La-Z-Boy

3720 STATE HWY. 16, LA CROSSE, WI 54601

LA-Z-BOY - LA CROSSE

BUILDING SHELL CONSTRUCTION SET

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RICHARD T PIPEK A-11494 SHOREWOOD, WI — ARCHITECT — 10/16/25

STRUCTURAL ENGINEERS
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REID C SPIERING E-45308-6 GERMANTOWN WI — PROFESSIONAL ENGINEER — 10/16/2025

MEP ENGINEERS
SALAS O'BRIEN ENGINEERING CONSULTANTS
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JESSE NAUGHTON E-101232 ATLANTA GA — PROFESSIONAL ENGINEER — 10/16/2025

THOMAS L EVANS E-101195 ATLANTA GA — PROFESSIONAL ENGINEER — 10/16/2025

CIVIL ENGINEERS
HARWOOD ENGINEERING
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BRADLEY M SEUBERT 42485-6 GRAFTON, WI — PROFESSIONAL ENGINEER — 10/16/25

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT THE PROJECT SITE, INVESTIGATE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT. ADDITIONAL COSTS WILL NOT BE AWARDED FOR EXISTING CONDITIONS WHICH ARE VISIBLE AND/OR CAN BE REASONABLY ANTICIPATED.
2. G.C. IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SITE GRADES, ETC. PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES THAT COULD AFFECT THE DESIGN AND CONSTRUCTION OF THE STORE. BUILDING LAYOUT TO BE VERIFIED BY A LICENSED SURVEYOR AND THE PROJECT CIVIL ENGINEER WITH WRITTEN VERIFICATION FORWARDED TO THE OWNER/ARCHITECT.
3. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CITY AND STATE CODES AND STANDARDS.
4. G.C. IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL UTILITY COMPANIES AND PERFORMING ALL WORK REQUIRED BY THEM TO COMPLETE THEIR INSTALLATION. G.C. IS RESPONSIBLE FOR INSURING PROPER COMPACTION OF UTILITY COMPANY TRENCHES.
5. THE CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS AND CERTIFICATES OF OCCUPANCY.
6. EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) SHALL MEET THE REQUIREMENTS OF CHAPTER 14 OF THE IBC. IT IS REQUIRED THAT A SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER, COMPLETE AND SUBMIT ALL INFORMATION TO THE BUILDING OFFICIAL.
7. ALL EXCAVATION, TRENCHING, ETC. REQUIRED IN ROCK SUB-GRADE TO BE PART OF CONTRACT.
8. ALL WALKS SHALL BE SLOPED 4.75% MAXIMUM IN THE DIRECTION OF TRAVEL AND 1.75% ON CROSS SLOPES. ALL LANDING AND ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 1.75% IN ALL DIRECTIONS. COORDINATE WITH CIVIL DRAWINGS.
9. BUILDING AND PARKING LAYOUT TO BE DONE PER THE CIVIL DIMENSIONAL CONTROL PLANS.
10. ALL SPRINKLER PIPING AND OTHER SUSPENDED ITEMS TO BE SUPPORTED FROM TOP CHORD OF JOISTS. DO NOT SUSPEND ITEMS FROM BOTTOM CHORD WITHOUT SPECIFIC APPROVAL.
11. ALL PENETRATIONS AT GYPSUM WALLS AND PARTITIONS TO BE THOROUGHLY SEALED, SPACKLED, AND TAPED. PENETRATIONS INCLUDE HVAC DUCTWORK, WATER LINES, DRAINS, CONDUITS, THERMOSTAT WIRING, ETC. WHERE APPLICABLE, FOLLOW UL PENETRATION DETAILING THROUGH RATED WALLS.
12. ALL HVAC DUCTWORK, WATER LINES, DRAINS, CONDUITS, WIRING, ETC. MUST BE HUNG WITHIN THE TRUSS CAVITY AS HIGH AS POSSIBLE. G.C. IS RESPONSIBLE TO VERIFY FINAL LOCATION OF ANY OF THESE ELEMENTS WITH OWNER/ARCHITECT.
13. PROVIDE ADEQUATE BLOCKING AS REQUIRED TO SUPPORT LAVATORIES, TOILET FIXTURES & ACCESSORIES, ELECTRIC PANELS, ACCESS ROOF LADDER, ETC. ***ALL WOOD BLOCKING TO BE FIRE TREATED (TYP.)***
14. SUBSTANTIAL COMPLETION OF THE PROJECT WILL BE BASED UPON COMPLETION OF THE WORK SET FORTH IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS AND RECEIPT OF CERTIFICATE OF OCCUPANCY.
15. G.C. TO ALLOW ADEQUATE TIME FOR DELIVERY OF ITEMS SUCH AS ROLLING O.H. DOOR, ROOF HATCH, FIXTURES, CEILING ELEMENTS, ETC., G.C. IS RECOMMENDED TO PLACE ORDERS TO MEET NOTED LEAD TIMES PER CONSTRUCTION SCHEDULE.
16. SUBCONTRACTOR AND GENERAL CONTRACTOR TO BE RESPONSIBLE FOR SHORING & BRACING OF ALL EXCAVATION IN ACCORDANCE WITH CITY, STATE, AND OSHA REQUIREMENTS.
17. GENERAL CONTRACTOR IS TO INSTALL RAMP SIGNAGE FOR ACCESSIBILITY PER CITY, STATE, AND ANSI REQUIREMENTS. ALL CURB AND EXIT DOOR RAMPS (INTERIOR & EXTERIOR) ARE TO HAVE HEAVY BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.
18. DO NOT SUSPEND ANY ITEMS FROM HORIZONTAL BRIDGING OR X-BRACING, OR PIPING & CONDUITS ON ROOF DECK OR ANY WORK BY OTHER TRADES.
19. UNLESS OTHERWISE INDICATED, EACH SUBCONTRACTOR AND GENERAL CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND SUPPORTING ALL ITEMS FROM THE ROOF STRUCTURE FOR GRAVITY LOADS AND TO RESIST SEISMIC MOVEMENTS AS REQUIRED BY ALL APPLICABLE CODES. (ANY BRACING WITH A SIGNIFICANT VISUAL IMPACT IS SUBJECT TO ARCHITECT REVIEW & APPROVAL).
20. CONTRACTOR IS TO REFER TO M.E.P. DRAWINGS AND PROJECT MANUAL FOR ANY HINGED ACCESS PANELS NOT INDICATED IN ARCH. DWGS AND PROJECT MANUAL. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ACCESS PANEL LOCATIONS FOR DRYWALL, TILE, EIFS, AND PLASTER WORK WITH ALL TRADES. CONTRACTOR TO PROTECT ALL EXISTING ABOVE AND BELOW GRADE UTILITIES. CONTRACTOR WILL REPAIR ALL DAMAGE TO EXISTING CONDITION.
21. ALL INTERIOR & EXTERIOR DOOR HARDWARE IS TO COMPLY WITH LOCAL, STATE, AND FEDERAL ANSI REQUIREMENTS, WHETHER SPECIFICALLY INDICATED IN HARDWARE NOTES OR SPECIFICATIONS. THIS INCLUDES BUT IS NOT NECESSARILY LIMITED TO, DOOR CLOSERS, LATCH SETS, LOCK SETS, PRIVACY SETS, PANIC HARDWARE, CONTROLLERS, AUTOMATIC BOLTS, AND DOOR MOUNTED ELECTRIC STRIKES & ALARMS.
22. ALL EXPOSED EXTERIOR WALL MOUNTED CONDUITS, BUSS GUTTERS, JUNCTION BOXES, PANEL BOXES, METERS, PIPES, ETC. ARE TO BE THREE (3) COAT PAINTED WITH COLOR TO BE SELECTED BY THE ARCHITECT AND APPROVED BY LA-Z-BOY. ALL EXPOSED CONDUIT PIPES, JUNCTION BOXES, ROOF SCUTTLES, ETC. ABOVE THE ROOF BOTH IN MID FIELD AREAS AND ON BACKS OF PARAPETS ARE TO BE THREE (3) COAT PAINTED; COLOR TO BE SELECTED BY THE ARCHITECT AND APPROVED BY LA-Z-BOY.
23. DO NOT SCALE DRAWINGS - USE DIMENSIONS ONLY.
24. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF COMPLETE SETS OF CONTRACT DOCUMENTS TO ALL TRADES. EACH TRADE SHALL REVIEW ALL CONTRACT DOCUMENTS SO AS TO BE AWARE OF ALL ITEMS OF WORK AFFECTING THEIR RESPECTIVE TRADE. NO CLAIMS FOR "EXTRAS" WILL BE HONORED DUE TO FAILURE TO REVIEW COMPLETE SET OF DOCUMENTS.
25. PROVIDE FIRE TREATED WOOD BLOCKING AT WALL AND CEILING FRAMING FOR ANCHORAGE OF ELEMENTS TO BE FASTENED OVER FINISHED SURFACES INCLUDING, BUT NOT LIMITED TO WALL BUMPERS, HAND RAILS, GRAB RAILS, GRAB BARS, WOOD TRIM, TOILET ACCESSORIES, AND WALL MOUNTED EQUIPMENT.
26. THE GENERAL CONTRACTOR SHALL OBTAIN AND FURNISH TENANT WITH CERTIFICATE OF OCCUPANCY AND/OR INTERMEDIATE (TEMPORARY) CERTIFICATE OF OCCUPANCY AS REQUIRED FOR TENANT TO CONSTRUCT TENANT INTERIOR IMPROVEMENTS WITHIN DEMISED PREMISE.
27. GENERAL CONTRACTOR MUST KEEP THE APPROVED BID DOCUMENT STAMPED SET ON SITE AT ALL TIMES.
28. ALL DIMENSIONS SHOWN ON ARCHITECTURAL & STRUCTURAL DRAWINGS ARE TO FACE OF STUD, CONCRETE, OR STEEL UNLESS NOTED OTHERWISE. LAY-Z-BOY "I" SERIES DRAWINGS ARE TO FACE OF FINISH U.N.O. EXTERIOR DIMENSIONS ARE SHOWN FROM OUTSIDE FACE OF STUD/FOUNDATION WALL TO COLUMN CENTERLINES AND TO DOOR/WINDOW OPENINGS. BUILDING LINES ARE TO REPRESENT THE OUTSIDE FACE OF BUILDING FOUNDATION WALL WHICH ALIGNS WITH OUTSIDE FACE OF WALL STUDS.
29. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK SHOWN ON DRAWINGS.
30. REFER TO MASTER VENDOR CONTACT LISTING ON SHEET I-1.1 FOR A LIST OF VENDOR COORDINATION ITEMS.
31. LA-Z-BOY AND IT'S AFFILIATES, ASSIGNEES DO NOT WARRANT THE INFORMATION PROVIDED AND ASSUMES NO LIABILITY FOR THE SUITABILITY OR ACCURACY OF THE PROTOTYPE CONSTRUCTION DOCUMENTS. THE DESIGN DATA PROVIDED HEREWITH ARE THE PROPERTY OF LA-Z-BOY INCORPORATED AND MAY NOT BE DISTRIBUTED OR USED BY ANY PARTIES WITHOUT ITS EXPRESS WRITTEN AUTHORIZATION.
32. INSTALL CLASS II VAPOR RETARDER FULL HEIGHT AT EXTERIOR WALLS PER MANUFACTURERS' RECOMMENDATIONS. VAPOR RETARDER PLACEMENT IN ACCORDANCE WITH REGIONAL DESIGN CODES.

SEPARATE PERMITS REQUIRED

- EXTERIOR SIGNAGE
- AUTOMATIC SPRINKLER SYSTEM
- FUTURE TENANT BUILD-OUT

CODE INFORMATION

GROSS BUILDING AREA:	12,892 SF
USE GROUP CLASSIFICATION:	M - MERCANTILE
NUMBER OF STORIES:	1
IECC CLIMATE ZONE:	6

BUILDING AND CLASSIFICATION & DATA

CONSTRUCTION TYPE:	TYPE V-B, SPRINKLERED (PER CH. 5 - MAX HEIGHT: 60' | MAX AREA; 36,000 SF)
FIRE PROTECTION SYSTEMS:	FULLY SPRINKLERED AND MONITORED SYSTEM PER 2015 INTERNATIONAL BUILDING CODE.
APPLICABLE CODES:	(SEPARATE SUBMITTAL AND PERMIT REQUIRED)
BUILDING CODE:	IBC 2015 EDITION W/ STATE AMENDMENTS
STRUCTURAL CODE:	IBC 2015 EDITION W/ STATE AMENDMENTS
ELECTRIC CODE:	NEC 2017 EDITION W/ STATE AMENDMENTS
MECHANICAL CODE:	IMC 2015 EDITION W/ STATE AMENDMENTS
FUEL GAS CODE:	IFGC 2015 EDITION W/ STATE AMENDMENTS
PLUMBING CODE:	2023 WISCONSIN PLUMBING CODE, SPS 361-387
ACCESSIBILITY CODE:	ICC A117.1-2009
ENERGY CODE:	IECC 2015 EDITION W/ STATE AMENDMENTS

TRAVEL DISTANCE

** INFORMATION WILL BE UPDATED FOR FUTURE TENANT BUILD-OUT **

MAXIMUM TRAVEL DISTANCE ALLOWED:	250'-0" FEET	(TABLE 1017.2)
MAXIMUM TRAVEL DISTANCE PER PLAN:	154'-4" FEET	
# OF EXITS REQ'D:	2 PER STORY - OCC. LOAD 1<x<500 PER STORY (TABLE 1006.3.1)	

OCCUPANT LOAD FOR EXIT WIDTH CALCULATIONS

** INFORMATION BASED ON FUTURE TENANT BUILD-OUT **

USE GROUP	FLR. AREA	÷	FLOOR AREA / OCCUPANT	=	# OF OCCUPANTS
M - MERCANTILE					
SHOWROOM	10,954 SF	÷	60 SF (GROSS) / OCCUPANT	=	183 OCCUPANTS
STOCK ROOM	550 SF	÷	300 SF(GROSS) / OCCUPANT	=	2 OCCUPANTS
OFFICES	126 SF	÷	100 SF (GROSS) / OCCUPANT	=	2 OCCUPANTS
BREAK ROOM	166 SF	÷	15 SF (NET) / OCCUPANT	=	12 OCCUPANTS
			TOTAL	=	**199 OCCUPANTS**

199 X 0.2" / OCCUPANT = 39.8" CLEAR WIDTH REQUIRED (SECTION 1005.3.2)

DOORS (100A = 68") + (101 = 34") = 102" CLEAR WIDTH PROVIDED FOR EGRESS

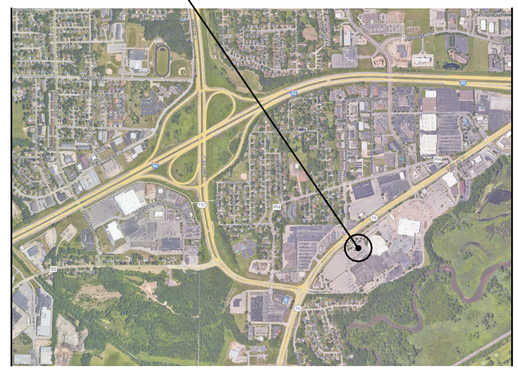
TOILET FIXTURE REQUIREMENTS

REQUIRED PLUMBING FIXTURES TO BE PROVIDED AS PART OF FUTURE TENANT BUILD-OUT PROJECT

	REQUIRED BY CODE			TO BE PROVIDED		
	TOILETS	LAVATORIES	URINALS	TOILETS	LAVATORIES	URINALS
MEN'S	1	1	0	1	1	1
WOMEN'S	1	1	0	1	1	0

1 WATER COOLER REQUIRED - 1 HIGH/LOW TO BE PROVIDED
1 SERVICE SINK REQUIRED - 1 TO BE PROVIDED

PROJECT LOCATION



LOCATION MAP

NORTH

(NOT TO SCALE)

DRAWING INDEX

SHEET	DESCRIPTION	REVISIONS
G1.1	TITLE SHEET, SHEET INDEX, LOCATION MAP	
CIVIL		
C1.00	PROJECT LOCATION AND GENERAL NOTES	
C1.10	SITE PLAN	
C1.20	GRADING PLAN	
C1.30	EROSION CONTROL PLAN	
C1.40	DEMOLITION PLAN	
C1.50	EXISTING SURVEY	
C5.00	CONSTRUCTION DETAILS	
C5.01	CONSTRUCTION DETAILS	
C6.00	SPECIFICATIONS	
C6.01	SPECIFICATIONS	
LANDSCAPING		
L1.00	LANDSCAPE PLAN	
L2.00	LANDSCAPE NOTES & DETAILS	
ARCHITECTURAL		
A0.1	ARCHITECTURAL SPECIFICATIONS	
A0.2	ARCHITECTURAL SPECIFICATIONS	
A0.3	ARCHITECTURAL SPECIFICATIONS	
A0.4	ARCHITECTURAL SPECIFICATIONS	
A0.5	ARCHITECTURAL SPECIFICATIONS	
A0.6	ARCHITECTURAL SPECIFICATIONS	
A0.7	ARCHITECTURAL SPECIFICATIONS	
A2.0	ARCHITECTURAL SITE PLANS & DETAILS	
A3.1	CONSTRUCTION PLAN	
A3.2	REFLECTED CEILING PLAN	
A4.1	DOOR SCHEDULE, TYPES AND DETAILS	
A5.1	BUILDING ELEVATIONS	
A5.2	BUILDING ELEVATIONS	
A6.1	BUILDING SECTION, WINDOW TYPES, & DETAILS	
A6.2	WALL SECTIONS	
A6.3	WALL SECTIONS & DETAILS	
A6.4	WALL TYPES	
A7.1	ROOF PLAN & DETAILS	
STRUCTURAL		
S0.0	3D VIEWS AND TITLE SHEET	
S0.1	STRUCTURAL GENERAL NOTES	
S0.2	STRUCTURAL SCHEDULES	
S0.3	STRUCTURAL SCHEDULES	
S1.0	FOUNDATION PLAN	
S1.1	ROOF FRAMING PLAN	
S3.0	CONCRETE SECTIONS & DETAILS	
S3.1	CONCRETE SECTIONS & DETAILS	
S5.0	STEEL SECTIONS & DETAILS	
S6.0	WOOD SECTIONS & DETAILS	
S6.1	WOOD ROOF SECTIONS & DETAILS	
PLUMBING		
P-0.1	PLUMBING GENERAL	
P-0.2	PLUMBING SPECIFICATIONS	
P-1.1	PLUMBING PLAN	
P-2.1	PLUMBING ROOF PLAN	
P-3.1	PLUMBING RISERS	
MECHANICAL		
M-0.1	MECHANICAL GENERAL	
M-0.2	MECHANICAL SCHEDULES & DETAILS	
M-1.1	MECHANICAL NEW WORK PLAN	
M-2.1	MECHANICAL ROOF PLAN	
BUILDING ELECTRICAL		
E-0.1	ELECTRICAL GENERAL	
E-0.2	ELECTRICAL SPECIFICATIONS	
E-0.3	ELECTRICAL SPECIFICATIONS	
E-0.4	ELECTRICAL SPECIFICATIONS	
E-0.5	ELECTRICAL SPECIFICATIONS	
E-1.1	LIGHTING PLAN	
E-2.1	ELECTRICAL PLAN	
E-2.2	ELECTRICAL ROOF PLAN	
E-3.1	ELECTRICAL SCHEDULES	
E-4.1	COMPLIANCE REPORT	
SITE ELECTRICAL		
ES0.1	ELECTRICAL SYMBOLS, ABBREVIATIONS, & NOTES	
ES1.0	ELECTRICAL SITE PLAN	
ES1.1	LIGHTING SCHEDULES & DETAILS	

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FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
TITLE SHEET, SHEET INDEX, LOCATION MAP

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
G1.1

BUILDING SHELL CONSTRUCTION SET

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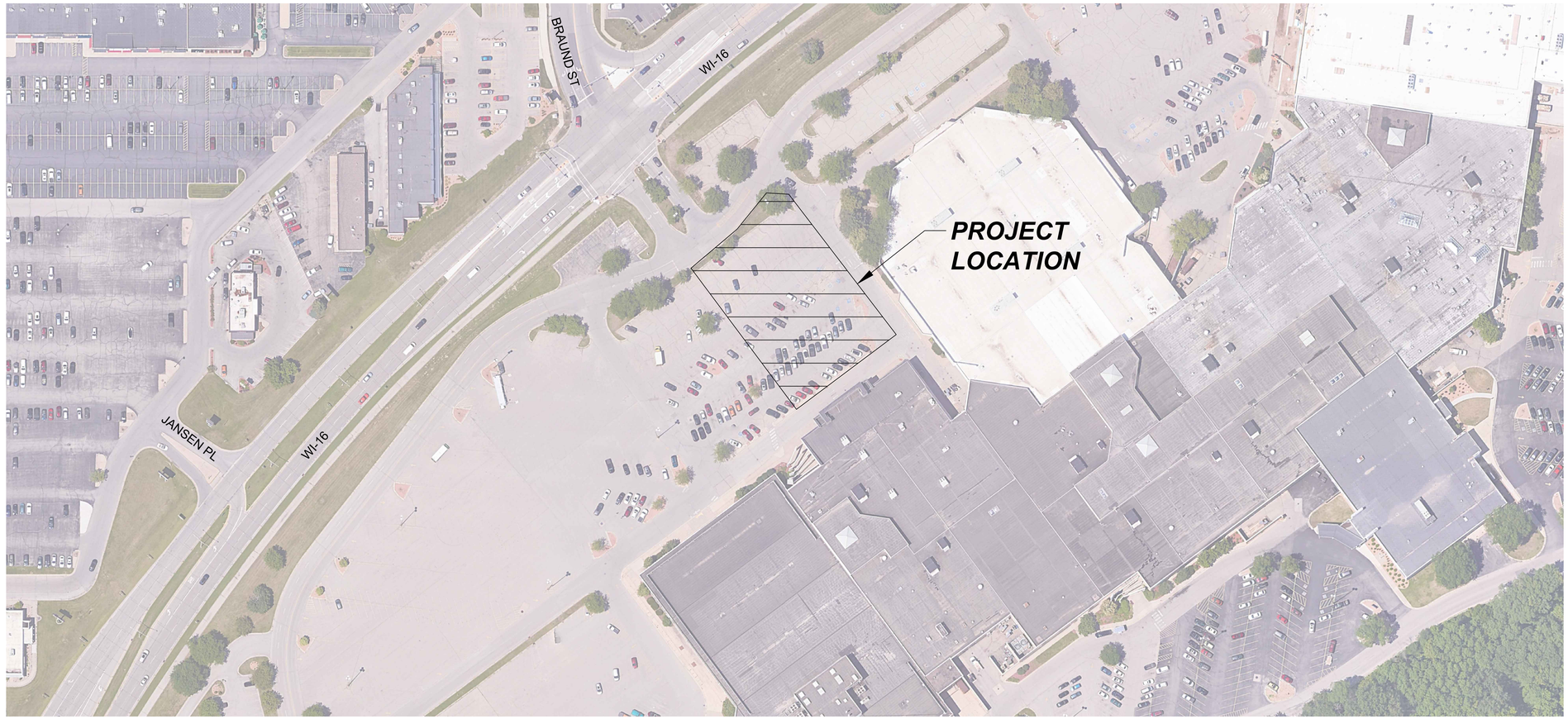

CIVIL SHEET INDEX:

C1.00	PROJECT LOCATION AND GENERAL NOTES
C1.10	SITE PLAN
C1.20	GRADING PLAN
C1.30	EROSION CONTROL PLAN
C1.40	DEMOLITION PLAN
C1.50	EXISTING SURVEY
C5.00	CONSTRUCTION DETAILS
C5.01	CONSTRUCTION DETAILS
C6.00	SPECIFICATIONS
C6.01	SPECIFICATIONS

WISCONSIN
BRADLEY M SEUBERT
42485-6
GRAFTON, WI
PROFESSIONAL ENGINEER
10/16/25

LEGEND:

UTILITY

EXISTING:

- WATERMAIN
- BURIED ELECTRIC
- OVERHEAD WIRE
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- UTILITY POLE
- LIGHT POLE
- SANITARY MANHOLE
- FIRE HYDRANT
- WATER VALVE
- STORM SEWER STRUCTURE

PROPOSED:

- WATERMAIN
- ELECTRICAL LINE
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- WATER VALVE
- STORM SEWER STRUCTURE
- FLARED END SECTION

GRADING

EXISTING:

- MAJOR CONTOUR
- MINOR CONTOUR
- EXISTING SPOT ELEVATION (EXIST 100.00)

PROPOSED:

- MAJOR CONTOUR
- MINOR CONTOUR
- SPOT ELEVATION (FINISHED GRADE, TOP OF PAVEMENT, FLANGE OF CURB)
- DOOR ELEVATION
- GROUND GRADE AT BUILDING
- SPOT ELEVATION (T/C - TOP OF CURB, E/P - EDGE OF PAVEMENT)
- RETAINING WALL SPOT ELEVATION (T/W - GROUND GRADE AT TOP OF WALL, B/W - GROUND GRADE AT BOTTOM)
- FLARED END SECTION (PIPE SIZE, INVERT ELEVATION)
- DRAINAGE FLOW DIRECTION
- EMERGENCY OVERFLOW ROUTE

SITE

EXISTING:

- EXISTING PARKING COUNT
- EXISTING SIGN
- EXISTING ADA PARKING SPACE

PROPOSED:

- PARKING COUNT
- ADA PARKING SPACE
- SIGN
- TRUNCATED DOMES
- PAVEMENT MARKING DIRECTIONAL ARROWS

GENERAL NOTES AND SPECIFICATIONS:

1. THE EXISTING SITE INFORMATION ON THIS PLAN WAS TAKEN FROM A SITE SURVEY PROVIDED BY CAPITOL SURVEY ENTERPRISES. THE ENGINEER MAKES NO WARRANTY OR REPRESENTATION WITH REFERENCE TO THE ACCURACY AND COMPLETENESS OF THE EXISTING CONDITIONS INDICATED OR NOT INDICATED ON THE ENGINEERING PLANS PROVIDED. VERIFY THE LOCATION OF ALL EXISTING SITE CONDITIONS INCLUDING UNDERGROUND UTILITIES. UNDERGROUND UTILITY ELEVATIONS, BUILDING SETBACKS AND EXISTING BUILDING LOCATIONS. THE CONTRACTOR SHALL INFORM THE OWNER AND ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH WORK. QUESTIONS REGARDING THE EXISTING SURVEY SHALL BE DIRECTED TO THE PARTIES LISTED ABOVE.
2. BEFORE PROCEEDING WITH ANY UTILITY CONSTRUCTION, EXCAVATE EACH EXISTING LATERAL TO BE CONNECTED TO VERIFYING ELEVATION, LOCATION AND SIZE). SHOULD THE EXISTING UTILITY NOT BE AS INDICATED ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR EVALUATION.
3. ALL UTILITY CONSTRUCTION SHALL ADHERE TO THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (2003), AS WELL AS, THE MUNICIPAL CONSTRUCTION STANDARDS AND THE DEPT. OF SAFETY AND PROFESSIONAL SERVICES SEC. 382-387.
4. ALL PERMITS MUST BE RECEIVED FROM THE MUNICIPALITY AND WDNR (IF REQUIRED) PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ALL APPLICABLE PERMITS ARE RECEIVED PRIOR TO STARTING CONSTRUCTION.
5. NOTIFY THE PUBLIC WORKS INSPECTION DEPT. AT LEAST 48 HOURS BEFORE STARTING CONSTRUCTION.
6. BACKFILL REQUIREMENTS AND ROADWAY/SIDEWALK RESTORATION SHALL ADHERE TO LOCAL STANDARDS (GRANULAR BACKFILL UNDER OR WITHIN 5' OF CURBS, SIDEWALK, OR PAVEMENT. SPOIL MAY BE USED ELSEWHERE. SLURRY BACKFILL WILL BE REQUIRED IN PUBLIC ROADWAYS.)
7. ALL BUILDING UTILITIES SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
8. ALL PROPOSED WATERMAIN SHALL BE DUCTILE IRON, CENTRIFUGALLY CAST, CEMENT MORTAR LINE, ANSI/AWWA C151/A21.51 AND ANSI/AWWA C104/A21.4.
9. PROPOSED SANITARY SEWER PIPE SHALL BE PVC, ASTM D-3034, SDR 35 WITH RUBBER GASKETED JOINTS CONFORMING TO ASTM D-3212 (UNLESS OTHERWISE NOTED).
10. PROPOSED STORM SEWER SHALL BE PVC, ASTM D-3034, SDR 35 WITH RUBBER ELASTOMERIC JOINTS CONFORMING TO ASTM D-3212 (UNLESS OTHERWISE NOTED).
11. A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NONMETALLIC UTILITIES MUST BE PROVIDED. PROVIDE TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED IN ACCORD WITH THE PROVISIONS SECTIONS 182.0715(2R) OF THE STATE STATUTES.
12. UTILITY TRENCHES SHALL BE MECHANICALLY COMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.
13. ALL MANHOLES, CATCH BASINS, INLETS, VALVES BOXES, ETC WITHIN THE PROJECT AREA SHALL BE RESET AND ADJUSTED TO MATCH FINISH GRADE.
14. ALL EXCAVATED OR STRIPPED MATERIALS NOT BEING REPLACED IN UTILITY TRENCHES OR BEING USED FOR FILL SHALL BE REMOVED FROM THE SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
15. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING & FOUNDATION DETAILS AND ORIENTATION.
16. ALL ON-SITE CONCRETE CURB AND GUTTER TO BE 18" WIDE VERTICAL FACE, UNLESS OTHERWISE NOTED. REVERSE OR REGULAR STYLE CURB DENOTED ON PLANS.
17. ALL CURB ELEVATIONS ARE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. SEE CURB DETAIL FOR TOP OF CURB ELEVATIONS.
18. ALL CURB RADII ARE MEASURED TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
19. MATCH PROPOSED CONCRETE CURB AND GUTTER, SIDEWALK AND PAVEMENT TO EXISTING IN ELEVATION AND ALIGNMENT.
20. REMOVAL OF CURB AND GUTTER, SIDEWALK AND PAVEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE WISCONSIN D.O.T.
21. ALL CONCRETE FOR CURB AND GUTTER, ROADWAY AND SIDEWALKS MUST CONFORM TO THE STANDARD SPECIFICATIONS FOR READY MIXED CONCRETE. MINIMUM 28 DAY COMPRESSIVE STRENGTH TEST MUST EQUAL 4000 PSI.
22. PROTECT ALL PROPERTY CORNERS.
23. REPAIR ANY DAMAGE TO EXISTING UTILITIES OR SITE IMPROVEMENTS. DOCUMENT ALL EXISTING DAMAGE PRIOR TO START OF CONSTRUCTION AND NOTIFY CONSTRUCTION MANAGER OF ANY FINDINGS.
24. AS-BUILTS ARE TO BE PROVIDED TO THE CLIENT TRACKING ANY CHANGES THAT OCCURRED DURING CONSTRUCTION.

DIGGER'S HOTLINE — CALL BEFORE YOU DIG — 1-800-242-8511

IN ACCORDANCE WITH WISCONSIN STATUTE 182.0175, DAMAGE TO TRANSMISSION FACILITIES, EXCAVATOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE ADVANCE NOTICE TO THE DESIGNATED "ONE CALL SYSTEM" NOT LESS THAN THREE WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION REQUIRED TO PERFORM WORK CONTAINED ON THESE DRAWINGS, AND FURTHER, EXCAVATOR SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF THIS STATUTE RELATIVE TO EXCAVATOR'S WORK.

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833 E. Michigan St. | Suite 540 | Milwaukee, WI 53202
ph. 414.278.6804 | www.instudioarch.com

PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

North

SCALE: 1" = 80'

SHEET TITLE:
PROJECT LOCATION AND GENERAL NOTES

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C1.00

BUILDING SHELL CONSTRUCTION SET

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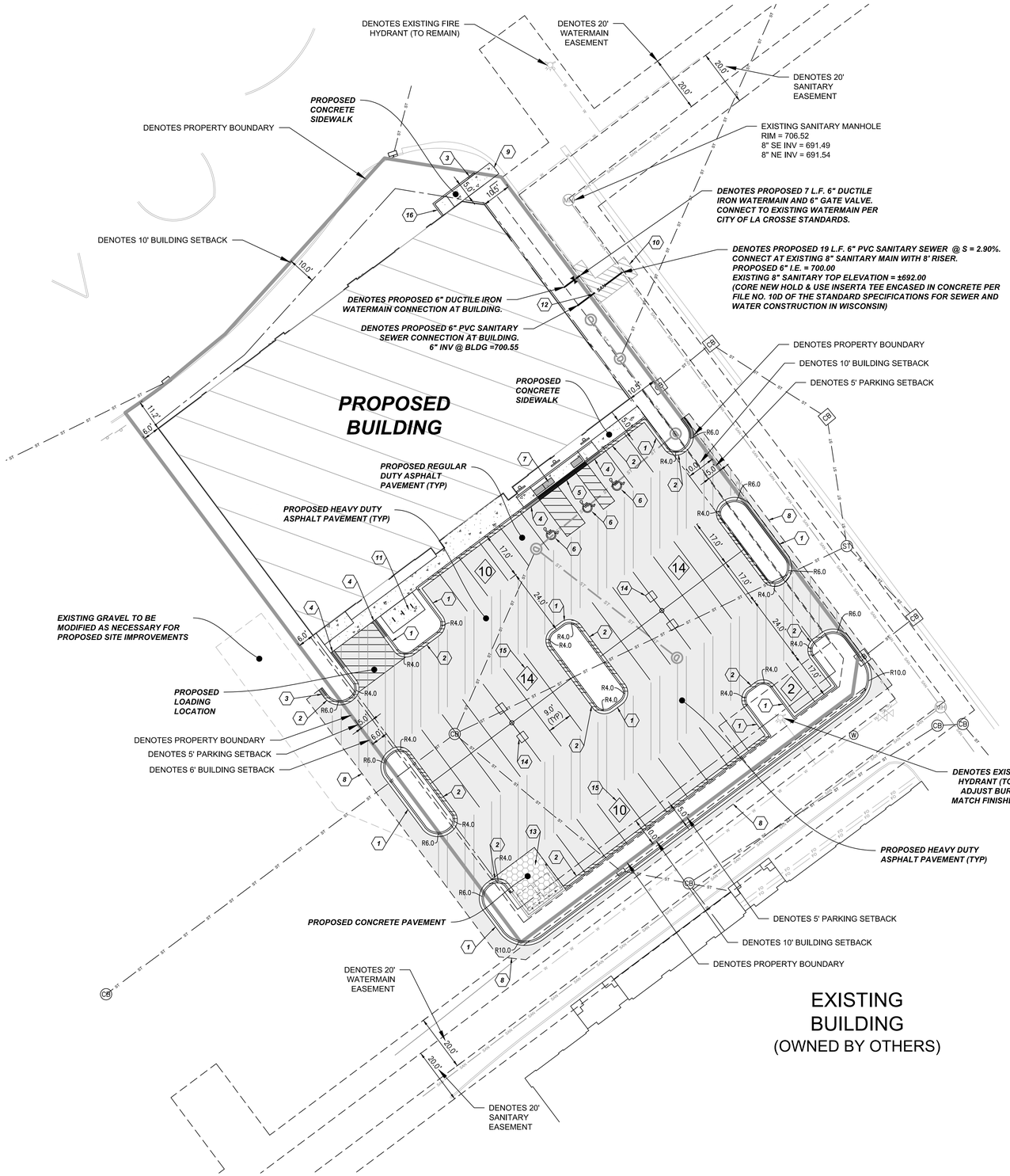

NOTES

1. DENOTES PROPOSED 18" REGULAR STYLE CURB AND GUTTER (TYP)
2. DENOTES PROPOSED 18" REVERSE STYLE CURB AND GUTTER (TYP)
3. DENOTES PROPOSED 3' CURB TAPER
4. DENOTES PROPOSED 6' CURB TAPER
5. DENOTES PROPOSED DEPRESSED CURB AND GUTTER
6. DENOTES PROPOSED ADA PARKING STALL. SEE SHEET C5.00 FOR GRADING AND DETAILS
7. DENOTES PROPOSED ADA RAMP (TYPE 2)
8. SAW CUT EXISTING PAVEMENT (FULL DEPTH) AND CREATE BUTT JOINT WHERE PROPOSED MEETS EXISTING. MATCH INTO EXISTING PAVEMENT
9. MATCH INTO EXISTING CURB AND GUTTER
10. REMOVE AND REPLACE EXISTING PAVEMENT, CURB AND SIDEWALK AS REQUIRED TO INSTALL PROPOSED UTILITIES
11. DENOTES PROPOSED BICYCLE PARKING
12. CAUTION! UTILITY CROSSING. VERIFY EXACT LOCATION AND ELEVATION PRIOR TO STARTING CONSTRUCTION. MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN SEWER AND WATERMAIN
13. DENOTES PROPOSED TRASH ENCLOSURE LOCATION.
14. DENOTES PROPOSED SITE LIGHTING (TYP). SEE ELECTRICAL PLANS
15. DENOTES PROPOSED PARKING COUNT (TYP)
16. DENOTES PROPOSED BARRIER CURB

HATCH LEGEND

- PROPOSED CONCRETE SIDEWALK
- PROPOSED REGULAR DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED DEPRESSED CURB
- PROPOSED TAPER CURB
- PROPOSED REVERSE CURB

SITE ZONING AND LOCATION TABLE

LEGAL DESCRIPTION:
GMX LA CROSSE LOT 3

PROPERTY LOCATION:	- 3800 WI-16 - LA CROSSE, WI
ZONING:	- C-2: COMMERCIAL
ZONING SETBACKS:	
BUILDING SETBACK:	- 6 FEET (SIDE YARD) - 10 FEET (ACCESS ROAD)

SITE CALCULATION TABLE

TOTAL PARKING LOT AREA	19,080 SF
PARKING LOT IMPERVIOUS AREA	16,453 SF
TOTAL PARKING LOT GREENSPACE AREA	2,627 SF
INTERIOR ISLAND GREENSPACE AREA	1,065 SF
TOTAL PARKING LOT GREENSPACE	13.8%
PARKING LOT INTERIOR ISLAND GREENSPACE	5.6%
PROPOSED REGULAR PARKING SPACES	47
PROPOSED HANDICAP PARKING	3
PROPOSED TOTAL PARKING	50

DIGGER'S HOTLINE CALL BEFORE YOU DIG 1-800-242-8511

IN ACCORDANCE WITH WISCONSIN STATUTE 182.0175, DAMAGE TO TRANSMISSION FACILITIES, EXCAVATOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE ADVANCE NOTICE TO THE DESIGNATED "ONE CALL SYSTEM" NOT LESS THAN THREE WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION REQUIRED TO PERFORM WORK CONTAINED ON THESE DRAWINGS, AND FURTHER, EXCAVATOR SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF THIS STATUTE RELATIVE TO EXCAVATOR'S WORK.

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FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
SITE PLAN

North

SCALE: 1" = 20'

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C1.10

BUILDING SHELL CONSTRUCTION SET

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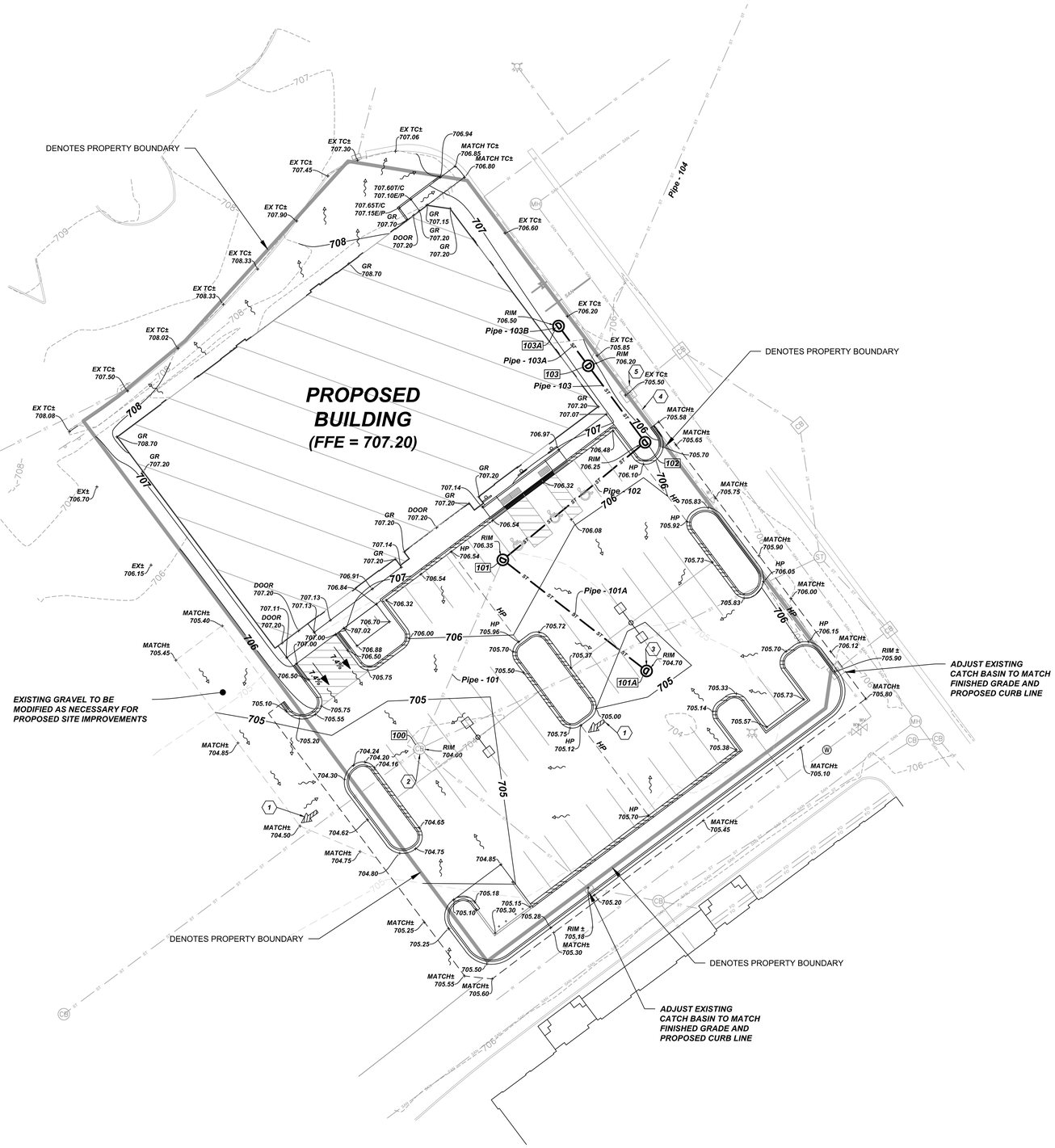

NOTES

1. DENOTES EMERGENCY OVERFLOW ROUTE
2. DENOTES EXISTING CATCH BASIN TO BE ADJUSTED
   EX RIM EL = 703.87
   PR RIM EL = 704.00
3. DENOTES PROPOSED CATCH BASIN WITH ADS UPFLOW FILTER FOR WATER QUALITY, SEE SHEET C5.01 FOR DETAILS.
4. CAUTION! EXISTING WATERMAIN. PROTECT DURING STORM SEWER CONSTRUCTION
5. CAUTION! CATCH BASIN. PROTECT DURING STORM SEWER CONSTRUCTION

Storm Structure Table

#	Structure Details
100	EXISTING CATCH BASIN RIM = 704.00 Pipe - 101 = 694.57
101	CATCH BASIN (5' DIA) W/ CLOSED LID RIM = 706.35 Pipe - 101A = 700.72 Pipe - 102 = 694.82 Pipe - 101 = 694.82
101A	CATCH BASIN W/ ADS UPFLOW FILTER RIM = 704.70 Pipe - 101A = 701.25
102	CATCH BASIN (6' DIA) W/ CLOSED LID RIM = 706.25 Pipe - 103 = 694.93 Pipe - 102 = 694.93
103	CATCH BASIN (5' DIA) W/ CLOSED LID RIM = 706.20 Pipe - 103A = 699.83 Pipe - 104 = 695.00 Pipe - 103 = 695.00
103A	CATCH BASIN (3' DIA) W/ CLOSED LID RIM = 706.50 Pipe - 103B = 700.00 Pipe - 103A = 700.00

Storm Pipe Table

Pipe Name	Size	Material	Length	Slope	Description
Pipe - 101	42	RCP	71	0.34%	EXISTING STORM SEWER
Pipe - 101A	12	PVC	63	0.85%	
Pipe - 102	42	RCP	64	0.18%	
Pipe - 103	42	RCP	33	0.20%	
Pipe - 103A	12	PVC	17	1.00%	
Pipe - 103B	12	PVC	2	1.00%	BUILDING CONNECTION
Pipe - 104	42	RCP	143	0.34%	EXISTING STORM SEWER

DIGGER'S HOTLINE — CALL BEFORE YOU DIG — 1-800-242-8511

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FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
GRADING PLAN

North

SCALE: 1" = 20'

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C1.20

BUILDING SHELL CONSTRUCTION SET

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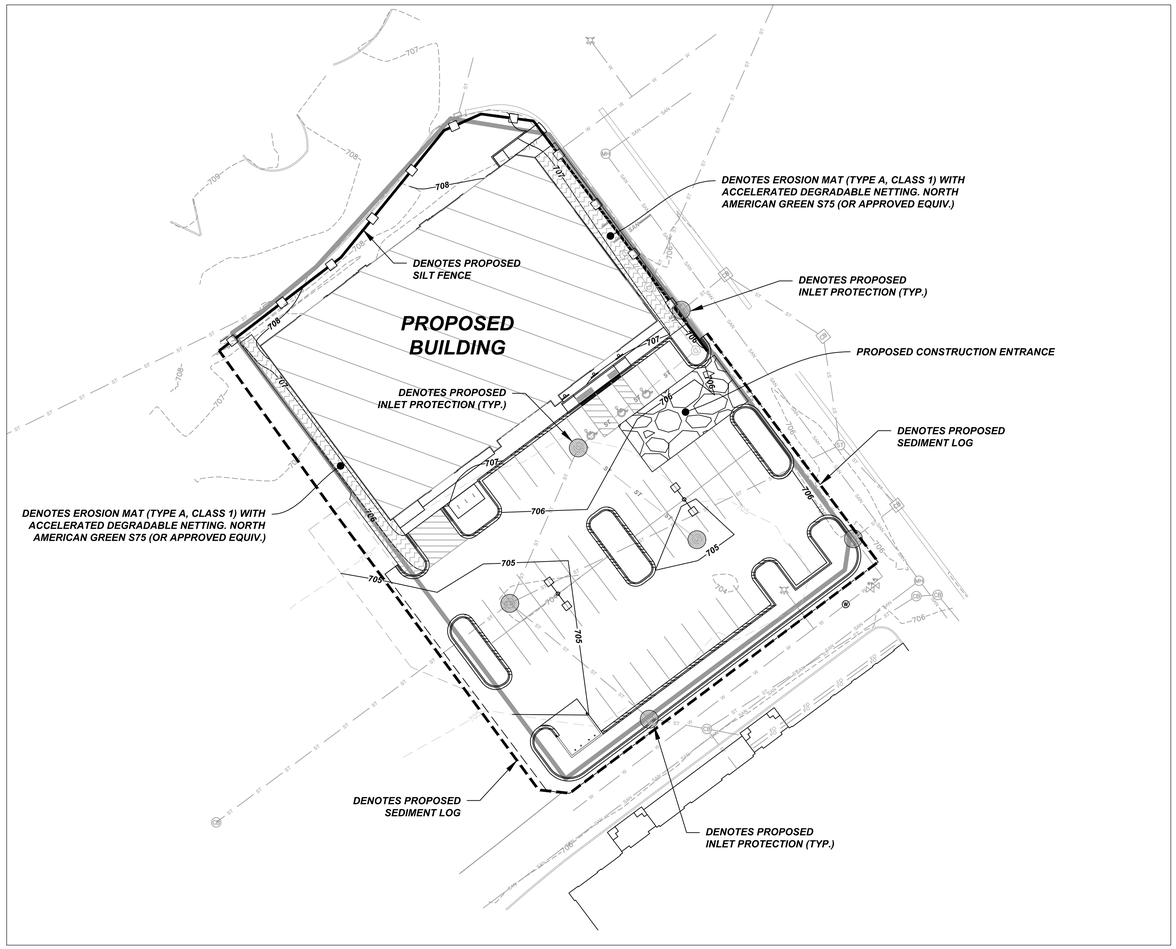
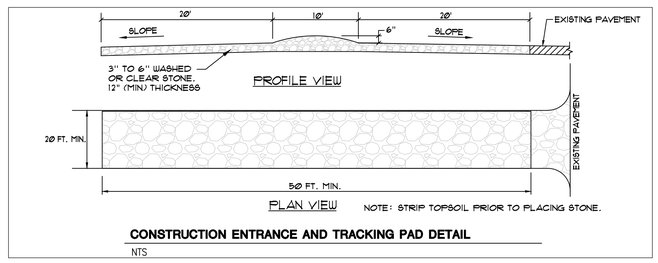


EROSION CONTROL NOTES AND PHASING

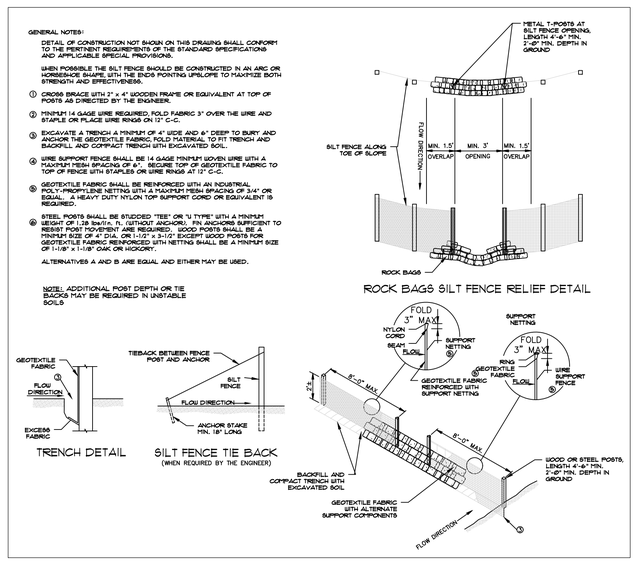
1. KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
2. SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE ENGINEER AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
3. CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
4. INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
5. WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
6. REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
7. INSTALL PERIMETER EROSION CONTROLS, (IF REQUIRED) AND TRACKOUT CONTROL PRACTICES PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD 1057 FOR TRACKOUT CONTROL AT CONSTRUCTION ENTRANCE(S) (IF REQUIRED).
8. INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060.
9. STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.
10. PERMITTING OF GROUNDWATER DEWATERING IS THE RESPONSIBILITY OF THE CONTRACTOR. GROUNDWATER DEWATERING IS SUBJECT TO A DNR WASTEWATER DISCHARGE PERMIT AND A DNR HIGH CAPACITY WELL APPROVAL IF CUMULATIVE PUMP CAPACITY IS 70 GPM OR MORE.
11. PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DE-WATERING #1061.
12. COMPLETE AND STABILIZE SEDIMENT BASINS/TRAPS OR WET PONDS PRIOR TO MASS LAND DISTURBANCE TO CONTROL RUNOFF DURING CONSTRUCTION. REMOVE SEDIMENT AS NEEDED TO MAINTAIN 3 FEET OF DEPTH TO THE OUTLET, AND PROPERLY DISPOSE OF SEDIMENT REMOVED DURING MAINTENANCE (REFER TO NR 528). CONSTRUCT AND MAINTAIN THE SEDIMENT BASIN PER WDNR TECHNICAL STANDARD SEDIMENT BASIN #1064 AND SEDIMENT TRAP # 1063.
13. INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
14. REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
15. INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS # 1071.
16. IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
17. IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER.
    - BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE
    - OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
18. STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
19. SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE WDNR/MUNCIPALITY. SEPARATE SWEPT MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.
20. CONTROL DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES # 1068.
21. PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
25. FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES 4:1 OR GREATER (OR AS SHOWN ON THE PLAN), PROVIDE CLASS I TYPE TYPE A (WITH ACCELERATED DEGRADABLE NETTING) EROSION CONTROL MATTING. SELECT EROSION MATTING FROM WDOT'S PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052.
22. FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS (OR AS SHOWN ON THE PLANS), PROVIDE NORTH AMERICAN GREEN SC150 (OR APPROVED EQUAL) EROSION CONTROL MATTING. INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
23. MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
24. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES (SUCH AS TEMPORARY SEDIMENT BASINS, DITCH CHECKS, EROSION CONTROL MATTING, SILT FENCING, FILTER SOCKS, WATTLES, SWALES, ETC.), OR AS DIRECTED BY WDNR/MUNICIPALITY

EROSION CONTROL LEGEND

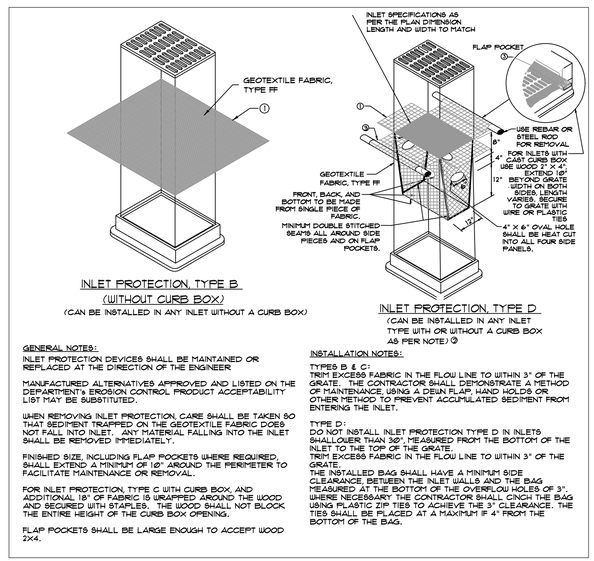
- SILT FILTER FENCE
- INLET SEDIMENT GUARD
- CONSTRUCTION ENTRANCE



CONSTRUCTION ENTRANCE AND TRACKING PAD DETAIL
NTS



SILT FENCE DETAIL
NTS



GENERAL NOTES:
INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT's EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 18" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

FOR INLET PROTECTION, TYPE C WITH CURB BOX, AND ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES:
TYPES B & C:
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A DEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D:
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG USING PLASTIC ZIP TIES TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM 9" 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
NTS

DIGGER'S HOTLINE CALL BEFORE YOU DIG 1-800-242-8511

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FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
EROSION CONTROL PLAN

North

SCALE: 1" = 30'

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C1.30

BUILDING SHELL CONSTRUCTION SET

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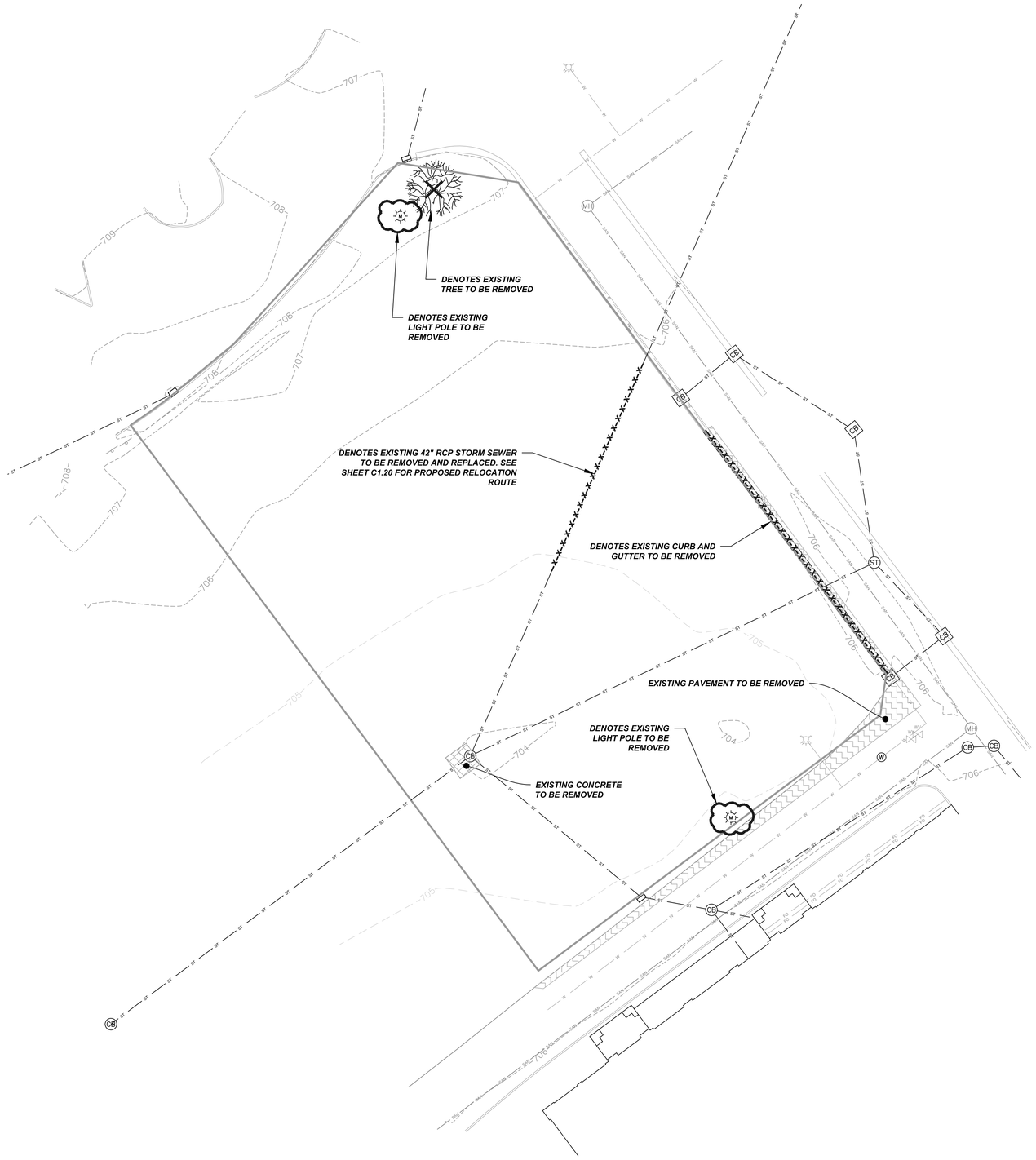

DEMOLITION LEGEND

- DENOTES PAVEMENT REMOVAL AREA
- DENOTES CONCRETE REMOVAL AREA
- DENOTES ITEM TO BE ABANDONED OR REMOVED
- DENOTES TREE TO BE REMOVED OR RELOCATED (AS NOTED) (FIELD MARK AND CONFIRM ALL TREE REMOVALS WITH OWNER PRIOR TO REMOVAL)
- DENOTES ITEM TO BE REMOVED OR DEMOLISHED

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La-Z-Boy

3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
DEMOLITION PLAN

North

SCALE: 1" = 20'

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
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SHEET NO.
C1.40

BUILDING SHELL CONSTRUCTION SET

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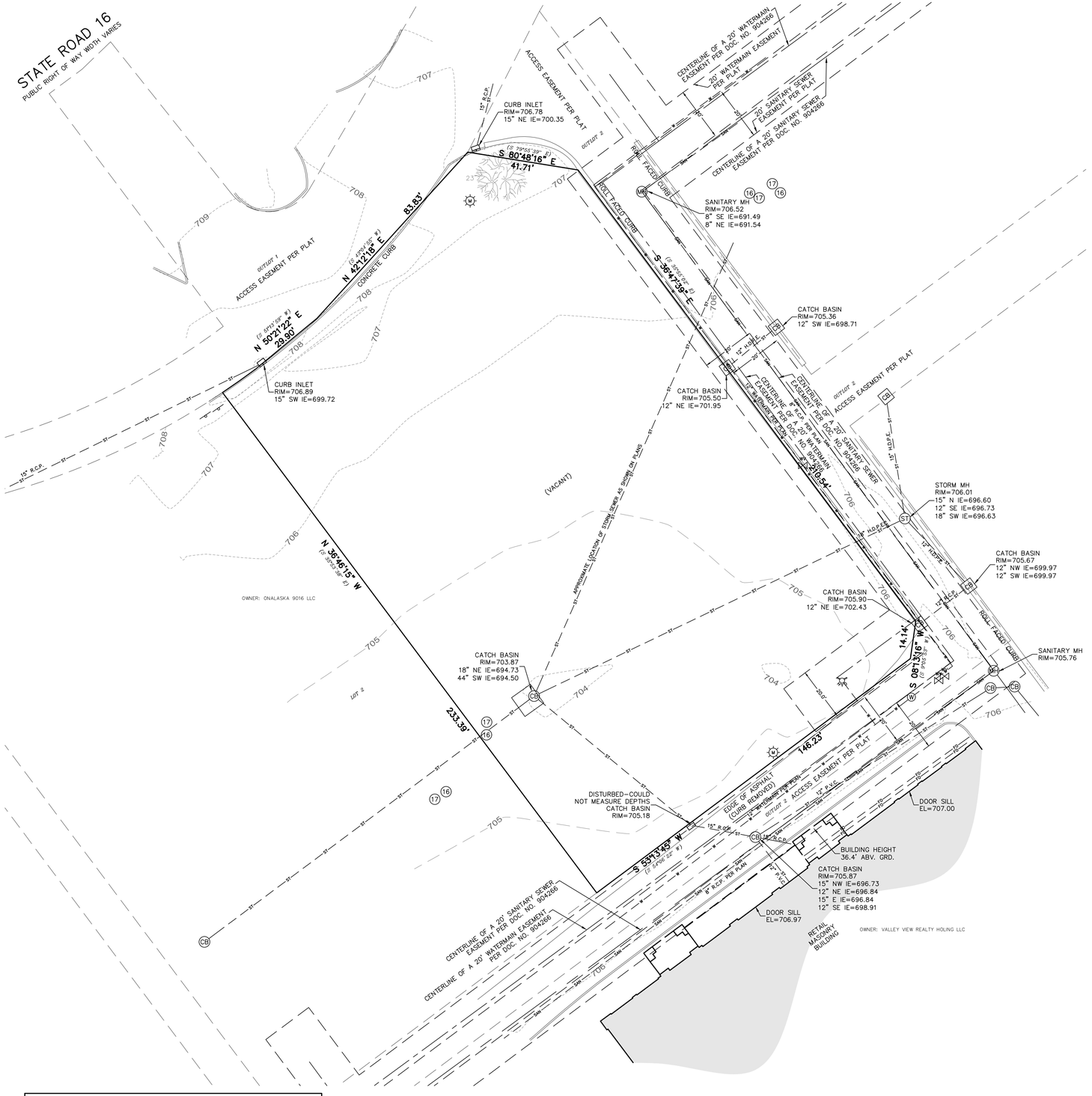


LEGEND

SAN	SANITARY SEWER	ELECTRIC TRANSFORMER	HYDRANT
ST	STORM SEWER	ELECTRIC METER	WATER VALVE
W	WATER MAIN	ELECTRIC BOX AT GRADE	GAS VALVE
G	BURIED GAS LINE	TELEPHONE BOX AT GRADE	MANHOLE
TEL	BURIED TELEPHONE LINE	TELEPHONE PEDESTAL	STORM MANHOLE
E	BURIED ELECTRIC LINE	TV PEDESTAL	CATCH BASIN
FO	BURIED FIBER OPTIC LINE	GAS METER	CURB INLET
//	OVERHEAD UTILITY LINES	AIR CONDITIONER	METAL LIGHT POLE
CATV	BURIED CABLE TELEVISION LINES	UTILITY POLE	CONCRETE LIGHT POLE
COMB	COMBINATION SEWER	WOOD SIGN	WOOD LIGHT POLE
	WOOD FENCE	METAL SIGN	MAIL BOX
	METAL FENCE	FLAG POLE	FIBER OPTIC MARKER
	EDGE OF TREES AND BRUSH	BOLLARD	GUY WIRE
994.32 DS	DOOR SILL ELEVATION	BOLLARD LIGHT	
	FIRE DEPARTMENT CONNECTION	YARD LIGHT	

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)

1 INCH = 20 FT.

TO; ICAP DEVELOPMENT LLC, A WISCONSIN LIMITED LIABILITY COMPANY, ONALASKA 9016, LLC, A DELAWARE LIMITED LIABILITY COMPANY & FIRST AMERICAN TITLE INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a)(b), 7(c), 16 AND 17 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JUNE 30, 2025.

JULY 10, 2025
DATE

MICHAEL J. BERRY, PLS
PROFESSIONAL LAND SURVEYOR S-2545

WISCONSIN MICHAEL J. BERRY S-2545 BROOKFIELD, WI LAND SURVEYOR

ALTA/NSPS LAND TITLE SURVEY

FOR

LA-Z-BOY
3800 WI-16
LA CROSSE, WI

DRAWN BY:	DHS	DATE:	JULY 10, 2025
CHECKED BY:	MJB	DRAWING NO.	AL-0
CSE JOB NO.:	25-080	SHEET	1 OF 1

CSE
CAPITOL SURVEY ENTERPRISES
2015 LA CHANDELLE CT.
BROOKFIELD, WI 53045
PH: (262) 786-6600
FAX: (414) 786-6608
WWW.CAPITOLSURVEY.COM

NORTH

LEGAL DESCRIPTION

PARCEL 1:

LOT 3 TOGETHER WITH AN 10.82% FEE INTEREST IN OUTLOT 1 AND AN 10.82% FEE INTEREST IN OUTLOT 2 OF GMX LA CROSSE SUBDIVISION PLAT RECORDED APRIL 09, 2024 IN VOLUME CAB OF SUBDIVISION PLATS, PAGE 247A AS
DOCUMENT NO. 1818893, BEING PART OF THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, AND PART OF GOVERNMENT LOT 2 OF SECTION 15, AND PART OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 15, ALL BEING IN TOWNSHIP 16 NORTH, RANGE 7 WEST, CITY OF LA CROSSE, LA CROSSE COUNTY, WISCONSIN.

PARCEL 2:

EASEMENT RIGHTS AND PRIVILEGES AS CONTAINED IN CONSTRUCTION, OPERATING AND RECIPROCAL EASEMENT AGREEMENT RECORDED ON OCTOBER 23, 1979 IN VOLUME 636, PAGE 261, AS DOCUMENT NO. 901840.

AS AMENDED BY FIRST AMENDMENT TO CONSTRUCTION, OPERATING AND RECIPROCAL EASEMENT AGREEMENT RECORDED OCTOBER 22, 1980, IN VOLUME 652, PAGE 534, AS DOCUMENT NO. 912094.

AS ASSIGNED BY ASSIGNMENT OF OPERATING AGREEMENT RECORDED FEBRUARY 2, 1981 AS DOCUMENT NO. 914931.

AS FURTHER ASSIGNED BY ASSIGNMENT AND ASSUMPTION AGREEMENT RECORDED AUGUST 19, 2004 AS DOCUMENT
NO. 1401940.

AS FURTHER AMENDED BY SECOND AMENDMENT TO CONSTRUCTION, OPERATING AND RECIPROCAL EASEMENT AGREEMENT RECORDED FEBRUARY 23, 2010 AS DOCUMENT NO. 1544962.

AS FURTHER ASSIGNED BY ASSIGNMENT AND ASSUMPTION AGREEMENT RECORDED APRIL 19, 2017 AS DOCUMENT NO.
1692059.

SCHEDULE B, PART II–EXCEPTION

12 SUPPLEMENTAL EASEMENT AGREEMENT:
DATED: AUGUST 17, 1979
PARTIES: DAIRYLAND POWER COOPERATIVE, A WISCONSIN COOPERATIVE ASSOCIATION AND DAYTON DEVELOPMENT COMPANY, A MINNESOTA CORPORATION
RECORDED: AUGUST 23, 1979 IN VOLUME 633, PAGE 44
INSTRUMENT NO.: 899645
AFFECTS PARCEL BY DESCRIPTION – GENERAL IN NATURE THEREFORE NOTHING PLOTTED

13 COVENANTS, CONDITIONS AND RESTRICTIONS AS SET FORTH IN RELEASE AND CONVEYANCE OF ACCESS RIGHTS RECORDED ON OCTOBER 16, 1979 IN VOLUME 635, PAGE 857 AS DOCUMENT NO. 901564, OF OFFICIAL RECORDS, BUT DELETING ANY COVENANT, CONDITION OR RESTRICTION INDICATING A PREFERENCE, LIMITATION OR DISCRIMINATION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN TO THE EXTENT SUCH COVENANTS, CONDITIONS OR RESTRICTIONS VIOLATE 42 USC 3604(C).

ASSIGNMENT (MISCELLANEOUS) RECORDED FEBRUARY 02, 1981 IN VOLUME 657, PAGE 270 AS DOCUMENT NO. 914934.
DOES NOT DIRECTLY AFFECT PARCEL – NOTHING TO PLOT

14 CONSTRUCTION, OPERATING AND RECIPROCAL EASEMENT AGREEMENT RECORDED ON OCTOBER 23, 1979 IN VOLUME 636, PAGE 261, AS DOCUMENT NO. 901840.

MODIFICATION AND/OR AMENDMENT BY INSTRUMENT: FIRST AMENDMENT TO A CONSTRUCTION, OPERATING AND RECIPROCAL EASEMENT AGREEMENT RECORDING INFORMATION: OCTOBER 22, 1980 IN VOLUME 652, PAGE 534 AS DOCUMENT NO. 912094

ASSIGNMENT OF OPERATING AGREEMENT RECORDING FEBRUARY 02, 1981 IN VOLUME 657, PAGE 265 AS DOCUMENT NO. 914931.

ASSIGNMENT AND ASSUMPTION AGREEMENT (REAL ESTATE) RECORDED AUGUST 19, 2004 AS DOCUMENT NO. 1401940.

MODIFICATION AND/OR AMENDMENT BY INSTRUMENT: SECOND AMENDMENT TO CONSTRUCTION, OPERATING AND RECIPROCAL EASEMENT AGREEMENT
RECORDING INFORMATION: FEBRUARY 23, 2010 AS DOCUMENT NO. 1544962

ASSIGNMENT AND ASSUMPTION AGREEMENT RECORDED APRIL 19, 2017 AS DOCUMENT NO. 1692059.
AFFECTS PARCEL BY LOCATION–GENERAL IN NATURE THEREFORE NOTHING PLOTTED

15 ROAD MAINTENANCE COVENANT AND AGREEMENT:
DATED: DECEMBER 06, 1979
PARTIES: DOOLITTLE–BARDEN, INC., A WISCONSIN CORPORATION AND DAYTON DEVELOPMENT COMPANY, A MINNESOTA CORPORATION
RECORDED: JANUARY 22, 1980 IN VOLUME 640, PAGE 181
INSTRUMENT NO.: 904266

ASSIGNMENT (MISCELLANEOUS) RECORDED FEBRUARY 02, 1981 IN VOLUME 657, PAGE 270 AS DOCUMENT NO. 914934.
NOT SURVEY RELATED THEREFORE NOTHING PLOTTED

(16) AGREEMENT:
DATED: JULY 29, 1980
PARTIES: DAYTON DEVELOPMENT COMPANY, A MINNESOTA CORPORATION; DAYTON HUDSON CORPORATION, A MINNESOTA CORPORATION; SEARS, ROEBUCK AND CO. A NEW YORK CORPORATION; RYAN CONSTRUCTION COMPANY OF MINNESOTA , INC., A MINNESOTA CORPORATION; AND G. R. HERBERGER'S INC., A DELAWARE CORPORATION AND THE CITY OF LA CROSSE, A WISCONSIN MUNICIPAL CORPORATION
RECORDED: JULY 29, 1980 AUGUST 08, 1980 IN VOLUME 648, PAGE 220
INSTRUMENT NO.: 909431

ASSIGNMENT (MISCELLANEOUS) RECORDED FEBRUARY 02, 1981 IN VOLUME 657, PAGE 270 AS DOCUMENT NO. 914934.
AFFECTS PARCEL AS PLOTTED HEREON

(17) UTILITY EASEMENT TO THE CITY OF LA CROSSE, A WISCONSIN MUNICIPAL CORPORATION, DATED JULY 29, 1980, RECORDED/FILED AUGUST 08, 1980 IN VOLUME 648, PAGE 233 AS DOCUMENT NO. 909432. DECLARATION OF RESTRICTIONS AND GRANT OF EASEMENTS RECORDED ON JULY 18, 2024 AS DOCUMENT NO. 1822493.
AFFECTS PARCEL AS PLOTTED HEREON – STORM SEWER EASEMENT DOES NOT AFFECT PARCEL

18 DECLARATION OF RESTRICTIONS AND GRANT OF EASEMENTS RECORDED ON JULY 18, 2024 AS DOCUMENT NO. 1822493.
AFFECTS PARCEL BY DESCRIPTION – GENERAL IN NATURE THEREFORE NOTHING PLOTTED

MISCELLANEOUS NOTES

1. THIS SURVEY WAS MADE IN ACCORDANCE WITH LAWS AND/OR MINIMUM STANDARDS OF THE STATE OF WISCONSIN.

2. THE PROPERTY DESCRIBED HEREON (THE "PROPERTY") IS THE SAME AS THE PROPERTY DESCRIBED IN FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NO. NCS–1262541–MKE WITH A COMMITMENT DATE: MAY 14, 2025 AT 7:30 AM AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY.

3. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, ON INFORMATION FURNISHED BY THE UTILITY COMPANIES, DIGGERS HOTLINE AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.

4. NO ZONING INFORMATION PROVIDED BY INSURER AT THE TIME OF SURVEY.

5. THE ABOVE DESCRIBED PROPERTY AS SHOWN HEREON CONTAINS:
37,221 SQUARE FEET OR 0.8545 ACRES.

6. THE TOTAL NUMBER OF STRIPED PARKING SPACES ON THE PROPERTY IS 0.

7. SUBJECT PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN PER INFORMATION FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), ON FLOOD INSURANCE RATE MAP NO. 55063C0252D, WITH A DATE OF IDENTIFICATION OF JANUARY 16, 2012, IN COMMUNITY NO. 555562, CITY OF LA CROSSE, WHICH IS THE COMMUNITY IN WHICH THE SUBJECT PROPERTY IS SITUATED.

8. THERE IS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS ON THE PROPERTY AT TIME OF SURVEY.

9. THERE IS NO INFORMATION AVAILABLE FROM THE CITY OF LA CROSSE REGARDING PROPOSED CHANGES IN STREET RIGHT OF WAY LINES ADJOINING THE PROPERTY AT THE TIME OF SURVEY.

10. ALL BEARINGS ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, LA CROSSE COUNTY.

11. ELEVATIONS ARE AT THE NORTH AMERICAN VERTICAL DATUM OF 1088 (NAVD88).

12. PROJECT BENCHMARK IS THE BERNSTEN NAIL AT THE NORTH CORNER OF SECTION 15. ELEVATION = 714.10 PUBLISHED, 714.21 MEASURED.

in. studio architecture
833 E. Michigan St. | Suite 540 | Milwaukee, WI 53202
ph. 414.278.6804 | www.instudioarch.com

PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

North
SCALE: 1" = 80'

SHEET TITLE:
PROJECT LOCATION AND GENERAL NOTES

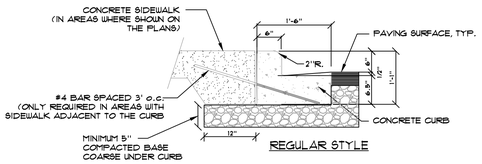
STORE NAME:
LA-Z-BOY - La CROSSE

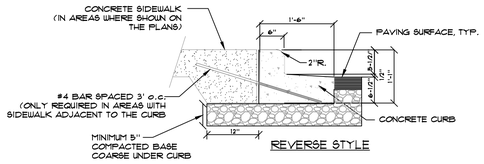
HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C1.05

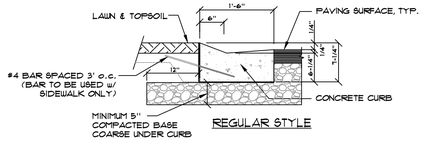
BUILDING SHELL CONSTRUCTION SET

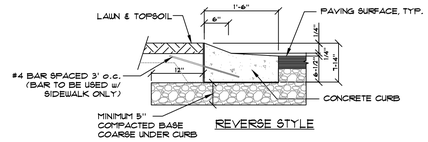
© La-Z-Boy © in. studio architecture, llc.





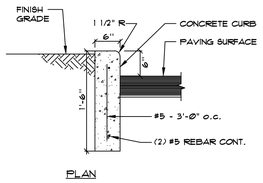
01 VERTICAL FACE CURB - 18" WIDE
NTS





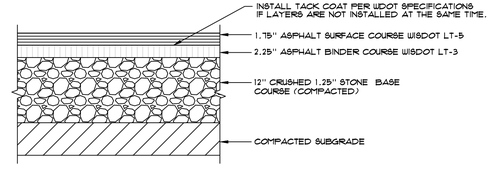
NOTE:
- REVERSE STYLE CURB LOCATIONS ARE NOTED ON THE PLANS.

02 DEPRESSED CURB - 18" WIDE
NTS

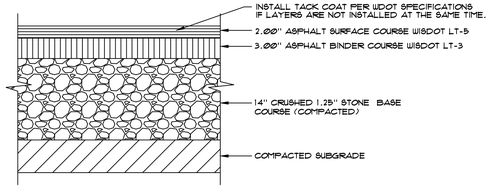


PLAN

03 18" BARRIER STYLE CURB
NTS

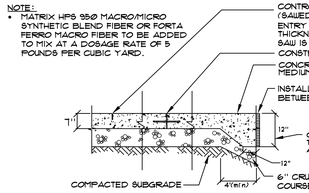


04 REGULAR DUTY ASPHALT PAVEMENT SECTION
NTS



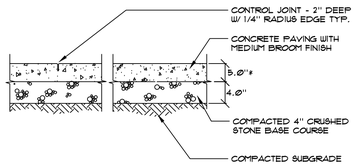
05 HEAVY DUTY ASPHALT PAVEMENT SECTION
NTS

NOTE:
- MATRIX MPS 950 MACRO/MICRO SYNTHETIC BLEND FIBER OR FORTA FERRO MACRO FIBER TO BE ADDED TO MIX AT A DOSAGE RATE OF 5 POUNDS PER CUBIC YARD.



NOTES:
- TIE BARS SHALL BE INSTALLED AT ALL AREAS WHERE CONCRETE PAVEMENT ABUTS CURB AND GUTTER AND CONSIST OF NO. 4 EPOXY COATED REINFORCING BARS 24 INCHES IN LENGTH AND 48 INCHES ON CENTER.
- CONTROL/ CONTRACTION/ CONSTRUCTION JOINTS SHALL BE SPACED AT 12' MAXIMUM AND CONSTRUCTED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI-330R) RECOMMENDATIONS.
- EXPANSION JOINTS SHALL BE PROVIDED WHERE PAVEMENT ABUTS FIXED OBJECTS, MEETING ACI-330R STANDARDS.

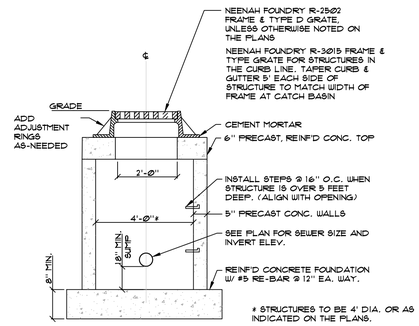
06 CONCRETE PAVEMENT SECTION
NTS



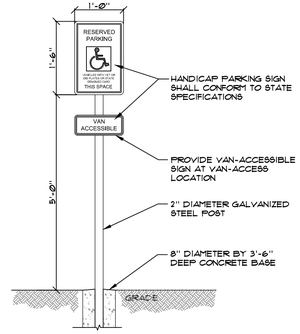
* NOTE:
SIDEWALK SHALL BE 7" AT DRIVEWAY SECTIONS

NOTES:
- CONTROL JOINT SPACING SHALL BE A MAXIMUM OF 5' AND CONSTRUCTED IN CONFORMANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) RECOMMENDATIONS.
- EXPANSION JOINTS SHOULD BE PROVIDED WHERE PAVEMENT ABUTS FIXED OBJECTS.
- MATRIX BI BLEND MICRO FIBER TO BE ADDED AT A RATE OF 1.5 POUNDS PER CUBIC YARD.

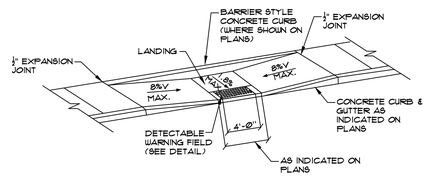
07 CONCRETE SIDEWALK SECTION
NTS



08 CATCH BASIN DETAIL
NTS



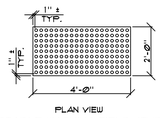
09 HANDICAP SIGN DETAIL
NTS



10 VERTICAL FACE CURB - 18" WIDE
NTS

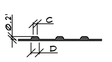
	MIN.	MAX.
A	1.6"	2.4"
B	Ø.65"	1.5"
C	#	#
D	Ø.9"	1.4"

THE C DIMENSION IS 50% TO 65% IF THE D DIMENSION

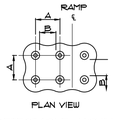


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)**



ELEVATION VIEW

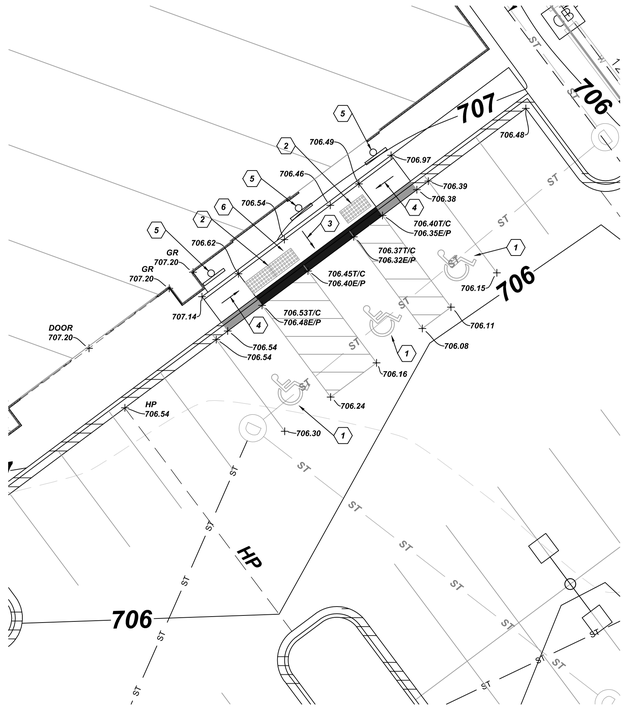


PLAN VIEW

TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL

**DETECTABLE WARNING FIELDS TO BE NEENAH FOUNDRY DETECTABLE WARNING FIELDS (OR APPROVED EQUAL), UNPAINTED NATURAL COLOR AND FIELD WEATHERED PRIOR TO INSTALLATION (VERIFY COLOR W/ OWNER PRIOR TO INSTALLATION)

11 TRUNCATED DOMES DETAIL
NTS



12 ADA PARKING STALL
SCALE: 1" = 10'

#	NOTES
1.	DENOTES PROPOSED ADA PARKING. 1.8% MAX SLOPE IN ANY DIRECTION (TYP)
2.	DENOTES PROPOSED TRUNCATED DOMES (TYP)
3.	DENOTES PROPOSED 1.8% MAX SLOPE
4.	DENOTES PROPOSED RAMP. 8% MAX SLOPE
5.	DENOTES PROPOSED HANDICAP SIGN
6.	DENOTES HANDICAP RAMP - TYPE 2

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ph. 414.278.6804 | www.instudioarch.com

PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

BUILDING SHELL CONSTRUCTION SET

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
CONSTRUCTION DETAILS

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C5.00

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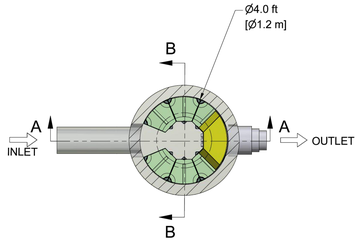
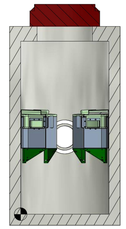
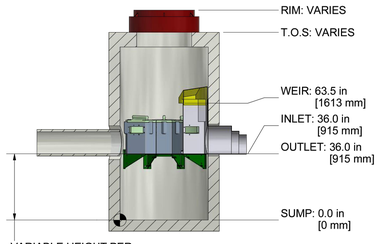




SECTION B-B



SECTION A-A

CAPACITIES:

- Minimum performance: 80% removal. Washington DOE/NJCAT verified at the peak treatment flow.
- Peak treatment flow:
  .033 CFS (0.9 LPS) (15 GPM) per module (Ribbons)
  .022 CFS (0.6 LPS) (10 GPM) per module (Long Ribbons)
  .056 CFS (1.6 LPS) (25 GPM) per module (CPZ)
- Maximum number of ribbon modules per outlet module: 36
- Maximum number of CPZ modules per outlet module: 18 (contract Hydro if more are required)

ADDITIONAL DESIGN INFORMATION:

- Normal operating W.S.E. is 26-30" (660-762mm) above the outlet invert
- Media Types Available: Ribbons, CPZ

PROJECTION

COMMENTS:
1. STRUCTURE WALL AND SLAB THICKNESSES ARE NOT TO SCALE
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING THE STRUCTURE
3. NOT FOR CONSTURCION CONTACT HYDRO FOR SITE SPECIFIC DRAWING
4. NOT ALL SIZES AVAILABLE IN ALL AREAS
5. SUMP DEPTH AVAILABLE IN 24" (610mm) CPZ, RIBBONS AND 36" (914mm) LONG RIBBONS DEPTH

REVISION HISTORY

REV	BY	DESCRIPTION	DATE
-	ER	FIRST RELEASE	6/17/2019

DATE: 6/17/2019 SCALE: NTS

DRAWN BY: ER | CHECKED BY: | APPROVED BY

Title
UP-FLO FILTER
4ft Manhole

6 MODULES MAX

Sizing Tool

Hydro International

94 Hutchins Drive
Portland, ME 04102
Tel: +1 (207) 756-6200
Fax: +1 (207) 756-6212
hydro-int.com

ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY, HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY LOSS, DAMAGE, EXPENSE OR LIABILITY OF ANY KIND WHICH RESULTS FROM ITEMS DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL HAVE A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT, (OR ANY PART THEREOF), IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED, IN WHOLE OR IN PART. THIS DRAWING MUST BE RETURNED UPON REQUEST BY HYDRO INTERNATIONAL.
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DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
FRACTIONS ± 1/16
DECIMALS:
X.X ± .06
X.XX ± .03
X.XXX ± .015
ANGLES: ± .5°

WEIGHT: N/A | MATERIAL:

NEXT ASSEMBLY: 4 MH-1

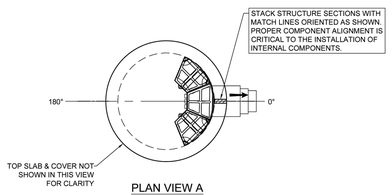
DRAWING NO.: 4 MH-UFF-1

SHEET SIZE: B | SHEET: 1 OF 1 | Rev: -

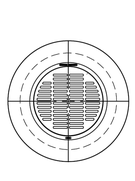
01 ADS FILTER DETAIL
NTS

STRUCTURE PROPERTIES	
STRUCTURE ID	101A
MODEL SIZE	UFF4 CPZ
TREATMENT FLOW RATE (cfs)	0.112
PEAK FLOW RATE (cfs)	3.5
SEDIMENT STORAGE (cu. yd.)	0.0

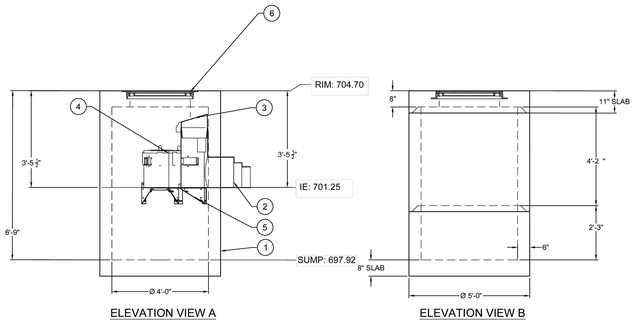
NOTES:
1. LIVE LOADING CRITERIA:
   A. AASHTO HS-20-44 (WITH IMPACT)
   B. LATERAL LIVE LOAD SURCHARGE: 80 PSF (TO 8.00 FT DEPTH)
   C. NO LATERAL SURCHARGE FROM ANY ADJACENT BUILDINGS, WALLS, FOUNDATIONS, OR ANY ADDITIONAL SITE ELEMENTS.
2. SOIL LOADING CRITERIA:
   A. SOIL COVER DEPTH: 0.50 FT (MIN.) - 5.00 FT (MAX.)
   B. SOIL UNIT WEIGHT: 120 PCF
   C. ASSUMED WATER TABLE ELEVATION: BELOW BOTTOM OF PRECAST
   D. REQUIRED ALLOWABLE BEARING PRESSURE: 2,500 PSF
   E. EQUIVALENT LATERAL FLUID PRESSURE: 45 PCF (ACTIVE)
   F. SEISMIC LATERAL EARTH PRESSURES: NOT APPLICABLE
3. CONCRETE (NORMALWEIGHT):
   A. MIN. 28-DAY COMPRESSIVE STRENGTH: 6,000 PSI
   B. CEMENT: ASTM C150
4. STEEL REINFORCEMENT: ASTM A615 / A706 (GRADE 60)
5. REFERENCE STANDARDS: ASTM C890& C913, ACI 318-14
6. THIS STRUCTURE IS DESIGNED TO THE PARAMETERS NOTED HEREIN. ENGINEER-OF-RECORD SHALL VERIFY THAT NOTED PARAMETERS MEET OR EXCEED PROJECT REQUIREMENTS. IF DESIGN PARAMETERS ARE INCORRECT, REVIEWING ENGINEER/AUTHORITY SHALL NOTIFY OLDCASTLE INFRASTRUCTURE UPON REVIEW OF THIS SUBMITTAL.
7. OVERSIZED HOLES TO ACCOMMODATE SPECIFIC PIPE TYPE MUST BE CONCENTRIC TO PIPE ID. AFTER PIPES ARE INSTALLED, ALL ANNULAR SPACES SHALL BE FILLED WITH A MINIMUM OF 3,000 PSI CONCRETE FOR FULL THICKNESS OF PRECAST WALLS. PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE.
8. CONTRACTOR RESPONSIBLE TO VERIFY ALL SIZES, LOCATIONS, AND ELEVATIONS OF OPENINGS.
9. CONTRACTOR RESPONSIBLE TO ENSURE ADEQUATE BEARING SURFACE IS PROVIDED (I.E. COMPACTED AND LEVEL PER PROJECT SPECIFICATIONS).
10. SECTION HEIGHTS, SLAB/WALL THICKNESSES, AND KEYWAYS ARE SUBJECT TO CHANGE AS REQUIRED FOR SITE REQUIREMENTS AND/OR DUE TO PRODUCT AVAILABILITY AND PRODUCTION FACILITY CONSTRAINTS.
11. MAXIMUM PICK WEIGHTS:
   A. TOP: #### LBS
   B. BASE: #### LBS*
      (* COMBINED WEIGHT OF BASE INCLUDES PRODUCT INTERNALS.)
12. MINIMUM PERFORMANCE: 80% REMOVAL NJDEP - NJDEP BLEND; NJCAT, SIL-CO-SIL 106 (d50 = 22 MICRONS) AT THE PEAK TREATMENT FLOW.
13. NORMAL OPERATING W.S.E. IS 2.46' ABOVE THE OUTLET INVERT AT THE PEAK TREATMENT FLOW OF .056 CFS (25 GPM) PER MODULE. FOR A GIVEN FLOW THE HEAD REQUIREMENT CAN BE REDUCED BY ADDING ADDITIONAL FILTERS.
14. OUTLET PIPE STUB SIZE INFORMATION
   A. OUTSIDE DIAMETER: 10.5", 12.5" OR 15.3" OD
   B. CONCRETE PENETRATION: PIPE BOOT (BY OC)
   C. HOOK-UP: FERNCO-TYPE COUPLING (BY GC)
   D. CONTRACTOR TO TRIM OUTLET MODULE TO FIT CONNECTON TYPE.



PLAN VIEW A



PLAN VIEW B
(CASTING LOCATION)



ELEVATION VIEW A

ELEVATION VIEW B
(CONCRETE DIMENSIONS)

BILL OF MATERIALS						
ITEM	DESCRIPTION	BY	INSTALL	QTY	UNIT	SIZE & TYPE
1	4FT PRECAST MANHOLE	OI	GC	1	EA	
2	OUTLET MODULE	OI	OI	1	EA	
3	BYPASS HOOD	OI	OI	1	EA	
4	MODULE BODY AND LID	OI	OI	2	EA	
5	SUPPORT FRAME	OI	OI	3	EA	
6	FRAME & COVER	OI	GC	1	EA	30"Ø/ NF-5901 360

W: LA-Z-BOY VALLEY VIEW MALL DEVELOPMENT
LA CROSSE, WI

-	-	-	DATE:	08/27/2025
-	-	-	PROJECT #:	25-1416949
-	-	-	SALES ORDER:	-

REV	DESCRIPTION	DATE

UP-FLO FILTER ®
UFF4 CPZ
SYSTEM ID: 101A

CUSTOMER: ADS

SUBMITTAL DRAWING

DRAWN: MG
CHECKED: -
MFG: 509

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1 OF 1

02 ADS FILTER DETAIL
NTS

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PROJECT NO. 25.107 | DRAWN BY ISA | ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
CONSTRUCTION DETAILS

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C5.01

BUILDING SHELL CONSTRUCTION SET

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GENERAL REQUIREMENTS

1. Contractor shall be solely responsible for obtaining all permits necessary to complete the work. Contractor shall pay all fees associated with obtaining permits.

2. Completely coordinate with work of all other trades.

3. Although such work is not specifically called out on drawing, the contractor shall furnish and install all miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation

2. Drawings are diagrammatic and indicate general arrangement of site features, dimensions, utility tags are provided as a courtesy. All lengths and dimensions shall be verified by Contractor in advance of bidding, otherwise, the more expensive option shall be deemed to be included.

3. Field verify locations and arrangement of all existing site features.

4. If any errors or omissions appear in Drawings, Specifications, or other documents, bidding Contractor shall notify Engineer no later than ten (10) days prior to submitting bid. Should conflict occur in or between drawings and specifications, bidding contractor is deemed to have estimated more expensive way of doing work, unless he has asked for and obtained written decision (addendum) before submission of bid as to which method or materials will be required.

5. Installation of all systems and materials is subject to clarification as indicated in reviewed shop drawings and field coordination drawings.

6. Perform all work and install materials and equipment in full accordance with the latest applicable rules, regulations, requirements, and specifications of the following:
   - State and Federal Laws
   - Local laws, codes and ordinances
   - American Society for Testing and Materials (ASTM)
   - American Water Works Association (AWWA)
   - Federal Highway Administration (FHA)
   - Environmental Protection Agency (EPA)
   - Wisconsin Department of Safety and Professional Services (SPS):
   - Chapter NR 141 - Monitoring Well Construction
   - Chapter NR 812 - Well Construction and Pump Installation
   - Wisconsin Department of Natural Resources Technical Standards for Constructions Site, Erosion & Sediment Control
   - Conflicts, if any, which may exist between the above items, the more restrictive shall govern.

7. **SUBMITTALS**
   A. The A/E's review of shop drawings or samples shall not relieve the Contractor of responsibility for any deviation from the contract documents. The Contractor shall include with the shop drawings an index sheet detailing all deviations from the contract documents, and will be held responsible for all deviations unless he has received written approval from the A/E for the specific deviation, separate from general shop drawing approval. The A/E's review shall not relieve the contractor from responsibility for errors or omissions in the shop drawings or samples.

   B. Shop Drawings:
      a. The Contractor shall review the shop drawings and stamp with his approval prior to submitting shop drawings to A/E for review.
      b. Shop drawings shall be submitted electronically in one PDF format file for each specification section. File name shall contain specification number and product name. Each shop drawing shall contain the following:
      a. Cover Sheet: The submittals shall contain a cover sheet, which shall include the following information.
         1) Submittal Date
         2) Specification Section
         3) Manufacturer's Representative (Contact Name, address, and telephone number)
         4) Project Name, Project City, Project State, and Project Address.
      b. Product Data: Manufacturer's product data sheets and description of all system components. These data sheets shall be highlighted or suitably marked, so that included items and options are indicated. On data sheets that include multiple products, the products that are not used shall be crossed out.

8. Cause as little interference or interruption of existing utilities and services as possible.

9. Schedule work which will cause interference or interruption in advance with Owner, Architect, authorities having jurisdiction and all affected trades.

10. Examine Contract Documents to determine how other work will affect execution of civil work.

11. Determine and verify locations of all existing utilities on or near site.

12. Make arrangements for and pay for necessary permits, licenses, and inspections.

13. Keep a complete set of all civil drawings in job site office for showing actual locations of utilities and other features encountered, modifications to proposed grades and site features, and other deviations from the original design.
   - Use this set of drawings for no other purpose.
   - Where any locations of utilities and other features encountered, modifications to proposed grades and site features, and other deviations from the original design are installed differently from that shown, indicate differences clearly and neatly using ink or indelible pencil.
   - At project completion, submit record set of drawings to owner and engineer.

WATER UTILITY DISTRIBUTION PIPING

1. Submittals
   A. Provide manufactureres product information (cut sheets) and O&M information for watermain materials as indicated in Civil General Requirements, including:
      - Pipe
      - Fittings
      - Valves
      - Hydrants
      - Joint Restraint Materials
      - Tracer Wire
   B. Provide reports that document pressure and continuity testing procedures and results
   C. Provide reports that document safe sample collection procedures and results.

2. Contractor shall be solely responsible for obtaining all permits necessary to complete the work. Contractor shall pay all fees associated with obtaining permits.

3. Unless otherwise shown on the plans provide valves on "dead end" mains that will allow dry connection to the watermain system. Terminate "dead end" mains with full length of pipe beyond the valve, and a ell end will restrained plug.

4. Ductile iron watermain shall conform to the requirements of ANSI/AWWA C151/A21.51 and ANSI/AWWA C104/A21.4.

5. Resilient seated wedge gate valve shall conform to the requirements of AWWA C509 and C515. Body, bonnet and gate shall be constructed of ductile iron. Bolts shall be stainless steel.

6. Rubber-seated butterfly valve shall conform to the requirements of AWWA C504, for Class 150B. Body and disc shall be constructed of ductile iron. Bolts shall be stainless steel. Disc Shall be lens shaped.

7. Resilient seated wedge gate tapping valve having 100% port shall conform to the requirements of AWWA C509 and C515. Body, bonnet and gate shall be constructed of ductile iron. Bolts shall be stainless steel.

8. Maintain clearances between watermains and existing or proposed sewer lines as follows:
   8.1. 8' horizontal separation (measured center to center) between watermains and existing or proposed sanitary or storm sewers.
   8.2. 12" vertical separation (measured from outsides of pipes) where watermains cross over sanitary or storm sewers.
   8.3. 18" vertical separation (measured from outsides of pipes) where watermains cross under sanitary or storm sewers.

9. Install watermain at locations and depths shown on the plans. Install locator tape per manufacturer's recommendations.

10. Tracer wire shall be a minimum of 10 gauge, insulated, single-conductor copper wire or equivalent and installed per manufacturer's recommendations.

11. Provided a minimum of 6' of cover over watermain, unless otherwise shown on the drawings or directed by the construction representative. For watermains with less than 6' of cover, provide insulation as shown on the drawings, or as required by Wisconsin Department of Safety and Professional Services Administrative Code SPS 382.

12. Install fittings, valves and hydrants at locations shown on the drawings.

13. Pressure test all watermain and copper water services.

14. Conduct continuity test on all ductile iron watermain and copper water services.

STORM DRAINAGE UTILITIES

1. Contractor shall be solely responsible for obtaining all permits necessary to complete the work. Contractor shall pay all fees associated with obtaining permits.

2. Conform all materials to the size and type shown on the plans or as called for in the specifications and to applicable Laws, Codes, and Ordinances.

3. Submittals
   A. Provide manufacturer's product information (cut sheets), shop drawings, and O&M information as indicated in Civil General Requirements for storm sewer materials including:
      - Pipe
      - Fittings
      - Structures
      - Outfalls
      - Castings
   B. Provide reports documenting any required testing

4. Provide the size, type and class/schedule of pipe as indicated on the drawings.

5. Use only pipe supplied from the same manufacturer, and of the same type, unless otherwise specified or approved in advance by the Engineer.

6. When applicable, only pipe, joints, material and installation approved by Wisconsin Department of Natural Resources and/or the Wisconsin Department of Safety and Professional Services (SPS) for the intended use in the State of Wisconsin shall be used.

7. Unless other noted all pipe shall conform to ASTM D-3034 with solvent weld or elastomeric joints, Pipe shall be SDR-35, unless otherwise noted. Pipe over 15 inches in diameter shall meet the requirements of ASTM F679-03.

8. Tracer wire shall be a minimum of 10 gauge, insulated, single-conductor copper wire or equivalent and installed per manufacturer's recommendations.

9. Round Catch Basins shall conform to the following requirements:
   - Round catch basins shall be 48" (MIN) inside diameter precast concrete unless otherwise shown or required. (See plans for specific sizes.)
   - Submit manufacturer's preproduction (shop) drawings for approval prior to the start of manufacturing.
   - Contractor shall carefully locate all pipe locations, sizes, orientation and elevation prior to ordering catch basin.
   - Round catch basins shall meet the requirements of ASTM C478.

10. Where indicated on the plans, existing sewer to be left in place shall be abandoned in accordance with Section 3.2.24 of the Standard Specifications for Sewer & Water Construction (with the exception of paragraph B). Sewer shall not be abandoned until existing services have been reconnected to the replacement sewer. Abandoning sewers is considered incidental to the construction.

    In paved areas or current/future building pad areas, existing storm sewer facilities are required to be abandoned as follows:
   - Remove existing pipes or fill them with sand or grout and seal ends with a minimum 2-foot thick grout plug.
   - Remove existing inlets, catch basins, and manholes to at least 4 feet below finished grade. Provide a minimum 6-inch hole in the bottom of the structure and fill the remaining portion with bedding stone.

SANITARY SEWERAGE UTILITIES

1. Conform all materials to the size and type shown on the plans or as called for in the specifications and to applicable Laws, Codes, and Ordinances.

2. Provide the size, type and class/schedule of pipe as indicated on the drawings. Use only pipe supplied from the same manufacturer, and of the same type, unless otherwise specified or approved in advance by the Engineer.

3. Only pipe, joints, material and installation approved by Wisconsin Department of Natural Resources and/or the Department of Commerce for the intended use in the State of Wisconsin shall be used.

4. Polyvinyl Chloride pipe (PVC) fittings shall meet the requirements for type PSM PVC Sewer Pipe and Fittings of ASTM D3034 for pipe sizes up through 15 inches and ASTM F679 for pipe sizes 18 inches through 36 inches. All PVC sanitary sewer pipe shall have a maximum standard dimension ratio (SDR) of 35. The wall thickness shall conform to requirements for a T-1 wall per ASTM F69-01.

5. Unless other noted all pipe shall conform to ASTM D-3034 with solvent weld or elastomeric joints, Pipe shall be SDR-35, unless otherwise noted, Pipe over 15 inches in diameter shall meet the requirements of ASTM F679-03.

6. Provide precast concrete manholes. Concrete block or cast-in-place manholes may only be used after receiving written approval by the Engineer for customized manhole sizes and shapes. Precast concrete manhole sections, including bottom and top shall meet the requirements of ASTM C478.

7. Unless otherwise noted, provide four 4' diameter manholes. Manhole wall thickness shall be minimum of 5" for 4' diameter manholes, 6" for 5' diameter manholes and 7" for 6' and 7' diameter manholes.

8. Manhole bottom section shall be pre-cast with integral base having a minimum thickness of 8" unless otherwise noted.

9. Sanitary sewer and sewer services shall be provided with 4" of bedding material and 12" of initial cover material (both measured at the bell of the pipe). Crushed stone bedding shall be used for bedding and initial cover.

10. Tracer wire shall be a minimum of 10 gauge, insulated, single-conductor copper wire or equivalent and installed per manufacturer's recommendations.

11. Submittals
    A. Provide manufacturer's product information (cut sheets), shop drawings, and O&M information as indicated in Civil General Requirements for sewer materials including:
       - Pipe
       - Fittings
       - Structures
    B. Provide reports documenting pressure testing, mandreling, and televising
    C. Provide copies of record drawings

CAST IN PLACE CONCRETE

1. Submittals
   A. Concrete mix design: Submit five (5) copies of mix design to Architect for review. This submittal shall include the following:
      - Required cylindrical compression strength for f'c (28 day).
      - Element (curb, driveway, etc.) in which each class (strength of concrete) will be used
      - Cylinder compressive strength test results or complete standard deviation analysis in accordance with ACI 318 Section 5.3
      - Proportions of Materials
      - Source of materials - Cement (type and brand), gravel pit.
      - Aggregate size and certification from an independent testing lab that gradation, specific gravity, soundness, absorption, and impurities meet ASTM requirements.
      - Admixture brand, dosage, literature.
      - Air content
      - Water content and target slump
      - Range of ambient temperature and humidity for which design is valid
      - Special characteristics of mix which require precautions in mixing, placing, or finishing techniques to achieve finished product specified.
   B. Product Data: Submit manufacturer's product data for review with application and installation instructions for proprietary materials and items including: patching compounds, epoxies, curing compounds, dry-shake finish materials, hardeners, sealers etc. for all items specified and used in materials list.

2. All work shall be in accordance with applicable manufacturer's and supplier's instructions.

3. All concrete work which does not conform to the requirements of the Contract Documents and ACI 301, including function, durability, appearance, strength, cracking, tolerances and finishing, shall be corrected as directed by Architect at Contractor's expense. Additional testing, engineering, reinforcement and removal and replacement of defective concrete shall be paid for by Concrete Contractor. Contractor shall also be responsible for the cost of corrections to any other work affected by or resulting from corrections to the concrete work.

4. All concrete, unless otherwise specifically permitted by Architect, shall be transit-mixed in accordance with ASTM C 94.

5. Synthetic Fibers shall be used in concrete mix design in lieu of welded wire fabric. Synthetic fibers shall not replace reinforcing rebar/dowels as depicted on the Construction Details.
   - For concrete sidewalks: Matrix Bi-Blend micro fiber - FRC Industries. Application dosage shall be 1.5 pounds per cubic yard.
   - For concrete pavements: Matrix HPS 950 Macro/micro synthetic blend fiber or Forta Ferro macro fiber - FRC Industries. Application dosage shall be 5 pounds per cubic yard.

5. Concrete must meet all requirements of the ASTM C 94, ACI 211, ACI 318 Chapter 4 Durability Requirements, and those herein specified for materials, proportioning, mixing and other details of manufacturer, quality and deliver.

6. Air entrained concrete: Use for all exterior slabs, walls, walks, platforms, ramps, steps, all portions of parking

7. Concrete requiring air entrainment shall contain six (6) percent plus or minus one and a half (1.5) percent air by volume, for 3/4" dia. aggregate. Conform to ACI 318, Chapter 4.

8. Minimum compressive strength at 28 days: 4000 psi.

9. Maximum aggregate size shall not exceed one third of the slab on grade thickness.

10. Fly Ash may be used as a pound for pound replacement of cement up to 20% of the total cementitious content, 25% for footings, except for finished flatwork during winter construction, subject to Architect's approval.

11. Make one slump test of the first truck of each mix, each day, one test for each compression test and other tests as often as required thereafter, whenever consistency changes.

12. Air content tests shall be made from the first truck of each mix, each day and when-ever test cylinders are made, in accordance with ASTM C 173 or ASTM C231. Test more often when required air contents are not achieved.

13. Concrete Temperature: Test hourly when air temperature is 40 degrees F (4 degrees C) and below, and when 80 degrees F (27 degrees C) and above; and each time a set of compression test specimens is made.

14. If measured slump, air content or concrete temperature falls outside limits specified, a check test shall be made immediately on another portion of same sample. In event of a second failure, concrete shall be considered to have failed to meet requirements of specifications and shall not be used in structure. Notify Architect immediately.

