



802 3rd Street, Suite 224
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Total number of pages contained within this Addendum: 103

(See Reverse Side for Instructions)

Bid Phase: _____ Bidder: _____

1. This worksheet accurately reports the type and quantity of product(s) that: (a) qualify for application of the Alaska Product Preference under AS 36.30.321 *et seq.* and (b) this bidder will use in performing the advertised project, if awarded the contract; and
2. All listed product(s) are specified for use on the project and will be permanently incorporated; and
3. I am the duly appointed representative of this bidder, which has authorized and empowered me to legally bind it concerning its proposal.

Date _____

[illegible]

INSTRUCTIONS FOR ALASKA PRODUCTS PREFERENCE WORKSHEET

Special Notice: All procurements, except those funded from Federal sources, shall contain Contract provisions for the preference of Alaska products. To be considered for the Alaska Product Preference, each product listed by the Bidder on this worksheet must have current certification from the Alaska Products Preference Program at the time of Bid Opening or the proposal due date. A product with expired certification at the bid opening or proposal due date will not be considered eligible. Products that are not specified for use on the project will not be considered eligible.

The Alaska Product Preference Program List of certified products is available online at:

<https://www.commerce.alaska.gov/web/dcra/AlaskaProductPreferenceProgram.aspx> or may be obtained by contacting Dept. of Commerce & Economic Development Alaska Division of Community and Regional Affairs, Alaska Products Preference Program, 550 W. 7th Ave., Suite 1650, Anchorage AK 99501-3510; Phone: (907) 269- 4501 Fax: (907) 269-4563, E-mail: madeinalaska@alaska.gov

BIDDERS INSTRUCTIONS:

A. General. The contracting Agency may request documentation to support entries made on this form. False presentations may be subject to AS 36.30.687. All Bidder's entries must conform to the requirements covering bid preparations in general. Discrepancies in price extensions shall be resolved by multiplying the declared total value times the preference percentage and adjusting any resulting computation(s) accordingly.

B. Form Completion – BASIC BIDS.

- (1) Enter project number and name, the words "Basic Bid" and the CONTRACTOR'S name in the heading of each page as provided.
- (2) The Bidder shall compare those candidate products appearing on the preference listing (see Special Notice comments above) against the requirements of the technical specifications appearing in the contract documents. If the Bidder determines that a candidate product can suitably meet the contract requirements, then that product may be included in the worksheet as follows.
- (3) For each suitable product submitted under the "Basic Bid" enter:
 - The product name, generic description and its corresponding technical specification section number under the heading "PRODUCT",
 - The company name of the Alaska producer under the heading "Manufacturer", and
 - The product class (I, II, or III) and preference percentage (3, 5, or 7% respectively) under the "CLASS/% heading.
- (4) For each product appearing on the list and to be utilized by the CONTRACTOR enter:
 - Under the heading "TOTAL DECLARED VALUE" the manufacturer's quoted price of the product, (caution: this value is to be the manufacturer's quoted price at the place of origin and shall not include costs for freight, handling or miscellaneous charges of incorporating the product into the Work,) and
 - The resulting preference – i.e. the preference percentage times the total declared value amount – under the heading "REDUCTION AMOUNT".
- (5) Continue for all "suitable" basic bid products. If the listing exceeds one page enter the words "Page # ___ SUB" in front of the word "TOTAL" and on the first line of the following pages enter "SUBTOTAL OF REDUCTION AMOUNT FROM PREVIOUS PAGE".
- (6) On the final page of the listing enter "BASIC BID PREFERENCE GRAND" immediately before the word "TOTAL".
- (7) Total the entries in the "REDUCTION AMOUNT" column for each page by commencing at the first entry for that page. If a continuation page exists, ensure that the subtotal from the previous page is computed into the running total. Number pages as appropriate.
- (8) Compute a Grand Total for the Basic Bid Preference. Enter the amount on the final page of the worksheet. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Basic Bid Schedule.) Submit worksheet(s) with the Bid Schedule.

C. Form Completion – ALTERNATE BIDS.

- (1) Enter project number and name, the words "ALTERNATE BID #___", and CONTRACTOR'S name in the heading of each page as provided.
- (2) On the first entry line enter "ADDITIONAL ALASKA PRODUCTS FOR ALTERNATE BID #___", and repeat procedures 2 through 5 under part B these Bidder's instructions except that references to "Basic Bid" shall be replaced with the words "Alternate Bid #___".
- (3) Following the listing of all additional Alaska products enter the words "ADDITIONAL PRODUCTS PREFERENCE FOR ALTERNATE BID #___ - SUBTOTAL" and enter a subtotal amount for all additional products as listed. Subtotal amount to be determined by adding all additional product entries in the "REDUCTION AMOUNT" column.
- (4) Skip three lines and enter "LESS THE FOLLOWING NON-APPLICABLE ALASKA PRODUCTS:
- (5) Beginning on the next line, enter the product name and manufacturer of each Alaska Product appearing on the "Basic Bid" listing which would be deleted or reduced from the Project should the "Alternate Bid" be selected. Details of entry need only be sufficient to clearly reference the subject product. (i.e. "Pre-hung doors by Alaska Door Co., Anchorage.") Products being reduced shall specify the amount of the reduction. Should no products require deletion enter "None". When a product is listed as a "NON-APPLICABLE ALASKA PRODUCT" for this alternate bid and if under the basic bid the Bidder received a preference on his basic bid as a result of that product, then the applicable entries under the headings "TOTAL DECLARED VALUE" and "REDUCTION AMOUNT" (for each product and from the basic bid listing) shall also be entered into the corresponding headings of this form. Where only a portion of the products has been deleted, the entry (which will differ from those on the basic bid listing) may be "pro-rated" or as otherwise substantiated.
- (6) Following the listing of all non-applicable Alaska products enter the words "NON-APPLICABLE PRODUCTS PREFERENCE FROM BASIC BID ___ SUBTOTAL" and enter a subtotal amount for all non-applicable products listed. Subtotal amount to be determined by adding all non-applicable entries in the "REDUCTION AMOUNT" column.
- (7) At the bottom of the final page enter the words "ALTERNATE BID #___ PREFERENCE GRAND" immediately before the word "TOTAL".
- (8) Compute a Grand Total for the Alternate Bid Preference (for Alternate #___) by subtracting the non-applicable product preference subtotal from the additional product preference subtotal. Enter on the final page. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Alternate Bid Schedule.) Submit separate worksheet(s) with each Alternate Bid



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALUTIA IMAI, CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Approved: _____	
Date: _____	
PRIME CONTRACTOR WESTPORT ENGINEERS	

Qty	Action	Description	Date	Appvd

Alutia
3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

COMARK
Manufacturing Contractors LLC
99503
907.222.9500

Drawn: COMARK
Checked: LHM
Reviewed: COMARK
Submitted: COMARK

Date: 3-10-06
Plot Scale: 1:1
Title: FTR2453.0
Drawing File: 04-07-231-11-07

W911KB-05-0009

FORT RICHARDSON, ALASKA
FTR245 INTERIM FACILITIES
FOR AIRBORNE COMBAT BRIGADE

64th BARRACKS
CODE PLAN 1
AS-BUILT DRAWINGS

THE VENT STACK KEY

FURNACE MAKE UP AIR

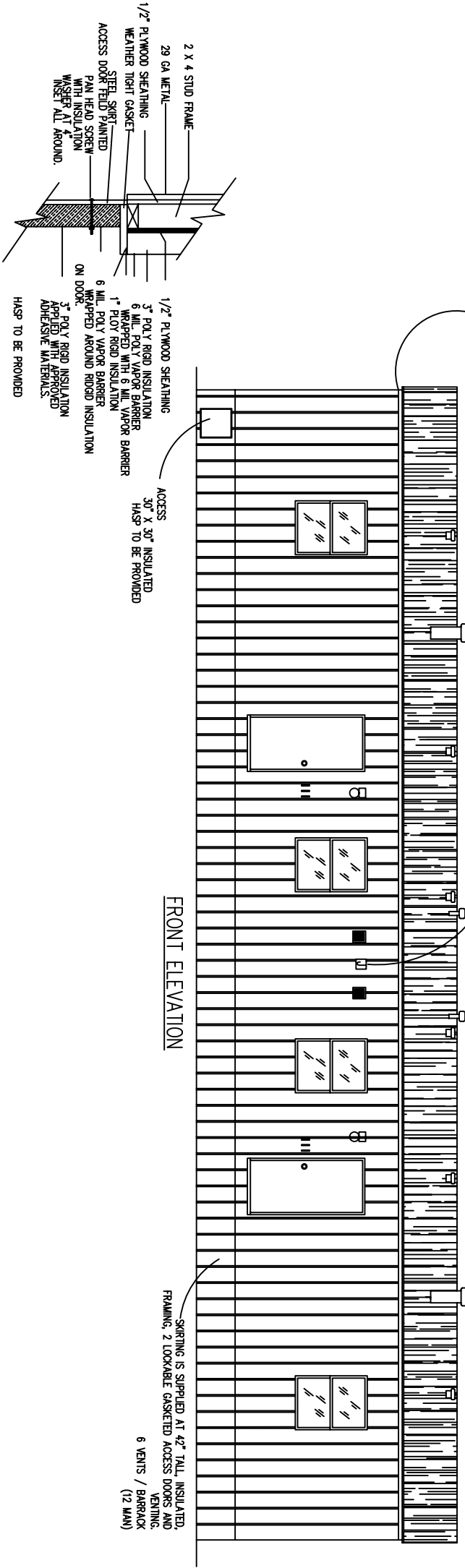
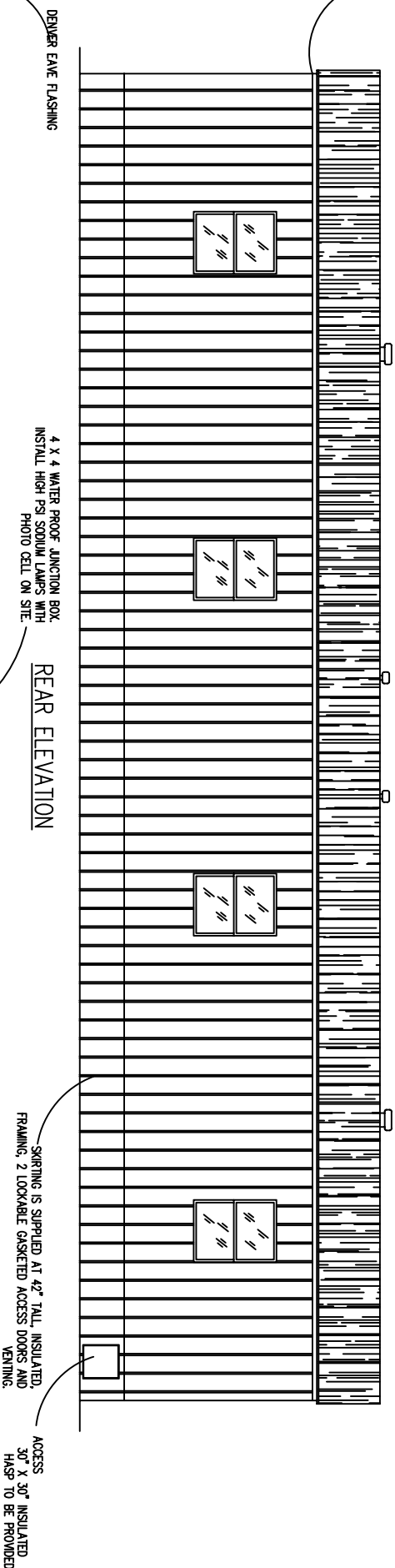
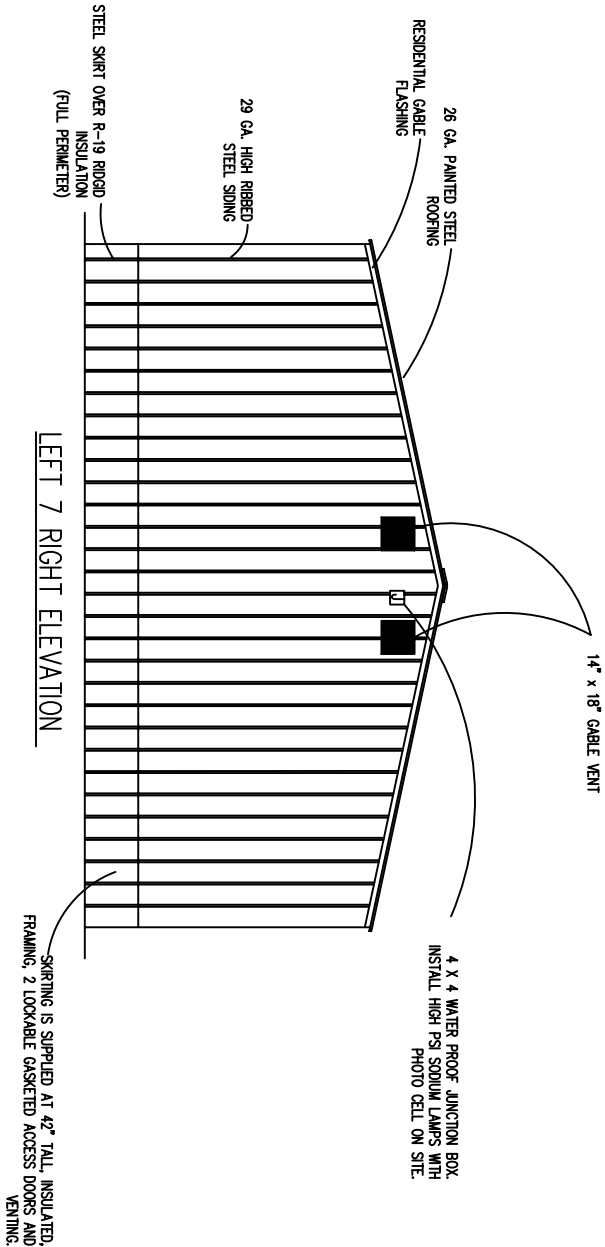
FURNACE EXHAUST

40-GAL WATER HEATER COMB/EXHAUST

EXHAUST FAN (BATH, COMMON AREA, MECH. RM)

PLUMBING VENTS

100 GAL. WATER HEATER COMB/EXHAUST





[illegible]


FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64_BARACKS
 CODE_PLAN_1
 AS-BUILT_DRAWINGS


[illegible]


FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
64_BARACKS
CODE_PLAN_1
AS-BUILT_DRAWINGS



 VENTILATED "J" TOP CLOSURE STRIP
 $4" \times 1 \frac{1}{2}" \times 2"$



 RESIDENTIAL GABLE
 $1 \frac{1}{2}" \times 4 \frac{1}{4}" \times 2 \frac{1}{2}" \times 1 \frac{1}{16}" \times 7 \frac{7}{8}"$



 DENVER EAVE
 $3" \times 3 \frac{1}{2}" \times 1 \frac{1}{2}"$

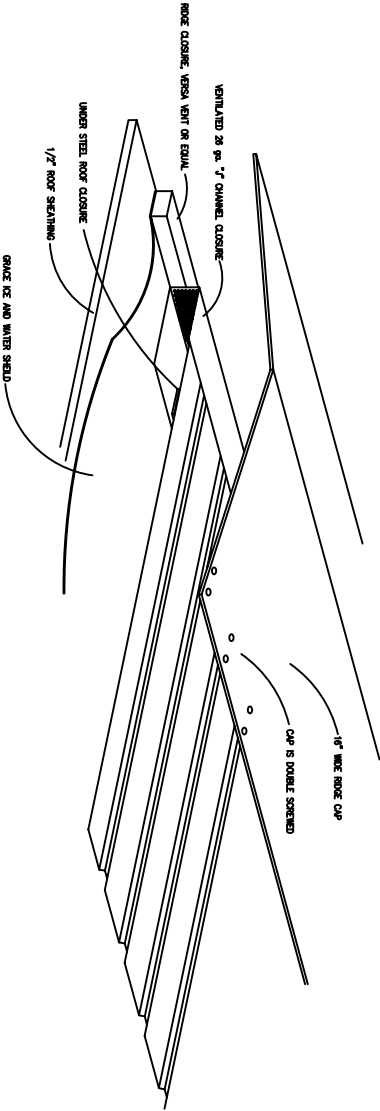

 RIDGE STEEL ROOF CLOSE-UP
 $16" \times \text{LENGTH}$


 AL-3, J-CHANNEL
 $2 \frac{1}{4}" \times 1 \frac{1}{2}" \times 1"$


 AC-1 CORNER
 $1 \frac{3}{8}" \times 1 \frac{1}{16}" \times 4 \frac{3}{8}" // 3 \frac{1}{4}" \text{ OFFSET}$


 ROOF AND WALL JOINING CAP
 $1 \frac{3}{8}" \times 1 \frac{1}{16}" \times 4 \frac{1}{2}" // 3 \frac{1}{4}" \text{ OFFSET}$


 ACCOMMODATES 0° TO 6° GAP



NOTES:

1. SUBSTITUTION METHODS:

A. WHEN QUANTITIES ARE SPECIFIED MULTIPLY THE QUANTITY OF "SPECIFIED FASTENERS" BY THE FACTOR FROM THE TABLE FOR THE "DESIRED FASTENER" TO ARRIVE AT THE EQUIVALENT NUMBER OF FASTENERS.

EXAMPLE: DRAWING SPECIFIES (7) 16 GA STAPLES, TO FIND THE EQUIVALENT NUMBER OF .162 d NAILS MULTIPLY 7 BY THE FACTOR OF .49 WHICH EQUALS 3.43 OR 4 NAILS.

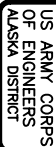
B. WHEN SPACINGS ARE SPECIFIED DIVIDE THE SPECIFIED SPACING FOR THE "SPECIFIED FASTENER" BY THE FACTOR FROM THE TABLE FOR THE "DESIRED FASTENER" TO ARRIVE AT THE EQUIVALENT SPACING.

EXAMPLE: DRAWING SPECIFIES .131 d NAILS AT 8" OC, TO FIND THE EQUIVALENT SPACING FOR 16 GA STAPLES DIVIDE 8" BY THE FACTOR OF 1.50 WHICH EQUALS 5.33" OC.

MINIMUM 3/4" SIDE MEMBER LUMBER IS REQUIRED.

NOTES:

1. FASTENERS MAY BE "TOED" PROVIDED THE FASTENER SPACING IS 2/3 OF THAT SPECIFIED AND QUANTITIES ARE MULTIPLIED BY 1.50.
2. CROWN OF STAPLE MAY BE IN ANY ORIENTATION UNLESS OTHERWISE SPECIFIED ON THE DRAWING.
3. NAILS MAY BE GUN OR COMMON PROVIDED THE CORRECT DIAMETER IS USED.
4. SEE DRAWING 010.10 FOR ADDITIONAL NOTES.
5. FASTENERS MUST HAVE THE MINIMUM PENETRATION AS SPECIFIED IN THE TABLE.
6. THIS DRAWING IS APPLICABLE TO Laterally Loaded Fasteners.

[illegible]

FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64_BARRACKS
 CODE_PLAN_1
 AS_BUILT_DRAWINGS

Reference
number:
5A

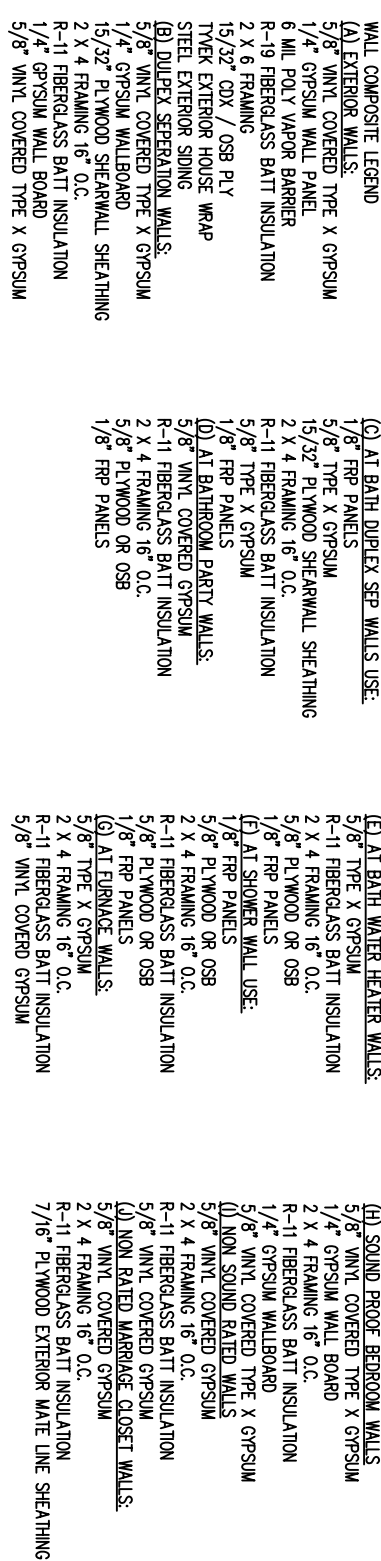
Sheet 7 of 50

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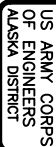
FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64_BARACKS
 CODE_PLAN_1
 AS_BUILT_DRAWINGS

Reference number:
5B

Sheet 8 of 50



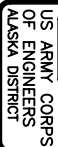
(K) NON RATED MARRIAGE WALLS AT BATHROOMS.	(M) NON RATED BATHROOM / HALLS.
1/8" FRP PANELS	1/8" FRP PANELS
5/8" PLYWOOD OR OSB	5/8" PLYWOOD OR OSB
2 X 4 FRAMING 16" O.C.	2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION	R-11 FIBERGLASS BATT INSULATION
7/16" PLYWOOD EXTERIOR MAITE LINE SHEATHING	5/8" VINYL COVERED GYPSUM
(L) NON RATED MARRIAGE WALLS AT WATER HEATER.	
5/8" TYPE X GYPSUM	
2 X 4 FRAMING 16" O.C.	
R-11 FIBERGLASS BATT INSULATION	
7/16" PLYWOOD EXTERIOR MAITE LINE SHEATHING	

[illegible]

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
64_BARRACKS
CODE_PLAN_1
AS_BUILT_DRAWINGS

FLOOR PLAN

A	
B	
C	
D	
E	
F	
G	
H	

[illegible]

FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64_BARACKS
 CODE_PLAN_1
 AS-BUILT_DRAWINGS



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTIMO INV. CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended: _____	
Approved: _____	
Date: _____	

3m. Action	Description	Date	Appvd

3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

Alutiq
Manufacturing Contractors LLC

3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

COMARK
REINFORCED CONCRETE, INC.

Drawn: LHM
Reviewed: COMARK
Submitted: COMARK

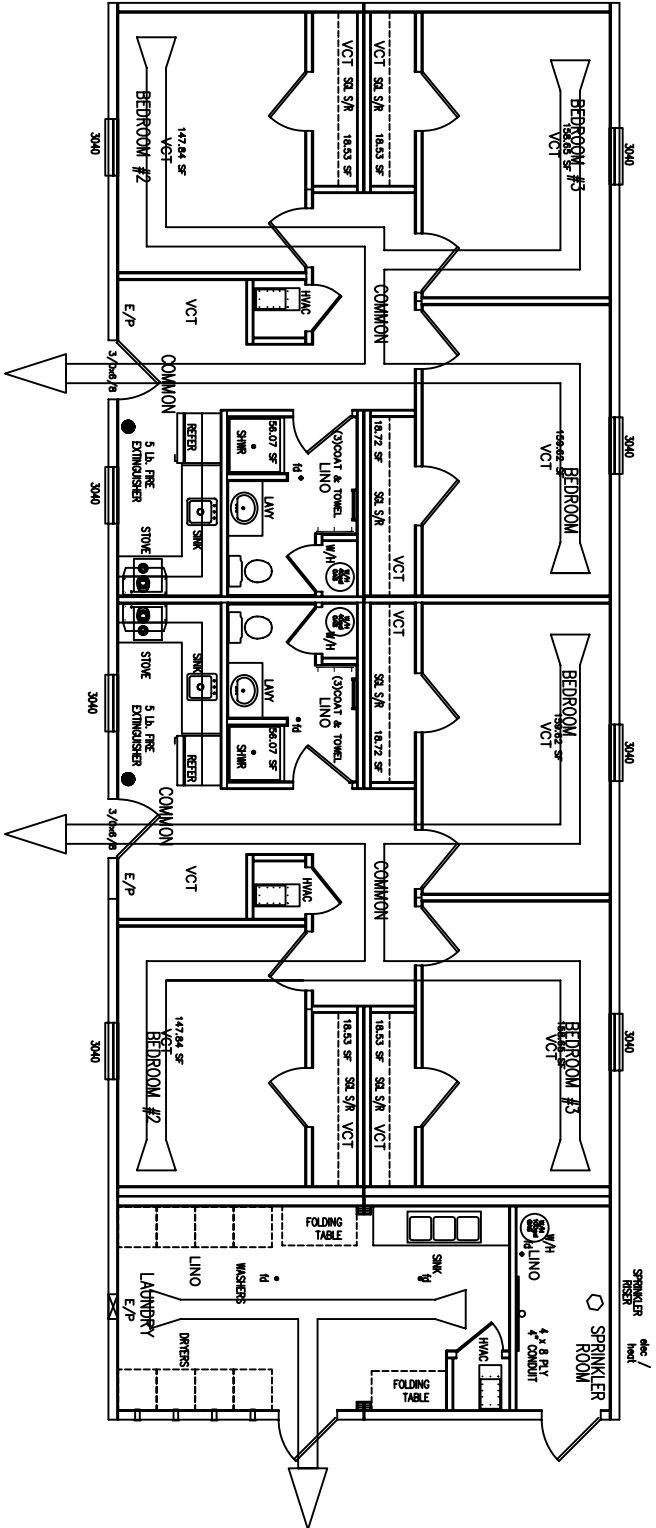
Drawn: LHM
Reviewed: COMARK
Submitted: COMARK

Date: 3-10-06
Plot Scale: 1:1
Title: FTR245.0A

Drawing File: 04-01-721-11-07

W911KB-05-0009

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
64_BARRACKS
CODE_PLAN_1
AS-BUILT_DRAWINGS



CODE ANALYSIS

PROJECT LOCATION: ANCHORAGE, ALASKA
ARCHITECT: GUERDON ENTERPRISES

REQUIRED DESIGN PARAMETERS:

SNOW LOAD: 40 PSF
FLOOR LOAD - LL: 100 PSF GENERAL AREA
100 PSF MECHANICAL AREA
FROST DEPTH: 2
WIND SPEED: 115 MPH
GROUND ACCELERATION: SEISMIC DESIGN CATEGORY "D"
WIND EXPOSURE "C"

BASIC REQUIREMENTS
MAJOR USE: RESIDENTIAL DOMATORY
OCCUPANCY LOAD: 6 UNIT RESIDENTIAL @ LAUNDRY

TYPE OF CONSTRUCTION
TYPE VB

FIRE RESISTANCE SEPARATION
A) 1-HOUR FIRE SEPARATION WALL, NOT REQUIRED
B) MIN --' SEPARATION FROM PROPANE LINE

BUILDING HEIGHT
SINGLE STORY 13'5"

FIRE PROTECTION
AUTOMATIC FIRE SPRINKLER: YES-NPFA 13R
FIRE DETECTION SYSTEM: YES-NPFA 72

BASIC FLOOR AREA ALLOWED VERSUS PROPOSED FLOOR AREA

BUILDING	USE:	CONSTR.	BASIC ALLOW FLOOR AREA	PROPOSED FLOOR AREA
64' LIVING UNIT	R-2	V-B	1,750 SQ. FT.	1,750 SQ. FT.
LIVING W/LAUNDRY	R-2	V-B	2,078 SQ. FT.	2,078 SQ. FT.

AREAS - CONSTRUCTION TYPES, AREA SEPARATORS,
OCCUPANCY SEPARATIONS, FIRE WALLS - CODE ANALYSIS

TRAVEL DISTANCE, FOR GROUP R-2
ALLOWED WITHOUT SPRINKLER SYSTEM 200 FT.
ALLOWED WITH SPRINKLER SYSTEM 250 FT.
ACTUAL 50 FT.
ALLOWED COMMON PATH OF EGRESS 75 FT.
ACTUAL 50 FT.

BUILDING WITH 1 EXIT, SECTION 1008.2
OCCUPANCY MAX. STORY HEIGHT AND TRAVEL DISTANCE
R-2 1 STORY 10 OCCUPANTS AND 75 FT. TRAVEL DISTANCE



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALUTIA INC., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended: _____	
Approved: _____	
Date: _____	

Qty.	Action	Description	Date	Apprv.

Alutia

3201 C Street
Anchorage, AK 99503
907.222.9500

COMARK

3000 S. G. Street
Anchorage, AK 99503
907.222.9500

Manufacturing Contractors LLC
3000 S. G. Street
Anchorage, AK 99503
907.222.9500

At Supply Warehouse
3000 S. G. Street
Anchorage, AK 99503
907.222.9500

Drawn: LHM

Reviewed: COMARK

Submittal: COMARK

Design: FTR2457.0A

Working Files: 05-17-23 11-07

Date: 3-10-06

Plot Scale: 1:1

Plot Scale: NTS

Plot Scale: FTR2457.0A

Working Files: 05-17-23 11-07

W911KB-05-0009

Drawn: COMARK

Reviewed: COMARK

Submittal: COMARK

Design: FTR2457.0A

Working Files: 05-17-23 11-07

FORT_RICHARDSON_ALASKA
64th BARACKS
CODE_PLAN_1
AS-BUILT_DRAWINGS
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE

FLOOR PLAN

- NOTES:
- 2 x 6 EXTERIOR WALL FRAMING.
 - SIDING AND/OR SHEATHING NOT INCLUDED IN EXTERIOR WALL THICKNESS.
 - RANGE HOOD IS VENTED TO THE EXTERIOR SIDEWALL.
 - BATHROOM VENT FANS ARE DUCTED TO EXTERIOR.
 - HOMES ARE CRAWL SPACE ACCESSABLE.
 - ALL BEDROOM RECEPTACLES ARE ARC FAULT PROTECTED.

ELECTRICAL SYMBOLS

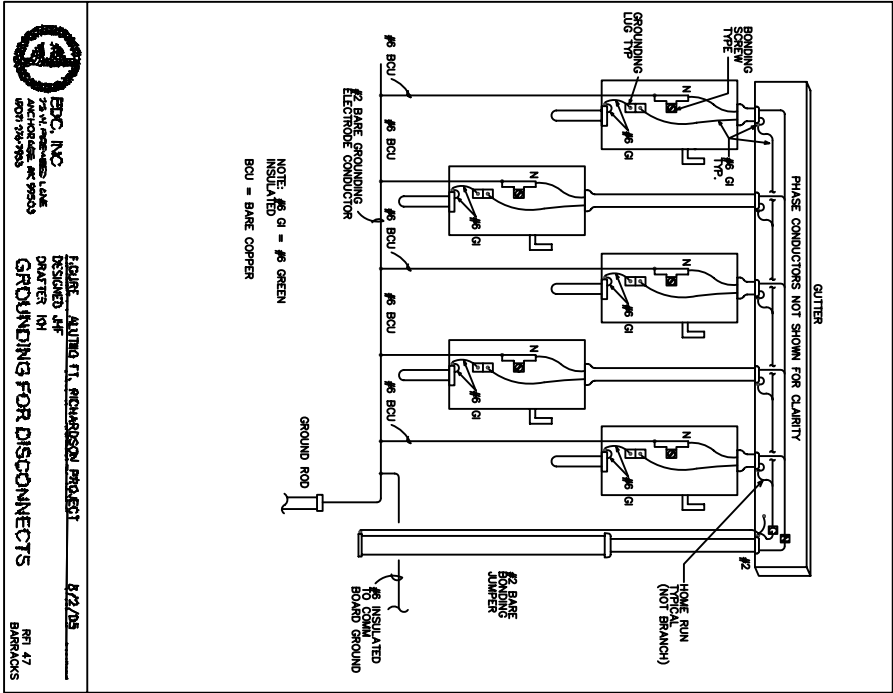
- ⊕ = 20 AMP DUPLEX RECEPTACLE
⊕ = QUAD 20 AMP RECEPTACLE
⊕ = 208 OR 220 VOLT RECEPTACLE
⊕ = 15 OR 20 AMP SWITCH
⊕ = STD OR OPT BATH FAN
⊕ = FURNACE THERMOSTAT
⊕ = TELEPHONE JACK
⊕ = SMOKE DETECTOR
⊕ = ELECTRICAL MAIN PANEL BOX
⊕ = WALL MOUNTED LIGHT
⊕ = DATA JACK
⊕ = CABLE TV JACK
- ⊕ = CEILING MOUNTED LIGHT
⊕ = TEMP / RISE DETECTOR
⊕ = CO DETECTOR
⊕ = PULL STATION / FIRE
⊕ = HORN ASSY
⊕ = EXIT EMERGENCY LIGHTING
⊕ = 90° WALL HEIGHT
⊕ = SWITCH WIRING

WINDOW/DOOR SCHEDULE (COMPLETE W/LOCKS)

DESCRIPTION	LIGHT	VENT	ROUGH FRAMING SIZE
3-0 X 4-0 SH	X	X	X
38 x 80 ENTRY DOOR	25.53	8.04	
INTERIOR DOORS			

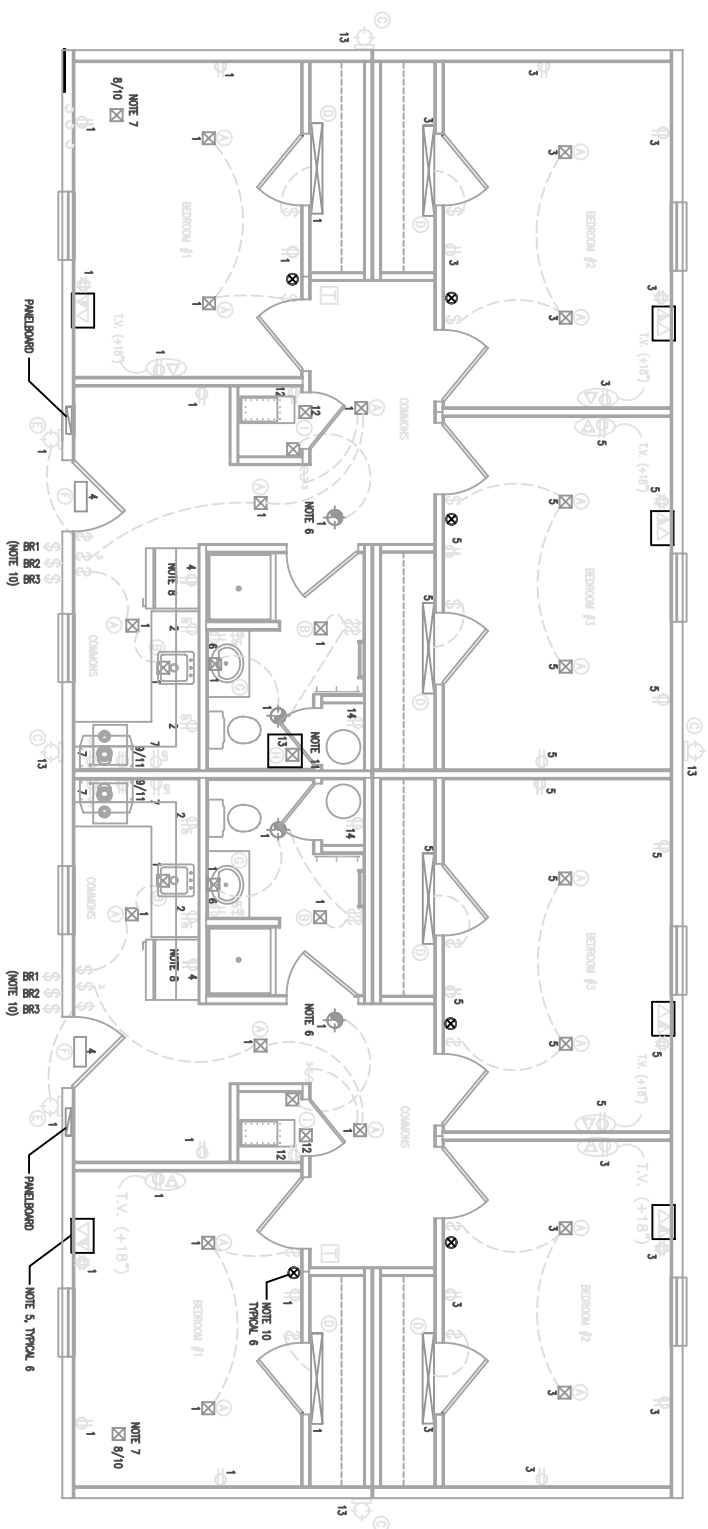
RICHARDSON BUNK UNITS – GENERAL

ROOF LIVE LOAD	40# ROOF LIVE LOAD	(50# SNOW LOAD)
ROOF DEAD LOAD	15# PER SQUARE FEET	
SEISMIC ZONE	SEISMIC ZONE D	
WIND SPEED	115 MPH , EXPOSURE C	
CLIMATIC ZONE	ASHRE, ANCHORAGE, ALASKA	
FLOOR LIVE LOADS	FLOOR LIVE LOADS = 100 PSF, 12 PSF DEAD	
NUMBER OF STORIES	1 STORY	
ALLOWABLE WIDTHS	14'-0" (EXCLUDING SHEATHINGS AND SIDINGS)	
OVERHANGS	0" MAXIMUM (EXCLUDING METAL ROOF OVERLAP)	
OCCUPANCY/GROUP	R-2	
CONSTRUCTION TYPE	TYPE V, WOOD-FRAMED, NON RATED	
UTILITIES	ELECTRIC, GAS, WATER AND DRAIN	
LOCATION	FORT RICHARDSON, ANCHORAGE, ALASKA	
INTERNATIONAL BUILDING CODE 2003 EDITION		
INTERNATIONAL MECHANICAL CODE		
NATIONAL ELECTRICAL CODE		
LIFE SAFETY CODE 101		
UFC 1-200-01		
UFC 3-600-01		
2003 FIRE PROTECTION		
MPA 13 R		
SQUARE FOOTAGE REQUIRED	1750 SF	
# OF MODELS	3 MODELS	
# OF BEDROOMS	3	
# OF BATHS	1	
FLOOR WIDTHS	14	
ROOF PITCH	2 1/2:12	
EAVE DETAIL	0" Max.	
WALL HEIGHT 1 LEVEL	8'-0"	
EXTERIOR ELEVATION	SEE ELEVATIONS	



SERVICE: 208Y/120 V, 3-Phase, 4-Wire										PROJECT NAME: Guerdon Housing				
LOCATION: Typical Per Unit										WORK ORDER NO.: 0056-05-01				
MOUNTING: Flush, NEMA-1										SPECIFICATION NO.: N/A				
REFERENCE DRAWING: 7B														
VOLTS (PH TO PH): 208														
VOLTS (PH TO G): 120														
DESCRIPTION	VA OR WATTS			BREAKER POLE	CKT A NO.	BUS CONN	CKT NO.	BREAKER POLE	VA OR WATTS			DESCRIPTION		
	A	B	C						A	B	C			
Kitchen, Bedroom 1	1879	—	—	***1	20	1	—	***2	1	20	1000	—	Kitchen, Small Appliances	
Bedroom 2	—	943	—	***1	20	3	—	***2	4	1	20	—	Refrigerator, Porch Light	
Bedroom 3	—	—	943	***1	20	5	—	***2	***6	1	20	—	Bathroom	
Kitchen, Small Appliances, Microwave	1480	—	—	***1	20	7	—	***2	***8	2	30	2500	—	Crawl Space Heater
Cook Top	—	1250	—	—	2	20	9	—	***9	—	30	—	2500	"
"	—	—	1250	—	2	20	11	—	***10	1	20	—	864	Furnace
Exterior Lights	140	—	—	1	20	13	—	***11	***12	1	20	40	—	Head Tape Outlet (estimated)
SPARE	—	—	—	1	20	15	—	***13	***14	1	20	—	—	SPARE
SPARE	—	—	—	1	20	16	—	***15	***16	1	20	—	—	SPACE
SPARE	—	—	—	1	20	17	—	***17	***18	1	20	—	—	SPACE
SPARE	—	—	—	1	20	19	—	***19	***20	1	20	—	—	SPACE
TOTAL (1)	3469	2193	2193											
TOTAL (1+2)	7009	6506	4074											
PHASE A CURRENT: 68.4										BUS RATING: 100 A				
PHASE B CURRENT: 64.2										MAIN LUGS: --				
PHASE C CURRENT: 94.0										MAIN BREAKER: 100 A				
TOTAL PANEL CURRENT: 68.4										FEEDER ENTRANCE: Bottom				
TOTAL PANEL KVA: 21.0										FEEDER SIZE: TBD				
										SHORT CXT RATING: TBD				
										PANEL SOURCE: TBD				
NOTES: 1. Loads estimated. Manufacturer to confirm.														
2. *** Denotes GFCI.														
3. *** Denotes AFCI.														
4. Service Entrance														

2 TYPICAL PANELBOARD SCHEDULE




1 ELECTRICAL FLOOR PLAN

LUMINAIRE SCHEDULE:


- (A) UHINQA WA-22-120-CB10. PROVIDE FLUSH-MOUNT JB. SHIP LUMINAIRE LOSS IN ORIGINAL PACKAGING.
- (B) UHINQA PLE-89. PROVIDE FLUSH-MOUNT JB. SHIP LUMINAIRE LOSS IN ORIGINAL PACKAGING.
- (C) UHINQA TWA-705-120-SF-LP1 W/RAT-PB1. PROVIDE FLUSH-MOUNT COBERED JB. SHIP LUMINAIRE LOSS IN ORIGINAL PACKAGING.
- (D) UHINQA CLK-15TBR-120-LP. PROVIDE FLUSH-MOUNT COBERED JB. SHIP LUMINAIRE LOSS IN ORIGINAL PACKAGING.
- (E) UHINQA WS-120-LP1.
- (F) UHINQA LHOM-S-W-1-R-150/277-H-N.
- (G) UHINQA 118ZS-BE-MH.
- (H) COOPER CORNER-JUNOS OVER-150 WITH GLOBE, GUARD AND JB. SHIP LUMINAIRE LOSS IN ORIGINAL PACKAGING.
- (I) LERION 9726-C PORCELAN FULL CHAIN LAMP HOLDER.

GENERAL NOTES:

- 1) PRINTS MUST BE REVIEWED FOR ACCURACY BEFORE STARTING THE JOB. ABSOLUTE ACCURACY OF THE DIMENSIONS AND SPECIFICATIONS MUST BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ANY ERRORS OF THE DESIGN PRIOR TO ITS BEGIN. MAKE RESPONSIBILITY OF THE CONTRACTOR TO CORROBORATE EXACT REQUIREMENTS COVERED BY ALL DISCUSS, 3D CONNOTIONS, CHECK ALL INFORMATION AND REPORT ANY DISCREPANCIES BEFORE SUBMITTING BID OR FURNISHING AND INSTALLING WORK.
- 2) ALL THERMOSTATS TO BE ELECTRONIC, SENSITIVELY ADJUSTABLE, PROGRAMMABLE WITH ONE HOUR OVERHEAT SHUT/DOWN, AND SENSITIVELY ADJUSTABLE PROGRAMMABLE MIN SUB-BASE.
- 3) PANELBOARD SCHEDULE SHOWN FOR ONE-HALF UNIT. TYPICAL FOR BOTH.
- 4) REFER TO PROJECT SPECIFICATIONS FOR FULL ELECTRICAL REQUIREMENTS.
- 5) DUAL BOX, SUB OUT 1" CONDUIT 6" BELOW FLOOR AND CAP.
- 6) INTERCONNECT TO FINANCE SPACE JIB FOR CONCURRENT OPERATION OF FINANCE AND FAN.
- 7) UNDER-FLOOR HEATER JUNCTION BOX. INTERCONNECT THROUGH CONDUIT SPACE TO PANELBOARD WITH 3/4" ENI.
- 8) INTERCONNECT THROUGH CONDUIT SPACE TO PANELBOARD WITH 3/4" ENI.
- 9) ALL INTERCONNECTIONS AND ROUTINGS MADE WITH MINIMUM 3/4" ENI.
- 10) EACH BENCHTOP SHALL HAVE AN INDIVIDUALLY ACTUATED AND CONTROLLED DOOR BELT. PROVIDE 120VAC POWER FOR CIRCUIT AND MOUNT SEPARATE 120-240V TRANSFORMER FOR EACH UNIT ABOVE COILS AT ENTRANCE.
- 11) UNDERLOOR SERVICE UNIFORM.
- 12) POWER WIRING SHALL BE MINIMUM #12AWG, LIGHTING WIRING SHALL BE MINIMUM #14AWG AND CONTROL WIRING SHALL BE MINIMUM #16AWG. CONDUIT SPACE HEATER WIRING SHALL BE #10AWG.

 US ARMY CORPS OF ENGINEERS ALASKA DISTRICT		CONTRACT NO. _____ W911NB-05-C-0009		CONTRACTOR ALTUMNA MGMT. CO., LLC		CITY ANCHORAGE		STATE ALASKA		Date: _____	
RECOMMENDED BY: _____ RECOMMENDED DATE: _____		APPROVED BY: _____ APPROVED DATE: _____		RESIDENT ENGINEER _____		PROJECT ENGINEER _____		_____		_____	

[illegible]

 <p>COMAR Manufacturing Corporation Ltd. 9502 3509 K. Ave. K02 2Z2, K00</p>	<p>3201 C Street Suite 200 9502 3509 K. Ave. K02 2Z2, K00</p>
<p>3201, COMAR BUILDING SYSTEMS, INC. 22 Eighth Avenue</p>	<p>3201 C Street Suite 200 9502 3509 K. Ave. K02 2Z2, K00</p>

FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64_BARRACKS
 CODE_PLAN_1
 AS_BUILT_DRAWINGS

Reference
number:
7B

Sheet 13 of 50



GENERAL NOTES:

- 1) PRINTS MUST BE REVIEWED FOR ACCURACY BEFORE STARTING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION OF EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. CHECK ALL INFORMATION AND REPORT ANY DISCREPANCIES BEFORE SUBMITTING BID OR PERFORMING AND INSTALLING WORK.
- 2) REFER TO PROJECT SPECIFICATIONS FOR FULL ELECTRICAL REQUIREMENTS.
- 3) INTERCONNECT FIRE DETECTION DEVICES THROUGH CEILING SPACE WITH TYPE ENT CONDUIT TO INDICATED CEILING ACCESS HATCHES. INCLUDE PULL TIE AND CAP OPEN ENDS.

CONTRACT NO. W911KB-05-05-C-0009	
CONTRACTOR ALTRIA M&L CON., LLC	
CITY	STATE ALASKA
APPROVED: _____	
DATE: _____	

Sym.	Action	Description	Date	Appvd

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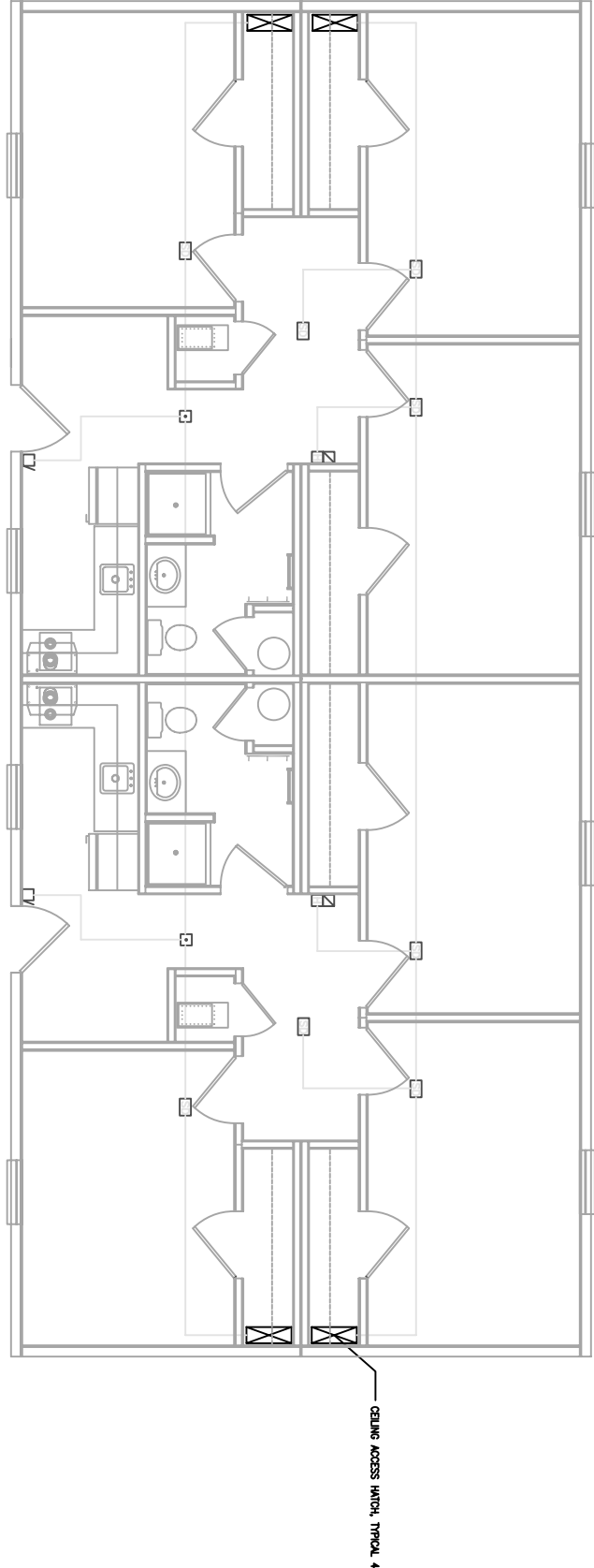
3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

Manufacturing Contractors LLC

Drawn: COMARK	Checked: COMARK	Date: 05-19-08
Proj: 05-05-05-0009	Section: 05-05-05-0009	File: FTR2457.00
Proj Scale: 1/8"=1'-0"	Section Scale: 1/8"=1'-0"	File Scale: 1/8"=1'-0"
Drawing # 05-05-05-0009		

FOR AIRBORNE COMBAT BRIGADE
FTR245 INTERIM FACILITIES
64 BARACKS
CODE PLAN 1
AS-BUILT DRAWINGS

Reference number: 7C
Sheet 14 of 50



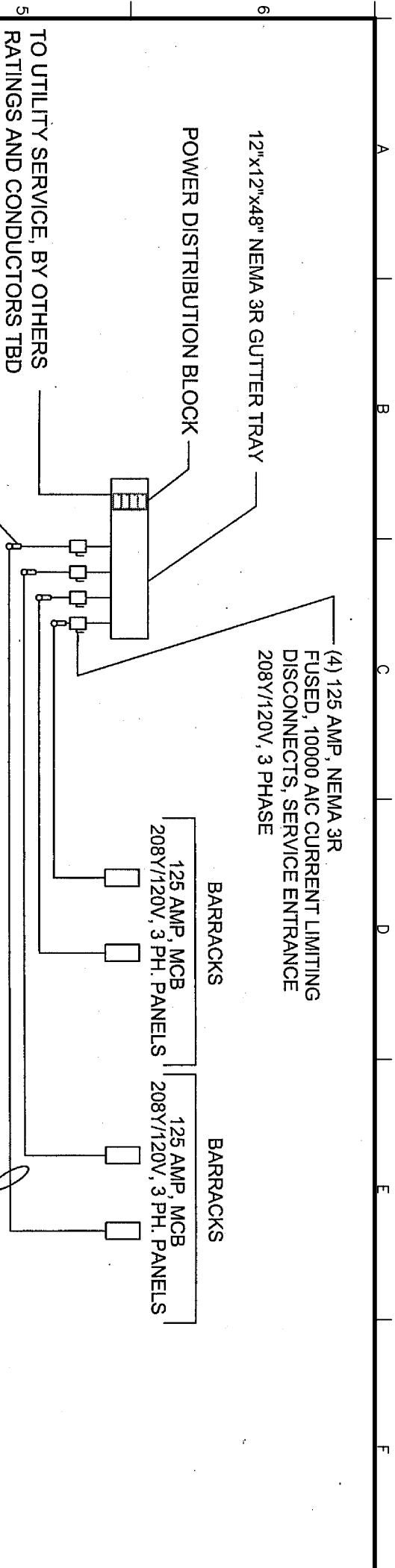
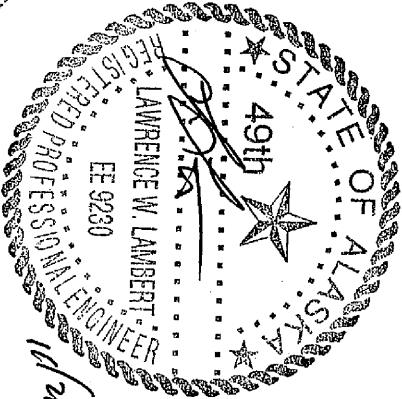
1 FIRE DETECTION SYSTEM PLAN
SCALE 1/4" = 1'-0"

LEGEND

- ☐ SMOKE DETECTOR, NONADDRESSABLE W/ SQUIBBER BASE, MONACO 723-318-01, PROVIDE FLUSH-MOUNT BOX AT CEILING, SHIP DEVICE LOOSE IN ORIGINAL PACKAGING. DEVICE IS DUAL FUNCTION, INTERCONNECT AS SMOKE DETECTOR ONLY.
- ☐ TEMP/PIRATE OF FIRE DETECTOR, NONADDRESSABLE W/ BASE, MONACO 723-318-01, PROVIDE FLUSH-MOUNT BOX AT CEILING, SHIP DEVICE LOOSE IN ORIGINAL PACKAGING. DEVICE IS DUAL FUNCTION, INTERCONNECT AS HEAT DETECTOR ONLY.
- ☒ CO DETECTOR, MONACO 725-311-00, PROVIDE FLUSH-MOUNT BOX 84" AFF, SHIP DEVICE LOOSE IN ORIGINAL PACKAGING.
- ☒ PULL STATION / FIRE, MONACO 708-024-00, PROVIDE FLUSH-MOUNT BOX 48" AFF, SHIP DEVICE LOOSE IN ORIGINAL PACKAGING.

