

Appendix C

Drawings, Figures and Photos of Ancillary Facilities and Equipment

Examples of Hand Hole Junction Box Installations

Grand Teton Nation Park Headquarters (Moose, Wy.) Proposed Hut Site

Proposed Hut Location at DTE Site on Togwotee Pass (Exhibit A & B)

Photographs of Proposed DTE Hut Site on Togwotee Pass

Typical Drawings of a Telecommunications Hut (Thermobond Building - 9 Sheets)

Typical Construction Equipment on Site During Installation.

Typical exterior mounted optical network terminal (ONT) schematic.

Examples of Hand Hole Junction Box Installations



Photo 1: Typical hand hole connection.



Photo 2: Connection platform to go inside hand hole.



Photo 3: Typical hand hole installed in lawn.

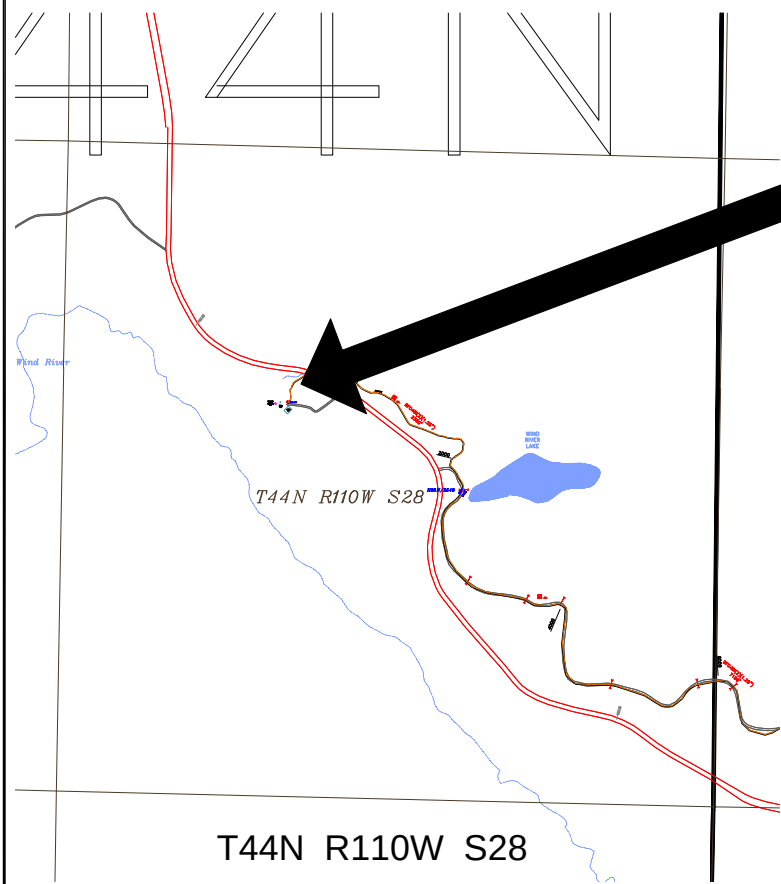
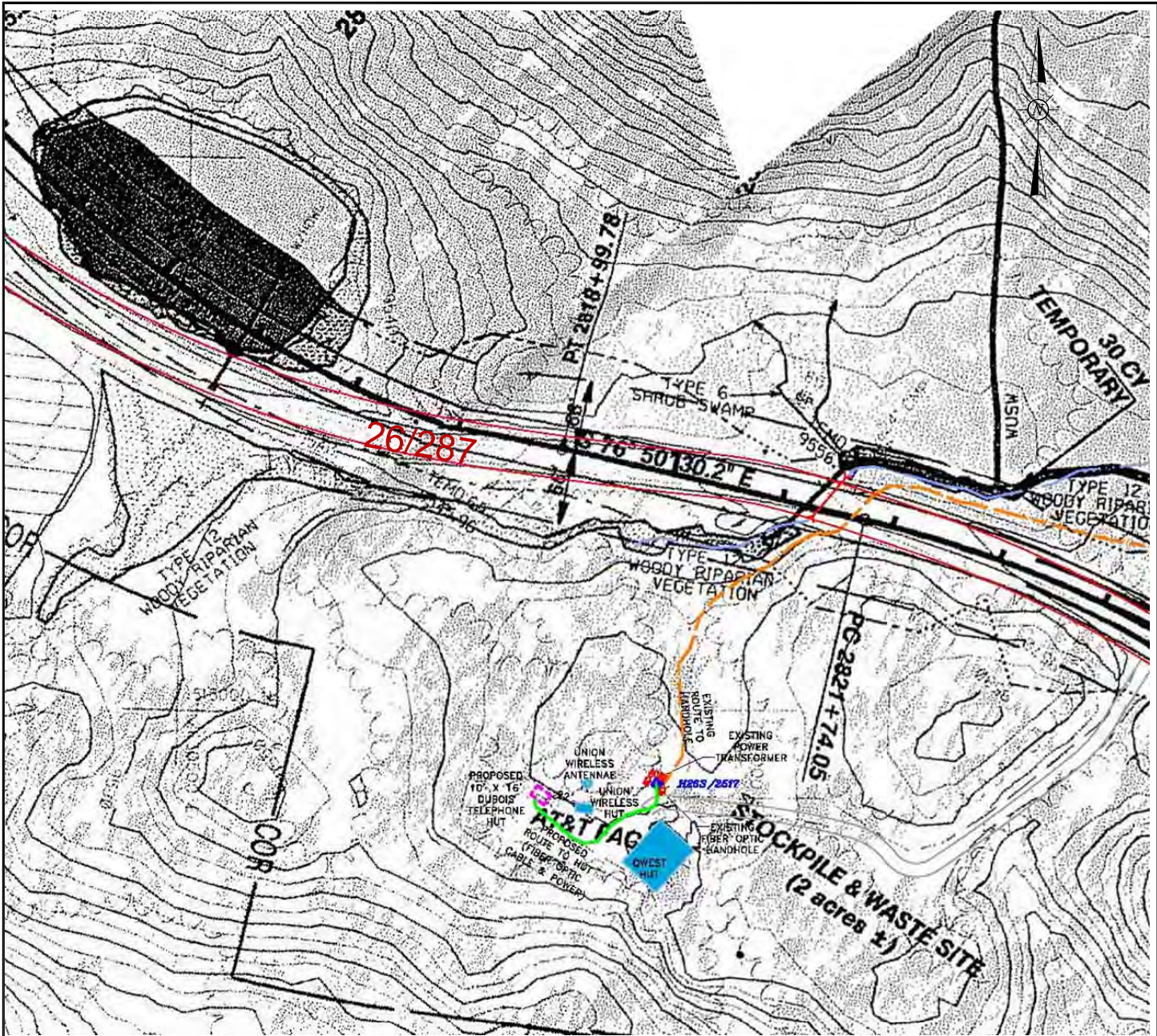


Photo 4: Typical hand hole installation in residential area.



