LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD, COUNCIL BLUFFS, IA 51503

BCDM NO: 5551-05

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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

PROJECT LOCATION

VICINITY MAP

NOT TO SCALE

SCHEDULE OF DRAWINGS

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E2-0 FLOOR PLAN - POWER
E2-1 ROOF PLAN / UPPER LEVEL - POWER
E3-0 ELECTRICAL DETAILS
E4-0 ELECTRICAL SCHEDULES

LICENSED PROFESSIONAL ARCHITECT
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.

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PRINTED NAME: GREGORY S. STIEREN
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MY LICENSE RENEWAL DATE IS JUNE 30: 2027
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JAMES F. LANGE
20084
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2/23/26

JAMES F LANGE, SE

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

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SIGNATURE
Caleb M. Snyder
PRINTED OF TYPED NAME

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2026

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LICENSED PROFESSIONAL ENGINEER
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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.

02/23/2026
(date)

My license renewal date is 12/31/2027

Pages or sheets covered by this seal:
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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.

02/23/2026
(date)

My license renewal date is 12/31/2027

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

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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

COVER SHEET

G0-0

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

LEFT BINDING EDGE

2/24/2026 1:26:48 PM

CODE REVIEW ANALYSIS

APPLICABLE 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

TYPE OF CONSTRUCTION:

NEW & EXISTING, TYPE 'V-B'

USE & OCCUPANCY CLASSIFICATION:

'A-4' OCCUPANCY
14,775 SQUARE FEET TOTAL (6,375 EXIST + 8,400 ADDITION)
BUILDING WILL BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM

STRUCTURAL FIRE PROTECTION:

CONSTRUCTION CLASSIFICATION - 'V-B' (TABLE 601)
RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)

STRUCTURAL FRAME	0 HOURS
BEARING WALLS EXTERIOR	0 HOURS
BEARING WALLS INTERIOR	0 HOURS
NON-BEARING WALLS EXTERIOR	0 HOURS
NON-BEARING WALLS INTERIOR	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
ROOF CONSTRUCTION	0 HOURS
EXTERIOR OPENINGS * (TABLE 602)	0 HOURS*

PASSIVE AND ACTIVE FIRE SAFETY FEATURES:

PASSIVE FIRE SAFETY FEATURES
CORRIDOR WALLS ARE NOT REQUIRED TO BE RATED (PER TABLE 1020.1)

AUTOMATIC SPRINKLER SYSTEMS
PROVIDED: NFPA 13 AND AS REQUIRED BY 903.2.23

FIRE EXTINGUISHERS - F.E. (INTERNATIONAL FIRE CODE)
MAXIMUM DISTANCE TO FIRE EXTINGUISHER = 75'-0"

FIRE ALARM & DETECTION SYSTEMS
PER 2015 INTERNATIONAL FIRE CODE SECTION 907.2.3

BASE HEIGHTS AND AREAS:

GENERAL BUILDING HEIGHT AND AREAS LIMITATIONS (TABLE 504.3 AND 506.2):

TYPE 'II-B' CONSTRUCTION WITH 'A-4' OCCUPANCY:

HEIGHT MODIFICATIONS (TABLE 504.3):

MAXIMUM BUILDING HEIGHT IS 75'-0" > 31'-0" ACTUAL HEIGHT

AREA MODIFICATIONS (TABLE 506.2):

BASE ALLOWABLE AREA FOR 'A-4' OCCUPANCY IN TYPE 'V-B' CONSTRUCTION IS 18,000 SF FOR A SPRINKLERED, MAXIMUM ONE STORY BUILDING.

MAXIMUM AREA PER STORY = 18,000 SF > 14,775 SF ACTUAL AREA

EXITING ANALYSIS OF NEW CONSTRUCTION ZONE 1:

OCCUPANT LOAD (PER TABLE 1004.1.2) = '628' OCCUPANT MAXIMUM

3 EXITS REQUIRED < 5 EXITS PROVIDED

TOTAL WIDTH REQUIRED (PER SECTION 1005) = .2 INCHES X 627 = 125.4 INCHES

2 (32") + 3 (68") = 268" PROVIDED > 125.4" REQUIRED

MAXIMUM EXIT DISTANCE ALLOWED (PER TABLE 1017.2) =
250'-0" ALLOWED > 108'-0" PROVIDED

MAXIMUM COMMON PATH OF TRAVEL ALLOWED (PER TABLE 1006.2.1) =
75'-0" ALLOWED > 73'-0" PROVIDED

MAXIMUM DEAD END CORRIDOR DISTANCE (PER 1020.4) =
20'-0" ALLOWED > 19'-6" PROVIDED

PLUMBING FIXTURE COUNT CALCULATIONS:

TOTAL NUMBER OF OCCUPANTS AT ALL AREAS = '120' OCCUPANTS
120 / 2 = '60' EACH MALE AND FEMALE

PLUMBING FIXTURE REQUIREMENTS FOR 'A-4' OCCUPANCY
(PER 2024 UNIFORM PLUMBING CODE, TABLE 422.1)

MEN FIXTURES: 60 OCCUPANTS

WATER CLOSETS (1: 1 - 100)	1 REQUIRED	1 PROVIDED
URINALS (1: 1 - 100)	1 REQUIRED	2 PROVIDED
LAVATORIES (1: 1 - 200)	1 REQUIRED	1 PROVIDED

WOMEN FIXTURES: 60 OCCUPANTS

WATER CLOSETS (3: 51 - 100)	3 REQUIRED	3 PROVIDED
LAVATORIES (1: 1 - 100)	1 REQUIRED	1 PROVIDED

GENERAL FIXTURES: 120 OCCUPANTS

DRINKING FOUNTAINS (1: 1 - 250)	1 REQUIRED	4 PROVIDED
SERVICE SINKS	1 REQUIRED	1 PROVIDED

NFPA LIFE SAFETY CODE 2015 - CLASSIFICATION PER CHAPTER 43:

MODIFICATION (Section 43.5) & ADDITION (Section 43.6)

2018 INTERNATIONAL EXISTING BUILDING CODE

TYPE OF ALTERATION

EXISTING CONSTRUCTION, *ALTERATION LEVEL 3*

ALL WORK TO COMPLY WITH CHAPTERS 7, 8 & 9 OF 2018 IEBC

SPECIAL USE AND OCCUPANCY - SECTION 902

BUILDING ELEMENTS AND MATERIALS - SECTION 903

THE BUILDING IS TO RECEIVE NEW FINISHES THROUGHOUT, REFERENCE DETAILS *1 & 2/G0-1 - CODE REVIEW PLAN, THIS SHEET.*

ALL NEW BUILDING ELEMENTS AND MATERIALS TO COMPLY WITH CHAPTER 9 OF 2018 INTERNATIONAL BUILDING CODE AND SECTIONS 702, 802 AND 903, 2018 IEBC.

FIRE PROTECTION - SECTION 904

ENTIRE BUILDING TO BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM AND COMPLY WITH SECTIONS 703, 803 AND 904, 2018 IEBC.

CARBON MONOXIDE DETECTION - NOT APPLICABLE TO 'A' OCCUPANCY

MEANS OF EGRESS - SECTION 905

THE BUILDING'S EXISTING MEANS OF EGRESS *WILL NOT BE REDUCED* AND WILL COMPLY WITH SECTIONS 704, 805 AND 905, 2018 IEBC.

STRUCTURAL - SECTION 906

NO NEW GRAVITY OR LATERAL LOADS ARE BEING ADDED TO THE EXISTING BUILDING AND WILL COMPLY WITH SECTIONS 706, 806 AND 906, 2018 IEBC.

ENERGY CONSERVATION - SECTION 907

THE BUILDING WILL COMPLY WITH 2018 INTERNATIONAL ENERGY CONSERVATION CODE AND SECTIONS 707, 810 AND 907, 2018 IEBC.

ELECTRICAL

THE BUILDING WILL RECEIVE NEW FIXTURES AND EQUIPMENT AND COMPLY WITH NFPA 70 AND SECTION 807, 2018 IEBC.

MECHANICAL

THE BUILDING'S RECONFIGURED SPACES WILL RECEIVE MECHANICAL VENTILATION AND COMPLY WITH 2012 INTERNATIONAL MECHANICAL CODE AND SECTION 808, 2018 IEBC.

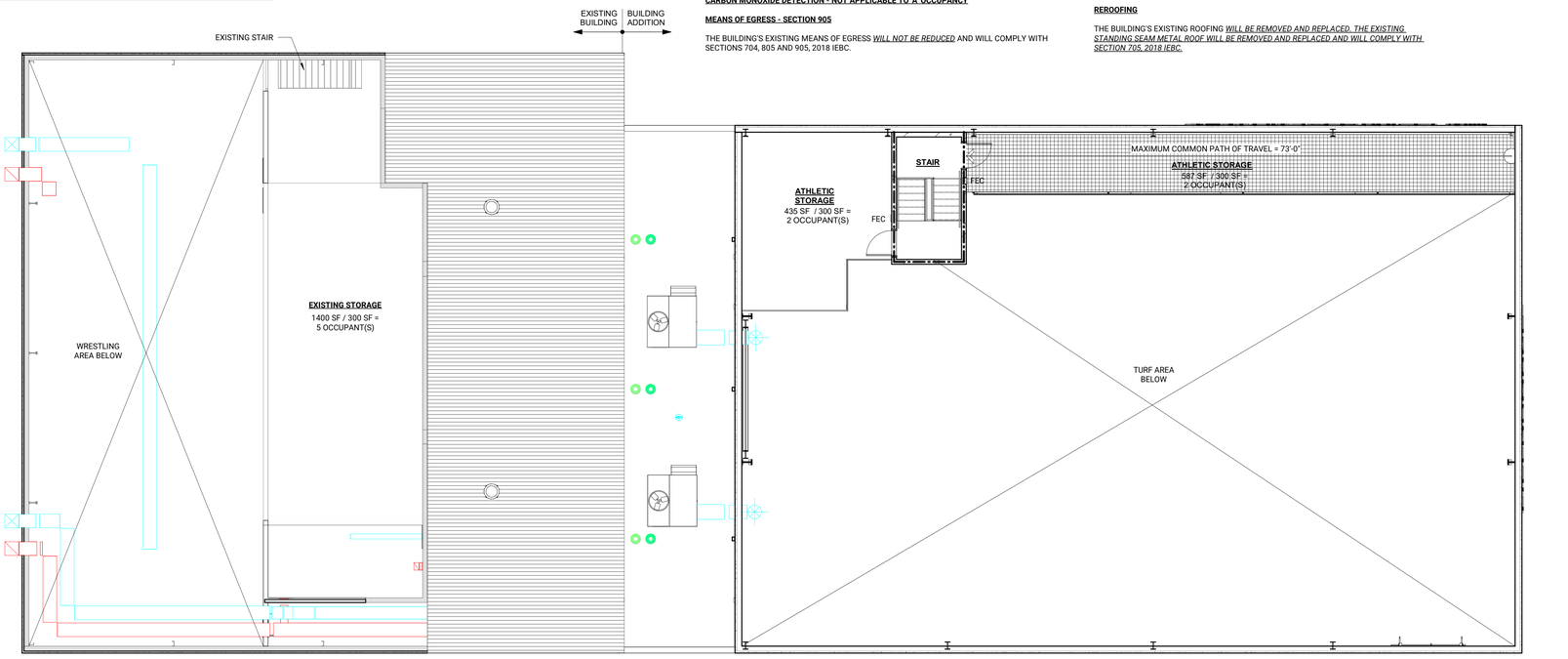
PLUMBING

THE BUILDINGS OCCUPANCY *WILL NOT BE INCREASED BY MORE THAN 20%, THEREFORE NOT REQUIRE ADDITIONAL FIXTURES PER SECTION 809, 2018 IEBC.*

FIXTURE COUNTS WILL COMPLY WITH 2024 UNIFORM PLUMBING CODE TABLE 422.1.

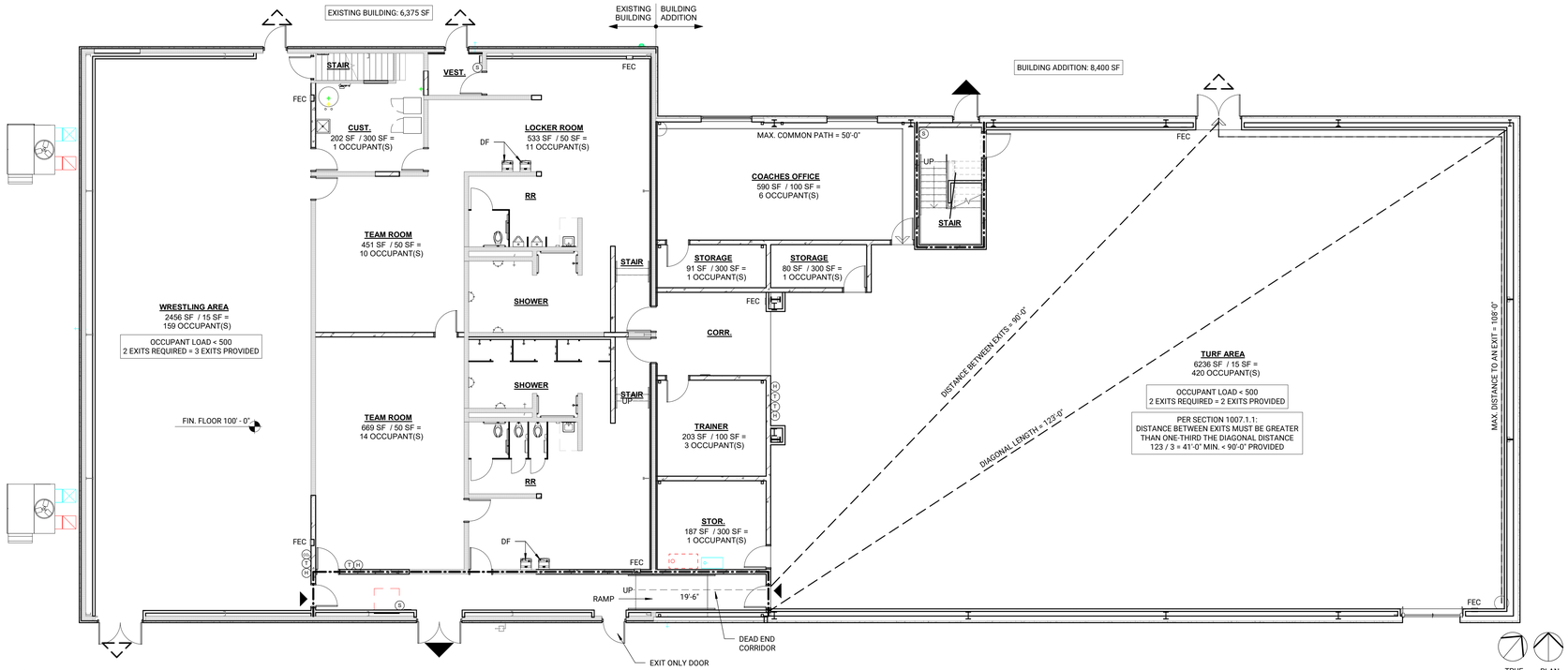
REROOFING

THE BUILDING'S EXISTING ROOFING *WILL BE REMOVED AND REPLACED. THE EXISTING STANDING SEAM METAL ROOF WILL BE REMOVED AND REPLACED AND WILL COMPLY WITH SECTION 705, 2018 IEBC.*



TRUE NORTH PLAN NORTH

2 G0-1 CODE REVIEW PLAN - UPPER LEVEL
1/8" = 1'-0" 0' 8' 16'



TRUE NORTH PLAN NORTH

1 G0-1 CODE REVIEW PLAN - MAIN LEVEL
1/8" = 1'-0" 0' 8' 16'

CODE REVIEW LEGEND:

- ONE HOUR FIRE WALL PER IBC 705 FIRE DOOR AND FIRE SHUTTER ASSEMBLY IN THESE WALLS TO BE RATED PER IBC 715.
- NFPA 101: 14.3.6 & 8.2.4 COMPLIANT SMOKE PARTITION
- EXIT
- EXIT ACCESS
- EXIT - DIRECT EXITING TO EXTERIOR

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#	Description	Date

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3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

CODE REVIEW PLANS

G0-1

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

LEFT BINDING EDGE

EXISTING

AIR	
BUILDING OVERHANG	
CABLE	
CONDUIT	
CONSTRUCTION FENCE	
CREEK FLOW LINE	
CREEK FLOW DIRECTION	
DRAIN TILES	
ELECTRIC	
EFF LINE	
FENCE	
FENCE – BARBED WIRE	
FENCE – STEEL	
FENCE – WIRE	
FENCE – WOOD	
FIBER OPTICS	
FLOOD PLAIN	
FLOW ARROW	
FLOW LINE	
FORCE MAIN	
GAS	
GRAVEL AND DIRT EDGE	
GUARD RAIL	
IRRIGATION	
MAIN DRAIN LINE	
NON POTABLE WATER	
OIL	
OIL AND GAS	
OVERHEAD POWER	
OVERHEAD TELEPHONE	
OVERHEAD UTILITY	
POWER	
RAILROAD TRACKS	
RAW WATER	
RECIRCULATION	
ROOF DRAIN	
SANITARY SEWER	
STORM SEWER	
STREAM	
TELEPHONE	
UNDER DRAIN	
UNIDENTIFIED UTILITY	
UTILITY	
VEGETATION LINE	
WATER	
WATERS EDGE	

RECORD

AIR	
CABLE	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
UNDERGROUND POWER	
UTILITY	
WATER	

SANITARY CLEAN OUT	
SANITARY MANHOLE	
SEWER WARNING SIGN	
SEPTIC TANK	
AREA INLET ROUND	
AREA INLET SQUARE	
GRATE INLET	
GRATE INLET W/ HOOD	
STORM MANHOLE	
STORM PIPE END	
4" CURB INLET	
CURB INLET LEFT	
CURB INLET RIGHT	
DOWN SPOUT/ROOF DRAIN	
FLARED END SECTION	
CONTINUE SYMBOL	
CABLE MANHOLE	
CABLE WARNING SIGN	
CABLE PEDESTAL	
CABLE PULLBOX	
LIGHT POLE	
YARD LIGHT	
GROUND LIGHT	
BLDG MOUNTED LIGHT	
STREET LIGHT	
POWER POLE	
H STRUCTURE	
H STRUCTURE W/ TRANSFORMER	
ELECTRIC MANHOLE	
ELECTRIC METER	
ELECTRIC PEDESTAL	
ELECTRIC PULLBOX	
ELECTRIC TRANSFORMER	
ELECTRIC VAULT	
ELECTRIC WARNING SIGN	
GUY	
FIBER OPTIC MANHOLE	
FIBER OPTIC PULL BOX	
FIBER OPTIC VAULT	
FIBER OPTIC PEDESTAL	
FIBER OPTIC WARNING SIGN	
FUEL TANK	
FUEL CAP	
FUEL PUMP	
GAS CURB STOP	
GAS MANHOLE	
GAS METER	
GAS VALVE	
GAS WARNING SIGN	
TELEPHONE MANHOLE	
TELEPHONE PEDESTAL	
TELEPHONE PULLBOX	
TELEPHONE WARNING SIGN	
UNIDENTIFIED MANHOLE	
UNIDENTIFIED UTILITY PEDESTAL	
UNIDENTIFIED VALVE	
UNIDENTIFIED PULLBOX	
WATER CURB STOP	
WATER MANHOLE	
WATER METER	
WATER VALVE	

WATER WARNING SIGN	
AUTO SPRINKLER BUILDING	
FIRE HYDRANT	
POST INDICATOR VALVE	
YARD HYDRANT	
IRRIGATION CONTROL VALVE	
IRRIGATION SPRINKLER HEAD	
WELL	
MONITORING WELL	
TABLE	
SATELLITE DISH	
MAILBOX	
MISCELLANEOUS POINT	
VENT	
TOWER	
PROPANE TANK	
FLAGPOLE	
AIR CONDITIONING UNIT	
DRINKING FOUNTAIN	
BBQ PIT	
BENCH	
BOLLARD	
BORE HOLE	
COLUMN ROUND	
COLUMN SQUARE	
VACUUM	
TREE DECIDUOUS	
TREE CONIFEROUS	
BUSH	
BOULDER	
ARROW LEFT	
ARROW RIGHT	
ARROW STRAIGHT	
STRIPING "ONLY"	
BICYCLE STRIPING	
HANDICAP SYMBOL	
TRAFFIC SIGNAL	
TRAFFIC SIGNAL PEDESTAL	
TRAFFIC SIGNAL PULL BOX	
PARKING METER	
SIGN	
STOP SIGN	
YIELD SIGN	
RR CROSSING ARM	
BENCHMARK	
TEMPORARY BENCHMARK	
ROW MARKER	
CONTROL POINT	
MONUMENT FOUND	
MONUMENT SET	
WITNESS CORNER	
COMPUTED CORNER	
SECTION CORNER TIE	
SECTION CORNER	

PROPOSED

UTILITY

AIR	
CABLE	
CONDUIT	
CONSTRUCTION FENCE	
DRAIN TILES	
FENCE	
FENCE – BARBED WIRE	
FENCE – STEEL	
FENCE – WIRE	
FENCE – WOOD	
FIBER OPTICS	
FLOW ARROW	
FORCE MAIN [SINGLE LINE]	
FORCE MAIN [DOUBLE LINE]	8"FM
GAS	
GRAVEL AND DIRT EDGE	
IRRIGATION	
LIMITS OF CONSTRUCTION	
NON POTABLE WATER	
OIL	
OIL AND GAS	
POWER	
RAW WATER	
ROOF DRAIN	
SANITARY SEWER [SINGLE LINE]	
SANITARY SEWER [DOUBLE LINE]	8"SS
SANITARY SEWER SERVICE	8"SS
SANITARY SERVICE RISER	8"SS
STORM SEWER [SINGLE LINE]	
STORM SEWER [DOUBLE LINE]	18"ST
TELEPHONE	
UNDER DRAIN	
UTILITY	
WATER [SINGLE LINE]	
WATER [DOUBLE LINE]	6"W
DROP MANHOLE	
SLOTTED UNDER DRAIN	8"DR
WATER	2"W
AIR TAP	
FIRE HYDRANT	
TEE	
BEND	
REDUCER	
VALVE GATE	
MANHOLE	
FLARED END SECTION	
CURB INLET	
AREA INLET	
GRATE INLET	

GRADING

CONTOUR	1100
FUTURE CONTOUR	1100
EXISTING CONTOUR	1100
WETLANDS AREA NOT TO BE DISTURBED	
FILL AREA	
STABILIZED ACCESS ROAD	
VEGETATED BUFFER STRIP	
SPOT ELEVATION	1000.00
LIMITS OF DISTURBED AREA	LDA
FLOOD PLAIN	FP

DRAINAGE

100 YEAR	100 YR
500 YEAR	500 YR
2 YEAR EGL	2YR EGL
5 YEAR EGL	5YR EGL
10 YEAR EGL	10YR EGL
100 YEAR EGL	100YR EGL
2 YEAR HGL	2YR HGL
5 YEAR HGL	5YR HGL
10 YEAR HGL	10YR HGL
100 YEAR HGL	100YR HGL
FLOOD WAY	FLDWY
RIDGE	
FLOW PATH	
DRAINAGE AREA NAME	
DRAINAGE AREA RUNOFF COEFFICIENT	AC. C=
DRAINAGE BASIN DELINEATION	
DRAINAGE SUB BASIN DELINEATION	
TIME OF CONCENTRATION DRAINAGE PATH	GRA 254 @ 7.85%

EROSION CONTROL

EARTH BERM	EB
EARTH DIVERSION	ED
EROSION CONTROL LOG	ECL
FILL DIVERSION	FD
INTERCEPTOR DIKE	ID
INTERCEPTOR SWALE	
LEVEL SPREADER	
LEVEL TERRACE	LT
SEDIMENT CONTROL LOG	SCL
SILT FENCE	SF
STRAW WATTLE	SW
TEMPORARY DITCH	TD
BIORETENTION GARDEN	
WATTLE	W
VEHICLE TRACKING PAD	
TEMPORARY SEEDING	
STRAW HAY BALE	STB
SLOPE PROTECTION	SP
PERMANENT SEEDING	
INLET PROTECTION	IP

PAVEMENT

PAVEMENT	
PCC CURB AND GUTTER	
RETAINING WALL	
X" PCC PAVEMENT	
ASPHALT PAVEMENT	
SIDEWALK PAVEMENT	
PAVING BARRICADE	
BUILDING	
PARKING STALL COUNT	15
FLOW LINE	
JOINT A	
JOINT B	
JOINT D	
JOINT E	
JOINT F	
JOINT G	
JOINT H	
JOINT JLC–K	
JOINT JLH–S	

PLATTING

PROPERTY/BOUNDARY LINE	
PROPOSED LOT LINE	
ADJACENT LOT LINE	
SECTION LINE	
EASEMENT	
MONUMENT SET	△
MONUMENT FOUND	●
SECTION CORNER	◔
COMPUTED CORNER	☆
WITNESS CORNER	□

GENERAL ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT	(R)	RECORD DIMENSION
ASPH	ASPHALT	RB	REBAR
BC	BACK OF CURB	RCP	REINFORCED CONCRETE PIPE
BOSW	BACK OF WALK	ROW	RIGHT OF WAY
BP	BOTTOM OF PIPE	S	SOUTH
BW	BOTTOM OF WALL	SF	SQUARE FEET
(C)	COMPUTED DIMENSION	SS	SANITARY SEWER
CATV	CABLE TELEVISION	ST	STORM
CF	CUBIC FOOT	STA	STATION
CL	CENTERLINE	STD	STANDARD
CMP	CORRUGATED METAL PIPE	SW	SIDEWALK
CONC	CONCRETE	T	TELEPHONE
CP	CONTROL POINT	TC	TOP OF CURB
CPP	CORRUGATED PLASTIC PIPE	TOF	TOP OF FOUNDATION
CY	CUBIC YARD	TOG	TOP OF GRADE
DIA	DIAMETER	TOI	TOP OF ISLAND
DIP	DUCTILE IRON PIPE	TP	TOP OF PAVEMENT
E	EAST	TS	TOP OF SLAB
ELEV	ELEVATION	TW	TOP OF WALL
EOG	EDGE OF GRAVEL	TYP.	TYPICAL
FES	FLARED END SECTION	VERT	VERTICAL
FF	FINISH FLOOR ELEVATION	W	WEST
FG	FINISHED GRADE	WQCV	WATER QUALITY CAPTURE VOLUME
FH	FIRE HYDRANT	YPC	YELLOW PLASTIC CAP
FL	FLOWLINE	TP	TOP OF PAVEMENT
G	GUTTER	TS	TOP OF SLAB
GB	GRADE BREAK	TW	TOP OF WALL
HP/LP	HIGH POINT/LOW POINT	TYP.	TYPICAL
HORIZ	HORIZONTAL	VERT	VERTICAL
HPC	HORIZONTAL POINT OF CURVATURE		
HPI	HORIZONTAL POINT OF INTERSECTION		
HPT	HORIZONTAL POINT OF TANGENCY		
HPCC	HORIZONTAL POINT OF COMPOUND CURVATURE		
HPRC	HORIZONTAL POINT OF REVERSE CURVATURE		
IE	INVERT ELEVATION		
LF	LINEAR FEET		
(M)	MEASURED DIMENSION		
MH	MANHOLE		
ME	MATCH EXISTING		
N	NORTH		
N.T.S.	NOT TO SCALE		
OT	OPEN TOP PIPE		
(P)	PLAT DIMENSION		
PL	PROPERTY LINE		
PT	PINCHED TOP PIPE		
P.V.C.	POLYVINYL CHLORIDE		
PVC	POINT OF VERTICAL CURVE		
PVI	POINT OF VERTICAL INTERSECTION		
PVT	POINT OF VERTICAL TANGENCY		
X 1020.12	SPOT ELEVATION		

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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

LEGEND

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TEL: 913.829.1199

DESIGNER / DRAFTER
AUSTIN HOOFLICKE HOFERER
REVIEWER
CALEB M. SNIDER
PROJECT NUMBER
015504.01-100
DATE
1/5/2026

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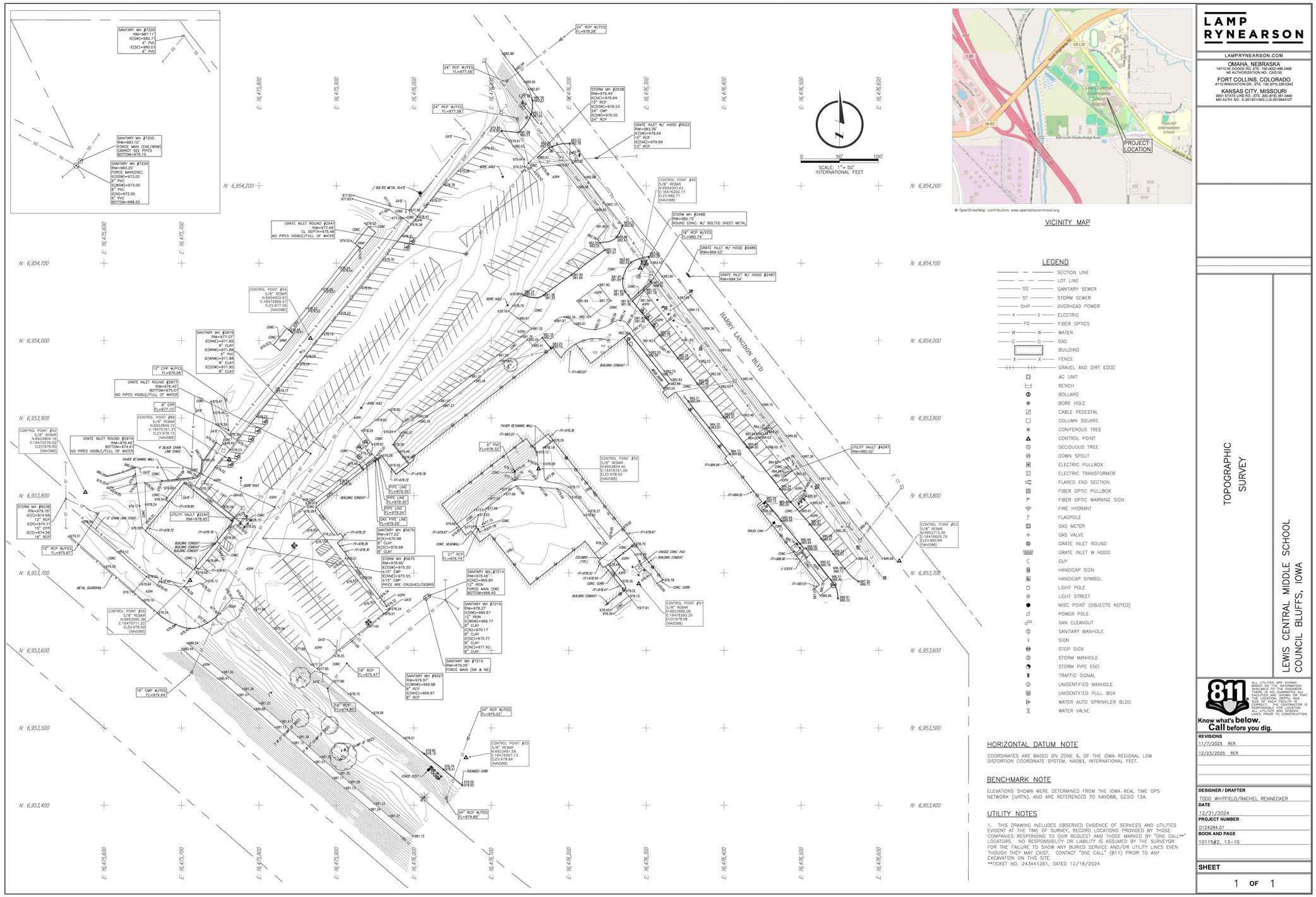
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026

LEFT BINDING EDGE



I-29
CR L35
Iowa Highway 92
IA 92
Lewis Central Community School District
Lewis Central Junior High School
East Hill Intermediate School
Dave Run
Middle Creek
Valley View Drive
Fairfield Drive
Fairfield Court
Fairfield Circle
Fairfield Drive
Fairfield Court
Fairfield Circle
Fairfield Drive
Fairfield Court
Fairfield Circle

LEFT BINDING EDGE

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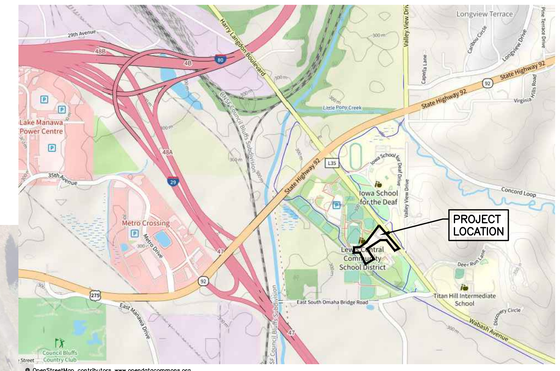

LOCATION MAP

LEGAL DESCRIPTION: SW ¼ OF THE SW ¼, SECTION 8, T47N, R43W, COUNCILBLUFFS, IOWA
ZONING COMPLIANCE AND SITE PLAN REVIEW

ADDRESS 3820 HARRY LANGDON BLVD.
APPLICANT LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT
PHONE NUMBER (712) 366-8250
USE TYPE: SCHOOL **IMPROVEMENT** SITE PLAN

ZONING: A-P (SEE SECTION 15.13)

[X] PERMITTED USE
[ ] CONDITIONAL USE
[ ] SPECIAL USE
[ ] AIRPORT USE
[ ] 855 REVIEW

SITE REGULATORS (SEE SECTION 15.13):

	ALLOWED	PROPOSED	COMMENTS
A. SITE AREA	5,000 SF MIN.	1,250,172 SF	
B. MINIMUM WIDTH	50 FEET	1,740 FEET	
C. MINIMUM DEPTH	100 FEET	588 FEET	
D. SETBACK			
FRONT YARD	20'	N/A	EXISTING BUILDING
STREET SIDE YARD	15'	N/A	EXISTING BUILDING
INTERIOR SIDE YARD	5'	N/A	EXISTING BUILDING
REAR YARD	20'	N/A	EXISTING BUILDING
E. HEIGHT	50' MAX	50'	EXISTING BUILDING
F. LOT COVER ALL STRUCTURES (%)	50%	11%	
G. PARKING REQUIREMENTS (SEE SECTION 15.23.060)	2 SPACES PER CLASSROOM (49 CLASSROOMS), 1 SPACE PER 4 PERSON CAPACITY AUDITORIUM (474 CAPACITY) = 285 SPACES	305 SPACES	324 PREVIOUS SPACES 17 SPACES REMOVED
H. ACCESSIBLE PARKING (SEE SUDAS TABLE 8C-1.02)	8 SPACES	12 SPACES	

BUFFERYARD (SEE SECTION 15.23):

ADJACENT ZONING:	R-1 NORTH, A-2 SOUTH, A-2 EAST AND A-P WEST	
I. LANDSCAPED BUFFER YARD	N/A	N/A

GENERAL NOTES

1. SITE SHALL BE AVAILABLE MAY 01, 2026 AND ALL WORK SHALL BE SUBSTANTIALLY COMPLETE BY AUGUST 07, 2026. WORK SHALL BE COMPLETED IN PHASES IN ORDER TO MAINTAIN ACCESS TO THE SCHOOL AND ATHLETIC FIELDS AT ALL TIMES.
2. AWARDED CONTRACTOR FOR THE ATHLETIC BUILDING ADD/RENOV SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ADJACENT PROJECT "MIDDLE SCHOOL PARKING LOT IMPROVEMENTS" CONTRACTOR.
3. ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE "IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) DESIGN MANUAL, CURRENT EDITION" AND ANY CITY OF COUNCIL BLUFFS REVISIONS OR AMENDMENTS THERETO SHALL APPLY TO THIS PROJECT. EXCEPT AS MODIFIED BY THESE SPECIFICATIONS, SPECIAL CONDITIONS, AND/OR THE CONSTRUCTION DRAWINGS.
4. EXISTING UTILITIES ARE SHOWN AS A CONVENIENCE FOR THE CONTRACTOR. THE LOCATIONS OF ALL AERIAL AND UNDERGROUND UTILITIES MAY NOT BE INDICATED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HOURS BEFORE WORK IS STARTED TO VERIFY UTILITY LOCATIONS (ONE CALL 1-800-292-8989).
5. BARRICADES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. THE CONTRACTOR SHALL PROVIDE THE ENGINEER/ARCHITECT WITH A CONSTRUCTION RECORD DRAWING INDICATING ALL CHANGES IN GEOMETRY, GRADES, ELEVATIONS OR MATERIAL ON THE PROJECT PRIOR TO FINAL ACCEPTANCE.
7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED TO COMPLETE THIS PROJECT, BESIDES THE GRADING PERMIT, AND IS RESPONSIBLE FOR THE PAYMENT OF ALL FEES ASSOCIATED WITH THESE PERMITS.
8. THE CONTRACTOR SHALL CONTACT THE SOILS ENGINEER TO OBSERVE THE SUBGRADE PRIOR TO PLACING PAVEMENT TO DELINEATE ANY AREAS WHERE SUBGRADE OVEREXCAVATION MAY BE REQUIRED.
9. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PROPOSED UTILITY CONNECTIONS WITH THE ARCHITECTURAL CONSTRUCTION DOCUMENTS.
10. THE INSTALLATION OF UTILITIES MAY REQUIRE THE DISTURBANCE OF EXISTING DRAINAGE AND EROSION CONTROL MEASURES. THESE ITEMS MAY INCLUDE LEVEL TERRACES, INTERCEPTOR SWALES, SILT FENCE AND ROCK CONSTRUCTION ENTRANCES. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF THE EXISTING SITE CONDITIONS PRIOR TO BIDDING THIS WORK. THE FUNCTION OF THESE ITEMS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION WITH EMPHASIS PLACED ON RESTORING THEIR INTEGRITY PRIOR TO ANY RAINFALL EVENT. AS PART OF THIS CONTRACT, ALL DISTURBED DRAINAGE AND EROSION CONTROL STRUCTURES SHALL BE RESTORED TO GOOD CONDITION AFTER COMPLETION OF THE WORK OR AS DIRECTED BY THE ENGINEER/ARCHITECT.
11. SEE PLAN SHEETS FOR ADDITIONAL NOTES.

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REVIEWER
CALEB M. SNYDER
PROJECT NUMBER
015509LR-100
DATE
1/5/2026

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LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

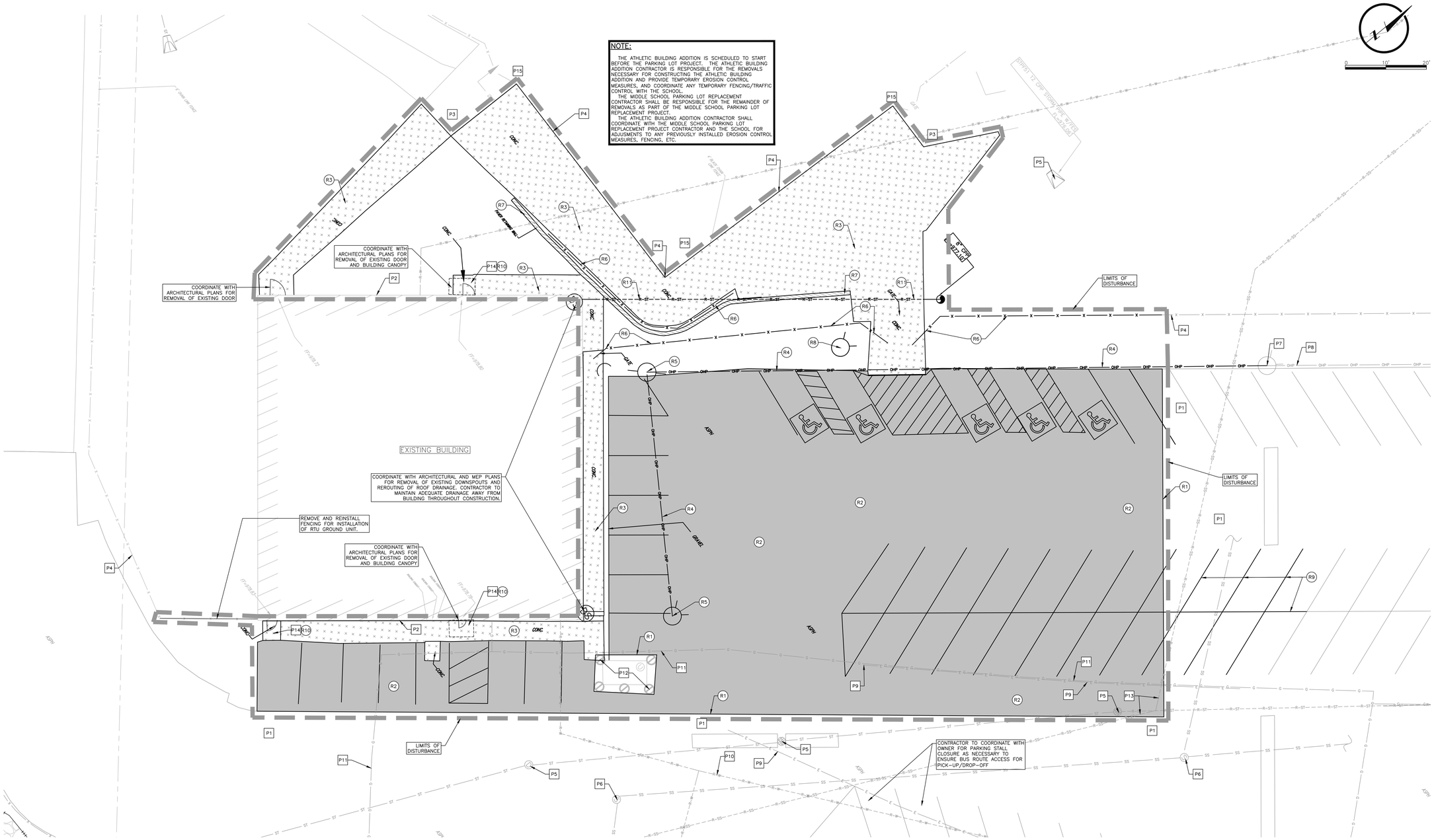
LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ZONING COMPLIANCE PLAN

C1-1

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

LEFT BINDING EDGE



REMOVAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS IN ADVANCE IF EXISTING UTILITIES CONFLICT WITH NEW CONSTRUCTION OR IF TEMPORARY OUTAGES ARE ANTICIPATED, INCLUDING BUT NOT LIMITED TO WATER, GAS, POWER, CABLE TELEVISION AND TELEPHONE.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO UTILITIES THAT ARE PERMITTED TO REMAIN IN PLACE. DAMAGES DUE DIRECTLY OR INDIRECTLY TO THE CONTRACTORS OPERATIONS SHALL BE PROMPTLY REPAIRED TO THE SATISFACTION OF THE ENGINEER/ARCHITECT AND THE OWNER OF THE PROPERTY, OR SHALL MAKE PAYMENT TO SUCH OWNERS FOR REPAIRS AS MAY BECOME NECESSARY ON ACCOUNT OF DAMAGES THAT ARE DUE TO THEIR OPERATIONS.
3. THE CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL OF THE PERMANENT AND TEMPORARY UTILITY APPURTENANCES IN THEIR PRESENT AND/OR RELOCATED POSITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS, INCONVENIENCE, OR DAMAGE SUSTAINED DUE TO INTERFERENCE FROM THE SAID UTILITY APPURTENANCES OR THE OPERATION OF DISCONNECTING THEM, INCLUDING THE POSSIBILITY OF UNCOVERING UTILITIES THAT HAVE BEEN ABANDONED AND/OR ARE NOT INDICATED.
4. ALL DEMOLITION RUBBISH WILL BE REMOVED FROM THE SITE BY A LICENSED TRUCKING FIRM, IN COVERED TRUCKS, AND TAKEN TO A LICENSED LANDFILL. ALL THIS WILL BE PAID FOR BY THE CONTRACTOR AND WILL BE PART OF THE CONTRACTOR'S BASE BID.
5. COORDINATION WITH FIRE DEPARTMENTS AND UTILITY COMPANIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. NO BURNING OF MATERIALS WILL BE PERMITTED.
7. THE OWNER SHALL BE GIVEN 5 BUSINESS DAYS NOTICE BEFORE ANY ENTRANCE OR ACCESS DRIVE CLOSURES.
8. THE LIMITS OF DEMOLITION SHOWN ON THE DRAWINGS ARE APPROXIMATE.
9. CONTRACTOR SHALL FIRST COORDINATE REMOVAL OF ANY EXISTING UTILITY WITH UTILITY OWNER (GAS, WATER, POWER, ETC.) ALL TELEPHONES, WATER, ELECTRIC AND GAS METERS, AND ASSOCIATED EQUIPMENT SHALL REMAIN THE PROPERTY OF THE VARIOUS UTILITY COMPANIES.
10. EXISTING PAVEMENT SHALL BE SAW-CUT AT LOCATIONS INDICATED AS REQUIRED FOR PAVEMENT REMOVAL. THE SAW-CUT SHALL BE MADE TO THE FULL DEPTH OF THE PAVEMENT.
11. WHERE INDICATED THE EXISTING PAVEMENT SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF THE PROJECT SITE. CONTRACTOR SHALL NOT USE A HEAVY BALL FOR BREAKING UP OF EXISTING PAVEMENT OVER PUBLIC WATER AND GAS MAINS.
12. TRENCH BACKFILL AND ANY SUBGRADE SOILS DISTURBED BY THE PAVEMENT REMOVAL PROCESS SHALL BE RECOMPACTED AS SPECIFIED IN THE COMPACTION REQUIREMENTS TABLE OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
13. NO TREES SHALL BE REMOVED BETWEEN MAY 15 AND JULY 31 IN ACCORDANCE WITH FISH AND WILDLIFE'S RULING ON THE PROTECTION OF THE ENDANGERED LONG-EARED BAT.
14. ANY TREES, BUSHES, OR OTHER VEGETATION WITH THE POTENTIAL TO BE NESTING HABITAT TO BE REMOVED DURING THE PRIMARY MIGRATORY BIRD NESTING SEASON (APRIL 1 THROUGH SEPTEMBER 1) REQUIRE A MIGRATORY BIRD SURVEY PRIOR TO REMOVAL. CONTRACTOR SHALL CONDUCT THE SURVEY AND THEIR OPERATIONS IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE NEBRASKA DEPARTMENT OF TRANSPORTATION'S AVIAN PROTECTION PLAN. MIGRATORY BIRD SURVEYS SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. IF THE CONTRACTOR ELECTS TO REMOVE HABITAT DURING THE NESTING SEASON, THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED BIRD SURVEY TO THE ENGINEER.

UTILITY CONTACTS

SANITARY SEWER:	COUNCIL BLUFFS SEWER DEPARTMENT	712-328-4644
POWER:	MID-AMERICAN ENERGY	888-427-5632
TELEPHONE:	ROBERT KNAPP CENTURY LINK	402-572-5824
CABLE TV:	GREG SORGENFIN COX COMMUNICATIONS	402-934-0444
WATER:	COUNCIL BLUFFS WATER WORKS	712-328-1006
GAS:	CHRIS DEWEY BLACK HILLS ENERGY	712-325-3022
PRIVATE		
LEWIS CENTRAL COMMUNITY SCHOOLS		712-366-8243

NOTE:

MIDDLE SCHOOL PARKING LOT REPLACEMENT PROJECT IS PLANNED TO BE UNDER CONSTRUCTION STARTING JUNE 1ST, 2026 AND CONCURRENTLY WITH THE ATHLETIC BUILDING RENOVATION AND EXPANSION PROJECT FOR THE DURATION OF THE CONTRACT. CONTRACTOR TO COORDINATE WITH THE MIDDLE SCHOOL PARKING LOT REPLACEMENT CONTRACTOR THROUGHOUT ALL PHASES OF THE PROJECT.

(R) REMOVAL KEYNOTES

- R1 SAWCUT PAVEMENT, FULL DEPTH.
- R2 REMOVE PAVEMENT,
- R3 REMOVE SIDEWALK.
- R4 REMOVAL OF OVERHEAD POWER LINE BY OTHERS. COORDINATE WITH MID-AMERICAN ENERGY FOR MORE INFORMATION.
- R5 REMOVAL OF POWER POLE BY OTHERS. COORDINATE WITH MID-AMERICAN ENERGY FOR MORE INFORMATION..
- R6 REMOVE FENCE AND GATES.
- R7 REMOVE BLOCK RETAINING WALL.
- R8 REMOVE LIGHT POLE.
- R9 REMOVE PARKING LOT STRIPING.
- R10 REMOVE SIDEWALK FROM TOP OF EXISTING STOOP, PROTECT EXISTING STOOP.
- R11 REMOVE STORM SEWER PIPE.

(P) PROTECT KEYNOTES

- P1 PROTECT PAVEMENT.
- P2 PROTECT BUILDING.
- P3 PROTECT SIDEWALK.
- P4 PROTECT FENCE.
- P5 PROTECT STORM SEWER STRUCTURE.
- P6 PROTECT SANITARY SEWER STRUCTURE.
- P7 PROTECT POWER POLE.
- P8 PROTECT OVERHEAD POWER.
- P9 PROTECT UNDERGROUND ELECTRICAL LINE.
- P10 PROTECT WATER LINE.
- P11 PROTECT GAS LINE.
- P12 PROTECT UTILITY VAULT AND BOLLARDS.
- P13 PROTECT SANITARY SEWER FORCE MAIN. FORCE MAIN ALIGNMENT IS BASED ON RECORD INFORMATION AND ACTUAL ALIGNMENT IS UNKNOWN. CONTRACTOR TO FIELD VERIFY FORCE MAIN IN AREAS OF DISTURBANCE AND COORDINATE WITH ENGINEER IF ALIGNMENT VARIES FROM LOCATION INDICATED ON CONSTRUCTION DRAWINGS.
- P14 PROTECT BUILDING STOOP, COORDINATE WITH STRUCTURAL PLANS FOR MODIFICATION.
- P15 PROTECT TRACK.

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REVIEWER
CALEB M. SNYDER
PROJECT NUMBER
012026.01-100
DATE
1/5/2026

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

REMOVAL PLAN

C2-1

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

LEFT BINDING EDGE

NOTE:
SEE THIS SHEET FOR EROSION CONTROL MEASURES TO BE INSTALLED. THESE ARE PROPOSED LOCATIONS. IF THE CONTRACTOR WISHES TO USE ALTERNATE LOCATIONS IT MUST BE APPROVED BY THE ENGINEER.

THIS WORK SHALL BE PERFORMED UNDER THE AUTHORIZATION OF THE EXISTING NPDES PERMIT DNR AUTHORIZATION NUMBER #####-#####. WEEKLY AND RAINFALL EVENT INSPECTIONS WILL BE CONDUCTED BY LAMP RYNEARSON UNDER THE AUTHORITY OF THE EXISTING PERMIT HOLDER.

##-####-GR

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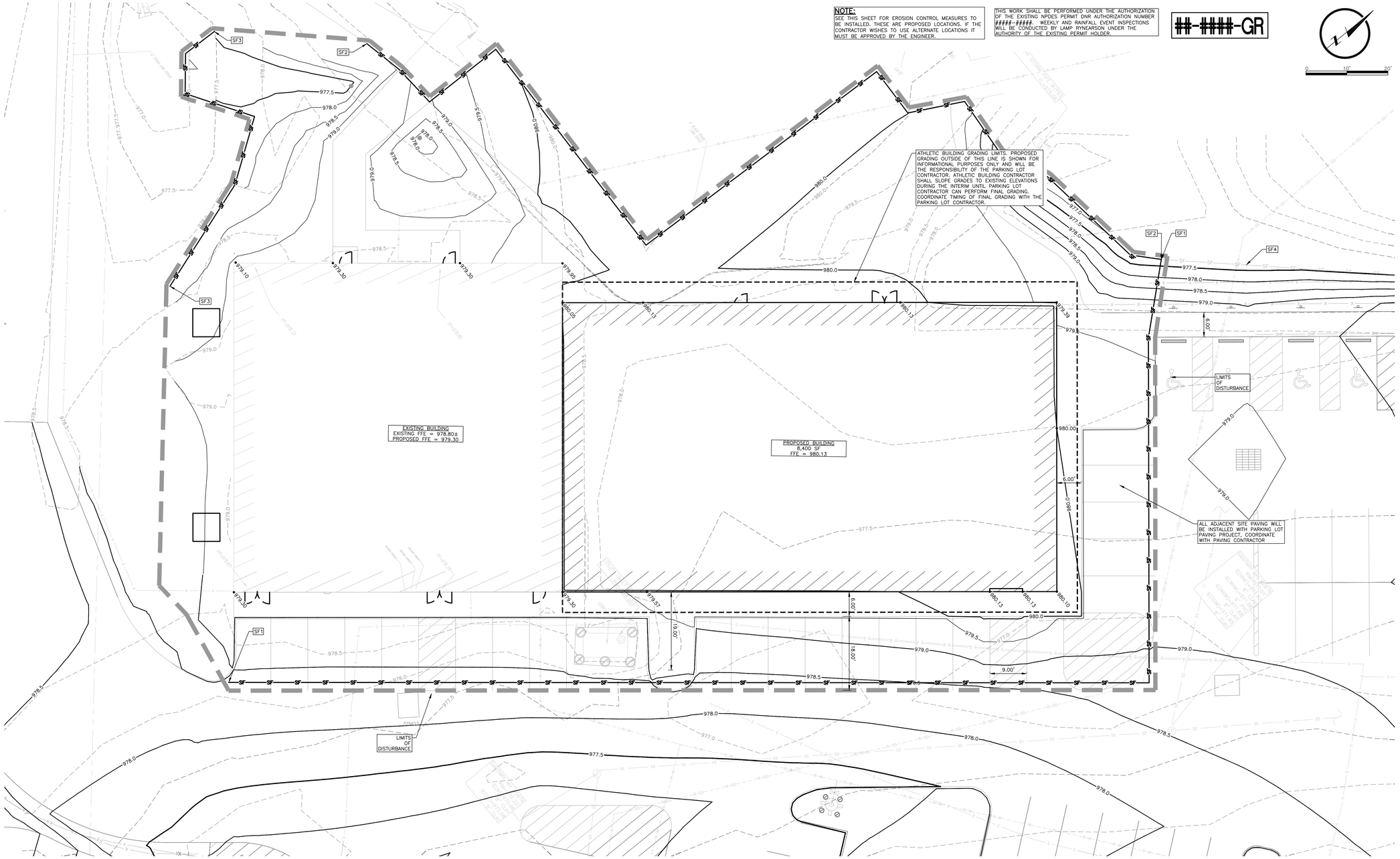

ELEVATION NOTES

1. PROPOSED CONTOURS ARE FINISHED GRADE/TOP OF PAVEMENT ELEVATIONS. NOT SUBGRADE ELEVATIONS.
2. ALL SPOT ELEVATIONS IN PAVEMENT ARE TOP OF SLAB UNLESS NOTED OTHERWISE.

