LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

BCDM NO: 5551-00

PROJECT TEAM

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CODES:

2015 International Building Code
2021 Uniform Plumbing Code
2021 International Mechanical Code
2020 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:
3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

VICINITY MAP
NOT TO SCALE

SCHEDULE OF DRAWINGS

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NOTE: THIS SHEET ORIGINALLY PRINTED IN COLOR

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LICENSED PROFESSIONAL ENGINEER — CALEB M SNYDER 27830 — IOWA

SIGNATURE 6/19/2025
PRINTED OF TYPED NAME: Caleb M. Snyder
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2026.
PAGES OR SHEETS COVERED BY THIS SEAL: sheets C0-1, C0-2, C1-1, C1-2, C1-3, C1-4, C1-5

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.
SIGN & DATE: 6/19/2025
PRINTED NAME: GREGORY S. STIEREN
LICENSE NUMBER: 07744
MY LICENSE RENEWAL DATE IS JUNE 30: 2027
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LICENSED PROFESSIONAL ENGINEER — JAMES F LANGE 20084 — IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
JAMES F LANGE, SE 6/19/25
LICENSE NUMBER: 20084
LICENSE RENEWAL DATE: DECEMBER 31, 2025
PAGES / SHEETS / DIVISIONS COVERED BY THIS SEAL:
S1-1, S1-2, S2-1, S2-2, S3-1

LICENSED PROFESSIONAL ENGINEER — MATTHEW MERRILL SARGENT P21077 — IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
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License Number P21077
My license renewal date is December 31, 2025
Pages or sheets covered by this seal:
M0-0, MD1-1, M1-1, M2-1, M3-1, M4-0, M5-0

LICENSED PROFESSIONAL ENGINEER — MARY R WURST P22287 — IOWA

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
MARY R. WURST 06/19/2025 (date)
License Number 22287
My license renewal date is December 31, 2025
Pages or sheets covered by this seal:
E0-0, E0-1, ED1-1, E1-1, E2-1, E6-0

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

COVER SHEET

G0-0

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

6/19/2025 10:22:28 AM

NOTE: THIS SHEET ORIGINALLY PRINTED IN COLOR

CODE REVIEW ANALYSIS

APPLICABLE CODES:

2015 International Building Code
2021 Uniform Plumbing Code
2021 International Mechanical Code
2020 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:

ADDITION & RENOVATION, TYPE 'II-B'

USE & OCCUPANCY CLASSIFICATION:

'E' OCCUPANCY WITH 'B' OCCUPANCY AS ACCESSORY OCCUPANCY
82,842 SQUARE FEET TOTAL

BUILDING WILL BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM

STRUCTURAL FIRE PROTECTION:

CONSTRUCTION CLASSIFICATION - 'II-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	0 HOURS*

* (TABLE 602)

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 2012 INTERNATIONAL FIRE CODE SECTION 907.2.3

2018 INTERNATIONAL EXISTING BUILDING CODE

TYPE OF ALTERATION

ADDITION, *ALTERATION LEVEL 2*

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 DETAIL *1/G0-1 - CODE REVIEW PLAN, THIS SHEET.*

ALL NEW BUILDING ELEMENTS AND MATERIALS TO COMPLY WITH CHAPTER 8 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.

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

RENOVATION TO ANY EXISTING STRUCTURE WILL COMPLY WITH SECTIONS 706, 806 AND 906, 2018 IEBC. *SEE SHEET S2-2 - FRAMING PLAN.*

ENERGY CONSERVATION - SECTION 907

THE BUILDING WILL COMPLY WITH 2018 INTERNATIONAL ENERGY CONSERVATION CODE AND SECTIONS 707, 807, 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 2021 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.*

REROOFING

THE BUILDINGS EXISTING ROOFING *WILL BE MAINTAINED. PATCHING AND NECESSARY REPAIR WILL OCCUR DUE TO ROOFTOP MECHANICAL WORK AND WILL COMPLY WITH SECTION 705, 2018 IEBC.*

AREA OF WORK

'E' WITH ACCESSORY OCCUPANCY
TYPE II-B CONSTRUCTION (LCS TYPE II - 000)
SPRINKLED
1 STORY ABOVE GRADE PLANE BASE HEIGHTS AND AREAS:

WORK CLASSIFIED PER NFPA 101 SECTION 43.2.2.1.4: ADDITION & MODIFICATION

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

TYPE 'II-B' CONSTRUCTION WITH 'E' OCCUPANCY:

HEIGHT MODIFICATIONS (TABLE 504.3):

MAXIMUM BUILDING HEIGHT IS 75'-0" > 31'-4" ACTUAL HEIGHT

AREA MODIFICATIONS:

BASE ALLOWABLE AREA FOR 'E' OCCUPANCY IN TYPE 'II-B' CONSTRUCTION IS 58,000 SF FOR A SPRINKLERED, SINGLE STORY BUILDING.

MAXIMUM AREA PER STORY = 58,000 SF > 8,554 SF ACTUAL AREA

EXITING ANALYSIS OF RENOVATION / ADDITION:

OCCUPANT LOAD (PER TABLE 1004.5 AND 1004.4) = '111' OCCUPANT MAXIMUM

2 EXITS REQUIRED < 5 EXITS PROVIDED

TOTAL WIDTH REQUIRED (PER SECTION 1005) = 0.2 INCHES X 111 = 22.2 INCHES

6 (32") = 192" PROVIDED > 22.2" REQUIRED

MAXIMUM EXIT DISTANCE ALLOWED (PER TABLE 1017.2) =
200'-0" ALLOWED > 138'-10" PROVIDED

MAXIMUM COMMON PATH OF TRAVEL ALLOWED (PER TABLE 1006.2.1) =
75'-0" ALLOWED > 63'-5" PROVIDED

MAXIMUM DEAD END CORRIDOR DISTANCE (PER 1020.4) =
50'-0" ALLOWED > 8'-9" PROVIDED

NO WORK IN THIS AREA

NO WORK BEING PERFORMED IN THIS ZONE.

CODE REVIEW LEGEND:

2-HOUR RATED FIRE WALL, OPENINGS NOT TO EXCEED 25% OF LENGTH OF THE WALL
- 90 MIN. DOORS
- 120 MIN. SIDELIGHTS/TRANSOMS AND WINDOW ASSEM.

EXISTING 2 HOUR FIRE WALL

EXISTING 1 HOUR FIRE RATING

EXIT

EXIT ACCESS

EXIT - DIRECT EXITING TO EXTERIOR

1 G0-1 CODE REVIEW PLAN - MAIN LEVEL
1/8" = 1'-0" 0' 16' 32'

TRUE NORTH PLAN NORTH

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

CODE REVIEW PLAN - MAIN LEVEL

G0-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

EXISTING

AIR	AIR AIR AIR	SANITARY CLEAN OUT	CO	WATER WARNING SIGN	
BUILDING OVERHANG		SANITARY MANHOLE	S	AUTO SPRINKLER BUILDING	
CABLE	CA CA CA CA	SEWER WARNING SIGN		FIRE HYDRANT	
CONDUIT		SEPTIC TANK	S	POST INDICATOR VALVE	
CONSTRUCTION FENCE	CF CF CF CF	AREA INLET ROUND		YARD HYDRANT	
CREEK FLOW LINE		AREA INLET SQUARE		IRRIGATION CONTROL VALVE	
CREEK FLOW DIRECTION		GRATE INLET		IRRIGATION SPRINKLER HEAD	
DRAIN TILES	DR DR DR DR	GRATE INLET W/ HOOD		WELL	
ELECTRIC	E E E E	STORM MANHOLE	D	MONITORING WELL	W
EFF LINE	EFF EFF	STORM PIPE END		TABLE	
FENCE	X X X X	4' CURB INLET		SATELLITE DISH	
FENCE – BARBED WIRE		CURB INLET LEFT		MAILBOX	MB
FENCE – STEEL		CURB INLET RIGHT		MISCELLANEOUS POINT	
FENCE – WIRE		DOWN SPOUT/ROOF DRAIN	DS	VENT	V
FENCE – WOOD		FLARED END SECTION		TOWER	
FIBER OPTICS	FO FO FO FO	CONTINUE SYMBOL		PROPANE TANK	P
FLOOD PLAIN	FP FP FP FP	CABLE MANHOLE	C	FLAGPOLE	
FLOW ARROW		CABLE WARNING SIGN		AIR CONDITIONING UNIT	
FLOW LINE		CABLE PEDESTAL		DRINKING FOUNTAIN	
FORCE MAIN	FM FM FM FM	CABLE PULLBOX		BBQ PIT	BBQ
GAS	G G G G	LIGHT POLE		BENCH	
GRAVEL AND DIRT EDGE		YARD LIGHT		BOLLARD	
GUARD RAIL		GROUND LIGHT		BORE HOLE	
IRRIGATION	IRR IRR IRR	BLDG MOUNTED LIGHT		COLUMN ROUND	
MAIN DRAIN LINE	MD	STREET LIGHT		COLUMN SQUARE	
NON POTABLE WATER	NPW NPW NPW	POWER POLE		VACUUM	V
OIL	OIL OIL OIL	H STRUCTURE		TREE DECIDUOUS	
OIL AND GAS	O/G O/G O/G	H STRUCTURE W/ TRANSFORMER		TREE CONIFEROUS	
OVERHEAD POWER	OHP OHP OHP	ELECTRIC MANHOLE	E	BUSH	
OVERHEAD TELEPHONE	OHT OHT OHT	ELECTRIC METER		BOULDER	
OVERHEAD UTILITY	OHU OHU OHU	ELECTRIC PEDESTAL		ARROW LEFT	
POWER	P P P P	ELECTRIC PULLBOX		ARROW RIGHT	
RAILROAD TRACKS		ELECTRIC TRANSFORMER	E	ARROW STRAIGHT	
RAW WATER	RW RW RW	ELECTRIC VAULT	EV	STRIPING "ONLY"	ONLY
RECIRCULATION	RECIRC	ELECTRIC WARNING SIGN		BICYCLE STRIPING	
ROOF DRAIN	RD RD RD	GUY		HANDICAP SYMBOL	
SANITARY SEWER	SS SS SS	FIBER OPTIC MANHOLE	F	TRAFFIC SIGNAL	
STORM SEWER	ST ST ST	FIBER OPTIC PULL BOX		TRAFFIC SIGNAL PEDESTAL	
STREAM		FIBER OPTIC VAULT	FV	TRAFFIC SIGNAL PULL BOX	
TELEPHONE	T T T T	FIBER OPTIC PEDESTAL	F	PARKING METER	
UNDER DRAIN	UD UD UD	FIBER OPTIC WARNING SIGN		SIGN	
UNIDENTIFIED UTILITY	UU UU UU UU	FUEL TANK	F	STOP SIGN	STOP
UTILITY	U U U U	FUEL CAP	F	YIELD SIGN	
VEGETATION LINE		FUEL PUMP	F	RR CROSSING ARM	
WATER	W W W W	GAS CURB STOP		BENCHMARK	
WATERS EDGE		GAS MANHOLE	G	TEMPORARY BENCHMARK	
		GAS METER	G	ROW MARKER	R
		GAS VALVE		CONTROL POINT	
		GAS WARNING SIGN		MONUMENT FOUND	
		TELEPHONE MANHOLE	T	MONUMENT SET	
		TELEPHONE PEDESTAL		WITNESS CORNER	
		TELEPHONE PULLBOX		COMPUTED CORNER	
		TELEPHONE WARNING SIGN		SECTION CORNER TIE	
		UNIDENTIFIED MANHOLE	U	SECTION CORNER	
		UNIDENTIFIED UTILITY PEDESTAL			
		UNIDENTIFIED VALVE			
		UNIDENTIFIED PULLBOX			
		WATER CURB STOP			
		WATER MANHOLE	W		
		WATER METER	W		
		WATER VALVE			

RECORD

AIR	R-A R-A R-A
CABLE	R-CA R-CA R-CA
ELECTRIC	R-E R-E R-E
FIBER OPTIC	R-FO R-FO R-FO
GAS	R-G R-G R-G
SANITARY SEWER	R-SS R-SS R-SS
STORM SEWER	R-ST R-ST R-ST
TELEPHONE	R-T R-T R-T
UNDERGROUND POWER	R-UGP R-UGP R-UGP
UTILITY	R-U R-U R-U
WATER	R-W R-W R-W

PROPOSED

UTILITY

AIR	AIR AIR AIR AIR
CABLE	CA CA CA CA
CONDUIT	
CONSTRUCTION FENCE	CF CF CF CF
DRAIN TILES	DR DR DR
FENCE	X X X X
FENCE – BARBED WIRE	
FENCE – STEEL	
FENCE – WIRE	
FENCE – WOOD	
FIBER OPTICS	FO FO FO
FLOW ARROW	
FORCE MAIN [SINGLE LINE]	FM FM FM FM
FORCE MAIN [DOUBLE LINE]	8"FM
GAS	G G G G
GRAVEL AND DIRT EDGE	
IRRIGATION	IRR IRR IRR
LIMITS OF CONSTRUCTION	
NON POTABLE WATER	NPW NPW NPW
OIL	OIL OIL OIL
OIL AND GAS	O/G O/G O/G
POWER	P P P P
RAW WATER	RW RW RW
ROOF DRAIN	RD RD RD
SANITARY SEWER [SINGLE LINE]	SS SS SS
SANITARY SEWER [DOUBLE LINE]	8"SS
SANITARY SEWER SERVICE	8"SS
SANITARY SERVICE RISER	8"SS
STORM SEWER [SINGLE LINE]	ST ST ST
STORM SEWER [DOUBLE LINE]	18"ST
TELEPHONE	T T T T
UNDER DRAIN	UD UD UD
UTILITY	U U U U
WATER [SINGLE LINE]	W W W W
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 LDA LDA
FLOOD PLAIN	FP FP FP

DRAINAGE

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

EROSION CONTROL

EARTH BERM	EB EB EB EB
EARTH DIVERSION	ED ED ED ED
EROSION CONTROL LOG	ECL ECL ECL
FILL DIVERSION	FD FD FD FD
INTERCEPTOR DIKE	ID ID ID ID ID
INTERCEPTOR SWALE	
LEVEL SPREADER	> > >
LEVEL TERRACE	LT LT LT LT
SEDIMENT CONTROL LOG	SCL SCL SCL
SILT FENCE	SF SF SF SF
STRAW WATTLE	SW SW SW SW
TEMPORARY DITCH	TD TD TD 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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913.381.1570 (FAX)

DESIGNER / CHAPTER
JASON KASPAR
REVIEWER
BECCA HALL
PROJECT NUMBER
31181.11-000
DATE
06/19/2025

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

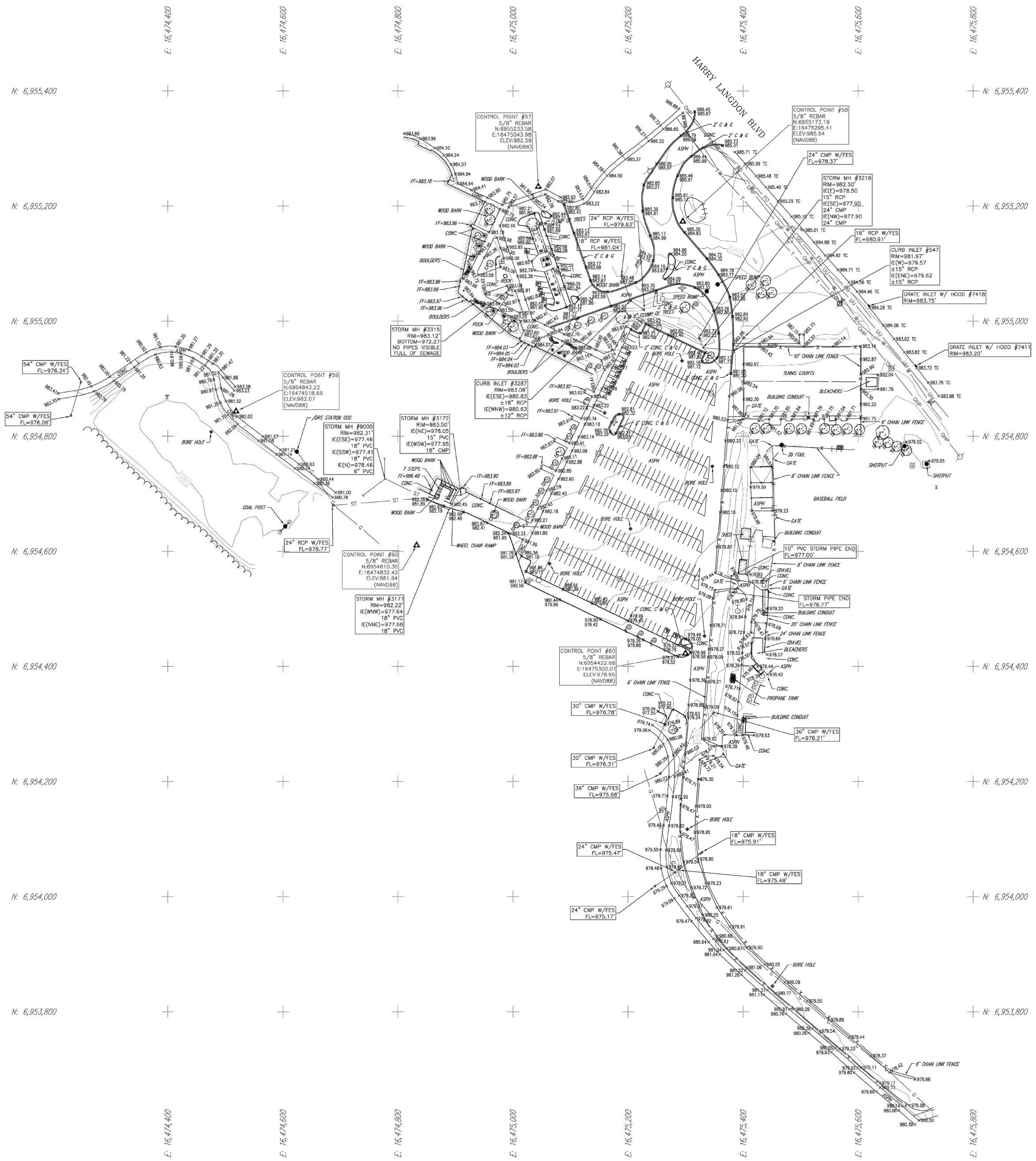
LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

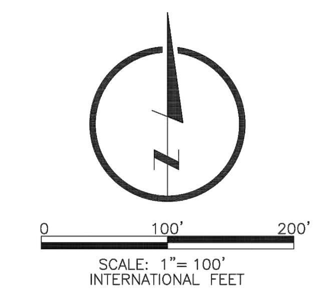
LEGEND

C0-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

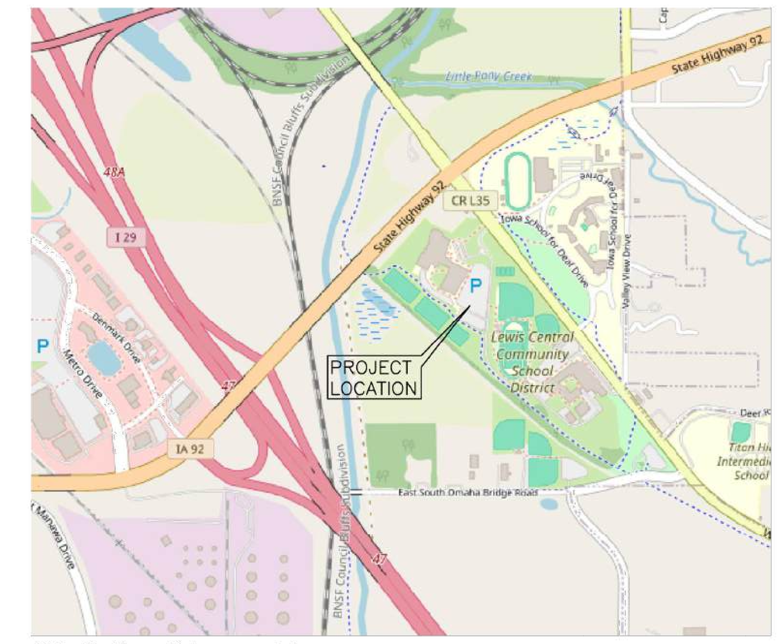
LEFT BINDING EDGE





LEGEND

ST	STORM SEWER
OHP	OVERHEAD POWER
FO	FIBER OPTICS
W	WATER
G	GAS
E	ELECTRIC
T	TELEPHONE
UU	UNIDENTIFIED UTILITY
	GRAVEL AND DIRT EDGE
X	FENCE
	VEGETATION LINE
	BUILDING
	BENCH
	BOLLARD
	BORE HOLE
	BOULDER
	COLUMN ROUND
	COLUMN SQUARE
	CONTROL POINT
	CURB INLET
	DECIDUOUS TREE
	ELECTRIC TRANSFORMER
	FLARED END SECTION
	FIBER OPTIC WARNING SIGN
	FIRE HYDRANT
	GRATE INLET W HOOD
	HANDICAP SYMBOL
	IRRIGATION CONTROL VALVE
	IRRIGATION SPRINKLER HEAD
	GROUND LIGHT
	LIGHT POLE
	YARD LIGHT
	MISC POINT (OBJECTS NOTED)
	POWER POLE
CO	SAN CLEANOUT
	SIGN
	STORM MANHOLE
	STORM PIPE END
	TELEPHONE PULLBOX
	UNIDENTIFIED MANHOLE
	WATER VALVE
	YARD HYDRANT
TC	TOP OF CURB



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VICINITY MAP

BENCHMARK NOTE

ELEVATIONS SHOWN WERE DETERMINED FROM THE IOWA REGIONAL LOW DISTORTION COORDINATE SYSTEM, ZONE 6, GEOID 12A, INTERNATIONAL FEET.

UTILITY NOTES

1. THIS DRAWING INCLUDES OBSERVED EVIDENCE OF SERVICES AND UTILITIES EVIDENT AT THE TIME OF SURVEY, RECORD LOCATIONS PROVIDED BY THOSE COMPANIES RESPONDING TO OUR REQUEST AND THOSE MARKED BY "ONE CALL**" LOCATORS. NO RESPONSIBILITY OR LIABILITY IS ASSUMED BY THE SURVEYOR FOR THE FAILURE TO SHOW ANY BURIED SERVICE AND/OR UTILITY LINES EVEN THOUGH THEY MAY EXIST. CONTACT "ONE CALL" (811) PRIOR TO ANY EXCAVATION ON THIS SITE.
**TICKET NO. 243441179, 243441253, 243441254, 243441255, 243441256, 243441257
DATED 12/19/2024

LAMP RYNEARSON

LAMPRYNEARSON.COM

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MO AUTH. NO.: E-2013011903 | LS-2019043127

TOPOGRAPHIC SURVEY

LEWIS CENTRAL HIGH SCHOOL
COUNCIL BLUFFS, IOWA

811 Know what's below. Call before you dig.

ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.

REVISIONS

DESIGNER / DRAFTER
TODD WHITFIELD/RACHEL RENNECKER
DATE
12/30/2024
PROJECT NUMBER
0124283.01–405
BOOK AND PAGE
10115#2, 7–12

SHEET
1 OF 1

L:\Engineering\0124283 LCCSD High School Parking Lot\SURVEY\DRAWINGS\BASE MODELS\0124283T001.dwg, 1/2/2025 11:36:08 AM, RACHEL RENNECKER, LAMP RYNEARSON

FOR INFORMATIONAL PURPOSES ONLY

THIS SURVEY WAS PREPARED FOR THE OWNER BY THE SURVEYOR INDICATED. IT IS INCLUDED FOR INFORMATIONAL USE ONLY. BCDM TAKES NO RESPONSIBILITY FOR ITS ACCURACY. DIRECT QUESTIONS TO THE SURVEYOR.

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ORIGINAL TOPOGRAPHIC SURVEY (FIPO)

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MO AUTH. NO.: E-2013011903 | LS-2019043127

DESIGNER / DRAFTER
JASON KASPAR
REVIEWER
BECCA HALL
PROJECT NUMBER
0125111–020
DATE
06/19/2025

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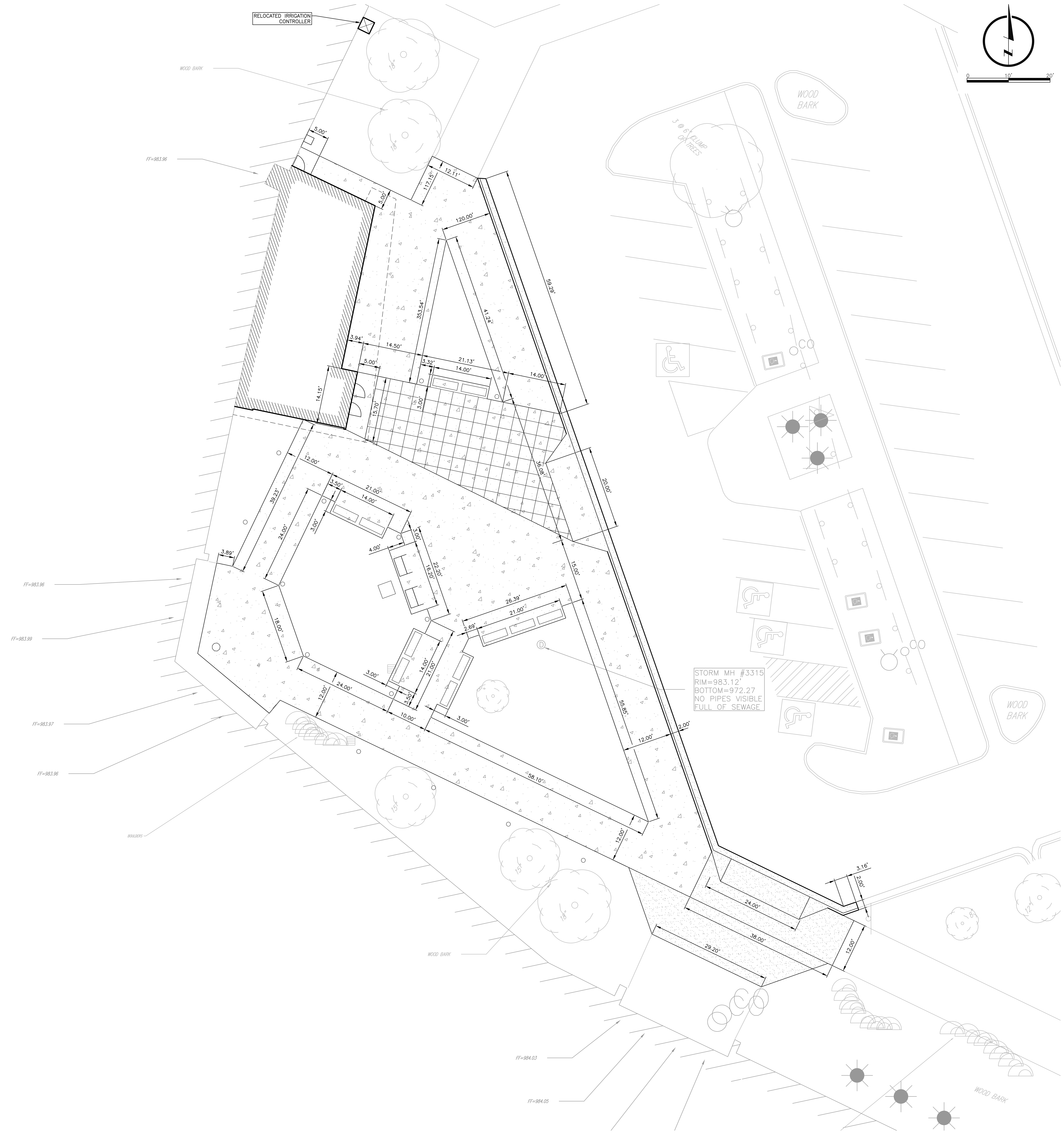
C0-2

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE



LOCATION MAP

LEGAL DESCRIPTION:	NE ¼ OF THE SW ¼, SECTION 7, T47N, R43W, COUNCILBLUFFS, IOWA		
	ZONING COMPLIANCE AND SITE PLAN REVIEW		
ADDRESS	3504 HARRY LANGDON BLVD.		
APPLICANT	LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT		
PHONE NUMBER	(712) 366-8248		
USE TYPE:	HIGH 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.	997,959 SF	
B. MINIMUM WIDTH	50 FEET	515 FEET	
C. MINIMUM DEPTH	100 FEET	990 FEET	
D. SETBACK			
FRONT YARD	25'	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	70'	EXISTING BUILDING
F. LOT COVER ALL STRUCTURES (%)	50%	14%	
G. PARKING REQUIREMENTS	1 SPACE PER CLASSROOM/1 SPACE PER 4 PERSON CAPACITY = 660 STALLS	526 SPACES	529 EXISTING STALLS
(SEE SECTION 15.23.030)			3 STALLS REMOVED
H. ACCESSIBLE PARKING (SEE SUDAS TABLE 8C-1.02)	11 SPACES	14 SPACES	

BUFFERYARD (SEE SECTION 15.23):

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

GENERAL NOTES

1. 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.
2. 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).
3. BARRICADES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
4. 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.
5. 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.
6. 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.
7. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PROPOSED UTILITY CONNECTIONS WITH THE ARCHITECTURAL CONSTRUCTION DOCUMENTS.
8. 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.
9. SEE PLAN SHEETS FOR ADDITIONAL NOTES.

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MO AUTH. NO.: E-2013011903 | LS-2019043127

DESIGNER / DRAFTER	JASON KASPAR
REVIEWER	BECCA HALL
PROJECT NUMBER	0125111-020
DATE	06/19/2025

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

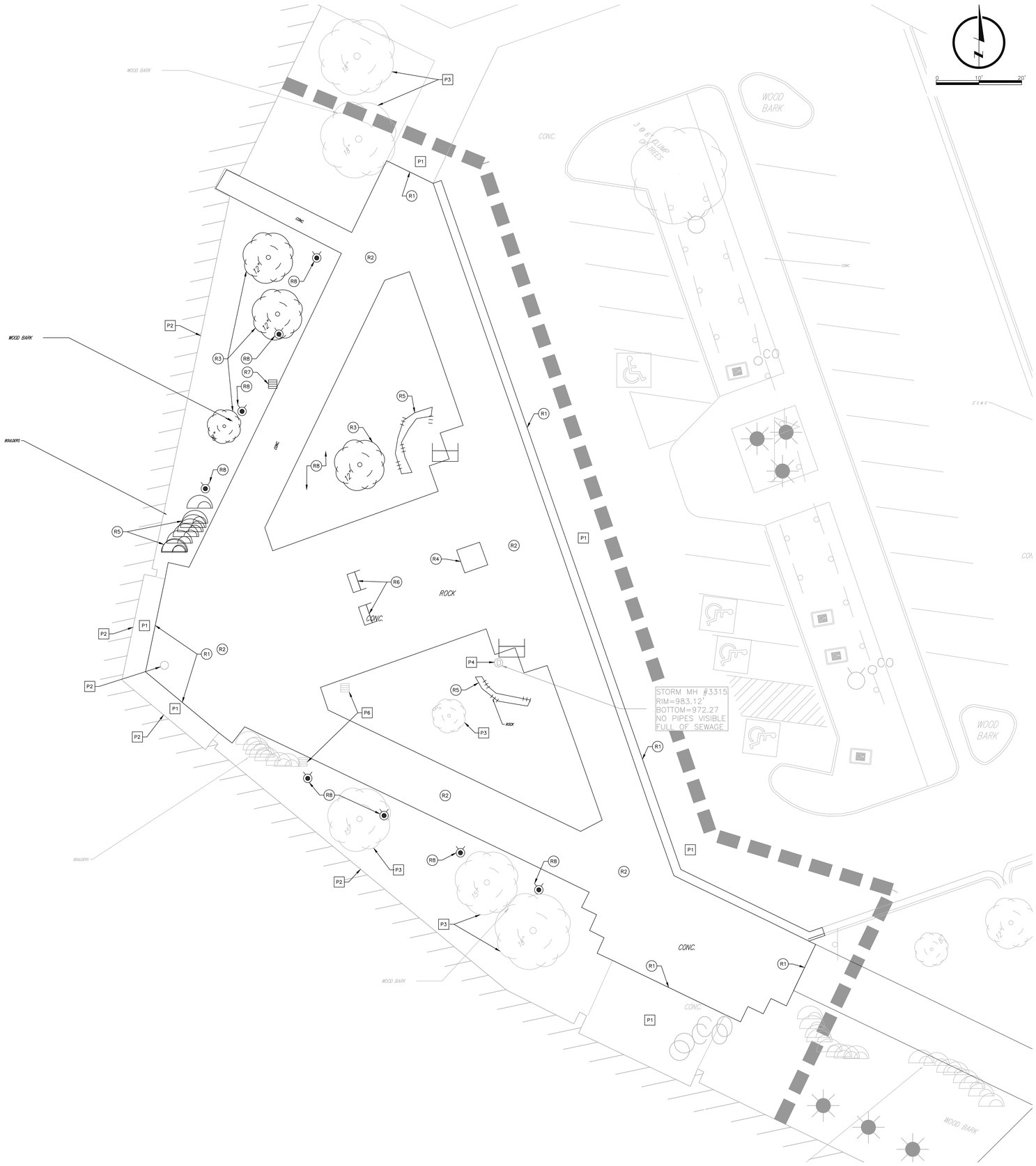
LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

SITE PLAN

C1-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

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.

REMOVAL KEYNOTES

R1 SAWCUT PAVEMENT, FULL DEPTH.
(NOT A SEPARATE PAY ITEM, INCIDENTAL TO PAVEMENT REMOVAL)

R2 REMOVE PAVEMENT.

R3 REMOVE TREE.

R4 REMOVE, AND SALVAGE MONUMENT STRUCTURE. SEE SHEET C1-4 FOR NEW LOCATION.

R5 REMOVE LANDSCAPE ROCK.

R6 REMOVE AND SALVAGE MEMORIAL BENCH. SEE SHEET C1-4 FOR NEW LOCATION.

R7 REMOVE IRRIGATION BOX AND ADJUST IRRIGATION SYSTEM AS NECESSARY.

R8 REMOVE LANDSCAPE LIGHTS. SEE PAVING PLANS FOR NEW BOLLARD LIGHT LOCATIONS. COORDINATE WITH ELECTRICAL PLANS FOR MORE INFORMATION.

PROTECT KEYNOTES

P1 PROTECT PAVEMENT.

P2 PROTECT BUILDING/STRUCTURAL COLUMNS.

P3 PROTECT TREE.

P4 PROTECT STORM SEWER STRUCTURE.

P5 PROTECT SIGN.

P6 PROTECT IRRIGATION STRUCTURE.

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

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JASON KASPAR
REVIEWER
BECCA HALL
PROJECT NUMBER
012511-000
DATE
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V:\Engineering\012511\1 LCCSD High School Building Addition\DRAWINGS\CONSTRUCTION DRAWINGS\012511-SITE-01.dwg, 6/19/2025 10:04:55 AM, JASON KASPAR, LAMP RYNEARSON

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

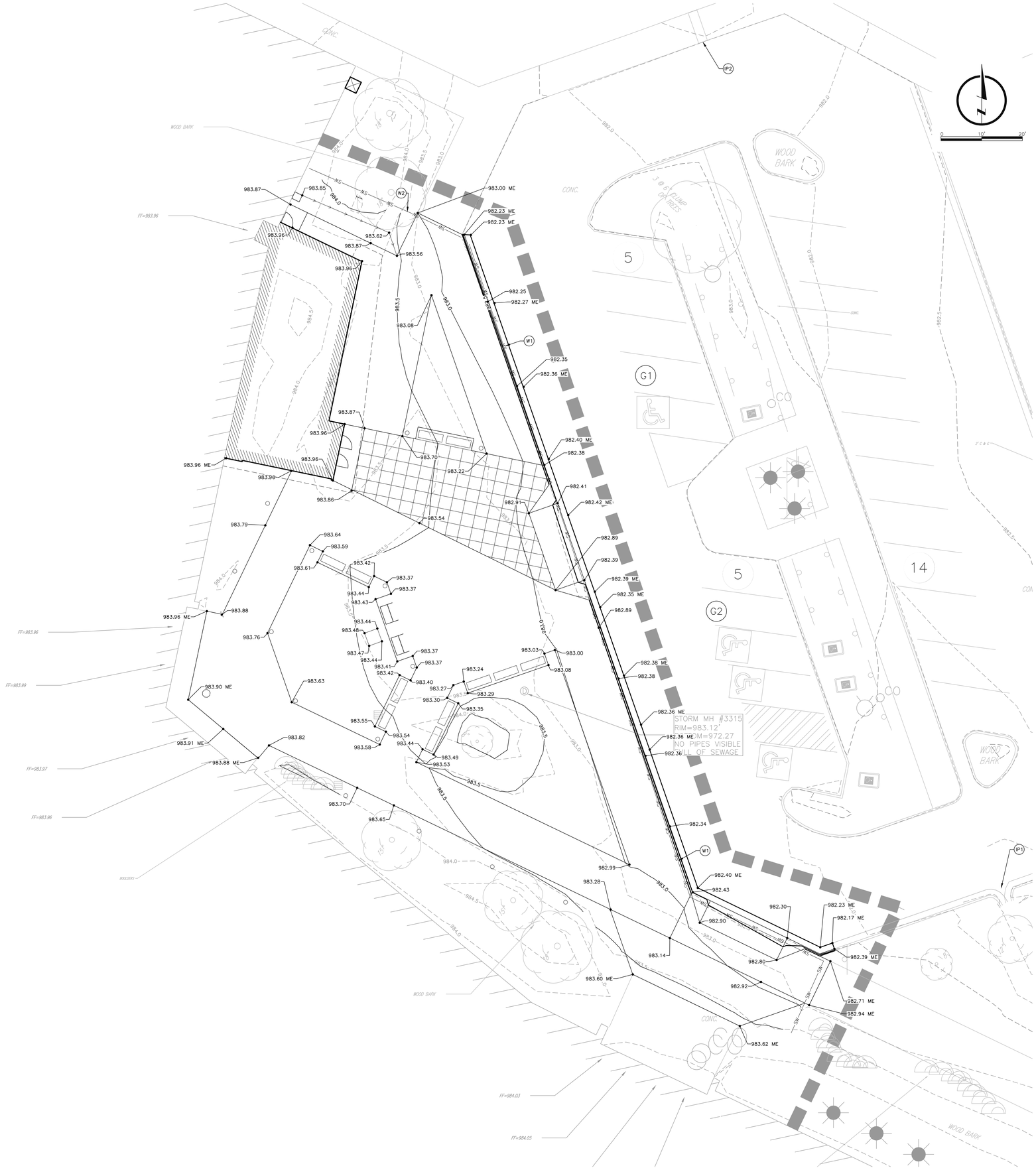
LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

REMOVAL PLAN

C1-2

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

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 45735–45330.

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 HIGH SCHOOL PAVEMENT REPLACEMENT		
PREPARED BY:	THIELE GEOTECH, INC 402–556–2171		
ENGINEER:	RAEANNA C.D. THIELE		
PROJECT NO:	24655.01		
DATED:	02/27/2025		
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.

EROSION CONTROL SUMMARY TABLE

TOTAL AREA OF SITE	22.91 AC.
DISTURBED AREA	0.28 AC.
EROSION CONTROL MEASURES:	SILT FENCE, ROCK ACCESS ROAD, INLET PROTECTION, AND SEEDING

(G) 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.

G1 CONSTRUCT TRACK OUT CONTROL IN ACCORDANCE WITH FIGURE 9040.120 OF THE SUDAS SPECIFICATIONS MANUAL.

G2 AS NECESSARY, CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES PER SECTION 9040 OF THE SUDAS SPECIFICATIONS MANUAL. SEPARATE PAYMENT SHALL NOT BE MADE FOR DUST CONTROL.

IP1–IP2 INSTALL AND MAINTAIN INLET PROTECTION IN ACCORDANCE WITH SECTION 9040 OF THE SUDAS SPECIFICATIONS MANUAL.

W1–W2 CONSTRUCT, MAINTAIN, AND CLEAN OUT WATTLE IN ACCORDANCE WITH FIGURE 9040.105 OF THE SUDAS SPECIFICATIONS MANUAL.

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1270 NORTH WINFIELD DRIVE, SUITE 100 (816) 347-8787

DESIGNER / DRAFTER
JASON_KASEWA
REVIEWER
BECCA_HALL
PROJECT NUMBER
012111–020
DATE
06/19/2025

L:\Engineering\012111 LCCSD High School Building Addition\DRAWINGS\CONSTRUCTION DRAWINGS\012111-GR1-01.dwg, 6/19/2025 10:04:57 AM, JASON_KASEWA, LAMP RYNEARSON

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

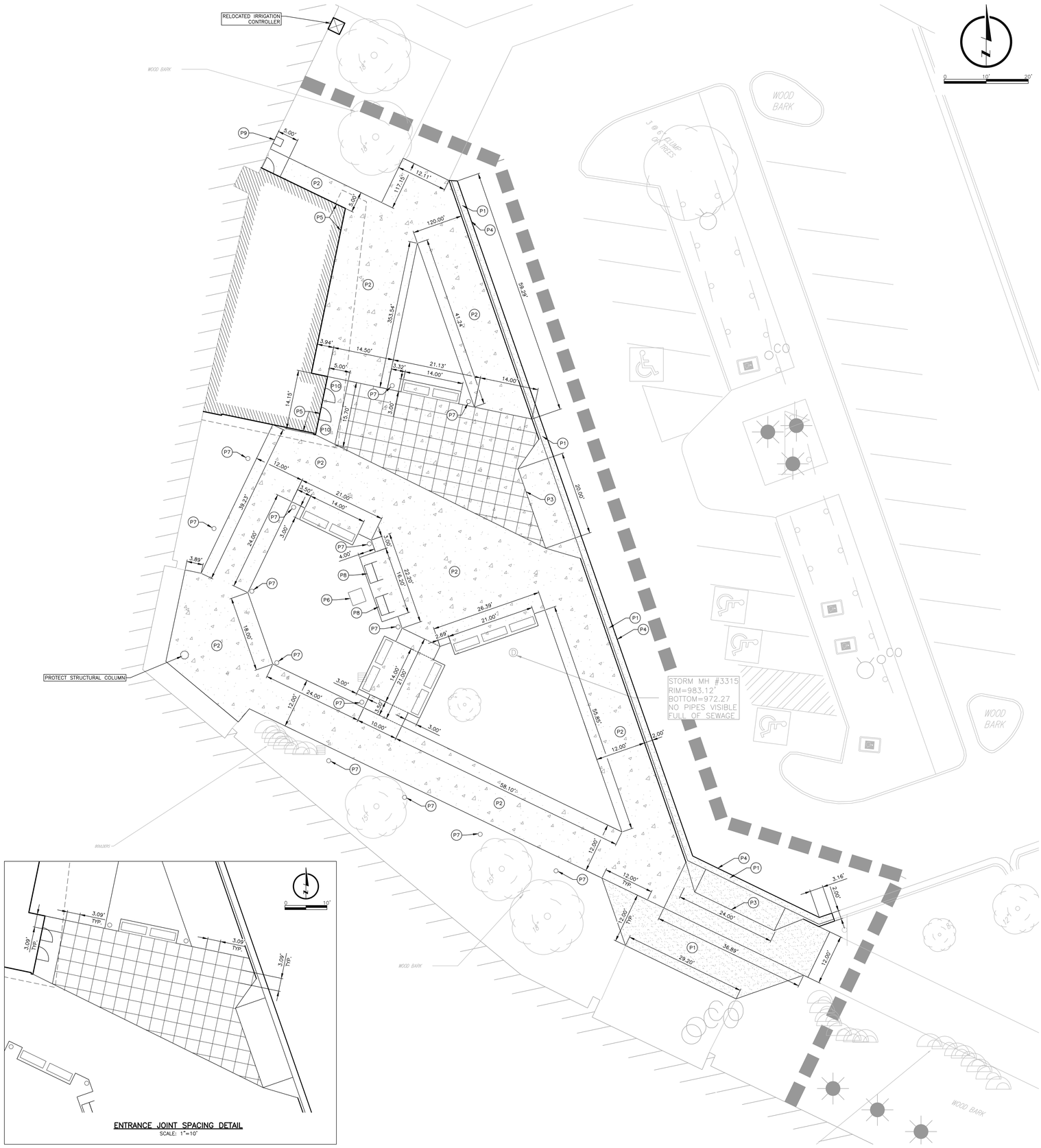
LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

GRADING PLAN

C1-3

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE



ENTRANCE JOINT SPACING DETAIL
SCALE: 1"=10'

PORTLAND CEMENT CONCRETE (PCC) PAVING NOTES

1. ALL PAVING ELEVATIONS ARE AT TOP OF SLAB UNLESS NOTED OTHERWISE.
2. INTEGRAL CURB SHALL BE INSTALLED AT THE LOCATIONS SHOWN BELOW AND IN ACCORDANCE WITH IOWA STANDARD URBAN DESIGN AND SPECIFICATIONS DIVISION 7 SECTION 7010 AND THE 2025 COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS.
3. PAVEMENT SUBGRADE TO A DEPTH OF 12 INCHES AND TO A WIDTH OF 2 FEET OUTSIDE PAVEMENT EDGES SHALL BE COMPACTED AS SPECIFIED IN THE COMPACTION REQUIREMENTS TABLE (SEE SHEET C1-3).
4. BACKFILL BEHIND CURBS SHALL BE COMPACTED TO A MINIMUM IN-PLACE DENSITY OF 90% OF "MAXIMUM DENSITY" AS DETERMINED IN ACCORDANCE WITH ASTM D 1557 (90% MODIFIED PROCTOR).
5. 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.
6. THE CONTRACTOR IS REFERRED TO THE FOLLOWING SUDAS FIGURES:

7010.101	CONCRETE PAVEMENT JOINTS
7010.102	CONCRETE CURBS
7010.901	PAVEMENT JOINTS
7010.902	CONCRETE PAVEMENT WIDENING
7010.904	TYPICAL JOINTING LAYOUT

7. CONCRETE MIX SHALL BE CV-SUD-C15 AS SHOWN IN THE IOWA D.O.T. I.M. 529 PROPORTION TABLE 4 (SUDAS CONCRETE MIXES) AND THE 2025 COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS.
8. JOINT PATTERNS
   A. THE MAXIMUM PANEL DIMENSION IN FEET IS EQUAL TO THE LESSER OF TWICE THE PAVEMENT THICKNESS IN INCHES OR FIFTEEN FEET.
   B. THE RATIO OF PANEL LENGTH TO WIDTH SHOULD NOT EXCEED 1.25:1.
11. PAVEMENT REMOVAL AND REPLACEMENT TO BE MADE TO TRANSVERSE JOINTS. JOINT TO BE RE-SAWED FULL DEPTH PRIOR TO REMOVAL. NEW PAVEMETN TO BE TIED TO THE EXISTING USING BT AND RT JOINTS AS PER SUDAS SECTION 7010. SEE FIGURE 7010.101. PCC FOR ALL ROADWAY PATCHING TO BE A C-4 MIX. PATCHES TO MATCH THE THICKNESS OF THE EXISTING PAVEMENT OR A MINIMUM THICKNESS OF 6", WHICHEVER IS GREATER. JOINTS IN NEW PAVING TO MATCH EXISTING PATTERN.

