

ADDENDUM NO. CC-2

BCDM Architects
1015 North 98th Street, Suite 300
Omaha, Nebraska 68114

to the
Bidding Document

for

March 16, 2026

Lewis Central Community School District
Athletic Building Addition & Renovation
3820 Harry Langdon Blvd, Council Bluffs, IA 51503
BCDM Project No. 5551-05

REMINDER: BID DATE AND TIME: THURSDAY, MARCH 19, 2026 AT 2:00 P.M. CDT.

NOTICE TO BIDDERS: The Project Manual and Drawings for the above-mentioned project are hereby amended as follows:

PROJECT MANUAL

SECTION 00 30 30 – BID FOR COMBINED CONTRACT

- a. Remove this specification section in its entirety and replace with the attached Section 00 03 30 Bid for Combined Contract.

SECTION 00 31 32 – GEOTECHNICAL DATA

- a. Delete the Geotechnical Exploration Report that follows this Section and replace with the attached Geotechnical Exploration Report dated 12/18-2025.

SECTION 01 10 00 – SUMMARY

- a. Page 01 10 00-1, Paragraph 1.06 D delete this paragraph in its entirety and replace it with the following:
“D. Existing Side:
1. Substantial Completion: September 16, 2026
2. Temporary Certificate of Occupancy September 30, 2026”

SECTION 08 71 00 – FINISH HARDWARE

- a. Page 08 71 00-1, Paragraph 1.03.A.1 delete this paragraph in its entirety replace it with the following:
“All door hardware and low voltage wires provided and installed by the Owner's access control/security contractor.”
- b. Page 08 71 00-1, Paragraph 1.03.C delete this paragraph in its entirety replace it with the following:
“Electrical System Rough-In: There is to be a coordination meeting set up by the General Contractor, with the Architect, the Owner's representative, the aluminum frame subcontractor, the electrician, the metal door/frame and hardware subcontractor as well as the Owner's access controls contractor to review all electrical products being installed and to make certain everyone understands their role in the process. This meeting needs to be held very early in the construction process, before any frames are installed, to eliminate any conflicts during the installation phase. The General Contractor shall keep meeting minutes and distribute copies to the above described.”
- c. Hardware Set 1 to be revised to include ADA operators. See updated hardware set below:

Hardware Set 1 (Door # 100)

2	Each	Continuous Hinge	670HDUL	AL	ST
1	Each	Keyed Mullion	KR822 x S1447 x ST989	689	PR
1	Each	Exit Device	2101 CD No Trim (RHR)	630	PR
1	Each	Exit Device	2103 CD No Trim (LHR)	630	PR
1	Each	Cylinder (mullion)	12E-72 S2 R706 Less Core	626	BE
1	Each	Cylinder (trim)	12E-72 S2 RP3 Less Core (LHR)	626	BE
2	Each	Cylinder (dogging)	1E-74 C4 RP3 Less Core	626	BE
4	Each	Core	by Owner		
1	Each	Electric Strike	9600 (LHR)	630	HS
2	Each	Pull	BF157 Mtg-Type 1HD	US32D	RO
1	Each	Closer	EHD9016 SDS90 BSNFHD90 (RHR)	689	BE
1	Each	Operator	by Section 087113 (LHR)		
1	Each	Threshold	by Door Supplier		
1	Each	Perimeter Seal	by Door Supplier		
2	Each	Position Switch	by Access Control		
1	Each	Card Reader	by Access Control		
2	Each	Actuator	by Section 087113		
1	Each	Motion Sensor	by Access Control		
1	Each	Power Supply	by Access Control		

Electrical to provide quick connect at top of mullion for wiring to electric strike.

Ingress allowed when latchbolts are held retracted by mechanical keyed dogging, both actuators will initiate operator.

When locked, presenting a valid credential to card reader will release electric strike, shunt door position switch and provide power to exterior operator actuator allowing entry.

Inside operator actuator always active and will release electric strike before initiating operator.

Loss of power will leave electric strike closed securing doors when latchbolts are not held retracted by mechanical keyed dogging and disable exterior operator actuator.

Egress free at all times by depressing exit device pushpads, motion sensor will shunt door position switches.

Door position switches to monitor for propped door and unauthorized usage alert.

SECTION 07 13 00 – SHEET WATERPROOFING

- a. Page 07 13 00-3, Paragraph 2.03. Delete paragraphs C, D, and E in their entirety.

SECTION 07 53 23 – EPDM THERMOSET SINGLE-PLY ROOFING

- a. Page 07 53 23-3, Paragraph 2.04.A.2 add the following:
 - “2. Install cover boards over existing roofing system with long joints in continuous straight lines with end joints staggered between rows. Loosely butt cover boards together and mechanically fasten to roof deck. Fasten cover boards to resist uplift pressure at corners, perimeter and field of roof.”

SECTION 09 51 00 – ACOUSTICAL CEILINGS

- a. Page 09 51 00-2, Paragraph 2.02.B.1 add the following:
 - “b. Armstrong World Industries; Cortega 704”.

SECTION 10 14 19 – DIMENSIONAL LETTER SIGNAGE

- a. Page 10 14 19-1, Paragraph 2.02.A.1. Delete “casting” and replace with “fabrication”.
- b. Page 10 14 19-1, Paragraph 2.02.A.2. Delete “casting” and replace with “fabrication”.

SECTION 11 66 23.56 – WRESTLING MAT STORAGE

- a. See attached Wrestling Mat Storage specification section to be added to the project manual.

SECTION 13 35 19 – METAL BUILDING SYSTEMS

- a. Page 13 34 19-3, Paragraph 2.01.A. Add the following approved manufacturers:
 - “7. Ceco Building Systems: cecobuildings.com”

DRAWINGS

SHEET G0-0: COVER PAGE

- a. Delete Sheet S2-3 High Upper Level Framing Plan and Details.

SHEET G0-1: CODE REVIEW PLANS

- a. See detail 2/G0-1 on the attached sheet for revisions at the Upper Level Athletic Storage. Upper Level Athletic Storage has been removed and replaced with wrestling mat storage lifts.
- b. See attached Sheet G0-1 for revisions to the Maximum Common Path of Travel due to the Upper Level Athletic Storage being removed.

SHEET A1-1: FLOOR PLANS

- a. See detail 2/A1-1 on the attached sheet for revisions to the Upper Level Floor Plan. Deletion of the Athletic Storage 201 and replacing with wrestling mat storage.
- b. Architectural Flag Notes: Add flag note 19 for Wrestling Mat Storage.

SHEET A1-4: VERTICAL CIRCULATION

- a. See detail 3/A1-4 on the attached sheet for revisions at the top of Stair ST-02.
 1. Delete door 201.
 2. Delete top landing and top run of stair.
 3. Add guardrail at landing adjacent to door 200.
- b. See detail 6/A1-4 on the attached sheet for revisions at the top of Stair ST-02.
 1. Delete top landing and top run of stair.
 2. Add guardrail at landing adjacent to door 200.
- c. See detail 7/A1-4 on the attached sheet for revisions at the top of Stair ST-02.
 1. Delete top landing and top run of stair.
 2. Add guardrail at landing adjacent to door 200.

SHEET A3-1: BUILDING SECTIONS AND DETAILS

- a. See detail 1/A3-1 on the attached sheet for wrestling mat storage beyond.

SHEET A4-1: DOORS & WINDOWS – ELEVATION, SCHEDULE, DOOR AND FRAME DETAILS

- a. Delete Door 201 from the Door and Frame Schedule.

SHEET A5-1: REFLECTED CEILING PLANS

- a. See detail 2/A5-1 on the attached sheet for revisions to the Upper Level Reflected Ceiling Plan.
- b. Reflected Ceiling Plan Flag Notes: Delete flag note 1.
- c. Reflected Ceiling Plan Flag Notes: Add flag note 5 for Wrestling Mat Storage.

SHEET S1-1: STRUCTURAL NOTES AND DESIGN DATA

- a. See the attached sheet for updated design loads.

SHEET S2-2: UPPER-LEVEL FRAMING PLAN & DETAILS

- a. See detail 1/S2-2 on the attached sheet for support for the mat hoist supports.
- b. See Roof Keynotes for added keynote 305.

SHEET S2-3: UPPER-LEVEL FRAMING DETAILS

- a. Delete this sheet in its entirety.

MECHANICAL DRAWINGS

- a. See Morrissey Engineering Addendum 2 narrative and attachments.

ELECTRICAL DRAWINGS

- a. See Morrissey Engineering Addendum 2 narrative and attachments.

END OF ADDENDUM

**SECTION 00 30 30
BID FOR COMBINED CONTRACT**

**PROJECT NAME: LEWIS CENTRAL MIDDLE SCHOOL ATHLETIC BUILDING
ADDITION/RENOVATION**

PROJECT CITY/STATE: COUNCIL BLUFFS, IOWA

BCDM PROJECT NO.: 5551-05

0.01 BIDDING INFORMATION:

- A. Bid of _____ a
corporation organized and existing under the laws of the State of

_____; or a partnership consisting of

_____, partners; or an
individual hereinafter called the bidder.
- B. To: Dr. Brent Hoelsing
Superintendent of Schools
Lewis Central Community School District
4121 Harry Langdon Blvd.
Council Bluffs, Iowa 51503
- C. The undersigned acknowledges that he/she has received and familiarized himself/herself with the following:
1. Project Manual dated February 23, 2026.
 2. Drawings:
 - a. Sheets G0-0 thru G0-1 (2 Sheets)
 - b. Sheets C0-1 thru C4-1 (6 Sheets)
 - c. Sheets A0-0 thru A6-1 (13 Sheets)
 - d. Sheets S1-1 thru S2-2 (4 Sheets)
 - e. Sheets M0-0 thru M5-1 (11 Sheets)
 - f. Sheets E0-0 thru E4-0 (9 Sheets)
 3. Addenda: No. _____ through _____
- D. The undersigned further acknowledges that he/she has visited the site and familiarized himself/herself with local conditions affecting the cost of the Work at the place where the Work is to be done.
- E. In submitting this bid, the undersigned agrees:
1. To furnish all material, labor, tools, expendable equipment, and all utility and transportation services necessary to perform and complete, in a workmanlike manner, all of the Work required for the Combined Contract, including General Construction, Mechanical Work and Electrical Work in accord with the Bidding Documents prepared by BCDM and its subconsultants, for the consideration hereinafter set forth.
 2. To hold his/her bid open for 30 days after the receipt of bids, and to accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
 3. To enter into and execute a Contract, if awarded on the basis of this bid, and to furnish a Performance Bond and a Payment Bond in accord with the General Conditions and General Requirements of this Contract.
 4. To start and complete the Work according to the schedule specified in Section 01 10 00, and as shown on the Drawings.

0.02 BIDDING REQUIREMENTS:

- A. **LUMP SUM BASE BID.** The undersigned hereby proposes and agrees to perform the foregoing, based on the dates identified in Section 01 10 00 Summary, for the Lump Sum of

_____ Dollars

(\$ _____).

(Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern).

- B. **ALTERNATE BIDDING OPTION.** Under this alternate bidding option provide a lump sum alternate bid and proposed completion dates for this project.

LUMP SUM ALTERNATE BASE BID. The undersigned hereby proposes and agrees to perform the foregoing, for the Lump Sum of

_____ Dollars

(\$ _____).

(Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words will govern).

Proposed Alternate completion dates:

Existing Side:

a. Substantial Completion: _____

b. Temporary Certificate of Occupancy: _____

Entire Project:

a. Substantial Completion: _____

b. Certificate of Occupancy: _____

c. Final Completion: _____

- C. **VOLUNTARY SUBSTITUTIONS.** The undersigned proposes the following Voluntary Substitutions:

1.	<u>Product</u>	<u>Manufacturer</u>	<u>Model No.</u>	<u>Difference in Cost</u>
a.	_____	_____	_____	Add/Deduct \$ _____
b.	_____	_____	_____	Add/Deduct \$ _____
c.	_____	_____	_____	Add/Deduct \$ _____
d.	_____	_____	_____	Add/Deduct \$ _____

- D. The undersigned has attached the required Bid Security as stated in the Instructions to Bidders.
- E. In submitting this bid, it is understood that the right to reject any and all bids and to waive irregularities in the bidding has been reserved by the Owner.

Lewis Central Middle School Athletic
Building Addition/Renovation

Dated this _____ day of _____, 2026

Name of Bidder

Address

City / State / Zip

Authorized Officer

Telephone Number

Fax Number


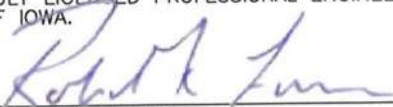
END OF SECTION



Geotechnical Exploration Report

LCMS Building Addition & Stair Tower Expansion

**3820 Harry Langdon Boulevard
Council Bluffs, Iowa**

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
	<p> _____ ROBERT K. LAPKE LICENSE NUMBER 15923 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2024</p> <p>PAGES OR SHEETS COVERED BY THIS SEAL: <u>Entire Bound Document</u></p>

12/18/25
DATE

Prepared for:
Lewis Central Community School District
4121 Harry Langdon Boulevard
Council Bluffs, IA 51503

December 18, 2025
TG Project No. 25572.01

THIELE GEOTECH, INC.
13478 Chandler Road
Omaha, Nebraska 68138-3716
402.556.2171 Fax 402.556.7831
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Geotechnical Exploration Report
LCMS Building Addition & Stair Tower Expansion

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INTRODUCTION

Thiele Geotech, Inc. has completed a geotechnical exploration study for the proposed metal building addition and stair tower expansion at the Lewis Central Middle School (LCMS) located at 3820 Harry Langdon Boulevard in Council Bluffs, Iowa. The purpose of this study was to identify the general soil and ground water conditions underlying the site; to evaluate engineering properties of the existing soils; to provide earthwork and site preparation recommendations; and to recommend design criteria and parameters for foundations and other earth supported improvements.

This study included soil borings, laboratory testing, and engineering analysis. A series of three test borings was spaced across the project site at strategic locations. The field and laboratory data are presented in the Appendix, along with a description of investigative methods.

The drilling and testing performed for this study were conducted solely for geotechnical analysis. No analytical testing or environmental assessment has been conducted. Any statements or observations in this report regarding odors, discoloration, or suspicious conditions are strictly for the information of our client. If an evaluation of environmental conditions is desired, a separate environmental assessment should be conducted. This study did not include biological assessment (e.g. mold, fungi, bacteria) or evaluation of measures for their control.

It should also be noted that this report was prepared for design purposes only, and may not be sufficient for a contractor in bid preparation. Prospective contractors should evaluate potential construction problems on the basis of their own knowledge and experience in the local area and on similar projects, taking into account their own intended construction methods and procedures.

This report is an instrument of service prepared for use by our client on this specific project. The report may be duplicated as necessary and distributed to those directly associated with this project, including members of the design team and prospective contractors. However, the technical approach and report format shall be considered proprietary and confidential, and this report may not be distributed in whole or in part to any third party not directly associated with this project. By using and relying on this report, all other parties agree to the same terms, conditions, and limitations to which the client has agreed.

PROJECT DESCRIPTION

Our understanding of the project is based upon information provided by BCDM Architects.

The project consists of constructing an addition to the northeast side of the existing metal building located west of Lewis Central Middle School and expansion of the schools' existing stair tower on the southwest end of the skywalk located at 3820 Harry Langdon Boulevard in Council Bluffs, Iowa. Plans for both projects were not available at the time of this report. However, the addition is anticipated to utilize the existing metal structure and expansion of the stair tower is assumed to utilize similar construction to the existing tower. We assumed maximum column loads of 50 kips for the addition and stair tower.

A grading plan was not provided at the time of this report. Because grades are relatively flat at the location of the addition, we assume that cuts and fills of 2 feet or less will be required to match the existing finished floor elevation. We further assume the remainder of the exterior grading is expected to be similar. No site retaining walls are planned as part of the project and assume all slopes are proposed at 3H:1V or flatter.

SURFACE AND SUBSURFACE CONDITIONS

SITE CONDITIONS

The project site is at the Lewis Central Middle School located at 3820 Harry Langdon Boulevard in Council Bluffs, Iowa. The site is generally bound to the northwest by the Lewis Central football and softball field, to the northeast by Harry Langdon Boulevard, to the southwest by a tree line/former railroad, and to the southeast by the Lewis Central Operations building. Both areas were surfaced with asphalt at the time of our exploration. The topography of the project site is generally flat, with gradual slopes down to the southeast.

LOCAL GEOLOGY

The project site is located on an alluvial fan within the floodplain of the Missouri River. The alluvial fan is associated with the Mosquito Creek. The alluvial fan is the result of a depositional setting produced when the relatively steep Mosquito Creek reached the broad, flat Missouri River Valley. Alluvial fans are typically formed when streams or rivers with a relatively high velocity have their velocities checked by advancing into a flatter region.

The Omaha/ Council Bluffs area consists of a broad range of loess-covered hills that have been bisected by the valley of the Missouri River. Tributary streams and creeks such as the Mosquito, Indian, Honey, and Papillion, that flow into the Missouri River have also eroded and bisected the loess-covered hills, but to a lesser degree.

The surface geology of the Missouri River Basin is Pleistocene in age and consists of eolian (wind-blown) deposits of Peoria and Loveland loess. The loess formed in dune-shaped hills between major drainageways. The Peoria loess typically consists of silty lean clays that are stiff when dry but become softer with increasing moisture content. The Peoria often exhibits low unit weight and is collapse susceptible. The Loveland loess is an older deposit, and typically consists of lean clays. The Loveland generally exhibits higher unit weights and shear strengths than the Peoria.

The loess overlies Pleistocene glacial deposits of Kansan till. The till consists of lean to fat clays mixed with sand, gravel, and occasional cobbles. The glacial deposits are generally fairly deep, but are sometimes near the surface at lower elevations on steep slopes. Pennsylvanian limestone and shale form the bedrock unit below the glacial deposits. The depth to bedrock is normally great, and rock is rarely encountered in construction.

Along drainageways, alluvial and colluvial deposits are typically present. These soils were formed by erosion of the adjoining loess-mantled hills. Alluvial deposits are generally present along creeks and in major drainageways. The upper several feet of alluvium are usually stiffer due to the effects of desiccation. Colluvial soils are usually located at the base of steep slopes and in upland draws, and are formed by local creep and sloughing.

SOIL CONDITIONS

The soils encountered in the test borings generally consisted of man-placed fill and alluvium.

Man-placed fill was encountered beneath the pavement in borings B-2 and B-3, extending to a depth of 3 to 8 feet. It was generally described as dark gray, brown, or grayish brown, dry to moist, firm to very hard, lean clay. All fill samples had a calculated compaction of over 100 percent of the maximum dry density, based on an assumed Standard Proctor (ASTM D698).

Alluvium was encountered beneath the pavement in boring B-1 and beneath the fill in borings B-2 and B-3, extending to a depth of 20 to 30 feet. It was generally described as dark gray, grayish brown, or gray, very moist to wet, soft to firm, lean clay or fat clay.

Ranges of engineering properties from laboratory tests on selected samples are presented in Table 1.

Table 1 - Laboratory Results

Soil Layer	Moisture Content (%)	Dry Unit Weight (pcf)	Unconfined Compressive Strength (tsf)	Standard Penetration Values (N)*	Classification (LL/PI)
Man-placed fill	7 to 20	106 to 120	1.4	--	CL (visual)
Alluvium	27 to 39	82 to 95	1.1 to 1.3	11	CH (63/33) CL (36/13)

* Standard Penetration Values are actual field recorded values and have not been corrected for hammer energy

GROUND WATER OBSERVATIONS

Ground water levels were observed in the borings as presented in Table 2. Note that ground water levels may fluctuate due to seasonal variations and other factors. The materials encountered in the test borings have relatively low permeabilities and observations over an extended period of time through use of piezometers or cased borings would be required to better define current ground water conditions.

Table 2 - Water Level Observations

Boring Number	Boring Elevation (ft.)	Water Level (ft. below grade)		Ground Water Elevation (ft.)
		During Drilling	End of Drilling	
B-1	978	15.2	17.2	963
B-2	978	17.9	Cave @ 22.6	960
B-3	978	18.1	8.9	969

Ground water observations were made in the borings both during and after completion of drilling operations. Boring B-3 was drilled with hollow stem augers limiting observation during drilling operations. Upon removal of the augers, partial filling of the boring occurred due to the loss of cuttings into the boring. Water level observations taken after completion of the borings were limited to the remaining depth of the open boring. The water level observations include the condition observed (such as cave in) and the depth to which the observations could be made.

ANALYSIS AND RECOMMENDATIONS

GENERAL

The soils encountered at this site consisted of man-placed fill and alluvium. Footings for the metal building addition are expected to extend through the fill and bear on the alluvium. Footings for the stair tower expansion are expected to bear in the existing man-placed fill. With the following recommendations, both areas of the site appear to be suitable for support of the addition and stair tower expansion on a shallow foundation system.

Ground water was encountered in all borings at a depth of 9 to 18 feet below existing ground surface. Ground water is not anticipated to be encountered during construction of the addition. However, it should be noted that ground water levels may fluctuate due to seasonal variations and other factors.

SITE PREPARATION

Undocumented Fill

Thiele Geotech was not involved with monitoring fill placement at this site. Technically, the fill would be considered undocumented due to this fact. Typically, there is risk associated with supporting new buildings on undocumented fill. Our typical recommendation for undocumented fill is to completely remove and recompact this layer. However, all fill samples had calculated compaction levels over 100 percent and are firm to very hard. For these reasons, we are not recommending removal and recompaction of these soils.

However, because the fill is technically undocumented, the owner will need to accept some risk associated with settlement of the fill layer over time; although, the risk appears to be low. Additionally, there is some risk that isolated areas of weak fill could be present in other parts of the site outside of the boring locations. If weak or unsuitable fill is encountered at footing bearing elevations, we recommend overexcavating and recompacting this material. Reworking these areas would lower the risk of adverse performance due to undocumented fill. We recommend that footing excavations be observed by a representative of the geotechnical engineer to determine if any remedial action is required prior to footing construction.

Expansive Soils

Grading for the metal building addition is assumed to require cuts and fills of 2 feet or less. The alluvium encountered at the surface of boring B-1 classified as a fat clay soil which has a tendency to shrink and swell with slight variations in moisture content. We recommend that any fat clay encountered at floor slab subgrade elevation be undercut by a minimum of 24 inches to allow for replacement with moisture conditioned lean clay fills in accordance with recommendations in the Earthwork and Excavations section.

It should be noted that even with these recommendations there is still some risk that any fat clay soils below subgrade level could swell after the slab is placed.

EARTHWORK AND EXCAVATIONS

Rubble and waste materials from site clearing and demolition should be removed from the site and lawfully disposed or recycled. Waste materials should not be buried on-site.

Relocation of any existing utility lines within the zone of influence of proposed construction areas should also be completed as part of the site preparation. The lines should be relocated to areas outside of the proposed construction. Excavations created by removal of the existing lines should be cut wide enough to allow for use of heavy construction equipment to recompact the fill. In addition, the base of the excavations should be evaluated by a geotechnical engineering representative prior to placement of fill.

Topsoil and vegetation should be stripped to a depth of 4 to 6 inches in areas to be disturbed during grading, including borrow and fill areas. Stripping depths will likely vary and should be adjusted to remove all vegetation and root systems. A representative of the geotechnical engineer should monitor the stripping operations to observe that all unsuitable materials have been removed. Care should be exercised to separate these materials to avoid incorporation of the organic matter in structural fill sections.

Surfaces to receive fill should be broken up and recompacted to allow new fill to bond to the existing soil. Slopes steeper than 5H:1V should be benched before placing fill.

Except for fat clay within 2 feet of floor slab subgrade elevation, the excavated site soils will generally be suitable for reuse as structural fill, although some moisture conditioning may be required. Any off-site borrow should be a clean, inorganic silt or lean clay with a liquid limit less than 45 and a plasticity index less than 20. Borrow material should not contain an appreciable amount of roots, rock, or debris, and should not contain any foreign material with a dimension greater than 3 inches.

All fills should be placed and compacted as structural fill. Fill should be placed in thin lifts not to exceed 8 inches loose thickness. Structural fill should be compacted with a sheepsfoot type roller to a minimum of 95 percent of the maximum dry density (ASTM D698, Standard Proctor). Moisture content should be controlled to between -3 and +4 percent of optimum.

Backfill soils in utility trenches should be compacted to a minimum of 95 percent of the maximum dry density at a moisture content between -3 and +4 percent of optimum. Lift thicknesses should be appropriately matched to the type of compaction equipment used. Backfill soils around foundations, basement walls, and retaining walls should be compacted to a minimum of 95 percent of the maximum dry density at a moisture content between -3 and +4 percent of optimum. Granular backfill should not be used in exterior trenches or around foundation elements.

Quality control testing is an important part of any earthwork operation. It is recommended that a representative of the geotechnical engineer periodically monitor earthwork operations to verify proper compliance with these recommendations, including compaction levels.

OSHA's Construction Standards for Excavations require that the contractor's excavation activities follow certain worker safety procedures. These include a requirement that excavations over 4 feet deep be sloped back, shored, or shielded. The soils encountered in the test borings generally classify as type B and C soils according to the OSHA standard. The maximum allowable slope for an unbraced excavation in these soils is 1H:1V and 1.5H:1V, respectively, although other provisions and restrictions apply. Excavations over 20 feet deep require specific design by a licensed Professional Engineer. The contractor is solely responsible for site/excavation safety and compliance with OSHA regulations. The geotechnical engineer assumes no responsibility for site safety, and the above information is provided only for consideration by the designers.

SHALLOW FOUNDATIONS

The site conditions identified are favorable for the use of conventional spread foundations to support structural loads. Based on our bearing capacity and settlement analysis, a net allowable bearing pressure of 1,500 pounds per square foot was determined for both the metal building addition and stair tower expansion. This allowable bearing pressure may be used to size wall footings and column pads. The bearing pressure was calculated based on a safety factor of 3 against bearing failure. Foundation settlements are estimated at less than 1 inch total and ½ inch differential over a span of 20 feet. If maximum design loads significantly exceed 50 kips for columns, this bearing pressure may not be applicable and should be reevaluated.

It is recommended that column footings be at least 3 feet square and that load bearing wall footings be at least 16 inches wide. Exterior footings and footings in unheated areas should be founded a minimum of 3.5 feet below adjacent grade to provide reasonable frost protection. It is recommended that all footings be steel reinforced.

The condition of the bearing soils can vary and should be observed by the geotechnical engineer at the time of excavation. If unsuitable bearing soils are identified, they should be improved by compaction or replaced by structural fill. As an alternative, the footing bottom could be extended through unsuitable materials if suitable material is present below.

INTERACTION WITH EXISTING STRUCTURES

It is anticipated that some new footings will be installed adjacent to existing footings where the metal building addition and stair tower expansion connect to the existing buildings. New footings should bear at about the same elevation as existing footings. Where excavations extend lower than the existing foundation, care should be taken to avoid disturbing the bearing soils of the existing footings.

Excavations should not extend below an imaginary plane projecting out and down from the bottom edge of the existing footings at a 1H:1V slope.

We assume that both existing buildings do not have basements. However, we should be notified if either structure does have a basement as placement of new footings next to existing basement walls should not be allowed to avoid overloading the wall and due to concern over the quality of existing backfill.

Some overlap in stress distribution from the new and existing footings may occur, and could cause some minor movements of the existing structure. Maintaining a clear distance between footings equal to the width of the new footing would significantly reduce this risk. The design should also account for some differential movements between the addition and the existing structure.

SEISMIC SITE CLASS

Seismic structural design requirements are dictated by a site classification based on average soil properties within the top 100 feet. Based on our local experience, the soil profile was estimated below the maximum boring depth. The average undrained shear strength was then estimated based on the actual laboratory testing and on assumed soil properties for the deeper soil profile.

The site classifies as Site Class D (stiff soil profile) according to Table 1613.3.3 of the 2018 International Building Code.

FLOOR SLABS

To avoid localized slab failures, it is important that interior backfill around foundation elements and in plumbing trenches be properly compacted. Interior backfill should be compacted to a minimum of 95 percent of the maximum dry density at a moisture content between -3 and +4 percent of optimum (ASTM D698, Standard Proctor).

To provide uniform support for floor slabs, the upper 6 inches of the subgrade should be compacted to a minimum of 95 percent of the maximum dry density at a moisture content between -3 and +4 percent of optimum (ASTM D698, Standard Proctor). Care should be taken to maintain the condition of the subgrade. Areas that become saturated, frozen, or disturbed should be reworked prior to slab placement. Any unstable areas should be excavated and replaced with structural fill. A granular cushion beneath the floor slab is considered a construction convenience and may be used, but is not considered critical to proper slab performance.

A 10 mil thick vapor retarder is recommended beneath the concrete to inhibit upward migration of moisture through the slab. Care should be taken when finishing concrete placed directly on a vapor retarder to minimize potential problems with curling and blistering.

Interior partition walls weighing up to 1,000 pounds per lineal foot may be supported directly on the floor slab. It is recommended that control joints be provided between partition walls that bear on the

floor slab and walls supported on footings. Entrance slabs should be designed as structural stoops with a cavity beneath the slab to accommodate frost heave.

Contraction joints are important to control the location of cracks in the floor slab that result from stresses caused by normal drying shrinkage. Joints should be cut as soon as practical after the concrete has set sufficiently to support foot traffic, and must be cut before any shrinkage cracks form. Contraction joints should be cut to a minimum of $\frac{1}{4}$ of the slab thickness ($\frac{1}{5}$ of the thickness for early entry saw method). Joints should be spaced no more than 30 times the thickness of the slab or 15 feet maximum. Panels should be kept as square as possible, with the length to width ratio limited to 125 percent. Dowel bars should be used for load transfer across construction joints where slabs are subjected to heavy loads. Joints should be carefully planned and laid out to match column lines and to meet reentrant corners. Joints should be perpendicular to edges and should not form angles less than 45 degrees or over 225 degrees. To accommodate the relative movement that commonly occurs between floors and foundations, isolation joints should be provided against walls, and diamond or circular isolation joints should be constructed around columns.

SURFACE DRAINAGE AND LANDSCAPING

The long-term performance of any project is contingent upon keeping the subgrade soils at more or less constant moisture content, and by not allowing surface drainage a path to the subsurface. Positive surface drainage away from structures must be maintained at all times. Landscaped areas should be designed and built such that irrigation and other surface water will be collected and carried away from the structure.

Construction staging and grading should provide for removal of surface water from the site. If prolonged ponding of surface water occurs, removal and replacement of wet or disturbed soils may be necessary. Temporary grades should be established to prevent runoff from entering excavations or footing trenches. Backfill should be placed as soon as structural strength requirements are met, and should be graded to drain away from the building.

The final grade of the foundation backfill and any overlying pavements should have a positive slope away from foundation walls on all sides. For grass or landscape covered areas, a minimum slope of 1 inch per foot for 5 to 10 feet away from the building is recommended. A minimum slope of 2 percent is recommended for grassed or landscaped areas of the site away from the building. For paved areas, minimum slopes of 1 percent for concrete pavements and $1\frac{1}{2}$ percent for asphalt pavements are recommended. Pavements and exterior slabs that abut the structure should be carefully sealed against moisture intrusion at the joint.

OTHER RECOMMENDATIONS

During detailed design, additional issues may arise and possible conflicts may occur with our recommendations. Such issues and conflicts should be resolved through dialogue between the

geotechnical engineer and designers. It is recommended that the geotechnical engineer review the final design, including the plans and specifications, to verify that our recommendations are properly interpreted and incorporated into the design.

If any changes are made in the design of the project, including the nature or location of proposed facilities on the site or significant elevation changes, the analysis and recommendations of this report shall not be considered valid unless the changes are reviewed. The analysis and recommendations of this report should not be applied to different projects on the same site or to similar projects on different sites.

The analysis and recommendations in this report are based upon borings at specific locations. The nature and extent of variation between boring locations is impossible to predict. Because of this, geotechnical recommendations are preliminary until they have been confirmed through observation of site excavation and earthwork preparation. If variations appear during subsequent exploration or during construction, we may reevaluate our recommendations and modify them, if appropriate. The geotechnical engineer should be retained during construction to observe compliance with the recommendations of this report and to provide quality control testing of earthwork construction. If these services are provided by others, including the contractor, the entity that provides construction phase observation and testing shares responsibility as the geotechnical engineer of record for implementing or modifying these recommendations.

Respectfully submitted,
Thiele Geotech, Inc.

Prepared by,

Collin R. Steimer, E.I.

Prepared under the supervision of,



Robert K. Lapke, P.E.
Iowa License 15923

APPENDIX

Subsurface Exploration Methods

Legend of Terms

Boring Location Plan

Boring Logs

Soil Test Summary

Consolidation Test

SUBSURFACE EXPLORATION METHODS

The fieldwork for this study was conducted on November 20, 2025. The exploratory program consisted of three test borings drilled at the approximate locations shown on the Boring Location Plan. Boring locations were selected to provide the desired site coverage and were adjusted to accommodate access conditions. The boring locations were laid out in the field using a handheld GPS and coordinates obtained from Google Earth. Elevations were obtained from the Topographic Survey developed by Lamp Rynearson. The boring locations and elevations should only be considered accurate to the degree implied by the methods used to define them.

Test borings were advanced using flight augers powered by a truck-mounted drill rig. Soil samples were obtained at selected depths as indicated on the boring logs. A 3-inch nominal diameter thin-walled sampler was hydraulically pushed to obtain undisturbed samples. Disturbed samples were obtained by driving a 2-inch nominal diameter split barrel sampler while conducting standard penetration tests (SPT). The SPT values presented on the boring logs are actual field recorded numbers and have not been corrected for hammer energy or overburden.

The boring logs were prepared based on visual classification of the samples and drill cuttings, and by observation of the drilling characteristics of the subsurface formations. The logs have been supplemented and modified based on the laboratory test results and further examination of the recovered samples. The stratification lines on the boring logs represent the approximate boundary between soil types, but the insitu transition may be gradual.

Water level observations were made at the times stated on the boring logs. The borings were backfilled with drill cuttings at the completion of the fieldwork.

The field boring logs were reviewed to outline the depths, thicknesses, and extent of the soil strata. A laboratory testing program was then developed to further classify the basic soils and to evaluate the engineering properties for use in our analysis.

Laboratory tests to further classify the soils included visual classification, moisture content, dry unit weight, and Atterberg limits. The shear strengths of cohesive samples were evaluated using the unconfined compression test. Soil compressibility was evaluated using the one-dimensional consolidation test.

The boring logs and related information in this report are indicators of subsurface conditions only at the specific locations and times noted. Subsurface conditions, including ground water levels, at other locations of the site may differ significantly from conditions that exist at the sampling locations. Also note that the passage of time may affect conditions at the sampling locations.