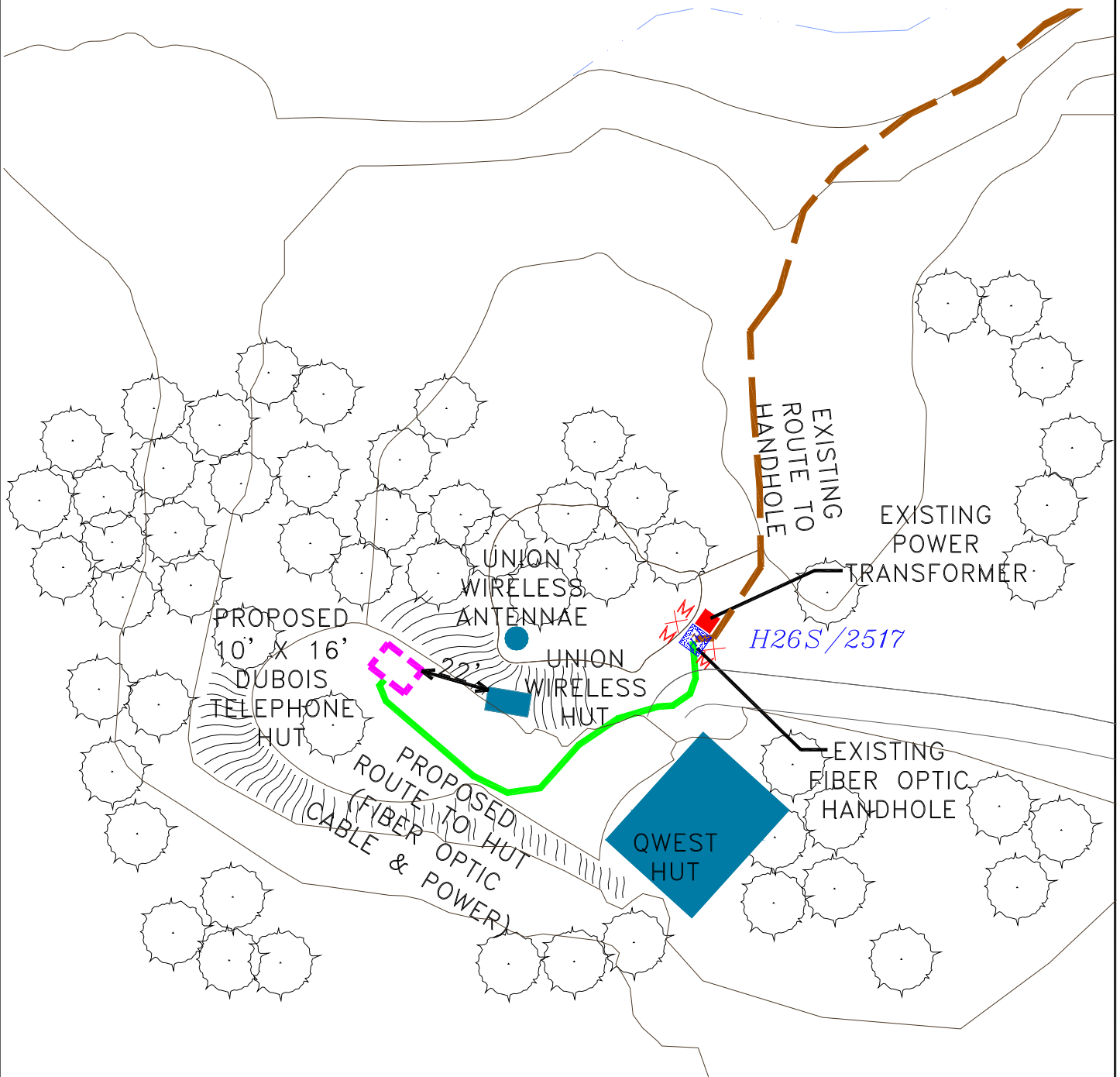
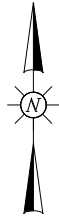
Photo 5: Typical hand hole installation along highway.





HUT SITE – EXHIBIT A
T44N R110W
SEC 28
PAGE 1 OF 2

11-12-10



HUT SITE – EXHIBIT B
T44N R110W
SEC 28
PAGE 2 OF 2

11-12--10

Proposed Hut Location at DTE Site on Togwotee Pass



Photo 1. Orange flags represent location of proposed DTE hut at the Togwotee Pass Site. (Photos 1 thru 3)



Photo 2.



Photo 3.

BUILDING EXTERIOR

☐ BUFF

☐ OZARK

☐ GREY

☒ OTHER

HARDIE PLANK SIDING

PROJECT

INTERSTATE TELCOM COOP

JOB NO.

1004-45

SITE NAME

BROOKINGS, SD.

SIZE

12' W O.D. X 24' L O.D. X 9' H I.D.

<u>DRAWING TITLE</u>	<u>DRAWING NUMBER</u>
DRAWING INDEX_____	AGB8477 PAGE 1 OF 9
REVISION LOG_____	AGB8477 PAGE 2 OF 9
INTERIOR LAYOUTS_____	AGB8477 PAGE 3 OF 9
INTERIOR LAYOUTS_____	AGB8477 PAGE 4 OF 9
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GENERAL NOTES_____	AGB8477 PAGE 6 OF 9
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BUILDING CONSTRUCTION DETAILS_____	AGB8477 PAGE 9 OF 9
BUILDING SKID ASSEMBLY_____	15R1224 PAGE 1 OF 1
BUILDING FOUNDATION ASSEMBLY_____	S15R1224 PAGE 1 OF 1

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Approved By:

PROJECT NUMBER:

Drawing Number: AGB8477

DRAWING INDEX

PAGE 1 OF 9

GENERAL NOTES

- 1. HARDIPLANK SIDING PAINTED W/ DIAMOND VOGAL HILLSBORO TAN IN COLOR.
- 2. METAL 26 GAUGE ROOF BURNISHED SLATE W/ BROWN FACIA AND WHITE SOFFIT.
- 3. DOUBLE FLOOR JOIST 16” OC.
- 4. ROOF TRUSS TO HAVE 4/12 PITCH AND BE 16” OC FASTENED WITH HURRICANE CLIPS.
- 5. SHIP MASTER GROUND BAR LOOSE IN THE BUILDING. DO NOT ATTACH TO THE WALL.
- 6. INSTALL NATURAL GAS GENERATOR IN THE AURORA BUILDING AND THE LP VAPOR GENERATOR IN THE BROOKINGS NORTH BUILDING.

ELECTRICAL NOTES

- 1. ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NFPA700, NEC-2008).
- 2. ALL ELECTRICAL MATERIALS SHALL BE U.L. LISTED AND CLASSIFIED AS SUITABLE FOR THE PURPOSE SPECIFIED.
- 3. ALL WIRING SHALL BE SURFACE MOUNTED IN A RACEWAY OR EMT CONDUIT USING APPROVED CONNECTORS, COUPLINGS, AND CLAMPS, ALL CONDUIT SHALL BE ANCHORED IN PLACE AT APPROXIMATELY EVERY 4 FT.
- 4. ALL WIRING SHALL BE A SOLID CONDUCTOR, THHN OR THWN COPPER, NO SMALLER THAN A #12.
- 5. ALL WIRE RUNS SHALL BE CONTINUOUS.
- 6. LOW VOLTAGE WIRE MAY BE STRANDED.
- 7. ALL WIRING SHALL BE TESTED AND INSPECTED PRIOR TO SHIPMENT.
- 8. GREEN GROUND CONDUCTORS SHALL BE RUN TO ALL OF THE BUILDINGS A/C POWERED DEVICES. CONDUIT SHALL NOT BE USED AS THE SOLE SOURCE OF GROUND.
- 9. ALL ALARM DEVICES WIRING SHALL BE RUN IN ITS OWN CONDUIT TO THE ALARM CABINET.
- 10. GROUNDING MUST MEET R-56 GROUNDING REQUIREMENTS.

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1004-45
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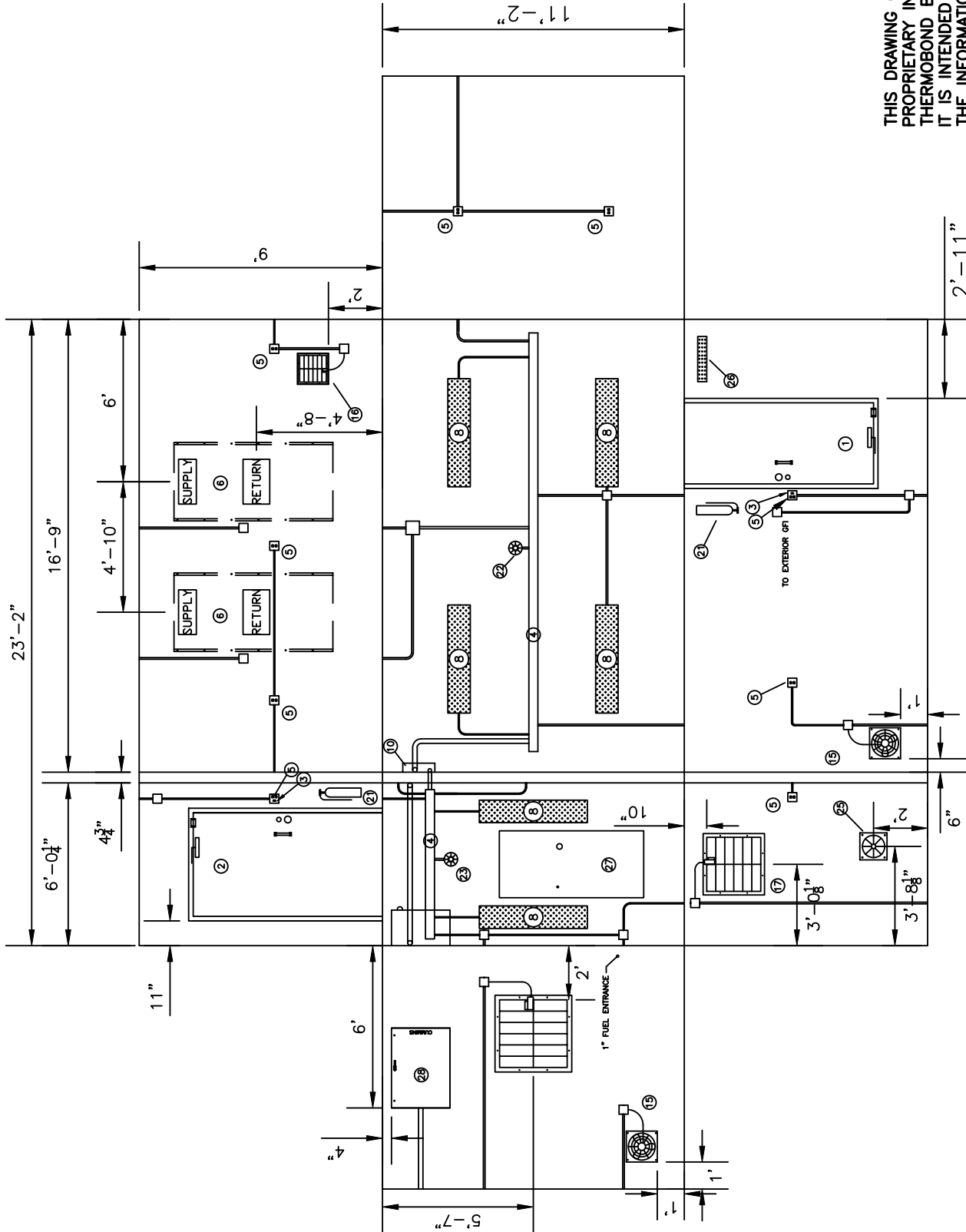


