



T-MOBILE SITE #: DN01524E
SITE NAME: CENTURYLINK
SITE ADDRESS: 1420 IOLA STREET
AURORA, CO 80012

APPROVAL SIGNATURE BLOCK

THE FOLLOWING PARTIES HAVE REVIEWED THESE DOCUMENTS.

ALL DOCUMENTS ARE SUBJECT TO REVISION BY THE LOCAL ZONING BUILDING DEPARTMENTS AND MAY IMPOSE CHANGES OR MODIFICATIONS.

_____ PROJECT MANAGER (PRINT)	_____ PROJECT MANAGER	<input type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED	_____ DATE
_____ RF ENGINEER (PRINT)	_____ RF ENGINEER	<input type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED	_____ DATE
_____ SITE ACQUISITION (PRINT)	_____ SITE ACQUISITION	<input type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED	_____ DATE
_____ T-MOBILE QUALITY ASSURANCE (PRINT)	_____ T-MOBILE QUALITY ASSURANCE	<input type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED	_____ DATE



**SITE NAME:
CENTURYLINK**

**SITE NUMBER:
DN01524E**

**LOCATION:
1420 IOLA STREET
AURORA, CO 80012
33'-0" ROOFTOP
ZONING DRAWINGS**



T-MOBILE WEST, LLC
18400 E. 22ND AVENUE
AURORA, CO 80011



POWDER RIVER
Engineering Services, LLC
www.powderriverdev.com

LICENSE #: N/A

REVISIONS			
REV	DATE	DESCRIPTION	INT
A	08/02/17	ISSUED FOR REVIEW 90%	BCM

PRELIMINARY
NOT FOR
CONSTRUCTION

THESE PLANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF POWDER RIVER DEVELOPMENT SERVICES, LLC WHETHER THE PROJECTS FOR WHICH THEY ARE MADE ARE EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY ON OTHER PROJECTS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER.

SITE INFORMATION

DN01524E

CENTURYLINK

**1420 IOLA STREET
AURORA, CO 80012**

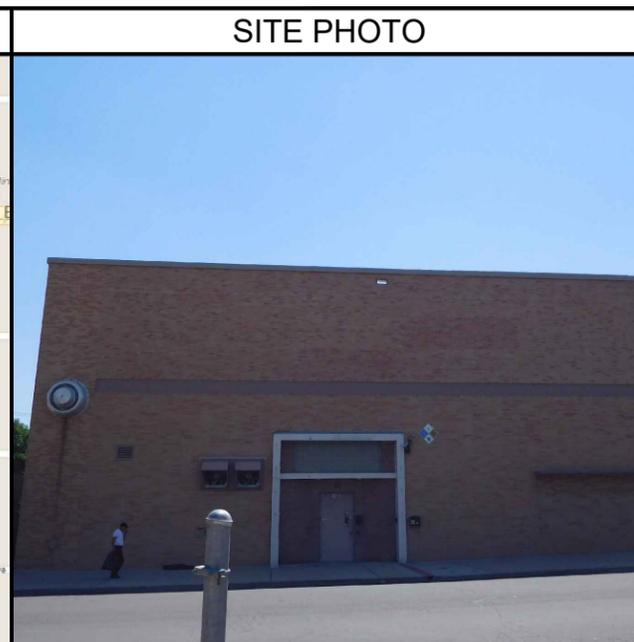
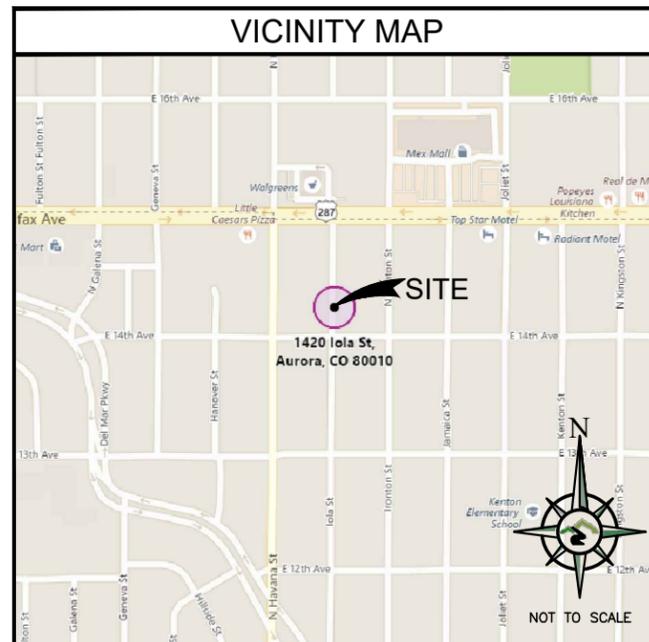
SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

SITE INFORMATION	
PROPERTY OWNER:	MOUNTAIN STATES TEL & TEL / CENTURY LINK
SITE ADDRESS:	1420 IOLA STREET AURORA, CO 80012
COUNTY:	ARAPAHOE COUNTY
LATITUDE:	39.738736°
LONGITUDE:	-104.864313°
GROUND ELEVATION:	5367' NAVD 88
OCCUPANCY TYPE:	UNMANNED
ZONING JURISDICTION:	CITY OF AURORA
ZONING CODE:	B-4
PARCEL NUMBER:	1973-02-2-07-007
POWER PROVIDER:	TBD
TELCO PROVIDER:	TBD