COMPACTION REQUIREMENTS TABLE

SEE GEOTECHNICAL ENGINEERING REPORT:	LEWIS CENTRAL MIDDLE SCHOOL BUILDING ADDITION & STAIR TOWER EXPANSION		
PREPARED BY:	THIELE GEOTECH, INC 402-556-2171		
ENGINEER:	ROBERT K. LAPKE		
PROJECT NO:	25572.01		
DATED:	12/18/2025		
MAX. DEPTH OF LIFT FOR FILL (MEASURED LOOSE)	8"		
AREA	TEST	COMPACTION	MOISTURE
UTILITY TRENCH BACKFILL (DEPTH < 5')	STANDARD PROCTOR	95%	-3/+4
UTILITY TRENCH BACKFILL (DEPTH > 5')	STANDARD PROCTOR	95%	-3/+4
PCC PAVEMENT SUBGRADE (UPPER 12")	MODIFIED PROCTOR	90%	-3/+4
PAVEMENT SUBGRADE (DEPTH > 12")	STANDARD PROCTOR	95%	-3/+4
MANHOLE + STRUCTURE BACKFILL (FULL DEPTH)	STANDARD PROCTOR	95%	-3/+4
SIDEWALK SUBGRADE (UPPER 6")	STANDARD PROCTOR	95%	-3/+4
ALL OTHER FILL	STANDARD PROCTOR	95%	-3/+4

NOTES:

1. STANDARD PROCTOR SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D 698.
2. MODIFIED PROCTOR SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D 1557.
3. SEE GEOTECH REPORT FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

STORMWATER POLLUTION PREVENTION KEYNOTES

NOTE: ALL SWPPP-RELATED MEASURES AND BMPS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. BMPS MUST REMAIN IN PLACE UNTIL THE PROJECT SITE IS FULLY STABILIZED OR AS DIRECTED BY THE EROSION CONTROL INSPECTOR. ALTERNATE LOCATIONS OF SWPPP-RELATED MEASURES SHALL BE COORDINATED WITH THE EROSION CONTROL INSPECTOR.

SF —SF—	SF1-SF3	CONSTRUCT, MAINTAIN, AND CLEAN OUT SILT FENCE IN ACCORDANCE WITH FIGURE 9040.119 OF THE SUDAS SPECIFICATIONS MANUAL. COORDINATE WITH PARKING LOT CONTRACTOR FOR REMOVAL OF SF1.
SF —SF—	SF4	SILT FENCE TO BE CONSTRUCTED WITH ADJACENT PARKING LOT PROJECT. COORDINATE WITH PARKING LOT CONTRACTOR.

NOTE:
SITE PAVING AND FENCE CONSTRUCTION ADJACENT TO BUILDING TO BE INSTALLED AS PART OF SEPARATE PROJECT. CONTRACTOR TO COORDINATE WITH CONCURRENT PARKING LOT PAVING PROJECT.

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REVIEWER
CALEB M. SNYDER
PROJECT NUMBER
012526.01-020
DATE
1/5/2026

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

GRADING PLAN

C3-1

CONSTRUCTION DOCUMENTS
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02/23/2026

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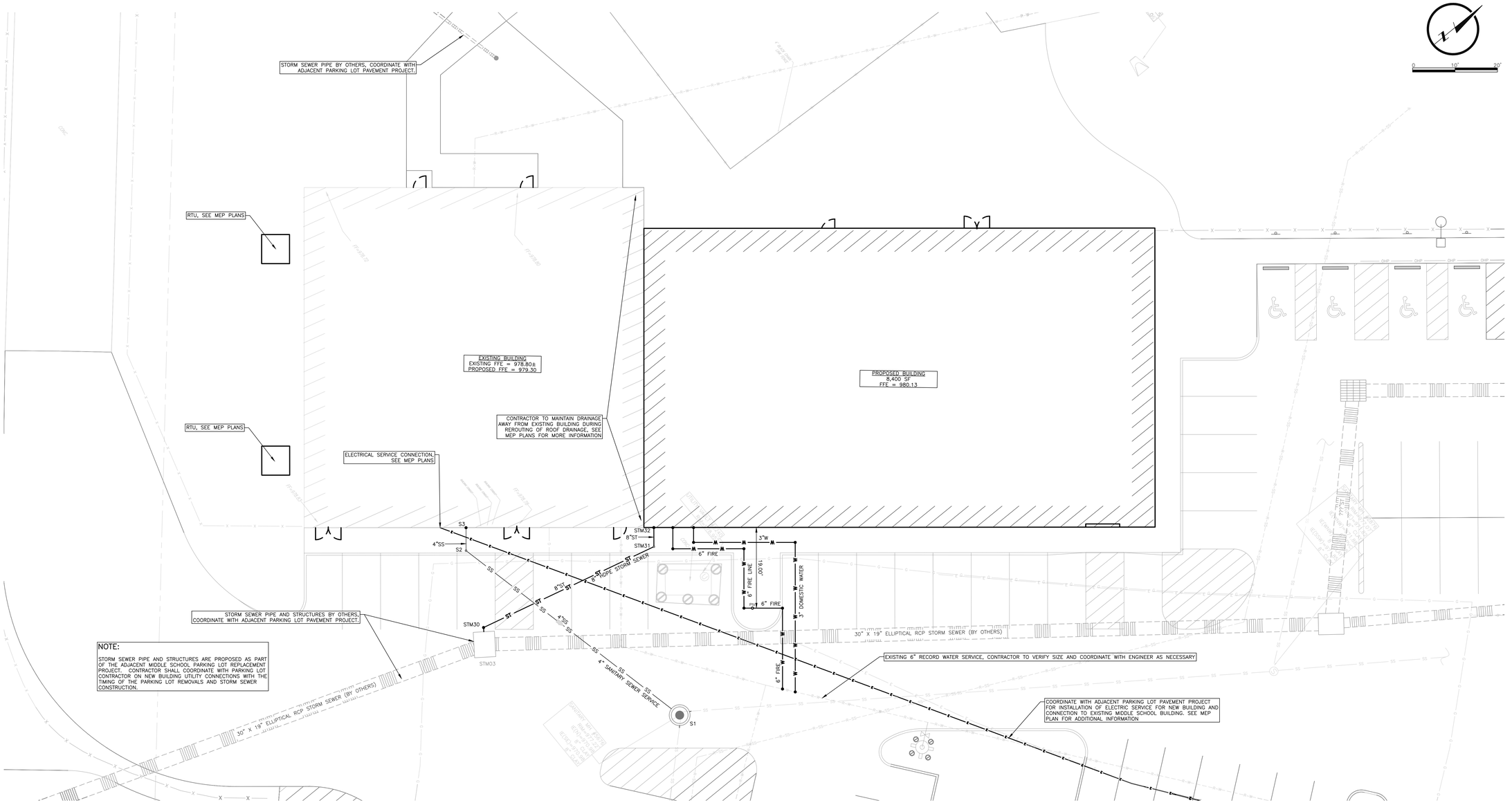

NOTE:

STORM SEWER PIPE AND STRUCTURES ARE PROPOSED AS PART OF THE ADJACENT MIDDLE SCHOOL PARKING LOT REPLACEMENT PROJECT. CONTRACTOR SHALL COORDINATE WITH PARKING LOT CONTRACTOR ON NEW BUILDING UTILITY CONNECTIONS WITH THE TIMING OF THE PARKING LOT REMOVALS AND STORM SEWER CONSTRUCTION.

SANITARY SEWER NOTES

1. ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE IOWA STATEWIDE URBAN STANDARD SPECIFICATIONS (SUDAS) FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION, AND ANY REVISIONS OR AMENDMENTS THERETO SHALL APPLY TO THIS PROJECT. SPECIFICALLY, CHAPTER 3 – SANITARY SEWERS AND CHAPTER 14 – TRENCHLESS CONSTRUCTION.
2. THE CONTRACTOR IS REFERRED TO THE FOLLOWING IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) FOR PUBLIC IMPROVEMENTS MANUAL FIGURES.

   6010.301 – CIRCULAR SANITARY SEWER MANHOLE
   6010.303 – SANITARY SEWER MANHOLE OVER EXISTING SEWER
   6010.601 – RING AND COVER TYPES (A&B)
3. MANHOLES SHALL BE LOCATED IN ACCORDANCE WITH THE COORDINATES SHOWN. THE LENGTH OF PIPE BETWEEN MANHOLES MAY VARY ACCORDINGLY.
4. MANHOLES SHALL INCLUDE A 4" AND AN 8" ADJUSTING RING AT THE TOP OF THE RISER SECTION. RISER SECTIONS BELOW THE ADJUSTING RINGS SHALL BE AS NECESSARY TO COMPLETE THE MANHOLE.
5. THE CONTRACTOR SHALL PERFORM AIR OR WATER LEAKAGE TESTS IN ACCORDANCE WITH SUDAS SPECIFICATIONS.
6. TRENCH BACKFILL SHALL BE COMPACTED AS SHOWN IN THE COMPACTION REQUIREMENTS TABLE (SEE SHEET C3–1) OR AS SPECIFIED BY THE GEOGRAPHICAL ENGINEER.
7. ALL SANITARY SEWER SERVICE CONNECTIONS MUST BE MADE BY A LICENSED PLUMBER.
8. THE CONTRACTOR INSTALLING SEWER SHALL HOLD A VALID SEWER LAYER'S LICENSE AND SHALL OBTAIN ALL REQUIRED PERMITS. PERMITTING FEES SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PROPOSED UTILITY CONNECTIONS WITH THE ARCHITECTURAL CONSTRUCTION DOCUMENTS.
10. THE INSTALLATION OF UTILITIES MAY REQUIRE THE DISTURBANCE OF EXISTING DRAINAGE AND EROSION CONTROL MEASURES. THESE ITEMS MAY INCLUDE SILT BASINS, LEVEL TERRACES, INTERCEPTOR SWALES, SILT FENCE AND ROCK CONSTRUCTION ENTRANCES. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF THE EXISTING SITE CONDITIONS PRIOR TO BIDDING THIS WORK. THE FUNCTION OF THESE ITEMS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION WITH EMPHASIS PLACES ON RESTORING THEIR INTEGRITY PRIOR TO ANY RAINFALL EVENT. AS PART OF THE CONTRACT, ALL DISTURBED DRAINAGE AND EROSION CONTROL STRUCTURES SHALL BE RESTORED TO GOOD CONDITION AFTER COMPLETION OF THE WORK OR AS DIRECTED BY THE ENGINEER/ARCHITECT.

STORM SEWER NOTES

1. INLETS AND MANHOLES SHALL BE LOCATED IN ACCORDANCE WITH THE COORDINATES SHOWN. THE LENGTHS OF PIPES MAY VARY ACCORDINGLY. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF INLETS OR PIPE CONNECTIONS ABOVE THE CENTERLINE OF THE PIPE.
2. THE CONTRACTOR IS REFERRED TO THE FOLLOWING SUDAS FIGURES:

   3010.101– TRENCH BEDDING AND BACKFILL ZONES
   3010.102– RIGID GRAVITY PIPE TRENCH BEDDING
   4020.211– SPECIAL PIPE CONNECTION FOR STORM SEWER
   4030.221– RCP APRON SECTION FOOTING
   4030.224– CONCRETE PIPE APRON GUARD
   6010.401– CIRCULAR STORM SEWER MANHOLE
   6010.602– CASTINGS FOR STORM SEWER MANHOLES
3. TRENCH BACKFILL SHALL BE COMPACTED AS SHOWN IN THE COMPACTION REQUIREMENTS TABLE (SEE SHEET C3–1) OR AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
4. THE CONTRACTOR INSTALLING SEWER SHALL HOLD A VALID SEWER LAYER'S LICENSE AND SHALL OBTAIN ALL REQUIRED PERMITS. PERMITTING FEES SHALL BE PAID BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

WATER MAIN NOTES

1. ALL SITE WORK SHALL BE IN ACCORDANCE WITH CURRENT EDITION OF THE IOWA STATEWIDE URBAN STANDARD SPECIFICATIONS (SUDAS) FOR PUBLIC WORKS CONSTRUCTION, (SPECIFICALLY, CHAPTER 4– WATER MAINS AND DIVISION 5 – WATER MAINS AND APPURTENANCES.), AWWA STANDARDS, AND ANY REVISIONS OR AMENDMENTS BY THE CITY OF COUNCIL BLUFFS.
2. THE CONTRACTOR SHALL CONSTRUCT WATER SERVICE FROM EXISTING MAINS TO THE BUILDING. CONTRACTOR SHALL VERIFY BUILDING CONNECTION LOCATIONS IN ARCHITECTURAL AND MECHANICAL PLANS.
3. THE CONTRACTOR SHALL PROVIDE VALVE BOX AND WATER METER (IF REQUIRED)
4. THE MINIMUM DEPTH FOR COVER OF WATER LINES SHALL BE 6 FEET.
5. COORDINATE SHUTDOWN FOR WATER MAIN RELOCATION WITH CITY OF COUNCIL BLUFFS (712–328–1006) AND PERFORM DURING NON–PEAK HOURS, NIGHT–TIME IF REQUIRED.
6. ALL WATER SERVICES MUST BE INSTALLED BY A LICENSED PLUMBER.
7. INSTALL VINYL IDENTIFICATION AT 2'–0" BELOW FINISH GRADE DIRECTLY ABOVE WATER LINES.
8. INSTALL TRACER SYSTEM ON ALL WATER MAINS AS PER STANDARD ROAD PLAN WM–102.
9. PROVIDE THRUST BLOCKS ON ALL WATER MAINS AT FITTINGS. AS PER STANDARD ROAD PLAN WM–101.
10. PROVIDE ADDITIONAL BENDS AS REQUIRED TO ACHIEVE PROPOSED WATER MAIN ALIGNMENT AT CROSSING CONFLICTS.

SANITARY STRUCTURE TABLE		
STRUCTURE	NORTHING	EASTING
S1	6953744.64	16475805.47
S2	6953730.12	16475743.61
S3	6953733.54	16475739.42

STORM STRUCTURE TABLE		
STRUCTURE	NORTHING	EASTING
STM30	6953721.87	16475760.27
STM31	6953765.02	16475770.84
STM32	6953767.86	16475767.35

UTILITY CONTACTS

SANITARY SEWER:	COUNCIL BLUFFS SEWER DEPARTMENT	712–328–4644
POWER:	MID–AMERICAN ENERGY	888–427–5632
TELEPHONE:	ROBERT KNAPP CENTURY LINK	402–572–5824
CABLE TV:	GREG SORGENFIN COX COMMUNICATIONS	402–934–0444
WATER:	COUNCIL BLUFFS WATER WORKS	712–328–1006
GAS:	CHRIS DEWEY BLACK HILLS ENERGY	712–325–3022
PRIVATE		
LEWIS CENTRAL COMMUNITY SCHOOLS		712–366–8243

BCDM architects

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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

UTILITY PLAN

C4-1

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

IOWA ONE CALL
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LAMP RYNEARSON

DESIGNER / DRAFTER
AUSTIN HOOPS/JOE HOFFNER
REVIEWER
CALEB M. SNYDER
PROJECT NUMBER
013208.01–020
DATE
1/5/2026

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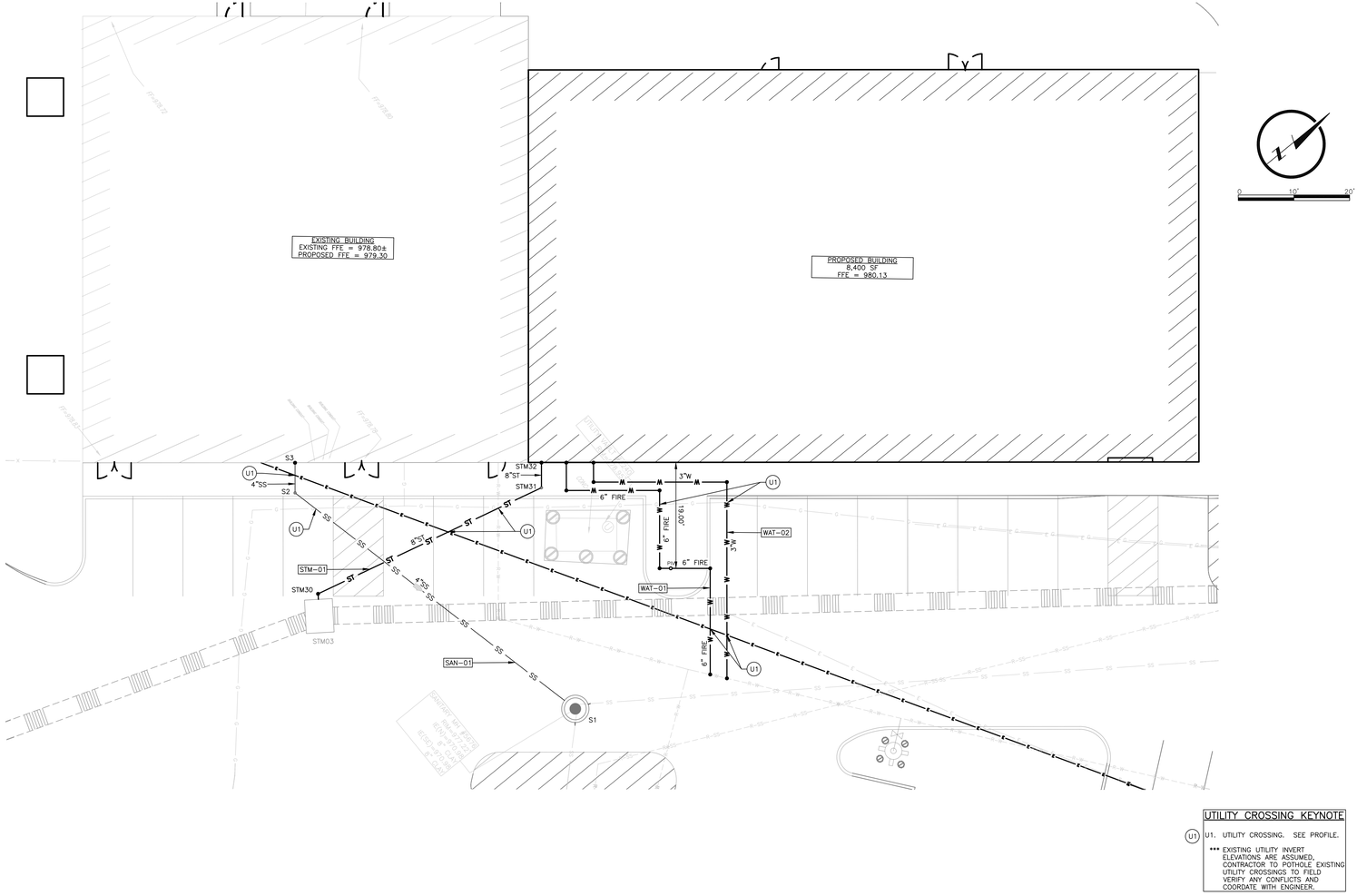
LEFT BINDING EDGE



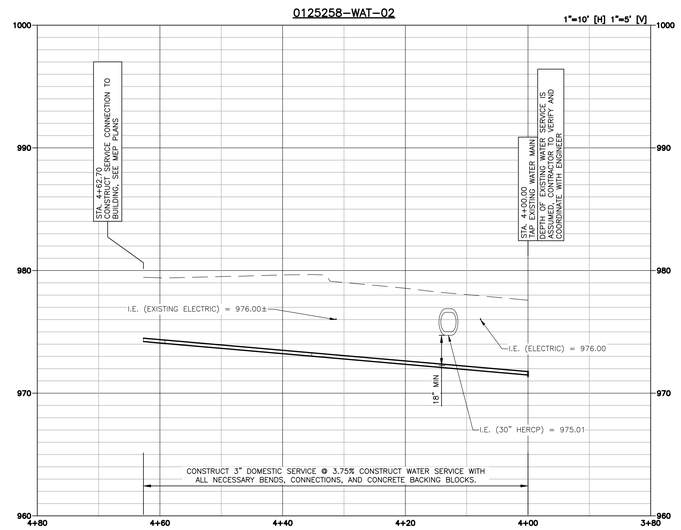
UTILITY CROSSING KEYNOTE

(U1) U1. UTILITY CROSSING. SEE PROFILE.

*** EXISTING UTILITY INVERT ELEVATIONS ARE ASSUMED. CONTRACTOR TO POTHOLE EXISTING UTILITY CROSSINGS TO FIELD VERIFY ANY CONFLICTS AND COORDATE WITH ENGINEER.

0125258-WAT-02

1"=10' [H] 1"=5' [V]



0125258-SAN-01

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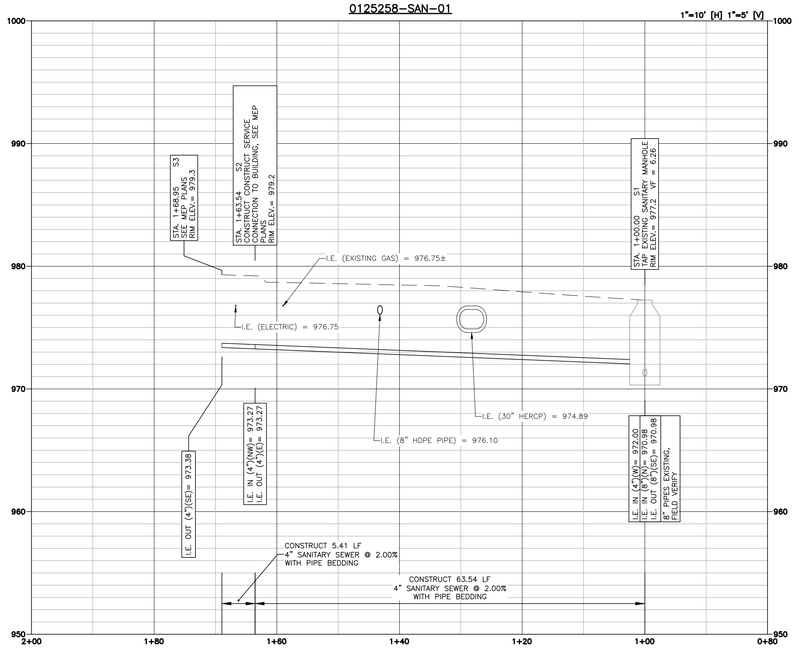

0125258-STM-01

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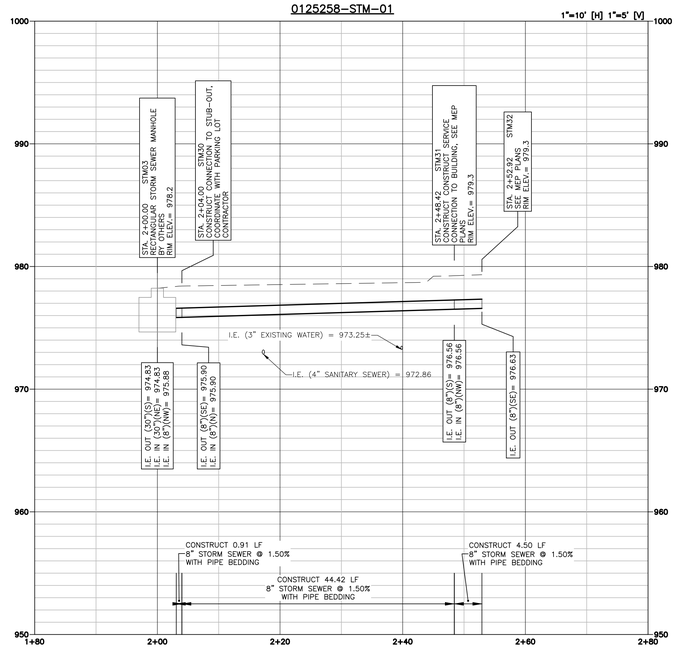
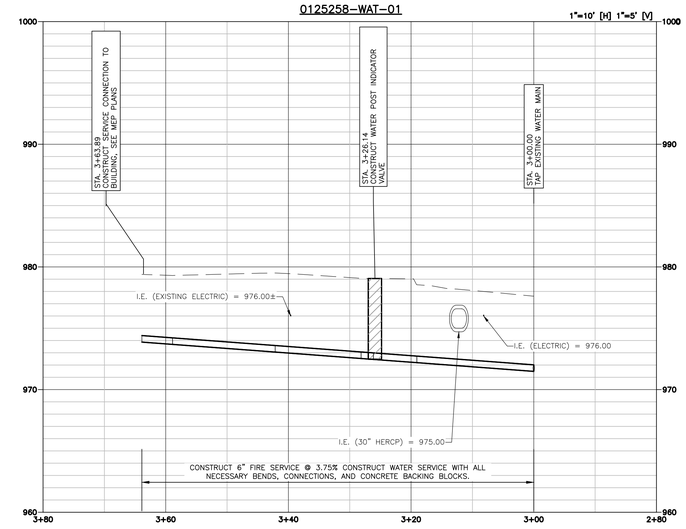


0125258-WAT-01

1"=10' [H] 1"=5' [V]



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DATE
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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

UTILITY PLAN AND PROFILES

C4-2

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

LEFT BINDING EDGE

2/24/2026 1:26:49 PM

ABBREVIATIONS

DEGREE	
POUND OR NUMBER	#
AND	&
AT	@
A	**A**
ABOVE FINISH FLOOR	A.F.F.
ACOUSTICAL CEILING FINISH	ACF
ACOUSTICAL PANEL	AP
ACOUSTICAL TILE CEILING	ATC
ACOUSTICAL WALL COVERING	AWC
ADJUSTABLE	ADJ.
AIR CONDITIONING	A/C
AIR HANDLING UNIT	AHU
ALIGN	AL.
ALTERNATE	ALT.
ALUMINUM	ALUM.
ANCHOR	ANCH.
ANCHOR BOLT	A.B.
APPLIED GLUE	AGLT
LAMINATED TIMBER	
APPROXIMATE(LY)	APPROX.
ARCHITECT(URAL)	ARCH
ASPHALT	ASPH.
B	**B**
BASE BID	B.B.
BASEMENT	BSMT.
BEAM	BM
BEARING	BRG.
BENCHMARK	BMK.
BLOCKING	BLKG
BOARD	BD.
BOTTOM	BOT.
BOTTOM OF	B.O.
BOTTOM OF WALL	B.O.W.
BUILDING	BLDG.
BUILDING LINE	B.L.
C	**C**
CABINET UNIT HEATER	CUH
CARPET	CPT
CAST IN PLACE	CIP
CAVITY	CAV.
CEILING	CLG.
CEMENT	CEM.
CEMENT PLASTER	CEM. PL.
CENTER	CENT.
CENTER LINE	℄
CERAMIC TILE	CT
CLEAN OUT	C.O.
CLEAR	CLR
CLEAR FLOAT GLASS	CFG
CLEAR TEMPERED GLASS	CTG
CLEAR TEMPERED	
INSULATED GLASS	CTIG
CLEAR MIRROR GLASS	CMG
CLOSET	CLOS.
COLUMN	COL.
COMPRESSIBLE	COMP.
CONCRETE	CONC.
CONCRETE MASONRY UNIT	CMU
CONDITION	COND.
CONSTRUCTION	CONST.
CONTINUOUS	CONT.
CONTRACTOR	CONTR.
CONTROL JOINT	C.J.
CORNER GUARD	C.G.
CORRIDOR	CORR.
D	**D**
DEEP	D
DETAIL	DET.
DIAGONAL	DIAG.
DIAMETER	DIA., Ø
DIMENSION	DIM.
DISPENSER	DISP.
DOOR	DR.
DOWN	DN.
DOWN SPOUT	D.S.
DRAIN TILE	DT
DRAWING	DWG.
DRINKING FOUNTAIN	DF

E	**E**
EACH	EA.
ELECTRIC(AL)	ELEC.
ELECTRIC WATER COOLER	EWC
ELEVATION	EL.
ELEVATOR	ELEV.
EQUAL	EQ.
EQUIPMENT	EQUIP.
EXCAVATE	EXC.
EXISTING	EXIST. OR EXG
EXISTING ROOF DRAIN	E.R.D
EXPANSION JOINT	EJ
EXPANSION JOINT COVER	E.J.C.
EXPOSED	EXP
EXTERIOR	EXT.
F	**F**
FABRIC WALL PANEL	FWP
FEET	FT.
FIELD VERIFY	F.V.
FINISH	FIN.
FINISHED FLOOR	F.F.
FINISH FLOOR ELEVATION	F.F.E.
FIRE ALARM	F.A.
FIRE EXTINGUISHER	F.E.
FIRE EXTINGUISHER CABINET	F.E.C.
FIRE HOSE CABINET	F.H.C.
FIRE HYDRANT	FH
FIREPROOF(ING)	FRPF.
FIRE RATED GLASS CERAMIC	FRGC
FIXTURE	FIXT.
FLASHING	FLASHG
FLEXIBLE	FLEX.
FLOOR	FL.
FLOOR DRAIN	FD
FLOORING	FLG.
FOOTING	FTG.
FOUNDATION	FDN.
FRAME	FR.
FURRING	FURG
G	**G**
GALVANIZED	GALV.
GAUGE	GA.
GLASS FIBER REINFORCED GYPSUM	G.F.R.G.
GLUE LAM BEAM	G.L.B.
GRAB BAR	GB
GRADE	GR
GRANULAR	GRAN.
GROUND FACE CONCRETE MASONRY UNIT	GFCMU
GROUT	GRT
GUTTER	G.
GYPSUM WALLBOARD	GWB
GYPSUM	GYP.
H	**H**
HAND DRYER	H.D.
HANDICAPPED	HC
HARDWARE	HDWE
HARDWOOD	HDWD.
HEIGHT	HT.
HEAVY CLEAR TEMPERED GLASS	HCTG
HIGH	H.
HOLLOW CORE	HC
HOLLOW METAL	H.M.
HORIZONTAL	HORIZ.
HOUR	HR.
I	**I**
INCH	IN.
INFORMATION	INFO.
INSIDE DIAMETER	I.D.
INSIDE FACE	I.F.
INSULATION	INSUL.
INTERIOR	INT.
INTERIOR DIAMETER	I.D.
INSULATED TRANSLUCENT PANEL SYSTEM	I.T.P.S.
J	**J**
JANITOR	JAN.
JOINT	JT.
JOIST	JST.
JOIST BEARING	JST. BRG.
K	**K**
KEYED CONSTRUCTION JOINT	K.C.J.
KITCHEN	KIT.

L	**L**
ANGLE	L OR ∠
LANDSCAPE ARCHITECT	LA
LAVATORY	LAV.
LIGHT	LT.
LIGHT WEIGHT	LT. WT.
LINEAL FOOT	L.F.
LINEAR FOOT	L.F.
LIVE LOAD	L.L.
LOCATION	LOC.
M	**M**
MANAGEMENT	MGMT
MANHOLE	M.H.
MANUFACTURER	MANF
MARKERBOARD	M.B.
MASONRY	MAS
MASONRY OPENING	M.O.
MATERIAL	MATL
MAXIMUM	MAX.
MECHANICAL	MECH.
METAL	MTL.
METAL TOILET COMPARTMENT	MTC
MINIMUM	MIN.
MIRROR	MIR.
MISCELLANEOUS	MISC.
MOP/BROOM HOLDER	M.B.H.
MOP SINK	MS
MOUNT	MT
MOUNTED	MTD.
MULLION	MULL.
N	**N**
NAPKIN DISPENSER	ND
NAPKIN DISPOSAL	NDL
NOMINAL	NOM.
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
NUMBER	NO.
O	**O**
OCCURRING	OCCURG
OFFICE	OFF.
ON CENTER(S)	O.C.
ON CENTER EACH WAY	O.C.E.W.
OPENING	OPNG.
OPPOSITE	OPP.
OUTSIDE DIAMETER	O.D.
OUTSIDE FACE	O.F.
OVERFLOW DRAIN	O.D.
OVERHEAD	OVHD
P	**P**
PAINT	P
PAIR	PR.
PANEL	PNL.
PAPER HOLDER	PH
PAPER TOWEL DISPENSER	TD-1
PAPER TOWEL RECEPTACLE	P.T.R.
PARTITION	PTN.
PAVEMENT	PVMT.
PERIMETER	PERIM.
PLATE	PL. OR P
PLASTER	PLAS.
PLASTIC LAMINATE	PLAM.
PLYWOOD	PLYWD.
POLISHED	POL.
POLYVINYL CHLORIDE	PVC
PORCELAIN TILE	PT.
PRECAST CONCRETE	P.C.
PREFINISHED	PF.
PROJECT(ION)	PROJ.
PROPERTY	PROP.
PRE-ENGINEERED METAL BUILDING	PEMB
Q	**Q**
QUARRY TILE	Q.T.
R	**R**
RADIUS	R.
RADIUS POINT	RP
RECESSED	REC.
REFERENCE	REF.
REFRIGERATOR	REFR
REINFORCING	REINF.
REMOVABLE	REM.
REQ'D	REQ'D
RETAINING	RET
REVERSE	REV.
RIGHT OF WAY	R.O.W.
RISER	R
ROOF DRAIN	RD
ROOF TOP UNIT	RTU
ROOF HATCH	R.H.
ROOM	RM.
ROUGH OPENING	R.O.
RUBBER	RUB.

S	**S**
SANITARY SEWER	SAN
SAW JOINT	S.J.
SCHEDULE	SCHED.
SEALANT	SEAL
SECTION	SECT.
SERVICE	SERV.
SHEET VINYL	S.V.
SHEATHING	SHTHG
SHEET	SHT.
SHEET METAL	S.M.
SHEET VINYL	SV
SIMILAR	SIM.
SLAB-ON-GRADE	S.O.G.
SOAP DISPENSER	SP
SOLID CORE	S.C.
SOLID SURFACE MATERIAL	SSM
SPACE	SP.
SPECIFICATIONS	SPEC.
SPECIFIED	SPEC'D
SQUARE	SQ.
SQUARE FEET	S.F.
STAGGERED	STAG'D
STAIN	ST.
STAINLESS STEEL	S.S.
STANDARD	STD.
STEEL	STL.
STORAGE	STOR.
STRUCTURE(AL)	STRUCT.
SURFACE	SURF.
SUSPENDED	SUSP.
SYMMETRICAL	SYM.
T	**T**
TACKBOARD	TB.
TACK WALL	T.W.
TELEPHONE	TEL., TELE
TELEVISION	TV.
TEMPERATURE	TEMP.
TERRAZZO	TERR.
THICK	T. OR THK
THRESHOLD	THR.
THROUGH WALL FLASHING	T.W.F.
THROUGH	THRU
TINTED INSULATING GLASS	TIG
TINTED TEMPERED INSULATING GLASS	TTIG
TINTED TEMPERED GLASS	TTG
TINTED TEMPERED LAMINATED INSULATING GLASS	TTLIG
TOE OF SLOPE	TOE
TOILET	TLT.
TOILET PAPER DISPENSER	PH-1
TONGUE & GROOVE	T & G
TOP OF	T.O.
TOP OF CURB	T.O.C.
TOP OF FOOTING	T.O.F.
TOP OF SLOPE	TOE
TOP OF STAIRS	TS
TOP OF STEEL	T.O.S.
TOP OF WALL	TW
TOPOGRAPHY	TOPO.
TOWEL BAR	T.B.
TOWEL DISPENSER	TD
TOWEL DISPENSER/DISPOSAL	TDDL
TREAD	T.
TUBE STEEL	T.S.
TYPICAL	TYP.
U	**U**
UNIT HEATER	UH
UNLESS NOTED OTHERWISE	U.N.O.
UPPER LEVEL	U.L.
URINAL	UR.
UTILITY	UTIL.
V	**V**
VERTICAL	VERT.
VESTIBULE	VEST.
VINYL	VIN.
VINYL ASBESTOS TILE	VAT
VINYL BASE	VB
VINYL COMPOSITION TILE	VCT
VINYL WALL COVERING	VWC
VISUAL DISPLAY BOARD	V.D.B.
W	**W**
WAINSCOT	WSCT.
WALLCOVERING	WC
WALL HYDRANT	WH
WALL PROTECTION PANEL	WPP
WASTE RECEPTACLE	WR
WATER CLOSET	W.C.
WEIGHT	WT.
WELDED WIRE FABRIC	WWF
WIDE	W.
WINDOW	WIN.
WITH	W/
WITHOUT	W/O
WOOD	WD.
WOOD BASE	WB
WORKING POINT	WP
Y	**Y**
YARD	YD.
YARD HYDRANT	Y.H.

MATERIALS

EARTH		COMPRESSIBLE FILLER		ROOF OR RIGID INSUL.	
GRANULAR FILL		STEEL		CAULKING OR SEALANT	
CONCRETE		DIMENSION LUMBER		BATT OR LOOSE INSUL.	
CONCRETE MASONRY		PLYWOOD		GWB. BOARD OR PLAS.	
BRICK		FINISH WOOD		FOAMED IN PLACE INSUL.	

REFERENCE SYMBOLS

DETAIL — DETAIL NO. (#) / SHEET WHERE DETAIL IS FOUND (A#-#)

ELEVATION — DETAIL NO. (#) / SHEET WHERE DETAIL IS FOUND (A#-#)

DETAIL SECTION REFERENCE — SECTION NO. (#) / SHEET WHERE SECTION IS FOUND (A#-#)

WALL SECTION REFERENCE — SECTION NO. (#) / SHEET WHERE SECTION IS FOUND (A#-#)

BUILDING SECTION REFERENCE — SECTION NO. (#) / SHEET WHERE SECTION IS FOUND (A#-#)

COLUMN LINES — (A)

WALL TYPE — #.#

DOOR OPENING AND TAG — ##

ROOM NAME AND NUMBER — ROOM ###

NORTH ARROW

HEIGHT ELEVATION — T.O. BRICK #'-#"

WINDOW TAG — (A)

TYPICAL WALL TYPE SCHEDULE

TYPE	FURRING DESCRIPTION	TYPE	WOOD STUDS DESCRIPTION	TYPE	MASONRY DESCRIPTION
W1.2	5/8" GWB; 2 X 2 WOOD STUDS; FACE OF ADJACENT SURFACE; 2 1/8"	W5.1	5/8" GWB; 2 x 4 WOOD STUDS; 4 1/8"	8	8" CMU; 7 5/8"; UL DES U905
		W5.1P	3/4" PLYWOOD; 2 x 4 WOOD STUDS; 4 1/4"		
		W5.2 W5.2A	5/8" GWB, EACH SIDE; 2 x 4 WOOD STUDS; SOUND INSUL. AT TYPE W5.2A; 4 3/4"		

WALL TYPE NOTES

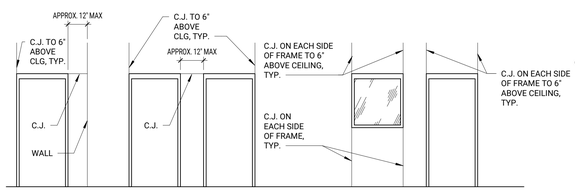
1. PROVIDE WATER RESISTANT GWB IN ALL BATHROOMS OR WET AREAS.
2. WHENEVER GWB ABUTS A MASONRY WALL, HOLD CASING BEAD 3/16" AWAY FROM FACE OF WALL AND PROVIDE CASING BEAD ON EDGE OF GWB AND A 3/16" REVEAL. PAINT TO MATCH EXISTING WALL COLOR UNLESS NOTED OTHERWISE. COORDINATE WITH DETAIL #1 ON THIS SHEET.
3. ALL EXPOSED CMU OUTSIDE 90 DEGREE CORNERS SHALL BE 1" BULL-NOSED, UNLESS OTHERWISE NOTED.
4. ALL GYPSUM WALLBOARD (GWB) NOTED OR SCHEDULED ON THE DRAWINGS SHALL BE SUSPENDED AND/OR SUPPORTED WITH FRAMING IN ACCORDANCE WITH INDUSTRY STANDARDS WHERE NOT SPECIFICALLY DETAILED OTHERWISE SPECIFIED.
5. ALL WALLS SHALL EXTEND TO THE BOTTOM OF THE HIGHEST SURFACE OF THE UNDERSIDE OF THE STRUCTURAL DECK. AT FIRE RATED WALLS, SEAL THE TOP OF SUCH WALLS AND AT PENETRATIONS THROUGH SUCH WALLS WITH FIRE SEALANT AND FIRE SAFING INSULATION.
5. SEE SECTION 04 20 00 FOR REQUIREMENTS WHEN MASONRY WALLS EXTEND TO STRUCTURE ABOVE.
6. 5/8" HIGH IMPACT GWB TO BE USED AT THE CORRIDOR FACE OF CORRIDOR WALLS IN PLACE OF 5/8" GWB UP TO 8' A.F.F. WHERE WALL TILE IS NOT PRESENT.
7. AT CMU WALLS WHERE STRUCTURAL MEMBERS (JOIST, BEAMS, ETC.)PENETRATE THE WALLS, CMU SHALL BE AS TIGHT AS POSSIBLE TO STRUCTURAL MEMBERS AND REMAINING PENETRATION SHALL BE IN-FILLED WITH WOOD STUD FRAMING, BATT INSULATION, AND DRYWALL. DRYWALL SHALL BE FINISHED TIGHT TO STRUCTURAL MEMBERS.
8. AT CMU WALLS WHERE WALLS CANNOT EXTEND FULL HEIGHT TO STRUCTURAL DECK DUE TO STRUCTURAL MEMBERS (JOIST, BEAMS, ETC.), THE REMAINDER OF THE SPACE BETWEEN CMU AND STRUCTURAL MEMBERS SHALL BE IN-FILLED WITH WALL TYPE W5.2A AROUND MEMBER WITH DRYWALL FINISHED TIGHT AND SEALED TO PENETRATING ELEMENT.

WALL TYPE DESIGNATIONS ABOVE INDICATE THE FOLLOWING:

A - SOUND INSULATED WALL ASSEMBLY*

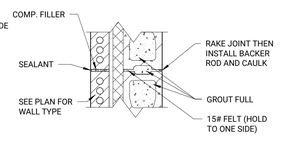
GENERAL NOTES

1. CONTRACTOR SHALL REVIEW CONTRACT REQUIREMENTS AND PROCEDURES OUTLINED IN THE SPECIFICATIONS. THE WORK OUTLINED IN THE DRAWING AND SPECIFICATIONS SHALL BE INCORPORATED INTO THE GENERAL CONTRACT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS AND MEANS REQUIRED TO EXECUTE THE GENERAL CONTRACT AND PROVIDE A FINISHED PRODUCT.
2. VERIFY MECHANICAL AND ELECTRICAL CONDITIONS FOR SCOPE AND INTERFACE. CONTRACTOR SHALL COORDINATE LOCATION FOR ALL MECHANICAL AND ELECTRICAL ITEMS WITH GENERAL CONSTRUCTION. REVIEW ANY DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION AND/OR FABRICATION.
3. PROTECT ALL SITE LOCATIONS THAT ARE NOT DESIGNATED FOR REMOVAL. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. ALL DIMENSIONS ARE TO FACE OF FINISHED WALL, UNLESS NOTED OTHERWISE. REVIEW PLACEMENT OF WALLS WITH DETAILS AND FURNISHINGS, CASEWORK, OR MECHANICAL AND ELECTRICAL ITEMS. REVIEW ANY DISCREPANCIES WITH ARCHITECT PRIOR TO CONSTRUCTION AND/OR FABRICATION. ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL FIELD DIMENSIONS SHALL BE VERIFIED PRIOR TO SUBMITTING SHOP DRAWINGS, ORDERING RELATED MATERIALS, DEMOLITION OR CONSTRUCTION.
5. PROVIDE WOOD BLOCKING BEHIND ALL WALL STOPS, FINISH TRIM, BUILDING HARDWARE AND TOILET ACCESSORIES TO BE MOUNTED ON WALLS. PROVIDE CONTINUOUS WOOD BLOCKING HORIZONTALLY AND VERTICALLY, BEHIND ALL WALL HUNG EQUIPMENT, ACCESSORIES, COUNTERS AND ANY OTHER BUILDING MATERIALS REQUIRING ANCHORING TO WALLS, CEILINGS, AND FLOORS. VERIFY WITH ALL TRADES FOR THESE ITEMS PRIOR TO COVERING THE STRUCTURE. PROVIDE WOOD BLOCKING IN WALLS FOR OWNER PROVIDED AND INSTALLED ARTWORK, COORDINATE LOCATIONS WITH OWNER.
6. THE OWNER HAS CONTRACTED SEPARATELY FOR THE EQUIPMENT SPECIFICALLY NOTED AS N.I.C. ON THE DRAWINGS. VERIFY SIZE AND LOCATION PRIOR TO LAYING OUT WORK.
7. CONTRACTOR SHALL CONTACT THE ARCHITECT IN THE EVENT THAT UNFORESEEN CONDITIONS ARE ENCOUNTERED.
8. ALL WOOD STUDS ARE 2X4 UNLESS NOTED OTHERWISE.
9. ALL MATERIALS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ALL MECHANICAL OPENINGS AND OTHER OPENINGS OR PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED TO MAINTAIN RATINGS.
11. ALL WORK SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
12. WHERE FIRE EXTINGUISHER CABINETS OCCUR IN GWB/METAL STUD PARTITIONS, PROVIDE AND INSTALL GWB ENCLOSURE BEHIND FIRE EXTINGUISHER CABINET TO PROVIDED CONTINUOUS SOUND BARRIER (OR IF THE WALL IS A FIRE WALL, TO PROVIDED CONTINUOUS FIRE BARRIER.)
13. ALL STUDS SHALL BE HELD AT LEAST 1/4" AWAY FROM STRUCTURAL STEEL COLUMNS.
14. SEE STRUCTURAL FOR CONTROL JOINTS AT INTERIOR SLABS-ON-GRADE.
15. IN SOME INSTANCES, THERMAL AND SOUND BATT INSULATION HAS BEEN OMITTED FROM THE DETAILS FOR CLARITY. SEE WALL TYPES.
16. THE CONTRACTOR SHALL PERFORM ALL TESTS AS SPECIFIED OR AS NECESSARY TO DEMONSTRATE COMPLETE SATISFACTORY INSTALLATIONS OF ALL SYSTEMS PROVIDED UNDER THIS CONTRACT.
17. IF INSTANCES ARISE DURING CONSTRUCTION OF THE PROJECT THAT REQUIRE PENETRATIONS OF STRUCTURAL MEMBERS DUE TO METHODS OF ROUTING DUCTS, PIPES, ETC. DIFFERENT FROM ROUTING SHOWN ON THE DRAWINGS, COSTS FOR PENETRATION OF STRUCTURAL MEMBERS SHALL BE BORNE BY THE CONTRACTOR REQUIRING THE PENETRATION. BEFORE PENETRATION THROUGH A STRUCTURAL MEMBER CAN BE MADE, THE CONTRACTOR SHALL INFORM THE ARCHITECT OF HIS/HER INTENT AND SHALL AWAIT INSTRUCTIONS FROM THE ARCHITECT AS TO EXACT PLACEMENT OR, AND DETAILS FOR, SUCH PENETRATIONS.
18. HARDWOOD IS TO BE OAK UNLESS NOTED OTHERWISE.
19. ALL CEILING HEIGHTS LISTED ON REFLECTED CEILING PLAN ARE FROM THE FINISH FLOOR OF THE LISTED ROOM UNLESS NOTED OTHERWISE.
20. ALL CMU IS 8" THICK UNLESS NOTED OTHERWISE.
21. ALL ANGLES ON PLAN ARE 90 DEGREES OR 45 DEGREES UNLESS NOTED OTHERWISE.
22. TYPICALLY OFFSET ELECTRICAL BOXES INSTALLED ON OPPOSITE SIDES OF A PARTITION WALL. SEE ELECTRICAL SPECIFICATIONS.
23. AT THE LARGE SCALE COLUMN PLAN DETAILS, WALL TYPES ARE INDICATED. FOR CLARITY, IN SOME INSTANCES, NOT ALL STUDS AND/OR FURRING ARE SHOWN ON THE DETAIL. CONTRACTOR SHALL FRAME USING NORMAL FRAMING METHODS AND SHALL ALSO COMPLY WITH THOSE OUTLINED IN THE SPECIFICATIONS.
24. CONTRACTOR SHALL VISIT THE SITE AND REVIEW CONDITIONS PRIOR TO BIDDING.
25. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS FOR WORKABILITY, ADJACENT CONDITIONS, EFFECTS AND ACCESSIBILITY. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO ORDERING RELATED MATERIALS OF CONSTRUCTION.
26. EXISTING BUILDING ARCHITECTURAL FIN. FLOOR ELEVATION 100'-0" = CIVIL ELEVATION 978.80
PROPOSED EXISTING BUILDING ARCHITECTURAL FIN. FLOOR ELEVATION 100'-6" = CIVIL ELEVATION 980.30
BUILDING ADDITION ARCHITECTURAL FIN. FLOOR ELEVATION 101'-4" = CIVIL ELEVATION 980.13
27. UNLESS NOTED OTHERWISE. THRU WALL FLASHING AND WEEP HOLES SHALL TERMINATE 8" MINIMUM ABOVE GRADE. PROVIDE WEEP HOLES @ TOP OF WALL MINUS 16" TYP.
28. CONTRACTOR TO PATCH ALL HOLES (NEW & EXISTING) IN RATED WALLS ABOVE CEILING AS REQUIRED TO MAINTAIN OR PROVIDE RATING INDICATED.
29. COORDINATE SCOPE OF DEMOLITION WITH NEW CONSTRUCTION.
30. PROTECT ALL EXISTING MATERIALS AND EQUIPMENT TO REMAIN.
31. PROVIDE DUST PROTECTION AS REQUIRED TO ISOLATE CONSTRUCTION AREAS. DUST PROTECTION SHALL BE 3 5/8" METAL STUD FRAMING WITH 5/8" GWB BOTH SIDES, WITH TAPED JOINTS AT RATED CONDITIONS AND 5/8" GWB ON OWNER OCCUPIED SIDE WITH UNTAPPED JOINTS AT NON-RATED CONDITIONS. CONTRACTOR RESPONSIBLE FOR CLEANING AREAS SOILED BY CONSTRUCTION ACTIVITY.
32. IT IS THE INTENT OF THIS CONTRACT THAT ALL AREAS AFFECTED BY CONSTRUCTION TO BE A FINISHED AND COMPLETE PROJECT. CONTRACTOR SHALL PATCH, REPAIR, AND ADJUST AS REQUIRED TO ACHIEVE THIS FINISHED PRODUCT. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WORK AFFECTED OR DAMAGED BY DEMOLITION TO MATCH NEW CONSTRUCTION. FINISH ALL SURFACES CORNER TO CORNER.
33. PATCH FLOORS IN AREAS OF DEMOLITION TO ACHIEVE A SMOOTH SURFACE FOR NEW FLOORING. IT IS ANTICIPATED THAT THE FLOOR LEVEL CHANGES WILL OCCUR AT AREAS WHERE WALLS ARE TO BE REMOVED. CONTRACTOR SHALL PATCH AND REPAIR FLOOR TO OBTAIN 1/8" PER 5 FOOT SLOPE MAXIMUM FINISHED SURFACE SLOPE.
34. WHENEVER THE CONTRACTOR ENCOUNTERS MATERIAL THAT COULD POSSIBLY BE ASBESTOS OR CONTAIN ASBESTOS, THE CONTRACTOR SHALL STOP WORK AND CONTACT THE ARCHITECT IMMEDIATELY FOR DIRECTION. DO NOT DISTURB THE MATERIAL IN ITS LOCATION. CONTRACTORS SHALL AND MUST COORDINATE REMOVAL OF ANY ITEMS SUSPECTED OF CONTAINING ASBESTOS WITH THE OWNER'S ABATEMENT CONTRACTOR.
35. PROVIDE NEW LINTELS, AS SCHEDULED, AT ALL MASONRY OPENINGS CREATED BY DEMOLITION. INCREASE DEMOLITION AREA AT MASONRY OPENINGS THAT RESULT IN A 16 INCH OR LESS SECTION OF CONCRETE MASONRY UNIT (CMU) REMAINING, AND PROVIDE NEW LINTEL AS DETAILED FOR INCREASED SIZE OF OPENING.
36. ALL CONCRETE MASONRY UNIT (CMU) PATCHING SHALL BE SIZE AND TYPE TO MATCH EXISTING CMU AND SHALL BE TOOTHED-IN AT EXPOSED LOCATIONS. CONCRETE OR PLASTER PATCH IS UNACCEPTABLE AT CMU WALLS.