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Drawn By:	DJO	PROJECT NUMBER:	
Approved By:		Drawing Number:	AGB8477
		COMPUTER AIDED DRAWING AGB8477G	PAGE 2 OF 9

NOTES:

1. ALL DIMENSIONS ARE INSIDE DIMENSIONS.
2. ALL CONDUIT RUNS ARE APPROXIMATE AND MAY NOT REFLECT RUNS IN ACTUAL BUILDING.
3. INSTALL THE NATURAL GAS GEN SET IN THE AURORA BUILDING AND THE LP VAPOR GEN SET IN THE BROOKINGS NORTH BUILDING.



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Phone: 605-356-2090, www.thermobond.com

Scale: $3/16'' = 1'$

Title:

INTERIOR LAYOUT FOR
12'W. X 24'L. X 9'H. BLDG.

Date: 7/21/10

Drawn By: DJO

PROJ
3/2/10

Drawing Number:

Approved By:

COMPUTER AIDED DRAWING AGB8477

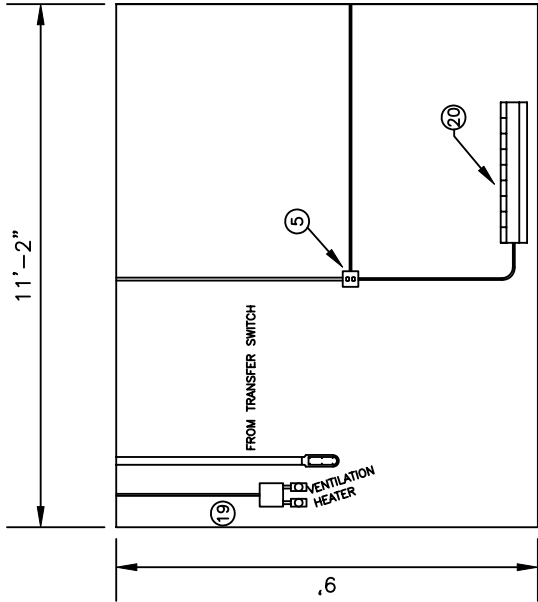
PAGE 3 OF 9

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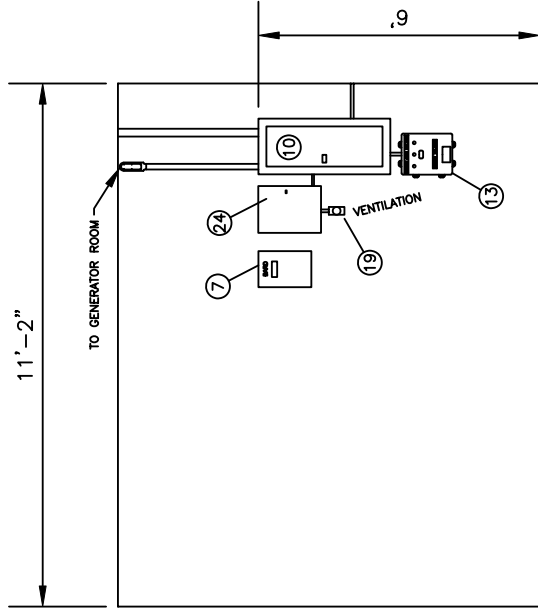
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Date: 7/21/10		PROJECT NUMBER: 8/2/10	
Drawn By: DJO		Drawing Number: AGB8477	
Approved By:		COMPUTER AIDED DRAWING AGB8477 PAGE 3 OF 9	