SIDEWALK NOTES

1. ALL SIDEWALKS SHALL BE IN ACCORDANCE WITH IOWA STANDARD URBAN DESIGN AND SPECIFICATIONS DIVISION 7 SECTION 7030 AND THE 2025 COUNCIL BLUFFS SUPPLEMENTAL SPECIFICATIONS.
2. SIDEWALK SUBGRADE TO A DEPTH OF 6 INCHES AND TO A WIDTH OF 6 INCHES OUTSIDE OF SIDEWALK EDGES SHALL BE COMPACTED AS SPECIFIED IN THE COMPACTION REQUIREMENTS TABLE. (SEE SHEET C1-3
3. BACKFILL SHALL BE COMPACTED AS SPECIFIED IN THE COMPACTION REQUIREMENTS TABLE. (SEE SHEET C1-3)
4. THE CONTRACTOR IS REFERRED TO THE FOLLOWING SUDAS FIGURES:

7030.201	SIDEWALK CONSTRUCTION
7030.202	CURB DETAIL FOR CLASS A SIDEWALK
7030.204	GENERAL FEATURES OF AN ACCESSIBLE SIDEWALK
7030.205	GENERAL SIDEWALK AND CURB RAMP DETAILS
7030.206	CURB RAMPS OUTSIDE OF INTERSECTION RADIUS
7030.207	CURB RAMP FOR CLASS B OR C SIDEWALK
7030.208	ALTERNATIVE CURB RAMP FOR CLASS B OR C SIDEWALK
7030.209	CONCRETE CURB RAMP FOR CLASS A SIDEWALK
7030.210	DETECTABLE WARNING PLACEMENT

(P) PAVING KEYNOTES

P1. CONSTRUCT 7" THICK PORTLAND CEMENT CONCRETE PAVEMENT WITH INTEGRAL CURB AND GUTTER.

P2. CONSTRUCT 5" THICK PORTLAND CEMENT CONCRETE SIDEWALK IN ACCORDANCE WITH SUDAS FIGURE 7030.201. SEE THIS SHEET FOR TYPICAL SIDEWALK SECTION.

P3. CONSTRUCT CURB RAMP IN ACCORDANCE WITH SUDAS FIGURE 7030.206.

P4. CONSTRUCT THICKENED EDGE AND INSTALL TIE-BARS TO EXISTING PAVEMENT. NO. 5 X 18" EPOXY-COATED TIE BARS @ 36" CENTERS TO BE DRILLED AND EPOXIED INTO EXISTING PAVEMENT. SEE NOTE THIS SHEET.

P5. CONSTRUCT 1/2" EXPANSION JOINT AND COLOR MATCHED SEALANT WHERE SIDEWALK ABUTS BUILDING FACE.

P6. RECONSTRUCTED MONUMENT STRUCTURE LOCATION. SEE STRUCTURAL AND ARCHITECTURAL PLANS FOR DETAILS. NEW MONUMENT FOOTING SHALL BE 10" BELOW FINISHED GRADES.

P7. LIGHTED BOLLARD LOCATION. SEE ELECTRICAL PLANS FOR MORE INFORMATION

P8. INSTALL SALVAGED MEMORIAL BENCHES.

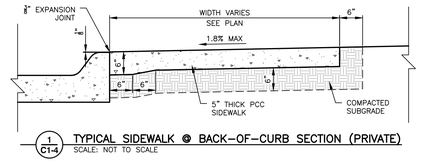
P9. INSTALL CONCRETE SPLASH BLOCK AT DOWNSPOUT. VERIFY LOCATION WITH MECHANICAL PLANS. SPLASH BLOCK SHALL BE MENARDS MODEL NUMBER 1794467 OR APPROVED EQUAL.

P10. STRUCTURAL STOOP, SEE ARCHITECTURAL PLANS FOR DETAILS.

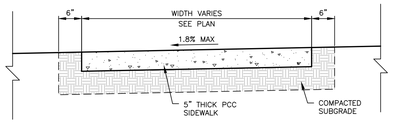
(PL) PLAZA KEYNOTES

PL1. CONSTRUCT BEVELED CONTROL JOINTS, TYPICAL OF ALL CONTROL JOINTS WITHIN THE LIMITS OF THE PLAZA SHOWN ON THE PLANS. JOINTS SHALL NOT EXCEED 1/2" TOTAL WIDTH. LAYOUT PER PLAN. PROVIDE ENGINEER AND LANDSCAPE ARCHITECT WITH FINAL JOINTING PLAN. JOINTS SHALL BE SEALED USING POLYURETHANE OR SILICONE JOINT SEALANT. SUBMIT SEALANT COLOR SELECTIONS TO ENGINEER AND LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO ORDERING.

PL2. FURNISH AND INSTALL 6' WIDTH PRECAST PCC BENCH – MODEL #TF5113 CONCRETE BENCH BY WAUSUA TILE, OR APPROVED EQUAL. BENCH FINISH SHALL BE A22 SAND. INSTALL PER MANUFACTURER'S SPECIFICATIONS. CONTACT WAUSAU TILE (800-388-8728, WTILE@WAUSAUTILE.COM) FOR ADDITIONAL INFORMATION. BENCHES SHALL BE SPACED 6" FROM EACH OTHER.



1 C1-4 TYPICAL SIDEWALK @ BACK-OF-CURB SECTION (PRIVATE)
SCALE: NOT TO SCALE



2 C1-4 TYPICAL SIDEWALK SECTION (PRIVATE)
SCALE: NOT TO SCALE

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REVIEWER
BECCA HALL
PROJECT NUMBER
012011-000
DATE
06/19/2025

V:\Engineering\012011\11 LCCSD High School Building Addition\DRAWINGS\CONSTRUCTION DRAWINGS\012011-SITE-01.dwg, 6/19/2025 10:44:52 AM, JASON KASPAR, LAMP RYNEARSON

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REVISION SCHEDULE

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LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

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Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

PAVING PLAN

C1-4

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
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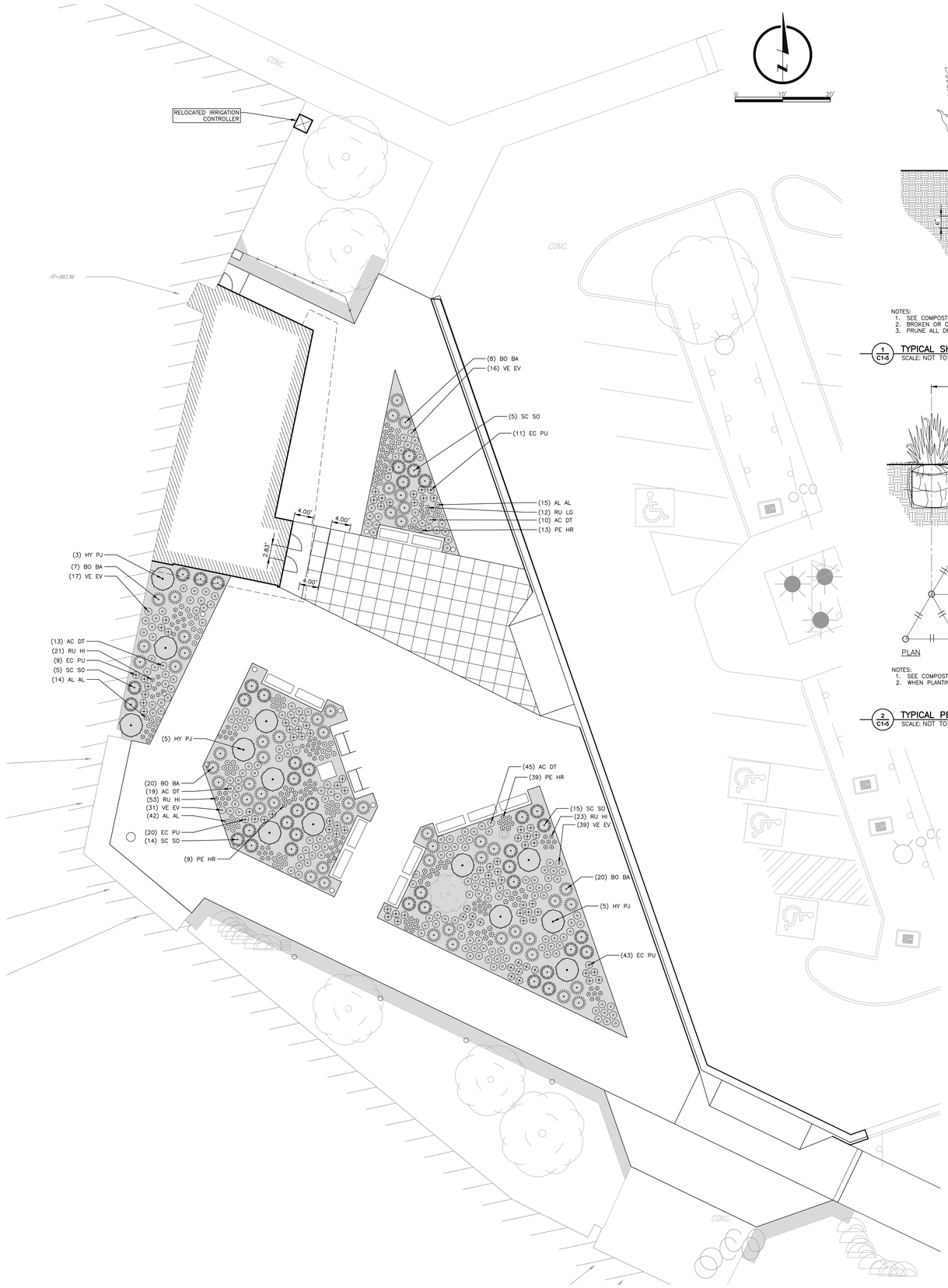
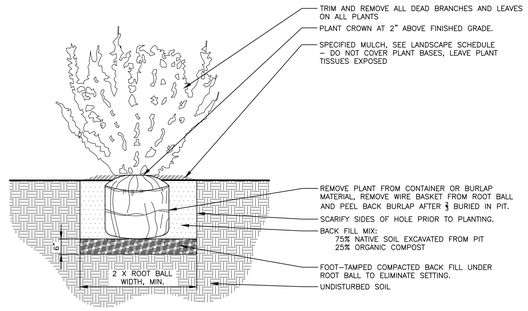
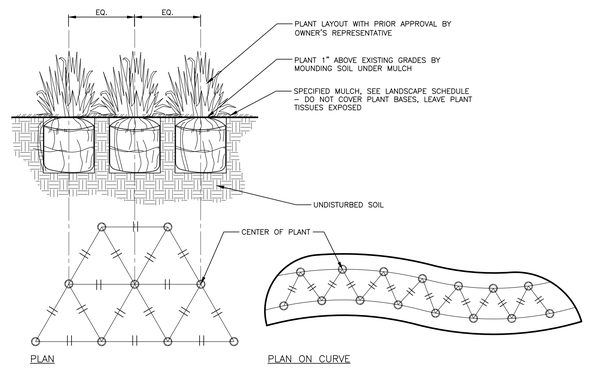




NOTES:
1. SEE COMPOST NOTES, SHEET LANDSCAPE NOTES AND SCHEDULES.
2. BROKEN OR CRUMBLING ROOT-BALLS WILL BE REJECTED.
3. PRUNE ALL DEAD OR DAMAGED WOOD PRIOR TO PLANTING, DO NOT PRUNE MORE THAN 20% OF LIMBS.

1 / C1-5 TYPICAL SHRUB PLANTING
SCALE: NOT TO SCALE



NOTES:
1. SEE COMPOST NOTES, SHEET LANDSCAPE NOTES AND SCHEDULES.
2. WHEN PLANTING A CURVE, ORIENT ROWS ALONG THE LONGEST AXIS OF AREAS WHERE PLANTS ARE MASSED.

2 / C1-5 TYPICAL PERENNIAL AND ORNAMENTAL GRASS PLANTING
SCALE: NOT TO SCALE

GENERAL NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL PROPOSED AND EXISTING VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PROPOSED LANDSCAPE IMPROVEMENTS WHEN CONFLICTS EXIST BETWEEN LANDSCAPE IMPROVEMENTS AND EXISTING OR PROPOSED UTILITIES OR SITE FEATURES SUCH AS WALKS, ROADS, BUILDINGS OR EXISTING TREES TO REMAIN.
3. VERIFY LOCATION OF ALL BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTS AND CONTRACTOR ENGINEER'S DRAWINGS.
4. ALL WORK PERFORMED WITHIN THE DRIP LINE OF TREES DESIGNATED "EXISTING TREES TO REMAIN" SHALL BE HAND LABOR.
5. REFERENCE TO NORTH REFERS TO TRUE NORTH, REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.
6. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
7. WHERE NOT SHOWN ON THE PLANTING PLANS, SEE CONTRACTOR ENGINEER'S AND ARCHITECT'S DRAWINGS FOR BUILDING FOUNDATIONS SETBACKS, BOUNDARIES, SUBSURFACE AND ABOVE GRADE UTILITIES.

PLANTING NOTES

1. INSTALL ALL TREES A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB, EDGE OF WALL, OR PAVING.
2. THE LOCATION OF ALL TREES SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION.
3. PLANT NAMES ARE ABBREVIATED ON THE DRAWINGS. SEE PLANT LIST FOR KEY AND CLASSIFICATION.
4. PLACE A 3" DEPTH LAYER OF TRIPLE SHREDDED HARDWOOD MULCH ON ALL PLANTING AREAS. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL. CHIPS OR BARK MULCH ARE NOT ALLOWED.
5. LOCATION OF ALL PLANTING IS DIAGRAMMATIC. DO NOT WILLFULLY LOCATE PLANTINGS WHERE CONFLICTS EXIST WITH UTILITIES OR THE BUILDING.
6. EXISTING AND IMPORTED SOIL FOR PLANTING AREAS SHALL BE FREE FROM CHEMICALS, CONSTRUCTION DEBRIS AND TRASH, ROCKS AND OTHER MATERIAL LARGER THAN ONE INCH IN DIAMETER.
7. STEEL EDGING AND SPADE-CUT EDGE PLACEMENT SHALL BE REVIEWED BY LANDSCAPE ARCHITECT PRIOR TO FINAL INSTALLATION. PROVIDE AN ALLOWANCE OF 5 PERCENT OF THE TOTAL LINEAL FOOTAGE OF EDGING TO BE CONSTRUCTED DURING THE PROGRESS OF WORK, AS MAY BE DIRECTED BY THE LANDSCAPE ARCHITECT, IN ADDITION TO ALL EDGING INDICATED ON THE DRAWINGS.
8. APPLY GRANULAR PRE-EMERGENT WEED CONTROL TO AREAS TO RECEIVE SHRUBS, GROUNDCOVERS, AND NON-LAWN ORNAMENTAL PLANTING AFTER INCORPORATING SOIL AMENDMENTS. THE CONTRACTOR SHALL PLACE TRIPLE SHREDDED HARDWOOD MULCH AT ALL LANDSCAPED ISLANDS NOT RECEIVING SOD.
9. PLANT QUANTITIES ARE SHOWN FOR THE CONVENIENCE TO THE CONTRACTOR. IF THERE ARE DISCREPANCIES BETWEEN THE PLAN AND NOTES, THE PLANS SHALL GOVERN.
10. ALL PLANTED AREAS TO BE AMENDED PER AN AGRICULTURAL/SOIL SUITABILITY TEST, PAID FOR BY OWNER. FOR BID PURPOSES CONTRACTOR SHALL ESTIMATE SPREADING SOIL AMENDMENT AT THE RATE OF 6 CUBIC YARDS PER 1,000 SQUARE FEET. TILL INTO THE TOP OF SOIL TO A MINIMUM DEPTH OF 6". RAKE TO A SMOOTH, EVEN SURFACE PER THE GRADING PLANS.

SCARIFIED AND CONDITIONED SOIL NOTES

1. ALL NON-PAVED AND NON-BUILDING DISTURBED AREAS SHALL BE SCARIFIED BY COMPLETELY BREAKING UP THE SOIL TO A MINIMUM DEPTH OF 12".
2. TILL AND CONDITION TOP 6" OF ALL AREAS TO RECEIVE LANDSCAPING.
3. USE AN ORGANIC COMPOST MEETING THE REQUIREMENTS SPECIFIED BELOW.
4. A THREE INCH DEEP LAYER OF COMPOST SHALL BE PLACED ON TOP OF ALL LANDSCAPE AREAS.
5. THE COMPOST SHALL BE TILLED INTO THE EXISTING SOIL TO A DEPTH OF SIX INCHES.

COMPOST NOTES

USE A COMPOST MEETING THE REQUIREMENTS OF THIS SECTION. MATERIAL SHALL BE WELL COMPOSTED, FREE OF WEED SEEDS AND STABILIZED WITH REGARD TO OXYGEN CONSUMPTION AND CARBON DIOXIDE GENERATION. COMPOST SHALL HAVE A MOISTURE CONTENT THAT HAS NO VISIABLE FREE WATER OR DUST PRODUCED WHEN HANDLING THE MATERIAL. ONE HUNDRED PERCENT OF THE MATERIAL MUST PASS THROUGH A HALF INCH SCREEN. MANUFACTURED INERT MATERIAL SHALL BE LESS THAN 1.0% BY WEIGHT.

	MIN	MAX
ORGANIC MATTER CONTENT	35%	65%
C/N RATIO	–	25:1
PH	6.0	8.0
BULK DENSITY (LBS/CF)	40	50

WARRANTY:

THE CONTRACTOR SHALL WARRANTY PLANT MATERIALS FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION, AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR. WARRANTY COVERS A MAXIMUM OF ONE REPLACEMENT PER ITEM.

CONTRACTOR QUALIFICATIONS

1. THE CONTRACTOR SHALL BE CERTIFIED AND HAVE AT LEAST 3 YEARS OF LANDSCAPING EXPERIENCE INSTALLING SIMILAR TYPES OF PROJECTS.

IRRIGATION NOTES

1. IRRIGATION CONTRACTOR TO PROVIDE DESIGN/BUILD IRRIGATION SYSTEM FOR AREAS TO BE IRRIGATED. IRRIGATION SYSTEM DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND OWNER FOR THEIR RECORDS.
2. ALL SODDED AREAS, PLANTING BEDS, AND INTERIOR ISLANDS WITHIN THE LIMITS OF THE PROJECT SHALL BE IRRIGATED.
3. CONTRACTOR TO COORDINATE LOCATION OF EXISTING VALVES, TIMERS AND HEADS WITH OWNER.
4. THE CONTRACTOR SHALL MODIFY THE EXISTING IRRIGATION SYSTEM, AS NECESSARY, WHILE MAINTAINING FUNCTIONALITY OF THE SYSTEM AT ALL TIMES THROUGHOUT CONSTRUCTION. MODIFICATIONS TO THE EXISTING SYSTEM MAY INCLUDE REMOVAL AND CAP, HORIZONTAL AND/OR VERTICAL ADJUSTMENT OF SERVICE LINES, SPRINKLER HEADS, JUNCTION BOXES, AND OTHER IRRIGATION SYSTEM COMPONENTS TO MAINTAIN FUNCTIONALITY OF THE SYSTEM THROUGH ALL UNDISTURBED AREAS AS NEEDED. COORDINATE WITH THE OWNER PRIOR TO MODIFYING IRRIGATION SYSTEM.
5. THE CONTRACTOR, AT COMPLETION OF CONSTRUCTION OR DURING LANDSCAPING OPERATIONS, SHALL MODIFY THE IRRIGATION SYSTEM TO PROVIDE COVERAGE ACROSS ALL IRRIGATED SOD AND TO PREVENT SPRINKLER HEADS FROM PASSING OVER ANY PAVED AREAS. COORDINATE WITH THE OWNER DURING SPRINKLER MODIFICATION.

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	WIDTH
DECIDUOUS SHRUBS						
	HY PJ	HYDRANGEA PANICULATA 'JANE'	LITTLE LIME® PANICLE HYDRANGEA	3 GAL	3-5' HT	3-5' W
ORNAMENTAL GRASSES						
	BO BA	BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA	1 GAL	3-5' HT	3-5' W
	SC SO	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION'	STANDING OVATION LITTLE BLUESTEM	1 GAL	3-5' HT	3-5' W
PERENNIALS						
	AC DT	ACHILLEA MILLEFOLIUM 'DESERT EVE TERRACOTTA'	DESERT EVE™ TERRACOTTA YARROW	1 GAL	1-2' HT	1-2' W
	AL AL	ALLIUM X 'ALLMIG1'	MILLENIUM ORNAMENTAL ONION	1 GAL	1-2' HT	1-2' W
	EC PU	ECHINACEA PURPUREA	CONEFLOWER	1 GAL	3-5' HT	1-2' W
	PE HR	PENSTEMON DIGITALIS 'HUSKER RED'	HUSKER RED BEARDTONGUE	1 GAL	1-2' HT	1-2' W
	RU HI	RUDBECKIA HIRTA	BLACK-EYED SUSAN	1 GAL	1-2' HT	1-3' W
	RU LG	RUDBECKIA X 'LITTLE GOLDSTAR'	LITTLE GOLDSTAR CONEFLOWER	1 GAL	1-2' HT	1-2' W
	VE EV	VERONICA LONGIFOLIA 'EVELINE'	EVELINE SPEEDWELL	1 GAL	1-2' HT	1-2' W

LANDSCAPE SCHEDULE

SYMBOL	CODE	DETAIL	DESCRIPTION	PRODUCT NAME	MANUFACTURER	CONTACT	COLOR/FINISH	SIZE	NOTES
	L-1		LANDSCAPE MULCH	TRIPLE SHREDDED HARDWOOD MULCH	BY CONTRACTOR	BY CONTRACTOR	NATURAL/UNDYED	N/A	INSTALL TO A MINIMUM DEPTH OF 3". SUBMIT MULCH SAMPLE TO LANDSCAPE ARCHITECT PRIOR TO ORDERING.

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REVIEWER
BECCA HALL
PROJECT NUMBER
5120111-020
DATE
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Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

LANDSCAPE PLAN

C1-5

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

6/19/2025 10:22:30 AM

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., ∅
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	FLASH'G
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	OCCUR'G
OFFICE	OFF.
ON CENTER(S)	O.C.
ON CENTER EACH WAY	O.C.E.W.
OPENING	O/C
OPPOSITE	OPP.
OPPOSITE 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.
Q	**Q**
QUARRY TILE	Q.T.
R	**R**
RADIUS	R
RADIUS POINT	RP
RECESSED	REC.
REFERENCE	REF.
REFRIGERATOR	REFR
REINFORCING	REINF.
REMOVABLE	REM.
REQUIRED	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.
SPEC'D	SPEC'D
SQUARE	SQ.
SQUARE FEET	S.F.
STAGG'D	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 GLASS	TTLG
INSULATING GLASS	TTLIG
TOP 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

ELEVATION — DETAIL NO. / SHEET WHERE DETAIL IS FOUND

DETAIL SECTION REFERENCE — SECTION NO. / SHEET WHERE SECTION IS FOUND

WALL SECTION REFERENCE — SECTION NO. / SHEET WHERE SECTION IS FOUND

BUILDING SECTION REFERENCE — SECTION NO. / SHEET WHERE SECTION IS FOUND

COLUMN LINES

WALL TYPE

DOOR OPENING AND TAG

ROOM NAME AND NUMBER — ROOM ###

NORTH ARROW

HEIGHT ELEVATION

WINDOW TAG

TYPICAL WALL TYPE SCHEDULE

FURRING

TYPE	DESCRIPTION
1.0	5/8" GWB; FACE OF ADJACENT SURFACE; 5/8"

METAL STUDS

TYPE	DESCRIPTION
5.1 5.1A 5.1S	5/8" GWB 3 5/8" MTL. STUDS SOUND INSUL. AT TYPE 5.1A 4 1/4"
5.2 5.2A 5.2S 5.2F	5/8" GWB EACH SIDE 3 5/8" MTL. STUDS SOUND INSUL. AT TYPE 5.2A 4 7/8" UL DES U465
5.3 5.3A 5.3S 5.3F	5/8" GWB (2) LAYERS 5/8" GWB 3 5/8" MTL. STUDS SOUND INSUL. AT TYPE 5.3A 5 1/2" UL DES U465
7.2 7.2A 7.2S 7.2F	5/8" GWB EACH SIDE 6" MTL. STUDS SOUND INSUL. AT TYPE 7.2A 7 1/4" UL DES U465

MASONRY

TYPE	DESCRIPTION
8 8B 8S 8F 8F2	8" CMU 7 5/8" UL DES U905

COMPOSITE

TYPE	DESCRIPTION
C1	1' - 2 3/4" FACE BRICK AIR SPACE INSULATED SHEATHING FLUID APPLIED MEMBRANE AIR BARRIER 5/8" GYP. SHEATHING 6" MTL. STUD W/ FOAMED-IN-PLACE INSULATION
C1.1	1' - 2 3/4" FACE BRICK VERTICAL STACK BOND AIR SPACE INSULATED SHEATHING FLUID APPLIED MEMBRANE AIR BARRIER 5/8" GYP. SHEATHING 6" MTL. STUD W/ FOAMED-IN-PLACE INSULATION
C2	8 1/4" METAL PANEL 5/8" GYP. SHEATHING FLUID APPLIED MEMBRANE AIR BARRIER 6" MTL. STUD W/ FOAMED-IN-PLACE INSULATION

WALL TYPE NOTES

1. PROVIDE WATER RESISTANT GWB IN ALL BATHROOMS OR WET AREAS. WHERE TILE OCCURS ON WALLS, PROVIDE A TILE BACKER PRODUCT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE THICKNESS OF THE GWB/TILE BACKER WHEN MULTIPLE FINISHES OCCUR. SEE SPECS FOR ADDITIONAL INFO.
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. WHERE WALL TYPE INDICATES TWO LAYERS OF GWB ON ONE SIDE AND ONE LAYER ON THE OTHER SIDE OF THE WALL, THE SIDE OF THE WALL THAT THE SYMBOL POINTS TO RECEIVES THE TWO LAYERS OF GWB.
4. WHERE METAL STUDS EXTEND TO THE BOTTOM OF DECK, PROVIDE A DOUBLE HEAD TRACK TO ALLOW SLIPPAGE TO COMPENSATE FOR DEFLECTION OF THE STRUCTURE ABOVE, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. ALL METAL STUD PARTITIONS THAT EXTEND TO CEILING BUT DO NOT EXTEND TO STRUCTURE SHALL BE BRACED WITH ANGLED KNEE BRACING.
5. AT ALL METAL ROOF DECKS THAT RUN PERPENDICULAR TO A WALL, STUFF ALL VOIDS BETWEEN FLUTES OF DECK AND TOP OF WALL WITH BLANKET INSULATION. THIS SHALL BE INSTALLED FROM BELOW. FILL ALL VOIDS AT JOIST ENDS, ETC. WITH INSULATION. AT ALL ROOMS WITH EXPOSED STRUCTURE, BLANKET INSULATION SHALL BE PUSHED 1" MINIMUM PAST INTERIOR WALL FACE.
6. ALL EXPOSED CMU OUTSIDE 90 DEGREE CORNERS SHALL BE 1" BULL-NOSED, UNLESS OTHERWISE NOTED.
7. 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.
8. 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.
9. SEE SECTION 04 20 00 FOR REQUIREMENTS WHEN MASONRY WALLS EXTEND TO STRUCTURE ABOVE.
10. AT WALL TYPES INDICATED TO HAVE MULTIPLE LAYERS OF GWB ON ONE SIDE, TERMINATE ADDITIONAL LAYERS 4" ABOVE CEILING, UNLESS AT A RATED CONDITION.
11. 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.
12. 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 METAL STUD FRAMING, BATT INSULATION, AND DRYWALL. DRYWALL SHALL BE FINISHED TIGHT TO STRUCTURAL MEMBERS.
13. 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 5.2A AROUND MEMBER WITH DRYWALL FINISHED TIGHT AND SEALED TO PENETRATING ELEMENT.

WALL TYPE DESIGNATIONS ABOVE INDICATE THE FOLLOWING:

A - SOUND INSULATED WALL ASSEMBLY*

B - BURNISHED BLOCK

S - SMOKE PARTITION WALL ASSEMBLY

F - 1 HOUR FIRE ASSEMBLY**

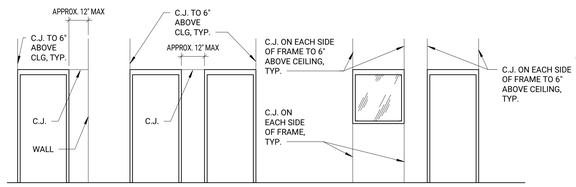
F2 - 2 HOUR FIRE ASSEMBLY**

* ALL SMOKE AND FIRE ASSEMBLIES TO INCLUDE SOUND INSULATION

** SEE CODE REVIEW PLAN AND LEGEND FOR SPECIFIC FIRE ASSEMBLY TYPE

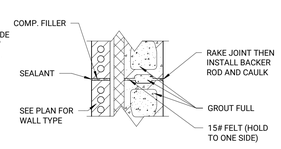
GENERAL NOTES

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 METAL STUDS ARE 3 5/8" 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. ARCHITECTURAL ELEVATION 100'-0" = CIVIL ELEVATION 983.96
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.

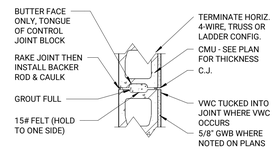


D - TYP. C.J.'S AT FRAMES ADJACENT TO WALL — C - TYP. C.J.'S AT ADJACENT FRAMES — B - TYP. C.J.'S AT FRAME WINDOW — A - TYP. C.J.'S AT FRAME DOOR

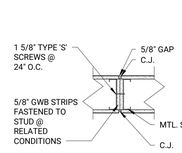
3 AO-0 TYPICAL C.J. DETAILS AT GWB — 1" = 1'-0" — 0' 1' 2'



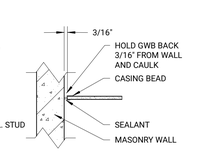
D - EXTERIOR



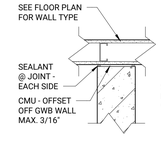
C - INTERIOR



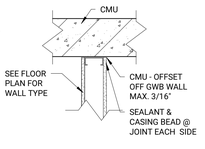
B - INTERIOR



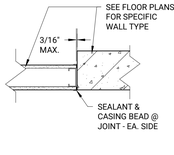
A - CAULK JT. DETAIL @ MASONRY WALL



D - CMU TO DRYWALL TRANSITION



C - DRYWALL TO CMU TRANSITION



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

2 AO-0 CONTROL JOINT DETAILS — 1" = 1'-0" — 0' 1' 2'

1 AO-0 WALL TERMINATION DETAILS — 1" = 1'-0" — 0' 1' 2'

BCDM architects

PROJECT TEAM

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ARCHITECTURAL NOTES

A0-0

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

6/19/2025 10:22:31 AM

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. SEE THE DOOR AND FRAME SCHEDULE FOR EXISTING DOORS TO RECEIVE NEW HARDWARE.
19. 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.
20. 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
21. REMOVE AND REPLACE CEILING PADS AND GRID AS REQUIRED FOR INSTALLATION OF TECHNOLOGY, FIRE/SMOKE DETECTION, AND MECHANICAL UPGRADES THROUGHOUT THE BUILDING.
22. 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

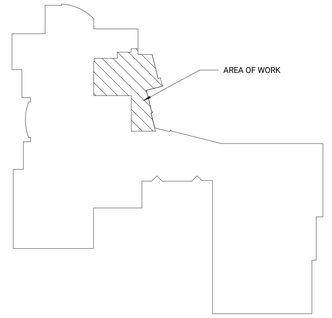
FLAG NOTES APPLY TO SHEET AD1-1 ONLY.

1. REMOVE ACOUSTIC TILE CEILING AND GRID IN THEIR ENTIRETY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH DISTURBED AREAS AS REQUIRED.
2. REMOVE GWB CEILING AND ASSOCIATED FRAMING IN THEIR ENTIRETY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH DISTURBED AREAS AS REQUIRED.
3. REMOVE DOOR, FRAME AND HARDWARE IN ITS ENTIRETY, AND ASSOCIATED GLAZING WHERE OCCURRING.
4. REMOVE WINDOW FRAME AND ASSOCIATED GLAZING IN ITS ENTIRETY.
5. REMOVE WALL IN ITS ENTIRETY. COORDINATE EXTENT OF REMOVAL WITH ARCHITECTURAL FLOOR PLAN. PATCH AND PREP FLOOR TO RECEIVE NEW FINISHES. PATCH DISTURBED AREAS AS REQUIRED. PROVIDING SHORING AS REQUIRED.
6. REMOVE PORTION OF WALL AS REQUIRED, PATCH DISTURBED AREAS AS REQUIRED, COORDINATE EXTENTS OF REMOVAL WITH ARCHITECTURAL FLOOR PLANS. PROVIDE SHORING AS REQUIRED WHERE OPENINGS ARE CREATED.
7. REMOVE RECEPTION DESK AND VINYL BASE IN ITS ENTIRETY. PREP SLAB FOR NEW FLOOR FINISH.
8. REMOVE PRECAST SILL BELOW IN ITS ENTIRETY.
9. REMOVE CASEWORK AND COUNTERTOP IN ITS ENTIRETY. PATCH WALL AND FLOORS AS REQUIRED TO PREP FOR NEW FINISHES.
10. REMOVE WATER CLOSET AND ASSOCIATED PLUMBING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION, PATCH CONCRETE SLAB AS REQUIRED TO PREP FOR NEW FLOOR FINISHES.
11. REMOVE LAV AND ASSOCIATED PLUMBING IN ITS ENTIRETY. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PATCH WALL AND FLOOR AS REQUIRED TO PREP FOR NEW FINISHES.
12. REMOVE TILE, BASE, BACKER BOARD AND SETTING BED IN THIS ROOM IN ITS ENTIRETY. PREPARE FLOOR AREA FOR NEW FLOOR FINISHES. COORDINATE WITH ROOM FINISH SCHEDULE. CONTRACTOR TO GRIND DOWN EXISTING FLOOR AS REQUIRED TO PROVIDE A LEVEL FLOOR TO RECEIVE FLOOR FINISHES AT REMOVED TILE FLOORING.
13. REMOVE EIFS SOFFIT AND ASSOCIATED FRAMING ABOVE ENTRY SHOWN DASHED IN ITS ENTIRETY.
14. REMOVE CARPET AND VINYL BASE IN THEIR ENTIRETY. PREPARE FLOOR AREA FOR NEW FLOOR FINISHES, PREPARE WALL FOR NEW BASE FINISH. COORDINATE WITH ROOM FINISH SCHEDULE.
15. REMOVE EXTERIOR WALL HYDRANT IN ITS ENTIRETY, SEE MEP.
16. REMOVE EXISTING DOWNSPOUT NOZZLE, SEE MEP. PATCH EXISTING WALL AT REMOVED DOWNSPOUT NOZZLE TO MATCH ADJACENT CONDITIONS.
17. REMOVE EXISTING STOOP IN ITS ENTIRETY.
18. REMOVE PORTION OF EXISTING FLOOR SLAB SHOWN ▨. SEE FLOOR PLANS AND MECHANICAL FOR EXTENTS OF WORK.
19. REMOVE EXISTING DRYWALL AS NEEDED TO INSTALL TILE BACKER BOARD. SEE A1-1 FOR EXTENTS.
20. REMOVE VCT AND VINYL BASE IN THEIR ENTIRETY. PREPARE FLOOR AREA FOR NEW FLOOR FINISHES. PREPARE WALL FOR NEW BASE FINISH.
21. REMOVE EXISTING MONUMENT BASE AND CONCRETE CAP IN ITS ENTIRETY. SEE CIVIL FOR DEMO LOCATION. SEE SALVAGE NOTES FOR MONUMENT BELL AND PLAQUE.
22. REMOVE EXISTING CORNER GUARDS IN THIS ROOM IN ITS ENTIRETY. PREP SURFACE FOR NEW FINISHES. SEE INTERIORS FOR NEW CORNER GUARD LOCATIONS.

DEMOLITION SALVAGE NOTES

NOTES APPLY TO SHEETS AD1-1 ONLY. OWNER HAS FIRST RIGHTS TO ALL SALVAGED MATERIAL.

- A SALVAGE EXISTING DESKS IN OPEN OFFICE 104 TO BE RELOCATED AT LOCATION SHOWN ON A1-1.
- B SALVAGE EXISTING CASEWORK ON WEST WALL OF OPEN OFFICE 104 TO BE REINSTALLED AT LOCATION(S) SHOWN ON A6-1
- C SALVAGE EXISTING FEC AND REINSTALL AT LOCATION SHOWN ON A1-1.
- D SALVAGE EXISTING VIDEO INTERCOM IN VEST. 100 TO BE REINSTALLED AT LOCATION SHOWN ON A1-1.
- E SALVAGE EXISTING REFRIGERATOR AND RELOCATE IN NURSE 110. COORDINATE EXACT LOCATION WITH OWNER.
- G SALVAGE (3 TOTAL) EXISTING INTERCOM PHONES TO BE RELOCATED AND REINSTALLED AT NEW RECEPTION DESK. COORDINATE WITH OWNER ON EXACT LOCATIONS.
- H SALVAGE EXISTING WALL MOUNTED TV TO BE REINSTALLED AFTER ACCENT WALL HAS BEEN PAINTED.
- J REMOVE AND SALVAGE EXISTING ATC PADS AS REQUIRED FOR ABOVE CEILING WORK. REINSTALL SALVAGED ATC PADS AFTER ABOVE CEILING WORK HAS BEEN PERFORMED.
- K SALVAGE EXISTING MONUMENT BELL AND PLAQUE. SEE CIVIL FOR RELOCATION.



