



Issue Date: August 5, 2025

ATTN: Vendors

RE: **Project Name:** CC - 60606 Barracks Remodel
 Project Number: 02A7823014
 Project Location(s): Camp Carroll, Joint Base Elmendorf-Richardson, Alaska

Mandatory Return Addendum # One (1)

This addendum forms a part of the contract documents and modifies the original drawings and/or specifications for the subject work. In case of conflicts between this addendum and previously issued documents, this addendum shall take precedence. This addendum WILL be submitted with the contractors bid package.

The following administrative changes have been made to this ITB:

1. This addendum is being issued to correct incorrect labeling for the following documents:
 - EEO-1 Certification (25A-304, pg. 31 of the ITB) – VETERNAS was corrected to VETERANS
 - CONTACT REPORT (25A-321A, pg. 32 of the ITB) – VETERNAS was corrected to VETERANS; signature block at bottom of page was corrected from *DOT&PF Reviewer* to *DMVA Reviewer*
 - PRIME CONTRACTOR'S WRITTEN DBE COMMITMENT (25A-326, pg. 34 of the ITB) – DOT&PF logo updated to SOA logo
 - SUMMARY OF GOOD FAITH EFFORT DOCUMENTATION (25A-332A, pg. 35 of the ITB) – DOT&PF logo updated to SOA logo
 - BUY AMERICAN REQUEST FOR TYPE 3 WAIVER (25D-153, pg. 37 of the ITB) – DOT&PF logo updated to SOA logo; FAA references were removed
 - Buy American Percentage (25D-155, pg. 39 of the ITB) – FAA references were removed
 - Buy American Preferences – Final Assembly Questionnaire (25D-156, pg. 40 of the ITB) – FAA references were removed and updated to reflect DMVA
 - CERTIFICATION OF OFFEROR/BIDDER REGARDING TAX DELINQUENCY AND FELONY CONVICTIONS (25D-159, pg. 41 of the ITB) – DOT&PF logo updated to SOA logo; FAA references were removed and updated to reflect DMVA
 - BUY AMERICAN CERTIFICATE (25D-61, pg. 48 of the ITB) – FAA references were removed and updated to reflect DMVA
 - CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY (25D-151, pg. 51 and 52 of the ITB) - FAA references were removed and updated to reflect DMVA
 - Certificate of Buy American Compliance for Manufactured Products (25D-152, pg. 53 and 54 of the ITB) - FAA references were removed and updated to reflect DMVA
 - DOCUMENT 00700 (pg. 66 of the ITB) – Header updated to reflect Department of Military and Veterans Affairs
 - DEPARTMENT (pg. 72 of the ITB) – Section updated to reflect Department of Military and Veterans Affairs



2. This addendum is being issued to reschedule the walkthrough date from Monday August 18, 2025 to Tuesday August 19, 2025 at 2:00pm Alaska Time.

Questions and Answers:

1. Can any available as-builts be provided for this project in both PDF & CAD?
A. We do not have CAD as-builts available. Please see attached .pdf as-builts.
2. Can you tell me if there will be a need for new furnishings for these barracks remodel projects? If so, will that be part of this ITB or will it be procured under a separate contract?
A. No, contractor shall remove, store and reinstall existing furniture once the project has been completed.
3. This is a good time to mention that these two ITBs appear to be missing the Disadvantaged Business Enterprise form 25A-325C.
A. This has been noted. As stated on page 21 of the ITB, Preferences WILL NOT be used in this solicitation as it is one hundred percent (100%) federally funded and thus the form will not be provided as it is not applicable under this solicitation.
4. How do we register for the walkthrough as it is on base? What is the procedure?
A. Interested bidders shall provide the project manager with the first and last name of the individual(s) attending the pre-bid walkthrough no later than 48 hours before the walkthrough. Bidders will be required to pick up their passes at the FT Rich Visitor Center on August 19, 2025. The Visitor Center is open between 9:00am and 4:30pm.
(please note: each company interested in the walkthrough shall be limited to 3 participants due to the number of passes allowed to be issued at any given time)

Please contact me if you have any questions.

Sincerely,

Gavin M. Fairbanks
Building Management Specialist
(907) 428-7187

Name of Company: _____

Signature: _____

Date: _____

End of Addendum



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

EEO-1 CERTIFICATION
Federal-Aid Contracts

CC - 60606 Barracks Remodel
02A7823014

This certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor [41 CFR 60-1.7 (b) (1)] and must be completed by the successful Bidder and each proposed Subcontractor participating in this contract.

PLEASE CHECK APPROPRIATE BOXES

The ☐ Bidder ☐ Proposed Subcontractor hereby CERTIFIES:

PART A. Bidders and proposed Subcontractors with 50 or more year-round employees and a federal contract amounting to \$50,000 or more are required to submit one federal Standard Report Form 100 during each year that the two conditions exist (50 employees and a \$50,000 federal contract).

The company named below (Part C) is exempt from the requirements of submitting the Standard Report Form 100 this year.

[] NO (go to PART B)

[] YES (go to PART C)

Instructions and blank Standard Report Form 100 may be obtained by contacting:

EEOC - Surveys Division
131 M Street, NE - Room 4SW22G
Washington, D.C. 20507
Telephone number: (877)392-4647 or (866)286-6440

PART B. The company named below has submitted the Standard Report Form 100 this year.

[] NO

[] YES

Note: Bidders and proposed Subcontractors who have not filed the required Standard Report Form 100 and are not exempt from filing requirements will not be awarded this contract or subcontract until Form 100 has been filed for the current year ending June 30.

PART C.

Signature of Authorized Company Representative

Title

Company Name

Company Address (Street or PO Box, City, State, Zip)

Date

()

Phone Number



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

CONTACT REPORT

Federal-Aid Contracts
CC - 60606 Barracks Remodel

02A7823014

Project Name and Number

Specific Work or Materials (by pay Item): _____

DBE Firm Contacted:

Name Address () Phone Number

A. INITIAL CONTACT: (See important contact information on instruction sheet)

Method:

1. Date _____ ☐ Phone ☐ Publication ☒ Email ☐ FAX ☐ Other

2. Person _____
Contacted _____
Name Title

3. DBE's Response: Date: _____ Method: ☐ Phone ☐ Email ☐ FAX ☐ Other

☐ Submitted an acceptable sub-bid. (If sub-bid accepted, skip to Section D)

☐ Not interested: Indicate Reason(s) _____

☐ Needs more information: Date Prime provided requested information _____

☐ Will provide quote by: Date _____

☐ Received unacceptable sub-bid (complete Section C)

B. FOLLOW-UP CONTACT:

Method:

1. Date _____ ☐ Phone ☐ Publication ☐ Email ☐ FAX ☐ Other

2. Person _____
Contacted _____
Name Title

3. DBE's Response: Date: _____ Method: ☐ Phone ☐ Email ☐ FAX ☐ Other

☐ Submitted an acceptable sub-bid. (If sub-bid accepted, skip to Section D)

☐ Received unacceptable sub-bid (complete Section C)

☐ Other result: _____

C. EXPLANATION OF FAILURE TO ACHIEVE AN ACCEPTABLE SUB-BID:

1. Were the following required efforts made?

a. ☐ Yes ☐ No Identified specific items of work, products, materials, etc. when asking for quote(s).

b. ☐ Yes ☐ No Offered assistance in acquiring necessary bonding, insurance, and business development related assistance.

c. ☐ Yes ☐ No Provided all appropriate information concerning the specific work items or materials.

2. Was the DBE's quote non-competitive? ☐ Yes ☐ No

3. Was the DBE unable to perform in some capacity? ☐ Yes ☐ No If "Yes", explain: _____

D. CERTIFICATION: I certify that the information provided above is accurate and that efforts to solicit sub-bids were made in good faith.

Signature of Company Representative

Title

Date

Name of DMVA Reviewer

Title

Date



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
Civil Rights Office – DBE Program

PRIME CONTRACTOR'S WRITTEN DBE COMMITMENT

Federal-Aid Contracts

CC - 60606 Barracks Remodel

02A7823014

Project Name and Number

All firms bidding on Alaska Department of Military and Veterans Affairs projects must have a written commitment from each DBE firm to be subcontracted. Please complete this form for each DBE firm and submit to the DMVA Compliance Officer.

If you have any questions, please call (907) 428-7187.

Name of DBE Firm: _____

Street Address: _____

Mailing Address: _____ City: _____

State: _____ Zip Code: _____

Telephone Number: _____ Fax number: _____

Description of the work that DBE firm will perform: _____

Please provide additional information on a separate sheet of paper.

The dollar amount of participation by the DBE firm: \$ _____

Signatures of Authorized representatives of the Prime Contractor and the DBE firm below represent the written commitment by the Prime Contractor to subcontract with the DBE firm as described above and a written commitment by the DBE firm to subcontract for the work described above:

Prime Contractor Signature

Date

DBE Firm Signature

Date

Prime Contractor Firm: _____

Address: _____

Telephone Number: _____ Fax number: _____



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

SUMMARY OF GOOD FAITH EFFORT DOCUMENTATION

Federal-Aid Contracts

CC - 60606 Barracks Remodel

02A7823014

Project Name and Number

Contractor: _____

List all items considered for DBE utilization. GFE requires at a minimum that the Contractor consider all items identified on Form 25A-324.

a. MATERIAL OR SPECIFIC ITEM OF WORK (SPECIFY PAY ITEM)	b. ACCEPTABLE DBE QUOTE RECEIVED ¹	c. # OF DBEs CONTACTED IN DBE DIRECTORY	d. # OF DBEs THAT RESPONDED ²	e. # OF DBE QUOTES RECEIVED
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
1. Check if acceptable DBE quote was received (if so, skip c, d, and e) 2. Attach completed Contact Reports, Form 25A-321A				

LIST ADDITIONAL ITEMS ON REVERSE SIDE

a. MATERIAL OR SPECIFIC ITEM OF WORK (SPECIFY PAY ITEM)	b. ACCEPTABLE DBE QUOTE RECEIVED ¹	c. # OF DBEs CONTACTED IN DBE DIRECTORY	d. # OF DBEs THAT RESPONDED ²	e. # OF DBE QUOTES RECEIVED
9.				
10.				
11.				
12.				
13.				
14.				
15.				

1. Check if acceptable DBE quote was received (if so, skip c, d, and e)

2. Attach completed Contact Reports, Form 25A-321A

Comments:



BUY AMERICAN REQUEST FOR TYPE 3 WAIVER

Federal-Aid Contracts

Project Name and Number:

CC - 60606 Barracks Remodel

02A7823014

TYPE 3 WAIVER			
LIST MATERIAL OR EQUIPMENT	COST OF U.S. STEEL AND MANUFACTURED GOODS (US)	COST OF NON- DOMESTIC STEEL OR MANUFACTURED GOODS (NON)	COST OF US STEEL OR GOODS DIVIDED BY TOTAL COST, WRITTEN AS A PERCENTAGE US/(US+NON)X(100) %

I certify under penalty of law that all steel and manufactured goods furnished for this project are produced in the United States, and comply with the requirements of 49 USC § 50101 and Contract subsection GCP 60-09 Buy American Preference; except for those steel and manufactured goods that are listed on this Request for Waiver. I understand that if Department of Military and veterans Affairs (DMVA) does not approve this Request for Waiver, I agree to fully comply with the requirements of 49 USC § 50101.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date

Signature

Company Name

Title

Form Instructions:

1. Select Type 3 Waiver to request waiver of 100% Buy American Preferences if the cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components of the facility or equipment, and final assembly of the facility or equipment has occurred in the United States.
 - a. List all product components and subcomponents that are not comprised of 100% US domestic content (Exclude products listed on the DMVA Nationwide Buy American Waivers Issued listing and products excepted by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
 - b. Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture (Department Form 25D-155).
 - c. Percentage of non-domestic component and subcomponent cost as compared to total "item" component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture (Department and Form 25D-156).
2. All waiver requests must be submitted to DMVA within 5 working days after date of notification of apparent low bidder, or as directed by the Contracting Officer.

Buy American Percentage

Company

Date:

Point of Contact
(Provide name,
address,
telephone, fax, e
mail)

PRODUCT STRUCTURE

Multi-Level Bill of Materials through level 2 only

Item:
DMVA Item Number

Address of Final Assembly Location:

Total Material Cost	
US Content, %	
Other, %	

[illegible]

Level Descriptions: Level 0 is the final product, Level 1 are components, and Level 2 are sub-components.

* Items Listed in Federal Acquisition Regulation Part 25.104 may be counted as US Origin, however should include note stating that item is exempt in 25.104

Buy American Preferences - Final Assembly Questionnaire

Federal-Aid Contracts

To assist the Department of Military and Veterans Affairs (DMVA) in making the determination of whether final assembly of the product occurs in the United States, please complete and submit this questionnaire when requesting a Buy American Waiver under 49 U.S.C. 50101(b)(3)(A).

1. Describe the assembly process occurring at the specified final location in the United States.

Please describe the final assembly process and its various operations.

How long does the final assembly process take to complete?

2. Describe the resources used to conduct the assembly of the product at the specified location in the United States.

How many employees are involved in the final assembly process and what is the general skill level of those employees?

What type of equipment is used during the final assembly process?

What is a rough estimate of the associated cost to conduct final assembly of the product at the specified location in the United States?



**STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS**

**CERTIFICATION OF OFFERER/BIDDER REGARDING TAX DELINQUENCY AND
FELONY CONVICTIONS**

Region

Project Name: CC - 60606 Barracks Remodel

As a condition of bid responsiveness on Federal funded projects, the bidder must complete, sign, date, and submit this certification statement with their proposal. As a condition of approval of Subcontracts on Federal funded projects, the Subcontractor or Lower Tier Subcontractor must complete, sign, and date the certification statements and the Contractor must submit the certifications with the subcontracts for approval.

The Applicant must complete the following two certification statements. **The Applicant must indicate its current status as it relates to tax delinquency and felony conviction by inserting a checkmark (✓) in the space following the applicable response.** If the Contract is awarded, the Applicant agrees it will incorporate this provision for certification in all subcontracts and lower tier subcontracts.

Certifications

- a) The Applicant represents that it is ☐ is not ☐ a corporation that has any Federal Tax Delinquency, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.
- b) The Applicant represents that it is ☐ is not ☐ a corporation that has a Felony Conviction under any Federal law within the preceding 24 months.

Note

If an Applicant responds in the affirmative to either of the above representations, the Applicant is ineligible to receive an award (or a proposed subcontract award, as applicable) unless the Department has received notification from the DMVA suspension and debarment official (SDO) that the SDO has considered suspension or debarment and determined that further action is not required to protect the Government's interests. The applicant therefore must provide information to the Department about its tax liability or conviction to the Department.

Definitions

Applicant: The Bidder before award of contract. The Contractor, Subcontractor, and Lower Tier Subcontractor after award.

Suspension and Debarment Official (SDO): An official in the DMVA Office that has authority to determine whether an Applicant is suspended or debarred from performing the federally funded work.

Felony conviction: Felony conviction means a conviction within the preceding twenty four (24) months of a felony criminal violation under any Federal law and includes conviction of an offense defined in a section of the U.S. code that specifically classifies the offense as a felony and conviction of an offense that is classified as a felony under 18 U.S.C. § 3559.

Tax Delinquency: A tax delinquency is any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

False Statements: Per 49 USC § 47126, this certification concerns a matter within the jurisdiction of the Department of Military and Veterans Affairs and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

BUY AMERICAN CERTIFICATE

Federal-Aid Contracts

CC - 60606 Barracks Remodel

02A7823014

By submitting a bid under this solicitation, except for those items listed by the offeror below or on a separate and clearly identified attachment, the offeror certifies that steel and each manufactured product is produced in the United States (as defined in Subsection 60-09, Buy American Steel and Manufactured Products for Construction Contracts) and that components of unknown origin are considered to have been produced or manufactured outside the United States.

Attach manufacturer's mill test reports with the Buy American Certification signed by the manufacturer.

Articles, materials, and supplies excepted from this provision are listed on the reverse of this form.

PRODUCT ¹	COUNTRY OF ORIGIN

Contractor

Signature of Contractor's Representative

Date

1. Enter "NONE" on the first line if there are no exceptions.



STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
CERTIFICATE OF BUY AMERICAN COMPLIANCE FOR TOTAL FACILITY

CC - 60606 Barracks Remodel

02A7823014

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with its proposal. The bidder or offeror must indicate how it intends to comply with 49 USC § 50101 by selecting one of the following certification statements. These statements are mutually exclusive.

Bidder must select one or the other (i.e. not both) by inserting a checkmark (✓) or the letter "X".

☐ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:

- a) Only installing steel and manufactured products produced in the United States;
- b) Installing manufactured products for which the Department of Military and Veterans Affairs has issued a waiver as indicated by inclusion on the current DMVA Nationwide Buy American Waivers Issued listing; or
- c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- d) To provide to the Department evidence that documents the source and origin of the steel and manufactured product (accompanied by Department Form 25D-154).
- e) To faithfully comply with providing U.S. domestic products.
- f) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the DMVA determines justified.

☐ The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for a Type 3 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:

- a) To submit to the Department within 5 working days after date of notification of apparent low bidder, a formal waiver request (using Department Form 25D-153) and required documentation that supports the type of waiver being requested.
- b) That failure to submit the required documentation within the specified timeframe is cause for a nonresponsible determination that may result in rejection of the proposal.
- c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the DMVA.
- d) To furnish U.S. domestic product for any waiver request that the DMVA rejects.
- e) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the DMVA determines justified.

Required Documentation

Type 3 Waiver - The cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the “facility”. Use Department Forms 25D-153, 25D-155 and 25D-156 to summarize product data. The required documentation for a Type 3 waiver is:

- a) Listing of all manufactured products that are not comprised of 100 percent U.S. domestic content (excludes products listed on the DMVA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly and installation at project location.
- c) Percentage of non-domestic component and subcomponent cost as compared to total “facility” component and subcomponent costs, excluding labor costs associated with final assembly and installation at project location.

False Statements: Per USC § 47126, this certification concerns a matter within the jurisdiction of the Department of Military and Veterans Affairs and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title



**STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS**

Certificate of Buy American Compliance for Manufactured Products

CC - 60606 Barracks Remodel

02A7823014

As a matter of bid responsiveness, the bidder or offeror must complete, sign, date, and submit this certification statement with their proposal. The bidder or offeror must indicate how they intend to comply with 49 USC § 50101 by selecting one on the following certification statements. These statements are mutually exclusive. Bidder must select one or the other (not both) by inserting a checkmark (✓) or the letter "X".

- ☐ Bidder or offeror hereby certifies that it will comply with 49 USC § 50101 by:
- a) Only installing steel and manufactured products produced in the United States;
 - b) Installing manufactured products for which the Department of Military and Veterans Affairs has issued a waiver as indicated by inclusion on the current DMVA Nationwide Buy American Waivers Issued listing; or
 - c) Installing products listed as an Excepted Article, Material or Supply in Federal Acquisition Regulation Subpart 25.108.

By selecting this certification statement, the bidder or offeror agrees:

- d) To provide to the Department evidence that documents the source and origin of the steel and manufactured product (accompanied by Department Form 25D-154);
 - e) To faithfully comply with providing U.S. domestic product;
 - f) To furnish U.S. domestic product for any waiver request that the DMVA rejects; and
 - g) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the DMVA determines justified.
- ☐ The bidder or offeror hereby certifies it cannot comply with the 100 percent Buy American Preferences of 49 USC § 50101(a) but may qualify for a Type 3 waiver under 49 USC § 50101(b). By selecting this certification statement, the apparent bidder or offeror with the apparent low bid agrees:
- a) To submit to the Department within 5 working days after date of notification of apparent low bidder, a formal waiver request (using Department Form 25D-153) and required documentation that supports the type of waiver being requested.
 - b) That failure to submit the required documentation within the specified timeframe is cause for a nonresponsible determination that may result in rejection of the proposal.
 - c) To faithfully comply with providing U.S. domestic products at or above the approved U.S. domestic content percentage as approved by the DMVA.
 - d) To refrain from seeking a waiver request after establishment of the contract, unless extenuating circumstances emerge that the DMVA determines justified.

Required Documentation

Type 3 Waiver - The cost of the item components and subcomponents produced in the United States is more than 60 percent of the cost of all components and subcomponents of the “item”. Use Department Forms 25D-153, 25D-155 and 25D-156 to summarize product data. The required documentation for a Type 3 waiver is:

- a) Listing of all product components and subcomponents that are not comprised of 100 percent U.S. domestic content (Excludes products listed on the DMVA Nationwide Buy American Waivers Issued listing and products excluded by Federal Acquisition Regulation Subpart 25.108; products of unknown origin must be considered as non-domestic products in their entirety).
- b) Cost of non-domestic components and subcomponents, excluding labor costs associated with final assembly at place of manufacture.
- c) Percentage of non-domestic component and subcomponent cost as compared to total “item” component and subcomponent costs, excluding labor costs associated with final assembly at place of manufacture.

False Statements: Per USC § 47126, this certification concerns a matter within the jurisdiction of the Department of Military and Veterans Affairs and the making of a false, fictitious or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code.

Date

Signature

Company Name

Title

**STATE OF ALASKA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
DOCUMENT 00700 - ISSUED DECEMBER 2011**

GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT FOR BUILDINGS

ARTICLE 1 - DEFINITIONS

ARTICLE 2 - AUTHORITIES AND LIMITATIONS

- 2.1 Authorities and Limitations
- 2.2 Evaluations by Contracting Officer
- 2.3 Means and Methods
- 2.4 Visits to Site

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

- 3.1 Incomplete Contract Documents
- 3.2 Copies of Contract Documents
- 3.3 Scope of Work
- 3.4 Intent of Contract Documents
- 3.5 Discrepancy in Contract Documents
- 3.6 Clarifications and Interpretations
- 3.7 Reuse of Documents

ARTICLE 4 - LANDS AND PHYSICAL CONDITIONS

- 4.1 Availability of Lands
- 4.2 Visit to Site/Place of Business
- 4.3 Explorations and Reports
- 4.4 Utilities
- 4.5 Damaged Utilities
- 4.6 Utilities Not Shown or Indicated
- 4.7 Survey Control

ARTICLE 5 - BONDS AND INSURANCE

- 5.1 Delivery of Bonds
- 5.2 Bonds
- 5.3 Replacement of Bond and Surety
- 5.4 Insurance Requirements
- 5.5 Indemnification

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES

- 6.1 Supervision of Work
- 6.2 Superintendence by CONTRACTOR
- 6.3 Character of Workers
- 6.4 CONTRACTOR to Furnish
- 6.5 Materials and Equipment
- 6.6 Anticipated Schedules
- 6.7 Finalizing Schedules
- 6.8 Adjusting Schedules
- 6.9 Substitutes or "Or-Equal" Items
- 6.10 Substitute Means and Methods
- 6.11 Evaluation of Substitution
- 6.12 Dividing the Work
- 6.13 Subcontractors
- 6.14 Use of Premises
- 6.15 Structural Loading
- 6.16 Record Documents

Contract Documents - The Contract form, Addenda, the bidding requirements and CONTRACTOR's bid (including all appropriate bid tender forms), the bonds, the Conditions of the Contract and all other Contract requirements, the Specifications, and the Drawings furnished by the DEPARTMENT to the CONTRACTOR, together with all Change Orders and documents approved by the Contracting Officer, for inclusion, modifications and supplements issued on or after the Effective Date of the Contract.

Contracting Officer - The person authorized by the Commissioner to enter into and administer the Contract on behalf of the DEPARTMENT. He has authority to make findings, determinations and decisions with respect to the Contract and, when necessary, to modify or terminate the Contract. The Contracting Officer is identified on the construction Contract.

CONTRACTOR - The individual, firm, corporation or any acceptable combination thereof, contracting with the DEPARTMENT for performance of the Work.

Contract Price - The total moneys payable by the DEPARTMENT to the CONTRACTOR under the terms of the Contract Documents.

Contract Time - The number of Calendar Days following issuance of Notice-to-Proceed in which the project shall be rendered Substantially Complete, or if specified as a calendar date, the Substantial Completion date specified in the Contract Documents

Controlling Item - Any feature of the Work on the critical path of a network schedule.

Defective - Work that is unsatisfactory, faulty or deficient, or does not conform to the Contract Documents.

DEPARTMENT - The Alaska Department of Military and Veterans Affairs. References to "Owner", "State", "Contracting Agency", mean the DEPARTMENT.

Directive - A written communication to the CONTRACTOR from the Contracting Officer interpreting or enforcing a Contract requirement or ordering commencement of an item of Work.

Drawings - The Drawings which show the character and scope of the Work to be performed and which have been furnished by the DEPARTMENT or the DEPARTMENT's Consultant and are by reference made a part of the Contract Documents.

ENGINEER - The DEPARTMENT'S authorized representative of the Contracting Officer, as defined in the DEPARTMENT'S *delegation of authority letter* to be issued after notice-to-proceed, who is responsible for administration of the contract.

Equipment - All machinery together with the necessary supplies for upkeep and maintenance, and also tools and apparatus necessary for the proper construction and acceptable completion of the work.

Final Acceptance - The DEPARTMENT's written acceptance of the Work following Final Completion and the performance of all Contract requirements by the CONTRACTOR.

Final Completion - The Project (or specified part thereof) has progressed to the point that all required Work is complete as determined by the Contracting Officer.

Furnish - To procure, transport, and deliver to the project site materials, labor, or equipment, for installation or use on the project.

General Requirements - Sections of Division 1 of the Specifications which contain administrative and procedural requirements as well as requirements for temporary facilities which apply to Specification Divisions 2 through 16.

BUILDING #60606 ADDITION

CONTRACT # W91ZRU-10-D-0006-0012

ALASKA ARMY NATIONAL GUARD
CAMP CARROLL, JBER, ALASKA

100% DESIGN REVIEW

DRAWING INDEX

GENERAL

G1 COVER SHEET

ARCHITECTURAL

A1.1 SPECIFICATIONS
A1.2 SPECIFICATIONS
A2.1 SITE PLAN
A2.2 FLOOR PLAN
A2.3 ENLARGED FLOOR PLANS AND DETIALS
A3 ELEVATIONS AND SECTIONS
A4 SCHEDULES, DOOR AND WINDOW TYPES

STRUCTURAL

S0.1 STRUCTURAL NOTES
S1.1 FOUNDATION PLAN, INSULATION PLAN
S2.1 FOUNDATION DETAILS

MECHANICAL

M0.1 LEGEND AND SCHEDULES
M0.2 MECHANICAL SPECIFICATIONS
M1.1 UNDERFLOOR PLUMBING PLAN
M1.2 ABOVE FLOOR PLUMBING PLAN
M2.1 VENTILATION PLAN
M3.1 MECHANICAL DETAILS

ELECTRICAL

E0.1 ELECTRICAL LEGEND, SCHEDULES, SITE PLAN AND DETAILS
E0.2 ELECTRICAL SPECIFICATIONS AND SCHEDULE
E1.1 LIGHTING PLAN
E2.1 POWER PLAN

FIRE ALARM

FA-1 65% DRAWINGS FLOOR PLANS
FA-2 65% DETAIL DRAWING

FIRE PROTECTION

FP-1 FIRE SPRINKLER SPECIFICATIONS
FP-2 SPRINKLER SITE PLAN, BUILDING SECTION, AND DETAILS
FP-3 FIRE SPRINKLER LAYOUT
FP-4 FIRE SPRINKLER LAYOUT

CODE DATA

BUILDING CODE ANALYSIS

A. OCCUPANCY CLASSIFICATION:	RESIDENTIAL GROUP R-1		
B. OCCUPANCY SEPARATIONS:	PER IBC 2009 PAR. 420.2 FIRE PARTITIONS REQUIRED BETWEEN SLEEPING UNITS		
C. ALLOWABLE FLOOR AREA FOR NON-SPRINKLERED BUILDING (TABLE 503):	7,000 SF		
D. AREA INCREASE FOR SPRINKLERED BUILDING (506.3):	21,000 SF (1 STORY)		
ACTUAL BUILDING AREAS OF THIS PROJECT:	NEW 1st FLOOR	2,816 SF	
	EXISTING 1st FLOOR	<u>2,057 SF</u>	
	TOTAL	4,873 SF	
E. ALLOWABLE NO. OF STORIES: (TABLE 503)	TYPE V B CONSTRUCTION ALLOWABLE STORIES:		
F. ALLOWABLE HEIGHT:	TYPE V B CONSTRUCTION ALLOWABLE: 40 FT AVERAGE ROOF HEIGHT = 13'-7" THE AVERAGE HEIGHT CALCULATION ESTIMATED FROM DESIGN DRAWINGS FOR NEW STRUCTURE (SLIGHTLY HIGHER THAN EXISTING) BETWEEN GRADE PLANE AND THE AVERAGE HEIGHT OF SLOPING ROOF.		
G. FIRE RESISTANCE RATING REQUIREMENTS PER TABLE 601:	TYPE V B - CONSTRUCTION STRUCTURAL FRAME 0 HR BEARING WALLS (EXT.) 1 HR (TABLE 602 - SEPARATION 10 FT.) BEARING WALLS (INT.) 0 HR NON-BEARING EXT. WALLS 1 HR (TABLE 602 FIRE SEPARATION 10 FT.) NON-BEARING INT. WALLS 30 MIN. (PER 420.2 WITH SPRINKLER SYSTEM PER NFPA 13) FLOOR CONSTRUCTION 0 HR ROOF CONSTRUCTION 0 HR		

CODES AND STANDARDS

BUILDING CODES & STANDARDS ADOPTED BY THE
STATE OF ALASKA AS ADOPTED AND AMENDED.

INTERNATIONAL BUILDING CODE (IBC) 2009 EDITION WITH
STATE OF ALASKA AMENDMENTS. 13 AAC 50.010
(www.dps.state.ak.us/fire)
INTERNATIONAL FIRE CODE (IFC) 2009
INTERNATIONAL FUEL GAS CODE 2009
INTERNATIONAL MECHANICAL CODE (IMC) 2009

CODES AND STANDARDS

UNIFORM PLUMBING CODE (UPM) 2009 EDITION
WITH STATE OF ALASKA DEPARTMENT OF LABOR
AMENDMENTS
NATIONAL ELECTRICAL CODE (NEC) 2009 WITH STATE
OF ALASKA DEPARTMENT OF LABOR AMENDMENTS
ARCHITECTURAL BARRIERS ACT (ALASKA STATUTE
35.10.015)
TITLE 17 ALASKA ADMINISTRATIVE CODE 50.010
18 AAC 30, ALASKA DEPARTMENT OF ENVIRONMENTAL
CONSERVATION
APPLICABLE FEDERAL LAWS, REGULATIONS AND
OTHER NATIONAL ASSOCIATION STANDARDS:
AMERICANS WITH DISABILITIES ACT
(PUBLIC LAW 101-336) 2010 STANDARDS
FOR ACCESSIBILITY DESIGN
NATIONAL FIRE PREVENTION ASSOCIATION (NFPA)
STANDARDS AS REFERENCED IN THE TECHNICAL
SPECIFICATION SECTIONS OR ON THE DRAWINGS
OSHA GENERAL INDUSTRY SAFETY AND HEALTH
STANDARDS (29 CFR 1910) PUBLICATION V2206
NATIONAL EMISSION STANDARDS FOR HAZARDOUS
AIR POLLUTANTS (40 CFR, PART 61)
ENVIRONMENTAL PROTECTION AGENCY (EPA) FINAL
RULE (40 CFR, PART 761)
UNIFIED FACILITIES CRITERIA (UFC):
3-600-01 FIRE PROTECTION ENGINEERING FOR FACILITIES
4-010-01 DOD MINIMUM ANTITERRORISM STANDARDS FOR
BUILDINGS
3-530-01 DESIGN: INTERIOR AND EXTERIOR LIGHTING
AND CONTROLS
3-310-04 SEISMIC DESIGN FOR BUILDINGS
3-301-01 STRUCTURAL ENGINEERING
AR-190-51 SECURITY OF ARMY PROPERTY (SENSITIVE
AND NONSENSITIVE)
NG PAM 415-5 ARMY NATIONAL GUARD GENERAL
FACILITIES INFORMATION DESIGN GUIDE
NG PAM 415-12 ARMY NATIONAL GUARD FACILITIES
ALLOWANCES
THE FOLLOWING INDUSTRY INSTITUTE AND ASSOCIATION
PUBLICATIONS SHALL BE USED AS MINIMAL STANDARDS
WHERE APPLICABLE.

AMERICAN IRON AND STEEL INSTITUTE
AMERICAN INSTITUTE FOR STEEL CONSTRUCTION
AMERICAN SOCIETY FOR TESTING AND MATERIALS
AMERICAN WELDING SOCIETY
PORTLAND CEMENT ASSOCIATION
NATIONAL BOARD OF FIRE UNDERWRITERS
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NATIONAL FIRE PROTECTION AGENCY
UNDERWRITERS LABORATORY STANDARDS FOR SAFETY

100% DESIGN REVIEW

PROJECT TEAM

PROJECT MANAGEMENT & GENERAL CONSTRUCTION

H. WATT & SCOTT INC.
10360 Nigh Road
Anchorage, Alaska 99515
Project Mgr: Craig Watts

TEL: (907) 344-6628
FAX: (907) 344-5360
EMAIL: craig@hwatt.com

ARCHITECTURE

GDM, INC.
4600 Business Park Blvd., Suite 24
Anchorage, Alaska 99503-7152

TEL: (907) 562-0422
FAX: (907) 562-0448
EMAIL: gdmanc@ak.net

STRUCTURAL ENGINEERING

OIEN ASSOCIATES, INC.
16922 Hanson Drive
Eagle River, Alaska 99577

TEL: (907) 694-0507
FAX: (907) 694-0508
EMAIL: boien@alaska.net

MECHANICAL & ELECTRICAL ENGINEERING

RSA ENGINEERING, INC.
191 Swanson Avenue, Suite 101
Wasilla, AK 99654

TEL: (907) 357-1521
FAX: (907) 257-1751

FIRE PROTECTION

CHINOOK FIRE PROTECTION, INC.
12651 Old Seward Highway
Anchorage, Alaska 99515

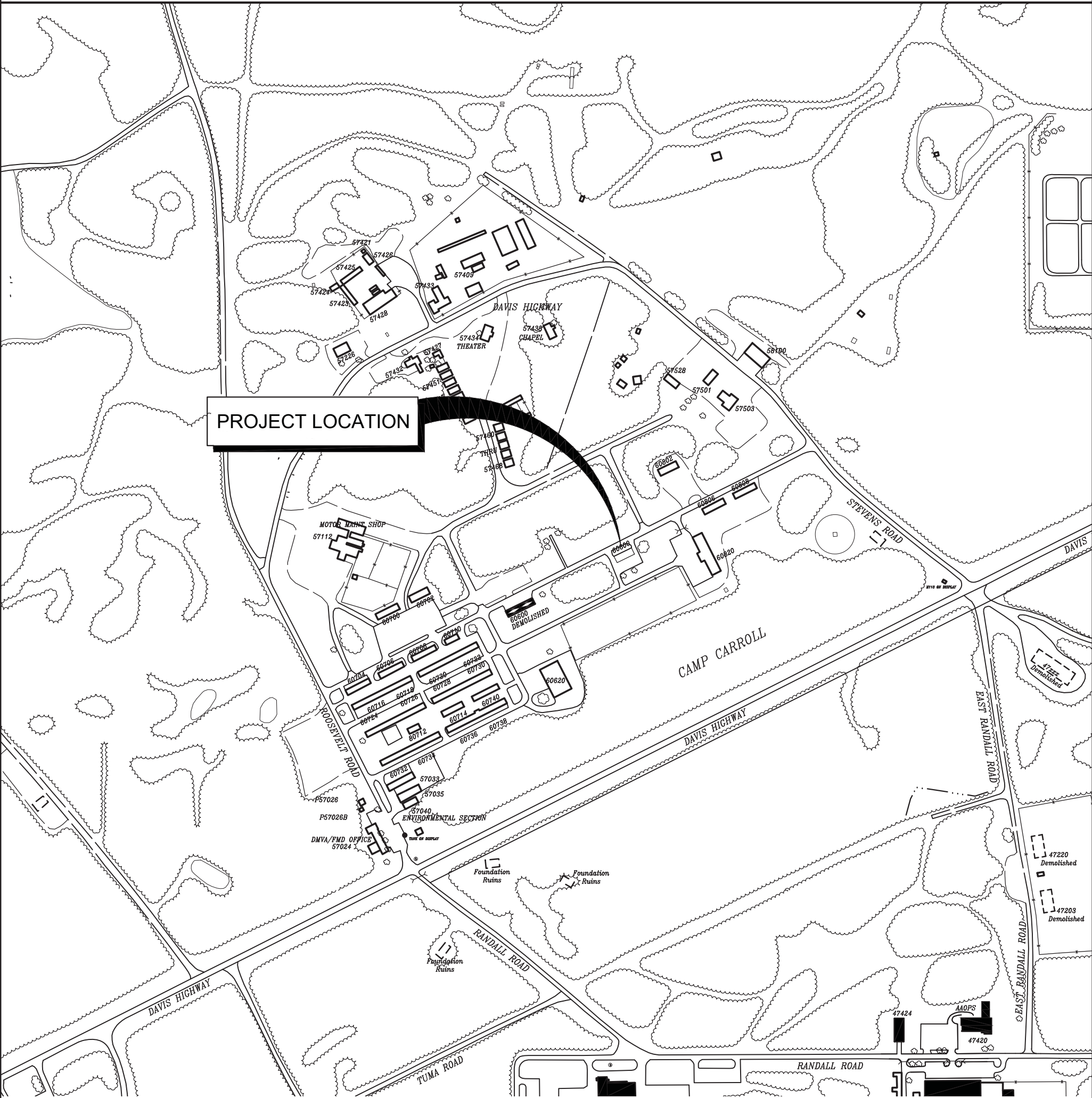
TEL: (866) 616-9909
FAX: (907) 344-3411
EMAIL: jeff@chinookfire.com

FIRE ALARM

GMW FIRE PROTECTION, INC.
6108 MacKay Street
Anchorage, AK 99518

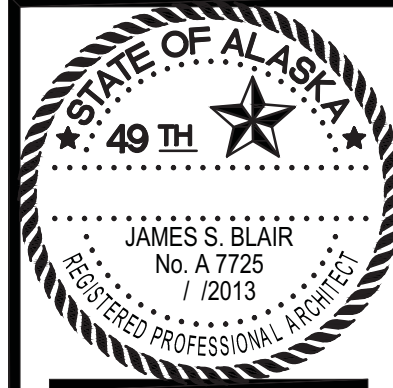
TEL: (907) 336-5000
FAX: (907) 336-5050

LOCATION MAP



JBER, ALASKA
N.T.S.