Soil Description Terms

Consistency - Fine Grained Very Soft, Soft, Firm, Hard, Very Hard	Consistency - Coarse Grained Very Loose, Loose, Medium Dense, Dense, Very Dense	Moisture Conditions Dry, Slightly Moist, Moist Very Moist, Wet (Saturated)
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Sample Identification

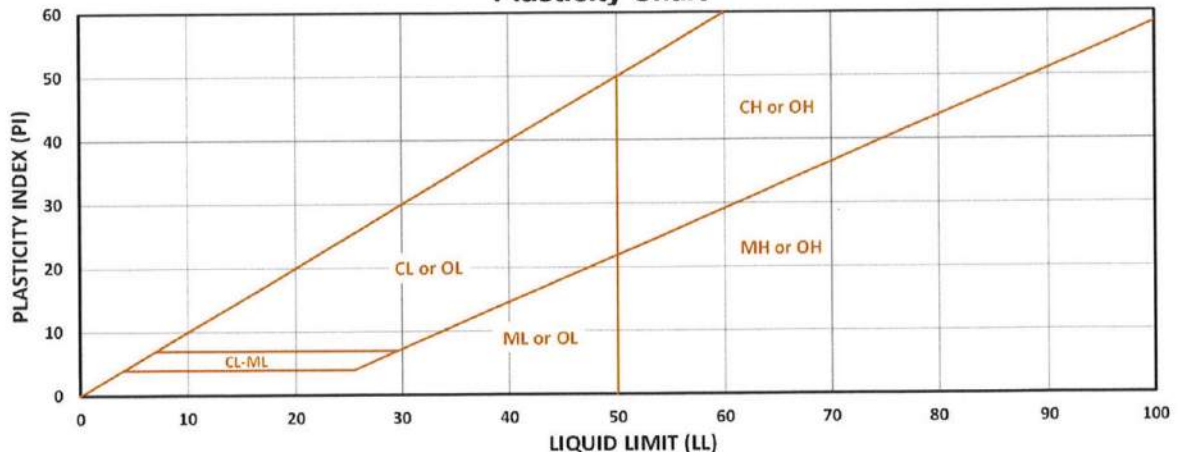
Sample Type U -- Undisturbed (Shelby Tube) S -- Split barrel (disturbed) C -- Continuous sample A -- Auger cuttings (disturbed)	Sample Data No. -- Number SPT -- Standard penetration test bpf -- blows per foot Rec -- Recovery	Laboratory Data MC -- Moisture content γ_d -- Dry unit weight q_u -- Unconfined compression LL/PI -- Liquid limit & plasticity index
--	---	--

Unified Soil Classification System

Peat	Pt	Highly organic soils	
Fat Clay	CH	Clay - Liquid Limit > 50 *	50% or more smaller than No. 200 sieve
Elastic Silt	MH	Silt - Liquid Limit > 50 *	
Lean Clay	CL	Clay - Liquid Limit < 50 *	More than 50% larger than No. 200 sieve and % sand > % Gravel
Silt	ML	Silt - Liquid Limit < 50 *	
Silty Clay	CL-ML	Silty Clay *	
Clayey Sand	SC	Sands with 12 to 50 percent smaller than No. 200 sieve *	More than 50% larger than No. 200 sieve and % sand > % Gravel
Silty Sand	SM		
Poorly-Graded Sand with Clay	SP-SC	Sands with 5 to 12 percent smaller than No. 200 Sieve *	More than 50% larger than No. 200 sieve and % gravel > % sand
Poorly-Graded Sand with Silt	SP-SM		
Well-Graded Sand with Clay **	SW-SC	Sands with less than 5 percent smaller than No. 200 sieve *	More than 50% larger than No. 200 sieve and % gravel > % sand
Well-Graded Sand with Silt **	SW-SM		
Poorly-Graded Sand	SP	Gravels with 12 to 50 percent smaller than No. 200 Sieve *	More than 50% larger than No. 200 sieve and % gravel > % sand
Well-Graded Sand **	SW		
Clayey Gravel	GC	Gravels with 5 to 12 percent smaller than No. 200 sieve *	More than 50% larger than No. 200 sieve and % gravel > % sand
Silty Gravel	GM		
Poorly-Graded Gravel with Clay	GP-GC	Gravels with less than 5 percent smaller than No. 200 sieve *	More than 50% larger than No. 200 sieve and % gravel > % sand
Poorly-Graded Gravel with Silt	GP-GM		
Well-Graded Gravel with Clay **	GW-GC		
Well-Graded Gravel with Silt **	GW-GM		
Poorly-Graded Gravel	GP		
Well-Graded Gravel **	GW		

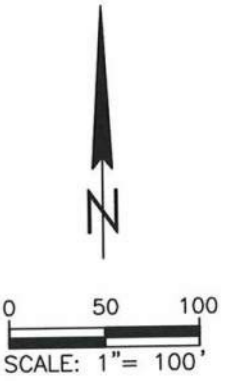
* See Plasticity Chart for definition of silts and clays
** See Criteria for Sands and Gravels for definition of well-graded

Plasticity Chart



Criteria for Sands and Gravels

Boulders	Cobbles	Coarse Gravel	Fine Gravel	Coarse Sand	Medium Sand	Fine Sand	FINES (silt or clay)
Sieve size 12"	3"	¾"	#4	#10	#40	#200	
Well-graded sands (SW) $C_u = D_{60}/D_{10} \geq 6$ and $C_c = (D_{30})^2 / (D_{10} \times D_{60}) \leq 3$ and ≥ 1							
Well-graded gravels (GW) $C_u = D_{60}/D_{10} \geq 4$ and $C_c = (D_{30})^2 / (D_{10} \times D_{60}) \leq 3$ and ≥ 1							



LEGEND:
 BORING LOCATION



PROJECT
 LCMS BUILDING ADDITION
 & STAIR TOWER EXPANSION
 3820 HARRY LANGDON BLVD, COUNCIL BLUFFS, IA
 JOB # 25572.01 | DATE: 12/18/25

BORING LOCATION PLAN



Thiele Geotech Inc.
 13478 Chandler Road
 Omaha, NE 68138
 Telephone: 402-556-2171

BORING NUMBER B-1

CLIENT Lewis Central Community School District PROJECT NAME LCMS Building Addition & Stair Tower Expansion
 PROJECT NUMBER 25572.01 PROJECT LOCATION 3820 Harry Langdon Boulevard, Council Bluffs, IA
 DRILLING DATE 11/20/2025 SURFACE Asphalt GROUND ELEVATION 978 ft BORING DEPTH 20.0 feet
 DRILLING METHOD Flight HOLE SIZE 6 inches GROUND WATER LEVELS:
 DRILLER Isaac Smith DRILL RIG CME 45B #008 ▽ DURING DRILLING 15.2 ft / Elev 962.8 ft
 LOGGED BY Jordan Skipper CHECKED BY Broc Burmeister ▽ END OF DRILLING 17.2 ft / Elev 960.8 ft
 NOTES Boring backfilled with cuttings AFTER DRILLING Not measured

DEPTH (ft)	GRAPHIC LOG	VISUAL/MANUAL DESCRIPTION					REMARKS	SAMPLE TYPE NUMBER	RECOVERY (IN)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	q _u (tsf)	ATTERBERG LIMITS			FINES CONTENT (%)
		MOISTURE	COLOR	CONSIST.	SOIL TYPE	GEOLOGIC ORIGIN									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0																		
						7" asphalt roots												
		very moist	dark gray	firm	fat clay	alluvium	U-1	12			33.0	86.0	1.20	63	30	33		
5					lean clay		U-2	12			32.2	86.3	1.07					
10			grayish brown		fat clay		U-3	12			27.4	92.8						
15				soft	lean clay		U-4	12			34.0	86.0						
20		wet					U-5	12			38.6	81.9						

Bottom of borehole at 20.0 feet.



Thiele Geotech Inc.
 13478 Chandler Road
 Omaha, NE 68138
 Telephone: 402-556-2171

BORING NUMBER B-2

PAGE 1 OF 1

CLIENT Lewis Central Community School District **PROJECT NAME** LCMS Building Addition & Stair Tower Expansion
PROJECT NUMBER 25572.01 **PROJECT LOCATION** 3820 Harry Langdon Boulevard, Council Bluffs, IA
DRILLING DATE 11/20/2025 **SURFACE** Asphalt **GROUND ELEVATION** 978 ft **BORING DEPTH** 25.0 feet
DRILLING METHOD Flight **HOLE SIZE** 6 inches **GROUND WATER LEVELS:**
DRILLER Isaac Smith **DRILL RIG** CME 45B #008 ▼ **DURING DRILLING** 17.9 ft / Elev 960.1 ft
LOGGED BY Jordan Skipper **CHECKED BY** Broc Burmeister ▼ **END OF DRILLING** Cave @ 22.6
NOTES Boring backfilled with cuttings **AFTER DRILLING** Not measured

DEPTH (ft)	GRAPHIC LOG	VISUAL/MANUAL DESCRIPTION					REMARKS	SAMPLE TYPE NUMBER	RECOVERY (IN)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	q _u (tsf)	ATTERBERG LIMITS			FINES CONTENT (%)
		MOISTURE	COLOR	CONSIST.	SOIL TYPE	GEOLOGIC ORIGIN									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0																		
						7" asphalt minor gravel	U-1	8			6.7	119.6						
		dry	dark gray	very hard	lean clay	fill												
		very moist	dark gray	firm	lean clay	alluvium	U-2	6			27.6	95.0						
5						roots												
				soft			U-3	12			33.3	81.6						
10																		
		wet	grayish brown				U-4	8			30.1	91.8						
15																		
							U-5	8			35.0	86.9						
20																		
							S-6			11	32.1							
25						silty												

Bottom of borehole at 25.0 feet.

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Thiele Geotech Inc.
 13478 Chandler Road
 Omaha, NE 68138
 Telephone: 402-556-2171

BORING NUMBER B-3

CLIENT Lewis Central Community School District
PROJECT NUMBER 25572.01
DRILLING DATE 11/20/2025 **SURFACE** Asphalt
DRILLING METHOD HSA **HOLE SIZE** 8 inches
DRILLER Isaac Smith **DRILL RIG** CME 45B #008
LOGGED BY Jordan Skipper **CHECKED BY** Broc Burmeister
NOTES Boring backfilled with cuttings

PROJECT NAME LCMS Building Addition & Stair Tower Expansion
PROJECT LOCATION 3820 Harry Langdon Boulevard, Council Bluffs, IA
GROUND ELEVATION 978 ft **BORING DEPTH** 30.0 feet
GROUND WATER LEVELS:
 ▽ **DURING DRILLING** 18.1 ft / Elev 959.9 ft
 ▽ **END OF DRILLING** 8.9 ft / Elev 969.1 ft
AFTER DRILLING Not measured

DEPTH (ft)	GRAPHIC LOG	VISUAL/MANUAL DESCRIPTION					REMARKS	SAMPLE TYPE NUMBER	RECOVERY (IN)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	q _u (tsf)	ATTERBERG LIMITS			FINES CONTENT (%)
		MOISTURE	COLOR	CONSIST.	SOIL TYPE	GEOLOGIC ORIGIN									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0																		
						7" asphalt												
		moist	brown	hard	lean clay	fill	trace gravel	U-1	8			20.4	106.0					
			grayish brown	firm				U-2	12			19.8	106.7	1.44				
5																		
		very moist wet	gray	firm	fat clay	alluvium	roots, calcium nodules	U-3	10			27.0	95.1	1.32				
10																		
			grayish brown	soft	lean clay		Consol test	U-4	12			31.0	88.9		36	23	13	
15																		
								U-5	12			29.2	91.2					
20																		
								U-6	10			36.3	88.0					
25																		

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Thiele Geotech Inc.
13478 Chandler Road
Omaha, NE 68138
Telephone: 402-556-2171

CLIENT Lewis Central Community School District

PROJECT NAME LCMS Building Addition & Stair Tower Expansion

PROJECT NUMBER 25572.01

PROJECT LOCATION 3820 Harry Langdon Boulevard, Council Bluffs, IA

DRILLING DATE 11/20/2025

GROUND ELEVATION 978 ft BORING DEPTH 30.0 feet

DRILLING METHOD HSA

SURFACE Asphalt
HOLE SIZE 8 inches

GROUND WATER LEVELS:

DRILLER Isaac Smith

DRILL RIG CME 45B #008

DURING DRILLING 18.1 ft / Elev 959.9 ft

LOGGED BY Jordan Skipper

CHECKED BY Broc Burmeister

END OF DRILLING 8.9 ft / Elev 969.1 ft

NOTES Boring backfilled with cuttings

AFTER DRILLING Not measured

DEPTH (ft)	GRAPHIC LOG	VISUAL/MANUAL DESCRIPTION					SAMPLE TYPE NUMBER	RECOVERY (IN)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	q _u (tsf)	ATTERBERG LIMITS			FINES CONTENT (%)
		MOISTURE	COLOR	CONSIST.	SOIL TYPE	GEOLOGIC ORIGIN								REMARKS	LIQUID LIMIT	PLASTIC LIMIT	
25		wet	grayish brown	soft	lean clay	alluvium											
30							U-7	12			34.3	87.7					

Bottom of borehole at 30.0 feet.



Thiele Geotech Inc.
 13478 Chandler Road
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SUMMARY OF LABORATORY RESULTS

CLIENT Lewis Central Community School District

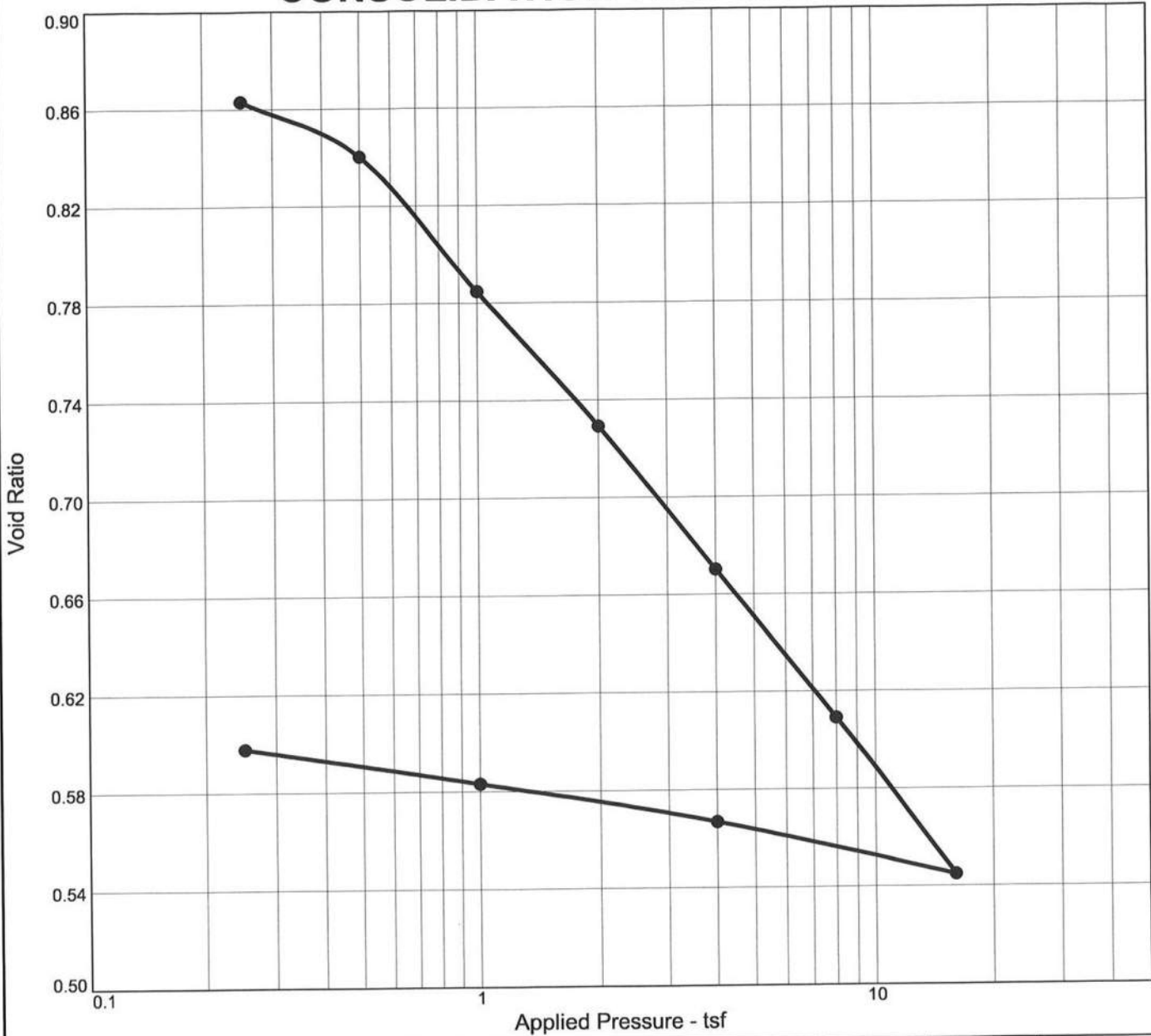
PROJECT NAME LCMS Building Addition & Stair Tower Expansion

PROJECT NUMBER 25572.01

PROJECT LOCATION 3820 Harry Langdon Boulevard, Council Bluffs, IA

Boring Number	Sample Number	Depth	Water Content (%)	Unit Weight		Void Ratio	Sat. (%)	Unconfined Compression		Atterberg Limits		% <#200 Sieve	Class.	Other Tests
				Wet Density (pcf)	Dry Density (pcf)			q _u (tsf)	Strain (%)	LL	PI			
B-1	U-1	0.5-2.0'	33.0	114.4	86.0	0.958	93	1.20	6.0	63	33		CH	
	U-2	3.5-5.0'	32.2	114.0	86.3	0.953	91	1.07	5.6					
	U-3	8.5-10.0'	27.4	118.3	92.8	0.815	91							
	U-4	13.5-15.0'	34.0	115.3	86.0	0.959	96							
	U-5	18.5-20.0'	38.6	113.5	81.9	1.058	99							
B-2	U-1	0.5-2.0'	6.7	127.6	119.6	0.408	44							
	U-2	3.5-5.0'	27.6	121.2	95.0	0.774	96							
	U-3	8.5-10.0'	33.3	108.8	81.6	1.064	85							
	U-4	13.5-15.0'	30.1	119.4	91.8	0.836	97							
	U-5	18.5-20.0'	35.0	117.3	86.9	0.939	100							
	S-6	23.5-25.0'	32.1											
B-3	U-1	0.5-2.0'	20.4	127.6	106.0	0.590	94							
	U-2	3.5-5.0'	19.8	127.8	106.7	0.579	92	1.44	4.9					
	U-3	8.5-10.0'	27.0	120.8	95.1	0.771	95	1.32	15.0					
	U-4	13.5-15.0'	31.0	116.5	88.9	0.895	94			36	13		CL	Consol
	U-5	18.5-20.0'	29.2	117.9	91.2	0.847	93							
	U-6	23.5-25.0'	36.3	120.0	88.0	0.915	100							
	U-7	28.5-30.0'	34.3	117.8	87.7	0.921	100							

CONSOLIDATION TEST REPORT



MATERIAL DESCRIPTION	USCS	AASHTO
grayish brown lean clay	CL	

LL	PI	Sp. Gr.	Overburden (tsf)	Dry Dens. (pcf)		Moisture		Saturation		Void Ratio		P _c (tsf)	C _c
				Init.	Final	Init.	Final	Init.	Final	Init.	Final		
36	13	2.7	.683	88.9		31.0 %	23.3	93.5 %	100.0	0.896	0.598	0.6	0.20

Preparation Process:	D2435 Method	C _r	Swell Press. (tsf)	%
Condition of Test:		0.03		

Project No. 25572.01 **Client:** Lewis Central Community School District
Project: LCM Building Addition & Stair Tower Expansion
Source of Sample: B-3 **Depth:** 13.5-15' **Sample Number:** U-4

Remarks:

Checked By:
Title:

THIELE GEOTECH, INC.

Figure

Dial Reading vs. Time

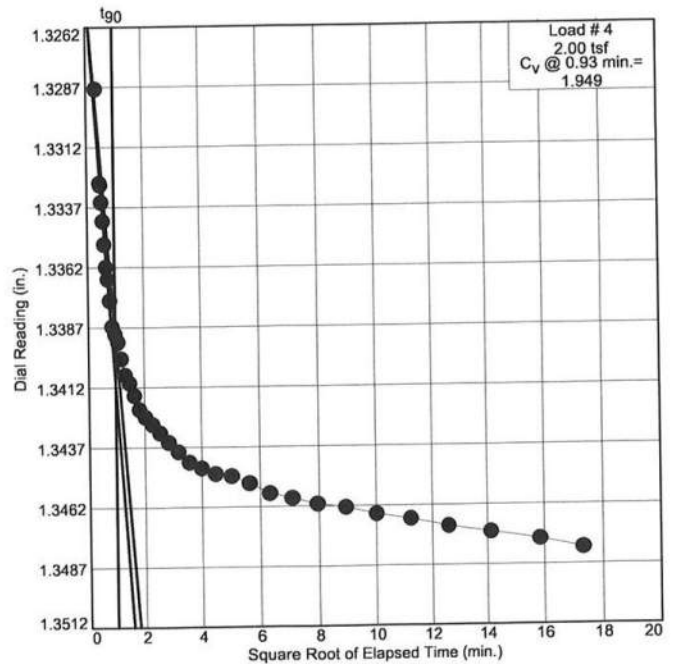
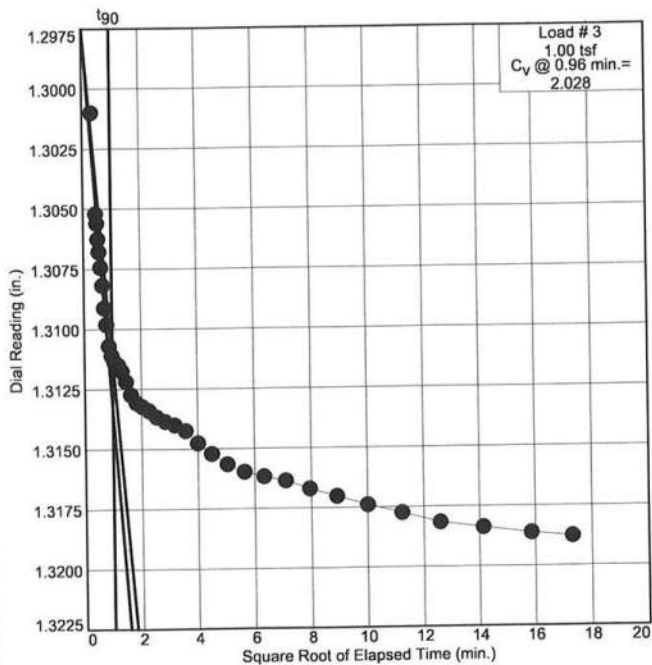
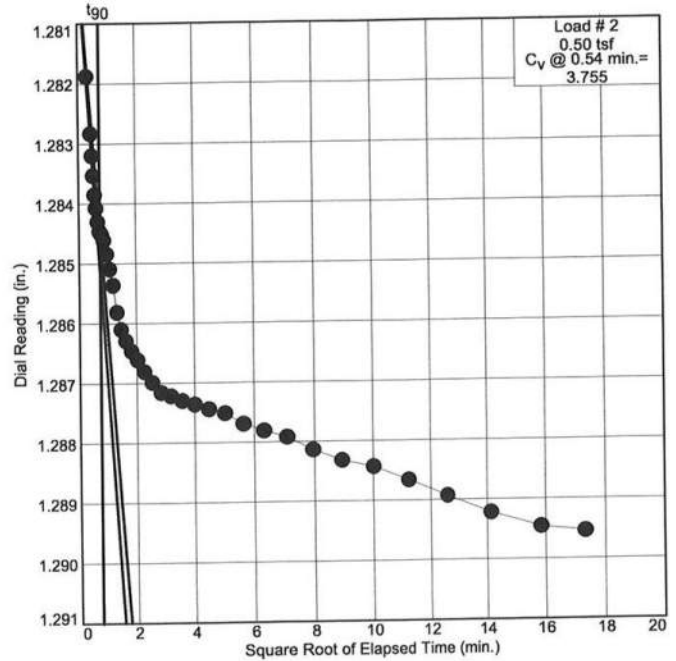
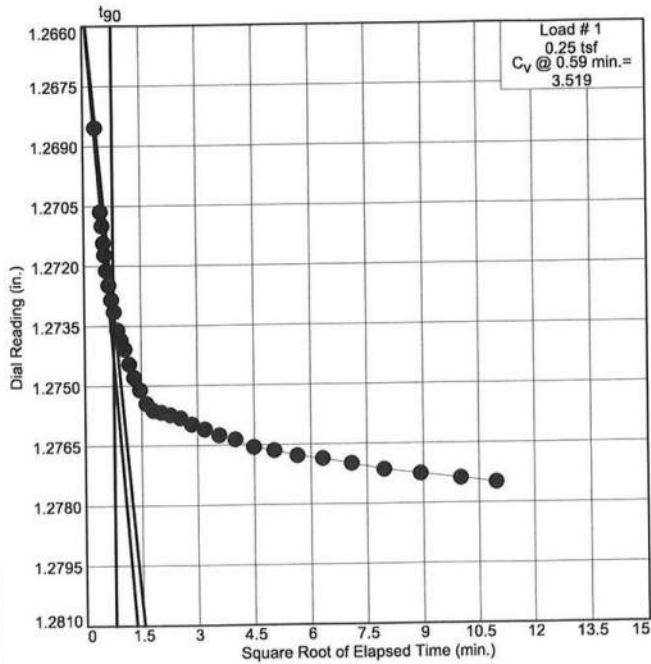
Project No.: 25572.01

Project: LCM Building Addition & Stair Tower Expansion

Source of Sample: B-3

Depth: 13.5-15'

Sample Number: U-4



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Figure

Dial Reading vs. Time

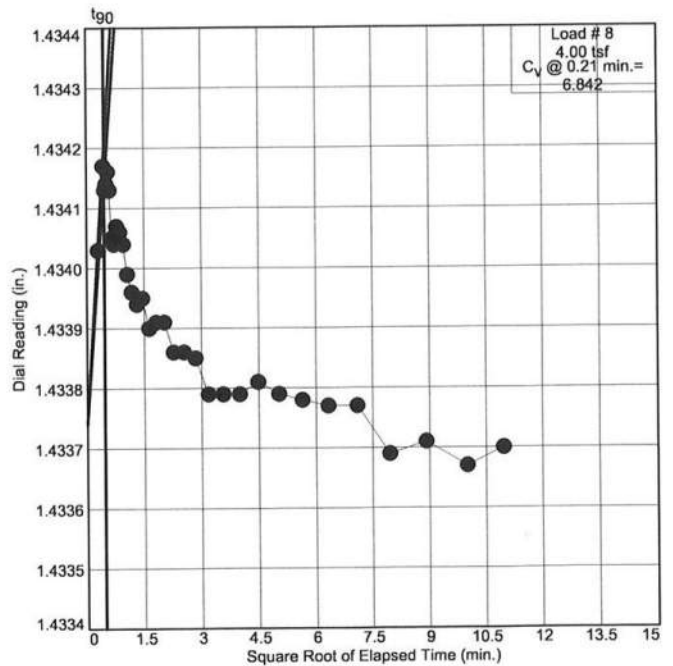
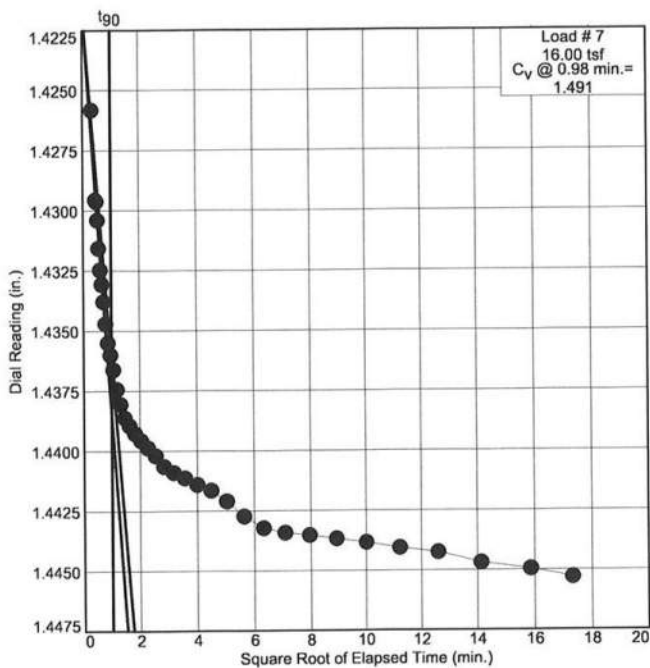
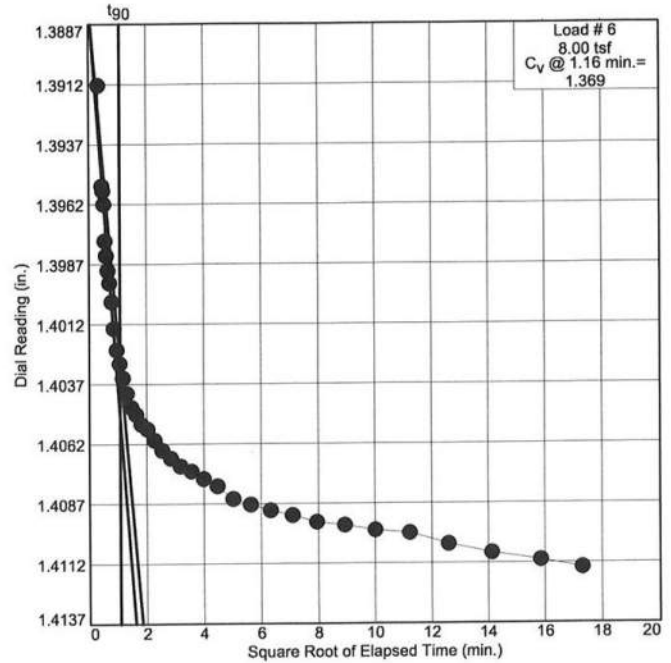
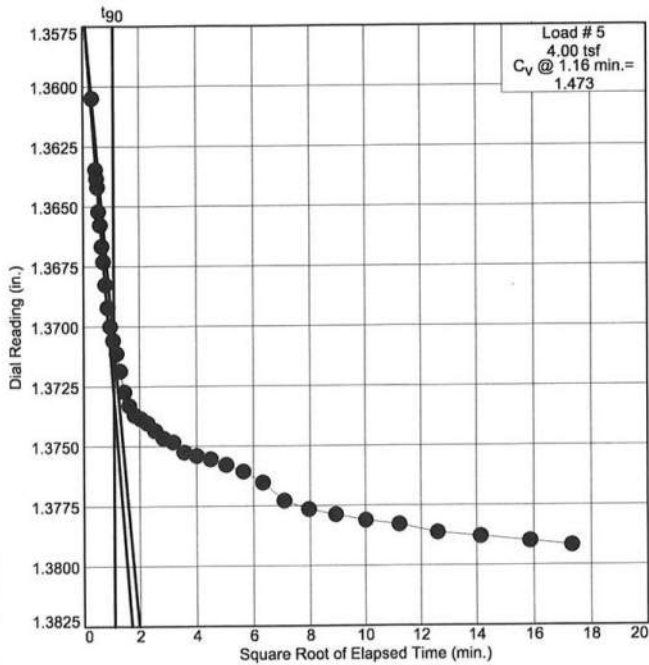
Project No.: 25572.01

Project: LCM Building Addition & Stair Tower Expansion

Source of Sample: B-3

Depth: 13.5-15'

Sample Number: U-4



THIELE GEOTECH, INC.

Figure

Dial Reading vs. Time

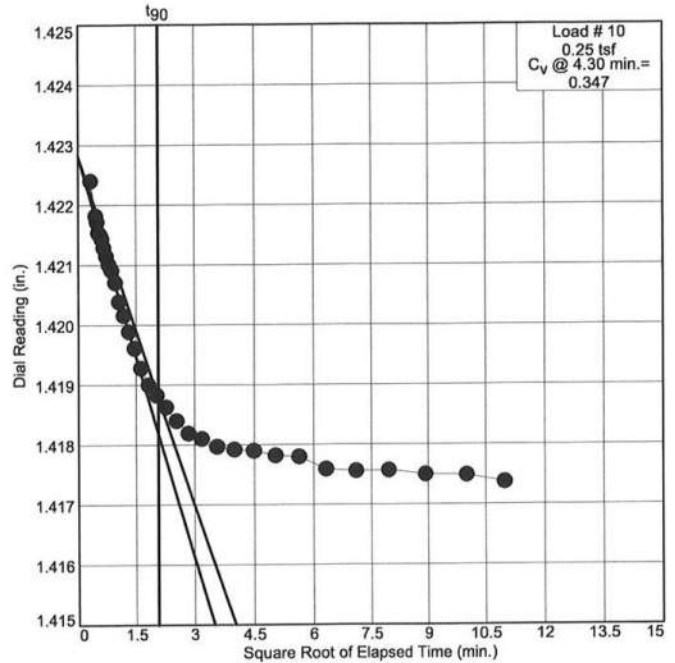
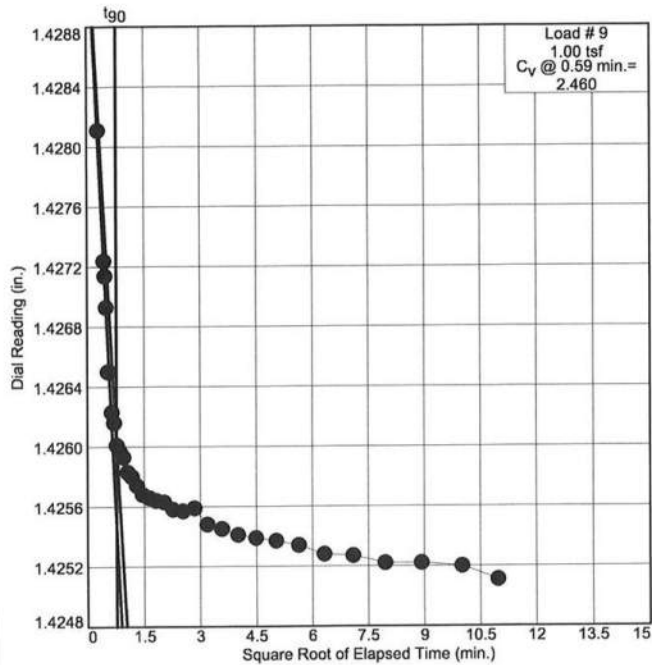
Project No.: 25572.01

Project: LCM Building Addition & Stair Tower Expansion

Source of Sample: B-3

Depth: 13.5-15'

Sample Number: U-4



THIELE GEOTECH, INC.

Figure

**SECTION 11 66 23.56
WRESTLING MAT STORAGE**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Wrestling Mat Hoist

1.02 RELATED REQUIREMENTS

- A. Section 05 12 00 - Structural Steel Framing: Structural steel framing to support Mat Hoist.
- B. Division 26: Electrical supply, conduit, and wiring for Mat Hoist.

1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide athletic field equipment manufacturer's product data indicating materials of construction, compliance with specified standards, installation procedures, and necessary safety limitations.
- C. Shop drawings showing layout, elevations, dimensions, fabrication details, method of attachment, and electrical wiring diagrams.
- D. Maintenance Data: Submit manufacturer's recommended maintenance instructions.