KEY PLAN

1 AD1-1 DEMOLITION PLAN - MAIN LEVEL

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

BCDM architects

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Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

DEMOLITION PLAN

AD1-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

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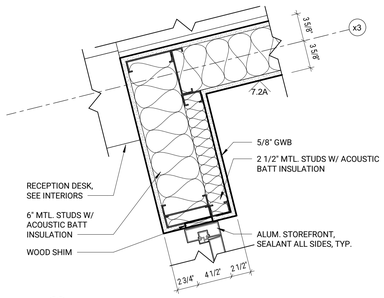
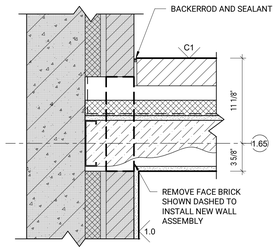
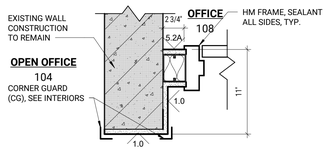


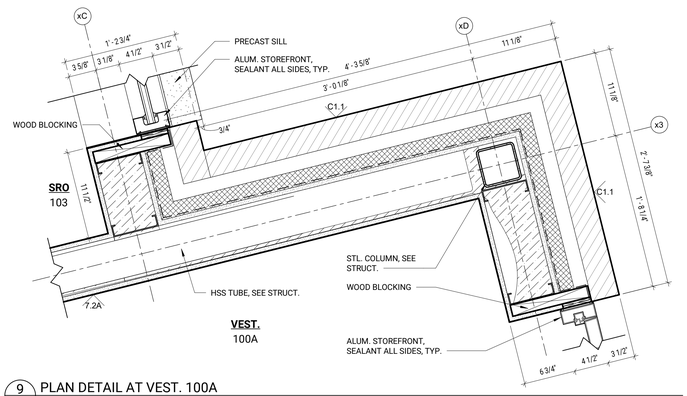
13 A1-1 PLAN DETAIL AT DOOR 100A.4
1 1/2" = 1'-0"



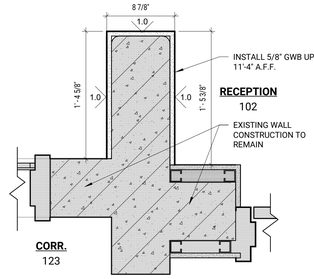
12 A1-1 PLAN DETAIL AT DOOR 104A ABOVE
1 1/2" = 1'-0"



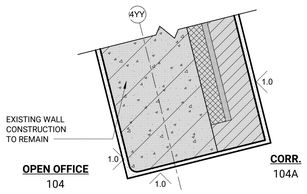
11 A1-1 PLAN DETAIL AT OFFICE 108
1 1/2" = 1'-0"



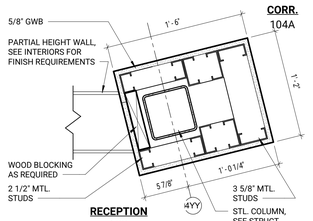
9 A1-1 PLAN DETAIL AT VEST. 100A
1 1/2" = 1'-0"

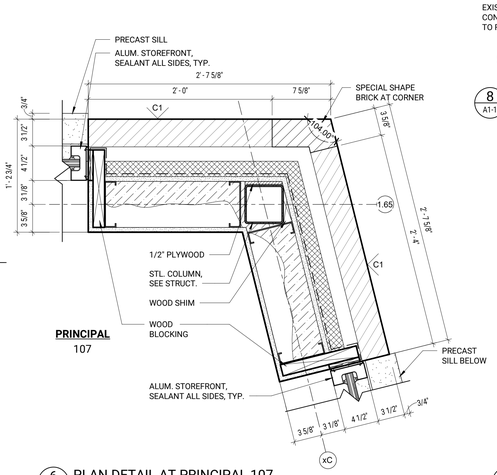


10 A1-1 DETAIL PLAN AT RECEPTION 102
1 1/2" = 1'-0"



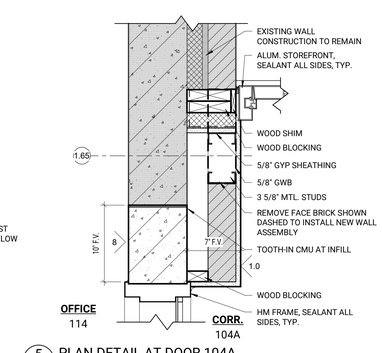
8 A1-1 PLAN DETAIL AT CORR. 104A
1 1/2" = 1'-0"



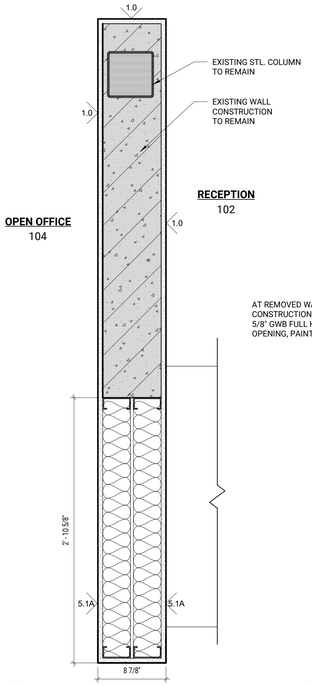


7 A1-1 PLAN DETAIL AT OPEN OFFICE 104 COLUMN
1 1/2" = 1'-0"

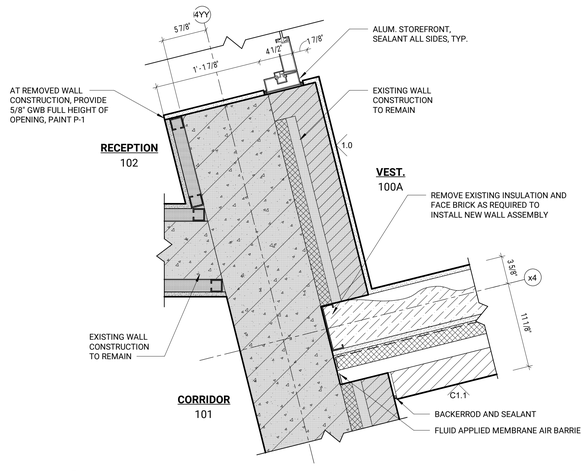
6 A1-1 PLAN DETAIL AT PRINCIPAL 107
1 1/2" = 1'-0"



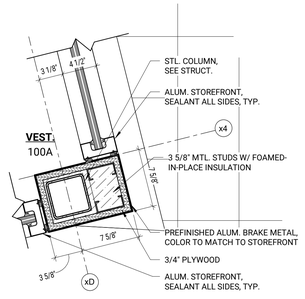
5 A1-1 PLAN DETAIL AT DOOR 104A
1 1/2" = 1'-0"



4 A1-1 PLAN DETAIL AT RECEPTION 102 WALL
1 1/2" = 1'-0"



3 A1-1 PLAN DETAIL AT DOOR 100A.3
1 1/2" = 1'-0"



2 A1-1 PLAN DETAIL AT VEST. 100A STOREFRONT
1 1/2" = 1'-0"

1 A1-1 FLOOR PLAN
1/8" = 1'-0"

TRUE NORTH

PLAN NORTH

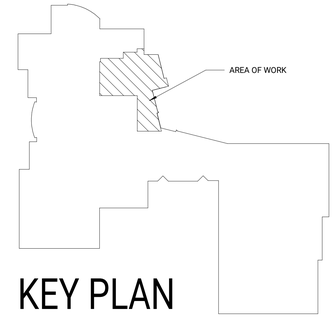
ARCHITECTURAL FLAG NOTES

FLAG NOTES APPLY TO SHEET A1-1 ONLY

1. FIELD VERIFY EXISTING WALL THICKNESS, ALIGN FACE OF WALL WITH ADJACENT EXISTING WALL.
2. STRUCTURAL STOOP, SEE STRUCTURAL.
3. CONTRACTOR TO GRIND EXISTING CONCRETE FLOOR AND/OR PROVIDE CONCRETE FLOOR UNDERLAYMENT AS REQUIRED TO PROVIDE A LEVEL FLOOR TO RECEIVE FLOOR FINISHES AT REMOVED WALL. MAXIMUM ACCEPTABLE VERTICAL IRREGULARITY SHALL BE 1/8" MEASURED OVER A 5'-0" TEMPLATE.
4. CARD READER, SEE SPEC SECTION 08 71 00 AND ELECTRICAL.
5. VIDEO INTERCOM SALVAGED FROM VEST. 100, SEE SPEC SECTION 08 71 00 AND ELECTRICAL.
6. POWER ASSIST OPERATOR, SEE SPEC SECTION 08 71 00 AND ELECTRICAL.
7. ACCESS CONTROL BUTTON FOR DOORS 100A.1 & 100A.4, SEE ELECTRICAL AND TECHNOLOGY. COORDINATE FINAL INSTALL LOCATION WITH OWNER.
8. TOOTH-IN CMU AT WALL INFILL TO MATCH EXISTING.
9. MULLION MOUNTED CARD READER, SEE SPEC SECTION 08 71 00 AND ELECTRICAL.
10. ACCESS CONTROL BUTTON FOR DOORS 102 & 102A, SEE ELECTRICAL AND TECHNOLOGY. COORDINATE FINAL INSTALL LOCATION WITH OWNER.
11. EXISTING FEC SALVAGED AND REINSTALLED.
12. PARTIAL HEIGHT WALL W/ SSM-1 TOP. SEE 15 / A6-2 FOR DETAILS.
13. AT REMOVED DOWNSPOUT NOZZLE, PATCH AND PAINT WALL TO MATCH ADJACENT CONDITIONS.
14. PAINT BOTH SIDES OF EXISTING HOLLOW METAL FRAME P-2.
15. FEC, SEE SPEC SECTION 10 44 00.
16. CONCRETE SPLASH PAD AT DOWNSPOUT, SEE CIVIL.
17. EXISTING OFFICE DESK SALVAGED AND RELOCATED.
18. CONCRETE SLAB INFILL SHOWN AS REQUIRED AT LOCATIONS TRENCHED FOR UNDERGROUND PIPING. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND EXTENTS OF WORK.
19. MONUMENT BASE WITH PRECAST CONCRETE CAP. SEE CIVIL FOR LOCATION. SEE SHEET A2-1 FOR MONUMENT DETAILS.
20. UNDERCOUNTER ADA COMPLIANT 15" ICE MACHINE MODEL C-80BAJ-AD FROM HOSHIZAKI AMERICA MANUFACTURER.
21. AT THIS WALL, INSTALL GWB UP TO 10'-0" A.F.F.
22. AT REMOVED VIDEO INTERCOM, PATCH BRICK WALL.

FLOOR PLAN GENERAL NOTES

1. ALL GWB WALLS ARE TYPE 5.2A UNLESS NOTED OTHERWISE.
2. ALL INTERIOR CMU WALLS ARE TYPE 8 UNLESS NOTED OTHERWISE.
3. SEE A6 SERIES FOR MARKERBOARD AND TACKBOARD LOCATIONS.
4. SEE DETAIL 3/A0-0 FOR TYPICAL GWB CONTROL JOINT LOCATIONS AT INTERIOR WALLS. SEE THE REFLECTED CEILING PLAN FOR ADDITIONAL CONTROL JOINT LOCATIONS.
5. SEE BUILDING ELEVATIONS FOR MASONRY CONTROL JOINT LOCATIONS. SEE THE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.



KEY PLAN

BCDM architects

PROJECT TEAM

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3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FLOOR PLAN

A1-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

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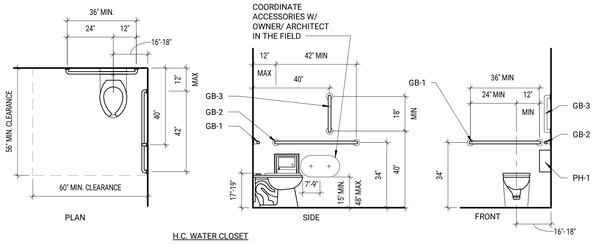
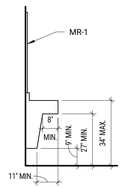


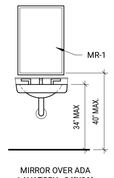
H.C. WATER CLOSET

A



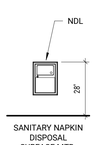
LAVATORY/ MIRROR TYP.

B



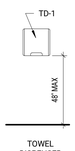
MIRROR OVER ADA LAVATORY - 24"X36"

C



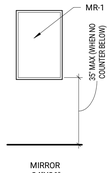
SANITARY NAPKIN DISPOSAL SURFACE MTD.

D



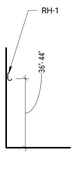
TOWEL DISPENSER

E



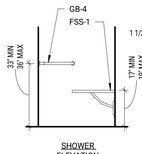
MIRROR 24"X36"

F



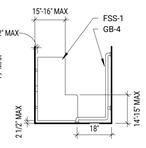
ROBE HOOK

G



SHOWER ELEVATION

H



SHOWER PLAN

I

NOTE:

- FIXTURES AND TOILET ACCESSORIES ARE TO BE INSTALLED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND ICC/ANSI A117.1-2003.
- PER SECTION 104.1 OF THE ADA SAD GUIDELINES, DIMENSIONS THAT ARE NOT STATED AS 'MAXIMUM' OR 'MINIMUM' ARE ABSOLUTE.
- PER SECTION 104.1.1 OF THE ADA SAD GUIDELINES, DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES, EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.
- COORDINATE PLUMBING FIXTURE HEIGHTS WITH MECHANICAL.

6 A1-2 STUDENT FIXTURE MOUNTING HEIGHT

3/8" = 1'-0" 0" 2'-8" 5'-4"

ROOF PLAN FLAG NOTES

FLAG NOTES APPLY TO SHEET 1/A1-2 ONLY

1. AT DASHED LINE, REMOVE FACE BRICK AS REQUIRED TO INSTALL NEW FLASHING. STEP FLASHING DOWN ALONG WALL TO MAINTAIN CONSISTENT HEIGHT OF FLASHING ABOVE NEW ROOF. INSTALL NEW FACE BRICK TO MATCH EXISTING. PROVIDE END DAMS AT EACH END OF REMOVED FACE BRICK.
2. AT HATCH, REMOVE EXISTING FASCIA AS REQUIRED AND WRAP EPDM MEMBRANE UP AND OVER EXISTING PARAPET. TIE NEW EPDM MEMBRANE INTO EXISTING EPDM MEMBRANE PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL 3 / A1-2.

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. PROVIDE ADDITIONAL INSULATION AT LOCATIONS NOTED ON THE ROOF PLAN.
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.
7. UNLESS SPECIFIED, ALL EXISTING MECHANICAL ROOFTOP EQUIPMENT TO REMAIN.

ROOF PLAN LEGEND:

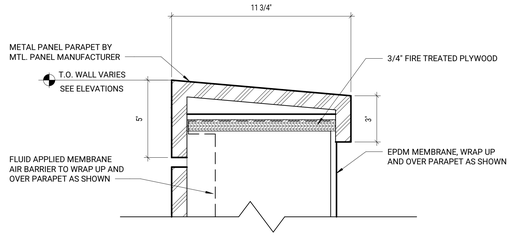
NOTE: SEE ALSO MECHANICAL DRAWINGS FOR SPECIFIC ROOF PENETRATION LOCATIONS AND DETAILS

- EPDM ROOF ON 1 1/2" MTL. DECK
- ROOF AND OVERFLOW DRAIN, SEE 2/A1-2
- EXISTING ROOF MEMBRANE TO REMAIN
- X/X" / 12" S.S. — ROOF SLOPE, SLOPED STRUCTURE (SEE STRUCT. FOR TYPE)
- TAPERED INSULATION (1/4" PER FT. SLOPE MIN.)

ARCHITECTURAL FLAG NOTES

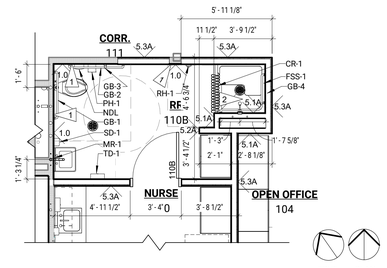
FLAG NOTES APPLY TO SHEET 5/A1-2 ONLY

1. PROVIDE TILE BACKER BOARD AT EXISTING WALL.
2. PREFABRICATED INDIVIDUAL SHOWER UNIT, SEE PLUMBING.



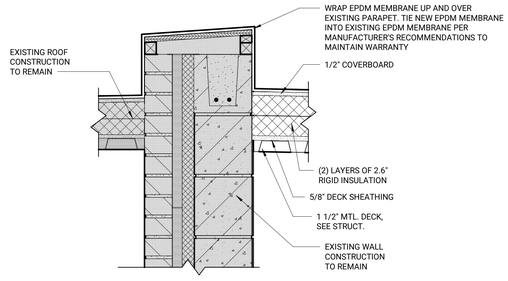
5 A1-2 TYPICAL PARAPET CAP DETAIL

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



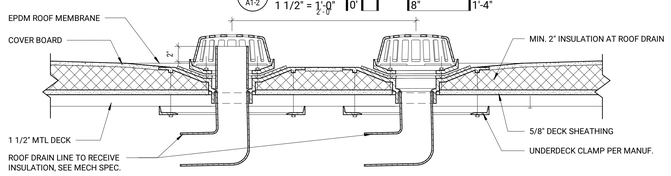
4 A1-2 ENLARGED PLAN - RESTROOM 110B

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



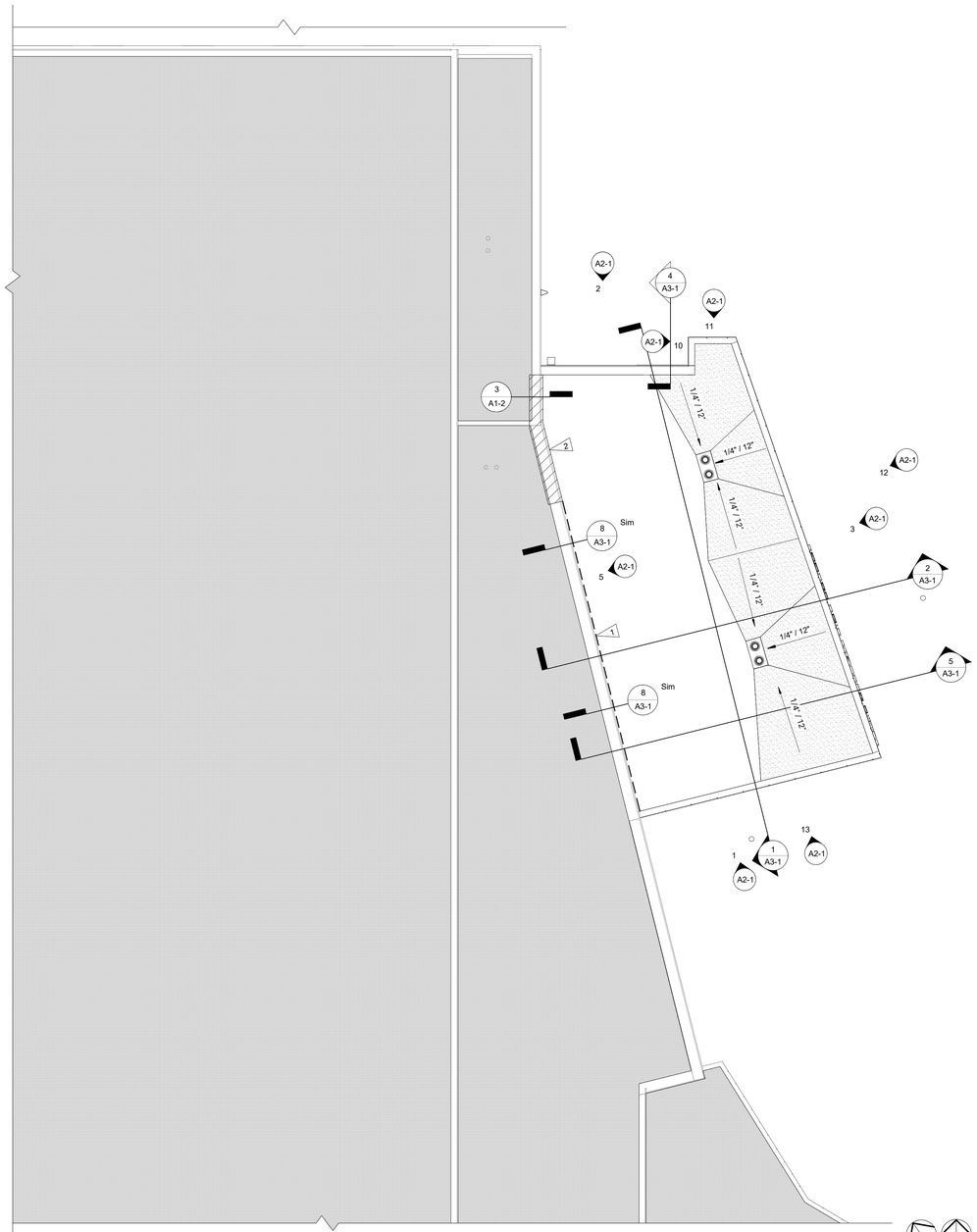
3 A1-2 ROOF DETAIL AT NEW TO EXISTING ROOF

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'

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Omaha, NE 68102

REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

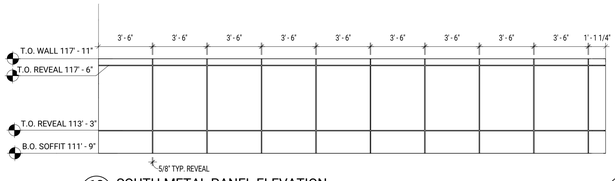
ROOF PLAN AND ENLARGED PLAN

A1-2

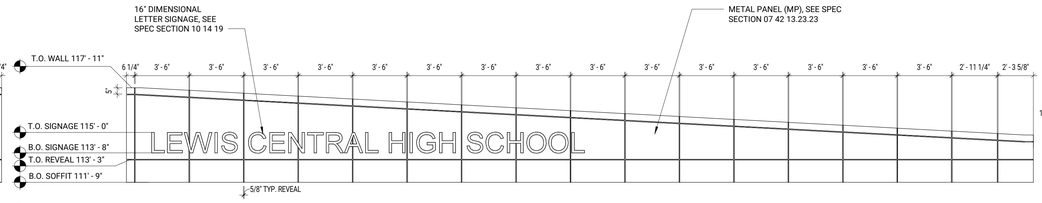
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

6/19/2025 10:22:44 AM



13 A2-1 SOUTH METAL PANEL ELEVATION
1/4" = 1'-0" 0" 4" 8"



12 A2-1 EAST METAL PANEL ELEVATION
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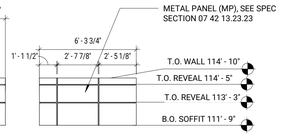
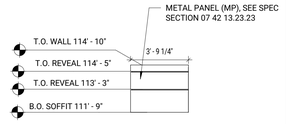
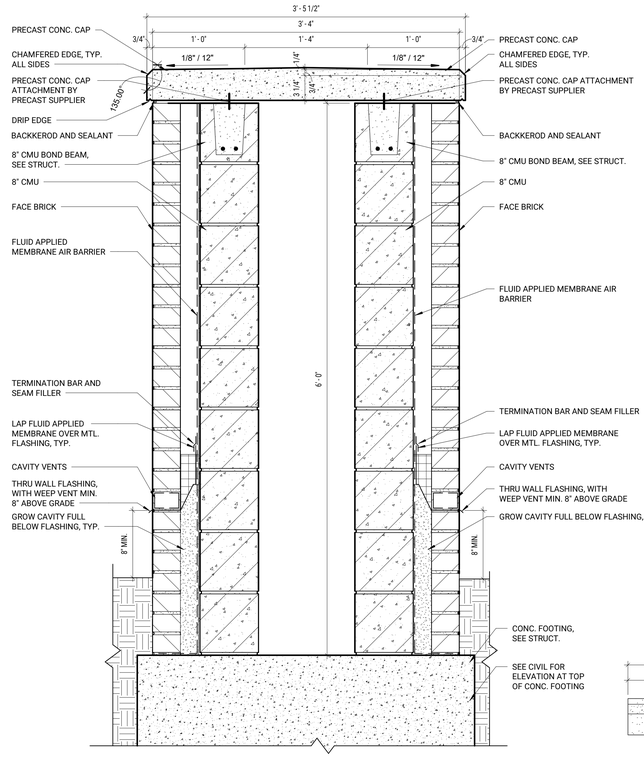


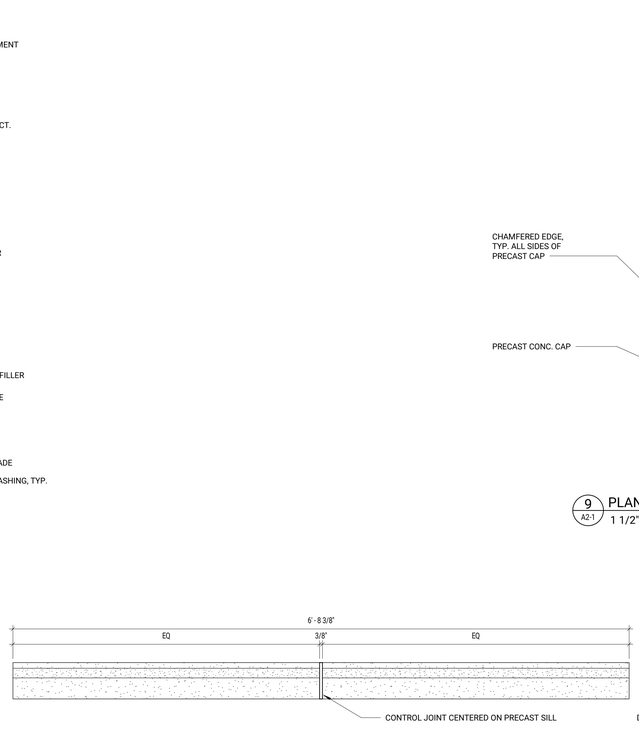
11 A2-1 NORTH METAL PANEL ELEVATION
1/4" = 1'-0" 0" 4" 8"



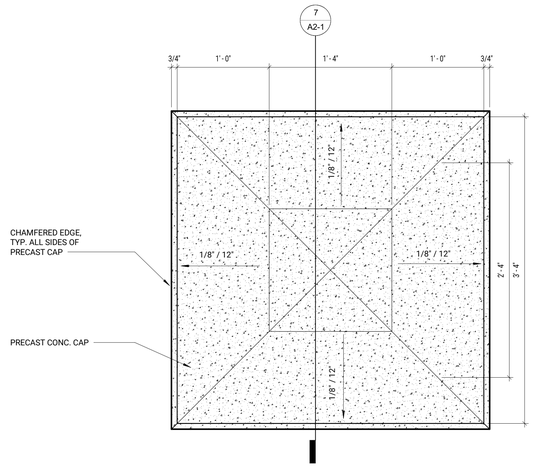
10 A2-1 WEST METAL PANEL ELEVATION
1/4" = 1'-0" 0" 4" 8"



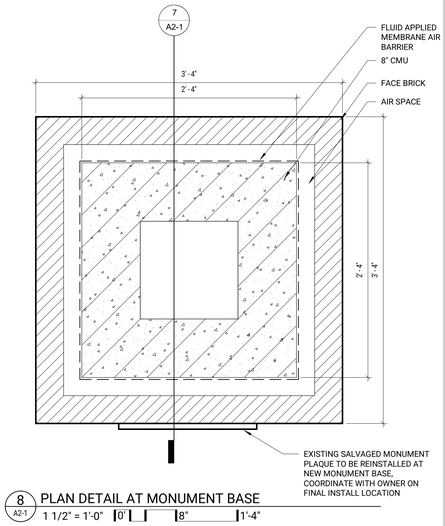
7 A2-1 DETAIL SECTION AT MONUMENT BASE
1 1/2" = 1'-0" 0" 8" 1'-4"



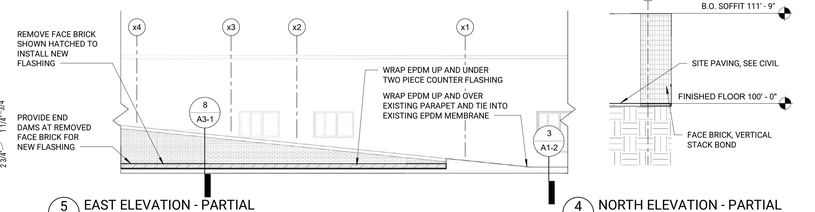
6 A2-1 PRECAST SILL ELEVATION
1 1/2" = 1'-0" 0" 8" 1'-4"



9 A2-1 PLAN DETAIL AT MONUMENT CAP
1 1/2" = 1'-0" 0" 8" 1'-4"

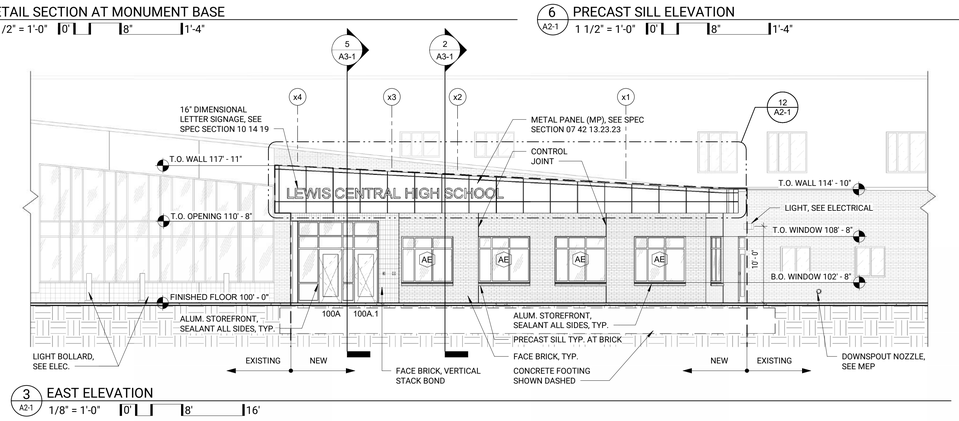


8 A2-1 PLAN DETAIL AT MONUMENT BASE
1 1/2" = 1'-0" 0" 8" 1'-4"

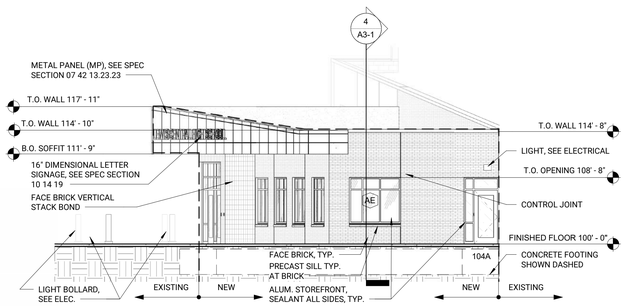


5 A2-1 EAST ELEVATION - PARTIAL
1/8" = 1'-0" 0" 8" 16'

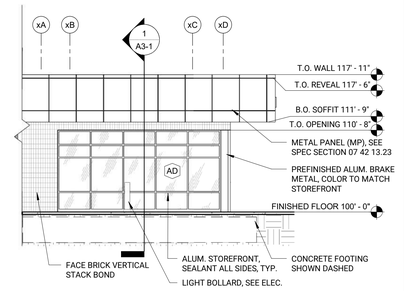
4 A2-1 NORTH ELEVATION - PARTIAL
1/8" = 1'-0" 0" 8" 16'



3 A2-1 EAST ELEVATION
1/8" = 1'-0" 0" 8" 16'



2 A2-1 NORTH ELEVATION
1/8" = 1'-0" 0" 8" 16'



1 A2-1 SOUTH ELEVATION
1/8" = 1'-0" 0" 8" 16'

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ALVINE ENGINEERING
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Omaha, NE 68102

REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

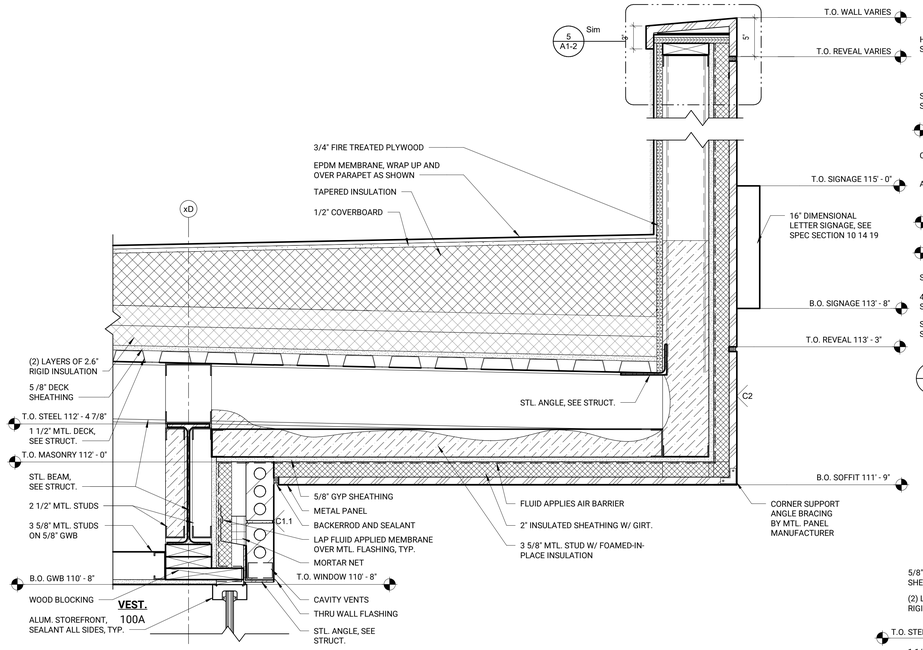
EXTERIOR ELEVATIONS

A2-1

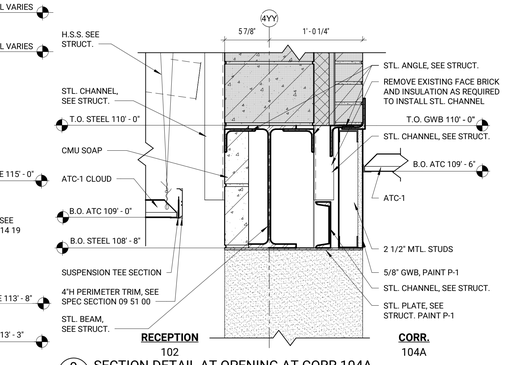
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

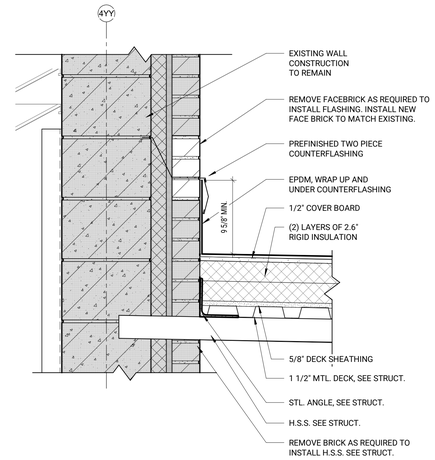
6/19/2025 10:22:49 AM



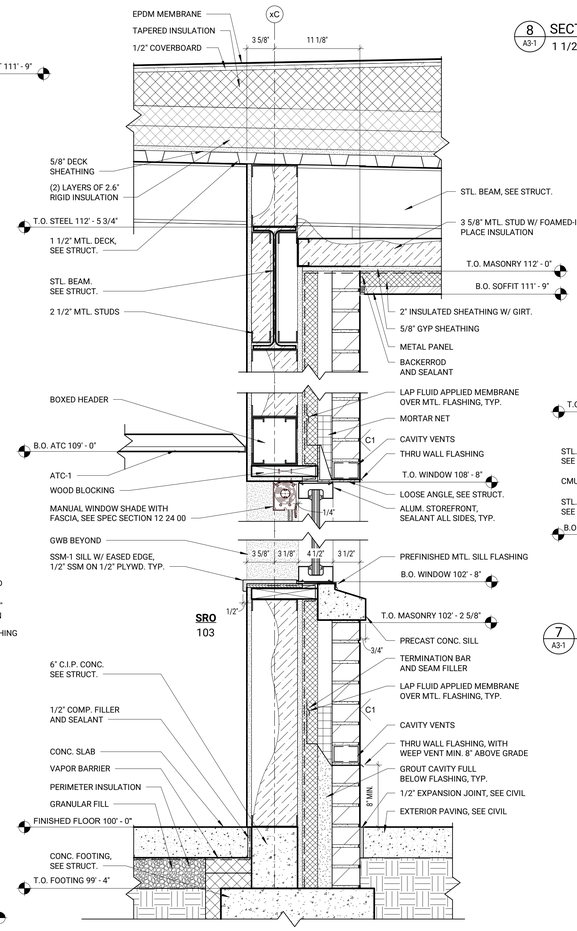
10 A3-1 SECTION DETAIL THROUGH DOOR 100A
1 1/2" = 1'-0" 0" 8" 1'-4"



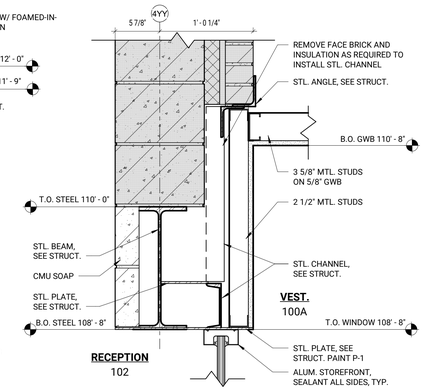
9 A3-1 SECTION DETAIL AT OPENING AT CORR 104A
1 1/2" = 1'-0" 0" 8" 1'-4"



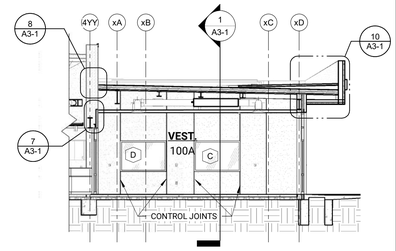
8 A3-1 SECTION DETAIL AT ROOF CONNECTION TO EXISTING WALL
1 1/2" = 1'-0" 0" 8" 1'-4"



6 A3-1 SECTION DETAIL THROUGH WINDOW TYPE AE
1 1/2" = 1'-0" 0" 8" 1'-4"



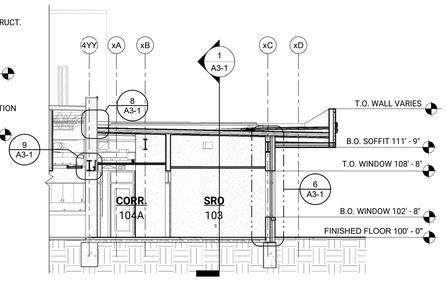
7 A3-1 DETAIL SECTION THROUGH VESTIBULE 100A
1 1/2" = 1'-0" 0" 8" 1'-4"



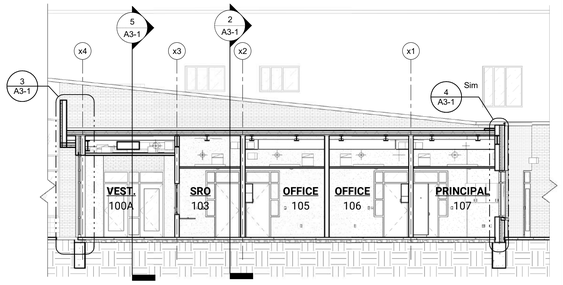
5 A3-1 BUILDING SECTION THROUGH VEST. 100A
1/8" = 1'-0" 0" 8" 16'

4 A3-1 SECTION DETAIL AT PRINCIPAL 107
1 1/2" = 1'-0" 0" 8" 1'-4"

3 A3-1 SECTION DETAIL THROUGH WINDOW TYPE AD
1 1/2" = 1'-0" 0" 8" 1'-4"



2 A3-1 BUILDING SECTION - LOOKING EAST
1/8" = 1'-0" 0" 8" 16'



1 A3-1 BUILDING SECTION - LOOKING WEST
1/8" = 1'-0" 0" 8" 16'

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Omaha, NE 68102

REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

SECTIONS

A3-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

6/19/2025 10:22:50 AM

WINDOW SCHEDULE

TYPE	MATERIAL	FINISH	FRAME DEPTH	HEAD	JAMB	SILL	GLAZING	LABEL	REMARKS
AD	ALUM.	PF	0' - 4 1/2"	3/A3-1	2/A1-1	3/A3-1	TTIG		
AE	ALUM.	PF	0' - 4 1/2"	4/A3-1, 6/A3-1	6/A1-1, 9/A1-1	4/A3-1, 6/A3-1	TTIG		
C	ALUM.	PF	0' - 4 1/2"	3	4	18	SCTLG		
D	ALUM.	PF	0' - 4 1/2"	18	4	11	SCTLG		1

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.
100A	3' - 0"	7' - 0"	FG1	ALUM.	PF	AC	4 1/2"	ALUM.	PF	10/A3-1	2/A1-1	1	---	TTIG	---	100A
100A.1	3' - 0"	7' - 0"	FG1	ALUM.	PF	AC	4 1/2"	ALUM.	PF	10/A3-1	9/A1-1	2	---	TTIG	---	100A.1
100A.3	3' - 0"	7' - 0"	FG1	ALUM.	PF	AB	4 1/2"	ALUM.	PF	7/A3-1	3/A1-1	1	---	SCTLG	---	100A.3
100A.4	3' - 0"	7' - 0"	FG1	ALUM.	PF	AB	4 1/2"	ALUM.	PF	7/A3-1	13/A1-1	3	---	SCTLG	---	100A.4
102	3' - 0"	7' - 0"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	P-2	EXIST.	EXIST.	5	---	---	3	102
102A	3' - 0"	7' - 0"	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	P-2	EXIST.	EXIST.	5	---	---	3	102A
103	3' - 0"	7' - 0"	F	WD	ST-1	B	8 1/4"	HM	P-2	3	4, 10	6	---	CTG	---	103
104A	3' - 0"	7' - 0"	FG1	ALUM.	PF	AA	4 1/2"	ALUM.	PF	6/A3-1 SIM	5/A1-1 & 6/A1-1 SIM	4	---	TTIG	---	104A
105	3' - 0"	7' - 0"	F	WD	ST-1	B	8 1/4"	HM	P-2	3	4, 13	6	---	CTG	---	105
106	3' - 0"	7' - 0"	F	WD	ST-1	B	8 1/4"	HM	P-2	3	4, 12	6	---	CTG	---	106
107	3' - 0"	7' - 0"	F	WD	ST-1	B	8 1/4"	HM	P-2	3	4, 12	6	---	CTG	---	107
108	3' - 0"	7' - 0"	F	WD	ST-1	B	5 7/8"	HM	P-2	3	4, 11/A1-1	6	---	CTG	---	108
110	3' - 0"	7' - 0"	F	WD	ST-1	B	5 7/8"	HM	P-2	3	4, 13	6	---	CTG	---	110
110B	3' - 0"	7' - 0"	F	WD	ST-1	A	6 5/8"	HM	P-2	1	2	7	---	---	---	110B
114	3' - 0"	7' - 0"	F	WD	ST-1	B	8 5/8"	HM	P-2	9/A5-1	5/A1-1, 14	6	---	CTG	---	114
118A	3' - 0"	7' - 0"	F	WD	ST-1	B	5 7/8"	HM	P-2	17	15, 16	6	---	CTG	2	118A

WINDOW, DOOR, FRAME, AND GLAZING REMARKS

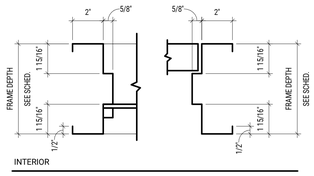
1. TRANSACTION WINDOW WITH TWO WAY COMMUNICATION SPEAKER AND PASS THRU TRAY.
2. FIELD VERIFY WIDTH AT EXISTING WALLS FOR NEW H.M. FRAME.
3. PATCH AND PAINT EXISTING FRAME AS REQUIRED TO INSTALL NEW DOOR HARDWARE. PAINT P-2.

DOOR, FRAME AND GLAZING LEGEND

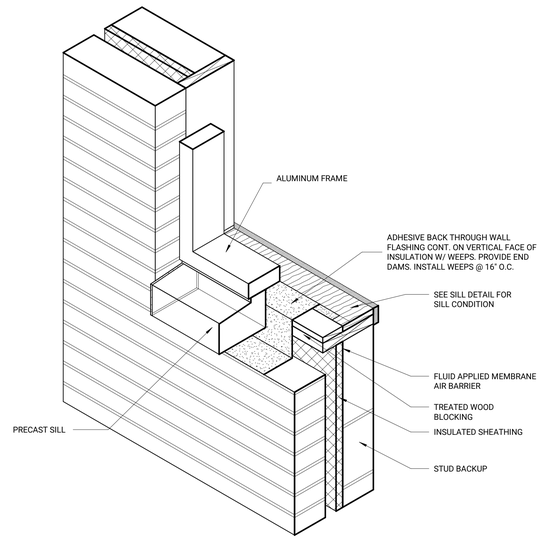
ALUM	ALUMINUM
CTG	CLEAR TEMPERED GLASS
HM	HOLLOW METAL
MIN	MINUTE
P	PAINT
PF	PRE-FINISHED
PR	PAIR
REV	REVERSE
SCTLG	SECURITY CLEAR TEMPERED LAMINATED GLASS
SIM	SIMILAR
ST	STAIN
TTIG	TINTED TEMPERED INSULATED GLASS
U.N.O.	UNLESS NOTED OTHERWISE
WD	WOOD

DOOR, FRAME, AND GLAZING GENERAL NOTES

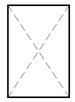
1. SEE DETAIL 5/A4-1 TYPICAL METAL FRAME DIMENSIONS AND PROFILES. WHEN HOLLOW METAL FRAMES WRAP GWB WALLS, THE THROAT DEPTH SHALL EQUAL THE THICKNESS OF THE DESIGNATED WALL TYPE SHOWN ON THE ARCHITECTURAL FLOOR PLAN AND WHEN HOLLOW METAL FRAMES WRAP CMU WALLS, THE THROAT DEPTH SHALL EXCEED THE THICKNESS 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 REMOVABLE GLAZING STOPS SHALL BE 5/8" HIGH AND 5/8" WIDE, U.N.O.
4. ALL EXTERIOR FRAMES (SHOWN ON FRAME ELEVATIONS) ARE VIEWED FROM THE EXTERIOR UNLESS INDICATED OTHERWISE.
5. SEE DOOR AND FRAME SCHEDULE FOR ACTUAL DOOR SIZES. COORDINATE FRAME DIMENSIONS WITH DOOR SIZES.
6. SEE SHEET A4-1 FOR DETAILS LISTED IN SCHEDULE, U.N.O.
7. COORDINATE LINTELS AT DOOR HEADS WITH STRUCTURAL WHERE REQ'D.
8. SEE SPECIFICATIONS FOR FINISH OF WOOD DOORS.
9. SEE SPECIFICATION SECTION 08 80 00 FOR DESCRIPTION OF GLASS TYPES SHOWN ON DOOR AND FRAME SCHEDULE (I.E. 'CTG').
10. VERIFY ALL HARDWARE SIZES, CLEARANCES, POCKET DEPTHS, ECT. WITH HARDWARE SUPPLIER AND ADJUST ACCORDINGLY.
11. 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.
12. GLASS AND STOPS AT INTERIOR HOLLOW METAL FRAMES OCCURRING BETWEEN CORRIDORS AND OCCUPIED ROOMS SHALL BE LOCATED AT THE CORRIDOR SIDE OF THE FRAME, U.N.O.
13. WHERE THE CEILING RUNS INTO THE TOP OF THE FRAME, THE FRAME SHALL BE KNEE BRACED AT 4'-0" O.C. AT THE HEAD OF THE FRAME TO THE STRUCTURE ABOVE FOR LATERAL STABILITY. KNEE BRACING SHALL BE INSTALLED WITH A MAXIMUM ANGLE (FROM THE HORIZONTAL) OF 45 DEGREES.
14. CAULK ALL JOINTS BETWEEN INTERSECTING FRAME MEMBERS THAT ARE NOT WELDED, WITH A PAINTABLE CAULK TO PROVIDE A SMOOTH AND UNIFORM APPEARANCE WHEN PAINTED.
15. THE PERIMETER OF ALL FRAMES SHALL BE CAULKED AT BOTH THE EXTERIOR AND INTERIOR.
16. SET ALL EXTERIOR FRAMES AND THRESHOLDS IN A CONTINUOUS BEAD OF CAULK AT SILLS.
17. PROVIDE AND INSTALL THRU-WALL FLASHING AND WEEP HOLES ABOVE ALL EXTERIOR FRAME OPENINGS.



