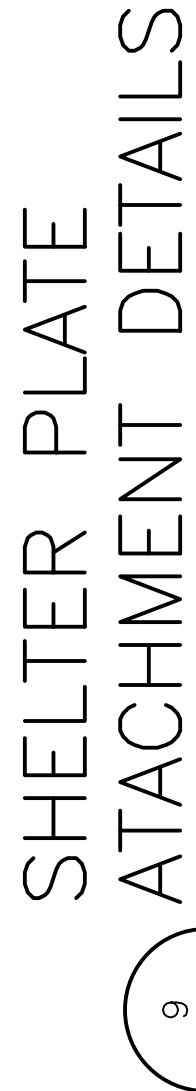
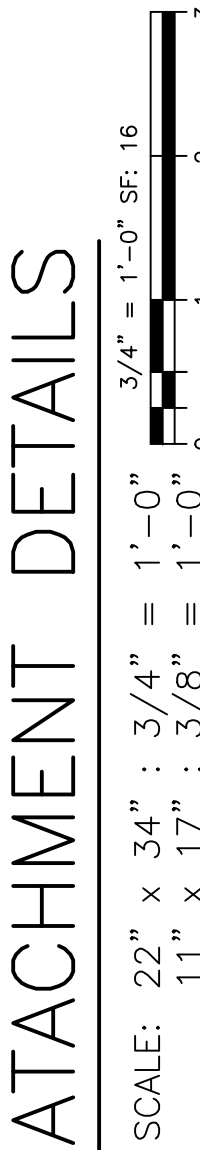
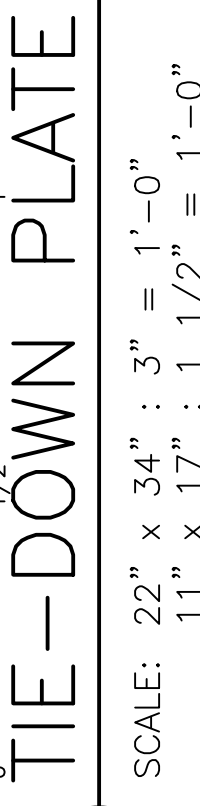
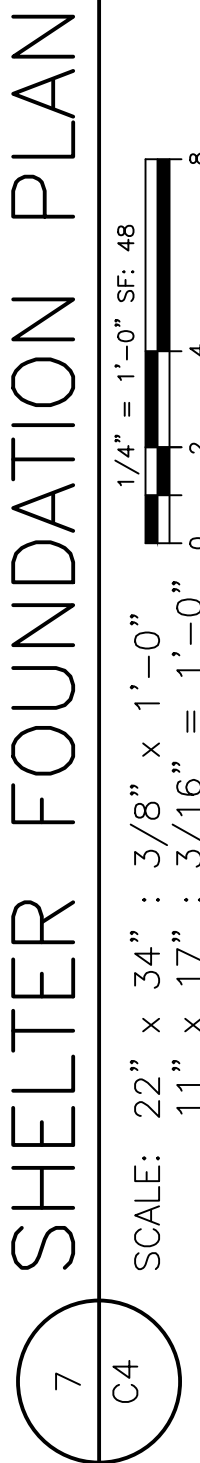
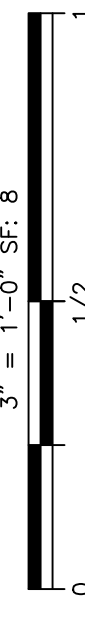
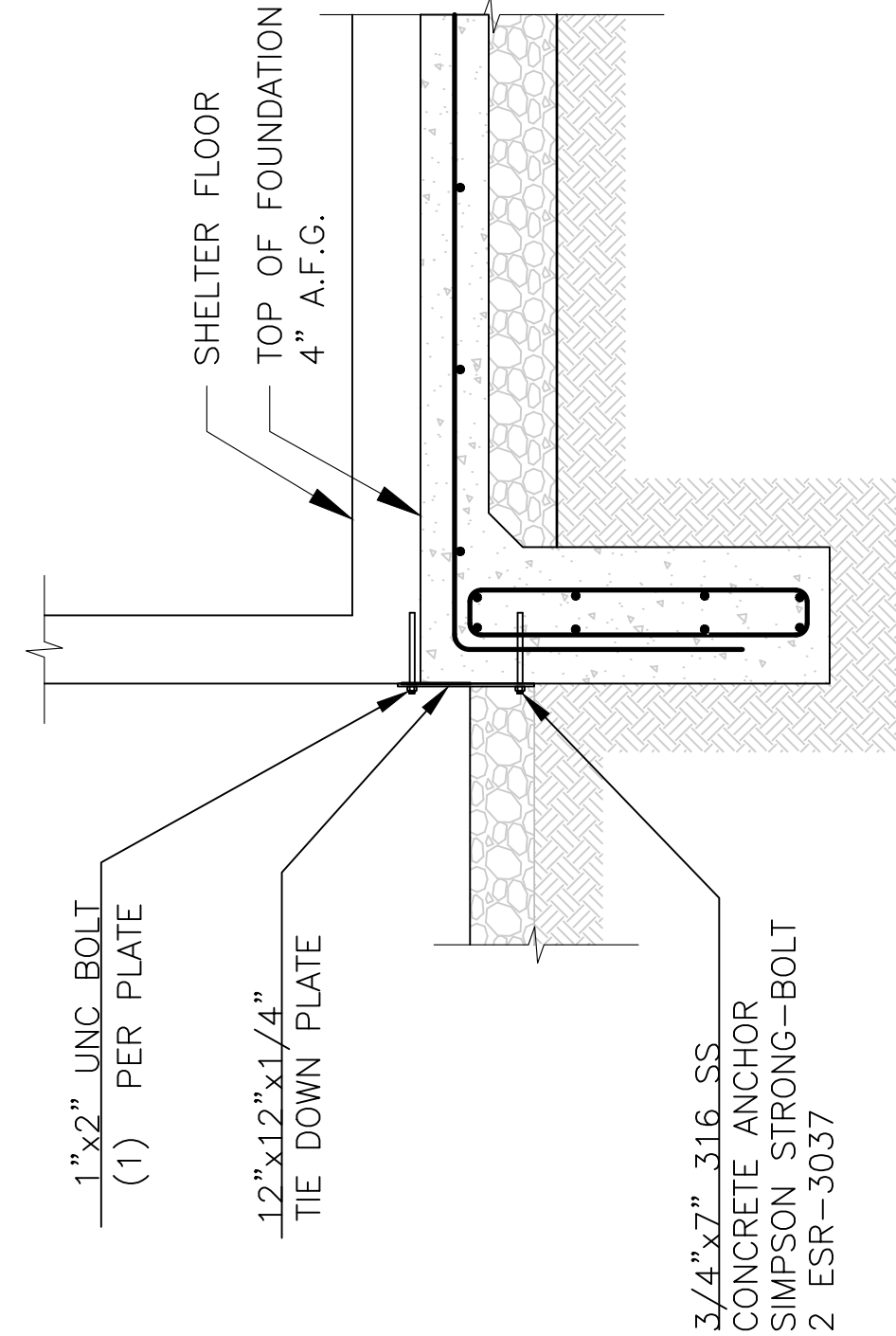