GENERAL NOTES:

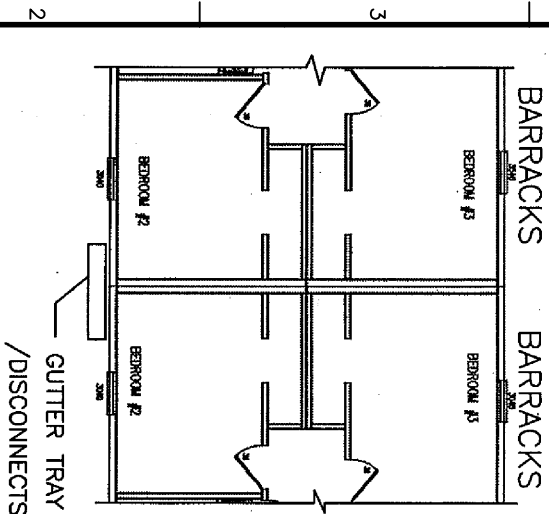
- 1) SOME ELEMENTS ARE AS REPORTED BY FIELD FORCES AND HAVE NOT BEEN VERIFIED.
- 2) 12 CATEGORY 6 COMMUNICATIONS CABLES AND 12 CATEGORY 6 DATA CABLES. FINAL CABLE SELECTIONS BY SITE.
- 3) 10" X 12", MOUNTED TO SUBPANEL WITH INSULATED STANDOFFS.
- 4) NEMA 12 ENCLOSURE, CONTINUOUS HINGE, HORIZONTAL CABLE LOG NUMBER A-161KCH W/A-18P14 SUBPANEL OR APPROVED EQUAL MOUNT TO CRAWLSPACE WALL WITH MINIMUM 1/2" STANDOFFS.



- NOTES:
1. ALL EXTERIOR CONDUIT TO BE RIGID GALVANIZED STEEL.
 2. CRAWL SPACE CONDUIT TO BE SCHEDULE 40 PVC.
- PROVIDE ADEQUATE MECHANICAL PROTECTION.

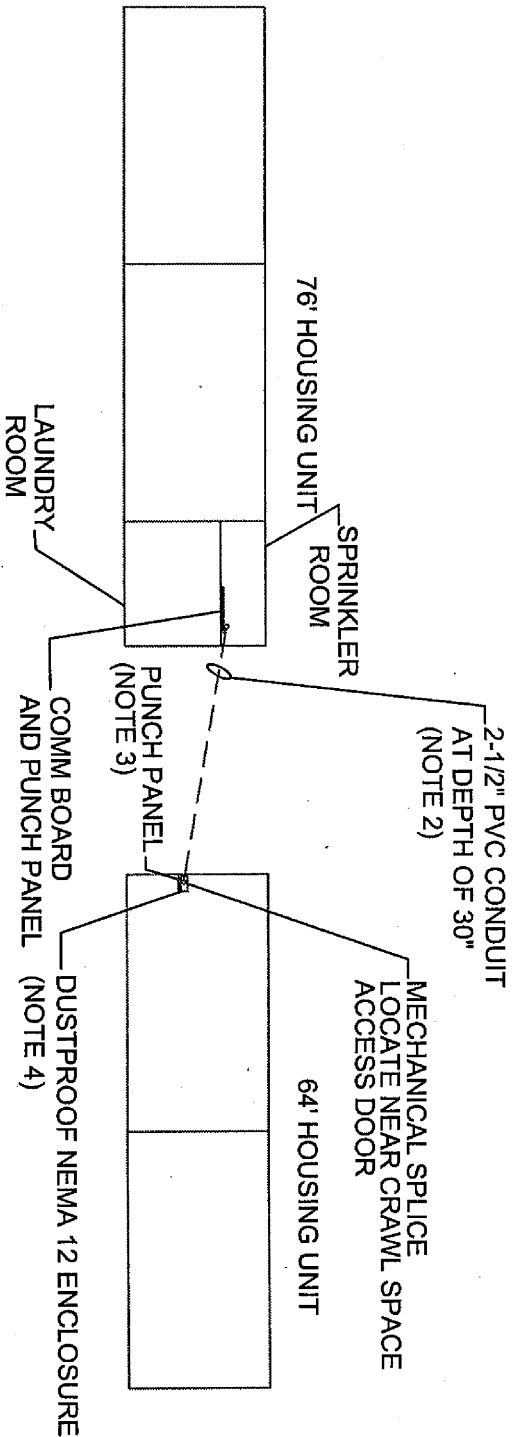
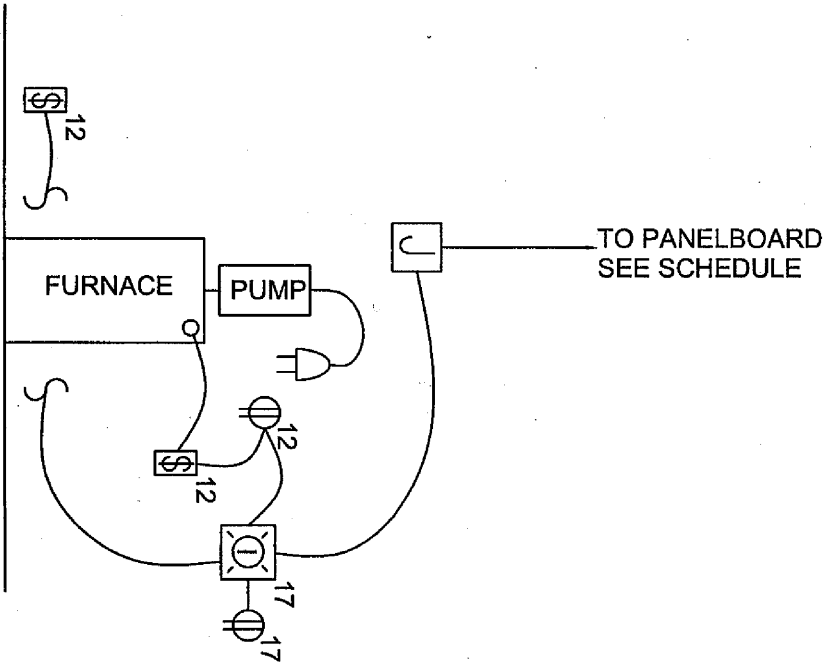
1 ELECTRICAL RISER DIAGRAM

SCALE: NTS



ELECTRICAL SERVICE LOCATION

SCALE: NTS



3 TYPICAL DETAIL, CRAWLSPACE FURNACE

SCALE: NTS

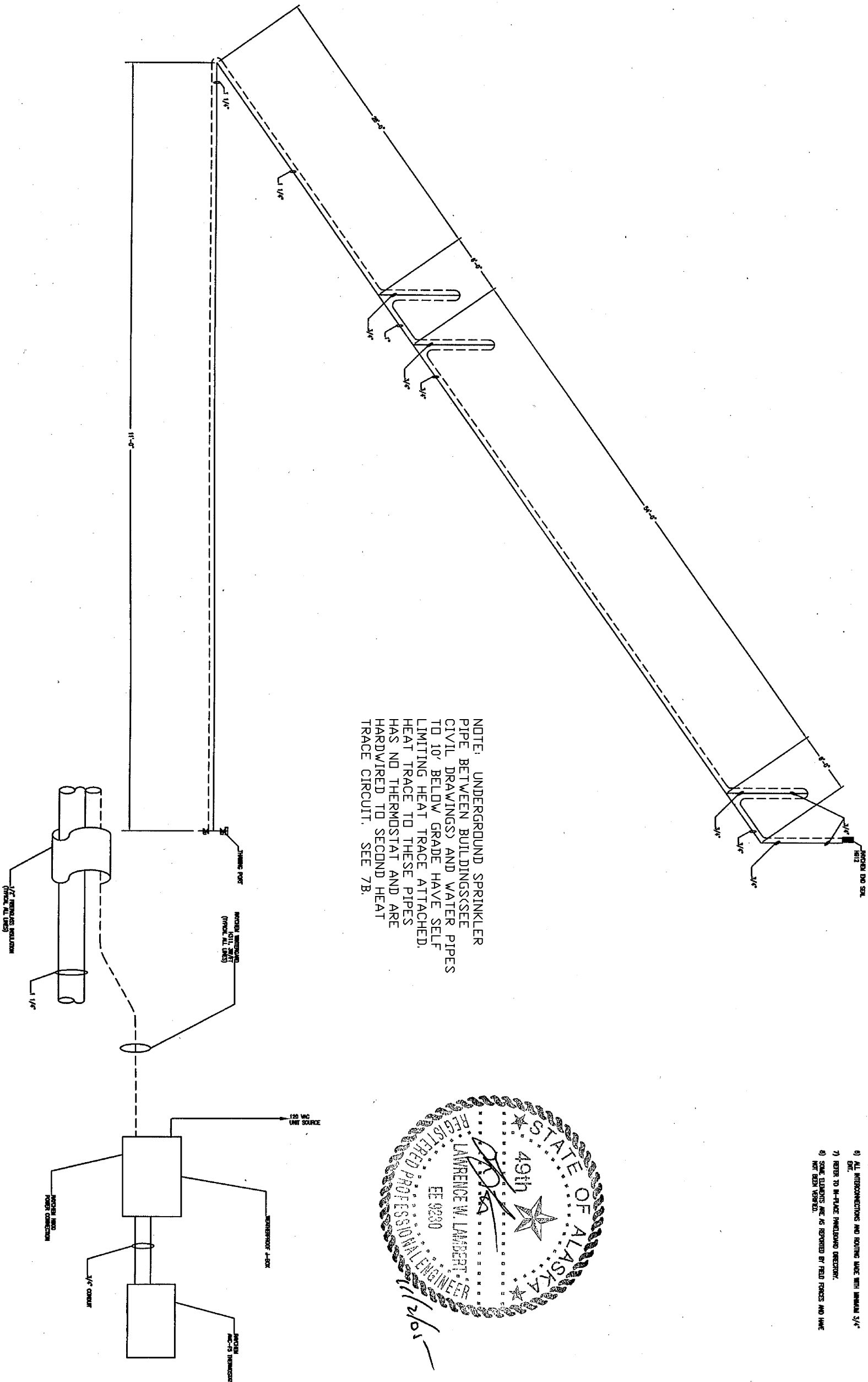
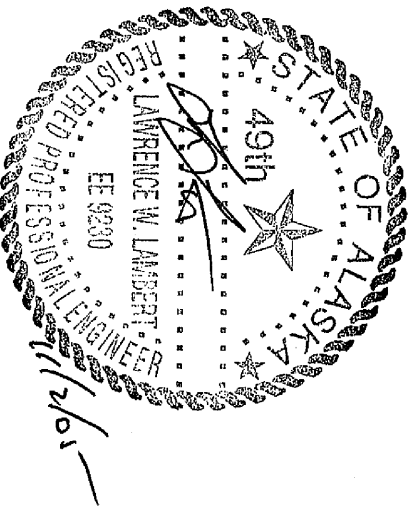
4 INTERBUILDING COMMUNICATIONS PLAN

SCALE: NTS

GENERAL NOTES:

- 1) REFER TO PANELBOARD SCHEDULE, DRAWING E-701.
- 2) REFER TO DRAWING E-701 FOR CRAWL SPACE FURNACE INTERCONNECTION.
- 3) REFER TO PROJECT SPECIFICATIONS FOR ALL ELECTRICAL REQUIREMENTS.
- 4) REFER TO DRAWING E-701 FOR RECEPTACLE/ANTENNA BOX REQUIREMENTS. INTERCONNECT ANTENNA BOXES TO RESPECTIVE ABOVE-FLOOR RECEPTACLE.
- 5) INTERCONNECT THROUGH CRAWL SPACE AND TO RECEPTACLES WITH 3/4" EMT.
- 6) ALL INTERCONNECTIONS AND ROUTING MADE WITH MINIMUM 3/4" EMT.
- 7) REFER TO IN-PLACE PANELBOARD CONNECTION.
- 8) SOME ELEMENTS ARE AS REQUIRED BY FIELD FORCES AND HAVE NOT BEEN VERIFIED.

NOTE: UNDERGROUND SPRINKLER PIPE BETWEEN BUILDINGS(SEE CIVIL DRAWINGS) AND WATER PIPES TO 10' BELOW GRADE HAVE SELF LIMITING HEAT TRACE ATTACHED. HEAT TRACE TO THESE PIPES HAS NO THERMOSTAT AND ARE HARDWIRED TO SECOND HEAT TRACE CIRCUIT. SEE 7B.



1 CRAWL SPACE HEAT TRACING

2 HEAT TRACING CONNECTION DETAIL



CONTRACT NO.	W911KB-05-C-0009
CONTRACTOR	ALUTIQ MAN. CON., LLC
CITY	ANCHORAGE
STATE	ALASKA
APPROVED:	
DATE:	

Sym.	Action	Description	Date	Appvd.

Alutiq
Manufacturing Contractors LLC
2201 C Street
Anchorage, AK 99503
907.222.9500
www.alutiq.com

DATE	11-10-05
DESIGNED	COMARK
DRAWN	LMK
REVIEWED	COMARK
PROJECT	FTR2457.05
SHEET	11
DATE	11-10-05
PROJECT	FTR2457.05
SHEET	11
DATE	11-10-05

FOR AIRBORNE COMBAT BRIGADE
64 BARRACKS
AS-BUILT DRAWINGS

Reference number:
7E
Sheet 16 of 30



US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR	ALUTIA INC., LLC
CITY	ANCHORAGE
STATE	ALASKA
APPROVED:	RESIDENT ENGINEER
DATE:	

GENERAL NOTES:

- 1) BELOW FLOOR DOMESTIC WATER PIPE SHALL BE CPVC, CPVC ABOVE CRAWLSPACE, RISERS AND SHOT OFF WALKS SHALL BE CROMAL.
- 2) BELOW FLOOR WATER LINES SHALL BE INSULATED.

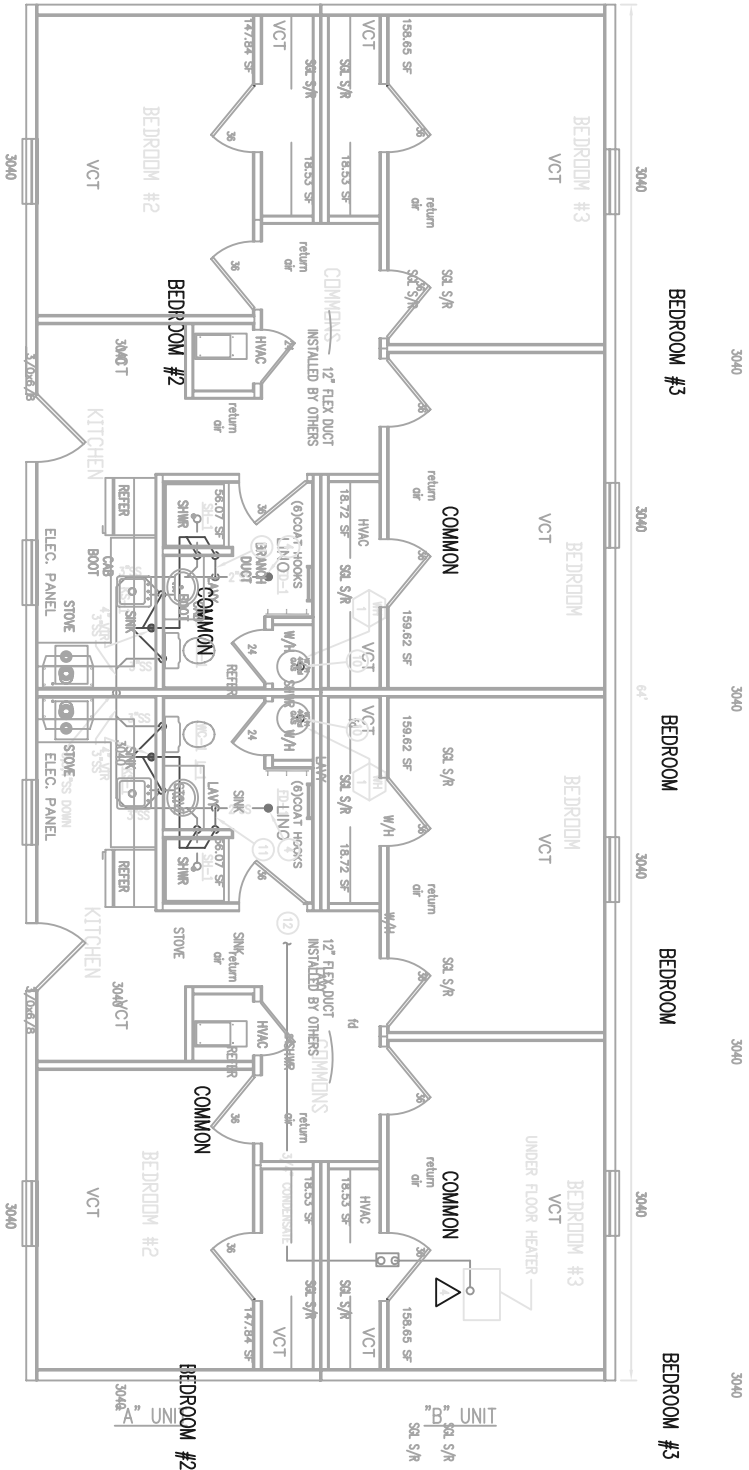
IECC PLUMBING NOTES:

1) DOMESTIC WATER TO BE INSULATED AS NOTED.

DOMESTIC HOT AND COLD WATER--
1-1/2" AND SMALLER--1/2" THICK
2" THRU 4"-1" THICK

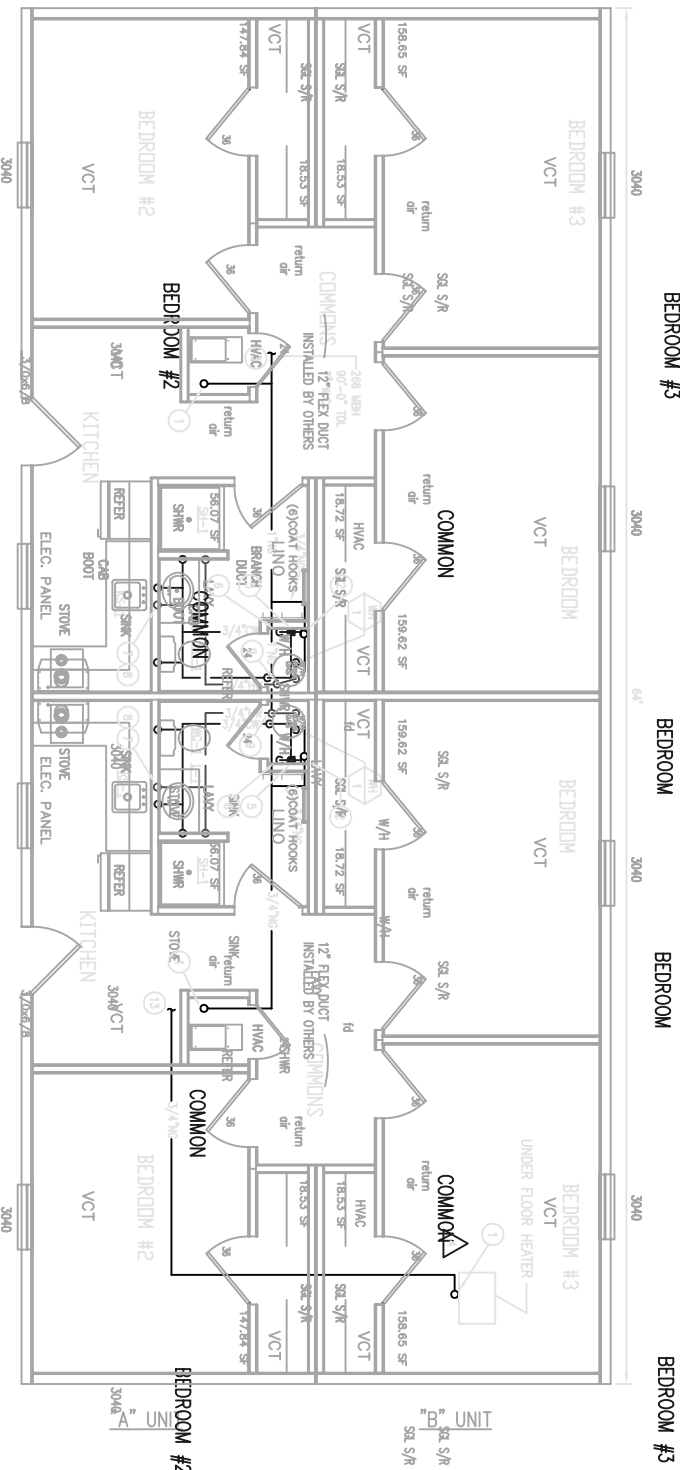
KEY NOTES:

- 1) GAS RISE TO RUMPAGE, PROVIDE SHOT OFF WALK. RE: B-4
- 2) GAS RISE TO WATER HEATER. RE: B-4
- 3) CONNECT TO SITE GAS IN FIELD BY COMMON.
- 4) PROVIDE TRAP PRIMER FOR FLOOR DRAIN.
- 5) SHOT OFF WALK TO BE LOCATED ON WALK SIDE OF BUILDING IN CRAWLSPACE. PROVIDE 2" BELOW FINISHED FLOOR TO RUMPAGE. HEAT TRACE AND INSULATE WATER PIPE IN CRAWLSPACE TO RUMPAGE.
- 6) PIPE DROP BACK TO BELOW FLOOR.
- 7) HW RISE TO MS-1
- 8) HW RISE TO L-1
- 9) HW DROP TO BELOW FINISHED FLOOR.
- 10) PROVIDE WITH WETS CONDENSATION AIR DUCT KIT TO WATER HEATER. ROUTE TO ROOF AND TERMINATE WITH CODE / WETS APPROVED VENT CAP.
- 11) HORIZONTAL VENT BELOW FINISHED FLOOR.
- 12) ROUTE CONDENSATE LINE TO NEAREST SANITARY SEWER (FROM TD-1) CONDENSATE PIPING OF CONDENSATE PUMP.
- 13) ROUTE GAS PIPING AS SHOWN AND CONNECT TO MAIN GAS FEED DRAWING B-1.



1 WASTE AND VENT PLUMBING PLAN

SCALE: 1/4" = 1'-0"

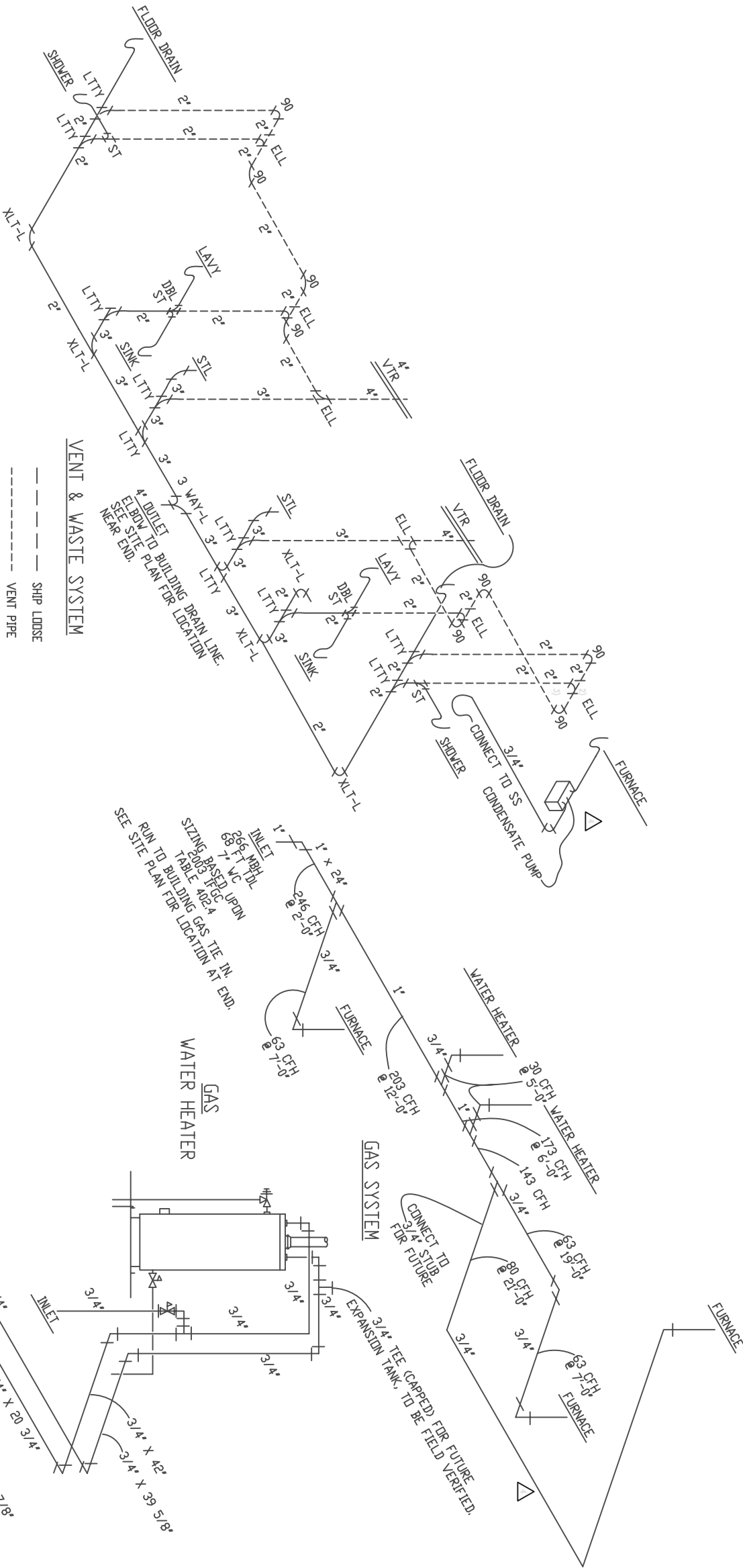


2 WATER AND GAS PLUMBING PLAN

SCALE: 1/4" = 1'-0"

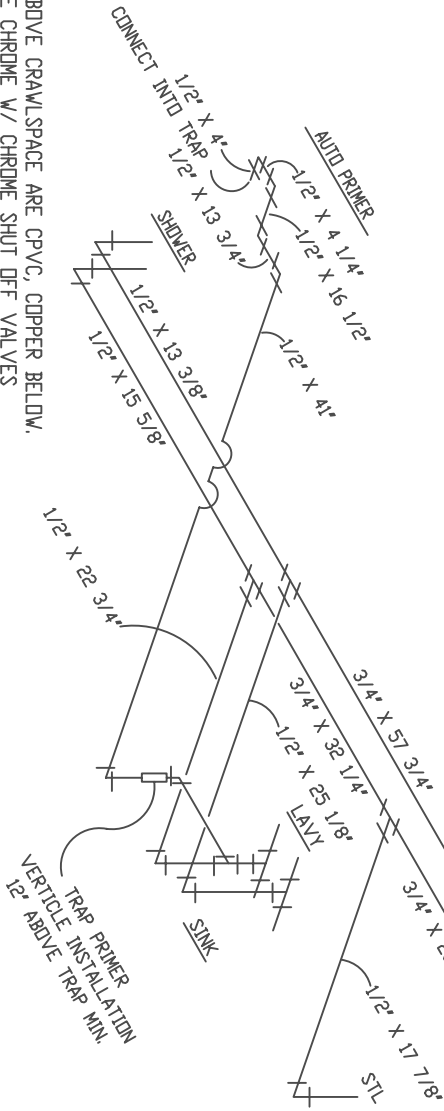
SEE 64' BUILDING MODULAR FOR CRAWLSPACE HEATER

- GENERAL NOTES:**
- 1) BELOW FLOOR DOMESTIC WATER PIPES SHALL BE COPPER. CPVC ABOVE CRAWLSPACE, RISERS AND SHUT OFF VALVES SHALL BE CHROME.
 - 2) BELOW FLOOR WATER LINES SHALL BE INSULATED AND HEAT TRACED.
 - 3) GAS PIPING SHALL BE BLACK IRON.
 - 4) DRAIN AND VENT PIPING SHALL BE ABS/PVC, REFER TO PAGE 88 FOR PIPE LENGTHS.
 - 5) ALL SYSTEMS MIRROR FOR FRONT HALF.



ALL WATER LINES ABOVE CRAWLSPACE ARE CPVC, COPPER BELOW.
ALL RISERS ARE CHROME W/ CHROME SHUT OFF VALVES
ALL DOMESTIC WATER LINES BELOW FLOOR LEVEL ARE INSULATED AND HEAT TRACED.
ALL SYSTEMS MIRROR FOR FRONT HALF

DOMESTIC WATER SYSTEM



US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	W911KB-05-C-0009
CONTRACTOR	ALTITUDE MAN. CON. LLC
CITY	ANCHORAGE
STATE	ALASKA
APPROVED:	
DATE:	
DESIGNED BY:	
DATE:	

SYN.	ACTION	DESCRIPTION	DATE	APPROVED

Altitude
Manufacturing Contractors LLC
3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

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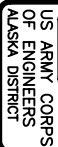
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Reviewed:	COMARK
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Sheet:	NTS
Section:	
Project:	FT245.0C
Drawing:	AS-BUILT-DRAWINGS

W911KB-05-0009

FORT RICHARDSON, ALASKA
FTR245, INTERIM FACILITIES
FOR AIRBORNE COMBAT BRIGADE
64, BARRACKS
CODE PLAN 1
AS-BUILT-DRAWINGS

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FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64_BARACKS
 CODE_PLAN_1
 AS-BUILT_DRAWINGS

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 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64_BARRACKS
 CODE_PLAN_1
 AS-BUILT_DRAWINGS

Sheet 21 of 50

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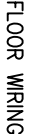
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BUILDING SYSTEMS, INC.
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Pict Scale	1/8" = 1'-0"
Eng Scale	1:1
Designation	COMARK
Drawn	LHM
Reviewed	COMARK
Checked	COMARK
Submitted	COMARK
Design	COMARK
Branch	COMARK

Reference
number:
10B

Sheet 22 of 50

ALL UNIT
DIMENSIONS
ORIGINATE
FROM THIS
POINT





CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTHIO MAW. CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended: _____	
Approved: _____	
Date: _____	

Qty.	Action	Description	Date	Appvd

Alutiq
3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

COMARK
Manufacturing Contractors LLC
807.222.9500

Designed: COMARK

Drawn: LHM

Reviewed: COMARK

Submitted: COMARK

Checked: COMARK

Drawn: LHM

Date: 3-10-06	Proj. Scale: 1:1	Rev. Scale: 1/8"=1'-0"	Rev. Scale: 1/8"=1'-0"
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Submitted: COMARK			
Checked: COMARK			
Drawn: LHM			
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FOR AIRBORNE COMBAT BRIGADE

64' BARACKS

CODE PLAN 1

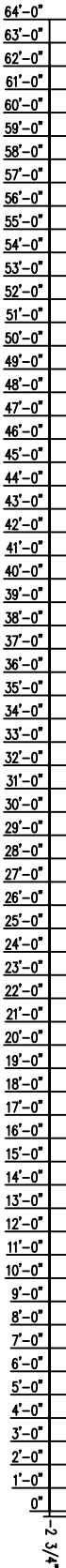
AS-BUILT DRAWINGS

FOR AIRBORNE COMBAT BRIGADE

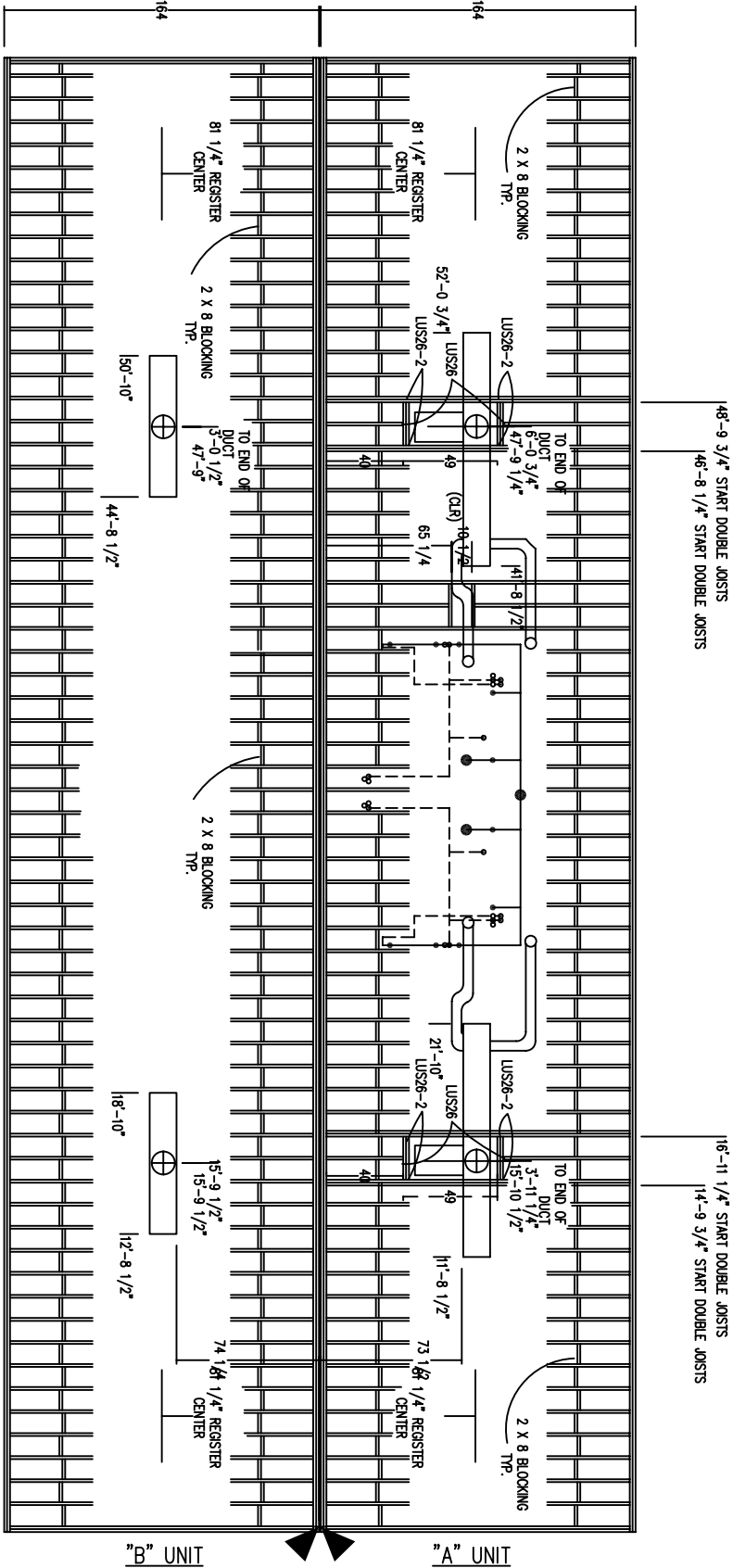
64' BARACKS

CODE PLAN 1

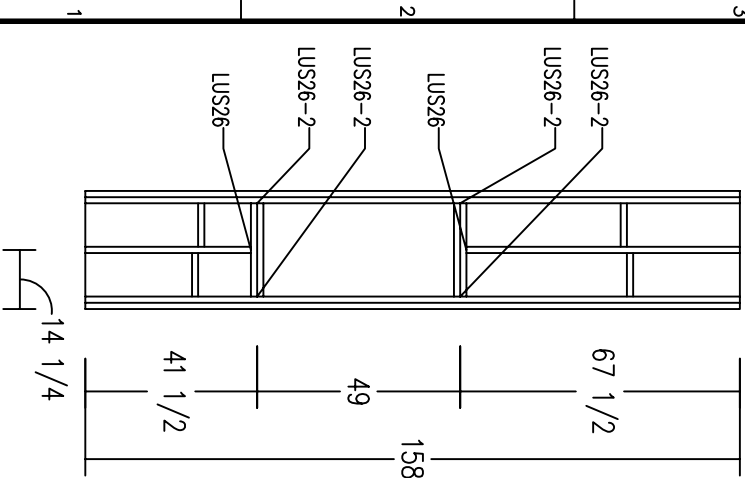
AS-BUILT DRAWINGS



2x8 FLOOR SYSTEM,SPF #2 OR BETTER AT 12" ON CENTER



1/28 1/2-1



FLOOR FRAMING DETAIL

- NOTES:
1. FLOOR FRAMING IS SHOWN INVERTED (UPSIDE DOWN, AS BUILT IN JIG).
 2. DOUBLE RIM JOISTS SPLICES TO BE OFFSET 48" MIN.

- EASTING SCHEDULE:
1. RIM JOIST TO FLOOR JOIST: (4) .131 x 3" NAILS OR 7/16" x 2 1/2" x 15ga. STAPLES.
 2. OUTSIDE RIM TO INSIDE RIM: .131 x 3" NAILS, 2 ROWS, 24" o.c. STAGGERED.
 3. RIM TO SILL PLATE: .131 x 3" NAILS AT 5" o.c.
 4. FLOOR DECKING TO FRAMING: 10d NAILS AT 6" o.c. EDGES AND 12" o.c. FIELD.
 5. DOUBLE JOISTS: .131 x 3" NAILS, 2 ROWS, 24" o.c. STAGGERED.
 6. I-BEAM TO JOIST: 5/16" x 3" LAG TO CHASSIS BEAMS @ 16" o.c.
 7. OUTRIGGER TO JOIST: 5/16" x 3" LAG TO OUTRIGGER AT FREE END.



CONTRACT NO.	W111B-05-C-0009
CONTRACTOR	ALUTIA MAR. CON. LLC
CITY	ANCHORAGE
STATE	ALASKA
Recommended:	Approved:
PRIME CONTRACTOR	RESIDENT ENGINEER
Date:	

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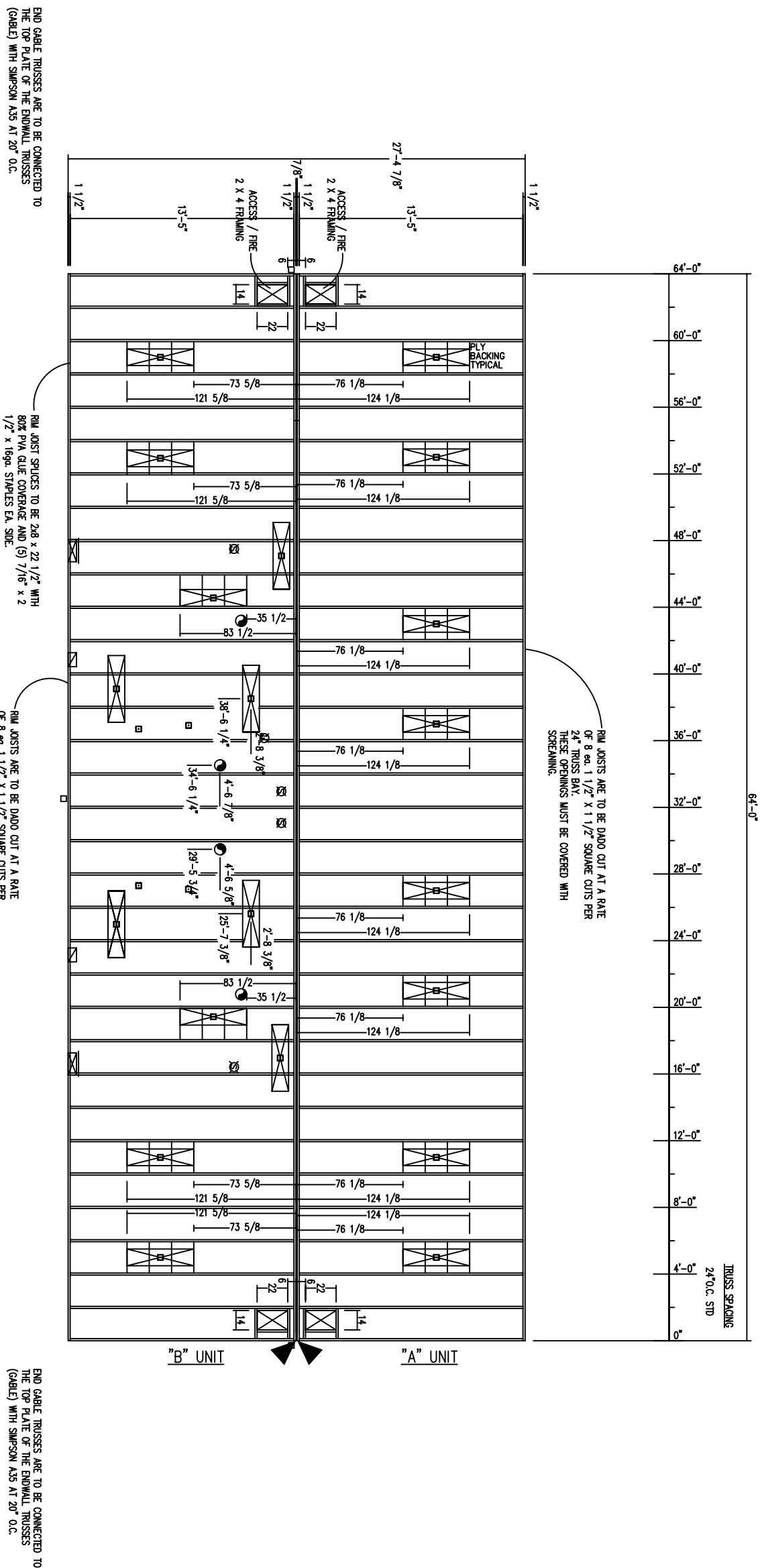
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Manufacturing Contractors LLC
Alutiq

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Description		Description	
Revision		Revision	
Date		Date	
By		By	
Check		Check	
Appr.		Appr.	
Scale		Scale	
Notes		Notes	

FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64_BARRACKS
 CODE_PLAN_1
 AS-BUILT_DRAWINGS

Reference
number:
12A

Sheet 24 of 50



- NOTES:
 1. SNOW/LOADS ARE 40K, NO RIDGE BEAM USED.
 2. ROOF SHEATHING IS 1/2" CDX PLYWOOD INDEX RATED 32/16.
 3. OFFSET DECKING SPANS 3/2" MIN.
- EASTERNING SCHEDULE:
1. R/W ADJUST TO TRUSS: (7) 131 x 3" NAILS OR SEE PAGE 4A
 2. TRUSS TO TOP PLATE: TRUSSES AT 24" o.c.; SEE PAGE 4A
 3. STEEL ROOFING TO SHEATHING: PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
 4. SHEATHING TO TRUSS: SEE PAGE 2 NOTE: TRIMBLE 1.
 5. GYPSUM CEILING TO TRUSS: INSTANTANE E-250 ADHESIVE FOAM INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
 6. MARRIAGE LINE RAILS TO RAFTER: (2) 16d, 131 x 3.5" NAILS WITH MIN. 1 1/2" PENETRATION AT EVERY INTERSECTION.



CONTRACT NO. W111KB-05-C-0009		CONTRACTOR ALLUMIA MAN. CO., LLC	
CITY ANCHORAGE		STATE ALASKA	
Recommended:		Approved:	
PRIME CONTRACTOR		RESIDENT ENGINEER	

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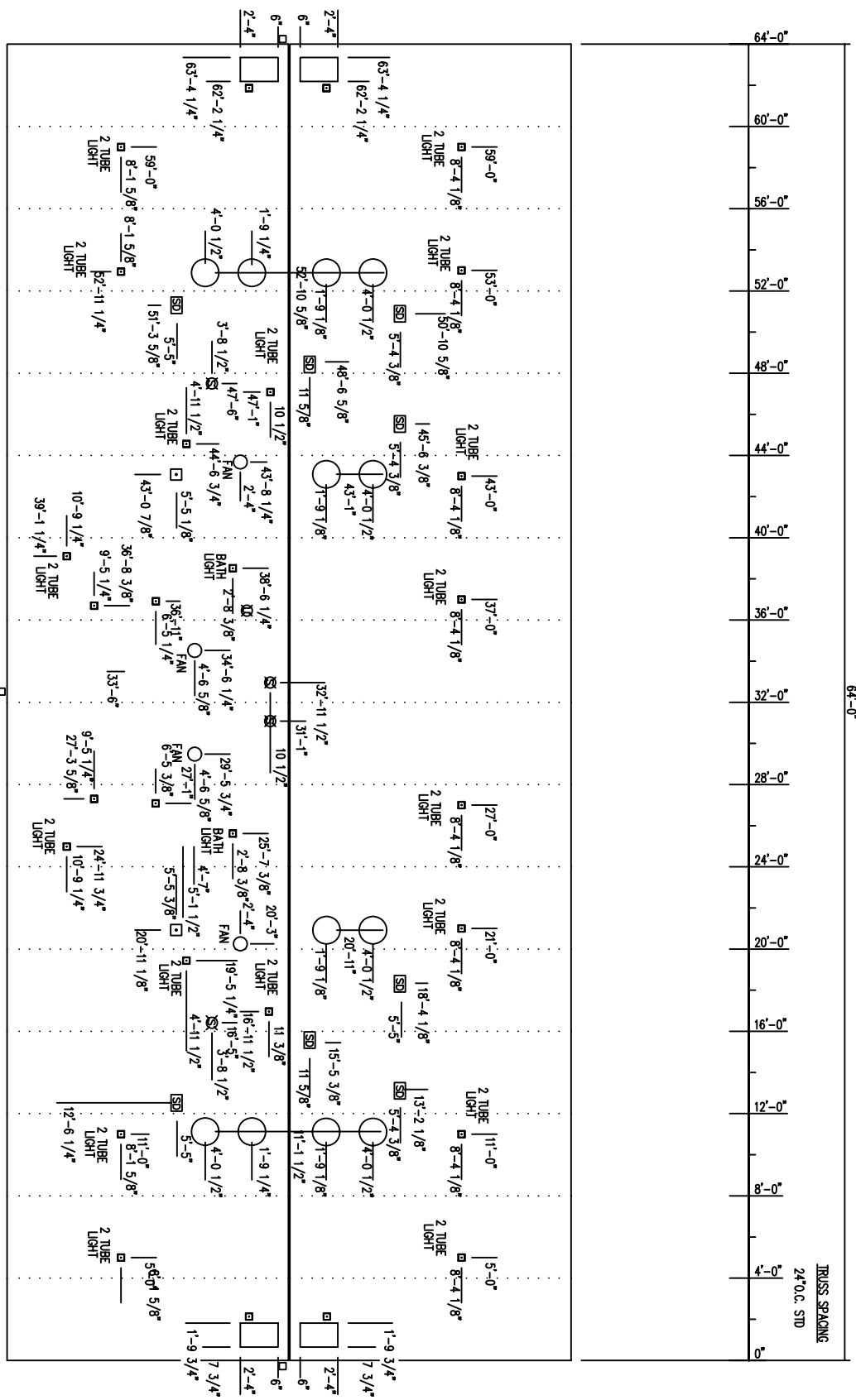
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Dyned:	COMARK
Revised:	
Reviewed:	COMARK
Submittal:	COMARK
Check:	
Section:	
File:	FTR24512.OB
Drawings #s:	BUT-721-11-07

FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 64'_BARRACKS
 CODE_PLAN_1
 AS-BUILT_DRAWINGS

Reference
number:
12B

Sheet 25 of 50

CEILING CUT OUTS





CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALUTIA MAN. CON, LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended:	Approved:
PRIME CONTRACTOR	DESIGNER ENGINEER
Date:	

Sym.	Action	Description	Date	Appvd

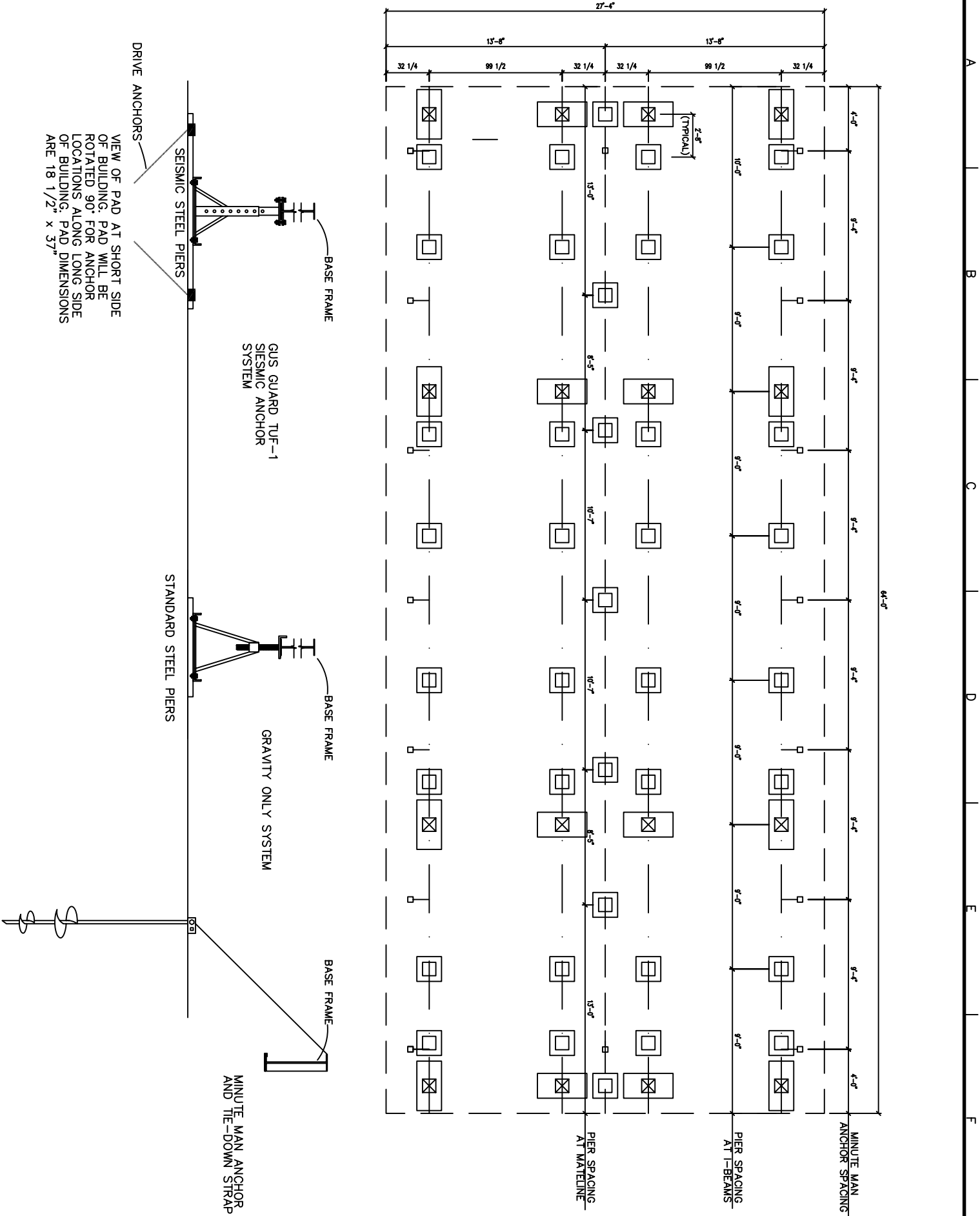
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Designed: COMARK
Drawn: LHM
Reviewed: COMARK
Submittal: COMARK
Drawing File: 64-B-17-23-1-11-07

Date: 3-10-06
Plot Scale: 1:1
Title: FTR24513.0
Drawing File: 64-B-17-23-1-11-07

W911KB-05-0009

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
64_BARRACKS
CODE_PLAN_1
AS-BUILT_DRAWINGS



LATERAL FORCES DUE TO WIND & SEISMIC LOADING SHALL BE RESISTED BY GUS GUARD TUF-1 ASSEMBLIES AS MANUFACTURED BY ABESCO-GUS GUARD COMPANY OF SACRAMENTO, CA (800-382-8831), FULLY COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS & REQUIREMENTS FOR INSTALLATION AND DESIGN. THE TUF-1 ANCHOR STAND SHALL BE SUPPORTED USING AN ABESCO ABS PAD #503 (WITH STEEL FRAME AND ANCHOR RODS) OR WITH 16" x 32" x 12" POURED IN PLACE CONCRETE FOUNDATIONS (WITH 1/2" DIAMETER ANCHOR BOLTS OR EXPANSION ANCHORS).