5 / A4-1 TYP. HOLLOW METAL FRAME CONFIGURATIONS
3" = 1'-0" 0' 4" 8"

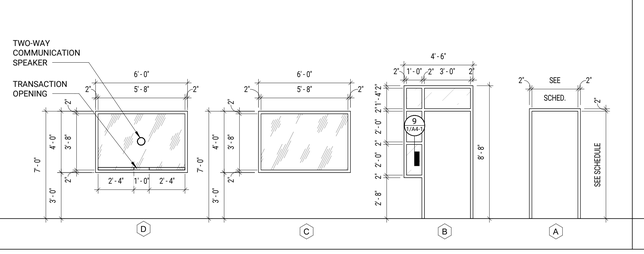


4 / A4-1 AXONOMETRIC OF TYPICAL WINDOW SILL
1 1/2" = 1'-0" 0' 8" 1'-4"

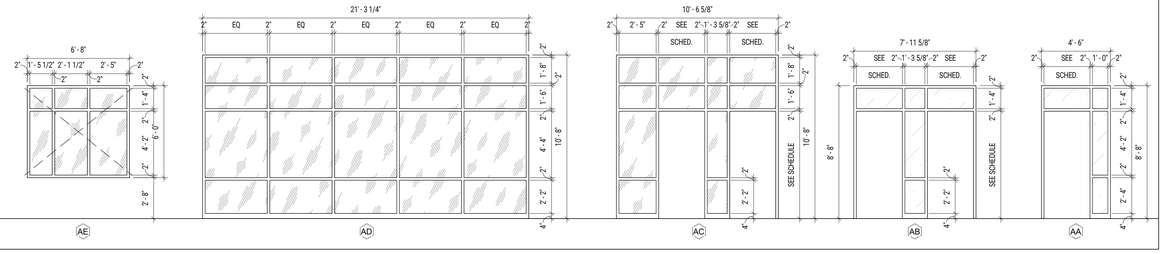


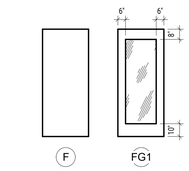
NOTE: DASHED "X" REPRESENTS FRAMES TO RECEIVE MANUAL SHADES

HOLLOW METAL FRAMES



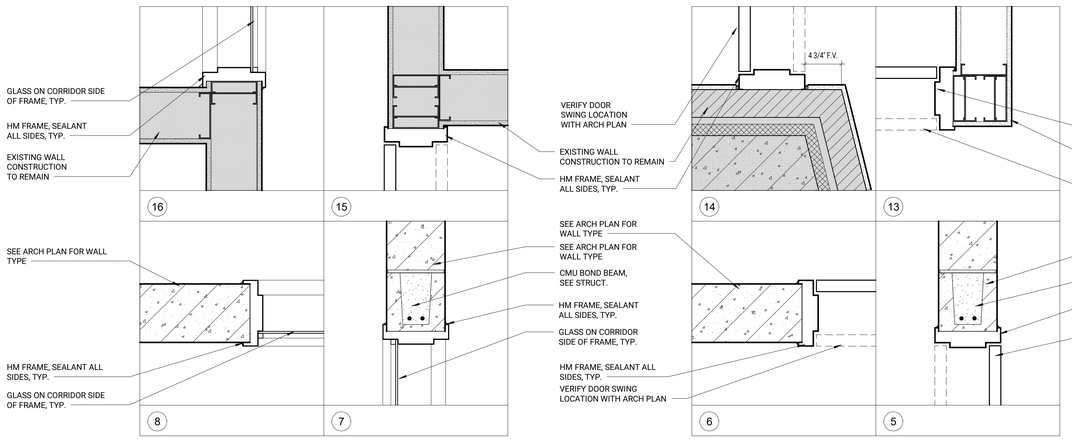
ALUM. STOREFRONT





3 / A4-1 DOOR TYPE ELEVATIONS
1/4" = 1'-0" 0' 4' 8'

2 / A4-1A FRAME ELEVATIONS
1/4" = 1'-0" 0' 4' 8'



1 / A4-1 DOOR AND FRAME DETAILS - GRID
1 1/2" = 1'-0" 0' 8" 1'-4"

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

DOORS, WINDOW FRAMES AND DETAILS

A4-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

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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 FLAG NOTES

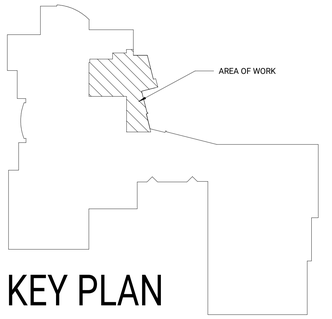
FLAG NOTES APPLY TO SHEET A5-1 ONLY.

1. EXISTING ATC AND GRID TO REMAIN.
2. EXISTING GWB CEILING TO REMAIN.
3. MODIFY EXISTING ATC GRID AS REQUIRED TO PROVIDE NEW WALL ANGLE. REINSTALL SALVAGED PADS IN EXISTING GRID.
4. ALIGN EDGE OF BULKHEAD WITH EXISTING WALL.
5. ATC-1 CLOUD WITH 4"H PERIMETER TRIM.
6. MANUAL ROLLER SHADE W/ FASCIA, SEE SPEC SECTION 12 24 00. SEE DETAIL 6 / A3-1 FOR TYPICAL SHADE.
7. PROVIDE AND INSTALL HOLD DOWN CLIPS AT AREAS SHOWN HATCHED
8. CUBICLE CURTAIN AND TRACK, SEE SPEC SECTION 10 21 23.
9. PROVIDE CONTROL JOINT AT EDGE OF GWB CEILING.
10. FCU, SEE MECH.
11. REMOVE AND REINSTALL ATC AS REQUIRED FOR ABOVE CEILING WORK.
12. PAINT ALL FACES OF BULKHEAD P-4.

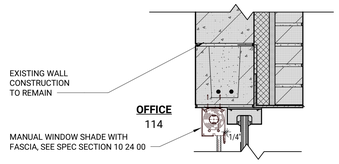
REFLECTED CEILING PLAN LEGEND:

- EXISTING 2-HOUR RATED FIRE WALL
- 2-HOUR RATED FIRE WALL, OPENINGS NOT TO EXCEED 25% OF LENGTH OF THE WALL
  - 90 MIN. DOORS
  - 120 MIN. SIDELIGHTS/TRANSOMS AND WINDOW ASSEM.
- EXISTING ONE HOUR FIRE WALL.
- 2x4 LIGHT
- 1x4 LIGHT
- 2x2 LIGHT
- DOWNLIGHT
- SUPPLY DIFFUSER
- RETURN GRILLE
- ATC CEILING
- GWB CEILING
- METAL PANEL

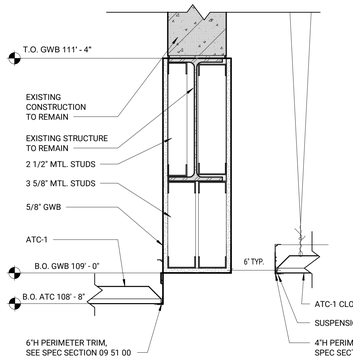
NOTE: THIS SHEET ORIGINALLY PRINTED IN COLOR

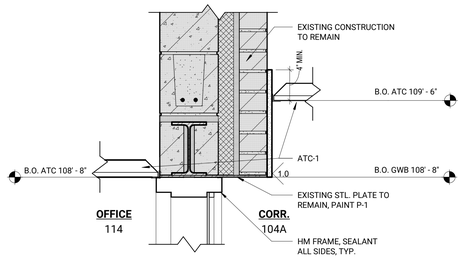


KEY PLAN

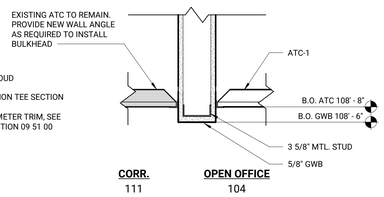


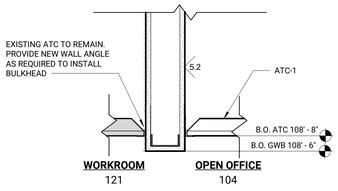
10 A5-1 WINDOW SHADE DETAIL AT OFFICE 114
1 1/2" = 1'-0" 0" 8" 1'-4"





9 A5-1 CEILING DETAIL AT OFFICE 114
1 1/2" = 1'-0" 0" 8" 1'-4"

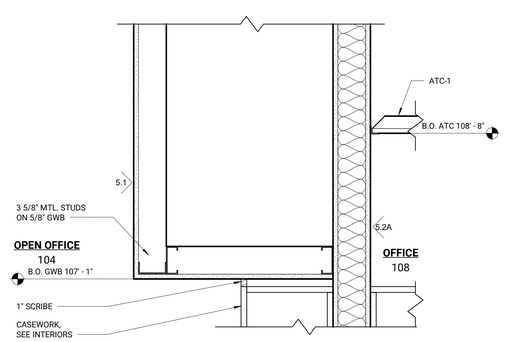




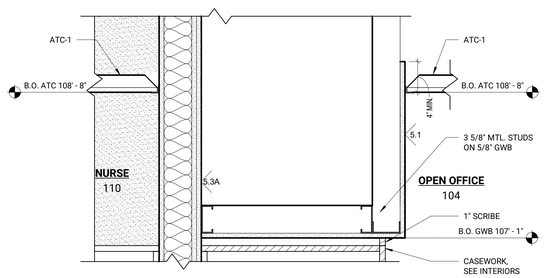
8 A5-1 CEILING DETAIL AT RECEPTION 102
1 1/2" = 1'-0" 0" 8" 1'-4"

7 A5-1 CEILING DETAIL BETWEEN OPEN OFFICE AND CORR.
1 1/2" = 1'-0" 0" 8" 1'-4"

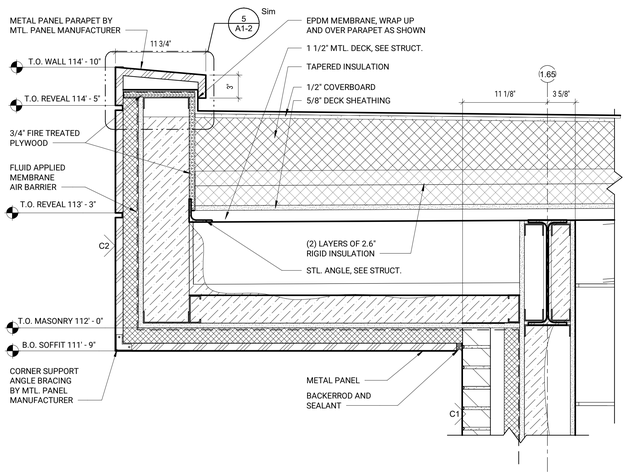
6 A5-1 CEILING DETAIL BETWEEN WORKROOM AND OPEN OFFICE
1 1/2" = 1'-0" 0" 8" 1'-4"



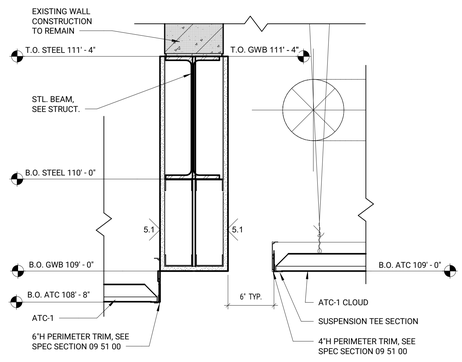
5 A5-1 CEILING DETAIL AT OFFICE 108
1 1/2" = 1'-0" 0" 8" 1'-4"



4 A5-1 CEILING DETAIL THROUGH OPEN OFFICE 104 BULKHEAD
1 1/2" = 1'-0" 0" 8" 1'-4"



3 A5-1 DETAIL SECTION THROUGH LOW END OF SOFFIT
1 1/2" = 1'-0" 0" 8" 1'-4"



2 A5-1 CEILING DETAIL AT ATC CLOUD
1 1/2" = 1'-0" 0" 8" 1'-4"

1 A5-1 REFLECTED CEILING PLAN
1/8" = 1'-0" 0" 8" 16'

TRUE NORTH PLAN NORTH

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

REFLECTED CEILING PLAN

A5-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

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ROOM FINISH SCHEDULE

ROOM NO.	NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING MATERIAL	REMARK
090	SCIENCE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
091	SCIENCE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
093	PREP STORAGE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
100	VEST.	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
100A	VEST.	CPT-3	VB-1	P-1	P-1	P-1	P-1	GWB, P-3	
101	CORRIDOR	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
102	RECEPTION	CPT-1,2	VB-1	*P-1,4	P-1	*P-1,4	*P-1,4	*ATC-1 / EXP STR / GWB, P-3,4	*3,4
103	SRO	CPT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
104	OPEN OFFICE	CPT-1,2	VB-1	P-1	*P-1,4	P-1	*P-1,4	*ATC-1 / GWB, P-3,4	*3,7
104A	CORR.	CPT-1,2	VB-1	P-1	P-1	P-1	P-1	ATC-1	
105	OFFICE	CPT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
106	OFFICE	CPT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
107	PRINCIPAL	CPT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
108	OFFICE	CPT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
109	TECH	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
109A	TECH SYSTEMS	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
110	NURSE	*VCT-1,2	*VB-1	P-1	P-1	P-1	P-1	ATC-1	*6
110A	COTS	VCT-1,2	VB-1	P-1	P-1	P-1	P-1	GWB, P-3	
110B	RR	PT-1	*PT-1	*CT-1	*CT-1	*CT-1	*CT-2	GWB, P-3	*1
111	CORR.	CPT-1	VB-1	P-1	P-1	P-1	P-1	EXIST	
112	MEN	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
113	WOMEN	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
114	OFFICE	CPT-1	VB-1	P-1	P-1	P-1	P-1	ATC-1	
114	OFFICE 5	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
115	DEAN OF STUDENTS	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
116	CORR.	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
117	ISS	EXIST	*EXIST / VB-2	EXIST	EXIST	*EXIST / P-6	EXIST	EXIST	*5
117A	RR	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
118	CONFERENCE	CPT-2	VB-1	P-1	P-1	P-1	P-1	ATC-1	
119	OFFICE 4	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
120	CONFERENCE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
121	WORKROOM	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
122	CORR.	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
123	CORR.	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
124	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
125	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
126	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
127	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
128	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
129	OFFICE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
130	CAREER	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
131	CONFERENCE	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
132	WORK RM	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
133	CORR.	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	
133	RECORDS	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	

CASEWORK GENERAL NOTES

1. ALL UPPER CABINETS SHALL BE MOUNTED WITH T.O. CABINET AT 7'-0" AFF, UNO.
2. CONTRACTOR TO VERIFY SIZES OF OWNER SUPPLIED OR (NIC) ITEMS WHERE COORDINATION IS NECESSARY.
3. ALL EXPOSED FACES OF CASEWORK AT THE END OF RUNS, AT KNEE SPACES, OR AREAS PLANNED FOR EQUIPMENT SHALL BE FINISHED WITH PLASTIC LAMINATE.
4. AT CASEWORK ALL CABINET BODIES, DOORS, AND DRAWERS SHALL BE PL-1, UNO. COUNTERTOPS AND BACKSPLASHES SHALL BE SSM-1, UNO AT ELEVATIONS.
5. AT CUSTOM DESKS, BASE CABINET/DRAWER UNITS SHALL BE PL-1. TRANSACTION TOP AND OTHER COUNTERTOPS AT CUSTOM DESKS SHALL BE SSM-1. SEE ELEVATION AND SECTION DRAWINGS FOR MATERIALS AT FRONT AND SIDE FACES OF CUSTOM DESKS.
6. PROVIDE SCRIBES WHERE CASEWORK ABUTS WALLS AND/OR HEADERS.
7. SEE ELEVATIONS FOR LOCK LOCATIONS.

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 5 & 6 ON A6-2 FOR TYPICAL RESTROOM WALL TILE PATTERNING.
2. DO NOT PROVIDE PAINT AT EXISTING BRICK LOCATIONS.
3. SEE INTERIOR FINISH PLAN FOR LOCATION AND EXTENTS OF ACCENT P-4.
4. SEE RCP FOR ATC-1 CLOUD LOCATIONS. PAINT ALL FACES OF GWB BULKHEAD ABOVE RECEPTION DESK P-4.
5. SEE INTERIOR FINISH PLAN FOR EXTENTS OF P-6 AND VB-2.
6. AT NURSE ROOM, CONTINUE VINYL BASE AND VCT INTO SINK CASEWORK UNIT. SINK CASEWORK UNIT WILL NOT HAVE A FINISHED BOTTOM FOR ICE MACHINE DRAINAGE. COORDINATE VCT WITH DRAIN LOCATION FOR ICE MACHINE.
7. PAINT ALL FACES OF NEW BULKHEAD BETWEEN WORKROOM 121 AND OPEN OFFICE 104 P-4.

INTERIOR FINISH LEGEND

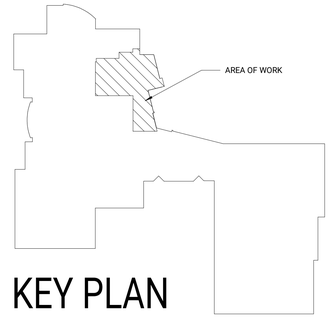
- CPT-1
- CPT-2
- CPT-3
- PT-1, 12"x24"
- CT-1, 4"x16"
- CT-2, 4"x16"
- VCT-1
- VCT-2
- = P-4 WALL ACCENT LOCATIONS. SEE INTERIOR FINISH PLANS AND ROOM FINISH SCHEDULE FOR LOCATIONS.
- = CORNER GUARD (CG) 34"H. INSTALL ABOVE 4" VINYL BASE SO TOP OF CG IS AT 38"AFF. SEE INTERIOR FINISH PLANS FOR LOCATIONS.

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

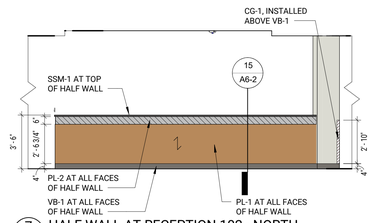
ROOM FINISH LEGEND

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
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE

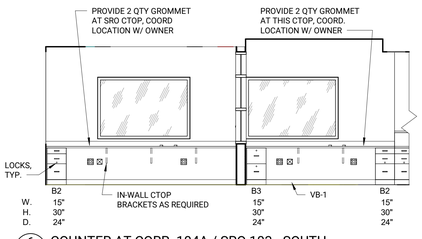
NOTE: THIS SHEET ORIGINALLY PRINTED IN COLOR



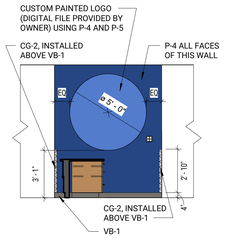
KEY PLAN



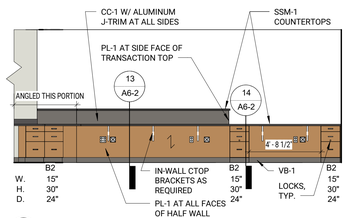
7 A6-1 HALF WALL AT RECEPTION 102 - NORTH
1/4" = 1'-0"



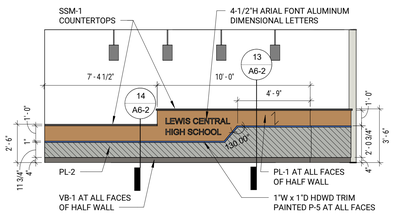
6 A6-1 COUNTER AT CORR. 104A / SRO 103 - SOUTH
1/4" = 1'-0"



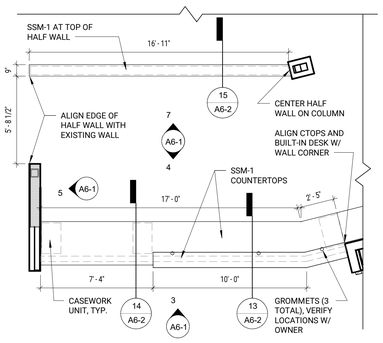
5 A6-1 RECEPTION 102 - WEST
1/4" = 1'-0"



4 A6-1 RECPETION DESK AT RECEPTION 102 - SOUTH
1/4" = 1'-0"



3 A6-1 RECPETION DESK AT RECEPTION 102 - NORTH
1/4" = 1'-0"



2 A6-1 RECEPTION 102 - ENLARGED PLAN
1/4" = 1'-0"

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

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

INTERIOR FINISH PLAN

A6-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

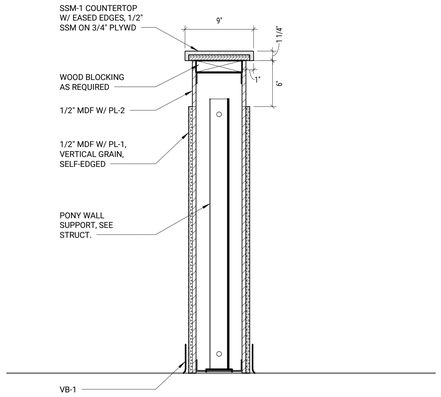
LEFT BINDING EDGE

6/19/2025 1:48:55 PM

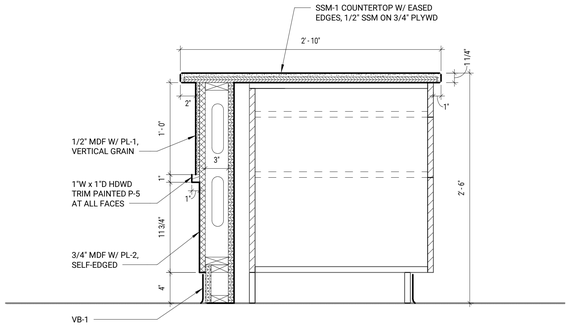
CASEWORK GENERAL NOTES

1. ALL UPPER CABINETS SHALL BE MOUNTED WITH T.O. CABINET AT 7'-0" AFF, UNO.
2. CONTRACTOR TO VERIFY SIZES OF OWNER SUPPLIED OR (NIC) ITEMS WHERE COORDINATION IS NECESSARY.
3. ALL EXPOSED FACES OF CASEWORK AT THE END OF RUNS, AT KNEE SPACES, OR AREAS PLANNED FOR EQUIPMENT SHALL BE FINISHED WITH PLASTIC LAMINATE.
4. AT CASEWORK ALL CABINET BODIES, DOORS, AND DRAWERS SHALL BE PL-1, UNO. COUNTERTOPS AND BACKSPLASHES SHALL BE SSM-1, UNO AT ELEVATIONS.
5. AT CUSTOM DESKS, BASE CABINET/DRAWER UNITS SHALL BE PL-1. TRANSACTION TOP AND OTHER COUNTERTOPS AT CUSTOM DESKS SHALL BE SSM-1. SEE ELEVATION AND SECTION DRAWINGS FOR MATERIALS AT FRONT AND SIDE FACES OF CUSTOM DESKS.
6. PROVIDE SCRIBES WHERE CASEWORK ABUTS WALLS AND/OR HEADERS.
7. SEE ELEVATIONS FOR LOCK LOCATIONS.

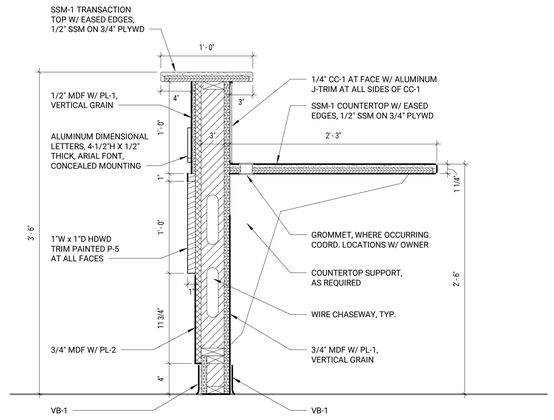
NOTE: THIS SHEET ORIGINALLY PRINTED IN COLOR



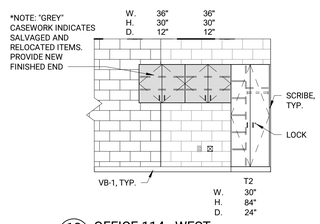
15 A6-2 RECEPTION 102 HALF WALL - SECTION
1 1/2" = 1'-0" 0" 8" 1'-4"



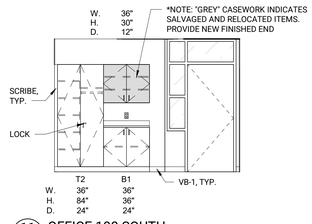
14 A6-2 RECEPTION 102 DESK - SECTION
1 1/2" = 1'-0" 0" 8" 1'-4"



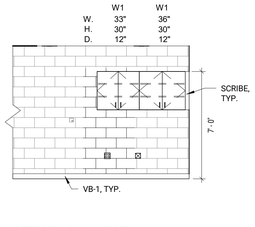
13 A6-2 RECEPTION 102 DESK - SECTION THROUGH TRANSACTION TOP
1 1/2" = 1'-0" 0" 8" 1'-4"



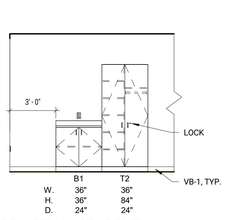
12 A6-2 OFFICE 114 - WEST
1/4" = 1'-0" 0" 4" 8"



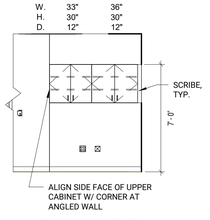
11 A6-2 OFFICE 108 SOUTH
1/4" = 1'-0" 0" 4" 8"



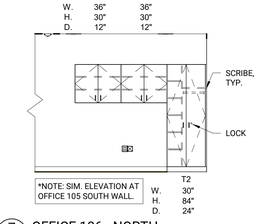
10 A6-2 OFFICE 108 - WEST
1/4" = 1'-0" 0" 4" 8"



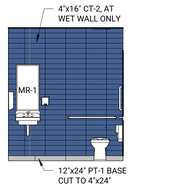
9 A6-2 PRINCIPAL 107 - SOUTH
1/4" = 1'-0" 0" 4" 8"



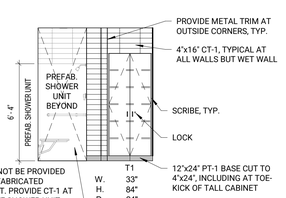
8 A6-2 PRINCIPAL 107 - WEST
1/4" = 1'-0" 0" 4" 8"



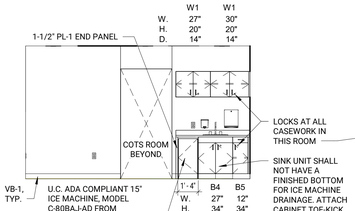
7 A6-2 OFFICE 106 - NORTH
1/4" = 1'-0" 0" 4" 8"



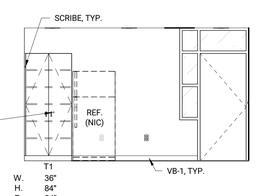
6 A6-2 RR 100B - WEST
1/4" = 1'-0" 0" 4" 8"



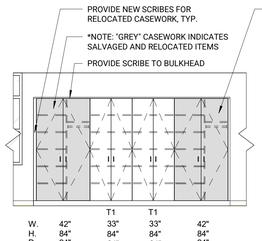
5 A6-2 RR 100B - EAST
1/4" = 1'-0" 0" 4" 8"



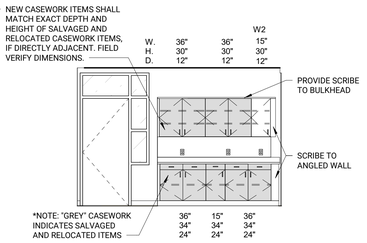
4 A6-2 NURSE 110 - WEST
1/4" = 1'-0" 0" 4" 8"



3 A6-2 NURSE 110 - EAST
1/4" = 1'-0" 0" 4" 8"



2 A6-2 OPEN OFFICE 104 - WEST
1/4" = 1'-0" 0" 4" 8"



1 A6-2 RECEPTION 102 - NORTH
1/4" = 1'-0" 0" 4" 8"

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

INTERIOR ELEVATIONS

A6-2

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

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
SDE	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 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.

STRUCTURAL LIGHT GAUGE FRAMING

1. REFER TO DESIGN DATA & LINTEL SCHEDULE.
2. ALL HORIZONTAL LOAD BEARING MEMBERS, SUCH AS BEAMS AND JOIST, SHALL BE CONSTRUCTED OUT OF UNPUNCHED MEMBERS.
3. UNLESS NOTED OTHERWISE, METAL STUD BEARING WALLS SHALL HAVE WALL STUDS ALIGNED WITH JOIST OR RAFTER ABOVE.
4. LOAD BEARING WALLS SHALL BE SHEATHED WITH GYPSUM WALLBOARD OR OSB SHEATHING ON A MINIMUM OF ONE SIDE. ATTACH SHEATHING TO STUDS WITH #10 SCREWS AT 6" OC AT PANEL EDGES AND 1'-0 OC IN THE FIELD MINIMUM.
5. ALL STUDS IN EXTERIOR WALLS SHALL BE LATERALLY BRACED. BRACING CAN BE EITHER U-CHANNEL BRIDGING AT 4'-0 OC, OR GYPSUM WALLBOARD AND/OR OSB SHEATHING ON BOTH SIDES, UNLESS NOTED OTHERWISE. ATTACH U-CHANNEL BRIDGING TO STUDS WITH SIMPSON SUBH3.25 OR EQUIVALENT. ATTACH SHEATHING TO STUDS WITH #10 SCREWS AT 6" OC AT PANEL EDGES AND 1'-0 OC IN THE FIELD MINIMUM.
6. UNLESS NOTED OTHERWISE, NON-BEARING WALLS SHALL HAVE DEFLECTION TRACKS OR SLIP CONNECTIONS TO ALLOW 3/4" DEFLECTION OF STRUCTURE ABOVE.
7. UNLESS NOTED OTHERWISE, FLOOR OR ROOF SHEATHING SHALL BE ATTACHED TO FLOOR JOIST OR ROOF RAFTERS WITH #10 SCREWS AT 6" OC AT PANEL EDGES AND 1'-0 OC IN THE FIELD MINIMUM.
8. CONTINUE ALL ADDITIONAL STUD FRAMING BELOW BEAMS OR GIRDERS TO THE FOUNDATION.

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 360-10	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 2001 APPENDIX I	WELDING AND MECHANICAL FASTENING	
STEEL JOIST (1705.2.3)	IBC TABLE	END CONNECTIONS AND BRIDGING	
CONCRETE (1705.3)	IBC TABLE 1705.3 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 402-13 / ACI 530-13 TABLE 3.1.2	PREPARATION OF MORTAR AND JOINTS REINFORCEMENT AND CONNECTORS ANCHORAGES AND GROUTING	PRISM TESTING NOT REQUIRED
SOILS (1705.6)	IBC TABLE 1705.6	SITE PREPARATION, COMPACTED FILL	
FABRICATIONS (1705.10)	NA	OFF PREMISES FABRICATIONS	
WIND (1705.11)	NOT REQUIRED	NOT REQUIRED	
SEISMIC (1705.12)	NOT REQUIRED	NOT REQUIRED	

DESIGN DATA

GOVERNING CODE: 2015 INTERNATIONAL BUILDING CODE

FOUNDATION PARAMETERS:

SOIL INVESTIGATION PERFORMED BY ..... Thiel
REPORT NUMBER 25231.01

MINIMUM FOOTING DEPTH FOR FROST (BELOW FINISH GRADE) ..... 42 IN

ALLOWABLE SOIL BEARING PRESSURE:
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.

DESIGN LOADS:

BUILDING RISK CATEGORY III

ROOF LIVE LOAD:
MINIMUM LIVE LOAD ..... 20 PSF

SNOW:
GROUND SNOW (P_g) ..... 25 PSF
FLAT ROOF SNOW (P_f) ..... 19 PSF
MIN FOR DESIGN ..... 25 PSF
SNOW EXPOSURE (C_e) 1.0
THERMAL FACTOR (C_t) 1.0
SLOPE FACTOR (C_s) 1.0
SNOW IMPORTANCE FACTOR (I_s) 1.1
UNBALANCED SNOW LOADS ..... ASCE 7-16 SECTION 7.6
SNOW DRIFTING ..... REFER TO PLAN

RAIN INTENSITY:
60 MIN DURATION ..... 4.3 IN/HR
15 MIN DURATION ..... 8.1 IN/HR

FLOOR LIVE LOAD:
TYPICAL ..... 40 PSF
CORRIDORS ..... 100 PSF

WIND:
ULTIMATE WIND SPEED (V) ..... 120 MPH
ASD WIND SPEED (V_{asd}) ..... 93 MPH
SERVICE WIND (25 YR MRI) ..... 84 MPH
EXPOSURE C
INTERNAL PRESSURE COEFFICIENT 0.18
NET UPLIFT ON JOIST ..... 15 PSF

SEISMIC:
SEISMIC IMPORTANCE FACTOR (I_e) 1.25
SITE CLASS ..... D
S_s 0.092
S_1 ..... 0.045
S_{DS} 0.098
S_{D1} 0.072
SEISMIC DESIGN CATEGORY ..... B
BASIC SEISMIC-FORCE RESISTING SYSTEM:
STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC
ANALYSIS PROCEDURE ..... EQUIV LAT FORCE
SEISMIC RESPONSE COEFFICIENT (CS) 0.041
RESPONSE MODIFICATION COEFFICIENT (R) 3
DESIGN BASE SHEAR ..... 3.5 KIPS

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
ROOF DECK ..... 1 1/2" TYPE "B" 20 GAGE, GALV

STRUCTURAL LIGHT GAUGE FRAMING:
STUDS ..... ASTM A653
JOISTS (UNPUNCHED) ..... ASTM A653
TRACK ..... ASTM A653
YIELD
(33 & 43 MIL) ..... 33 KSI
(54 MIL & ABOVE) ..... 50 KSI
GALVANIZING G-60
DEFL. CLIP
(33 & 43 MIL) ..... 3 1/2" 14 GA FAST CLIP SLIDE CLIP (FCSC) MIN (2) .157" PAF TO STRUCTURE
(54 MIL & ABOVE) ..... 5 1/2" 12 GA FAST CLIP SLIDE CLIP (FCSC) MIN (4) .157" PAF TO STRUCTURE

BCDM architects

PROJECT TEAM

ARCHITECTURE + INTERIORS
BCDM ARCHITECTS
1015 North 98th Street, Suite 300
Omaha, NE 68114

CIVIL ENGINEER
LAMP RYNEARSON
14710 W. Dodge Rd. Suite 100
Omaha, NE 68154

STRUCTURAL ENGINEER
LANGE STRUCTURAL GROUP
1919 S 40th Street Suite 302
Lincoln, NE 68506

MECHANICAL + ELECTRICAL ENGINEER
ALVINE
1201 Cass Street
Omaha, NE 68102

REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

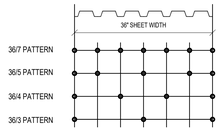
STRUCTURAL NOTES & DESIGN DATA

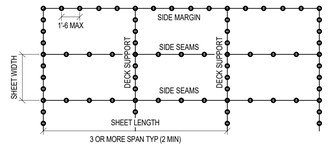
S1-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

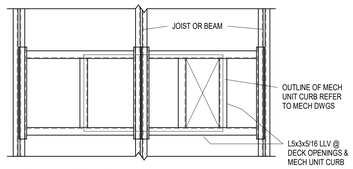
	FASTENERS		
LOCATION	DECK SUPPORT	SIDE MARGIN	SIDE SEAM
ROOF	5/8" PUDDLE WELD	5/8" PUDDLE WELD	#12 TEK SCREW
	36/4	12" OC	3 / SPAN

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

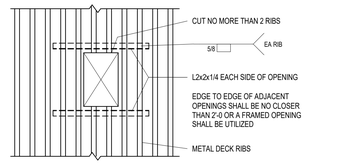




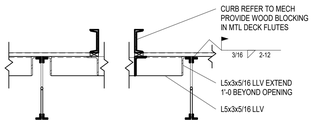
METAL DECK ATTACHMENT SCHEDULE



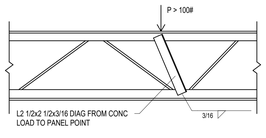
TYPICAL FRAMED OPENING IN METAL DECK



TYPICAL UNFRAMED OPENING IN METAL DECK



TYPICAL FRAMED OPENING SECTION

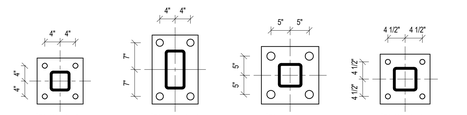


JOIST REINFORCING FOR OFF PANEL CONCENTRATED LOADS

METAL DECK OPENING STANDARD 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



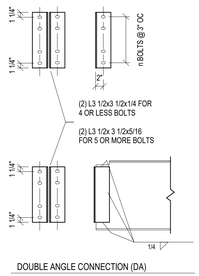
ADHESIVE ANCHOR THREADED ROD w/ 9" EMBED AT EXISTING

BASE PLATE AND ANCHOR BOLT SCHEDULE

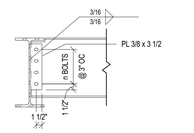
NUMBER OF 3/4" A325 BOLTS REQ'D PER BEAM CONNECTION

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

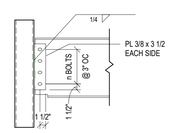
NOTES:
1. ALL PRIMARY BEAM CONNECTIONS SHALL USE DBL ANGLE OR DBL PLATE CONNECTIONS



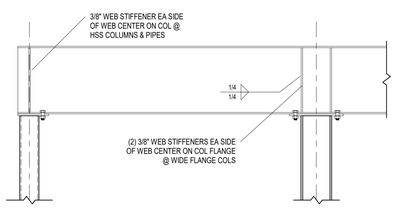
DOUBLE ANGLE CONNECTION (DA)



SINGLE PLATE CONNECTION (SP)

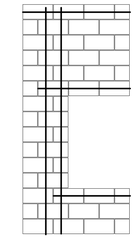


DOUBLE PLATE CONNECTION (DP)



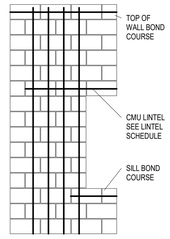
BEAM FRAMES OVER COLUMN

BEAM CONNECTION SCHEDULE AND TYPICAL DETAILS

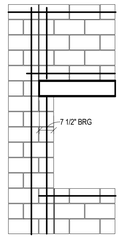


7 1/2" LINTEL BRG

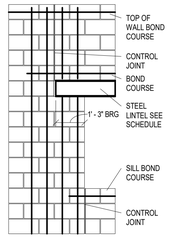
OPENINGS WITH CMU LINTELS



1'-3 LINTEL BRG



7 1/2" LINTEL BRG



1'-3 LINTEL BRG

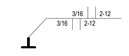
OPENINGS WITH STEEL OR PRECAST LINTELS

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

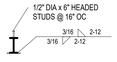
MASONRY LINTEL SCHEDULE				
MARK	TYPE	BRG	DESCRIPTION	NOTE
ML-1	3	7 5/8"	W16x40 w/ 1/4x7 BOTTOM PL	OMIT STUDS - REFER TO PLAN DETAILS
ML-2	5	7 5/8"	W16x40 + C6x8.2 w/ 1/4x18 BOTTOM PL	REFER TO PLAN DETAILS FOR ADDT'L INFO
BL-1	BR1	7 5/8"	L5x5x5/16	

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

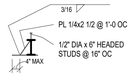


BACK-TO-BACK ANGLES
TYPE 1

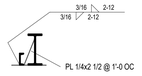
CMU LINTEL
TYPE 2



STL BEAM w/ BOT PL
TYPE 3



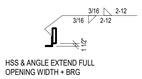
STL BEAM w/ EXT BOT PL
TYPE 4



STL BEAM w/ STIFFENED BOT PL
TYPE 5

SINGLE ANGLE
TYPE BR1

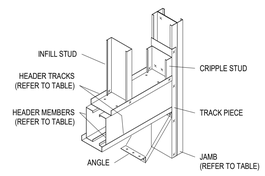
HSS & PL EXTEND FULL OPENING WIDTH + BRG
HSS w/ BOT PL
TYPE BR2



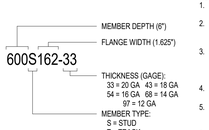
HSS & ANGLE EXTEND FULL OPENING WIDTH + BRG
HSS w/ ANGLE
TYPE BR3

MASONRY LINTEL SCHEDULE

MARK	HEAD	SILL	JAMB	JAMB CONNECTORS	NOTE
L-1	(2) 600S162-43 & (2) 600T125-43	(1) 600T125-43	(1) 600S162-43 & (1) 600T125-43	SIMPSON SSC4.25 @ BASE SIMPSON SSC4.25 @ BEAM	

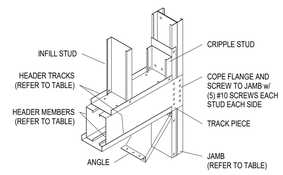


NON-BEARING HEADER DETAIL

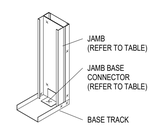


SSMA MEMBER DESIGNATION GUIDE

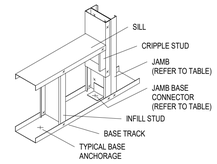
NOTES:
1. REFER TO DETAILS BELOW.
2. LINTEL MEMBERS SHALL BE ATTACHED TOGETHER WITH (2) #10 SCREWS OR 1/8" GROOVE WELDS EA SIDE AT 2'-0 OC.
3. JAMB AND SILL MEMBERS SHALL BE ATTACHED TOGETHER WITH (2) #10 SCREWS OR 1/8" GROOVE WELDS EA SIDE AT 4'-0 OC.
4. LINTEL MEMBERS SHALL HAVE UNPUNCHED WEBS.
5. CONNECTION ANGLE SHALL BE 16 GAUGE L1 1/2x1 1/2 ATTACH TO JAMB AND SILL OR HEAD WITH (2) #10 SCREWS.
6. CRIPPLE STUDS SHALL BE SAME SIZE AND GAUGE AS JAMB STUD, ATTACH TO JAMB WITH (4) #10 SCREWS.
7. REFER TO DESIGN DATA FOR DEFLECTION CLIPS.