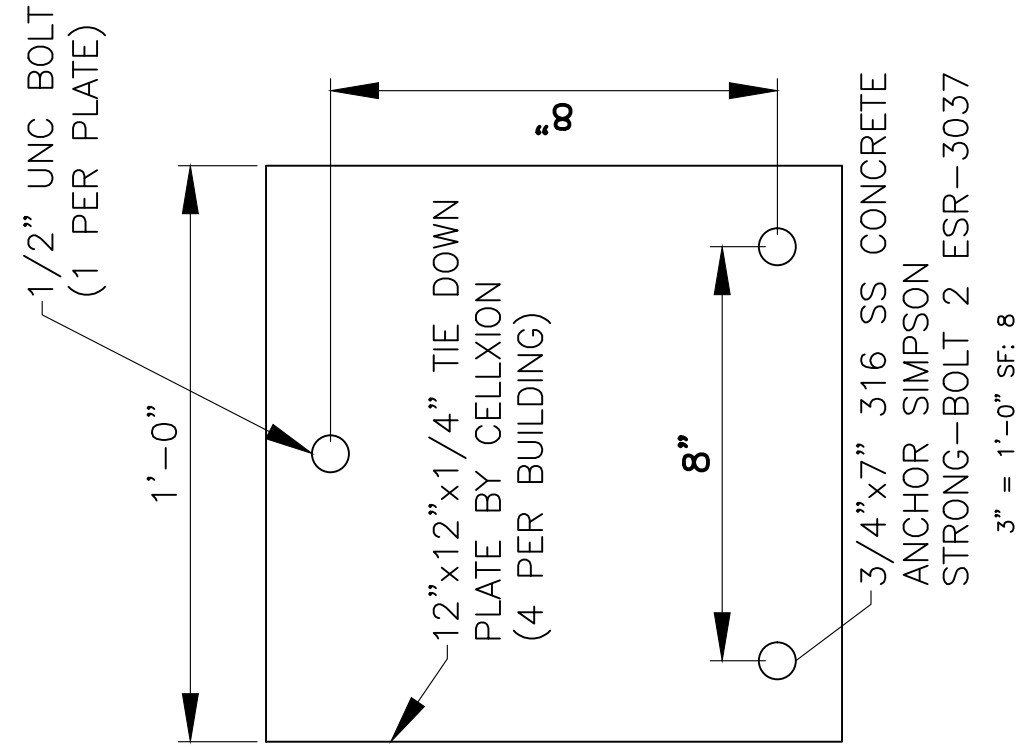
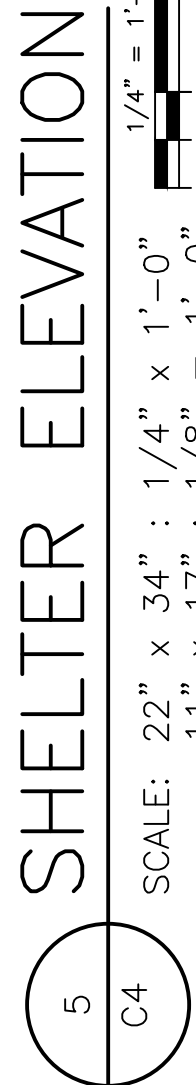
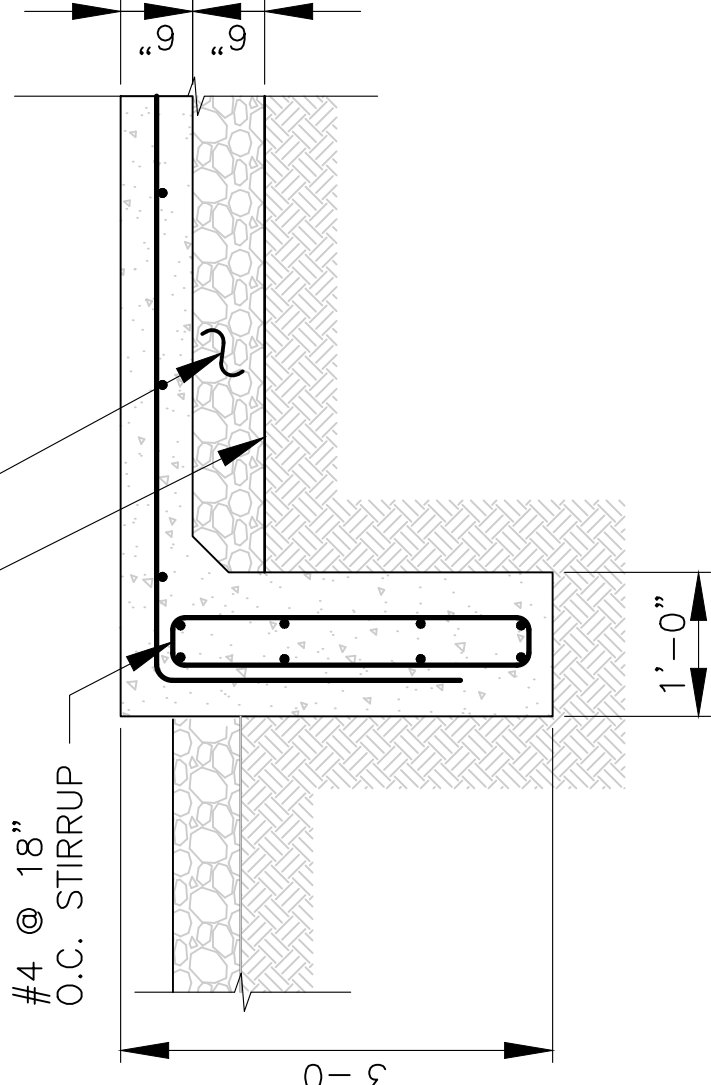
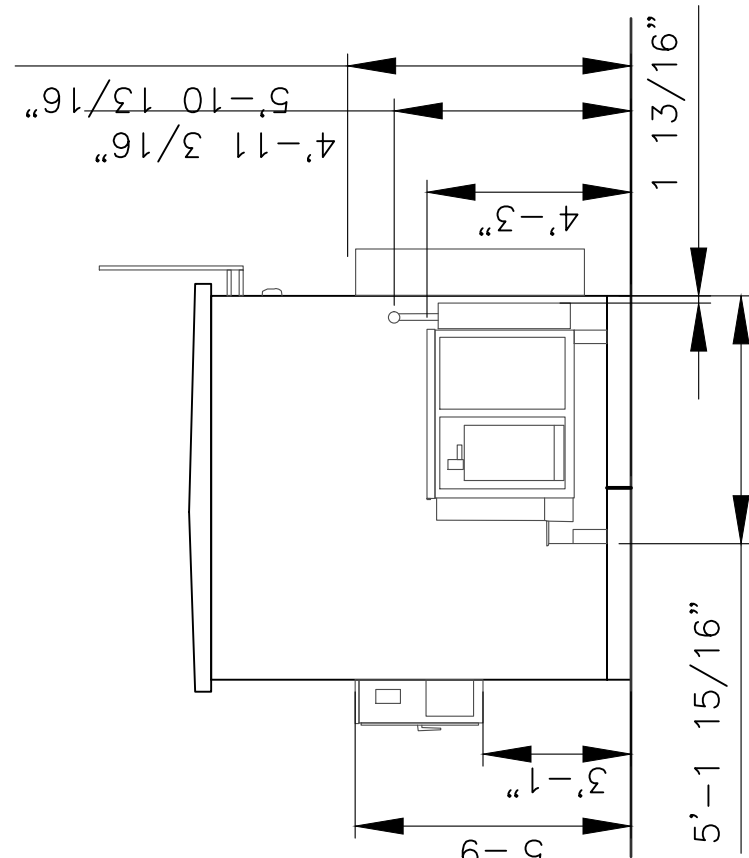
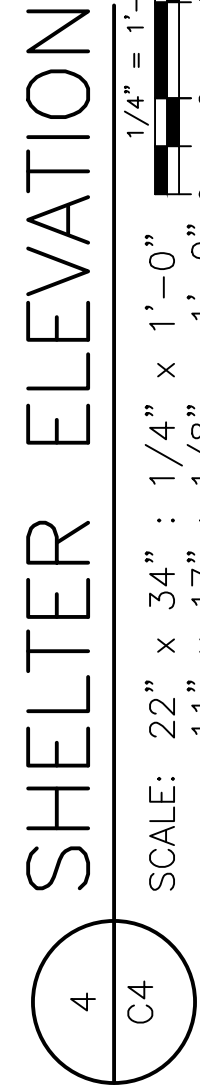