DRAWING INDEX		
SHEET NO.	DESCRIPTION	REV
T-1	TITLE SHEET	A
LS1	TOPOGRAPHIC SURVEY	1
ZD-1	OVERALL SITE PLAN	A
ZD-2	ENLARGED SITE PLAN	A
ZD-3	EQUIPMENT PLAN	A
ZD-4	BUILDING ELEVATION	A
ZD-5	CONSTRUCTION DETAILS	A
ZD-6	CONSTRUCTION DETAILS	A

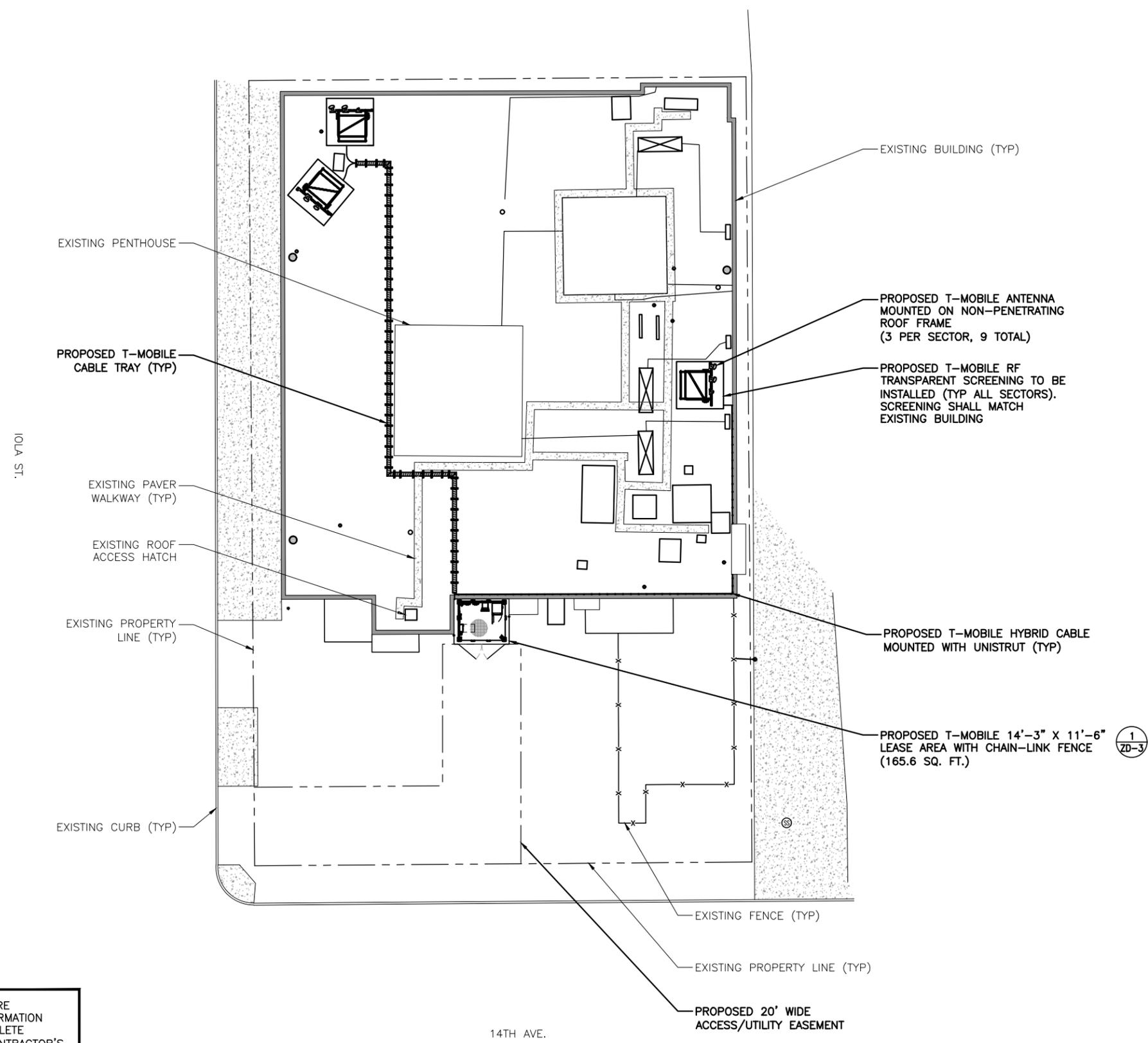
CONTACT INFORMATION	
A&E SERVICES:	POWDER RIVER ENGINEERING SERVICES, LLC. 219 S. WOODDALE AVE. EAGLE, ID 83616 CONTACT: BRANDON SAENZ PHONE: (815) 375-3535 EMAIL: brandon.saenz@powderriverdev.com
ENGINEERING:	POWDER RIVER ENGINEERING SERVICES, LLC. 219 S. WOODDALE AVE. EAGLE, ID 83616 CONTACT: DON GEORGE, PE, SE, MLSE PHONE: (208) 602-6469 EMAIL: don.george@powderriverdev.com
APPLICANT:	T-MOBILE WEST LLC 18400 E. 22ND AVENUE AURORA, CO 80011 CONTACT: KATHY HOFFMAN-GILLIS PHONE: (720) 266-0461 EMAIL: kathy.hoffmangilliss11@t-mobile.com

