

Addendum #3

Camp Keyes Reutilization Project - Buildings 6, 7, & 8, Augusta, Maine

DFE Project No. 23SR18-458-D & 23SR18-456-D, BREM Project No. 2916

Directorate of Facilities Engineering

28 January 2019

Note: This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated 28 December 2018. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification. It shall be the responsibility of the Contractors to notify all subcontractors and suppliers they propose to use for the various parts of the Work, of any changes or modifications contained in the Addendums.

Clarification Items:

A. Questions asked by the bidders:

1. Building 6 - Substantial Completion date is identified as 31 March 2020 “so that the Owner can have full use of interior space”.
 - i. Since no interior space is to remain for this building, can the paving and other site improvements be performed after 31 March 2020, and before Final Completion of 30 June 2020?
Yes, refer to specification item b. below for changes to specification section 01 00 00, Administrative Provisions.
 - ii. Otherwise is it the intent for the contract work for all buildings to be completed before the paving plants close, normally in November, this year.
No, see the response above.
2. What is the start date for the contract?
As soon as a valid contract is in place. The intention is to issue a letter of intent to the successful bidder within 1 day of the receipt of the bids, subject to the availability of sufficient funding.
3. There is a reference to Building 8 in the Building 6 package. Is that a typo?
Yes, the reference to Building No. 8 has been changed to Building No. 6 on drawing sheet H-001.
4. How will the Camp be closed when we demolish Building 6?
Temporary security/construction fencing will need to be installed from the existing fence at the northwest corner of Building No. 6 to the existing main gate fencing (at the guard house). During demolition of Building No. 6 the main gate and entry into Camp Keyes may be closed during normal work hours as needed and with coordination with MEARNG. The main gate and entry will need to be restored during normal Camp Keyes closed hours. The normal working hours for Camp Keyes is 7:00 AM to 4:00 PM, Monday through Friday. Refer to drawing CD-001 within the Building No. 6 package.
5. (Building 7, Hallway door into BVS space) The door gets changed to be rated. Is the frame to be changed as well? The plans do not call for the frame to be replaced.

Both the door and frame are scheduled to be replaced. Refer to the door schedule on drawing sheet A-201 within the Building No. 7 package.

6. In Building 7, what is the wall made of between the hallway 001 and 008?
The interior of the thickened wall is 2-wythe solid brick masonry.

Specification Items - General:

1. **Remove** Section 00 41 13, Contractor Bid Form in its entirety, and **Insert** the enclosed revised Section 00 41 13, Contractor Bid Form. The change consists of the addition of Alternate #2 for Annex Latrine Fixtures & Finishes Upgrade in Part 2.

Specification Items – Building 6 Package:

1. **Remove** Section 01 00 00, in its entirety, and **insert** enclosed revised Section 01 00 00. Part 1.02, A has been amended. The change consists of excluding bituminous pavement as a requirement for Substantial Completion. Since the substantial completion date is 31 March 2020, and the bituminous pavement plants do not usually open until late April, the exterior bituminous pavement parking areas and paved slopes from the entrance/exit door pads cannot be finished prior to Substantial Completion. The contractor shall provide temporary slopes acceptable to the authority having jurisdiction to permit temporary accessibility until the bituminous pavement can be installed.

Specification Items – Building 7 Package:

1. **Remove** Section 01 00 00, in its entirety, and **insert** enclosed revised Section 01 00 00. Part 1.02, A has been amended. The change consists of excluding bituminous pavement as a requirement for Substantial Completion. Since the substantial completion date is 31 March 2020, and the bituminous pavement plants do not usually open until late April, the exterior bituminous pavement parking areas and paved slopes from the entrance/exit door pads cannot be finished prior to Substantial Completion. The contractor shall provide temporary slopes acceptable to the authority having jurisdiction to permit temporary accessibility until the bituminous pavement can be installed; and the addition of Alternate #2 for the Annex Latrine Fixtures & Finishes Upgrade in Part 1.01, H.
2. Section 23 34 23, HVAC Power Ventilators (Fans): **Delete** Part 2.03 De-stratification Fans DSF 1 & 2.

Specification Items – Building 8 Package:

1. **Remove** Section 01 00 00, in its entirety, and **insert** enclosed revised Section 01 00 00. Part 1.02, A has been amended. The change consists of excluding bituminous pavement as a requirement for Substantial Completion. Since the substantial completion date is 31 March 2020, and the bituminous pavement plants do not usually open until late April, the exterior bituminous pavement parking areas and paved slopes from the entrance/exit door pads cannot

be finished prior to Substantial Completion. The contractor shall provide temporary slopes acceptable to the authority having jurisdiction to permit temporary accessibility until the bituminous pavement can be installed.

Drawing Items –General:

1. Changed items affecting the Work have been revision clouded on the attached revised drawing sheets. Other insignificant general revisions such as, but not limited to, correcting typographical errors have not been revision clouded for clarity.

Drawing Items – Building 6 Package:

1. **Remove** drawing sheet G-000 and **Insert** the enclosed revised drawing sheet G-000.
2. **Remove** drawing sheet H-001 and **Insert** the enclosed revised drawing sheet H-001.
3. **Remove** drawing sheet AD-101 and **Insert** the enclosed revised drawing sheet AD-101.
4. **Remove** drawing sheet C-001 and **Insert** the enclosed revised drawing sheet C-001.
5. **Remove** drawing sheet C-101 and **Insert** the enclosed revised drawing sheet C-101.
6. **Remove** drawing sheet C-300 and **Insert** the enclosed revised drawing sheet C-300.

Drawing Items – Building 7 Package:

1. **Remove** drawing sheet G-002 and **Insert** the enclosed revised drawing sheet G-002.
2. **Remove** drawing sheet H-002 and **Insert** the enclosed revised drawing sheet H-002.
3. **Remove** drawing sheet C-001 and **Insert** the enclosed revised drawing sheet C-001.
4. **Remove** drawing sheet CD-001 and **Insert** the enclosed revised drawing sheet CD-001.
5. **Remove** drawing sheet C-1 and **Insert** the enclosed revised drawing sheet C-1.
6. **Remove** drawing sheet S-000 and **Insert** the enclosed revised drawing sheet S-000.
7. **Remove** drawing sheet S-100 and **Insert** the enclosed revised drawing sheet S-100.
8. **Remove** drawing sheet S-101 and **Insert** the enclosed revised drawing sheet S-101.
9. **Remove** drawing sheet S-102 and **Insert** the enclosed revised drawing sheet S-102.
10. **Remove** drawing sheet S-103 and **Insert** the enclosed revised drawing sheet S-103.
11. **Remove** drawing sheet S-104 and **Insert** the enclosed revised drawing sheet S-104.
12. **Remove** drawing sheet S-105 and **Insert** the enclosed revised drawing sheet S-105.
13. **Remove** drawing sheet S-200 and **Insert** the enclosed revised drawing sheet S-200.
14. **Remove** drawing sheet S-201 and **Insert** the enclosed revised drawing sheet S-201.
15. **Remove** drawing sheet A-002 and **Insert** the enclosed revised drawing sheet A-002.
16. **Remove** drawing sheet AD-101 and **Insert** the enclosed revised drawing sheet AD-101.
17. **Remove** drawing sheet AD-102 and **Insert** the enclosed revised drawing sheet AD-102.
18. **Remove** drawing sheet AD-103 and **Insert** the enclosed revised drawing sheet AD-103.
19. **Remove** drawing sheet AD-111 and **Insert** the enclosed revised drawing sheet AD-111.
20. **Remove** drawing sheet AD-112 and **Insert** the enclosed revised drawing sheet AD-112.
21. **Remove** drawing sheet AD-113 and **Insert** the enclosed revised drawing sheet AD-113.
22. **Remove** drawing sheet AD-121 and **Insert** the enclosed revised drawing sheet AD-121.

69. **Remove** drawing sheet M-106 and **Insert** the enclosed revised drawing sheet M-106.
70. **Remove** drawing sheet M-107 and **Insert** the enclosed revised drawing sheet M-107.
71. **Remove** drawing sheet M-108 and **Insert** the enclosed revised drawing sheet M-108.
72. **Remove** drawing sheet M-109 and **Insert** the enclosed revised drawing sheet M-109.
73. **Remove** drawing sheet M-110 and **Insert** the enclosed revised drawing sheet M-110.
74. **Remove** drawing sheet M-111 and **Insert** the enclosed revised drawing sheet M-111.
75. **Remove** drawing sheet M-112 and **Insert** the enclosed revised drawing sheet M-112.
76. **Remove** drawing sheet M-113 and **Insert** the enclosed revised drawing sheet M-113.
77. **Remove** drawing sheet M-114 and **Insert** the enclosed revised drawing sheet M-114.
78. **Remove** drawing sheet M-116 and **Insert** the enclosed revised drawing sheet M-116.
79. **Remove** drawing sheet M-118 and **Insert** the enclosed revised drawing sheet M-118.
80. **Remove** drawing sheet M-201 and **Insert** the enclosed revised drawing sheet M-201.
81. **Remove** drawing sheet M-202 and **Insert** the enclosed revised drawing sheet M-202.
82. **Remove** drawing sheet M-203 and **Insert** the enclosed revised drawing sheet M-203.
83. **Remove** drawing sheet M-204 and **Insert** the enclosed revised drawing sheet M-204.
84. **Remove** drawing sheet M-205 and **Insert** the enclosed revised drawing sheet M-205.
85. **Remove** drawing sheet M-206 and **Insert** the enclosed revised drawing sheet M-206.
86. **Remove** drawing sheet M-301 and **Insert** the enclosed revised drawing sheet M-301.
87. **Remove** drawing sheet ED-100 and **Insert** the enclosed revised drawing sheet ED-100.
88. **Remove** drawing sheet ED-101 and **Insert** the enclosed revised drawing sheet ED-101.
89. **Remove** drawing sheet ED-111 and **Insert** the enclosed revised drawing sheet ED-111.
90. **Remove** drawing sheet ED-121 and **Insert** the enclosed revised drawing sheet ED-121.
91. **Remove** drawing sheet E-100 and **Insert** the enclosed revised drawing sheet E-100.
92. **Remove** drawing sheet E-101 and **Insert** the enclosed revised drawing sheet E-101.
93. **Remove** drawing sheet E-110 and **Insert** the enclosed revised drawing sheet E-110.
94. **Remove** drawing sheet E-111 and **Insert** the enclosed revised drawing sheet E-111.
95. **Remove** drawing sheet E-120 and **Insert** the enclosed revised drawing sheet E-120.
96. **Remove** drawing sheet E-121 and **Insert** the enclosed revised drawing sheet E-121.
97. **Remove** drawing sheet E-122 and **Insert** the enclosed revised drawing sheet E-122.
98. **Remove** drawing sheet E-200 and **Insert** the enclosed revised drawing sheet E-200.
99. **Remove** drawing sheet E-204 and **Insert** the enclosed revised drawing sheet E-204.
100. **Remove** drawing sheet E-205 and **Insert** the enclosed revised drawing sheet E-205.

Drawing Items – Building 8 Package:

1. **Remove** drawing sheet G-000 and **Insert** the enclosed revised drawing sheet G-000.
2. **Remove** drawing sheet G-001 and **Insert** the enclosed revised drawing sheet G-001.
3. **Remove** drawing sheet C-101 and **Insert** the enclosed revised drawing sheet C-101.
4. **Remove** drawing sheet C-300 and **Insert** the enclosed revised drawing sheet C-300.
5. **Remove** drawing sheet S-000 and **Insert** the enclosed revised drawing sheet S-000.
6. **Remove** drawing sheet S-100 and **Insert** the enclosed revised drawing sheet S-100.
7. **Remove** drawing sheet S-101 and **Insert** the enclosed revised drawing sheet S-101.
8. **Remove** drawing sheet S-200 and **Insert** the enclosed revised drawing sheet S-200.
9. **Remove** drawing sheet A-001 and **Insert** the enclosed revised drawing sheet A-001.
10. **Remove** drawing sheet AD-101 and **Insert** the enclosed revised drawing sheet AD-101.

11. **Remove** drawing sheet A-101 and **Insert** the enclosed revised drawing sheet A-101.
12. **Remove** drawing sheet A-102 and **Insert** the enclosed revised drawing sheet A-102.
13. **Remove** drawing sheet A-201 and **Insert** the enclosed revised drawing sheet A-201.
14. **Remove** drawing sheet A-401 and **Insert** the enclosed revised drawing sheet A-401.
15. **Remove** drawing sheet A-501 and **Insert** the enclosed revised drawing sheet A-501.
16. **Remove** drawing sheet A-502 and **Insert** the enclosed revised drawing sheet A-502.
17. **Remove** drawing sheet P-102 and **Insert** the enclosed revised drawing sheet P-102.
18. **Remove** drawing sheet M-101 and **Insert** the enclosed revised drawing sheet M-101.
19. **Remove** drawing sheet ED-100 and **Insert** the enclosed revised drawing sheet ED-100.
20. **Remove** drawing sheet E-100 and **Insert** the enclosed revised drawing sheet E-100.
21. **Remove** drawing sheet E-102 and **Insert** the enclosed revised drawing sheet E-102.
22. **Remove** drawing sheet E-200 and **Insert** the enclosed revised drawing sheet E-200.
23. **Remove** drawing sheet ES-100 and **Insert** the enclosed revised drawing sheet ES-100.

END OF ADDENDUM #3

**00 41 13
Contractor Bid Form**

Camp Keyes Reutilization Project - Building 6, 7, 8 Renovations

To: *Contract Administrator*
Dept. of Defense, Veterans, & Emergency Management
32 State House Station
Augusta, Maine 04333-0032

The undersigned, or *Bidder*, having carefully examined the form of contract, general conditions, specifications and drawings dated 28 December 2018, prepared by Cordjia Capital Projects Group, LLC for Camp Keyes Reutilization Project, Buildings 6, 7, 8, as well as the premises and conditions relating to the work, proposes to furnish all labor, equipment and materials necessary for and reasonably incidental to the construction and completion of this project for the **Base Bid** amount of:

\$ _____ .00

The Base Bid amount above is the sum of the components below:

Building No. 6 - Demolition \$ _____ .00

Building No. 7 - Renovation \$ _____ .00

Building No. 8 - Demolition/Renovation \$ _____ .00

1. Allowances *are not included* on this project.

<Bid Administrator to select...>

insert brief name of Allowance

\$

insert brief name of Allowance

\$ *insert dollar amount of Allowance*

2. Alternate Bids *are included* on this project.

Alternate Bids are as shown below

Any dollar amount line below that is left blank by the Bidder shall be taken as a bid of **\$0.00**.

1 Bldg 7 Construction of Stair #6 \$ _____ .00

2 Bldg 7 Annex Latrines Upgrades \$ _____ .00

3 Not used \$ _____ .00

**00 41 13
Contractor Bid Form**

3. The Bidder acknowledges receipt of the following addenda to the specifications and drawings:

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

Addendum No. _____ Dated: _____

4. Bid security *is required* on this project.

If noted above as required, the Bidder shall include a satisfactory Bid Bond (section 00 43 13) or a certified or cashier's check for 5% of the bid amount with this completed bid form submitted to the Owner.

5. Filed Sub-bids *are not required* on this project.

**00 41 13
Contractor Bid Form**

Camp Keyes Reutilization Project - Building 6, 7, 8 Renovations

6. The Bidder agrees, if this bid is accepted by the Owner, to sign the designated Owner-Contractor contract and deliver it, with any and all bonds and affidavits of insurance specified in the Bid Documents, within twelve calendar days after the date of notification of such acceptance, except if the twelfth day falls on a State of Maine government holiday or other closure day, or a Saturday, or a Sunday, in which case the aforementioned documents must be received before 12:00 noon on the first available business day following the holiday, other closure day, Saturday, or Sunday.

As a guarantee thereof, the Bidder submits, together with this bid, a bid bond or other acceptable instrument as and if required by the Bid Documents.

7. This bid is hereby submitted by:

Signature: _____

Printed name and
title: _____

Company name: _____

Mailing address: _____

City, state, zip code: _____

Phone number: _____

Email address: _____

State of
incorporation,
if a corporation: _____

List of all partners,
if a partnership: _____

SECTION 01 00 00

ADMINISTRATIVE PROVISIONS

PART 1 GENERAL

1.01 CONTRACT REQUIREMENTS

A. Scope of Work

1. The Work of the Contract includes *interior renovation and partial demolition of Camp Keyes Building 8 as defined by the drawings and specifications titled "Building 8 Renovations"*.

B. Contract Method

1. Basis of award of this Contract will be in accordance with Section 1 Instructions to Bidder, Paragraph 2.
2. Contract type: State of Maine – Bureau of Real Estate Management (BREM), Construction Contract, Section 00 52 13.
3. The project will be constructed under a single lump sum contract.

C. Work Sequence

1. Work of the Contract and related provisions are as described in the Contract Documents.

D. Contractor Use of Premises

1. Work of this Contract includes coordinating the work with the daily operations of the Owner.
2. Limit use of premises for Work and construction operations only, allow for Owner occupancy, work by other Contractors, and public access.
3. Federal Holiday Schedule. The Contractor may not work on Federal Holidays.
4. Limit access to Owner's site, hours of operations are 7:00 A.M. - 4:00 P.M. If Contractor would like to work on a federal or state holiday he/she must request permission from Owner three working days in advance. The Owner reserves the right to accept or reject Contractor's request.
5. The Contractor must work with each organization to gain access to certain areas throughout the building. When the Contractor needs to gain access to certain areas, he must notify each organization seven working days in advance.

6. Coordinate use of premises under direction of Owner.
7. The Contractor shall be responsible for his/her security in Construction Area until substantial completion. The contractor shall coordinate security of Building with Owner.

E. Owner Occupancy

1. Owner will occupy surrounding areas during entire period of construction, to conduct Owner's normal operations. The Contractor shall cooperate with Owner to minimize conflict to the Owner's operations.

F. Owner-furnished Products: Not Used

G. Schedule of Allowances: Not Used

H. Additive Alternate: Not Used

I. Unit Prices: Not Used

J. Applications for Payment:

1. Submit four (4) copies of each application under procedures of 00 72 13 Section 32, on "Requisition for Payment", Form B.G.S. 17-A-61, revised 29 Feb. 08.

K. Coordination:

1. Work of this Contract includes coordination of the entire Work of the Project.
2. The Contractor shall obtain and pay for all necessary construction/building permits. The Contractor shall send (two) copies of all permits to the Owner.
3. Coordinate work with all utilities. Interruption of services shall be coordinated with an appropriate official at the facility to minimize the disruption of operations within the facility.
4. Notify the DFE Project Manager at least three days in advance of the need to move furnishings, equipment, materials, etc. from areas to be affected by the construction.
5. Control on-site activities to minimize the disruption of the occupants.
6. Coordinate the work of equipment and material suppliers and subcontractors.
7. Make arrangements for the timely delivery of materials and supplies to the job site and for their temporary storage on site.
8. Maintain the project site in a neat condition.

9. Assist the Owner during periodic site visits and in the review of construction.
10. Maintain up to date progress records and as-built drawings.

L. CONFLICTS

1. Contractor shall notify Owner in writing of any real or apparent conflicts in the Contract Documents and, except in cases of emergency, await Owner's determination before proceeding.
2. The **Owner's Project Manager** shall resolve conflicts that arise during construction.
3. If two or more solutions are indicated in the Contract Documents, the Contractor shall assume the cost of the more expensive solution unless otherwise directed by the Owner.

M. Field Engineering

1. The Contractor shall be responsible for all field engineering as required.
2. The Contractor shall be responsible for all special inspections required to obtain a Building Permit from the **City of Augusta**.

N. Reference Standards

1. For products specified by association or trade standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
2. The date of the standard is that in effect as of the Bid date, or date of Owner-Contractor Agreement when there are no bids, except when a specific date is given.
3. Obtain copies of standards when required by Contract Documents. Maintain copy at job site during progress of the specific work.

1.02 SCHEDULING AND PHASING OF WORK

A. Substantial Completion: Work of the Contract must be Substantially Completed by **31 March 2020** so that the Owner can have full use of interior space.

1. Except as otherwise specified, Substantial Completion is hereby defined to mean a stage of completion sufficient for the Owner to have full beneficial use and occupancy of the structure involved, less bituminous pavement, and only minor corrections and repairs that can be performed without undue annoyance to building occupants which shall be documented on the "punch list" as specified hereinafter. Beneficial use and occupancy means removal of all debris, interior and exterior scaffolding, surplus equipment and material and cleaning as required under the Contract completed.

- B. Final Completion of all Work of this Contract shall be by 30 June 2020.
 - 1. Except as otherwise specified, Final Completion is when the Work of the Contract has been completed in accordance with the terms and conditions of the contract documents with no “punch list” items open, and is ready for final payment.
- C. The expiration date of this Contract is 31 December 2020.
 - 1. Except as otherwise specified, Expiration Date is hereby defined to mean the date when all engagements of the parties has ended, except to those which arise from the non-fulfillment of obligations created during its existence, such as warranties.
- D. Normal building operations will continue throughout the length of the Project. The successful Contractor shall develop a schedule of work that is respectful of the Owner's needs but with a mutual understanding that temporary relocation of personnel within the building will be required.
- E. Within ten (10) working days following receipt of the fully executed formal Contract Agreement by the Contractor, the Contractor shall prepare a proposed Phasing and Progress Schedule. The final Schedule shall be as mutually agreed to by the Owner and Contractor, and within the following guidelines:
 - 1. The Owner's business operations must continue throughout the entire construction period.
 - 2. Work within the building interior must comply with the Owner's requirements for continued use and occupancy.
 - 3. Applicable egress codes must be complied with during the construction period. In particular, building entrances and exit ways must be kept open at all times.

1.03 REGULATORY REQUIREMENTS

- A. Conform to Local, State and Federal codes.

1.04 PROJECT MEETINGS

- A. Requirements:

- 1. Contractor shall, upon acceptance of a Contract and before commencing Work, contact the Owner and request a pre-construction conference as required in 00 72 13 Section 1.

- B. Pre-construction Conference

- 1. The OWNER will administer pre-construction conference for execution of Owner-Contractor Agreement and exchange of preliminary submittals.

- C. Progress Meetings

1. The Contractor shall schedule and administer Project meetings throughout progress of the Work, called meetings, and pre-installation conferences.
2. The Contractor shall make physical arrangements for meetings, prepare agenda with copies for participants, preside at meetings, record minutes, and distribute copies within two days to Owner, participants, and those affected by decisions made at meetings.
3. Attendance: Job superintendent, major Subcontractors and suppliers, Owner and those appropriate to agenda topics for each meeting.
4. Suggested Agenda: Review of Work progress, status of progress schedule and adjustments thereto, delivery schedules, submittals, maintenance of quality standards, pending changes and substitutions, and other items affecting progress of Work.

1.05 SUBMITTALS

A. Procedures

1. In all submittals always refer to project number **23SR18-456-D**.
2. Refer to schedule of Contractor Deliverables provided by Owner/Designer.
3. Submit the number of copies which Contractor requires, plus two copies, which will be retained by OWNER.
4. Submittals can be delivered electronically to both the Designer and Owner. If submitting by e-mail, submit to the Designer for approval, and the Owner for review, at the e-mail address below:

Designer: mdaigle@cordjiacpg.com

Owner: robert.w.gurney3.nfg@mail.mil

5. Submittals can be delivered in paper form. Deliver copies of submittals to Designer for approval at the address below:

Cordjia Capital Projects Group
Attn: Mitch Daigle
16 Tannery Ln #23
Camden, ME 04843

And one (1) copy to the Owner for review:

Directorate of Facilities Engineering
194 Winthrop Street
BLDG 8, Camp Keyes – ATTN: Bob Gurney
Augusta, ME 04330

6. Submittal Sheets:
 - a. Transmit each item under “Transmittal of Shop Drawings, Equipment Data, Material Samples, or Manufacturer’s Certificates of Compliance” located at the end of this Section;
 - b. Identify Project, Contractor, Subcontractor, major supplier;
 - c. Identify drawing sheet and detail number, and Specification Section number, as appropriate;
 - d. Identify deviations from Contract Documents.
 7. Comply with progress schedule for submittals related to Work progress. Coordinate submittal of related items.
 8. DESIGNER shall have 14 calendar days for review of submittals.
 9. After **DESIGNER** review of submittal, revise and resubmit as required identifying changes made since previous submittal.
 10. Distribute copies of reviewed submittals to concerned persons. Instruct recipients to promptly report any inability to comply with provisions.
- B. Quality Assurance; Substitutions, in accordance with Section 01 00 00, para. 1.08 (E).
- C. Construction Progress Schedule
1. Submit an Initial Progress Schedule in duplicate. See 1.02.A.3 this section for submission information. After review by OWNER revise and resubmit as required.
 2. The Contractor shall submit six (6) copies of the Final Construction Progress Schedule within 4 calendar days of OWNER review.
 3. Submit revised schedules with each Application for Payment, reflecting changes since previous submittal.
- D. Submittal Schedule
1. Submit a Submittal Schedule in duplicate within ten (20) working days following receipt of the fully executed formal Contract Agreement by the Contractor. After review by OWNER revise and resubmit as required.
 2. Prepare the schedule in chronological order. Provide the following information:
 - a. Schedule date for the initial submittal.
 - b. Related section number.
 - c. Submittal category (Shop Drawings, Product Data, or Samples).
 - d. Name of Subcontractor.
 - e. Description of the part of Work covered.
 - f. Scheduled date for resubmittal.

- g. Scheduled date for the Architect's final release of approval.
2. Show submittal dates required for Shop Drawings, Product Data, and Samples, and product delivery dates, including those furnished by Owner and those under Allowances as applicable.
- E. Schedule of Values
1. Submit Contract Schedule of Values in duplicate within 10 days after date of Owner - Contractor Agreement. The Contractor shall include in their Contract Schedule of Values a Closeout Documentation Line Item. The Closeout Documentation Line Item shall consist of 5% of the total contract amount. This Closeout Documentation Line Item is to ensure that all Closeout Documentation are provided to the Owner and Consultant in a timely manner as stated in these Contract Documents.
 2. Submit typed schedule on "Requisition for Payment", Form B.G.S. 17-A-61, revised 29 Feb. 08.
 3. Format: Table of Contents of this Project Manual.
 4. Include in each line item a directly proportional amount of Contractor's overhead and profit.
 5. Revise schedule to list change orders, for each application for payment.
- F. Shop Drawings
1. Shop drawings will be submitted to Owner, in accordance with para. 1.05 of this Section.
- G. Product Data
1. Mark each copy to identify applicable products, models, options, and other data; supplement manufacturers' standard data to provide information unique to the Work.
 2. Submit the number of copies required in 1.05.A.2, this Section.
- H. Manufacturer's Instructions
1. Submit the number of copies required in 1.05.A.2, this Section, of Manufacturer's Instructions.
- I. Samples Not Used
- J. Field Samples Not Used
- K. Background Check Requirements:
1. **A contact name and number for each of the contractor's employees who will be or expects to be working in the facility must be up to date at all times.**

2. Anyone allowed into the facility by the contracted vendor's personnel is considered to be a representative of the contractor and must/may be required to have a prior approved Department background check before being allowed into the facility. The Contractor shall supply a list of people who may be either involved in the work effort or present at the facility to the Agreement Administrator with-in two weeks after the award of the contract or two weeks prior to the beginning of the contract whichever comes first. The list will include first name, middle initial, last name, date of birth, maiden name (s) for each person. The Department retains the right to screen and restrict from the facility personal employed by or represents the provider who do not receive a satisfactory/passing background check.
3. Anyone allowed into the facility by the contracted vendor's personnel is considered to be a representative of the contractor and must have a prior approved Department background check before being allowed into the facility.
4. THE DEPARTMENT WILL PROVIDE TO THE CONTRACTOR THE NAMES OF THOSE PERSONNEL THAT ARE ACCEPTABLE FOR ACCESS, AND THOSE THAT ARE NOT ACCEPTABLE FOR UNESCORTED ACCESS INTO OUR FACILITIES. DEPARTMENT WILL NOT BE LEGALLY ALLOWED TO SHARE ANY SPECIFICS REGARDING WHY CERTAIN PERSONNEL ARE CONSIDERED UNACCEPTABLE FOR ACCESS
5. Disqualified Persons: Persons will be automatically disqualified if their background checks show they were convicted or currently charged with a crime that is punishable by an imprisonment for a term of one year or more, or found not criminally responsible of committing a crime that is punishable by an imprisonment for a term of one year or more.
6. Persons may be disqualified for convictions and associated criminal behavior defined in M.R.S. Title 17-A, Maine Criminal Code, equivalent violations in other states, and federal law.
7. Exemptions to the above provisions may be authorized by SFC John Knoblach or designee Security Officer.
8. Example of Requirement:

Company	First Name	Middle Initial	Last Name	Date of Birth (MM/DD/YYYY)	Maiden Name 1	Location(s) Working
	John	T	Smith	01/01/1970		
	Jane	P	Brown	07/07/1971	Baker	
Person 1						
Person 2						
Person 3						

1.06 QUALITY CONTROL

A. Quality Control, General

1. Maintain quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

B. Workmanship

1. Comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
2. Perform work by persons qualified to produce workmanship of specified quality.
3. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and racking.

C. Manufacturers' Instructions

1. Comply with instructions in full detail, including each step in sequence. Should instructions conflict with Contract Documents, request clarification from Owner before proceeding.

D. Manufacturers' Certificates

1. When required by individual Specifications Section, submit manufacturer's certificate, in duplicate, those products that meet or exceed specified requirements.

1.07 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

A. Electricity

1. All temporary work shall be provided in conformity with the National Electric Code, State laws, and requirements of the power company
2. The Contractor shall be allowed to hook to existing electrical panel in building, for temporary power. The Contractor will not disrupt power at building. The Owner will only pay for cost of electricity.
3. The Contractor shall provide all temporary electrical panels.
4. The Contractor shall be responsible to fix any damages, caused by modifications for temporary services.

B. Lighting

1. The Contractor shall provide source of lighting.

C. Temporary Heat

1. The Contractor shall provide temporary heat and equipment in interior spaces:

- a. The Contractor shall not use electrical heating units if the Owner is supplying electrical power to the Contractor.
 - b. The Contractor shall be completely responsible for providing all equipment and labor required to comply with this section.
 - c. The Contractor shall utilize the services of a qualified Heating subcontractor for providing Temporary Heat. These services shall be paid for by the Contractor.
 - d. At no time shall any part of the building served by the boiler be allowed to be without heat if called upon by the building control system.
2. Temporary heating system work shall be performed under the direct supervision of individuals properly licensed to perform the necessary work.
 3. All temporary work shall be provided in conformity with all applicable codes, State laws, and requirements of the utility company.
 4. The Contractor shall pay the costs of all fuel required for temporary heating until Substantial Completion, unless specified otherwise.
 5. Utilizing the Permanent Heat Distribution System for Temporary Heat:
 - a. The Contractor may, with the approval of the Owner, elect to utilize the permanent heat distribution system for temporary heat.
 - b. If the permanent heat distribution system cannot be utilized or if work requires a shutdown of the existing system the Contractor shall make arrangements, acceptable to the Owner, to comply with this requirement at no additional cost to the Owner.
 - c. The Contractor shall furnish and pay the costs of any materials and equipment which are not part of the permanent heating system and which may be required to operate the permanent heat distribution system on a temporary basis.
 6. Unit heaters, if used, shall be of the smokeless type and be installed and operated in such a way that finished work will not be damaged. "Salamanders" shall not be used.
 7. Providing temporary heating service and equipment for exterior work:
 - a. Installation of weather protection and heating devices shall comply with all safety regulations including provisions for adequate ventilation and fire protection devices.
 - b. Unit heaters, if used, shall be of the smokeless type and be installed and operated in such a way that finished work will not be damaged. "Salamanders" shall not be used.

D. Water

1. The Contractor shall be allowed to hook to existing water in building, for temporary water supply. The Contractor will pay for cost of water usage for dust control and compaction [large amounts of water].

E. Sanitary Facilities

1. The Contractor shall provide their Sanitary Facilities.

F. Barriers

1. Provide as required to prevent public entry to construction areas, to provide for Owner's use of site, and to protect existing facilities and adjacent properties from damage from construction operations.

G. The Contractor will provide:

1. Storage Sheds for Tools, Materials, and Equipment: Weather tight, with adequate space for organized storage and access, and lighting for inspection of stored materials.
2. His/her own on-site telephone, if so required for the conduct of his/her business.
3. Protected storage, if necessary.
4. Temporary barricades to separate the Contract Site areas from the Owner's area or public area.

H. Protection and Restoration

1. The Contractor shall be responsible for all damages to furnishings, equipment, supplies, existing construction, including finished surfaces, caused by Work of Contract.
2. The Contractor shall be fully responsible for maintaining weather-tight integrity of the roofing system and wall systems, including permanent and temporary flashings, during the entire construction period.
3. The Contractor's responsibilities shall include the cost to repair damage to the existing building's structure, finishes and contents associated with the Contractor's failure to maintain the watertight integrity of the roofing system and wall system, whether permanent or temporary, at no additional cost to the Owner.
4. The Contractor shall protect paved areas and lawns around the Building from damage associated with the construction. Costs to repair damage to paved areas and lawns will be deducted from Contractor's final payment to cover Owner's expenses to repair damage. The Owner will determine if damages to lawns are minor or major.

I. Security

1. Provide security program and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, and theft. Coordinate with Owner's security program.

J. Water Control

Not Used

K. Cleaning during Construction

1. Throughout the construction period the Contractor shall be responsible for maintaining building and site areas affected by the Work in a standard of cleanliness.
 - a. Retain stored items in an orderly arrangement allowing maximum access, not impeding traffic or drainage, and providing protection of materials.
 - b. Completely remove all scrap, debris, waste material and other items not required for construction from the site at least once a week.
 - c. Provide adequate storage for all items awaiting removal from the job site, observing requirements for fire protection and protection of the ecology.
2. Conduct daily inspection, more often if necessary, to verify that requirements for cleanliness are being satisfied.
3. Provide required personnel, equipment and materials needed to maintain the specified standard of cleanliness.
4. Use only those cleaning materials and equipment that are compatible with the surface being cleaned, as recommended by the manufacturer of the material.

L. Removal

1. Unless otherwise specified, materials to be removed, including all components and accessories, become property of the Contractor and shall be promptly removed from the Contract Site and legally disposed of at Contractor's expense.
2. Remove temporary materials, equipment, services, and construction prior to Substantial Completion inspection.
3. Clean and repair damage caused by installation or use of temporary facilities. Restore existing facilities used during construction to specified, or to original, condition.
4. The Contractor shall be responsible for removing and disposing of solid wastes (including construction/demolition debris) per Section 01 35 43.

1.08 MATERIAL AND EQUIPMENT

A. Products

1. Products include material, equipment, and systems.
2. Comply with Specifications and referenced standards as minimum requirements.

3. Components required to be supplied in quantity within a Specification section shall be the same, and shall be interchangeable.
4. Do not use materials and equipment removed from existing structure, except as specifically required, or allowed, by Contract Documents.
5. ACBM (ASBESTOS CONTAINING BUILDING MAT'LS) NOT ALLOWED, materials containing asbestos in any manner or quantity are not allowed on this Project. If such materials are installed they shall be removed and replaced at no additional cost to the Owner.

B. Transportation and Handling

1. Transport products by methods to avoid product damage; deliver in undamaged condition in manufacturer's unopened containers or packaging, dry.
2. Provide equipment and personnel to handle products by methods to prevent soiling or damage.
3. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.

C. Storage and Protection

1. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; provide ventilation to avoid condensation.
2. Arrange storage to provide access for inspection. Periodically inspect to assure products are undamaged, and are maintained under required conditions.

D. Products List

1. Within 15 days after date of Owner-Contractor Agreement, submit complete list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.

E. Substitutions

1. Substitutions shall be submitted to Designer a minimum of 7 days prior to bid date for review. Any substitutions not submitted 7 days prior to bid date shall not be reviewed or considered.
2. Do not assume that "or Equal" or terms of similar meaning indicate automatic approval of substitute products.
3. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
4. Request constitutes a representation that the Contractor:

- a. Has investigated proposed product and determined that it meets or exceeds, in all respects, specified product.
 - b. Will provide the same warranty for substitution as for specified product.
 - c. Waives claims for additional costs, which may subsequently become apparent.
5. The DESIGNER will determine acceptability of proposed substitution, and will notify the Contractor of acceptance or rejection in writing within a reasonable time.

1.09 CONTRACT CLOSEOUT

A. Closeout Procedures

1. Submit Closeout Documentation to the Architect/Engineer 10 days prior to the Substantial Completion Date. The Architect/Engineer shall confirm that the Contractor has fulfilled the Contract Closeout Documentation Requirements 10 days prior to the Substantial Completion Date. The Contractor shall not submit for Final Application for Payment until the Architect/Engineer has notified the Owner that Contractor has fulfilled the Contract Closeout Documentation Requirements.
2. When the Owner considers the Work of this contract has reached Substantial Completion, the Contractor and Owner shall sign a Certificate of Substantial Completion (Attachment A). Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use. This Certificate of Substantial Completion will be prepared by the Architect/Engineer as stated in Specification 00 72 13, Section 37.4. When the Certificate of Substantial Completion has been signed by the Owner and the Contractor, the completed Certificate of Substantial Completion shall set the date for Substantial Completion of the work or a designated portion of the work.
3. When the Contractor considers the Work of this contract has reached final completion, the Contractor shall submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for OWNER's inspection. This written notification shall be submitted to the Owner 7 calendar days prior to the proposed inspection date. Per Specification 00 72 13, Section 36.4, the Contractor shall not call for final inspection of any portion of the Work that is not complete and permanently installed. The Contractor may be found liable for the expenses of individuals called to final inspection meetings prematurely.
4. In addition to submittals required by the conditions of the Contract, provide release of all liens, claims and submit final requisition.
5. The Contractor's failures to comply with Closeout Procedures, if the Closeout Documentation Requirements are not completed by the Substantial Completion Date.

The Owner reserves the right to recover the costs to complete the Closeout Documentation Requirements from the Schedule of Values item Closeout Documentation Line Item. The Owner reserves the right to hire an Architect/Engineer to complete the required Contract Closeout Documentation.

6. Liquidated Damages, the minimum liquidated damages for this project shall be applied as described under Section 00 72 13 General Conditions, paragraph 37.5. The minimum liquidated damages for this project is in accordance with Section 00 52 13, State of Maine, Bureau of General Services, Construction Contract, Article 2. The work to be performed under this contract shall be completed in accordance with paragraph 1.02. For each calendar day the project remains uncompleted **\$1,500.00 per day beyond the completion date.**

B. Final Cleaning

1. Execute prior to final inspection.
2. Clean site; sweep hard surfaced areas, rake clean other surfaces.
3. Remove waste and surplus materials, rubbish, and construction facilities from the Project and from the site. Owner will be responsible for cleaning after acceptance.

C. Project Record Documents

1. Store documents separate from those used for construction.
2. Keep documents current; do not permanently conceal any work until Owner has inspected and required information has been recorded.
3. At Contract closeout, submit documents with transmittal letter containing date, Project title, Contractor's name and address, list of documents, and signature of Contractor.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.01 FINAL CLEANING

- A. Execute final cleaning before final project assessment.
- B. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- C. Clean equipment and fixtures to sanitary condition with cleaning materials appropriate to surface and material being cleaned.

- D. Replace filters of operating equipment.
- E. Clean debris from roofs, gutters, downspouts, and drainage systems.
- F. Clean site; sweep paved areas, rake clean landscaped surfaces.
- G. Remove waste and surplus materials, rubbish, and construction facilities from site.

3.02 STARTING OF SYSTEMS

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Notify Architect/Engineer seven days before start-up of each item.
- C. Verify each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.
- D. Verify tests, meter readings, and specified electrical characteristics agree with those required by equipment or system manufacturer.
- E. Verify wiring and support components for equipment are complete and tested.
- F. Execute start-up under supervision of applicable manufacturer's representative in accordance with manufacturers' instructions.
- G. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation before start-up, and to supervise placing equipment or system in operation.
- H. Submit a written report stating the equipment or system has been properly installed and is functioning correctly.

3.03 DEMONSTRATION AND INSTRUCTIONS

- A. Demonstrate operation and maintenance of products to Owner's personnel two weeks before date of Substantial Completion.
- B. Use operation and maintenance manuals as basis for instruction. Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.
- C. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at equipment location.
- D. Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.

- E. Required instruction time for each item of equipment and system is specified in individual sections.

3.04 TESTING, ADJUSTING AND BALANCING

- A. The Contractor shall provide to the Owner one set of the copies of the test certification certificates that shall be provide to the State of Maine Fire Marshall's Office and or any other testing requirements that have been performed on the system.
- B. Owner will appoint and employ services of independent firm to perform testing, adjusting, and balancing. Contractor shall pay for services.
- C. Independent firm will perform services specified in Section 01 91 00.
- D. Reports will be submitted by independent firm to Architect/Engineer indicating observations and results of tests and indicating compliance or non-compliance with requirements of Contract Documents.

3.05 PROTECTING INSTALLED CONSTRUCTION

- A. Protect installed Work and provide special protection where specified in individual specification sections.
- B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- E. Prohibit traffic or storage upon waterproofed or roofed surfaces. When traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- F. Prohibit traffic from landscaped areas.

3.06 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
 - 1. Drawings.
 - 2. Specifications.
 - 3. Addenda.

4. Change Orders and other modifications to the Contract.
 5. Reviewed Shop Drawings, Product Data, and Samples.
 6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress, not less than weekly.
- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
1. Manufacturer's name and product model and number.
 2. Product substitutions or alternates used.
 3. Changes made by Addenda and modifications.
- F. Red-Line Drawings: Legibly mark each item to record actual construction including:
1. Measured depths of foundations in relation to finish main floor datum.
 2. Measured horizontal and vertical locations of underground utilities and an appurtenances, referenced to permanent surface improvements.
 3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 4. Field changes of dimension and detail.
 5. Details not on original Contract drawings.
- G. Submit Closeout Documentation to the Designer 10 days prior to the Substantial Completion Date. The Designer shall confirm that the Contractor has fulfilled the Contract Closeout Documentation Requirements 10 days prior to the Substantial Completion Date.