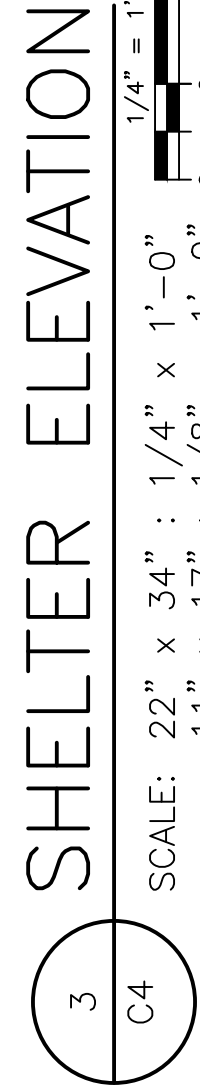
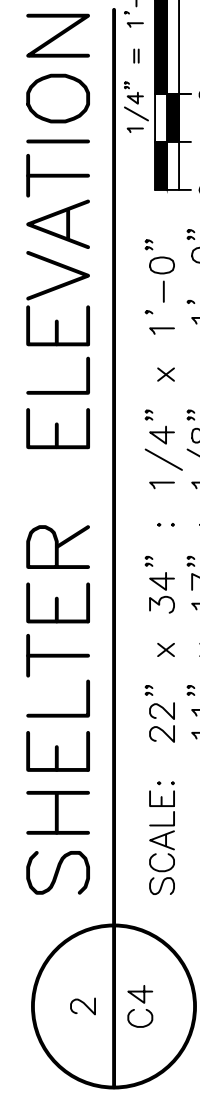
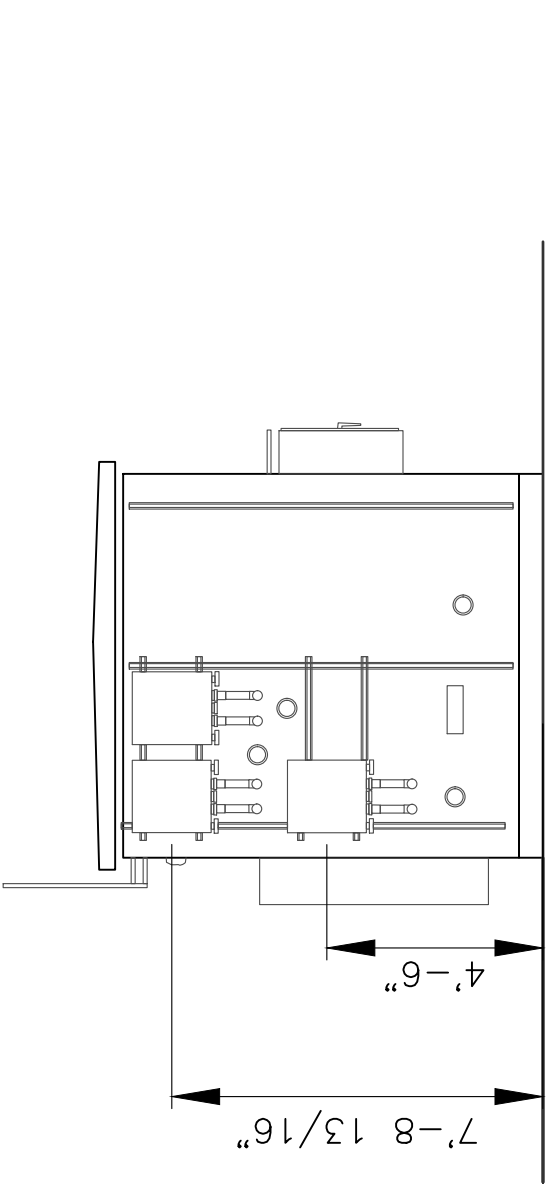
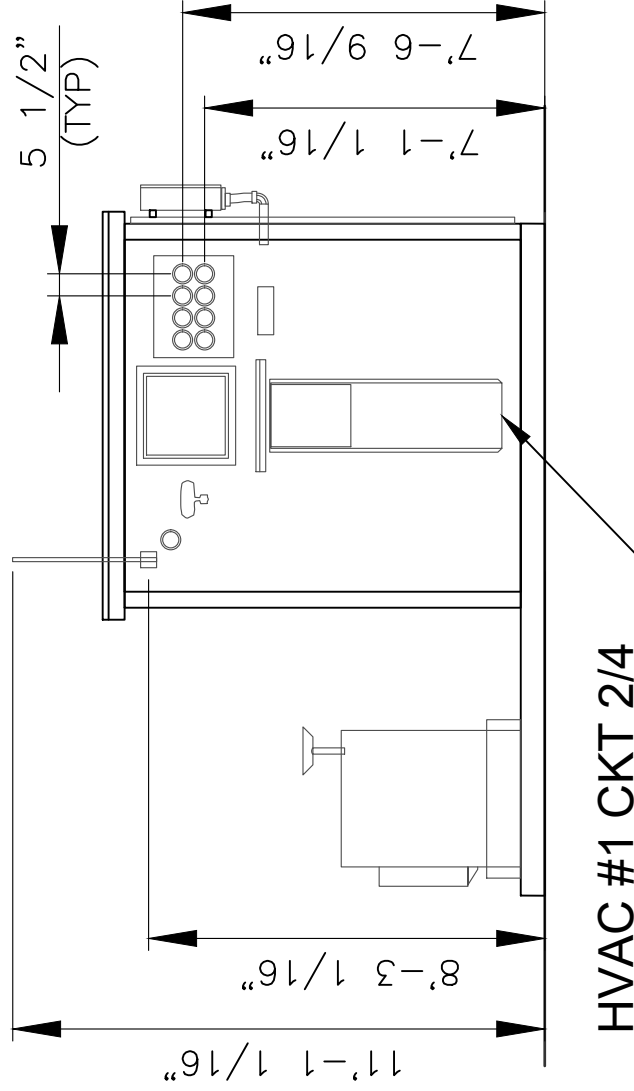
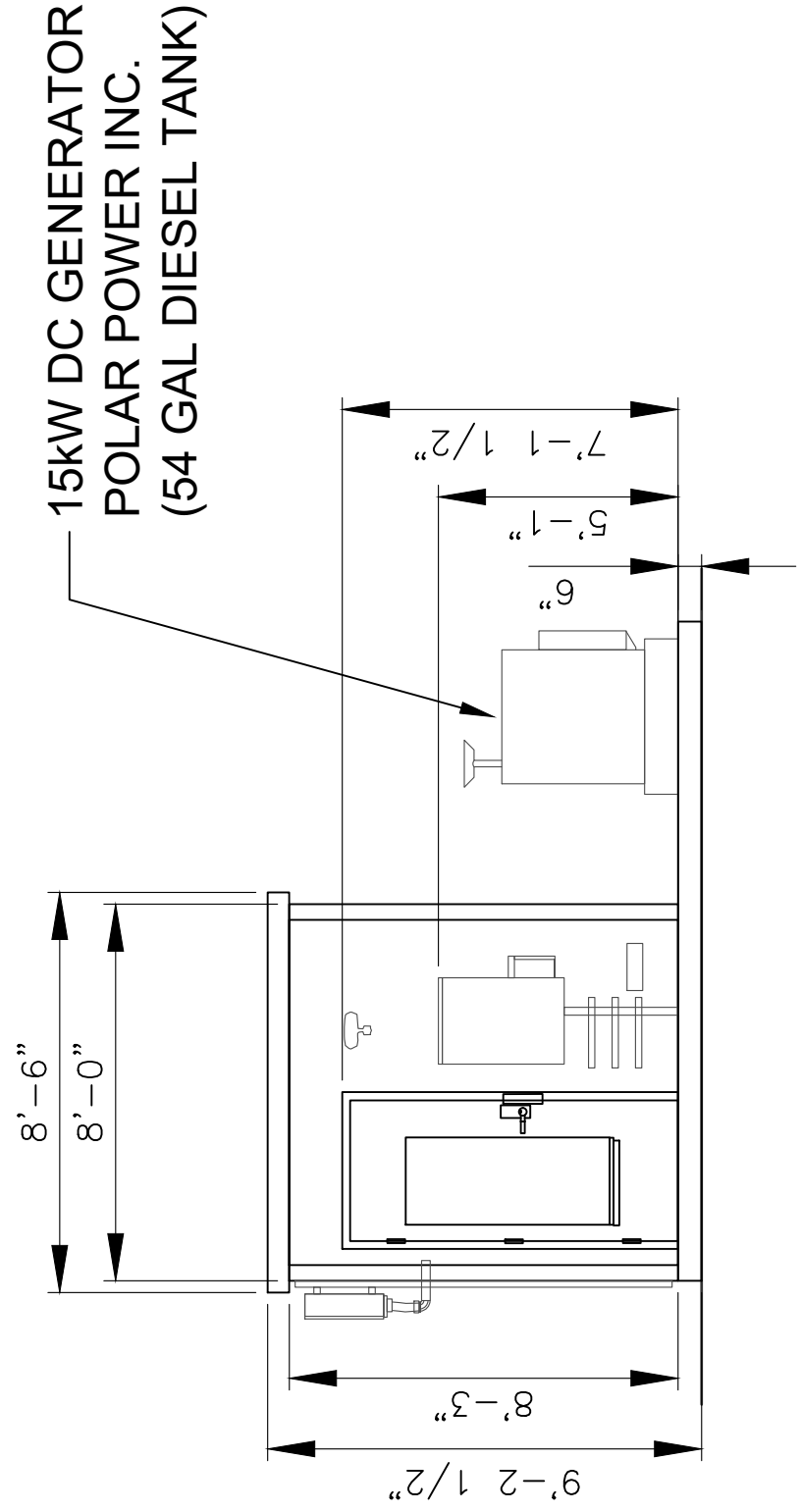
SITE: RAYNOLD
SITE ID # 6138
FA # 12837662