ANCHOR STANDS FOR GRAVITY ONLY LOADS SHALL BE CAPABLE OF SAFELY SUPPORTING A MINIMUM OF 5000 LBS.

THE FOUNDATION IS DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. BEARING SUBGRADE CAPACITY SHALL BE VERIFIED BEFORE SETTING FOUNDATION SYSTEM.

- NOTES:
- STAND SPACING MAY VARY DUE TO AXLE HANGERS OR OTHER STRUCTURAL OBSTRUCTIONS.
 - BASE PADS TO BE CONSTRUCTED OF ABS.
 - STANDS MAY BE ADDED UNDER SIDES OF DOORS AS NECESSARY FOR PROPER DOOR ADJUSTMENT.
 - ASSUMED SOIL BEARING PRESSURE IS 2500 PSF.
 - ALL PIERS TO BE MECHANICALLY ATTACHED TO FRAME.

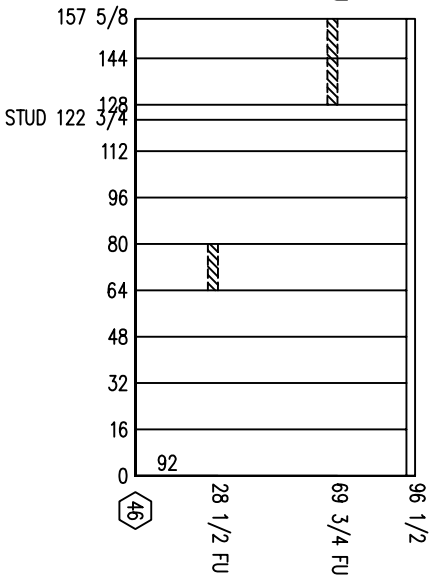
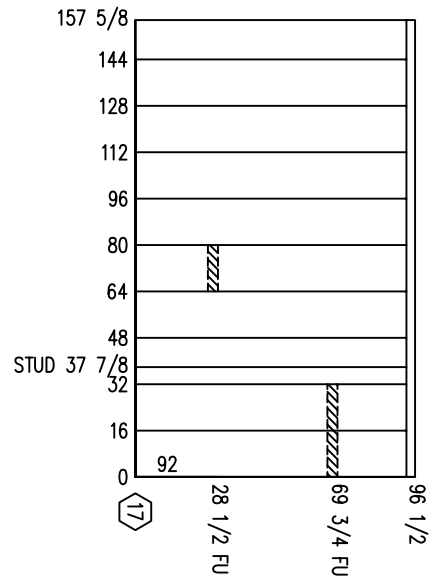
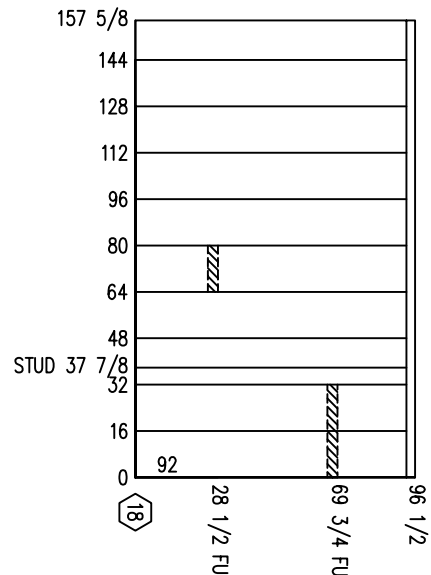
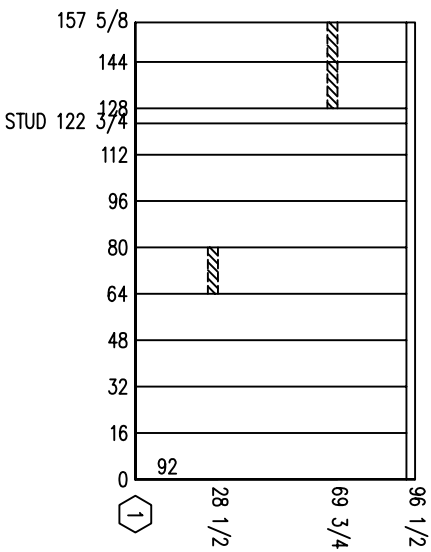
- ☒ LOCATION OF SEISMIC STEEL PIER & 18 1/2"x37" ABS PAD
- ☐ LOCATION OF STEEL PIER ON 18 1/2" x 18 1/2" ABS PAD
- ☐ LOCATION OF TIE-DOWN ANCHORS WITH 2000 LBS ALLOWABLE UPLIFT CAPACITY

SHEATH WITH 6 MIL. POLY VAPOR BARRIER
THEN 1/4" GYPSUM
THEN 5/8" VINYL COVERED TYPE X GYPSUM

SHEATH WITH 6 MIL. POLY VAPOR BARRIER
THEN 1/4" GYPSUM
THEN 5/8" VINYL COVERED TYPE X GYPSUM

SHEATH WITH 6 MIL. POLY VAPOR BARRIER
THEN 1/4" GYPSUM
THEN 5/8" VINYL COVERED TYPE X GYPSUM

SHEATH WITH 6 MIL. POLY VAPOR BARRIER
THEN 1/4" GYPSUM
THEN 5/8" VINYL COVERED TYPE X GYPSUM



MARRIAGE WALL OPENING BEAM DETAIL
(4) BEAMS REQUIRED PER DOUBLEWIDE UNIT

146 1/2

9 1/2

(2) 1 3/4" X 9 1/2" LVL BEAMS

5/8" VCX GYPSUM FILLER



PRIME CONTRACTOR	
Recommended:	ANCHORAGE
Approved:	STATE ALASKA
CITY	
CONTRACTOR ALUTIA MNL. CON. LLC	
CONTRACT NO. W911KB-05-C-0009	
Date:	

Sym.	Action	Description	Date	Apprvd

COMARK	
Manufacturing Contractors LLC	
3201 C Street	
Bldg. #20	
Anchorage, AK	
99503	
907.222.9500	
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COMARK	
Submitted COMARK	
Drawing #:	
W911KB-05-0009	
Revised:	
FTR24515.08	
Rev:	
1/8"=1'-0"	
Plot Scale:	
1:1	
Date:	
3-10-06	
Drawn:	
LHM	
Checked:	
COMARK	

FORT_RICHARDSON_ALASKA	
FTR245_INTERIM_FACILITIES	
FOR_AIRBORNE_COMBAT_BRIGADE	
64_BARACKS	
CODE_PLAN_1	
AS-BUILT_DRAWINGS	

Reference number:
15B
Sheet 28 of 50

PARTITIONS: EXTERIOR



CONTRACT NO.	W911KB-05-0-0005
CONTRACTOR	ALUTIQ BAY, CON., LLC
CITY	ANCHORAGE
STATE	ALASKA
APPROVED	RESIDENT ENGINEER
DATE	

Qty.	Action	Description	Date	Appr.

3501 G Street
Suite 200
Anchorage, AK 99503
907.222.9000

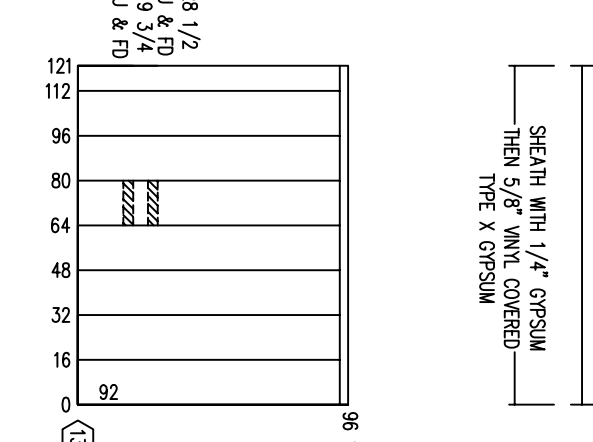
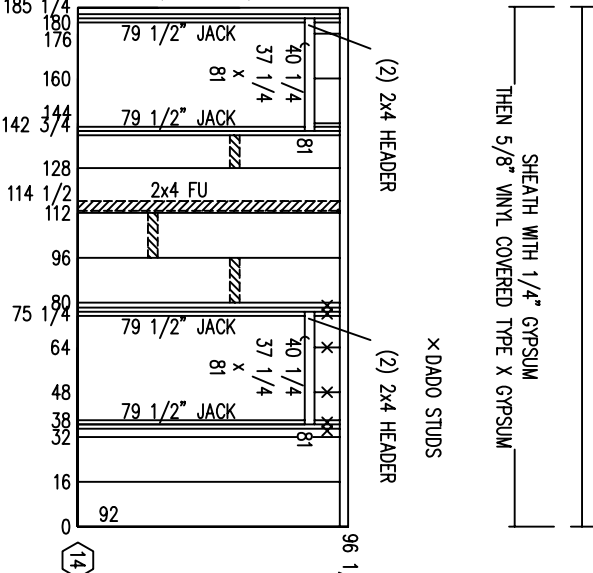
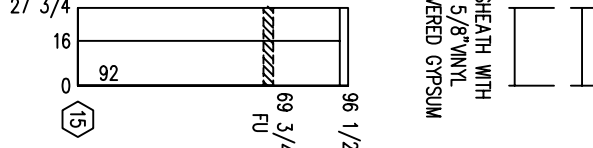
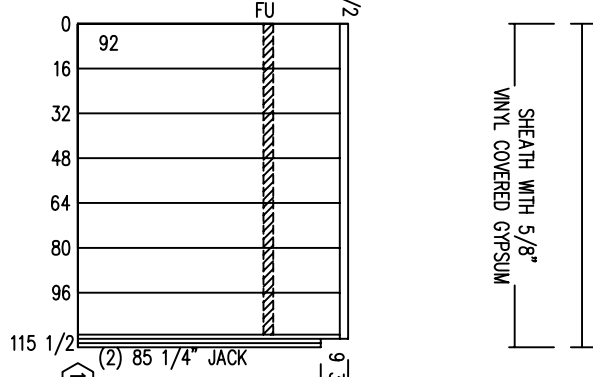
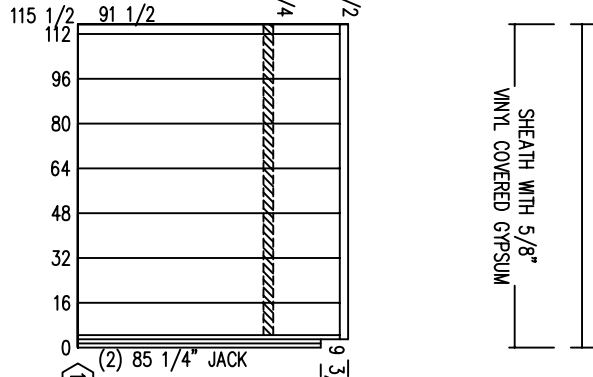
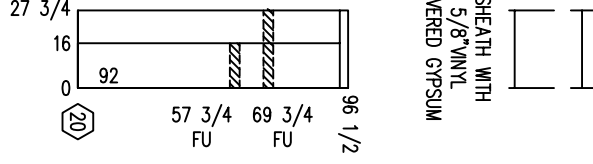
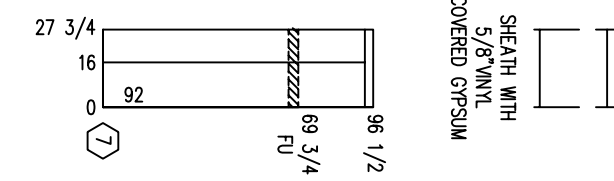
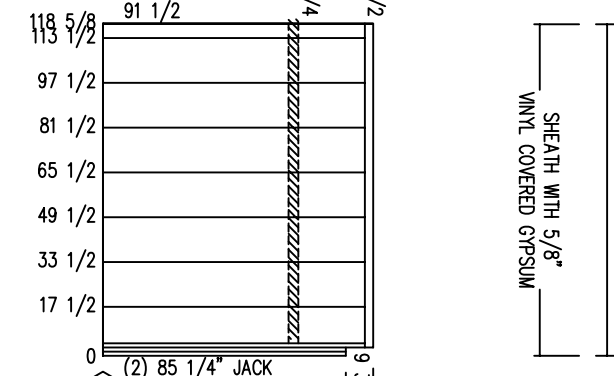
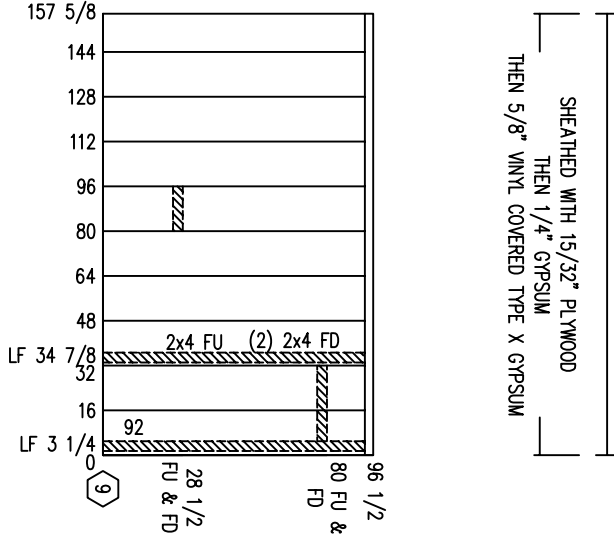
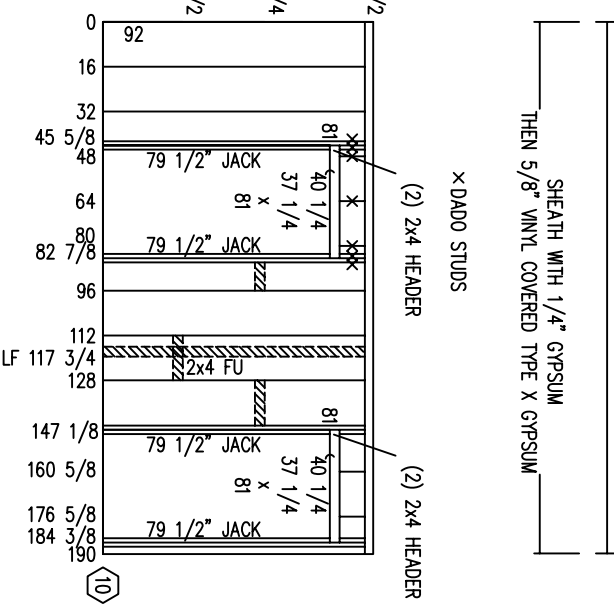
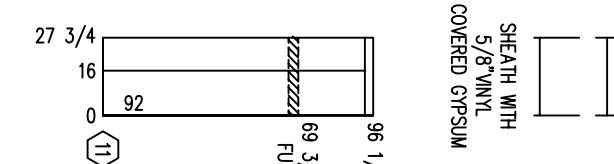
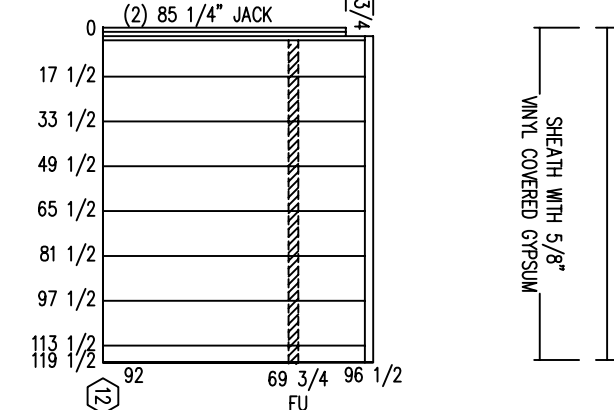
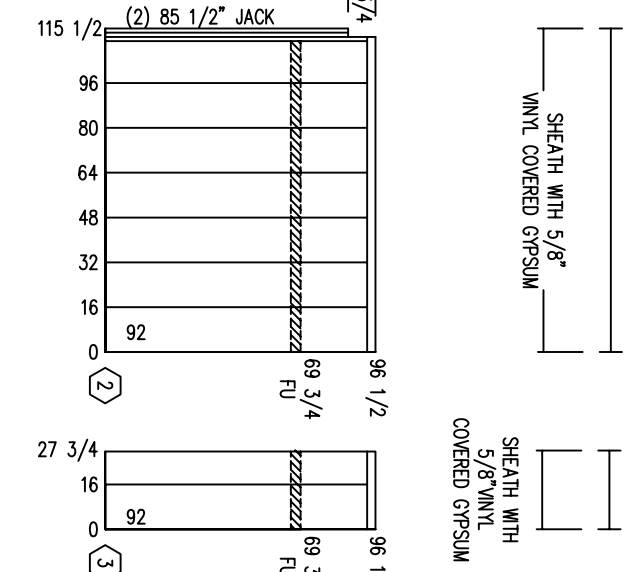
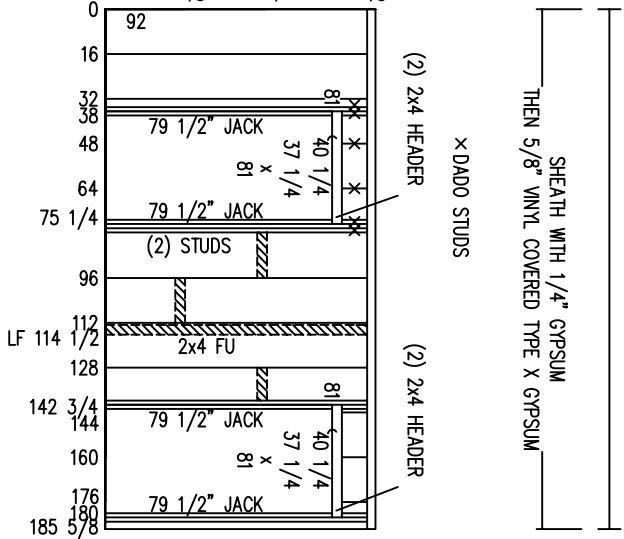
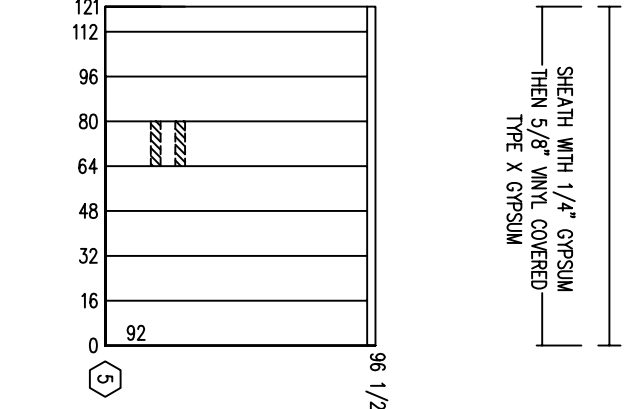
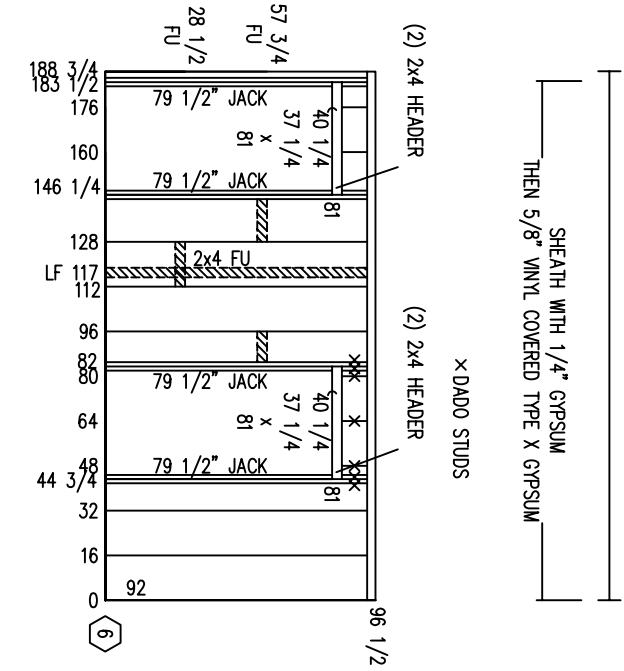
Alutiq
Manufacturing Contractors LLC
907.222.9000

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Date: 3-10-06	Scale: 1/8"=1'-0"	File: FTR24515.0D	Project: FTR24515.0D
Drawing #: 44-64-73-11-109			

FOR AIRBORNE COMBAT FACILITIES
FOR AIRBORNE COMBAT FACILITIES
64' BARRACKS
CODE PLAN 1
AS-BUILT DRAWINGS

PARTITIONS: INTERIOR





CONTRACT NO. W911KB-05-05-0005	CONTRACTOR ALTRIO BAY, COAL, LLC
CITY ANCHORAGE	STATE ALASKA
PROJECT CONTRACTOR	RESIDENT ENGINEER
Recommended:	Approved:
Date:	Date:

Qty.	Action	Description	Date	Apprv.

3201 G Street
Anchorage, AK 99503
807.222.9000
Manufacturing Contractors LLC

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BUILDING SYSTEMS, INC.
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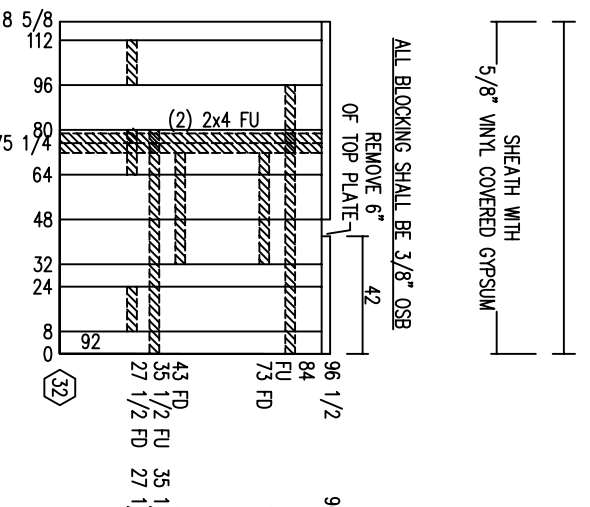
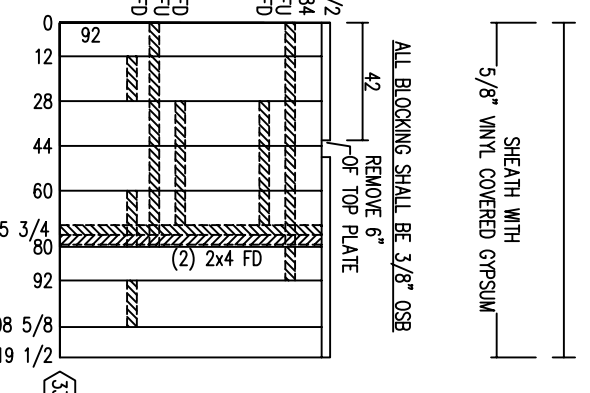
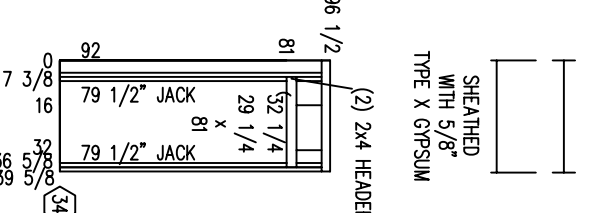
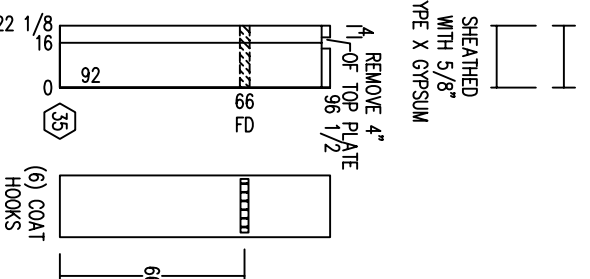
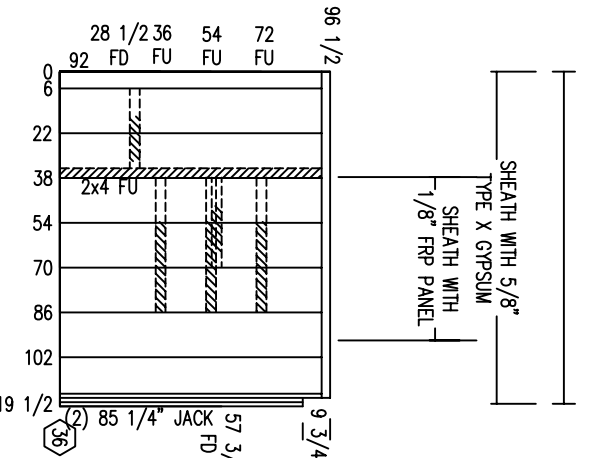
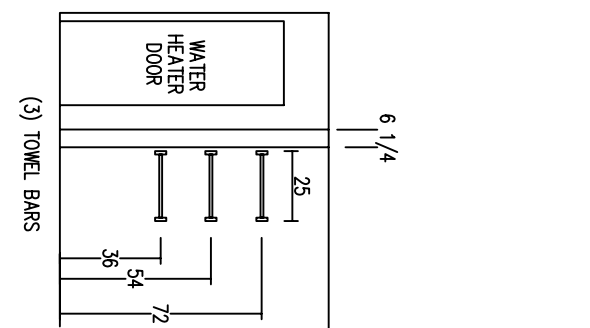
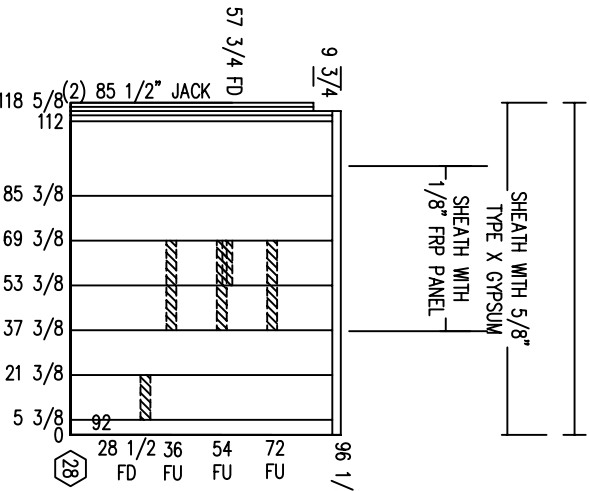
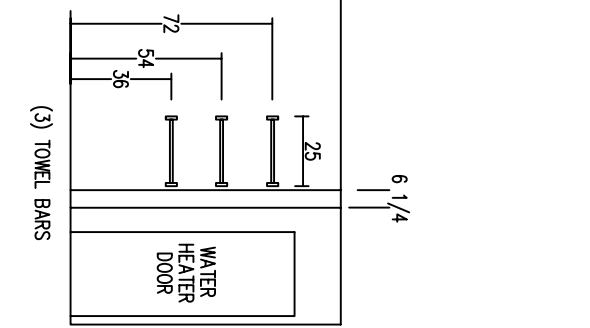
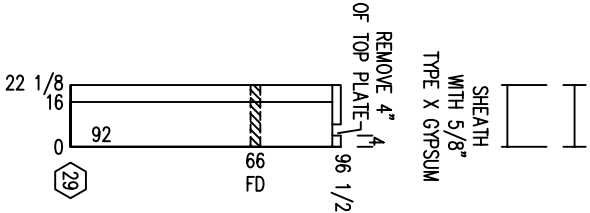
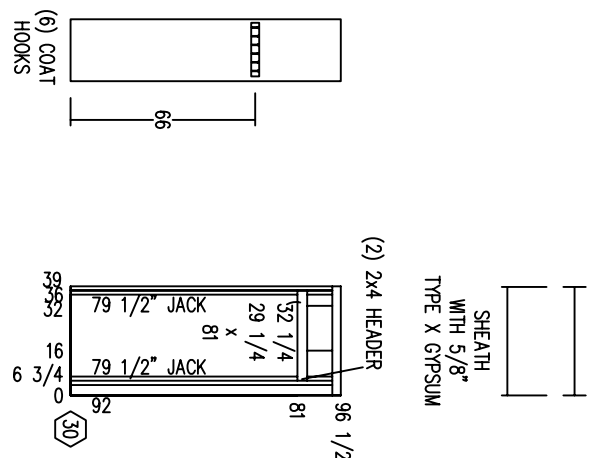
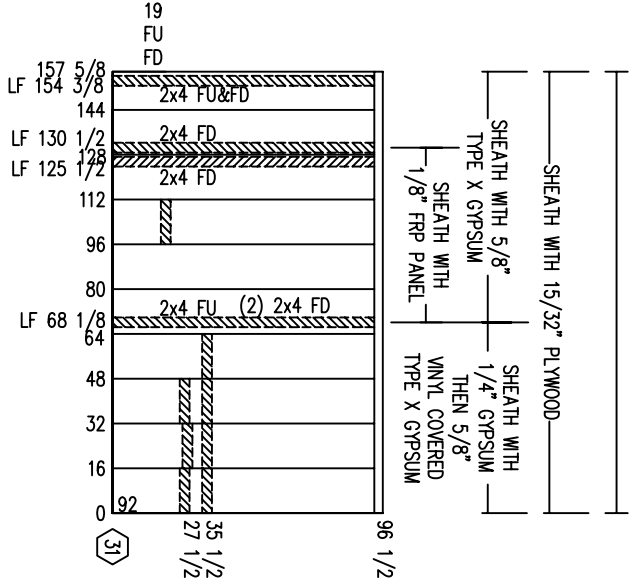
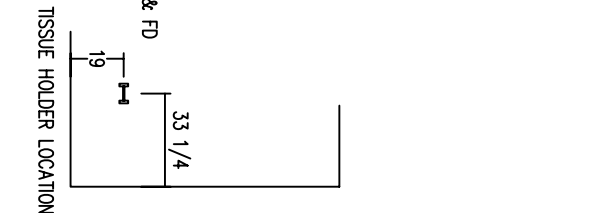
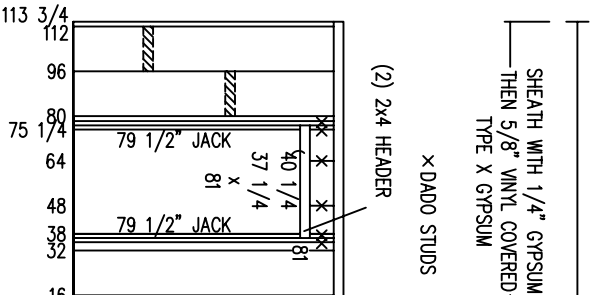
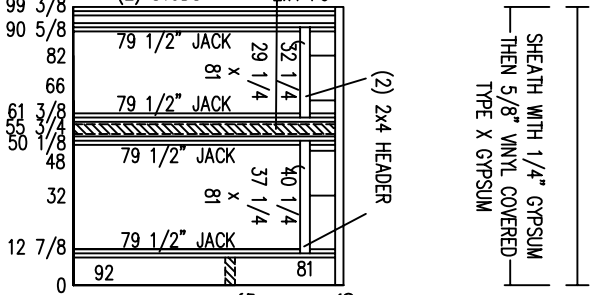
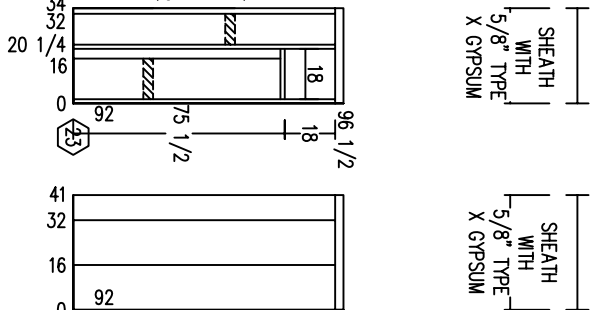
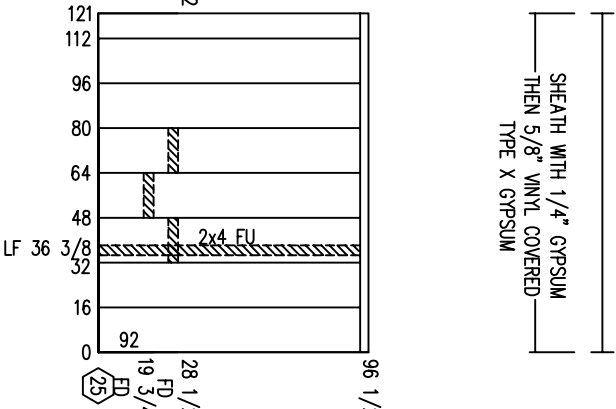
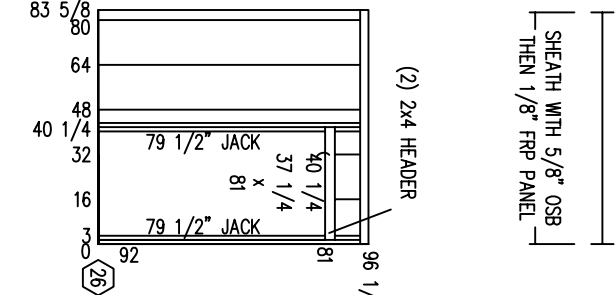
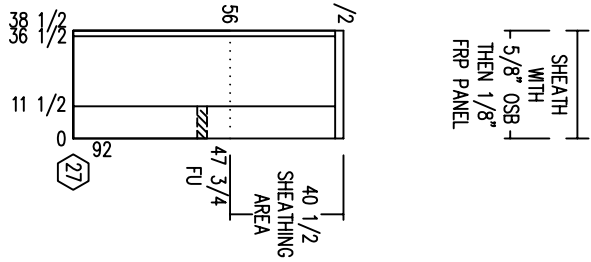
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Fort Richardson, Alaska
FTR245 INTERIM FACILITIES
64 BARACKS
CODE PLAN 1
AS-BUILT DRAWINGS

FOR AIRBORNE COMBAT BRIGADE

Reference number: 15E	Sheet 30 of 50
-----------------------	----------------

PARTITIONS: INTERIOR





CONTRACT NO. W911KB-05-C-0005	
CONTRACTOR ALTRIO BAY, CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended: _____	Approved: _____
Prime Contractor: _____	Resident Engineer: _____
Date: _____	

Qty.	Action	Description	Date	Apprv.

3201 G Street
Suite 200
Anchorage, AK 99503
907.222.9000

Manufacturing Contractors LLC
907.222.9000

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PREPARED BY: COMARK SYSTEMS, INC.

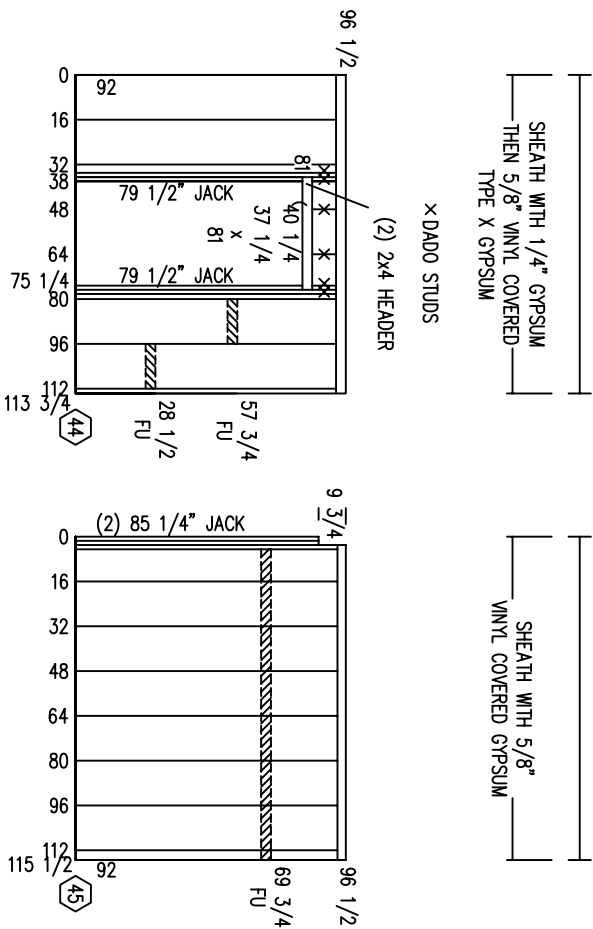
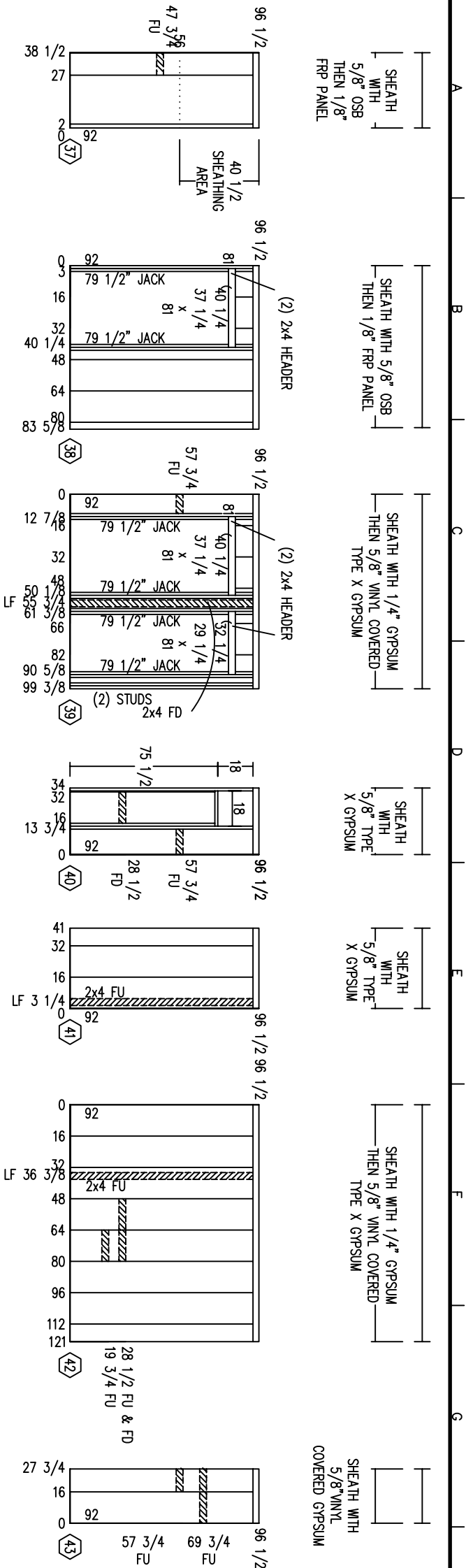
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W911KB-05-0009		

FOR AIRBORNE COMBAT BRIGADE
64th BARRACKS
AS-BUILT DRAWINGS

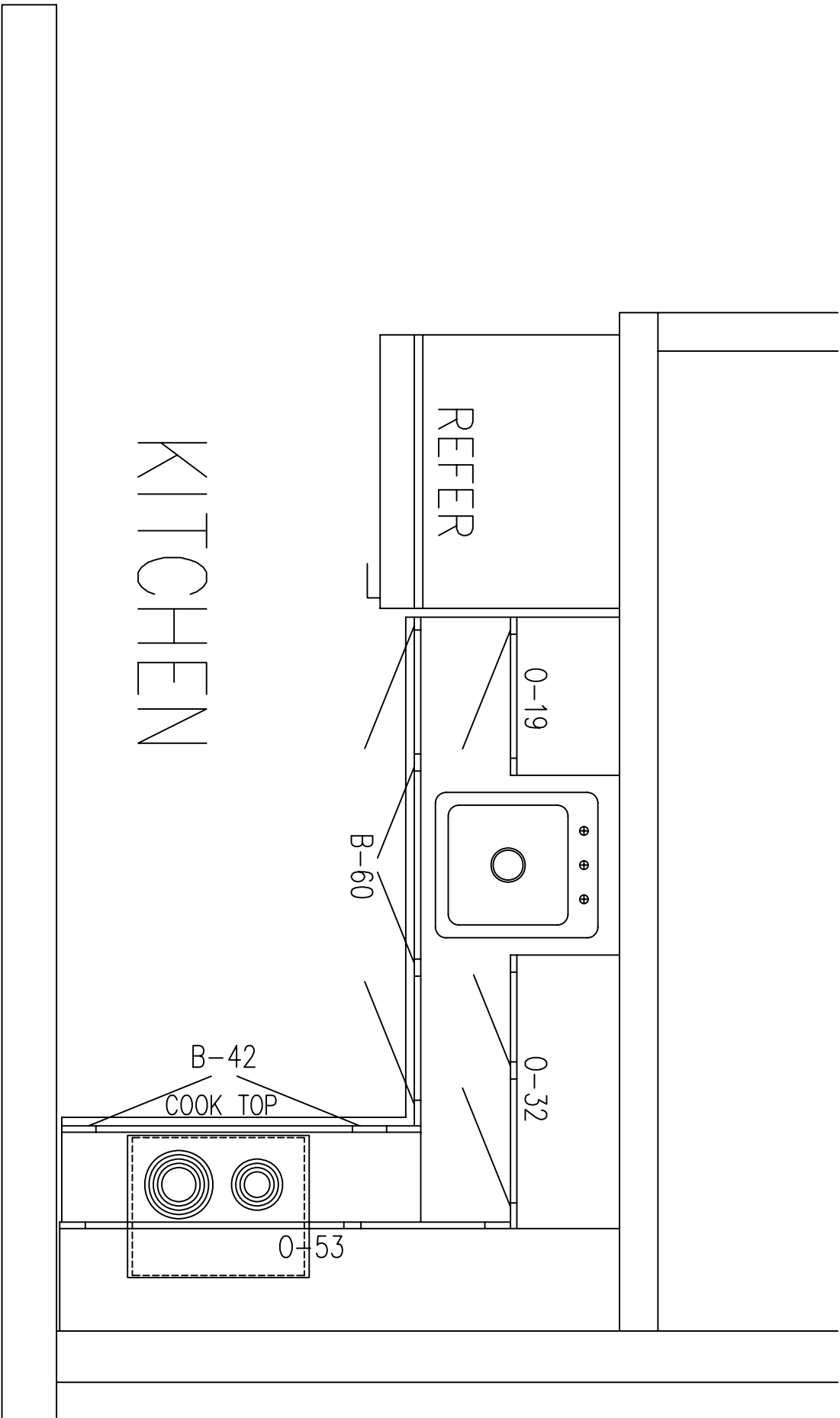
FOR RICHARDSON ALASKA
INTERIM FACILITIES

Reference number: 15F
Sheet 31 of 50

PARTITIONS: INTERIOR



BUILD 1 RIGHT AND 1 LEFT, SEE FLOOR PLAN



KITCHEN LAY OUT



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTRIO M&M CON. LLC	
CITY ALASKA	
STATE	
DESIGNED BY	DATE:
RECOMMENDED BY	DATE:
PRIME CONTRACTOR	RESIDENT ENGINEER

Qty.	Action	Description	Date	Appvd

Alutiq
3201 C Street
Suite 700
Anchorage, AK 99503
Manufacturing Contractors LLC
907.222.9800

COMARK
3500L COMARK BUILDING SYSTEMS, INC.
At Right Reserved

Designed: COMARK	Drawn: LHW	Reviewed: COMARK	Checked: COMARK
Date: 3-10-06	Proj. Scale: 1:1	Proj. Scale: 1/8"=1'-0"	Sheet: FTR24516.0A
Drawing # 44-0-1-751-11-07			

CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTRIO M&M CON. LLC	
CITY ALASKA	
STATE	
DESIGNED BY	DATE:
RECOMMENDED BY	DATE:
PRIME CONTRACTOR	RESIDENT ENGINEER

Fort Richardson Alaska
FTR245 INTERIM FACILITIES
FOR AIRBORNE COMBAT BRIGADE
ALL BARRACKS
AS_BUILT_DRAWINGS

Designed: COMARK	Drawn: LHW	Reviewed: COMARK	Checked: COMARK
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Drawing # 44-0-1-751-11-07			

Reference number: 16A
Sheet 32 of 50



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALUTIA MFG. CO., LLC	
CITY	STATE
RESIDENT ENGINEER	
DATE:	

Qty.	Action	Description	Date	Appvd

3201 C Street
Anchorage, AK 99503
907.222.9800
Manufacturing Contractors LLC

Alutia
Sustainable Building Systems, Inc.