NORTH



GDM inc.
ARCHITECTURE • PLANNING



CAMP CARROLL, JBER

BUILDING #60606
ADDITION

COVER SHEET

JOB NO. 13016

G1

DATE: 11 MARCH 2014

THIS DRAWING MEASURES 34"x22" AT FULL SCALE

THIS DRAWING MEASURES 34"x22" AT FULL SCALE

SECTION 05 40 00
COLD-FORMED METAL FRAMING
STEEL STUDS, JOISTS, TRACKS, BRACING, BRIDGING AND ACCESSORIES
Framing components shall comply with ASTM C 955 and the following.
Studs and Joists of 16 Gage (0.0598 Inch) and Heavier
Galvanized steel, ASTM A 653/A 653M; or carbon steel, ASTM A 1011/A 1011M, Grade 50, painted.
Studs and Joists of 18 Gage (0.0478 Inch) and Lighter
Studs and Joists of (18 Gage (0.0478 Inch) and Lighter, Track, and Accessories (All Gages): Galvanized steel, ASTM A 653/A 653M, G60; or carbon steel, ASTM A 1008/A 1008M, Grade C, painted.
Sizes, Gages, Section Modulus, and Other Structural Properties
Size and gage as indicated.

CONNECTIONS
Screws for steel-to-steel connections shall be self-drilling tapping in compliance with SAE J78 of the type, size, and location as shown on the drawings. Electroplated screws shall have a Type II coating in accordance with ASTM B 633. Screws, bolts, and anchors shall be hot-dipped galvanized in accordance with ASTM A 123/A 123M or ASTM A 153/A 153M as appropriate. Screws bolts, and anchors shall be hot dipped galvanized in accordance with ASTM A 123/A 123M or ASTM A 153/A 153M as appropriate.
FASTENING
Fasten framing members together by using self-drilling or self-tapping screws.

Screws
Screws shall be self-drilling self-tapping type, size, and location shown on the drawings or specified. Screw penetration through joined materials shall not be less than three exposed threads. Minimum spacings and edge distances for screws shall be as specified in AISI S602-1. Screws covered by sheathing materials shall have low profile heads.

SECTION 07 21 00
LOOSE FILL INSULATION
INSULATION
Climate Pro loose fill fiberglass insulation having a flame spread rating of 25 or less and a smoke developed rating of 150 or less when tested in accordance with ASTM E 84. Insulation to be installed in existing attic over existing batt insulation.
Thermal Resistance Value (R-VALUE)
R-30 (in addition to existing loose fill insulation)
Prohibited Materials
Do not provide asbestos-containing materials.
BAFFLES
Verify existing baffles remain in place. repair or replace if required. Eave baffles constructed of plastic, cardboard, or other approved materials. Use only non-combustible materials meeting the requirements of ASTM E 136 for blocking around chimneys and heat producing devices.

SECTION 07 22 00
FOUNDATION INSULATION
INSULATION
Insulfoam R-Tech Expanded Polystyrene Board with polymeric laminate facers: ASTM C 578, Type I, 1.0# density.
INSULATION THICKNESS
Thickness shall be 2".

SECTION 07 19 00
BELOW SLAB VAPOR RETARDER
VAPOR RETARDER
Polyethylene sheeting, 6.0 mil. complying with ASTM D-4397-84E. Vapor rating of 0.10 perms or less (ASTM E96): Ten-foot minimum X continuous roll length.
Accessories: Primers, adhesives, solvents, battens, staples, clips, trim and other accessories recommended by vapor retarder manufacturer and necessary for a complete installation.
EXAMINATION
Examine Drawing details and field conditions to receive work for defects that will adversely affect the completed installation, and for deviations beyond allowable tolerances.
Substrate surfaces shall be free of sharp projections or holes over which the vapor retarder sheet can be applied without tearing or puncturing.
INSTALLATION
Installation shall be continuous, without gaps, holes or tears. Installation may be beneath a layer of sand for V.R. protection and curing of concrete.
PROTECTION
The Contractor shall protect installed retarder in all areas so that construction activities and traffic across the retarder will not result in punctures or other forms of damage and deterioration. The continuity and vapor resistance integrity of the vapor retarder is an extremely important element of the Project construction.

SECTION 07 46 30
STEEL ROOFING
MANUFACTURER
Varco Pruden
ROOFING PANELS
SSR, standing seam 22 or 24 gauge zinc aluminum coated steel.
MATERIALS
Finish to be manufacturer's standard coating. Color to be selected from manufacturer's standard colors
TRIM
Provide trim pieces as detailed on Drawings and per manufacturer's installation instructions as required for complete, weather tight, functional installation.

SECTION 07 41 00
INSULATED METAL WALL PANELS
MANUFACTURER
Kingspan.
INSULATED METAL WALL PANELS
Prefinished metal skins, polyurethane insulation, 4" thick, R-30
TRIM
Provide trim pieces as detailed on Drawings and per manufacturer's installation instructions as required for complete, weather tight, functional installation.

SECTION 07 60 00
FLASHING AND SHEET METAL
Materials shall conform to the requirements specified below and to the thickness and configurations established in SMACNA Arch. Manual
Exposed Sheet Metal Items, Zinc-Coated (Galvanized)
Shall be of the same material. Minimum 24 ga.
Steel Sheet, Zinc-Coated (Galvanized)
ASTM A 653/A 653M. Minimum 24 ga.
Finish
Factory finished to match adjacent building material color.
Fasteners
Use the same metal or a metal compatible with the item fastened. Use stainless steel fasteners to fasten dissimilar materials.

SECTION 07 92 00
JOINT SEALANTS
Materials shall conform to the requirements specified below. Provide sealants that are tested and suitable for the substrate. All sealants shall be low V.O.C.
Exterior Sealants
For joints in vertical surfaces, provide ASTM C 920, Type S or M, Grade NS, Class 25, Use NT. For joints in horizontal surfaces, provide ASTM C 920, Type S or M, Grade P, Class 25, Use T. Location(s) and color(s) of sealant shall be as follows:
LOCATION
COLOR
a. Joints and recesses formed where frames and subsills of windows, doors, louvers, and vents adjoin metal frames. Use sealant at both exterior and interior surfaces of exterior wall penetrations.
Match adjacent primary surface color
b. Voids at penetrations where items pass through exterior walls and ceilings.
Match adjacent primary surface color
c. Metal-to-metal joints where sealant is indicated or specified.
Match adjacent primary surface color
d. Joints between ends of gravel stops, fascias, copings, and adjacent walls.
Match adjacent primary surface color

SECTION 08 11 13
STEEL DOORS AND FRAMES
Steel Door Systems
Exterior Steel doors shall have a core of polyurethane insulation; face sheets, edges, and frames of galvanized steel not lighter than 23 gauge, 16 gauge, and 16 gauge respectively; weather stripping; nonremovable-pin hinges; aluminum threshold; and door bottom. Doors and frames shall be galvanized. Doors shall have been tested in accordance with SDI/DOOR A250.4 and shall have met the requirements for Level C. Prepare doors to receive specified hardware. Doors shall be 1-3/4 inch thick.
Steel Frames
SDI/DOOR A250.8, Level 3, 16 gauge, except as otherwise specified. Form frames to sizes and shapes indicated, with welded corners. Provide steel frames for all doors.
Anchors
Provide anchors to secure the frame to adjoining construction. Provide steel anchors, zinc-coated or painted with rust-inhibitive paint, not lighter than 18 gauge. Provide 3 jamb anchors and 1 base anchor or 4 jamb anchors on both sides of frame.

Provide anchors to secure the frame to adjoining construction. Provide steel anchors, zinc-coated or painted with rust-inhibitive paint, not lighter than 18 gauge. Provide 3 jamb anchors and 1 base anchor or 4 jamb anchors on both sides of frame.
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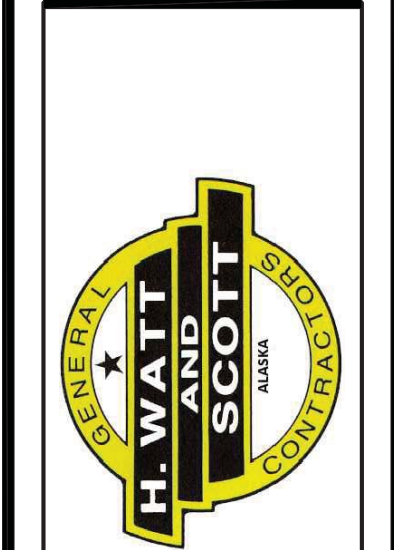
SECTION 08 14 00
WOOD DOORS
DOORS
Provide doors of the types, sizes and designs indicated.
Interior Flush Doors
Provide particleboard core, Type II flush doors conforming to WDMA I.S. 1-A with faces of sound grade red oak hardwood for natural finish.
Finishes
Field Painting: Factory prime or seal doors and field paint.
Color
Provide door finish colors as selected by the Contracting Officer's representative.

SECTION 08 51 13
ALUMINUM WINDOWS
SCOPE
Replace existing windows to meet egress requirements of sleeping rooms and UFC 4-010-01 and UFC 4-010-02. Existing exterior walls are 8" load bearing cmu. Building occupancy: Billeting Level of Protection: low Project is within a controlled perimeter.
PERFORMANCE REQUIREMENTS
A. Testing standards for air infiltration, water penetration and structural performance: AAMA/WDMA/CSA 101/I.S.2/A440 for each window type.
B. Air infiltration: Maximum 0.06 CFM per square foot of sash fixed area at a test pressure differential of 6.24 psf, ASTM E 283.
C. Water penetration: No water penetration at a pressure of 8 psf of fixed area, ASTM E 331.
D. Structural performance: Design all frames for static loads per ASTM F 1642. Members shall withstand design wind load and requirements of UFC 4-010-01 with Change 1.
E. Wind Requirements: 110 MPH (3 sec gust) wind speed. Wind Pressure: 50 PSF. Exposure: C.
F. Provide manufacturer's standard 10 year warranty on finish.
PRODUCTS
A. Desco Dark Bronze Anodized.
B. Solarban 60 tempered glass over 1/4" laminated.

MATERIALS
A. Mullions and Cover Plates: Shall be extruded aluminum of 6063-T5 alloy and temper of profile and dimensions indicated on the drawings.
B. Thermal Barrier: Neoprene, rigid vinyl or polyurethane conforming to AAMA 101.
GLASS AND GLAZING
A. Glass thickness and type shall be in accordance with manufacturer's recommendations for prescribed design pressure. Factory glazing shall be in accordance with manufacturer's standard requirements.
B. Factory glazed except where field glazing is required due to large window unit dimensions. Units shall be reglazeable without dismantling sash framing.
C. Insulating Glass: ASTM E774, NAMI/IGCC, CBA Rated, Dual-Seal or Single-Seal as selected. Provide the window manufacturer's sealed insulating glazing material at least 1" overall in thickness.
Glass Characteristics: Manufacturer's standard clear float glass.

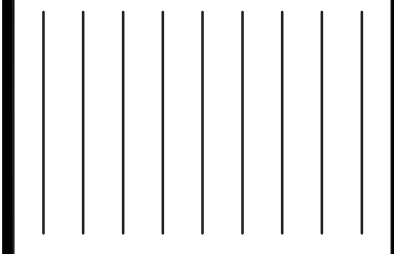
ACCESSORIES
A. Fasteners: Where exposed, shall be 300 Series, Stainless Steel.
B. Perimeter Anchors: Aluminum. When steel anchors are used, provide insulation between steel material and aluminum to prevent galvanic action.

100% DESIGN REVIEW



CAMP CARROLL, JBER
BUILDING #60606
ADDITION

SPECIFICATIONS



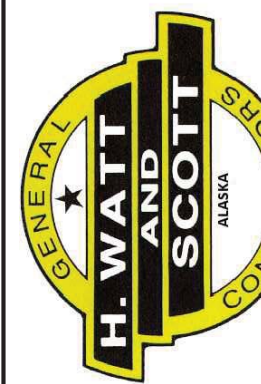
THIS DRAWING MEASURES 34"x22" AT FULL SCALE

SECTION 08 71 10	
DOOR HARDWARE	
DOOR HARDWARE	
General: Provide door hardware for each door to comply with requirements in this Section, and the Door Hardware Schedule.	
Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Schedule. Products are identified by using door hardware designations, as follows:	
1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.	
HINGES AND PIVOTS	
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	
1. Hinges:	
a. Baldwin Hardware Corporation (BH).	
b. Hager Companies (HAG).	
c. Lawrence Brothers, Inc. (LB).	
d. McKinney Products Company; Div. of ESSEX Industries, Inc. (MCK).	
e. Sargent Manufacturing Company; Div. of ESSEX Industries, Inc. (SGT).	
f. Stanley Commercial Hardware; Div. of The Stanley Works (STH).	
LOCKS AND LATCHES	
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	
1. Mechanical Locks and Latches:	
a. Best Lock Corporation (BLC).	
b. Corbin Russwin Architectural Hardware; Div. of Yale Security Inc. (CR).	
c. Hager Companies (HAG).	
d. McKinney Products Company; Div. of ESSEX Industries, Inc. (MCK).	
e. Sargent Manufacturing Company; Div. of ESSEX Industries, Inc. (SGT).	
f. Schlage Lock Company; an Ingersoll-Rand Company (SCH).	
g. Weiser Lock; Div. of Masco Building Products Corporation (WEI).	
Backset: 2-3/4 inches (70 mm), unless otherwise indicated.	
CYLINDERS AND KEYING	
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	
1. Cylinders: Same manufacturer as for locks and latches.	
2. Key Control System: Best	
3. Interchangeable Cores: Core insert, removable by use of a special key, and usable with other manufacturers' cylinders.	
Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:	
1. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.	
CLOSERS	
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	
1. Surface-Mounted Closers:	
a. Corbin Russwin Architectural Hardware; Div. of Yale Security Inc. (CR).	
b. DORMA Door Controls Inc.; Member of The DORMA Group (DC).	
c. LCN Closers; an Ingersoll-Rand Company (LCN).	
d. Norton Door Controls; Div. of Yale Security Inc. (NDC).	
e. Sargent Manufacturing Company; Div. of ESSEX Industries, Inc. (SGT).	

PROTECTIVE TRIM UNITS	
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	
1. Metal Protective Trim Units:	
a. Baldwin Hardware Corporation (BH).	
b. IPC Door and Wall Protection Systems, Inc. (IPC).	
c. Ives: H. B. Ives (IVS).	
d. NT Quality Hardware; an Ingersoll-Rand Company (NTQ).	
e. Triangle Brass Manufacturing Company, Inc. (TBM).	
f. Wilkinson Company, Inc. (WIL).	
Materials: Fabricate protection plates from the following:	
1. Stainless Steel: 0.050 inch (1.3 mm) thick; beveled top and 2 sides.	
Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine or self-tapping screws.	
Furnish protection plates sized 1-1/2 inches (38 mm) less than door width on push side and 1/2 inch (13 mm) less than door width on pull side, by height specified in Door Hardware Schedule.	
DOOR GASKETING	
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	
1. Door Gasketing:	
a. National Guard Products, Inc. (NGP).	
b. Pemko Manufacturing Co., Inc. (PEM).	
c. Reese Enterprises, Inc. (RE).	
d. Sealeze Corporation (SEL).	
e. Zero International, Inc. (ZRO).	
2. Door Bottoms:	
a. National Guard Products, Inc. (NGP).	
b. Pemko Manufacturing Co., Inc. (PEM).	
c. Reese Enterprises, Inc. (RE).	
d. Zero International, Inc. (ZRO).	
THRESHOLDS	
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	
1. National Guard Products, Inc. (NGP).	
2. Pemko Manufacturing Co., Inc. (PEM).	
3. Reese Enterprises, Inc. (RE).	
4. Zero International, Inc. (ZRO).	
MISCELLANEOUS DOOR HARDWARE	
Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:	
1. Baldwin Hardware Corporation (BH).	
2. Hager Companies (HAG).	
3. Ives: H. B. Ives (IVS).	
4. Triangle Brass Manufacturing Company, Inc. (TBM).	
FINISHES	
Standard: Comply with BHMA A156.18, and match existing building hardware finishes.	
DOOR HARDWARE SCHEDULE	
H01 - DOORS 113A AND 113B	
Hardware by pre-engineered metal building manufacturer.	
H02 - DOOR 114	
3ea Hinges	HA BB1279 4 ½" x 4 ½" x 612
1ea Lockset	BE 93K7AB15D x S3 x 612
1ea Kickplate	RW K1050 10" x 34" x 0.050" x 612
1ea Wall Stop	RW 409 x 612
1ea Sound Seal	PE S88D
SECTION 09 29 00	
GYPSUM BOARD	
Gypsum Board	
ASTM C 36/C 36M and ASTM C 1396/C 1396M.	
Mold and mildew resistant. ASTM D 3273 panel score of 8, 5/8 inch Type X.	
Finish	
Tape and finish gypsum board in accordance with ASTM C 840, GA 214 and GA 216. All gypsum board walls, partitions and ceilings shall be an orange peel texture. Provide joint, fastener depression, and corner treatment.	
Fire-Resistant Assemblies	
Wherever fire-rated construction is indicated, provide materials and application methods, including types and spacing of fasteners, wall and ceiling framing in accordance with the specifications contained in UL Fire Resist Dir or WH Fire Resist Dir for the Design Number(s) indicated, or GA 600 for the File Number(s) indicated. Joints of fire-rated gypsum board enclosures shall be closed and sealed in accordance with UL test requirements, WH test requirements, or GA requirements. Penetrations through rated partitions and ceilings shall be sealed tight in accordance with tested systems. Fire ratings shall be as indicated in the drawings.	

SECTION 09 65 30	
RESILIENT WALL BASE AND ACCESSORIES	
RESILIENT WALL BASE	
A. Manufacturer: Burke.	
B. Type: Rubber.	
C. Group: Type TS or TP.	
D. Style: Cove (with top-set toe).	
E. Minimum Thickness: 0.125 inch.	
F. Height: 4 inches	
G. Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.	
H. Outside Corners: Job formed or pre-molded.	
I. Inside Corners: Job formed or pre-molded.	
J. Surface: Smooth.	
K. Color: to be determined.	
INSTALLATION MATERIALS	
Trowelable Leveling and Patching Compounds: Latex-modified, Portland cement based or blended hydraulic cement based formulation provided or approved by resilient product manufacturers for applications indicated.	
Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.	
All installation materials shall be low V.O.C.	
SECTION 09 90 00	
PAINTS AND COATINGS	
INTERIOR PAINT TABLES	
DIVISION 5: INTERIOR METAL, FERROUS AND NON-FERROUS PAINT TABLE	
INTERIOR STEEL / FERROUS SURFACES	
A. Door Frames -	
1. Latex (Semigloss)	
Primer: Sherwin Williams Procryl Primer (omit if factory primed)	
Intermediate: Sherwin Williams Industrial Acrylic Semi-Gloss	
Topcoat: Sherwin Williams Industrial Acrylic Semi-Gloss	
B. Miscellaneous non-ferrous metal items not otherwise specified except floors, hot metal surfaces, and new prefinished equipment. Match surrounding finish:	
1. Latex (Semigloss)	
Primer: N/A	
Intermediate: Sherwin Williams Industrial Acrylic Semi-Gloss	
Topcoat: Sherwin Williams Industrial Acrylic Semi-Gloss	
DIVISION 9: INTERIOR GYPSUM BOARD, TEXTURED SURFACES PAINT TABLE	
A. New Wallboard not otherwise specified:	
1. Latex (Eggshell)	
Primer: Sherwin Williams ProMar 200 Primer	
Intermediate: Sherwin Williams ProMar 400 Eggshell	
Topcoat: Sherwin Williams ProMar 400 Eggshell	

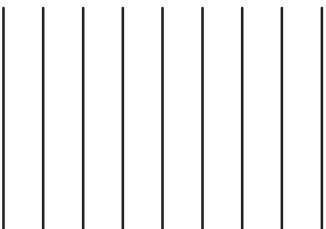
SECTION 10801	
TOILET ACCESSORIES	
MANUFACTURERS and PRODUCTS	
Manufacturers and products are limited to those indicated in the Toilet Accessory Schedule.	
INSTALLATION	
Coordinate accessory locations with other work for anchor blocking installation, to prevent interference with door and fixture clearances, ADAAG required clearances proper installation, operation, cleaning and servicing of accessories. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate. Install units level, plumb, and firmly anchored in locations and at heights indicated. Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Remove temporary labels and protective coatings. Clean and polish exposed surfaces according to manufacturer's written recommendations. Turn keys over to Owner.	
TOILET ACCESSORY SCHEDULE	
Toilet Tissue Dispenser:	
A. Basis of Design: Georgia Pacific Model 59009.	
B. Type: Jumbo double-roll dispenser, Surface mounted.	
Towel Dispenser:	
A. Basis of Design: Georgia Pacific Model 59460.	
B. Type: Automated Roll Towel Dispenser, Touchless, Hands Free, Battery Operated, Surface Mounted.	
Soap Dispenser:	
A. Basis of Design: GOJO Model 5150.	
B. Type: Vertical-Tank Type, Push Operation, Surface-mounted.	
Grab Bar:	
A. Basis of Design: Bobrick B-6806 Series.	
B. Type: Stainless-Steel 1½" o.d. tubing with satin finish.	
C. Mounting: Concealed flange and anchors with manufacturer's snap flange cover.	
Mirror Unit:	
A. Basis of Design: Bobrick B-165 Series. Size: 24"w x 36"h.	
B. Type: Stainless-Steel, Channel-Framed Mirror.	



CAMP CARROLL, JBER

BUILDING #60606
ADDITION

SPECIFICATIONS



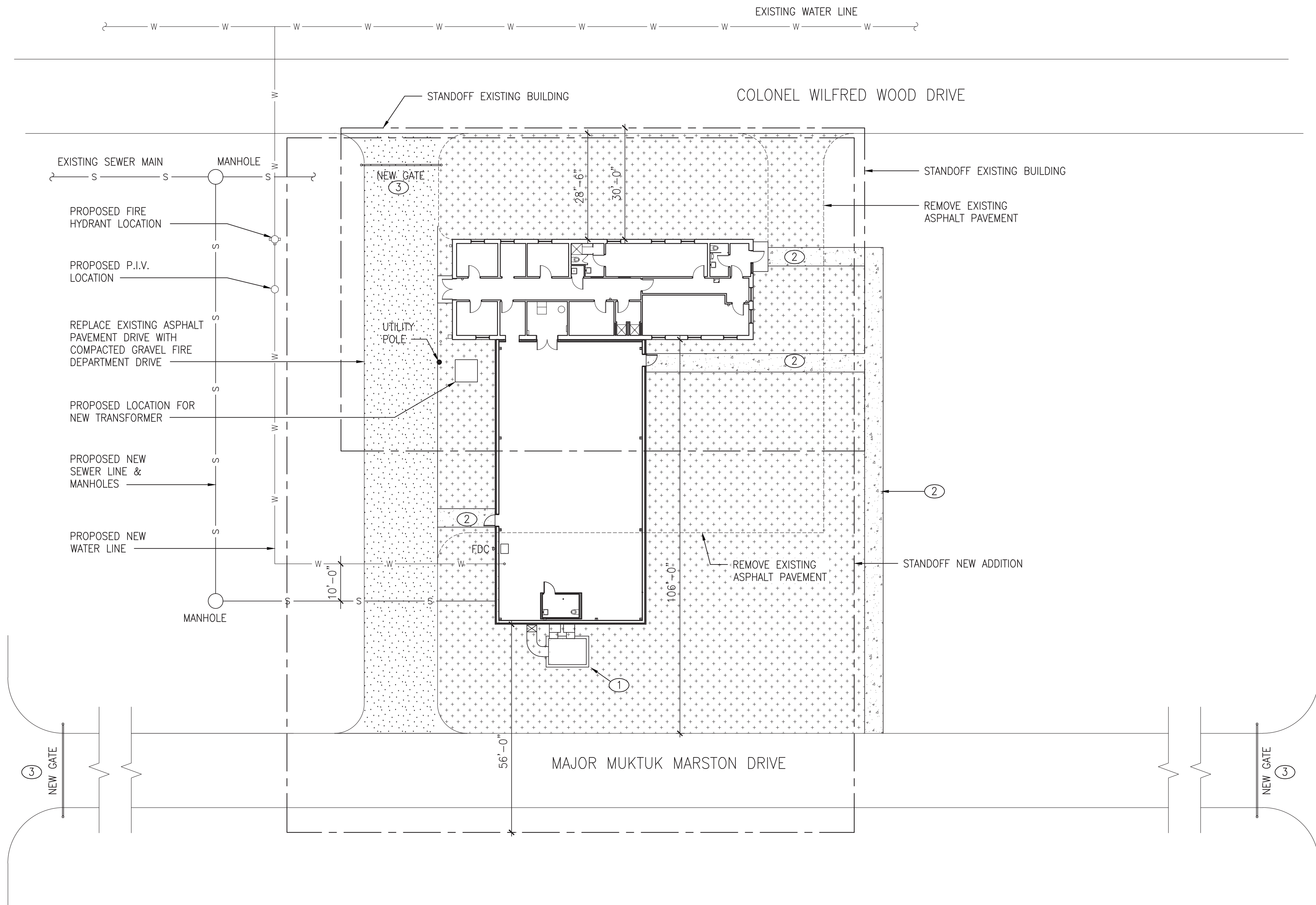
JOB NO. 13016

A1.2

DATE: 11 MARCH 2014

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THIS DRAWING MEASURES 34"x22" AT FULL SCALE



LEGEND:

- G GAS LINE
- S SEWER LINE
- E ELECTRICAL LINE
- W WATER LINE
- COMM COMMUNICATIONS LINE(S)
- NEW CONCRETE SIDEWALK
- NEW TOPSOIL/GRASS SEED
- COMPACTED GRAVEL

NOTES:

- UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED ON JBER UTILITY DRAWINGS

SHEET NOTES:

- MECHANICAL EQUIPMENT PAD
- NEW 5'-0" WIDE X 4" THICK CONCRETE SIDEWALK
- 4" GALVANIZED STEEL PIPE EACH END WITH 3/8" DIA. STEEL CABLE.

SITE PLAN
1/16" = 1'-0"



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CAMP CARROLL, JBER
BUILDING #60606
ADDITION

SITE PLAN

JOB NO. 13016

A2.1

DATE: 11 MARCH 2014

[illegible]

BUILDING 60606



Architectural floor plan showing a building layout with various rooms and dimensions. The plan includes a central corridor (114) and several rooms, including a bathroom (113B) and a kitchen area (113A). The plan is divided into sections by a vertical wall and a horizontal wall. The dimensions are given in feet and inches, with some dimensions in feet and fractions of an inch. The plan also includes a note: "STUDS ARE 3 5/8\" UNLESS NOTED OTHERWISE".

Key dimensions and features include:

- Overall width: 10'-2 1/2" (left section), 11'-4 7/8" (middle section), 16'-11 3/4" (right section).
- Overall height: 8'-3 5/8" (top section), 9'-7 1/4" (middle section), 3'-6 1/4" (bottom section).
- Room labels: 113B, 113A, 114, 113, 112, 111, 110, 109, 108, 107, 106, 105, 104, 103, 102, 101, 100, 99, 98, 97, 96, 95, 94, 93, 92, 91, 90, 89, 88, 87, 86, 85, 84, 83, 82, 81, 80, 79, 78, 77, 76, 75, 74, 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, A2.2.
- Room labels: FP, WH, 113B, 113A, 114, 113, 112, 111, 110, 109, 108, 107, 106, 105, 104, 103, 102, 101, 100, 99, 98, 97, 96, 95, 94, 93, 92, 91, 90, 89, 88, 87, 86, 85, 84, 83, 82, 81, 80, 79, 78, 77, 76, 75, 74, 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 62, 61, 60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, A2.2.
- Note: "STUDS ARE 3 5/8\" UNLESS NOTED OTHERWISE".

BUILDING 60606

BUILDING #60606
ADDITION

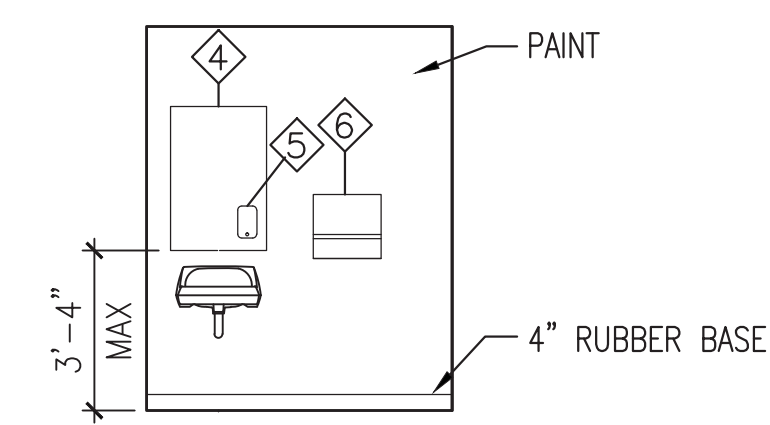
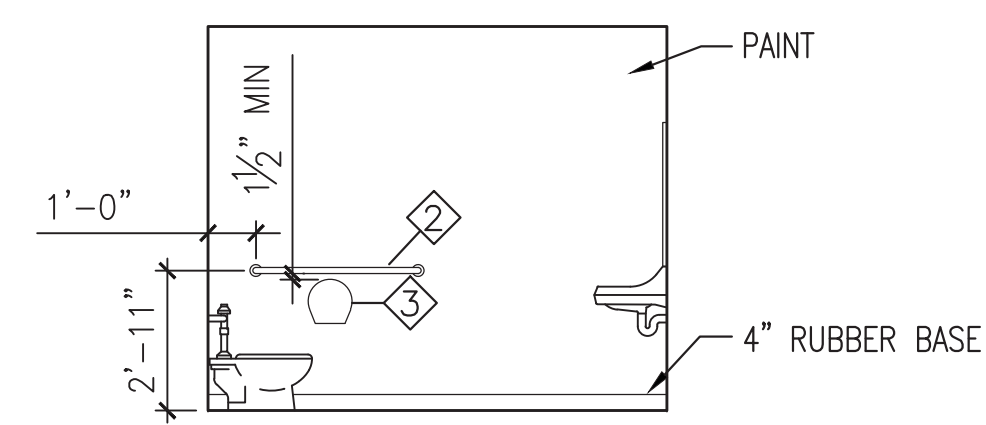
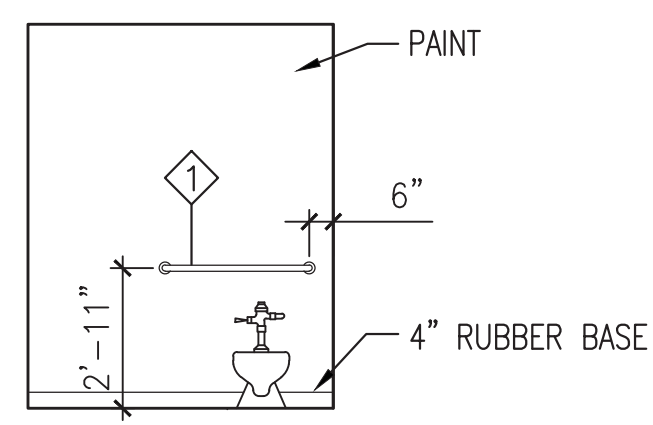
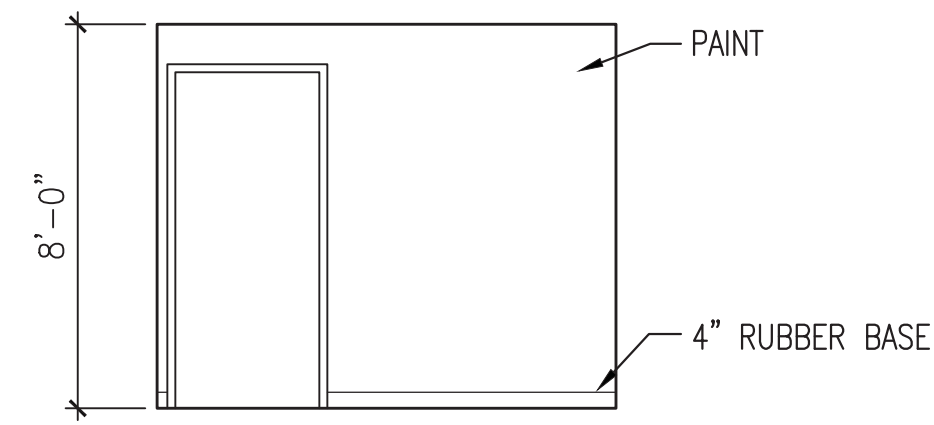
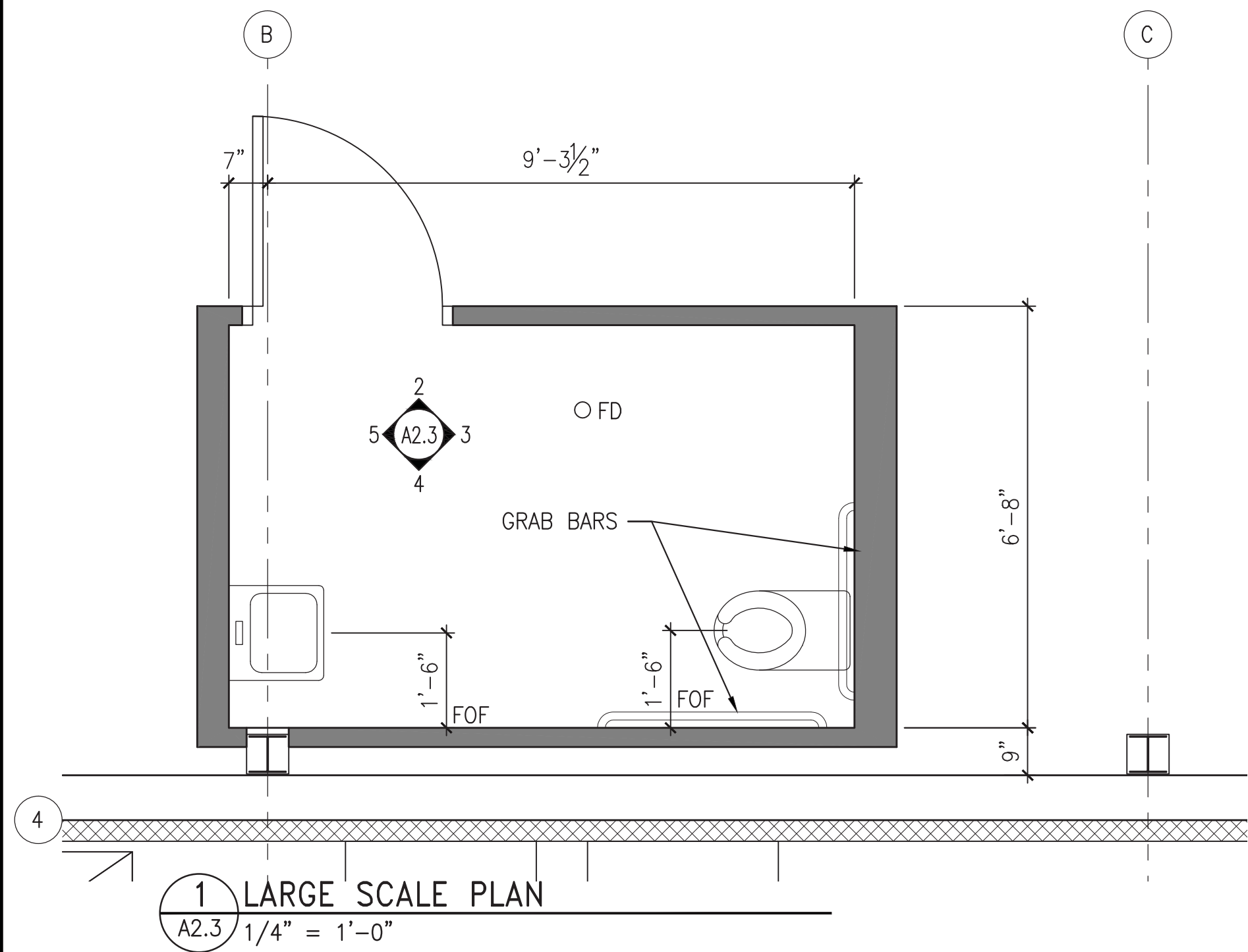
FLOOR PLAN