15. Strength tests shall be made for each of the following conditions: Each day's pour, each class of concrete, each change of supplies or source, each 150 cubic yards of concrete or fraction thereof, and each 5000 square feet of surface area for slabs or walls.

16. To conform to requirements of this Specification, the strength level shall be considered satisfactory so long as the average of all sets of three (3) consecutive strength test results equals or exceeds the specified f'c and no individual strength test result falls below the specified strength f'c by more than 500 psi. Architect shall be notified immediately of nonconformance.

17. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.

18. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures in conformance with ACI 301 and ACI 308.

19. Concrete curb and gutter shall be placed in accordance with WisDOT Section 601 to the dimensions and shapes shown in the standard detail drawings. Where curb and gutter details are not provided, curb and gutter shape and dimensions shall match existing adjacent curb and gutter.

20. Concrete sidewalk and driveway shall be placed in accordance with WisDOT Section 602 to the dimensions and thicknesses shown in the detail drawings.

21. Provide concrete pavement having the thickness and reinforcement as shown on the drawings, or to match adjacent existing pavement.

22. Each curb ramp shall be provided with a detectable warning field installed in fresh concrete of all sidewalk and multi-use trails at legal crosswalks, and as shown in the detail drawings. A detectable warning field shall not be installed in asphalt pavements. The detectable warning field shall be installed per manufacturer's recommendations.

PAVEMENT

1. Submittals
   A. Provide copies of material testing reports
   B. Provide manufacturers product information (cut sheets) and mix designs and specifications:
      - Asphalt Mix Design

2. Proof-roll all subgrade areas that are to receive aggregate base or pavement. Proof-roll with a loaded dump truck prior to the placement of base courses to locate soft spots that yield under loading. Loaded truck shall have a minimum gross operating weight of 30 tons.

3. Undercut soft or unsuitable areas of subgrade 2 or as directed by the Geotechnical Engineer. Backfill with granular soil (as indicated in the geotechnical report) fill in maximum 8 inch loose lifts, and compact to the minimum required degree of compaction.

4. Proofrolling,undercutting, and fill operations shall be performed under the observation of the Geotechnical Engineer.

5. Asphalt pavement shall only be installed after a successful proof-roll of the base course has been completed and observed/approved by the geotechnical engineer (immediately before the asphalt pacement).

6. Provide hot mix asphalt (HMA) pavement conforming to the requirements Section 460 of Standard Specifications for Highway Construction. Utilize the same material type through the paving operation unless noted elsewhere on the plans. Materials under this section to the requirements of WisDOT Standard Specifications for Highway AND Structure Construction, Section 445 and as revised in any current Supplemental Specifications.

7. HMA Type:
   - Heavy Duty
     Surface Course: LT-5
     Binder Course: LT-3
   - Regular Duty
     Surface Course: LT-5
     Binder Course: LT-4

8. HMA shall be placed in accordance with the requirements of Section 460 of Standard Specifications for Highway Construction.

9. Asphalt shall not be installed adjacent to new curb nor shall backfilling occur adjacent to new curb no sooner than 7 days after pouring. If desired, Contractor (at his cost) may provide cylinders (tested by the geotechnical engineer) that prove a minimum strength of 3000 psi sooner than 7 days.

10. Pavement Repairs: Full depth sawcut all pavement surfaces to neat and straight lines at the limits of removal by a two-step method (only applicable in areas where existing pavement is not being pulverized), Limit the initial pavement removal to the immediate area of the proposed work. Adjust all inlets, manholes, catch basins, valve boxes, and other such castings to match new finished grade as incidental work.

DENSE GRADED BASE

1. Submittals
   A. Provide copies of material testing reports
   B. Provide manufacturers product information (cut sheets) and mix designs and specifications:
      - Aggregate Gradations

2. Base course material shall be crushed stone or crushed gravel only.

3. Material gradations shall conform to Section 305.2.2 of the WisDOT Standard Specifications for Highway and Structure Construction unless specified elsewhere in the contract documents.

4. Prepare the foundation, or resurface the previously placed base layer, as specified in WisDOT Section 211 before placing base. Do not place base foundations that are soft, spongy, or covered by ice or snow. Water and rework or re-compact dry foundations as necessary to ensure proper compaction, or as the representative designates.

5. In proposed pavement areas, all organic solid shall be removed.

6. In areas of existing pavement to be modified or adjusted in grade, the existing pavement section shall be removed by an acceptable method. The new pavement section shall match the construction details.

7. Proof-roll all subgrade areas that are to receive aggregate base or pavement.

8. Build and maintain stockpiles using methods that minimize segregation and prevent contamination. If the contract specifies location, place stockpiles where specified. Clear and prepare stockpile areas to facilitate the recovery of the maximum amount of stockpiled material.

9. Place aggregate in a manner that minimizes hauling on the subgrade. Do not use vehicles or operations that damage the subgrade or in-place base. Deposit material in a manner that minimizes segregation.

10. Compact the base until there is no appreciable displacement, either laterally or longitudinally, under the compaction equipment.

11. Compact each base layer, including shoulder foreslopes, with equipment specified in WisDOT Section 301.3.1. Use standard compaction conforming to WisDOT Section 301.3.4.2, unless the special provisions specify other methods. Final shaping of shoulder foreslopes does not require compaction.

12. After the project is completed, thoroughly clean up all debris which may have accumulated during the placement of dense graded base. Replace or repair as required, all surfaces and/or landscape features damaged or disturbed under this item of work.

DEMOLITION

1. For utilities or other services requiring removal or abandonment in-place, submit materials documenting completion of such work.

2. Verify all gas and electrical utilities have been abandoned or disconnected and associated hazards mitigated, prior to beginning any demolition.

3. Take all necessary precautions while dismantling piping containing gas, gasoline, oil or other explosive or toxic fluids or gases. Purge lines and contain materials in accordance with all applicable regulations. store such piping outdoors until fumes are removed.

4. Unless otherwise noted, Contractor shall be responsible for obtaining and paying for all permits necessary to complete demolition work.

5. Use Contractor's normal equipment for demolition purposes and which meets all safety requirements imposed on such equipment.

6. Remove all equipment, fixtures and other materials scheduled for salvage prior to be beginning demolition operations.

7. Abandon gas, electric and communication utilities in accordance with local utility company requirements, or applicable substantive requirements if considered private.

8. Demolish foundation walls and other below grade features in accordance with the plans. Unless otherwise noted, remove all below grade features to a point 4' below adjoining existing grade, or proposed grade, whichever is lower. Basement and/or lowest level floors more than 4' below existing grade need not be removed, but must be broken up to permit drainage.

9. Carefully protect and/or replace drain tiles encountered during demolition which are necessary to maintain site drainage conditions. Immediately repair or replace any drain tiles not scheduled for demolition, but damaged. Report damage to the Construction Representative. Repairs to drain tile or replacement drain tile shall be comparable or better than the existing drain tile system.

10. Transport and dispose all demolition waste in accordance with local, state, and federal guidelines.

in. studio architecture
833 E. Michigan St. | Suite 540 | Milwaukee, WI 53202
ph. 414.278.6804 | www.instudioarch.com

PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
SPECIFICATIONS

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C6.00

BUILDING SHELL CONSTRUCTION SET

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EARTHWORK AND EROSION CONTROL

1. Contact the Project Manager to determine the type, and frequency of quality assurance geotechnical testing required on each project. Provide listing of quality assurance geotechnical testing requirements in this item.

2. Contractor shall be solely responsible for determining all earthwork quantities based on the existing and proposed elevations provided on the plans. Any geotechnical investigations provided by the Owner apply only to those locations that the data was collected, and may not be indicative of conditions elsewhere on the site.

3. Erosion control and storm water management practices shall be installed and maintained in accordance with the WDNR approved Technical Standards (or equivalent).

4. Erosion mats, soil stabilizers, and trackifiers shall be listed on the Product Acceptability List for Multi-Modal Applications ("PAL") as published by the Wisconsin Department of Transportation.

5. Silt fence fabric shall comply with the requirements of Standard Specifications for Highway Construction 628.2.6, in 3 foot tall rolls, with 4' tall 2" x 2" nominal cross section hardwood posts spaced a maximum of 10' o.c.. Silt fence shall be Mirafi, Trevira, Amoco, CFM, or approved equal.

6. Erosion mat shall comply with the requirements of Class I, Type A erosion mat as defined by Standard Specifications for Highway Construction and the PAL. Erosion mat shall be American Excelsior, SI Geosolutions, Erosion Control Systems, North American Green, or approved equal.

7. Fieldstone Cobbles stone shall be the size and type specified on plans. Contractor shall provide an on-site sample for approval prior to installation.

8. The aggregate for tracking pads shall be 3 to 6 inch clear of washed stone. All materials shall be retained on a 3-inch sieve. (if required)

9. Soil stabilizers shall be non-asphalt-based products of the type specified, and meeting the requirements of the PAL.

10. Polymers used to settle suspended sediment shall meet the requirements of the WDNR Technical Standards.

11. Water soluble anionic polyacrylamide (PAM) used as temporary soil binding agents to reduce erosion shall meet the requirements of WDNR Technical Standards.

12. Install erosion control measures as required by the erosion control plan and contract documents. **Provide additional erosion control measures as dictated by Contractor's means and methods, or by differing site conditions.** Notify Construction Representative of additional erosion control features that are provided, but not shown on the plan.

13. Convey drainage to the nearest adequate stormwater facility. Do not discharge water in a manner that will cause erosion or sedimentation of the site or receiving facility.

14. Grading Limits: Confine work to the Construction Limits as indicated on the drawings. In the absence of such a designation on the drawings, confine work to the minimum area reasonably necessary to undertake the work as determined by the Engineer. All areas disturbed by excavation and grading, plus such additional areas as are disturbed by construction related activities including construction access and storage and installation of materials shall be considered the "Construction Area."

15. Contractor to review specific method of soil preparation as listed in the geotechnical report.

16. Contractor is to establish all heights and grades to properly execute work from benchmark established by others (from original survey work). It is strongly recommended that the original surveyor be contacted and used for all construction layout as well as as-built surveys in an effort to avoid conflict between datums and horizontal control points used. Prior to construction layout, existing and proposed finished floor elevations shall be checked with respect to current site benchmarks to ensure elevations correspond with layout elevations.

17. Contractor shall provide all construction layout surveys to accurately locate the construction on the site.

18. Prior to start of work, Contractor shall be completely familiar with all conditions at the site, and shall account for conditions that may affect the work including: Geotechnical recommendations and methods, limitations on work access, space limitations, overhead obstructions, traffic patterns, local requirements, adjacent activities, etc. Failure to consider these requirements shall not be cause for claim of job extras.

19. Inspect areas and conditions prior to clearing, excavating, filling, and grading. Do not proceed until unsatisfactory conditions have been corrected.

20. Permits and Fees:
    Apply for, pay for and secure all permits required in connection with the work under this section from the governmental authorities having jurisdiction.

21. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout and other hazards created by earthwork and dewatering operations. Protect and maintain all lawns, beds, shrubs, trees, and other work that is to remain in place.
    A. Should damage occur as a result of work performed under this contract, restore to existing condition at no additional cost to Owner, in a manner acceptable to Architect.
    B. Repair or replace trees and vegetation indicated to remain which are damaged by construction operations, in a manner acceptable to Architect.

EARTHWORK AND EROSION CONTROL (CONT.)

22. Conduct site clearing operations to ensure minimum interference with roads, streets, walks and other adjacent occupied or used facilities. Do not close or obstruct roads or other occupied or used facilities without permission from Owner and authorities having jurisdiction.

23. Carefully remove items indicated to be salvaged, and store on Owner's premises where indicated or directed.

24. Provide and maintain temporary fences, planking, lights, warning signs, barricades and guards necessary for protection of premises and public.

25. Maintain cut at satisfactory slope which will prevent collapse of embankments. Provide bracing and shoring as required to protect existing improvements, including outside contract limits, new construction or excavations. Contractor is solely responsible for strength and adequacy of bracing or shoring and for safety. Conform to OSHA requirements. Restore any damaged improvements to their original condition.

26. Do not load vehicles hauling debris excessively as to cause spillage on to streets and roadways. Do not allow spilled materials to clog drainage of streets.

27. Keep sidewalks and streets adjoining the property broom clean and free of debris, excavated materials, rubbish, trash and obstructions, which might affect the safety of streets, walks, utilities and property. Broom clean daily.

28. Use all means necessary to control dust on and near the work, if such dust is caused by the Contractor's operations during performance of the work, or if resulting from the condition in which the Contractor leaves the site.

29. Provide positive protection (mat/sheet coverings) for all excavation slopes to protect slopes from instability and deterioration due to rain, wind or snow/ice.

30. Construct, maintain and protect erosion and sedimentation controls

31. Topsoil:
    A. Strip all topsoil to the full depth of all organic material.
    B. Remove heavy growths of grass from areas before stripping.
    C. where existing trees are indicated to remain, leave existing topsoil in place within drip lines to prevent damage to root system.
    D.Stockpile topsoil on site in storage piles (location to be agreed to by Owner) in areas indicated or directed. Construct storage piles to provide free drainage on site of surface water. Stabilize top soil pile
    E. Dispose of unsuitable or excess topsoil same as specified for disposal of waste material.

32. Provide all necessary cutting and filling required to change existing grade specified or as shown on drawings.

33. Excavated earth shall remain on site, if possible, and placed where directed.
    A. After final grading work is complete, remove any excess earth from premises. Where site constraints dictate, excavated earth shall be stored off-site or landfilled.
    B. All surplus earth shall be removed from premises.

34. Grading Outside Building Lines: Grade areas adjacent to building lines to drain away from structures and to prevent ponding. Finish surfaces free from irregular surface changes.
    A. All contours and/or spot elevations shown on Drawings are to finish grade, unless otherwise noted (i.e. top of pavement, topsoil, etc.). Contractor shall be responsible for making excavations or embankments to the subgrade elevations necessary such that the addition of the pavement, topsoil or whatever surface improvement, will ensure that finished grades are met.
    B. Contours indicated on drawings are the finished grade elevations. Review all grade elevations before commencing work to insure that proper slopes for drainage, slopes for drives, walks, paving, etc., are maintained. If Contractor believes a deficiency is apparent, he shall notify the Architect for clarification and correction.
    C. Pavements:
        a. Shape the surface of the areas under pavement to line, grade and cross-section, compacted as specified, and graded to prevent ponding of water after rains. Rough grade tolerance shall conform to +0 in./-1 1/2 in. Fine grading tolerance shall conform to +0 in./-3/4 in.
        b. Include such operations as plowing, discing, and any moisture or aerating required to provide the optimum moisture content for compaction.
        c. Fill low areas resulting from removal of unsatisfactory soil material, obstructions, and other deleterious materials, using structural fill material. Shape to line, grade, and cross-section as shown.
    D. Ditches: Finish ditches to ensure proper flow and drainage. Conduct final rolling operations to produce a hard, uniform and smooth cross-section.

35. Grading Surface of Fill Under Slabs: Grade smooth and even, free of voids, compacted as specified, and to required elevation. Provide final grades within a tolerance of +0 in./-3/4 in.

36. Compaction: After grading, compact subgrade surfaces to the percentage of maximum density for each area classification.

37. Preparation for Lawn Construction: Preparation of Subgrade: Grade and uniformly compact subgrade so that it will be parallel to proposed finished grade. Loosen subgrade materials and mix to a depth of 8". Remove all stones over 1" in size and remove all sticks and rubbish. Do not move heavy objects, except lawn rollers, over lawn areas after the subgrade soil has been prepared unless subgrade soil is again graded and loosened, as specified above, before topsoil is spread.

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ph. 414.278.6804 | www.instudioarch.com

PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
SPECIFICATIONS

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
C6.00

BUILDING SHELL CONSTRUCTION SET

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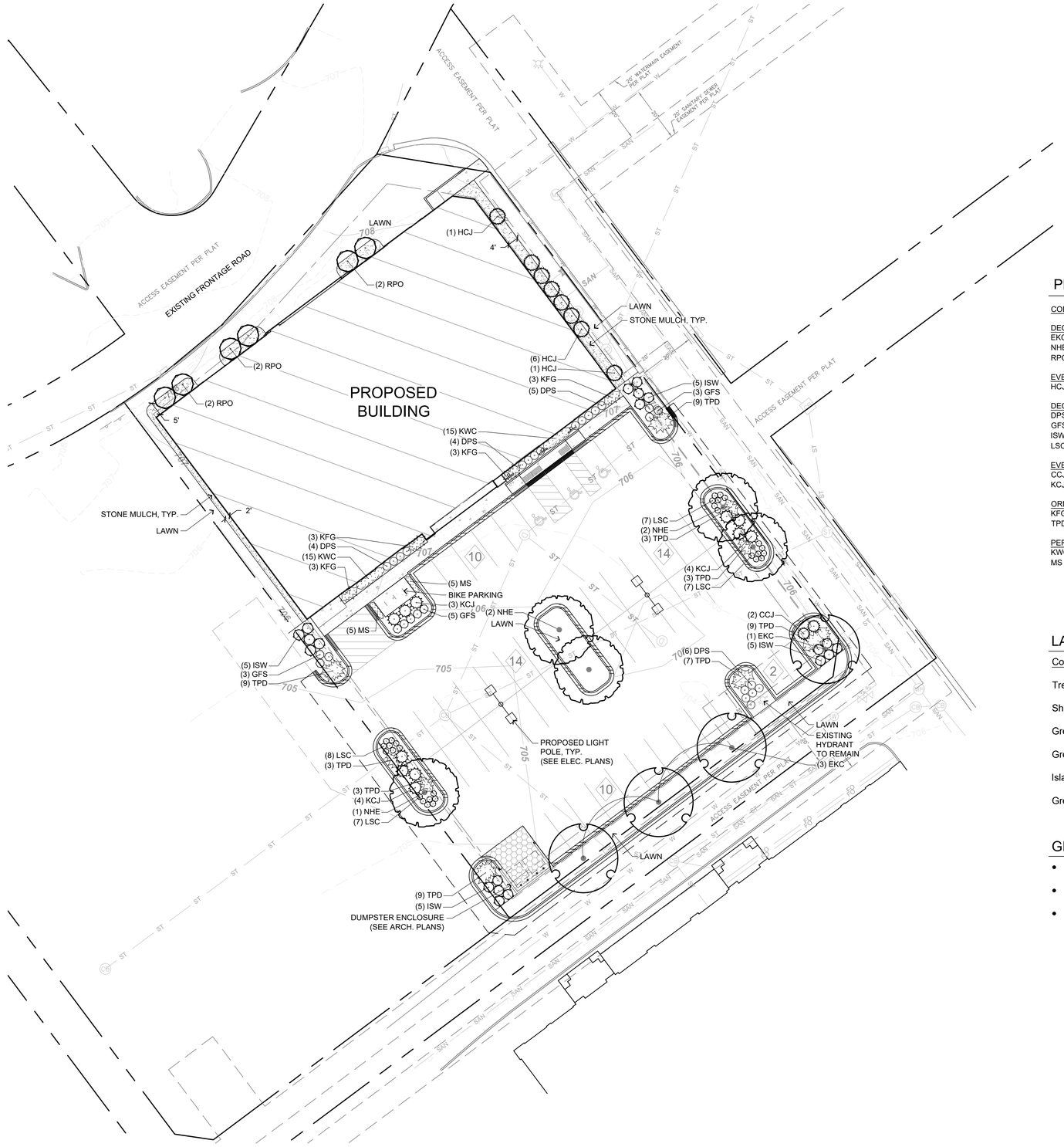

PLANT SCHEDULE

CODE	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	SPACING
DECIDUOUS TREES						
EKC	4	Espresso Kentucky Coffeetree	Gymnocladus dioicus 'Espresso'	2" Cal.	B&B	As Shown
NHE	5	New Horizon Elm	Ulmus x 'New Horizon'	2" Cal.	B&B	As Shown
RPO	6	Regal Prince® Oak	Quercus robur x bicolor 'Long'	2" Cal.	B&B	As Shown
EVERGREEN TREES						
HCJ	8	Hetzi Column Juniper	Juniperus chinensis 'Hetzii Columnaris'	5` Ht.	B&B	As Shown
DECIDUOUS SHRUBS						
DPS	19	Double Play Doozie® Spirea	Spiraea x 'NCSX2'	18" Ht.	Cont.	As Shown
GFS	11	Goldflame Spirea	Spiraea x bumalda 'Goldflame'	18" Ht.	Cont.	As Shown
ISW	20	Iceberg Alley® Sageleaf Willow	Salix candida 'Jefberg'	24" Ht.	Cont.	As Shown
LSC	29	Low Scape Mound® Black Chokeberry	Aronia melanocarpa 'UCONNAM165'	15" Ht.	Cont.	As Shown
EVERGREEN SHRUBS						
CCJ	2	Calgary Carpet Juniper	Juniperus sabina 'Calgary Carpet' TM	24" Sprd.	Cont.	As Shown
KCJ	11	Kallay's Compact Pfitzer Juniper	Juniperus x pfitzeriana 'Kallay's Compact'	24" Sprd.	Cont.	As Shown
ORNAMENTAL GRASSES						
KFG	12	Karl Foerster Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	#1	Cont.	24" o.c.
TPD	55	Tara Prairie Dropseed	Sporobolus heterolepis 'Tara'	#1	Cont.	24" o.c.
PERENNIALS						
KWC	30	Kismet® White Coneflower	Echinacea x 'TNECHKW'	#1	Cont.	18" o.c.
MS	10	Matrona Sedum	Sedum x 'Matrona'	#1	Cont.	18" o.c.

LANDSCAPE REQUIREMENTS

Code Category	Measurement	Ratio	Requirement	Provided
Trees	37,222 SF (Lot Area)	2 Trees / 600 SF	22.6 Trees	23 Trees
Shrubs	32,222 SF (Lot Area)	8 Shrubs / 600 SF	90.4 Shrubs	92 Shrubs
Greenspace - Prkg Lot	19,080 SF (Prkg Area)	10% of Prkg Area	1,908 SF	2,484 SF (13.0%)
Greenspace Int. to Prkg		5% of Prkg Area	954 SF	960 SF (5.0%)
Islands in Prkg Lot	50 Spaces	1 / 20 Spaces	3 Islands	9 Islands
Greenspace - Total	37,222 SF (Lot Area)	10% of Lot Area	3,722 SF	6,991 SF (18.8%)

GENERAL NOTES

- Lawn areas to be seeded with premium, commercial grade seed mix; see specifications.
- Plant beds and parking lot islands to receive a 2-3" deep layer of shredded hardwood mulch; see specifications.
- All plantings shall comply with standards as described in the American Standard of Nursery Stock - ANSI Z60.1 (Latest Version)

DIGGER'S HOTLINE CALL BEFORE YOU DIG 1-800-242-8511

IN ACCORDANCE WITH WISCONSIN STATUTE 182.0175, DAMAGE TO TRANSMISSION FACILITIES, EXCAVATOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE ADVANCE NOTICE TO THE DESIGNATED "ONE CALL SYSTEM" NOT LESS THAN THREE WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION REQUIRED TO PERFORM WORK CONTAINED ON THESE DRAWINGS, AND FURTHER, EXCAVATOR SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF THIS STATUTE RELATIVE TO EXCAVATOR'S WORK.

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ph. 414.278.6804 | www.instudioarch.com

PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy

3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
LANDSCAPE PLAN

North

SCALE: 1" = 20'

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
L1.00

BUILDING SHELL CONSTRUCTION SET

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LANDSCAPE NOTES

GENERAL

1.01 All landscape installation and maintenance to conform with all applicable local codes and ordinances.

1.02 See site drawings for work limits, scope of construction, hardscape, dimensions and/or construction notes. See civil drawings. for all hardscape, grading, stormwater management, site utilities and erosion control. See landscape drawings. for landscape plans, site amenities, details, schedules, notes. See architectural drawings. for all construction. See electrical drawings for all power, circuiting, lighting and security. See mechanical drawings for other site equipment.

1.03 Contractor shall provide shop drawings and material submittals of **all** hardscape and landscape construction elements shown in plan set for landscape architect review prior to construction.

1.04 Contractor to provide samples for landscape architect's approval on all colors, finishes and materials prior to construction, including (but not limited to) topsoil, gravels, mulches, seed mixes, etc.

1.05 Caution: underground utilities are present on site. The contractor shall verify location of all above- and below-grade utilities, both public and private, prior to commencement of site construction. If unanticipated above- or below-grade conditions are encountered, notify client and landscape architect prior to proceeding. Coordinate with local public utility locating entity as needed.

1.06 Contractor to verify hardscape layout prior to construction. Contact landscape architect if discrepancies are found.

1.07 Contractor to limit construction traffic to within work limit lines. All adjacent damage shall be the responsibility of the contractor to restore. See civil drawings for limits of disturbance.

1.08 All written dimensions supersede scaled dimensions. All dimensions are taken from face of curb, wall or existing building foundations.

PLANTING

2.01 Rough grading and topsoil import/spreading are to be completed by others. Finish grading, seed area and planting bed preparation shall be the landscape contractor's responsibility. Verify all existing site and grading conditions prior to construction.

2.02 All areas disturbed by site construction shall be fine graded and restored with vegetative cover as shown. See plans for cover types and locations, see specifications for materials and installation.

2.03 Landscape contractor shall verify plant quantities shown on plan. Symbol quantities take precedence over plant schedule. Landscape contractor shall forward a material list to the landscape architect prior to construction identifying species, sizes and plant sources to be used on the project. Any potential plant substitutions or changes to sizes shown on plan and appropriate cost credits / adjustments much be submitted in writing to the general contractor and approved by the owner's representative and landscape architect prior to installation.

2.04 All plant materials shall conform to the schedule and shall meet quality requirements outlined in the ANLA "American Standard for Nursery Stock", ANSI Z60.1-2014. The landscape architect, general contractor or owner's representative reserves the right to reject any substandard planting material. Such rejected material shall be removed from the project site immediately.

2.05 An owner's representative shall be allowed to inspect and approve trees at the nursery prior to delivery to the site.

2.06 All nursery tags/labels shall be left on plant materials until the project punch-list inspection is completed by the landscape architect. Untagged materials will be assumed to be deficient.

2.07 Topsoil requirements:

- All planting beds shall contain screened, blended topsoil mix to a minimum depth of 18". All seeded areas shall have minimum depth of 4".
- Existing topsoil meeting project specifications may be stripped, stored and re-used if previously approved. Landscape contractor shall remove all excessive clay, gravel and stones detrimental to healthy plant growth. Landscape contractor shall remove all debris greater than 1" diameter.
- Subgrade shall be tilled and/or scarified prior to placement of topsoil.
- Landscape contractor shall be responsible for obtaining soil tests for existing or imported topsoil. Soil testing results shall include (but are not limited to) soil pH, % organic matter, %nitrogen/phosphorus/potassium, % calcium, and soil texture (percentages of sand, silt and/or clay.) Soil testing shall include recommendations for soil amendments, if required to support growth of standard ornamental landscape materials.
- Contaminated soil shall be removed from the project site if discovered.

2.08 Grading and/or landscape contractor shall provide positive drainage away from all structures for a minimum of 10'.

2.09 Landscape contractor is responsible for ensuring that all tree pits and planting areas drain properly. Notify landscape architect if drainage or moisture issues are encountered while planting.

2.10 Tree Planting (see detail):

- Identify root flare - the part of the trunk where roots spread out at the base of the tree. Root flare should be visible (not buried under mulch or soil) after the tree has been planted. Plant all trees slightly higher than finished grade at root flare.
- Dig hole two to three times as wide as the root ball, and slightly shallower than root ball. Break up compacted soil on sides of hole, leaving bottom of hole firm.
- Once tree has been placed in hole, ensure it is at the proper depth and vertical alignment before tamping soil around lower portion of root ball.
- Remove and discard all synthetic twine from root ball.
- Without loosening the root ball, peel back, cut and remove as much of the wire basket as possible.
- Backfill with 25% compost and 75% existing soil blended prior to backfilling holes, in six inch lifts. Lightly compact each lift using foot pressure to settle backfill, support the tree and eliminate voids.
- When the planting hole has been backfilled to three-quarters of its depth, pour water around the root ball to settle the soil. Continue backfilling until soil is brought to grade level.
- Refer to Mulching note below.
- Trees that are installed incorrectly will be replaced at the time and expense of landscape contractor.

2.11 Tree Staking: Due to unique site characteristics and the specific qualities of each tree, some trees may need to be staked. If the root ball is unstable, the trunk is bending, or the tree is planted in a very windy or otherwise unstable location, it should be staked.

2.12 Shrub Planting (see detail):

- All shrubs shall be backfilled with 25% compost and 75% existing soil, blended prior to backfilling holes.
- Remove twine and top third of burlap from B&B shrubs. Remove and discard all synthetic twine.
- When planting hole has been backfilled to three-quarters of its depth, pour water around the rootball to settle the soil.
- Continue backfilling until soil is brought to grade level.

2.13 Plant Bed Preparation: the soil in all perennial and ornamental grass areas, shall be amended with compost prior to plant installation. Spread a 3" layer of compost (per note below) on top of clean topsoil and rototill to a depth of approximately 8".

2.14 Compost shall be stable and weed-free organic matter. It shall be resistant to further decomposition and free of compounds, such as ammonia and organic acids in concentrations toxic to plant growth. The compost shall contain no pathogens or other chemical contaminants and be free of physical contaminants (i.e. plastic). The compost shall have a pH between 5.5 - 8.5, be finely (⅜" - ½") screened and contain an organic content between 25-65%.

2.15 Unless otherwise shown, all shrubs, perennials and ornamental grasses to be planted in triangular arrangements. For plants not shown individually, refer to the spacing shown in the plant schedule.

2.16 Mulching: All tree and shrub planting beds (except where noted) to receive a 3" deep layer of high quality, shredded hardwood mulch, reduced to a depth of 1" on top of root balls. All perennial and ornamental grass areas to receive 2" of the same mulch. Do not allow mulch to contact plant stems and tree trunks (keep 4" to 6" away from tree trunks). For trees in lawn areas, create a 3" deep, 4 ft. diameter ring of mulch, reduced to a depth of 1" on top of root ball. Form mulch into a low saucer shape a little higher at the outer edge to help contain water.

2.17 Stone Mulch: Shall contain 2-3" of large Mississippi washed stone at approximately 1-1/2" diameter installed over non-woven geotextile fabric over compacted sub-grade. Edge with metal edging.

2.18 Plant Bed Edging: Edge all planting beds adjacent to lawn areas with a 4" deep shovel cut or mechanical edge. Bedlines are to be cut per plan. A clean definition between the lawn and plant bed is required.

2.19 Metal Edging: 3/16" thick x 4" depth mill finished aluminum edging. Permaloc "Cleanline", Holland, MI or approved equal. Install per manufacturer's specifications. Provide only where stone maintenance strips are indicated on the landscape plan.

LAWN / SEEDING

3.01 This work shall consist of preparing the seed beds and furnishing, sowing and mulching the required seed for the various seeded areas, as outlined in the site plans and specifications. All turf restoration shall be seeded turf unless otherwise noted.

3.02 Rough grading, drainage work, topsoiling and fine grading shall be completed before sowing the seed mixes. A minimum depth of 4" of blended, prepared and non-compacted topsoil is required for all seeded. The areas to be seeded shall be worked with plow chisels, discs and harrows, soil finishers and/or other appropriate equipment until a reasonably even and loose seedbed is obtained. Seed beds shall be prepared immediately in advance of the seeding. If proposed seed areas are weedy, contractor to apply herbicide or other weed control measures to eliminate weeds. Follow herbicide's recommended waiting period, if any, prior to seeding.

3.03 Confirm that anticipated project schedule date(s) fall within industry standards for seed installation prior to performing any work. Installations completed outside of acceptable seeding dates shall be the performed at the sole responsibility and expense of the contractor. For dormant seeding, a minimum of one over-seed application in the following season will be required.

3.04 Provide seed mix invoices, bag-tags or mix analysis results to landscape architect for approval prior to installation. Native seed shall be sold on a PLS basis.

3.05 The seed mixtures shall be sown by means of equipment adapted to the purpose. Mechanical distribution of seed (i.e. Truax seed drill, Brillion seeder, cultipacker, slit-seeder, drop spreader or broadcast spreader) are the accepted methods.

3.06 No seeding shall occur if the wind exceeds 12 MPH.

3.07 Coordinate erosion control and/or mulching with civil drawings:

- In sloped areas steeper than 4:1, erosion matting shall be installed by others. Landscape installation shall be coordinated with the grading contractor.
- In areas with slopes between 4:1 and 8:1, grading and/or landscape contractor shall apply straw mulch, free of debris and seeds, on all newly seeded areas. Mulch shall be uniformly spread over the designated area at a rate of 55 bales per acre or as indicated in the respective seed supplier's specifications. Mulch material shall be chopped and blown into the seeded area. A tactifier may be necessary to avoid wind damage.
- Lightweight erosion control matting and/or hydromulch will be accepted as a no-cost alternate if approved by landscape architect prior to application.

3.08 See civil drawings for erosion control measures. Coordinate with grading contractor where required to ensure that topsoil, seeding and/or mat installations are properly coordinated.

3.09 Seed mix substitutions will be considered only if submitted for approval 10 days before the close of bidding. All mixes shall be installed and maintained per supplier's specifications.

LAWN SEED MIX:
"Wear-N-Tear Mix" shall be supplied by La Crosse Seed, La Crosse, WI, 800-356-7333. Apply at 5 lbs per 1000 SF.

3.10 Based on soil test results, apply an appropriate starter fertilizer at the time of seeding.

3.11 Landscape contractor is responsible for establishing a smooth, uniform, quality turf. An acceptable quality turf is defined as having no more than 5% of the total area with bare spots larger than 1/2 square foot and uniform coverage throughout all turf areas.

LANDSCAPE MAINTENANCE AND WARRANTY

4.01 Maintenance until Substantial Completion: Landscape contractor is responsible for maintaining all landscape areas throughout construction until Substantial Completion of the landscape installation. Substantial completion is defined as sufficiently finished so that the landscape is functional / able to be utilized for its intended purpose. Only minor, corrective or warranty work remains. Maintenance includes all trees, shrubs, perennials, ornamental grasses and seeded areas. Work shall include:

- watering as needed for establishment of plant material
- watering as needed for establishment of seeded areas
- weeding and/or herbicide application
- mowing of seeded areas after appropriate waiting period
- pruning of dead plant material

4.02 Warranty and Replacements: All plants (trees, evergreens, shrubs, perennials and ornamental grasses) shall be guaranteed (100% replacement) for one year from the date of Substantial Completion. This assumes the owner performs required maintenance (i.e. regular watering, etc.) after substantial completion of the landscape installation. Only one replacement per plant will be required during the warranty period, except for losses due to failure to comply with landscape specifications. Replacements shall be plants of the same variety specified on the plant and closely match adjacent specimens in size. The landscape contractor is responsible for keeping a documented record of which plants have been replaced during the warranty period.

HARDSCAPE / AMENITY

5.01 Bike racks: Shall be Inverted-U style, powdercoat finish, color black, surface-mounted with stainless steel hardware, 'U Bike Rack' - U190-SF-P. Shall be furnished by Madrax, Madison WI, 608-849-1080; or approved equal.

Qty. (3)

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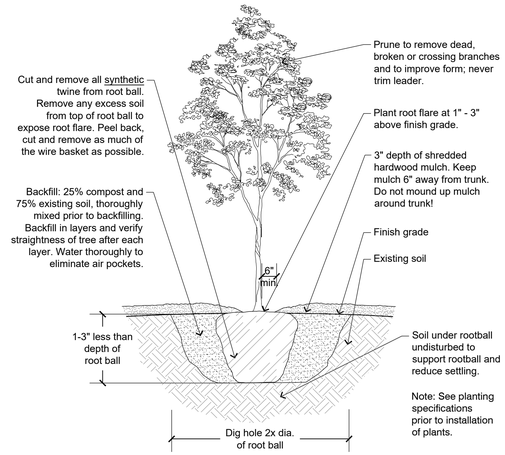
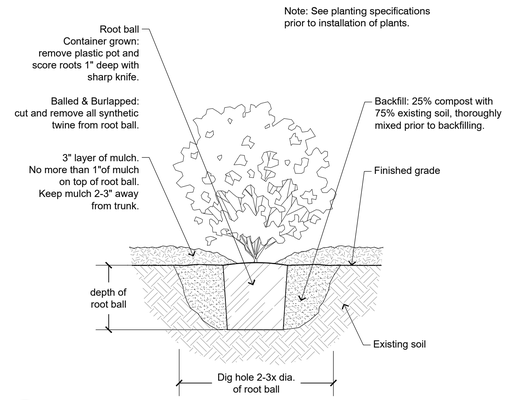
IN ACCORDANCE WITH WISCONSIN STATUTE 182.0175, DAMAGE TO TRANSMISSION FACILITIES, EXCAVATOR SHALL BE SOLELY RESPONSIBLE TO PROVIDE ADVANCE NOTICE TO THE DESIGNATED "ONE CALL SYSTEM" NOT LESS THAN THREE WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION REQUIRED TO PERFORM WORK CONTAINED ON THESE DRAWINGS, AND FURTHER, EXCAVATOR SHALL COMPLY WITH ALL OTHER REQUIREMENTS OF THIS STATUTE RELATIVE TO EXCAVATOR'S WORK.

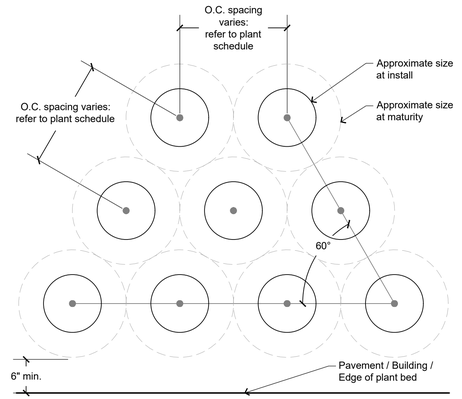
LANDSCAPE DETAILS



1 TREE PLANTING DETAIL
NOT TO SCALE P-2025-25.1117-01



2 SHRUB PLANTING DETAIL
NOT TO SCALE P-2025-25.1117-03



3 TRIANGULAR PLANT SPACING DETAIL
NOT TO SCALE P-2025-25.1117-04

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833 E. Michigan St. | Suite 540 | Milwaukee, WI 53202
ph. 414.278.6804 | www.instudioarch.com
PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025
FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
LANDSCAPE NOTES & DETAILS

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
L2.00

BUILDING SHELL CONSTRUCTION SET

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SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. CRITERIA DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - PROJECT INFORMATION

A. PROJECT IDENTIFICATION: LA-Z-BOY HOME FURNISHINGS & DECOR

B. LA-Z-BOY CORPORATE: ONE LA-Z-BOY DRIVE, MONROE, MICHIGAN 48162.

1.3 - WORK COVERED BY CONTRACT DOCUMENTS

A. THE WORK OF PROJECT IS DEFINED BY THE LA-Z-BOY CORPORATE CONTRACT DOCUMENTS RELATIVE TO THIS PROJECT CONTAIN A PROJECT SCOPE DESCRIPTION WITH REFERENCE TO CRITERIA DRAWINGS AND STANDARDS.

1.4 - WORK BY LA-Z-BOY CORPORATE

A. GENERAL: COOPERATE FULLY WITH LA-Z-BOY CORPORATE SO WORK MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH OR DELAYING WORK UNDER THIS CONTRACT OR WORK BY LA-Z-BOY CORPORATE. COORDINATE THE WORK OF THIS CONTRACT WITH WORK PERFORMED BY OWNER.

1.5 - WORK UNDER SEPARATE CONTRACTS

A. GENERAL: COOPERATE FULLY WITH SEPARATE CONTRACTORS SO WORK ON THOSE CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH OR DELAYING WORK UNDER THIS CONTRACT OR OTHER CONTRACTS. COORDINATE THE WORK OF THIS CONTRACT WITH WORK PERFORMED UNDER SEPARATE CONTRACTS.

1.6 - LA-Z-BOY CORPORATE FURNISHED PRODUCTS

A. LA-Z-BOY CORPORATE WILL FURNISH ONLY PRODUCTS AS NOTED IN THE SCOPE OF WORK SPECIFIC TO THE PROJECT. THE CONTRACTOR'S WORK INCLUDES RECEIVING, UNLOADING, HANDLING, STORING, PROTECTING, AND INSTALLING OWNER-FURNISHED PRODUCTS.

1.7 - SPECIFICATION AND DRAWING CONVENTIONS

A. SPECIFICATION CONTENT: THE SPECIFICATIONS USE CERTAIN CONVENTIONS FOR THE STYLE OF LANGUAGE AND THE INTENDED MEANING OF CERTAIN TERMS, WORDS, AND PHRASES WHEN USED IN PARTICULAR SITUATIONS. THESE CONVENTIONS ARE AS FOLLOWS:

1. IMPERATIVE MOOD AND STREAMLINED LANGUAGE ARE GENERALLY USED IN THE SPECIFICATIONS. THE WORDS "SHALL," "SHALL BE," OR "SHALL COMPLY WITH," DEPENDING ON THE CONTEXT, ARE IMPLIED WHERE A COLON (:) IS USED WITHIN A SENTENCE OR PHRASE.
2. SPECIFICATION REQUIREMENTS ARE TO BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY STATED OTHERWISE.

B. DIVISION 01 GENERAL REQUIREMENTS: REQUIREMENTS OF SECTIONS IN DIVISION 01 APPLY TO THE WORK OF ALL SECTIONS IN THE SPECIFICATIONS.

C. DRAWING COORDINATION: REQUIREMENTS FOR MATERIALS AND PRODUCTS IDENTIFIED ON DRAWINGS ARE DESCRIBED IN DETAIL IN THE SPECIFICATIONS. ONE OR MORE OF THE FOLLOWING ARE USED ON DRAWINGS TO IDENTIFY MATERIALS AND PRODUCTS:

1. TERMINOLOGY: MATERIALS AND PRODUCTS ARE IDENTIFIED BY THE TYPICAL GENERIC TERMS USED IN THE INDIVIDUAL SPECIFICATIONS SECTIONS.
2. ABBREVIATIONS: MATERIALS AND PRODUCTS ARE IDENTIFIED BY ABBREVIATIONS.
3. KEYNOTING: MATERIALS AND PRODUCTS ARE IDENTIFIED BY REFERENCE KEYNOTES REFERENCING SPECIFICATION SECTION NUMBERS FOUND IN THIS PROJECT MANUAL.

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. CRITERIA DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR SUBSTITUTIONS.

1.3 - DEFINITIONS

A. SUBSTITUTIONS: CHANGES IN PRODUCTS, MATERIALS, EQUIPMENT, AND METHODS OF CONSTRUCTION FROM THOSE REQUIRED BY THE CONTRACT DOCUMENTS AND PROPOSED BY CONTRACTOR.

1. SUBSTITUTIONS FOR CAUSE: CHANGES PROPOSED BY CONTRACTOR THAT ARE REQUIRED DUE TO CHANGED PROJECT CONDITIONS, SUCH AS UNAVAILABILITY OF PRODUCT, REGULATORY CHANGES, OR UNAVAILABILITY OF REQUIRED WARRANTY TERMS.

1.4 - ACTION SUBMITTALS

A. SUBSTITUTION REQUESTS: SUBMIT THREE COPIES OF EACH REQUEST FOR CONSIDERATION. IDENTIFY PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED. INCLUDE SPECIFICATION SECTION NUMBER AND TITLE AND DRAWING NUMBERS AND TITLES.

1. SUBSTITUTION REQUEST FORM: USE FACSIMILE OF PROJECT ENGINEER/ARCHITECT (ARCHITECT OR ENGINEER OF RECORD) FORM.
2. DOCUMENTATION: SHOW COMPLIANCE WITH REQUIREMENTS FOR SUBSTITUTIONS AND THE FOLLOWING, AS APPLICABLE:

a. STATEMENT INDICATING WHY SPECIFIED PRODUCT OR FABRICATION OR INSTALLATION METHOD CANNOT BE PROVIDED, IF APPLICABLE.
b. COORDINATION OF INFORMATION, INCLUDING A LIST OF CHANGES OR REVISIONS NEEDED TO OTHER PARTS OF THE WORK AND TO CONSTRUCTION PERFORMED BY OWNER AND SEPARATE CONTRACTORS THAT WILL BE NECESSARY TO ACCOMMODATE PROPOSED SUBSTITUTION.
c. DETAILED COMPARISON OF SIGNIFICANT QUALITIES OF PROPOSED SUBSTITUTIONS WITH THOSE OF THE WORK SPECIFIED. INCLUDE ANNOTATED COPY OF APPLICABLE SPECIFICATION SECTION. SIGNIFICANT QUALITIES MAY INCLUDE ATTRIBUTES, SUCH AS PERFORMANCE, WEIGHT, SIZE, DURABILITY, VISUAL EFFECT, SUSTAINABLE DESIGN CHARACTERISTICS, WARRANTIES, AND SPECIFIC FEATURES AND REQUIREMENTS INDICATED. INDICATE DEVIATIONS, IF ANY, FROM THE WORK SPECIFIED.
d. PRODUCT DATA, INCLUDING DRAWINGS AND DESCRIPTIONS OF PRODUCTS AND FABRICATION AND INSTALLATION PROCEDURES.
e. SAMPLES, WHERE APPLICABLE OR REQUESTED.
f. CERTIFICATES AND QUALIFICATION DATA, WHERE APPLICABLE OR REQUESTED.
g. MATERIAL TEST REPORTS FROM A QUALIFIED TESTING AGENCY, INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE WITH REQUIREMENTS INDICATED.
h. RESEARCH REPORTS EVIDENCING COMPLIANCE WITH BUILDING CODE IN EFFECT FOR PROJECT.
i. DETAILED COMPARISON OF CONTRACTOR'S CONSTRUCTION SCHEDULE USING PROPOSED SUBSTITUTIONS WITH PRODUCTS SPECIFIED FOR THE WORK, INCLUDING EFFECT ON THE OVERALL CONTRACT TIME. IF SPECIFIED PRODUCT OR METHOD OF CONSTRUCTION CANNOT BE PROVIDED WITHIN THE CONTRACT TIME, INCLUDE LETTER FROM MANUFACTURER, ON MANUFACTURER'S LETTERHEAD, STATING DATE OF RECEIPT OF PURCHASE ORDER, LACK OF AVAILABILITY, OR DELAYS IN DELIVERY.
j. COST INFORMATION, INCLUDING A PROPOSAL OF CHANGE, IF ANY, IN THE CONTRACT SUM.
k. CONTRACTOR'S CERTIFICATION THAT PROPOSED SUBSTITUTION COMPLIES WITH REQUIREMENTS IN THE CONTRACT DOCUMENTS, EXCEPT AS INDICATED IN SUBSTITUTION REQUEST, IS COMPATIBLE WITH RELATED MATERIALS AND IS APPROPRIATE FOR APPLICATIONS INDICATED.
l. CONTRACTOR'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME THAT MAY SUBSEQUENTLY BECOME NECESSARY BECAUSE OF FAILURE OF PROPOSED SUBSTITUTION TO PRODUCE INDICATED RESULTS.

3. LA-Z-BOY CORPORATE ACTION: IF NECESSARY, LA-Z-BOY CORPORATE WILL REQUEST ADDITIONAL INFORMATION OR DOCUMENTATION FOR EVALUATION WITHIN SEVEN DAYS OF RECEIPT OF A REQUEST FOR SUBSTITUTION. LA-Z-BOY CORPORATE WILL NOTIFY CONTRACTOR OF ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTION WITHIN 15 DAYS OF RECEIPT OF REQUEST, OR SEVEN DAYS OF RECEIPT OF ADDITIONAL INFORMATION OR DOCUMENTATION, WHICHEVER IS LATER.

a. FORMS OF ACCEPTANCE: CHANGE ORDER, CONSTRUCTION CHANGE DIRECTIVE.
b. USE PRODUCT SPECIFIED IF LA-Z-BOY CORPORATE DOES NOT ISSUE A DECISION ON USE OF A PROPOSED SUBSTITUTION WITHIN TIME ALLOCATED IS PROHIBITED.

1.5 - QUALITY ASSURANCE

A. COMPATIBILITY OF SUBSTITUTIONS: INVESTIGATE AND DOCUMENT COMPATIBILITY OF PROPOSED SUBSTITUTION WITH RELATED PRODUCTS AND MATERIALS. ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM COMPATIBILITY TESTS RECOMMENDED BY MANUFACTURERS.

1.6 - PROCEDURES

A. COORDINATION: REVISE OR ADJUST AFFECTED WORK AS NECESSARY TO INTEGRATE WORK OF THE APPROVED SUBSTITUTIONS.

1.7 - SUBSTITUTIONS

A. SUBSTITUTIONS FOR CAUSE: SUBMIT REQUESTS FOR SUBSTITUTION IMMEDIATELY ON DISCOVERY OF NEED FOR CHANGE, BUT NOT LATER THAN 15 DAYS PRIOR TO TIME REQUIRED FOR PREPARATION AND REVIEW OF RELATED SUBMITTALS.

1. CONDITIONS: ARCHITECT WILL CONSIDER CONTRACTOR'S REQUEST FOR SUBSTITUTION WHEN THE FOLLOWING CONDITIONS ARE SATISFIED. IF THE FOLLOWING CONDITIONS ARE NOT SATISFIED, ARCHITECT WILL RETURN REQUESTS WITHOUT ACTION, EXCEPT TO RECORD NONCOMPLIANCE WITH THESE REQUIREMENTS:

a. REQUESTED SUBSTITUTION IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND WILL PRODUCE INDICATED RESULTS.
b. SUBSTITUTION REQUEST IS FULLY DOCUMENTED AND PROPERLY SUBMITTED.
c. REQUESTED SUBSTITUTION WILL NOT ADVERSELY AFFECT CONTRACTOR'S CONSTRUCTION SCHEDULE.
d. REQUESTED SUBSTITUTION HAS RECEIVED NECESSARY APPROVALS OF AUTHORITIES HAVING JURISDICTION.
e. REQUESTED SUBSTITUTION IS COMPATIBLE WITH OTHER PORTIONS OF THE WORK.
f. REQUESTED SUBSTITUTION HAS BEEN COORDINATED WITH OTHER PORTIONS OF THE WORK.
g. REQUESTED SUBSTITUTION PROVIDES SPECIFIED WARRANTY.
h. IF REQUESTED SUBSTITUTION INVOLVES MORE THAN ONE CONTRACTOR, REQUESTED SUBSTITUTION HAS BEEN COORDINATED WITH OTHER PORTIONS OF THE WORK, IS UNIFORM AND CONSISTENT, IS COMPATIBLE WITH OTHER PRODUCTS, AND IS ACCEPTABLE TO ALL CONTRACTORS INVOLVED.

B. SUBSTITUTIONS FOR CONVENIENCE: NOT ALLOWED.

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE PROVISIONS FOR COORDINATING CONSTRUCTION OPERATIONS ON PROJECT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. GENERAL COORDINATION PROCEDURES.
2. RFIS.
3. PROJECT MEETINGS.

B. EACH CONTRACTOR SHALL PARTICIPATE IN COORDINATION REQUIREMENTS. CERTAIN AREAS OF RESPONSIBILITY ARE ASSIGNED TO A SPECIFIC CONTRACTOR.

1.3 - DEFINITIONS

A. RFI: REQUEST FOR INFORMATION. REQUEST FROM OWNER, CONSTRUCTION MANAGER, ARCHITECT, OR CONTRACTOR SEEKING INFORMATION REQUIRED BY OR CLARIFICATIONS OF THE CRITERIA & CONTRACT DOCUMENTS.

1.4 - GENERAL COORDINATION PROCEDURES

A. COORDINATION: COORDINATE CONSTRUCTION OPERATIONS INCLUDED IN DIFFERENT SECTIONS OF THE SPECIFICATIONS TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. COORDINATE CONSTRUCTION OPERATIONS INCLUDED IN DIFFERENT SECTIONS THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION.

1. SCHEDULE CONSTRUCTION OPERATIONS IN SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS OWN INSTALLATION.
2. COORDINATE INSTALLATION OF DIFFERENT COMPONENTS TO ENSURE MAXIMUM PERFORMANCE AND ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, AND REPAIR.
3. MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.

1.5 - REQUEST FOR INFORMATION (RFI)

A. GENERAL: IMMEDIATELY ON DISCOVERY OF THE NEED FOR ADDITIONAL INFORMATION, CLARIFICATION, OR INTERPRETATION OF THE CRITERIA OR CONTRACT DOCUMENTS, OWNER, ARCHITECT/ENGINEER, OR CONTRACTOR SHALL PREPARE AND SUBMIT AN RFI IN THE FORM SPECIFIED.

1. LA-Z-BOY CORPORATE WILL RETURN WITHOUT RESPONSE THOSE RFIS SUBMITTED TO LA-Z-BOY CORPORATE BY ENTITIES OTHER THAN THE OWNER, ARCHITECT/ENGINEER, OR CONTRACTOR.
2. COORDINATE AND SUBMIT RFIS IN A PROMPT MANNER SO AS TO AVOID PROJECT DELAYS.

B. CONTENT OF THE RFI: INCLUDE A DETAILED, LEGIBLE DESCRIPTION OF ITEM NEEDING INFORMATION OR INTERPRETATION AND THE FOLLOWING:

1. PROJECT NAME.
2. PROJECT NUMBER.
3. DATE.
4. NAME OF OWNER, ARCHITECT/ENGINEER, OR CONTRACTOR.
5. RFI NUMBER, NUMBERED SEQUENTIALLY.
6. RFI SUBJECT.
7. SPECIFICATION SECTION NUMBER AND TITLE AND RELATED PARAGRAPHS, AS APPROPRIATE.
8. DRAWING NUMBER AND DETAIL REFERENCES, AS APPROPRIATE.
9. CONTRACTOR'S SUGGESTED RESOLUTION. IF CONTRACTOR'S SUGGESTED RESOLUTION IMPACTS THE CONTRACT TIME OR THE CONTRACT SUM, CONTRACTOR SHALL STATE IMPACT IN THE RFI.
10. CONTRACTOR'S SIGNATURE.
11. RFI FORMS: AIA DOCUMENT G716 OR APPROVED SIMILAR FORMAT. RFI FORM SHALL BE ELECTRONIC FILES IN PDF FORMAT. ATTACHMENTS SHALL BE ELECTRONIC FILES IN PDF FORMAT.

C. LA-Z-BOY CORPORATE ACTION: LA-Z-BOY CORPORATE WILL REVIEW EACH RFI, DETERMINE ACTION REQUIRED, AND RESPOND. ALLOW SEVEN WORKING DAYS FOR ARCHITECT'S RESPONSE FOR EACH RFI. RFIS RECEIVED BY LA-Z-BOY CORPORATE AFTER 1:00 P.M. WILL BE CONSIDERED AS RECEIVED THE NEXT WORKING DAY.

1. THE FOLLOWING OWNER, A/E, CONTRACTOR-GENERATED RFIS WILL BE RETURNED WITHOUT ACTION:

a. REQUESTS FOR APPROVAL OF SUBMITTALS.
b. REQUESTS FOR APPROVAL OF SUBSTITUTIONS.
c. REQUESTS FOR APPROVAL OF CONTRACTOR'S MEANS AND METHODS.
d. REQUESTS FOR COORDINATION INFORMATION ALREADY INDICATED IN THE CRITERIA & CONTRACT DOCUMENTS.
e. INCOMPLETE RFIS OR INACCURATELY PREPARED RFIS.

2. LA-Z-BOY CORPORATE'S ACTION MAY INCLUDE A REQUEST FOR ADDITIONAL INFORMATION, IN WHICH CASE LA-Z-BOY CORPORATE'S TIME FOR RESPONSE WILL DATE FROM TIME OF RECEIPT BY LA-Z-BOY CORPORATE OF ADDITIONAL INFORMATION.

1.6 - PROJECT MEETINGS

A. GENERAL: LA-Z-BOY CORPORATE WILL SCHEDULE AND CONDUCT DIGITAL MEETINGS AND CONFERENCES UNLESS OTHERWISE INDICATED.

1. ATTENDEES: AS DESIGNATED BY LA-Z-BOY CORPORATE.

B. PROJECT CLOSEOUT CONFERENCE: OWNER OR CONTRACTOR SHALL SCHEDULE AND CONDUCT A PROJECT CLOSEOUT CONFERENCE, AT A TIME CONVENIENT TO LA-Z-BOY CORPORATE, OWNER AND ARCHITECT/ENGINEER, BUT NO LATER THAN 15 DAYS PRIOR TO THE SCHEDULED DATE OF SUBSTANTIAL COMPLETION.

C. PROGRESS MEETINGS: CONDUCT PROGRESS MEETINGS AT REGULAR INTERVALS.

D. COORDINATION MEETINGS: CONDUCT PROJECT COORDINATION MEETINGS AT REGULAR INTERVALS. PROJECT COORDINATION MEETINGS ARE IN ADDITION TO SPECIFIC MEETINGS HELD FOR OTHER PURPOSES, SUCH AS PROGRESS MEETINGS AND PRE-INSTALLATION CONFERENCES.

SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR DOCUMENTING THE PROGRESS OF CONSTRUCTION DURING PERFORMANCE OF THE WORK, INCLUDING THE FOLLOWING:

1. CONTRACTOR'S CONSTRUCTION SCHEDULE.

1.3 - INFORMATIONAL SUBMITTALS

A. FORMAT FOR SUBMITTALS: SUBMIT REQUIRED SUBMITTALS IN THE FOLLOWING FORMAT:

1. PDF FILE.

B. STARTUP CONSTRUCTION SCHEDULE.

C. CONTRACTOR'S CONSTRUCTION SCHEDULE: INITIAL SCHEDULE, OF SIZE REQUIRED TO DISPLAY ENTIRE SCHEDULE FOR ENTIRE CONSTRUCTION PERIOD.

D. CONSTRUCTION SCHEDULE UPDATING REPORTS: SUBMIT IMMEDIATELY UPON CHANGE OF CONSTRUCTION SCHEDULE.

E. DAILY CONSTRUCTION REPORTS: SUBMIT AT WEEKLY INTERVALS.

F. SITE CONDITION REPORTS: SUBMIT AT TIME OF DISCOVERY OF DIFFERING CONDITIONS.

G. UNUSUAL EVENT REPORTS: SUBMIT AT TIME OF UNUSUAL EVENT.

1.4 - CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

A. COMPUTER SCHEDULING SOFTWARE: PREPARE SCHEDULES USING CURRENT VERSION OF A PROGRAM THAT HAS BEEN DEVELOPED SPECIFICALLY TO MANAGE CONSTRUCTION SCHEDULES.

1. USE PRIMAVERA OR CONTRACTORS STANDARD OPERATING SYSTEM.

B. MILESTONES: INCLUDE MILESTONES INDICATED IN THE CRITERIA AND CONTRACT DOCUMENTS IN SCHEDULE, INCLUDING, BUT NOT LIMITED TO, THE NOTICE TO PROCEED, SUBSTANTIAL COMPLETION, AND FINAL COMPLETION.

C. CONTRACTOR'S CONSTRUCTION SCHEDULE UPDATING: AT REGULAR AND TIMELY INTERVALS, UPDATE SCHEDULE TO REFLECT ACTUAL CONSTRUCTION PROGRESS AND ACTIVITIES. ISSUE SCHEDULE ONE WEEK BEFORE EACH REGULARLY SCHEDULED PROGRESS MEETING.

1. REVISE SCHEDULE IMMEDIATELY AFTER EACH MEETING OR OTHER ACTIVITY WHERE REVISIONS HAVE BEEN RECOGNIZED OR MADE. ISSUE UPDATED SCHEDULE CONCURRENTLY WITH THE REPORT OF EACH SUCH MEETING.

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR QUALITY ASSURANCE AND QUALITY CONTROL.

B. TESTING AND INSPECTION SERVICES ARE REQUIRED TO VERIFY COMPLIANCE WITH REQUIREMENTS SPECIFIED OR INDICATED. THESE SERVICES DO NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH THE CONTRACT DOCUMENT REQUIREMENTS.

1. SPECIFIC QUALITY-ASSURANCE AND QUALITY-CONTROL REQUIREMENTS FOR INDIVIDUAL WORK RESULTS ARE SPECIFIED IN THEIR RESPECTIVE SPECIFICATION SECTIONS. REQUIREMENTS IN INDIVIDUAL SECTIONS MAY ALSO COVER PRODUCTION OF STANDARD PRODUCTS.
2. SPECIFIED TESTS, INSPECTIONS, AND RELATED ACTIONS DO NOT LIMIT CONTRACTOR'S OTHER QUALITY-ASSURANCE AND QUALITY-CONTROL PROCEDURES THAT FACILITATE COMPLIANCE WITH THE CONTRACT DOCUMENT REQUIREMENTS.
3. REQUIREMENTS FOR CONTRACTOR TO PROVIDE QUALITY-ASSURANCE AND QUALITY-CONTROL SERVICES REQUIRED BY LA-Z-BOY CORPORATE, ARCHITECT, OWNER, OR AUTHORITIES HAVING JURISDICTION ARE NOT LIMITED BY PROVISIONS OF THIS SECTION.
4. SPECIFIC TEST AND INSPECTION REQUIREMENTS ARE NOT SPECIFIED IN THIS SECTION.

1.3 - DELEGATED-DESIGN SERVICES

A. PERFORMANCE AND DESIGN CRITERIA: WHERE PROFESSIONAL DESIGN SERVICES OR CERTIFICATIONS BY A DESIGN PROFESSIONAL ARE SPECIFICALLY REQUIRED OF OWNER AND/OR CONTRACTOR BY THE CRITERIA AND CONTRACT DOCUMENTS, PROVIDE PRODUCTS AND SYSTEMS COMPLYING WITH SPECIFIC PERFORMANCE AND DESIGN CRITERIA INDICATED.

1. IF CRITERIA INDICATED ARE NOT SUFFICIENT TO PERFORM SERVICES OR CERTIFICATION REQUIRED, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO LA-Z-BOY CORPORATE.

1.4 - CONFLICTING REQUIREMENTS

A. CONFLICTING STANDARDS AND OTHER REQUIREMENTS: IF COMPLIANCE WITH TWO OR MORE STANDARDS OR REQUIREMENTS ARE SPECIFIED AND THE STANDARDS OR REQUIREMENTS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE MOST STRINGENT REQUIREMENT. REFER CONFLICTING REQUIREMENTS THAT ARE DIFFERENT, BUT APPARENTLY EQUAL, TO LA-Z-BOY CORPORATE FOR DIRECTION BEFORE PROCEEDING.

B. MINIMUM QUANTITY OR QUALITY LEVELS: THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF REQUIREMENTS. REFER UNCERTAINTIES TO LA-Z-BOY CORPORATE FOR A DECISION BEFORE PROCEEDING.

1.5 - ACTION SUBMITTALS

A. DELEGATED-DESIGN SERVICES SUBMITTAL: SUBMIT PLANS AND SPECIFICATIONS FOR THE PROJECT AS PREPARED THE RESPONSIBLE DESIGN PROFESSIONAL. PLANS AND SPECIFICATIONS SHALL INDICATE THAT THE PROJECT DESIGN IS IN COMPLIANCE WITH PERFORMANCE AND DESIGN CRITERIA INDICATED BY LA-Z-BOY CORPORATE.

1.6 - INFORMATIONAL SUBMITTALS

A. CONTRACTOR'S QUALITY-CONTROL PLAN: FOR QUALITY-ASSURANCE AND QUALITY-CONTROL ACTIVITIES AND RESPONSIBILITIES.

B. CONTRACTOR'S STATEMENT OF RESPONSIBILITY: WHEN REQUIRED BY AUTHORITIES HAVING JURISDICTION, SUBMIT COPY OF WRITTEN STATEMENT OF RESPONSIBILITY SUBMITTED TO AUTHORITIES HAVING JURISDICTION BEFORE STARTING WORK ON THE FOLLOWING SYSTEMS:

1. STATE AND LOCAL BUILDING CODE "SPECIAL INSPECTIONS."

C. REPORTS: PREPARE AND SUBMIT CERTIFIED WRITTEN REPORTS AND DOCUMENTS AS SPECIFIED.

D. PERMITS, LICENSES, AND CERTIFICATES: FOR LA-Z-BOY CORPORATE'S RECORD, SUBMIT COPIES OF PERMITS, LICENSES, CERTIFICATIONS, INSPECTION REPORTS, RELEASES, JURISDICTIONAL SETTLEMENTS, NOTICES, RECEIPTS FOR FEE PAYMENTS, JUDGMENTS, CORRESPONDENCE, RECORDS, AND SIMILAR DOCUMENTS ESTABLISHED FOR COMPLIANCE WITH STANDARDS AND REGULATIONS BEARING ON PERFORMANCE OF THE WORK.

1.7 - REPORTS AND DOCUMENTS

A. TEST AND INSPECTION REPORTS: PREPARE AND SUBMIT CERTIFIED WRITTEN REPORTS SPECIFIED IN OTHER SECTIONS. INCLUDE THE FOLLOWING:

1. DATE OF ISSUE.
2. PROJECT TITLE AND NUMBER.
3. NAME, ADDRESS, TELEPHONE NUMBER, AND EMAIL ADDRESS OF TESTING AGENCY.
4. DATES AND LOCATIONS OF SAMPLES AND TESTS OR INSPECTIONS.
5. NAMES OF INDIVIDUALS MAKING TESTS AND INSPECTIONS.
6. DESCRIPTION OF THE WORK AND TEST AND INSPECTION METHOD.
7. IDENTIFICATION OF PRODUCT AND SPECIFICATION SECTION.
8. COMPLETE TEST OR INSPECTION DATA.
9. TEST AND INSPECTION RESULTS AND AN INTERPRETATION OF TEST RESULTS.
10. RECORD OF TEMPERATURE AND WEATHER CONDITIONS AT TIME OF SAMPLE TAKING AND TESTING AND INSPECTION.
11. COMMENTS OR PROFESSIONAL OPINION ON WHETHER TESTED OR INSPECTED WORK COMPLIES WITH THE CONTRACT DOCUMENT REQUIREMENTS.
12. NAME AND SIGNATURE OF LABORATORY INSPECTOR.
13. RECOMMENDATIONS ON RETESTING AND RE-INSPECTING.

B. MANUFACTURER'S TECHNICAL REPRESENTATIVE'S FIELD REPORTS: PREPARE WRITTEN INFORMATION DOCUMENTING MANUFACTURER'S TECHNICAL REPRESENTATIVE'S TESTS AND INSPECTIONS SPECIFIED IN OTHER SECTIONS. INCLUDE THE FOLLOWING:

1. NAME, ADDRESS, TELEPHONE NUMBER, AND EMAIL ADDRESS OF TECHNICAL REPRESENTATIVE MAKING REPORT.
2. STATEMENT ON CONDITION OF SUBSTRATES AND THEIR ACCEPTABILITY FOR INSTALLATION OF PRODUCT.
3. STATEMENT THAT PRODUCTS AT PROJECT SITE COMPLY WITH REQUIREMENTS.
4. SUMMARY OF INSTALLATION PROCEDURES BEING FOLLOWED, WHETHER THEY COMPLY WITH REQUIREMENTS AND, IF NOT, WHAT CORRECTIVE ACTION WAS TAKEN.
5. RESULTS OF OPERATIONAL AND OTHER TESTS AND A STATEMENT OF WHETHER OBSERVED PERFORMANCE COMPLIES WITH REQUIREMENTS.
6. STATEMENT WHETHER CONDITIONS, PRODUCTS, AND INSTALLATION WILL AFFECT WARRANTY.
7. OTHER REQUIRED ITEMS INDICATED IN INDIVIDUAL SPECIFICATION SECTIONS.

C. FACTORY-AUTHORIZED SERVICE REPRESENTATIVE'S REPORTS: PREPARE WRITTEN INFORMATION DOCUMENTING MANUFACTURER'S FACTORY-AUTHORIZED SERVICE REPRESENTATIVE'S TESTS AND INSPECTIONS SPECIFIED IN OTHER SECTIONS. INCLUDE THE FOLLOWING:

1. NAME, ADDRESS, TELEPHONE NUMBER, AND EMAIL ADDRESS OF FACTORY-AUTHORIZED SERVICE REPRESENTATIVE MAKING REPORT.
2. STATEMENT THAT EQUIPMENT COMPLIES WITH REQUIREMENTS.
3. RESULTS OF OPERATIONAL AND OTHER TESTS AND A STATEMENT OF WHETHER OBSERVED PERFORMANCE COMPLIES WITH REQUIREMENTS.
4. STATEMENT WHETHER CONDITIONS, PRODUCTS, AND INSTALLATION WILL AFFECT WARRANTY.
5. OTHER REQUIRED ITEMS INDICATED IN INDIVIDUAL SPECIFICATION SECTIONS.

1.8 - QUALITY ASSURANCE

A. GENERAL: QUALIFICATIONS PARAGRAPHS IN THIS ARTICLE ESTABLISH THE MINIMUM QUALIFICATION LEVELS REQUIRED; INDIVIDUAL SPECIFICATION SECTIONS SPECIFY ADDITIONAL REQUIREMENTS.

B. MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING PRODUCTS OR SYSTEMS SIMILAR TO THOSE INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS WELL AS SUFFICIENT PRODUCTION CAPACITY TO PRODUCE REQUIRED UNITS. AS APPLICABLE, PROCURE PRODUCTS FROM MANUFACTURERS ABLE TO MEET QUALIFICATION REQUIREMENTS, WARRANTY REQUIREMENTS, AND TECHNICAL OR FACTORY-AUTHORIZED SERVICE REPRESENTATIVE REQUIREMENTS.

C. FABRICATOR QUALIFICATIONS: A FIRM EXPERIENCED IN PRODUCING PRODUCTS SIMILAR TO THOSE INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS WELL AS SUFFICIENT PRODUCTION CAPACITY TO PRODUCE REQUIRED UNITS.

D. INSTALLER QUALIFICATIONS: A FIRM OR INDIVIDUAL EXPERIENCED IN INSTALLING, ERECTING, APPLYING, OR ASSEMBLING WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT, WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

E. PROFESSIONAL ENGINEER QUALIFICATIONS: A PROFESSIONAL ENGINEER WHO IS LEGALLY QUALIFIED TO PRACTICE IN JURISDICTION WHERE PROJECT IS LOCATED AND WHO IS EXPERIENCED IN PROVIDING ENGINEERING SERVICES OF THE KIND INDICATED. ENGINEERING SERVICES ARE DEFINED AS THOSE PERFORMED FOR INSTALLATIONS OF THE SYSTEM, ASSEMBLY, OR PRODUCT THAT ARE SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THOSE INDICATED FOR THIS PROJECT.

F. SPECIALISTS: CERTAIN SPECIFICATION SECTIONS REQUIRE THAT SPECIFIC CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY ENTITIES WHO ARE RECOGNIZED EXPERTS IN THOSE OPERATIONS. SPECIALISTS SHALL SATISFY QUALIFICATION REQUIREMENTS INDICATED AND SHALL BE ENGAGED FOR THE ACTIVITIES INDICATED.

1. REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION SHALL SUPERSEDE REQUIREMENTS FOR SPECIALISTS.

G. TESTING AGENCY QUALIFICATIONS: AN NRTL, AN NVLAP, OR AN INDEPENDENT AGENCY WITH THE EXPERIENCE AND CAPABILITY TO CONDUCT TESTING AND INSPECTION INDICATED, AS DOCUMENTED ACCORDING TO ASTM E 329; AND WITH ADDITIONAL QUALIFICATIONS SPECIFIED IN INDIVIDUAL SECTIONS; AND, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION, THAT IS ACCEPTABLE TO AUTHORITIES.

H. MANUFACTURER'S TECHNICAL REPRESENTATIVE QUALIFICATIONS: AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER WHO IS TRAINED AND APPROVED BY MANUFACTURER TO OBSERVE AND INSPECT INSTALLATION OF MANUFACTURER'S PRODUCTS THAT ARE SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THOSE INDICATED FOR THIS PROJECT.

I. FACTORY-AUTHORIZED SERVICE REPRESENTATIVE QUALIFICATIONS: AN AUTHORIZED REPRESENTATIVE OF MANUFACTURER WHO IS TRAINED AND APPROVED BY MANUFACTURER TO INSPECT INSTALLATION OF MANUFACTURER'S PRODUCTS THAT ARE SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THOSE INDICATED FOR THIS PROJECT.

1.9 - QUALITY CONTROL

A. CONTRACTOR RESPONSIBILITIES: TESTS AND INSPECTIONS ARE THE CONTRACTOR'S RESPONSIBILITY. PERFORM ADDITIONAL QUALITY-CONTROL ACTIVITIES, WHETHER SPECIFIED OR NOT, TO VERIFY AND DOCUMENT THAT THE WORK COMPLIES WITH REQUIREMENTS.

1. UNLESS OTHERWISE INDICATED, PROVIDE QUALITY-CONTROL SERVICES SPECIFIED AND THOSE REQUIRED BY AUTHORITIES HAVING JURISDICTION. PERFORM QUALITY-CONTROL SERVICES REQUIRED OF CONTRACTOR BY AUTHORITIES HAVING JURISDICTION, WHETHER SPECIFIED OR NOT.
2. ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM QUALITY-CONTROL SERVICES.
3. WHERE QUALITY-CONTROL SERVICES ARE INDICATED AS CONTRACTOR'S RESPONSIBILITY, SUBMIT A CERTIFIED WRITTEN REPORT, IN DUPLICATE, OF EACH QUALITY-CONTROL SERVICE.
4. TESTING AND INSPECTION REQUESTED BY CONTRACTOR AND NOT REQUIRED BY THE CONTRACT DOCUMENTS ARE CONTRACTOR'S RESPONSIBILITY.
5. SUBMIT ADDITIONAL COPIES OF EACH WRITTEN REPORT DIRECTLY TO AUTHORITIES HAVING JURISDICTION, WHEN THEY SO DIRECT.

B. RETESTING/RE-INSPECTING: REGARDLESS OF WHETHER ORIGINAL TESTS OR INSPECTIONS WERE CONTRACTOR'S RESPONSIBILITY, PROVIDE QUALITY-CONTROL SERVICES, INCLUDING RETESTING AND RE-INSPECTING, FOR CONSTRUCTION THAT REPLACED WORK THAT FAILED TO COMPLY WITH THE CONTRACT DOCUMENTS.

C. TESTING AGENCY RESPONSIBILITIES: COOPERATE WITH LA-Z-BOY CORPORATE, ARCHITECT/ENGINEER OF RECORD, OWNER, AND CONTRACTOR IN PERFORMANCE OF DUTIES. PROVIDE QUALIFIED PERSONNEL TO PERFORM REQUIRED TESTS AND INSPECTIONS.

1. NOTIFY ARCHITECT AND CONTRACTOR PROMPTLY OF IRREGULARITIES OR DEFICIENCIES OBSERVED IN THE WORK DURING PERFORMANCE OF ITS SERVICES.
2. DETERMINE THE LOCATIONS FROM WHICH TEST SAMPLES WILL BE TAKEN AND IN WHICH IN-SITU TESTS ARE CONDUCTED.
3. CONDUCT AND INTERPRET TESTS AND INSPECTIONS AND STATE IN EACH REPORT WHETHER TESTED AND INSPECTED WORK COMPLIES WITH OR DEVIATES FROM REQUIREMENTS.
4. SUBMIT A CERTIFIED WRITTEN REPORT, IN DUPLICATE, OF EACH TEST, INSPECTION, AND SIMILAR QUALITY-CONTROL SERVICE THROUGH CONTRACTOR.
5. DO NOT RELEASE, REVOKE, ALTER, OR INCREASE THE CONTRACT DOCUMENT REQUIREMENTS OR APPROVE OR ACCEPT ANY PORTION OF THE WORK.
6. DO NOT PERFORM DUTIES OF CONTRACTOR.

D. MANUFACTURER'S FIELD SERVICES: WHERE INDICATED, ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT FIELD-ASSEMBLED COMPONENTS AND EQUIPMENT INSTALLATION, INCLUDING SERVICE CONNECTIONS. REPORT RESULTS IN WRITING AS SPECIFIED IN SECTION 013300 "SUBMITTAL PROCEDURES."

E. MANUFACTURER'S TECHNICAL SERVICES: WHERE INDICATED, ENGAGE A MANUFACTURER'S TECHNICAL REPRESENTATIVE TO OBSERVE AND INSPECT THE WORK. MANUFACTURER'S TECHNICAL REPRESENTATIVE'S SERVICES INCLUDE PARTICIPATION IN PRE-INSTALLATION CONFERENCES, EXAMINATION OF SUBSTRATES AND CONDITIONS, VERIFICATION OF MATERIALS, OBSERVATION OF INSTALLER ACTIVITIES, INSPECTION OF COMPLETED PORTIONS OF THE WORK, AND SUBMITTAL OF WRITTEN REPORTS.

F. COORDINATION: COORDINATE SEQUENCE OF ACTIVITIES TO ACCOMMODATE REQUIRED QUALITY-ASSURANCE AND QUALITY-CONTROL SERVICES WITH A MINIMUM OF DELAY AND TO AVOID NECESSITY OF REMOVING AND REPLACING CONSTRUCTION TO ACCOMMODATE TESTING AND INSPECTION.

1. SCHEDULE TIMES FOR TESTS, INSPECTIONS, OBTAINING SAMPLES, AND SIMILAR ACTIVITIES.

SECTION 014200 - REFERENCES

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ARCHITECTURAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A0.1

BUILDING SHELL CONSTRUCTION SET

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SECTION 014200 - REFERENCES (CONTINUED)

1.2 - DEFINITIONS

A. GENERAL: BASIC CONTRACT DEFINITIONS ARE INCLUDED IN THE CONDITIONS OF THE CONTRACT.

B. "APPROVED": WHEN USED TO CONVEY ARCHITECT'S ACTION ON CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, "APPROVED" IS LIMITED TO ARCHITECT'S DUTIES AND RESPONSIBILITIES AS STATED IN THE CONDITIONS OF THE CONTRACT.

C. "DIRECTED": A COMMAND OR INSTRUCTION BY ARCHITECT. OTHER TERMS INCLUDING "REQUESTED," "AUTHORIZED," "SELECTED," "REQUIRED," AND "PERMITTED" HAVE THE SAME MEANING AS "DIRECTED."

D. "INDICATED": REQUIREMENTS EXPRESSED BY GRAPHIC REPRESENTATIONS OR IN WRITTEN FORM ON DRAWINGS, IN SPECIFICATIONS, AND IN OTHER CONTRACT DOCUMENTS. OTHER TERMS INCLUDING "SHOWN," "NOTED," "SCHEDULED," AND "SPECIFIED" HAVE THE SAME MEANING AS "INDICATED."

E. "REGULATIONS": LAWS, ORDINANCES, STATUTES, AND LAWFUL ORDERS ISSUED BY AUTHORITIES HAVING JURISDICTION, AND RULES, CONVENTIONS, AND AGREEMENTS WITHIN THE CONSTRUCTION INDUSTRY THAT CONTROL PERFORMANCE OF THE WORK.

F. "FURNISH": SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.

G. "INSTALL": UNLOAD, TEMPORARILY STORE, UNPACK, ASSEMBLE, ERECT, PLACE, ANCHOR, APPLY, WORK TO DIMENSION, FINISH, CURE, PROTECT, CLEAN, AND SIMILAR OPERATIONS AT PROJECT SITE.

H. "PROVIDE": FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

I. "PROJECT SITE": SPACE AVAILABLE FOR PERFORMING CONSTRUCTION ACTIVITIES. THE EXTENT OF PROJECT SITE IS SHOWN ON DRAWINGS AND MAY OR MAY NOT BE IDENTICAL WITH THE DESCRIPTION OF THE LAND ON WHICH PROJECT IS TO BE BUILT.

1.3 - INDUSTRY STANDARDS

A. APPLICABILITY OF STANDARDS: UNLESS THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABLE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME FORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS TO THE EXTENT REFERENCED. SUCH STANDARDS ARE MADE A PART OF THE CONTRACT DOCUMENTS BY REFERENCE.

B. PUBLICATION DATES: COMPLY WITH STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS UNLESS OTHERWISE INDICATED.

C. COPIES OF STANDARDS: EACH ENTITY ENGAGED IN CONSTRUCTION ON PROJECT SHOULD BE FAMILIAR WITH INDUSTRY STANDARDS APPLICABLE TO ITS CONSTRUCTION ACTIVITY. COPIES OF APPLICABLE STANDARDS ARE NOT BOUND WITH THE CONTRACT DOCUMENTS.

1. WHERE COPIES OF STANDARDS ARE NEEDED TO PERFORM A REQUIRED CONSTRUCTION ACTIVITY, OBTAIN COPIES DIRECTLY FROM PUBLICATION SOURCE.

1.4 - ABBREVIATIONS AND ACRONYMS

A. INDUSTRY ORGANIZATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES INDICATED IN GALE'S "ENCYCLOPEDIA OF ASSOCIATIONS: NATIONAL ORGANIZATIONS OF THE U.S." OR IN COLUMBIA BOOKS' "NATIONAL TRADE & PROFESSIONAL ASSOCIATIONS OF THE UNITED STATES."

B. INDUSTRY ORGANIZATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST. THIS INFORMATION IS SUBJECT TO CHANGE AND IS BELIEVED TO BE ACCURATE AS OF THE DATE OF THE CONTRACT DOCUMENTS.

1. AABC - ASSOCIATED AIR BALANCE COUNCIL; WWW.AABC.COM.
2. AASHTO - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS; WWW.TRANSPORTATION.ORG.
3. ACI - AMERICAN CONCRETE INSTITUTE; (FORMERLY: ACI INTERNATIONAL); WWW.CONCRETE.ORG
4. ACPA - AMERICAN CONCRETE PIPE ASSOCIATION; WWW.CONCRETE-PIPE.ORG.
5. AIA - AMERICAN INSTITUTE OF ARCHITECTS (THE); WWW.AIA.ORG.
6. AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION; WWW.AISC.ORG.
7. ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE; WWW.ANSI.ORG.
8. ASCE - AMERICAN SOCIETY OF CIVIL ENGINEERS; WWW.ASCE.ORG.
9. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS; WWW.ASHRAE.ORG.
10. ASME - ASME INTERNATIONAL; (AMERICAN SOCIETY OF MECHANICAL ENGINEERS); WWW.ASME.ORG.
11. ASTM - ASTM INTERNATIONAL; WWW.ASTM.ORG.
12. AWS - AMERICAN WELDING SOCIETY; WWW.AWS.ORG.
13. AWWA - AMERICAN WATER WORKS ASSOCIATION; WWW.AWWA.ORG.
14. BHMA - BUILDERS HARDWARE MANUFACTURERS ASSOCIATION; WWW.BUILDERSHARDWARE.COM.
15. BIA - BRICK INDUSTRY ASSOCIATION (THE); WWW.GOBRICK.COM.
16. CFSEI - COLD-FORMED STEEL ENGINEERS INSTITUTE; WWW.CFSEI.ORG.
17. CRSI - CONCRETE REINFORCING STEEL INSTITUTE; WWW.CRSI.ORG.
18. CSI - CONSTRUCTION SPECIFICATIONS INSTITUTE (THE); WWW.CSINET.ORG.
19. HMMA - HOLLOW METAL MANUFACTURERS ASSOCIATION; (SEE NAAMM).
20. IES - ILLUMINATING ENGINEERING SOCIETY; (FORMERLY: ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA); WWW.IES.ORG.
21. IESNA - ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA; (SEE IES).
22. IEST - INSTITUTE OF ENVIRONMENTAL SCIENCES AND TECHNOLOGY; WWW.IEST.ORG.
23. IGMA - INSULATING GLASS MANUFACTURERS ALLIANCE; WWW.IGMAONLINE.ORG.
24. MPI - MASTER PAINTERS INSTITUTE; WWW.PAINTINFO.COM.
25. NCMA - NATIONAL CONCRETE MASONRY ASSOCIATION; WWW.NCMA.ORG.
26. NEBB - NATIONAL ENVIRONMENTAL BALANCING BUREAU; WWW.NEBB.ORG.
27. NECA - NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION; WWW.NECANET.ORG.
28. NETA - INTERNATIONAL ELECTRICAL TESTING ASSOCIATION; WWW.NETAWORLD.ORG.
29. NFHS - NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS; WWW.NFHS.ORG.
30. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION; WWW.NFPA.ORG.
31. NRMCA - NATIONAL READY MIXED CONCRETE ASSOCIATION; WWW.NRMCA.ORG.
32. NSPE - NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS; WWW.NSPE.ORG.
33. SDI - STEEL DECK INSTITUTE; WWW.SDI.ORG.
34. SJI - STEEL JOIST INSTITUTE; WWW.STEELJOIST.ORG.
35. SMACNA - SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION; WWW.SMACNA.ORG.
36. TCNA - TILE COUNCIL OF NORTH AMERICA, INC.; WWW.TILEUSA.COM.
37. UL - UNDERWRITERS LABORATORIES INC.; HTTP://WWW.UL.COM.

C. CODE AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST. THIS INFORMATION IS BELIEVED TO BE ACCURATE AS OF THE DATE OF THE CONTRACT DOCUMENTS.

1. ICC - INTERNATIONAL CODE COUNCIL; WWW.ICCSAFE.ORG.
2. ICC-ES - ICC EVALUATION SERVICE, LLC; WWW.ICC-ES.ORG.

D. FEDERAL GOVERNMENT AGENCIES: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE ENTITIES IN THE FOLLOWING LIST. INFORMATION IS SUBJECT TO CHANGE AND IS UP TO DATE AS OF THE DATE OF THE CONTRACT DOCUMENTS.

1. COE - ARMY CORPS OF ENGINEERS; WWW.USACE.ARMY.MIL.
2. DOE - DEPARTMENT OF ENERGY; WWW.ENERGY.GOV.
3. EPA - ENVIRONMENTAL PROTECTION AGENCY; WWW.EPA.GOV.
4. OSHA - OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION; WWW.OSHA.GOV.

E. STANDARDS AND REGULATIONS: WHERE ABBREVIATIONS AND ACRONYMS ARE USED IN SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THEY SHALL MEAN THE RECOGNIZED NAME OF THE STANDARDS AND REGULATIONS IN THE FOLLOWING LIST. THIS INFORMATION IS SUBJECT TO CHANGE AND IS BELIEVED TO BE ACCURATE AS OF THE DATE OF THE CONTRACT DOCUMENTS.

1. CFR - CODE OF FEDERAL REGULATIONS; AVAILABLE FROM GOVERNMENT PRINTING OFFICE; WWW.GPO.GOV/FDSYS.

SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR SELECTION OF PRODUCTS FOR USE IN PROJECT; PRODUCT DELIVERY, STORAGE, AND HANDLING; MANUFACTURERS' STANDARD WARRANTIES ON PRODUCTS; SPECIAL WARRANTIES; AND COMPARABLE PRODUCTS.

B. RELATED REQUIREMENTS:

1. SECTION 012500 "SUBSTITUTION PROCEDURES" FOR REQUESTS FOR SUBSTITUTIONS.
2. SECTION 014200 "REFERENCES" FOR APPLICABLE INDUSTRY STANDARDS FOR PRODUCTS SPECIFIED.

1.3 - DEFINITIONS

A. PRODUCTS: ITEMS OBTAINED FOR INCORPORATING INTO THE WORK, WHETHER PURCHASED FOR PROJECT OR TAKEN FROM PREVIOUSLY PURCHASED STOCK. THE TERM "PRODUCT" INCLUDES THE TERMS "MATERIAL," "EQUIPMENT," "SYSTEM," AND TERMS OF SIMILAR INTENT.

1. NAMED PRODUCTS: ITEMS IDENTIFIED BY MANUFACTURER'S PRODUCT NAME, INCLUDING MAKE OR MODEL NUMBER OR OTHER DESIGNATION SHOWN OR LISTED IN MANUFACTURER'S PUBLISHED PRODUCT LITERATURE THAT IS CURRENT AS OF DATE OF THE CONTRACT DOCUMENTS.
2. NEW PRODUCTS: ITEMS THAT HAVE NOT PREVIOUSLY BEEN INCORPORATED INTO ANOTHER PROJECT OR FACILITY. PRODUCTS SALVAGED OR RECYCLED FROM OTHER PROJECTS ARE NOT CONSIDERED NEW PRODUCTS.
3. COMPARABLE PRODUCT: PRODUCT THAT IS DEMONSTRATED AND APPROVED BY LA-Z-BOY CORPORATE THROUGH SUBMITTAL PROCESS TO HAVE THE INDICATED QUALITIES RELATED TO TYPE, FUNCTION, DIMENSION, IN-SERVICE PERFORMANCE, PHYSICAL PROPERTIES, APPEARANCE, AND OTHER CHARACTERISTICS THAT EQUAL OR EXCEED THOSE OF SPECIFIED PRODUCT.

B. BASIS-OF-DESIGN PRODUCT SPECIFICATION: A SPECIFICATION IN WHICH A SINGLE MANUFACTURER'S PRODUCT IS NAMED AND ACCOMPANIED BY THE WORDS "BASIS-OF-DESIGN PRODUCT," INCLUDING MAKE OR MODEL NUMBER OR OTHER DESIGNATION. IN ADDITION TO THE BASIS-OF-DESIGN PRODUCT DESCRIPTION, PRODUCT ATTRIBUTES AND CHARACTERISTICS MAY BE LISTED TO ESTABLISH THE SIGNIFICANT QUALITIES RELATED TO TYPE, FUNCTION, IN-SERVICE PERFORMANCE AND PHYSICAL PROPERTIES, WEIGHT, DIMENSION, DURABILITY, VISUAL CHARACTERISTICS, AND OTHER SPECIAL FEATURES AND REQUIREMENTS FOR PURPOSES OF EVALUATING COMPARABLE PRODUCTS OF ADDITIONAL MANUFACTURERS NAMED IN THE SPECIFICATION.

C. SUBJECT TO COMPLIANCE WITH REQUIREMENTS: WHERE THE PHRASE "SUBJECT TO COMPLIANCE WITH REQUIREMENTS" INTRODUCES A PRODUCT SELECTION PROCEDURE IN AN INDIVIDUAL SPECIFICATION SECTION, PROVIDE PRODUCTS QUALIFIED UNDER THE SPECIFIED PRODUCT PROCEDURE. IN THE EVENT THAT A NAMED PRODUCT OR PRODUCT BY A NAMED MANUFACTURER DOES NOT MEET THE OTHER REQUIREMENTS OF THE SPECIFICATIONS, SELECT ANOTHER NAMED PRODUCT OR PRODUCT FROM ANOTHER NAMED MANUFACTURER THAT DOES MEET THE REQUIREMENTS OF THE SPECIFICATIONS. SUBMIT A COMPARABLE PRODUCT REQUEST, IF APPLICABLE.

1.4 - ACTION SUBMITTALS

A. COMPARABLE PRODUCT REQUEST SUBMITTAL: SUBMIT REQUEST FOR CONSIDERATION OF EACH COMPARABLE PRODUCT. IDENTIFY BASIS-OF-DESIGN PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED. INCLUDE SPECIFICATION SECTION NUMBER AND TITLE AND DRAWING NUMBERS AND TITLES.

1. INCLUDE DATA TO INDICATE COMPLIANCE WITH THE REQUIREMENTS SPECIFIED IN "COMPARABLE PRODUCTS" ARTICLE.

2. LA-Z-BOY CORPORATE'S ACTION: IF NECESSARY, LA-Z-BOY CORPORATE WILL REQUEST ADDITIONAL INFORMATION OR DOCUMENTATION FOR EVALUATION WITHIN SEVEN DAYS OF RECEIPT OF A COMPARABLE PRODUCT REQUEST. LA-Z-BOY CORPORATE WILL NOTIFY CONTRACTOR OF APPROVAL OR REJECTION OF PROPOSED COMPARABLE PRODUCT REQUEST WITHIN 15 DAYS OF RECEIPT OF REQUEST, OR SEVEN DAYS OF RECEIPT OF ADDITIONAL INFORMATION OR DOCUMENTATION, WHICHEVER IS LATER.

   a. FORMS OF ACCEPTANCE: CHANGE ORDER, CONSTRUCTION CHANGE DIRECTIVE.

   b. USE PRODUCT SPECIFIED IF LA-Z-BOY CORPORATE DOES NOT ISSUE A DECISION ON USE OF A PROPOSED SUBSTITUTION WITHIN TIME ALLOCATED IS PROHIBITED.

B. BASIS-OF-DESIGN PRODUCT SPECIFICATION SUBMITTAL: COMPLY WITH REQUIREMENTS IN SECTION 012500 "SUBSTITUTION PROCEDURES." SHOW COMPLIANCE WITH REQUIREMENTS.

1.5 - QUALITY ASSURANCE

A. COMPATIBILITY OF OPTIONS: IF CONTRACTOR IS GIVEN OPTION OF SELECTING BETWEEN TWO OR MORE PRODUCTS FOR USE ON PROJECT, SELECT PRODUCT COMPATIBLE WITH PRODUCTS PREVIOUSLY SELECTED, EVEN IF PREVIOUSLY SELECTED PRODUCTS WERE ALSO OPTIONS.

1. EACH CONTRACTOR IS RESPONSIBLE FOR PROVIDING PRODUCTS AND CONSTRUCTION METHODS COMPATIBLE WITH PRODUCTS AND CONSTRUCTION METHODS OF OTHER CONTRACTORS.

2. IF A DISPUTE ARISES BETWEEN CONTRACTORS OVER CONCURRENTLY SELECTABLE BUT INCOMPATIBLE PRODUCTS, ARCHITECT WILL DETERMINE WHICH PRODUCTS SHALL BE USED.

B. IDENTIFICATION OF PRODUCTS: EXCEPT FOR REQUIRED LABELS AND OPERATING DATA, DO NOT ATTACH OR IMPRINT MANUFACTURER OR PRODUCT NAMES OR TRADEMARKS ON EXPOSED SURFACES OF PRODUCTS OR EQUIPMENT THAT WILL BE EXPOSED TO VIEW IN OCCUPIED SPACES OR ON THE EXTERIOR.

1. LABELS: LOCATE REQUIRED PRODUCT LABELS AND STAMPS ON A CONCEALED SURFACE, OR, WHERE REQUIRED FOR OBSERVATION FOLLOWING INSTALLATION, ON A VISUALLY ACCESSIBLE SURFACE THAT IS NOT CONSPICUOUS.
2. EQUIPMENT NAMEPLATES: PROVIDE A PERMANENT NAMEPLATE ON EACH ITEM OF SERVICE-CONNECTED OR POWER-OPERATED EQUIPMENT. LOCATE ON A VISUALLY ACCESSIBLE BUT INCONSPICUOUS SURFACE. INCLUDE INFORMATION ESSENTIAL FOR OPERATION, INCLUDING THE FOLLOWING:

   a. NAME OF PRODUCT AND MANUFACTURER.
   b. MODEL AND SERIAL NUMBER.
   c. CAPACITY.
   d. SPEED.
   e. RATINGS.

1.6 - PRODUCT DELIVERY, STORAGE, AND HANDLING

A. DELIVER, STORE, AND HANDLE PRODUCTS USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION, AND LOSS, INCLUDING THEFT AND VANDALISM. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

B. DELIVERY AND HANDLING:

1. SCHEDULE DELIVERY TO MINIMIZE LONG-TERM STORAGE AT PROJECT SITE AND TO PREVENT OVERCROWDING OF CONSTRUCTION SPACES.
2. COORDINATE DELIVERY WITH INSTALLATION TIME TO ENSURE MINIMUM HOLDING TIME FOR ITEMS THAT ARE FLAMMABLE, HAZARDOUS, EASILY DAMAGED, OR SENSITIVE TO DETERIORATION, THEFT, AND OTHER LOSSES.
3. DELIVER PRODUCTS TO PROJECT SITE IN AN UNDAMAGED CONDITION IN MANUFACTURER'S ORIGINAL SEALED CONTAINER OR OTHER PACKAGING SYSTEM, COMPLETE WITH LABELS AND INSTRUCTIONS FOR HANDLING, STORING, UNPACKING, PROTECTING, AND INSTALLING.
4. INSPECT PRODUCTS ON DELIVERY TO DETERMINE COMPLIANCE WITH THE CONTRACT DOCUMENTS AND TO DETERMINE THAT PRODUCTS ARE UNDAMAGED AND PROPERLY PROTECTED.

C. STORAGE:

1. STORE PRODUCTS TO ALLOW FOR INSPECTION AND MEASUREMENT OF QUANTITY OR COUNTING OF UNITS.
2. STORE MATERIALS IN A MANNER THAT WILL NOT ENDANGER PROJECT STRUCTURE.
3. STORE PRODUCTS THAT ARE SUBJECT TO DAMAGE BY THE ELEMENTS, UNDER COVER IN A WEATHERTIGHT ENCLOSURE ABOVE GROUND, WITH VENTILATION ADEQUATE TO PREVENT CONDENSATION.
4. PROTECT FOAM PLASTIC FROM EXPOSURE TO SUNLIGHT, EXCEPT TO EXTENT NECESSARY FOR PERIOD OF INSTALLATION AND CONCEALMENT.
5. COMPLY WITH PRODUCT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TEMPERATURE, HUMIDITY, VENTILATION, AND WEATHER-PROTECTION REQUIREMENTS FOR STORAGE.
6. PROTECT STORED PRODUCTS FROM DAMAGE AND LIQUIDS FROM FREEZING.
7. PROVIDE A SECURE LOCATION AND ENCLOSURE AT PROJECT SITE FOR STORAGE OF MATERIALS AND EQUIPMENT BY OWNER'S CONSTRUCTION FORCES. COORDINATE LOCATION WITH OWNER.

1.7 - PRODUCT WARRANTIES

A. WARRANTIES SPECIFIED IN OTHER SECTIONS SHALL BE IN ADDITION TO, AND RUN CONCURRENT WITH, OTHER WARRANTIES REQUIRED BY THE CONTRACT DOCUMENTS. MANUFACTURER'S DISCLAIMERS AND LIMITATIONS ON PRODUCT WARRANTIES DO NOT RELIEVE CONTRACTOR OF OBLIGATIONS UNDER REQUIREMENTS OF THE CONTRACT DOCUMENTS.

1. MANUFACTURER'S WARRANTY: WRITTEN WARRANTY FURNISHED BY INDIVIDUAL MANUFACTURER FOR A PARTICULAR PRODUCT AND SPECIFICALLY ENDORSED BY MANUFACTURER TO OWNER.
2. SPECIAL WARRANTY: WRITTEN WARRANTY REQUIRED BY THE CONTRACT DOCUMENTS TO PROVIDE SPECIFIC RIGHTS FOR LA-Z-BOY CORPORATE AND OWNER.

B. SPECIAL WARRANTIES: PREPARE A WRITTEN DOCUMENT THAT CONTAINS APPROPRIATE TERMS AND IDENTIFICATION, READY FOR EXECUTION.

1. MANUFACTURER'S STANDARD FORM: MODIFIED TO INCLUDE PROJECT-SPECIFIC INFORMATION AND PROPERLY EXECUTED.
2. SPECIFIED FORM: WHEN SPECIFIED FORMS ARE INCLUDED WITH THE SPECIFICATIONS, PREPARE A WRITTEN DOCUMENT USING INDICATED FORM PROPERLY EXECUTED.
3. SEE OTHER SECTIONS FOR SPECIFIC CONTENT REQUIREMENTS AND PARTICULAR REQUIREMENTS FOR SUBMITTING SPECIAL WARRANTIES.

C. SUBMITTAL TIME: COMPLY WITH REQUIREMENTS IN SECTION 017700 "CLOSEOUT PROCEDURES."

PART 2 - PRODUCTS

2.1 - PRODUCT SELECTION PROCEDURES

A. GENERAL PRODUCT REQUIREMENTS: PROVIDE PRODUCTS THAT COMPLY WITH THE CONTRACT DOCUMENTS, ARE UNDAMAGED AND, UNLESS OTHERWISE INDICATED, ARE NEW AT TIME OF INSTALLATION.

1. PROVIDE PRODUCTS COMPLETE WITH ACCESSORIES, TRIM, FINISH, FASTENERS, AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION AND INDICATED USE AND EFFECT.
2. STANDARD PRODUCTS: IF AVAILABLE, AND UNLESS CUSTOM PRODUCTS OR NONSTANDARD OPTIONS ARE SPECIFIED, PROVIDE STANDARD PRODUCTS OF TYPES THAT HAVE BEEN PRODUCED AND USED SUCCESSFULLY IN SIMILAR SITUATIONS ON OTHER PROJECTS.
3. LA-Z-BOY CORPORATE RESERVES THE RIGHT TO LIMIT SELECTION TO PRODUCTS WITH WARRANTIES MEETING REQUIREMENTS OF THE CONTRACT DOCUMENTS.
4. WHERE PRODUCTS ARE ACCOMPANIED BY THE TERM "AS SELECTED," LA-Z-BOY CORPORATE RESERVES THE RIGHT TO MAKE SELECTION.
5. DESCRIPTIVE, PERFORMANCE, AND REFERENCE STANDARD REQUIREMENTS IN THE SPECIFICATIONS ESTABLISH SALIENT CHARACTERISTICS OF PRODUCTS.
6. OR EQUAL: FOR PRODUCTS SPECIFIED BY NAME AND ACCOMPANIED BY THE TERM "OR EQUAL," OR "OR APPROVED EQUAL," OR "OR APPROVED," COMPLY WITH REQUIREMENTS IN "COMPARABLE PRODUCTS" ARTICLE TO OBTAIN APPROVAL FOR USE OF AN UNNAMED PRODUCT.

   a. SUBMIT ADDITIONAL DOCUMENTATION REQUIRED BY LA-Z-BOY CORPORATE IN ORDER TO ESTABLISH EQUIVALENCY OF PROPOSED PRODUCTS. EVALUATION OF "OR EQUAL" PRODUCT STATUS IS BY THE ARCHITECT, WHOSE DETERMINATION IS FINAL.

B. PRODUCT SELECTION PROCEDURES:

1. SOLE PRODUCT: WHERE SPECIFICATIONS NAME A SINGLE MANUFACTURER AND PRODUCT, PROVIDE THE NAMED PRODUCT THAT COMPLIES WITH REQUIREMENTS. COMPARABLE PRODUCTS OR SUBSTITUTIONS FOR CONTRACTOR'S CONVENIENCE WILL NOT BE CONSIDERED.

   a. SOLE PRODUCT MAY BE INDICATED BY THE PHRASE: "SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE FOLLOWING: …"

2. SOLE MANUFACTURER/SOURCE: WHERE SPECIFICATIONS NAME A SINGLE MANUFACTURER OR SOURCE, PROVIDE A PRODUCT BY THE NAMED MANUFACTURER OR SOURCE THAT COMPLIES WITH REQUIREMENTS. COMPARABLE PRODUCTS OR SUBSTITUTIONS FOR CONTRACTOR'S CONVENIENCE WILL NOT BE CONSIDERED.

   a. SOLE MANUFACTURER/SOURCE MAY BE INDICATED BY THE PHRASE: "SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING: …"

3. LIMITED LIST OF PRODUCTS: WHERE SPECIFICATIONS INCLUDE A LIST OF NAMES OF BOTH MANUFACTURERS AND PRODUCTS, PROVIDE ONE OF THE PRODUCTS LISTED THAT COMPLIES WITH REQUIREMENTS. COMPARABLE PRODUCTS OR SUBSTITUTIONS FOR CONTRACTOR'S CONVENIENCE WILL BE CONSIDERED UNLESS OTHERWISE INDICATED.

   a. LIMITED LIST OF PRODUCTS MAY BE INDICATED BY THE PHRASE: "SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:..."

4. BASIS-OF-DESIGN PRODUCT: WHERE SPECIFICATIONS NAME A PRODUCT, OR REFER TO A PRODUCT INDICATED ON DRAWINGS, AND INCLUDE A LIST OF MANUFACTURERS, PROVIDE THE SPECIFIED OR INDICATED PRODUCT OR A COMPARABLE PRODUCT BY ONE OF THE OTHER NAMED MANUFACTURERS. DRAWINGS AND SPECIFICATIONS INDICATE SIZES, PROFILES, DIMENSIONS, AND OTHER CHARACTERISTICS THAT ARE BASED ON THE PRODUCT NAMED. COMPLY WITH REQUIREMENTS IN "COMPARABLE PRODUCTS" ARTICLE FOR CONSIDERATION OF AN UNNAMED PRODUCT BY ONE OF THE OTHER NAMED MANUFACTURERS.

   a. FOR APPROVAL OF PRODUCTS BY UNNAMED MANUFACTURERS, COMPLY WITH REQUIREMENTS IN SECTION 012500 "SUBSTITUTION PROCEDURES" FOR SUBSTITUTIONS FOR CONVENIENCE.

C. VISUAL MATCHING SPECIFICATION: WHERE SPECIFICATIONS REQUIRE "MATCH LA-Z-BOY CORPORATE SAMPLE," PROVIDE A PRODUCT THAT COMPLIES WITH REQUIREMENTS AND MATCHES LA-Z-BOY CORPORATE'S SAMPLE. LA-Z-BOY CORPORATE'S DECISION WILL BE FINAL ON WHETHER A PROPOSED PRODUCT MATCHES.

1. IF NO PRODUCT AVAILABLE WITHIN SPECIFIED CATEGORY MATCHES AND COMPLIES WITH OTHER SPECIFIED REQUIREMENTS, COMPLY WITH REQUIREMENTS IN SECTION 012500 "SUBSTITUTION PROCEDURES" FOR PROPOSAL OF PRODUCT.

D. VISUAL SELECTION SPECIFICATION: WHERE SPECIFICATIONS INCLUDE THE PHRASE "AS SELECTED FROM MANUFACTURER'S FULL RANGE" OR SIMILAR PHRASE, SELECT A PRODUCT THAT COMPLIES WITH REQUIREMENTS. LA-Z-BOY CORPORATE WILL SELECT COLOR, GLOSS, PATTERN, DENSITY, OR TEXTURE FROM MANUFACTURER'S PRODUCT LINE THAT INCLUDES BOTH STANDARD AND PREMIUM ITEMS.

2.2 - COMPARABLE PRODUCTS

A. CONDITIONS FOR CONSIDERATION OF COMPARABLE PRODUCTS: LA-Z-BOY CORPORATE WILL CONSIDER CONTRACTOR'S REQUEST FOR COMPARABLE PRODUCT WHEN THE FOLLOWING CONDITIONS ARE SATISFIED. IF THE FOLLOWING CONDITIONS ARE NOT SATISFIED, LA-Z-BOY CORPORATE MAY RETURN REQUESTS WITHOUT ACTION, EXCEPT TO RECORD NONCOMPLIANCE WITH THESE REQUIREMENTS:

1. EVIDENCE THAT PROPOSED PRODUCT DOES NOT REQUIRE REVISIONS TO THE CONTRACT DOCUMENTS, IS CONSISTENT WITH THE CONTRACT DOCUMENTS, WILL PRODUCE THE INDICATED RESULTS, AND IS COMPATIBLE WITH OTHER PORTIONS OF THE WORK. DETAILED COMPARISON OF SIGNIFICANT QUALITIES OF PROPOSED PRODUCT WITH THOSE NAMED IN THE SPECIFICATIONS. SIGNIFICANT PRODUCT QUALITIES INCLUDE ATTRIBUTES SUCH AS TYPE, FUNCTION, IN-SERVICE PERFORMANCE AND PHYSICAL PROPERTIES, WEIGHT, DIMENSION, DURABILITY, VISUAL CHARACTERISTICS, AND OTHER SPECIFIC FEATURES AND REQUIREMENTS.
2. EVIDENCE THAT PROPOSED PRODUCT PROVIDES SPECIFIED WARRANTY.
3. LIST OF SIMILAR INSTALLATIONS FOR COMPLETED PROJECTS WITH PROJECT NAMES AND ADDRESSES AND NAMES AND ADDRESSES OF ARCHITECTS AND OWNERS, IF REQUESTED.
4. SAMPLES, IF REQUESTED.

B. SUBMITTAL REQUIREMENTS: APPROVAL BY LA-Z-BOY CORPORATE OF CONTRACTOR'S REQUEST FOR USE OF COMPARABLE PRODUCT IS NOT INTENDED TO SATISFY OTHER SUBMITTAL REQUIREMENTS. COMPLY WITH SPECIFIED SUBMITTAL REQUIREMENTS.

SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES GENERAL ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS GOVERNING EXECUTION OF THE WORK INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. CONSTRUCTION LAYOUT.
2. SURVEYING.
3. INSTALLATION OF THE WORK.
4. COORDINATION OF LA-Z-BOY CORPORATE-INSTALLED PRODUCTS.
5. PROGRESS CLEANING.
6. STARTING AND ADJUSTING.
7. PROTECTION OF INSTALLED CONSTRUCTION.

B. RELATED REQUIREMENTS:

1. SECTION 011000 "SUMMARY" FOR LIMITS ON USE OF PROJECT SITE.
2. SECTION 017700 "CLOSEOUT PROCEDURES" FOR SUBMITTING FINAL PROPERTY SURVEY WITH PROJECT RECORD DOCUMENTS, RECORDING OF OWNER-ACCEPTED DEVIATIONS FROM INDICATED LINES AND LEVELS, REPLACING DEFECTIVE WORK, AND FINAL CLEANING.

1.3 - DEFINITIONS

A. CUTTING: REMOVAL OF IN-PLACE CONSTRUCTION NECESSARY TO PERMIT INSTALLATION OR PERFORMANCE OF SUBSEQUENT WORK.

B. PATCHING: FITTING AND REPAIR WORK REQUIRED TO RESTORE CONSTRUCTION TO ORIGINAL CONDITIONS AFTER INSTALLATION OF SUBSEQUENT WORK.

1.4 - INFORMATIONAL SUBMITTALS

A. QUALIFICATION DATA: FOR LAND SURVEYOR.

B. CERTIFICATES: SUBMIT CERTIFICATE SIGNED BY LAND SURVEYOR CERTIFYING THAT LOCATION AND ELEVATION OF IMPROVEMENTS COMPLY WITH REQUIREMENTS.

C. CERTIFIED SURVEYS: SUBMIT TWO COPIES SIGNED BY LAND SURVEYOR.

D. FINAL PROPERTY SURVEY: SUBMIT 2 COPIES SHOWING THE WORK PERFORMED AND RECORD SURVEY DATA.

1.5 - QUALITY ASSURANCE

A. LAND SURVEYOR QUALIFICATIONS: A PROFESSIONAL LAND SURVEYOR WHO IS LEGALLY QUALIFIED TO PRACTICE IN JURISDICTION WHERE PROJECT IS LOCATED AND WHO IS EXPERIENCED IN PROVIDING LAND-SURVEYING SERVICES OF THE KIND INDICATED.

B. MANUFACTURER'S INSTALLATION INSTRUCTIONS: OBTAIN AND MAINTAIN ON-SITE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTRUCTIONS FOR INSTALLATION OF PRODUCTS AND EQUIPMENT.

PART 2 - PRODUCTS

2.1 - MATERIALS

A. IN-PLACE MATERIALS: USE MATERIALS FOR PATCHING IDENTICAL TO IN-PLACE MATERIALS. FOR EXPOSED SURFACES, USE MATERIALS THAT VISUALLY MATCH IN-PLACE ADJACENT SURFACES TO THE FULLEST EXTENT POSSIBLE.

1. IF IDENTICAL MATERIALS ARE UNAVAILABLE OR CANNOT BE USED, USE MATERIALS THAT, WHEN INSTALLED, WILL PROVIDE A MATCH ACCEPTABLE TO LA-Z-BOY CORPORATE FOR THE VISUAL AND FUNCTIONAL PERFORMANCE OF IN-PLACE MATERIALS.

PART 3 - EXECUTION

3.1 - EXAMINATION

A. EXISTING CONDITIONS: THE EXISTENCE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AND CONSTRUCTION INDICATED AS EXISTING ARE NOT GUARANTEED. BEFORE BEGINNING SITEWORK, INVESTIGATE AND VERIFY THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, MECHANICAL AND ELECTRICAL SYSTEMS, AND OTHER CONSTRUCTION AFFECTING THE WORK.

1. BEFORE CONSTRUCTION, VERIFY THE LOCATION AND INVERT ELEVATION AT POINTS OF CONNECTION OF SANITARY SEWER, STORM SEWER, AND WATER-SERVICE PIPING; UNDERGROUND ELECTRICAL SERVICES; AND OTHER UTILITIES.
2. FURNISH LOCATION DATA FOR WORK RELATED TO PROJECT THAT MUST BE PERFORMED BY PUBLIC UTILITIES SERVING PROJECT SITE.

B. EXAMINATION AND ACCEPTANCE OF CONDITIONS: BEFORE PROCEEDING WITH EACH COMPONENT OF THE WORK, EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER OR APPLICATOR PRESENT WHERE INDICATED, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE. RECORD OBSERVATIONS.

1. EXAMINE ROUGHING-IN FOR MECHANICAL AND ELECTRICAL SYSTEMS TO VERIFY ACTUAL LOCATIONS OF CONNECTIONS BEFORE EQUIPMENT AND FIXTURE INSTALLATION.
2. EXAMINE WALLS, FLOORS, AND ROOFS FOR SUITABLE CONDITIONS WHERE PRODUCTS AND SYSTEMS ARE TO BE INSTALLED.
3. VERIFY COMPATIBILITY WITH AND SUITABILITY OF SUBSTRATES, INCLUDING COMPATIBILITY WITH EXISTING FINISHES OR PRIMERS.

C. WRITTEN REPORT: WHERE A WRITTEN REPORT LISTING CONDITIONS DETRIMENTAL TO PERFORMANCE OF THE WORK IS REQUIRED BY OTHER SECTIONS, INCLUDE THE FOLLOWING:

1. DESCRIPTION OF THE WORK.
2. LIST OF DETRIMENTAL CONDITIONS, INCLUDING SUBSTRATES.
3. LIST OF UNACCEPTABLE INSTALLATION TOLERANCES.
4. RECOMMENDED CORRECTIONS.

D. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. PROCEEDING WITH THE WORK INDICATES ACCEPTANCE OF SURFACES AND CONDITIONS.

3.2 - PREPARATION

A. EXISTING UTILITY INFORMATION: FURNISH INFORMATION TO LOCAL UTILITY THAT IS NECESSARY TO ADJUST, MOVE, OR RELOCATE EXISTING UTILITY STRUCTURES, UTILITY POLES, LINES, SERVICES, OR OTHER UTILITY APPURTENANCES LOCATED IN OR AFFECTED BY CONSTRUCTION. COORDINATE WITH AUTHORITIES HAVING JURISDICTION.

B. FIELD MEASUREMENTS: TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE INSTALLING EACH PRODUCT. WHERE PORTIONS OF THE WORK ARE INDICATED TO FIT TO OTHER CONSTRUCTION, VERIFY DIMENSIONS OF OTHER CONSTRUCTION BY FIELD MEASUREMENTS BEFORE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK.

C. SPACE REQUIREMENTS: VERIFY SPACE REQUIREMENTS AND DIMENSIONS OF ITEMS SHOWN DIAGRAMMATICALLY ON DRAWINGS.

D. REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS: IMMEDIATELY ON DISCOVERY OF THE NEED FOR CLARIFICATION OF THE CONTRACT DOCUMENTS CAUSED BY DIFFERING FIELD CONDITIONS OUTSIDE THE CONTROL OF CONTRACTOR, SUBMIT A REQUEST FOR INFORMATION TO ARCHITECT/ENGINEER OF RECORD ACCORDING TO REQUIREMENTS IN SECTION 013100 "PROJECT MANAGEMENT AND COORDINATION."

3.3 - CONSTRUCTION LAYOUT

A. VERIFICATION: BEFORE PROCEEDING TO LAY OUT THE WORK, VERIFY LAYOUT INFORMATION SHOWN ON DRAWINGS, IN RELATION TO THE PROPERTY SURVEY AND EXISTING BENCHMARKS. IF DISCREPANCIES ARE DISCOVERED, NOTIFY LA-Z-BOY CORPORATE PROMPTLY.

B. GENERAL: ENGAGE A REGISTERED LAND SURVEYOR TO LAY OUT THE WORK USING ACCEPTED SURVEYING PRACTICES.

1. ESTABLISH BENCHMARKS AND CONTROL POINTS TO SET LINES AND LEVELS AT EACH STORY OF CONSTRUCTION AND ELSEWHERE AS NEEDED TO LOCATE EACH ELEMENT OF PROJECT.
2. ESTABLISH LIMITS ON USE OF PROJECT SITE.
3. ESTABLISH DIMENSIONS WITHIN TOLERANCES INDICATED. DO NOT SCALE DRAWINGS TO OBTAIN REQUIRED DIMENSIONS.
4. INFORM INSTALLERS OF LINES AND LEVELS TO WHICH THEY MUST COMPLY.
5. CHECK THE LOCATION, LEVEL AND PLUMB, OF EVERY MAJOR ELEMENT AS THE WORK PROGRESSES.
6. NOTIFY LA-Z-BOY CORPORATE WHEN DEVIATIONS FROM REQUIRED LINES AND LEVELS EXCEED ALLOWABLE TOLERANCES.
7. CLOSE SITE SURVEYS WITH AN ERROR OF CLOSURE EQUAL TO OR LESS THAN THE STANDARD ESTABLISHED BY AUTHORITIES HAVING JURISDICTION.

C. SITE IMPROVEMENTS: LOCATE AND LAY OUT SITE IMPROVEMENTS, INCLUDING PAVEMENTS, GRADING, FILL AND TOPSOIL PLACEMENT, UTILITY SLOPES, AND RIM AND INVERT ELEVATIONS.

D. BUILDING LINES AND LEVELS: LOCATE AND LAY OUT CONTROL LINES AND LEVELS FOR STRUCTURES, BUILDING FOUNDATIONS, COLUMN GRIDS, AND FLOOR LEVELS, INCLUDING THOSE REQUIRED FOR MECHANICAL AND ELECTRICAL WORK. TRANSFER SURVEY MARKINGS AND ELEVATIONS FOR USE WITH CONTROL LINES AND LEVELS. LEVEL FOUNDATIONS AND PIERS FROM TWO OR MORE LOCATIONS.

E. RECORD LOG: MAINTAIN A LOG OF LAYOUT CONTROL WORK. RECORD DEVIATIONS FROM REQUIRED LINES AND LEVELS. INCLUDE BEGINNING AND ENDING DATES AND TIMES OF SURVEYS, WEATHER CONDITIONS, NAME AND DUTY OF EACH SURVEY PARTY MEMBER, AND TYPES OF INSTRUMENTS AND TAPES USED. MAKE THE LOG AVAILABLE FOR REFERENCE BY LA-Z-BOY CORPORATE, ARCHITECT/ENGINEER OF RECORD.

3.4 - INSTALLATION

A. GENERAL: LOCATE THE WORK AND COMPONENTS OF THE WORK ACCURATELY, IN CORRECT ALIGNMENT AND ELEVATION, AS INDICATED.

1. MAKE VERTICAL WORK PLUMB AND MAKE HORIZONTAL WORK LEVEL.
2. WHERE SPACE IS LIMITED, INSTALL COMPONENTS TO MAXIMIZE SPACE AVAILABLE FOR MAINTENANCE AND EASE OF REMOVAL FOR REPLACEMENT.
3. CONCEAL PIPES, DUCTS, AND WIRING IN FINISHED AREAS UNLESS OTHERWISE INDICATED.
4. MAINTAIN MINIMUM HEADROOM CLEARANCE OF 96 INCHES (2440 MM) IN OCCUPIED SPACES AND 90 INCHES (2300 MM) IN UNOCCUPIED SPACES.

B. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLING PRODUCTS IN APPLICATIONS INDICATED.

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ARCHITECTURAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A0.2

BUILDING SHELL CONSTRUCTION SET

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SECTION 017300 - EXECUTION (CONTINUED)

C. INSTALL PRODUCTS AT THE TIME AND UNDER CONDITIONS THAT WILL ENSURE THE BEST POSSIBLE RESULTS. MAINTAIN CONDITIONS REQUIRED FOR PRODUCT PERFORMANCE UNTIL SUBSTANTIAL COMPLETION.

D. CONDUCT CONSTRUCTION OPERATIONS SO NO PART OF THE WORK IS SUBJECTED TO DAMAGING OPERATIONS OR LOADING IN EXCESS OF THAT EXPECTED DURING NORMAL CONDITIONS OF OCCUPANCY.

E. SEQUENCE THE WORK AND ALLOW ADEQUATE CLEARANCES TO ACCOMMODATE MOVEMENT OF CONSTRUCTION ITEMS ON SITE AND PLACEMENT IN PERMANENT LOCATIONS.

F. TOOLS AND EQUIPMENT: WHERE POSSIBLE, SELECT TOOLS OR EQUIPMENT THAT MINIMIZE PRODUCTION OF EXCESSIVE NOISE LEVELS.

G. TEMPLATES: OBTAIN AND DISTRIBUTE TO THE PARTIES INVOLVED TEMPLATES FOR WORK SPECIFIED TO BE FACTORY PREPARED AND FIELD INSTALLED. CHECK SHOP DRAWINGS OF OTHER PORTIONS OF THE WORK TO CONFIRM THAT ADEQUATE PROVISIONS ARE MADE FOR LOCATING AND INSTALLING PRODUCTS TO COMPLY WITH INDICATED REQUIREMENTS.

H. ATTACHMENT: PROVIDE BLOCKING AND ATTACHMENT PLATES AND ANCHORS AND FASTENERS OF ADEQUATE SIZE AND NUMBER TO SECURELY ANCHOR EACH COMPONENT IN PLACE, ACCURATELY LOCATED AND ALIGNED WITH OTHER PORTIONS OF THE WORK. WHERE SIZE AND TYPE OF ATTACHMENTS ARE NOT INDICATED, VERIFY SIZE AND TYPE REQUIRED FOR LOAD CONDITIONS.

1. MOUNTING HEIGHTS: WHERE MOUNTING HEIGHTS ARE NOT INDICATED, MOUNT COMPONENTS AT HEIGHTS DIRECTED BY ARCHITECT.
2. ALLOW FOR BUILDING MOVEMENT, INCLUDING THERMAL EXPANSION AND CONTRACTION.
3. COORDINATE INSTALLATION OF ANCHORAGES. FURNISH SETTING DRAWINGS, TEMPLATES, AND DIRECTIONS FOR INSTALLING ANCHORAGES, INCLUDING SLEEVES, CONCRETE INSERTS, ANCHOR BOLTS, AND ITEMS WITH INTEGRAL ANCHORS, THAT ARE TO BE EMBEDDED IN CONCRETE OR MASONRY. DELIVER SUCH ITEMS TO PROJECT SITE IN TIME FOR INSTALLATION.

I. JOINTS: MAKE JOINTS OF UNIFORM WIDTH. WHERE JOINT LOCATIONS IN EXPOSED WORK ARE NOT INDICATED, ARRANGE JOINTS FOR THE BEST VISUAL EFFECT. FIT EXPOSED CONNECTIONS TOGETHER TO FORM HAIRLINE JOINTS.
J. REPAIR OR REMOVE AND REPLACE DAMAGED, DEFECTIVE, OR NONCONFORMING WORK.

1. COMPLY WITH SECTION 017700 "CLOSEOUT PROCEDURES" FOR REPAIRING OR REMOVING AND REPLACING DEFECTIVE WORK.

3.5 - CUTTING AND PATCHING

A. CUTTING AND PATCHING, GENERAL: EMPLOY SKILLED WORKERS TO PERFORM CUTTING AND PATCHING. PROCEED WITH CUTTING AND PATCHING AT THE EARLIEST FEASIBLE TIME, AND COMPLETE WITHOUT DELAY.

1. CUT IN-PLACE CONSTRUCTION TO PROVIDE FOR INSTALLATION OF OTHER COMPONENTS OR PERFORMANCE OF OTHER CONSTRUCTION, AND SUBSEQUENTLY PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. EXISTING WARRANTIES: REMOVE, REPLACE, PATCH, AND REPAIR MATERIALS AND SURFACES CUT OR DAMAGED DURING INSTALLATION OR CUTTING AND PATCHING OPERATIONS, BY METHODS AND WITH MATERIALS SO AS NOT TO VOID EXISTING WARRANTIES.

C. TEMPORARY SUPPORT: PROVIDE TEMPORARY SUPPORT OF WORK TO BE CUT.

D. PROTECTION: PROTECT IN-PLACE CONSTRUCTION DURING CUTTING AND PATCHING TO PREVENT DAMAGE. PROVIDE PROTECTION FROM ADVERSE WEATHER CONDITIONS FOR PORTIONS OF PROJECT THAT MIGHT BE EXPOSED DURING CUTTING AND PATCHING OPERATIONS.

E. ADJACENT OCCUPIED AREAS: WHERE INTERFERENCE WITH USE OF ADJOINING AREAS OR INTERRUPTION OF FREE PASSAGE TO ADJOINING AREAS IS UNAVOIDABLE, COORDINATE CUTTING AND PATCHING ACCORDING TO REQUIREMENTS OF LA-Z-BOY CORPORATE.

F. EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS: WHERE EXISTING SERVICES/SYSTEMS ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, BYPASS SUCH SERVICES/SYSTEMS BEFORE CUTTING TO PREVENT INTERRUPTION TO OCCUPIED AREAS.

G. CUTTING: CUT IN-PLACE CONSTRUCTION BY SAWING, DRILLING, BREAKING, CHIPPING, GRINDING, AND SIMILAR OPERATIONS, INCLUDING EXCAVATION, USING METHODS LEAST LIKELY TO DAMAGE ELEMENTS RETAINED OR ADJOINING CONSTRUCTION. IF POSSIBLE, REVIEW PROPOSED PROCEDURES WITH ORIGINAL INSTALLER; COMPLY WITH ORIGINAL INSTALLER'S WRITTEN RECOMMENDATIONS.

1. IN GENERAL, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING AND GRINDING, NOT HAMMERING AND CHOPPING. CUT HOLES AND SLOTS NEATLY TO MINIMUM SIZE REQUIRED, AND WITH MINIMUM DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS WHEN NOT IN USE.
2. FINISHED SURFACES: CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES.
3. CONCRETE AND MASONRY: CUT USING A CUTTING MACHINE, SUCH AS AN ABRASIVE SAW OR A DIAMOND-CORE DRILL.
4. EXCAVATING AND BACKFILLING: COMPLY WITH REQUIREMENTS IN APPLICABLE SECTIONS WHERE REQUIRED BY CUTTING AND PATCHING OPERATIONS.
5. MECHANICAL AND ELECTRICAL SERVICES: CUT OFF PIPE OR CONDUIT IN WALLS OR PARTITIONS TO BE REMOVED. CAP, VALVE, OR PLUG AND SEAL REMAINING PORTION OF PIPE OR CONDUIT TO PREVENT ENTRANCE OF MOISTURE OR OTHER FOREIGN MATTER AFTER CUTTING.
6. PROCEED WITH PATCHING AFTER CONSTRUCTION OPERATIONS REQUIRING CUTTING ARE COMPLETE.

H. PATCHING: PATCH CONSTRUCTION BY FILLING, REPAIRING, REFINISHING, CLOSING UP, AND SIMILAR OPERATIONS FOLLOWING PERFORMANCE OF OTHER WORK. PATCH WITH DURABLE SEAMS THAT ARE AS INVISIBLE AS PRACTICABLE. PROVIDE MATERIALS AND COMPLY WITH INSTALLATION REQUIREMENTS SPECIFIED IN OTHER SECTIONS, WHERE APPLICABLE.

1. INSPECTION: WHERE FEASIBLE, TEST AND INSPECT PATCHED AREAS AFTER COMPLETION TO DEMONSTRATE PHYSICAL INTEGRITY OF INSTALLATION.
2. EXPOSED FINISHES: RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO RETAINED ADJOINING CONSTRUCTION IN A MANNER THAT WILL MINIMIZE EVIDENCE OF PATCHING AND REFINISHING.

   a. CLEAN PIPING, CONDUIT, AND SIMILAR FEATURES BEFORE APPLYING PAINT OR OTHER FINISHING MATERIALS.
   b. RESTORE DAMAGED PIPE COVERING TO ITS ORIGINAL CONDITION.

3. FLOORS AND WALLS: WHERE WALLS OR PARTITIONS THAT ARE REMOVED EXTEND ONE FINISHED AREA INTO ANOTHER, PATCH AND REPAIR FLOOR AND WALL SURFACES IN THE NEW SPACE. PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE, AND APPEARANCE. REMOVE IN-PLACE FLOOR AND WALL COVERINGS AND REPLACE WITH NEW MATERIALS, IF NECESSARY, TO ACHIEVE UNIFORM COLOR AND APPEARANCE.c

   a. WHERE PATCHING OCCURS IN A PAINTED SURFACE, PREPARE SUBSTRATE AND APPLY PRIMER AND INTERMEDIATE PAINT COATS APPROPRIATE FOR SUBSTRATE OVER THE PATCH, AND APPLY FINAL PAINT COAT OVER ENTIRE UNBROKEN SURFACE CONTAINING THE PATCH. PROVIDE ADDITIONAL COATS UNTIL PATCH BLENDS WITH ADJACENT SURFACES.

4. CEILINGS: PATCH, REPAIR, OR REHANG IN-PLACE CEILINGS AS NECESSARY TO PROVIDE AN EVEN-PLANE SURFACE OF UNIFORM APPEARANCE.
5. EXTERIOR BUILDING ENCLOSURE: PATCH COMPONENTS IN A MANNER THAT RESTORES ENCLOSURE TO A WEATHERTIGHT CONDITION AND ENSURES THERMAL AND MOISTURE INTEGRITY OF BUILDING ENCLOSURE.

I. CLEANING: CLEAN AREAS AND SPACES WHERE CUTTING AND PATCHING ARE PERFORMED. REMOVE PAINT, MORTAR, OILS, PUTTY, AND SIMILAR MATERIALS FROM ADJACENT FINISHED SURFACES

3.6 - LA-Z-BOY CORPORATE - INSTALLED PRODUCTS

A. SITE ACCESS: PROVIDE ACCESS TO PROJECT SITE FOR LA-Z-BOY CORPORATE'S CONSTRUCTION PERSONNEL.

B. COORDINATION: COORDINATE CONSTRUCTION AND OPERATIONS OF THE WORK WITH WORK PERFORMED BY LA-Z-BOY CORPORATE'S CONSTRUCTION PERSONNEL.

1. CONSTRUCTION SCHEDULE: INFORM LA-Z-BOY CORPORATE OF CONTRACTOR'S PREFERRED CONSTRUCTION SCHEDULE FOR OWNER'S PORTION OF THE WORK. ADJUST CONSTRUCTION SCHEDULE BASED ON A MUTUALLY AGREEABLE TIMETABLE. NOTIFY LA-Z-BOY CORPORATE IF CHANGES TO SCHEDULE ARE REQUIRED DUE TO DIFFERENCES IN ACTUAL CONSTRUCTION PROGRESS.

3.7 - PROGRESS CLEANING

A. GENERAL: CLEAN PROJECT SITE AND WORK AREAS DAILY, INCLUDING COMMON AREAS. ENFORCE REQUIREMENTS STRICTLY. DISPOSE OF MATERIALS LAWFULLY.

1. COMPLY WITH REQUIREMENTS IN NFPA 241 FOR REMOVAL OF COMBUSTIBLE WASTE MATERIALS AND DEBRIS.
2. DO NOT HOLD WASTE MATERIALS MORE THAN SEVEN DAYS DURING NORMAL WEATHER OR THREE DAYS IF THE TEMPERATURE IS EXPECTED TO RISE ABOVE 80 DEG F (27 DEG C).
3. CONTAINERIZE HAZARDOUS AND UNSANITARY WASTE MATERIALS SEPARATELY FROM OTHER WASTE. MARK CONTAINERS APPROPRIATELY AND DISPOSE OF LEGALLY, ACCORDING TO REGULATIONS.

   a. USE CONTAINERS INTENDED FOR HOLDING WASTE MATERIALS OF TYPE TO BE STORED.

4. COORDINATE PROGRESS CLEANING FOR JOINT-USE AREAS WHERE CONTRACTOR AND OTHER CONTRACTORS ARE WORKING CONCURRENTLY.

B. SITE: MAINTAIN PROJECT SITE FREE OF WASTE MATERIALS AND DEBRIS.

C. WORK AREAS: CLEAN AREAS WHERE WORK IS IN PROGRESS TO THE LEVEL OF CLEANLINESS NECESSARY FOR PROPER EXECUTION OF THE WORK.

1. REMOVE LIQUID SPILLS PROMPTLY.
2. WHERE DUST WOULD IMPAIR PROPER EXECUTION OF THE WORK, BROOM-CLEAN OR VACUUM THE ENTIRE WORK AREA, AS APPROPRIATE.

D. INSTALLED WORK: KEEP INSTALLED WORK CLEAN. CLEAN INSTALLED SURFACES ACCORDING TO WRITTEN INSTRUCTIONS OF MANUFACTURER OR FABRICATOR OF PRODUCT INSTALLED, USING ONLY CLEANING MATERIALS SPECIFICALLY RECOMMENDED. IF SPECIFIC CLEANING MATERIALS ARE NOT RECOMMENDED, USE CLEANING MATERIALS THAT ARE NOT HAZARDOUS TO HEALTH OR PROPERTY AND THAT WILL NOT DAMAGE EXPOSED SURFACES.

E. CONCEALED SPACES: REMOVE DEBRIS FROM CONCEALED SPACES BEFORE ENCLOSING THE SPACE.

F. EXPOSED SURFACES IN FINISHED AREAS: CLEAN EXPOSED SURFACES AND PROTECT AS NECESSARY TO ENSURE FREEDOM FROM DAMAGE AND DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

G. WASTE DISPOSAL: DO NOT BURY OR BURN WASTE MATERIALS ON-SITE. DO NOT WASH WASTE MATERIALS DOWN SEWERS OR INTO WATERWAYS. COMPLY WITH WASTE DISPOSAL REQUIREMENTS IN SECTION 017419 "CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL."

H. DURING HANDLING AND INSTALLATION, CLEAN AND PROTECT CONSTRUCTION IN PROGRESS AND ADJOINING MATERIALS ALREADY IN PLACE. APPLY PROTECTIVE COVERING WHERE REQUIRED TO ENSURE PROTECTION FROM DAMAGE OR DETERIORATION AT SUBSTANTIAL COMPLETION.

I. CLEAN AND PROVIDE MAINTENANCE ON COMPLETED CONSTRUCTION AS FREQUENTLY AS NECESSARY THROUGH THE REMAINDER OF THE CONSTRUCTION PERIOD. ADJUST AND LUBRICATE OPERABLE COMPONENTS TO ENSURE OPERABILITY WITHOUT DAMAGING EFFECTS.

J. LIMITING EXPOSURES: SUPERVISE CONSTRUCTION OPERATIONS TO ENSURE THAT NO PART OF THE CONSTRUCTION, COMPLETED OR IN PROGRESS, IS SUBJECT TO HARMFUL, DANGEROUS, DAMAGING, OR OTHERWISE DELETERIOUS EXPOSURE DURING THE CONSTRUCTION PERIOD.

3.8 - STARTING AND ADJUSTING

A. COORDINATE STARTUP AND ADJUSTING OF EQUIPMENT AND OPERATING COMPONENTS WITH REQUIREMENTS AS FOUND IN THE EQUIPMENT AND COMPONENT SPECIFICATIONS.

B. START EQUIPMENT AND OPERATING COMPONENTS TO CONFIRM PROPER OPERATION. REMOVE MALFUNCTIONING UNITS, REPLACE WITH NEW UNITS, AND RETEST.

C. ADJUST EQUIPMENT FOR PROPER OPERATION. ADJUST OPERATING COMPONENTS FOR PROPER OPERATION WITHOUT BINDING.

D. TEST EACH PIECE OF EQUIPMENT TO VERIFY PROPER OPERATION. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

E. MANUFACTURER'S FIELD SERVICE: COMPLY WITH QUALIFICATION REQUIREMENTS IN SECTION 014000 "QUALITY REQUIREMENTS."

3.9 - PROTECTION OF INSTALLED CONSTRUCTION

A. PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS THAT ENSURE INSTALLED WORK IS WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.

B. PROTECTION OF EXISTING ITEMS: PROVIDE PROTECTION AND ENSURE THAT EXISTING ITEMS TO REMAIN UNDISTURBED BY CONSTRUCTION ARE MAINTAINED IN CONDITION THAT EXISTED AT COMMENCEMENT OF THE WORK.

C. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TEMPERATURE AND RELATIVE HUMIDITY.

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR THE FOLLOWING:

1. SALVAGING NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
2. RECYCLING NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.
3. DISPOSING OF NONHAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.

B. RELATED REQUIREMENTS:

1. SECTION 042000 "UNIT MASONRY" FOR DISPOSAL REQUIREMENTS FOR MASONRY WASTE.
2. SECTION 311000 "SITE CLEARING" FOR DISPOSITION OF WASTE RESULTING FROM SITE CLEARING AND REMOVAL OF ABOVE- AND BELOW-GRADE IMPROVEMENTS.

1.3 - DEFINITIONS

A. CONSTRUCTION WASTE: BUILDING, STRUCTURE, AND SITE IMPROVEMENT MATERIALS AND OTHER SOLID WASTE RESULTING FROM CONSTRUCTION, REMODELING, RENOVATION, OR REPAIR OPERATIONS. CONSTRUCTION WASTE INCLUDES PACKAGING.

B. DEMOLITION WASTE: BUILDING, STRUCTURE, AND SITE IMPROVEMENT MATERIALS RESULTING FROM DEMOLITION OPERATIONS.

C. DISPOSAL: REMOVAL OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT SALVAGE, SALE, RECYCLING, OR DEPOSIT IN LANDFILL, INCINERATOR ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, OR DESIGNATED SPOIL AREAS ON OWNER'S PROPERTY.

D. RECYCLE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE FOR SUBSEQUENT PROCESSING IN PREPARATION FOR REUSE.

E. SALVAGE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT SALE OR REUSE IN ANOTHER FACILITY.

F. SALVAGE AND REUSE: RECOVERY OF DEMOLITION OR CONSTRUCTION WASTE AND SUBSEQUENT INCORPORATION INTO THE WORK.

1.4 - MATERIALS OWNERSHIP

A. UNLESS OTHERWISE INDICATED, DEMOLITION AND CONSTRUCTION WASTE BECOMES PROPERTY OF CONTRACTOR.

1.5 - ACTION SUBMITTALS

A. WASTE MANAGEMENT PLAN: SUBMIT PLAN WITHIN 10 DAYS OF DATE ESTABLISHED FOR THE NOTICE OF AWARD.

1.6 - INFORMATIONAL SUBMITTALS

A. RECORDS OF DONATIONS: INDICATE RECEIPT AND ACCEPTANCE OF SALVAGEABLE WASTE DONATED TO INDIVIDUALS AND ORGANIZATIONS. INDICATE WHETHER ORGANIZATION IS TAX EXEMPT.

B. RECORDS OF SALES: INDICATE RECEIPT AND ACCEPTANCE OF SALVAGEABLE WASTE SOLD TO INDIVIDUALS AND ORGANIZATIONS. INDICATE WHETHER ORGANIZATION IS TAX EXEMPT.

C. RECYCLING AND PROCESSING FACILITY RECORDS: INDICATE RECEIPT AND ACCEPTANCE OF RECYCLABLE WASTE BY RECYCLING AND PROCESSING FACILITIES LICENSED TO ACCEPT THEM. INCLUDE MANIFESTS, WEIGHT TICKETS, RECEIPTS, AND INVOICES.

D. LANDFILL AND INCINERATOR DISPOSAL RECORDS: INDICATE RECEIPT AND ACCEPTANCE OF WASTE BY LANDFILLS AND INCINERATOR FACILITIES LICENSED TO ACCEPT THEM. INCLUDE MANIFESTS, WEIGHT TICKETS, RECEIPTS, AND INVOICES.

E. STATEMENT OF REFRIGERANT RECOVERY: SIGNED BY REFRIGERANT RECOVERY TECHNICIAN RESPONSIBLE FOR RECOVERING REFRIGERANT, STATING THAT ALL REFRIGERANT THAT WAS PRESENT WAS RECOVERED AND THAT RECOVERY WAS PERFORMED ACCORDING TO EPA REGULATIONS. INCLUDE NAME AND ADDRESS OF TECHNICIAN AND DATE REFRIGERANT WAS RECOVERED.

1.7 - QUALITY ASSURANCE

A. WASTE MANAGEMENT COORDINATOR QUALIFICATIONS: EXPERIENCED FIRM, OR INDIVIDUAL EMPLOYED AND ASSIGNED BY GENERAL CONTRACTOR, WITH A RECORD OF SUCCESSFUL WASTE MANAGEMENT COORDINATION OF PROJECTS WITH SIMILAR REQUIREMENTS. SUPERINTENDENT MAY SERVE AS WASTE MANAGEMENT COORDINATOR.

B. REFRIGERANT RECOVERY TECHNICIAN QUALIFICATIONS: UNIVERSAL CERTIFIED BY EPA-APPROVED CERTIFICATION PROGRAM.

C. REGULATORY REQUIREMENTS: COMPLY WITH TRANSPORTATION AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

1.8 - WASTE MANAGEMENT PLAN

A. GENERAL: DEVELOP A WASTE MANAGEMENT PLAN ACCORDING TO REQUIREMENTS IN THIS SECTION. PLAN SHALL CONSIST OF WASTE IDENTIFICATION, WASTE REDUCTION WORK PLAN, AND COST/REVENUE ANALYSIS. DISTINGUISH BETWEEN DEMOLITION AND CONSTRUCTION WASTE. INDICATE QUANTITIES BY WEIGHT OR VOLUME, BUT USE SAME UNITS OF MEASURE THROUGHOUT WASTE MANAGEMENT PLAN.

B. WASTE IDENTIFICATION: INDICATE ANTICIPATED TYPES AND QUANTITIES OF DEMOLITION SITE-CLEARING AND CONSTRUCTION WASTE GENERATED BY THE WORK. INCLUDE ESTIMATED QUANTITIES AND ASSUMPTIONS FOR ESTIMATES.

C. WASTE REDUCTION WORK PLAN: LIST EACH TYPE OF WASTE AND WHETHER IT WILL BE SALVAGED, RECYCLED, OR DISPOSED OF IN LANDFILL OR INCINERATOR.

PART 2 - PRODUCTS

PART 3 - EXECUTION

3.1 - PLAN IMPLEMENTATION

A. GENERAL: IMPLEMENT APPROVED WASTE MANAGEMENT PLAN. PROVIDE HANDLING, CONTAINERS, STORAGE, SIGNAGE, TRANSPORTATION, AND OTHER ITEMS AS REQUIRED TO IMPLEMENT WASTE MANAGEMENT PLAN DURING THE ENTIRE DURATION OF THE CONTRACT.

B. WASTE MANAGEMENT COORDINATOR: ENGAGE A WASTE MANAGEMENT COORDINATOR TO BE RESPONSIBLE FOR IMPLEMENTING, MONITORING, AND REPORTING STATUS OF WASTE MANAGEMENT WORK PLAN.

C. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT WASTE MANAGEMENT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.

3.2 - DISPOSAL OF WASTE

A. GENERAL: EXCEPT FOR ITEMS OR MATERIALS TO BE SALVAGED OR RECYCLED, REMOVE WASTE MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN A LANDFILL OR INCINERATOR ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

1. EXCEPT AS OTHERWISE SPECIFIED, DO NOT ALLOW WASTE MATERIALS THAT ARE TO BE DISPOSED OF ACCUMULATE ON-SITE.
2. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.

B. GENERAL: EXCEPT FOR ITEMS OR MATERIALS TO BE SALVAGED OR RECYCLED, REMOVE WASTE MATERIALS AND LEGALLY DISPOSE OF AT DESIGNATED SPOIL AREAS ON OWNER'S PROPERTY.

C. BURNING: DO NOT BURN WASTE MATERIALS.

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR CONTRACT CLOSEOUT, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. SUBSTANTIAL COMPLETION PROCEDURES.
2. FINAL COMPLETION PROCEDURES.
3. WARRANTIES.
4. FINAL CLEANING.
5. REPAIR OF THE WORK.

B. RELATED REQUIREMENTS:

1. SECTION 017823 "OPERATION AND MAINTENANCE DATA" FOR ADDITIONAL OPERATION AND MAINTENANCE MANUAL REQUIREMENTS.
2. SECTION 017839 "PROJECT RECORD DOCUMENTS" FOR SUBMITTING RECORD DRAWINGS, RECORD SPECIFICATIONS, AND RECORD PRODUCT DATA.

1.3 - ACTION SUBMITTALS

A. PRODUCT DATA: FOR EACH TYPE OF CLEANING AGENT.

B. CONTRACTOR'S LIST OF INCOMPLETE ITEMS: INITIAL SUBMITTAL AT SUBSTANTIAL COMPLETION.

C. CERTIFIED LIST OF INCOMPLETE ITEMS: FINAL SUBMITTAL AT FINAL COMPLETION.

1.4 - CLOSEOUT SUBMITTALS

A. CERTIFICATES OF RELEASE: FROM AUTHORITIES HAVING JURISDICTION.

B. CERTIFICATE OF INSURANCE: FOR CONTINUING COVERAGE.

1.5 - MAINTENANCE MATERIAL SUBMITTALS

A. SCHEDULE OF MAINTENANCE MATERIAL ITEMS: FOR MAINTENANCE MATERIAL SUBMITTAL ITEMS SPECIFIED IN OTHER SECTIONS.

1.6 - SUBSTANTIAL COMPLETION PROCEDURES

A. CONTRACTOR'S LIST OF INCOMPLETE ITEMS: PREPARE AND SUBMIT A LIST OF ITEMS TO BE COMPLETED AND CORRECTED (CONTRACTOR'S PUNCH LIST), INDICATING THE VALUE OF EACH ITEM ON THE LIST AND REASONS WHY THE WORK IS INCOMPLETE.

B. SUBMITTALS PRIOR TO SUBSTANTIAL COMPLETION: COMPLETE THE FOLLOWING A MINIMUM OF 10 DAYS PRIOR TO REQUESTING INSPECTION FOR DETERMINING DATE OF SUBSTANTIAL COMPLETION. LIST ITEMS BELOW THAT ARE INCOMPLETE AT TIME OF REQUEST.

1. CERTIFICATES OF RELEASE: OBTAIN AND SUBMIT RELEASES FROM AUTHORITIES HAVING JURISDICTION PERMITTING OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES. INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES, AND SIMILAR RELEASES.
2. SUBMIT CLOSEOUT SUBMITTALS SPECIFIED IN OTHER DIVISION 01 SECTIONS, INCLUDING PROJECT RECORD DOCUMENTS, OPERATION AND MAINTENANCE MANUALS, DAMAGE OR SETTLEMENT SURVEYS, PROPERTY SURVEYS, AND SIMILAR FINAL RECORD INFORMATION.
3. SUBMIT CLOSEOUT SUBMITTALS SPECIFIED IN INDIVIDUAL SECTIONS, INCLUDING SPECIFIC WARRANTIES, WORKMANSHIP BONDS, MAINTENANCE SERVICE AGREEMENTS, FINAL CERTIFICATIONS, AND SIMILAR DOCUMENTS.
4. SUBMIT MAINTENANCE MATERIAL SUBMITTALS SPECIFIED IN INDIVIDUAL SECTIONS, INCLUDING TOOLS, SPARE PARTS, EXTRA MATERIALS, AND SIMILAR ITEMS, AND DELIVER TO LOCATION DESIGNATED BY LA-Z-BOY CORPORATE AND OWNER. LABEL WITH MANUFACTURER'S NAME AND MODEL NUMBER.

   a. SCHEDULE OF MAINTENANCE MATERIAL ITEMS: PREPARE AND SUBMIT SCHEDULE OF MAINTENANCE MATERIAL SUBMITTAL ITEMS, INCLUDING NAME AND QUANTITY OF EACH ITEM AND NAME AND NUMBER OF RELATED SPECIFICATION SECTION. OBTAIN LA-Z-BOY CORPORATE AND OWNER'S SIGNATURE FOR RECEIPT OF SUBMITTALS.

5. SUBMIT TESTING, ADJUSTING, AND BALANCING RECORDS.
6. SUBMIT SUSTAINABLE DESIGN SUBMITTALS NOT PREVIOUSLY SUBMITTED.
7. SUBMIT CHANGEOVER INFORMATION RELATED TO OWNER'S OCCUPANCY, USE, OPERATION, AND MAINTENANCE.

C. PROCEDURES PRIOR TO SUBSTANTIAL COMPLETION: COMPLETE THE FOLLOWING A MINIMUM OF 10 DAYS PRIOR TO REQUESTING INSPECTION FOR DETERMINING DATE OF SUBSTANTIAL COMPLETION. LIST ITEMS BELOW THAT ARE INCOMPLETE AT TIME OF REQUEST.

1. ADVISE LA-Z-BOY CORPORATE AND OWNER OF PENDING INSURANCE CHANGEOVER REQUIREMENTS.
2. MAKE FINAL CHANGEOVER OF PERMANENT LOCKS AND DELIVER KEYS TO OWNER. ADVISE OWNER'S PERSONNEL OF CHANGEOVER IN SECURITY PROVISIONS.
3. COMPLETE STARTUP AND TESTING OF SYSTEMS AND EQUIPMENT.
4. PERFORM PREVENTIVE MAINTENANCE ON EQUIPMENT USED PRIOR TO SUBSTANTIAL COMPLETION.
5. INSTRUCT OWNER'S PERSONNEL IN OPERATION, ADJUSTMENT, AND MAINTENANCE OF PRODUCTS, EQUIPMENT, AND SYSTEMS.
6. ADVISE LA-Z-BOY CORPORATE AND OWNER OF CHANGEOVER IN UTILITY SERVICES.
7. PARTICIPATE WITH OWNER IN CONDUCTING INSPECTION AND WALK-THROUGH WITH LOCAL EMERGENCY RESPONDERS.
8. TERMINATE AND REMOVE TEMPORARY FACILITIES FROM PROJECT SITE, ALONG WITH MOCKUPS, CONSTRUCTION TOOLS, AND SIMILAR ELEMENTS.
9. COMPLETE FINAL CLEANING REQUIREMENTS.
10. TOUCH UP PAINT AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES TO ELIMINATE VISUAL DEFECTS.

D. INSPECTION: SUBMIT A WRITTEN REQUEST FOR INSPECTION TO DETERMINE SUBSTANTIAL COMPLETION A MINIMUM OF 7 DAYS PRIOR TO DATE THE WORK WILL BE COMPLETED AND READY FOR FINAL INSPECTION AND TESTS. ON RECEIPT OF REQUEST, LA-Z-BOY CORPORATE, ARCHITECT/ENGINEER OF RECORD AND OWNER WILL EITHER PROCEED WITH INSPECTION OR NOTIFY CONTRACTOR OF UNFULFILLED REQUIREMENTS. ARCHITECT OF RECORD WILL PREPARE THE CERTIFICATE OF SUBSTANTIAL COMPLETION AFTER INSPECTION OR WILL NOTIFY CONTRACTOR OF ITEMS, EITHER ON CONTRACTOR'S LIST OR ADDITIONAL ITEMS IDENTIFIED BY LA-Z-BOY CORPORATE, ARCHITECT, AND OWNER THAT MUST BE COMPLETED OR CORRECTED BEFORE CERTIFICATE WILL BE ISSUED.

1. REQUEST RE-INSPECTION WHEN THE WORK IDENTIFIED IN PREVIOUS INSPECTIONS AS INCOMPLETE IS COMPLETED OR CORRECTED.
2. RESULTS OF COMPLETED INSPECTION WILL FORM THE BASIS OF REQUIREMENTS FOR FINAL COMPLETION.

1.7 - FINAL COMPLETION PROCEDURES

A. SUBMITTALS PRIOR TO FINAL COMPLETION: BEFORE REQUESTING FINAL INSPECTION FOR DETERMINING FINAL COMPLETION, COMPLETE THE FOLLOWING:

1. SUBMIT A FINAL APPLICATION FOR PAYMENT.
2. CERTIFIED LIST OF INCOMPLETE ITEMS: SUBMIT CERTIFIED COPY OF LA-Z-BOY CORPORATE, ARCHITECT/ENGINEER OF RECORD, AND OWNER'S SUBSTANTIAL COMPLETION INSPECTION LIST OF ITEMS TO BE COMPLETED OR CORRECTED (PUNCH LIST), ENDORSED AND DATED BY ARCHITECT. CERTIFIED COPY OF THE LIST SHALL STATE THAT EACH ITEM HAS BEEN COMPLETED OR OTHERWISE RESOLVED FOR ACCEPTANCE.
3. CERTIFICATE OF INSURANCE: SUBMIT EVIDENCE OF FINAL, CONTINUING INSURANCE COVERAGE COMPLYING WITH INSURANCE REQUIREMENTS.

B. INSPECTION: SUBMIT A WRITTEN REQUEST FOR FINAL INSPECTION TO DETERMINE ACCEPTANCE A MINIMUM OF 10 DAYS PRIOR TO DATE THE WORK WILL BE COMPLETED AND READY FOR FINAL INSPECTION AND TESTS. ON RECEIPT OF REQUEST, LA-Z-BOY CORPORATE, ARCHITECT/ENGINEER OF RECORD, AND OWNER WILL EITHER PROCEED WITH INSPECTION OR NOTIFY CONTRACTOR OF UNFULFILLED REQUIREMENTS. ARCHITECT OF RECORD WILL PREPARE A FINAL CERTIFICATE FOR PAYMENT AFTER INSPECTION OR WILL NOTIFY CONTRACTOR OF CONSTRUCTION THAT MUST BE COMPLETED OR CORRECTED BEFORE CERTIFICATE WILL BE ISSUED.

1. REQUEST RE-INSPECTION WHEN THE WORK IDENTIFIED IN PREVIOUS INSPECTIONS AS INCOMPLETE IS COMPLETED OR CORRECTED.

1.8 - LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. ORGANIZATION OF LIST: INCLUDE NAME AND IDENTIFICATION OF EACH SPACE AND AREA AFFECTED BY CONSTRUCTION OPERATIONS FOR INCOMPLETE ITEMS AND ITEMS NEEDING CORRECTION INCLUDING, IF NECESSARY, AREAS DISTURBED BY CONTRACTOR THAT ARE OUTSIDE THE LIMITS OF CONSTRUCTION.

1. ORGANIZE LIST OF SPACES IN SEQUENTIAL ORDER, STARTING WITH EXTERIOR AREAS FIRST AND PROCEEDING TO BUILDING INTERIOR.
2. ORGANIZE ITEMS APPLYING TO EACH SPACE BY MAJOR ELEMENT, INCLUDING CATEGORIES FOR CEILING, INDIVIDUAL WALLS, FLOORS, EQUIPMENT, AND BUILDING SYSTEMS.
3. INCLUDE THE FOLLOWING INFORMATION AT THE TOP OF EACH PAGE:

   a. PROJECT NAME.
   b. DATE.
   c. NAME OF ARCHITECT/ENGINEER OF RECORD.
   d. NAME OF CONTRACTOR.
   e. PAGE NUMBER.

4. SUBMIT LIST OF INCOMPLETE ITEMS IN THE FOLLOWING FORMAT:

   a. PDF ELECTRONIC FILE. ARCHITECT/ENGINEER OF RECORD WILL RETURN ANNOTATED FILE.

1.9 - SUBMITTAL OF PROJECT WARRANTIES

A. TIME OF SUBMITTAL: SUBMIT WRITTEN WARRANTIES ON REQUEST OF LA-Z-BOY CORPORATE, ARCHITECT/ENGINEER OF RECORD, AND OWNER FOR DESIGNATED PORTIONS OF THE WORK WHERE WARRANTIES ARE INDICATED TO COMMENCE ON DATES OTHER THAN DATE OF SUBSTANTIAL COMPLETION, OR WHEN DELAY IN SUBMITTAL OF WARRANTIES MIGHT LIMIT OWNER'S RIGHTS UNDER WARRANTY.

B. PARTIAL OCCUPANCY: SUBMIT PROPERLY EXECUTED WARRANTIES WITHIN 10 DAYS OF COMPLETION OF DESIGNATED PORTIONS OF THE WORK THAT ARE COMPLETED AND OCCUPIED OR USED BY OWNER DURING CONSTRUCTION PERIOD BY SEPARATE AGREEMENT WITH CONTRACTOR.

C. ORGANIZE WARRANTY DOCUMENTS INTO AN ORDERLY SEQUENCE BASED ON THE TABLE OF CONTENTS OF PROJECT MANUAL.

D. WARRANTY ELECTRONIC FILE: PROVIDE WARRANTIES AND BONDS IN PDF FORMAT. ASSEMBLE COMPLETE WARRANTY AND BOND SUBMITTAL PACKAGE INTO A SINGLE ELECTRONIC PDF FILE WITH BOOKMARKS ENABLING NAVIGATION TO EACH ITEM. PROVIDE BOOKMARKED TABLE OF CONTENTS AT BEGINNING OF DOCUMENT.

1. SUBMIT ON DIGITAL MEDIA ACCEPTABLE TO ARCHITECT/ENGINEER OF RECORD OR BY EMAIL TO ARCHITECT/ENGINEER OF RECORD.

E. PROVIDE ADDITIONAL COPIES OF EACH WARRANTY TO INCLUDE IN OPERATION AND MAINTENANCE MANUALS.

PART 2 - PRODUCTS

2.1 - MATERIALS

A. CLEANING AGENTS: USE CLEANING MATERIALS AND AGENTS RECOMMENDED BY MANUFACTURER OR FABRICATOR OF THE SURFACE TO BE CLEANED. DO NOT USE CLEANING AGENTS THAT ARE POTENTIALLY HAZARDOUS TO HEALTH OR PROPERTY OR THAT MIGHT DAMAGE FINISHED SURFACES.

PART 3 - EXECUTION

3.1 - FINAL CLEANING

A. GENERAL: PERFORM FINAL CLEANING. CONDUCT CLEANING AND WASTE-REMOVAL OPERATIONS TO COMPLY WITH LOCAL LAWS AND ORDINANCES AND FEDERAL AND LOCAL ENVIRONMENTAL AND ANTIPOLLUTION REGULATIONS.

B. CLEANING: EMPLOY EXPERIENCED WORKERS OR PROFESSIONAL CLEANERS FOR FINAL CLEANING. CLEAN EACH SURFACE OR UNIT TO CONDITION EXPECTED IN AN AVERAGE COMMERCIAL BUILDING CLEANING AND MAINTENANCE PROGRAM. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION OF SUBSTANTIAL COMPLETION FOR ENTIRE PROJECT OR FOR A DESIGNATED PORTION OF PROJECT:

   a. CLEAN PROJECT SITE, YARD, AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREAS, OF RUBBISH, WASTE MATERIAL, LITTER, AND OTHER FOREIGN SUBSTANCES.
   b. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETROCHEMICAL SPILLS, STAINS, AND OTHER FOREIGN DEPOSITS.
   c. RAKE GROUNDS THAT ARE NOT PLANTED, MULCHED, OR PAVED TO A SMOOTH, EVEN-TEXTURED SURFACE.
   d. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIAL FROM PROJECT SITE.
   e. REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO BUILDING.
   f. CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS, AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES. RESTORE REFLECTIVE SURFACES TO THEIR ORIGINAL CONDITION.
   g. REMOVE DEBRIS AND SURFACE DUST FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, PLENUMS, SHAFTS, TRENCHES, EQUIPMENT VAULTS, MANHOLES, ATTICS, AND SIMILAR SPACES.
   h. SWEEP CONCRETE FLOORS BROOM CLEAN IN UNOCCUPIED SPACES.
   i. VACUUM CARPET AND SIMILAR SOFT SURFACES, REMOVING DEBRIS AND EXCESS NAP; CLEAN ACCORDING TO MANUFACTURER'S RECOMMENDATIONS IF VISIBLE SOIL OR STAINS REMAIN.
   j. CLEAN TRANSPARENT MATERIALS, INCLUDING MIRRORS AND GLASS IN DOORS AND WINDOWS. REMOVE GLAZING COMPOUNDS AND OTHER NOTICEABLE, VISION-OBSCURING MATERIALS. POLISH MIRRORS AND GLASS, TAKING CARE NOT TO SCRATCH SURFACES.
   k. REMOVE LABELS THAT ARE NOT PERMANENT.
   l. WIPE SURFACES OF MECHANICAL AND ELECTRICAL EQUIPMENT AND SIMILAR EQUIPMENT. REMOVE EXCESS LUBRICATION, PAINT AND MORTAR DROPPINGS, AND OTHER FOREIGN SUBSTANCES.
   m. CLEAN PLUMBING FIXTURES TO A SANITARY CONDITION, FREE OF STAINS, INCLUDING STAINS RESULTING FROM WATER EXPOSURE.
   n. REPLACE DISPOSABLE AIR FILTERS AND CLEAN PERMANENT AIR FILTERS. CLEAN EXPOSED SURFACES OF DIFFUSERS, REGISTERS, AND GRILLS.
   o. CLEAN DUCTS, BLOWERS, AND COILS IF UNITS WERE OPERATED WITHOUT FILTERS DURING CONSTRUCTION OR THAT DISPLAY CONTAMINATION WITH PARTICULATE MATTER ON INSPECTION.

      - CLEAN HVAC SYSTEM IN COMPLIANCE WITH NADCA ACR. PROVIDE WRITTEN REPORT ON COMPLETION OF CLEANING.

   p. CLEAN LIGHT FIXTURES, LAMPS, GLOBES, AND REFLECTORS TO FUNCTION WITH FULL EFFICIENCY.
   q. LEAVE PROJECT CLEAN AND READY FOR OCCUPANCY.

C. CONSTRUCTION WASTE DISPOSAL: COMPLY WITH WASTE DISPOSAL REQUIREMENTS IN SECTION 017419 "CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL."

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy

3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ARCHITECTURAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A0.3

BUILDING SHELL CONSTRUCTION SET

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SECTION 017700 - CLOSEOUT PROCEDURES (CONTINUED)

3.2 - REPAIR OF THE WORK

A. COMPLETE REPAIR AND RESTORATION OPERATIONS BEFORE REQUESTING INSPECTION FOR DETERMINATION OF SUBSTANTIAL COMPLETION.

B. REPAIR, OR REMOVE AND REPLACE, DEFECTIVE CONSTRUCTION. REPAIRING INCLUDES REPLACING DEFECTIVE PARTS, REFINISHING DAMAGED SURFACES, TOUCHING UP WITH MATCHING MATERIALS, AND PROPERLY ADJUSTING OPERATING EQUIPMENT. WHERE DAMAGED OR WORN ITEMS CANNOT BE REPAIRED OR RESTORED, PROVIDE REPLACEMENTS. REMOVE AND REPLACE OPERATING COMPONENTS THAT CANNOT BE REPAIRED. RESTORE DAMAGED CONSTRUCTION AND PERMANENT FACILITIES USED DURING CONSTRUCTION TO SPECIFIED CONDITION.

1. REMOVE AND REPLACE CHIPPED, SCRATCHED, AND BROKEN GLASS, REFLECTIVE SURFACES, AND OTHER DAMAGED TRANSPARENT MATERIALS.
2. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED OR EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT THAT ALREADY SHOW EVIDENCE OF REPAIR OR RESTORATION.
    a. DO NOT PAINT OVER "UL" AND OTHER REQUIRED LABELS AND IDENTIFICATION, INCLUDING MECHANICAL AND ELECTRICAL NAMEPLATES. REMOVE PAINT APPLIED TO REQUIRED LABELS AND IDENTIFICATION.
3. REPLACE PARTS SUBJECT TO OPERATING CONDITIONS DURING CONSTRUCTION THAT MAY IMPEDE OPERATION OR REDUCE LONGEVITY.
4. REPLACE BURNED-OUT BULBS, BULBS NOTICEABLY DIMMED BY HOURS OF USE, AND DEFECTIVE AND NOISY STARTERS IN FLUORESCENT AND MERCURY VAPOR FIXTURES TO COMPLY WITH REQUIREMENTS FOR NEW FIXTURES.

SECTION 017823 - OPERATION AND MAINTENANCE DATA

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE LA-Z-BOY CORPORATE CONTRACT AGREEMENT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR PREPARING OPERATION AND MAINTENANCE MANUALS, INCLUDING THE FOLLOWING:

1. OPERATION AND MAINTENANCE DOCUMENTATION DIRECTORY MANUALS.
2. SYSTEMS AND EQUIPMENT OPERATION MANUALS.
3. SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS.
4. PRODUCT MAINTENANCE MANUALS.

1.3 - DEFINITIONS

A. SYSTEM: AN ORGANIZED COLLECTION OF PARTS, EQUIPMENT, OR SUBSYSTEMS UNITED BY REGULAR INTERACTION.

B. SUBSYSTEM: A PORTION OF A SYSTEM WITH CHARACTERISTICS SIMILAR TO A SYSTEM.

1.4 - CLOSEOUT SUBMITTALS

A. SUBMIT OPERATION AND MAINTENANCE MANUALS INDICATED. PROVIDE CONTENT FOR EACH MANUAL AS SPECIFIED IN INDIVIDUAL SPECIFICATION SECTIONS, AND AS REVIEWED AND APPROVED AT THE TIME OF SECTION SUBMITTALS. SUBMIT REVIEWED MANUAL CONTENT FORMATTED AND ORGANIZED AS REQUIRED BY THIS SECTION.

1. ARCHITECT/ENGINEER OF RECORD AND COMMISSIONING AUTHORITY (WHEN REQUIRED BY AUTHORITY HAVING JURISDICTION) WILL COMMENT ON WHETHER CONTENT OF OPERATION AND MAINTENANCE SUBMITTALS IS ACCEPTABLE.
2. WHERE APPLICABLE, CLARIFY AND UPDATE REVIEWED MANUAL CONTENT TO CORRESPOND TO REVISIONS AND FIELD CONDITIONS.

B. FORMAT: SUBMIT OPERATION AND MAINTENANCE MANUALS IN THE FOLLOWING FORMAT:

1. SUBMIT ON DIGITAL MEDIA ACCEPTABLE TO ARCHITECT/ENGINEER OF RECORD OR BY EMAIL TO ARCHITECT/ENGINEER OF RECORD. ENABLE REVIEWER COMMENTS ON DRAFT SUBMITTALS.

C. FINAL MANUAL SUBMITTAL: SUBMIT EACH MANUAL IN FINAL FORM PRIOR TO REQUESTING INSPECTION FOR SUBSTANTIAL COMPLETION AND AT LEAST 15 DAYS BEFORE COMMENCING DEMONSTRATION AND TRAINING. ARCHITECT/ENGINEER OF RECORD AND COMMISSIONING AUTHORITY (WHEN REQUIRED BY AUTHORITY HAVING JURISDICTION) WILL RETURN COPY WITH COMMENTS.

1. CORRECT OR REVISE EACH MANUAL TO COMPLY WITH ARCHITECT/ENGINEER OF RECORD AND COMMISSIONING AUTHORITY'S COMMENTS. SUBMIT COPIES OF EACH CORRECTED MANUAL WITHIN 15 DAYS OF RECEIPT OF ARCHITECT/ENGINEER OF RECORD AND COMMISSIONING AUTHORITY'S COMMENTS AND PRIOR TO COMMENCING DEMONSTRATION AND TRAINING.

D. COMPLY WITH SECTION 017700 "CLOSEOUT PROCEDURES" FOR SCHEDULE FOR SUBMITTING OPERATION AND MAINTENANCE DOCUMENTATION.

1.5 - FORMAT OF OPERATION AND MAINTENANCE MANUALS

A. MANUALS, ELECTRONIC FILES: SUBMIT MANUALS IN THE FORM OF A MULTIPLE FILE COMPOSITE ELECTRONIC PDF FILE FOR EACH MANUAL TYPE REQUIRED.

1. ELECTRONIC FILES: USE ELECTRONIC FILES PREPARED BY MANUFACTURER WHERE AVAILABLE. WHERE SCANNING OF PAPER DOCUMENTS IS REQUIRED, CONFIGURE SCANNED FILE FOR MINIMUM READABLE FILE SIZE.
2. FILE NAMES AND BOOKMARKS: BOOKMARK INDIVIDUAL DOCUMENTS BASED ON FILE NAMES. NAME DOCUMENT FILES TO CORRESPOND TO SYSTEM, SUBSYSTEM, AND EQUIPMENT NAMES USED IN MANUAL DIRECTORY AND TABLE OF CONTENTS. GROUP DOCUMENTS FOR EACH SYSTEM AND SUBSYSTEM INTO INDIVIDUAL COMPOSITE BOOKMARKED FILES, THEN CREATE COMPOSITE MANUAL, SO THAT RESULTING BOOKMARKS REFLECT THE SYSTEM, SUBSYSTEM, AND EQUIPMENT NAMES IN A READILY NAVIGATED FILE TREE. CONFIGURE ELECTRONIC MANUAL TO DISPLAY BOOKMARK PANEL ON OPENING FILE.

1.6 - REQUIREMENTS FOR EMERGENCY, OPERATION, AND MAINTENANCE MANUALS

A. ORGANIZATION OF MANUALS: UNLESS OTHERWISE INDICATED, ORGANIZE EACH MANUAL INTO A SEPARATE SECTION FOR EACH SYSTEM AND SUBSYSTEM, AND A SEPARATE SECTION FOR EACH PIECE OF EQUIPMENT NOT PART OF A SYSTEM. EACH MANUAL SHALL CONTAIN THE FOLLOWING MATERIALS, IN THE ORDER LISTED:

1. TITLE PAGE.
2. TABLE OF CONTENTS.
3. MANUAL CONTENTS.

B. TITLE PAGE: INCLUDE THE FOLLOWING INFORMATION:

1. SUBJECT MATTER INCLUDED IN MANUAL.
2. NAME AND ADDRESS OF PROJECT.
3. NAME AND ADDRESS OF OWNER.
4. DATE OF SUBMITTAL.
5. NAME AND CONTACT INFORMATION FOR CONTRACTOR.
6. NAME AND CONTACT INFORMATION FOR CONSTRUCTION MANAGER.
7. NAME AND CONTACT INFORMATION FOR ARCHITECT.
8. NAME AND CONTACT INFORMATION FOR COMMISSIONING AUTHORITY.
9. NAMES AND CONTACT INFORMATION FOR MAJOR CONSULTANTS TO THE ARCHITECT THAT DESIGNED THE SYSTEMS CONTAINED IN THE MANUALS.
10. CROSS-REFERENCE TO RELATED SYSTEMS IN OTHER OPERATION AND MAINTENANCE MANUALS.

C. TABLE OF CONTENTS: LIST EACH PRODUCT INCLUDED IN MANUAL, IDENTIFIED BY PRODUCT NAME, INDEXED TO THE CONTENT OF THE VOLUME, AND CROSS-REFERENCED TO SPECIFICATION SECTION NUMBER IN PROJECT MANUAL.

1. IF OPERATION OR MAINTENANCE DOCUMENTATION REQUIRES MORE THAN ONE VOLUME TO ACCOMMODATE DATA, INCLUDE COMPREHENSIVE TABLE OF CONTENTS FOR ALL VOLUMES IN EACH VOLUME OF THE SET.

D. MANUAL CONTENTS: ORGANIZE INTO SETS OF MANAGEABLE SIZE. ARRANGE CONTENTS ALPHABETICALLY BY SYSTEM, SUBSYSTEM, AND EQUIPMENT. IF POSSIBLE, ASSEMBLE INSTRUCTIONS FOR SUBSYSTEMS, EQUIPMENT, AND COMPONENTS OF ONE SYSTEM INTO A SINGLE BINDER.

E. IDENTIFICATION: IN THE DOCUMENTATION DIRECTORY AND IN EACH OPERATION AND MAINTENANCE MANUAL, IDENTIFY EACH SYSTEM, SUBSYSTEM, AND PIECE OF EQUIPMENT WITH SAME DESIGNATION USED IN THE CONTRACT DOCUMENTS. IF NO DESIGNATION EXISTS, ASSIGN A DESIGNATION ACCORDING TO ASHRAE GUIDELINE 4, "PREPARATION OF OPERATING AND MAINTENANCE DOCUMENTATION FOR BUILDING SYSTEMS."

1.7 - SYSTEMS AND EQUIPMENT OPERATION MANUALS

A. SYSTEMS AND EQUIPMENT OPERATION MANUAL: ASSEMBLE A COMPLETE SET OF DATA INDICATING OPERATION OF EACH SYSTEM, SUBSYSTEM, AND PIECE OF EQUIPMENT NOT PART OF A SYSTEM. INCLUDE INFORMATION REQUIRED FOR DAILY OPERATION AND MANAGEMENT, OPERATING STANDARDS, AND ROUTINE AND SPECIAL OPERATING PROCEDURES.

1. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO ASSEMBLE AND PREPARE INFORMATION FOR EACH SYSTEM, SUBSYSTEM, AND PIECE OF EQUIPMENT NOT PART OF A SYSTEM.
2. PREPARE A SEPARATE MANUAL FOR EACH SYSTEM AND SUBSYSTEM, IN THE FORM OF AN INSTRUCTIONAL MANUAL FOR USE BY OWNER'S OPERATING PERSONNEL.

B. CONTENT: IN ADDITION TO REQUIREMENTS IN THIS SECTION, INCLUDE OPERATION DATA REQUIRED IN INDIVIDUAL SPECIFICATION SECTIONS AND THE FOLLOWING INFORMATION:

1. SYSTEM, SUBSYSTEM, AND EQUIPMENT DESCRIPTIONS. USE DESIGNATIONS FOR SYSTEMS AND EQUIPMENT INDICATED ON CONTRACT DOCUMENTS.
2. PERFORMANCE AND DESIGN CRITERIA IF CONTRACTOR HAS DELEGATED DESIGN RESPONSIBILITY.
3. OPERATING STANDARDS.
4. OPERATING PROCEDURES.
5. OPERATING LOGS.
6. WIRING DIAGRAMS.
7. CONTROL DIAGRAMS.
8. PIPED SYSTEM DIAGRAMS.
9. PRECAUTIONS AGAINST IMPROPER USE.
10. LICENSE REQUIREMENTS INCLUDING INSPECTION AND RENEWAL DATES.

C. DESCRIPTIONS: INCLUDE THE FOLLOWING:

1. PRODUCT NAME AND MODEL NUMBER. USE DESIGNATIONS FOR PRODUCTS INDICATED ON CONTRACT DOCUMENTS.
2. MANUFACTURER'S NAME.
3. EQUIPMENT IDENTIFICATION WITH SERIAL NUMBER OF EACH COMPONENT.
4. EQUIPMENT FUNCTION.
5. OPERATING CHARACTERISTICS.
6. LIMITING CONDITIONS.
7. PERFORMANCE CURVES.
8. ENGINEERING DATA AND TESTS.
9. COMPLETE NOMENCLATURE AND NUMBER OF REPLACEMENT PARTS.

D. OPERATING PROCEDURES: INCLUDE THE FOLLOWING, AS APPLICABLE:

1. STARTUP PROCEDURES.
2. EQUIPMENT OR SYSTEM BREAK-IN PROCEDURES.
3. ROUTINE AND NORMAL OPERATING INSTRUCTIONS.
4. REGULATION AND CONTROL PROCEDURES.
5. INSTRUCTIONS ON STOPPING.
6. NORMAL SHUTDOWN INSTRUCTIONS.
7. SEASONAL AND WEEKEND OPERATING INSTRUCTIONS.
8. REQUIRED SEQUENCES FOR ELECTRIC OR ELECTRONIC SYSTEMS.
9. SPECIAL OPERATING INSTRUCTIONS AND PROCEDURES.

E. SYSTEMS AND EQUIPMENT CONTROLS: DESCRIBE THE SEQUENCE OF OPERATION, AND DIAGRAM CONTROLS AS INSTALLED.

F. PIPED SYSTEMS: DIAGRAM PIPING AS INSTALLED, AND IDENTIFY COLOR CODING WHERE REQUIRED FOR IDENTIFICATION.

1.8 - SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS

A. SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS: ASSEMBLE A COMPLETE SET OF DATA INDICATING MAINTENANCE OF EACH SYSTEM, SUBSYSTEM, AND PIECE OF EQUIPMENT NOT PART OF A SYSTEM. INCLUDE MANUFACTURERS' MAINTENANCE DOCUMENTATION, PREVENTIVE MAINTENANCE PROCEDURES AND FREQUENCY, REPAIR PROCEDURES, WIRING AND SYSTEMS DIAGRAMS, LISTS OF SPARE PARTS, AND WARRANTY INFORMATION.

1. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO ASSEMBLE AND PREPARE INFORMATION FOR EACH SYSTEM, SUBSYSTEM, AND PIECE OF EQUIPMENT NOT PART OF A SYSTEM.
2. PREPARE A SEPARATE MANUAL FOR EACH SYSTEM AND SUBSYSTEM, IN THE FORM OF AN INSTRUCTIONAL MANUAL FOR USE BY OWNER'S OPERATING PERSONNEL.

B. CONTENT: FOR EACH SYSTEM, SUBSYSTEM, AND PIECE OF EQUIPMENT NOT PART OF A SYSTEM, INCLUDE SOURCE INFORMATION, MANUFACTURERS' MAINTENANCE DOCUMENTATION, MAINTENANCE PROCEDURES, MAINTENANCE AND SERVICE SCHEDULES, SPARE PARTS LIST AND SOURCE INFORMATION, MAINTENANCE SERVICE CONTRACTS, AND WARRANTIES AND BONDS AS DESCRIBED BELOW.

C. SOURCE INFORMATION: LIST EACH SYSTEM, SUBSYSTEM, AND PIECE OF EQUIPMENT INCLUDED IN MANUAL, IDENTIFIED BY PRODUCT NAME AND ARRANGED TO MATCH MANUAL'S TABLE OF CONTENTS. FOR EACH PRODUCT, LIST NAME, ADDRESS, AND TELEPHONE NUMBER OF INSTALLER OR SUPPLIER AND MAINTENANCE SERVICE AGENT, AND CROSS-REFERENCE SPECIFICATION SECTION NUMBER AND TITLE IN PROJECT MANUAL AND DRAWING OR SCHEDULE DESIGNATION OR IDENTIFIER WHERE APPLICABLE.

D. MANUFACTURERS' MAINTENANCE DOCUMENTATION: INCLUDE THE FOLLOWING INFORMATION FOR EACH COMPONENT PART OR PIECE OF EQUIPMENT:

1. STANDARD MAINTENANCE INSTRUCTIONS AND BULLETINS; INCLUDE ONLY SHEETS PERTINENT TO PRODUCT OR COMPONENT INSTALLED. MARK EACH SHEET TO IDENTIFY EACH PRODUCT OR COMPONENT INCORPORATED INTO THE WORK. IF DATA INCLUDE MORE THAN ONE ITEM IN A TABULAR FORMAT, IDENTIFY EACH ITEM USING APPROPRIATE REFERENCES FROM THE CONTRACT DOCUMENTS. IDENTIFY DATA APPLICABLE TO THE WORK AND DELETE REFERENCES TO INFORMATION NOT APPLICABLE.
    a. PREPARE SUPPLEMENTARY TEXT IF MANUFACTURERS' STANDARD PRINTED DATA ARE NOT AVAILABLE AND WHERE THE INFORMATION IS NECESSARY FOR PROPER OPERATION AND MAINTENANCE OF EQUIPMENT OR SYSTEMS.
2. DRAWINGS, DIAGRAMS, AND INSTRUCTIONS REQUIRED FOR MAINTENANCE, INCLUDING DISASSEMBLY AND COMPONENT REMOVAL, REPLACEMENT, AND ASSEMBLY.
3. IDENTIFICATION AND NOMENCLATURE OF PARTS AND COMPONENTS.
4. LIST OF ITEMS RECOMMENDED TO BE STOCKED AS SPARE PARTS.

E. MAINTENANCE PROCEDURES: INCLUDE THE FOLLOWING INFORMATION AND ITEMS THAT DETAIL ESSENTIAL MAINTENANCE PROCEDURES:

1. TEST AND INSPECTION INSTRUCTIONS.
2. TROUBLESHOOTING GUIDE.
3. PRECAUTIONS AGAINST IMPROPER MAINTENANCE.
4. DISASSEMBLY; COMPONENT REMOVAL, REPAIR, AND REPLACEMENT; AND REASSEMBLY INSTRUCTIONS.
5. ALIGNING, ADJUSTING, AND CHECKING INSTRUCTIONS.
6. DEMONSTRATION AND TRAINING VIDEO RECORDING, IF AVAILABLE.

F. MAINTENANCE AND SERVICE SCHEDULES: INCLUDE SERVICE AND LUBRICATION REQUIREMENTS, LIST OF REQUIRED LUBRICANTS FOR EQUIPMENT, AND SEPARATE SCHEDULES FOR PREVENTIVE AND ROUTINE MAINTENANCE AND SERVICE WITH STANDARD TIME ALLOTMENT.

1. SCHEDULED MAINTENANCE AND SERVICE: TABULATE ACTIONS FOR DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMIANNUAL, AND ANNUAL FREQUENCIES.
2. MAINTENANCE AND SERVICE RECORD: INCLUDE MANUFACTURERS' FORMS FOR RECORDING MAINTENANCE.

G. SPARE PARTS LIST AND SOURCE INFORMATION: INCLUDE LISTS OF REPLACEMENT AND REPAIR PARTS, WITH PARTS IDENTIFIED AND CROSS-REFERENCED TO MANUFACTURERS' MAINTENANCE DOCUMENTATION AND LOCAL SOURCES OF MAINTENANCE MATERIALS AND RELATED SERVICES.

H. MAINTENANCE SERVICE CONTRACTS: INCLUDE COPIES OF MAINTENANCE AGREEMENTS WITH NAME AND TELEPHONE NUMBER OF SERVICE AGENT.

I. WARRANTIES AND BONDS: INCLUDE COPIES OF WARRANTIES AND BONDS AND LISTS OF CIRCUMSTANCES AND CONDITIONS THAT WOULD AFFECT VALIDITY OF WARRANTIES OR BONDS.

1. INCLUDE PROCEDURES TO FOLLOW AND REQUIRED NOTIFICATIONS FOR WARRANTY CLAIMS.

J. DRAWINGS: PREPARE DRAWINGS SUPPLEMENTING MANUFACTURERS' PRINTED DATA TO ILLUSTRATE THE RELATIONSHIP OF COMPONENT PARTS OF EQUIPMENT AND SYSTEMS AND TO ILLUSTRATE CONTROL SEQUENCE AND FLOW DIAGRAMS. COORDINATE THESE DRAWINGS WITH INFORMATION CONTAINED IN RECORD DRAWINGS TO ENSURE CORRECT ILLUSTRATION OF COMPLETED INSTALLATION.

1. DO NOT USE ORIGINAL PROJECT RECORD DOCUMENTS AS PART OF MAINTENANCE MANUALS.

1.9 - PRODUCT MAINTENANCE MANUALS

A. PRODUCT MAINTENANCE MANUAL: ASSEMBLE A COMPLETE SET OF MAINTENANCE DATA INDICATING CARE AND MAINTENANCE OF EACH PRODUCT, MATERIAL, AND FINISH INCORPORATED INTO THE WORK.

B. CONTENT: ORGANIZE MANUAL INTO A SEPARATE SECTION FOR EACH PRODUCT, MATERIAL, AND FINISH. INCLUDE SOURCE INFORMATION, PRODUCT INFORMATION, MAINTENANCE PROCEDURES, REPAIR MATERIALS AND SOURCES, AND WARRANTIES AND BONDS, AS DESCRIBED BELOW.

C. SOURCE INFORMATION: LIST EACH PRODUCT INCLUDED IN MANUAL, IDENTIFIED BY PRODUCT NAME AND ARRANGED TO MATCH MANUAL'S TABLE OF CONTENTS. FOR EACH PRODUCT, LIST NAME, ADDRESS, AND TELEPHONE NUMBER OF INSTALLER OR SUPPLIER AND MAINTENANCE SERVICE AGENT, AND CROSS-REFERENCE SPECIFICATION SECTION NUMBER AND TITLE IN PROJECT MANUAL AND DRAWING OR SCHEDULE DESIGNATION OR IDENTIFIER WHERE APPLICABLE.

D. PRODUCT INFORMATION: INCLUDE THE FOLLOWING, AS APPLICABLE:

1. PRODUCT NAME AND MODEL NUMBER.
2. MANUFACTURER'S NAME.
3. COLOR, PATTERN, AND TEXTURE.
4. MATERIAL AND CHEMICAL COMPOSITION.
5. REORDERING INFORMATION FOR SPECIALLY MANUFACTURED PRODUCTS.

E. MAINTENANCE PROCEDURES: INCLUDE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND THE FOLLOWING:

1. INSPECTION PROCEDURES.
2. TYPES OF CLEANING AGENTS TO BE USED AND METHODS OF CLEANING.
3. LIST OF CLEANING AGENTS AND METHODS OF CLEANING DETRIMENTAL TO PRODUCT.
4. SCHEDULE FOR ROUTINE CLEANING AND MAINTENANCE.
5. REPAIR INSTRUCTIONS.

F. REPAIR MATERIALS AND SOURCES: INCLUDE LISTS OF MATERIALS AND LOCAL SOURCES OF MATERIALS AND RELATED SERVICES.

G. WARRANTIES AND BONDS: INCLUDE COPIES OF WARRANTIES AND BONDS AND LISTS OF CIRCUMSTANCES AND CONDITIONS THAT WOULD AFFECT VALIDITY OF WARRANTIES OR BONDS.

1. INCLUDE PROCEDURES TO FOLLOW AND REQUIRED NOTIFICATIONS FOR WARRANTY CLAIMS.

SECTION 017839 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.2 - SUMMARY

A. SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR PROJECT RECORD DOCUMENTS, INCLUDING THE FOLLOWING:

1. RECORD DRAWINGS.
2. RECORD SPECIFICATIONS.
3. RECORD PRODUCT DATA.
4. MISCELLANEOUS RECORD SUBMITTALS.

B. RELATED REQUIREMENTS:

1. SECTION 017300 "EXECUTION" FOR FINAL PROPERTY SURVEY.
2. SECTION 017700 "CLOSEOUT PROCEDURES" FOR GENERAL CLOSEOUT PROCEDURES.
3. SECTION 017823 "OPERATION AND MAINTENANCE DATA" FOR OPERATION AND MAINTENANCE MANUAL REQUIREMENTS.

1.3 - RECORD DRAWINGS

A. RETAIN "RECORD DIGITAL DATA FILES" PARAGRAPH BELOW FOR MOST PROJECTS; SMALL, SIMPLE PROJECTS MAY NOT REQUIRE DIGITAL FILES.

B. RECORD DIGITAL DATA FILES: IMMEDIATELY BEFORE INSPECTION FOR CERTIFICATE OF SUBSTANTIAL COMPLETION, REVIEW MARKED-UP RECORD PRINTS WITH ARCHITECT/ENGINEER OF RECORD. WHEN AUTHORIZED, PREPARE A FULL SET OF CORRECTED DIGITAL DATA FILES OF THE CONTRACT DRAWINGS, AS FOLLOWS:

1. FORMAT: ANNOTATED PDF ELECTRONIC FILE WITH COMMENT FUNCTION ENABLED.
2. INCORPORATE CHANGES AND ADDITIONAL INFORMATION PREVIOUSLY MARKED ON RECORD PRINTS. DELETE, REDRAW, AND ADD DETAILS AND NOTATIONS WHERE APPLICABLE.
3. REFER INSTANCES OF UNCERTAINTY TO ARCHITECT/ENGINEER OF RECORD FOR RESOLUTION.
4. ARCHITECT WILL FURNISH CONTRACTOR WITH ONE SET OF DIGITAL DATA FILES (ANNOTATED PDF) OF THE CONTRACT DRAWINGS FOR USE IN RECORDING INFORMATION.

C. FORMAT: IDENTIFY AND DATE EACH RECORD DRAWING; INCLUDE THE DESIGNATION "PROJECT RECORD DRAWING" IN A PROMINENT LOCATION.

1. FORMAT: ANNOTATED PDF ELECTRONIC FILE WITH COMMENT FUNCTION ENABLED.
2. RECORD DIGITAL DATA FILES: ORGANIZE DIGITAL DATA INFORMATION INTO SEPARATE ELECTRONIC FILES THAT CORRESPOND TO EACH SHEET OF THE CONTRACT DRAWINGS. NAME EACH FILE WITH THE SHEET IDENTIFICATION. INCLUDE IDENTIFICATION IN EACH DIGITAL DATA FILE.
3. IDENTIFICATION: AS FOLLOWS:
    a. PROJECT NAME.
    b. DATE.
    c. DESIGNATION "PROJECT RECORD DRAWINGS."
    d. NAME OF ARCHITECT/ENGINEER OF RECORD.
    e. NAME OF CONTRACTOR.

1.4 - RECORD SPECIFICATIONS

A. PREPARATION: MARK SPECIFICATIONS TO INDICATE THE ACTUAL PRODUCT INSTALLATION WHERE INSTALLATION VARIES FROM THAT INDICATED IN SPECIFICATIONS, ADDENDA, AND CONTRACT MODIFICATIONS.

1. GIVE PARTICULAR ATTENTION TO INFORMATION ON CONCEALED PRODUCTS AND INSTALLATIONS THAT CANNOT BE READILY IDENTIFIED AND RECORDED LATER.
2. MARK COPY WITH THE PROPRIETARY NAME AND MODEL NUMBER OF PRODUCTS, MATERIALS, AND EQUIPMENT FURNISHED, INCLUDING SUBSTITUTIONS AND PRODUCT OPTIONS SELECTED.
3. RECORD THE NAME OF MANUFACTURER, SUPPLIER, INSTALLER, AND OTHER INFORMATION NECESSARY TO PROVIDE A RECORD OF SELECTIONS MADE.
4. FOR EACH PRINCIPAL PRODUCT, INDICATE WHETHER RECORD PRODUCT DATA HAS BEEN SUBMITTED IN OPERATION AND MAINTENANCE MANUALS INSTEAD OF SUBMITTED AS RECORD PRODUCT DATA.
5. NOTE RELATED CHANGE ORDERS, RECORD PRODUCT DATA, AND RECORD DRAWINGS WHERE APPLICABLE.

B. FORMAT: SUBMIT RECORD SPECIFICATIONS AS ANNOTATED PDF ELECTRONIC FILE OR SCANNED PDF ELECTRONIC FILE(S) OF MARKED-UP PAPER COPY OF SPECIFICATIONS.

1.5 - RECORD PRODUCT DATA

A. RECORDING: MAINTAIN ONE COPY OF EACH SUBMITTAL DURING THE CONSTRUCTION PERIOD FOR PROJECT RECORD DOCUMENT PURPOSES. POST CHANGES AND REVISIONS TO PROJECT RECORD DOCUMENTS AS THEY OCCUR; DO NOT WAIT UNTIL END OF PROJECT.

B. PREPARATION: MARK PRODUCT DATA TO INDICATE THE ACTUAL PRODUCT INSTALLATION WHERE INSTALLATION VARIES SUBSTANTIALLY FROM THAT INDICATED IN PRODUCT DATA SUBMITTAL.

1. GIVE PARTICULAR ATTENTION TO INFORMATION ON CONCEALED PRODUCTS AND INSTALLATIONS THAT CANNOT BE READILY IDENTIFIED AND RECORDED LATER.
2. INCLUDE SIGNIFICANT CHANGES IN THE PRODUCT DELIVERED TO PROJECT SITE AND CHANGES IN MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION.
3. NOTE RELATED CHANGE ORDERS, RECORD SPECIFICATIONS, AND RECORD DRAWINGS WHERE APPLICABLE.

C. FORMAT: SUBMIT RECORD PRODUCT DATA AS ANNOTATED PDF ELECTRONIC FILE OR SCANNED PDF ELECTRONIC FILE(S) OF MARKED-UP PAPER COPY OF PRODUCT DATA.

1. INCLUDE RECORD PRODUCT DATA DIRECTORY ORGANIZED BY SPECIFICATION SECTION NUMBER AND TITLE, ELECTRONICALLY LINKED TO EACH ITEM OF RECORD PRODUCT DATA.

1.6 - MISCELLANEOUS RECORD SUBMITTALS

A. ASSEMBLE MISCELLANEOUS RECORDS REQUIRED BY OTHER SPECIFICATION SECTIONS FOR MISCELLANEOUS RECORD KEEPING AND SUBMITTAL IN CONNECTION WITH ACTUAL PERFORMANCE OF THE WORK. BIND OR FILE MISCELLANEOUS RECORDS AND IDENTIFY EACH, READY FOR CONTINUED USE AND REFERENCE.

B. FORMAT: SUBMIT MISCELLANEOUS RECORD SUBMITTALS AS PDF ELECTRONIC FILE.

1. INCLUDE MISCELLANEOUS RECORD SUBMITTALS DIRECTORY ORGANIZED BY SPECIFICATION SECTION NUMBER AND TITLE, ELECTRONICALLY LINKED TO EACH ITEM OF MISCELLANEOUS RECORD SUBMITTALS.

1.7 - MAINTENANCE OF RECORD DOCUMENTS

A. MAINTENANCE OF RECORD DOCUMENTS: STORE RECORD DOCUMENTS IN THE FIELD OFFICE APART FROM THE CONTRACT DOCUMENTS USED FOR CONSTRUCTION. PROJECT RECORD DOCUMENTS SHALL NOT BE USED FOR CONSTRUCTION PURPOSES. MAINTAIN RECORD DOCUMENTS IN GOOD ORDER AND IN A CLEAN, DRY, LEGIBLE CONDITION, PROTECTED FROM DETERIORATION AND LOSS. PROVIDE ACCESS TO PROJECT RECORD DOCUMENTS FOR LA-Z-BOY CORPORATE, ARCHITECT/ENGINEER OF RECORD, AND OWNER'S REFERENCE DURING NORMAL WORKING HOURS.

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ARCHITECTURAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A0.4

BUILDING SHELL CONSTRUCTION SET

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SECTION 033000 - CAST-IN-PLACE CONCRETE

1.1 - QUALITY ASSURANCE

A. QUALITY STANDARD: ACI 301

B. MOCKUPS TO DEMONSTRATE TYPICAL JOINTS, SURFACE FINISH, TEXTURE,TOLERANCES, FLOOR TREATMENTS, AND STANDARD OF WORKMANSHIP.

1.2 - PRODUCTS

A. FORM FACING MATERIALS

B. STEEL REINFORCEMENT:

1. REINFORCING BARS: DEFORMED
2. WELDED WIRE REINFORCEMENT: PLAIN

C. CONCRETE MATERIALS:

1. PORTLAND CEMENT: ASTM C 150, REFER TO STRUCTURAL DESIGN SPECIFICATIONS FOR INFORMATION, GRAY, SUPPLEMENT WITH FLY ASH.
2. BLENDED HYDRAULIC CEMENT: ASTM C 595, REFER TO STRUCTURAL DESIGN SPECIFICATIONS FOR INFORMATION.
3. SILICA FUME
4. AGGREGATE: NORMAL WEIGHT
5. WATER

D. MIXING: READY MIXED

1.3 - CONCRETE MIXTURES

A. COMPRESSIVE STRENGTH (28 DAYS):

1. FOOTINGS: REFER TO STRUCTURAL DESIGN SPECIFICATIONS FOR INFORMATION.
2. FOUNDATION WALLS: REFER TO STRUCTURAL DESIGN SPECIFICATIONS FOR INFORMATION.
3. SLABS-ON-GRADE: REFER TO STRUCTURAL DESIGN SPECIFICATIONS FOR INFORMATION.

1.4 - INSTALLATION

A. FORMED FINISHES: SMOOTH

B. FLOOR AND SLAB FINISHES:

1. TROWEL: SURFACES EXPOSED TO VIEW OR TO BE COVERED WITH RESILIENT FLOORING, CARPET OR CERAMIC/PORCELAIN TILE.
2. BROOM: EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS.
3. DRY-SHAKE FLOOR HARDENER: ALL INTERIOR SLAB AREAS, LAPIDOLITH OR SUBSTITUTIONS APPROVED BY OWNER.

1.5 - FIELD QUALITY CONTROL

A. TESTING: BY CONTRACTOR/CM AGENCY

B. SPECIAL INSPECTIONS: BY CONTRACTOR/CM SPECIAL INSPECTOR

SECTION 042200 - CONCRETE UNIT MASONRY

1.1 - PERFORMANCE REQUIREMENTS

A. NET-AREA COMPRESSIVE STRENGTHS OF STRUCTURAL UNIT MASONRY: AS INDICATED ON STRUCTURAL DESIGN SPECIFICATIONS.

B. DETERMINE NET-AREA COMPRESSIVE STRENGTH OF MASONRY BY UNIT-STRENGTH METHOD.

1.2 - QUALITY ASSURANCE

A. PRE-CONSTRUCTION TESTING: CONTRACTOR/CONSTRUCTION MANAGER ENGAGED.

B. MOCKUPS OF TYPICAL WALL AREAS.

1.3 - MATERIALS

A. CONCRETE MASONRY UNITS (CMUS):

1. UNITS MADE WITH INTEGRAL WATER REPELLENT FOR EXPOSED UNITS AND WHERE INDICATED.
2. CMUS: NORMAL WEIGHT

B. REINFORCING STEEL: UNCOATED STEEL REINFORCING BARS

C. MASONRY JOINT REINFORCEMENT:

1. EXTERIOR WALLS: HOT-DIP GALVANIZED, CARBON STEEL

D. TIES AND ANCHORS: GALVANIZED STEEL.

1. ADJUSTABLE ANCHORS FOR CONNECTING TO STRUCTURAL STEEL FRAMING
2. ADJUSTABLE ANCHORS FOR CONNECTING TO CONCRETE
3. RIGID ANCHORS

E. EMBEDDED FLASHING:

1. EXPOSED AND PARTIALLY EXPOSED FLASHING: AS INDICATED
2. CONCEALED (FLEXIBLE) FLASHING: THERMOPLASTIC, EPDM OR AS INDICATED

F. USED WITH STAINLESS-STEEL, DRIP EDGE

1. SINGLE-WYTHE CMU FLASHING SYSTEM: POLYETHYLENE FLASHING PANS AND INTERLOCKING WEB COVERS

G. REINFORCING BAR POSITIONERS

H. MORTAR:

1. AGGREGATES, CEMENT, AND LIME THAT HAVE BEEN EXTRACTED AND MANUFACTURED WITHIN 500 MILES (800 KM) OF PROJECT SITE.
2. PORTLAND CEMENT-LIME MORTAR UNLESS OTHERWISE INDICATED
3. PIGMENTED MORTAR FOR EXPOSED MORTAR JOINTS

1.4 - FIELD QUALITY CONTROL

A. TESTING AGENCY: CONTRACTOR/CONSTRUCTION MANAGER ENGAGED
B. INSPECTIONS: LEVEL 1 SPECIAL INSPECTIONS ACCORDING TO THE "INTERNATIONAL BUILDING CODE" AND GOVERNING AUTHORITIES.
C. TESTING: ONE SET OF TESTS FOR EACH 5000 SQ. FT. (MAXIMUM) OF WALL AREA.

1.5 - MASONRY WASTE DISPOSAL

A. CLEAN MASONRY WASTE RECYCLED AS FILL MATERIAL

SECTION 051200 - STRUCTURAL STEEL FRAMING

1.1 - SUMMARY

A. STRUCTURAL STEEL AS CLASSIFIED BY AISC 303

B. GROUT

1.2 - PERFORMANCE REQUIREMENTS

A. FABRICATOR TO SELECT OR COMPLETE CONNECTIONS, AS INDICATED, INCLUDING ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, TO WITHSTAND DESIGN LOADS.

1.3 - QUALITY ASSURANCE

A. FABRICATOR QUALIFICATIONS: AISC-CERTIFIED PLANT, CATEGORY STD.

B. INSTALLER QUALIFICATIONS: AISC-CERTIFIED ERECTOR, CATEGORY ACSE

C. SHOP-PAINTING APPLICATOR QUALIFICATIONS: AISC'S SOPHISTICATED PAINT ENDORSEMENT SSPC-QP 3

D. D. QUALITY STANDARDS: AISC 303, AISC 341, AND AISC 360.

1.4 - MATERIALS

A. STRUCTURAL-STEEL SHAPES: W-SHAPES, CHANNELS, ANGLES, HSS-SHAPES, PLATE AND BAR, COLD-FORMED HOLLOW STRUCTURAL SECTIONS AND STEEL PIPE.

B. BOLTS, NUTS, AND WASHERS: HIGH STRENGTH

C. ANCHOR RODS: HEADED RODS, NUTS, PLATE WASHERS, AND WASHERS

D. CONNECTORS: SHEAR CONNECTORS

E. PRIMER: ZINC OXIDE, OIL

F. GROUT: NONMETALLIC, SHRINKAGE RESISTANT

1.5 - FABRICATION

A. SHOP CONNECTIONS:

1. WELDED CONNECTIONS

B. SURFACE PREPARATION: SSPC-SP 2

C. GALVANIZING: HOT DIP

1.6 - INSTALLATION

A. FIELD CONNECTIONS:

1. HIGH-STRENGTH BOLTS: PRE-TENSIONED
2. WELDED CONNECTIONS

1.7 - FIELD QUALITY CONTROL

A. INDEPENDENT TESTING AGENCY: CONTRACTOR/CONSTRUCTION MANAGER ENGAGED.

SECTION 052100 - STEEL JOIST FRAMING

1.1 - SUMMARY

A. LH-SERIES LONG-SPAN STEEL JOISTS FOR ROOF FRAMING.

B. JOIST GIRDERS FOR ROOF FRAMING.

C. SPECIAL JOISTS FOR ROOF FRAMING, DESIGNED BY MANUFACTURER.

D. JOIST ACCESSORIES, INCLUDING PERMANENT BRIDGING.

1.2 - MATERIALS

A. BOLTS: HIGH-STRENGTH CARBON STEEL

1. FINISH: PLAIN, UNCOATED

B. PRIMER: SSPC-PAINT 15

C. LONG-SPAN STEEL JOISTS:

1. END ARRANGEMENT: UNDER SLUNG
2. TOP-CHORD ARRANGEMENT: PARALLEL

D. JOIST GIRDERS:

1. END ARRANGEMENT: UNDER SLUNG WITH BOTTOM-CHORD EXTENSIONS
2. TOP-CHORD ARRANGEMENT: PARALLEL

1.3 - INSTALLATION

A. CONNECTIONS: WELDED.

1.4 - FIELD QUALITY CONTROL

A. TESTING AGENCY: CONTRACTOR/CONSTRUCTION MANAGER TO ENGAGE AN INDEPENDENT TESTING AGENCY TO INSPECT FIELD WELDS AND BOLTED CONNECTIONS.

SECTION 053100 - STEEL DECKING

1.1 - SUMMARY

A. ROOF DECK

1.2 - QUALITY ASSURANCE

A. FMG LISTING: STEEL ROOF DECK

1.3 - MATERIALS

A. ROOF DECK: PRIME-PAINTED STEEL SHEET
1. PROFILE DEPTH: 1-1/2 INCHES (38 MM)
2. ACCESSORIES: FLEXIBLE CLOSURE STRIPS, POUR STOPS, GIRDER FILLERS, COLUMN CLOSURES, END CLOSURES, Z-CLOSURES, AND COVER PLATES.

1.4 - INSTALLATION

A. ROOF DECK: WELDED

1.5 - FIELD QUALITY CONTROL

A. TESTING AGENCY: CONTRACTOR ENGAGED.

SECTION 054000 - COLD-FORMED METAL FRAMING

1.1 - SUMMARY

A. EXTERIOR AND INTERIOR NON-LOAD-BEARING WALL FRAMING.

1.2 - PERFORMANCE REQUIREMENTS

A. STRUCTURAL PERFORMANCE:

1. DEAD LOADS: AS DETERMINED BY SITE LOCATIONS.
2. LIVE LOADS: AS DETERMINED BY SITE LOCATIONS.
3. ROOF LOADS: AS DETERMINED BY SITE LOCATIONS.
4. SNOW LOADS: AS DETERMINED BY SITE LOCATIONS.
5. WIND LOADS: AS DETERMINED BY SITE LOCATIONS.
6. SEISMIC LOADS: AS DETERMINED BY SITE LOCATIONS.
7. DEFLECTION LIMITS: 1/240 MINIMUM, AS DETERMINED BY SITE LOCATIONS.

B. ENGINEERING DESIGN OF COLD-FORMED METAL FRAMING BY CONTRACTOR.

1.3 - QUALITY ASSURANCE

A. DESIGN STANDARD: AISI'S "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND ITS "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS."

1.4 - MATERIALS

A. STEEL SHEET: ASTM A 1003/A 1003M, STRUCTURAL GRADE, METALLIC COATED.

B. NON-LOAD-BEARING WALL FRAMING: STANDARD C-SHAPED, PUNCHED STEEL STUDS AND U-SHAPED, UN-PUNCHED TRACK.

1. MINIMUM STEEL THICKNESS: 0.0200 INCH (0.508 MM) - 20 GAUGE.
2. VERTICAL DEFLECTION CLIPS, SINGLE DEFLECTION TRACK.

C. FRAMING ACCESSORIES: SUPPLEMENTARY FRAMING, BRACING, BRIDGING, AND SOLID BLOCKING, WEB STIFFENERS, STUD KICKERS AND GIRTS.

D. INSULATION FOR INACCESSIBLE VOIDS.

1.5 - INSTALLATION

A. FASTEN FRAMING BY WELDING OR SCREW FASTENING.

1. EXTERIOR NON-LOAD-BEARING WALL STUD SPACING: 24 INCHES.
2. INTERIOR NON-LOAD-BEARING WALL STUD SPACING: 16 INCHES.

B. AT EXTERIOR WALLS, PROVIDE CONTINUOUS BLOCKING AROUND DOOR AND WINDOW OPENINGS FOR ANCHORAGE OF FRAMES, SECURELY ATTACHED TO STUD FRAMING.

C. PROVIDE BLOCKING ATTACHED TO STUDS AS BACKING AND SUPPORT FOR WALL-MOUNTED ITEMS, UNLESS ITEM CAN BE SECURELY FASTENED TO TWO OR MORE STUDS OR OTHER METHOD OF SUPPORT IS INDICATED.

D. PROVIDE THE FOLLOWING SPECIFIC NON-STRUCTURAL FRAMING AND BLOCKING:

1. CABINETS AND SHELF SUPPORTS.
2. WALL BRACKETS.
3. GRAB BARS.
4. TOILET ROOM ACCESSORIES.

1.6 - FIELD QUALITY CONTROL

A. TESTING: BY CONTRACTOR/CONSTRUCTION MANAGER ENGAGED INDEPENDENT AGENCY.

SECTION 055000 - METAL FABRICATIONS

1.1 PRODUCTS

A. MATERIALS: STEEL PLATES, SHAPES, AND BARS, STEEL TUBING, STEEL PIPE AND SLOTTED CHANNEL FRAMING.

B. MISCELLANEOUS FRAMING AND SUPPORTS: GALVANIZED WHERE INDICATED.

1. STEEL FRAMING AND SUPPORTS FOR OVERHEAD DOORS, COUNTERTOPS, MECHANICAL AND ELECTRICAL EQUIPMENT, AND APPLICATIONS WHERE FRAMING AND SUPPORTS ARE NOT SPECIFIED IN OTHER SECTIONS.

C. METAL LADDERS:

1. LADDERS PRIMED WITH ZINC-RICH PRIMER

D. STRUCTURAL-STEEL DOOR FRAMES:

1. EXTERIOR FRAMES GALVANIZED

E. METAL BOLLARDS: SCHEDULE 40 STEEL PIPE OR STEEL SHAPES, AS INDICATED.

1. PRIMED WITH ZINC-RICH PRIMER

F. DOWNSPOUT GUARDS

1. GALVANIZED

G. METAL DOWNSPOUT BOOTS: ALUMINUM

H. LOOSE BEARING AND LEVELING PLATES, GALVANIZED

I. LOOSE STEEL LINTELS, GALVANIZED AT EXTERIOR WALLS

SECTION 061000 - ROUGH CARPENTRY

1.1 - MATERIALS

A. WOOD PRODUCTS, GENERAL:

1. ROUGH CARPENTRY MATERIALS FSC-CERTIFIED

a. DIMENSION LUMBER FRAMING
b. MISCELLANEOUS LUMBER

2. MAXIMUM MOISTURE CONTENT OF LUMBER: 15 PERCENT FOR 2-INCH NOMINAL (38-MM ACTUAL) THICKNESS OR LESS.

B. FIRE-RETARDANT-TREATED MATERIALS

1. EXTERIOR TYPE BLOCKING FOR EXTERIOR ROOF LOCATIONS AND WHERE INDICATED.
2. APPLICATION: ITEMS INDICATED AND AS FOLLOWS:

a. CONCEALED BLOCKING.
b. PLYWOOD BACKING PANELS.

1.2 - BLOCKING, NAILERS, AND SUPPORTS

A. PROVIDE FRAMING AND BLOCKING MEMBERS AS INDICATED OR AS REQUIRED TO SUPPORT FINISHES, FIXTURES, SPECIALTY ITEMS, AND TRIM.

B. IN METAL STUD WALLS, PROVIDE CONTINUOUS BLOCKING AROUND DOOR AND WINDOW OPENINGS FOR ANCHORAGE OF FRAMES, SECURELY ATTACHED TO STUD FRAMING.

C. IN WALLS, PROVIDE BLOCKING ATTACHED TO STUDS AS BACKING AND SUPPORT FOR WALL-MOUNTED ITEMS, UNLESS ITEM CAN BE SECURELY FASTENED TO TWO OR MORE STUDS OR OTHER METHOD OF SUPPORT IS EXPLICITLY INDICATED.

D. PROVIDE THE FOLLOWING SPECIFIC NONSTRUCTURAL FRAMING AND BLOCKING:

1. CABINETS AND SHELF SUPPORTS.
2. WALL BRACKETS.
3. HANDRAILS.
4. GRAB BARS.
5. TOWEL AND BATH ACCESSORIES.

SECTION 061600 - SHEATHING

1.1 - QUALITY ASSURANCE

A. FOREST CERTIFICATION BY A FOREST STEWARDSHIP COUNCIL-ACCREDITED CERTIFICATION BODY FOR THE FOLLOWING:

1. PLYWOOD.

1.2 - REFERENCE STANDARDS

A. ASTM C1177/C1177M - STANDARD SPECIFICATION FOR GLASS MAT GYPSUM SUBSTRATE FOR USE AS SHEATHING 2017.

1.3 - MATERIALS

A. WOOD PRODUCTS, GENERAL:

1. THE FOLLOWING PRODUCTS FSC-CERTIFIED:

a. PLYWOOD.

B. FIRE-RETARDANT-TREATED PLYWOOD:

1. EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
2. APPLICATION: TREAT ALL PLYWOOD.

C. WALL SHEATHING:

1. PLYWOOD: EXTERIOR, STRUCTURAL I, 5/8 INCH (15.9 MM) THICK TYPICAL AS INDICATED.
2. GYPSUM SHEATHING: 5/8 INCH (15.9 MM) THICK

D. EXTERIOR GYPSUM SHEATHING:

1. GLASS MAT FACED GYPSUM, ASTM C1177/C1177M, 5/8 INCH TYPE X FIRE RESISTANT.
2. EDGES: SQUARE
3. GYPSUM SHEATHING: REFER TO 092900 - GYPSUM BOARD

E. FASTENERS: HOT-DIP GALVANIZED STEEL WHERE EXPOSED TO WEATHER, IN GROUND CONTACT, IN CONTACT WITH TREATED WOOD, OR IN AREA OF HIGH RELATIVE HUMIDITY.

F. MISCELLANEOUS MATERIALS:

1. SHEATHING TAPE.
2. ADHESIVES: LOW VOC.

1.4 - INSTALLATION

A. WOOD STRUCTURAL PANEL:

1. SHEATHING.

B. SCREW TO COLD-FORMED METAL FRAMING.

C. WALL SHEATHING: SECURE WITH LONG DIMENSION PERPENDICULAR TO WALL STUDS, WITH ENDS OVER FIRM BEARING AND STAGGERED , USING SCREWS.

1. PLACE WATER-RESISTIVE BARRIER HORIZONTALLY OVER WALL SHEATHING, WEATHER LAPPING EDGES AND ENDS.

SECTION 064023 - INTERIOR ARCHITECTURAL WOODWORK (BREAK ROOM ONLY)

1.1 - SUMMARY

A. PLASTIC-LAMINATE CABINETS.

B. PLASTIC-LAMINATE COUNTERTOPS.

1.2 - QUALITY ASSURANCE

A. QUALITY STANDARD: AWI QUALITY CERTIFICATION PROGRAM, INCLUDING INSTALLATION.

1.3 - MATERIALS

A. CABINET HARDWARE:

1. HINGES: BUTT, SEMI-CONCEALED.
2. PULLS: WIRE.
3. EXPOSED HARDWARE FINISHES: SATIN CHROMIUM PLATED.

B. PLASTIC-LAMINATE CABINETS:

1. GRADE: CUSTOM.
2. AWI TYPE OF CABINET CONSTRUCTION: FLUSH OVERLAY.
3. WIC DOOR AND DRAWER FRONT STYLE: FLUSH OVERLAY.
4. CABINET INTERIOR: PLASTIC LAMINATE.

C. PLASTIC-LAMINATE COUNTERTOPS:

1. GRADE: CUSTOM.
2. EDGE TREATMENT: SELF-EDGED OR AS INDICATED.

SECTION 071113 - BITUMINOUS DAMP-PROOFING

1.1 - SUMMARY

A. COLD-APPLIED, CUT-BACK ASPHALT DAMP-PROOFING APPLIED TO THE FOLLOWING SURFACES:

1. EXTERIOR, BELOW-GRADE SURFACES OF CONCRETE AND MASONRY FOUNDATION WALLS

1.2 - MATERIALS

A. PROTECTION COURSE: POLYSTYRENE

1.3 - INSTALLATION

A. COLD-APPLIED, CUT-BACK ASPHALT DAMP-PROOFING:

1. CONCRETE FOUNDATIONS AND PARGED MASONRY FOUNDATION WALLS; TWO BRUSH OR SPRAY COATS OR ONE TROWEL COAT.
2. UNPARGED MASONRY FOUNDATION WALLS: PRIMER AND TWO BRUSH OR SPRAY COATS OR PRIMER AND ONE TROWEL COAT.

SECTION 072100 - THERMAL INSULATION

1.1 - MATERIALS

A. INSULATION:

1. EXTRUDED-POLYSTYRENE BOARD: TYPE IV, 25 PSI (173 KPA).
2. MOLDED-POLYSTYRENE BOARD: TYPE VIII, 20 PSI (138 KPA), EXCLUDING EIFS SYSTEM.
3. FOIL-FACED, POLYISOCYANURATE BOARD: TYPE I, CLASS 1.
4. UN-FACED GLASS-FIBER BLANKET: TYPE I.
5. KRAFT-FACED, GLASS-FIBER BLANKET: TYPE II, CLASS C; CATEGORY 1.
6. FOIL-FACED, GLASS-FIBER BLANKET: TYPE III, CLASS B; CATEGORY 1.
7. UN-FACED, MINERAL-WOOL BLANKET: TYPE I.
8. CLOSED-CELL SPRAY POLYURETHANE FOAM: TYPE II, MINIMUM DENSITY OF 1.5 LB/CU. FT. (24 KG/CU. M).

B. VAPOR RETARDERS: POLYETHYLENE OR REINFORCED POLYETHYLENE.

C. AUXILIARY INSULATING MATERIALS:

1. INSULATION FASTENERS.

SECTION 072419 - WATER-DRAINAGE EXTERIOR INSULATION & FINISH SYSTEM (EIFS)

1.1 - SUMMARY

A. WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) APPLIED OVER WATER-RESISTIVE COATING OVER SHEATHING.

1.2 - QUALITY ASSURANCE

A. FIRE-RESISTANCE CHARACTERISTICS: TESTED PER ASTM E 119.

B. MOCKUPS FOR EACH FORM OF CONSTRUCTION AND FINISH.

1.3 - MATERIALS

A. WATER-RESISTIVE COATINGS: EIFS MANUFACTURER'S STANDARD FORMULATION AND ACCESSORIES COMPLYING WITH PHYSICAL AND PERFORMANCE CRITERIA OF LOCAL CODE.

B. FLEXIBLE-MEMBRANE FLASHING: FLUID APPLIED WITH REINFORCING MESH SCRIM OR COLD-APPLIED, FULLY SELF-ADHERING, SELF-HEALING, RUBBERIZED-ASPHALT.

C. BOARD INSULATION: MOLDED RIGID CELLULAR POLYSTYRENE. MINIMUM 2" THICKNESS.

D. REINFORCING MESH: HIGH IMPACT MESH ASSEMBLY TO 7'-0" A.F.F. AROUND ENTIRE PERIMETER; STANDARD IMPACT ASSEMBLY ABOVE 7'-0".