BEARING HEADER DETAIL



TYPICAL JAMB BASE DETAIL

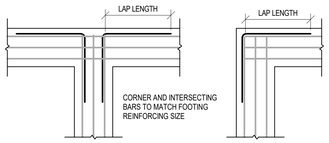


TYPICAL SILL DETAIL

METAL STUD LINTEL SCHEDULE AND TYPICAL FRAMING DETAILS

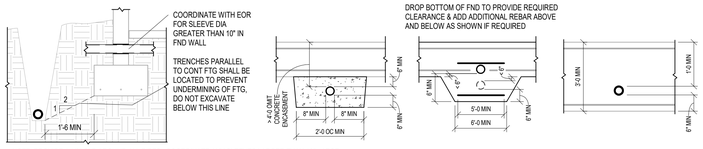
1.2 CONTINUOUS FOOTING SCHEDULE			
MARK	WIDTH	DEPTH	REINFORCING
CF-1	1' - 0"	3' - 4"	(2) #5 TOP & BOTTOM
CF-2	1' - 4"	3' - 4"	(2) #5 TOP & BOTTOM
CF-3	1' - 8"	3' - 4"	(3) #5 TOP & BOTTOM
CF-4	4' - 0"	3' - 4"	(6) #5 TOP & BOTTOM

1.2 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	5' - 0"	5' - 0"	3' - 4"	(7) #5 EA WAY TOP & BOTTOM



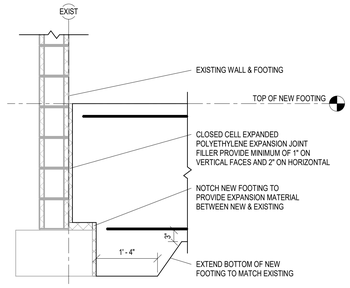
CONTRACTOR TO PROVIDE #4 STIRRUPS AT 4'-0 OC OR ALTERNATE MEANS OF SUPPORT FOR REBAR IN CONTINUOUS FOOTINGS

FOOTING SCHEDULES

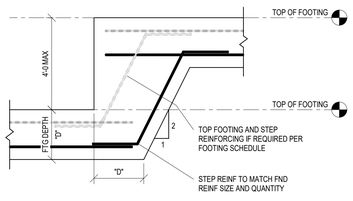


NOTE: PROVIDE 1 1/2" CLR AROUND ALL PIPES. COORDINATE ANY SLEEVES LARGER THAN 10" w/ EOR

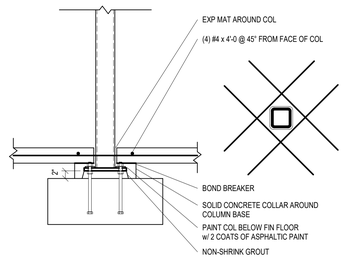
TYPICAL FOOTING DETAILS AT UNDERGROUND PLUMBING



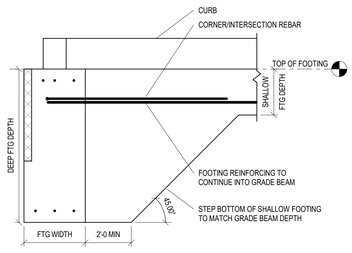
FOOTING AT EXIST STRUCTURE



TYPICAL FOOTING STEP



TYPICAL COLUMN BASE DETAIL



SHALLOW FOOTING BUTTING TO GRADE BEAM

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

STRUCTURAL SCHEDULES

S1-2

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

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
   F-X FOOTING MARK
   XX-X TOP OF FOOTING
5. MATCH BEARING DEPTH OF EXISTING FOOTING PER EXISTING DRAWINGS (FIELD VERIFY).EXISTING TOP OF FTG = 99'-4 EXISTING BOT OF FTG = 96'-2 (3'-2 DEEP)
6. OMIT EXTERIOR CURB AT DOOR OPENINGS

FOUNDATION KEYNOTES

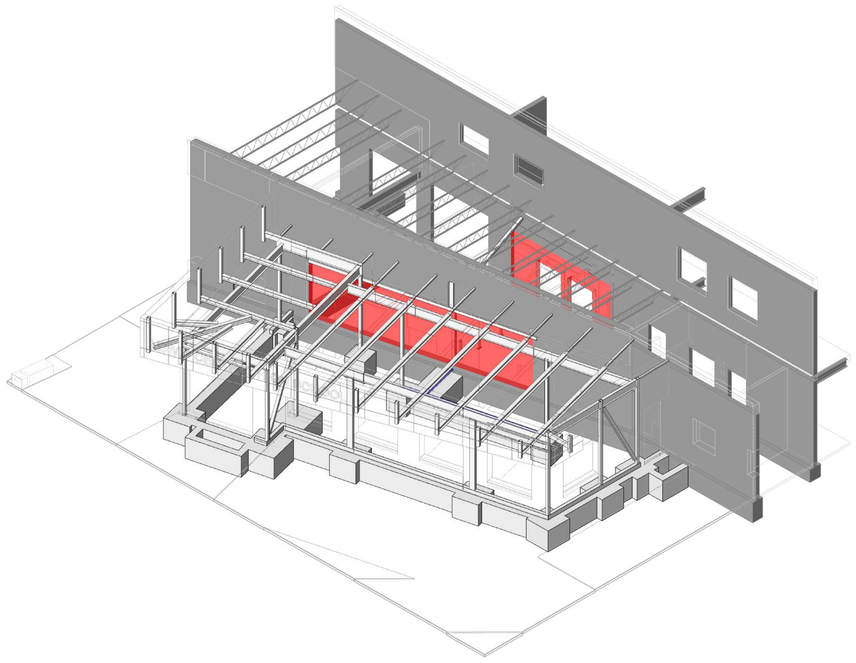
[#] REFER TO PLAN FOR LOCATION

101 4" CIP SLAB ON PROPERLY PREPARED SUBGRADE REFER TO SOILS REPORT. REINFORCE w/ 6x6 W1.4xW1.4 WWF. REFER TO ARCH FOR VAPOR BARRIER.

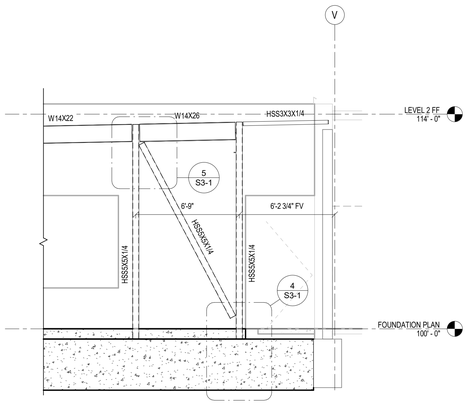
102 PROVIDE DOWELS TO EXISTING FTG. MATCH GRADE BEAM REINFORCEMENT PROVIDE 2'-6 LAP. DRILL AND ADHESIVE ANCHOR w/ 1'-6 EMBEDMENT.

103 CLARK DIETRICK PW36 @ 4'-0 OC (MAX). ATTACH TO SLAB w/ (4) 1/2 EXP AHR 3 5/8 NOM EMBED.

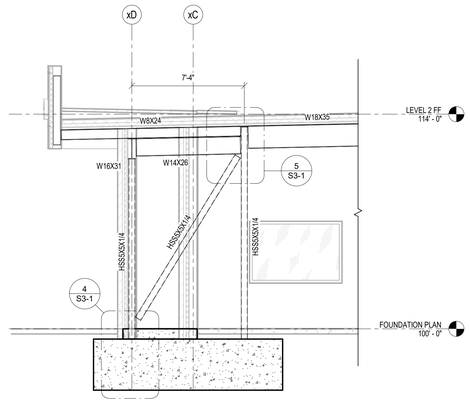
104 REPLACE CONCRETE AT CUT LOCATIONS PER TYPICAL SLAB ON GRADE CONSTRUCTION [101]. PROVIDE #4x12 SMOOTH DOWEL w/ 6" EMBED (OR EQUIV) @ 2'-0 OC ALONG PERIMETER.



4 S2-1 STRUCTURAL AXON
0' 8' 16'



3 S2-1 BRACE 1
1/4" = 1'-0"
0' 4' 8'



2 S2-1 BRACE 2
1/4" = 1'-0"
0' 4' 8'

1 S2-1 FOUNDATION PLAN
1/8" = 1'-0"
0' 8' 16'

TRUE NORTH
PLAN NORTH

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FOUNDATION PLAN

S2-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

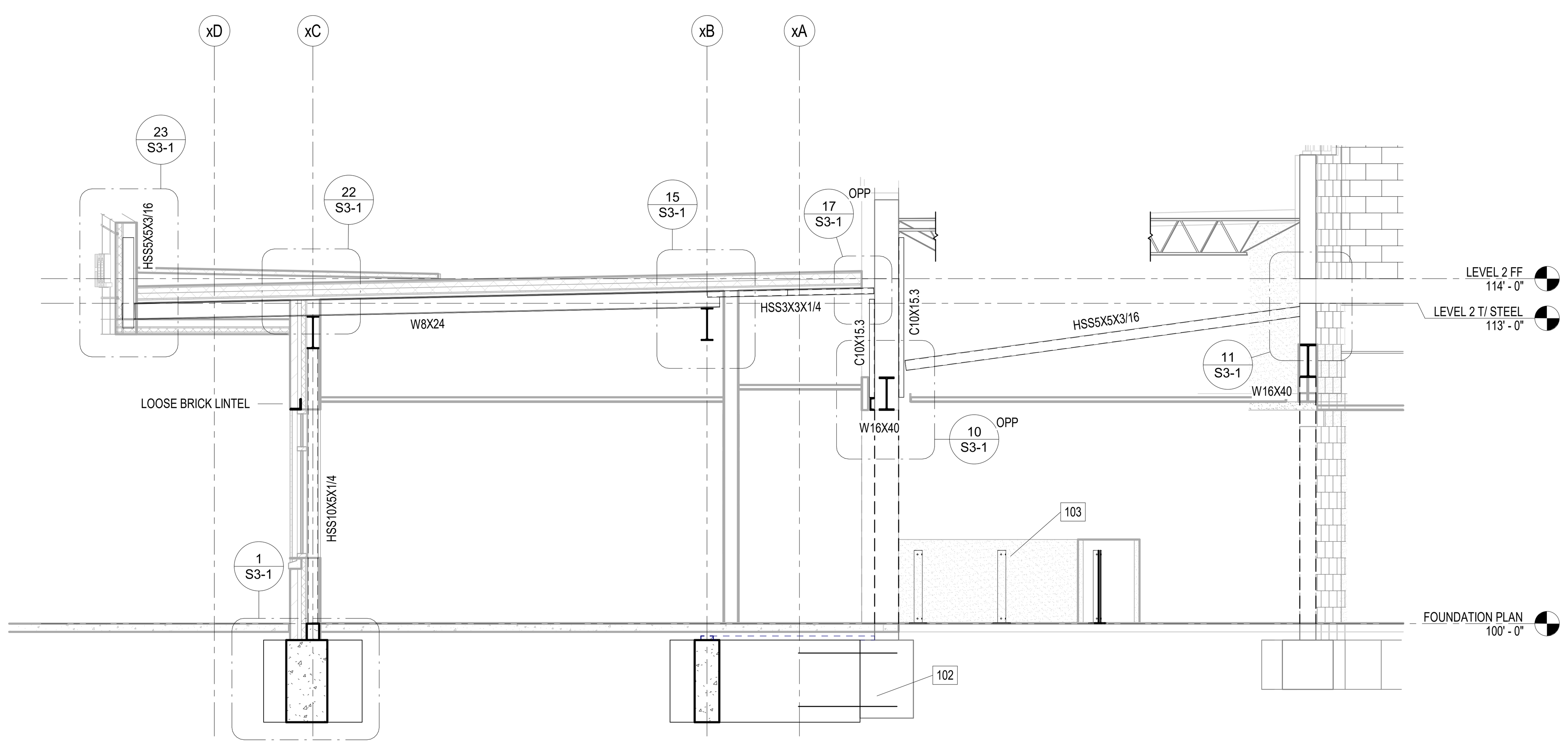
GENERAL ROOF PLAN NOTES

1. REFER TO DESIGN DATA, SCHEDULES & TYP DETAILS
2. # INDICATES KEYNOTE REFER TO PLAN FOR LOCATION
3. UNLESS NOTED OTHERWISE ALL DIMENSIONS ARE TO FACE OF WALL FRAMING OR CENTERLINE OF COLUMNS
4. FRAMING KEY
   - BEAR ON COLUMN
   - 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

SHEET KEYNOTES

#	REFER TO PLAN FOR LOCATION
102	PROVIDE DOWELS TO EXISTING FTG. MATCH GRADE BEAM REINFORCEMENT PROVIDE 2'-6 LAP. DRILL AND ADHESIVE ANCHOR w/ 1'-6 EMBEDMENT.
103	CLARK DIETRICK PW36 @ 4'-0 OC (MAX). ATTACH TO SLAB w/ (4) 1/2 EXP AHR 3 5/8 NOM EMBED.
201	NEW CMU LINTEL IN EXISTING WALL. SHORING OF EXISTING WALL IS RESPONSIBLITY OF CONTRACTOR. REFER TO CUT DETAILS.
202	CONTINUE DECK SPANNING N/S TO FIRST JOIST SOUTH OF GRID X3
203	NEST HSS 2x1 1/2 IN FLUTE OF DECK
204	MITRE AND WELD L6x4x5/16 DECK ANGLE WRAPPING OVERHANG

1 ADDITION ROOF FRAMING
1/8" = 1'-0" 0' 8' 16'



2 FULL STRUCTURAL SECTION
1/4" = 1'-0" 0' 4' 8'

TRUE NORTH PLAN NORTH

BCDM architects

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REVISION SCHEDULE

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LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

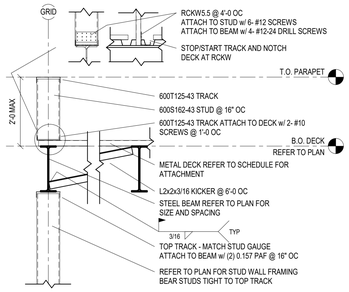
3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

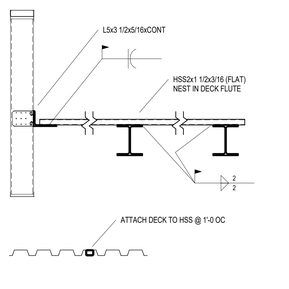
ADDITION ROOF FRAMING PLAN

S2-2

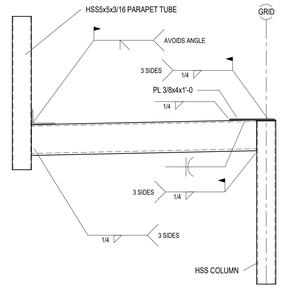
CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025



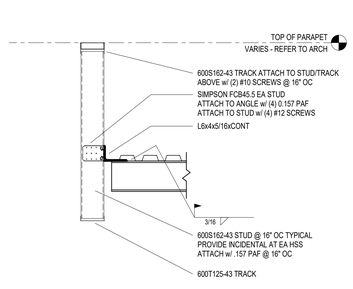
27 S3-1 ROOF-STL-END WALL ON GRID - SHORT PARAPET
3/4" = 1'-0" 0" 1'-4" 2'-8"



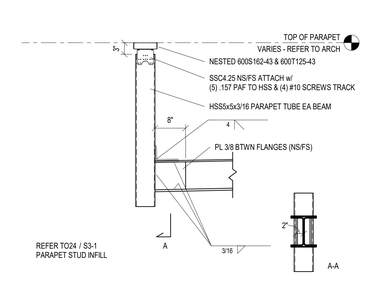
26 S3-1 HSS NEST IN DECK FLUTE AT OVERHANG
3/4" = 1'-0" 0" 1'-4" 2'-8"



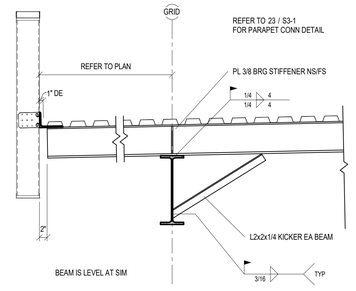
25 S3-1 STL-ROOF JOIST PARAPET OUTRIGGER
3/4" = 1'-0" 0" 1'-4" 2'-8"



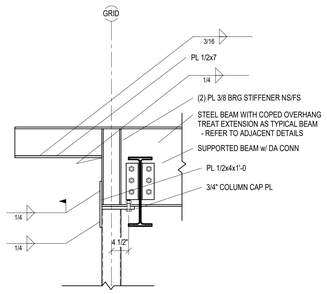
24 S3-1 PARAPET INFILL
3/4" = 1'-0" 0" 1'-4" 2'-8"



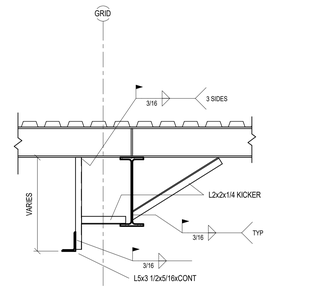
23 S3-1 STL-ROOF JOIST PARAPET CONN
3/4" = 1'-0" 0" 1'-4" 2'-8"



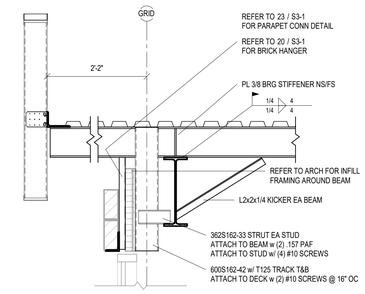
22 S3-1 STL-ROOF BEAM OH SLOPED
3/4" = 1'-0" 0" 1'-4" 2'-8"



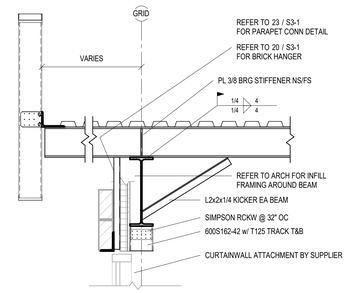
21 S3-1 STL-ROOF BEAM OH AT CURTAINWALL - COPE
3/4" = 1'-0" 0" 1'-4" 2'-8"



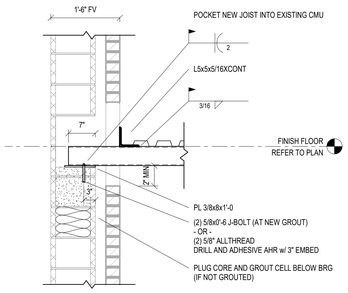
20 S3-1 BRICK HANGER AT CURTAINWALL
3/4" = 1'-0" 0" 1'-4" 2'-8"



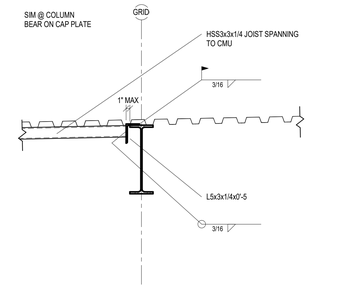
19 S3-1 STL-ROOF BEAM OH AT CURTAINWALL - SOUTH
3/4" = 1'-0" 0" 1'-4" 2'-8"



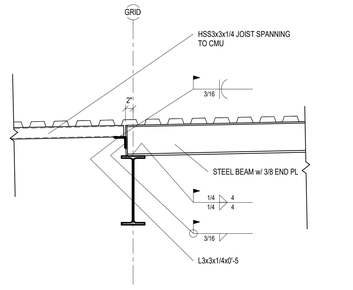
18 S3-1 STL-ROOF BEAM OH AT CURTAINWALL - EAST
3/4" = 1'-0" 0" 1'-4" 2'-8"



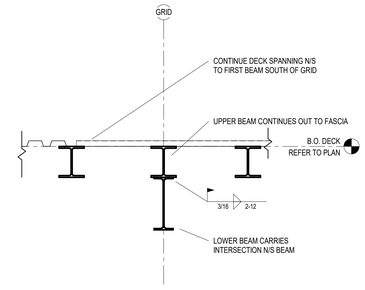
17 S3-1 HSS JOIST AT EXISTING
3/4" = 1'-0" 0" 1'-4" 2'-8"



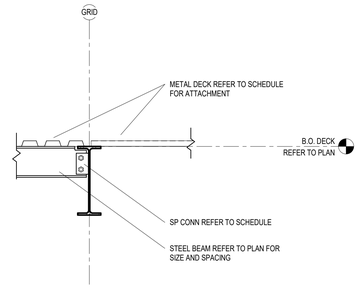
16 S3-1 HSS EAR HANGER
3/4" = 1'-0" 0" 1'-4" 2'-8"



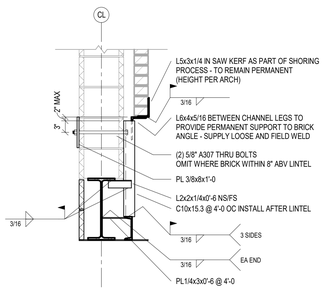
15 S3-1 HSS SEAT AT BEAM
3/4" = 1'-0" 0" 1'-4" 2'-8"



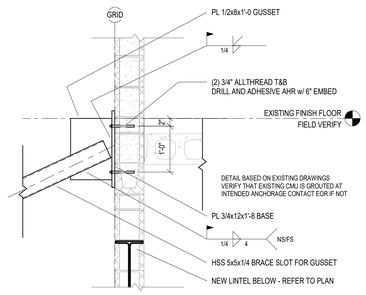
14 S3-1 ROOF-STL-TURN DECK 2
3/4" = 1'-0" 0" 1'-4" 2'-8"



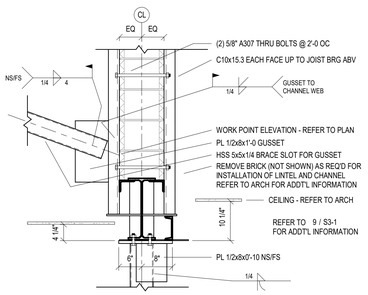
13 S3-1 ROOF-STL-TURN DECK
3/4" = 1'-0" 0" 1'-4" 2'-8"



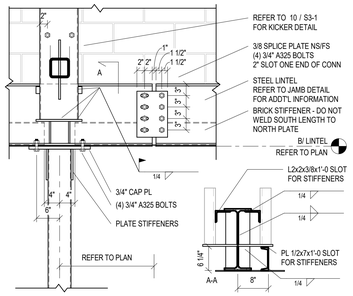
12 S3-1 LINTEL WITH RAISED BRICK
3/4" = 1'-0" 0" 1'-4" 2'-8"



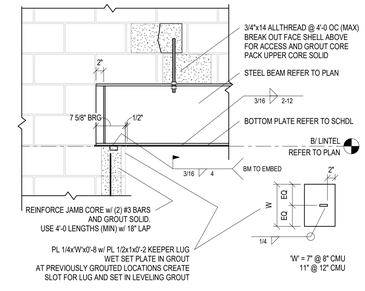
11 S3-1 HSS KICKER ACROSS HALLWAY - TOP
3/4" = 1'-0" 0" 1'-4" 2'-8"



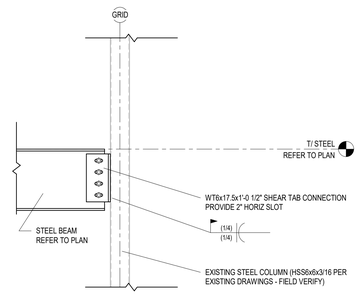
10 S3-1 HSS KICKER ACROSS HALLWAY - BOTTOM
3/4" = 1'-0" 0" 1'-4" 2'-8"



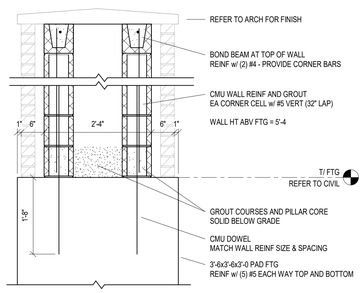
9 S3-1 HEAVY LINTEL AT COLUMN - SIDE
3/4" = 1'-0" 0" 1'-4" 2'-8"



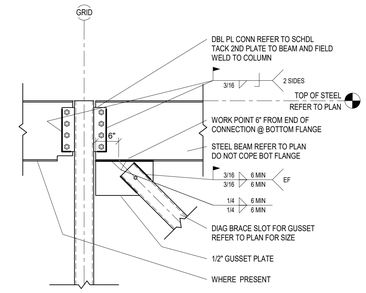
8 S3-1 HEAVY LINTEL IN EXISTING
3/4" = 1'-0" 0" 1'-4" 2'-8"



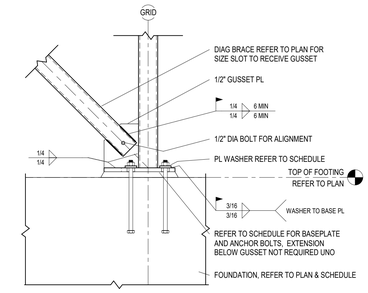
7 S3-1 LINTEL ATTACH TO COLUMN
3/4" = 1'-0" 0" 1'-4" 2'-8"



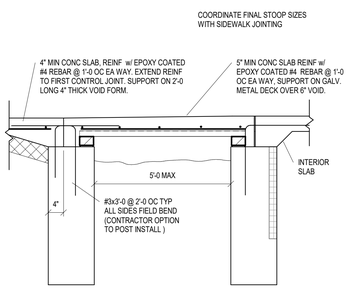
6 S3-1 FND-CMU-MONUMENT
3/4" = 1'-0" 0" 1'-4" 2'-8"



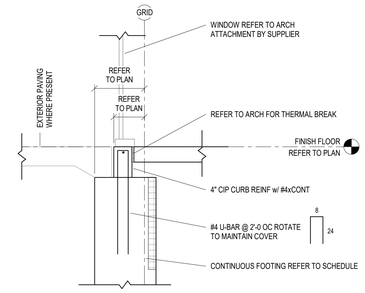
5 S3-1 BR BELOW BM - COL STOPS
3/4" = 1'-0" 0" 1'-4" 2'-8"



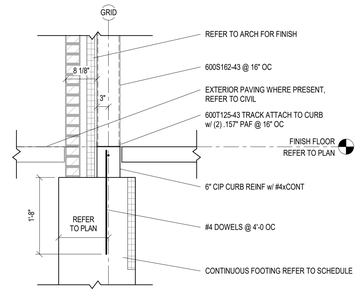
4 S3-1 BR FND - TYPICAL
3/4" = 1'-0" 0" 1'-4" 2'-8"



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



2 S3-1 FND-CIP-CURB @ WINDOW
3/4" = 1'-0" 0" 1'-4" 2'-8"



1 S3-1 FND-MS-CIP CURB-BRICK
3/4" = 1'-0" 0" 1'-4" 2'-8"

BCDM architects

PROJECT TEAM

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REVISION SCHEDULE

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

STRUCTURAL DETAILS

S3-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

LEFT BINDING EDGE

6/18/2025 10:28:20 PM

MECHANICAL SYMBOLS

MECHANICAL PIPING AND PLUMBING SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AUTOMATIC CONTROL VALVE, 2-WAY		FLEXIBLE PIPING		PIPE CONTINUATION
	AUTOMATIC CONTROL VALVE, 3-WAY		UNION		PIPE CAP
	BALANCING VALVE		PIPE IN SLEEVE	FS	FLOW SWITCH
	ISOLATION VALVE (BALL OR BUTTERFLY)		CONCENTRIC REDUCER		AQUASTAT
	CHECK VALVE (ARROW INDICATED FLOW)		ECCENTRIC REDUCER INVERT	HB	HOSE BIBB
	GLOBE VALVE		ECCENTRIC REDUCER CROWN	WH	WALL HYDRANT
	GAS COCK		PIPE PITCH DOWN	PH	POST HYDRANT
	MANUAL AIR VENT		ARROW INDICATED FLOW DIRECTION	SH	SHOWER
V	VACUUM BREAKER	CO OR CO	CLEAN OUT	VTR	VENT THROUGH ROOF ON RISER
BFP	BACKFLOW PREVENTER	GOD	GRADE CLEAN OUT		
	SIGHT GLASS		VALVE IN VERTICAL PIPE		
	PRESSURE GAUGE WITH GAUGE COCK	"FD-X" "FD-X"	FLOOR DRAIN SIZE-TYPE (ROUND OR SQUARE)	"DS-X"	DOWNSPOUT NOZZLE SIZE-TYPE
P T	PRESSURE OR TEMPERATURE MEASURING POINTS	"FS-X"	FLOOR SINK SIZE-TYPE		
	PRESSURE RELIEF VALVE	"RD-X" "OD-X"	ROOF DRAIN AND OVERFLOW DRAIN SIZE-TYPE		THERMOMETER, BOTTOM FEED
	PRESSURE REGULATING VALVE (PRV)		SOLENOID VALVE (REFRIG)		THERMOMETER, SIDE FEED
	PRESSURE REDUCING VALVE		THERMOSTATIC EXPANSION VALVE (REFRIG)		IN-LINE PUMP
PTT	PRESSURE / TEMPERATURE TEST PORT	L" W"	EXPANSION LOOP, LENGTH AND WIDTH	#/HR	F AND T TRAP CAP LBS/HR
M	WATER OR GAS METER	FT-1 MBH	FINTUBE -TYPE (SHADED AREA INDICATES CAPACITY MBH ELEMENT LOCATION)	#/HR	BUCKET TRAP CAP LBS/HR
	AUTOMATIC AIR VENT		DOUBLE GRADE CLEANOUT		NEW TO EXISTING CONNECTION
	MANUAL AIR VENT WITH ISOLATION VALVE	X X	MECH EQUIPMENT WITH ELEC CONNECTION. SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE.		POINT OF DISCONNECT
	STRAINER WITH DRAIN VALVE AND HOSE END	(E)	DESIGNATES UTILITIES AND EQUIPMENT MARKS WHICH ARE EXISTING		

HEATING - VENTILATING - AIR-CONDITIONING SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
XX	AQ - AIR QUALITY SENSOR, AS - ALARM STROBE A - AQUASTAT, CO - CARBON MONOXIDE SENSOR CO/CO2 - CARBON MONOXIDE / NITROGEN DIOXIDE SENSOR, P - DPT PRESSURE SENSOR, NO2 - NITROGEN DIOXIDE SENSOR, NOX - NITROUS OXIDE SENSOR, RD - REFRIGERANT DETECTOR, SL - STROBE LIGHT		RETURN, EXHAUST, OR RELIEF AIR DUCT END OR RISER (RA) (EA) (RLFA)	A	AUTOMATIC DAMPER
		X / X	RECTANGULAR DUCTWORK (FIRST NUMBER IS THE SIDE SHOWN)	SA	SOUND ATTENUATOR
CO2	CO2 SENSOR	X Ø	ROUND DUCT		FLEX CONNECTION
H	HUMIDISTAT				
S	REMOTE SENSOR	X / X Ø	FLAT OVAL (FIRST NUMBER IS THE SIDE SHOWN)	SIZE TYPE CFM	SUPPLY REGISTER OR GRILLE
T T	THERMOSTAT				
T RS	THERMOSTAT WITH REMOTE SENSOR		VOLUME DAMPER	SIZE TYPE CFM	RETURN REGISTER OR GRILLE
	HEATING RISER				
OR	BREAK / CONTINUATION	M	MOTORIZED DAMPER	X X X	TYP DIFFUSER NECK SIZE, MARK CFM
AD	ACCESS DOOR - SIZE AS SHOWN OR PER SPEC	FRD	FIRE DAMPER WITH ACCESS DOOR	X X X	TYP EXHAUST/RETURN GRILLE NECK SIZE, MARK CFM
	ELBOW WITH TURNING VANES	FSD M	COMBINATION FIRE AND SMOKE DAMPER WITH ACCESS DOOR		NEW TO EXISTING CONNECTION
	SUPPLY, OUTDOOR, OR MIXED AIR DUCT END OR RISER (SA) (OA) (MA)	SD M	SMOKE DAMPER WITH ACCESS DOOR		POINT OF DISCONNECT

MECHANICAL PIPING AND PLUMBING SYSTEMS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CWS	CHILLED WATER SUPPLY	FOS	FUEL OIL SUPPLY	W	SITE WATER PIPING
CWR	CHILLED WATER RETURN	FOR	FUEL OIL RETURN		COLD WATER (CW)
HWS	HOT WATER SUPPLY	FOV	FUEL OIL VENT		HOT WATER (HW)
HWR	HOT WATER RETURN	RL	REFRIGERANT LIQUID		HOT WATER CIRCULATING (HWC)
HPWS	HEAT PUMP WATER SUPPLY	RS	REFRIGERANT SUCTION	140°-	HOT WATER 140°
HPWR	HEAT PUMP WATER RETURN	RD	REFRIGERANT HOT GAS DISCHARGE	140°-	HOT WATER CIRCULATING 140°
GS	GLYCOL SUPPLY	SAN	SANITARY DRAIN	S	COLD SOFT WATER
GR	GLYCOL RETURN	S	STORM DRAIN	S	HOT SOFT WATER
CS	CONDENSER WATER SUPPLY FROM TOWER	OF	OVERFLOW STORM DRAIN	S	HOT SOFT WATER CIRCULATING
CR	CONDENSER WATER RETURN TO TOWER	SSD	SUB SOIL DRAIN	RO	REVERSE OSMOSIS COLD WATER
LPR	LOW PRESSURE CONDENSATE RETURN	KW	KITCHEN WASTE	RO	REVERSE OSMOSIS HOT WATER
LPS	LOW PRESSURE STEAM	KV	KITCHEN VENT	RO	REVERSE OSMOSIS WATER CIRCULATING
MPR	MEDIUM PRESSURE CONDENSATE RETURN	GW	GARAGE WASTE	NP	NON-POTABLE COLD WATER
MPS	MEDIUM PRESSURE STEAM	AW	ACID WASTE	NP	NON-POTABLE HOT WATER
HPR	HIGH PRESSURE CONDENSATE RETURN	AV	ACID VENT	NP	NON-POTABLE HOT WATER CIRCULATING
HPS	HIGH PRESSURE STEAM	V	VENT	G	NATURAL GAS
CO	COIL OR EQUIPMENT DRAIN	ST	SITE STORM SEWER	A	COMPRESSED AIR
PC	CONDENSATE OR BOILER FEEDPUMP DISCHARGE	SS	SITE SANITARY SEWER	IW	INDIRECT WASTE

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS AND ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

SPRINKLER NOTE:

INDICATED AREAS OF THE BUILDING SHALL HAVE FIRE PROTECTION SPRINKLER SYSTEM INSTALLED TO MEET THE REQUIREMENTS OF NFPA CODES, THE STATE FIRE MARSHAL'S OFFICE, AND THE OWNERS APPROVING INSURANCE AGENCY. SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL CEILING MOUNTED SPRINKLER HEADS TO AVOID ANY AND ALL INTERFERENCE WITH ALL OTHER TRADES. IF CONFLICTS DO OCCUR SUCH THAT LIGHTS, DUCTS, DIFFUSERS , GRILLES, OR CEILING SYSTEMS CANNOT BE INSTALLED IN THEIR REQUIRED LOCATIONS DUE TO SPRINKLER PIPING INTERFERENCE, THE PIPING SHALL BE RELOCATED OR REROUTED AT NO ADDITIONAL EXPENSE TO THE PROJECT. SPRINKLER CONTRACTOR SHALL MAINTAIN AN ADEQUATE SUPPLY OF EXTRA PIPING, FITTINGS, AND NECESSARY TOOLS TO MAKE FIELD MODIFICATIONS WITHOUT DELAY. AN APPROVED SPRINKLER SHOP DRAWING DOES NOT PRECLUDE REROUTING IF SO ORDERED BY THE ARCHITECT/ENGINEER .

MECHANICAL SYMBOLS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	DDCV	DOUBLE DETECTOR CHECK VALVE ASSEMBLY BACKFLOW PREVENTER	GA	GAUGE	NIC	NOT IN CONTRACT
AHJ	AUTHORITY HAVING JURISDICTION	DIA	DIAMETER	GALV	GALVANIZED	NO	NORMALLY OPEN
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS	DISC	DISCONNECT	GC	GENERAL CONTRACTOR	NOM	NOMINAL
		DIST	DISTRIBUTION	GEN	GENERATOR	NPW	NON-POTABLE WATER
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	DN	DOWN	GPM	GALLONS PER MINUTE	NTS	NOT TO SCALE
ASTM	STANDARD SPECIFICATIONS OF THE AMERICAN SOCIETY FOR TESTING MATERIALS	DPAC	DRY PIPE AIR COMPRESSOR	GW	GARAGE WASTE	OA	OUTDOOR AIR
		DPS	DOOR POSITION SWITCH	HGT	HEIGHT	OC	ON CENTER
AUX	AUXILIARY	DPV	DRY PIPE VALVE	HP	HORSEPOWER	PERP	PERPENDICULAR
AV	ACID VENT	DWG	DRAWING	HTG	HEATING	PIV	POST INDICATOR VALVE
AVG	AVERAGE	DX	DIRECT EXPANSION	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	PLBG	PLUMBING
AW	ACID WASTE	EA	EXHAUST AIR	HZ	HERTZ, HIGH ZONE WET STANDPIPE	PNL	PANEL
AWG	AMERICAN WIRE GAUGE	EHC	ELECTRIC HEATING COIL	IE	INVERT ELEVATION	PS	PLASTER SINK
BMCS	BUILDING MANAGEMENT CONTROL SYSTEM	EL	ELEVATION	IP	INTERNET PROTOCOL	PSF	POUNDS PER SQUARE FOOT
		ELEC	ELECTRICAL	KW	KILOWATT	PSI	POUNDS PER SQUARE INCH
BFP	DOUBLE CHECK BACKFLOW PREVENTER	EMS	ENERGY MANAGEMENT SYSTEM	LBS	POUNDS	PVC	POLYVINYL CHLORIDE
		EOA	ECONOMIZER OUTDOOR AIR	LZ	LOW ZONE WET STANDPIPE	PWR	POWER
BLDG	BUILDING	EPO	EMERGENCY POWER OFF	MA	MIXED AIR	RA	RETURN AIR
BTU	BRITISH THERMAL UNIT	EQUIP	EQUIPMENT	MAX	MAXIMUM	REQD	REQUIRED
BTUH	BRITISH THERMAL UNIT PER HOUR	EXH	EXHAUST	MBH	1000 BTU/HOUR	RGS	RIGID GALVANIZED STEEL
CFH	CUBIC FEET PER HOUR	EXIST	EXISTING	MECH	MECHANICAL	RH	RELATIVE HUMIDITY
CFM	CUBIC FEET PER MINUTE	F	FIRE WATER	MERV	MINIMUM EFFICIENCY REPORTING VALUE	RLFA	RELIEF AIR
CL	CENTER LINE	FA	FIRE ALARM			RM	ROOM
CLG	CEILING	FCO	FLOOR CLEAN OUT	MIN	MINIMUM	RO	REVERSE OSMOSIS WATER
CLR	CLEAR	FDC	FIRE DEPARTMENT CONNECTION	MISC	MISCELLANEOUS	RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
CPVC	CHLORINATED POLYVINYL CHLORIDE	FHC	FIRE HOSE CABINET	MOA	MINIMUM OUTDOOR AIR	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
CRAC	COMPUTER ROOM AIR CONDITIONER	FHV	FIRE HOSE VALVE	MTD	MOUNTED	SA	SUPPLY AIR
CV	CONSTANT VOLUME	FL	FLOOR	NC	NORMALLY CLOSED	SAN	SANITARY
		FT	FEET	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	SCHD	SCHEDULE
		FW	FILTERED WATER			SCW	SOFT COLD WATER
						SHW	SOFT HOT WATER
						SIM	SIMILAR
						SM	SPRINKLER MAIN
						SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
						SPECS	SPECIFICATIONS
						SS	STAINLESS STEEL
						STD	STANDARD
						TEMP	TEMPERATURE
						TYP	TYPICAL
						UG	UNDERGROUND
						UL	UNDERWRITERS LABORATORY
						UNO	UNLESS NOTED OTHERWISE
						UPS	UNINTERRUPTIBLE POWER SUPPLY
						VA	VOLT-AMPS
						VERT	VERTICAL
						VFC	VARIABLE FREQUENCY CONTROL
						VTR	VENT THROUGH ROOF
						W	WATT
						WG	WATER GAUGE
						WP	WEATHERPROOF
						XFMR	TRANSFORMER

PLUMBING GENERAL NOTES:

A. DO NOT RUN PLUMBING PIPING OR EQUIPMENT ABOVE ELECTRICAL OR TELECOMMUNICATION PANELS AND ASSOCIATED EQUIPMENT OR IN CODE-REQUIRED CLEARANCE SPACES. COORDINATE ALL ROUTING WORK WITH ALL OTHER TRADES.

B. DO NOT RUN PLUMBING PIPING OR EQUIPMENT ABOVE OR THROUGH INFORMATION TECHNOLOGY AND DATA CLOSETS, IDF, AND MDF ROOMS. COORDINATE ALL ROUTING WITH ALL OTHER TRADES.

C. DRAWINGS, PLANS, SCHEMATICS, AND DIAGRAMS INDICATE THE GENERAL LOCATIONS AND THE ARRANGEMENT OF SYSTEMS. WHEREVER PRACTICAL, INSTALL SYSTEMS AS INDICATED. PROVIDE OFFSETS AND ELEVATION CHANGES TO PLUMBING, PIPING, AND DUCTWORK AS REQUIRED TO COMPLETE THE LAYOUT AND COORDINATION PROCESS AS WELL AS MEET ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

D. SEE WASTE AND VENT RISER DIAGRAMS ON SHEET M1-1 FOR ADDITIONAL PIPE SIZES.

E. CLEAN EXISTING UNDERGROUND SANITARY PIPING TO MANHOLE CONNECTION WITH CABLE AND BLADE PRIOR TO INSTALLATION AND CONNECTION OF NEW PIPING.

F. SEE SPECIFICATIONS OR PLUMBING FIXTURE SCHEDULE FOR ALL PLUMBING CONNECTION SIZES TO ALL PLUMBING FIXTURES.

G. LOCATE PLUMBING VENTS THROUGH THE ROOF AT A MINIMUM OF 10'-0" AWAY FROM ALL OUTDOOR INTAKES ON HVAC EQUIPMENT OR OPERABLE WINDOWS.

H. PROVIDE WALL AND FLOOR-MOUNTED SEWER CLEANOUTS AS REQUIRED BY CODE AND AS INDICATED. COORDINATE LOCATION IN FIELD.

I. DO NOT ROUTE PLUMBING BRANCHES OR MAINS WITHIN SPACE REQUIRED TO SERVICE ALL HVAC EQUIPMENT ABOVE CEILINGS.

J. PIPING AND FIXTURES SHOWN WITH THIN LINES INDICATE EXISTING TO REMAIN. PIPING AND FIXTURES SHOWN WITH BOLD LINES INDICATES NEW.

K. COORDINATE SHUT DOWN OF EXISTING WATER SERVICE WITH OWNER'S REPRESENTATIVE.

L. FURNISH AND INSTALL SHUT-OFF VALVES FOR WATER SUPPLY AT ALL EQUIPMENT ITEMS.

M. COORDINATE FINISH FLOOR ELEVATIONS TO SET FLOOR DRAINS AND FLOOR SINKS.

N. SAW CUT AND REMOVE FLOOR AS REQUIRED FOR INSTALLATION OF NEW PIPING.

O. PIPING IN EXTERIOR BUILDING WALLS SHALL BE LOCATED ON THE WARM SIDE OF BUILDING INSULATION AND VAPOR BARRIER. BUILDING INSULATION SHALL RUN CONTINUOUS BETWEEN PIPING AND EXTERIOR OF BUILDING.

P. PVC PIPING SHALL NOT BE INSTALLED IN RETURN AIR PLENUMS.

Q. SEE SANITARY AND STORM NO-HUB RESTRAINT DETAIL FOR RESTRAINING REQUIREMENTS FOR PIPING 5" AND LARGER.

R. SEE NON-SEISMIC SWAY BRACE DETAIL FOR SWAY BRACING REQUIREMENTS FOR PIPING 4" AND LARGER.

S. SEE WATER HAMMER ARRESTOR DETAIL FOR WATER HAMMER ARRESTOR REQUIREMENTS ON DOMESTIC WATER PIPING.

T. PERFORM FUNCTIONAL PERFORMANCE TESTING FOR SERVICE WATER-HEATING SYSTEM AND SUBMIT DOCUMENTATION REQUIRED BY 2018 IECC SECTION C408.2 TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE RECEIPT OF CERTIFICATE OF OCCUPANCY.

DETAIL NOTE:

A. PROJECT DETAILS ARE PROVIDED ON DESIGNATED DETAIL SHEETS. DETAILS APPLY TO THE ENTIRE PROJECT IN ALL LOCATIONS WHERE DETAILED CONDITION EXISTS AND ARE ONLY REFERENCED TO PROVIDE CLARITY IF NECESSARY.