DRIVING DIRECTIONS	
FROM T-MOBILE OFFICE, 18400 E. 22ND AVENUE, AURORA, CO 80011: DEPART E. 22ND AVENUE TOWARD TOWER ROAD. TURN RIGHT ONTO TOWER ROAD. TURN RIGHT ONTO I-70 W BL / US-285 W / US-40 W / E COLFAX AVENUE. TURN LEFT ONTO IOLA STREET. ARRIVE AT DN01524E CENTURYLINK - 1420 IOLA STREET, AURORA, CO 80012.	
DO NOT SCALE DRAWINGS	
CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME	

SCOPE OF WORK	
INSTALL (9) ANTENNAS, (3) ANTENNA PER SECTOR, TYPICAL OF (3) SECTORS, ON EXISTING ROOFTOP WITH RF TRANSPARENT SCREEN WALLS. INSTALL (12) RADIO UNITS, (3) COVP'S & (3) HYBRID CABLES FOR ANTENNAS. INSTALL T-MOBILE EQUIPMENT ON NEW 10'X12' EQUIPMENT PLATFORM WITHIN A 14'-3" X 11'-6" T-MOBILE LEASE AREA WITH CHAIN-LINK FENCING IN EXISTING PARKING LOT. ALL VISIBLE T-MOBILE EQUIPMENT (INCLUDING RF TRANSPARENT SCREEN WALLS) TO BE PAINTED TO MATCH EXISTING BUILDING.	

APPLICABLE CODES	
BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE ELECTRICAL CODE: 2014 NATIONAL ELECTRICAL CODE	

NOTE:
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THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOR INTENDED TO BE A COMPLETE INVENTORY OF THE UTILITIES IN THIS AREA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

T-Mobile
T-MOBILE WEST, LLC
18400 E. 22ND AVENUE
AURORA, CO 80011



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SHEET TITLE:
OVERALL SITE PLAN