Drawn: LHW	Reviewed: COMARK	Checked: COMARK	Designed: COMARK
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FOR: RICHARDSON, ALASKA

FT R245, INTERIM FACILITIES

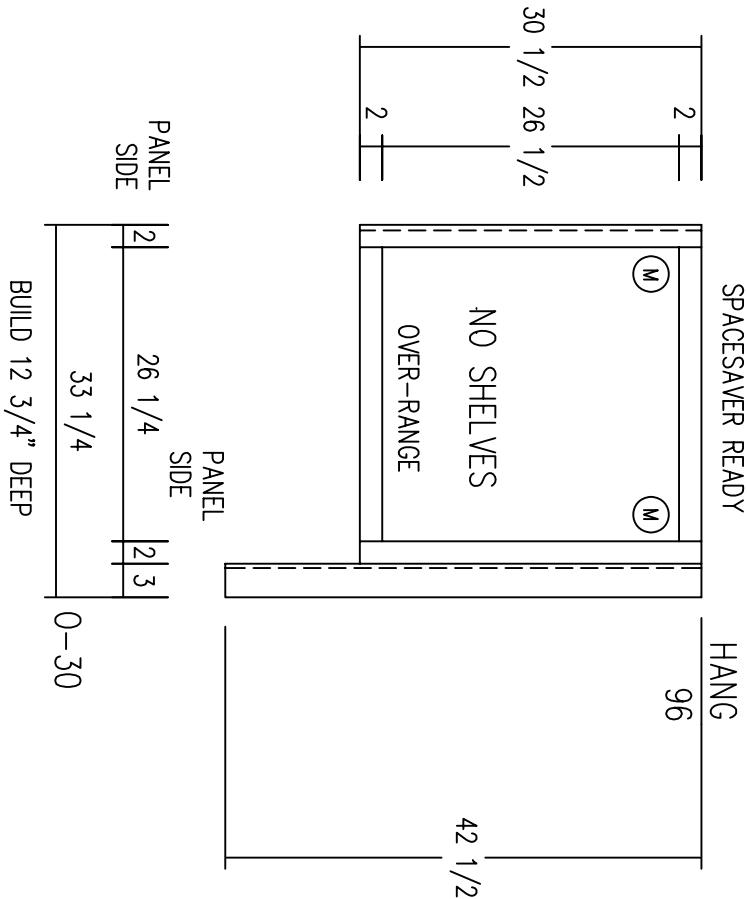
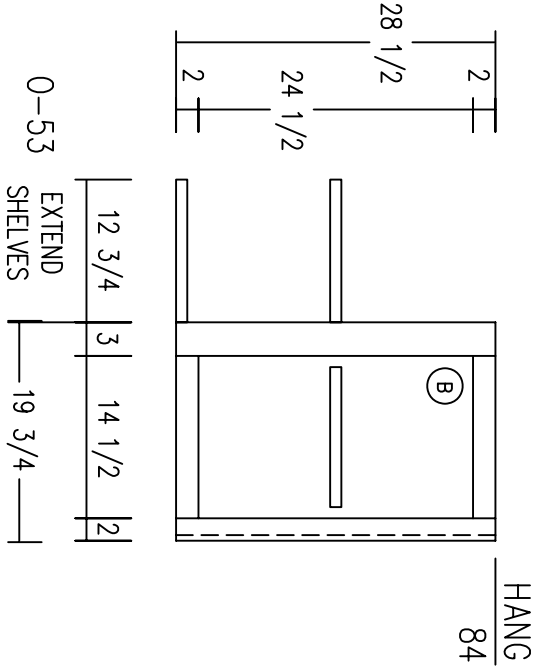
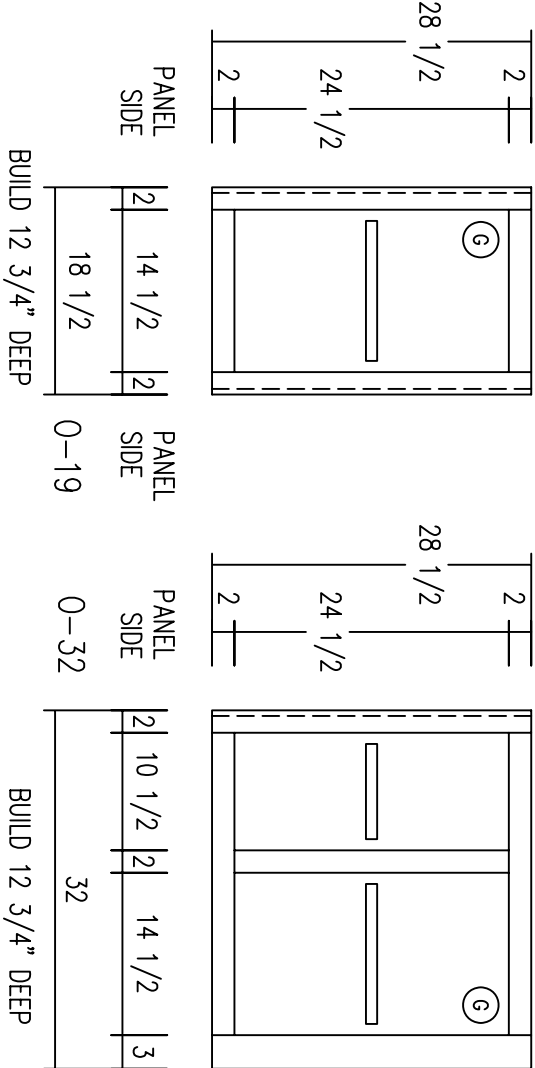
FOR: AIRBORNE COMBAT BRIGADE

ALL BARACKS

AS BUILT DRAWINGS

Reference Number: 16B

Sheet 33 of 50



SPACESAVER MICRO

CABINET DOOR/DRAWER SIZE SCHEDULE

- (A) = 11 1/2 x 19 1/2
- (B) = 11 1/2 x 26 1/2
- (C) = 15 1/2 x 11 1/2
- (D) = 15 1/2 x 19 1/2
- (E) = 15 1/2 x 26 1/2
- (F) = 19 1/2 x 19 1/2
- (G) = 19 1/2 x 26 1/2
- (H) = 15 1/2 x 43 1/2
- (M) = 13 5/8 x 28 1/2
- (R) = 11 1/2 x 6
- (S) = 15 1/2 x 6
- (T) = 19 1/2 x 6
- (U) = 11 1/2 x 9 3/8
- (V) = 15 1/2 x 9 3/8
- (W) = 19 1/2 x 9 3/8
- (X) = 11 1/2 x 12 3/4
- (Y) = 15 1/2 x 12 3/4
- (Z) = 19 1/2 x 12 3/4
- (UU) = 23 x 9 3/8
- (VV) = 31 x 9 3/8
- (WW) = 39 x 9 3/8
- (XX) = 23 x 12 3/4
- (YY) = 31 x 12 3/4
- (ZZ) = 39 x 12 3/4
- (RR) = 23 x 6
- (SS) = 31 x 6
- (TT) = 39 x 6

OVERHEAD CABINETS



PRIME CONTRACTOR		RESIDENT ENGINEER
RECOMMENDED BY		DATE
CITY	STATE	ALASKA
CONTRACTOR		ALUTIA MAN. CO., LLC
CONTRACT NO.		W911KB-05-C-0008

[illegible]

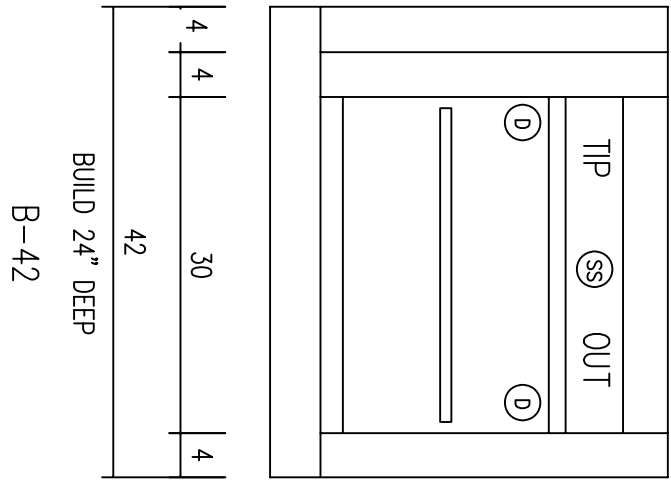
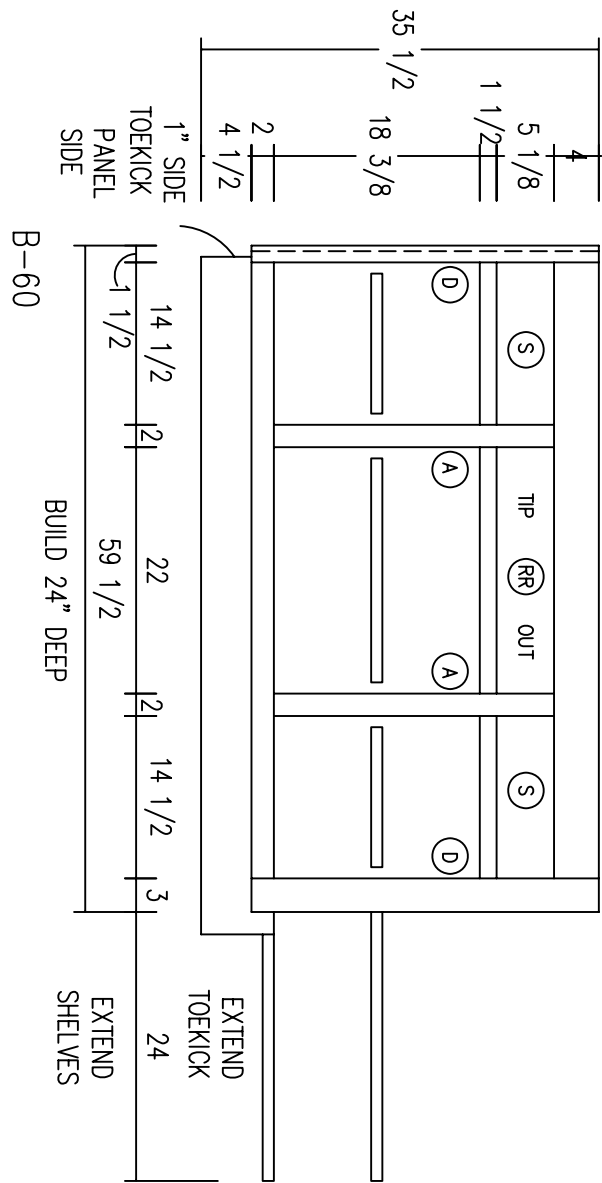
3201 C Street
 Suite 700
 Anchorage, AK
 99505
 907.222.9500
Alutiiq
 Manufacturing Contractors LLC

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 BUILDING SYSTEMS, INC.
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Drawing # 48-453-731-11-07
 File: FTR24516.00
 Plot Scale: 1/8" = 1'-0"
 Dwg. Scale: 1:1
 Date: 3-10-06

FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 ALL_BARACKS
 CODE_PLAN_1
 AS_BUILT_DRAWINGS

Reference
number:
16C
Sheet 34 of 50



CABINET DOOR/DRAWER SIZE SCHEDULE

(A) = 11 1/2 x 19 1/2	(G) = 19 1/2 x 26 1/2	(U) = 11 1/2 x 9 3/8	(UU) = 23 x 9 3/8
(B) = 11 1/2 x 26 1/2	(H) = 15 1/2 x 43 1/2	(V) = 15 1/2 x 9 3/8	(VV) = 31 x 9 3/8
(C) = 15 1/2 x 11 1/2		(W) = 19 1/2 x 9 3/8	(WW) = 39 x 9 3/8
(D) = 15 1/2 x 19 1/2	(R) = 11 1/2 x 6	(X) = 11 1/2 x 12 3/4	(XX) = 23 x 12 3/4
(E) = 15 1/2 x 26 1/2	(S) = 15 1/2 x 6	(Y) = 15 1/2 x 12 3/4	(YY) = 31 x 12 3/4
(F) = 19 1/2 x 19 1/2	(T) = 19 1/2 x 6	(Z) = 19 1/2 x 12 3/4	(ZZ) = 39 x 12 3/4
	(RR) = 23 x 6		
	(SS) = 31 x 6		
	(TT) = 39 x 6		

BASE CABINETS



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALUTIA MFG. CO., LLC	
STATE ALASKA	
CITY	Resident Engineer

Qty.	Action	Description	Date	App'd

Alutia

Manufacturing Contractors LLC

907.222.9800

99503

3201 C Street

Anchorage, AK

COMARK

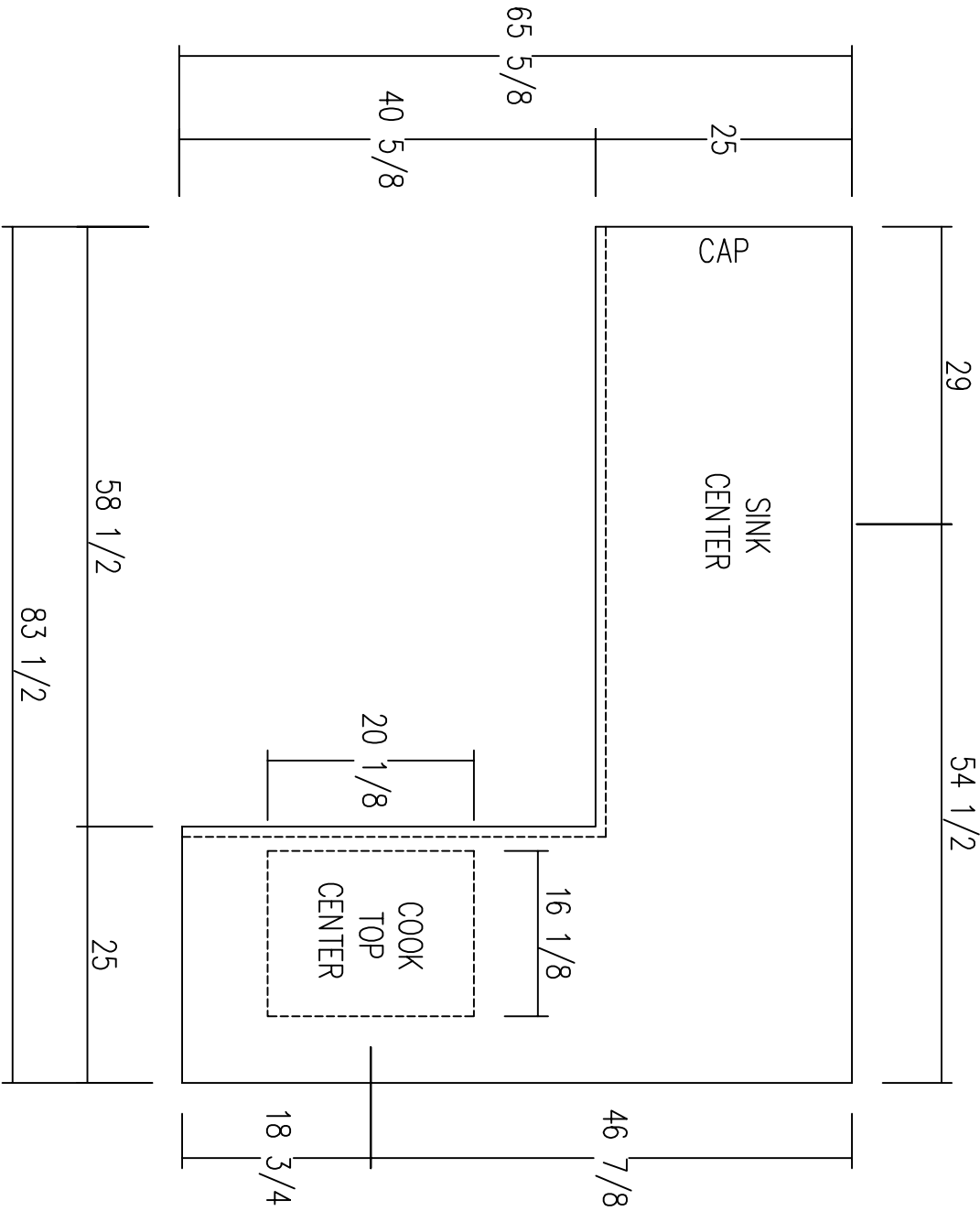
3500, COMARK BUILDING SYSTEMS, INC.

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Reviewed: COMARK	Proj. Scale: 1/8"=1'-0"
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Contract: W911KB-05-0009	

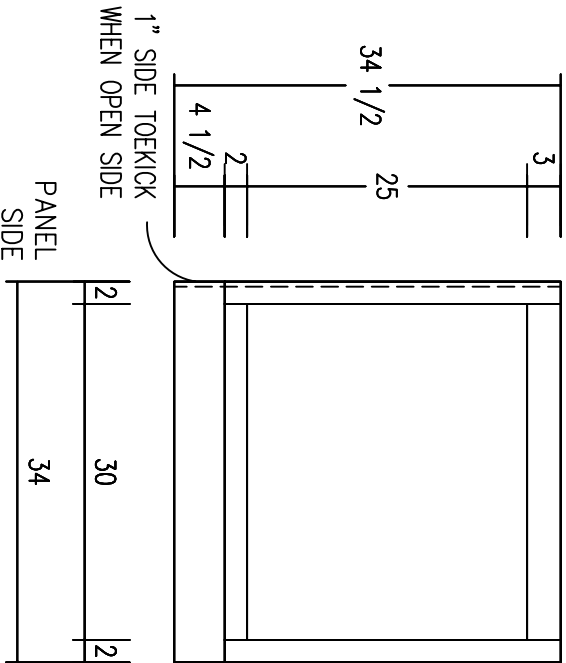
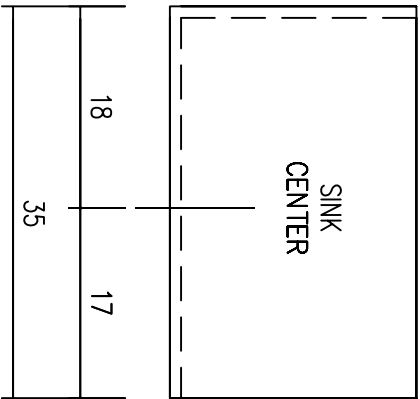
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FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
ALL_BARACKS
AS_BUILT_DRAWINGS

Reference number:
16D
Sheet 35 of 50

KITCHEN COUNTER TOPS



BUILD 1 RIGHT AND 1 LEFT, SEE FLOOR PLAN



CABINET DOOR/DRAWER SIZE SCHEDULE

- (A) = 11 1/2 x 19 1/2 (G) = 19 1/2 x 26 1/2 (U) = 11 1/2 x 9 3/8 (UU) = 23 x 9 3/8
- (B) = 11 1/2 x 26 1/2 (H) = 15 1/2 x 43 1/2 (V) = 15 1/2 x 9 3/8 (VV) = 31 x 9 3/8
- (C) = 15 1/2 x 11 1/2 (R) = 11 1/2 x 6 (RR) = 23 x 6 (W) = 19 1/2 x 9 3/8 (WW) = 39 x 9 3/8
- (D) = 15 1/2 x 19 1/2 (S) = 15 1/2 x 6 (SS) = 31 x 6 (X) = 11 1/2 x 12 3/4 (XX) = 23 x 12 3/4
- (E) = 15 1/2 x 26 1/2 (T) = 19 1/2 x 6 (TT) = 39 x 6 (Y) = 15 1/2 x 12 3/4 (YY) = 31 x 12 3/4
- (F) = 19 1/2 x 19 1/2 (Z) = 19 1/2 x 12 3/4 (ZZ) = 39 x 12 3/4

34" LAV BASE
V-134A



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALUTIQ M&M CON. LLC	
CITY STATE	RESIDENT ENGINEER
DATE:	

Qty.	Action	Description	Date	Appvd

3201 C Street Suite 700 Anchorage, AK 99503	Alutiq Manufacturing Contractors LLC 907.222.9800
DESIGNED BY: COMARK	CHECKED BY: COMARK
DRAWN BY: LHW	DATE: 3-10-06
PROJECT: FTR24516.0E	SCALE: 1/8"=1'-0"
Drawing # W911KB-05-C-0009	

FORT RICHARDSON, ALASKA	ALL BARRACKS
FTR245 INTERIM FACILITIES	AS BUILT DRAWINGS

Reference number:	16E
Sheet	36 of 50

GENERAL NOTES:

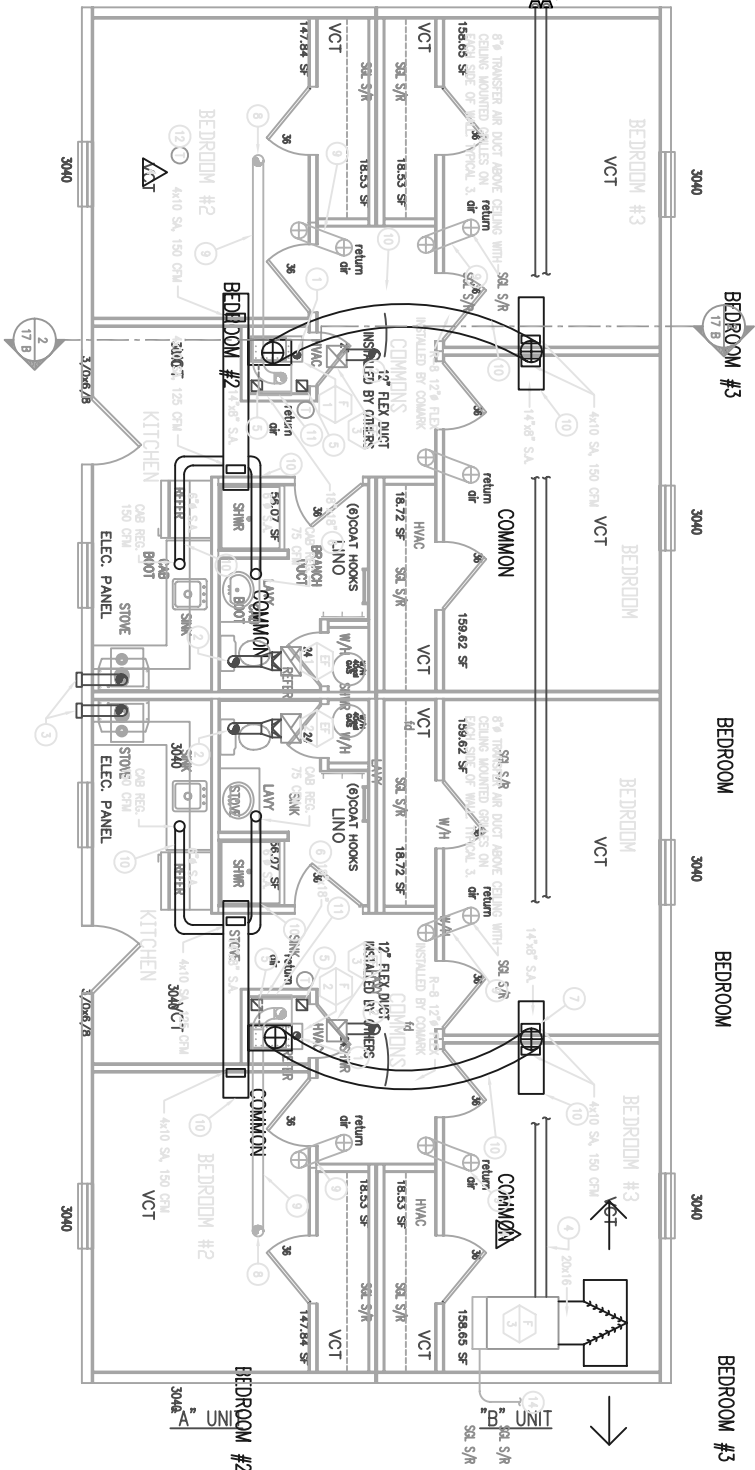
1) INSTALL ALL SHEET METAL IN ACCORDANCE WITH LATEST ASHRAE AND SMACNA RECOMMENDATIONS. PROVIDE VARIATIONS IN DUCT SIZE AND ADDITIONAL DUCT FITTINGS AS REQUIRED TO CLEAR OBSTRUCTIONS AND MAINTAIN CLEARANCES.

IECC MECHANICAL NOTES:

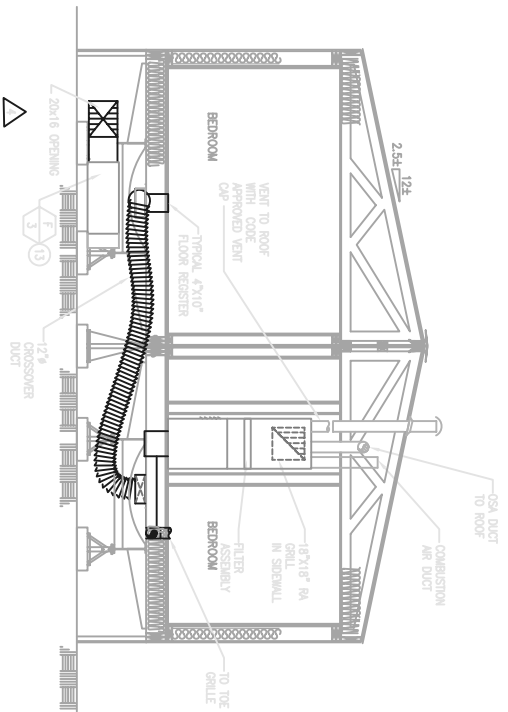
- 1) DUCTWORK TO BE SEaled WITH LISTED DUCT SEALER OR EQUAL. DUCT TYPE IS NOT ACCEPTABLE.
- 2) ALL SUPPLY AND RETURN AIR DUCTS AND PLenums SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION WHEN LOCATED IN UNOCCUPIED SPACE.
- 3) ALL SUPPLY AND RETURN AIR DUCTS AND PLenums SHALL BE INSULATED WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING.
- 4) DUCTS IN TEMPERED SPACES THAT SERVE THAT AREA OF DUCTS WITH A TEMPERATURE DIFFERENCE LESS THAN 15° F DO NOT REQUIRE INSULATION.
- 5) ALL THERMOSTATS TO BE ELECTRONIC DIGITAL.

KEY NOTES:

- 1) 4" FLE VENT TO ROOF WITH CODE APPROVED VENT CONNECTOR.
- 2) 6" G.E. UP TO ROOF. TERMINATE WITH ROOF JACK AND FLASHING AS REQUIRED. EXHAUST DUCT SHALL BE INSULATED WITH MINIMUM R-8.
- 3) 6" KITCHEN HOOD EXHAUST. TERMINATE AT SIDE OF BUILDING WITH CODE APPROVED DOWNDRAIN WALL CAP.
- 4) W/RS FLE KIT: TWO 2-1/2" PVC DUCTS TO SIDE OF BUILDING WITH VENT TERMINATION.
- 5) COMBUSTION AIR DUCTS PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. LOWER DUCT SHALL BE INSULATED AND ROUTED TO SKYDRAVE IN FIELD BY COMMON. UPPER DUCT SHALL TERMINATE PER STATE AND LOCAL CODES AND STANDARDS.
- 6) 18"X18" COMMERCIAL GRADE RETURN GRILLE.
- 7) SUPPLY GRILLES SHALL BE COMMERCIAL GRADE, 4"x10" (TYPICAL).
- 8) 6"X OUTSIDE AIR DUCT TO ROOF WITH CODE APPROVED ROOF CAP WITH BIRD SCREEN. INSULATE DUCT WITH R-8.
- 9) DUCT LOCATED IN ATTIC SPACE.
- 10) DUCT LOCATED IN CRAWL SPACE.
- 11) DUCT LOCATED IN CONDITIONED SPACE.
- 12) SECURE THERMOSTAT TO BUILDING BASE RAIL OR CONCRETE PILING. THERMOSTAT SHALL BE MOUNTED ON 1" THICK CORK OR RIGID INSULATION PWD.
- 13) SUPPORT FINANCE FROM FLOOR STRUCTURE WITH 3/8" HANGER RODS. INSTANT SUPPORT FRAME AND 20 GA. 1" SECURE STRAP WITH BEAM CLAMPS TO BUILDING STEEL BEAM CHASSIS.
- 14) PROVIDE 4"x4"x14'-0" RETURN AIR DUCT ON BACK OF FINANCE 50 CIL. PROVIDE BALANCING DAMPERS ON BOTH DUCTS AS REQUIRED FOR BALANCING.



1 HVAC FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 HVAC SECTION DETAIL
SCALE: 1/4" = 1'-0"



CONTRACT NO.	W911KB-05-0-0009
CONTRACTOR	ALTITUDE MFG. CO., LLC
CITY	ANCHORAGE
STATE	ALASKA
DATE	

Rev.	Action	Date	Appr.

Altitude	3201 C Street	99504 Anchorage, AK	907.222.9500
Manufacturer	Altitude Manufacturing Corporation LLC	3201 C Street	99504 Anchorage, AK
Altitude	3201 C Street	99504 Anchorage, AK	907.222.9500
Altitude	3201 C Street	99504 Anchorage, AK	907.222.9500
Altitude	3201 C Street	99504 Anchorage, AK	907.222.9500
Altitude	3201 C Street	99504 Anchorage, AK	907.222.9500
Altitude	3201 C Street	99504 Anchorage, AK	907.222.9500
Altitude	3201 C Street	99504 Anchorage, AK	907.222.9500
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Altitude	3201 C Street	99504 Anchorage, AK	907.222.9500

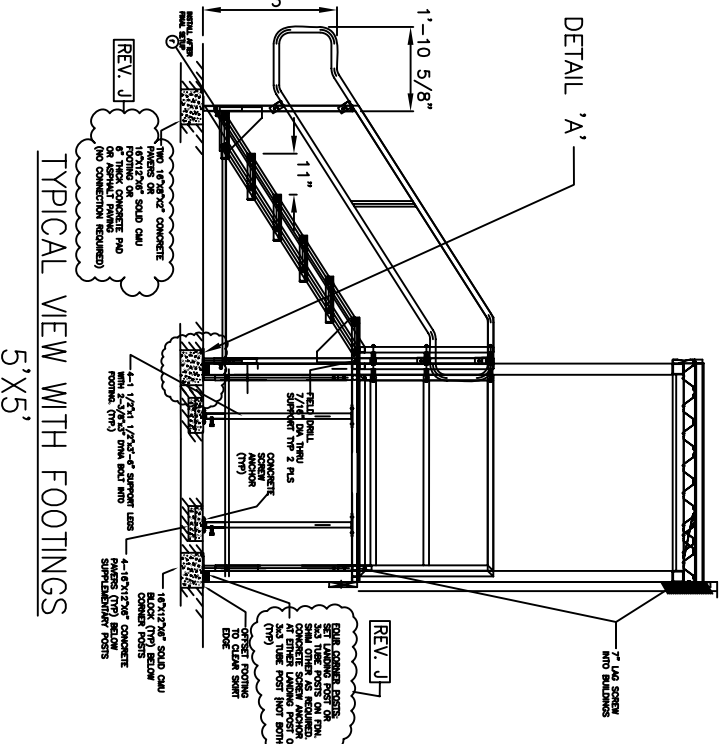
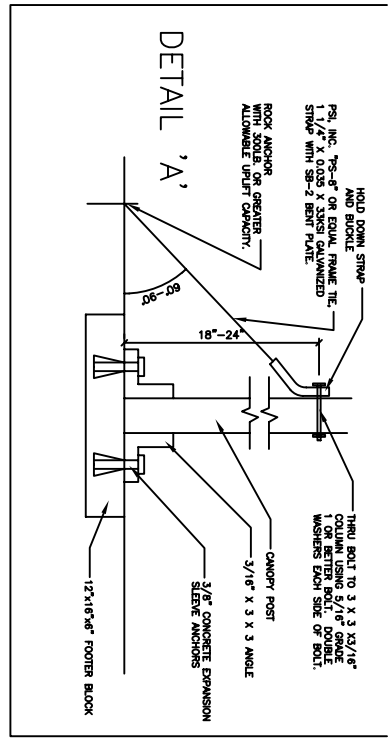
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS
FOR AIRBORNE COMBAT BRIGADE	64 BARRACKS	AS-BUILT-DRAWINGS

Reference number:	17-B
Sheet	38 of 50

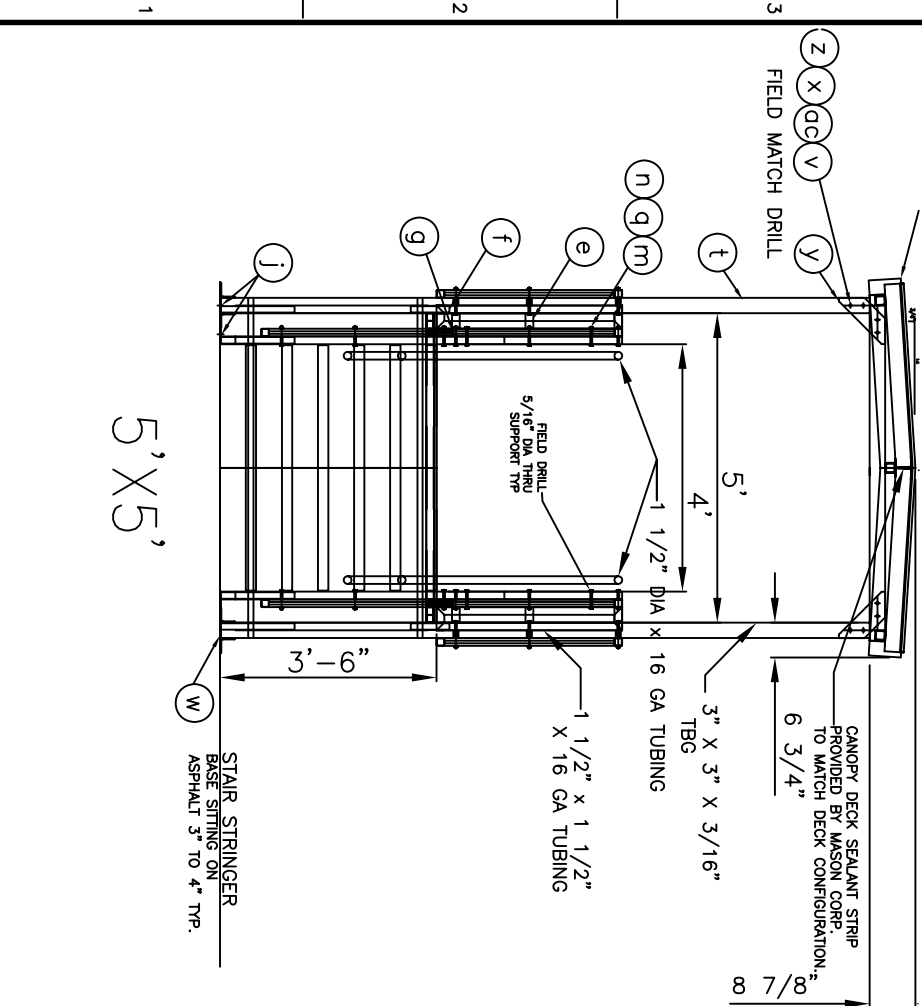
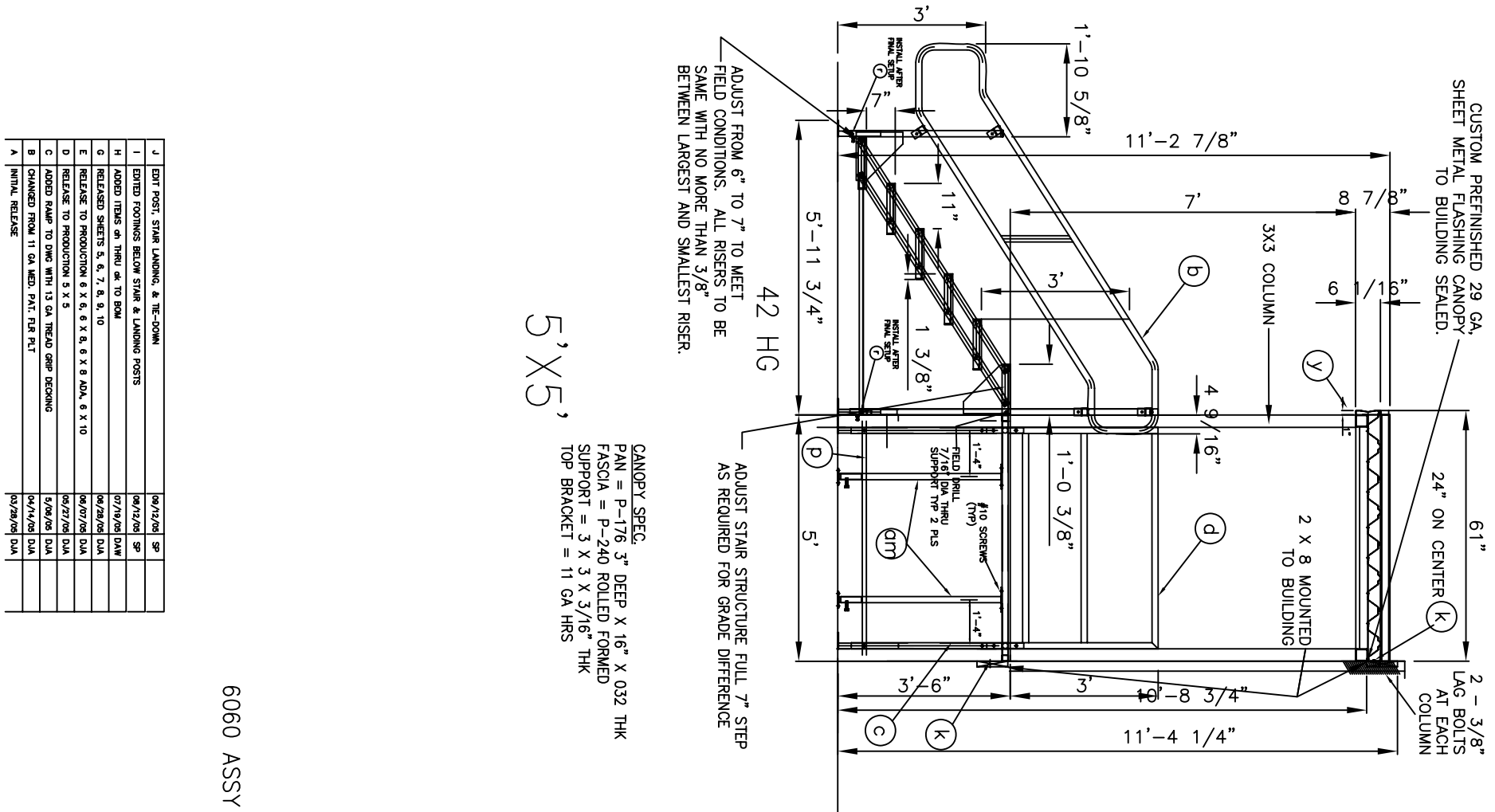
Sym.	Action	Description	Date	Appr'd

3/14/06
W911KB-05-C-0009
FTR24518.0
FTR-245 INTERM FACILITIES
FOR AIRBORNE COMBAT BRIGADE
FORT RICHARDSON, ALASKA
AS-BUILT DRAWINGS
Reference number: 18
Sheet 39 of 50

6060 ASSY
STAIR STRINGER
BASE SITTING ON
ASPHALT 3" TO 4" TYP.



J	EDIT POST STAIR LANDING, & TIE-DOWN	09/12/06	SP
I	EDIT FOOTINGS BELOW STAIR & LANDING POSTS	09/12/06	SP
H	ADDED ITEMS ON THRU dk TO BOM	07/19/06	DAM
G	RELEASED SHEETS 5, 6, 7, 8, 9, 10	06/28/06	DUA
F	RELEASED TO PRODUCTION 6 X 6, 6 X 8, 6 X 8 A.D.A., 6 X 10	06/07/06	DUA
E	RELEASE TO PRODUCTION 5 X 5	06/27/06	DUA
D	RELEASE TO DWG WITH 13 GA TREAD GRIP DECKING	5/04/06	DUA
C	ADDED RAMP TO DWG WITH 13 GA TREAD GRIP DECKING	04/14/06	DUA
B	CHANGED FROM 11 GA MED. PAT. TIE PLT	03/28/06	DUA
A	INITIAL RELEASE		





CONTRACT NO. W1119-05-C-0009	
CONTRACTOR ALUTIA MFG. CO., LLC	
CITY ANCHORAGE	STATE ALASKA
Approved: _____ Date: _____	
PRIME CONTRACTOR _____ RESCUE ENGINEER _____	

Sym.	Action	Description	Date	Appvd
1	REMOVE	FOR REMOVAL	11/14/05	AK
2	REMOVE	FOR CONSTRUCTION	11/14/05	AK
3	REMOVE	REMOVE	11/14/05	AK
4	REMOVE	NO MOUNT FOR OWNER MARK USE	11/14/05	AK

3201 C Street
Suite 700
Anchorage, AK
99503
907.222.9500

Manufacturing Contractors LLC
907.222.9500

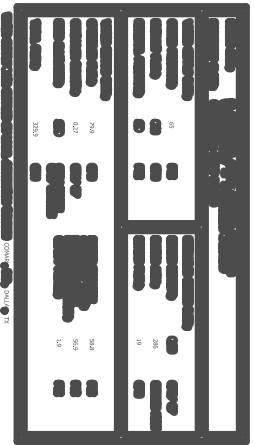
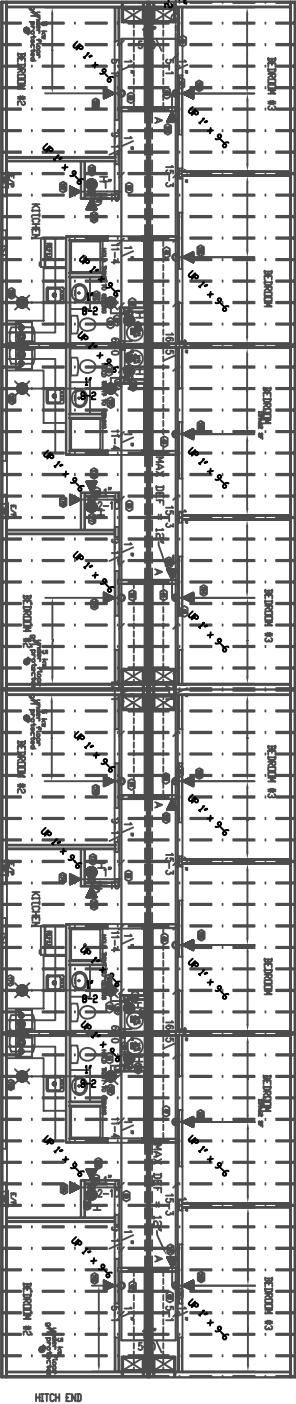
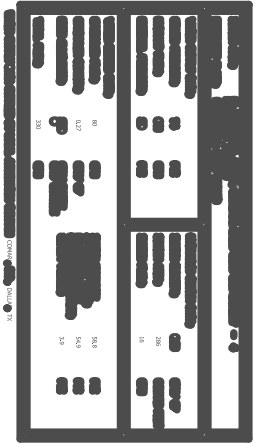
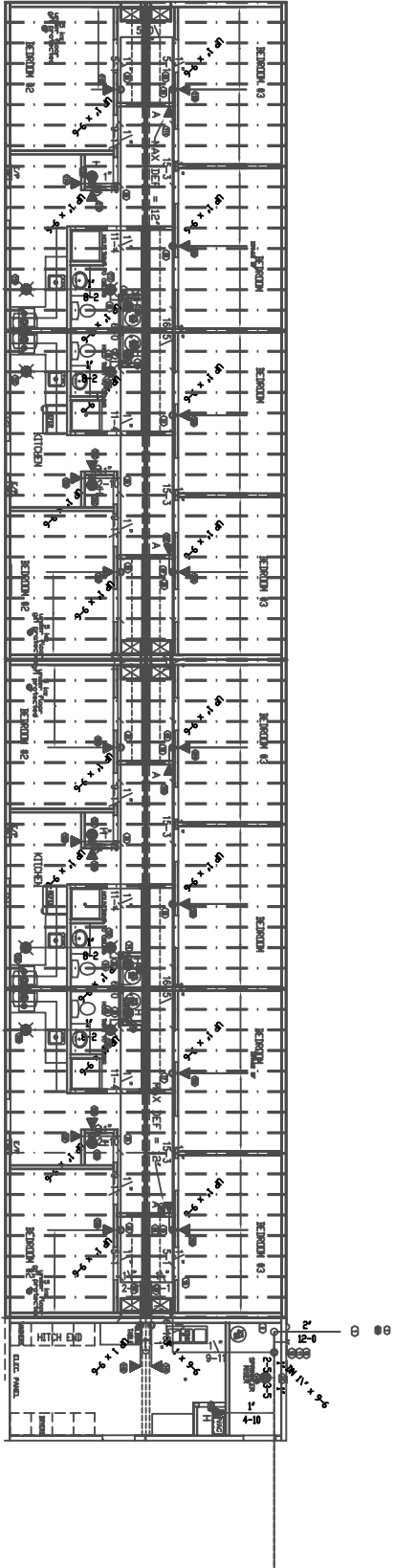
COMARK
DESIGN-BUILD SYSTEMS, INC.
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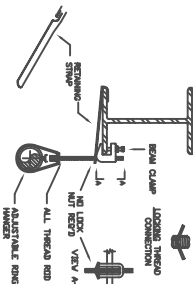
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Project: FTR244	Sheet: 19B	Project: FTR244	Sheet: 19B
Project: FTR244	Sheet: 19B	Project: FTR244	Sheet: 19B

FTR244 INFRASTRUCTURE
FOR INTERIM FACILITIES
64th BARRICKS
AS-BUILT DRAWINGS

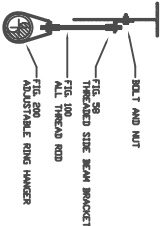
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Sheet 41 of 50

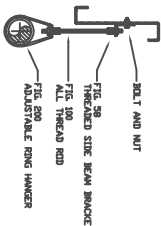




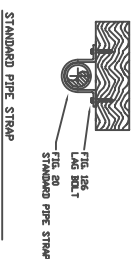
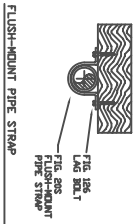
BOTTOM BEAM CLAMP, ROD, AND RING



THREADED STEEL BEAM BRACKET, ROD & RING
BEAM OR PURLIN CONSTRUCTION

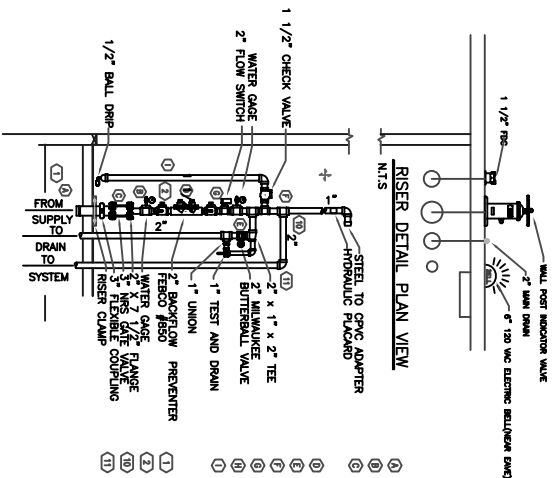


THREADED STEEL BEAM BRACKET, ROD & RING
PURLIN CONSTRUCTION

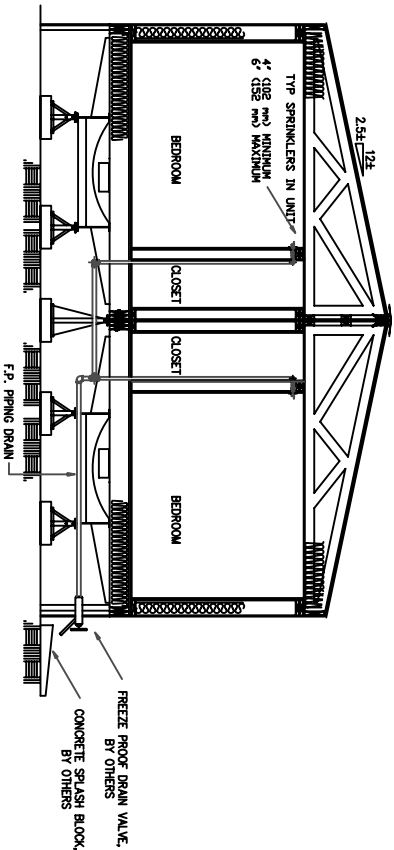


TYP. PIPE HANGER DETAILS

NTS

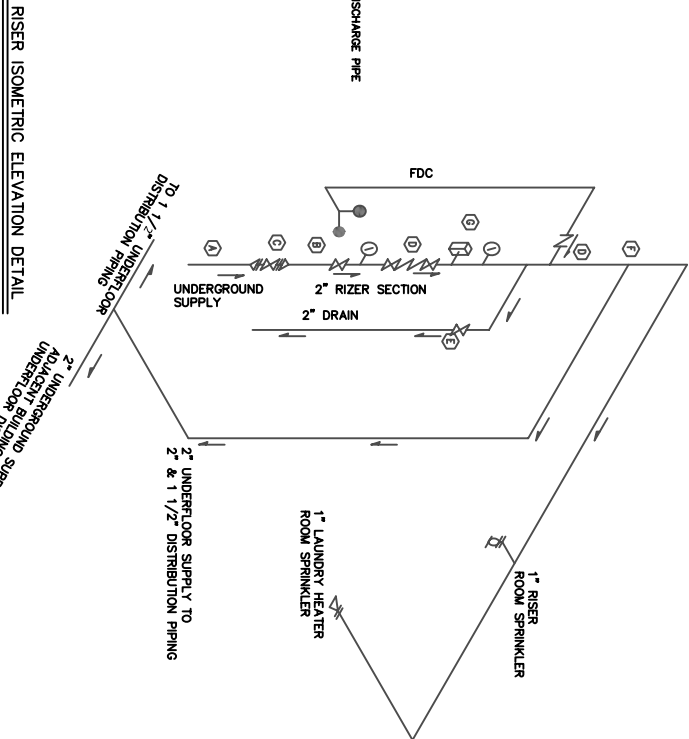


RISER ELEVATION DETAIL

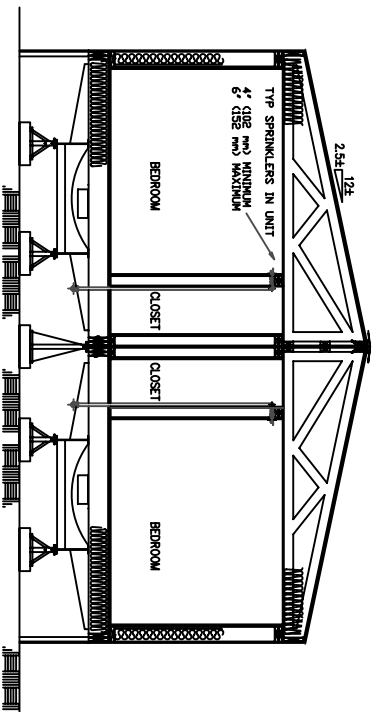


TYPICAL SECTION ELEVATION DETAIL
SHOWING DRAIN PIPING AND SPLASH BLOCK

NTS



RISER ISOMETRIC ELEVATION DETAIL



TYPICAL SECTION ELEVATION DETAIL

NTS

SPRINKLER SCHEDULE & LEGEND

SPRINKLER	RESPONSE	TEMPERATURE	WATER	TYPE	SIZE	BRAND
0.1	VS	155°F	1.5 GPM	VS	1/2"	VS
0.2	VS	155°F	1.5 GPM	VS	1/2"	VS
0.3	VS	155°F	1.5 GPM	VS	1/2"	VS
0.4	VS	155°F	1.5 GPM	VS	1/2"	VS
0.5	VS	155°F	1.5 GPM	VS	1/2"	VS
0.6	VS	155°F	1.5 GPM	VS	1/2"	VS
0.7	VS	155°F	1.5 GPM	VS	1/2"	VS
0.8	VS	155°F	1.5 GPM	VS	1/2"	VS
0.9	VS	155°F	1.5 GPM	VS	1/2"	VS
1.0	VS	155°F	1.5 GPM	VS	1/2"	VS
1.1	VS	155°F	1.5 GPM	VS	1/2"	VS
1.2	VS	155°F	1.5 GPM	VS	1/2"	VS
1.3	VS	155°F	1.5 GPM	VS	1/2"	VS
1.4	VS	155°F	1.5 GPM	VS	1/2"	VS
1.5	VS	155°F	1.5 GPM	VS	1/2"	VS
1.6	VS	155°F	1.5 GPM	VS	1/2"	VS
1.7	VS	155°F	1.5 GPM	VS	1/2"	VS
1.8	VS	155°F	1.5 GPM	VS	1/2"	VS
1.9	VS	155°F	1.5 GPM	VS	1/2"	VS
2.0	VS	155°F	1.5 GPM	VS	1/2"	VS
2.1	VS	155°F	1.5 GPM	VS	1/2"	VS
2.2	VS	155°F	1.5 GPM	VS	1/2"	VS
2.3	VS	155°F	1.5 GPM	VS	1/2"	VS
2.4	VS	155°F	1.5 GPM	VS	1/2"	VS
2.5	VS	155°F	1.5 GPM	VS	1/2"	VS
2.6	VS	155°F	1.5 GPM	VS	1/2"	VS
2.7	VS	155°F	1.5 GPM	VS	1/2"	VS
2.8	VS	155°F	1.5 GPM	VS	1/2"	VS
2.9	VS	155°F	1.5 GPM	VS	1/2"	VS
3.0	VS	155°F	1.5 GPM	VS	1/2"	VS
3.1	VS	155°F	1.5 GPM	VS	1/2"	VS
3.2	VS	155°F	1.5 GPM	VS	1/2"	VS
3.3	VS	155°F	1.5 GPM	VS	1/2"	VS
3.4	VS	155°F	1.5 GPM	VS	1/2"	VS
3.5	VS	155°F	1.5 GPM	VS	1/2"	VS
3.6	VS	155°F	1.5 GPM	VS	1/2"	VS
3.7	VS	155°F	1.5 GPM	VS	1/2"	VS
3.8	VS	155°F	1.5 GPM	VS	1/2"	VS
3.9	VS	155°F	1.5 GPM	VS	1/2"	VS
4.0	VS	155°F	1.5 GPM	VS	1/2"	VS
4.1	VS	155°F	1.5 GPM	VS	1/2"	VS
4.2	VS	155°F	1.5 GPM	VS	1/2"	VS
4.3	VS	155°F	1.5 GPM	VS	1/2"	VS
4.4	VS	155°F	1.5 GPM	VS	1/2"	VS
4.5	VS	155°F	1.5 GPM	VS	1/2"	VS
4.6	VS	155°F	1.5 GPM	VS	1/2"	VS
4.7	VS	155°F	1.5 GPM	VS	1/2"	VS
4.8	VS	155°F	1.5 GPM	VS	1/2"	VS
4.9	VS	155°F	1.5 GPM	VS	1/2"	VS
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5.1	VS	155°F	1.5 GPM	VS	1/2"	VS
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5.9	VS	155°F	1.5 GPM	VS	1/2"	VS
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6.1	VS	155°F	1.5 GPM	VS	1/2"	VS
6.2	VS	155°F	1.5 GPM	VS	1/2"	VS
6.3	VS	155°F	1.5 GPM	VS	1/2"	VS
6.4	VS	155°F	1.5 GPM	VS	1/2"	VS
6.5	VS	155°F	1.5 GPM	VS	1/2"	VS
6.6	VS	155°F	1.5 GPM	VS	1/2"	VS
6.7	VS	155°F	1.5 GPM	VS	1/2"	VS
6.8	VS	155°F	1.5 GPM	VS	1/2"	VS
6.9	VS	155°F	1.5 GPM	VS	1/2"	VS
7.0	VS	155°F	1.5 GPM	VS	1/2"	VS
7.1	VS	155°F	1.5 GPM	VS	1/2"	VS
7.2	VS	155°F	1.5 GPM	VS	1/2"	VS
7.3	VS	155°F	1.5 GPM	VS	1/2"	VS
7.4	VS	155°F	1.5 GPM	VS	1/2"	VS
7.5	VS	155°F	1.5 GPM	VS	1/2"	VS
7.6	VS	155°F	1.5 GPM	VS	1/2"	VS
7.7	VS	155°F	1.5 GPM	VS	1/2"	VS
7.8	VS	155°F	1.5 GPM	VS	1/2"	VS
7.9	VS	155°F	1.5 GPM	VS	1/2"	VS
8.0	VS	155°F	1.5 GPM	VS	1/2"	VS
8.1	VS	155°F	1.5 GPM	VS	1/2"	VS
8.2	VS	155°F	1.5 GPM	VS	1/2"	VS
8.3	VS	155°F	1.5 GPM	VS	1/2"	VS
8.4	VS	155°F	1.5 GPM	VS	1/2"	VS
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8.7	VS	155°F	1.5 GPM	VS	1/2"	VS
8.8	VS	155°F	1.5 GPM	VS	1/2"	VS
8.9	VS	155°F	1.5 GPM	VS	1/2"	VS
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9.3	VS	155°F	1.5 GPM	VS	1/2"	VS
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9.6	VS	155°F	1.5 GPM	VS	1/2"	VS
9.7	VS	155°F	1.5 GPM	VS	1/2"	VS
9.8	VS	155°F	1.5 GPM	VS	1/2"	VS
9.9	VS	155°F	1.5 GPM	VS	1/2"	VS
10.0	VS	155°F	1.5 GPM	VS	1/2"	VS

A B C D E F G H



CONTRACT NO. W911MB-05-C-0009	
CONTRACTOR ALTIMA MGMT. CORP., LLC	
CITY ANCHORAGE	STATE ALASKA
Approved: _____ Date: _____	
PROJECT ENGINEER	RESCUE ENGINEER

Sym.	Action	Description	Date	Appvd

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Manufacturing Contractors LLC
907.222.9000
99503
Anchorage, AK

3001 G Street
Suite 700
Anchorage, AK
Drawn: LHM
Reviewed: COMARK
Designed: COMARK

Date: 3-10-06	Dwg Scale: 1:1	Rev Scale: NTS	Rev: FTR24520.0A	Section	Sheet
Drawing File: 05-1-751-11-07					
Submitted: COMARK					
CMT: SECTION					
Drawing File: 05-1-751-11-07					