3.07 OPERATION AND MAINTENANCE DATA

A. Submittal Requirements:

1. Submit three (3) copies of data on 8-1/2 x 11-inch (A4) pages, bound in three (3) separate D side ring binders with durable plastic covers.

2. **Contractor shall provide the O&M Manual in electronic form on CD/DVD.** All sections of the electronic form of the O&M Manual shall be **searchable**, excluding drawings and warranties. Every effort should be made to have the “Technical Data” section searchable as well, with the understanding this may not be possible in some instances.
3. Prepare binder cover with printed title "OPERATION AND MAINTENANCE”, title of project, location, project number, and subject matter of binder when multiple binders are required. A spine label with same information should also be provided.
4. Subdivide each binder’s contents with permanent page dividers, logically organized, with tab titles clearly printed. Tabs should be organized and titled based on the Table of Contents.

B. Manual Submission

1. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect/Engineer will review draft and return one copy with comments.
2. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit documents within ten days after acceptance.
3. Submit one copy of completed volumes 15 days before final inspection. Draft copy be reviewed and returned after final inspection, with Architect/Engineer comments. Revise content of document sets as required before final submission.
4. Submit two sets of revised final volumes in final form within 10 days after Receipt from Owner.

C. Contents

1. Project Summary: The first page in binder should include a paragraph describing the Project followed by a Contact List. The Contact List is to include DFE Project Manager name along with company name, contact name, address, and telephone number for the Architect/Engineer, Contractor, Subcontractors, and major equipment suppliers.
2. Drawings: Provide reduced copies of each plan printed on 11 x 17 pages and insert them after the Project Summary page. Also provide a CD/DVD in the back of each binder containing Record Drawing files in both Adobe PDF and AutoCAD Release 2009 format. AutoCAD drawings shall be delivered as stand-alone without X-references. If Drawing originally had X-references, Bind them using the Insert option and do not explode inserted block. The Architect shall also provide the AutoCAD Plot Style (CTB file) used for the drawings along with any and all images used within the drawings.

3. Table of Contents: Provide a Table of Contents(TOC) for the binder and place behind the reduced plans. If multiple binders are necessary, include a TOC for the entire submission, then a TOC for the individual binder. TOC should be a listing of all products or systems and the 6 required components below each.
4. Product/System Components: Provide the following information for each product and/or system. Provide additional requirements as specified in individual product specification sections.
 - a. **OVERVIEW and INFORMATION**:
 - i. Equipment Register: equipment description, model number(s), date of installation, installer w/contact info, supplier w/contact info, manufacturer w/contact info, warranty date, warranty details, estimated life / useful life.
 - ii. Description of Complete Installation: A general description of the installation to provide a general understanding of the equipment and its operation.
 - iii. Specific System Description: A technical description of each system of the installation, written to ensure it can be clearly understood by persons not familiar with the installation.
 - iv. Performance Data: Technically description of the mode of operation of each system provided. This section provides functionality details.
 - v. When applicable, include charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
 - b. **OPERATIONS**:
 - i. Manufacturers' technical literature as appropriate. For other than common accessories, where no manufacturer literature is available, provide a precise and concise description of the operation procedure in plain English.
 - ii. Safe start-up, break-in, routine operation, shut-down, and emergency operations for the equipment installed including a logical step-by-step sequence of instructions for each procedure. Include summer, winter and special operating instructions.
 - iii. List of all limiting conditions for equipment.
 - iv. Control Sequence and flow diagrams for the system installed.
 - v. A legend for color-coded services. A legend of the symbols used on the drawings, unless included on the drawings.
 - vi. Schedules of the parameter settings of each protective device, including fixed and adjustable circuit breakers, protective relays, adjustable photoelectric switches, pressure switches, and any other control and monitoring device, as established during commissioning and maintenance.
 - c. **MAINTENANCE**
 - i. Emergency procedures, including telephone numbers for emergency services, and procedures for fault-finding.
 - ii. Manufacturers' technical literature, as appropriate. Include original manufacturers' parts list, illustrations, assembly drawings, and diagrams required for maintenance.
 - iii. Detailed recommendations for the frequency of performance of routine maintenance tasks

- iv. List of procedures and tasks associated with preventative (routine) maintenance.
 - v. Procedures for safe trouble shooting, disassembly, repair and reassembly, cleaning, alignment, inspection and adjustment, including a logical step-by-step sequence of instructions for each procedure.
 - vi. Include summer, winter and special maintenance instructions.
 - vii. Maintenance Schedule: schedule of the frequency of the required or recommended maintenance, testing and inspection for each type of equipment. The schedule is to include weekly and monthly attendance times.
 - viii. Installation and dismantling instructions: Instructions for the proper installation and dismantling of the equipment.
 - ix. Spares and Consumables:
 1. Schedule of spares (including bearings) with an expected operating life less than 40,000 hours. Include expected replacement frequency, item label manufacturer name, address, and telephone number, catalogue number name and address of local distributor.
 2. Schedule of Consumable Items (oil, grease, belts, bearings) to be used during servicing.
 3. Furnish spare parts, consumable items, and extra products in quantities specified in individual specification sections and/or as recommended by manufacturer or requested by Owner. Deliver to project site and place in location as directed by Owner; *obtain receipt before final payment.*
- d. TECHNICAL DATA
- i. Manufacturers' technical literature assembled specifically for the project and **excluding irrelevant matter.**
 - ii. Each product data sheet marked to clearly identify the specific products and components used in the installation and the data applicable. Additional instructions and illustrations, as required, to identify and changes to the manufacturers' data or to illustrate the function of each component in the installation.
 - iii. Provide performance curves and engineering data
 - iv. Include control diagrams by controls manufacturer as installed.
 - v. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed.
 - vi. Shop drawings
- e. WARRANTIES
- i. Provide originals of Manufacturers' warranties and bonds executed in duplicate by responsible subcontractors, suppliers, and manufacturers, *within ten days after completion of applicable item of work*
 - ii. All Guarantees
 - iii. Certificates of compliance for all electrical and plumbing works, where applicable.
 - iv. If installation is not by the manufacturer, and product warranty is conditional on the manufacturer's approval of the installer, submit the manufacturer's approval of the installing firm.
- f. COMMISSIONING REPORTS

- i. Air and water balance reports
- ii. Include test and balancing reports as specified in Section 01 91 00.
- iii. Records of test results
- iv. Records of Commissioning Data

3.08 PRODUCT WARRANTIES AND PRODUCT BONDS

- A. Execute and assemble transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers.
- B. Verify documents are in proper form, contain full information, and are notarized.
- C. Co-execute submittals when required.
- D. Submit before final Application for Payment.
- E. Time of Submittals:
 - 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within ten days after acceptance.
 - 2. Make other submittals within ten days after Date of Substantial Completion, before final Application for Payment.
 - 3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within ten days after acceptance, listing date of acceptance as beginning of warranty or bond period.

END OF SECTION 01 00 00

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE (Read instructions on page two prior to initiating this form.)					DATE:		TRANSMITTAL NO			
SECTION I – REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor.)										
TO:			FROM:			DFE PROJECT NUMBER		CHECK ONE: <input type="checkbox"/> THIS IS A NEW SUBMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL NO. _____		
SPECIFICATION SEC NO. (Cover only one section with each transmittal)			PROJECT TITLE AND LOCATION:							
ITEM NO.	DESCRIPTION OF ITEM SUBMITTED (Type size, model number/etc.)	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO.	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTR- ACTOR USE CODE	VARIATION (See instr. #6)	FOR DFE USE CODE		
				SPEC PARA NO.	DRAWING SHEET NO.					
a.	b.	c.	d.	e.	f.	g.	h.	i.		
							<input type="checkbox"/>			
							<input type="checkbox"/>			
							<input type="checkbox"/>			
							<input type="checkbox"/>			
							<input type="checkbox"/>			
							<input type="checkbox"/>			
							<input type="checkbox"/>			
REMARKS					I certify that the above submitted items have been reviewed in detail and are correct and in strict compliance with the contract drawings and specifications except as otherwise stated. _____ SIGNATURE OF THE CONTRACTOR NAME:					
SECTION II – APPROVAL ACTION										
ENCLOSURES RETURNED (List by Item No.)			NAME, TITLE OF APPROVING AUTHORITY				DATE			

INSTRUCTIONS

1. Section I will be initiated by the Contractor in the required number of copies.
2. Each transmittal shall be numbered consecutively in the space provided for "Transmittal No.". This number, in addition to the DFE Project Number, will form a serial number for identifying each submittal. For example: 23SR10-470-D-T1
3. For new submittals or resubmittals mark the appropriate box; on resubmittals, insert transmittal number of last submission as well as the new submittal number.
4. Submittals requiring expeditious handling will be submitted on a separate form.
5. A separate transmittal form will be used for submittals under separate sections of the specifications.
6. A check shall be placed in the "Variation" column (Section I, Column h) when a submittal is not in accordance with the plans and specifications. Also, a written statement to that effect shall be included in the space provided for "Remarks".
7. The form is a self-transmittal, i.e. letter of transmittal is not required.
8. When a sample of material or Manufacturer's Certificate of Compliance is transmitted, indicate "Sample" or "Certificate" in Section I, Column c.
9. Directorate of Facilities Engineering approving authority will assign action codes as indicated below in space provided in Section I, Column i to each item submitted. In addition, they will ensure enclosures are indicated and attached to the form prior to return to the Contractor. The Contractor will assign action codes as indicated below in Section I, Column g to each item submitted.

THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS SUBMITTED

A – Approved as submitted

B – Approved, except as noted on drawings

C – Approved, except as noted on drawings.

Refer to attached sheet resubmission required.

D – Will be returned by separate correspondence.

E – Disapproved (See Attached)

F – Receipt acknowledged.

FX – Receipt acknowledged, does not comply as noted with contract requirements.

G – Other (Specify)

10. Approval of items does not relieve the Contractor from complying with all the requirements of the contract plans and specifications.

Attachment A
Certificate of Substantial Completion

Contractor: _____ Project: _____

Description of Work Being Accepted:

This Certificate of Substantial Completion is for all/portion of the Contract.

We, the DFE Project Manager and General Contractor, certify that:

- This facility, or the integral parts of this facility noted above, has/have been substantially completed according to the Contract Documents and all modifications to the same, as of _____ (date). The contractor and manufacturer's warranties shall be effective as of the date of substantial completion.
- All remaining work is as noted on the attached list(s).
- Contractor is responsible for correcting any deficiencies discovered during Commissioning (If Applicable) that are deemed by the Commissioning Agent to be a result of failure to adhere to plans and specifications (to include change orders).
- The Owner is responsible for correcting any deficiencies discovered during Commissioning (If Applicable) that are deemed by the Commissioning Agent to be outside the scope of work of the contract or not the responsibility of the Contractor.
- The contractor shall complete all work and submittals as required by the Contract Documents.

Printed Name (DFE Project Manager)	SIGNATURE	DATE
------------------------------------	-----------	------

Printed Name (General Contractor)	SIGNATURE	DATE
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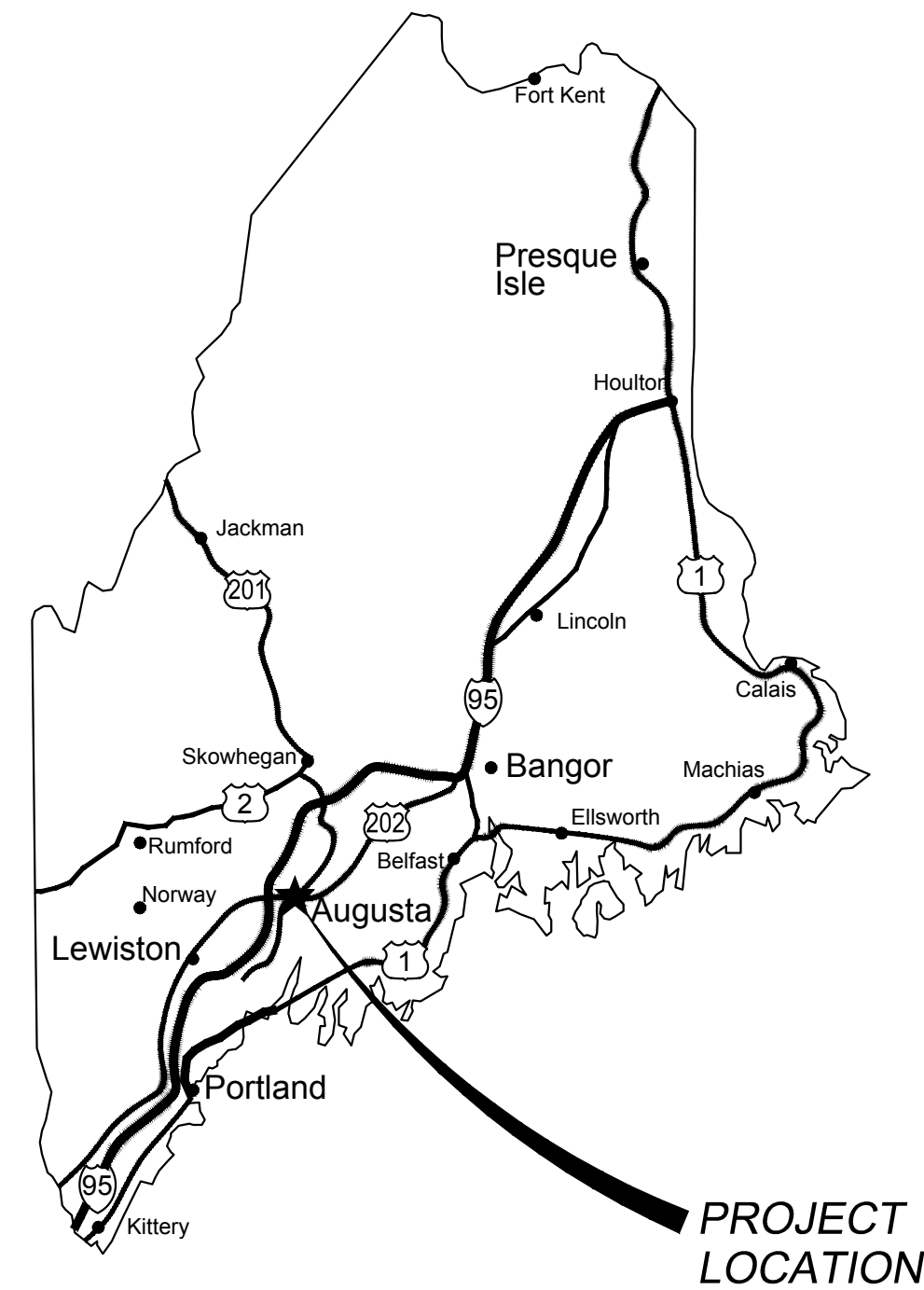
MAINE ARMY NATIONAL GUARD CAMP KEYES REUTILIZATION PROJECT BUILDING NO. 8 RENOVATIONS

BREM PROJECT NO: PT 2916
DFE PROJECT NO: 23SR18-456-D

DIRECTORATE OF FACILITIES ENGINEERING
CAMP KEYES - AUGUSTA, MAINE

DECEMBER 28, 2018

LOCATION MAP
N.T.S.



ISSUED FOR BID



PLAN REVISIONS		Rev#	Description	Date	Appr.
1	General Revisions	1/28/19			

DESIGNED BY: MAD	DATE: 12/28/2018	SCALE: None
DRAWN BY: MAD	DFE PROJECT NO: 23SR18-456-D	
CHECKED BY: MAD		

STATE OF MAINE
DEPARTMENT OF DEFENSE, VETERANS
AND EMERGENCY MANAGEMENT
Cordjia Capital Projects Group
16 Tannery Lane, Suite 23
Camden, Maine, 04844
207-236-9970 / mdaigle@cordjia.com

CAMP KEYES REUTILIZATION PROJECT
CAMP KEYES, AUGUSTA, MAINE
BUILDING NO. 8 RENOVATIONS
COVER SHEET

PLAN PROGRESS	
<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
G-000
SHEET: 1 OF 33

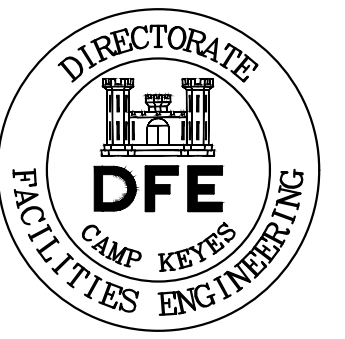
MAINE ARMY NATIONAL GUARD CAMP KEYES REUTILIZATION PROJECT BUILDING NO. 8 RENOVATIONS

BREM PROJECT NO: PT 2916
DFE PROJECT NO: 23SR18-456-D

DIRECTORATE OF FACILITIES ENGINEERING
CAMP KEYES - AUGUSTA, MAINE

ISSUED FOR BID
DECEMBER 28, 2018

SHEET INDEX		
DRAWING	TITLE	SHEET NUMBER
G-000	COVER SHEET	1 OF 33
G-001	TITLE SHEET	2 OF 33
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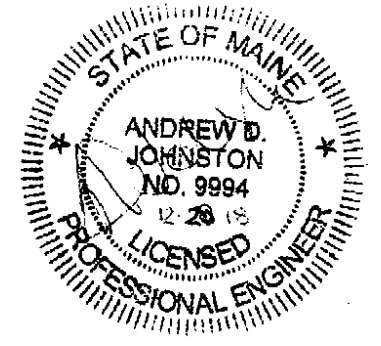
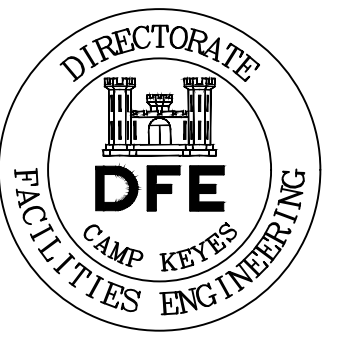
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SCALE: None
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CAMP KEYES REUTILIZATION PROJECT
CAMP KEYES, AUGUSTA, MAINE
BUILDING NO. 8 RENOVATIONS
TITLE SHEET

PLAN PROGRESS
 DRAFT
 35% REVIEW
 65% REVIEW
 95% REVIEW
 FINAL REVIEW
 FOR BIDDING
 ISSUED FOR CONSTRUCTION
 RECORD DRAWINGS

SHEET ID:
G-001
SHEET: 2 OF 33



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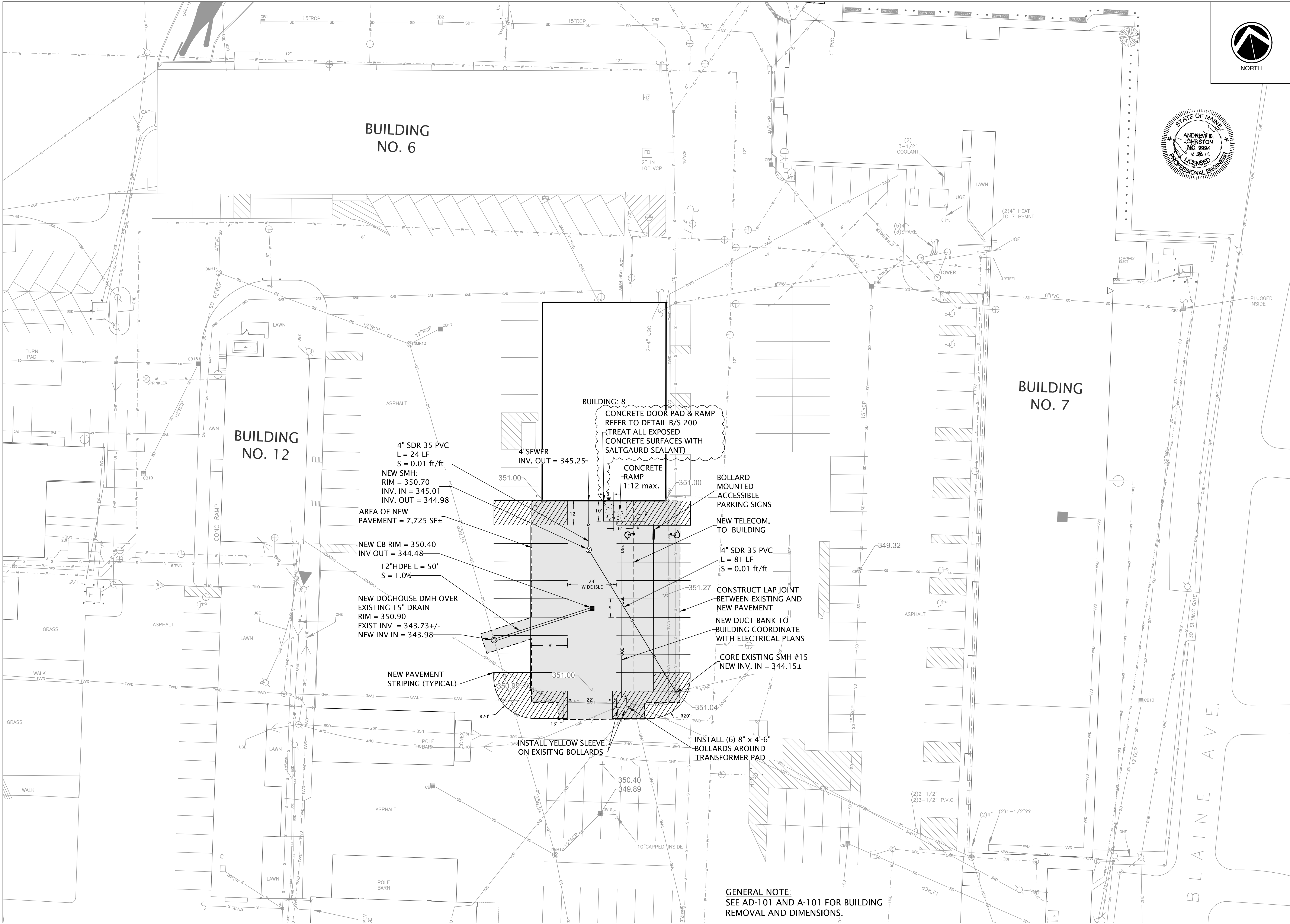
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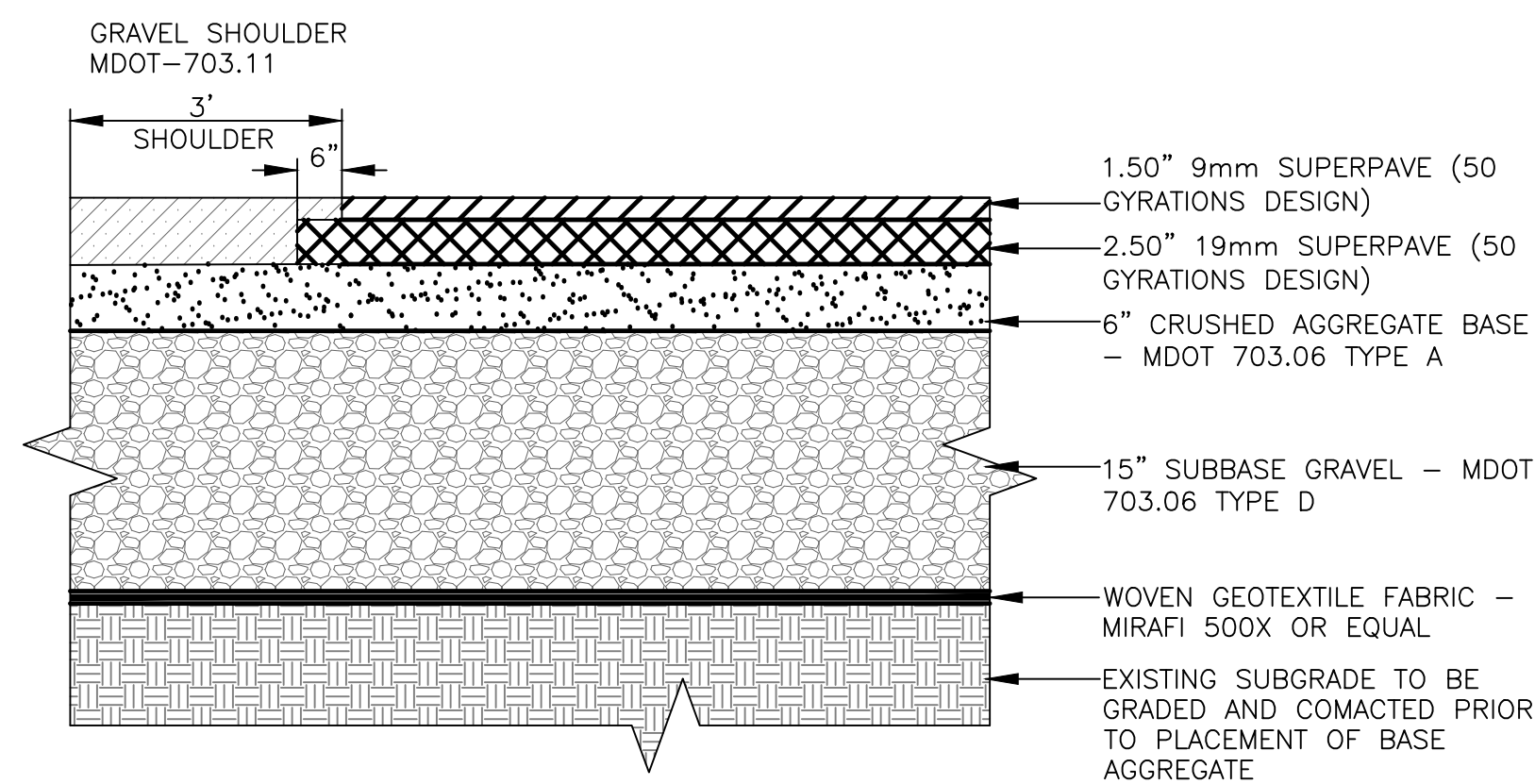
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CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING NO. 8 RENOVATIONS
 NEW PARKING EXPANSION SITE PLAN

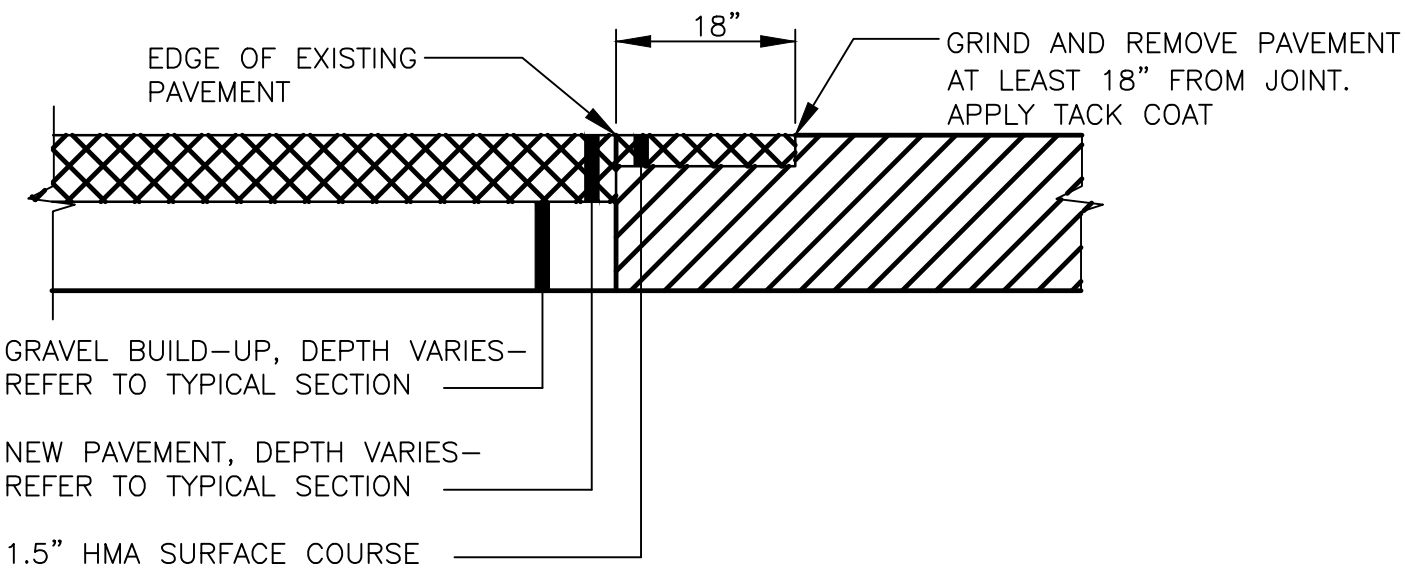
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SHEET ID:
 C-101
 SHEET: 6 OF 33