1.04 QUALITY ASSURANCE

- A. Source limitation: All components including suspension system, frame assembly, controls for mat lifter, shall be products of a single manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver equipment until building is enclosed and other construction within gymnasium is substantially complete.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Mat Hoist:
 - 1. Draper, Inc; 502061 Double Mat Lifter: www.draperinc.com/#sle.
 - 2. Jaypro Sports, LLC: www.jayprosports.com.
 - 3. Performance Sports Systems: www.perfsports.com/#sle.
 - 4. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 WRESTLING MAT HOIST

- A. Construction:
 - 1. Mat Lifter construction shall consist of a 20 foot I-beam frame, with all drive and lifting mechanism enclosed in a sheet metal housing. Unit shall be a three cable system to assure balanced operation. Cables shall be attached to the I-beam frame and attach to the load bar, which shall be connected to fabric slings. Standard lifter, load bar, and sling shall be capable of supporting two standard 45 x 45 feet wrestling mat (weighing approximately 1 lb. per square foot). Mats may be one piece or in sections placed end-to-end.
 - 2. Each unit shall consist of a highly efficient hollow bored helical gear direct drive (2 inch diameter) solid key shaft to an instantly reversing 1.5 HP motor, operating with 208/230/460 volts in 3-phase, including a 15 lb. fast action brake. Lifting and lowering speed shall be approximately 10 feet per minute. System shall have a custom integrated motion alarm which automatically sounds when system is in motion for safety.
 - 3. Lifting drums shall be 4 inch diameter directly coupled to a **2 inch x 20 feet** solid keyed shaft. Three steel lift cables shall be 5/16 inch x 35 foot 7 x 19 aircraft cable. Cables shall be rated at 1960 lbs. each at a 5-to-1 safety factor. System shall include an emergency lowering manual override brake, in case of power outage.

4. 40 foot Load bar shall be connected to 22 ounce vinyl/polyester super sling able to accommodate up to a 40 inches diameter mat, with heavy duty straps and fasteners. Standard sling color is black; other colors are available by special request. For safety purposes, sling capacity shall govern the lift capacity of the system. Motors, drive assembly, and all control mechanisms shall be encased in a fire proof safety cover. Warranty shall be 5 years.
 5. Movement control shall be prewired with a furnished electrical key switch wired to an intrinsically safe 24 volt power system with automatic off return and raise/lower legend plate.
 6. Wiring and conduit from hoist to key switch and electrical hook-up of unit by others.
- B. Configuration: Double mat - over/under.

2.03 ELECTRICAL:

- A. Electrical Contractor shall provide and install all conduits complete with wire from power source to control enclosure, from control enclosure to unit.

PART 3 EXECUTION

3.01 PREPARATION

- A. Coordinate support of mat lifter with roof or wall structure to ensure proper distribution of loads and adequacy of attachment points. Ensure that building structure has been designed for loads of specific mat lifter to be provided. Provide additional structural framing members as required in accordance with Section 05 12 00 - Structural Steel Framing.
- B. Coordinate configuration, size, and installation of mat lifter with height, slope, and type of building structure and lighting fixtures, mechanical equipment, ductwork, fire-suppression system, bleachers, athletic equipment, and other potential obstructions.
- C. Field verify dimensions prior to fabrication.
- D. Coordinate electrical requirements for motorized operating mechanism to ensure proper power source, conduit, wiring, and boxes for keyed switches. Prior to installation, verify type and location of power supply. See "Electrical Contractor Shall Provide and Install"
- E. Painting: Mat Lifter and parts shall be factory painted neutral gray enamel paint.
- F. For installations made after wood gymnasium flooring is installed, provide protection and exercise care not to damage flooring.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's written instructions and shop drawings.
- B. Install even, plumb and level.
- C. Install control switch such that operator has view of complete mat lifter during lowering and raising.
- D.

3.03 TESTING AND DEMONSTRATION

- A. Operate mat lifter to ensure proper lifting and lowering. Adjust as required to ensure smooth operation and accurate positioning.
- B. Demonstrate to Owner's designated representatives complete operation and required maintenance.

END OF SECTION

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LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD, COUNCIL BLUFFS, IA 51503

SCHEDULE OF DRAWINGS

CODES:

2015 International Building Code
2024 Uniform Plumbing Code
2024 International Mechanical Code
2023 National Electrical Code
2015 International Fire Code
2015 NFPA 101 Life Safety Code
2012 International Energy Conservation Code
2010 ADA Standards for Accessible Design
2018 International Existing Building Code

PROJECT ADDRESS:

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503



VICINITY MAP

NOT TO SCALE

GENERAL

G0-0 COVER SHEET
G0-1 CODE REVIEW PLANS

CIVIL / LANDSCAPE

C0-1 LEGEND
C0-2 ORIGINAL TOPOGRAPHIC SURVEY

C1-1 ZONING COMPLIANCE PLAN

C2-1 REMOVAL PLAN

C3-1 GRADING PLAN

C4-1 UTILITY PLAN
C4-2 UTILITY PLAN & PROFILES

ARCHITECTURAL

A0-0 ARCHITECTURAL NOTES

PLANS

AD1-1 DEMOLITION PLAN

A1-1 FLOOR PLANS
A1-2 ROOF PLAN AND ROOF DETAILS
A1-3 ENLARGED RESTROOM PLANS AND DETAILS
A1-4 VERTICAL CIRCULATION

EXTERIOR ELEVATIONS

A2-1 EXTERIOR ELEVATIONS

BUILDING CROSS SECTIONS

A3-1 BUILDING SECTIONS AND DETAILS
A3-2 BUILDING SECTIONS AND DETAILS

DOORS AND WINDOWS

A4-1 DOORS AND WINDOWS - ELEVATIONS, SCHEDULES, DOOR AND FRAME DETAILS

REFLECTED CEILING PLANS

A5-1 REFLECTED CEILING PLANS

INTERIOR FINISHES

A6-1 ROOM FINISH SCHEDULE & INTERIOR FINISH PLANS

STRUCTURAL

S1-1 STRUCTURAL NOTES & DESIGN DATA
S1-2 STRUCTURAL SCHEDULES

S2-1 FOUNDATION PLAN
S2-2 UPPER LEVEL FRAMING PLAN & DETAILS
S2-3 HIGH UPPER LEVEL FRAMING PLAN & DETAILS
S3-1 STRUCTURAL DETAILS

MECHANICAL / PLUMBING

M0-0 MECHANICAL COVER SHEET

MD1-1 FLOOR PLAN - MECHANICAL DEMOLITION

F1-1 FLOOR PLAN - FIRE SUPPRESSION

M1-1 FLOOR PLAN - HVAC
M1-2 ROOF PLAN - MECHANICAL

M2-1 FLOOR PLAN - PLUMBING

M3-1 MECHANICAL DETAILS
M3-2 MECHANICAL DETAILS

M4-1 MECHANICAL SCHEDULES
M4-2 MECHANICAL SCHEDULES

M5-1 TEMPERATURE CONTROL DIAGRAMS

ELECTRICAL

E0-0 ELECTRICAL COVER SHEET

E0-1 ELECTRICAL SITE PLAN

ED1-0 FLOOR PLAN - ELECTRICAL DEMOLITION

E1-0 FLOOR PLAN - LIGHTING
E1-1 UPPER LEVEL - LIGHTING

E2-0 FLOOR PLAN - POWER
E2-1 ROOF PLAN / UPPER LEVEL - POWER

E3-0 ELECTRICAL DETAILS

E4-0 ELECTRICAL SCHEDULES



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GREGORY S. STIEREN
07744
IOWA

I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY REGISTERED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

SIGN & DATE: *[Signature]* 2/23/2026

PRINTED NAME: GREGORY S. STIEREN

LICENSE NUMBER: 07744

MY LICENSE RENEWAL DATE IS JUNE 30, 2027

PAGES/ SHEETS/ DIVISIONS COVERED BY THIS SEAL:

G0-0, G0-1, A0-0, AD1-1, A1-1, A1-2, A1-3, A1-4, A2-1, A3-1, A3-2, A4-1, A5-1, A6-1

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JAMES F. LANGE
20084
IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

[Signature] 2/23/2026

JAMES F. LANGE, SE

LICENSE NUMBER: 20084
LICENSE RENEWAL DATE: DECEMBER 31, 2027

PAGES OR SHEETS COVERED BY THIS SEAL:
S1-1, S1-2, S2-4, S2-2, S2-3, S3-1

CALEB M. SNYDER
27830
IOWA

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

[Signature] 2/23/2026

SIGNATURE: Caleb M. Snyder

PRINTED OF TYPED NAME

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2026

PAGES OR SHEETS COVERED BY THIS SEAL: C0-1, C1-1, C2-1, C3-1, C4-1, C4-2

JASON R. EICKMEIER
P28774
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

[Signature] 02/23/2026
(date)

My license renewal date is 12/31/2027

Pages or sheets covered by this seal:
Sheets M0-M5, MD1, and F1

STEPHEN M. FARRINGTON
20916
IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

[Signature] 02/23/2026
(date)

My license renewal date is 12/31/2027

Pages or sheets covered by this seal:
Sheets E0-E4 and ED1

#	Description	Date
2	ADDENDUM No. 2	03/16/2023
1	ADDENDUM No. 1	03/10/2026

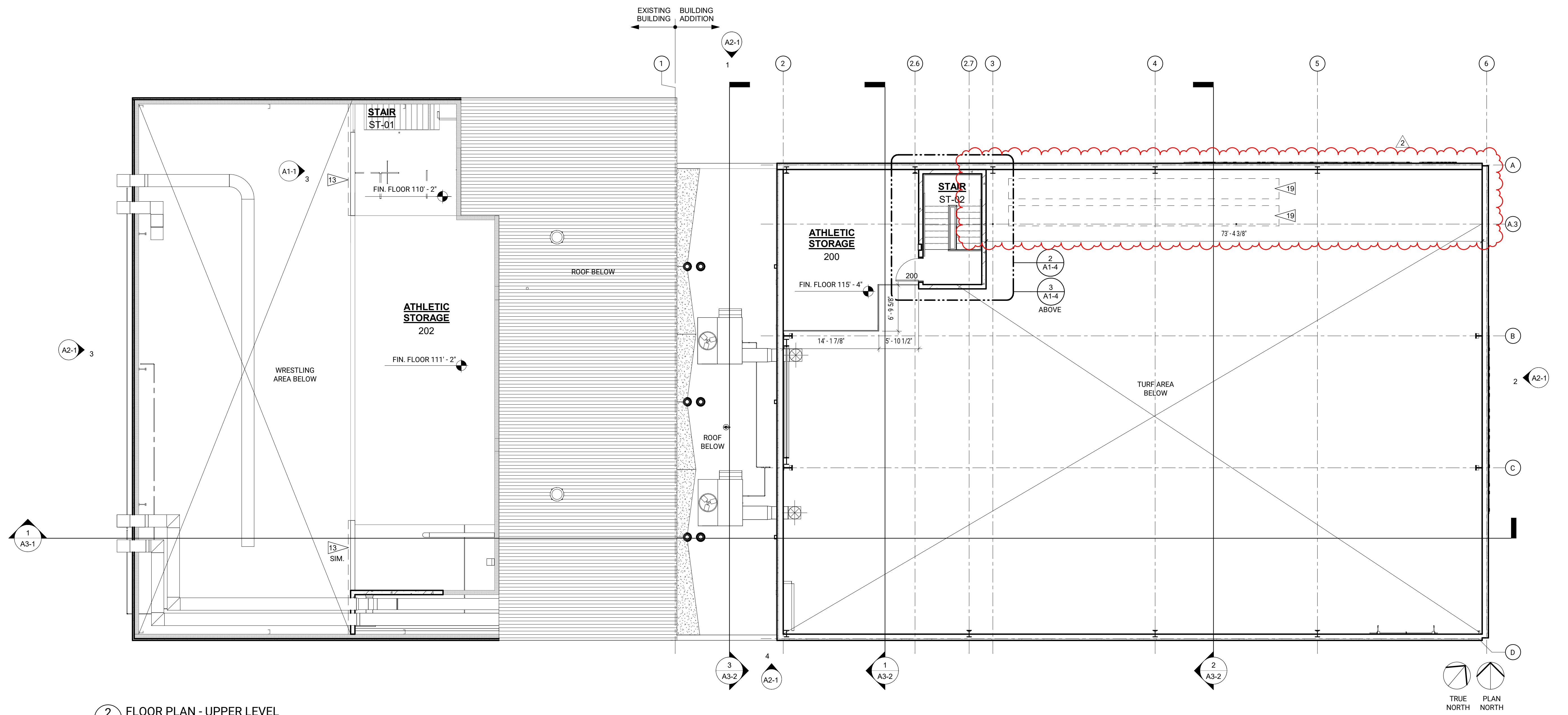
LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD, COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

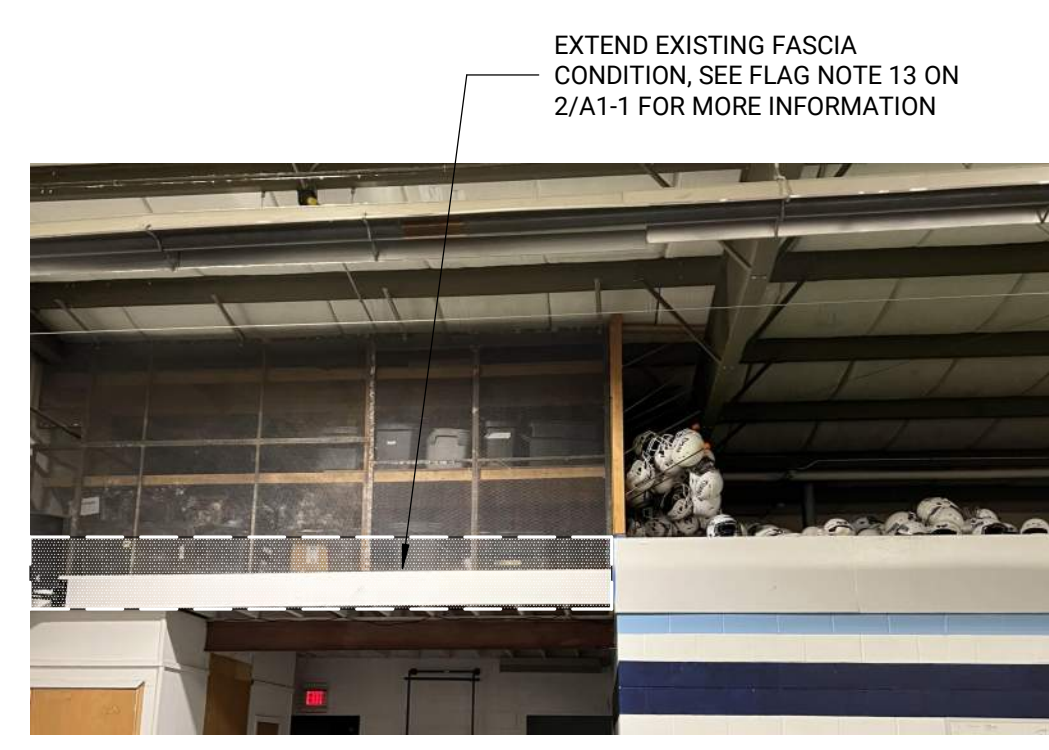
COVER SHEET

GO-0

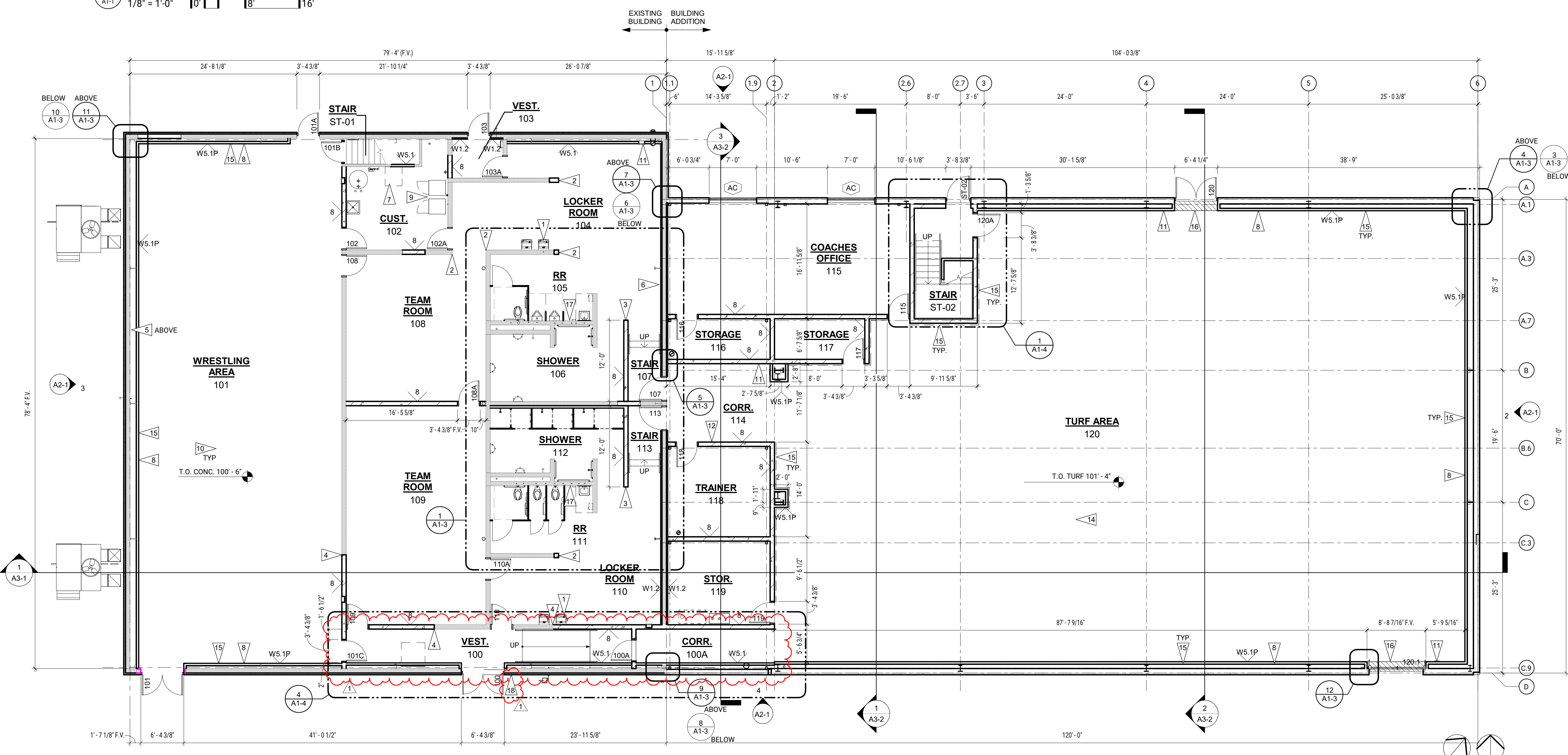


2 FLOOR PLAN - UPPER LEVEL
1/8" = 1'-0" 0' 8' 16'

3 PLYWOOD EXTENSION AT TOP OF CMU WALL
1/8" = 1'-0" 0' 8' 16'



EXTEND EXISTING FASCIA CONDITION, SEE FLAG NOTE 13 ON 2/A1-1 FOR MORE INFORMATION



1 FLOOR PLAN - MAIN LEVEL
1/8" = 1'-0" 0' 8' 16'

- FLOOR PLAN GENERAL NOTES
- ALL GWB WALLS ARE TYPE WS.2A UNLESS NOTED OTHERWISE.
 - ALL INTERIOR CMU WALLS ARE TYPE 8 UNLESS NOTED OTHERWISE.
 - SEE DETAIL 3/A00 FOR TYPICAL GWB CONTROL JOINT LOCATIONS AT INTERIOR WALLS. SEE THE REFLECTED CEILING PLAN FOR ADDITIONAL CONTROL JOINT LOCATIONS.
 - SEE BUILDING ELEVATIONS FOR MASONRY CONTROL JOINT LOCATIONS. SEE THE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.

- ARCHITECTURAL FLAG NOTES
- FLAG NOTES APPLY TO SHEET A1-1.
- NEW DRINKING FOUNTAIN. SEE MECH FOR ADDITIONAL INFORMATION.
 - PROVIDE CMU TO MATCH THICKNESS OF EXISTING CMU AT END OF WALL. CMU AT WALL END CAP TO BE BULLNOSE CMU AND STACKED (NOT TOOTHED-IN).
 - BULLNOSE CMU.
 - ALIGN NEW CMU WALL WITH FACE OF EXISTING CMU.
 - EXISTING METAL BUILDING CROSS BRACING ABOVE TO REMAIN.
 - EXISTING METAL BUILDING CROSS BRACING. SEE STRUCTURAL DRAWINGS FOR RELOCATION OF CROSS BRACING.
 - ICE MACHINE. OWNER PROVIDED, CONTRACTOR INSTALLED.
 - FIELD VERIFY WALL LOCATION. LOCATE THE WALL BASED ON HEIGHT OF WALL WHEN IT INTERSECTS THE PEMB STEEL COLUMN. SEE BUILDING SECTIONS FOR FURTHER INFORMATION.
 - OWNER PROVIDED WASHER / DRYER. SEE MECHANICAL DRAWINGS FOR DRYER VENTING.
 - NEW 6" CONCRETE SLAB ON TOP OF EXISTING CONCRETE SLAB IN EXISTING BUILDING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - FEC LOCATION.
 - AED LOCATION.
 - PLYWOOD PAINTED P-1 TO MATCH CMU BELOW. MATCH HEIGHT AND ALIGN WITH EXISTING CONDITION. SEE DETAIL 3/A1-1 FOR ADDITIONAL INFO.
 - RECESS CONCRETE SLAB 1 1/2" FOR SYNTHETIC TURF IN TURF AREA 120. TOP OF CONCRETE TO BE 101'-3 1/2". TOP OF SYNTHETIC TURF TO BE 101'-4". SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - WALL PADDING BY OWNER.
 - TOP OF CONCRETE AT 101'-4" AT THIS LOCATION. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - PATCH CMU WALL AS REQUIRED FOR INSTALLATION OF NEW PLUMBING FIXTURES AND NEW FINISHES AT REMOVAL OF EXISTING PLUMBING FIXTURES.
 - ADA DOOR OPERATOR.
 - WRESTLING MAT STORAGE. SEE SPECIFICATION SECTION 11 66 23.56.

#	Description	Date
2	ADDENDUM No. 2	03/16/2023
1	ADDENDUM No. 1	03/10/2026

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV
3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FLOOR PLANS

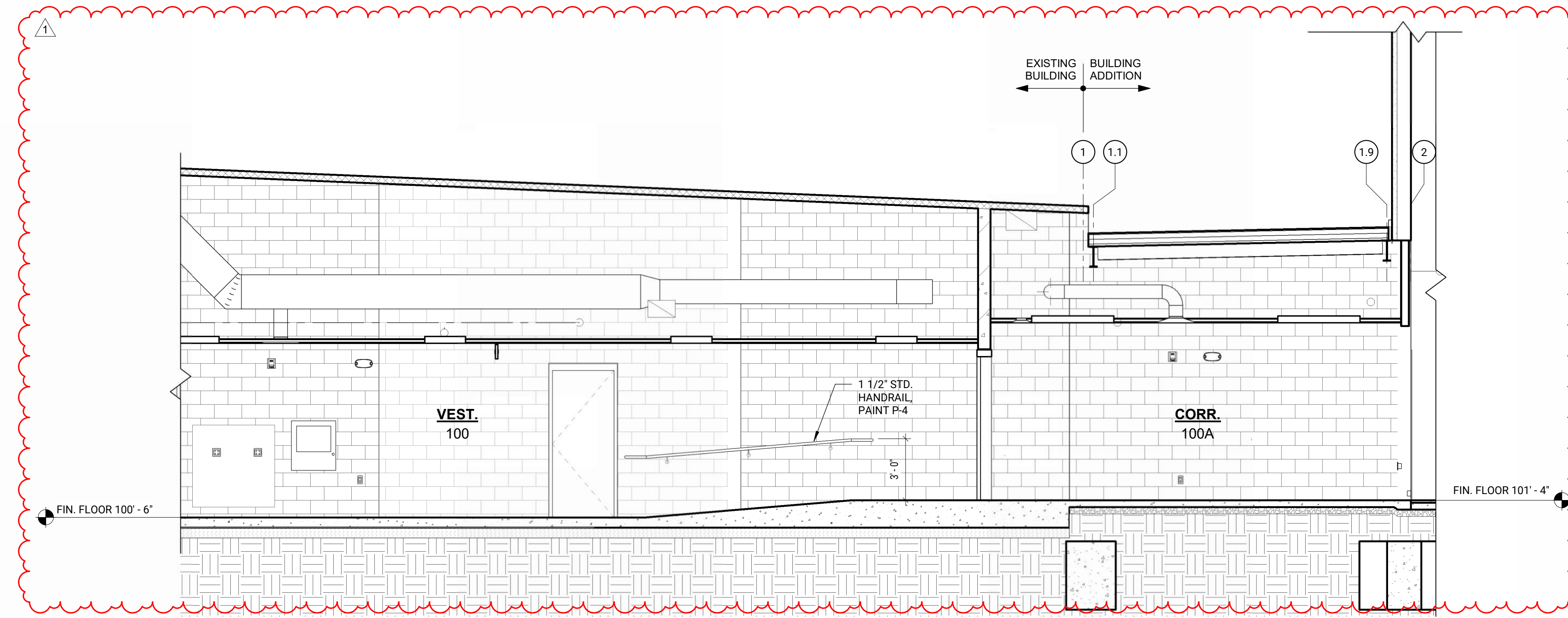
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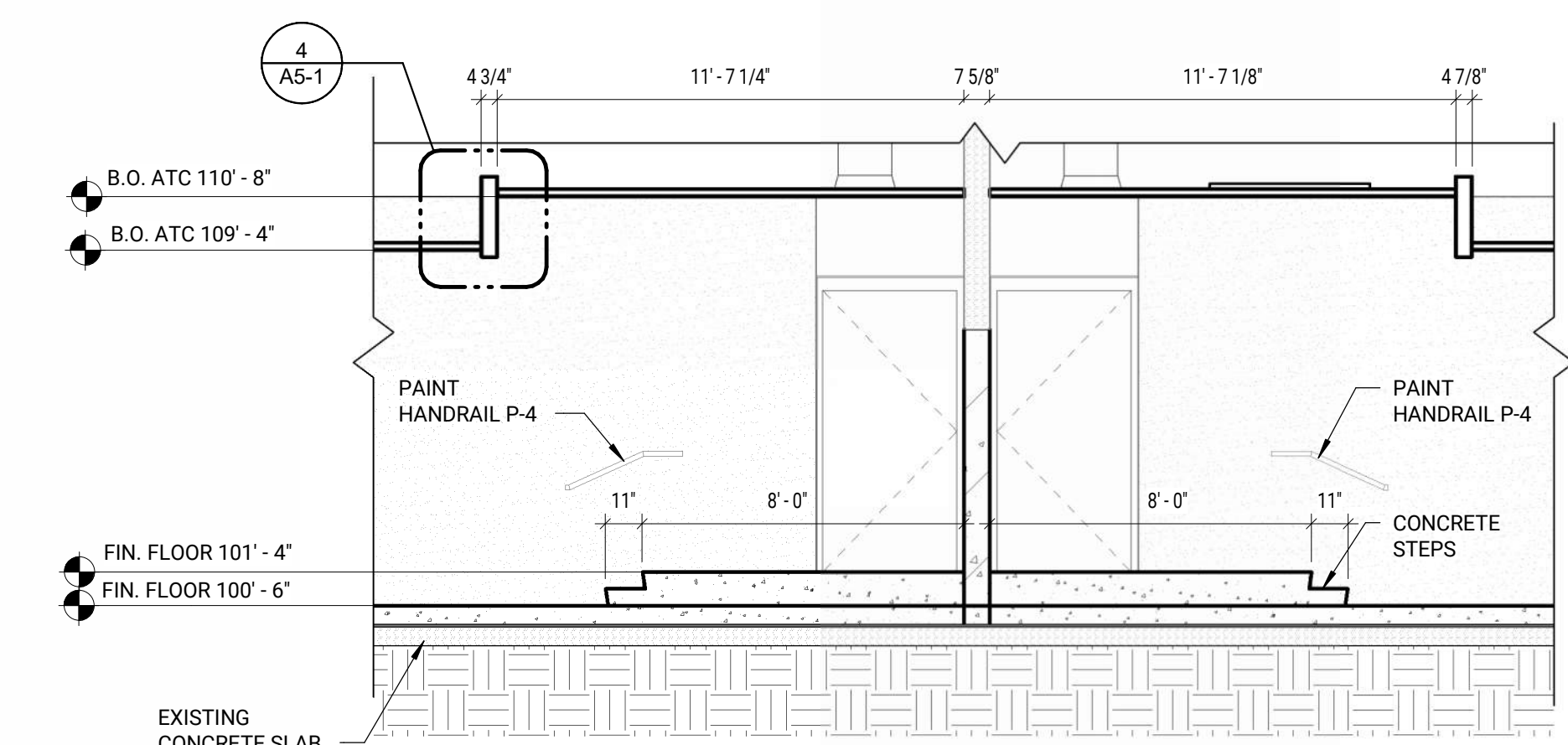
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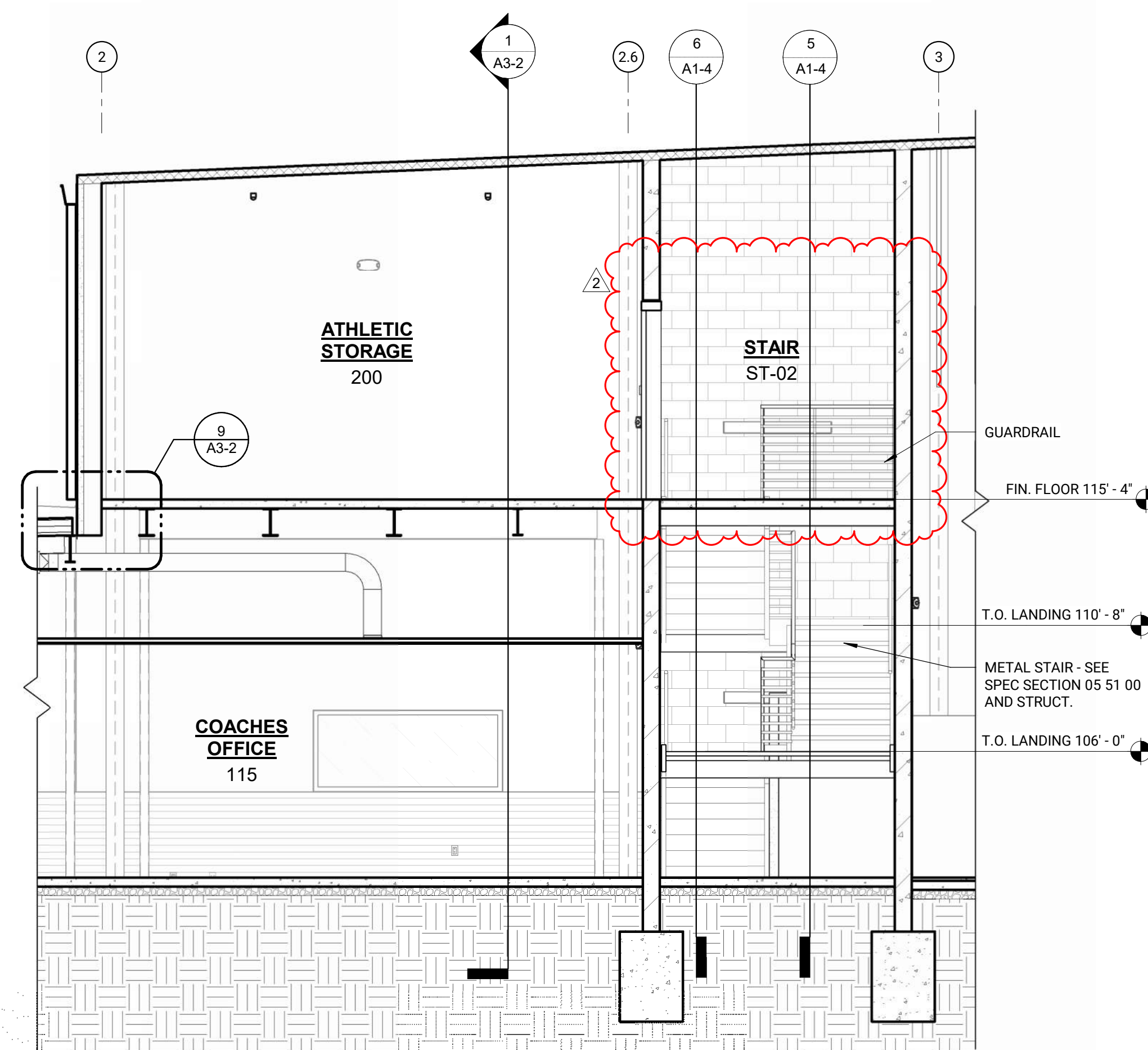
MECHANICAL + ELECTRICAL ENGINEER
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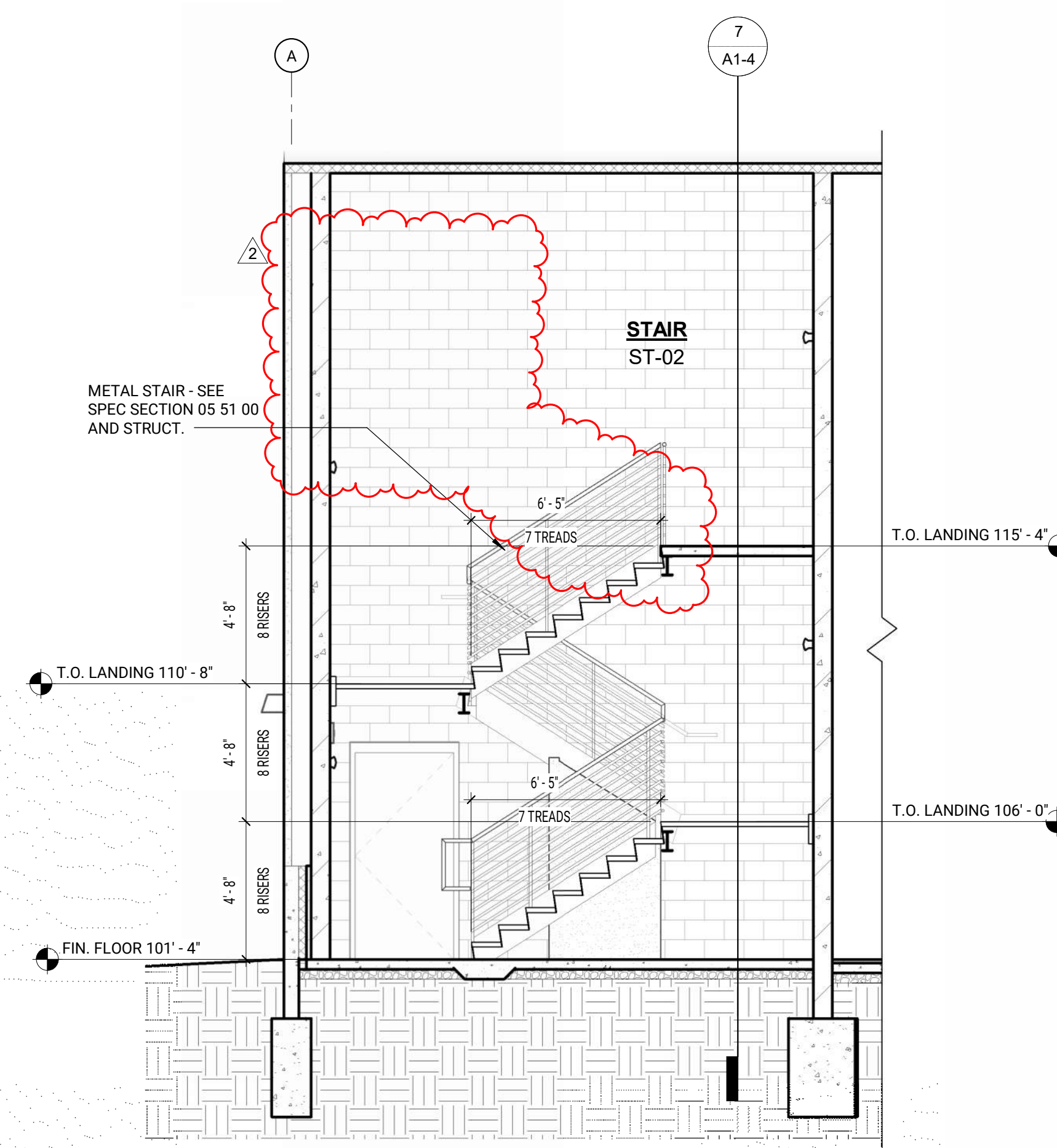
9 SECTION AT RAMP - LOOKING NORTH
A1-4 1/4" = 1'-0" 0' 1' 4' 8'