DB NO. 13016

A2.2

DATE: 11 MARCH 2014

THIS DRAWING MEASURES 34"x22" AT FULL SCALE

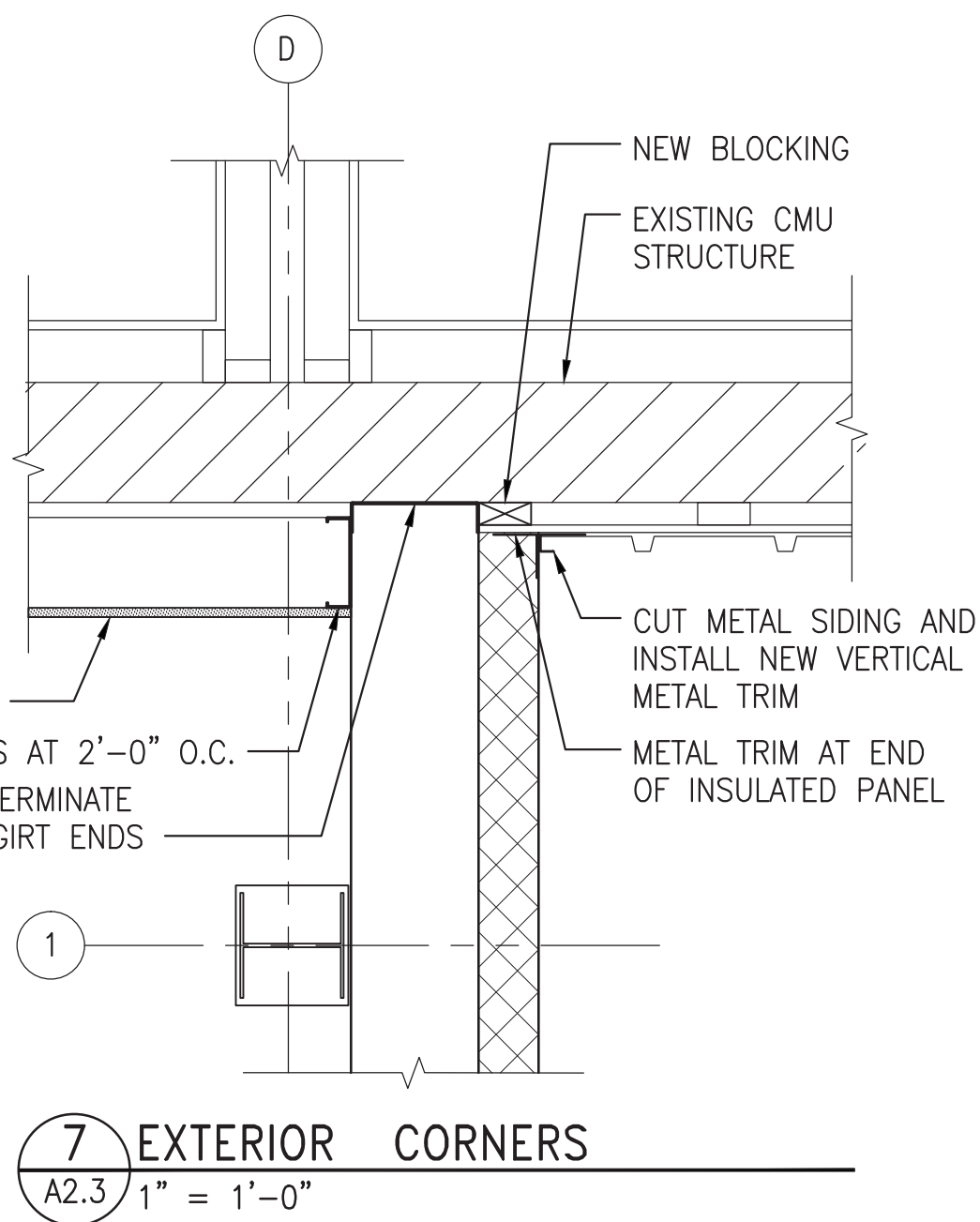
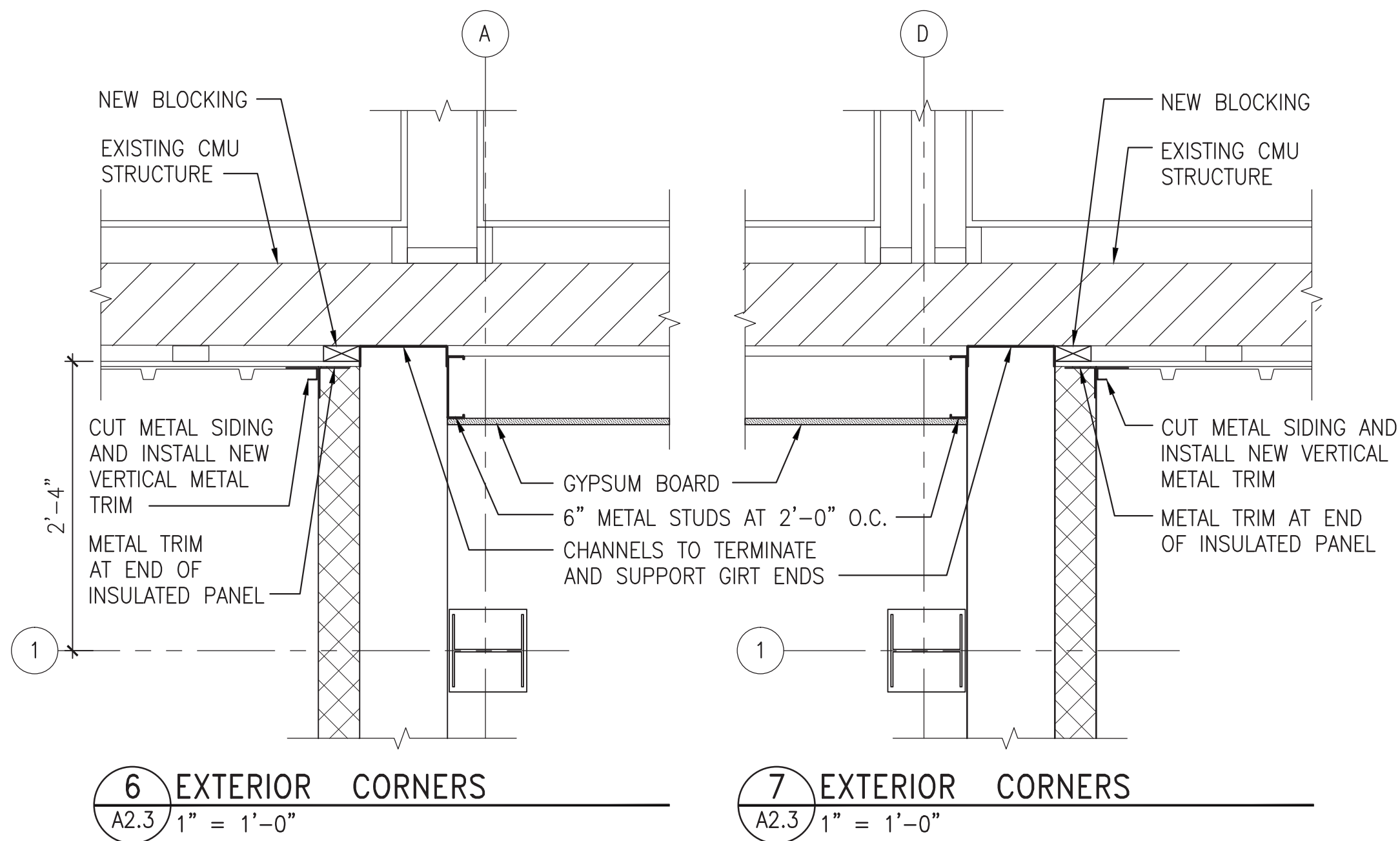


FIXTURE NOTES:

1. PROVIDE 2x BLOCKING FOR ALL PLUMBING FIXTURES & ACCESSORIES.
2. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT OF ALL TOILET ROOM FIXTURES AND ACCESSORIES WITH OWNERS REPRESENTATIVE.
3. PROVIDE HOT WATER AND DRAIN PIPE INSULATION ON ALL LAVATORIES. COORDINATE INSULATION TYPE AND WASHABLE COVER WITH MECHANICAL.

FIXTURE SCHEDULE

- | | | | |
|---|---|---|-----------------------|
| 1 | GRAB BAR 36" | 5 | SOAP DISPENSER |
| 2 | GRAB BAR 42" | 6 | PAPER TOWEL DISPENSER |
| 3 | TOILET PAPER HOLDER (24" MIN. FROM FLOOR TO BOTTOM) | | |
| 4 | MIRROR 24" W.x 36" H. | | |



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CAMP CARROLL, JBER
BUILDING #60606
ADDITION

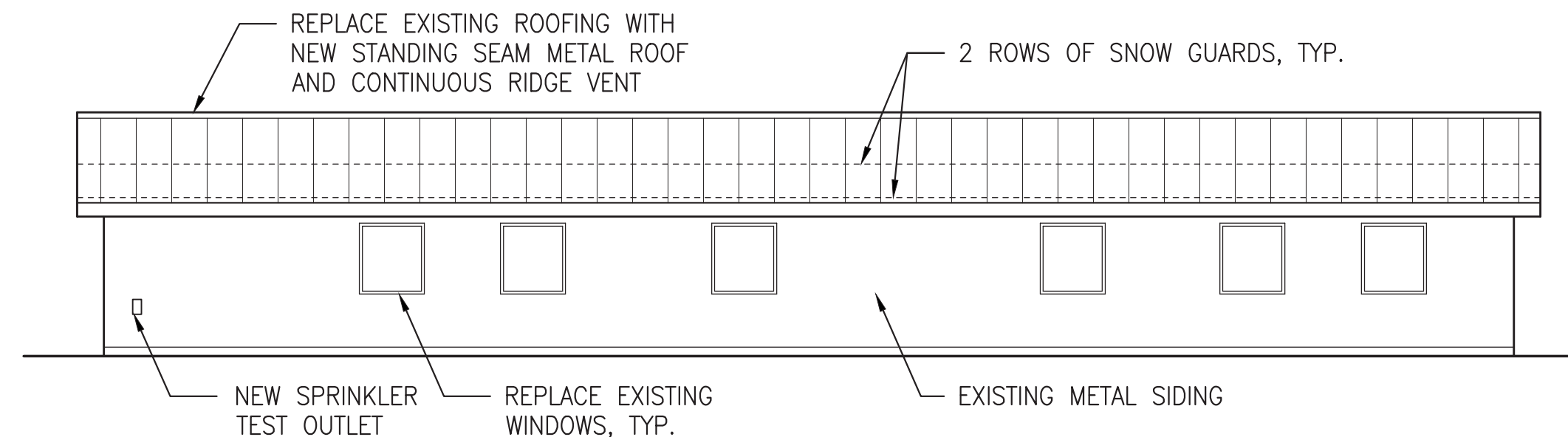
ENLARGED FLOOR PLANS
AND DETAILS

JOB NO. 13016

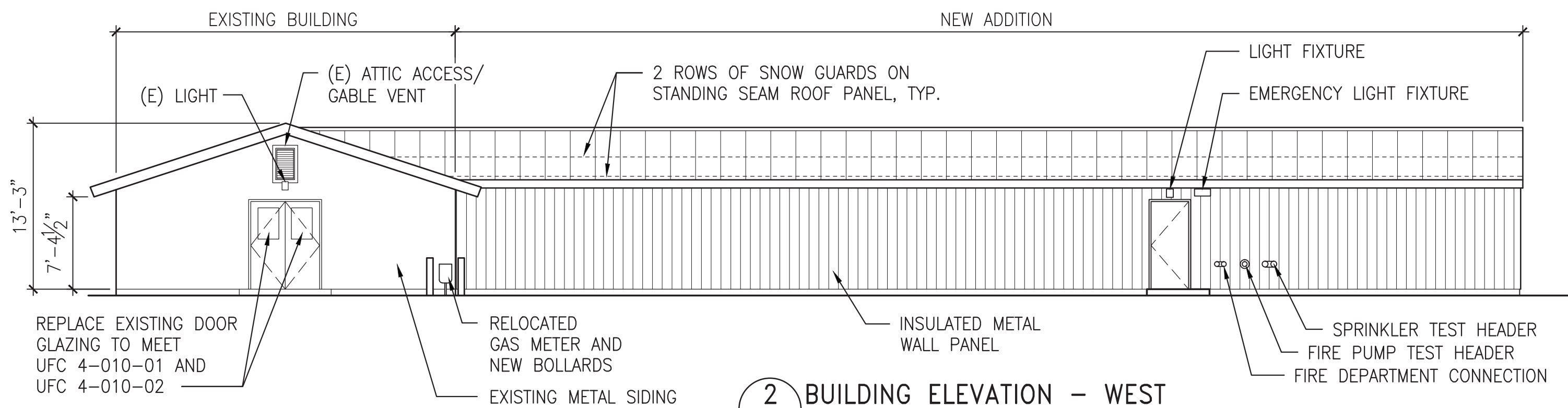
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DATE: 11 MARCH 2014

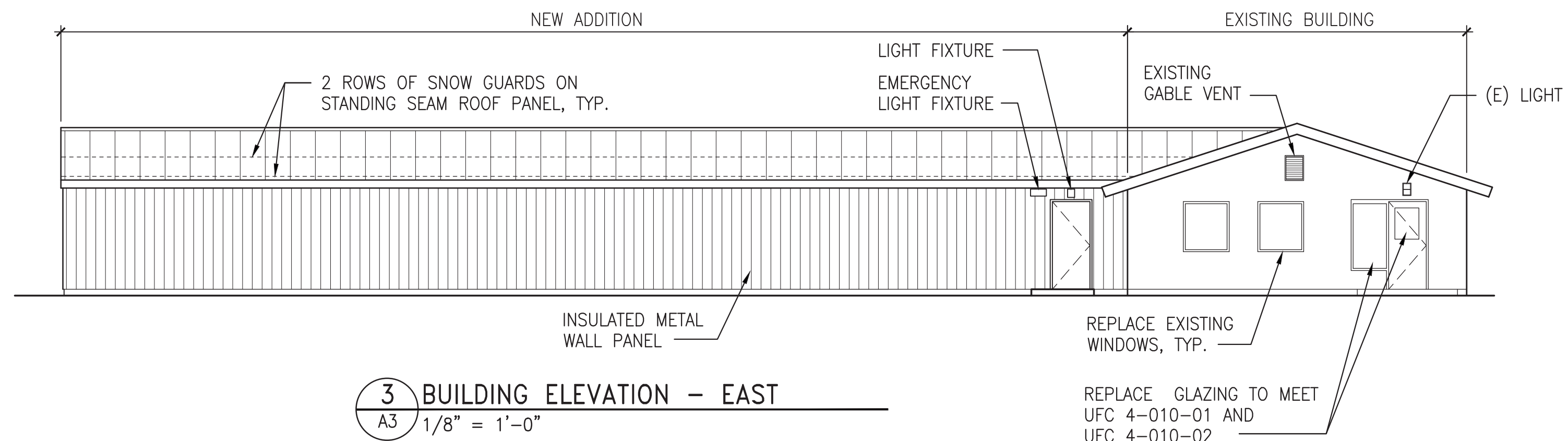
THIS DRAWING MEASURES 34"x22" AT FULL SCALE



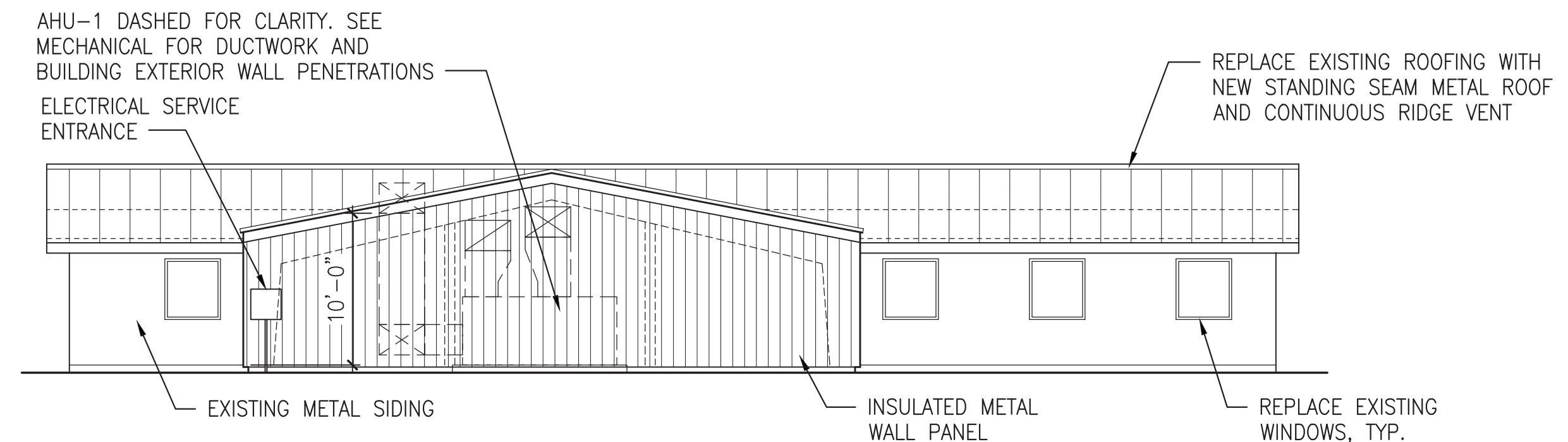
1 BUILDING ELEVATION - NORTH
A3 1/8" = 1'-0"



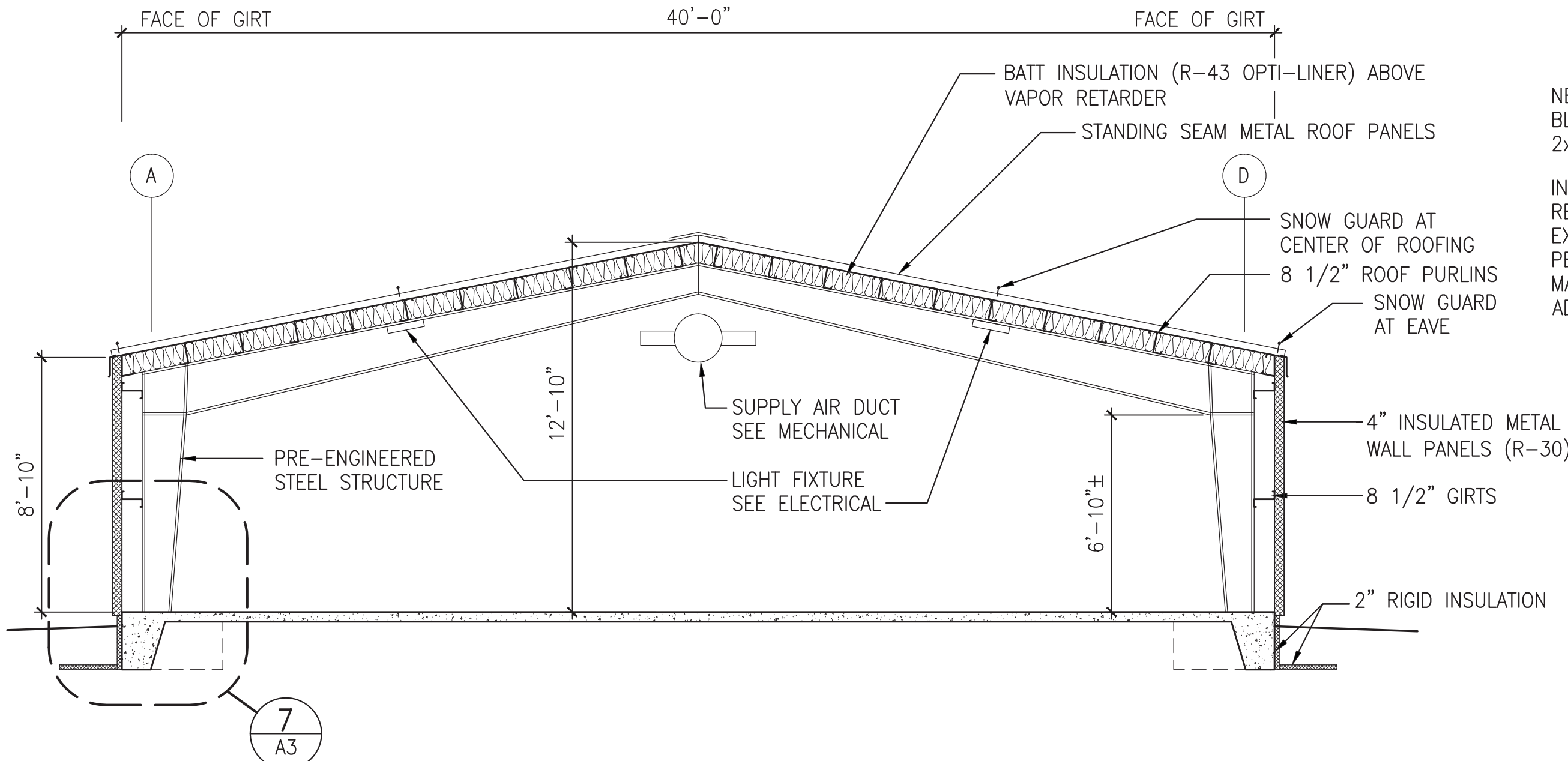
2 BUILDING ELEVATION - WEST
A3 1/8" = 1'-0"



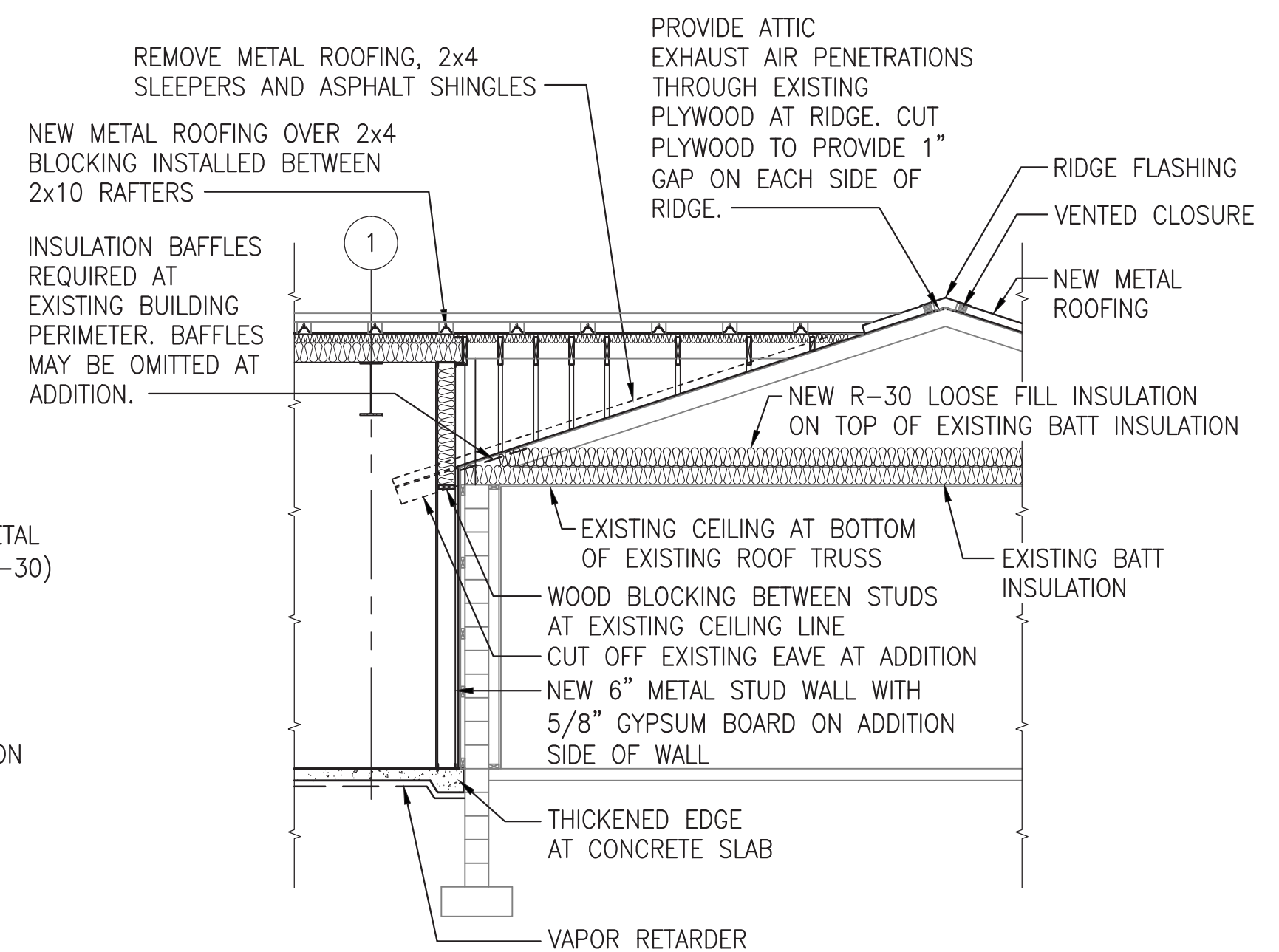
3 BUILDING ELEVATION - EAST
A3 1/8" = 1'-0"



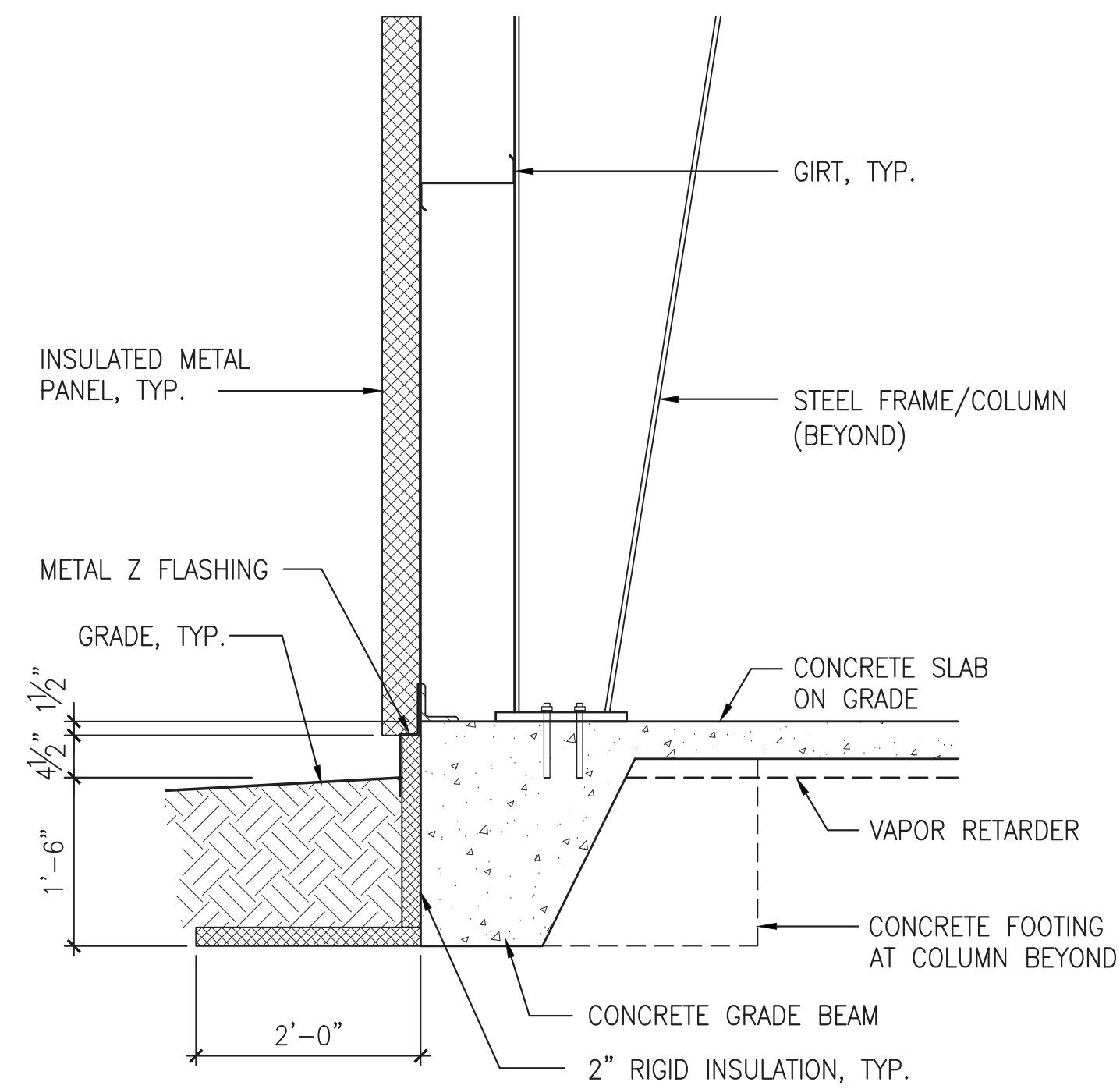
4 BUILDING ELEVATION - SOUTH
A3 1/8" = 1'-0"



5 BUILDING SECTION
A3 1/4" = 1'-0" BUILDING 60606



6 PARTIAL BUILDING SECTION
A3 1/4" = 1'-0"



7 SECTION AT FOUNDATION
A3 3/4" = 1'-0"

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CAMP CARROLL, JBER
BUILDING #60606
ADDITION

ELEVATIONS AND SECTIONS

JOB NO. 13016

A3

DATE: 11 MARCH 2014

THIS DRAWING MEASURES 34"x22" AT FULL SCALE

ROOM FINISH SCHEDULE

EXISTING BUILDING										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING HEIGHT	CEILING	REMARKS
				NORTH	EAST	SOUTH	WEST			
100A	HALL	VCT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
100B	HALL	VCT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
101	ENTRY	VCT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
101A	LATRINE	VCT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
102	OFFICE	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
103	SLEEPING	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
103A	LATRINE	VCT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
104	JAN	VCT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
105	SHOWER	VCT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
106	OFFICE	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
107	SLEEPING	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
108	VESTIBULE	VCT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
109	BREAK	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
110	SLEEPING	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
111	SLEEPING	CPT	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
112	MECH	EXIST	—	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	
NEW ADDITION										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING HEIGHT	CEILING	REMARKS
				NORTH	EAST	SOUTH	WEST			
113	BARRACKS	SC	—	—	—	—	—	—	—	
114	TOILET	SC	RB	GB/PT	GB/PT	GB/PT	GB/PT	8'-0"	GB/PT	

LEGEND:

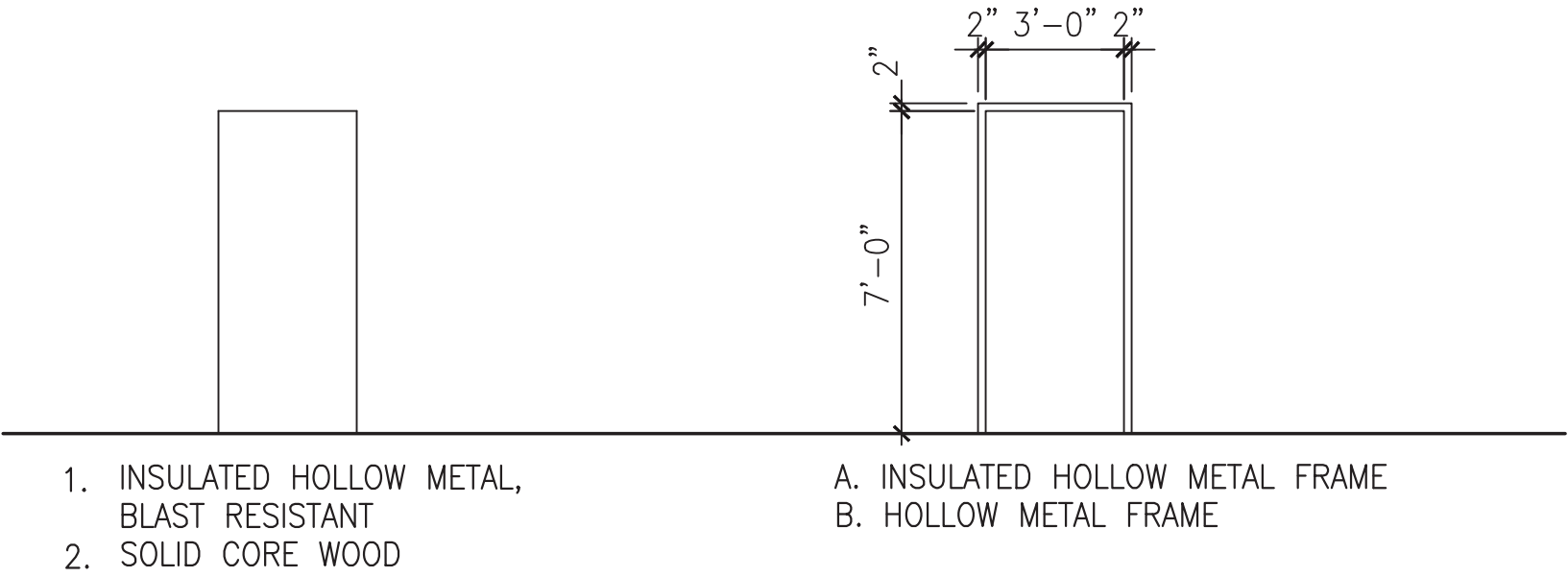
ACT ACOUSTIC CEILING TILE
CPT CARPET
PT PAINT
GB GYPSUM BOARD
RB RUBBER BASE
RF RUBBER FLOORING
SC SEALED CONCRETE
T TILE
(E) EXISTING
- NO FINISH

NOTES:

1. xxx

DOOR TYPES

FRAME TYPES



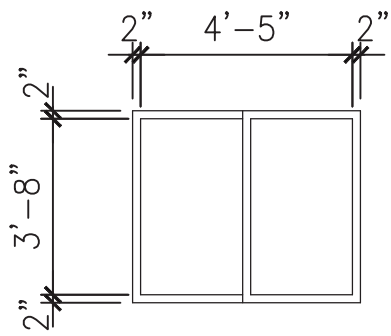
1. INSULATED HOLLOW METAL, BLAST RESISTANT
2. SOLID CORE WOOD

- A. INSULATED HOLLOW METAL FRAME
B. HOLLOW METAL FRAME

NOTES

1. ALL EXTERIOR DOOR FRAMES SHALL BE FIELD INSULATED.
2. ALL EXTERIOR DOORS SHALL BE PROVIDED WITH THRESHOLDS.

WINDOW TYPES



1. REPLACEMENT ALUMINUM FRAME OPERABLE WINDOW TO MEET SLEEPING ROOM EGRESS REQUIREMENTS

DOOR SCHEDULE										
DOOR NO.	SIZE		DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	HDW. GROUP	U.L.		DETAILS
	W	H						LABEL	HEAD	JAMB
113A	3'-0"	x7'-0"	1	PAINT	A	PAINT	HD1			BY METAL BUILDING MANUFACTURER
113B	3'-0"	x7'-0"	1	PAINT	A	PAINT	HD1			BY METAL BUILDING MANUFACTURER
114	3'-0"	x7'-0"	2	CLEAR	B	PAINT	HD2			

100% DESIGN REVIEW

CAMP CARROLL, JBER
BUILDING #60606
ADDITION

FINISH SCHEDULE

JOB NO. 13016

A4

DATE: 11 MARCH 2014

STRUCTURAL NOTES

THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, SITE CONDITIONS, SPECIFICATIONS AND THESE NOTES SHALL BE REPORTED TO THE ARCHITECT/ ENGINEER AT ONCE.

ALL CONSTRUCTION SHALL COMPLY WITH THE 2009 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE LOCAL BUILDING OFFICIAL.

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL OSHA AND DOSH SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE. PROVIDE TEMPORARY ERECTION BRACING AND SHORING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

CODE
2009 INTERNATIONAL BUILDING CODE (IBC)

DESIGN LIVE LOADS

FLOOR LOADS - FLOOR LIVE LOAD = 250 PSF MAIN FLOOR, WITH A SLAB ON GRADE

SNOW

GROUND SNOW LOAD = 50 PSF
ROOF SNOW LOAD = 40 PSF
SNOW EXPOSURE FACTOR, Ce = 0.90
SNOW LOAD IMPORTANCE FACTOR = 1.0
THERMAL FACTOR, Ct = 1.0

WIND DESIGN DATA

VELOCITY = 110 MPH HOUR 3 SECOND GUST
IMPORTANCE FACTOR, Iw = 1.0
EXPOSURE B
INTERNAL PRESSURE COEFFICIENT, GCp1 = ± 0.18
COMPONENTS AND CLADDING PER ASCE 7-05

SEISMIC DESIGN DATA

Ie = 1.0
Sa = 1.50g, S1 = 0.55g, SDs = 1.00g, SD1 = 0.67
SITE CLASS D
SEISMIC DESIGN CATEGORY D
SEISMIC RESISTING SYSTEM = PER FEMA
SEISMIC BASE SHEAR = Vb = PER FEMA
EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION DESIGN

FOUNDATION BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 2500 PSF, WITH THE EXISTING SOIL TO BE FREE OF ORGANICS, AND NON-FROST SUSCEPTIBLE MATERIAL THROUGHOUT. CONTRACTOR TO NOTIFY OWNER ONCE EXCAVATION HAS BEGUN TO VERIFY WITH A BOTTOM OF THE HOLE INSPECTION THAT THE ACTUAL SITE CONDITIONS COMPLY WITH THESE ASSUMPTIONS.

ALL ORGANIC, FROZEN OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUB-GRADE AND REPLACED WITH COMPACTED GRANULAR NON-FROST SUSCEPTIBLE (NFS) FILL. ALL FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED, NATURAL SUB GRADE OR COMPACTED NFS BACK FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 2500 PSF.

NON FROST SUSCEPTIBLE SOILS SHALL CONSIST OF INORGANIC SOILS CONTAINING LESS THAN 3 PERCENT BY WEIGHT OF PARTICLES SMALLER THAN .075MM.

ALL FOOTINGS AND SLAB SUB-GRADES SHALL BE COMPACTED TO 95 % MAXIMUM DENSITY AS MEASURED WITH ASTM D1557. BACK FILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY.

DISCHARGE ROOF RUNOFF AWAY FROM THE FOUNDATION. PROVIDE SITE DRAINAGE AWAY FROM THE FOUNDATION. PROVIDE FOUNDATION WALL WATERPROOFING/DAMP PROOFING WHEN REQUIRED BY THE CODE AS SHOWN ON THE ARCHITECTURAL PLANS.