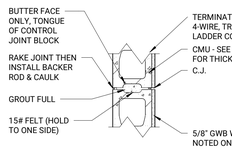


D - TYP. C.J.'S AT FRAMES ADJACENT TO WALL | C - TYP. C.J.'S AT ADJACENT FRAMES | B - TYP. C.J.'S AT FRAME WINDOW | A - TYP. C.J.'S AT FRAME DOOR

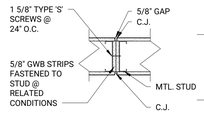
3 A0-0 TYPICAL C.J. DETAILS AT GWB
1" = 1'-0" 0' 1' 2'



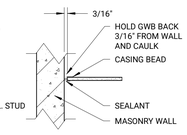
D - EXTERIOR



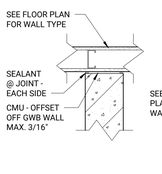
C - INTERIOR



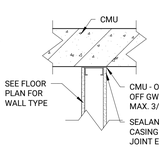
B - INTERIOR



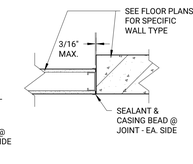
A - CAULK JT. DETAIL @ MASONRY WALL



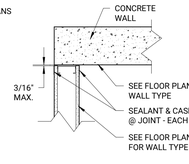
D - CMU TO DRYWALL TRANSITION



C - DRYWALL TO CMU TRANSITION



B - (TYP.) GWB/CMU ABUTMENT IN THE SAME PLANE



A - CONCRETE TO DRYWALL TRANSITION

2 A0-0 CONTROL JOINT DETAILS
1" = 1'-0" 0' 1' 2'

1 A0-0 WALL TERMINATION DETAILS
1" = 1'-0" 0' 1' 2'

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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

ARCHITECTURAL NOTES

A0-0

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

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DEMOLITION GENERAL NOTES

1. COORDINATE WITH MECHANICAL AND ELECTRICAL SHEETS FOR INFORMATION REGARDING NEW MECHANICAL PLUMBING AND ELECTRICAL ITEMS THAT REQUIRE EXISTING FLOOR SLAB, CEILING, AND WALL REMOVAL. ALSO, SEE MECHANICAL AND ELECTRICAL SHEETS FOR REMOVAL OF ALL MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS. ALL PLUMBING FIXTURES, LIGHTING FIXTURES, AND OUTLETS SHALL BE CAPPED BELOW SLABS IN ACCORDANCE WITH PREVAILING CODE REQUIREMENTS.
2. DISCONNECT AND CAP ALL SERVICES (ELECTRICAL, MECHANICAL, AND PLUMBING) IN EXISTING WALLS, FLOORS, AND CEILINGS TO BE REMOVED.
3. THE OWNER SHALL HAVE THE FIRST RIGHT OF SALVAGE FOR ALL ITEMS BEING REMOVED OR DEMOLISHED. IF OWNER DECLINES, THE CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF PROPERLY. VERIFY OWNER'S INTENT PRIOR TO REMOVAL OR DEMOLITION.
4. REMOVE ALL WALLS, DOORS, WINDOWS, AND OTHER ITEMS SHOWN DASHED IN THE DRAWINGS. VERIFY THE SCOPE OF DEMOLITION WITH THE NEW CONSTRUCTION DRAWINGS. CONTRACTOR SHALL REMOVE ANY WALL OR ITEM NOT SPECIFICALLY DESIGNATED OR NOTED THAT WOULD BE REQUIRED TO PROVIDE A FINISHED PRODUCT AS PER THE PLANS AND SPECIFICATIONS.
5. SEE DEMOLITION DRAWINGS FOR SALVAGE ITEMS.
6. PATCH FLOORS IN AREAS OF DEMOLITION TO ACHIEVE A SMOOTH SURFACE FOR NEW FLOORING AND WALLS AS REQUIRED TO RECEIVE NEW FLOOR FINISHES INDICATED ON THE ROOM FINISH SCHEDULE. FLOOR DEVIATIONS OVER 1/8" PER 5 FEET SHALL BE GROUND OUT OR FILLED TO ACHIEVE UNIFORM TRANSITION.
7. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING TO DETERMINE THE TOTAL QUANTITIES AND SCOPE OF DEMOLITION THAT IS TO OCCUR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO ITS ORIGINAL CONDITION.
9. ALL WALLS INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL ELECTRICAL OUTLETS, SWITCHES, AND CONDUITS, TELEPHONE OUTLETS, WIRING, MECHANICAL PIPING, BASES AND PLUMBING, ETC.
10. ALL WINDOWS INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL WINDOW TREATMENTS, ETC., UNLESS NOTED OTHERWISE.
11. COORDINATE ALL DEMOLITION WORK BETWEEN ALL TRADES.
12. CONTRACTOR SHALL NOTIFY ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING BEFORE PROCEEDING.
13. ALL INFORMATION SHOWN ON THE DEMOLITION PLAN, INCLUDING DOORS, WALLS, CHASES, EQUIPMENT, CEILINGS, ETC., ARE NOT INTENDED TO REPRESENT THE TOTAL SCOPE OF THE DEMOLITION CONTRACT. THE INTENT OF THESE DRAWINGS IS TO ASSIST THE GENERAL CONTRACTOR WITH ESTIMATION ONLY WITHOUT LIMITING DEFINITION OF SCOPE. THE INTENT OF DEMOLITION IS TO COMPLETELY REMOVE ALL ITEMS, EXCEPT AS NOTED OTHERWISE, WITHIN THE CONTRACT AREA TO THE ORIGINAL STRUCTURE AS NECESSARY TO PREPARE FOR NEW CONSTRUCTION WORK SHOWN IN THESE CONTRACT DOCUMENTS.
14. ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY, AND SHALL BE VERIFIED AND COORDINATED WITH NEW CONSTRUCTION.
15. AT AREAS WHERE FLOOR REMOVAL IS REQUIRED FOR INSTALLATION OF NEW FOOTINGS, PLUMBING, ELECTRICAL, DUCTWORK, ETC., EXISTING CONCRETE SLAB SHALL BE SAW CUT AT PERIMETER OF DEMO AREA AND REPLACED WITH 4-INCH GRANULAR FILL, 15 MIL. VAPOR BARRIER AND 4-INCH CONCRETE WITH MESH.
16. COORDINATE REMOVAL OF ALL STRUCTURAL ITEMS WITH STRUCTURAL PLANS PRIOR TO DEMOLITION. REFER TO SPECIFICATION SECTION 02 41 00 FOR ADDITIONAL LANGUAGE.
17. CONTRACTOR SHALL HAUL ALL DEMOLITION DEBRIS COMPLETELY AWAY FROM THE SITE AND DISPOSE OF PROPERLY.
18. GENERAL CONTRACTOR SHALL DISASSEMBLE AND REMOVE SYSTEMS FURNITURE AND/OR SHELVING FROM ROOMS TO RECEIVE NEW CARPET. GENERAL CONTRACTOR TO REASSEMBLE AND REINSTALL SYSTEMS FURNITURE AND/OR SHELVING AFTER CARPET INSTALLATION. SEE THE 6-SERIES SHEETS FOR ADDITIONAL INFORMATION. OWNER TO REMOVE AND REPLACE TYPICAL CLASSROOM LOOSE FURNITURE AS REQUIRED. COORDINATE WITH OWNER.
19. REMOVE ROOM IDENTIFICATION SIGNS AS DIRECTED BY THE OWNER. PATCH WALL AS REQUIRED. COORDINATE EXTENTS OF SIGNAGE SCOPE WITH THE SIGNAGE ALLOWANCE IN SPECIFICATION SECTION 01 23 00
20. REMOVE AND REPLACE CEILING PADS AND GRID AS REQUIRED FOR INSTALLATION OF TECHNOLOGY, FIRE/SMOKE DETECTION, AND MECHANICAL UPGRADES THROUGHOUT THE BUILDING.
21. WHENEVER THE CONTRACTOR ENCOUNTERS MATERIAL THAT COULD POSSIBLY BE ASBESTOS OR CONTAIN ASBESTOS, THE CONTRACTOR SHALL STOP WORK AND CONTACT THE ARCHITECT IMMEDIATELY FOR DIRECTION. DO NOT DISTURB THE MATERIAL IN ITS LOCATION. CONTRACTORS SHALL AND MUST COORDINATE REMOVAL OF ANY ITEMS SUSPECTED OF CONTAINING ASBESTOS WITH THE OWNER'S ABATEMENT CONTRACTOR.

DEMOLITION FLAG NOTES

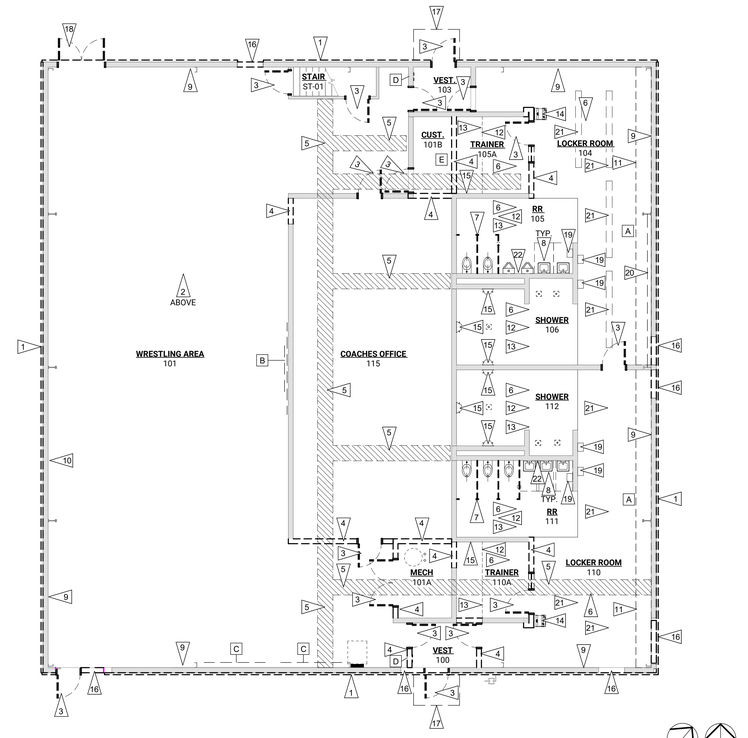
FLAG NOTES APPLY TO SHEET AD1-1 ONLY

1. REMOVE ALL METAL BUILDING WALL PANELS AND ASSOCIATED WALL INSULATION.
2. REMOVE ALL METAL BUILDING ROOF PANELS AND ASSOCIATED ROOF INSULATION.
3. REMOVE DOOR, ASSOCIATED HARDWARE, FRAME AND ANY ASSOCIATED GLAZING WHERE SIDE LITES OCCUR.
4. REMOVE PORTION OF MASONRY WALL SHOWN DASHED. PATCH AND PREP FLOOR AS REQUIRED FOR NEW FINISHES, COORDINATE EXTENT WITH ARCHITECTURAL PLANS.
5. REMOVE PORTION OF EXISTING SLAB ON GRADE, SHOWN ▨, AS REQUIRED FOR NEW PLUMBING PIPING BELOW GRADE. COORDINATE EXTENT WITH MECHANICAL AND PLUMBING DRAWINGS. FIELD VERIFY ALL LOCATIONS, TYP.
6. REMOVE ACOUSTICAL CEILING TILE AND ASSOCIATED GRID IN THEIR ENTIRETY, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS TO BE REMOVED.
7. REMOVE TOILET PARTITIONS IN THEIR ENTIRETY. PREP ADJACENT SURFACES FOR NEW PARTITIONS AT SAME LOCATIONS. COORDINATE WITH FLOOR PLANS.
8. REMOVE PLUMBING FIXTURES AND ASSOCIATED PIPING, SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH CONCRETE SLAB OR CMU AS REQUIRED TO PREP FOR NEW FINISHES, AND NEW 6" ELEVATION CHANGE.
9. REMOVE INTERIOR METAL BUILDING WALL PANELS (PANELS EXTEND FROM FINISH FLOOR TO 8'-0" AFF).
10. REMOVE WALL PADS AND ASSOCIATED BACKING IN THEIR ENTIRETY.
11. REMOVE CONCRETE BASE BELOW EXISTING LOCKERS.
12. REMOVE FLOOR TILE, AND BASE IN ITS ENTIRETY, PREPARE FLOOR AREA FOR NEW FLOOR FINISHES.
13. REMOVE WALL TILE THIS ROOM IN ITS ENTIRETY. PATCH WALL AND PREP FOR NEW FINISHES.
14. REMOVE DRINKING FOUNTAIN. SEE MECH FOR ADDITIONAL INFO.
15. REMOVE SHOWER HEAD AND ASSOCIATED HARDWARE. PREP WALL FOR NEW FINISHES AND FIXTURES. SEE MECH FOR ADDITIONAL INFO.
16. REMOVE PORTION OF PEMB WALL FRAMING AS REQUIRED TO ACCOMMODATE NEW OPENING. COORDINATE EXTENTS OF REMOVAL WITH THE ARCHITECTURAL FLOOR PLAN. SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
17. REMOVE METAL ROOF OVERHANG IN ITS ENTIRETY.
18. REMOVE DOOR, ASSOCIATED HARDWARE, AND FRAME. WHERE NEW DOOR AND FRAME ARE NOT REPLACING THE REMOVED DOOR, INFILL PEMB FRAME TO MATCH EXISTING. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
19. REMOVE HAND DRYERS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
20. REMOVE STEEL CROSS BRACING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
21. REMOVE BENCH IN ITS ENTIRETY.
22. REMOVE PORTION OF WALL REQUIRED FOR INSTALLATION OF NEW PLUMBING FIXTURES.

DEMOLITION SALVAGE NOTES

NOTES APPLY TO SHEET AD1-1 ONLY. NOTES MAY NOT BE USED ON EACH SHEET.
*** OWNER HAS FIRST RIGHTS TO ALL SALVAGED MATERIAL.**

- A REMOVE AND SALVAGE LOCKERS AND TURN OVER TO THE OWNER.
- B REMOVE AND SALVAGE MARKERBOARD AND PROJECTION SCREEN AND TURN OVER TO THE OWNER.
- C REMOVE AND SALVAGE WALL MOUNTED WOOD DISPLAY AND TURN OVER TO THE OWNER.
- D REMOVE AND SALVAGE FIRE EXTINGUISHER AND CABINET AND TURN OVER TO THE OWNER.
- E REMOVE AND SALVAGE ICE MAKER FOR RELOCATION. SEE FLOOR PLAN FOR NEW LOCATION.



1 AD1-1 DEMOLITION PLAN
1/8" = 1'-0" 0' 8' 16'

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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

DEMOLITION PLAN

AD1-1

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

LEFT BINDING EDGE

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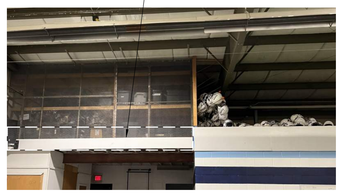
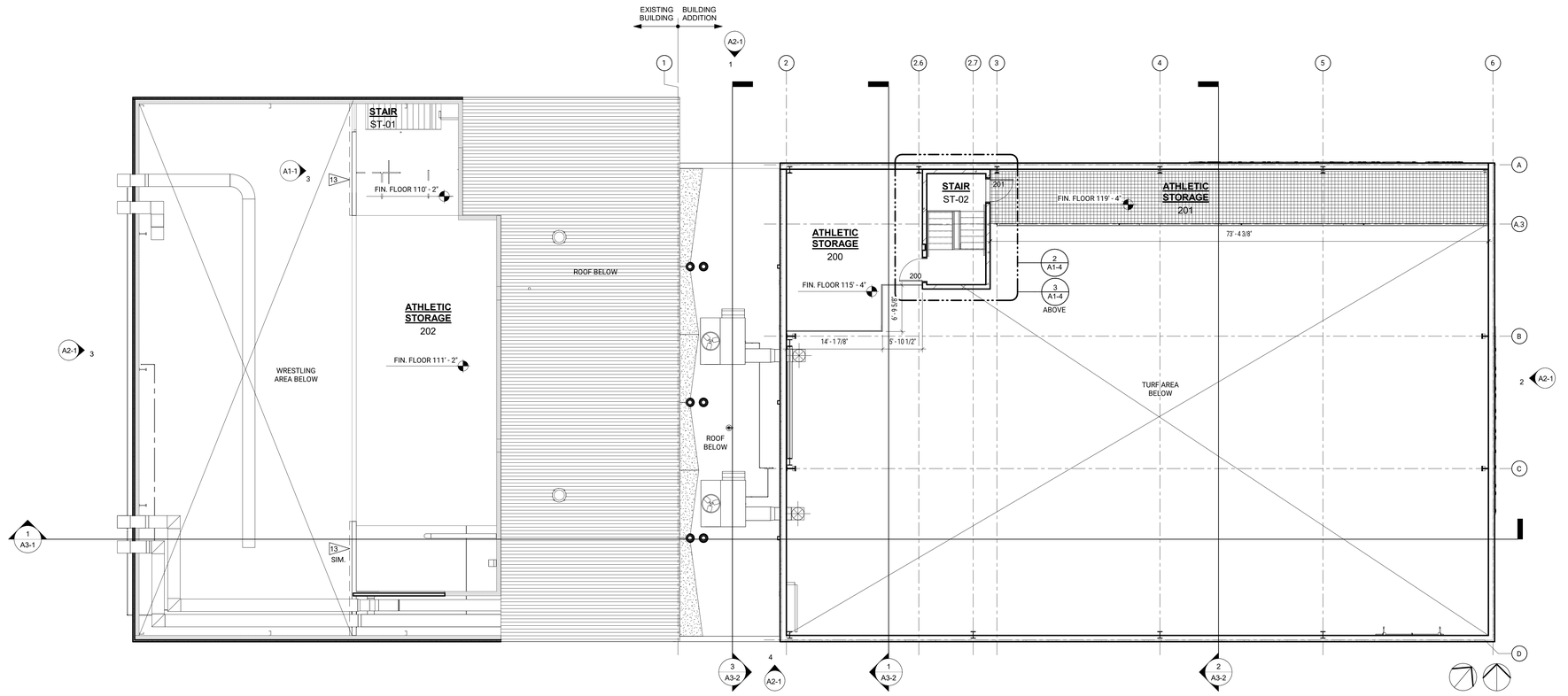
NOTE: THIS SHEET ORIGINALLY PRINTED IN COLOR



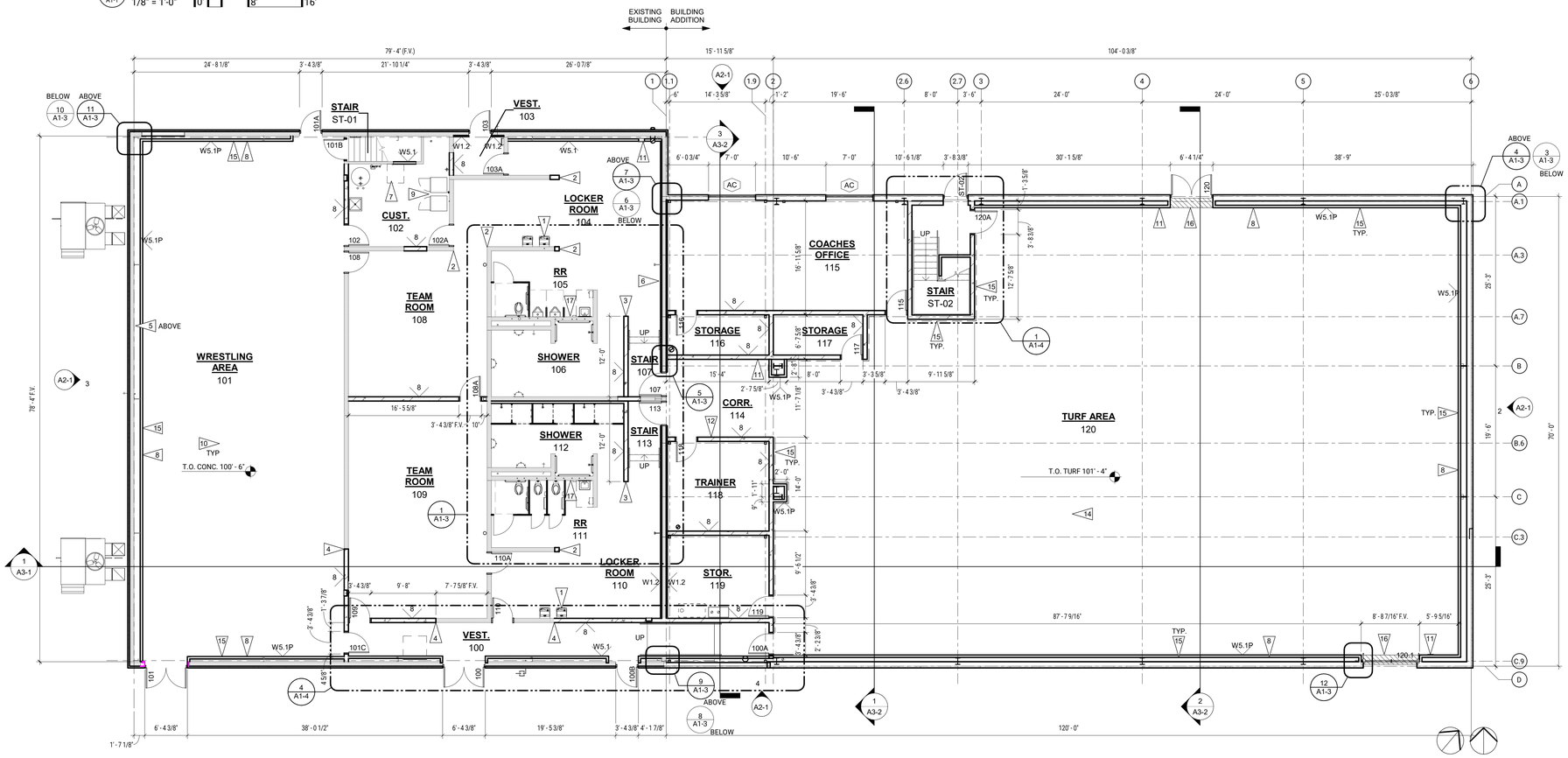
3 A1-1 PLYWOOD EXTENSION AT TOP OF CMU WALL

1/8" = 1'-0" 0' 8' 16'



2 A1-1 FLOOR PLAN - UPPER LEVEL

1/8" = 1'-0" 0' 8' 16'



1 A1-1 FLOOR PLAN - MAIN LEVEL

1/8" = 1'-0" 0' 8' 16'

FLOOR PLAN GENERAL NOTES

1. ALL GWB WALLS ARE TYPE W5.2A UNLESS NOTED OTHERWISE.
2. ALL INTERIOR CMU WALLS ARE TYPE 8 UNLESS NOTED OTHERWISE.
3. SEE DETAIL 3/A0-0 FOR TYPICAL GWB CONTROL JOINT LOCATIONS AT INTERIOR WALLS. SEE THE REFLECTED CEILING PLAN FOR ADDITIONAL CONTROL JOINT LOCATIONS.
4. 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.

1. NEW DRINKING FOUNTAIN. SEE MECH FOR ADDITIONAL INFORMATION.
2. 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).
3. BULLNOSE CMU.
4. ALIGN NEW CMU WALL WITH FACE OF EXISTING CMU.
5. EXISTING METAL BUILDING CROSS BRACING ABOVE TO REMAIN.
6. EXISTING METAL BUILDING CROSS BRACING. SEE STRUCTURAL DRAWINGS FOR RELOCATION OF CROSS BRACING.
7. ICE MACHINE. OWNER PROVIDED, CONTRACTOR INSTALLED.
8. 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.
9. OWNER PROVIDED WASHER / DRYER. SEE MECHANICAL DRAWINGS FOR DRYER VENTING.
10. NEW 6" CONCRETE SLAB ON TOP OF EXISTING CONCRETE SLAB IN EXISTING BUILDING. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
11. FEC LOCATION.
12. AED LOCATION.
13. PLYWOOD PAINTED P-1 TO MATCH CMU BELOW. MATCH HEIGHT AND ALIGN WITH EXISTING CONDITION. SEE DETAIL 3/A1-1 FOR ADDITIONAL INFO.
14. RECESS CONCRETE SLAB 1 1/2" FOR SYNTHETIC TURF IN TURF AREA 120. TOP OF CONCRETE TO BE 101'-2 1/2". TOP OF SYNTHETIC TURF TO BE 101'-4". SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
15. WALL PADDING BY OWNER.
16. TOP OF CONCRETE AT 101'-4" AT THIS LOCATION. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
17. PATCH CMU WALL AS REQUIRED FOR INSTALLATION OF NEW PLUMBING FIXTURES AND NEW FINISHES AT REMOVAL OF EXISTING PLUMBING FIXTURES.

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Omaha, NE 68164

#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

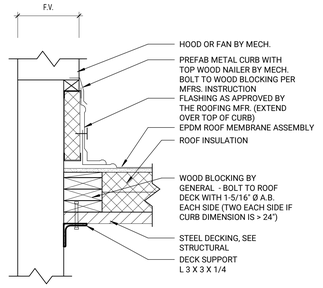
FLOOR PLANS

A1-1

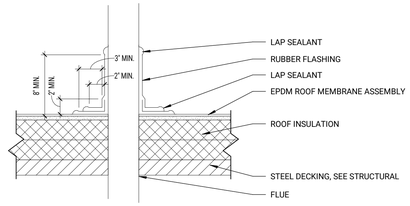
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026

LEFT BINDING EDGE

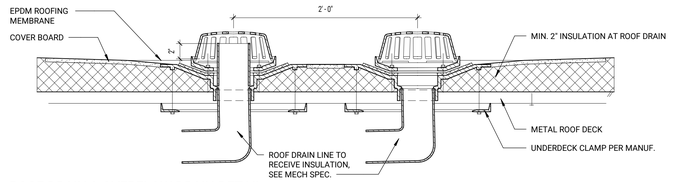
2/24/2026 1:25:54 PM



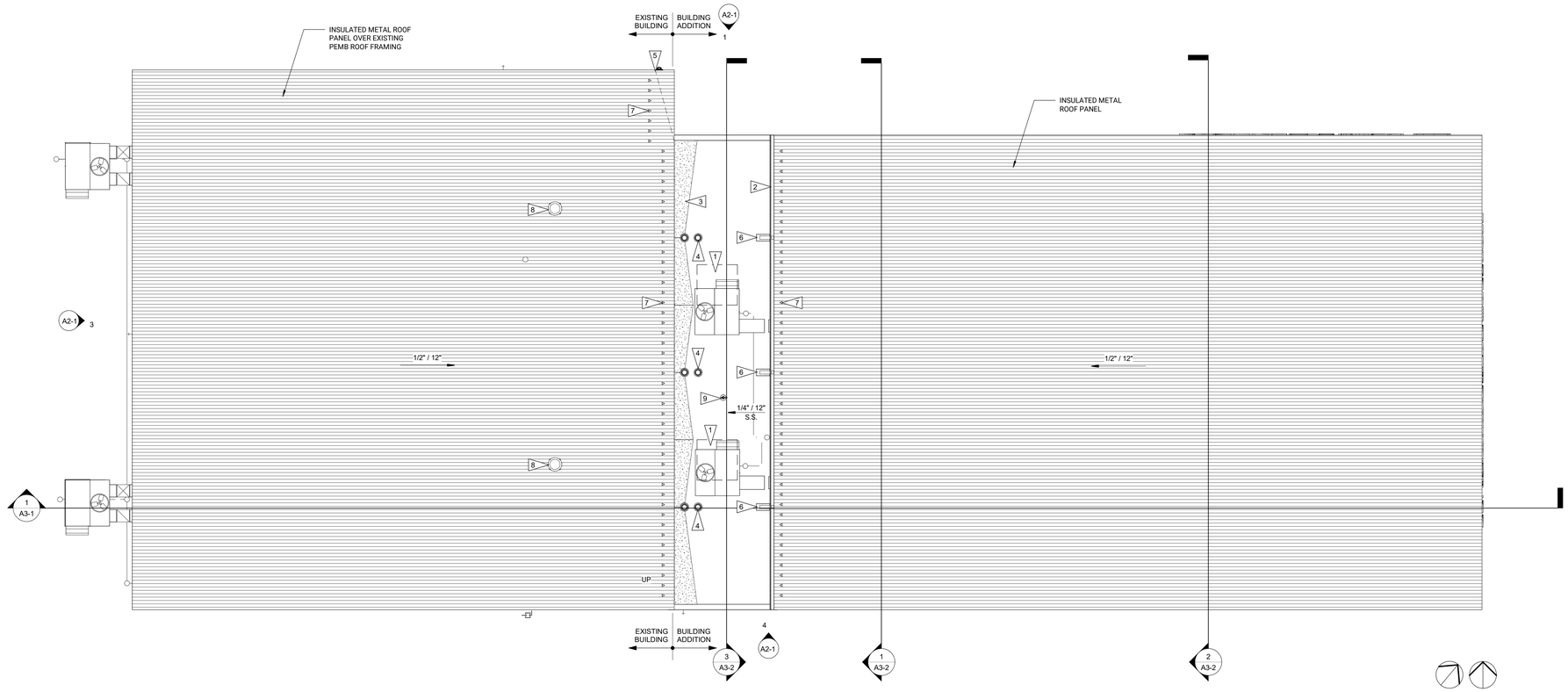
3 A1-2 ROOF CURB
1 1/2" = 1'-0" 0" 8" 1'-4"



4 A1-2 FLUE ROOF PENENTRATION
1 1/2" = 1'-0" 0" 8" 1'-4"



2 A1-2 ROOF DRAIN & OVERFLOW DRAIN DETAIL
1 1/2" = 1'-0" 0" 8" 1'-4"



1 A1-2 ROOF PLAN
1/8" = 1'-0" 0" 8" 16'

ROOF PLAN GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS FOR WORKABILITY, ADJACENT CONDITIONS, EFFECTS, AND ACCESSIBILITY. ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO ORDERING RELATED MATERIALS OR CONSTRUCTION.
2. PROVIDE MINIMUM THICKNESS OF INSULATION AS SCHEDULED. SEE SPECIFICATION SECTION 07 53 23 EPDM THERMOSET SINGLE-PLY ROOFING.
3. SLOPE ROOF TO ROOF DRAINS, TYPICAL. PROVIDE CRICKETS TO DRAINS AS REQUIRED TO PROVIDE POSITIVE WATER FLOW WITH NO PONDING.
4. TERMINATE AND FLASH ALL ROOFING IN A WATERTIGHT MANNER AS RECOMMENDED BY THE ROOFING MANUFACTURER.
5. INSTALL AND ADJUST ALL MECHANICAL AND ELECTRICAL ITEMS AS REQUIRED TO INSTALL ROOFING. PROVIDE CRICKETS AS REQUIRED TO PROVIDE POSITIVE WATER FLOW AROUND EQUIPMENT.
6. SEE MECHANICAL DRAWINGS FOR COORDINATION OF ADDITIONAL ROOF PENETRATIONS.

ROOF PLAN FLAG NOTES

FLAG NOTES APPLY TO SHEET A1-2 ONLY

1. ROOF TOP UNITS. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. SHEET METAL GUTTER (7 x 9) AND DOWNSPOUT (4 x 6). DOWNSPOUTS TO ALIGN WITH ROOF DRAINS AT ROOF BELOW.
3. ROOF CRICKET.
4. ROOF AND OVERFLOW DRAIN.
5. DIVERTER TO DIRECT WATER TO THE LOWER ROOF.
6. PROVIDE SPLASH BLOCK WITH WALKWAY PAD BELOW AT DOWNSPOUTS.
7. PROVIDE SNOWGUARDS AT METAL ROOF PANELS.
8. ROOF MOUNTED EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
9. ROOF HYDRANT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ROOF PLAN LEGEND:

NOTE: SEE ALSO MECHANICAL DRAWINGS FOR SPECIFIC ROOF PENETRATION LOCATIONS AND DETAILS

STANDING SEAM INSULATED METAL ROOF PANEL

ROOF AND OVERFLOW DRAIN, SEE 2/A1-2

X"/12" S.S.
- ROOF SLOPE, SLOPED STRUCTURE (SEE STRUCT. FOR TYPE)
- (2) LAYERS OF INSULATION WITH STAGGERED JOINTS TYP.
- MECHANICALLY FASTENED.

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3820 HARRY LANGDON BLVD,
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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

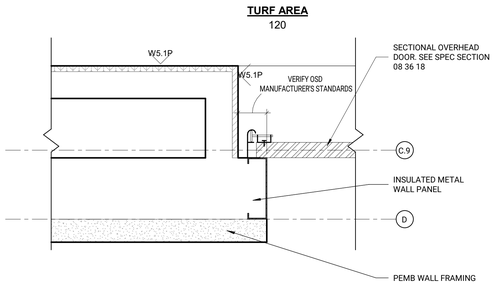
ROOF PLAN AND ROOF DETAILS

A1-2

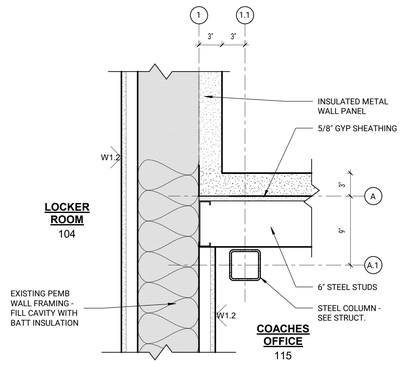
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026

LEFT BINDING EDGE

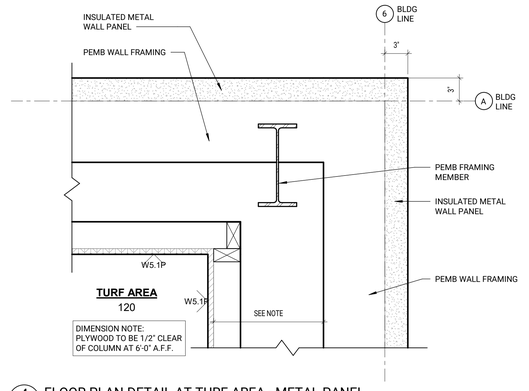
2/24/2026 1:25:58 PM



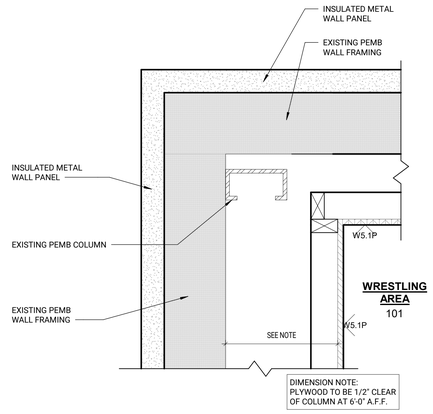
12 A1-3 FLOOR PLAN DETAIL AT OSD
1 1/2" = 1'-0"



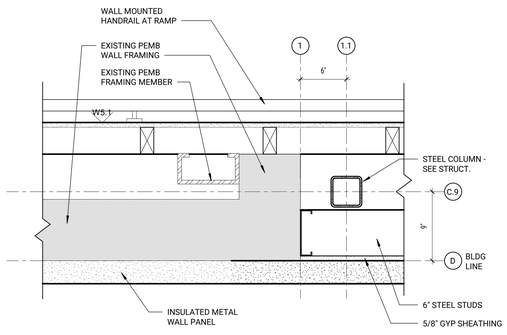
7 A1-3 FLOOR PLAN DETAIL AT COACHES OFFICE - METAL PANEL
1 1/2" = 1'-0"



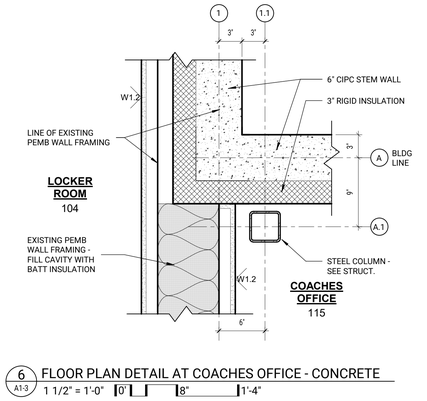
4 A1-3 FLOOR PLAN DETAIL AT TURF AREA - METAL PANEL
1 1/2" = 1'-0"



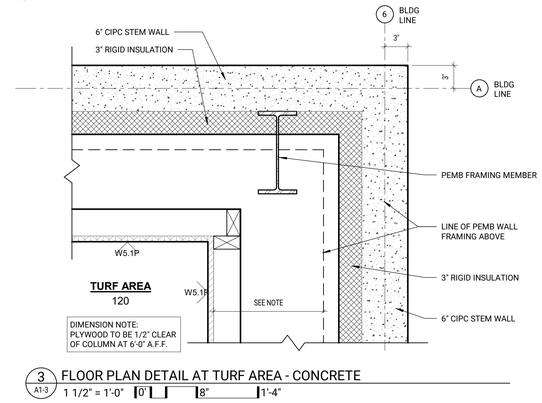
11 A1-3 FLOOR PLAN DETAIL AT WRESTLING AREA - METAL PANEL
1 1/2" = 1'-0"



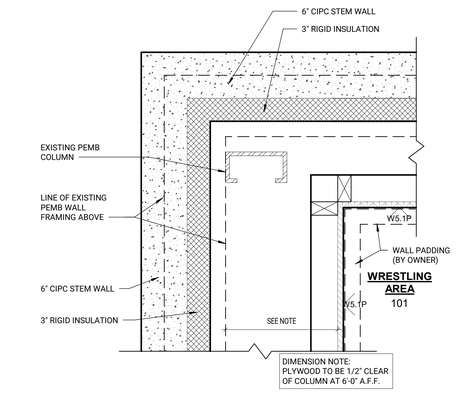
9 A1-3 FLOOR PLAN DETAIL AT CORRIDOR 120 - METAL PANEL
1 1/2" = 1'-0"



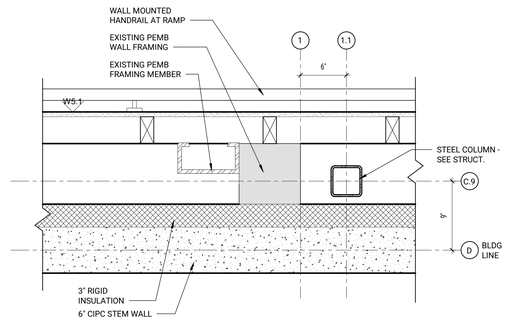
6 A1-3 FLOOR PLAN DETAIL AT COACHES OFFICE - CONCRETE
1 1/2" = 1'-0"



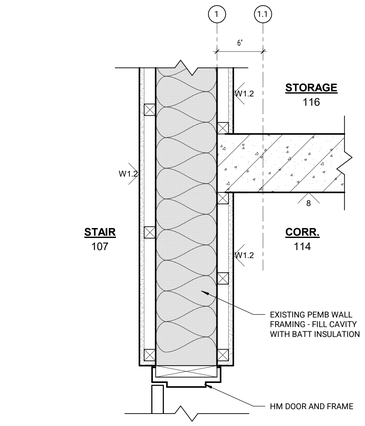
3 A1-3 FLOOR PLAN DETAIL AT TURF AREA - CONCRETE
1 1/2" = 1'-0"



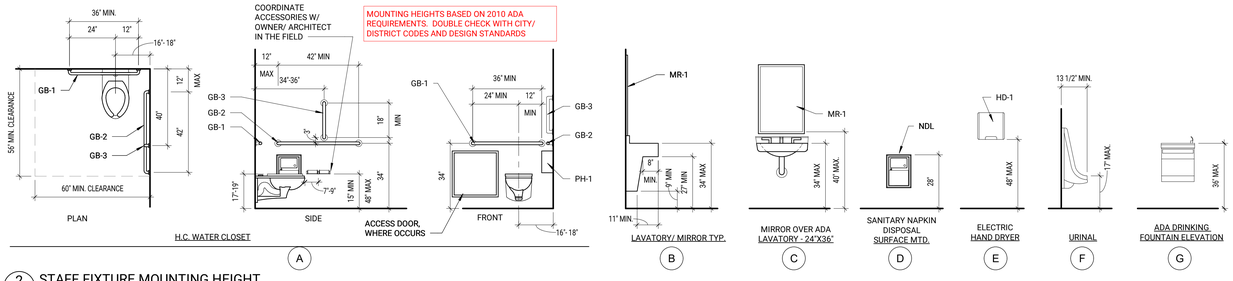
10 A1-3 FLOOR PLAN DETAIL AT WRESTLING AREA - CONCRETE
1 1/2" = 1'-0"



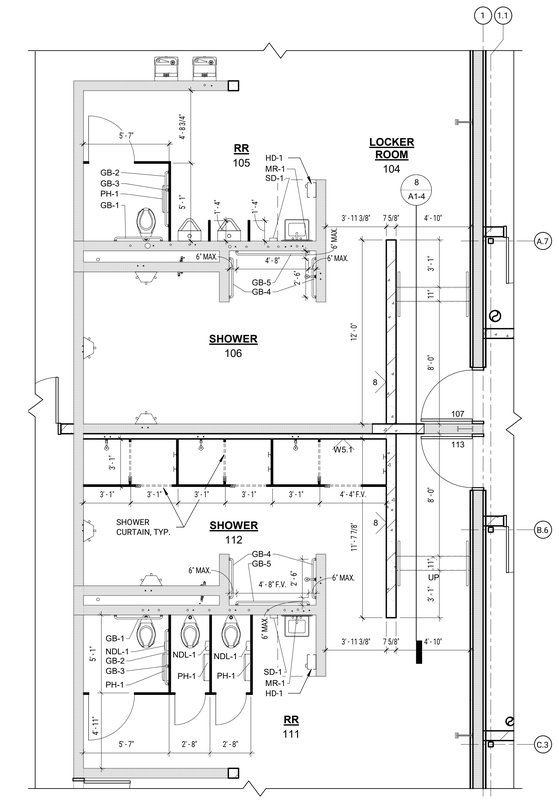
8 A1-3 FLOOR PLAN DETAIL AT CORRIDOR 120 - CONCRETE
1 1/2" = 1'-0"



5 A1-3 FLOOR PLAN DETAIL AT CORRIDOR 114
1 1/2" = 1'-0"



2 A1-3 STAFF FIXTURE MOUNTING HEIGHT
3/8" = 1'-0"



1 A1-3 ENLARGED PLAN - LOCKER ROOMS 104 & 106
1/4" = 1'-0"

TRUE NORTH

PLAN NORTH

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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

ENLARGED RESTROOM PLANS AND DETAILS

A1-3

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

LEFT BINDING EDGE

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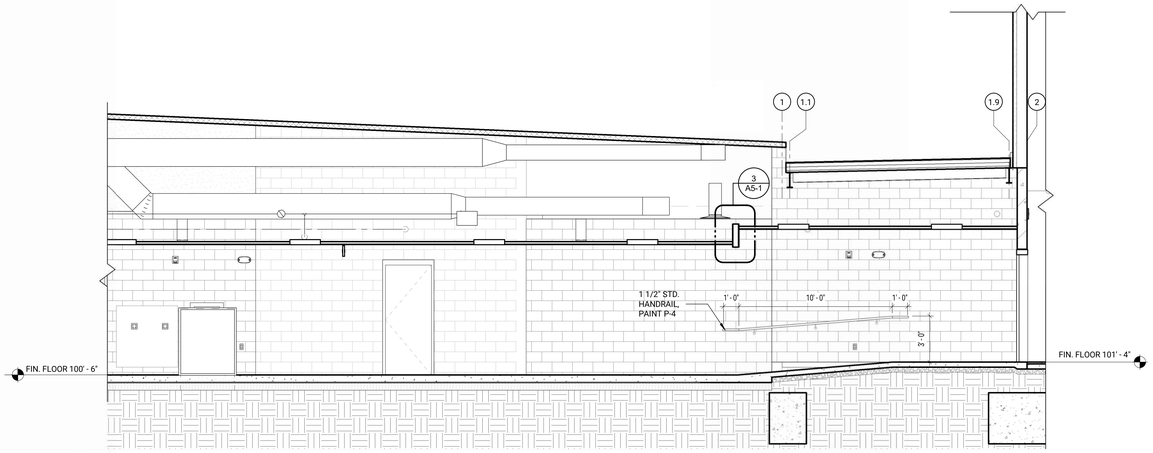
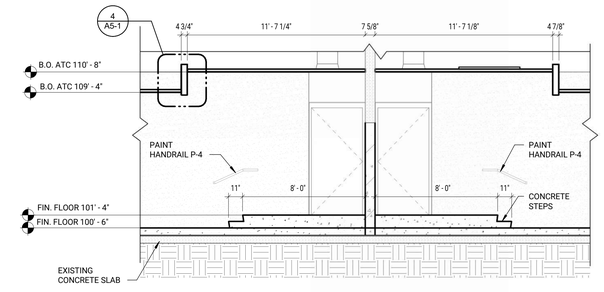
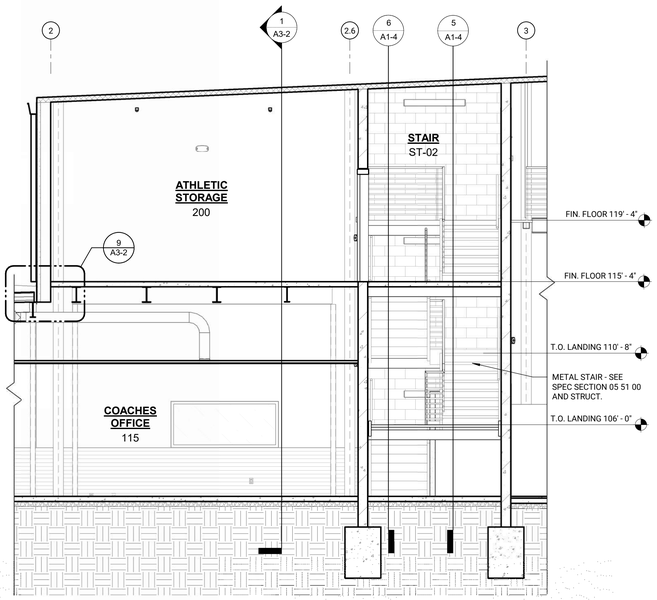


9 A1-4 SECTION AT RAMP - LOOKING NORTH
1/4" = 1'-0" 0' 4' 8'



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



7 A1-4 SECTION - STAIR ST-02 LOOKING NORTH
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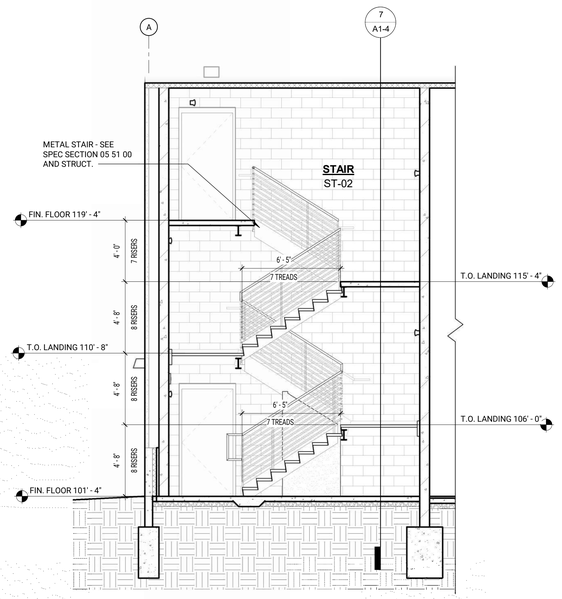
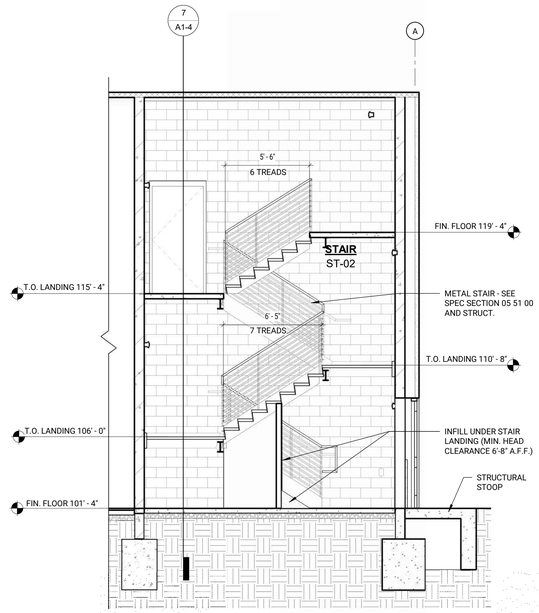
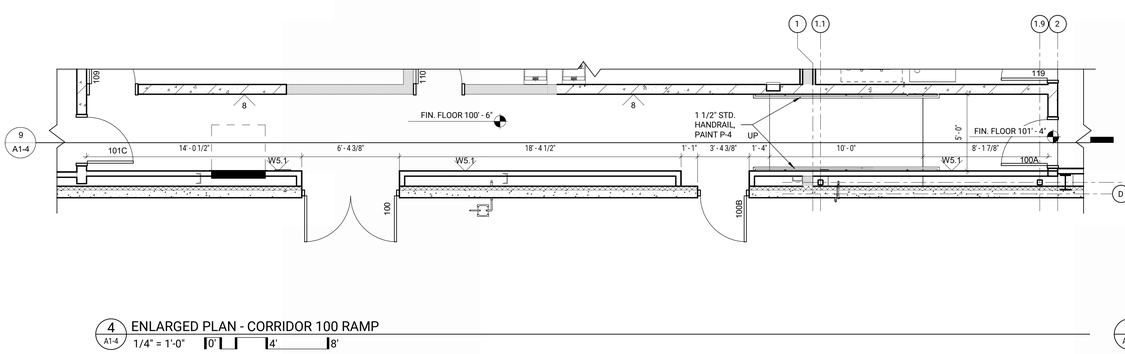


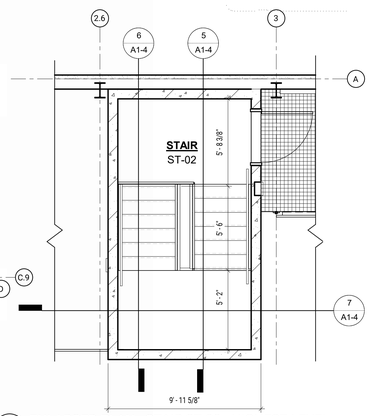
6 A1-4 SECTION - STAIR ST-02 LOOKING EAST
1/4" = 1'-0" 0' 4' 8'



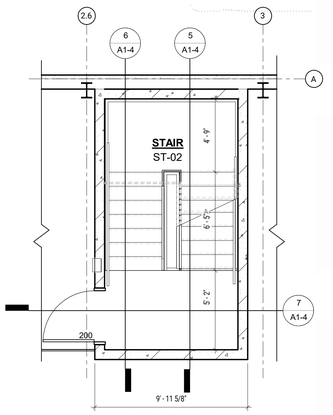
5 A1-4 SECTION - STAIR ST-02 LOOKING WEST
1/4" = 1'-0" 0' 4' 8'



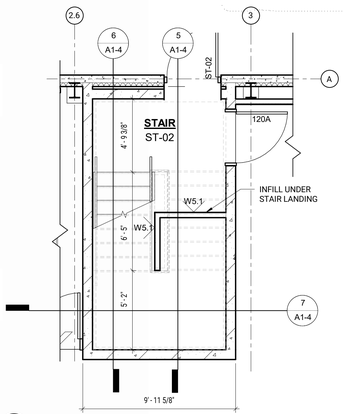
4 A1-4 ENLARGED PLAN - CORRIDOR 100 RAMP
1/4" = 1'-0" 0' 4' 8'



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



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



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

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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

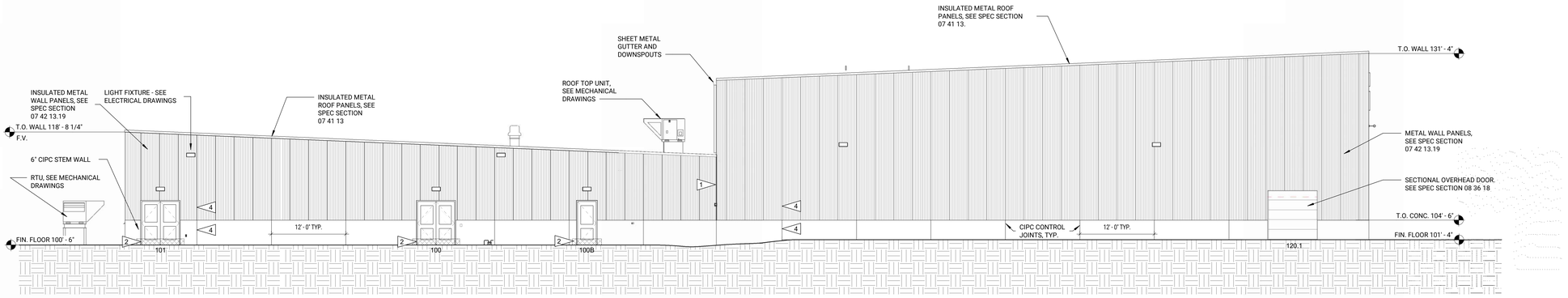
LEFT BINDING EDGE

2/24/2026 1:26:08 PM

ELEVATION FLAG NOTES

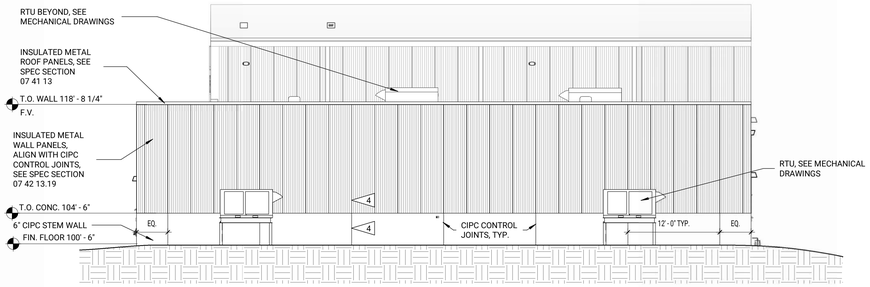
APPLICABLE TO SHEET A/2-1 ONLY

1. EXPANSION JOINT. EXPANSION JOINT DOES NOT EXTEND THROUGH CIPC STEM WALL. SEE STRUCT FOR ADDITIONAL INFO.
2. REMOVABLE ALUMINUM FLOOD BARRIERS. SEE SPEC SECTION 08 39 60.
3. DOWNSPOUT NOZZLE. SEE MECH FOR ADDITIONAL INFO.
4. ALIGN INSULATED METAL WALL PANELS WITH CIPC CONTROL JOINTS. TYP.