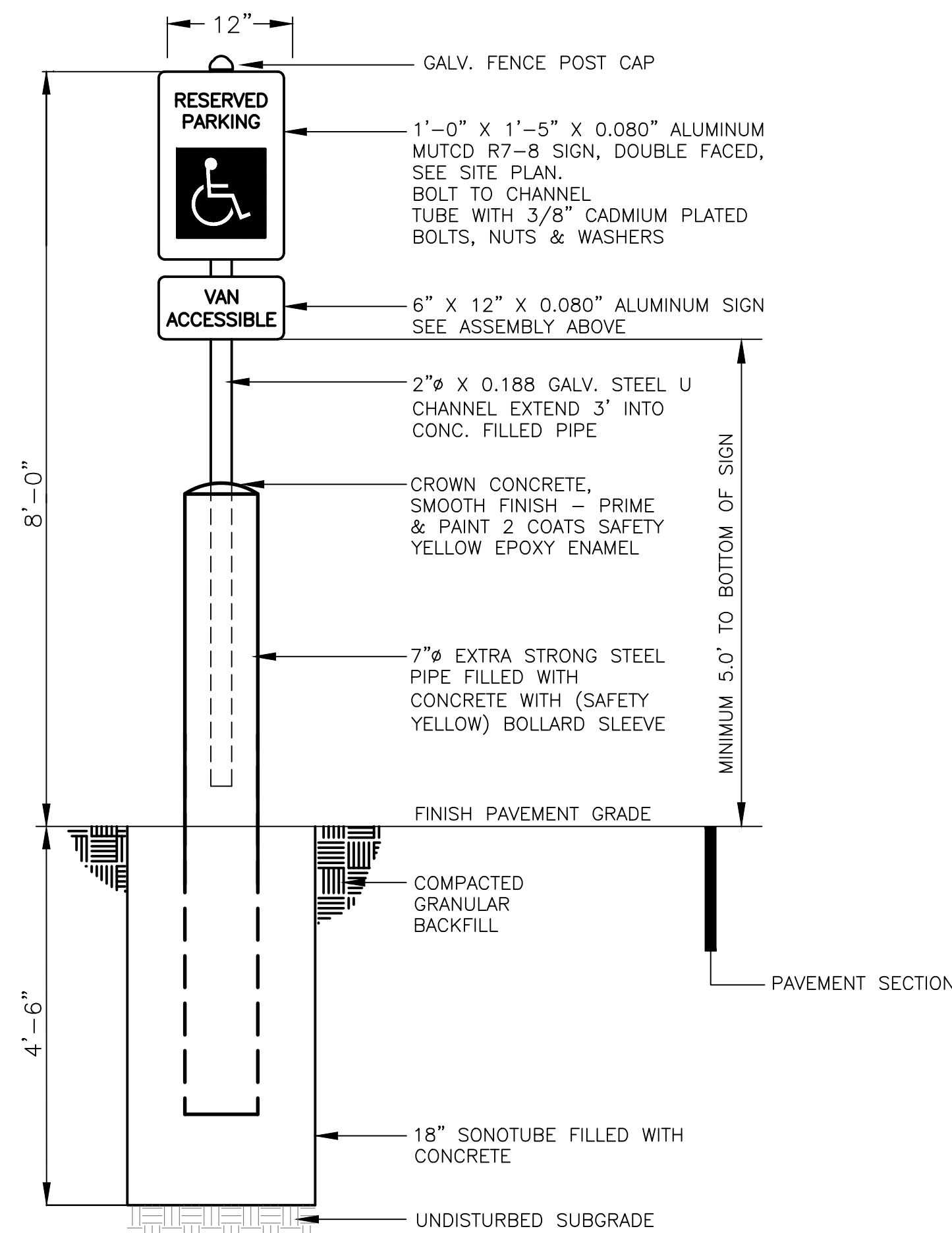




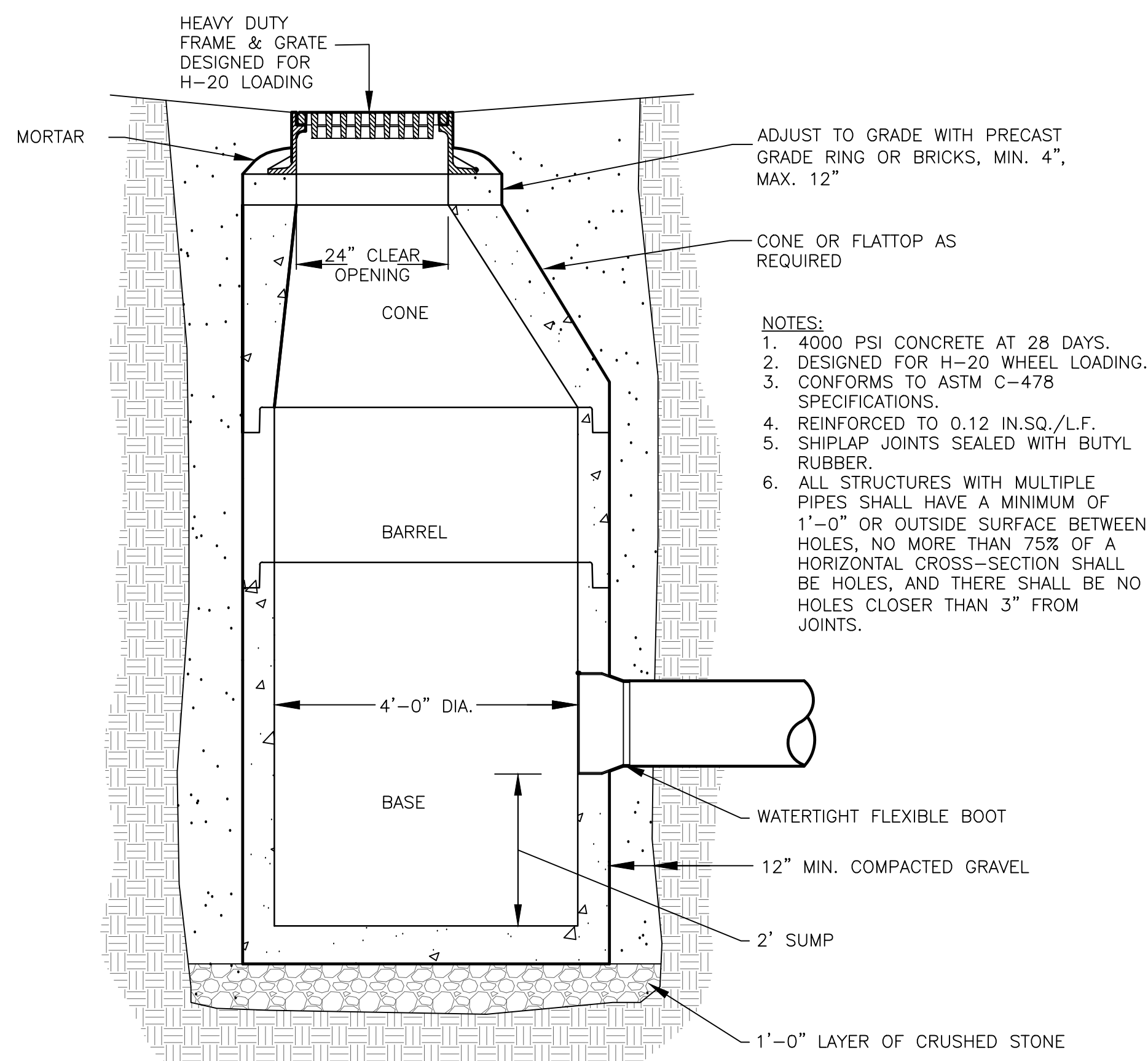
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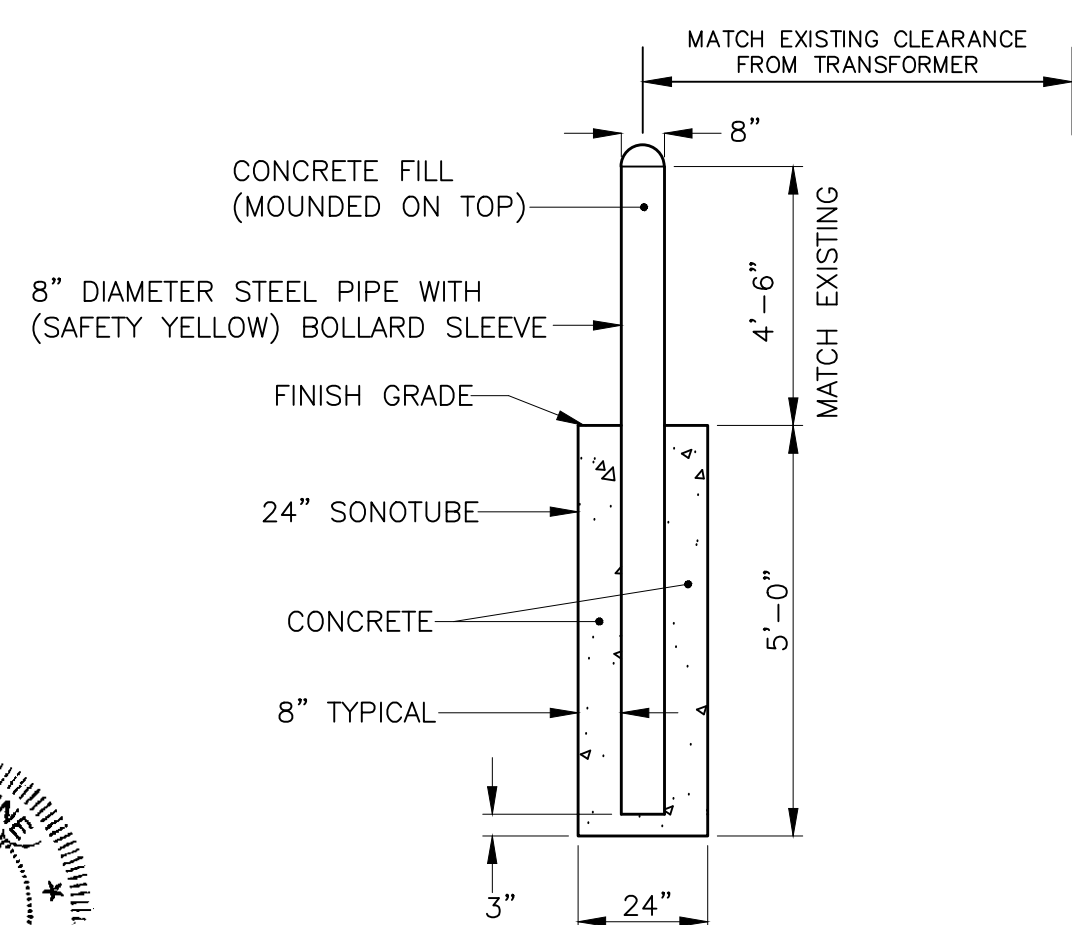
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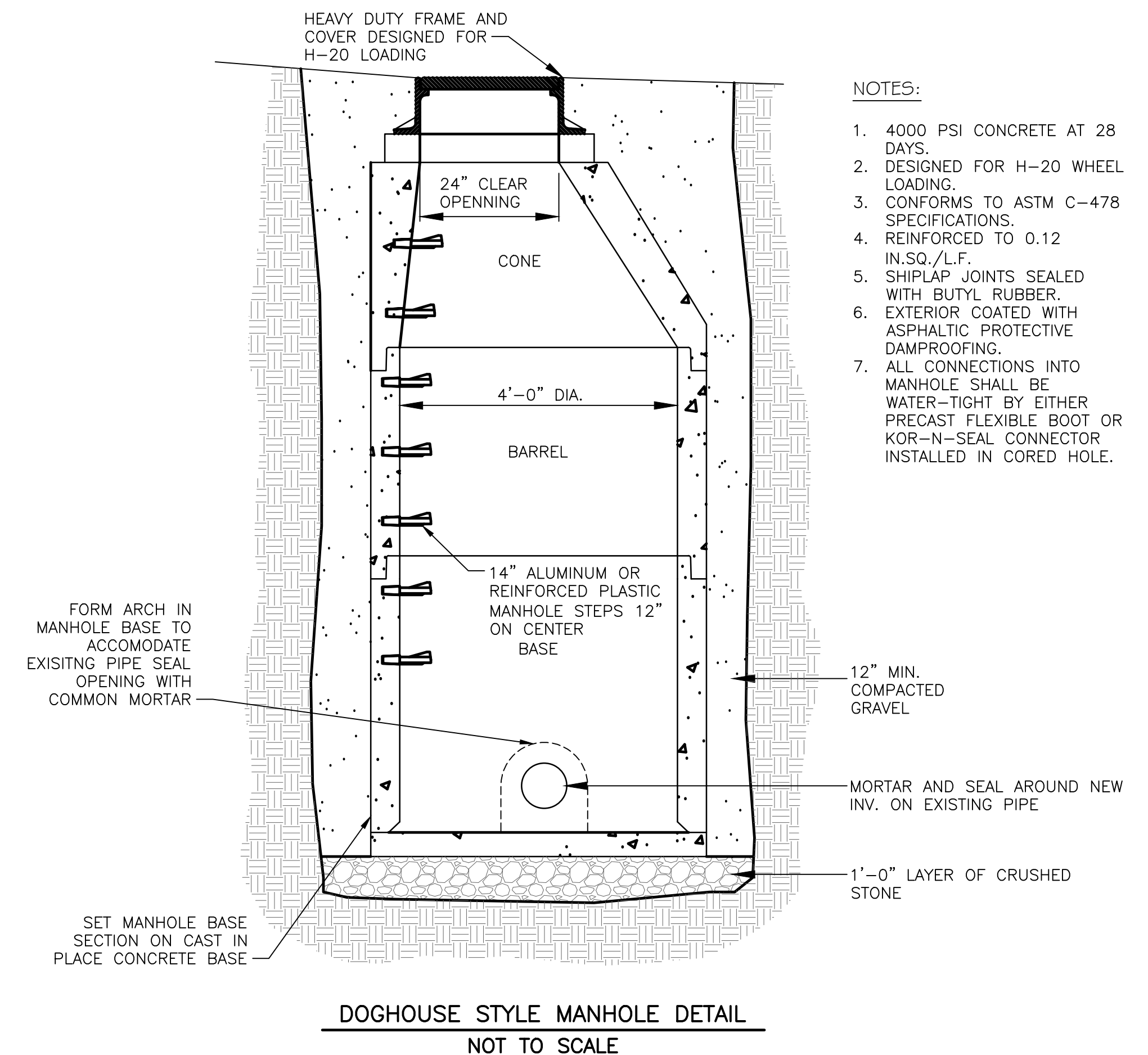
BARRIER FREE PARKING SIGN DETAIL
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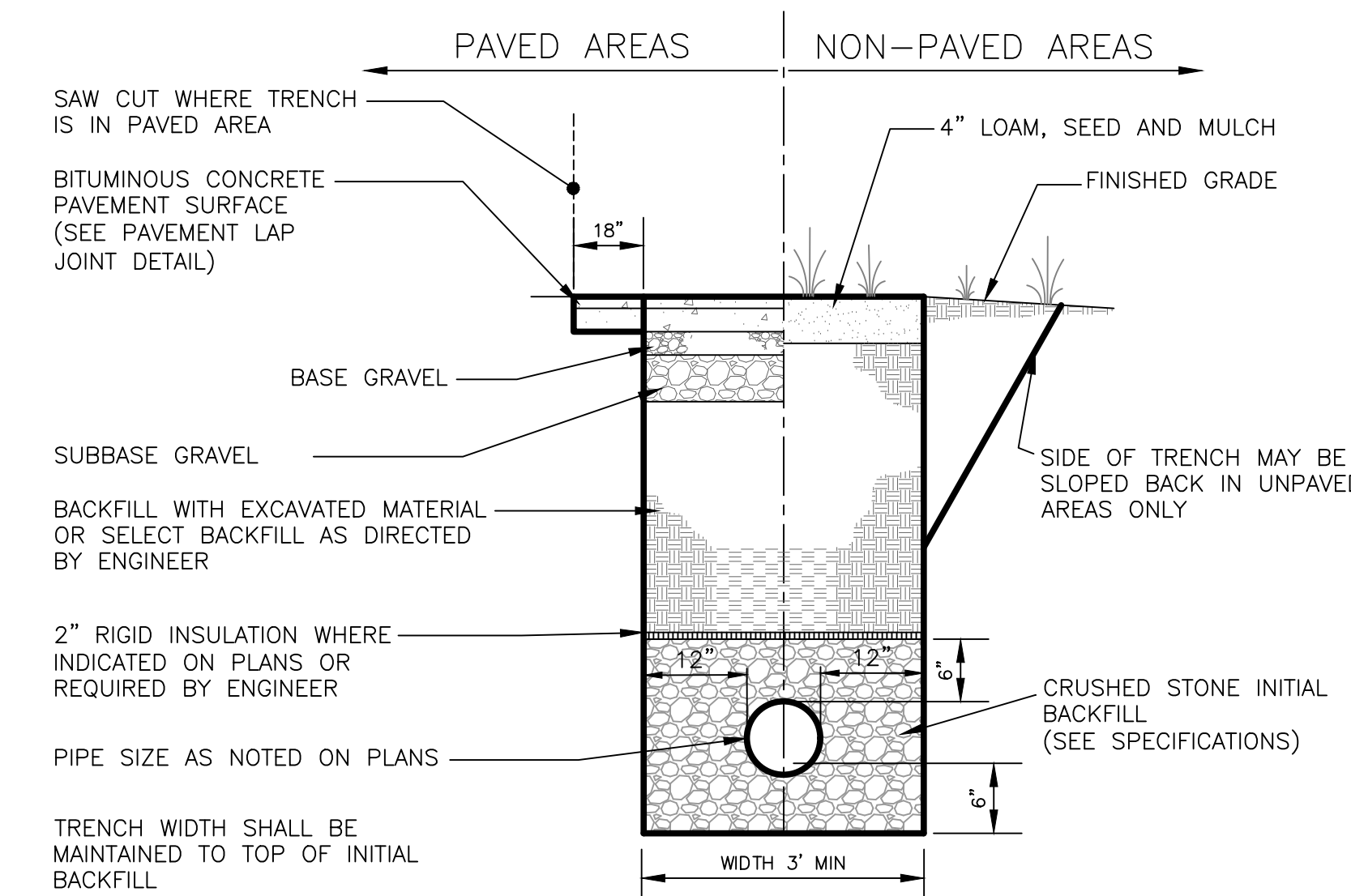
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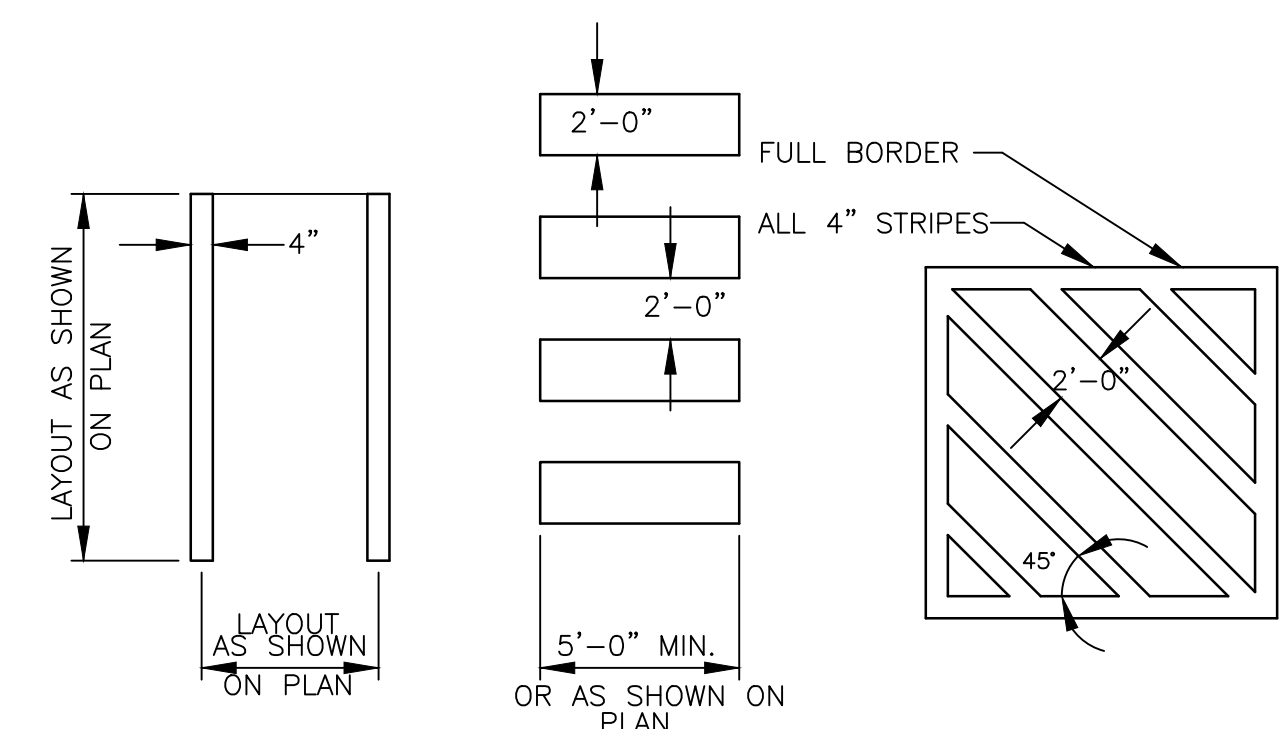
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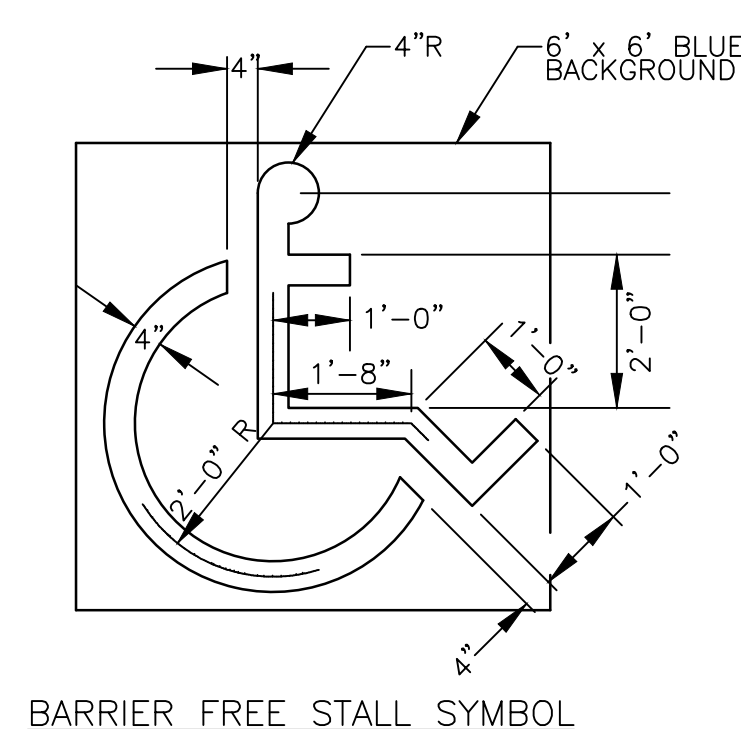
DOGHOUSE STYLE MANHOLE DETAIL
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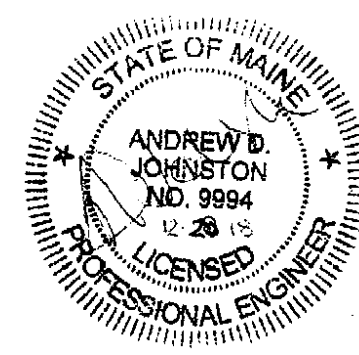
TYPICAL SEWER AND STORM DRAIN TRENCH DETAIL
NOT TO SCALE



PAVEMENT MARKING DETAIL
NOT TO SCALE



BARRIER FREE STALL SYMBOL



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CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING NO. 8 RENOVATIONS

SITE CIVIL DETAILS

PLAN PROGRESS

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<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
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<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
C-300
 SHEET: 7 OF 33

STRUCTURAL GENERAL NOTES

RENOVATION TO EXISTING BUILDING
CAMP KEYES - BUILDING 8
AUGUSTA, ME

DESIGN LOADS: INTERNATIONAL BUILDING CODE; IBC 2015 EDITION, EXCEPT AS NOTED
OCCUPANCY CATEGORY, TABLE 1604.5 II STANDARD

GROUND SNOW,	PG	70 PSF	(USED FOR DRIFTING CALCULATIONS)
FLAT ROOF SNOW,	PF	50 PSF	
SNOW EXPOSURE FACTOR	CE	TABLE 1608.3.1	1.0
SNOW IMPORTANCE FACTOR,	IS	TABLE 1604.5	1.0
SNOW THERMAL FACTOR,	CT	TABLE 1608.3.2	1.0

FLOORS:		100 PSF
CORRIDORS, STAIRS, & PUBLIC SPACES		
COLD STORAGE (ATTIC)		60 PSF

LATERAL WIND	IBC 1603.1.4, ASCE 7-10 3 SECOND GUST VELOCITY	ANALYTIC METHOD 115 MPH
	IMPORTANCE FACTOR	1.0
	BUILDING CATEGORY AND INTERNAL PRESSURE COEFFICIENT	
	IBC 1609.2, ASCE FIGURE 6-5	ENCLOSED
	GCPI=0.18	
	EXPOSURE	C
	COMPONENTS AND CLADDING PRESSURES	DP 35PSF UNO.
	ALSO SEE ARCH.	

SEISMIC	IMPORTANCE FACTOR	1.0
	SPECTRAL RESPONSE	ACCELERATION
	SHORT PERIOD	S_s 0.230 G
	0.245 G	
	ONE SECOND	S_1 0.079 G
	$S_0.126$ G	
	SOILS SITE CLASS	TABLE 1615.1.1 D
	DESIGN CATEGORY	TABLE 1616.3B

REINFORCED CONCRETE:
WE ENCOURAGE THE USE OF BLAST FURNACE SLAG.
DESIGN IS BASED ON "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"(ACI 318). CONCRETE WORK SHALL CONFORM TO "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 3019).
STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

INTENDED USE	F'c, PSI (28 DAY)	MAX. W/C RATIO	MAXIMUM AGGREGATE	SLUMP (INCHES)	ENTRAINED AIR PERCENT ±1.5%	CEMENT TYPE	ADMIXTURES, COMMENTS
FOOTINGS	3,500	.6	3/4" STONE	4	---	I/II	
WALLS	4,000	.45	3/4" STONE	4	6%	I/II	
STRUCT. SLAB ON DECK	4,000	.5	3/4" STONE	4	---	I/II	
FORMED STRUCT. SLAB	4,000	.45	3/4" STONE	4	3%	I/II	
EXT. SLAB ON GRADE	4,000	.45	3/4" STONE	4	6%	I/II	
INT. SLAB ON GRADE	3,500	.5	3/4" STONE	4	---	I/II	FIBERMESH, REINF. PER PLAN
BEAMS, COLUMNS	4,000	.45	3/4" STONE	4	---	I/II	

DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315).
REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

EXCEPT TIES OR BARS SHOWN TO BE FIELD-BENT, WHICH SHALL BE GRADE 40.
EPOXY COATED REINFORCING BARS SHALL CONFORM TO ASTM 775.
ZINC COATED (GALVANIZED) REINFORCING BARS SHALL CONFORM TO ASTM 767.
BARS TO BE WELDED SHALL CONFORM TO ASTM 706.
AT SPICES, LAP BARS 50 DIAMETERS UNLESS NOTED OTHERWISE.
AT CORNERS AND INTERSECTIONS, MAKE HORIZONTAL BARS CONTINUOUS OR PROVIDE MATCHING CORNER BARS.
AROUND OPENINGS IN WALLS AND SLABS, PROVIDE 2-#5, EXTENDING 2'-0" BEYOND EDGE OF OPENING.
IN CONTINUOUS MEMBERS, SPLICE TOP BARS AT MID-SPAN AND SPLICE BOTTOM BARS OVER SUPPORTS.
PROVIDE INTERMITTENT SHEAR KEYS AT ALL CONSTRUCTION JOINTS AND ELSEWHERE AS SHOWN ON THE DRAWINGS.
EXCEPT AS NOTED ON THE DRAWINGS, CONCRETE PROTECTION FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

- a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
 - b. EXPOSED TO EARTH OR WEATHER:
 - #6 THROUGH #18 BARS 2"
 - #5 BAR, W31 OR D31 WIRE, AND SMALLER 1-1/2"
 - c. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - SLABS, WALLS, JOISTS: #11 BAR AND SMALLER 3/4"
 - BEAMS, COLUMNS:
 - PRIMARY REINFORCEMENT 1-1/2"
 - STIRRUPS, TIES, SPIRALS 1-1/2"
- FIBERMESH ADMIXTURE SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS AS MANUFACTURED BY FIBREMESH CO. PER ASTM C-1116 TYPE 111 4.1.3 AND ASTM C-1116 PERFORMANCE LEVEL ONE, 1.5 LBS PER CUBIC YARD OF CONCRETE.
ANCHOR BOLTS AND RODS FOR BEAM AND COLUMN-BEARING PLATES SHALL BE PLACED WITH SETTING TEMPLATES. ANCHOR BOLTS AND RODS SHALL NOT BE WET-SET AFTER CASTING CONCRETE.
PERMANENT CORRUGATED STEEL FORMS FOR CONCRETE FLOOR SLABS SHALL BE MANUFACTURED AND ERECTED ACCORDING TO THE "SPECIFICATIONS AND CODE OF STANDARD PRACTICE" OF THE STEEL DECK INSTITUTE.
ALL CONCRETE WORK IS SUBJECT TO INSPECTION BY A QUALIFIED SPECIAL INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH IBC SECTION 1704.4.

PLANT FABRICATED WOOD FRAMING:
BEAMS NOTED AS LVL ON PLAN SHALL BE 1-3/4" WIDE LAMINATED VENEER LUMBER BEAMS OF THE DEPTH NOTED ON PLAN.
SHALL BE PLANT-FABRICATED AND MANUFACTURED BY I LEVEL, SHALL HAVE THE FOLLOWING MINIMUM ALLOWABLE DESIGN STRESSES:
Fb = 2600 psi Fv = 285 psi Fc(⊥) = 2460 psi Fc(∥) = 750 psi E = 1900 ksi

STRUCTURAL WOOD FRAMING:
IN-GRADE BASE VALUES HAVE BEEN USED FOR DESIGN.
2X FRAMING SHALL BE SPRUCE-PINE-FIR S4S NO. 2 AND BETTER UNLESS NOTED.
ALL LUMBER SHALL BE 19% MAXIMUM MOISTURE CONTENT, UNLESS NOTED.
SOLID TIMBER BEAMS AND POSTS SHALL BE DOUGLAS FIR-LARCH NO. 1.
STUDS SHALL BE SPRUCE-PINE-FIR S4S NO. 2 AND BETTER.
TOP AND BOTTOM PLATES SHALL BE SPRUCE-PINE-FIR S4S NO. 2 AND BETTER.
WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE-TREATED SPRUCE-PINE-FIR S4S NO. 2 OR SOUTHERN YELLOW PINE.
ALL FASTENERS IN PRESSURE-TREATED WOOD SHALL MEET ICC AC257 APPROVAL UNLESS ALL FASTENERS ARE HOT-DIP GALVANIZED OR STAINLESS STEEL.
CONVENTIONAL LIGHT FRAMING SHALL COMPLY WITH IBC SECTION 2308.
EXCEPT AS NOTED OTHERWISE, MINIMUM NAILING SHALL BE PROVIDED AS SPECIFIED IN IBC TABLE 2304.10.1 "FASTENING SCHEDULE."
ALL PLYWOOD AND ORIENTED STRAND BOARD (OSB) SHEATHING SHALL BE ENGINEERED GRADES WITH APA GRADE STAMP INDICATING APPROPRIATE MAXIMUM SPACING OF SUPPORTS.
FLOOR SHEATHING: NOMINAL 3/4", APA STURD-I-FLOOR 24" TONGUE & GROOVE GLUED AND NAILED.
ROOF SHEATHING: MINIMUM 5/8" CDX PLYWOOD, OR 5/8" OSB, APA 32/16, NAILED.
WALL SHEATHING: 1/2" CDX PLYWOOD OR 7/16" OSB, APA 24/16, BLOCKED AND NAILED.
NAIL WALL SHEATHING WITH 8D COMMONS AT 4" O.C. AT PANEL EDGES, AND 12" O.C. AT INTERMEDIATE FRAMING EXCEPT AS NOTED.
SHEATH ALL EXTERIOR WALLS. SHEATH INTERIOR WALLS AS SHOWN ON THE DRAWINGS. BLOCK AND NAIL ALL SHEATHING PANEL EDGES BETWEEN STUDS.
SHEATHING SHALL BE CONTINUOUS FROM BOTTOM PLATE TO TOP PLATE. CUT IN "L" AND "T" SHAPES AROUND OPENINGS. LAP SHEATHING OVER RIM JOISTS MIN. 4" AT ALL FLOORS TO TIE UPPER AND LOWER STUD WALLS TOGETHER.
MINIMUM HEIGHT OF SHEATHING PANELS SHALL BE 16" TO ASSURE THAT PLATES ARE TIED TO STUDS.
MINIMUM 3-8D PER STUD AND NAIL PLATES WITH "EDGE NAIL" SPACING.
SOLE PLATE AT ALL PERIMETER WALLS AND AT DESIGNATED SHEAR WALLS SHALL BE NAILED AS FOR BRACED PANELS WITH 3-16D X 3 1/2" LONG BOX NAILS (COATED OR DEFORMED SHANK) PER 16". 12D NAILS ARE NOT ACCEPTABLE.
PROVIDE SOLID BLOCKING BETWEEN JOISTS UNDER JAMB STUDS OF OPENINGS.
PRE-ENGINEERED, PREFABRICATED TRUSSES SHALL BE DESIGNED FOR THE FABRICATOR BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONSTRUCTION, AND SHALL COMPLY WITH CODE REQUIREMENTS.
TRUSS TO TRUSS CONNECTIONS SPECIFIED SHALL BE BY TRUSS SUPPLIER, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
LOWER CHORD OF GABLE END TRUSSES SHALL BE ANCHORED TO WALL PLATE WITH FRAMING ANCHORS AT 4'-0" SPACING AND LATERALLY BRACED TO ROOF FRAMING AT 8'-0" SPACING.
TRUSS SUPPLIER SHALL SPECIFY ALL FLOOR AND ROOF TRUSS BRACING AND BRIDGING.
ALL ROOF RAFTERS, JOISTS, TRUSSES, AND BEAMS SHALL BE ANCHORED TO SUPPORTS WITH METAL FRAMING ANCHORS.
LIGHT GAGE FRAMING ANCHORS SHOWN OR REQUIRED, SHALL BE SIMPSON "STRONG TIE" OR EQUAL CODE APPROVED CONNECTORS AND INSTALLED WITH THE NUMBER AND TYPE OF NAILS RECOMMENDED BY THE MANUFACTURER TO DEVELOP THE RATED CAPACITY.
NOTE THAT HEAVY-DUTY HANGERS AND SKEWED HANGERS MAY NOT BE STOCKED LOCALLY AND REQUIRE SPECIAL ORDER FROM THE FACTORY.
ALL BEAMS AND TRUSSES SHALL BE BRACED AGAINST ROTATION AT POINTS OF BEARING.
UNLESS OTHERWISE INDICATED, INSTALL TWO LENGTHS OF SOLID BLOCKING X JOIST DEPTH X 12 INCHES LONG IN FLOOR FRAMING UNDER COLUMN LOADS. COLUMNS MUST HAVE A CONTINUOUS LOAD PATH TO FOUNDATION.
LEAD HOLES FOR LAG SCREWS SHALL BE DRILLED IN ACCORDANCE WITH TABLE 6.23 OF THE AITC TIMBER CONSTRUCTION MANUAL, 3RD EDITION.

SHOP DRAWINGS:
CONSTRUCTION DOCUMENTS ARE COPYRIGHTED AND SHALL NOT BE COPIED FOR USE AS ERECTION PLANS OR SHOP DETAILS.
USE OF SI INC.'S ELECTRONIC FILES AS BASE FOR SHOP DRAWINGS REQUIRES PRIOR APPROVAL BY SI INC. SIGNED RELEASE OF LIABILITY BY SUBCONTRACTOR.
DELETION OF SI INC.'S NAME AND LOGO FROM ALL SHEETS SO USED.
THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL SUBMIT IN WRITING ANY REQUESTS TO MODIFY THE PLANS OR SPECIFICATIONS.
ALL SHOP AND ERECTION DRAWINGS SHALL BE CHECKED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION FOR ENGINEER'S REVIEW.
SUBMITTALS NOT REVIEWED BY THE CONTRACTOR WILL BE RETURNED WITHOUT REVIEW.
FURNISH ONE (1) REPRODUCIBLE AND TWO (2) PRINTS OF SHOP AND ERECTION DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR CONCRETE REINFORCING STEEL, MASONRY REINFORCING STEEL, STRUCTURAL STEEL AND CONNECTION DESIGN CALCULATIONS. SUBMIT IN A TIMELY MANNER TO PERMIT TEN (10) WORKING DAYS FOR REVIEW.
SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS SPECIFIC SUGGESTED CHANGES ARE CLEARLY MARKED.
IN ANY EVENT, SUCH CHANGES BY MEANS OF THE SHOP DRAWING SUBMITTAL PROCESS BECOME THE RESPONSIBILITY OF THE ONE INITIATING SUCH CHANGE.

FIELD VERIFICATION OF EXISTING CONDITIONS:
CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY EXISTING STRUCTURE TO VERIFY CONDITIONS THAT AFFECT THE WORK SHOWN ON THE DRAWINGS.
CONTRACTOR SHALL REPORT ANY VARIATIONS OR DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING.

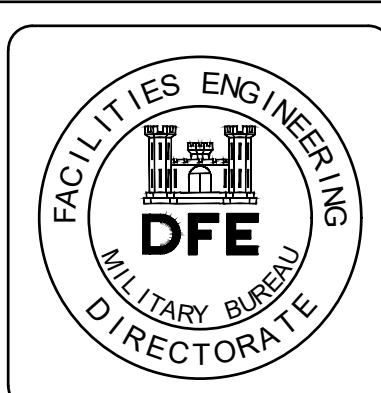
STRUCTURAL ERECTION AND BRACING REQUIREMENTS:
THE STRUCTURAL DRAWINGS ILLUSTRATE THE COMPLETED STRUCTURE WITH ELEMENTS IN THEIR FINAL POSITIONS, PROPERLY SUPPORTED AND BRACED.
THESE CONSTRUCTION DOCUMENTS CONTAIN TYPICAL AND REPRESENTATIVE DETAILS TO ASSIST THE CONTRACTOR. DETAILS SHOWN APPLY AT ALL SIMILAR CONDITIONS UNLESS OTHERWISE INDICATED.
ALTHOUGH DUE DILIGENCE HAS BEEN APPLIED TO MAKE THE DRAWINGS AS COMPLETE AS POSSIBLE, NOT EVERY DETAIL IS ILLUSTRATED, NOR IS EVERY EXCEPTIONAL CONDITION ADDRESSED.
ALL PROPRIETARY CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.
ALL WORK SHALL BE ACCOMPLISHED IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE APPLICABLE CODE AND LOCAL ORDINANCES.
THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK, INCLUDING LAYOUT AND DIMENSION VERIFICATION, MATERIALS COORDINATION, SHOP DRAWING REVIEW, AND THE WORK OF SUBCONTRACTORS.
ANY DISCREPANCIES OR OMISSIONS DISCOVERED IN THE COURSE OF THE WORK SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION.
CONTINUATION OF WORK WITHOUT NOTIFICATION OF DISCREPANCIES RELIEVES THE ARCHITECT AND ENGINEER FROM ALL CONSEQUENCES.
UNLESS OTHERWISE SPECIFICALLY INDICATED, THE DRAWINGS DO NOT DESCRIBE METHODS OF CONSTRUCTION.
THE CONTRACTOR, IN THE PROPER SEQUENCE, SHALL PERFORM OR SUPERVISE ALL WORK NECESSARY TO ACHIEVE THE FINAL COMPLETED STRUCTURE, AND TO PROTECT THE STRUCTURE, WORKMEN, AND OTHERS DURING CONSTRUCTION.
SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR EXCAVATION, FORMWORK, SCAFFOLDING, SAFETY DEVICES AND PROGRAMS OF ALL KINDS, SUPPORT AND BRACING FOR CRANES AND OTHER ERECTION EQUIPMENT.
DO NOT BACKFILL AGAINST BASEMENT OR RETAINING WALLS UNTIL SUPPORTING SLABS AND FLOOR FRAMING ARE IN PLACE AND SECURELY ANCHORED, UNLESS ADEQUATE BRACING IS PROVIDED.
TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL ALL FLOORS, WALLS, ROOFS AND ANY OTHER SUPPORTING ELEMENTS ARE IN PLACE.
THE ARCHITECT AND ENGINEER BEAR NO RESPONSIBILITY FOR THE ABOVE ITEMS, AND OBSERVATION VISITS TO THE SITE DO NOT IN ANY WAY INCLUDE INSPECTION OF THEM.

LEAD CONTAINING PAINT IS PRESENT ON PAINTED SURFACES. REFER TO APPENDIX A - AVAILABLE HAZARDOUS MATERIAL IDENTIFICATION REPORT, TABLE 2, WITHIN SPECIFICATION SECTION 02 82 13 ASBESTOS ABATEMENT, FOR A LISTING OF LEAD-BASED PAINT TESTING RESULTS. HANDLING OF COMPONENTS COATED WITH LEAD-CONTAINING PAINT AT ANY CONCENTRATION DURING REMOVALS AND ALTERATIONS REQUIRES COMPLIANCE WITH THE OSHA LEAD STANDARD (LEAD IN CONSTRUCTION, 29 CFR 1926.62)

S-000	GENERAL NOTES
S-100	FOUNDATION AND SECOND FLOOR PLANS
S-101	ROOF FRAMING PLAN
S-200	DETAILS

ABBREVIATIONS KEY

BM	BEAM
BOT	BOTTOM
BRG	BEARING
CIP	CAST IN PLACE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
DBL	DOUBLE
DET	DETAIL
DWG	DRAWING
EA	EACH
ES	EACH SIDE
EXP	EXPANSION
<E>	EXISTING
FTG	FOOTING
FND	FOUNDATION
GA	GAUGE
GALV	GALVANIZED
GYP	GYP SUM WALL BOARD
LGM	LIGHT GAUGE METAL
LVL	LAMINATED VENEER LUMBER
NTS	NOT TO SCALE
<N>	NEW
PT, P.T.	PRESSURE TREATED
<R>	REMOVE
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SQ	SQUARE
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
WA	WEDGE ANCHOR



PLAN REVISIONS	Rev#	Description	Date	Appr.
	1	GENERAL REVISIONS	1/28/19	

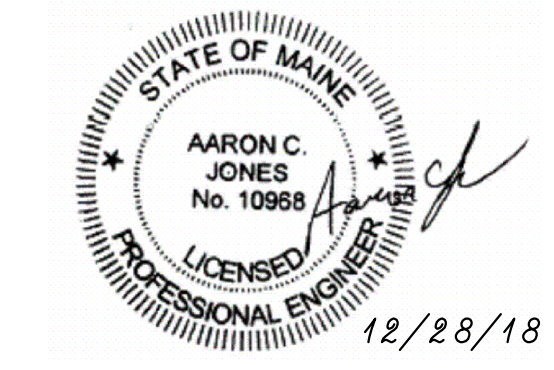
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DPE PROJECT NO: 235R18-456-J

STATE OF MAINE
DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT
Cordjia Capital Projects Group
16 Tenney Lane, Suite 23
Canaan, Maine 04844
207-236-9970 / mdeagle@cordjia.com

CAMP KEYES REUTILIZATION PROJECT
CAMP KEYES, AUGUSTA, MAINE
BUILDING NO. 8 RENOVATIONS
STRUCTURAL GENERAL NOTES

- PLAN PROGRESS
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS

SHEET ID:
S-000
SHEET: 8 OF 33

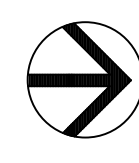


46 Forest Avenue
Portland, ME, 04101
p. 207-774-4614
f. 866-793-7835
www.structuralinteg.com

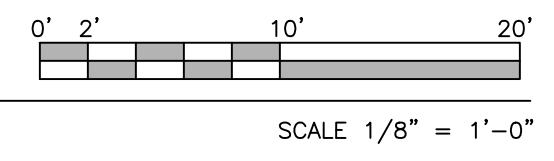
BUILD WITH CONFIDENCE
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FRAMING PLAN SYMBOLS KEY	
(X)	NUMBER OF WOOD STUDS IN POST BELOW
←	JOIST BEARING
⊥	FLUSH FRAMED JOIST BEARING WITH HANGER
E	FLUSH FRAMED JOIST BEARING WITH HANGER
X ^T	NUMBER OF TRIM STUDS UNDER HEADER
X ^K	NUMBER OF KING STUDS ADJACENT TO HEADER

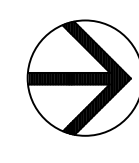
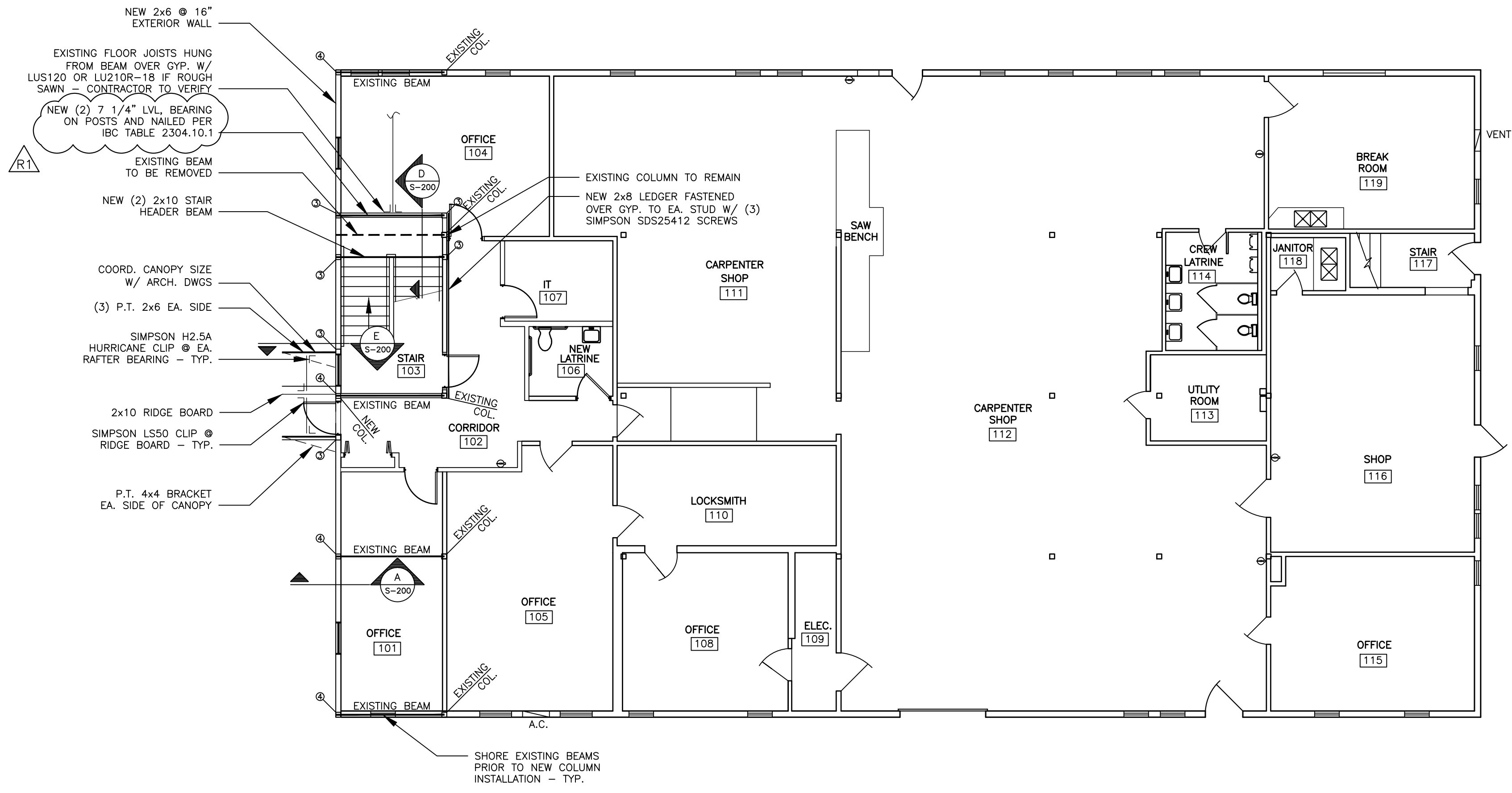


SECOND FLOOR FRAMING PLAN

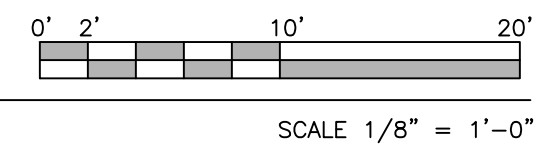


NOTES:

- SEE SHEET S-000 FOR GENERAL STRUCTURAL NOTES.
- ALL BEAMS ARE FLUSH, UNO.
- ALL HEADERS IN INTERIOR 2x BEARING WALLS ARE (2) 2x6, UNO
- ALL HEADERS IN EXTERIOR 2x BEARING WALLS ARE (3) 2x6, UNO
- ALL WOOD COLUMNS IN 2x6 WALLS SHALL BE (3) 2x6 AND IN 2x4 WALLS SHALL BE (3) 2x4 UNLESS NOTED OTHERWISE ON PLANS.
- FLOOR SHEATHING TO BE 3/4" T+G, SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY DFE PROJECT MANAGER IF CONDITIONS ARE NOT WHAT IS SHOWN ON THE CONTRACT DRAWINGS.
- CONTRACTOR SHALL NOT REMOVE ANY EXISTING STRUCTURE WITHOUT DIRECTION FROM S.I. INC.
- UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS ALL EXISTING STRUCTURE SHALL REMAIN.
- CONTRACTOR SHALL NOTIFY DFE PROJECT MANAGER OF ANY DAMAGED STRUCTURE NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS.
- CONTRACTOR IS RESPONSIBLE TO SHORE EXISTING STRUCTURE AS REQUIRED TO PERFORM THE WORK SPECIFIED ON THE STRUCTURAL DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING BUILDING, FINISHES, AND STRUCTURE ADJACENT TO ANY AREA OF WORK.
- FRAMING IS SHOWN IN A REFLECTED CEILING VIEW AND IS TO BE INSTALLED IN THE CEILING ABOVE THE FLOOR SHOWN - TYP.
- PIPING/UTILITIES ASSOCIATED W/ STRUCTURAL WORK MAY REQUIRE TEMPORARY SUPPORT/RELOCATION.

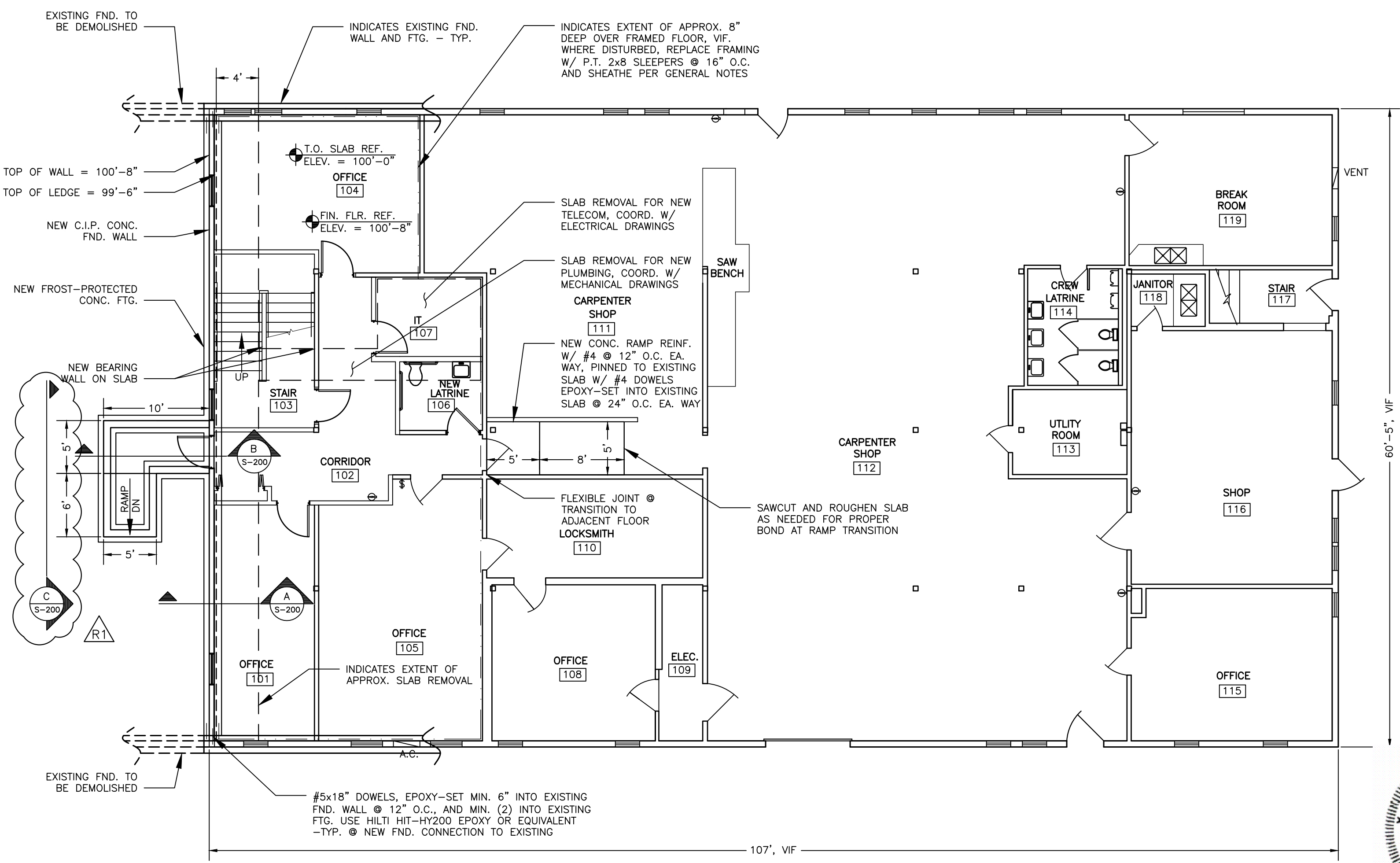


FOUNDATION/GROUND LEVEL PLAN



NOTES:

- SEE SHEET S-000 FOR GENERAL STRUCTURAL NOTES.
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY DFE PROJECT MANAGER IF CONDITIONS ARE NOT WHAT IS SHOWN ON THE CONTRACT DRAWINGS.
- CONTRACTOR SHALL NOTIFY DFE PROJECT MANAGER OF ANY DAMAGED STRUCTURE NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS.
- ALL NEW SLAB AREAS SHALL BE FIBERMESH REINFORCED AND PINNED TO ADJACENT EXISTING SLAB USING #4 x 18" DOWELS @ 18" O.C. EPOXY-SET INTO EXISTING SLAB MIN. 4". USE HILTI HIT-HY200 EPOXY OR EQUIVALENT.
- ALL FND. WALLS SHALL BE 8" THICK REINF. W/ #4 BARS @ 24" O.C. EA. WAY. W/ DOWELS TO MATCH.
- ALL FOOTINGS SHALL BE 8" TALL x 1'-8" WIDE W/ (3) #4 BARS LONGITUDINAL, AT BOTTOM.