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INTERIOR GENERATOR ROOM

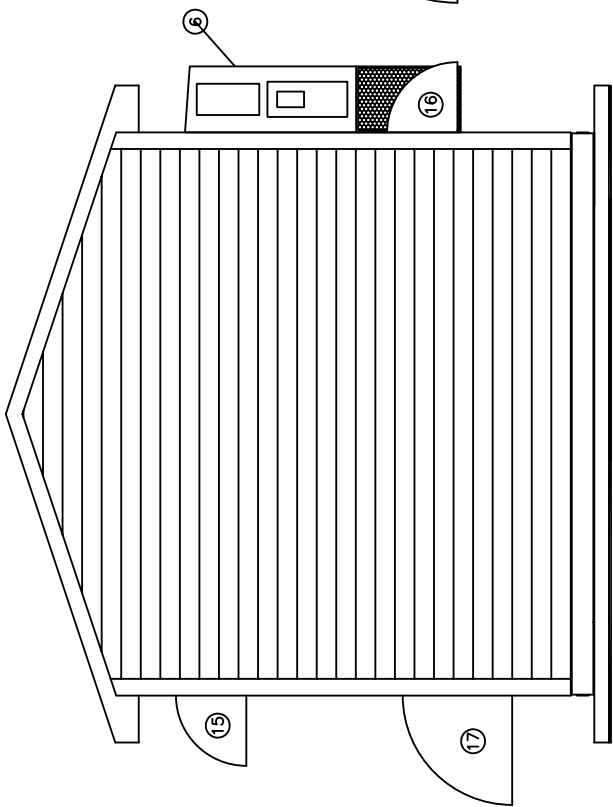


INTERIOR EQUIPMENT ROOM

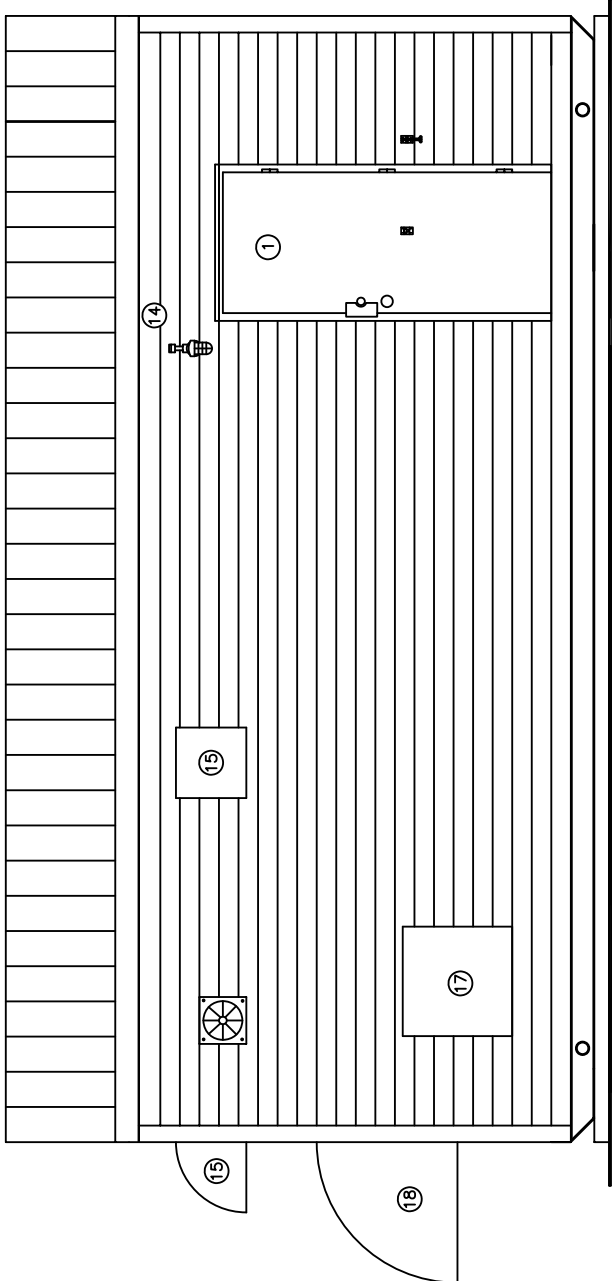
28.	1	ONAN 225 AMP, AUTOMATIC TRANSFER SWITCH #OTEC225
		ONAN 20 KW GENERATOR 20 GGMA, NATURAL GAS INSTALLED
		IN THE AURORA BUILDING AND LP VAPOR INSTALLED IN THE
		BROOKINGS NORTH BUILDING.
26.	1	20" MASTER GROUND BAR # GTI14420, INTERIOR & EXTERIOR
25.	1	2 1/2" GENERATOR EXHAUST THIMBLE
24.	1	ALARM CABINET W/ TERMINAL STRIP & FOLLOWING ALARMS:
		HIGH-LOW TEMP, HUMIDITY, OPEN DOOR (2), SMOKE
		,HEAT (GENERATOR ROOM) & POWER FAIL
23.	1	200 DEGREE HEAT DETECTOR. 3AU41 W/ 3KN55 RELAY
22.	1	SMOKE DETECTOR. 3KN56 W/ 3KN55 RELAY
21.	2	10# ABC FIRE EXTINGUISHER #4T889
20.	1	36" BASEBOARD HEATER, # 3UG83,
19.	3	2E206 THERMOSTAT, (VENTILATION, BASEBOARD HEATER)
18.	1	30" INTAKE DAMPER W/ HOOD #3C234
17.	1	24" EXHAUST DAMPER W/ HOOD #3C315
16.	1	12" INTAKE DAMPER W/ WEATHERPROOF HOOD ##4C556 W/ #2C831 MOTOR
15.	2	12" EXHAUST FANS #1HLA2 W/ WEATHERPROOF HOOD
14.	2	100 W EXTERIOR LIGHT W/ VANDAL PROOF POLYCARBONATE
		LENS W/PE CELL #3GB98 W/ # 1NC57 BACK BOX
13.	1	ALANTIC SCIENTIFIC SURGE ARRESTER # 11214
12.	1	200 AMP METER SOCKET, MILBANK #U4801-XL
11.	1	200 AMP MAIN DISCONNECT, NEMA 3R, SQD # Q022200NRB W/ QBL22200 BREAKER
10.	1	120/240V., 200A. 1 PHASE DISTRIBUTION PANEL W/ 200A.
		MAIN BREAKER AND 40 POSITIONS, SQD#Q0140M200
9.	2	EXTERIOR GFI RECEPTACLE
8.	6	4', 2 BULB FLOURESCENT LIGHT FIXTURE
7.	1	MC3000A MASTER CONTROLLER
6.	2	WALL MOUNT AIR CONDITIONER, BARD 2 TON W5/KW HEAT #WA242-A05PXXXXJ
5.	10	110V. DUPLEX RECEPTACLES
4.	A/R	4" SQUARE RACEWAY
3.	2	LIGHT SWITCH SPEC. GRADE
2.	1	4' X 7' STEEL INSULATED DOOR AND FRAME W/BAKED
		ON ENAMEL PAINT (PLYCO SERIES 88) W/S.S. BALL
		BEARING HINGES W/NON REMOVEABLE PINS, SCHLAGE
		PASSAGE & MEDICO DEADBOLT, PICKPLATE & HYDRAULIC
		CLOSURE. BOTH DOOR LOCKS KEYED ALIKE .
1.	1	3'X7' STEEL INSULATED DOOR AND FRAME W/BAKED
		ON ENAMEL PAINT (PLYCO SERIES 88) W/S.S. BALL
		BEARING HINGES W/NON REMOVEABLE PINS, SCHLAGE
		PASSAGE & MEDICO DEADBOLT, PICKPLATE & HYDRAULIC
		CLOSURE. BOTH DOOR LOCKS KEYED ALIKE .
NO.	QTY.	DESCRIPTION
LIST OF MATERIAL		

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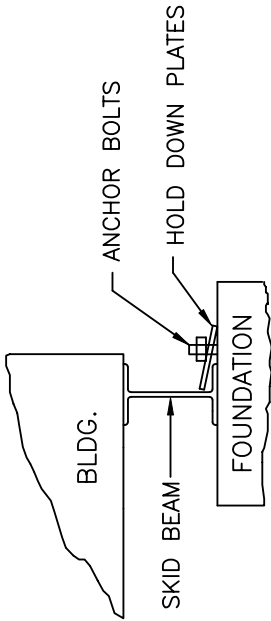
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Drawn By: DJO	<u>PROJECT NUMBER:</u> 8/2/10		<u>Drawing Number:</u> AGB8477
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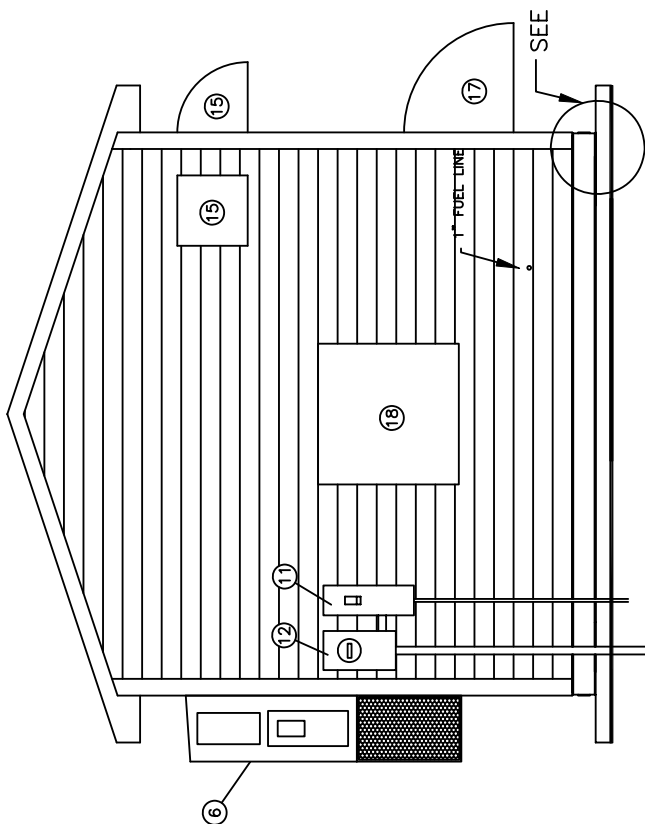
RIGHT ELEVATION



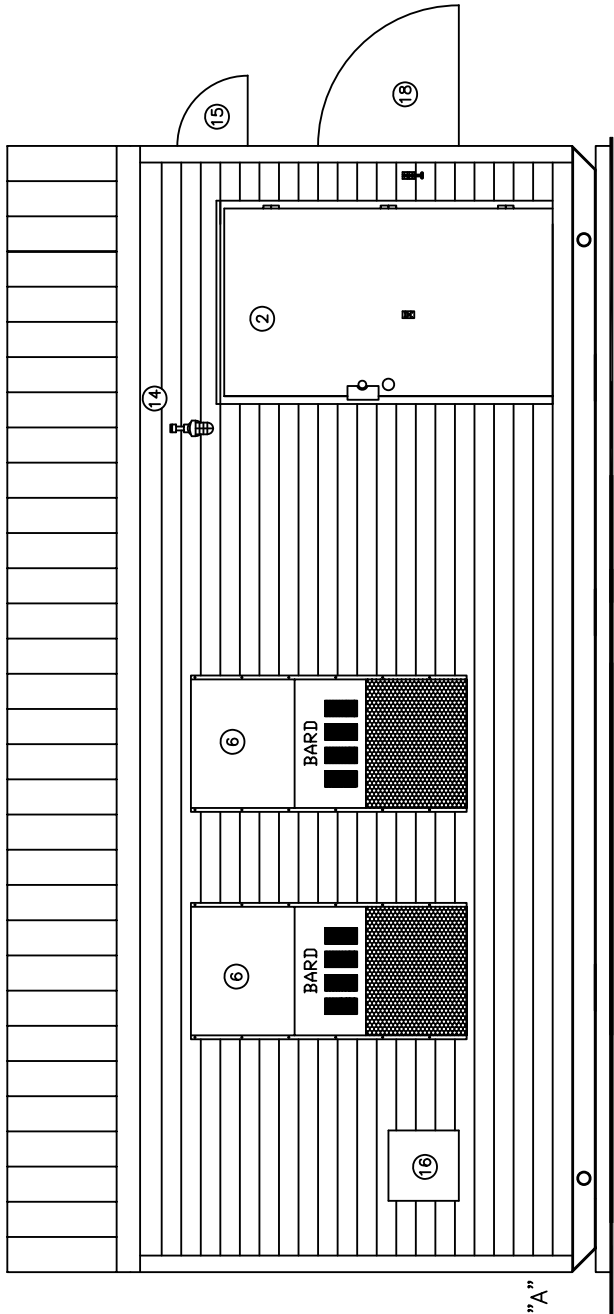
FRONT ELEVATION



DETAIL "A"