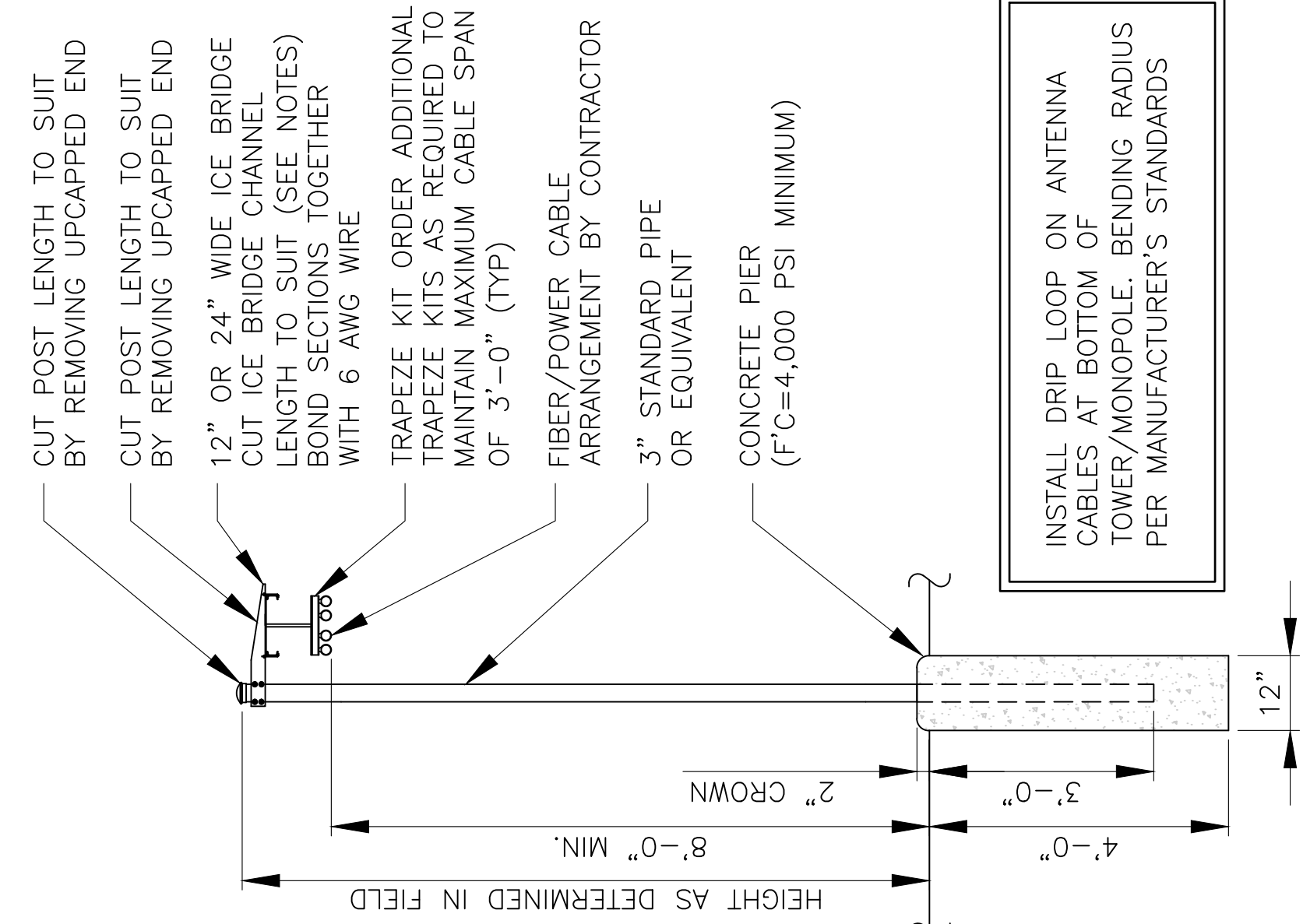
801 MAPLE GROVE DRIVE
FREDERICKSBURG, VIRGINIA 22407



TECTONIC Engineering Consultants P.C.
3951 Westerre Parkway, Suite 160
Richmond, VA 23233

Phone: (804) 217-8504
Fax: (804) 270-0593
www.tectonicengineering.com

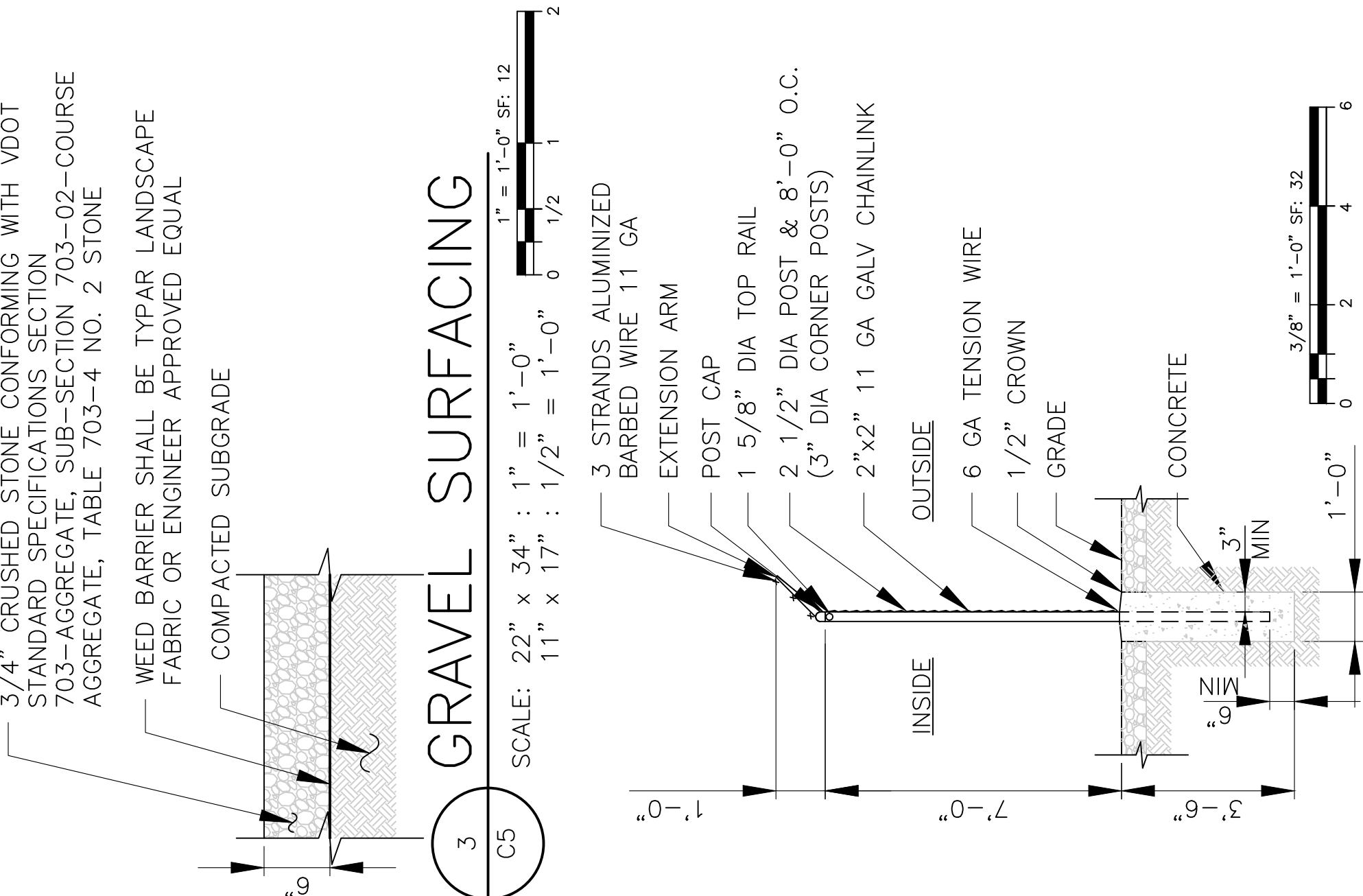




1 ICE BRIDGE DETAIL

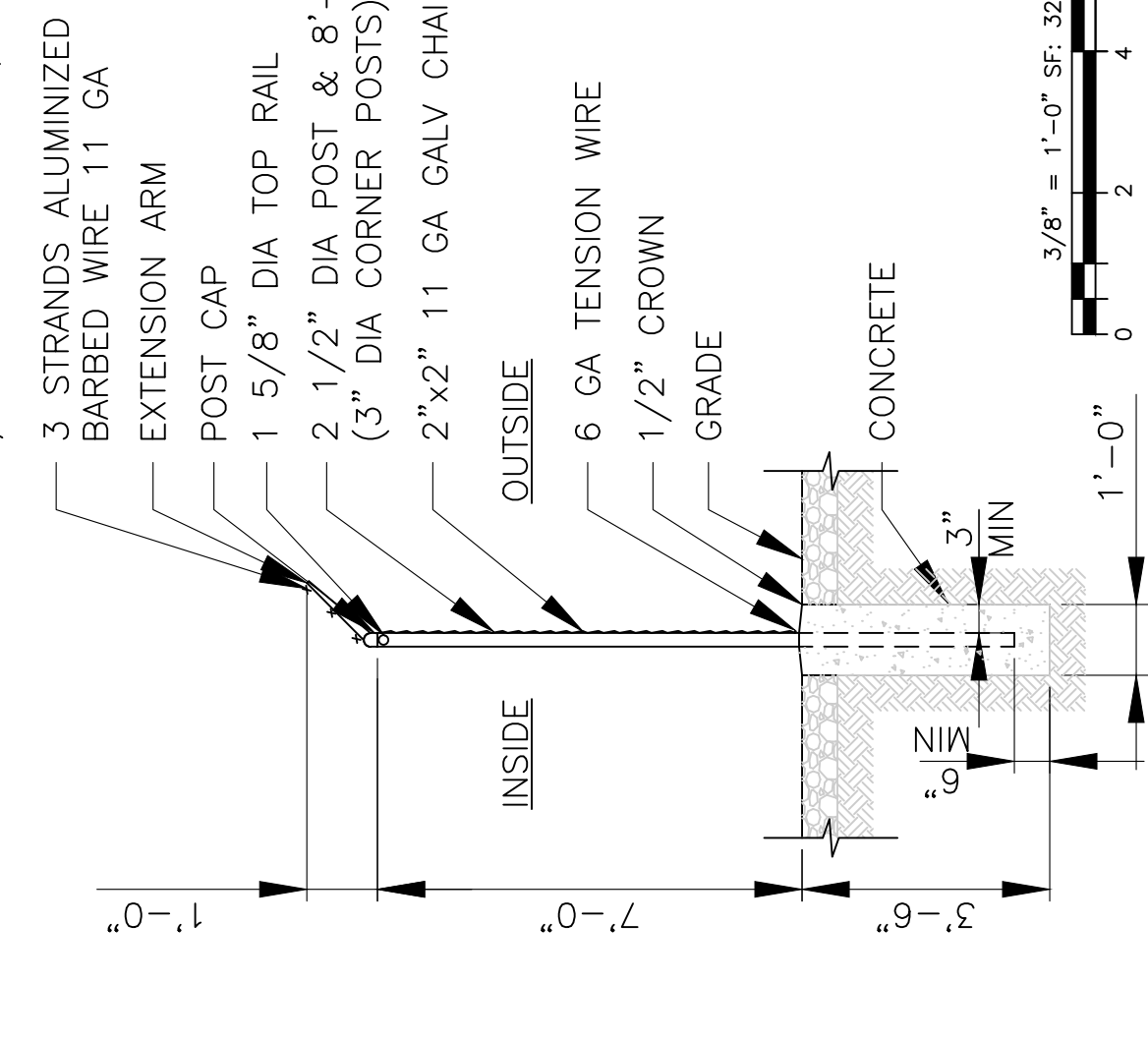
SCALE: N.T.S.