E. BASE-COAT AND ADHESIVE MATERIALS: JOB-MIXED PORTLAND CEMENT AND POLYMER-EMULSION OR FACTORY-BLENDED POLYMER-EMULSION AND PORTLAND CEMENT DRY MIX TO WHICH ONLY WATER IS ADDED.

F. FINISH-COAT MATERIALS: STANDARD ACRYLIC-BASED COATING WITH STATROTONE COLORANT AS SPECIFIED IN FINISH SCHEDULE.

G. TRIM ACCESSORIES: PVC.

1. TYPE: WEEP SCREED/TRACK, IF APPLICABLE.
2. ELASTOMERIC SEALANTS: MULTI-COMPONENT, NON-SAG URETHANE OR SILICONE.

1.4 - INSTALLATION

A. INSULATION: IN ACCORDANCE WITH EIFS MANUFACTURERS CURRENT APPLICATION INSTRUCTIONS.

B. EXPANSION JOINTS:

1. WHERE REQUIRED BY EIFS MANUFACTURER. OR
2. WHERE EXPANSION JOINTS ARE IN SUBSTRATES BEHIND EIFS. OR
3. WHERE EIFS ADJOIN DISSIMILAR SUBSTRATES, MATERIALS, AND CONSTRUCTION.
4. WHERE WALL HEIGHT CHANGES. OR
5. AT MAXIMUM 75'-0" INTERVAL; COORDINATE WITH V-GROOVE LAYOUT.

C. DOUBLE-LAYER REINFORCING MESH APPLICATION: WHERE INDICATED.

D. FINISH COAT: APPLIED OVER BASE COAT.

1.5 - FIELD QUALITY CONTROL

A. SPECIAL INSPECTIONS: AS REQUIRED BY LOCAL JURISDICTION PROVIDED BY CONTRACTOR-ENGAGED AGENCY.

1.6 - PRODUCTS

A. DRYVIT OUTSULATION PLUS MD SYSTEM.

B. APPROVED EQUALS SUBJECT TO APPROVAL BY LZB.

C. DRYVIT NATIONAL VENDOR ACCOUNT CONTACT INFORMATION:

WES PRICE
TERRITORY MANAGER, OFFSITE SOLUTIONS
TREMCO COMMERCIAL SEALANTS & WATERPROOFING
MOBILE PHONE: 443-546-7564, WPRICE@TREMCOINC.COM

SECTION 072500 - WEATHER BARRIERS

1.1 - SECTION INCLUDES

A. WATER-RESISTIVE BARRIERS.

1.2 - RELATED REQUIREMENTS

A. SECTION 072400 - EXTERIOR INSULATION AND FINISH SYSTEMS: WATER-RESISTIVE BARRIER UNDER EXTERIOR INSULATION.

1.3 - DEFINITIONS

A. WEATHER BARRIERS: ASSEMBLIES THAT FORM EITHER WATER-RESISTIVE BARRIERS, AIR BARRIERS, OR VAPOR RETARDERS.

B. WATER-RESISTIVE BARRIER: A MATERIAL BEHIND AN EXTERIOR WALL COVERING THAT IS INTENDED TO RESIST LIQUID WATER THAT HAS PENETRATED BEHIND THE EXTERIOR COVERING FROM FURTHER INTRUDING INTO THE EXTERIOR WALL ASSEMBLY.

1.4 - REFERENCE STANDARDS

A. ASTM D226/D226M - STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING 2017 (REAPPROVED 2023).

B. ICC-ES AC212 - ACCEPTANCE CRITERIA FOR WATER-RESISTIVE COATINGS USED AS WATER-RESISTIVE BARRIERS OVER EXTERIOR SHEATHING 2015, WITH EDITORIAL REVISION (2020).

1.5 - SUBMITTALS

A. PRODUCT DATA: PROVIDE DATA ON MATERIAL CHARACTERISTICS.

B. SHOP DRAWINGS: PROVIDE DRAWINGS OF SPECIAL JOINT CONDITIONS.

C. MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE PREPARATION, INSTALLATION METHODS, AND STORAGE AND HANDLING CRITERIA.

1.6 - MOCK-UPS

A. CONSTRUCT WEATHER BARRIER MOCK-UP, 8 FEET LONG BY 10 FEET WIDE, INDICATING TYPICAL INSTALLATION PROCEDURES.

B. MOCK-UP MAY REMAIN AS PART OF WORK.

2.1 - WATER-RESISTIVE BARRIER MATERIALS

A. ASPHALT FELT: ASTM D226/D226M, TYPE I, NO.15 ASPHALT FELT.

B. WATER-RESISTIVE BARRIER COATING: FLUID-APPLIED AIR AND WATER-RESISTIVE COATING FOR VARIOUS EXTERIOR SUBSTRATES ; VAPOR PERMEABLE.

1. DRY FILM THICKNESS (DFT): 17 MILS, 0.017 INCH, MINIMUM.
2. AIR PERMEANCE, BUILDING ASSEMBLY AIR LEAKAGE RATE: NOT GREATER THAN 0.04 CFM/SQ FT WHEN TESTED AT 1.57 PSF IN ACCORDANCE WITH ASTM E2357.
3. AIR PERMEANCE, BUILDING MATERIAL AIR LEAKAGE RATE: 0.004 CFM/SQ FT MAXIMUM LEAKAGE WHEN TESTED AT 1.57 PSF PRESSURE DIFFERENCE IN ACCORDANCE WITH ASTM E2178.
4. WATER-RESISTIVE BARRIER OVER SHEATHING COMPLIANCE: COMPLYING WITH ICC-ES AC212.
5. WATER VAPOR PERMEANCE: TESTED IN ACCORDANCE WITH ASTM E96/E96M.

a. PROCEDURE A: GREATER THAN 5 PERMS.
b. PROCEDURE B: GREATER THAN 14 PERMS.

6. ULTRAVIOLET (UV) AND WEATHERING RESISTANCE: APPROVED BY MANUFACTURER FOR UP TO 180 DAYS OF WEATHER EXPOSURE.
7. SYSTEM ACCESSORY PRODUCTS: AS RECOMMENDED BY COATING MANUFACTURER.
8. PRODUCTS: BaskStop NTX by Tremco.

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ARCHITECTURAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A0.5

BUILDING SHELL CONSTRUCTION SET

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SECTION 072500 - WEATHER BARRIERS (CONTINUED)

2.2 - ACCESSORIES

A. SEALANTS, TAPES, AND ACCESSORIES USED FOR SEALING WATER-RESISTIVE BARRIER AND ADJACENT SUBSTRATES: AS INDICATED OR COMPLYING WITH WATER-RESISTIVE BARRIER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3.2 - PREPARATION

A. REMOVE PROJECTIONS, PROTRUDING FASTENERS, AND LOOSE OR FOREIGN MATTER THAT MIGHT INTERFERE WITH PROPER INSTALLATION.

B. CLEAN AND PRIME SUBSTRATE SURFACES TO RECEIVE ADHESIVES AND SEALANTS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3.3 - INSTALLATION

A. MECHANICALLY FASTENED EXTERIOR SHEETS:

1. INSTALL SHEETS SHINGLE-FASHION TO SHED WATER, WITH SEAMS ALIGNED HORIZONTAL.
2. OVERLAP SEAMS AS RECOMMENDED BY MANUFACTURER, 6 INCHES, MINIMUM.
3. OVERLAP AT OUTSIDE AND INSIDE CORNERS AS RECOMMENDED BY MANUFACTURER, 12 INCHES, MINIMUM.
4. INSTALL WATER-RESISTIVE BARRIER OVER JAMB FLASHINGS.
5. INSTALL HEAD FLASHINGS UNDER WATER-RESISTIVE BARRIER.
6. AT FRAMED OPENINGS WITH FRAMES HAVING NAILING FLANGES, EXTEND SHEET INTO OPENING AND OVER FLANGES; AT HEAD OF OPENING, SEAL SHEET OVER FLANGE AND FLASHING.

B. COATINGS:

1. PREPARE SUBSTRATE IN ACCORDANCE WITH COATING MANUFACTURER'S INSTALLATION INSTRUCTIONS; TREAT JOINTS IN SUBSTRATE AND BETWEEN DISSIMILAR MATERIALS AS INDICATED.
2. APPLY BEAD OR TROWEL COAT OF MASTIC SEALANT WITH MINIMUM THICKNESS OF 1/4 INCH ALONG COATING SEAMS, ROUGH CUTS, AND AS RECOMMENDED BY MANUFACTURER.
3. APPLY FLASHING TO SEAL WITH ADJACENT CONSTRUCTION AND TO BRIDGE JOINTS IN COATING SUBSTRATE.

C. OPENINGS AND PENETRATIONS IN EXTERIOR WATER-RESISTIVE BARRIERS:

1. INSTALL FLASHING OVER SILLS, COVERING ENTIRE SILL FRAMING MEMBER, AND EXTEND AT LEAST 5 INCHES ONTO WATER-RESISTIVE BARRIER AND AT LEAST 6 INCHES UP JAMBS; MECHANICALLY FASTEN STRETCHED EDGES.
2. AT OPENINGS FILLED WITH NONFLANGED FRAMES, SEAL WATER-RESISTIVE BARRIER TO EACH SIDE OF FRAMING AT OPENING USING FLASHING AT LEAST 9 INCHES WIDE, AND COVERING ENTIRE DEPTH OF FRAMING.
3. AT HEAD OF OPENINGS, INSTALL FLASHING UNDER WATER-RESISTIVE BARRIER EXTENDING AT LEAST 2 INCHES BEYOND FACE OF JAMBS; SEAL WATER-RESISTIVE BARRIER TO FLASHING.
4. AT INTERIOR FACE OF OPENINGS, SEAL GAPS BETWEEN WINDOW AND DOOR FRAMES AND ROUGH FRAMING USING APPROPRIATE JOINT SEALANT OVER BACKER ROD.
5. SERVICE AND OTHER PENETRATIONS: FORM FLASHING AROUND PENETRATING ITEMS.

3.4 - FIELD QUALITY CONTROL

A. OWNER'S INSPECTION AND TESTING: COOPERATE WITH OWNER'S TESTING AGENCY.

1. ALLOW ACCESS TO WORK AREAS AND STAGING.
2. NOTIFY OWNER'S TESTING AGENCY IN WRITING OF SCHEDULE FOR WORK OF THIS SECTION TO ALLOW SUFFICIENT TIME FOR TESTING AND INSPECTION.
3. DO NOT COVER WORK OF THIS SECTION UNTIL TESTING AND INSPECTION IS ACCEPTED.

B. DO NOT COVER INSTALLED WATER-RESISTIVE BARRIERS UNTIL REQUIRED INSPECTIONS HAVE BEEN COMPLETED.

C. OBTAIN APPROVAL OF INSTALLATION PROCEDURES FROM WATER-RESISTIVE BARRIER MANUFACTURER BASED ON A MOCK-UP INSTALLED IN PLACE, PRIOR TO PROCEEDING WITH REMAINDER OF INSTALLATION.

D. TAKE DIGITAL PHOTOGRAPHS OF EACH PORTION OF INSTALLATION PRIOR TO COVERING UP WEATHER BARRIERS.

3.5 - PROTECTION

A. DO NOT LEAVE MATERIALS EXPOSED TO WEATHER LONGER THAN RECOMMENDED BY MANUFACTURER.

B. DO NOT LEAVE PAPER- OR FELT-BASED BARRIERS EXPOSED TO WEATHER FOR LONGER THAN ONE WEEK.

SECTION 075423 - THERMOPLASTIC POLYOLEFIN (TPO) ROOFING

1.1 - SUMMARY

A. FULLY ADHERED TPO MEMBRANE ROOFING SYSTEM

B. VAPOR RETARDER

C. ROOF INSULATION

1.2 - PERFORMANCE REQUIREMENTS

A. ROOFING SYSTEM DESIGN: UPLIFT PRESSURES CALCULATED ACCORDING TO ASCE LOCAL CODES.

B. FM APPROVALS LISTING: CLASS 1A-90

1.3 - QUALITY ASSURANCE

A. EXTERIOR FIRE-TEST EXPOSURE: CLASS A

B. PRE-INSTALLATION CONFERENCE

1.4 - WARRANTY

A. MANUFACTURER'S MATERIALS AND WORKMANSHIP WARRANTY: 10 YEARS

B. INSTALLER'S WARRANTY: TWO YEARS

C. WEATHER-TIGHT WARRANTY: 15 YEARS, NO DOLLAR LIMIT

1.5 - MATERIALS

A. TPO MEMBRANE ROOFING: ASTM D 6878, INTERNALLY FABRIC REINFORCED, UNIFORM, FLEXIBLE TPO SHEET.

1. THICKNESS: 60 MILS (1.5 MM)
2. COLOR: WHITE

B. SHEET FLASHING: SAME AS TPO SHEET MEMBRANE.

C. SUBSTRATE BOARD, IF REQUIRED BY ROOF MANUFACTURER: CELLULOSIC-FIBER-REINFORCED BOARD.

D. VAPOR RETARDER, IF REQUIRED BY ROOF MANUFACTURER: POLYETHYLENE FILM OR GLASS-FIBER FELTS.

E. ROOF INSULATION: EXTRUDED-POLYSTYRENE OR COMPOSITE POLYISOCYANURATE BOARD.

1. TAPERED BOARDS: 1/4 INCH PER 12 INCHES (1:48) MINIMUM.

F. COVER BOARD, IF REQUIRED BY ROOF MANUFACTURER: CELLULOSIC-FIBER INSULATION BOARD, GLASS-MAT, WATER-RESISTANT GYPSUM SUBSTRATE, CELLULOSIC-FIBER-REINFORCED.

G. WALKWAYS: PADS.

1.6 - INSTALLATION

A. ROOF INSULATION: MECHANICALLY FASTENED

1. MEMBRANE ROOFING: ADHERED

SECTION 077100 - ROOF SPECIALTIES

1.1 - PERFORMANCE REQUIREMENTS

A. COPINGS: FM APPROVALS LISTED.

1. FM WINDSTORM CLASSIFICATION: CLASS 1-90 MINIMUM.

B. ROOF-EDGE FLASHING: FM APPROVALS LISTED.

1. FM WINDSTORM CLASSIFICATION: CLASS 1-90 MINIMUM.

1.2 - WARRANTY

PAINTED FINISHES: TEN YEARS.

1.3 - PRODUCTS

A. COPINGS: FORMED ALUMINUM, FACTORY PREFINISHED, COLOR TO MATCH WALL FINISH BELOW COPING.

B. COLOR SELECTIONS:

1. PAC-CLAD
   a. OVER MEDIUM BROWN EIFS - MEDIUM BRONZE
   b. OVER MEDIUM CREAM EIFS - ALMOND
   c. OVER DARK BROWN EIFS - DARK BRONZE
2. FIRESTONE UNA-CLAD
   a. OVER MEDIUM BROWN EIFS - MEDIUM BRONZE
   b. OVER MEDIUM CREAM EIFS - SANDSTONE
   c. OVER DARK BROWN EIFS - DARK BRONZE

C. ROOF-EDGE FLASHING:

1. ROOF-EDGE FASCIA: FORMED ALUMINUM, FACTORY PREFINISHED COLOR, COLOR TO MATCH WALL FINISH BELOW FLASHING.

D. ROOF-EDGE DRAINAGE SYSTEMS:

1. GUTTERS: FORMED ALUMINUM, FACTORY PREFINISHED MEDIUM BRONZE. COLOR
2. DOWNSPOUTS: FORMED ALUMINUM, FACTORY PREFINISHED, MEDIUM BRONZE. COLOR
3. CONDUCTOR HEADS: FORMED ALUMINUM.

E. FINISHES:

1. ALUMINUM: MINIMUM TWO-COAT FLUOROPOLYMER.

SECTION 077200 - ROOF ACCESSORIES

1.1 - WARRANTY

A. PAINTED FINISHES: 10 YEARS

1.2 - PRODUCTS

A. ROOF CURBS. INSULATED WITH INTERIOR METAL LINER.

1. HEIGHT: MINIMUM 2 INCHES (300 MM)
2. MATERIAL: ALUMINUM
3. FINISH: TWO-COAT FLUOROPOLYMER
4. INTEGRAL SPRING-TYPE VIBRATION ISOLATORS

B. EQUIPMENT SUPPORTS: INSULATED WITH INTERIOR METAL LINER.

1. HEIGHT: MINIMUM 12 INCHES (300 MM)
2. MATERIAL: ZINC-COATED (GALVANIZED) STEEL
3. FINISH: BAKED ENAMEL OR POWDER COAT
4. SECURITY GRILLE WHERE INDICATED

C. ROOF HATCHES: INSULATED WITH DOUBLE-WALLED CURBS.

1. HEIGHT: MINIMUM 12 INCHES (300 MM)
2. HATCH LID: OPAQUE
3. MATERIAL: ALUMINUM
4. FINISH: CLEAR ANODIC ALUMINUM
5. ACCESSORIES: LADDER-ASSIST POST

SECTION 079200 - JOINT SEALANTS

1.1 - PRE-CONSTRUCTION TESTING

A. PRE-CONSTRUCTION COMPATIBILITY AND ADHESION TESTING.

B. PRE-CONSTRUCTION FIELD-ADHESION TESTING.

1.2 - WARRANTY

A. INSTALLER WARRANTY: TWO YEARS.

1.3 - MATERIALS

A. VOC CONTENT OF INTERIOR SEALANTS:

1. ARCHITECTURAL SEALANTS: 250 G/L.
2. SEALANT PRIMERS FOR NONPOROUS SUBSTRATES: 250 G/L.
3. SEALANT PRIMERS FOR POROUS SUBSTRATES: 775 G/L.

B. STAIN TEST: ASTM C 1248.

1.4 - JOINT SEALANTS

A. MILDEW-RESISTANT, NEUTRAL-CURING, SILICONE JOINT SEALANT:

1. TYPE: SINGLE COMPONENT.
2. GRADE: NON-SAG.
3. CLASS: 100/50.
4. USES RELATED TO EXPOSURE: NON-TRAFFIC.

B. URETHANE JOINT SEALANT:

1. TYPE: MULTI-COMPONENT.
2. GRADE: POURABLE.
3. CLASS: 100/50.
4. USES RELATED TO EXPOSURE: TRAFFIC.

C. IMMERSIBLE POLYSULFIDE JOINT SEALANT:

1. TYPE: MULTI-COMPONENT.
2. GRADE: POURABLE
3. CLASS: 25.
4. USES RELATED TO EXPOSURE: IMMERSIBLE.

D. LATEX JOINT SEALANT: ACRYLIC LATEX OR SILICONIZED ACRYLIC LATEX.

E. SOLVENT-RELEASE-CURING JOINT SEALANT: BUTYL RUBBER.

F. PREFORMED JOINT SEALANT: PREFORMED SILICONE.

G. ACOUSTICAL JOINT SEALANT: NON-SAG, PAINTABLE, NON-STAINING LATEX.

H. JOINT-SEALANT BACKING: BOND-BREAKER TAPE.

1.5 - FIELD QUALITY CONTROL

A. FIELD-ADHESION TESTING.

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

1.1 - SUMMARY

A. STANDARD HOLLOW METAL DOORS AND FRAMES.

1.2 - QUALITY ASSURANCE

A. STANDARD HOLLOW METAL QUALITY STANDARD: ANSI/SDI A250.8 (OR LOCAL CODE).

1.3 - PRODUCTS

A. STANDARD HOLLOW METAL DOORS:

1. DESIGN: FLUSH PANEL OR AS INDICATED.
2. THERMAL-RATED DOORS: EXTERIOR, THERMAL RESISTANCE U-0.34.

B. EXTERIOR DOORS:

1. METALLIC-COATED STEEL SHEET FACES.
2. LEVEL 1 AND PHYSICAL PERFORMANCE LEVEL A (HEAVY DUTY).

C. INTERIOR DOORS:

1. COLD-ROLLED STEEL SHEET FACES (UNLESS METALLIC-COATED SHEET IS INDICATED)
2. LEVEL 1 AND PHYSICAL PERFORMANCE LEVEL C (STANDARD DUTY).

D. STANDARD HOLLOW METAL FRAMES:

1. EXTERIOR FRAMES: METALLIC-COATED STEEL SHEET; FULL PROFILE WELDED.
2. FRAMES FOR LEVEL 4 STEEL DOORS: 0.067-INCH- (1.7-MM-) THICK STEEL SHEET.
3. INTERIOR FRAMES: COLD-ROLLED STEEL SHEET; FULL PROFILE WELDED OR KNOCK DOWN.
4. FRAMES FOR LEVEL 2 STEEL DOORS: 0.053-INCH- (1.3-MM-) THICK STEEL SHEET.

E. HOLLOW METAL PANELS: SAME MATERIALS, CONSTRUCTION, AND FINISH AS ADJOINING HOLLOW METAL WORK.

F. ACCESSORIES:

1. MOLDINGS AND STOPS FOR GLAZED LITES.
2. LOUVERS: SIGHT-PROOF STEEL.

G. FINISHES: FACTORY PRIMING FOR FIELD PAINTING.

1.4 - INSTALLATION

A. METAL-STUD PARTITIONS: FRAMES FILLED WITH INSULATION.

B. CONCRETE AND MASONRY WALLS: FRAMES FILLED WITH GROUT.

SECTION 083613 - SECTIONAL DOORS

1.1 - PERFORMANCE REQUIREMENTS

A. BASIC WIND SPEED, EXTERIOR DOORS: TO BE DETERMINED DUE TO SPECIFIC SITE CONDITIONS.

B. AIR INFILTRATION: MAXIMUM RATE OF 0.08 CFM/SQ. FT. (0.406 L/S PER SQ. M)

C. WINDBORNE-DEBRIS-IMPACT-RESISTANCE PERFORMANCE

D. SEISMIC PERFORMANCE

1.2 - QUALITY ASSURANCE

A. STANDARD FOR SECTIONAL DOORS: DASMA 102

1.3 - WARRANTY

A. MATERIALS AND WORKMANSHIP: TWO YEARS

B. FINISH: 10 YEARS FOR FACTORY-APPLIED FINISHES

1.4 - DOOR ASSEMBLY AS INDICATED ON DRAWINGS

A. STEEL SECTIONAL DOOR

B. R-VALUE: R-16 MINIMUM

C. STEEL SECTIONS: GALVANIZED STEEL SECTIONS 2 INCHES (51 MM NOMINAL) THICK WITH FLAT EXTERIOR SURFACE AND GALVANIZED STEEL INTERIOR FACING.

D. TRACK CONFIGURATION: STANDARD-LIFT TRACK

E. WEATHER SEALS

1. ELECTRIC DOOR OPERATOR: LIGHT DUTY, UP TO 10 CYCLES PER HOUR OBSTRUCTION-DETECTION DEVICE.

SECTION 084113 - ALUMINUM FRAMED ENTRANCES & STOREFRONTS

1.1 - SUMMARY

A. EXTERIOR STOREFRONT FRAMING.

B. EXTERIOR MANUAL-SWING ENTRANCE DOORS AND DOOR-FRAME UNITS.

1.2 - PERFORMANCE REQUIREMENTS

A. DELEGATED DESIGN: CONTRACTOR TO DESIGN ALUMINUM-FRAMED SYSTEMS.

B. STRUCTURAL PERFORMANCE:

1. WIND LOADS: AS INDICATED ON DRAWINGS TO BE DETERMINED DUE TO SPECIFIC SITE CONDITIONS.
2. SEISMIC LOADS: AS INDICATED ON DRAWINGS TO BE DETERMINED DUE TO SPECIFIC SITE CONDITIONS.

C. DEFLECTION OF FRAMING MEMBERS:

1. DEFLECTION NORMAL TO WALL PLANE: LIMITED TO L/240
2. DEFLECTION PARALLEL TO GLAZING PLANE: LIMITED TO L/360 OR 1/8 INCH (3.2 MM), WHICHEVER IS SMALLER.

1.3 - QUALITY ASSURANCE

A. QUALITY-CONTROL PROGRAM FOR STRUCTURAL-SEALANT-GLAZED SYSTEM.

B. PRE-CONSTRUCTION SEALANT TESTING.

C. MOCKUPS FOR EACH FORM OF CONSTRUCTION AND FINISH.

1.4 - WARRANTY

A. MATERIALS AND WORKMANSHIP: 10 YEARS.

B. FINISH: 10 YEARS.

1.5 - MAINTENANCE SERVICE

A. ENTRANCE DOOR HARDWARE: 1 YEAR.

B. STRUCTURAL-SEALANT-GLAZED SYSTEMS: 12 MONTHS.

1.6 - MATERIALS

A. ALUMINUM: ALLOY AND TEMPER RECOMMENDED BY MANUFACTURER.

B. STEEL REINFORCEMENT.

1.7 - FRAMING SYSTEMS

A. FRAMING MEMBERS: MANUFACTURER'S STANDARD EXTRUDED-ALUMINUM FRAMING MEMBERS.

1. CONSTRUCTION: THERMALLY BROKEN.
2. GLAZING SYSTEM: RETAINED MECHANICALLY WITH GASKETS ON FOUR SIDES

B. GLAZING PLANE: AS INDICATED

C. BRACKETS AND REINFORCEMENTS.

D. FASTENERS AND ACCESSORIES.

E. CONCEALED FLASHING: MANUFACTURER'S STANDARD CORROSION-RESISTANT, NON-STAINING, NON-BLEEDING FLASHING FRAMING SYSTEM GASKETS AND SEALANTS.

1.8 - GLAZING SYSTEMS

A. GLAZING: AS SPECIFIED IN DIVISION 08 SECTION "GLAZING."

B. GLAZING GASKETS.

C. SPACERS AND SETTING BLOCKS.

D. BOND-BREAKER TAPE.

E. GLAZING SEALANTS:

1. STRUCTURAL SEALANT.
2. WEATHER SEAL SEALANT.

1.9 - ENTRANCE DOOR SYSTEMS

A. ENTRANCE DOORS:

1. DOOR CONSTRUCTION: 1-3/4-INCH (44.5-MM) OVERALL THICKNESS.
2. DOOR DESIGN: MEDIUM STILE.
3. GLAZING STOPS AND GASKETS.

B. ENTRANCE DOOR HARDWARE: AS SCHEDULED

1.10 - ALUMINUM FINISHES

A. ALUMINUM FINISHES: CLASS I, CLEAR ANODIC

1.11 - SOURCE QUALITY CONTROL

A. TESTING AGENCY: CONTRACTOR/ CONSTRUCTION MANAGER - ENGAGED.

B. STRUCTURAL-SEALANT-GLAZED SYSTEMS: TESTED AND INSPECTED ACCORDING TO ASTM C 1401 RECOMMENDATIONS.

1.12 - FIELD QUALITY CONTROL

A. TESTING: BY CONTRACTOR/ CONSTRUCTION MANAGER - ENGAGED AGENCY.

SECTION 087100 - DOOR HARDWARE

1.1 - SUMMARY

A. MECHANICAL DOOR HARDWARE FOR SWINGING DOORS.

B. CYLINDERS FOR DOOR HARDWARE.

C. ELECTRIFIED LOCAL (AUDIBLE) ALARM DOOR HARDWARE.

1.2 - WARRANTY

A. MATERIALS AND WORKMANSHIP: THREE YEARS.

1.3 - MAINTENANCE SERVICE

A. FULL-MAINTENANCE SERVICE: SIX MONTHS.

1.4 - PRODUCTS

A. SCHEDULED DOOR HARDWARE: PRODUCTS SCHEDULED IN "DOOR HARDWARE SCHEDULE" SEE ARCHITECTURAL DRAWINGS.

1.5 - FIELD QUALITY CONTROL

A. INDEPENDENT ARCHITECTURAL HARDWARE CONSULTANT: CONTRACTOR - ENGAGED TO PERFORM INSPECTIONS.

B. OCCUPANCY ADJUSTMENT: AFTER THREE AND ELEVEN MONTHS.

1.6 - DOOR HARDWARE SCHEDULE

A. SEE ARCHITECTURAL DRAWINGS.

1.7 - KEYING

A. PROVIDE TEMPORARY CONSTRUCTION CORES, CHANGE OUT TO PERMANENT CORES AT COMPLETION OF PROJECT. KEY TO MASTER AND COORDINATE WITH LZB REPRESENTATIVES. PROVIDE 5 SETS OF EACH KEY INCLUDING MASTER AT COMPLETION OF PROJECT.

SECTION 088000 - GLAZING

1.1 - SUMMARY

A. GLAZING REQUIRED FOR THE FOLLOWING:

1. DOORS.
2. STOREFRONT FRAMING.

1.2 - PERFORMANCE REQUIREMENTS

A. ENGINEERING DESIGN OF GLASS BY CONTRACTOR.

1.3 - QUALITY ASSURANCE

A. MOCKUPS FOR ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

1.4 - WARRANTY

INSULATING GLASS: NOT LESS THAN 10 YEARS.

1.5 - MATERIALS

A. GLAZING GASKETS: DENSE COMPRESSION OR LOCK STRIP.

B. SILICONE GLAZING SEALANTS: NEUTRAL CURING, CLASS 100/50

C. GLAZING TAPES: BACK-BEDDING-MASTIC TYPE.

1.6 - MONOLITHIC-GLASS TYPES

A. GLASS TYPE FULLY TEMPERED FLOAT GLASS.

1.7 - INSULATING GLASS TYPES

A. GLASS TYPE: LOW E-COATED, CLEAR INSULATING GLASS.

1. OUTDOOR LITE: HEAT-STRENGHTHENED FLOAT GLASS OR FULLY TEMPERED FLOAT GLASS AS DESIGNATED ON DRAWINGS.
2. INDOOR LITE: HEAT-STRENGTHENED FLOAT GLASS OR FULLY TEMPERED FLOAT GLASS.

SECTION 092900 - GYPSUM BOARD

1.1 - MATERIALS

A. INTERIOR GYPSUM BOARD:

1. GYPSUM WALLBOARD.
2. IMPACT-RESISTANT GYPSUM BOARD.
3. MOISTURE- RESISTANT GYPSUM BOARD.
4. GYPSUM SHEATHING.

B. TRIM ACCESSORIES:

1. INTERIOR.
2. ALUMINUM: EXTRUDED PROFILES.

C. TEXTURE FINISHES:

1. NON-AGGREGATE FINISH.

D. AUXILIARY MATERIALS:

1. LAMINATING ADHESIVE: LOW VOC.
2. ACOUSTICAL JOINT SEALANT: LOW VOC.

E. EXTERIOR SHEATHING BOARD:

1. GLASS MAT FACED SHEATHING AS DEFINED IN ASTMC1177/C1177M.
2. EDGES: SQUARE.

F. CONTROL JOINTS:

1. LOCATE AT WINDOW CORNERS, COLUMN CORNERS WHERE POSSIBLE. MAX. SPACING 50'-0" ON CENTER. DO NOT INSTALL CONTROL JOINTS IN AREAS SCHEDULED TO RECEIVE VINYL GRAPHICS.
2. DETAIL PER DRYWALL MANUFACTURER'S RECOMMENDATIONS.

G. LEVELS OF GYPSUM BOARD FINISH

1. PER GYPSUM ASSOCIATION 214-10.
2. LEVEL 1 - ABOVE CEILINGS AND IN AREAS CONCEALED FROM VIEW.
3. LEVEL 4 - ALL AREAS EXPOSED TO VIEW EXCLUDING WALLS SCHEDULED TO RECEIVE VINYL GRAPHICS.
4. LEVEL 5 - WALL AREAS SCHEDULED TO RECEIVE VINYL GRAPHICS.

H. METAL STUD FRAMING

1. FRAMING INSTALLATION PER ASTM C-745, DEFLECTION L/360.
2. AT INTERIOR WALLS, MIN. 20 GAUGE STUD FRAMING AT 16" O.C.
3. PROVIDE STEEL BAR BRACING AT 48" O.C.

SECTION 093000 - TILING

1.1 - QUALITY ASSURANCE

A. MOCKUP FOR FLOOR TILE INSTALLATION

1.2 SUMMARY

A. PORCELAIN TILE

B. SURFACE PREPARATION

C. WATERPROOFING AND CRACK ISOLATION MEMBRANE SYSTEM

D. SETTING MORTAR

E. GROUT AND ACCESSORIES

1.3 TILE PRODUCTS

A. TILE TYPE : GLAZED PORCELAIN TILE

1. BASIS-OF-DESIGN PRODUCT: AS INDICATED ON DRAWINGS
2. SIZE: AS INDICATED ON DRAWINGS

1.4 ACCESSORY MATERIALS

A. CRACK ISOLATION MEMBRANE: URETHANE CRACK ISOLATION MEMBRANE AND TILE-SETTING ADHESIVE.

B. SEALANTS: USE SEALANT COMPLYING WITH ASTM C920 ACCORDING TO TYPE, GRADE, CLASS AND USES REQUIRED. COLOR TO MATCH GROUT

1.5 INTERIOR TILE INSTALLATION SCHEDULE

A. INTERIOR FLOORS ON CONCRETE:

1. INSTALL FLOOR TILE PER TCNA F-125-FULL-12: THIN-SET MORTAR ON CRACK ISOLATION MEMBRANE.

B. TILE TYPE: AS INDICATED ON DRAWINGS.

C. LATEX-MODIFIED CEMENT MORTAR: ONE PART, FLEXIBLE LATEX THIN SET MORTAR CONFORMING TO ANSI A118.4 & A118.11 (OR LOCAL CODE).

D. GROUT: STAIN RESISTANT, CRACK RESISTANT, CEMENTITIOUS GROUT. PROVIDE GROUT WITH 4% MAXIMUM WATER ABSORPTION CONFORMING TO ANSI A118.7 (OR LOCAL CODE).

1.6 WARRANTY

A. THE MANUFACTURER OF THE INSTALLATION MATERIALS SHALL WARRANT FOR 15 YEARS UPON COMPLETION OF THE INSTALLATION, WHEN INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ARCHITECTURAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A0.6

BUILDING SHELL CONSTRUCTION SET

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SECTION 095113 - ACOUSTICAL PANEL CEILINGS

1.1 - SUMMARY

A. ACOUSTICAL PANELS AND EXPOSED SUSPENSION SYSTEMS.

1.2 - QUALITY ASSURANCE

A. ACOUSTICAL PANEL QUALITY STANDARD: ASTM E 1264.

B. METAL SUSPENSION SYSTEM QUALITY STANDARD: ASTM C 635.

C. MOCKUPS FOR EACH FORM OF CONSTRUCTION.

1.3 - MATERIALS

A. ACOUSTICAL CEILING PANELS:

1. TYPE AND FORM: REFER TO ARCH. DRAWINGS FOR PRODUCT INFORMATION.
2. LR: NOT LESS THAN: 0.85.
3. NRC: NOT LESS THAN: 0.55.
4. CAC: NOT LESS THAN: 35.
5. THICKNESS: 5/8" INCH (15MM)
6. MODULAR SIZE: 24 BY 48 INCHES (610 BY 1220 MM).

B. METAL SUSPENSION SYSTEMS:

1. WIRE HANGERS, BRACES, AND TIES.
2. HANGER RODS OR FLAT HANGERS
3. ANGLE HANGERS.
4. SEISMIC PERIMETER STABILIZER BARS, STRUTS, AND CLIPS.
5. HOLD-DOWN CLIPS.
6. IMPACT CLIPS.
7. WIDE-FACE, CAPPED, DOUBLE-WEB STEEL: INTERMEDIATE DUTY. REFER TO ARCH. DRAWINGS FOR OTHER PRODUCT INFORMATION.

C. METAL EDGE MOLDINGS AND TRIM: EXTRUDED

D. ACOUSTICAL SEALANTS.

1.4 - INSTALLATION

A. INSTALLATION: ASTM C 636

1.5 - FIELD QUALITY CONTROL

A. TESTING: BY CONTRACTOR/ CONSTRUCTION MANAGER -ENGAGED AGENCY TO TEST ACOUSTICAL PANEL CEILING HANGER FASTENERS.

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

1.1 - PRODUCTS

A. RESILIENT BASE:

1. MATERIAL REQUIREMENT: ROPPE.
2. STYLE/COLOR: AS INDICATED ON DRAWINGS.
3. MINIMUM THICKNESS: 0.125 INCH (3.2 MM).
4. HEIGHT: AS INDICATED ON DRAWINGS.
5. OUTSIDE CORNERS: PREFORMED.
6. INSIDE CORNERS: PREFORMED.
7. USE COIL PRODUCT ONLY, NO FOUR FOOT SECTIONS PERMITTED.

B. INSTALLATION MATERIALS:

1. TROWELABLE LEVELING AND PATCHING COMPOUNDS.
2. ADHESIVES.

SECTION 096519 - RESILIENT TILE FLOORING

1.1 - PRODUCTS

A. SOLID VINYL FLOOR TILE:

1. CLASS: PRINTED FILM.
2. THICKNESS: 0.125 INCH (3.2 MM) MIN.
3. SIZE: AS INDICATED ON DRAWINGS.
4. WEAR LAYER THICKNESS: 20mil FOR PLANK / 0.020" FOR TILE PRODUCT
5. FINISH: UV CURED FACTORY ENHANCED URETHANE
6. SLIP RESISTANCE / ASTM D 2047: COMPLIANT / MINIMUM
7. LOAD FACTOR: 1500psi MINIMUM
8. WARRANTY: 10 YEAR COMMERCIAL MINIMUM

B. INSTALLATION MATERIALS:

1. TROWELABLE LEVELING AND PATCHING COMPOUNDS.
2. ADHESIVES.
3. SEAMLESS-INSTALLATION ACCESSORIES.

1.2 - FLOOR TILE INSTALLATION

A. LAY TILES IN PATTERN INDICATED ON DRAWINGS.

SECTION 096813 - TILE CARPETING

1.1 - WARRANTY

A. CARPET TILE FAILURE: LIFETIME LIMITED COMMERCIAL.

1.2 - PRODUCTS

A. CARPET TILE:

1. FIBER: NYLON 6.
2. PILE CHARACTERISTIC: MULTI-LEVEL LOOP PILE.
3. DENSITY: 4500 OZ./CU. YD. (8.38 KILOTEX).
4. PILE THICKNESS: .120 (3.05 MM).
5. TOTAL WEIGHT: 15.00 OZ./SQ. YD (508.59 G/SQ. M).
6. SIZE: 24 BY 24 INCHES (610 BY 610 MM).

B. INSTALLATION ADHESIVE: VOC CONTENT 50 G/L OR LESS.

SECTION 096816 - SHEET CARPETING

1.1 - WARRANTY

A. CARPET: LIFETIME LIMITED COMMERCIAL.

B. CARPET CUSHION: LIFETIME LIMITED COMMERCIAL.

1.2 - PRODUCTS

A. TUFTED CARPET: AS INDICATED ON DRAWINGS
1. FIBER CONTENT: SOLUTION Q NYLON.
2. PILE CHARACTERISTIC: TEXTURED LOOP PILE.
3. TUFTED WEIGHT: 24.0 (813.74 G/ SQ. M)
4. GAUGE: 1/10 (39.37 / 10cm)
5. STITCHES PER INCH: 9.0 (35.43 / 10cm)
6. PILE THICKNESS: 0.099 (2.51mm)
7. TOTAL THICKNESS: 0.256 (6.50mm)
8. DENSITY: 8727 (16.25 KILOTEX)
9. PRIMARY BACKING: SYNTHETIC
10. DYE METHOD: 100% SOLUTION DYED.

B. INSTALLATION ADHESIVE: VOC CONTENT 50 G/L OR LESS.

C. CARPET CUSHION:

1. PRODUCT: ULTRALOC PATTERN BACKING.
2. MATERIAL: SBR LATEX PRE-COAT WITH A HIGH PERFORMANCE SBR SECONDARY COAT LAMINATED TO A WOVEN SECONDARY BACKING.

SECTION 099113 - EXTERIOR PAINTING

1.1 - SUMMARY

A. SURFACE PREPARATION AND THE APPLICATION OF PAINT SYSTEMS ON EXTERIOR SUBSTRATES.

1.2 - QUALITY ASSURANCE

A. QUALITY STANDARDS: "MPI APPROVED PRODUCTS LIST" AND "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL."

B. MOCKUPS FOR EACH COLOR AND FINISH.

1.3 - FIELD QUALITY CONTROL

A. TESTING: BY CONTRACTOR/ CONSTRUCTION MANAGER - ENGAGED INDEPENDENT TESTING AGENCY.

1.4 - EXTERIOR PAINTING SCHEDULE

A. STEEL SUBSTRATES:

1. ALKYD SYSTEM: MPI EXT 5.1D.
2. ALUMINUM PAINT SYSTEM: MPI EXT 5.1K.

B. GALVANIZED-METAL SUBSTRATES:

1. ALKYD SYSTEM: MPI EXT 5.3B.

C. ALUMINUM SUBSTRATES:

1. ALKYD SYSTEM: MPI EXT 5.4F.

D. STUCCO SUBSTRATES:

1. DRYVIT "DEMANDIT" PAINT PREPARED AND APPLIED PER MANUFACTURER'S INSTRUCTIONS.

SECTION 099123 - INTERIOR PAINTING

1.1 - SUMMARY

A. SURFACE PREPARATION AND THE APPLICATION OF PAINT SYSTEMS ON INTERIOR SUBSTRATES.

1.2 - QUALITY ASSURANCE

A. QUALITY STANDARDS: "MPI APPROVED PRODUCTS LIST" AND "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL."

1.3 - PRODUCTS

A. ALL PAINT USED SHOULD BE NON-VOC: RECOMMEND BENJAMIN MOORE ECO-SPEC LINE, SHERWIN WILLIAMS DURATION OR EQUIVALENT.

1.4 - INTERIOR PAINTING SCHEDULE

A. CONCRETE SUBSTRATES, NON-TRAFFIC SURFACES:

1. LATEX SYSTEM: MPI INT 3.1E.
2. LATEX OVER SEALER SYSTEM: MPI INT 3.1A.
3. LATEX OVER LATEX AGGREGATE SYSTEM: MPI INT 3.1B.
4. ALKYD SYSTEM: MPI INT 3.1D.

B. CONCRETE SUBSTRATES, TRAFFIC SURFACES:

1. CLEAR SEALER SYSTEM: MPI INT 3.2F.
2. WATER-BASED CLEAR SEALER SYSTEM: MPI INT 3.2G.

C. STEEL SUBSTRATES:

1. QUICK-DRYING ENAMEL SYSTEM: MPI INT 5.1A.
2. ALKYD DRY-FALL SYSTEM: MPI INT 5.1D.
3. ALKYD SYSTEM: MPI INT 5.1E.
4. ALUMINUM PAINT SYSTEM: MPI INT 5.1M.

D. GALVANIZED-METAL SUBSTRATES:

1. ALKYD DRY-FALL SYSTEM: MPI INT 5.3F.
2. ALKYD SYSTEM: MPI INT 5.3C.
3. HIGH-PERFORMANCE ARCHITECTURAL LATEX SYSTEM: MPI INT 5.3M.

E. ALUMINUM (NOT ANODIZED OR OTHERWISE COATED) SUBSTRATES:

1. ALKYD OVER VINYL WASH PRIMER SYSTEM: MPI INT 5.4A.
2. ALKYD OVER QUICK-DRYING PRIMER SYSTEM: MPI INT 5.4J.
3. ALUMINUM PAINT SYSTEM: MPI INT 5.4D.
4. HIGH-PERFORMANCE ARCHITECTURAL LATEX SYSTEM: MPI INT 5.4F.

F. GYPSUM BOARD SUBSTRATES:

1. LATEX SYSTEM: MPI INT 9.2A.
2. ALKYD OVER LATEX PRIMER SYSTEM: MPI INT 9.2C.
3. HIGH-PERFORMANCE ARCHITECTURAL LATEX SYSTEM: MPI INT 9.2B.

SECTION 101400 - SIGNAGE

1.1 - SUMMARY

A. CONTRACTOR TO FURNISH AND INSTALL SIGNAGE PER LOCAL, STATE, AND FEDERAL CODES. SEE ARCH. DRAWINGS FOR FURTHER REQUIREMENTS.

1.2 - COMPONENTS

A. MATERIALS - PLASTIC, SELF ADHESIVE

B. RAISED TEXT AND TACTILE PER A.D.A. AND ANSI

SECTION 102113-TOILET COMPARTMENTS

1.1 - SUMMARY

A. STAINLESS STEEL TOILET COMPARTMENTS CONFIGURED AS FOLLOWS:

1. URINAL-SCREEN STYLE: WALL HUNG, FLAT PANEL
2. COMPARTMENT STYLE, WHERE APPLICABLE: FLOOR-MOUNTED, OVERHEAD-BRACED

1.2 - COMPONENTS

A. MANUFACTURER: GENERAL PARTITIONS

B. URINAL-SCREEN POST: NONE

C. BRACKETS (FITTINGS):

1. FULL-HEIGHT (CONTINUOUS) TYPE: STAINLESS STEEL

D. HARDWARE AND ACCESSORIES: STAINLESS STEEL

E. STYLE: #501 HAMMERED STAINLESS

SECTION 102800-TOILET ACCESSORIES

1.1 - WARRANTY

A. SILVER SPOILAGE FOR MIRRORS: 15 YEARS MINIMUM.

B. STAINLESS STEEL TOILET ACCESSORIES: 10 YEARS MINIMUM.

1.2 - PRODUCTS

A. SEE ARCH. DRAWINGS FOR MANUFACTURER AND INFORMATION.

B. PUBLIC-USE WASHROOM ACCESSORIES:

1. TOILET TISSUE DISPENSER: COMBINATION, ROLL TOILET TISSUE.
2. ELECTRIC HAND DRYER.
3. LIQUID-SOAP DISPENSER(WALL MOUNTED TYPE).
4. GRAB BARS (STAINLESS STEEL TYPE).
5. SANITARY-NAPKIN DISPOSAL UNIT.
6. MIRROR UNIT.

C. CHILDCARE ACCESSORIES:

1. DIAPER-CHANGING STATION.

SECTION 104413 - FIRE EXTINGUISHER CABINETS

1.1 - PRODUCTS

A. FIRE PROTECTION CABINET:

1. TYPE: FOR FIRE EXTINGUISHER.
2. CONSTRUCTION: NON-RATED.
3. MOUNTING: SEMI-RECESSED (3 1/2" PROJECTION).
4. DOOR STYLE: FULLY GLAZED PANEL WITH FRAME.
5. DOOR GLAZING: TEMPERED BREAK GLASS.
6. ACCESSORIES: DOOR LOCKS.
7. FINISH: STEEL, BAKED ENAMEL OR POWDER COATED.
8. DESIGN PRODUCT: LARSON 2409-R4 - FULL GLAZING WITH ROLLED EDGE.

SECTION 104416 - FIRE EXTINGUISHERS

1.1 - SUMMARY

A. FURNISHED MATERIAL: HAND-CARRIED FIRE EXTINGUISHERS.

1.2 - QUALITY ASSURANCE

A. FIRE EXTINGUISHERS: NFPA 10 AND FMG LISTED OR PER LOCAL JURISDICTION.

1.3 - WARRANTY

A. MATERIALS AND WORKMANSHIP: SIX YEARS.

1.4 - PRODUCTS

A. PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS:

1. MULTIPURPOSE DRY-CHEMICAL TYPE, RECHARGABLE, 10 LBS, UL RATING 4A:60B:C OR PER LOCAL CODE.

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ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ARCHITECTURAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A0.7

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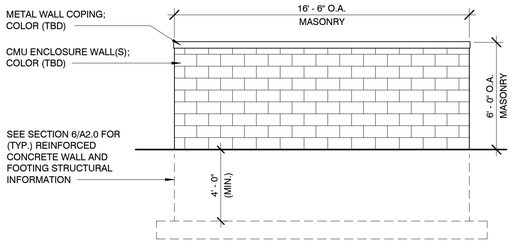
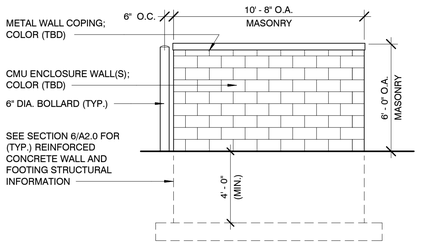


5 TRASH ENCL. - BACK

A2.0 | A2.0

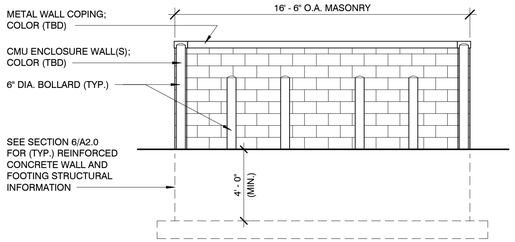
1/4" = 1'-0"



4 TRASH ENCL. - SIDE

A2.0 | A2.0

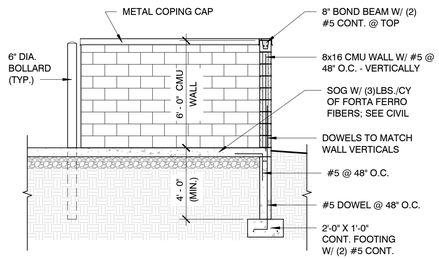
1/4" = 1'-0"



3 TRASH ENCL. - FRONT

A2.0 | A2.0

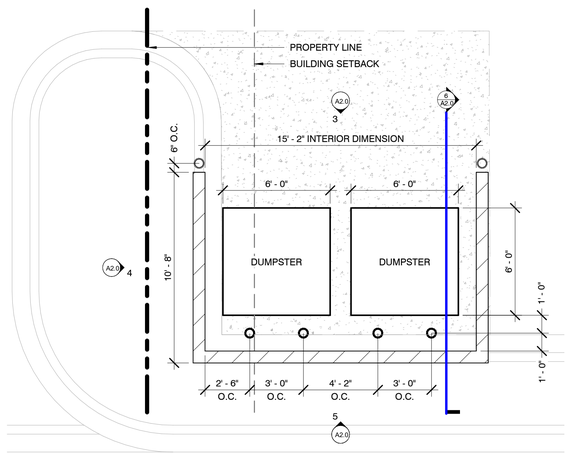
1/4" = 1'-0"



6 TRASH ENCL. - SECTION

A2.0 | A2.0

1/4" = 1'-0"

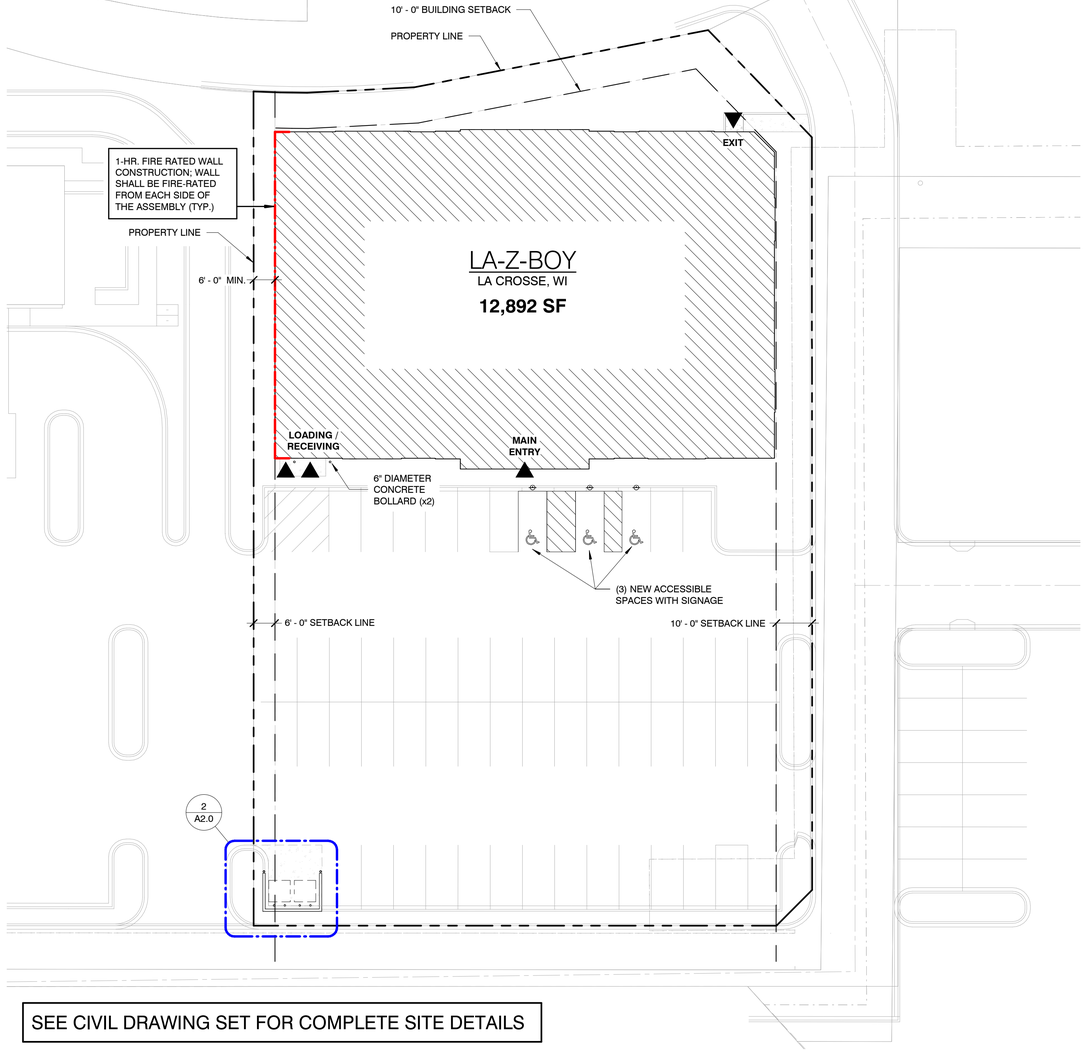


2 TRASH ENCL. PLAN

A2.0 | A2.0

1/4" = 1'-0"

NORTH



SEE CIVIL DRAWING SET FOR COMPLETE SITE DETAILS

1 ARCHITECTURAL SITE PLAN

A5.1 | A2.0

1" = 20'-0"

NORTH

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SHEET TITLE:
ARCHITECTURAL SITE PLANS & DETAILS

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A2.0

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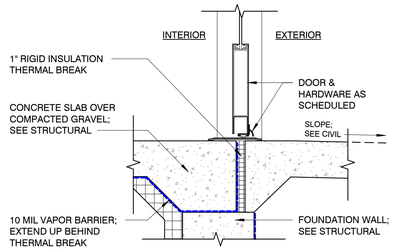
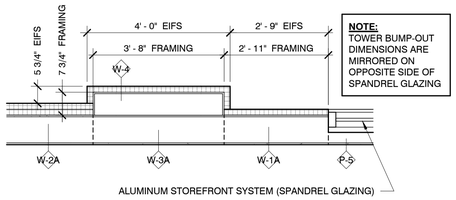


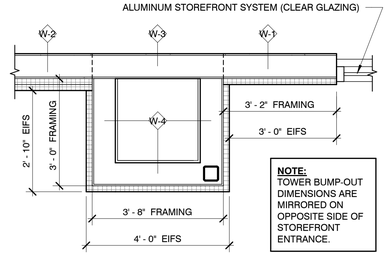
4 A6.2 A3.1 **ENTRY DOOR THRESHOLD**

1 1/2" = 1'-0"



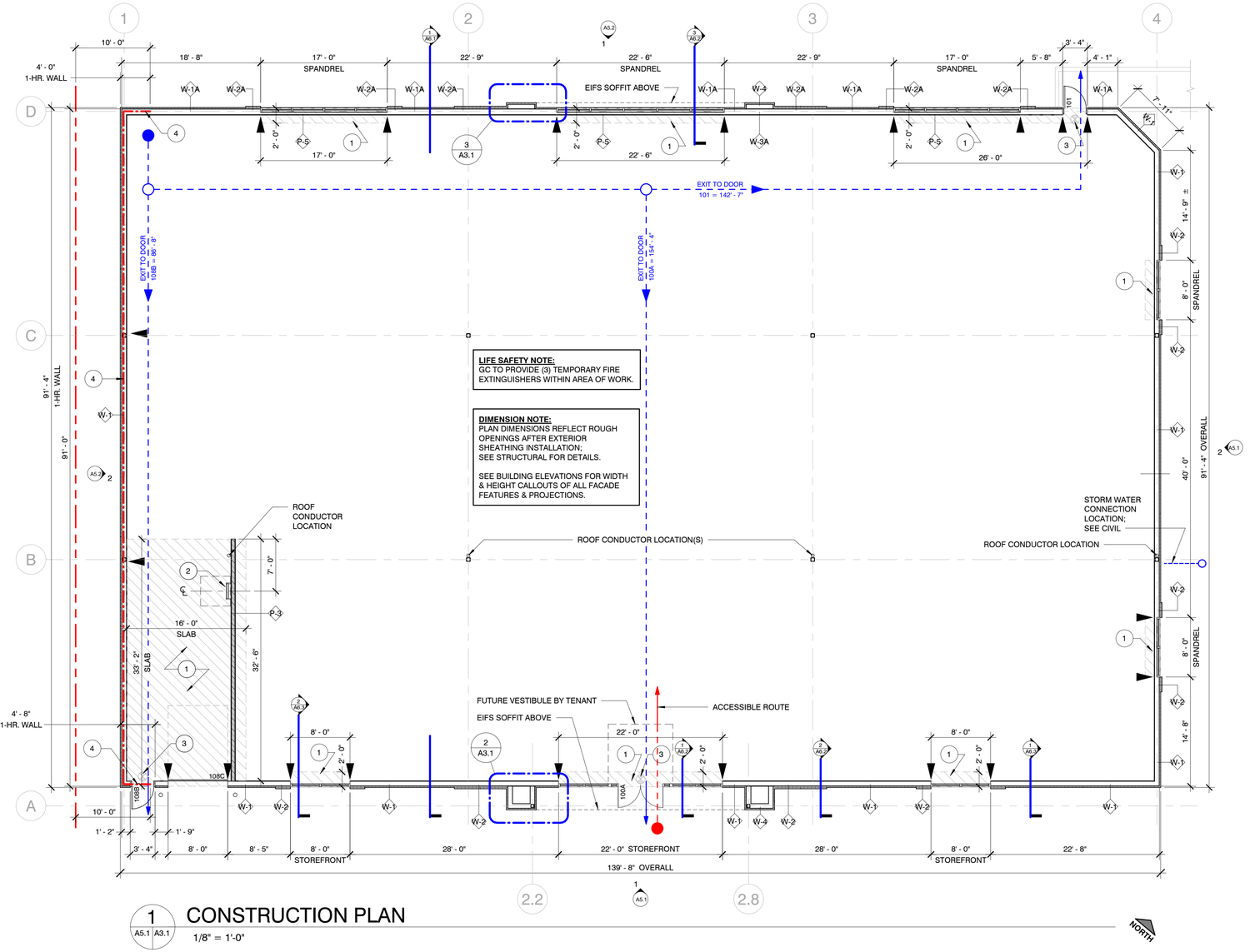
3 A3.1 A3.1 **PLAN DETAIL B**

1/2" = 1'-0"



2 A3.1 A3.1 **PLAN DETAIL A**

1/2" = 1'-0"



1 A5.1 A3.1 **CONSTRUCTION PLAN**

1/8" = 1'-0"

CONSTRUCTION PLAN GENERAL NOTES:

A. X INDICATES WALL TYPE; SEE WALL SCHEDULE FOR WALL ASSEMBLY INFORMATION. NOTE - SEE SECTIONS AND ELEVATIONS FOR CHANGES IN MATERIALS, WALL TYPES, AND ACCENT-ELEMENTS THAT MAY NOT BE INDICATED @ PLAN CUT.

B. FE INDICATES FIRE EXTINGUISHER LOCATION, SEE SPEC FOR DIFFERENT TYPES. PROVIDE ROOF PATCHING AT ALL REQUIRED MECHANICAL PENETRATIONS PER ROOF MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN WARRANTY.

C. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL LOCAL CODES, ORDINANCES AND REGULATIONS OF THE GOVERNMENT AUTHORITIES HAVING JURISDICTION.

D. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED TO PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS AND PROCEDURES OF ANY AND ALL AUTHORITIES HAVING JURISDICTION.

E. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND COORDINATES. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS.

F. CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND NOTIFY THE ARCHITECT OF ANY CONCERNS PRIOR TO STARTING WORK.

G. DO NOT SCALE THE DRAWINGS. IF A CONTRADICTION OCCURS WITHIN THE CONTRACT DOCUMENTS OR INFORMATION IS UNCLEAR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION.

H. CONTRACTOR SHALL COORDINATE WITH THE WORK OF OTHERS NOT INCLUDED IN THE CONTRACT AS DIRECTED BY THE OWNER.

I. ALL INTERIOR PLAN DIMENSIONS ARE TO FACE OF INTERIOR FINISH, U.N.O.

J. ALL EXTERIOR DIMENSIONS ARE FROM EXTERIOR FINISH FACE TO EXTERIOR FINISH FACE, U.N.O.

K. ALL VERTICAL DIMENSIONS TO BE ABOVE FINISH FLOOR (A.F.F.) U.N.O.

L. THE WORD ALIGN AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.

M. ALL DOORS USED IN CONJUNCTION WITH EXITS SHALL BE ARRANGED TO READILY OPEN WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE FROM THE SIDE OF EGRESS.

N. "TYPICAL" (OR TYP.) AS USED IN THESE DOCS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS, U.N.O.

CONSTRUCTION PLAN LEGEND:

► GYP. BD. CONTROL JOINT LOCATION. PROVIDE AT CORNERS OF DOORS & WINDOWS. SPACE ADDITIONAL CONTROL JOINTS AT MAX 50' O.C. DO NOT LOCATE CONTROL JOINTS IN AREAS SCHEDULE TO RECEIVE VINYL WALL GRAPHICS.

KEYED FLOOR PLAN NOTES

TAG #	DESCRIPTION
1	HATCHED AREAS DENOTE REINFORCED CONCRETE SLAB FLOORS; SEE STRUCTURAL FOR ADDITIONAL DETAILS.
2	ROOF ACCESS LADDER W/ HATCH ABOVE; SEE A7.1 FOR ADDITIONAL DETAILS
3	SEE REFLECTED CEILING PLAN FOR ADDITIONAL DETAILS REGARDING EXIT AND/OR EMERGENCY LIGHTING AND SIGNAGE. GC TO VERIFY TEMPORARY REQUIREMENTS WITH LOCAL JURISDICTION
4	FIRE RATED WALL CONSTRUCTION; REFER TO FIRE RATED WALL NOTE ON A6.4.

RATED WALL LEGEND

1 - HOUR FIRE RATED WALL

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ISSUED FOR:
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SHEET TITLE:
CONSTRUCTION PLAN

STORE NAME:
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SHEET NO.
A3.1

BUILDING SHELL CONSTRUCTION SET

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REFLECTED CEILING PLAN GENERAL NOTES:

A. THIS DRAWING INDICATES THE GENERAL LOCATION OF FIXTURES, ARCHITECTURAL DETAILS AND FINISHES. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION AND SPECIFICATIONS.

B. SEE FINISH SCHEDULE, FINISH PLANS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C. ALL CEILING TILE TO BE CENTERED IN BOTH DIRECTIONS IN EACH ROOM OR SPACE U.N.O.

D. SEE ELECTRICAL DRAWINGS FOR FIXTURE LOCATIONS. VERIFY MOUNTING HEIGHTS OF DECORATIVE FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

E. ALL DOWN LIGHTS AND WALL WASHERS TO BE CENTERED IN CEILING TILE OR SOFFIT, U.N.O.

F. SEE MECHANICAL DRAWINGS FOR DUCT AND EQUIPMENT LAYOUT.

G. COORDINATE LOCATION OF ELECTRICAL FIXTURES, MECHANICAL GRILLES AND DIFFUSERS, SPRINKLER HEADS, AND OTHER CEILING MOUNTED ITEMS WITH ARCHITECT. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO FINAL INSTALLATION.

H. EXIT AND EXIT ACCESS DOORS SHALL BE MARKED BY EXIT SIGNS. EXIT SIGNS SHALL COMPLY WITH IBC 1013.1. PROVIDE ABILITY TO PROVIDE 90 MINUTES OF CONTINUOUS ILLUMINATION IN CASE OF POWER LOSS.

CEILING SYMBOL KEY:

9' - 0" — DESIGNATES CEILING HEIGHT ABOVE FINISHED FLOOR

ACT-1 — 2' x 4' LAY-IN ACOUSTICAL CEILING TILE TREATMENT
MANUFACTURED BY ARMSTRONG: FINE FISSURED
ITEM NO.: 1729 A / HUMIGARD PLUS
COLOR: WHITE, MEDIUM TEXTURE
SIZE: 2' x 4' x 5/8" THICKNESS
WARRANTY: 10 YRS. W/O GRID, 15 YRS. WITH GRID
CLASS A: TYPE III, FORM 2, PATTERN CE
SUSPENSION SYSTEM: ARMSTRONG PRELUDE
COLOR: WHITE
SPECIFICATIONS: 15/16" HOT DIPPED GALVANIZED, ROTARY STITCHED, INTERMEDIATE DUTY EXPOSED TEE GRID.
WARRANTY: 10 YRS.
NOTE: CALL SHERRY BRUNT (1-800-442-4212) AT ARMSTRONG WORLD INDUSTRIES, INC. TO ORDER ABOVE ITEMS AT LA-Z-BOY NATIONAL PRICING.

2' x 4' LAY-IN LIGHT FIXTURE; SEE ELECTRICAL

EXPSD. — DESIGNATES EXPOSED STRUCTURE CEILING THAT WILL BE PAINTED PER LA-Z-BOY'S I-SERIES DRAWING SET. ELEMENTS TO BE PAINTED INCLUDE, BUT ARE NOT LIMITED TO: DECKING, JOISTS, BEAMS, CONDUITS, AND DUCTWORK.

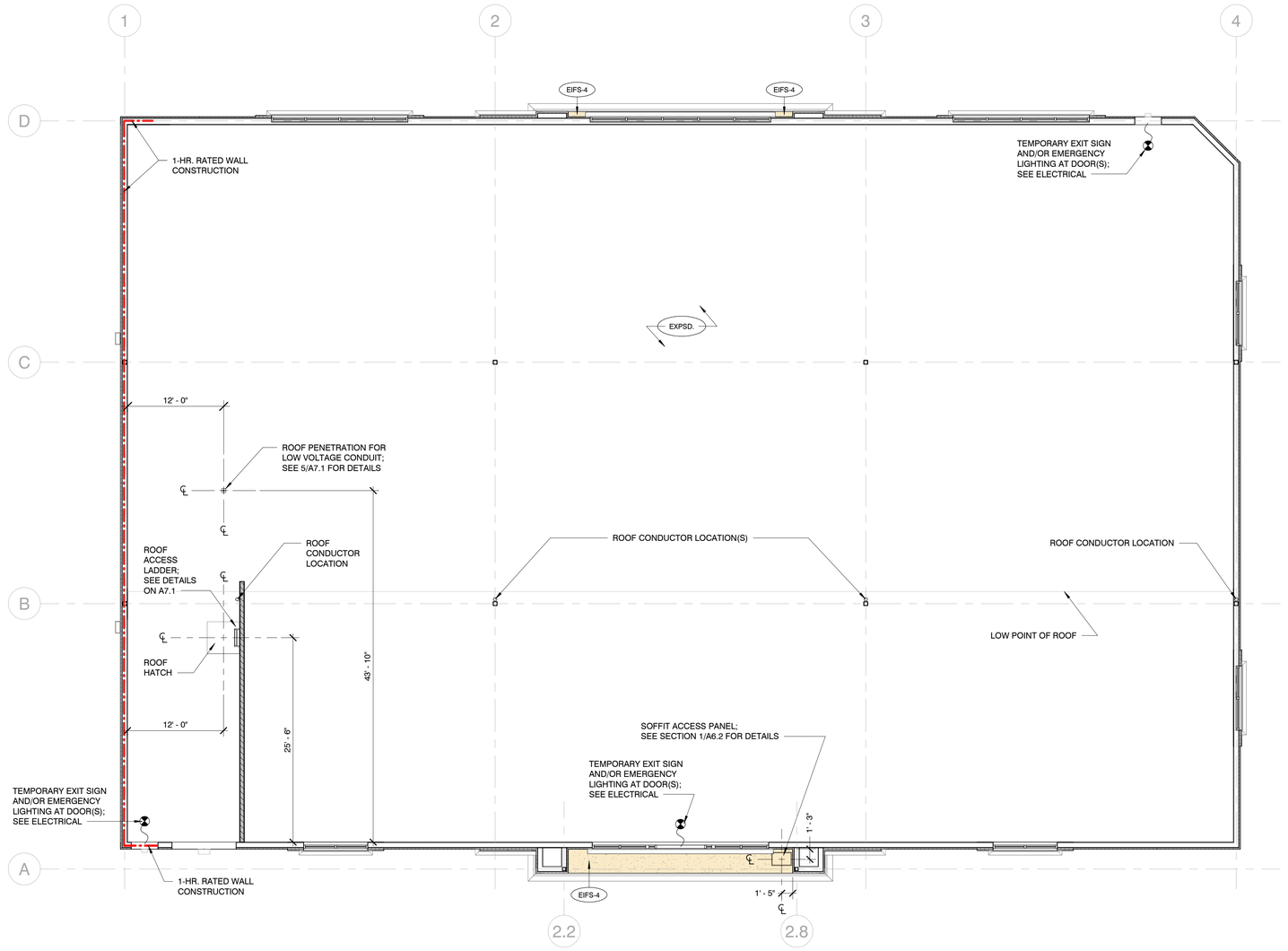
EIFS-X — EIFS CEILING; REFER TO ELEVATION FINISH KEY FOR COLOR DETAILS

TEMPORARY EMERGENCY SIGNAGE / LIGHTING FIXTURE; SEE ELECTRICAL

* INFORMATION BASED ON FUTURE TENANT BUILD-OUT *

RATED WALL LEGEND

1 - HOUR FIRE RATED WALL



1 / A5.1 A3.2 — REFLECTED CEILING PLAN
1/8" = 1'-0"

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SHEET TITLE:
REFLECTED CEILING PLAN

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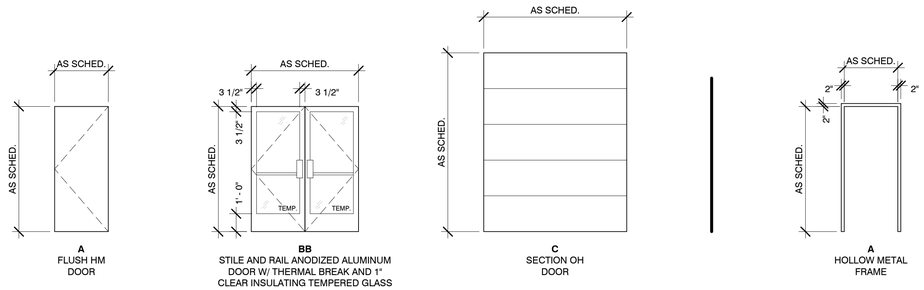
DOOR AND FRAME SCHEDULE

	Door						Frame						
										Detail			
Door #	Width	Height	Thickness	Material	Type	Finish	Material	Type	Finish	Head	Jamb	Hardware	Comments
100A	6' - 0"	7' - 0"	1 3/4"	ALUM.	BB	ANOD.	ALUM.	PER MFG.	ANOD.	PER MFG.	PER MFG.	1	INSULATED W/ THERMAL BREAK
101	3' - 0"	7' - 0"	1 3/4"	HM	A	PAINT	HM	A	PAINT	H3	J3	2	FULLY INSULATED ASSEMBLY
108B	3' - 0"	7' - 0"	1 3/4"	HM	A	PAINT	HM	A	PAINT	H3	J3	2-A	FULLY INSULATED ASSEMBLY
108C	8' - 0"	10' - 0"	1 3/4"	STEEL	C	PREFIN.	STEEL	PER MFG.	PREFIN.	H4	J4	8	FULLY INSULATED ASSEMBLY

* PRE-FINISHED (PREFIN.) COLOR TO MATCH SW7508 "TAVERN TAUPE"; SUBMIT FOR FINAL APPROVAL OF COLOR BY LA-Z-BOY.



DOOR & FRAME TYPES

1/4" = 1'-0"

GENERAL DOOR AND HARDWARE NOTES:

A. VERIFY LEVER STYLE WITH OWNER PRIOR TO APPROVAL.

B. CONFIRM ALL KEYING WITH OWNER PRIOR TO ORDERING CYLINDERS.

C. ITEMS OF HARDWARE NOT DEFINITELY SPECIFIED HEREIN, BUT NECESSARY FOR COMPLETION OF THE WORK SHALL BE PROVIDED.

D. ALL HARDWARE TO MEETING CURRENT ICC A117.1-2009 REQUIREMENTS.

E. ALL DOORS SHALL BE LEVER TYPE. CONTROLS AND OPERATION MECHANISMS SHALL BE OPERABLE WITH ONE AND AND HSALL NOT REQUIRE THIGHT GRASPING, PINCHIGN OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NOT GREATHER THAN 5LBF FOR INTERIOR DOORS AND 8.5 LBF FOR EXTERIOR DOORS.

F. OPERABLE PARTS SUCH AS HARDWARE SHALL BE 34" MIN AND 48" MAX ABOVE FINSIHED FLOOR WITH EXCEPTIONS TO LOCKS USED ONLY FOR SECURITY PRUPOSES AND NOT USED FOR NORMAL OPERATION.

G. ALL HARDWARE FOR NON-ALUMINUM DOORS TO BE BRUSHED NICKEL CHROME FINISH (US32D), COMMERCIAL GRADE TYPE 2.

HARDWARE KEY

HARDWARE SET 1

2 EA	CONTINUOUS HINGE	CFM-SLF-HD1	PE
2 EA	CONCEALED VERT. ROD EXIT DEVICE	8600 W/ MATCHING END CAPS, US32D	AD
1 EA	RIM CYLINDER	1193 KA	YA
2 EA	PULL	RM201 MTG-TYPE 12xHD	RO
2 EA	CONCEALED OH STOP	6-X36	RF
2 EA	SURFACE CLOSER	J8501	NO
2 EA	DROP PLATE	8148	NO
1 EA	THRESHOLD	1715AK	PE
2 EA	SWEEP	29326CNB TKSP8	PE
1 SET	WEATHERSTRIP	INTEGRAL W/ ALUM. FRAME / DOOR	

HARDWARE SET 1-A

NOT USED

HARDWARE SET 2

3 EA	HINGES (NRP)	TA2314, 4-1/2" x 4-1/2"	MK
1 EA	EXIT DEVICE W/ DECAL "ALARM WILL SOUND"	7150 A-36 121NL	YA
1 EA	MORTISE CYLINDER	2196 KA	YA
1 EA	RIM CYLINDER	1193 KA	YA
1 EA	VANDAL RESIST. TRIM	VRT22 C	RO
1 EA	CLOSER	CLP8501	NO
1 EA	RAIN GUARD	346C TKSP8	PE
1 EA	WEATHERSTRIP	2891APK TKSP8	PE
1 EA	DOOR BOTTOM	216BDCFG TKSP8	PE

HARDWARE SET 2-A

SAME AS HARDWARE SET 2 WITH THE FOLLOWING UPDATES:

1 EA	EXIT DEVICE	7150-36 121NL	YA
1 EA	WIRELESS PLUG-IN CHIME COMMERCIAL ENTRANCE ALERT; (MODEL CE-6880 BY IQ AMERICA.)		

HARDWARE SET 3

NOT USED

HARDWARE SET 4

NOT USED

HARDWARE SET 5

NOT USED

HARDWARE SET 6

NOT USED

HARDWARE SET 7 (STOCKROOM DOOR)

NOT USED

HARDWARE SET 8 (OH SECTIONAL DOOR)

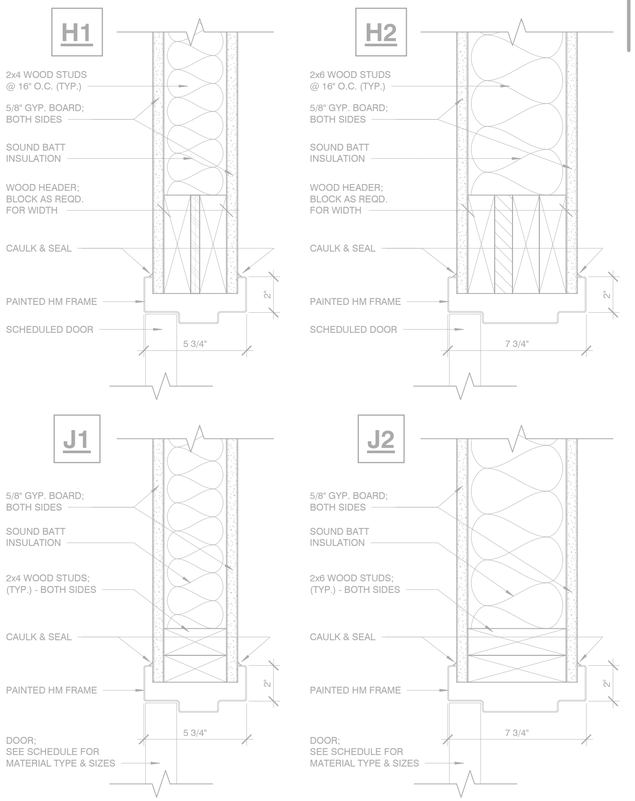
FACTORY SLIDE BOLT W/ INTERLOCK TO AUTOMATIC OPENER; 3-BUTTON OPERATOR - INTERIOR MOUNT BESIDE DOOR

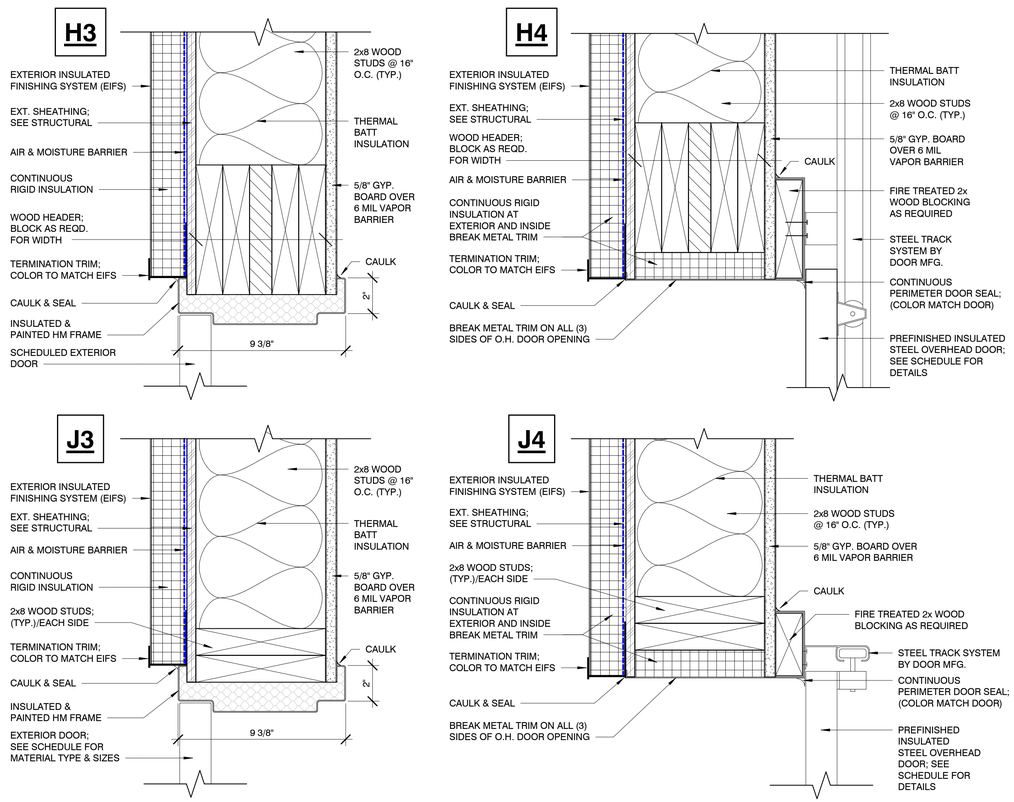
MANUFACTURER LEGEND:

ALL PRODUCTS LISTED ARE TO ESTABLISH QUALITY, OTHER MANUFACTUERS ARE SUBJECT TO APPROVAL BY ARCHITECT.

MK - McKINNEY	PE - PEMKO
RO - ROCKWOOD	YA - YALE
AD - ADAMS RITE	RF - RIXSON
NO - NORTON	

** INFORMATION BASED ON FUTURE TENANT BUILD-OUT **





1 A4.1 HEAD AND JAMB DETAILS

3" = 1'-0"

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy

3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
DOOR SCHEDULE, TYPES AND DETAILS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A4.1

BUILDING SHELL CONSTRUCTION SET

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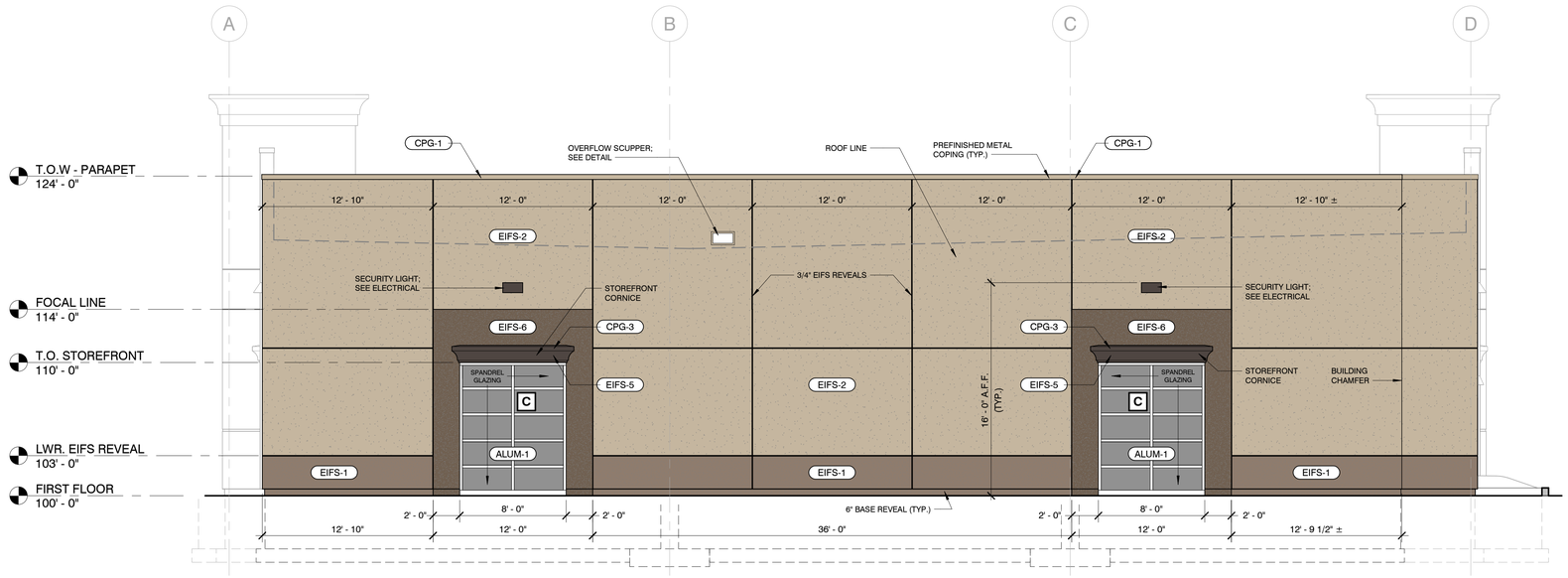
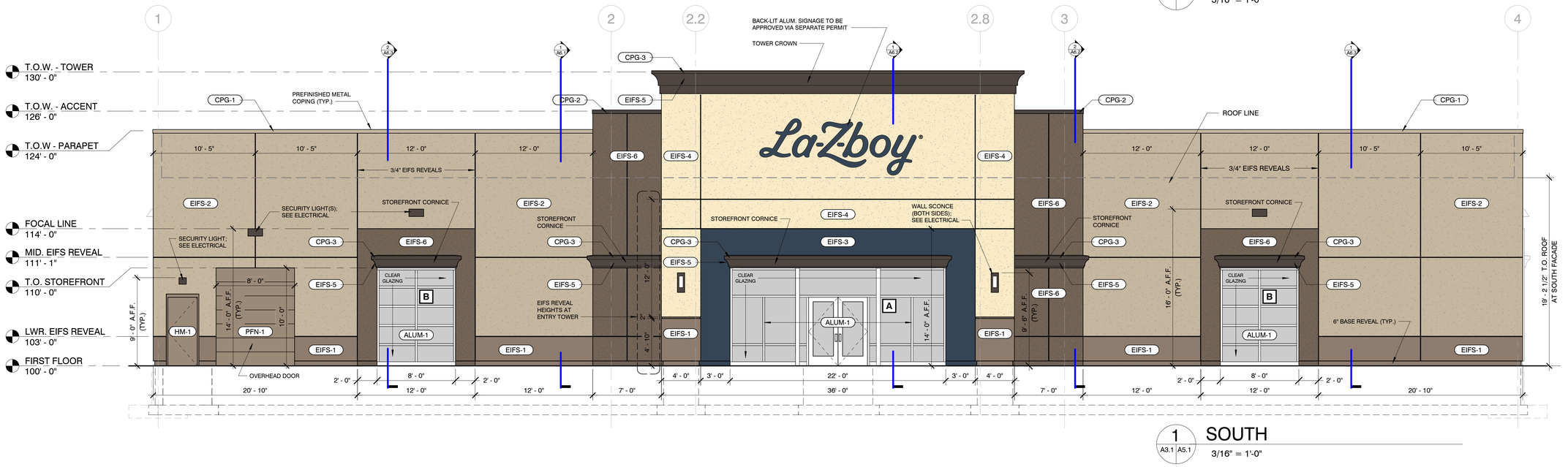
EXTERIOR FINISH KEY			
CODE	**MATERIAL TYPE**	**LOCATION**	**COLOR**
ALUM-1	ALUMINUM STOREFRONT	AT ALL STOREFRONT & SPANDREL GLAZING AREAS	CLEAR ANODIZED ALUMINUM
CPG-1	METAL COPING	AT PARAPET WALLS	PRE-FINISHED TO MATCH EIFS-2 (MEDIUM CREAM)
CPG-2	METAL COPING	AT ACCENT WALLS	PRE-FINISHED TO MATCH EIFS-6 (MEDIUM BROWN)
CPG-3	METAL COPING	AT TOWER CROWNS & STOREFRONT CORNICES	PRE-FINISHED TO MATCH EIFS-5 (DARK BROWN)
EIFS-1	EXTERIOR INSULATED FINISHING SYSTEM	AT BASE OF GENERAL BUILDING FACADE	"LIGHT BROWN" (LAZB-20S) - DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-2	EXTERIOR INSULATED FINISHING SYSTEM	AT GENERAL BUILDING FACADE	"MEDIUM CREAM" (LAZB-19S) - DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-3	EXTERIOR INSULATED FINISHING SYSTEM	AT MAIN ENTRANCE	"NAVY BLUE" (LAZB-25-1022S NAVY BLUE) DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-4	EXTERIOR INSULATED FINISHING SYSTEM	AT MAIN ENTRANCE TOWER WALLS	"LIGHT CREAM" (LAZB-23S) DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-5	EXTERIOR INSULATED FINISHING SYSTEM	AT TOWER CROWNS & STOREFRONT CORNICES	"DARK BROWN" (LAZB-22S) DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-6	EXTERIOR INSULATED FINISHING SYSTEM	AT ACCENT WALLS	"MEDIUM BROWN" (LAZB-24S) DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
HM-1	PAINT - HOLLOW METAL DOORS	AT EXTERIOR MAN DOORS	SHERWIN WILLIAMS "TAVERN TAUPE" (SW7508)
P-1	PAINT - NON EIFS ITEMS	AT BASE OF GENERAL BUILDING FACADE	"LIGHT BROWN" (LAZB-20S) - W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-2	PAINT - NON EIFS ITEMS	AT GENERAL BUILDING FACADE	"MEDIUM CREAM" (LAZB-19S) - W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-3	PAINT - NON EIFS ITEMS	AT MAIN ENTRANCE	"NAVY BLUE" (LAZB-25-1022S NAVY BLUE) W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-4	PAINT - NON EIFS ITEMS	AT MAIN ENTRANCE TOWER WALLS	"LIGHT CREAM" (LAZB-23S) W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-5	PAINT - NON EIFS ITEMS	AT TOWER CROWNS & STOREFRONT CORNICES	"DARK BROWN" (LAZB-22S) W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-6	PAINT - NON EIFS ITEMS	AT ACCENT WALLS	"MEDIUM BROWN" (LAZB-24S) W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
PFN-1	PRE-FINISHED METAL	AT DOWNSPOUTS, GUTTERS, & O.H. DOORS	PRE-FINISHED TO MATCH SW 7508 - TAVERN TAUPE



2 A3.1 | A5.1 **EAST**
3/16" = 1'-0"



1 A3.1 | A5.1 **SOUTH**
3/16" = 1'-0"

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
BUILDING ELEVATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A5.1

BUILDING SHELL CONSTRUCTION SET

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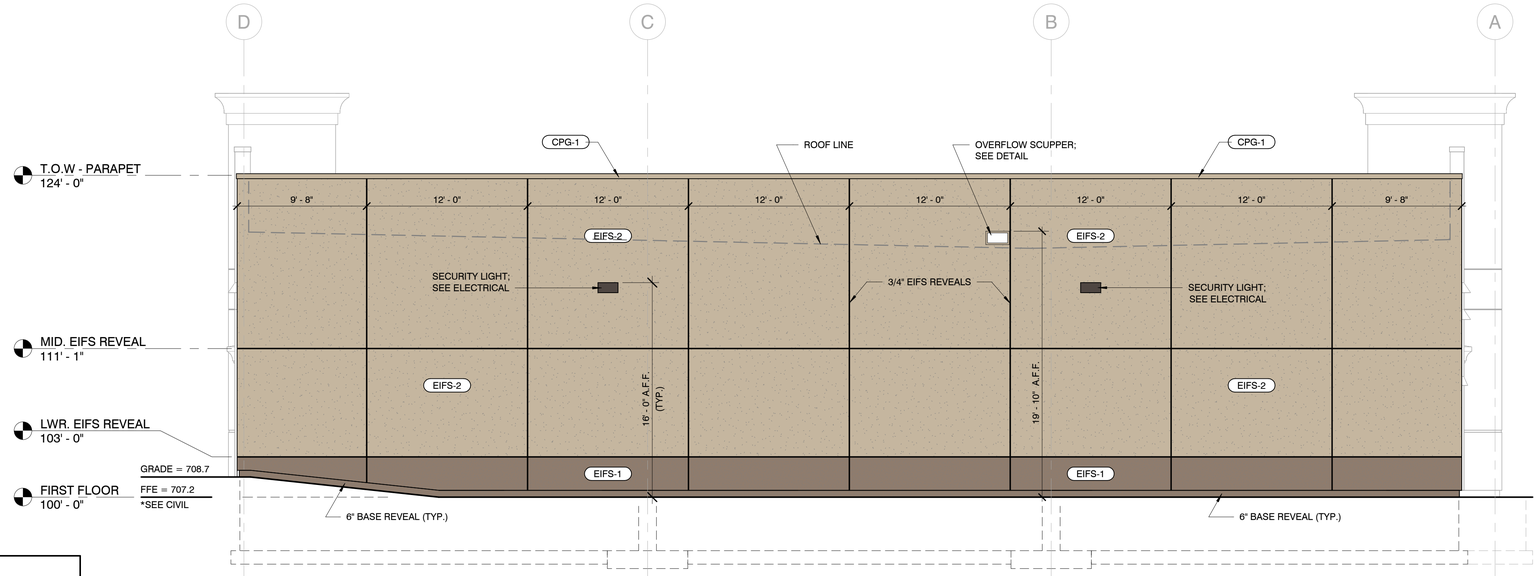
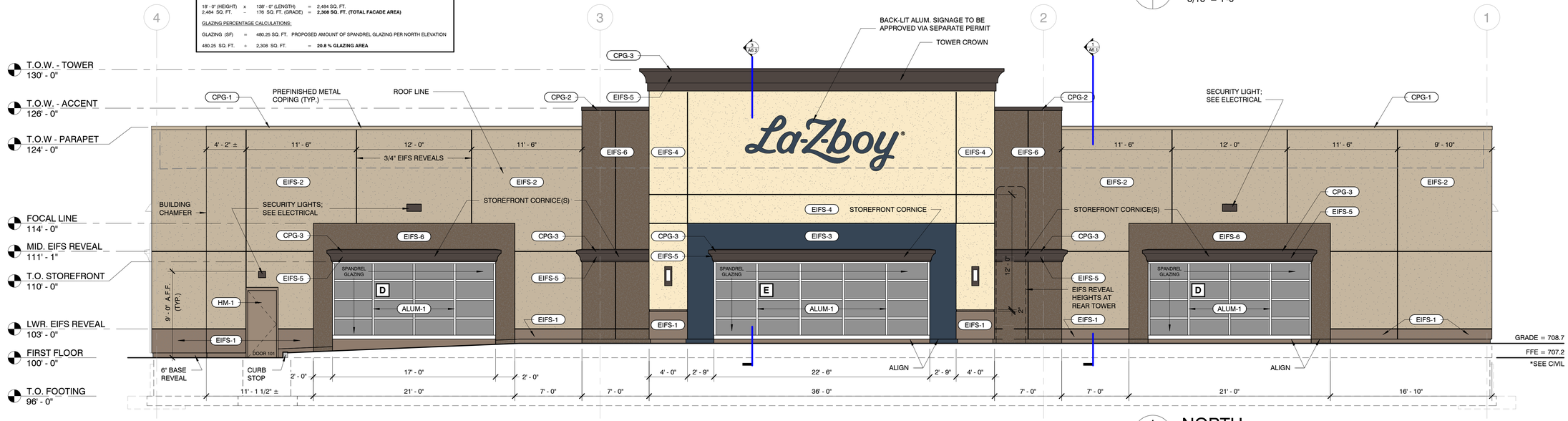
EXTERIOR FINISH KEY			
CODE	**MATERIAL TYPE**	**LOCATION**	**COLOR**
ALUM-1	ALUMINUM STOREFRONT	AT ALL STOREFRONT & SPANDREL GLAZING AREAS	CLEAR ANODIZED ALUMINUM
CPG-1	METAL COPING	AT PARAPET WALLS	PRE-FINISHED TO MATCH EIFS-2 (MEDIUM CREAM)
CPG-2	METAL COPING	AT ACCENT WALLS	PRE-FINISHED TO MATCH EIFS-6 (MEDIUM BROWN)
CPG-3	METAL COPING	AT TOWER CROWNS & STOREFRONT CORNICES	PRE-FINISHED TO MATCH EIFS-5 (DARK BROWN)
EIFS-1	EXTERIOR INSULATED FINISHING SYSTEM	AT BASE OF GENERAL BUILDING FACADE	"LIGHT BROWN" (LAZB-20S) - DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-2	EXTERIOR INSULATED FINISHING SYSTEM	AT GENERAL BUILDING FACADE	"MEDIUM CREAM" (LAZB-19S) - DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-3	EXTERIOR INSULATED FINISHING SYSTEM	AT MAIN ENTRANCE	"NAVY BLUE" (LAZB-25-1022S NAVY BLUE) DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-4	EXTERIOR INSULATED FINISHING SYSTEM	AT MAIN ENTRANCE TOWER WALLS	"LIGHT CREAM" (LAZB-23S) DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-5	EXTERIOR INSULATED FINISHING SYSTEM	AT TOWER CROWNS & STOREFRONT CORNICES	"DARK BROWN" (LAZB-22S) DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
EIFS-6	EXTERIOR INSULATED FINISHING SYSTEM	AT ACCENT WALLS	"MEDIUM BROWN" (LAZB-24S) DRYVIT SANDPEBBLE FINE TEXTURE FINISH W/ STRATOTONE HIGH PERFORMANCE COLORANT
HM-1	PAINT - HOLLOW METAL DOORS	AT EXTERIOR MAN DOORS	SHERWIN WILLIAMS "TAVERN TAUPE" (SW7508)
P-1	PAINT - NON EIFS ITEMS	AT BASE OF GENERAL BUILDING FACADE	"LIGHT BROWN" (LAZB-20S) - W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-2	PAINT - NON EIFS ITEMS	AT GENERAL BUILDING FACADE	"MEDIUM CREAM" (LAZB-19S) - W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-3	PAINT - NON EIFS ITEMS	AT MAIN ENTRANCE	"NAVY BLUE" (LAZB-25-1022S NAVY BLUE) W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-4	PAINT - NON EIFS ITEMS	AT MAIN ENTRANCE TOWER WALLS	"LIGHT CREAM" (LAZB-23S) W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-5	PAINT - NON EIFS ITEMS	AT TOWER CROWNS & STOREFRONT CORNICES	"DARK BROWN" (LAZB-22S) W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
P-6	PAINT - NON EIFS ITEMS	AT ACCENT WALLS	"MEDIUM BROWN" (LAZB-24S) W/ DRYVIT STRATOTONE HIGH PERFORMANCE COLORANT
PFN-1	PRE-FINISHED METAL	AT DOWNSPOUTS, GUTTERS, & O.H. DOORS	PRE-FINISHED TO MATCH SW 7508 - TAVERN TAUPE



2 WEST
A3.1 | A5.2
3/16" = 1'-0"



GLAZING % CALCULATIONS:

SINGLE STORY FACADE DIMENSIONS:

HEIGHT	(LF)	=	18' - 0"	PROPOSED LOW POINT OF ROOF DECK (A.F.F)
LENGTH	(LF)	=	138' - 0"	PROPOSED BUILDING LENGTH (STREET FACING FACADE ONLY)
GRADE	(SF)	=	176 SQ. FT.	FACADE AREA BELOW GRADE; PER CIVIL DRAWINGS

FACADE SQUARE FOOTAGE CALCULATIONS:

18' - 0" (HEIGHT)	x	138' - 0" (LENGTH)	=	2,484 SQ. FT.
2,484 SQ. FT.	–	176 SQ. FT. (GRADE)	=	**2,308 SQ. FT. (TOTAL FACADE AREA)**

GLAZING PERCENTAGE CALCULATIONS:

GLAZING (SF)	=	480.25 SQ. FT.	PROPOSED AMOUNT OF SPANDREL GLAZING PER NORTH ELEVATION
480.25 SQ. FT.	÷	2,308 SQ. FT.	= **20.8 % GLAZING AREA**

1 NORTH
A3.1 | A5.2
3/16" = 1'-0"

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy

3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
BUILDING ELEVATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A5.2

BUILDING SHELL CONSTRUCTION SET

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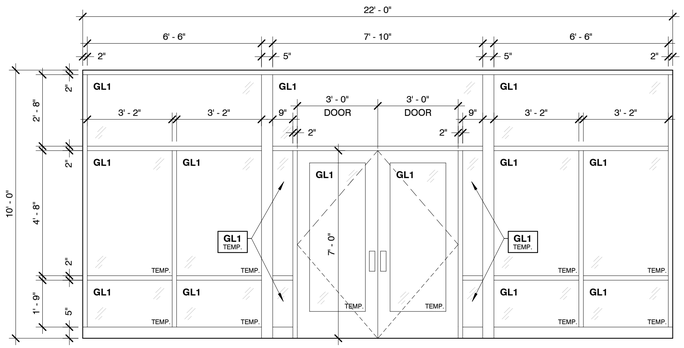
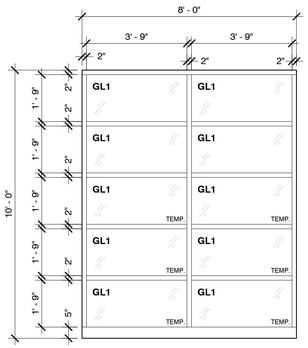


TYPE A
ALUMINUM STOREFRONT FRAMING



TYPE B
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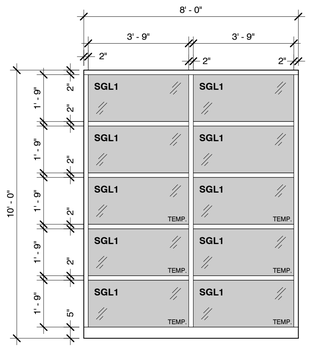
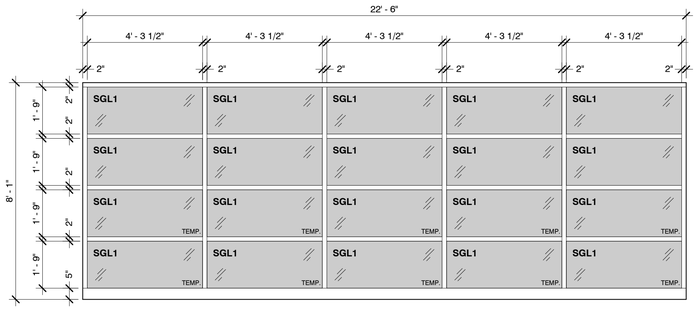
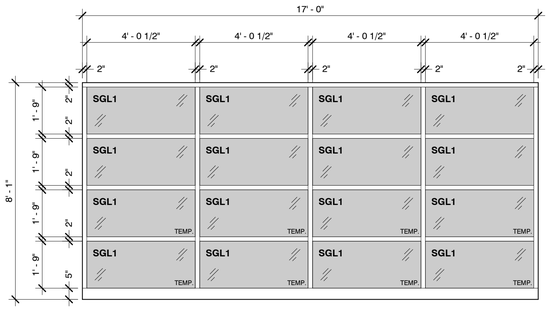


TYPE C
ALUMINUM STOREFRONT FRAMING



TYPE E
ALUMINUM STOREFRONT FRAMING

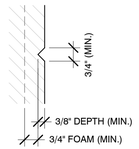


TYPE D
ALUMINUM STOREFRONT FRAMING

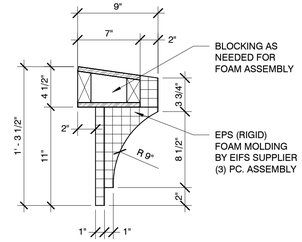
WINDOW TYPES
3/8" = 1'-0"

EIFS JOINT GENERAL NOTES:

1. PROVIDE EXPANSION JOINTS SPACED AS RECOMMENDED BY MANUFACTURER AND AT ALL UNDERLYING EXPANSION OR CONTROL JOINTS IN SUBSTRATE OR WALL ASSEMBLY
2. EXANSION JOINT WIDTH = 3/4" WITH FULL BED OF BACKER ROD AND COLOR MATCH SEALANT
3. LOCATE EIFS EXPANSION JOINTS AT REGULAR V-GROOVE REVEAL SPACING WHEN POSSIBLE; REFER TO ELEVATIONS



4 3/4" EIFS V-GROOVE
A6.1
3" = 1'-0"



3 STOREFRONT CORNICE
A6.1
1 1/2" = 1'-0"

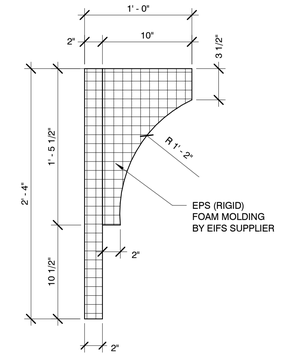
EXTERIOR GLAZING TYPES

GL1 - ARCHITECTURAL GLASS

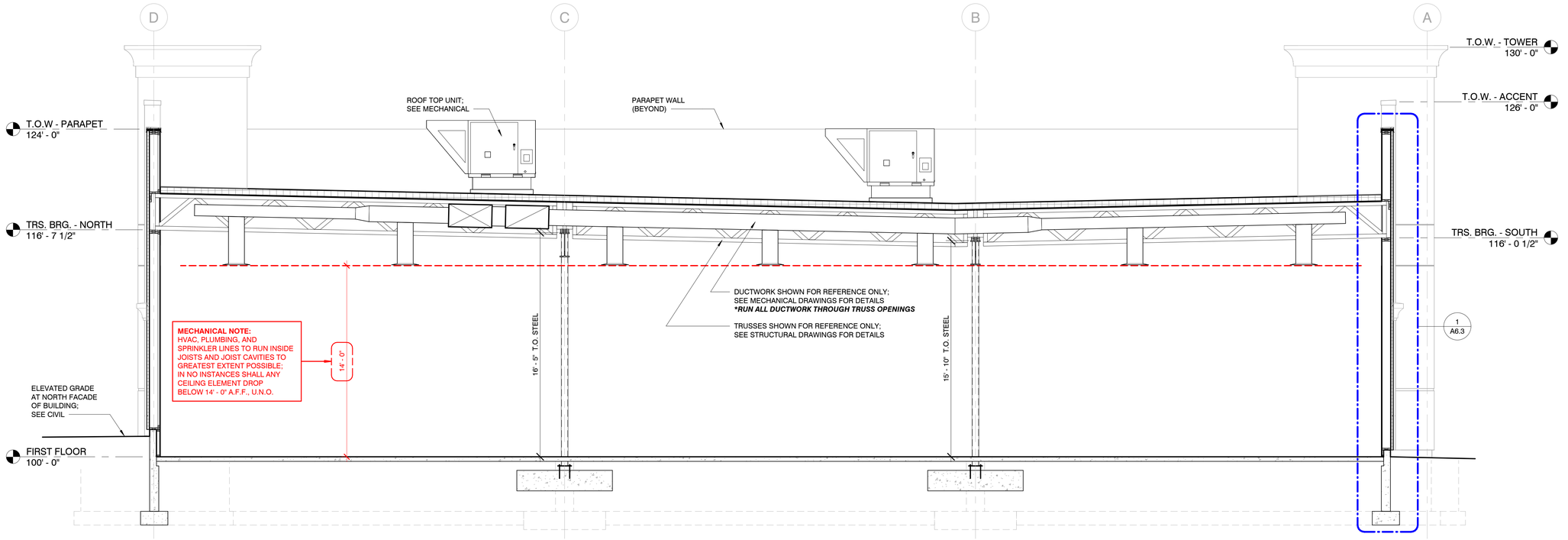
PRODUCT:	1" LOW-E INSULATED GLASS
COLOR:	CLEAR + CLEAR w/SOLARBAN 60
U VALUE (MAX.):	.29 (CHECK VALUES)
VLT:	68% (CHECK VALUES)
SHGC (MAX.):	.25 (CHECK VALUES)

SGL1 - ARCHITECTURAL SPANDREL GLASS

PRODUCT:	1" LOW-E INSULATED GLASS
COLOR:	TBD + CLEAR w/SOLARBAN 60
FRIT LOCATION:	SURFACE #4
U VALUE (MAX.):	.29 (CHECK VALUES)
VLT:	68% (CHECK VALUES)
SHGC (MAX.):	.25 (CHECK VALUES)



2 TOWER CROWN
A6.1
1 1/2" = 1'-0"



1 BUILDING SECTION
A3.1 A6.1
1/4" = 1'-0"

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
BUILDING SECTION, WINDOW TYPES, & DETAILS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A6.1