LEFT ELEVATION



REAR ELEVATION

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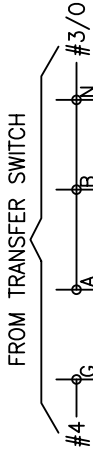
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Date: 7/21/10	12'W. X 24'L. X 9'H. BLDG.
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Approved By:	Drawing Number: AGB8477
COMPUTER AIDED DRAWING AGB8477A	
PAGE 5 OF 9	



PANEL CIRCUIT SCHEDULE										SERVICE: _____					
DESIGNATION: _____										LOCATION: _____					
LOAD										A.L.R.	WIRE SIZE	POLES	TRIP	LOAD	
DESCRIPTION										A.L.R.	WIRE SIZE	POLES	TRIP	DESCRIPTION	
1	EQUIPMENT ROOM LIGHTS									10k	10	2	30	HVAC	2
3	EQUIPMENT RM. OUTLETS									10k	10	2	30	HVAC	4
5	EQUIPMENT RM. OUTLETS									10k	10	2	30	HVAC	6
7	GENERATOR RM. OUTLETS									10k	10	2	30	HVAC	8
9	GENERATOR ROOM LIGHTS									10k	12	1	20	GENERATOR ROOM VENTILATION	10
11	EQUIPMENT ROOM VENTILATION									10k	12	1	20	GFI	12
13	SMOKE/HEAT DETECTOR									10k	10	2	30	POWER FAIL	14
15															16
17															18
19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37										10k	8	2	60	SURGE ARRESTOR	38
39															40
VOLTAGE: 240/120 PHASE: 1 WIRES: 4 CY. 60										MANUFACTURER: SQUARE D					
MAIN BREAKER: ☒ 200 AMP AIR 22k										CATALOG NUMBERS: Q0140M200					
MLO ☐ MAIN BUS: ☒ 200 AMP										NO EQUAL: ☐ APPROVED EQUAL: ☒					
FEEDS : TOP ☒ BOTTOM ☐										MOUNTING: SURFACE ☒ FLUSH ☐					

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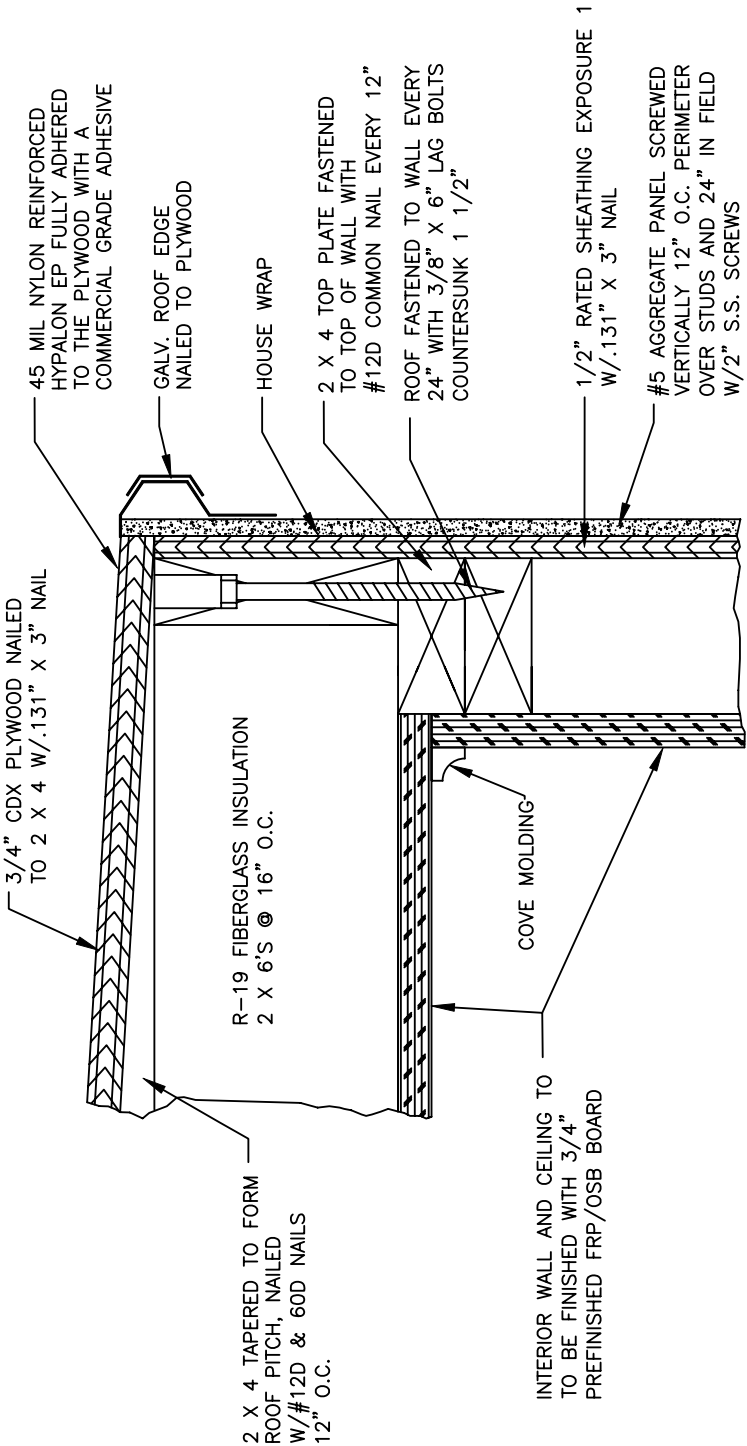
PROJECT
INTERSTATE TELCOM COOP
JOB NO.
1004-45
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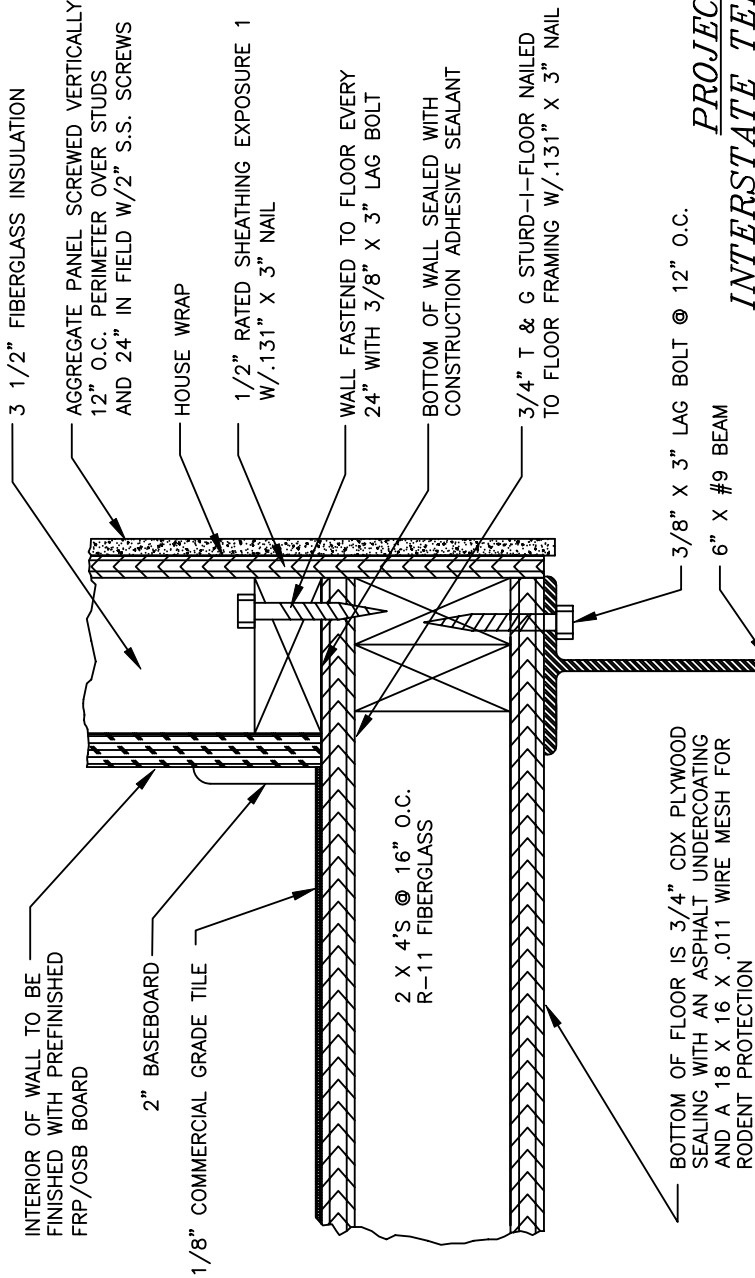
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PAGE 6 OF 9