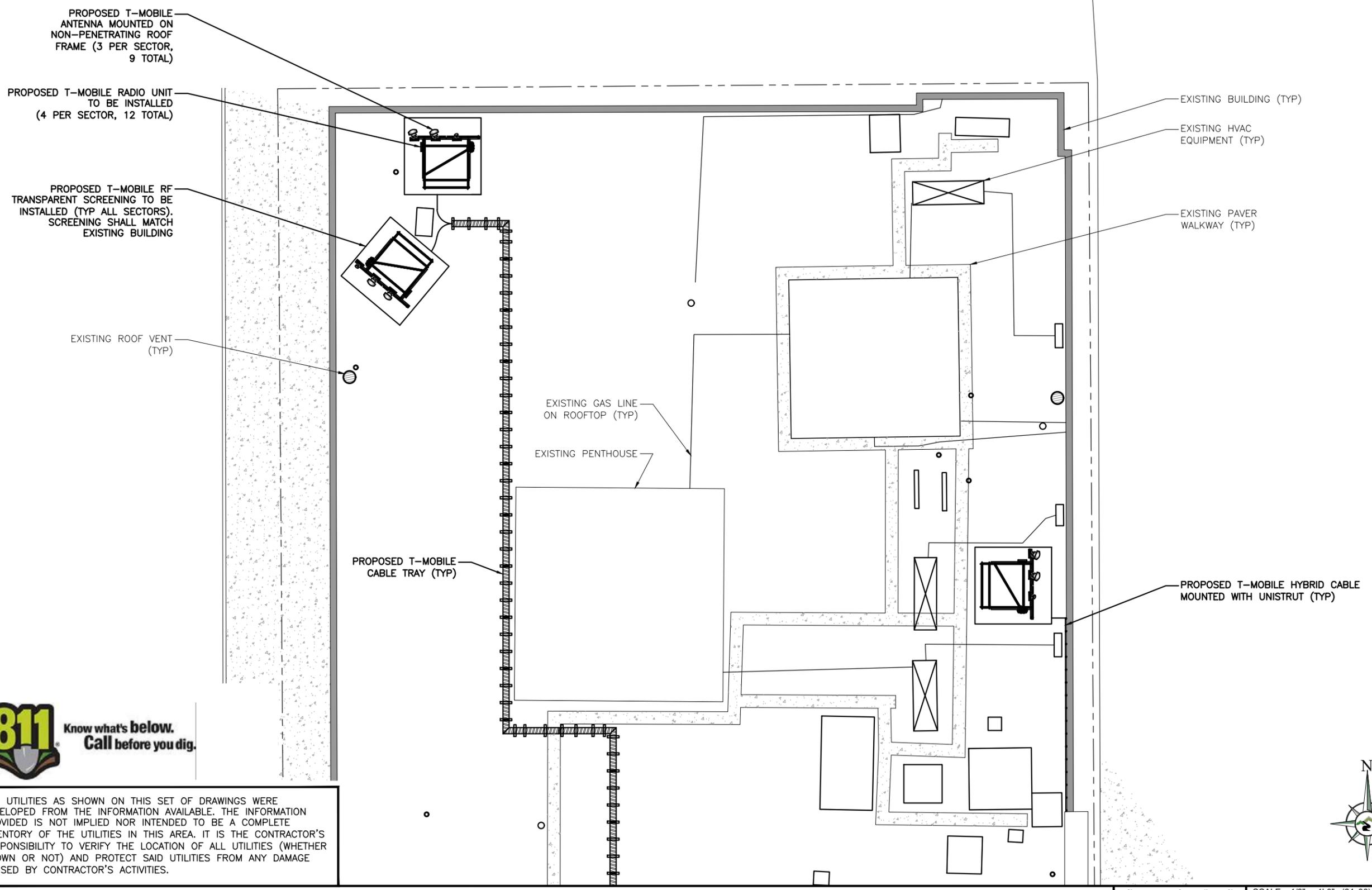
SHEET NUMBER:
ZD-1

OVERALL SITE PLAN

SCALE: 1" = 15' (24x36)
(OR) 1" = 30' (11x17)

1

NOTE:
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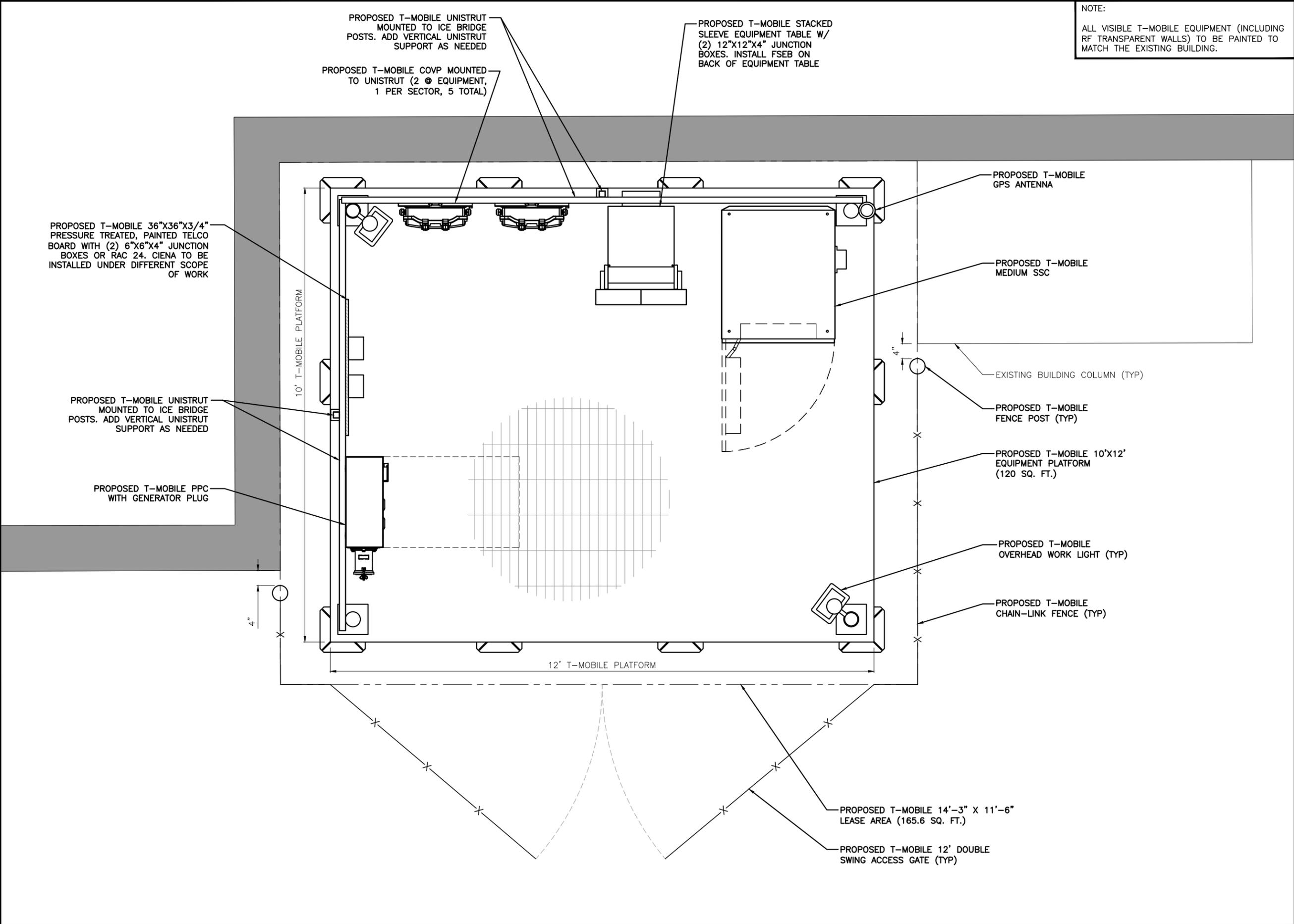
SHEET TITLE:
**ENLARGED
SITE PLAN**

SHEET NUMBER:
ZD-2

ENLARGED SITE PLAN

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17)