BUILDING SHELL CONSTRUCTION SET

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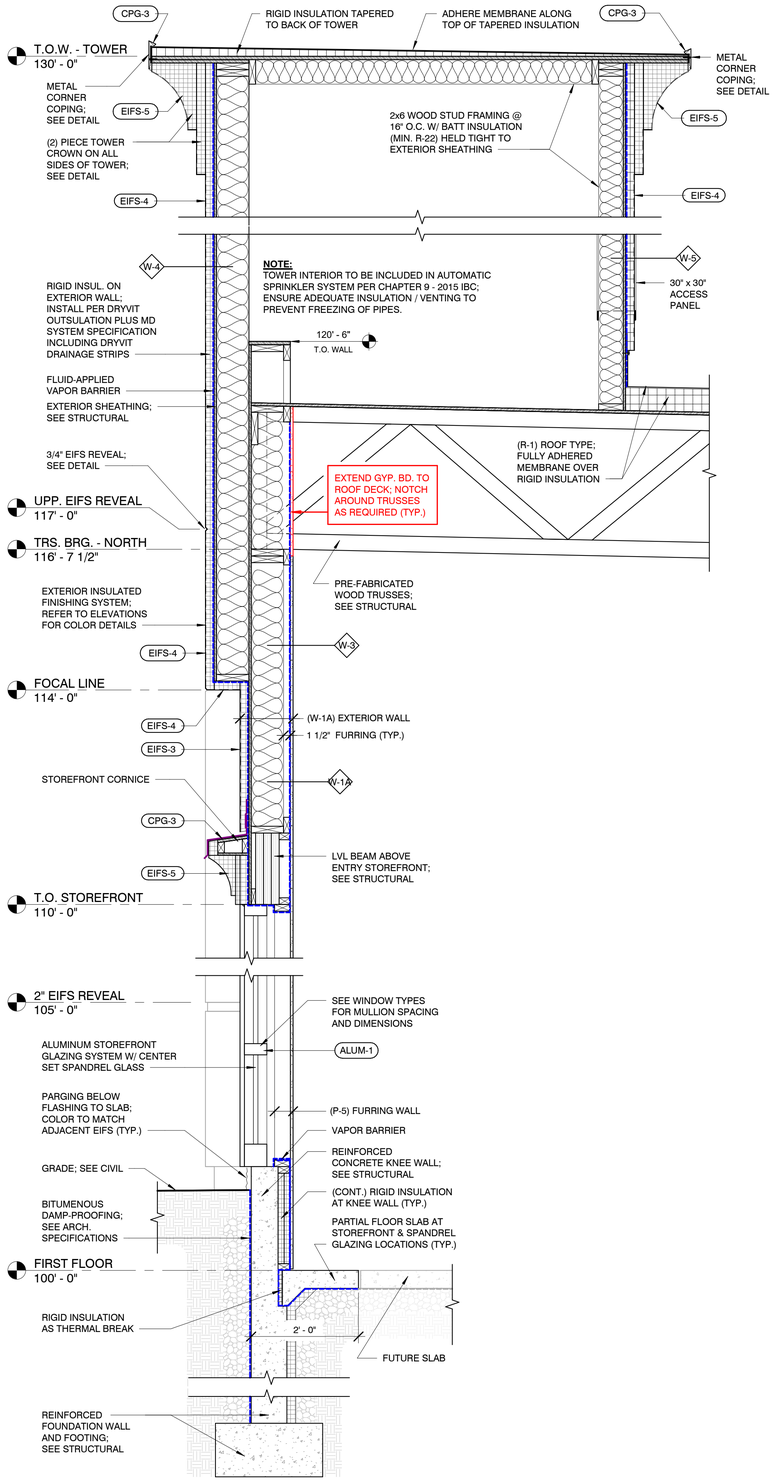
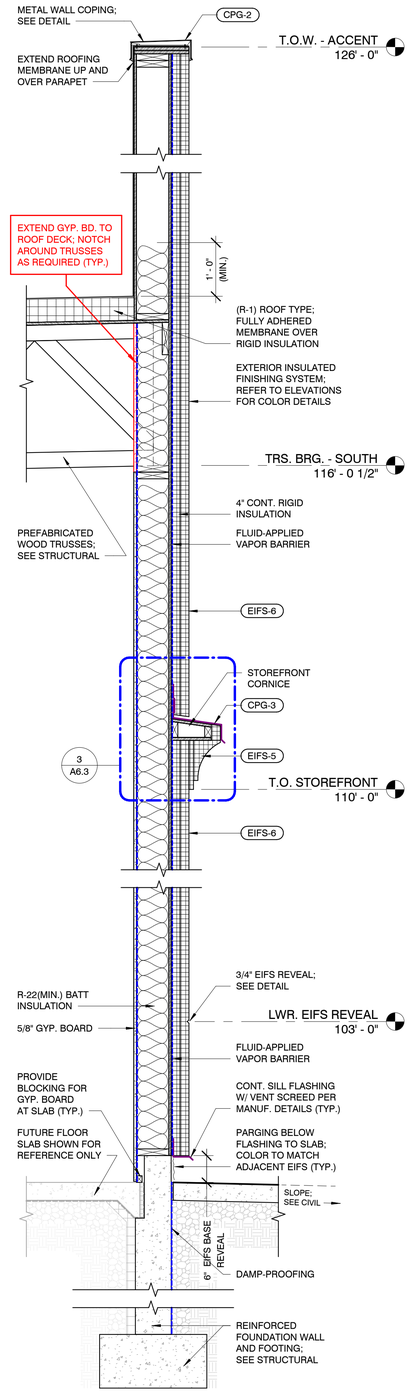


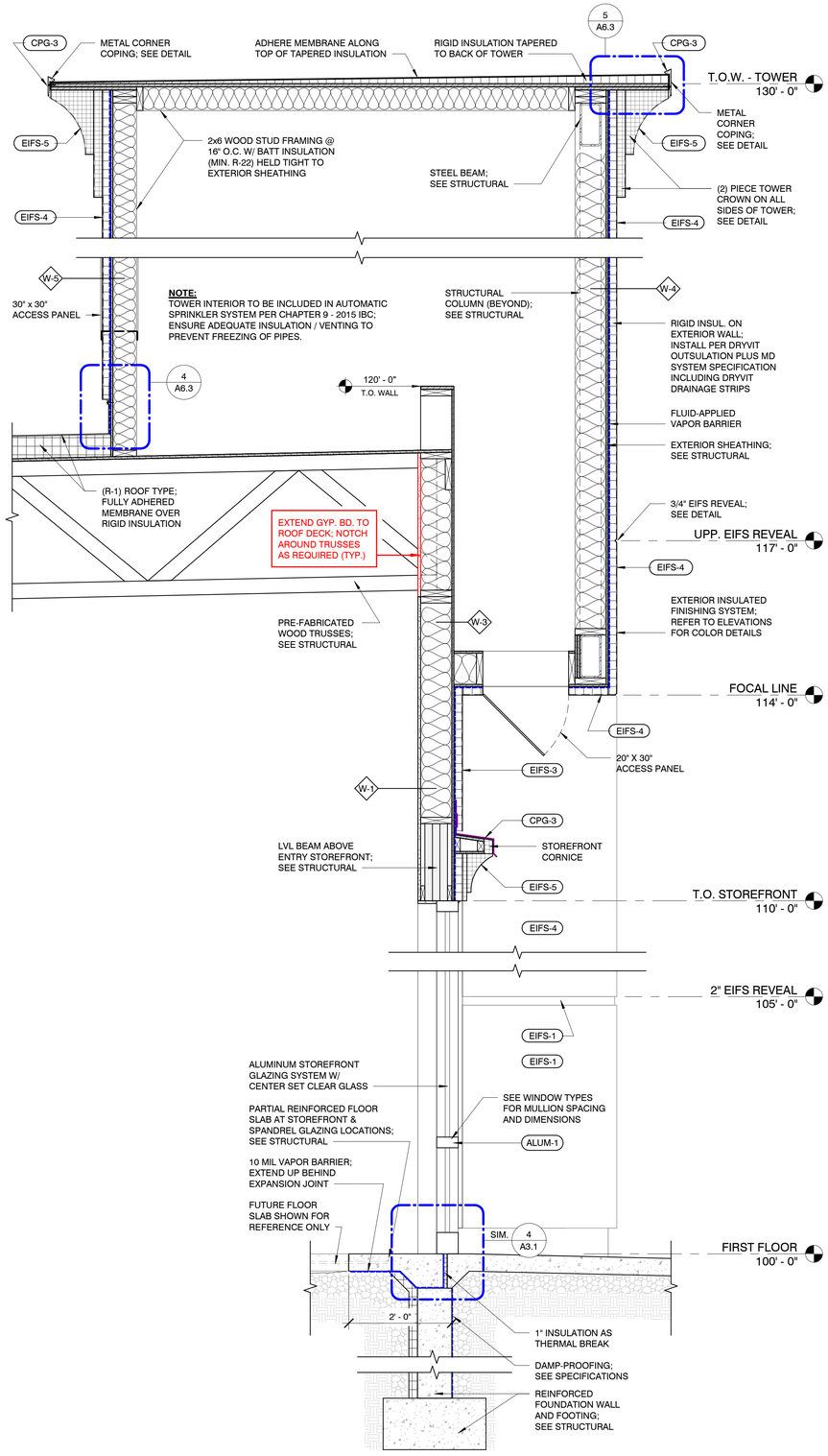
3 A3.1 A6.2 **REAR TOWER**

3/4" = 1'-0"



2 A3.1 A6.2 **ACCENT WALL**

3/4" = 1'-0"



1 A3.1 A6.2 **ENTRY TOWER**

3/4" = 1'-0"

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FOR CONSTRUCTION

La-Z-Boy

3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
WALL SECTIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A6.2

BUILDING SHELL CONSTRUCTION SET

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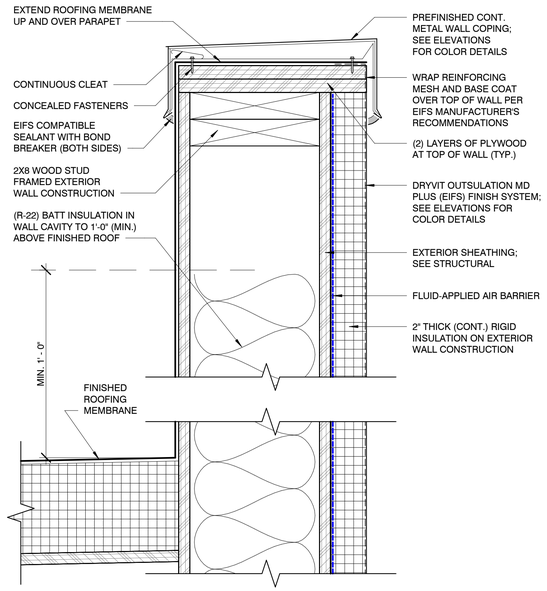
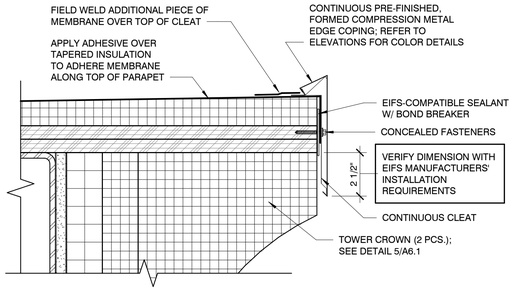


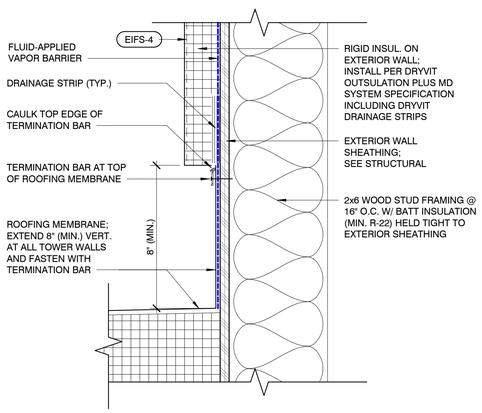
6 A6.3 A6.3 PARAPET WALL COPING

3" = 1'-0"



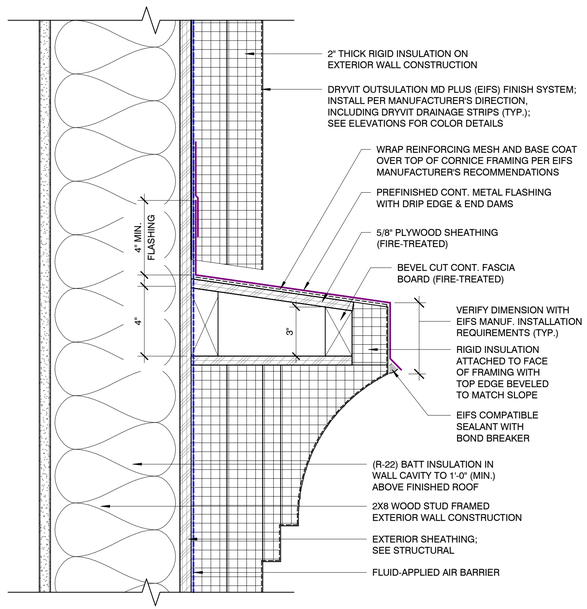
5 A6.2 A6.3 EDGE COPING @ TOWER CROWN

3" = 1'-0"



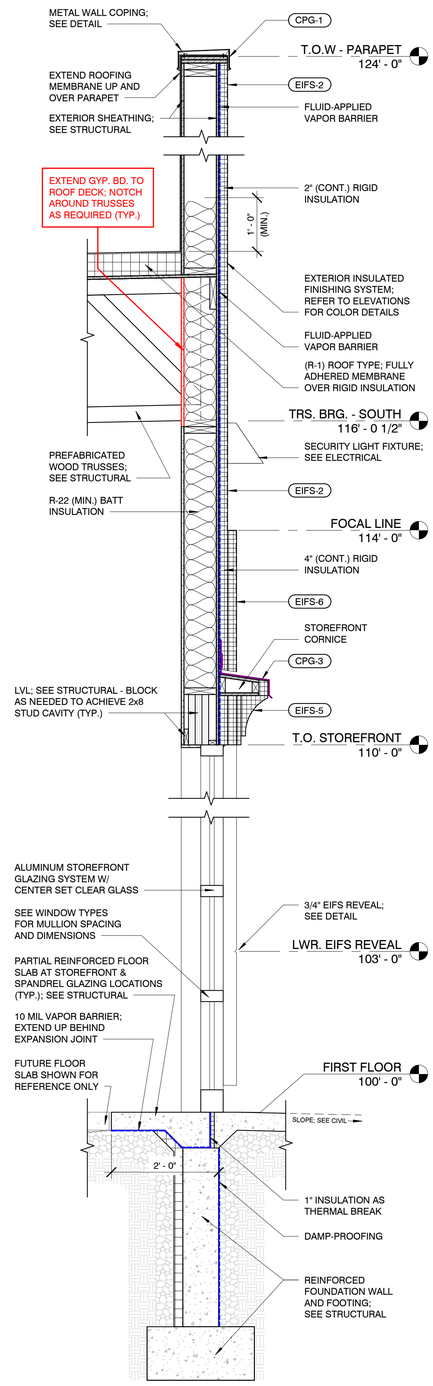
4 A6.2 A6.3 ROOFING TO EIFS DETAIL

3" = 1'-0"



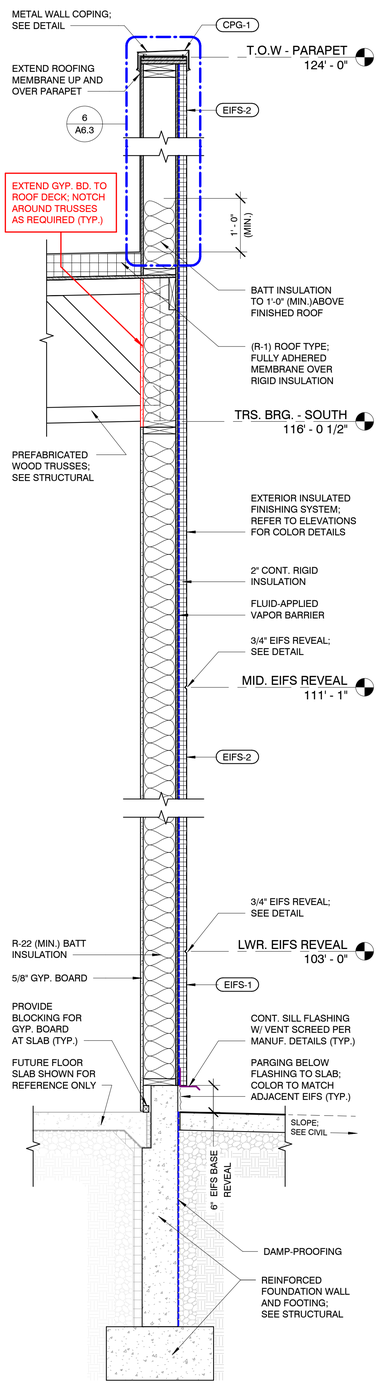
3 A6.2 A6.3 STOREFRONT CORNICE @ EIFS

3" = 1'-0"



2 A3.1 A6.3 FOCAL WALL

3/4" = 1'-0"



1 A3.1 A6.3 TYPICAL WALL

3/4" = 1'-0"

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy

3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
WALL SECTIONS & DETAILS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A6.3

BUILDING SHELL CONSTRUCTION SET

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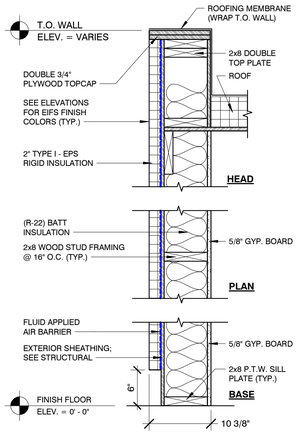
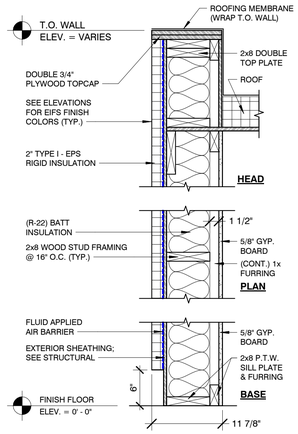
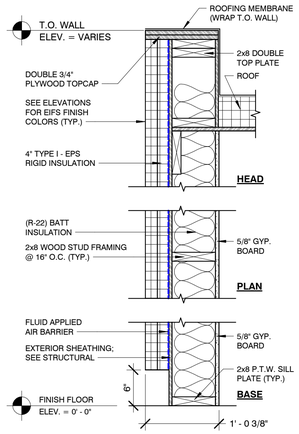
FIRE RATED WALL NOTE:
AT RATED EXTERIOR WALLS, THE EXTERIOR SHEATHING WILL BE REPLACED WITH 5/8" TYPE "X" EXTERIOR GYP. BOARD TO ACHIEVE REQUIRED FIRE RATING.



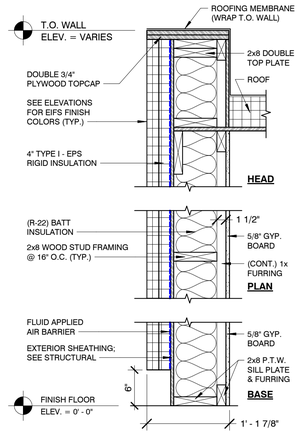
W-1 EXTERIOR WALL
SCALE: 1" = 1'-0"



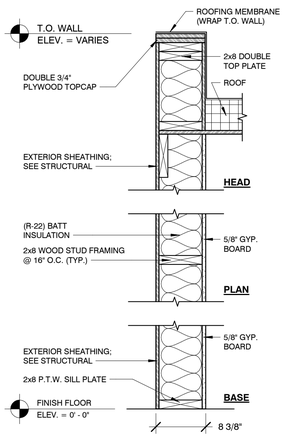
W-1A EXTERIOR WALL
SCALE: 1" = 1'-0"



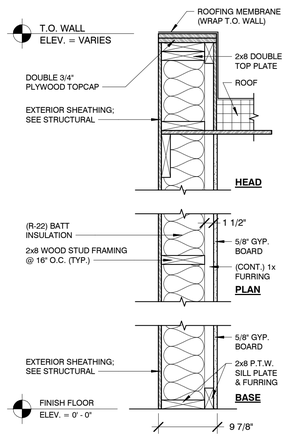
W-2 EXTERIOR WALL
SCALE: 1" = 1'-0"



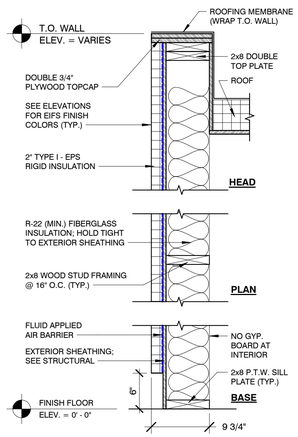
W-2A EXTERIOR WALL
SCALE: 1" = 1'-0"



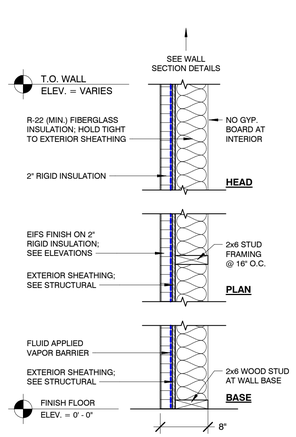
W-3 EXTERIOR WALL
SCALE: 1" = 1'-0"



W-3A EXTERIOR WALL
SCALE: 1" = 1'-0"



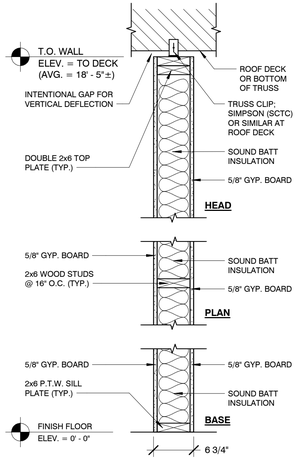
W-4 EXTERIOR WALL
SCALE: 1" = 1'-0"



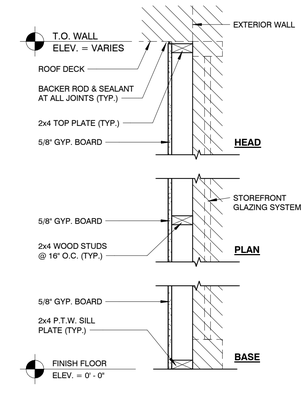
W-5 EXTERIOR WALL
SCALE: 1" = 1'-0"

EXTERIOR WALL TYPES
1" = 1'-0"

FIRE BLOCKING NOTE:
PROVIDE 2x FIRE BLOCKING IN ALL STUD CAVITIES AT 10'-0" O.C. BLOCKING CAN BE OMITTED WHEN STUD CAVITY IS FILL COMPLETLY WITH FIBERGLASS INSULATION.



P-3 PARTITION WALL
SCALE: 1" = 1'-0"



P-5 FURRING WALL
SCALE: 1" = 1'-0"

INTERIOR WALL TYPES
1" = 1'-0"

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
WALL TYPES

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A6.4

BUILDING SHELL CONSTRUCTION SET

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ROOF PLAN GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE ROOFING INSTALLATION WITH MECHANICAL & PLUMBING DRAWINGS. PROVIDE CURBING AND FLASHING AS REQUIRED AT ROOF PENETRATIONS TO MAINTAIN INTEGRITY OF ROOF MEMBRANE.

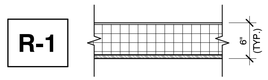
B. ALL GRAVEL STOPS AND COPINGS TO HAVE CONTINUOUS HOLD-DOWN CLIPS.

C. PROVIDE TAPERED EDGE STRIPS AS NECESSARY AT ROOF EDGES.

D. CONCRETE PAVERS: PROVIDE PAVERS AS SPECIFIED FROM ROOF SCUTTLES AND LADDERS TO ALL SERVICE AREAS OF MECHANICAL EQUIPMENT.

E. ALL ROOF PENETRATIONS AND EQUIPMENT CURBS TO BE FLASHED PER MANUFACTURER'S REQUIREMENTS.

F. COORDINATE WITH PLUMBING DRAWINGS FOR ALL ROOF DRAIN LOCATIONS.



FLAT ROOF

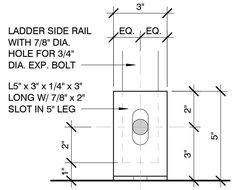
A. FULLY ADHERED WHITE TPO MEMBRANE ROOFING SYSTEM; CLASS "C" OR BETTER.

B. MIN R-30 FLAT RIGID INSULATION; POLYISOCYANURATE BOARD (2 LAYERS W/ STAGGERED JOINTS).

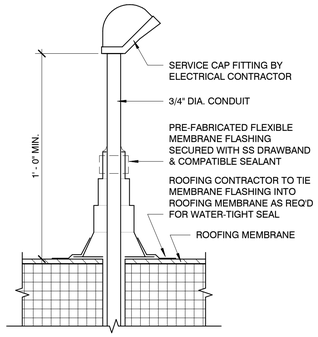
C. WOOD SHEATHING; SEE STRUCTURAL

D. WOOD TRUSSES / FRAMING; SEE STRUCTURAL

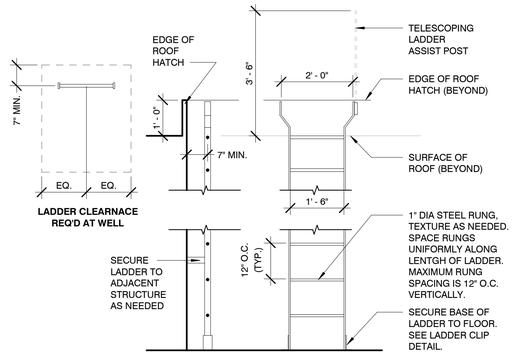
ROOF TYPES
1" = 1'-0"



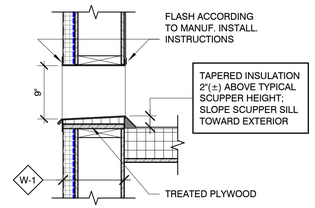
6 LADDER CLIP
A7.1
3" = 1'-0"



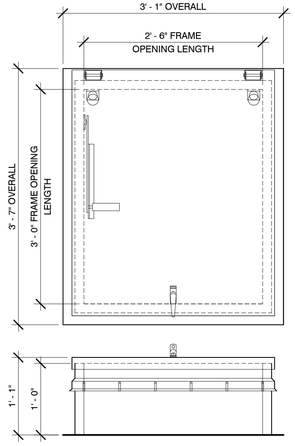
5 ROOF PENETRATION
A7.1
3" = 1'-0"

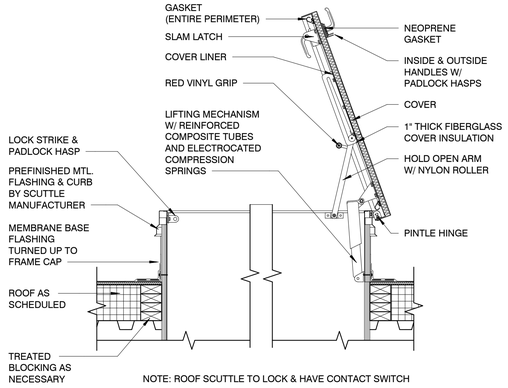


4 ROOF LADDER DETAIL
A7.1
1/2" = 1'-0"



3 OVERFLOW SCUPPER
A7.1
1" = 1'-0"



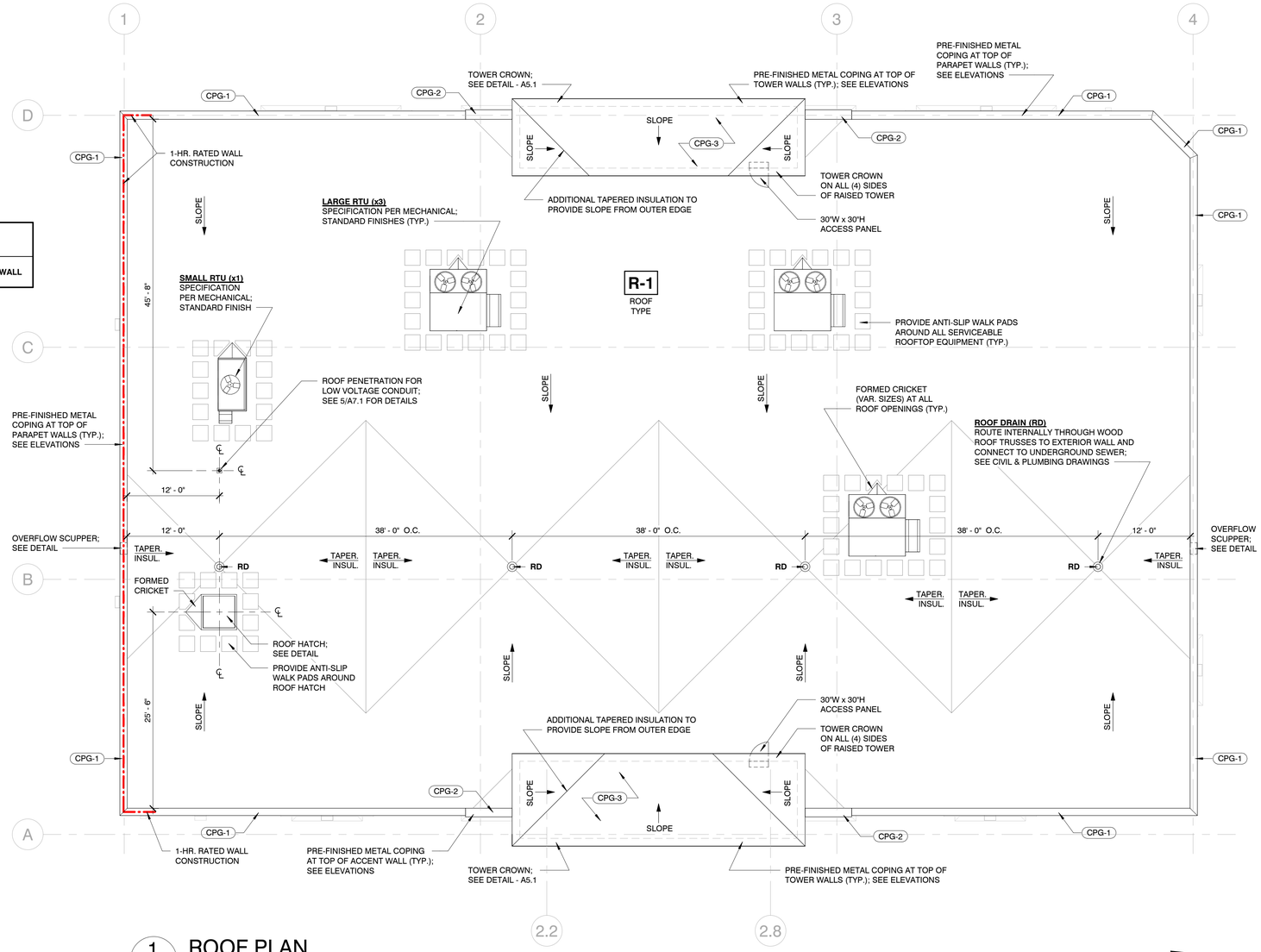


NOTE: ROOF SCUTTLE TO LOCK & HAVE CONTACT SWITCH

2 ROOF HATCH
A7.1
1" = 1'-0"

RATED WALL LEGEND

1 - HOUR FIRE RATED WALL



1 ROOF PLAN
A5.1 A7.1
1/8" = 1'-0"

NORTH

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 10.16.2025

FOR CONSTRUCTION

La-Z-Boy

3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ROOF PLAN & DETAILS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
A7.1

BUILDING SHELL CONSTRUCTION SET

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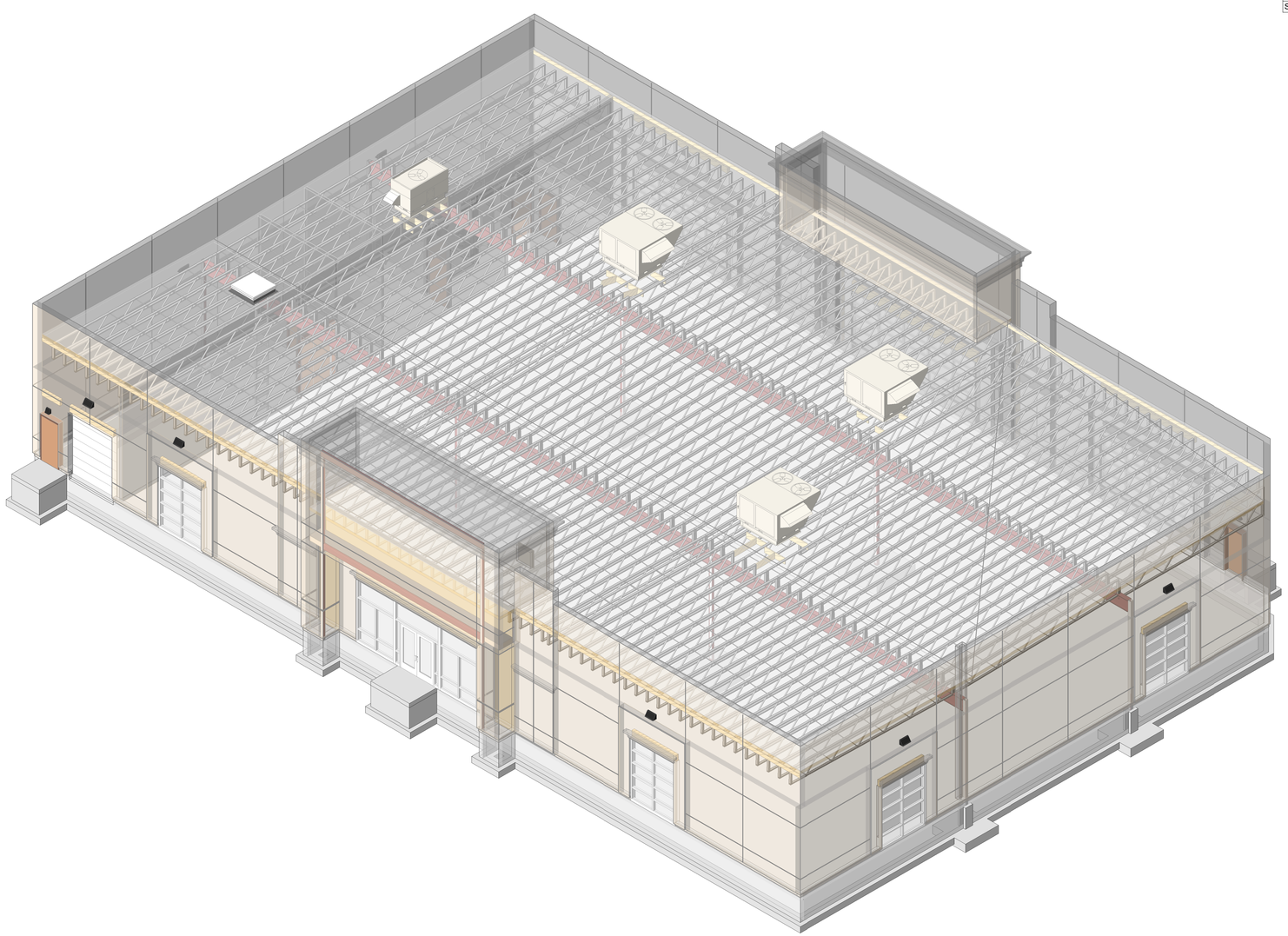
STRUCTURAL SHEET INDEX	
Sheet Number	Sheet Name
S0.0	3D VIEWS AND TITLE SHEET
S0.1	STRUCTURAL GENERAL NOTES
S0.2	STRUCTURAL SCHEDULES
S0.3	STRUCTURAL SCHEDULES
S1.0	FOUNDATION PLAN
S1.1	ROOF FRAMING PLAN
S3.0	CONCRETE SECTIONS & DETAILS
S3.1	CONCRETE SECTIONS & DETAILS
S5.0	STEEL SECTIONS & DETAILS
S6.0	WOOD SECTIONS & DETAILS
S6.1	WOOD ROOF SECTIONS & DETAILS



WISCONSIN
REID C SPIERING
E-45898-6
GERMANTOWN
WI
PROFESSIONAL ENGINEER
10/16/2025

DISCLAIMER: 3D MODEL VIEWS DISPLAYED THROUGHOUT CONSTRUCTION DOCUMENTS PROVIDE A GENERAL REPRESENTATION OF THE STRUCTURAL MODEL ONLY. THESE VIEWS ARE NOT DESIGNED TO SHOW EVERY DETAILED ASPECT, AND MAY NOT BE FULLY ACCURATE. PLEASE REVIEW THE PLANS, SECTIONS, AND DETAILS FOR THE COMPLETE STRUCTURAL REQUIREMENTS. IF DISCREPANCIES EXIST, THE 3D VIEWS WILL NEVER CONTROL.

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FOR CONSTRUCTION

La-Z-Boy
VALLEY VIEW MALL, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
3D VIEWS AND TITLE SHEET

STORE NAME:
LA-Z-BOY LA CROSSE

CORE4 engineering
N70 W5185 Columbia Road
Cedarburg, WI 53012 | 262.236.9372
C4E Project #: 25174

SHEET NO.
S0.0

BUILDING SHELL CONSTRUCTION SET

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DESIGN CRITERIA

1. BUILDING CODE - INTERNATIONAL BUILDING CODE (IBC) 2015 / ASCE7-10
2. DEAD LOADS
   - ROOF 15 PSF
3. ROOF LIVE LOADS 20 PSF
4. FLOOR LIVE LOADS
   - PUBLIC AREAS 100 PSF
   - STORAGE (LIGHT) 125 PSF
   - GARAGES 50 PSF
5. SNOW LOADS
   - GROUND SNOW, Pg 40 PSF
   - EXPOSURE FACTOR, Ce 1.0
   - TEMPERATURE FACTOR, Ct 1.1
   - SLOPED ROOF FACTOR, Cs 1.0
   - IMPORTANCE FACTOR, Is 1.0
   - FLAT ROOF SNOW, Pf 30.8 PSF
   - SLOPED ROOF SNOW, Ps 30.8 PSF
   - SLIDING & DRIFTING SNOW, IN ADDITION TO FLAT ROOF SNOW, SEE PLANS
   - UNBALANCED SNOW PER ASCE 7
6. WIND LOADS
   - ULTIMATE WIND SPEED, V 115 MPH
   - RISK CATEGORY II
   - EXPOSURE CATEGORY C
   - INTERNAL PRESSURE COEFFICIENT, Gcpi ±0.18
   - COMPONENTS & CLADDING NOT DESIGNED BY THE ENGINEER OF RECORD SHALL BE DESIGNED FOR THE WIND PRESSURES SHOWN ON THE COMPONENTS AND CLADDING DIAGRAM. WIND PRESSURES FOR LARGER TRIBUTARY AREAS MAY BE USED BASED ON DELEGATED DESIGN CALCULATIONS.
7. SEISMIC LOADS
   - RISK CATEGORY II
   - IMPORTANCE FACTOR, Ie 1.0
   - SITE CLASS D
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS
     - Ss 0.053 g
     - S1 0.036 g
   - SPECTRAL RESPONSE COEFFICIENTS
     - SDS 0.057 g
     - SD1 0.057 g
   - SEISMIC DESIGN CATEGORY A
   - SEISMIC FORCE RESISTING SYSTEM LIGHT FRAMED WOOD WALLS WITH STRUCTURAL SHEAR PANELS
   - RESPONSE MODIFICATION FACTOR, R 6.5
   - RESPONSE COEFFICIENT, Cs 0.010
   - DESIGN BASE SHEAR Cs x (WEIGHT OF BUILDING)
   - ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
8. SOIL DESIGN VALUES
   - REFERENCE GEOTECHNICAL REPORT NUMBER:
   - PREPARED BY (N/A) DATED ***N/A***
   - **ALL VALUES ARE ASSUMED PER IBC**
   - SOIL UNIT WEIGHT (γ) 120 PCF
   - LATERAL EARTH PRESSURE:
     - ACTIVE (RETAINING WALLS) 45 PSF/FT
     - AT-REST (BASEMENT WALLS) 60 PSF/FT
     - PASSIVE / BEARING PRESSURE LATERAL 150 PSF/FT
   - ALLOWABLE SOIL BEARING PRESSURES
     - VERTICAL (NET) 2,000 PSF
   - LATERAL SLIDING RESISTANCE
     - COEFFICENT OF SLIDING FRICTION 0.25
     - COHESION (CLAY) N/A PSF
   - SUBGRADE MODULUS 150 PCI
10. COMPONENT DESIGN
    - WOOD ROOF TRUSSES
      - DEAD
        - TOP CHORD 10.0 PSF
        - BOTTOM CHORD 5.0 PSF
      - LIVE
        - BOTTOM CHORD 5.0 PSF
      - SNOW
        - TOP CHORD SEE NOTE 5
      - DEFLECTION CRITERIA
        - LL L/360
        - TL L/240

GENERAL REQUIREMENTS

1. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. GENERAL CONTRACTOR TO DISTRIBUTE ALL SHEETS IN THE SET TO SUBCONTRACTORS.
3. THE ARCHITECT AND/OR ENGINEER OF RECORD SHALL NOT HAVE CONTROL OVER OR BE IN CHARGE OF, AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
4. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
5. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
6. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
7. DO NOT PLACE PIPES, DUCTS, CHASES, ETC. IN STRUCTURAL BEAM AND COLUMN MEMBERS. DO NOT CUT ANY STRUCTURAL MEMBER FOR PIPES, DUCTS, ETC., UNLESS NOTED OTHERWISE. NOTIFY STRUCTURAL ENGINEER WHEN DOCUMENTS BY OTHER DISCIPLINES SHOW OPENINGS, POCKETS, ETC. NOT INDICATED IN THE STRUCTURAL DRAWINGS BUT ARE LOCATED IN THE STRUCTURAL MEMBERS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER FOR INSTALLATION OF SUCH PIPES, DUCTS, CHASES, ETC.
8. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS.
9. DELEGATED DESIGNED ELEMENTS SHALL BE DESIGNED BY LICENSED PROFESSIONAL ENGINEERS REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS WERE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. ALLOW MINIMUM 10 BUSINESS DAYS FOR REVIEW BY EOR. ALL DOCUMENTS NOTED SHALL BE SEALED BY THE LICENSED ENGINEER. IF CRITERIA INDICATED ARE NOT SUFFICIENT, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO THE ARCHITECT. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE CONTRACTOR DESIGNED:
   A. WOOD TRUSSES
   B. STEEL STAIRS, LADDERS, HANDRAILS & GUARDS
   C. PREFABRICATED EXTERIOR CANOPIES & BALCONIES
   D. TEMPORARY SHORING DURING CONSTRUCTION

SPREAD FOUNDATIONS

1. ALL FOUNDATIONS SHALL BE SUPPORTED ON APPROVED EXISTING SUBGRADE OR APPROVED COMPACTED STRUCTURAL FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY AS INDICATED IN THE SOIL DESIGN VALUES.
2. SUBSURFACE CONDITIONS SHALL BE IMPROVED TO MEET CAPACITY AS REQUIRED, WHEN RECOMMENDED IN GEOTECHNICAL REPORT.
3. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS, TEST BORINGS OR GEOTECHNICAL REPORTS. THIS DATA IS INCLUDED TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION, AND TO REPRESENT CONDITIONS ONLY AT SPECIFIC LOCATIONS AT THE PARTICULAR TIME THE OBSERVATIONS WERE MADE.
4. ALL EXTERIOR FOUNDATIONS SHALL BEAR ON APPROVED SUBGRADE EXTENDED BELOW THE FROST LINE DEPTH OF THE LOCALITY.
5. FOOTING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EXCAVATION REQUIRED TO REACH SUITABLE BEARING MATERIAL.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS IN ALL EXCAVATIONS AS REQUIRED TO PREVENT HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT OF SURROUNDING SOIL AND/OR PROPERTY WHICH WILL ENDANGER LIVES OR PROPERTY.
7. THE CONTRACTOR SHALL PROVIDE CONTROL OF SURFACE AND SUBSURFACE WATER PROMPTLY TO ENSURE THAT ALL FOUNDATION WORK IS PERFORMED IN A DRY CONDITION.
8. FOUNDATIONS SHALL NOT BE PLACED ON FROZEN SUBGRADE.
9. THE CONTRACTOR SHALL PROTECT IN-PLACE FOUNDATIONS AND SLABS-ON-GRADE FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE.
10. FOUNDATION WALLS SHALL BE BRACED DURING BACKFILLING AND COMPACTION OPERATIONS. BRACING SHALL BE LEFT IN PLACE UNTIL PERMANENT STRUCTURAL SUPPORT SYSTEM IS INSTALLED AND APPROVED BY THE ENGINEER.
11. WHERE FOUNDATION WALLS HAVE FILL ON BOTH SIDES, BACKFILLING SHALL BE DONE SIMULTANEOUSLY ON BOTH SIDES OF THE WALL.

CONCRETE REINFORCING

CODES & STANDARDS:	
ACI 315	*GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS*
ACI 318	*BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE*
MSP2	*CRSI MANUAL OF STANDARD PRACTICE*
AWS D1.4	*STRUCTURAL WELDING CODE - REINFORCING STEEL*
WRI	*WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE*

MATERIALS:		
REINFORCING BARS	ASTM A615 Gr 60	Fy=60 KSI
WELDED WIRE FABRIC	ASTM A185	
MACRO FIBER REINFORCING	ASTM C1116 Type III	
WELDABLE REINFORCING BARS	ASTM A706	Fy=60 KSI

1. THE REINFORCEMENT FABRICATOR SHALL PROVIDE AND SCHEDULE ON SHOP DRAWINGS ALL REQUIRED REINFORCING STEEL AND NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN PLACE AT THE CORRECT LOCATIONS.
2. THE REQUIRED CLEARANCE FOR REINFORCEMENT (UNO) SHALL BE 3" FOR CONCRETE PLACED DIRECTLY AGAINST EARTH, 2" (#6 & LARGER) AND 1 1/2" (#5 & SMALLER) FOR CONCRETE EXPOSED TO EARTH OR WEATHER, 1 1/2" (# 14 & LARGER) AND 3/4" (#11 & SMALLER) FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER.
3. THE CONTRACTOR SHALL REFER TO TYPICAL DETAILS SHOWN ON THE CONTRACT DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS.
4. WHERE REINFORCEMENT IS REQUIRED IN SECTIONS, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
5. WELDED WIRE FABRIC SHALL HAVE A MINIMUM OF 6" LAP AND BE TIED TOGETHER.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF COMPLETION OF REINFORCEMENT INSTALLATION AND ALLOW AT LEAST 24 HOURS BEFORE SCHEDULED CONCRETE PLACEMENT FOR THE ARCHITECT TO INSPECT REINFORCEMENT.
7. MACRO FIBER TO BE 1-1/2" MINIMUM LENGTH, WHERE INDICATED IN CONCRETE SLAB ON GRADE OR METAL DECK SCHEDULE: .

CONCRETE

CODES & STANDARDS:	
ACI 301	*SPECIFICATIONS FOR CONCRETE CONSTRUCTION*
ACI 305	*GUIDE TO HOT WEATHER CONCRETING*
ACI 306	*GUIDE TO COLD WEATHER CONCRETING*
ACI 318	*BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE*

MATERIALS (28 DAY COMPRESSIVE STRENGTH):	
FOOTINGS	f'c=3,000 PSI
INTERIOR SLAB ON GRADE	f'c=4,000 PSI
EXTERIOR SLAB ON GRADE (EXCLUDING SIDEWALKS)	f'c=5,000 PSI
FOUNDATION WALLS / GRADE BEAMS / PIERS	f'c=4,500 PSI
BEAMS / COLUMNS	f'c=4,000 PSI
CONCRETE ON METAL DECK	f'c=4,000 PSI
CONCRETE TOPPING	f'c=4,000 PSI

1. CONCRETE MIX DESIGN (INCLUDING AGGREGATE SIZE, WATER CEMENT RATIO, AIR ENTRAINMENT, ADMIXTURES, SLUMP AND HISTORY OF BREAK TESTS) SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK. CONCRETE SHALL BE NORMAL WEIGHT UNO.
2. MAXIMUM WATER/CEMENT RATIO PERMITTED SHALL BE 0.55 FOR FOOTINGS, 0.50 FOR INTERIOR SLABS ON GRADE, 0.45 FOR BELOW GRADE CONCRETE AND 0.40 FOR CONCRETE EXPOSED TO WATER AND DEICING CHEMICALS.
3. CONCRETE WHICH WILL BE EXPOSED TO THE WEATHER (INCLUDING FOUNDATION WALLS) SHALL HAVE AIR-ENTRAINING ADMIXTURE AS REQUIRED TO PROVIDE 6% ± 1% AIR ENTRAINMENT.
4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4" FOR SLABS ON GRADE, WALLS, BEAMS & COLUMNS, 1" FOR FOOTINGS AND 3/8" FOR TOPPING SLABS. NORMAL WEIGHT AGGREGATE TO CONFORM TO ASTM C33, LIGHTWEIGHT AGGREGATE TO CONFORM TO ASTM C330.
5. CONCRETE SHALL BE EVALUATED ACCORDING TO METHOD 1 OR METHOD 2 AS DESCRIBED IN ACI 301. THE RESULTS OF THESE ANALYSES SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO ANY WORK.
6. THE CONTRACTOR SHALL MAKE PROVISIONS TO ALLOW AN INDEPENDENT TESTING AGENCY TO CAST 4 TEST CYLINDERS FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED, OR FOR ANY DAY'S OPERATION. THE TESTING AGENCY SHALL BE RESPONSIBLE FOR CASTING AND CURING SPECIMENS IN COMPLIANCE TO ASTM C31 AND CASTING TESTING SPECIMENS IN COMPLIANCE TO ASTM C39.
7. DRAWINGS SHOWING THE LOCATION OF CONSTRUCTION JOINTS, CONTROL JOINTS, AND PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE PREPARATION OF REINFORCING SHOP DRAWINGS. MAXIMUM POUR LENGTHS OF WALLS TO BE 40'-0" AND A MINIMUM OF 4'-0" AWAY FROM INTERSECTIONS AND CORNERS.
8. GROUT USED TO SET PLATES SHALL BE NON-SHRINK AND NON-METALLIC.
9. THE CONTRACTOR SHALL USE SMOOTH FORMS FOR EXPOSED CONCRETE SURFACES. BOARD FORMS MAY BE USED FOR UNEXPOSED CONCRETE SURFACES. EARTH FORMS ARE FORBIDDEN.
10. PROVIDE COMPACTED GRANULAR FILL UNDER ALL SLABS ON GRADE, SEE CONCRETE SLAB ON GRADE SCHEDULE.
11. VAPOR BARRIER TO BE AS INDICATED ON TYPICAL SLAB JOINT DETAIL, LAP MINIMUM 6" AND TAPE ALL SEAMS. VERIFY ADDITIONAL REQUIREMENTS WITH ARCHITECTURAL SPECIFICATIONS.
12. FLOOR FLATNESS AND LEVELNESS OF SLAB ON GRADE CONCRETE SHALL HAVE THE FOLLOWING TOLERANCES, AS RECOGNIZED BY THE MOST CURRENT VERSION OF ASTM E 1155 AND ACI 302.1. SEE SPECIFICATION FOR FURTHER REQUIREMENTS (F(F) SPECIFIED OVERALL VALUE (SOV) OF 50, MINIMUM LOCALIZED VALUE (MLV) OF 25 AND F(L) SPECIFIED OVERALL VALUE (SOV) OF 33, MINIMUM LOCALIZED VALVE (MLV) OF 17).

STRUCTURAL WOOD CONSTRUCTION

CODES & STANDARDS:	
AWC NDS	*NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION*
AWC SDPWS	*SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC*
APA A190.1	*STRUCTURAL GLUED LAMINATED TIMBER*
APA PDS	*PANEL DESIGN SPECIFICATION*
AWC WFMC	*WOOD FRAME CONSTRUCTION MANUAL FOR ONE & TWO FAMILY DWELLINGS*

MATERIALS:		SPECIES/GRADE
SAWN LUMBER	ASTM D1990-96A OR ASTM D245	
WALL STUDS		SPF STUD
COLUMNS		SPF No.1/No.2
JOISTS & BEAMS		SPF No.1/No.2
I-JOISTS	ASTM D5055	
LSL		
WALL STUDS		1.3E
RIM BOARD		1.3E Fcp = 710 PSI
LVL		
WALL STUDS	ASTM D5055	
HEADERS		2600 Fb, 2.0E
PSL		
BEAMS	ASTM D5055	2.0E
COLUMNS		1.8E
GLUE-LAMINATED TIMBER	AITC A190.1 & ASTM D3737	DF BALANCED 24F -1.8E
WOOD PANELS (COMPOSITE, ORIENTED STRANDBOARD & PLYWOOD)	DOC PS 1 OR PS 2	APA RATED
PRESERVATIVE TREATED WOOD	AWPA STD U1 & M4	**S. PINE No.2**
FIRE-RETARDANT TREATED LUMBER	IBC 2303.2 ASTM E84 CLASS A	
TONGUE & GROOVE DECKING	AMERICAN FOREST AND PAPER ASSOCIATION WOOD CONSTRUCTION DATA 2	Fb=1000 PSI E=1.8 KSI

1. ALL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15% PRIOR TO INSTALLATION. MOISTURE CONTENT SHALL BE DETERMINED PER ASTM D4442.
2. ALL WOOD SHALL BE PROTECTED FROM MOISTURE BEFORE INSTALLATION. ALL WOOD STORED AT THE BUILDING SITE SHALL BE ELEVATED 6" ABOVE THE GROUND AND COVERED WITH PLASTIC TARPAULINS.
3. ALL STRUCTURAL WOOD SHALL MEET OR EXCEED ALLOWABLE UNIT STRESSES AND/OR GRADE AS REQUIRED BY THE DRAWINGS.
4. JOISTS SHALL BE BRIDGED WITH 1" X 3" CROSS BRIDGING, OR SOLID BLOCKING, AT INTERVALS NOT EXCEEDING 8'-0" OC AND AT JOIST ENDS.
5. ALL WOOD PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, MASONRY OR CONCRETE SHALL HAVE A PRESERVATIVE TREATMENT EQUAL TO 0.4 PCF RETENTION OF PRESSURE INJECTED PRESERVATIVE.
6. ALL JOISTS AND RAFTERS SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS OR JOIST HANGERS.
7. WOOD MEMBERS SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE OR MASONRY WITHOUT BEING MADE OF NATURALLY DURABLE OR PRESERVATIVE TREATED WOOD UNLESS 1/2" AIR SPACE IS PROVIDED AROUND (TOP, SIDES, END) OF WOOD RAFTERS/JOISTS/GIRDERS; IMPERVIOUS MOISTURE BARRIER OR 1" ELEVATED BASE IS PROVIDED AT WOOD COLUMNS; IMPERVIOUS MOISTURE BARRIER IS PROVIDED AT SILL PLATES.
8. WOOD ROOF & FLOOR STRUCTURAL PANELS SHALL BE LAID WITH THE LONG PANEL DIRECTION PERPENDICULAR TO THE SUPPORTING MEMBERS, WITH ENDS STAGGERED.
9. WOOD STRUCTURAL PANELS SHALL BEAR THE APPROPRIATE GRADING STAMP BY THE REVIEWING AGENCY.
10. ALL NAILS GIVEN ON THE PLANS SHALL BE CONSIDERED "COMMON NAILS" UNLESS NOTED ON THE PLANS.
11. ALL FASTENERS FOR WOOD CONSTRUCTION CONNECTORS (JOIST HANGERS, ETC.) SHALL BE PROVIDED BY OR APPROVED BY THE CONNECTOR'S MANUFACTURER.
12. ALL FASTENERS AND WOOD CONSTRUCTION CONNECTORS IN CONTACT WITH FIRE RETARDANT TREATED WOOD OR PRESERVATIVE-TREATED WOOD SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS FASTENERS AND WOOD CONSTRUCTION CONNECTORS SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL.
13. ALL BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS BETWEEN THE HEAD OR NUT AND THE WOOD SURFACE.
14. NO WOOD MEMBER SHALL BE CUT, NOTCHED, OR DRILLED WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE EOR.
15. THE GLUE-LAMINATED TIMBER FABRICATOR SHALL SUBMIT DRAWINGS AND CALCULATIONS, INCLUDING CONNECTIONS, TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.

PREFABRICATED WOOD TRUSSES

CODES:	
TRUSS PLATE INSTITUTE	*DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES*

1. THE WOOD TRUSS FABRICATOR SHALL SUBMIT CALCULATIONS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.
2. THE WOOD TRUSSES SHALL BE ERECTED AND BRACED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN "BRACING OF WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS".
3. ALL WOOD TRUSSES SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS, COLUMNS, OR JOIST HANGERS.
4. DESIGN LOADS FOR TRUSSES SHALL BE AS NOTED ON DRAWINGS.
5. DESIGN TRUSS MEMBERS FOR CONCENTRATED LOADS OF SPRINKLER PIPING AND OTHER MECHANICAL LOADS.

STRUCTURAL STEEL

CODES & STANDARDS:	
AISC 360	*SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS*
AISC	*CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES*
AWS D1.1	*STRUCTURAL WELDING CODE - STEEL*
AISC	*STRUCTURAL STEEL DETAILING MANUAL*

MATERIALS:		
HOT ROLLED W & WT SHAPES	ASTM A992	Fy=50 KSI
ANGLES, CHANNELS & PLATES	ASTM A36	Fy=36 KSI
S + M SHAPES	ASTM A36	Fy=36 KSI
HP SHAPES	ASTM A572 Gr 50	Fy=50 KSI
STEEL PIPE	ASTM A53 Gr B	Fy=35 KSI
RECTANGULAR HSS	ASTM A500 Gr C	Fy=50 KSI
ROUND HSS	ASTM A500 Gr C	Fy=46 KSI
HIGH STRENGTH BOLTS	ASTM A325	
HEAVY HEX NUTS	ASTM A563	
HARDENED STEEL WASHERS	ASTM A436	
ANCHOR RODS	ASTM F1554 Gr 36	Fy=36 KSI
THREADED RODS	ASTM A36	Fy=36 KSI
HEADED STUD ANCHORS	ASTM A108	

1. PROVIDE 2 MIL THICKNESS RED OR GRAY OXIDE PRIMER ON ALL STEEL SURFACES (UNO).
2. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND FASTENERS HOT DIPPED GALVANIZED PER ASTM A153.
3. ANCHOR RODS SHALL BE PRESET WITH TEMPLATES.
4. COLUMN BASE PLATES SHALL BE GROUTED UNDER WITH NON-SHRINK, NON-METALLIC GROUT.
5. CONNECTIONS MAY BE BOLTED OR WELDED AT THE FABRICATORS OPTION. BOLTED CONNECTIONS SHALL BE A MINIMUM BOLT DIAMETER OF 3/4" (UNO), HIGH STRENGTH BOLTS IN SINGLE OR DOUBLE SHEAR (UNO) AND SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION PER AISC REQUIREMENTS FOR UNRESTRAINED MEMBERS.
6. THE MINIMUM FILLET WELD SIZE SHALL NOT BE LESS THAN 3/16" (UNO).
7. ALL WELDS SHALL USE WELD METAL CONFORMING TO E70XX AND CONFORMING TO AWS WELDING PROCEDURES AND STANDARDS.
8. ALL WELDS SHALL BE MADE BY AWS CERTIFIED WELDERS CERTIFIED IN THE POSITION IN WHICH THE WELD IS TO BE MADE.
9. THE ERECTION OF ANY STRUCTURAL STEEL MEMBERS SHALL NOT COMMENCE UNTIL ALL SUPPORTING CONCRETE/MASONRY ELEMENTS HAVE ATTAINED AT LEAST 75% OF THEIR INTENDED MINIMUM COMPRESSIVE STRENGTH.
10. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS AS REQUIRED FOR THE SAFE ERECTION OF ALL STEEL. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND FLOOR SLAB CONCRETE HAS ATTAINED 75% OF ITS REQUIRED STRENGTH.
11. STRUCTURAL STEEL SHALL BE TRUE AND PLUMB BEFORE FINAL BOLTING OR WELDING OF CONNECTIONS.
12. THE CONTRACTOR SHALL NOT MODIFY OR CUT ANY STRUCTURAL STEEL WITHOUT WRITTEN APPROVAL FROM THE EOR.
13. THE CONTRACTOR SHALL FIELD TOUCH UP ALL ABRASIONS, BURNS, AND SIMILAR DEFECTS IN PAINT OF STRUCTURAL STEEL.
14. PROVIDE 1/4" CLOSURE/END PLATES FOR ALL OPEN ENDS OF HSS & PIPE MEMBERS.
15. CONTRACTOR SHALL INCLUDE IN PROPOSAL COST TO FURNISH, DELIVER, FABRICATE AND ERECT 1.0 TONS OF STRUCTURAL STEEL IN ADDITION TO THAT SPECIFIED IN THE CONSTRUCTION DOCUMENTS. ANY UNUSED MATERIAL SHALL BE CREDITED TO THE OWNER AT THE END OF THE PROJECT.

STEEL STAIRS, LADDERS, HANDRAILS AND GUARDS

1. ENGINEERED STEEL STAIR SYSTEM: STRINGERS, HEADERS, LANDINGS, RAILINGS. GUARD RAILS AND CONNECTIONS TO THIS STRUCTURE SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE LOCATION OF THIS BUILDING. PROVIDE SIGNED & SEALED STRUCTURAL CALCULATIONS WITH SHOP DRAWING SUBMITTAL.
2. THE CONFIGURATION OF THE STEEL STAIR SYSTEM SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
3. THE LOADS REQUIRED FOR THE DESIGN OF THE STEEL STAIR SYSTEM SHALL BE AS INDICATED ON THE "DESIGN LOADS" SECTION OF THESE NOTES.
4. THE SHOP DRAWINGS SHALL INDICATE LOADS IMPOSED ON THE BUILDING STRUCTURE BY THE STAIR STRUCTURE.

POST- INSTALLED ANCHORS

1. THE DIAMETER, EMBEDMENT LENGTH AND TYPE OF ADHESIVE ANCHORS AND SCREW ANCHORS SHALL BE AS SPECIFIED ON THE DRAWINGS.
2. THE SUBSTITUTION OF OTHER MANUFACTURER'S SIMILAR PRODUCTS IS ALLOWED, PROVIDED THAT THE SIZE IS EQUAL TO, AND CAPACITY IN SHEAR AND UPLIFT ARE EQUAL TO OR GREATER THAN WHAT IS SPECIFIED ON THE DRAWINGS. THE COST OF REDESIGN OF SUCH SUBSTITUTIONS SHALL BE BORE BY THE CONTRACTOR.
3. INSTALLATION OF ANCHORS SHALL STRICTLY FOLLOW ALL MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS. ALL DRILL HOLE PREPARATIONS SHALL BE FOLLOWED.
4. NO LOAD SHALL BE APPLIED TO ADHESIVE ANCHORS PRIOR TO THE FULL CURE TIME AS SPECIFIED BY THE MANUFACTURER.
5. TESTING OF 10% OF ALL INSTALLED ANCHORS IS REQUIRED. TESTED ANCHORS SHALL MEET THE MANUFACTURERS PROOF LOAD REQUIREMENTS AND/OR INSTALLATION TORQUE REQUIREMENTS. MALFUNCTIONING FASTENERS SHALL BE REPLACED.
6. ALL ADHESIVE ANCHOR INSTALLATIONS IN THE HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE CONDUCTED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER AS CERTIFIED BY ACI PER 318-11 9.2.2 OR AC1 318-14 17.8.2.2 OR ACI 318-19 17.2.3. OR APPROVED EQUIVALENT. CURRENT AAI CERTIFICATE MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY ADHESIVE ANCHOR INSTALLATIONS.
7. ADHESIVE ANCHORS IN CRACKED AND UNCRACKED CONCRETE SHALL BE DEWALT PURE 220+ (ICC-ES ESR 5144) OR SIMPSON SET 3G OR HILTI RE 500 V3.
8. SCREW ANCHORS IN CRACKED AND UNCRACKED CONCRETE SHALL BE DEWALT SCREW-BOLT+ (ICC-ES ESR 4042) OR SIMPSON TITEN HD OR HILTI KWIK KH-EZ / KWIK.

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FOR CONSTRUCTION

La-Z-Boy
VALLEY VIEW MALL, LA CROSSE, WI 54601

ISSUED FOR:
fCONST. SET 10.16.2025

SHEET TITLE:
STRUCTURAL GENERAL NOTES

STORE NAME:
LA-Z-BOY LA CROSSE

CORE4 engineering
N70 W5185 Columbia Road
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C4E Project #: 25174

SHEET NO.
S0.1

BUILDING SHELL CONSTRUCTION SET

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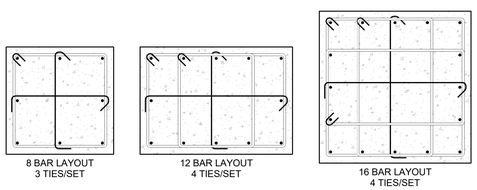
FOOTING SCHEDULE					
MARK	DIMENSIONS			REINFORCING	REMARKS
	WIDTH	LENGTH	THICKNESS		
F6	6'-0"	6'-0"	1'-4"	(8) #5 EW	
F7	7'-0"	7'-0"	1'-6"	(7) #6 EW	

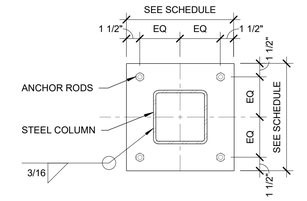
CONCRETE SLAB ON GRADE SCHEDULE					
MARK	CONCRETE SLAB			COMPACTED GRAVEL THICKNESS	REMARKS
	TYPE	THICKNESS	SLAB REINFORCING		
SOG 4	NWC	4"	FORTA FERRO FIBER REINFORCING (3 LB/CY)	6"	SEE TYPICAL SLAB JOINT DETAIL

PIER SCHEDULE						
MARK	DIMENSIONS			REINFORCING		REMARKS
	DIAMETER	WIDTH	LENGTH	VERTICAL	TIES	
P16		1'-4"	1'-4"	(8)-#6	#3 @1'-0" OC	



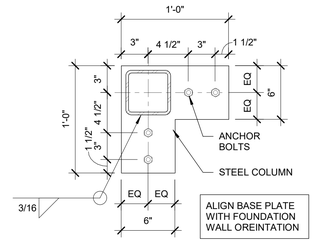
WOOD DECK/SHEATHING SCHEDULE						
MARK	SYSTEM DEPTH	STRUCTURAL LAYER		TOPPING/OVERLAYMENT		REMARKS
		TYPE	THICKNESS	TYPE	THICKNESS	
WD062	5/8"	PLYWOOD/OSB WOOD SHEATHING	5/8"	-		PROVIDE SIMPSON PSC CLIPS AT PANEL EDGES

STEEL COLUMN SCHEDULE						
T/Parapet						T/Parapet
130'-0"						130'-0"
Deck BRG						Deck BRG
118'-0 5/8"	HSS5X5X5/16	HSS6X6X5/16	HSS6X6X3/8	HSS6X6X5/16	HSS6X6X3/8	118'-0 5/8"
FIRST FLOOR						FIRST FLOOR
100'-0"						100'-0"
Column Locations	A-2.2, A-2.8	B-1, B-4	B-2, B-3	C-1, C-4	C-2, C-3	
Base PL Size	12" X 12"	12" X 12"	12" X 12"	12" X 12"	12" X 12"	Base PL Size
Base PL Thick	3/4"	7/8"	7/8"	7/8"	7/8"	Base PL Thick
Anchor Rods	3/4" Ø	3/4" Ø	3/4" Ø	3/4" Ø	3/4" Ø	Anchor Rods
Base PL Detail	B	A	A	A	A	Base PL Detail
Remarks						Remarks



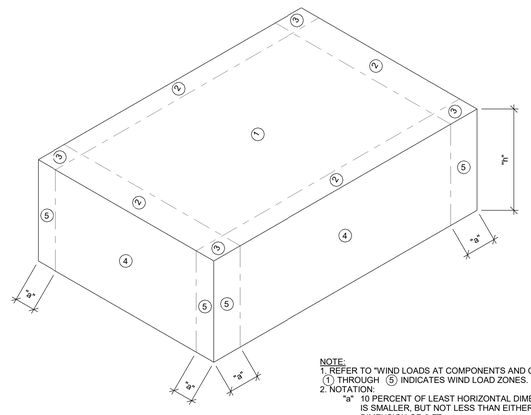
A / S0.2 BASE PLATE A

SCALE: 1 1/2" = 1'-0"



B / S0.2 BASE PLATE B

SCALE: 1 1/2" = 1'-0"



NOTE:
1. REFER TO "WIND LOADS AT COMPONENTS AND CLADDING" FOR DEFINITIONS.
(1) THROUGH (5) INDICATES WIND LOAD ZONES.
2. NOTATION:
"a" 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4" OF LEAST HORIZONTAL DIMENSION OR 3 FT.
"h" MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR Ø ≤ 10°
"Ø" ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.

ULTIMATE ROOF SURFACE PRESSURE (PSF)			
AREA (SF)	10.0	100.0	500.0
NEGATIVE ZONE 1	-52.6	-42.8	-35.9
NEGATIVE ZONE 2	-82.5	-68.8	-59.2
NEGATIVE ZONE 3	-112.4	-94.8	-82.5
POSITIVE ZONE 1	16.0	16.0	16.0
POSITIVE ZONES 2 & 3	-	-	-
OVERHANG ZONE 1 & 2	-	-	-
OVERHANG ZONE 3	-	-	-
ULTIMATE PARAPET SURFACE PRESSURE (PSF)			
AREA (SF)	10.0	50.0	100.0
CASE A: INTERIOR ZONE	106.4	94.0	87.7
CASE A: CORNER ZONE	136.4	121.2	113.8
CASE B: INTERIOR ZONE	-59.9	-55.1	-51.6
CASE B: CORNER ZONE	-89.8	-79.4	-71.5
ULTIMATE WALL SURFACE PRESSURE (PSF)			
AREA (SF)	20.0	100.0	200.0
NEGATIVE ZONE 4	-35.9	-32.6	-31.2
NEGATIVE ZONE 5	-65.9	-52.6	-46.8
POSITIVE ZONE 4 & 5	35.9	30.9	28.8

1 / S0.2 COMPONENTS & CLADDING DIAGRAM

SCALE: 1" = 1'-0"

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FOR CONSTRUCTION

La-Z-Boy
VALLEY VIEW MALL, LA CROSSE, WI 54601

ISSUED FOR:
fCONST. SET 10.16.2025

SHEET TITLE:
STRUCTURAL SCHEDULES

STORE NAME:
LA-Z-BOY LA CROSSE

CORE4 engineering
N70 W5185 Columbia Road
Cedarburg, WI 53012 | 262.236.9372
C4E Project #: 25174

SHEET NO.
S0.2

BUILDING SHELL CONSTRUCTION SET

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SHEARWALL SCHEDULE

MARK	BLOCKED/ UNBLOCKED	EXTERIOR SHEATHING		INTERIOR SHEATHING		SILL PLATE ANCHOR SPACING
		TYPE	FASTENING	TYPE	FASTENING	
SW1	BLOCKED	APA RATED 7/16	8d (1-3/8" PEN MIN) NAILS @ 6/12	5/8" GYPSUM	No. 6 DRYWALL SCREWS (1-1/4") @ 8/12	5/8" Ø SIMPSON TITEN HD ANCHORS @ 16" OC (2-3/4" EMBED)
SW2	BLOCKED	APA RATED 7/16	10d (1-3/8" PEN MIN) NAILS @ 4/12	5/8" GYPSUM	No. 6 DRYWALL SCREWS (1-1/4") @ 8/12 or 5d D COOLER NAILS @ 7/7	5/8" Ø SIMPSON TITEN HD ANCHORS @ 16" OC (2-3/4" EMBED)

NOTES:
1. SEE TYPICAL SHEARWALL DETAIL.
2. LETTER AFTER SHEARWALL DESIGNATIONDENOTES ANCHORAGE TYPE, SEE SHEARWALL ANCHORAGE SCHEDULE.

SHEARWALL ANCHORAGE

LABEL	STRAP	HOLDOWN	THREADED ROD Ø	ENDPOST
A	CS20 W/ (16) 0.131 x 2-1/2 FASTENERS (9" END LENGTH)	(2) DTT2Z-SDS2.5	1/2"	(2) 2x4 (@ EACH STRAP/HOLDOWN)
B	CS16 W/ (26) 0.131 x 2-1/2 FASTENERS (14" END LENGTH)	HDU5-SDS2.5	5/8"	(3) 2x

NOTE:
1. SEE TYPICAL HOLDOWN ANCHORAGE DETAIL FOR THREADED ROD EMBEDMENT LENGTH AND ANCHORAGE REINFORCING.
2. HOLDOWNS ONLY REQUIRED AT CONCRETE, USE STRAPS ELSEWHERE. SEE TYPICAL SHEARWALL DETAIL.
3. AT STRAPS, PROVIDE 1/2 OF SPECIFIED NAILS IN EACH END LENGTH. BETWEEN END LENGTHS, PROVIDE NAILS @ 6" ON CENTER.
4. IF SHEARWALL ENDS ARE UNALIGNED, CONTINUE END POST TO FOUNDATION AND PROVIDE HOLDOWN. IF SHEARWALL IS SUPPORTED BY BEAM, PROVIDE STRAPS AND WRAP AROUND BEAM.
5. WHEN SHEAR WALL IS ADJACENT TO WOOD COLUMN, USE LARGER OF COLUMN OR END POST. WHEN ADJACENT TO STEEL COLUMN ADD END POST INSIDE OF STEEL COLUMN, UNO.

WALL STUD SCHEDULE

LEVEL	EXTERIOR WALLS			INTERIOR WOOD BEARING WALL			BEARING WALLTOP & BOTTOM PLATES	REMARKS
	SIZE	SPACING	SPECIES/ GRADE	SIZE	SPACING	SPECIES/ GRADE		
FDN TO ROOF	2X8	16" OC	SPF No.1/2	2X8	16" OC	SPF No.1/2	LSL 1.3E	

NOTES:
1. SEE TYPICAL WOOD BEARING WALL DETAIL.
2. ALL INTERIOR NON-LOAD BEARING WALLS TO BE 2x4/2x6 (PER ARCH), SPF STUD GRADE @ 24" OC MAX; MAXMIMUM 12'-0" HEIGHT FOR 2x4; MAXIMUM 19'-0" HEIGHT FOR 2x6.

WOOD HEADER SCHEDULE

MARK	SIZE	SPECIES / GRADE	JAMB STUDS	KING STUDS	REMARKS
H1	(3) 2x12	SPF No.1/No.2	(2) 2x	(2) 2x	
H2	(3) 1 3/4" x 11 7/8"	2.0E LVL 2600 F'b	(2) 2x	(3) 2x	
H3	(3) 1 3/4" x 18"	2.0E LVL 2600 F'b	(3) 2x	(4) 2x	

IBC 2021 TABLE 2304.10.2 FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
ROOF		
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	4-8d BOX (2-1/2" x 0.113"); OR 3-8d COMMON (2-1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3"14 GAGE STAPLES, 7/16" CROWN	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON (2-1/2" × 0.131") 2-3" × 0.131" NAILS 2-3" 14 GAGE STAPLES	EACH END, TOENAIL
	2-16 d COMMON (3-1/2" × 0.162") 3-3" × 0.131" NAILS 3-3" 14 GAGE STAPLES	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3-1/2" × 0.162") @ 6" O.C. 3" × 0.131" NAILS @ 6" O.C. 3" × 14 GAGE STAPLES @ 6" O.C.	FACE NAIL
2. CEILING JOISTS TO TOP PLATE	4-8d BOX (2-1/2" x 0.113"); OR 3-8d COMMON (2-1/2" × 0.131"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	EACH JOIST, TOENAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-16d COMMON (3-1/2" × 0.162"); OR 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3-10d COMMON (3" × 0.148"); OR 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	3-10 COMMON (3" × 0.148"); OR 3-16d BOX (3-1/2" × 0.135"); OR 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131 NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	2 TOENAILS ON ONE SIDE AND 1 TOENAIL ON OPPOSITE SIDE OF RAFTER OR TRUSSc
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON (3-1/2" × 0.162"); OR 3-16d BOX (3-1/2" x 0.135"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
	3-10d COMMON (3-1/2" × 0.148"); OR 4-16d OR (3-1/2" × 0.135"); or 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
WALL		
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3-1/2" × 0.162");	24" O.C. FACE NAIL
	10d BOX (3" × 0.128"); OR 3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3-1/2" × 0.162"); OR	16" O.C. FACE NAIL
	16d BOX (3-1/2" × 0.135"); OR 3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON (3-1/2" × 0.162"); OR	16" O.C. EACH EDGE FACE NAIL
	16d BOX (3-1/2" × 0.135")	12" O.C. EACH EDGE, FACE NAIL
11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2-1/2" × 0.131"); OR 4-10d BOX (3" × 0.128"); OR 5-8d BOX (2-1/2" x 0.113")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3-1/2" × 0.162"); OR	16" O.C. FACE NAIL
	10d BOX (3" × 0.128"); OR 3" × 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON (3-1/2" × 0.162"); OR 12-16d BOX (3-1/2" x 0.135"); OR 12-10d BOX (3" × 0.128"); OR 12-3" × 0.131" NAILS; OR 12-3" 14 GAGE STAPLES, 7/16" CROWN	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3-1/2" × 0.162"); OR	16" O.C. FACE NAIL
	16d BOX (3-1/2" × 0.135"); OR 3" × 0.131" NAILS; OR 3" 14 GAGE STAPLES, 7/16" CROWN	12" O.C. FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16d COMMON (3-1/2" × 0.162"); OR 3-16d BOX (3-1/2" × 0.135"); OR 4-3" × 0.131" NAILS; OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	16" O.C. FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	3-16d BOX (3-1/2" x 0.135"); OR 4-8d COMMON (2-1/2" × 0.131"); OR 4-10d BOX (3" × 0.128"); OR 4-3" × 0.131" NAILS; OR 4-8d BOX (2-1/2" x 0.113"); OR 4-3" 14 GAGE STAPLES, 7/16" CROWN	TOENAIL
	2-16d COMMON (3-1/2" × 0.162"); OR 3-16d BOX (3-1/2" x 0.135"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON (3-1/2" × 0.162"); OR 3-10d BOX (3" × 0.128"); OR 3-3" × 0.131" NAILS; OR 3-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
18. 1" BRACE TO EACH STUD AND PLATE	3-8d BOX (2-1/2" x 0.113"); OR 2-8d COMMON (2-1/2" × 0.131"); OR 2-10d BOX (3" × 0.128"); OR 2-3" × 0.131" NAILS; OR 2-3" 14 GAGE STAPLES, 7/16" CROWN	FACE NAIL
19. 1" x 6" SHEATHING TO EACH BEARING	3-8d BOX (2-1/2" x 0.113"); OR 2-8d COMMON (2-1/2" × 0.131"); OR 2-10d BOX (3" x 0.128"); OR 2-1-3/4" 16 GAGE STAPLES, 1" CROWN	FACE NAIL
20. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8d COMMON (2-1/2" × 0.131"); OR 3-8d BOX (2-1/2" x 0.113"); OR 3-10d BOX (3" × 0.128"); OR 3-1-3/4" 16 GAGE STAPLES, 1" CROWN	FACE NAIL
	WIDER THAN 1" x 8": 3-8d COMMON (2-1/2" × 0.131"); OR 4-8d BOX (2-1/2" x 0.113"); OR 3-10d BOX (3" × 0.128"); OR 4-1-3/4" 16 GAGE STAPLES, 1" CROWN	

IBC 2021 TABLE 2304.10.2 FASTENING SCHEDULE

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION	
WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING			
		EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
31. 19/32" – 3/4"	8d COMMON (2-1/2" × 0.131"); OR 6d DEFORMED (2" × 0.113")(SUBFLOOR AND WALL)	6	12
	8d COMMON OR DEFORMED (2-1/2" × 0.131" x 0.281" HEAD) (ROOF) OR RSRS-01 (2-3/8" × 0.113") NAIL (ROOF)	6e	6e
	2-3/8" × 0.113" x 0.266" HEAD NAIL; OR 2" 16 GAGE STAPLE, 7/16" CROWN	4	8
OTHER EXTERIOR WALL SHEATHING			
33. 1/2" FIBERBOARD SHEATHINGb	1-1/2" X 0.120" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER); OR 1-1/4" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6
34. 25/32" FIBERBOARD SHEATHINGb	1-3/4" X 0.120" GALVANIZED ROOFING NAIL (7/16" DIAMETER HEAD); OR 1-1/2" 16 GAGE STAPLE WITH 7/16" OR 1" CROWN	3	6

a. NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.

b. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).

c. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

d. RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.

e. TABULATED FASTENER REQUIREMENTS APPLY WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 140 MPH. FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE-END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 130 MPH IN EXPOSURE B OR GREATER THAN 110 MPH IN EXPOSURE C. SPACING EXCEEDING 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS SHALL BE PERMITTED WHERE THE FATENING IS DESIGNED PER THE AWC NDS.

f. FASTENING IS ONLY PERMITTED WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN OR EQUAL TO 110 MPH.

g. NAILS AND STAPLES ARE CARBON STEEL MEETING THE SPECIFICATIONS OF ASTM F1667. CONNECTIONS USING NAILS AND STAPLES OF OTHER MATERIALS, SUCH AS STAINLESS STEEL, SHALL BE DESIGNED BY ACCEPTABLE ENGINEERING PRACTICES OR APPROVED UNDER SECTION 104.11.

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FOR CONSTRUCTION

La-Z-Boy
VALLEY VIEW MALL, LA CROSSE, WI 54601

ISSUED FOR:
fCONST. SET 10.16.2025

SHEET TITLE:
STRUCTURAL SCHEDULES

STORE NAME:
LA-Z-BOY LA CROSSE

CORE4 engineering
N70 W5185 Columbia Road
Cedarburg, WI 53012 | 262.236.9372
C4E Project #: 25174

SHEET NO.
S0.3

BUILDING SHELL CONSTRUCTION SET

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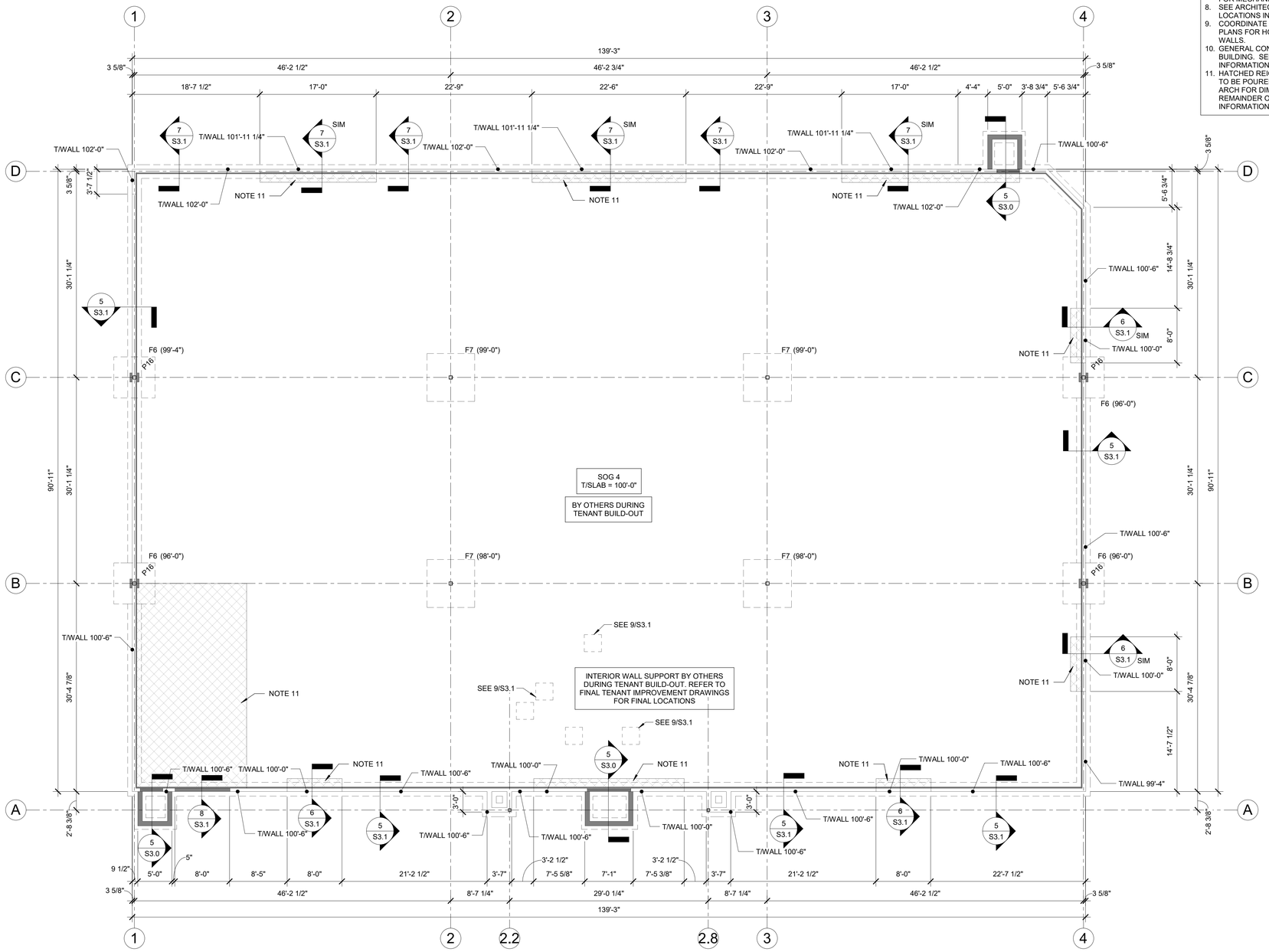
FOUNDATION PLAN NOTES:

1. SEE SHEET S001 FOR STRUCTURAL GENERAL NOTES AND S002 FOR STRUCTURAL SCHEDULES.
2. SEE SHEET S300 FOR FOUNDATION WALL CONSTRUCTION JOINTS AND TYPICAL REINFORCING DETAILS.
3. TOP OF EXTERIOR FOOTING ELEVATION = 96'-0" UNO.
4. TOP OF INTERIOR FOOTING ELEVATION = 99'-0" UNO.
5. TOP OF PIER ELEVATION = 99'-4" UNO.
6. TOP OF FOUNDATION WALL ELEVATION = 100'-6" UNO.
7. SEE MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS REQUIRED FOR MECHANICAL EQUIPMENT.
8. SEE ARCHITECTURAL DRAWINGS FOR DOOR OPENING SIZES AND LOCATIONS IN WALLS.
9. COORDINATE WITH ARCHITECTURAL DRAWINGS AND FRAMING PLANS FOR HOLDDOWN REINFORCING LOCATIONS IN FOUNDATION WALLS.
10. GENERAL CONTRACTOR TO PROVIDE ALL SHORING REQUIRED FOR BUILDING. SEE GENERAL REQUIREMENTS NOTE 1 FOR ADDITIONAL INFORMATION.
11. HATCHED REIGON INDICATES EXTENTS OF SLAB-ON-GRADE THAT IS TO BE POURED PRIOR TO WINDOW/DOOR INSTALLATION. REFER TO ARCH FOR DIMENSIONS. IF EXTENTS ARE POURED PRIOR TO THE REMAINDER OF THE SLAB, REFER TO DETAIL 10/S3.1 FOR MORE INFORMATION.



1 S1.0 FOUNDATION PLAN

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

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ISSUED FOR:
CONST. SET 10.16.2025

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FOUNDATION PLAN

STORE NAME:
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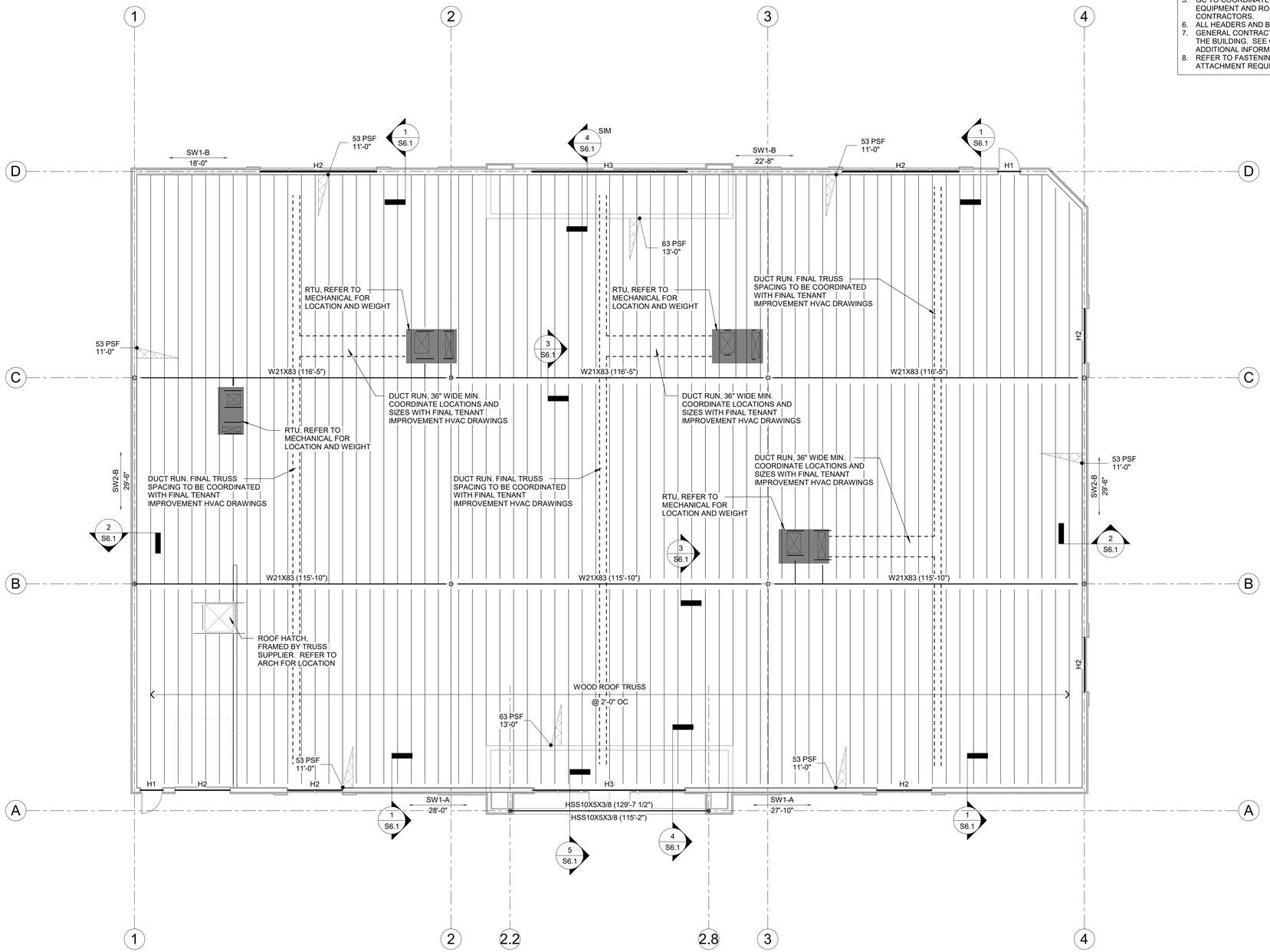
ROOF PLAN NOTES:

1. SEE SHEET S0.1 FOR STRUCTURAL GENERAL NOTES AND S0.21 FOR STRUCTURAL SCHEDULES.
2. SEE SHEET S5.0 FOR TYPICAL STEEL SECTIONS AND DETAILS.
3. SEE SHEET S6.0 FOR TYPICAL WOOD SECTIONS AND DETAILS.
4. SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, HEEL HEIGHTS, TRUSS BEARING ELEVATIONS AND ROOF SLOPES.
5. GC TO COORDINATE FINAL SIZE AND LOCATION OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS.
6. ALL HEADERS AND BEAMS TO BE DROPPED UNO.
7. GENERAL CONTRACTOR TO PROVIDE ALL SHORING REQUIRED FOR THE BUILDING. SEE GENERAL REQUIREMENTS NOTE 1 FOR ADDITIONAL INFORMATION.
8. REFER TO FASTENING SCHEDULE ON S0.21 FOR ROOF SHEATHING ATTACHMENT REQUIREMENTS.



ROOF FRAMING PLAN

1 / S1.1 SCALE: 1/8" = 1'-0"

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ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ROOF FRAMING PLAN

STORE NAME:
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SHEET NO.
S1.1

BUILDING SHELL CONSTRUCTION SET

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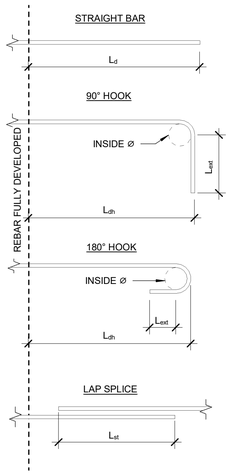
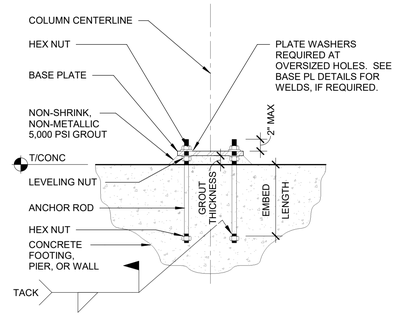
BAR SIZE		#3	#4	#5	#6	#7	#8	#9	#10	#11
INSIDE BEND ⌀		2.25"	3	3.75	4.5	5.25	6	9.0	10.2	11.3
L_{ext} - 90° HOOK		4.5"	6	7.5	9	10.5	12	13.5	15.2	16.8
L_{ext} - 180° HOOK		2.5"	2.5	2.5	3	3.5	4	4.5	5.1	5.6
3000 PSI	L_d	16.4	21.9	27.4	32.9	47.9	54.8	1.8	69.6	77.2
	L_{dh}	8.2	11.0	13.7	16.4	19.2	21.9	24.7	27.8	30.9
	L_{st} TOP BARS	28	38	47	56	81	93	105	118	131
	L_{st} OTHERS	22	29	36	43	63	72	81	91	101
4000 & 4500 PSI	L_d	14.2	19.0	23.7	28.5	41.5	47.4	53.5	60.2	66.9
	L_{dh}	7.1	9.5	11.9	14.2	16.6	19.0	21.4	24.1	26.8
	L_{st} TOP BARS	25	33	41	49	71	81	91	102	114
	L_{st} OTHERS	19	25	31	37	54	62	70	79	87
5000 PSI	L_d	12.7	17.0	21.2	25.5	37.1	42.4	47.9	53.9	59.8
	L_{dh}	6.4	8.5	10.6	12.7	14.9	17.0	19.1	21.6	23.9
	L_{st} TOP BARS	22	29	36	43	63	72	81	92	102
	L_{st} OTHERS	17	23	28	34	49	56	63	70	78

NOTE:
1. TABULATED VALUED ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
2. TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-14. LENGTHS ARE IN INCHES.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
4. SPLICE COVERS IN THIS SCHEDULE ARE BASED ON CLEAR COVER AT LEAST 1.0 BAR ⌀ AND CLEAR SPACING AT LEAST 2.0 BAR ⌀.



1 S3.0 REINFORCING STEEL TYPICAL DEVELOPMENT LENGTHS & LAP SPLICES

SCALE: NTS



ROD Ø (IN.)	WASHER SIZE (IN.)	WASHER THICKNESS (IN.)	MAXIMUM HOLE Ø (IN.)	EMBED LENGTH (IN.)	GROUT THICKNESS (IN.)
3/4	2 x 2	1/4	1 5/16	8	1 1/2
7/8	2 1/2 x 2 1/2	5/16	1 9/16	12	1 1/2
1	3 x 3	3/8	1 13/16	14	1 1/2
1 1/4	3 x 3	1/2	2 1/16	16	2 1/2
1 1/2	3 1/2 x 3 1/2	1/2	2 5/16	18	2 1/2
1 3/4	4 x 4	5/8	2 3/4	20	2 1/2
2	5 x 5	3/4	3 1/4	22	3 1/2
2 1/2	5 1/2 x 5 1/2	7/8	3 1/4	24	3 1/2

2 S3.0 TYPICAL CAST-IN-PLACE ANCHOR

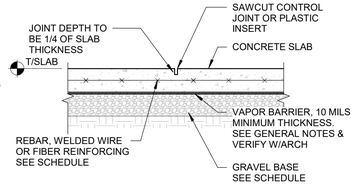
SCALE: NTS

SECTION 1: SLAB-ON-GRADE NOTES
1. SLAB-ON-GRADE CONSTRUCTION SHOULD CONFORM WITH THE RECOMMENDATIONS AND REQUIREMENTS SET FORTH IN THE LATEST RELEASE OF ACI 302 GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
2. REFER TO GEOTECHNICAL REPORT AND/OR ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION, MUD SLAB AND/OR VAPOR RETARDER REQUIREMENTS.
3. THE SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
4. REFER TO PLANS FOR SLAB THICKNESS ("T") AND REINFORCEMENT (WWF OR REINFORCEMENT BARS). REFER TO SPECIFICATIONS FOR FIBER REINFORCEMENT TO BE INCORPORATED IN CONCRETE MIX, IF ANY. WHERE PRESENT, REINFORCING BARS SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
5. PROVIDE (2) #5 x 4'-0" AT ALL RE-ENTRANT CORNERS AND OTHER SIMILAR SLAB DISCONTINUITIES.
6. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMNS SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36 x ("T") UNO. THE RESULTING PANELS SHOULD BE APPROXIMATELY SQUARE.

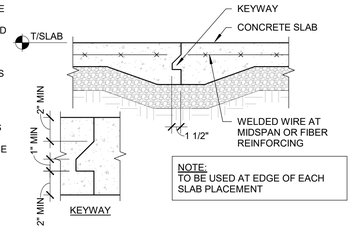
SECTION 2: CONSTRUCTION JOINT NOTES
1. BREAK THE BOND BETWEEN NEW AND PREVIOUSLY PLACES SLABS BY SPRAYING OR BY PAINTING THE EXPOSED SIDE OF THE JOINT WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.

SECTION 3: CONTROL JOINT NOTES
1. FOR SAW-CUT CONTROL JOINTS, MAKE THE SAW-CUT AS SOON AS THE SLAB IS ABLE TO SUPPORT THE WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO THE FINISHED SURFACE OF THE SLAB, BUT WITHIN 24 HOURS.
2. DEPTH OF SAW-CUT SHOULD BE 1 1/4" IF PRODUCED USING THE EARLY ENTRY DRY-CUT PROCESS AND "T"/4 (1" MIN) IF PRODUCED USING THE CONVENTIONAL WET-CUT PROCESS.
3. VERIFY WITH ARCHITECT FOR EPOXY RESIN OR ELASTOMERIC SEALANT REQUIREMENTS TO FILL CONTROL JOINTS.

SECTION 4: FORMED CONTROL JOINT OPTION NOTES
1. FORM CONTROL JOINTS BY INSERTING A PRE-MOLDED STRIP INTO THE FRESH CONCRETE UNTIL THE TOP SURFACE OF THE STRIP IS FLUSH WITH THE TOP SURFACE OF THE SLAB.
2. TOOL THE SLAB EDGES ROUND ON EACH SIDE OF THE INSERT, 1/8" MAX RADIUS.
3. AFTER THE CONCRETE HAS CURED, REMOVE THE INSERTS AND CLEAN THE GROOVE OF LOOSE DEBRIS.



SLAB CONTROL JOINT

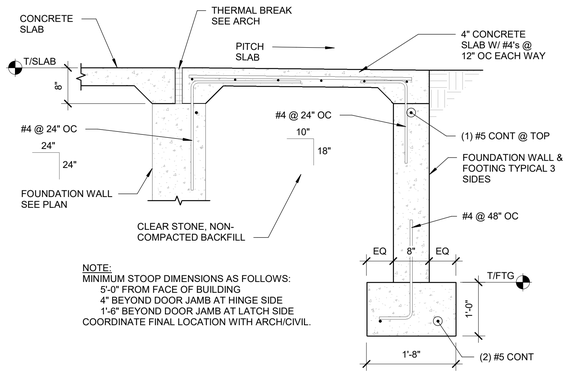


NOTE:
TO BE USED AT EDGE OF EACH SLAB PLACEMENT

SLAB CONSTRUCTION JOINT

3 S3.0 TYPICAL SLAB JOINTS

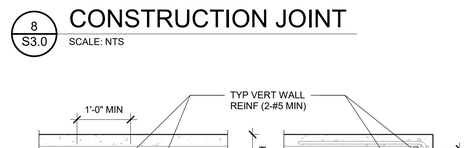
SCALE: NTS



NOTE:
MINIMUM STOOP DIMENSIONS AS FOLLOWS:
5'-0" FROM FACE OF BUILDING
4" BEYOND DOOR JAMB AT HINGE SIDE
1'-6" BEYOND DOOR JAMB AT LATCH SIDE
COORDINATE FINAL LOCATION WITH ARCH/CIVIL.

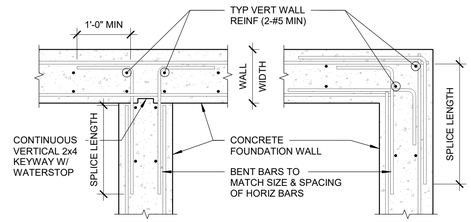
5 S3.0 TYPICAL STOOP SECTION

SCALE: NTS



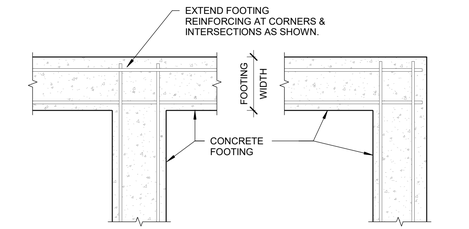
8 S3.0 TYPICAL WALL CONSTRUCTION JOINT

SCALE: NTS



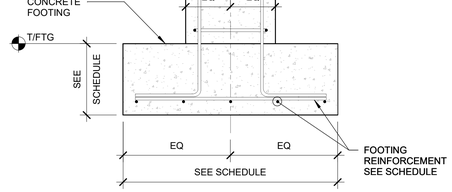
9 S3.0 TYPICAL WALL REINFORCING

SCALE: NTS



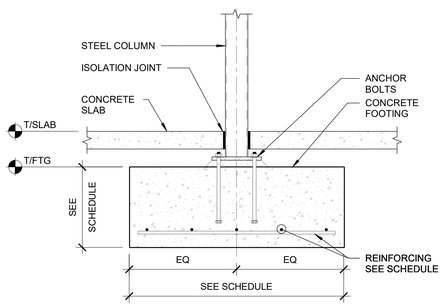
10 S3.0 TYPICAL FOOTING REINFORCING

SCALE: NTS



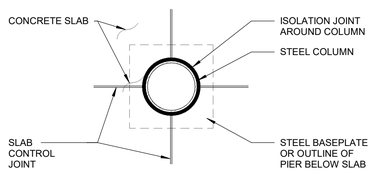
4 S3.0 TYPICAL CONCRETE PIER DETAIL

SCALE: NTS

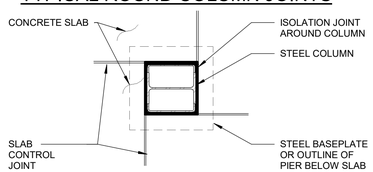


6 S3.0 TYPICAL COLUMN BEARING

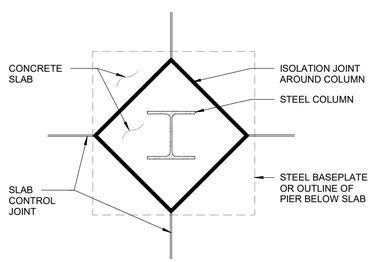
SCALE: NTS



TYPICAL ROUND COLUMN JOINTS



TYPICAL SQUARE COLUMN JOINTS



TYPICAL DIAMOND COLUMN JOINTS

7 S3.0 TYPICAL COLUMN JOINTS

SCALE: NTS

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SHEET TITLE:
CONCRETE SECTIONS & DETAILS

STORE NAME:
LA-Z-BOY LA CROSSE

CORE4 engineering
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C4E Project #: 25174

SHEET NO.
S3.0

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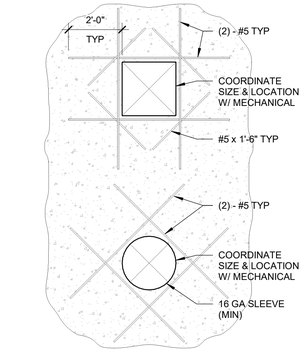
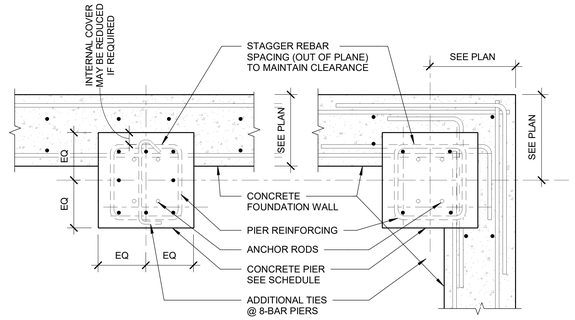


NOTES:

1. APPLIES TO 24" (MAX) OPENINGS THROUGH FOUNDATION WALL.
2. TOP OF OPENING TO BE 24" (MIN) FROM TOP OF WALL.
3. REINFORCING LAYERS TO MATCH FOUNDATION WALL.
4. USE 90° STANDARD HOOK AT CORNERS AND ENDS OF WALL.

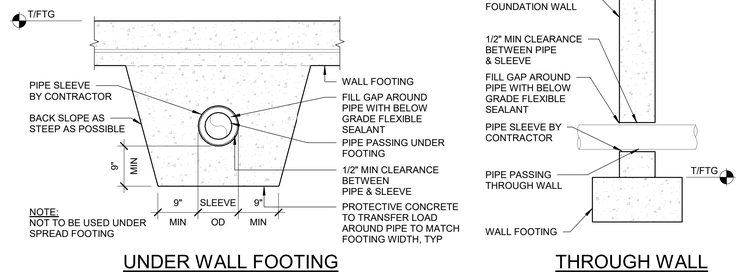
1 S3.1 TYPICAL CONCRETE WALL PENETRATION

SCALE: 3/8" = 1'-0"



2 S3.1 TYPICAL PIER AT WALL AND CORNER

SCALE: 1" = 1'-0"

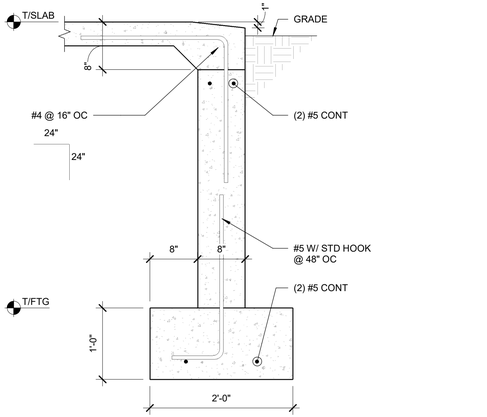


UNDER WALL FOOTING

THROUGH WALL

3 S3.1 TYPICAL PIPE CROSSING FOUNDATION WALL

SCALE: 3/4" = 1'-0"



NOTES:

1. CONTRACTOR'S OPTION: ELIMINATE STRUCTURAL FILL BY LOWERING DESIGNED FOOTING ELEVATION SO THAT FOOTING RESTS DIRECTLY ON SUITABLE BEARING SUBGRADE. PROVIDE LEAN CONCRETE (f'c = 500 PSI MIN) UNDER THE FOOTING AS SHOWN HATCHED ABOVE, OR INCREASE FOOTING THICKNESS TO REACH SUITABLE BEARING SUBGRADE.
2. THIS DETAIL APPLIES ONLY AT THOSE LOCATIONS WHERE GEOTECH ENGINEER DEEMS SOILS AT DESIGNED FOOTING ELEVATIONS ARE INADEQUATE FOR FOOTING SUPPORT. WHERE THIS WORK IS REQUIRED, CONTRACTOR WILL BE COMPENSATED ON A PRE-ESTABLISHED UNIT COST AGREED UPON BY THE CONTRACTOR, ARCHITECT/ENGINEER, AND OWNER.