WALL TO ROOF DETAIL



WALL TO FLOOR DETAIL

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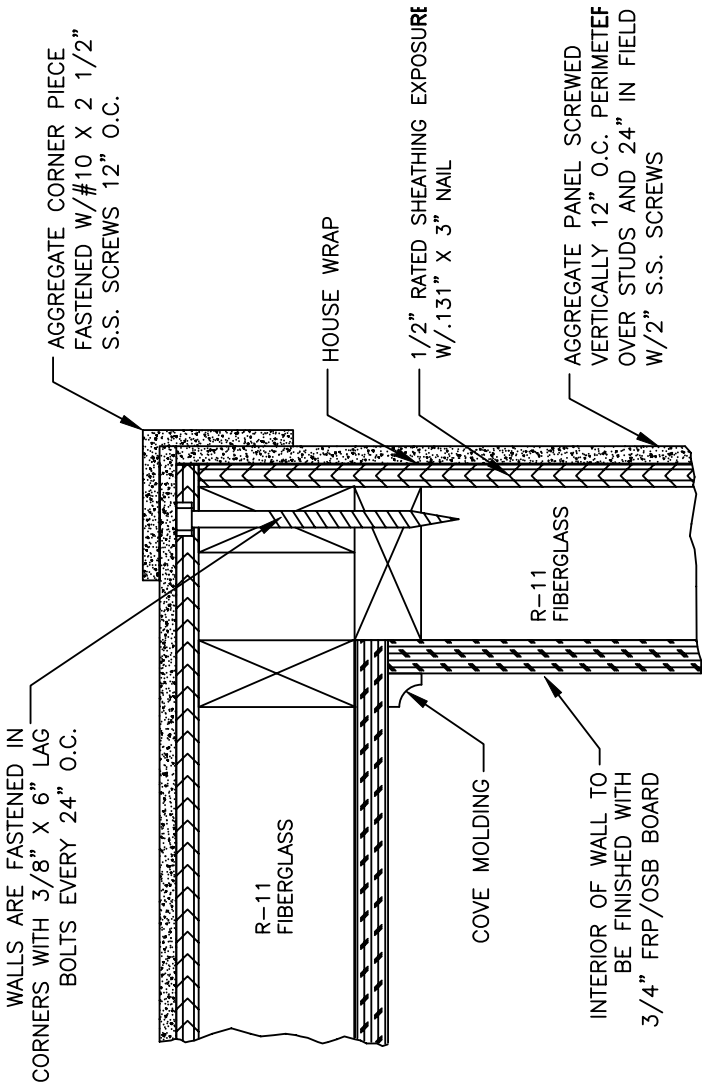
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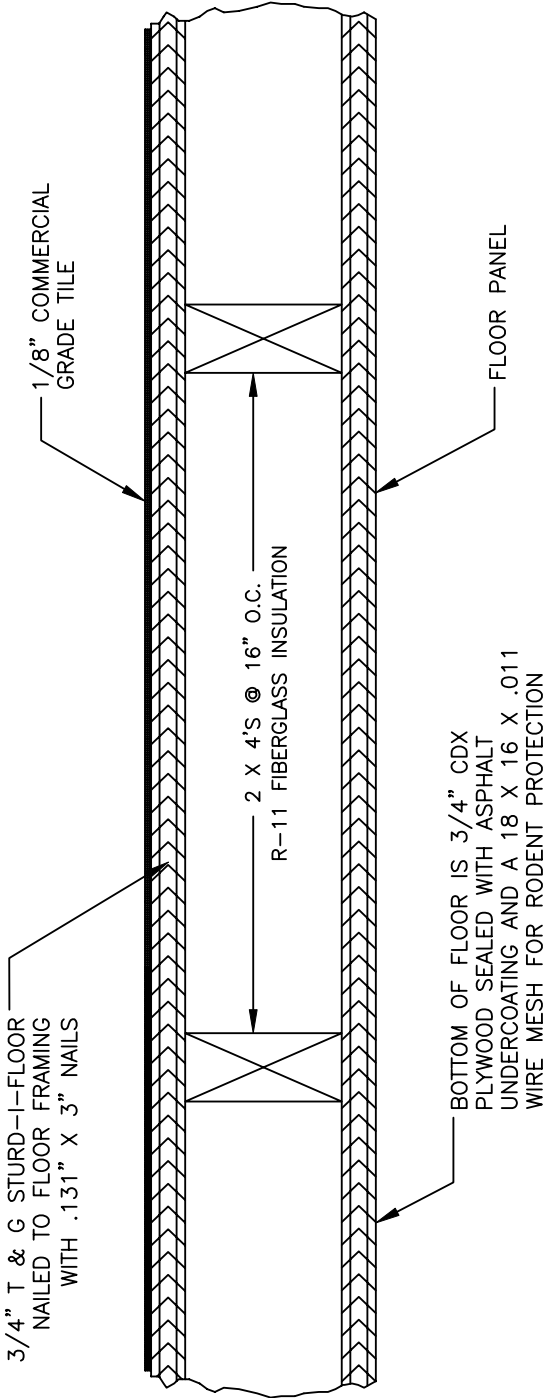
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	PAGE 7 OF 9



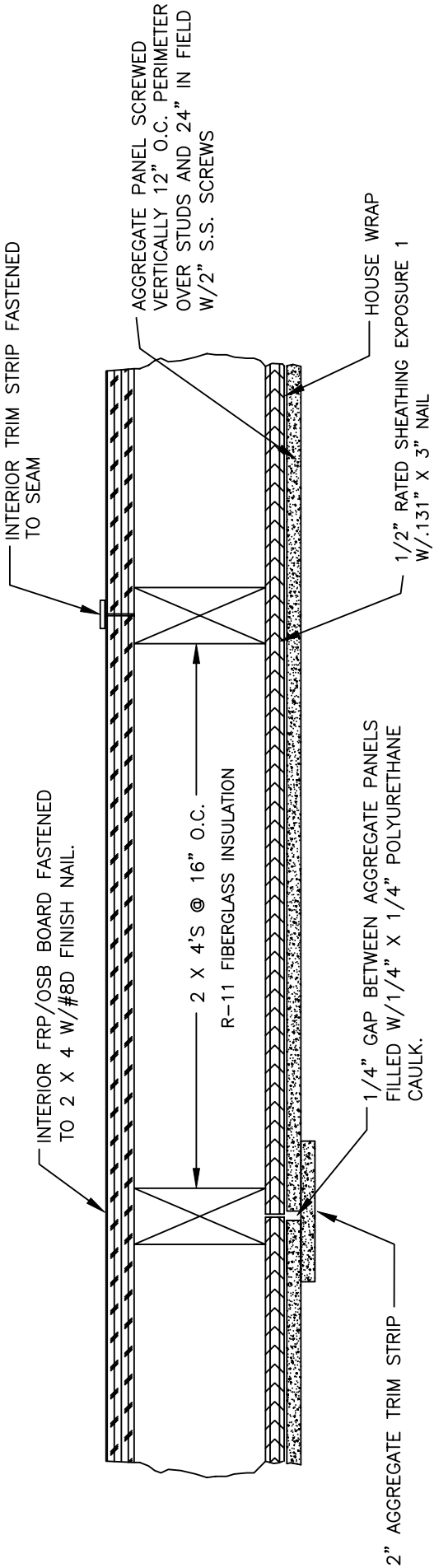
WALL CORNER DETAIL

NOTES:

1. ALL PLYWOOD SHALL BE NAILED EVERY 6" AROUND PERIMETER AND EVERY 12" IN FIELD.
2. HOUSE WRAP TO BE INSTALLED 1/8" BELOW SHEETING AND EXTEND TO TOP OF TOP PLATE. ALL SEAMS TO BE LAPPED 6" AND TAPED W/SEAM TAPE.
3. ALL SCREW HOLES THROUGH PANELS FILLED WITH POLYURETHANE CAULK PRIOR TO SCREW BEING INSTALLED.
4. ALL STRUCTURAL LUMBER SHALL BE SPF #1 OR #2.
5. ALL CDX, EXTERIOR SHEATHING & T&G GLUED TO STUDS WITH INER 45 FOAM GLUE TO ALL STUDS BEFORE NAILING.