FOR_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
BARACKS
CODE_PLAN_1
AS-BUILT_DRAWINGS

Reference Number: 20A
Sheet 47 of 50

A B C D E F G H



CONTRACT NO. W911MB-05-C-0009	
CONTRACTOR ALTIMA MGMT. CORP., LLC	
CITY ANCHORAGE	STATE ALASKA
Approved: _____ Date: _____	
PROJECT CONTRACTOR	RESPONSIBLE ENGINEER

Sym.	Action	Description	Date	Appvd

3201 G Street
Suite 700
Anchorage, AK
99503

COMARK
Manufacturing Contractors LLC
907.222.9000

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Designed: COMARK	Date: 3-10-06
Drawn: LHM	Rev Scale: 1:1
Reviewed: COMARK	Rev Scale: NTS
Submitted: COMARK	Rev: FTR24520.0B
Sheet: 48 of 50	Drawing File: 05-1-751-11-07

FOR RICHARDSON ALASKA
FT 245 INTERIM FACILITIES
FOR AIRBORNE COMBAT BRIGADE
BARACKS
CODE PLAN 1
AS-BUILT DRAWINGS

Reference Number:
20B
Sheet 48 of 50

A B C D E F G H



CONTRACT NO. W911MB-05-C-0009	
CONTRACTOR ALTIMA MAN. CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Approved: _____ Date: _____	
PRIME CONTRACTOR	RESIDENT ENGINEER

Sym.	Action	Description	Date	Appvd

3201 G Street
Suite 700
Anchorage, AK
99503

COMARK
Manufacturing Contractors LLC
907.222.9000

Alutiiq
ARCHITECT ENGINEER, INC.
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Designed: COMARK	Date: 3-10-06
Drawn: LHM	Dwg Scale: 1:1
Reviewed: COMARK	Rev Scale: NTS
Sheet: FTR24520.0C	Rev: FTR24520.0C
Section: _____	Division: _____
Submittal: COMARK	Branch: _____
Drawn: _____	Design: FTR24520.0C

FORT RICHARDSON, ALASKA
FOR AIRBORNE COMBAT BRIGADE
BARACKS
CODE PLAN.1
AS-BUILT DRAWINGS

Reference Number: 20C
Sheet 49 of 50

A B C D E F G H



US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. W911MB-05-C-0009	
CONTRACTOR ALTIMA MGMT. CORP., LLC	
CITY ANCHORAGE	STATE ALASKA
Approved: _____ Date: _____	
PROJECT CONTRACTOR	RESPONSIBLE ENGINEER

Sym.	Action	Description	Date	Appvd

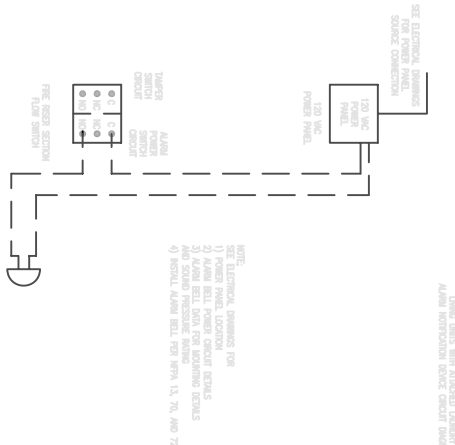
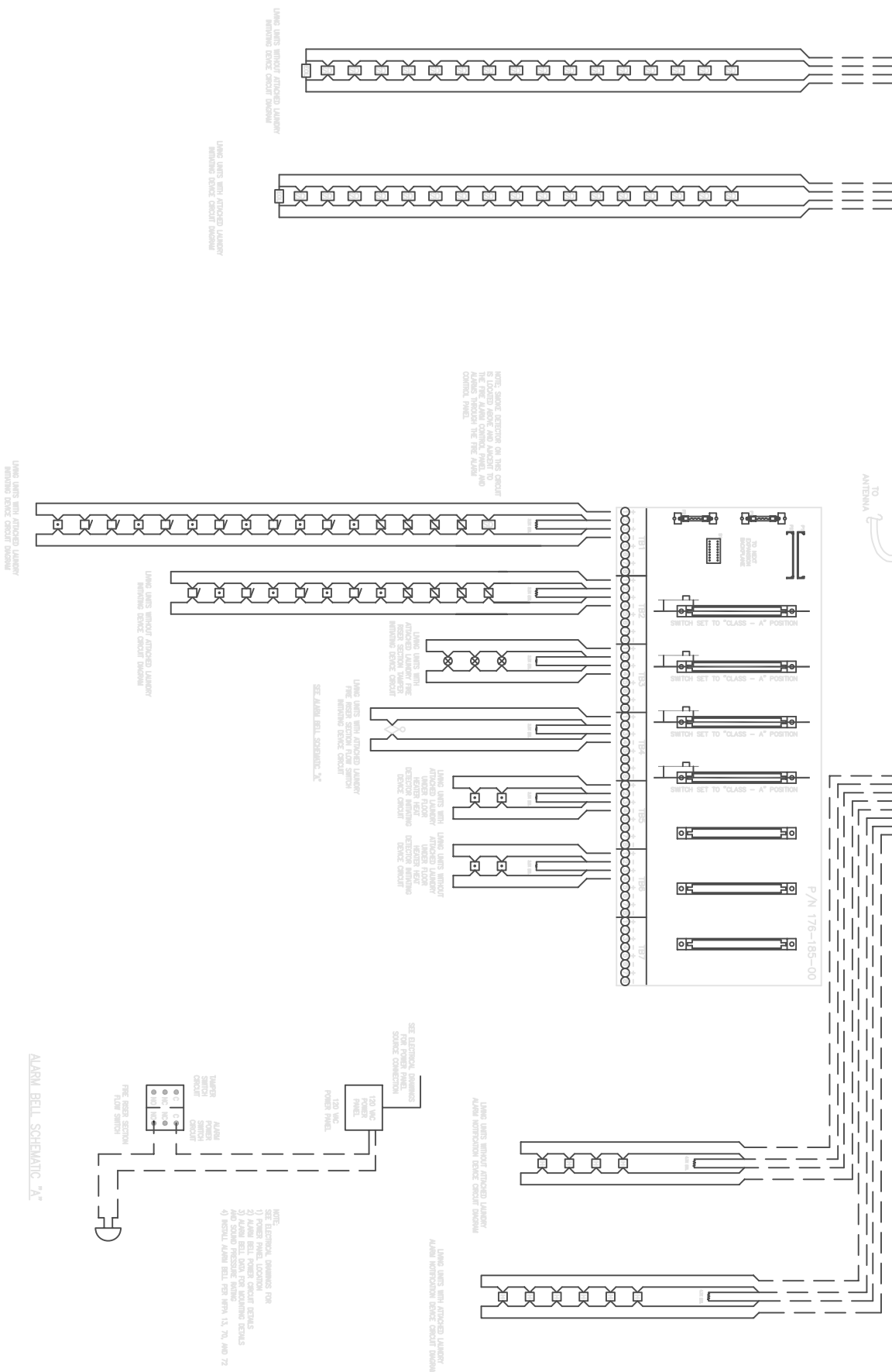
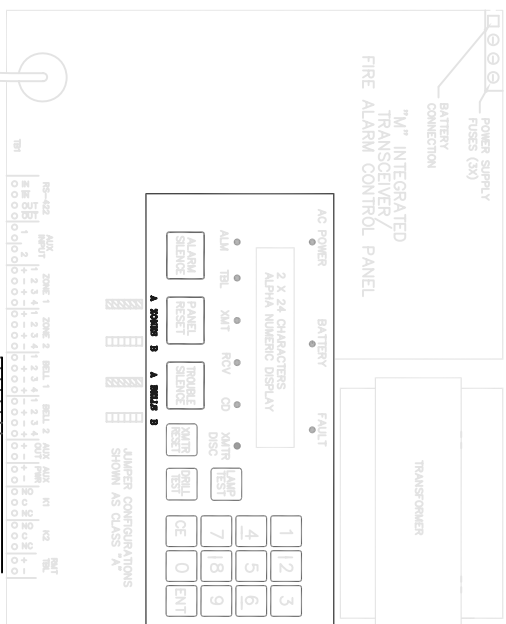
3201 G Street
Suite 700
Anchorage, AK
99503
Manufacturing Contractors LLC
907.222.9900


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Designed: COMARK	Date: 3-10-06
Drawn: LHM	Rev Scale: 1:1
Reviewed: COMARK	Rev Scale: NTS
Submitted: COMARK	Rev: FTR24520.0D
Sheet: 50 of 50	Drawing File: 05-1-751-11-07

FOR RICHARDSON ALASKA
FT 245 INTERIM FACILITIES
FOR AIRBORNE COMBAT BRIGADE
BARACKS
CODE PLAN 1
AS-BUILT DRAWINGS

Reference Number:
20D
Sheet 50 of 50

[illegible]






















CONTRACT NO.	W911KB-05-C-0009
CONTRACTOR	ALTIMA MAR. CON. LLC
CITY	ANCHORAGE
STATE	ALASKA
Recommended:	Approved:
PRIME CONTRACTOR	RESIDENT ENGINEER

Date:




US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

DRAWING INDEX				
PAGE NO.	MULT PG.	LA/REF#	DESCRIPTION	
1		EXP CODE CIV	GENERAL NOTES & SCHEDULES	
2			CODE PLAN 1	
3			ELEVATION DRAININGS	
4	4A - 4B		CROSS SECTIONAL	
5	5A - 5C		FLOOR PLAN	
6			FIXTURE PLAN	
7	7A - 7C		ELECTRICAL	
8	8A - 8C		PLUMBING	
9			CHAISSE	
10	10A - 10B		FLOOR DECK	
11			FLOOR FRAMING	
12	12A - 12B		ROOF FRAMING	
13			FOUNDATION 1	
14				
15	15A - 15C		WALL DRAININGS	
16	16A - 16E		CABINET DRAININGS	
17	17A - 17B		ELECTRON MECHANICAL	
18			RESERVED	
19	19A - 19C		SPRINKLER SYSTEM DRAININGS	
20	20A - 20D		ROOF TRUSS APPROVALS	
21				
22				
23				

NOTES:	
1.	2 X 6 EXTERIOR WALL FRAMING, SIDING AND/OR SHEATHING NOT INCLUDED IN EXTERIOR WALL THICKNESS.
2.	RANGE HOOD IS VENTED TO THE EXTERIOR SIDEWALL.
3.	BATHROOM VENT FANS ARE DUCTED TO EXTERIOR.
4.	HOUSES ARE CRIMM, SPACE ACCESSABLE.
5.	ALL BEDROOM RECEPTALS ARE ARC FAULT PROTECTED.
FLOOR PLAN	
ELECTRICAL SYMBOLS	
	= JUNCTION BOX
	= 20 AMP RECEPTACLE
	= 220 VOLT RECEPTACLE
	= 15 OR 20 AMP SWITCH
	= STD OR GFI BATH FAN
	= FURNACE THERMOSTAT
	= TELEPHONE JACK
	= SMOKE DETECTOR
	= ELECTRICAL MAIN PANEL BOX
	= WALL MOUNTED LIGHT
	= 7 FT 2 BULB FLO LIGHT, SURFACE, PULL DOWN, PULL CHAIN LIGHT
	= UNDER FLOOR PULL CHAIN LIGHT
	= SERVICE PULL CHAIN LIGHT
	= DOOR BELL SWITCH
	= DOOR BELL 4' AF
	= CEILING MOUNTED LIGHT
	= CEILING MOUNTED RECESSED LIGHT
	= TEMP / RISE DETECTOR
	= CO DETECTOR MANUO 725-311-00
	= PULL STATION / FIRE
	= SPRINKLER HORN ASSY
	= EXIT EMERGENCY LIGHTING
	= 90° WALL HRING
	= SWITCH WIRING

RICHARDSON BUNK UNITS – GENERAL	
ROOF LIVE LOAD	40g ROOF LIVE LOAD (50g SNOW LOAD)
ROOF DEAD LOAD	15g PER SQUARE FEET
SEISMIC ZONE	SEISMIC ZONE D
WIND SPEED	115 MPH , EXPOSURE C
CLIMATE ZONE	ASHRAE, ANCHORAGE, ALASKA
FLOOR LIVE LOADS	FLOOR LIVE LOADS = 100 PSF, 12 PSF DEAD
NUMBER OF STOREYS	1 STORY
ALLOWABLE WIDTHS	14'-0" (EXCLUDING SHEATHINGS AND SOFTSIS)
OVERHANGS	0" MAXIMUM (EXCLUDING METAL ROOF OVERLAP)
OSG/PLANCY/GRUP	R-2
CONSTRUCTION TYPE	TYPE V, WOOD-FRAMED, NON RATED
UTILITIES	ELECTRIC, GAS, WATER AND DRAIN
LOCATION	FORT RICHARDSON, ANCHORAGE, ALASKA
INTERNATIONAL BUILDING CODE 2003 EDITION	
INTERNATIONAL MECHANICAL CODE	
NATIONAL ELECTRICAL CODE	
LIFE SAFETY CODE 101	
UFC 1-200-01	
UFC 3-600-01	
2003 FIRE PROTECTION	
NEPA 13 R	
NEPA 101	
SQUARE FOOTAGE REQUIRED	1750 SF
# OF MODELS	1 MODELS
# OF BEDROOMS	3
# OF BATHS	1
FLOOR WIDTHS	13'-8"
ROOF PITCH	2 1/2:12
EAVE DETAIL	2" MAX. STEEL ROOF OVERHANG
WALL HEIGHT 1 LEVEL	8'-0"
EXTERIOR ELEVATION	SEE ELEVATIONS

[illegible]

 US ARMY CORPS OF ENGINEERS ALASKA DISTRICT		CONTRACT NO. W911KB-05-C-0009 CONTRACTOR ALUTIA MAR. CON. LLC CITY ANCHORAGE STATE ALASKA		Recommended: _____ Approved: _____ Date: _____		PRIME CONTRACTOR RESIDENT ENGINEER	
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3201
Suite
9930
Aurora
Manufacturing Contractors LLC
Alltiff
907.2

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BUILDING SYSTEMS, INC.

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[illegible]

NOTE:

REFER TO PROJECT FTR244
DRAWINGS FOR CIVIL UTILITY
THE-IN CONNECTIONS.

NOTE: 64' IS SAME EXCEPT WITHOUT LAUNDRY ROOM & SPRINKLER ROOM. SEE 7D HERE IN FOR 64' & 76' POWER 1 DIAGRAMS. SEE 8B FOR 64' FOR CRAWLSPACE HEATER.

BEARACKS & LUNDY



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTHIO INV. CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended:	Approved:
DATE:	DATE:

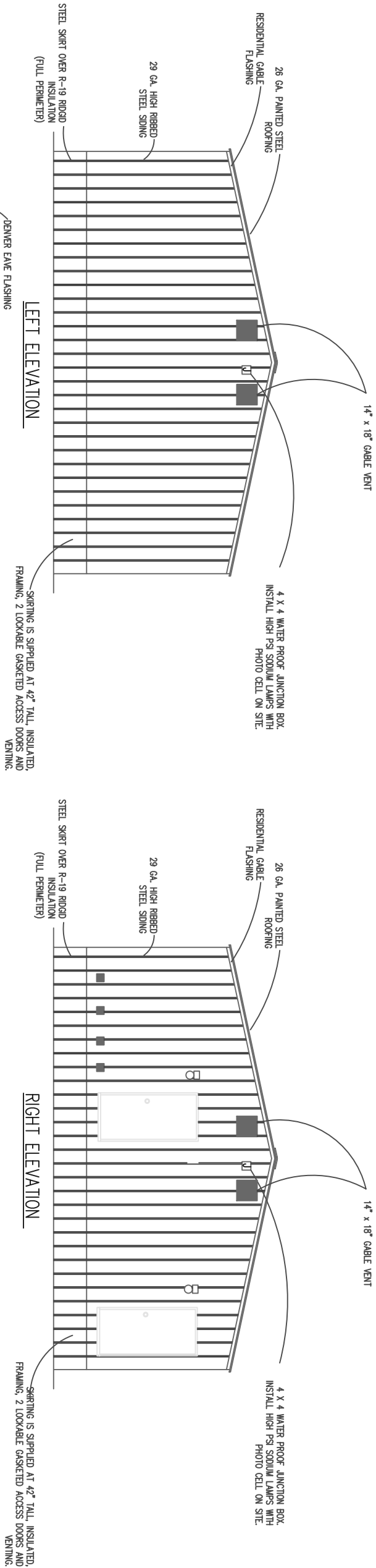
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3501 C Street
Anchorage, AK 99503
Manufacturing Contractors LLC
907.222.9000

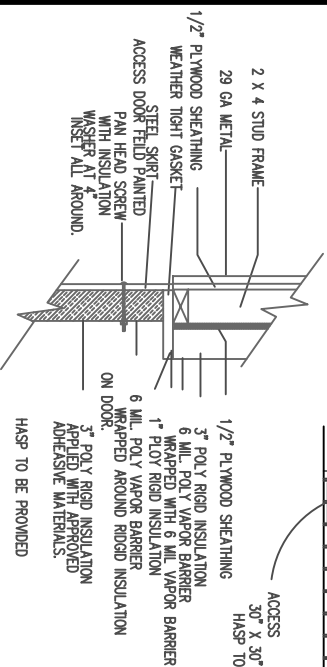
COMARK
3505 C Street
Anchorage, AK 99503
As-Built Record
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Drawn: LMB	Checked: LMB	Date: 11-13-08
Revised: 11/13/08	Revised: 11/13/08	Revised: 11/13/08
Scale: 1/8"=1'-0"	Scale: 1/8"=1'-0"	Scale: 1/8"=1'-0"
File: FTR2453.0	File: FTR2453.0	File: FTR2453.0
Sheet: 1 of 1	Sheet: 1 of 1	Sheet: 1 of 1
Project: 76' BARACKS/LAUNDRY	Project: 76' BARACKS/LAUNDRY	Project: 76' BARACKS/LAUNDRY
Client: FORT RICHARDSON, ALASKA	Client: FORT RICHARDSON, ALASKA	Client: FORT RICHARDSON, ALASKA
Contract: W911KB-05-0009	Contract: W911KB-05-0009	Contract: W911KB-05-0009

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
76'_BARACKS/LAUNDRY
CODE_PLAN_1
AS_BUILT_DRAWINGS



- TR. VENT STACK KEY
- FURNACE MAKE UP AIR
 - FURNACE EXHAUST
 - 40-GAL. WATER HEATER COMB/EXHAUST
 - EXHAUST FAN (BATH, COMMON AREA, MECH. RM)
 - PLUMBING VENTS
 - 100 GAL. WATER HEATER COMB/EXHAUST





CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTITUDE MGMT. CO., LLC	
CITY	ANCHORAGE
STATE	ALASKA
DATE:	
RECOMMENDED BY	APPROVED BY
PRIME CONTRACTOR	RESIDENT ENGINEER

Sym.	Action	Description	Date	Appvd

Alutiq

3201 C Street
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907.222.9500

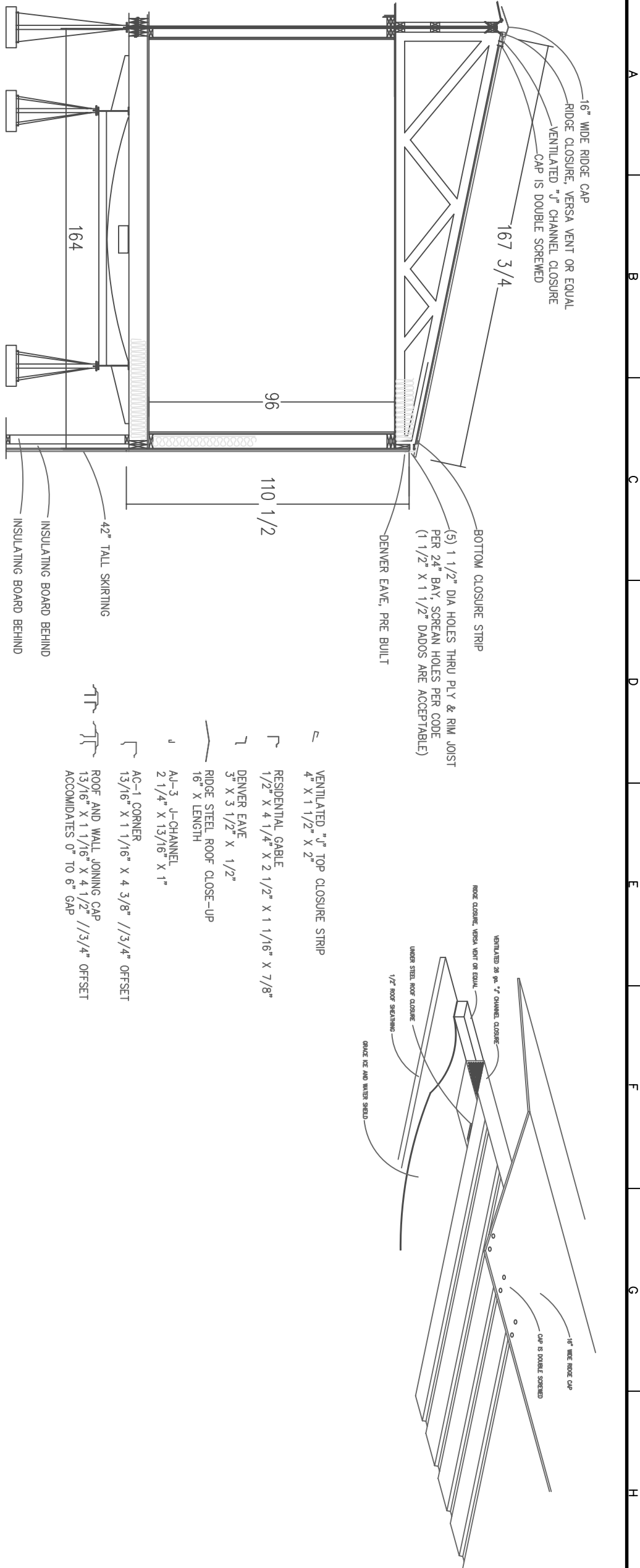
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Consulting Engineers, Inc.
3505, CHALKY BEACH RD. SYSTEMS, INC.
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Drawn: JLMG
Checked: JLMG
Reviewed: JLMG
Submitted: 05/11/07

Project: FTR245-05-0009
Title: FTR245-05-0009
Drawing #: AS-BLT-221-11-07

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
76_BARACKS/LAUNDRY
CODE_PLAN_1
AS_BUILT_DRAWINGS



SPECIFIED FASTENER	REQUIRED PENETRATION	DESIRED FASTENER																	
		16 GA STAPLE	15 GA STAPLE	14 GA STAPLE	13 GA STAPLE	12 GA STAPLE	.091 d NAIL	.097 d NAIL	.105 d NAIL	.113 d NAIL	.120 d NAIL	.128 d NAIL	.131 d NAIL	.148 d NAIL	.162 d NAIL	#8 SCREW	#10 SCREW	#12 SCREW	
16 GA STAPLE	1.00 IN.	1.00	0.81	0.69	0.57	0.46	1.13	1.00	0.90	0.83	0.75	0.68	0.67	0.55	0.49	0.48	0.36	0.28	
15 GA STAPLE	1.00 IN.	1.23	1.00	0.85	0.70	0.57	1.39	1.23	1.11	1.02	0.93	0.84	0.82	0.68	0.60	0.60	0.44	0.34	
14 GA STAPLE	1.00 IN.	1.44	1.17	1.00	0.82	0.66	1.63	1.44	1.30	1.19	1.09	0.99	0.96	0.80	0.70	0.70	0.52	0.40	
13 GA STAPLE	1.00 IN.	1.77	1.44	1.23	1.00	0.81	2.00	1.77	1.60	1.46	1.33	1.21	1.18	0.98	0.86	0.86	0.64	0.49	
12 GA STAPLE	1.125 IN.	2.17	1.77	1.51	1.23	1.00	2.46	2.17	1.97	1.79	1.64	1.49	1.45	1.20	1.06	1.05	0.78	0.61	
.091 DIA. NAIL	1.00 IN.	0.88	0.72	0.61	0.50	0.41	1.00	0.88	0.80	0.73	0.67	0.61	0.59	0.49	0.43	0.43	0.32	0.25	
.097 DIA. NAIL	1.125 IN.	1.00	0.81	0.69	0.57	0.46	1.13	1.00	0.90	0.83	0.75	0.68	0.67	0.55	0.49	0.48	0.36	0.28	
.105 DIA. NAIL	1.25 IN.	1.25	0.90	0.77	0.63	0.51	1.25	1.11	1.00	0.91	0.83	0.76	0.74	0.61	0.54	0.54	0.40	0.31	
.113 DIA. NAIL	1.25 IN.	1.21	0.98	0.84	0.68	0.56	1.37	1.21	1.10	1.00	0.91	0.83	0.81	0.67	0.59	0.59	0.44	0.34	
.120 DIA. NAIL	1.375 IN.	1.33	1.08	0.92	0.75	0.61	1.50	1.33	1.20	1.10	0.91	0.88	0.88	0.73	0.64	0.64	0.48	0.37	
.128 DIA. NAIL	1.50 IN.	1.46	1.19	1.01	0.83	0.67	1.65	1.46	1.32	1.21	1.10	1.00	0.97	0.81	0.71	0.71	0.53	0.41	
.131 DIA. NAIL	1.50 IN.	1.50	1.22	1.04	0.85	0.69	1.70	1.50	1.36	1.24	1.13	1.03	1.00	0.83	0.73	0.73	0.54	0.42	
.148 DIA. NAIL	1.625 IN.	1.81	1.47	1.25	1.02	0.83	2.04	1.81	1.64	1.49	1.36	1.24	1.21	1.00	0.88	0.88	0.65	0.50	
.162 DIA. NAIL	1.75 IN.	2.06	1.67	1.43	1.16	0.95	2.33	2.06	1.86	1.70	1.55	1.41	1.37	1.14	1.00	1.00	0.74	0.57	
#8 WOOD SCREW	1.148 IN.	2.07	1.68	1.43	1.17	0.95	2.33	2.07	1.87	1.70	1.56	1.41	1.38	1.14	1.00	1.00	0.74	0.58	
#10 WOOD SCREW	1.33 IN.	2.78	2.26	1.93	1.57	1.28	3.14	2.78	2.51	2.29	2.09	1.90	1.85	1.54	1.35	1.34	1.00	0.77	
#12 WOOD SCREW	1.512 IN.	3.58	2.91	2.49	2.03	1.65	4.05	3.58	3.24	2.96	2.70	2.45	2.39	1.98	1.74	1.74	1.29	1.00	

NOTES:

1. SUBSTITUTION METHODS:

A. WHEN QUANTITIES ARE SPECIFIED MULTIPLY THE QUANTITY OF "SPECIFIED FASTENERS" BY THE FACTOR FROM THE TABLE FOR THE "DESIRED FASTENER" TO ARRIVE AT THE EQUIVALENT NUMBER OF FASTENERS.

EXAMPLE: DRAWING SPECIFIES (7) 16 GA STAPLES. TO FIND THE EQUIVALENT NUMBER OF .162 d NAILS MULTIPLY 7 BY THE FACTOR OF .49 WHICH EQUALS 3.43 OR 4 NAILS.

B. WHEN SPACINGS ARE SPECIFIED DIVIDE THE SPECIFIED SPACING FOR THE "SPECIFIED FASTENER" BY THE FACTOR FROM THE TABLE FOR THE "DESIRED FASTENER" TO ARRIVE AT THE EQUIVALENT SPACING.

EXAMPLE: DRAWING SPECIFIES .131 d NAILS AT 8" OC. TO FIND THE EQUIVALENT SPACING FOR 16 GA STAPLES DIVIDE 8" BY THE FACTOR OF 1.50 WHICH EQUALS 5.33" OC.

2. MINIMUM 3/4" SIDE MEMBER LUMBER IS REQUIRED.

NOTES:

1. FASTENERS MAY BE "TOED" PROVIDED THE FASTENER SPACING IS 2/3 OF THAT SPECIFIED AND QUANTITIES ARE MULTIPLIED BY 1.50.

2. CROWN OF STAPLE MAY BE IN ANY ORIENTATION UNLESS OTHER WISE SPECIFIED ON THE DRAWING.

3. NAILS MAY BE GUN OR COMMON PROVIDED THE CORRECT DIAMETER IS USED.

4. SEE DRAWING 010.10 FOR ADDITIONAL NOTES.

5. FASTENERS MUST HAVE THE MINIMUM PENETRATION AS SPECIFIED IN THE TABLE.

6. THIS DRAWING IS APPLICABLE TO Laterally Loaded Fasteners.



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTRIO WALK CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended: _____	
Approved: _____	
Date: _____	

Qty.	Action	Description	Date	Appvd

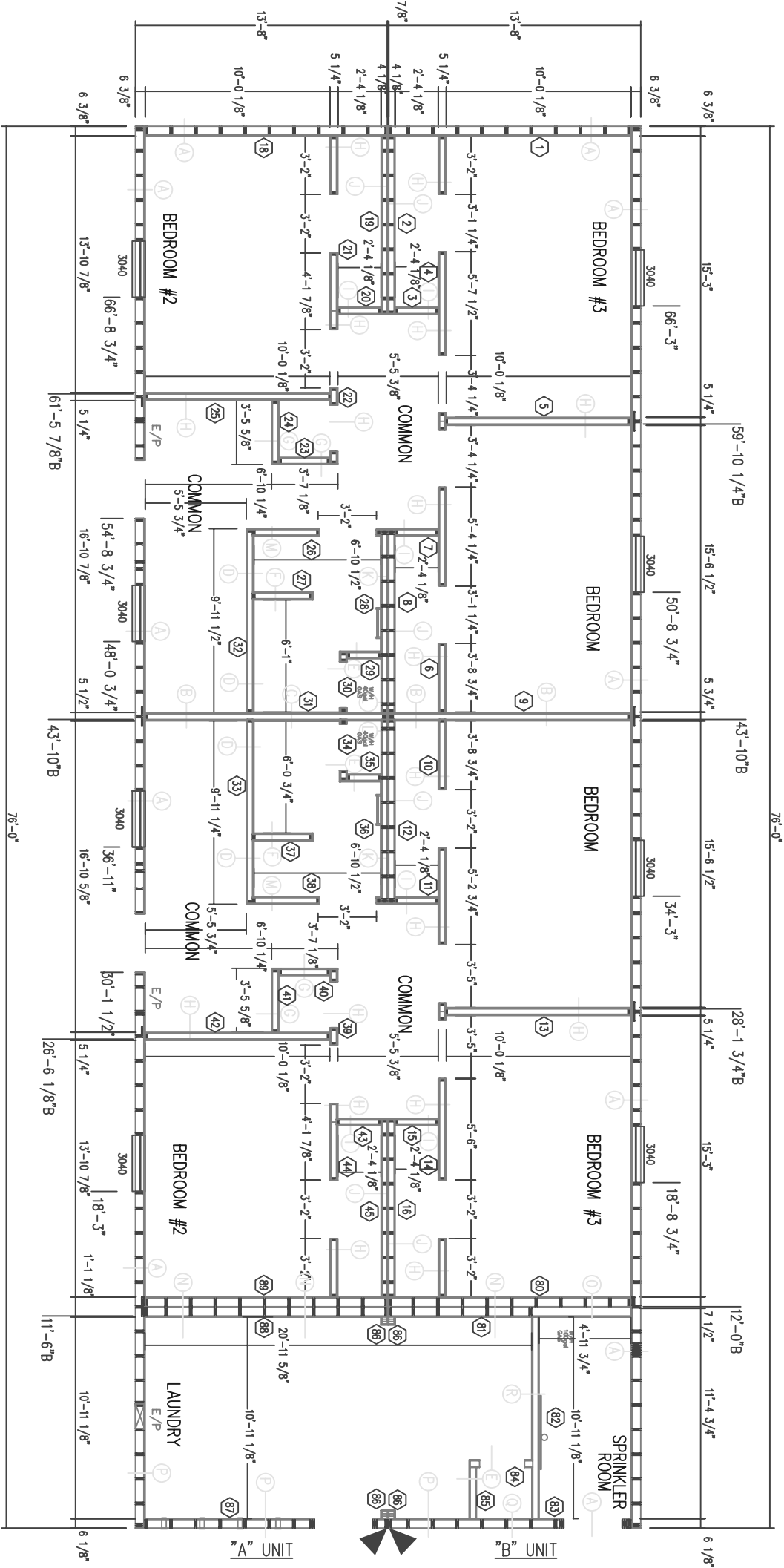
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Drawn: J. L. B.	Checked: J. L. B.	Date: 11-13-08
Plot Scale: 1:1	Plot: 1/8"=1'-0"	Sheet: 5A
File: FTR245.OA	Project: FTR245	Revision: 1
Drawn by: J. L. B.	Checked by: J. L. B.	Date: 11-13-08

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
76_BARACKS/LAUNDRY
CODE_PLAN_1
AS_BUILT_DRAWINGS

- EASTING SCHEDULE:
1. TOP PLATE AND BOTTOM PLATE TO STUDS: (3) EA. .131 x 3" NAILS OR (4) EA. 7/16" x 2 1/2" x 15ga. STAPLES.
 2. OUTSIDE TOP PLATE TO INSIDE TOP PLATE: .131 x 3" NAILS OR 7/16" x 2 1/2" x 16ga. STAPLES AT 12"o.c.
 3. DOUBLE STUDS: .131 x 3" NAILS AT 8"o.c. OR 7/16" x 2 1/2" x 15ga. STAPLES AT 5"o.c.
 4. TRIPLE HEADERS: .131 x 3" NAILS AT 8"o.c. ALONG EACH EDGE OR 7/16" x 2 1/2" x 15ga. STAPLES AT 12"o.c.
 5. HEADER TO STUD: (4) .131 x 3" NAILS OR (6) 7/16" x 2 1/2" x 15ga. STAPLES.
 6. BOTTOM PLATE FOR FLOOR RM.: .131 x 3" NAILS AT 8"o.c. OR 7/16" x 2 1/2" x 15ga. STAPLES AT 5"o.c.
 7. SIDING TO FRAMING: PER MANUFACTURERS INSTRUCTIONS.



- NOTES:
1. ALL EXTERIOR WALLS ARE 2x6 WITH DBL. 2x TOP PLATES AND SING. 2x BOTTOM PLATES.
 2. ALL WARRAGE WALLS ARE 2x4 WITH DBL. 2x TOP PLATES AND SING. 2x BOTTOM PLATES.
 3. ALL INTERIOR WALLS ARE 2x4 WITH DBL. 2x TOP PLATES AND SING. 2x BOTTOM PLATES.



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTHIO MAN. CON., LLC	
CITY	ANCHORAGE
STATE	ALASKA
APPROVED:	DATE:
RECOMMENDED BY:	

3m.	Action	Description	Date	Apprv

Alutiq

3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

ALUTIQ

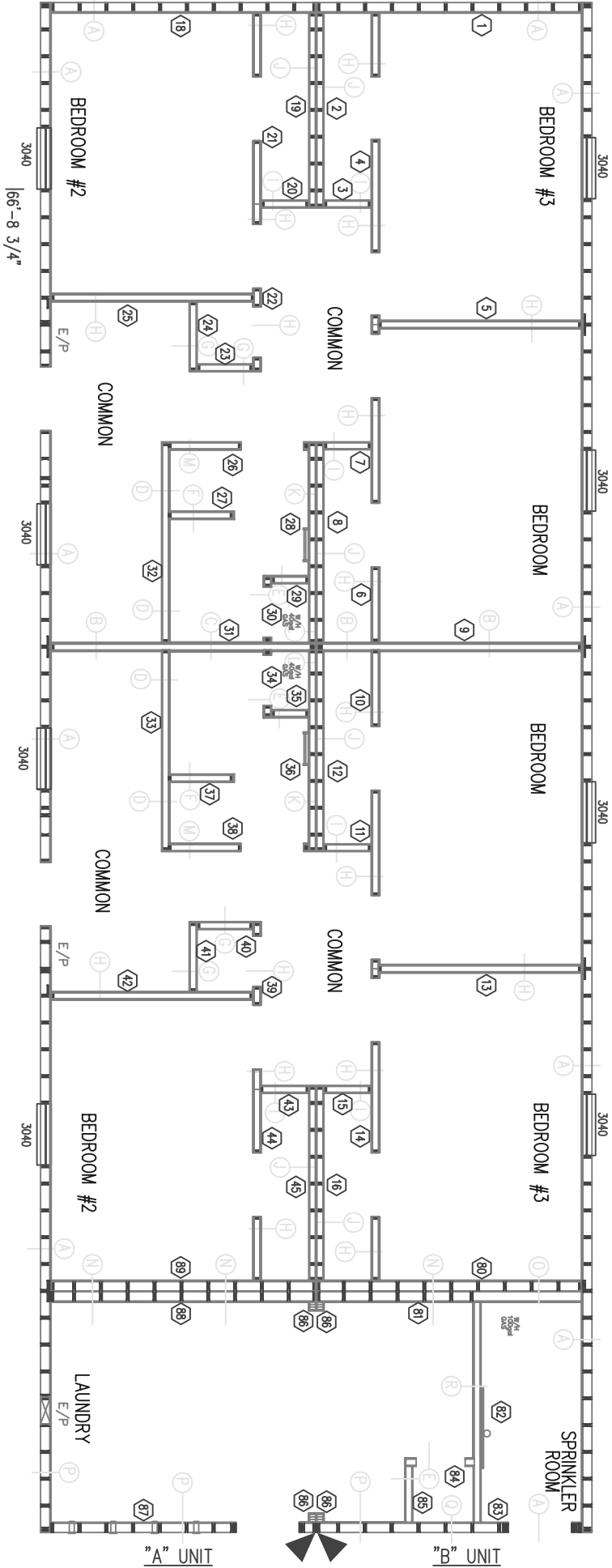
Manufacturing Contractors LLC

W911KB-05-0009

Drawn: 02/09/08
Checked: 02/09/08
Reviewed: 02/09/08
Submittal: 02/09/08
Drawing #: AS-BL-1-221-11-07

F0RT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
76_BARBACKS/LAUNDRY
AS_BUILT_DRAWINGS

- WALL COMPOSIT LEGEND
- (A) EXTERIOR WALLS:
5/8" VINYL COVERED TYPE X GYPSUM
1/4" GYPSUM WALL PANEL
6 MILL POLY VAPOR BARRIER
R-19 FIBERGLASS BATT INSULATION
2 X 6 FRAMING
15/32" CDX / OSB PLY
TYVEK EXTERIOR HOUSE WRAP
STEEL EXTERIOR SIDING
- (B) DUPLEX SEPERATION WALLS:
5/8" VINYL COVERED TYPE X GYPSUM
1/4" GYPSUM WALLBOARD
15/32" PLYWOOD SHEARWALL SHEATHING
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
1/4" GYPSUM WALL BOARD
5/8" VINYL COVERED TYPE X GYPSUM
- (C) AT BATH DUPLEX SEP. WALLS USE:
1/8" FRP PANELS
5/8" TYPE X GYPSUM
15/32" PLYWOOD SHEARWALL SHEATHING
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
5/8" TYPE X GYPSUM
1/8" FRP PANELS
(D) AT BATHROOM PARTY WALLS:
5/8" VINYL COVERED GYPSUM
R-11 FIBERGLASS BATT INSULATION
2 X 4 FRAMING 16" O.C.
5/8" PLYWOOD OR OSB
1/8" FRP PANELS
- (E) AT BATH WATER HEATER WALLS:
5/8" TYPE X GYPSUM
R-11 FIBERGLASS BATT INSULATION
2 X 4 FRAMING 16" O.C.
5/8" PLYWOOD OR OSB
1/8" FRP PANELS
(F) AT SHOWER WALL USE:
1/8" FRP PANELS
5/8" PLYWOOD OR OSB
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
5/8" PLYWOOD OR OSB
1/8" FRP PANELS
(G) AT FLURAGE WALLS:
5/8" TYPE X GYPSUM
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
5/8" VINYL COVERD GYPSUM
- (H) SOUND PROOF BEDROOM WALLS
5/8" VINYL COVERED TYPE X GYPSUM
1/4" GYPSUM WALL BOARD
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
1/4" GYPSUM WALLBOARD
5/8" VINYL COVERED TYPE X GYPSUM
(I) NON SOUND RATED WALLS
5/8" VINYL COVERED GYPSUM
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
7/16" PLYWOOD EXTERIOR MATE LINE SHEATHING



- (K) NON RATED MARRIAGE WALLS AT BATHROOMS:
1/8" FRP PANELS
5/8" PLYWOOD OR OSB
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
7/16" PLYWOOD EXTERIOR MATE LINE SHEATHING
- (L) NON RATED MARRIAGE WALLS AT WATER HEATER:
5/8" TYPE X GYPSUM
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
7/16" PLYWOOD EXTERIOR MATE LINE SHEATHING
- (M) NON RATED BATHROOM / HALL:
1/8" FRP PANELS
5/8" PLYWOOD OR OSB
2 X 4 FRAMING 16" O.C.
R-11 FIBERGLASS BATT INSULATION
5/8" VINYL COVERED GYPSUM
- (N) PARTITION AT BEDROOM & LAUNDRY ROOM:
5/8" TYPE X GYPSUM
1/4" GYPSUM
2 X 6 FRAMING 16" O.C.
R-19 FIBERGLASS BATT INSULATION
1/2" PLYWOOD OR OSB SHEATHING
2 X 6 FRAMING 16" O.C.
5/8" TYPE X GYPSUM SUBSTRATE
1/8" FRP PANELS
(O) PARTITION AT BEDROOM & SPRINKLER ROOM
5/8" VINYL COVERED TPX X GYPSUM
1/4" GYPSUM WALL BOARD
2 X 6 FRAMING 16" O.C.
1/2" PLYWOOD OR OSB SHEATHING
5/8" VINYL COVERED TYPE X GYPSUM
(P) SIDEWALL & ENDWALL AT LAUNDRY ROOM
1/4" FRP PANELS
5/8" TYPE X GYPSUM
6 MILL POLY VAPOR BARRIER
2 X 6 FRAMING 16" O.C.
R-19 FIBERGLASS INSULATION BATTS
15/32" CDX / OSB PLY
TYVEK EXTERIOR HOUSE WRAP
STEEL EXTERIOR SIDING
- (Q) LAUNDRY W/H AT ENDWALL
5/8" TYPE X GYPSUM
6 MILL POLY VAPOR BARRIER
2 X 6 FRAMING 16" O.C.
R-19 FIBERGLASS INSULATION BATTS
15/32" CDX / OSB PLY
TYVEK EXTERIOR HOUSE WRAP
STEEL EXTERIOR SIDING
(R) LAUNDRY W/H TO SPRINKLER ROOM
1/4" FRP PANELS
5/8" TYPE X GYPSUM
2 X 4 FRAMING 16" O.C.
5/8" VINYL COVERED TYPE X GYPSUM

FLOOR PLAN



CONTRACT NO. W911KB-05-C-0009		CONTRACTOR ALUMINUM MAN. CO., LLC		CITY ANCHORAGE		STATE ALASKA	
RECOMMENDED:		APPROVED:		DATE:		PRIME CONTRACTOR RESIDENT ENGINEER	

3207
Suite
And
9856
Manufacturing Contractors LLC
Alutia

[illegible]

Reference
number:
5C

Sheet 9 of 50

FASTENING SCHEDULE

1. TOP PLATE AND BOTTOM PLATE TO STUDS: (3) EA. $1/31 \times 3"$ NAILS OR (4) EA. $7/16" \times 2 \frac{1}{2}" \times 156A$. STAPLES AT 5° OR 12°.

2. OUTSIDE TOP PLATE TO INSIDE TOP PLATE: $1/31 \times 3"$ NAILS OR $7/16" \times 2 \frac{1}{2}" \times 156A$. STAPLES AT 12° OR 15°.

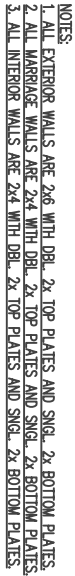
3. DOUBLE STUDS: $1/31 \times 3"$ NAILS OR $7/16" \times 2 \frac{1}{2}" \times 156A$. STAPLES AT 5° OR 12°.

4. TRIPLE HEADERS: $1/31 \times 3"$ NAILS AT 16° OR 18°. ALONG EACH EDGE OR $7/16" \times 2 \frac{1}{2}" \times 156A$. STAPLES AT 12° OR 15°.

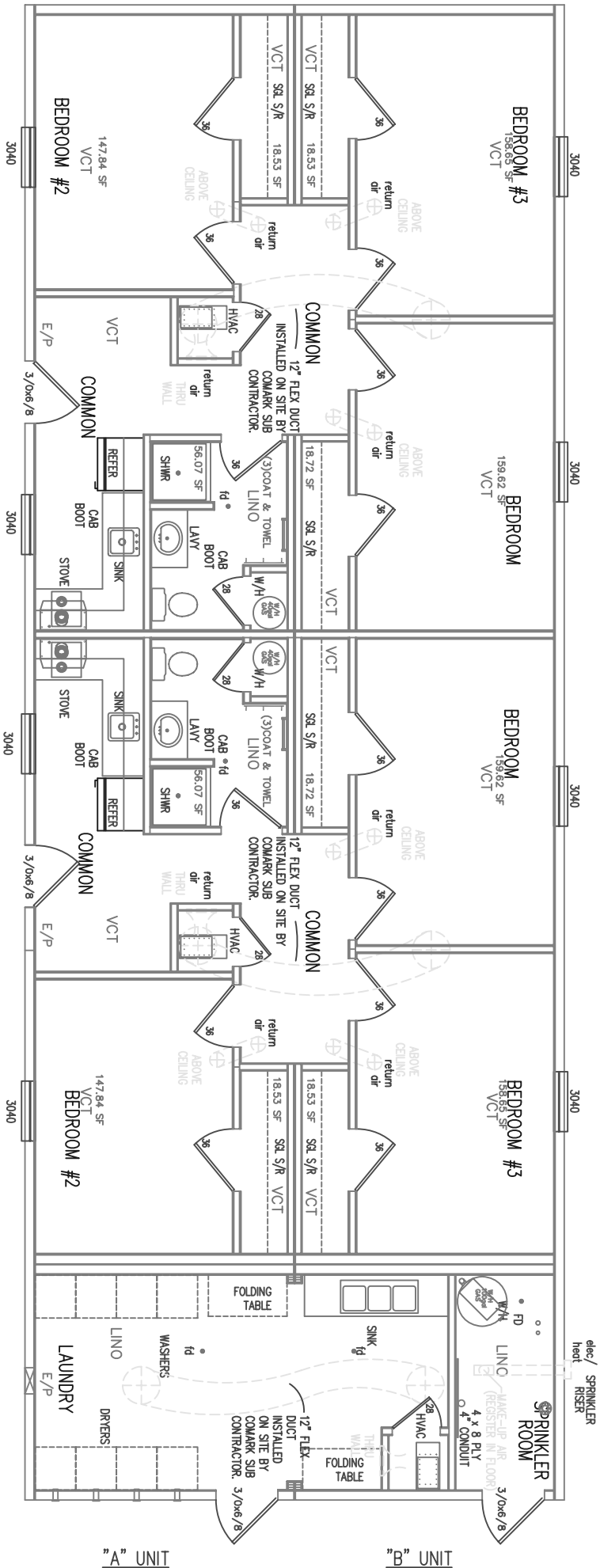
5. HEADER TO STUD: (4) $1/31 \times 3"$ NAILS OR (6) $7/16" \times 2 \frac{1}{2}" \times 156A$. STAPLES AT 12° OR 15°.

6. BOTTOM PLATE FOR FLOOR RIM: $1/31 \times 3"$ NAILS AT 8° OR $7/16" \times 2 \frac{1}{2}" \times 156A$. STAPLES AT 5° OR 12°.

7. SINGING TO FRAMING: PER MANUFACTURER'S INSTRUCTIONS.



NOTES:
1. ALL HEAT REGISTERS ARE 4" x 10".



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTHIO MAN. CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended by: _____	
Approved: _____	
Date: _____	

Qty.	Action	Description	Date	Approved

Alutia
Suite 700
Anchorage, AK
99501
907.222.9000

COMARK
Manufacturing Contractors LLC
907.222.9000

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Date: 05-13-08	Drawn: COMARK	Scale: 1/4" = 1'-0"
Plot Scale: 1/4" = 1'-0"	Plot: FTR2456.0	Sheet: 10 of 50
Project: FTR2456.0	Revision: 1	Revision: 1
Author: FTR2456.0	Checker: FTR2456.0	Reviewer: FTR2456.0
Drawn: FTR2456.0	Checked: FTR2456.0	Reviewed: FTR2456.0

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
76_BARACKS/LAUNDRY
CODE_PLAN_1
AS_BUILT_DRAWINGS



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTITUDE HALL CON., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended:	Approved:
PRIME CONTRACTOR	RESIDENT ENGINEER
Date:	

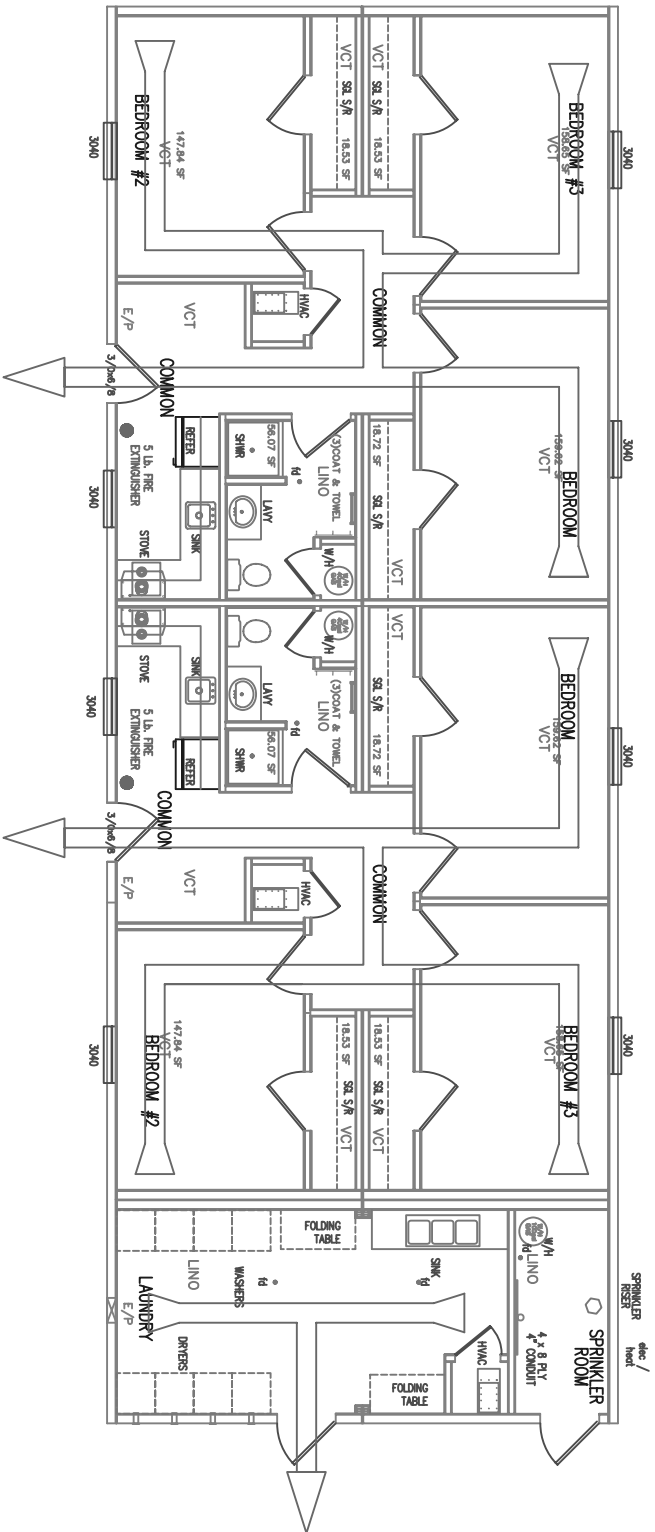
Sym.	Action	Description	Date	Appvd

3501 C Street
Anchorage, AK
99503
907.222.9500

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3505, COMARK BUILDING SYSTEMS, INC.
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Drawn: C. GARDNER	Checked: L. HARRIS	Reviewed: J. HARRIS	Submitted: J. HARRIS
Date: 04-13-08	Plot Scale: 1:1	Plot Scale: 1/8"=1'-0"	Drawing #: AS-BL-1-721-11-07
W911KB-05-0009			

FORT RICHARDSON ALASKA
FTR245_INTERIM_FACILITIES
FOR AIRBORNE COMBAT BRIGADE
76' BARACKS/LAUNDRY
AS_BUILT_DRAWINGS
CODE_PLAN_1



CODE ANALYSIS

PROJECT LOCATION: ANCHORAGE, ALASKA
ARCHITECT: GUERDON ENTERPRISES

REQUIRED DESIGN PARAMETERS:

SNOW LOAD: 40 PSF
FLOOR LOAD - LL: 100 PSF GENERAL AREA
100 PSF MECHANICAL AREA
FROST DEPTH: 2
WIND SPEED: 115 MPH
SEISMIC DESIGN CATEGORY "D"
WIND EXPOSURE "C"

BASIC REQUIREMENTS
MAJOR USE: RESIDENTIAL DOMATORY
OCCUPANCY LOAD: 6 UNIT RESIDENTIAL @ LAUNDRY

TYPE OF CONSTRUCTION
TYPE VB

FIRE RESISTANCE SEPARATION
A) 1-HOUR FIRE SEPARATION WALL NOT REQUIRED
B) MIN --' SEPARATION FROM PROPANE LINE

BUILDING HEIGHT
SINGLE STORY 13'5"

FIRE PROTECTION
AUTOMATIC FIRE SPRINKLER: YES-NPEA 13R
FIRE DETECTION SYSTEM: YES-NPEA 72

BASIC FLOOR AREA ALLOWED VERSUS PROPOSED FLOOR AREA

BUILDING	USE:	CONSTR.	BASIC ALLOW FLOOR AREA	PROPOSED FLOOR AREA
64' LIVING UNIT	R-2	V-B	1,750 SQ. FT.	1,750 SQ. FT.
LIVING W/LAUNDRY	R-2	V-B	2,078 SQ. FT.	2,078 SQ. FT.