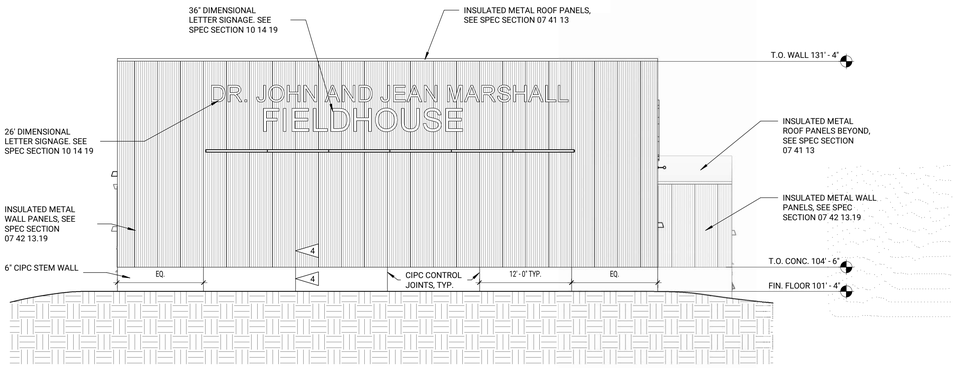
4 A2-1 SOUTH ELEVATION

1/8" = 1'-0" 0' 8' 16'



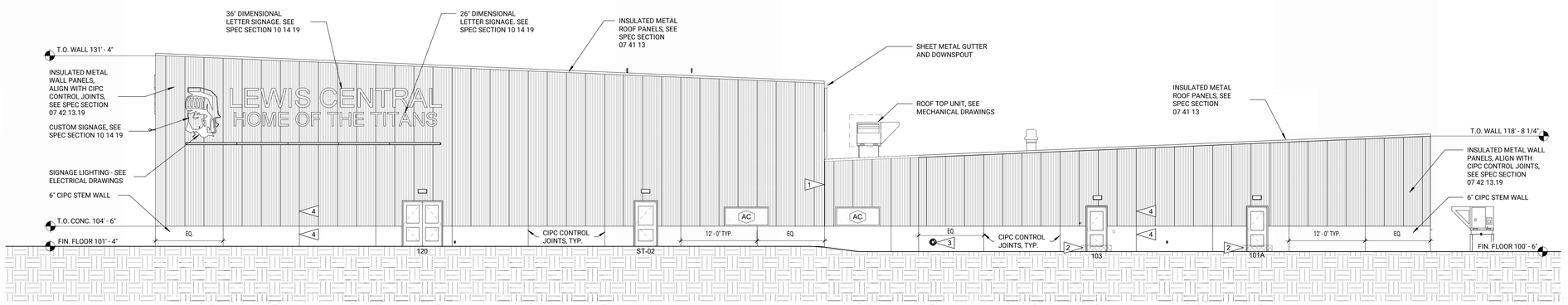
3 A2-1 WEST ELEVATION

1/8" = 1'-0" 0' 8' 16'



2 A2-1 EAST ELEVATION

1/8" = 1'-0" 0' 8' 16'



1 A2-1 NORTH ELEVATION

1/8" = 1'-0" 0' 8' 16'

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LANGE STRUCTURAL ENGINEERING
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Lincoln, NE 68506

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

#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

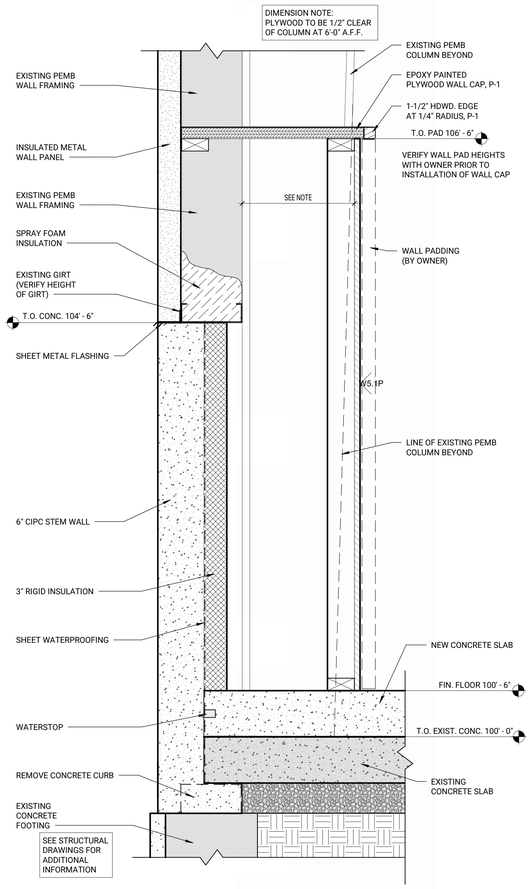
EXTERIOR ELEVATIONS

A2-1

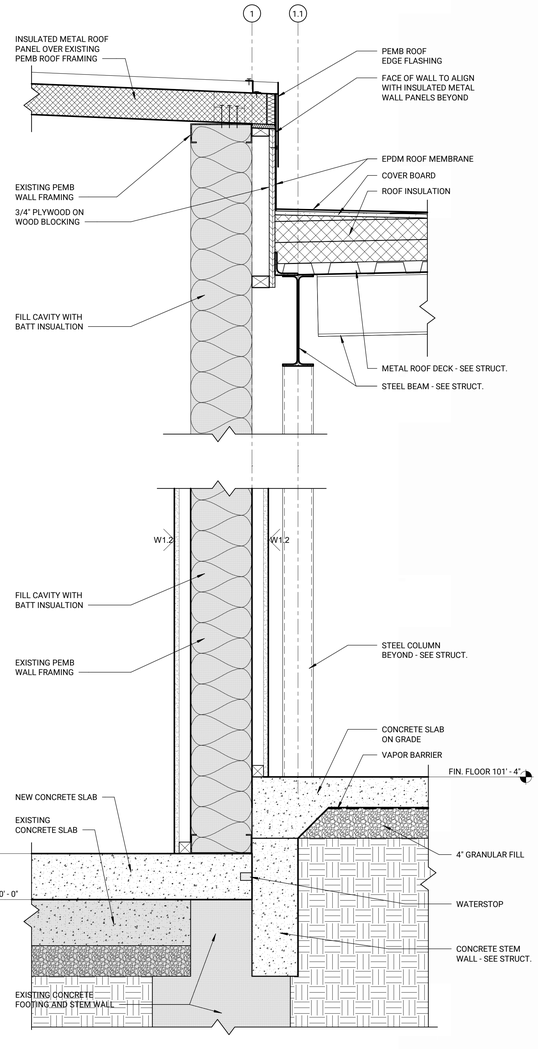
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026

LEFT BINDING EDGE

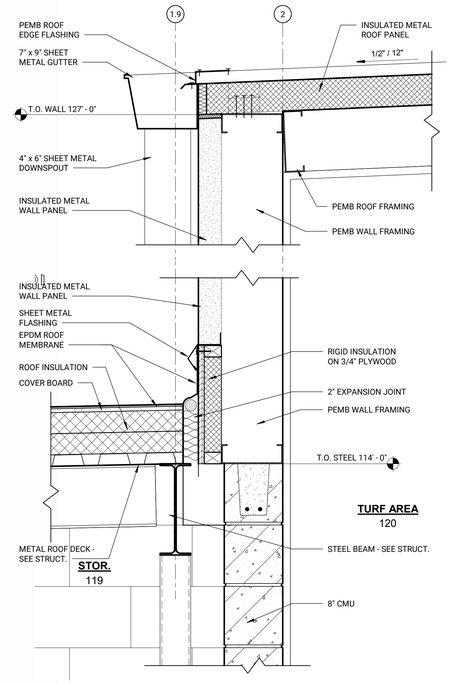
2/24/2026 1:26:10 PM



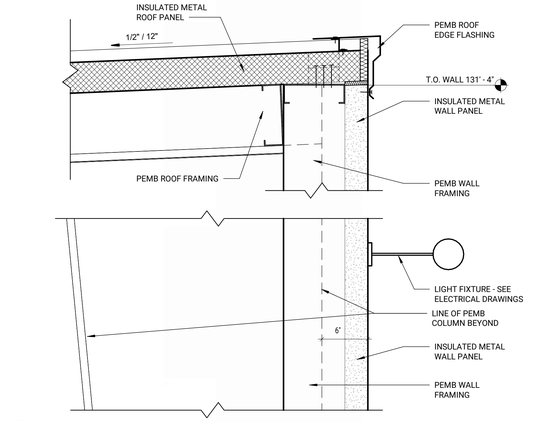
6 A3-1 SECTION DETIAL - WALL BASE AT WRESTLING AREA 101
1 1/2" = 1'-0"



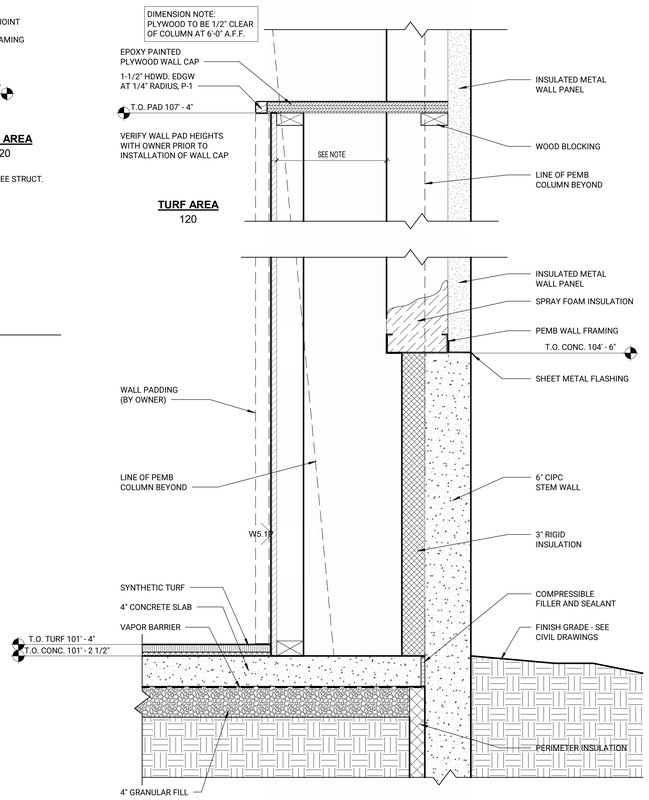
5 A3-1 SECTION DETAIL - WALL AT STORAGE 119
1 1/2" = 1'-0"



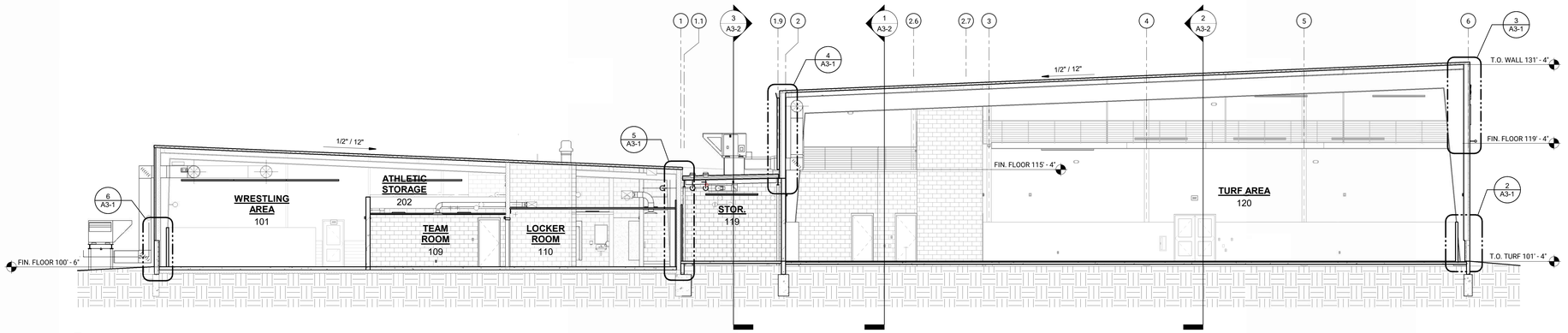
4 A3-1 SECTION DETAIL - ROOF TRANSITION
1 1/2" = 1'-0"



3 A3-1 SECTION DETAIL - ROOF EDGE AT TURF 121
1 1/2" = 1'-0"



2 A3-1 SECTION DETAIL - WALL BASE AT TURF 121
1 1/2" = 1'-0"



1 A3-1 BUILDING SECTION - LOOKING NORTH
1/8" = 1'-0"

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LEWIS CENTRAL MIDDLE ATHLETIC BUILDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL
COMMUNITY SCHOOL
DISTRICT

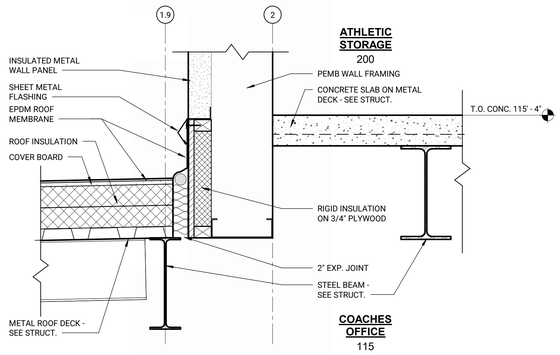
BUILDING SECTIONS
AND DETAILS

A3-1

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

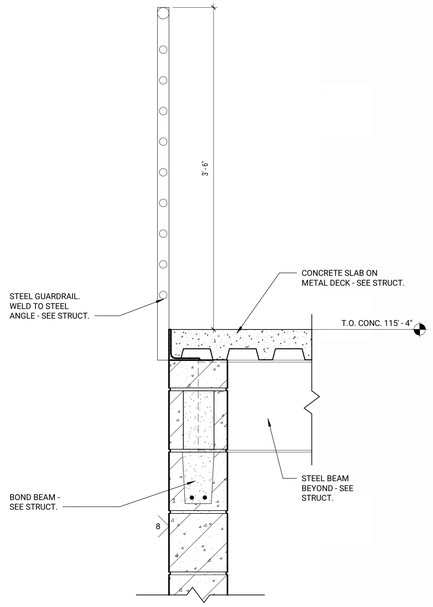
LEFT BINDING EDGE

2/24/2026 1:28:14 PM



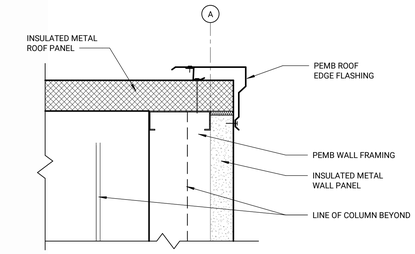
9 A3-2 ROOF TO WALL TRANSITION AT ATHLETIC STORAGE 200

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



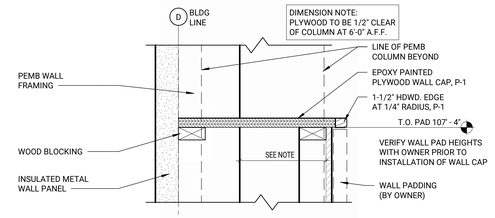
8 A3-2 SECTION DETAIL - RAILING AT ATHLETIC STORAGE 200

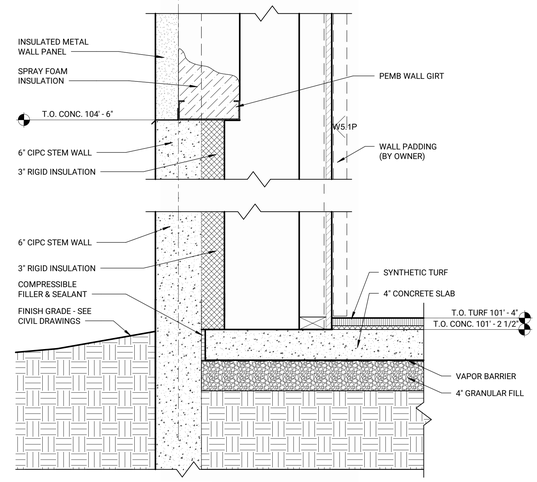
1 1/2" = 1'-0" 0" 8" 1'-4"



7 A3-2 ROOF EDGE DETAIL - ATHLETIC STORAGE 201

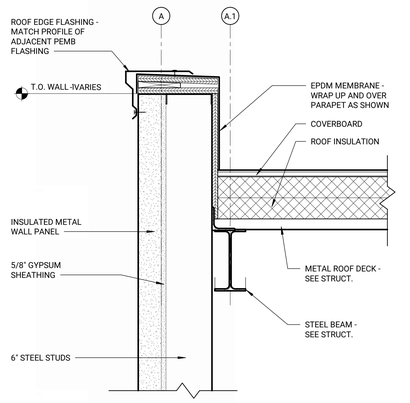
1 1/2" = 1'-0" 0" 8" 1'-4"





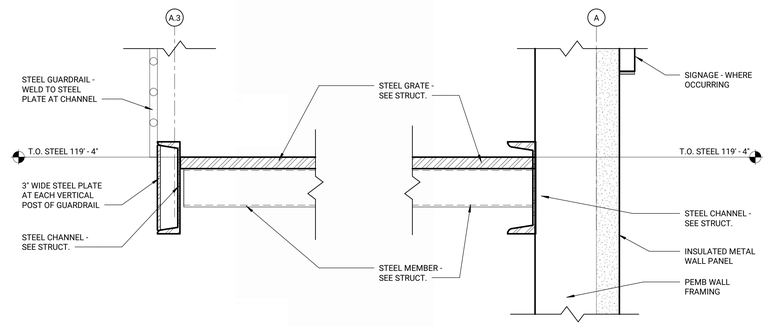
4 A3-2 SECTION DETAIL - LOW WALL AT TURF 120

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



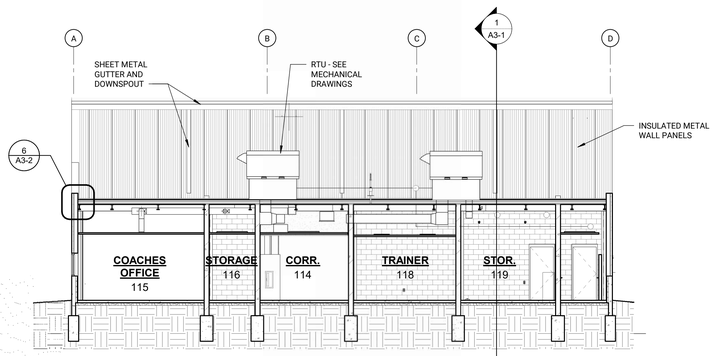
6 A3-2 SECTION DETAIL AT LOW ROOF

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



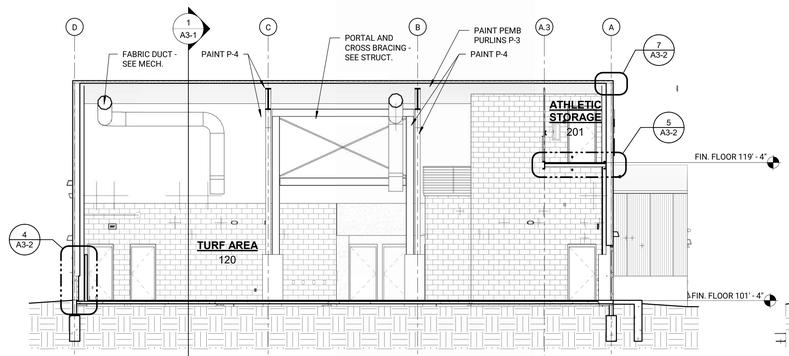
5 A3-2 SECTION DETAIL AT ATHLETIC STORAGE 201

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



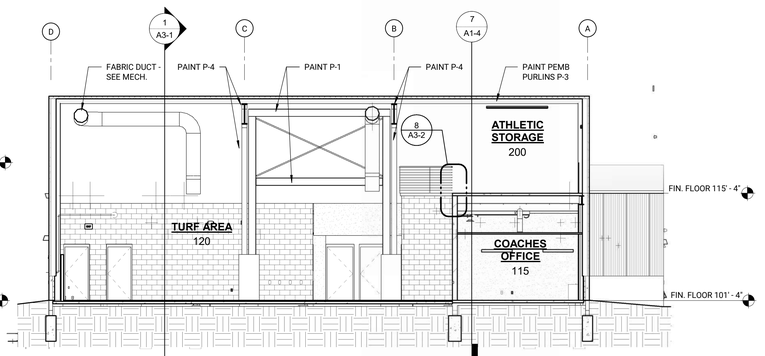
3 A3-2 BUILDING SECTION AT LOW ROOF - LOOKING EAST

1/8" = 1'-0" 0" 8" 16'



2 A3-2 BUILDING SECTION AT TURF 121 - LOOKING WEST

1/8" = 1'-0" 0" 8" 16'



1 A3-2 BUILDING SECTION AT ATHLETIC TRAINING 200 - LOOKING WEST

1/8" = 1'-0" 0" 8" 16'

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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

BUILDING SECTIONS AND DETAILS

A3-2

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

LEFT BINDING EDGE

2/24/2026 1:26:15 PM

DOOR, FRAME, AND GLAZING GENERAL NOTES

1. 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.
2. ALL DOORS SHALL BE 1-3/4" THICK, U.N.O.
3. ALL EXTERIOR FRAMES (SHOWN ON FRAME ELEVATIONS) ARE VIEWED FROM THE EXTERIOR UNLESS INDICATED OTHERWISE.
4. SEE DOOR AND FRAME SCHEDULE FOR ACTUAL DOOR SIZES. COORDINATE FRAME DIMENSIONS WITH DOOR SIZES.
5. SEE SHEET A4-1 FOR DETAILS LISTED IN SCHEDULE, U.N.O.
6. COORDINATE LINTELS AT DOOR HEADS WITH STRUCTURAL WHERE REQ'D.
7. SEE SPECIFICATION SECTION 08 80 00 FOR DESCRIPTION OF GLASS TYPES SHOWN ON DOOR AND FRAME SCHEDULE (I.E. 'CTG').
8. VERIFY ALL HARDWARE SIZES, CLEARANCES, POCKET DEPTHS, ECT. WITH HARDWARE SUPPLIER AND ADJUST ACCORDINGLY.
9. 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.
10. CAULK ALL JOINTS BETWEEN INTERSECTING FRAME MEMBERS THAT ARE NOT WELDED, WITH A PAINTABLE CAULK TO PROVIDE A SMOOTH AND UNIFORM APPEARANCE WHEN PAINTED.
11. THE PERIMETER OF ALL FRAMES SHALL BE CAULKED AT BOTH THE EXTERIOR AND INTERIOR.
12. SET ALL EXTERIOR FRAMES AND THRESHOLDS IN A CONTINUOUS BEAD OF CAULK AT SILLS.
13. PROVIDE AND INSTALL THRU-WALL FLASHING AND WEEP HOLES ABOVE ALL EXTERIOR FRAME OPENINGS.

DOOR, FRAME AND GLAZING LEGEND

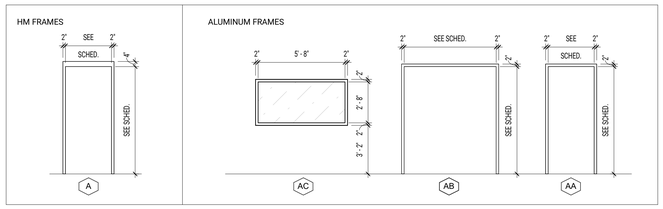
ALUM	ALUMINUM
CTIG	CLEAR TEMPERED INSULATED GLASS
HM	HOLLOW METAL
IMFP	INSULATED METAL INFILL PANEL
MIN	MINUTE
P	PAINT
PF	PRE-FINISHED
PR	PAIR
SIM	SIMILAR
ST	STAIN
U.N.O.	UNLESS NOTED OTHERWISE
WD	WOOD

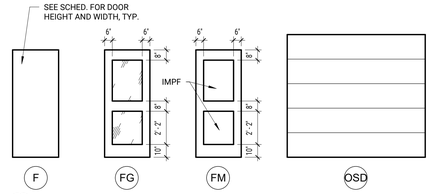
DOOR AND FRAME SCHEDULE

DOOR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME DEPTH	FRAME MAT.	FRAME FINISH	FRAME HEAD	FRAME JAMB	HDWR. TYPE	LABEL	GLAZING	REMARKS	DOOR NO.
100	PR 3' - 0"	7' - 0"	FG	ALUM	PF	AB	4 1/2"	ALUM	PF	21	6, 7	1	---	CTIG	---	100
100A	3' - 0"	7' - 0"	F	HM	---	A	8 3/4"	HM	P-2	1	2	8	60 MIN.	---	---	100A
100B	3' - 0"	7' - 0"	FM	ALUM	PF	AA	4 1/2"	ALUM	PF	21	6, 7, 8, 9	2	---	---	---	100B
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	2	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	PF	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
201	3' - 4"	7' - 0"	F	HM	P-2	A	8 3/4"	HM	P-2	1	2	24	60 MIN.	---	---	201
ST-02	3' - 4"	7' - 0"	FM	ALUM	PF	AA	4 1/2"	ALUM	PF	5 SIM	14 SIM, 17 SIM	7	---	---	---	ST-02

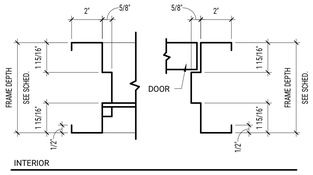
WINDOW SCHEDULE

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

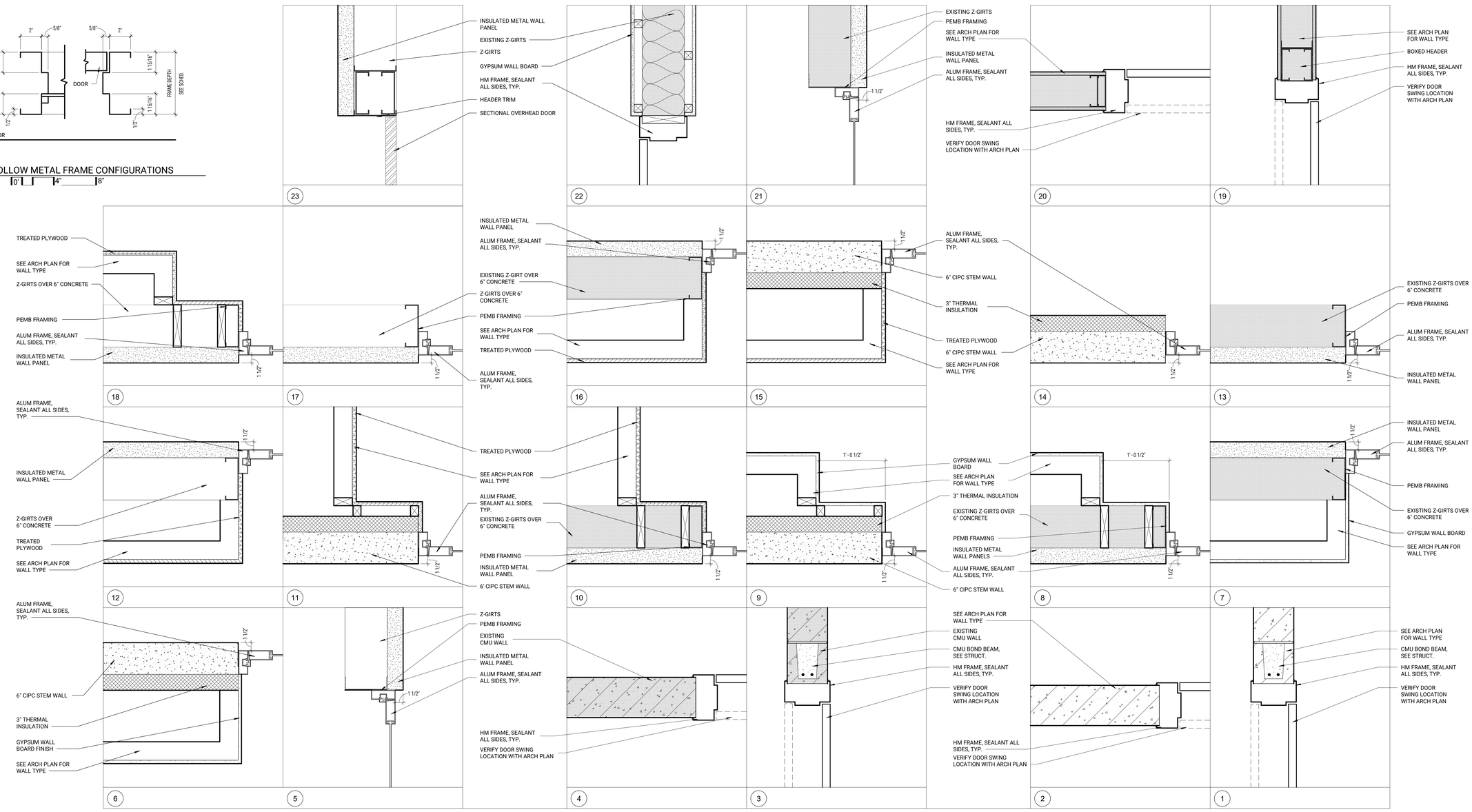




2 A4-1 DOOR TYPE ELEVATIONS
1/4" = 1'-0"



3 A4-1 TYP. HOLLOW METAL FRAME CONFIGURATIONS
3" = 1'-0"



1 A4-1 DOOR AND FRAME DETAILS
1 1/2" = 1'-0"

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Omaha, NE 68164

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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

LEFT BINDING EDGE

2/24/2026 1:26:18 PM

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.

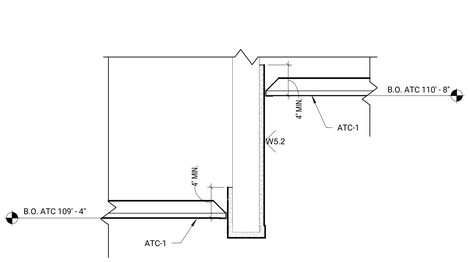
REFLECTED CEILING PLAN LEGEND:

- ONE HOUR FIRE WALL PER IBC 705 FIRE DOOR AND FIRE SHUTTER ASSEMBLY IN THESE WALLS TO BE RATED PER IBC 715.
- ATC CEILING
- GWB CEILING
- 2x4 LIGHT
- 1x4 LIGHT
- 2x2 LIGHT
- DOWNLIGHT
- SUPPLY DIFFUSER
- RETURN GRILLE

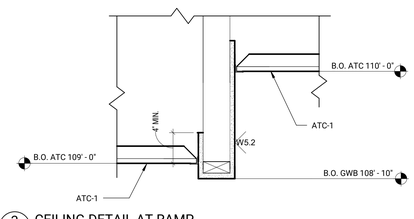
REFLECTED CEILING PLAN FLAG NOTES

FLAG NOTES APPLY TO SHEET A5-1 ONLY

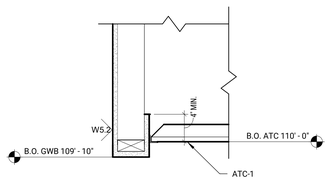
1. UNDERSIDE OF METAL GRATE OF STORAGE ABOVE. PAINT P-2.
2. PROVIDE AND INSTALL ATC HOLD-DOWN CLIPS AT EXTERIOR DOORS AS SHOWN IN THE FOLLOWING HATCH: [ ] , SEE SPEC SECTION 09 51 00.
3. PAINT PEMB STEEL MEMBRANE (EXISTING AND NEW) P-4.
4. PAINT PEMB ROOF PURLINS (EXISTING AND NEW) TO MATCH THE INTERIOR COLOR OF THE INSULATED METAL ROOF PANELS, P-3.



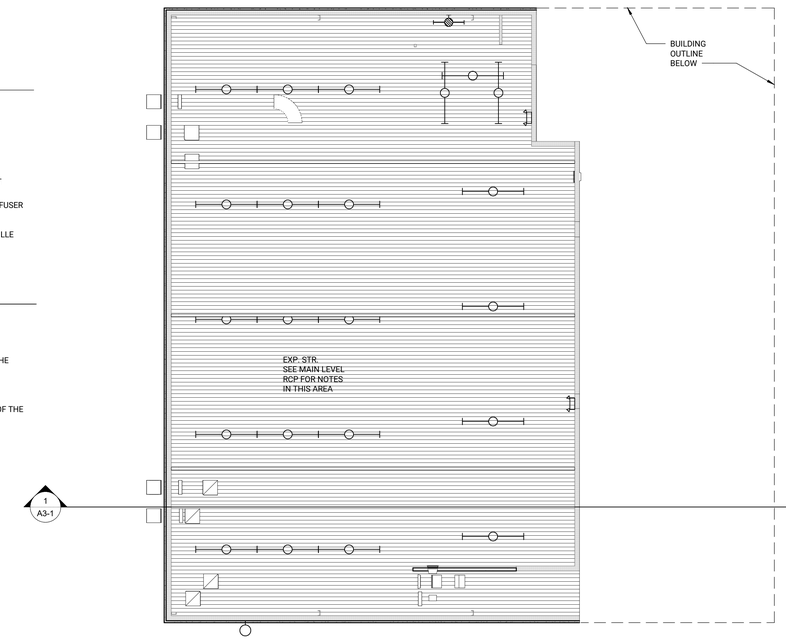
4 A5-1 CEILING DETAIL AT LOCKER ROOMS
1 1/2" = 1'-0"

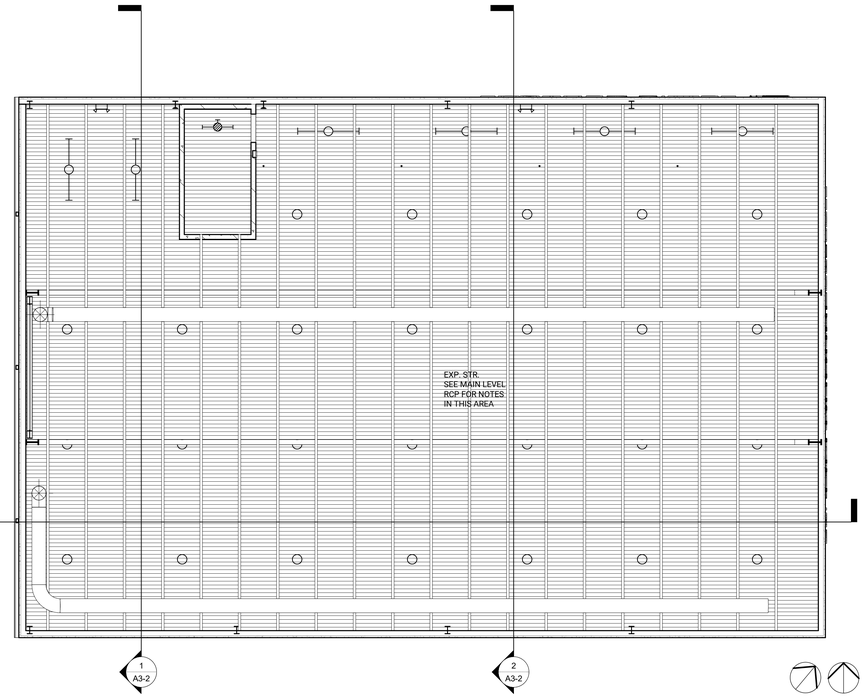


3 A5-1 CEILING DETAIL AT RAMP
1 1/2" = 1'-0"

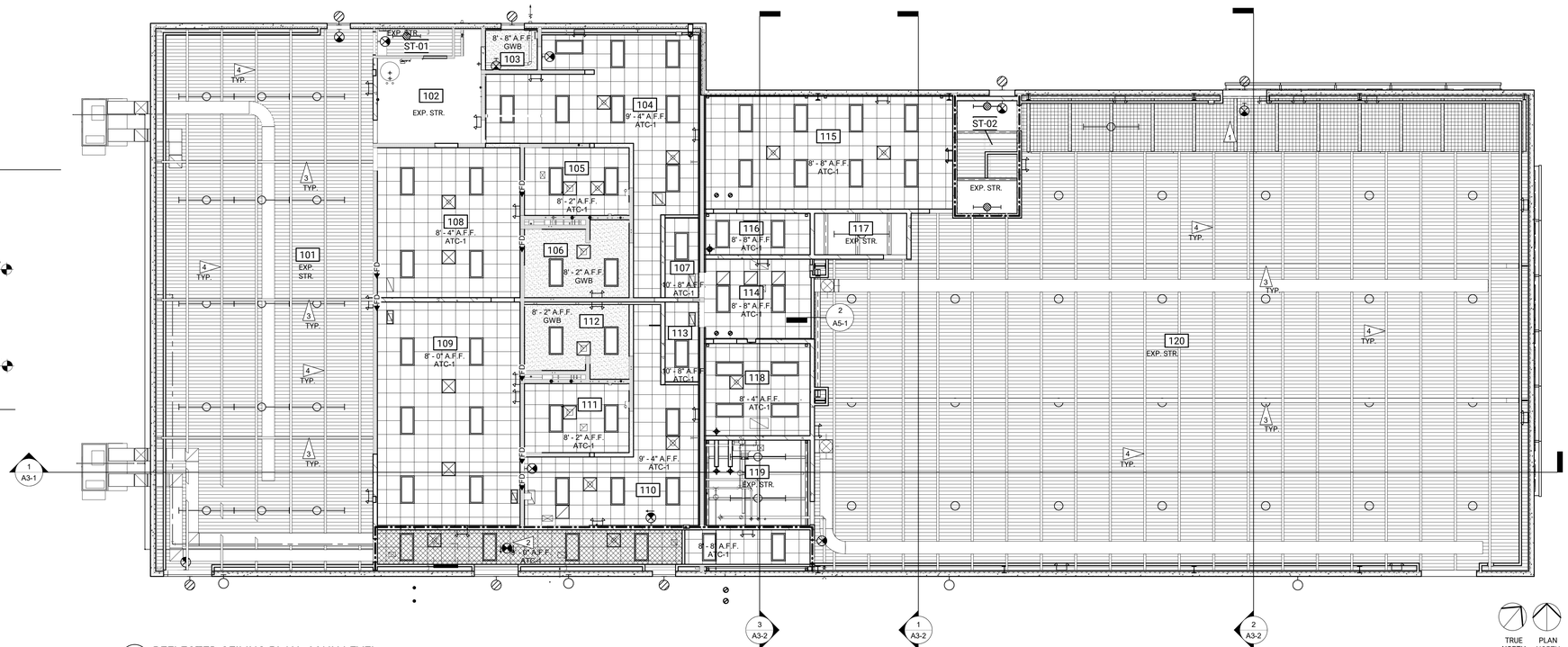


2 A5-1 CEILING DETAIL AT CORR. 114
1 1/2" = 1'-0"





5 A5-1 REFLECTED CEILING PLAN - UPPER LEVEL
1/8" = 1'-0"



1 A5-1 REFLECTED CEILING PLAN - MAIN LEVEL
1/8" = 1'-0"

TRUE NORTH PLAN NORTH

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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

LEFT BINDING EDGE

2/24/2026 1:26:20 PM

INTERIOR FINISH PLAN GENERAL NOTES

1. SEE INTERIOR FINISH PLANS AND/OR ELEVATIONS FOR PATTERNS AND DESIGNATIONS OF MATERIAL TERMINATIONS.
2. CEILING HEIGHT AND MATERIAL MAY VARY, SEE REFLECTED CEILING PLANS.
3. ALL FLOOR FINISH TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR WHEN DOOR IS IN CLOSED POSITION, UNO.
4. 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

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

INTERIOR FINISH LEGEND

CPT-1 · TF-1 · CT-1, 4"x16"
VCT-1 · PT-1A, 12"x24" · CT-2, 4"x16"
STEEL GRATING · PT-1B, 2"x2"

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.

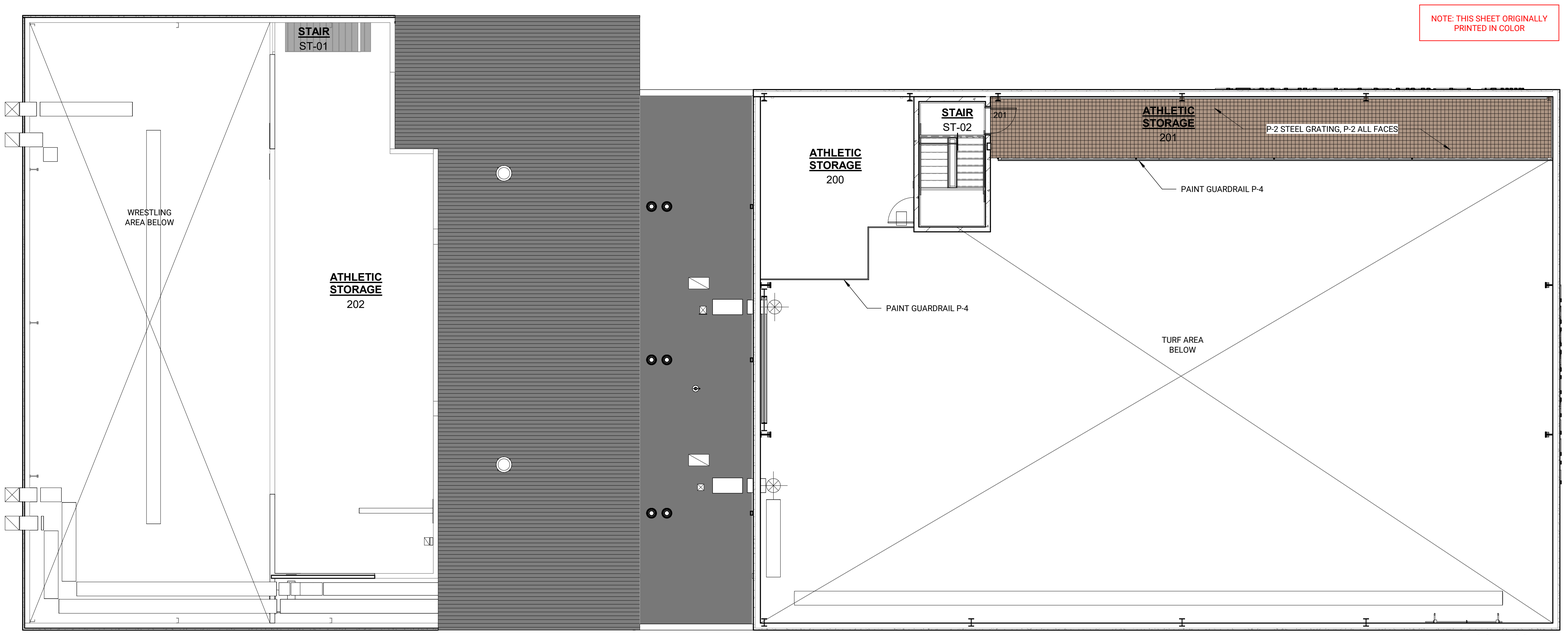
*NOTE: PATTERNS INDICATE MAJOR FLOOR MATERIAL CHANGES; SEE ROOM FINISH SCHEDULE FOR FULL MATERIAL DESIGNATION.

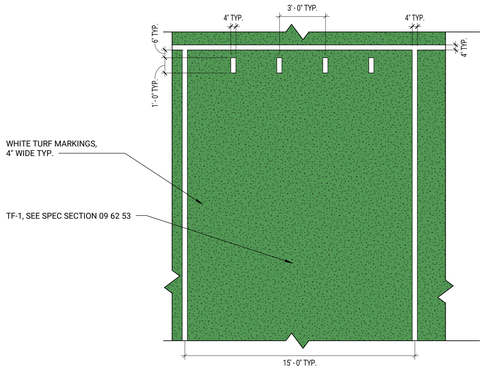
ROOM FINISH LEGEND

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

ROOM FINISH SCHEDULE

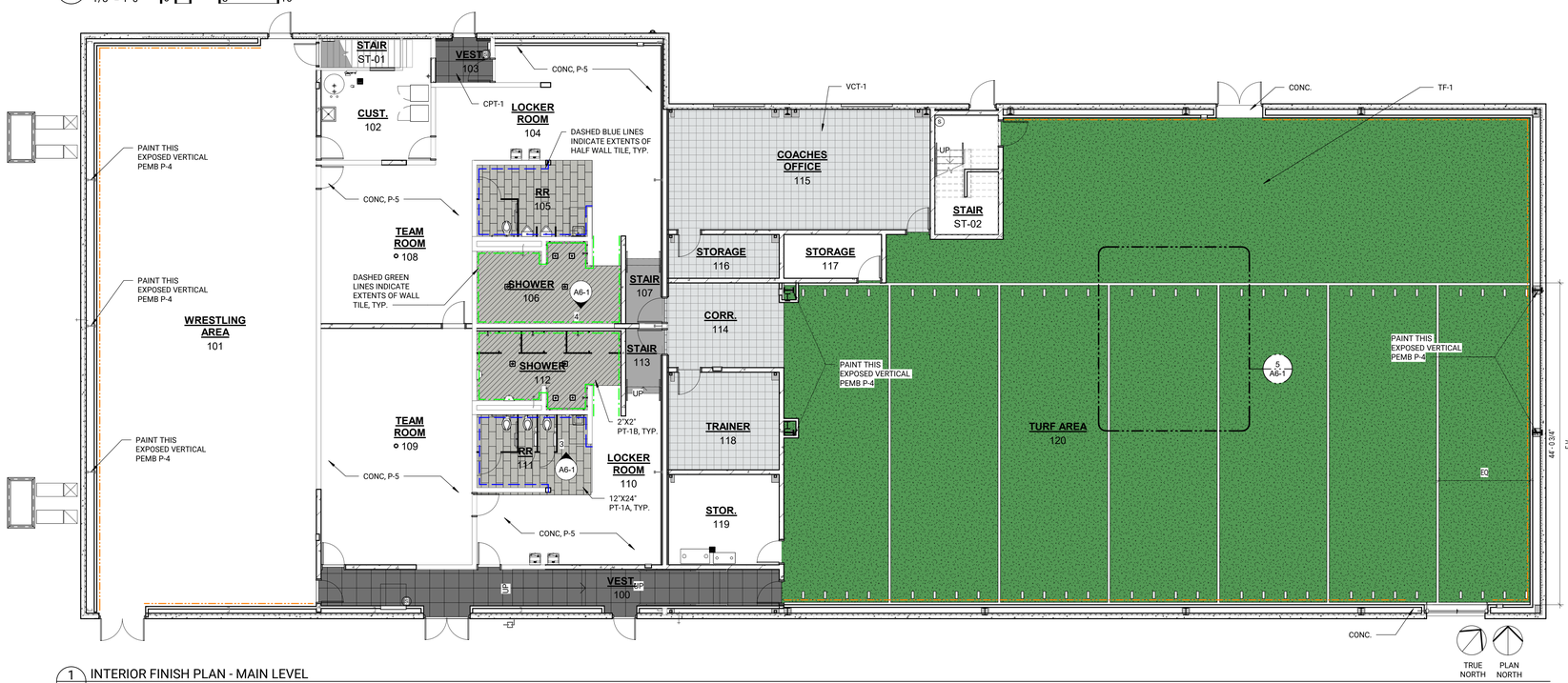
ROOM NO.	NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING MATERIAL	REMARK
100	VEST.	CPT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
101	WRESTLING AREA	CONC.	*VB-1	---	P-1	---	---	EXP. STR., P-3, 4	*5
102	CUST.	CONC.	VB-1	P-1	P-1	P-1	P-1	EXP. STR.	*4
103	VEST.	CPT-1	VB-1	P-1	P-1	P-1	P-1	GWB, P-3	
104	LOCKER ROOM	CONC. P-5	VB-1	*P-1	*P-1	*P-1	*P-1	ATC-1	*2
105	RR	*PT-1A	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	*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	P-1	ATC-1	
109	TEAM ROOM	CONC. P-5	VB-1	P-1	P-1	P-1	P-1	ATC-1	
110	LOCKER ROOM	CONC. P-5	VB-1	*P-1	*P-1	*P-1	*P-1	ATC-1	*2
111	RR	*PT-1A	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	*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	P-1	ATC-1	
115	COACHES OFFICE	LVT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
116	STORAGE	LVT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
117	STORAGE	CONC.	VB-1	P-1	P-1	P-1	P-1	EXP. STR.	
118	TRAINER	LVT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
119	STOR.	CONC.	VB-1	P-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	*P-1,	EXP. STR., P-3, 4	*5
200	ATHLETIC STORAGE	CONC.	VB-1	P-1	P-1	---	P-1	EXP. STR.	
201	ATHLETIC STORAGE	STEEL GRATING, P-2	---	P-1	P-1	---	P-1	EXP. STR.	
202	ATHLETIC STORAGE	EXIST.	VB-1	P-1	P-1	P-1	P-1	EXIST.	
ST-01	STAIR	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	
ST-02	STAIR	CONC	VB-1	P-1	P-1	P-1	P-1	EXP. STR.	

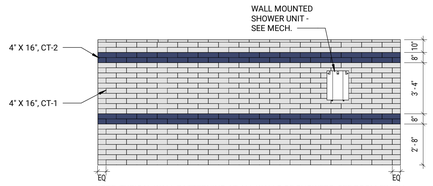




5 A6-1 TURF - ENLARGED PLAN
1/4" = 1'-0" 0' 4' 8'

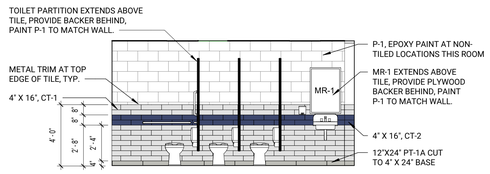
2 A6-1 INTERIOR FINISH PLAN - UPPER LEVEL
1/8" = 1'-0" 0' 8' 16'





*NOTE: TYPICAL WALL PATTERNING AT ALL WALLS OF SHOWERS. SEE ROOM FINISH SCHEDULE AND GREEN DASHED LINES ON FINISH PLAN FOR SPECIFIC ROOMS.

4 A6-1 SHOWER 106 - SOUTH
1/4" = 1'-0" 0' 4' 8'



*NOTE: TYPICAL WALL PATTERNING AT ALL WALLS OF RESTROOMS. SEE ROOM FINISH SCHEDULE AND BLUE DASHED LINES ON FINIAH PLAN FOR SPECIFIC ROOMS.

3 A6-1 RR - 111 - NORTH
1/4" = 1'-0" 0' 4' 8'

1 A6-1 INTERIOR FINISH PLAN - MAIN LEVEL
1/8" = 1'-0" 0' 8' 16'

NOTE: THIS SHEET ORIGINALLY PRINTED IN COLOR

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#	Description	Date

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

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.

1. GENERAL CONTRACTORS RESPONSIBILITIES INCLUDE BUT ARE NOT LIMITED TO:
   a. DETERMINE CONSTRUCTION SEQUENCE AND PROCEDURES.
   b. PROVIDE A SAFE JOBSITE FOR WORKERS, SUBCONTRACTORS, TESTING AND INSPECTION AGENCIES, AND DESIGN PROFESSIONALS.
   c. DESIGN AND INSTALLATION OF ALL SHORING AND TEMPORARY BRACING NECESSARY TO ENSURE THE SAFETY OF THE BUILDING, IT'S COMPONENTS AND OCCUPANTS.
   d. VERIFY AND COORDINATE DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS. IF DISCREPANCIES EXIST, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO COMMENCING THAT PROCEDURE.
   e. 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.
   f. PROTECT FOUNDATIONS FROM FROST DURING CONSTRUCTION. REFER TO SOILS REPORT FOR FURTHER INFORMATION.
2. IF CONFLICTS EXIST IN THE CONSTRUCTION DOCUMENTS THE STRICTEST PROVISIONS SHALL GOVERN.
3. DETAILS SHOWN IN TYPICAL LOCATIONS SHALL APPLY TO ALL LOCATIONS WITH THE SAME OR SIMILAR CONDITIONS.