FLOOR DETAIL



WALL DETAIL

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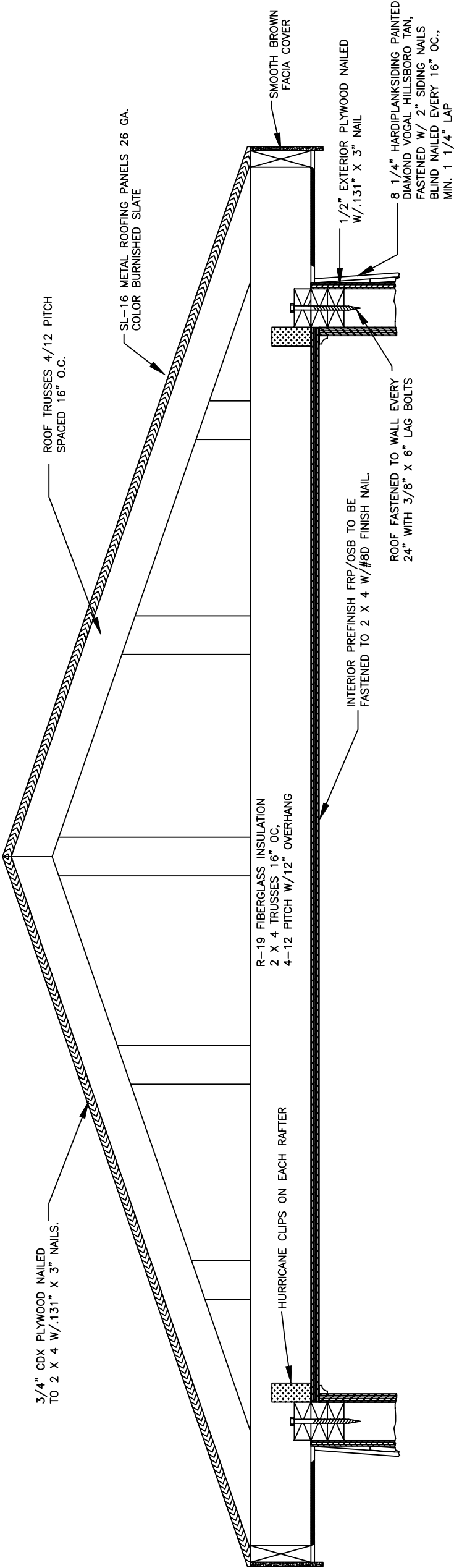
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5. ALL CDX, EXTERIOR SHEATHING & T&G GLUED TO STUDS WITH INER 45 FOAM GLUE TO ALL STUDS BEFORE NAILING.

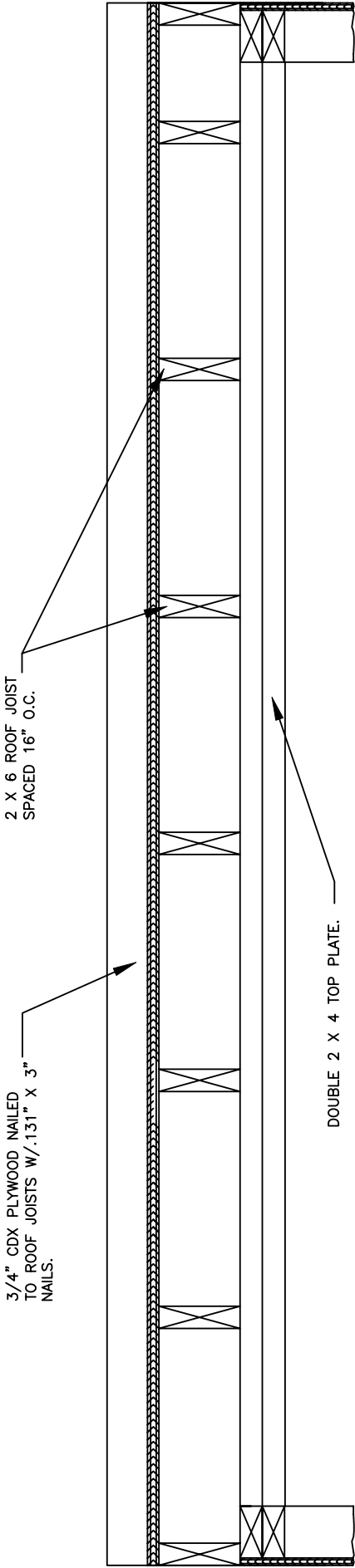


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Approved By:	Drawing Number: AGB8477
COMPUTER AIDED DRAWING AGB8477D	
PAGE 8 OF 9	



ROOF STRUCTURE END DETAIL



ROOF STRUCTURE SIDE DETAIL

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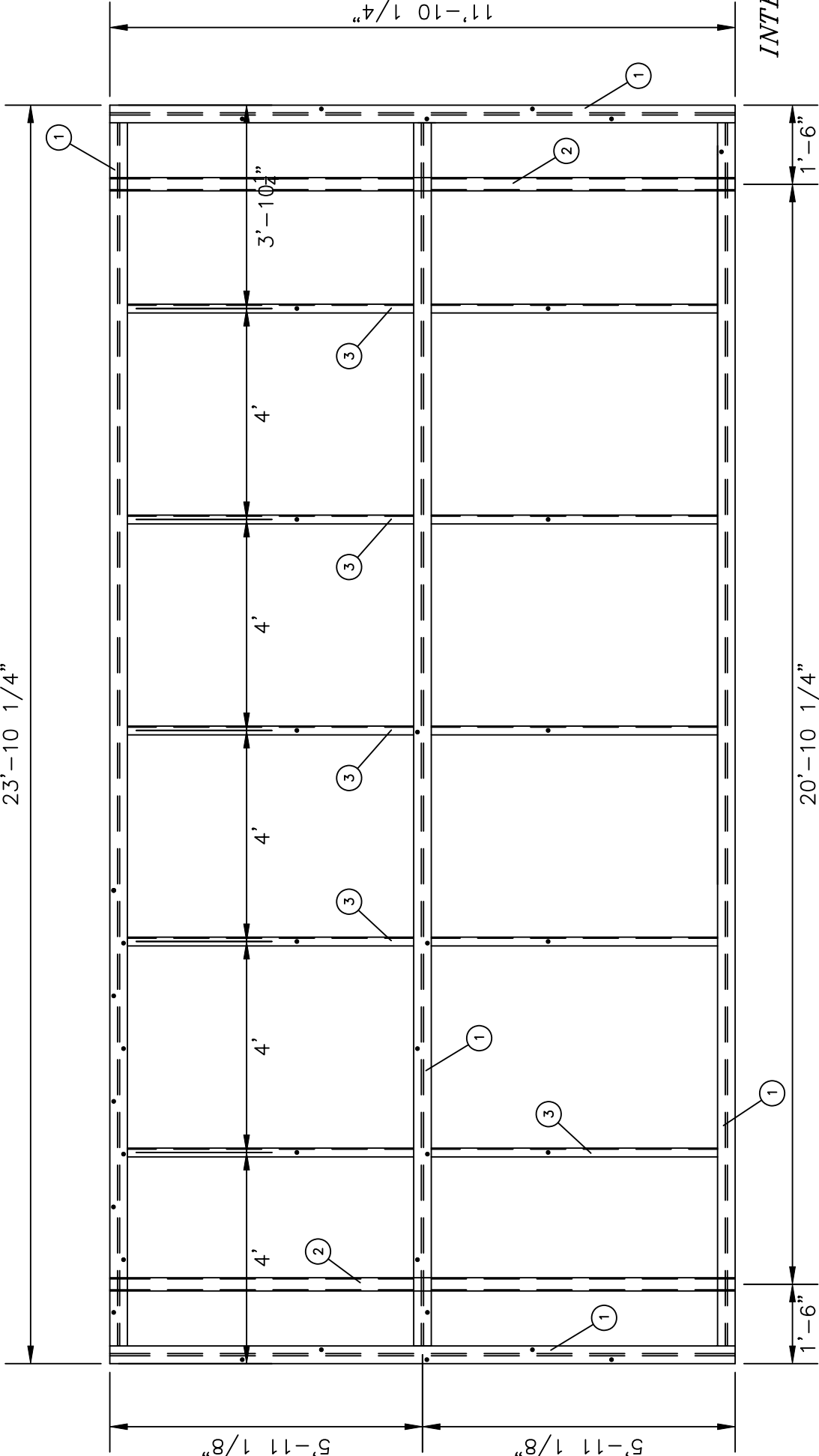
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Drawn By: DUO	PROJECT NUMBER:
Approved By:	Drawing Number: AGB8477
	COMPUTER AIDED DRAWING AGB8477E
	PAGE 9 OF 9



THIS DRAWING CONTAINS
PROPRIETARY INFORMATION OF
THERMOBOND BUILDINGS, LLC.
IT IS INTENDED SOLELY FOR
THE INFORMATION AND USE
OF PARTIES OPERATING AND
MAINTAINING THE EQUIPMENT
DESCRIBED HEREIN AND MAY
NOT BE USED, REPRODUCED
OR DISCLOSED TO ANY OTHER
PARTIES FOR ANY OTHER
PURPOSE WITHOUT THE
EXPRESSED WRITTEN
PERMISSION OF THERMOBOND
BUILDINGS, LLC.