- NOTES:
- WHEN USING COMPONENTS AS SHOWN IN STANDARD DETAILS, MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON A CONTINUOUS SINGLE SECTION OF BRIDGE CHANNEL SHALL BE 6 FEET.
 - WHEN USING COMPONENTS FOR SPLICING BRIDGE CHANNEL SECTIONS, THE SPLICE SHOULD BE PROVIDED AT THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
 - WHEN USING COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE ENDS OF ICE BRIDGES, WITH A MAXIMUM CANTILEVER DISTANCE OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
 - CUT BRIDGE CHANNEL SECTIONS SHALL HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THESE EDGES TO THE ORIGINAL CHANNEL, OR EQUIVALENT, FINISH.
 - ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM OTHER MANUFACTURERS, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
 - DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
 - DEVIATIONS FROM ICE BRIDGE FOUNDATIONS REQUIRE ENGINEERING APPROVAL.
 - THE DESIGN IS BASED ON ASCE 7-05, 3 SECOND GUST WIND SPEED OF 90 MPH, EXPOSURE C, ELEVATION AT GRADE.
 - THE DESIGN IS BASED ON 24" WIDE ICE BRIDGE, 3" STD PIPE, AND (12) 1 5/8" DIA. COAX CABLES IN 3 ROWS OF 4 AND POST SUPPORT SPACING OF 6'-0".
 - HEIGHT OF POST SHALL BE 10'-6" MAX. ABOVE GROUND LEVEL.



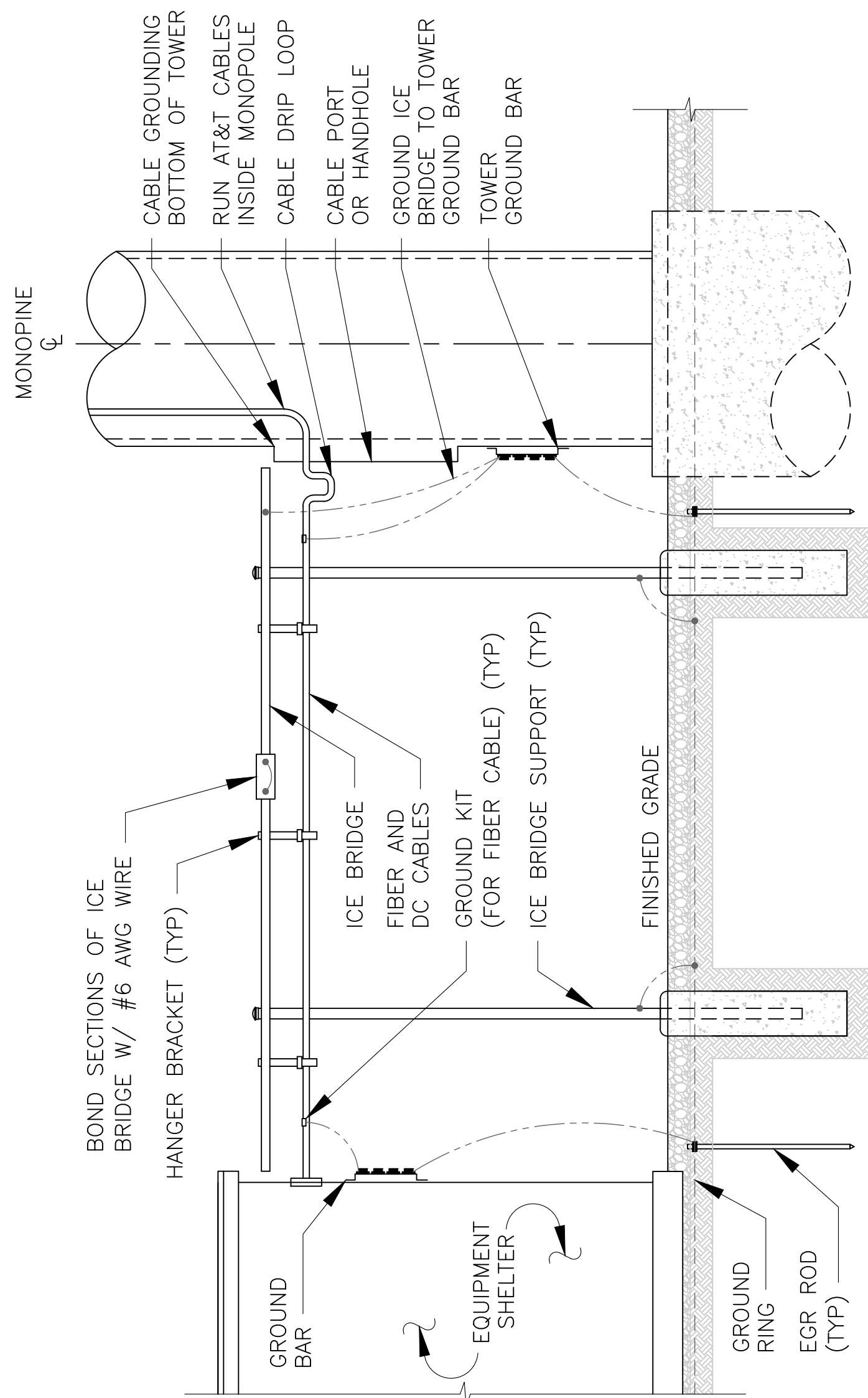
3 GRAVEL SURFACING

SCALE: 22" x 34" : 1" = 1'-0" ; 11" x 17" : 1/2" = 1'-0"



4 FENCE DETAIL

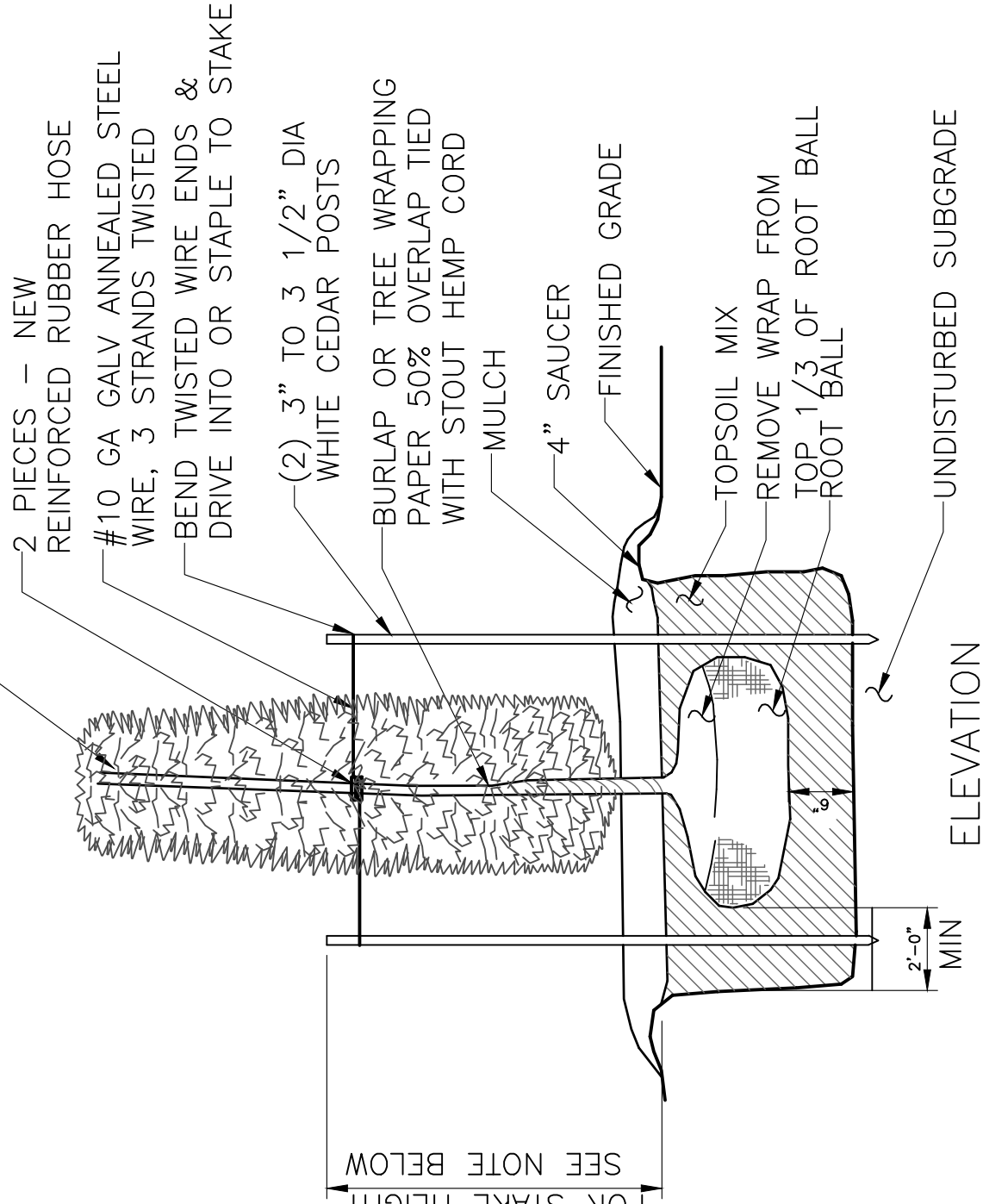
SCALE: 22" x 34" : 3/8" = 1'-0" ; 11" x 17" : 3/16" = 1'-0"