AREAS - CONSTRUCTION TYPES, AREA SEPARATORS,
OCCUPANCY SEPARATIONS, FIRE WALLS - CODE ANALYSIS

TRAVEL DISTANCE, FOR GROUP R-2
ALLOWED WITHOUT SPRINKLER SYSTEM 200 FT.
ALLOWED WITH SPRINKLER SYSTEM 250 FT.
ACTUAL 50 FT.

ALLOWED COMMON PATH OF EGRESS
ACTUAL 75 FT.
50 FT.

BUILDING WITH 1 EXIT, SECTION 1008.2
OCCUPANCY MAX. STORY HEIGHT (OR DWELLING UNITS) PER FLOOR
AND TRAVEL DISTANCE
R-2 1 STORY 10 OCCUPANTS AND 75 FT. TRAVEL DISTANCE



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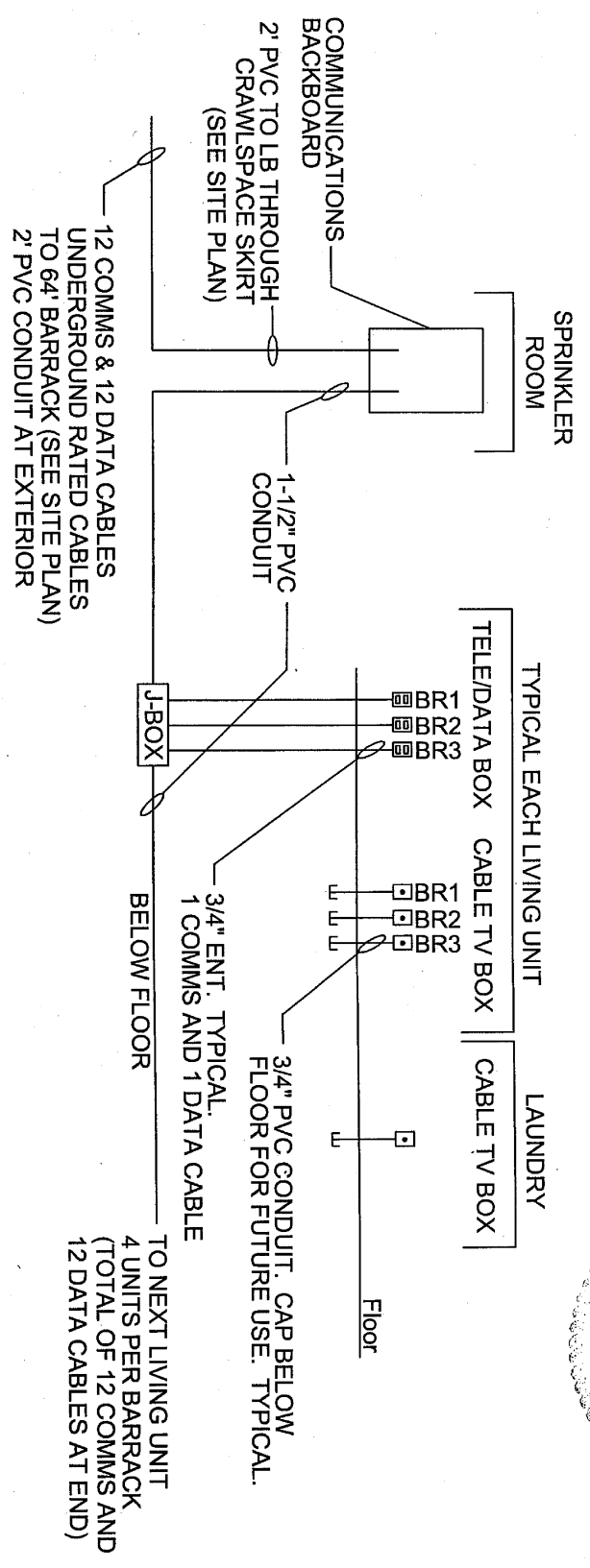
3201 C Street
Suite 700
Anchorage, AK
99503
907.222.9500

Drawn by: CLARK	THW	Drawn:
Dwg Scale: 1:1		
Plot Scale: NTS		
File: FTR2457.0D	Section	Sheet: 0049K
Branch	Branch	Branch
Drawing #: 10-001-11-00		
		W911KB-05-0009

FORT_RICHARDSON_ALASKA
 FTR245_INFRASTRUCTURE
 FOR_INTERIM_FACILITIES
 76_BARBARICKS
 CODE_PLAN_1
 AS_BUILT_DRAWINGS

Reference
number:
7D

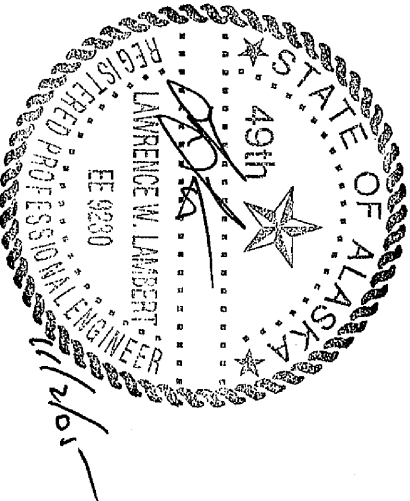
Sheet 15 of 50



GENERAL NOTES:

- 1) REFER TO PANELBOARD SCHEMATIC DRAWING E-701.
- 2) REFER TO DRAWING E-701 FOR CRAWL SPACE FURNACE INTERCONNECTION.
- 3) REFER TO PROJECT SPECIFICATIONS FOR ALL ELECTRICAL REQUIREMENTS.
- 4) REFER TO DRAWING E-701 FOR RECEPTACLE/ANTENNA BOX REQUIREMENTS. INTERCONNECT ANTENNA BOXES TO RESPECTIVE ABOVE-FLOOR RECEPTACLE.
- 5) INTERCONNECT THROUGH CRAWL SPACE AND TO RECEPTACLES WITH 3/4" EMT.
- 6) ALL INTERCONNECTIONS AND ROUTING MADE WITH MINIMUM 3/4" EMT.
- 7) REFER TO IN-PLACE PANELBOARD DRAWING.
- 8) SOME ELEMENTS ARE AS REQUIRED BY FIELD FORCES AND HAVE NOT BEEN VERIFIED.

NOTE: UNDERGROUND SPRINKLER PIPE BETWEEN BUILDINGS(SEE CIVIL DRAWINGS) AND WATER PIPES TO 10' BELOW GRADE HAVE SELF LIMITING HEAT TRACE ATTACHED. HEAT TRACE TO THESE PIPES HAS NO THERMOSTAT AND ARE HARDWIRED TO SECOND HEAT TRACE CIRCUIT. SEE 7B.



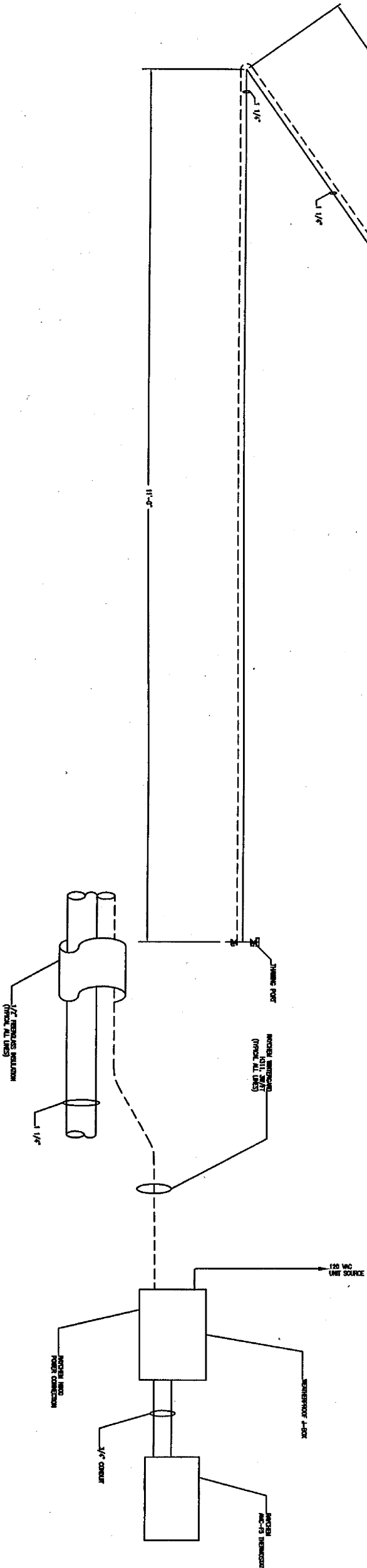
SYN.	ACTION	DESCRIPTION	DATE	APPROVED

CONTRACT NO.	W911KB-05-C-0009
CONTRACTOR	ALUTIQ MAN. CON., LLC
CITY	ANCHORAGE
STATE	ALASKA
DATE	
APPROVED	
RECOMMENDED	
PRIME CONTRACTOR	
REGISTERED ENGINEER	

2201 C Street Anchorage, AK 99503 907.222.9500 ALUTIQ Manufacturing Contractors LLC REGISTERED PROFESSIONAL ENGINEER LAWRENCE W. LAMBERT EE 9230 11/26/01	Drawn: LAM Reviewed: LAM Checked: LAM Date: 11-10-05 Proj. Scale: 1:1 Proj. Scale: NTS Drawing #: ETR2457.05 Sheet: 16 of 30 W911KB-05-0009
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FORT_RICHARDSON_ALASKA FTR245_INTERIM_FACILITIES FOR_AIRBORNE_COMBAT_BRIGADE 76_BARRACKS CODE_PLAN_1 AS_BUILT_DRAWINGS

Reference number: 7E Sheet 16 of 30



1 CRAWL SPACE HEAT TRACING

2 HEAT TRACING CONNECTION DETAIL

SCALE: NTS

SCALE: NTS

PLUMBING AND PIPING ABBREVIATIONS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PLUMBING ROUGH-IN SCHEDULE

		MINIMUM CONNECTION SIZE				UNLESS INDICATED OTHERWISE, ON PLANS	
		ROUGH-IN SIZE					
TAG	DESCRIPTION	WASTE	VENT	TRAP	CW	HW	REMARKS
WC-1	WATER CLOSET	3"	2"	INTERVAL	1/2"	---	FLOOR MOUNTED, GRABBY TANK LEVER TO BE ON WIDE SIDE OF STALL
LC-1	LAUNDRY- COUNTER	1-1/2"	1-1/2"	1-1/4"	1/2"	1/2"	OVAL, COUNTERTOP (DROP IN)
KS-1	SINK (SINGLE COMPARTMENT)	2"	1-1/2"	1-1/2"	1/2"	1/2"	SELF-RAIL COUNTERTOP
SS-1	SINK (THREE COMPARTMENT)	2"	1-1/2"	1-1/2"	1/2"	1/2"	3 COMPARTMENT, FREE STANDING
SH-1	SHOWER	2"	1-1/2"	1-1/2"	1/2"	1/2"	FLOOR MOUNTED
TP-1	TRAP PUMPER	---	---	---	1/2"	---	MOUNT ABOVE FLOOR IN WALL, WHERE POSSIBLE, WITH ACCESS DOOR.
ED-1	FLOOR DRAIN	2"	1-1/2"	2"	1/2" TP	---	5" ROUND GRATE
WB-1	WASHER HOOK-UP BOX	2"	1-1/2"	2"	1/2"	1/2"	FLUSH WALL MOUNTED, COORDINATE WITH RATED WALL CONSTRUCTION.
						MANUFACTURER & MODEL	
						VENNA VORTERS, DOWN-35177, TANK-35412	
						C-LAND MANUFACTURING, MODEL L-8825	
						STERLING PRO 25226-SS	
						ADVANCE TAPCO, 400 SERIES	
						LSCD 1363CT/36x36x72	
						PRO FLOW PFP2500	
						OATEY, 72063/72093	
						OATEY, #12-NO. 39751	

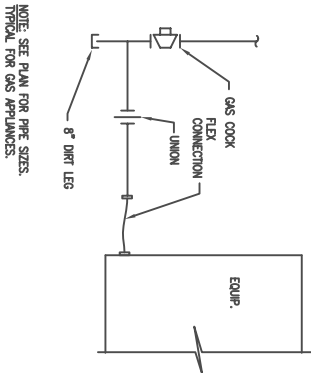
GAS FIRED WATER HEATER SCHEDULE

EQUIP. TAG	TYPE	SERVICE AREA	7" WC. PRESSURE INPUT	RECOVERY 90° RISE GPH	FIRST HOUR DELIVERY GPH	APPROX INCH	MANUFACTURER	MODEL #	REMARKS
WH-1	GAS	SEE PLANS	30,000	38,500	30.3		REED	WARRIOR 219000V	[1] [2] [3] [4] [5] [6]
WH-2	GAS	LAUNDRY	100	200,000	161	60	REED	GP-100-200	[1] [2] [3] [4] [5] [6]
						1,800			

- 1) PROVIDE COMPLETE FOR SEALED, VERTICAL, DIRECT VENT OPERATION.
- 2) PROVIDE ROOF TERMINATION ASSEMBLY FOR INTAKE/VENT.
- 3) PROVIDE FACTORY COMBUSTION AIR DUCT EXTENSION PIPE CONNECTION KIT
- 4) PROVIDE DWP PAN WITH 3/4" DRAIN TO BELOW FLOOR 6". PIPE TO SURFSTALL BY COMARK.
- 5) PROVIDE TAP PIPE FROM AND STUD TO 6" BELOW FLOOR. PIPE TO SURFSTALL BY COMARK.
- 6) PROVIDE WITH WAFS VENT AND COMBUSTION AIR KIT TO ROOF.

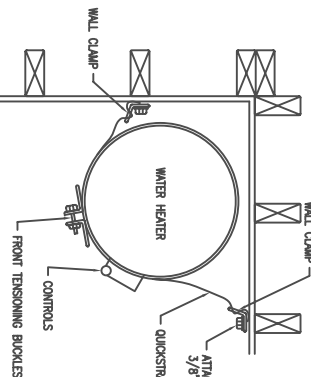
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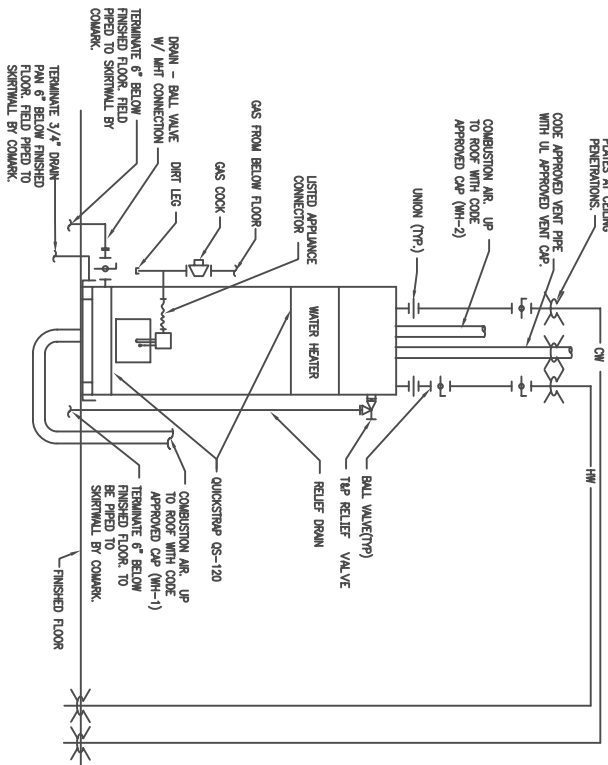
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
































































SECTION/DETAIL


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



PLUMBING AND PIPING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CA	COMPRESSED AIR		DIRECTION OF FLOW		DRAINAGE VALVE
CAO	CONDENSATE DRAIN		REDUCER		DOWNSCOUT NOZZLE
CA1	CLEAN DRY AIR		PPE DROP		FLOOR DRAIN ROUND OR SQUARE
CO2	CARBON DIOXIDE		PPE RISE		FLOW METER
CMR	CONDENSER WATER RETURN		PPE RISE		FLOW SWITCH
CMS	CONDENSER WATER SUPPLY		PPE RISE		FLOOR SINK
CMR	CHILLED WATER RETURN		PPE RISE		FLOW VALVE
CHMS	CHILLED WATER SUPPLY		PPE RISE		GAS METER
CM	DOMESTIC COLD WATER		PPE RISE		GLOBE VALVE
CM	DOMESTIC COLD WATER		PPE RISE		FLUE VALVE
CM	DOMESTIC COLD WATER		PPE RISE		INLINE TEMPERATURE GAUGE
CM	DOMESTIC COLD WATER		PPE RISE		PLUG VALVE
CM	DOMESTIC COLD WATER		PPE RISE		OUTSIDE STEEL AND TONE
CM	DOMESTIC COLD WATER		PPE RISE		RESINIC PUMP
CM	DOMESTIC COLD WATER		PPE RISE		TEMPERATURE CONTROL VALVE
CM	DOMESTIC COLD WATER		PPE RISE		THERMO WELL
CM	DOMESTIC COLD WATER		PPE RISE		
CM	DOMESTIC COLD WATER		PPE RISE		
CM	DOMESTIC COLD WATER		PPE RISE		
CM	DOMESTIC COLD WATER		PPE RISE		
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CM	DOMESTIC COLD WATER		PPE RISE		
CM	DOMESTIC COLD WATER		PPE RISE		
CM	DOMESTIC COLD WATER		PPE RISE		

NOTE: ALL SYMBOLS LISTED ABOVE MAY NOT APPEAR ON THESE DOCUMENTS

 US ARMY CORPS OF ENGINEERS ALASKA DISTRICT		CONTRACT NO. _____ W9114B-05-C-0009		CONTRACTOR ALUTIA INAL CON. LLC		CITY ANCHORAGE		STATE ALASKA		Date: _____	
RECOMMENDED BY: _____ APPROVED BY: _____		PRIME CONTRACTOR RESIDENT ENGINEER									

[illegible]

<p>3001 S Street Suite 700 Minneapolis, MN 55405 612.222.8900</p> <p>COMARK Manufacturing Corporation Ltd.</p> <p>3001 S Street Suite 700 Minneapolis, MN 55405 612.222.8900</p>	<p>3001 S Street Suite 700 Minneapolis, MN 55405 612.222.8900</p> <p>COMARK Manufacturing Corporation Ltd.</p> <p>3001 S Street Suite 700 Minneapolis, MN 55405 612.222.8900</p>
--	--

FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 76_BARRACKS
 CODE_PLAN_1
 AS-BUILT-DRAWINGS



US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO.	W11IB-05-C-0009
CONTRACTOR	ALTIVO MFG. CO., LLC
CITY	ANCHORAGE
STATE	ALASKA
DATE:	

Recommended by: _____
Approved: _____
RESIDENT ENGINEER

Rev.	Action	Description	Date	App'd
1	REVISION	AS-BUILT PER OWNER MARK-UP CHANGES		

Altivo
Manufacturing Contractors LLC
3201 C Street
Anchorage, AK 99503
907.222.9500

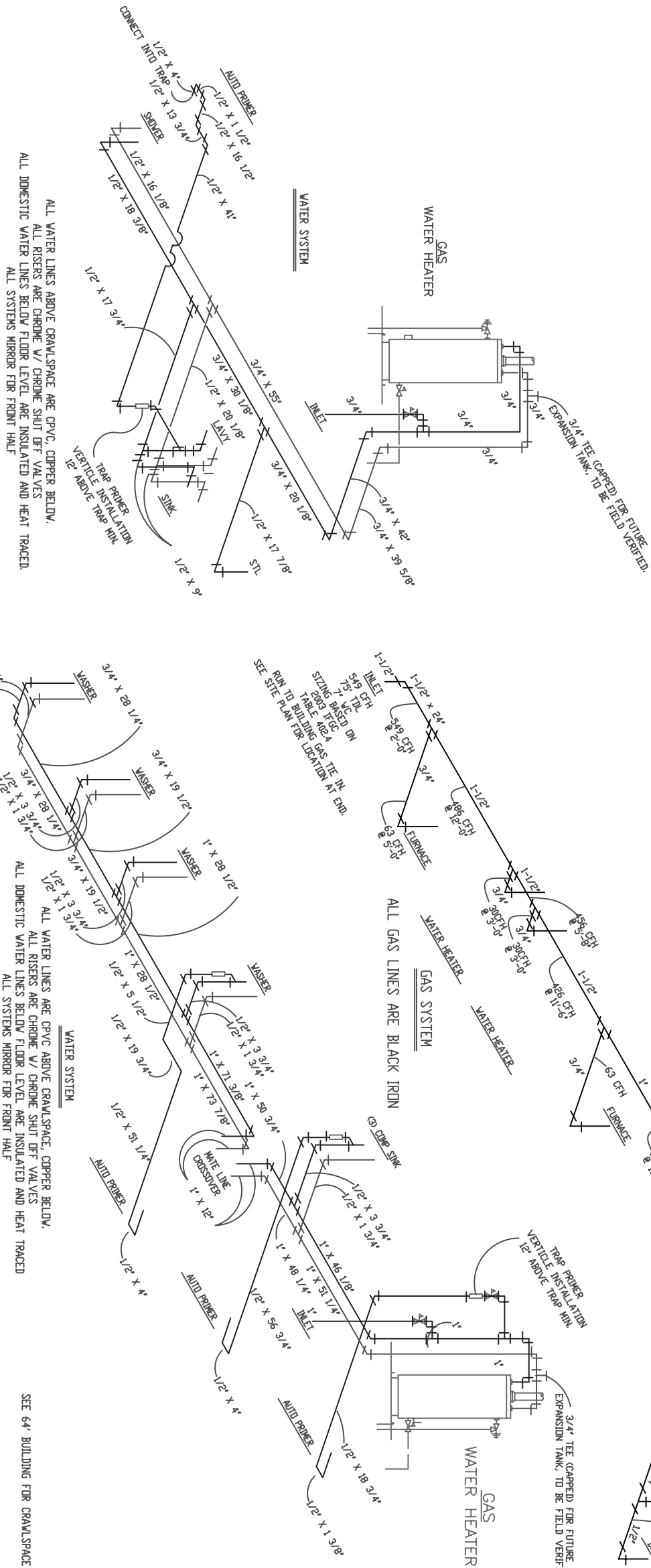
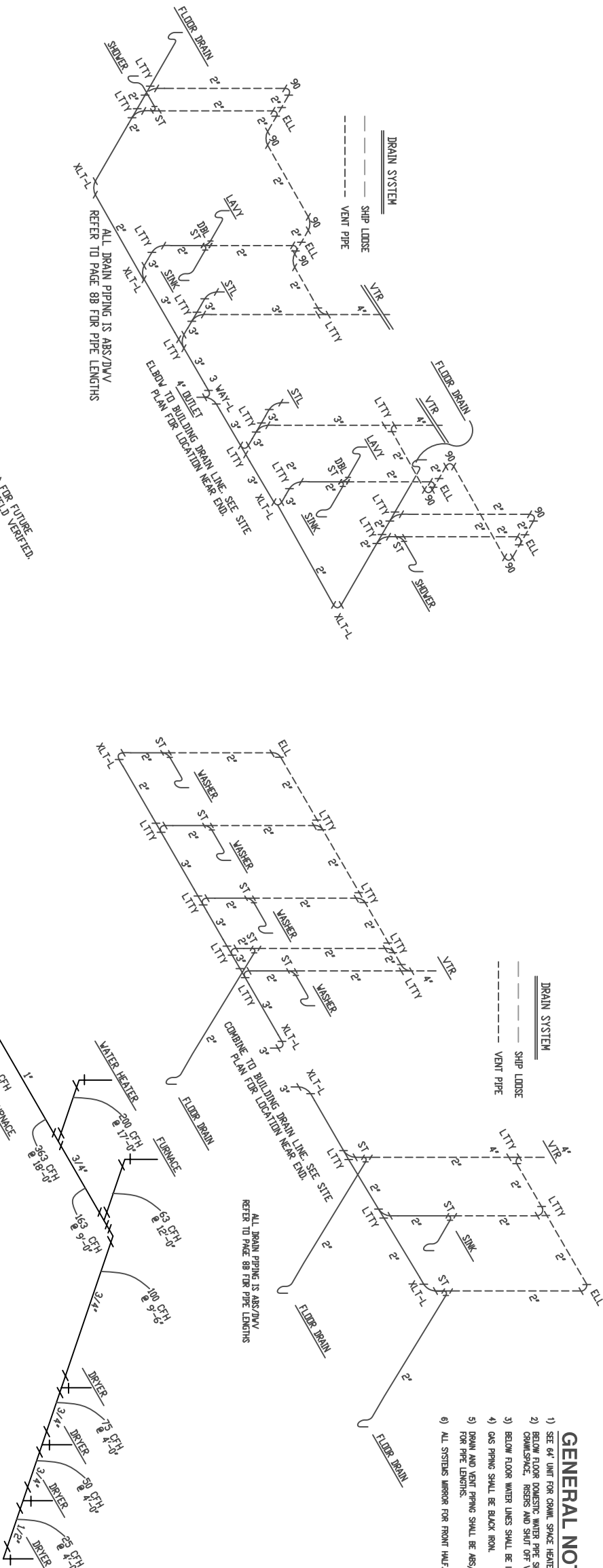
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Design: COMARK	Dwg Scale: 1:1
Drawn: LHM	Reviewed: COMARK
Sheet: 19 of 50	File: FTR245B.00
Date: 12-13-08	Drawing # 08-01-750-15-00

FORT RICHARDSON, ALASKA
FTR245 INTERIM FACILITIES
FOR AIRBORNE COMBAT BRIGADE
76' BARRACKS
AS-BUILT-DRAWINGS
CODE PLAN 1

GENERAL NOTES:

- 1) SEE 64' UNIT FOR CRAWL SPACE HEATER.
- 2) BELOW FLOOR DOMESTIC WATER PIPE SHALL BE COPPER, CPVC ABOVE CRAWLSPACE. RISERS AND SHUT OFF VALVES SHALL BE CHROME.
- 3) BELOW FLOOR WATER LINES SHALL BE INSULATED AND HEAT TRACED.
- 4) GAS PING SHALL BE BLACK IRON.
- 5) DRAIN AND VENT PING SHALL BE ABS/DWV. REFER TO PAGE 88 FOR PIPE LENGTHS.
- 6) ALL SYSTEMS MIRROR FOR FRONT HALF.





US ARMY CORPS
OF ENGINEERS
ALASKA DISTRICT

CITY _____
STATE _____
ZIP _____
PRIME CON _____

STAFF	Approved:	RECEIVED
-------	-----------	----------

Date:	
_____	_____

156

[illegible]

Street
0
je, AK
9500

911KB

000-50

Date: 3-13-10
Dwg Scale: 1:1
Plot Scale: 1/4"=1'-0"
File: FTR
Drawing #: AS-

1'-0"
159.0
-721-11-07

FTR
FOR

FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 76_BARRACKS/LAUNDRY
 CODE_PLAN_1
 AS_BUILT_DRAWINGS

Reference number: 9

Sheet 20 of 50



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTITUDE MAIN CON, LLC	
CITY	ANCHORAGE
STATE	ALASKA
Approved: _____ Date: _____	
PRIME CONTRACTOR RECOMMENDATION	

Qty.	Action	Description	Date	Appvd

Altitude

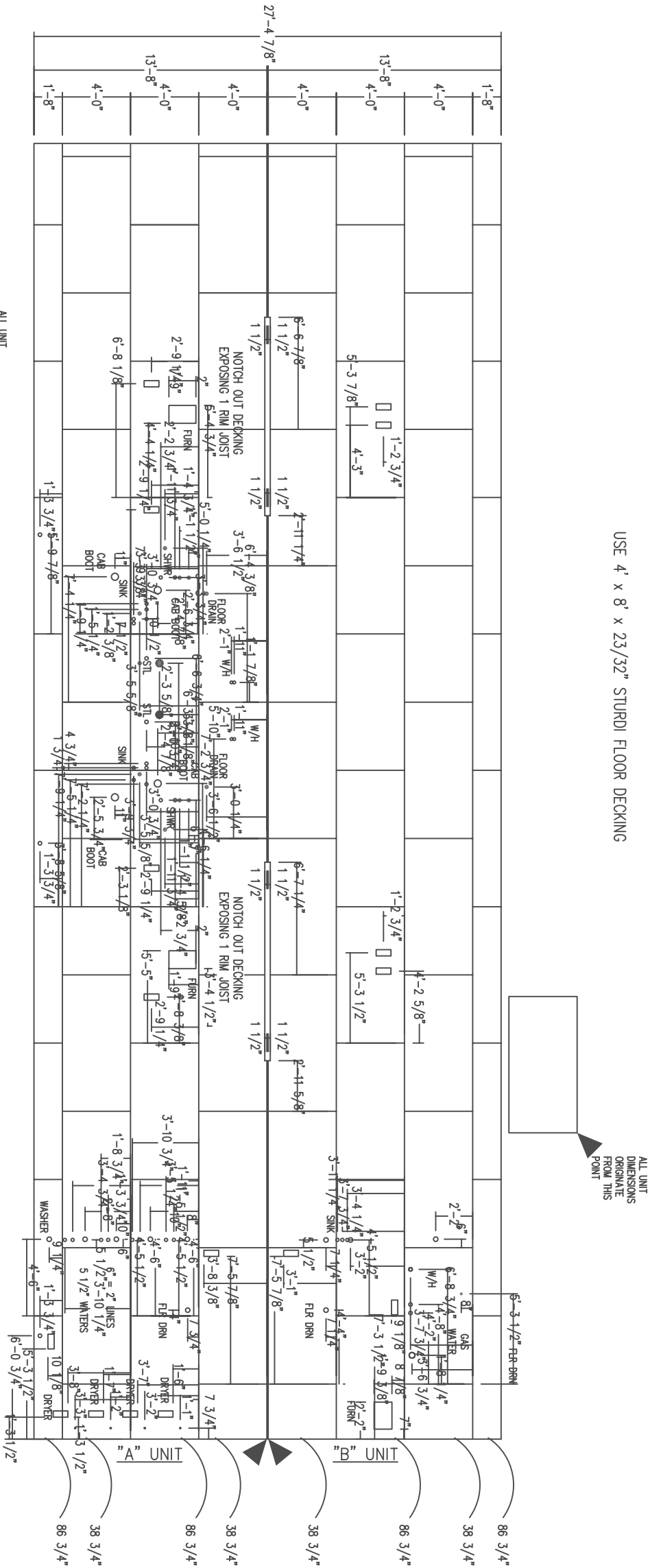
3501 C Street
Suite 700
Anchorage, AK 99503
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Altitude
Manufacturing Contractors LLC
907.222.9500

Altitude
INSTALLATION PROGRAM, INC.
3505 C Street
Anchorage, AK 99503
907.222.9500

Date: 11-15-08	Drawn: J. B. BROWN	Checked: J. B. BROWN	Submitted: 11-11-07
Project: FTR24510.0A	Revision: 1	Scale: 1/8"=1'-0"	Sheet: 21 of 50
Drawing #: AS-BLT-1-221-11-07			

FOR: RICHARDSON, ALASKA
FTR24510.0A
FOR: AIRBORNE COMBAT BRIGADE
76 BARACKS/LAUNDRY
CODE: PLAN-1
AS-BUILT DRAWINGS



NOTES:
1. DECKING IS 23/32" STURDI FLOOR, SPAN INDEXED 48/24.
2. DECKING JOINTS TO BE OFFSET 48" o.c.

- LEGEND
- = STUOL CUT-OUT (5 1/2")
 - = WASTE PIPE RISER (2 1/2" W/1 1/2" PIPE, 3 1/2" W/2" PIPE)
 - = WATER PIPE RISER (3/4")
 - = GAS PIPE AND ELEC. WIRE LOCATIONS (3/4")
 - = P-TRAP AND AUTO VENT ACCESS (8" X 8")
 - = DRYER VENT CUT-OUT (5 1/2"), CABINET REGISTER (5")
 - = FLOOR REGISTER (4 3/8" X 10 3/8")
 - = CENTER OF ELECTRICAL MAIN PANEL (2 1/2")

EASTENING SCHEDULE:
1. FLOOR DECKING TO FRAMING: 10d RING OR SCREW SHANK
NAILS AT 6" o.c. EDGES AND 12" o.c. FIELD.
2. BOTTOM BOARD TO RIM JOIST: 7/16" x 1" x 16ga. AT 4" o.c.



CONTRACT NO.	W111B-05-C-0009
CONTRACTOR	ALUTIA MAR. CON. LLC
CITY	ANCHORAGE
STATE	ALASKA
RECOMMENDED:	APPROVED:
PRIME CONTRACTOR	RESIDENT ENGINEER
Date:	

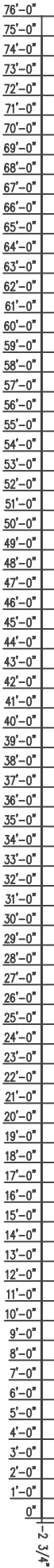
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3200
Suite
And
Arch
959
Allu
Manufacturing Contractors LLC

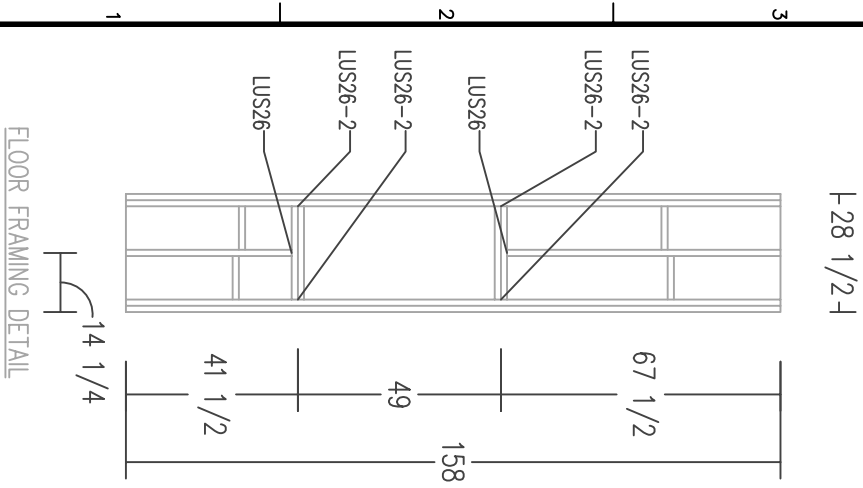
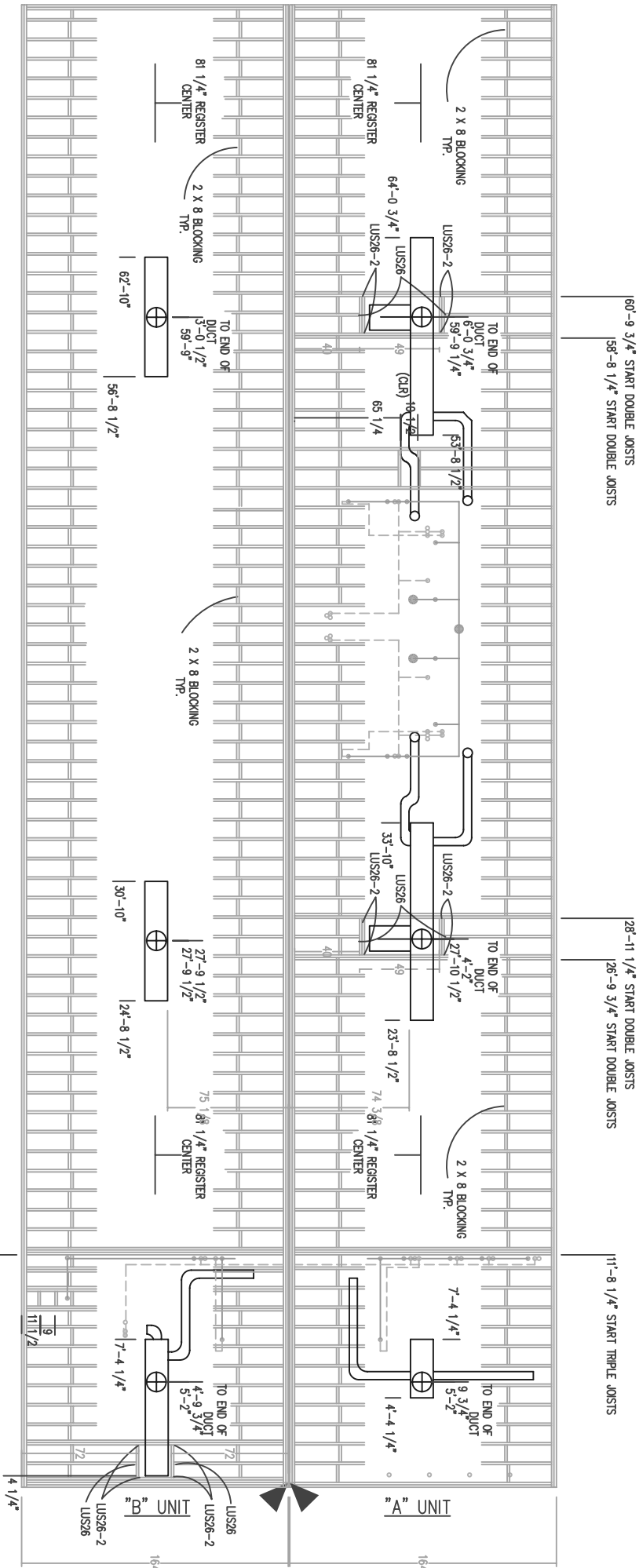
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FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 76_BARRACKS/LAUNDRY
 CODE_PLAN_1
 AS_BUILT_DRAWINGS

Reference
number:
11



2x8 FLOOR SYSTEM, SPF #2 OR BETTER AT 12" ON CENTER



- NOTES:**
1. FLOOR FRAMING IS SHOWN INVERTED (UPSIDE DOWN, AS BUILT IN JIG).
 2. DOUBLE RIM JOISTS SPLICES TO BE OFFSET 48" MIN.

- FASTENING SCHEDULE:
1. RM. JOIST TO FLOOR JOIST: (4) $1\frac{1}{2}$ x 3" NAILS @ 7/16" x 2.1/2" x 15ga. STAPLES
 2. OUTSIDE RM. TO INSIDE RM.: $1\frac{1}{2}$ x 3" NAILS, 2 ROWS, 24" o.c. STAGGERED.
 3. RM. TO SILL PLATE: $1\frac{1}{2}$ x 3" NAILS AT 5" o.c.
 4. FLOOR DECKING TO FRAMING: 10d NAILS AT 6" o.c. EDGES AND 12" o.c. FIELD.
 5. DOUBLE JOISTS: $1\frac{1}{2}$ x 3" NAILS 2 ROWS, 24" o.c. STAGGERED.
 6. I-BEAM TO JOIST: 5/16" x 3" LAG TO CHASSIS BEAMS @ 16" o.c.
 - OUTRIGGER TO JOIST: 5/16" x 3" LAG TO OUTRIGGER AT FREE END.

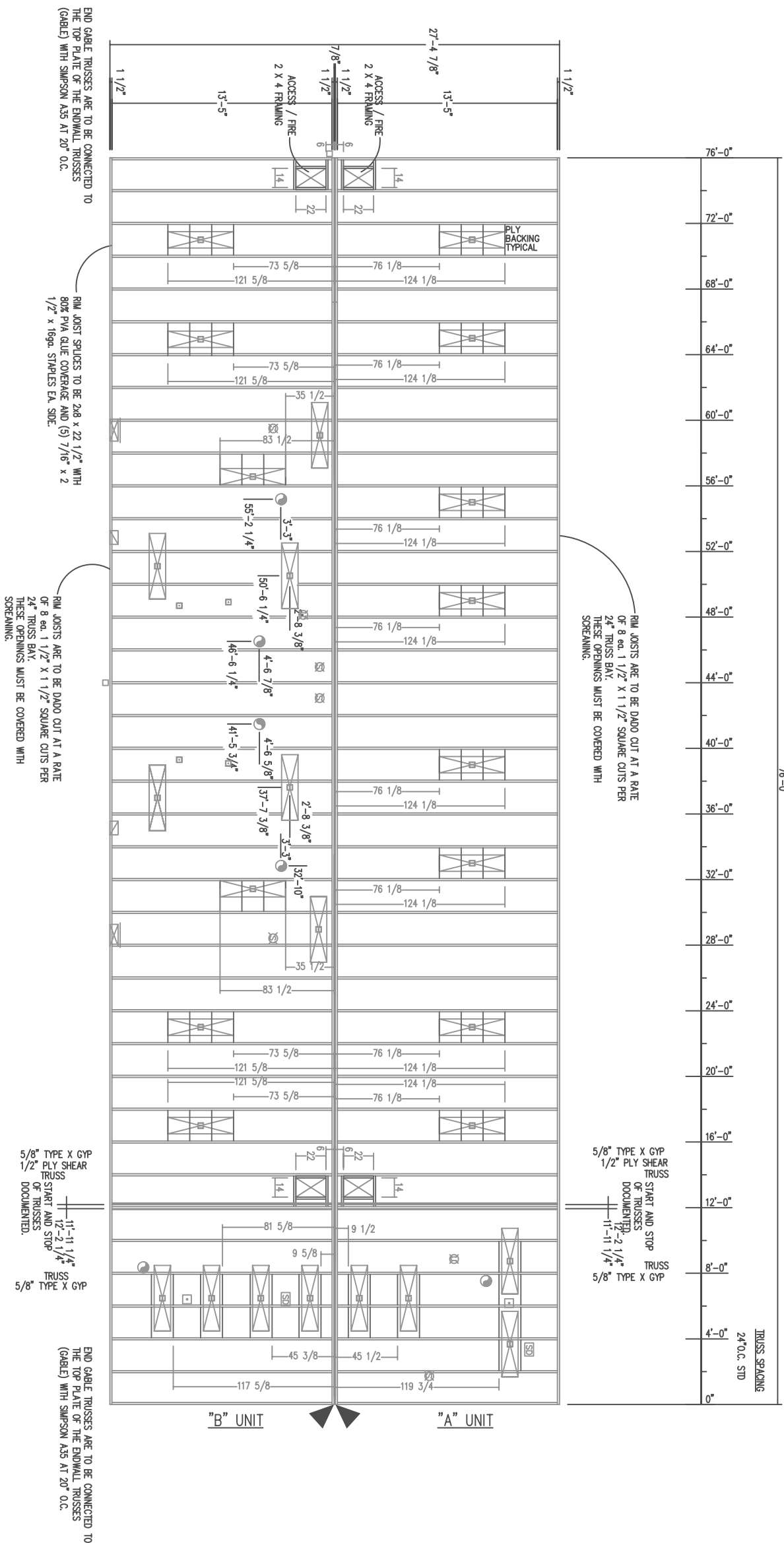
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Plot Scale: 1/8"=1'-0"	SECTION
Dwg Scale: 1:1	COMARK
Date: 03-08	DATE

FTIR245, INTERIM FACILITIES
 FOR AIRBORNE COMBAT BRIGADE
 76, BARRACKS/LAUNDRY
 CODE PLAN 1
 AS_BUILT_DRAWINGS

Reference
number:
12A

Sheet 24 of 50





CONTRACT NO.	W111B-05-C-0009
CONTRACTOR	ALUTIA MAR. CON. LLC
CITY	ANCHORAGE
STATE	ALASKA
Recommended:	Approved:
PRIME CONTRACTOR	RESIDENT ENGINEER
Date:	

[illegible]

3201 C Street
Suite 700
Akron, OH 44302
907.222.9500

Alutiq
Manufacturing Contractors LLC

COMARK
BUILDING SYSTEMS, INC.
3005 COMARK BUILDING SYSTEMS, INC.
At Right's Request

Drawn: CONARK	Drawn: LHM
Revised: CONARK	Revised: CONARK
Section: CONARK	Section: CONARK
Sheet: CONARK	Sheet: CONARK
Branch: CONARK	Branch: CONARK
Drawing #: BL-721-11-07	Drawing #: BL-721-11-07

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
76_BARRACKS/LAUNDRY
CODE_PLAN_1
AS_BUILT_DRAWINGS

Reference
number:
12B

Sheet 25 of 50



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALUTIIQ MAN. CO., LLC	
CITY ANCHORAGE	STATE ALASKA
Recommended:	Approved:
PRIME CONTRACTOR	WESTPORT ENGINEER
Date:	

Sym.	Action	Description	Date	Appvd

Alutiiq

3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

Manufacturing Contractors LLC

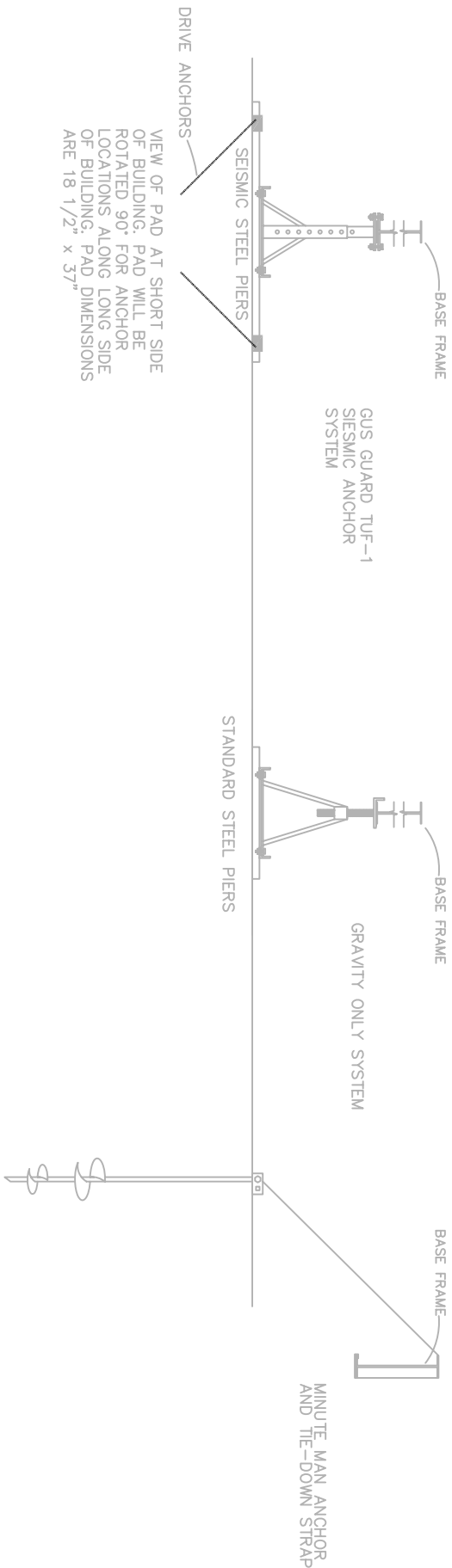
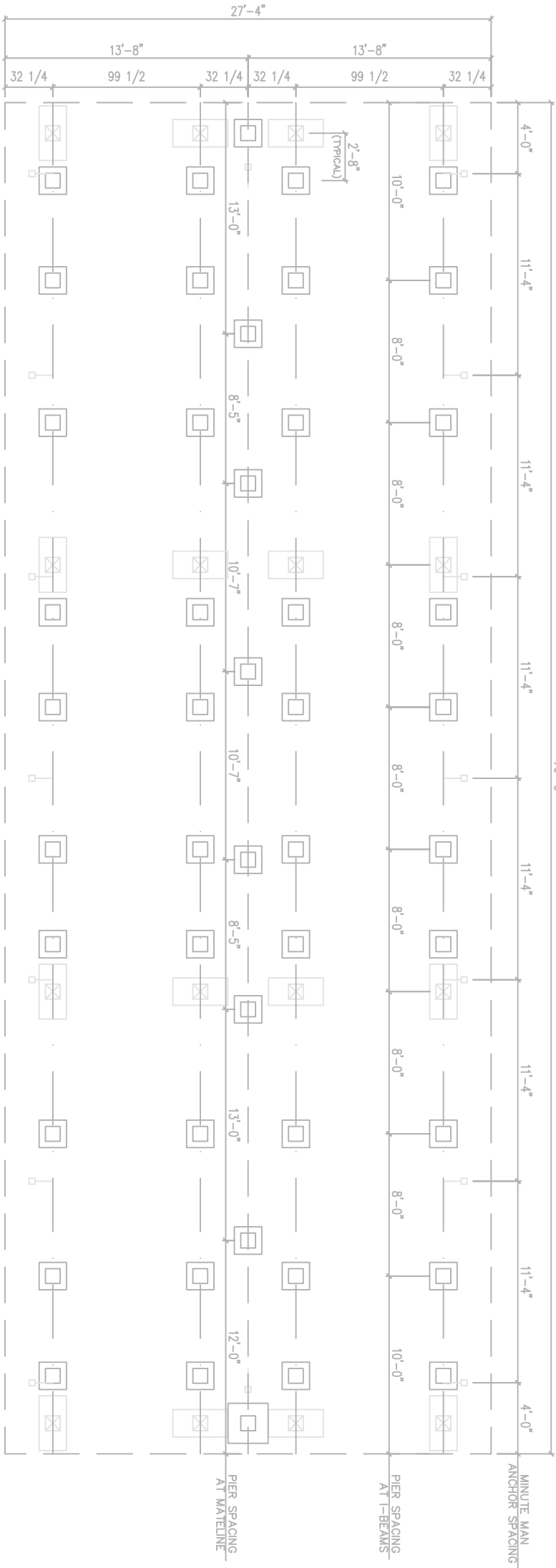
COMARK

REINFORCING SYSTEMS, INC.