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SHEET TITLE:
EQUIPMENT PLAN

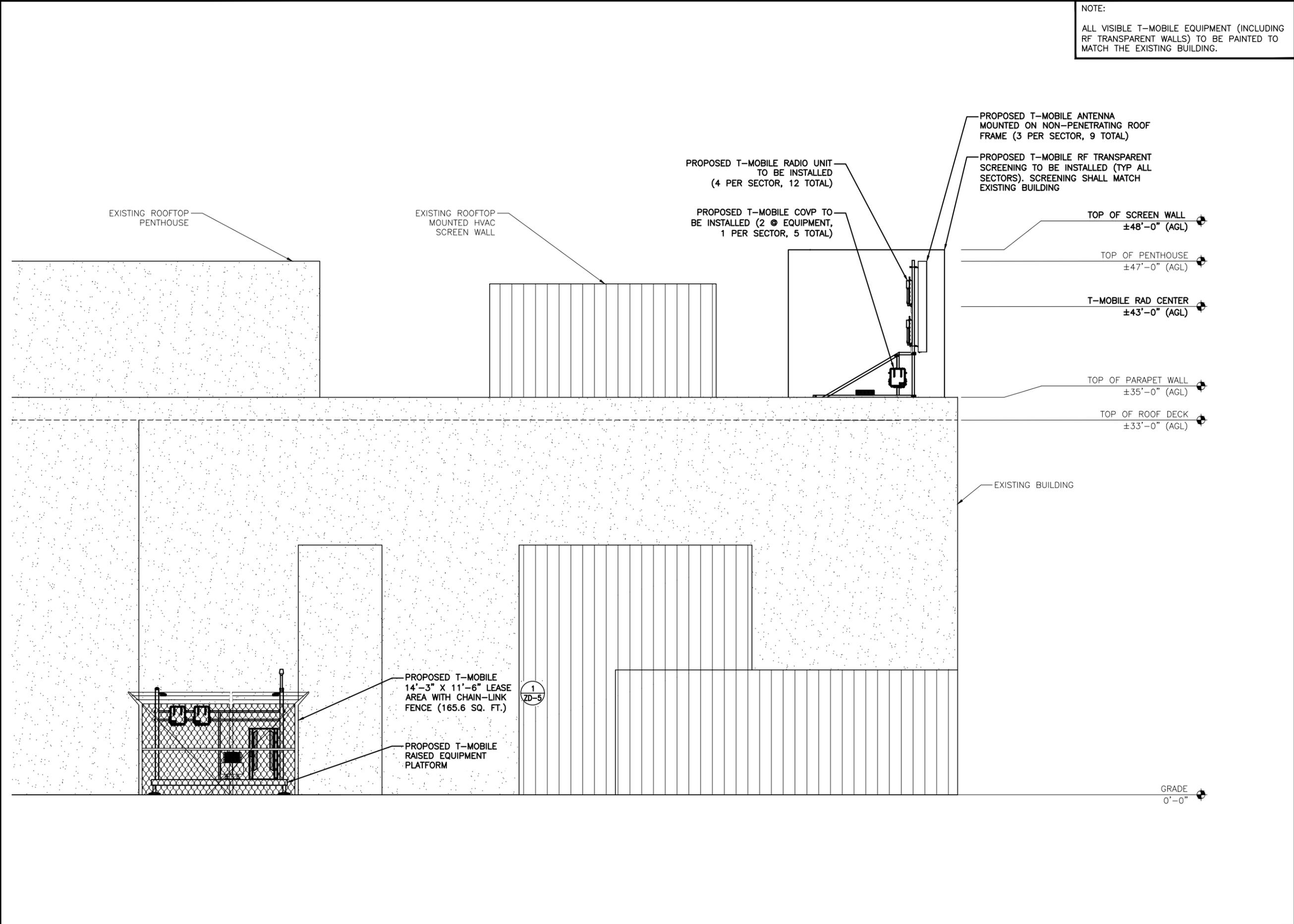
SHEET NUMBER:
ZD-3

PROPOSED EQUIPMENT PLAN

SCALE: 1" = 1'-0" (24x36)
(OR) 1/2" = 1'-0" (11x17)

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

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SHEET TITLE:

BUILDING
ELEVATION

SHEET NUMBER:

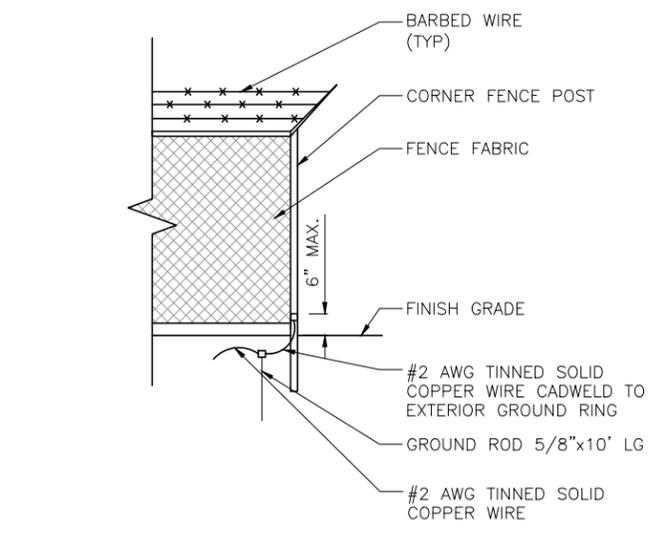
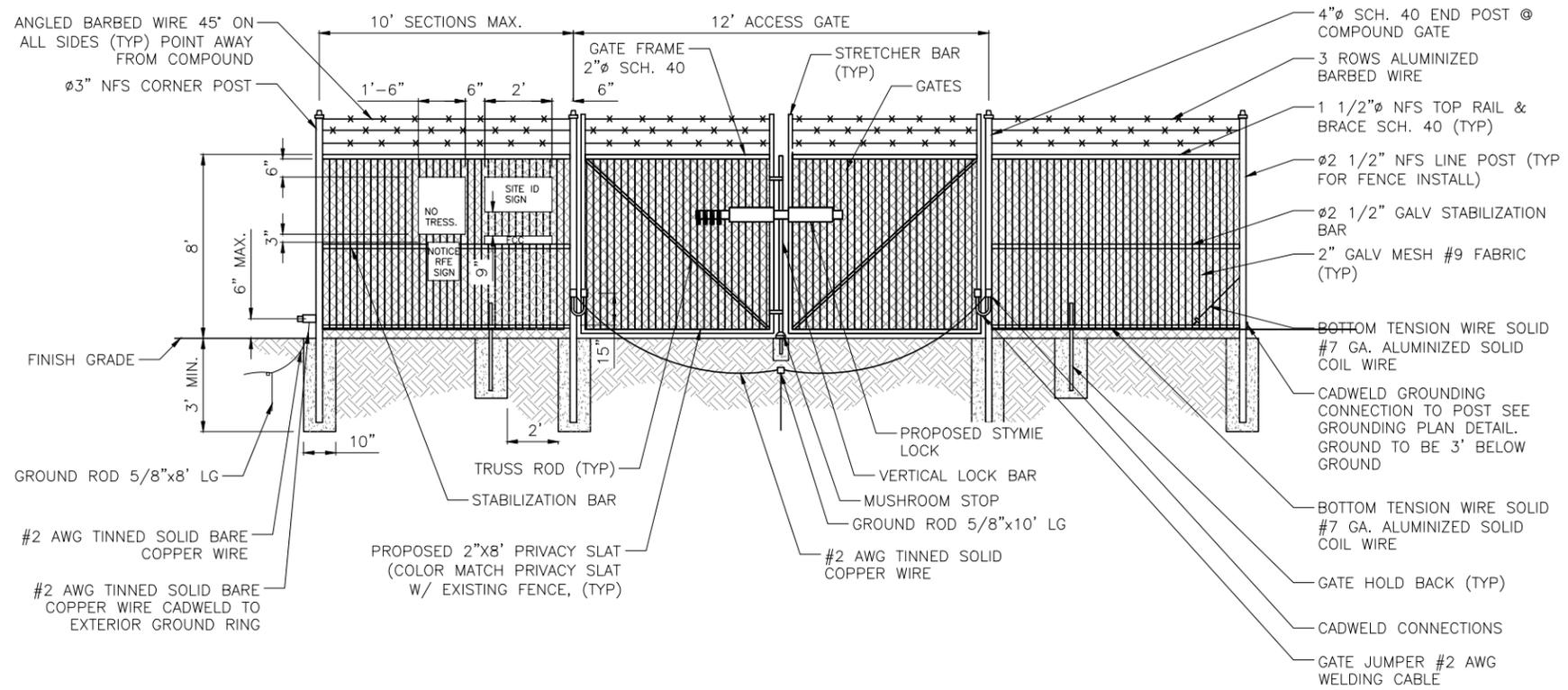
ZD-4

PROPOSED BUILDING ELEVATION (SOUTH)



SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17)

1



CHAIN LINK FENCE TABLE		
COMPONENT	DIMENSIONS	HARDWARE AND FEATURES
FENCE FABRIC	6' HIGH, 9 GA., 2"x2" ZINC COATED MESH	SELVEDGE TOP AND BOTTOM
BARBED WIRE	BARBED WIRE WITH FOUR (4) POINT BARBS	THREE (3) RUNS
EXTENSION ARM	STAMPED STEEL WITH MALLEABLE IRON BASE	45 DEGREE, ANGLE OUTWARD
END AND CORNER POSTS	3" STD. GA. (SCH 40) PIPE	36"x12" CONCRETE FOOTING
LINE POSTS	2" STD. GA. (SCH 40) PIPE	36"x10" CONCRETE FOOTING, REF NOTE 3
DRIVEWAY GATE POSTS	4" STD. GA. (SCH 40) PIPE	48"x12" CONCRETE FOOTING
WALKWAY GATE POSTS	3" STD. GA. (SCH 40) PIPE	36"x12" CONCRETE FOOTING
TOP RAILS	1 1/2" STD. GA. (SCH 40) PIPE	ATTACHED WITH PROPER FITTING
MID RAILS	1 1/2" STD. GA. (SCH 40) PIPE	ATTACHED WITH PROPER FITTING
BRACE RODS	3/8" CARBON STEEL	ATTACHED WITH PROPER FITTING
BOTTOM TENSION WIRE	7 GA. 1900 LB. TENSILE STRENGTH	ALL SIDES
TENSION BARS	3/16" x 3/4" FULL HEIGHT OF FABRIC	SPACE TENSION BANDS AT 15" +/- 0.C.
TENSION WIRE	9 GA. ALUMINUM	12" O.C. FOR LINE POSTS AND GATES 24" O.C. FOR RAILS AND TENSION WIRES
GATE FRAME	2" STD. GA. (SCH 40) PIPE	WELDED ASSEMBLY (COLD GA. AND SILVER PAINT WELDED AREAS)
POST CAPS	PER POST DIAMETER	ALL POSTS
POST, RAIL AND GATE FITTINGS	AS REQUIRED	STAMPED STEEL OR MALLEABLE CASTING
GATE HINGES	AS REQUIRED	OFFSET TYPE WITH 180 DEGREE SWING
DOUBLE GATE LATCH	AS REQUIRED	DUCKBILL LATCH ON ACTIVE LEAF, DROP BOLTS ON BOTH LEAVES
GATE STOPS (CLOSED POSITION)	AS REQUIRED	MUSHROOM STOP SET IN CONCRETE
GATE STOPS (OPEN POSITION)	AS REQUIRED	AS REQUIRED
LOCK CHAIN	3/8" SIZE, 36" LONG	HOT DIPPED GALVANIZED OR VINYL COATED