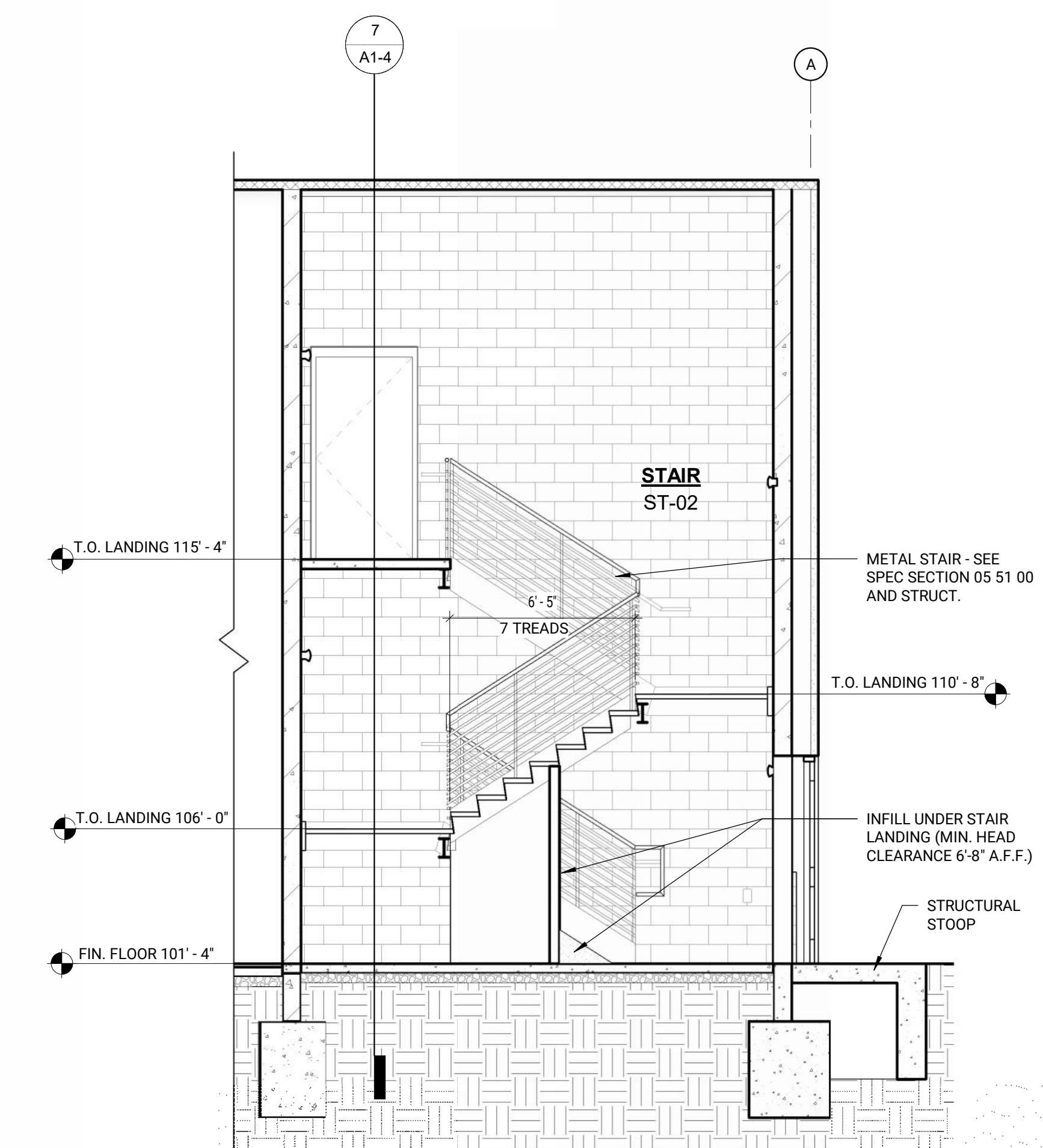
8 STAIR SECTION AT LOCKER ROOMS
A1-4 1/4" = 1'-0" 0' 1' 4' 8'



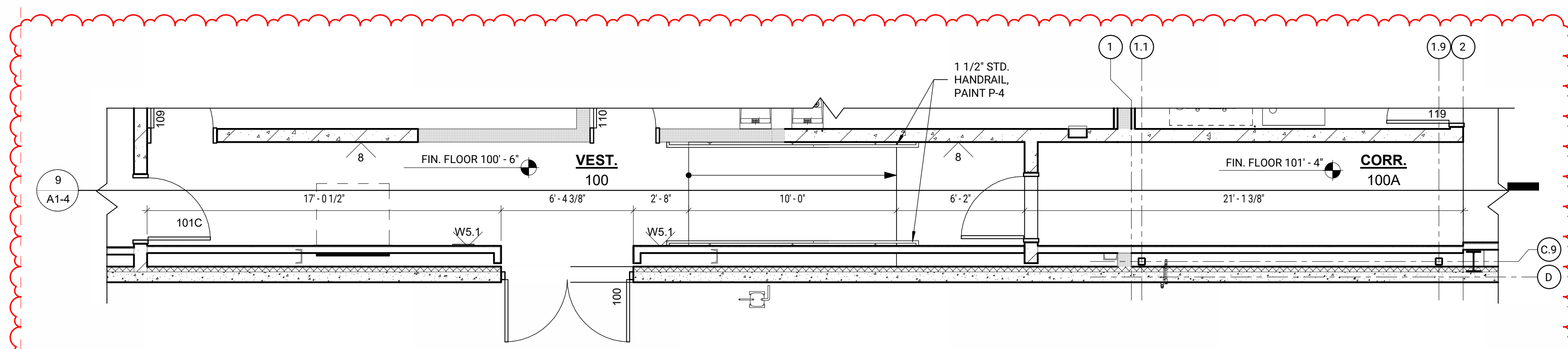
7 SECTION - STAIR ST-02 LOOKING NORTH
A1-4 1/4" = 1'-0" 0' 1' 4' 8'



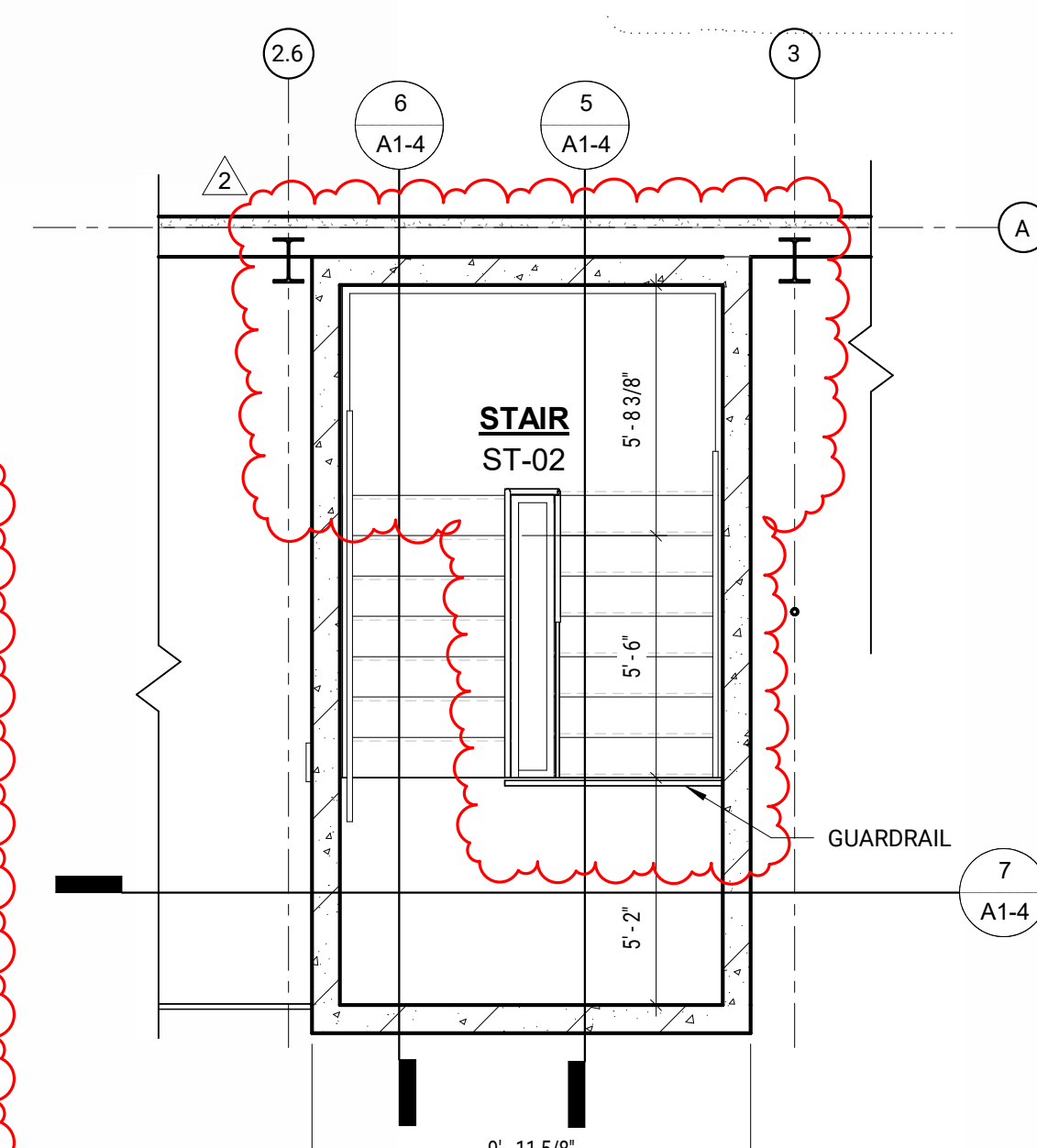
6 SECTION - STAIR ST-02 LOOKING EAST
A1-4 1/4" = 1'-0" 0' 1' 4' 8'



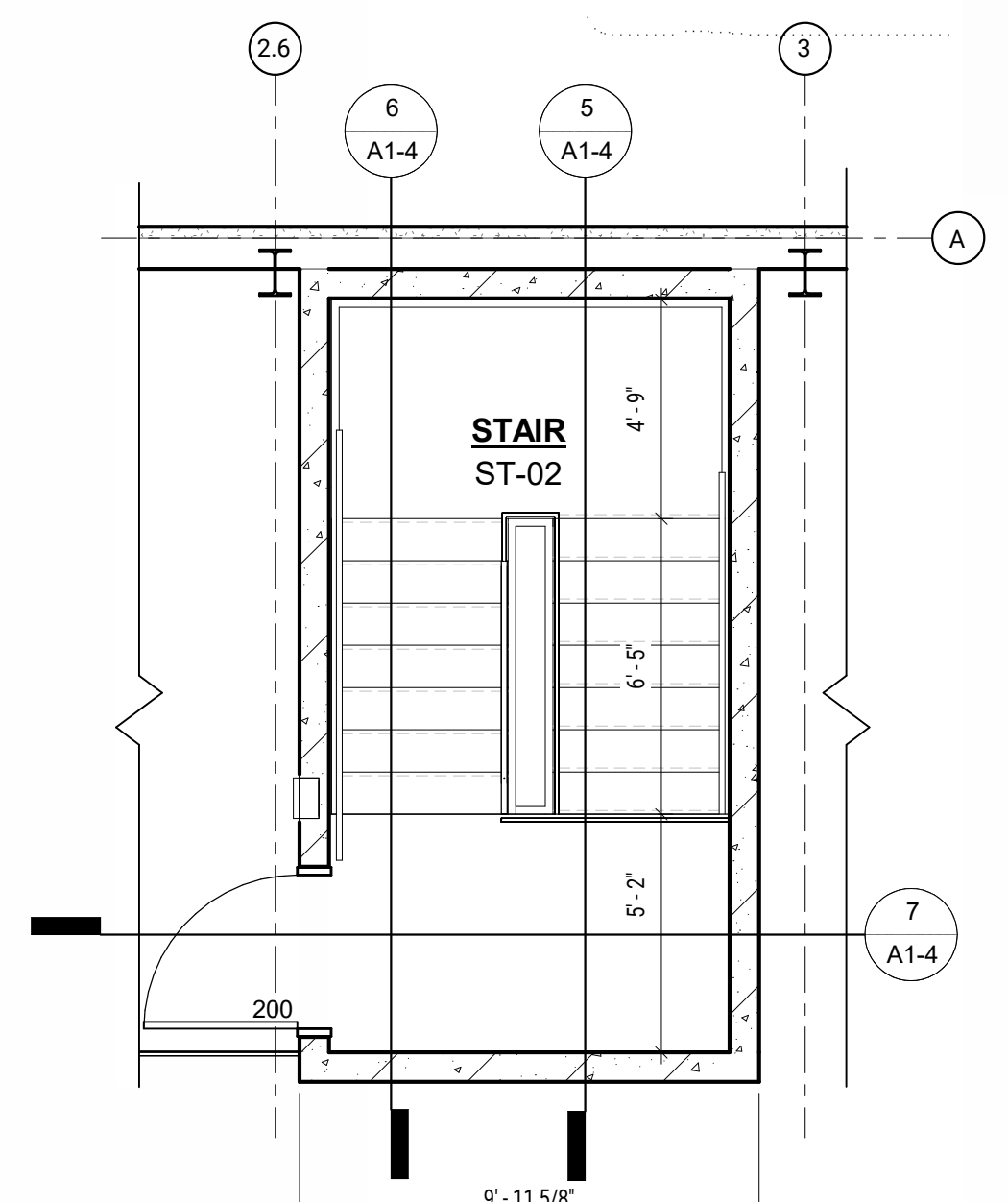
5 SECTION - STAIR ST-02 LOOKING WEST
A1-4 1/4" = 1'-0" 0' 1' 4' 8'



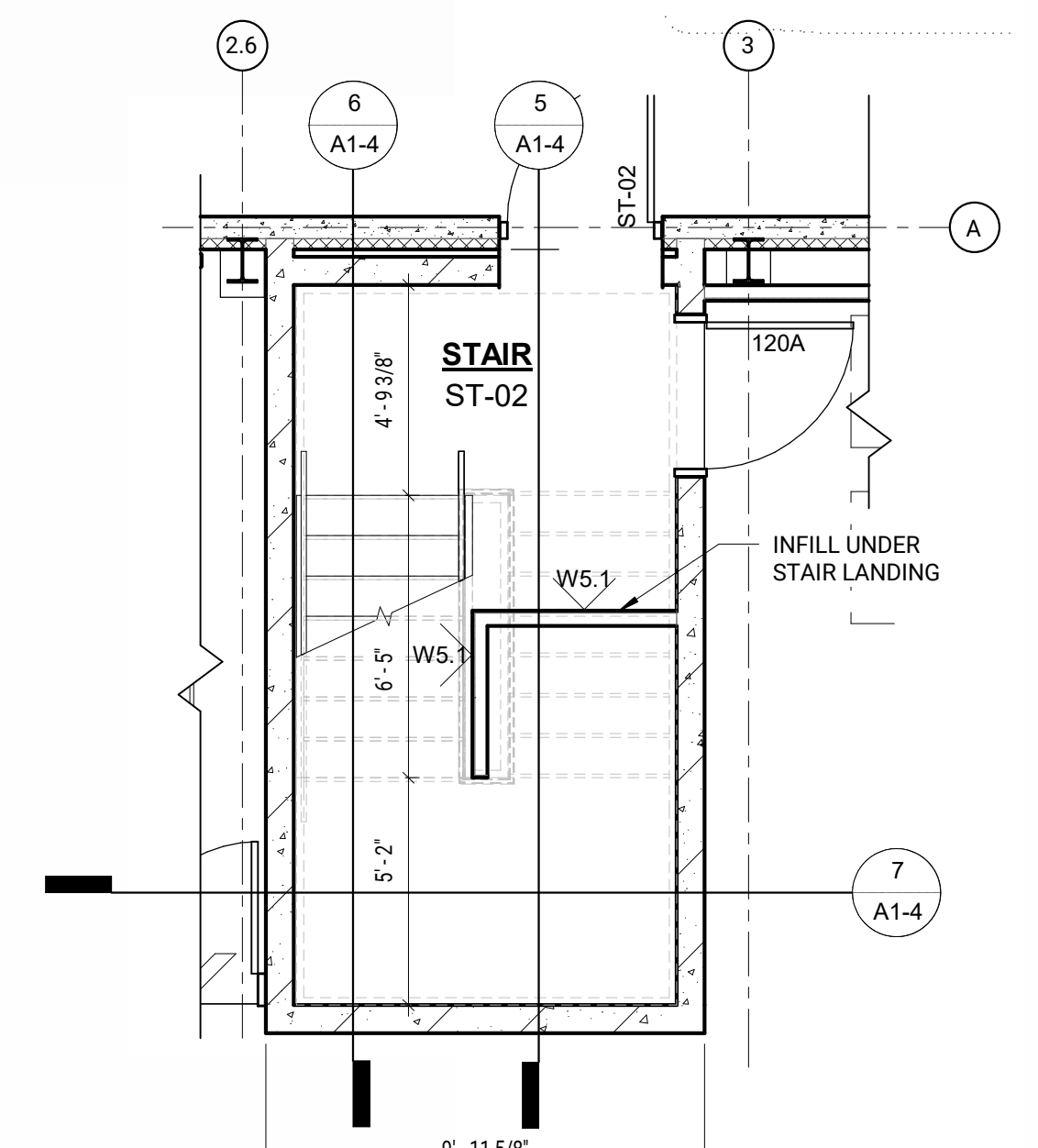
4 ENLARGED PLAN - CORRIDOR 100 RAMP
A1-4 1/4" = 1'-0" 0' 1' 4' 8'



3 ENLARGED PLAN - STAIR ST-02 - HIGHEST LEVEL
A1-4 1/4" = 1'-0" 0' 1' 4' 8'



2 ENLARGED PLAN - STAIR ST-02 - UPPER LEVEL
A1-4 1/4" = 1'-0" 0' 1' 4' 8'



1 ENLARGED PLAN - STAIR ST-02 - MAIN LEVEL
A1-4 1/4" = 1'-0" 0' 1' 4' 8'

#	Description	Date
2	ADDENDUM No. 2	03/16/2023
1	ADDENDUM No. 1	03/10/2026

**LEWIS
CENTRAL
MIDDLE
ATHLETIC
BUILDING
ADD/RENOV**

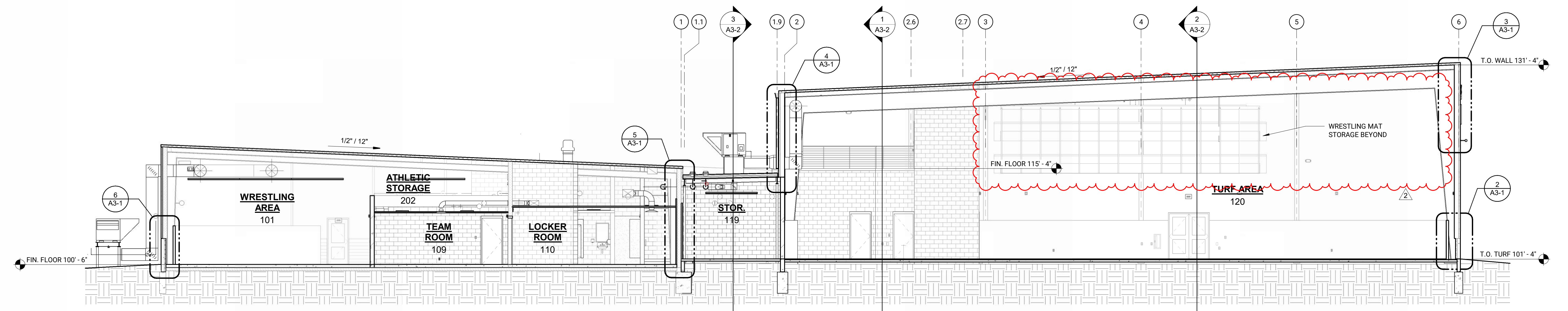
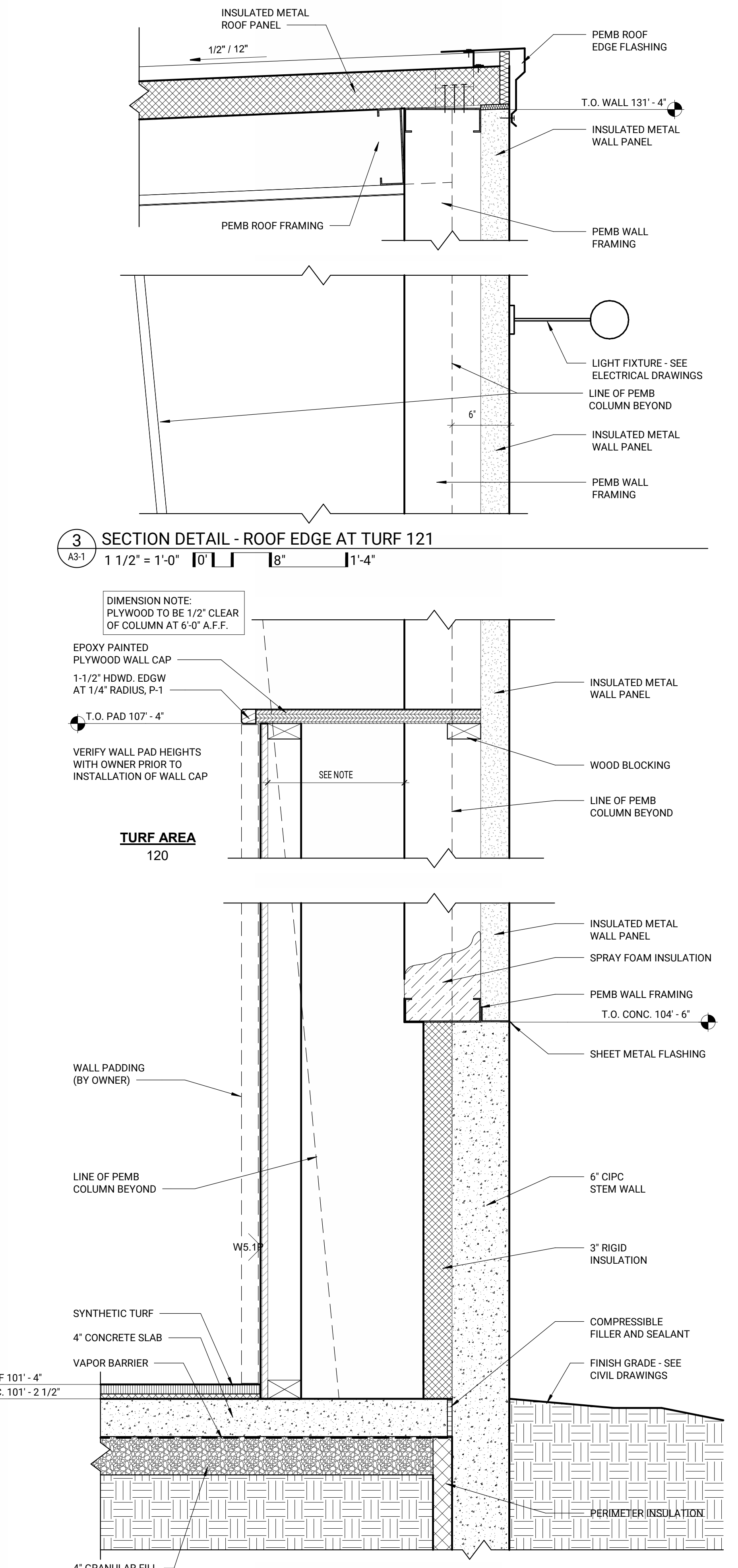
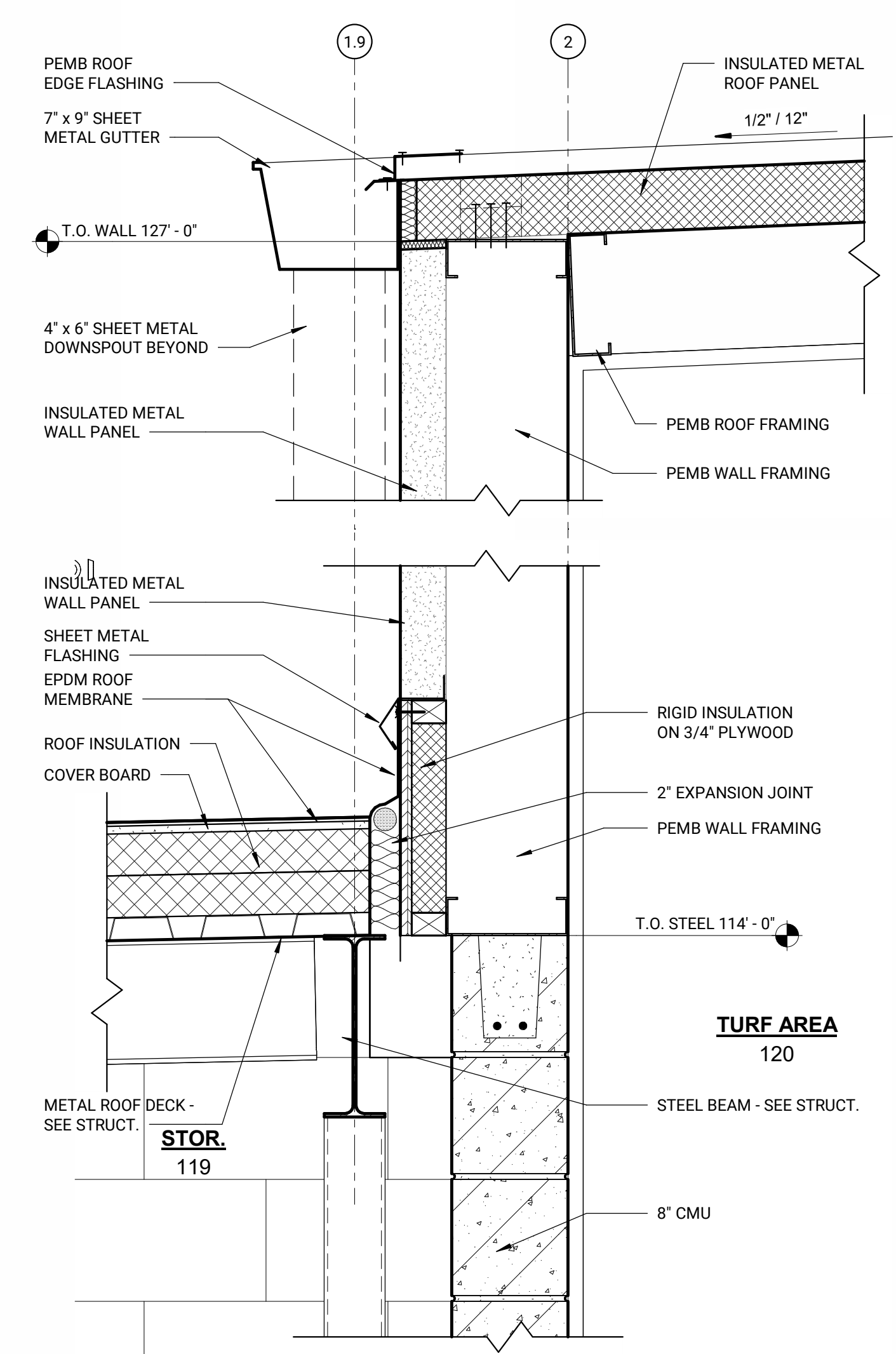
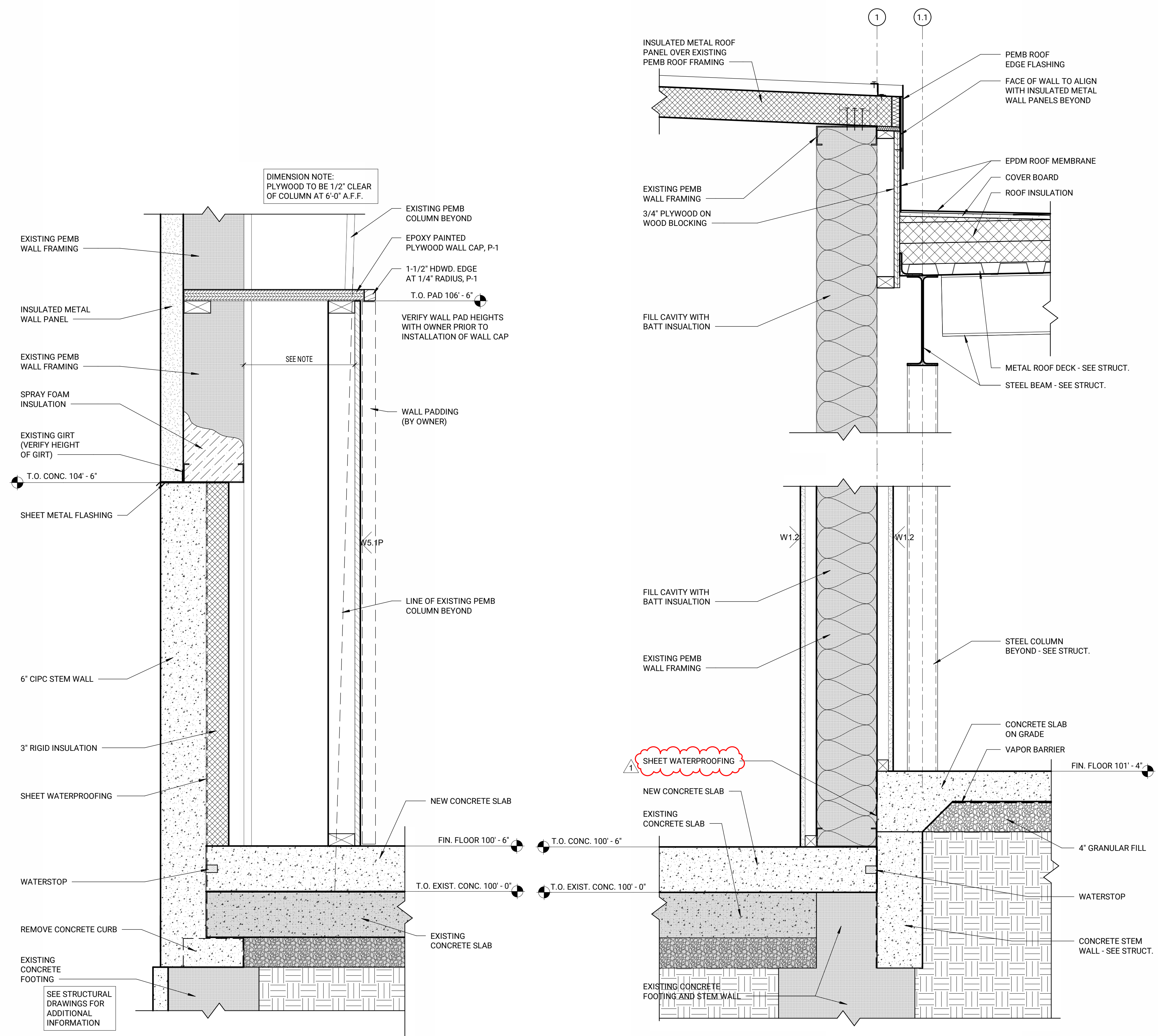
3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

**LEWIS CENTRAL
COMMUNITY SCHOOL
DISTRICT**

**VERTICAL
CIRCULATION**

A1-4

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026



#	Description	Date
2	ADDENDUM No. 2	03/16/2023
1	ADDENDUM No. 1	03/10/2026

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
 COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

BUILDING SECTIONS AND DETAILS

DOOR, FRAME, AND GLAZING GENERAL NOTES

- SEE DETAIL 3/A4-1 TYPICAL METAL FRAME DIMENSIONS AND PROFILES. WHEN HOLLOW METAL FRAMES WRAP GWB WALLS, THE THROAT DEPTH SHALL EQUAL THE THICKNESS OF THE DESIGNATED WALL TYPE SHOWN ON THE ARCHITECTURAL FLOOR PLAN AND WHEN HOLLOW METAL FRAMES WRAP CMU WALLS, THE THROAT DEPTH SHALL EXCEED THE THICKNESS OF THE WALL BY 1/8" WITH THE GAP CAULKED AND PAINTED TO MATCH THE WALL.
- ALL DOORS SHALL BE 1-3/4" THICK, U.N.O.
- ALL EXTERIOR FRAMES (SHOWN ON FRAME ELEVATIONS) ARE VIEWED FROM THE EXTERIOR UNLESS INDICATED OTHERWISE.
- SEE DOOR AND FRAME SCHEDULE FOR ACTUAL DOOR SIZES. COORDINATE FRAME DIMENSIONS WITH DOOR SIZES.
- SEE SHEET A4-1 FOR DETAILS LISTED IN SCHEDULE, U.N.O.
- COORDINATE LUNETS AT DOOR HEADS WITH STRUCTURAL WHERE REQ'D.
- SEE SPECIFICATION SECTION 08 80 00 FOR DESCRIPTION OF GLASS TYPES SHOWN ON DOOR AND FRAME SCHEDULE (I.E. 'CTIG').
- VERIFY ALL HARDWARE SIZES, CLEARANCES, POCKET DEPTHS, ECT. WITH HARDWARE SUPPLIER AND ADJUST ACCORDINGLY.
- G.C. TO FIELD VERIFY EXISTING WALL THICKNESSES AND WALL OPENINGS PRIOR TO SUBMITTING SHOP DRAWINGS. ADJUST DOOR/ FRAME SIZES AS REQ'D TO FIT W/ EXISTING FIELD VERIFIED CONDITIONS.
- CAULK ALL JOINTS BETWEEN INTERSECTING FRAME MEMBERS THAT ARE NOT WELDED, WITH A PAINTABLE CAULK TO PROVIDE A SMOOTH AND UNIFORM APPEARANCE WHEN PAINTED.
- THE PERIMETER OF ALL FRAMES SHALL BE CAULKED AT BOTH THE EXTERIOR AND INTERIOR.
- SET ALL EXTERIOR FRAMES AND THRESHOLDS IN A CONTINUOUS BEAD OF CAULK AT SILLS.
- PROVIDE AND INSTALL THRU-WALL FLASHING AND WEEP HOLES ABOVE ALL EXTERIOR FRAME OPENINGS.