HVAC GENERAL NOTES:

A. DO NOT RUN DUCTWORK, PIPING, OR EQUIPMENT ABOVE ELECTRICAL OR TELECOMMUNICATION PANELS AND ASSOCIATED EQUIPMENT OR IN CODE-REQUIRED CLEARANCE SPACES. COORDINATE ALL ROUTING WORK WITH ALL OTHER TRADES.

B. DO NOT RUN DUCTWORK, PIPING, OR EQUIPMENT ABOVE OR THROUGH INFORMATION TECHNOLOGY AND DATA CLOSETS, IDF, AND MDF ROOMS. COORDINATE ALL ROUTING WITH OTHER TRADES.

C. DRAWINGS, PLANS, SCHEMATICS, AND DIAGRAMS INDICATE THE GENERAL LOCATIONS AND THE ARRANGEMENT OF SYSTEMS. WHEREVER PRACTICAL, INSTALL SYSTEMS AS INDICATED. PROVIDE OFFSETS AND ELEVATION CHANGES TO DUCTWORK, PIPING, AND PLUMBING AS REQUIRED TO COMPLETE THE LAYOUT AND COORDINATION PROCESS AS WELL AS MEET ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

D. SEE ARCHITECTURAL-REFLECTED CEILING PLANS FOR DIFFUSER, REGISTER, GRILLE, AND CEILING-MOUNTED DEVICE LOCATIONS.

E. CONTRACTOR SHALL COORDINATE LOCATION OF DUCTWORK IN CEILING SPACE WITH ALL TRADES PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK.

F. FOR GENERAL DUCTWORK CONSTRUCTION, SEE DUCT FITTING DETAILS.

G. DUCTWORK AND EQUIPMENT SHOWN WITH THIN LINES INDICATES EXISTING TO REMAIN. DUCTWORK AND EQUIPMENT SHOWN WITH BOLD LINES INDICATES NEW.

H. PROVIDE VOLUME DAMPER IN ALL BRANCH TAKEOFFS CONNECTING TO DIFFUSERS, REGISTERS, OR GRILLES AND IN LOCATIONS INDICATED.

I. PROVIDE REMOTE VOLUME DAMPER BALANCING POSITION CONTROL FOR ALL VOLUME DAMPERS MOUNTED ABOVE NON-ACCESSIBLE CEILINGS.

J. PROVIDE CLEARANCES TO ALL EQUIPMENT AS REQUIRED BY MANUFACTURERS' INSTALLATION AND OPERATION REQUIREMENTS AND/OR BY CODE.

K. CAP ENDS OF ALL INSTALLED DUCTWORK DURING CONSTRUCTION TO MINIMIZE DIRT, DEBRIS, AND FOREIGN OBJECTS FROM ENTERING THE DUCT SYSTEM.

L. COORDINATE SCHEDULE OF SHUTDOWN FOR EXISTING HVAC SYSTEMS, FOR INSTALLATION OF NEW HVAC SYSTEMS, WITH THE OWNER'S REPRESENTATIVE PRIOR TO SHUT DOWN.

M. ALL INSULATION SHALL MEET THE ENERGY CODE'S INSTALLED R VALUE REQUIREMENTS.

N. PERFORM FUNCTIONAL PERFORMANCE TESTING FOR HVAC SYSTEM AND SUBMIT DOCUMENTATION REQUIRED BY 2018 IECC SECTION C408.2 TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE RECEIPT OF CERTIFICATE OF OCCUPANCY.

PIPING GENERAL NOTES:

A. ALL HWS AND HWR BRANCH RUNOUTS AND PIPING SPECIALTIES TO TERMINAL UNITS AND FAN COIL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.

B. ALL PIPING INSULATION SHALL MEET THE ENERGY CODES INSTALLED R VALUE REQUIREMENTS.

C. INDICATED SIZES FOR PIPE AND PIPING SPECIALTY CONNECTIONS FOR EQUIPMENT AND COILS ARE INTENDED TO ROUTE TO THE EQUIPMENT CONNECTION POINT. WHEN CONTROL VALVE SIZES ARE SMALLER THAN INDICATED PIPE OR EQUIPMENT CONNECTION SIZE PROVIDE ECCENTRIC REDUCERS ON INLET AND OUTLET OF CONTROL VALVE. FINISHED FLOOR.

D. INSTALL PIPING TO TERMINAL UNIT REHEAT COILS AND/OR HEAT PUMPS TO PROVIDE EASY ACCESS AND REMOVAL OF REHEAT COIL OR HEAT PUMP. DO NOT ROUTE PIPING UNDER TERMINAL UNIT OR HEAT PUMP.

E. PIPING AND EQUIPMENT SHOWN WITH THIN LINES INDICATES EXISTING TO REMAIN. PIPING AND EQUIPMENT SHOWN WITH BOLD LINES INDICATES NEW.

F. SEE SCHEDULES FOR SIZES OF BRANCH RUNOUTS TO EQUIPMENT.

G. DIELECTRIC NIPPLES OR FLANGE INSULATION KITS SHALL BE UTILIZED FOR ALL DISSIMILAR PIPE CONNECTIONS. DIELECTRIC UNIONS WILL NOT BE ACCEPTED.

DEMOLITION NOTES:

A. THE OWNER SHALL HAVE THE FIRST RIGHT OF SALVAGE FOR ALL MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS BEING REMOVED. IF OWNER DECLINES, THE CONTRACTOR SHALL REMOVE FROM THE PREMISES DISPOSE OF PROPERLY. VERIFY OWNER'S INTENT PRIOR TO REMOVAL OR DEMOLITION.

B. INFORMATION PERTAINING TO THE EXISTING BUILDING HAS BEEN OBTAINED THROUGH THE BUILDINGS ORIGINAL DRAWINGS WHERE AVAILABLE. REPORT DISCREPANCIES TO THE ARCHITECT/ENGINEER PRIOR TO ANY DEMOLITION. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

C. COORDINATE SHUT DOWN OF ALL UTILITIES FOR DEMOLITION WORK WITH THE OWNER.

D. DISCONNECT AND REMOVE MECHANICAL SYSTEMS, EQUIPMENT, AND COMPONENTS AS INDICATED TO BE REMOVED.
PIPING TO BE REMOVED: REMOVE PORTION OF PIPING INDICATED TO BE REMOVED AND CAP REMAINING PIPING WITH THE SAME OR COMPATIBLE PIPING MATERIAL.
PIPING TO BE ABANDONED IN PLACE: DRAIN PIPING AND CAP WITH THE SAME OR COMPATIBLE PIPING MATERIAL.
DUCTS TO BE REMOVED: REMOVE PORTIONS OF DUCT AND CAP REMAINING DUCTS WITH THE SAME OR COMPATIBLE DUCTWORK MATERIAL.
DUCTS TO BE ABANDONED IN PLACE: CAP DUCTS WITH THE SAME OR COMPATIBLE DUCTWORK MATERIAL.
EQUIPMENT TO BE REMOVED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT.
EQUIPMENT TO BE REMOVED AND REINSTALLED: DISCONNECT AND CAP SERVICES AND REMOVE, CLEAN, AND STORE EQUIPMENT. WHEN APPROPRIATE, REINSTALL, RECONNECT, AND MAKE EQUIPMENT FULLY OPERATIONAL.
EQUIPMENT TO BE REMOVED AND SALVAGED: DISCONNECT AND CAP SERVICES AND REMOVE EQUIPMENT AND DELIVER TO OWNER.

E. IF PIPE OR EQUIPMENT INSULATION TO REMAIN IS DAMAGED IN APPEARANCE OR IS UNSERVICEABLE, REMOVE DAMAGED OR UNSERVICEABLE PORTIONS AND REPLACE WITH NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY.

F. CONTRACTOR IS REQUIRED TO VISIT SITE AND FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING PROJECT.

G. COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY UTILITIES AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED.

H. DUCTWORK, PIPING, PLUMBING, AND EQUIPMENT SHOWN BOLD SHALL BE REMOVED TO THE EXTENTS INDICATED.

FIRE PROTECTION GENERAL NOTES:

A. COORDINATE LOCATION OF FIRE SPRINKLER PIPING AND HEADS WITH ALL TRADES PRIOR TO FINALIZATION OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.

B. SEE ARCHITECTURAL-REFLECTED CEILING PLANS FOR LOCATIONS OF ALL CEILING-MOUNTED DEVICES.

C. DO NOT RUN FIRE SPRINKLER PIPING ABOVE ELECTRICAL OR TELECOMMUNICATION PANELS AND ASSOCIATED EQUIPMENT OR IN CODE-REQUIRED CLEARANCE SPACES. COORDINATE WITH ELECTRICAL AND MECHANICAL CONTRACTOR.

D. COORDINATE SHUT DOWN OF EXISTING FIRE SERVICE WITH OWNER'S REPRESENTATIVE.

E. SEE SPECIFICATIONS FOR FIRE SPRINKLER HEAD TYPES AND COLORS.

F. ALL WORK SHALL COMPLY WITH NFPA, THE LOCAL AUTHORITIES HAVING JURISDICTION, AND OWNERS' INSURANCE CARRIER.

G. DIELECTRIC NIPPLES OR FLANGE INSULATION KITS SHALL BE UTILIZED FOR ALL DISSIMILAR PIPE CONNECTIONS. DIELECTRIC UNIONS WILL NOT BE ACCEPTED.

H. SPRINKLER CONTRACTOR SHALL PERFORM FIRE HYDRANT FLOW TESTING AT THE PROJECT SITE PRIOR TO HYDRAULIC DESIGN OF THE SYSTEM IN ORDER TO DETERMINE THE CURRENT AVAILABLE WATER PRESSURE AND FLOW AT THE SITE. HYDRAULIC CALCULATIONS AND SYSTEM DESIGN SHALL BE BASED ON THE ACTUAL FLOW TEST DATA OBTAINED BY THE SPRINKLER CONTRACTOR.

I. IN LAY-IN CEILINGS CENTER THE SPRINKLERS IN TWO DIRECTIONS ON THE APPLICABLE CEILING TILE AND PROVIDE FLEXIBLE DROPS AS REQUIRED. REFER TO THE FLEXIBLE SPRINKLER DROP DETAILS FOR ADDITIONAL INFORMATION. IN OTHER CEILING TYPES, SPRINKLERS SHOULD NOT BE CLOSER THAN 6" TO AIR INLETS, OUTLETS, AND/OR LIGHT FIXTURES.

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NOTE:

DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing 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. READ SPECIFICATIONS.

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Omaha, NE 68102

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

MECHANICAL SYMBOLS AND ABBREVIATIONS

M0-0

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

Autodesk Docs://Lewis Central High School Addition/20251680_MEP1_v25.rvt

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LEFT BINDING EDGE

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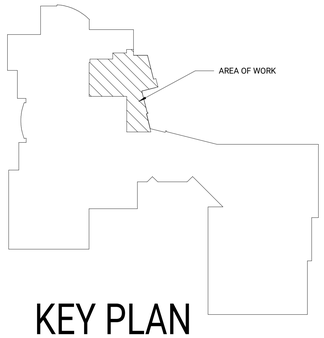

KEY PLAN

FLAG NOTES

1. DEMO EXISTING AIR TERMINAL COMPLETE. PREPARE DUCT CONNECTION TO BE REUSED IN NEW WORK.
2. DEMO EXISTING THERMOSTAT AND ASSOCIATED WIRING COMPLETE.
3. DEMO EXISTING EXHAUST FAN AND ASSOCIATED DUCT BACK TO MAIN AND CAP.
4. DEMO EXISTING DOWNSPOUT NOZZLE AND ASSOCIATED PIPING COMPLETE. PATCH WALL AS NECESSARY TO BLOCK AND SEAL PENETRATION.
5. DEMO EXISTING WALL HYDRANT. RELOCATE IRRIGATION CONTROLLER TO NEW LOCATION INDICATED ON M1-1 PLUMBING FLOOR PLAN.
6. RELOCATE EXISTING TERMINAL UNIT. SEE M2-1 FOR NEW WORK.

1 MD1-1 DEMOLITION PLAN - MECHANICAL

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

TRUE NORTH

PLAN NORTH

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LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

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Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

DEMOLITION PLAN - MECHANICAL

MD1-1

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

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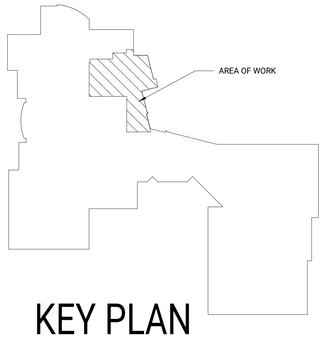
SPRINKLER NOTE:

INDICATED AREAS OF THE BUILDING SHALL HAVE FIRE PROTECTION SPRINKLER SYSTEM INSTALLED TO MEET THE REQUIREMENTS OF NFPA CODES, THE STATE FIRE MARSHAL'S OFFICE, AND THE OWNERS APPROVING INSURANCE AGENCY. SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL CEILING MOUNTED SPRINKLER HEADS TO AVOID ANY AND ALL INTERFERENCE WITH ALL OTHER TRADES. IF CONFLICTS DO OCCUR SUCH THAT LIGHTS, DUCTS, DIFFUSERS , GRILLES, OR CEILING SYSTEMS CANNOT BE INSTALLED IN THEIR REQUIRED LOCATIONS DUE TO SPRINKLER PIPING INTERFERENCE, THE PIPING SHALL BE RELOCATED OR REROUTED AT NO ADDITIONAL EXPENSE TO THE PROJECT. SPRINKLER CONTRACTOR SHALL MAINTAIN AN ADEQUATE SUPPLY OF EXTRA PIPING, FITTINGS, AND NECESSARY TOOLS TO MAKE FIELD MODIFICATIONS WITHOUT DELAY. AN APPROVED SPRINKLER SHOP DRAWING DOES NOT PRECLUDE REROUTING IF SO ORDERED BY THE ARCHITECT/ENGINEER



KEY PLAN

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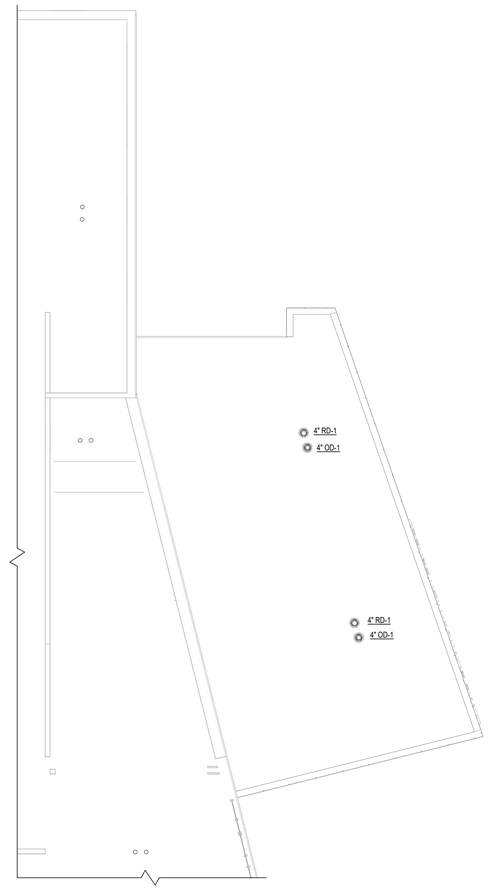
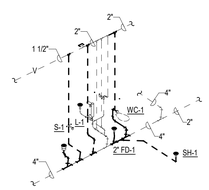
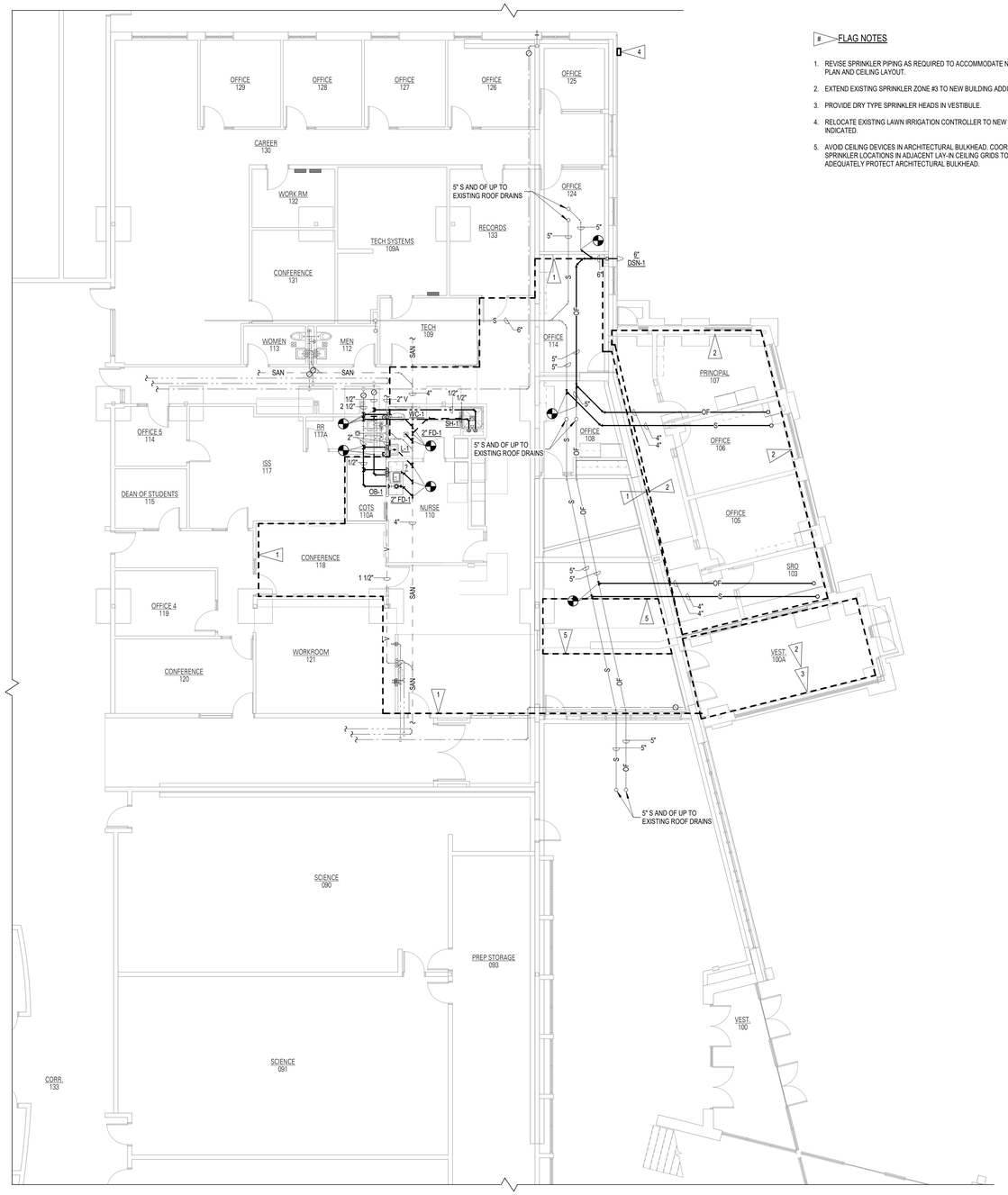


2 M1-1 ROOF PLAN - PLUMBING
1/8" = 1'-0" 0' 8' 16'



3 M1-1 WASTE AND VENT DIAGRAM
0' 8' 16'



1 M1-1 FLOOR PLAN - PLUMBING & FIRE PROTECTION
1/8" = 1'-0" 0' 8' 16'

FLAG NOTES

1. REVISE SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE NEW FLOOR PLAN AND CEILING LAYOUT.
2. EXTEND EXISTING SPRINKLER ZONE #3 TO NEW BUILDING ADDITION.
3. PROVIDE DRY TYPE SPRINKLER HEADS IN VESTIBULE.
4. RELOCATE EXISTING LAWN IRRIGATION CONTROLLER TO NEW LOCATION INDICATED.
5. AVOID CEILING DEVICES IN ARCHITECTURAL BULKHEAD. COORDINATE SPRINKLER LOCATIONS IN ADJACENT LAY-IN CEILING GRIDS TO ADEQUATELY PROTECT ARCHITECTURAL BULKHEAD.

TRUE NORTH PLAN NORTH

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FLOOR PLAN - PLUMBING & FIRE PROTECTION

M1-1

CONSTRUCTION DOCUMENTS
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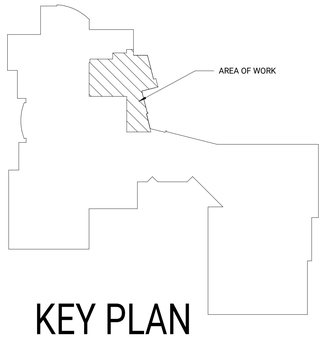

KEY PLAN

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CEILING SUPPLY AIR DIFFUSER SIZING SCHEDULE

MARK	NECK SIZE	CFM RANGE
D-1	6" Ø	0 - 110
	8" Ø	111-240
	10" Ø	241-420
	12" Ø	421-550
	14" Ø	551-680
	15" Ø	681-785

NOTES:
1. USE 24x24 PANELS FOR ALL LAY-IN CEILINGS.
2. ALL CEILING SUPPLY DIFFUSERS SHALL BE TYPE D-1 EXCEPT AS INDICATED ON THE PLANS.
3. SUPPLY AIR BRANCH DUCT TO DIFFUSER SHALL BE DIFFUSER NECK SIZE UNLESS OTHERWISE INDICATED.

CEILING RETURN/EXHAUST GRILLE SIZING SCHEDULE

MARK	NECK SIZE (INCHES)	CFM RANGE
G-1	8x8	125 - 200
	10x10	201-360
	12x12	361-525
	14x14	526-705
	16x16	706-975
	18x18	976-1150
	22x22	1151-1600
G-2	6x6	0-95
	18x6	96-380
	22x10	381-775

NOTES:
1. ALL CEILING EXHAUST OR RETURN GRILLES SHALL BE G-1 OR G-2 EXCEPT AS INDICATED ON THE PLANS.
2. BRANCH DUCT TO GRILLE SHALL BE GRILLE NECK SIZE OR EQUIVALENT ROUND DUCT UNLESS OTHERWISE INDICATED.
3. G-1 FACE SIZE SHALL BE 24" X 24".
4. USE 22" X 22" NECK SIZE ON G-1 IN PLENUM RETURN SYSTEMS.
5. G-2 FACE SIZE SHALL BE 24" X 12".
6. USE 22" X 10" NECK SIZE ON G-2 IN PLENUM RETURN SYSTEMS.

1 FLOOR PLAN - HVAC
M2-1
1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

FLAG NOTES

1. CONNECT NEW AIR TERMINAL TO EXISTING DUCTWORK AND ALIGN TO NEW CEILING GRID. BALANCE NEW AIR TERMINAL TO AIRFLOW INDICATED.
2. EXISTING TERMINAL UNIT TO REMAIN. REBALANCE TO AIRFLOW INDICATED.
3. ROUTE DUCT BELOW STRUCTURAL BEAM.

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FLOOR PLAN - HVAC

M2-1

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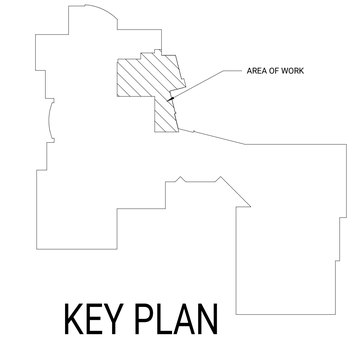

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1 M3-1 FLOOR PLAN - PIPING

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

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FLOOR PLAN - PIPING

M3-1

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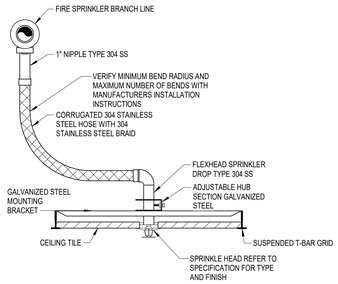
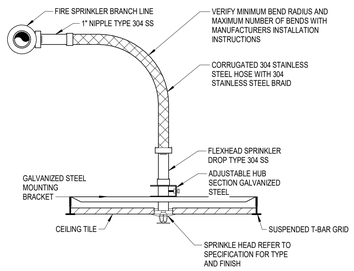


1 M4-0 — FLEXIBLE SPRINKLER HEAD 90 CONNECTION

NO SCALE

Std. 05/09/2019

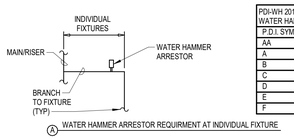


2 M4-0 — FLEXIBLE SPRINKLER HEAD STRAIGHT CONNECTION

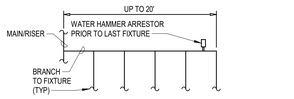
NO SCALE

Std. 05/09/2019

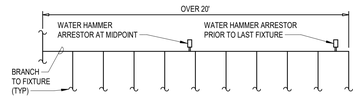
NOTE:
PROVIDE, SIZE AND LOCATE WATER HAMMER ARRESTERS IN WATER PIPING ACCORDING TO PDI-WH 201. INSTALL WHERE QUICK CLOSING VALVES ARE PRESENT INCLUDING FLUSH VALVES, SENSOR FAUCETS, STAND ALONE ICE MAKERS, LAUNDRY WASHING EQUIPMENT AND ANY OTHER SENSOR OR ELECTRONIC CONTROLLED VALVES. REFER TO PDI-WH 201 SIZING AND PLACEMENT DATA FOR ADDITIONAL INFORMATION AND CONSIDERATIONS.



A WATER HAMMER ARRESTOR REQUIRMENT AT INDIVIDUAL FIXTURE



B WATER HAMMER ARRESTOR REQUIREMENT FOR MULTIPLE FIXTURES



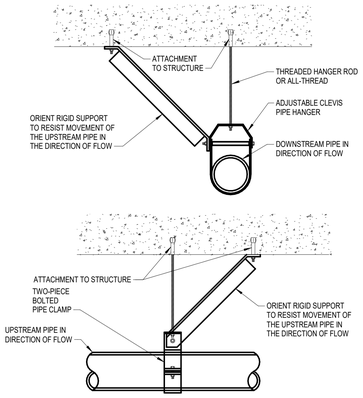
C WATER HAMMER ARRESTOR REQUIRMENT ON BRANCH PIPING LONGER THAN 20'

PDI-WH 201 TABLE V WATER HAMMER ARRESTOR SIZING	
P.D.I. SYMBOL	F.U. RATING
AA	1-3
A	1-11
B	12-32
C	33-60
D	61-113
E	114-154
F	155-330

3 M4-0 — WATER HAMMER ARRESTOR

NO SCALE

Std. 01/17/2022

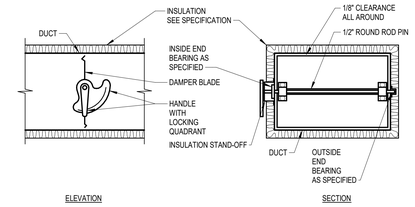


PROVIDE SWAY BRACING FOLLOWING ONE OF THE ABOVE DETAILS ON STORM AND SANITARY PIPING 4" AND LARGER WHERE THE DIRECTION OF FLOW IS CHANGED GREATER THAN 45 DEGREE.

4 M4-0 — NON-SEISMIC HORIZONTAL PIPE SWAY BRACE DETAIL

NO SCALE

Std. 06/25/2021



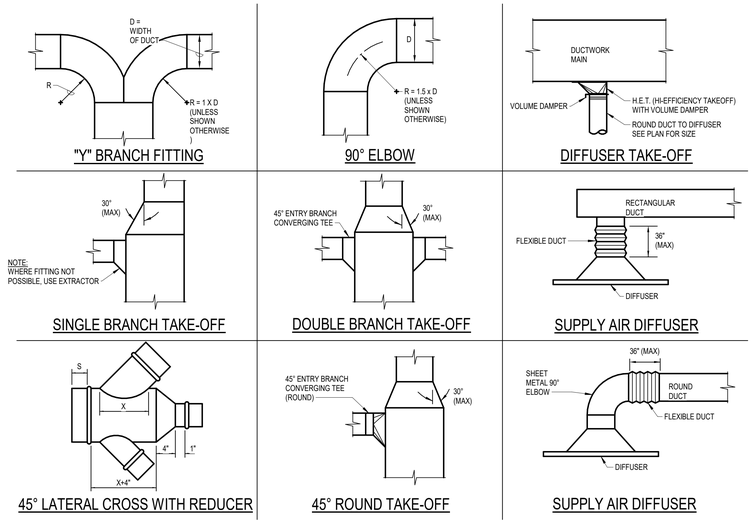
NOTES:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS AND ROUND DAMPERS.

5 M4-0 — VOLUME DAMPER

NO SCALE

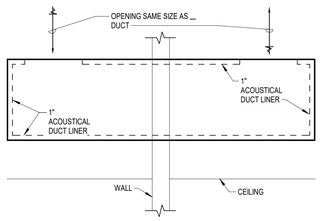
Std. 05/09/2019



6 M4-0 — DUCT FITTING DETAILS

NO SCALE

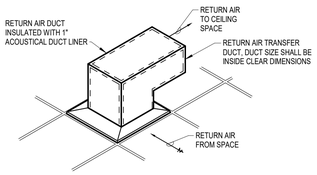
Std. 05/09/2019



7 M4-0 — SOUND TRAP

NO SCALE

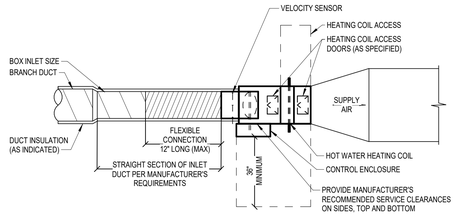
Std. 05/09/2019



8 M4-0 — RETURN AIR SOUND BOOT

NO SCALE

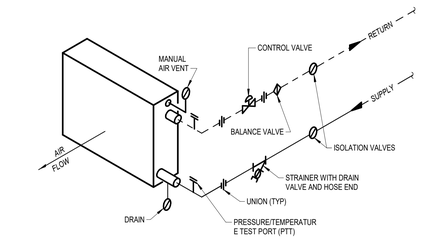
Std. 05/09/2019



9 M4-0 — SINGLE DUCT AIR TERMINAL UNIT

NO SCALE

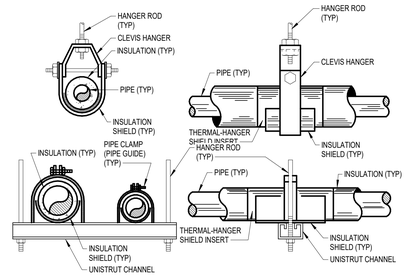
Std. 03/28/2022



10 M4-0 — TERMINAL UNIT HOT WATER COIL

NO SCALE

Std. 03/15/2022



NOTE:

1. SEE SPECIFICATIONS FOR INSULATION, PROTECTIVE SHIELD, AND PIPE SUPPORT REQUIREMENTS.
2. INSTALL PROTECTIVE SHIELD AT EACH PIPE SUPPORT.
3. INSULATION SHALL BE CONTINUOUS THROUGH HANGERS AND SUPPORTS.

11 M4-0 — INSULATION PIPE SUPPORT

NO SCALE

Std. 05/09/2019

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MECHANICAL DETAILS

M4-0

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PLUMBING EQUIPMENT AND CONNECTION SCHEDULE

SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS

MARK	DESCRIPTION	BASIS OF DESIGN	CONNECTION DETAILS
S-1 SINK	FIXTURE: SINGLE BOWL, SELF-RIMMING, COUNTER MOUNTED, 18 GAUGE TYPE 302 (18-8) STAINLESS STEEL WITH FAUCET LEDGE, SOUND DEADENING UNDERCOATING, PUNCHED TO MATCH FAUCET. DRAIN: CRUMB CUP STRAINER. SIZE: 22"x19"x5 1/2" DEEP. FAUCET: POLISHED CHROME, SINGLE-CONTROL LEVER WITH 8 1/2" SWING SPOUT REACH FAUCET WITH AERATOR AND 5" SPOUT HEIGHT. 1.8 GALMIN FLOW RATE AND 60 PSI PRESSURE.	FIXTURE: ELKAY "LUSTERTONE" LRAD2219 FAUCET: KOHLER "CORALAIS" K-15175-P	WASTE: 1 1/2" | VENT: 1 1/2" | CW: 1/2" | HW: 1/2" REMARKS: .
L-1 LAVATORY	FIXTURE: WHITE, VITREOUS CHINA, WALL HUNG, WITH OVERFLOW AND CONCEALED ARM CARRIER. SIZE: 21x18. FAUCET: CHROME PLATED BRASS, SINGLE 4" LEVER HANDLE, 4 3/8" SPOUT WITH AERATOR, 0.5 GPM FLOW AND GRID DRAIN. CONCEALED ARM WALL SUPPORTED CARRIER WITH HARDWARE TO MATCH FIXTURE. CONCEALED ARM CARRIER WITH HARDWARE TO MATCH FIXTURE AND STEEL UPRIGHTS WITH FEET.	FIXTURE: KOHLER "KINGSTON" K-2007 FAUCET: KOHLER "JULY" K-97283-4	WASTE: 1 1/4" | VENT: 1 1/4" | CW: 1/2" | HW: 1/2" REMARKS: .
WC-1 WATER CLOSET	FIXTURE: ADA COMPLIANT, FLOOR SET, FLOOR OUTLET, SIPHON JET, VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, 2 1/8" PASSAGEWAY, WHITE. VALVE: OSCILLATING LEVER HANDLE, 1.6 GALLONS PER FLUSH. SEAT: SOLID PLASTIC, ELONGATED, WHITE, CHECK HINGE, OPEN FRONT WITHOUT COVER.	FIXTURE: KOHLER "HIGHCLIFF" K-96057-8 VALVE: SLOAN "ROYAL" 111-1.6 SEAT: OLSONITE 10SSCT	WASTE: 4" | VENT: 2" | CW: 1" | HW: - REMARKS: .
SH-1 INDIVIDUAL SHOWER	OASIS MODEL SHFW-3837, WHITE, FIBERGLASS COMPOSITE SHOWER STALL, 0.5" THRESHOLD, ADA COMPLIANT, WHERE REQUIRED AND CAST BRASS 2" DRAIN. GRAB BARS AND SEAT TO BE SPECIFIED BY ARCHITECT. SIZE: 38"x37"x76". FAUCET: PRESSURE BALANCING, CHROME PLATED MIXING VALVE WITH LEVER HANDLE, 1.5 GPM, CHROME PLATED HAND SHOWER WITH PLATED 24" SHOWER SLIDE BAR, ADJUSTING KNOB, SWIVEL HANGE, AND 60" METAL SHOWER HOSE.	SURROUND: OASIS SHFW-3837 VALVE: "TEMP-GARD III" 27301-SS-MT	WASTE: 2" | VENT: 1 1/2" | CW: 1/2" | HW: 1/2" REMARKS: .
FD-1 FLOOR DRAIN	COMPLY WITH ASME A112.6.3. CAST IRON BODY AND TRAP, AND SQUARE, ADJUSTABLE, NICKEL BRONZE STRAINER.	JR SMITH 2010	WASTE: - | VENT: - | CW: - | HW: - REMARKS: .
RD-1 ROOF DRAIN	COMPLY WITH ASME A112.6.4. ROOF DRAIN WITH CAST IRON BODY, COMBINATION FLASHING RING AND GRAVEL STOP. SUMP RECIEVER, UNDERDECK CLAMP AND CAST IRON DOME.	JR SMITH 1010	WASTE: - | VENT: - | CW: - | HW: - REMARKS: .
OD-1 OVERFLOW DRAIN	COMPLY WITH ASME A112.6.4. OVERFLOW DRAIN WITH 2" EXTERNAL WATER DAM. CAST IRON BODY, COMBINATION FLASHING RING AND GRAVEL STOP. SUMP RECIEVER UNDERDECK CLAMP, AND CAST IRON DOME.	JR SMITH 1080	WASTE: - | VENT: - | CW: - | HW: - REMARKS: .
DSN-1 DOWN SPOUT NOZZLE	NICKEL BRONZE, WITH THREADED INLET AND WALL FLANGE COVER.	JR SMITH 1770	WASTE: - | VENT: - | CW: - | HW: - REMARKS: .
OB-1 OUTLET BOX	WITH HOSE CONNECTION AND THE FOLLOWING: BOX AND FACEPLATE: PLASTIC, SUPPLY FITTING: NPS 1/2" GATE, GLOBE, OR BALL VALVE AND NPS 1/2" COPPER, WATER TUBING. INSTALL OUTLET BOX BELOW COUNTER TO SERVE ICE MACHINE.	SIOUX CHIEF OX BOX	WASTE: - | VENT: - | CW: 1/2" | HW: - REMARKS: .

AIR TERMINAL UNIT SCHEDULE

MARK	SERVES	TYPE	MAX COOLING	MAX HEATING	MIN OCCUPIED [2]	MIN UNOCCUPIED [2]	MAXIMUM S. P. IN. W.G. [3]	NC @ MINS.P. [4]	BOX INLET DIAMETER (IN)	INLET BRANCH DUCT SIZE (IN)	OUTLET DUCT SIZE (IN)	MINIMUM HEATING COIL MBH [5]	MAXIMUM HEATING COIL FLOW (GPM)	HEATING COIL MAX P. D. (FT)	REHEAT BRANCH PIPE SIZE (IN)	OVERALL DIMENSIONS (LxWxH) (IN) [5]	MAXIMUM WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
TU-100A	VESTIBULE	SINGLE DUCT/VARIABLE VOLUME	500	490	105	105	0.34	25	7	8	12 X 10	16	1.00	10.0	0.50	34 X 18 X 10	75	PRICE	SDV 5000	1
TU-103	SRO	SINGLE DUCT/VARIABLE VOLUME	160	90	55	55	0.08	<20	4	5	12 X 8	3	0.25	10.0	0.50	34 X 18 X 8	50	PRICE	SDV 5000	1
TU-106	OFFICE	SINGLE DUCT/VARIABLE VOLUME	180	90	65	65	0.15	<20	5	6	12 X 8	3	0.25	10.0	0.50	34 X 18 X 8	50	PRICE	SDV 5000	1

REMARKS:

1. COORDINATE LOCATION WITH ARCHITECTURAL LAY-IN CEILING.
2. MINIMUM AIR FLOW FOR PRESSURE INDEPENDENT CONTROL.
3. TOTAL AIR PRESSURE DIFFERENCE ACROSS BOX AND COIL AT MAXIMUM CFM.
4. DISCHARGE UNIT NOISE AT 1.0" MAXIMUM PRESSURE DIFFERENCE. BASED ON ROOM ATTN OF 10 DB (LW RE: 10 E-12 WATTS).
5. HEATING CAPACITY BASED ON HEATING CFM, EWT = 180 F, LWT = 150 F, AND EAT = 55 F, LAT = 85 F.
6. DIMENSIONS INCLUDE CONTROL PANEL, REHEAT COIL, AND ACCESS DOOR.

FAN COIL UNIT SCHEDULE

MARK	SERVES	TYPE	ARRANGEMENT	CFM	EXT S.P. (IN. W.G.)	TOTAL CAPACITY (MBH)	MAX APD (IN. W. G.)	MAX WPD (FT)	FLUID DATA EWT (°F)	FLUID DATA LWT (°F)	FLUID DATA GPM	DIMENSIONS (LxWxH) (IN)	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
FCU-100A	VESTIBULE	2-PIPE	HORIZONTAL	800	0.5	57.4	0.3	3.5	180.0	150.0	2.4	70x35x12	55.0	DAIKIN	FCHR-203A	1, 2, 3, 4

REMARKS:

1. SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE ON SHEET E6-0 FOR ELECTRICAL DATA.
2. UNIT TO HAVE BOTTOM DISCHARGE AND BOTTOM RETURN.
3. ACCESS PANEL TO BE PROVIDED ON BOTTOM FACE OF UNIT.
4. PROVIDE WITH INTEGRAL DISCONNECT.