4 S3.1 TYPICAL OVER EXCAVATION DETAIL

SCALE: 3/4" = 1'-0"

5 S3.1 TYPICAL FDN WALL

SCALE: 1" = 1'-0"

6 S3.1 SECTION

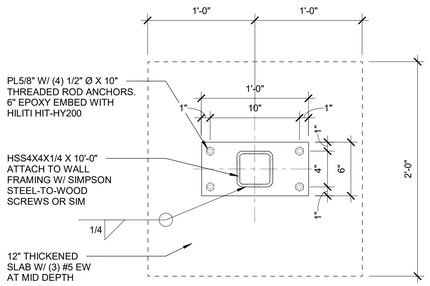
SCALE: 1" = 1'-0"

7 S3.1 SECTION

SCALE: 1" = 1'-0"

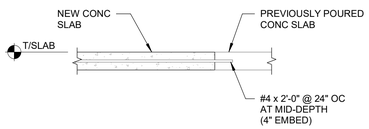
8 S3.1 SECTION

SCALE: 1" = 1'-0"



9 S3.1 WALL POST BASE

SCALE: 1 1/2" = 1'-0"



10 S3.1 SECTION

SCALE: 3/4" = 1'-0"

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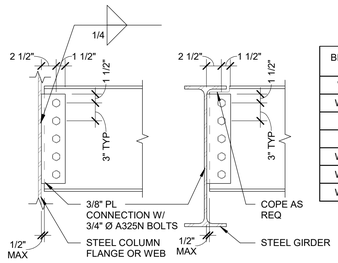


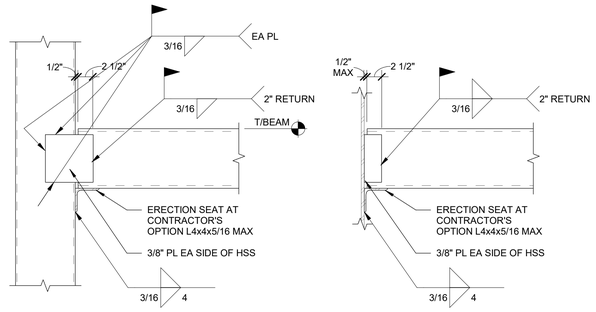
BEAM SIZE	# OF BOLTS PER ROW
W8,W10	2
W12,W14	3
W16	4
W18	5
W21,W24	6
W27,W30	7
W33,W36	8

NOTES:

1. ALL FRAMING CONNECTIONS TO CONFORM TO SCHEDULE ABOVE UNLESS DETAILED OTHERWISE ON PLANS.
2. Leh = 1 1/2", Lev = 1 1/4" MINIMUM ANGLES AND BEAM.
3. PROVIDE STANDARD OR SHORT-SLOTTED HOLES IN PLATE.
4. # OF BOLTS PER ROW APPLIES FOR W, S OR C STEEL SHAPES.

1 S5.0 SINGLE PLATE BEAM TO BEAM CONNECTION

SCALE: NTS



2 S5.0 TYPICAL HSS BEAM CONNECTION

SCALE: NTS

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BUILDING SHELL CONSTRUCTION SET

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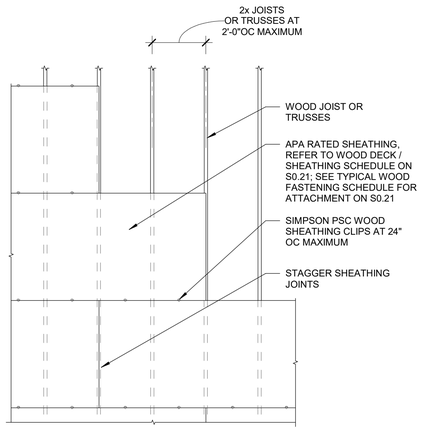
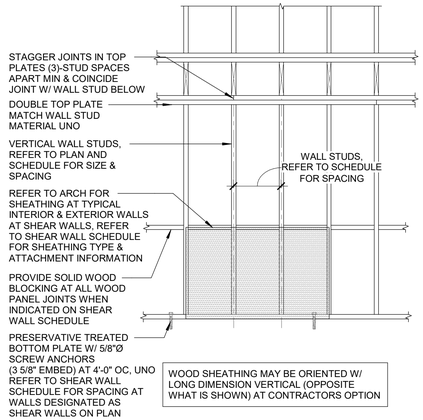


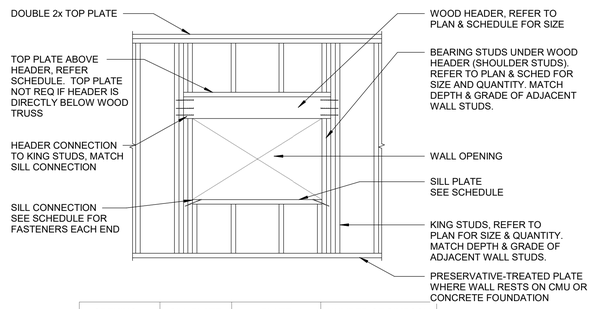
1 S6.0 TYPICAL WOOD ROOF SHEATHING ATTACHMENT

SCALE: NTS



2 S6.0 TYPICAL WOOD BEARING WALL

SCALE: NTS

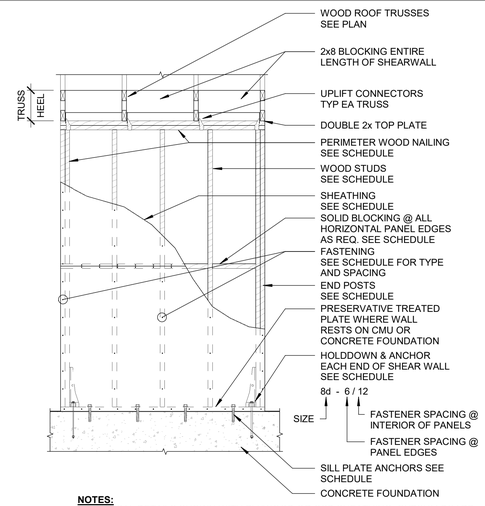


OPENING WIDTH	SILL PLATE SIZE	PLATE GRADE	NUMBER OF SIMPSON SDWC15600 SCREWS
0'-0" TO 4'-0"	2x6	SPF STUD	-
4'-0" TO 8'-0"	2x6	SPF No.1/No.2	2
8'-0" TO 11'-0"	1 3/4"x5 1/2"	2.0E LVL	3
11'-0" TO 14'-0"	(2) 1 3/4"x5 1/2"	2.0E LVL	3

NOTE:
USE SIMPSON HH HEADER HANGER FOR HEADER CONNECTION TO WOOD COLUMNS.

3 S6.0 TYPICAL OPENING FRAMING IN A WOOD STUD WALL

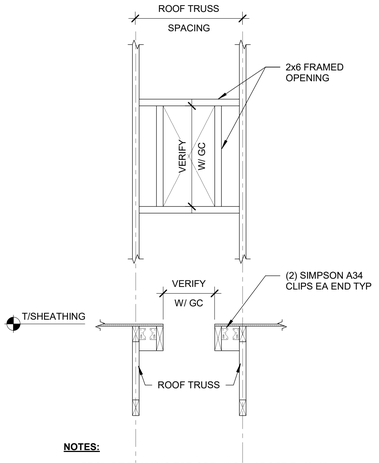
SCALE: NTS



NOTES:
1. TYPICAL DETAILS SHOWN WITH PLYWOOD OR OSB SHEATHING. GYPSUM BOARD SHEAR WALLS SIMILAR, SEE SCHEDULE FOR FASTENERS AND SPACING.
2. CONTRACTOR OPTION: WOOD SHEATHING MAY BE ORIENTED W/ LONG DIMENSION VERTICAL-OPPOSITE WHAT IS SHOWN ON DETAIL.

4 S6.0 SINGLE STORY WOOD SHEAR WALL

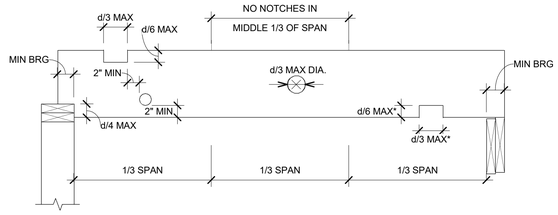
SCALE: NTS



NOTES:
1. PROVIDE FRAMING FOR OPENINGS LARGER THAN 8" X 8", 8" Ø OR SUPPORTING EQUIPMENT IN EXCESS OF 50 LBS.
2. GENERAL CONTRACTOR TO COORDINATE FINAL SIZE AND LOCATIONS OF MECHANICAL AND PLUMBING OPENINGS.

5 S6.0 TYPICAL ROOF OPENING

SCALE: NTS



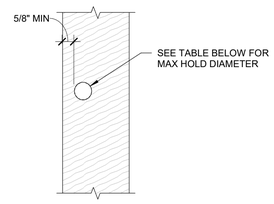
*NOTE: IF b ≥ 3-1/2", THEN NO NOTCHES ON TENSION SIDE EXCEPT AT ENDS. b = MEMBER THICKNESS.

JOIST SIZE	MAXIMUM NOTCH LENGTH	MAXIMUM NOTCH DEPTH	MAXIMUM END NOTCH DEPTH	MAXIMUM HOLE DEPTH	MINIMUM (1) BEARING LENGTH	
2x6	1-13/16"	7/8"	1-3/8"	1-13/16"	1-1/2"	3"
2x8	2-3/8"	1-3/16"	1-13/16"	2-3/8"	1-1/2"	3"
2x10	3-1/16"	1-1/2"	2-5/16"	3-1/16"	1-1/2"	3"
2x12	3-3/4"	1-7/8"	2-13/16"	3-3/4"	1-1/2"	3"

NOTE:
1. MINIMUM BEARING: 1-1/2" ON WOOD OR STEEL: 3" BEARING ON MASONRY.

6 S6.0 ALLOWABLE HOLES & NOTCHES IN SAWN LUMBER

SCALE: NTS

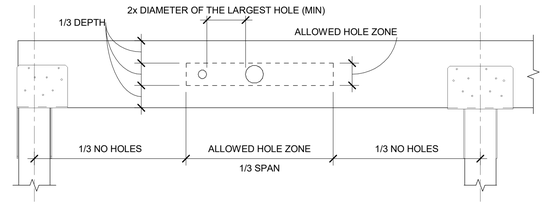


STUD SIZE	WALL USAGE	MAX HOLE DIAMETER
2x4	NON-LOAD BEARING	2.1" (2-3/32")
2x4	LOAD BEARING	1.4" (1-13/32")
2x6	NON-LOAD BEARING	3.3" (3-9/32")
2x6	LOAD BEARING	2.2" (2-3/16")

NOTES:
1. MAX HOLE SIZES PER IBC SECTION 2308.9.11.
2. EDGE OF HOLE SHALL NOT BE LESS THAN 5/8" FROM EDGE OF STUD.

7 S6.0 ALLOWABLE HOLES IN WALL STUDS

SCALE: NTS



NOTES:
1. THE ALLOWED HOLE ZONE IS SUITABLE ONLY FOR UNIFORMLY LOADED BEAMS USING MAXIMUM LOADS FOR ANY TABLES LISTED IN THIS DETAIL. FOR OTHER LOAD CONDITIONS OR HOLE CONFIGURATIONS, PLEASE CONTACT STRUCTURAL ENGINEER.
2. RECTANGULAR HOLES ARE NOT ALLOWED.
3. HOLES IN CANTILEVERS REQUIRE ADDITIONAL ANALYSIS.
4. IF LARGER HOLES ARE REQUIRED CONTACT STRUCTURAL ENGINEER FOR EVALUATION.
5. DO NOT CUT, NOTCH OR DRILL HOLES IN LVL EXCEPT AS INDICATED IN TABLE.

BEAM DEPTH	MAXIMUM ROUND HOLE SIZE
5-1/2"	1-3/4"
7-1/4" TO 18"	2"

8 S6.0 ALLOWABLE HOLES IN LVL & PSL BEAMS

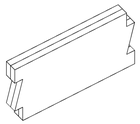
SCALE: NTS

STRUCTURAL SCREWS OPTIONS

1-3/4" WIDTH PIECES:
1. FOR BEAMS 12" AND LESS, MINIMUM OF (2) ROWS 12d (3-1/2") COMMON NAILS @ 12" OC OR (2) ROWS 1/4" Ø X 3-1/2" WOOD SCREWS @ 16" OC.
2. FOR BEAMS 14" AND DEEPER, MINIMUM OF (3) ROWS 12d (3-1/4") COMMON NAILS @ 12" OC OR (3) ROWS 1/4" Ø X 3-1/4" WOOD SCREWS @ 16" OC.
3. NAILED CONNECTIONS REQUIRE AN ADDITIONAL ROW OF NAILS WHEN NAIL SIZE IS SMALLER THAN SPECIFIED ABOVE (MINIMUM 0.128"x3").
4. LOAD MUST BE APPLIED EVENLY ACROSS ENTIRE BEAM WIDTH. OTHERWISE, USE CONNECTIONS FOR SIDE-LOADED BEAMS.

3-1/2" WIDTH PIECES:
1. MINIMUM OF (2) ROWS OF 1/2"ø BOLTS @ 24" OC, STAGGERED. FOR ALL OTHER TWO PIECE, CONTINUOUS HEADERS, PROVIDE 16d COMMON NAILS @ 16" OC ALONG EACH EDGE, UNLESS NOTED OTHERWISE.

NOTE:
1. MULTIPLE PIECES OF LVL OR LSL CAN BE NAILED OR BOLTED TOGETHER TO FORM A HEADER OR BEAM OF THE REQUIRED SIZE, UP TO A MAXIMUM WIDTH OF 7".



9 S6.0 MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

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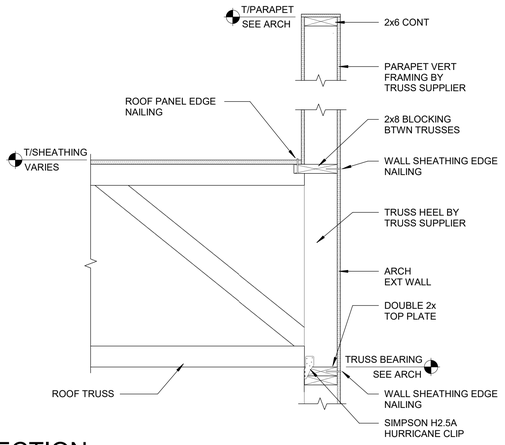
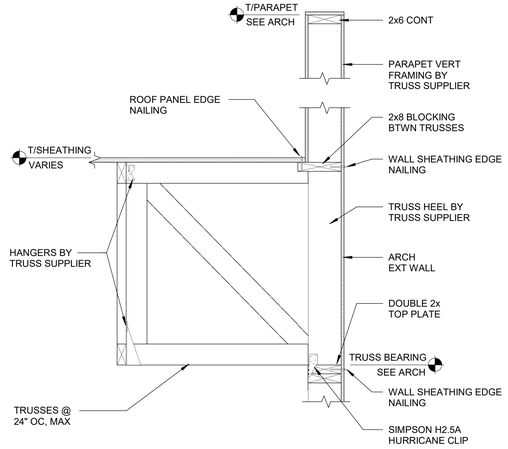


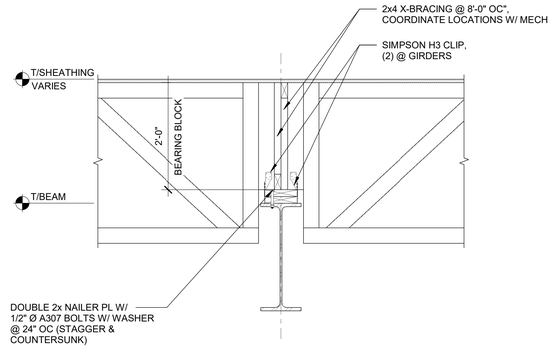
1 S6.1 SECTION

SCALE: NTS



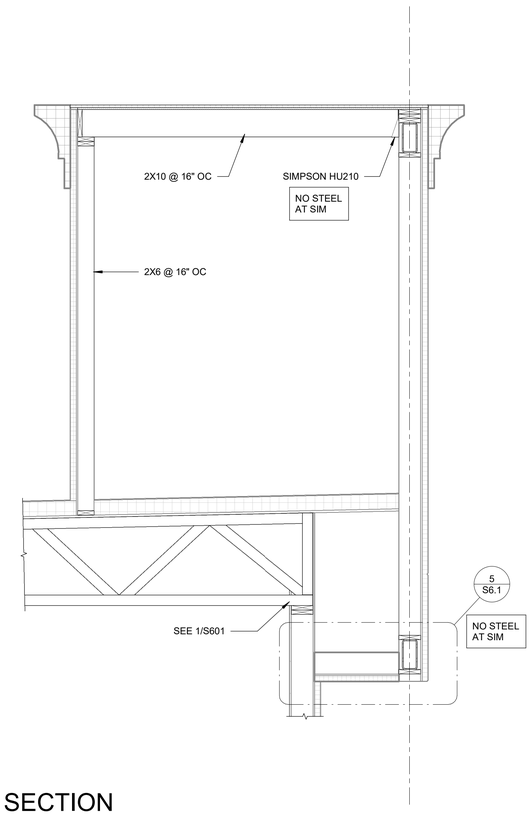
2 S6.1 SECTION

SCALE: NTS



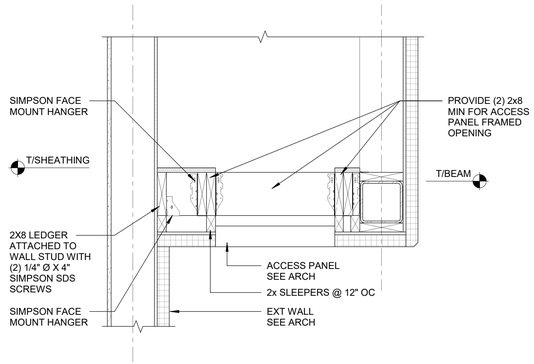
3 S6.1 SECTION

SCALE: NTS



4 S6.1 SECTION

SCALE: 1/2" = 1'-0"



5 S6.1 TYPICAL ACCESS PANEL FRAMING DETAIL

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ISSUED FOR:
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SHEET TITLE:
WOOD ROOF SECTIONS & DETAILS

STORE NAME:
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C4E Project #: 25174

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ADA COMPLIANCE

1. VERIFY FIXTURES THAT ARE INTENDED FOR HANDICAP USE WITH CURRENT ARCHITECTURAL DRAWINGS.
2. PLUMBING FIXTURES DESIGNATED FOR HANDICAP USE SHALL COMPLY WITH ADA AND ALL STATE, CITY, AND LOCAL REQUIREMENTS PERTAINING TO HANDICAP ACCESSIBILITY.
3. FIXTURE INSTALLATION SHALL COMPLY WITH ADA AND ANY STATE, CITY, AND LOCAL REQUIRMENTS PERTAINING TO HANDICAP ACCESSIBILITY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ADA AND ALL STATE, CITY, AND LOCAL REQUIREMENTS PERTAINING TO PLUMBING FIXTURES AND PLUMBING FIXTURE INSTALLATION FOR USE BY THE HANDICAPPED.

WATER HAMMER ARRESTER SCHEDULE

CHART A - FOR GROUPED FIXTURES		CHART B - FOR LONG PIPE RUNS						
P.D.I SIZE	FIXTURE UNITS	P.D.I WATER HAMMER ARRESTERS						
		LENGTH OF PIPE	NOMINAL PIPE DIAMETER					
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
A	1-11	25'	A	A	B	C	D	E
B	12-32	50'	A	B	C	D	E	F
C	33-60	75'	B	C	D	AE	F	EF
D	61-113	100'	C	D	E	F	CF	FF
E	114-154	125'	C	D	F	AF	EF	EFF
F	155-310	150'	D	E	F	DF	FF	FFF

NOTES:
1. WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD PDI-WH201.

ROOF DRAIN PERFORMANCE TABLE

ROOF DRAIN SIZE	MAX ROOF DRAIN FLOOW RATE
2" Ø	95 GPM
3" Ø	195 GPM
4" Ø	305 GPM
6" Ø	380 GPM
8" Ø	405 GPM

PLUMBING ABBREVIATIONS

ABBREVIATION	DEFINITION
A/C	ABOVE CEILING
AAV	AIR ADMITTANCE VALVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AP	ACCESS PANEL
B/F	BELOW FLOOR
B/G	BELOW GRADE
BT	BATHTUB
CA	COMPRESSED AIR
CL	CENTER LINE
CLG	CEILING
CO	CLEAN OUT
CW	COLD WATER
DF	DRINKING FOUNTAIN
DN	DOWN
DPV	DRY PIPE VALVE
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FG	GENERATOR FUEL PIPING
FND	FOUNDATION DRAINAGE PIPING
FS	FLOOR SINK
G	GAS (NATURAL UNO)
GCO	GRADE CLEANOUT
GI	GREASE INTERCEPTOR
GT	GREASE TRAP
GV	GATE VALVE
GW	GREASE WASTE
HB	HOSE BIBB
HD	HUB DRAIN
HW	HOT WATER
HWR	HOT WATER RETURN
INV EL	INVERT ELEVATION
IW	INDIRECT WASTE
LV	LAVATORY
N/A	NOT APPLICABLE
NFRH	NON FREEZE WALL HYDRANT
NFWH	NON FREEZE ROOF HYDRANT
NTS	NOT TO SCALE
O/H	OVERHEAD
OD	OVERFLOW DRAINAGE
ORD	OVERFLOW ROOF DRAIN
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
SAN	SANITARY
SH	SHOWER
SK	SINK
SS	SANITARY SEWER
ST	STORM
TP	TRAP PRIMER
TYP.	TYPICAL
U/C	UNDER COUNTER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT

NOTE: THESE ARE STANDARD ABBREVIATIONS. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

SHEET LIST

SHEET NUMBER	SHEET NAME
P-0.1	PLUMBING GENERAL
P-0.2	PLUMBING SPECIFICATIONS
P-1.1	PLUMBING PLAN
P-2.1	PLUMBING ROOF PLAN
P-3.1	PLUMBING RISERS

PLUMBING LEGEND

SYMBOL	DESCRIPTION
1" CW	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
1" CW	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	DOMESTIC HOT WATER RETURN (HWR)
	VENT (V)
	SANITARY / WASTE (W)
	STORM (ST)
	OVERFLOW (OD)
	NATURAL GAS (G)
	GREASE WASTE (GW)
	RISER UP (ELBOW)
	RISER DOWN (ELBOW)
	FIXTURE TRAP
	RISE OR DROP
	BRANCH - BOTTOM CONNECTION
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	PIPE CAP
	CLEANOUT
	VALVE
	BALANCING VALVE (CIRCUIT SETTER)
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	STRAINER
	EXISTING PIPING
	PIPING BELOW SLAB/FLOOR
	1/4" SLOPED PIPING
	1/16" SLOPED PIPING
	PIPING TO BE DEMOLISHED
M	REMOTE READ SUBMETER (WATER OR GAS)
EI = 100.00'	APPROXIMATE INVERT ELEVATION

NOTE: THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

GENERAL SYMBOLS

- CONNECT TO EXISTING
- NORTH ARROW
- DRAWING REVISION TAG
- KEYED NOTE
- PLAN OR DETAIL NUMBER (1 / S-1)
- SHEET NUMBER

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MAKE/MODEL	FIXTURE SUPPORT	MIN. CONNECTION SIZE			MINIMUM VENT SIZE	REMARKS
				CW	HW	WASTE		
FD-1	FLOOR DRAIN	MIFAB F1103-C-TS	FLOOR	---	---	4"	SEE PLANS	"TOP SET" FINISHED FLOOR DRAIN WITH 6" DIAM. ADJUSTABLE NICKEL BRONZE STRAINER. PROVIDE WITH PLASTIC COVER AND TRAP GUARD.

PLUMBING GENERAL NOTES

1. COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC, PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.,
2. COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
3. ALL PIPING SHALL BE CONCEALED INSIDE WALLS, BELOW FLOORS OR ABOVE CEILINGS UNLESS INDICATED OTHERWISE. REMOVE ALL EXISTING WATER PIPING NOT IN USE.
4. ALL PIPING SHALL BE SLOPED AS PER AT THE MINIMUM GRADE REQUIRED BY CODE (UNLESS NOTED OTHERWISE) FOR EACH PARTICULAR PIPE SIZE. ALL SANITARY/WASTE PIPING SHALL BE SLOPED AT 1/8" PER FOOT AND ALL GREASE WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT UNLESS NOTED OTHERWISE.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL FIXTURES MUST BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY ARCHITECT.
6. DO NOT RUN PLUMBING PIPING THROUGH ELECTRICAL/COMPUTER ROOMS OR DIRECTLY ABOVE ELECTRICAL PANELS.
7. INSTALL WATER HAMMER ARRESTORS (PDI'S) ON DOMESTIC COLD & HOT WATER LINES AS INDICATED ON THE DRAWINGS, IN ACCORDANCE WITH THE LOCAL PLUMBING CODE, AND/OR STANDARD PDI-WH201. ARRESTORS SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
8. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL COORDINATION AND INFORMATION.
9. ALL FIXTURES SHALL BE FURNISHED WITH QUARTER-TURN STOP VALVES. VALVES MAY BE IN SUPPLY PIPES OR INTEGRAL WITH SUPPLY FITTINGS.
10. PLUMBING CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL COSTS INVOLVED.
11. PROVIDE NEW PRESSURE REGULATOR (PRV) WITH INTEGRAL STRAINER ON ALL NEW INCOMING WATER SERVICES. PRESSURE REGULATOR SHALL BE FACTORY SET TO SUPPLY 50 PSI TO BUILDING. FOR INCOMING WATER SERVICES 2 INCHES AND LARGER IN SIZE, A PRESSURE REGULATOR STATION SHALL BE PROVIDED WITH TWO PARALLEL PRESSURE REGULATORS WITH INTEGRAL STRAINERS, PRESSURE GAUGES AND SHUT OFF VALVES ON EITHER SIDE OF EACH, AND A FULL SIZE BYPASS WITH NORMALLY CLOSED BALL VALVE. WATER SERVICES LARGER THAN 4" SHALL HAVE A THIRD PARALLEL LINE WITH FULL SIZE REGULATOR WITH SAME APPURTENANCES AS WELL. SEE DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS.
12. INSULATE SUPPLY PIPES, STOPS AND DRAIN AT EACH ADA SINK WITH FIRE RESISTANT MOLDED FOAM INSULATING DEVICE TRUEBRO ADA LAV GUARD.
13. MINIMUM FIXTURE CONNECTION SIZES SHALL BE MADE IN ACCORDANCE WITH THE PLUMBING FIXTURE SCHEDULE.
14. ALL EQUIPMENT, PIPING, APPURTENANCES SHALL BE PROTECTED FROM DEBRIS AND DAMAGE. SENSITIVE EQUIPMENT SHALL NOT BE DELIVERED TO THE JOB SITE UNTIL SUCH TIME AS IT IS TO BE INSTALLED. PIPING ENDS SHALL BE CLOSED BY TEMPORARY MEANS WHEN PORTIONS OF THE SYSTEM ARE NOT COMPLETE.
15. LOCATE ALL VALVES WHERE THEY ARE ACCESSIBLE FOR SERVICE AND USE. WHERE ACCESS PANELS ARE REQUIRED COORDINATE SELECTION AND LOCATION WITH ARCHITECT.
16. PROVIDE TRAP PRIMER AND CONNECTION FOR ANY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN NOT SUBJECT TO REGULAR FLOW.
17. ALL PIPES DROPPING AT COLUMNS SHALL BE INSTALLED WITHIN THE ENCLOSURE DETAILED ON THE ARCHITECTURAL DRAWINGS SUCH THAT THE DIMENSIONS OF THE ENCLOSURE ARE NOT ALTERED.
18. INSULATE ALL NEW HOT AND COLD WATER PIPING. SIZE PER SPECIFICATIONS.
19. ALL PENETRATIONS AT FLOORS AND RATED PARTIONS SHALL HAVE A UL CLASSIFIED FIRE STOP SYSTEM TESTED TO ASTM E814 AND UL 1479 BY UNDERWRITERS LABORATORIES. FIRE STOP SYSTEMS SHALL BE PROSET SYSTEMS, PENSIL FIRESTOP SYSTEMS OR 3M COMPANY.
20. ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
21. EXPOSED PIPING IN CONNECTION WITH PLUMBING FIXTURES SHALL BE CHROMIUM PLATED. WHERE PIPES PASS THROUGH WALLS, PROVIDE CHROMIUM PLATES ESCUTCHEONS AND FIRMLY SECURE IN PLACE.
22. PROVIDE APPROVED FLANGES FOR CONNECTIONS BETWEEN DRAINAGE PIPING AND FLOOR OUTLET PLUMBING FIXTURES.
23. DEFECTIVE WORK IF INSPECTION OR TESTS SHOW DEFECTS, SUCH DEFECTIVE WORK OR MATERIAL SHALL BE REPLACED AND INSPECTION AND TESTS SHALL BE REPEATED. ALL REPAIRS TO PIPING SHALL BE MADE WITH NEW MATERIAL. NO CAULKING OF SCREWED JOINTS OR HOLES WILL BE ACCEPTABLE.
24. CONTRACTOR TO SUBMIT ADDITIONAL SET OF GAS DRAWINGS TO HVAC PLANS REVIEWER. NOTE: SEE PLUMBING DRAWINGS FOR ANY ADDITIONAL PLUMBING SPECIFICATIONS.
25. ALL PIPING NOTED BELOW THAT IS EXPOSED TO FREEZING (NOT IN HEATED AREAS) SHALL BE PROTECTED BY A HEAT TRACE SYSTEM WITH INSULATION. HEAT TRACE FOR PIPE SIZES > 2" SHALL HAVE AN ELECTRICAL LOAD OF 5 W PER LINEAR FOOT OF PIPING WITH HEAT TRACE LINE INSTALLED AT BOTTOM OF PIPE. HEAT TRACE FOR PIPE SIZES ≤ 2" SHALL HAVE AN ELECTRICAL LOAD OF 10 W PER LINEAR FOOT (TWO STRIPS OF HEAT TRACE). UTILIZE CHROMALOX CPR COMMERCIAL SELF-REGULATING HEAT TRACE OR APPROVED EQUAL. COORDINATE ALL POWER REQUIREMENTS WITH ELECTRICAL DRAWINGS AND CONTRACTOR.
    - ALL P-TRAPS IN EXPOSED AREAS.
    - ALL DOMESTIC WATER SUPPLY AND WET FIRE SPRINKLER PIPING IN EXPOSED AREAS.
    - ALL GREASE WASTE PIPING IN EXPOSED AREAS.
26. ALL PUBLIC LAVATORY AND HAND SINK FAUCETS ARE TO BE PROVIDED WITH AN ASSE 1070 LISTED TEMPERATURE LIMITING DEVICE AS REQUIRED BY LOCAL PLUMBING CODE. CONTRACTOR SHALL UTILIZE ASSE 1070 LISTED, LEONARD MODEL LF-270 (OR APPROVED EQUAL) THERMOSTATIC MIXING VALVE SET AT 105°F MAX TO THOSE FAUCETS UNLESS NOTED OTHERWISE.

FIRE PROTECTION GENERAL NOTES

1. THE ARCHITECTURAL AND MEP DRAWINGS TO BE REFERENCED FOR COORDINATION ARE DIAGRAMMATIC IN NATURE, AND ARE NOT INTENDED TO INDICATE ALL POSSIBLE CONDITION. IT IS INTENDED THAT COMPLETE FIRE PROTECTION SYSTEMS BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND INTERFACES COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS INDICATED IN THESE CONTRACT DOCUMENTS SHALL BE STRICTLY CONFORMED TO AS SPECIFIED. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS, SHALL BE FURNISHED AND INSTALLED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS, EXISTING CONDITIONS, AND WORK OF OTHER TRADES PRIOR TO THE PREPARATION OF SHOP DRAWING SUBMITTALS.
2. ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.
3. THE CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL COMPLETE THE WORK INDICATED ON THE DRAWINGS. ALL SYSTEMS SHALL BE FINISHED, TESTED, AND ADJUSTED, AND PROVEN TO BE FULLY OPERATIONAL AND USEABLE.
4. GUARANTEE ALL EQUIPMENT AND SYSTEMS FOR ONE YEAR AFTER OWNER ACCEPTANCE.
5. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND ALL TRADES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, CONDUIT, PANELS, DUCTWORK, EQUIPMENT SUPPORTS, PIPING, ETC. AND COORDINATE THE INSTALLATION ACCORDINGLY.
6. THE FIRE PROTECTION SPRINKLER SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13, LATEST EDITION AND THE LOCAL AUTHORITIES HAVING JURISDICTION. SUBMIT FLOW TEST RESULTS, SHOP DRAWINGS, DETAILS, HYDRAULIC CALCULATIONS, ETC. AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION. OBTAIN FLOW TEST INFORMATION AS REQUIRED TO PROPERLY ANALYZE THE STREET WATER PRESSURE AVAILABLE FOR THE SYSTEM. REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PREPARE A REFLECTED CEILING PLAN INDICATING THE SPRINKLER HEAD LOCATIONS AND SUBMIT THIS TO THE ARCHITECT FOR REVIEW (NOT FOR ENGINEER REVIEW). COORDINATE THE SPRINKLER HEAD LOCATIONS WITH THE LIGHTING AND DIFFUSER / GRILLE LAYOUT. SPRINKLER HEADS SHALL BE LOCATED AT THE CENTER POINT OF CEILING TILES OR AN ORGANIZED PATTERN FOR GYPSUM BOARD TYPE CEILINGS.
8. ALL NEW SPRINKLERS SHALL MATCH TEMPERATURE AND RTI (RESPONSE TIME INDEX) OF EXISTING SPRINKLERS.
9. AREAS WHERE GLASS IS USED IN A 1 HOUR RATED PARTITION AND GLASS IS NOT SPECIFIED BY ARCHITECT TO MEET THIS RATING. "GLASS WASH" SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODE AT 6'-0" ON CENTER WITHIN 12" OF GLASS.
10. SCOPE

    A. FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLETE INSTALLATION OF THE FIRE PROTECTION SYSTEMS INCLUDING BUT NOT LIMITED TO PIPING, INSULATION, EQUIPMENT, SPRINKLER HEADS, AND ALL OTHER WORK INDICATED ON THE DRAWINGS OR AS SPECIFIED.

    B. OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION AND DELIVER CERTIFICATE OF APPROVAL TO THE GENERAL CONTRACTOR. ALL ASSOCIATED FEES SHALL BE PAID BY THE CONTRACTOR.

    C. CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS.

    D. ALL MATERIALS AND EQUIPMENT OF THE FIRE PROTECTION SYSTEMS NECESSARY TO ITS PROPER OPERATION, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE.

    E. VISIT SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. ANY ADJUSTMENTS IN PIPE ROUTING SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

    F. WORK SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE AND CURRENT BUILDING CODE, FIRE PROTECTION CODE, NFPA 13, AND LOCAL AUTHORITIES HAVING JURISDICTION.

GENERAL PROJECT INFORMATION

LOCATION:
LACROSSE, WI

APPLICABLE CODES:
2021 INTERNATIONAL BUILDING CODE WITH WI AMENDMENTS
2021 INTERNATIONAL PLUMBING CODE WITH WI AMENDMENTS
2021 INTERNATIONAL FUEL GAS CODE WITH WI AMENDMENTS
2021 INTERNATIONAL ENERGY CONSERVATION CODE WITH WI AMENDMENTS
LOCAL CITY OF LACROSSE ORDINANCES

RAINFALL RATE:
3.1" PER HOUR

GAS SERVICE:

GAS TYPE:	-	NATURAL
TOTAL DEVELOPED LENGTH (TDL)	-	250 FEET
INLET PRESSURE	-	14" W.C.
PRESSURE DROP	-	3" W.C.
SPECIFIC GRAVITY	-	0.60
MAX CAPACITY @ 2" PER TDL	-	1,860 CFH
PIPE MATERIAL	-	SCHD. 40 STEEL

FIRE PROTECTION NOTE

LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS FOR AN AUTOMATIC FIRE SPRINKLER SYSTEM FOR THIS BUILDING, TO COMPLY WITH SPACE LAYOUT, NFPA 13, STATE, LOCAL, AND INSURANCE UNDERWRITING AUTHORITIES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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PROJECT NO. 25.107 DRAWN BY Author ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
PLUMBING GENERAL

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
P-0.1

BUILDING SHELL CONSTRUCTION SET

WISCONSIN JESSE NAUGHTON E-101232 ATLANTA GA PROFESSIONAL ENGINEER
10/16/25

Salas O'Brien
salasobrien.com 404-881-5300
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339
Project No: 2550-01885

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PLUMBING AND FIRE SPRINKLER SPECIFICATIONS

PART 1.0 GENERAL

1.1 DESCRIPTION:

A. These plans are diagrammatic in nature and are intended to establish size, general routing and location, and performance and are not intended to show all possible conditions. All work shall be fully coordinated with other trades to insure the installation of a complete, operating system that fits in the space allotted. Provide all labor, equipment, appurtenances and materials necessary, and perform all operations required for the installation of complete, functional plumbing and fire protection systems as outlined on the drawings and described in the specifications.

B. This project is a tenant improvement of an existing base building shell system. The project space under this scope is a "first generation" fit-up of an existing base building shell system; or is currently occupied by or has been previously occupied by an existing tenant, and therefore is a "2nd or 3rd generation" fit-up. The exact condition of the existing work is not necessarily reflected in these drawings. Only the approximate conditions of the base building design and previous fit-up designs may be reflected in these drawings. Some undocumented work may have been performed, the conditions of which are not indicated on these drawings. Remove existing tenant work not indicated on these drawings and cap and seal connection points to existing work shown. Final work should reflect, as closely as possible, the layout shown of these drawings.

C. Because this project is an adaption to and partial renovation of an existing system, unknown circumstances and interferences may occur. The Contractor shall visit the site prior to any bid submission to familiarize himself with the existing conditions. The contractor shall make adjustments in routing and location and, if necessary, in size, in order to achieve the specified performance without incurring additions to the contract. Where existing conditions differ significantly enough to affect pricing, the contractor shall notify the building Owner/Manager prior to bid submission for a resolution. No allowance will be made for lack of knowledge of existing conditions.

D. Existing work (piping, devices and equipment) is shown dashed. New or relocated work is shown solid lined. Existing work to be removed is shown cross-hatched or noted. All data for existing work shown (locations, sizes, capacities, etc.) is taken from base building and previous fit-up design drawings (not "As-Built" or shop drawings) and are therefore approximate and for reference only. All data, sizes and exact locations and sizes must be field verified.

E. Refer to architectural floor plans and reflected ceiling plans to coordinate equipment with layout of walls and partitions and locations of all ceiling mounted devices. For any items not shown on the reflected ceiling plans, prepare drawings of the proposed locations and present to the Architect for approval prior to installation.

F. Due to the fact that areas adjacent to this work area will continue to operate during this construction phase, great care must be taken to maintain a clean job site. Any interruption of services (electricity, fire protection water, domestic water, sewer, gas, air conditioning, HVAC chilled and hot water, and steam and condensate return) to the building shall be coordinated with the Building Owner. Any work that requires activity outside this area shall be coordinated with the Building Owner. Provide barriers, dust enclosures, etc., as required to protect adjacent areas and staff. Provide temporary construction filters to prevent the contamination of adjacent areas and equipment with construction dust at the following locations: over all return air openings in tenant demising walls; on the return air inlet of all central station air conditioning units serving floors or portions of floors under this scope; and on the return air inlet of all remote auxiliary units serving portions of this tenant space.

G. Contractor shall coordinate all work required for utility service connections (electricity, domestic water, sewer, fire protection water, gas) to the building with the site work contractor, Civil Engineer, local utility companies, the local authorities having code jurisdiction.

H. All work shall be done in conformance with these specifications and local codes and ordinances. Where conflicting requirements may occur, the more stringent shall govern.

1.2 CODES AND REGULATIONS:

A. All systems shall be installed in accordance with the locally adopted Building Codes, Mechanical Codes, Energy Codes, Plumbing and Gas Codes, and NFPA (Latest Editions).

B. The Contractor shall obtain all permits and licenses, arrange for all inspections, perform all tests and pay all fees incidental thereto, as required for the execution of the contract and as required by the authorities having jurisdiction.

1.3 SHOP DRAWINGS:

A. Contractor shall submit an electronic copy of descriptive catalogue data for all new equipment and appurtenances to be used on this project. Catalogue data shall include performance data, dimensional data, standard and optional features and appropriate testing agency labels. The shop drawings shall be legible and shall clearly indicate the equipment tag or mark, related specification section, optional features to be provided, and any deviations from the specifications or scheduled capacities noted in red or highlighted. Verification and assignment of dimensions, quantities, and construction means, methods, sequences or procedures shall be the sole responsibility of the Contractor.

B. All submittal data shall be in electronic (Adobe .PDF) format; do not provide hard copies of submittal data for engineering review. The submittal page(s) for each piece of equipment shall include a blank area 3"x 3", on the front, for review stamp and comments. If the catalog data sheet does not have an open area as specified, provide a cover page for that piece of equipment with equipment tag and brief description for review and comment use. Provide record copies of reviewed submittal data to the owner/landlord at project close out; provide one (1) hard copy on 8-1/2"x11" format bound together in a binder or under a report cover and one (1) electronic PDF format copy on portable external USB flash drive media.

C. Illegible submittals and incomplete submittals (lacking equipment designations, performance data, dimensional data, or indication of optional features) may be summarily rejected without review. Any delay in the construction schedule resulting from rejected submittals is the responsibility of the Contractor for failure to adhere to these specifications.

D. The Contractor shall prepare "As Built" record drawings neatly and clearly indicating all design revisions and the actual installed conditions of all Mechanical systems (HVAC, Plumbing and Fire Protection). "As Built" record drawings shall be prepared in AutoCAD format, with all field modifications clearly identified by unique line type, color, highlight, or clouds. Contractor shall submit electronic record copies in PDF format to the Architect/Engineer for review and comment. Contractor shall provide record copies with all Architectural and Engineering comments incorporated in electronic AutoCAD format and 1 set of hard copy format full size drawings to the Landlord/Owner for As Built records and controls system graphics updates at project close out. "As Built" drawings shall not be exact duplicates of design drawings; they shall bear the name/logo of the Contractor and any stamp from the Engineer of record shall be removed. The Contractor shall obtain approval from the Architect/Engineer for use of design drawing title blocks.

1.4 ELECTRONIC COPIES OF ENGINEERING DESIGN FILES:

A. Subject to the approval of the Architect and Owner, the Contractor may obtain copies of the Engineer's electronic drawing files. A nominal fee per file may be requested. Plans can be provided in AutoCAD .DWG format in the Engineer's standard cad configuration; conversion to any other format and configuration is the responsibility of the contractor. Non-plan files (specifications, schedules, details, risers, etc.) will be provided in .PDF format only.

B. The Contractor MUST obtain written (email) permission and request these files through proper project channels (via the General Contractor, Architect, and Owner/Landlord). As the backgrounds are not the property of the Engineer, the Architect MUST provide written permission for use and transmission of their files prior to issue.

PART 2.0 PRODUCTS

2.1 DESCRIPTION:

A. All materials and equipment shall be new except those existing items indicated to be re-used. Any equipment or devices to be re-used shall be thoroughly cleaned and serviced to good working condition. All new equipment shall bear the label of the appropriate testing agency (UL, ETL, FM, CSA, AGA, ASTM, AMCA, PDI, CISPI, etc.). Provide one (1) year parts and labor warranty on all new equipment, systems and components, including workmanship.

B. The products of particular manufacturers have been used as the basis of design. Any modifications required to the plumbing or fire protection system, electrical system, building structure or finishes due to the use of equipment other than the basis of design shall be coordinated with all trades and performed without additional cost to the contract.

C. All new and existing construction products installed within return air plenums shall be plenum rated materials with an ASTM E84 maximum flame spread/smoke developed rating of 25/50. Any existing construction materials within a return air plenum that are not plenum rated shall be removed and replaced with plenum rated materials, or shall be covered with a UL Listed fire rated insulation assembly to separate all non-plenum rated materials from the return air plenum.

D. No hazardous materials may be installed or utilized on this project.

2.2 EQUIPMENT:

A. Plumbing and fire protection equipment shall be as indicated in the equipment schedule. Coordinate with electrical before ordering equipment requiring electrical connections. Equipment with motors shall be provided with built-in starters and disconnect switches, unless indicated otherwise on the drawings.

2.3 THERMAL INSULATION:

A. All plumbing and fire protection equipment and materials (piping, valves, etc.) with cold (below 65 degrees) or warm (above 90 degrees) surfaces shall be insulated per code minimum requirements and these specifications. All cold fluid piping insulation shall have a continuous vapor barrier. The use of staples for fastening insulation is prohibited. All insulation products shall be plenum rated with an ASTM E84 maximum flame spread/smoke developed rating of 25/50. All maximum thermal conductivity (k) listed below is measured at 75 degrees F mean temperature and expressed in terms of Btu/hour, sq. ft., degree F per inch thickness of material.

B. All portions of Plumbing hot and cold fluid piping systems shall be insulated including valving, fittings, unions and flanges, and all piping system equipment, accessories, and appurtenances. All valving and piping accessories shall be insulated with removable insulation packages, molded to the shape of the component, with all seams taped and sealed to make a continuous vapor barrier. Vapor barrier for piping insulation shall be sealed at all appurtenance penetrations with fabric and mastic or insulating cement.

C. All domestic cold water piping shall be insulated with preformed flexible closed cell elastomeric foam piping insulation system permeated with an anti-microbial agent, with a maximum thermal conductivity (k) of 0.25, butt joints and self-adhesive longitudinal seams with self-adhesive lap strip, AP Armaflex Black Lap Seal with Microban. Seal all seams with self-sealing adhesive lap strips; seal all joints between sections with Armaflex 520 solvent adhesive and tape. Fittings shall be fabricated from mitred sections of preformed pipe, tape and/or solvent seal all seams and joints. Provide Armafix IPH inserts or Foam-Glas inserts at hangers. Insulation thickness shall be 1/2" for all dom. cold water pipe diameters.

All domestic hot water piping shall be insulated with preformed fiberglass pipe insulation with a maximum thermal conductivity (k) of 0.26. Provide all-service jacket, butt joints and adhesive lap strips, tape all joints and seams. Fittings shall be fabricated from mitred sections of preformed pipe insulation or Zeston preformed plastic fittings packed with batt type insulation inserts, tape and seal all joints and seams. Provide Foam-Glas inserts at hangers. Insulation thickness shall be 1" for all automatic circulating dom. hot water system pipe diameters, and 1" for all non-circulating dom. hot water system pipes 1" diameter and below and 1.5" for all piping greater than 1" diameter per IECC C403.11.3.

D. Insulate all piping below handicap accessible sinks per ADA requirements. Insulate P-traps, trap arm, angle stop valves, and risers with a packaged molded vinyl insulation kit, Handi Lav-Guard model 102W and 105W by Truebro, or approved equivalent. Provide factory preformed piping insulation kits as described or approved equivalent only. Other types of insulation systems: non-molded vinyl covered cloth with velcro or zip-up covers, field fabricated pipe insulation systems, and flexible strip wrapping type insulation are not acceptable. As an alternate, provide McGuire's ProWrap p-trap kit with integral closed-cell, antimicrobial ADA coating provided with water supply covers.

E. All sanitary/waste drainage piping receiving cold waste water (condensate drainage, icemaker waste, water cooler/drinking fountain waste, etc.) shall be insulated with 1-1/2" thick, 1 pcf fiberglass blanket wrap insulation with reinforced foil vapor barrier and foil faced tape seals. Preformed piping insulation systems as described for domestic hot and cold water piping may be substituted. Insulate all portions of drain system piping receiving undiluted cold waste water to connection with main drain lines including: drain body, tailpiece connections, traps, and trap arms. Insulate all horizontal storm water piping similarly. Insulate and heat trace all traps exposed in unconditioned areas.

F. All horizontal storm water piping shall be insulated with 1-1/2" thick, 1 pcf fiberglass blanket wrap insulation with reinforced foil vapor barrier and foil faced tape seals. Preformed piping insulation systems as described for domestic hot and cold water piping may be substituted.

G. All waste drainage piping which receives cold waste water (icemaker waste, etc.) from equipment connection to sanitary drainage system shall be insulated with preformed, foamed plastic tubing, plenum rated pipe insulation, Armaflex type FR or approved equivalent. Insulation thickness shall be 1/2" for all pipe diameters.

H. All condensate drainage piping and all waste drainage piping which receives cold waste water (icemaker waste, etc.) from equipment connection to sanitary drainage system shall be insulated with preformed flexible closed cell elastomeric foam piping insulation system permeated with an anti-microbial agent, with a maximum thermal conductivity (k) of 0.25, self adhesive longitudinal seams with self adhesive lap strip, AP Armaflex Black Lap Seal with Microban. Seal all seams with self-sealing adhesive lap strips; seal all joints between sections with Armaflex 520 solvent adhesive and tape. Fittings shall be fabricated from mitred sections of preformed pipe, tape and/or solvent seal all seams and joints. Provide Armafix IPH inserts or Foam-Glas inserts at hangers. Insulation thickness shall be 1/2" for all pipe diameters.

I. Any existing or new PVC sanitary/waste drainage piping which will be exposed to return air plenums shall be insulated with 1/2" to 1.5" thick, 6 pcf inorganic fiber blanket wrap insulation with scrim-reinforced foil vapor barrier and foil faced tape seals. The insulation system shall be specifically manufactured and rated for PVC pipe installation within a return air plenum. The insulation system shall constitute a UL Listed 1-hr or 2-hr fire rated separation assembly around PVC piping per UL 1887 & 910, and shall provide a non-combustible 25/50 flame spread/smoke developed rated enclosure assembly per ASTM E 84 & 136. The insulation system shall be applied in strict accordance with the manufacturer's recommendations. Insulation shall be 3M Fire Barrier Plenum Wrap 5A+, Unifrax FryeWrap, Morgan ThermalCeramics PlenumWrap+, or approved equivalent.

J. All piping that will be visible shall be prepared to receive fog spray paint. Clean all visible insulated components with spray cleanser and dry surfaces thoroughly. Clean all visible uninsulated components with de-greasing cleanser, specifically manufactured to clean metal and dry all surfaces thoroughly. See section 3.2, paragraph T, for additional requirements.

2.4 PLUMBING PIPING:

A. No products containing lead may be installed or utilized on this project for any portion of the domestic water system equipment, valving, piping, or other appurtenances. All piping materials utilized shall meet code requirements. All piping within return air plenums shall have an ASTM E84 25/50 rating.

B. All domestic water (CW & HW) piping above ceiling and within walls shall be type "L" seamless rigid copper tubing with wrought fittings and sweated joints with BCuP or BAg brazing filler material (lead free alloys only). All domestic CW & HW piping below floor shall be type "L" seamless soft copper tubing with no fittings below floor (fittings within walls or cabinets at above floor connection points only). DCW piping exposed above countertops and below/within counters for connections to tenant appliances (coffee makers, ice makers, dishwashers, etc.) shall be braided reinforced plastic flexible piping, 1/2" or 3/8" to match appliance connection size, connected with hose clamps.Where flexible plastic appliance piping is not allowed by the Landlord for use in this building: DCW piping exposed above countertops and below/within counters for connections to tenant appliances (coffee makers, ice makers, dishwashers, etc.) shall be soft cooper, stainless steel, or braided tubing with compression or flared fittings; (flexible poly tubing with plastic fittings is not allowed), 1/2" or 3/8" to match appliance connection size.

C. All waste and vent (DWV) piping above ground shall be No-Hub cast iron with CISPI 301 fittings and couplings. Underground waste piping shall be DWV PVC with solvent weld joints and fittings. Smaller piping sizes for lavatory and sink trap arms, drains, and venting may be type "M" or type "DWV" seamless rigid copper tubing with wrought fittings and sweated joints with BCuP or BAg brazing filler material (lead free alloys only). Slope piping and provide cleanouts per minimum code requirements.

D. All supply angle stop valves shall be quarter-turn, chrome plated brass body, wheel handle, and escutcheon plate. Provide angle stop valves at CW and HW supply connections at all fixtures (instantaneous type water heaters, sinks and lavatories, etc.) with flexible risers; and at all appliances (dishwashers, ice makers, coffee makers, vending machines, etc.)

E. All shut-off valves shall be quarter-turn ball valves with bronze body, chrome plated brass ball, and Teflon seat and packing; or Milwaukee "Butterball" with bronze body, stainless steel disk, and Viton disk seat. Provide shut-off valves and unions at all equipment connections (storage type water heaters, pumps, etc.) Provide shut-off valves at main line branch taps serving each group of plumbing fixtures to isolate the fixture group for maintenance without shutting down the main water service.

F. Provide individual cold/hot water piping connections to all tenant break room fixtures and equipment (coffee makers, ice makers, dishwashers, soda fountains, cold/hot water dispensers, etc.) from connections to break room sink domestic cold water line header with shut off valves for each line. Provide dishwasher waste discharge piping connection to sink P-trap tail piece connection.

G. All domestic water connections to HVAC equipment and piping systems shall have backflow preventers (approved by local codes) with shut-off valves on each side. Where required by local codes, all domestic water connections to tenant equipment shall have backflow preventers.

H. Provide a water sensor / water shut off system to sense water leaks and shut off the main water supply to the entire break room fixture group, FloodStop model FS3/4 with extra sensor pad or approved equivalent. The water supply line to all tenant sink and water heater locations shall include a normally closed solenoid valve that is controlled by a water sensor capable of sending an output signal that will keep the solenoid valve closed when water is detected and sound an audible alarm. Provide controller with 120V/1ph connection mounted below sink counter with extended 18 ft. low voltage wiring connection up in wall to storage tank type water heater mounted above ceiling.

I. Provide trap primer tap and connection for all FD's except those collecting ice maker drains. See plumbing drawings for specifications. Provide vandal resistant funnel, for FD's collecting indirect connections (T&P relief, condensate drains and ice maker drains, auxiliary drain pans from water heaters and cooling coils).

J. All storm drainage (SD) piping above ground shall be No-Hub piping with CISPI 301 "Husky" fittings and couplings; service weight cast iron for 3" and above, and galvanized steel for 2-1/2" and smaller. Underground drainage piping shall be asphaltic coated service weight cast iron with neoprene gasketed hub and spigot joints and cast iron fittings. Ty-seal or No-Hub piping, installed per the manufacturer's published instructions, may be substituted for underground piping. Slope piping and provide cleanouts per minimum code requirements.

K. All gas (G) piping above grade and accessible (exposed within occupied spaces, below floor within accessible crawl spaces, within accessible attic spaces, and above accessible ceilings not used as return air plenums) shall be Schedule 40 black steel pipe of sizes indicated, ASTM A-53 class. For pipe sizes 2" and smaller, class 150 malleable iron fittings and threaded joints. For pipe sizes 2-1/2" and larger, standard weight wrought steel fittings and butt-welded joints. Provide the following minimum piping accessories at all equipment connections (in order of proximity to unit): flexible connection, union, dirt leg, and shut off valve (gas cock). All exterior gas piping installed exposed to weather or under covered, unconditioned areas shall be painted with a rust resistant primer and a weather proof final coat.

L. All gas (G) piping in accessible return air plenums, in non-accessible hollow enclosures, and below grade shall be Schedule 40 black steel pipe of sizes indicated, ASTM A-120 class, with standard weight wrought steel fittings, socket welded joints for pipe sizes 2" and smaller and butt-welded joints for pipe sizes 2-1/2" and larger. Underground piping shall be tar coated and wrapped.

M. No gas (G) piping shall be routed in non-accessible return air plenums, in non-accessible solid enclosures, and below floor slabs where other practical routing options are available. Where no other routing is practical (as determined by the local authority having jurisdiction) all gas piping through these enclosed spaces shall be Schedule 40 black steel pipe of sizes indicated, ASTM A-120 class, with standard weight wrought steel fittings, socket welded joints for pipe sizes 2" and smaller and butt-welded joints for pipe sizes 2-1/2" and larger. Further, the piping shall be encased in an airtight cast iron pipe enclosure which shall extend 2" beyond each end of the enclosed space, with both ends of the enclosure tightly sealed and vented to atmosphere.

N. Provide gas pressure regulator at connection to each piece of gas burning equipment (RTU's, UH's, etc.). See details for regulator locations in gas piping connection assembly. Regulators shall regulate gas pressure to equipment from 2/5 psi (max.) down to 11" w.g. (min.) and shall be sized to flow the maximum CFH requirements for each individual piece of equipment. Provide venting per manufacturer's rating. Refer to HVAC schedules for equipment gas input loads. Regulators shall be as manufactured by American Regulator, Maxitrol, or approved equivalent.

K. All piping is to be labeled with plastic labels, permanently strapped to piping, outside of applicable insulation and covers/enclosures. Where existing piping systems are labeled, labeling shall match existing base building standards. Where no current standards exist, labels shall be color coded, unique for each piping system, with flow direction arrows, and identification lettering. Piping shall be identified with black letters, sized to be easily readable from floor level. Locate and mount labels so as to be readable from floor level or area of easiest access. Provide labels at each piping branch connection, at each equipment connection, on each side of wall and floor penetrations, and at 20 linear feet on center maximum. Piping systems shall be identified as follows: domestic cold water = CW(DCW), domestic hot water HW(DHW), and domestic hot water recirculation/return = HWR(DHWR); sanitary/waste drainage = S; pumped waste discharge = (PWD); vent = V; storm drainage = SD; gas = G; condensate drainage = D; compressed air = CA.

L. Provide Watts model SD-3, 3/8" stainless steel backflow preventor on all water lines to tenant supplied equipment (coffee makers, ice makers, etc.). Backflow preventor shall be ASSE 1022 listed and approved. Backflow preventor shall be installed at or near the equipment it serves.

M. Provide complete water filtration system below counter for each area that has tenant supplied, water dispensing equipment that will be used for drinking (coffee makers, ice makers, water dispensers, etc.). Water filtration system shall be Aqua-Pure AP-DWS1000LF (without water dispenser) with auto shut-off meter. System shall reduce lead, VOC's, giadia cysts, turbidity, and taste/odor/sediment and be rated for 0.5 gpm. Provide set of replacement filters for future needs.

N. All piping that will be visible shall be prepared to receive fog spray paint. Clean all visible insulated piping with spray cleanser and dry surfaces thoroughly. Clean all visible uninsulated piping with de-greasing cleanser, specifically manufactured to clean metal and dry all surfaces thoroughly. See section 3.2, paragraph T, for additional requirements.

O. All piping gaskets and seals shall be chloramine resistant.

2.5 FIRE PROTECTION (Existing System Retrofit):

A. Rework existing fire protection system to cover all areas per NFPA 13. Relocate existing sprinklers and add new sprinklers as required to cover all areas per new Architectural floor plans and reflected ceiling plans. Existing piping may be reused where practical. Add new piping as needed for new sprinkler layout. Sprinkler system modification shall comply with NFPA 13 and local requirements.

B. Reuse existing base building sprinklers in acoustical tile ceilings as much as practical. Unless noted otherwise, provide new concealed flush mounted type sprinklers in all hard ceiling areas and all equipment rooms (LAN/Server Rooms, IT closets, etc.) Provide upright sprinklers below structure in areas without ceilings and open to structure above. Sprinkler heads located in building main entry vestibules and lobbies or on balconies exposed to the outdoors shall be dry barrel type. Locate all sprinklers within lay-in ceiling areas in the center of ceiling tiles, +/- 2". Provide layout of proposed sprinkler locations in hard ceiling areas and submit to architect for approval. Replace all damaged sprinklers and escutcheons. Where existing sprinklers must be replaced because of condition or new sprinklers must be added to accommodate architectural requirements, they shall match base building sprinklers. All new sprinklers shall have same temperature and response ratings as base building sprinklers. Submit manufacturer's data on new sprinklers, color selections, and proposed sprinkler layout to architect and engineer for approval prior to start of work. Concealed flush mounted sprinkler cover plates shall be factory painted only; field painting of cover plates is strictly prohibited.

C. The adapted piping system shall be coordinated with all other new and existing trades (mechanical, electrical, tele./data, etc.) and building components (architectural and structural) to avoid conflicts with other elements (ceiling lighting plan, ductwork, other mechanical piping, mechanical units and access clearances, electrical component clearances, cable trays and wireways, etc.). Where typical piping routing elevations are interrupted by non-typical conditions, provide offsets with drain valves as required at low points, and route above, below, or around conflicts. As FP piping is not shown on design drawings, it is the responsibility of the Contractor to provide offsets in FP piping as required for routing of all other trades, particularly ductwork and mechanical and electrical equipment and clearance requirements, and coordinate with those trades for their requirements. Remove all unused piping back to source (active mains or risers) and cap.

D. All new wet sprinkler piping shall be as per NFPA 13 and shall match existing materials, fittings, and couplings types, except that the use of plastic piping is strictly prohibited. The use of mechanical connection saddle taps is strictly prohibited.

E. This project may include several different ceiling types including 2x2 lay-in, gyp. board, wood slats, custom size/shape panels, ceiling "clouds", and areas without ceilings/open to structure above. Coordinate exact sprinkler types for different ceiling types with architect and submit data for architectural review prior to beginning any work. Provide full sprinkler coverage for all areas per NFPA 13 both above and below ceilings.

F. Where applicable, provide "glass wash" sprinkler density on both sides of glass mounted in 1 hour rated walls. Sprinklers shall be spaced at 6 ft. on center (no more and no less), not more than 1 ft. away from glass surfaces to be protected, and so designed that the entire surface of the glass is wet upon sprinkler activation.

G. Where applicable, provide dry barrel sidewall sprinklers for balcony and/or loading dock coverage. Coordinate sprinkler locations and elevations with door and window headers and overhangs.

H. Provide for coordination purposes only (NOT for engineer review), sprinkler system layout and coordination drawings showing new sprinkler layout, existing piping, new piping, and all other new/existing components requiring coordination (structure, ceiling lighting plan, ductwork, other mechanical piping, mechanical units, mechanical and electrical equipment and clearance requirements, cable trays and wireways, etc.) per paragraph C. above. Submit drawings and calculations to the local authority having jurisdiction as required for permitting.

I. All piping that will be visible shall be prepared to receive fog spray paint. Clean all visible uninsulated piping with de-greasing cleanser, specifically manufactured to clean metal and dry all surfaces thoroughly. See section 3.2, paragraph T, for additional requirements. Protect all sprinkler heads during painting process and remove protection immediately after. Inspect sprinkler system to confirm proper operation prior to occupancy; replace damaged and/or painted heads (replace do not clean) as necessary.

PART 3.0 EXECUTION

3.1 DESCRIPTION:

A. Install all equipment and materials in accordance with applicable codes, NFPA, NEC, applicable industry standards (SMACNA, ASME, ARI, AMCA, AGA, CISPI, etc.), manufacturer's recommendations, equipment UL listing requirements, and these documents. Should conflicts arise, the more stringent requirement shall govern.

B. Any damage to existing structure or finishes resulting from the installation of any equipment specified under this division shall be repaired to match surrounding areas. Coordinate all cutting and patching with other trades.

C. All materials and equipment shall be kept clean and protected from water, dust, and debris. Equipment and materials damaged by construction dust and debris shall be completely cleaned or shall be replaced with new; equipment and materials damaged by water shall be replaced with new. Protect all openings in equipment and the open ends of all ductwork and piping under construction. Clean all equipment and touch up any mars or scratches before beneficial occupancy; final condition of all new construction shall be clean and "like new".

D. Where existing equipment is to be re-used, Contractor shall check the equipment for proper operation upon initial job site mobilization and prior to beginning related work. Any non-functioning equipment must be reported to the Owner/Landlord and Design Team. Any existing base building equipment will be replaced or repaired by the Owner/Landlord at the Owner/Landlord's expense. Any existing supplemental equipment will be repaired by the Contractor under this scope at the expense of the Tenant. Any equipment not reported will be assumed to be in working order and must be fully functional when re-installed, otherwise contractor will be responsible for repairing or replacing said items with no additional cost to the Owner/Landlord or Tenant.

E. Pressure test all piping systems for leaks prior to installation of insulation and after cleaning, flush, and fill, at 1.5 times the maximum system operating pressure or at the piping system construction pressure rating, which ever is less. Test for 24 hours with no loss of pressure.

F. For grooved end piping systems, all grooved products utilized shall be supplied by one manufacturer. Grooving tools shall be supplied by the same manufacturer as the grooved components. A factory trained employee from the manufacturer shall provide periodic jobsite visits and on-site training for contractor's field personnel in the use of grooving tools, application of groove, and product installation. Contractor shall remove and replace any improperly installed products at no additional cost to the owner.

G. Provide for each new piece of equipment a permanent label (metal, bakelite, plastic, or equivalent) with the equipment name/tag/mark permanently embossed into the label. Mount label on unit, permanently affixed to unit, located adjacent to nameplate or adjacent to access door if nameplate is mounted within unit. Label shall indicate equipment tag, tenant name, and floor.

H. All piping below floor shall have a minimum cover of 12"; all piping below grade shall have a minimum cover of 36" or as required for invert elevation of Civil utility connections. Piping below floor/grade shall be laid on compacted loose fill (sand or fine gravel), back filled with compacted loose fill to above top of pipe and covered to floor/grade with compacted fill of earth removed during trenching. Repair flooring to match existing.

I. All exterior uninsulated steel piping installed exposed to weather or under covered, unconditioned areas shall be painted with a rust resistant primer and a weatherproof final coat. All exposed insulated piping shall have a weatherproof jacket for non-water proof insulation systems or the insulation shall be painted with a UV resistant paint for water proof insulation systems.

J. It is assumed that all existing sanitary and storm piping below grade/floor/slab is functional as currently installed. Contractor shall provide separate pricing line item (upon approval from Owner/Tenant) to scope the existing below slab/floor/grade sanitary and storm piping to confirm the existing system is not bellied, channeled, or collapsed and is free of clogs. Confirm existing piping is functional. The Owner/Tenant and Design Team shall be notified of any issues once existing piping is surveyed.

K. Provide Operation & Maintenance Manual for all new equipment (water heaters and pumps). Provide training for owner's representatives on maintenance and operation for all new equipment.

3.2 EQUIPMENT & MATERIALS INSTALLATION:

A. Plumbing and fire protection equipment and fixtures shall be as indicated in the equipment schedule or approved equivalent, and installed per the manufacturer's recommendations and all local codes. Coordinate with Electrical Contractor before ordering equipment requiring electrical connections; coordinate quantity, size, and type of connection(s) and overcurrent protection; and disconnect(s), and starter(s) requirements. Do not mount disconnect switches over unit nameplates. All electrical work shall be done in conformance with these specifications, electrical specifications, the National Electric Code, and local codes. Where conflicting requirements may occur, the more stringent shall govern.

B. Support all piping and equipment from structure above or floor below. Do not support from other ductwork, piping, conduit, etc. Support all piping with hangers, supports, anchors and guides per ANSI Code for pressure piping, ANS B31.1 with addenda 31.1 OA-69. Sizing and spacing of hangers shall be per these standards, unless otherwise noted. "C" clamps shall not be used unless tack welded or strapped to structural steel members.

C. Insulation shall be continuous at all wall and floor penetrations and at hanger supports. Hanger supports for insulated piping shall be outside insulation; provide insulated inserts and sleeves at hangers. Insulation vapor barrier shall be sealed at all joints and seams, and at penetrations by appurtenances (valve stems, etc.). Repair insulation at existing piping which has been reworked. Tears and punctures of vapor barrier shall be repaired and sealed. All piping pressure testing shall be performed before insulation is applied.

D. Provide sleeves, clamps for piping at all wall and floor penetrations, and fire proofing at all rated wall and floor penetrations. Provide escutcheon plates at all visible wall and ceiling penetrations.

E. Relocate any existing equipment and locate new equipment away from walls to structure and rated walls as necessary to provide required clearances for proper operation, maintenance and inspection. Relocate existing work (ducts, piping, & conduit) and locate new work as required to maintain required clearances for proper operation, maintenance and inspection.

F. Install all piping above ceiling as high as possible, with sloped piping as high as slope will allow. Raise any existing piping as required to avoid conflict with new ceiling features and new light fixtures, field verify height of all existing (plumbing, fire protection and HVAC) work. Route no piping through electrical rooms or computer equipment rooms, unless specifically serving that area alone. Where piping must be routed through electrical rooms or computer equipment rooms to serve them, route around (not over) electrical equipment or computer equipment and provide aux. drain pans below piping with moisture sensors to provide local audio and visual alarms and to send an alarm signal to the build energy management controls system.

G. Remove all inactive existing piping within the scope of this work which is not reused. Work not shown as new or existing on these documents shall be removed back to active mains. Connection points from piping removed to existing piping to remain shall be capped and sealed water/gas tight, and re-insulated to match existing insulation on existing piping to remain. Remove all unused piping back to source (active mains or risers) and cap.

H. Provide access panels in non-accessible ceilings and in walls to structure to allow adequate room for maintenance of equipment and balancing of system. Access panels shall maintain the fire rating of the wall or ceiling where required. See Architectural drawings and coordinate with Architect prior to installing any access panels.

I. Condensate drain lines shall be sized to match unit connection size (3/4" minimum) and as noted on plans, shall be trapped at the unit with a minimum 2" deep water seal, and shall be routed with a minimum slope of 1/8" per foot. Drain lines shall be terminated turned down above hub drains or floor drains on building interior; at roof drains, splash blocks or dry wells/French drains on building exterior; interior drains may be routed down in walls and below counters and terminated at the tailpiece of any sink or lavatory, should such connection be available (coordinate with Plumbing). At the Contractor's option, or where minimum slope cannot be maintained from the coil to the termination point, condensate drain pumps may be provided. Discharge from pump immediately to a high point and slope down to drain termination point. The Contractor shall be responsible for coordinating all requirements for drain pump installation (electrical connections, drain termination, Code compliance for ceiling plenum installations, etc.)

J. Equipment mounted above ceiling shall be suspended from structure above mounted on structural steel supports frame members (channels or angles) with all-thread hanger rods, sized per equipment weight requirements. All equipment suspended from concrete structure shall be supported by shallow insert concrete anchors, rated for 200 percent of point loads; coordinate with structural reinforcing or post tensioning elements. All equipment suspended from steel or wood structure above shall be suspended from structural steel supports frames (channels or angles) positively bolted to a minimum of three roof/floor frame members above. Support framing system shall be sized to support 200 percent of the total distributed equipment weight, frame members and all-thread rods shall be sized to support 200 percent of their respective point load weights. Bolt equipment to supports at each equipment support point (min. two points each on a min. of two frame members). Provide combination spring/neoprene vibration isolators for equipment with moving parts (fans, compressors, etc.). Equipment supports (angles, channels, etc.) shall extend sufficiently past footprint of equipment to allow for installation of vibration isolators above supports and within equipment height. Equipment support hangers shall be located to allow for unrestricted opening of equipment access doors/panels to allow for proper equipment maintenance. Locate equipment to provide adequate room from structure, walls above ceiling, and ceiling features to allow for maintenance of equipment and balancing of system. Provide auxiliary drain pan beneath entire unit for water storing equipment (water heaters) and equipment with cooling coils.

K. Flash all roof and exterior wall penetrations and seal water-tight. Provide wall sleeves for all wall penetrations. Provide roof curb by equipment manufacturer for all roof mounted equipment. All piping and wiring connections to roof mounted equipment shall connect through the bottom of the unit within the units' roof curb where units are offered with standard bottom connection options. Where equipment is offered with only side external connections, route connections up below unit, through the side of the roof curb (min. 8" above the roof) and seal curb penetration water tight. Where roof mounted equipment has no curb, provide a separate 12" high roof curb "pitch pocket" with curb cap and min. 4" overhang with drip edge on all sides for piping/wiring penetration through side of curb at 8" above roof. Seal curb penetrations leak-proof with silicon type, non-hardening sealant. Unprotected, direct penetrations through roof and standard pitch pockets without drip proof covers are not acceptable.

L. Provide auxiliary drain pans beneath all equipment containing or using water (all water heaters, HVAC equipment above ceiling, etc.) Route equipment and piping system auxiliary drains (aux. drain pans, T&P reliefs, etc.) to building sanitary drainage system and terminate via indirect connection with air gap. Route auxiliary drains from cooling coil aux. drain pans to the ceiling directly over a nearby sink and terminate with and escutcheon plate at the ceiling. Auxiliary drain pans for HVAC units not serving 24/7 operation areas shall have outlets capped. Provide water sensor/float switch in drain pan interlocked with unit to shut down unit upon sensing water. For HVAC unit serving critical 24/7 operation spaces, do not provide water sensor/float switch control; provide auxiliary drain from pan to the ceiling directly over a nearby sink or corridor adjacent to the unit (within Tenant space, and if sink not available). Auxiliary drain pans for water heaters shall also have water sensor mounted in drain pan interlocked with solenoid valve on heater's cold water supply line to close valve upon sensing of water. Route equipment and piping system auxiliary drains (aux. drain pans, T&P reliefs, etc.) to building sanitary drainage system and terminate via indirect connection with air gap.

M. Provide a water sensor / water shut off system to sense water leaks and shut off the main water supply to the entire break room fixture group, see Plumbing Piping specification section above for full requirements.

N. All piping below handicap accessible sinks shall be insulated and installed as high as possible and as far back as possible to provide maximum wheelchair access, per ADA requirements.

O. Clean and sanitize all domestic (potable) water piping systems per Code requirements after completed installation and before any potable use. The following shall be performed at a minimum: Clean all debris from piping before final connections are made. Pressure test the completed piping system. Flush the piping system with a cleaning and degreasing agent. Completely flush the piping system with clean water to remove all traces of debris and cleaning agents. Flush the piping system with a sanitizing agent. Completely flush the piping system with clean water to remove all traces of sanitizing agent. Fill the piping system with clean water.

P. All waste and vent (DWV) piping 3" and above shall be sloped at 1/8" per foot minimum, piping 2-1/2" and smaller shall be sloped at 1/4" per foot minimum. All grease waste (GW) piping shall be sloped at 1/4" per foot minimum. Provide cleanouts at all changes in directions. Provide additional cleanouts in all DWV piping at maximum 75 ft. intervals for 4" piping and above, and at maximum 50 ft. intervals for 3" piping and smaller.

Q. Prior to beginning work for sloped drainage piping systems (sanitary, grease waste, & storm) which are to connect to existing piping systems, field verify existing piping invert elevations as required to confirm adequate slope requirements of new piping systems connections to existing piping. If adequate invert elevation is not provided to gravity drain new systems where connecting to existing piping as shown on the plumbing plans, the Contractor shall notify Design Team and Owner immediately to provide direction.

R. Provide pipe supports at all piping changes in direction and at maximum center distances per ANSI Code for pressure piping, with sizing and spacing of hangers per these standards, unless otherwise noted. Mount piping on hangers within 12" of roof support structure above or provide seismic bracing for longer hanger lengths. Support grouped piping on trapeze type channel supports with two hanger rods, anchored to structure above; or rack type channels, supported from floor or grade below with two pipe stands and floor plates bolted to floor; clamp piping to supports. Support individual pipes from above with clevis, adjustable "J", or adjustable band type hangers with hanger rods anchored to structure above; or from wall with wall bracket. Provide riser clamps at floor penetrations and wall support brackets at vertical piping. Vertical risers shall be racked on walls, resiliently mounted to walls with "Unistrut" wall brackets and "Unisorb" clamping, or equivalent. Hanger rods shall be anchored to structure above with concrete anchors, beam clamps, or "C" clamps tack welded or strapped to steel structure. Hangers shall not support insulated piping directly from pipe and shall not crush the insulation system. Hangers shall be mounted outside the insulation with Foam-Glas inserts at all support points. Provide 18 ga. sheet metal saddles at all insulated piping hangers, saddles shall have width equal to 1/2 the pipe circumference and length equal to 4 times the insulation outer diameter. All excess hanger rod more than 1" below support member shall be removed with cut ends ground smooth.

S. Insulate and heat trace all portions of sanitary drainage system traps and all water supply piping exposed to unconditioned spaces (outdoors and within parking garage). Heat trace system shall be self-regulating type, 3 W/Ft. minimum with control panel (coordinate control panel location with Owner and Architect). Heat trace system shall be Chromalox SRL or approved equal. Provide with all options and accessories needed to supply a complete and operational system.

T. Many areas of the ceilings will be left open to structure, therefore, much of the ductwork, piping, and conduit systems will be visible. All construction work that will be visible (not just directly above open ceiling areas, but also adjacent to them) shall be prepared to receive fog spray paint. Clean all visible insulated surfaces with spray cleanser and dry thoroughly. Clean all metal ductwork, piping, conduit, and equipment surfaces with de-greasing cleanser specifically manufactured to clean metal to receive paint, and dry all surfaces thoroughly. Do NOT paint over equipment nameplates, product data stickers, controls components, component access covers, fire alarm j-boxes, and sprinkler heads (cover all with masking tape prior to painting and remove after). Refer to Architectural RCP and MEP plans for work that will be visible and coordinate in field with actual conditions. Coordinate cleaning for completion immediately prior to spray painting so that no dust from recent rough construction activities accumulates on cleaned work.

U. Provide fixture carriers at all wall mounted plumbing fixtures. Water closet fixture carriers shall be Mifab model MD-10 or equal (MC-10D for back-to-back installations), rated for 500 pounds when installed with the rear anchor. Provide correct carrier model based on waste outlet direction shown on plumbing plans. Provide minimum 7" clear space within stud wall cavity (8" for back-to-back installations) for installation of water closet carrier. If walls are masonry or cast in place, clearance shall be minimum of 11" clear between walls (15" for back-to-back installations). Contractor is responsible for confirming fitment of alternate fixture carriers within plumbing chases prior to ordering.

PLUMBING FIXTURES
(See Schedules on Plumbing Drawings)

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PROJECT NO. 25.107 DRAWN BY Author ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
PLUMBING SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
P-0.2

BUILDING SHELL CONSTRUCTION SET

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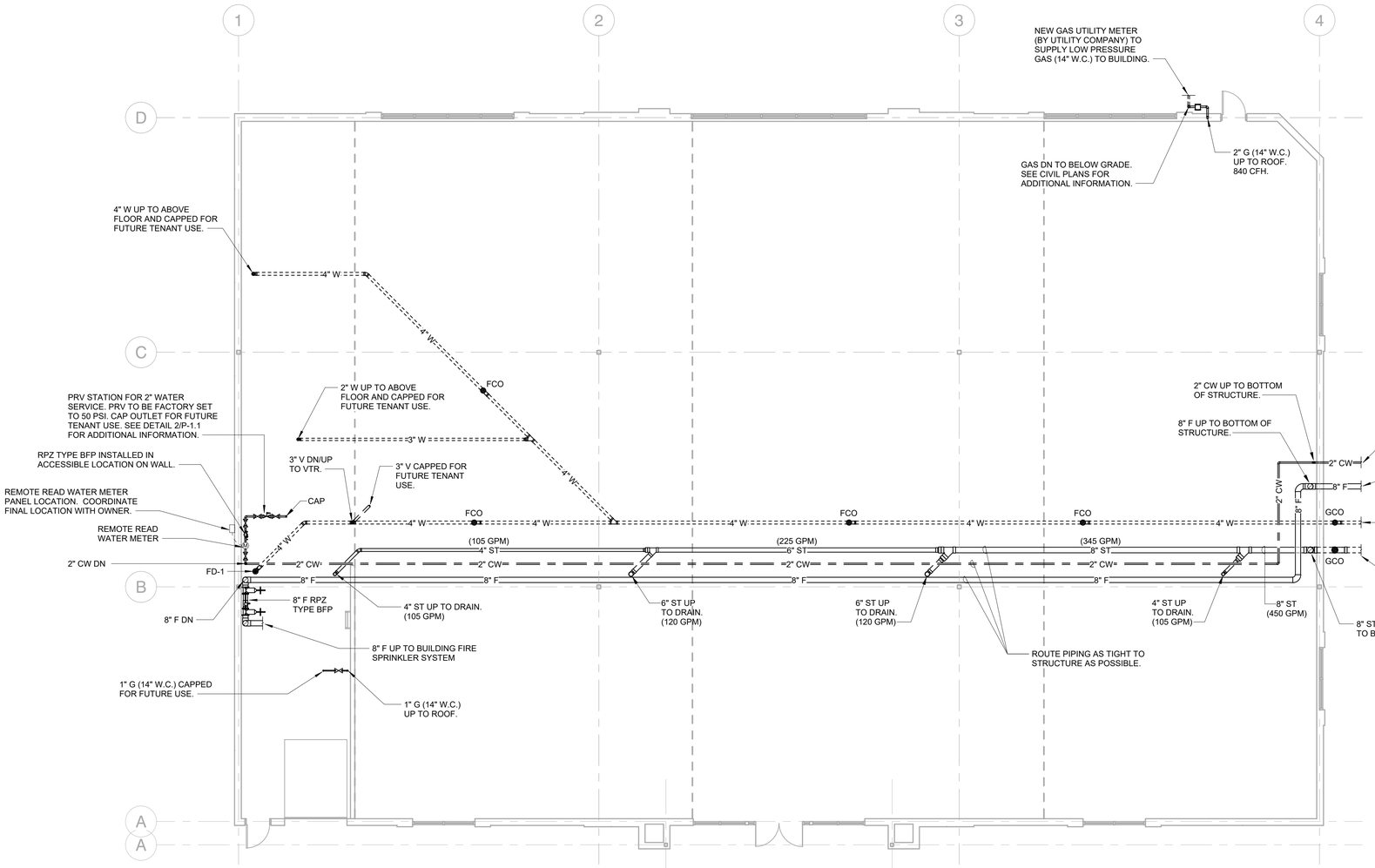
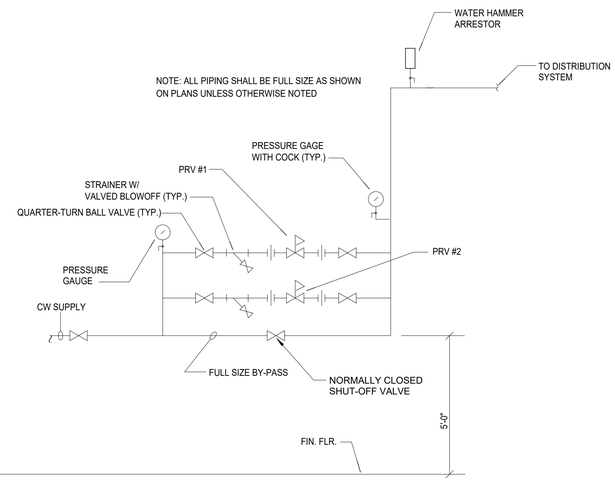


1 P-1.1 PLUMBING FLOOR PLAN
1/8" = 1'-0"



2 P-1.1 PRV STATION DETAIL
NOT TO SCALE

GENERAL NOTES:

1. ALL VENT, GAS, STORM AND WATER (CW, HW, AND HWR) PIPING SHALL BE ROUTED ABOVE THE CEILING, TIGHT TO STRUCTURE AND ALL SANITARY/WASTE PIPING SHALL BE ROUTED BELOW SLAB UNLESS NOTED OTHERWISE.
2. ALL ROOF/WALL PENETRATIONS TO BE SEALED WATER/AIR TIGHT.

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833 E. Michigan St. | Suite 540 | Milwaukee, WI 53202
ph. 414.278.6804 | www.instudioarch.com

PROJECT NO. 25.107 DRAWN BY Author ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

6

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
PLUMBING PLAN

STORE NAME:
LA-Z-BOY - LA CROSSE

WISCONSIN JESSE NAUGHTON E-101232 ATLANTA GA PROFESSIONAL ENGINEER
10/16/25

Salas O'Brien
salasobrien.com 404-881-5300
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339
Project No: 2550-01885

SHEET NO.
P-1.1

BUILDING SHELL CONSTRUCTION SET

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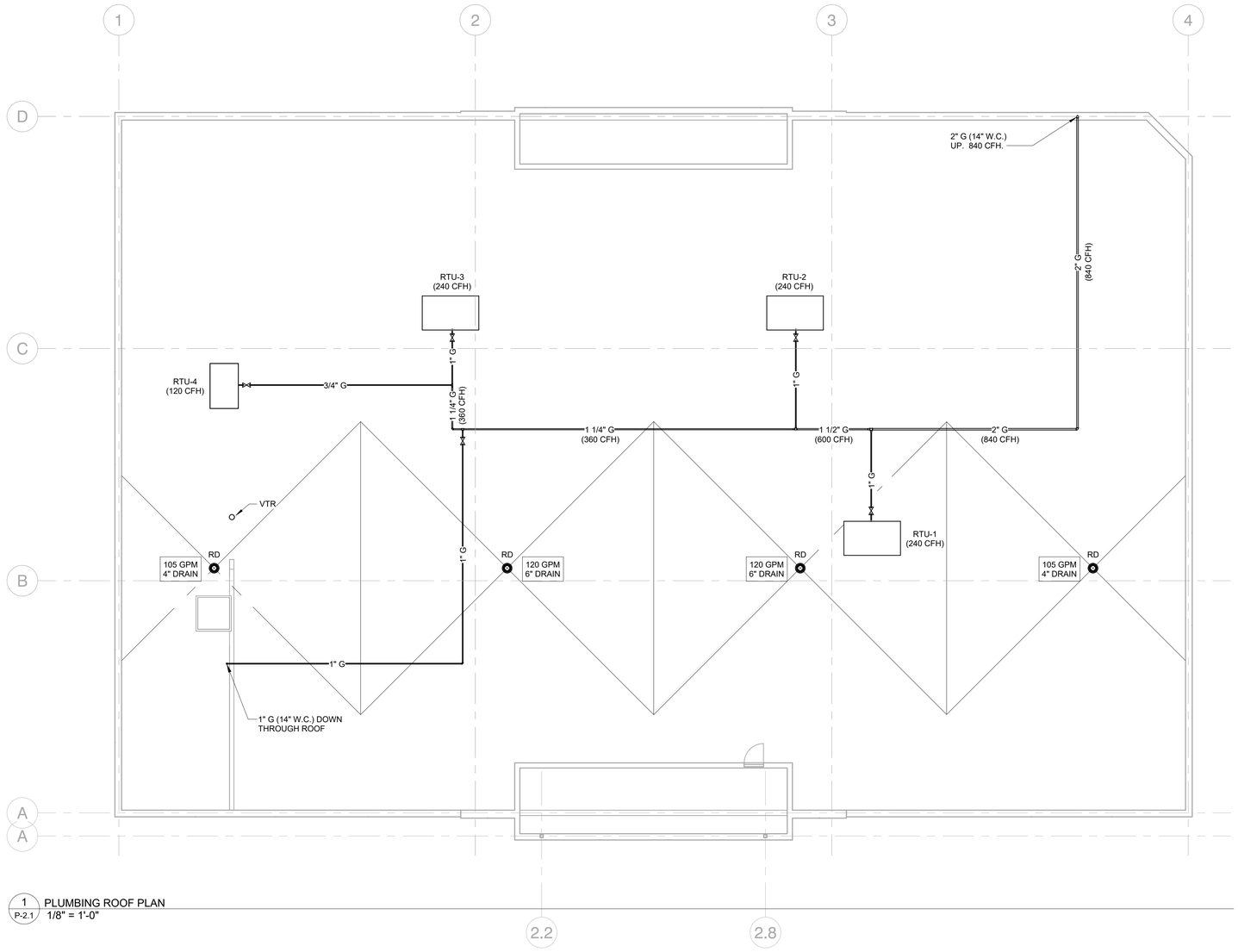
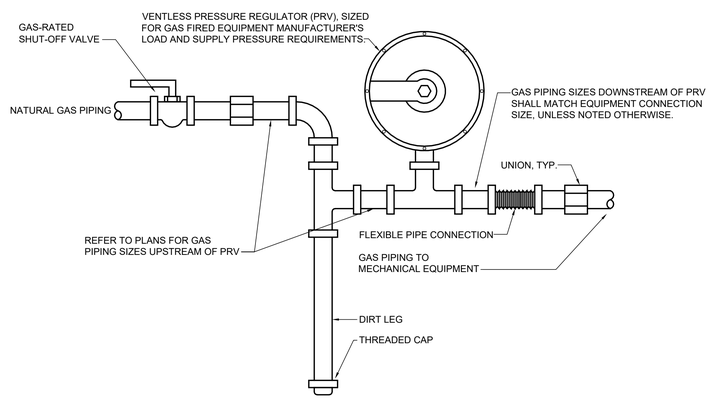


1 P-2.1 PLUMBING ROOF PLAN
1/8" = 1'-0"



2 P-2.1 GAS PIPING DETAIL
NOT TO SCALE

GENERAL NOTES:

1. ALL ROOF/WALL PENETRATIONS TO BE SEALED WATER/AIR TIGHT.
2. ALL GAS PIPING SHALL BE ROUTED ON ROOF UNLESS NOTED OTHERWISE.

GAS LOAD TABLE:

TYPE	LOAD (CFH)
RTU-1	240
RTU-2	240
RTU-3	240
RTU-4	120
TOTAL	**840 (CFH)**

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PLUMBING ROOF PLAN

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P-2.1

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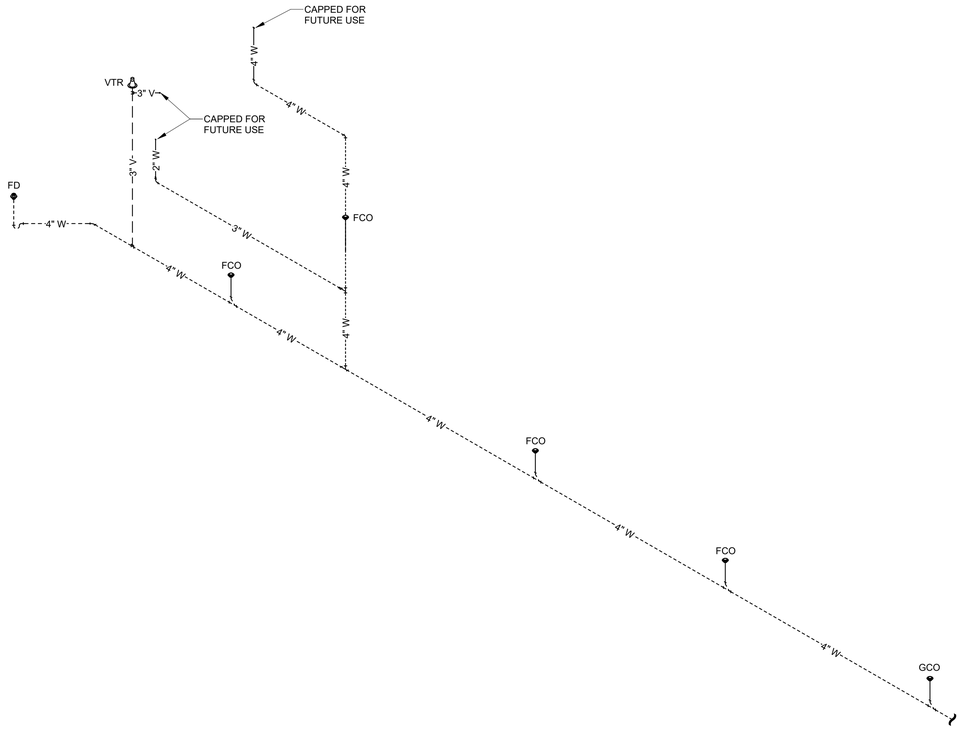
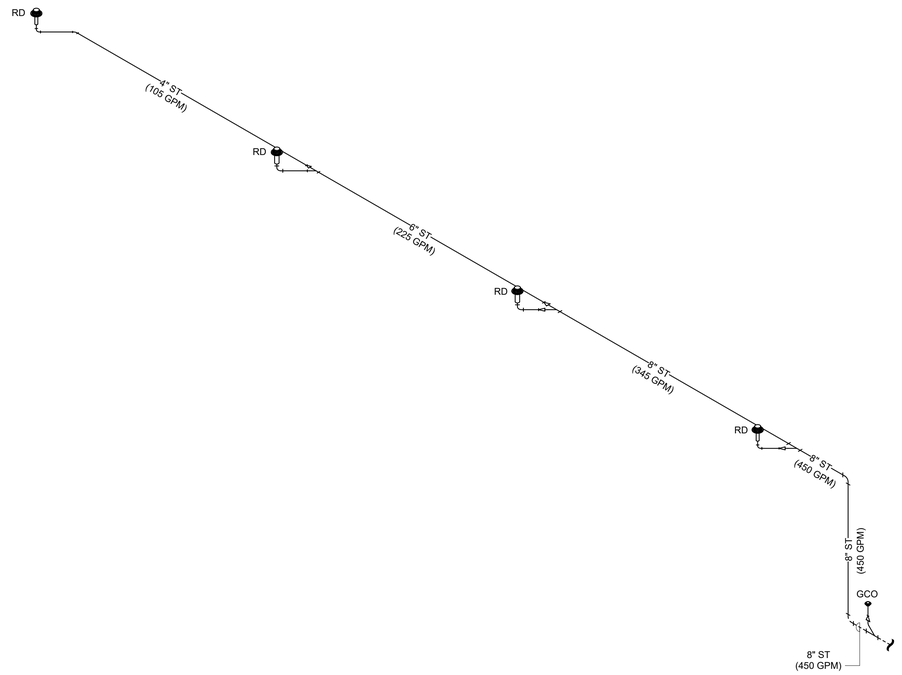
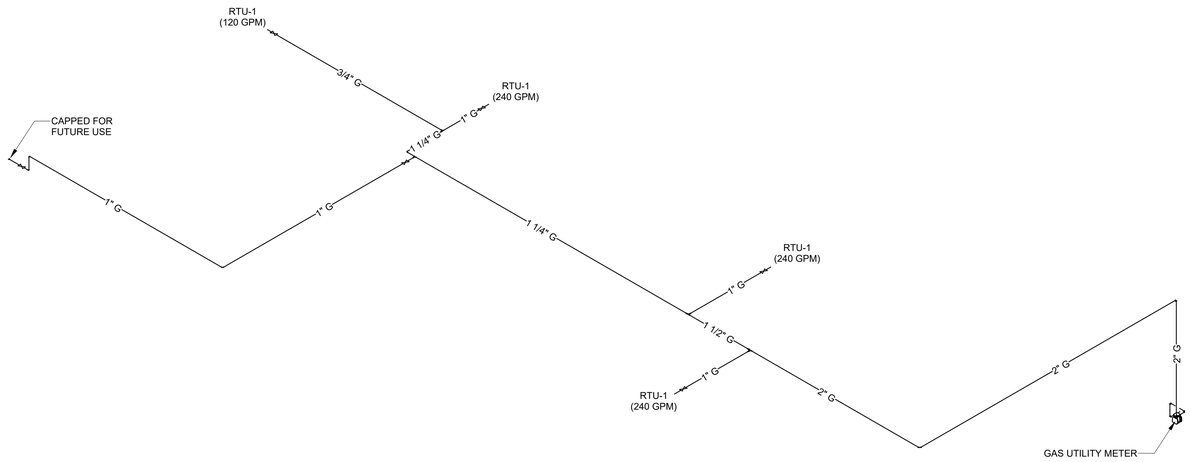


1 P-3.1 SANITARY RISER DIAGRAM
NOT TO SCALE



2 P-3.1 STORM RISER DIAGRAM
NOT TO SCALE



3 P-3.1 GAS RISER DIAGRAM
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FOR CONSTRUCTION

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ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
PLUMBING RISERS

STORE NAME:
LA-Z-BOY - LA CROSSE

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P-3.1

BUILDING SHELL CONSTRUCTION SET

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MECHANICAL ABBREVIATIONS

ABBREVIATION	DEFINITION
A/C	ABOVE CEILING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECT
B/F	BELOW FLOOR
BAS	BUILDING AUTOMATION SYSTEM
BD	BACKDRAFT DAMPER
BEL	BELOW
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT/HOUR
C	CONVECTOR
CAP	CAPACITY
CD	CEILING DIFFUSER
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CP	CONDENSATE PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	CONDENSATE DRAIN
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DG	DOOR GRILLE
DIA	DIAMETER (Ø)
DIFF	DIFFUSER
DN	DOWN
DWGS	DRAWINGS
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ENG	ENGINEER
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXTG	EXISTING
FA	FREE AREA
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLEX	FLEXIBLE
FLR	FLOOR
FOD	FACE OPERATED DAMPER
FPM	FEET PER MINUTE
FSD	FIRE/SMOKE DAMPER
FT	FEET
GAL	GALLON(S)
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GR	GRILLE
HD	HEAD (FT WC)
HP	HORSEPOWER
HR	HOUR
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
KW	KILOWATT
L&S	LOUVER & SCREEN
LAT	LEAVING AIR TEMPERATURE
LBG	LINEAR BAR GRILLE
LBS.	POUNDS
LD	LINEAR DIFFUSER
LDR	LINEAR DIFFUSER RETURN
LF	LINEAR FEET
LSD	LINEAR SLOT DIFFUSER
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTU/HOUR
MD	MANUAL DAMPER
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
MOV	MOTOR OPERATED VALVE
MTD	MOUNTED
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NOM	NOMINAL
NPSHA	NET POSITIVE SUCTION HEAD AVAIL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTERS
OPNG	OPENING
PH	ELECTRICAL PHASE
PIU	POWERED INDUCTION UNIT
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQ. IN. ABSOLUTE
PSIG	POUNDS PER AQ. IN. GAUGE
R	REFRIGERANT PIPING
R/H	RELATIVE HUMIDITY
RA	RETURN AIR
RD	ROUND DIFFUSER
REG	REGISTER
RG	RETURN AIR GRILLE
RL	REFRIGERANT LIQUID
RPM	ROTATIONS PER MINUTE
RR	RETURN AIR REGISTER
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SQUARE FEET
SG	SUPPLY GRILLE
SP	STATIC PRESSURE (IN. W.G.)
SPEC	SPECIFICATION
SQ	SQUARE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STR	STRUCTURAL
TAB	TEST AND BALANCE
TE	TOILET EXHAUST

MECHANICAL ABBREVIATIONS

ABBREVIATION	DEFINITION
TG	TRANSFER GRILLE
THRU	THROUGH
TOD	TOP OF DUCT
TRANS	TRANSITION
TSTAT	THERMOSTAT
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GUAGE
°F	DEGREES FAHRENHEIT
ΔP	PRESSURE DROP

NOTE: THESE ARE STANDARD ABBREVIATIONS. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

GENERAL SYMBOLS

CONNECT TO EXISTING

NORTH ARROW

DRAWING REVISION TAG

KEYED NOTE

PLAN OR DETAIL NUMBER

SHEET NUMBER

SHEET LIST

SHEET NUMBER	SHEET NAME
M-0.1	MECHANICAL GENERAL
M-0.2	MECHANICAL SCHEDULES & DETAILS
M-1.1	MECHANICAL NEW WORK PLAN
M-2.1	MECHANICAL ROOF PLAN

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY, VENTILATION, OUTSIDE AIR DUCTWORK SECTION
	RETURN OR TRANSFER AIR DUCTWORK SECTION
	EXHAUST OR RELIEF AIR DUCTWORK SECTION
	EXISTING DUCTWORK
	EXISTING DUCTWORK TO BE DEMOLISHED
	NEW DUCTWORK
	LINED DUCTWORK
	DUCTWORK END CAP
24"x24"	RECTANGULAR DUCTWORK DIMENSIONS
24"Ø	ROUND DUCTWORK DIMENSIONS
24"/24" FO	OVAL DUCTWORK DIMENSIONS
	SUPPLY DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	FLEXIBLE DUCT
	MITERED ELBOW (W/ TURNING VANES)
	RADIUS ELBOW
T	THERMOSTAT
H	HUMIDISTAT
S	SENSOR
MD	MANUAL / VOLUME DAMPER
BDD	BACKDRAFT DAMPER
M	MOTORIZED DAMPER
FD	FIRE DAMPER
FSD	MOTOR OPERATED FIRE SMOKE DAMPER
SD	SMOKE DAMPER
SD	DUCT SMOKE DETECTOR
10"Ø CD 200	AIR DISTRIBUTION TAG; SIZE, DEVICE TYPE, CFM

NOTE: THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

PIPING SYMBOLS

SYMBOL	DESCRIPTION
1" D	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
1" D	PIPE SIZE AND SYSTEM (SEE ABBREVIATIONS FOR SYSTEM TYPES)
D	CONDENSATE DRAIN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
R	REFRIGERANT LINE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	STRAINER
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	GAUGE COCK
	PIPE TURNING UP
	PIPE TURNING DOWN
	PIPE CONNECTION AT BOTTOM OF MAIN
	PIPE CAP
	PIPE UNION
	PIPE FLANGE
	PETES PLUG
	THERMOMETER
	PRESSURE GAUGE
	PUMP
	EXISTING PIPING
	NEW PIPING
	PIPING TO BE DEMOLISHED

NOTE: THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON DRAWINGS.

MECHANICAL SPECIFICATIONS

PART 1.0 GENERAL

1.1 DESCRIPTION:

A. These plans are diagrammatic in nature and are intended to establish size, general routing and location, and performance and are not intended to show all possible conditions. All work shall be fully coordinated with other trades to insure the installation of a complete, operating system that fits in the space allotted. Provide all labor, equipment, appurtenances and materials necessary, and perform all operations required for the installation of complete, functional mechanical systems as outlined on the drawings and described in the specifications.

B. This project is a "build to suit" / base building shell mechanical system installation for a new building. The approximate conditions of the building architectural elements are reflected in these drawings, however some undocumented work may be performed (added or removed) the conditions of which are not indicated on these drawings. Notify architect of any field conditions which do not match design. Install new equipment where indicated, and relocate as required to match field conditions, so that final work should reflect, as closely as possible, the layout shown of these drawings.

C. Because this project is a new installation of several trades, unknown circumstances and interferences may occur. The Contractor shall visit the site prior to any bid submission to familiarize himself with the existing site conditions. The contractor shall coordinate with all other trades and make adjustments in routing and location and, if necessary, in size, in order to achieve the specified performance without incurring additions to the contract. Where actual field conditions differ significantly enough from design to affect pricing, the contractor shall notify the building Owner/Manager prior to bid submission for a resolution. No allowance will be made for lack of knowledge of field conditions.

D. Refer to architectural floor plans and reflected ceiling plans to coordinate mechanical equipment with layout of walls and partitions and locations of all ceiling mounted devices. For any items not shown on the reflected ceiling plans, prepare drawings of the proposed locations and present to the Architect for approval prior to installation.

E. Contractor shall coordinate all work required for utility service connections (electricity, domestic water, sewer, fire protection water, gas) to the building with the site work contractor, Civil Engineer, local utility companies, the local authorities having code jurisdiction.

F. All work shall be done in conformance with these specifications and local codes and ordinances. Where conflicting requirements may occur, the more stringent shall govern.

1.2 CODES AND REGULATIONS:

A. All Mechanical systems shall be installed in accordance with the locally adopted Building Codes, Mechanical Codes, Energy Codes, Plumbing and Gas Codes, and NFPA (Latest Editions).

B. The Contractor shall obtain all permits and licenses, arrange for all inspections, perform all tests and pay all fees incidental thereto, as required for the execution of the contract and as required by the authorities having jurisdiction.

1.3 SHOP DRAWINGS:

A. Contractor shall submit an electronic copy of descriptive catalogue data for all new equipment and appurtenances to be used on this project. Catalogue data shall include performance data, dimensional data, standard and optional features and appropriate testing agency labels. The shop drawings shall be legible and shall clearly indicate the equipment tag or mark, related specification section, optional features to be provided, and any deviations from the specifications or scheduled capacities noted in red or highlighted. Verification and assignment of dimensions, quantities, and construction means, methods, sequences or procedures shall be the sole responsibility of the Contractor.

B. All submittal data shall be in electronic (Adobe .PDF) format; do not provide hard copies of submittal data for engineering review. The submittal page(s) for each piece of equipment shall include a blank area 3"x 3", on the front, for review stamp and comments. If the catalog data sheet does not have an open area as specified, provide a cover page for that piece of equipment with equipment tag and brief description for review and comment use. Provide record copies of reviewed submittal data to the owner/landlord at project close out; provide one (1) hard copy on 8-1/2"x11" format bound together in a binder or under a report cover and one (1) electronic PDF format copy on portable external USB flash drive media.

C. Illegible submittals and incomplete submittals (lacking equipment designations, performance data, dimensional data, or indication of optional features) may be summarily rejected without review. Any delay in the construction schedule resulting from rejected submittals is the responsibility of the Contractor for failure to adhere to these specifications.

D. The Contractor shall prepare "As Built" record drawings neatly and clearly indicating all design revisions and the actual installed conditions of all Mechanical systems (HVAC, Plumbing and Fire Protection). "As Built" record drawings shall be prepared in AutoCAD format, with all field modifications clearly identified by unique line type, color, highlight, or clouds. Contractor shall submit electronic record copies in PDF format to the Architect/Engineer for review and comment. Contractor shall provide record copies with all Architectural and Engineering comments incorporated in electronic AutoCAD format and 1 set of hard copy format full size drawings to the Landlord/Owner for As Built records and controls system graphics updates at project close out. "As Built" drawings shall not be exact duplicates of design drawings; they shall bear the name/logo of the Contractor and any stamp from the Engineer of record shall be removed. The Contractor shall obtain approval from the Architect/Engineer for use of design drawing title blocks.

1.4 ELECTRONIC COPIES OF ENGINEERING DESIGN FILES:

A. Subject to the approval of the Architect and Owner, the Mechanical Contractor may obtain copies of the Engineer's electronic drawing files. A nominal fee per file may be requested. Plans can be provided in AutoCAD .DWG format in the Engineer's standard cad configuration; conversion to any other format and configuration is the responsibility of the contractor. Non-plan files (specifications, schedules, details, risers, etc.) will be provided in .PDF format only.

B. The Contractor MUST obtain written (email) permission and request these files through proper project channels (via the General Contractor, Architect, and Owner/Landlord). As the backgrounds are not the property of the Engineer, the Architect MUST provide written permission for use and transmission of their files prior to issue.

PART 2.0 PRODUCTS

2.1 DESCRIPTION:

A. The products of particular manufacturers have been used as the basis of design. Any modifications required to the mechanical system, electrical system, building structure or finishes due to the use of equipment other than the basis of design shall be coordinated with all trades and performed without additional cost to the contract.

B. No hazardous materials may be installed or utilized on this project.

2.2 EQUIPMENT:

A. Mechanical equipment shall be as indicated in the equipment schedule. Coordinate with electrical before ordering equipment requiring electrical connections. Equipment with motors shall be provided with built-in starters and disconnect switches, unless indicated otherwise on the drawings.

2.3 DUCTWORK AND ACCESSORIES:

A. All new supply and return air ductwork shall be G90 galvanized sheet steel, fabricated and installed in accordance with SMACNA pressure rating classification and code. Fiberglass duct board is prohibited. Ductwork shall be rectangular or round as indicated; round equivalent may be substituted for rectangular only where specifically indicated or with prior approval. Sizes indicated on drawings are clear inside dimensions available for air flow (add liner thickness for sheetmetal sizes). Ductwork shall be sealed to minimized leakage; maximum allowable leakage shall be 2 per cent. All joints shall be mechanically fastened and sealed, all seams shall be sealed, and all audible leaks shall be resealed. Sealants shall be water based only. Low pressure ductwork is that portion of the duct system downstream of the terminal unit discharges, and shall be SMACNA Pressure Class 1.5" w.g.

B. Make adjustments in routing, location and, if necessary, in size of ductwork in order to avoid conflicts and achieve the design intent. Differently sized rectangular ductwork may be substituted for design ductwork sizes provided that it is sized for equivalent pressure loss (not just cross sectional area) to sizes indicated.

C. All ductwork that will be visible shall be lined (where insulation required) and prepared to receive fog spray paint. Clean all visible insulated piping with spray cleanser and dry surfaces thoroughly. Clean all visible uninsulated piping with de-greasing cleanser, specifically manufactured to clean metal and dry all surfaces thoroughly. See section 3.3, paragraph K, for additional requirements.

2.4 THERMAL INSULATION:

A. All mechanical equipment and materials (ductwork, piping, valves, etc.) with cold (below 65 degrees) or warm (above 90 degrees) surfaces shall be insulated. All external insulation shall have a continuous vapor barrier. The use of staples for fastening insulation is prohibited. All insulation products shall be plenum rated with a maximum flame spread/smoke developed rating of 25/50. Provide insulation with a maximum thermal conductivity (k) listed below, measured at 75 degrees F mean temperature and expressed in terms of Btu/hour, sq. ft., degree F per inch thickness of material.

B. Line all new supply and return air ducts as indicated on drawings and/or as described below. Duct liner for new independent systems shall be 1" thick closed cell elastomeric foam insulation permeated with an anti-microbial agent, with a self-adhesive internal surface in contact with the ductwork interior, with a maximum thermal conductivity (k) of 0.25, Armaflex AP/Coolflex with Microban, with all joints and seams sealed with Armaflex 520 adhesive. In general: all return air ductwork shall be lined; and supply air ductwork shall be lined from air handling equipment (PIU/VAV, HPU, FCU, fan, etc.) discharges through the first horizontal elbow or through the first twelve (12) feet, whichever is greater. All new low pressure supply air ductwork serving conference type areas (training, seminar, etc. rooms) shall be lined. Sizes indicated on drawings are clear inside dimensions available for air flow (add liner thicknesses for sheetmetal sizes).

C. All ductwork and piping that will be visible shall be prepared to receive fog spray paint. Clean all visible insulated components with spray cleanser and dry surfaces thoroughly. Clean all visible uninsulated components with de-greasing cleanser, specifically manufactured to clean metal and dry all surfaces thoroughly. See section 3.3, paragraph K, for additional requirements.