DOOR, FRAME AND GLAZING LEGEND

ALUM	ALUMINUM
CTIG	CLEAR TEMPERED INSULATED GLASS
HM	HOLLOW METAL
IMPF	INSULATED METAL INFILL PANEL
MIN	MINUTE
P	PAINT
PF	PRE-FINISHED
PR	PAIR
SIM	SIMILAR
ST	STAIN
U.N.O.	UNLESS NOTED OTHERWISE
WD	WOOD

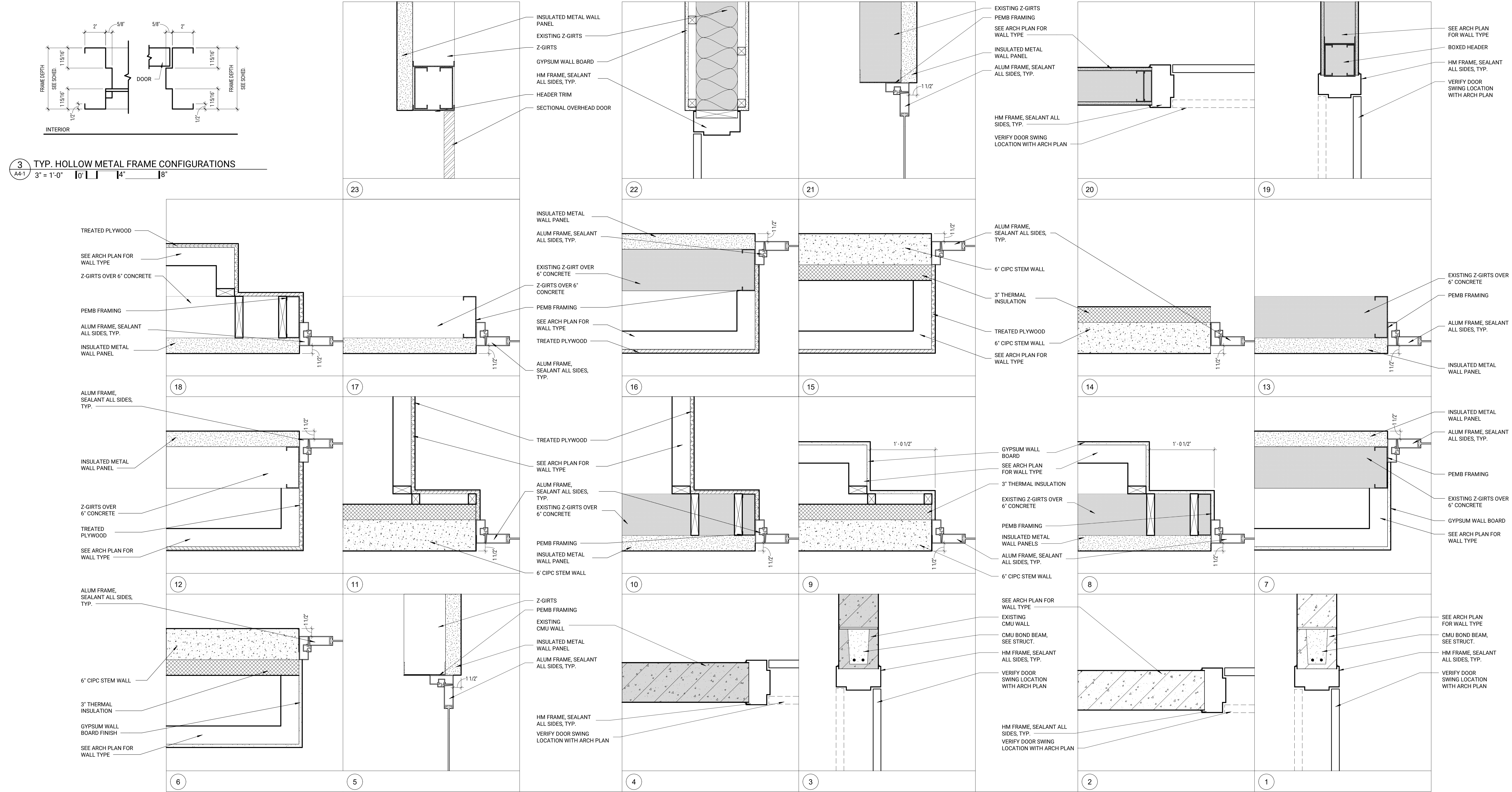
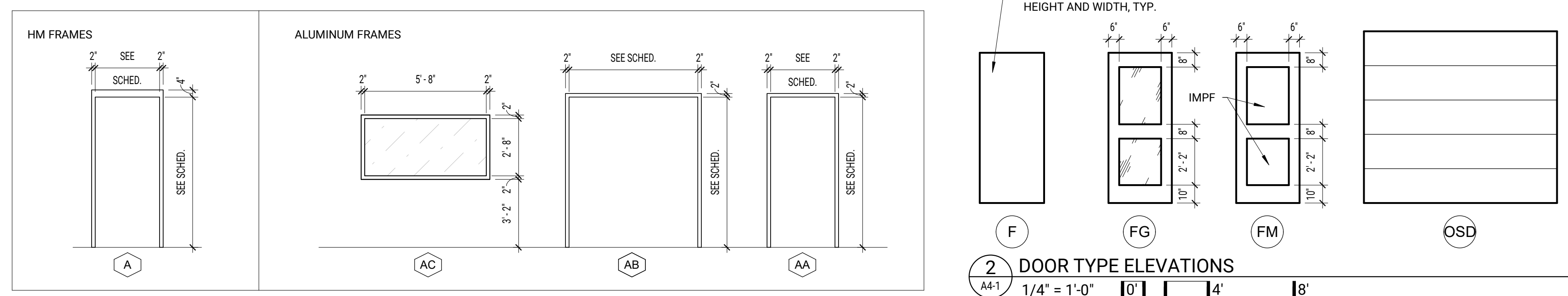
DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR					FRAME							HDWR. TYPE	LABEL	GLAZING	REMARKS	DOOR NO.
	WIDTH	HEIGHT	TYPE	MAT.	FINISH	TYPE	DEPTH	MAT.	FINISH	HEAD	JAMB						
100	PR	3'-0"	7'-0"	FG	ALUM	PF	AB	4 1/2"	ALUM	PF	21	6, 7	1				100
100A		3'-0"	7'-0"	F	HM		A	8 3/4"	HM	P-2	1	2	8	60 MIN.			100A
101	PR	3'-0"	7'-0"	FM	ALUM	PF	AB	4 1/2"	ALUM	PF	21	10, 11, 15, 16	3				101
101A		3'-0"	7'-0"	FM	ALUM	PF	AA	4 1/2"	ALUM	PF	5	13, 14, 18 SIM	4				101A
101B		3'-0"	7'-0"	F	HM	P-2	A	5 1/4"	HM	P-2	19	20	9				101B
101C		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	8	60 MIN.			101C
102		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	10				102
102A		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	3	4	11				102A
103		3'-0"	7'-0"	FM	ALUM	PF	AA	4 1/2"	ALUM	PF	21	13 SIM, 14 SIM	5				103
103A		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	3	4	12				103A
107		3'-4"	7'-0"	F	HM	P-2	A	9 1/8"	HM	P-2	22	5/A1-3	13				107
108		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	3	4	14				108
108A		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	1	3	15				108A
109		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	16	60 MIN.			109
110		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	3	4	16	60 MIN.			110
110A		3'-0"	7'-2"	F	HM	P-2	A	8 3/4"	HM	P-2	3	4	15				110A
113		3'-4"	7'-0"	F	HM	P-2	A	9 1/8"	HM	P-2	22	5/A1-3	13				113
115		3'-0"	7'-0"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	17				115
116		3'-0"	7'-0"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	18				116
117		3'-0"	7'-0"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	19				117
118		3'-0"	7'-0"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	20				118
119		3'-0"	7'-0"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	21				119
120	PR	3'-0"	7'-0"	FM	ALUM	PF	AB	4 1/2"	ALUM	PF	5	12, 15	6				120
120.1		8'-0"	8'-0"	OSD	STL	OSD	0"	STL	PF	23	12/A1-3						120.1
120A		3'-4"	7'-0"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	22	60 MIN.			120A
200		3'-4"	7'-0"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	23	60 MIN.			200
ST-02		3'-4"	7'-0"	FM	ALUM	PF	AA	4 1/2"	ALUM	PF	5 SIM	14 SIM, 17 SIM	7				ST-02

DELETE DOOR 100B FROM THE DOOR AND FRAME SCHEDULE 1

DELETE DOOR 201 FROM THE DOOR AND FRAME SCHEDULE 2

WINDOW SCHEDULE										
TYPE	MATERIAL	FINISH	FRAME DEPTH	HEAD	JAMB	SILL	GLAZING	LABEL	REMARKS	
AC	ALUM	PF	0'-4 1/2"					CTIG		



1 DOOR AND FRAME DETAILS
1/2" = 1'-0" 0' 1" 14' 8"

BCDM architects

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2	ADDENDUM No. 2	03/16/2023
1	ADDENDUM No. 1	03/10/2026

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

DOORS AND WINDOWS - ELEVATION, SCHEDULES, DOOR AND FRAME DETAILS

A4-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026

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#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
 COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

REFLECTED CEILING PLANS

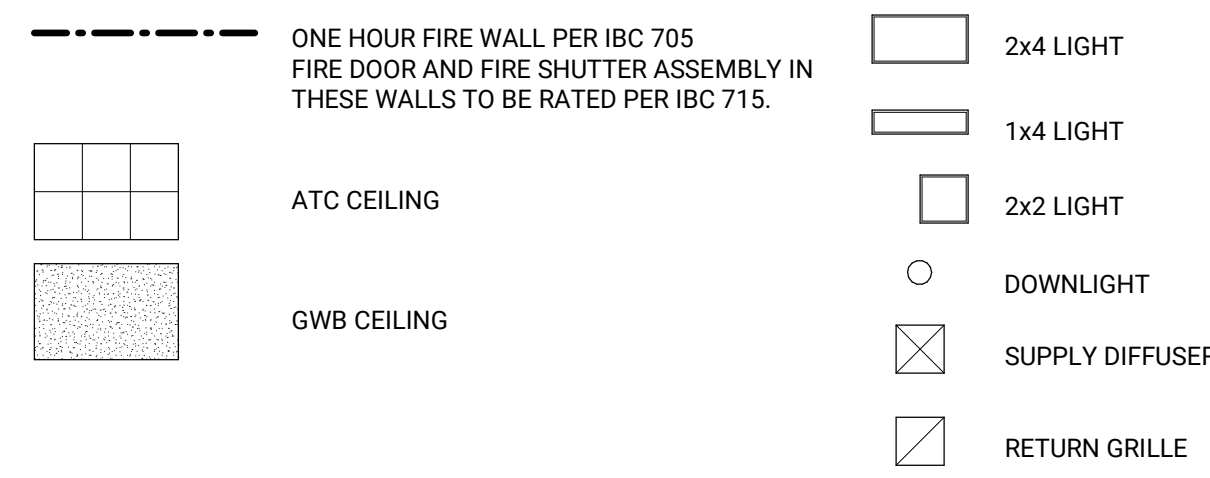
A5-1

CONSTRUCTION DOCUMENTS
 BCDM NO. 5551-05
 02/23/2026

REFLECTED CEILING PLAN GENERAL NOTES

1. WALLS THAT ARE INDICATED TO BE RATED SHALL EXTEND TO THE BOTTOM OF THE STRUCTURAL DECK. SEAL AT THE TOP OF SUCH WALLS ARE AT PENETRATIONS THROUGH SUCH WALLS WITH FIRE SEALANT AND FIRE SAFING INSULATION.
2. ALL WALLS EXTEND TO STRUCTURAL DECK UNLESS NOTED OTHERWISE.
3. CENTER GRID IN ROOMS UNLESS NOTED OTHERWISE.
4. ALL RECESSED ELECTRICAL FIXTURES, MESH, GRILLES, DIFFUSERS, ECT. SHALL BE CENTERED IN CEILING GRID UNLESS NOTED OTHERWISE.

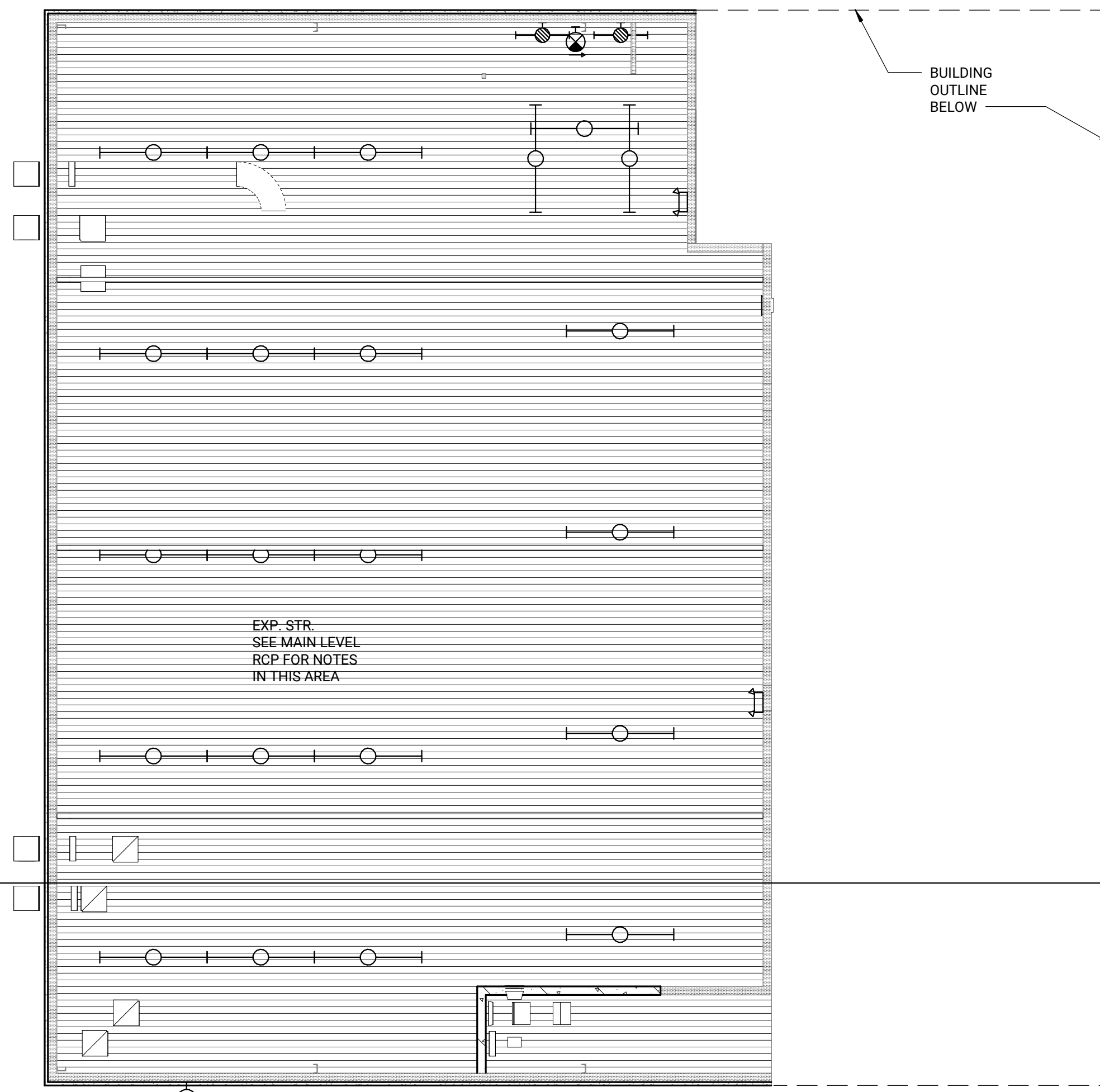
REFLECTED CEILING PLAN LEGEND:



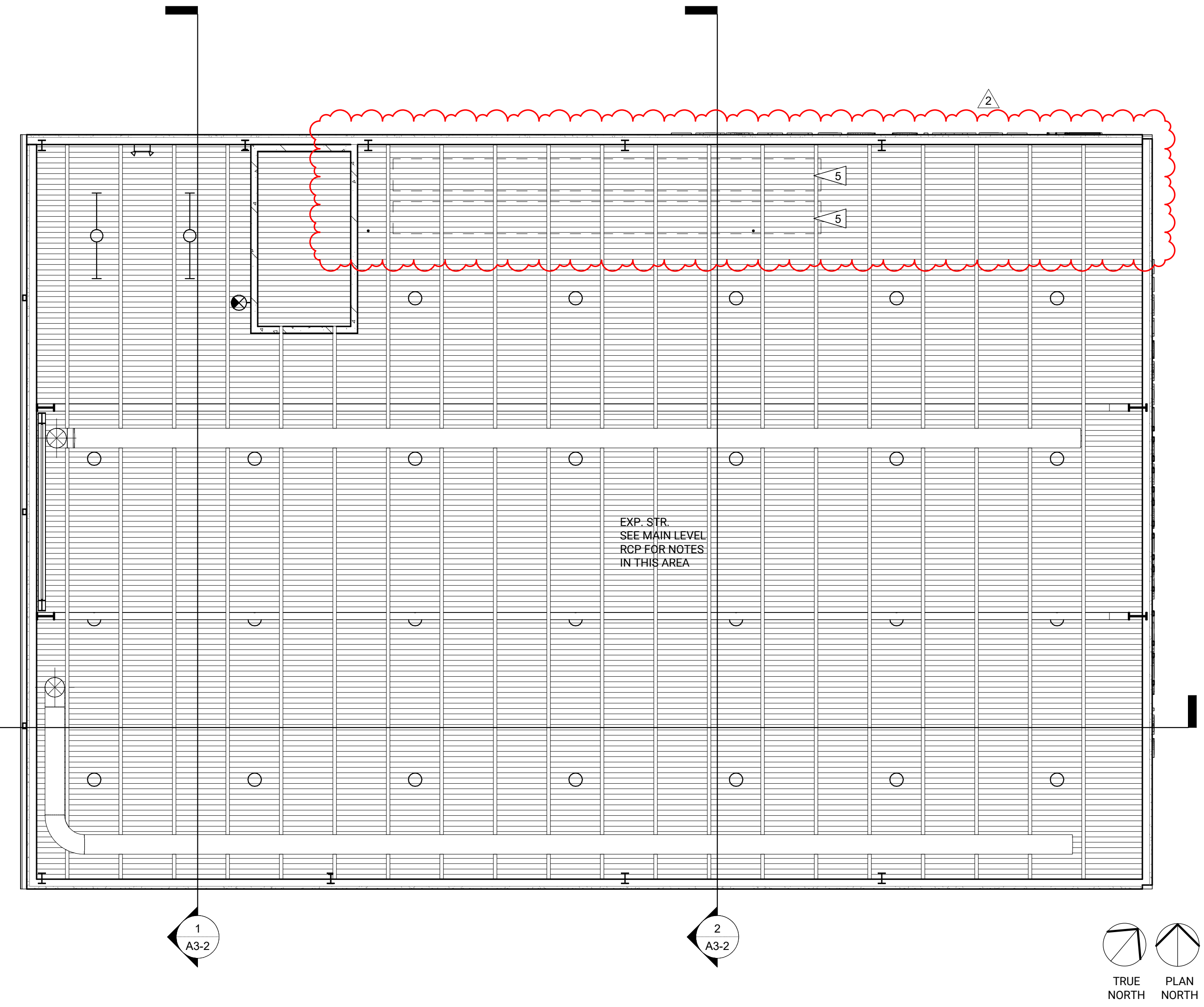
REFLECTED CEILING PLAN FLAG NOTES

FLAG NOTES APPLY TO SHEET A5-1 ONLY

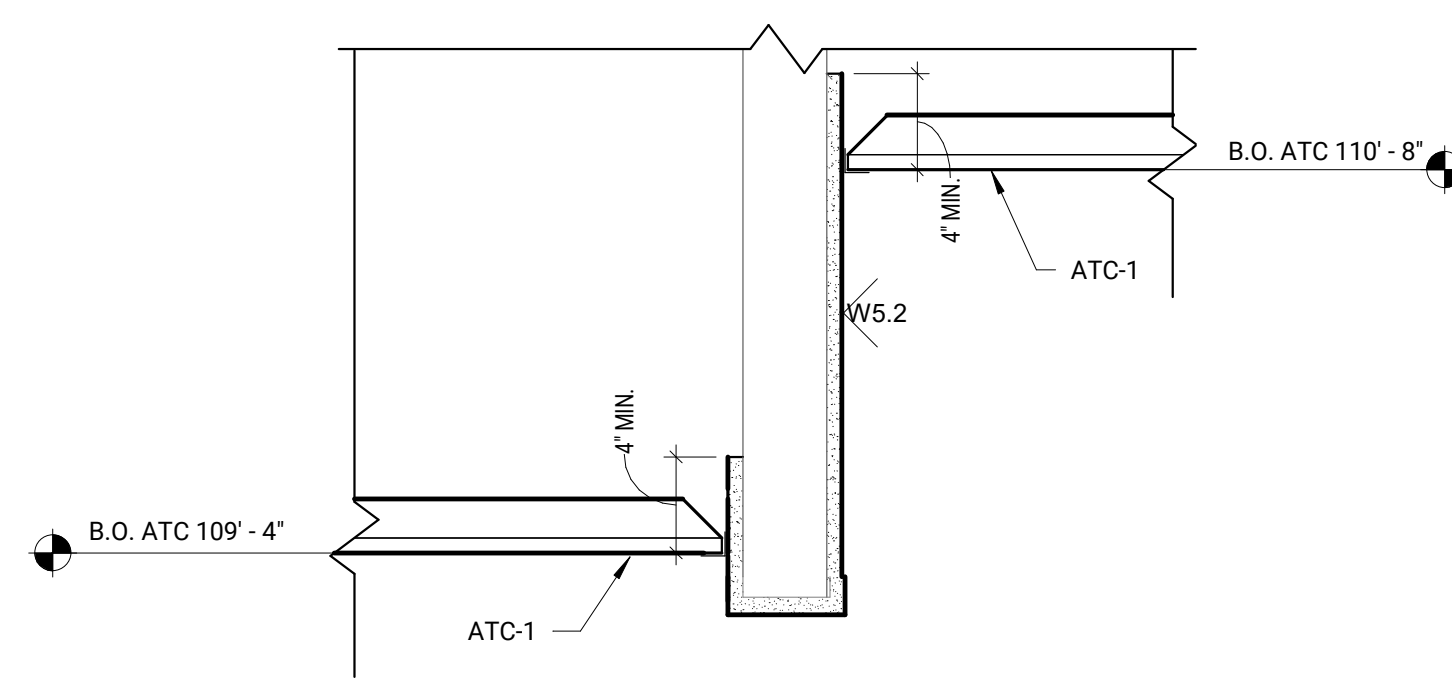
1. NOT USED.
2. PROVIDE AND INSTALL ATC HOLD-DOWN CLIPS AT EXTERIOR DOORS AS SHOWN IN THE FOLLOWING HATCH: . SEE SPEC SECTION 09 51 00.
3. PAINT PEMB STEEL MEMBRANE (EXISTING AND NEW) P-4.
4. PAINT PEMB ROOF PURLINS (EXISTING AND NEW) TO MATCH THE INTERIOR COLOR OF THE INSULATED METAL ROOF PANELS, P-3.
5. WRESTLING MAT STORAGE. SEE SPECIFICATION SECTION 11 66 23.56.



5 REFLECTED CEILING PLAN - UPPER LEVEL
 1/8" = 1'-0" 0' 1' 8' 16'



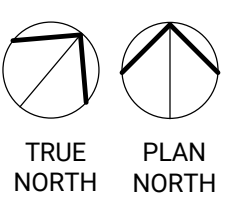
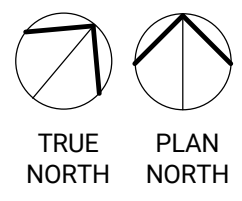
1 REFLECTED CEILING PLAN - MAIN LEVEL
 1/8" = 1'-0" 0' 1' 8' 16'



4 CEILING DETAIL AT LOCKER ROOMS
 1 1/2" = 1'-0" 0' 1' 8" 16'



2 CEILING DETAIL AT CORR. 114
 1 1/2" = 1'-0" 0' 1' 8" 16'



LEFT BINDING EDGE
3/16/2026 10:23:30 AM

- INTERIOR FINISH PLAN GENERAL NOTES**
- SEE INTERIOR FINISH PLANS AND/OR ELEVATIONS FOR PATTERNS AND DESIGNATIONS OF MATERIAL TERMINATIONS.
 - CEILING HEIGHT AND MATERIAL MAY VARY. SEE REFLECTED CEILING PLANS.
 - ALL FLOOR FINISH TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR WHEN DOOR IS IN CLOSED POSITION, UNO.
 - WHERE PAINTED EXPOSED STRUCTURE IS NOTED AT ROOM FINISH SCHEDULE, PAINT EXTENTS SHALL INCLUDE DECKING, JOISTS, BEAMS, PIPING, AND DUCT WORK.

- ROOM FINISH SCHEDULE REMARKS**
- SEE ELEVATIONS 3 & 4 ON A6-0 FOR TYPICAL RESTROOM / SHOWER WALL TILE PATTERNING.
 - PROVIDE EPOXY PAINT AT NON-TILED LOCATIONS AT THIS ROOM, WHERE OCCURRING.
 - INSTALL FLOOR TILE AT SAME LOCATION AS EXISTING.
 - PROVIDE FRP BEHIND MOP SINK IN THIS ROOM. SEE SPEC SECTION 06 83 16.
 - AT WALLS TO RECEIVE WALL PADS, VINYL BASE SHALL NOT BE PROVIDED.

ROOM FINISH SCHEDULE										
ROOM NO.	NAME	FLOOR	BASE	WALLS				CEILING MATERIAL	REMARK	
				NORTH	EAST	SOUTH	WEST			
100	VEST.		CPT-1	VB-1	P-1	P-1	P-1	ATC-1		
100A	CORR.		CPT-1	VB-1	P-1	P-1	P-1	ATC-1		
100A	WRESTLING AREA		CONC.	VB-1	P-1	P-1	P-1	EXP. STR. P-3	*4	
102	CLUST.		CONC.	VB-1	P-1	P-1	P-1	EXP. STR.	*4	
103	VEST.		CPT-1	VB-1	P-1	P-1	P-1	GWB, P-3		
104	LOCKER ROOM		CONC. P-5	VB-1	*P-1	*P-1	*P-1	ATC-1	*2	
105	RR		*PT-1A	*P-1 / CT-1.2	*P-1 / CT-1.2	*P-1 / CT-1.2	*P-1 / CT-1.2	ATC-1/ EXIST GWB, P-3	*1, 2, 3	
106	SHOWER		PT-1B	—	*CT-1.2	*CT-1.2	*CT-1.2	ATC-1/ GWB, P-3/ EXIST GWB, P-3	*1	
107	STAIR		CONC.	VB-1	P-1	P-1	P-1	ATC-1	*2	
108	TEAM ROOM		CONC. P-5	VB-1	P-1	P-1	P-1	ATC-1		
109	TEAM ROOM		CONC. P-5	VB-1	P-1	P-1	P-1	ATC-1		
110	LOCKER ROOM		CONC. P-5	VB-1	*P-1	*P-1	*P-1	ATC-1	*2	
111	RR		*PT-1A	*P-1 / CT-1.2	*P-1 / CT-1.2	*P-1 / CT-1.2	*P-1 / CT-1.2	ATC-1/ EXIST GWB, P-3	*1, 2, 3	
112	SHOWER		PT-1B	—	*CT-1.2	*CT-1.2	*CT-1.2	ATC-1/ GWB, P-3/ EXIST GWB, P-3	*1	
113	STAIR		CONC.	VB-1	P-1	P-1	P-1	ATC-1	*2	
114	CORR.		LVT-1	VB-1	P-1	—	P-1	ATC-1		
115	COACHES OFFICE		LVT-1	VB-1	P-1	P-1	P-1	ATC-1		
116	STORAGE		LVT-1	VB-1	P-1	P-1	P-1	ATC-1		
117	STORAGE		CONC.	VB-1	P-1	P-1	P-1	EXP. STR.		
118	TRAINER		LVT-1	VB-1	P-1	P-1	P-1	ATC-1		
119	STOR.		CONC.	VB-1	P-1	P-1	P-1	EXP. STR.		
120	TURF AREA		TF-1/WALK WAY PAD	*VB-1	*P-1	*P-1	*P-1	EXP. STR., P-3, 4	*5	
200	ATHLETIC STORAGE		CONC.	VB-1	P-1	P-1	—	EXP. STR.		
202	ATHLETIC STORAGE		EXIST.	VB-1	P-1	P-1	P-1	EXIST.		
ST-01	STAIR		EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.		
ST-02	STAIR		CONC.	VB-1	P-1	P-1	P-1	EXP. STR.		

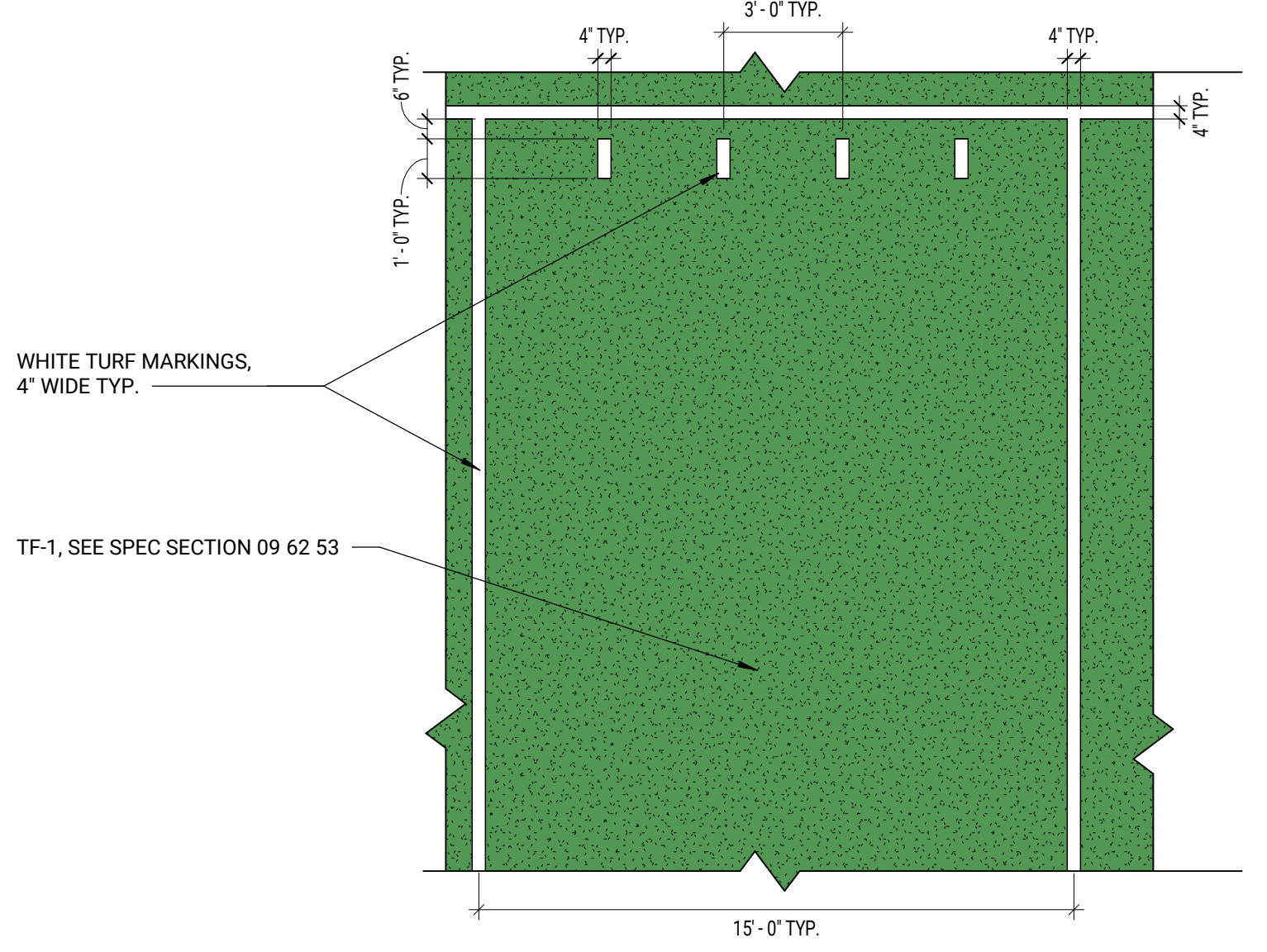
INTERIOR FINISH LEGEND

- - - DENOTES HALF HEIGHT PT EXTENTS, SEE INTERIOR FINISH PLANS FOR EXTENT.
 - - - DENOTES FULL HEIGHT PT EXTENTS, SEE INTERIOR FINISH PLANS FOR EXTENT.
 - - - DENOTES PLYWOOD WALL CAP/ HDWD. EDGE. SEE 6/ A3-1, 2/ A3-1, AND 4/ A3-2.