NO CONSTRUCTION SHALL BEGIN UNTIL ALL SEASONAL FROST HAS THAWED OR BEEN REMOVED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY STEPS TO PREVENT ANY FROST OR ICE FROM FORMING UNDER ANY FOOTING OR SLAB UNTIL THE PERMANENT STRUCTURE IS ENCLOSED AND HEATED.

CONCRETE

ALL CONSTRUCTION SHALL BE PER THE AMERICAN CONCRETE INSTITUTE ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND IBC, LATEST EDITIONS. SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT PRIOR TO FABRICATION.

MATERIALS:

f'c FLOOR SLABS 3000 psi
f'c OTHER 3000 psi
SLUMP 4" MAX
W/C RATIO - 0.45 MAX
AIR ENTRAINMENT + 5% (WHERE WEATHER EXPOSED)
PORTLAND CEMENT - ASTM C150 TYPE I/II
AGGREGATE, 1" MAX - ASTM C94, SECTION 4.13
EPOXY GROUT - ASTM C881
DEFORMED REINFORCEMENT - ASTM A614 G60
WELDED WIRE FABRIC - ASTM A185 OR A497
NON-SHRINK NONMETALLIC GROUT - ASTM C1107

ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH ASTM C260. CHAMFER ALL EXPOSED CORNERS 3/8" UNLESS NOTED OTHERWISE. A CURING COMPOUND SHALL BE APPLIED (PER MANUFACTURER'S SPECIFICATIONS) TO ALL EXPOSED CONCRETE SURFACES UPON INITIAL SET OR PULLING OF FORMS.

COLD WEATHER CONCRETE SHALL CONFORM TO ACI 306 (ALL COLD WEATHER CONCRETE SHALL CONTAIN AIR ENTRAINMENT PER ACI TABLE 4.11). CALCIUM CHLORIDE SHALL NOT BE USED. MAINTAIN A MINIMUM OF 45 DEGREES F BEFORE, DURING AND FOR 7 DAYS AFTER ALL CONCRETE PLACEMENT.

ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318 AND ACI 315. LAP BARS WITH A CLASS B SPLICE AND 40 DIAMETER MINIMUM. MECHANICALLY CONSOLIDATE CONCRETE.

ALL CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL CONFORM WITH ALL PROVISIONS SPECIFIED IN ACI 318, SECTION 6.3 AND THE FOLLOWING. ALL PIPES AND CONDUITS THRU FOOTINGS AND WALLS MUST BE ISOLATED WITH DIAMETER 4" SLEEVES SPACED NO CLOSER THAN 6" O.C. PIPE AND CONDUITS MAY BE PLACED IN S.O.G. GREATER THAN 45° - DIAMETER MUST NOT EXCEED 15". PLACE IN MIDDLE THIRD OF THICKNESS - DO NOT DISPLACE REINFORCEMENT. SPACE AT 6" O.C. MINIMUM. SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS SHALL BE PROVIDED AS SHOWN ON THE MECHANICAL AND ARCHITECTURAL DRAWINGS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURERS. INSTALLATION OF THESE ITEMS SHALL BE COORDINATED WITH SHOP DRAWINGS OF TRADES REQUIRING THESE ITEMS.

CONCRETE COVER:

FOOTINGS 3", WALLS 1" EXCEPT 1-1/8" WHERE EXPOSED TO WEATHER, AND 2" AGAINST EARTH. SLABS AND JOISTS 1", SLABS ON GRADE 1-1/8". DOWELS SHALL BATCH SIZE AND NUMBER OF MAIN REINFORCING. MINIMUM VERTICAL SPACING OF BARS IN A ROW MAXIMUM 1" OR BASE DIAMETER AND BARS MUST STACK. WELDING OF REINFORCEMENT IS NOT ALLOWED.

FOOTINGS:

PROVIDE REINFORCING AS SHOWN ON THE DRAWINGS. PROVIDE CORNER BARS OF SAME SIZE AND NUMBER AT CORNERS AND INTERSECTIONS, 40 BAR DIAMETERS OR 24" (WHICHEVER IS GREATER) EACH LEG. PROVIDE VERTICAL DOWELS SAME SIZE, NUMBER AND SPACING AS VERTICAL BARS WITH A 90 DEGREE STANDARD HOOK AT THE BOTTOM OF THE FOOTING, UNO.

SLAB ON GRADE:

FLOOR SLAB SHALL BE 4" THICK CONCRETE SLAB ON GRADE. REINFORCE SLAB WITH 6X6 W2.9X2.9 WWM. REINFORCING SHALL BE SUPPORTED ON APPROVED CHAIRS. CONTRACTOR SHALL TAKE SPECIAL CARE TO ASSURE THAT REINFORCING IS SUPPORTED IN ITS PROPER LOCATION. PLACE MIN 6 MIL VAPOR BARRIER OVER PREPARED FILL IMMEDIATELY BENEATH THE SLAB. PROVIDE ONE OF THE FOLLOWING JOINTS ON THE CENTERLINES OF THE COLUMNS, EACH WAY, AND AT OTHER LOCATIONS AS SHOWN ON THE DRAWINGS, MAXIMUM SPACING OF 15': 1) CONSTRUCTION JOINTS WHERE DETAILED ON THE DRAWINGS, 2) SAW CUT CONTROL JOINTS ELSEWHERE (SHALL BE A MINIMUM OF 1/4 OF SLAB THICKNESS). A METAL CONSTRUCTION JOINT FORM MAY BE USED. REMOVE METAL FORMS BEFORE PLACING SECOND POUR.

AT CORNERS, PROVIDE CORNER BARS INTO OUTSIDE FACE OF SAME SIZE AND SPACING AS HORIZONTAL BARS, 40 DIAMETERS EACH LEG.

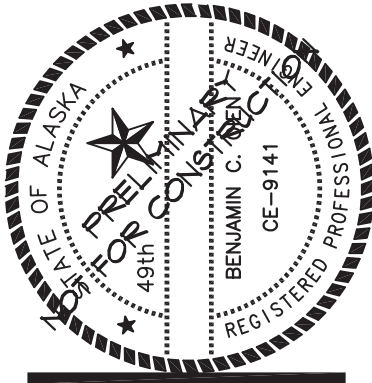
AT INTERSECTIONS, PROVIDE CORNER BARS IN OUTSIDE FACE OF SAME SIZE AND SPACING AS HORIZONTAL BARS OF INTERSECTING WALL, 40 DIAMETERS EACH LEG.

PRE-ENGINEERED METAL BUILDING

FOUNDATION DESIGN AND METAL BUILDING LAYOUT BASED ON THE METAL BUILDINGS DRAWINGS. CONTRACTOR TO VERIFY THE BASE PLATE LAYOUT IS BASED ON THE LATEST SHOP DRAWINGS FROM THE MANUFACTURER, AND THESE DRAWINGS CONFORM TO THOSE DRAWINGS.

ABBREVIATIONS

E.W. - EACH WAY
IBC - INTERNATIONAL BUILDING CODE
I.S. - INSIDE
O.S. - OUTSIDE
F.O.S. - FACE OF STUD
HDG - HOT DIP GALVANIZED
MFG - MANUFACTURER
PEMB - PRE-ENGINEERED METAL BUILDING
SIM - SIMILAR TO
SIP - STRUCTURAL INSULATED PANELS
TYP. - TYPICAL
UNO - UNLESS NOTED OTHERWISE
W.T.E. - WITH THE EXCEPTION
WWM. - WELDED WIRE MESH



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Oien Associates, Inc.
Construction Management Engineering Inspections
16922 Hanson Drive
Eagle River, AK 99571
Phone: (907) 634-0507
Fax: (907) 634-0508
email: bolene@oienet.net

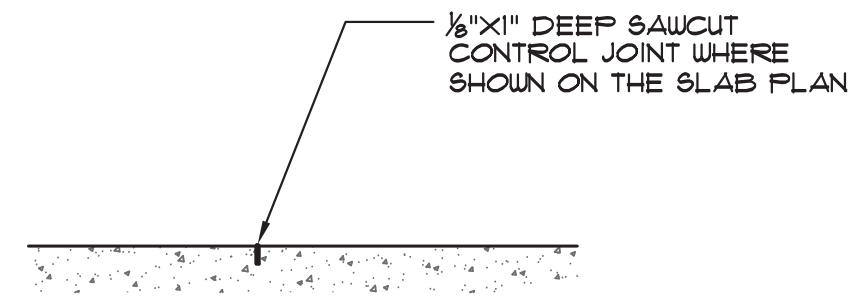
CAMP CARROLL, JBER
BUILDING #60606
ADDITION

STRUCTURAL NOTES

JOB NO. 32524

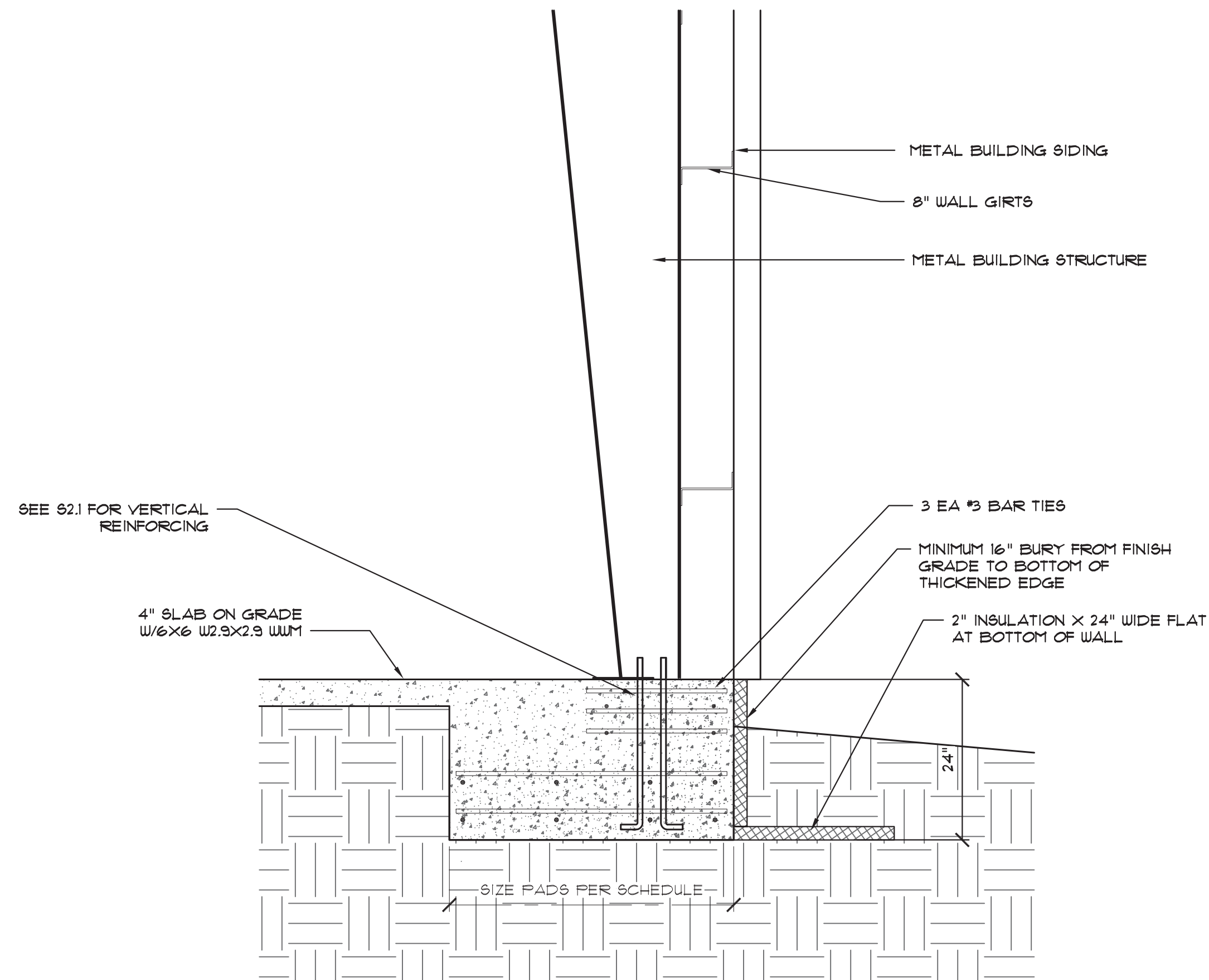
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DATE: 28 FEB 2014

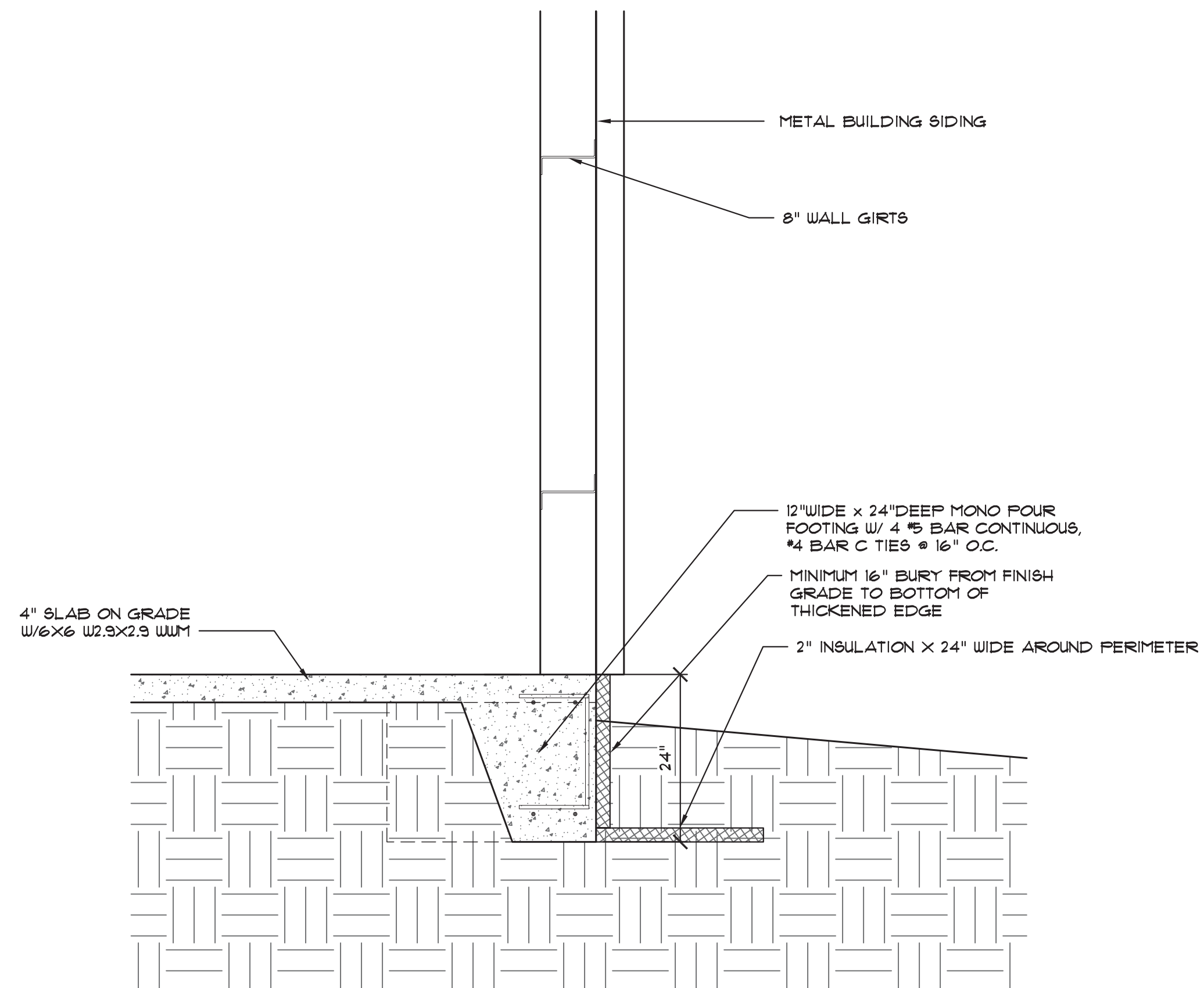


1 CONTROL JOINT DETAIL
Scale: 3/4" = 1'-0"

THE PAD SIZING AND DETAILS SHOWN IS SCHEMATIC, AND WILL BE VERIFIED IN SUBSEQUENT SUBMISSIONS



2 Typical Pilaster Detail
Scale: 3/4" = 1'-0"



3 Typical Endwall/Grade Beam Detail
Scale: 3/4" = 1'-0"

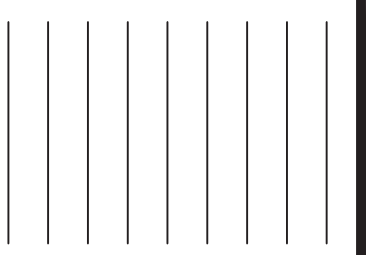


GDM inc.
ARCHITECTURE • PLANNING

Oien Associates, Inc.
Construction Management Engineering Inspections
Phone: (907) 634-0507
Fax: (907) 634-0508
Email: bolene@oienet
16922 Hanson Drive
Eagle River, AK 99571

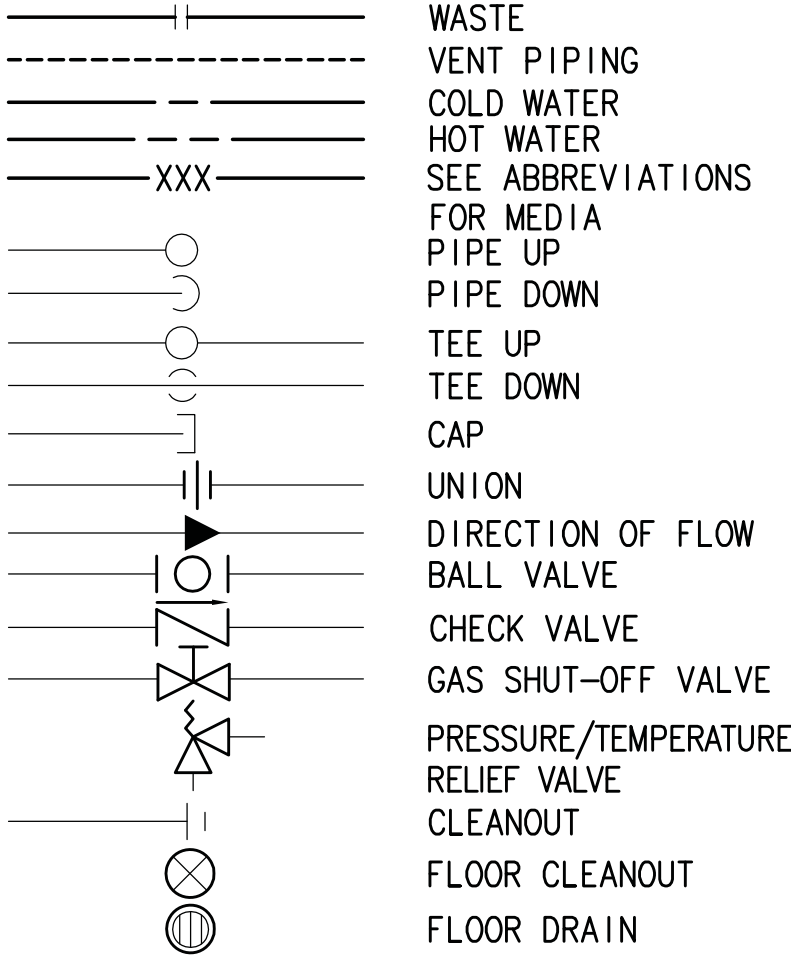
CAMP CARROLL, JBER
BUILDING #60606
ADDITION

FOUNDATION DETAILS

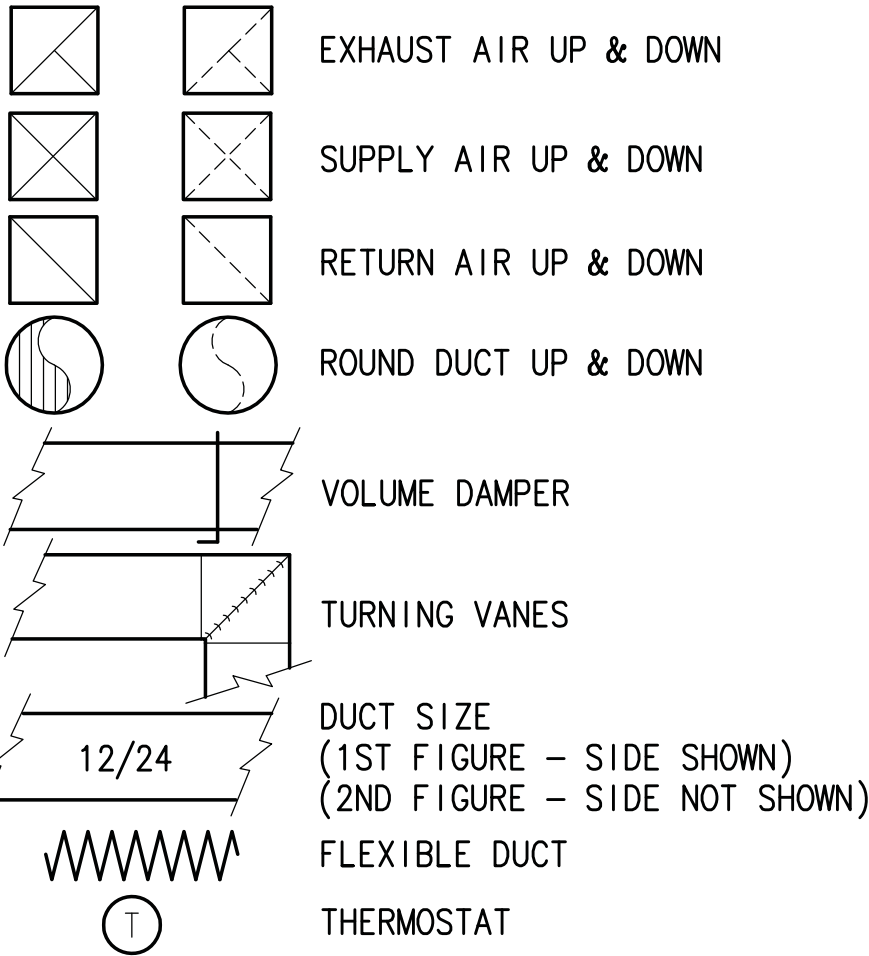


THIS DRAWING MEASURES 34"x22" AT FULL SCALE

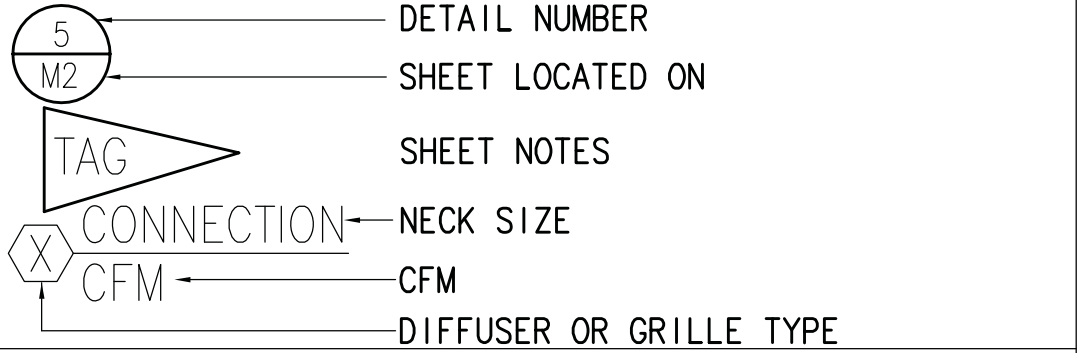
LEGEND



DUCTWORK LEGEND



LOGIC



ABBREVIATIONS

ADA	AMERICAN WITH DISABILITIES ACT GUIDELINES
AFG	ABOVE FINISHED GRADE
AMPS	AMPERES
AHU-X	AIR HANDLING UNIT DESIGNATOR
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL
BDD	BACKDRAFT DAMPER
BTUH	BRITISH THERMAL UNIT/HOUR
C/A	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
CU	COPPER
CW	COLD WATER
DEG	DEGREE

DIA	DIAMETER
DWG	DRAWING
E/A	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EGT	ENTERING GLYCOL TEMPERATURE
EF-X	EXHAUST FAN DESIGNATOR
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
F	FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FIRE DAMPER
FD-X	FLOOR DRAIN DESIGNATOR
FPM	FEET PER MINUTE
FT	FEET
G	NATURAL GAS
GA	GAUGE
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
HW	HOT WATER
IBC	INTERNATIONAL BUILDING CODE
IN	INCHES
LAT	LEAVING AIR TEMPERATURE

MFGR	MANUFACTURER
MBH	THOUSAND BTUH
NC	NOISE CRITERIA
NTS	NOT TO SCALE
O/A	OUTSIDE AIR
P-X	PLUMBING FIXTURE DESIGNATOR
PD	PRESSURE DROP
PH	PHASE
PSI	POUND PER SQUARE INCH
RPM	ROTATIONS PER MINUTE
S/A	SUPPLY AIR
SP	STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UPC	UNIFORM PLUMBING CODE
V	VENT
VEL	VELOCITY
VTR	VENT THRU ROOF
W	WASTE
W.C.	WATER COLUMN
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WHA	WATER HAMMER ARRESTOR
WPD	WATER PRESSURE DROP
YCO	YARD CLEAN OUT

WHA SCHEDULE

SYMBOL	SIZE	FIXTURE UNITS
WHA-A	1/2"	1-11
WHA-B	3/4"	12-32
WHA-C	1"	33-60

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MOUNTING	CW	HW/TW	WASTE	VENT	TRAP	BASIS OF DESIGN	MODEL	COLOR	TRIM/REMARKS
P-1	WATER CLOSET-ADA	FLOOR	1	—	4	2	—	KOHLER	K-4368 HIGHCLIFF	WHITE	KOHLER K-4670-C ELONGATED OPEN FRONT SEAT, TOP INLET, SLOAN ROYAL 111-1.6 FLUSH VALVE, 1.6 GPF.
P-1A	WATER CLOSET-ADA	FLOOR	—	—	4	—	—	KOHLER	K-4368 HIGHCLIFF	WHITE	KOHLER K-4670-C ELONGATED OPEN FRONT SEAT, TOP INLET, SLOAN ROYAL 111-1.6 FLUSH VALVE, 1.6 GPF.
P-1B	WATER CLOSET	FLOOR	—	—	4	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-2	LAVATORY-ADA	WALL	1/2	1/2	2	1-1/2	1-1/4	KOHLER	K-2005-KINGSTON	WHITE	DELTA FAUCET MODEL# 22C451 WITH METAL GRID STRAINER, 0.5 GPM FLOW RATE, TRU-BRO LAVATORY SHIELD, OFFSET P-TRAP FOR ADA COMPLIANCE, PROVIDE POINT OF USE TEMPERING VALVE.
P-2A	LAVATORY	WALL	—	—	2	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-3	URINAL	WALL	—	—	2	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-4	SHOWER	FLOOR	—	—	2	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-4A	SHOWER	FLOOR	—	—	2	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
P-5	SERVICE SINK	FLOOR	—	—	3	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
WB-1	WASHER BOX	WALL	—	—	2	—	—	FUTURE	—	—	ROUGH IN UNDERFLOOR WASTE PIPING AS INDICATED ON PLANS.
FD-1	FLOOR DRAIN	FLOOR	—	—	2	2	2	J.R.SMITH	2005-A	—	ROUND TOP, TRAP PRIMER CONNECTION.

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	MFGR/MODEL	TYPE	POWER DATA WATTS VOLTS AMPS PH	REMARKS
EW-1	EEMAX/SP2412	ELEC	2400 120 2.4 1	POINT OF USE WATER HEATER, HARDWARE CONNECTION.

GAS FIRED PACKAGED UNIT SCHEDULE

SYMBOL	MFGR/MODEL	TONNAGE	LOCATION	AREA SERVED	EER (IEER)	COOLING CAPACITY EWB EDB TOTAL MBH	HEATING IMPUT MBH	BLOWER CFM ESP (IN. WC)	FAN RPM	INDOOR MOTOR HP	WEIGHT (LBS)	MCA	VOLTS	PHASE	REMARKS
AHU-1	TRANE/YSC092F	7.5	GROUND	BUILDING	13.00	62 75 93	200	3000 1.0	903	1.0	847.0	39.3	208	3	STANDARD EFFICIENCY UNIT. SEE NOTES BELOW. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.

NOTES:

1. PROVIDE WITH HIGH GAS HEAT OPTION.
2. PROVIDE WITH ECONOMIZER, FREEZESTAT, CIRCUIT BREAKER, RETURN AIR SMOKE DETECTOR, THRU THE BASE ELECTRICAL, PROGRAMMABLE ZONE SENSOR
3. UNITS OVER 2000 CFM SHALL INCLUDE SMOKE DETECTOR AND AUDIO VISUAL ALARM IN OCCUPIED SPACE. DETECTOR AND ALARM TO BE PROVIDED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR TO COORDINATE SMOKE DETECTOR AND AUDIO VISUAL ALARM LOCATION WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.

FAN SCHEDULE

SYMBOL	MFGR/MODEL	TYPE	SERVICE	CFM	ESP IN W.C.	RPM	MOTOR DATA WATTS VOLTS/PH	DRIVE	REMARKS
EF-1	COOK/GC-420	CEILING	RESTROOMS	200	0.50	1145	144 120/1	DIRECT	INTERLOCKED WITH LOCAL LIGHTING CIRCUIT, PROVIDE INSULATED ROOF CURB WITH WALL CAP.

AIR INLET/OUTLET SCHEDULE

SYMBOL	MFGR/MODEL	TYPE	USE	MATERIAL	FINISH	CFM	FACE SIZE (IN)	NC	THROW	REMARKS
	T1TUS/DL-	DRUM LOUVER	S/A	STEEL	—	PER PLANS	18x6	<20	33 FT	DUCT MOUNTED EXPOSED DRUM LOUVER.



THIS DRAWING MEASURES 34"x22" AT FULL SCALE

GENERAL NOTES

PLANS – THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAWINGS ARE PARTLY DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL. CONTRACTOR TO COORDINATE EQUIPMENT LOCATION WITH ELECTRICAL PLANS TO AVOID CONFLICT.

COMPLETE PROJECT – THE INTENT OF THIS PROJECT IS TO LET ONE CONTRACT WHICH INCLUDES ALL WORK REQUIRED FOR A COMPLETE JOB. THIS INCLUDES ALL ELECTRICAL, CARPENTRY, PLUMBING, SHEET METAL, PAINTING, CLEAN UP, ETC. AS REQUIRED.

CODE – ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL PLUMBING CODE (IPC) AND NATIONAL ELECTRICAL CODE (NEC) CODE (IBC), AS AMENDED BY THE STATE OF ALASKA.

WARRANTY – ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM ACCEPTANCE. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.

ELECTRICAL WORK – ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

EQUIPMENT SUBSTITUTIONS – ALL EQUIPMENT LISTED IS REPRESENTATIVE OF THE STANDARD SIZE, WEIGHT AND QUALITY OF EQUAL SUBSTITUTIONS WILL BE CONSIDERED IF THE SUBSTITUTES ARE SHOWN TO BE EQUAL OR BETTER QUALITY, INCLUDING EFFICIENCY OF PERFORMANCE, AS ACCEPTED BY THE OWNER.

MATERIALS – ALL MATERIALS SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER’S DIRECTIONS AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN OWNER’S APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

OPERATION AND MAINTENANCE MANUAL – PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL, TO INCLUDE MANUFACTURER’S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, AND SCHEMATIC DIAGRAMS OF CONTROL SYSTEMS AS–BUILT, AS WELL AS A SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE.

ACCESS – PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.

EQUIPMENT INSTALLATION: INSTALL ALL EQUIPMENT WHERE NOTED ON THE DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES, ACCESSORIES, SUPPORTS AND CONTROL CONNECTIONS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. MAINTAIN MANUFACTURER’S RECOMMENDED SERVICE CLEARANCES.

BALANCE – THE CONTRACTOR SHALL BALANCE THE AIR SYSTEM TO THE SATISFACTION OF THE OWNER. AIRFLOWS ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOWS PER AABC RECOMMENDED METHODS.

SEISMIC RESTRAINT – ALL EQUIPMENT INSTALLED UNDER THIS PROJECT SHALL BE BRACED FOR A SEISMIC EVENT IN ACCORDANCE WITH THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE. CONTRACTOR TO PROVIDE SEISMIC CALCULATIONS AND SHOP DRAWINGS PREPARED AND SEALED BY A STRUCTURAL ENGINEER TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL.

PIPING

BURIED WASTE AND VENT PIPING – ABS PIPE: ASTM D2751. FITTINGS: ABS. JOINTS: ASTM D2235, SOLVENT WELD.

ABOVE GRADE WASTE PIPING: ABS PIPE: ASTM D2751. FITTINGS: ABS. JOINTS: ASTM D2235, SOLVENT WELD.

DOMESTIC WATER PIPING BURIED – COPPER TUBING: ASTM B42, TYPE K ANNEALED. FITTINGS: ASME B16.22, WROUGHT COPPER. JOINTS: ASTM B32, SOLDER, GRADE 95TA; FLUX: ASTM B813.

DOMESTIC WATER PIPING, EXPOSED ABOVE GROUND – COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ASME B16.18 CAST BRONZE OR ASME B16.22 WROUGHT COPPER. JOINTS: ASTM B32, LEAD FREE SOLDER, WATER SOLUBLE FLUX.

NATURAL GAS PIPING ABOVE GRADE – STEEL PIPE: ASTM A53, SCHEDULE 40 BLACK. FITTINGS: ASME B16, MALLEABLE IRON, OR ASTM A 234/A234M, FORGED STEEL WELDING TYPE. JOINTS: NFPA 54, SCREWED FOR PIPE 2 INCHES AND UNDER AND IF LOW PRESSURE, OR IF MEDIUM PRESSURE AND OUTSIDE BUILDING; ANSI B31.1, WELDED FOR PIPE OVER 2 INCHES.

PIPING SUPPORTS AND HANGERS – SIZED AND SPACED IN ACCORDANCE WITH THE UPC. INSTALLED AS PER THE MANUFACTURER’S INSTRUCTIONS.

VALVES AND UNIONS ETC.

BALL VALVES – UP TO 2 INCHES: CLASS 150, BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING, BLOW–OUT PROOF STEM, LEVER HANDLE, SOLDER OR THREADED ENDS.

SPRING LOADED CHECK VALVES – IRON BODY, BRONZE TRIM, STAINLESS STEEL SPRING, REMOVABLE COMPOSITION DISC, SCREWED, WAFER OR FLANGED ENDS.

DIELECTRIC CONNECTIONS: UNION WITH GALVANIZED OR PLATED STEEL THREADED END, COPPER SOLDER END, WATER IMPERVIOUS ISOLATION BARRIER; CLEAR FLOW PRODUCTS ALLOWED.

FLANGES, UNIONS, AND COUPLINGS – 150 PSIG MALLEABLE IRON UNIONS FOR THREADED FERROUS PIPING; BRONZE UNIONS FOR COPPER PIPE, SOLDERED JOINTS.

GAS ISOLATION VALVE – UP TO 2 INCHES: BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE THREADED ENDS, AGA LISTED.

INSULATION

PIPING: TYPE A: GLASS FIBER, RIGID, MOLDED, NON–COMBUSTIBLE INSULATION; ANSI/ASTM C547; ‘K’ VALUE OF 0.24 AT 750 DEG F, RATED TO 850 DEG F, VAPOR RETARDER JACKET OF KRAFT PAPER BONDED TO ALUMINUM FOIL; JOHNS–MANVILLE “MICRO–LOK” OR EQUAL.

PIPING	TYPE	SIZE, IN	INSULATION THICKNESS, IN
DOMESTIC WATER,	A	ALL SIZES	1”
PLUMBING VENT THROUGH ROOF	A	ALL SIZES	1”
PIPING EXPOSED TO FREEZING	A	ALL SIZES	2”
BURIED PIPING	A	ALL SIZES	1”

VAPOR BARRIER JACKETS – KRAFT REINFORCED FOIL VAPOR BARRIER WITH SELF SEALING ADHESIVE JOINTS.

DUCT INSULATION: TYPE B: EXTERIOR FSK DUCT WRAP: FLEXIBLE GLASS FIBER; ANSI/ASTM/C552; COMMERCIAL GRADE; K–VALUE OF 0.27 AT 75 DEG F; RIGID FIBER BOARD; ANSI/ASTM C612, K VALUE OF 0.24 AT 75 DEG F.0.00035 INCH FOIL SCRIM FACING. JOHNS–MANVILLE “MICROLITE” CERTAINTEEED “IB BOARD” OR EQUAL.

TYPE C: DUCT LINER: FLEXIBLE GLASS FIBER; ANSI/ASTM C1071; ‘K’ VALUE OF 0.24 AT 75° F; COATED AIR SIDE FOR MAXIMUM 5,000 FT./MIN. AIR VELOCITY, UL LISTED ADHESIVE GALVANIZED STEEL PINS. JOHNS–MANVILLE “PERMACOTE LINACOUSTIC” OR APPROVED EQUAL.