EXHAUST FAN SCHEDULE

MARK	SERVES	TYPE	AIRFLOW (CFM)	EXT S.P. (IN. W.C.)	FAN RPM	DRIVE	MAX SONES	CONTROL	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
EF-110B	RR-110B	CEILING	115	0.3	650	DIRECT	2.0	SWITCH	10	GREENHECK	SP-B110ES	1

REMARKS:

1. SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE ON SHEET E6-0 FOR ELECTRICAL DATA.

DIFFUSER REGISTER AND GRILLE SCHEDULE

MARK	DESCRIPTION	DEFLECTION	MAX S. P. (IN. W.C.)	MAX NC LEVEL	CONSTRUCTION MATERIAL	FINISH	FACE SIZE (IN)	MANUFACTURER	MODEL	ACCESSORIES	REMARKS
D-1	PLAQUE	4-WAY	0.1	25	STEEL	WHITE	24x24	PRICE	SPD	-	1
G-1	PERFORATED	-	0.1	20	STEEL	WHITE	24x24	PRICE	PDDR	-	1
G-2	PERFORATED	-	0.1	20	STEEL	WHITE	24x12	PRICE	PDDR	-	1

REMARKS:

1. CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION PRIOR TO FURNISHING MATERIAL.

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#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

3504 Harry Langdon Blvd,
Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

MECHANICAL SCHEDULES

M5-0

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

Autodesk Docs://Lewis Central High School Addition/20251680_MEP1_v25.rvt

6/18/2025 10:28:29 PM

LEFT BINDING EDGE

6/18/2025 10:18:50 PM

ELECTRICAL SYMBOLS

LIGHTING

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
X / X	RECESSED CEILING MOUNTED TROFFER LINES INDICATE ORIENTATION OF LUMINAIRE	X / X	PENDANT MOUNTED LUMINAIRE	X	CEILING MOUNTED EXIT SIGN ARROW(S) INDICATES DIRECTIONAL CHEVRON(S) SHADING INDICATES FACE(S)
X / X	RECESSED CEILING MOUNTED LUMINAIRE	X / X	SURFACE MOUNTED LUMINAIRE	X	WALL MOUNTED EXIT SIGN ARROW(S) INDICATES DIRECTIONAL CHEVRON(S) SHADING INDICATES FACE(S)
X / X	RECESSED WALL MOUNTED LUMINAIRE	X / X	SURFACE MOUNTED WALL LUMINAIRE	X	CEILING MOUNTED EXIT SIGN WITH EMERGENCY BATTERY LIGHT ARROW(S) INDICATES DIRECTIONAL CHEVRON(S) SHADING INDICATES FACE(S)
X / X	IN-GRADE/RECESSED FLOOR MOUNTED LUMINAIRE	X	LIGHTING TRACK	X	WALL MOUNTED EXIT SIGN WITH EMERGENCY BATTERY LIGHT ARROW(S) INDICATES DIRECTIONAL CHEVRON(S) SHADING INDICATES FACE(S)
		X	TRACK MOUNTED LUMINAIRE		
X / X	RECESSED MULTIPLE DOWNLIGHT (QUANTITY OF SHAPES INDICATES QUANTITY OF HEADS)	X	CEILING FAN	X	EMERGENCY BATTERY LIGHT
X	TAPE LIGHT/COVE LIGHT		ARROW INDICATES LUMINAIRE AIMING		SHADING INDICATES LUMINAIRE ON EMERGENCY/LIFE SAFETY CIRCUIT OR WITH BATTERY BACKUP
X	POLE MOUNTED LUMINAIRE	X	AIMABLE SPOT LIGHT		SHADING INDICATES LUMINAIRE ON CRITICAL CIRCUIT
X	POLE (X INDICATES MARK IN POLE SCHEDULE)	D D D	PRIMARY DAYLIGHT ZONE BOUNDARY	ET	UL 1008 BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH
$ $ #	LOW VOLTAGE SWITCH/CONTROL (# INDICATES LOW VOLTAGE SWITCH IN SCHEDULE)	SD SD SD	SECONDARY DAYLIGHT ZONE BOUNDARY	M	LIGHTING CONTACTOR
S	SINGLE POLE SWITCH		LIGHTING CONTROL ZONE BOUNDARY		TIME SWITCH
$3	3-WAY SWITCH	X	LIGHTING CONTROL TYPE (X INDICATES MARK IN LIGHTING CONTROL SCHEDULE)	P	PHOTOCELL CEILING MOUNTED
$4	4-WAY SWITCH		LIGHTING CIRCUIT/ZONE BOUNDARY	P	PHOTOCELL WALL MOUNTED
$D	DOOR SWITCH	XX-## (PART)	LIGHTING ZONE CIRCUIT DESIGNATION, "XX" INDICATES PANEL NAME, "##" INDICATES CIRCUIT NUMBER (PART) INDICATES PARTIAL CIRCUIT	F	MANUAL DIMMER (F INDICATES FAN SPEED CONTROLLER)
$MC	MOMENTARY CONTACT SWITCH			#	CEILING MOUNTED OCCUPANCY SENSOR (# INDICATES SENSOR TYPE IN SCHEDULE)
$T	TIMER SWITCH			D	LINE VOLTAGE WALL MOUNTED OCCUPANCY SENSOR/SWITCH (D INDICATES DIMMING)

FOR LUMINAIRES, X INDICATES MARK IN LUMINAIRE SCHEDULE

POWER

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
G,T,U	DUPLEX RECEPTACLE "G" SUBSCRIPT INDICATES GFCI,"T" SUBSCRIPT INDICATES TAMPER RESISTANT TYPE, "U" SUBSCRIPT INDICATES COMBINATION USB CHARGING STATION		HORIZONTAL MOUNTED DUPLEX RECEPTACLE		SIMPLEX RECEPTACLE
			DOUBLE DUPLEX RECEPTACLE		SPECIAL PURPOSE RECEPTACLE (NEMA CONFIGURE AS NOTED)
	DRYER RECEPTACLE NEMA 14-30 (125/250V 30A)		RECEPTACLE IN AV BOX		DUPLEX RECEPTACLE - SPLIT WIRED
	AUTOMATICALLY CONTROLLED DUPLEX RECEPTACLE		AUTOMATICALLY CONTROLLED DUPLEX RECEPTACLE - SPLIT WIRED		(1) DUPLEX, (1) DUPLEX AUTOMATICALLY CONTROLLED
	ISOLATED GROUND DUPLEX RECEPTACLE		HOSPITAL GRADE DUPLEX RECEPTACLE		ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE
	SHADING INDICATES RECEPTACLE ON GENERATOR POWER		WALL CLOCK HANGER RECEPTACLE		RANGE RECEPTACLE NEMA 14-50 (125/250V 50A)
W	WELDER RECEPTACLE NEMA 6-50 (250V 50A)		MULTI-OUTLET ASSEMBLY - LENGTH AS INDICATED		
#	POWER AND/OR DATA FLOOR OUTLET ("#" INDICATES DEVICE TYPE IN SCHEDULE)		CONDUIT STUB THRU FLOOR FOR HARDWIRE CONNECTION	TD #	COMBINATION POWER/DATA/AV TABLETOP OUTLET ("#" INDICATES DEVICE TYPE IN SCHEDULE)
	CEILING MOUNTED DUPLEX RECEPTACLE		CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE		CEILING MOUNTED SIMPLEX RECEPTACLE
	CEILING MOUNTED SPECIAL PURPOSE RECEPTACLE		RECEPTACLE IN CEILING AV BOX	$M	MOTOR RATED TOGGLE SWITCH
#	PUSH BUTTON STATION ("EP" SUBSCRIPT INDICATES EMERGENCY POWER OFF)		SWITCH AND FUSE		SWITCH AND FUSTAT
STE	SINGLE POLE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD AND PILOT LIGHT		ELEVATOR DISCONNECT		MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC STARTER/DISCONNECT	A/B/C/D	SAFETY SWITCH (FUSED UNLESS OTHERWISE NOTED) "A"=AMP RATING, "B"=POLES, "C"=FUSE SIZE, "D"=NEMA ENCLOSURE; FOR FUSE SIZE, "MR"=MFGR RECOMMENDATIONS AND "NF"=NON-FUSE		ENCLOSED CIRCUIT BREAKER
M	MOTOR			PB	PULL BOX
J #	JUNCTION BOX ("F" INDICATES FLOOR, "C" INDICATES CEILING)		WALL MOUNTED JUNCTION BOX		MECH EQUIPMENT WITH ELEC CONNECTION
IP	TECHNOLOGY INFRASTRUCTURE POWER CEILING MOUNTED JUNCTION BOX	IP	TECHNOLOGY INFRASTRUCTURE POWER WALL MOUNTED JUNCTION BOX		CORD AND PLUG
	BRANCH CIRCUIT		BRANCH CIRCUIT CONCEALED BELOW FLOOR (UNDERGROUND IF EXTERIOR)		HOMERUN TO PANEL (NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS)
	SPECIAL PURPOSE HOMERUN AS INDICATED		CONDUIT SEAL		CIRCUIT DOWN
	CIRCUIT UP		CONDUIT STUB-OUT		CIRCUIT BREAK
#	BRANCH CIRCUIT/FEEDER TAG. SEE BRANCH CIRCUIT/FEEDER SCHEDULE.	XX	EQUIPMENT TAG		GROUND BAR
	LIGHTING PANEL - SURFACE MOUNTED LIGHTING PANEL - FLUSH MOUNTED		DISTRIBUTION PANEL, SWITCHBOARD, OR MOTOR CONTROL CENTER	T / T	TRANSFORMER - PAD MOUNTED TRANSFORMER - SUSPENDED / WALL
	DIMMING/RELAY PANEL	ATS	AUTOMATIC TRANSFER SWITCH	EV / EV	ELECTRIC VEHICLE CHARGING STATION DASHED LINES INDICATE FUTURE

FIRE DETECTION AND ALARM

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
/	SMOKE DETECTOR	CM	CONTROL MODULE		SPEAKER AND STROBE COMBINATION - WALL
SB / SB	SMOKE DETECTOR WITH SOUNDER BASE	MM	MONITOR MODULE	F	SPEAKER - WALL
SA / SA	SMOKE ALARM	TS	FIRE SPRINKLER VALVE TAMPER SWITCH		SPEAKER AND STROBE COMBINATION - CEILING
BT BR	BEAM SMOKE DETECTOR SYSTEM - TRANSMITTER/REFLECTOR	FS	FIRE SPRINKLER FLOW SWITCH	C	SPEAKER - CEILING
	DUCT SMOKE DETECTOR - SAMPLING TUBE TYPE	PI	FIRE SPRINKLER POST INDICATOR VALVE	FACP	FIRE ALARM CONTROL PANEL
	DUCT SMOKE DETECTOR - IN-DUCT TYPE		HORN AND STROBE COMBINATION - WALL	FAA	FIRE ALARM ANNUNCIATOR PANEL
/	HEAT DETECTOR - FIXED TEMPERATURE + RATE-OF-RISE	F	HORN - WALL	FVCC	FIRE ALARM VOICE COMMAND CENTER
F / F	HEAT DETECTOR - FIXED TEMPERATURE ONLY		STROBE - WALL	F	FIRE FIGHTER'S TELEPHONE JACK
CO CO	CARBON MONOXIDE DETECTOR		HORN AND STROBE COMBINATION - CEILING	DH	MAGNETIC DOOR HOLD OPEN
CO / CO	COMBINATION CARBON MONOXIDE/SMOKE DETECTOR	F	HORN - CEILING	FSD M	COMBINATION FIRE/SMOKE DAMPER
AS AS	AIR SAMPLING SMOKE DETECTION SYSTEM		STROBE - CEILING	SD M	SMOKE DAMPER
SP AS	ASPIRATING SMOKE DETECTION SYSTEM - POINT ADDRESSABLE; SP = SAMPLE PORT	F	MANUAL PULL STATION	# =	INDICATES CANDELA RATING WHERE INDICATED

MISCELLANEOUS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S	COMBINATION CLOCK / SPEAKER UNIT	C	CHIME	T	THERMOSTAT
ARCM	AREA OF RESCUE COMMUNICATION SYSTEM MASTER UNIT	B	CHIME BUTTON		BELL
ARCR	AREA OF RESCUE COMMUNICATION SYSTEM REMOTE UNIT		ELECTRIC SOLENOID VALVE	*	ADDED TO ANY DETECTION SYMBOL INDICATES WALL MOUNT:

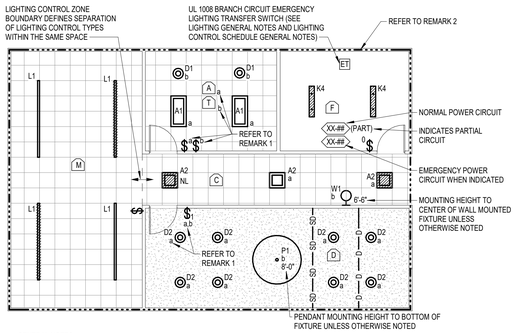
SUBSCRIPTS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
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	WP	SUBSCRIPT "WP" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEMA 3R OR EQUIVALENT
E	SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING	WG	SUBSCRIPT "WG" ADDED TO ANY SYMBOL INDICATES WIRE GUARD	P	SUBSCRIPT "P" ADDED TO ANY SYMBOL INDICATES PILOT LIGHT
PD	SUBSCRIPT "PD" ADDED TO ANY FLOOR OUTLET INDICATES PEDESTAL MOUNTED			NL	SUBSCRIPT "NL" ADDED TO ANY SYMBOL INDICATES AN UNSWITCHED LUMINAIRE OPERATING AS A NIGHT LIGHT
AC	SUBSCRIPT "AC" ADDED TO ANY SYMBOL INDICATES ABOVE COUNTER. LOCATE CENTER OF DEVICE 4" ABOVE COUNTER SURFACE OR WHERE PRESENT, 4" ABOVE BACKSPLASH. WHERE INDICATED ADJACENT TO LAVATORY WITHOUT COUNTER, LOCATE CENTER OF DEVICE 8" ABOVE RIM OF LAVATORY.				

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS AND ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

ABBREVIATIONS

A AMPERE	EC ELECTRICAL CONTRACTOR	KW KILOWATT	PNL PANEL
AFF ABOVE FINISHED FLOOR	EGB ELECTRICAL GROUND BAR	LTG LIGHTING	QTY QUANTITY
AHJ AUTHORITY HAVING JURISDICTION	ELEC ELECTRICAL	MAX MAXIMUM	RM ROOM
AIC AMPERES INTERRUPTING CURRENT	EMD ESTIMATED MAXIMUM DEMAND	MCB MAIN CIRCUIT BREAKER	SBB SECONDARY BONDING BUSBAR
ATS AUTOMATIC TRANSFER SWITCH	EMI ELECTROMAGNETIC INTERFERENCE	MCC MOTOR CONTROL CENTER	SCCR SHORT CIRCUIT CURRENT RATING
AUX AUXILIARY	EPO EMERGENCY POWER OFF	MECH MECHANICAL	SCHD SCHEDULE
AV AUDIOVISUAL	EXIST EXISTING	MGB MAIN GROUND BAR	SPD SURGE PROTECTIVE DEVICE
AWG AMERICAN WIRE GAUGE	FA FIRE ALARM	MIN MINIMUM	SPECS SPECIFICATIONS
BMCS BUILDING MANAGEMENT CONTROL SYSTEM	FAA FIRE ALARM ANNUNCIATOR PANEL	MISC MISCELLANEOUS	SS STAINLESS STEEL
C CONDUIT	FACP FIRE ALARM CONTROL PANEL	MLO MAIN LUGS ONLY	STD STANDARD
CATV CABLE TELEVISION	FC FOOT-CANDLES	N1 NEMA 1 ENCLOSURE	SW SWITCH
CB CIRCUIT BREAKER	FLA FULL LOAD AMPS	N3R NEMA 3R ENCLOSURE	SWB SWITCHBOARD
CCT CORRELATED COLOR TEMPERATURE	FT FEET	N4X NEMA 4X ENCLOSURE	SWG SWITCHGEAR
CCTV CLOSED CIRCUIT TELEVISION	FSAE FIRE SERVICE ACCESS ELEVATOR	NC NORMALLY CLOSED	TELECOM TELECOMMUNICATIONS
CKT CIRCUIT	GC GENERAL CONTRACTOR	NIC NOT IN CONTRACT	TYP TYPICAL
CL CENTER LINE	GEC GROUNDING ELECTRODE CONDUCTOR	NO NORMALLY OPEN	UG UNDERGROUND
CLG CEILING	GFCI GROUND FAULT CIRCUIT INTERRUPTER	NTS NOT TO SCALE	UNO UNLESS NOTED OTHERWISE
CRI COLOR RENDERING INDEX	GND GROUND	OC ON CENTER	UPS UNINTERRUPTIBLE POWER SUPPLY
DISC DISCONNECT	HP HORSEPOWER	OFCI OWNER FURNISHED CONTRACTOR INSTALLED	VA VOLT-AMPERES
DIST DISTRIBUTION	HZ HERTZ	PB PULLBOX	W WATT
DMX DIGITAL MULTI-PLEX	JB JUNCTION BOX	PBB PRIMARY BONDING BUSBAR	XFMR TRANSFORMER
DN DOWN	KCMIL THOUSAND CIRCULAR MILS	PDU POWER DISTRIBUTION UNIT	
DWG DRAWING	KV KILOVOLT	PIV POST INDICATOR VALVE	
	KVA KILOVOLT AMPERE		



GENERAL NOTES:
A. REFER TO LIGHTING CONTROL SCHEDULE AND SPECIFICATIONS FOR REQUIREMENTS. ROOMS SHOWN ARE AN EXAMPLE ONLY.

REMARKS:
1. WHERE INDICATED, LOWER CASE LETTERING INDICATES LUMINAIRE(S) CONTROLLED BY CONTROL DEVICE/ CONTROL TYPE WITH THE SAME LETTER WITHIN THE SAME ROOM.
2. LIGHTING CIRCUIT/ZONE BOUNDARY. DRAWINGS INDICATE LIGHTING BRANCH CIRCUITS AND ASSOCIATED CIRCUIT ZONES. BOUNDARIES FOR SPECIFIC NORMAL AND/OR EMERGENCY LIGHTING CIRCUITS ARE INDICATED BY "LIGHTING CIRCUIT BOUNDARY" LINETYPE. CONNECT FIXTURES WITHIN EACH CIRCUIT ZONE TO INDICATED BRANCH CIRCUITS. CONNECT LIGHTING CONTROLS WITHIN EACH ROOM TO CONTROL FIXTURES WITHIN THAT ROOM UNLESS OTHERWISE NOTED.

1 E0-0 LIGHTING CIRCUIT AND ANNOTATION LEGEND
NO SCALE Std. 01/02/2024

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GENERAL NOTES:

A. INSTALL GREEN INSULATED GROUND WIRE WITH EACH LIGHTING, RECEPTACLE, AND EQUIPMENT BRANCH CIRCUIT.

B. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT REQUIRING A NEUTRAL, UNLESS OTHERWISE NOTED.

C. CONCEAL CONDUITS INSTALLED IN NEW WALLS, EXISTING STUD WALLS AND IN AREAS WITH SUSPENDED CEILINGS.

D. WHERE BRANCH CIRCUIT OR SPECIAL SYSTEMS WIRING IS INSTALLED ON A WALL WHERE RACEWAYS CANNOT BE CONCEALED, USE SURFACE METAL RACEWAY, WIREMOLD V700 OR V2400 SERIES WITH FACTORY IVORY FINISH.

E. SURFACE METAL RACEWAY FOR TELECOMMUNICATIONS CABLES SHALL BE NO SMALLER THAN WIREMOLD V2400 SERIES. PROVIDE COMPATIBLE 2-GANG EXTRA DEEP DEVICE BOXES. FITTINGS SHALL COMPLY WITH TIA STANDARDS FOR BEND RADIUS.

F. IN ROOMS TO BE PAINTED, PAINT EXPOSED RACEWAYS (INCLUDING WIREMOLD) TO MATCH SURROUNDING SURFACES. COORDINATE WITH ARCHITECT.

G. INSTALL CONDUIT AND BOXES LOCATED NEAR METAL ROOF DECKS SO THAT THE NEAREST OUTER SURFACE OF THE CONDUIT OR BOX IS NOT LESS THAN 2 INCHES FROM THE NEAREST SURFACE OF THE ROOF DECKING. PROVIDE SPACERS AND SUPPORTS AS REQUIRED. RIGID METAL CONDUIT AND INTERMEDIATE METAL CONDUIT ARE NOT REQUIRED TO MAINTAIN THIS CLEARANCE.

H. REPAIR OR REPLACE BUILDING ELEMENTS THAT ARE DAMAGED AS PART OF ELECTRICAL WORK.

I. SPECIFICATIONS LIST ACCEPTABLE WIRING METHODS AND MATERIALS. OTHER WIRING METHODS AND MATERIALS NOT LISTED IN THE SPECIFICATIONS (SUCH AS MC CABLE, ETC.) ARE NOT ACCEPTABLE.

J. DO NOT ROUTE CONDUITS IN FLOOR SLABS UNLESS OTHERWISE NOTED.

K. WHERE CONDUIT STUB UP FROM SLAB IS EXPOSED, TRANSITION FROM NON-METALLIC TO METALLIC CONDUIT PRIOR TO EXITING FLOOR SLAB, PER SPECIFICATIONS.

L. SEAL ELECTRICAL PENETRATIONS IN MECHANICAL AND ELECTRICAL ROOMS ABOVE OCCUPIED SPACES TO REDUCE NOISE TRANSMISSION.

M. SEAL PENETRATIONS IN FIRE RATED CONSTRUCTION TO MAINTAIN RATINGS.

N. PROVIDE #10 MINIMUM CONDUCTOR SIZE FOR EMERGENCY/LIFE SAFETY BRANCH CIRCUITS.

O. LABELING FOR PANELBOARD DIRECTORIES, FIRE ALARM PANEL PROGRAMMING, ETC., SHALL USE ROOM NUMBERS ASSIGNED BY OWNER AND NOT ROOM NUMBERS LISTED ON DRAWINGS. LABELS ON PANELBOARD DIRECTORY SHALL INCLUDE A DESCRIPTION OF LOAD SUCH AS LIGHTS, RECEPTACLES, MECHANICAL UNIT LOCATIONS, ETC.

P. REFER TO ARCHITECTURAL ELEVATIONS AND SECTIONS (AS APPLICABLE) FOR EXACT DEVICE LOCATIONS.

DEMOLITION NOTES:

A. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL FIXTURES, DEVICES AND EQUIPMENT REMOVED. COORDINATE WITH OWNER PRIOR TO DEMOLITION.

B. WHERE EXISTING CIRCUITS ARE NOT REUSED, REMOVE CONDUCTORS AND ASSOCIATED ACCESSIBLE RACEWAYS BACK TO THE SOURCE. WHERE AN EXISTING DEVICE IS REMOVED FROM AN EXISTING CIRCUIT, PROVIDE NEW WIRING AS REQUIRED TO MAINTAIN CONTINUITY OF EXISTING CIRCUIT. UNLESS NOTED OTHERWISE, ABANDON CONCEALED CONDUITS IN WALLS WHICH ARE NOT REMOVED. WHERE AN EXISTING RACEWAY TO BE REMOVED IS STUBBED FROM A CONCRETE FLOOR OR WALL, CHISEL 2 INCHES BELOW SURFACE OF FLOOR, CUT CONDUIT, AND GROUT FLOOR TO MATCH ADJACENT SURFACE. PROVIDE BLANK PLATES FOR ABANDONED BOXES.

C. REPAIR OR REPLACE BUILDING ELEMENTS WHICH ARE DAMAGED AS PART OF DEMOLITION WORK.

D. DEMOLITION DRAWINGS INDICATE FIXTURES, DEVICES AND MAJOR PIECES OF EQUIPMENT WHICH ARE TO BE REMOVED OR RECONNECTED. REMOVE INDICATED ITEMS AND ASSOCIATED ITEMS NOT INDICATED BUT WHICH MUST BE REMOVED TO ACCOMMODATE REMODELING. THE ITEMS INDICATED SPECIFICALLY ON THE DRAWINGS TO BE REMOVED ARE ONLY TO INDICATE IN GENERAL TO THE CONTRACTOR THE AMOUNT OF DEMOLITION WORK REQUIRED. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXTENT OF DEMOLITION REQUIRED AND SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO THE BID DATE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. DISCONNECT MECHANICAL EQUIPMENT BEING REMOVED BY MECHANICAL CONTRACTOR. COORDINATE EQUIPMENT REMOVAL LOCATIONS WITH MECHANICAL DRAWINGS.

F. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS. DISCONNECT AND REMOVE ELECTRICAL DEVICES, EQUIPMENT, AND ASSOCIATED WIRING AS REQUIRED TO ACCOMMODATE NEW WORK.

G. POWER TO EXISTING AREAS NOT BEING REMODELED SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR SHORT TERM OUTAGES NECESSARY FOR RECONNECTION OF EXISTING CIRCUITS. COORDINATE AND SCHEDULE OUTAGES WITH THE OWNER.

H. COORDINATE DEMOLITION WITH THE WORK OF OTHER TRADES. PROVIDE TEMPORARY POWER AS REQUIRED TO ALLOW THE WORK OF OTHER TRADES TO PROCEED OR AS REQUIRED TO ALLOW THE OWNER TO OCCUPY THE SPACE.

I. REMOVE INDICATED FIRE ALARM DEVICES. REMOVE ASSOCIATED WIRING TO NEAREST REMAINING DEVICE(S). MODIFY SYSTEM CONFIGURATION, PROGRAMMING, ETC. AS REQUIRED FOR REMOVED DEVICES.

J. REMOVE DEMOLISHED ITEMS FROM PROJECT SITE. PROPERLY DISPOSE OF ITEMS INCLUDING LAMPS AND BALLASTS.

DETAIL NOTE:

A. PROJECT DETAILS ARE PROVIDED ON DESIGNATED DETAIL SHEETS. DETAILS APPLY TO THE ENTIRE PROJECT IN ALL LOCATIONS WHERE DETAILED CONDITION EXISTS AND ARE ONLY REFERENCED TO PROVIDE CLARITY IF NECESSARY.

LIGHTING GENERAL NOTES:

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE AND DEVICE LOCATIONS.

B. EMERGENCY LUMINAIRES REQUIRE ADDITIONAL CONTROL DEVICES WITH MULTIPLE CONNECTIONS SUCH AS UNSWITCHED NORMAL POWER, SWITCHED NORMAL POWER, AND UNSWITCHED EMERGENCY POWER. SEE LIGHTING CONTROL SCHEDULE FOR EMERGENCY LIGHTING RELAY REQUIREMENTS. VERIFY EXACT WIRING REQUIREMENTS WITH RELAYS PROVIDED. UPON NORMAL POWER FAILURE, CONTROL DEVICES SHALL CONNECT THE EMERGENCY LUMINAIRE(S) AT FULL INTENSITY TO THE UNSWITCHED EMERGENCY POWER CIRCUIT REGARDLESS OF THE POSITION OF THE ASSOCIATED SWITCH. EMERGENCY LIGHTING UL924 RELAYS ARE NOT INDICATED ON PLANS.

C. CONNECT EXIT SIGNS TO NEAREST UNSWITCHED EMERGENCY LIGHTING CIRCUIT SERVING CORRESPONDING AREA, UNLESS OTHERWISE INDICATED.

D. SITE LIGHTING LUMINAIRE LOCATIONS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH CIVIL ENGINEER/DRAWINGS.

E. LOCATE REMOTE DRIVERS/BALLASTS FOR LUMINAIRES ABOVE THE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE INDICATED.

FIRE ALARM GENERAL NOTES:

A. MODIFY EXISTING SIMPLEX FIRE ALARM SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. PROVIDE NEW FIRE ALARM DEVICES TO MATCH EXISTING.

B. FIRE ALARM DEVICES ARE INDICATED SCHEMATICALLY FOR DESIGN INTENT. DEVICE QUANTITIES INDICATED ARE MINIMUM. PROVIDE ADDITIONAL DEVICES AS REQUIRED. FIRE ALARM SUPPLIER SHALL SELECT CANDELA RATINGS OF STROBES TO PROVIDE REQUIRED COVERAGE.

C. COORDINATE LOCATIONS OF FIRE ALARM REMOTE PANELS WITH THE ARCHITECT/ENGINEER. PROVIDE A DEDICATED 20A, 120V CONNECTION FROM THE NEAREST AVAILABLE 120V EMERGENCY PANEL. PROVIDE LOCK-ON DEVICE ON CIRCUIT BREAKER. PROVIDE SMOKE DETECTOR AT EACH REMOTE PANEL LOCATION.

POWER GENERAL NOTES:

A. PROVIDE POWER CONNECTION TO CONTROL PANELS, TRANSFORMERS AND OTHER ITEMS FURNISHED BY MECHANICAL CONTRACTOR. COORDINATE LOCATIONS OF DEVICES REQUIRING POWER CONNECTIONS WITH MECHANICAL CONTRACTOR.

B. LABEL RECEPTACLE WALL PLATES WITH THE CORRESPONDING PANEL AND CIRCUIT NUMBER. LABEL SHALL BE ADDED TO BACKSIDE OF WALL PLATES WHERE DEVICE IS LOCATED IN PUBLIC SPACES.

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LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ELECTRICAL SYMBOLS AND ABBREVIATIONS

E0-0

CONSTRUCTION DOCUMENTS
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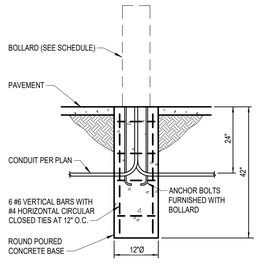

2 E0-1 BOLLARD BASE - FLUSH

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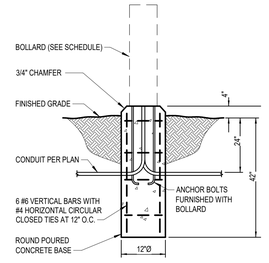


3 E0-1 BOLLARD BASE - CHAMFERED

NO SCALE Std. 11/20/2023

GENERAL NOTES

A. FIELD VERIFY LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

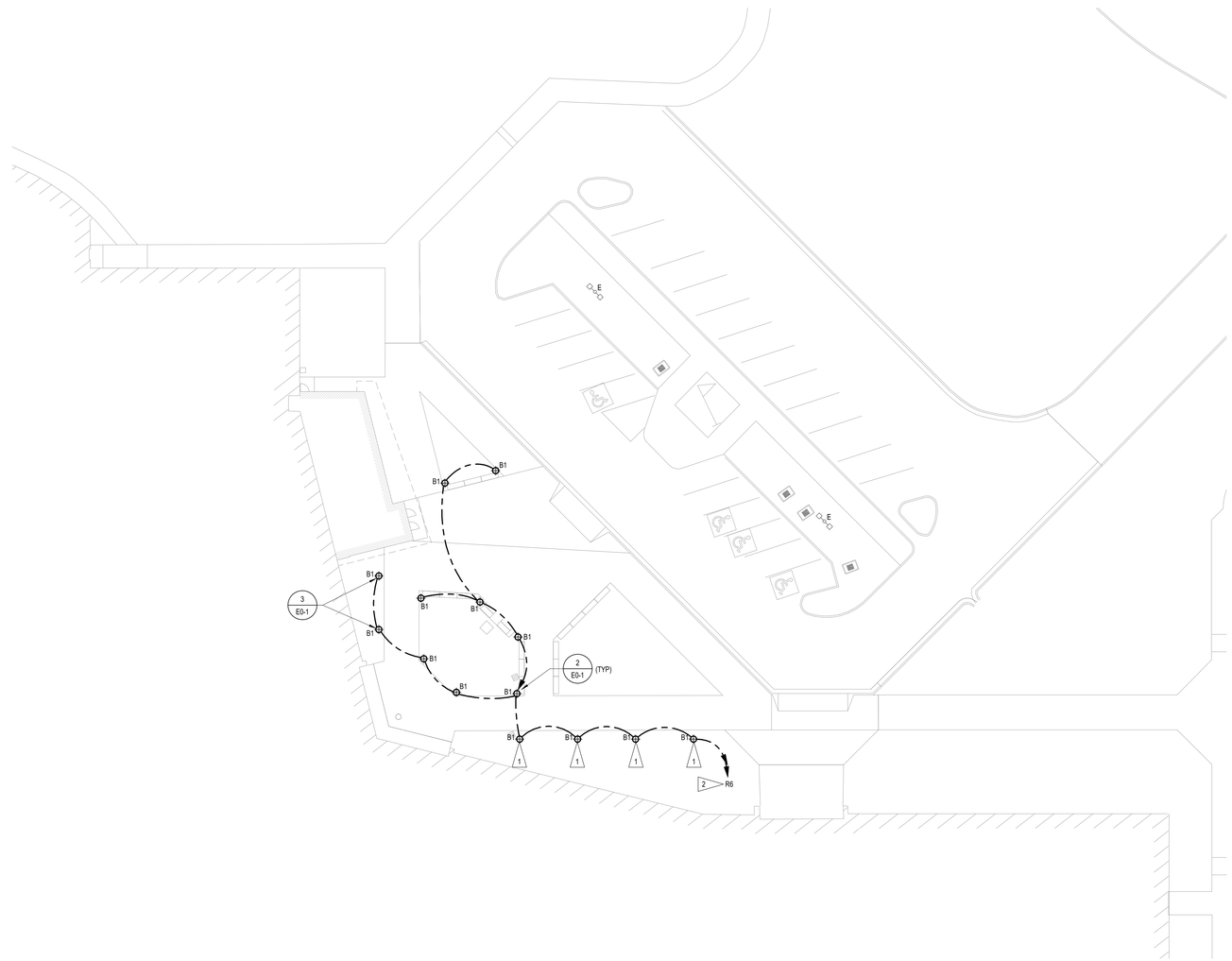
B. MINIMUM CONDUCTOR SIZE FOR EXTERIOR WORK SHALL BE #10 AWG UNLESS NOTED OTHERWISE.

C. MINIMUM CONDUIT SIZE FOR EXTERIOR WORK SHALL BE 1" UNLESS NOTED OTHERWISE.

D. SEE CIVIL REMOVAL PLAN FOR SITE DEMOLITION WORK. SALVAGE AND MODIFY EXISTING CIRCUITS AND CONTROLS AS REQUIRED FOR CONNECTION TO NEW SITE LUMINAIRES.

FLAG NOTES

1. ONE FOR ONE REPLACEMENT OF EXISTING BOLLARDS THIS LOCATION. PROVIDE NEW BOLLARD BASE. REFER TO DETAIL 3/E0-1 FOR BASE CONSTRUCTION.
2. CONNECT TO (2) EXISTING BOLLARD CIRCUITS. FIELD VERIFY EXACT CIRCUITS. PROVIDE 2#10, #10 GND, IN 1"C. TO NEW BOLLARD LOCATIONS.



1 E0-1 SITE PLAN - ELECTRICAL

1" = 20'-0" 0' 20' 40'

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

SITE PLAN - ELECTRICAL

E0-1

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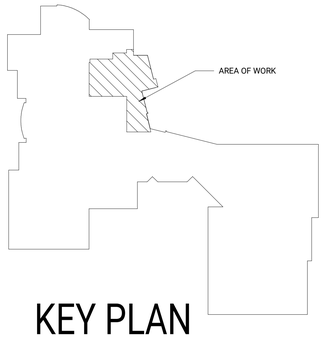

KEY PLAN

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FLAG NOTES

1. REMOVE EXISTING IRRIGATION CONTROLLER POWER AND SALVAGE FOR RELOCATION. MODIFY THE EXISTING CIRCUIT AS REQUIRED. SEE POWER PLAN FOR NEW LOCATION.

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

TRUE NORTH PLAN NORTH

#	Description	Date

LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

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Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

DEMOLITION PLAN - ELECTRICAL

ED1-1

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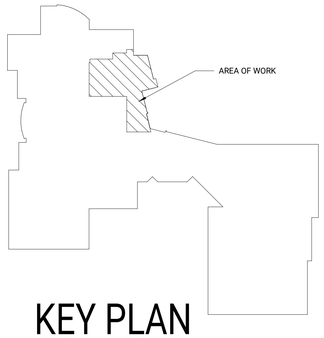

KEY PLAN

1 E1-1 FLOOR PLAN - LIGHTING AND FIRE ALARM

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

TRUE NORTH

PLAN NORTH

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FLAG NOTES

1. CONNECT NORMAL LIGHT FIXTURES TO EXISTING CIRCUIT FEEDING THIS AREA FROM PANEL L2. PANEL IS LOCATED IN AN ELECTRICAL ROOM APPROXIMATELY 100 FEET WEST OF CORRIDOR 111.
2. CONNECT EMERGENCY LIGHT FIXTURES TO EXISTING CIRCUIT FEEDING THIS AREA FROM PANEL E2. PANEL IS LOCATED IN AN ELECTRICAL ROOM APPROXIMATELY 100 FEET WEST OF CORRIDOR 111.
3. CONNECT TO SPARE 20/1 BREAKER IN PANEL R5.
4. POWER FOR BUILDING MOUNTED ILLUMINATED SIGN LOCATED ABOVE CEILING. ROUTE POWER TO SIGN LOCATION THROUGH SOFFIT. COORDINATE EXACT REQUIREMENTS WITH SIGN REVIEWED SHOP DRAWINGS.
5. PROVIDE NEW SINGLE POLE SWITCH FOR CONTROL OF NORMAL LIGHTS IN THIS AREA. MODIFY CIRCUITING FOR FIXTURES TO BE CONTROLLED BY THIS SWITCH.
6. PROVIDE NEW SINGLE POLE SWITCH FOR CONTROL OF EMERGENCY LIGHTS IN THIS AREA. MODIFY CIRCUITING FOR FIXTURES TO BE CONTROLLED BY THIS SWITCH.
7. MODIFY CIRCUITING FOR FIXTURES TO BE CONTROLLED WITH NEW CORRIDOR CONTROLS IN ADJACENT AREA.
8. PROVIDE SWITCH FOR CONTROL OF VESTIBULE LIGHTS IN THIS LOCATION.

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LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FLOOR PLAN - LIGHTING AND FIRE ALARM

E1-1

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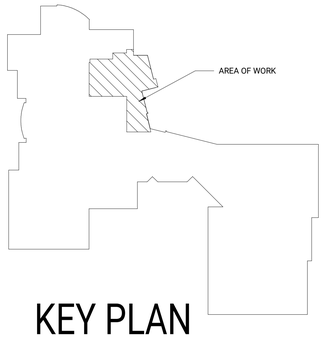

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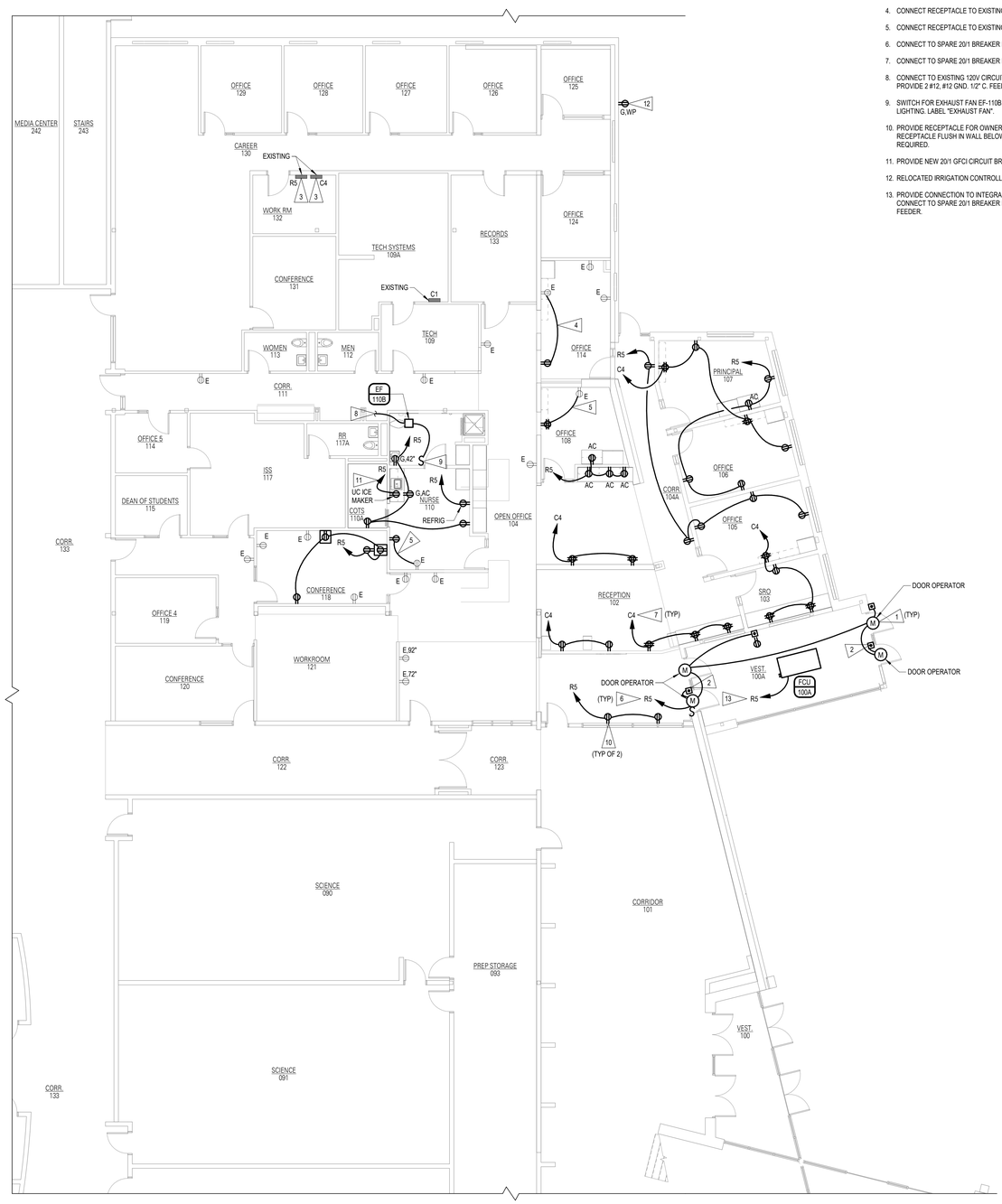

1 E2-1 FLOOR PLAN - POWER

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

TRUE NORTH

PLAN NORTH

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GENERAL NOTES

A. RECEPTACLES SHALL BE TAMPER-RESISTANT.

FLAG NOTES

1. CONNECT POWER ASSISTED DOOR OPERATOR. INSTALL PUSH-PLATES, SENSORS, AND NEW ACCESSORIES AS REQUIRED. CONNECT TO SECURITY CARD READERS AS REQUIRED FOR SECURE DOOR LOCATIONS. COORDINATE WITH DOOR HARDWARE SUPPLIER. PROVIDE POWER DISCONNECT SWITCH FOR LOCAL DISCONNECTING MEANS IN ACCESSIBLE CEILING LOCATION.
2. MULLION MOUNTED PUSH-PLATE BUTTON FOR ASSISTED DOOR OPERATOR.
3. CONFIRM THE QUANTITY OF SPARE CIRCUIT BREAKERS AVAILABLE WITH ENGINEER AFTER DEMOLITION IS COMPLETE.
4. CONNECT RECEPTACLE TO EXISTING CIRCUIT FROM PANEL R5 IN THIS ROOM.
5. CONNECT RECEPTACLE TO EXISTING CIRCUIT FROM PANEL C4 IN THIS ROOM.
6. CONNECT TO SPARE 20/1 BREAKER IN PANEL R5.
7. CONNECT TO SPARE 20/1 BREAKER IN PANEL C4.
8. CONNECT TO EXISTING 120V CIRCUIT FOR EXHAUST FANS IN THE AREA. PROVIDE 2 #12, #12 GND. 1/2" C. FEEDER.
9. SWITCH FOR EXHAUST FAN EF-110B. LOCATE ADJACENT TO SWITCH FOR LIGHTING. LABEL "EXHAUST FAN".
10. PROVIDE RECEPTACLE FOR OWNER PROVIDED IPAD STATION. LOCATE RECEPTACLE FLUSH IN WALL BELOW WINDOW. CUT AND PATCH WALL AS REQUIRED.
11. PROVIDE NEW 20/1 GFCI CIRCUIT BREAKER IN EXISTING PANEL INDICATED.
12. RELOCATED IRRIGATION CONTROLLER POWER.
13. PROVIDE CONNECTION TO INTEGRAL DISCONNECT SWITCH IN FCU-100A. CONNECT TO SPARE 20/1 BREAKER IN PANEL R5. PROVIDE 2 #12, #12 GND. 1/2" C. FEEDER.

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

FLOOR PLAN - POWER

E2-1

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LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	CATALOG NO.	SOURCE DATA			DIMMING PROTOCOL	COLOR TEMP (K)	VOLTAGE	MOUNTING	FINISH	ALTERNATE MANUFACTURER	REMARKS
				LUMENS	LOAD (VA)	PER FOOT							
A1	1x4 LENSED LED TROFFER	LITHONIA	GTL-4-20L-FW-GZ10-LP835	2000	19		0-10V, 10%	3500	277 V	RECESSED, GRID	WHITE		
A2	1x4 LENSED LED TROFFER	LITHONIA	GTL-F-4-20L-FW-GZ10-LP835	2000	19		0-10V, 10%	3500	277 V	RECESSED	WHITE		
A3	1x4 LENSED LED TROFFER	LITHONIA	GTL-F-4-33L-FW-GZ10-LP835	3300	28		0-10V, 10%	3500	277 V	RECESSED	WHITE		
A8	6" WIDE, 8' LENSED LED TROFFER	LITHONIA	LSIX-8FT-6000LM-80CRI-35K-FFR-SWL-MIN10-ZT-MVOLT-MW	6000	44		0-10V, 10%	3500	277 V	RECESSED, GRID	WHITE		
B1	BOLLARD	LUMINIS	LQ427-L1L20-LDS-40K-120-FS-M ST	2078	31		0-10V	4000	120 V	GRADE	MATTE SILVER		
D1	6" ROUND DOWNLIGHT, WET LOCATION LISTED	GOTHAM	EVO6-35/25-AR-LSS-MD-MVOLT-GZ10	2500	25		0-10V, 10%	3500	277 V	RECESSED	CLEAR		
D2	4" ROUND DOWNLIGHT, SHOWER RATED	GOTHAM	EVO4SH-35/20-DFF-SQL-MVOLT-EZ1-NLT	2000	20		0-10V	3500	277 V	RECESSED	WHITE		
D3	4" ROUND DOWNLIGHT	GOTHAM	EVO4-35/20-AR-LSS-MD-MVOLT-GZ10-TRW	2000	20		0-10V, 10%	3500	277 V	RECESSED	WHITE		
L10	6" WIDE, 10'-0" RECESSED LINEAR	MARK ARCHITECTURAL	SL6L-LOP-10FT-FLP-TG-80CRI-35K-600LMF-MIN10-277-ZT	600	6	X	0-10V, 10%	3500	277 V	RECESSED, GRID	WHITE		
L12	6" WIDE, 12'-0" RECESSED LINEAR	MARK ARCHITECTURAL	SL6L-LOP-12FT-FLP-TG-80CRI-35K-600LMF-MIN10-277-ZT	600	6	X	0-10V, 10%	3500	277 V	RECESSED, GRID	WHITE		
L16	6" WIDE, 16'-0" RECESSED LINEAR	MARK ARCHITECTURAL	SL6L-LOP-16FT-FLP-TG-80CRI-35K-600LMF-MIN10-277-ZT	600	6	X	0-10V, 10%	3500	277 V	RECESSED, GRID	WHITE		
P1	4.5" DIAMETER, 10" TALL PENDANT	EUREKA	4049-PEB-18-LED-35-90-277-DV-S10-36-BLKE-BLKE-NBE	1500	14		0-10V	3500	277 V	PENDANT, STEM	NAVY BLUE		
W1	EXTERIOR WALL SCONCE, WIDE DISTRIBUTION	LITHONIA	WDGE1 LED-P2-35K-80CRI-VW-MVOLT-PW-DNAXD	1900	15		0-10V	3500	277 V	SURFACE, WALL	ALUMINUM		2
X1	DIE CAST ALUMINUM EXIT SIGN, RED LETTERING, SINGLE FACE	LITHONIA	LQC-1-R	0	5				277 V	UNIVERSAL	ALUMINUM		1
X2	DIE CAST ALUMINUM EXIT SIGN, RED LETTERING, DOUBLE FACE	LITHONIA	LQC-2-R	0	5				277 V	UNIVERSAL	ALUMINUM		1

GENERAL NOTES
A. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
B. CONTRACTOR TO VERIFY LUMINAIRE CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
C. LUMINAIRE MARKS WITH THE LETTER "E" SUFFIX SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK.
D. LUMINAIRE MARKS WITH THE LETTER "S" SUFFIX SHALL BE PROVIDED WITH INTEGRAL SENSOR(S).
E. LISTED ALTERNATE MANUFACTURERS ARE PERMITTED TO BID AN EQUIVALENT LUMINAIRE WHICH COMPLIES WITH THE PRODUCT REQUIREMENTS IDENTIFIED IN THIS SCHEDULE AND THE SPECIFICATIONS WITHOUT SUBMITTING A PRIOR APPROVAL REQUEST. ALTERNATE LUMINAIRES WILL BE REVIEWED DURING THE SUBMITTAL PROCESS AND THE MANUFACTURER WILL BE RESPONSIBLE TO PROVIDE A LUMINAIRE WHICH MEETS THE PRODUCT REQUIREMENTS.
F. ELECTRICAL CONTRACTOR SHALL PROVIDE THE SPECIFIED LUMINAIRES DEFINED WITHIN THIS SCHEDULE AND ASSOCIATED CONTRACT DOCUMENTS. IF REQUIRED, THE ELECTRICAL CONTRACTOR MAY UTILIZE MULTIPLE DISTRIBUTORS AND/OR DISTRIBUTORS MAY UTILIZE MULTIPLE LIGHTING MANUFACTURER REPRESENTATIVES TO COMPLY WITH THE CONTRACT DOCUMENTS FOR THIS PROJECT.