PLAN REVISIONS	
Rev#	Description
1	GENERAL REVISIONS

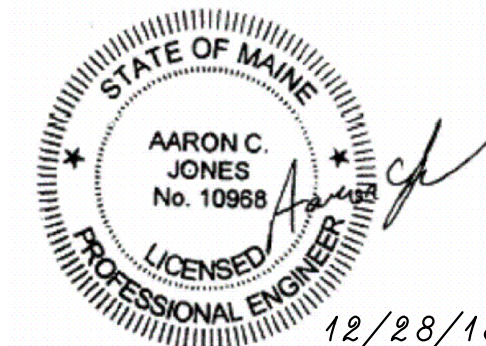
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DRAWN BY:	ACJ/MAD
CHECKED BY:	ACJ/MAD
DATE:	12/28/2018
SCALE:	As Noted
DFE PROJECT NO.:	235R18-456-D

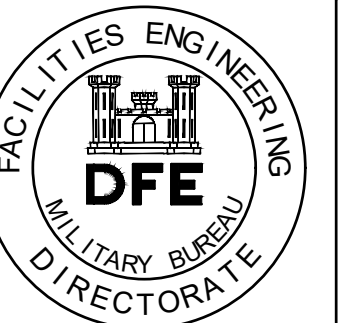
STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cord/Jia Capital Projects Group
 16 Tenney Lane, Suite 23
 Bangor, Maine, 04844
 207-236-9970 / mdaigle@cordjia.com

CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING NO. 8 RENOVATIONS
 STRUCTURAL PLANS
 FOUNDATION & SECOND FLOOR

PLAN PROGRESS	
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<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
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<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
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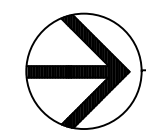
SHEET ID:
 S-100
 SHEET: 9 OF 33





Rev#	Description	Date	Appr.
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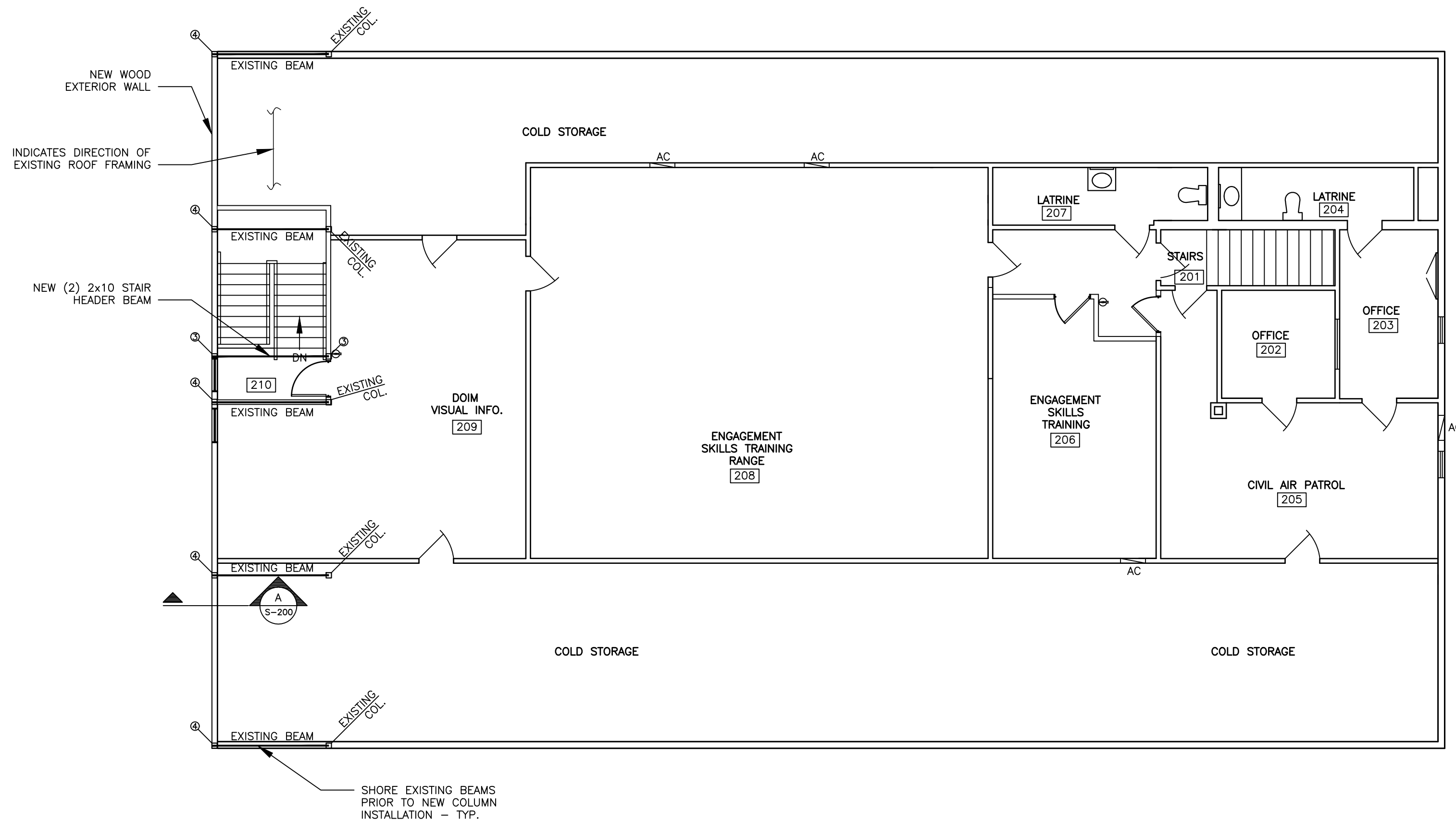
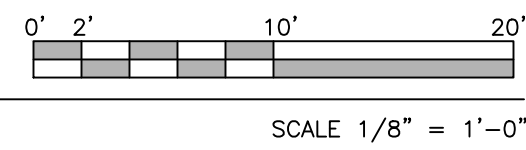
(X)	NUMBER OF WOOD STUDS IN POST BELOW
←	JOIST BEARING
—	FLUSH FRAMED JOIST BEARING WITH HANGER
—	FLUSH FRAMED JOIST BEARING WITH HANGER
X/T	NUMBER OF TRIM STUDS UNDER HEADER
X/K	NUMBER OF KING STUDS ADJACENT TO HEADER



ROOF FRAMING PLAN

NOTES:

- SEE SHEET S-000 FOR GENERAL STRUCTURAL NOTES.
- ALL BEAMS ARE FLUSH, UNO.
- ALL HEADERS IN INTERIOR 2x BEARING WALLS ARE (2) 2x6, UNO
- ALL HEADERS IN EXTERIOR 2x BEARING WALLS ARE (3) 2x6, UNO
- ROOF SHEATHING SHALL BE 5/8", APA RATED, SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY DFE PROJECT MANAGER IF CONDITIONS ARE NOT WHAT IS SHOWN ON THE CONTRACT DRAWINGS.
- CONTRACTOR SHALL NOT REMOVE ANY EXISTING STRUCTURE WITHOUT DIRECTION FROM S.J. INC.
- UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS ALL EXISTING STRUCTURE SHALL REMAIN.
- CONTRACTOR SHALL NOTIFY DFE PROJECT MANAGER OF ANY DAMAGED STRUCTURE NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS.
- CONTRACTOR IS RESPONSIBLE TO SHORE EXISTING STRUCTURE AS REQUIRED TO PERFORM THE WORK SPECIFIED ON THE STRUCTURAL DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING BUILDING, FINISHES, AND STRUCTURE ADJACENT TO ANY AREA OF WORK.
- FRAMING IS SHOWN IN A REFLECTED CEILING VIEW AND IS TO BE INSTALLED IN THE CEILING ABOVE THE FLOOR SHOWN - TYP.
- PIPING/UTILITIES ASSOCIATED W/ STRUCTURAL WORK MAY REQUIRE TEMPORARY SUPPORT/RELOCATION.

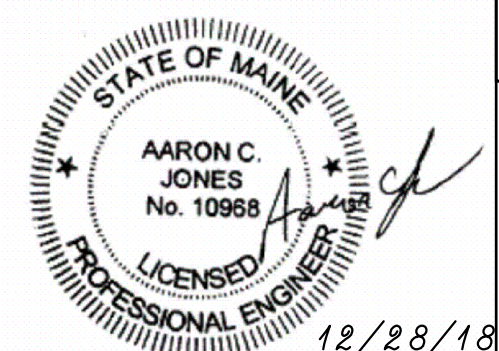


DESIGNED BY:	JMS
DRAWN BY:	JMS
CHECKED BY:	ACJ/MAD
DATE:	12/28/2018
SCALE:	As Noted
DFE PROJECT NO.:	235R18-456-D

STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordjia Capital Projects Group
 16 Tenney Lane, Suite 23
 Concord, Maine, 04844
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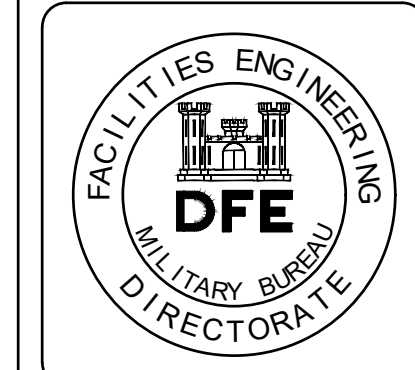
CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING NO. 8 RENOVATIONS
 STRUCTURAL FRAMING PLAN
 ROOF

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SHEET ID:
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 SHEET: 10 of 33

12/28/18



Rev#	Description	Date	Appr.
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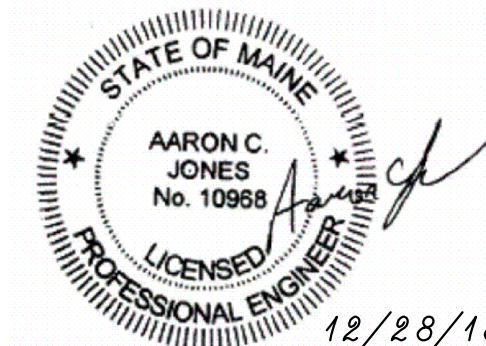
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 CHECKED BY: ACJ/MAD
 DATE: 12/28/2018
 SCALE: As Noted
 DFE PROJECT NO: 235R18-456-D
 Cordjia Capital Projects Group
 16 Tenney Lane, Suite 23
 Concord, Maine, 04844
 207-236-9970 / mdc@cordjia.com

CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING NO. 8 RENOVATIONS
 STRUCTURAL DETAILS

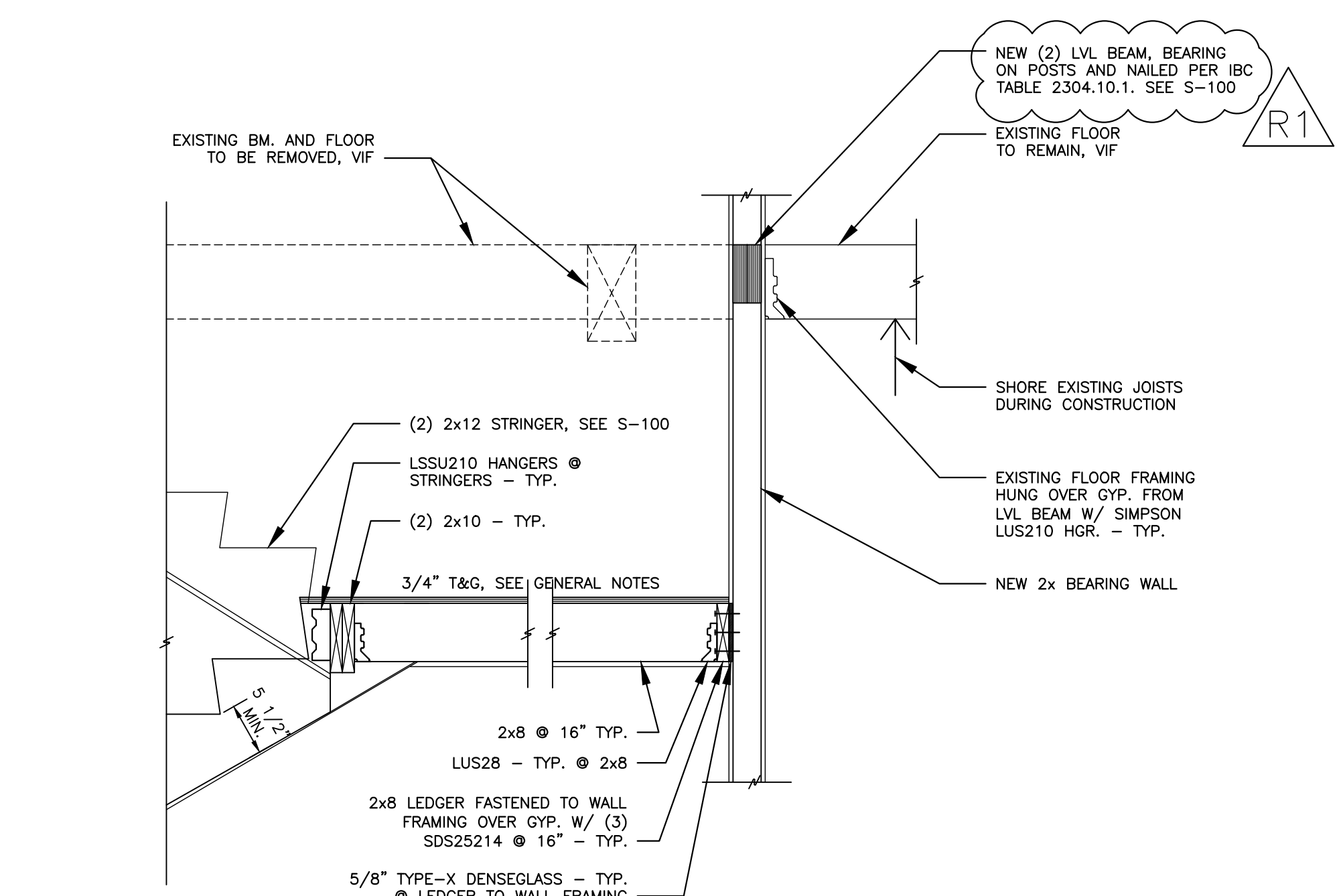
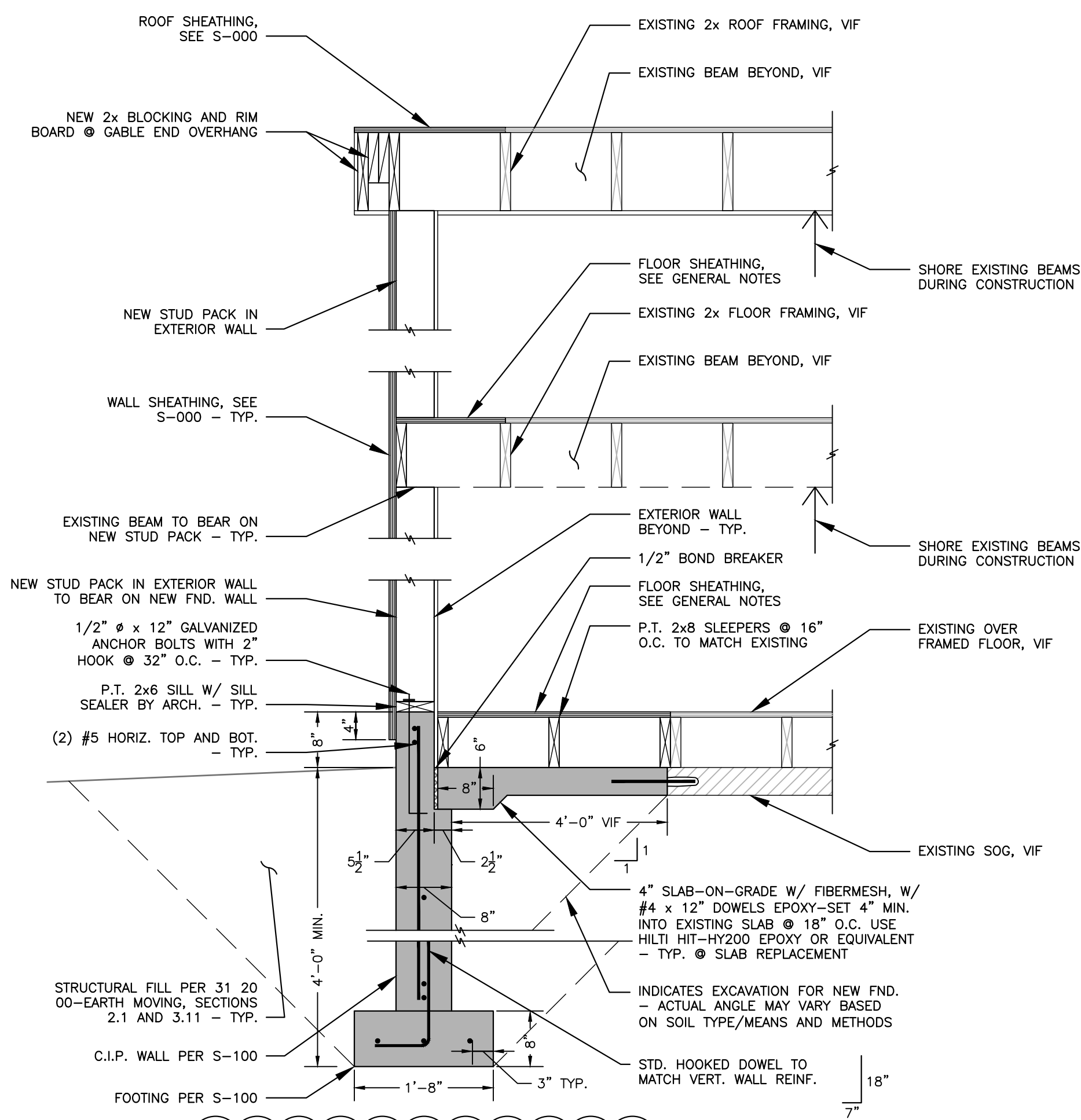
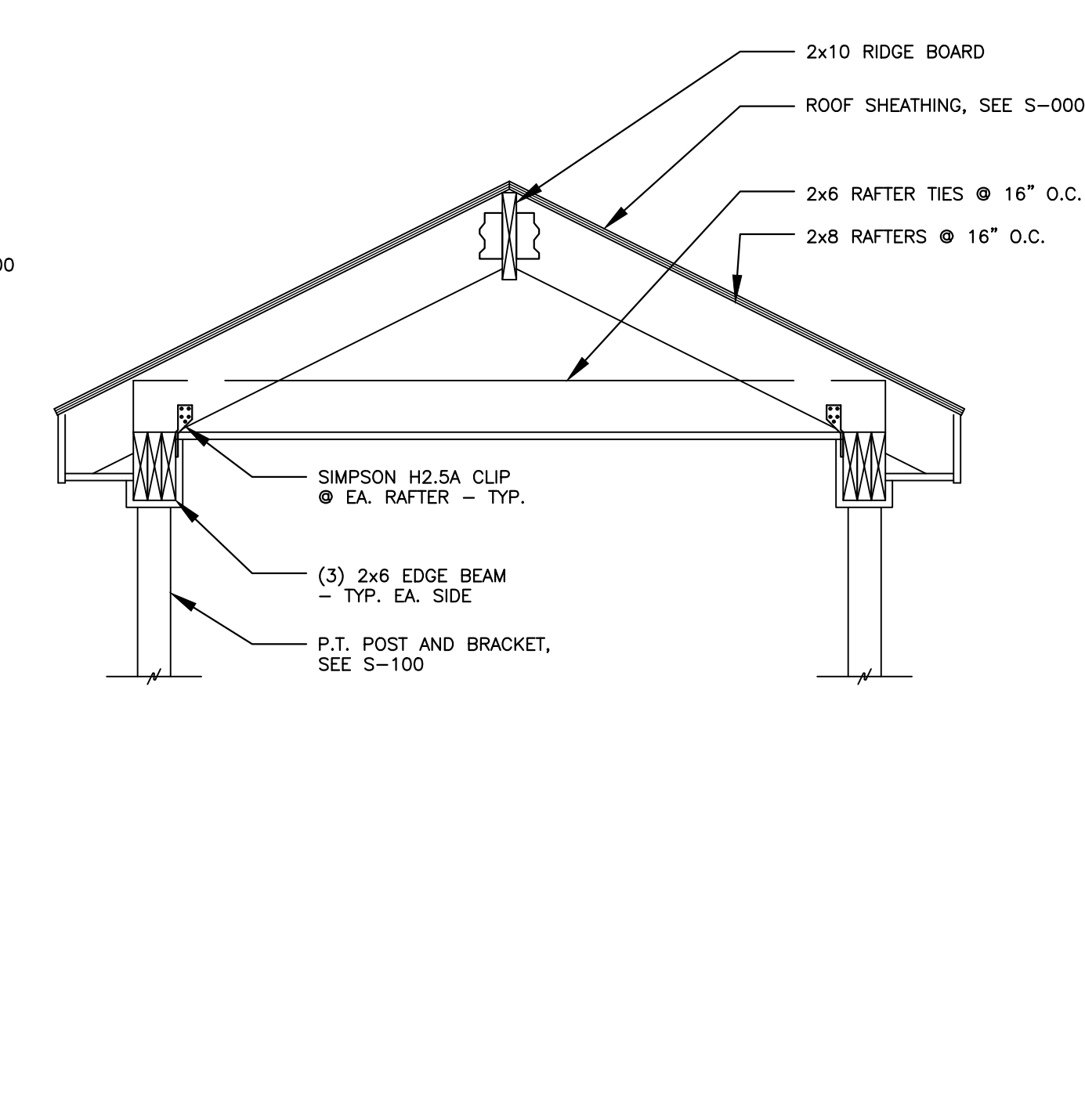
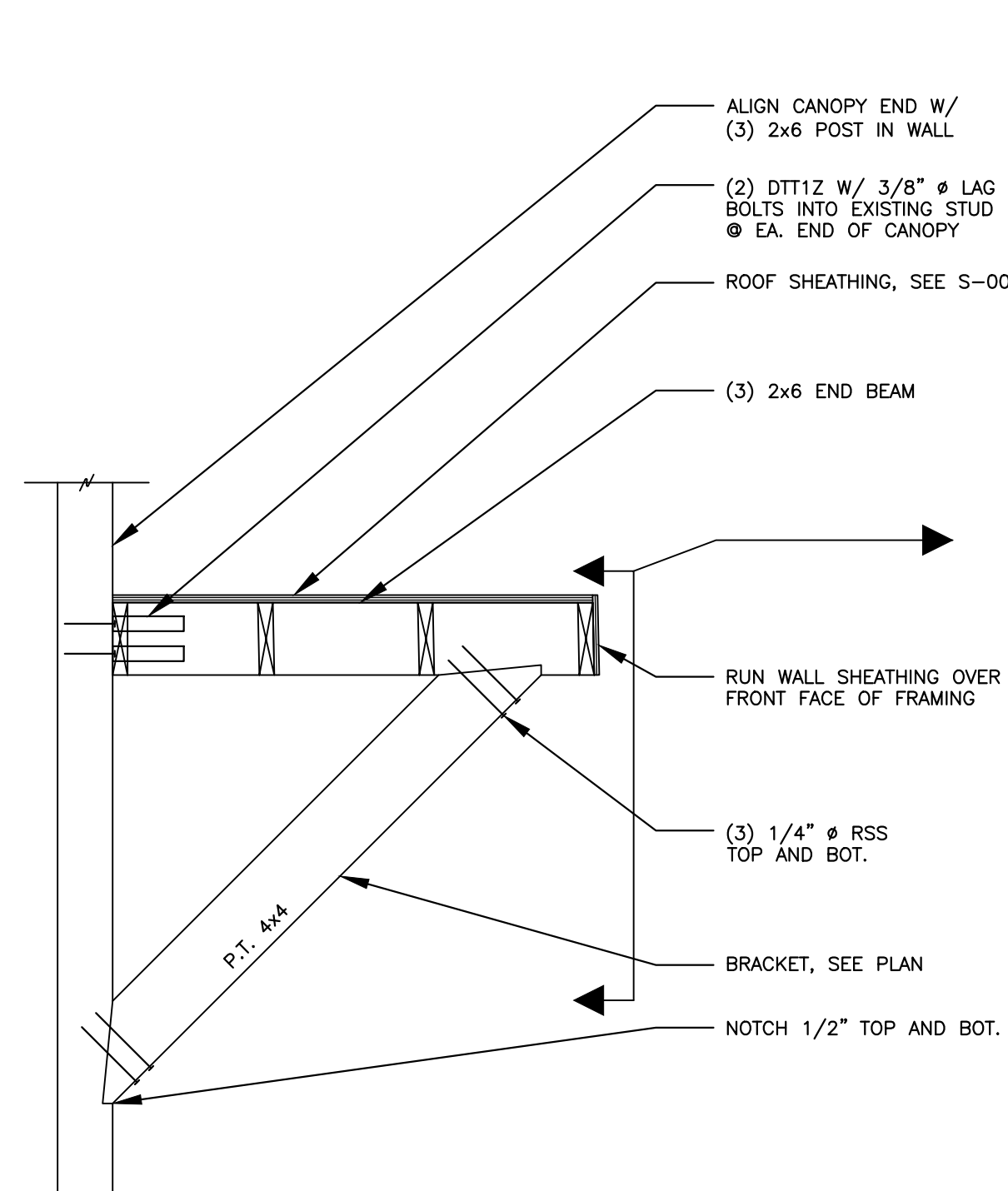
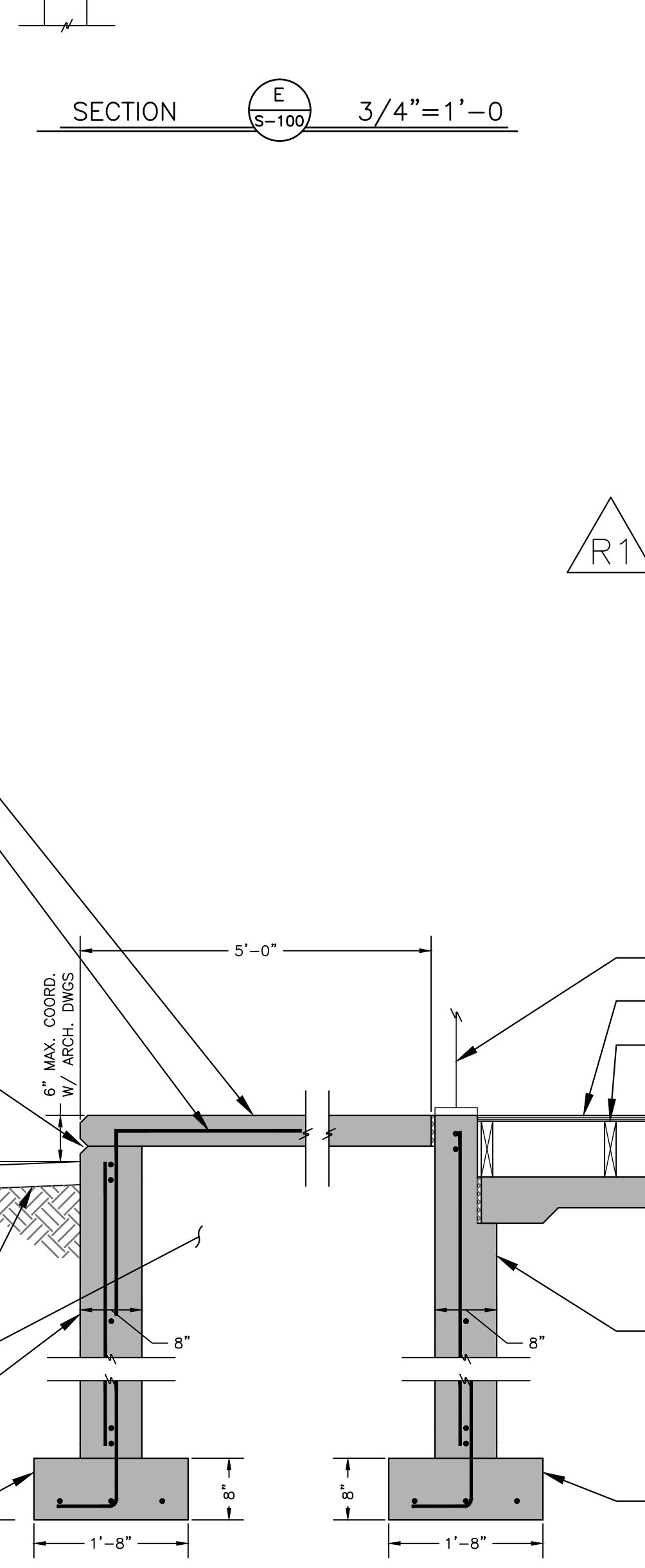
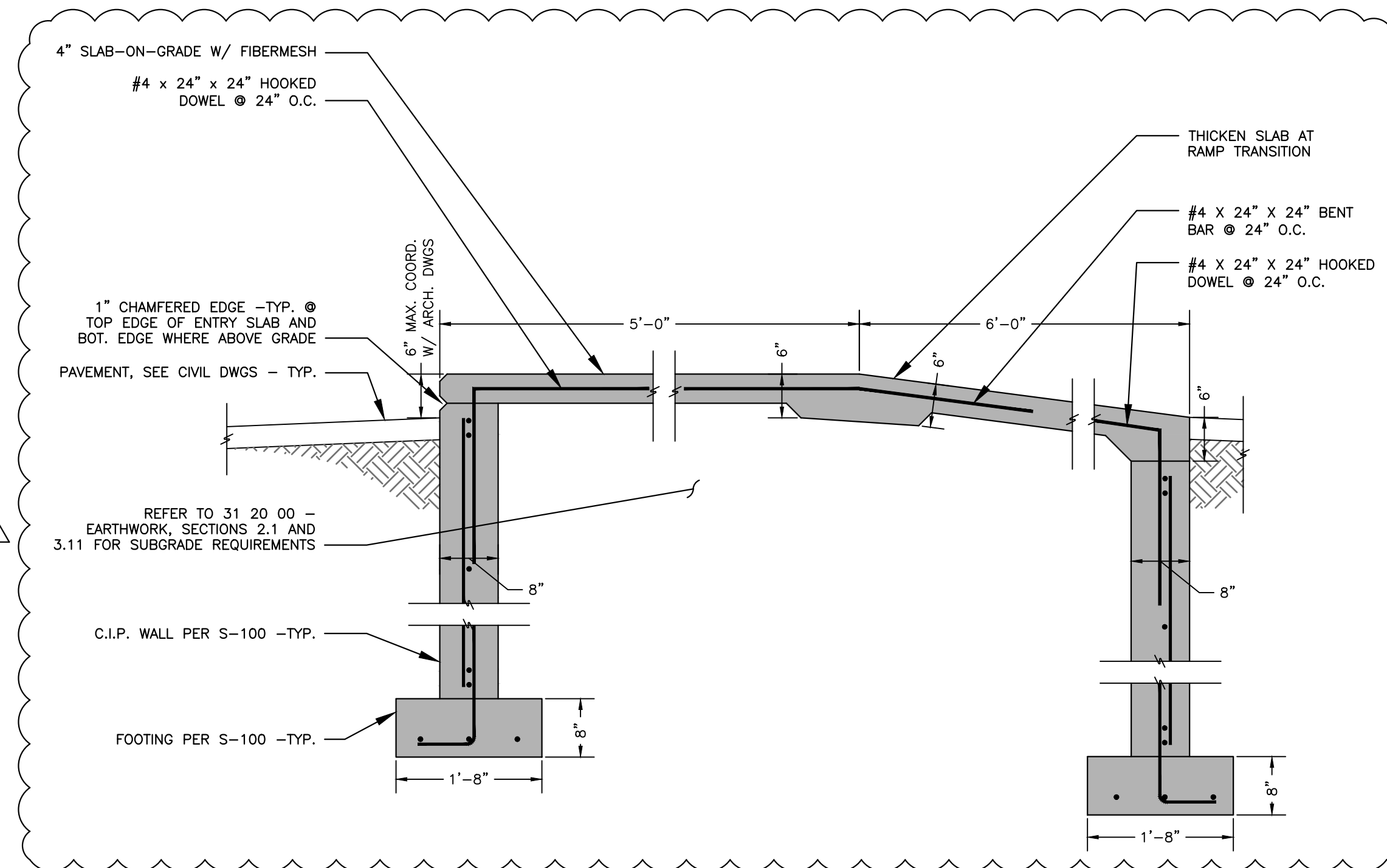
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<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
 S-200
 SHEET: 11 of 33



12/28/18



SECTION **D** 3/4"=1'-0"

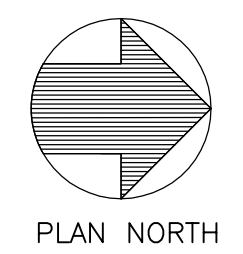
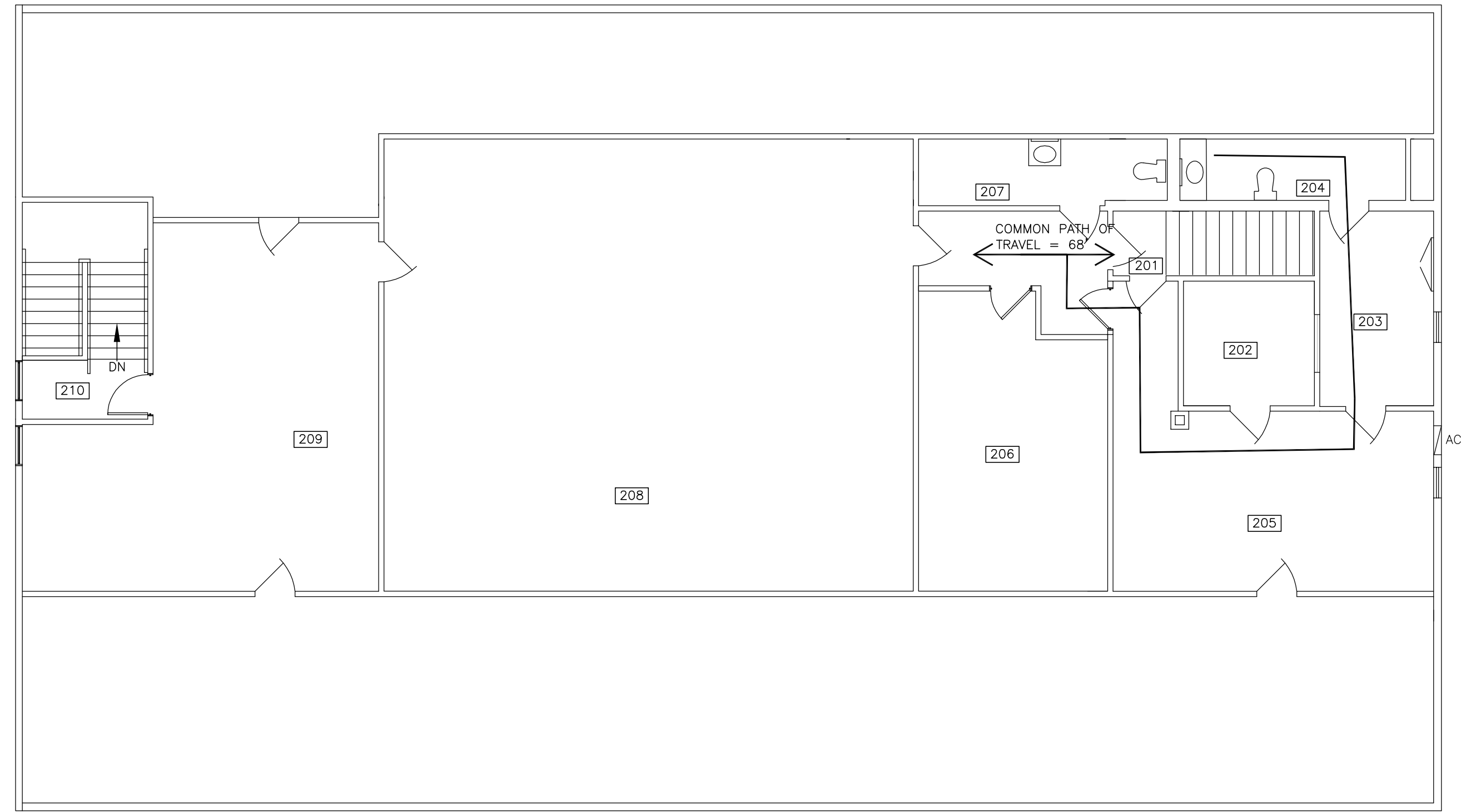
SECTION **E** 3/4"=1'-0"

SECTION **C** 3/4"=1'-0"

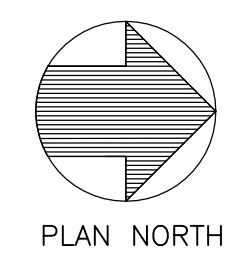
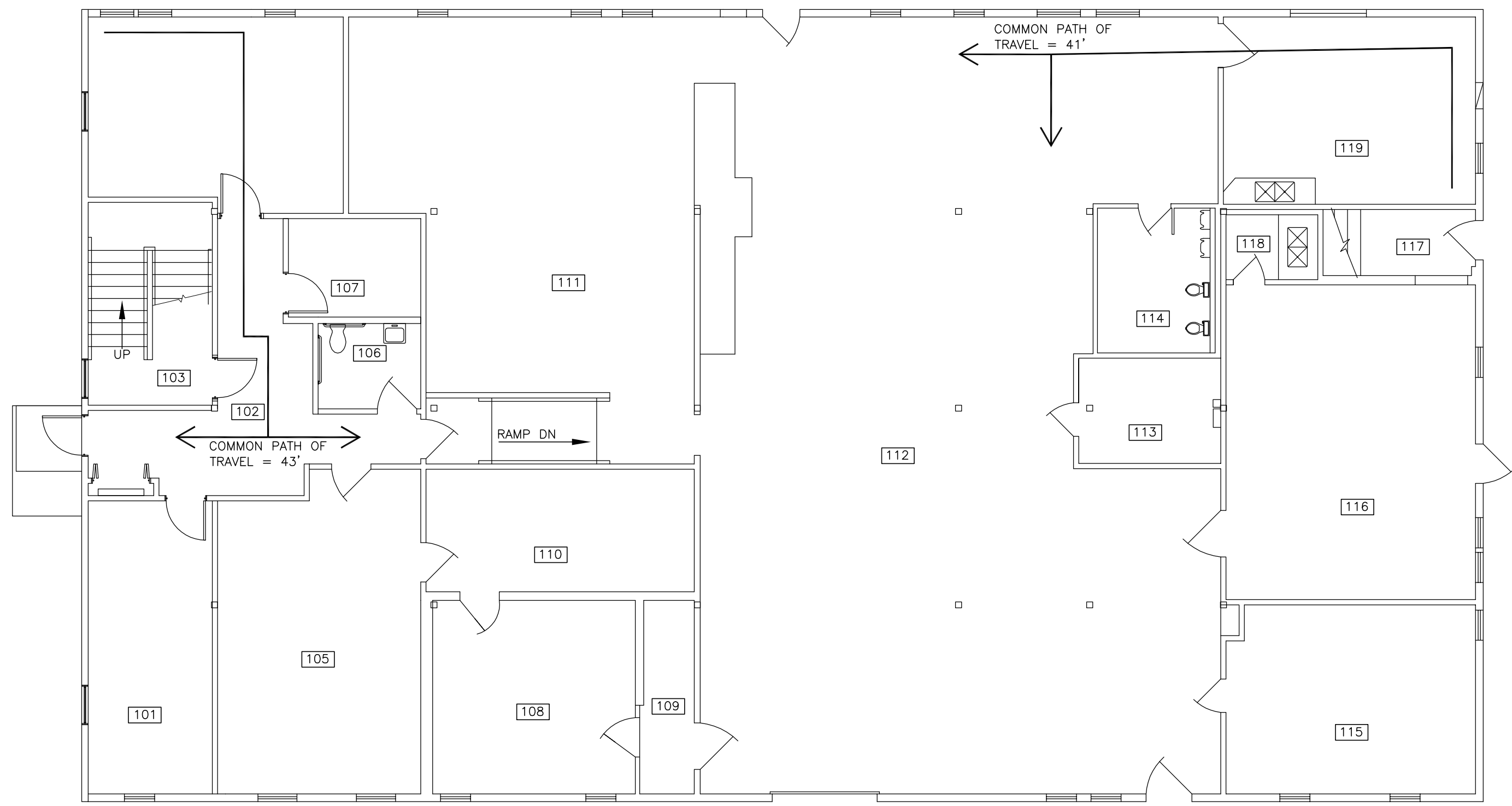
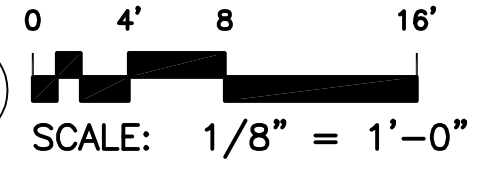
SECTION **B** 3/4"=1'-0"

SECTION **A** 3/4"=1'-0"

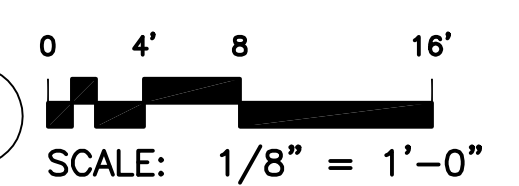




BUILDING No. 8 SECOND FLOOR CODE COMPLIANCE PLAN

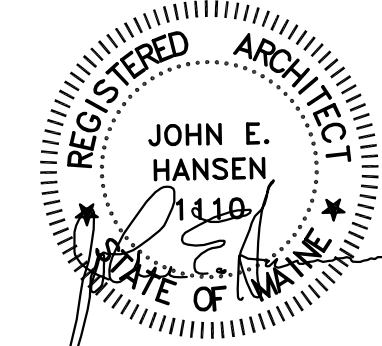


BUILDING No. 8 FIRST FLOOR CODE COMPLIANCE PLAN



CODE INFORMATION	
BUILDING CODE	MAINE UNIFORM BUILDING AND ENERGY CODE
BUILDING INFORMATION	BUILDING AREA FIRST FLOOR - 6,454 SECOND FLOOR - 3,553
SPRINKLER	NONE
TYPE OF CONSTRUCTION	TYPE V-B
BUILDING USE CLASSIFICATION	NON - SEPARATED MIXED USE BUSINESS & F1 INDUSTRIAL
BUILDING ALLOWABLE AREA	9,000 FOR BUSINESS 8,500 FOR F1 INDUSTRIAL
OCCUPANT LOAD	BUSINESS AND F1 ARE 100 SQ.FT./PERSON. FIRST FLOOR - 6,454 SQ.FT./100 = 64.5 PEOPLE SECOND FLOOR - 3,553 SQ.FT./100 = 35.5 PEOPLE BUILDING TOTAL OCCUPANT LOAD = 100 PEOPLE
EGRESS WIDTH	100 x .2 = 20" REQUIRED, 136" PROVIDED.
TRAVEL DISTANCE TO AN EXIT.	BUSINESS - 200' PERMITTED. F1 INDUSTRIAL - 200' PERMITTED.
COMMON PATH OF TRAVEL.	BUSINESS - 75' PERMITTED. F1 INDUSTRIAL - 50' PERMITTED MAX. COMMON PATH = 68' IN BUSINESS AREA MAX. COMMON PATH = 41' IN INDUSTRIAL AREA
DEAD END CORRIDOR	BUSINESS - 20' PERMITTED. F1 INDUSTRIAL - 50' PERMITTED, MAX. DEAD END CORRIDOR = 16'

CODE INFORMATION	
LIFE SAFETY CODE	NFPA 101 2009 EDITION
BUILDING INFORMATION	BUILDING AREA FIRST FLOOR - 6,454 SECOND FLOOR - 3553
SPRINKLER	NONE
TYPE OF CONSTRUCTION	TYPE V(000)
BUILDING USE CLASSIFICATION	NON - SEPARATED MIXED USE BUSINESS & INDUSTRIAL
OCCUPANT LOAD	BUSINESS AND INDUSTRIAL ARE 100 SQ.FT./PERSON. FIRST FLOOR - 6,454 SQ.FT./100 = 64.5 PEOPLE SECOND FLOOR - 3,553 SQ.FT./100 = 35.5 PEOPLE BUILDING TOTAL OCCUPANT LOAD = 100 PEOPLE
EGRESS WIDTH	100 x .2 = 20" REQUIRED, 136" PROVIDED.
TRAVEL DISTANCE TO AN EXIT.	BUSINESS - 200' PERMITTED INDUSTRIAL - 200' PERMITTED
COMMON PATH OF TRAVEL.	BUSINESS - 75' PERMITTED INDUSTRIAL - 50' PERMITTED MAX. COMMON PATH = 68' IN BUSINESS AREA MAX. COMMON PATH = 41' IN INDUSTRIAL AREA
DEAD END CORRIDOR	BUSINESS - 20' PERMITTED INDUSTRIAL - 50' PERMITTED MAX. DEAD END CORRIDOR = 16'



PLAN REVISIONS	
Rev#	Description
1	GENERAL REVISIONS
	Date: 1/28/19
	Appr.