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Reviewed: J. R. Smith	Checked: J. R. Smith
Submittal: 05/13/07	Submittal: 05/13/07
Revision: 1/8"=1'-0"	Revision: 1/8"=1'-0"
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Drawn: J. R. Smith	Drawn: J. R. Smith
Submittal: 05/13/07	Submittal: 05/13/07
Revision: 1/8"=1'-0"	Revision: 1/8"=1'-0"
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Submittal: 05/13/07	Submittal: 05/13/07
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Proj. Scale: 1/8"=1'-0"	Proj. Scale: 1/8"=1'-0"

FOR AIRBORNE COMBAT BRIGADE
FOR INTERIM FACILITIES
FOR RICHARDSON, ALASKA
AS BUILT DRAWINGS
76 BARABACKS/LAUNDRY
CODE PLAN 1
76 BARABACKS/LAUNDRY
AS BUILT DRAWINGS



LATERAL FORCES DUE TO WIND & SEISMIC LOADING SHALL BE RESISTED BY GUS GUARD TUF-1 ASSEMBLIES AS MANUFACTURED BY ABESCO-GUS GUARD COMPANY OF SACRAMENTO, CA. (800-382-8831). FULLY COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS & REQUIREMENTS FOR INSTALLATION AND DESIGN. THE TUF-1 ANCHOR STAND SHALL BE SUPPORTED USING AN ABESCO ABS PAD #503 (WITH STEEL FRAME AND ANCHOR RODS) OR WITH 16" x 32" x 12" POURED IN PLACE CONCRETE FOUNDATIONS (WITH 1/2" DIAMETER ANCHOR BOLTS OR EXPANSION ANCHORS).

ANCHOR STANDS FOR GRAVITY ONLY LOADS SHALL BE CAPABLE OF SAFELY SUPPORTING A MINIMUM OF 5000 LBS.

THE FOUNDATION IS DESIGNED FOR A MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. BEARING SUBGRADE CAPACITY SHALL BE VERIFIED BEFORE SETTING FOUNDATION SYSTEM.

- NOTES:
- STAND SPACING MAY VARY DUE TO AXLE HANGERS OR OTHER STRUCTURAL OBSTRUCTIONS.
 - BASE PADS TO BE CONSTRUCTED OF ABS.
 - STANDS MAY BE ADDED UNDER SIDES OF DOORS AS NECESSARY FOR PROPER DOOR ADJUSTMENT.
 - ASSUMED SOIL BEARING PRESSURE IS 2500 PSF.
 - ALL PIERS TO BE MECHANICALLY ATTACHED TO FRAME.

- LOCATION OF SEISMIC STEEL PIER & 18 1/2"x37" ABS PAD
- LOCATION OF STEEL PIER ON 18 1/2" x 18 1/2" ABS PAD
- LOCATION OF TIE-DOWN ANCHORS WITH 2000 LBS ALLOWABLE UPLIFT CAPACITY



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTITUDE WALL CON., LLC	
CITY	ANCHORAGE
STATE	ALASKA
Approved: _____ Date: _____	
PRIME CONTRACTOR RECOMMENDED BY	

Qty.	Action	Description	Date	Apprv.

Alutiq

3501 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

COMARK

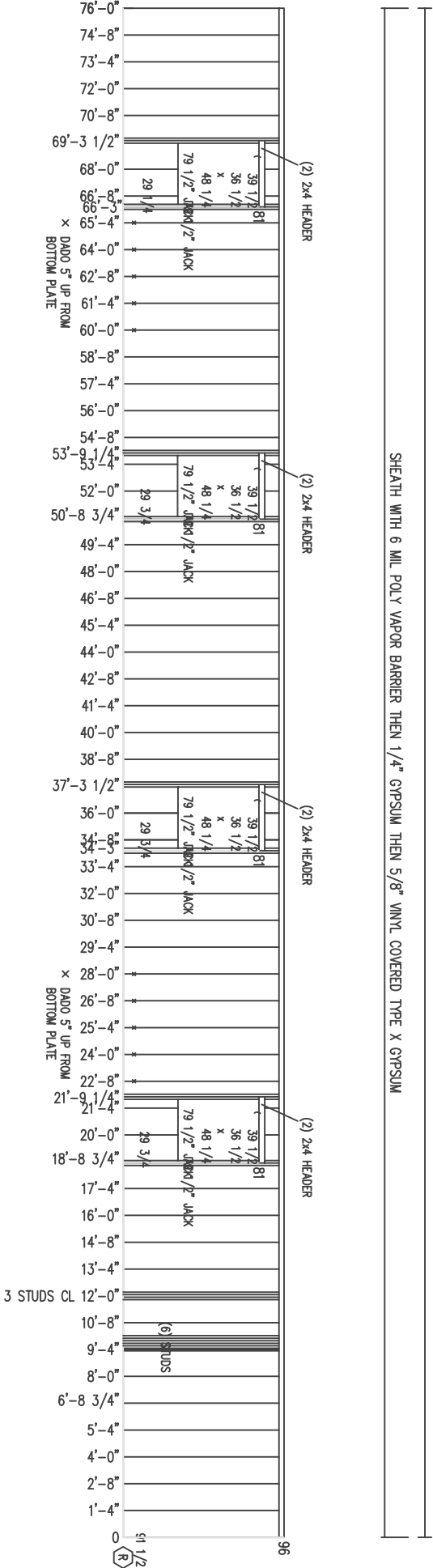
Manufacturing Contractors LLC
907.222.9500

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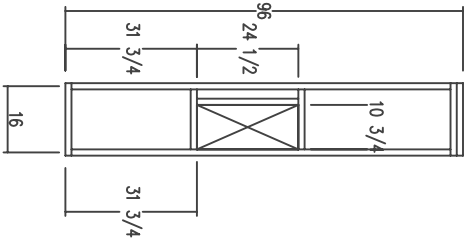
3501 C Street
Suite 700
Anchorage, AK 99503
907.222.9500

Drawn: J. L. L. 12/11/07	Checked: J. L. L. 12/11/07	Submitted: J. L. L. 12/11/07
Date: 12/11/07	Scale: 1:1	Plot Scale: 1/8"=1'-0"
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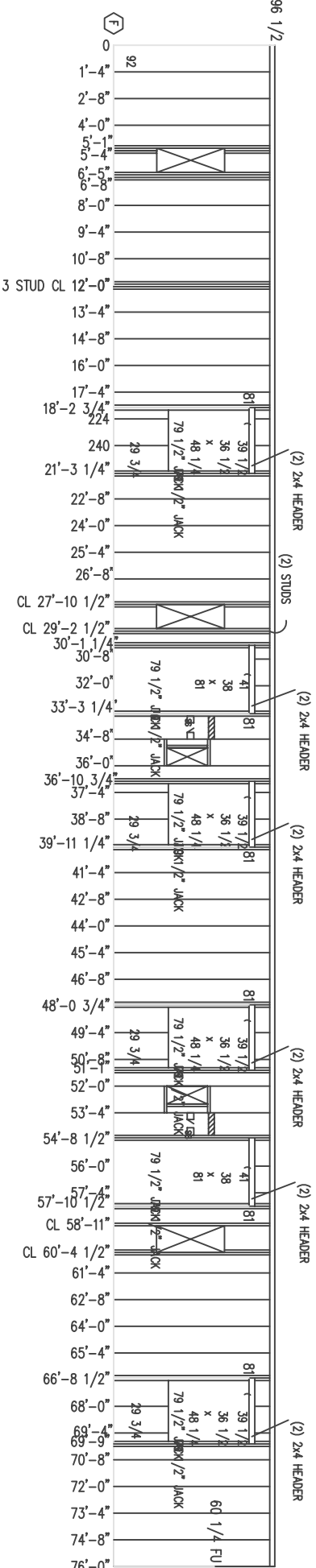
FOR AIRBORNE COMBAT FACILITIES
FTR245 INTERIM FACILITIES
76' BARRACKS
AS BUILT
SIDE WALL AND END WALL
TOP PLATE
SHALL BE
MINIMUM
WITH (12)
EACH SIDE
(2) ROWS
5' O.C.



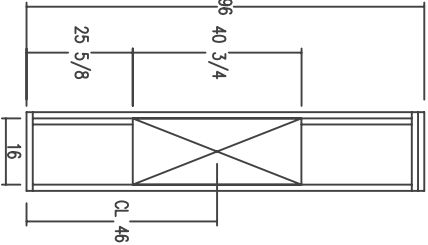
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48
SHEATH WITH 6 MIL. POLY VAPOR BARRIER THEN 1/4" GYPSUM THEN 5/8" VINYL COVERED TYPE X GYPSUM
NO FRP
THEN 5/8" TYPE X GYPSUM
THEN 1/8" FRP PANEL



FIRE EXT. CABINET
FRAMING DETAIL



ELECTRICAL PANEL
FRAMING DETAIL



(2) LIGHT SWITCHES
4" H X 4" W X 1/2" D
GASKETED THERMAL
CENTERED AT 46" AFF

FIRE PULL STATION
4" H X 4" W X 1/2" D
GASKETED THERMAL
CENTERED AT 46" AFF

FIRE EXT. CABINET
24" H X 10 1/2" W X 4" D
BLUE BOARD BEHIND,
CENTERED ALIGNED WITH

ELECTRICAL MAIN PANEL
40 7/8" H X 16" W X 4" D
1/2" D BLUE BOARD BEHIND,
CENTERED ALIGNED WITH



CONTRACT NO.	W911KB-05-C-0009	CONTRACTOR	ALTRIA MAN. CON. LLC	CITY	ANCHORAGE	STATE	ALASKA
Room/Commanded:		Approved:		Date:		RESIDENT SIGNED	
PRIME CONTRACTOR							

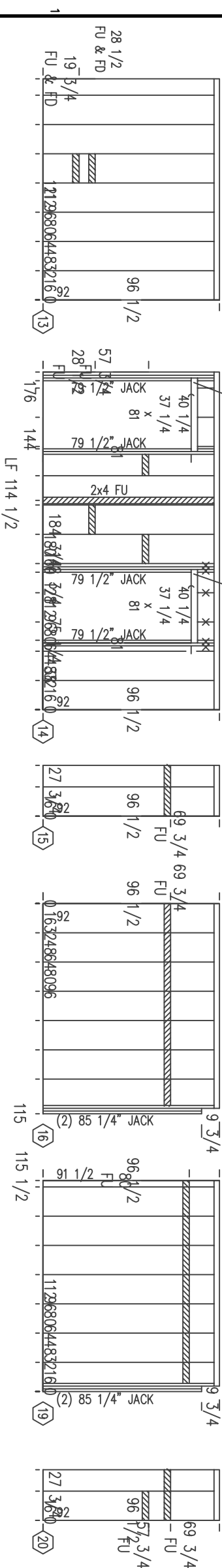
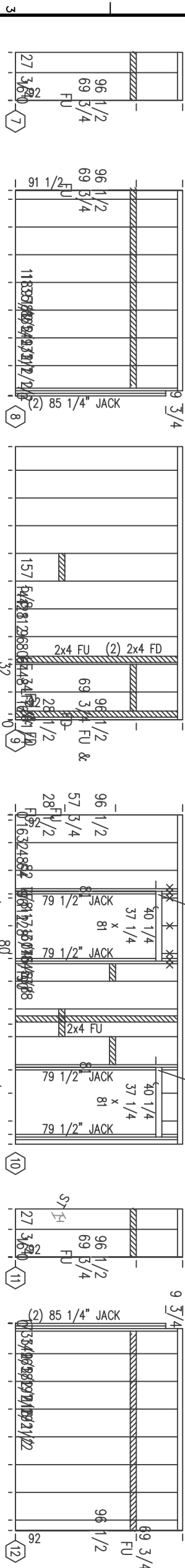
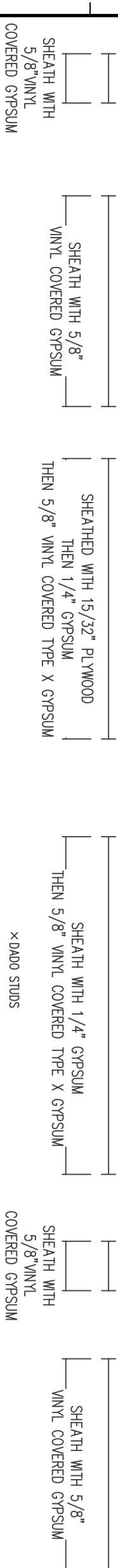
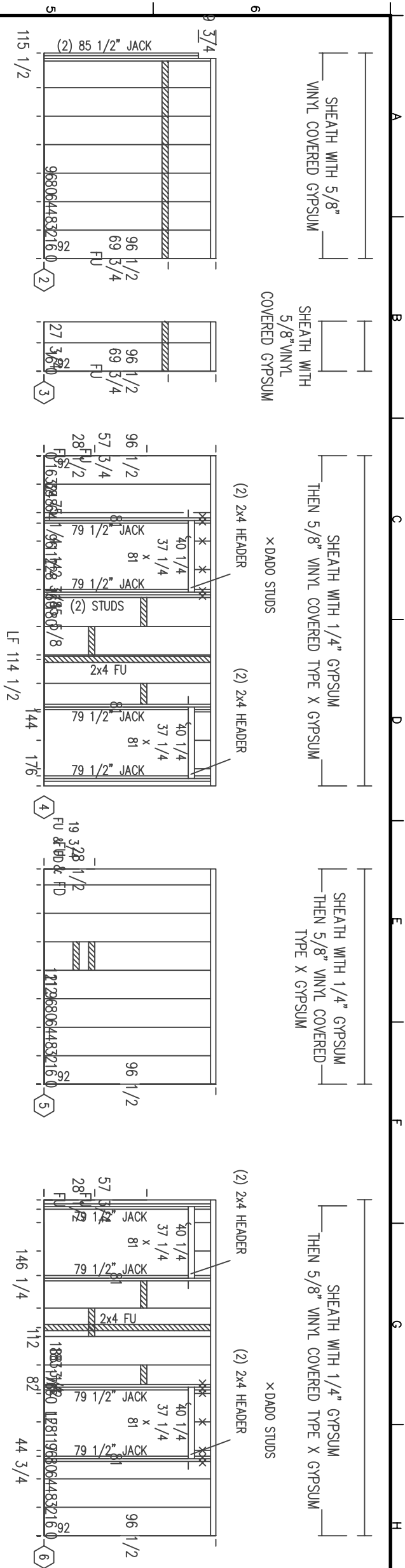
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3201 C Street
Suite 700
Anchorage, AK
99503
Manufacturing Contractors LLC
Alutiiq

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Design: CHAN	Dwg Scale: 1:1	
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File: FTR24515.0D	Section	
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FORT_RICHARDSON_ALASKA
 FTR245_INTERIM_FACILITIES
 FOR_AIRBORNE_COMBAT_BRIGADE
 76_BARRACKS/LAUNDRY
 CODE_PLAN_1

PARTITIONS: INTERIOR





CONTRACT NO. W911KB-05-C-0008	
CONTRACTOR ALTRIS M&M CON. LLC	
CITY	STATE
RESIDENT ENGINEER	DATE:
RECOMMENDED:	APPROVED:
PRIME CONTRACTOR	

Qty.	Action	Description

3201 C Street
Suite 700
Aurora, AK 99502
907.222.9000

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Manufacturing Contractors LLC
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907.222.9000

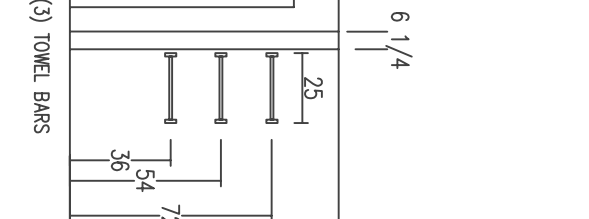
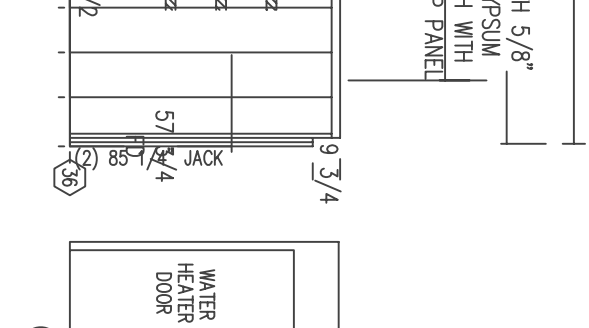
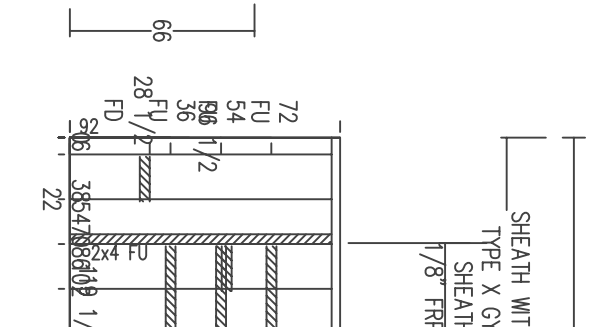
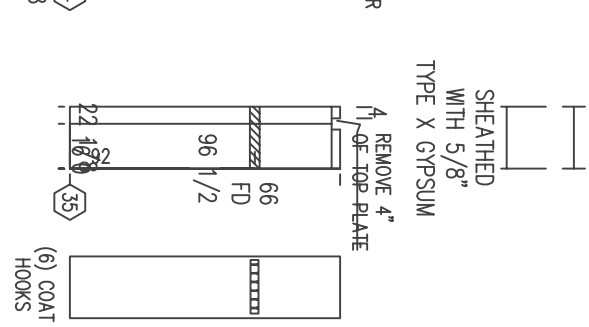
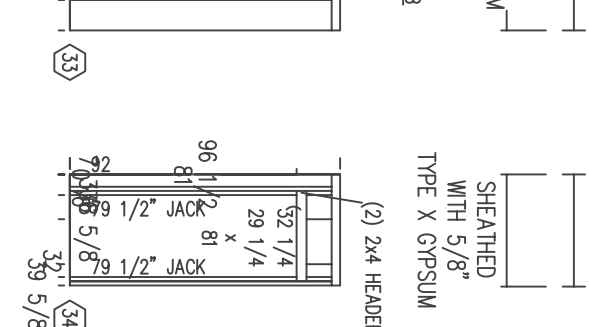
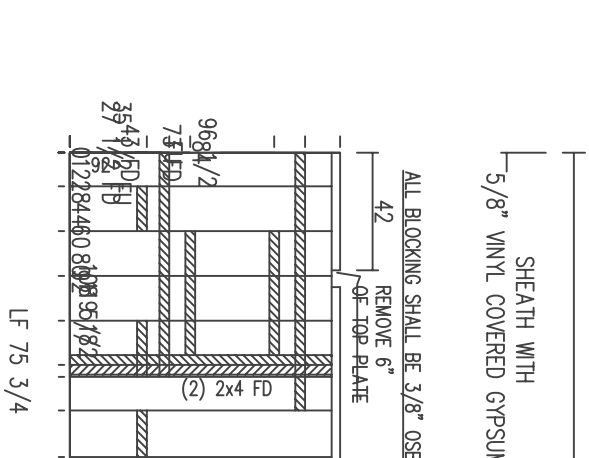
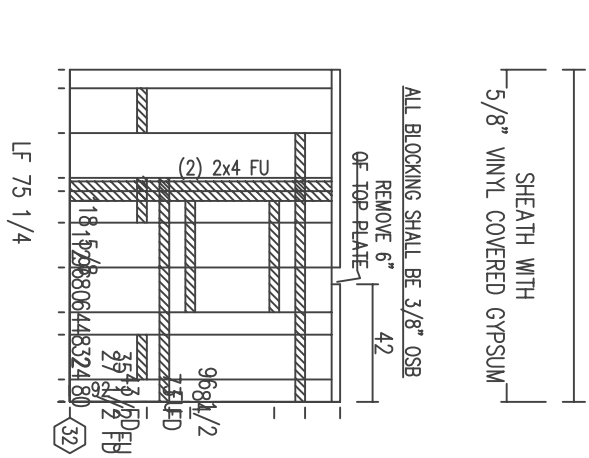
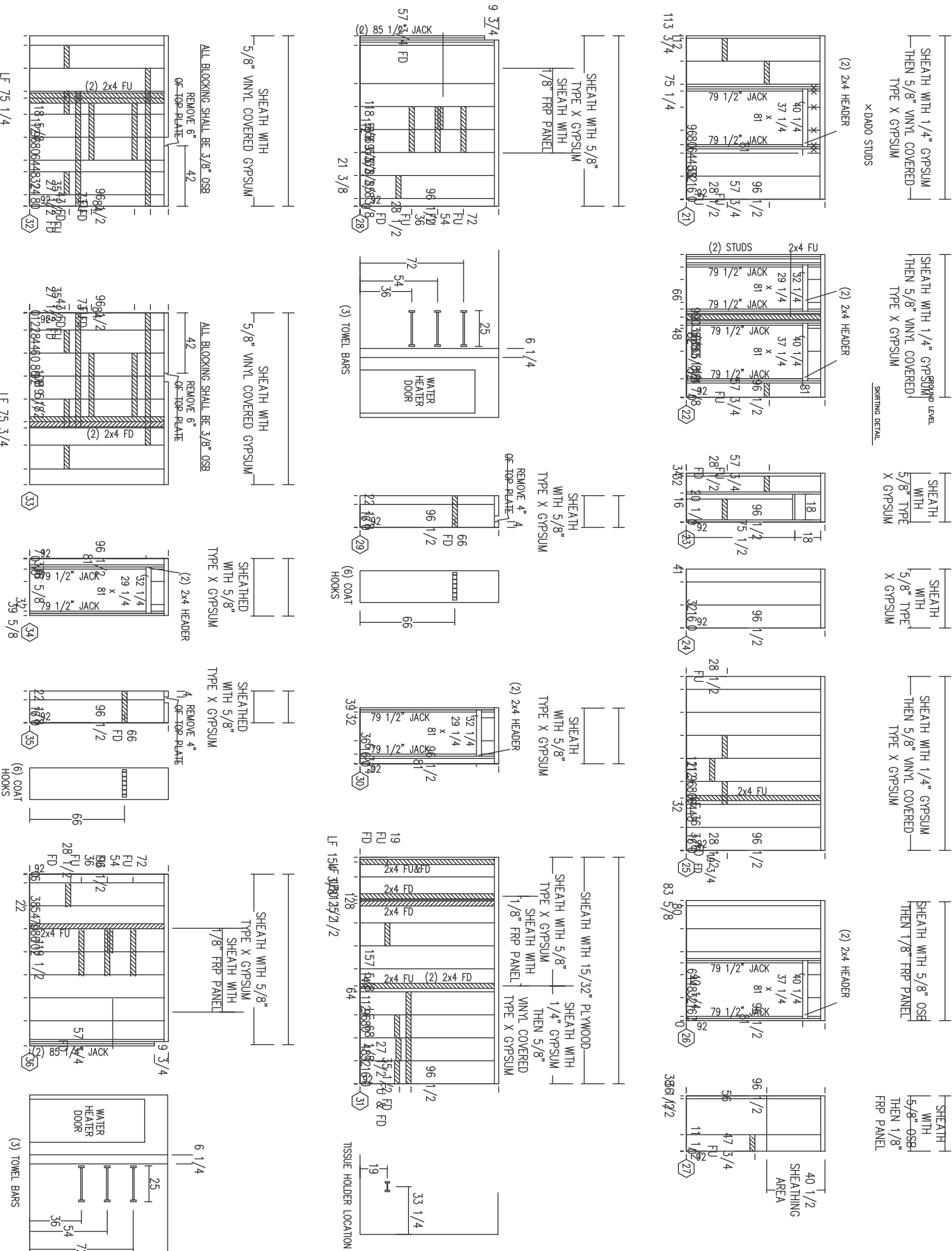
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Drawn: TLM	Reviewed: COMARK
Proj. Scale: 1:1	Sheet: 15E-01
Proj. Name: 76 BARACKS/LAUNDRY	Section: 15E-01
Proj. No: W911KB-05-0009	Drawing #: 15E-01-721-11-03

FOR, RICHARDSON, ALASKA
FT. RICHARDSON
76 BARACKS/LAUNDRY
CODE PLAN 1

Reference Number:
15E
Sheet 30 of 50

PARTITIONS: INTERIOR





CONTRACT NO. W911KB-05-C-0008	
CITY	ANCHORAGE
CONTRACTOR	ALTRIS MARK CON. LLC
RESIDENT ENGINEER	DATE:
APPROVED:	STATE: ALASKA
PRIME CONTRACTOR	

Qty.	Action	Description

3001 C Street
Suite 700
Anchorage, AK 99503
907.222.9900

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CONSTRUCTION SERVICES, INC.

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Designed: COMARK

Drawn: LHM

Reviewed: COMARK

Checked: COMARK

Submitted: COMARK

Out: COMARK

Date: 10-13-08

Plot Scale: 1"=1'-0"

Plot: FTR24515.05

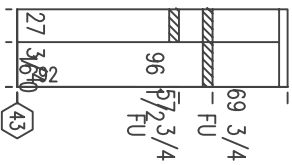
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FOR AIRBORNE COMBAT FACILITIES
76th BARACKS/LAUNDRY
CODE PLAN_1

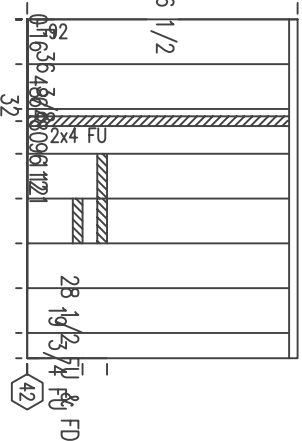
Reference Number:
15F

PARTITIONS: INTERIOR

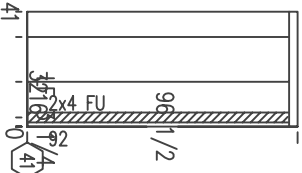
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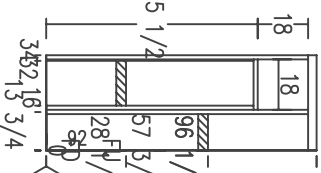
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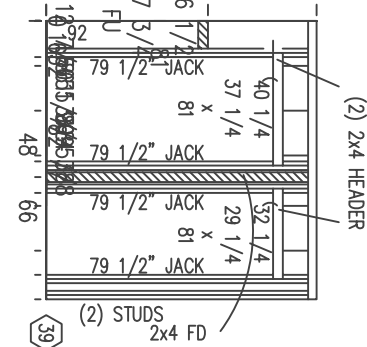
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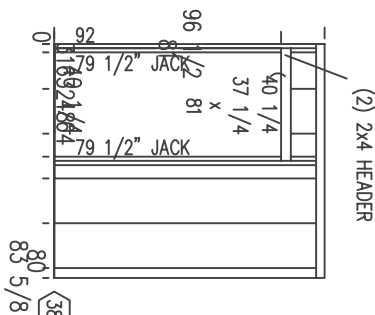
SHEATH WITH 5/8" TYPE X GYPSUM



SHEATH WITH 1/4" GYPSUM THEN 5/8" VINYL COVERED TYPE X GYPSUM

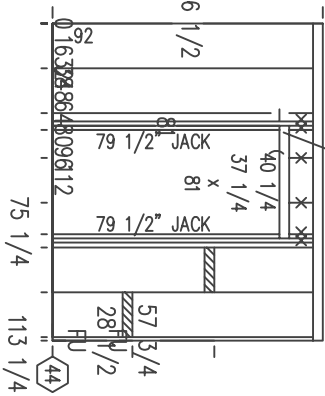


SHEATH WITH 5/8" OSB THEN 1/8" FRP PANEL

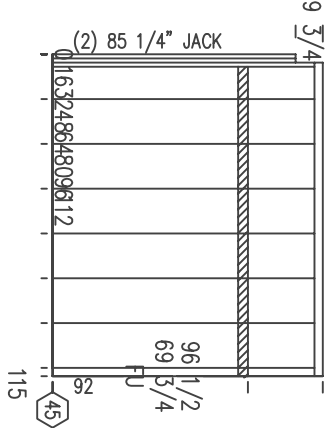


SHEATH WITH 1/4" GYPSUM THEN 5/8" VINYL COVERED TYPE X GYPSUM

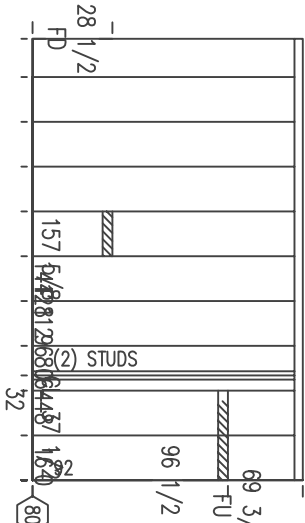
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(2) 2x4 HEADER



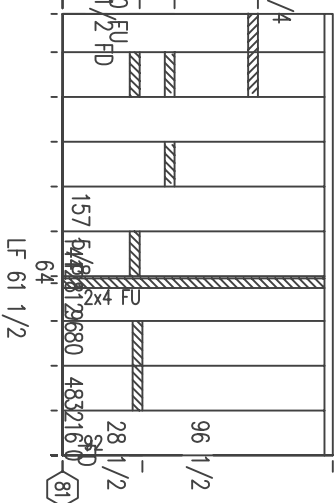
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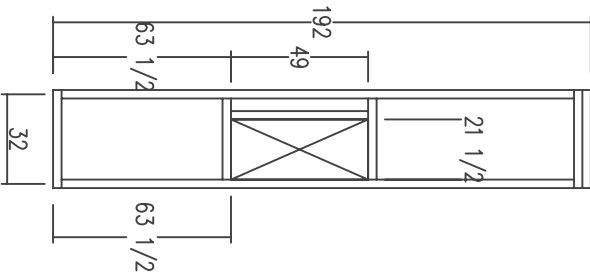
DNP
37 1/2
SHEATH WITH 1/2" PLY, 1/4" GYPSUM THEN 5/8" VINYL COVERED TYPE X GYPSUM
6" WALL



SHEATH WITH 5/8" VINYL COVERED TYPE X GYPSUM
6" WALL

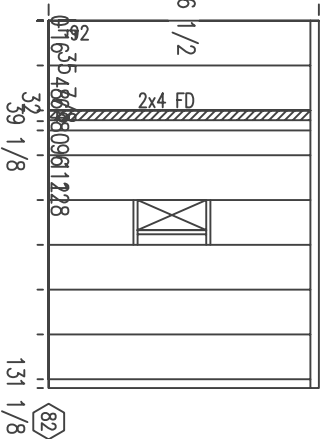


FIRE EXT. CABINET FRAMING DETAIL

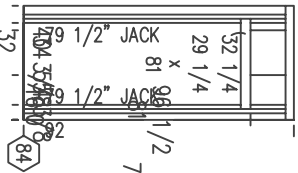


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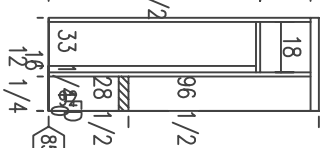
SHEATH WITH 5/8" PLY



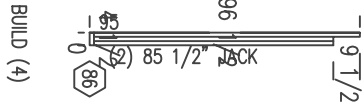
SHEATH WITH 5/8" TYPE X GYPSUM



SHEATH WITH 5/8" TYPE X GYPSUM

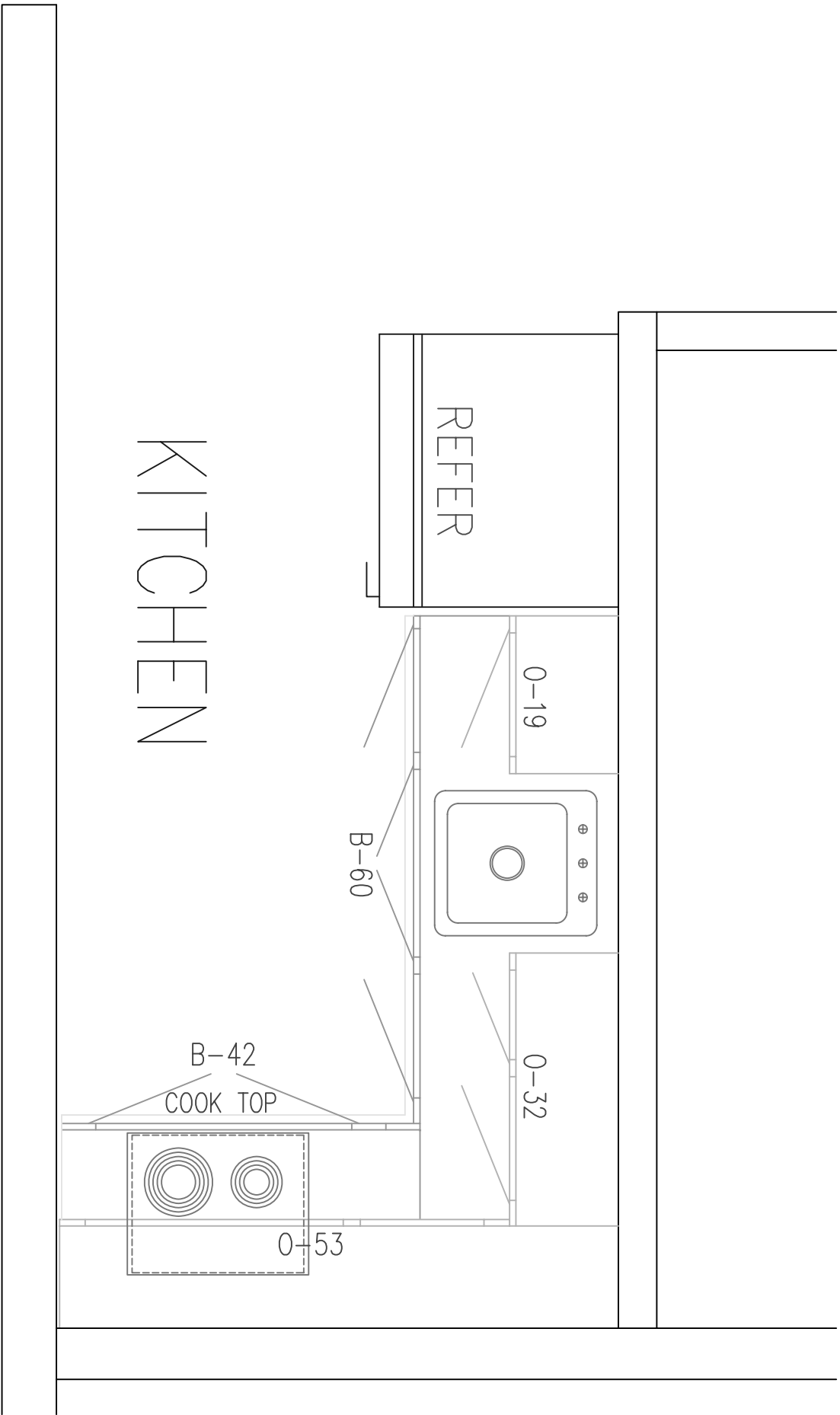


NO TOP PLATE



FIRE EXT. CABINET
24" H X 10 1/2" W X 4" D
BLUE BOARD BEHIND, INSULATION

BUILD 1 RIGHT AND 1 LEFT, SEE FLOOR PLAN



Reference
number:
16A
Sheet 32 of 50

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
ALL_BARACKS
CODE_PLAN_1
AS_BUILT_DRAWINGS

Alutiq
3201 C Street
Suite 700
Anchorage, AK 99503
Manufacturing Contractors LLC
907.222.9800

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Designed: COMARK	Date: 9-19-09
Drawn: LHM	Proj Scale: 1:1
Reviewed: COMARK	File: FTR24516.0A
Sheet: COMARK	Section: Section
Submittal: COMARK	Drawing #: 16-B-1-721-11-03
Client: COMARK	Project: W911KB-05-0009

Qty	Action	Description	Date	Appvd

CONTRACT NO. W911KB-05-C-0009	CITY ANCHORAGE	PRIME CONTRACTOR
CONTRACTOR ALUTIQ MAN. CO., LLC	STATE ALASKA	RECOMMENDED:
	APPROVED:	RESIDENT ENGINEER
	Date:	Date:





CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTRIS MFG. CO., LLC	
CITY	ANCHORAGE
STATE	ALASKA
RESIDENT ENGINEER	Approved: _____ Date: _____
PRIME CONTRACTOR	Recommended: _____

Qty.	Action	Description	Date	Appvd

3201 C Street
Suite 700
Anchorage, AK 99503
907.222.9800

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Design: COMARK
Drawn: LHM
Reviewed: COMARK
Checked: COMARK
Submittal: COMARK
Out: COMARK

W911KB-05-0009
Drawing # 45-B-1-721-11-03
Rev: FTR24516.03
Rev Scale: 1/8"=1'-0"
Rev: 11/19/09

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
ALL_BARACKS
CODE_PLAN_1
AS_BUILT_DRAWINGS

Reference
Number:
16B
Sheet 33 of 50

SPACESAVER MICRO

CABINET DOOR/DRAWER SIZE SCHEDULE

- (A) = 11 1/2 x 19 1/2

(B) = 11 1/2 x 26 1/2

(C) = 15 1/2 x 11 1/2

(D) = 15 1/2 x 19 1/2

(E) = 15 1/2 x 26 1/2

(F) = 19 1/2 x 19 1/2
- (G) = 19 1/2 x 26 1/2

(H) = 15 1/2 x 43 1/2

(M) = 13 5/8 x 28 1/2

(R) = 11 1/2 x 6

(S) = 15 1/2 x 6

(T) = 19 1/2 x 6
- (U) = 11 1/2 x 9 3/8

(V) = 15 1/2 x 9 3/8

(W) = 19 1/2 x 9 3/8

(X) = 11 1/2 x 12 3/4

(Y) = 15 1/2 x 12 3/4

(Z) = 19 1/2 x 12 3/4
- (UU) = 23 x 9 3/8

(VV) = 31 x 9 3/8

(WW) = 39 x 9 3/8

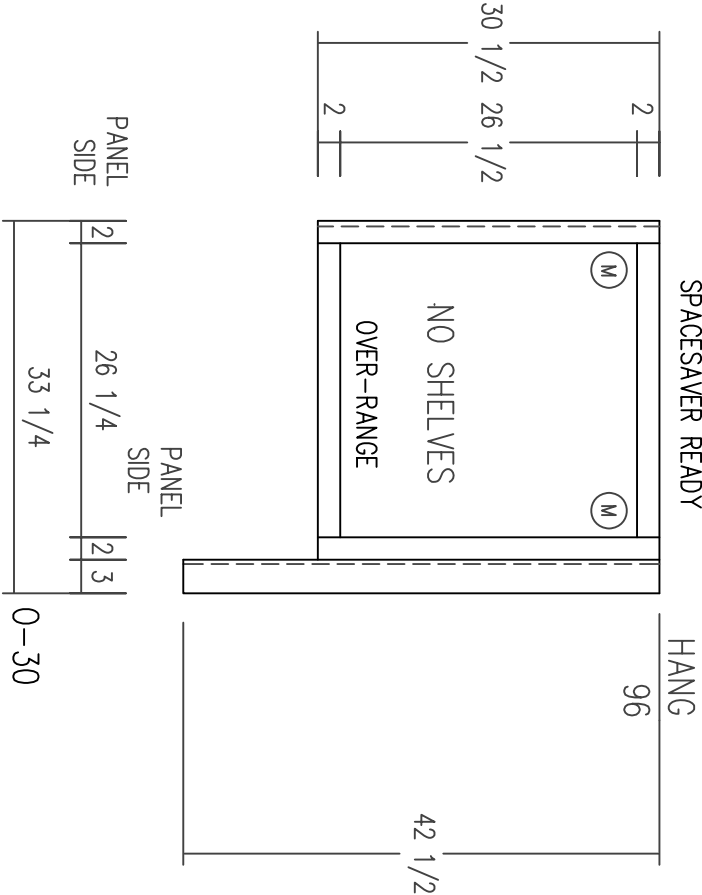
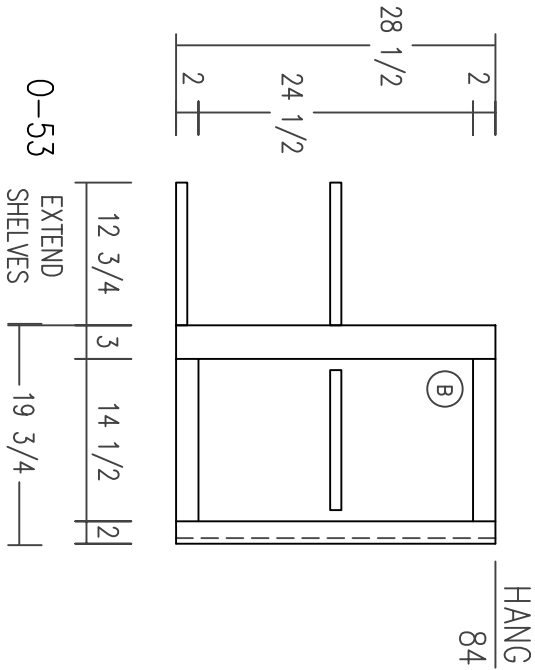
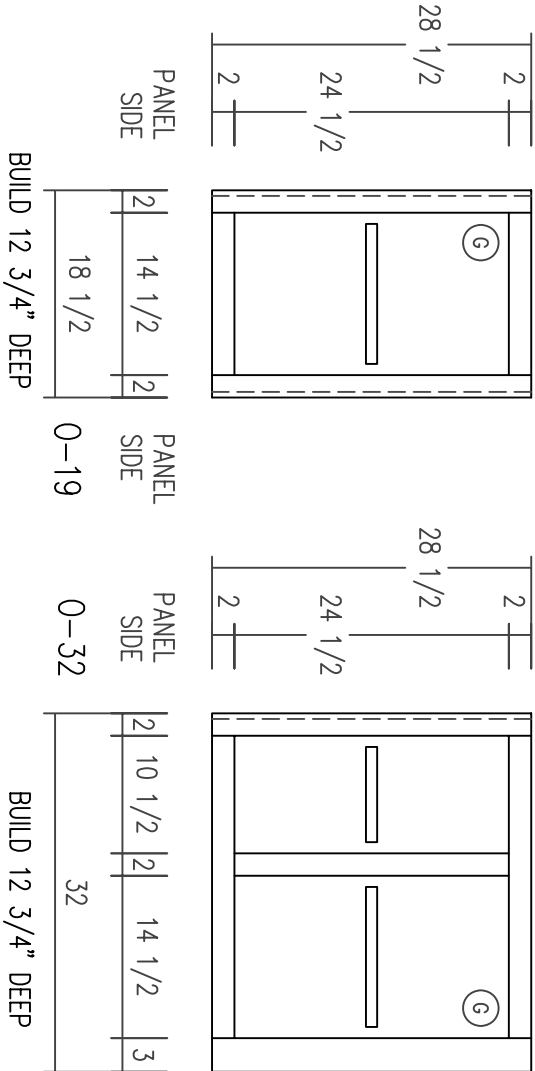
(XX) = 23 x 12 3/4

(YY) = 31 x 12 3/4

(ZZ) = 39 x 12 3/4
- (RR) = 23 x 6

(SS) = 31 x 6

(TT) = 39 x 6



OVERHEAD CABINETS

A B C D E F G H



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTRIS MFG. CO., LLC	
CITY	ANCHORAGE
STATE	ALASKA
Approved:	Resident Engineer
Date:	

Qty.	Action	Description	Date	Appvd

Alutiq
3001 C Street
Suite 700
Anchorage, AK 99503
907.222.9800
Manufacturing Contractors LLC

COMARK
Sustainable Building Systems, Inc.
25 South Riverdale
Anchorage, AK 99503

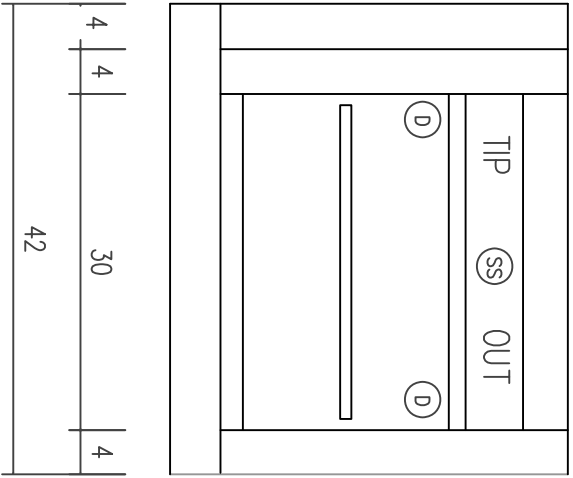
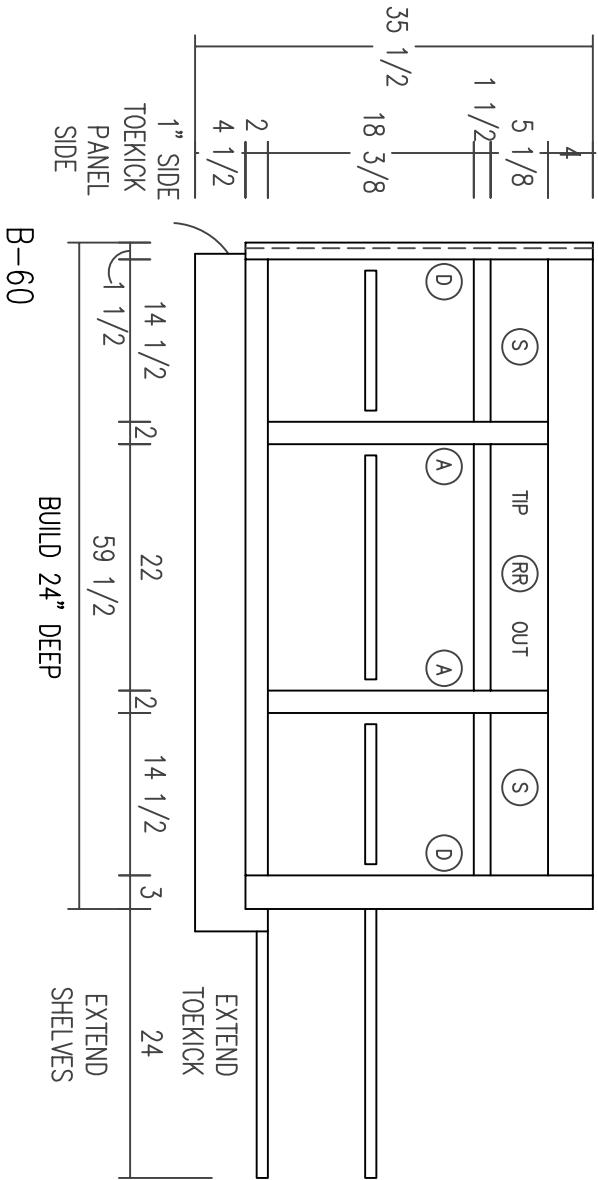
Designed: COMARK	Date: 9-19-09
Drawn: LHM	Reviewed: COMARK
Proj. Scale: 1/8"=1'-0"	Rev. Scale: 1/8"=1'-0"
File: FTR24516-05	Sheet: FTR24516-05
Section: SECTION	Division: DIVISION
Subproject: COMARK	Outlet: OUTLET
Drawing # 453-B-1-721-11-03	

CONTRACT NO. W911KB-05-0009	
CONTRACTOR COMARK	
CITY	ANCHORAGE
STATE	ALASKA
Approved:	Resident Engineer
Date:	

FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
ALL_BARACKS
CODE_PLAN_1
AS_BUILT_DRAWINGS

Reference number:	16C
Sheet	34 of 50

BASE CABINETS



CABINET DOOR/DRAWER SIZE SCHEDULE

(A) = 11 1/2 x 19 1/2	(G) = 19 1/2 x 26 1/2	(U) = 11 1/2 x 9 3/8	(UU) = 23 x 9 3/8
(B) = 11 1/2 x 26 1/2	(H) = 15 1/2 x 43 1/2	(V) = 15 1/2 x 9 3/8	(VV) = 31 x 9 3/8
(C) = 15 1/2 x 11 1/2		(W) = 19 1/2 x 9 3/8	(WW) = 39 x 9 3/8
(D) = 15 1/2 x 19 1/2	(R) = 11 1/2 x 6	(X) = 11 1/2 x 12 3/4	(XX) = 23 x 12 3/4
(E) = 15 1/2 x 26 1/2	(S) = 15 1/2 x 6	(Y) = 15 1/2 x 12 3/4	(YY) = 31 x 12 3/4
(F) = 19 1/2 x 19 1/2	(T) = 19 1/2 x 6	(Z) = 19 1/2 x 12 3/4	(ZZ) = 39 x 12 3/4
	(RR) = 23 x 6		
	(SS) = 31 x 6		
	(TT) = 39 x 6		

A B C D E F G H



CONTRACT NO. W911KB-05-C-0009	
CONTRACTOR ALTRIO MM, CO., LLC	
CITY	ANCHORAGE
STATE	ALASKA
Approved:	Resident Engineer
Date:	

Qty.	Action	Description	Date	Appvd

Alutiq
Manufacturing Contractors LLC
907.222.9000
Suite 700
Anchorage, AK 99503

3001 C Street
Anchorage, AK 99503

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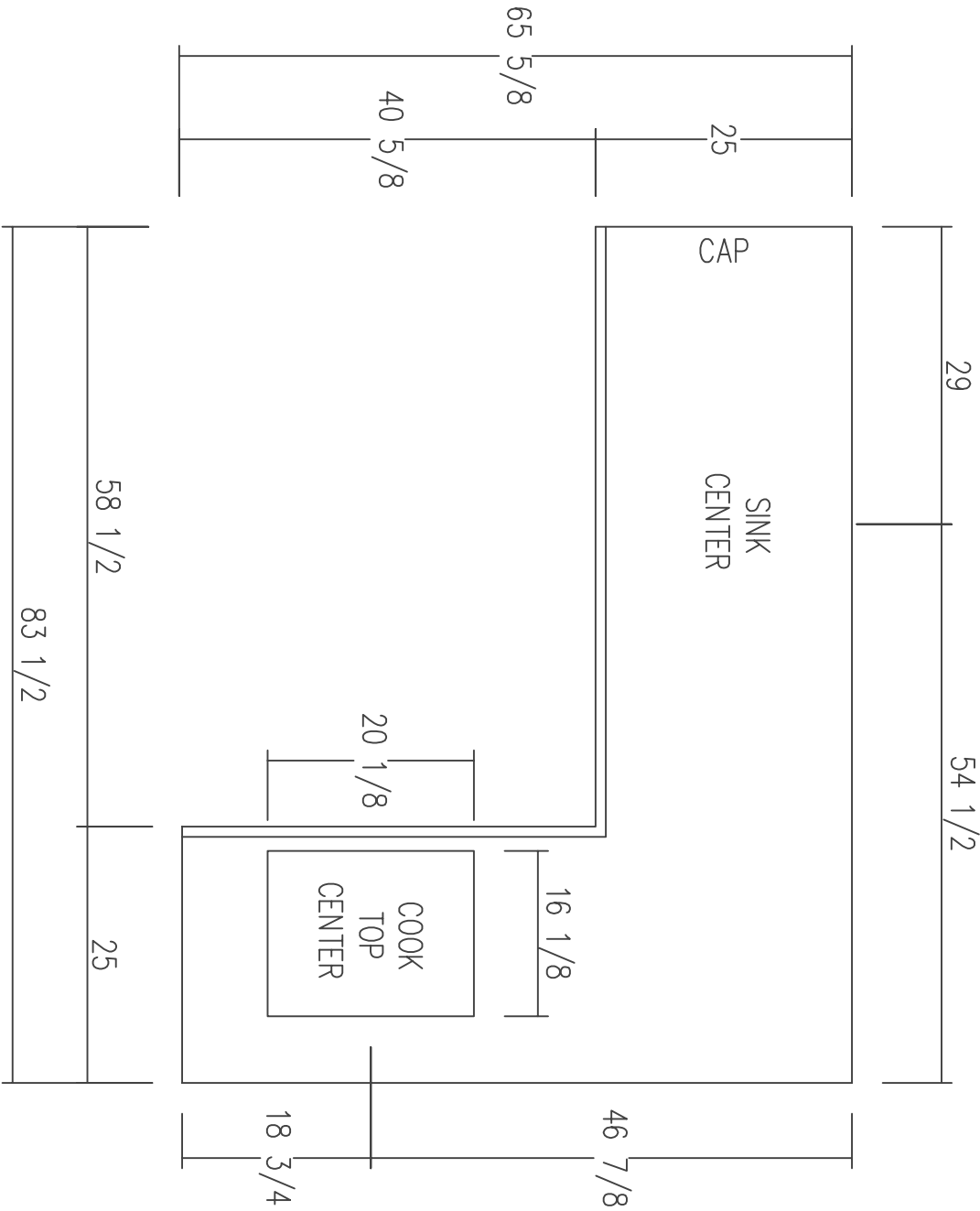
COMARK
BUILDING SYSTEMS, INC.