2.5 HVAC PIPING:

A. All condensate drainage (CD) piping shall be insulated type "M" hard drawn copper with wrought fittings and tin alloy soldered joints (lead-free tin alloys only, consisting of antimony, nickel, or silver). Condensate drainage piping not in return air plenums may be insulated PVC with solvent weld fittings and joints.

PART 3.0 EXECUTION

3.1 DESCRIPTION:

A. Install all equipment and materials in accordance with applicable codes, NFPA, NEC, applicable industry standards (SMACNA, ASME, ARI, AMCA, AGA, CISPI, etc.), manufacturer's recommendations, equipment UL listing requirements, and these documents. Should conflicts arise, the more stringent requirement shall govern.

B. Any damage to existing structure or finishes resulting from the installation of any equipment specified under this division shall be repaired to match surrounding areas. Coordinate all cutting and patching with other trades.

C. All materials and equipment shall be kept clean and protected from water, dust, and debris. Equipment and materials damaged by construction dust and debris shall be completely cleaned or shall be replaced with new; equipment and materials damaged by water shall be replaced with new. Protect all openings in equipment and the open ends of all ductwork and piping under construction. Clean all equipment and touch up any mars or scratches before beneficial occupancy; final condition of all new construction shall be clean and "like new".

D. Pressure test all duct systems for leaks prior to installation of insulation at the pressure rating of the duct system construction or 1.25 times the maximum operating pressure, which ever is greater. Maximum duct system leakage rate shall be 2 percent.

E. Pressure test all piping systems for leaks prior to installation of insulation and after cleaning, flush, and fill, at 1.5 times the maximum system operating pressure or at the piping system construction pressure rating, which ever is less. Test for 24 hours with no loss of pressure.

F. For grooved end piping systems, all grooved products utilized shall be supplied by one manufacturer. Grooving tools shall be supplied by the same manufacturer as the grooved components. A factory trained employee from the manufacturer shall provide periodic jobsite visits and on-site training for contractor's field personnel in the use of grooving tools, application of groove, and product installation. Contractor shall remove and replace any improperly installed products at no additional cost to the owner.

G. Provide for each new piece of mechanical equipment a permanent label (metal, bakelite, plastic, or equivalent) with the equipment name/tag/mark permanently embossed into the label. Mount label on unit, permanently affixed to unit, located adjacent to nameplate or adjacent to access door if nameplate is mounted within unit. Label shall indicate equipment tag, tenant name, and floor.

H. Provide for each new and existing device controlling mechanical equipment (thermostat, sensor, switch, rheostat, timer, etc.) a permanent label (metal, bakelite, plastic, or equivalent) with the controlled equipment name/tag/mark permanently embossed into the label. Mount label permanently affixed to device cover (or on inside of hinged covers) and located so as not to block device operation or instructions.

I. Provide smoke detectors in the supply and return air openings of all air handling systems with air delivery capacities of 2000 CFM or above to shut down the unit(s) upon detection of smoke and notify the fire alarm system. Where buildings are equipped with existing or new fire alarm systems, smoke detectors shall be compatible with the fire alarm system and shall match existing system or building standard types; where systems are addressable, provide addressable type detectors; coordinate with Electrical Contractor. Unit mounted smoke detectors shall be factory mounted and wired. Unless otherwise noted, duct mounted smoke detectors shall be installed by Mechanical Contractor and wired by Electrical Contractor.

J. Provide Operation & Maintenance Manual for all new equipment. Provide training for owner's representatives on maintenance and operation for all new equipment.

3.2 TEST AND BALANCE:

A. Test and balance shall be performed by a NEBB or AABC licensed agency only. Provide an electronic (.PDF format) copy and one (1) original bound 8.5"x11" hard copy of a complete, typewritten test and balance report for review upon project completion. Test and balance all equipment and air distribution devices to capacities indicated. Adjust drives as required. Report condition and operation of all controls and controlled devices.

B. Balance report shall indicate air and water flows and percent of design flow for all devices and equipment. Flows for equipment serving multiple devices shall be totaled for each piece of equipment. Provide small scale drawing(s) with report indicating device numbers and equipment tags. Equipment shall be referenced per the tags as noted on the design drawings; where equipment is not so noted on the design, note tags used for balancing report on small scale drawing provided. Balancing report shall note the nominal size/capacity of all equipment (inlet diameter and fan size for VAV's & PIU's, nominal tons for HPU's, FCU's, RTU's, etc.) as well as the manufacturer, model numbers, and all pertinent data related to testing and operation from the nameplate.

C. Test all equipment controls for proper response to all applicable operation sequences: cooling, heating, economizer, and ventilation/exhaust cycles; normal, after hours, night setback, morning warm-up/cool down, and emergency modes.

D. Balance all system components to within -5% or +10% of design quantities indicated. Measure and record entering, leaving, and operating characteristics at all equipment for comparison with design capacities scheduled. Measurements/recordings may include, but are not limited to, the following: entering and leaving temperatures, pressures, velocities, and flow rates for all fluids (air, water, refrigerant, etc.); all electrical operating characteristics (voltage, amps, watts); unit model numbers, component sizes, and operating speeds (both motor and driven equipment rpm's).

E. Where initial measurements indicate equipment to be operating at conditions significantly different from scheduled capacities (greater than -5% or +10%), balance all devices proportionally to their respective percentage of the total flow; measure all entering, leaving, and operating conditions for diagnostic purposes; record all nameplate data from equipment tested; note any discrepancies between design requirements and installed conditions; and report all info to the architect/engineer in writing as soon as possible.

F. Recalibrate controls in areas associated with this work to insure proper operation. Adjust cooling setpoints to 75 degrees F and heating setpoints to 72 degrees F.

3.3 EQUIPMENT & MATERIALS INSTALLATION:

A. Mechanical equipment shall be as indicated in the equipment schedule or approved equivalent, and installed per the manufacturer's recommendations. Coordinate with Electrical Contractor, before ordering equipment requiring electrical connections; coordinate quantity, size, and type of connection(s) and overcurrent protection; and disconnect(s), and starter(s) requirements. Do not mount disconnect switches over unit nameplates. All electrical work shall be done in conformance with these specifications, electrical specifications, the National Electric Code, and local codes. Where conflicting requirements may occur, the more stringent shall govern.

B. Support all ductwork, piping and equipment from structure. Do not support from other ductwork, piping, conduit, etc. Support all ductwork with hangers and supports per SMACNA. Support all piping with hangers, supports, anchors and guides per ANSI Code for pressure piping, ANS B31.1 with addenda 31.1 OA-69. Sizing and spacing of hangers shall be per these standards, unless otherwise noted. "C" clamps shall not be used unless tack welded or strapped to structural steel members.

C. Insulation shall be continuous at all wall and floor penetrations (except at fire dampers) and at hanger supports. Hanger supports for insulated piping shall be outside insulation; provide insulated inserts and sleeves at hangers. Insulation vapor barrier shall be sealed at all joints and seams, and at penetrations by appurtenances (damper rods, valve stems, etc.). Repair insulation at existing ductwork which has been reworked. Tears and punctures of vapor barrier shall be repaired and sealed. All piping and ductwork pressure testing shall be performed before insulation is applied.

D. Locate new equipment away from walls to structure and rated walls as necessary to provide required clearances for proper operation, maintenance and inspection. Locate new work (ducts, piping, & conduit) as required to maintain required clearances for proper operation, maintenance and inspection.

E. Install all new ductwork as high as possible, tight to structure above. Transition ductwork flat on top to maintain maximum bottom of duct elevation. Where ceiling cavities are higher than 48", duct systems shall be installed at 12" to 24" above ceiling height to facilitate access to mechanical units (PIU's/VAV's, HPU's, FCU's, etc.). Install all piping above ceiling as high as possible, with sloped piping as high as slope will allow. Raise any existing ductwork and piping as required to avoid conflict with new ceiling features and new light fixtures, field verify height of existing mechanical work. Route no piping through electrical rooms or computer equipment rooms, unless specifically serving that area alone. Where piping must be routed through electrical rooms or computer equipment rooms to serve them, route around (not over) electrical equipment or computer equipment and provide aux. drain pans below piping with moisture sensors to provide local audio and visual alarms and to send an alarm signal to the build energy management controls system.

F. Mount new thermostats/sensors and relocate existing at locations indicated on drawings. Thermostat mounting heights shall be 48" AFF per ADA accessibility requirements, unless noted otherwise on drawings, for different wall mounting heights or ceiling mounting. Thermostats shall not be mounted on ceilings without prior approval for specific locations where no wall mounting locations are available within the controlled unit's zone of influence. Thermostats located on exterior walls or columns shall have insulated sub-bases with the wall cavity space behind the thermostat insulated and sealed. Locate ceiling mounted thermostats out of throw of nearby air distribution devices. Thermostats mounted on RAG's shall be mounted on the bottom of the grille (within the room served) unless otherwise noted. Locate thermostats above light switches where shown in the immediate vicinity of switches. Do not locate thermostats in the same wall stud space as dimmers and rheostats. Verify exact location of thermostats with architect (refer to Architectural floor plans and furniture plans and Electrical lighting plans for coordination).

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PROJECT NO. 25.107 DRAWN BY CXB ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
MECHANICAL GENERAL

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
M-0.1

BUILDING SHELL CONSTRUCTION SET

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MECHANICAL SPECIFICATIONS CONT'D

G. Condensate drain lines shall be sized to match unit connection size (3/4" minimum) and as noted on plans, shall be trapped at the unit with a minimum 2" deep water seal, and shall be routed with a minimum slope of 1/8" per foot. Drain lines shall be terminated turned down above hub drains or floor drains on building interior; at roof drains, splash blocks or dry wells/French drains on building exterior; interior drains may be routed down in walls and below counters and terminated at the tailpiece of any sink or lavatory, should such connection be available (coordinate with Plumbing). At the Contractor's option, or where minimum slope cannot be maintained from the coil to the termination point, condensate drain pumps may be provided. Discharge from pump immediately to a high point and slope down to drain termination point. The Contractor shall be responsible for coordinating all requirements for drain pump installation (electrical connections, drain termination, Code compliance for ceiling plenum installations, etc.)

H. Flash all roof and exterior wall penetrations and seal water-tight. Provide wall sleeves for all wall penetrations. Provide roof curb by equipment manufacturer for all roof mounted equipment. Roof curbs shall be insulated, specifically sized to match the size and weight of the equipment supported, and designed to conform the NRCA Standards. All piping and wiring connections to roof mounted equipment shall connect through the bottom of the unit within the units' roof curb where units are offered with standard bottom connection options. Where equipment is offered with only side external connections, route connections up below unit, through the side of the roof curb (min. 8" above the roof) and seal curb penetration water tight. Where roof mounted equipment has no curb, provide a separate 12" high roof curb "pitch pocket" with curb cap and min. 4" overhang with drip edge on all sides for piping/wiring penetration through side of curb at 8" above roof. Seal curb penetrations leak-proof with silicon type, non-hardening sealant. Unprotected, direct penetrations through roof and standard pitch pockets without drip proof covers are not acceptable.

I. Support refrigerant, condensate and gas piping on building roof on pre-manufactured piping supports set on roof with flexible rubber or neoprene pads mounted under the supports to protect the roofing membrane. Supports shall be wide base, high density rigid closed-cell UV resistant polyethylene foam with unistrut clamping channel molded into and bonded to the top of the base, "Pipe Pier" by Erico or approved equivalent. As an alternate, pipe supports shall be heavy duty rigid molded polycarbonate resin pipe/conduit supports with wide, flat base and U-shaped pipe cradle or raised unistrut support; Miro Industries or approved equivalent. Clamp piping to supports. Supports shall be spaced at 8 ft. on center maximum and at all changes in direction.

J. Provide equipment pad for all roof mounted equipment. Pad shall be light weight concrete with wire mesh reinforcement, 4" thick and full size of equipment footprint. Remove roof ballast below pad footprint, install rubber pad directly on roof deck membrane, and set concrete pad on rubber pad.

K. Many areas of the ceilings will be left open to structure, therefore, much of the ductwork, piping, and conduit systems will be visible. All construction work that will be visible (not just directly above open ceiling areas, but also adjacent to them) shall be prepared to receive fog spray paint. Clean all visible insulated surfaces with spray cleanser and dry thoroughly. Clean all metal ductwork, piping, conduit, and equipment surfaces with de-greasing cleanser specifically manufactured to clean metal to receive paint, and dry all surfaces thoroughly. Do NOT paint over equipment nameplates, product data stickers, controls components, component access covers, fire alarm j-boxes, and sprinkler heads (cover all with masking tape prior to painting and remove after). Refer to Architectural RCP and MEP plans for work that will be visible and coordinate in field with actual conditions. Coordinate cleaning for completion immediately prior to spray painting so that no dust from recent rough construction activities accumulates on cleaned work.

HVAC CONTROLS

RTU/FCU/HPU: via wall mounted heating/cooling automatic changeover, programmable type thermostats. T'stats shall be 7 day programmable type with 4 independently adjustable heating and cooling "Occupied/Unoccupied" event settings per day; automatic changeover function with independent heating cooling setpoints and setpoint crossover protection; System OFF/ON(Auto) switch, and Fan ON/AUTO switch; battery backup to maintain programming for min. 2 days without power; 2 hour override button to switch to "Occupied" mode; locking cover with opening for override button access (with one key for all T'stat covers). Contractor shall coordinate with the Tenant and provide initial programming of all "Occupied" and "Unoccupied/Night Setback" event times and temperature setpoints.

RTU WITH GAS HEAT SCHEDULE

UNIT NUMBER	SERVICE	OUTDOOR AIR (CFM)	FAN DATA			DIRECT EXPANSION COOLING COIL				COMPRESSOR DATA		GAS HEAT			FILTER EFFICIENCY (%)	SINGLE POINT POWER CONNECTION		EER	SELECTION BASED ON	REMARKS
			CFM	EXTERNAL S.P. (IN. W.G.)	FAN MOTOR HP	NET SENSIBLE (MBH)	NET TOTAL (MBH)	EAT (°F) DB	EAT (°F) WB	NO.	NO. OF STAGES	GAS TYPE	RATING (MBH) INPUT	RATING (MBH) OUTPUT		VOLTS	PHASE			
RTU-1	SHOWROOM	800	4000	0.5	3.1	101	134.1	80	67	2	4	NG	240	194.4	MERV 8	460	3	11	TRANE YSK120	(1)(2)(3)(4)(5)(6)(7)(8)
RTU-2	SHOWROOM	800	4000	0.5	3.1	101	134.1	80	67	2	4	NG	240	194.4	MERV 8	460	3	11	TRANE YSK120	(1)(2)(3)(4)(5)(6)(7)(8)
RTU-3	SHOWROOM	800	4000	0.5	3.1	101	134.1	80	67	2	4	NG	240	194.4	MERV 8	460	3	11	TRANE YSK120	(1)(2)(3)(4)(5)(6)(7)(8)
RTU-4	BOH	125	1200	0.5	0.75	29.3	40.1	80	67	1	1	NG	120	97.2	MERV 8	460	3	12	TRANE YSK036	(1)(2)(3)(4)(5)(6)

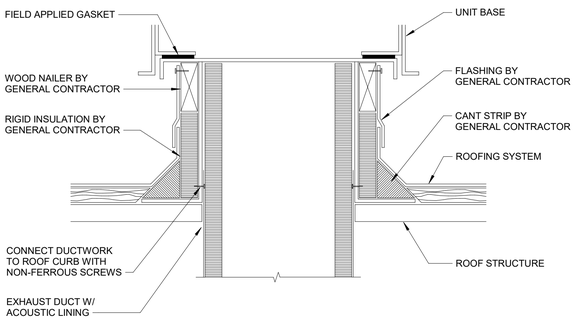
(1) PROVIDE UNIT MANUFACTURERS 14" ROOF CURB.
(2) PROVIDE ENTHALPY CONTROLLED OUTSIDE AIR ECONOMIZER WITH BAROMETRIC RELIEF.
(3) PROVIDE POWERED CONVENIENCE OUTLET.
(4) PROVIDE HAIL GUARD
(5) PROVIDE 7-DAY DIGITAL, PROGRAMMABLE THERMOSTAT WITH LOCK-OUT CAPABILITY.
(6) OR EQUAL BY CARRIER, JCI, DAIKIN, AMERICAN STANDARD, LENNOX.
(7) PROVIDE SMOKE DETECTOR IN SUPPLY & RETURN DUCT TO SHUT DOWN UNIT UPON SMOKE DETECTION.
(8) PROVIDE UNIT WITH HOT GAS REHEAT.

VENTILATION (OUTSIDE AIR)

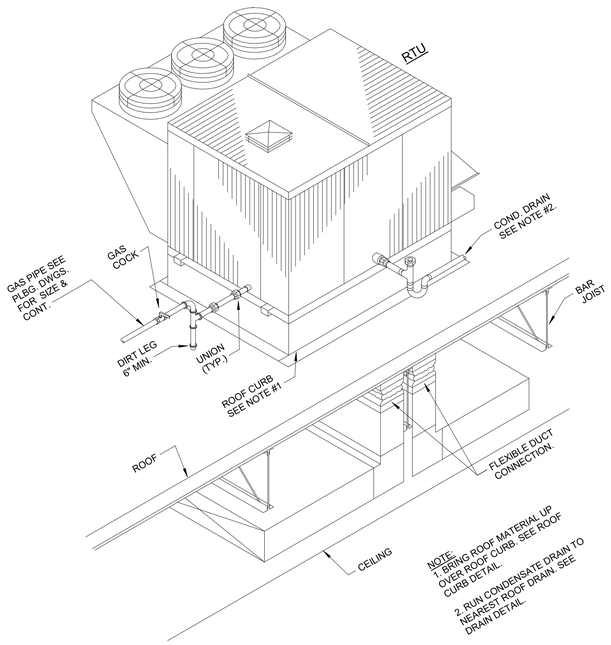
(PER IMC AND ASHRAE STANDARD 62.1 AND PERTINENT STATE AMMENDMENTS AS ADOPTED BY THE LOCAL JURISDICTION)

ROOM NAME	AREA	MAX OCCUPANCY	AREA OUTDOOR AIR RATE (Ra)	PEOPLE OUTDOOR AIR RATE (Rp)	EFFECTIVENESS	OA REQUIRED	ASHRAE 62.1 OCCUPANCY
RTU-1							
SALES FLOOR	3120 SF	32	0.12	8	0.8	788	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS
	3120 SF	32				788	
RTU-2							
SALES FLOOR	4049 SF	20	0.12	8	0.8	807	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS
	4049 SF	20				807	
RTU-3							
SALES FLOOR	3876 SF	23	0.12	8	0.8	811	RETAIL STORES, SALES FLOORS, AND SHOWROOM FLOORS
	3876 SF	23				811	
RTU-4							
BOH	1303 SF	2	0.06	5	0.8	110	OFFICE - OFFICE SPACE
	1303 SF	2				110	

(1) MAXIMUM OCCUPANCY BASED ON ARCHITECTURAL FURNITURE LAYOUTS.
(2) PERIMETER ZONES REQUIRE HEATING AND OUTSIDE AIR IS CALCULATED WITH A ZONE AIR DISTRIBUTION EFFECTIVENESS OF 0.8, PER ASHRAE.
(3) CONTRACTOR SHALL COORDINATE WITH THE LANDLORD TO VERIFY/ADJUST THE OUTSIDE AIR MINIMUM SETTING OF 800 CFM FOR RTU-1, RTU-2, AND RTU-3, AND 100 CFM FOR RTU-4 .



1 M-0.2 EQUIPMENT ROOF CURB DETAIL
NOT TO SCALE



2 M-0.2 ROOFTOP UNIT (GAS) DETAIL
NOT TO SCALE

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: La-Z-Boy La Crosse
Location: La Crosse, Wisconsin
Climate Zone: 5a
Project Type: New Construction

Construction Site:
3720 State Hwy. 16
La Crosse, Wisconsin 54601

Owner/Agent:
La-Z-Boy

Designer/Contractor:
Cameron Barker
Salas O'Brien

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

1 RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 240 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 134 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 14.60 IEER, Required Part Load Efficiency = 14.60 IEER

1 RTU-2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 240 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 134 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 14.60 IEER, Required Part Load Efficiency = 14.60 IEER

1 RTU-3 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 240 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 81.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 134 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 14.60 IEER, Required Part Load Efficiency = 14.60 IEER

1 RTU-4 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 40 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 13.40 SEER2, Required Efficiency = 13.40 SEER2
Proposed Part Load Efficiency = 14.60 , Required Part Load Efficiency = 0.00

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Cameron Barker - Mechanical Designer — Cameron Barker — 10-15-2025
Name - Title — Signature — Date

Project Title: La-Z-Boy La Crosse
Data filename:
Report date: 10/15/25
Page 4 of 12

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PROJECT NO. 25.107 DRAWN BY CXB ORIG. ISSUE DATE 07.15.2025
FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
MECHANICAL SCHEDULES & DETAILS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
M-0.2

BUILDING SHELL CONSTRUCTION SET

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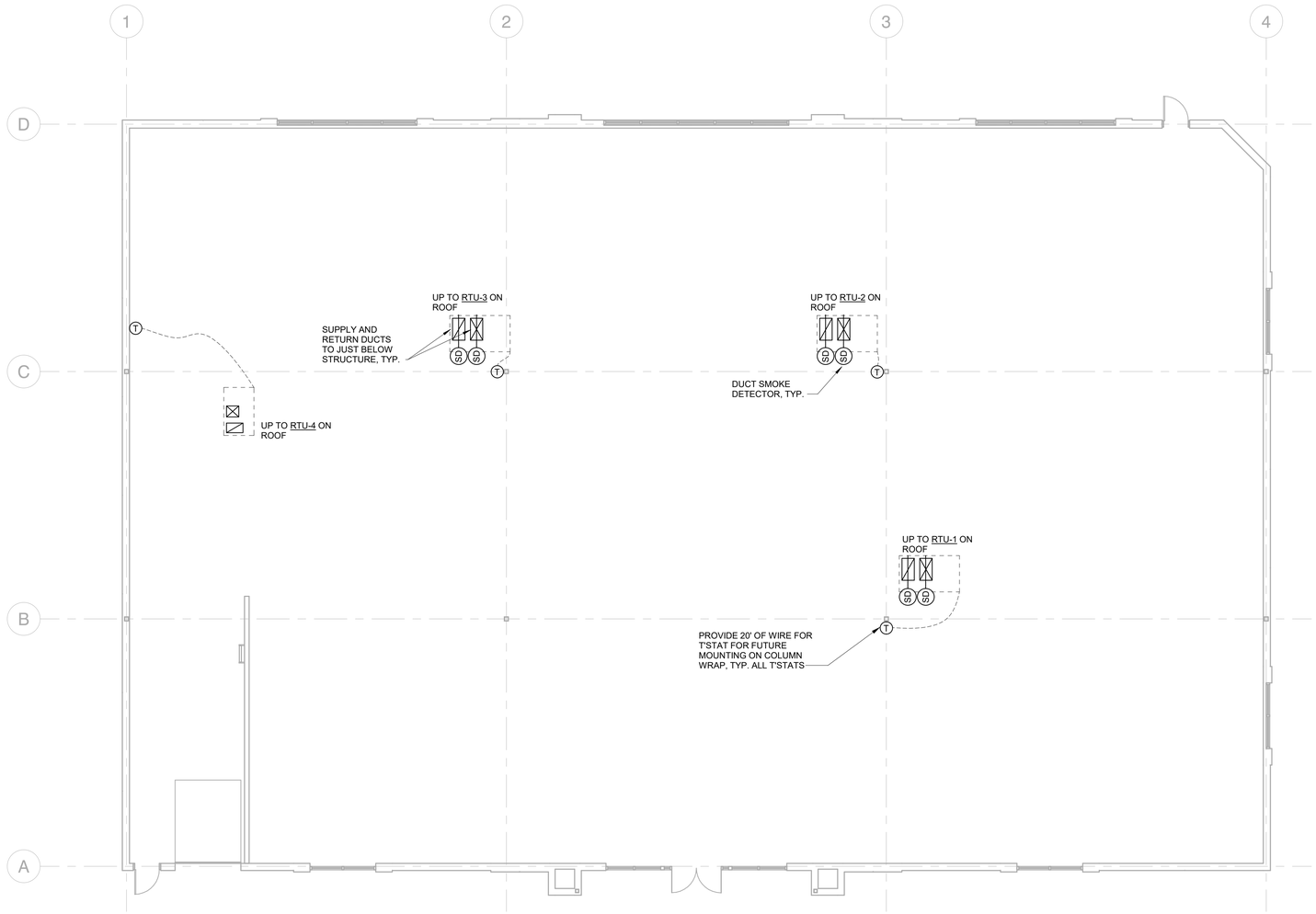

1 M-1.1 MECHANICAL FIRST FLOOR PLAN
1/8" = 1'-0"

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ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
MECHANICAL NEW WORK PLAN

STORE NAME:
LA-Z-BOY - LA CROSSE

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1 / M-2.1 MECHANICAL ROOF PLAN
1/8" = 1'-0"

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SHEET TITLE:
MECHANICAL ROOF PLAN

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
M-2.1

BUILDING SHELL CONSTRUCTION SET

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ELECTRICAL GENERAL NOTES

1. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. REFER TO THE DRAWINGS OF THE RESPECTIVE SYSTEMS PRIOR TO SUBMISSION OF BIDS FOR ADDITIONAL WORK WHICH MAY BE REQUIRED AS PART OF THIS WORK. NO ALLOWANCES WILL BE MADE FOR THE LACK OF COORDINATION BETWEEN DISCIPLINES OR SYSTEMS AND EQUIPMENT.
2. ATTENTION IS CALLED TO THE FACT THAT THIS IS A RENOVATION WITHIN AN EXISTING BUILDING. WHEN THE WORK IS FINISHED, THE ELECTRICAL INSTALLATION SHALL BE COMPLETE IN EVERY RESPECT, COMPLETELY INTEGRATED WITH ALL THE EXISTING ELECTRICAL SYSTEMS. ALL EXISTING ELECTRICAL WORK REQUIRED TO REMAIN IN USE DURING AND/OR AFTER THE COMPLETION OF THE WORK SHALL BE EXTENDED, REROUTED, REPLACED, RECONNECTED OR OTHERWISE TO FIT INTO THE RENOVATED AREA AND LEFT IN SAFE WORKING ORDER. CONTRACTOR TO VERIFY LOAD OF EXISTING CIRCUITS. REMOVE ALL ELECTRICAL EQUIPMENT AND MATERIAL WHICH IS IN THE AFFECTED SPACE AND WILL NOT BE RE-USED BY THE RENOVATION.
3. THE INSTALLATION SHALL MATCH EXISTING CONDITIONS WITH RESPECT TO TYPE, COLOR AND LOCATION OF EQUIPMENT.
4. THE WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DOCUMENTS FOR THE EXACT LOCATION OF LIGHT FIXTURES, EQUIPMENT, DEVICES, ETC. TO ASSURE PROPER PLACEMENT OF SAID DEVICES AND EQUIPMENT. SWITCHES SHALL BE PLACED ON LATCH SIDE OF ALL DOOR OPENINGS. WHERE A CONFLICT EXISTS BETWEEN ANY TWO DOCUMENTS, NOTIFY THE ARCHITECT PRIOR TO ANY INSTALLATION FOR RESOLUTION.
5. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT BEING INSTALLED PRIOR TO INSTALLATION TO ASSURE THAT THE FEEDER, DISCONNECT, STARTER, OVERCURRENT PROTECTION, ETC. MATCHES THE ACTUAL NAMEPLATE DATA AS SUPPLIED BY THE MANUFACTURER. FULLY COORDINATE EQUIPMENT TO BE PROVIDED TO ASSURE NO ADDITIONAL COSTS TO THE CONTRACT.
6. CONDUIT HOMERUNS MAY BE COMBINED TO INCLUDE UP TO FOUR (4) CIRCUITS. PROVIDE QUANTITY OF NEUTRALS INDICATED FOR EACH CIRCUIT.
7. SPECIFIC REQUIREMENTS REGARDING MATERIALS, WORKMANSHIP AND THE WORK TO BE DONE ARE COVERED BY THE SPECIFICATIONS WHICH COMPLEMENT THE PLANS. WORK CALLED FOR BY THE SPECIFICATIONS OR THE PLANS IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE PLANS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS OF THE TWO SHALL APPLY UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
8. COORDINATE ALL CUSTOM RECEPTACLES AND CIRCUITS WITH EQUIPMENT FURNISHED BY TENANT. PROVIDE OUTLETS COMPATIBLE WITH EQUIPMENT REQUIREMENTS.
9. PROVIDE FIRE ALARM CONTROL PANEL AT LOCATION SHOWN IN ACCORDANCE WITH NFPA 72. PROVIDE ADEQUATE ALARM RECEIVING AND OUTPUT MODULES TO ACCOMMODATE DEVICES SHOWN ON PLANS. ALL COMPONENTS OF THE FIRE ALARM SYSTEM SHALL CONFORM TO ADA GUIDELINES.
10. ALL ELECTRICAL EQUIPMENT SHALL CONFORM TO BASE BUILDING STANDARD. PROVIDE CIRCUIT BREAKERS AS REQUIRED. FIELD SURVEY EXISTING EQUIPMENT AND PROVISIONS. FULLY COORDINATE EQUIPMENT TO BE PROVIDED TO ASSURE NO ADDITIONAL COSTS TO THE CONTRACT.
11. SUPPORT ALL ELECTRICAL CONDUIT, RACEWAY, OUTLET AND JUNCTION BOXES VIA THREADED ROD OR DEDICATED INDEPENDENT #12 GA GALVANIZED TIE WIRE. DO NOT SECURE ANY ITEM EXCEPT LIGHT FIXTURES TO CEILING CONSTRUCTION OR SUPPORT WIRES. SUPPORT MULTIPLE CONDUITS FROM ADDITIONAL WIRES COMPLYING WITH NEC ART. 300.11.
12. ALL PANELS AFFECTED BY THIS FITUP SHALL HAVE CORRECT BAKELITE NAMEPLATE ON THE COVER, LABELED CIRCUIT NUMBERING AND UPDATED, TYPEWRITTEN PANELBOARD DIRECTORIES. DO NOT SIMPLY USE COPIES OF DESIGN PANEL SCHEDULES FROM DRAWINGS.
13. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED BY BRANCH CIRCUITS IN ALL EXISTING PANELS. REUSE ALL EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. FULLY COORDINATE EQUIPMENT TO BE PROVIDED TO ASSURE NO ADDITIONAL COSTS TO THE CONTRACT.
14. CONTRACTOR SHALL CONFIRM THAT ALL EXISTING EQUIPMENT BEING REUSED IS OPERATIONAL.CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION IF EXISTING CONDITIONS PROHIBIT USE OF EXISTING EQUIPMENT AS DESIGNED HEREIN. FULLY COORDINATE EQUIPMENT TO BE PROVIDED TO ASSURE NO ADDITIONAL COSTS TO THE CONTRACT.
15. ALL CONDUIT PENETRATIONS OF FIRE RATED WALLS, FLOORS, AND PARTITIONS SHALL BE FIRESTOPPED WITH A U.L. RECOGNIZED PRODUCT RESTORING THE INTEGRITY OF THE BARRIER PENETRATED. UTILIZE NELSON "FSP" FIRESTOP PUTTY, "PCS" PIPE CHOKE SYSTEM, OR "CLK" FIRESTOP CAULK TO PROVIDE A U.L. LISTED ASSEMBLY, OR APPROVED ALTERNATE.
16. CONTRACTOR SHALL TEST EACH AND EVERY WIRING DEVICE AND LIGHT FIXTURE FOR CORRECT OPERATION AND DOCUMENT PROJECT VOLTAGE READINGS. PROVIDE COPY OF LIGHTING AND POWER FLOOR PLANS WITH DEVICES AND FIXTURES HIGHLIGHTED TO INDICATE SUCCESSFUL TESTING AND OPERATION. SUBMIT TO THE ARCHITECT PRIOR TO REQUEST FOR FINAL CONSTRUCTION REVIEW.
17. PRIOR TO SUBMISSION OF BIDS, CONTRACTOR SHALL REVIEW QUANTITY OF EXISTING CIRCUITS AVAILABLE AS PART OF THE SITE SURVEY REQUIRED BY 1.05 B.
18. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF ALL FLOOR CORES SHOWN ON PLANS. LOCATIONS SHALL BE COORDINATED WITH STRUCTURE BELOW. NOTIFY ARCHITECT OF ANY FIELD CONFLICTS FOR DIRECTION.
19. ANY NEW DEVICE SHOWN THAT OCCURS WITHIN 1'-0" OF AN EXISTING DEVICE SHALL BE EXISTING TO REMAIN.
20. REFER TO EQUIPMENT CUT SHEETS AND MANUFACTURER'S DATA FOR ROUGH IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS OF ALL EQUIPMENT.
21. CONTRACTOR SHALL COORDINATE ELEVATIONS AND PIPING SYSTEM SLOPES SUCH THAT DUCTWORK, PIPING, RACEWAY, CABLE TRAY, AND ASSOCIATED EQUIPMENT IS INSTALLED AT UNIFORM ELEVATIONS WITH MINIMAL OFFSET. PROVIDE COORDINATION DRAWING TO ENGINEER FOR REVIEW PRIOR TO EQUIPMENT ORDERS AND ROUGH-IN.
22. COORDINATE WITH SPECIALTY SYSTEMS VENDORS TO PROVIDE RACEWAY AND CABLING, POWER AND CONTROL INTERFACES AS REQUIRED FOR COMPLETE, OPERABLE SYSTEMS.
23. ALL ELECTRICAL EQUIPMENT SHALL BE MARKED WITH ARC FLASH HAZARD WARNING LABELS IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 110.16.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HARDWIRED CONNECTIONS TO TENANT'S SYSTEMS FURNITURE. EXTEND AND CONNECT FURNITURE SYSTEM PIGTAIL FROM BASE FEED LOCATION TO FURNITURE SYSTEM POWER RAIL. ALL NEUTRALS SERVING FURNITURE SYSTEM SHALL BE #10.
25. AFTER INSTALLATION OF ALL NEW DISTRIBUTION EQUIPMENT, THE CONTRACTOR SHALL CONDUCT A FULL SHORT CIRCUIT COORDINATION STUDY TO CONFIRM REQUIRED CIRCUIT BREAKER ADJUSTABLE SETTINGS AND FUSE RATINGS FOR ALL EQUIPMENT TO BE PROVIDED. PROVIDE REPORT INDICATING RECOMMENDED SETTINGS AND TRIP CURVES.
26. AT ALL CABLE TRAY WALL PENETRATIONS SHOWN ON "A" SERIES DRAWINGS, PROVIDE NELSON "CPS" COMPOSITE SHEET FIRESTOP WITH "PLW" FIRESTOP PILLOWS TO RESTORE RATING OF BARRIER PENETRATED. PROVIDE A U.L. LISTED ASSEMBLY OR APPROVED ALTERNATE.

SHEET LIST

SHEET NUMBER	SHEET NAME
E-0.1	ELECTRICAL GENERAL
E-0.2	ELECTRICAL SPECIFICATIONS
E-0.3	ELECTRICAL SPECIFICATIONS
E-0.4	ELECTRICAL SPECIFICATIONS
E-0.5	ELECTRICAL SPECIFICATIONS
E-1.1	LIGHTING PLAN
E-2.1	ELECTRICAL PLAN
E-2.2	ELECTRICAL ROOF PLAN
E-3.1	ELECTRICAL SCHEDULES
E-4.1	COMPLIANCE REPORT

ELECTRICAL GENERAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION / SPECIFICATIONS	MOUNTING HEIGHT UNO
X-1,3,5	ARROWHEAD INDICATES HOMERUN. X-1, 3, AND 5 ADJACENT TO HOMERUN ARROWHEADS INDICATES HOMERUN TO PANEL X, CIRCUIT NUMBERS 1, 3, AND 5.	
3,5	INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 AND 5 OF PANEL X.	
	MARKS ACROSS RACEWAY SYMBOLS INDICATE THE NUMBER OF #12 CONDUCTORS, UNLESS OTHERWISE NOTED. NO MARKS INDICATE TWO #12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED.	
	RACEWAY INSTALLED CONCEALED IN WALL OR ABOVE CEILING / CONCEALED BELOW FLOOR.	
(J)/(HJ)/[J]	JUNCTION BOX - CEILING MOUNTED / WALL MOUNTED / FLOOR MOUNTED	
	TELEPHONE BACKBOARD	
	FUSIBLE / NON-FUSED DISCONNECT SWITCH	
[F]	FIRE ALARM AUDIO/VISUAL SIGNALING DEVICE - NOTE 4	80" TO BOTTOM
[F]	FIRE ALARM AUDIO/VISUAL SIGNALING DEVICE - NOTE 4	80" TO BOTTOM
(F)	CEILING MOUNTED FIRE ALARM AUDIO/VISUAL SIGNALING DEVICE - NOTE 4	
[F]	FIRE ALARM PULLSTATION DEVICE - NOTE 4	46"
(DD)	DUCT SMOKE DETECTOR	

ELECTRICAL GENERAL SYMBOLS LEGEND NOTES:

1. UNLESS NOTED OTHERWISE, MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE OR OUTLET ABOVE GRADE OR FINISHED FLOOR.
2. ALL SYMBOLS INDICATED IN THE LEGEND MAY NOT NECESSARILY BE USED ON THE PLANS.
3. THE LETTER "E" ADJACENT TO ANY SYMBOL INDICATES THAT IT IS EXISTING TO REMAIN. THE LETTER "ER" INDICATES EXISTING TO BE RELOCATED.
4. EXTEND AND CONNECT TO EXISTING BUILDING FIRE ALARM SYSTEM. DEVICE MOUNTING HEIGHT SHALL COMPLY WITH NFPA 72. SEE GN 9/E-1.

ELECTRICAL POWER SYMBOLS LEGEND

SYMBOL	DESCRIPTION / SPECIFICATIONS	MOUNTING HEIGHT UNO
	DUPLEX RECEPTACLE OUTLET / HUBBELL #5262	18"
WP	WEATHERPROOF (WP) DUPLEX RECEPTACLE OUTLET / HUBBELL #5262 WITH WP COVER 3R RATED	18"
	QUADRUPLEX RECEPTACLE OUTLET / HUBBELL #5262	18"
D	DUPLEX RECEPTACLE OUTLET ON DEDICATED CIRCUIT / HUBBELL #5362	18"
D	QUADRUPLEX RECEPTACLE OUTLET ON DEDICATED CIRCUIT / HUBBELL #5362	18"
	GFCI DUPLEX RECEPTACLE OUTLET / HUBBELL #GF5262	18"
	HALF SWITCHED RECEPTACLE OUTLET	18"
	FULL SWITCHED RECEPTACLE OUTLET	18"
IG	ISOLATED GROUND TYPE DUPLEX RECEPTACLE (ORANGE) / HUBBELL #IG5262	18"
U	DUPLEX RECEPTACLE W/ USB TYPE A AND C PORTS / HUBBELL #USB15AC5X	18"
DU	DUPLEX RECEPTACLE W/ USB TYPE A AND C PORTS ON DEDICATED CIRCUIT / HUBBELL #USB20AC5X	18"
	SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT TO BE CONNECTED. - NOTE 7	18"
K(P)	RECESSED OUTLET BOX (4" SQ) WITH SINGLE GANG PLASTER RING AND 1/2" KO COVER PLATE - TERMINATE FURNITURE SYSTEM PIGTAIL.	18"
K(C)	RECESSED OUTLET BOX (4" SQ) WITH SINGLE GANG PLASTER RING AND 1" KO COVER PLATE FOR DATA/TELECOM CABLING BY OTHERS. PROVIDE TWO (2) EACH 3/4"C TO 6" ABOVE CEILING.	18"
[TV]	TELEVISION OUTLET - NOTE 6 / LEGRAND #TV2MW	
[PC]	POKE-THRU FITTING FOR POWER / COMM FURNITURE FEED - NOTE 5 / WIREMOLD #4FFATC	
	FLUSH POKE-THRU DUPLEX DEVICE WITH DATA AND/OR AV - NOTE 5 / WIREMOLD #AV3 SERIES	
◇	POWER POLE BY TENANT	
▬	PANEL AS NOTED	

ELECTRICAL SYMBOLS LEGEND NOTES:

1. UNLESS NOTED OTHERWISE, MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE OR OUTLET ABOVE GRADE OR FINISHED FLOOR.
2. ALL SYMBOLS INDICATED IN THE LEGEND MAY NOT NECESSARILY BE USED ON THE PLANS.
3. THE LETTER "E" ADJACENT TO ANY SYMBOL INDICATES THAT IT IS EXISTING TO REMAIN. THE LETTER "ER" INDICATES EXISTING TO BE RELOCATED.
4. EXTEND AND CONNECT TO EXISTING BUILDING FIRE ALARM SYSTEM. DEVICE MOUNTING HEIGHT SHALL COMPLY WITH NFPA 72. SEE GN 9/E-1.
5. PROVIDE 3/4"C FOR POWER, 1-1/4"C FOR COMMUNICATIONS.
6. PROVIDE AND INSTALL RECESSED 2-GANG TV BOX WITH (1) DUPLEX RECEPTACLE FOR TENANT PROVIDED, WALL MOUNTED TELEVISION. PROVIDE 1-1/4"C FOR COMMUNICATIONS, EXTENDING FROM TV BOX TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE INSULATING BUSHING AND PULL STRING FOR USE BY TENANT'S LOW VOLTAGE VENDOR.
7. PROVIDE NEMA RATED OUTLET BASED AS SHOWN ON DRAWINGS.
8. REFER TO PANEL SCHEDULES AND RISER DIAGRAM.

TELECOMMUNICATION SYMBOLS LEGEND

SYMBOL	DESCRIPTION / SPECIFICATIONS	MOUNTING HEIGHT UNO
▼	TELEPHONE OUTLET / SINGLE GANG - NOTE 4	18"
◇	COMBINATION DATA/TELEPHONE OUTLET - NOTE 4	18"
▽	COMBINATION DATA/TEL OUTLET IN SYSTEM FURNITURE - NOTE 4	18"
[CR]	BADGE READER BY TENANT'S VENDOR	18"

ELECTRICAL SYMBOLS LEGEND NOTES:

1. UNLESS NOTED OTHERWISE, MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE OR OUTLET ABOVE GRADE OR FINISHED FLOOR.
2. ALL SYMBOLS INDICATED IN THE LEGEND MAY NOT NECESSARILY BE USED ON THE PLANS.
3. THE LETTER "E" ADJACENT TO ANY SYMBOL INDICATES THAT IT IS EXISTING TO REMAIN. THE LETTER "ER" INDICATES EXISTING TO BE RELOCATED.
4. REFER TO SPECIFICATION 2.07A.

LIGHTING CONTROL LEGEND

SYMBOL	DESCRIPTION / SPECIFICATIONS	HEIGHT
$	BASIC SINGLE-POLE, SINGLE-THROW SWITCH / ABOVE-COUNTER	46"
$D	WALL-MOUNTED DIMMER SWITCH	46"
$3/$4	THREE-WAY / FOUR-WAY SWITCH	46"
$S	WATTSTOPPER #DW-301 DUAL TECH WALL SWITCH	46"
$SD	WATTSTOPPER #DW-311 DUAL TECH DIMMABLE WALL SWITCH	46"
	WATTSTOPPER #WT-2250/BZ-50 TWO WAY CEILING SENSOR	
(OS)	WATTSTOPPER #WT-2200/BZ-50 DUAL TECH TWO WAY CEILING SENSOR	
(DS)	WATTSTOPPER #LMLS-500-U CEILING PHOTO SENSOR	

GENERAL NOTES

1. COORDINATE QUANTITY AND LOCATION OF SENSORS, SWITCHPACKS, AND/OR ROOM CONTROLLERS WITH MANUFACTURER'S FACTORY REPRESENTATIVE.
2. PROVIDE SUBMITTAL LAYOUT DRAWINGS FROM SUCCESSFUL BIDDER.
3. OCCUPANCY SENSOR LOCATIONS AS SHOWN ON THE LIGHTING DRAWINGS.
4. QUANTITIES AND LOCATIONS OF ROOM CONTROLLERS AND SWITCHPACKS SHALL BE DETERMINED BY THE CONTRACTOR FOR A COMPLETE AND OPERABLE SYSTEM.
5. ALL NEW LED FIXTURES SHALL BE PROVIDED WITH 0-10V DIMMING. CONTROL DEVICES SHALL BE COMPATIBLE.

OCCUPANCY SENSOR NOTES

1. OCCUPANCY SENSOR CONTROLS SHALL BE MANUAL ON (VACANCY MODE OR CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOTE MORE THAN 50% OUTPUT.
2. PROVIDE ROOM CONTROLLER(S) CAPABLE OF RECEIVING INPUT FROM SWITCH AND OCCUPANCY SENSOR.
3. ALL SENSORS SHOULD BE SET AT THE CODE-MAXIMUM SETTING OF 30 MINUTES. DISABLE AUTO ADAPTING TIME DELAY, WHERE APPLICABLE.
4. ALL ENCLOSED OFFICES AND ROOMS SHALL HAVE OCCUPANCY SENSOR COVERAGE.
5. ALL SENSOR WALL SWITCHES SHALL FUNCTION AS VACANCY SENSORS (MANUAL-ON, AUTO-OFF).
6. DEVICES TO BE SHIPPED FROM THE FACTORY WITH THE CORRECT TIME DELAY (30 MINUTES) AND VACANCY MODE SETTINGS.

COMMISSIONING NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING LIGHTING SYSTEM FUNCTIONAL TESTING IN ACCORDANCE WITH THE REQUIREMENTS OF IECC C408.3. AUTOMATIC LIGHT REDUCTIONS CONTROLS (VIA OCCUPANCY SENSORS AND/OR TIME-SWITCH CONTROLS) AND DAYLIGHT RESPONSIVE CONTROLS SHALL BE TESTED AS REQUIRED. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO CERTIFY THAT THE INSTALLED LIGHTING CONTROLS MEET THE REQUIREMENTS OF C405.

LIGHT FIXTURE SCHEDULE

ITEM	DESCRIPTION	VOLTAGE	WATTAGE

GENERAL NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS AND SITE PHOTOMETRIC PLANS FOR FULL SPECIFICATION.
2. ALL EMERGENCY BATTERIES SHALL BE MINIMUM 1100 LUMENS, 90 MINUTES.

ELECTRICAL-MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM#	DESCRIPTION	WIRING	VOLTAGE/PHASE	HP/FLA/KW	PANEL	CIRCUIT #	DISCONNECT/FUSES	LOCATION	NOTES
RTU-1	ROOF TOP UNIT	3#8, #10G, 3/4"C	480/3	30 MCA	H1	9,11,13	60A/3P/NF/NEMA 3R	SHOWROOM ROOF	1,2,3
RTU-2	ROOF TOP UNIT	3#8, #10G, 3/4"C	480/3	30 MCA	H1	15,17,19	60A/3P/NF/NEMA 3R	SHOWROOM ROOF	1,2,3
RTU-3	ROOF TOP UNIT	3#8, #10G, 3/4"C	480/3	30 MCA	H1	2,4,6	60A/3P/NF/NEMA 3R	SHOWROOM ROOF	1,2,3
RTU-4	ROOF TOP UNIT	3#12, #12G, 1/2"C	480/3	10 MCA	H1	8,10,12	30A/3P/NF/NEMA 3R	BACK OF HOUSE ROOF	1,2,3

NOTES:
1. INSTALL OVERCURRENT PROTECTION AND BRANCH CIRCUITS PER UL LISTED REQUIREMENTS FOR EQUIPMENT SERVED. REFER TO EQUIPMENT CUT SHEETS AND MANUFACTURER'S DATA FOR ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS FOR ALL EQUIPMENT. PROVIDE DISCONNECT SWITCH (NON-FUSED, UNLESS NOTED OTHERWISE). COORDINATE EXACT NAMEPLATE DATA OF EQUIPMENT TO BE USED WITH MECHANICAL CONTRACTOR. PROVIDE HACR CIRCUIT BREAKER OR FUSIBLE SWITCH FOR ALL MECHANICAL EQUIPMENT.
2. DISCONNECT PROVIDED WITH EQUIPMENT OR BY MECHANICAL CONTRACTOR.
3. PROVIDE CONVENIENCE RECEPTACLE WITHIN 25FT OF UNIT. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT. PROVIDE WEATHERPROOF COVER AND GFCI PROTECTION FOR EXTERIOR RECEPTACLES.

Tom Evans

WISCONSIN — THOMAS L EVANS E-105195 ATLANTA GA — PROFESSIONAL ENGINEER

10/16/2025

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PROJECT NO. 25.107 DRAWN BY KMM ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ELECTRICAL GENERAL

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
E-0.1

BUILDING SHELL CONSTRUCTION SET

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ELECTRICAL SPECIFICATIONS

SECTION 26 00 00
ELECTRICAL GENERAL

PART 1 - GENERAL

1.1 SCOPE:

A. This Division and the accompanying electrical drawings cover furnishing all labor, equipment and materials and performing all operations in connection with the installation of a complete and operational electrical system.
B. There are many interfaces between the work involved with this Division and the work in other Divisions, particularly with Division 23. Be aware of the responsibilities at the interfaces. The exact locations of apparatus, fixtures, equipment and raceways shall be ascertained from all concerned and the work shall be installed accordingly. In addition, coordinate with all equipment suppliers and other trades to verify the actual installation requirements prior to rough-ins.
C. The plans and specifications are considered cooperative and complimentary. Where one contradicts the other the specifications shall govern. Contact the Architect/Engineer for clarification prior to any installation.
D. All applicable portions of the General and Specific Conditions are included herein by reference.

1.2 DEFINITIONS:

A. Install: Receive, store, place, fix in position, secure, anchor, etc., including necessary appurtenances and labor so the equipment or installation will function as specified and intended.
B. Furnish: Purchase and supply equipment and components, including shipping and receiving.
C. Provide: Furnish, install, connect, test, demonstrate and leave operational.
D. Wiring: Wire or cable installed in raceway with all required boxes, fittings, connectors, etc.
E. Work: Materials completely installed, including the labor involved.
F. Or approved equal: Equal in type, design, quality and appearance, as determined by the Architect/Engineer.
G. Raceway: Galvanized rigid steel conduit (GRC), electrical metallic tubing (EMT), intermediate metal conduit (IMC), schedule 40 Polyvinyl Chloride (PVC), flexible steel (FLX), sheathed flexible steel (SLT), code gauge wireway (WW).

1.3 CODES AND REGULATIONS:

A. All work shall comply with all local laws, ordinances and regulations applicable to the electrical and fire alarm/life safety system installation, NFPA, OSHA, ANSI, FBC, municipal ordinances governing electrical work, and with the requirements of the 2017 NEC.
B. Where different sections of any of the aforementioned codes and regulations, the specifications or the plans require different materials, methods of construction, or other requirements, the most restrictive or stringent shall govern. In any conflict between a general provision and a special provision, the special provision shall govern.
C. Obtain all permits and licenses, and pay all fees as required for execution of the Contract. Arrange for necessary inspections required by the Architect, city, county, state and other local authorities having jurisdiction (LAHJ) and present certificates of approval to the Architect or his designated representative.
D. Under no circumstances will asbestos, or asbestos related materials, be allowed on this project.
E. Communicate with all required utility offices to meet utility schedules and regulations. Coordinate the local utility requirements with the requirements of these contract documents. Should conflicts arise, notify the Architect /Engineer immediately. Acquire services to avoid project delays. Conform to regulations of the local utility company with respect to metering, service entrance and service access.

1.4 SITE VISIT:

A. All parties shall visit the site and thoroughly familiarize themselves with the local conditions and existing conditions which may affect the cost of the Work prior to any project activity or submission of bids.
B. Where work under this Division requires extension, relocation, reconnection or modifications to the existing equipment or systems, the existing equipment or systems shall be restored to their original condition prior to completion of this Project.
C. No allowances will be made for lack of knowledge of existing job conditions which could reasonably be identified during site visit.
D. Verify the service entrance voltage and short circuit contribution with the serving power utility and provide written confirmation of same to the Architect prior to submitting shop drawings or ordering any materials for use in the building served. Provide service entrance equipment fully rated to interrupt the available fault current from the serving utility.

1.5 DRAWINGS AND SPECIFICATIONS:

A. The Electrical Drawings are diagrammatic, and are not intended to show the exact location of raceways, outlets, boxes, bends, sleeves, fire sealant, couplings or other such elements except where dimensions are noted. Provide all required offsets, extensions or pull boxes required for a fully coordinated and operational system.
B. The Drawings and Specifications shall both be considered as part of the Contract. Any work or material shown in one and omitted in the other, or which may fairly be implied by both or either, shall be provided in order to give a complete job.
C. Should conflicts exist between the Drawings and Specifications, notify the Architect/Engineer for clarification prior to installation.
D. Refer to the Architectural (Interiors), Structural, Mechanical, Civil, and Kitchen plans in conjunction with other project construction and shop drawings for dimensions, and properly fit the work to conform to the details of building construction.
E. Review the drawings for door swings, cabinets, millwork, counters and other built-in equipment. Coordinate installation of the electrical equipment with structural systems and mechanical systems such that full maintenance access is provided.
F. The right is reserved to shift any switch, receptacle, ceiling outlet or other outlet which has been roughed-in a maximum of 10'-0" from its location as shown before it is permanently installed, without incurring additions to the Contract in time or cost. In addition, refer to the Architectural Drawings for exact location of devices and equipment.
G. All conduit and wiring shown on the Electrical Drawings shall be provided under this Division regardless of its function.
H. Review the drawings and specifications provided for other systems such as Elevator Equipment, Sound System, Computer, Landscape, etc., for additional work which may be required under this Division. Provide service to and make connections to all such equipment requiring electrical service.
I. Equipment configuration is based upon one manufacturer's product. Where the equipment selected by the Contractor for use on this Project differs from the configuration shown, the Contractor shall be responsible for coordinating space requirements, connection arrangements, interfaces with mechanical and plumbing equipment and all other affected trades and providing access for future maintenance and repair. Submit proposed revisions for approval by the Architect.

1.6 DEVIATIONS:

A. No deviations from the drawings and specifications shall be made without the full knowledge and consent of the Architect.
B. If it is found that existing conditions make desirable a modification in requirements covering any particular item, report such item to the Architect for their review and instructions.

1.7 EQUIPMENT CONNECTIONS:

A. The horsepower, wattage (or amperes) of mechanical equipment indicated is the estimated requirement of equipment furnished under another Division. All wiring, protective devices and disconnect switches shall be of the voltage, size and ampacity required for the actual equipment installed, when equipment varies from that specified on the drawings, without increase or additional costs. In no case shall these items be of smaller capacity than permitted by EQUIPMENT NAMEPLATE/NATIONAL ELECTRIC CODE.
B. Coordinate with other trades and review the drawings of other divisions and provide suitable control equipment and feeders/branch circuits so that the above requirements shall be met without incurring additions to the Contract in time or cost. Conform with UL Listing and nameplate requirements for equipment furnished. Such adjustments shall be subject to the approval of the Architect.
C. Provide suitable overcurrent protection and disconnecting means in conformance with the requirements of the NEC, for all items or equipment utilized on the project no matter how, or by whom, furnished. However, duplication, or redundancy, is not required. Coordinate said requirements with equipment furnished and with applicable trades.
D. Branch circuits supplying control panels and other equipment master and local unit locations and quantities shall be coordinated at the submittal stage and provided under Division 26. Provide emergency power where required to accomplish emergency equipment operations in accordance with Division 23 requirements. All control wiring for plumbing and heating, ventilation and air conditioning systems shall be installed under Division 23. Review Division 23 specifications and shop drawings for control systems to assure system compatibility between equipment furnished under Division 26 and system wiring and controls furnished under Division 23.
E. Motor controllers shall be furnished and installed by Division 26 where automatic control of equipment is required, unless specified to be furnished as an integral part of packaged equipment. Provide the number and type of auxiliary contacts and relays necessary to interlock the equipment and provide the specified control sequence, reserving spare NO and NC contacts for future use. Power wiring to all motors and motor controllers and between motors and controllers shall be furnished under Division 26.
F. Where drawings indicate or specifications require equipment to be controlled by line voltage interlock, safety device or control, provide line voltage control wiring in Division 26.
G. For each electrical connection required, provide pressure connectors, terminals (lugs), electrical insulating tape, heat-shrinkable insulating tubing, cable ties, solderless wire connectors, and other items required to complete splices and terminations of the necessary types. Cover splices or terminations with electrical insulation equivalent to insulation of conductors terminated.

PART 2 - PRODUCTS

2.1 STANDARDS FOR MATERIALS AND WORKMANSHIP:

A. All material shall be new and shall bear the inspection label of Underwriter's Laboratories, Inc. (UL).
B. The published standards and requirements of the National Electrical Manufacturer's Association (NEMA), Underwriters' Laboratories (UL), Electrical Testing Laboratories (ETL), American National Standards Institute (ANSI), Institute of Electrical and Electronic Engineers (IEEE), Insulated Cable Engineers Association (ICEA), National Fire Protection Association (NFPA), Occupational safety Health Association (OSHA) and the American Society for Testing and Materials (ASTM) shall govern and apply where such have been established for the particular material in question.
C. Specified catalog numbers and trade or manufacturers names are intended to describe the material, devices, or apparatus desired for type, construction features, electrical characteristics, ratings, operating functions, style and quality. Similar materials of other manufacturers, not less than specified quality, capacity or character may be substituted in conformity with the provisions of the General and Supplementary Conditions. Materials of the same type shall be the product of one manufacturer. Refer to Shop Drawing requirements.
D. Furnish all materials specified herein or indicated on the drawings.
E. All work shall be installed in a practical and workmanlike manner by competent workmen, licensed and skilled in their trade.

2.2 SHOP DRAWINGS:

A. Provide complete electrical characteristics for all equipment. Submit for approval data of the materials and equipment to be incorporated into the Work. Submittals shall include descriptive materials, catalog cuts, diagrams, performance characteristics, and charts published by the manufacturer indicating conformance to the specification and drawing requirements; model numbers alone will not be acceptable. Submittals shall be made by Specification section number, tabbed, grouped and submitted in packages as indicated below. Submittals for lighting fixtures shall include full photometric data. Electronic submittals are preferred. Shop drawings shall be submitted for the following equipment and items:
   1. Package I:
      A. Section 26 27 26 Wiring Devices
   2. Package II:
      a. Section 26 24 16 Panelboards
      b. Section 26 28 16 Motor and Feeder Disconnect Switches
   3. Package III:
      a. Section 26 09 33 Lighting Controls System
      b. Section 26 51 00 Lighting
A. Shop drawings and/or catalog data submittals on all items of equipment and materials shall be submitted in conformity with requirements of the General and Supplementary Conditions. Do not submit more than the required number of sets as indicated by Architect. Do not submit equipment or materials not requested in the Specifications.
B. All material lists and shop drawing submittals shall include a stamped indication by the Contractor signifying that the submittals have been previously reviewed for complete compliance with the Contract Documents, that all coordination required between trades prior to field installation has occurred and that the material being submitted is approved for installation. The stamped indication shall include the name of the contracting firm, the date of the review and the signature of the contractor. The Engineer will not review the shop drawing submittals without the contractor's stamped approval already on the shop drawings. The responsibility of complying with the Contract Documents will not be relieved by the Architect's review, which requires 10 working days from the date the shop drawings are received by the Architect.
C. All pricing is to be based upon the products, manufacturers, and processes described in the Contract Documents. Requests for approval of substitutions shall be written and delivered to the Architect's/Engineer's office in conformity with the provisions of the General and Supplemental Conditions. Do not submit any shop drawing or product data that does not conform with the contract documents.
D. Resubmittals, if necessary, shall be made as specified above. Resubmittals will highlight and indicate any and all revisions made there to and will include the following text "Resubmittal #___", typed in a prominent location on the cover sheet.
E. The Contractor shall provide with the shop drawing submittal dimensioned layouts of all electrical rooms and spaces (including Server/IT rooms) using the equipment he intends to furnish. Switchboard, panelboards, distribution panels, etc., will be rejected without dimensioned room layouts.
F. Samples of all materials proposed for use shall be presented to the Architect/Engineer for his approval when requested.
G. Submittals shall be noted with any deviations, alterations or limitations of product from the specified materials. The product will be rejected upon failure to indicate this information. Any conflict or failure to perform comparably to the originally specified materials will result in product rejection. It will be the Contractor's responsibility to replace the alternate material or equipment with the originally specified one and to demolish, replace, repair and retest the equipment, including repair or replacement of any component of the building, finishes or other systems affected by said replacement, at no additional costs to the Owner.

SUPPORT FASTENER DEVICES

2.3 A. Anchors for post tensioned concrete applications shall be cast in place continuous or spot insert channel providing a safety factor of 3 in 3000 lb hard rock concrete.
B. Anchors for cast in place concrete shall be insert type expansion shields and bolts, lead shields and bolts or self drilling expansion shields and bolts. Powder actuated pins of 1500 pound pull out strength may be utilized in concrete.
C. Anchors for wood construction shall be lag bolts or power driven wood screws.
D. Anchors in hollow masonry shall be toggle bolts.
E. Anchors for steel attachment shall be machine screws, bolts, or beam clamps.
F. Equipment mounted to drywall construction shall be secured to power channel (13/16 " x 1 5/8 " minimum). Secure channel to a minimum of two (2) dry wall studs with drywall screws and washers.

SUPPORTS:

2.4 A. Furnish and install under this contract all angle iron, channel iron, rods, threaded rod, supports or hangers required to install or mount all electrical equipment, material or related devices. Conduit shall not be supported from steel decking, roof decking, bridging, ceiling or ceiling support wires.

IDENTIFICATION:

2.5 A. All equipment or devices specified in Division 16 shall be identified with an engraved plastic nameplate. Identification of flush equipment shall be on the inside of the cover. Surface equipment shall be identified on the outside. Plastic nameplates shall be multicolored laminated plastic with engraved lettering. Nameplates shall be provided as scheduled:
   1. 208/120 volt normal power equipment shall be white faceplate/black core (1 ½ " x 6 " with 3/8 " high letters).
   2. 208/120 volt emergency power equipment shall be white faceplate/red core (1 ½ " x 8 " with ½ letters). Face plate shall read "Emergency - 120 Volts".
   3. Computer power equipment (ie UPS, isolated ground, etc.) shall be orange faceplate/white core (1 ½: x 8" with 3/8" Faceplate shall read "Computer - _____ Volts".
   4. Provide 3" high x (length as required) for electrical switchboards. Junction boxes for emergency power, lighting, fire alarm systems, etc. shall have circuit numbers
   5. indicated and labeled as required. Junction boxes for general power, lighting and mise, systems etc. shall have circuit numbers
   6. indicated and voltage (system) labeled as required.

AS-BUILT (RECORD) DRAWINGS:

2.6 A. Maintain on the job site at all times during construction a set of "As-Built" drawings with all changes during construction marked thereon. This set shall be utilized for no other purpose. Include any addenda, change orders, field orders, project sketches or "marked-up" drawing prints as may be generated on the job site to assist in recording the changes.
B. The "As-Built" drawings shall show all changes and deviations from the Contract Drawings including relocation of outlets, conduit and equipment. Record final dimensioned locations of switchboards, panelboards, transformers, disconnect switches, etc. Make sufficient measurements to locate all underground conduit. Show exact locations of underground cable and conduits, both interior and exterior, fully dimensioned from building column lines or permanent exterior structures. These drawings shall be available for reference at the time of final inspection.
C. At the completion of construction, the Contractor shall acquire a set of electronic files from the Architect/Engineer for the purposes of creating the final record as-built set. All changes noted above shall be incorporated thereon by the Contractor. The final set of plans, marked as "As-Built", shall be presented to the Owner for his use/record.

MAINTENANCE AND INSTRUCTION MANUALS:

2.7 A. Submit to the Architect/Engineer/Owners Representative upon completion of the work and prior to final inspection, copies of maintenance and instruction manuals for equipment provided as outlined below:
B. Three sets of the following data are required:
   1. Operating and maintenance instructions.
   2. Spare parts list.
   3. Copies of approved submittal data.
   4. Copies of panelboard circuit directories reflecting all field changes.
   5. Test reports of all tests performed.
   6. Contact names and phone numbers for parts suppliers of submitted equipment.
C. Arrange each set of data in a orderly way and bind each set in a separate 3-ring hard-cover binder (or electronic format – coordinate requirement with Owner) with appropriate label identifying the Project, Architect, Engineer, Contractor, Subcontractor and Date.

2.8 SUBMISSION OF DRAWINGS:

A. Submission of Architect's drawings for shop drawings and unaltered Architect's drawings for "As-Built" will not be acceptable.

2.9 SPARE PARTS STOCK:

A. Prior to final inspection, turn over to the Owner the following materials of the type and quantity specified. Material shall be new, in original shipping containers or cartons, of the same manufacture and type as installed on the Project. Obtain receipt for all materials turned over to the Owner.
   1. Lamps - Ten percent of each lamp type.
   2. Fuses - Ten percent of each size.
   3. Ballasts - Ten two-lamp ballasts and ten one-lamp ballasts.

PART 3 - EXECUTION

3.1 COORDINATION:

A. Before any piping, conduit, outlets, equipment or lighting fixtures are located in any area, coordinate the space requirements with all trades. Such shall be arranged so that space conditions will allow all trades to install their work, and will also permit access for future maintenance and repair. Coordinate the installation of recessed electrical equipment with concealed ductwork, piping, insulation, structural appurtenances and wall thickness.
B. Piping, ductwork, conduit and equipment installed at variance with the above requirements shall be relocated and/or revised to conform with the above requirements without incurring additions to the Contract.
C. Coordination of space requirements with all trades shall be performed so that:
D. No piping or ductwork, other than electrical, shall be run within 42" of panelboards, switchboards or transformers.
E. No pipes or ducts that operate at a temperature in excess of 120 degrees F. shall be installed nearer than 3" to any electrical conductor.
F. Do not scale drawings. Obtain dimensions for layout of equipment from the Architectural drawings unless noted on the Electrical drawings.
G. Contractor for work under this division shall be fully responsible for determining in advance of purchase that proposed equipment and materials for installation shall fit into the confines indicated and allow sufficient clearance for maintenance and service of all equipment including other trades.
H. Clearances in front of electrical switchboards, panelboards, motor starters, bus plugs etc. (equipment requiring maintenance while energized) shall be installed in accordance with N.E.C. 110.26. Further, NEC clearances shall also be maintained in front of mechanical equipment that may require service while energized.

PROTECTION OF MATERIALS:

3.2 A. Refer to the general requirements section of the Specifications for storage, protection and handling requirements.
B. Provide dry, weathertight staging and storage for materials and equipment requiring protection from weather and moisture per manufacturer's recommendations. Install temporary lighting or heat sources to prevent moisture accumulation. Provide protection against direct sunlight, precipitation, wind, ice, fire or excessive heat. Store materials in original undamaged packaging with manufacturer's labels and seals intact. Containers which are broken, damaged or watermarked are not acceptable and are subject to rejection.
C. Materials and equipment will not be installed until the environmental conditions of the project are suitable to protect same per manufacturer's recommendations. Equipment or materials damaged or subjected to moisture, precipitation, direct sunlight, cold or heat are not acceptable and shall be removed from the project and replaced at no additional costs to the Owner.
D. All conduit and other openings shall be kept protected to prevent entry of foreign matter or construction debris. Fixtures, equipment, and apparatus shall be kept covered for protection against dirt, water, chemical or mechanical damage before and during construction.
E. The original finish, including shop coat of paint of fixtures, apparatus or equipment that has been damaged shall be restored without incurring additions to the Contract in time or price.

3.3 HOUSEKEEPING PADS:

A. Provide 4" minimum height concrete pad, integral with floor, under all floor mounted electrical equipment or apparatus.

3.4 CUTTING AND PATCHING:

A. The Contractor is responsible for all cutting and patching, including escutcheon plates where necessary, whether or not such cutting and patching is shown or indicated.

3.5 CLEANING AND PAINTING:

A. Remove foreign materials, drywall compound, overspray, oil, dirt and grease from all raceway, fittings, supports, boxes, cabinets, pull boxes, panelboard trims and equipment to provide clean surfaces for painting. Remove surface oxidation and restore galvanized surfaces with cold process galvanizing compounds. Touchup marred or scratched surfaces of fixtures, panelboard and cabinet trims, motor control centers, switchboards, cabinets, and equipment enclosures with paint furnished by the equipment manufacturer specifically for that purpose. When touchup is required, provide one base coat over imperfection and subsequent coat over entire side or surface of equipment.
B. Do not paint trim hinges, latches, clamps, locks, device covers or trim covers. Mask or remove such items prior to finishing.
C. Unless otherwise noted herein, all painting shall conform to the "Painting" section of the specifications.
D. Where plywood backboards are utilized to mount electrical or electronic equipment provided under Division 26, finish same with two (2) coats of light gray semi-gloss paint.

3.6 ACCESS TO ELECTRICAL ITEMS:

A. Install all concealed electrical equipment, junction and pull boxes, apparatus, or devices so as to maintain access for maintenance, operations and replacement. Access doors or covers shall be provided where required by NEC or LAHJ and shall be installed in accordance with manufacturer's instructions. Refer to the Architect for approved types, means, methods and appearance. Locate each access unit accurately in relation to electrical work requiring access.

3.7 ELECTRICAL ROOMS AND CLOSETS:

A. Manufacturer's equipment shall not be larger than that dimensioned, or scaled, on plans. Conflicts shall be brought to the attention of the Architect, for resolution prior to ordering equipment.
B. Clear working space in electric rooms and closets shall be no less than required by the N.E.C.
C. Submit for review, prior to construction or purchase of any equipment, scaled drawings of electrical rooms, closets, or spaces showing, in detail, planned installation locations of the equipment. These shall clearly show compliance with A and B above.

3.8 EQUIPMENT CONNECTIONS:

A. Review all divisions of specifications, where equipment requiring electrical service is specified, to determine the complete scope of work under this division of the specifications. Provide electrical connections and service to all equipment specified elsewhere requiring such connections or service.
B. Connect all equipment requiring electrical connections, in accordance with the equipment manufacturer's requirements. Where equipment connections require specific locations, determine and coordinate same with submittals. Provide concealed service to central plant equipment locations and pads.

3.9 NAMEPLATES AND IDENTIFICATION:

A. Provide and install nameplates for transformers, switchboards, switchgear, power and lighting panels, disconnect switches, time switches, pull boxes, junction boxes, fire alarm equipment, contactors, relays and other unit equipment. Nameplates shall be affixed with epoxy cement.
B. Install nameplates plumb and level.
C. Provide and install sleeve type wire markers on all conductors at all termination points and access points. Branch circuit identification (as LP-21 ") shall be installed on hot and neutral conductors. Dedicated circuits and isolated ground technical power circuits shall have wire markers installed on ground conductor. Label junction and pull box covers with all circuit numbers contained therein.
D. All electrical equipment, such as switchboards, panelboards, motor control centers, and meter socket enclosures, shall be labeled with an Arc-Flash Hazard Warning sticker as required by NEC 110.16. The warning sticker shall be located so as to be clearly visible to personnel before opening any equipment for servicing, examination, maintenance, or adjustment. This requirement applies to all panelboards on the project; the exception for dwelling units shall not apply.

3.10 EXCAVATION AND BACKFILLING:

A. Provide and perform all excavation required to install conduit, ductbanks and manholes indicated on the drawings and/or specified. Trenches shall be of uniform width required with minimum 8" clearance on both sides. Remove and dispose of all materials not to be used for backfill. Maintain dry excavations for electrical work, by removing water. Grade areas to prevent surface water from entering excavation. Remove any accumulated water by pumping. Perform all excavation by open cut. Excavate with vertical-sided excavations where possible. Where necessary, provide sheeting and cross-bracing to sustain sides of excavations. Provide materials for shoring and bracing, such as sheet piling, uprights, stringers and cross-braces, in good serviceable condition. Establish requirements for trench shoring and bracing to comply with local codes and LAHJ. No tunneling shall be permitted.
B. The bottom of all trenches and excavation shall be graded to provide uniform bearing surface for conduits or ductbanks on undisturbed soil at every point along entire length. Tamp overexcavation with specified backfill materials. Remove unstable materials unsuitable for supporting equipment or installation and replace with specified materials for a minimum of twelve (12) inches below invert of equipment or installation.
C. Specified materials shall be utilized for backfilling, in not more than six (6) inch layers and tamped until the installation has cover of not less than the adjacent grade and not more than two (2) inches above same. Remove sheeting and cross-bracing during backfilling wherever such removal would not endanger the work or other property. Equalize backfilling operation to avoid shifting of materials and equipment installed. Compaction of backfill materials shall be at least equal to surrounding undisturbed material. Backfill trenches with concrete where excavations pass within 18" of footings or other utility lines. Do not settle backfill with water. Conform to compaction requirements and methods specified elsewhere.
D. Electrical duct shall be installed a minimum of 24 " below finished grade with bottom of duct below geographic frost line. Duct cark shall not be in direct contact with building structure (slab) except for vertical riser supports.

END OF SECTION

SECTION 26 05 19
WIRES AND CABLES

PART 1 - GENERAL

1.1 DESCRIPTION:

A. All work specified in this Section shall comply with the provisions of Section 26 00 00.
B. This Section covers the furnishing, installation and connections of the building wiring system. Interior wiring, power distribution, lighting, appliance and equipment, motor and exterior wiring systems extending beyond the building are included. The wiring system shall be complete from electrical service entrance to every electrical device requiring an electrical connection.

PART 2 - PRODUCTS

2.1 CONDUCTORS:

A. Conductors shall be copper of 98% conductivity, soft temper, 600 volt insulation. Sizes specified are American Wire Gage (AWG) for No. 4/0 and smaller and thousand circular mils (kcmil) for all sizes larger than No. 4/0. Service entrance conductors shall be 600 volt, type XHHW.
B. Conductors No. 10 and smaller shall be solid and type "THHN" / THWN" insulation. No. 8 and larger shall be stranded and type "THHN" / "THWN" or "XHHW" insulation.
C. All wire and cable shall be U. L. Listed and shall bear the U. L. Label.
D. All conductors shall have size, grade of insulation, voltage and manufacturer 's name permanently marked on the exterior at maximum 24 inch intervals.
E. Conductor size shall be a minimum of No. 12 AWG. Conductor size shall be not less than indicated on the drawings. The minimum size of all emergency circuits shall be No. 10 AWG.
F. Fixture wire shall be No. 14 AWG silicone rubber insulated, stranded fixture wire, Type THHN (90 degrees C.).
G. Control conductors for use on 120 volt control wiring shall be No. 14 AWG stranded Type THHN/THWN, unless indicated otherwise on the drawings or as required for compliance with voltage drop requirements.
H. Where cables are used for switch leg, the white conductor shall be permitted to supply the switch, but not as a return to the switchboard outlet for 277 volt lighting switch legs and phase conductor shall be.

2.2 PREFABRICATED CABLE ASSEMBLIES:

A. Metal clad cable type MC may be utilized for concealed branch circuit wiring only as permitted by local authority having jurisdiction. Insulated ground conductor shall be provided.

2.3 CONNECTORS:

A. Terminations and connections shall be made with U.L. Listed connectors applied per manufacturer 's recommendations.
B. Connections of #10 AWG and smaller size power and lighting branch circuit conductors shall be made with insulated spring steel wire nut connectors. Size #8 AWG and larger connections shall be made with hydraulically applied compression type connectors with insulated covers.
C. Connections of special system conductors shall be made via dedicated terminal strips labeled to indicate wire number and system type. Wire nut connections in system junction box are not acceptable.

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PROJECT NO. 25.107 DRAWN BY KMM ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
E-0.2

BUILDING SHELL CONSTRUCTION SET

Tom Evans
Digitally signed by Tom Evans
DN: cn=Tom Evans, o=Salas O'Brien, ou=Salas O'Brien, c=US
Date: 2025.10.16 10:54:02-04'00'

WISCONSIN
THOMAS L. EVANS
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ATLANTA
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10/16/2025

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Project No: 2550-01885

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ELECTRICAL SPECIFICATIONS

2.4 ALTERNATE MATERIAL DESCRIPTION: (OPTIONAL)

A. Where permitted by local authority having jurisdiction, aluminum conductors may be utilized for conductor sizes No. 4/0 and larger in lieu of copper conductors specified and indicated on the drawings. Insulation of aluminum conductors shall be identical to insulation specified and indicated for copper conductors. Aluminum conductor 's sizes shall be based upon not less than equivalent copper ampacities per NEC Table 310.15(B)(16) and voltage drop characteristics. Submit table of proposed substitution for review and approval in accordance with submittal requirements.
B. Fittings utilized to terminate aluminum conductors shall be compression type, U. L. Listed for the application.
C. Where aluminum conductors are utilized, raceways shall be increased in size in accordance with the conduit fill limitations of the National Electrical Code. Derating factors of NEC 310.15(B)(2) shall be applied, where applicable. As-built drawings shall reflect the size of aluminum conductors and raceway installed.

2.5 ACCEPTABLE MANUFACTURERS:

A. Wire and Cable products:
1. Southwire Co.
2. Alcan Cable
3. AFC Cable Systems
4. Cerro Wire & Cable
5. General Cable
6. Okonite
B. Signal Cable products:
1. Belden
2. Continental
3. Dekoron
4. West Penn
C. Connector products:
1. TYCO Electronics
2. FCI
3. Eagle
4. Gould Electronics
5. Ideal
6. Joslyn Sunbank (Esterline)
7. O-Z Gedney
8. Thomas & Betts
9. Isco
10. Buchanan
11. King
D. Wire management products:
1. TYCO Electronics
2. Thomas & Betts
3. Panduit
4. Wieland
E. Wire & Cable identification products:
1. Thomas & Betts SM series
2. Wieland
3. Brady
F. Wire Pulling lubrication products:
1. Ideal Yellow 77

PART 3 - EXECUTION

3.1 WIRING:

A. All conductors shall be installed in conduit, unless noted otherwise. All conductors shall be pulled in at the same time. No conductors shall be pulled into the conduit until the conduit system is complete and plaster/drywall construction has dried. Clean, swab and evacuate conduit system before pulling in conductors. Do not exceed the manufacturer 's maximum pulling tension.
B. Conductors shall be continuous from outlet to outlet and from outlet to junction box or pull box. All splices and joints shall be carefully and securely made to be mechanically and electrically solid with proper U. L. Listed connectors. Where connection is made to any terminals of more than 30 amperes capacity and where conductors larger than No. 10 are connected to any terminal, copper terminal lugs shall be secured to the conductors. Where multiple connections are made to the same terminal, individual lugs for each conductor shall be used.
C. Each conduit shall have a minimum of three (3) conductors pulled in unless that particular conduit is noted as being for systems other than electrical circuitry and/or future use or unless noted otherwise. Grounding conductors are not shown in wire count, but are required from circuit origin to last device.
D. Conductors for lighting and receptacle circuits shall have color coded jackets. The wiring shall be color coded with the same color used with its respective phase through the entire job as follows:
1. 120/208V
a. PHASE A - BLACK
b. PHASE B - RED
c. PHASE C - BLUE
d. NEUTRAL - WHITE
e. GROUND - GREEN
E. The feeder and service entrance conductors shall be color coded by the use of one (1) inch wide colored plastic tape applied within 6" of each conductor end.
F. Branch circuit conductors shall not be smaller than No. 12 and where the home run from panel to first device exceeds 60'-0", the conductors from home run outlet to panel shall be No. 10 minimum.
G. Branch circuit wiring which supplies more than one fluorescent fixture through wireway of other fixtures shall be rated for use at 105 degrees C.
H. For branch circuits terminating in outlet without device, leave minimum of 12" of slack wire coiled for connection of equipment.
I. All conductors shall be identified with proper circuit numbers at all access points, terminals, junction boxes and at panelboards within 6" of conductor ends.
J. Special systems conductors shall be color coded in accordance with system manufacturer 's recommendations or in a manner approved by the Engineer.
K. Furniture system branch circuits shall have minimum #10 neutral home run conductors pulled to system junction box.
L. Maintain phase rotation established at service entrance point throughout entire project.
M. Taps and splices, where permitted by these specifications, shall be performed with an encapsulating watertight connection kit which insulates and moisture seals the connection.
N. Grounding conductors are not indicated in the wire count shown on the drawings, but are required in all branch circuit and feeder installations. Provide insulated ground conductor (sized per NEC requirements) in all raceways.

3.2 CONTROL WIRING:

A. Control wiring is defined as the wiring which provides connections between control circuit elements and does not provide the power circuit.
B. Generally, control wiring is specified in Division 23; however, where a control device such as a push-button, thermostat, firestat, etc. is to be installed in the power circuit, these devices shall be received, stored and installed as part of the work of this Division. Control wiring, conduit etc. shall be coordinated with division 23 and provided as required.

3.3 CONNECTIONS:

A. All connectors shall be U.L. Listed and shall be utilized in full accordance with manufacturers requirements.
B. Splices shall be made only where specifically approved by the Engineer. Conductors shall be continuous from origin to first outlet box or manhole. Splices made exterior to the structure, or below grade, shall be compression type connections with insulated, waterproof covers. Submit splicing requests for review and approval prior to installation.
C. Termination lugs shall be applied to all single cables #8 and larger, and shall be compression type fittings. The use of mechanical type lugs, kerneys or other pressure type connections will not be permitted.
D. All compression connections shall be long barrel type installed using hydraulic tools designed for the purpose.
E. Insulated spring steel wire nut connectors shall be used for branch circuit connections of #10 and smaller conductors. Connections of #8 and larger sizes shall be made with compression type connections with insulated covers. Where exposed to moisture or corrosion spring steel wire nut connectors shall be silicone filled.
F. Control and special system riser and junction boxes shall be fitted with terminal strips and all conductors shall be labeled per system requirements. The installation of wirenuts in special system riser and junction boxes is not acceptable.
G. Phase rotation at service equipment shall be maintained throughout entire project, color coding of conductors shall be consistent for feeders and branch circuits throughout entire project.

3.4 IDENTIFICATION:

A. All conductors shall be identified with full circuit number at all access points, boxes, and at panelboards within 6 inches of conductor end. Identification shall be permanently marked PVC split sleeve or tubing type
B. Tape or laminated type wire markers are not acceptable
C. Permanently mark the junction box cover with the circuit numbers for all conductors contained within. Utilize black marker for normal power and red marker for emergency power and fire alarm.

3.5 WIRE MANAGEMENT:

A. Power and control wiring within all special system cabinets and enclosures, and within switchboards and electrical equipment shall be bundled or routed within slotted wiring duct in a workmanlike manner.
B. Any knockout, cutout or slot containing wiring shall be fitted with bushing or continuous grommet strip to avoid fraying or abrasion.
C. Train and lace all conductors within panelboard or control enclosures with cable ties or spiral wrapping.
D. Spare conductors installed shall be identified and capped.

END OF SECTION

SECTION 26 05 26
GROUNDING

PART 1 - GENERAL

1.1 DESCRIPTION:

A. All work specified in this Section shall comply with the provisions of Section 26 00 00.
B. This section covers the installation of the building grounding system. The grounding system shall be established with equipment grounding conductors; the use of metallic raceways as the only method of equipment grounding is not acceptable.
C. In addition, this section covers ground fault protection for the main service entrance equipment.

PART 2 - PRODUCTS

2.1 GROUNDING CONDUCTORS:

A. Grounding electrode conductors shall be bare or green insulated copper conductor sized as indicated on the drawings.
B. Equipment grounding conductors shall be green **insulated** type THHN/THWN, or XHHW conductors sized as indicated on the drawings. Where size is not indicated on the drawings, conductor size shall be determined from the National Electrical Code table on sizes of equipment grounding conductors.
C. Bonding jumpers shall be flexible copper bonding jumpers sized in accordance with the National Electrical Code tables for grounding electrode conductors.

2.2 PANELBOARDS, TRANSFORMERS, MOTOR CONTROLLERS, AND DISCONNECT SWITCHES:

A. Provide each low voltage distribution and branch circuit panelboard with a copper equipment grounding bar brazed or riveted to the associated enclosures or cabinet and an insulated neutral bar.
B. Provide a conductor termination grounding lug bonded to the enclosure of each equipment item.

2.3 DEVICES:

A. Each receptacle and switch device shall be furnished with a grounding screw connected to the metallic device frame.

2.4 GROUND RODS:

A. Ground rods shall be 3/4" x 10'-0 copper clad steel.
B. Sectional ground rods shall be hot dip galvanized 5/8" x 10' sections with an internal stainless steel splined coupling pin.

2.5 HYDRAULIC TERMINATIONS:

A. Acceptable manufacturers for hydraulically applied terminations are Square D, Burndy and Thomas and Betts (T & B).
B. Acceptable manufacturers for mechanically applied terminations are Ideal, Burndy and Thomas and Betts (T & B).

PART 3 - EXECUTION

3.1 INSTALLATION:

A. Ground all non-current carrying parts of the electrical system, i.e. raceways, equipment enclosures and frames, junction and outlet boxes, machine frames and other conductive items in close proximity with electrical circuits, to provide a low impedance path for potential grounded faults.
B. Service entrance and separately derived electrical systems, grounding electrode system:
1. The neutral conductor of the electrical service serving the premises wiring system shall be bonded to the ground bus bar in the service equipment which shall be bonded to the cold water system, the ground rod system, and other grounding electrodes specified herein or indicated on the drawings. Grounding electrode conductors shall be installed in rigid, nonmetallic conduit to point of ground connection, unless subject to physical damage in which case it shall be installed in galvanized rigid steel. Where metallic conduit is permitted, bond conduit at both ends to grounding electrode conductor with a U.L. bonding bushing. Bonding conductor shall be the same size as the grounding electrode conductor.
2. Make connection to main water line entering the building. Make connections ahead of any valve or fittings whose removal may interrupt ground continuity. Install a bonding jumper of the same size as the grounding conductor around the water meter.
3. Bond together the following systems to form the grounding electrode system. All system connections shall be made to the electrodes as close as possible to the service entrance equipment and each connected at the service entrance equipment ground bus. Do not connect electrode systems together except at ground bus.
a. Cold water piping system
b. Ground rod system
c. Lightning protection system
d. Steam and chilled water piping
e. Main rebar in foundation footing
f. Building structural steel components.
4. Bond the neutral of all dry type transformers to the nearest building structural steel. In reinforced concrete structures, utilize a #4/0 cu. conductor riser tied back to main switchgear which shall serve as the grounding electrode for the separately derived systems. Make connection to building steel with chemical weld type connector, in a location in unfinished space where the connection will not be subject to physical abuse.
5. Bond the neutral and frame of the emergency generator to building steel and the ground rod system, which shall serve as the grounding electrode for the separately derived system. In reinforced concrete structures building steel shall be considered to be reinforcing steel in vertical columns. Make connection to building steel with chemical weld type connector, in a location in unfinished space where the connection will not be subject to physical abuse.
6. Grounding Electrode connections to structural steel, reinforcing bars, ground rods, or where indicated on the drawings shall be with chemical exothermic weld connection devices recommended for the particular connection type. Connections to piping shall be with U.L. listed mechanical ground clamps.
7. Bonding shall be in accordance with the National Electrical Code.
8. Install ground rods where indicated on the drawings with the top of the ground rods 12 inches below finished grade.
C. Equipment Grounding Conductor:
1. Grounding conductors for branch circuits are not shown on the drawings; however, grounding conductors shall be provided in all branch circuit raceways and cables. Grounding conductors shall be the same AWG size as branch circuit conductors for #10 and smaller.
2. Grounding conductors for feeders are typically indicated on the drawings and the raceway is sized to accommodate grounding conductor shown. Where grounding conductor size is not indicated on the drawings, conductor shall be in accordance with the equipment grounding conductor table of the National Electrical Code.
3. An equipment grounding conductor shall be installed in all flexible conduit installations. For branch circuits, grounding conductor shall be sized to match branch circuit conductors for #10 and smaller.
4. A feeder serving several panelboards shall have a continuous equipment grounding conductor which shall be connected to each related cabinet grounding bar.
5. The equipment grounding conductor shall be attached to equipment with bolt or sheet metal screw used for no other purpose. Where the equipment grounding conductor is stranded, attachment shall be made with lug attached to grounding conductor with crimping tool.
6. Bond all motors by drilling and tapping the bottom of the motor junction box and attaching the equipment grounding conductor to the box with a round head bolt used for no other purpose. Conductor attachment shall be through the use of lug attached to conductor with crimping tool.
7. Equipment grounding conductors shall terminate on panelboard, switchboard, or motor control center grounding bus only. Do not terminate on neutral bus. Provide a single terminal lug for each conductor. Conductor shall terminate in the same section as the phase conductors originate. Do not terminate neutral conductors on the ground bus or equipment grounding conductors on the neutral bus.
D. Other Grounding Requirements:
1. Each telephone backboard shall be provided with a No. 6 grounding conductor. When backboard is located in vicinity of electrical service equipment, the "point of grounding" of this conductor shall be the main cold water service with connections made ahead of any valves or joints. Remote backboards shall use building steel as "point of ground". Terminate conductor by stapling to backboard.
2. At each building expansion joint flexible copper bonding jumpers shall be attached to building structure by chemical weld process. Install bonding jumpers in concealed locations that will not subject connections or jumpers to physical abuse. Install 100' on centers across expansion joints.

3.2 TESTING

A. Upon completion of the ground rod installation, the Contractor shall test the installation in accordance with the "Electrical System Tests" section of this Specification. Grounding resistance reading shall be taken before connection is made to the building cold water piping system. Ground resistance readings shall not be taken within forty-eight hours of rainfall. Results of ground resistance readings shall be forwarded, in writing, immediately to the Project Engineer.
B. If the resistance to ground exceeds 5 ohms, additional rods shall be driven and bonded together, until a reading of 5 ohms or less to ground is obtained. After completion of the grounding system, measure the system ground resistance with a "Megger Earth Tester". Submit directly to the Project Engineer two (2) copies of each test report certified by the testing technician and the electrical contractor.
C. All grounding electrode conductors and ground bus shall be measured by the Contractor for objectionable levels of current, and to detect any inadvertent connection of neutral to ground.
D. If the ground current exceeds 10% of the rating of the conductor ampacity, all devices on that feeder or circuit shall be rechecked for proper connection.
E. All grounding system connections shall be rechecked at final checkout for correct wiring termination methods and mechanical strength.

END OF SECTION

SECTION 26 05 33
RACEWAY SYSTEMS

PART 1 - GENERAL

1.1 DESCRIPTION:

A. All work specified in this Section shall comply with the provisions of Section 26 00 00.
B. This Section covers the complete interior and exterior conduit and raceway systems.

PART 2 - PRODUCTS

2.1 CONDUIT:

A. Galvanized rigid steel conduit (GRC) shall be low carbon, hot-dipped zinc galvanized steel to meet U.L. 6 Standards, ANSI C80.1 and shall have NPT (ANSI B1.20.1) full cut threaded joints, galvanized after forming. IMC shall carry U. L. Label. Conduit with integral couplings may be utilized for 2.5 inch sizes and above provided it conforms to U. L. Safety Standard #514-B.
B. Intermediate metal conduit (IMC) shall be premium hardened steel conforming to ASTM-A568, hot galvanized with zinc chromate exterior with polymer sealcoat to meet U.L. 1242 and ANSI C80.6 standards. Interior to be finished with corrosion inhibiting organic coating. Both coatings shall conform to ANSI C80.6 requirements. IMC shall have NPT (ANSI B1.20.1) full cut threaded joints, galvanized after forming. Conduit with integral couplings may be utilized for 2.5 inch sizes and above provided it conforms to U. L. Safety Standard #514-B. IMC shall carry U. L. Label.
C. Electrical metallic tubing (EMT) shall be high grade mild ductile steel, hot galvanized exterior with a clear organic polymer topcoat to meet U.L. 797 Standards and ANSI C80.3. Interior to be finished with corrosion inhibiting clear organic coating. Conduit with integral set screw couplings may be utilized for 2.5 inch sizes and above provided it conforms to U. L. Safety Standard #514-B.
D. Plastic conduit (PVC) shall be schedule 40 PVC heavy wall type for 4" and smaller, Schedule 20 for 5" and larger. PVC shall be U.L. Listed, NEMA TC 2, sunlight resistant and suitable for use with 90 degree C conductors.
E. Flexible metal conduit (FLX) shall be extra flexible, extra strength galvanized steel conduit tubing and shall meet U. L. Standard for Flexible Steel Conduit and U.L. Standard for Safety #1. The use of aluminum flexible conduit is not permitted.
F. Liquid-tight flexible metal conduit (WFX) shall be UL Listed with galvanized steel core of square locked or interlocked design, integral ground conductor and thermoplastic PVC (polyvinyl chloride) cover. The use of aluminum core or non-metallic types is not permitted.
G. Electrical non-metallic tubing (ENT) shall be UL Listed and manufactured to the requirements of NEMA TC-13. This raceway is permitted to be utilized with concrete encasement or unexposed installations only. Do not install exposed in plenums or other open areas. Utilize steel outlet boxes in all partition construction. Utilize plastic boxes only in concrete encasement.
H. Steel conduit approved manufacturers are Allied, Superior Essex, Republic, Wheatland and Pittsburgh.
I. Flexible conduit approved manufacturers are Anamet (Anaconda) and Republic.
J. PVC conduit approved manufacturers are Carlon and Superior Essex.
K. PVC coated metallic conduit approved manufacturers are Robroy, Permacote and Thomas & Betts.

2.2 CONDUIT FITTINGS:

A. GRC and IMC conduit fittings shall be zinc-coated, ferrous metal and taper threaded type, U. L. Labeled.
B. EMT fittings shall be zinc-coated steel and shall be Type 1 or 2 (raintight compression or concrete tight set-screw type). EMT connectors shall have insulated throats. Die cast, malleable iron or pressure cast material will not be accepted. Fittings shall bear U. L. Label. Two (2) inch and larger fittings shall be compression type or shall utilize dual set screws for each side of fitting.
C. PVC fittings, elbows and cement shall be NEMA TC3, produced by the same manufacturer. All joints shall be solvent welded in accordance with the manufacturer's recommendations.
D. Conduit connections to switchboards, motor control centers, transformers, panels, cabinets, and pull boxes shall have locknuts designed to bite into the metal.
E. Each conduit end shall be provided with either an insulated throat connector or separate locknut and insulated bushing. Bushing shall be installed before any wire is pulled.
F. Expansion fittings shall be provided in all conduits which crosses an expansion joint in, across, or through same. Fittings shall be U.L. 467 and 514 Listed. Fittings shall contain an internal flexible metal braid to maintain system ground continuity.
G. Flexible conduit fittings shall be cast malleable iron or stamped steel type with integral fastener. Fittings shall be U.L. Listed for the application. The use of "squeeze" type cast or stamped steel connectors is not permitted.
H. Liquidtight flexible metal conduit fittings shall be liquidtight with neoprene bushing, nylon gland, tapered hub threads and outlet bushing. Fittings shall be U.L. Listed for the application. The use of non-metallic or thermo-plastic insert connectors is not permitted.
1. EMT conduit fittings approved manufacturers are Raco, Crouse-Hinds, O.Z Gedney, Thomas & Betts and Appleton.
2. GRC and IMC fittings approved manufacturers are Appleton, Cooper Crouse-Hinds, O.Z. Gedney or Thomas & Betts.

2.3 SMOKE AND FIRE STOP FITTINGS:

A. If and where required, smoke and fire stop fittings shall be U.L. listed for that purpose. The fittings used to seal conduit either on the outside of the conduit or cable or internally shall have heat activated intumescent material which expands to fill all voids and shall be O.Z./Gedney "FIRE-SEAL" or Dow Corning silicone RTV foam with an hourly fire-rating equal to or higher than the rating of the floor, ceiling or wall through which the cable or conduit passes. The seals for conduit shall be of the flanged type. Penetration of any fire rated wall, floor, or ceiling shall use Through-Penetration Firestop Systems described in the current Underwriters Laboratories Building Materials Directory.

2.4 RACEWAY SUPPORTS:

A. Raceways and systems shall be supported independent of any other equipment or appurtenances except the building structure. Suspended ceiling systems will not be considered as structure for support purposes, even if so rated by the manufacturer.
B. All support components shall be zinc-coated or have equivalent corrosion protection. Unprotected components shall be removed and replaced at no additional costs to the Owner.
C. Conduit support straps shall be single hole cast malleable iron or dual hole stamped steel type with zinc coating sized for type of raceway used. Conduit clamps for single conduit support shall be stamped steel with bolt & nut fastener and threaded rod support. Multiple conduit support channel straps shall be galvanized stamped steel two piece clamps with bolt & nut fasteners.
D. Conduit support channel shall be minimum 1 5/8 " x 1 5/8 " x 12 gauge roll formed pre-galvanized steel or painted steel conforming to ASTM A-570 Grade 33 or ASTM A-446 Grade A requirements. Channel cross section shall be increased to provide higher load bearing capability, if required by this installation. Channel shall have elongated holes at two (2) inch centers.
E. Drop wire type hangers will not be permitted. Any hanger which may distort the ceiling support structure will not be permitted. Lathers channel and chain are not acceptable for conduit hangers.
F. Furnish and install under this contract all angle iron, channel iron, rods, threaded rod, supports or hangers required to install or mount all electrical equipment, material or related devices. Conduit shall **not** be supported from steel decking, roof decking, bridging, ceiling or ceiling support wires.
G. Before any piping, conduit, outlets, equipment or lighting fixtures are located in any area, coordinate the space requirements with all trades. Such shall be arranged so that space conditions will allow all trades to install their work, and will also permit access for future maintenance and repair. Coordinate the installation of recessed electrical equipment with concealed ductwork, piping, insulation, structural appurtenances and wall thickness.
H. Support branch circuit conduits and raceways at intervals not exceeding ten (10) feet and within three (3) feet of each termination. Support feeder conduit and raceway at intervals not exceeding twelve (12) feet and within three (3) feet of each termination.
I. Piping, ductwork, conduit and equipment installed at variance with the above requirements shall be relocated and/or revised to conform with the above requirements without incurring additions to the Contract.
J. Raceway installed within reinforcing steel of elevated or slab on grade concrete construction shall be tied to the re-steel at intervals not exceeding three (3) feet.

2.5 SUPPORT FASTENER DEVICES:

A. Anchors for post tensioned concrete applications shall be cast in place continuous or spot insert channel providing a safety factor of 3 in 3000 lb hard rock concrete.
B. Anchors for cast in place concrete shall be insert type expansion shields and bolts, lead shields and bolts or self drilling expansion shields and bolts. Powder actuated pins of 1500 pound pull out strength may be utilized in concrete.
C. Anchors for wood construction shall be lag bolts or power driven wood screws.
D. Anchors in hollow masonry shall be toggle bolts.
E. Anchors for steel attachment shall be machine screws, bolts, or beam clamps.
F. Equipment mounted to drywall construction shall be secured to power channel (13/16 " x 1 5/8" minimum). Secure channel to a minimum of two (2) dry wall studs with drywall screws and washers.
G. Under no circumstance will nylon or composition type tie wraps or straps be permitted for use in supporting electrical raceway. Utilize galvanized tie wire or prefabricated steel clips for such support.

PART 3 - EXECUTION

3.1 CONDUIT:

A. Rigid galvanized conduit or intermediate metal conduit shall be used for service entrance and all feeders and branch circuits where exposed to damage or moist conditions.
B. EMT shall be used for feeders, branch circuits, fire alarm and telephone when not underground or in concrete in contact with the earth. Raceway underground or in concrete in contact with the earth shall be rigid galvanized conduit, intermediate metal conduit or Schedule 40 PVC. Conduit exiting elevated slabs or slab on grade shall be IMC. PVC conduit exiting slab is not permitted.
C. Conduit shall be continuous from outlet to outlet, from outlet to cabinet, junction box and pull box. Conduit shall enter and be secured to all boxes, etc., in such a manner that each system will be electrically continuous from service to all outlets. All conduits from cabinets and junction boxes shall terminate in approved outlet box or conduit fittings. Conduit connections to any box which has no threaded hub shall have double locknuts and bushing installed.
D. Provide junction boxes or pull boxes where shown and where necessary to avoid excessively long runs or too many bends between outlets. The conduit sizes shown may be increased if desired to facilitate the pulling of cables.
E. All conduit shall be concealed unless indicated otherwise. Install exposed conduit parallel with or at right angles to the building walls and support from walls or ceilings at intervals required by Code with approved galvanized malleable iron or stamped steel clamps or hangers. Concealed conduit above the ceiling shall be supported independent of ceiling construction. Where ceilings of lay-in type are used, conduit must be installed minimum six (6) inches above ceiling structure to permit removal of ceiling panels and lighting fixtures.
F. Use threaded rods and hangers consisting of double-nutted threaded rods and channel or angles of 12 gauge minimum steel for supporting multiple conduits. Refer to drawing details.
G. Minimum size conduit for exposed branch circuits shall not be smaller than 1/2". Raceway installed in concrete slabs shall be minimum 3/4". Home runs shall extend from outlets shown to panel designated. Home runs shown shall not be combined. Home run conduit shall not be smaller than 3/4".
H. Type GRC and IMC conduit shall be cut and threaded with similar die heads. Deburr outside of all cuts prior to cutting threads. Cut threads one thread short so that they meet in the coupling and all threads are covered when wrench tight. Deburr inside of end after cutting threads. Right and left hand couplings shall not be used; conduit couplings of the Erikson Type shall be used at locations requiring such joints. Utilize only rigid type hand benders, "Chicago" type benders or power benders with required IMC shoes. DO NOT attempt to bend IMC with "hickey" type hand benders. Any such bends will be replaced at no additional costs to the Owner. Utilize only U.L. Listed conduit fittings, elbows and junction boxes (IMC or GRC types).
I. All conduit for future use and for special systems such as telephone, data or TV wire shall be left with No. 16 gauge wire or approved pull cord pulled in them.
J. Expansion fittings shall be installed in all conduit penetrations through, around or in expansion joints, and all straight runs in excess of 150 feet. Watertight flexible metallic conduit, connectors and couplings may be utilized for exposed transitions. U.L. 467 & 514 Listed fittings are required in slab.
K. Provide non-hardening elastic type duct seal compound, Neer No. DC, 3M Co. "Scotchfil," or Gardner Bender duct seal, for each conduit entering the building from outside, for each conduit entering refrigerated spaces, for each conduit entering exterior equipment and for each conduit passing from one space into another which is normally at a lower temperature. Conduits entering refrigerated spaces shall be IMC.
L. Provide intermediate metal conduit and watertight conduit hubs on conduit terminating in a box or cabinet exposed to the weather or damp locations.
M. Space in sleeves or around conduit that pass through fire resistive or fire rated walls, partitions, floors or ceilings shall be closed by packing with an U.L. labeled fire resistive material, or provide mechanical fire stop fittings that will maintain the rating of the barrier penetrated. Conform with local authority requirements and UL Building Materials Directory.
N. Coordinate the conduit routing and installation location with the actual electrical equipment furnished. Review submittals for termination locations. Coordinate with all Specification Divisions and submittals to determine termination and access locations. Coordinate installation sequence with all other trades to avoid conflicts and provide the fastest overall installation schedule.
O. Dented, malformed or flattened conduits are not permitted and shall be removed and replaced.
P. Protect conduits against dirt, plaster, and construction debris with the use of conduit plugs. Tape is not acceptable. Plugs shall remain in place until all masonry or/and drywall construction is complete. Protect conduit stub-ups during construction from damage, and replace any bent conduits.
Q. Conduits serving roof mounted equipment shall pass through roof curb where such is provided. Roof penetrations outside this equipment will not be permitted.
R. Separate raceway systems shall be provided for power systems and for control, signal and communications systems. Do not install above systems cables in the same raceway as branch circuit or feeder cables.

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PROJECT NO. 25.107 DRAWN BY KMM ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
E-0.3

BUILDING SHELL CONSTRUCTION SET

Tom Evans

WISCONSIN THOMAS L EVANS E-36195 ATLANTA GA PROFESSIONAL ENGINEER

10/16/2025

Salas O'Brien
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Project No: 2550-01885

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ELECTRICAL SPECIFICATIONS

S. Service entrance and fire pump feeders shall be installed "Outside" of the building as defined by NFPA and the N.E.C. Provide concrete encasement where required to conform with Code requirements.
T. All conduits installed exposed shall be IMC to a minimum elevation of ten (10) feet AFF. Exposed boxes shall be type FS cast metal.
U. Where hazardous locations, as classified by the National Electrical Code, exist, all raceway and fittings and the installation of these materials shall comply with Article 500 requirements.
V. All conduits for interior wiring systems operating above 600 volts shall be galvanized rigid conduit, painted red at access points and labeled per OSHA requirements..
W. Maintain minimum three (3) inch clearance when raceway crosses piping and/or systems operating above 75&F and provide twelve (12) inches separation when installed parallel to hot piping, flues or appliances operating above 75&F.
X. Nonmetallic fittings shall be applied with compatible solvent welding cement and shall be fitted while solvent is liquid. Overwrap all fittings used in concrete encasement with suitable tape. Provide o-rings at terminal points to provide watertight seal.

3.2 FLEXIBLE CONDUIT:

A. Watertight flexible metallic conduit shall be used in making short flexible connections to all motors, transformers, bus duct switches, kitchen equipment and rotating or vibrating machinery or equipment. The flexible conduit at these locations shall be as short as possible, but shall have a minimum length of 12". Flexible metallic conduit shall be used in making connections to heaters, fixed equipment or flush mounted light fixtures.
B. A green stranded bonding jumper shall be installed inside of all flexible conduit that extends directly from a non-flex conduit to a rotating or vibrating machine. Where a junction box is used, the green stranded bonding jumper shall be installed inside the flexible conduit and attached to the junction box and to the machine

3.3 CONDUIT PROTECTION:

A. All threaded joints in galvanized rigid conduit that is encased in concrete shall have a U.L. listed joint compound applied. All conduit installed outside the building underground shall be buried a minimum of 30" below finished grade but in no case shall be buried deeper than 48". Where conduit inside building is installed below the floor slab, the vapor barrier shall be run below the conduit concrete encasement. Conduit installed in any slab, where permitted above, shall be above the bottom steel and below the top steel. No conduit shall be spaced less than 3" apart. Submit conduit layout to structural consultant for review and approval prior to rough-in.
B. Conduit shall be secured in place and protected where necessary to prevent damage to work during construction. The ends of all conduit shall be plugged with suitable caps (not tape) to avoid filling with any foreign matter. All conduit shall be blown out and swabbed clear of water and trash prior to pulling wire.
C. Provide identifying marker tape the entire length of each conduit installed in the ground outside the building. The tape shall be constructed of inert polyethylene, resistant to acids, alkalis, etc., in the soil, and shall be a minimum 4 mil thickness. The tape shall be yellow, 6" wide, and shall have the words, "CAUTION - ELECTRIC LINE BURIED BELOW," imprinted with contrasting permanent ink. The imprint shall repeat itself for the entire length of the tape. The tape shall be buried at a maximum of 18" below finished grade, above a portion of the earth fill. Identify all underground and underslab conduit locations on as-buit drawings for future reference.
D. Damaged, oxidized, warped or improperly stored raceway will be removed from the jobsite and replaced with new materials. Non-metallic conduit stored on site prior to installation shall be stored on a flat surface off the ground and shall be protected from direct sunlight and debris.

3.4 CORING, CUTTING AND PATCHING:

A. Perform all coring, cutting and patching of existing walls and floors in order to install the work. Set sleeves for conduit accurately before the concrete floors are poured, or set boxes on the forms so as to leave openings in the floors in which the required sleeves can be subsequently located. Fill in the voids around the sleeves with concrete.

B. Should the performance of this preliminary work be neglected and should cutting be required in order to install conduit, then the expense of the cutting and restoring of surfaces to their original conditions shall be accomplished without incurring additions to the Contract.