DUCTWORK	TYPE	FINISH	INSULATION THICKNESS, IN
EXHAUST AND RELIEF DUCTS	B	FSK	2”
SUPPLY AND RETURN PLENUMS	C	—	1”

IDENTIFICATION

IDENTIFICATION – LABEL ALL EQUIPMENT WITH HEAT RESISTANT LAMINATED PLASTIC LABELS HAVING ENGRAVED LETTERING 1/2” HIGH. IF ITEMS ARE NOT SPECIFICALLY LISTED ON THE SCHEDULES, CONSULT THE ENGINEER CONCERNING DESIGNATION TO USE. SETON ENGRAVED SETON–PLY NAMEPLATES OR EQUAL. IDENTIFY PIPING TO INDICATE CONTENTS AND FLOW DIRECTION OF EACH PIPE EXPOSED TO VIEW BY A LABELED SLEEVE OR PIPE MARKER IN LETTERS READABLE FROM FLOOR AT LEAST ONCE IN EACH ROOM AND AT INTERVALS OF NOT MORE THAN 20’ APART AND ON EACH SIDE OF PARTITION PENETRATIONS. COLORING SCHEME IN ACCORDANCE WITH ANSI A13.1–1981, SETON OPTI–CODE OR EQUAL.

DUCTWORK

LOW PRESSURE DUCTWORK – FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDBOOKS, EXCEPT AS INDICATED. PROVIDE DUCT MATERIAL, GAUGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED.

DUCTWORK – PROVIDE GALVANIZED SHEET METAL RECTANGULAR OR ROUND DUCT WHERE CALLED OUT ON THE PLANS. SEAL ALL DUCT SEAMS AND JOINTS AIRTIGHT. USE TURNING VANES IN ALL SQUARE ELBOWS AND FLAT OVAL ELBOWS. INSTALL VOLUME DAMPERS WHERE SHOWN ON THE DRAWINGS. ALL SHEET METAL WORK TO BE CONSTRUCTED, INSTALLED, TESTED AND BALANCED IN ACCORDANCE WITH SMACNA STANDARDS. SUPPORT LOW AND MEDIUM PRESSURE DUCTWORK PER SMACNA GUIDELINES.

VOLUME DAMPER – FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

SEQUENCE OF OPERATION

AHU–1: DAY AND NIGHT MODE OF OPERATION WILL BE CONTROLLED BY SEVEN (7) DAY PROGRAMMABLE THERMOSTAT. THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

EF–1: FAN TO OPERATE WITH LIGHT SWITCH.

100% DESIGN REVIEW

DR: SR
CK: JAB

JOB NO. L3238

M0.2

DATE: 10 MAR 2014

CAMP CARROLL, JBER

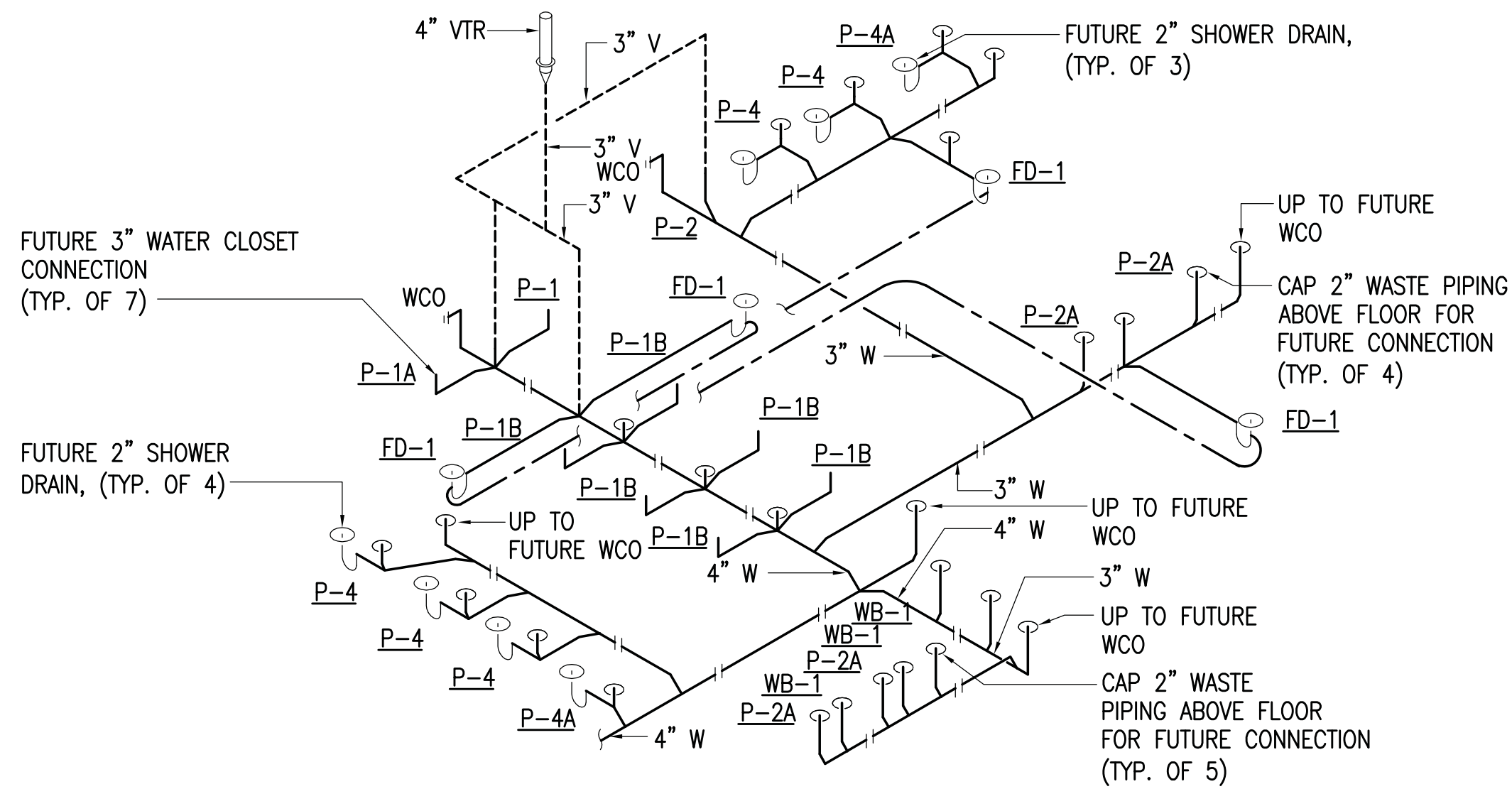
MECHANICAL
SPECIFICATIONS

BUILDING #60606
ADDITION



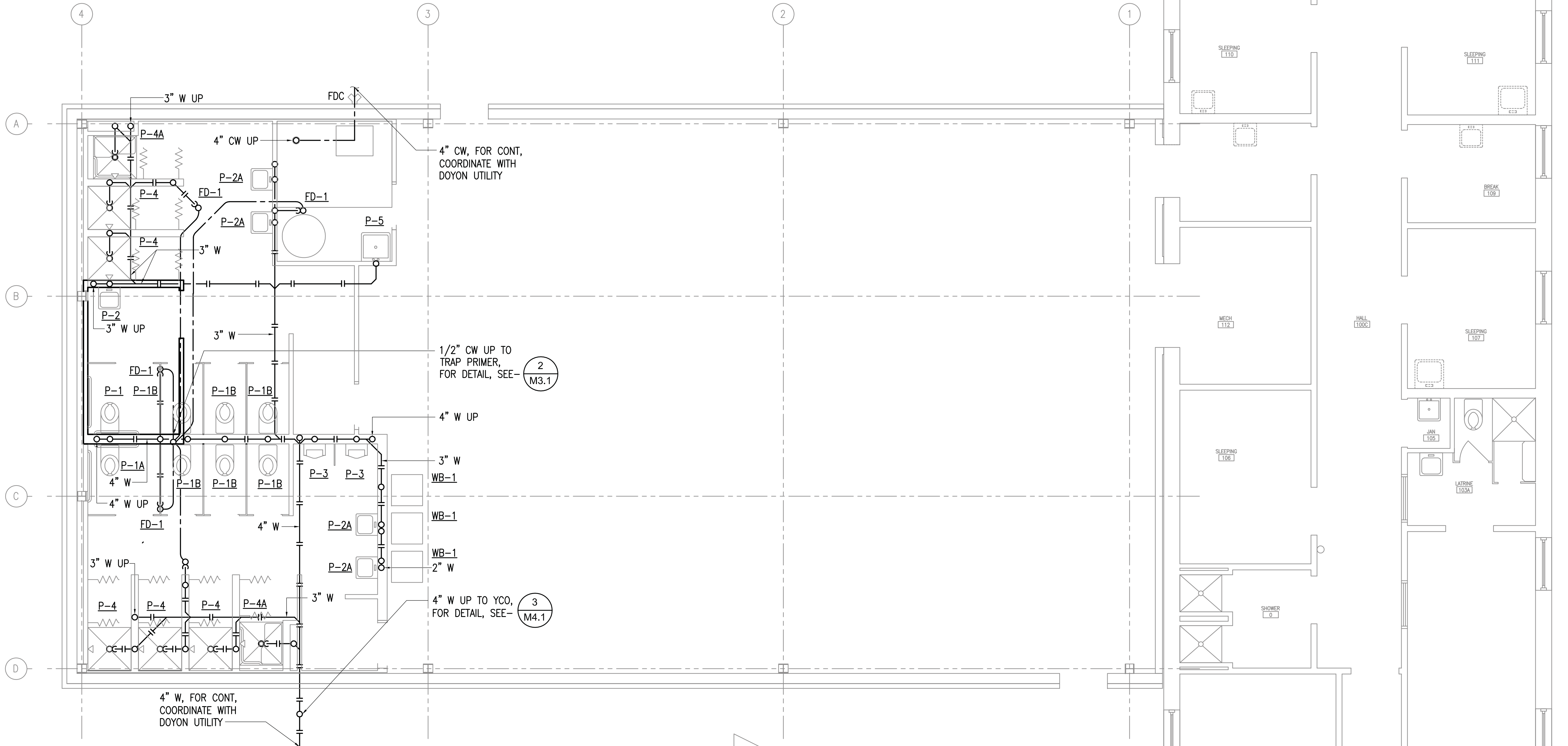
RSA Engineering, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
191 E. Swanton Avenue, Suite 101
2022 Arctic Boulevard, Suite 200
Fairbanks, Alaska 99701 (907) 452-6221

THIS DRAWING MEASURES 34"x22" AT FULL SCALE



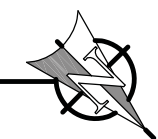
1 WASTE AND VENT PIPING ISOMETRIC

NO SCALE



2 UNDER FLOOR PLUMBING PLAN

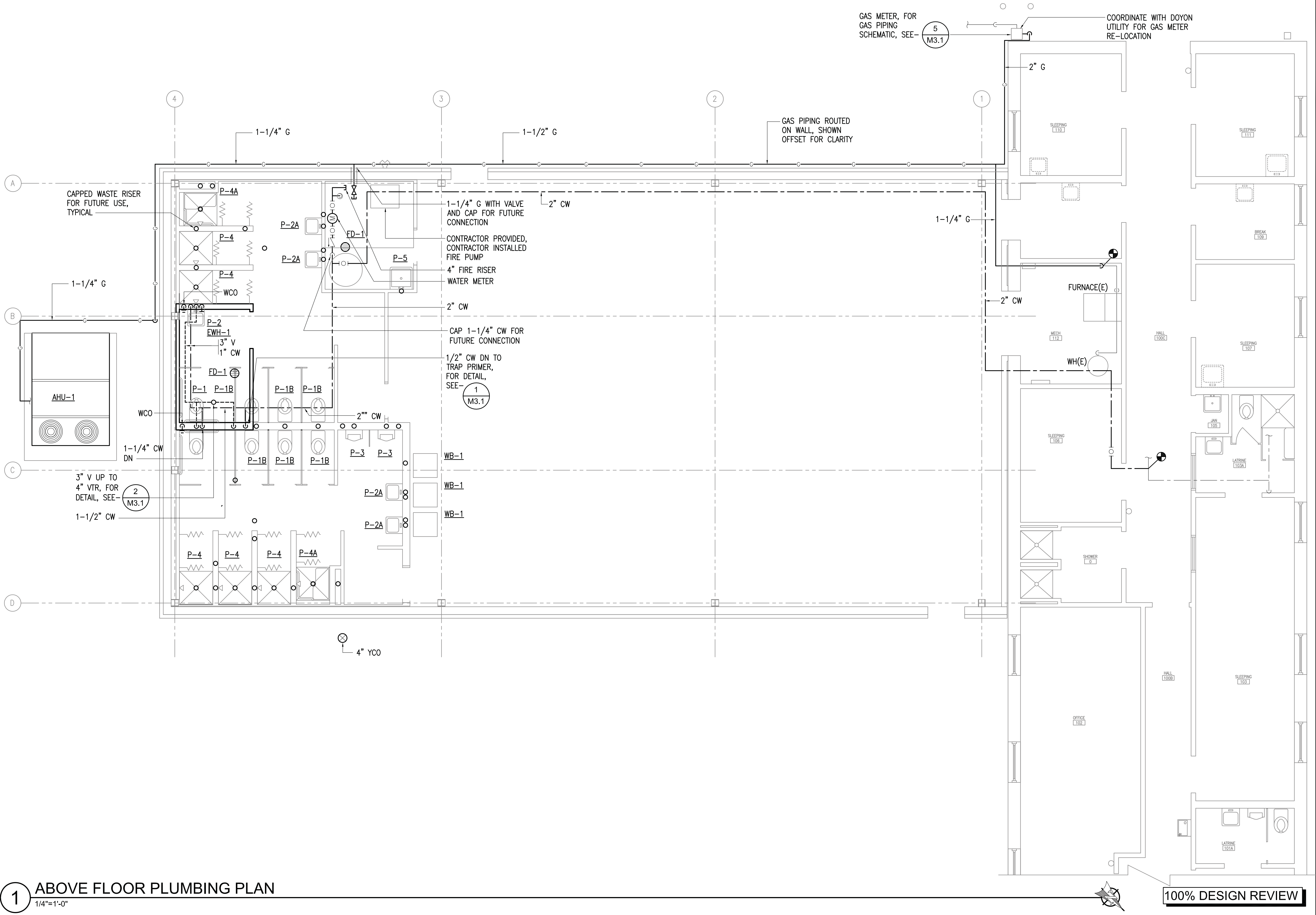
1/4"=1'-0"



100% DESIGN REVIEW

THIS DRAWING MEASURES 34"x22" AT FULL SCALE

1 ABOVE FLOOR PLUMBING PLAN
1/4"=1'-0"



DR: SR
CK: JAB

JOB NO. L3238

M1.2

DATE: 10 MAR 2014

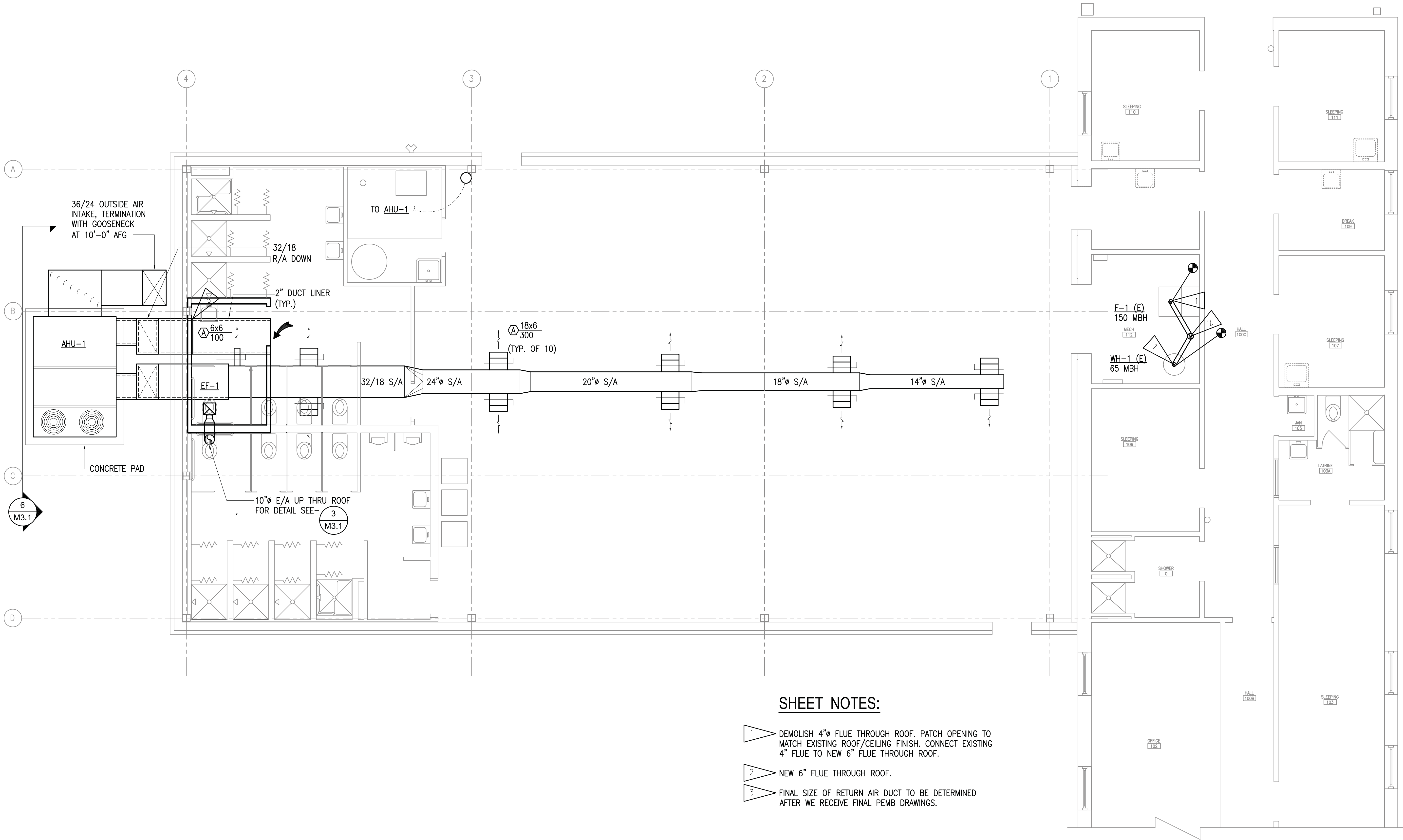
ABOVE FLOOR
PLUMBING PLAN

CAMP CARROLL, JBER
BUILDING #60606
ADDITION



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Anchorage, Alaska 99503 (907) 571-7421

THIS DRAWING MEASURES 34"x22" AT FULL SCALE



1 VENTILATION PLAN
1/4"=1'-0"

SHEET NOTES:

- 1 DEMOLISH 4" FLUE THROUGH ROOF. PATCH OPENING TO MATCH EXISTING ROOF/CEILING FINISH. CONNECT EXISTING 4" FLUE TO NEW 6" FLUE THROUGH ROOF.
- 2 NEW 6" FLUE THROUGH ROOF.
- 3 FINAL SIZE OF RETURN AIR DUCT TO BE DETERMINED AFTER WE RECEIVE FINAL PEMB DRAWINGS.

100% DESIGN REVIEW

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CAMP CARROLL, JBER
BUILDING #60606
ADDITION

VENTILATION PLAN

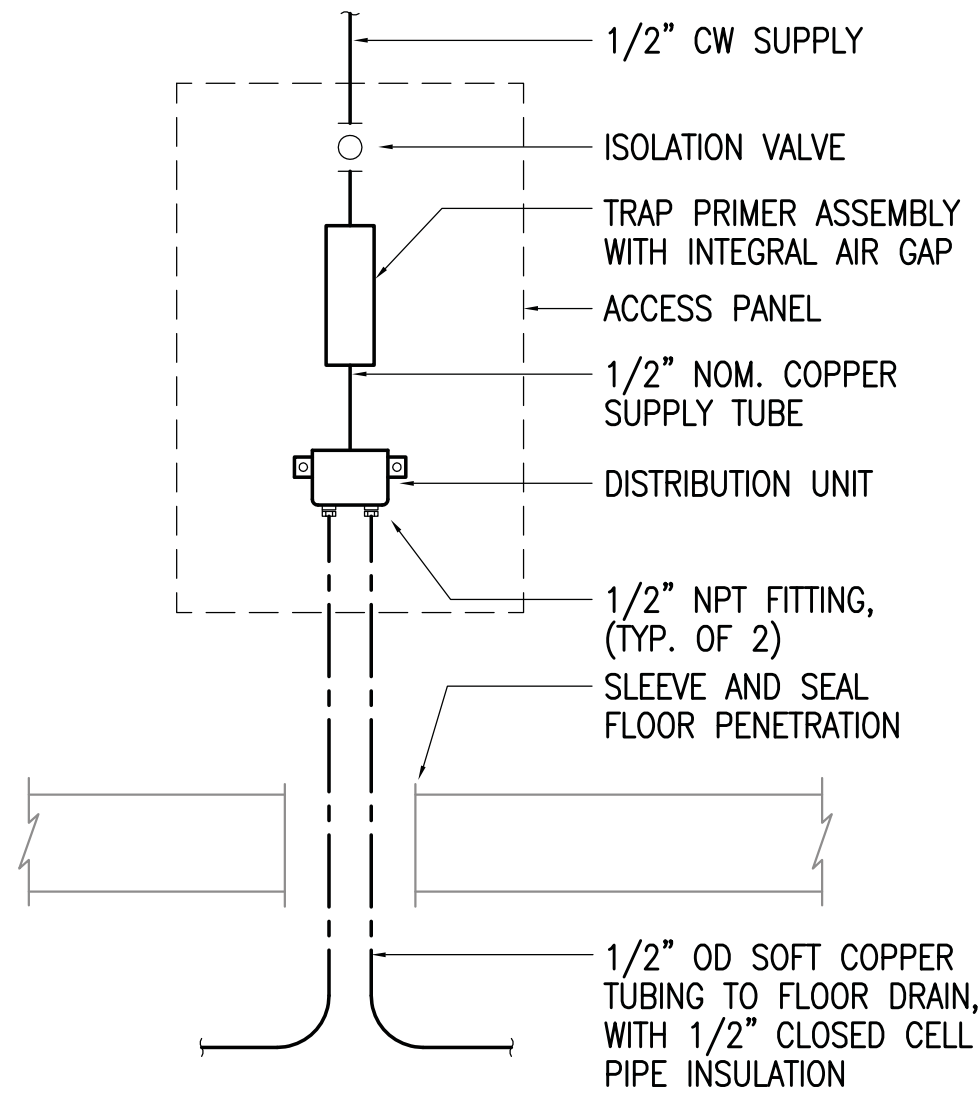
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CK: JAB

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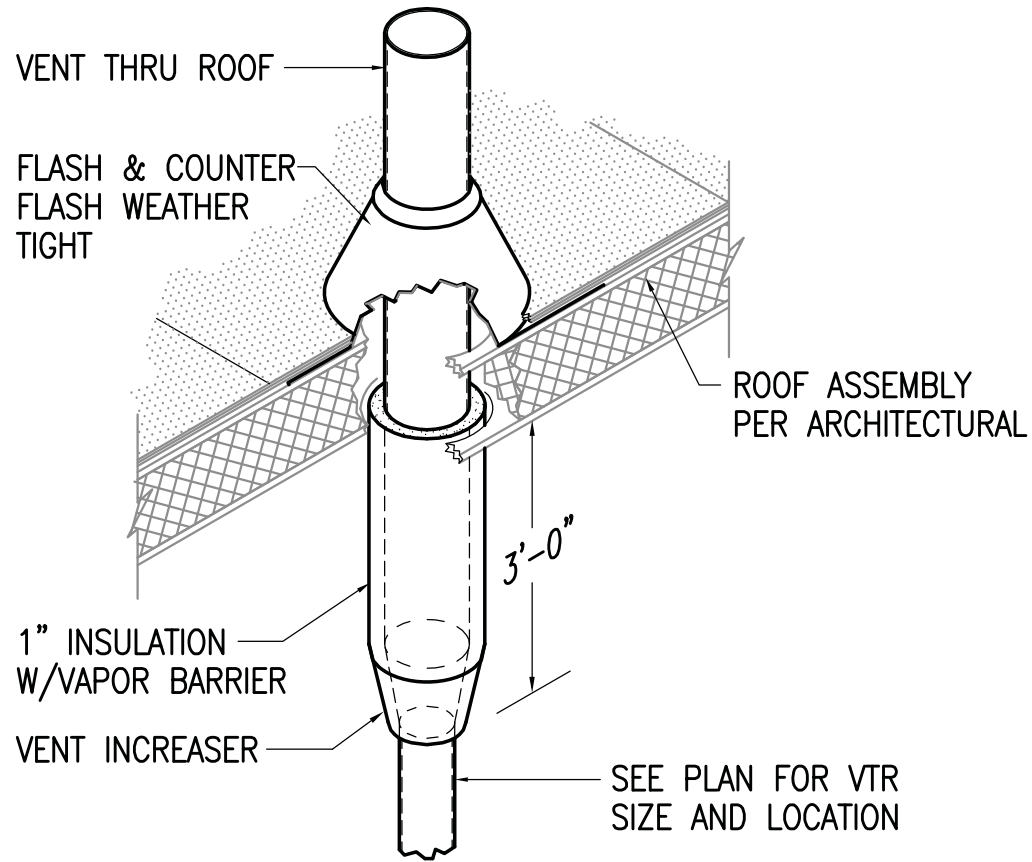
M2.1

DATE: 10 MAR 2014

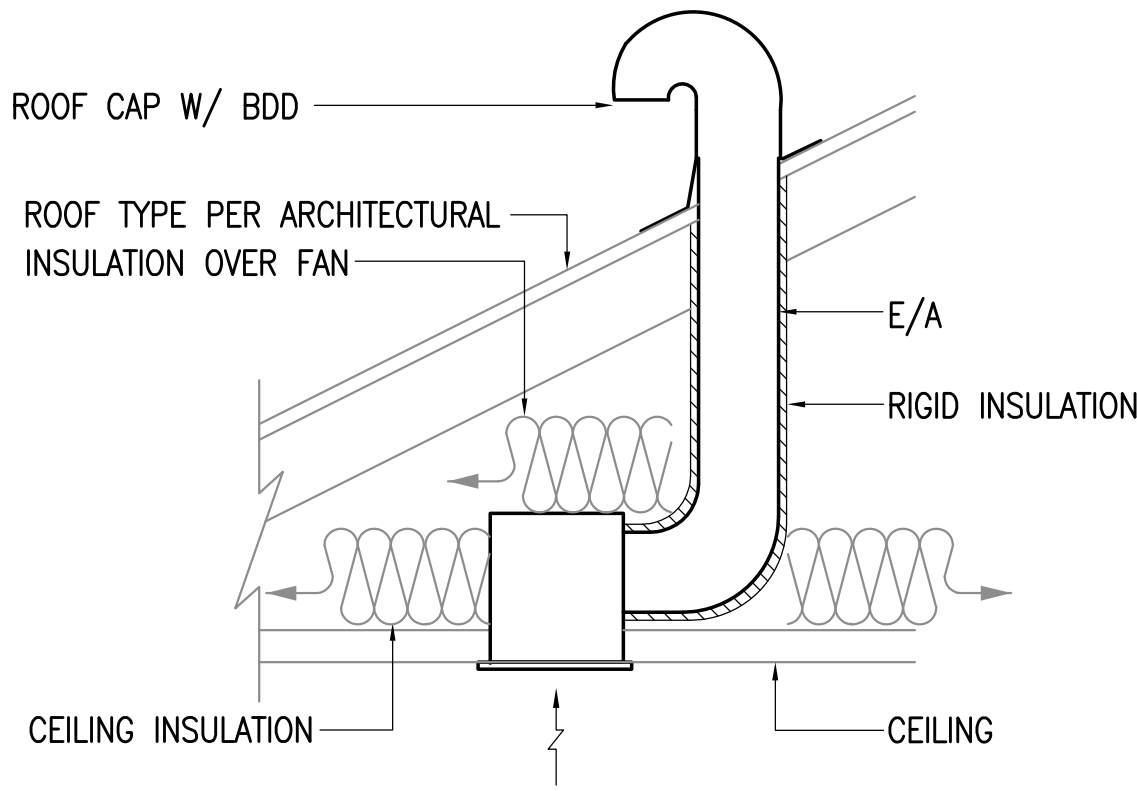
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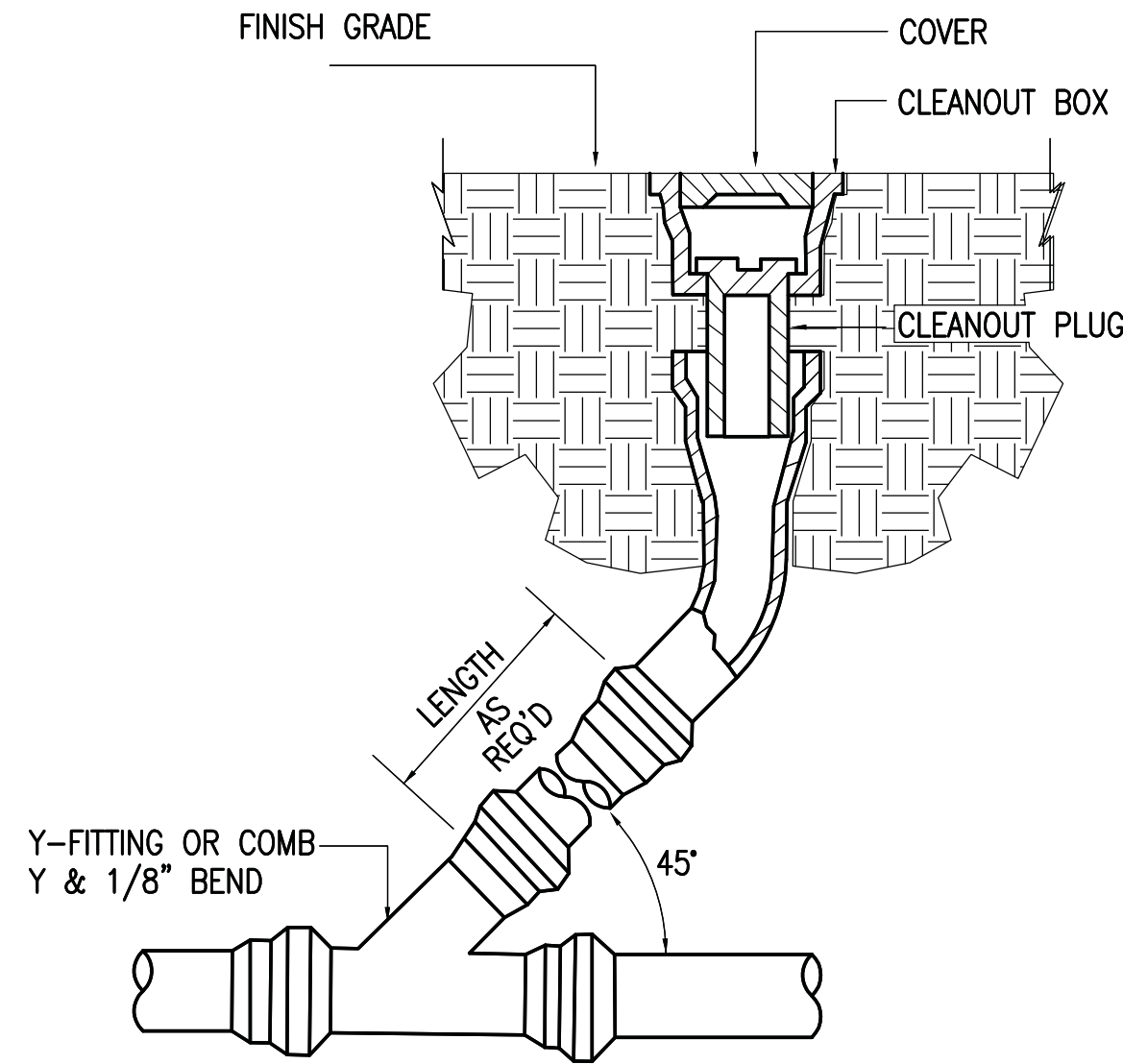
1 TRAP PRIMER DETAIL
NO SCALE



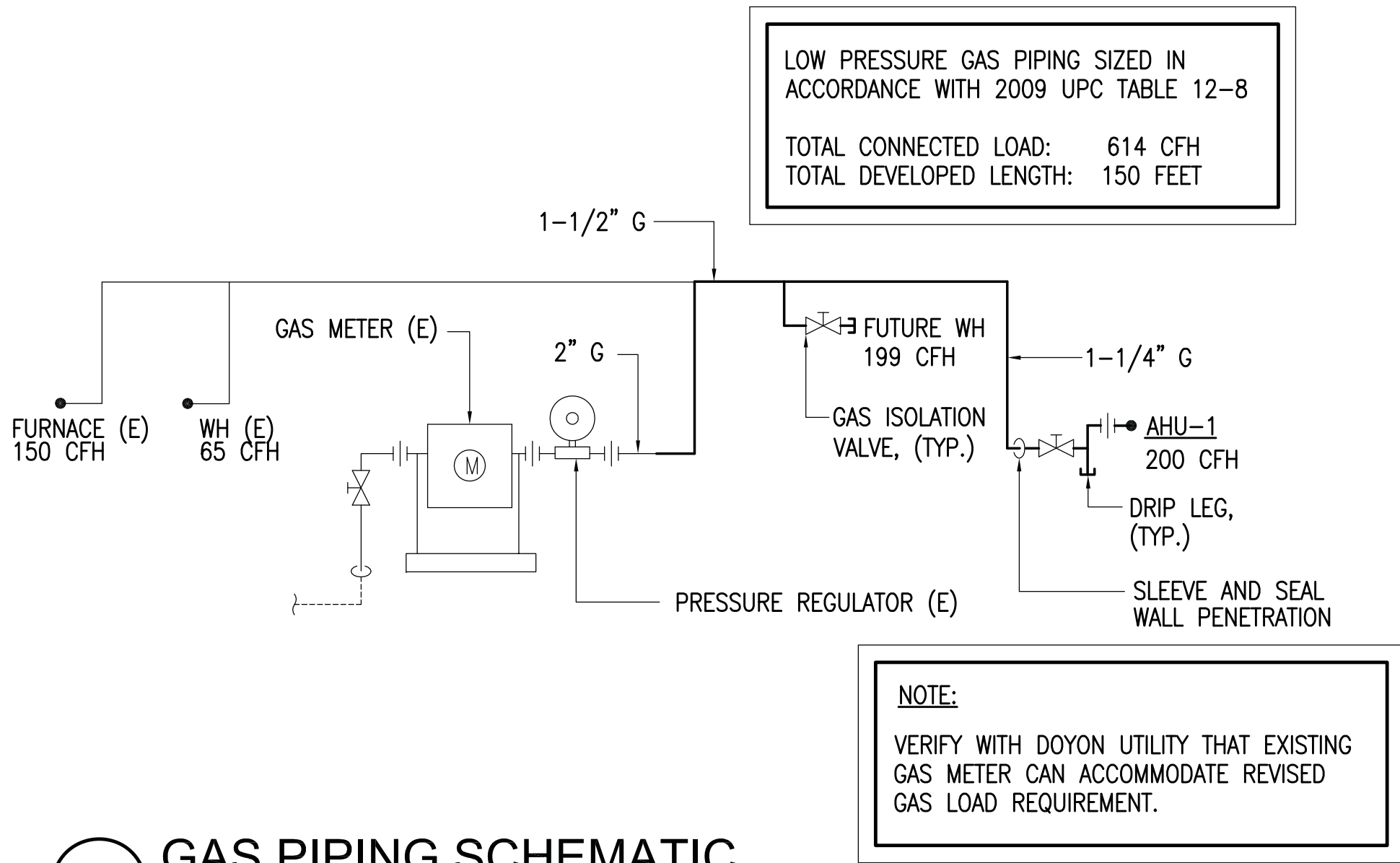
2 VENT THRU ROOF DETAIL
NO SCALE



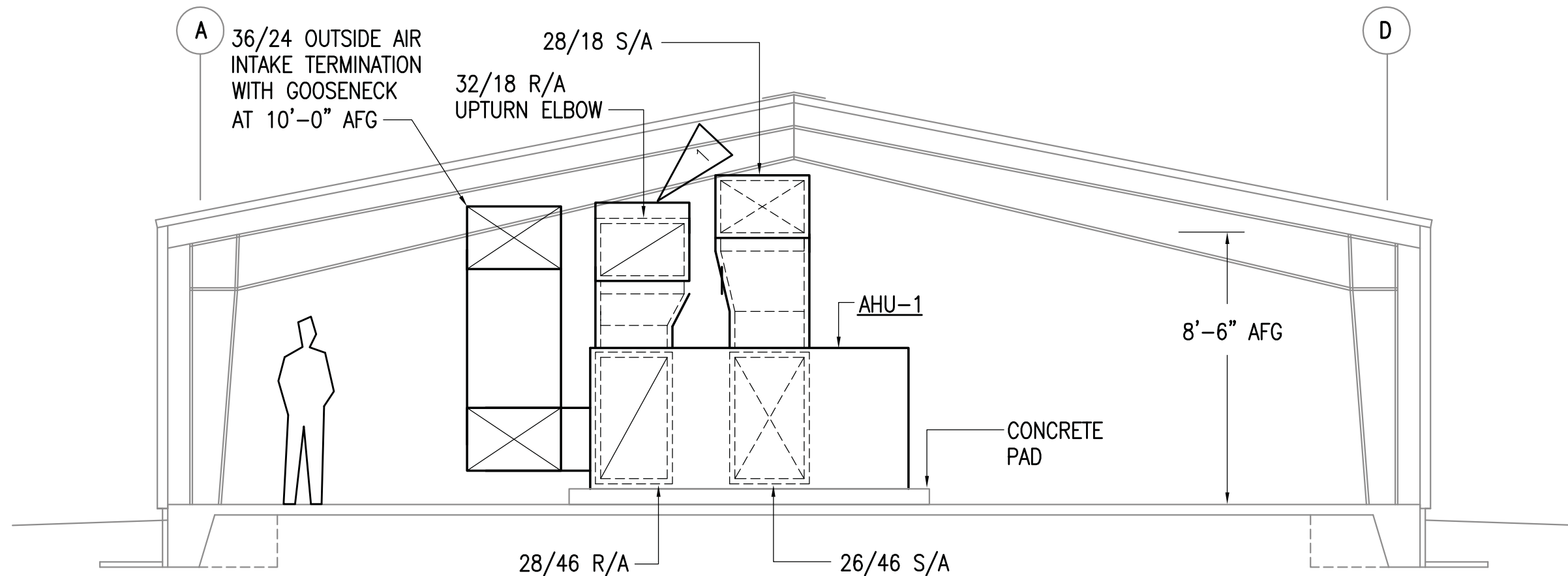
3 EXHAUST FAN DETAIL (TYP.)
NO SCALE



4 YARD CLEANOUT DETAIL
NO SCALE



5 GAS PIPING SCHEMATIC
NO SCALE



NOTE:

1 FINAL SIZE OF RETURN AIR DUCT TO BE DETERMINED AFTER WE RECEIVE FINAL PEMB DRAWINGS.

6 MECHANICAL ELEVATION
NO SCALE

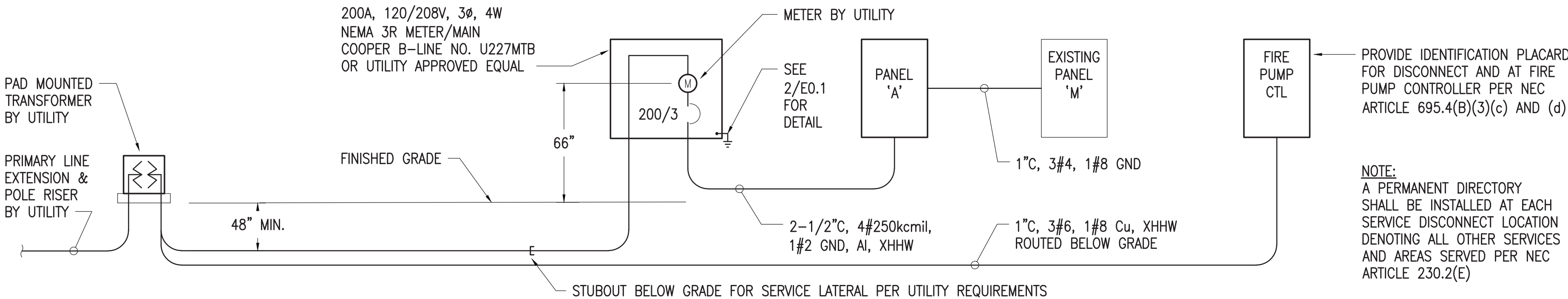
100% DESIGN REVIEW



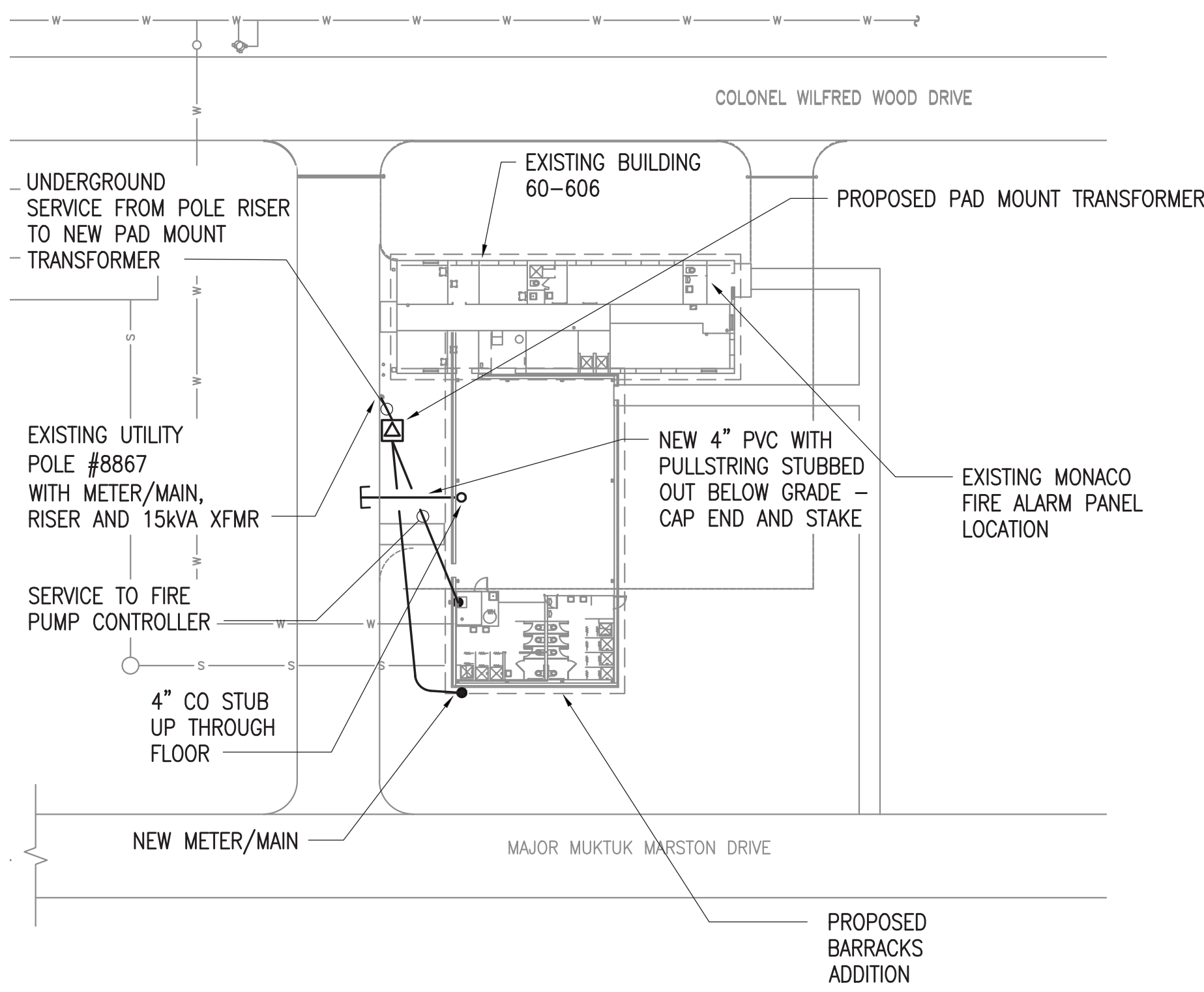
BEFORE YOU DIG
CALL FOR FREE
UNDERGROUND
LOCATION

Locate Call Center of Alaska
Anchorage Area.....278-3121
Statewide.....800-478-3121
who will notify subscribed utilities only.
Other utilities need to be contacted
individually.

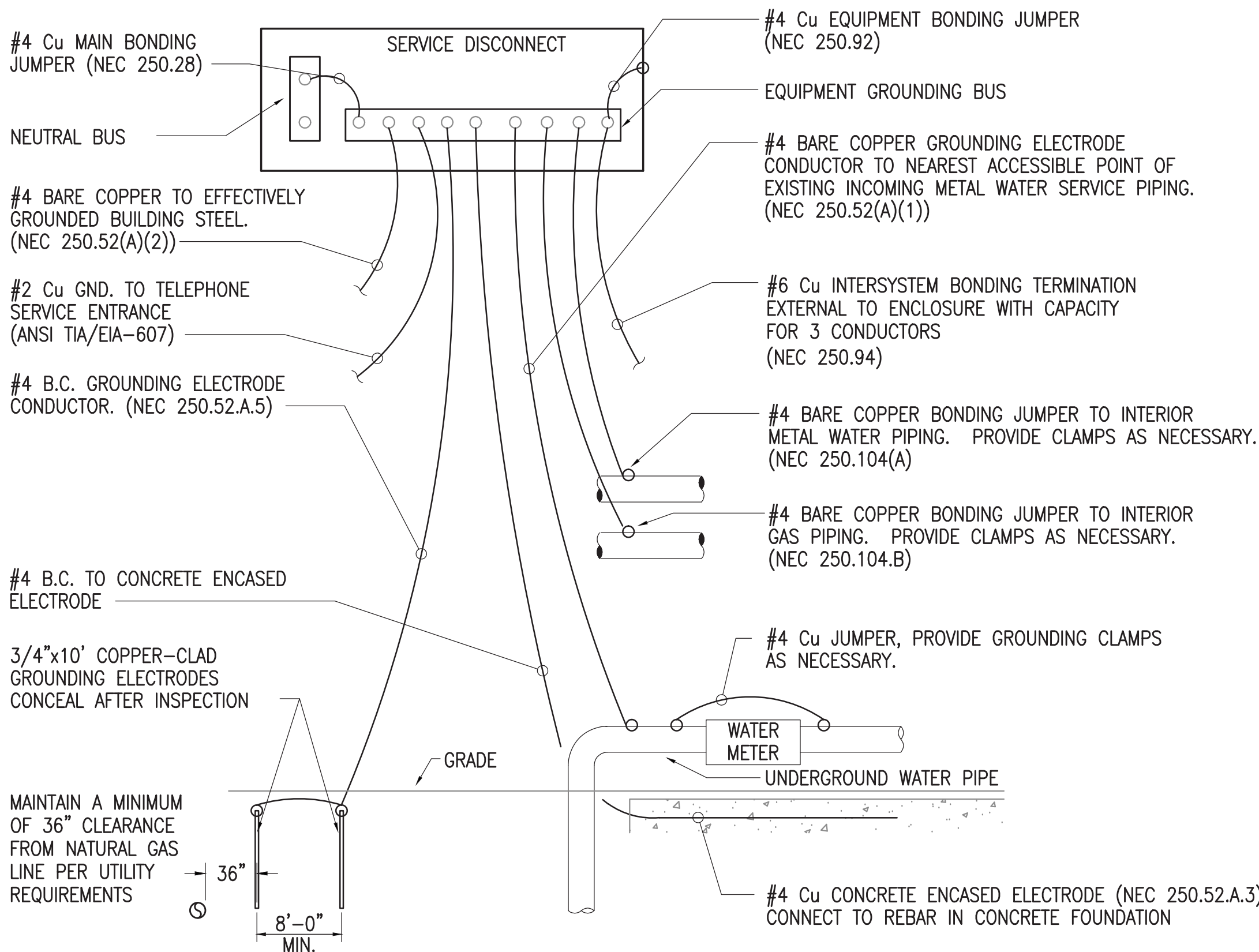
TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS		BALLAST		INPUT WATTS
				TYPE	HEIGHT	NO.	WATTS	NO.	TYPE	
A	MULTI PURPOSE AREA	COLUMBIA # WCW4-332-3EPU	16" X 48" FLUORESCENT WRAPAROUND, WIDE DISTRIBUTION, PRISMATIC DIFFUSER, UNIVERSAL VOLTAGE HIGH POWER FACTOR ELECTRONIC BALLAST, WHITE ENAMEL FINISH.	SURFACE	CEILING	3	32T8 3000 K	1	(1) 3 LAMP ELECTRONIC	109
B	LOCKER/ SHOWER/ TOILET	COLUMBIA # LUN4-232-EPU	1X4 SURFACE FLUORESCENT, CORROSION RESISTANT FIBERGLASS HOUSING, GASKETED LENS, UNIVERSAL VOLTAGE ELECTRONIC BALLAST.	SURFACE	CEILING OR WALL 8'-0"	2	32T8 3000 K	1	2 LAMP ELECTRONIC	68
C	EXTERIOR	LUMARK # XTOR3A-PC1	LED WALL PACK, DIE-CAST HOUSING, HINGED/GASKETED DOOR, FULL CUTOFF OPTICAL ASSEMBLY, 2649 LUMEN OUTPUT, INTEGRAL PHOTOCELL, DARK BRONZE FINISH.	SURFACE	WALL SEE PLAN	N/A	30 LED	1	SOLID STATE ELECTRONIC DRIVER	35
ER	EXIT DISCHARGE AREAS	COOPER # UEL1SD	SELF-CONTAINED EXTERIOR EMERGENCY LIGHTING UNIT, DIE-CAST GASKETED HOUSING, SILVER FINISH, SELF-DIAGNOSTICS, NI-CAD BATTERY.	SURFACE	WALL 9'-0" AFG	2	12 MR16	N/A	NICKEL CADMIUM BATTERY	10.8
X	EXITS	COOPER # LPX7-BK-SD	LED EXIT SIGN, POLYCARBONATE HOUSING, UNIVERSAL VOLTAGE, MOUNTING AND DIRECTIONAL ARROWS, SELF- DIAGNOSTIC ELECTRONICS.	SURFACE	WALL 7'-6" AFF	N/A	N/A	1	SOLID STATE ELECTRONIC DRIVER	1.0



1 POWER DISTRIBUTION ONE-LINE DIAGRAM
NO SCALE



3 ELECTRICAL SITE PLAN
SCALE: 1" = 30'



2 SERVICE GROUNDING DETAIL
NO SCALE

LEGEND

	EMERGENCY EXIT LIGHT - SURFACE MTD WALL
	EMERGENCY LIGHT
	REMOTE EMERGENCY FIXTURE - WALL MTD
	FLUORESCENT - WALL MTD
	FLUORESCENT FIXTURE - SURFACE OR PENDANT MTD
	WALL MOUNTED EXTERIOR FIXTURE
	FIXTURE TAG (LETTER INDICATES TYPE)
	MOTOR (SIZED AS NOTED)
	DISCONNECT SWITCH
	COMBINATION DISCONNECT/MAGNETIC MOTOR STARTER
	FRACTIONAL HORSEPOWER MOTOR STARTER
	SINGLE POLE SWITCH
	3-WAY SWITCH
	CONDUIT, CONCEALED
	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)
	PANEL
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	JUNCTION BOX - POWER
	JUNCTION BOX - TELECOMMUNICATIONS
	ABOVE FINISHED FLOOR
	ABOVE FINISHED GRADE
	ALUMINUM
	BARE COPPER
	CONDUIT
	CONDUIT ONLY
	COPPER
	EACH
	DENOTES EMERGENCY POWER
	FIRE ALARM CONTROL PANEL
	GROUND
	INTERMEDIATE METAL CONDUIT
	MINIMUM CIRCUIT AMPACITY
	MAIN DISTRIBUTION PANEL
	MOUNTED
	TYPICAL
	WEATHERPROOF

RISA Engineering, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
101 E. Swanson Avenue, Suite 200
Anchorage, AK 99501 (907) 574-0021



CAMP CARROLL, JBER

BUILDING #60606
ADDITION

ELECTRICAL LEGEND,
SCHEDULES, SITE PLAN
AND DETAILS

JOB NO. L3238

E0.1

DATE: 10 MAR 2014

100% DESIGN REVIEW

SECTION 16010
SCOPE OF WORK – FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.

STANDARDS, CODES AND REGULATIONS – COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE CODE INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES.

DRAWINGS – THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE ARCHITECT. CODES, ORDINANCES, REGULATIONS, MANUFACTURER’S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.

RECORD DRAWINGS – MARK UP A CLEAN SET OF DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK WHICH WILL BECOME PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN.

WORKMANSHIP – INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER’S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS AND IN ACCORDANCE WITH NECA STANDARDS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE.

OPERATION AND MAINTENANCE MANUALS – PROVIDE OPERATION AND MAINTENANCE MANUALS FOR TRAINING OF THE OWNER’S PERSONNEL. DESCRIBE THE PROCEDURES NECESSARY TO OPERATE THE SYSTEM INCLUDING START–UP, OPERATION, EMERGENCY OPERATION AND SHUTDOWN. PROVIDE INSTRUCTIONS AND A SCHEDULE OF PREVENTIVE MAINTENANCE IN TABULAR FORM FOR ALL ROUTINE CLEANING, INSPECTION AND LUBRICATION WITH RECOMMENDED LUBRICANTS. PROVIDE INSTRUCTIONS FOR MINOR REPAIR OR ADJUSTMENTS REQUIRED FOR PREVENTIVE MAINTENANCE ROUTINES. PROVIDE MANUFACTURER’S DESCRIPTIVE LITERATURE INCLUDING APPROVED SHOP DRAWINGS COVERING DEVICES USED IN ANY CONTRACTOR–PROVIDED EQUIPMENT OR SYSTEMS WITH ILLUSTRATION, EXPLODED VIEWS, ETC.

WARRANTY – THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.

PERMITS – SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES AND ALL LOCAL UTILITY COMPANIES. COSTS OF LINE EXTENSIONS TO THE METER ARE TO BE PAID BY THE OWNER.

REFERENCE SYMBOLS – THE ELECTRICAL “LEGEND” ON THE DRAWINGS IS A STANDARDIZED VERSION, AND ALL SYMBOLS SHOWN MAY NOT BE USED. USE THE “LEGEND” AS A REFERENCE FOR THE SYMBOLS USED ON THE DRAWINGS.

IDENTIFICATION – PROVIDE PRINTED ADHESIVE TAPE LABELS WITH BLACK LETTERS ON A CLEAR BACKGROUND TO IDENTIFY ALL ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT, LOADS SERVED AND AS NOTED ON THE DRAWINGS. LETTER HEIGHTS SHALL BE 1/8 INCH FOR INDIVIDUAL SWITCHES, MOTOR STARTERS AND LOADS SERVED AND 1/4 INCH ON PANELBOARDS.

CONDUITS: MARK ALL CONDUITS ENTERING OR LEAVING PANELBOARDS WITH INDELIBLE BLACK MARKER WITH THE CIRCUIT NUMBERS OF THE CIRCUITS CONTAINED INSIDE.

JUNCTION BOXES: MARK ALL CIRCUIT NUMBERS OF WIRING ON ALL JUNCTION BOXES WITH SHEET STEEL COVERS. MARK WITH INDELIBLE BLACK MARKER. ON EXPOSED JUNCTION BOXES IN PUBLIC AREAS, MARK ON INSIDE OF COVER. MARK ALL FIRE ALARM SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS WITH “FA.” MARK WITH INDELIBLE RED MARKER. MARK ALL OTHER SPECIAL SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS.

SECTION 16111
CONDUIT – ALL WIRING SHALL BE INSTALLED IN METALLIC RACEWAY. RACEWAY SHALL BE INSTALLED CONCEALED EXCEPT AT SURFACE MOUNTED CABINETS, MOTORS AND EQUIPMENT CONNECTIONS. INSTALL AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS. UTILIZE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT FOR SERVICE ENTRANCE, FEEDERS, IN WET LOCATIONS, IN DIRECT CONTACT WITH CONCRETE OR BELOW SLAB ON GRADE. ELECTRICAL METALLIC TUBING MAY BE USED IN ALL CONCEALED, DRY, INTERIOR LOCATIONS. UTILIZE SHORT EXTENSIONS (36 INCHES MAXIMUM) OF FLEXIBLE CONDUIT FOR CONNECTION OF ALL MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION. UTILIZE LIQUIDTIGHT FLEXIBLE CONDUIT FOR MOTOR AND EQUIPMENT CONNECTIONS IN WET LOCATIONS. COMPLETELY AND THOROUGHLY SWAB RACEWAY SYSTEM BEFORE INSTALLING CONDUCTORS. PROVIDE NYLON “JET–LINE” OR APPROVED EQUAL PULL STRING IN ALL EMPTY CONDUITS, EXCEPT SLEEVES AND NIPPLES. PROVIDE LABELS ON BOTH ENDS OF ALL PULL STRINGS.

SECTION 16120
CONDUCTORS – ALL CONDUCTORS #6 AWG AND SMALLER SHALL BE COPPER WITH TYPE XHHW, THWN, THW OR THHN INSULATION. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE #12 AWG. MINIMUM CONTROL CIRCUIT CONDUCTOR SIZE SHALL BE #18 AWG. WIRING IN LIGHTING FIXTURE CHANNELS SHALL BE COPPER WITH TYPE XHHW OR OTHER INSULATION RATED 90 DEGREES C OR HIGHER, 600 VOLT. ALL CONDUCTORS ON EXTERIOR OF BUILDING SHALL BE XHHW. PULL ALL CONDUCTORS INTO THE RACEWAY AT THE SAME TIME. USE UL LISTED WIRE PULLING LUBRICANT FOR PULLING #4 AWG AND LARGER WIRES. COLOR CODE CONDUCTORS AS FOLLOWS: 120/208 VOLT SYSTEMS: BLACK, RED, BLUE AND WHITE. USE PROPERLY SIZED INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER. TERMINATE #6 AWG AND LARGER CONDUCTORS WITH CRIMP OR COMPRESSION TYPE CONNECTORS INSTALLED WITH TOOL RECOMMENDED BY CONNECTION MANUFACTURER AND INSULATE WITH PROPERLY SIZED 600 VOLT RATED HEAT SHRINK TUBING.

SECTION 16130
OUTLET BOXES – PROVIDE GALVANIZED OR CADMIUM PLATED, ONE PIECE PRESSED OR WELDED STEEL OUTLET BOXES 4 INCH SQUARE OR OCTAGONAL, 1 1/2 INCHES DEEP MINIMUM SIZE FOR USE IN INTERIOR AREAS. PROVIDE CAST ALUMINUM OR FERALLOY TYPE BOXES WITH GASKETED COVER, THREADED HUBS AND NEMA 3R

RATING FOR USE IN EXTERIOR OR WET LOCATIONS. PROVIDE FIXTURE OUTLETS WITH 1/2 INCH MALE FIXTURE STUDS AS REQUIRED. PROVIDE OUTLET BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE. DO NOT INSTALL BOXES BACK–TO–BACK IN WALLS. PROVIDE A MINIMUM 6 INCH SEPARATION FOR MINIMUM SOUND TRANSMISSION. USE MULTIPLE–GANG BOXES WHERE MORE THAN ONE DEVICE ARE MOUNTED TOGETHER; DO NOT USE SECTIONAL BOXES. SUPPORT BOXES INDEPENDENTLY OF CONDUIT. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED ABOVE COUNTERS, BENCHES AND BACKSPLASHES.

SECTION 16141
RECEPTACLES – PROVIDE NEMA 5–20R DUPLEX GROUNDING TYPE RECEPTACLES WITH WHITE FINISH, MEETING ALL REQUIREMENTS OF FEDERAL SPECIFICATION WC–596F, UL NO. 498 APPROVED, SELF–GROUNDING, CERTIFIED TO COMPLY WITH NEMA WD–1–4.02 THROUGH 4.11, 1979 TESTS. SCREW TERMINAL OR SCREW CLAMP TYPE ONLY. SPRING CLAMPED TYPE TERMINATIONS ARE NOT ACCEPTABLE. PROVIDE DUPLEX CONVENIENCE RECEPTACLES WITH CLASS “A” INTEGRAL GROUND FAULT CURRENT INTERRUPTER WITH INTEGRAL LOCKOUT FUNCTION THAT MEETS UL 943 (2003) REQUIREMENTS. PROVIDE SPECIFIC–USE RECEPTACLES WHERE INDICATED ON THE DRAWINGS. UNLESS OTHERWISE NOTED ON THE DRAWINGS, INSTALL RECEPTACLES 18 INCHES ABOVE FINISH FLOOR, 4 INCHES ABOVE COUNTERS AND BACKSPLASHES WITH GROUNDING POLE ON BOTTOM. UNLESS OTHERWISE NOTED DIMENSIONS ARE TO CENTERLINE OF OUTLET.

SWITCHES – PROVIDE NEMA WD–1 20 AMPERE, 120/277 VOLT AC GENERAL–USE SNAP SWITCH, MEETING ALL REQUIREMENTS OF FEDERAL SPECIFICATION WS–896, UL NO. 20 LISTED, SELF–GROUNDING BINDING SCREW TYPE TERMINALS WITH WHITE TOGGLE, SINGLE POLE, DOUBLE POLE, THREE WAY OR FOUR WAY AS INDICATED ON THE DRAWINGS. INSTALL SWITCHES 48 INCHES ABOVE FINISHED FLOOR, OFF POSITION DOWN.

DEVICE PLATES – PROVIDE UL LISTED ONE PIECE ROUNDED EDGE “STREAMLINE” DESIGN FLUSH DEVICE PLATES OF SATIN FINISH 430 OR 302 STAINLESS STEEL WITH METAL, COUNTER SUNK SCREWS TO MATCH DEVICE PLATE. PROVIDE GALVANIZED DEVICE PLATES WHERE EXPOSED WIRING IS PERMITTED. PROVIDE UL LISTED, CAST ALUMINUM, HINGED OUTLET COVER/ENCLOSURE WITH GASKET BETWEEN THE ENCLOSURE AND THE MOUNTING SURFACE, SUITABLE FOR WET LOCATION WHILE IN USE FOR ALL OUTLETS ON THE EXTERIOR OF THE BUILDING. PROVIDE 1/2 INCH RAISED, SQUARE, GALVANIZED OR CADMIUM PLATED, PRESSED STEEL COVER PLATE SUPPORTING DEVICES INDEPENDENT OF THE OUTLET BOX FOR ALL EXPOSED WORK.

SECTION 16420
SERVICE ENTRANCE – COORDINATE WITH UTILITY COMPANY FOR PERMANENT ELECTRIC SERVICE. INSTALL SERVICE ENTRANCE IN ACCORDANCE WITH UTILITY COMPANY’S RULES AND REGULATIONS. COORDINATE WITH LOCAL UTILITY COMPANY FOR METERING REQUIREMENTS. PROVIDE GROUNDING AND BONDING AT SERVICE ENTRANCE AS SHOWN ON THE DRAWINGS.

SECTION 16440
DISCONNECT SWITCHES – PROVIDE UL LISTED 250V, HEAVY DUTY NON–FUSIBLE QUICK–MAKE, QUICK BREAK, LOAD INTERRUPTER, ENCLOSED KNIFE SWITCHES WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION, HANDLE LOCKABLE IN OFF POSITION. ENCLOSURES SHALL BE NEMA 1 OR 3R AS INDICATED ON THE DRAWINGS.

EQUIPMENT CONNECTIONS – PROVIDE WIRING AND CONNECTION OF EQUIPMENT REQUIRING ELECTRICAL POWER BUT SPECIFIED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. EQUIPMENT SHALL INCLUDE BUT IS NOT LIMITED TO MOTORS, PUMPS, HVAC EQUIPMENT, ETC. REVIEW EQUIPMENT SUBMITTALS PRIOR TO INSTALLATION AND ELECTRICAL ROUGH–IN. VERIFY LOCATION, SIZE, TYPE OF CONNECTIONS, AND THAT EQUIPMENT IS READY FOR ELECTRICAL CONNECTION. MAKE WIRING CONNECTIONS IN CONTROL PANEL OR IN WIRING COMPARTMENT OF PREWIRED EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS. PROVIDE INTERCONNECTING WIRING AND DISCONNECTS WHERE REQUIRED.

ARC–FLASH SIGNAGE – ALL MOTOR STARTERS, PANELBOARDS AND DISCONNECTS SHALL HAVE SIGNAGE FOR ARC HAZARD INSTALLED. THE MARKING SHALL BE LOCATED TO BE CLEARLY VISIBLE TO QUALIFIED PERSONNEL BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT. AT A MINIMUM THE 3–LINE SIGNAGE SHALL STATE THE FOLLOWING: WARNING – ARC FLASH AND SHOCK HAZARD – APPROPRIATE PPE REQUIRED

SECTION 16470
PANELBOARDS – PROVIDE DEAD–FRONT CIRCUIT BREAKER PANELBOARDS WITH BUS SIZE, SHORT CIRCUIT RATING, NUMBER AND SIZE OF BRANCH CIRCUITS AS SHOWN ON THE DRAWINGS. BUSSING SHALL BE COPPER. CABINETS SHALL BE 6 INCHES DEEP BY 20 INCHES WIDE MINIMUM. PROVIDE WITH SURFACE FRONTS, WITH CONCEALED TRIM CLAMPS, CONCEALED HINGE AND FLUSHLOCK WITH DOOR, WITH PULL RING AND LATCH. FINISH IN MANUFACTURER’S STANDARD GRAY ENAMEL. MOLDED CASE CIRCUIT BREAKERS SHALL BE BOLT–ON THERMAL MAGNETIC TRIP TYPE WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE CIRCUIT BREAKERS UL LISTED AS TYPE SWD FOR LIGHTING CIRCUITS SWITCHED AT THE PANELBOARD AND AS TYPE HCAR FOR AIR HANDLING/CONDITIONING CIRCUITS. PROVIDE UL CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS FOR GFCI CIRCUITS AS INDICATED ON THE DRAWINGS. INSTALL PANELBOARDS PLUMB WITH TOP OF CABINET 6’–6” ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROVIDE TYPED OR NEATLY HANDWRITTEN CIRCUIT DIRECTORIES FOR EACH PANELBOARD. MEASURE STEADY STATE LOAD CURRENTS OF EACH PANELBOARD FEEDER AND REARRANGE BRANCH CIRCUITS AS REQUIRED TO MAINTAIN A MAXIMUM 20 PERCENT DIFFERENCE BETWEEN PHASES. REVISE CIRCUIT DIRECTORY TO REFLECT CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS.

SECTION 16480
MOTOR STARTERS – PROVIDE MAGNETIC MOTOR STARTERS: NEMA ICS 2; AC GENERAL–PURPOSE CLASS A MAGNETIC CONTROLLER FOR INDUCTION MOTORS RATED IN HORSEPOWER. FULL VOLTAGE STARTING: NON–REVERSING TYPE. OVERLOAD RELAY SHALL BE THE MELTING ALLOY TYPE. COMBINE MOTOR STARTERS WITH MOTOR CIRCUIT PROTECTOR DISCONNECT IN COMMON ENCLOSURE. PROVIDE TWO FIELD CONVERTIBLE CONTACTS IN ADDITION TO SEAL–IN CONTACT. PROVIDE HAND/OFF/AUTO SELECTOR SWITCH AND A RED “RUN” LED INDICATOR LIGHT IN FRONT COVER. PROVIDE CONTROL POWER TRANSFORMERS AS REQUIRED. INSTALL MOTOR CONTROL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS. SELECT AND INSTALL HEATER ELEMENTS IN MOTOR STARTERS TO MATCH INSTALLED MOTOR CHARACTERISTICS. MOTOR DATA: PROVIDE NEATLY TYPED LABEL INSIDE EACH MOTOR STARTER ENCLOSURE DOOR IDENTIFYING MOTOR SERVED, NAMEPLATE HORSEPOWER, FULL LOAD AMPERES, CODE LETTER, SERVICE FACTOR, AND VOLTAGE/PHASE RATING.

FRACTIONAL HORSEPOWER MANUAL STARTER – NEMA ICS 2; AC GENERAL–PURPOSE CLASS A MANUALLY OPERATED, NUMBER OF POLES AS REQUIRED BY THE LOAD SERVED, FULL–VOLTAGE CONTROLLER FOR FRACTIONAL HORSEPOWER INDUCTION MOTORS, WITH THERMAL OVERLOAD UNIT, RED LED PILOT LIGHT, AND TOGGLE OPERATOR.

SECTION 16510
LIGHTING EQUIPMENT – PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE “LUMINAIRE SCHEDULE”. PROVIDE LIGHTING EQUIPMENT COMPLETE, WIRED, ASSEMBLED, WITH PROPER FLANGES, MOUNTING SUPPORTS, HARDWARE, ETC. PROVIDE ENERGY SAVING LAMPS AND ELECTRONIC BALLASTS WITH A MAXIMUM THD OF 20% AND A MINIMUM BALLAST FACTOR OF .88 FOR ALL FLUORESCENT FIXTURES. UNLESS OTHERWISE NOTED ON THE DRAWINGS, FLUORESCENT LAMPS SHALL BE TCLP COMPLIANT, 3500 DEGREE K, TRI–PHOSPHOR TYPE WITH A MINIMUM CRI OF 82.

PENETRATIONS OF FIRE BARRIERS – ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE SEALED IN ACCORDANCE WITH NEC ARTICLE 300–21 AND THE FOLLOWING:

ALL HOLES OR VOIDS CREATED TO EXTEND ELECTRICAL SYSTEMS THROUGH FIRE RATED FLOORS, WALLS OR CEILING SHALL BE SEALED WITH AN ASBESTOS–FREE INTUMESCENT FIRE STOPPING MATERIAL CAPABLE OF EXPANDING 8 TO 10 TIMES WHEN EXPOSED TO TEMPERATURES 250 DEGREES F OR HIGHER.

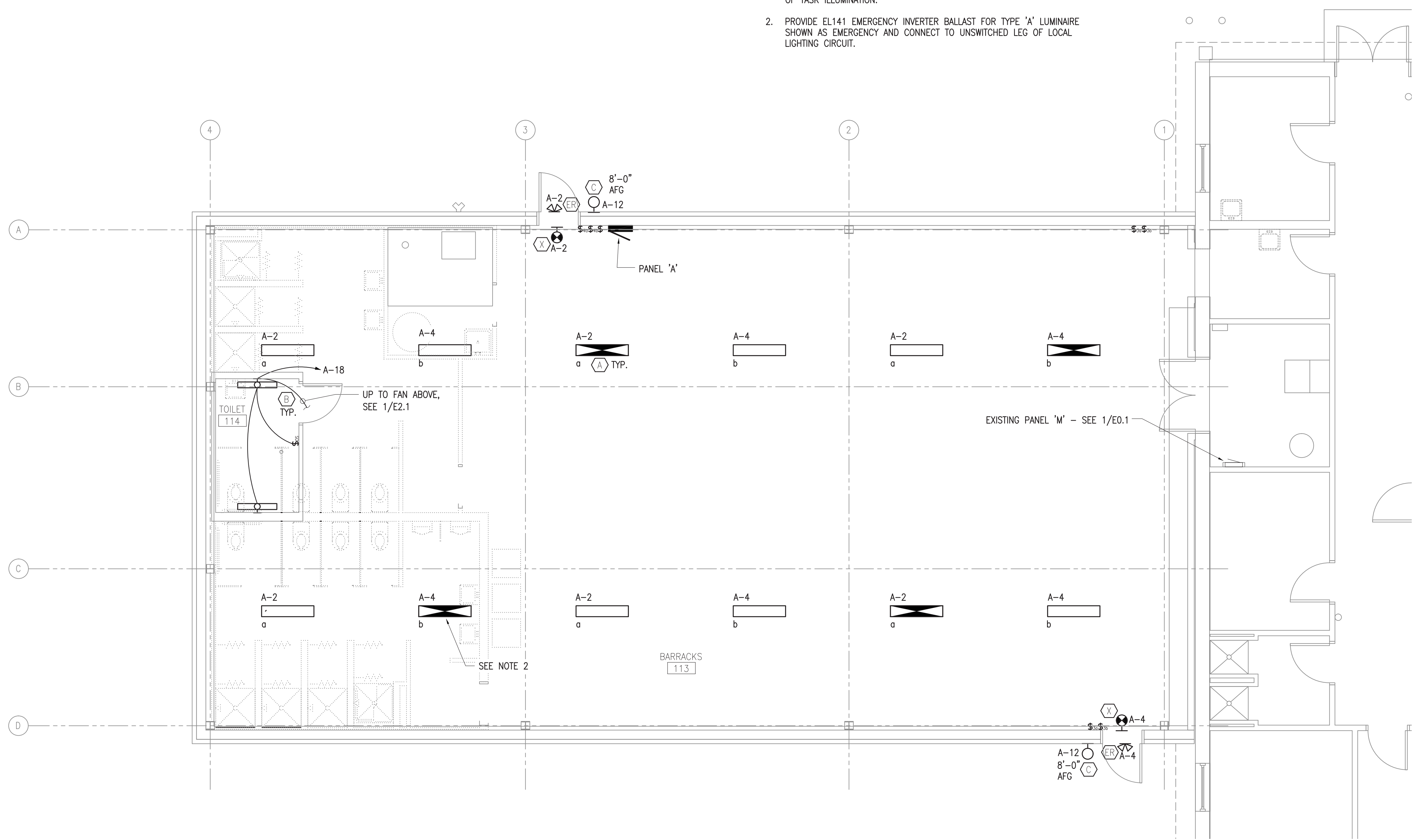
MATERIALS SHALL BE SUITABLE FOR THE FIRE STOPPING OF PENETRATIONS MADE BY STEEL, GLASS, PLASTIC AND SHALL BE CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM E814, UL 1479 AND THE UL FIRE RESISTANCE DIRECTORY REQUIREMENTS FOR THROUGH–PENETRATION FIRESTOP DEVICES (XHCR).

THE RATING OF THE FIRE STOPS SHALL BE THE SAME AS THE TIME–RATED FLOOR, WALL OR CEILING ASSEMBLY.

INSTALL FIRE STOPPING MATERIALS IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS.

UNLESS PROTECTED FROM POSSIBLE LOADING OR TRAFFIC, INSTALL FIRE STOPPING MATERIALS IN FLOORS HAVING VOID OPENINGS OF FOUR (4) INCHES OR MORE TO SUPPORT THE SAME FLOOR LOAD REQUIREMENTS AS THE SURROUNDING FLOOR.