REINFORCED CONCRETE

1. REFER TO DESIGN DATA.
2. ACI FIELD REFERENCE MANUAL, SP-15 SHALL BE FOLLOWED. AT LEAST ONE COPY SHALL BE AVAILABLE ON SITE DURING CONCRETING OPERATIONS.
3. 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 1/2 TIMES THE WIDTH.
4. UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, ALL CIP AND CMU WALLS SHALL BE CONNECTED TO THE FOUNDATION WITH DOWELS THAT MATCH THE WALL REINFORCING SIZE AND SPACING.
5. REFER TO SCHEDULES FOR TYPICAL REINFORCING DETAILS.
6. 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"

7. PROVIDE CONCRETE COVER FOR ALL REINFORCING AS FOLLOWS:
   a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
   b. EXPOSED TO EARTH OR WEATHER
      #6 BAR AND LARGER ..... 3"
      #5 BAR AND SMALLER ..... 1 1/2"
   c. INTERIOR EXPOSURE
      BEAMS & COLUMNS ..... 1 1/2"
      WALLS ..... 1 1/2"
      SLABS AND JOISTS ..... 3/4"
8. PROVIDE AN ADDITIONAL (2) #5 BARS AROUND ALL RECTANGULAR OPENINGS IN CIP WALLS AND (1) #5 BAR AROUND ALL RECTANGULAR OPENINGS IN CIP SLABS. ADDITIONAL BAR SHALL EXTEND 24" MINIMUM BEYOND THE OPENING.
9. 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

1. REFER TO DESIGN DATA.
2. PRIOR TO COMMENCING WORK, SUBMIT THE FOLLOWING:
   a. REBAR SHOP DRAWINGS, GROUT AND MORTAR MIXES.
   b. INSTALLATION PROCEDURES FOR GROUT PLACEMENT, VIBRATING AND ACCURATELY POSITIONING OF REINFORCING.
   c. COLD AND HOT WEATHER CONSTRUCTION.
   d. LETTER ACKNOWLEDGING THAT JOB FOREMAN HAS READ AND UNDERSTOOD STANDARD NOTES, REINFORCING AND DETAILS.
3. ALL MASONRY WALLS SHALL HAVE HORIZONTAL JOINT REINFORCING AT 16" OC. PROVIDE 6" MIN LAP OF JOINT REINFORCING.
4. WHEN BRICK VENEER IS USED WITH CMU BACK UP, PROVIDE LADDER TYPE JOINT REINFORCING WITH PINTEL AND EYE ADJUSTABLE TIES FOR BRICK.
5. COMPLY WITH ACI 530.1 SECTION 1.8 FOR HOT AND COLD WEATHER CONSTRUCTION.
6. COMPLY WITH ACI 530.1 SECTION 3.2F FOR CLEANOUTS AND SECTION 3.5 FOR GROUT PLACEMENT.
7. USE BAR POSITIONERS TO ACCURATELY LOCATE VERTICAL REINFORCING, UNLESS APPROVED ALTERNATE METHOD IS USED.
8. UNLESS SELF-CONSOLIDATING GROUT IS USED, VIBRATE GROUT DURING PLACEMENT AND REVIBRATE ONCE GROUT SLUMP HAS REACHED 3". CONCRETE VIBRATOR SHALL NOT BE USED.
9. ALL OPENINGS SHALL BE REINFORCED AS SHOWN IN THE STANDARD CMU REINFORCING DETAILS.
10. GROUT SOLID ONE COURSE ABOVE AND BELOW BOLTS AND EXPANSION BOLTS.
11. GROUT CORES SOLID BELOW GRADE.
12. WHERE CMU COURSES OF DIFFERENT THICKNESS ARE LAID ABOVE ONE ANOTHER, GROUT THE FIRST AND LAST COURSE OF EACH SOLID.
13. 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

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

METAL DECK

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

SPECIAL INSPECTION

1. SPECIAL INSPECTIONS TO BE PERFORMED BY A LICENSED STRUCTURAL ENGINEER OR CERTIFIED SPECIAL INSPECTOR WHO HAS BEEN CERTIFIED IN THE MATERIAL BEING INSPECTED.
2. SPECIAL INSPECTION AND TESTING IS REQUIRED ON THIS PROJECT. THE FOLLOWING ENTITIES SHALL PERFORM THE FOLLOWING:
   a. THE OWNER: SHALL HIRE A QUALIFIED SPECIAL INSPECTOR/TESTING AGENCY AS INDICATED BELOW.
   b. THE GENERAL CONTRACTOR: SHALL COORDINATE THE REQUIRED SPECIAL INSPECTIONS WITH THE SPECIAL INSPECTOR AND SUB CONTRACTOR PERFORMING THE WORK.
   c. 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.
3. SCOPE AND FREQUENCY OF INSPECTIONS SHALL BE AS PER SPECIFICATIONS OR AS MINIMUM PER REFERENCED STANDARDS.
4. THE FOLLOWING TABLE PROVIDES A GENERAL OVERVIEW OF THE REQUIRED INSPECTIONS. REFER TO REFERNCED CODE SECTIONS FOR SPECIFIC REQUIRMENTS.

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 QA/QC 2017	WELDING AND MECHANICAL FASTENING	
CONCRETE (1705.3)	IBC TABLE ACI 318-14	REINFORCEMENT -MATERIAL, WELDING, AND PLACEMENT ANCHORAGES -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	

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

DESIGN DATA

GOVERNING CODE: 2015 INTERNATIONAL BUILDING CODE

FOUNDATION PARAMETERS:

SOIL INVESTIGATION PERFORMED BY ..... Thiele Geotech
REPORT NUMBER ..... TG (25372.01

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/LIVE/SNOW L/240
- BUILDING SWAY H/240*

END WALL COLUMNS L/360*
GIRTS L/240*
PURLINS L/240
ROOF PANEL L/120*
WALL PANEL ..... -
* 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) ..... 25 PSF
- FLAT ROOF SNOW (P_f) ..... 17 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) 1.0
- UNBALANCED SNOW LOADS ..... ASCE 7-16 SECTION 7.6
- SNOW DRIFTING ..... REFER TO PLAN

RAIN INTENSITY:
- 60 MIN DURATION ..... 3.81 IN/HR
- 15 MIN DURATION ..... 7.21 IN/HR

FLOOR LIVE LOAD:
- STORAGE MEZZANINE ..... 125 PSF

WIND:
- ULTIMATE WIND SPEED (V_t) ..... 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_e) 1.0
- SITE CLASS ..... D
- S_s 0.071
- S_1 ..... 0.046
- S_{DS} 0.076
- S_{D1} 0.073
- SEISMIC DESIGN CATEGORY ..... B

MATERIAL PROPERTIES:

REINFORCED CONCRETE:

28 DAY CONCRETE STRENGTHS (MINIMUM):	f'_c	w/c
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 ..... A185 CSA G30.5

MASONRY:
- CMU ..... GRADE N, NORMAL WT
- f'_m ..... 2000 PSI
- REINFORCING BARS ..... ASTM A615 GRADE 60
- JOINT REINFORCING ..... 9 GAGE LADDER TYPE
- GALVANIZING
  - INTERIOR WALLS ..... ASTM A641 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 F3125, GRADE A325
- 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 HLC OR APPROVED EQUIV.
- FASTENERS IN CONTACT w/ TREATED LUMBER ..... 304 OR 316 STAINLESS, GALVANIZED ASTM F2329 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

BCDM architects

PROJECT TEAM

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

#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BULIDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

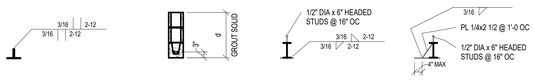
STRUCTURAL NOTES & DESIGN DATA

S1-1

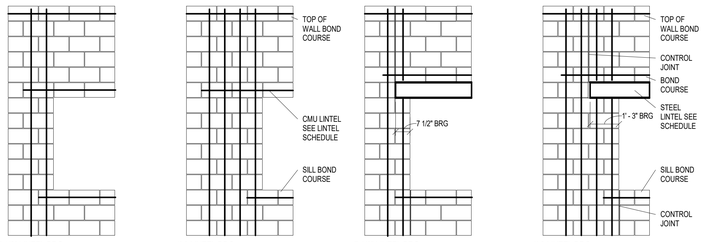
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02/23/2026

MASONRY LINTEL SCHEDULE				
MARK	TYPE	BRG	DESCRIPTION	NOTE
L-1	1	7 5/8"	(2) L5x3 1/2x5/16 LLV	TYP. UNO
L-2	2	7 5/8"	W8x10 w/ 1/4x7 BOTTOM PL	

NOTES:
1. ALL OPENINGS IN CMU SHALL HAVE LINTELS. ADAPT LINTEL SCHEDULE AS NECESSARY FOR SPECIFIC CONDITION.
2. USE L-1 FOR TYP MECH UNIT OPENINGS LESS THAN 4'-0 WIDE
3. GALVANIZE STEEL LINTELS AT EXTERIOR WALLS OR WHERE REQUIRED BY ARCH



MASONRY LINTEL SCHEDULE



PROVIDE CONTROL JOINTS AT ONE JAMB WITH OPENINGS 6'-0 AND LESS
PROVIDE CONTROL JOINTS AT BOTH JAMBS WITH OPENINGS GREATER THAN 6'-0

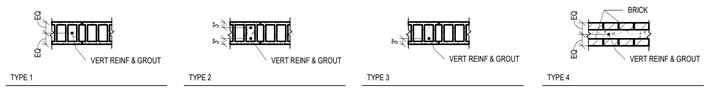
CMU OPENING STANDARD DETAILS

WALL REINFORCING SCHEDULE			
MARK	TYPE	SIZE	VERTICAL REINFORCING
A	1	8"	#4 @ 48" OC

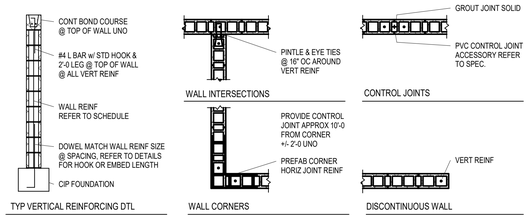
NOTES:
1. REFER TO GENERAL STRUCTURAL NOTES
2. REINFORCING SHALL CONTINUE FROM FND TO TOP OF WALL
3. PROVIDE HORIZ JOINT REINF AT 1'-4 OC REFER TO GENERAL NOTES
4. USE BAR POSITIONERS TO ACCURATELY LOCATE REINFORCING (±1/2" MAX TOLERANCE)

BOND COURSE REINF	
CMU SIZE	REINF SIZE
4"	(1) #3
6"	(1) #4
8"	(2) #4
10"	(2) #4
12"	(2) #5
16"	(2) #5

LAP SPLICE LENGTHS		
BAR SIZE	CENTERED	EA FACE
#3	18"	
#4	24"	
#5	32"	
#6	40"	57"
#7	48"	80"
#8	56"	-

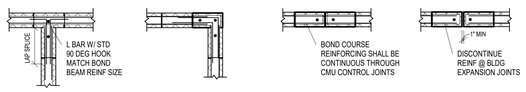


CMU REINFORCING SCHEDULES

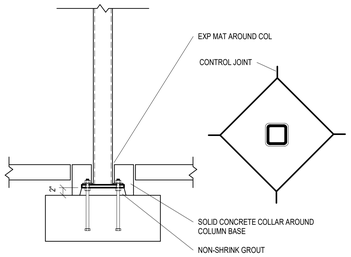


CMU WALL REINFORCING DETAILS

NOTES:
1. PROVIDE CONTINUOUS BOND COURSE WITHIN 3 COURSES OF TOP OF WALL.
2. PROVIDE CMU CONTROL JOINTS WHERE INDICATED. 25'-0 MAX SPACING. LOCATE AT CORNERS OF OPENINGS IF NOT SHOWN. DO NOT PLACE CONTROL JOINT WITHIN 4'-0 OF WALL CORNERS.
3. PROVIDE CONTINUOUS BOND COURSE AT ALL JOIST AND BEAM BEARING ELEVATIONS.
4. SEE ARCH DWGS FOR BRICK EXPANSION JOINTS



CMU BOND COURSE, JOINT NOTES AND REINFORCING DETAILS

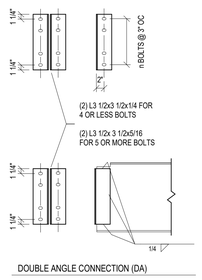


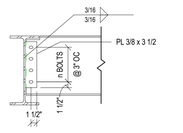
COLUMN BASE DETAIL WITH DIAMOND BLOCKOUT

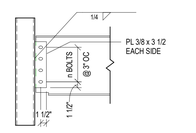
NUMBER OF 3/4" A325 BOLTS REQ'D PER BEAM CONNECTION

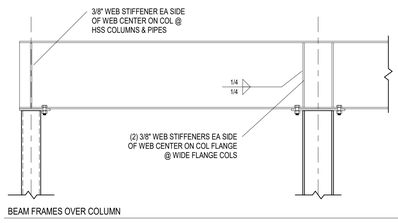
BEAM SIZE	W8	W10	W12	W14	W16	W18	W21	W24	W27	W30	W33	W36
2" COPE	2	2	3	3	4	5	5	6	6	7	8	9
4 1/2" COPE	-	-	2	2	3	4	5	6	6	7	8	9

NOTES:
1. ALL PRIMARY BEAM CONNECTIONS SHALL USE DBL ANGLE OR DBL PLATE CONNECTIONS





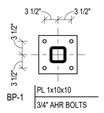




BEAM CONNECTION SCHEDULE AND TYPICAL DETAILS

BOLT Ø	EMBED	WASHER
5/8"	6"	3/16x1 1/2x1 1/2
3/4"	9"	1/4x2x2
7/8"	12"	5/16x2 1/2x2 1/2
1"	15"	3/8x3x3
1 1/4"	22"	1/2x3x3
1 1/2"	30"	1/2x3 1/2x3 1/2

NOTES:
1. ANCHOR BOLTS SHALL BE ASTM F1554, GR 55 STRAIGHT THREADED ROD WITH NUT TACK WELDED TO EMBED END
2. ADD 4" OF EMBEDMENT TO BOLTS IN WALLS OR PIERS
3. PROVIDE 6" OF PROJECTION ON ANCHOR BOLTS
4. PRE-ENG MTL BLDG, REFER TO METAL BLDG ANCHOR BOLT SCHDL
5. REFER TO DETAILS FOR WELDING OF WASHERS AND TENSIONING OF ANCHOR BOLTS



METAL BUILDING ANCHOR BOLT SCHEDULE

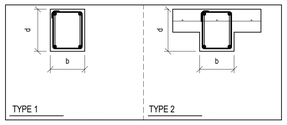
SIZE	EMBED INTO FND
1/2"	15"
5/8"	15"
3/4"	18"
7/8"	21"
1"	24"

ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 55 STRAIGHT THREADED ROD w/ NUT TACK WELDED TO EMBED END

BASE PLATE AND ANCHOR BOLT SCHEDULE

MARK	TYPE	b (INCHES)	d (INCHES)	VERTICAL REINFORCING	x (INCHES)	TIE SIZE	TIE SPACING (INCHES)
P-1	2	24"	12"	(2) #6 U-BARS	21"	#3	3 @ 2.5" OC
P-2	1	12"	15"	(2) #6 U-BARS	9"	#3	3 @ 2.5" OC
P-3	1	14"	17"	(2) #6 U-BARS	11"	#3	3 @ 2.5" OC
P-4	1	29"	24"	(3) #6 U-BARS	21"	#3	3 @ 2.5" OC

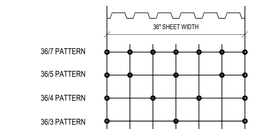
NOTES:
1. PROVIDE 1 1/2" CLR SPACING FOR ALL TIES
2. CONTINUE WALL STEEL THRU ALL PILASTERS

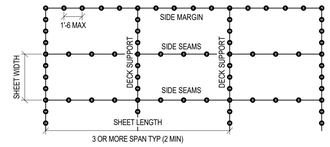


PIER AND PILASTER SCHEDULE

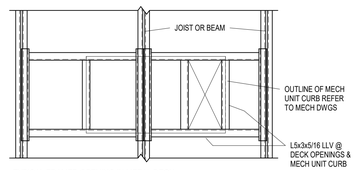
	FASTENERS		
	DECK SUPPORT	SIDE MARGIN	SIDE SEAM
LOCATION	5/8" PUDDLE WELD	5/8" PUDDLE WELD	#12 TEK SCREW
ROOF	36/4	12" OC	1 / SPAN

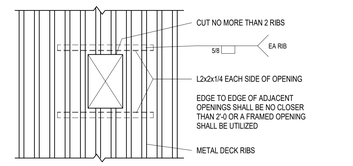
NOTES:
1. 2" MIN SHEET END LAP
2. HILTI X-HRN OR X-ENP PAF MAY BE USED IN LIEU OF WELDS. REFER TO HILTI FOR APPROPRIATE FASTENER FOR STRUCTURAL THICKNESS.

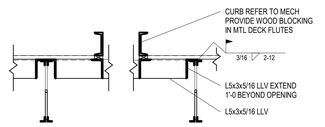


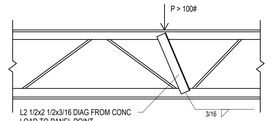


METAL DECK ATTACHMENT SCHEDULE



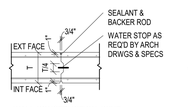


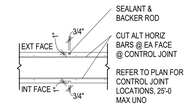


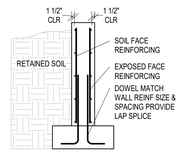


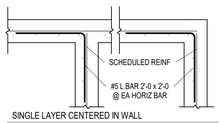
METAL DECK OPENING STANDARD DETAILS

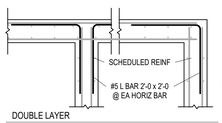
SINGLE LAYER REINFORCING			
MARK	WIDTH		CENTERED
1	6"	VERT	#4 @ 12" OC
		HORIZ	#4 @ 12" OC

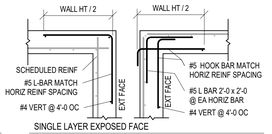








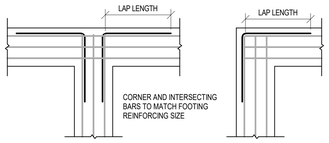




CIP CONCRETE WALL SCHEDULE AND STANDARD DETAILS

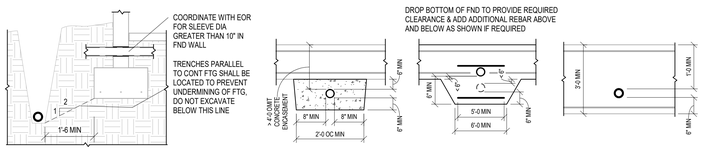
CONTINUOUS FOOTING SCHEDULE			
MARK	WIDTH	DEPTH	REINFORCING
CF-1	1'-0"	3'-4"	(2) #5 TOP & BOTTOM
CF-3	1'-4"	3'-4"	(2) #5 TOP & BOTTOM
CF-4	1'-8"	3'-4"	(3) #5 TOP & BOTTOM
CF-5	2'-4"	3'-4"	(4) #5 TOP & BOTTOM

PAD FOOTING SCHEDULE				
MARK	WIDTH	LENGTH	DEPTH	REINFORCING
F-1	3'-0"	3'-0"	3'-4"	(5) #5 EA WAY TOP & BOTTOM
F-2	4'-0"	4'-0"	3'-4"	(6) #5 EA WAY TOP & BOTTOM
F-3	6'-0"	6'-0"	3'-4"	(6) #6 EA WAY TOP & BOTTOM



CONTRACTOR TO PROVIDE #4 STIRRUPS AT 4'-0 OC OR ALTERNATE MEANS OF SUPPORT FOR REBAR IN CONTINUOUS FOOTINGS

FOOTING SCHEDULES



NOTE: PROVIDE 1 1/2" CLR AROUND ALL PIPES. COORDINATE ANY SLEEVES LARGER THAN 10" w/ EOR

TYPICAL FOOTING DETAILS AT UNDERGROUND PLUMBING

BCDM architects

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3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

STRUCTURAL SCHEDULES

S1-2

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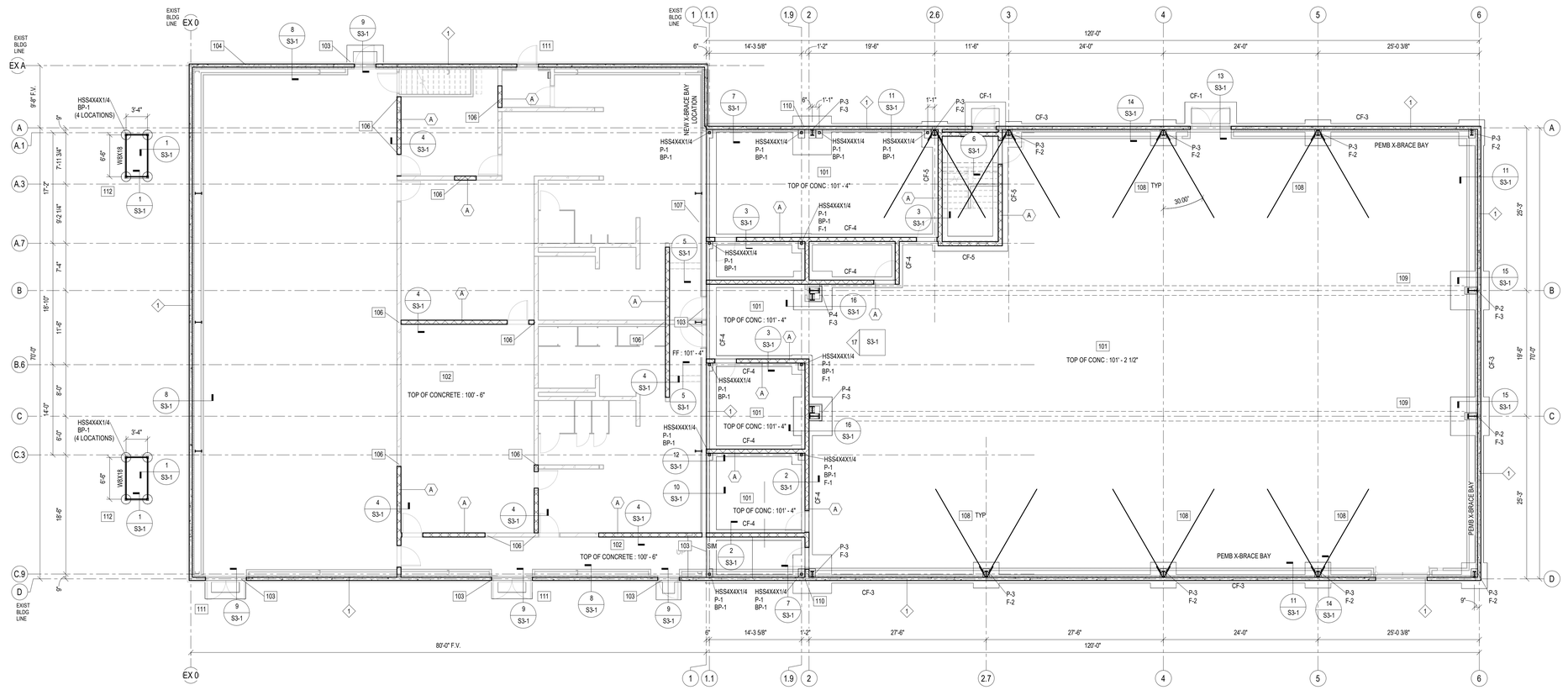

1 FOUNDATION PLAN
S2-1
1/8" = 1'-0"

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

GENERAL FOUNDATION PLAN NOTES

1. REFER TO DESIGN DATA, SCHEDULES & TYP DETAILS
2. # INDICATES KEYNOTE REFER TO PLAN FOR LOCATION
3. TOF = 99'-4 UNLESS NOTED OTHERWISE
4. COLUMN SCHEDULE GUIDE:
   C-X COLUMN MARK
   BP-X BASE PLATE MARK
   P-X PIER MARK
   F-X FOOTING MARK
   XX-X TOP OF FOOTING
5. WALL TYPE SCHEDULE GUIDE:
   # CMU WALL
   # CIP WALL

FOUNDATION KEYNOTES

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

101	4" CIP SLAB ON PROPERLY PREPARED SUBGRADE REFER TO SOILS REPORT. REINFORCE w/ 6x6 W2.9xW2.9 WWF. REFER TO ARCH FOR VAPOR BARRIER.
102	6" CIP SLAB ON EXISTING SLAB. REINFORCE w/ REINFORCE w/ 6x6 W2.9xW2.9 WWF. CLEAN EXISTING SLAB AND STRIP OF ANY FINISH APPLY LATEX BONDING AGENT PRIOR TO CASTING NEW SLAB
103	PROVIDE JAMB MEMBERS, FASTENERS, AND CLIPS @ LOCATIONS OF NEW OPENINGS
104	PROVIDE GIRT, CLIPS, FASTENERS, AND PANEL @ LOCATIONS OF PREVIOUS OPENING
106	ANCHOR NEW CMU INTO EXISTING CMU WALL w/ H&B DW-10HS VENEER ANCHOR @ 16" OC
107	RELOCATE EXISTING CROSS BRACING TO BAY NORTH
108	#5x15'-0 LAP w/ V-BAR
109	8"x1'-6" THICKENED SLAB REINF w/ (2) #6 x CONT. LAP w/ U-BARS EA END, PROVIDE #3 TIES @ 6" OC @ LAPS
110	PROVIDE 2" BUILDING EXPANSION JOINT. CIP STEMWALL CAN RUN CONTINUOUS THROUGH EXPANSION JOINT.
111	6" CIP SLAB ON EXISTING STOOP SLAB. REINFORCE WITH #4 @ 1'-0 OC EA WAY. CLEAN EXIST STOOP APPLY LATEX BONDING AGENT TO EXIST STOOP FOR PLACEMENT OF NEW CONCRETE
112	COORDINATE LOCATION w/ MECHANICAL AND ARCH

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MORRISSEY ENGINEERING
4940 North 118th Street
Omaha, NE 68164

#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BULIDING ADD/RENOV

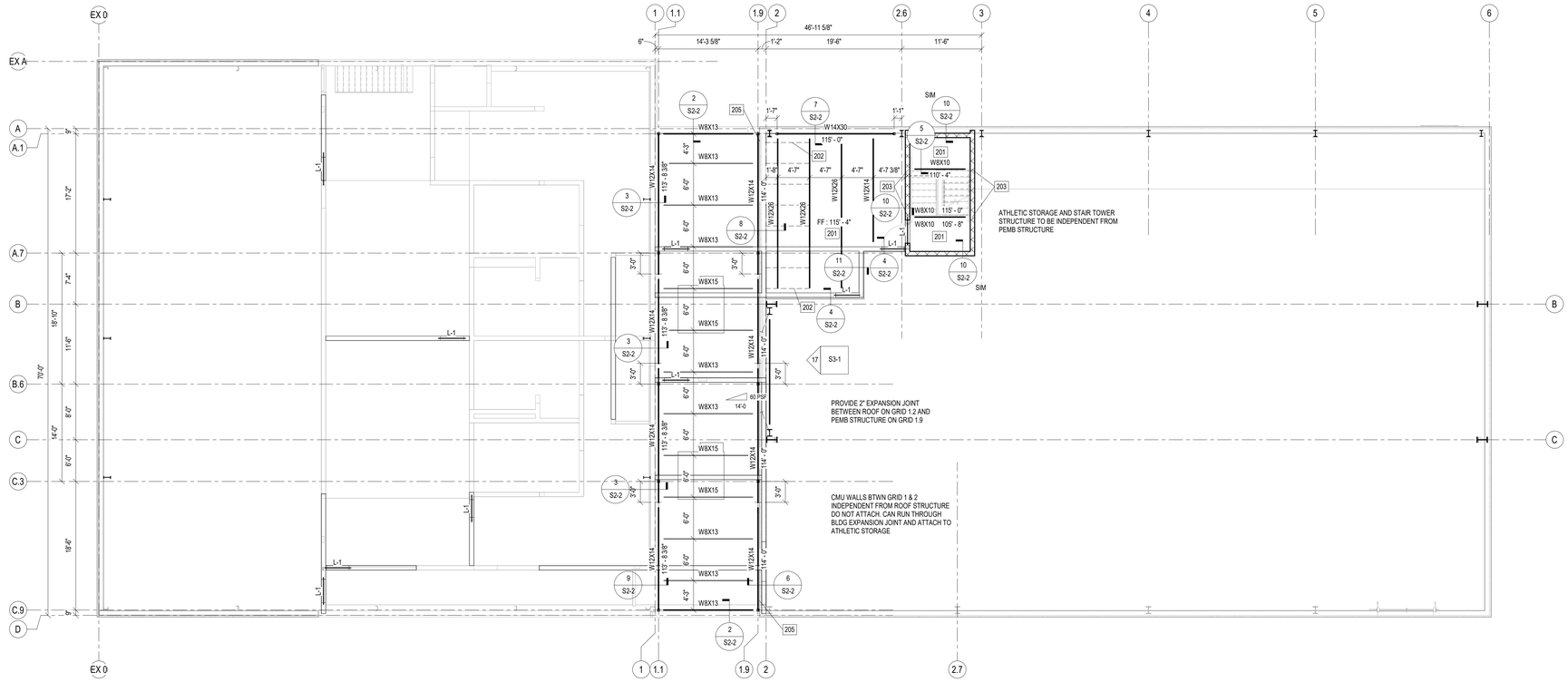
3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FOUNDATION PLAN

S2-1

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



1 S2-2 UPPER LEVEL - LOW
1/8" = 1'-0" 0' 8' 16'

TRUE NORTH
PLAN NORTH

GENERAL ROOF PLAN NOTES

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4. FRAMING KEY
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   - FRAME INTO COLUMN
   - DL/LL END REACTIONS
   - T ### TOP OF STEEL
   - B ### BOTTOM OF STEEL
6. INDICATES BOTTOM FLANGE KICKER - REFER TO DETAILS
7. PSF / FT INDICATES SNOW DRIFT, ADD TO BASE SNOW. REFER TO DESIGN DATA.
8. CONFIRM RTU LOCATIONS, SIZES, AND LOADS w/ MECH FINAL CUT SHEETS. REFER TO METAL DECK SCHEDULE FOR FRAMED OPENINGS
9. JOIST SIZES LISTED ARE PER SJI CODE OF STANDARD PRACTICE CONSIDERING LOADS FROM RTU'S, DRIFTS, AND THOSE LISTED UNDER DESIGN DATA.

ROOF KEYNOTES

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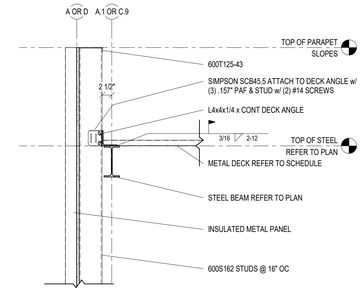
201	4" CIP SLAB ON 1 1/2" VL MTL DECK REINF w/ 6x6-W2.1xW2.1 WWF
202	HSS1 1/2 x 1 1/2 x 3/16 x 6'-0 IN DECK FLUTES @ 3'-0 OC. WELD TO BEAMS & DECK ANGLE
203	PROVIDE 3/8x6x8" EMBED w/ (2) 1/2"x6" HS IN GROUTED CELL. GROUT CELL FULL HEIGHT & WELD BEAM TO EMBED PL w/ 3/16"x5" FILLET EA SIDE. BEAR BEAM ON EMBED 5".
205	PROVIDE 2" BUILDING EXPANSION JOINT BTWN ROOF ON GRID 1.2 & PEMB STRUCUTURE ON GRID 1.9



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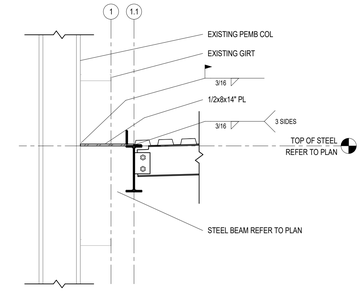

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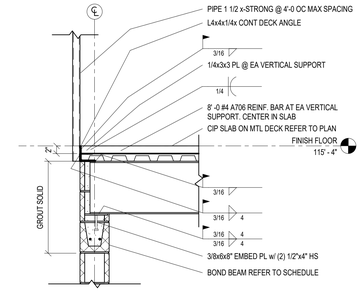

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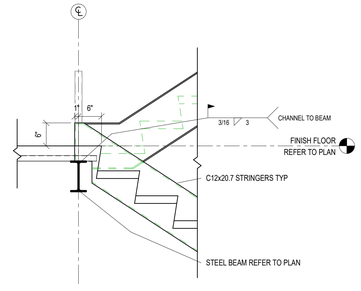

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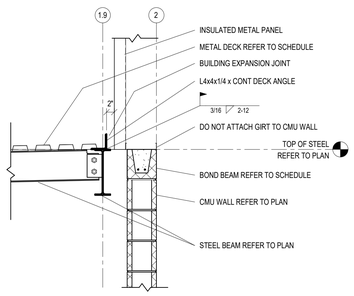

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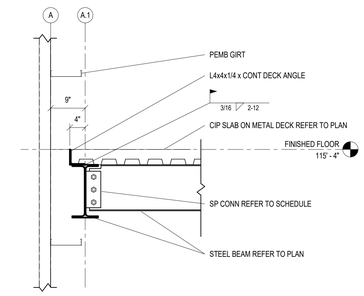

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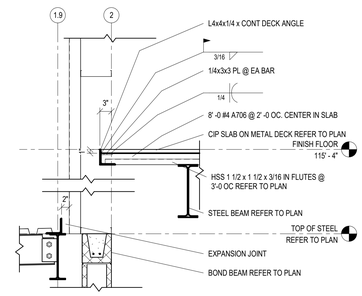

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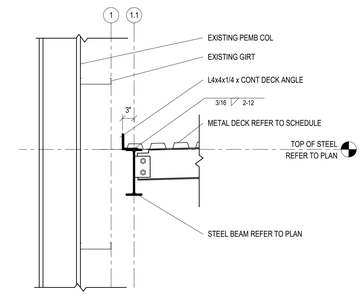

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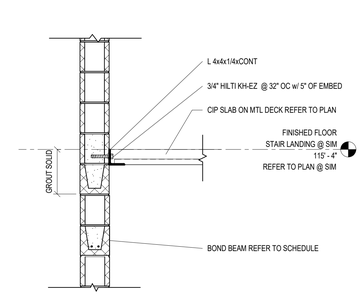

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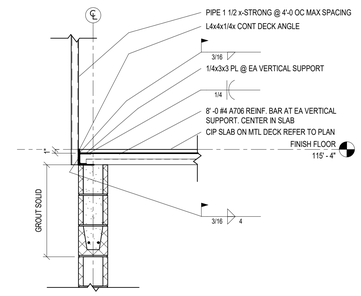

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

UPPER LEVEL FRAMING PLAN AND DETIALS

S2-2

CONSTRUCTION DOCUMENTS
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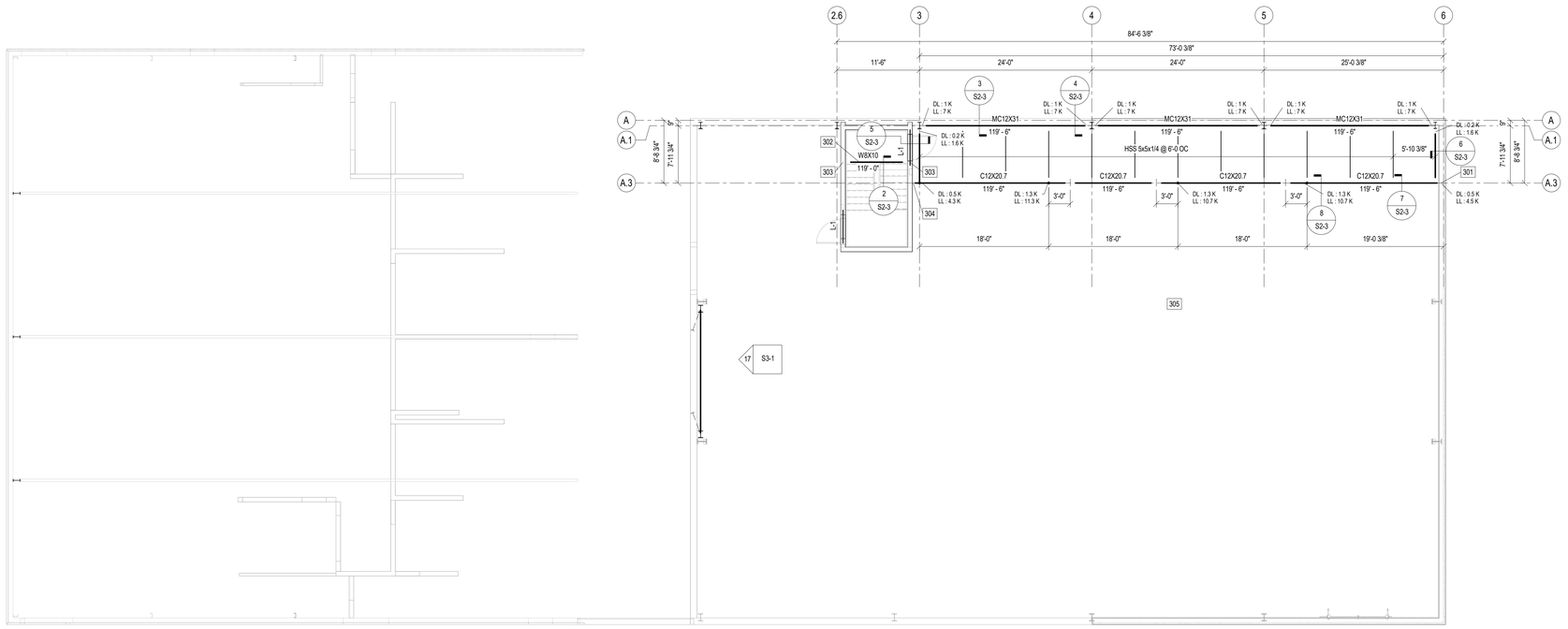

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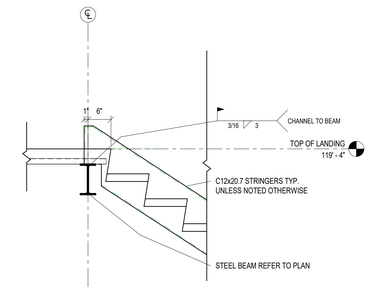

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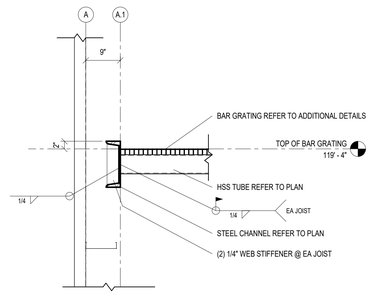

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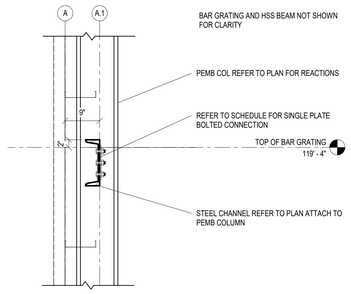

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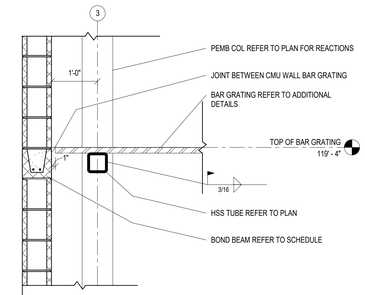

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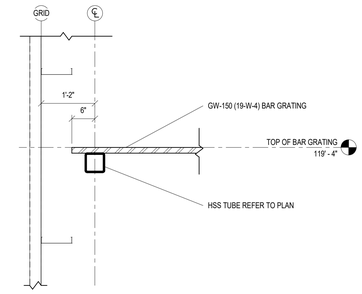

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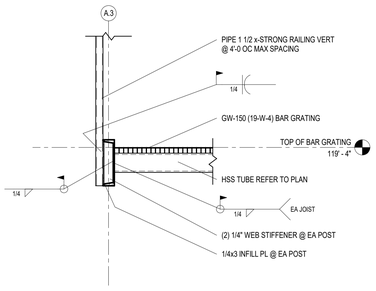

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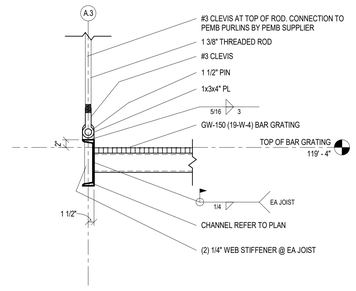

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ROOF KEYNOTES

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301	SUPPORTING MEMBER FOR CHANNEL BY PEMB SUPPLIER. REFER TO SCHEDULE FOR SINGLE PLATE SHEAR CONNECTION.
302	PROVIDE L4x4x1/4 @ LANDING EDGE WELD TO BEAM w/ 3/16 FILLET WELD 2-12
303	PROVIDE 3/8x6x8" 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".
304	PROVIDE 1" JOINT BTWN CMU WALL AND BAR GRATING
305	IN ADDITION TO CATWALK LOAD, PEMB SUPPLIER SHALL DESIGN FOR WRESTLING MAT HOIST LOADS. REFER TO OWNER FOR LOCATION OF MAT HOISTS

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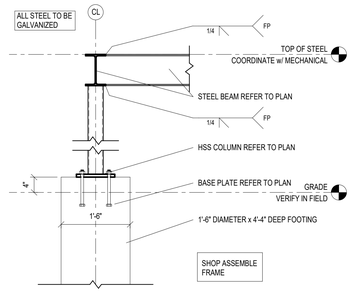
HIGH UPPER LEVEL FRAMING PLAN AND DETAILS

S2-3

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



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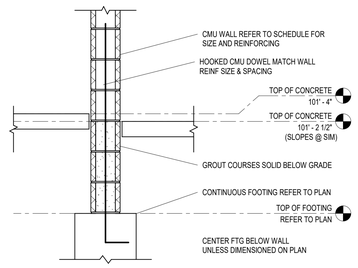

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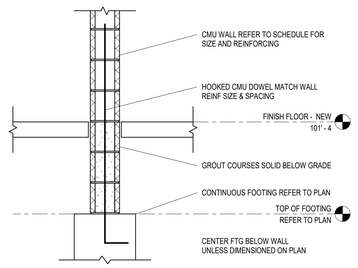

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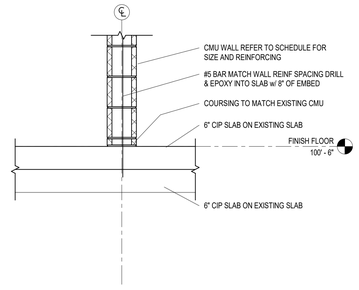

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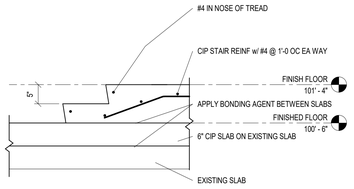

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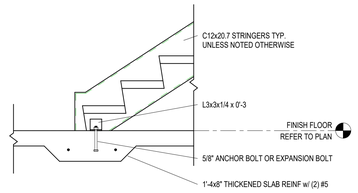

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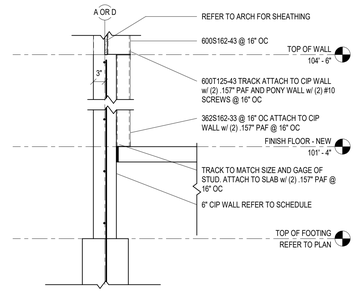

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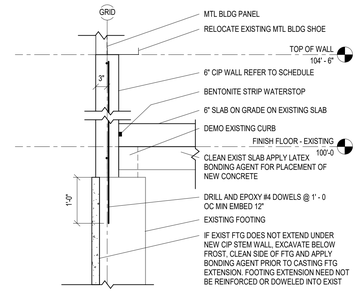

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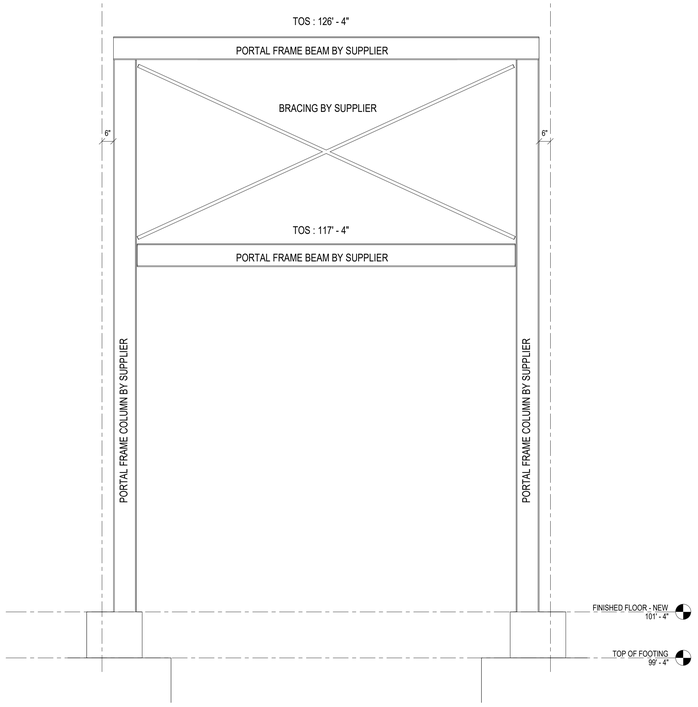
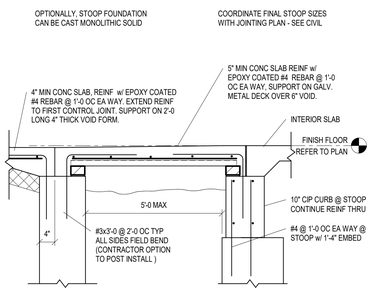


17 S3-1 PORTAL FRAME
3/8" = 1'-0" 0' 2'-8" 5'-4"



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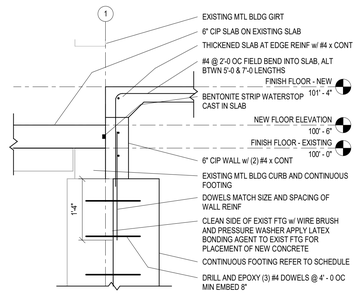

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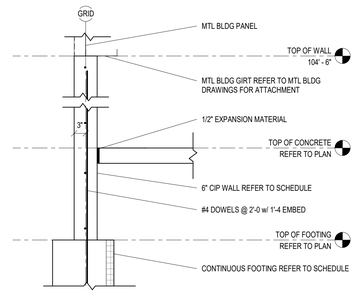

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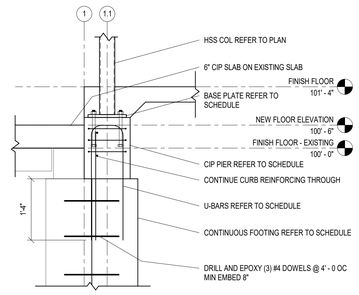

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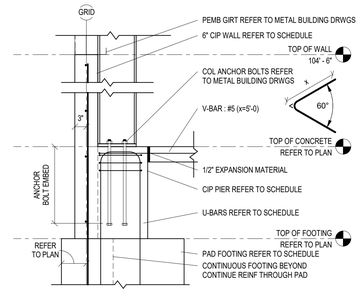

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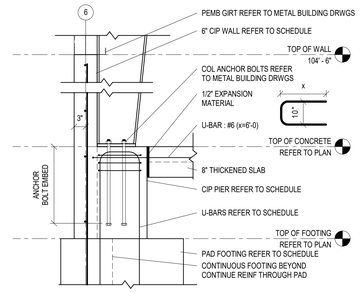
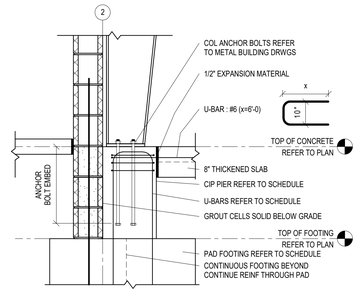


15 S3-1 3/4" = 1'-0" 0' 1'-4" 2'-8"



16 S3-1 3/4" = 1'-0" 0' 1'-4" 2'-8"

BCDM architects

PROJECT TEAM

ARCHITECTURE + INTERIORS

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MECHANICAL + ELECTRICAL ENGINEER

MORRISSEY ENGINEERING
4940 North 118th Street
Omaha, NE 68164

#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BULIDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

STRUCTURAL DETAILS

S3-1

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

LEFT BINDING EDGE

2/23/2026 4:25:18 PM

GENERAL DEMOLITION NOTES

1. ALL MECHANICAL ITEMS SHOWN ARE EXISTING. NOT ALL EXISTING MECHANICAL ITEMS ARE SHOWN. ITEMS MARKED (E) SHALL REMAIN AS IS UNLESS OTHERWISE NOTED. REMOVE ITEMS SHOWN DASHED AND/OR MARKED (D). RELOCATE ITEMS MARKED (R).
2. EXISTING DRAWINGS ARE BASED ON APPROXIMATIONS FROM FIELD OBSERVATIONS. DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, OR FIELD CONDITIONS SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION BEFORE PROCEEDING.
3. HOLES CUT IN WALLS, FLOORS, AND CEILINGS TO PERMIT THE REMOVAL OF EQUIPMENT, PIPING, ETC. SHALL BE CAREFULLY MADE AND RESTRICTED TO THE SMALLEST PRACTICAL SIZE. PATCH ALL HOLES NOT REQUIRED FOR NEW WORK TO MATCH EXISTING.
4. THE OWNER RESERVES THE FIRST RIGHT OF SALVAGE OF ANY ITEMS REMOVED. CONTRACTOR SHALL REMOVE ALL UNWANTED MATERIALS FROM THE SITE. OWNER'S DUMPSTER OR OTHER TRASH RECEPTACLES ARE NOT TO BE UTILIZED.

GENERAL MECHANICAL NOTES

1. DO NOT ROUTE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
2. ALL WORK SHALL COMPLY WITH THE LATEST ADOPTED EDITIONS OF THE INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL ENERGY CONSERVATION CODE (IECC), INTERNATIONAL BUILDING CODE (IBC), NFPA STANDARDS, ASHRAE STANDARDS, AND ALL APPLICABLE LOCAL CODES, ORDINANCES, AND AUTHORITY HAVING JURISDICTION (AHJ) REQUIREMENTS.
3. PROVIDE A MINIMUM OF 10'-0" CLEARANCE TO EXHAUST FANS FROM ALL OUTSIDE AIR INTAKES.
4. MAINTAIN MANUFACTURER'S AND AHJ REQUIRED CLEARANCE AROUND ALL MECHANICAL / ELECTRICAL EQUIPMENT AS REQUIRED FOR PROPER OPERATION AND FOR EASE OF MAINTENANCE. FILTER PULL SPACE SHALL BE PROVIDED.
5. COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
6. PROVIDE ACCESS DOORS AND CLEARANCES FOR ALL EQUIPMENT REQUIRING SERVICE, INCLUDING BUT NOT LIMITED TO DAMPERS, CONTROL VALVES, EQUIPMENT, AND FILTERS.
7. PROVIDE HOUSEKEEPING PAD FOR ALL EQUIPMENT INSTALLED ON SLABS OR GRADE. COORDINATE WITH GENERAL CONTRACTOR.
8. UNLESS OTHERWISE NOTED, ROUTE DUCTWORK AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AS REQUIRED TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
9. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT, SIZE, AND LOCATION OF MECHANICAL SYSTEMS. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE EXACT ROUTING TO AVOID STRUCTURAL, ARCHITECTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION CONFLICTS. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
10. CONTRACTOR SHALL CLEAN ALL HVAC SYSTEMS PRIOR TO TURNOVER. REPLACE ALL FILTERS AT SUBSTANTIAL COMPLETION AND AGAIN AT OCCUPANCY.
11. INSTALL ALL FIRE DAMPERS, FIRE/SMOKE DAMPERS, VOLUME DAMPERS, ETC. ABOVE ACCESSIBLE CEILINGS OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
12. FIRE CAULK ALL DUCTWORK PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES. CAULK AROUND ALL DUCTWORK PENETRATIONS THROUGH FULL HEIGHT SOUND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION. ALL PENETRATIONS OF FIRE-RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION.
13. PROVIDE UNIONS, VALVES, DRAINS, AND AIR VENTS AS REQUIRED FOR PROPER OPERATION AND MAINTENANCE OF THE PIPING SYSTEMS.
14. CENTER DIFFUSERS, REGISTERS, AND GRILLES IN CEILING TILES WHERE 24x24 OR 24x12 CEILING DEVICES ARE NOT USED.
15. WHERE DIMENSIONS OR CLEARANCES ARE NOT SHOWN, REFER TO EQUIPMENT MANUFACTURER REQUIREMENTS AND MAINTAIN ALL IMC AND AHJ REQUIRED SERVICE CLEARANCES.
16. PROVIDE FIRE AND SMOKE DAMPERS WHERE REQUIRED BY CODE. COORDINATE LOCATIONS WITH FIRE-RATED ASSEMBLIES. INSTALL PER MANUFACTURER INSTRUCTIONS AND NFPA 80/105.
17. ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE FIRESTOPPED USING UL-LISTED SYSTEMS. COORDINATE WITH GENERAL CONTRACTOR.
18. DUCTWORK SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS UNLESS NOTED OTHERWISE.
19. CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS REFLECTING ACTUAL INSTALLED CONDITIONS, INCLUDING HIDDEN ROUTING CHANGES, VALVE LOCATIONS, AND CONTROL WIRING.
20. SPACE ABOVE NEW ADDITION CEILINGS SHALL BE MAINTAINED AS A RETURN AIR PLENUM PER APPLICABLE BUILDING CODES AND AHJ. COMBUSTIBLE MATERIALS ARE NOT PERMITTED WITHIN RETURN AIR PLENUM. ONLY PLENUM RATED MATERIALS CAN BE EXPOSED TO RETURN AIR PLENUM.
21. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT, SUPPORTS, LOW/LINE VOLTAGE WIRING, AND ACCESSORIES NECESSARY FOR COMPLETE AND OPERABLE MECHANICAL SYSTEMS, WHETHER OR NOT EACH ITEM IS SPECIFICALLY SHOWN OR LISTED.
22. SEE ELECTRICAL DRAWINGS DEVICE ALIGNMENT DETAIL FOR ALL SENSOR AND/OR CONTROL DEVICE INSTALLATION HEIGHTS AND SPACING NOTES UNLESS OTHERWISE NOTED. IF DEVICE ALIGNMENT DETAIL NOT AVAILABLE, MOUNT AT PREFERRED MOUNTING HEIGHT WHERE APPLICABLE, SEE SPECIFICATIONS, OR CONFIRM WITH ENGINEER PRIOR TO INSTALLATION.

GENERAL DETAIL REFERENCES APPLICABLE TO ALL HVAC SHEETS

1 / M3-1 — PROVIDE DUCTWORK FITTINGS PER DETAIL NOTED.

2 / M3-1 — PROVIDE RUN OUTS TO DIFFUSERS AND REGISTERS SHALL MATCH NECK SIZE UNLESS OTHERWISE NOTED PER DETAIL NOTED.

2 / E0-0 — COORDINATE DEVICE LOCATIONS WITH ELECTRICAL CONTRACTOR.

GENERAL PLUMBING NOTES

1. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
2. MAINTAIN MINIMUM 10'-0" CLEARANCE TO WASTE VENTS FROM ALL FRESH AIR INTAKES.
3. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE AND FILTER ACCESS.
4. COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
5. UNLESS OTHERWISE NOTED, ROUTE PIPING AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, DUCTWORK, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
6. PLANS ARE SCHEMATIC IN NATURE. PIPE ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
7. INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
8. DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS UNLESS OTHERWISE NOTED. PIPING ROUTED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF INSULATION.
9. FIRE CAULK ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES. CAULK AROUND ALL PIPE PENETRATIONS THOUGH FULL HEIGHT SOUND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION. ALL PENETRATIONS OF FIRE-RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION.
10. SPACE ABOVE NEW ADDITION CEILINGS SHALL BE MAINTAINED AS A RETURN AIR PLENUM PER APPLICABLE BUILDING CODES AND AHJ. COMBUSTIBLE MATERIALS ARE NOT PERMITTED WITHIN RETURN AIR PLENUM. ONLY PLENUM RATED MATERIALS CAN BE EXPOSED TO RETURN AIR PLENUM.
11. ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE. NOT ALL CLEANOUTS SHOWN. PROVIDE CLEANOUTS AS REQUIRED PER AUTHORITY HAVING JURISDICTION. COORDINATE CLEANOUT LOCATIONS WITH GENERAL CONTRACTOR.
12. SEE WASTE AND VENT RISER DIAGRAMS ON SHEET M3-2 FOR COMPLETE PLUMBING SIZES AND CONFIGURATION.
13. SEE PLUMBING FIXTURE SCHEDULE SHEET M4-2 FOR PLUMBING FIXTURE CONNECTION REQUIREMENTS.