REMARKS
1. REFER TO DRAWINGS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE FIXTURES ACCORDINGLY. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS.
2. ARCHITECT TO CONFIRM FINISH COLOR.

LIGHTING CONTROL SCHEDULE

MARK	MOUNTING	OCCUPANCY SENSOR			LOCAL ON/OFF	DIMMING	PARTITION SENSOR CONTROL	DAYLIGHT HARVESTING, WHERE INDICATED (TARGET FOOTCANDLES)	CONNECTED TO NETWORKED LIGHTING CONTROL SYSTEM	CONTROL INTERFACE FOR AV SYSTEM	EXTERIOR PHOTOCELL CONTROL	TIME OF DAY CONTROL	CONTROLLED RECEPTACLE(S)	SPACE TYPE	REMARKS
		MANUAL ON	AUTO ON	OCCUPANT DETECTION TIME-OUT											
A	CEILING	X	-	20	X	X	-	-	-	-	-	-	-	OFFICE	
C	CEILING	-	100%	-	X	-	-	-	-	-	-	-	-	CORRIDOR	
D	CEILING	X	-	20	X	X	-	-	-	-	-	-	-	CONFERENCE ROOM	
G	CEILING	X	-	20	X	X	-	-	-	-	-	-	-	NURSE	
H	CEILING	X	-	20	X	-	-	-	-	-	-	-	-	PRIVATE RESTROOM	
I	NONE	-	-	-	-	-	-	-	-	-	-	X	-	EXTERIOR	1
J	CEILING	-	100%	-	X	X	-	-	-	-	-	-	-	RECEPTION	

GENERAL NOTES
A. SEE LOW VOLTAGE SWITCH SCHEDULE FOR SWITCH/CONTROL REQUIREMENTS.
B. LIGHTING CONTROL DEVICES (WITH THE EXCEPTION OF SWITCHES) ARE NOT INDICATED ON LIGHTING PLANS. LIGHTING CONTROL SCHEDULE INDICATES CONTROL INTENT. PROVIDE SENSORS AND RELATED EQUIPMENT AS REQUIRED FOR COMPLETE COVERAGE AND CONTROL SCHEMES. SUBMIT SHOP DRAWINGS INDICATING DEVICE LAYOUT AND CIRCUITING. SEE SPECIFICATIONS.
C. EMERGENCY LUMINAIRES IDENTIFIED AS NIGHT LIGHTING (NL) SHALL BE CONNECTED UNSWITCHED TO THE INDICATED EMERGENCY POWER CIRCUIT.
D. EMERGENCY LIGHTING CONTROL:
   1. UNLESS INDICATED AS A NIGHTLIGHT (NL), EMERGENCY LIGHTING SHALL:
      - BE PROVIDED WITH AN EMERGENCY RELAY FOR EACH LIGHTING CONTROL ZONE. RELAY SHALL BE COMPATIBLE WITH DIMMING CONTROLS SPECIFIED FOR EACH SPACE.
      - BE CONTROLLED WITH THE NORMAL LUMINARES OF THE SAME ZONE WHEN NORMAL POWER IS PRESENT.
   2. PROVIDE A UL1008 RELAY (BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH) WHERE INDICATED ON THE PLANS FOR LUMINAIRES ON EMERGENCY POWER.
   3. PROVIDE A UL924 RELAY (AUTOMATIC LOAD CONTROL RELAY) FOR REMAINING APPLICATIONS.

REMARKS
1. CONNECT TO EXISTING EXTERIOR CONTROLS FOR TIME OF DAY CONTROL WITH EXISTING EXTERIOR LIGHTING.

LOW VOLTAGE SWITCH SCHEDULE

SWITCH MARK $ x	MINIMUM BUTTON QUANTITY	BUTTON ENGRAVED LABEL	ROOM ZONES CONTROLLED	FUNCTION	REMARKS
$	3	ON/OFF RAISE LOWER	SEE PLANS	ON/OFF DIM UP DIM DOWN	
$ 0	1	ON/OFF	SEE PLANS	ON/OFF	

GENERAL NOTES
A. PROVIDE EACH LOW-VOLTAGE SWITCH WITH PRE-ENGRAVED FACTORY LABELED BUTTONS INDICATING FUNCTION. WHERE MULTIPLE SWITCHES ARE GROUPED IN A SINGLE LOCATION OR FACEPLATE, PROVIDE ENGRAVED FACEPLATE INDICATING ZONE OR SPACE CONTROLLED.
B. EACH SPACE SHALL HAVE MINIMUM OF ONE ZONE OF CONTROL. WHERE MORE THAN ONE LIGHTING ZONE IS PRESENT, LOWERCASE LETTERING INDICATES SEPARATE LIGHTING ZONE WITHIN A ROOM.

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LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

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Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

ELECTRICAL SCHEDULES

E6-0

CONSTRUCTION DOCUMENTS
BCDM NO. 5551-00
06/19/2025

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LEFT BINDING EDGE

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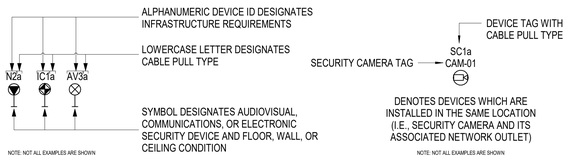
TECHNOLOGY SYMBOLS LEGEND

- FLOOR BOX OR FLOOR POKE-THRU DEVICE
- FLOOR CONDUIT STUB
- COMMUNICATIONS DEVICE - WALL
- COMMUNICATIONS DEVICE - CEILING
- AUDIOVISUAL DEVICE - WALL
- AUDIOVISUAL DEVICE - CEILING
- ELECTRONIC SECURITY DEVICE - WALL
- ELECTRONIC SECURITY DEVICE - CEILING, UNDERMOUNT, OR DOOR
- SPECIAL PURPOSE POWER RECEPTACLE - WALL
- SIMPLEX POWER RECEPTACLE - WALL
- DUPLEX POWER RECEPTACLE - WALL
- DOUBLE DUPLEX POWER RECEPTACLE - WALL
- HARDWIRED POWER CONNECTION - WALL
- SPECIAL PURPOSE POWER RECEPTACLE - CEILING
- SIMPLEX POWER RECEPTACLE - CEILING
- DUPLEX POWER RECEPTACLE - CEILING
- DOUBLE DUPLEX POWER RECEPTACLE - CEILING
- HARDWIRED POWER CONNECTION - CEILING
- SECURITY CAMERA - SINGLE SENSOR - WALL
- SECURITY CAMERA - SINGLE SENSOR - CEILING
- SECURITY CAMERA - PTZ - WALL
- SECURITY CAMERA - PTZ - CEILING
- SECURITY CAMERA - 360° - WALL
- SECURITY CAMERA - 360° - CEILING
- SECURITY CAMERA - MULTI-SENSOR - WALL
- SECURITY CAMERA - MULTI-SENSOR - CEILING
- SECURITY CAMERA - DUAL-SENSOR - WALL
- SECURITY CAMERA - DUAL-SENSOR - CEILING
- LOUDSPEAKER - CEILING (LOCATION SHOWN FOR COORDINATION PURPOSES ONLY)
- LOUDSPEAKER - WALL (LOCATION SHOWN FOR COORDINATION PURPOSES ONLY)
- CLOCK - WALL
- CABLE TRAY - REFER TO PLANS FOR SIZE
- COMMUNICATIONS CONDUIT - REFER TO PLANS FOR SIZE
- J-HOOK PATHWAY - REFER TO PLANS FOR SIZE
- CABLE LADDER RUNWAY - REFER TO PLANS FOR SIZE



REFER TO COMMUNICATIONS CABLING LEGEND
FOR MORE INFORMATION ON CABLE PULL TYPE

AC = ELECTRONICALLY CONTROLLED AND/OR MONITORED DOOR
AP = WIRELESS ACCESS POINT
AV = AUDIOVISUAL DEVICE
CR = CARD READER
FB = FLOOR BOX
FP = FLOOR POKE-THRU
FS = FLOOR STUB

IC = SECURITY INTERCOM
KP = SECURITY KEYPAD
MS = SECURITY MOTION SENSOR
N = COMMUNICATIONS OUTLET
P = POWER RECEPTACLE
PB = SECURITY PUSH-BUTTON
RX = SECURITY REQUEST-TO-EXIT BUTTON
SC = SECURITY CAMERA

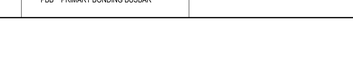
NOTES
1. FOR "AV" DEVICES, REFER TO AUDIOVISUAL INFRASTRUCTURE SCHEDULE.
2. FOR "N" AND "AP" DEVICES, REFER TO COMMUNICATIONS INFRASTRUCTURE SCHEDULE.
3. FOR "AC", "CR", "IC", "KP", "MS", "PB", "RX", AND "SC" DEVICES, REFER TO ELECTRONIC SECURITY INFRASTRUCTURE SCHEDULE.
4. FOR "FB", "FP", AND "FS" DEVICES, REFER TO TECHNOLOGY FLOOR INFRASTRUCTURE SCHEDULE.
5. FOR "P" DEVICES, REFER TO TECHNOLOGY POWER COORDINATION SCHEDULE.

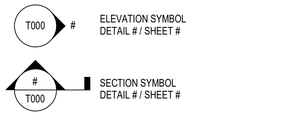
Xx(Yy,Zz)

DENOTES DEVICES WHICH CONTAIN OTHER DEVICES, FOR EXAMPLE:

AVx(Nx,Px) = COMBINATION AUDIOVISUAL BOX CONTAINING NETWORK OUTLET AND POWER RECEPTACLE
FBx(Nx,Px) = FLOOR BOX CONTAINING NETWORK OUTLET AND POWER RECEPTACLE
FPx(Nx,Px) = FLOOR POKE-THRU CONTAINING COMMUNICATIONS AND POWER FURNITURE FEEDS

NOTE: NOT ALL EXAMPLES ARE SHOWN

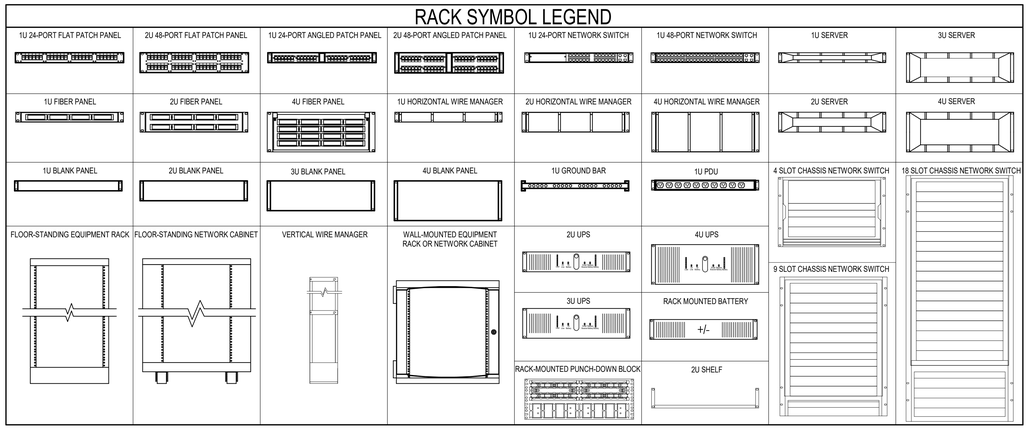




DISPLAY TYPE AND DISPLAY MOUNTING STYLE
REFER TO SHEET T002 FOR MORE INFORMATION

PROJECTION SCREEN TYPE AND PROJECTOR MOUNTING STYLE
REFER TO SHEET T002 FOR MORE INFORMATION

RACK SYMBOL LEGEND



ABBREVIATIONS

ACEG	AC EQUIPMENT GROUND
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALF	ALUMINUM FRAME DOOR
APPROX	APPROXIMATELY
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AV	AUDIOVISUAL
AVI	AUTOMATIC VEHICLE IDENTIFICATION
AWG	AMERICAN WIRE GAUGE
BMCS	BUILDING MANAGEMENT CONTROL SYSTEMS
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BLDG	BUILDING
BTC	BONDING CONDUCTOR FOR TELECOMMUNICATION
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CONDUIT
CAB	CABINET
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CL	CENTER LINE
CLEC	COMPETITIVE LOCAL EXCHANGE CARRIER
CLG	CEILING
CLR	CLEAR
CM	COMMUNICATIONS CABLE
CMP	COMMUNICATIONS PLENUM CABLE
CMR	COMMUNICATIONS RISER CABLE
COAX	COAXIAL CABLE
CO-OSP	CUSTOMER OWNED-OUTSIDE PLANT
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	CABLE TRAY
DAS	DISTRIBUTED ANTENNA SYSTEM
DIA	DIAMETER
DN	DOWN
DP	DEMARCATION POINT
DPS	DOOR POSITION SWITCH
DVR	DIGITAL VIDEO RECORDER
DWG	DRAWING
DX	DIRECT EXPANSION
EAC	ELECTRONIC ACCESS CONTROL
EC	ELECTRICAL CONTRACTOR
EGB	ELECTRICAL GROUND BAR
EL	ELEVATION
ELEC	ELECTRICAL
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
ER	EQUIPMENT ROOM
EXH	EXHAUST
EXIST	EXISTING
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FB	FLOOR BOX
FL	FLOOR
FO	FIBER OPTIC
FOV	FIELD OF VIEW
FP	FIBER PANEL
FT	FEET
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HGT	HEIGHT
HH	HANDHOLE
HMF	HOLLOW METAL FRAME DOOR
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
IC	INTERCOM
IDC	INSULATION DISPLACEMENT CONNECTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
IP	INTERNET PROTOCOL
ISP	INSIDE PLANT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LAN	LOCAL AREA NETWORK
LBM	LATCH BOLT MONITOR
LBS	POUNDS
LEC	LOCAL EXCHANGE CARRIER
MATV	MASTER ANTENNA TELEVISION
MAX	MAXIMUM
MBH	1000 BTU/HOUR
MC	MAIN CROSS CONNECT
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MGB	MAIN GROUND BAR
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MULTIMODE
MPOE	MAIN POINT OF ENTRANCE
MTD	MOUNTED
MTG	MOUNTING
MUTOA	MULTI USER TELECOMMUNICATIONS OUTLET ASSEMBLY
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NVE	NETWORK VIDEO ENCODER
NVR	NETWORK VIDEO RECORDER
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPE	OWNER PROVIDED ELECTRONICS
OSP	OUTSIDE PLANT
PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE
PBB	PRIMARY BONDING BUSBAR
PB	PULLBOX
PBO	PROVIDED BY OTHERS
PBX	PRIVATE BRANCH EXCHANGE
PDU	POWER DISTRIBUTION UNIT
PNL	PANEL
POE	POWER OVER ETHERNET
POP	POINT OF PRESENCE
PP	PATCH PANEL
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PTZ	PAN-TILT-ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RQE	REQUEST TO EXIT
SBB	SECONDARY BONDING BUSBAR
SCHD	SCHEDULE
SCTP	SCREENED TWISTED PAIR
SIM	SIMILAR
SLAB	SEALED LEAD ACID BATTERY
SM	SINGLE MODE
SPD	SURGE PROTECTIVE DEVICE
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
SSI	SECURITY SYSTEMS INTEGRATOR
STD	STANDARD
STP	SHIELDED TWISTED PAIR
SW	SWITCH
T-1	TRUNK LEVEL 1
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBBIBC	TELECOMMUNICATIONS BONDING BACKBONE INTERCONNECTING BONDING CONDUCTOR
TC	TELECOMMUNICATIONS CLOSET
TEL	TELEPHONE
TELECOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
TR	TELECOMMUNICATIONS ROOM
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VA	VOLT -AMPS
VERT	VERTICAL
VOIP	VOICE OVER INTERNET PROTOCOL
W	WATT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WMP	WIRE MANAGEMENT PANEL
WP	WEATHERPROOF
WTH	WIRE TRANSFER HINGE

SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS AND ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

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NOTE:
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing 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. READ SPECIFICATIONS.

COMMUNICATIONS CABLING NOTES:

A. INSTALL COMMUNICATIONS HORIZONTAL CABLES CONTINUOUS FROM WORK AREA OUTLET TO COMMUNICATIONS EQUIPMENT ROOM. DO NOT SPLICE COMMUNICATIONS CABLES.

B. CABLING DAMAGED DURING ITS INSTALLATION WILL NOT BE ACCEPTED. DAMAGED CABLING, INCLUDING PAINTED CABLES, SHALL BE REPLACED WITH NEW CABLING AT THE EXPENSE OF THE CONTRACTOR. DAMAGE INCLUDES PHYSICAL DAMAGE TO CABLES OR IMPROPER INSTALLATION PRACTICES THAT MAY AFFECT PERFORMANCE.

C. COORDINATE FINAL LOCATION OF ALL TECHNOLOGY OUTLETS AND DEVICES WITH ARCHITECTURAL ELEVATIONS AND ELECTRICAL PLANS.

D. REFER TO TECHNOLOGY DETAIL AND RISER SHEETS FOR CABLING, FACEPLATE, GROUNDING, AND PATHWAY DIAGRAMS.

E. REFER TO ELECTRICAL SCOPE FOR ADDITIONAL POWER AND ELECTRICAL PATHWAY REQUIREMENTS.

F. COORDINATE WITH THE GENERAL CONTRACTOR AND PAINTING SUBCONTRACTOR SO THAT COMMUNICATIONS CABLES ARE NOT PAINTED OR OVERSPRAYED. PAINTED CABLES SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

CONSTRUCTION CABLING NOTES:

A. ALL DEBRIS RESULTING FROM PENETRATIONS SHALL BE CLEARED AND REMOVED FROM SITE ON A DAILY BASIS.

B. PROTECT ALL MATERIALS AND SURFACES TO REMAIN. SURFACES AND MATERIALS DAMAGED DURING CONSTRUCTION WILL BE REPAIRED AND FINISHED TO MATCH ORIGINAL CONDITIONS. PROTECT EQUIPMENT AND FURNISHINGS WHERE CONSTRUCTION WILL CAUSE DUST, DEBRIS, AND POSSIBLE DAMAGE.

C. EXERCISE CARE WHEN REMOVING OR REPLACING SUSPENDED CEILING TILES. DAMAGED TILES SHALL BE REPLACED WITH NEW TILES. DAMAGE INCLUDES FINGERPRINTS LEFT ON NEW/EXISTING TILES.

D. STAGING AREAS USED FOR CONSTRUCTION SHALL BE RETURNED TO ORIGINAL CONDITION TO OWNER'S SATISFACTION. COORDINATE WITH THE GENERAL CONTRACTOR TO OBTAIN WORK TRAILER, MATERIAL STORAGE, STAGING, AND PARKING SPACE. PROVIDE WORK TRAILER, SECURE STORAGE SPACE, PHONE LINES, AND ANY OTHER SERVICE DEEMED NECESSARY. THE OWNER WILL NOT PROVIDE ANCILLARY SERVICES AT THE CONSTRUCTION SITE.

E. FIRESTOP ALL FLOOR, CABLE TRAY, CONDUIT, SLEEVE, AND WALL PENETRATIONS.

F. BOND ALL CABLE TRAYS AND CABLE LADDER RUNWAYS WITH CONDUIT SLEEVES AND PATHWAYS USING MANUFACTURER'S RECOMMENDED HARDWARE.

DETAIL NOTE:

A. PROJECT DETAILS ARE PROVIDED ON DESIGNATED DETAIL SHEETS. DETAILS APPLY TO THE ENTIRE PROJECT IN ALL LOCATIONS WHERE DETAILED CONDITION EXISTS AND ARE ONLY REFERENCED TO PROVIDE CLARITY IF NECESSARY.

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#	Description	Date

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Council Bluffs, IA 51503

LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

TECHNOLOGY SYMBOLS AND ABBREVIATIONS

T0-0

CONSTRUCTION DOCUMENTS
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AUDIOVISUAL INFRASTRUCTURE SCHEDULE

MARK	DEVICE FUNCTION	JUNCTION BOX DESCRIPTION	JUNCTION BOX MAKE	JUNCTION BOX MODEL	MOUNTING STYLE	REFERENCE DETAIL	NOTES	JUNCTION BOX DIMENSIONS		
								LENGTH	WIDTH	DEPTH
AV1	FLAT PANEL DISPLAY BACK BOX ASSEMBLY	RECESSED JUNCTION BOX W/ FLANGE AND COVER	CHIEF	PAC525FCW OR EQUIVALENT	55" AFF - FLUSH (UNO)	-	-	10 1/4"	15 3/8"	3 7/8"

COMMUNICATIONS INFRASTRUCTURE SCHEDULE

MARK	DEVICE FUNCTION	JUNCTION BOX DESCRIPTION	JUNCTION BOX MAKE	JUNCTION BOX MODEL	MOUNTING STYLE	REFERENCE DETAIL	NOTES
N1	CAMERA ROUGH-IN - ACCESSABLE CEILING	-	-	-	PROVIDE 6' SLACK LOOP ABOVE LOCATION	-	PROVIDE CAT6 DATA DROP FOR FUTURE CAMERA
N2	CAMERA ROUGH-IN - INACCESSABLE CEILING	-	-	-	PROVIDE 6' SLACK LOOP ABOVE LOCATION	-	PROVIDE CAT6 DATA DROP FOR FUTURE CAMERA
N3	NETWORK OUTLET - STANDARD	RECESSED JUNCTION BOX W/ RAISED 1-GANG TRIM RING	RACO	233 OR EQUIVALENT	18" AFF - FLUSH (UNO)	-	-
N4	NETWORK OUTLET - FLAT PANEL DISPLAY	JUNCTION BOX	RACO	420 OR EQUIVALENT	PART OF AV1	-	-

ELECTRONIC SECURITY INFRASTRUCTURE SCHEDULE

MARK	DEVICE FUNCTION	JUNCTION BOX DESCRIPTION	JUNCTION BOX MAKE	JUNCTION BOX MODEL	MOUNTING STYLE	REFERENCE DETAIL	NOTES
AC1	ELECTRONICALLY CONTROLLED AND/OR MONITORED DOOR	JUNCTION BOX	WIEGMANN	A080804 (INTERIOR) OR LOH080804 (EXTERIOR) OR EQUIVALENT	ABOVE ACCESSIBLE CEILING		
AC2	ELECTRONICALLY MONITORED DOOR	JUNCTION BOX	RACO	260 OR EQUIVALENT	ABOVE ACCESSIBLE CEILING	-	-
CR1	CARD READER - MULLION	3/4" HOLE THROUGH MULLION	N/A	N/A	SURFACE MOUNTED TO MULLION	-	-
CR2	CARD READER - MASONRY WALL	RECESSED JUNCTION BOX	RACO	688 OR EQUIVALENT	46" AFF - FLUSH (UNO)	-	-
CR3	CARD READER - STANDARD	RECESSED JUNCTION BOX W/ RAISED 1-GANG TRIM RING	RACO	233 OR EQUIVALENT	46" AFF - FLUSH (UNO)	-	-
IC1	VIDEO INTERCOM W/ NETWORK OUTLET	RECESSED JUNCTION BOX W/ RAISED 2-GANG TRIM RING	RACO	259 OR EQUIVALENT	46" AFF - FLUSH (UNO)	-	-

TECHNOLOGY FLOOR INFRASTRUCTURE SCHEDULE

MARK	DEVICE FUNCTION	DESCRIPTION	MAKE	MODEL	MOUNTING STYLE	REFERENCE DETAIL	NOTES
FB1	RECESSED FLOOR BOX W/ NETWORK, AND POWER (FURNITURE FEED)	RECESSED FLOOR BOX DEVICE W/ 2 COMPARTMENTS	LEGRAND	EFBFF-OG OR EQUIVALENT	FLUSH W/ FINISHED FLOOR	-	-

TECHNOLOGY POWER COORDINATION SCHEDULE

MARK	FUNCTION	VOLTS	PHASE	CIRCUIT BREAKER (AMPS)	NEMA	DESCRIPTION	DEDICATED CIRCUIT	ADDITIONAL REQUIREMENTS	MOUNTING STYLE	REFERENCE DETAIL	NOTES
P1	FLAT PANEL DISPLAY POWER	120	1	20	5-20R	DUPLEX RECEPTACLE INSIDE VIDEO DISPLAY BACK BOX		DEDICATED EQUIPMENT GROUND	PART OF VIDEO DISPLAY BACK BOX	-	-

COMMUNICATIONS CABLING LEGEND

TYPE	CATEGORY 6	CATEGORY 6A	COAXIAL	DETAIL
a	1	0	0	-
b	2	0	0	-
c	3	0	0	-
d	4	0	0	-
z	0	0	0	-

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LEWIS CENTRAL HIGH SCHOOL ENTRY ADDITION

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

TECHNOLOGY SCHEDULES

T0-1

CONSTRUCTION DOCUMENTS
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LEFT BINDING EDGE

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GENERAL NOTES:

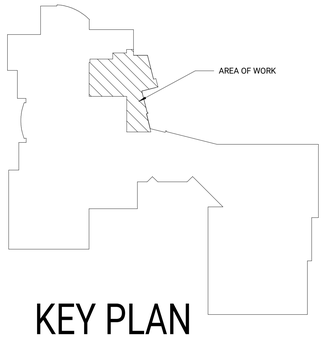
A. ALL DOORS WITH ELECTRONIC ACCESS CONTROL SHALL BE EQUIPPED WITH A MOTION SENSOR REQUEST TO EXIT DEVICE TO AVOID BREACH ALARMS.

B. INTEGRATE ADA OPERATORS INTO ACCESS CONTROL SUCH THAT THE OPERATOR IS DISABLED WHEN THE DOOR IS LOCKED.

C. REMOVE AND PRESERVE EXISTING INTERCOM MASTER STATION HANDSET/PHONES FROM OLD OFFICE/RECEPTION AREA FOR RE-USE.

FLAG NOTES:

1. TWO PUSH BUTTONS FOR OPENING DOORS. ONE BUTTON OPENS 100A.1 AND 100A.4. THE OTHER BUTTON OPENS 102 AND 102A.
2. LOCATION OF EXISTING ACCESS CONTROL SYSTEM DOOR BOARDS. ADD MORE AT THIS LOCATION AS NEEDED.
3. RELOCATE AN EXISTING INTERCOM MASTER STATION HANDSET/PHONE TO THIS LOCATION. TO BE USED TO ANSWER AND OPEN DOOR 100A.1. PROVIDE NEW CABLING AS REQUIRED.
4. EXISTING INTERCOM. REMOVE AND REUSE OUTSIDE DOOR 100A.1. BLANK OFF EXISTING INTERCOM BACKBOX.
5. DOOR SHALL BE CONFIGURED SUCH THAT BOTH EGRESS AND INGRESS CAN BE CONTROLLED BY THE ACCESS CONTROL SYSTEM.



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1 T1-1 FLOOR PLAN - INFRASTRUCTURE
1/8" = 1'-0" 0' 8' 16'

TRUE NORTH PLAN NORTH

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FLOOR PLAN - INFRASTRUCTURE

T1-1

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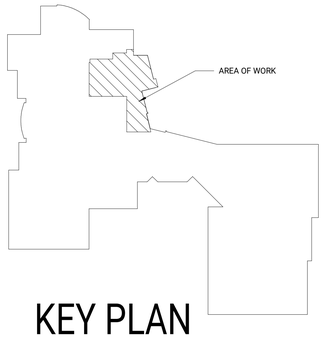

KEY PLAN

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1 T2-1 FLOOR PLAN - INFRASTRUCTURE REFLECTED CEILING PLAN

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

TRUE NORTH PLAN NORTH

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FLOOR PLAN - INFRASTRUCTURE REFLECTED CEILING PLAN

T2-1

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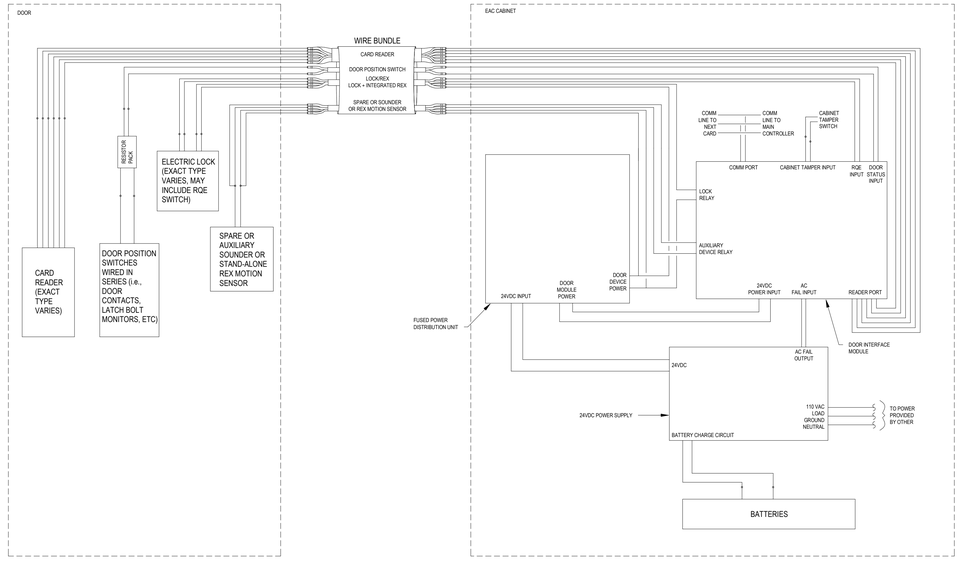
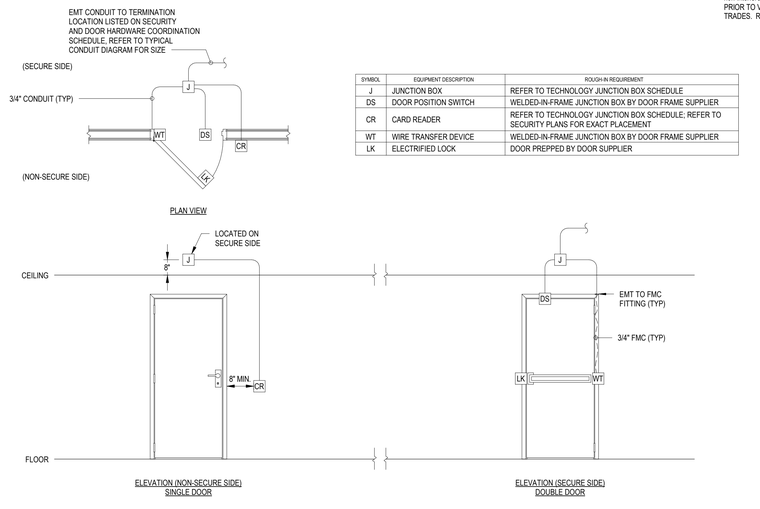


NOTES:

1. ◦ SPLICE POINT NO OTHERS ARE ALLOWED.
2. SEE FLOOR PLANS FOR EXACT DEVICE TYPES.

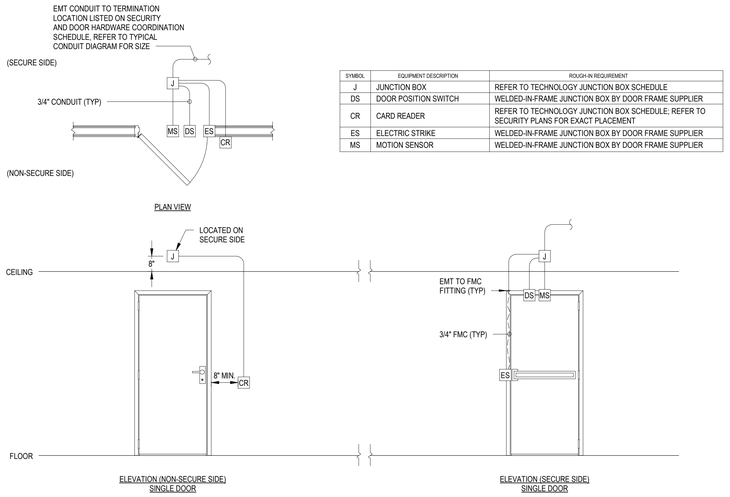
1 T8-0 TYPICAL CARD ACCESS SCHEMATIC
NO SCALE



SYMBOL	EQUIPMENT DESCRIPTION	ROUGH-IN REQUIREMENT
J	JUNCTION BOX	REFER TO TECHNOLOGY JUNCTION BOX SCHEDULE
DS	DOOR POSITION SWITCH	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER
CR	CARD READER	REFER TO TECHNOLOGY JUNCTION BOX SCHEDULE; REFER TO SECURITY PLANS FOR EXACT PLACEMENT
WT	WIRE TRANSFER DEVICE	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER
LK	ELECTRIFIED LOCK	DOOR PREPPED BY DOOR SUPPLIER

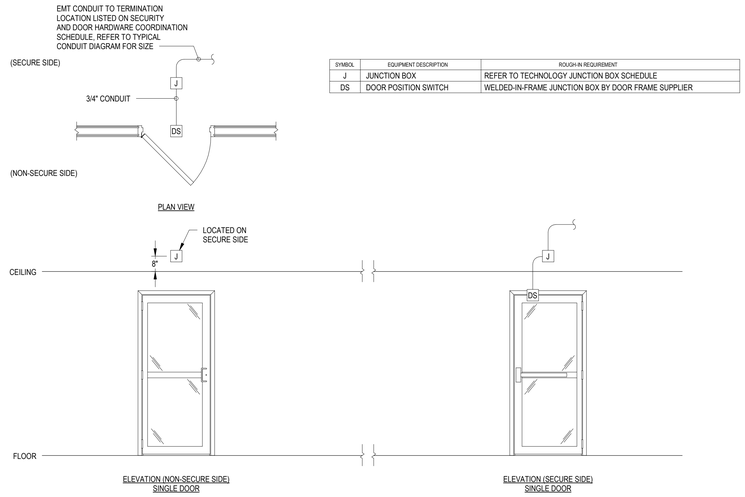
2 T8-0 SINGLE HOLLOW-METAL DOOR - J, DS, CR, WT, LK
NO SCALE

3 T8-0 UNDER DESK PUSH BUTTON
NO SCALE



SYMBOL	EQUIPMENT DESCRIPTION	ROUGH-IN REQUIREMENT
J	JUNCTION BOX	REFER TO TECHNOLOGY JUNCTION BOX SCHEDULE
DS	DOOR POSITION SWITCH	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER
CR	CARD READER	REFER TO TECHNOLOGY JUNCTION BOX SCHEDULE; REFER TO SECURITY PLANS FOR EXACT PLACEMENT
ES	ELECTRIC STRIKE	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER
MS	MOTION SENSOR	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER

4 T8-0 SINGLE HOLLOW-METAL DOOR - J, DS, CR, ES, MS
NO SCALE



SYMBOL	EQUIPMENT DESCRIPTION	ROUGH-IN REQUIREMENT
J	JUNCTION BOX	REFER TO TECHNOLOGY JUNCTION BOX SCHEDULE
DS	DOOR POSITION SWITCH	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER

5 T8-0 SINGLE HOLLOW-METAL FRAME DOOR - J, DS
NO SCALE

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LEWIS CENTRAL COMMUNITY SCHOOL DISTRICT

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T8-0

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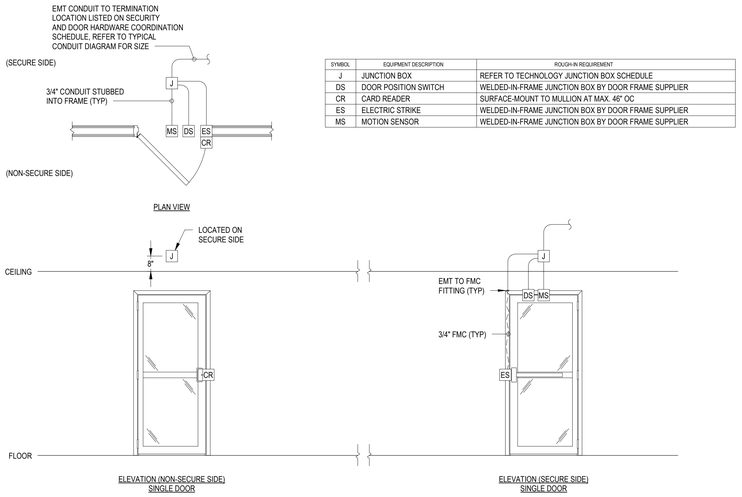
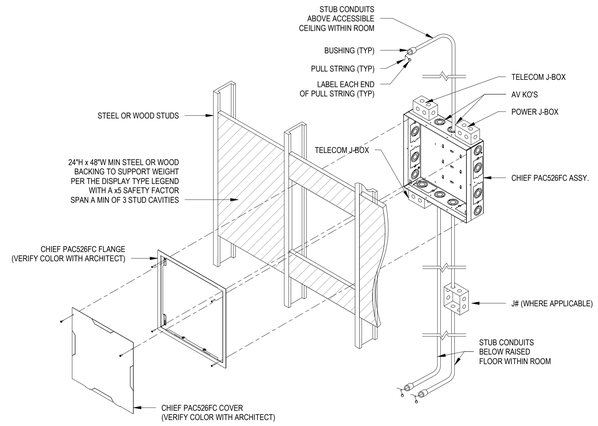


SYMBOL	EQUIPMENT DESCRIPTION	ROUGH-IN REQUIREMENT
J	JUNCTION BOX	REFER TO TECHNOLOGY JUNCTION BOX SCHEDULE
DS	DOOR POSITION SWITCH	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER
CR	CARD READER	SURFACE-MOUNT TO MULLION AT MAX. 46" OC
ES	ELECTRIC STRIKE	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER
MS	MOTION SENSOR	WELDED-IN-FRAME JUNCTION BOX BY DOOR FRAME SUPPLIER

1 T8-1 SINGLE HOLLOW-METAL FRAME DOOR - J, DS, CR(M), ES, MS

NO SCALE

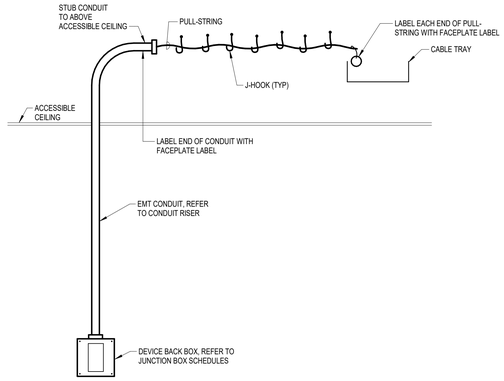


NOTES:

1. BACKING CENTERED AT LOCATION OF FLAT PANEL DISPLAY.
2. BACKING MUST BE 24"H x 48"W MIN
3. ALWAYS SPAN BETWEEN AT LEAST THREE STUD CAVITIES.
4. SEE PARTITION TYPES FOR STUD SIZE AND MATERIAL.
5. VERIFY LOCATIONS OF BACKING WITH PLANS & ROOM ELEVATIONS.
6. FLAT PANEL DISPLAYS AND MOUNTING BRACKETS BY AV CONTRACTOR.

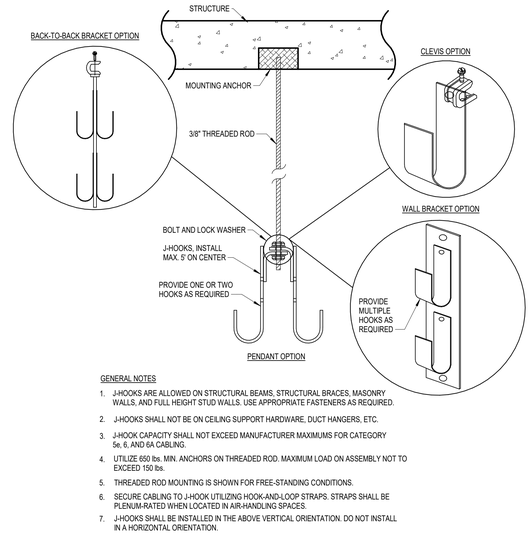
2 T8-1 WALL BOX - CHIEF PAC526FC BACKING

NO SCALE



3 T8-1 CONCEALED CONDUIT WITH J-HOOKS TO CABLE TRAY

NO SCALE

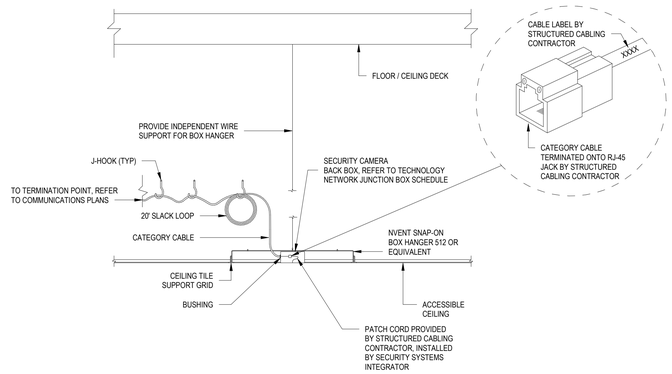


GENERAL NOTES

1. J-HOOKS ARE ALLOWED ON STRUCTURAL BEAMS, STRUCTURAL BRACES, MASONRY WALLS, AND FULL HEIGHT STUD WALLS. USE APPROPRIATE FASTENERS AS REQUIRED.
2. J-HOOKS SHALL NOT BE ON CEILING SUPPORT HARDWARE, DUCT HANGERS, ETC.
3. J-HOOK CAPACITY SHALL NOT EXCEED MANUFACTURER MAXIMUMS FOR CATEGORY 5e, 6, AND 6A CABLING.
4. UTILIZE 650 lbs. MIN. ANCHORS ON THREADED ROD. MAXIMUM LOAD ON ASSEMBLY NOT TO EXCEED 150 lbs.
5. THREADED ROD MOUNTING IS SHOWN FOR FREE-STANDING CONDITIONS.
6. SECURE CABLING TO J-HOOK UTILIZING HOOK-AND-LOOP STRAPS. STRAPS SHALL BE PLENUM-RATED WHEN LOCATED IN AIR-HANDLING SPACES.
7. J-HOOKS SHALL BE INSTALLED IN THE ABOVE VERTICAL ORIENTATION. DO NOT INSTALL IN A HORIZONTAL ORIENTATION.

4 T8-1 J-HOOK SUPPORT INSTALLATION

NO SCALE



NOTES:

1. UNLESS OTHERWISE INDICATED GENERAL CONTRACTOR TO PROVIDE ALL ELEMENTS SHOWN.

5 T8-1 COMMUNICATIONS J-BOX - ACCESSIBLE CEILING TILE WITH J-HOOK

NO SCALE

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