PANEL 'A'																				
MFR/MODEL: SQUARE D' TYPE NQ00										VOLTS: 120/208V,3PH,4W					ENCLOSURE: NEMA 1				225 A	
										VOLT-AMPS					MTG: SURFACE					
NOTE	CIRC	POLE	AMPS	SERVICE		TYPE	A			B		C		TYPE	SERVICE		AMPS	POLE	CIRC	NOTE
	1	1	20	RECPS SW ADDN	RECP		720	665						LTG	BARRACKS LTS		20	1	2	
	3	1	20	RECPS W ADDN	RECP				720						SPARE		20	1	4	
	5	1	20	RECPS COMM SW ADDN	RECP						360	665		LTG	BARRACKS LTS		20	1	6	
	7	1	20	RECP N ADDN	RECP		900								SPARE		20	1	8	
	9	1	20	RECP NW ADDN	RECP				720						SPARE		20	1	10	
	11	1	20	EXTERIOR RECPS S & E	RECP						360	70		LTG	EXTERIOR LTS		20	1	12	c
	13	1	20	EXTERIOR RECPS N & W	RECP		360								SPARE		20	1	14	
	15	1	25	EWI-1	HEAT				2400						SPARE		20	1	16	
	17	1	20	RECPS SE ADDN	RECP						720	676		LTG	RESTROOM LTS, EF-1		20	1	18	
	19	1	20	RECP S ADDN & RESTRM	RECP		720								SPACE		-	1	20	
	21	1	20	SPARE											SPACE		-	1	22	
	23	1	20	SPARE											SPACE		-	1	24	
	25	1	20	SPARE											SPACE		-	1	26	
	27	1	20	SPARE											SPACE		-	1	28	
	29	1	20	SPARE											SPACE		-	1	30	
d	31	2	70	EXISTING PANEL 'M'	FEDR										SPACE		-	1	32	
d	33	2	70	^^	FEDR										SPACE		-	1	34	
b	35	3	60	AHU-1	MOTR						4683				SPACE		-	1	36	
b	37	3	60	^^^	MOTR		4683	444						MOTR	JOCKEY PUMP		15	3	38	
b	39	3	60	^^^	MOTR				4683	444				MOTR	^^^		15	3	40	
a	41	1	20	FUTURE FA BOOSTER PNL	MISC						600	444		MOTR	^^^		15	3	42	
TOTAL V-A							8492		8967		8578		26,037 VA							
TOTAL AMPS							71		75		71		72 A							
A.I.C. RATING: 10,000																				
CONNECTED LOAD IN KVA (PANEL 'A') CONNECTED LOAD IN KVA (BRANCH PANELS) TOTAL CONNECTED LOAD IN KVA: DEMAND LOAD IN KVA:						LTG	RECP	MOTR	LG.MT	MISC	KIT	HEAT	SPEC	TOTAL		AMPS				
						2.08	5.58	15.38	3.51	0.60	0.00	2.40	0.00	26.0 KVA		72 A				
														0.0 KVA		0 A				
						2.08	5.58	15.38	3.51	0.60	0.00	2.40	0.00	26.0 KVA		72 A				
						2.60	5.58	15.38	3.51	0.60	0.00	2.40	0.00	30.1 KVA		83 A				
PANEL NOTES: a PROVIDE RED HANDLED BREAKER AND LOCK-ON DEVICE FOR CIRCUIT INDICATED b PROVIDE HACR RATED CIRCUIT BREAKER FOR LOAD INDICATED c PROVIDE SWD RATED CIRCUIT BREAKER FOR LOAD INDICATED d UTILITY DEMAND HISTORY NOT AVAILABLE FOR EXISTING SERVICE e													PANEL OPTIONS: MAIN LUGS ONLY							



NOTES:

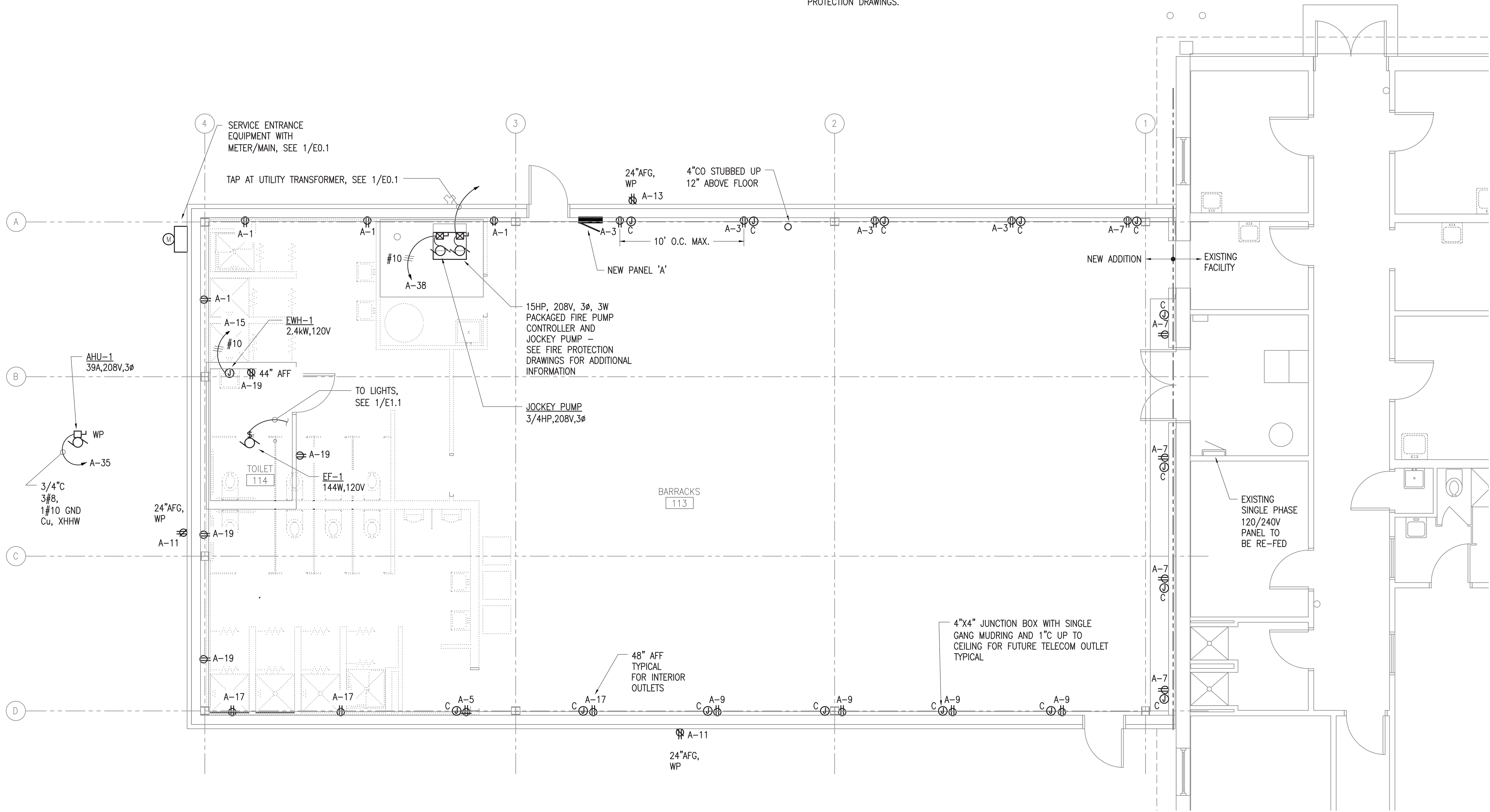
1. INTERIOR LIGHTING CONFIGURATION INDICATED ON PLAN HAS BEEN CALCULATED TO PROVIDE 22FC AVERAGE HORIZONTAL ILLUMINATION LEVEL, MINIMUM 11FC WITH A MAX/MIN UNIFORMITY LEVEL OF 3:1. UFC 3-530-01 TARGET OF 5FC FOR HOUSING (BARRACKS) IS ATTAINED WITHOUT THE AID OF TASK ILLUMINATION.
2. PROVIDE EL141 EMERGENCY INVERTER BALLAST FOR TYPE 'A' LUMINAIRE SHOWN AS EMERGENCY AND CONNECT TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.

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

100% DESIGN REVIEW

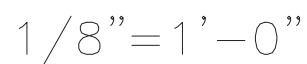
NOTES:












- 1. SINGLE PHASE OVERHEAD ELECTRICAL SERVICE TO EXISTING STRUCTURE IS TO BE RETIRED.
- 2. EXISTING MONACO FIRE ALARM PANEL TO BE EXPANDED UNDER THIS CONTRACT. SEE FIRE PROTECTION DRAWINGS.














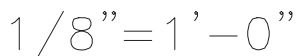
1 POWER PLAN
SCALE: 1/4" = 1'-0"

100% DESIGN REVIEW



ITEM	SYM	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER	MOUNTING
1		1	M2	FIRE ALARM PANEL	MONACO	EXISTING- ADDING EXPANSION MOTHERBOARD & ZONE CARD
2		1	—	ANTENNA KIT, LIGHTNING ARRESTOR, MTG	MONACO	EXISTING
3		5	521B	SMOKE DETECTOR W/BASE	EDWARDS	4" square 2-1/2" deep, 4" octagon, 1 gang
4		2	270-SPO	MANUAL PULL STATION	SIEMENS	1 gang box 3-1/2" Deep
5		1	—	DUCT MOUNTED SMOKE DETECTOR	—	BY OTHERS
6		1	—	REMOTE RESET FOR DUCT SMOKE DETECTOR	—	BY OTHERS
7		1	ZR-MC-W	STROBE	SIEMENS	1 gang, 2 gang, 4" square, 4" or 3-1/2" octagon
8		1	ZH-W	HORN	SIEMENS	1 gang, 2 gang, 4" square, 4" or 3-1/2" octagon
9		1	—	SPRINKLER SYSTEM WATERFLOW	BY OTHERS	—
10		1	—	SPRINKLER SYSTEM SUPERVISORY	BY OTHERS	—
11		1	—	SPRINKLER SYSTEM LOW AIR PRESSURE	BY OTHERS	—

ITEM	SYM	QTY	PART NUMBER	DESCRIPTION	MANUFACTURER	MOUNTING
1		1	M2	FIRE ALARM PANEL	MONACO	REPLACE EXISTING WITH NEW LARGER PANEL
2		1	—	ANTENNA KIT, LIGHTNING ARRESTOR, MTC	MONACO	EXISTING
3		5	521B	SMOKE DETECTOR W/BASE	EDWARDS	4" square 2-1/2" deep, 4" octagon, 1 gang
4		2	270—SPO	MANUAL PULL STATION	SIEMENS	1 gang box 3-1/2" Deep
5		1	—	DUCT MOUNTED SMOKE DETECTOR	—	BY OTHERS
6		1	—	REMOTE RESET FOR DUCT SMOKE DETECTOR	—	BY OTHERS
7		1	ZR—MC—W	STROBE	SIEMENS	1 gang, 2 gang, 4" square, 4" or 3-1/2" octagon
8		1	ZH—W	HORN	SIEMENS	1 gang, 2 gang, 4" square, 4" or 3-1/2" octagon
9		1	—	SPRINKLER SYSTEM WATERFLOW	BY OTHERS	—
10		1	—	SPRINKLER SYSTEM SUPERVISORY	BY OTHERS	—
11		1	—	SPRINKLER SYSTEM LOW AIR PRESSURE	BY OTHERS	—



ADDED BLDG 60606 10/31/13
REVISED FLOOR PLANS 2/21/14

Jim Luke

Jim Luke

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6108 MacKay Street ANCHORAGE, AK. 99503 PHONE (907) 336-5500 FAX (907) 336-5010	DRAWN BY JIM LUKE	FILE NAME -
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1. DO NOT INSTALL DETECTOR/SENSOR WITHIN 3'-0" OF AIR SUPPLY DIFFUSER (2007 NFPA 72 5.7.4.1*) or (2010 NFPA 72 17.7.4.1).
2. RECORD ALL CHANGES TO WIRE AND CONDUIT ROUTING, DEVICE PLACEMENT, WIRING TERMINATIONS, ETC., ON REDLINE DRAWING SET. RETURN THE REDLINE DRAWING SET TO GWM FIRE PROTECTION, INC. FOR CONSTRUCTING AS-BUILTS.
3. NOTIFY GWM FIRE PROTECTION, INC. OF ANY QUESTIONS OR CHANGES PRIOR TO INSTALLATION OR FABRICATION.
4. REFERENCE INSTRUCTION MANUAL DURING INSTALLATION OF FIRE CONTROL PANEL.

1. WIRING METHODS IDENTIFIED IN THESE NOTES ARE FOR GUIDANCE, ONLY. ALL WIRING AND INSTALLATION METHODS MUST COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE (NEC), STATE ADOPTED EDITION, NFPA 72, NATIONAL FIRE ALARM CODE, STATE ADOPTED EDITION, THE INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION, AND THE INTERNATIONAL FIRE CODE (IFC), 2009 EDITION.

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 2. AC POWER SHALL NOT OCCUPY THE SAME RACEWAY AS THE FIRE ALARM CIRCUITS. WHERE AC WIRING IS USED TO CONNECT TO THE FIRE ALARM EQUIPMENT, A MINIMUM CLEARANCE OF 0.25 INCHES MUST BE MAINTAINED BETWEEN THE AC WIRING AND THE FIRE ALARM CIRCUITS UNLESS THE WIRING IS COMPLIANT WITH THE EXCEPTIONS NOTED IN NFPA 70, ARTICLE 760.
 3. FIRE ALARM CIRCUIT CONDUCTORS SHALL NOT BE ATTACHED TO THE EXTERIOR OF ANY CONDUIT BY ANY MEANS.
 4. ALL CABLE SHALL BE TYPE FPL, FPLR, OR FPLP EXCEPT AS ALLOWED BY SUBSTITUTION PER NFPA 70. TYPE FPL SHALL BE USED FOR GENERAL-PURPOSE FIRE ALARM CABLE WITH THE EXCEPTION OF RISERS, DUCTS, AND PLENUMS SCALES. TYPE FPLP SHALL BE USED IN DUCT, PLENUM, OR OTHER AREAS USED FOR ENVIRONMENTAL AIR. TYPE FPLR SHALL BE USED FOR ALL VERTICAL RUNS FROM FLOOR TO FLOOR.
 5. FIRE SYSTEM NOTIFICATION APPLIANCE CIRCUITS (NAC) AND INITIATING DEVICE CIRCUITS (IDC) SHALL NOT BE T-TAPPED (PARALLEL BRANCHED) TO INSURE MONITORING OF CIRCUIT INTEGRITY. CLASS B SIGNALING LINE CIRCUITS (SLC) MAY BE T-TAPPED WHERE ALLOWED BY SPECIFICATIONS.
 6. MODIFICATIONS TO DEVICE PLACEMENT, WIRING TERMINATIONS MUST BE APPROVED BY GMM FIRE PROTECTION PRIOR TO INSTALLATION OR FABRICATION.
 7. ALL FIELD WIRING SHALL BE CHECKED FOR GROUNDS AND SHORTS. ALL GROUNDS AND SHORTS MUST BE CORRECTED. IF THE SYSTEM WIRING IS MEGGER TESTED, ALL DEVICES MUST BE DISCONNECTED FROM THE WIRE PRIOR TO MEGGER TESTING, WITH EACH INITIATING(IDC) AND INDICATING(NAC) CIRCUIT INSTALLATION CONDUCTOR PAIR SHORT-CIRCUITED AT THE FAR END, THE RESISTANCE OF EACH CIRCUIT MUST BE MEASURED AND RECORDED.
 8. THE FIRE ALARM PANEL 120 VAC POWER MUST BE A DEDICATED CIRCUIT. THE DEDICATED BRANCH CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKER SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT." THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL.
 9. THE FIRE ALARM SYSTEM PANEL GROUND CONNECTION SHALL BE A CONTINUOUS GROUND WIRE CONNECTED TO THE SOURCE GROUND; CONDUIT GROUND IS NOT ACCEPTABLE.
 10. RACEWAY OR WIRE ROUTING SHOWN ON THE DRAWINGS IS DIAGNOSTIC. RACEWAY AND WIRING MAY BE RE-ROUTED AS DICTATED BY FIELD CONDITIONS AND COORDINATION WITH OTHER TRADES.
 11. ALL WIRING SHALL BE IDENTIFIED WHERE SPLICED OR LANDED ON TERMINALS. MARKERS SHALL BE HEAT SHRINK WIRE MARKERS OR BY OTHER SUITABLE MEANS.
 12. POWER SHALL NOT BE CONNECTED TO THE FIRE CONTROL PANEL UNLESS A REPRESENTATIVE OF GMM FIRE PROTECTION INC. IS PRESENT.
 13. TO AVOID CONFLICTING SPACE REQUIREMENTS WITH THE SYSTEM BATTERIES, DO NOT PENETRATE THE BOTTOM OF THE FIRE CONTROL PANEL.
 14. JUNCTION BOXES COVERS SHALL BE PAINTED RED
- POWERING UP OR DOWN FACP OR BOOSTER PANELS
- | | |
|-----------------|-------------------------|
| Powering Up – | 1. Apply AC Power |
| | 2. Connect Batteries |
| Powering Down – | 1. Disconnect Batteries |
| | 2. Disconnect AC Power |

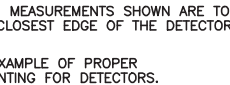
1. SYSTEM SHALL BE INSTALLED PER NFPA 72.
2. ALL WIRING SHALL COMPLY WITH NFPA-70 SECTION 760-A, B.
3. PRIMARY AC WIRING TO BE #12 AWG (DASHED).
4. NOTIFICATION APPLIANCE (NAC) WIRE TO BE #14 MINIMUM AWG STRANDED (DASHED).
5. INITIATING CIRCUIT (IDC) WIRE TO BE #16 MINIMUM AWG STRANDED.
6. ADDRESSABLE INITIATING CIRCUIT (SLC) WIRE TO BE 1-UTP#18 MIN.
7. PANELS TO BE MOUNTED AT 72" TO TOP AFF.
8. DASHED DEVICES ARE EXISTING (NO CHANGE)
9. UTP=UNSHIELDED TWISTED PAIR, SIP=SHIELDED TWISTED PAIR

907.10.2 Audible alarms. Audible alarm notification appliances shall be provided and sound a distinctive sound that is normal to the building occupants. Audible alarm notification appliances shall provide a sound pressure level of 15 decibels (dBA) above the average ambient sound pressure level in the area of the fire alarm pull station having a duration of at least 60 seconds, whichever is greater, in every occupied space within the building. The minimum sound pressure level shall be 75 dBA in sleeping quarters in Groups R and I-1; 90 dBA in mechanical equipment rooms; and 80 dBA in other occupancies. The maximum sound pressure level shall not exceed 120 dBA. Audible alarm notification appliances shall be 120 dBA at the minimum hearing distance from the audible appliance. Where the average ambient sound pressure level is greater than 105 dBA, audible notification appliances shall be provided in accordance with NFPA 72 and audible alarm notification appliances shall not be required.

Exception: Visible alarm notification appliances shall be provided in lieu of audible alarm notification appliances in critical care areas of Group I-2 occupancies.

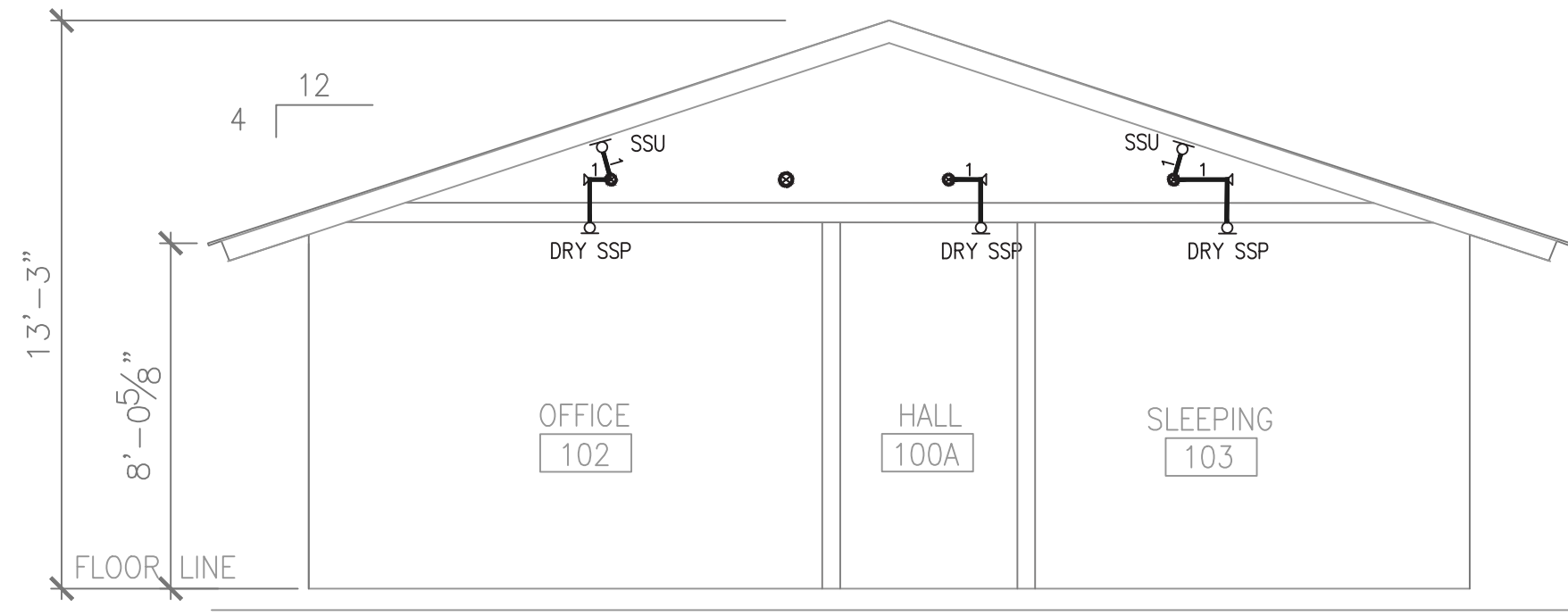
1. ADD HORNS, STROBES OR HORNSTROBE TO MEET CURRENT SOUND LEVEL AND STROBE REQUIREMENTS
2. THE BUILDINGS ARE SPRINKLERED

Drawing Size ANSI D (22x34)

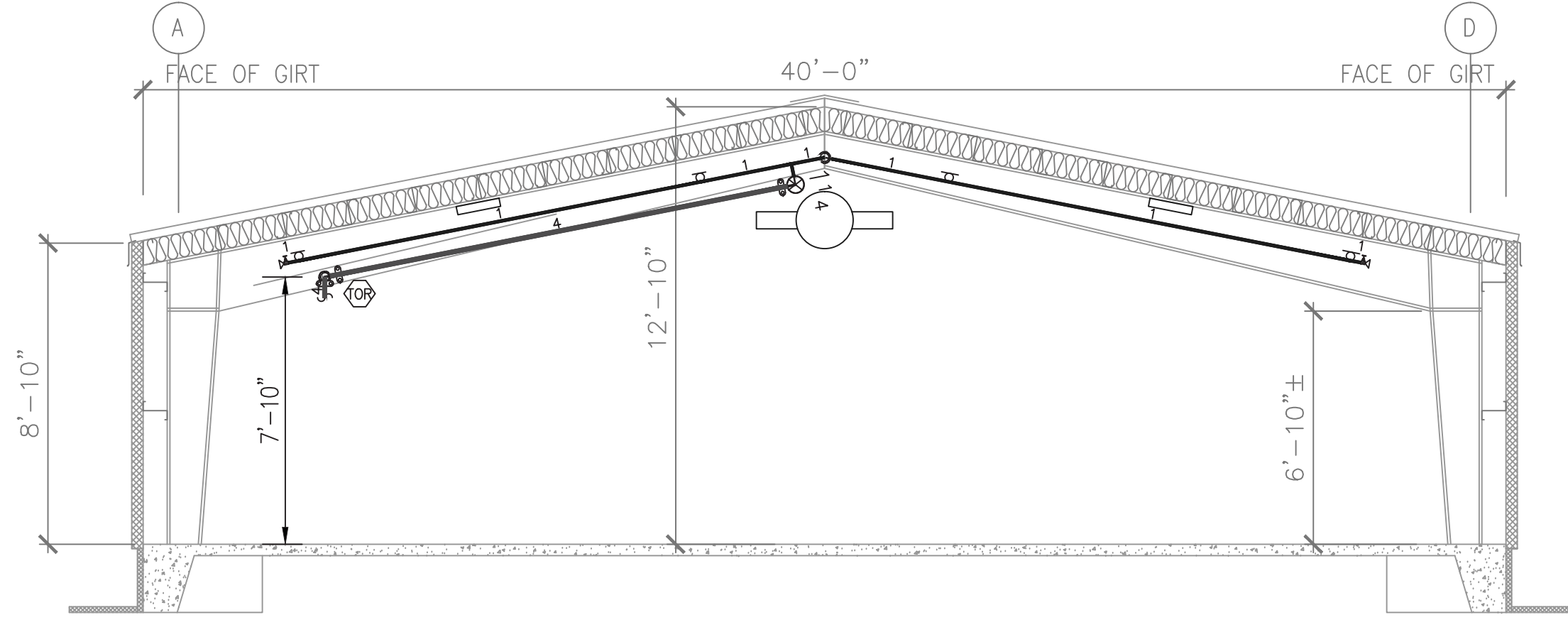


SYSTEM OUTPUTS

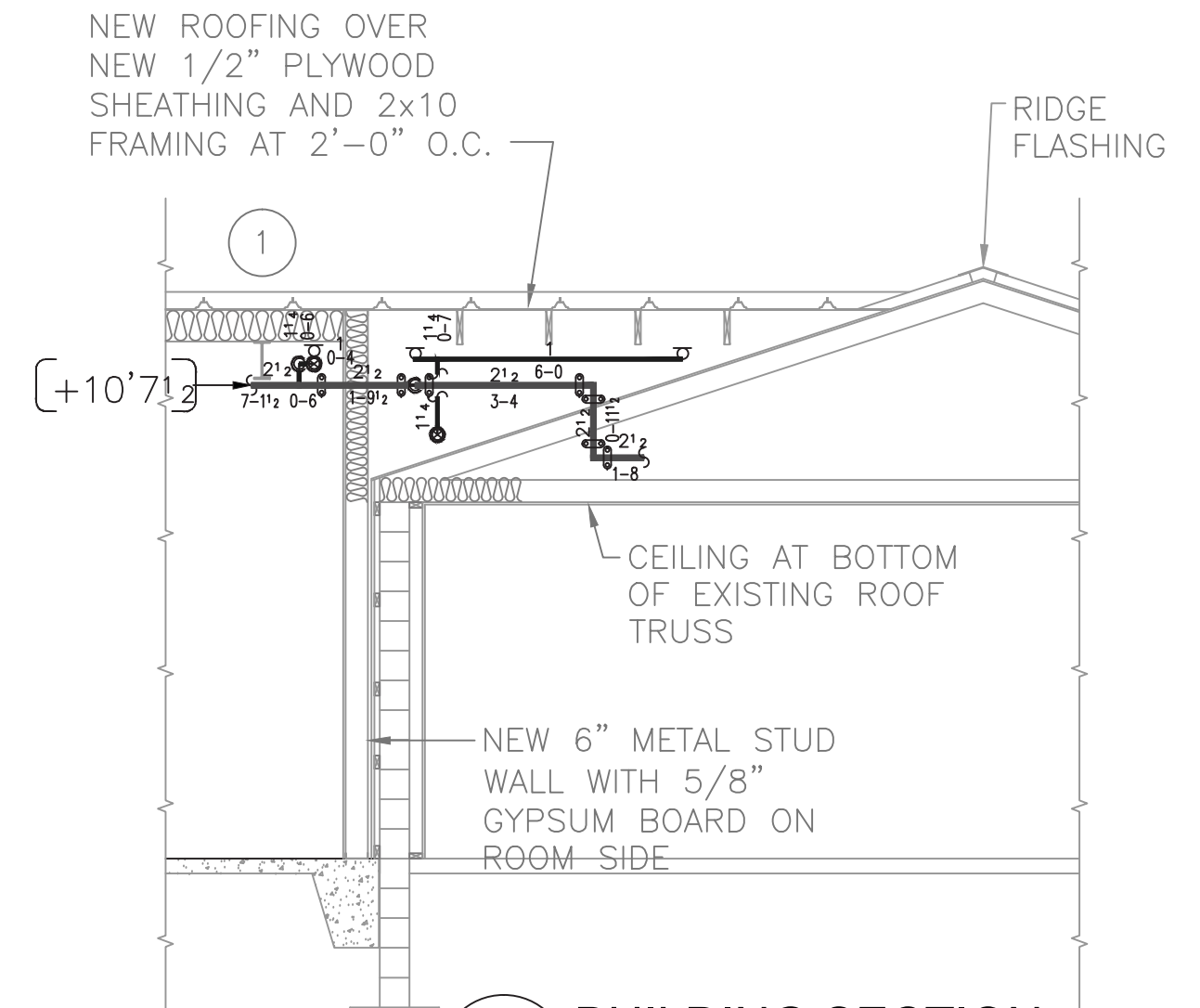
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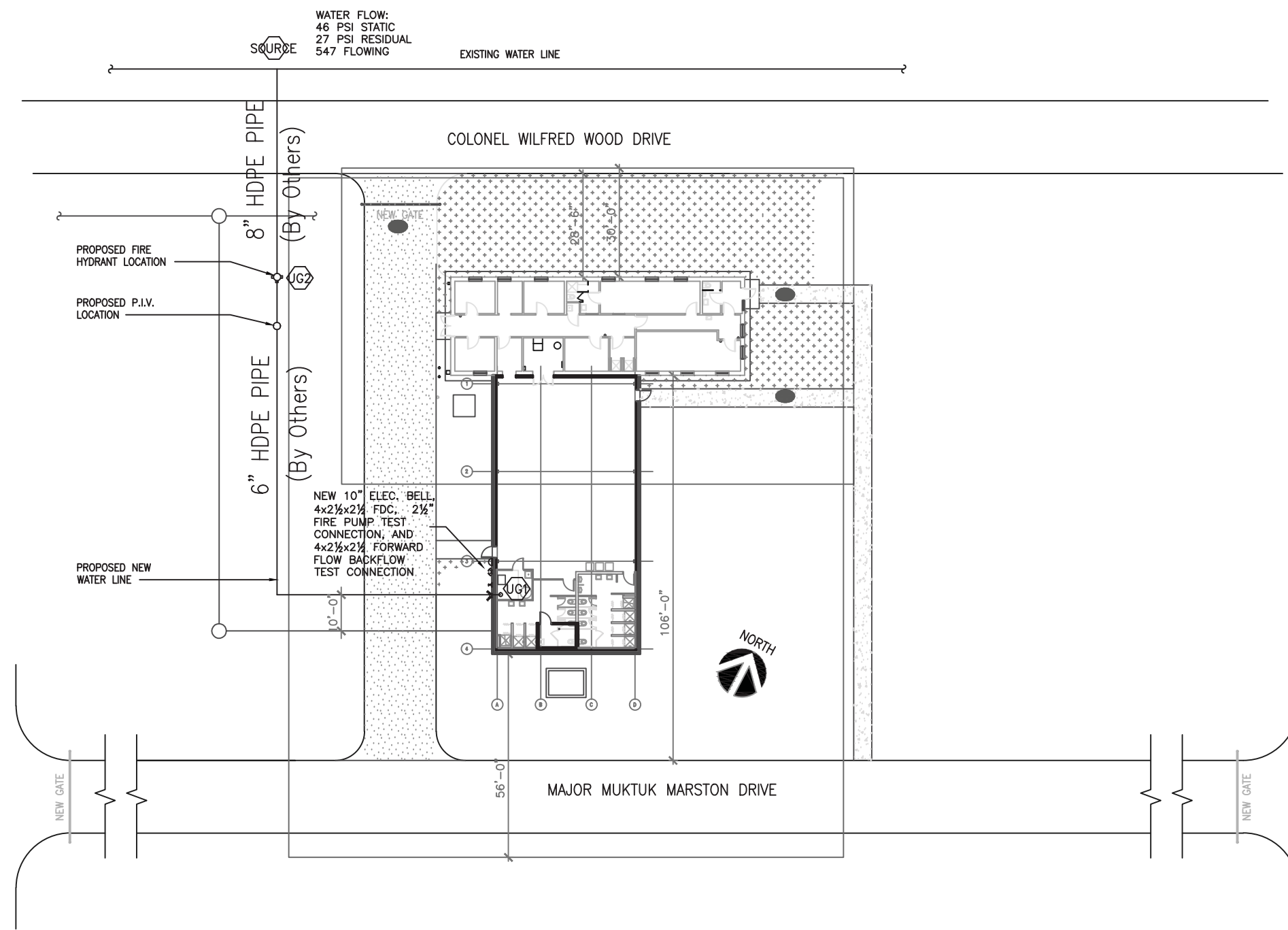
2 BUILDING SECTION
FP-2 1/4" = 1'-0"



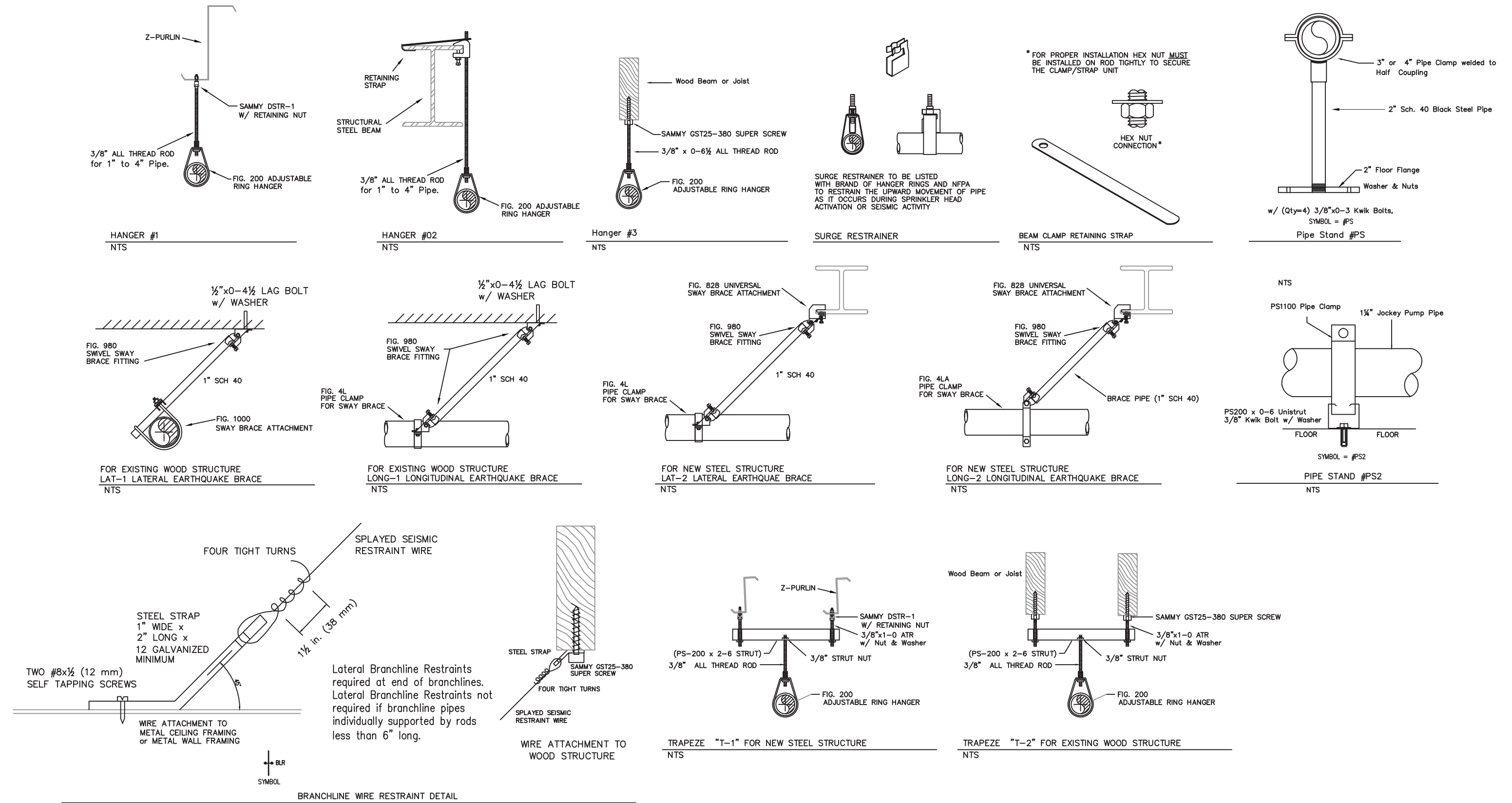
3 BUILDING SECTION
FP-2 1/4" = 1'-0"



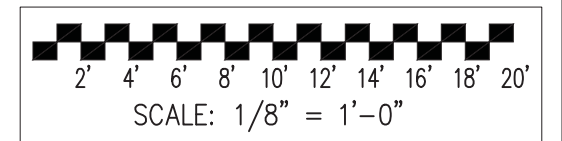
4 BUILDING SECTION
FP-2 1/4" = 1'-0"