2 ICE BRIDGE DETAIL

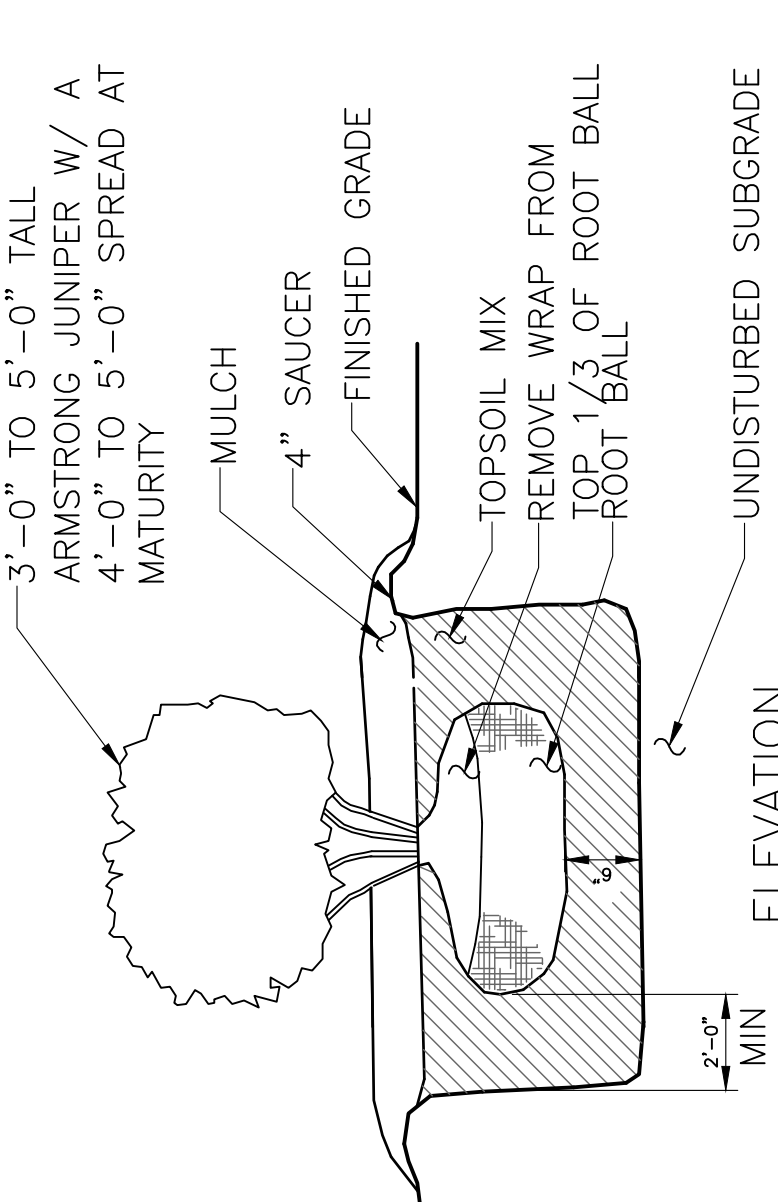
SCALE: N.T.S.

6'-0" TALL LEYLAND CYPRRESS



6 TREE DETAIL

SCALE: 22" x 34" : 1/2" = 1'-0" ; 11" x 17" : 1/4" = 1'-0"



6 BUSH DETAIL

SCALE: 22" x 34" : 1/2" = 1'-0" ; 11" x 17" : 1/4" = 1'-0"



1997 ANNAPOLIS EXCHANGE PARKWAY, STE 200 ANNAPOLIS, MD 21401

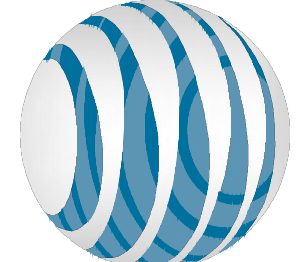


TECTONIC Engineering Consultants P.C. 3951 Westerre Parkway, Suite 160 Richmond, VA 23233 Phone: (804) 217-8504 Fax: (804) 270-0593 www.tectonicingeering.com

GDP FOR SPECIAL USE PERMIT TAX MAP #: 23-A-92B & 23-A-92D

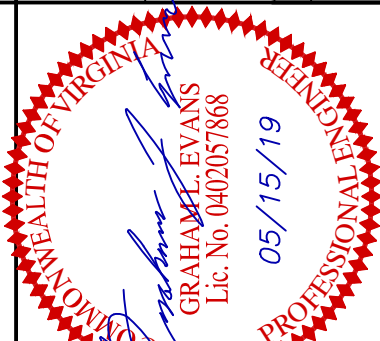
SITE: RAYNOLD SITE ID # 6138 FA # 12837662

801 MAPLE GROVE DRIVE FREDERICKSBURG, VIRGINIA 22407



at&t Mobility AT&T MOBILITY CORP. 7150 STANDARD DRIVE HANOVER, MD 21076 (410) 782-8015

NO.	DATE	REVISIONS	BY	CHK	APP'D
6	05/15/19	PER COUNTY COMMENTS	CMD	GLE	GLE
5	12/28/18	PER COUNTY COMMENTS	SMD	GLE	GLE
4	11/16/18	PER COUNTY COMMENTS	SMD	GLE	GLE
3	08/09/18	PER COMMENTS	DMP	GLE	GLE
2	08/06/28	PER COMMENTS	JMR	GLE	GLE
1					



COMPOUND NOTES AND DETAILS

PROJECT NUMBER:

JOB NUMBER	DRAWING NUMBER	REV
7386.RAYNOLD	C5	6

GDP APPROVAL BLOCK

SIGNATURE DATE



smartlink

**1997 ANNAPOLIS EXCHANGE
PARKWAY, STE 200
ANNAPOLIS, MD 21401**

**GDP FOR SPECIAL USE PERMIT
TAX MAP #: 23-A-92B & 23-A-92D**

SITE: RAYNOLD

SITE ID # 6138

FA # 12837662

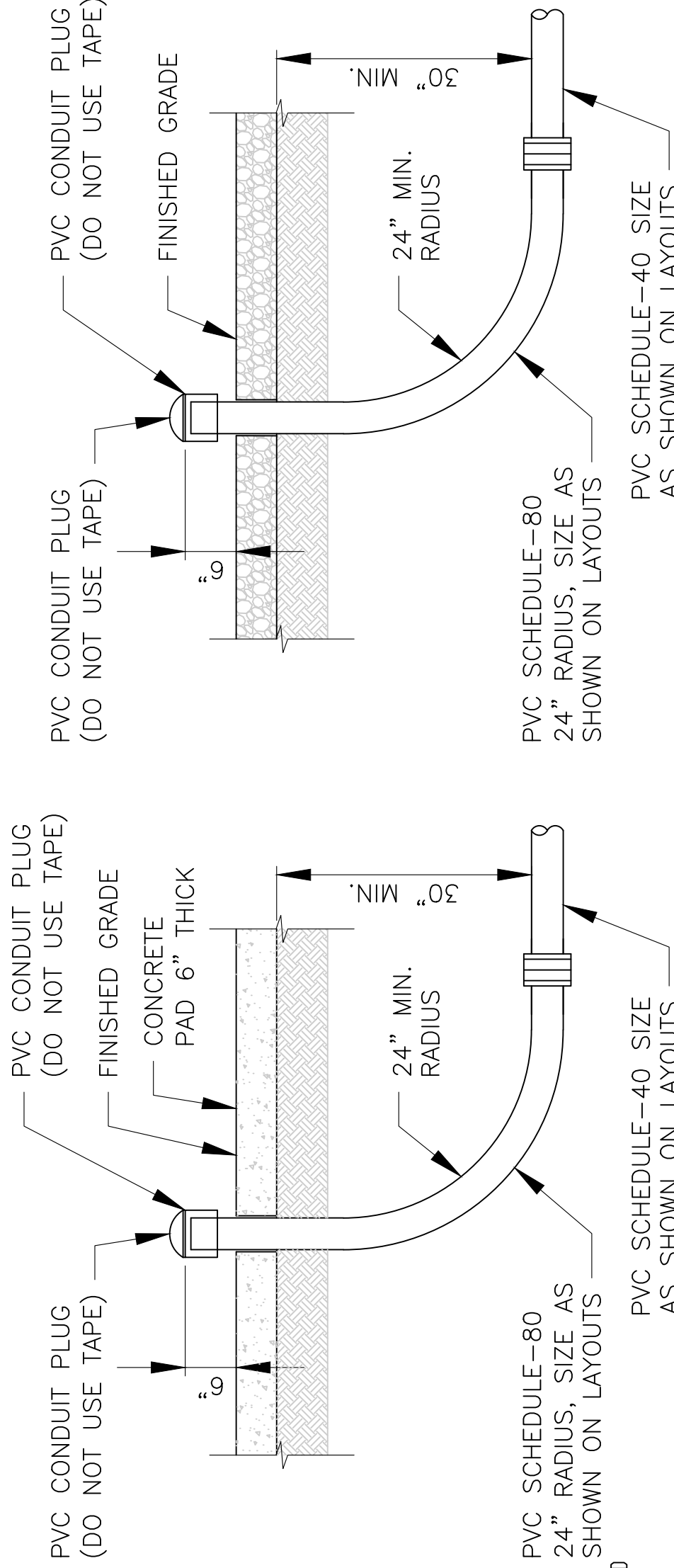
801 MAPLE GROVE DRIVE
FREDERICKSBURG, VIRGINIA 22407

at&t
Mobility

AT&T MOBILITY CORP.
7150 STANDARD DRIVE
HANOVER, MD 21076
(410) 782-8015

6	05/15/19	PER COUNTY COMMENTS	OMD	GLE	GLE
5	12/28/18	PER COUNTY COMMENTS	SMD	GLE	GLE
4	11/16/18	PER COUNTY COMMENTS	SMD	GLE	GLE
3	08/09/18	PER COMMENTS	DWP	GLE	GLE
2	08/06/28	PER COMMENTS	JMR	GLE	GLE
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE:	AS SHOWN	DESIGNED BY:	PJB	DRAWN BY:	PJB

GENERATOR SPECIFICATIONS AND DETAILS		
PROJECT NUMBER:		
JOB NUMBER	DRAWING NUMBER	REV
7386.RAYNOLDS	C6	6



GENERATOR STUB-UP DETAILS

SCALE: N.T.S.

WEIGHT: 759 LBS (WITHOUT FUEL)

POLAR POWER 8220-100-D-15 OR EQUAL

NOTES:

1. 12 VOLT NEGATIVE GROUND SYSTEM.
2. GENERATOR MUST BE GROUNDED
3. CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
4. MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST. SEE SPEC. SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
5. MUST ALLOW FREE FLOW INTAKE AIR. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
6. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED.
7. IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
8. 54 GALLON USEABLE CAPACITY BASKET/ANK IS INCLUDED WITH GENERATOR.

CABLE SCHEDULE AND RF SYSTEM DESIGN PLAN

SECTOR	ANTENNA TECHNOLOGY	ANTENNA POSITION	ANTENNA MODEL	RAD. CTR.	AZIMUTH	RRH MAKE	RRH MODEL	FIBER/POWER LOCATION	TMA	APPROX. LENGTH	JUMPER LENGTH	SYSTEM TYPE	ANTENNA PORT #	TAG #	ELECTRICAL DOWNTILT	MECHANICAL DOWNTILT
1		1	-	-	-	-	-	(1) 18 PAIR FIBER-OPTIC TRUNK CABLES (SHARED) (3) 6-C DC POWER	-	-	-	-	-	-	-	-
	-					-	-		-			-	-	-		
	-					-	-		-			-	-	-		
	LTE-700/1900 AWS	2	KATHREIN 80010966K	100'-0"	60°	NOKIA	4T4R B12/B14		LTE L700	2.1 & 2.2	ATT 2.1 & 2.2	2				
	NOKIA					4T4R B25/B66	LTE U700		2.3 & 2.4	ATT 2.3 & 2.4	2.5					
	-					-	LTE 1900		2.5 & 2.6	ATT 2.5 & 2.6	2					
LTE-850/WCS	3	KATHREIN 80010966K	100'-0"	60°	NOKIA	4T4R B5	LTE AWS	2.7 & 2.8	ATT 2.7 & 2.8	2.5						
-					-	-	-	-	-							
NOKIA					4T4R B5	LTE 850	3.1 & 3.2	ATT 3.1 & 3.2	2							
	LTE-700	4 (FUTURE)	TBD	100'-0"	60°	NOKIA	700D (FUTURE)	5G 850	3.3 & 3.4	ATT 3.3 & 3.4	2.5					
	-					-	LTE WCS	3.5 & 3.6	ATT 3.5 & 3.6	2						
	-					-	LTE WCS	3.7 & 3.8	ATT 3.7 & 3.8	-						
								</								



• PLANNING

• ENGINEERING

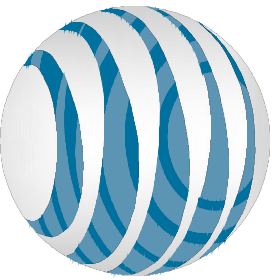
• CONSTRUCTION MANAGEMENT

TECTONIC Engineering Consultants P.C.
3951 Westerre Parkway, Suite 160
Richmond, VA 23233

Phone: (804) 217-8504
Fax: (804) 270-0593
www.tectonicengineering.com



1997 ANNAPOLIS EXCHANGE PARKWAY, STE 200
ANNAPOLIS, MD 21401



at&t Mobility

GDP FOR SPECIAL USE PERMIT
TAX MAP #: 23-A-92B & 23-A-92D
SITE: RAYNOLD
SITE ID # 6138
FA # 12837662
801 MAPLE GROVE DRIVE
FREDERICKSBURG, VIRGINIA 22407



at&t Mobility

AT&T MOBILITY CORP.
7150 STANDARD DRIVE
HANOVER, MD 21076
(410) 782-8015

6	05/15/19	PER COUNTY COMMENTS	6	05/15/19	PER COUNTY COMMENTS
		SMD GLE			SMD GLE
5	12/28/18	PER COUNTY COMMENTS			SMD GLE
4	11/16/18	PER COUNTY COMMENTS			SMD GLE
3	08/09/18	PER COMMENTS			DWP GLE
2	08/06/28	PER COMMENTS			JNR GLE
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: PUB	DRAWN BY: PUB	PUB	



RF SCHEDULE AND NOTES		
PROJECT NUMBER:		
JOB NUMBER	DRAWING NUMBER	REV
7386.RAYNOLDS	C7	6

GDP APPROVAL BLOCK

SIGNATURE _____ DATE _____

1

C7

RF SCHEDULE & NOTES

SCALE: N.T.S.

REFER TO AT&T ANTENNA COLOR & NUMBERING SCHEME DATED 5/17/2005, REV. 2/2/2006

SAMPLE

ANTENNA

RESISTANT MRE OR CABLE-TY.

SHALL BE ATTACHED WITH CORROSION PROOF UV

PORT IDENTIFICATION NUMBER EXAMPLE BELOW. TAGS

OF THE JUMPER SERVING THE RADIO EQUIPMENT. EACH

NEAR THE END OF THE JUMPER AND ONE ON EACH END

AND NUMBERS ONE TAT THE ANTENNA PORT CONNECTION

TAG (1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS

THE MASTER COLOR CODE DOCUMENT.

CABLE IDENTIFICATION NOTES:

1. SUBCONTRACTOR SHALL COORDINATE COLOR CODING WITH

ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN

NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.

INSTALL THREE (3) TOTAL (1 PER SECTOR) 18 PAIR FIBER

OPTIC CABLES (F.O.C.) AND NINE (9) TOTAL DC POWER

CABLES (6/C) FROM EQUIPMENT TO FIBER DISTRIBUTION

DOVE BY RAYCAP, PART NO. DC6-48-60-18-8F.

SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS

TO AVOID UNRAVELING.

SHALL BE A MINIMUM OF 3/4" WIDE.

ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND

MIDDLE OF TOWER AND 2" WIDE AT THE BOTTOM. ALL

JUMPERS SHALL BE INCLUDED.

ALL COLOR CODED TAPE SHALL BE 3M-35 AND SHALL BE

INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE AND

AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE.

USING COLOR BANDS ON THE CABLES, MARK ALL RF

CABLES BY SECTOR AND CABLE NUMBER AS SHOWN ON

"CABLE MARKING CONVENTION TABLE".