GENERAL HVAC TEMPERATURE CONTROL NOTES

1. THE DIRECT DIGITAL CONTROL SYSTEM SHALL BE AN EXTENSION OF THE LEWIS CENTRAL MIDDLE CONTROL SYSTEM USED BY THE LEWIS CENTRAL SCHOOL DISTRICT.
2. THE BUILDING TEMPERATURE CONTROL SYSTEM SHALL INCLUDE CONTROLS IDENTIFIED ON THIS SHEET. PROVIDE PANELS, CONTROLLERS, SENSORS, RELAYS AND NECESSARY PROGRAMMING FOR SYSTEM OPERATION.
3. PROVIDE GRAPHICS PAGE ON FACILITIES BUILDING AUTOMATION SYSTEM FOR OFFSITE VIEWING AND REMOTE ADJUSTMENTS. MATCH BUILDING STANDARDS.

FIRE SPRINKLER GENERAL NOTES

1. THE ENTIRE BUILDING SHALL BE PROTECTED BY A FIRE SUPPRESSION SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, THE AUTHORITY HAVING JURISDICTION, AND APPLICABLE SPECIFICATIONS.
2. PROVIDE AN AUTOMATIC, WET-PIPE SPRINKLER SYSTEM THROUGHOUT THE BUILDING. SYSTEMS SHALL BE COMPLETE IN ALL ASPECTS AND READY FOR OPERATION INCLUDING, BUT NOT LIMITED TO, TEST AND DRAIN LINES, PRESSURE GAUGES, HANGERS AND SUPPORTS, SIGNS, AND OTHER STANDARD APPURTENANCES. WIRING SHALL BE PROVIDED UNDER THE ELECTRICAL DIVISION.
3. PROVIDE A FIRE SERVICE ENTRANCE WITH A DOUBLE CHECK BACKFLOW PREVENTER, ISOLATION VALVES, CHECK VALVES, FLOW SWITCHES, ETC. AS REQUIRED BY NFPA 13, THE AUTHORITY HAVING JURISDICTION, LOCAL CODES, AND APPLICABLE SPECIFICATIONS.
4. THE FIRE SPRINKLER CONTRACTOR SHALL VERIFY AVAILABLE PRESSURE AND FLOW. PIPING SHALL BE SIZED TO MEET THE REQUIREMENTS OF NFPA 13, THE AUTHORITY HAVING JURISDICTION, AND APPLICABLE SPECIFICATIONS. HYDRAULIC CALCULATIONS AND SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. A SECOND SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AFTER THE STATE FIRE MARSHAL HAS REVIEWED THE DESIGN.
5. PIPING MATERIAL AND SPRINKLER HEADS SHALL MEET THE REQUIREMENTS OF NFPA 13, THE AUTHORITY HAVING JURISDICTION, AND APPLICABLE SPECIFICATIONS.
6. MINIMIZE EXPOSED PIPING IN OCCUPIED AREAS WITHOUT CEILINGS. IN SPACES WITHOUT CEILINGS, SPRINKLER HEADS AND PIPING SHALL BE LOCATED AS HIGH AS POSSIBLE. ROUTE FIRE SPRINKLER MAINS ALONG STRUCTURE TO MINIMIZE VISIBILITY. PAINT EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. DO NOT PAINT HEADS.
7. UNLESS OTHERWISE NOTED, FIRE SPRINKLER HEADS IN AREAS WITH CEILINGS SHALL BE CONCEALED TYPE WITH FLAT PLATE COVERS. UNLESS OTHERWISE NOTED, STANDARD COVER COLORS SELECTED BY ARCHITECT. CENTER ALL FIRE SPRINKLER HEADS IN CEILING TILES. QUARTER POINTS OF LARGE FORMAT TILES (LARGER THAN 2' x 2') ARE ACCEPTABLE. FLEXIBLE HEAD CONNECTORS WILL BE ALLOWED.
8. DO NOT INSTALL FIRE SPRINKLER PIPING OR FIRE SPRINKLER HEADS ABOVE ELECTRICAL PANELS OR IN CODE REQUIRED CLEARANCES. MINIMIZE PIPING ROUTED THROUGH ELECTRICAL AND IT ROOMS. PROVIDE PIPE GUARDS ON ALL HEADS LOCATED IN THESE TYPES OF SPACES.
9. COORDINATE ALL WALL AND FLOOR PENETRATIONS WITH THE GENERAL CONTRACTOR. SEAL PENETRATIONS OF THE EXTERIOR ENVELOPE WEATHERTIGHT. FIRE CAULK ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES. CAULK AROUND ALL PIPE PENETRATIONS THROUGH FULL HEIGHT SOUND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION TYPES. ALL PENETRATIONS OF FIRE-RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION.
10. COORDINATE FIRE SPRINKLER PIPE ROUTING AND FIRE SPRINKLER HEAD LOCATIONS WITH DIFFUSERS, REGISTERS, GRILLES, FIRE ALARM DETECTORS, LIGHTS AND CEILING PLANS.
11. THE FIRE SPRINKLER CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID CONFLICTS. 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 TO THE PROJECT.
12. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
13. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES AROUND ALL EQUIPMENT TO ALLOW PROPER OPERATION AND EASY MAINTENANCE.

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	TYPICAL PIPING		
	PIPE TEE / PIPE ELBOW		UNION
	ELBOW DN / ELBOW UP		STRAINER
	ISOLATION VALVE (BALL OR BUTTERFLY)		CHECK VALVE (ARROW INDICATES FLOW)
	BALANCING VALVE		AUTOMATIC CONTROL VALVE TWO-WAY/THREE-WAY
	GATE VALVE		PRESSURE REGULATING VALVE (PRV)
	GLOBE VALVE		PRESSURE GAUGE
	PRESSURE/TEMPERATURE TEST PORT		THERMOMETER
	TYPICAL PLUMBING		
WC	WATER CLOSET (SEE SPECIFICATIONS FOR TYPE)		GAS COCK
UR	URINAL (SEE SPECIFICATIONS FOR TYPE)	FD-1	FLOOR DRAIN - SIZE TYPE
L	LAVATORY (SEE SPECIFICATIONS FOR TYPE)	RD-1	ROOF DRAIN - SIZE TYPE
S	SINK (SEE SPECIFICATIONS FOR TYPE)	OD-1	OVERFLOW DRAIN - SIZE TYPE
EWC	ELECTRIC WATER COOLER (SEE SPECIFICATIONS FOR TYPE)	HB	HOSE BIBB
MS	MOP SINK (SEE SPECIFICATIONS FOR TYPE)	WH	WALL HYDRANT (NON-FREEZE)
DI	DUCTILE IRON	VTR	VENT THROUGH ROOF
CI	CAST IRON	I.E.	INVERT ELEVATION
PVC	POLY VINYL CHLORIDE	F.L.	FLOW LINE
	AIR VENT		
	HVAC		
M3-1 / 10"	SIDEWALL SUPPLY REGISTER OR GRILLE — NECKSIZE (IN), TAG / AIRFLOW (CFM)	S	SENSOR
		T	THERMOSTAT
M3-1 / 10"	SIDEWALL RETURN OR EXHAUST REGISTER OR GRILLE — NECKSIZE (IN), TAG / AIRFLOW (CFM)	H	HUMIDISTAT
		CO2	CARBON DIOXIDE SENSOR
M3-1 / 10"	SUPPLY AIR REGISTER — NECKSIZE (IN), TAG / AIRFLOW (CFM)	OS	OCCUPANCY SENSOR
		D	MOTORIZED CONTROL DAMPER WITH ACTUATOR
	SUPPLY AIR , OUTSIDE AIR OR MIXED AIR DUCT END OR RISER UP/RISER DN	BD	BACKDRAFT DAMPER
		VD	VOLUME DAMPER
	RETURN AIR, EXHAUST AIR OR RELIEF AIR DUCT END OR RISER UP/RISER DN	FD	FIRE DAMPER WITH SLEEVE AND ACCESS DOOR
		SD	SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR
12/8	RECTANGULAR DUCTWORK (WIDTH/DEPTH)(IN) (FIRST NUMBER IS SIDE SHOWN)	FSD	FIRE/SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR
			TURNING VANES
12"Ø	ROUND DUCTWORK (DIAMETER)(IN) (SPIRAL DUCT IN EXPOSED AREAS)		
	FIRE PROTECTION		
P.I.V.	POST INDICATOR VALVE		FIRE HYDRANT
F.D.C.	FIRE DEPARTMENT CONNECTION		O.S.& Y VALVE
FHC	FIRE HOSE CABINET	FS	FLOW SWITCH
FEC	FIRE VALVE CABINET		

PIPING ABBREVIATIONS

DESCRIPTION	ABBV.
Condensate	CD
Domestic Cold Water	CW
Domestic Hot Water	HW
Domestic Hot Water Recirc	HWC
Fire Protection Wet	F
Natural Gas	G
Sanitary	W
Storm	ST
Storm Overflow	OF
Vent	V

DUCT ABBREVIATIONS

DESCRIPTION	ABBV.
Exhaust Air	EA
Raw Outside Air	OA
Return Air	RA
Supply Air	SA

ENERGY CODE COMPLIANCE

CODE	2012 IECC	REMARKS
ComCHECK	YES	(1)
COMMISSIONING	YES	(2) (3) (4)
TAB REPORT	YES	(3) (4)

REMARKS:

1. ComCHECK COMPLIANCE REPORT CAN BE FOUND ON THIS SHEET.
2. MECHANICAL SYSTEMS COMMISSIONING IS REQUIRED.
3. REQUIRED DOCUMENTS (REFER TO CODE) SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER REPRESENTATIVE WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
4. SEE RESPECTIVE SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: 25612 Lewis Central Athletic
Location: Council Bluffs, Iowa
Climate Zone: 5a
Project Type: Addition

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

4 RTU-1,2,3,4 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 210 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE)
Cooling: 1 each - Single Package DX Unit, Capacity = 110 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.60 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 14.80 IEER, Required Part Load Efficiency = 11.20 IEER
Fan System: FAN SYSTEM 1 -- Compliance (Brake HP and fan efficiency method) : Fails: FAN 2 : FAILS: Nameplate HP is greater than max nameplate hp ENERGY CODE COMPLIANT EQUIPMENT ASSEMBLY

Fans:
FAN 1 Supply, Single-Zone VAV, 3000 CFM, 4.0 motor nameplate hp, 2.9 design brake hp (2.9 max. BHP)
FAN 2 Return, Single-Zone VAV, 3000 CFM, 4.0 motor nameplate hp, 1.8 design brake hp (1.8 max. BHP)

1 Water Heater:
Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump
Proposed Efficiency: 96.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Brad Shaner - Mechanical Engineer — Name - Title
Brad Shaner — Signature
02-19-2026 — Date

Project Title: 25612 Lewis Central Athletic — Report date: 02/14/26
Data filename: — Page 1 of 8

BCDM architects

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4940 North 118th Street
Omaha, NE 68164

#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BULIDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

MECHANICAL COVERSHEET

M0-0

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

MEI PROJECT NO: 25612

morrissey engineering inc
mechanical | electrical | lighting | technology | sustainability
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note:
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at 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.

LEFT BINDING EDGE

2/23/2026 4:25:19 PM

MECHANICAL GENERAL NOTES

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

KEYNOTES

M001 REMOVE EXISTING SIDEWALL MOUNTED EXHAUST FANS AND ASSOCIATED DUCTWORK COMPLETE.

M002 REMOVE EXISTING GAS WATER HEATER AND STORAGE TANK WITH ASSOCIATED PIPING AND DUCTWORK COMPLETE.

M003 REMOVE EXISTING WATER SERVICE ENTRANCE COMPLETE TO BE RELOCATED. COORDINATE WITH NEW WORK.

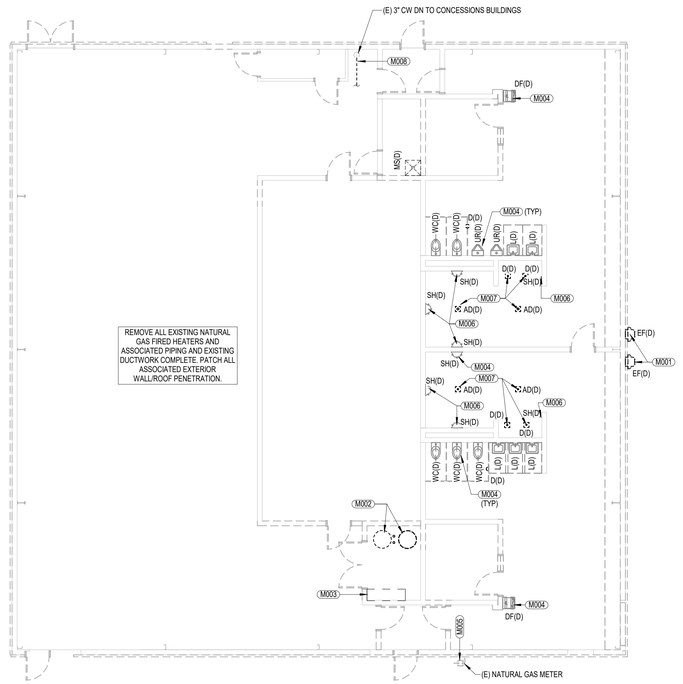
M004 REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING COMPLETE.

M005 REMOVE EXISTING NATURAL GAS PIPING BACK TO METER. PREPARE FOR NEW CONNECTION. COORDINATE WITH NEW WORK.

M006 REMOVE EXISTING PLUMBING FIXTURE TO BE REPLACED IN SAME LOCATION. COORDINATE WITH NEW WORK. CUT AND PATCH EXISTING WALLS OR FLOOR AS NECESSARY TO PROVIDE CONNECTION FROM EXISTING PIPING TO NEW CONNECTION LOCATIONS.

M007 REMOVE EXISTING FLOOR DRAIN TO BE REPLACED IN SAME LOCATION. COORDINATE WITH NEW FLOOR SLAB WORK.

M008 REMOVE EXISTING CW CONNECTION TO EXISTING CW PIPING DROP THROUGH FLOOR TO SERVE EXISTING HIGH SCHOOL CONCESSIONS BUILDING. PIPING THROUGH THE FLOOR SHALL REMAIN. PREPARE FOR NEW CONNECTION FROM NEW WATER SERVICE. COORDINATE WATER SERVICE DOWN TIME WITH ARCHITECT AND DISTRICT TO MINIMIZE DOWN TIME AS MUCH AS POSSIBLE.



1 FLOOR PLAN - MECHANICAL DEMOLITION
MD1-1
1/8" = 1'-0" 0' 8' 16'

TRUE NORTH PLAN NORTH

BCDM architects

PROJECT TEAM

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FLOOR PLAN - MECHANICAL DEMOLITION

MD1-1

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

MEI PROJECT NO: 25612

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LEFT BINDING EDGE

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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

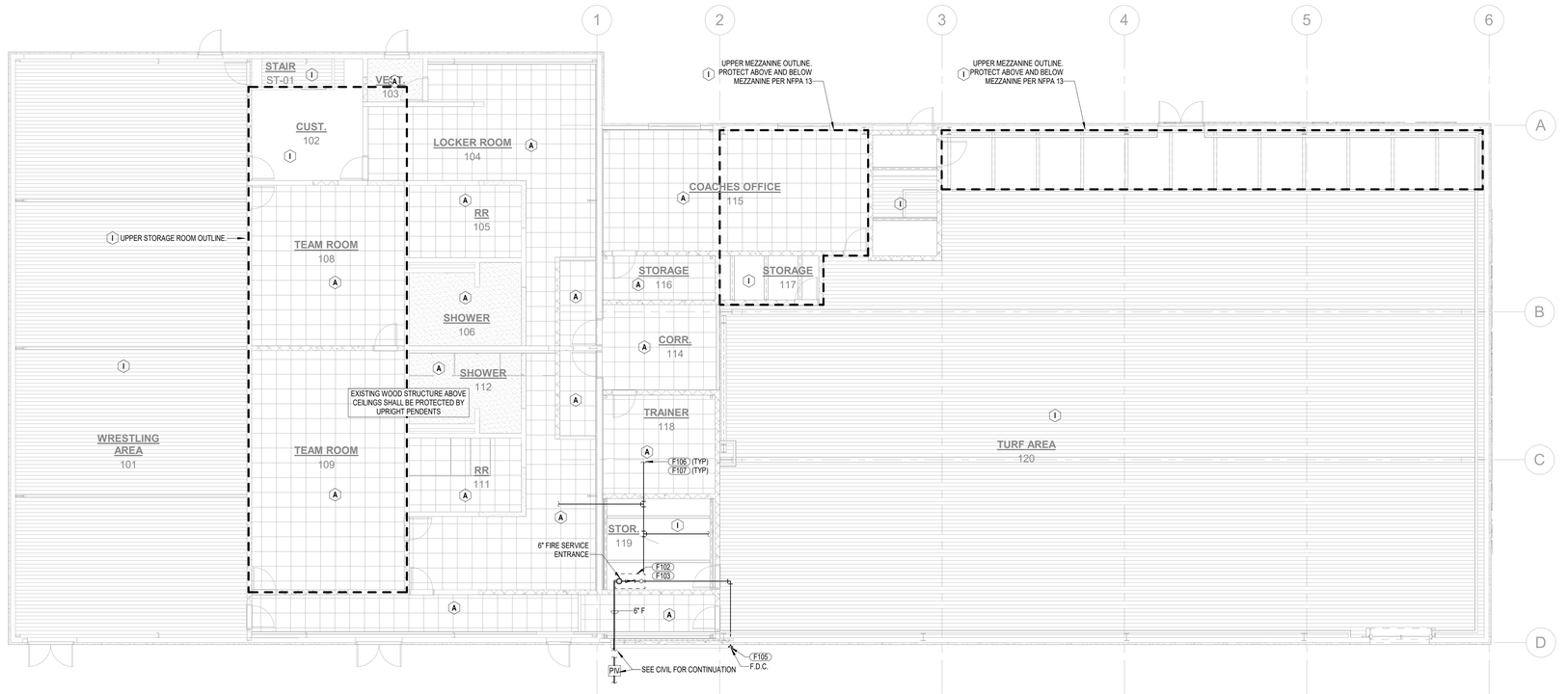
F102 PROVIDE 6" FIRE WATER MAIN FOR FIRE SPRINKLER SERVICE. MAINTAIN CLEAR SPACE FOR FIRE SERVICE ENTRANCE.

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.



1 F1-1 FLOOR PLAN - FIRE PROTECTION
1/8" = 1'-0" 0' 8' 16'

TRUE NORTH PLAN NORTH

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3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FLOOR PLAN - FIRE SUPPRESSION

F1-1

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

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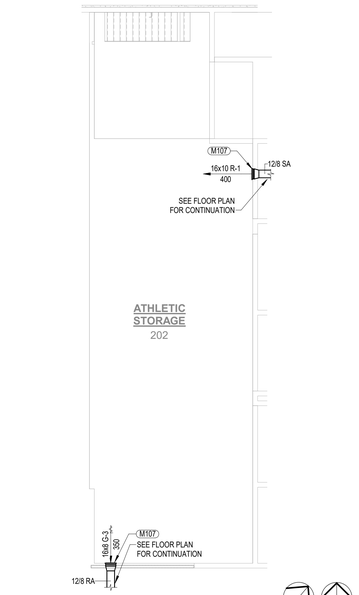
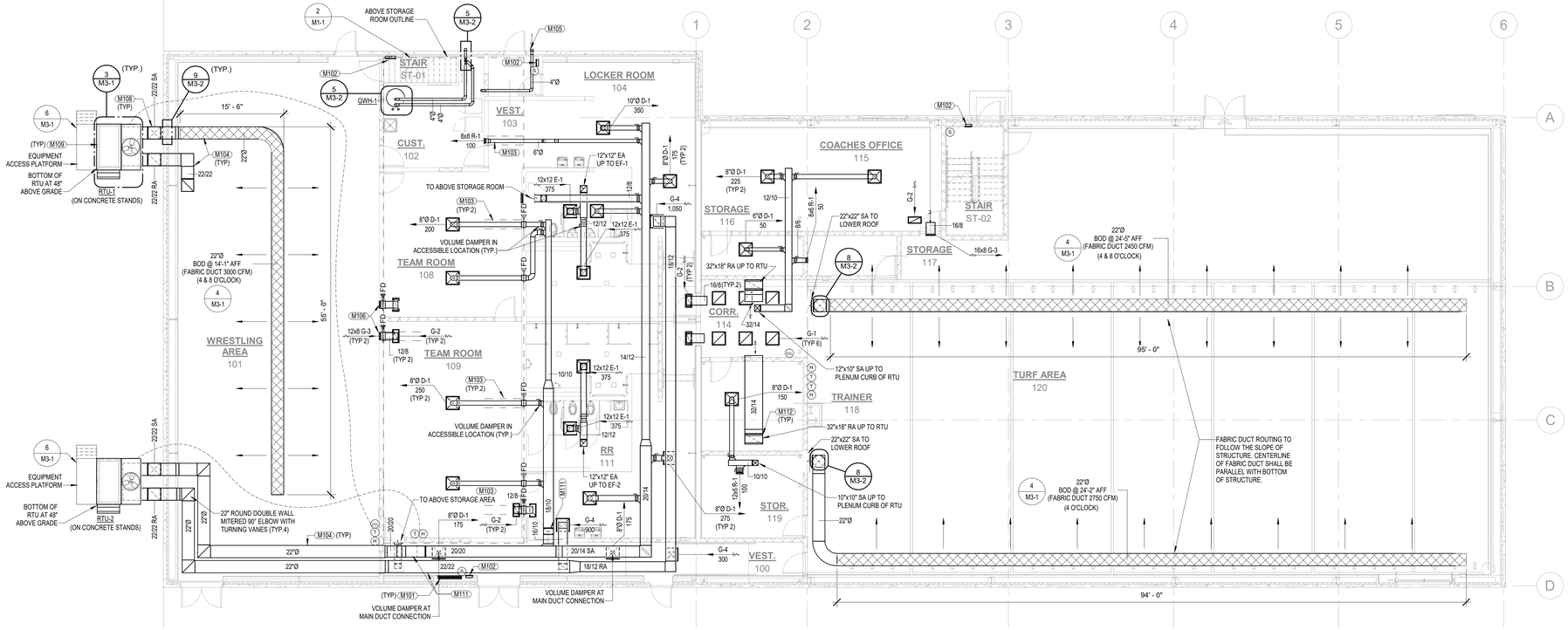


2 M1-1 UPPER STORAGE PLAN - HVAC

1/8" = 1'-0" 0' 8' 16'

TRUE NORTH PLAN NORTH



1 M1-1 FLOOR PLAN - HVAC

1/8" = 1'-0" 0' 8' 16'

TRUE NORTH PLAN NORTH

MECHANICAL GENERAL NOTES

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

KEYNOTES

M101 DO NOT ROUTE DUCTWORK OVER ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.

M102 WALL MOUNTED ELECTRIC UNIT HEATER BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.

M103 ROUTE DUCTWORK CENTERED THROUGH EXISTING STRUCTURE. FIELD VERIFY EXISTING STRUCTURE DEPTH AND SPACING PRIOR TO ROUTING. TRANSITION, EXTEND AND OFFSET NEW DUCTWORK AS REQUIRED TO MAKE CONNECTION AND AVOID CONFLICTS.

M104 ROUTE EXPOSED DUCTWORK AS HIGH AS POSSIBLE. COORDINATE WITH EXISTING STRUCTURE AND OTHER TRADES FOR ROUTING.

M105 PROVIDE 4" WALL CAP WITH BACKDRAFT DAMPER FOR DRYER DISCHARGE. MAINTAIN 3 FEET CLEARANCE TO OPERABLE OPENINGS.

M106 MOUNT GRILLE AS HIGH AS POSSIBLE TO ROUTE DUCT THROUGH TEAM ROOM STRUCTURE. COORDINATE EXACT LOCATION WITH EXISTING STRUCTURE AND ARCHITECTURAL ITEMS ON WALLS.

M107 MOUNT REGISTER OR GRILLE AS HIGH AS POSSIBLE IN UPPER STORAGE ROOM.

M108 SECURE EXTERIOR DUCTWORK TO EXTERIOR WALL AND ROOFTOP UNIT STRUCTURAL SUPPORT. SEE PROJECT SPECIFICATIONS FOR DUCTWORK SUPPORTS. BOTTOM OF EXTERIOR DUCTWORK IS REQUIRED TO BE 12" ABOVE GRADE.

M109 INSTALL ROOFTOP UNIT ON GRADE MOUNTED STRUCTURAL SUPPORT SYSTEM PER MANUFACTURERS RECOMMMENDATIONS. MAINTAIN MANUFACTURER REQUIRED CLEARANCES FROM EXTERIOR DUCTWORK. SEE STRUCTURAL DRAWINGS FOR SUPPORT SYSTEM.

M111 TRANSITION DUCTWORK TO LOWER ELEVATION IN CEILING SPACE AS NECESSARY FOR DOWNSTREAM DUCTWORK CONNECTIONS.

M112 ROUTE DUCTWORK UP TO ROOFTOP. TRANSITION DUCTWORK AS REQUIRED. VERIFY SIZE AND LOCATION OF RTU CONNECTION WITH ACTUAL UNIT PROVIDED AND STRUCTURE.

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FLOOR PLAN - HVAC

M1-1

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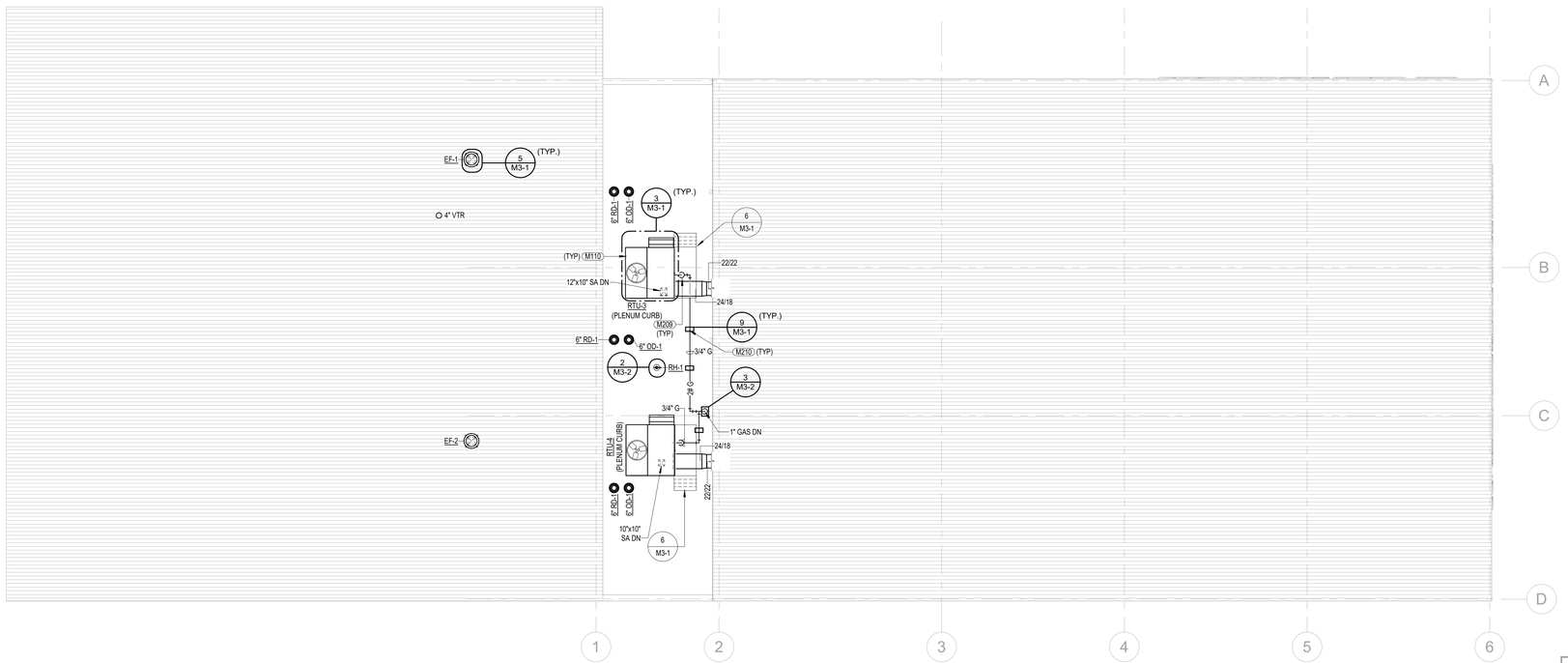
MECHANICAL GENERAL NOTES

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

KEYNOTES

M110	INSTALL ROOFTOP UNIT ON CUSTOM PLENUM CURB PER MANUFACTURERS RECOMMENDATIONS. MAINTAIN MANUFACTURER REQUIRED CLEARANCES. COORDINATE EXACT LOCATION WITH STRUCTURE.
M209	CONNECT NATURAL GAS PIPING TO ROOFTOP UNIT PER MANUFACTURERS RECOMMENDATIONS. SEE REFERENCED DETAIL FOR PIPING ACCESSORIES AND DISTANCE REQUIREMENTS.
M210	SUPPORT NATURAL GAS PIPING ABOVE ROOF WITH PIPE SUPPORTS. COORDINATE WITH ROOFING CONTRACTOR TO MAINTAIN ALL ROOF WARRANTIES. SEE SPECIFICATIONS FOR SPACING REQUIREMENTS.



1 M1-2 ROOF PLAN - MECHANICAL

1/8" = 1'-0" 0' 8' 16'

TRUE NORTH PLAN NORTH

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ROOF PLAN - MECHANICAL

M1-2

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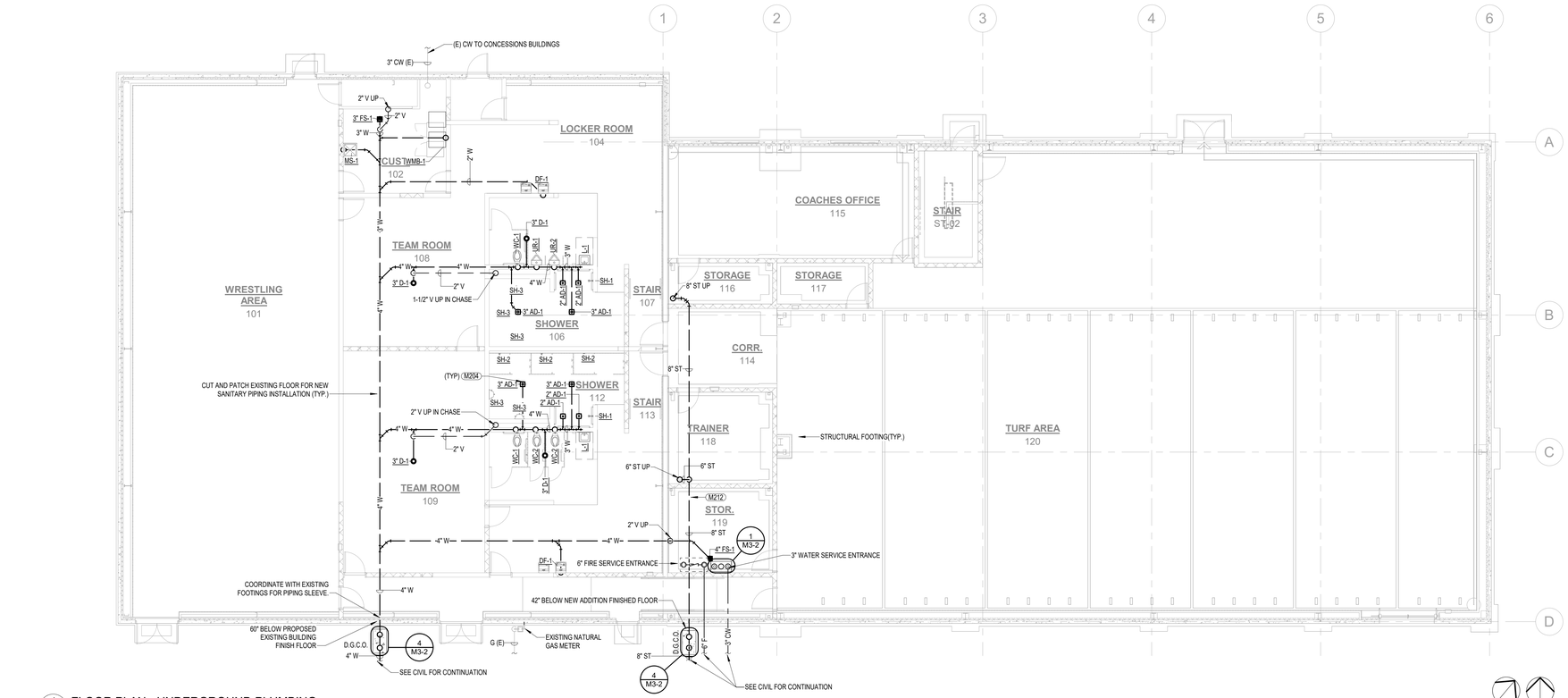
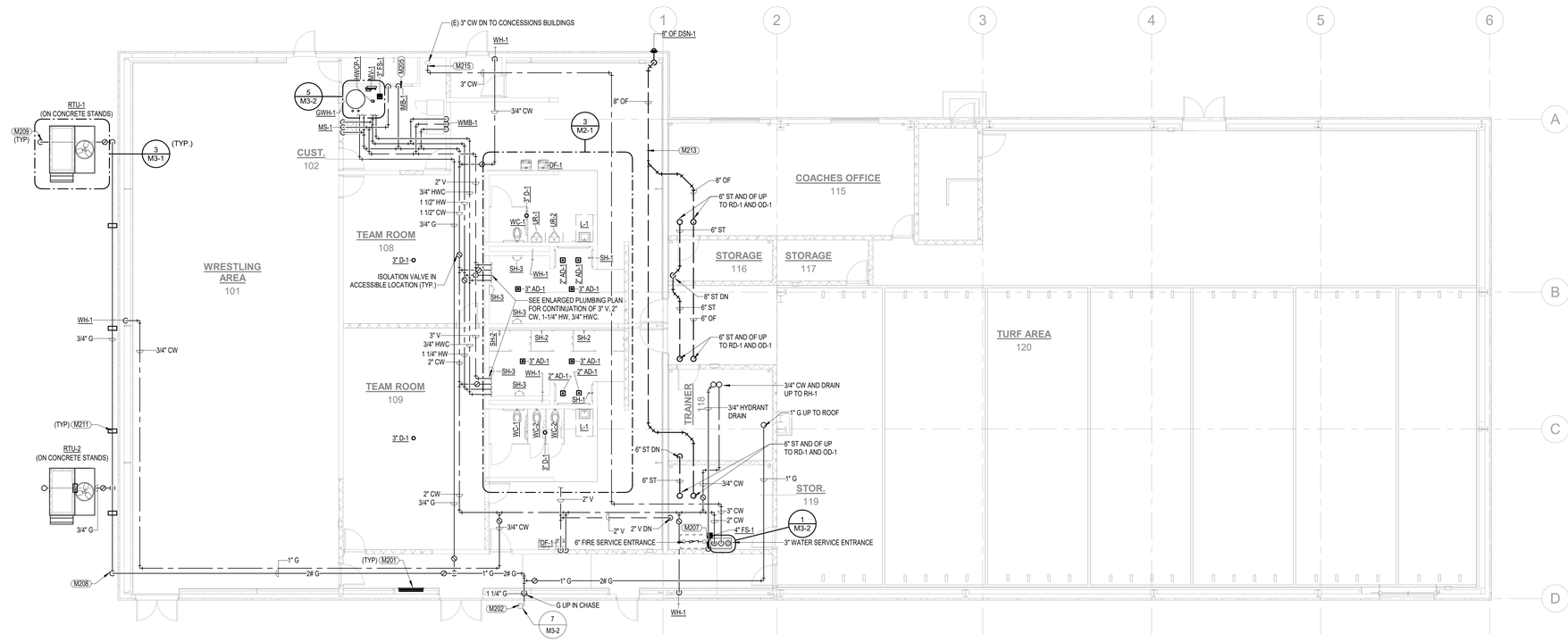
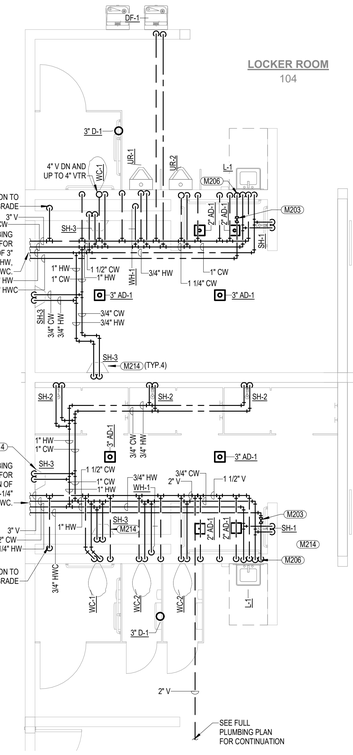


1 FLOOR PLAN - UNDERGROUND PLUMBING
M2-1
1/8" = 1'-0" 0' 8' 16'



2 FLOOR PLAN - PLUMBING
M2-1
1/8" = 1'-0" 0' 8' 16'



3 ENLARGED PLAN - LOCKER ROOM - PLUMBING
M2-1
1/4" = 1'-0" 0' 4' 8'
TRUE NORTH
PLAN NORTH

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MECHANICAL GENERAL NOTES

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KEYNOTES

M201 DO NOT ROUTE PIPING OVER ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.

M202 CONNECT NEW NATURAL GAS PIPING TO EXISTING METER OUTLET AT LOCATION INDICATED. COORDINATE WITH LOCAL UTILITY COMPANY FOR NEW NATURAL GAS LOAD OF BUILDING. APPROXIMATE NEW NATURAL GAS LOAD OF BUILDING = 1,091 MBH. FIELD VERIFY EXACT SIZE, LOCATION AND ELEVATION OF EXISTING PIPING PRIOR TO CONNECTION. TRANSITION, EXTEND AND OFFSET NEW PIPING AS REQUIRED TO MAKE CONNECTION AND AVOID CONFLICTS.

M203 PROVIDE 1.5 GPM HOT WATER CIRCULATION BALANCE VALVE AT ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL WHERE REQUIRED IF ABOVE INACCESSIBLE CEILING.

M204 PROVIDE NEW DRAIN AT SAME LOCATION OF PREVIOUS DRAIN. TRANSITION, EXTEND AND OFFSET NEW PIPING AS REQUIRED TO MAKE CONNECTION AND AVOID CONFLICTS.

M205 ROUTE 1/2" CW DOWN IN WALL TO IMB-1 FOR ICE MACHINE. VERIFY EXACT LOCATION WITH ARCHITECT AND OWNER. PROVIDE BACKFLOW PREVENTER AS REQUIRED BY CODE. ROUTE 3/8" CW FROM OB-1 OUTLET TO INLET OF ICE MACHINE WATER CONNECTION. ROUTE 1" COPPER DRAIN PIPE FROM ICE MACHINE TO NEARBY FLOOR SINK. MAINTAIN CODE REQUIRED AIR GAP.

M206 HOT WATER CIRCULATION CONNECTION SHALL BE CONNECTED AS CLOSE TO THE FIXTURE AS POSSIBLE.

M207 ROUTE ROOF HYDRANT DRAIN PIPING DOWN TIGHT TO WALL AND DISCHARGE TO NEAREST FLOOR SINK PER LOCAL PLUMBING CODE. MAINTAIN CODE REQUIRED AIR GAP.

M208 SECURE NATURAL GAS PIPING TIGHT DOWN EXTERIOR WALL.

M209 CONNECT NATURAL GAS PIPING TO ROOFTOP UNIT PER MANUFACTURERS RECOMMENDATIONS. SEE REFERENCED DETAIL FOR PIPING ACCESSORIES AND DISTANCE REQUIREMENTS.

M211 SUPPORT NATURAL GAS PIPING ON WALL WITH UNISTRUT MINIMUM 8' ABOVE GRADE.

M212 SLOPE BELOW GRADE STORM PIPING AT 1/4" PER FOOT TOWARD CIVIL CONNECTION.

M213 SLOPE ABOVE GRADE OVERFLOW PIPING AT 1/4" PER FOOT TOWARD DOWNSPOUT.

M214 PROVIDE NEW SHOWER FIXTURE AT SAME LOCATION OF PREVIOUS. TRANSITION, EXTEND AND OFFSET NEW PIPING AS REQUIRED TO MAKE CONNECTION AND AVOID CONFLICTS.

M215 CONNECT NEW CW PIPING TO EXISTING CW PIPING SERVING HIGH SCHOOL CONCESSIONS BUILDING. PROVIDE A 3/4" ISOLATION VALVE WITH HOSE CONNECTION END AT 18" A.F.F. OF VERTICAL PIPE FOR DRAIN DOWN. VERIFY EXACT SIZE, LOCATION AND ELEVATION OF EXISTING PIPING PRIOR TO CONNECTION. TRANSITION, EXTEND AND OFFSET NEW PIPING AS REQUIRED TO MAKE CONNECTION AND AVOID CONFLICTS.

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FLOOR PLAN - PLUMBING

M2-1

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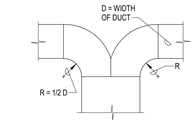
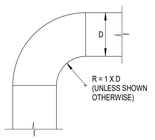
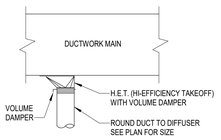


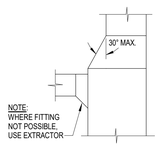
"Y" BRANCH FITTING



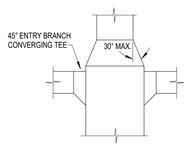
90° ELBOW



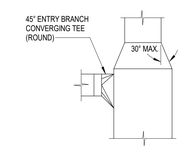
DIFFUSER TAKE-OFF



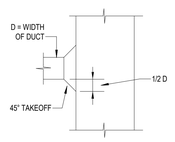
SINGLE BRANCH TAKE-OFF



DOUBLE BRANCH TAKE-OFF

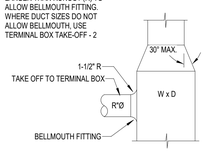


45° ROUND TAKE-OFF



OVERSIZED BRANCH TAKE-OFF

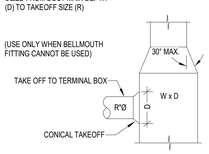
DUCT MAIN DEPTH (D) SHALL BE 4" LARGER THAN RUNOUT (R) TO ALLOW BELLMOUTH FITTING. WHERE DUCT SIZES DO NOT ALLOW BELLMOUTH, USE TERMINAL BOX TAKE-OFF - 2



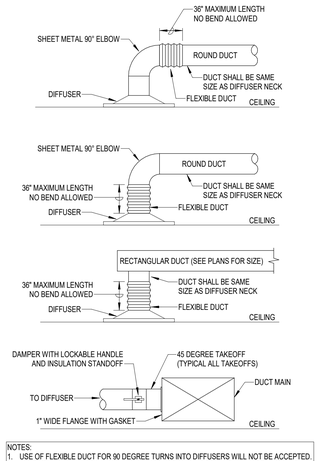
TERMINAL BOX TAKE-OFF -1

PROVIDE CONICAL REDUCER SIZED FROM DUCT MAIN DEPTH (D) TO TAKEOFF SIZE (R)

(USE ONLY WHEN BELLMOUTH FITTING CANNOT BE USED)



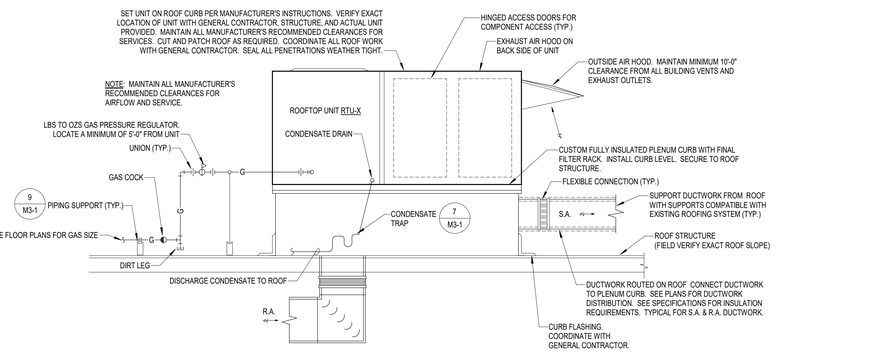
TERMINAL BOX TAKE-OFF - 2

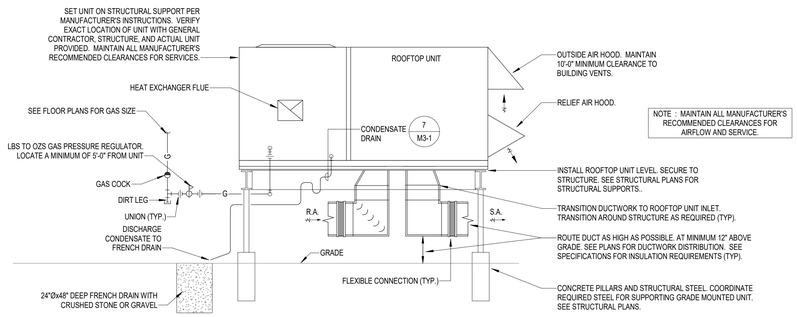


NOTES:
1. USE OF FLEXIBLE DUCT FOR 90 DEGREE TURNS INTO DIFFUSERS WILL NOT BE ACCEPTED.
2. ALL DIFFUSER RUNOUTS SHALL UTILIZE 45 DEGREE TAKEOFFS AS INDICATED. STRAIGHT TAPS WILL NOT BE ACCEPTED.

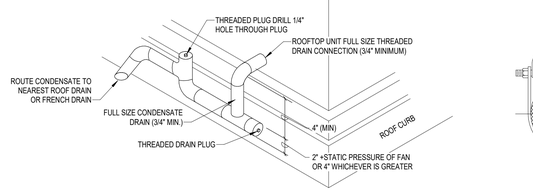
1 M3-1 DUCT FITTING DETAILS
NTS

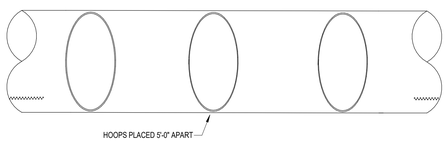
2 M3-1 DIFFUSER CONNECTION DETAILS
NTS



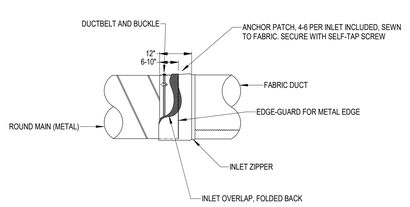


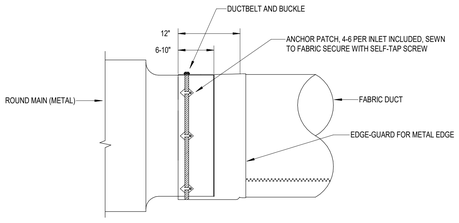
3 M3-1 ROOFTOP UNIT DETAIL
NTS



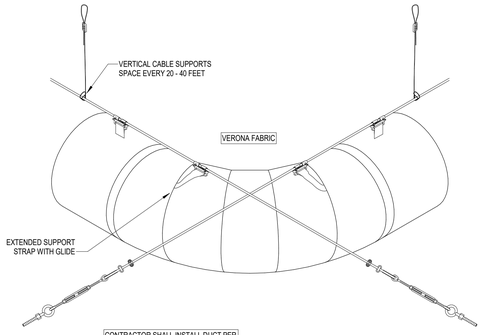


CUT AWAY VIEW OF SKELECORE IHS DETAIL



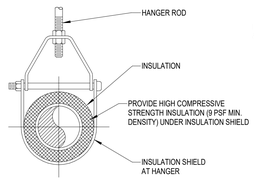


FABRIC DUCT INLET ATTACHMENT DETAIL

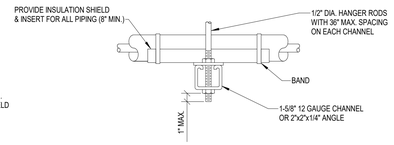


4 M3-1 FABRIC DUCT DETAILS
NTS

7 M3-1 ROOFTOP UNIT CONDENSATE TRAP DETAIL
NTS

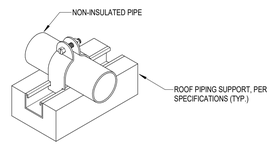


ADJUSTABLE CLEVIS HANGER



SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

8 M3-1 PIPING INSULATION DETAILS
NTS



NOTE:
REFERENCE SPECIFICATIONS FOR PIPE SUPPORT SPACING. DO NOT SECURE PIPE SUPPORT TO ROOF. THE SUPPORT SHALL REST FREELY ON THE ROOF. SIZE EACH SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.

9 M3-1 ROOF PIPE SUPPORT DETAIL
NTS

5 M3-1 ROOF MOUNTED EXHAUST FAN DETAIL
NTS

PLAN VIEW

NOTE : COORDINATE MAINTENANCE PLATFORM WITH NATURAL GAS PIPING, CONDENSATE PIPING, EXTERIOR DUCTWORK, AND ACCESS PANELS OF ROOFTOP UNIT PROVIDED.

SIDE VIEW

6 M3-1 ROOFTOP UNIT MAINTENANCE PLATFORM DETAIL
NTS

MEI PROJECT NO: 25612

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#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BULIDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

MECHANICAL DETAILS

M3-1

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

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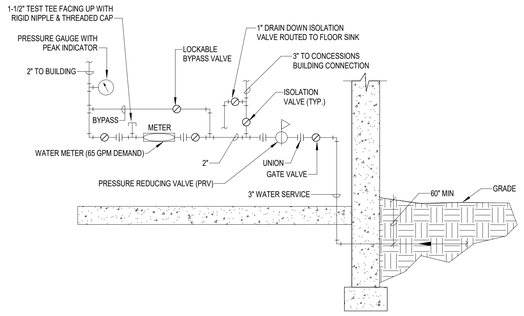
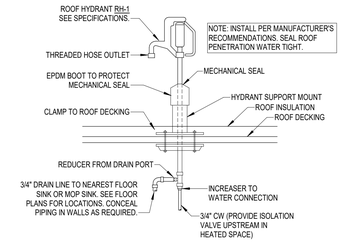
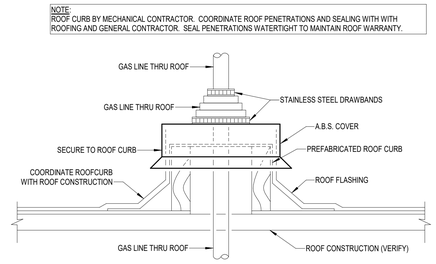


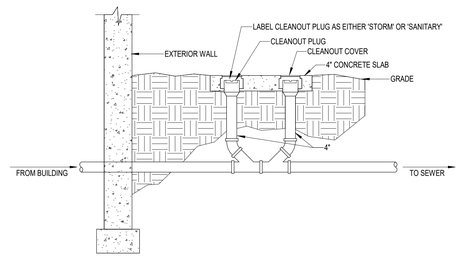
1 M3-2 DOMESTIC WATER SERVICE ENTRANCE DETAIL
NTS



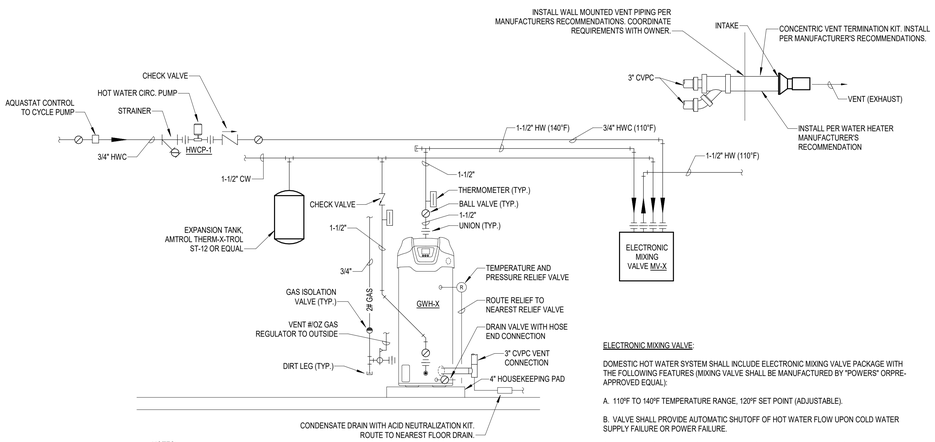
2 M3-2 ROOF HYDRANT DETAIL
NTS



3 M3-2 GAS PIPING ROOF PENETRATION DETAIL
NTS



4 M3-2 DOUBLE GRADE CLEANOUT DETAIL
NTS



NOTES:

1. INSTALL GAS WATER HEATERS PER MANUFACTURER'S RECOMMENDATIONS AND ALL LOCAL CODES. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AND CODE REQUIRED CLEARANCES.

2. PROVIDE COLD WATER AND HOT WATER MANIFOLD TO ALLOW EQUAL FLOW THROUGH EACH WATER HEATER. ALL COLD WATER AND HOT WATER PIPING ASSOCIATED WITH MANIFOLD SHALL BE SYMMETRICAL. INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS.