Designed: COMARK	Date: 9-19-09
Drawn: LHM	Proj Scale: 1:1
Reviewed: COMARK	File: FTR24516.03
Sheet: 16D	Section: 16D
Submittal: COMARK	Drawing #: 45-B-1-721-11-03
Client: COMARK	Project: W911KB-05-0009

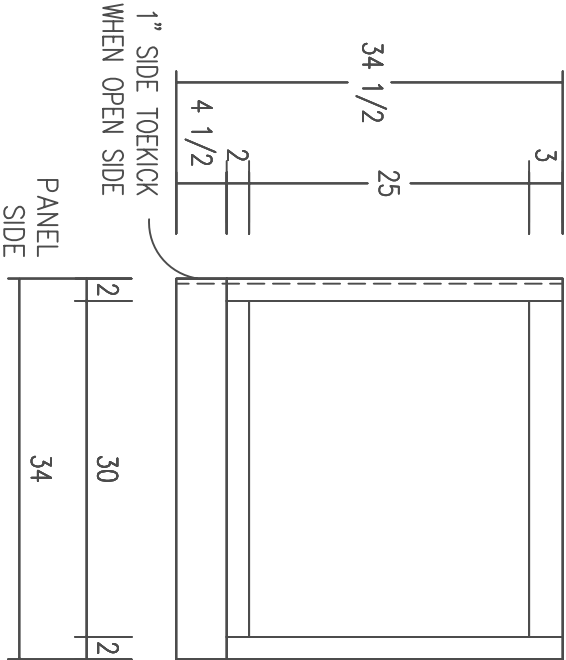
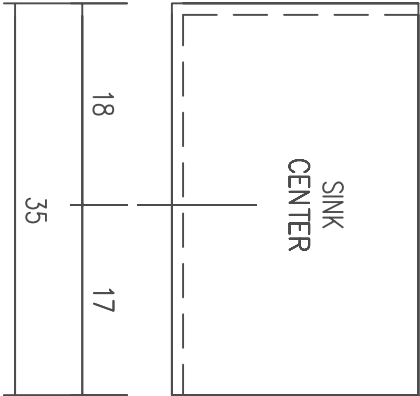
FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
ALL_BARRACKS
CODE_PLAN_1
AS_BUILT_DRAWINGS

Reference number:
16D
Sheet 35 of 50

KITCHEN COUNTER TOPS



BUILD 1 RIGHT AND 1 LEFT, SEE FLOOR PLAN



CABINET DOOR/DRAWER SIZE SCHEDULE

(A) = 11 1/2 x 19 1/2	(G) = 19 1/2 x 26 1/2	(U) = 11 1/2 x 9 3/8	(UU) = 23 x 9 3/8
(B) = 11 1/2 x 26 1/2	(H) = 15 1/2 x 43 1/2	(V) = 15 1/2 x 9 3/8	(VV) = 31 x 9 3/8
(C) = 15 1/2 x 11 1/2		(W) = 19 1/2 x 9 3/8	(WW) = 39 x 9 3/8
(D) = 15 1/2 x 19 1/2	(R) = 11 1/2 x 6	(X) = 11 1/2 x 12 3/4	(XX) = 23 x 12 3/4
(E) = 15 1/2 x 26 1/2	(S) = 15 1/2 x 6	(Y) = 15 1/2 x 12 3/4	(YY) = 31 x 12 3/4
(F) = 19 1/2 x 19 1/2	(T) = 19 1/2 x 6	(Z) = 19 1/2 x 12 3/4	(ZZ) = 39 x 12 3/4
	(RR) = 23 x 6		
	(SS) = 31 x 6		
	(TT) = 39 x 6		

Qty.	Action	Description	Date	Appvd

CONTRACT NO. W911KB-05-C-0009	CONTRACTOR ALTRIS MFG. CO., LLC	CITY ANCHORAGE STATE ALASKA	RECOMMENDED: Approved: _____ Date: _____	RESIDENT ENGINEER _____
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Alutiq
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BUILDING SYSTEMS, INC.
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Designed: COMARK

Drawn: LHM

Reviewed: COMARK

Checked: COMARK

Submitted: COMARK

Out: COMARK

File: FTR24516.05
Proj Scale: 1/8"=1'-0"
Date: 9-19-09

W911KB-05-0009	Sheet 36 of 50
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FORT_RICHARDSON_ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
ALL_BARACKS
CODE_PLAN_1
AS_BUILT_DRAWINGS

Reference number: 16E

Sheet 36 of 50

34" LAV BASE
V-134A

EXHAUST FAN SCHEDULE

EQUIP TAG	AREA SERVED	TYPE	DRIVE	CFM	ESP	RPM	SONES	HP OR WATS	ELECT	APPROX OPER WEIGHT	MANUFACTURER	MODEL #	REMARKS
EF-1	RESTROOM	CEILING	DIRECT	130	0.02"	950	2.5	1/5	120/1/60	15 LBS	NATONE	QT-104L	11 12
EF-2	RESTROOM	CEILING	DIRECT	130	0.02"	950	2.5	1/5	120/1/60	15 LBS	NATONE	QT-104L	11 12
EF-3	GENERAL	CEILING	DIRECT	130	0.35"	950	2.5	1/5	120/1/60	15 LBS	NATONE	671R	2
EF-4	GENERAL	CEILING	DIRECT	130	0.35"	950	2.5	1/5	120/1/60	15 LBS	NATONE	671R	11 14
EF-5	GENERAL	CEILING	DIRECT	150	0.125"	750	2.5	1/5	120/1/60	15 LBS	BROWN	L150	4 5

- [1] FAN CONTROLLED BY WALL MOUNTED SWITCH.
- [2] PROVIDE ROOF JACK AND FLASHING AT ROOF AS REQUIRED.
- [3] INTERLOCK WITH FURNACE SUCH THAT FURNACE AND FAN RUN CONCURRENTLY.
- [4] PROVIDE WITH MPFS WALL CAP WITH BACKDRAFT DAMPER.
- [5] FAN CONTROL BY LINE VOLTAGE THERMOSTAT MOUNTED ON WALL SET FOR 95° ON

FURNACE SCHEDULE

EQUIP TAG	AREA SERVED	TYPE	BLOWER			ELECT. CHARG	HEATING		APPROX. OIL WEIGHT	MANUFACTURER	MODEL #	REMARKS		
			CFM	ESP IN H ₂ O	MOTOR HP		V/H/PH	MC/PA					AFUE %	MBH INPUT
F-1	SEE PLANS	DOWNDRAW	775	0.70	1/5	115/1/80	5.0/15	80.0	63.0	51.0	110	DOWNER	3557T-07T-08	1
F-2	SEE PLANS	DOWNDRAW	775	0.70	1/5	115/1/80	5.0/15	80.0	63.0	51.0	110	DOWNER	3557T-07T-08	1
F-3	SEE PLANS	DOWNDRAW	500	0.70	1/5	115/1/80	5.0/15	80.0	63.0	51.0	110	DOWNER	3557T-07T-08	1

[1] PROVIDE AND INSTALL WITH 4" INSULATED VENT TO ROOF AND TERMINATE WITH CODE APPROVED VENT CAP.

HVAC ABBREVIATIONS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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NOTE: ALL ABBREVIATIONS LISTED ABOVE MAY NOT APPEAR ON THESE DOCUMENTS.

HVAC LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUCT CAP		VOLUME DAMPER		GRILLES, REGISTERS, DIFFUSERS - CALLOUT
	DUCT CAP		AUTOMATIC MOTOR OPERATED DAMPER PARALLEL AND OPPOSED BLADE		
	DUCT SIZES - FIRST DIMENSION LISTED IS V-DIMENSION		BACKDRAFT DAMPER		SECTION/DETAIL HEADING
	INTERNALLY LINED DUCT - SEE NOTES OR SPECIFICATION FOR TYPE OF LINING TO BE USED. DIMENSIONS DENOTE INTERNAL FREE AREA.		CONTROL AIR OR ZONE DAMPER		SECTION CUT
	DIRECTION OF AIRFLOW		ACCESS DOOR (AD) / ACCESS PANEL (AP)		
	ECCENTRIC TRANSITION - (FOT = FLAT ON TOP, FOB = FLAT ON BOTTOM)		F = FIRE DAMPER S = SMOKE DAMPER F AND S = FIRE AND SMOKE DAMPER SEE NOTES AND/OR SPECIFICATION FOR EXACT RATING AND MODEL NUMBERS		HUMIDISTAT, THERMISTAT - CALLOUT REFERENCES DEVICE, SEE SCHEDULES, MOUNT ALL DEVICES PER ARCHITECTURAL GUIDELINES.
	CONCENTRIC TRANSITION		TURNING VANES IN DUCTWORK		POWER OR GRANTY ROOF INTAKE/EXHAUST
	RISE OR DROP ARROW IN THE DIRECTION OF AIRFLOW		RECTANGULAR DUCT 24"x12"		EQUIPMENT TAG SYMBOL: SEE EQUIPMENT SCHEDULES FOR THE DESIGN, TYPE, AND QUANTITY.
	SUPPLY DUCT (RISE)		ROUND DUCT 24"		CEILING SUPPLY DIFFUSERS, SOUND TIL REFLECTORS BOUNDED OFF ANGLES.
	RETURN DUCT (RISE)		FLAT OVAL DUCT 24"x12"		CEILING RETURN GRILLE
	EXHAUST DUCT (RISE)		RECTANGULAR DUCT 24"x12"		CEILING EXHAUST GRILLE
	FLEX DUCT		ROUND DUCT 24"		SIGNAL SUPPLY/RETURN REGISTER, DIFFUSER, GRILLE.
	SUPPLY-IN FITTING SUPPLY		4-WAY		LINEAR SUPPLY / RETURN
	SUPPLY-IN FITTING RETURN		3-WAY		
	SUPPLY-IN FITTING RETURN		2-WAY		
	SUPPLY-IN FITTING RETURN		2-WAY (CORNER)		
	SUPPLY-IN FITTING RETURN		2-WAY (OPPOSED THROW)		
	SUPPLY-IN FITTING RETURN		EQUIPMENT TAG WAVE		
	SUPPLY-IN FITTING RETURN		SEQUENTIAL EQUIPMENT NUMBER		
	SUPPLY-IN FITTING RETURN		EQUIPMENT TAG WAVE		
	SUPPLY-IN FITTING RETURN		EQUIPMENT TAG WAVE		
	SUPPLY-IN FITTING RETURN		EQUIPMENT TAG WAVE		
	SUPPLY-IN FITTING RETURN		EQUIPMENT TAG WAVE		
	SUPPLY-IN FITTING RETURN		EQUIPMENT TAG WAVE		
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	SUPPLY-IN FITTING RETURN		EQUIPMENT TAG WAVE		
	SUPPLY-IN FITTING RETURN		EQUIPMENT TAG WAVE</		

NOTE: ALL SYMBOLS LISTED ABOVE MAY NOT APPEAR ON THESE DOCUMENTS.

A

B

C

D

E

F

G

H

US ARMY CORPS
OF ENGINEERS

CONTRACT NO. W9118B-05-C-0009	
CONTRACTOR	ALUTIA MFG. CO., LLC
CITY	ANCHORAGE
STATE	ALASKA
APPROVED:	
RESIDENT ENGINEER	
DATE:	

Qty.	Action	Description	Date	Appvd.
1	REVIEW	AS-BUILT PER OWNER WORK ORDER		

2201 C Street
Anchorage, AK
99503
907.222.9500

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BUILDING SYSTEMS, INC.
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Manufacturing Contractors LLC
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Anchorage, AK
99503
907.222.9500

Designed: COMARK	Drawn: LHM	Reviewed: COMARK	Checked: COMARK	Submitted: COMARK	CM/PI: COMARK
Date: 12-15-09	Plot Scale: 1/8"=1'-0"	Section: 1124517.0B	Branch: 40185-120-11-10	Drawing #: 40185-120-11-10	File: 1124517.0B

FORT RICHARDSON, ALASKA
FTR245 INTERIM FACILITIES
FOR AIRBORNE COMBAT BRIGADE
76 L BARRACKS
AS-BUILT-DRAWINGS
CODE PLAN_1

GENERAL NOTES:

- INSTALL ALL SHEET METAL IN ACCORDANCE WITH LATEST ASHRAE DUCT CONSTRUCTION MANUAL REQUIREMENTS. DUCT SIZE AND ADDITIONAL DUCT FITTINGS AS REQUIRED TO CLEAR OBSTRUCTIONS AND MAINTAIN CLEARANCES.
- SEE 64' UNIT FOR CRAWL SPACE HEATER.

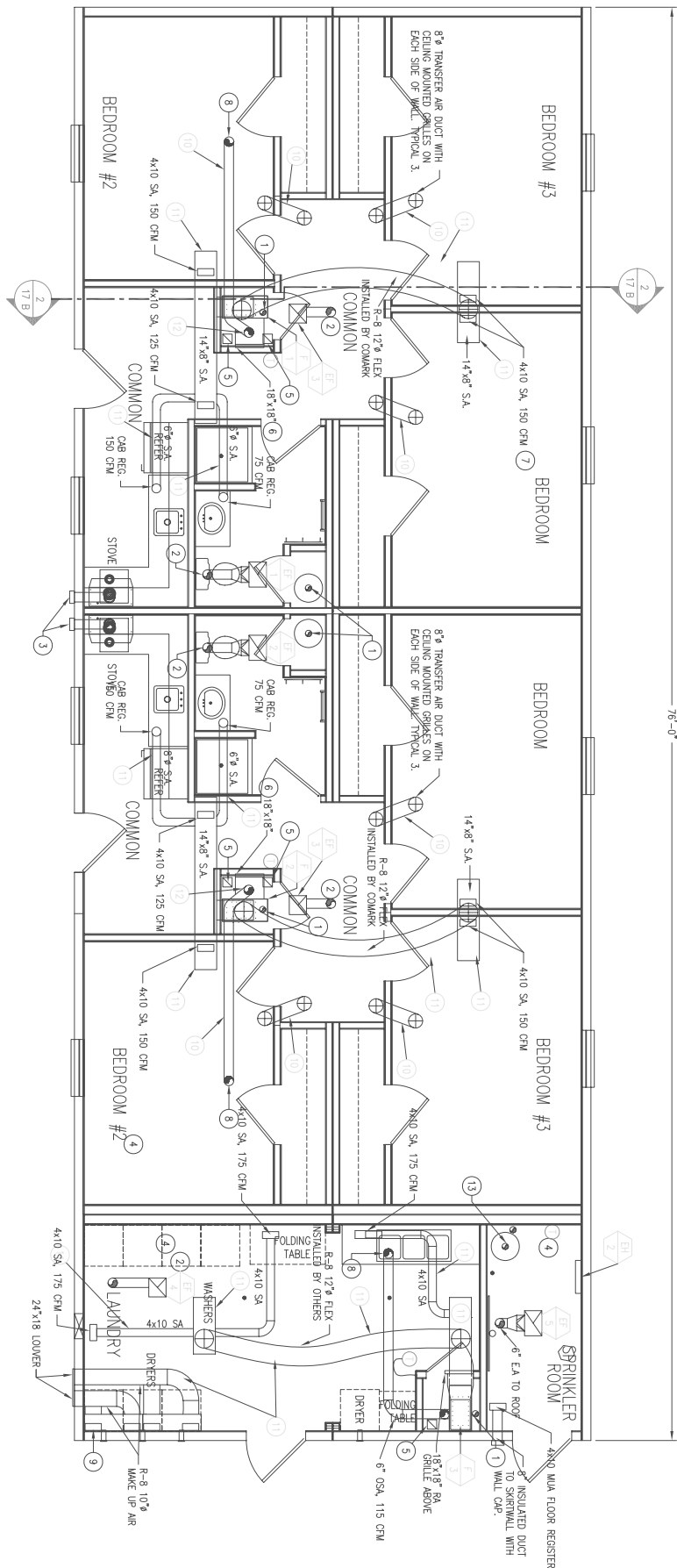
IECC MECHANICAL

NOTES:

- DUCTWORK TO BE SEALED WITH UNITED DUCT SEALER OR EQUAL. DUCT TAPE IS NOT ACCEPTABLE.
- ALL SUPPLY AND RETURN AIR DUCTS AND PLenums SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACE.
- ALL SUPPLY AND RETURN AIR DUCTS AND PLenums SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION WHEN LOCATED OUTSIDE THE BUILDING.
- DUCTS IN TEMPERED SPACES THAT SERVE THAT AREA OR DUCTS WITH A TEMPERATURE DIFFERENCE LESS THAN 15° F DO NOT REQUIRE INSULATION.
- ALL THERMOSTATS TO BE ELECTRONIC DIGITAL.

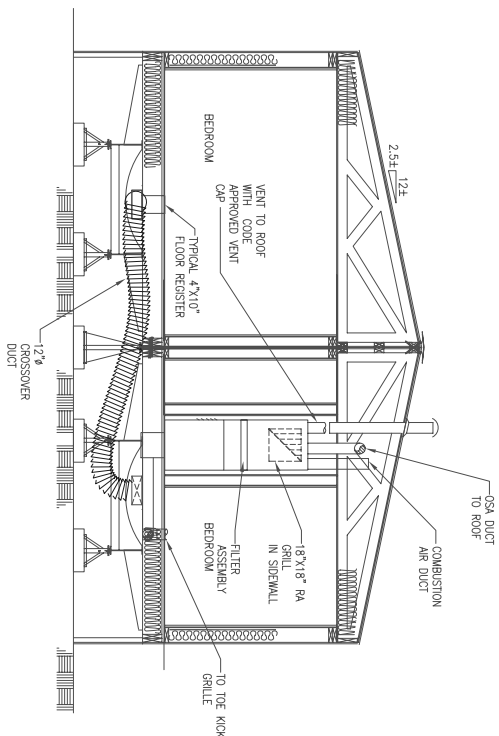
KEY NOTES:

- 4"x8" FLEX VENT TO ROOF WITH CODE APPROVED VENT CONNECTOR.
- 6"x8" G.E. UP TO ROOF. TERMINATE WITH ROOF JACK AND FLASHING AS REQUIRED. EXHAUST DUCT SHALL BE INSULATED WITH MINIMUM R-8.
- 6"x8" KITCHEN HOOD EXHAUST. TERMINATE AT SIDE OF BUILDING WITH CODE APPROVED DOWNFLOW WALL CAP.
- ACQUIL LOCATION AND SELECTION OF LINE VOLUME THERMOSTAT FOR EXHAUST FAN TO BE DETERMINED IN FIELD.
- COMBUSTION AIR DUCTS PER MANUFACTURERS INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. LOWER DUCT SHALL BE INSULATED AND ROUTED TO SHUTWALL IN FIELD BY COMMON UPPER STANDARD. EXHAUST TERMINATE PER STATE AND LOCAL CODES AND STANDARDS.
- 18"x18" COMMERCIAL GRADE RETURN GRILLE.
- SUPPLY GRILLES SHALL BE COMMERCIAL GRADE, 4"x10" (TYPICAL).
- 6"x8" OUTSIDE AIR DUCT TO ROOF WITH CODE APPROVED ROOF CAP WITH BRID SCREEN. INSULATE DUCT WITH R-8.
- 4"x10" FLOOR REGISTER WITH PLenum IN CRAWL SPACE FOR MAKE UP AIR. TYPICAL 3. ROUTE TO 10"x10" MUA DUCTS TO SIDE AS SHOWN.
- DUCT IN ATTIC SPACE.
- DUCT IN CRAWL SPACE.
- DUCT IN CONDITIONED SPACE.
- FLUE VENT AND COMBUSTION AIR DUCT TO ROOF/MU PER MANUFACTURERS LISTING. PROVIDE WITH MFR'S FILE AND COMBUSTION AIR KIT.



1 HVAC FLOOR PLAN

SCALE 1/4" = 1'-0"

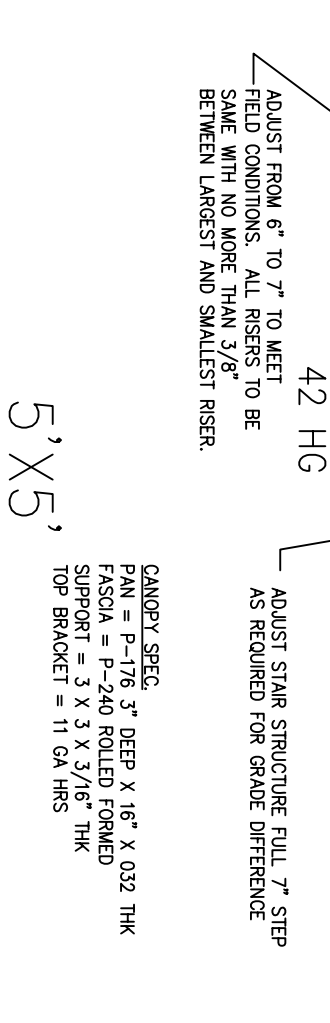
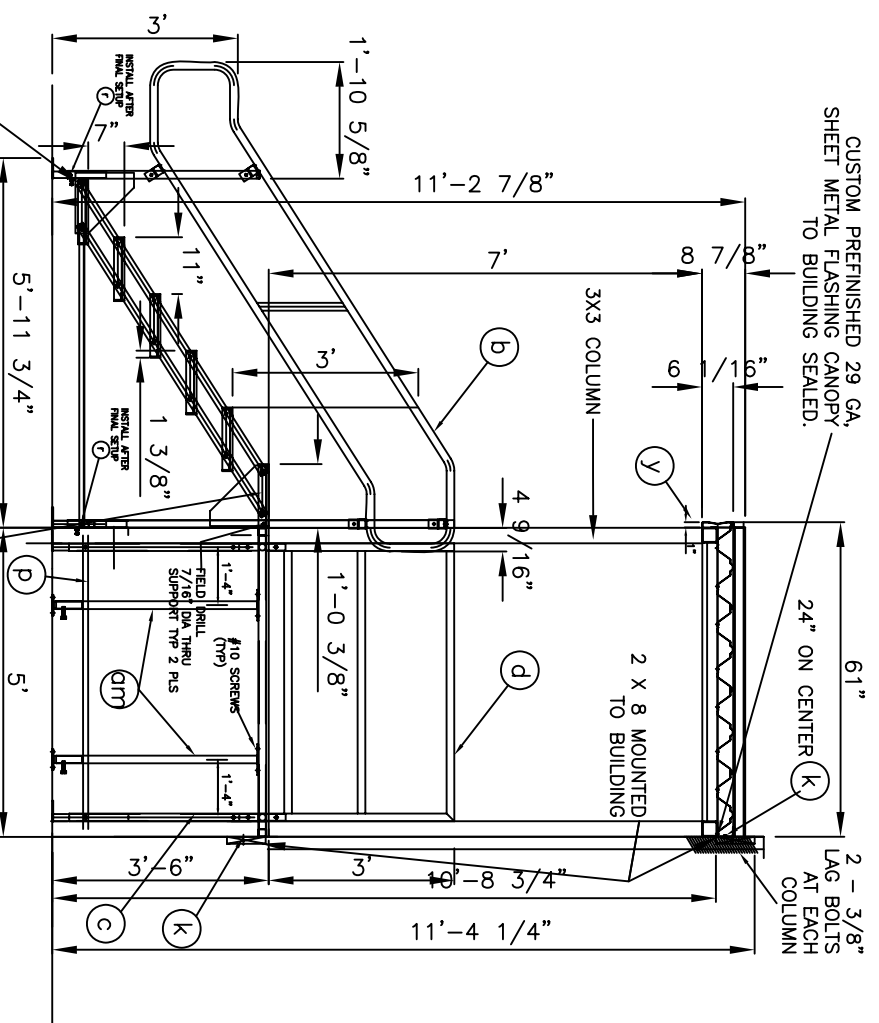
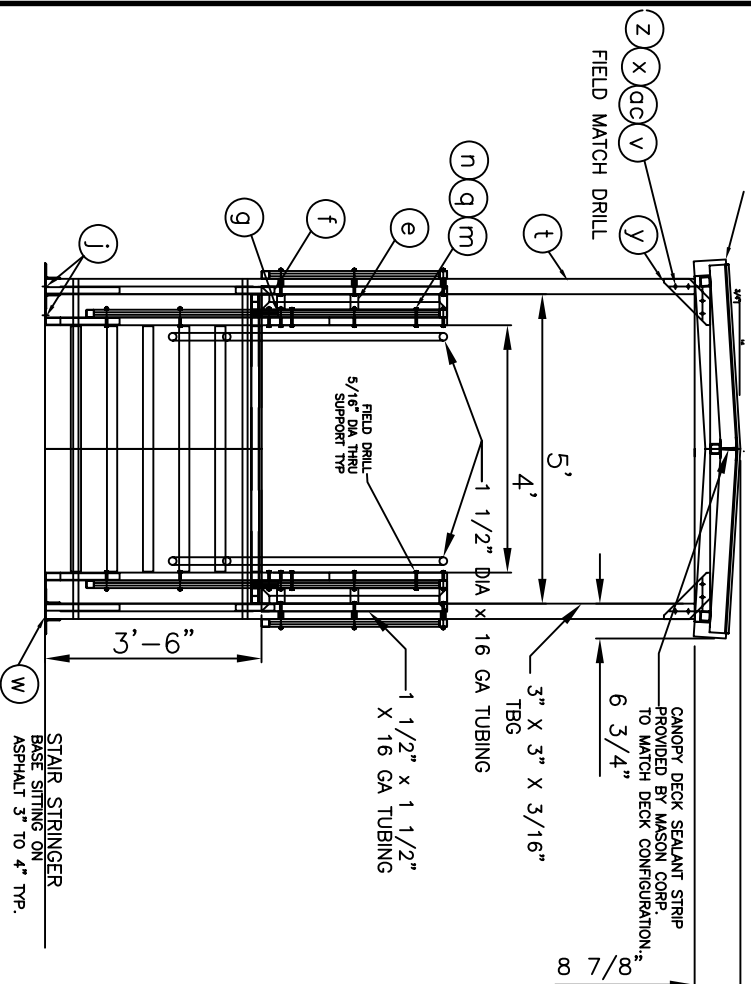
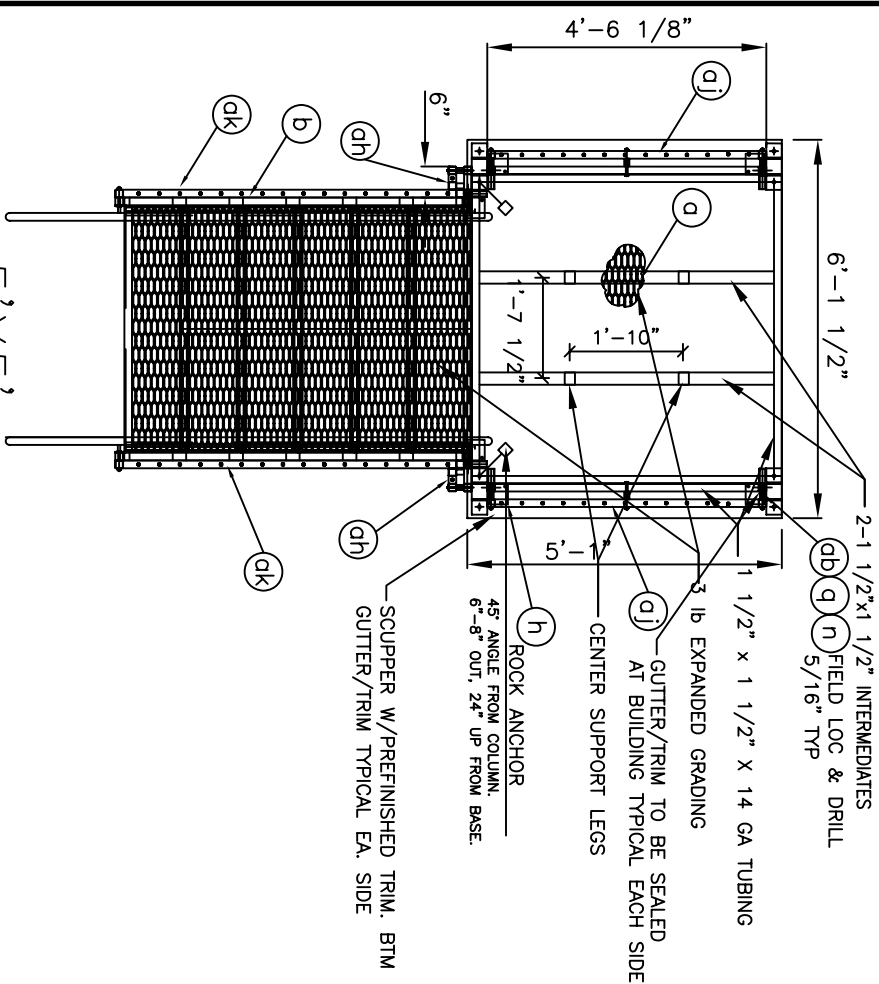


2 HVAC SECTION PLAN

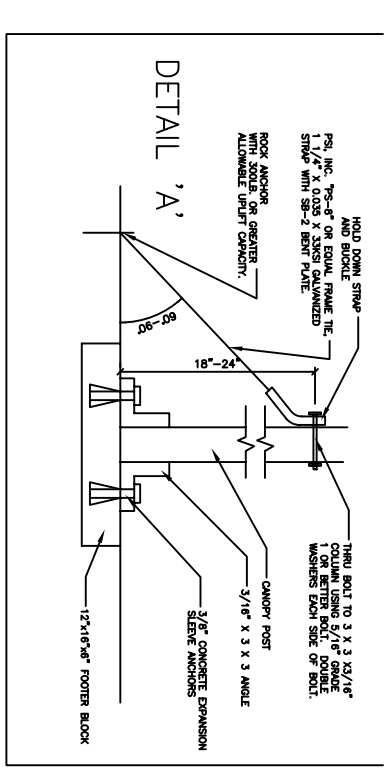
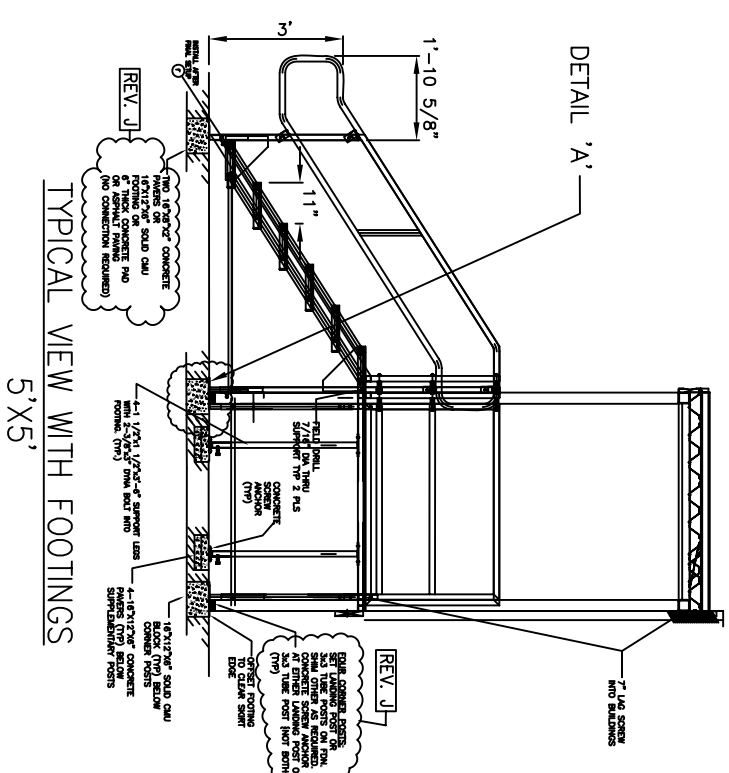
SCALE 1/4" = 1'-0"

SEE 64' BUILDING FOR CRAWLSPACE HEATER

Reference
number:
17-B
Sheet 38 of 50



J	EDIT POST: STAIR LANDING, & THE DOWN	06/12/05	SP
I	EDITED FOOTINGS BELOW STAIR & LANDING POSTS	06/13/05	SP
H	ADDED ITEMS ON THRU OK TO BOLD	07/19/05	DAW
G	RELEASED SHEETS 5, 6, 7, 8, 9, 10	06/28/05	DAM
F	RELEASE TO PRODUCTION 6 X 6, 6 X 6, 6 X 8 D.M.A. 6 X 10	06/29/05	DAM
E	RELEASE TO PRODUCTION 5 X 5	06/27/05	DAM
D	ADDED RAMP TO DMC WITH 13 GA. TREAD GIRP DECKING	5/09/05	DAM
C	CHANGED FROM 11 GA. MED. P.A.T. FIB. PLT	04/14/05	DAM
A	INITIAL RELEASE	03/28/05	DAM



em	4	4017	UNIVERSAL FOOT EXTENSION
ek	2	4016-03	42" STAIRS POCKET HANDRAIL
ej	2	4016-02	66-1/8" X 42" POCKET HANDRAIL
en	2	4016-01	4-1/2" X 42" POCKET HANDRAIL
eo	-	-	1" PIPE SCHED. 40 X 87.0
ed	2	-	ANG 1-1/2" X 1-1/2" X 3/16 THK X 2" LG
oe	16	-	3/8-16 X 3-1/2 LG CARBIDEZS ZINC PL
ob	26	-	1/4-20 X 5" LG CARBIDEZS ZINC PL
od	16	-	8/14 X 3/4 LG PAN HD TEK SCREW
z	16	-	3/8" FLAT WASHER
y	4	4006-m	CANDORY TO SUPPORT BRKT
x	16	-	3/8" LOCK WASHER SHUT
w	16	-	3/8-16 X 3/4 LG INNOVOS
v	16	-	3/8-16 NUT HEX
u	1	4003-04	CANDORY 6-1/2" X 5" X 5"-1"
t	4	4006-10	CANDORY SUPPORT
s	4	-	ANGLE 1" X 1" X 66"
r	36	-	1/4" X 3/4" LG TEK SCREWS
q	30	-	1/4-20 LOCK NUT
p	2	-	ANGLE 1" X 1" X 63"
m	30	-	1/4" FLAT WASHER
n	4	-	1/4-20 X 3-1/2 LG CARBIDEZS ZINC PL
k	5	-	3/8-16 X 6" LG SO HD LAG BOLT
j	12	-	3/8-16 X 5" LG HILLT CLIMK BOLT
h	4	4001-0	13 1/2" LEG EXTENSION
g	2	4001-B	1" BRACKET
f	4	4001-A	1" BRACKET
e	2	4002-A-024	6" HANDRAIL
d	2	4002-A-216	6" HANDRAIL
c	4	4001-E-375	LESS
b	1	4101-42	STAIRS ASSEMBLY
a	1	4004-0900	5" X 5" LANDING



PRIME CONTRACTOR	
Recommended:	
CITY	ANCHORAGE
CONTRACTOR	ALUTIA MAN. CON., LLC
CONTRACT NO. W1119-05-C-0009	
DATE	

Sym.	Action	Description	Date	Appvd
1	NOTE	FOR REVIEW	11/14/05	AK
2	NOTE	FOR CONSTRUCTION	11/14/05	AK
3	NOTE	REVISION	11/14/05	AK
4	NOTE	NO MEET FOR OWNER MARK LTR	11/14/05	AK

COMARK
DESIGN-BUILD SYSTEMS, INC.

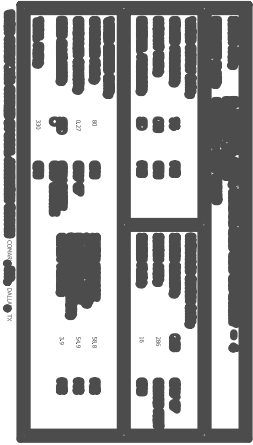
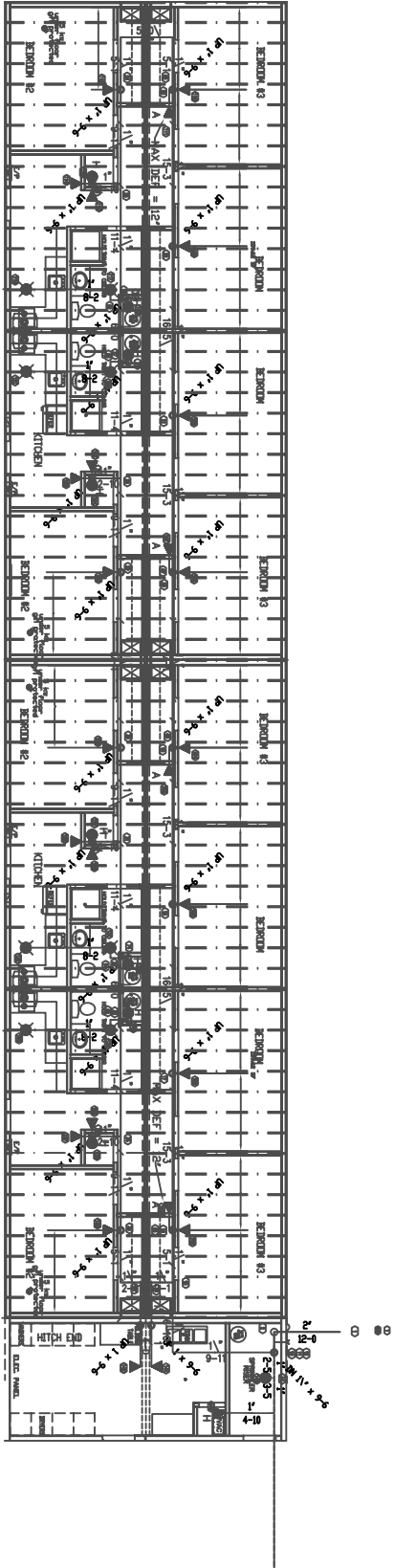
Alutia
Manufacturing Contractors LLC
907.222.9500

3201 C Street
Suite 700
Anchorage, AK 99503

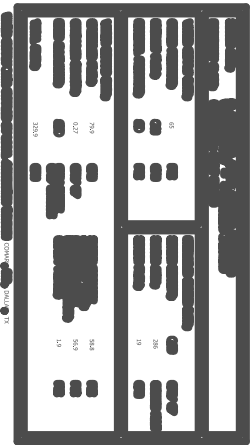
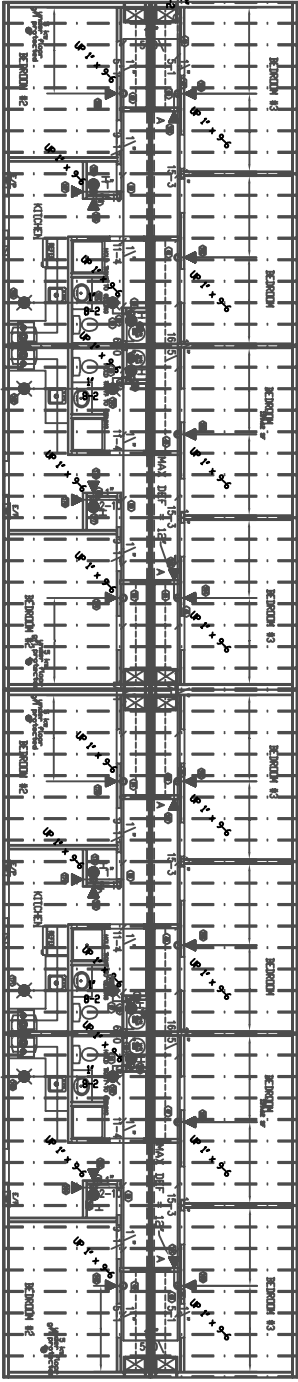
Designed: COMARK
Drawn: J. B. B.
Reviewed: COMARK
Checked: J. B. B.
Submitted: 11/14/05
Drawing #: 15-01-751-11-05

Date	11-15-05
Proj. No.	15-01-751-11-05
Proj. Name	76" BARRICKS
Proj. Location	FOR INTERIM FACILITIES
Proj. Description	AS-BUILT DRAWINGS

FOR INTERIM FACILITIES
76" BARRICKS
AS-BUILT DRAWINGS



SPRINKLER PIPING
LIVING UNITS WITHOUT LAUNDRY



SPRINKLER PIPING
LIVING UNITS WITHOUT LAUNDRY

SPRINKLER PIPING
LIVING UNITS WITHOUT LAUNDRY

KEY PLAN

A B C D E F G H



CONTRACT NO. W911MB-05-C-0009	
CONTRACTOR ALTINO MAN. CON. LLC	
CITY	ANCHORAGE
STATE	ALASKA
APPROVED:	DATE:
PRIME CONTRACTOR	RESIDENT ENGINEER

Qty.	Action	Description	Date	Appvd

3201 G Street Suite 700 Anchorage, AK 99503 Manufacturing Contractors LLC 907.222.9000 © 2005, COMARK BUILDING SYSTEMS, INC. All Rights Reserved.			
Designed: COMARK	Date: 3-10-05	Drawn: LHM	Dwg Scale: 1:1
Reviewed: COMARK	File: FTR24520.04	Section:	Sheet: INTS
Submitted: COMARK	Branch: Drawing # 15-BLT-721-11-07	Section:	Sheet: W911KB-05-0009

FORT_RICHARDSON_ALASKA	
FTR245_INTERIM_FACILITIES	
FOR_AIRBORNE_COMBAT_BRIGADE	
BARACKS	
CODE_PLAN_1	
AS-BUILT_DRAWINGS	

Reference Number:	20A
Sheet	47 of 50

A B C D E F G H



CONTRACT NO. W911MB-05-C-0009	
CONTRACTOR ALTINO MAN. CON. LLC	
CITY	ANCHORAGE
STATE	ALASKA
Approved:	Date:
PRIME CONTRACTOR	RESIDENT ENGINEER

Item	Action	Description	Date	Appvd

3201 G Street Suite 700 Anchorage, AK 99503 Manufacturing Contractors LLC 907.222.9000 © 2005, COMARK BUILDING SYSTEMS, INC. All Rights Reserved		COMARK BUILDING SYSTEMS, INC.	
Designed: COMARK	Date: 3-10-05	Drawn: LHM	Dwg Scale: 1:1
Reviewed: COMARK	Rev Scale: NTS	File: FTR24520.05	Branch: Drawing # 15-BLT-721-11-07
Submitted: COMARK	CMAT: COMARK	Section: SECTION	Branch: COMARK
W911KB-05-0009			

FORT_RICHARDSON_ALASKA	
FTR245_INTERIM_FACILITIES	
FOR_AIRBORNE_COMBAT_BRIGADE	
BARACKS	
CODE_PLAN_1	
AS-BUILT_DRAWINGS	

Reference Number:	20B
Sheet	48 of 50

A B C D E F G H



CONTRACT NO. W911MB-05-C-0009	
CONTRACTOR ALTINO MAN. CON. LLC	
CITY	ANCHORAGE
STATE	ALASKA
Approved:	Date:
PRIME CONTRACTOR	RESIDENT ENGINEER

Sym.	Action	Description	Date	Appvd

3201 G Street Suite 700 Anchorage, AK 99503 COMARK Manufacturing Contractors LLC 907.222.9000		© 2005, COMARK BUILDING SYSTEMS, INC. All Rights Reserved COMARK BUILDING SYSTEMS, INC.	
Designed: COMARK	Date: 3-10-05	Drawn: LHM	Dwg Scale: 1:1
Reviewed: COMARK	Rev Scale: NTS	File: FTR24520.00	Sheet: 20C
Submitted: COMARK	Checked: COMARK	Drawn: 16-BLT-721-11-07	Sheet: 20C

FORT_RICHARDSON_ALASKA	
FTR245_INTERIM_FACILITIES	
FOR_AIRBORNE_COMBAT_BRIGADE	
BARACKS	
CODE_PLAN_1	
AS-BUILT_DRAWINGS	

Reference Number:	20C
Sheet	49 of 50

Sym.	Action	Description	Date	Appvd.

Alutia
2201 C Street
Suite 100
Anchorage, AK 99503
907.222.9500
Manufacturing Contractors LLC
© 2005 COMARK
All Rights Reserved

Submitted: W911KB-05-0009
Drawing #: 76-01-01-11-00
Section: FTR245FA-0.1
Sheet: 43 of 50
Title: FA-0.1

FORT RICHARDSON ALASKA
FTR245 INTERIM FACILITIES
FOR AIRBORNE COMBAT BRIGADE
76 BARRACKS
CODE PLAN 1
AS BUILT DRAWINGS

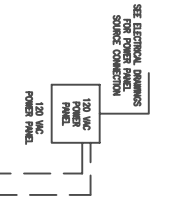
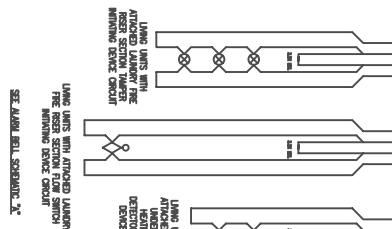
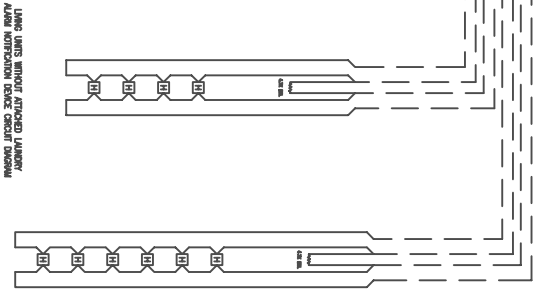
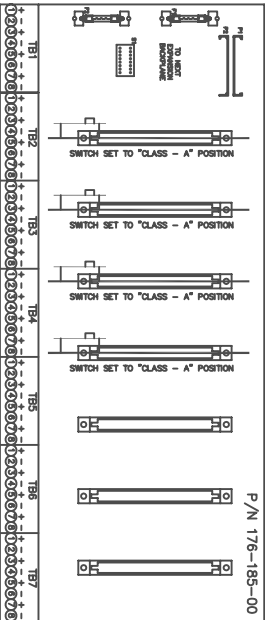
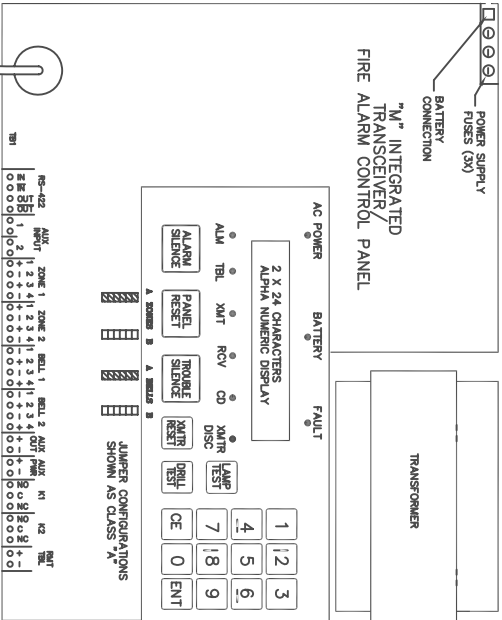
Reference number:
Fire Alarm
FA-0.1
Sheet 43 of 50

GENERAL NOTES:

- 1) PRINTS MUST BE REVIEWED FOR ACCURACY BEFORE STARTING THE JOB. ABSOLUTE ACCURACY OF THE DRAWINGS AND SPECIFICATIONS CANNOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATIONS OF EQUIPMENT & CONDUIT, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE EXACT ALL REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. CHECK ALL REQUIREMENTS AND REPORT ANY DISCREPANCIES BEFORE SUBMITTING BID OR FURNISHING AND INSTALLING WORK.
- 2) REFER TO PROJECT SPECIFICATIONS FOR FULL ELECTRICAL REQUIREMENTS.
- 3) INTERCONNECT FIRE DETECTION DEVICES THROUGH CEILING SPACE WITH TYPE EXIT CONDUIT TO INDICATED CEILING ACCESS HATCHES. INCLUDE PULL TAPE AND CAP OPEN ENDS.
- 4) INTERCONNECT FIRE DETECTION DEVICES THROUGH CRAWL SPACE, BETWEEN BUILDING UNITS
- 5) FIRE ALARM CONTROL PANEL TO BE SUPPLIED, INSTALLED, AND TESTED BY OWNER.
- 6) SMOKE DETECTOR INVACTION/ALARM DEVICE CIRCUITS TO BE CONNECTED TO THE FIRE ALARM CONTROL PANEL AND TESTED FOR PROPER OPERATION BY OWNER

LEGEND

- SMOKE DETECTOR, NON-ADDRESSABLE W/SOUNDER BASE, MONACO 723-0022-00, PROVIDE FLUSH-MOUNT BOX AT CEILING, SHIP DEVICE LOOSE IN ORIGINAL PACKAGING.
- TEMP/PAVE OR RISE DETECTOR, NON-ADDRESSABLE, MONACO 721-122-00, WITH BASE PLATE 723-098-00, PROVIDE FLUSH-MOUNT BOX AT CEILING, SHIP DEVICE LOOSE IN ORIGINAL PACKAGING.
- CO DETECTOR, MONACO 723-311-00
- PROVIDE FLUSH-MOUNT BOX 84" AFF.
- PROVIDE FLUSH-MOUNT BOX 84" AFF.
- PULL STATION / FIRE, MONACO 708-024-00
- PROVIDE FLUSH-MOUNT BOX 48" AFF.
- SHIP DEVICE LOOSE IN ORIGINAL PACKAGING.
- SPRINKLER HORN STROBE ASSY.
- MONACO 585-081-00, PROVIDE FLUSH-MOUNT BOX 84" AFF. SHIP DEVICE LOOSE IN ORIGINAL PACKAGING.
- RISER / SPRINKLER TAMPER SWITCH
- FIRE SPRINKLER RISER FLOW SWITCH
- WALL MOUNTED FLOW ALARM BELL
- END-OF-LINE DEVICE/ SUPERVISION RELAY

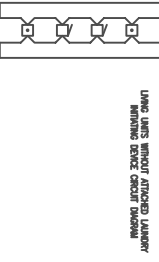


LINEG UNITS WITH ATTACHED LUNARY
WARNING DEVICE CIRCUIT DIAGRAM

LINEG UNITS WITH ATTACHED LUNARY
WARNING DEVICE CIRCUIT DIAGRAM

NOTE: SMOKE DETECTION ON THE CIRCUIT
CLASSIFICATION IS BASED ON THE
FIRE ALARM CONTROL PANEL AND
CONTROL PANEL

LINEG UNITS WITH ATTACHED LUNARY
WARNING DEVICE CIRCUIT DIAGRAM



NOTE: ELECTRICAL DRAWINGS FOR
CIRCUITRY ARE BASED ON THE
FOLLOWING ASSUMPTIONS:
1) POWER PANEL LOCATION
2) ALARM BELL POWER CIRCUIT DETAILS
3) ALARM BELL POWER CIRCUIT DETAILS
AND SOUND PRESSURE RATING
4) INSTALL ALARM BELL PER NFPA 13, 70, AND 72

ALARM BELL SCHEMATIC "A"

[illegible]

This calculator provides voltage drop calculations in three formats (Point to Point, End of Line, and Load Centering)

[illegible]

Number	Current device	Device source	Drop	The voltage calculated to the last device in any method must not be lower than
Device 1	0.00013	20.25	0.045	0.225
Device 2	0.00013	20.25	0.045	0.225

1

2


3

4

6

9

Reference number:
Fire Alarm
FA-0.2

CONTRACT NO. W51109-05-C-0009 CONTRACTOR ALTRIA MAN. CO., LLC CITY ANCHORAGE STATE ALASKA		 US ARMY CORPS OF ENGINEERS WASHINGTON, DC
RECOMMENDED BY _____ APPROVED _____ DATE _____	FIELD CONTRACTOR _____ RESIDENT ENGINEER _____	

2001 C Street Suite 700 Alpharetta, GA 30009 Manufacturing Corporation LTD (770) 222-9000	COMARK BUILDING MATERIALS, INC. 2001 COMARK BUILDING SYSTEM, INC. 2000 Peachtree Industrial Blvd., Suite 100 Atlanta, GA 30329
Date: _____ Time: 11:11 Title: Sales FTR2457A-02 Drawing #: _____	Date: _____ Time: _____ Title: _____ Drawing #: _____ W911KB-05-00009

FORT RICHARDSON ALASKA
FTR245_INTERIM_FACILITIES
FOR_AIRBORNE_COMBAT_BRIGADE
76'_BARRACKS
CODE_PLAN_1
AS_BUILT_DRAWINGS