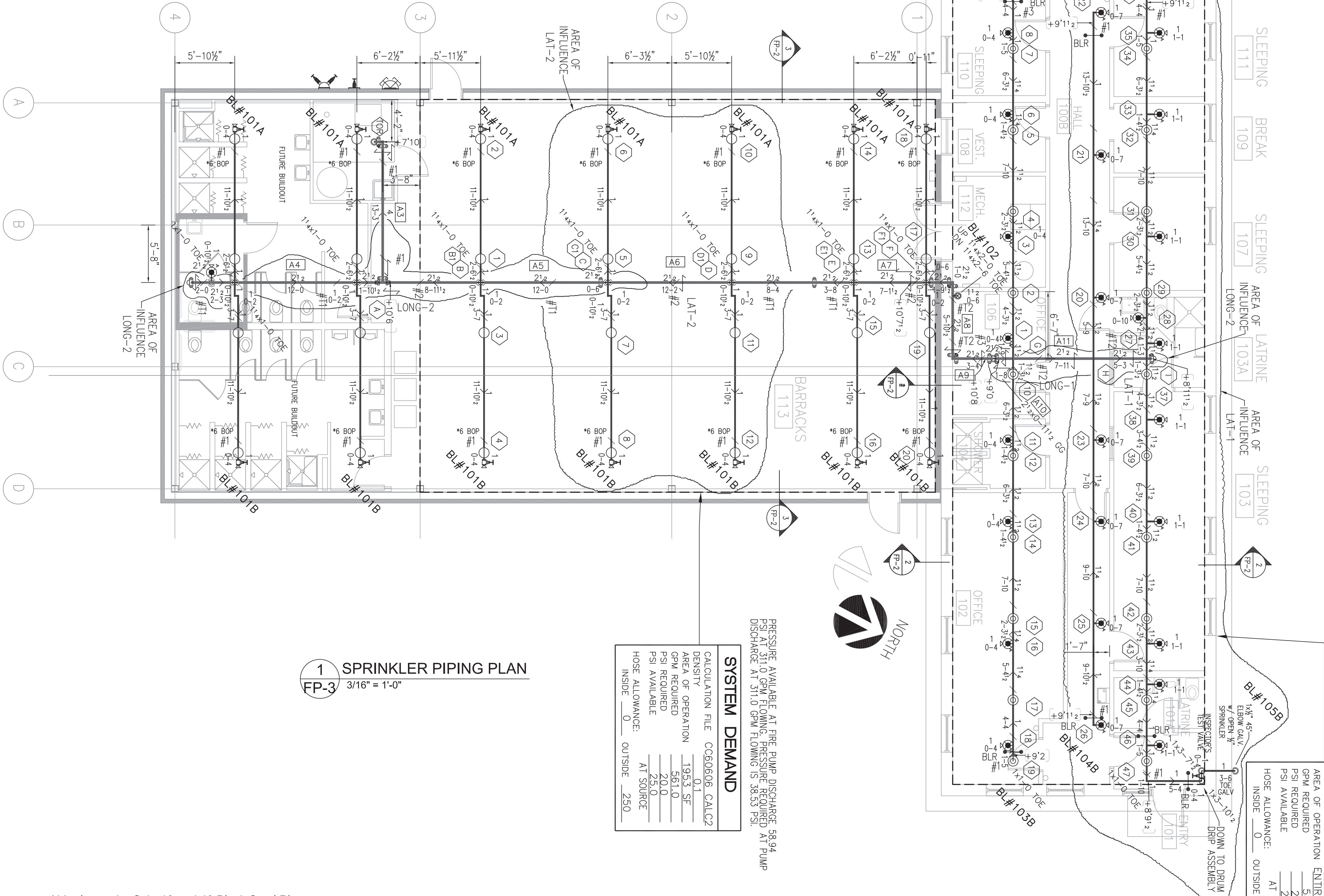


1 SITE PLAN
FP-2 NTS



100% DRAWINGS





1 SPRINKLER PIPING PLAN
FP-3 3/16" = 1'-0"

2 ROOF OVERBUILD SPRINKLER PIPING PLAN
FP-3 3/16" = 1'-0"

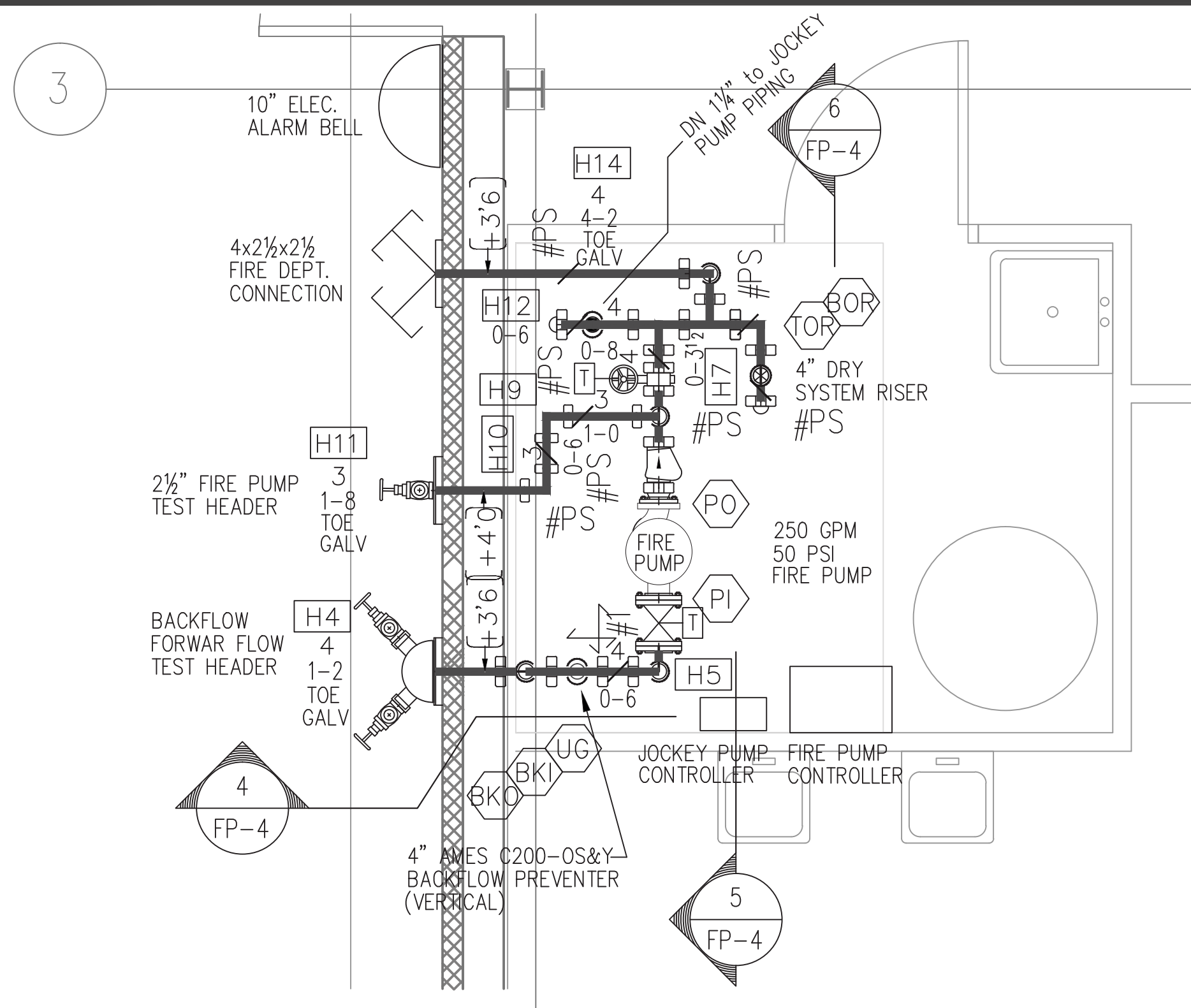
SYSTEM DEMAND	
CALCULATION FILE	CC60606.CALC2
DENSITY	0.1
AREA OF OPERATION	1953.3 SF
GPM REQUIRED	561.0
PSI REQUIRED	20.0
PSI AVAILABLE	25.0
HOSE ALLOWANCE:	AT SOURCE
INSIDE	0
OUTSIDE	250

SYSTEM DEMAND	
CALCULATION FILE	CC60606.CALC1
DENSITY	0.1
AREA OF OPERATION	530.1
GPM REQUIRED	20.0
PSI REQUIRED	27.2
PSI AVAILABLE	27.2
HOSE ALLOWANCE:	AT SOURCE
INSIDE	0
OUTSIDE	250

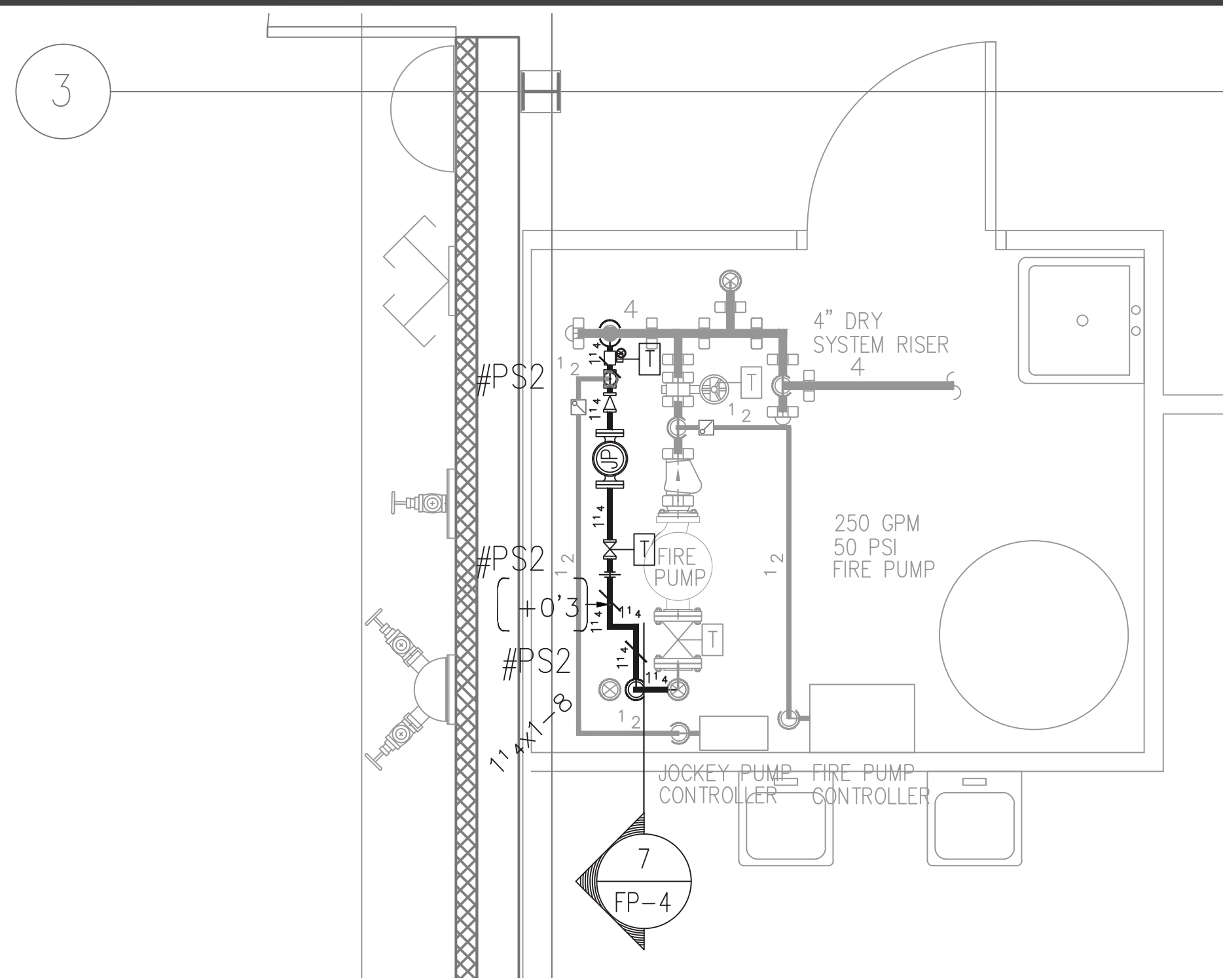
HEAD COUNT					
SPRINKLER TYPE	FINISH	ORIFICE	DEGREE	SYMBOL	QTY.
TYCO TY-FRB Upright, QR, TY2131	Brass	1/2" (K = 4.2)	155°, 200°		50, 6
TYCO DS-1 DRY Pendent, QR, TY3235	Chrome 401	1/2" (K = 5.6)	155°		25
Total This Job = 81					

ALL pipe to be Sch. 10 and 40 Black Steel Pipe.
Use Gruvlok Grooved Fittings and Couplings, with
Standard Orange Finish. Use AnvilStar CI or MI
Threaded Pipe Fittings.

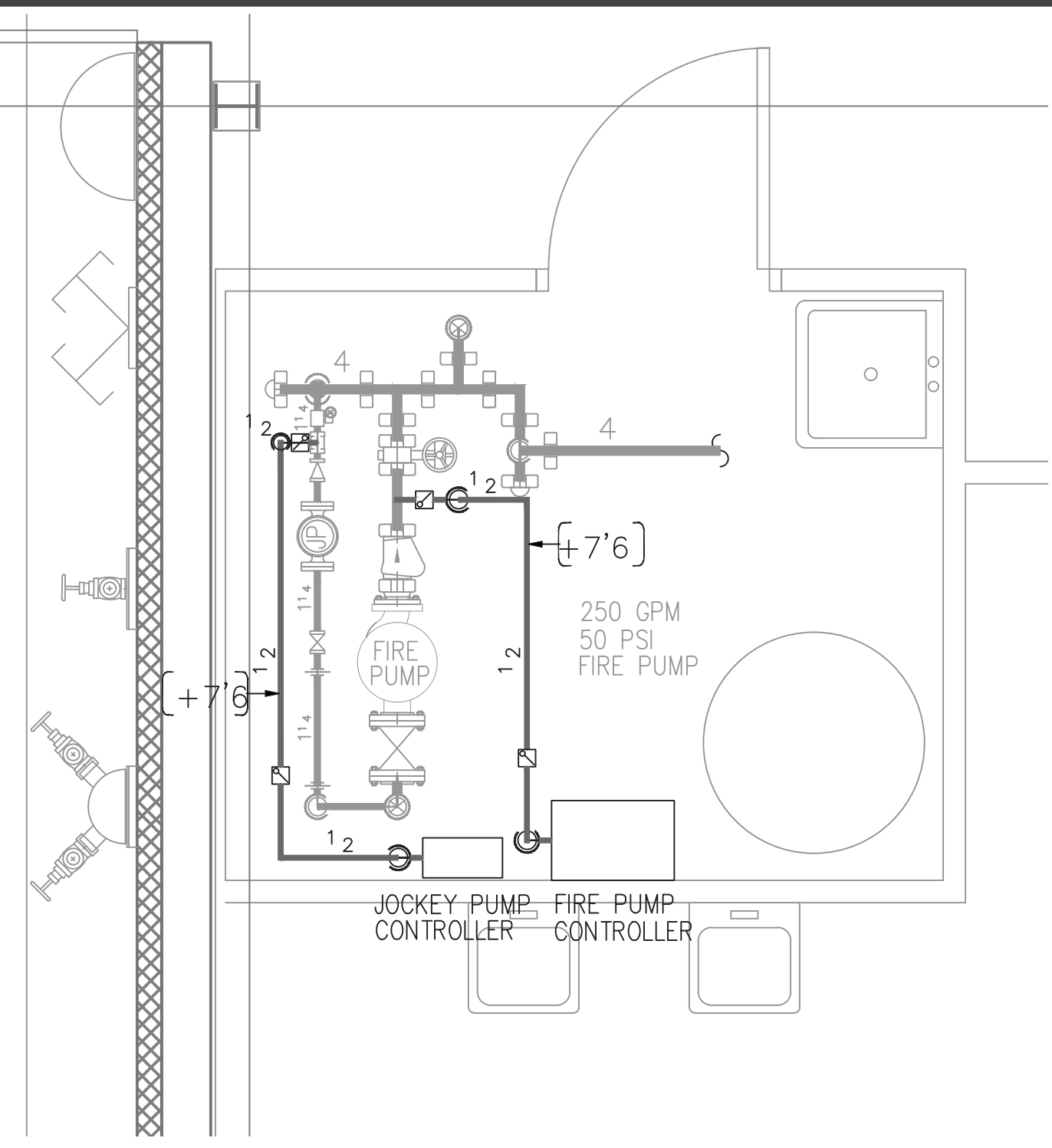
"IIX17 DRAWINGS ARE HALF THE INDICATED SCALE"



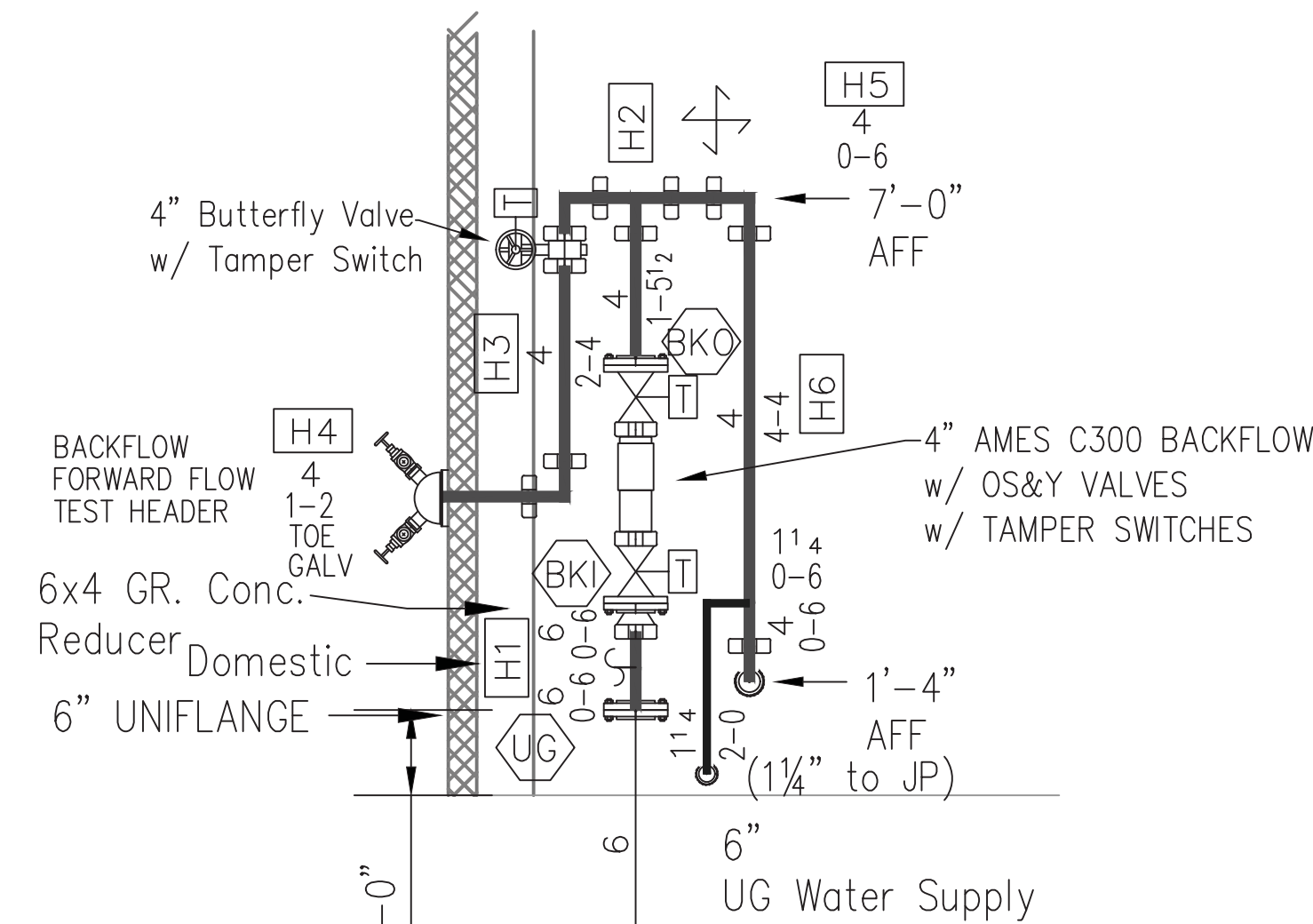
1 FIRE PUMP PIPING PLAN
 FP-4 1/2" = 1'-0"



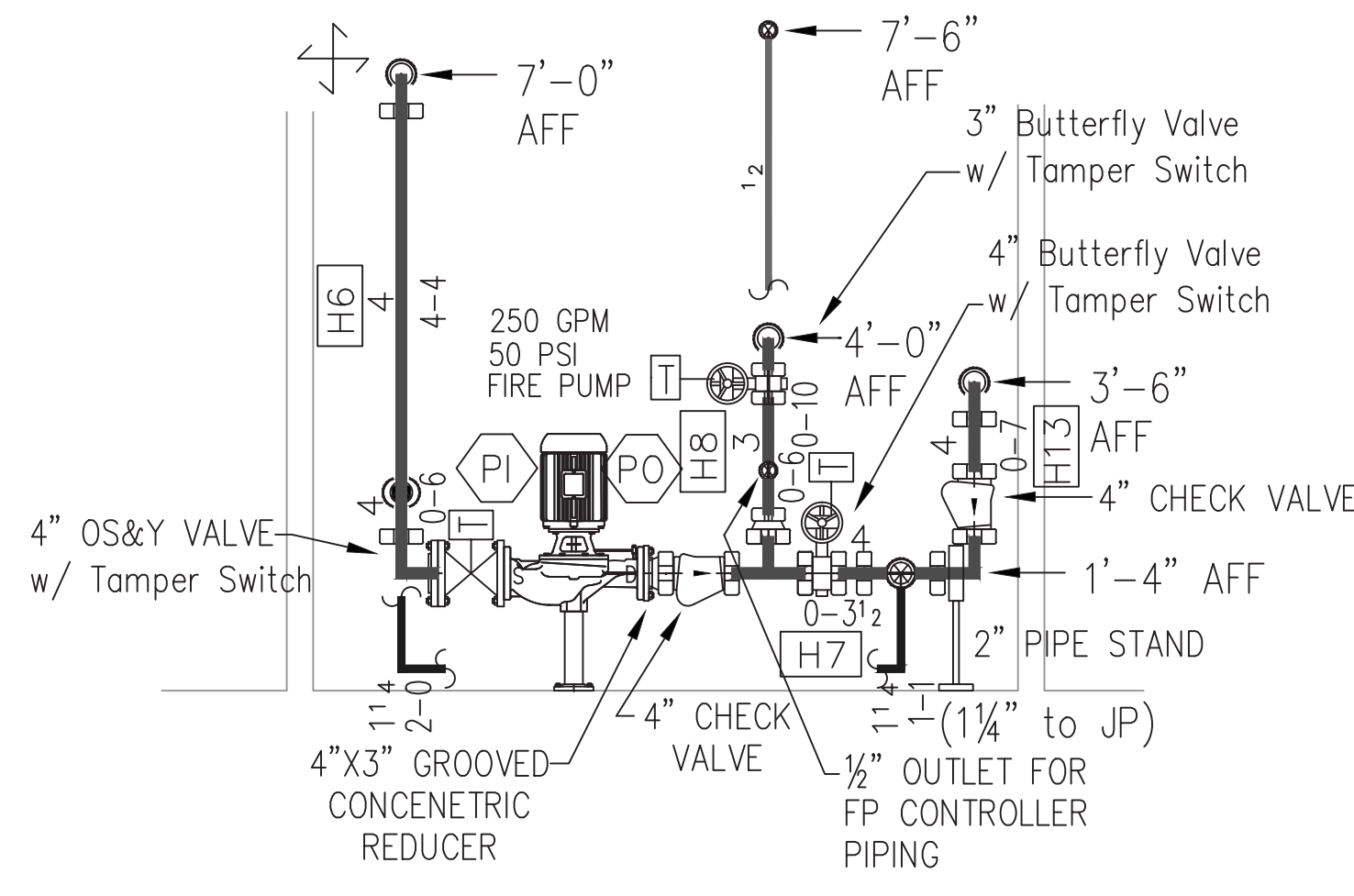
2 JOCKEY PUMP PIPING PLAN
 FP-4 1/2" = 1'-0"



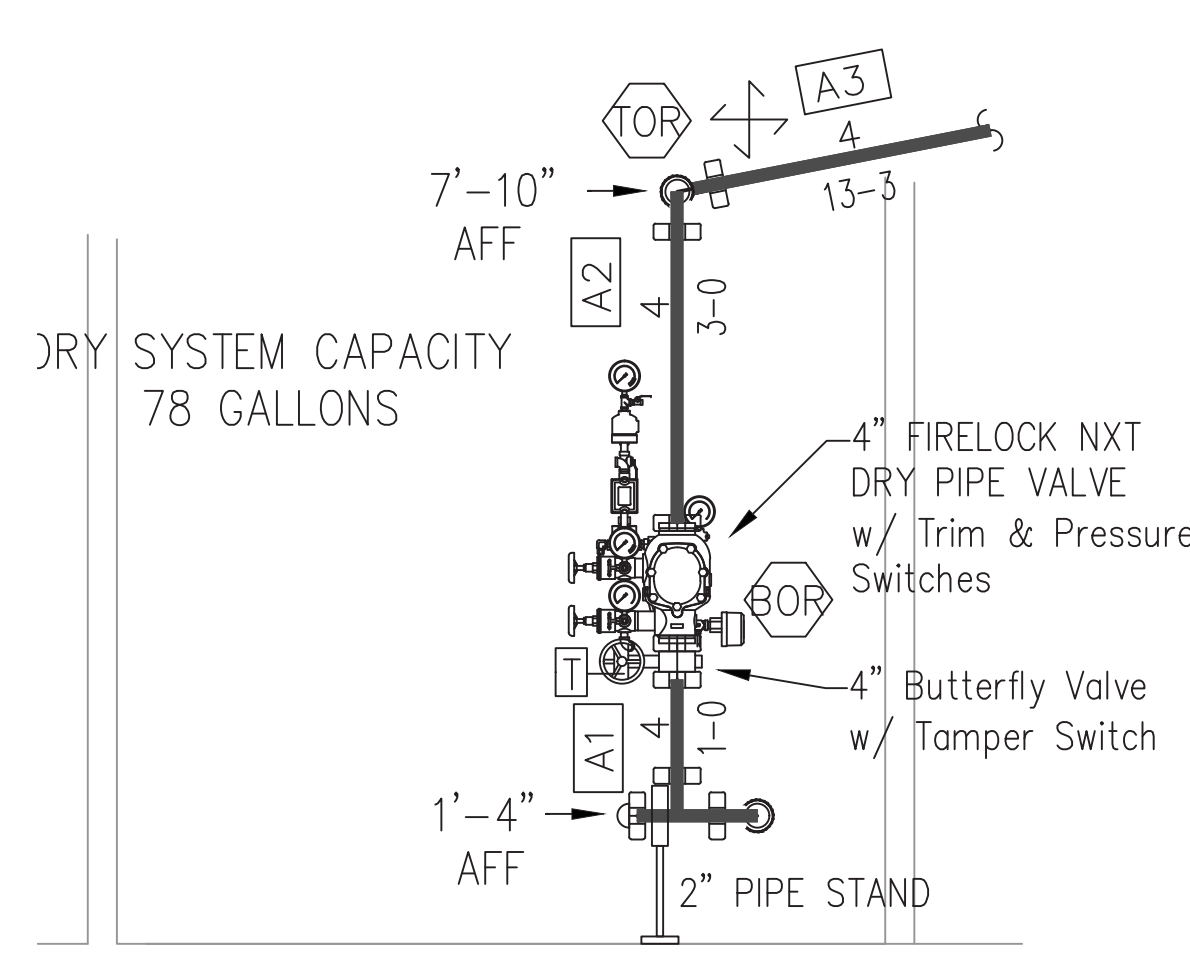
3 FP & JP CONTROLLER PIPING PLAN
 FP-4 1/2" = 1'-0"



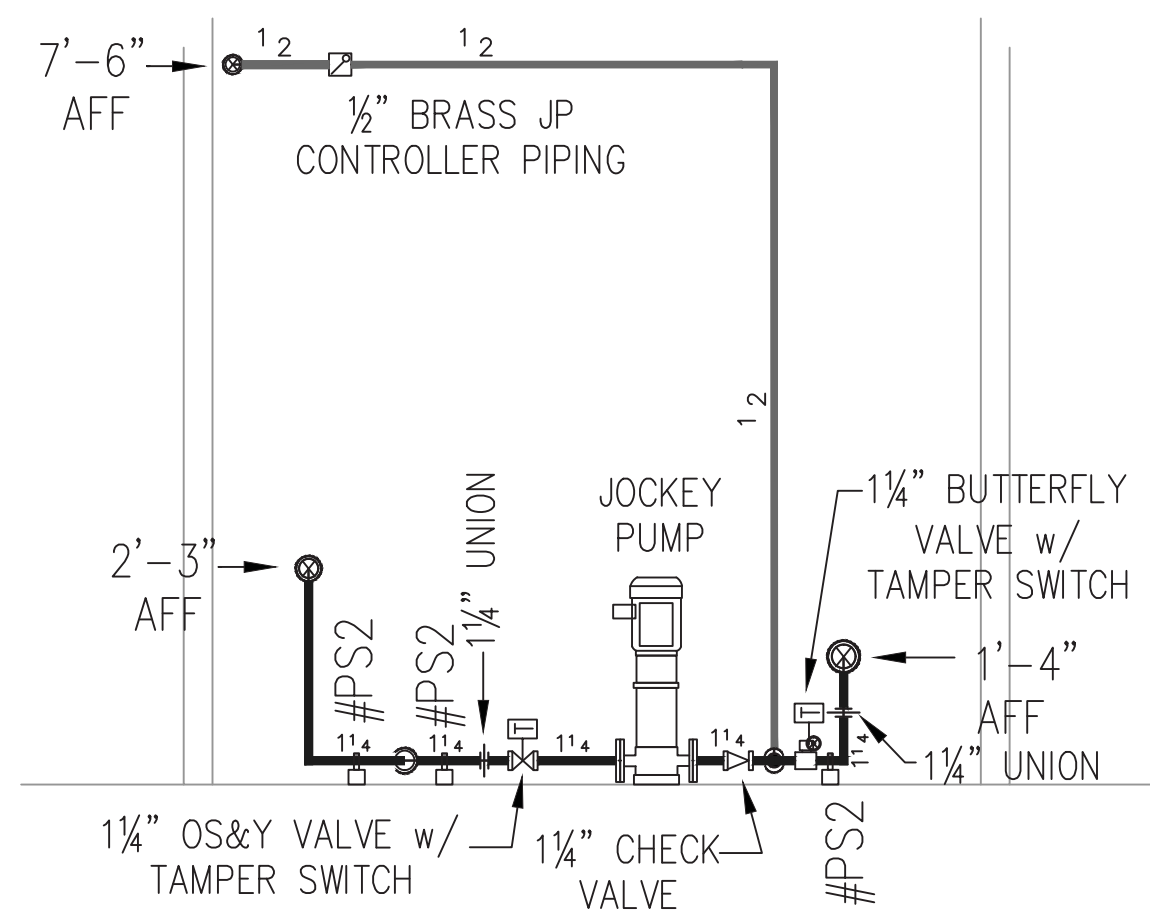
4 WATER SUPPLY PIPING SECTION
 FP-4 1/2" = 1'-0"



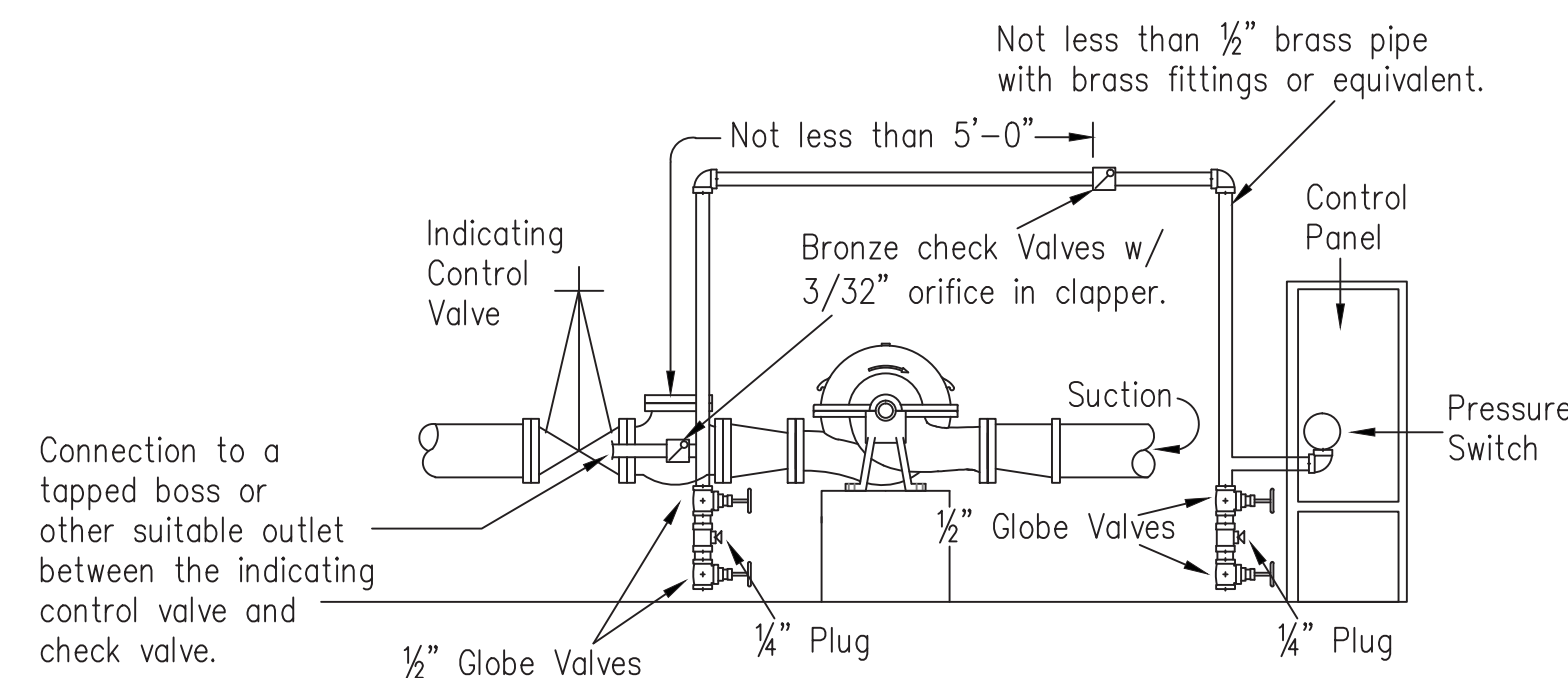
5 FIRE PUMP PIPING SECTION
 FP-4 1/2" = 1'-0"



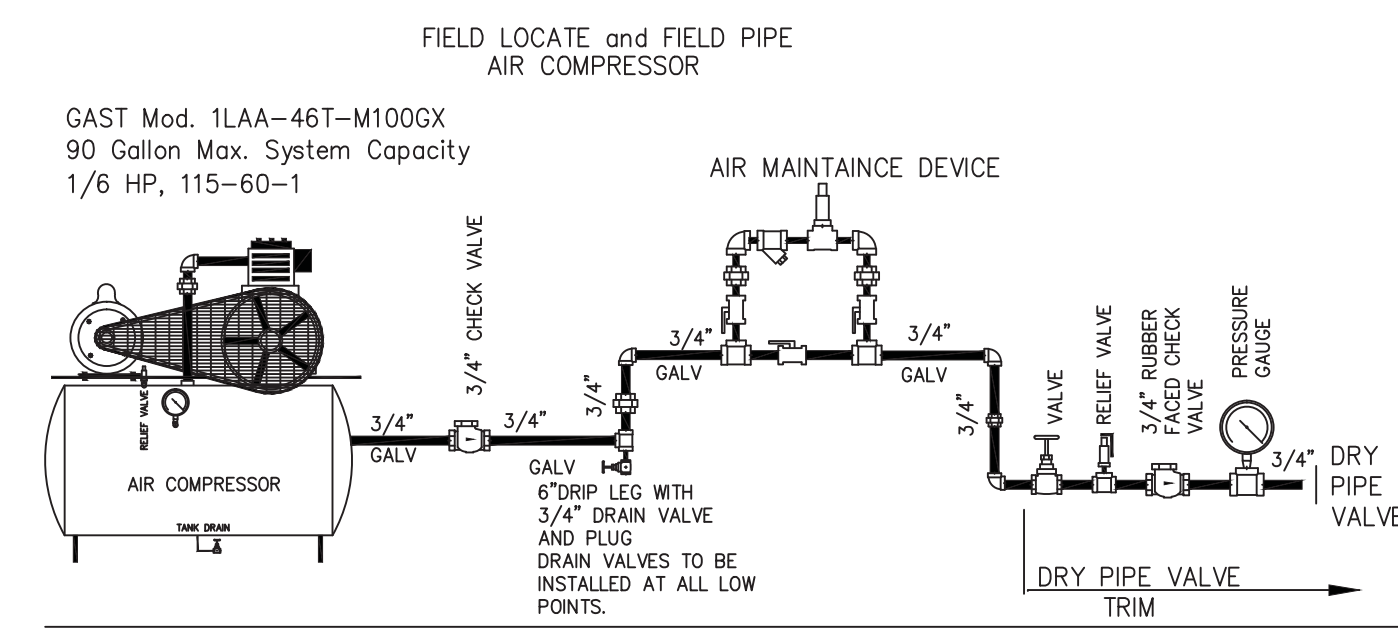
6 DRY RISER SECTION
 FP-4 1/2" = 1'-0"



7 JOCKEY PUMP PIPING SECTION
 FP-4 1/2" = 1'-0"



8 CONTROLLER PIPING DIAGRAM
 FP-4 NOT TO SCALE

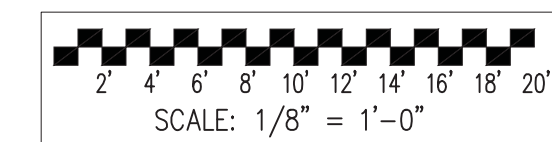


9 SCHEMATIC OF AIR COMPRESSOR
 FP-4 NOT TO SCALE

ALL pipe to be Sch. 10 and 40 Black Steel Pipe.
 Use Gruvlok Grooved Fittings and Couplings, with
 Standard Orange Finish. Use AnvilStar CI or MI
 Threaded Pipe Fittings.

"11X17 DRAWINGS ARE HALF THE INDICATED SCALE"

100% DRAWINGS



GDM inc.
 ARCHITECTURE • PLANNING



12651 Old Seward Highway, Anchorage, AK 99515
 Phone: (907) 344-3475 (FIRE) Fax: (907) 344-3411
 chinookfire@gmail.com

CAMP CARROLL, JBER
 BUILDING #60606 ADDITION

FIRE PUMP ROOM
 LAYOUT

JOB NO. 13015

FP-4

DATE: 4 MARCH 2014