ELECTRONIC MIXING VALVE:

DOMESTIC HOT WATER SYSTEM SHALL INCLUDE ELECTRONIC MIXING VALVE PACKAGE WITH THE FOLLOWING FEATURES (MIXING VALVE SHALL BE MANUFACTURED BY "POWERS" ORPRE-APPROVED EQUAL):

A. 110°F TO 140°F TEMPERATURE RANGE, 120°F SET POINT (ADJUSTABLE).

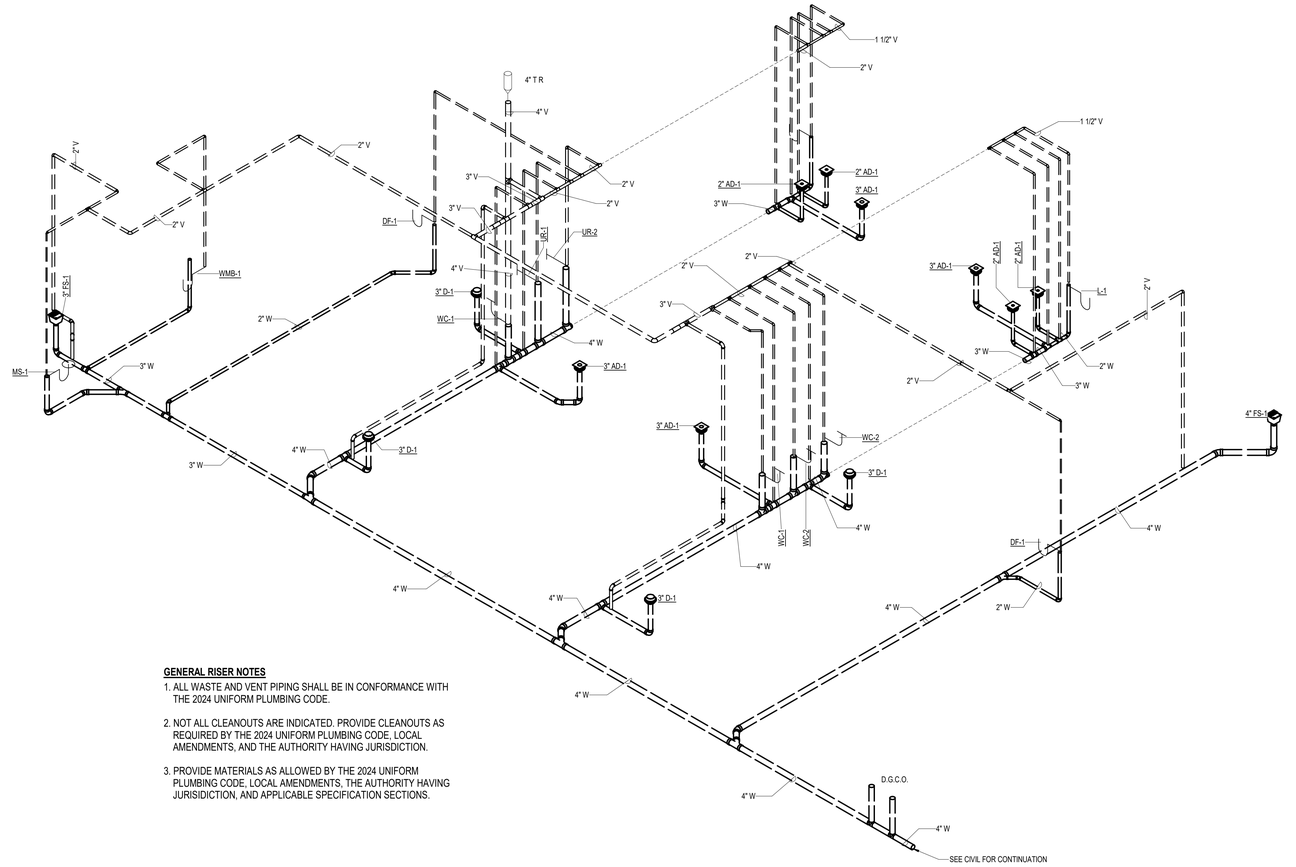
B. VALVE SHALL PROVIDE AUTOMATIC SHUTOFF OF HOT WATER FLOW UPON COLD WATER SUPPLY FAILURE OR POWER FAILURE.

C. MINIMUM FLOW RATE 3.0 GPM, MAXIMUM FLOW RATE 55 GPM AT 10 PSIG MAXIMUM PRESSURE DROP.

D. PROVIDE 1-1/2" CW, 1-1/2" 140°F HW, 1-1/2" TEMPERED WATER TO MIXING VALVE FOR DOMESTIC HOT WATER.

INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CONFIGURE CIRCULATING HOT WATER PIPING AND PUMP WITH MIXING VALVE PER MANUFACTURER'S ECOMMENDATIONS. PROVIDE WITH CABINET ASSEMBLY FOR WALL HUNG APPLICATION.

5 M3-2 GAS WATER HEATER DETAIL
NTS



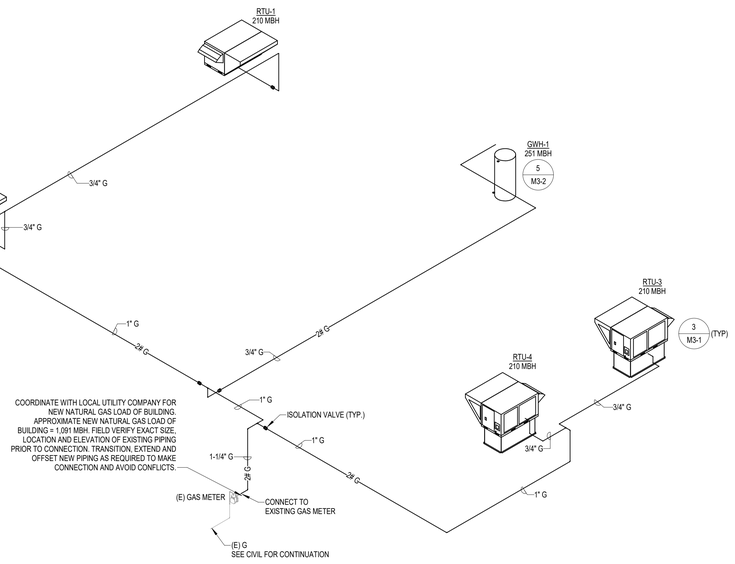
GENERAL RISER NOTES

1. ALL WASTE AND VENT PIPING SHALL BE IN CONFORMANCE WITH THE 2024 UNIFORM PLUMBING CODE.

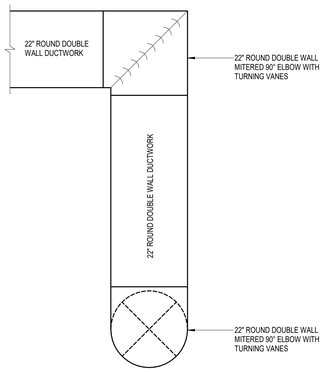
2. NOT ALL CLEANOUTS ARE INDICATED. PROVIDE CLEANOUTS AS REQUIRED BY THE 2024 UNIFORM PLUMBING CODE, LOCAL AMENDMENTS, AND THE AUTHORITY HAVING JURISDICTION.

3. PROVIDE MATERIALS AS ALLOWED BY THE 2024 UNIFORM PLUMBING CODE, LOCAL AMENDMENTS, THE AUTHORITY HAVING JURISIDICTION, AND APPLICABLE SPECIFICATION SECTIONS.

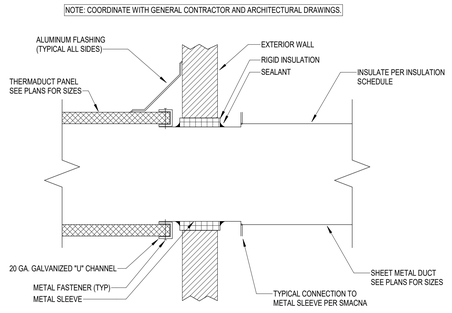
6 M3-2 WASTE AND VENT RISER DIAGRAM



7 M3-2 GAS RISER DIAGRAM



8 M3-2 TURF AREA SUPPLY AIR DUCT TRANSITION
NTS



9 M3-2 EXTERIOR WALL DUCT PENETRATION DETAIL
NTS

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COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

MECHANICAL DETAILS

M3-2

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

MEI PROJECT NO: 25612

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ROOF-TOP UNIT WITH GAS HEAT SCHEDULE

REMARKS:
1. DOWNFLOW, SINGLE ZONE, VARIABLE AIR VOLUME, ROOFTOP UNIT WITH DX COOLING, MODULATING GAS HEAT, AND HOT GAS REHEAT WITH DEHUMIDIFICATION CONTROLS.
2. PROVIDE WITH CONDENSER COIL HAIL GUARDS IF NOT INTEGRAL TO CONDENSER COIL CONFIGURATION.
3. PROVIDE WITH DIFFERENTIAL ENTHALPY CONTROLLED OUTSIDE AIR ECONOMIZER AND POWERED EXHAUST FANS.
4. PROVIDE WITH 36" FULLY INSULATED CUSTOM PLENUM ROOF CURB WITH VIBRATION ISOLATION RAIL. DIMENSIONS GIVEN ARE FOR UNIT ONLY AND DO NOT INCLUDE CURB HEIGHT. STANDARD UNIT WEIGHT GIVEN; WEIGHT FOR CURB AND UNIT ACCESSORIES NOT INCLUDED. CONTRACTOR SHALL CONFIRM ROOF INSULATION THICKNESS AT FINAL PLACEMENT OF EQUIPMENT. PROVIDE ROOF CURB HEIGHT TO ALLOW A MINIMUM 8" ROOF FLASHING UP TO NAILER (VERIFY REQUIRED FLASHING DIMENSION WITH ROOFING CONTRACTOR). INCREASE INDICATED CURB HEIGHT AS REQUIRED.
5. PROVIDE WITH PACKAGED BACnet MSTP INTERFACE. INTEGRATED SOLID-STATE CONTROLS WITH BLOWER AND LIMIT CONTROLS. SEE SEQUENCE OF OPERATIONS FOR MINIMUM POINTS TO BE AVAILABLE TO BUILDING DDC SYSTEM.
6. SMOKE DETECTORS AND UNIT SHUT DOWN UPON SMOKE DETECTION BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS.
7. PROVIDE WITH SINGLE POINT CONNECTION AND FACTORY INSTALLED DISCONNECT.
8. PROVIDE WITH FIELD POWERED GFI CONVENIENCE RECEPTACLE.
9. PROVIDE WITH 2" MERV 8 FILTERS.
10. PROVIDE WITH VARIABLE CAPACITY SCROLL COMPRESSOR.
11. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER WITH 10-YEAR MINIMUM WARRANTY.
12. PROVIDE WITH STAINLESS STEEL CONDENSATE DRAIN PAN.
13. UNIT SHALL BE ON GRADE ON STRUCTURAL SUPPORTS. REFERENCE AND COORDINATE WITH STRUCTURAL DRAWINGS.
14. PROVIDE WITH 5-YEAR COMPRESSOR WARRANTY.
15. PROVIDE WITH MODULATING HOT GAS REHEAT COIL WITH DEHUMIDIFICATION CONTROLS.
16. PROVIDE WITH CO2 DEMAND CONTROLLED VENTILATION. OA AIRFLOW SHALL MODULATE FROM 400 CFM TO 725 CFM.
17. VERIFY TOTAL STATIC PRESSURE WITH MANUFACTURER'S COMPONENTS. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE FILTER, COOLING COIL, AND OTHER RTU COMPONENTS. OVERALL ROOFTOP UNIT STATIC PRESSURE RATING SHALL ACCOMMODATE PRESSURE DROP VALUES OF A WET COIL, MID-LIFE FILTER, INTERNAL UNIT PRESSURE DROP AND EXTERNAL STATIC PRESSURE INDICATED
18. PROVIDE WITH DIRECT DRIVE ECM CONTROLLED FAN. BRAKE HORSEPOWER SHALL NOT EXCEED 85% OF NOMINAL MOTOR HORSEPOWER.

GENERAL					FILTERS		PHYSICAL SIZE		AIRFLOW (CFM)	SUPPLY FAN (18)				EXHAUST / RETURN FAN (18)				ELECTRICAL (7) (8)			DX COOLING					GAS FIRED HEATING							HOT GAS REHEAT (15)		
PLAN TAG	MANUFACTURER	MODEL	SERVES	CONFIG.	THICK NESS	MIN. EFF.	DIMENSIONS (W x H x L)	WEIGHT (lbs.)	TOTAL SUPPLY AIRFLOW	MINIMUM OA	AIRFLOW (CFM)	E.S.P. (in-wg) (17)	BLOWER TYPE	BHP / HP	AIRFLOW (CFM)	E.S.P. (in-wg) (17)	BLOWER TYPE	BHP / HP	VOLTAGE / PHASE	MCA	MOCP	CAPACITY (BTU/h)			AMBIENT AIR TEMP DB (°F)	MIN. NET EER	GAS LOAD					EFF.	LAT (°F) DB / WB	CAPACITY (BTU/h)	REMARKS
																						NOM. TONS	TOTAL	SENSIBLE			FUEL	HIGH (BTU/h) INPUT	HIGH (BTU/h) OUTPUT	LOW (BTU/h) INPUT	LOW (BTU/h) OUTPUT				
RTU-1	AAON	RNA-010-A	SEE PLANS	(1-3)(10-12)	2"	MERV 8 (9)	79" x 44" x 82"	1,500	3,000	725	3,000	0.75	DIRECT	2.90 / 4.00	3,000	0.50	DIRECT	1.80 / 4.00	208 V / 3	60.0 A	80.0 A	10	110,000	79,500	95.0	11.6	NATURAL GAS	210,000	170,100	70,000	56,700	81.0%	70.0 / 60.0	62,000	(5)(6)(13)(14)(16)
RTU-2	AAON	RNA-010-A	SEE PLANS	(1-3)(10-12)	2"	MERV 8 (9)	79" x 44" x 82"	1,500	3,000	400	3,000	0.75	DIRECT	2.90 / 4.00	3,000	0.50	DIRECT	1.80 / 4.00	208 V / 3	60.0 A	80.0 A	10	110,000	79,500	95.0	11.6	NATURAL GAS	210,000	170,100	70,000	56,700	81.0%	70.0 / 60.0	62,000	(5)(6)(13)(14)
RTU-3	AAON	RNA-010-A	SEE PLANS	(1-3)(10-12)	2"	MERV 8 (9)	79" x 44" x 82"	1,500	3,000	725	3,000	0.75	DIRECT	2.90 / 4.00	3,000	0.50	DIRECT	1.80 / 4.00	208 V / 3	60.0 A	80.0 A	10	110,000	79,500	95.0	11.6	NATURAL GAS	210,000	170,100	70,000	56,700	81.0%	70.0 / 60.0	62,000	(4)(5)(6)(14)(16)
RTU-4	AAON	RNA-010-A	SEE PLANS	(1-3)(10-12)	2"	MERV 8 (9)	79" x 44" x 82"	1,500	3,000	725	3,000	0.75	DIRECT	2.90 / 4.00	3,000	0.50	DIRECT	1.80 / 4.00	208 V / 3	60.0 A	80.0 A	10	110,000	79,500	95.0	11.6	NATURAL GAS	210,000	170,100	70,000	56,700	81.0%	70.0 / 60.0	62,000	(4)(5)(6)(14)(16)

FAN SCHEDULE

REMARKS:
1. ROOF MOUNTED, DIRECT DRIVE, CENTRIFUGAL DOWNBLAST EXHAUST FAN.
2. PROVIDE WITH BIRDSCREEN, FAN-MOUNTED SPEED CONTROLLER, MOTORIZED DAMPER (SAME VOLTAGE AS FAN MOTOR & INTERLOCKED WITH FAN), AND ELECTRICAL DISCONNECT.
3. PROVIDE WITH 14" INSULATED ROOF CURB COMPATIBLE WITH ROOFING SYSTEM. CONTRACTOR SHALL CONFIRM ROOF INSULATION THICKNESS AT FINAL PLACEMENT OF EQUIPMENT. PROVIDE ROOF CURB HEIGHT TO ALLOW A MINIMUM 8" ROOF FLASHING UP TO NAILER (VERIFY REQUIRED FLASHING DIMENSION WITH ROOFING CONTRACTOR). INCREASE INDICATED CURB HEIGHT AS REQUIRED.
4. CONTROL THRU BAS. FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. SEE SEQUENCE OF OPERATIONS.
5. DIRECT DRIVE WITH EC MOTOR.

GENERAL				PHYSICAL SIZE		FAN				MOTOR						REMARKS
PLAN TAG	MANUFACTURER	MODEL	SERVES	WEIGHT (lbs)	DIMENSIONS (D x W x H)	AIRFLOW (CFM)	E.S.P. (in-wg)	MAXIMUM RPM	MAXIMUM SONES	BHP / HP	RPM	VOLTAGE / PHASE	TYPE	CONTROL DEVICE		
EF-1	GREENHECK	G-100-VG	LOCKER ROOMS	22	24" x 24" x 24"	750	0.50	1284	6	0.12 / 0.25	1725	120 V / 1	ECM	(4)		(1) (2) (3) (4) (5)
EF-2	GREENHECK	G-100-VG	LOCKER ROOMS	22	24" x 24" x 24"	750	0.50	1284	6	0.12 / 0.25	1725	120 V / 1	ECM	(4)		(1) (2) (3) (4) (5)

DOMESTIC WATER PUMP SCHEDULE

REMARKS:
1. LEAD FREE / ALL BRONZE CONSTRUCTION FOR POTABLE WATER APPLICATIONS.
2. SEE WATER HEATER DETAIL FOR PIPING SPECIALTIES.
3. PUMP SHALL BE SCHEDULED THROUGH THE BUILDING AUTOMATION SYSTEM. WHEN ENABLED, THE PUMP SHALL CYCLE THROUGH THE USE OF AN AQUASTAT.

GENERAL				PUMP - FLOW			PUMP - SIZE			MOTOR			ELECTRICAL	REMARKS
PLAN TAG	MANUFACTURER	MODEL	SERVES	GPM	HEAD (FT) TOTAL	HEAD (FT) SHUTOFF	CONNECTIONS SUCT.	CONNECTIONS DISCH.	RPM	BHP / HP	RPM	TYPE	VOLTAGE / PHASE	
HWCP-1	BELL & GOSSETT	NBF-10	HW CIRC	3	10.0	15.0	3/4"	3/4"	2800	0.07 / 0.07	2800	O.D.P.	120 V / 1	(2) (3)

DUCTWORK INSULATION SCHEDULE (1) (2)

SERVICE	DUCTWORK	APPLICATION	INSULATION TYPE	INSULATION THICKNESS	MINIMUM R-VALUE	VAPOR RETARDER	REMARKS
SUPPLY AIR	RECTANGULAR	CONCEALED ABOVE CEILING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
RETURN AIR	RECTANGULAR	CONCEALED ABOVE CEILING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
RETURN / XFR AIR	RECTANGULAR	PLENUM BOOTS & TRANSFER DUCTS	DUCT LINER	1"	-	NO	-
SUPPLY AIR	ROUND	EXPOSED - SPIRAL	DOUBLE WALL	1"	R-3	NO	(3) (5)
RETURN AIR	ROUND	EXPOSED - SPIRAL	NONE	-	-	NO	(5)
SUPPLY AIR	RECTANGULAR	EXPOSED	DUCT LINER	1-1/2"	R-6	YES	(5)
RETURN AIR	RECTANGULAR	EXPOSED	NONE	-	-	NO	(5)
SUPPLY AIR	RECTANGULAR	EXPOSED - EXTERIOR	(4)	3"	R-12+R-8.6	-	-
RETURN AIR	RECTANGULAR	EXPOSED - EXTERIOR	(4)	3"	R-12+R-8.6	-	-
EXHAUST AIR	FROM LOUVER / HOOD	BACK 36" INTO BUILDING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-

REMARKS:
1. INSULATION TYPE AND THICKNESS SHALL MEET ALL REQUIREMENTS OF 2018 IECC / ASHRAE 90.1-2016.
2. SEE SPECIFICATION SECTION 23 07 00 FOR ADDITIONAL INFORMATION.
3. INNER DUCT PERFORATED SHEET METAL WITH 1" INTERSTITIAL INSULATION AND OUTER DUCT SPIRAL DUCT MATCHING DUCT PRESSURE CLASS.
4. PRE-INSULATED DUCTWORK. SEE SPECIFICATION SECTION 23 31 14 FOR ADDITIONAL INFORMATION.
5. PROVIDE EXPOSED DUCTWORK WITH PAINT GRIP WHERE APPLICABLE. COORDINATE FINAL PAINT FINISH WITH ARCHITECT.

PIPING INSULATION SCHEDULE (1) (2) (3)

SERVICE	PIPING SIZES	INSULATION TYPE	INSULATION THICKNESS	VAPOR RETARDER	REMARKS
CONDENSATE DRAIN (COPPER)	ALL	MINERAL FIBER	1/2"	YES	-
DOMESTIC COLD WATER (CW)	ALL	MINERAL FIBER	1/2"	YES	-
DOMESTIC HOT WATER (WITH RECIRC.)	1/2" TO 2"	MINERAL FIBER	1"	NO	-
SANITARY WASTE	ALL	NONE	-	-	-
ROOF DRAIN BODIES (RD & OFD)	ALL	FLEXIBLE ELASTOMERIC	1/2"	YES	-
PLUMBING VENTS (24" BELOW ROOF)	ALL	MINERAL FIBER	1/2"	YES	-
STORM DRAIN (ST & OF)	ALL	MINERAL FIBER	1"	YES	-

REMARKS:
1. INSULATION TYPE AND THICKNESS SHALL MEET ALL REQUIREMENTS OF 2018 IECC / ASHRAE 90.1-2016.
2. SEE SPECIFICATION SECTIONS 22 07 20 & 23 07 20 FOR ADDITIONAL INFORMATION.
3. SEE PIPING INSULATION DETAIL.

DIFFUSER REGISTER AND GRILLE SCHEDULE (1) (2)

REMARKS:
1. VERIFY ALL FRAMES, FINISHES, AND ACCESSORIES WITH CEILING CONSTRUCTION PRIOR TO FURNISHING MATERIAL.
   a. VERIFY QUANTITIES WITH PLANS.
   b. SEE PLANS FOR NECK SIZES.
2. NOISE CRITERIA (NC) SHALL BE LESS THAN 25 ON DIFFUSERS, REGISTERS AND GRILLES LOCATED IN OCCUPIED SPACES.

PLAN TAG	MANUFACTURER	MODEL	FUNCTION	DESCRIPTION	DEFLECTION	AIR P.D. (IN WG)	MATERIAL	FINISH	NECK SIZE	FACE SIZE	REMARKS
D-1	PRICE	ASPD	SUPPLY	PLAQUE DIFFUSER	360°	0.10"	ALUMINUM	WHITE	SEE PLANS	24"x24"	(1) (2)
E-1	PRICE	PDDR	EXHAUST	RECT NECK PERFORATED FACE	PERFORATED	0.10"	ALUMINUM	WHITE	SEE PLANS	24"x24"	(1) (2)
G-1	PRICE	PDDR	RETURN / XFR	RECT NECK PERFORATED FACE	PERFORATED	0.10"	ALUMINUM	WHITE	22"x22"	24"x24"	(1) (2)
G-2	PRICE	PDDR	RETURN / XFR	RECT NECK PERFORATED FACE	PERFORATED	0.10"	ALUMINUM	WHITE	SEE PLANS	12"x24"	(1) (2)
G-3	PRICE	530-L	RETURN	RECT SINGLE DEFLECTION GRILLE	SINGLE 3/4"	0.10"	ALUMINUM	WHITE	SEE PLANS	NECK SIZE + 1-3/4"	(1) (2)
G-4	PRICE	PDDR	RETURN / XFR	RECT NECK PERFORATED FACE	PERFORATED	0.10"	ALUMINUM	WHITE	SEE PLANS	24"x24"	(1) (2)
R-1	PRICE	520-L	SUPPLY	RECT DOUBLE DEFLECTION REGISTER	DOUBLE 3/4"	0.10"	ALUMINUM	WHITE	SEE PLANS	NECK SIZE + 1-3/4"	(1) (2)

GAS WATER HEATER SCHEDULE

REMARKS:
1. GAS-FIRED, 96% EXTRA HIGH EFFICIENCY, DIRECT VENT, SEALED COMBUSTION WATER HEATER WITH GLASS LINED STORAGE TANK.
2. PROVIDE WITH PRESSURE / TEMPERATURE RELIEF VALVE.
3. PROVIDE PVC EXHAUST AND INTAKE - SIZE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE CONCENTRIC VENT VERTICAL TERMINATION.
4. COORDINATE ELECTRICAL REQUIREMENTS WITH SUPPLIED UNIT AND WITH ELECTRICAL CONTRACTOR.

GENERAL				TANK		DOMESTIC HOT WATER			ELECTRICAL	GAS-FIRED HEATING					REMARKS
PLAN TAG	MANUFACTURER	MODEL	SERVES	STORAGE CAPACITY	DIMENSIONS (DIA. Ø x H)	RECOVERY	DISCHARGE TEMP.	TEMP. RISE	VOLTAGE / PHASE	GAS LOAD (BTU/h) FUEL	INPUT	OUTPUT	# OF STAGES	EFF.	
GWH-1	A.O. SMITH	BTH-251	DOM. HW	119	33"Ø x 77"	290 GPH	140 °F	100 °F	120 V / 1	NATURAL GAS	251,000	241,000	MODULATING	96%	(1) (2) (3) (4) (5)

MIXING VALVE SCHEDULE

REMARKS:
1. PRE-PIPED DIGITAL WATER TEMPERING WITH RECIRCULATION VALVE &MANUAL BYPASS PREPIPED.
2. LEAD FREE SUITABLE FOR POTABLE WATER USE.
3. PROVIDE BACnet PROTOCOL CONTROLLER TO INTERFACE WITH BUILDING AUTOMATION SYSTEM FOR MONITORING AND CONTROL OF ELECTRONIC MIXING VALVE.
4. MIXING VALVE TO HAVE 110°F TO 140°F TEMPERATURE RANGE, 120°F SET POINT (ADJUSTABLE).
5. VALVE SHALL PROVIDE AUTOMATIC SHUTOFF OF HOT WATER FLOW UPON COLD WATER SUPPLY FAILURE OR POWER FAILURE.
6. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CONFIGURE CIRCULATING HOT WATER PIPING AND PUMP WITH MIXING VALVE PER MANUFACTURER'S RECOMMENDATIONS
7. SEE DOMESTIC WATER PUMP SCHEDULE FOR HOT WATER CIRCULATION PUMP PERFORMANCE REQUIREMENTS.

GENERAL					CONNECTIONS		FLOW RATE (GPM)	GPM DROP @		TEMPERATURES (4)				VOLTAGE / PHASE	REMARKS
PLAN TAG	MANUFACTURER	MODEL	SERVES	CONFIGURATION	CW IN	HW OUT		5 PSI	10 PSI	CW IN	HW IN	HW OUT			
MV-1	Powers Controls	IS2S075	DOMESTIC HOT WATER	(1)	1.5"	1.5"	25 GPM	33	53	40 °F	140 °F	110 °F		120 V / 1	(1-7)

NATURAL GAS USAGE TABLE

PLAN TAG	GAS LOAD (BTU/h)
GWH-1	251,000
RTU-1	210,000
RTU-2	210,000
RTU-3	210,000
RTU-4	210,000
Grand total: 5	1,091,000

MEI PROJECT NO: 25612

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do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at 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.

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#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BULIDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

MECHANICAL SCHEDULES

M4-1

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

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PLUMBING FIXTURE SCHEDULE (1) (2)

REMARKS:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING STOPS, FITTINGS AND ALL OTHER SPECIALTIES.
2. PICTURES OF FIXTURES MAY NOT INDICATE ACTUAL FIXTURE SPECIFIED. PICTURES ARE GRAPHICAL IN NATURE. SEE DESCRIPTION FOR ACTUAL FIXTURE AND MODEL.

TAG	FIXTURE (2)		FAUCET-VALVE-ACCESSORY (2)		DESCRIPTION	CONNECTIONS				REMARKS
	MODEL	IMAGE	MODEL	IMAGE		CW	HW	V	W	
WC-1	KOHLER: K-96057 "HIGHCLIFF"		SLOAN: 111-1.6 SFSM		DESCRIPTION: ELONGATED, SIPHON JET BOWL, FLOOR MOUNTED, FLOOR OUTLET WATER CLOSET WITH FLUSHOMETER FEATURING TRUE MECHANICAL OVERRIDE. ADA COMPLIANT: YES COLOR: WHITE FLUSHOMETER: TOP SPUD. 1.6 GALLONS PER FLUSH. FLUSHOMETER FINISH: POLISHED CHROME. FLUSHOMETER OPERATION: BATTERY WITH TRUE MANUAL OVERRIDE. SEAT: WHITE, ELONGATED, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HINGE. RIM HEIGHT: 17"	1"	-	2"	4"	FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 1,000 GRAMS PER FLUSH.
WC-2	KOHLER: K-96053 "WELLCOMME"		SLOAN: 111-1.6 SFSM		DESCRIPTION: ELONGATED, SIPHON JET BOWL, FLOOR MOUNTED, FLOOR OUTLET WATER CLOSET WITH FLUSHOMETER FEATURING TRUE MECHANICAL OVERRIDE. ADA COMPLIANT: NOT REQUIRED COLOR: WHITE FLUSHOMETER: TOP SPUD. 1.6 GALLONS PER FLUSH. FLUSHOMETER FINISH: POLISHED CHROME. FLUSHOMETER OPERATION: BATTERY WITH TRUE MANUAL OVERRIDE. SEAT: WHITE, ELONGATED, OPEN FRONT WITHOUT COVER, SEAT WITH CHECK HINGE. RIM HEIGHT: 15"	1"	-	2"	4"	FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 1,000 GRAMS PER FLUSH.
UR-1	KOHLER: 4991-ET "BARDON"		SLOAN: 186 SFSM-0.5 "REGAL"		DESCRIPTION: WASHDOWN, WALL HANGING, WALL OUTLET WITH URINAL FLUSHOMETER FEATURING TRUE MECHANICAL OVERRIDE. ADA COMPLIANT: YES COLOR: WHITE FLUSHOMETER: TOP SPUD. 0.5 GALLONS PER FLUSH. FLUSHOMETER FINISH: POLISHED CHROME. FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM WITH TRUE MECHANICAL OVERRIDE. RIM HEIGHT: 17"	3/4"	-	1-1/2"	2"	
UR-2	KOHLER: 4991-ET "BARDON"		SLOAN: 186 SFSM-0.5 "REGAL"		DESCRIPTION: WASHDOWN, WALL HANGING, WALL OUTLET WITH URINAL FLUSHOMETER FEATURING TRUE MECHANICAL OVERRIDE. ADA COMPLIANT: NOT REQUIRED COLOR: WHITE FLUSHOMETER: TOP SPUD. 0.5 GALLONS PER FLUSH. FLUSHOMETER FINISH: POLISHED CHROME. FLUSHOMETER OPERATION: BATTERY POWERED, SENSOR ACTUATION, AUTOMATIC FLUSH SYSTEM WITH TRUE MECHANICAL OVERRIDE. RIM HEIGHT: 24"	3/4"	-	1-1/2"	2"	
L-1	KOHLER: K-2005 "KINGSTON"		SLOAN: OPTIMA EBF-85		DESCRIPTION: WALL HANGING LAVATORY WITH BATTERY POWERED SENSOR FAUCET. FAUCET HAS SELF-ADAPTIVE RANGE ADJUSTMENT. ADA COMPLIANT: YES. COLOR: WHITE FIXTURE DIMENSIONS: 21" x 18" CONSTRUCTION: FAUCET INLET SPACING TO MATCH LAVATORY OPENINGS. FAUCET VALVE OPERATION: BATTERY POWERED, SENSOR OPERATED. FAUCET ACCESSORIES: BELOW DECK THERMOSTATIC MIXING VALVE. SPOUT: INTEGRAL WITH BODY, VANDAL RESISTANT AERATOR. 1/2-GPM FLOW. DRAIN: GRID STRAINER ADA INSULATION KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FROM FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF STICKING FASTENING SYSTEM.	1/2"	1/2"	1-1/4"	1-1/4"	
MS-1	WILLIAMS: SB-900 "SERVICEPTOR"		KOHLER: K-8377160-4A "TRITON BOWE"		FLOOR MOUNTED MOP SINK WITH WALL MOUNTED FAUCET. ADA COMPLIANT: NOT REQUIRED FIXTURE DIMENSIONS: 24" x 24" X 12" HIGH FIXTURE CONSTRUCTION: TERRAZZO. RIM GUARD: STAINLESS STEEL. FAUCET: ROUGH CHROME, WIDESPREAD BAST BRASS WITH SUPPLIES 8" ON CENTER. FAUCET MOUNTING: WALL CENTERED ON FIXTURE. FAUCET HANDLE: DUAL LEVER. FAUCET SPOUT: INTEGRAL VACUUM BREAKER, PAIL HOOK, AND HOSE THREAD OUTLET. WALL BRACE: ASSEMBLY WITH WALL BRACKET AND SUPPORT TO FAUCET SPOUT. HOSE HOLDER: E.L. MUSTEE & SONS 65.700; HEAVY DUTY 5/8" DIA. 31" RUBBER HOSE AND SPRING LOADED MOLDED RUBBER HOSE HOLDER ON STAINLESS STEEL WALL PLATE. MOP HANGER: E.L. MUSTEE & SONS 65.600; THREE SPRING-LOADED RUBBER MOP HOLDERS ATTACHED TO STAINLESS STEEL WALL PLATE. WALL GUARD: E.L. MUSTEE & SONS 67.2424; 12" HIGH, 20 GAUGE, #304 STAINLESS STEEL WALL GUARD.	3/4"	3/4"	1-1/2"	3"	
SH-1	ACORN SHOWER-WARE: 450BADA SPEX				DESCRIPTION: SURFACE MOUNTED ADA SHOWER. SEE ARCHITECTURAL DRAWINGS FOR BASE AND WALLS. ADA COMPLIANT: YES DRAIN DESCRIPTION: SEE PLANS FOR AREA DRAIN LOCATIONS. MIXING VALVE WITH SHOWER HANDLE: TEMPERATURE-PRESSURE BALANCING MIXING VALVE WITH PATENTED LIGATURE RESISTANT TRI-LEVER HANDLE. SHOWER HEAD: HANDHELD SHOWER WITH 60" HOSE. OPTIONS: - SUPPLY FROM WALL - SURFACE MOUNTED SOAP DISH - TWO WALL GRAB BAR - STANDARD SEAT	3/4"	3/4"	1-1/2"	1-1/2"	
SH-2	ACORN SHOWER-WARE: 450B SPEX				DESCRIPTION: SURFACE MOUNTED SHOWER. SEE ARCHITECTURAL DRAWINGS FOR BASE AND WALLS. ADA COMPLIANT: NOT REQUIRED DRAIN DESCRIPTION: SEE PLANS FOR AREA DRAIN LOCATIONS. MIXING VALVE WITH SHOWER HANDLE: TEMPERATURE-PRESSURE BALANCING MIXING VALVE WITH PATENTED LIGATURE RESISTANT TRI-LEVER HANDLE. SHOWER HEAD: MULTI-STREAM SHOWERHEAD. OPTIONS: - SUPPLY FROM WALL - SURFACE MOUNTED SOAP DISH	3/4"	3/4"	1-1/2"	1-1/2"	
SH-3	BRADLEY: WS-3W				DESCRIPTION: SURFACE MOUNTED 3 STATION SHOWER. SEE ARCHITECTURAL DRAWINGS FOR BASE AND WALLS. ADA COMPLIANT: NOT REQUIRED DRAIN DESCRIPTION: SEE PLANS FOR AREA DRAIN LOCATIONS. MIXING VALVE WITH SHOWER HANDLE: THERMOSTATIC MIXING VALVE WITH LEVER HANDLE. SHOWER HEAD: STANDARD SHOWERHEAD. OPTIONS: - SUPPLY FROM WALL - SURFACE MOUNTED SOAP DISH	3/4"	3/4"	1-1/2"	1-1/2"	
DF-1	ELKAY: LZVRSM-EDFPVM 2177D1LK		- , -		DESCRIPTION: HEAVY DUTY BI-LEVEL FILTERED NON-REFRIGERATED DRINKING FOUNTAIN WITH BOTTLE FILLER. ADA COMPLIANT: YES. NUMBER OF BUBBLERS: TWO + BOTTLE FILLER. FIXTURE CABINET MATERIAL: VANDAL RESISTANT STAINLESS STEEL. ACTIVATION: MECHANICAL FRONT BUBBLER BUTTON. ELECTRICAL: NOT REQUIRED.	1/2"	-	1-1/4"	1-1/4"	

PLUMBING SPECIALTIES SCHEDULE (1) (2)

REMARKS:
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2. PICTURES OF FIXTURES MAY NOT INDICATE ACTUAL FIXTURE SPECIFIED. PICTURES ARE GRAPHICAL IN NATURE. SEE DESCRIPTION FOR ACTUAL FIXTURE AND MODEL.

TAG	FIXTURE (2)		DESCRIPTION	CONNECTIONS				REMARKS
	MODEL	IMAGE		CW	HW	V	W	
AD-1	J.R. SMITH:2005		FLOOR DRAIN WITH CAST IRON BODY, FLASHING COLLAR, 8" SQUARE ADJUSTABLE NICKEL BRONZE GRATE. INSTALL FLOOR DRAIN PARALLEL TO TILE PATTERN. COORDINATE WITH ARCHITECTAL PLANS AND GENERAL CONTRACTOR.	-	-	1-1/2"	<varies>	SEE PLANS FOR WASTE AND VENT SIZE REQUIRMENTS
D-1	J.R. SMITH:2005		FLOOR DRAIN WITH CAST IRON BODY, FLASHING COLLAR, 6" ROUND ADJUSTABLE NICKEL BRONZE GRATE.	-	-	1-1/2"	3"	SEE PLANS FOR WASTE AND VENT SIZE REQUIREMENTS.
DSN-1	J.R. SMITH:1770		DOWNSPOUT NOZZLE WITH CAST-BRONZE BODY WITH THREADED INLET FOR PIPE SIZE INDICATED ONPLANS, AND CAST-BRONZE WALL FLANGE WITH MOUNTING HOLES. FLANGE SHALL SERVE AS ANCHOR. 1. FINISH: NICKEL BRONZE FINISH 2. PROVIDE BIRD SCREEN	-	-	-	-	SEE PLANS FOR STORM AND OVERFLOW SIZE REQUIREMENTS.
FS-1	J.R. SMITH:3101		FLOOR SINK WITH SEDIMENT BUCKET, ACID RESISTANT COATED CAST IRON BODY, FLASHING COLLAR, AND REMOVABLE 8-1/2" SQUARE NICKEL BRONZE TOP. PROVIDE THE FOLLOWING FEATURES: 1. 3/4 GRATE 2. HINGED GRATE	-	-	<varies>	<varies>	SEE PLANS FOR WASTE AND VENT SIZES.
OD-1	J.R. SMITH:1010		ROOF DRAIN WITH CAST IRON BODY, COMBINATION FLASHING COLLAR AND GRAVEL STOP, WITH THE FOLLOWING FEATURES: 1.UNDER-DECK CLAMP 2.ADJUSTABLE INSULATION EXTENSION 3.SUMP RECEIVER 4.CAST IRON VANDAL PROOF DOME 5.REQUIRED GASKETS 6.2" OVERFLOW STANDPIPE	-	-	-	-	SEE PLANS FOR STORM AND OVERFLOW SIZE REQUIREMENTS.
RD-1	J.R. SMITH:1010		ROOF DRAIN WITH CAST IRON BODY, COMBINATION FLASHING COLLAR AND GRAVEL STOP, WITH THE FOLLOWING FEATURES: 1.UNDER-DECK CLAMP 2.ADJUSTABLE INSULATION EXTENSION 3.SUMP RECEIVER 4.CAST IRON VANDAL PROOF DOME 5.REQUIRED GASKETS	-	-	-	-	SEE PLANS FOR STORM AND OVERFLOW SIZE REQUIREMENTS.
RH-1	WOODFORD:RHY2-MS		ROOF HYDRANT WITH THE FOLLOWING FEATURES: NON-FREEZE, CAST IRON, AUTOMATIC DRAINING, DUAL CHECK BACKFLOW PREVENTER, 3/4" NPS THREADED OR SOLDER JOINT INLET, AND GARDEN HOSE THREADS ON OUTLET. TYPE: SURFACE MOUNT OPERATION: MANUFACTURER'S STANDARD LENGTH: AS REQUIRED FOR INSTALLING VALVE MINIMUM 30" ABOVE ROOF DECK.	3/4"	-	-	3/4"	
WH-1	WOODFORD:67C		WALL HYDRANT WITH THE FOLLOWING FEATURES: NON-FREEZE, AUTOMATIC DRAINING, ANTI-BACKFLOW TYPE, KEY OPERATION, 3/4" NPS THREADED OR SOLDER JOINT INLET, AND GARDEN HOSE THREADS ON OUTLET. INCLUDE OPERATING KEY FOR EACH HYDRANT. TYPE: SURFACE MOUNT FINISH: CHROME PLATED OPERATION: KEY, 3/8" OPERATING ROD	3/4"	-	-	-	
WMB-1	GUY GRAY:B200		DESCRIPTION: METAL WASHING MACHINE BOX. CONSTRUCTION: RECESSED BOX AND FACEPLATE, 1/2" MIP/SWEAT CONNECTION VALVES AND A 2" THREADED DRAIN FITTING AND LOCKNUT. VALVES SHALL BE QUARTER TURN BALL VALVES.	3/4"	3/4"	2"	2"	
IMB-1	GUY GRAY:BIM875		DESCRIPTION: METAL ICE MAKER BOX. CONSTRUCTION: RECESSED BOX AND FACEPLATE, 1/2" OUTLET COMPRESSION ANGLE SHUT-OFF VALVE	1/4"	-	-	-	PROVIDE FIRE RATED OUTLET BOX WHEN INSTALLED IN FIRE RATED WALL.

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M4-2

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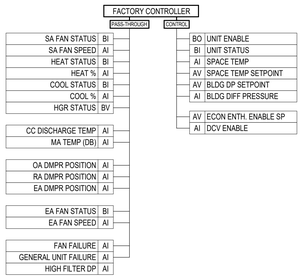


SEQUENCE OF OPERATION

THE ROOFTOP UNIT (RTU) FACTORY CONTROLLER SHALL SEQUENCE UNIT OPERATION. INDICATED SEQUENCE OF OPERATION IS FOR GENERAL REFERENCE ON INTENDED CONTROL OF UNIT. COORDINATE UNIT SETUP AND CONFIGURATION WITH RTU MANUFACTURER. IDENTIFY VARIATIONS IN SEQUENCING WHICH SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION. THE TEMPERATURE CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL POINTS USED FOR UNIT OPERATION. PASS-THROUGH POINTS (AS A MINIMUM) SHALL BE MAPPED FROM THE FACTORY CONTROLLER AND SHOWN ON BAS GRAPHICS. IF THE POINTS LISTED ARE UNABLE TO BE MAPPED FROM THE FACTORY RTU CONTROLLER, THE TEMPERATURE CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL SENSORS, CONTROLLERS, WIRING, ETC. AS REQUIRED TO ACCOMMODATE SAID POINTS. COORDINATE WITH ACTUAL RTU PROVIDED FOR THE PROJECT.

A. SYSTEM OFF – WHEN THE SYSTEM IS OFF:
   a. THE SUPPLY FAN SHALL BE OFF.
   b. THE POWERED RELIEF FAN SHALL BE OFF.
   c. THE OUTSIDE AIR DAMPER SHALL BE CLOSED.
   d. THE RELIEF AIR DAMPER SHALL BE CLOSED.
   e. THE RETURN AIR DAMPER SHALL BE OPEN.
   f. THE DX COOLING SYSTEM SHALL BE DISABLED.
   g. THE GAS-FIRED HEATING SYSTEM SHALL BE DISABLED.

B. INITIATION OF SYSTEM START-UP – THE SYSTEM SHALL BE STARTED:
   a. MANUALLY BY AN OPERATOR THROUGH THE BAS.
   b. AUTOMATICALLY BY THE BAS THROUGH AN OCCUPANCY SCHEDULE. THE OCCUPANCY SCHEDULE SHALL BE COORDINATED WITH AN OWNER REPRESENTATIVE.
   c. AUTOMATICALLY BY BAS FOR MORNING WARM-UP / COOL-DOWN (OPTIMAL START).
   d. AUTOMATICALLY BY THE BAS TO MAINTAIN UNOCCUPIED SETPOINTS.
   e. AUTOMATICALLY BY THE BAS TO ACCOMMODATE AN OCCUPANCY OVERRIDE REQUEST.

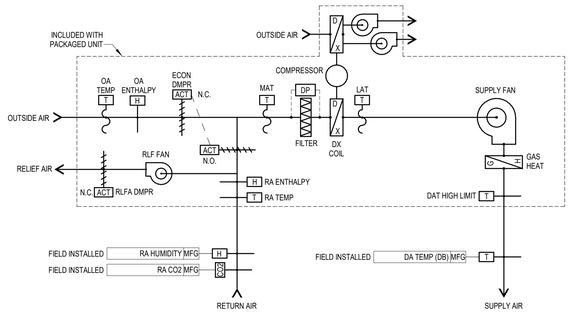
C. SYSTEM OPERATION – AFTER SYSTEM START-UP HAS BEEN INITIATED THE FOLLOWING SHALL OCCUR:
   a. RTU SHALL OPERATE AS A SINGLE ZONE VARIABLE AIR VOLUME SYSTEM.
   b. THE SUPPLY FAN SHALL BE ENABLED. DURING OCCUPIED HOURS THE FAN SHALL RUN CONTINUOUSLY BETWEEN A SPECIFIED MINIMUM AND MAXIMUM SPEED. THE UNIT SHALL MODULATE THE SUPPLY FAN BETWEEN THE MINIMUM AND MAXIMUM BASED ON HOW NEAR OR FAR THE SPACE TEMPERATURE IS AWAY FROM SETPOINT. DURING UNOCCUPIED HOURS THE FAN SHALL CYCLE TO MAINTAIN THE NIGHT SETBACK TEMPERATURE SETPOINTS.
   c. THE RELIEF AIR DAMPER SHALL MODULATE TO MAINTAIN STATIC PRESSURE SETPOINT.
   d. ECONOMIZER: A COMPARATIVE DRY BULB OR COMPARATIVE ENTHALPY SHALL BE ENGAGED WHENEVER THE OUTDOOR ENTHALPY OR DRY BULB IS LESS THAN THE RETURN AIR ENTHALPY OR DRY BULB TO UTILIZE OUTSIDE AIR FOR COOLING. OWNER SHALL BE ABLE TO SELECT DRY BULB OR ENTHALPY ECONOMIZER OPERATION BY A SELECTION SWITCH ON CONTROL SCREEN. OUTSIDE AIR AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN SUPPLY AIR TEMPERATURE SET POINT.
   e. DX COOLING:
      • THE UNIT CAPACITY SHALL MODULATE THE DIGITAL SCROLL COMPRESSOR TO MAINTAIN THE SPACE COOLING TEMPERATURE SETPOINT. PROVIDE A SOFTWARE INTERLOCK TO PREVENT THE DX COOLING COIL FROM OPERATING WHEN CONDITIONS ARE FAVORABLE FOR ECONOMIZER OPERATION.
   f. GAS HEAT
      • THE GAS HEATING COIL SHALL MODULATE TO MAINTAIN THE SPACE HEATING TEMPERATURE SETPOINT.
   g. MODULATING HOT GAS REHEAT
      • THE UNIT IS PROVIDED WITH A FULLY MODULATING, SUB-COOLING, HOT GAS REHEAT COIL.
      • DEHUMIDIFICATION CONTROLS ALLOW THE UNIT TO COOL AND DEHUMIDIFY SIMULTANEOUSLY OR JUST DEHUMIDIFY IF NO COOLING IS NEEDED.
      • DEHUMIDIFICATION WILL BE ACTIVATED WHEN THE SPACE RELATIVE HUMIDITY RISES ABOVE THE DEHUMIDIFICATION SET POINT.
   h. DEMAND CONTROL VENTILATION
      • WHEN IN OCCUPIED MODE, THE CONTROLLER SHALL MEASURE THE SPACE CO2 LEVELS AND THE OUTSIDE AIR DAMPER AND EXHAUST AIR DAMPER SHALL MODULATE BETWEEN MINIMUM AND MAXIMUM VALUE SHOWN ON RTU SCHEDULE TO HELP MAINTAIN SETPOINT.

D. SYSTEM SHUTDOWN – SHALL BE INITIATED AS FOLLOWS:
   a. MANUALLY INITIATED BY OPERATOR THROUGH BAS.
   b. AUTOMATICALLY THROUGH OCCUPANCY SCHEDULE.
   c. AUTOMATICALLY IN THE EVENT OF BUILDING POWER FAILURE OR FIRE ALARM.

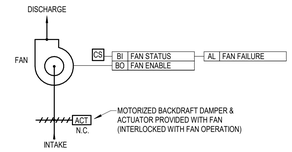
E. SYSTEM SETPOINTS – THE SETPOINTS SHALL BE OPERATOR CHANGEABLE AND INITIALLY SET AS FOLLOWS:
   a. SEE SPACE TEMPERATURE SETPOINT TABLE FOR DIFFERENT OCCUPANCY MODES AND SETBACKS.
   b. THE MINIMUM AND MAXIMUM VENTILATION AIRFLOWS CAN BE FOUND ON THE RTU SCHEDULE. MIN AND MAX VENTILATION POSITIONS SHALL BE DETERMINED DURING TESTING, ADJUSTING, AND BALANCING.
   c. THE DCV ENABLE SP SHALL BE 500 PPM ABOVE THE AMBIENT CO2 READING. THIS IS A DYNAMICALLY CONTROLLED SETPOINT.
   d. THE BUILDING PRESSURE SETPOINT SHALL BE 0.05 INCHES W.G.

F. FAILURE POSITIONS – THE FOLLOWING SHALL OCCUR UPON COMPONENT FAILURE OR LOSS OF POWER:
   a. RELIEF AIR DAMPERS SHALL CLOSE.
   b. OUTSIDE AIR DAMPERS SHALL CLOSE.
   c. RETURN AIR DAMPERS SHALL OPEN.
   d. THE SUPPLY FAN SHALL REMAIN IN THE LAST COMMANDED STATE.
   e. DX COOLING SHALL BE DISABLED.
   f. GAS HEATING SHALL BE DISABLED.

G. ALARMS, INTERLOCKS, AND SAFETIES:
   a. THE BAS SHALL GENERATE AN ALARM UPON HIGHER AND LOWER THAN THE TEMPERATURE SETPOINTS BY 2°F (ADJ.) ABOVE/BELOW THE TEMPERATURE SETPOINT.
   b. THE BAS SHALL GENERATE AN ALARM UPON IF THE BUILDING AIR STATIC PRESSURE IS 25% HIGHER OR LOWER THAN SETPOINT FOR LONGER THAN 60 SECONDS (ADJ.)
   c. THE BAS SHALL GENERATE AN ALARM UPON SPACE CO2 CONCENTRATION BEING GREATER THAN 1500 PPM (ADJ.) OR GREATER.
   d. THE BAS SHALL GENERATE AN ALARM UPON MEASURING A RETURN AIR RELATIVE HUMIDITY OF 70% (ADJ.) OR GREATER.
   e. THE BAS SHALL GENERATE AN ALARM UPON A SUPPLY FAN STATUS/COMMAND MISMATCH FOR 30 SECONDS (ADJ.) OR MORE.
      • UPON SUPPLY FAN FAILURE TO PROVE STATUS, THE BAS SHALL SHUTDOWN THE AHU FOR 2 MINUTES (ADJ). THE BAS SHALL THEN REINITIATE AHU STARTUP.
      • THE SUPPLY FAN FAILURE ALARM SHALL LATCH UNTIL THE SUPPLY FAN FAILURE IS RESOLVED AND ACKNOWLEDGED BY A BAS OPERATOR.
   f. THE BAS SHALL GENERATE AN ALARM UPON THE FILTER PRESSURE DROP EXCEEDING THE MAXIMUM ALLOWED FILTER PRESSURE DROP. COORDINATE MAXIMUM PRESSURE DROP ALLOWED WITH A DISTRICT REPRESENTATIVE.



1 M5-1 ROOFTOP UNIT - TEMPERATURE CONTROL DIAGRAM
NTS



EXHAUST FAN - AIRFLOW*	
MINIMUM	MAXIMUM
300 CFM	750 CFM

A. SYSTEM OFF – WHEN THE SYSTEM IS OFF:
   1. THE FAN SHALL BE OFF.
      A. THE MOTORIZED DAMPER SHALL BE CLOSED (INTERLOCKED WITH FAN ENABLE CIRCUIT).

B. INITIATION OF SYSTEM START-UP – THE SYSTEM SHALL BE STARTED:
   1. MANUALLY BY AN OPERATOR THROUGH THE BAS.
   2. AUTOMATICALLY BY THE BAS BASED ON AN OCCUPANCY SCHEDULE. COORDINATE THE OCCUPANCY SCHEDULE WITH A DISTRICT REPRESENTATIVE.
   3. IF THE SCHEDULE IS IN OCCUPIED MODE AND THE SPACE IS OCCUPIED ACCORDING TO THE LIGHTING CONTROL SYSTEM, THE FAN AIRFLOW SHALL BE SET TO THE MAXIMUM VALUES. IF THE SCHEDULE IS IN OCCUPIED MODE AND THE SPACE IS UNOCCUPIED ACCORDING TO THE LIGHTING CONTROL SYSTEM, THE FAN AIRFLOW SHALL BE SET TO THE MINIMUM VALUES.

C. SYSTEM OPERATION – AFTER SYSTEM START-UP HAS BEEN INITIATED THE FOLLOWING SHALL OCCUR:
   1. THE FAN SHALL START. THE FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
      A. THE MOTORIZED DAMPER SHALL OPEN (INTERLOCKED WITH FAN ENABLE CIRCUIT).