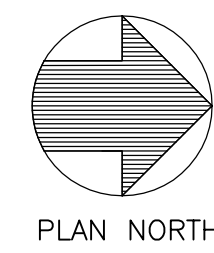
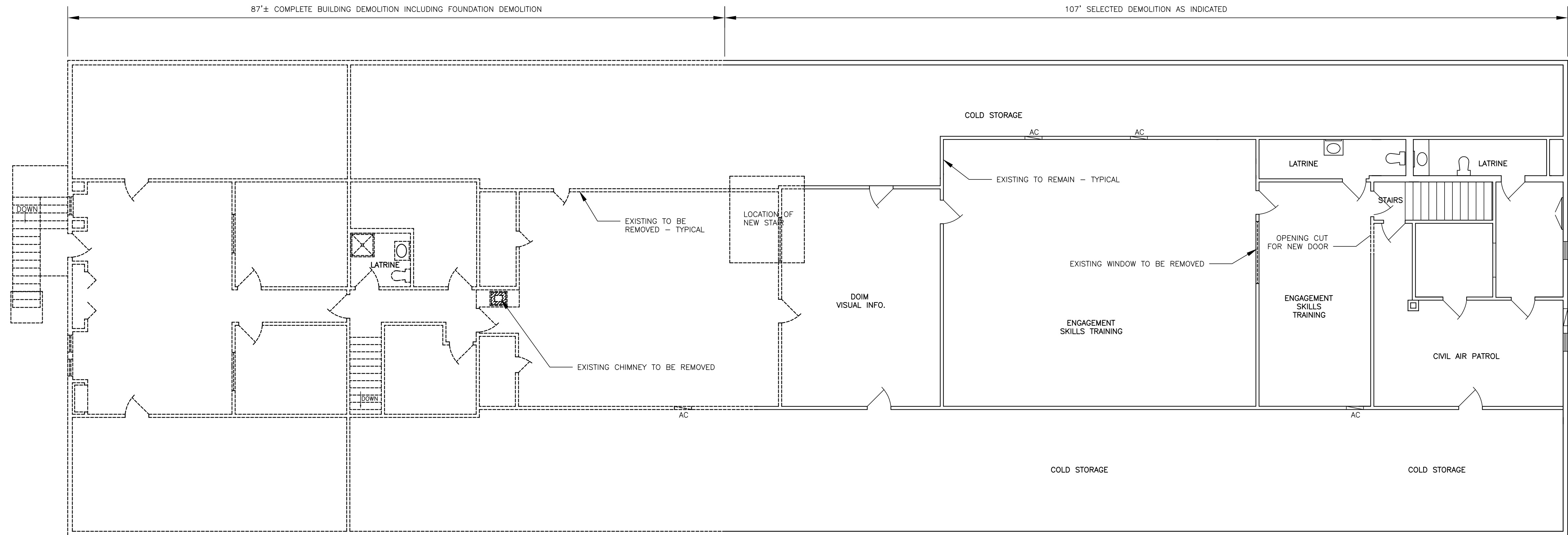
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DRAWN BY:	CMC
CHECKED BY:	MAD
DATE:	12/28/2018
SCALE:	1/8" = 1'-0"
DFE PROJECT NO.:	235R18-456-D

STATE OF MAINE
DEPARTMENT OF DEFENSE, VETERANS
AND EMERGENCY MANAGEMENT
Cordjia Capital Projects Group
John E. Hansen, Architect
16 Tomney Lane, Suite 23
Camden, Maine 04843
207-236-9970 / mdaigle@cordjiacppg.com

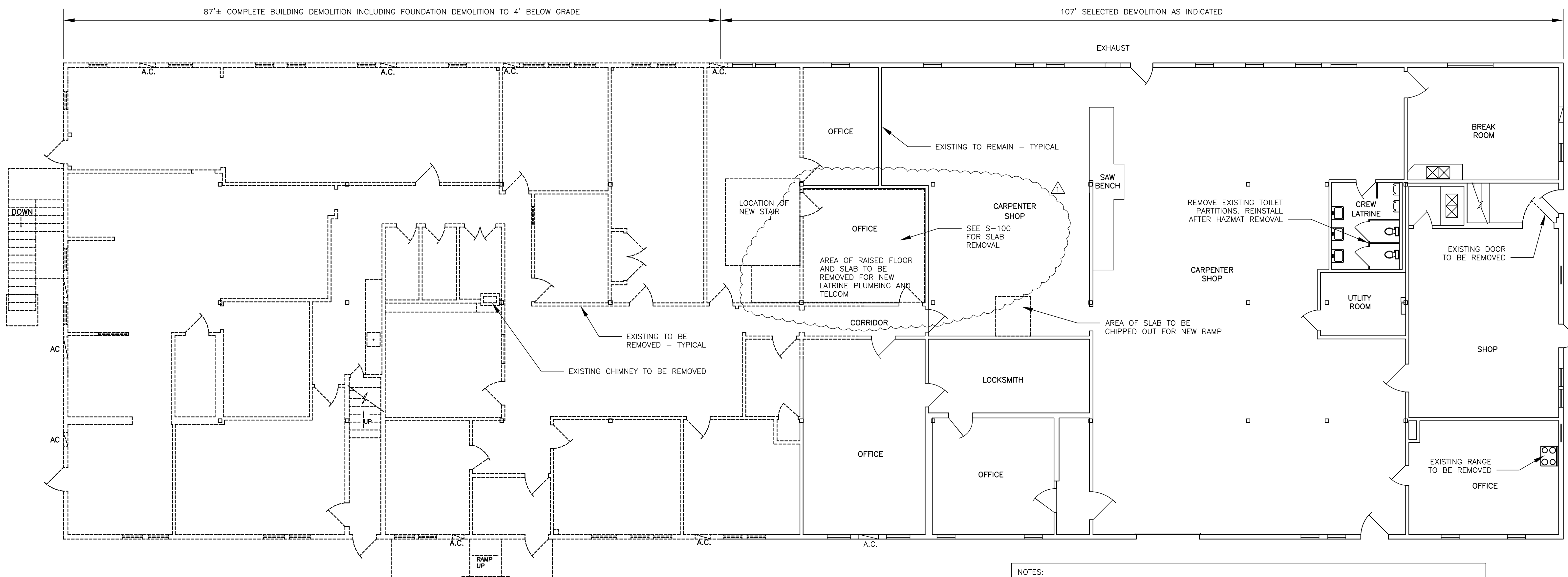
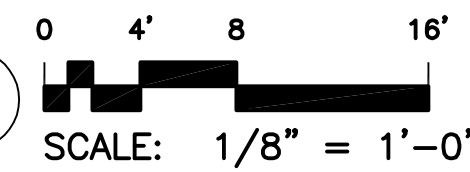
CAMP KEYES REUTILIZATION PROJECT
CAMP KEYES, AUGUSTA, MAINE
BUILDING No. 8 RENOVATIONS
CODE INFORMATION

PLAN PROGRESS	
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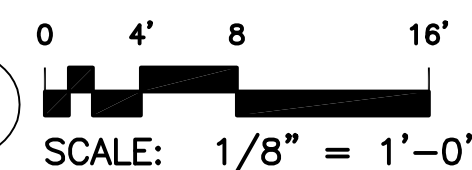
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SHEET: 13 OF 33



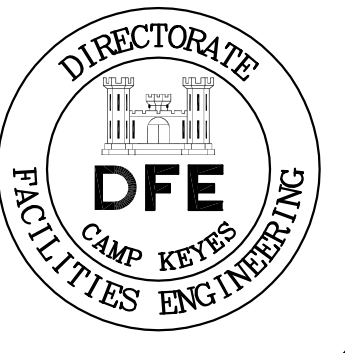
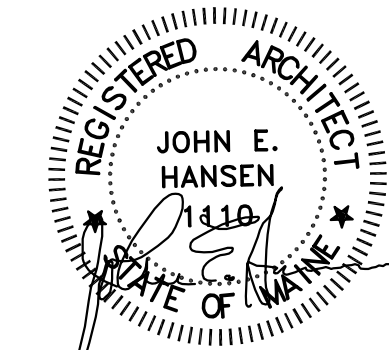
BUILDING No. 8 SECOND FLOOR REMOVALS PLAN



BUILDING No. 8 FIRST FLOOR REMOVALS PLAN



- NOTES:
- SEE ALSO H-001 FOR ENVIRONMENTAL REMOVALS.
 - LEAD CONTAINING PAINT IS PRESENT ON PAINTED SURFACES. REFER TO APPENDIX A - AVAILABLE HAZARDOUS MATERIAL IDENTIFICATION REPORT, TABLE 2, WITHIN SPECIFICATION SECTION 02 82 13 ASBESTOS ABATEMENT, FOR A LISTING OF LEAD-BASED PAINT TESTING RESULTS. HANDLING OF COMPONENTS COATED WITH LEAD-CONTAINING PAINT AT ANY CONCENTRATION DURING REMOVALS AND ALTERATIONS REQUIRES COMPLIANCE WITH THE OSHA LEAD STANDARD (LEAD IN CONSTRUCTION, 29 CFR 1926.62).
 - FOUNDATION TO BE REMOVED ENTIRELY OR REMOVED TO 4" BELOW GRADE.
 - OWNER SHALL REMOVE ALL NON ATTACHED FURNISHINGS PRIOR TO COMMENCEMENT OF WORK.



PLAN REVISIONS		Date	Appr.
1	GENERAL REVISIONS	12/28/19	
Rev#	Description		

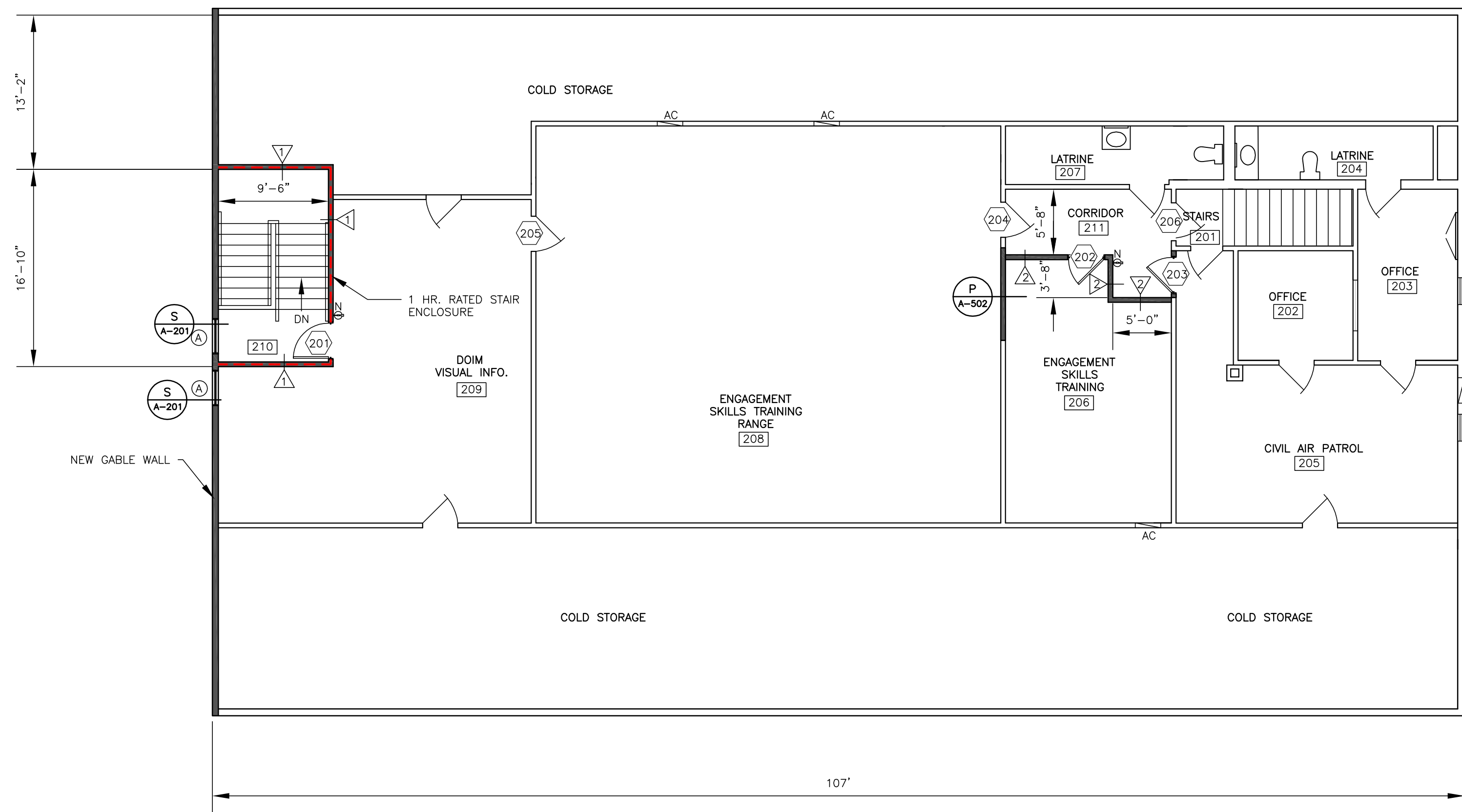
DESIGNED BY: JEH	CHECKED BY: MAD	DATE: 12/28/2018	SCALE: 1/8" = 1'-0"	DFE PROJECT NO: 23SR18-456-D
DRAWN BY: CMC				

STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordja Capital Projects Group
 John E. Hansen, Architect
 16 Tompney Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdajle@cordjagroup.com

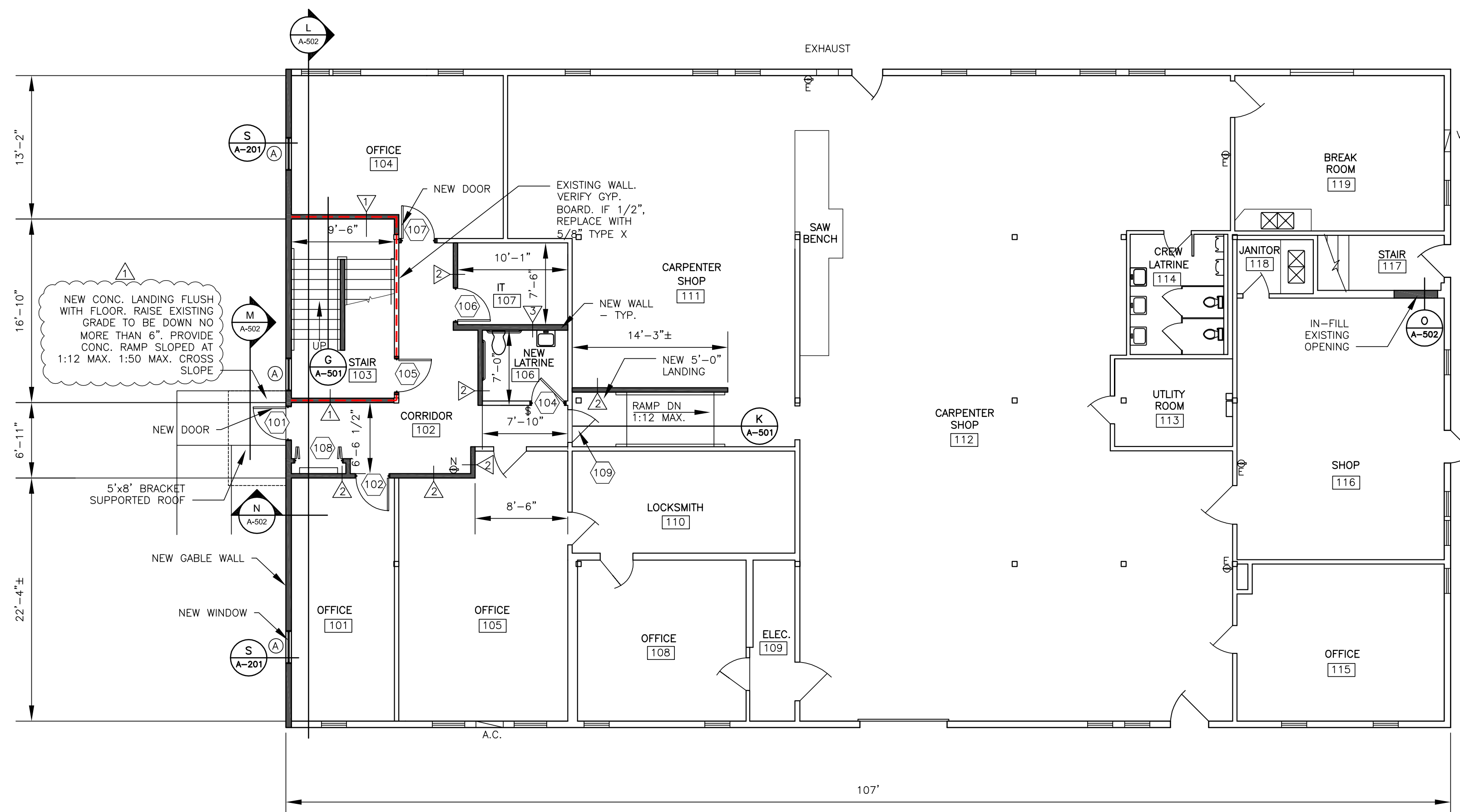
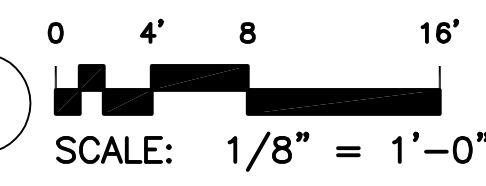
CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING No. 8 RENOVATIONS
 REMOVALS PLANS
 FIRST AND SECOND FLOORS

- PLAN PROGRESS
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS

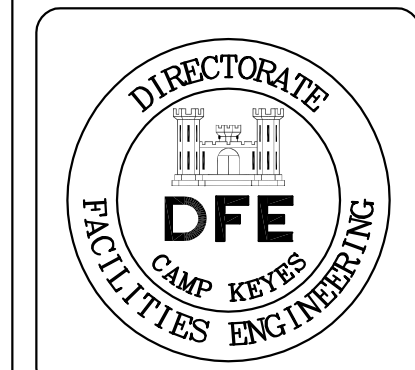
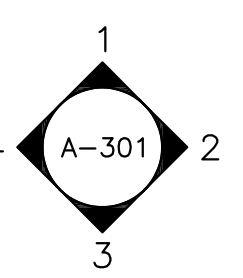
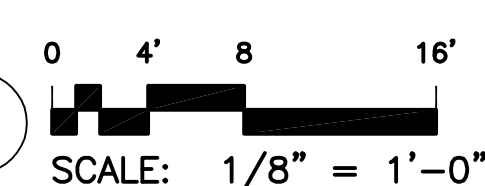
SHEET ID:
 AD-101
 SHEET: 14 of 33



BUILDING No. 8 PROPOSED SECOND FLOOR PLAN



BUILDING No. 8 PROPOSED FIRST FLOOR PLAN



PLAN REVISIONS	
Rev#	Description
1	GENERAL REVISIONS

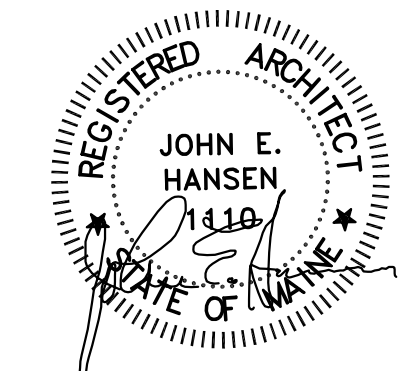
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DRAWN BY: CMC	CHECKED BY: MAD			

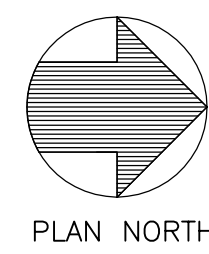
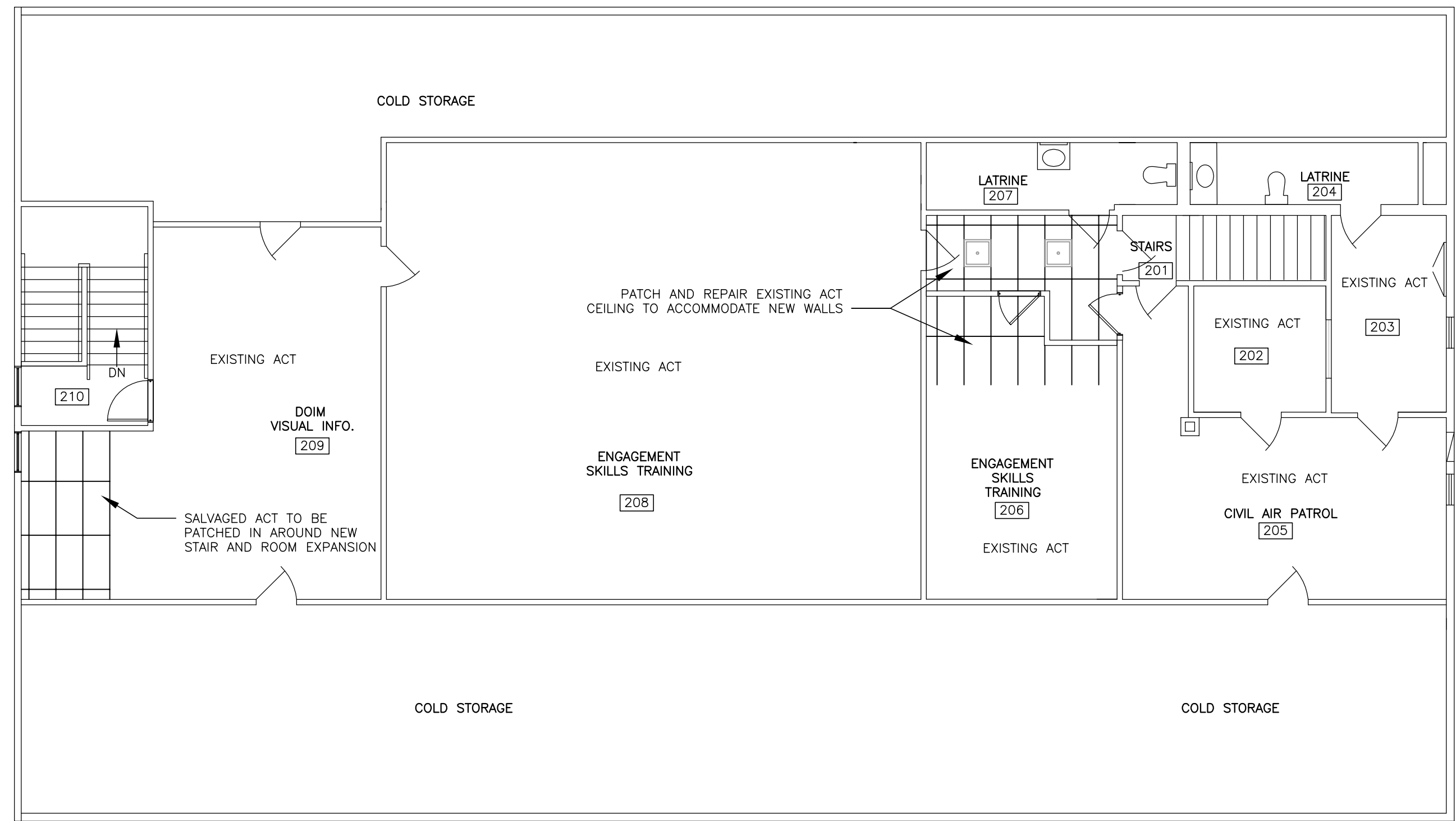
STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
 AND EMERGENCY MANAGEMENT
 Cordjia Capital Projects Group
 John E. Hansen, Architect
 16 Tannery Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdaigle@cordjiacpg.com

CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING No. 8 RENOVATIONS
 PROPOSED FLOOR PLANS
 FIRST AND SECOND FLOORS

- PLAN PROGRESS**
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS

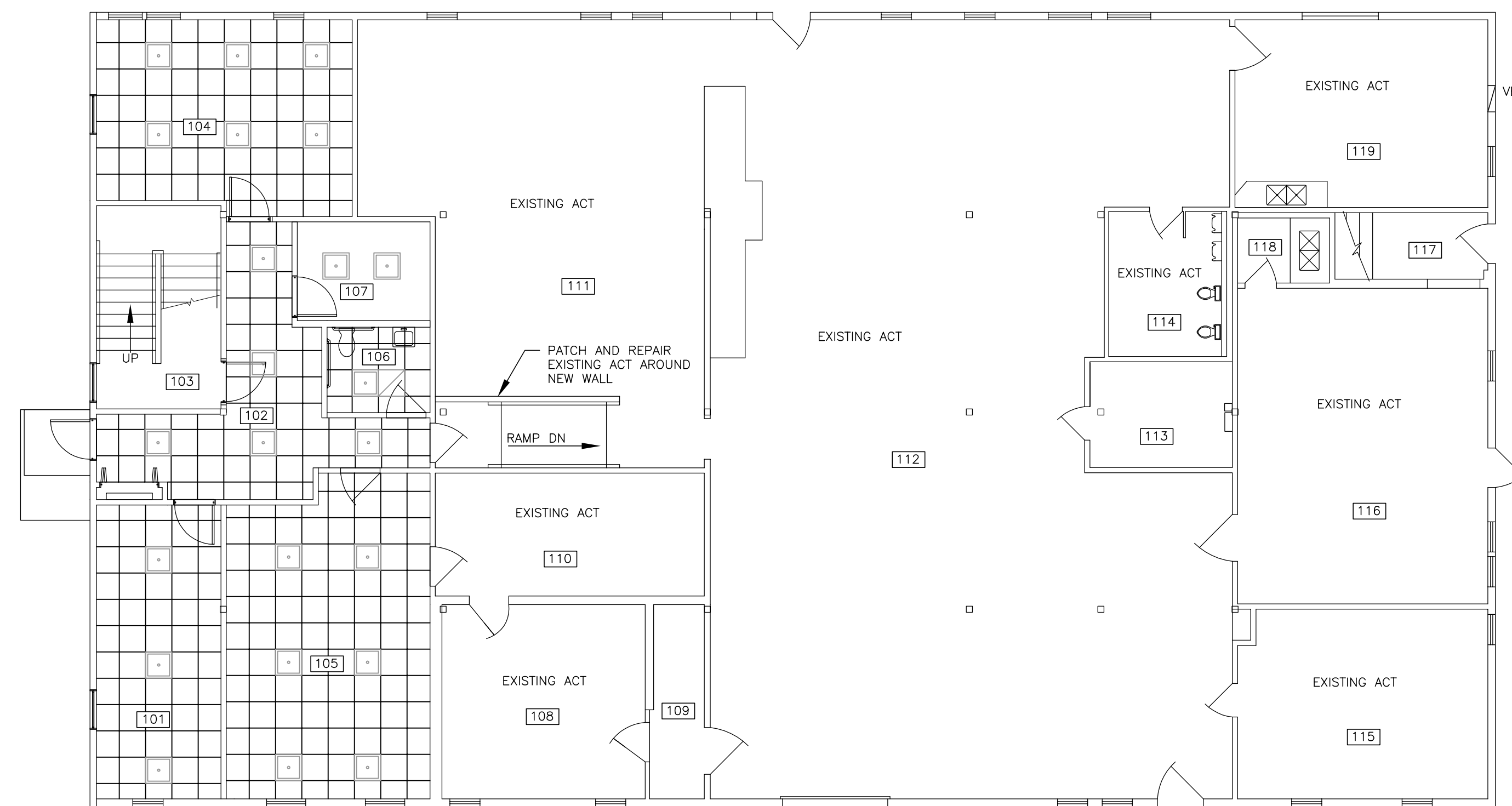
SHEET ID:
 A-101
 SHEET: 15 OF 33





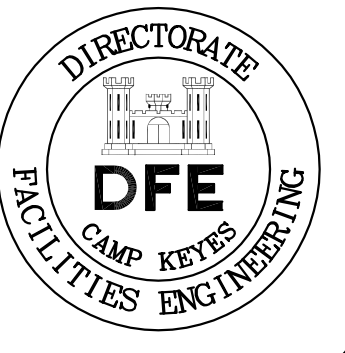
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0 4' 8 16'
SCALE: 1/8" = 1'-0"



BUILDING No. 8 FIRST FLOOR CEILING PLAN

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SCALE: 1/8" = 1'-0"



PLAN REVISIONS		
Rev#	Description	Date
1	GENERAL REVISIONS	1/28/19

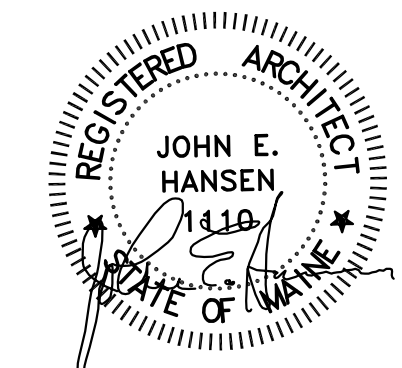
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CHECKED BY: MAD	DFE PROJECT NO: 235R18-456-D

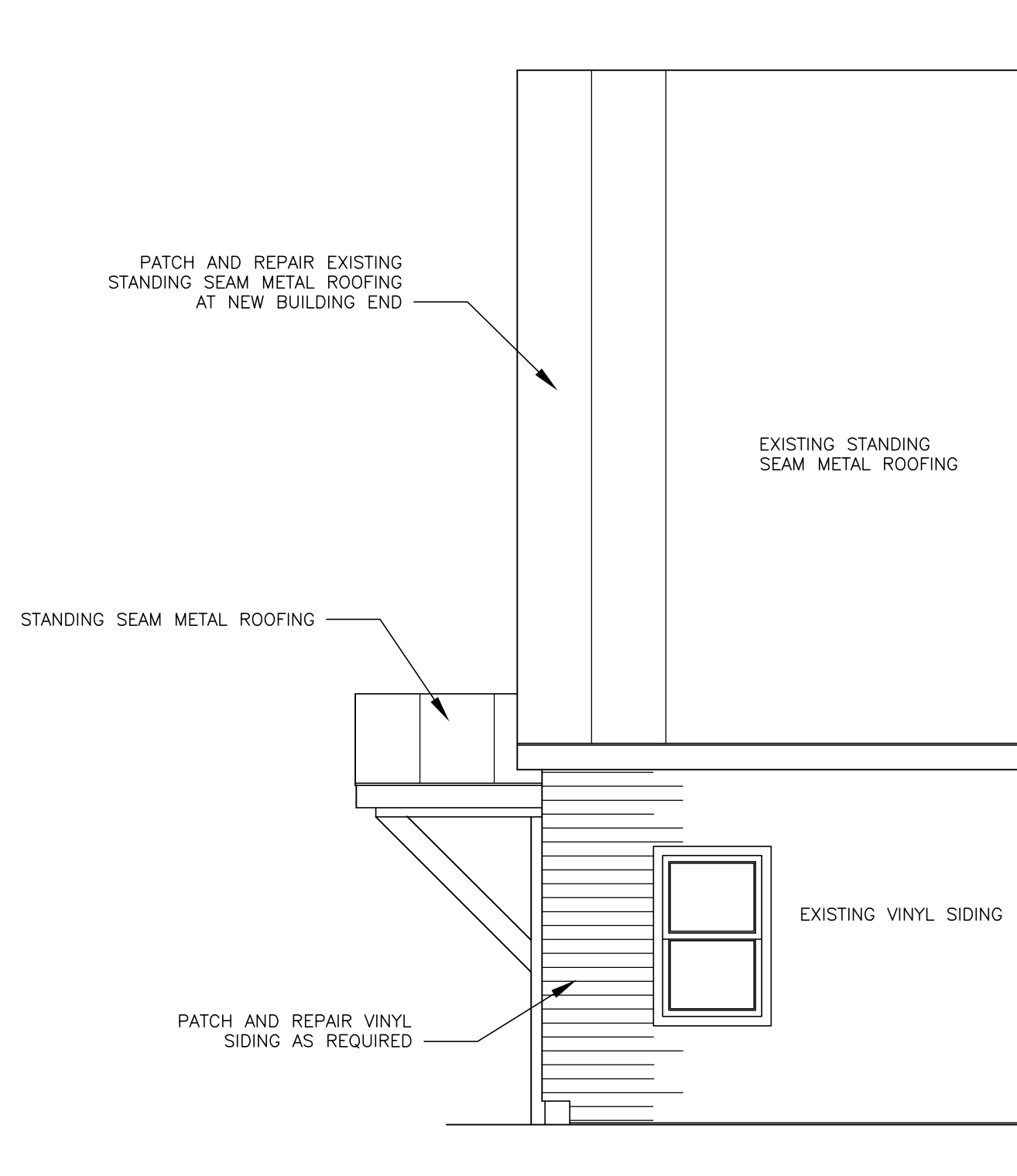
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CAMP KEYES, AUGUSTA, MAINE
BUILDING No. 8 RENOVATIONS
PROPOSED CEILING PLANS
FIRST AND SECOND FLOORS

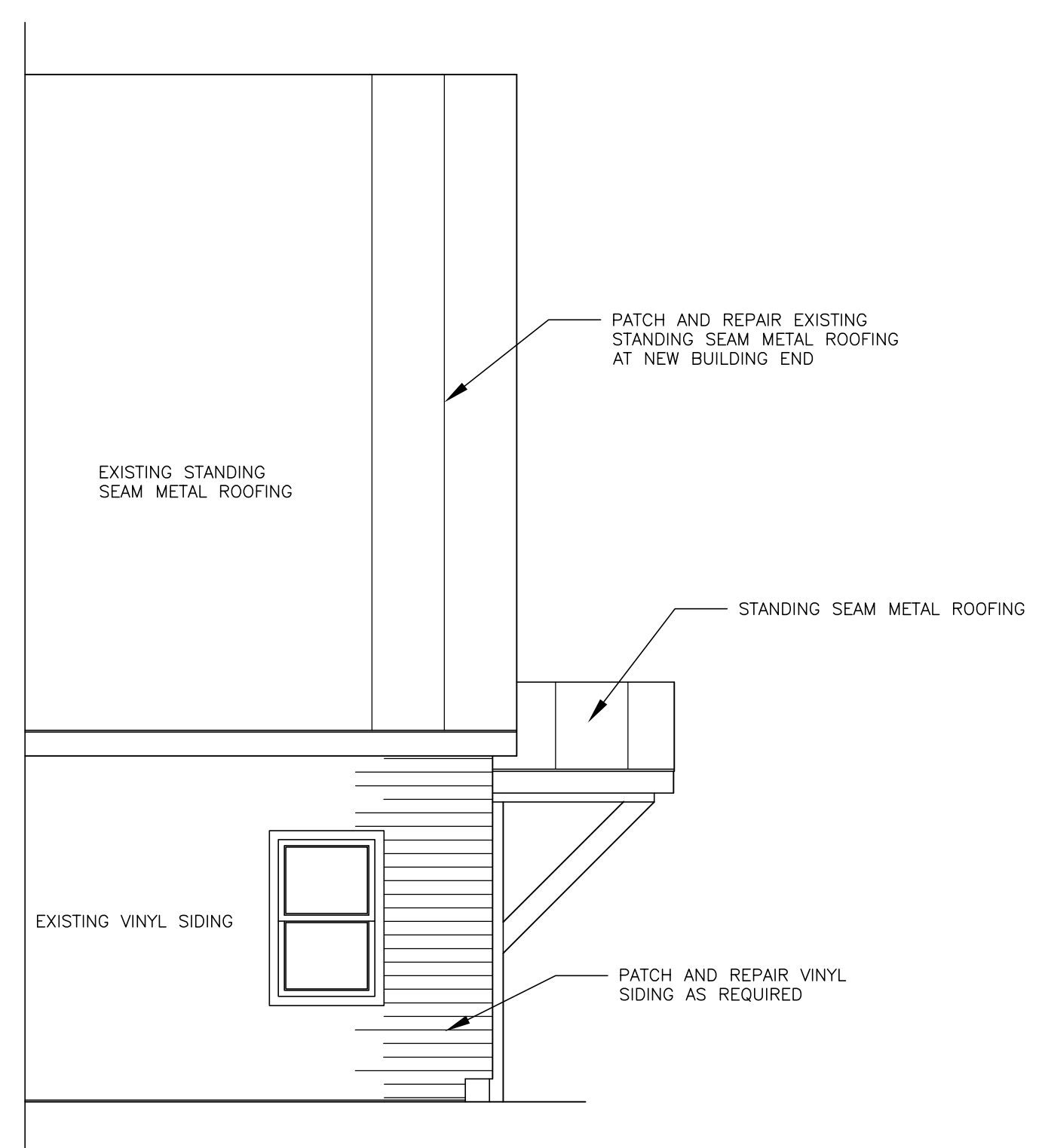
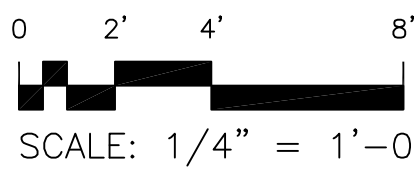
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SHEET: 16 OF 33

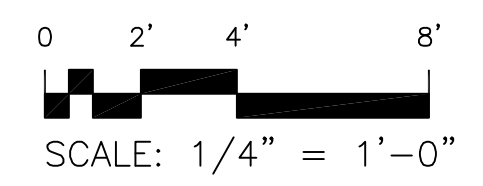




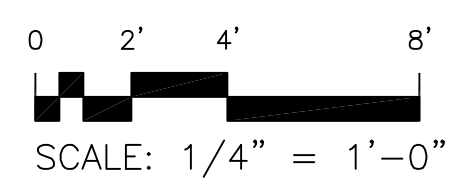
EAST ELEVATION



WEST ELEVATION



SOUTH ELEVATION



PLAN REVISIONS		Date	Appr.
1	GENERAL REVISIONS	1/28/19	
Rev#	Description		

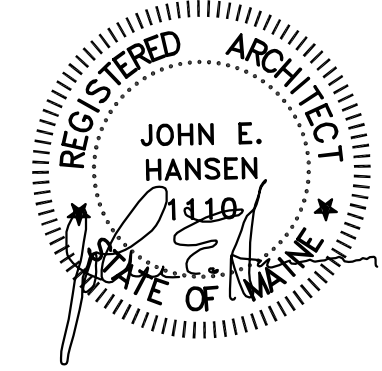
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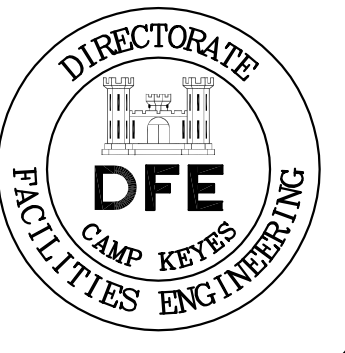
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CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING No. 8 RENOVATIONS
 ELEVATIONS