NOTES:
 1. ABOVE INFORMATION SHOWN FOR REFERENCE ONLY. ACTUAL ENGINEERING OF FENCE SYSTEM SHALL BE COORDINATED WITH FENCE MANUFACTURER, CONTRACTOR & VENDOR.
 2. ALL FENCE MATERIALS TO BE HOT-DIPPED GALVANIZED UNO.
 3. CONTRACTOR MAY USE 36"x12" CONCRETE LINE POST FOOTINGS IN LIEU OF 36"x10".
 4. DRILLED PIER FOOTING CONCRETE, f'c OF 3000 PSI MIN.
 5. BRACING RODS TO BE TENSIONED PER INDUSTRY STANDARDS.

TYPICAL CHAIN-LINK FENCE DETAIL

SCALE: 1
NTS

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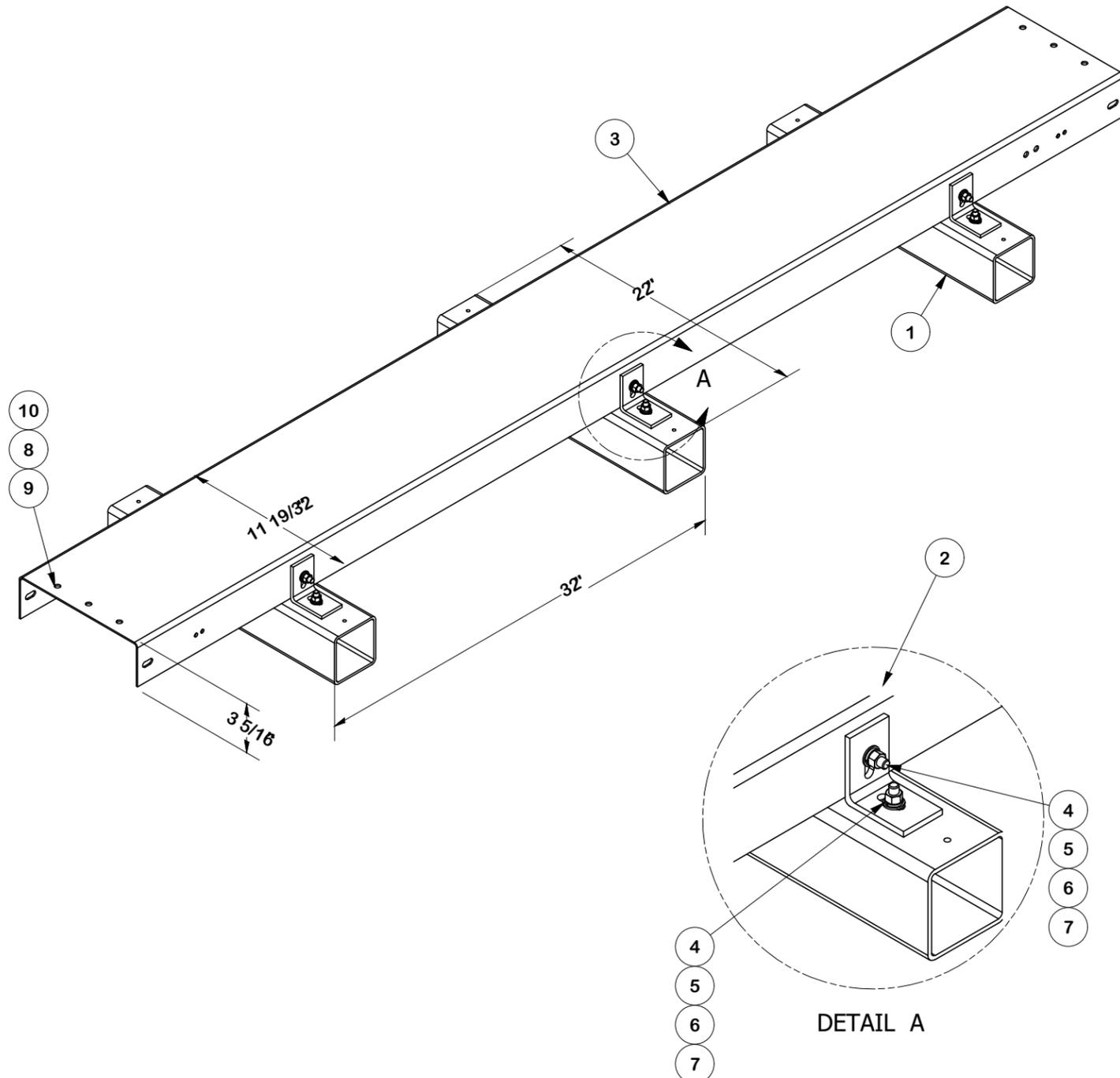
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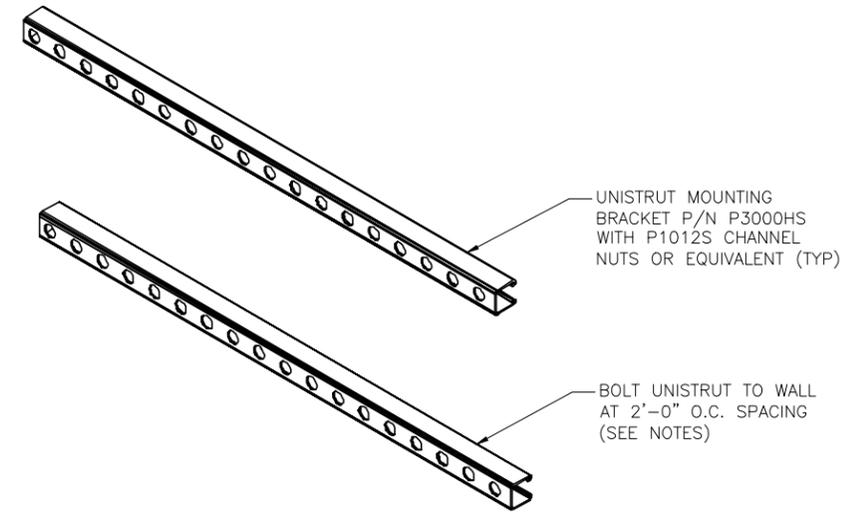
SHEET TITLE:
**CONSTRUCTION
 DETAILS**
 SHEET NUMBER:
ZD-5