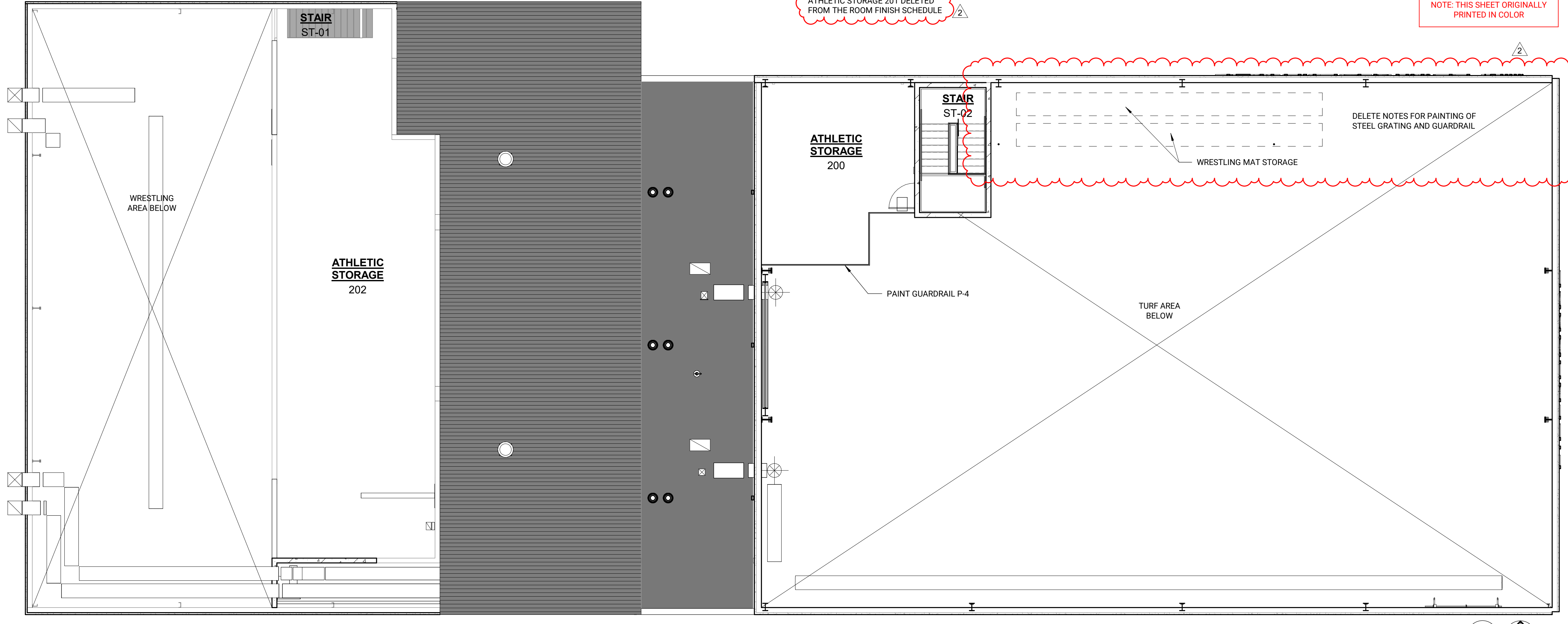
*NOTE: PATTERNS INDICATE MAJOR FLOOR MATERIAL CHANGES; SEE ROOM FINISH SCHEDULE FOR FULL MATERIAL DESIGNATION.

ROOM FINISH LEGEND

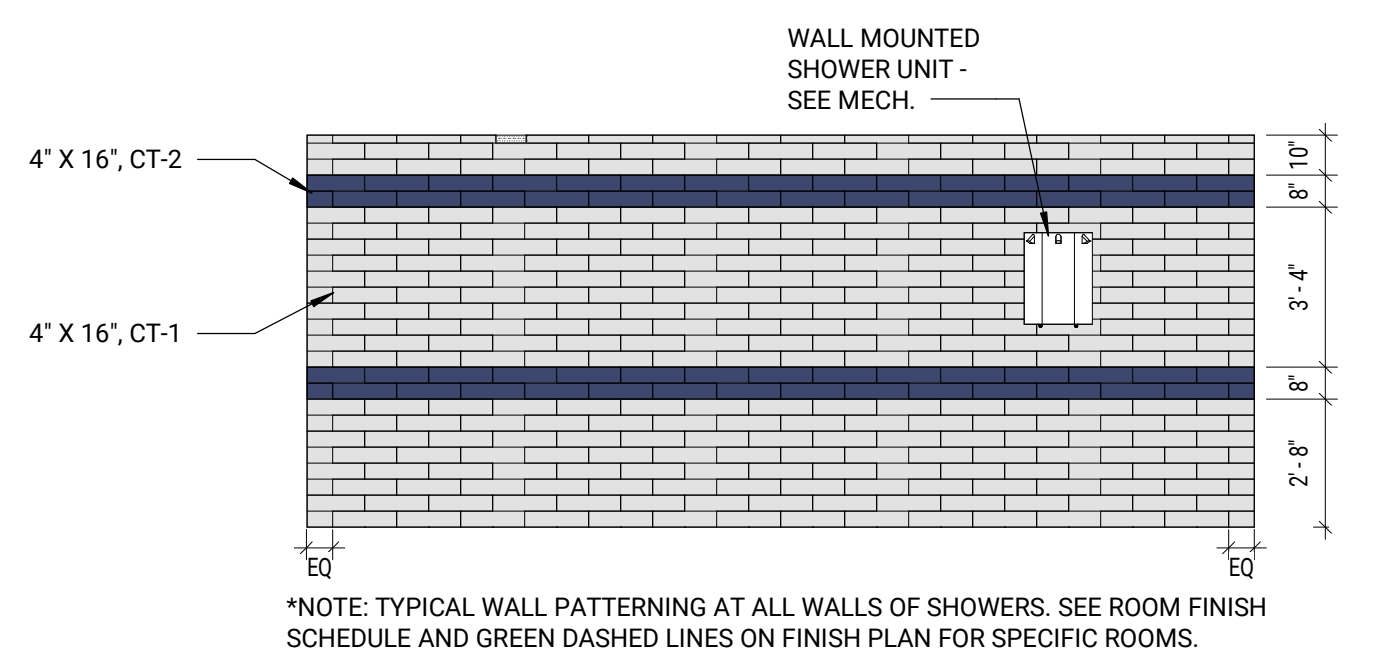
ATC	ACOUSTICAL TILE CEILING
CONC	CONCRETE - SEALED
CPT	CARPET
CT	CERAMIC TILE
EXP STR	EXPOSED STRUCTURE
GWB	GYP SUM WALL BOARD
P	PAINT
PT	PORCELAIN TILE
RUB	RUBBER
TF	TURF
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE



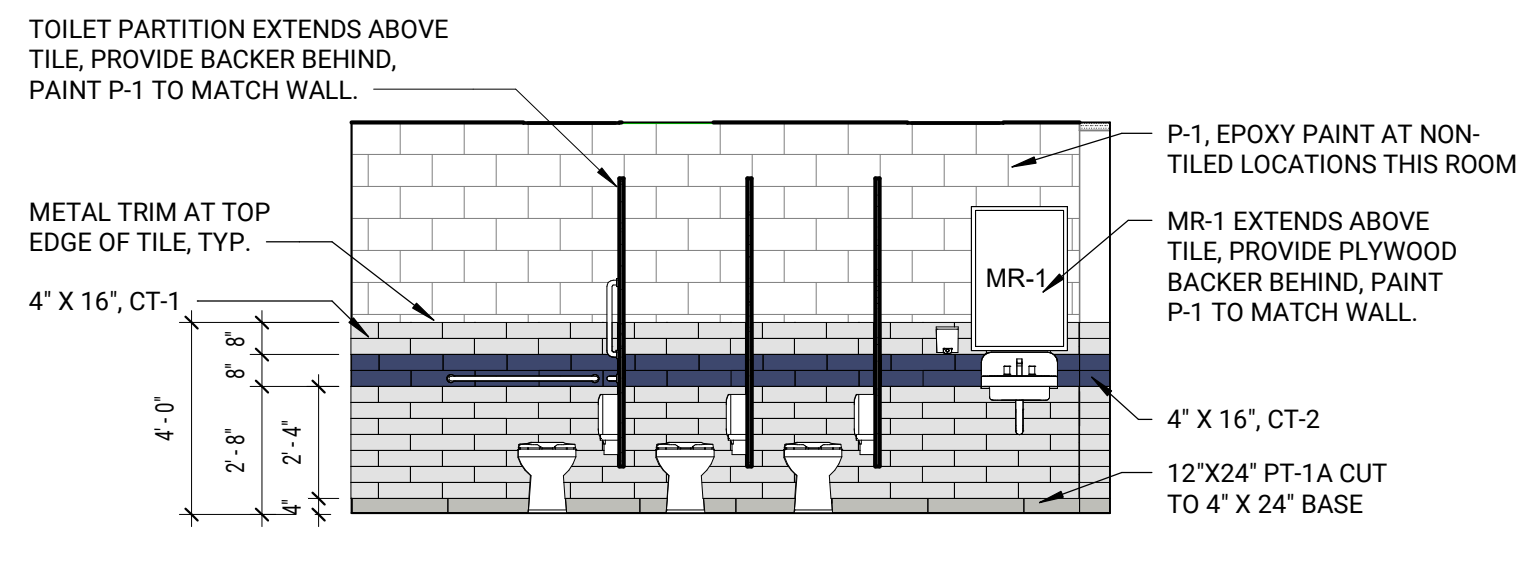
5 TURF - ENLARGED PLAN
1/4" = 1'-0" | 0' | 4' | 8'



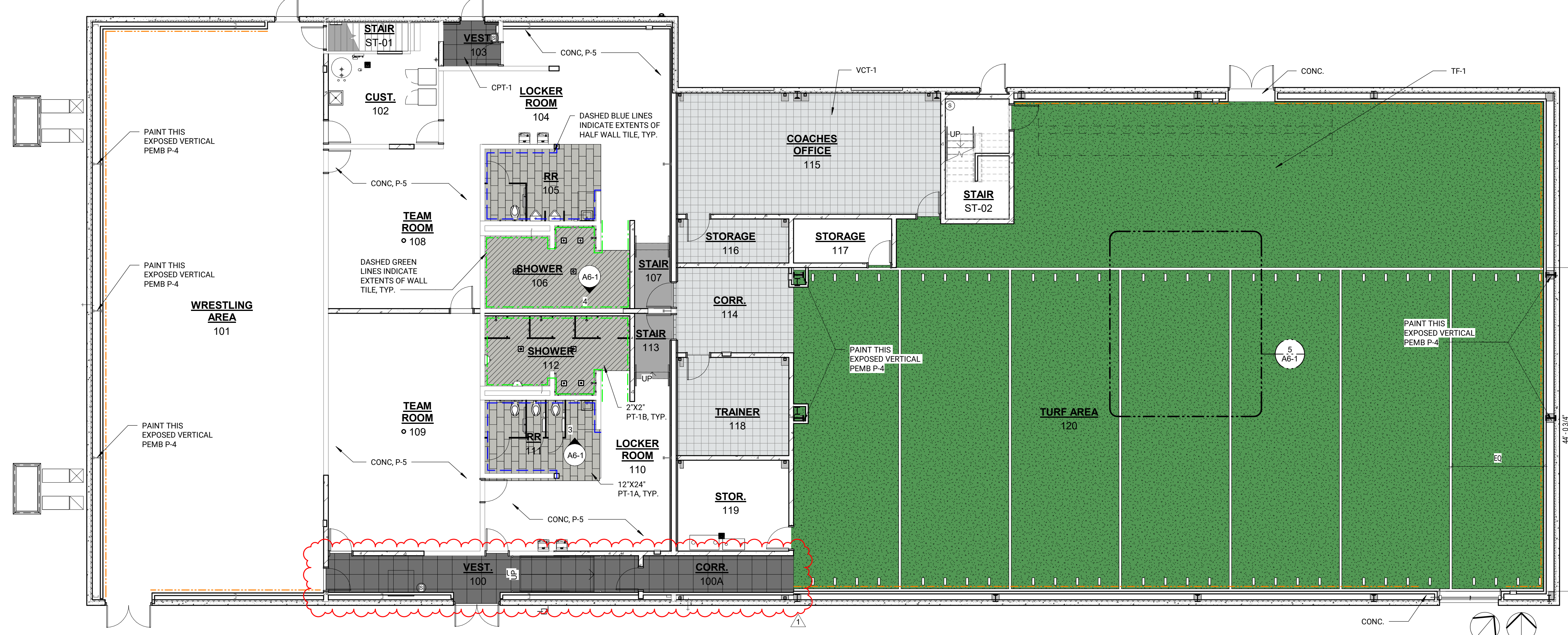
2 INTERIOR FINISH PLAN - UPPER LEVEL
1/8" = 1'-0" | 0' | 8' | 16'



4 SHOWER 106 - SOUTH
1/4" = 1'-0" | 0' | 4' | 8'



3 RR - 111 - NORTH
1/4" = 1'-0" | 0' | 4' | 8'



1 INTERIOR FINISH PLAN - MAIN LEVEL
1/8" = 1'-0" | 0' | 8' | 16'

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2	ADDENDUM No. 2	03/16/2023
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LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ROOM FINISH SCHEDULE & INTERIOR FINISH PLANS

A6-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	MEP	MECHANICAL ELECTRICAL PLUMBING
ACI	AMERICAN CONCRETE INSTITUTE	MAX	MAXIMUM
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MECH	MECHANICAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MFR	MANUFACTURER
ADD	ADDENDUM	MIN	MINIMUM
ADDL	ADDITIONAL	MISC	MISCELLANEOUS
ALT	ALTERNATE	MTL	METAL
ARCH	ARCHITECT	NDS	NATIONAL DESIGN SPECIFICATION
BP	BASE PLATE	NIC	NOT IN CONTRACT
BLDG	BUILDING	NTS	NOT TO SCALE
BRS	BEARINGS	OC	ON CENTER
BL	BRICK LEDGE	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMIN.
CJ	CAST IN PLACE CONSTRUCTION JOINT	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CL	CENTERLINE	PCI	PRECAST/PRESTRESSED CONCRETE INSTITUTE
CLR	CLEAR	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONN	CONNECTION	PCF	POUNDS PER CUBIC FOOT
CONST	CONSTRUCTION	PL	PLATE
CONT	CONTINUOUS	PLBG	PLUMBING
DL	DEAD LOAD	QTY	QUANTITY
DTL	DETAIL		
DIA	DIAMETER		
DIAG	DIAGONAL		
DM	DIMENSIONS		
DWGS	DRAWINGS		
EA	EACH		
EDR	ENGINEER OF RECORD	SDE	STEEL DECK INSTITUTE
ELE	ELEVATION	SJI	STEEL JOIST INSTITUTE
ELEC	ELECTRICAL	SDG	SLAB ON GRADE
EQ	EQUAL	SCHED	SCHEDULE
EXT	EXTERIOR	SM	SIMILAR
FIN	FINISH	SFA	SPACING/SPACES
FNDN	FOUNDATION	SPECS	SPECIFICATIONS
FT	FEET	STD	STANDARD
FV	FIELD VERIFY	STRUCT	STRUCTURAL
GA	GAGE	TYP	TYPICAL
GALV	GALVANIZED	TOC	TOP OF CURB
		TOS	TOP OF STEEL
HORZ	HORIZONTAL	TOW	TOP OF WALL
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
IBC	INTERNATIONAL BUILDING CODE	VERT	VERTICAL
ICF	INSULATED CONCRETE FORM	w	WITH
IN	INCHES	w/o	WITHOUT
INT	INTERIOR	WP	WORKPOINT
K	KIPS	WWF	WELDED WIRE FABRIC
L	ANGLE		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LB	POUND		
LSH	LONG SIDE HORIZONTAL		
LSV	LONG SIDE VERTICAL		
LONS	LONGITUDINAL		
LT GA	LIGHT GAGE		

STRUCTURAL NOTES

GENERAL

CONTRACT DOCUMENTS ARE INTENDED TO CONVEY THE STRUCTURAL DESIGN INTENT. THEY REPRESENT THE STRUCTURAL SYSTEMS, MATERIALS USED, TYPICAL DETAILS AND SPECIFIC DETAILS OF THE COMPLETED STRUCTURE. DETAILS MAY NEED TO BE ADAPTED BY THE CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER IN SOME LOCATIONS. ANY DIVERGENCE FROM THESE DRAWINGS SHALL BE APPROVED BY THE ARCHITECT AND EOR AND SHALL BE CONSISTENT WITH THE DESIGN INTENT SHOWN.

- GENERAL CONTRACTORS RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO:
 - DETERMINE CONSTRUCTION SEQUENCE AND PROCEDURES.
 - PROVIDE A SAFE JOBSITE FOR WORKERS, SUBCONTRACTORS, TESTING AND INSPECTION AGENCIES, AND DESIGN PROFESSIONALS.
 - DESIGN AND INSTALLATION OF ALL SHORING AND TEMPORARY BRACING NECESSARY TO ENSURE THE SAFETY OF THE BUILDING, ITS COMPONENTS AND OCCUPANTS.
 - VERIFY AND COORDINATE DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS. IF DISCREPANCIES EXIST, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO COMMENCING THAT PROCEDURE.
 - COORDINATE THE LOCATION AND LOADS OF MECHANICAL AND OWNER EQUIPMENT WITH THE STRUCTURE. OPENINGS AND EQUIPMENT SHOWN IN THE DRAWINGS ARE REPRESENTATIVE OF EQUIPMENT THAT MAY BE USED ON THIS PROJECT AND WHAT WAS USED AS THE BASIS FOR THE STRUCTURAL DESIGN, AND BIDDING PURPOSES. DEVIATIONS SHALL BE APPROVED BY THE ARCHITECT AND EOR.
 - PROTECT FOUNDATIONS FROM FROST DURING CONSTRUCTION. REFER TO SOILS REPORT FOR FURTHER INFORMATION.
- IF CONFLICTS EXIST IN THE CONSTRUCTION DOCUMENTS THE STRICTEST PROVISIONS SHALL GOVERN.
- DETAILS SHOWN IN TYPICAL LOCATIONS SHALL APPLY TO ALL LOCATIONS WITH THE SAME OR SIMILAR CONDITIONS.

REINFORCED CONCRETE

- REFER TO DESIGN DATA.
- ACI FIELD REFERENCE MANUAL, SP-15 SHALL BE FOLLOWED. AT LEAST ONE COPY SHALL BE AVAILABLE ON SITE DURING CONCRETING OPERATIONS.
- PROVIDE CONTROL JOINTS IN SLAB ON GRADE AS INDICATED BY THE DRAWINGS. IF NO CONTROL JOINTS ARE SHOWN, PROVIDE CONTROL JOINTS NO FURTHER THAN 36 TIMES THE SLAB THICKNESS (4" THICK SLAB = 12'-0"). CONTROL JOINTS SHALL PROVIDE A SQUARE SECTION WITH THE LENGTH NO GREATER THAN 1/2 TIMES THE WIDTH.
- UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, ALL CP AND CMU WALLS SHALL BE CONNECTED TO THE FOUNDATION WITH DOWELS THAT MATCH THE WALL REINFORCING SIZE AND SPACING.
- REFER TO SCHEDULES FOR TYPICAL REINFORCING DETAILS.
- REBAR SHALL BE SPLICED TO PROVIDE A MINIMUM LAP AS FOLLOWS. TOP BARS ARE HORIZONTAL REINFORCING THAT IS PLACED WITH 12" OR MORE OF CONCRETE BELOW THE BAR.

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP BAR	24"	32"	40"	48"	70"	80"	91"	102"	113"
TYP BAR	19"	25"	31"	37"	54"	62"	70"	79"	87"
- PROVIDE CONCRETE COVER FOR ALL REINFORCING AS FOLLOWS:

a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
b. EXPOSED TO EARTH OR WEATHER	3"
#6 BAR AND LARGER	3"
#5 BAR AND SMALLER	1 1/2"
c. INTERIOR EXPOSURE	1 1/2"
BEAMS & COLUMNS	1 1/2"
WALLS	1 1/2"
SLABS AND JOISTS	3/4"
- PROVIDE AN ADDITIONAL (2) #5 BARS AROUND ALL RECTANGULAR OPENINGS IN CP WALLS AND (1) #5 BAR AROUND ALL RECTANGULAR OPENINGS IN CP SLABS. ADDITIONAL BAR SHALL EXTEND 24" MINIMUM BEYOND THE OPENING.
- ALL REBAR, EXCLUDING DOWELS INTO FOUNDATION, TO BE PROPERLY CHAIRED AND SECURED PRIOR TO PLACING OF CONCRETE. WET SETTING OF REBAR IS NOT PERMITTED.

MASONRY

- REFER TO DESIGN DATA.
- PRIOR TO COMMENCING WORK, SUBMIT THE FOLLOWING:
 - REBAR SHOP DRAWINGS, GROUT AND MORTAR MIXES.
 - INSTALLATION PROCEDURES FOR GROUT PLACEMENT, VIBRATING AND ACCURATELY POSITIONING OF REINFORCING.
 - COLD AND HOT WEATHER CONSTRUCTION.
 - LETTER ACKNOWLEDGING THAT JOB FOREMAN HAS READ AND UNDERSTOOD STANDARD NOTES, REINFORCING AND DETAILS.
- ALL MASONRY WALLS SHALL HAVE HORIZONTAL JOINT REINFORCING AT 16" OC. PROVIDE 6" MIN LAP OF JOINT REINFORCING.
- WHEN BRICK VENEER IS USED WITH CMU BACK UP, PROVIDE LADDER TYPE JOINT REINFORCING WITH PINTEL AND EYE ADJUSTABLE TIES FOR BRICK.
- COMPLY WITH ACI 530.1 SECTION 1.8 FOR HOT AND COLD WEATHER CONSTRUCTION.
- COMPLY WITH ACI 530.1 SECTION 3.2F FOR CLEANOUTS AND SECTION 3.5 FOR GROUT PLACEMENT.
- USE BAR POSITIONERS TO ACCURATELY LOCATE VERTICAL REINFORCING, UNLESS APPROVED ALTERNATE METHOD IS USED.
- UNLESS SELF-CONSOLIDATING GROUT IS USED, VIBRATE GROUT DURING PLACEMENT AND REVIBRATE ONCE GROUT SLUMP HAS REACHED 3". CONCRETE VIBRATOR SHALL NOT BE USED.
- ALL OPENINGS SHALL BE REINFORCED AS SHOWN IN THE STANDARD CMU REINFORCING DETAILS.
- GROUT SOLID ONE COURSE ABOVE AND BELOW BOLTS AND EXPANSION BOLTS.
- GROUT CORES SOLID BELOW GRADE.
- WHERE CMU COURSES OF DIFFERENT THICKNESS ARE LAID ABOVE ONE ANOTHER, GROUT THE FIRST AND LAST COURSE OF EACH SOLID.
- ALL CMU WALLS SHALL HAVE LINTELS. IF NO LINTEL IS SHOWN, ADAPT LINTEL DETAILS FOR OPENING. ALL STEEL LINTELS SHALL BE GALVANIZED.

STRUCTURAL NOTES

STRUCTURAL STEEL

- REFER TO DESIGN DATA.
- FIELD CUTTING OR OTHER FIELD MODIFICATIONS TO THE STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR APPROVAL OF THE EOR.
- SIZES OF FILLET WELDS NOT SHOWN SHALL CONFORM TO THE MINIMUM SIZES AS SPECIFIED BY AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS."
- PROVIDE TWO COATS OF ASPHALTIC PAINT ON ALL STRUCTURAL STEEL EXPOSED TO THE SOIL OR BELOW SLAB ON GRADE.

METAL DECK

- REFER TO DESIGN DATA.
- GALVANIZE ALL DECKING, UNLESS OTHERWISE INDICATED BY THE ARCHITECT. PROVIDE MANUFACTURER'S STANDARD RUST INHIBITIVE PAINT ON ALL OTHER ACCESSORIES.
- ALL METAL DECK OPENINGS SHALL BE REINFORCED. FOR OPENINGS LESS THAN 6", REINFORCE WITH 2" x 20 GAGE x 2'-8" STRAP EACH SIDE OF OPENING WELDED TO TOP OF DECK. FOR OPENINGS GREATER THAN 6", REFER TO METAL DECK ATTACHMENT SCHEDULE FOR DETAILS.

SPECIAL INSPECTION

- SPECIAL INSPECTIONS TO BE PERFORMED BY A LICENSED STRUCTURAL ENGINEER OR CERTIFIED SPECIAL INSPECTOR WHO HAS BEEN CERTIFIED IN THE MATERIAL BEING INSPECTED.
- SPECIAL INSPECTION AND TESTING IS REQUIRED ON THIS PROJECT. THE FOLLOWING ENTITIES SHALL PERFORM THE FOLLOWING:
 - THE OWNER: SHALL HIRE A QUALIFIED SPECIAL INSPECTOR/TESTING AGENCY AS INDICATED BELOW.
 - THE GENERAL CONTRACTOR: SHALL COORDINATE THE REQUIRED SPECIAL INSPECTIONS WITH THE SPECIAL INSPECTOR AND SUB CONTRACTOR PERFORMING THE WORK.
 - THE SPECIAL INSPECTOR: SHALL INSPECT THE REQUIRED WORK AND SUBMIT A REPORT TO THE ARCHITECT/STRUCTURAL ENGINEER, AND THE BUILDING OFFICIAL AS REQUIRED BY THE BUILDING OFFICIAL. THE REPORT SHALL INDICATE: THE WORK WHICH WAS INSPECTED, THE WORK WHICH MET THE DESIGN SPECIFICATIONS, AND WORK WHICH DID NOT MEET THE DESIGN SPECIFICATIONS. REMEDIAL ACTION REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD, AND REMEDIAL ACTION COMPLETED. ONCE THE INSPECTIONS ARE COMPLETE, A FINAL STATEMENT OF SPECIAL INSPECTION SHALL BE SUBMITTED INDICATING THAT THE CONSTRUCTION MET THE REQUIRED SPECIFICATIONS, OR ANY NON-COMPLIANCE WHICH EXISTS.
- SCOPE AND FREQUENCY OF INSPECTIONS SHALL BE AS PER SPECIFICATIONS OR AS MINIMUM PER REFERENCED STANDARDS.
- THE FOLLOWING TABLE PROVIDES A GENERAL OVERVIEW OF THE REQUIRED INSPECTIONS. REFER TO REFERENCED CODE SECTIONS FOR SPECIFIC REQUIREMENTS.

MATERIAL (IBC2015)	REFERENCED STANDARD	APPLIES TO	NOTES
STEEL (1705.2)	AISC 360-16	WELDING HIGH-STRENGTH BOLTING STEEL FRAME DETAILS (BRACING, STIFFENING MEMBER LOCATIONS, AND CONNECTIONS)	SHOP FABRICATION SEE 1704.2.5
METAL DECK (1705.2.2)	SDI QAQC 2017	WELDING AND MECHANICAL FASTENING	
CONCRETE (1705.3)	IBC TABLE ACI 318-14	REINFORCEMENT MATERIAL WELDING AND PLACEMENT ANCHORAGE CAST AND POST-INSTALLED DESIGN MIX AND IN-SITU STRENGTH PLACEMENT ERECTION CURING	EXCLUDES: SLAB ON GRADE, SIDEWALKS AND PAVING
MASONRY (1705.4)	TMS 602-16 QA LEVEL 2	PREPARATION OF MORTAR AND JOINTS REINFORCEMENT AND CONNECTORS ANCHORAGES AND GROUTING	PRISM TESTING NOT REQUIRED
WIND (1705.11)	NOT REQUIRED	NOT REQUIRED	
SEISMIC (1705.12)	NOT REQUIRED	NOT REQUIRED	

DESIGN DATA

GOVERNING CODE:	2015 INTERNATIONAL BUILDING CODE
FOUNDATION PARAMETERS:	
SOIL INVESTIGATION PERFORMED BY	Therese Gestech
REPORT NUMBER	TO 125972.01
MINIMUM FOOTING DEPTH FOR FROST (BELOW FINISH GRADE)	42 IN
ALLOWABLE SOIL BEARING PRESSURE: CONTINUOUS FOOTINGS	1500 PSF
PAD FOOTINGS	1500 PSF
THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS OF THE REPORT. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER AFTER EXCAVATION TO DETERMINE IF THE CONDITIONS COMPLY WITH THE SOILS REPORT. EXCAVATIONS SHALL BE TESTED BY AN APPROVED TESTING LABORATORY PRIOR TO PLACING CONCRETE.	
PEMB PARAMETERS:	
PRIMARY FRAMES:	
TOTAL LOAD	L/180
WIND LIVESNOW	L/240
BUILDING SWAY	H/240
END WALL COLUMNS	L/360*
GIRTS	L/240
PURLINS	L/240
ROOF PANEL	L/120*
WALL PANEL	L/120*
*DEFLECTION DUE TO 10 YR MRI	
DESIGN LOADS:	
BUILDING RISK CATEGORY	III
COLLATERAL LOAD:	
MINIMUM LOAD	4 PSF
ROOF LIVE LOAD:	
MINIMUM LIVE LOAD	20 PSF
SNOW:	
GROUND SNOW (P _g)	30 PSF
FLAT ROOF SNOW (P _f)	23.1 PSF
MIN FOR DESIGN	25 PSF
SNOW EXPOSURE (C _e)	1.0
THERMAL FACTOR (C _t)	1.0
SLOPE FACTOR (C _s)	1.0
SNOW IMPORTANCE FACTOR (I _s)	1.1
UNBALANCED SNOW LOADS	ASCE 7-16 SECTION 7.6
SNOW DRIFTING	REFER TO PLAN
RAIN INTENSITY:	
60 MIN DURATION	3.81 INHR
15 MIN DURATION	7.21 INHR
FLOOR LIVE LOAD:	
STORAGE MEZZANINE	125 PSF
WIND:	
ULTIMATE WIND SPEED (V)	120 MPH
ASD WIND SPEED (V _{asd})	93 MPH
SERVICE WIND (XX YR MRI)	78 MPH
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	0.18
NET UPLIFT ON JOIST	15 PSF
SEISMIC:	
SEISMIC IMPORTANCE FACTOR (I _s)	1.25
SITE CLASS	D
S _e	0.07
S ₁	0.06
S _{0.1}	0.076
S _{0.2}	0.073
SEISMIC DESIGN CATEGORY	B
MATERIAL PROPERTIES:	
REINFORCED CONCRETE:	
28 DAY CONCRETE STRENGTHS (MINIMUM)	f_c f_w
FOOTINGS	4000 PSI 0.48
SLAB ON GRADE	3500 PSI 0.50
SUPPORTED SLABS AND STOOPS	4000 PSI 0.48
WALLS	4000 PSI 0.48
REINFORCING BARS	ASTM A615 GRADE 60
WELDED BARS AND ANCHORS	ASTM A706 GRADE 60
WELDED WIRE FABRIC	A198 CSA C30.5
MASONRY:	
CMU	GRADE N, NORMAL WT
f_m	2000 PSI
REINFORCING BARS	ASTM A615 GRADE 60
JOINT REINFORCING	5 GAGE LADDER TYPE
GALVANIZING	
INTERIOR WALLS	ASTM A494 CLASS 1
EXTERIOR WALLS	ASTM A153 CLASS B-2
MASONRY GROUT	ASTM C476 w/ 8" - 11" SLUMP
MORTAR	
CMU	TYPE S
BRICK	TYPE N
STRUCTURAL STEEL:	
W SHAPES	ASTM A992
ROLLED SHAPES & PLATES	ASTM A36
TUBES	ASTM A500 GRADE B
PIPES	ASTM A53 TYPE E OR S
WELDING ELECTRODES	E70XX
BOLTS	ASTM F1554 GRADE A55
ANCHOR RODS	ASTM F1554, GRADE 55
EXPANSION BOLTS	HILTI KWIK BOLT 3 OR APPROVED EQUIV.
ADHESIVE ANCHORS	HILTI HIT-HY 200 (HY 270 MASONRY) OR APPROVED EQUIV.
SCREW ANCHORS	SIMPSON TITEN HD OR HILTI HUS-H
SLEEVE ANCHORS	HILTI HL-C OR APPROVED EQUIV.
FASTENERS IN CONTACT W/ TREATED LUMBER	304 OR 316 STAINLESS, GALVANIZED ASTM F329 OR A153 OR APPROVED EQUIV.
METAL DECK:	
FORM DECK (STRUCT STOOPS)	1 1/2" TYPE "C" 20 GAGE, GALV
COMPOSITE FLOOR DECK	1 1/2" TYPE "VL" 20 GAGE, GALV

FOUNDATION SIZES ARE PRELIMINARY AND FOR BIDDING PURPOSES ONLY. CONSTRUCTION FOUNDATIONS WILL BE PROVIDED ONCE PEMB SUBMITTAL HAS BEEN PROVIDED

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MECHANICAL + ELECTRICAL ENGINEER

MORRISSEY ENGINEERING
4940 North 118th Street
Omaha, NE 68164

2	Addendum 2	3/16/26
#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

STRUCTURAL NOTES & DESIGN DATA

S1-1

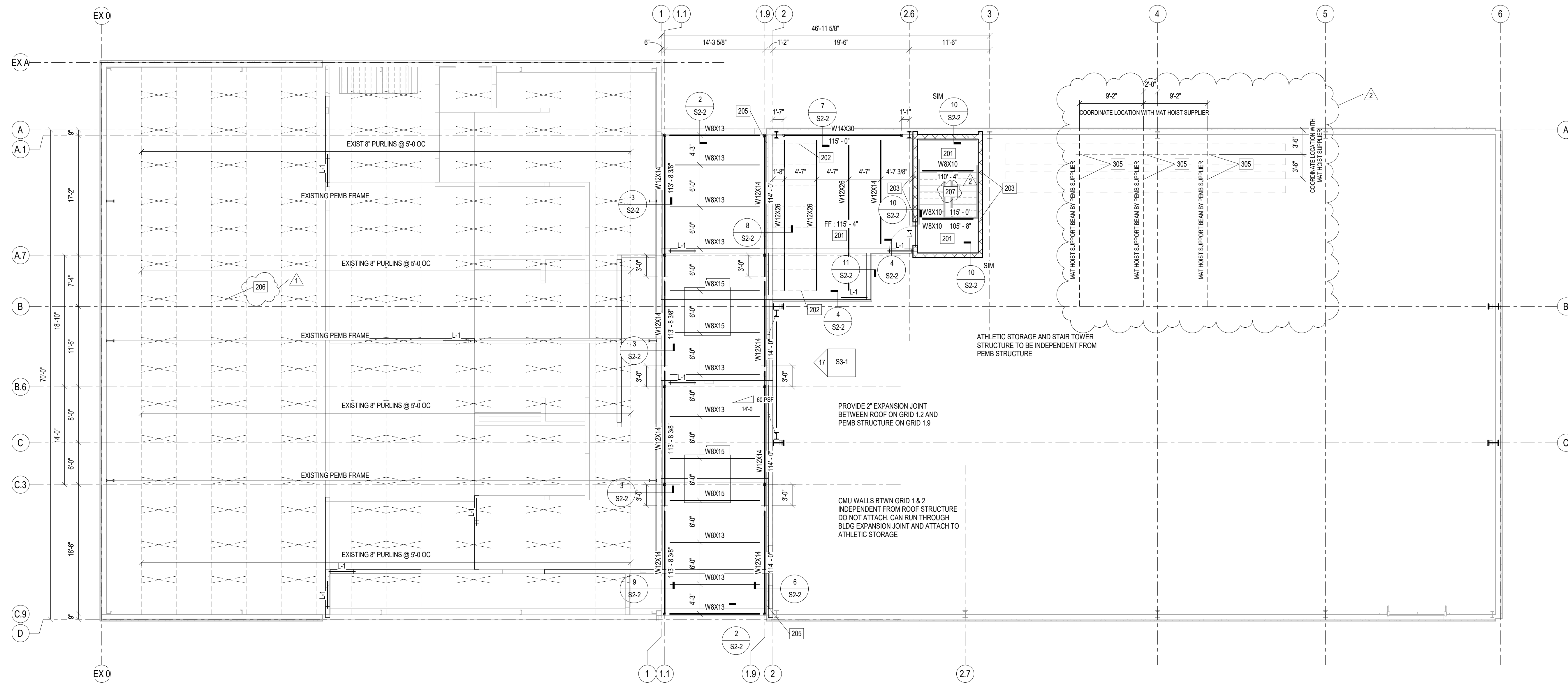
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GENERAL ROOF PLAN NOTES

- REFER TO DESIGN DATA, SCHEDULES & TYP DETAILS
- INDICATES KEYNOTE REFER TO PLAN FOR LOCATION
- UNLESS NOTED OTHERWISE ALL DIMENSIONS ARE TO FACE OF WALL FRAMING OR CENTERLINE OF COLUMNS
- FRAMING KEY
 ○ BEAR ON COLUMN
 □ FRAME INTO COLUMN
 D/L/L END REACTIONS
 T ### TOP OF STEEL
 B ### BOTTOM OF STEEL
- INDICATES BOTTOM FLANGE KICKER - REFER TO DETAILS
- PSF INDICATES SNOW DRIFT. ADD TO BASE SNOW. REFER TO DESIGN DATA.
- CONFIRM RTU LOCATIONS, SIZES, AND LOADS w/ MECH FINAL CUT SHEETS. REFER TO METAL DECK SCHEDULE FOR FRAMED OPENINGS
- JOIST SIZES LISTED ARE PER SJI CODE OF STANDARD PRACTICE CONSIDERING LOADS FROM RTUS, DRIFTS, AND THOSE LISTED UNDER DESIGN DATA.