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- DRAFT
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 - 95% REVIEW
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 - RECORD DRAWINGS

SHEET ID:
 A-401
 SHEET: 19 of 33





Rev#	Description	Date	Appr.
1	GENERAL REVISIONS	1/28/19	

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 DRAWN BY: CMC
 CHECKED BY: MAD
 DATE: 12/28/2018
 SCALE: AS NOTED
 DFE PROJECT NO: 23SR18-456-D

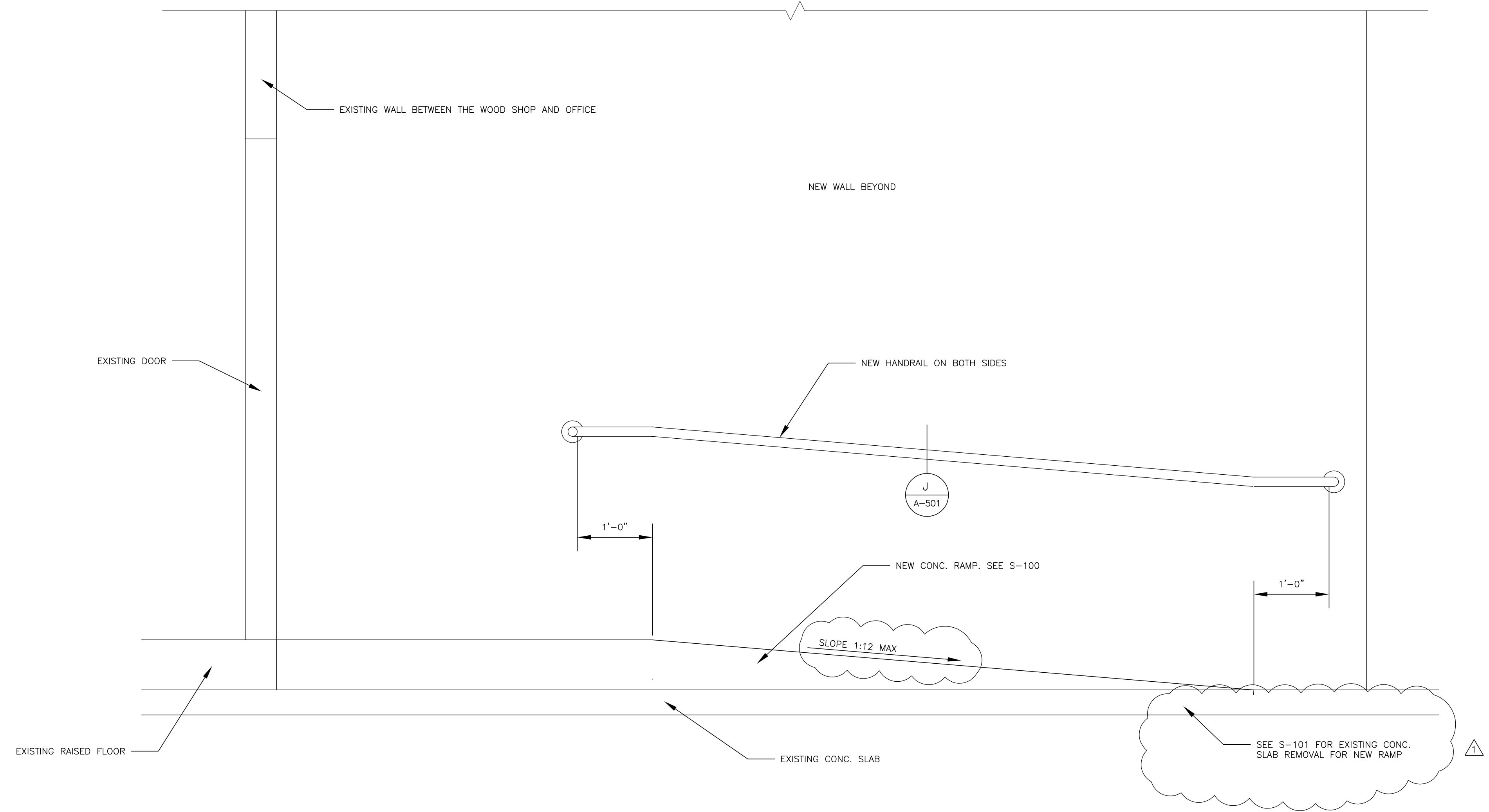
STATE OF MAINE
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 John E. Hansen, Architect
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CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING No. 8 RENOVATIONS

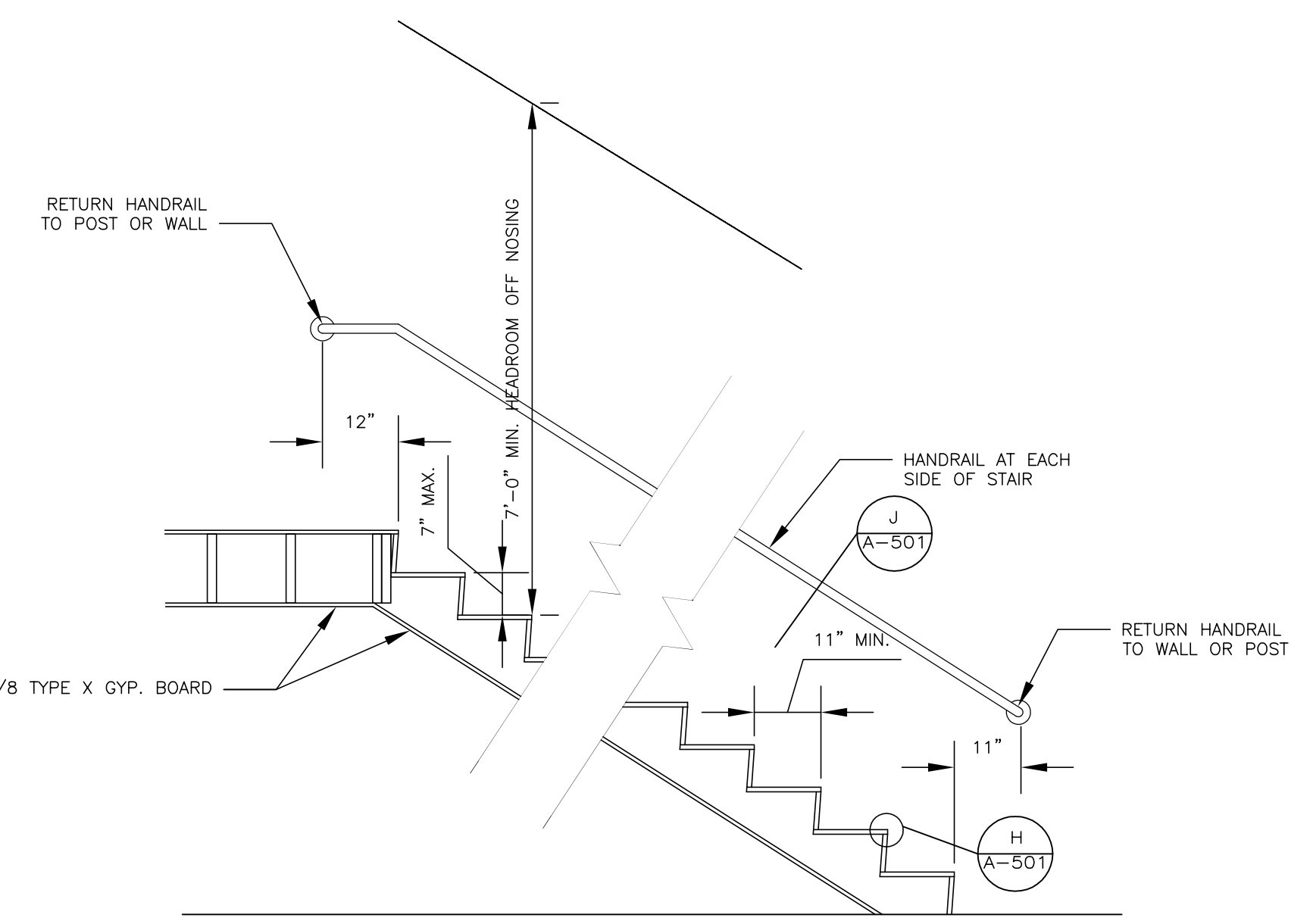
DETAILS

- PLAN PROGRESS
- DRAFT
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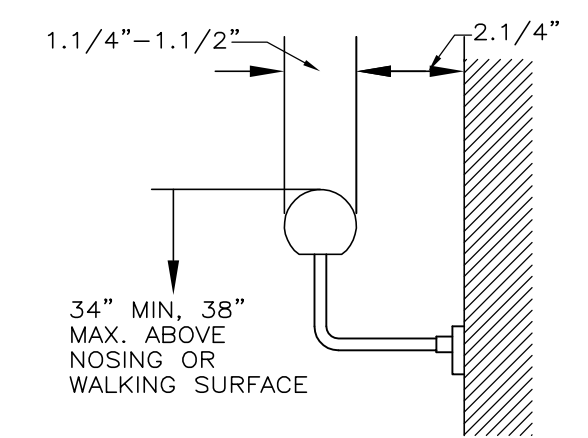
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 SHEET: 20 OF 33



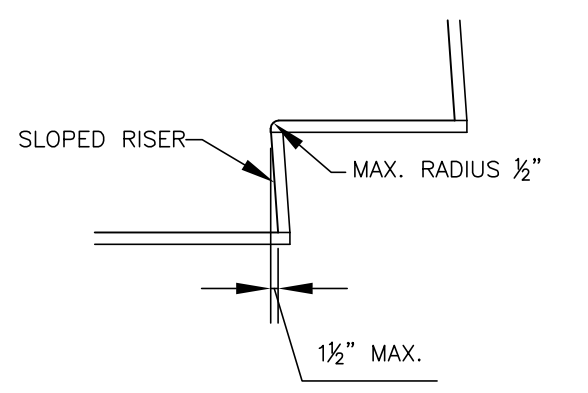
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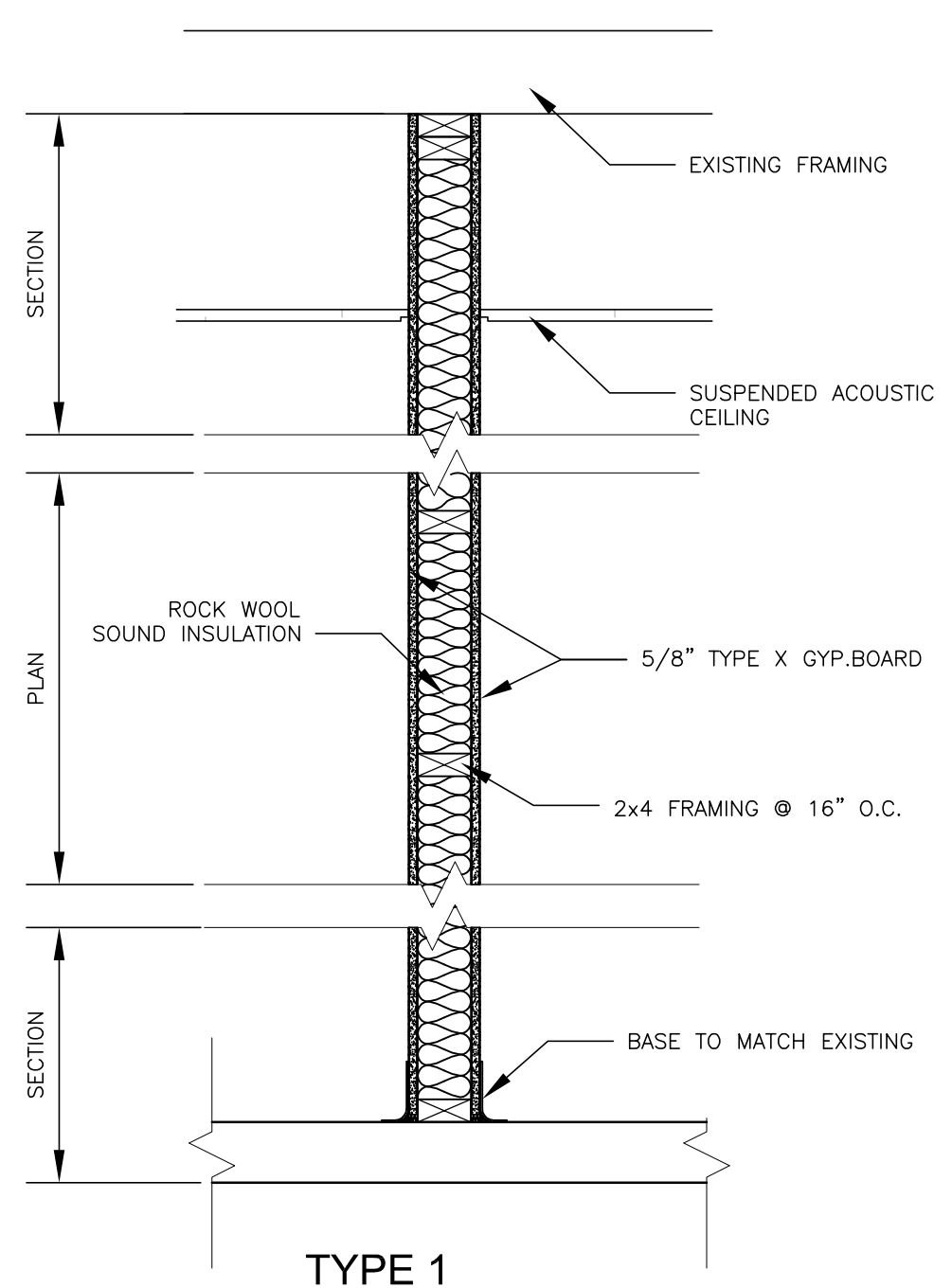
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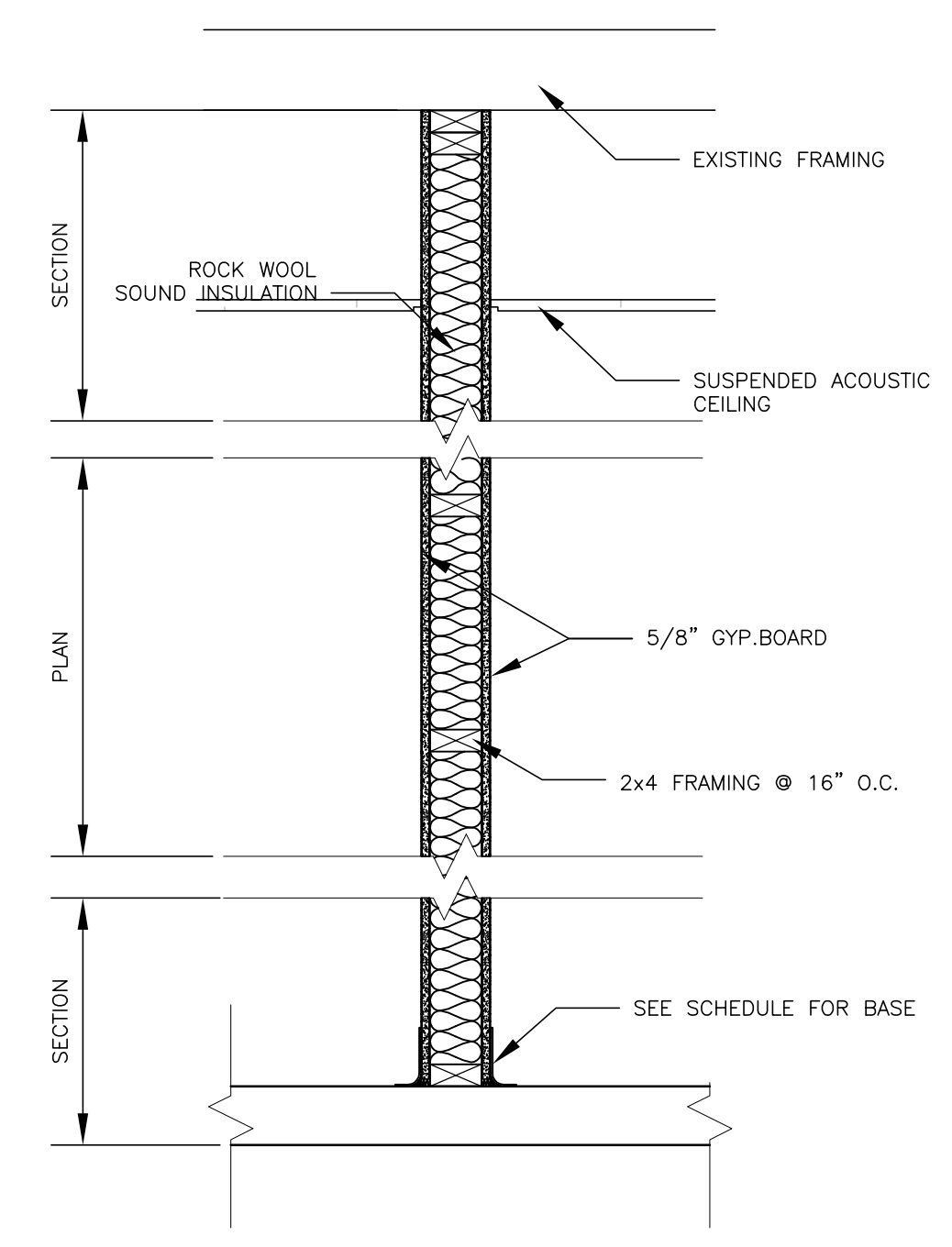
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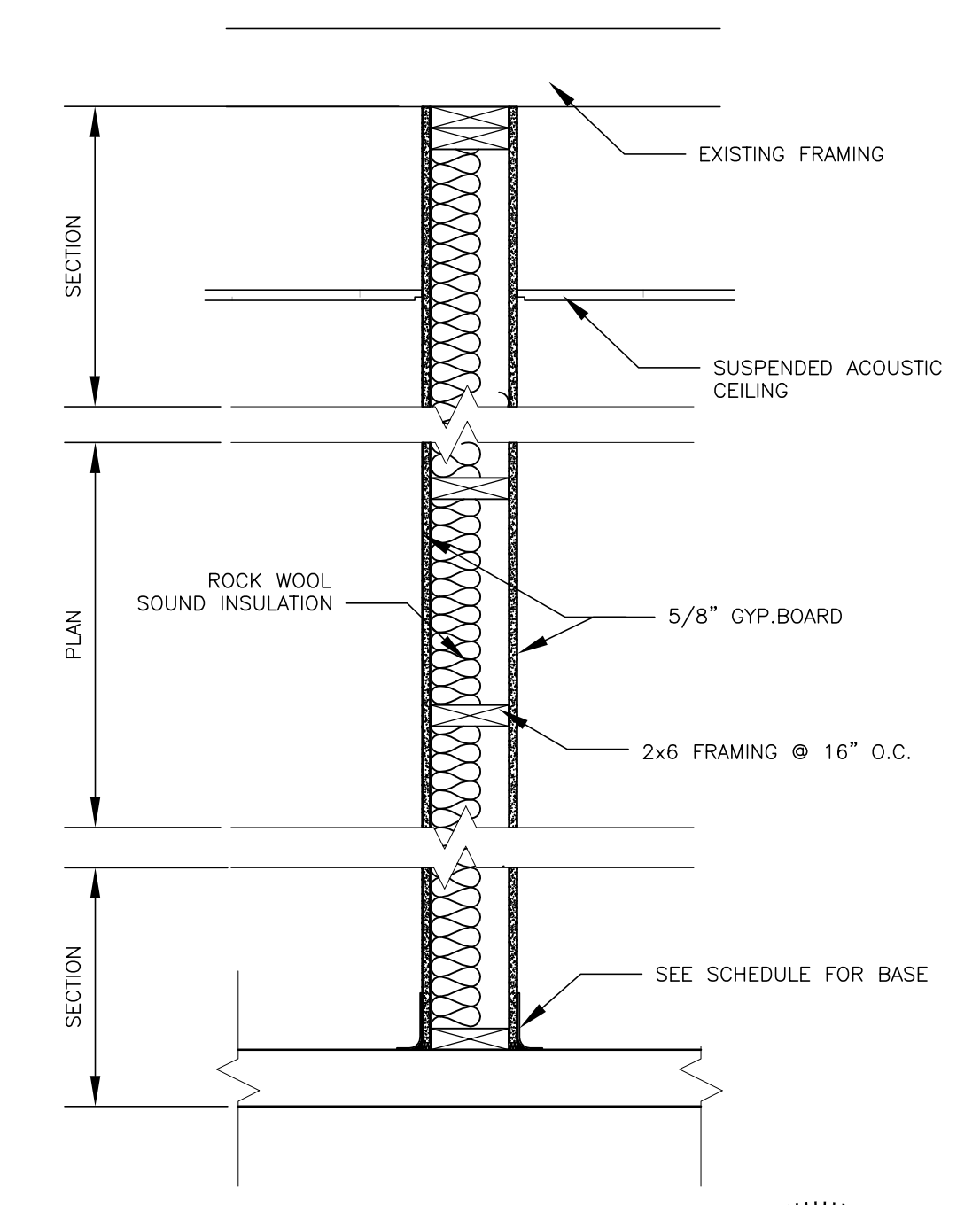
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 SCALE: 1" = 1'-0"



TYPE 1
 1 HR. RATED WALL
 FIRE TEST : DESIGN U305

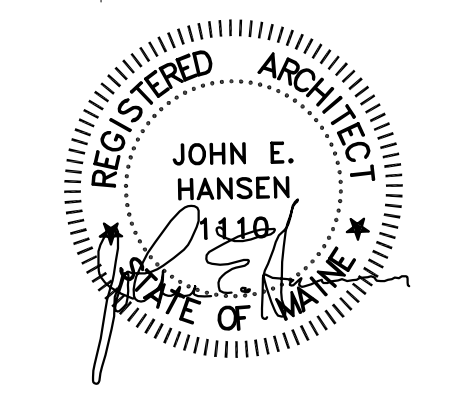


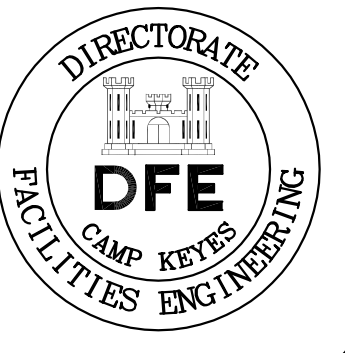
TYPE 2



TYPE 3

INTERIOR WALL TYPES
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Rev#	Description	Date	Appr.
1	GENERAL REVISIONS	12/28/19	

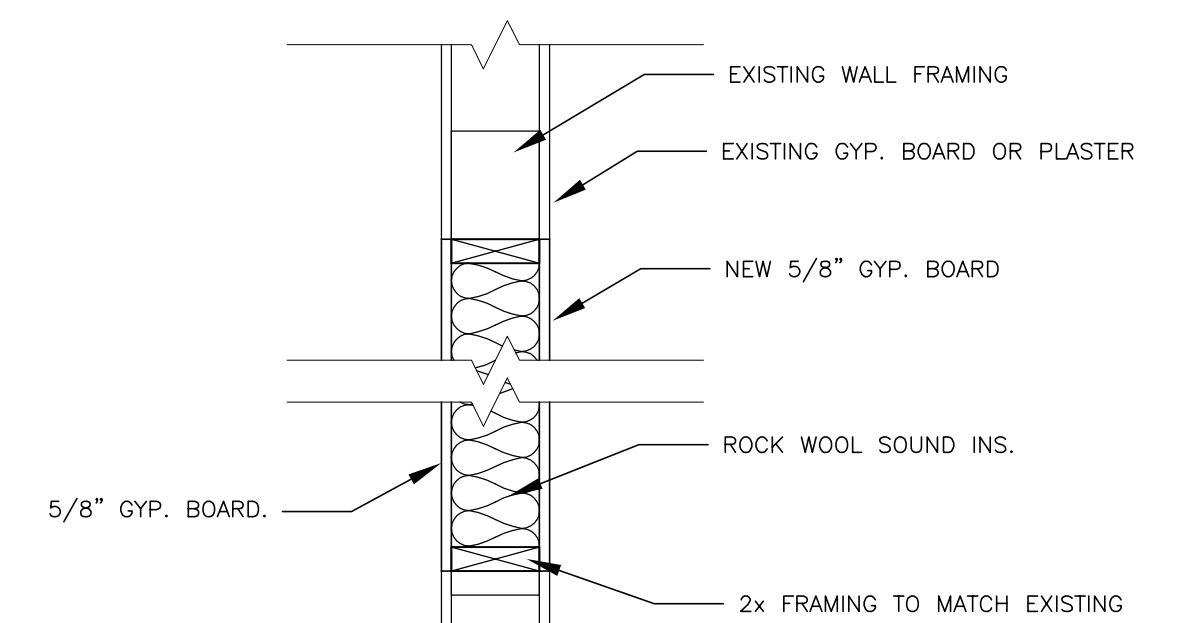
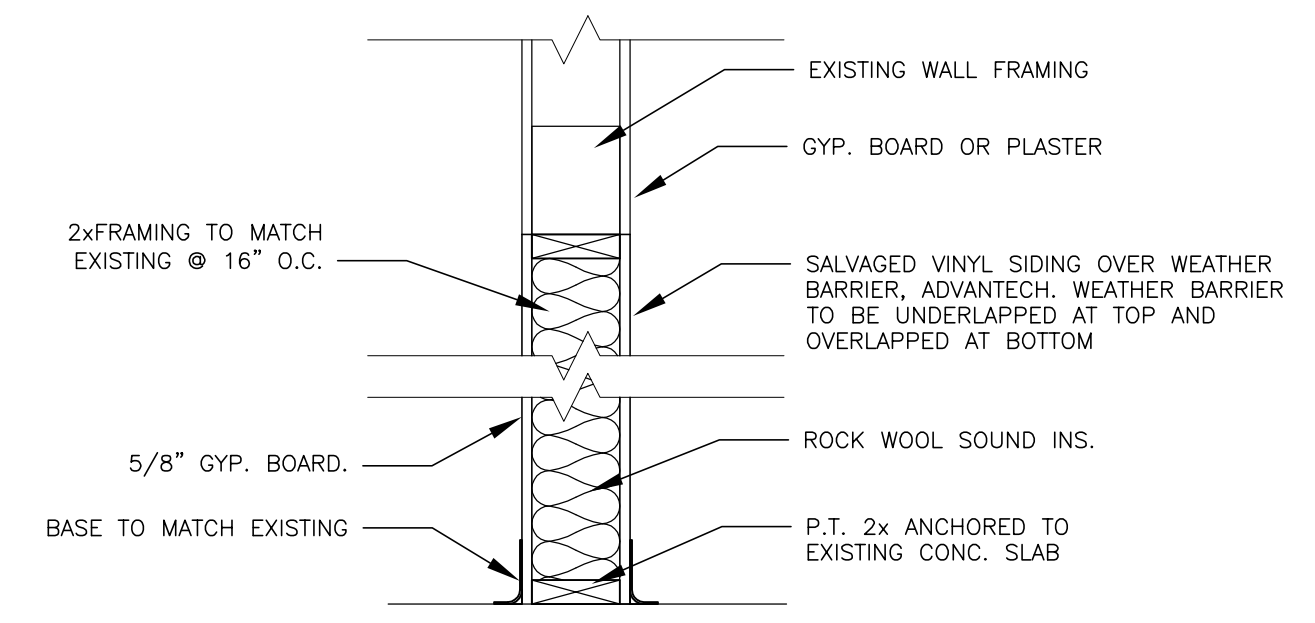
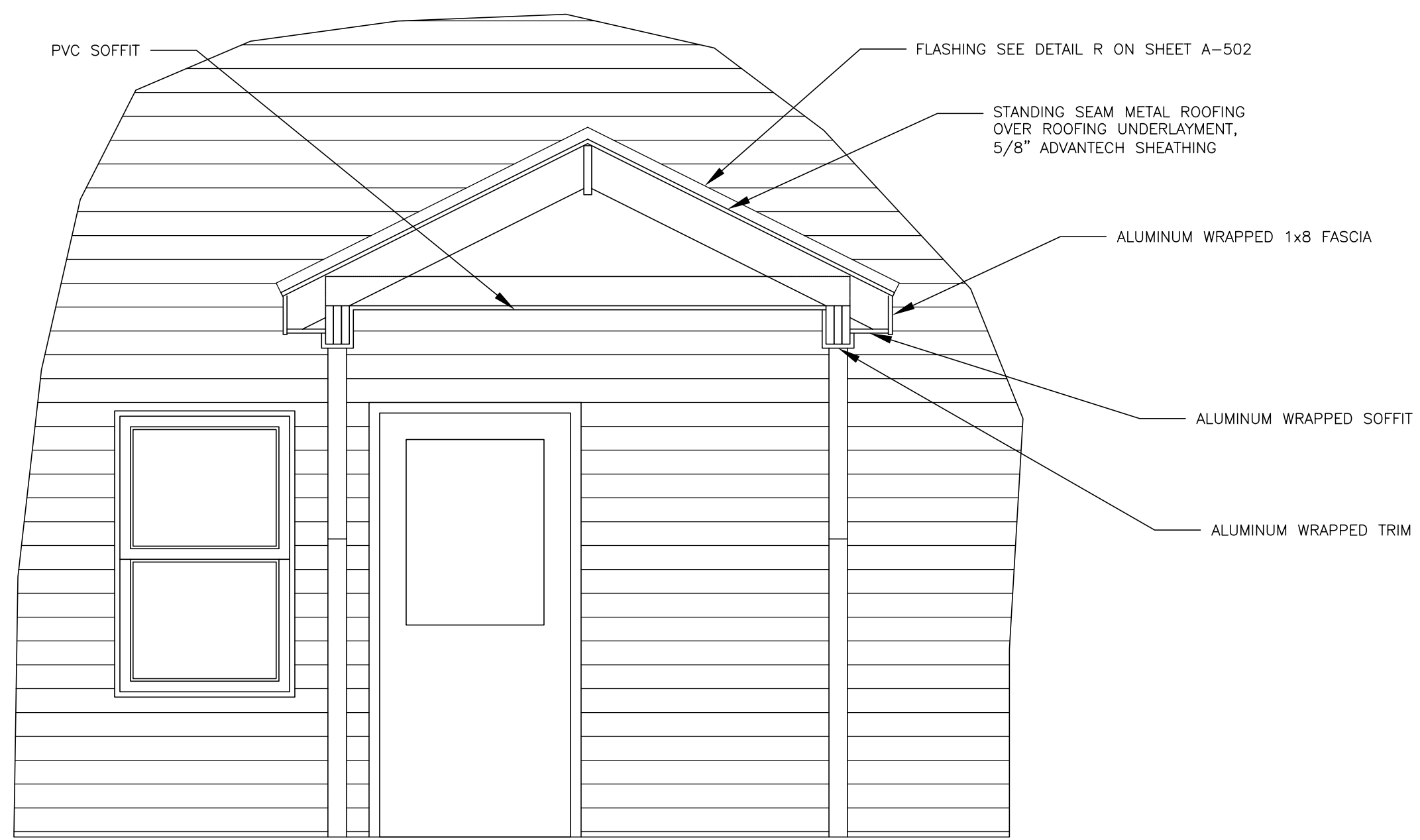
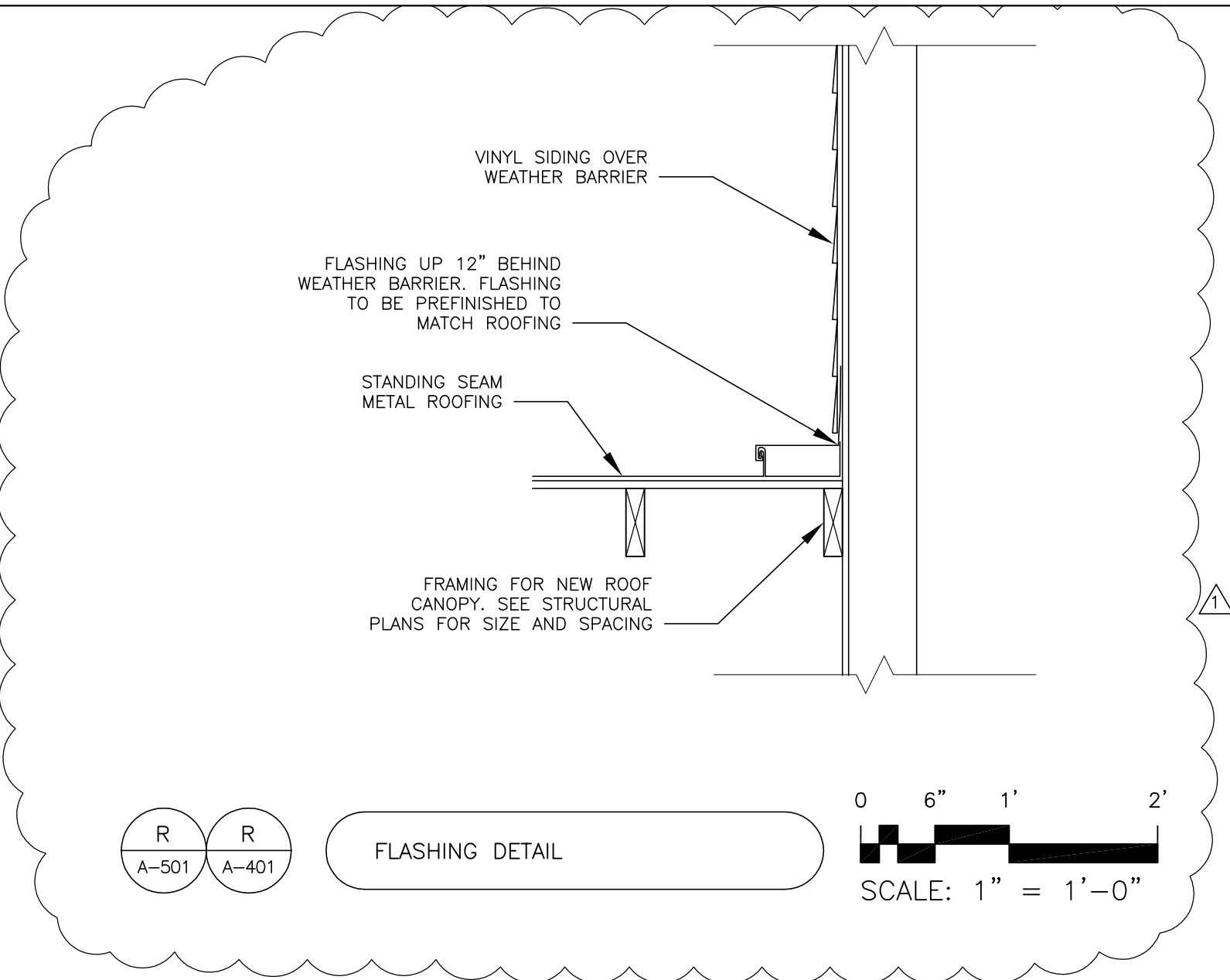
DESIGNED BY: JEH	DRAWN BY: CMC	CHECKED BY: MAD	DATE: 12/28/2018
SCALE: AS NOTED	DFE PROJECT NO: 235R18-456-D		

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 CAMP KEYES, AUGUSTA, MAINE
 BUILDING No. 8 RENOVATIONS
 DETAILS

PLAN PROGRESS	
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<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
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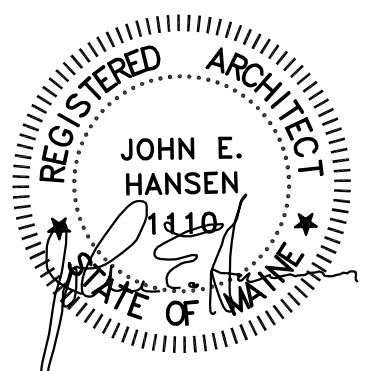
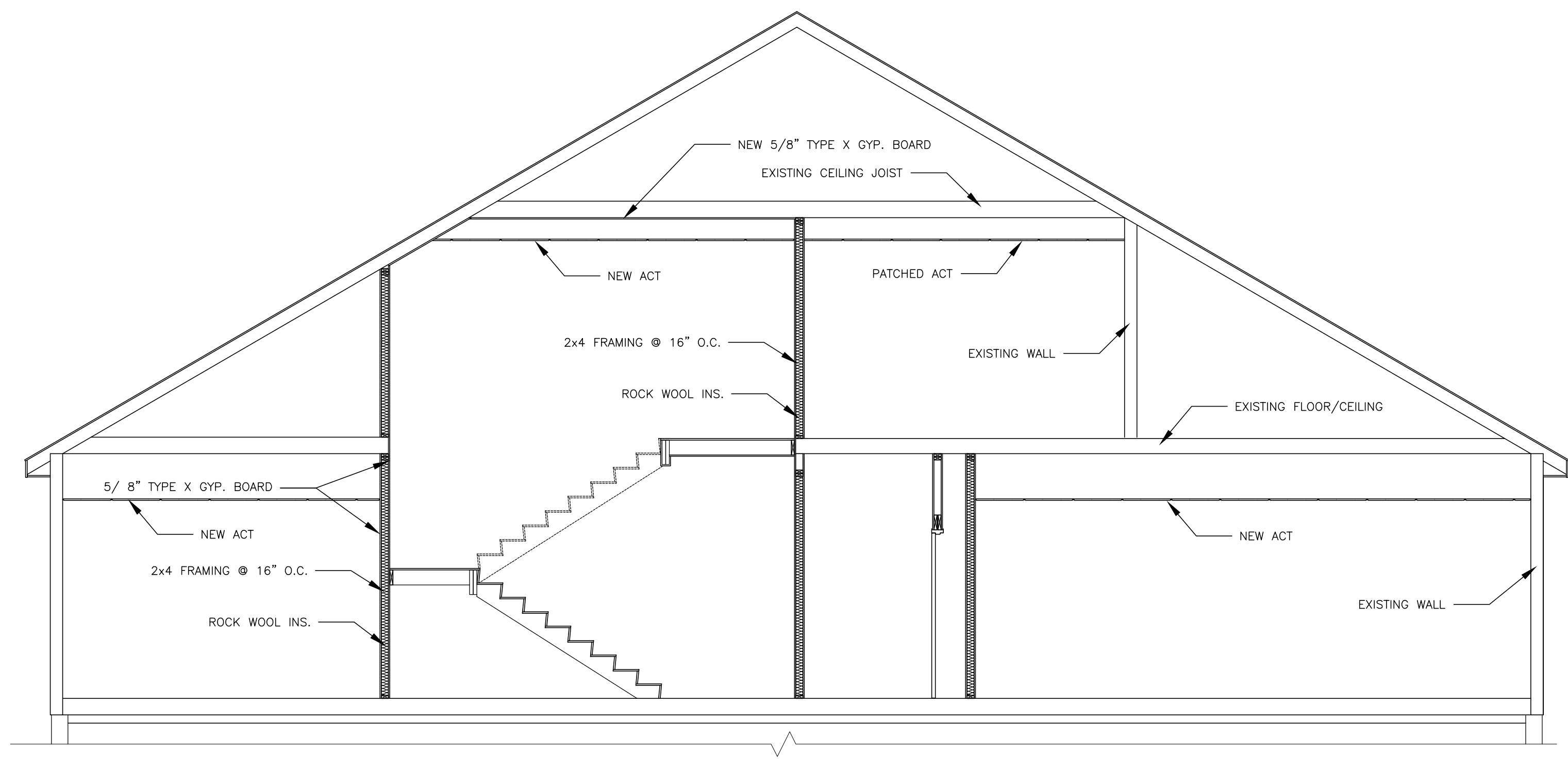
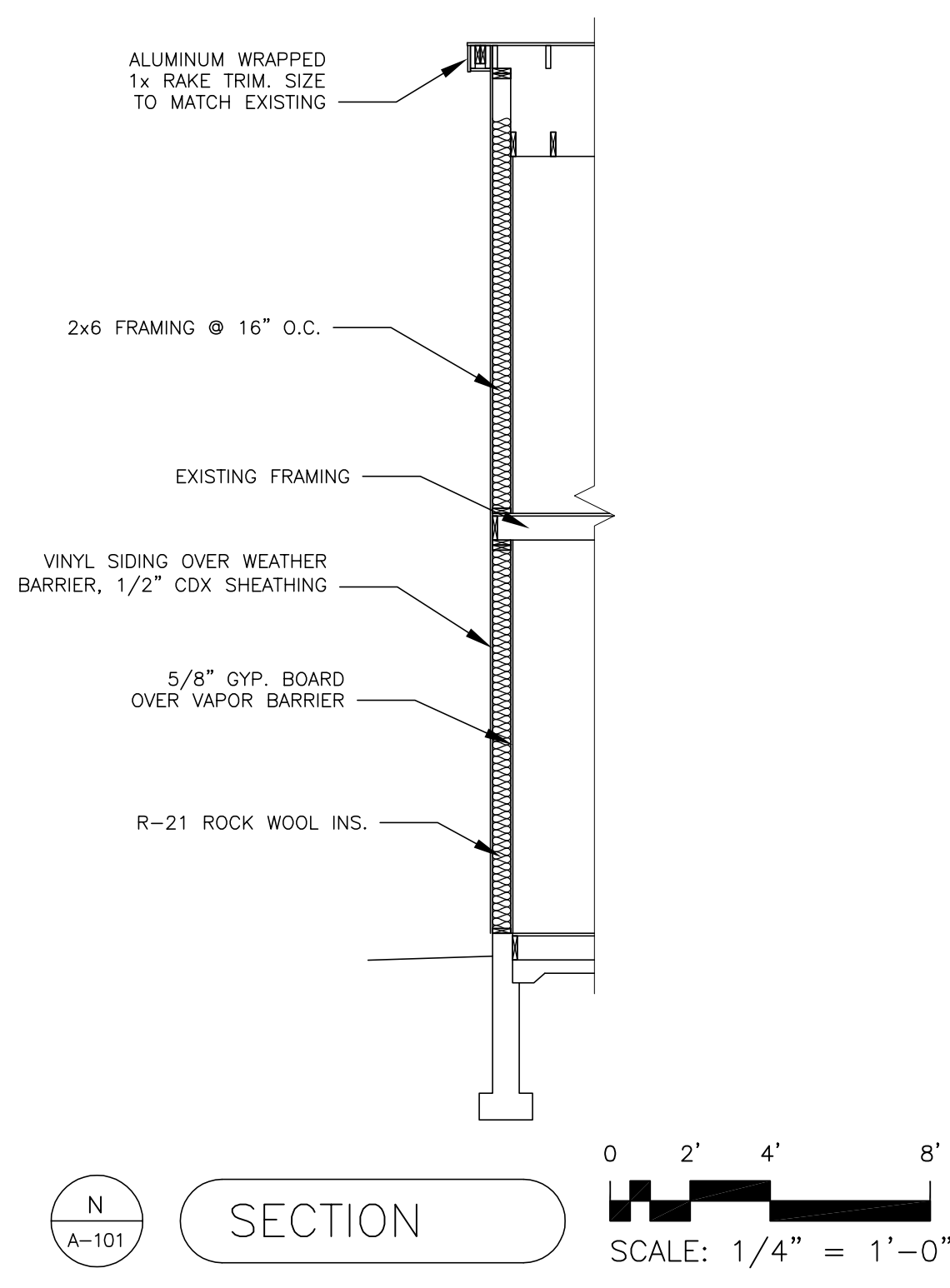
SHEET ID:
A-502
 SHEET: 21 of 33



NOTE:
 SHIM AND BLOCK AS REQUIRED TO HAVE NEW GYP. BOARD FINISH SURFACE ALIGN WITH EXISTING FINISH SURFACE.