D. SYSTEM SHUTDOWN – SHALL BE INITIATED AS FOLLOWS:
   1. MANUALLY BY AN OPERATOR THROUGH THE BAS.
   2. AUTOMATICALLY BY THE BAS BASED ON AN OCCUPANCY SCHEDULE.

E. SYSTEM ALARMS.
   1. THE BAS SHALL GENERATE AN ALARM UPON A MISMATCH BETWEEN THE FAN'S COMMANDED STATE AND ITS STATUS.

2 M5-1 EXHAUST FAN - TEMPERATURE CONTROL DIAGRAM
NTS

SEQUENCE OF OPERATION

A. SYSTEM OFF –WHEN THE SYSTEM IS OFF:
   1. THE UNIT HEATER SHALL BE OFF.

B. INITIATION OF SYSTEM START-UP –THE SYSTEM SHALL BE STARTED:
   1. MANUALLY INITIATED BY OPERATOR THROUGH BAS.
   2. AUTOMATICALLY BY BAS WHENEVER THE SPACE TEMPERATURE FALLS BELOW THE SPACE HEATING TEMPERATURE SETPOINT MINUS THE OFFSET.

C. SYSTEM OPERATION –AFTER SYSTEM START-UP HAS BEEN INITIATED THE FOLLOWING SHALL OCCUR:
   1. THE UNIT HEATER SHALL START.

D. SYSTEM SHUTDOWN –SHALL BE INITIATED AS FOLLOWS:
   1. MANUALLY INITIATED BY OPERATOR THROUGH BAS.
   2. AUTOMATICALLY BY BAS WHENEVER THE SPACE TEMPERATURE RISE ABOVE THE SPACE HEATING TEMPERATURE SETPOINT PLUS THE OFFSET.

E. SYSTEM SETPOINTS –THE SETPOINTS SHALL BE OPERATOR CHANGEABLE AND INITIALLY SET AS FOLLOWS:
   1. SPACE HEATING TEMPERATURE SETPOINT SHALL BE 60°F (ADJ.).
   2. SPACE HEATING TEMPERATURE OFFSET SHALL BE 1°F (ADJ.).

F. ALARMS, INTERLOCKS, AND SAFETIES:
   1. UNIT HEATER FAILURE
   2. LOW SPACE TEMPERATURE SETPOINT SHALL BE SET INITIALLY AT 2°F BELOW THE SPACE HEATING TEMPERATURE SETPOINT.

3 M5-1 ELECTRIC UNIT HEATER - TEMPERATURE CONTROL DIAGRAM
NTS

MEI PROJECT NO: 25612

morrissey engineering inc
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note:
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at 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.

BCDM architects

PROJECT TEAM

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

#	Description	Date

LEWIS CENTRAL MIDDLE ATHLETIC BULIDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

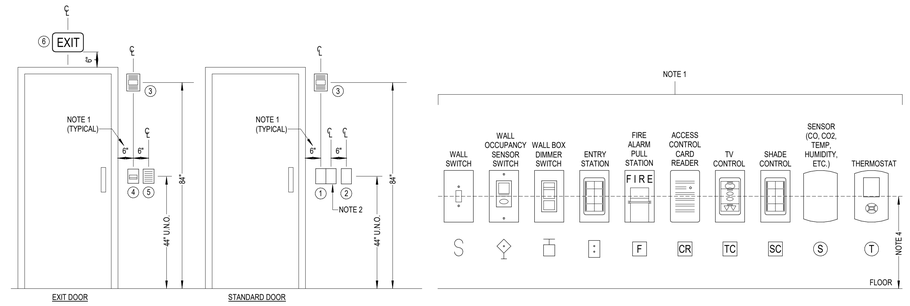
TEMPERATURE CONTROL DIAGRAMS

M5-1

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

LEFT BINDING EDGE

2/23/2026 2:58:01 PM



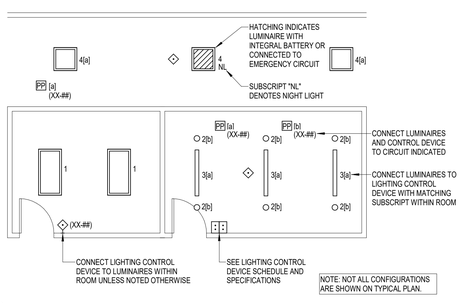
DEVICES:

1. WALL SWITCH, WALL OCCUPANCY SENSOR SWITCH, WALL BOX DIMMER SWITCH, OR ENTRY STATION
2. THERMOSTAT, TEMPERATURE SENSOR, OR CARBON DIOXIDE SENSOR ROUGH-IN
3. FIRE ALARM AUDIO/VISUAL INDICATING DEVICE
4. FIRE ALARM PULL STATION
5. ACCESS CONTROL CARD READER
6. EXIT SIGN
7. A/V TOUCHSCREEN

NOTES:

1. ALIGN DEVICES VERTICALLY AND HORIZONTALLY WHEREVER POSSIBLE. NOT ALL DEVICES OR CONFIGURATIONS ARE DEPICTED ON THIS DETAIL. FOR ANY CONFIGURATIONS WITH FOUR OR MORE DEVICES, COORDINATE ARRANGEMENT WITH THE ENGINEER PRIOR TO ROUGH-IN. SEE FLOOR PLANS FOR INDIVIDUAL DOOR REQUIREMENTS.
2. WHERE MULTIPLE SWITCHES OR WALL BOX DIMMERS ARE GANGED TOGETHER, ALIGN FIRST GANG WITH DEVICES ABOVE AND ADD DEVICES TO THE RIGHT AS REQUIRED.
3. DIMENSIONS ARE TO BE MEASURED FROM OUTSIDE EDGE OF DOOR FRAME OR TRIM. WHERE SIDE LIGHT WINDOWS ARE PROVIDED, DIMENSIONS SHOULD BE MEASURED FROM OUTSIDE EDGE OF SIDE LIGHT WINDOW FRAME OR TRIM.
4. ALL DEVICES SHALL BE LOCATED TO MAINTAIN ALL A.D.A. MOUNTING HEIGHT REQUIREMENTS AND SUCH THAT CENTER OF ADJACENT DEVICES ARE AT SAME ELEVATION (TYPICALLY 44" A.F.F. TO CENTER OF DEVICE). NOTIFY ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.

2 DEVICE ALIGNMENT DETAIL
E0-0 / NOT TO SCALE



1 TYPICAL LIGHTING AND CONTROL PLAN
E0-0 / NOT TO SCALE

ELECTRICAL NOTES

GENERAL:

1. MINIMUM BRANCH CIRCUIT CONDUIT SHALL BE 1/2". MINIMUM DATA/COMMUNICATIONS CONDUIT SHALL BE 1". SEE DRAWINGS FOR AREAS WHERE LARGER CONDUIT SIZES ARE REQUIRED.
2. PROVIDE A DEDICATED NEUTRAL CONDUCTOR AND GREEN INSULATED GROUND WIRE FOR EACH BRANCH CIRCUIT.
3. SEE DEVICE ALIGNMENT DETAIL FOR MOUNTING LOCATION AND HEIGHT OF ELECTRICAL DEVICES ADJACENT TO DOORS.
4. PROVIDE APPROPRIATELY RATED DEVICES OR ENCLOSURES AS REQUIRED TO MAINTAIN THE INTEGRITY OF FIRE AND SMOKE RATED CONSTRUCTION. ENSURE ALL PENETRATIONS THROUGH FIRE AND SMOKE BARRIERS ARE PROPERLY FIRESTOPPED. CONTRACTOR SHALL COORDINATE REQUIRED LOCATIONS AND RATINGS WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.
5. ALL LOW VOLTAGE CABLING THAT PENETRATES WALLS SHALL BE ROUTED THROUGH CONDUIT SLEEVES. PROVIDE SMOKE AND ACOUSTIC SLEEVES (HILTI CS-SL SA OR EQUAL BY STI), OR APPROPRIATELY RATED SLEEVE FOR ALL FIRE AND SMOKE RATED CONSTRUCTION. REFER TO PLANS FOR REQUIRED SLEEVE LOCATIONS AND PROVIDE ADDITIONAL SLEEVES AT CONTRACTOR'S DISCRETION AS REQUIRED TO ROUTE CABLING. LOCATE SLEEVES ABOVE ACCESSIBLE CEILINGS AND PROVIDE INSULATED BUSHINGS ON EACH END.
6. EXPOSED STRUCTURE: ROUTE CONDUIT TIGHT TO DECK IN SPACES WITHOUT CEILINGS OR PARTIALLY-OPEN CEILINGS. EXPOSED WIRING OR CABLING OF ANY TYPE IS NOT ALLOWED UNLESS NOTED OTHERWISE. CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER AND GROUPED WHERE POSSIBLE. PAINT EXPOSED CONDUIT AND BOXES TO MATCH STRUCTURE IN ALL FINISHED AREAS.
7. ALL CABLING AND RACEWAY INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL CORRUGATED ROOF DECKING SHALL BE INSTALLED WITH THE REQUIRED CLEARANCE PER NEC SECTION 300.4(E).
8. PROVIDE TYPED AS-BUILT DIRECTORY FOR ALL ELECTRICAL PANELS, LIGHTING CONTROL PANELS, AND FIRE ALARM SYSTEM AT COMPLETION OF PROJECT. UPDATE ALL EXISTING PANELBOARD DIRECTORIES IMPACTED BY ELECTRICAL WORK. DIRECTORY LABELS SHALL INCLUDE A DESCRIPTION OF THE LOAD AS WELL AS THE OWNER'S ROOM NAME AND NUMBER.

DEMOLITION:

1. COMPLETE EXTENT OF DEMOLITION IS NOT INDICATED ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BID DATE.
2. DEMOLITION DRAWINGS INDICATE LUMINAIRES, DEVICES AND MAJOR PIECES OF EQUIPMENT WHICH ARE TO BE REMOVED OR RECONNECTED (INDICATED DASHED). REMOVE ASSOCIATED ITEMS NOT INDICATED BUT WHICH MUST BE REMOVED TO ACCOMMODATE REMODELING. SEE PROJECT MANUAL "WORK IN EXISTING BUILDINGS" FOR ADDITIONAL INFORMATION.
3. SUBSCRIPT 'E' INDICATES AN EXISTING LUMINAIRE OR DEVICE TO REMAIN. PROVIDE ADDITIONAL CONDUIT AND WIRING TO MAINTAIN CIRCUIT CONTINUITY FOR DOWNSTREAM DEVICES/LUMINAIRES.
4. SUBSCRIPT 'R' INDICATES AN EXISTING LUMINAIRE OR DEVICE TO BE RELOCATED. REMOVE EXISTING LUMINAIRE OR DEVICE, PROTECT, AND STORE FOR RE-INSTALLATION. SEE NEW WORK PLANS FOR NEW LOCATION AND RECONNECT AS INDICATED.
5. REMOVE ALL UNUSED LOW VOLTAGE AND FIRE ALARM CABLING UNLESS NOTED OTHERWISE.
6. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS AND WHERE EXISTING WALLS ARE TO BE REMOVED. DISCONNECT AND REMOVE ELECTRICAL DEVICES, EQUIPMENT AND ASSOCIATED WIRING AS REQUIRED TO ACCOMMODATE CONSTRUCTION.
7. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL ELECTRICAL ITEMS. CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH OWNER AND DISPOSE OF UNWANTED ITEMS.
8. WHERE EXISTING CIRCUITS ARE NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED RACEWAYS BACK TO THEIR SOURCE. CONDUITS CONCEALED IN WALLS MAY BE ABANDONED UNLESS NOTED OTHERWISE.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING, AND REPLACEMENT OF ALL EXISTING WALLS, CEILING, FLOORS, OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION OR INSTALLATION OF NEW ELECTRICAL WORK.
10. POWER TO EXISTING AREAS NOT BEING REMODELED SHALL BE MAINTAINED EXCEPT FOR SHORT TERM OUTAGES NECESSARY TO RECONNECT EXISTING CIRCUITS. COORDINATE REQUIRED OUTAGES WITH THE OWNER TO ACCOMMODATE THEIR SCHEDULE.

POWER:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR ALL THERMOSTATS AND SENSORS. ROUGH-IN TO INCLUDE 4" SQUARE BOX, SINGLE GANG MUD RING, AND 1/2" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING. LOCATE BOX PER DEVICE ALIGNMENT DETAIL. REFER TO MECHANICAL DRAWINGS FOR THERMOSTAT AND/OR SENSOR LOCATIONS.
2. PROVIDE TAMPER RESISTANT RECEPTACLES PER NEC 406.12. TAMPER RESISTANT RECEPTACLE LOCATIONS ARE NOT INDICATED ON THE DRAWINGS.
3. PROVIDE CONVENIENCE RECEPTACLES AT EQUIPMENT REQUIRING SERVICING PER 2023 NEC 210.63.
4. REFER TO ACCESS CONTROL DETAIL FOR DOOR HARDWARE ROUGH-IN REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
5. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION OF DEVICES FOR ALL TELEVISIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

LIGHTING:

1. MINIMUM WIRE SIZE FOR EMERGENCY LIGHTING CIRCUITS SHALL BE #10 AWG UNLESS OTHERWISE NOTED. ROUTE EMERGENCY CIRCUITS IN SEPARATE CONDUIT.
2. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL CONTROL DEVICES.
3. 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.

LIGHTING CONTROLS:

1. SEE LIGHTING CONTROL DEVICE SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE 10' SERVICE LOOP FOR CEILING SENSOR LOW VOLTAGE CABLING TO ALLOW FOR ADJUSTMENTS TO LOCATION. NEATLY COIL EXCESS CABLE ABOVE CEILING USING VELCRO STRAPS.
3. PROVIDE 600V RATED CONTROL WIRING TO ALL LUMINARIES SERVED BY 0-10V DIMMING RELAYS AND CONTROL DEVICES. ROUTE CONTROL WIRING IN SEPARATE CONDUIT. #18 AWG FOR RUNS UP TO 300 FEET AND #16 AWG FOR RUNS BETWEEN 300 AND 400 FEET.

FIRE ALARM:

1. PROVIDE FIRE ALARM WIRING TO POST INDICATOR VALVE. USE RGS CONDUIT WHERE EXPOSED ABOVE GRADE. PROVIDE FIRE ALARM WIRING TO EACH FIRE SPRINKLER SYSTEM FLOW AND TAMPER SWITCH. COORDINATE QUANTITIES AND LOCATIONS WITH FIRE SPRINKLER CONTRACTOR AND MECHANICAL DRAWINGS.
2. ROUTE FIRE ALARM WIRING IN CONDUIT ABOVE DRYWALL CEILINGS AND WHERE CEILING IS EXPOSED. CONDUIT IS NOT REQUIRED ABOVE ACCESSIBLE CEILINGS. PROVIDE J-HOOK STYLE SUPPORTS FOR CABLING (MAXIMUM 60" SPACING) - DO NOT LAY CABLES DIRECTLY ON TOP OF CEILINGS.
3. PROVIDE ADDRESSABLE CONTROL MODULES AS REQUIRED FOR CONTROL OF ELECTRIC LOCKS/STRIKES ON EGRESS DOORS. DOORS SHALL BE UNLOCKED IN AN ALARM CONDITION. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE FOR REQUIREMENTS.
4. PROVIDE ELECTRICAL CONNECTIONS TO FIRE AND SMOKE DAMPERS INCLUDING POWER AND FIRE ALARM. PROVIDE A DUCT-MOUNTED SMOKE DETECTOR WITHIN 5'-0" OF SMOKE DAMPER PER IMC 607.3.3.2. PROVIDE 120V CONNECTION FROM LOCKABLE CIRCUIT BREAKER IN NEAREST 120V PANEL WITH A MAXIMUM OF SIX DAMPERS PER 20A/1P CIRCUIT. VERIFY EXACT QUANTITY AND LOCATION OF DAMPERS WITH MECHANICAL DRAWINGS. SEE DETAILS FOR ADDITIONAL REQUIREMENTS.
5. CONNECT ALL FIRE ALARM REMOTE POWER SUPPLIES AND ASSOCIATED EQUIPMENT TO A LOCKABLE CIRCUIT BREAKER IN THE NEAREST 120V/208V PANEL.
6. PROVIDE A SMOKE DETECTOR ABOVE ALL REMOTE POWER SUPPLIES.
7. PROVIDE 120V CIRCUIT FROM LOCKABLE CIRCUIT BREAKER TO NEAREST 120/208V PANEL TO SPRINKLER SYSTEM ALARM BELL.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
LIGHTING			
	LUMINAIRE		SINGLE POLE SWITCH
	LUMINAIRE		3 - WAY SWITCH
	LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT OR BATTERY		4 - WAY SWITCH
	STRIP LUMINAIRE		WALL BOX DIMMER SWITCH
	WALL MOUNTED LUMINAIRE (NUMBER OR LETTER DENOTES TYPE, SEE CORRESPONDING MARK IN LUMINAIRE SCHEDULE)		CEILING MOUNTED MOTION SENSOR/SWITCH
	WALL MOUNTED LUMINAIRE		WALL MOUNTED MOTION SENSOR/SWITCH
	TRACK LUMINAIRE		WALL MOUNTED MOTION SENSOR/SWITCH WITH 0-10V DIMMING
	EMERGENCY BATTERY PACK		LOW VOLTAGE LIGHTING CONTROL SWITCH
	CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW		WALL MOUNTED PHOTOCELL
	WALL OR END MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW		CEILING MOUNTED PHOTOCELL
	POLE MOUNTED LUMINAIRE		POWER PACK
	BOLLARD LUMINAIRE		
FIRE ALARM			
	FIRE ALARM SMOKE DETECTOR		FIRE ALARM HORN & STROBE COMBINATION
	FIRE ALARM HEAT DETECTOR		FIRE ALARM MINI-HORN & STROBE COMBINATION
	DUCT MOUNTED SMOKE DETECTOR		CEILING FIRE ALARM STROBE
	FIRE ALARM MANUAL PULL STATION		WALL FIRE ALARM STROBE
	FIRE SPRINKLER VALVE TAMPER SWITCH		CEILING FIRE ALARM HORN & STROBE COMBINATION
	FIRE SPRINKLER FLOW SWITCH		CEILING FIRE ALARM SPEAKER & STROBE COMBINATION
	FIRE ALARM CONTROL PANEL		WALL FIRE ALARM SPEAKER & STROBE COMBINATION
	FIRE ALARM ANNUNCIATOR PANEL		CEILING FIRE ALARM SPEAKER
	FIRE ALARM MAGNETIC DOOR HOLDER		WALL FIRE ALARM SPEAKER
	WALL FIRE ALARM BEAM DETECTOR REFLECTOR		WALL FIRE ALARM BEAM DETECTOR TRANSMITTER
POWER			
	DUPLEX RECEPTACLE		CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE
	"G" DENOTES GFCI TYPE		FLOOR BOX - COMBINATION POWER & DATA
	"Y" DENOTES ISOLATED GROUND TYPE		POKE-THRU - COMBINATION POWER & DATA
	"H" DENOTES HOSPITAL GRADE TYPE		FLOOR MOUNTED DUPLEX RECEPTACLE
	"TR" DENOTES TAMPER RESISTANT TYPE		MOTOR ("x" DENOTES HORSEPOWER RATING)
	"U" DENOTES UNIVERSAL SERIAL BUS (USB) TYPE		DISCONNECT SWITCH
	DOUBLE SHADING DENOTES RED DEVICE		THERMAL ELEMENT SWITCH
	SINGLE SHADING DENOTES SPLIT WIRED DEVICE		SWITCH & FUSE
	HORIZONTAL MOUNTED DUPLEX RECEPTACLE		SWITCH & FUSTAT
	CEILING MOUNTED DUPLEX RECEPTACLE		MAGNETIC MOTOR STARTER
	DOUBLE DUPLEX RECEPTACLE		COMBINATION MAGNETIC STARTER/DISCONNECT
	SINGLE RECEPTACLE		MOTOR CONTROL PUSH-BUTTON STATION
	DRYER RECEPTACLE NEMA 14-30 (125/250V 30A)		RELAY
	RANGE RECEPTACLE NEMA 14-50 (125/250V 50A)		MULTI-OUTLET ASSEMBLY - LENGTH AS INDICATED
	"W" DENOTES WELDER RECEPTACLE NEMA 6-50 (250V 50A)		LADDER CABLE TRAY
	SPECIAL PURPOSE RECEPTACLE (NEMA CONFIG. AS NOTED)		
COMMUNICATION			
	WALL PHONE OUTLET		INTERCOM CEILING SPEAKER
	WALL COMMUNICATIONS DATA OUTLET		INTERCOM WALL SPEAKER
	CEILING COMMUNICATIONS DATA OUTLET		SOUND REINFORCEMENT WALL SPEAKER
	CEILING WIRELESS ACCESS POINT OUTLET		SOUND REINFORCEMENT CEILING SPEAKER
	TELEVISION/VIDEO OUTLET		WALL MICROPHONE OUTLET
	WALL CLOCK		CEILING MICROPHONE OUTLET
	VOLUME CONTROL		CALL-IN DEVICE
	BASKET CABLE TRAY		LADDER CABLE TRAY
	AV RACK OUTLET		
SECURITY			
	CEILING MOUNTED SECURITY MOTION DETECTOR		VIDEO SURVEILLANCE CAMERA (# INDICATES TYPE)
	WALL MOUNTED SECURITY MOTION DETECTOR		SECURITY CARD READER
	WALL MOUNTED REQUEST TO EXIT MOTION SENSOR		ELECTRIC STRIKE
	DOOR POSITION SWITCH		ELECTRONIC LATCH RETRACTION
	MAGNETIC LOCK		INTRUSION KEYPAD
	INTERCOM STATION		WANDER GUARD
	VIDEO INTERCOM STATION		POWER TRANSFER DEVICE
	REQUEST TO EXIT PUSH BUTTON		LATCH RETRACTION DEVICE
GENERAL			
	LIGHTING PANEL		WALL MOUNTED JUNCTION BOX
	DISTRIBUTION PANEL, SWITCHBOARD, OR MOTOR CONTROL CENTER		JUNCTION BOX
	CABINET, ENCLOSURE, OR CONTROL PANEL, TYPE INDICATED ON PLANS		CONDUIT SEAL
	BRANCH CIRCUIT - EXPOSED		CIRCUIT DOWN
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL		CIRCUIT UP
	BRANCH CIRCUIT CONCEALED IN FLOOR		CONDUIT STUB-OUT
	BRANCH CIRCUIT - CLASS TWO WIRING		CIRCUIT BREAK
	HOMERUN TO PANEL (QUANTITY OF ARROWS INDICATES QUANTITY OF CIRCUITS)		BELL
	SPECIAL PURPOSE HOMERUN AS INDICATED		PUSH BUTTON
	CONDUIT / CONDUIT SLEEVE (SIZE INDICATED ON PLANS)		BUZZER
WP	SUBSCRIPT "WP" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEMA TYPE 3R OR EQUIVALENT		THERMOSTAT
			SENSOR
3R OR R7	SUBSCRIPT "3R" OR "R7" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEMA TYPE 3R OR EQUIVALENT	E	SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING
		R	SUBSCRIPT "R" ADDED TO ANY SYMBOL INDICATES RELOCATED
PD	SUBSCRIPT "PD" ADDED TO ANY FLOOR OUTLET INDICATES PEDESTAL MOUNTED	(TYP)	WHERE (TYP) IS USED ON PLANS INDICATES A TYPICAL NOTE OR CONDITION
		DL	SUBSCRIPT "DL" ADDED TO ANY SYMBOL INDICATES DIMP LOCATION
EP	SUBSCRIPT "EP" APPLIED TO ANY SYMBOL INDICATES EXPLOSION PROOF CLASS, GROUP & DIVISION AS NOTED	K	SUBSCRIPT "K" ADDED TO ANY SYMBOL INDICATES KEY OPERATED
		P	SUBSCRIPT "P" ADDED TO ANY SYMBOL INDICATES PILOT LIGHT

Interior Lighting Compliance Certificate

Project Information

Energy Code: **2018 IECC**

Project Type: Remodel/Addition

Allowed Interior Lighting Power

AREA CATEGORY	FLOOR AREA (FT2)	ALLOWED WATTS/FT2	ALLOWED WATTS
GYM	15248 SF	0.68 W/ft²	10369 W

Proposed Interior Lighting Power

FIXTURE ID	DESCRIPTION	# OF FIXTURES	FIXTURE WATT.	TOTAL WATTS
1	HIGHBAY	26	195 W	5070 W
2	8' LED STRIPLIGHT	35	74 W	2590 W
4	WALL BRACKET	8	40 W	320 W
7	2x4 FLAT PANEL	54	42 W	2268 W
Total Proposed Watts				10248 W

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

ENERGY CODE COMPLIANCE

CODE	2018 INTERNATIONAL ENERGY CONSERVATION CODE	
ComCHECK	YES	(1)
COMMISSIONING	YES	(2) (3) (4)

REMARKS:

1. ComCHECK COMPLIANCE REPORT CAN BE FOUND IN THE PROJECT MANUAL.
2. COMMISSIONING IS REQUIRED.
3. REQUIRED DOCUMENTS (REFER TO CODE) SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER REPRESENTATIVE WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
4. SEE RESPECTIVE SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

MEI PROJECT NO: 25612

morrissey engineering inc
mechanical | electrical | lighting | technology | sustainability
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LEWIS CENTRAL MIDDLE ATHLETIC BULIDING ADD/RENOV

3820 HARRY LANGDON BLVD,
COUNCIL BLUFFS, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ELECTRICAL COVER SHEET

E0-0

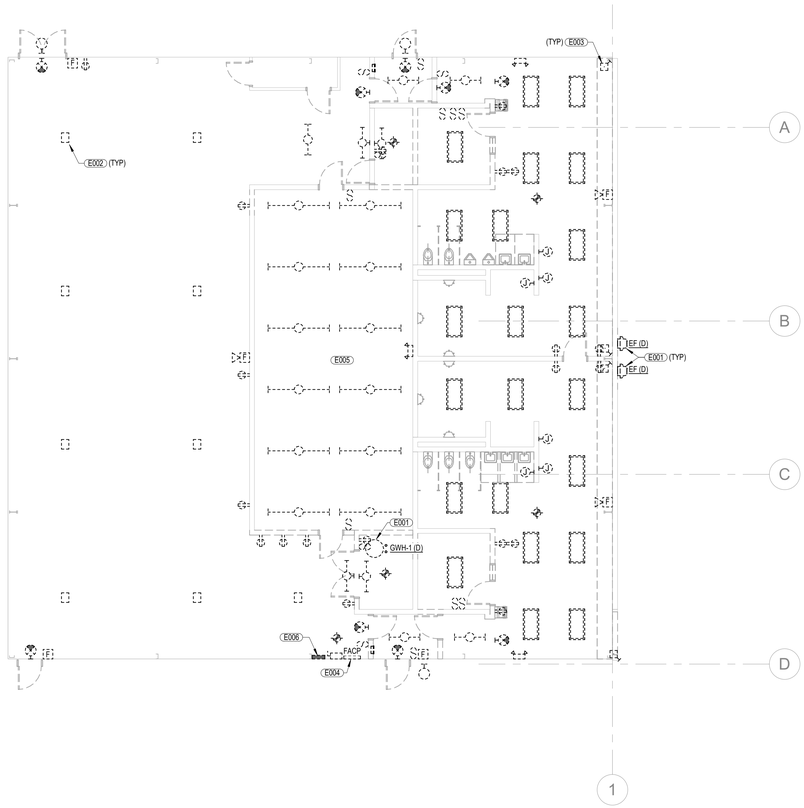
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
02-23-2026

LEFT BINDING EDGE

2/23/2026 2:58:01 PM

KEYNOTES

E001 REMOVE ELECTRICAL DISCONNECT AND ALL WIRING/CONDUIT BACK TO SOURCE.
E002 REMOVE LIGHT FIXTURE AND ALL WIRING/CONDUIT BACK TO SOURCE.
E003 REMOVE LGHTING DEVICE AND ALL ASSOCIATED/CONDUIT WIRING.
E004 REMOVE FIRE ALARM PANEL AND ALL FIRE ALARM DEVICES, WIRING, AND CONDUIT.
E005 REMOVE ALL POWER, FIRE ALARM, AND LIGHTING FIXTURES/DEVICES FROM THE EXISTING COACHES OFFICE AND THE EXISTING MEZZANINE ABOVE.
E006 REMOVE ELECTRICAL PANEL. INTERCEPT AND EXTEND ANY CIRCUITS THAT REMAIN TO NEW ELECTRICAL PANEL LOCATION.



1 ED1-0 FIRST FLOOR - ELECTRICAL DEMOLITION
1/8" = 1'-0" 0' 8' 16'

TRUE NORTH PLAN NORTH

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FLOOR PLAN - ELECTRICAL DEMOLITION

ED1-0

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

MEI PROJECT NO: 25612

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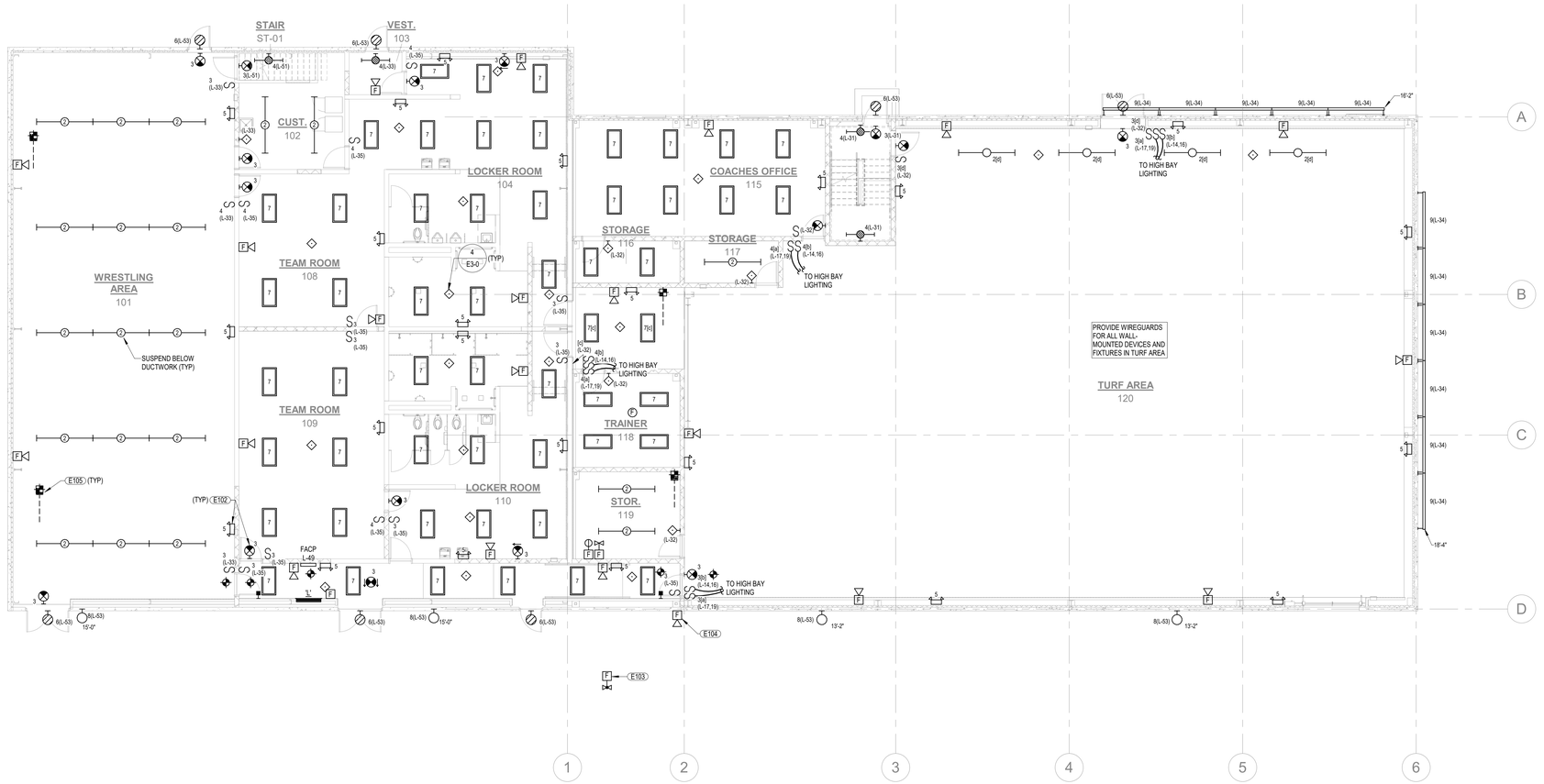
KEYNOTES

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 F.A. WIRING IN ½" 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 KEYED 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.



1 FIRST FLOOR - LIGHTING
E1-0 1/8" = 1'-0" 0' 8' 16'

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FLOOR PLAN - LIGHTING

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E1-0

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

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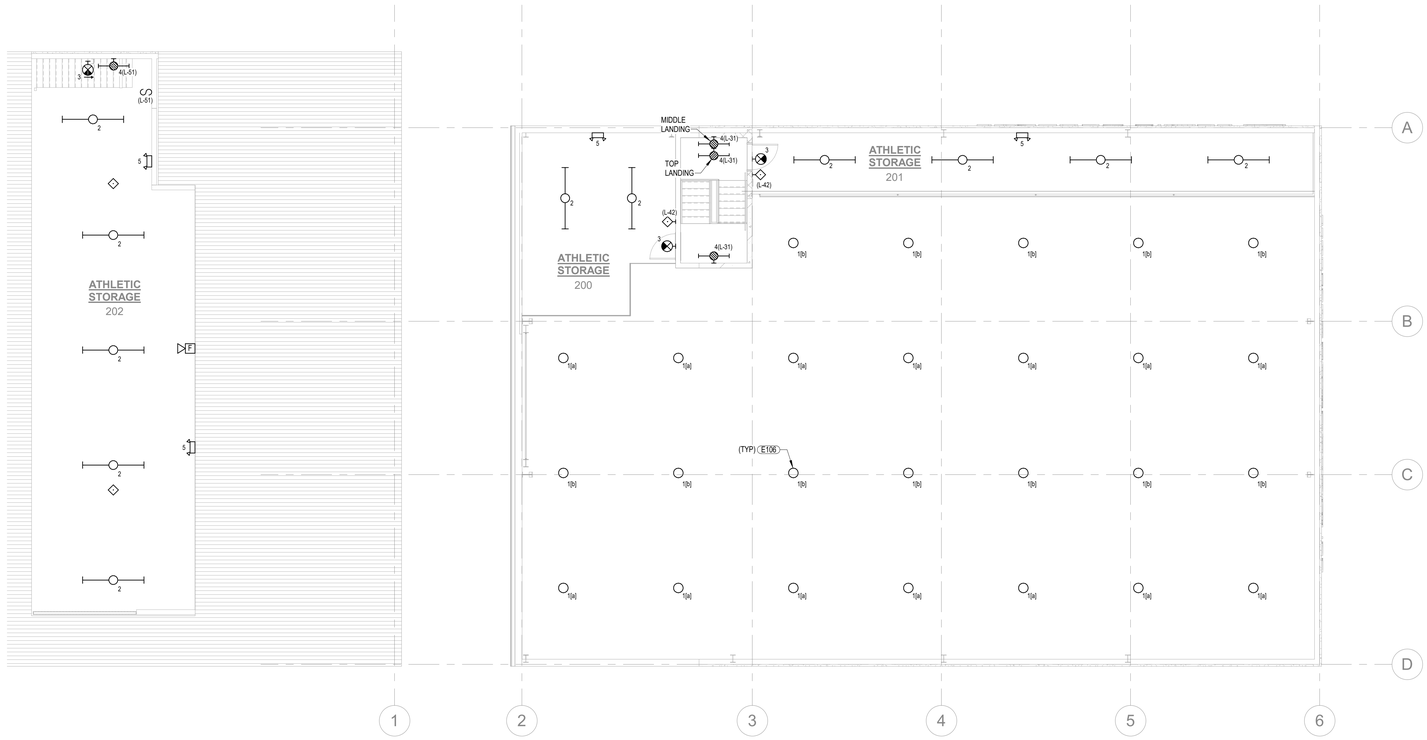
KEYNOTES

E106 SEE SHEET E1-0 FOR SWITCHING.



1 E1-1 UPPER LEVEL - LIGHTING

1/8" = 1'-0" 0' 8' 16'

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UPPER LEVEL - LIGHTING

E1-1

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

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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.

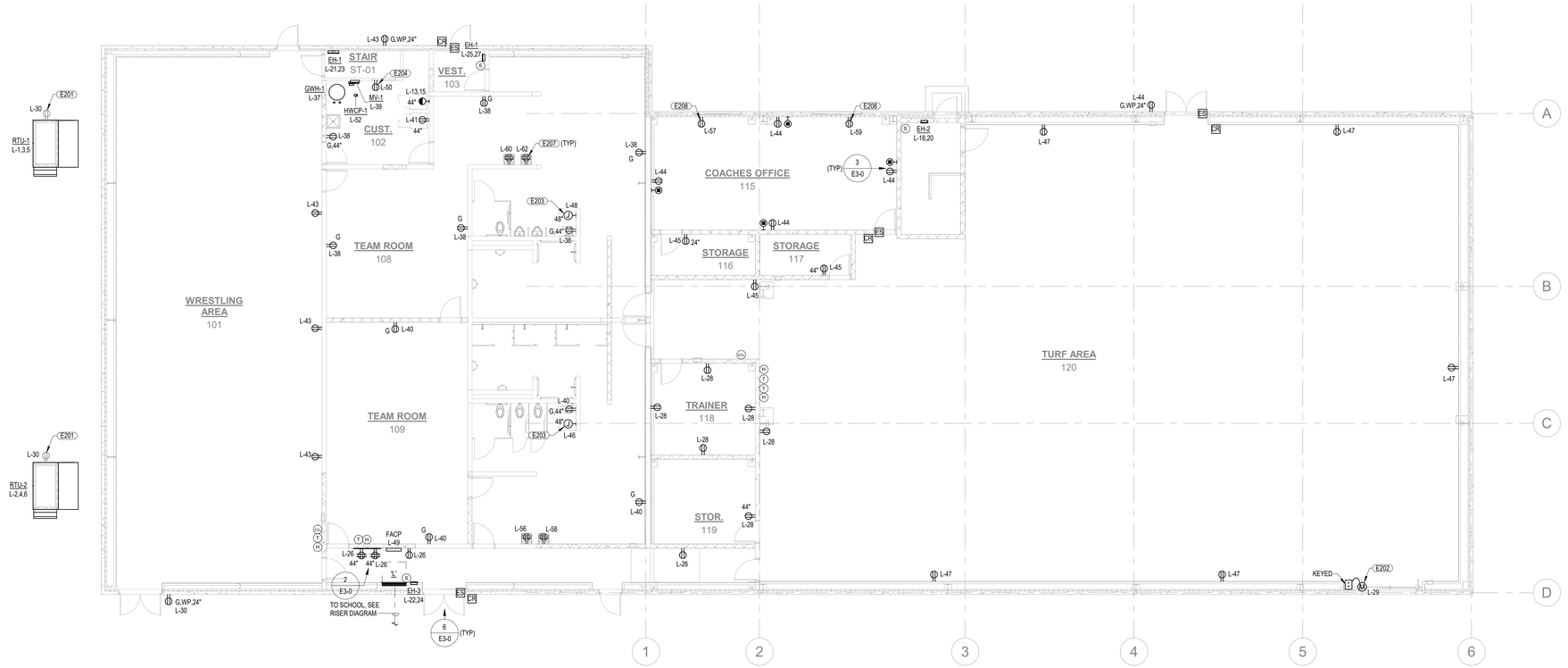
E202 PROVIDE FINAL CONNECTION TO AUTOMATIC DOOR OPERATOR AND INTERLOCK WITH ALL ASSOCIATED PUSHBUTTONS AND MOTION SENSING APPURTENANCES. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

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 20/1 GFCI TYPE CIRCUIT BREAKER.

E208 COORDINATE LOCATION OF FRIDGES WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.



1 E2-0 FIRST FLOOR - POWER

1/8" = 1'-0" 0" 8' 16'

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FLOOR PLAN - POWER

E2-0

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-05
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KEYNOTES

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

1/8" = 1'-0" 0' 8' 16'

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ROOF PLAN/UPPER LEVEL - POWER

E2-1

CONSTRUCTION DOCUMENTS
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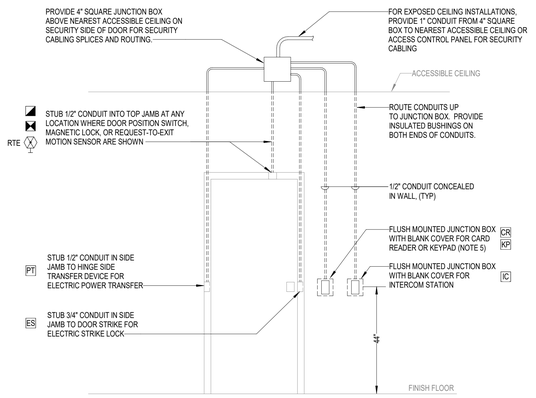
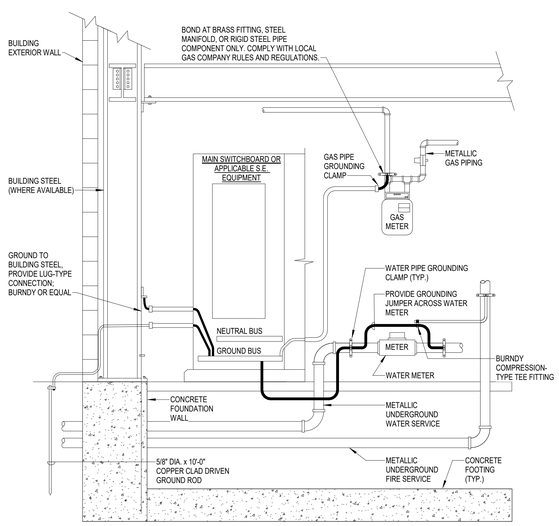


NOTES:

1. ROUGH-IN REQUIREMENTS AND LOCATIONS SIMILAR FOR DOUBLE DOORS.
2. NOT ALL DEVICES ROUGHED IN AT ALL DOORS, SEE PLANS FOR SPECIFIC DOOR ROUGH-IN REQUIREMENTS.
3. COORDINATE ACCESS CONTROL ROUGH-IN REQUIREMENTS WITH ARCHITECTURAL DOOR SCHEDULES AND SECURITY CONTRACTOR.
4. 'M' DENOTES MULLION MOUNTED DEVICE. PROVIDE CONDUIT PATHWAY DOWN TO DOOR FRAME MULLION IN LIEU OF WALL.
5. MAINTAIN A MINIMUM OF 12" PHYSICAL SEPARATION WHERE CARD READERS ARE SHOWN ON BACK-TO-BACK WALLS.

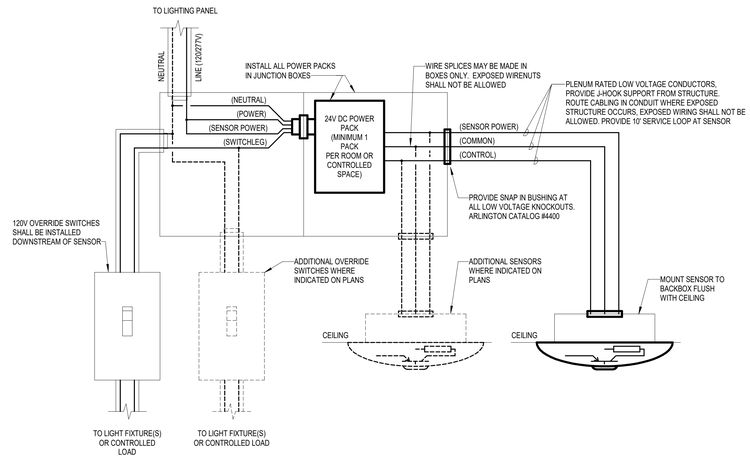
6 E3-0 ACCESS CONTROL ROUGH-IN DETAIL
NOT TO SCALE



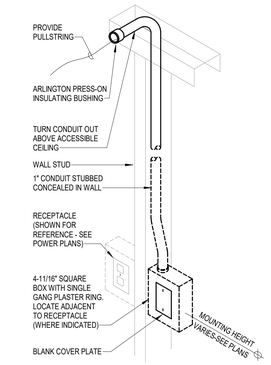
NOTES:

1. PHYSICAL LAYOUT SHOULD BE DETERMINED FROM FLOOR PLAN DRAWINGS AND FIELD DIMENSIONS.
2. ALL GROUNDING CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 250.66.
3. ALL CLAMPS AND FITTINGS SHALL BE UL LISTED FOR THE APPLICATION.

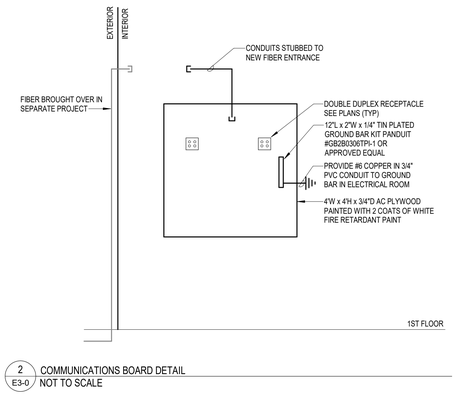
5 E3-0 MAIN SERVICE GROUNDING DETAIL
NOT TO SCALE



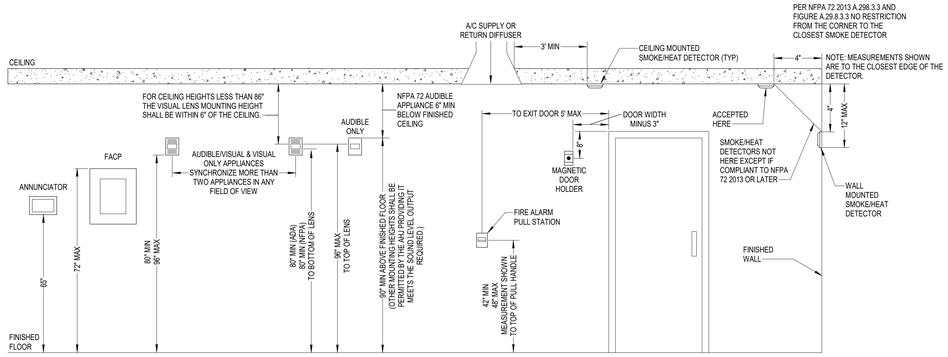
4 E3-0 TYPICAL STAND ALONE TYPE OCCUPANCY SENSOR ROOM CONNECTION DETAIL
NOT TO SCALE



3 E3-0 DATA/COMM ROUGH-IN DETAIL
NOT TO SCALE



2 E3-0 COMMUNICATIONS BOARD DETAIL
NOT TO SCALE



1 E3-0 FIRE ALARM MOUNTING DETAIL
NOT TO SCALE

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ELECTRICAL DETAILS

E3-0

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LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LIGHT SOURCE			ELECTRICAL		FINISH	MOUNTING	ACCEPTABLE MANUFACTURERS	REMARKS
				SPEC.	CCT	TYPE	LOAD	VOLTS				
1	HIGHBAY	LITHONIA	CPRB ALO14 UVOLT SWW9 80CRI DWH	27,000 LM	4000 K	LED	195 W	208 V	WHITE	SUSPENDED	NOTE 1	NOTE 4
2	8' LED STRIPLIGHT	LITHONIA	CSS L96 10000LM MVOLT MIN10 ZT 40K 80CRI	10,000 LM	4000 K	LED	74 W	120 V	WHITE	SURFACE/SUSPENDED	NOTE 1	
3	EXIT SIGN	LITHONIA	LQM S BBS RG MVOLT EL SD	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	2 W	120 V	WHITE	NOTE 3	NOTE 1	
4	WALL BRACKET	LITHONIA	WL4 40L GZ10 LP840 DIM50	4,000 LM	4000 K	LED	40 W	120 V	WHITE	WALL	NOTE 1	
5	LED BATTERY LIGHT	LITHONIA	ELM2L	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	2 W	120 V	WHITE	SURFACE/WALL	NOTE 1	
6	EXTERIOR WALL PACK	LITHONIA	ARC1 LED P3 40K MVOLT E4WH PE DBLXD	3,000 LM	4000 K	LED	25 W	120 V	BLACK	WALL	NOTE 1	
7	2x4 FLAT PANEL	LITHONIA	CPX 2X4 80CRI 40K SWL MIN10 ZT MVOLT	5,000 LM	4000 K	LED	42 W	120 V	WHITE	RECESSED	NOTE 1	
8	PARKING WALL PACK	LITHONIA	TWPX2 LED P3 40K MVOLT PE DBLXD	5,050 LM	4000 K	LED	39 W	120 V	BLACK	WALL	NOTE 1	
9	LINEAR ADJUSTABLE WALL WASH	SPI	SEW12146 CUST_OUT_6FT_8,000LU SH 120-277V 4000K DF_90+HE DF_MCS PSE RUN 40/48 DF_FT OAP 18" PT11	8,000 LM	4000 K	LED	80 W	120 V	BLACK	WALL	NOTE 2	NOTE 5

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 TIMECLOCK AND DIMMER SWITCH. RUN CIRCUIT THROUGH TIMECLOCK CONTROLS AND DIMMER SWITCH. FINE TUNE LIGHT OUTPUT WITH OWNER AND ARCHITECT.

ELECTRIC HEAT SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTAGE	PHASE	REMARKS
EH-1	KING	EFW2040-MW	2000 VA	208 V	1	NOTE 1,2
EH-2	KING	EFW2040-MW	3000 VA	208 V	1	NOTE 1,2
EH-3	KING	EFW2040-MW	4000 VA	208 V	1	NOTE 1,2

NOTES:

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

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

PLAN TAG	VOLTAGE	PHASE	DISCONNECT	WIRE AND CONDUIT	REMARKS
EF-1	120 V	1	INTEGRAL	2#12,#12G-1/2"C	NOTE 1
EF-2	120 V	1	INTEGRAL	2#12,#12G-1/2"C	NOTE 1
GWH-1	120 V	1	TOGGLE	2#12,#12G-1/2"C	
HWCP-1	120 V	1	TOGGLE	2#12,#12G-1/2"C	
MV-1	120 V	1	TOGGLE	2#12,#12G-1/2"C	
RTU-1	208 V	3	INTEGRAL	3#3,#8G-1-1/4"C	
RTU-2	208 V	3	INTEGRAL	3#3,#8G-1-1/4"C	
RTU-3	208 V	3	INTEGRAL	3#3,#8G-1-1/4"C	
RTU-4	208 V	3	INTEGRAL	3#3,#8G-1-1/4"C	

NOTES:

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

LIGHTING PANEL SCHEDULE

Panel: L
Rating: 400 A
Mounting: RECESSED
Type: MCB W/GND. BAR
Integral SPD: YES

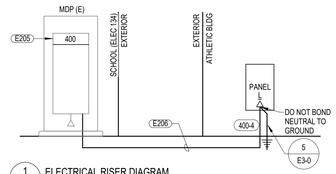
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
				1				2				
RTU-1		80	3	3				4	3	80		RTU-2
				5				6				
RTU-3		80	3	7				8				
				9				10	3	80		RTU-4
				11				12				
DRYER	G	30	2	13				14	2	20		LTG - TURF
				15				16				
LTG - TURF		20	2	17				18	2	20		EH-2
				19				20				
EH-1		20	2	21				22	2	25		EH-3
				23				24				
EH-1		20	2	25				26	1	20		REC - PHONE BAORD
				27				28	1	20		REC - SOUTH STOR./TRAINER
OVERHEAD DOOR		20	1	29				30	1	20		REC - SOUTH MECHANICAL...
LTG - STAIRWELL		20	1	31				32	1	20		LTG - EAST
LTG - WEST		20	1	33				34	1	20		LTG - EXTERIOR SIGNS
LTG - SOUTH		20	1	35				36	1	20		EF-1
GWH-1		20	1	37				38	1	20		REC - LOCKER ROOMS
MV-1		20	1	39				40	1	20		REC - LOCKER ROOMS
WASHER	G	20	1	41				42	1	20		LTG - MEZZANINE
REC - WRESLTING		20	1	43				44	1	20		REC - COACHES OFFICE
REC - NORTH STORAGE		20	1	45				46	1	20		PWR - HAND DRYER
REC - TURF AREA		20	1	47				48	1	20		PWR - HAND DRYER
FACP	L	20	1	49				50	1	20	G	REC - ICE MAKER
LTG - MEZZANINE		20	1	51				52	1	20		HWCP-1
LTG - EXTERIOR WALLPACKS		20	1	53				54	1	20		EF-2
REC - ROOFTOP		20	1	55				56	1	20	G	EWC
REC - FRIDGE	G	20	1	57				58	1	20	G	EWC
REC - FRIDGE	G	20	1	59				60	1	20	G	EWC
SPARE		20	1	61				62	1	20	G	EWC
SPARE		20	1	63				64	1	20		SPARE
SPARE		20	1	65				66	1	20		SPARE
SPARE		20	1	67				68	1	20		SPARE
SPARE		20	1	69				70	1	20		SPARE
SPACE		--	1	71				72	1	--		SPACE
SPACE		--	1	73				74	1	--		SPACE
SPACE		--	1	75				76	1	--		SPACE
SPACE		--	1	77				78	1	--		SPACE
SPACE		--	1	79				80	1	--		SPACE
SPACE		--	1	81				82	1	--		SPACE
SPACE		--	1	83				84	1	--		SPACE

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
Notes:

COPPER FEEDER SCHEDULE

FEEDER	WIRE AND CONDUIT
400-4	4-600 KCMIL, #3 G - 4"C.



1 / E4-0 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

KEYNOTES

E205 PROVIDE NEW 400/3 CIRCUIT BREAKER IN EXISTING WESTINGHOUSE 'CDP SERIES' DISTRIBUTION PANEL.

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

BCDM architects

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ELECTRICAL SCHEDULES

E4-0

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

MEI PROJECT NO: 25612

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note:
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at 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.