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	SLPR4	PVC ROOFTOP SLEEPER	22 in	2.10	6.29
2	6	RCCLIP	ROOFTOP COVER CLIP ANGLE		0.36	2.14
3	1	X-SP1542	4 RUN ROOFTOP COVER		47.77	47.77
4	12	G38114	3/8" x 1-1/4" HDG HEX BOLT GR5		0.06	0.75
5	18	G38FW	3/8" HDG USS FLATWASHER		0.01	0.21
6	12	G38LW	3/8" HDG LOCKWASHER		0.01	0.08
7	12	G38NUT	3/8" HDG HEAVY 2H HEX NUT		0.03	0.41
8	3	RN38	RETAINING NUT 3/8" X 1-1/4"		0.04	0.12
9	3	SS38114	SS 3/8" X 1-1/4" BOLT	1 1/4 in	0.06	0.18
10	3	SS38FW	3/8" STAINLESS FLATWASHER		0.01	0.03
TOTAL WT. #						57.98



CABLE TRAY DETAIL

SCALE: 2
NTS



NOTES:

- CONCRETE ANCHOR: HILTI HIT HY 150 ADHESIVE ANCHOR
 SIZE: $\phi = 3/8"$
 EMBEDMENT: 1 3/4"
 SPACING: S = 24" (MAX)
 * IF THE WALL THICKNESS IS LESS THAN 2", THE 1/2" ϕ A325 BOLT SHALL BE USED TO GO THROUGH THE WALL WITH A 3/8" BACK PLATE INSIDE OF THE WALL.
- FULLY-GROUTED CMU WALL
 ANCHOR: HILTI HIT HY 150 ADHESIVE ANCHOR
 SIZE: $\phi = 3/8"$
 EMBEDMENT: 1 3/4"
 SPACING: ONE (1) ANCHOR PER CELL (MAX) AND 8" (MIN)
- SOLID BRICK WALL
 ANCHOR: HILTI HIT HY 20 ADHESIVE ANCHOR
 SIZE: $\phi = 3/8"$
 EMBEDMENT: 2"
 SPACING: S = 24" (MAX)
- HOLLOW, UNGROUTED CMU WALL & BRICK WALL WITH HOLES
 ANCHOR: HILTI HIT HY 20 ADHESIVE ANCHOR
 SIZE: $\phi = 3/8"$
 EMBEDMENT: THROUGH FACE OF HOLLOW BASE $\geq 6"$ (MIN)
 SPACING: S = (2) COMPLETE BRICKS IN ANY DIRECTION
 (1) ANCHOR PER BLOCK CELL (CMU)
- STEEL
 BOLT: A325
 BOLT SIZE: $\phi = 1/2"$
 BOLT HOLE SIZE: $\phi = 9/16"$
- IF THE WALL MATERIAL IS DIFFERENT FROM ABOVE, CONTRACTOR SHALL INFORM DESIGN ENGINEER IMMEDIATELY.
- ALL HARDWARE AND PARTS SHALL BE HOT-DIPPED GALVANIZED WITH LOCK WASHERS AND HEAVY HEX NUTS.
- ALL BOLT HOLES SHALL BE 7/16" ϕ UNLESS NOTED OTHERWISE.
- THE MAX LOAD BETWEEN ANCHORS SHALL BE LESS THAN 400 POUNDS.

TYPICAL UNISTRUT WALL MOUNTING DETAIL

SCALE: 1
NTS



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