NOTE:
 EXTERIOR SHEATHING THICKNESS TO MATCH EXISTING SHEATHING THICKNESS.

NOTE:
 SHIM AND BLOCK AS REQUIRED TO HAVE NEW GYP. BOARD FINISH SURFACE ALIGN WITH EXISTING FINISH SURFACE.





LEGEND

120	120 DEG F HOT WATER	IDW	INDIRECT WASTE		SANITARY / WASTE PIPING ABOVE SLAB
●	AT	IM	ICE MAKER		
A	AMPS, AQUASTAT	LT	LAUNDRY TUB		SANITARY/ WASTE PIPING BELOW SLAB
ADA	AMERICANS WITH DISABILITIES ACT	LV	LAVATORY		VENT PIPING ABOVE SLAB
AFF	ABOVE FINISHED FLOOR	M	METER		VENT PIPING BELOW SLAB
AP	ACCESS PANEL	MTD	MOUNTED		
BFP	BACKFLOW PREVENTER	MV	MIXING VALVE		
BLV	BALL VALVE	NB	NICKEL BRONZE		
BV	BALANCE VALVE	PC	PLUMBING CONTRACTOR		COLD WATER PIPING
CNTR	COUNTER	PDI	PLUMBING & DRAINAGE INSTITUTE		120 HOT WATER PIPING
CO	CLEANOUT	PG	PRESSURE GAUGE		GAS PIPING ABOVE SLAB
CONT	CONTINUATION	PH	PHASE		COMPRESSED AIR PIPING
COORD	COORDINATION	PRV	PRESSURE REDUCING VALVE		
COTG	CLEANOUT TO GRADE	PSI	POUNDS PER SQUARE INCH		BALL VALVE
CW	COLD WATER, CLOTHES WASHER	RAW	RISE AT WALL		CHECK VALVE
C&HW	COLD & HOT WATER	RD	ROOF DRAIN		RELIEF VALVE
DAW	DROP AT WALL	RH	RIGHT HAND		
DCP	DOMESTIC CIRCULATING PUMP	RIC	RISE IN CHASE		PRESSURE REDUCING VALVE
DEG	DEGREES	RIW	RISE IN WALL		
DIC	DROP IN CHASE	RUC	RUN UNDER COUNTER		THERMOMETER
DIW	DROP IN WALL	RUF	RUN UNDER FLOOR		
DN	DOWN	RV	RELIEF VALVE		PRESSURE GAUGE
DN&U	DOWN AND UP	S	SANITARY WASTE		
DNW	DOWN IN WALL	SA	SHOCK ABSORBER		DROP/RISE IN LINE
DO	DRAWOFF	SH	SHOWER		
DW	DISHWASHER	SK	SINK		LINE UP TO FLOOR ABOVE
EA	EACH	SS	STAINLESS STEEL		
ET	EXPANSION TANK	T	THERMOMETER		TEE - DROP
FCO	FLOOR CLEANOUT	T.P.	TRAP PRIMER		
FD	FLOOR DRAIN	TYP	TYPICAL		SHOCK ABSORBER
FFE	FINISHED FLOOR ELEVATION	UIC	UP IN CHASE		
FV	FLUSHVALVE	U&DNIC	UP & DOWN IN CHASE		UNION
G	GAS (FUEL)	U&DNW	UP & DOWN IN WALL		
GAL	GALLONS	UW	UP IN WALL		MIXING VALVE
GC	GENERAL CONTRACTOR	V	VENT		
GHT	GARDEN HOSE THREAD	VB	VACUUM BREAKER		FLOOR CLEANOUT
GPF	GALLONS PER FLUSH	VC	VITREOUS CHINA		
GV	GATE VALVE	VIF	VERIFY IN FIELD		FLOOR DRAIN
GW	GEAR WASHER	VRV	VACUUM RELIEF VALVE		
HB	HOSE BIB	VTR	VENT THRU ROOF		VENT THROUGH ROOF
HC	HEATING CONTRACTOR	W	WASTE		
HW	HOT WATER	W/	WITH		HOSE BIB
HWR	HOT WATER RETURN	WC	WATER CLOSET, WATER COLUMN		
IE	INVERT ELEVATION	WCO	WALL CLEANOUT		PLUMBING FIXTURE/ EQUIPMENT NUMBER TAG
		WSI	WARM SIDE OF INSULATION		
		XX-1			CONNECT TO EXISTING

PLUMBING FIXTURE SCHEDULE

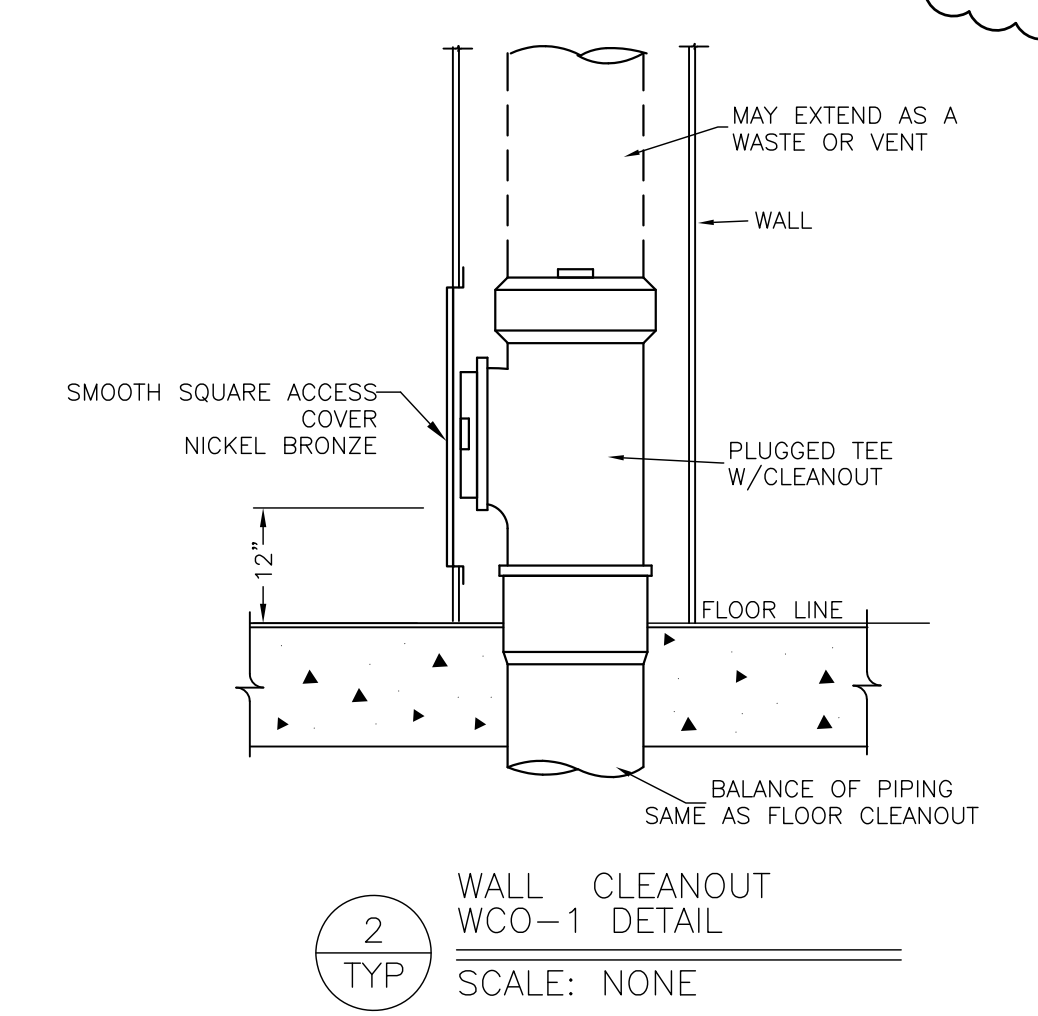
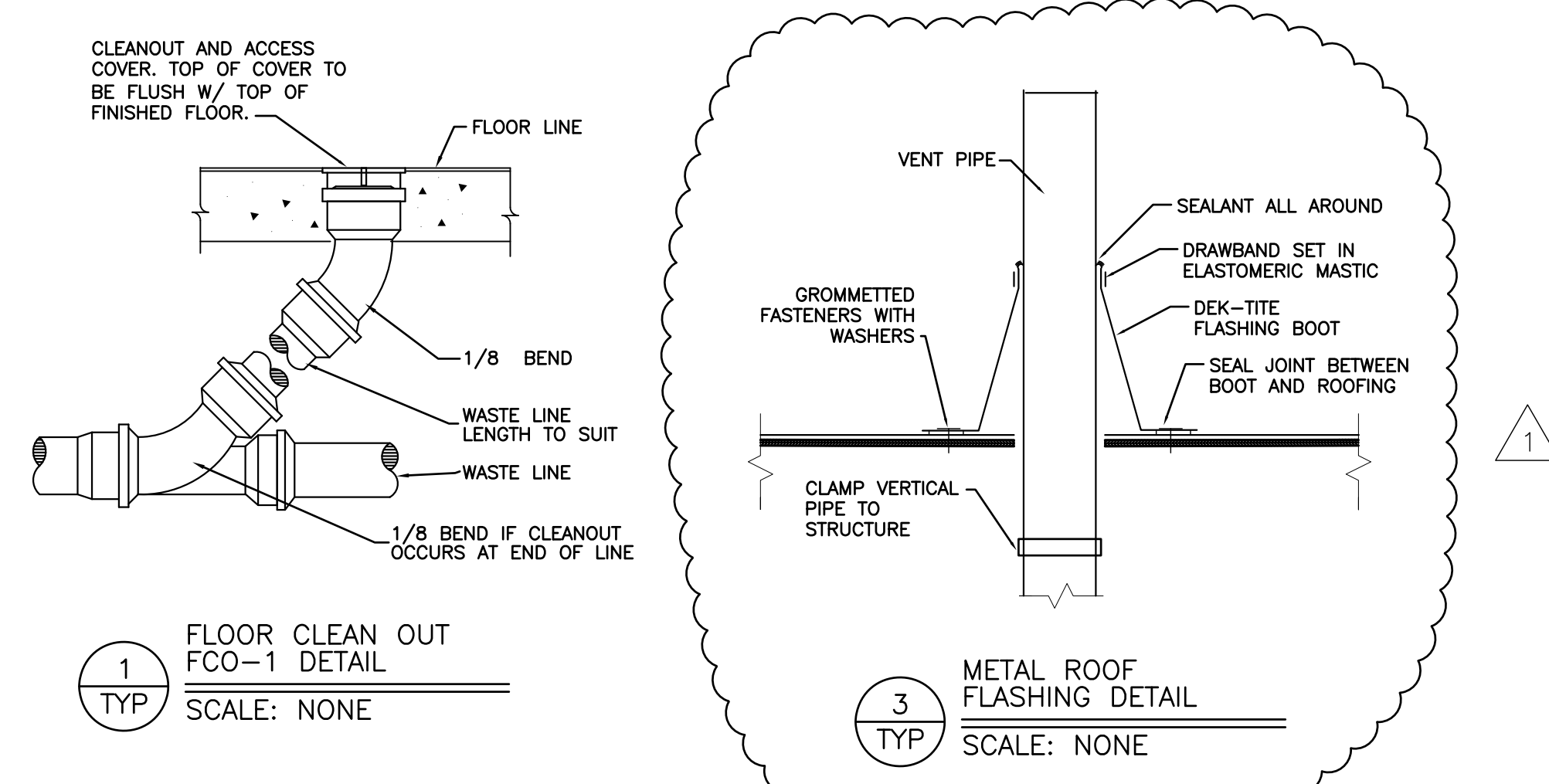
TAG	FIXTURE	COLD WATER	HOT WATER	SAN/WASTE	VENT	REMARKS
LV-1	LAVATORY, WALL HUNG ADA	1/2"	1/2"	1 1/2" x 1 1/2"	1 1/2"	VC, SINGLE HANDLE FAUCET, 0.5 GPM W/ ADA GUARD 34" TO RIM
WC-1	WATER CLOSET FLOOR-MOUNT ADA	1/2"	-	3"	2"	RIGHT HAND FLUSH LEVER 16 1/2" HEIGHT

DRAIN SPECIALTIES SCHEDULE

TAG	ITEM	WASTE	VENT	REMARKS
FCO-1	ROUND, FINISHED AREA FLOOR CLEANOUT	SIZE OF PIPE	-	ADJUSTABLE
WCO-1	ROUND, FINISHED AREA WALL CLEANOUT	SIZE OF PIPE	-	ADJUSTABLE

WATER SPECIALTIES SCHEDULE

TAG	ITEM	CW	HW	OUTLET	REMARKS
SA-1	SHOCK ABSORBER	1/2" OR 3/4"	-	-	P.D.I. A



NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE PLUMBING CODE, LOCAL CODES AND ORDINANCES, NATIONAL FIRE CODE (NFPA), OR THESE PLANS OR SPECIFICATIONS, WHICHEVER IS MORE STRICT.
- ALL DRAWINGS ARE SCHEMATIC ONLY, AND ARE INTENDED TO INDICATE THE INTENT, EXTENT, AND GENERAL ARRANGEMENT OF WORK. THEY ARE NOT MEANT TO SHOW EVERY FITTING, CHANGE OF DIRECTION OR EVERY SITUATION. VERIFY LOCATIONS IN THE FIELD. WORK INDICATED SHALL BE FURNISHED COMPLETE TO PERFORM THE FUNCTION INTENDED.
- CAREFULLY COORDINATE THE SPACE REQUIREMENTS AND LOCATION OF PIPING WITH THE OTHER TRADE CONTRACTORS. IF COORDINATION FAILS, CONFLICTS WILL BE DECIDED IN FAVOR OF THE OTHER CONTRACTORS WITH THIS CONTRACTOR RELOCATING HIS PIPING AND EQUIPMENT AT NO EXPENSE TO THE OWNER.
- ALL PLUMBING FIXTURES SHALL BE VENTED.
- THIS CONTRACTOR SHALL MAKE ALL FINAL PLUMBING CONNECTIONS TO EQUIPMENT/ FIXTURES PROVIDED BY OTHER CONTRACTORS.
- FOR PIPE SIZES NOT SHOWN ON FLOOR PLANS, REFER TO: ADJACENT OR ENLARGED PLUMBING PLANS, THEN APPROPRIATE SCHEDULES, DETAILS, SPECIFICATIONS, EQUIPMENT CONNECTION SIZES AND MINIMUM CODE REQUIREMENTS. FOR OTHERWISE INDETERMINABLE PIPE SEGMENTS, THE SIZE SHALL BE THE SAME AS THE LARGEST ADJACENT SEGMENT. WHERE PIPE SIZES ARE ERRONEOUSLY SHOWN TO DECREASE THEN INCREASE, THE SMALLER SEGMENT SHALL BE INCREASED TO MATCH THE LARGER SEGMENT. WHEN A CONFLICT EXISTS, THE LARGER SIZE SHALL GOVERN. PIPE SIZES ARE NOMINAL (NOT O.D.) UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL PIPING SHALL RUN CONCEALED ABOVE CEILINGS, IN WALLS, IN SOFFITS AND IN CHASES UNLESS NOTED OTHERWISE. SPECIAL CARE SHALL BE TAKEN WHEN DROPPING 3" NOMINAL PIPE IN 3-1/2" WALL CAVITIES TO ENSURE CORRECT FIT AND ALIGNMENT.
- LEAD CONTAINING PAINT IS PRESENT ON PAINTED SURFACES. REFER TO APPENDIX 1 - AVAILABLE HAZARDOUS MATERIAL IDENTIFICATION REPORT, TABLE 2, WITHIN SPECIFICATION SECTION 02 82 13 ASBESTOS ABATEMENT, FOR A LISTING OF LEAD-BASED PAINT TESTING RESULTS; HANDLING OF COMPONENT COATED WITH LEAD-CONTAINING PAINT AT ANY CONCENTRATION DURING REMOVALS AND ALTERATIONS REQUIRE COMPLIANCE WITH OSHA LEAD STANDARD (LEAD IN CONSTRUCTION, 29 CFR 1926.62)
- ALL PLUMBING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. ALL PIPING DROPS TO FIXTURES SHALL BE ANCHORED SOLID TO WALLS WITH A STEEL SUPPORT BRACKET WITH ADJUSTABLE CLIP.
- ALL WATER PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS. PROVIDE DRAW-OFFS AT LOW POINTS. PIPING SHALL BE RUN NEATLY GROUPED TOGETHER WHEN PRACTICAL. ALLOW ROOM BETWEEN ALL PIPING AND OTHER OBSTRUCTIONS TO ALLOW FOR THE INSTALLATION OF THE SPECIFIED PIPE INSULATION.
- ALL PIPING THROUGH CONCRETE WALLS AND MASONRY PARTITIONS SHALL HAVE STEEL PIPE SLEEVES. OPENINGS BETWEEN PIPES AND SLEEVES SHALL BE CAULKED AND SEALED SMOKE AND WATER TIGHT. ALL PIPE PENETRATIONS THROUGH A FIRE RATED WALL OR FLOOR SHALL HAVE A UL RATED FIRE STOP SYSTEM RATED TO MATCH THE RATING OF THE WALL, AS PER THE NFPA.
- ALL WALL FIXTURES SHALL BE CARRIER MOUNTED UNLESS OTHERWISE SPECIFIED.
- ALL DOMESTIC WATER PIPING SHALL BE INSULATED UNLESS OTHERWISE SPECIFIED.
- RUN ALL PIPING ON WARM SIDE OF BUILDING INSULATION. NO WATER, OR WASTE LINES SHALL BE RUN IN EXTERIOR WALLS, UNLESS DIRECTLY INDICATED.
- PROVIDE SHOCK ABSORBERS WHERE SHOWN ON DRAWINGS, AND ON TOPS OF RISERS TO ALL FLUSH VALVES, DISHWASHERS AND CLOTHESWASHERS. SIZES SHALL CONFORM TO P.D.I. STANDARDS.
- ALL SANITARY WASTE PIPING LESS THAN 4" SHALL PITCH DOWN AT 1/8" PER L.F. ALL 4" AND LARGER PIPING SHALL PITCH AT 1/4" PER L.F. WHENEVER POSSIBLE. NO SANITARY/ WASTE PIPING UNDER SLAB SHALL BE LESS THAN 2" IN DIAMETER.
- ALL DOMESTIC COPPER WATER PIPING SHALL BE TYPE "K" OR "L" COPPER, TYPE "M" IS PROHIBITED.

PLANNED REVISIONS	Date	Appr.
1	1-28-19	
GENERAL REVISIONS		

DESIGNED BY: KFM
 DRAWN BY: REM
 CHECKED BY: KFM/MAD
 DATE: 12/28/2018
 SCALE: 1/8" = 1'-0"
 DFE PROJECT NO: 235F18-456-D

STATE OF MAINE
 DEPARTMENT OF DEFENSE, VETERANS
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Cordja Capital Projects Group
 16 Tannery Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdsj@cordjagroup.com

CAMP KEYES REUTILIZATION PROJECT
 CAMP KEYES, AUGUSTA, MAINE
 BUILDING NO. 8 RENOVATIONS

PLUMBING
 LEGENDS, NOTES & SCHEDULES

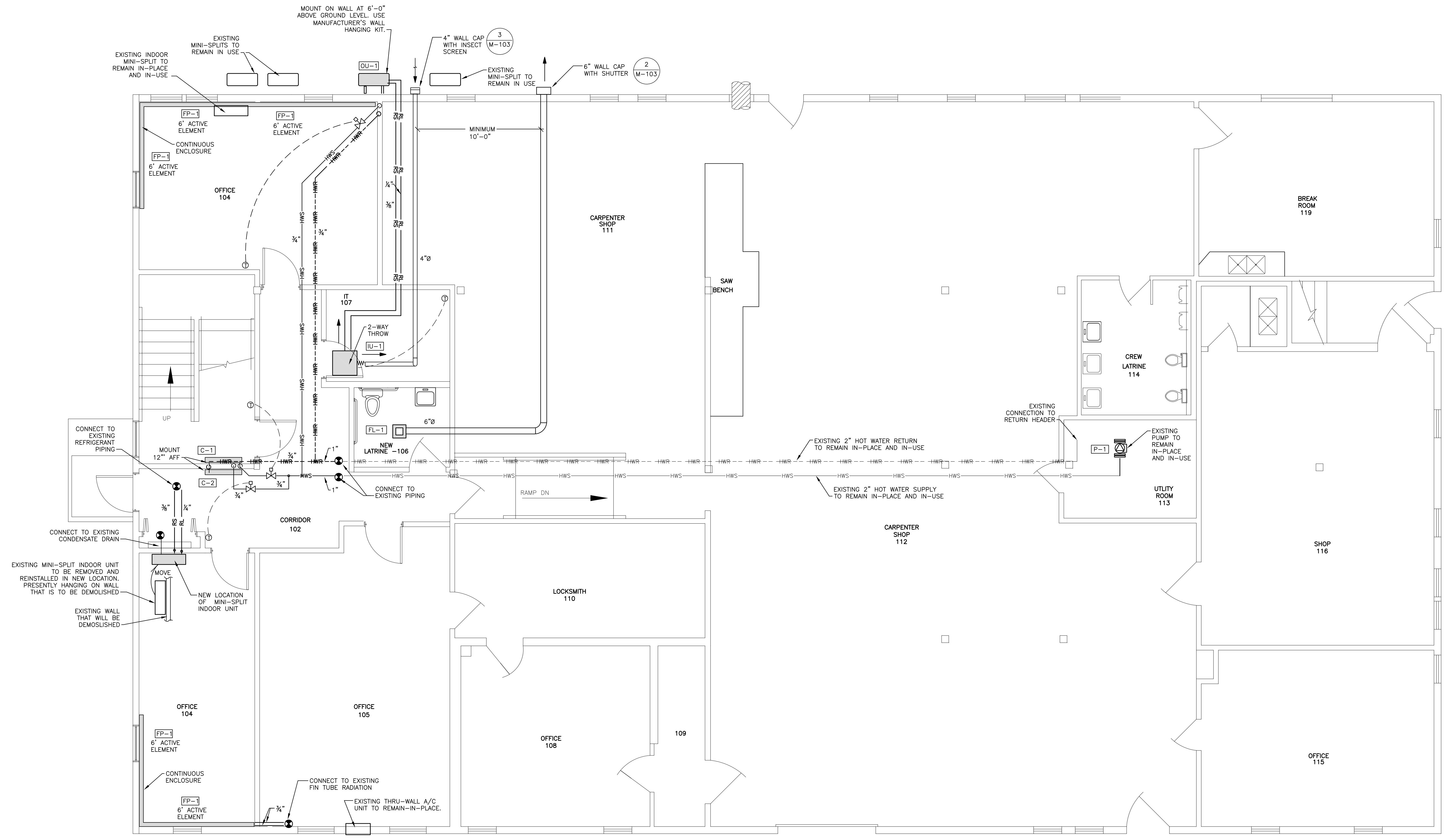
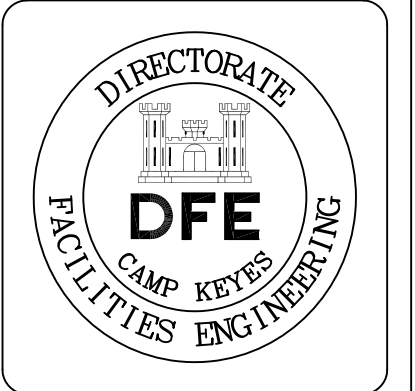
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SHEET ID:
 P-102
 SHEET: 23 OF 33



MECHANICAL SYSTEMS ENGINEERS
 ROYAL RIVER CENTER, UNIT 108
 10 FOREST FALLS DRIVE, YARMOUTH, MAINE 04866
 (207) 846-1441
 FACEBOOK: MECHANICAL SYSTEMS ENGINEERS
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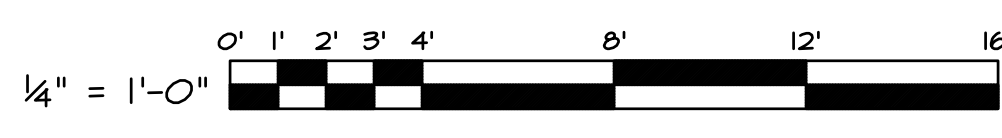


REMOVALS NOTES:

- INCLUDED IN THE SCOPE-OF-WORK IS THE REMOVAL AND STORAGE OF THREE (3) MINO-SPLIT HEAT PUMP SYSTEMS AND ASSOCIATED ACCESSORIES IN THE SECTION OF THE BUILDING THAT WILL BE DEMOLISHED.
- CONTRACTOR SHALL BE RESPONSIBLE TO:
 - PUMP DOWN REFRIGERANT INTO OUTDOOR UNIT.
 - MECHANICALLY SEAL LIQUID AND GAS LINES AT THE OUTDOOR UNIT.
 - MECHANICALLY SEAL THE LIQUID AND GAS LINES AT THE INDOOR UNIT.
 - PLACE INDOOR UNITS, OUTDOOR UNITS, THERMOSTATS, ASSOCIATED HANGING BRACKETS AND CONDENSATE PUMPS FOR OVER-THE-ROAD TRANSPORT ON PALLETS AND DELIVER TO A SITE ON CAMP KEYS DESIGNATED BY OWNER.

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

LEGEND	
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	CONNECT TO EXISTING
	THERMOSTAT
	ABOVE FINISHED FLOOR



MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT 108
10 FOREST FALLS DRIVE, YARMOUTH, MAINE 04096
(207) 846-1441
FACEBOOK: MECHANICAL SYSTEMS ENGINEERS
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Rev#	Description	Date	Appr.
1	GENERAL REVISIONS	1.28.19	
	PLAN REVISIONS		

DESIGNED BY: KFM
DRAWN BY: KFM
CHECKED BY: KFM/MAD
DATE: 12/28/2018
SCALE: 1/4" = 1'-0"
DFE PROJECT NO: 235F18-456-D

STATE OF MAINE
DEPARTMENT OF DEFENSE, VETERANS
AND EMERGENCY MANAGEMENT
Cordja Capital Projects Group
16 Tannery Lane, Suite 23
Camden, Maine 04843
207-236-9970 / mdaigle@cordjapcg.com

CAMP KEYS REUTILIZATION PROJECT
CAMP KEYS, AUGUSTA, MAINE
BUILDING NO. 8 RENOVATIONS
MECHANICAL
FIRST FLOOR PLAN

PLAN PROGRESS	
<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
M-101
SHEET: 24 OF 33

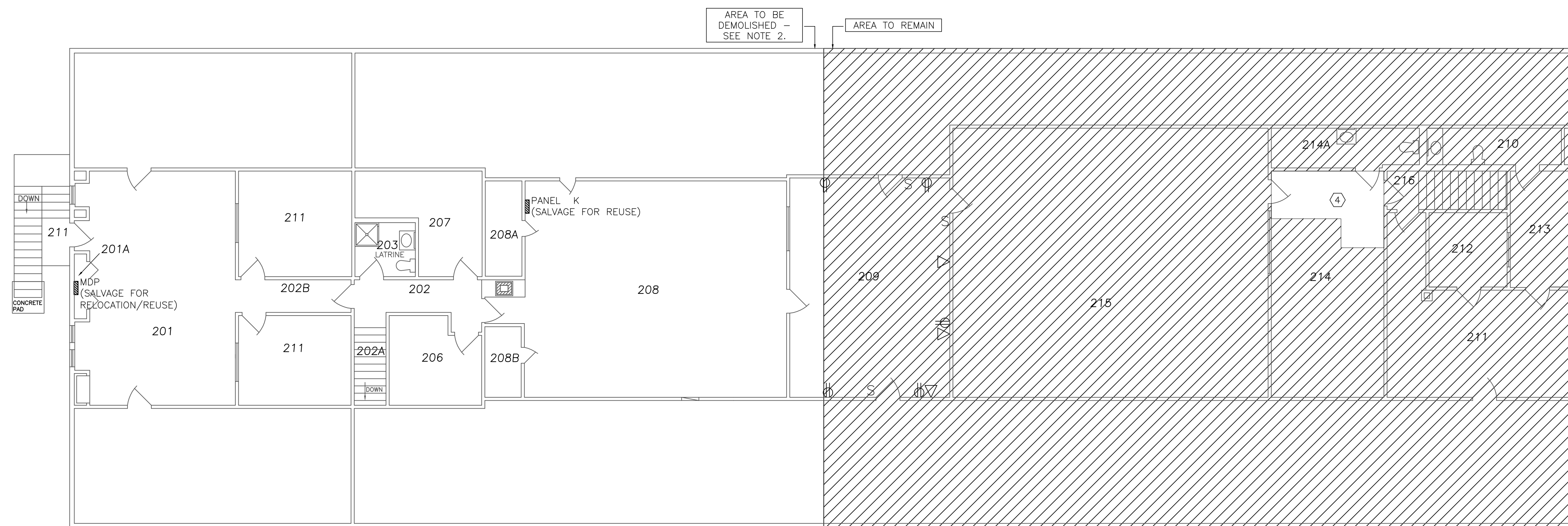


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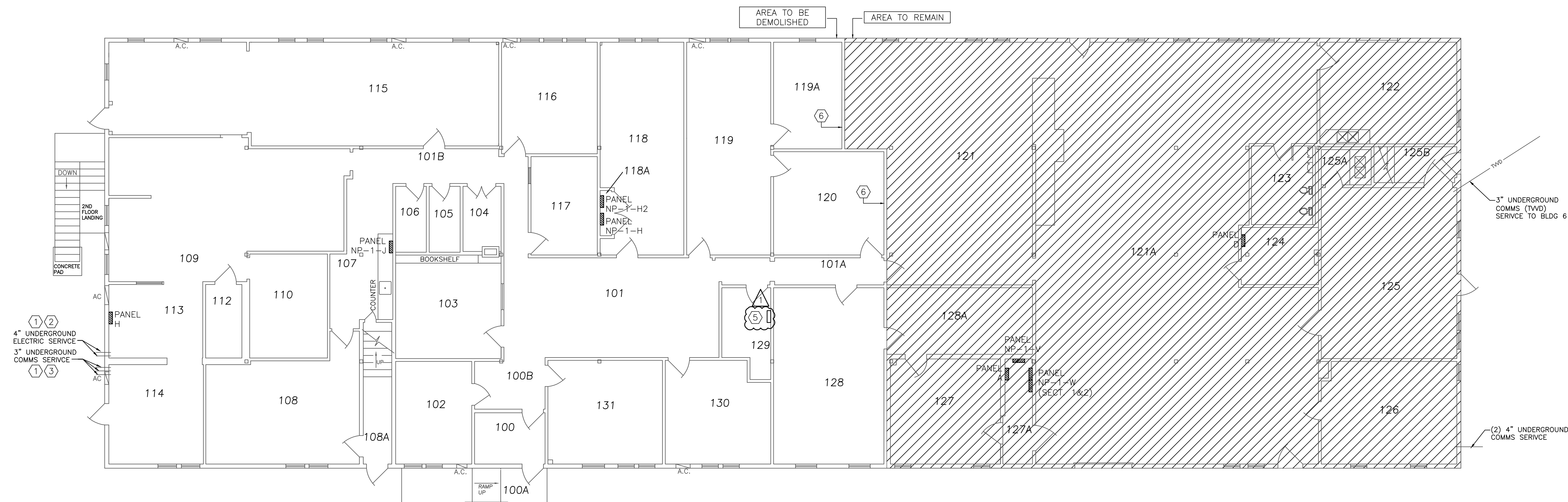
- 1. SEE E-000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. REMOVE ALL LIGHTING, RECEPTACLES, DATA AND AUXILIARY EQUIPMENT FROM AREA TO BE DEMOLISHED. SALVAGE EQUIPMENT FOR REUSE WHERE NOTED.

KEYED NOTES:

- (1) EXTEND CONDUITS TO NEW LOCATIONS SHOWN ON E-100.
- (2) CONTRACTOR TO FURNISH NEW ELECTRICAL SERVICE WIRING FROM TRANSFORMER TO NEW MAIN PANEL.
- (3) CONTRACTOR TO FURNISH NEW COMMS. WIRING TO NEW IT ROOM.
- (4) CEILING BEING MODIFIED TO INSTALL WALL IN ROOM 214. REMOVE/RELOCATE EXISTING FIXTURES AS REQUIRED IN ROOM 214 AND INSTALL NEW IN HALLWAY.
- (5) DEMO INDOOR UNIT TO BE RELOCATED. SEE DRAWING E-100 FOR NEW LOCATION.
- (6) WALL BEING REMOVED. REMOVE ALL DEVICES.



2 ELECTRICAL REMOVALS PLAN – SECOND FLOOR
SCALE: 1/8"=1'



1 ELECTRICAL REMOVALS PLAN – FIRST FLOOR
SCALE: 1/8"=1'

PLAN REVISIONS		
Rev#	Description	Date
1	GENERAL REVISIONS	1.28.19

DESIGNED BY: TMD	DATE: 12/28/2018
DRAWN BY: JMD	SCALE: AS NOTED
CHECKED BY: TMD/JMD	DFE PROJECT NO: 235R18-456-D

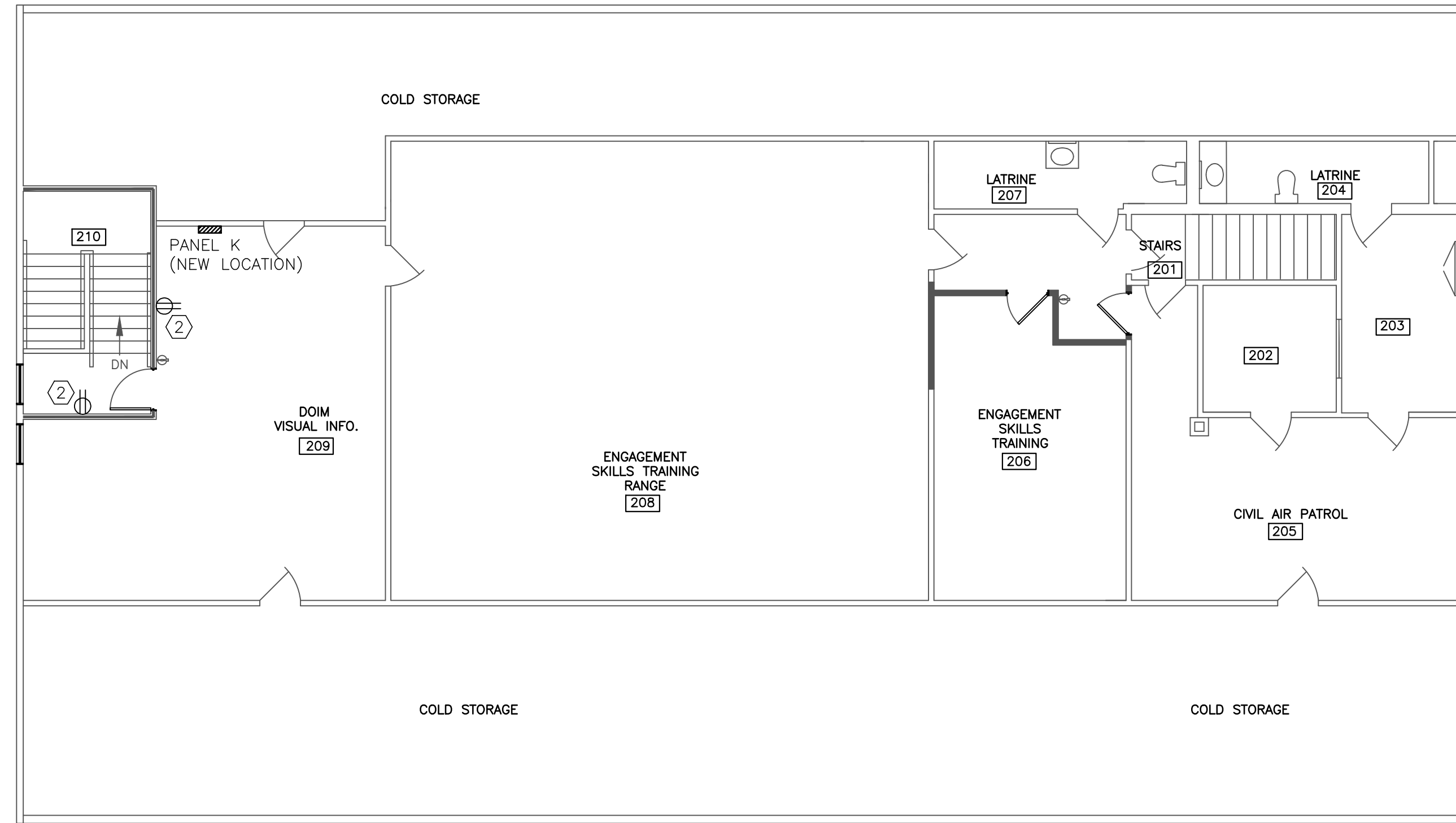
STATE OF MAINE
DEPARTMENT OF DEFENSE, VETERANS
AND EMERGENCY MANAGEMENT
Cordja Capital Projects Group
16 Tenney Lane, Suite 23
Comden, Maine 04843
207-236-9970 / mdagle@cordjapcg.com

CAMP KEYES REUTILIZATION PROJECT
CAMP KEYES, AUGUSTA, MAINE
BUILDING NO. 8 RENOVATIONS
ELECTRICAL REMOVALS PLAN –
FIRST & SECOND FLOOR

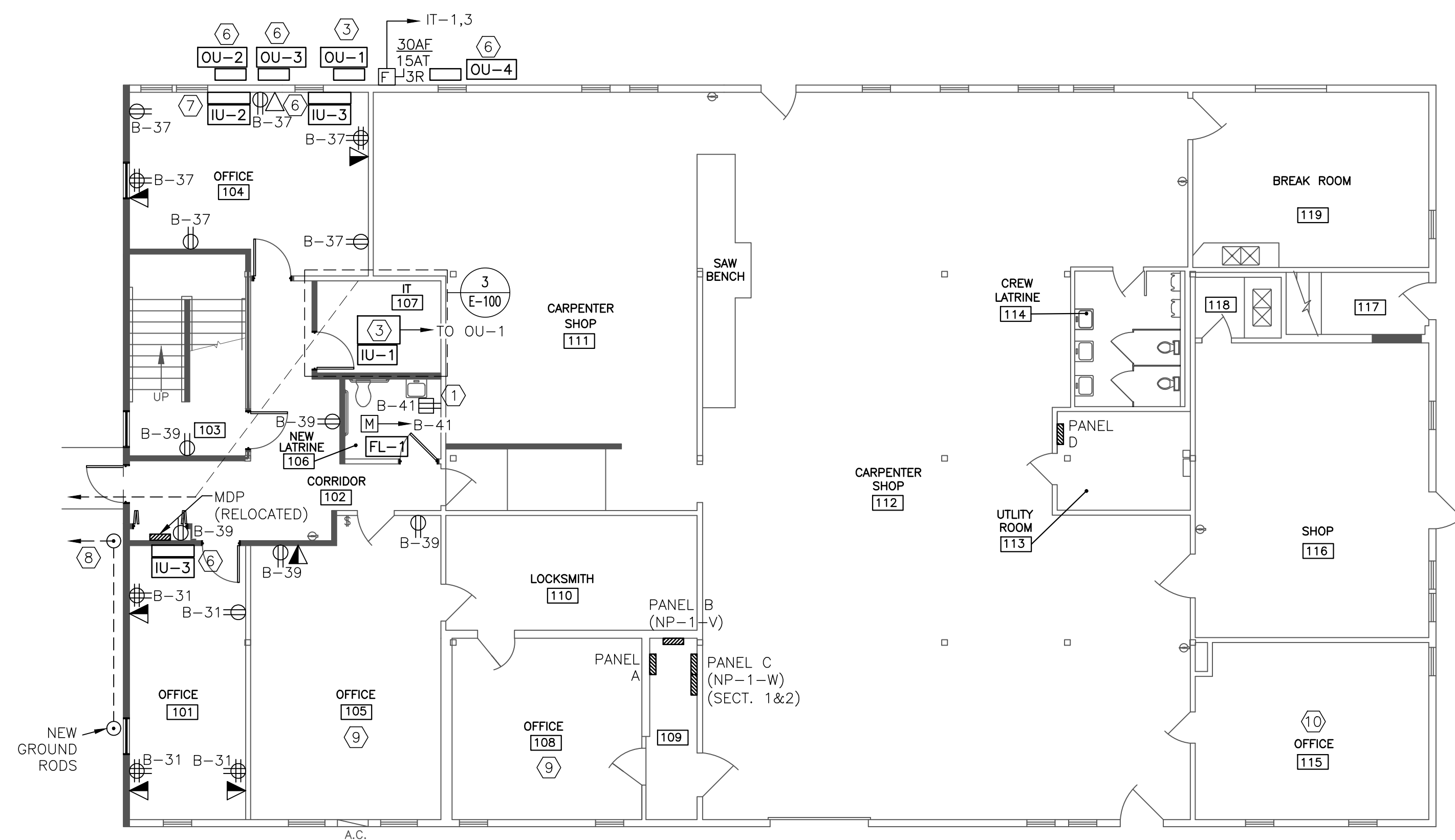
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<input type="checkbox"/> 65% REVIEW	<input type="checkbox"/> 95% REVIEW
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<input type="checkbox"/> ISSUED FOR CONSTRUCTION	<input type="checkbox"/> RECORD DRAWINGS



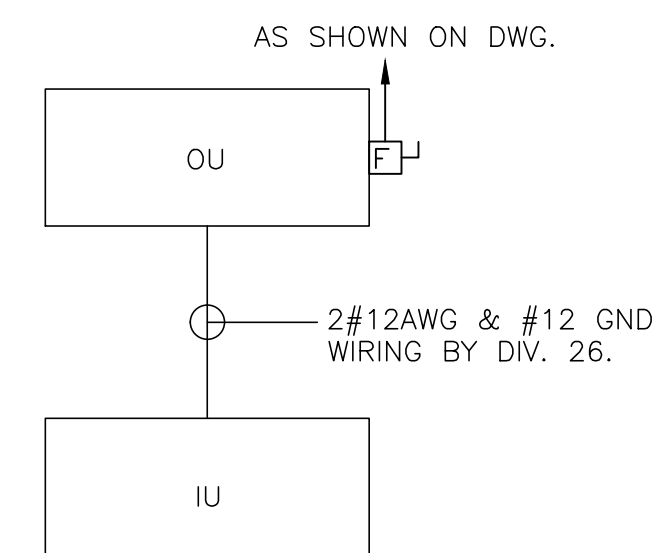
SWIFTCURRENT
Engineering Services
10 Forest Falls Dr. Unit 4B
Yarmouth, ME 04096
Tel: (207) 847-9280



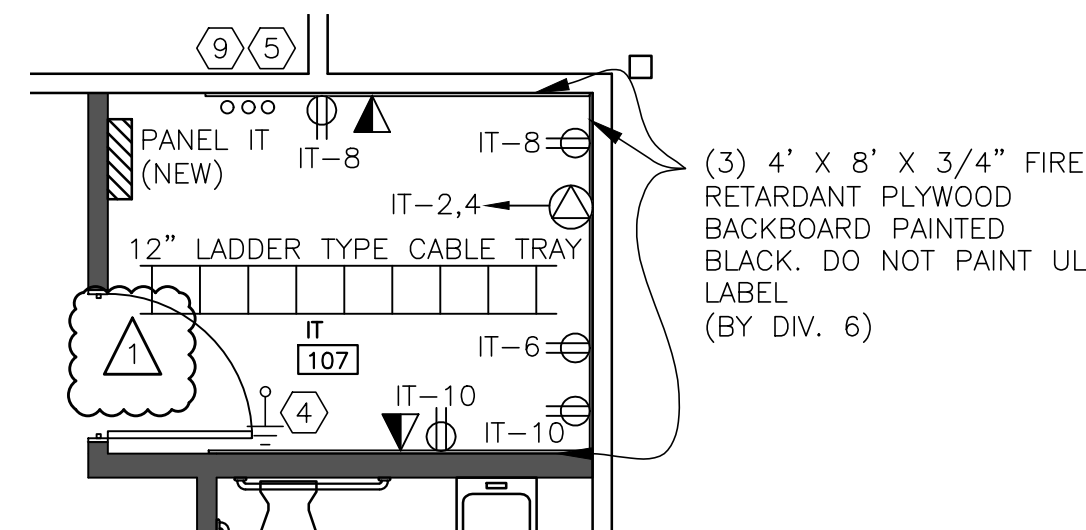
2 PROPOSED ELECTRICAL PLAN – SECOND FLOOR
SCALE: 1/8"=1'



1 PROPOSED ELECTRICAL PLAN – FIRST FLOOR
SCALE: 1/8"=1'



4 TYPICAL MINI-SPLIT (OU/IU-1,2, & 3)
SCALE: NOT TO SCALE



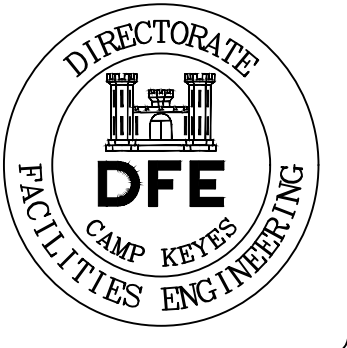
3 ELECTRICAL DETAIL – IT 107
SCALE: 1/4"=1'

NOTES:

1. SEE E-000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES:

- ① MOUNT 42" AFF.
- ② CONNECT TO LOCAL RECEPTACLE CIRCUIT.
- ③ NEW MINI-SPLIT SEE DETAIL 4 ON THIS SHEET FOR WIRING OF OU/IU.
- ④ FURNISH TELECOMMUNICATIONS GROUNDING BUS BAR.
- ⑤ TERMINATE (3)-3" UNDERGROUND COMMS CONDUITS HERE. SEE DRAWINGS ED-100 AND ES-100 FOR NOTES AND STARTING LOCATION.
- ⑥ EXISTING MINI SPLIT WITH RELOCATED INDOOR UNIT (IU). RELOCATE WIRING FROM OU TO NEW LOCATION OF IU.
- ⑦ RELOCATED MINI-SPLIT CONNECT TO EXISTING CIRCUIT. SEE ED-100 FOR PREVIOUS LOCATION.
- ⑧ INTENT IS TO EXTEND SECONDARY POWER AND TELECOMMUNICATIONS CONDUITS FROM EXISTING ENTRY TO BUILDING 8 UNDERGROUND TO NEW TERMINAL LOCATIONS. SEE DUCT BANK DETAIL ON DRAWING ES-100.
- ⑨ CONTRACTOR TO RE-ROUTE DATA CABLE JACKS IN THE EXISTING AREA.