PROJECT
INTERSTATE TELCOM COOP
JOB NO.
1004-45
SITE NAME
BROOKINGS, SD

3.	6	15B7002	ANGLE, SUPPORT (2 X 2 X 1/4)	173.1#
2.	2		PIPE SUPPORT (3" NOM. SCH 40)	179.7#
1.	5	15B6020	BEAM SUPPORT (W6 X 9#) GRADE 50	839.4#
NO.	QTY.	DWG NO.	DESCRIPTION	WEIGHT
LIST OF MATERIAL				
TOTAL BLACK STEEL WEIGHT 1136.1#				



209 N. Court P.O. Box 445, Elk Point, SD 57025-0445
Phone: 605-358-2090, www.thermobond.com

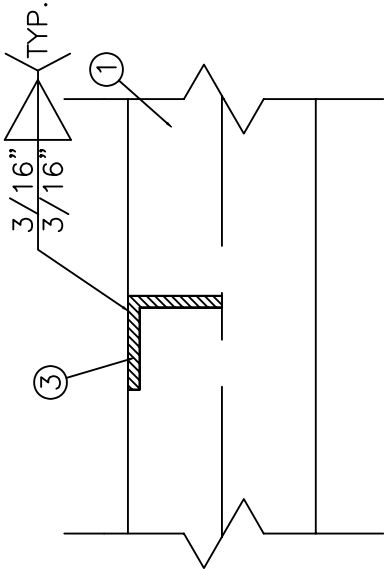
Scale:	AS NOTED	Title:	BOX BUILDING SKID ASSEMBLY
Date:	7/21/10		FOR 12' X 24' BUILDING
Drawn By:	DJO	PROJECT NUMBER:	
Approved By:		Drawing Number:	15B1224
		COMPUTER AIDED DRAWING 15B1224	PAGE 1 OF 1

3/8" = 1' SCALE
TOP VIEW

WELDED ASSEMBLY

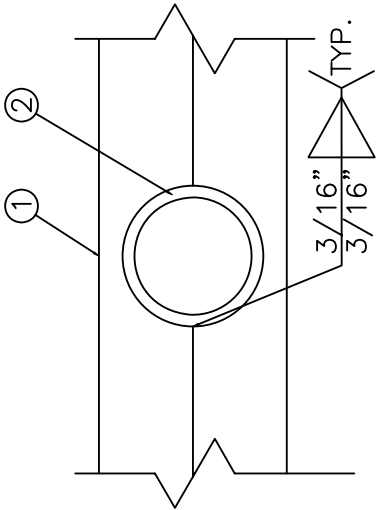
NOTES:
1. FINISH: PAINTED WITH RUST PREVENTATIVE PAINT.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
SHOWN ON THIS DRAWING SHALL HAVE THE
FOLLOWING TOLERANCE:
FRACTION $\pm 1/8"$
ANGLE $\pm 2^\circ$



3" = 1' SCALE

SECTION "A-A"

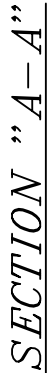


3" = 1' SCALE

SECTION "B-B"



1. CONCRETE SHALL ATTAIN A MINIMUM ULTIMATE COMPRESSION STRENGTH OF 4000 PSI WITHIN 28 DAYS.
2. ALL WIRE MESH TO HAVE A MINIMUM OF 2" CONCRETE COVER.



THERMOBOND
BUILDINGS

209 N. Court P.O. Box 445, Elk Point, SD. 57025-0445
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Scale: 3/8" = 1' **Title:** SLAB BUILDING FOUNDATION FOR 12' X 24' BUILDING
Date: 7/21/10

Drawn By:	D.10	PROJECT NUMBER:	Drawing Number:
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COMPUTER AIDED DRAWING \$15B1224

Typical Construction Equipment on Site During Installation.*



Photo 1: Typical cable plowing operation.



Photo 2: Typical directional boring equipment.



Photo 3: Paired conduit with fiber optic cable installed in one.



Photo 4: Directional boring equipment.

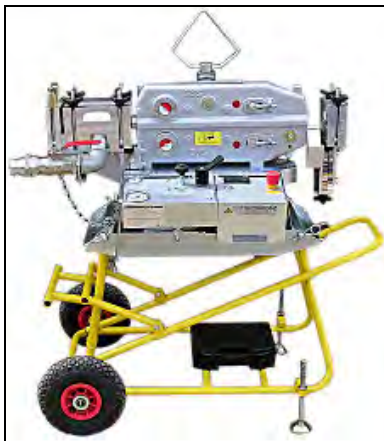


Photo 5: Tornado fiber optic blowing machine.



Photo 6: Rock saw



Photo 7: Off-set plow.



Photo 8: Rock saw.

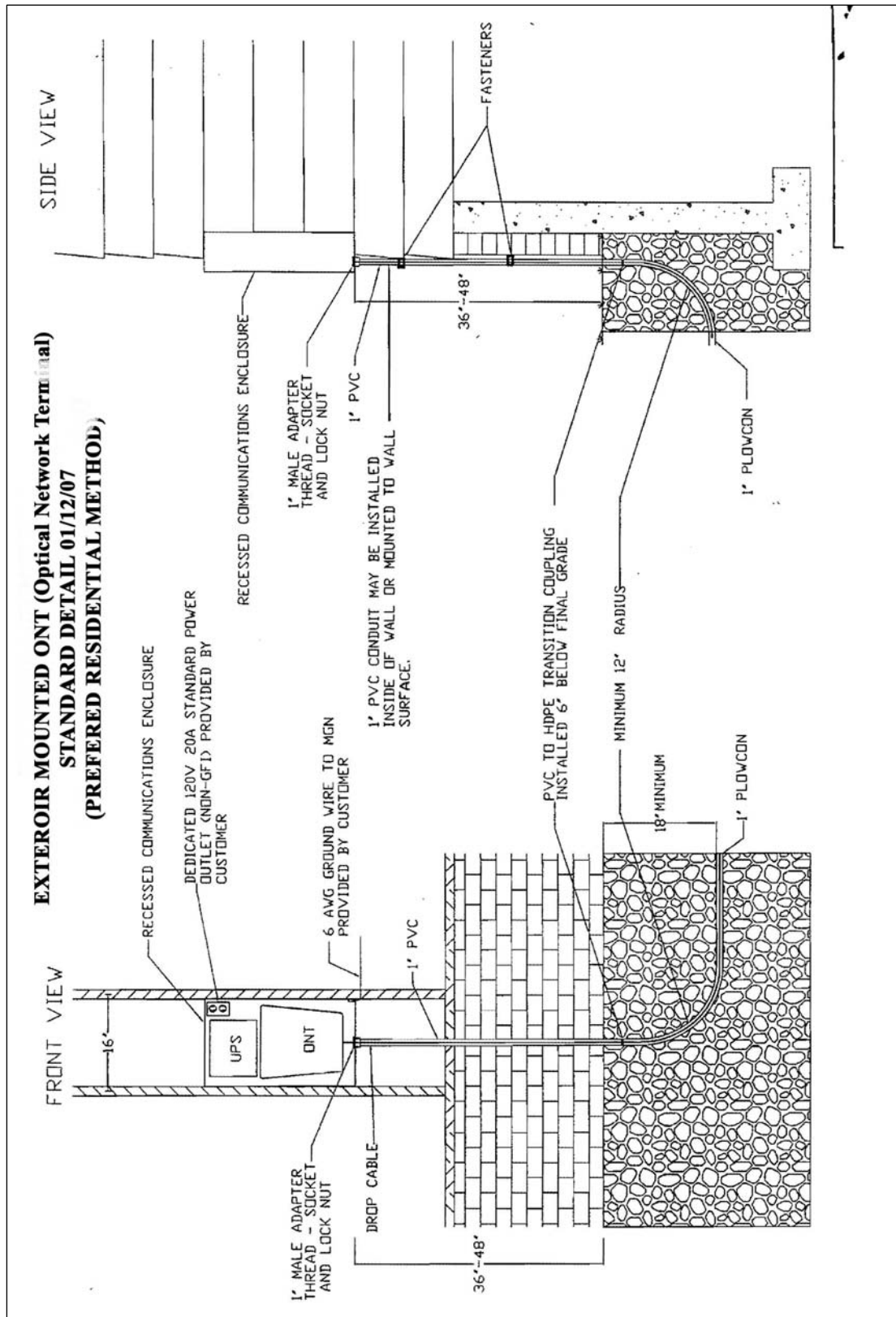


Photo 9: Single line cable plow operation.



Photo 10: Conduit installation under bridge.

*Although the above equipment is typical, the actual machines used may vary depending on the various contractors hired for the installation.



Typical exterior mounted optical network terminal (ONT) schematic.