ALL COLOR CODED TAPE SHALL BE 3" WIDE AT TOP AND

BETA, 2, B, OR Y RF CABLES

B1 THRU B10 AS REQ'D

ANTENNA SECTOR AND CABLE DEFINITION

CABLE AND RF SYSTEM PLAN NOTES:

1. SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION

TO REGION AND IS SITE SPECIFIC. REFER TO SEPARATE

RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA

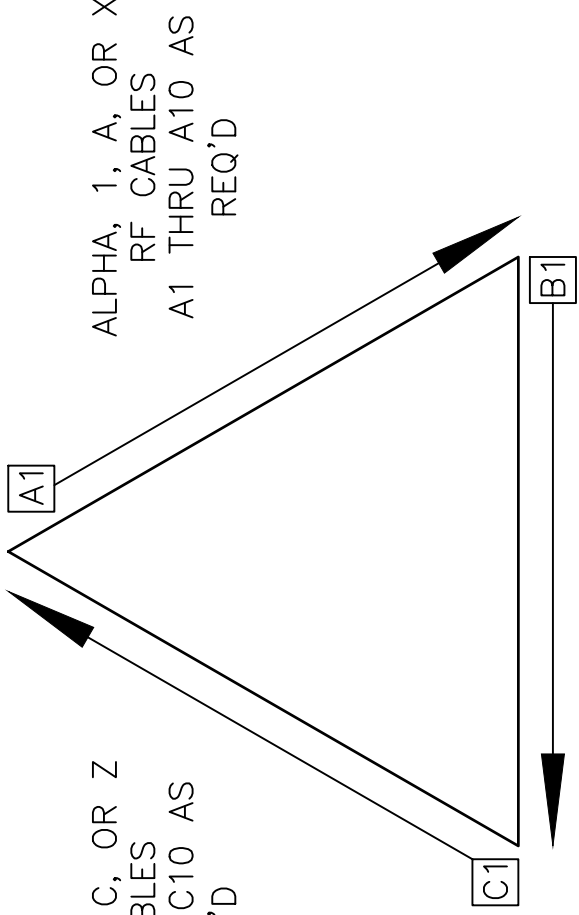
LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.

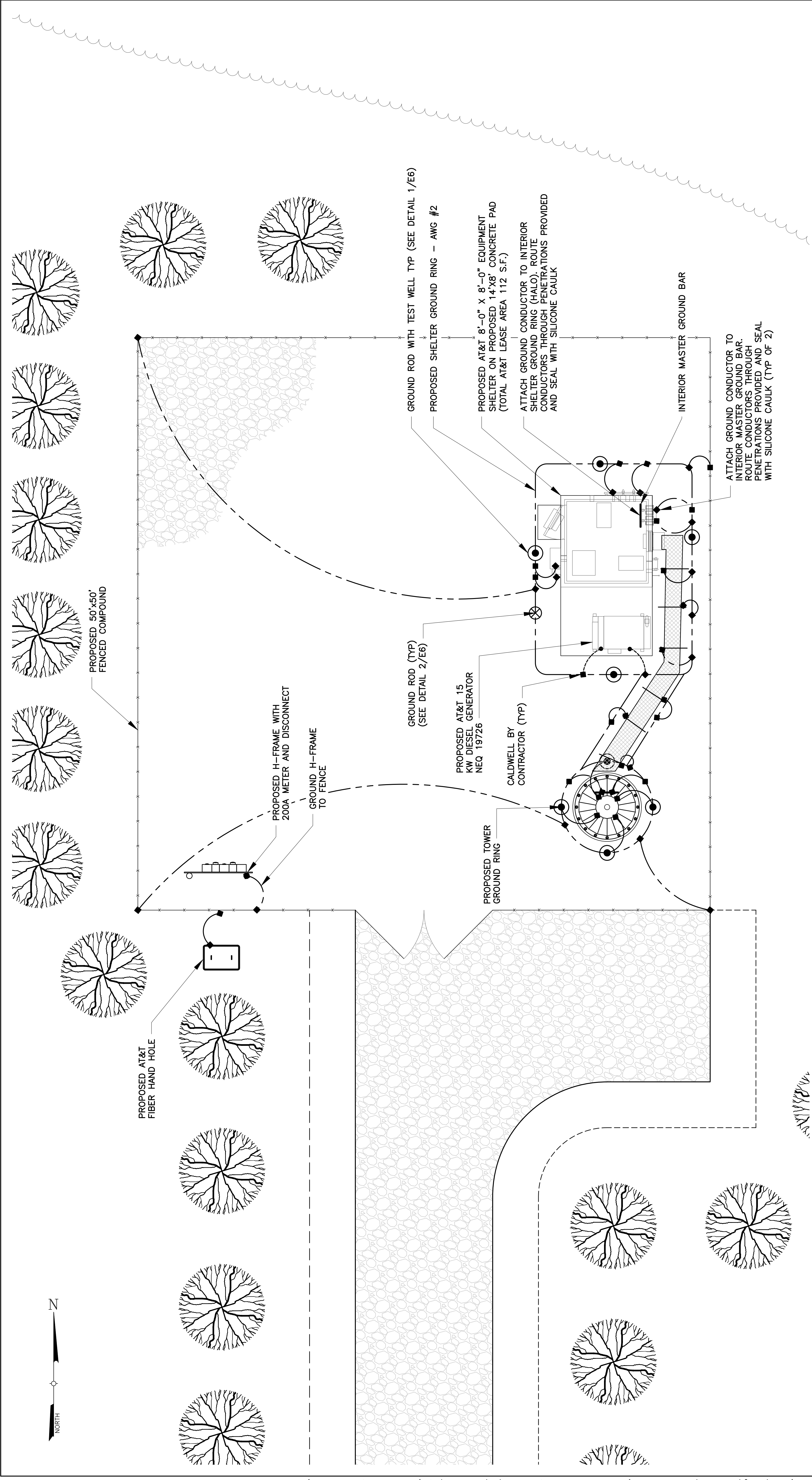
THE STANDARDS BASED ON EIGHT COLORED TAPES-RED,

BLUE, GREEN, YELLOW, BROWN, ORANGE, WHITE, AND

SLATE (GREY). THESE TAPES SHOULD BE READILY

GAMMA, 3, C, OR Z
RF CABLES
C1 THRU C10 AS
REQ'D



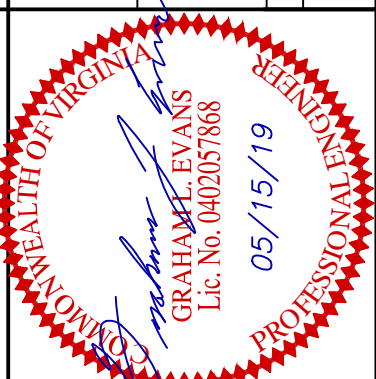


1
G1

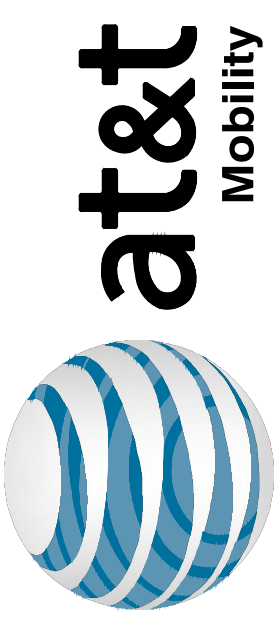
GROUNDING PLAN

SCALE: 22" x 34" : 1/4" = 1'-0"
11" x 17" : 1/8" = 1'-0"

GDP APPROVAL BLOCK	
SIGNATURE	DATE
GROUNDING PLAN	
PROJECT NUMBER:	
JOB NUMBER	DRAWING NUMBER
7386.RAYNOLDS	G1
REV	6



NO.	DATE	REVISIONS	BY	CHK	APP'D
6	05/15/19	PER COUNTY COMMENTS	CMD	GLE	GLE
5	12/28/18	PER COUNTY COMMENTS	SMD	GLE	GLE
4	11/16/18	PER COUNTY COMMENTS	SMD	GLE	GLE
3	08/09/18	PER COMMENTS	DWP	GLE	GLE
2	08/06/28	PER COMMENTS	JNR	GLE	GLE
SCALE: AS SHOWN		DESIGNED BY: PUB	DRAWN BY: PUB		



at&t
Mobility

GDP FOR SPECIAL USE PERMIT
TAX MAP #: 23-A-92B & 23-A-92D
SITE: RAYNOLD
SITE ID # 6138
FA # 12837662
801 MAPLE GROVE DRIVE
FREDERICKSBURG, VIRGINIA 22407

AT&T MOBILITY CORP.
7150 STANDARD DRIVE
HANOVER, MD 21076
(410) 782-8015



smartlink

1997 ANNAPOLIS EXCHANGE
PARKWAY, STE 200
ANNAPOLIS, MD 21401



TECTONIC

PLANNING
ENGINEERING
CONSTRUCTION
MANAGEMENT

TECTONIC Engineering Consultants P.C.
3951 Westerre Parkway, Suite 160
Richmond, VA 23233

Phone: (804) 217-8504
Fax: (804) 270-0593
www.tectonicengineering.com