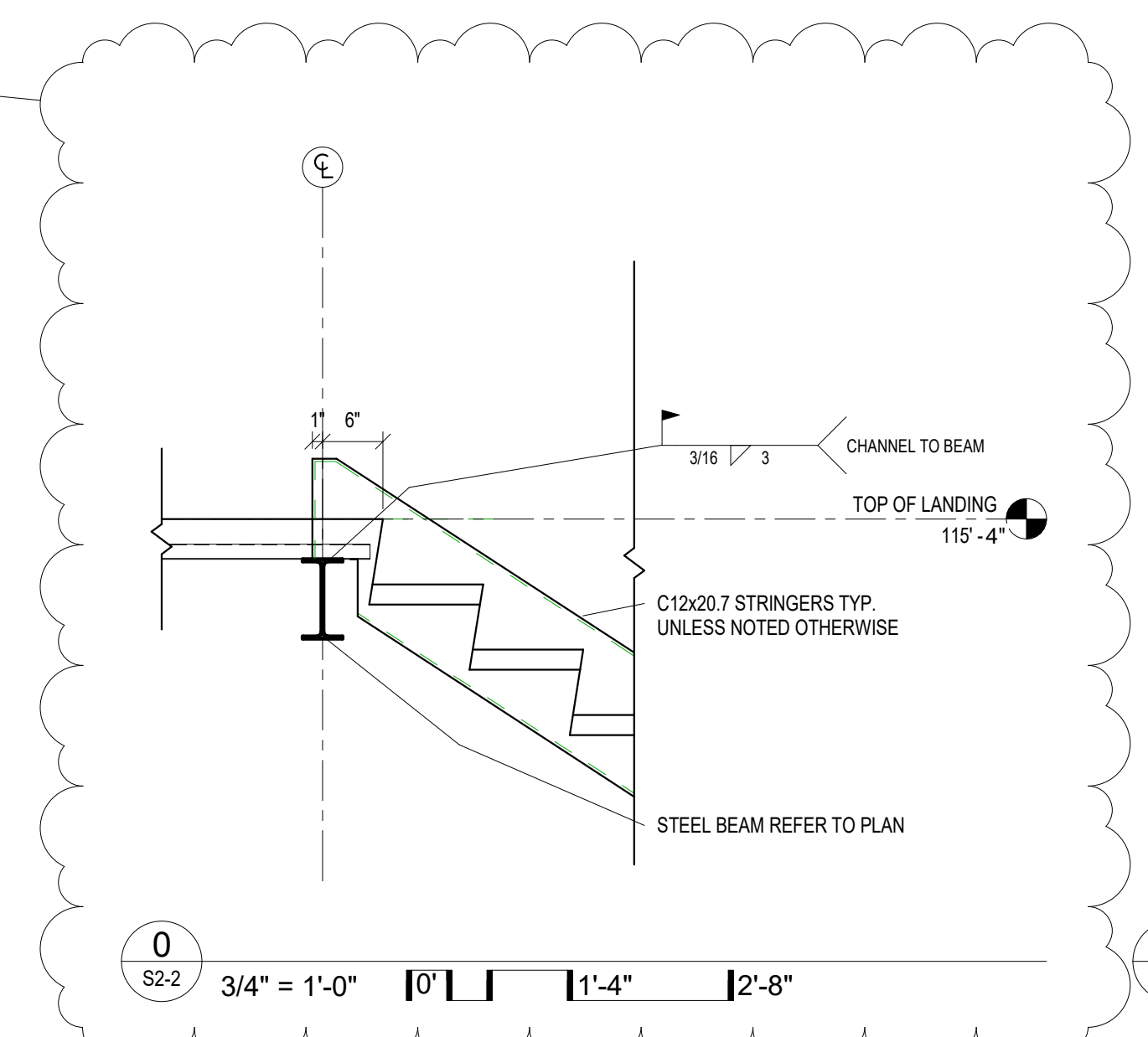
ROOF KEYNOTES

- REFER TO PLAN FOR LOCATION
- NOT ALL NOTES OCCUR ON EA SHEET

- 201 4" CIP SLAB ON 1 1/2" V.L. MTL DECK REINF w/ 6#xW2 3#W2 1 W1#F
- 202 HSS 1 1/2 x 1 1/2 x 3/16 x 6'0" IN DECK FLUTES @ 3'-0" OC. WELD TO BEAMS & DECK ANGLE
- 203 PROVIDE 3#x6#8" EMBED w/ (2) 1/2"x6" HS IN GROUTED CELL. GROUT CELL FULL HEIGHT & WELD BEAM TO EMBED PL w/ 3/16"x5" FILLET EA SIDE. BEAR BEAM ON EMBED 5"
- 205 PROVIDE 2" BUILDING EXPANSION JOINT BTWN ROOF ON GRID 1.2 & PEMB STRUCTURE ON GRID 1.9
- 206 PEMB ROOF SUPPLIER SHALL PROVIDE PURLIN BRIDGING @ 9'-0" OC FOR ALL PURLINS IN THE EXISTING BUILDING. PURLIN BRIDGING IS REQUIRED TO PROVIDE LATERAL SUPPORT FOR THE EXISTING PURLINS DUE TO THE REMOVAL OF THE EXISTING SCREW DOWN ROOF AND REPLACEMENT WITH INSULATED ROOF PANEL. PURLIN BRIDGING SHALL BE INSTALLED BY ROOF PANEL INSTALLER
- 207 REFER TO DETAILS S2-2 & S2-2 FOR STAR STRINGER CONNECTION TO LANDINGS
- 305 DESIGN MAT HOIST BEAM FOR (2) 12K HOIST REACTIONS VERIFY LOAD AND LOCATION WITH MAT SUPPLIER

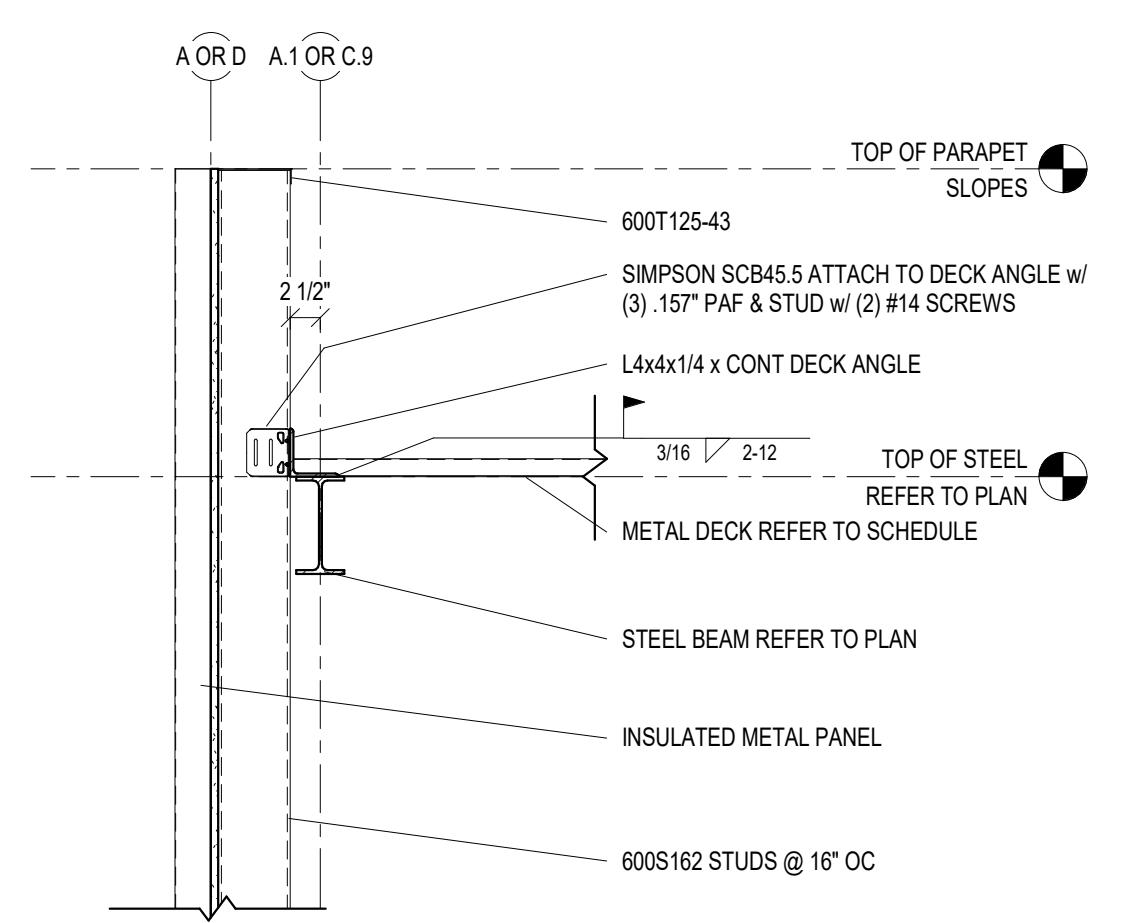
1 UPPER LEVEL - LOW

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



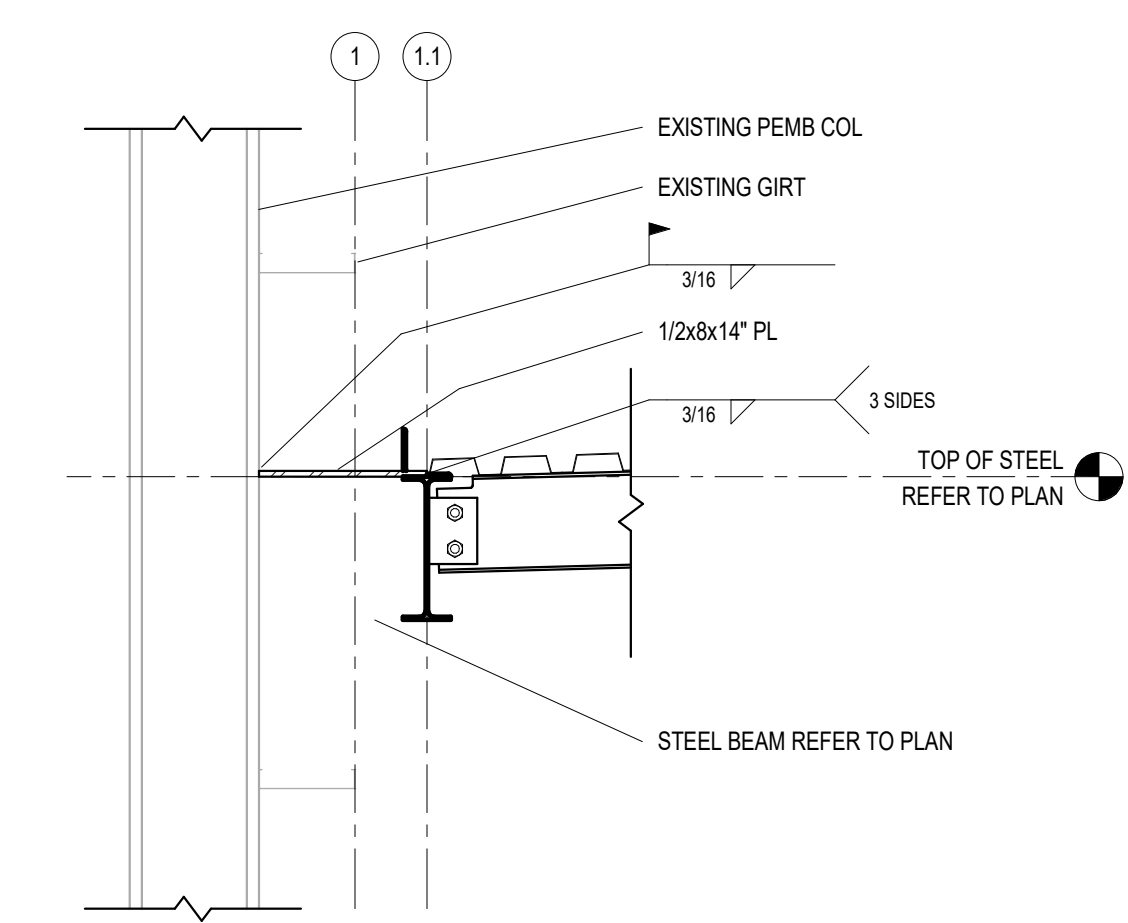
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3/4" = 1'-0" 0' 1'-4" 2'-8"



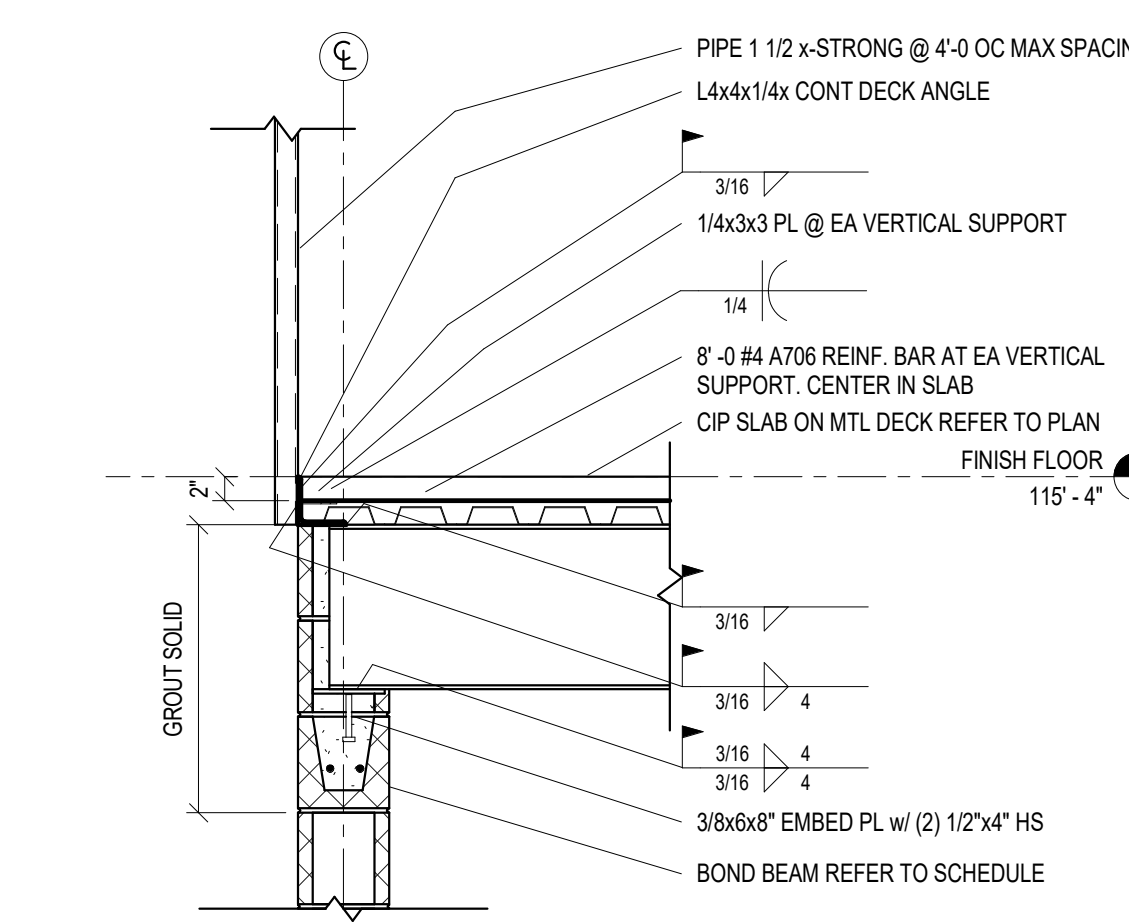
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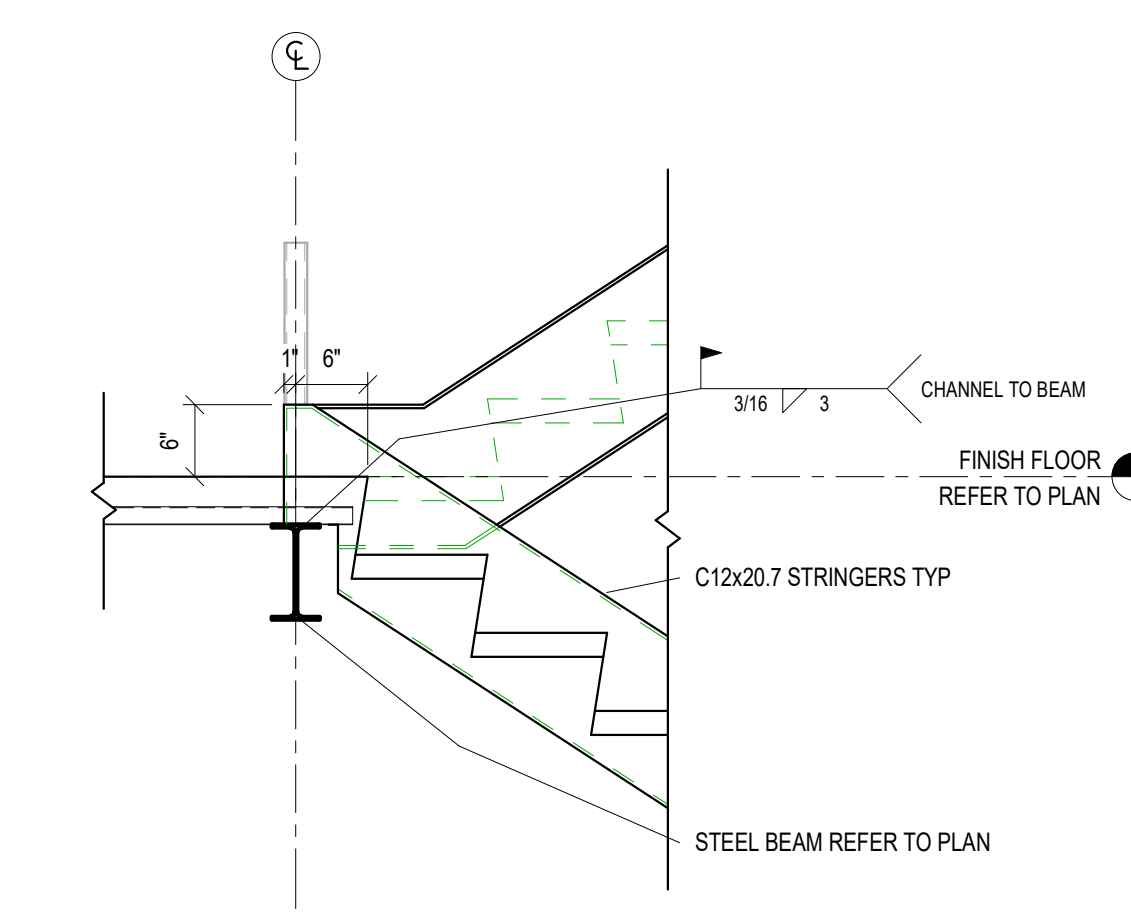
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3/4" = 1'-0" 0' 1'-4" 2'-8"



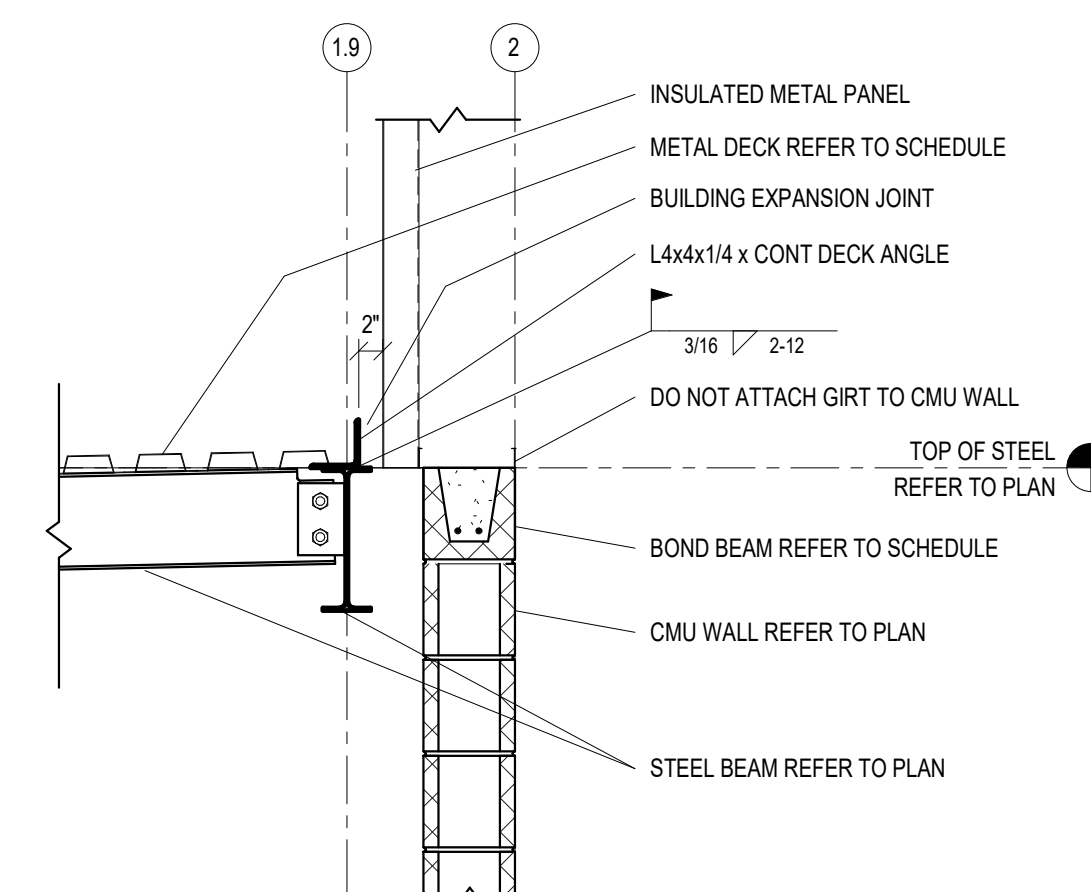
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3/4" = 1'-0" 0' 1'-4" 2'-8"



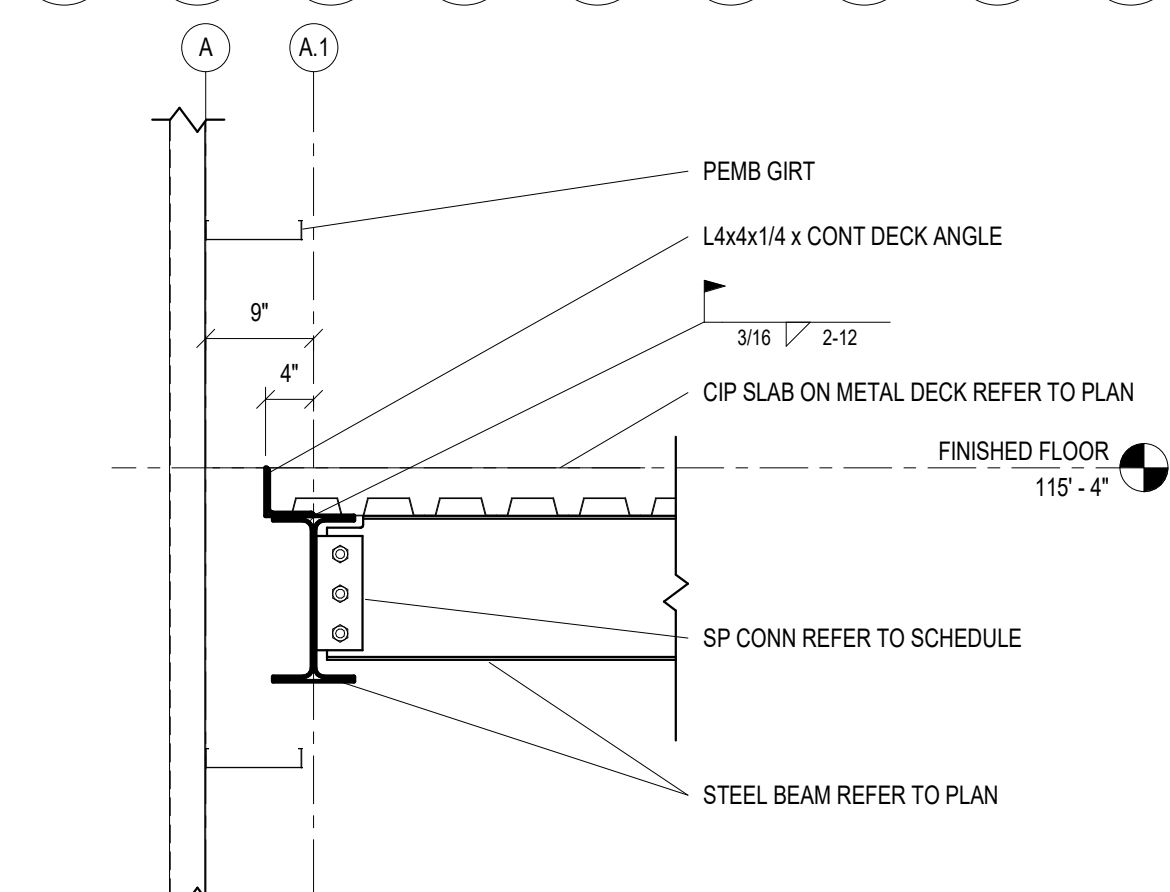
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3/4" = 1'-0" 0' 1'-4" 2'-8"



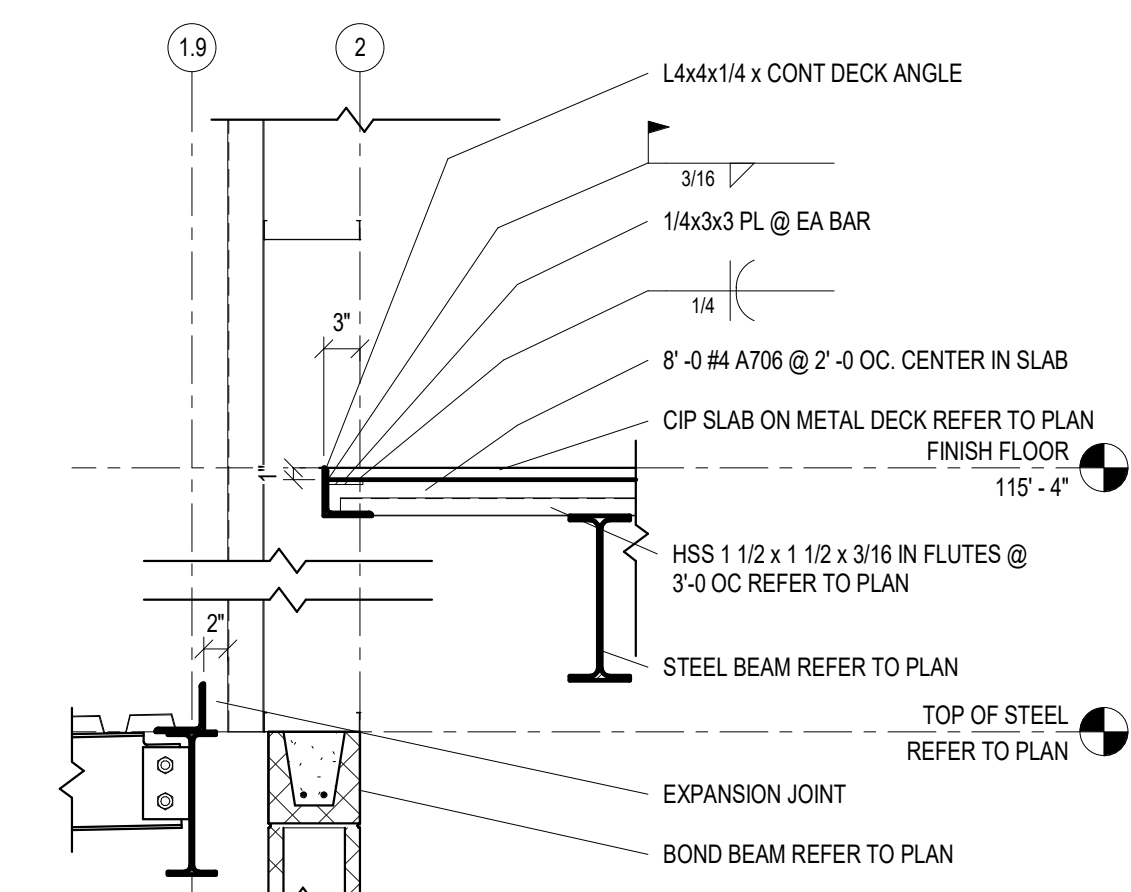
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3/4" = 1'-0" 0' 1'-4" 2'-8"



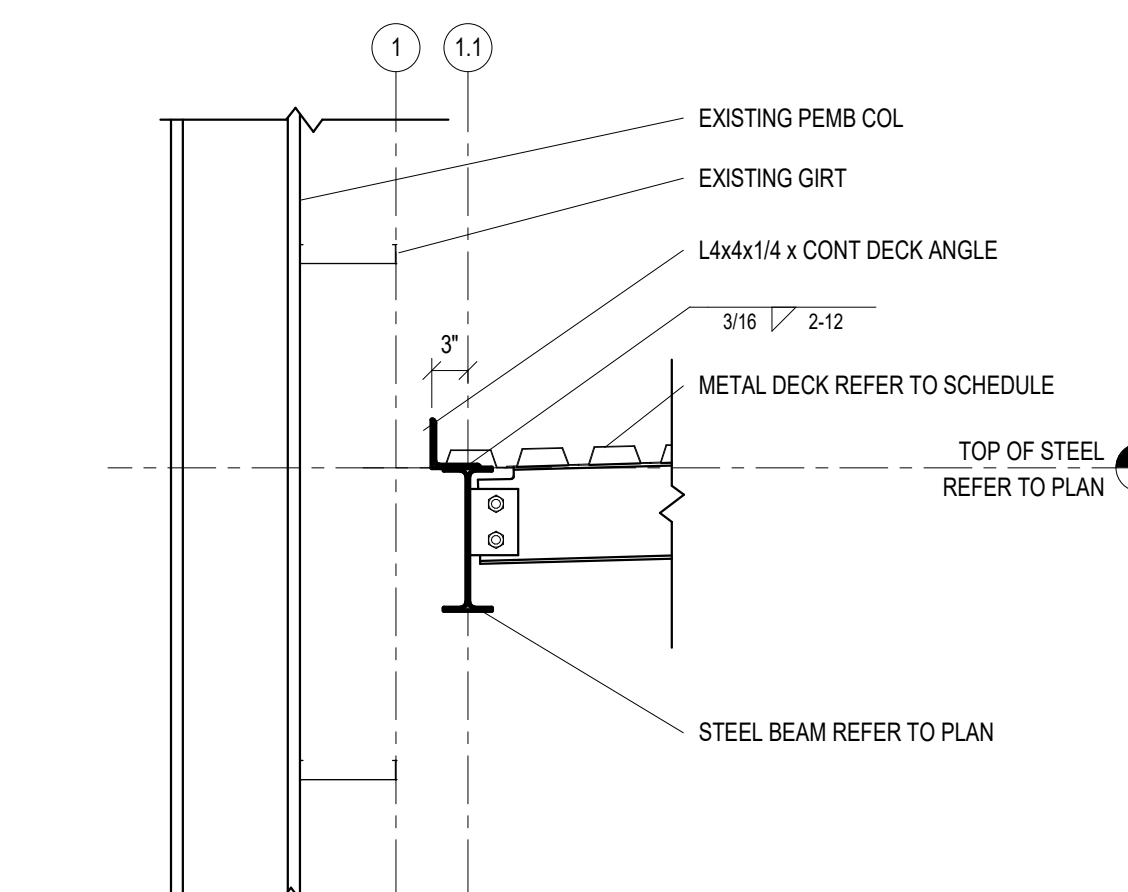
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3/4" = 1'-0" 0' 1'-4" 2'-8"



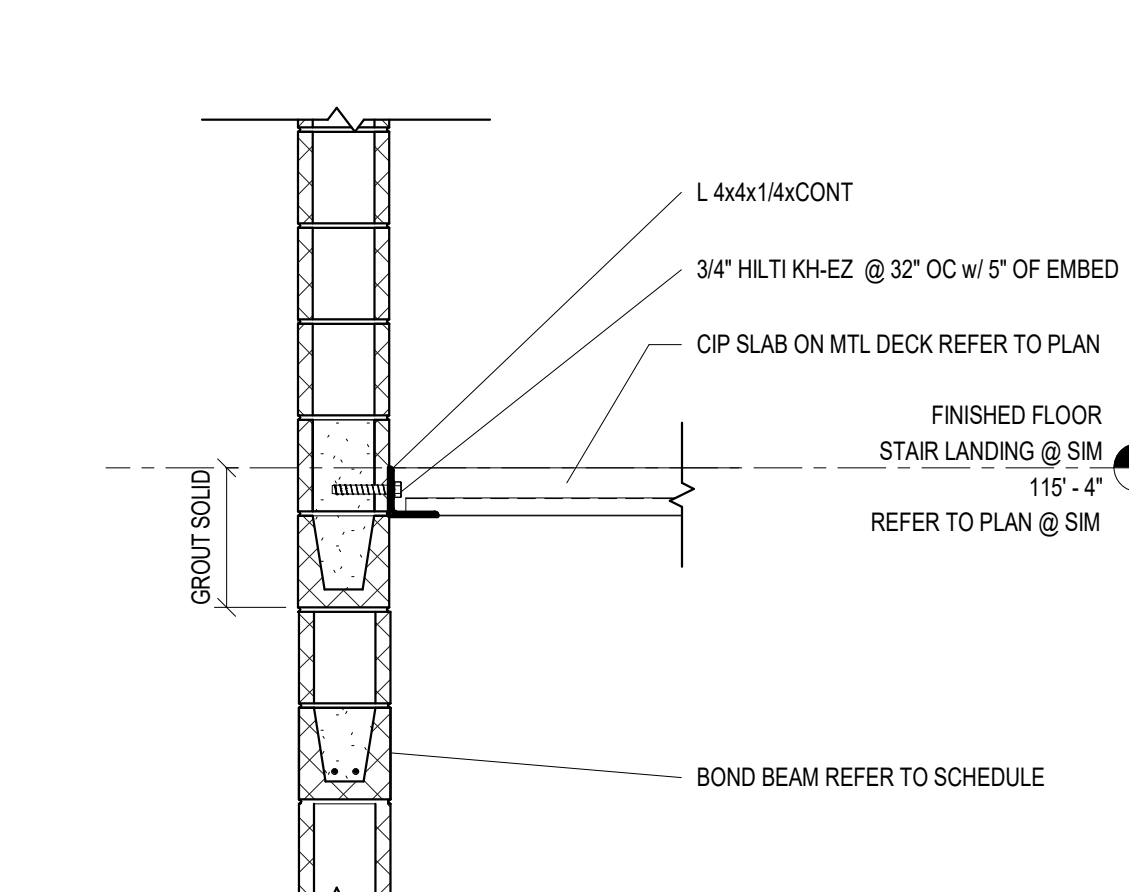
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3/4" = 1'-0" 0' 1'-4" 2'-8"