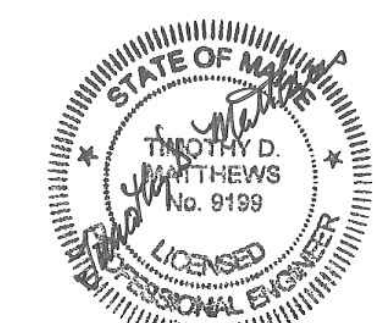
Rev#	Description	Date	Appr.
1	GENERAL REVISIONS		
		1.28.19	

DESIGNED BY: TMD	DESIGNED BY: TMD/JMAD
DRAWN BY: JMD	CHECKED BY: TMD/JMAD
DATE: 12/28/2018	SCALE: AS NOTED
DFE PROJECT NO: 23SR18-456-D	

STATE OF MAINE
DEPARTMENT OF DEFENSE, VETERANS
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CAMP KEYES REUTILIZATION PROJECT
CAMP KEYES, AUGUSTA, MAINE
BUILDING NO. 8 RENOVATIONS
PROPOSED ELECTRICAL PLAN –
FIRST & SECOND FLOOR

PLAN PROGRESS	
<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

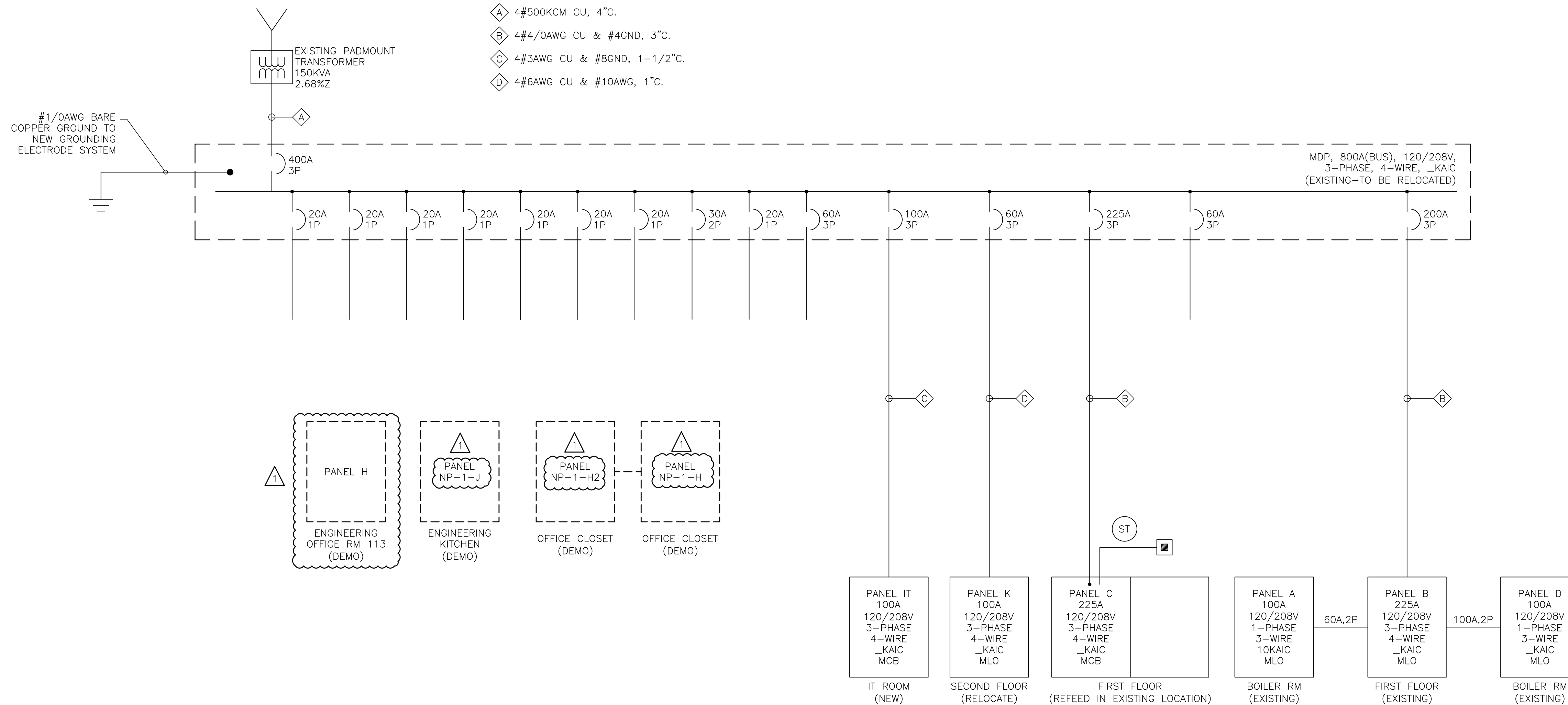


SWIFTCURRENT
Engineering Services
10 Forest Falls Dr. Unit 4B
Yarmouth, ME 04096
Tel: (207) 847-9280

SHEET ID:
E-100
SHEET: 29 of 33

WIRING SCHEDULE:

- Ⓐ 4#500KCM CU, 4" C.
- Ⓑ 4#4/0AWG CU & #4GND, 3" C.
- Ⓒ 4#3AWG CU & #8GND, 1-1/2" C.
- Ⓓ 4#6AWG CU & #10AWG, 1" C.



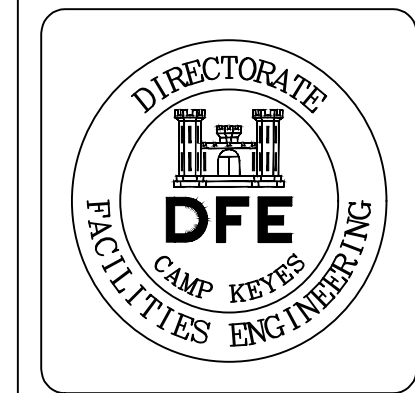
1 ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

DIRECTORY	KVA LOAD			CKT #	BRK. AMPS	PHASE	BRK. AMPS	CKT #	KVA LOAD			DIRECTORY	
	A	B	C						A	B	C		
OU-111U-1	0.9			1	15	A	20	2	1.0			DEDICATED RACK RECEIPT	
		0.9		3		B		4		1.0			
SPARE			*	5	20	C	20	6			1.0	DEDICATED RACK RECEIPT	
SPARE	*			7	20	A	20	8	0.4			CONVENIENCE RECEIPT IN IT RM	
SPARE		*		9	20	B	20	10		0.4		CONVENIENCE RECEIPT IN IT RM	
SPARE			*	11	20	C	20	12			*	SPARE	
SPARE	*			13	20	A	20	14	*			SPARE	
SPARE		*		15	20	B	20	16		*		SPARE	
SPARE			*	17	20	C	20	18		*		SPARE	
SPARE	*			19	20	A	20	20	*			SPARE	
SPARE		*		21	20	B	20	22		*		SPARE	
SPARE			*	23	20	C	20	24		*		SPARE	
SPARE	*			25	20	A	20	26	*			SPARE	
SPARE		*		27	20	B	20	28		*		SPARE	
SPARE			*	29	20	C	20	30		*		SPARE	
SUBTOTAL	0.9	0.9	0.0						1.4	1.4	1.0	SUBTOTAL	
VOLTAGE: 208Y/120V				PHASE: 3		POLES: 4		TOTAL KVA A-PHASE		2.3		PANEL	IT
MAIN BREAKER: 100A				BUS AMPS: 100A		TOTAL KVA B-PHASE		2.3					
MOUNTING: SURFACE				TOTAL KVA C-PHASE		1.0		LOCATION		IT 107			
SHORT CIRCUIT RATING: 10KAIC				TOTAL KVA		5.6							

2 ELECTRICAL PANEL
SCALE: NOT TO SCALE

NOTES:

1. SEE E-000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. RELOCATE MDP. FURNISH NEW FEEDER FROM TRANSFORMER.
3. REFEED EXISTING PANEL WITH NEW FEEDERS FROM RELOCATED MDP. NOTE: THIS INCLUDES SPLITTING FEED FOR PANEL C FROM FEED TO PANELS A AND B.
4. DEMO PANELS H, H2 AND J. RELOCATE ANY CIRCUITS FED FROM THESE PANELS TO REMAIN TO PANELS A AND B.
5. RELOCATE PANEL K. RECONNECT EXISTING CIRCUITS AS REQUIRED.



PLAN REVISIONS	GENERAL REVISIONS	Date	Appr.
1	1.28.19		

DESIGNED BY: TMD
DRAWN BY: JMD
CHECKED BY: TMD/JMD
DATE: 12/28/2018
SCALE: AS NOTED
DFE PROJECT NO: 23SR18-456-D

STATE OF MAINE
DEPARTMENT OF DEFENSE, VETERANS
AND EMERGENCY MANAGEMENT
Cordja Capital Projects Group
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CAMP KEYES REUTILIZATION PROJECT
CAMP KEYES, AUGUSTA, MAINE
BUILDING NO. 8 RENOVATIONS
ELECTRICAL ONE-LINE DIAGRAM

PLAN PROGRESS

- DRAFT
- 35% REVIEW
- 65% REVIEW
- 95% REVIEW
- FINAL REVIEW
- FOR BIDDING
- ISSUED FOR CONSTRUCTION
- RECORD DRAWINGS



SWIFTCURRENT
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Tel: (207) 847-9280

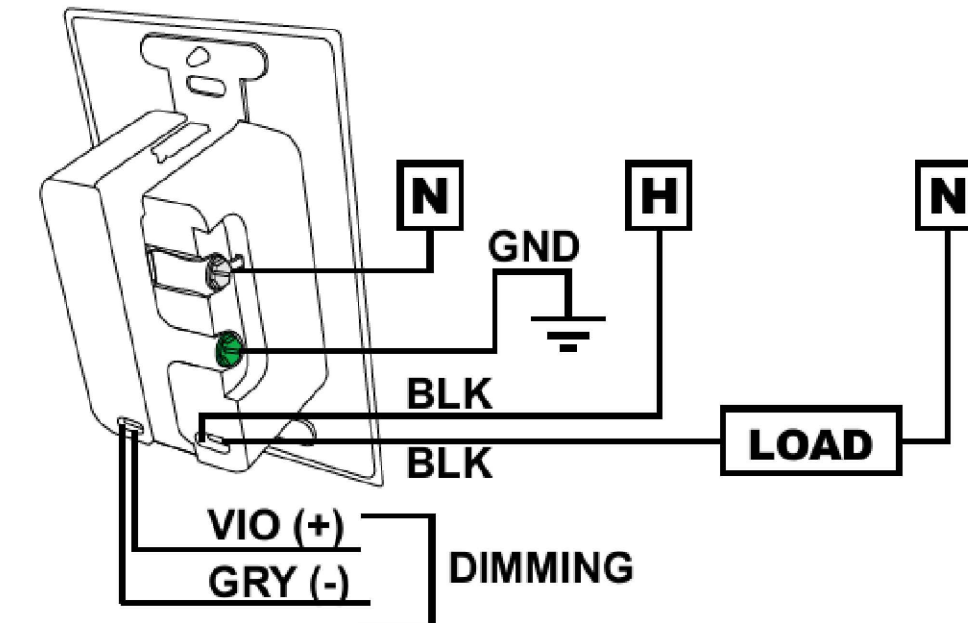


NOTES:

- SEE E-000 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- CONNECT EXIT AND EMERGENCY LIGHTS TO LOCAL LIGHTING CIRCUIT.

KEYED NOTES:

- REALIGN EXISTING LIGHTING FIXTURES AND CIRCUIT WIRING IN THIS ROOM TO ACCOMMODATE NEW STAIRWELL.
- NO ANTICIPATED LIGHTING WORK THIS AREA.
- LIGHTING IN THIS AREA MAY REQUIRE RECIRCUITING TO SPARE BREAKER IN PANEL B IF CURRENTLY FED FROM A PANEL BEING REMOVED AS PART OF THE DEMOLITION. VERIFY EXISTING SOURCE IN FIELD.
- RELOCATED SWITCH.
- REUSE EXISTING LIGHTING CIRCUIT IN THIS ROOM FOR NEW LIGHTS.
- INSTALL NEW LIGHTS IN NEW CORRIDOR. 3-WAY SWITCHES AND OCCUPANCY SENSOR. REUSE EXISTING LIGHTING CIRCUIT PROVIDE ADDITIONAL WIRING AS REQUIRED.
- INSTALL NEW SWITCH FOR LIGHTING IN RM 206. REUSE EXISTING LIGHTING CIRCUIT. PROVIDE ADDITIONAL WIRING AS REQUIRED.
- RELOCATE LIGHTING AS REQUIRED IN THIS ROOM TO INCORPORATE CORRIDOR.



WIRE COLOR KEY
120/277 VAC WIRING
 BLACK* - Line 1 Input } *BLACK wires
 BLACK* - Load 1 Output } can be reversed
 VIOLET - Low Voltage Dim Output (0-10 VDC)
 GRAY - Low Voltage Common
347 VAC WIRING (-347 Option)
 Red wires replace Black wires.

NOTES:

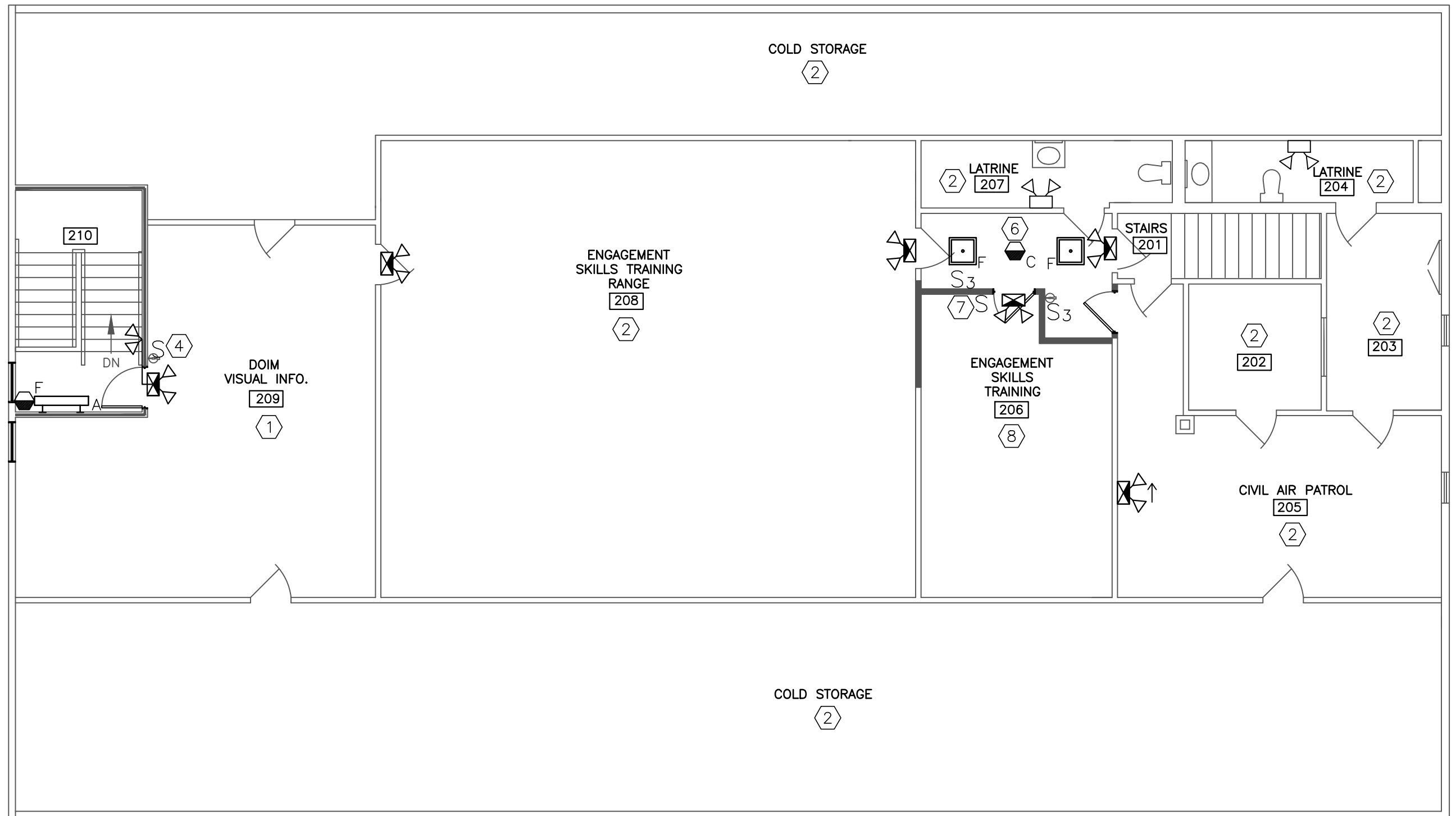
- PER NEC REQUIREMENTS, THE 0-10V (VIOLET AND GRAY) WIRES MUST BE INSTALLED AS CLASS ONE.
- THE 0-10V (VIOLET AND GRAY) WIRES SHALL NOT EXCEED 240' IN LENGTH AND SHALL BE SIZED AS #18AWG.

4 SINGLE-POLE DIMMER WIRING APPLICATION
 SCALE: NOT TO SCALE

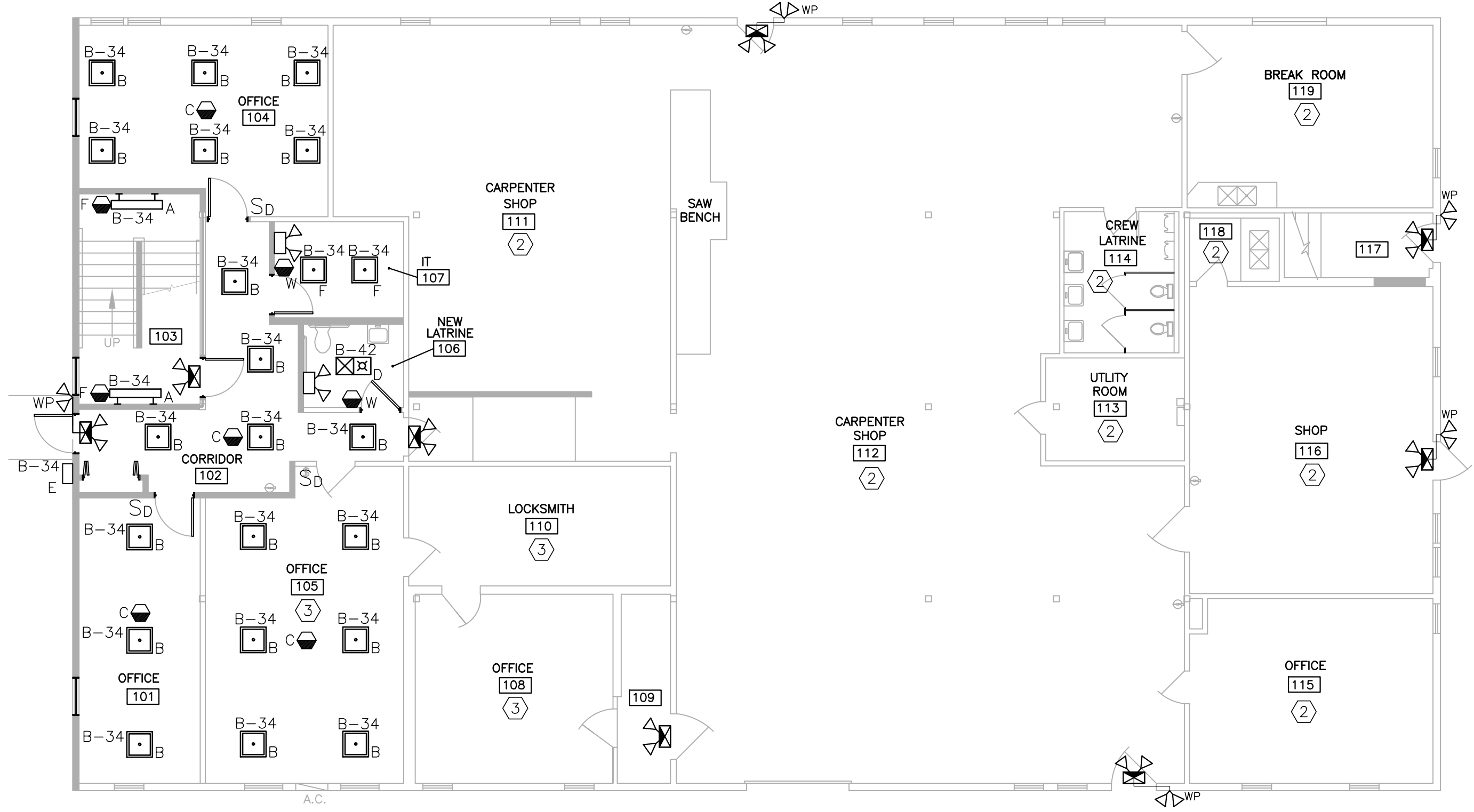
LIGHTING SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS	MOUNTING	NOTES
A	4" WALL MOUNTED LED STAIRWELL LIGHT 120V	COLUMBIA LIGHTING	27W LED 3500K 3279 LUMENS	WALL SURFACE	MODEL #: ESL4-35VW-FAW-EDU-NX0S
B	2'X2' HIGH OUTPUT LED TROFFER GRID MOUNT 120V	COLUMBIA LIGHTING	32W LED 3500K 3707 LUMENS	CEILING GRID	MODEL #: LCAT22-35HLG-ED1U
D	COMBINATION FAN/LIGHT WITH TIMER SWITCH FURNISHED BY MECHANICAL INSTALLED BY ELECTRICAL 120V	N/A	N/A	CEILING SURFACE	
E	WALL MOUNTED EXTERIOR FULL-CUTOFF LED LIGHT FIXTURE 120V	HUBBELL LIGHTING	21W LED 5000K 2263 LUMENS	WALL SURFACE	MODEL #: SG1-20-5K7-FT-UNV-DB
F	2' X 2' MEDIUM OUTPUT LED TROFFER GRID MOUNT. 120V	COLUMBIA LIGHTING	29W LED 3500K 3240 LUMENS	CEILING GRID	MODEL #: LCAT22-35MLG-EDU
C	CEILING MOUNTED DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED OCCUPANCY SENSOR 120V	HUBBELL CONTROL SOLUTIONS	N/A	CEILING SURFACE	MODEL #: OMNIDT500 FURNISH RELAYS/POWER PACKS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION
CM	CORNER MOUNTED DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED OCCUPANCY SENSOR 120V	HUBBELL CONTROL SOLUTIONS	N/A	WALL CORNER	MODEL #: LODT FURNISH RELAYS/POWER PACKS AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION
F	FIXTURE MOUNTED INTEGRAL OCCUPANCY SENSOR (FURNISHED WITH FIXTURE). 120V	COLUMBIA LIGHTING	N/A	WALL	MODEL #: N/A
W	WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR 120V	HUBBELL CONTROL SOLUTIONS	N/A	WALL	MODEL #: LHIRS11
WP	EMERGENCY BATTERY UNIT 120V	DUAL-LITE	2W LED	WALL SURFACE	MODEL #: EV4D-02L
WP	LED EXIT SIGN EMERGENCY BATTERY UNIT COMBINATION WITH REMOTE CAPACITY 120V	DUAL-LITE	(2) 1W LED	CEILING SURFACE	MODEL #: EVCU-R-W-D4
WP	INDOOR REMOTE HEAD. WHITE FINISH. 120V	DUAL-LITE	(2) 1W LED	WALL SURFACE	MODEL #: EVO-D-W
WP	WEATHER PROOF REMOTE HEAD. WHITE FINISH. 120V	DUAL-LITE	(2) 1W LED	WALL SURFACE	MODEL #: EVO-D-W

3 LIGHTING SCHEDULE
 SCALE: NOT TO SCALE



1 PROPOSED ELECTRICAL LIGHTING PLAN - SECOND FLOOR
 SCALE: 1/8"=1'



1 PROPOSED ELECTRICAL LIGHTING PLAN - FIRST FLOOR
 SCALE: 1/8"=1'

PLAN REVISIONS

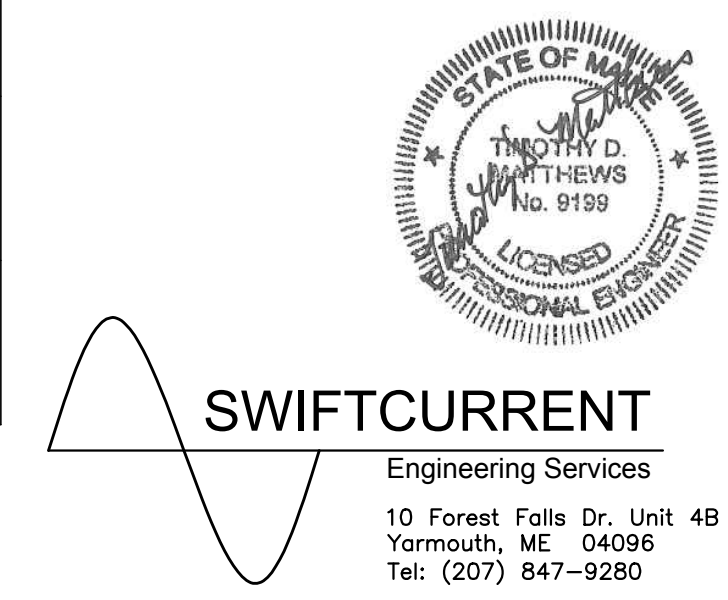
NO.	DATE	DESCRIPTION	BY	APP.
1	1.28.19	GENERAL REVISIONS		

DESIGNED BY: TMD
 DRAWN BY: JMD
 CHECKED BY: TMD/JMD
 DATE: 12/28/2018
 SCALE: AS NOTED
 DFE PROJECT NO: 235R18-456-D

STATE OF MAINE
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 Cordja Capital Projects Group
 16 Tenney Lane, Suite 23
 Camden, Maine 04843
 207-236-9970 / mdagle@cordjagcp.com

CAMP KEYS REUTILIZATION PROJECT
 CAMP KEYS, AUGUSTA, MAINE
 BUILDING NO. 8 RENOVATIONS
 PROPOSED ELECTRICAL LIGHTING PLAN
 - FIRST & SECOND FLOOR

- PLAN PROGRESS**
- DRAFT
 - 35% REVIEW
 - 65% REVIEW
 - 95% REVIEW
 - FINAL REVIEW
 - FOR BIDDING
 - ISSUED FOR CONSTRUCTION
 - RECORD DRAWINGS

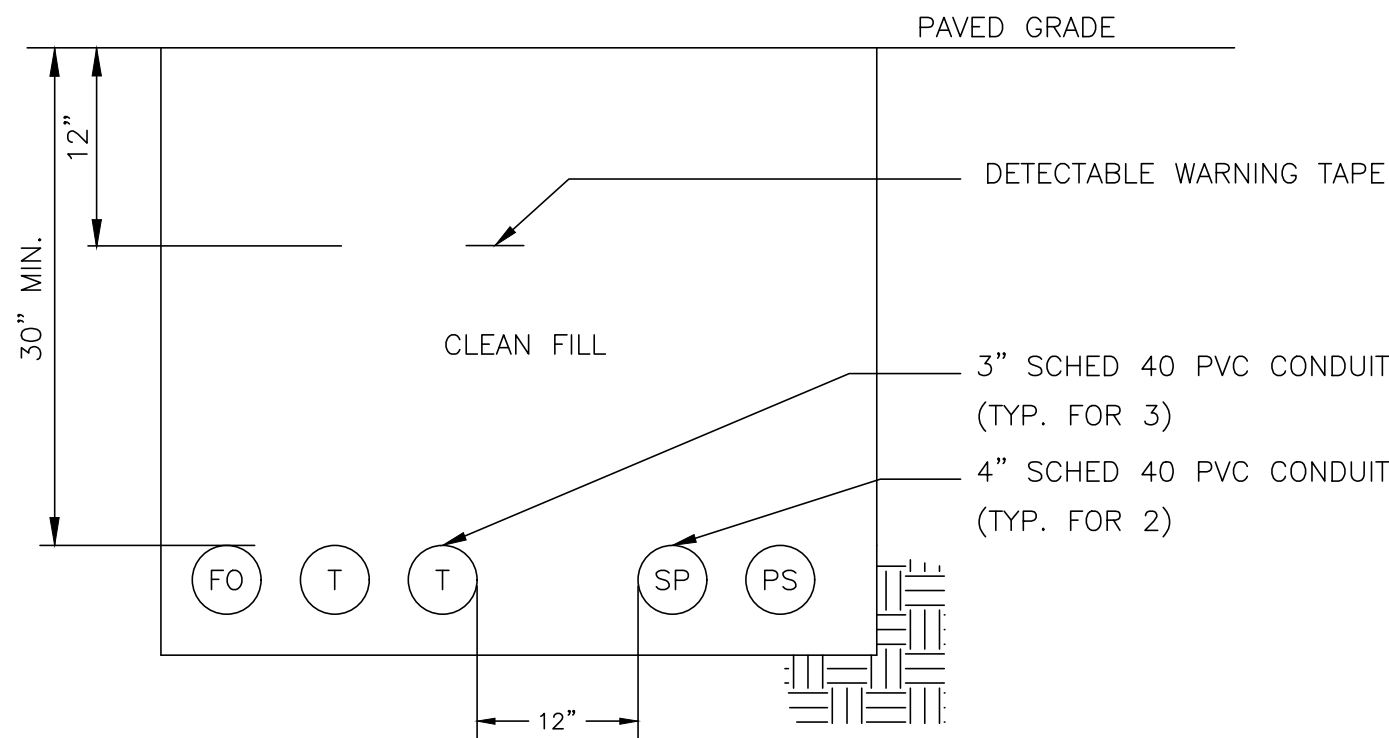


SWIFTCURRENT
 Engineering Services
 10 Forest Falls Dr. Unit 4B
 Yarmouth, ME 04096
 Tel: (207) 847-9280

SHEET ID:
E-200
 SHEET: 32 of 33

DUCT BANK LEGEND:

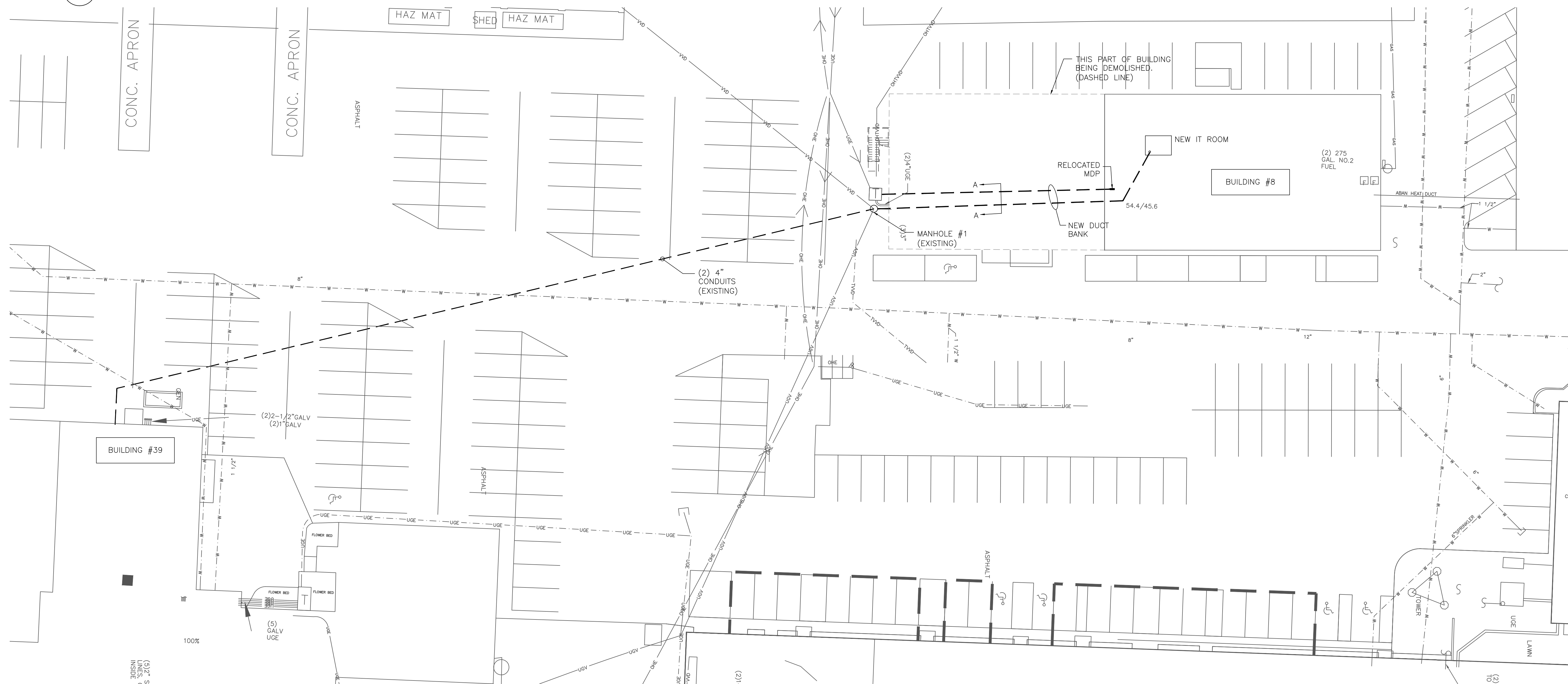
- PS - POWER (SECONDARY)
- SP - SPARE
- FO - FIBER OPTIC
- T - TELEPHONE/DATA



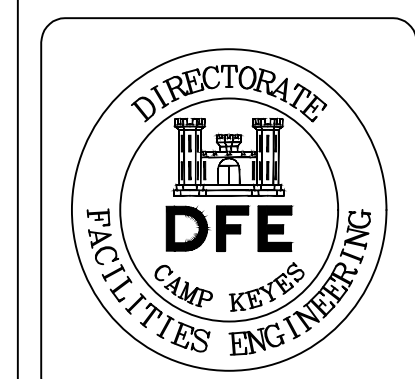
2 DUCT BANK DETAIL A-A
SCALE: NOT TO SCALE

NOTES:

1. INTENT IS FOR CONTRACTOR TO FURNISH AND INSTALL:
 - 12-STRANDS OF 8-10MM SINGLEMODE FIBER OPTIC CABLE.
 - 25-PAIR COPPER.
2. TERMINATE ALL CABLES ON BOTH ENDS.
3. REMOVE ALL EXISTING CABLES BETWEEN IT ROOMS IN BUILDING #8 AND BUILDING #39. FURNISH CABLE PULLING SLEEVES IN ALL ACTIVE CONDUITS. FURNISH SPARE CONDUITS WITH PULL STRING AND CAP ENDS FOR FUTURE USE.



1 PARTIAL ELECTRICAL SITE PLAN
SCALE: 1"=20'



Rev#	Description	Date	Appr.
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DESIGNED BY: TMD	DATE: 12/28/2018
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STATE OF MAINE DEPARTMENT OF DEFENSE, VETERANS AND EMERGENCY MANAGEMENT Cordja Capital Projects Group 16 Tenney Lane, Suite 23 Camden, Maine 04843 207-236-9970 / mdj@cordjagroup.com	

CAMP KEYS REUTILIZATION PROJECT
 CAMP KEYS, AUGUSTA, MAINE
 BUILDING NO. 8 RENOVATIONS
 PROPOSED ELECTRICAL SITE PLAN

PLAN PROGRESS	
<input type="checkbox"/>	DRAFT
<input type="checkbox"/>	35% REVIEW
<input type="checkbox"/>	65% REVIEW
<input type="checkbox"/>	95% REVIEW
<input type="checkbox"/>	FINAL REVIEW
<input checked="" type="checkbox"/>	FOR BIDDING
<input type="checkbox"/>	ISSUED FOR CONSTRUCTION
<input type="checkbox"/>	RECORD DRAWINGS

SHEET ID:
ES-100
 SHEET: 33 OF 33