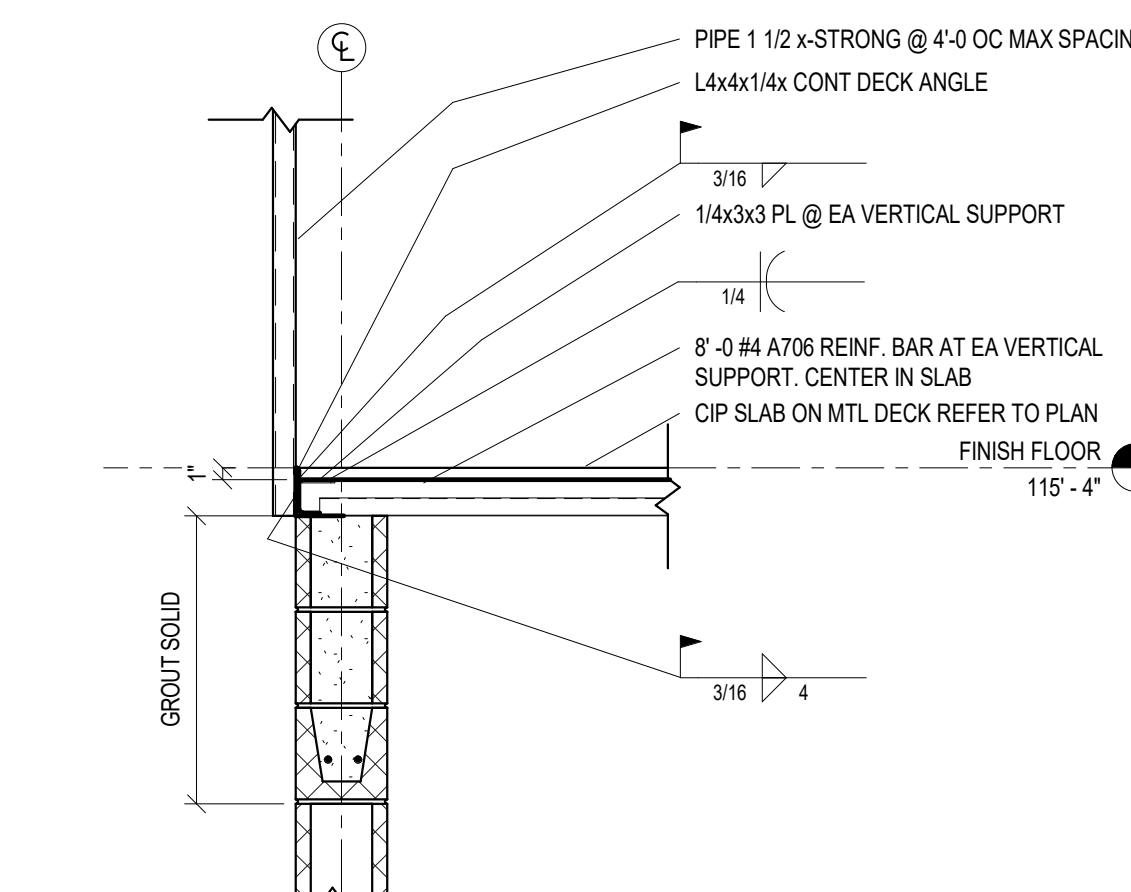
9

3/4" = 1'-0" 0' 1'-4" 2'-8"



10

3/4" = 1'-0" 0' 1'-4" 2'-8"



11

3/4" = 1'-0" 0' 1'-4" 2'-8"

2	Addendum 2	3/16/26
1	Addendum 1	3/10/25
#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD, COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

UPPER LEVEL FRAMING PLAN AND DETAILS

S2-2

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026

addendum

addendum no. 02

date: 3/16/2026

bid date: n/a

project name: Lewis Central Athletic Building

project no: 25612

This addendum is hereby made a part of the contract documents to the same extent as if it were originally included therein. Contract documents shall be considered modified or revised as hereinafter described.

mechanical items

1. Sheet F1-1 – FLOOR PLAN – FIRE SUPPRESSION
 - a. See attached sheet for revised fire suppression in TURF AREA 120.

electrical items

1. Sheet E1-0 – FLOOR PLAN - LIGHTING
 - a. Remove lighting and switching.
2. Sheet E1-1 – UPPER LEVEL – LIGHTING
 - a. Remove lighting and switching.
3. Sheet E2-0 – FLOOR PLAN – POWER
 - a. Add switches for mat hoists.
4. Sheet E2-1 – ROOF PLAN/UPPER LEVEL – POWER
 - a. Add connections for mat hoists.
5. Sheet E4-0 – ELECTRICAL SCHEDULES
 - a. Revise panel schedule.

end of addendum

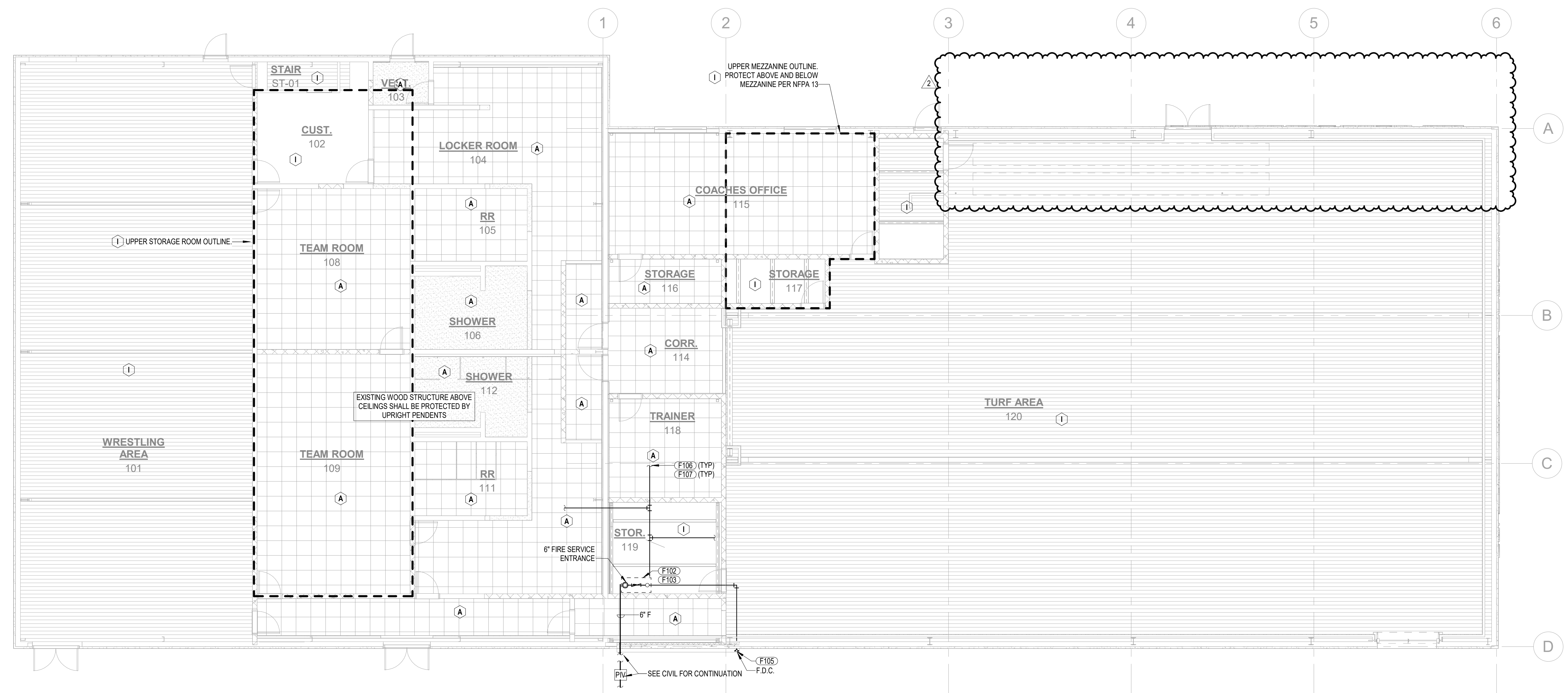
FIRE SPRINKLER HEAD DESIGNATION SCHEDULE (1)(2)			
PLAN TAG	CEILING TYPE	HEAD TYPE	HEAD COLOR
(A)	VARIES, SEE ARCH	CONCEALED FLAT PLATE	WHITE
(I)	EXPOSED STRUCTURE	UPRIGHT	ROUGH BRASS (WITH CAGES)

REMARKS:
 1. THIS PLAN IS FOR COORDINATION PURPOSES ONLY. REFER TO ARCHITECTURAL CEILING PLANS FOR SPECIFIC CEILING TYPES AND POTENTIAL OBSTRUCTIONS. PROVIDE ALL HEADS AS REQUIRED FOR DESIGN INTENT AND AN NFPA 13 COMPLIANT SYSTEM. SEE ADDITIONAL FIRE PROTECTION NOTES FOR ADDITIONAL INFORMATION.
 2. EXPOSED FIRE SPRINKLER PIPING IN THIS SPACE WILL BE PAINTED TO MATCH THE CEILING.

MECHANICAL GENERAL NOTES
 1. SEE MECHANICAL COVERSHEET ON M0-0 FOR NOTES APPLICABLE TO WORK ON THIS SHEET.

KEYNOTES
 F102 PROVIDE 6" FIRE WATER MAIN FOR FIRE SPRINKLER SERVICE. MAINTAIN CLEAR SPACE FOR FIRE SERVICE ENTRANCE.
 F103 PROVIDE FIRE SERVICE ENTRANCE WITH DOUBLE CHECK BACKFLOW PREVENTER, ISOLATION VALVES, CHECK VALVES, FLOW SWITCH, ETC. AS REQUIRED BY NFPA 13, THE AHJ, AND LOCAL CODES.
 F105 PROPOSED LOCATION FOR THE FIRE DEPARTMENT CONNECTION. VERIFY ACCEPTABLE LOCATION WITH AUTHORITY HAVING JURISDICTION.
 F106 WET PIPE SPRINKLER PIPING TO BUILDING. FINAL PIPE SIZING, ROUTING, AND HEAD LAYOUT BY FIRE SPRINKLER CONTRACTOR. COORDINATE LOCATION OF ALL SPRINKLER HEADS AND PIPING WITH ALL OTHER TRADES. IF CONFLICTS DO OCCUR SUCH THAT LIGHTS, DUCTWORK, OR CEILING SYSTEMS CANNOT BE INSTALLED DUE TO SPRINKLER PIPING INTERFERENCE, THE PIPING SHALL BE RELOCATED AT NO ADDITIONAL EXPENSE.
 F107 FIRE SPRINKLER ROUTING IS SCHEMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL AVAILABLE ROUTING PATHS. SIZES INDICATED ON PLANS ARE MAXIMUM ESTIMATES. FIRE SPRINKLER CONTRACTOR TO VERIFY ALL SIZING.

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#	Description	Date
2	Addendum 2	03/16/2026

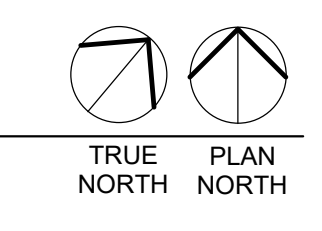
**LEWIS
 CENTRAL
 MIDDLE
 ATHLETIC
 BUILDING
 ADD/RENOV**

3820 HARRY LANGDON BLVD,
 COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL
 COMMUNITY
 SCHOOL DISTRICT

**FLOOR PLAN - FIRE
 SUPPRESSION**

1 FLOOR PLAN - FIRE PROTECTION
 1/8" = 1'-0" 0' 1' 8' 16"



MEI PROJECT NO. 25612

morrissey engineering inc
 mechanical | electrical | lighting | technology | sustainability
 4940 North 118th Street
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 Nebraska COA Number: CA-0835
 www.morrisseyengineering.com

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NOTE: do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or as site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

KEYNOTES

- E102 PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL CONTROL DEVICES.
- E103 PROVIDE 2" A WIRING IN 1/2" CONDUIT FROM FIRE ALARM CONTROL PANEL TO ELECTRONICALLY SUPERVISED POST INDICATOR VALVE. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.
- E104 PROVIDE EXTERIOR WEATHERPROOF NOTIFICATION APPLIANCE MOUNTED DIRECTLY ABOVE THE FIRE DEPARTMENT CONNECTION POINT. COORDINATE THE LOCATION OF THE FIRE DEPARTMENT CONNECTION POINT WITH THE FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.
- E105 DUCT SMOKE DETECTOR AND RELAY FOR HVAC UNIT SUPPLY FAN SHUTDOWN SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE A REMOTE KEYPED TEST STATION WITH VISUAL STATUS ANNUNCIATOR WHEN DUCT SMOKE DETECTOR IS INSTALLED IN A CONCEALED LOCATION GREATER THAN 10'-0" ABOVE FINISHED FLOOR OR WHEN DUCT SMOKE DETECTOR'S STATUS INDICATORS ARE NOT READILY VISIBLE. ALL FINAL WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.

PROJECT TEAM

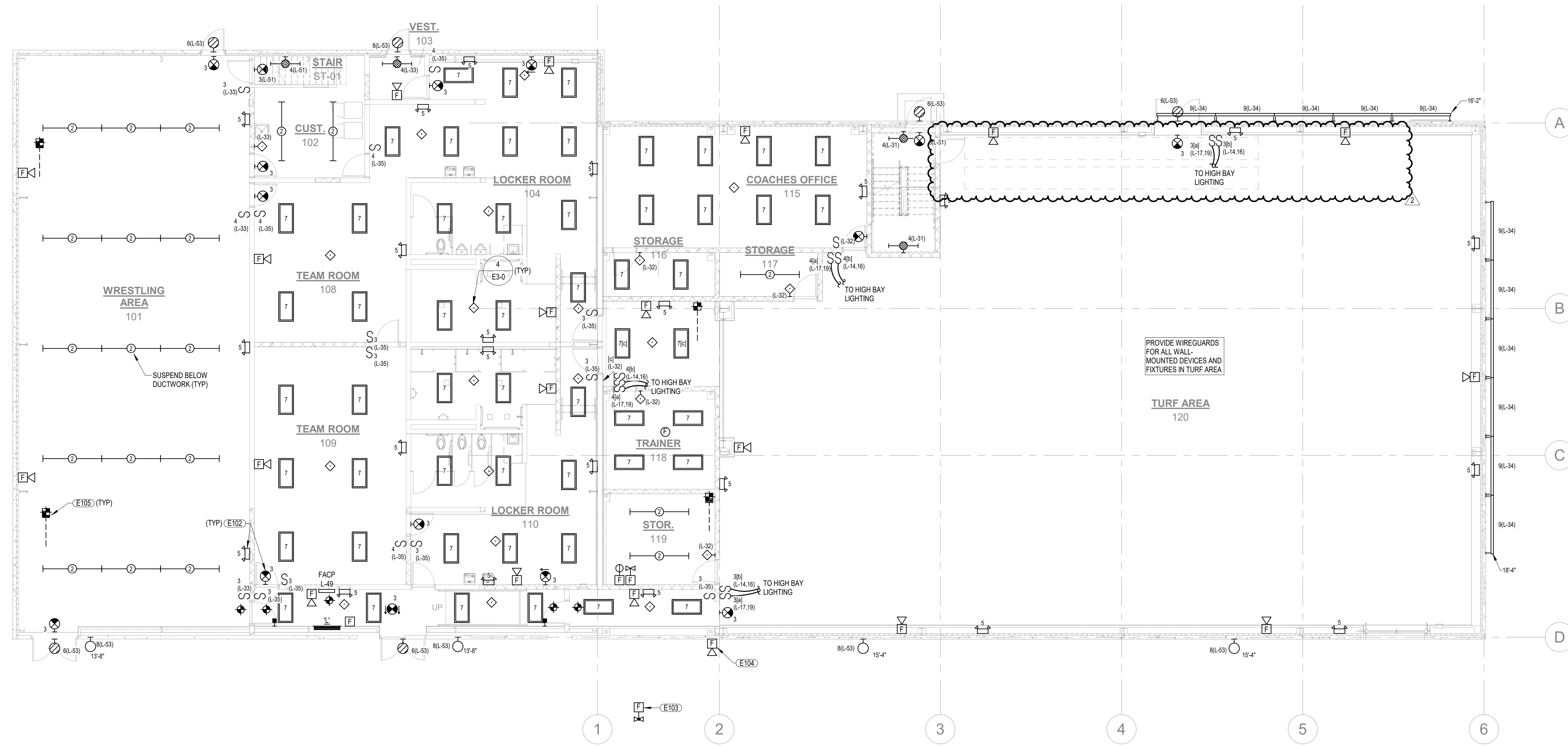
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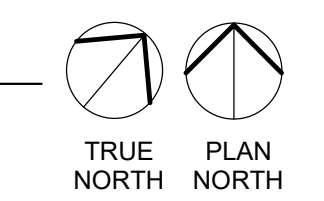
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1 FIRST FLOOR - LIGHTING
1/8" = 1'-0" 10' 1" 8' 16'



2	Addendum 2	03/16/2026
1	Addendum 1	03/10/2026
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ADD/RENOV**

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LEWIS CENTRAL
COMMUNITY
SCHOOL DISTRICT

FLOOR PLAN -
LIGHTING

MEI PROJECT NO. 25612
morrissey engineering inc
mechanical | electrical | lighting | technology | sustainability
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P: 402-681-4144
Nebraska COA Number: CA-0835
www.morrisseyengineering.com

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E1-0

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02-23-2026

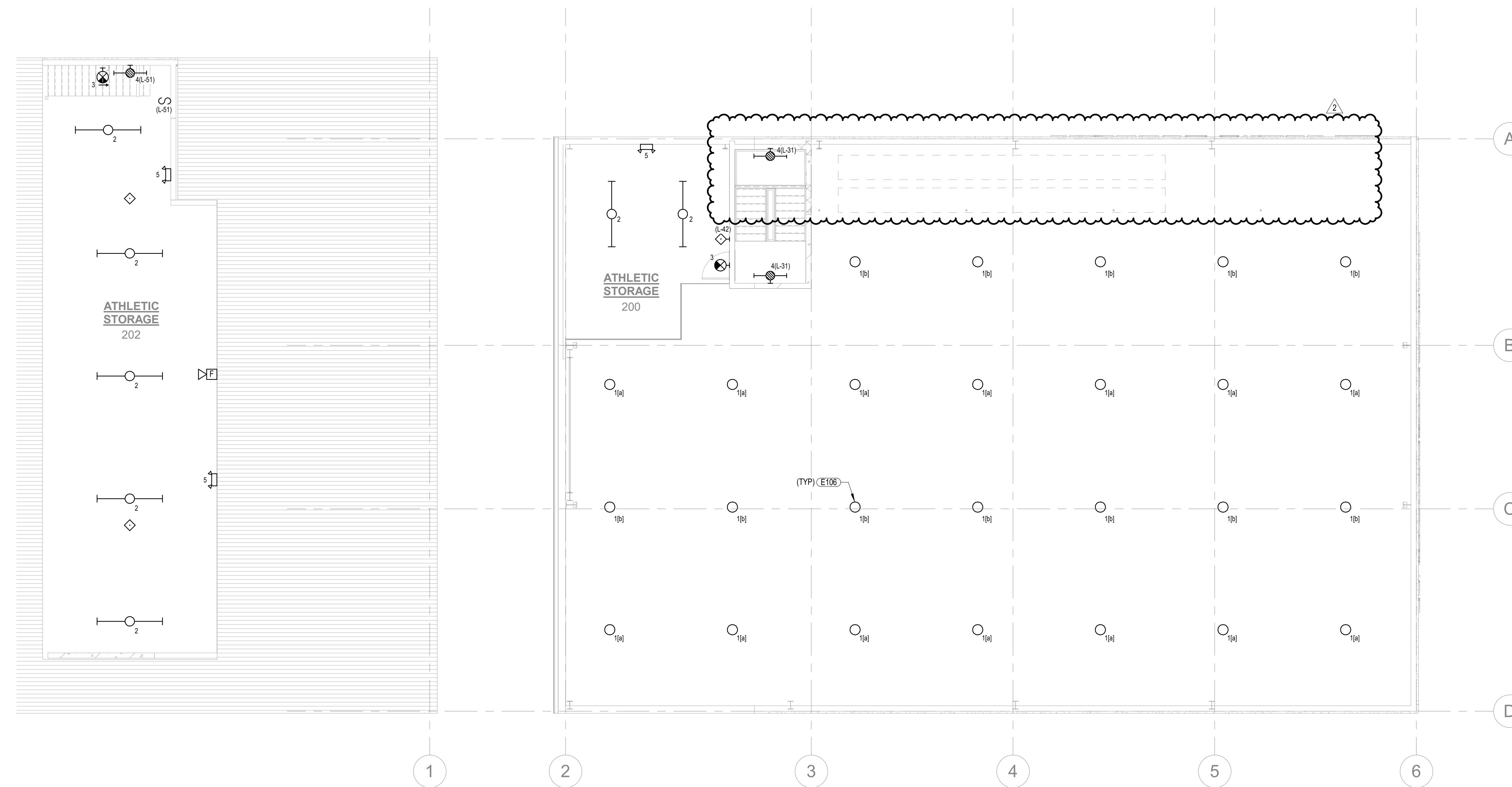
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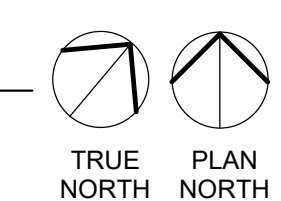
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1 UPPER LEVEL - LIGHTING
E1-1 1/8" = 1'-0" 0' 1' 8' 16'



#	Description	Date
2	Addendum 2	03/16/2026

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3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL
COMMUNITY
SCHOOL DISTRICT

UPPER LEVEL -
LIGHTING

MEI PROJECT NO. 25612

morrissey engineering inc
mechanical | electrical | lighting | technology | sustainability
4940 North 118th Street
Omaha, NE 68164
P: 402-891-4144
Nebraska COA Number: CA-0835
www.morrisseyengineering.com

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E1-1

LEFT BINDING EDGE
3/13/2026 11:42:07 AM

- KEYNOTES**
- E201 WEATHERPROOF GFCI SERVICE RECEPTACLE IS PROVIDED BY EQUIPMENT MANUFACTURER INTEGRAL WITH EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT AND FINAL CONNECTION TO SERVICE RECEPTACLE AS INDICATED.
 - E202 PROVIDE FINAL CONNECTION TO AUTOMATIC DOOR OPERATOR AND INTERLOCK WITH ALL ASSOCIATED PUSHBUTTONS AND MOTION SENSING APPURTENANCES. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
 - E203 PROVIDE FINAL CONNECTION TO HAND DRYER. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
 - E204 VERIFY VOLTAGE, PHASE, AMPERAGE, AND CONNECTION OF EXISTING ICE MAKER AND MAKE CHANGES TO WHAT IS SHOWN ON PLANS IF REQUIRED.
 - E207 LOCATE RECEPTACLE FOR ELECTRIC WATER COOLER SO THAT CORD AND PLUG ARE CONCEALED INSIDE OR BEHIND UNIT. PROVIDE 201 GFCI TYPE CIRCUIT BREAKER.
 - E208 COORDINATE LOCATION OF FRIGDES WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
 - E209 PROVIDE LOW VOLTAGE WIRING IN 1/2" CONDUIT BETWEEN MANUFACTURER PROVIDED KEYPED SWITCHES AND MAIN LETTER CONTROL ENCLOSURE. COORDINATE FINAL LOCATION OF SWITCHES WITH OWNERS REP PRIOR TO ROUGH-IN.

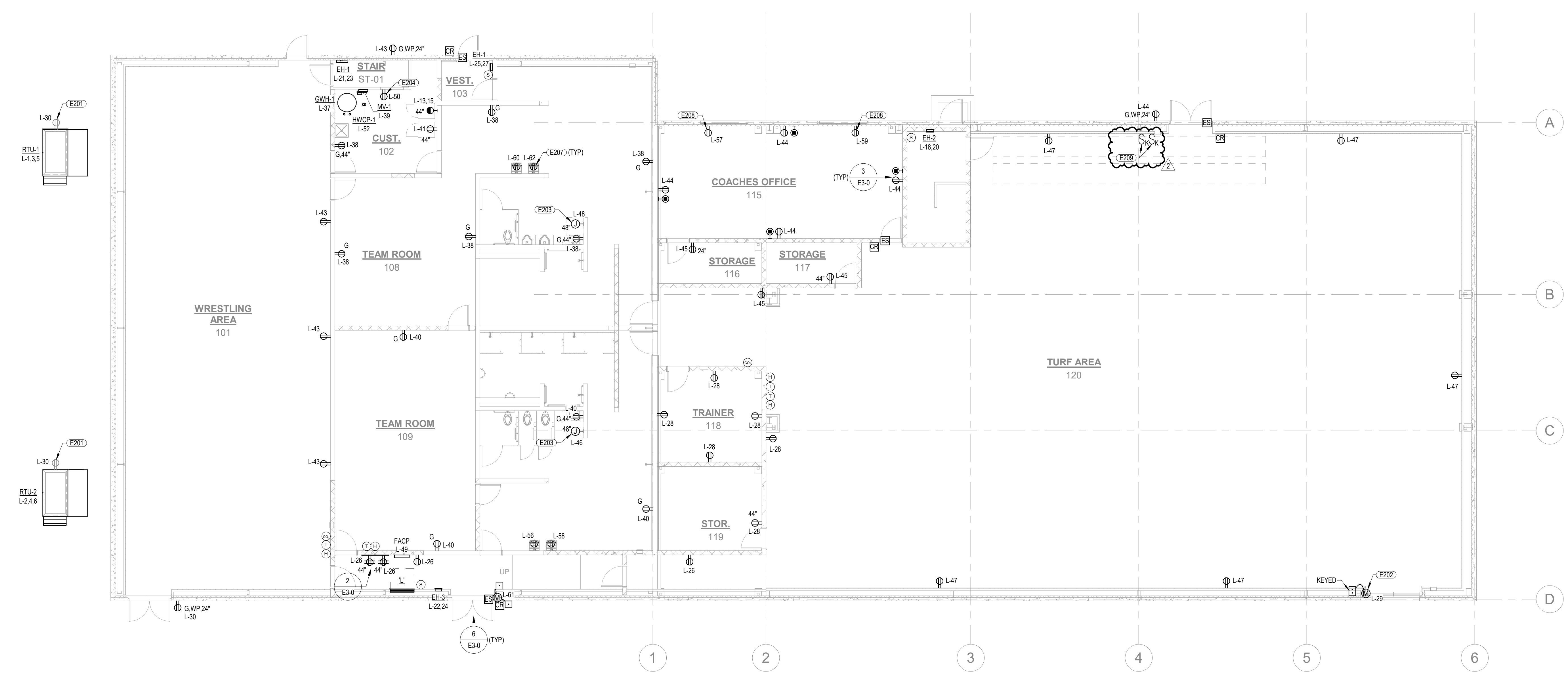
PROJECT TEAM

ARCHITECTURE + INTERIORS
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Omaha, NE 68114

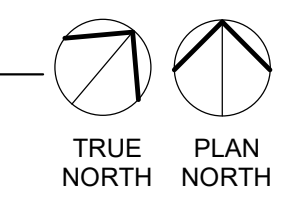
CIVIL ENGINEER
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LANGE STRUCTURAL ENGINEERING
1919 South 40th Street, Suite 302
Lincoln, NE 68506

MECHANICAL + ELECTRICAL ENGINEER
MORRISSEY ENGINEERING
4940 North 118th Street
Omaha, NE 68164



1 FIRST FLOOR - POWER
1/8" = 1'-0" | 0" | 8" | 16"



2	Addendum 2	03/16/2026
1	Addendum 1	03/10/2026
#	Description	Date

**LEWIS
CENTRAL
MIDDLE
ATHLETIC
BUILDING
ADD/RENOV**

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL
COMMUNITY
SCHOOL DISTRICT

FLOOR PLAN -
POWER

MEI PROJECT NO. 25612

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E2-0

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02-23-2026

KEYNOTES

- E201 WEATHERPROOF GFCI SERVICE RECEPTACLE IS PROVIDED BY EQUIPMENT MANUFACTURER INTEGRAL WITH EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUIT AND FINAL CONNECTION TO SERVICE.
- E210 PROVIDE FINAL CONNECTION TO AMT LIFTER. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

PROJECT TEAM

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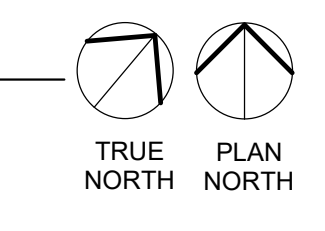
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1 ROOF PLAN/UPPER LEVEL - POWER
E2-1 1/8" = 1'-0" 0' 8' 16'



#	Addendum 2	03/16/2026
#	Description	Date

**LEWIS
CENTRAL
MIDDLE
ATHLETIC
BUILDING
ADD/RENOV**

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL
COMMUNITY
SCHOOL DISTRICT

ROOF PLAN/UPPER
LEVEL - POWER

MEI PROJECT NO. 25612

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E2-1

PROJECT TEAM

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LUMINAIRE SCHEDULE table with columns: MARK, DESCRIPTION, MANUFACTURER, CATALOG NUMBER, LIGHT SOURCE (SPEC, CCT, TYPE), ELECTRICAL (LOAD, VOLTS), FINISH, MOUNTING, ACCEPTABLE MANUFACTURERS, REMARKS.

GENERAL REQUIREMENTS:
A. CONTRACTOR SHALL VERIFY CATALOG NUMBERS AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING. NOTIFY ENGINEER OF ANY CONFLICTS WITH PROPOSED INSTALLATION.
LUMINAIRE SCHEDULE NOTES:
1. LUMINAIRE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY: ACUITY BRANDS, COOPER, CURRENT, SIGNIFY, CREE LIGHTING.
2. LUMINAIRE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY: ELLIPTIPAR
3. REFER TO PLANS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE LUMINAIRES ACCORDINGLY. PROVIDE DIRECTIONAL CHEVRON ARROWS AS INDICATED ON PLANS.
4. MOUNT FROM STRUCTURE WITH 2' CORD. FIXTURES SHALL FOLLOW THE LINE OF SLOPE OF THE STRUCTURE.
5. INSTALL THIS LUMINAIRE'S REMOTE LOW VOLTAGE LIGHTING TRANSFORMER UP HIGH ON THE WALL IN ATHLETIC STORAGE 201 AND PROVIDE FINAL CONNECTION TO LUMINAIRE. THE LENGTH OF CONDUCTORS BETWEEN REMOTE LOW VOLTAGE LIGHTING TRANSFORMER AND ASSOCIATED LUMINAIRE SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM CONDUCTOR LENGTH. PROVIDE DIGITAL ASTRONOMICAL TIMELOCK AND DIMMER SWITCH. RUN CIRCUIT THROUGH TIMELOCK CONTROLS AND DIMMER SWITCH. FINE TUNE LIGHT OUTPUT WITH OWNER AND ARCHITECT.

ELECTRIC HEAT SCHEDULE table with columns: MARK, MANUFACTURER, CATALOG NUMBER, WATTS, VOLTAGE, PHASE, REMARKS.

NOTES:
1. PROVIDE WITH INTEGRAL SERVICE DISCONNECT AND THERMOSTAT. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. HEATER IS FURNISHED FROM FACTORY WITH SELECTABLE WATTAGE OUTPUT. CONNECT AT WATTAGE SCHEDULED.

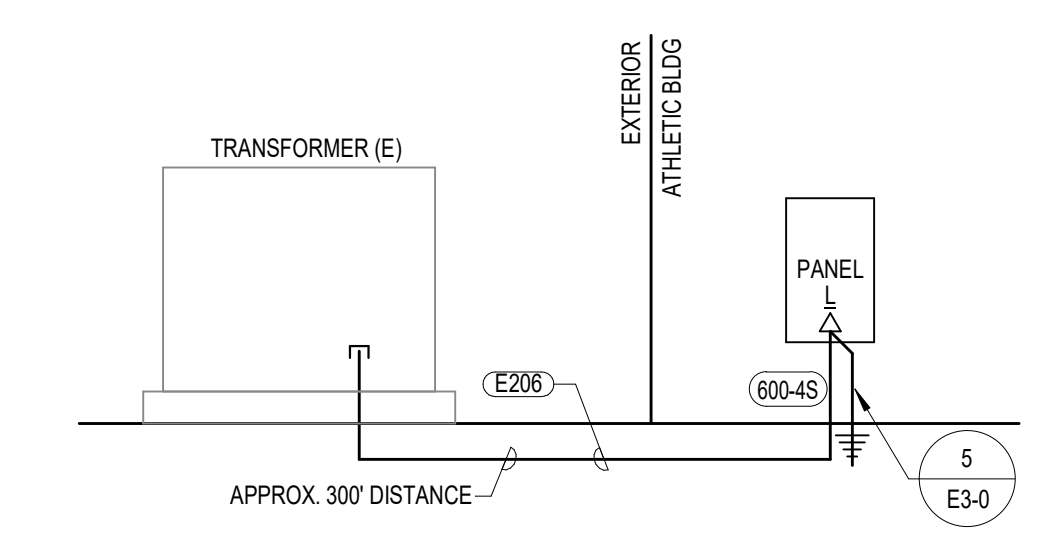
MECHANICAL EQUIPMENT CONNECTION SCHEDULE table with columns: PLAN TAG, VOLTAGE, PHASE, DISCONNECT, WIRE AND CONDUIT, REMARKS.

NOTES:
1. CONNECT MOTORIZED DAMPER AT SAME VOLTAGE AS FAN AND INTERLOCK WITH FAN.

LIGHTING PANEL SCHEDULE table with columns: Circuit Description, OPT, R, P, CKT, A, B, C, CKT, P, R, OPT, Circuit Description. Includes notes on options and shunt trip breakers.

COPPER FEEDER SCHEDULE table with columns: FEEDER, WIRE AND CONDUIT.

KEYNOTES
E206 CONTRACTOR TO PERFORM NEW UNDERGROUND SERVICE WORK WHILE PARKING LOT IS REMOVED (SEPARATE PROJECT). COORDINATE SCHEDULING WITH OWNERS REPRESENTATIVE.



1 ELECTRICAL RISER DIAGRAM NOT TO SCALE

Table with columns: #, Description, Date. Includes Addendum 2 (03/16/2026) and Addendum 1 (03/10/2026).

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD, COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ELECTRICAL SCHEDULES

E4-0

CONSTRUCTION DOCUMENTS
BODM NO. 5551-05
02-23-2026

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