3.5 BELOW GRADE RACEWAY INSTALLATION:

A. Provide and perform all excavation required to install conduit, ductbanks and manholes indicated on the drawings and/or specified. Trenches shall be of uniform width required with minimum 8" clearance on both sides. Remove and dispose of all materials not to be used for backfill. Maintain dry excavations for electrical work, by removing water. Grade areas to prevent surface water from entering excavation. Remove any accumulated water by pumping. Perform all excavation by open cut. Excavate with vertical-sided excavations where possible. Where necessary, provide sheeting and cross-bracing to sustain sides of excavations. Provide materials for shoring and bracing, such as sheet piling, uprights, stringers and cross-braces, in good serviceable condition. Establish requirements for trench shoring and bracing to comply with local codes and LAHJ. No tunneling shall be permitted.
B. The bottom of all trenches and excavation shall be graded to provide uniform bearing surface for conduits or ductbanks on undisturbed soil at every point along entire length. Tamp over excavation with specified backfill materials. Remove unstable materials unsuitable for supporting equipment or installation and replace with specified materials for a minimum of twelve (12) inches below invert of equipment or installation.
C. Specified materials shall be utilized for backfilling, in not more than six (6) inch layers and tamped until the installation has cover of not less than the adjacent grade and not more than two (2) inches above same. Remove sheeting and cross-bracing during backfilling wherever such removal would not endanger the work or other property. Equalize backfilling operation to avoid shifting of materials and equipment installed. Compaction of backfill materials shall be at least equal to surrounding undisturbed material. Backfill trenches with concrete where excavations pass within 18" of footings or other utility lines. Do not settle backfill with water. Conform to compaction requirements and methods specified elsewhere.
D. Concrete encased underground ductbanks shall be installed where indicated on the drawings. Ductbank conduits shall be non-metallic type EB, thin wall PVC with concrete encasement.
   1. Stagger couplings of adjacent conduit runs by a minimum of two (2) feet. Provide pre-fabricated conduit supports installed per manufacturer 's recommendation. Anchor ductbank assembly in trench to avoid "floating" during concrete pour.
   2. Changes in direction shall be made by the installation of long sweep bends of minimum twenty-five (25) foot radius. All 90 degree ells shall be long sweep type of minimum twenty-four (24) inch radius.
   3. Below all paving and traffic areas, all ductbank shall be reinforced with the installation of No. 5 rebar six (6) inches on center at each corner and on all sides, parallel to duct, and with continuous No. 3 rebar perpendicular to duct on sixteen (16) inch centers. Concrete cover for reinforced ductbanks shall be minimum six (6) inches with at least three (3) inches above rebar. Reinforcing of duct bank shall continue at least ten (10) feet to each side of required areas.
   4. All ductbanks shall be sloped to drain toward manholes and shall be laid with minimum grade of four (4) inches per hundred feet.

END OF SECTION

SECTION 26 05 34
BOXES AND FITTINGS

PART 1 - GENERAL

1.1 DESCRIPTION:

A. All work specified in this Section shall comply with the provisions of Section 26 00 00.
B. This Section covers the installation of all outlet boxes, pull boxes, junction boxes and wiring troughs or other boxes throughout the wiring system, including supports.
C. Outlets are located diagrammatically on the drawings. Outlets shall be located so as to be symmetrical with Architectural details.

PART 2 - PRODUCTS

2.1 GENERAL MATERIAL REQUIREMENTS:

A. All boxes shall be U. L. Listed and labeled.
B. Boxes shall be of one-piece construction, fabricated from NEC gauge galvanized steel, unless rustproof cast metal boxes are specified or required by NEC, or unless otherwise shown on the drawings.

2.2 OUTLETS:

A. Outlet boxes and covers shall be of such form and dimensions as to be adapted to their specified usage, locations, size and quantity of conduit, and size and quantity of conductors entering the boxes.
B. Outlet boxes for typical applications shall be four inch square boxes 1 1/2 " deep, with blank cover. For light fixtures, install adjacent to fixture served. Connection to fixture shall be with flexible steel conduit and fixture wire.
C. Junction boxes for branch circuit homeruns shall be minimum four inch square and 2-1/8 "
D. Flush ceiling outlets for surface or pendant mounted lighting fixtures shall be one-piece 4" square or octagonal pressed steel boxes, minimum two (2) inch depth.
E. Boxes for devices in unfinished masonry walls or stud walls shall be 4" square boxes with a square cornered tile wall cover (plaster ring), set flush with masonry or drywall construction. Where only one conduit enters box or one wiring device is provided, 2 3/4 " deep box may be used. Outlet boxes for dimmers, GFI outlets, and all other conditions shall be full depth. Use multigang boxes where more than one device is mounted together under common coverplate. Do not use sectional switch boxes.
F. Boxes in concrete ceiling slab shall be octagonal, concrete-tight two (2) inch deep concrete boxes. Welded boxes are not acceptable.
G. All outlet boxes in plaster, drywall, stucco or masonry walls or ceiling shall be provided with plaster rings.
H. Junction boxes and all outlets not indicated as containing wiring devices or lighting fixtures shall have covers. Covers for outlets in walls shall be as specified for wall switches and receptacles.
I. Outlet boxes exposed to the weather, under raised floor, used in exterior wiring system and outlet boxes for vaportight lighting fixtures and devices shall be of cast corrosion resistant type.
J. In special "Fire Rated" partitions, outlets shall comply with ASTM No. E119 and maintain fire barrier ratings.
K. Utility (handy) boxes with matching covers may be used in mechanical and electrical spaces for switches and 15A/120V receptacles.
L. Where special purpose devices are utilized and require larger outlet box than specified herein, provide outlet box suitable for specific device. These outlet boxes shall be of the same type as specified herein for the installation required. Coordinate requirements prior to rough-in installation.

2.3 JUNCTION AND PULL BOXES:

A. Dimensions of pull boxes and junction boxes shall not be less than those dimensions required by the National Electrical Code (NEC) article 314.28 for the number, size and position of conductors and raceway entering the box. Only a single extension ring shall be permitted on a box to increase the volume.
B. Pull boxes required in finished spaces shall be installed out of sight lines and located per Architect direction. Box shall be flush mounted cabinets provided with trim, hinged door and flush latch and lock to match panel trim for flush mounted electrical panelboard.
C. Pull boxes for installation of vertical riser conductors shall be provided with red seal type VVC or approved supports for all conductors as required by the NEC.
D. Pull boxes for horizontal feeders containing more than one feeder (not including parallel conductors) shall be provided with reinforced flange shall be compartmented by barriers (or feeder conductors shall be fire-taped) and provided with minimum 1 5/8 " x 1 5/8 " fiberglass channel strut (removable) for support of conductors. Wood supports within pull boxes are not acceptable.
E. Provide box covers for all junction and pull boxes of same materials and construction as box. Identify feeder or branch circuit conductors contained within on outside of cover for surface mounted boxes and within cover on flush mounted boxes.

2.4 EXTERIOR PULL BOXES & HANDHOLES:

A. Exterior pull boxes shall be Quazite "PC" style Gasketed boxes, resistant to sunlight exposure, weathering and chemicals, with solid base, penta-head security bolts, heavy duty rated cover with logo to suit purpose, with compressive strength of 11,000 psi, or approved equal. Size shall be minimum 12 w x 18 " d x 12 " h unless noted otherwise. Set assembly at final finished grade elevation.
B. Exterior handholes shall be Quazite "PG" style stackable service box assemblies resistant to sunlight exposure, weathering and chemicals, with solid base, penta-head security bolts, heavy duty rated cover with logo to suit purpose, with compressive strength of 11,000 psi, or approved equal. Size shall be minimum 24 "w x 36 "d x 18 " h unless noted otherwise. Provide extensions as required to bring assembly to final finished grade elevation.

2.5 CONDUIT BODIES & FITTINGS:

A. Conduit bodies and fittings shall be NEMA FB-1 zinc coated steel or malleable iron, taper threaded type, of material matching conduit type with gasketed cover containing captive screws.

2.6 WIRING TROUGH:

A. Wiring trough shall be NEMA 1, unless noted otherwise, hinged cover with captive screws, grey enamel finished inside and outside, 16 or 14 gauge steel as per NEC requirements. Size of trough based on NEC requirements.

2.7 PULL BOXES & ENCLOSURES:

A. Pull boxes for feeder and power conductors shall be NEMA 1 with 14 or 12 gauge galvanized steel bodies and 12 or 10 gauge galvanized steel screw covers. Seams shall be continuously welded and ground smooth. Cover screws shall be captive, stainless steel type. Provide oil-resistant gasket and adhesive. Size pullboxes as specified.
B. Enclosures for termination of special systems wiring shall be NEMA 1 panel enclosures with 14 gauge steel bodies and removable hinged doors. Provide back panel of 14 gauge steel construction and wiring terminal blocks. Enclosures shall be painted ANSI 61 and panels shall be white enamel. Size enclosures for quantity of terminations required plus 25% spare capacity.

2.8 ACCEPTABLE MANUFACTURERS:

A. Outlet boxes:
   1. Thomas & Betts
   2. Hubble/RACO
   3. Cooper Crouse-Hinds
   4. Appleton
B. Floor boxes:
   1. Thomas & Betts
   2. The Wiremold Company
   3. Hubbell
   4. American Electric
C. Poke-through devices:
   1. Hubbell
   2. The Wiremold Company
   3. Thomas & Betts
D. Exterior junction boxes & handholes:
   1. Hubbell - Quazite
   2. Appleton
   3. Hubbell - Killark
E. Conduit bodies & fittings:
   1. Adalet-PLM
   2. Myers
   3. O-Z Gedney
   4. Appleton
   5. Cooper Crouse-Hinds
F. Wiring troughs:
   1. Rittal Corporation
   2. Square D
   3. Hoffman
   4. Hubbell - Wiegmann
G. Pull boxes & enclosures:
   1. Hoffman
   2. Rittal Corporation
   3. Hubbell - Wiegmann
   4. American Electric
   5. Cooper Crouse-Hinds
   6. Square D

PART 3 - EXECUTION

3.1 INSTALLATION:

A. Provide galvanized steel or cast type boxes for all outlets, and for junction or pull boxes. All boxes shall be accessible and sized per NEC requirements. Provide access panels in any non-accessible spaces to allow access to boxes installed.
B. Provide an UL listed outlet box for each ceiling mounted fan assembly shown.
C. Where outlet boxes are used to support lighting fixtures, as junction boxes, or device outlet boxes, the box shall be anchored to the structural members of the building per NEC 314.27.
D. Outlet boxes shall be flush mounted unless they are specifically shown as being used with exposed conduit or are located above a ceiling.
E. Where outlets are supplied from conduit run in or below floor slabs, the conduit shall be stubbed up at the location shown and the wall built up around the conduit.
F. Cuts for outlet boxes in masonry walls shall be made so that the coverplate will completely cover the cut. The mounting height of switch, receptacle and other outlets may be varied slightly, with the Architect's approval, so that the outlet box, top or bottom, will occur at a masonry joint.
G. The edge of all outlet boxes shall be flush with the surface in which they are recessed. The devices that fit into the outlet boxes shall be screwed tight before the cover plate is installed and the coverplate shall not be used as a means of tightening the devices in place. Provide box extensions as required to permit the above. Coordinate fabric panels, finishes and woodwork provisions in order to determine exact requirements.
H. Where outlets are shown as being adjacent and different mounting heights are specified for each, they shall be mounted one directly over the other, on the centerline of the group.
I. Electrical outlet boxes may be installed in vertical fire resistive assemblies classified as fire/smoke and smoke partitions without affecting the fire classification, provided such openings occur on one side only in each framing space and that openings do not exceed sixteen square inches. All clearances between such outlet boxes and the gypsum board shall be completely filled with joint compound or approved fire-resistive compound. The wall shall be built around outlet boxes larger than sixteen square inches so as not to interfere with the wall rating.
J. Where low voltage device is to be installed in common boxes with line voltage device (or devices of different operating voltage), provide insulated barrier within boxes to establish separate compartments.
K. Remove only knockouts required and plug all unused openings per NEC 314.17(A)/312.5(A) requirements.
L. Extend branch circuit grounding conductor to each box. Provide grounding pigtail via dedicated fastener.
M. Outlet boxes in the same wall shall not be mounted back-to-back but shall be offset a minimum of six (6) inches, except in acoustical rated walls where 24 " is required.
N. Install pull boxes only in unfinished spaces or concealed above accessible ceilings. Provide pull boxes when any of the following conditions apply:
   1. Where indicated on the drawings.
   2. Where conduit run exceeds 150 feet from access point to access point.
   3. Where conduit run contains in excess of 360 degrees bend or offset.
   4. To facilitate conductor installation or to insure that manufacturer 's maximum pulling tension is not exceeded.
   5. Where requirements of the special system or telephone installer/vendor dictate raceway access or provisions.
O. Do not splice conductors in pull boxes. Splices are not permitted in pull boxes except where specifically approved in writing by the Engineer. Where splices are permitted, make splices as specified in Wire & Cable Specifications.
P. Where pull boxes are required, multiple circuits within pull box shall:
   1. Circuit conductors and feeders shall be individually laced with nylon straps and nylon identification tabs. Conduits shall enter pull box in such manner that conduits enter and exit in the same plane (both horizontal and vertical).
   2. Feeder circuits shall be separated by full height and length sheet metal (NEC gage) or polyester resin barrier secured with angle brackets.
Q. Where exterior junction or pull boxes are required, install in the following manner:
   1. Exterior junction or pull boxes shall be mounted flush with finished grade, unless noted otherwise. Coordinate with the final grade elevation.
   2. Heavy traffic rated covers shall be provided in sidewalks, paved areas or within six (6) feet of same.
   3. Seal conduit entries into boxes with duct seal to prevent entrance of water, after conductors are installed.
   4. Taps and splices, where permitted by these specifications, shall be performed with an encapsulating watertight connection kit which insulates and moisture seals the connection.
R. After completion, clean all work of dirt, construction debris, paint and refuse.

3.2 COVERS:

A. All junction boxes, outlet boxes, multi-gang switch boxes, utility boxes, etc., shall be covered with a coverplate. The coverplate shall be a finished plate as specified elsewhere unless designated otherwise.
B. Coverplates shall be mounted vertically unless designated otherwise.
C. Permanently mark each junction box and pull box cover with the circuit numbers for all conductors contained within. Utilize indelible ink black marker for normal power and red marker for emergency power and fire alarm.
D. All junction boxes and pull boxes for wiring systems above 600 volts shall be painted red and identified with high voltage warning labels in accordance with OSHA standards. Raceway shall be identified with the same labels installed every twenty (20) linear feet.

3.3 EQUIPMENT ANCHORING:

A. Support all boxes from structure:
   1. Secure to wood with wood or sheet metal screws.
   2. Secure to hollow masonry with toggle bolts.
   3. Secure to light gage metal with sheet metal screws.
   4. Secure to heavy gage metal with bolts or clamps.
   5. Anchors for solid masonry and concrete shall be self-drilling or insert expansion shields with bolts or powder actuated drive pin studs (except in post-tension construction).
   6. Secure outlet boxes to dry wall studs with steel mounting bracket screwed into stud having support leg to restrain box.
   7. Where box is suspended below structure, support from structure with threaded steel rod secured with double nuts. Pull boxes larger than 18 " x 18" x 8 " shall be supported from power strut and threaded steel rod suspension. Provide seismic bracing where required by local authority.
B. All items of electrical equipment, such as enclosures, panels, troughs, pull boxes, etc., shall be securely anchored to the building structure. The anchoring shall be accomplished by utilizing a minimum size of 3/8" steel anchor bolts in the structure and to the item of equipment. A minimum of two (2) anchor bolts shall be provided on each side of each item of equipment with the following exceptions:
   1. Exception No. 1: If the equipment manufacturer includes more than two (2) anchor holes per side in the base or base frame of the equipment item, then there shall be one anchor for each anchor hole.
   2. Exception No. 2: If the equipment manufacturer recommends a particular quantity greater than two (2) per side, then that quantity of anchors shall be provided.

END OF SECTION

SECTION 26 21 00
SERVICE AND DISTRIBUTION

PART 1 - GENERAL

1.1 DESCRIPTION:

A. All work specified in this Section shall comply with the provisions of Section 26 00 00.
B. This section covers describes the Electrical service entrance requirements to the building from the power company transformer.
C. Electric service shall be obtained from the local Electrical Utility Company having jurisdiction.
D. Transformers pads, barriers, clearances and primary service shall be provided and installed as directed by the Electric Utility Company rules, regulations and installation guide.
E. Electric service shall be 208/120 Volts, 3 Phase, 4 Wire, Wye connected, Ampacity as indicated on the plans.
F. Electrical Contractor shall make all arrangements with the Electric Utility that are necessary to obtain electrical service, both temporary and permanent.
G. Metering and current transformers shall be provided and installed as directed by the Electric Utility Company. This contractor shall make all provisions necessary for the installation of the Electric Utility metering equipment in accordance with utility company.
H. Electrical Contractor shall make all arrangements for temporary electrical service to the site during the construction phase, and maintain electric service to existing facilities as required.

PART 2 - PRODUCTS

2.1 SERVICE ENTRANCE CABLES:

A. Install service entrance cables as shown on drawings and as specified herein.
B. All materials and methods of construction for service provisions shall comply with the Electric Utility Company requirements.
C. Provide 4 " PVC primary conduit from the utility demarcation point to the primary side of the power company transformer. Coordinate routing with the power company representative.

PART 3 - DISTRIBUTION

3.1 INSTALLATION:

A. Obtain all necessary standards and detail drawings from the Electric Utility Company before building construction or excavation adjacent to service equipment is started.
B. Coordinate service and connections with the Electric Utility.
C. Make arrangements with the Owner and the Electric Utility Company to install, terminate, relocate, or transfer primary electric service without disruption of the normal operation of the Owner's business, or any other electric services (eg. adjacent tenants...etc.) as required. Installation cost of the electric service should included provision for the work of both the electrical contractor and utility company (if so required) for non normal work hours (eg. nighttime or weekend...etc.).

END OF SECTION

SECTION 26 24 13
SWITCHGEAR & SWITCHBOARDS

PART 1 - GENERAL

1.1 SCOPE:

A. All work specified in this Section shall comply with the provisions of Section 26 00 00.
B. This section covers the installation and provision of the Main Switchboard and associated equipment.

1.2 DESCRIPTION:

A. All distribution switchgear (branch circuit panelboards, switchboard, distribution panelboards, (busway) shall be the unit responsibility of one manufacturer. All component parts of the above listed items shall be of the same manufacturer.
B. Shop drawings for equipment specified in this Section shall show that all specified requirements have been incorporated. Shop drawings shall include a scaled drawing for each piece of equipment showing elevation and floor plan of layout in each electrical room.

1.3 METERING:

A. Metering equipment for the service entrance will be provided by the Power Company. Coordinate with the power company to receive current transformers for installation by switchboard manufacturer in a separately barrier compartment in the incoming section of the switchboard.
B. Provide a bid alternate for mounting power company current transformers in a CT cabinet mounted on the wall in the main electrical room.

1.4 QUALITY ASSURANCE:

A. Reference Standards:
   1. Section Cross Reference: Refer to Division 01, Submittals for general requirements.
   2. Underwriter's Laboratories Inc. (U.L.) " standard 891 for switchboards, standard 489 for circuit breakers.
   3. National Fire Protection Association (NFPA): - NFPA 70, 2011.
   4. National Electrical Manufacturers Association - NEMA.
   5. Institute of Electrical and Electronic Engineers - IEEE.
   6. American Society of Testing and Materials - ASTM.
   7. ANSI C37.20.1 - Metal-Enclosed Low Voltage Power Circuit Breaker Switchgear.
   8. ANSI C37.51 - Testing of Metal-Enclosed Low-Voltage AC Power Circuit Breaker Switchgear.
   9. NEMA SG-510. ANSI Z55.1 - Gray Finishes for Industrial Apparatus and Equipment.
   10. ANSI/IEEE C57.13 - Requirements for Instrument Transformers.

PART 2 - PRODUCTS

2.1 MAIN SWITCHBOARD:

A. Provide where indicated a front-accessible dead front type, completely metal enclosed, self-supporting structure independent of wall supports. It shall consist of the required number of vertical sections bolted together to form one rigid switchboard incorporating switching and protective devices of the number, ratings and type noted herein or shown with necessary interconnections, instrumentation and control wiring. Provide a voltmeter and ammeter on the main breaker with phase selector switches and required potential and current transformers. The sides, top and rear shall be covered with removable screw-on plates. Front plates shall be sectionalized and removable. All covers shall be secured by self tapping screws. Ventilation openings shall be provided where required.
   1. The feeder or branch device shall be removable from the front and shall be panel mounted with the necessary device line and load connections front accessible.
   2. All exterior and interior steel surfaces of the switchboard shall be cleaned and finished with gray hard dried enamel over a rust-inhibiting phosphatized coating.
   3. Small wiring, necessary fuse blocks and terminal blocks within the switchboard shall be furnished when required. All groups of control wires leaving the switchboard shall be provided with terminal blocks with numbering strips.
B. The buss shall be copper adequately braced and supported to withstand mechanical forces exerted during short circuit conditions. The main horizontal bus bars shall be mounted on glass polyester insulators with all three phases arranged in the same vertical plane. The main bus shall be braced for short circuits up to 65,000 amps RMS, or larger as indicated on schedule.
C. A ground bus shall be provided firmly secured to each vertical structure and shall extend the entire length of the switchboard. A ground lug shall be furnished attached to the ground bus in an accessible location.
D. Electrical circuits shall be protected by molded cased circuit breakers. Each pole shall provide inverse time delay and instantaneous circuit protection
E. Circuit breakers shall be operated by a toggle type handle and shall have a quick-make, quick- break overcenter switching mechanism that is mechanically trip-free from the handle so that the contacts cannot be held closed against short circuits and abnormal circuits. Tripping due to overload or short circuit shall be indicated by the handle's automatically assuming a position midway between the manual ON and OFF positions.
F. Breakers must be completely enclosed in a molded case. Non-interchangeable trip breakers shall have the trip unit sealed to prevent tampering. Ampere ratings shall be clearly visible. Contacts shall be of the non-welding silver alloy. Arc extinction must be accomplished by means of arc chutes.
G. All circuit breakers with frame sizes 600 amps and larger shall have solid state trip units that are insensitive to changes in ambient temperature and a push-to-trip button to mechanically check the trip mechanism or for the use under emergency trip conditions. Inter-changeable rating plugs shall establish the continuous current rating of each breaker. An interlock in the rating plug shall trip the breaker if an attempt is made to remove the plug with the breaker in the ON position. With the plug removed, it shall not be possible to close the breaker.
H. The solid state trip breakers shall provide long delay and magnetic tripping similar to thermal magnetic breakers. In addition, the magnetic trip shall include a short time delay permitting coordination and selective tripping with down-stream devices. It shall be possible to check the breaker electrically and mechanically while in service without dismantling equipment and with minimum down time.
I. Breakers 1000 amps and larger shall be provided with integral ground fault protection. They shall have an adjustable ground fault pickup, ground fault delay, zero sequence ground fault sensing and integral ground fault test button and indicator.
J. Provide Zone Selective Interlock system for all breakers rated at, or capable of being adjusted to, 1200 amps or greater, in accordance with NEC 240.87.
K. Utilize two-bolt compression type lugs throughout, in lieu of mechanical type.
L. The switchboard as a complete unit shall be given a single short circuit current rating by the manufacturer of the rating shown on the drawings. Such a rating shall be established by actual test in accordance with U.L. specifications. Unit shall be listed for use as service entrance equipment and shall utilize breakers rated for 100% duty.
M. Acceptable manufacturers are ABB (GE), Square D, Siemens or Eaton Electrical.

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PROJECT NO. 25.107 DRAWN BY KMM ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
E-0.4

BUILDING SHELL CONSTRUCTION SET

Tom Evans

WISCONSIN THOMAS L. EVANS E-19135 ATLANTA GA PROFESSIONAL ENGINEER

10/16/2025

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ELECTRICAL SPECIFICATIONS

PART 3 - EXECUTION

3.1 INSTALLATION:

A. Provide all necessary hardware to level and secure the switchgear as required by the manufacturer's instructions. Make all electrical connections for supply and load circuits and leave in operating condition.
B. Clean enclosure of all switchgear of all foreign matter, including dust.
C. All floor mounted distribution equipment shall be mounted on a 4" high concrete pad.
D. The manufacturer shall provide ground fault studies and shall provide settings for all ground fault protection equipment.
E. Contractor shall provide short circuit coordination study, including recommended settings for all adjustable devices.

3.2 PROTECTIVE DEVICE TIME-CURRENT COORDINATION STUDY:

A. Provide a protective device Time-Current Coordination (TCC) study in a computer generated format.
B. Study shall be conducted from the power company transformer to all panelboards.
C. Compute short-circuit currents as needed for use in the TCC study.
D. Study shall be prepared by a Registered Professional Engineer, experienced in this type of study and shall bear the PE's seal and signature.
E. Study shall conform to ANSI/IEEE standards.
F. Install breaker settings in accordance with TCC study after each breaker is installed.

END OF SECTION

SECTION 26 24 16
PANEL BOARDS

PART 1 - GENERAL

1.1 DESCRIPTION:

A. All work specified in this Section shall comply with the provisions of Section 26 00 00.
B. This section covers lighting and appliance panelboards and load centers.

PART 2 - PRODUCTS

2.1 PANELBOARDS:

A. Panelboards (panels) shall be general purpose enclosures and shall be surface or flush mounted as indicated. Panels shall be of the automatic circuit breaker type, factory assembled by the manufacturer of the circuit breakers. Panels shall be for the voltage indicated with the quantity of poles and ampacity of circuit breakers shown.
B. Boxes and trim shall be made from code gauge steel. Boxes shall be of sufficient size to provide a minimum gutter space of 4" on all sides. Boxes shall be minimum 20" width and 5-3/4" depth.
C. Hinged door covering all device handles shall be included in all panel trim. Doors shall have flush-type cylinder lock and catch, except that doors over 48" in height shall have auxiliary fasteners at top and bottom of door in addition to flush-type cylinder lock and catch. Door hinges shall be concealed. All locks shall be keyed alike. Directory frame and card having a transparent cover shall be furnished with each panel door.
D. Trims for flush panels shall overlap the box by at least 3/4" all around. Surface trims shall have the same width and height as the box. Trims shall be mountable by a screwdriver without the need for special tools. After installation, trim mounting mechanism or hardware shall not be accessible when panel door is closed and locked.
E. All exterior and interior steel surfaces of the trim shall be cleaned and finished with gray paint over a rust-inhibiting phosphatized coating.
F. All interiors shall be completely factory assembled with protective devices, wire connectors, and shall be so designed that devices may be changed without machining, drilling or tapping.
G. Interiors shall be so designed that devices can be replaced without disturbing adjacent units and without removing the main bus connectors.
H. Bus bars for the mains shall be of copper in accordance with U.L. Standards. Full size bars shall be included. Bus bar taps for panels with single pole branches shall be arranged for sequence phasing of the branch circuit devices.
I. Phase bussing shall be full height without reduction. Cross and center connectors shall be of the same material as the bus.
J. The neutral bus shall have 100% rating and utilize set-screws to bond the neutral wire to the neutral bus through holes drilled in the neutral bar. A sheet copper neutral bus utilizing flathead screws to hold the neutral wires will not be acceptable. Ground bus shall be sized in accordance with U.L. standards.
K. Spaces for future devices shall be molded case, included as indicated and shall be bussed for the maximum rated device that can be fitted into them.
L. All circuit breakers shall be manually operated, thermal-magnetic, automatic, of the ampacity and poles as indicated. They shall be quick-make, quick-break, on both manual and automatic operation. Breakers shall be over-the-center toggle operating type, with the handle going to a position between ON and OFF to indicate automatic tripping. All multi-pole breakers shall have internal common trip. Breakers shall have a minimum of 10,000 RMS symmetrical amperes interrupting capacity unless designated otherwise.
M. The breakers furnished shall be determined by the specifications and by the minimum U.L. labeled RMS symmetrical amperes interrupting capacity at circuit voltage. All circuit breakers shall be bolted on and rigidly braced.
N. Panels having sub-feed lugs for feeding through shall have 8" minimum extra gutter space at the lug end and on one side.
O. Each panel as a complete unit shall have a short-circuit current rating equal to or greater than the equipment rating indicated.
P. Acceptable manufacturers are ABB (GE), Square D, Siemens or Eaton Electrical.

PART 3 - EXECUTION

3.1 INSTALLATION:

A. Provide a typewritten directory under plastic for all panelboards with spares left blank.
B. Provide all necessary hardware to secure panelboards to structure as required by the manufacturer's instructions. Make all electrical connections for supply and load circuits and leave in operating condition.
C. Clean enclosure of all panelboards of all foreign matter, including dust.
D. Bond separate ground bars to panelboard boxes and to the main service entrance ground bus with a code-sized grounding conductor installed in the same conduit as the phase and neutral conductors.
E. Provide six circuit breaker handle lock-on devices for each lighting panelboard for circuits as directed by the Project Engineer to prevent unauthorized personnel from turning off circuits to controls, unit heaters, clocks, night lights, etc. Turn spare lock-on devices over to the Owner for his use.

END OF SECTION

SECTION 26 27 26
WIRING DEVICES

PART 1 - GENERAL

1.1 DESCRIPTION:

A. All work specified in this Section shall comply with the provisions of Section 26 00 00.
B. This Section covers wiring devices and cover plates including receptacles, switches, dimmer controls, plugs, plug connectors, floor outlets, concealed service floor outlets and poke-through device assemblies.

PART 2 - PRODUCTS

2.1 MANUFACTURED WIRING DEVICES:

A. Provide manufactured wiring devices and cover plates, in types, colors, and electrical ratings for applications indicated and complying with NEMA Standard WD 1. Where types and grades are not indicated, provide specification grade selection as determined to fulfill wiring requirements, and complying with NEC and NEMA standards for wiring devices. Provide white color devices and cover plates except as noted otherwise. Color selection shall be verified with the Architect prior to purchase and installation.
B. The devices specified herein are the products of one manufacturer. Provide heavy-duty specification grade devices selected from approved manufacturer listing.

2.2 WALL SWITCHES:

A. Wall switches shall be Institutional, heavy-duty specification grade, plastic body, nylon or lexan toggle, totally enclosed base & cover, quiet type, self-grounding, back wired, 277 volts AC and 20A rating.
1. Single Pole: Hubbell No. 1221
2. Double Pole: Hubbell No. 1222
3. Three-way: Hubbell No. 1223
4. Four-way: Hubbell No. 1224
B. Flush motor switches shall have a red pilot light and overload protection for actual fractional horsepower motors furnished. Square D FSJ-1P or approved equal.
C. Wall mounted occupancy sensor switches shall be factory-set at the settings indicated on the drawings.

2.3 WALL DIMMERS:

A. Wall dimmer switches shall be totally enclosed, solid state type, self-grounding, vertical slide type, thin-profile, semi-flush mounted, with square law dimming characteristics. Lamp debuzzing coils shall be provided for each circuit.
B. Dimmers shall be sized to continuously carry the indicated maximum loads shown and shall be rated to serve the load. Dimmers shall not require derating when gang mounted.
C. Where wiring devices are indicated adjacent to, and mounted with wall dimmers, provide wiring devices matching dimmer in appearance and by same manufacturer under common cover plate.
D. Dimmers indicated on the drawings to serve low voltage incandescent lamps shall be the same as specified for incandescent lamps and, in addition, shall be specifically rated for the low voltage (transformer or solid state type as required) loads. Dimmer shall be UL Listed for use with low voltage fixtures.
C. Single receptacles shall be heavy-duty specification grade, plastic base, nylon face, two-pole, three wire, self-grounding, back/side wired, 125 volts AC and NEMA 5-20R (20A) rating.
1. Single NEMA 5-20R Hubbell 5361
D. Clock outlets shall be specification grade, plastic base, phenolic face, two-pole, three wire, side wired, stainless steel plate with recessed outlet, 125 volts AC and NEMA 5-15R (15A) rating.
1. Clock outlet NEMA 5-15R Hubbell 5235
E. Special purpose outlets shall be heavy-duty specification grade, plastic base, nylon face, poles as noted, wires as noted, grounding type, back/side wired, with voltage and capacity rating noted. Conform to NEMA configuration requirements.
F. Exterior flush mounted duplex outlets shall be GFCI heavy-duty, industrial specification grade, plastic base, nylon face, two-pole, three wire, supplied with pre-stripped wire leads, feed-through protection, 125 volts AC and NEMA 5-15R (15A) recessed mounted in TayMac gasketed enclosure model Masque 72206 or approved equal. Unit assembly shall protrude no more than 1/2 " and shall be rainproof in use per NEC 406.9(B). Provide color as specified by the Architect.

2.4 RECEPTACLES:

A. Duplex receptacles shall be heavy-duty specification grade, plastic base, nylon face, two-pole, three wire, self-grounding, back/side wired, 125 volts AC and NEMA 5-15R (15A) or NEMA 5-20R (20A) rating as indicated on drawings.
1. Duplex NEMA 5-15R Hubbell CR5262
2. Duplex NEMA 5-20R Hubbell CR5362
B. Ground fault circuit interrupting (GFCI) duplex receptacles shall be heavy-duty, specification grade, plastic base, nylon face, two-pole, three wire, supplied with pre-stripped wire leads, feed-through protection, 125 volts AC and NEMA 5-15R (15A) or NEMA 5-20R (20A) rating as indicated on drawings.
1. Duplex GFCI NEMA 5-15R Hubbell GFR5262
2. Duplex GFCI NEMA 5-20R Hubbell GFR5362
C. Single receptacles shall be heavy-duty specification grade, plastic base, nylon face, two-pole, three wire, self-grounding, back/side wired, 125 volts AC and NEMA 5-20R (20A) rating.
1. Single NEMA 5-20R Hubbell 5361
D. Clock outlets shall be specification grade, plastic base, phenolic face, two-pole, three wire, side wired, stainless steel plate with recessed outlet, 125 volts AC and NEMA 5-15R (15A) rating.
1. Clock outlet NEMA 5-15R Hubbell 5235
E. Special purpose outlets shall be heavy-duty specification grade, plastic base, nylon face, poles as noted, wires as noted, grounding type, back/side wired, with voltage and capacity rating noted. Conform to NEMA configuration requirements.
F. Exterior flush mounted duplex outlets shall be GFCI heavy-duty, industrial specification grade, plastic base, nylon face, two-pole, three wire, supplied with pre-stripped wire leads, feed-through protection, 125 volts AC and NEMA 5-15R (15A) recessed mounted in TayMac gasketed enclosure model Masque 72206 or approved equal. Unit assembly shall protrude no more than 1/2 " and shall be rainproof in use per NEC 406.9(B). Provide color as specified by the Architect.

2.5 COVERPLATES:

A. Coverplates for flush mounted devices shall be one piece standard size high impact smooth nylon surface. Color shall match wiring device finishes. Device plates for masonry walls shall be jumbo type.
B. Telephone/data outlet coverplates shall be the same finish as above and have two (2) modular jack openings with blank fillers as required. All Computer Lab coverplates shall have four (4) modular jack openings.
C. Coverplates for flush mounted GFCI devices shall be premarked "GFCI PROTECTED".

2.6 PLUGS & CONNECTORS:

A. Plugs and connectors shall be of nylon construction, heavy duty specification grade, brass contacts and terminations, conforming to UL 94 & 498, with cord grips, 600 VAC working range, straight blade or locking type and NEMA type as noted.

2.7 FLOOR OUTLETS:

A. Where installation of floor mounted device box requires penetration of a fire rated floor slab, the installation shall be made with a fire rated floor fitting, U. L. Listed for use in this specific fire rated floor design. Fire barrier shall be rated to prohibit passage of smoke when heat is not present.
B. If and where required, floor outlets shall be single gang floor boxes, Steel City No. 601 Series, complete with cast iron body, vertical angular adjustment, with brass frame, brass floorplate (#P60-CACP for duplex receptacle and #P60-3/4-2-CACP for phone/data) and gasket. Larger than standard tappings shall be furnished where required. Adjacent boxes shall be installed on minimum 7" centers.

2.8 POKE-THROUGH ASSEMBLIES :

A. Flush poke-through fittings shall be U. L. Listed for fire rating, with retaining ring, suitable for use in three (3) inch core or insert, consisting of flush service fitting, poke-through device and outlet box. Fittings shall be U. L. Listed for dual service use (power and phone/data) in a single service fitting and shall have neoprene seals at base of fitting. Minimum spacing shall be two (2) feet between similar fittings. Specific fitting requirements shall be as specified on the drawings. Carpet flange with epoxy finish shall be provided.

2.9 ACCEPTABLE MANUFACTURERS:

A. Wiring devices & cover plates:
1. Cooper Industries
2. Hubbell
3. Leviton
4. Pass & Seymour (Legrand)
5. Square D
B. Wall dimmers:
1. Lutron
2. Prescolite
3. Hunt Dimming
4. Lightolier
C. Plugs & connectors:
1. Cooper Industries
2. Hubbell
3. Leviton
4. Pass & Seymour
D. Floor outlets & concealed service floor outlets:
1. Thomas & Betts
2. Hubbell
3. The Wiremold Compay

PART 3 - EXECUTION

3.1 STANDARDS COMPLIANCE:

A. Installation and provision of all specified equipment shall be in accordance with:
1. National Electrical Code NFPA 70
2. Underwriters Laboratories (UL) UL 20, 498, 943
3. National Electrical Manufacturer's Association (NEMA) NEMA STDS WD 1, 2, 5

3.2 INSTALLATION:

A. Coordinate installation roughin requirements with architectural and structural features, equipment installed under other portions of these specifications, and electrical equipment.
B. Coordinate the installation of switches and wall dimmers with the door swings to insure that the devices are located on the strike side of the door.
C. Review the architectural and/or interiors drawings and elevations for devices requiring specific locations.
D. Coordinate access to poke-through assembly junction boxes such that these are readily accessible after completion of construction.
E. The mounting height of devices is indicated in the legend on the drawings and is intended to mean the bottom of the device above the finished floor unless otherwise noted.
F. Mount all devices within outlet boxes to allow device cover plates to be in contact with wall on all sides. Verify all outlet boxes in grouping are at the same elevation.
G. Install vertically mounted receptacles with the ground connection up unless a different orientation is required by the local AHJ.
H. Install switches with " Off " position down.
I. Provide neutral conductor for occupancy sensor switches.

3.3 WIRING DEVICES:

A. Install wiring devices as indicated, in compliance with manufacturer 's written instructions, applicable requirements of NEC and NECA 's "Standard of Installation", and in accordance with recognized standard industry practices to fulfill project requirements.
B. Where more than one wiring device is indicated at a location, the devices shall be gang-mounted in combined multi-gang boxes and covered jointly by a common coverplate. Provide barriers as required by the devices and voltages being used.
C. Install wiring devices only in electrical outlet boxes which are clean, free from construction debris, drywall compound and dirt. At final inspection all wiring devices shall be clean, free of paint overspray, unbroken and in new condition.
D. Ground all wiring devices by electrically continuous, pigtail connection such that removal of device does not open grounding path to any downstream device. Connect the grounding screw of each device to the equipment grounding conductor.
E. Prior to energizing circuits, test wiring system for electrical continuity, freedom from faults, and proper polarity of connections. After energizing circuits, test wiring devices to demonstrate compliance with these requirements.
F. Provide neutral conductor to all wall-mounted occupancy sensor switches.

3.4 COVERPLATES:

A. All junction boxes, outlet boxes, multi-gang switch boxes, utility boxes, etc., shall be covered with a coverplate. The coverplate shall be a finished plate as specified unless designated otherwise.
B. Coverplates shall be mounted vertically unless designated otherwise.
C. Do not install cover plates until after painting and/or other finish work is complete.
D. Where the cover plate does not completely cover the wall opening, replace the plate with an oversized (midi or jumbo) plate or repair the wall opening. Where one oversize plate is used, replace all cover plates in the room with the oversize plates.
E. Remove concrete protectors and clean all floor boxes after concrete pour. Adjust boxes to be flush with finish floor elevation.
F. At final inspection, all wiring devices and cover plates shall be clean, without paint overspray, undamaged and unscratched or broken.

END OF SECTION

SECTION 26 51 00
LIGHTING

PART 1 - GENERAL

1.1 DESCRIPTION:

A. All work in this Section shall comply with the provisions of Section 26 00 00.
B. The equipment and materials specified in this Section shall contain no asbestos or PCB.
C. The work of this Section shall include the careful examination of the Architect/Structural and Mechanical drawings so as to become acquainted with the structural features of the building and the location of pipe and ductwork which would alter the location and spacing of outlets for fixtures. Where conflicts develop, same shall be referred to the A/E for a decision as to the proper location.
D. All fixtures shall be approved by the Owner prior to purchase. Refer to the Owner 's standards for approved fixtures.

1.2 JOB CONDITIONS:

A. Verify the compatibility of recessed lighting fixtures with the ceiling in which each fixture is to be located.

1.3 PRODUCT HANDLING:

A. Deliver fixtures sufficiently in advance of installation to prevent delay of work.
B. Store all materials in a closed building, in original packaging, and protect from damage and the elements.

1.4 SUBMITTALS:

A. Shop Drawings: Show fixture locations and support details. Materials shall not be purchased until approved. Include copy of ballast warranty for each type of ballast required.
B. Product Data:
1. Provide lighting fixture submittals in a single, bound and indexed assembly for all lighting fixtures. Incomplete submittals will be returned without processing. Fixture submittals shall contain manufacturer's name and catalog illustration and number, dimensions and details, ballast and diffuser information, metal gauges, pre-treatment and paint data, UL-ETL approval, and connection details. Provide photometric data for fixture with lamp and ballast specified. Provide information on adjustable fixtures if such type fixture is required. Provide fuse type and size when specified.
2. Provide complete ballast submittals of the exact ballast to be used for each fixture. Provide sound rating of ballast.
3. Provide complete lamp submittals of the exact lamp to be used including color temperature, color rendering index and rated lamp life.
C. Substitutions:
1. All substitution requests must be accompanied by a photometric study for both the proposed substitution and the basis of design fixture(s). Each study shall include a lighting watts per square foot calculation.

PART 2 - PRODUCTS

2.1 LIGHTING FIXTURES:

A. Fixtures shall bear U.L. and manufacturer's label. Furnish and install lighting fixtures as indicated and specified, complete with lamps, required ballasts and accessories. All fixtures shall be provided with Department of Energy lighting facts label.
B. All recessed incandescent fixtures shall comply with Article 410.115(C) of the N.E.C.
C. Each lighting fixture shall have been tested and certified for proper operation by the fixture manufacturer for the type mounting and ceiling on/in which it is installed.
D. Confirm exact locations of all lighting fixtures by coordination with the Architectural Reflected Ceiling Plans and mechanical equipment above or on the ceiling. Confirm all ceiling types before ordering lighting fixtures. Each recessed lighting fixture shall have a trim to match the type of ceiling (plaster, exposed grid, concealed spline, exposed panel, etc.) in which it is being installed, regardless of catalog number given. Each lighting fixture recessed in a plastered ceiling of any type shall have a plaster frame.
E. Most lighting outlets are lettered or groups of outlets are indicated by a letter. The lighting fixtures that are indicated by the letters shall be as indicated on the Lighting Fixture Schedule.
F. Each fixture shall be supplied with the necessary straps, supports, hangers, or other miscellaneous materials and devices to install them in a satisfactory manner and to conform to the Architectural treatment in the areas in which they are to be installed. The Electrical Contractor shall consult all Architectural plans in order that he may familiarize himself with all the necessary details for the various units to be installed throughout the building. Failure to do this will not relieve him of the responsibility of furnishing all necessary materials, to perform the function intended for the lighting system shown on the drawings.
G. Unless specified otherwise, all prismatic diffusers for fluorescent lighting fixtures shall be prismatic acrylic KSH K12 with a thickness of 0.125", measured from the back side to the peak of the prism. All wraparound lenses shall be virgin acrylic, one-piece and injection molded.
H. Fixtures with highly polished reflective surfaces shall not be handled with bare hands, but with clean, grease-free cotton gloves. Surfaces found with finger prints shall be cleaned or replaced with new fixtures.
I. Fixtures shall be furnished with special anodized finishes and colors as indicated in the Lighting Fixture Schedule. Fixtures with special factory applied baked enamel finish must conform to a color sample supplied by the Architect/Engineer. Full-size finished samples of each fixture with special finish and/or color shall be delivered to the Architect/Engineer for written approval when requested.
J. Prior to the application of any finish, all metal parts of all fixtures shall be protected by a rust-inhibiting process. the rust-inhibiting process shall be chemical. No type of sprayed, painted, or dipped primer may be used as the basic rust inhibitor. Any fixtures and /or parts of any fixtures which shall have begun to show signs of rusting or corroding at the time of completion of the job shall be removed and replaced by properly protected metal parts.
K. Fixtures shall be constructed to provide continuous operation when installed in air plenums, or when surrounded with restrictive enclosures. Where space above ceiling is used as an air plenum changer for either supply or return air, the fixture shall be factory wired in accordance with Article 300.22 of the NEC.
L. The exit lighting fixtures shall be U.L. listed, meet the requirements of Federal, State and Local codes for handicapped occupants and coordinated with the building fire safety systems.
M. LED fixtures shall comply with UL Standard 8750, with IES Standards LM-79 and LM-80, and shall have a parts and labor warranty of 5 years minimum on the fixtures and components.
1. User serviceable LED lamps and drivers shall be replaceable from the room side.
2. Dimmable LED fixtures shall have either a 0-10 volt, 3-wire dimming driver, or a two-step (50%-100%) line voltage, two switch controlled dimming driver.

2.2 LAMPS:

A. General:
1. The type lamps shall be as specified for each lighting fixture in the Lighting Fixture Schedule.
2. The lamp catalog number is for General Electric and is given as a standard of the quality and performance required. Equal lamps by Sylvania, Philips or Westinghouse will be acceptable. When a lamp manufacturer's name is used along with the catalog number in the Lighting Fixture Schedule, it is considered unequaled by any other lamp and shall not be substituted. The lamp performance with energy conserving ballasts furnished under this Section shall be certified by a nationally recognized independent testing laboratory.
3. Contractor shall replace any lamps damaged during shipping or installation with lamps of like manufacturer to those installed in the fixture. Lamps used during construction shall be replaced with new lamps prior to final inspection.
B. Fluorescent Lamps shall be as specified in the Lighting Fixture Schedule.
C. Incandescent Lamps:
1. "A" type lamps shall be inside frosted, except where specified to be clear.
2. "R" and "PAR" type lamps shall have the beam type (spot or flood) as specified in the Lighting Fixture Schedule.
3. Quartz tubes shall be frosted.
4. All incandescent lamps, except quartz tubes, shall be rated for 130 volt operation.
5. All MR-16 lamps shall be by the same manufacturer and shall have the same lot code or number stamped on the lamp.
6. Handle all quartz lamps with clean cotton gloves.
D. High Intensity Discharge (HID) lamps shall be the voltage and type specified in the Lighting Fixture Schedule.

2.3 BALLASTS AND DRIVERS:

A. Provide ballasts of the proper voltage rating to match the circuit voltage from which the units are supplied. All ballasts shall bear the UL label.
B. Fluorescent ballasts shall be the high frequency (20KHZ or greater) electronic type with a minimum power factor of 95 percent and a total harmonic distortion rating of no greater than 20 percent. Ballast shall be U.L. listed, non-PCB, have a class "A" sound rating and shall meet the requirements of the Federal Communications Commission Rules and Regulations, Part 18, Class A. Fluorescent ballasts shall have an automatic resetting thermostat to provide class P protection.
C. Provide low temperature starting ballasts of required type for outdoor fixtures and in unheated areas. Starting temperature shall be 0 degrees Fahrenheit.
D. Ballasts for Metal Halide lamps and High-Pressure Sodium lamps shall be properly selected for lamp characteristics, operating temperatures and lamp position, where critical. Ballasts shall be HPF type.
E. Noisy ballasts shall be replaced at no additional cost to Architect/Engineer. Ballasts for indoor application shall be enclosed in a housing which provides necessary wiring compartments and provisions for required electrical connectors or devises. Ballast components shall be surrounded with a thermosetting fill to ensure adequate heat dissipation and quiet operation below local ambient noise level. Ballast shall be provided with necessary mounting hardware and vibration dampers.

2.4 EMERGENCY BATTERIES:

A. Where applicable, fixtures shall be provided with emergency battery packs for life safety support Battery packs will not be required where a life safety generator system is provided elsewhere.
B. Provide 24-hour, uninterrupted, unswitched power to all emergency battery packs.
C. Linear fluorescent fixtures shall be provided with battery pack to operate two lamps at 1300 lumens for a minimum of 90 minutes.
D. For HID fixtures, provide battery backup ballasts in lieu of quartz restrike for generator applications. Provide Philips Bodine ARC Keeper or equivalent. These are NOT to be considered life safety batteries where no generator is present.

PART 3-EXECUTION

3.1 SUPPORT OF LIGHTING FIXTURES:

A. All lighting shall be supported from the building structure. The fixtures shall be supported in a manner that will ensure the fixture's weight being equally distributed from each support and the fixture remaining in a level position.
B. Fixtures installed recessed in a suspended ceiling system shall be supported from the building structure with two (2) 12-gauge wires on diagonal corners of the fixture. In addition, the fixture shall be clipped to members of the ceiling suspension system by approved support means from 410.36(B) or the manufacturer's listed means of support.
C. Fixtures installed in or on any ceiling other than a suspended ceiling system specifically mentioned above shall be supported with concealed steel rods or jack chain. Rods shall be 1/4" diameter minimum, and shall be located where recommended by the fixture manufacturer. Provide a minimum of two (2) supports for each 4' or 8' fixture chassis. Supports shall be maximum of 48" centers. For incandescent fixtures, steel hanging wire may be used by attaching the wire to the fixture mounting frame.
D. Pendant-mounted fixtures shall be stem supported by a fixture stud mounted in the outlet box. Suspended fixtures shall be supported as detailed on the drawings.
E. No light fixtures shall be supported from ductwork, sprinkler piping, or any other foreign systems.

END OF SECTION

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FOR CONSTRUCTION

La-Z-Boy
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ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ELECTRICAL SPECIFICATIONS

STORE NAME:
LA-Z-BOY - LA CROSSE

SHEET NO.
E-0.5

BUILDING SHELL CONSTRUCTION SET

Tom Evans
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Date: 2025.10.16 09:24:49 -05'00'

WISCONSIN REGISTERED PROFESSIONAL ENGINEER THOMAS L. EVANS E-10195 ATLANTA GA

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Project No: 2550-01885

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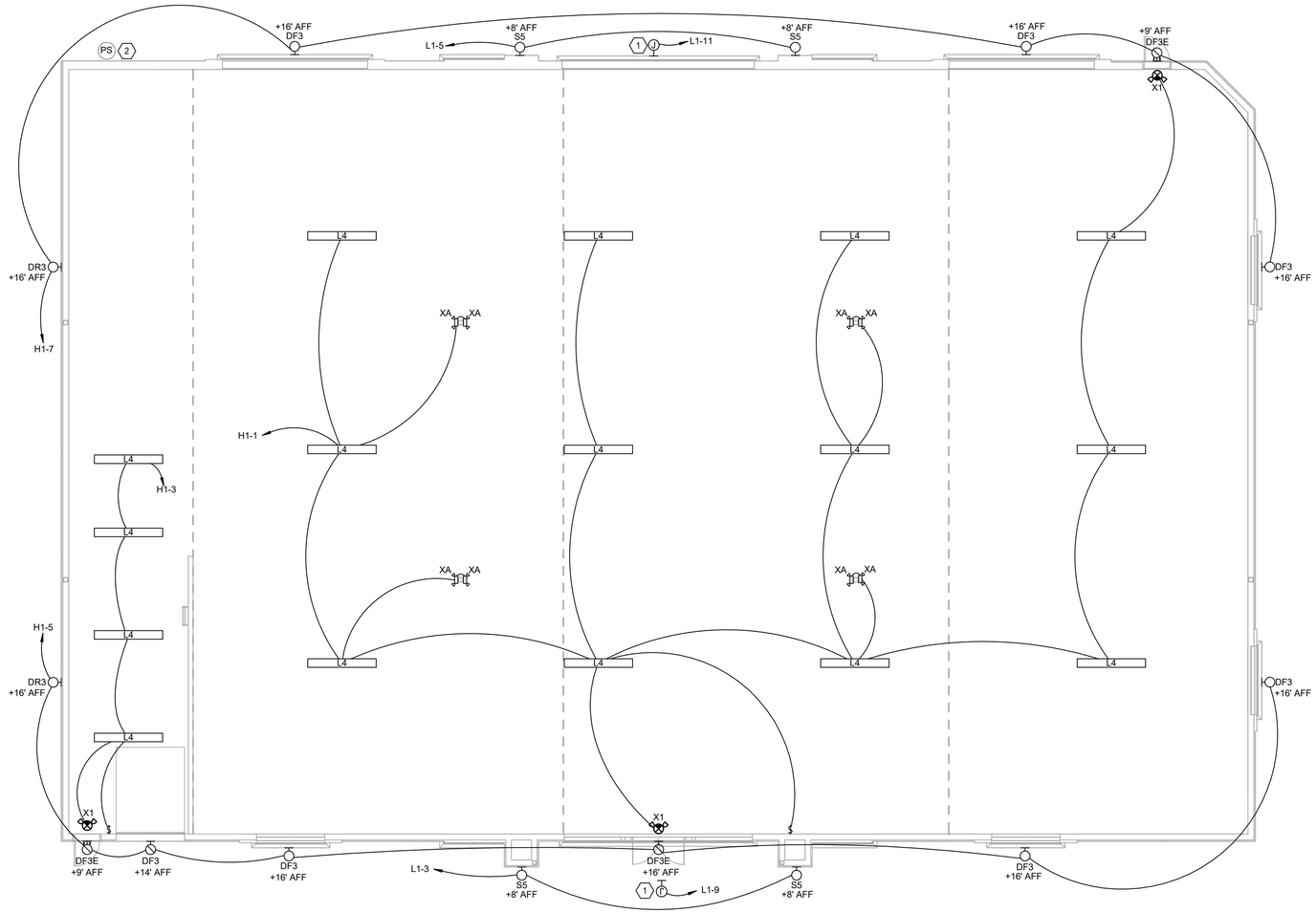

1 / E-1.1 LIGHTING FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES SHOWN.
2. REFER TO LIGHTING FIXTURE SCHEDULE ON E-0.1.
3. PROVIDE ADDITIONAL, UNSWITCHED "HOT" CONDUCTOR, WIRED AHEAD OF LOCAL SWITCH TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
4. ALL OVERHEAD CONDUIT WHERE CEILING IS OPEN TO STRUCTURE SHALL BE TYPE EMT AND ROUTED IN A NEAT, WORKMAN LIKE MANNER AT 90 DEGREE ANGLES. ENSURE COORDINATION WITH OTHER TRADES TO MINIMIZE CONFLICT AND APPEARANCE. CONDUIT IS TO BE TIGHT AND RUN WITH BUILDING STRUCTURE.

KEYED NOTES:

1. PROVIDE JUNCTION BOX FOR BUILDING EXTERIOR SIGNAGE. SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT. PROVIDE LOCAL DISCONNECTING MEANS.
2. PROVIDE DIGITAL PHOTOCELL. PROVIDE PLENUM RATED LOW VOLTAGE WIRING FROM PHOTOCELL TO RELAY PANEL. LOCATE ON NORTH SIDE OF BUILDING APPROX. 16' A.F.G. CONTROL VIA TIME CLOCK CONTROLLED CONTACTOR.

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ISSUED FOR:
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SHEET TITLE:
LIGHTING PLAN

STORE NAME:
LA-Z-BOY - LA CROSSE

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SHEET NO.
E-1.1

BUILDING SHELL CONSTRUCTION SET

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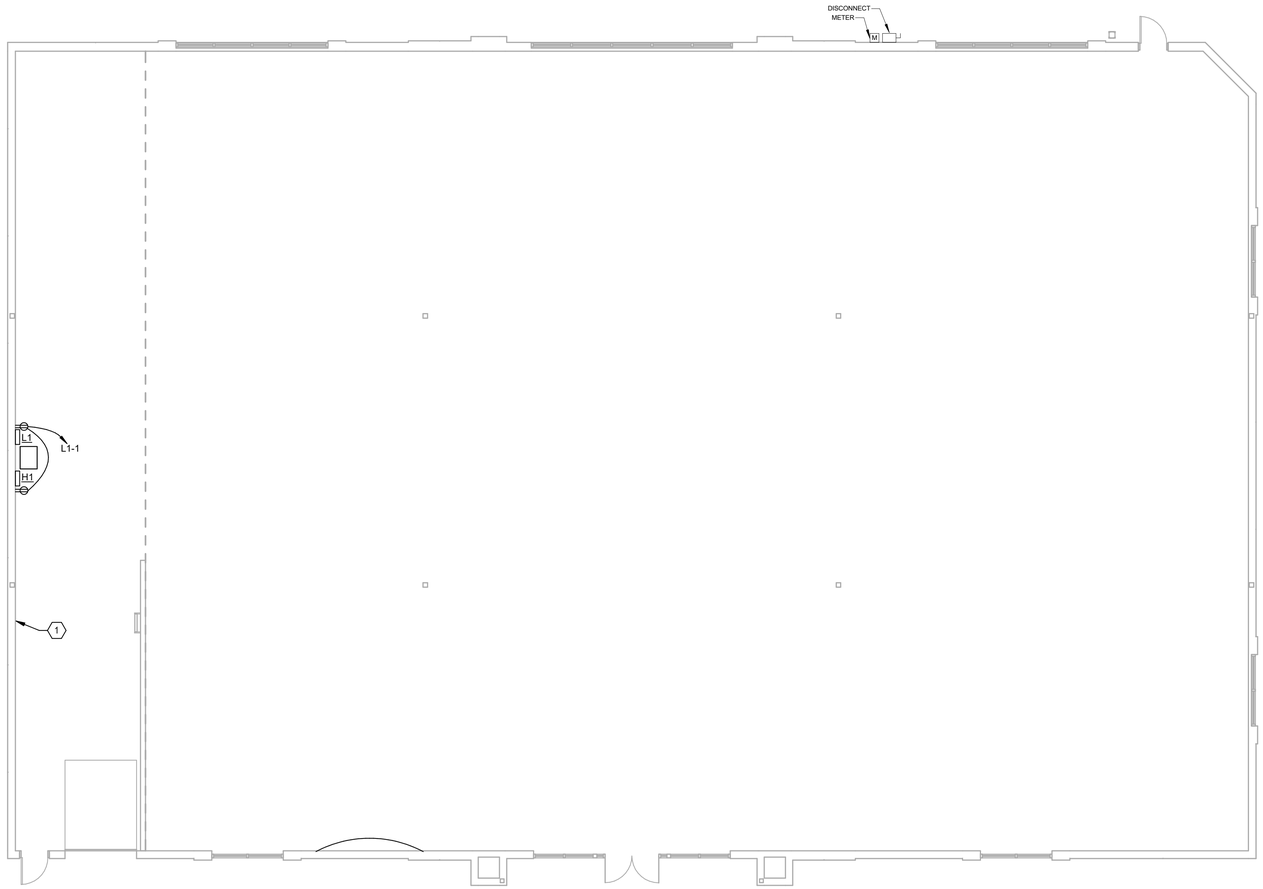

1 E-2.1 ELECTRICAL FLOOR PLAN
1/8" = 1'-0"

KEYED NOTES:

1 PROVIDE REMOTE INDICATORS FOR DUCT SMOKE DETECTORS IN ROOFTOP UNITS.

GENERAL NOTES:

1. PROVIDE TYPEWRITTEN, UPDATED PANEL SCHEDULES IN ALL PANELBOARDS AFFECTED BY THIS FITUP.
2. SPECIFIC REQUIREMENTS REGARDING MATERIALS, WORKMANSHIP AND THE WORK TO BE DONE ARE COVERED BY THE SPECIFICATIONS WHICH COMPLEMENT THE PLANS. WORK CALLED FOR BY THE SPECIFICATIONS OR THE PLAN IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS OF THE TWO SHALL APPLY UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
3. ALL NEW DEVICES AND COVERPLATES. REFER TO ARCHITECTURAL FINISH PLANS FOR COVERPLATES.
4. CONTRACTOR SHALL CONFIRM OFFICE DEVICE DIMENSIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
5. ALL MULTI-WIRE BRANCH CIRCUITS SERVING SYSTEMS FURNITURE SHALL BE PROVIDED WITH COMMON TRIP MULTI-POLE CIRCUIT BREAKERS FOR ALL PHASES WITH A SHARED NEUTRAL IN ACCORDANCE WITH NEC 210.4(B).
6. CONTRACTOR SHALL SCAN FLOOR PRIOR TO ANY FLOOR PENETRATIONS AND CORES. EXACT LOCATIONS OF PENETRATIONS AND CORES MUST BE APPROVED BY BUILDING ENGINEER. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF NEW POKE-THRU DEVICES WITH TENANT'S REPRESENTATIVE AND STRUCTURE BELOW PRIOR TO CORING. COORDINATE ALL CONDUIT REQUIREMENTS WITH AV VENDOR AND FURNITURE PROVIDER PRIOR TO PURCHASING.
7. ALL OVERHEAD CONDUIT WHERE CEILING IS OPEN TO STRUCTURE SHALL BE TYPE EMT AND ROUTED IN A NEAT, WORKMANLIKE MANINER AT 90 DEGREE ANGLES. ENSURE COORDINATION WITH OTHER TRADES TO MINIMIZE CONFLICT AND APPEARANCE.
8. PROVIDE UL LISTED JUNCTION BOXES FOR NEW POWER AND COMMUNICATION OUTLETS WITHIN FIRE RATED ASSEMBLIES.
9. ALL AV AND LOW VOLTAGE BACKBOX LOCATIONS SHOWN SHALL BE COORDINATED WITH EQUIPMENT VENDORS PRIOR TO INSTALLATION.
10. REFER TO ARCHITECTURAL DRAWINGS FOR ORIENTATION OF ALL OUTLET DEVICES.
11. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH NAMEPLATE DATA OF ACTUAL EQUIPMENT PROVIDED.

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SHEET TITLE:
ELECTRICAL PLAN

STORE NAME:
LA-Z-BOY - LA CROSSE

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Project No: 2550-01885

SHEET NO.
E-2.1

BUILDING SHELL CONSTRUCTION SET

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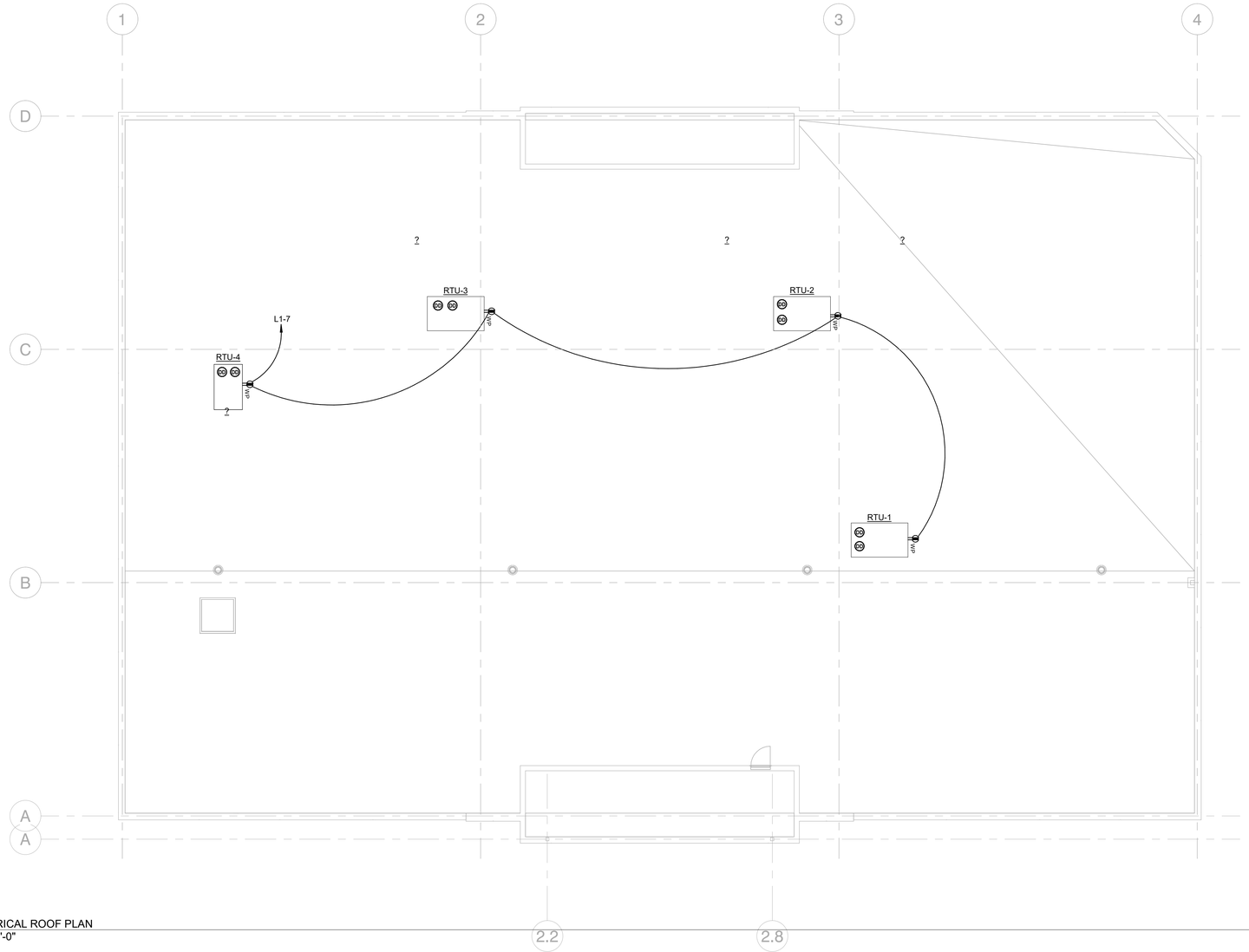

1 E-2.2 ELECTRICAL ROOF PLAN
1/8" = 1'-0"

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SHEET TITLE:
ELECTRICAL ROOF PLAN

STORE NAME:
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SHEET NO.
E-2.2

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Project No: 2550-01885

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BRANCH PANEL: H1

SUPPLY FROM:
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 480/277 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 22000
MAINS TYPE: MLO
MAINS RATING: 400 A
FEED THRU LUGS: NO

CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT
1	LTG - FRONT	20	1	540	5000		3	40	RTU-3	2
3	LTG - ELEC/STOCK	20	1		180	5000	--	--	--	4
5	LTG - EXTERIOR	20	1			364	5000	--	--	6
7	LTG - EXTERIOR	20	1	260	1660		3	15	RTU-4	8
9	RTU-1	40	3		5000	1660	--	--	--	10
11	--	--	--			5000	1660	--	--	12
13	--	--	--	5000	0		1	20	SPARE	14
15	RTU-2	40	3		5000	0	1	20	SPARE	16
17	--	--	--			5000	0	1	20	SPARE	18
19	--	--	--	5000	0		1	20	SPARE	20
21	SPARE	20	1		0	0	1	20	SPARE	22
23	SPARE	20	1			0	0	1	20	SPARE	24
25	SPARE	20	1	0	0		1	20	SPARE	26
27	SPARE	20	1		0	0	1	20	SPARE	28
29	SPARE	20	1			0	0	1	20	SPARE	30
31	SPACE	--	1	--	--		1	--	SPACE	32
33	SPACE	--	1		--	--	1	--	SPACE	34
35	SPACE	--	1			--	--	1	--	SPACE	36
37	SPACE	--	1	--	1189		3	125	PANEL L1 (VIA T-1)	38
39	SPACE	--	1		--	333	--	--	--	40
41	SPACE	--	1			--	524	--	--	42
	TOTAL LOAD (VA):			18649	17173	17548				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...
HVAC	49980 VA	100.00%	49980 VA
Receptacle	1080 VA	100.00%	1080 VA
Lighting	1638 VA	125.00%	2048 VA
LTG	672 VA	100.00%	672 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD...	53
TOTAL DEMAND LOAD (KVA):	54
TOTAL CONNECTED LOAD (A):	64
TOTAL DEMAND LOAD (A):	65

NOTES:

BRANCH PANEL: L1

SUPPLY FROM: T-1
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

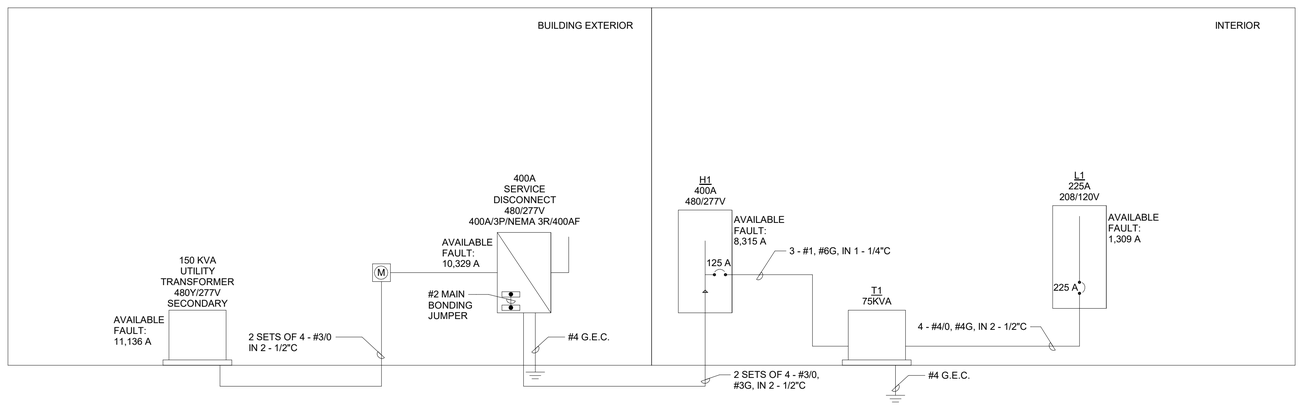
A.I.C. RATING: 10000
MAINS TYPE: MCB
MAINS RATING: 225 A
MCB RATING: 225 A
FEED THRU LUGS: NO

CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - ELEC	20	1	360	109		2	20	SITE LTG	2
3	LTG - ENTRANCE	20	1		24	109	--	--	--	4
5	LTG - ENTRANCE	20	1			24	0	1	20	SPARE	6
7	REC ROOF	20	1	720	0		1	20	SPARE	8
9	EXTERIOR BUILDING SIGN	20	1		200	0	1	20	SPARE	10
11	EXTERIOR BUILDING SIGN	20	1			500	0	1	20	SPARE	12
13	SPARE	20	1	0	0		1	20	SPARE	14
15	SPARE	20	1		0	0	1	20	SPARE	16
17	SPARE	20	1			0	0	1	20	SPARE	18
19	SPARE	20	1	0	0		1	20	SPARE	20
21	SPARE	20	1		0	0	1	20	SPARE	22
23	SPARE	20	1			0	0	1	20	SPARE	24
25	SPARE	20	1	0	0		1	20	SPARE	26
27	SPARE	20	1		0	0	1	20	SPARE	28
29	SPARE	20	1			0	0	1	20	SPARE	30
31	SPARE	20	1	0	0		1	20	SPARE	32
33	SPARE	20	1		0	0	1	20	SPARE	34
35	SPARE	20	1			0	0	1	20	SPARE	36
37	SPARE	20	1	0	0		1	20	SPARE	38
39	SPARE	20	1		0	0	1	20	SPARE	40
41	SPARE	20	1			0	0	1	20	SPARE	42
43	SPARE	20	1	0	0		1	20	SPARE	44
45	SPARE	20	1		0	0	1	20	SPARE	46
47	SPARE	20	1			0	0	1	20	SPARE	48
49	SPARE	20	1	0	0		1	20	SPARE	50
51	SPARE	20	1		0	0	1	20	SPARE	52
53	SPARE	20	1			0	0	1	20	SPARE	54
55	SPARE	20	1	0	0		1	20	SPARE	56
57	SPARE	20	1		0	0	1	20	SPARE	58
59	SPARE	20	1			0	0	1	20	SPARE	60
61	SPARE	20	1	0	0		1	20	SPARE	62
63	SPARE	20	1		0	0	1	20	SPARE	64
65	SPARE	20	1			0	0	1	20	SPARE	66
67	SPARE	20	1	0	0		1	20	SPARE	68
69	SPARE	20	1		0	0	1	20	SPARE	70
71	SPARE	20	1			0	0	1	20	SPARE	72
73	SPARE	20	1	0	0		1	20	SPARE	74
75	SPARE	20	1		0	0	1	20	SPARE	76
77	SPARE	20	1			0	0	1	20	SPARE	78
79	SPARE	20	1	0	0		1	20	SPARE	80
81	SPARE	20	1		0	0	1	20	SPARE	82
83	SPARE	20	1			0	0	1	20	SPARE	84
	TOTAL LOAD (VA):			1189	333	524				

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...
Receptacle	1080 VA	100.00%	1080 VA
Lighting	918 VA	125.00%	1148 VA
LTG	48 VA	100.00%	48 VA

PANEL TOTALS	
TOTAL CONNECTED LOAD (KVA):	2
TOTAL ESTIMATED DEMAND...	2
TOTAL CONNECTED LOAD (A):	6
TOTAL DEMAND LOAD (A):	6

NOTES:
1. PROVIDE GFCI BREAKER.



1 / E-3.1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

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SHEET TITLE:
ELECTRICAL SCHEDULES

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COMcheck-Web™

Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	LZB La Crosse
Location:	La Crosse, Wisconsin
Climate Zone:	6a
Project Type:	New Construction
Project No:	55175
All Electric:	false
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:
Valley View Mall Development
La Crosse , Wisconsin 54601

Owner/Agent:

Designer/Contractor:

Notes:

Energy Credits

Description	Credit
Reduced Lighting Power	1.0

Credits: 1.0 Required 1.0 Proposed

Building Area

Description	Floor Area
1-Retail (Retail) : Nonresidential	12892

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	LZB La Crosse
Location:	La Crosse, Wisconsin
Climate Zone:	6a
Project Type:	New Construction

Construction Site:
Valley View Mall Development
La Crosse , Wisconsin 54601

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Sales Showroom (Retail:Sales Area)	12892	1.43	18435.6
Total Allowed Watts:			18436

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Sales Showroom (Retail:Sales Area)				
L4: L4: LED:	0	16	45	720
Total Proposed Watts:				720

Proposed Interior Lighting Controls

Fixture	Lighting Control
1-Sales Showroom (Retail:Sales Area)	
L4: L4: LED:	Occupancy Sensor, Manual Control

Interior Lighting PASSES: Design 96% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kevin Mairena - Salas O'Brien 10/09/2025

Name - Title **Signature** **Date**

Exterior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	LZB La Crosse
Location:	La Crosse, Wisconsin
Climate Zone:	6a
Project Type:	New Construction
Exterior Lighting Zone:	Light industrial area with limited nighttime use (LZ2)

Construction Site:
Valley View Mall Development
La Crosse , Wisconsin 54601

Owner/Agent:

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / ft2	D Tradable Wattage	E Allowed Watts (B X C)
Ext Area (Sales lot street frontage)	460 ft	10.00	No	4600.0
Total Tradable Watts (a):				4600
Base Site Allowance (b):				600
Total Allowed Watts:				5200

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A base site allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Ext Area (Sales lot street frontage, 460 ft): Tradeable Wattage				
DF3: DF3: LED:	0	8	52	416
DR3: DF3: LED:	0	2	52	104
S5: S5: LED:	0	4	12	48
Total Tradable Proposed Watts:				568

Proposed Exterior Lighting Controls

Fixture	Lighting Control
Ext Area (Sales lot street frontage, 460 ft)	
DF3: DF3: LED:	Daylight Shutoff, Exterior Timeswitch
DR3: DF3: LED:	Daylight Shutoff, Exterior Timeswitch
S5: S5: LED:	Daylight Shutoff, Exterior Timeswitch

Exterior Lighting PASSES: Design 89% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kevin Mairena - Salas O'Brien 10/09/2025

Name - Title **Signature** **Date**

Report Title: LZB La Crosse Report Date: 10/9/25, 1:26 PM

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PROJECT NO. 25.107 DRAWN BY KMM ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY. 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
COMPLIANCE REPORT

STORE NAME:
LA-Z-BOY - LA CROSSE

Tom Evans

Digitally signed by Tom Evans
DN: C=US, E=tom.evans@salasobrien.com, O=Salas O'Brien, CN=Tom Evans
Date: 2025.10.16 10:52:34-04'00'

WISCONSIN THOMAS L EVANS E-101195 ATLANTA GA PROFESSIONAL ENGINEER

10/16/2025

Salas O'Brien
salasobrien.com 404-881-5300
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project No: 2550-01885

SHEET NO.
E-4.1

BUILDING SHELL CONSTRUCTION SET

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Autodesk Docs://2550-01885 - La-Z-Boy La Crosse/2550-01885-MEP.rvt
10/16/2025 9:02:04 AM

GENERAL NEW CONSTRUCTION NOTES:

1. CIRCUITS INDICATED ARE INTENDED TO DENOTE WHICH DEVICES/FIXTURES ARE TO BE WIRED TO A COMMON CIRCUIT BREAKER, AND NOT ITS POSITION IN THE PANEL. REBALANCE LOADS BETWEEN PHASES (MAX. 7.5%) UPON COMPLETION OF WIRING.

2. BRANCH CIRCUITS FOR RECEPTACLES MOUNTED ON ROOF TOP EQUIPMENT MAY BE ROUTED UP THROUGH UNIT CURB OR UNIT ITSELF IF RECOMMENDED BY ROOF TOP EQUIPMENT MANUFACTURER.

3. NEW EXIT LIGHTS SHALL BE WIRED TO THE NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA THAT EXIT LIGHT IS INSTALLED.

4. ELECTRICAL RACEWAYS AND BOXES SHALL BE CONCEALED IN CEILING CAVITY OR IN WALLS WHERE POSSIBLE, OTHERWISE RACEWAY SHALL BE EXPOSED WIREMOLD TYPE. 200, 500 OR 700 AS NECESSARY TO ACCOMMODATE WIRES.

5. ELECTRICAL RACEWAYS AND BOXES SHALL BE CONCEALED IN CEILING CAVITY OR IN WALLS. EXPOSED RACEWAYS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY INDICATED AND/OR APPROVED BY A/E.

6. EXACT LOCATION OF SPECIAL PURPOSE OUTLETS SHALL BE VERIFIED IN FIELD. VERIFY SPECIFIC WIRING REQUIREMENTS WITH VENDORS' DRAWINGS/INSTRUCTION. COORDINATING ELECTRICAL WORK WITH WORK OF VENDOR AND OTHER TRADES.

7. INCLUDE FISH WIRE IN ALL NON-POWER CONDUITS.

8. VERIFY EXACT LOCATION OF LIGHTING FIXTURES IN THE FIELD TO AVOID CONFLICT WITH MECHANICAL EQUIPMENT, DUCT WORK, AND PIPES.

9. PAINT ALL EXPOSED CONDUIT TO MATCH ADJACENT AREAS.

10. FIRE AND/OR SMOKE RATINGS OF WALLS, FLOORS AND CEILINGS SHALL BE MAINTAINED. IF THE INTEGRITY IS SACRIFICED THEN THE BARRIER SHALL BE REPAIRED TO ITS ORIGINAL RATING. ALL PENETRATIONS SHALL BE PROPERLY SEALED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING AND AIMING ALL FIXTURES TO THE OPTIMUM DISTRIBUTION AND OWNER'S SATISFACTION.

12. COORDINATE CABLE TYPES AND INSTALLATIONS FOR WORK ABOVE CEILING WITH HVAC FOR PLENUM VS. NON-PLENUM RATING OF CEILING SPACE. INSTALLATION SHALL FOLLOW GUIDELINES FOR RATINGS OF CEILING CAVITY.

13. VERIFY LOCATION OF MARKER BOARDS, TACK BOARDS, ARTWORK, SIGNS AND ANY OTHER WALL MOUNTED ITEMS PRIOR TO ROUGH-IN OF FIRE ALARM DEVICES AND ANY OTHER WALL MOUNTED DEVICE. DO NOT ROUGH IN BEHIND BOARDS.

14. ALL SPEAKERS, LIGHTS FIXTURES, FIRE ALARM DEVICES, CLOCKS AND SIMILAR DEVICES IN GYM AREA SHALL HAVE WIRE GUARDS OR SHIELDING TO PROTECT THE EQUIPMENT FROM DAMAGE.

15. WHEN THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED, ALL ELECTRICAL SOURCES SERVING COOKING APPLIANCES AND EQUIPMENT ASSOCIATED WITH THE HOODS SHALL BE AUTOMATICALLY DEACTIVATED VIA A SHUNT TRIP CIRCUIT BREAKER INTERCONNECTED TO THE HOOD FIRE SUPPRESSION SYSTEM SHUTDOWN CIRCUIT. THE HOOD EXHAUST FAN SHALL REMAIN IN OPERATION UNLESS NOTED OTHERWISE.

16. SEE MECHANICAL/ELECTRICAL SHEETS FOR ELECTRICAL INFORMATION OF HVAC EQUIPMENT INDICATED ON DRAWINGS.

17. JUNCTION BOXES INSTALLED IN EXTERIOR WALLS SHALL NOT PENETRATE THE VAPOR BARRIER. IF THE INTEGRITY IS SACRIFICED THEN THE BARRIER SHALL BE REPAIRED TO ORIGINAL RATING.

18. RECEPTACLE LOCATED IN AREAS OF CHILDREN SHALL BE TAMPER TYPE.

19. PLASTIC TIE WRAPS SHALL NOT BE USED TO SUPPORT ANY RACEWAYS OR OPEN AIR WIRING.

20. FIRE ALARM DEVICES MAY BE SHOWN OFF CENTERED SO THAT ROOM NAMES AND NUMBERS ARE VISIBLE. CONTRACTOR SHALL CENTER THESE DEVICES IN THE ROOMS ACCORDINGLY.

ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AF	AMP FUSE
AFC	AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECT
AFG	ABOVE FINAL GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AR	AS REQUIRED
AS	AMP SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
BFG	BELOW FINAL GRADE
C	MOUNTED 6" ABOVE COUNTER
CAB	CABINET
CB	CIRCUIT BREAKER
cd	CANDELA
CKT	CIRCUIT
CLG	CEILING
CONC	CONCRETE
CP	CONTROL PANEL
CS	COMBINATION STARTER/DISC. SWITCH
D	DISCONNECT SWITCH
DISC	DISCONNECT SWITCH
DLS	DUAL LEVEL SWITCH
DN	DOWN
DNLT	DOWN LIGHT
EWC	ELECTRIC WATER COOLER
E.C	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EP	EXPLOSION PROOF
ER	EXISTING TO BE REMOVED
EXP	EXPOSED
EXR	EXISTING IN NEW LOCATION
EX	EXISTING TO REMAIN
EXT	EXISTING TO BE RELOCATED
F	FURNISHED
FBO	FURNISHED BY OTHER
FIXT	FIXTURE
FLUOR	FLUORESCENT
G.C.	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTING
GRC	GALVANIZED RIGID CONDUIT
GYP	GYPSUM BOARD
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND
HV	AIR CONDITIONING CONTRACTOR
HW	HEAVYWALL
IMC	INTERMEDIATE METAL CONDUIT
I	INSTALLED
IU	INTEGRAL TO UNIT
JB	JUNCTION BOX
KW	KILOWATT
LIG	LAY-IN GRID
LOC	LOCATION
LTG	LIGHTING
MAG	MAGNETIC STARTER
MAN	MANUAL STARTER
MC	MECHANICAL CONTRACTOR
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
NU	NEAR UNIT
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
O	OTHERS
OC	ON CENTER
ORS	OVER RIDE SWITCH
OU	ON UNIT
P	POLE
PC	PHOTOCELL
PEND	PENDANT
PLBG	PLUMBING CONTRACTOR
PNL	PANEL
PB	PUSH-BUTTON
R	RECEPTACLE
RAI	REMAIN AS IS
REC	RECESSED
SS	SWITCH STATION
SURF	SURFACE
SUSP	SUSPENDED
SW	SWITCH
TC	TIME CLOCK
TCC	TEMPERATURE CONTROL CONTRACTOR
TYP	TYPICAL
UM	UNIT MANUFACTURER
VER	VERIFY
VFD	VARIABLE FREQUENCY DRIVE
W	WIRED
WP	WEATHERPROOF
XFMR	TRANSFORMER

HVAC / HV / HW: HEATING, VENTILATING, AND AIR CONDITIONING CONTRACTOR; HEAVYWALL

SYMBOLS LIST NOTE:

ANY SYMBOLS UTILIZED ON THE FLOOR PLANS NOT OTHERWISE ON THE SYMBOLS LIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEERS PRIOR TO BIDDING FOR CLARIFICATION.

LIGHTING

- LED LIGHTING FIXTURE - SEE SCHEDULE
- CEILING RECESSED LIGHTING FIXTURE
- CEILING PENDANT MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- EXIT LIGHTING FIXTURE
- EMERGENCY BATTERY UNIT LIGHT FIXTURE - SURFACE MOUNTED
- EMERGENCY BATTERY UNIT LIGHT FIXTURE - REMOTE HEADS
- POLE MOUNTED LIGHT FIXTURE - SIDE ARM
- LOCAL SWITCH, SINGLE POLE - MOUNTED 48" AFF.
- LOCAL SWITCH, SINGLE POLE - 3-WAY.
- LOCAL SWITCH, SINGLE POLE - 4-WAY.
- WALLBOX DIMMER - MOUNTED 48" AFF.
- OCCUPANCY SENSOR SWITCH - MOUNTED 48" AFF
- WALLBOX DIMMER AND OCCUPANCY DETECTOR - MOUNTED 48" AFF.
- CEILING MOUNTED OCCUPANCY SENSOR

FIRE ALARM SYSTEM

- MANUAL PULL STATION - MOUNTED AT 48" AFF.
- AUDIO/VISUAL SIGNAL DEVICE (HORN/STROBE) - MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER 75 CANDELA UNLESS NOTED OTHERWISE
- VISUAL SIGNAL DEVICE (STROBE) - MOUNTED AT 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER 75 CANDELA UNLESS NOTED OTHERWISE
- AUDIO SIGNAL DEVICE (HORN) CEILING MOUNTED.
- AUDIO/VISUAL SIGNAL DEVICE (HORN/STROBE) CEILING MOUNTED. 75 CANDELA UNLESS NOTED OTHERWISE
- D OR S — DUCT SMOKE DETECTOR.
- H — HEAT DETECTOR.
- FA CP — FIRE ALARM CONTROL PANEL (FACP).
- FA ANN — FIRE ALARM REMOTE ANNUNCIATOR.

POWER & DIAGRAMS

- DUPLEX RECEPTACLE - MOUNTED 18" AFF.
- C — DUPLEX RECEPTACLE - MOUNTED VERTICALLY 6" ABOVE COUNTER OR HORIZONTALLY 4" ABOVE BACKSPLASH.
- GFI — DUPLEX RECEPTACLE - GROUND FAULT CIRCUIT INTERRUPTER TYPE.
- WP — DUPLEX RECEPTACLE - WEATHER PROOF. GFI WEATHER RESISTANT WITH METAL WHILE-IN-USE. COVER AS SPECIFIED
- TP — DUPLEX RECEPTACLE - TAMPER PROOF "CHILDSAFE" TYPE.
- QUADRUPLEX RECEPTACLE - TWO DUPLEX RECEPTACLES UNDER A COMMON COVERPLATE.
- SPECIAL PURPOSE OUTLET - SEE SCHEDULE.
- MOTOR - SEE SCHEDULE. SEE MECHANICAL/ELECTRICAL SHEETS FOR ELECTRICAL INFORMATION OF HVAC EQUIPMENT INDICATED ON DRAWINGS.
- DISCONNECT SWITCH.
- DISCONNECT SWITCH - FUSIBLE.
- ELECTRICAL DISTRIBUTION PANEL - NEW
- GROUND
- OR T — TRANSFORMER
- CIRCUIT BREAKER AMPS, POLES.
- COMBINATION DATA/TELEPHONE OUTLET - MOUNTED AT 18" AFF BACK BOX- ROUGH-IN ONLY
- TV — TELEVISION OUTLET
- PUSH BUTTON.
- S — FLOORBOX COMBINATION - POWER, TELEPHONE, DATA. SEE DETAIL

CIRCUIT DESIGNATIONS

- BRANCH CIRCUIT - COMMON CONTROL. INCLUDES GREEN GROUND WIRE, NEUTRAL AND PHASE WIRES.
- BRANCH CIRCUIT - SEPARATE CONTROL. INCLUDES GREEN GROUND WIRE, NEUTRAL AND PHASE WIRES.
- F — FIRE ALARM SIGNAL CIRCUIT.
- I — INTERCOM CIRCUIT

MISCELLANEOUS SYMBOLS

- INDICATES DETAIL NUMBER
- # — SEE DETAIL
- INDICATES NOTE NUMBER
- # — SEE NOTE

SHEET INDEX

ES0.1 ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES
ES1.0 ELECTRICAL SITE PLAN
ES1.1 LIGHTING SCHEDULES & DETAILS

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PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy

3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES

STORE NAME:
LA-Z-BOY - La CROSSE

HARWOOD
255 N 21st Street, Milwaukee, WI 53233 | 414-475-5554

SHEET NO.
ES0.1

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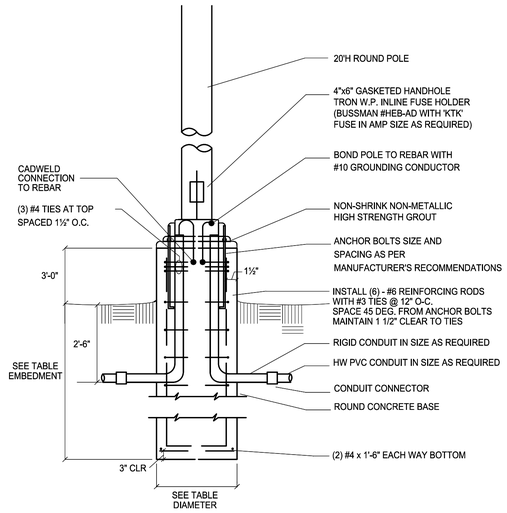
2 TYPE "OC2" LUMINAIRE

NTS

LITHONIA RSX1 LED/P3/4K/MVOLT/RPA/20H ROUND POLE SERIES



3 TYPE "OC2" POLE BASE DETAIL

NTS

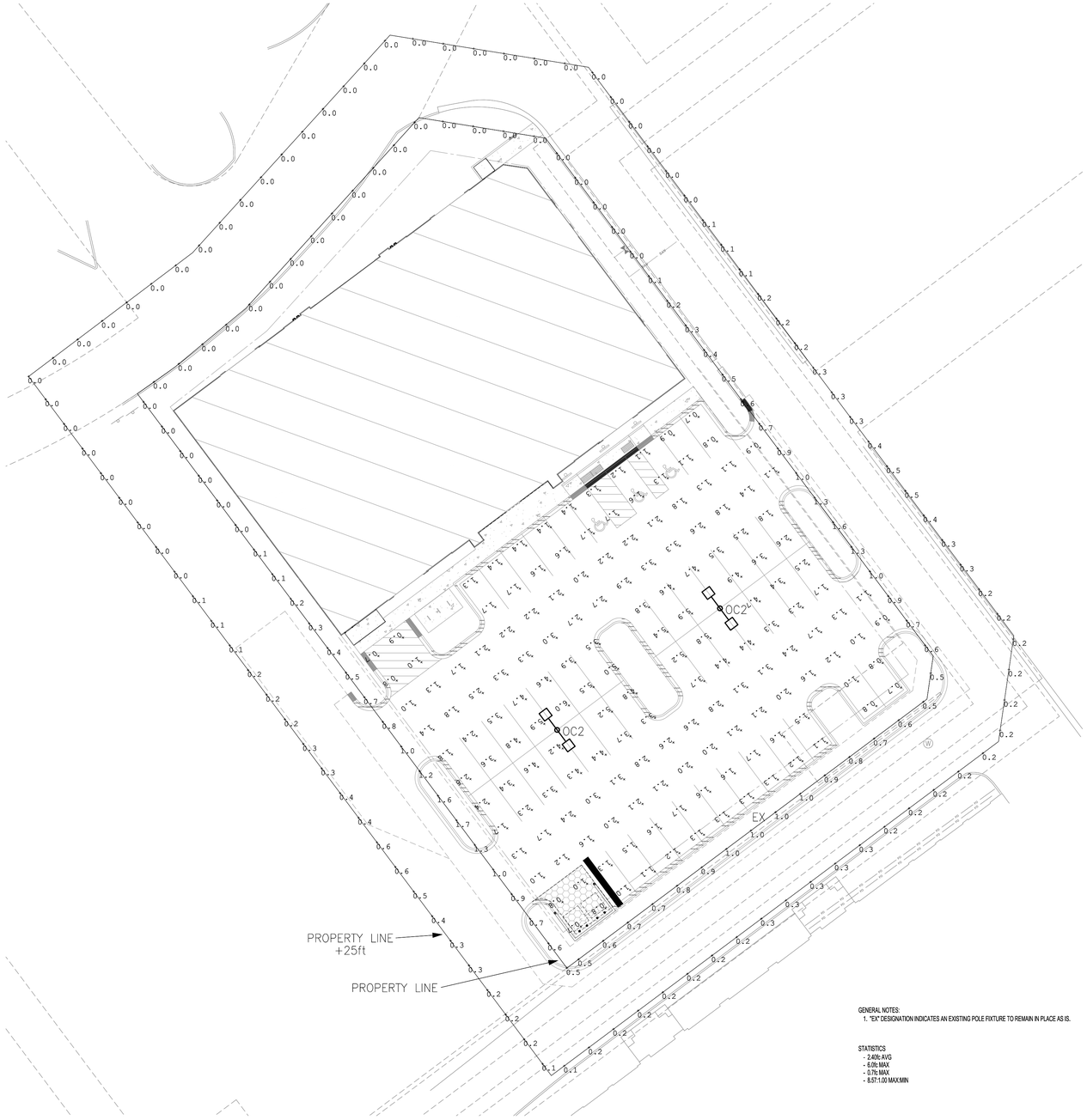
NOTES:
1. DIMENSIONS GIVEN ARE MINIMUM. PROVIDE POLE BASE DIAMETER AND DEPTH AS REQUIRED IN ACCORDANCE WITH LOCAL SOIL AND WIND VELOCITY CONDITIONS.

2. ALL LIGHTING POLE CONCRETE BASES SHALL BE LOCATED A MINIMUM OF 12 INCHES OFF THE FACE OF THE CURBING EDGE OF SIDEWALK OR CENTERED WITHIN AN ISLAND. IN ALL CASES, HOWEVER, FINAL LOCATIONS OF LIGHTING POLES MUST BE VERIFIED WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

3. ALL DIMENSIONS POLE BASE ARE FOR BIDDING ONLY. POLE BASE SHALL MATCH THOSE AT EXISTING POLES, IF APPLICABLE.

POLE HEIGHT	BASE EMBEDMENT/DIAMETER			
	1 HEAD	2 HEAD	3 HEAD	4 HEAD
15'-0"	6'-5"/2'-0"	6'-5"/2'-0"	6'-5"/2'-0"	6'-5"/2'-0"
20'-0"	6'-5"/2'-0"	6'-5"/2'-0"	8'-0"/2'-0"	8'-0"/2'-0"
25'-0"	6'-5"/2'-0"	8'-0"/2'-0"	9'-0"/2'-0"	10'-0"/2'-0"
30'-0"	8'-0"/2'-6"	9'-0"/2'-6"	10'-0"/2'-6"	10'-0"/2'-6"

NOTES:
1. TABLE IS BASED ON SOIL BEARING PRESSURE OF 3000 PSF. AND A LATERAL BEARING PRESSURE OF 200 PSF/FT.



GENERAL NOTES:
1. "EX" DESIGNATION INDICATES AN EXISTING POLE FIXTURE TO REMAIN IN PLACE AS IS.

STATISTICS
- 2.40fc AVG
- 6.0fc MAX
- 0.7fc MAX
- 8.5T:1.00 MAX:MIN

1 ELECTRICAL SITE PLAN

1" = 20'-0"

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ph. 414.278.6804 | www.instudioarch.com

PROJECT NO. 25.107 DRAWN BY ISA ORIG. ISSUE DATE 07.15.2025

FOR CONSTRUCTION

La-Z-Boy
3720 STATE HWY 16, LA CROSSE, WI 54601

ISSUED FOR:
CONST. SET 10.16.2025

SHEET TITLE:
ELECTRICAL SITE PLAN

STORE NAME:
LA-Z-BOY - La CROSSE

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SHEET NO.
ES1.0

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LIGHTING FIXTURE SCHEDULE

HARWOOD ENGINEERING CONSULTANTS

		DES.	DESCRIPTION	LED DATA: TYPE/MIN DEL. LUMENS/KELVIN	LED DATA: MAX. WATTS	VOLT	MAX DEPTH	LIGHTING FIXTURE: MFR.	LIGHTING FIXTURE: SERIES	LIGHTING FIXTURE: OPTIONS/ACCESSORIES	EQUAL MANUFACTURER/FIXTURE	DRIVER TYPE	MTG.	MTG. SURF	SEE NOTE LF——
X		AA	2x4 EDGELIT FLAT PANEL TROFFER OFFSET DRIVER MOUNT 0-10V DIMMING 1%-100%	LED MODULE 4000 LUMENS 80CRI, 3500K	38W	UNV	2.38" @ DRIVER	LITHONIA	EPANL/2X4/4000LM /MIN1 SERIES	28		DDRV	REC	LIG	
X		AC	2x4 ARCHITECTURAL TROFFER CURVED SMOOTH CENTER DIFF. MATTE WHITE OUTER REFLECTORS	LED MODULE 4000 LUMENS 80CRI, 3500K	32W	UNV	2.375"	LITHONIA	2BLT4/40L/ADSM/ MIN1 SERIES	28		DDRV	REC	LIG	
X		BA	2x2 EDGELIT FLAT PANEL TROFFER OFFSET DRIVER MOUNT 0-10V DIMMING 1%-100%	LED MODULE 3400 LUMENS 80CRI, 3500K	30W	UNV	2.38" @ DRIVER	LITHONIA	EPANL/2X2/3400LM /MIN1 SERIES	28		DDRV	REC	LIG	
X		BC	2x2 ARCHITECTURAL TROFFER CURVED SMOOTH CENTER DIFF. MATTE WHITE OUTER REFLECTORS	LED MODULE 4000 LUMENS 80CRI, 3500K	32W	UNV	2.375"	LITHONIA	2BLT2/40L/ADSM/ MIN1 SERIES	28		DDRV	REC	LIG	
X		CA	1x4 EDGELIT FLAT PANEL TROFFER OFFSET DRIVER MOUNT 0-10V DIMMING 1%-100%	LED MODULE 4000 LUMENS 80CRI, 3500K	38W	UNV	2.38" @ DRIVER	LITHONIA	EPANL/1X4/4000LM /MIN1 SERIES	28		DDRV	REC	LIG	
X		CC	1x4 ARCHITECTURAL TROFFER CURVED SMOOTH CENTER DIFF. MATTE WHITE OUTER REFLECTORS	LED MODULE 4000 LUMENS 80CRI, 3500K	32W	UNV	2.375"	LITHONIA	BLT4/40L/ADSM/ MIN1 SERIES	28		DDRV	REC	LIG	
X		EA	THERMOPLASTIC LED EXIT SIGN 1-FACE, CHEVRONS AS REQ'D. NICAD BATTERY,SELF-DIAGNOSTICS	LED MODULE	5W	UNV	-	LITHONIA	LQM/S/EL N/ SD SERIES	10,22,23		DRV	BACK/ END/ TOP	VER	
X		EB	THERMOPLASTIC LED EXIT SIGN 2-FACE, CHEVRONS AS REQ'D. NICAD BATTERY,SELF-DIAGNOSTICS	LED MODULE	5W	UNV	-	LITHONIA	LQM/S/W/3/R/ EL N/SD SERIES	10,22,23		DRV	END/ TOP	VER	
X		EC	BRUSHED ALUM. LED EXIT SIGN 1-FACE, CHEVRONS AS REQ'D. NICAD BATTERY,SELF-DIAGNOSTICS	LED MODULE	5W	UNV	-	LITHONIA	LE/S/1/EL N/ SD SERIES	10,22,23		DRV	BACK/ END/ TOP	VER	
X		ED	BRUSHED ALUM. LED EXIT SIGN 2-FACE, CHEVRONS AS REQ'D. NICAD BATTERY,SELF-DIAGNOSTICS	LED MODULE	5W	UNV	-	LITHONIA	LE/S/2/EL N/ SD SERIES	10,22,23		DRV	END/ TOP	VER	
X		EE	EDGELIT LED EXIT SIGN, SURF MTD 1-FACE, CHEVRONS AS REQ'D. NICAD BATTERY,SELF-DIAGNOSTICS	LED MODULE	5W	UNV	-	ISOLITE	ELT/EM/1M/SD SERIES	10,22,23, MIRRORED BACKING		DRV	BACK/ END/ TOP	VER	
X		EF	EDGELIT LED EXIT SIGN, SURF MTD 2-FACE, CHEVRONS AS REQ'D. NICAD BATTERY,SELF-DIAGNOSTICS	LED MODULE	5W	UNV	-	ISOLITE	ELT/EM/2M/SD SERIES	10,22,23, MIRRORED BACKING		DRV	END/ TOP	VER	
X		EG	BATTERY POWERED EMER. LIGHT DUAL ADJUSTABLE HEADS NICAD BATTERY,SELF-DIAGNOSTICS	(2) 320 LUMEN LED MODULES	6.6W	UNV	-	LITHONIA	ELM4L SERIES	10,22,23		DRV	SURF	WALL	23
X		FA4	4'L STRIPLIGHT CURVED SMOOTH FROSTED DIFF. STEMS/SWIVEL CANOPIES AS REQ.	LED MODULE 4000 LUMENS 80CRI, 3500K	38W	UNV	-	LITHONIA	CSS/L48/4000L/ SQ/GZ10 SERIES	26, STEMS w/ SWIVEL CANOPIES		DDRV	SURF/ PEND	VER	
X		FA8	8'L STRIPLIGHT CURVED SMOOTH FROSTED DIFF. STEMS/SWIVEL CANOPIES AS REQ.	LED MODULE 8000 LUMENS 80CRI, 3500K	74W	UNV	-	LITHONIA	CSS/L96/8000L/ SQ/GZ10 SERIES	26, STEMS w/ SWIVEL CANOPIES		DDRV	SURF/ PEND	VER	
X		FE4	4'L VAPORTIGHT LOW PROFILE CLEAR ACRYLIC FIBERGLASS HOUSING, WET LOC.	LED MODULE 6000 LUMENS 80CRI, 4000K	42W	UNV	-	LITHONIA	FEM/L48/LPACL/ MD/GZ10 SERIES	09,26		DDRV	SURF	WALL	6
X		FF4	4'L VAPORTIGHT, ACRYLIC LINEAL RIBBED FROSTED DIFFUSER FIBERGLASS HOUSING, WET LOC.	LED MODULE 6000 LUMENS 80CRI, 3500K	42W	UNV	-	LITHONIA	FEM/L48/IMAFL/ MD/GZ10 SERIES	09,26, STEMS w/ SWIVEL CANOPIES AS REQ'D.		DDRV	SURF/ PEND	VER	
X		FF8	8'L VAPORTIGHT, ACRYLIC LINEAL RIBBED FROSTED DIFFUSER FIBERGLASS HOUSING, WET LOC.	LED MODULE 12,000 LUMENS 80CRI, 3500K	76W	UNV	-	LITHONIA	FEM/L96/IMAFL/ MD/GZ10 SERIES	09,26, STEMS w/ SWIVEL CANOPIES AS REQ'D.		DDRV	SURF/ PEND	VER	
X		RA	2"APER ROUND RECESSED DNLT. 0-10V DIMMING 1%-100%	LED MODULE 900 LUMENS 80CRI, 3500K	10W	UNV	4"	LUMENWERX	AE2RR/TRM/SW/OF/ 10WD1/AE2RRB/ SW/50/TRM SERIES	10,28		DDRV	REC	VAR	
X		RAS	2"APER SQUARE RECESSED DNLT. 0-10V DIMMING 1%-100%	LED MODULE 900 LUMENS 80CRI, 3500K	10W	UNV	4"	LUMENWERX	AE2SR/TRM/SW/OF/ 10WD1/AE2SRB/ SW/50/TRM SERIES	10,28		DDRV	REC	VAR	
X	X	RB	4"APER ROUND RECESSED DNLT. 0-10V DIMMING 1%-100%	LED MODULE 1500 LUMENS 80CRI, 3500K	18W	UNV	4"	LITHONIA	LDN4/15/L04/GZ1 SERIES	10,28		DDRV	REC	VAR	
X	X	RBS	4"APER SQUARE RECESSED DNLT. 0-10V DIMMING 1%-100%	LED MODULE 1500 LUMENS 80CRI, 3500K	18W	UNV	4"	LITHONIA	LDN4SQ/15/L04/GZ1 SERIES	10,28		DDRV	REC	VAR	
X	X	RC	6"APER ROUND RECESSED DNLT. 0-10V DIMMING 1%-100%	LED MODULE 4000 LUMENS 80CRI, 3500K	44W	UNV	7.5"	GOTHAM	ICO/40/40/45D/EZ1 SERIES	10,28		DDRV	REC	VAR	
X	X	RCS	6"APER SQUARE RECESSED DNLT. 0-10V DIMMING 1%-100%	LED MODULE 4000 LUMENS 80CRI, 3500K	44W	UNV	7.5"	GOTHAM	ICO SQ/40/40/45D /EZ1 SERIES	10,28		DDRV	REC	VAR	
X	X	RD	2"APER ROUND REC ADJUST DNLT 0-10V DIMMING 1%-100%	LED MODULE 900 LUMENS 80CRI, 3500K	10W	UNV	4"	LUMENWERX	AE2RRA/TRM/SW/OF /10WD1/AE2RRAB/ SW/50/TRM SERIES	10,28		DDRV	REC	VAR	
X	X	RDS	2"APER SQUARE REC ADJUST DNLT 0-10V DIMMING 1%-100%	LED MODULE 900 LUMENS 80CRI, 3500K	10W	UNV	4"	LUMENWERX	AE2SRA/TRM/SW/OF /10WD1/AE2SRAB/ SW/50/TRM SERIES	10,28		DDRV	REC	VAR	
X	X	SA	7"DIA SURFACE MOUNTED LIGHT MATTE WHITE ACRYLIC DIFFUSER	LED MODULE 642 LUMENS 80CRI, 3500K	12W	UNV	-	LITHONIA	FMML/7/WL SERIES	09,10		DRV	SURF	VAR	
X	X	UA	22"L UNDERCABINET FIXTURE ADJUSTABLE, HARD-WIRED	LED MODULE 886 LUMENS 80CRI, 3000K	12W	UNV	-	JUNO	UPLD/22IN/SWW4/ WH SERIES	-		DRV	SURF	UNDER CAB	
		AS	2x4 SURGICAL TROFFER SYMM./ASYM. DISTRIBUTION ANTIMICROBIAL FINISH	LED MODULE 20,000 LUMENS 80CRI, 3500K	220W	UNV	4"	KURTZON	ML-OR/2x4/4LEDH/ 840/2CIR/UNV/CRM /ASY SERIES	28		DDRV	REC	LIG	
		HA	12"Wx24"L HIGHBAY GLARE CONTROL LENS, WIDE DIST. STEMS w/ SWIVEL CANOPIES	LED MODULE 30,000 LUMENS 80CRI, 3500K	210W	UNV	-	LITHONIA	CPHB/30000LM/SEF /GCL/WD/GZ10 SERIES	28		DDRV	PEND	EXP	
		LA	2"APER LINEAR RECESSED DIRECT FLUSH SATIN ACRYLIC DIFFUSER	LED MODULE 800 LUMENS/FT 80CRI, 3500K	8W/FT	UNV	-	MARK ARCHITECTURAL	SL2/LOP/FLP/ 800LMF/MIN1/ZT SERIES	10,28		DDRV	REC	LIG	
		LC	2"APER LINEAR SUSP. DIR./INDIR. FLUSH SATIN ACRYLIC DIFFUSER EXTRUDED ALUM HSG, A.C. CABLE	LED MODULE 800LIFT DN, 600LIFT UP 80CRI, 3500K	14W/FT	UNV	-	MARK ARCHITECTURAL	S2/LID/800LMF/ 800LMF/MIN1/DCT/ ZT SERIES	10,28		DDRV	SUSP	LIG	
		OB	22"Lx13"W AREA LUMINAIRE ON 20'H RND. POLE/3'H AFG BASE TYPE III DISTRIBUTION	LED MODULE 12,500 LUMENS 80CRI, 4000K	109w	UNV	-	LITHONIA	RSX1 LED/P3/R3/ RPA/20'H ROUND POLE SERIES	09,10,26		DDRV	SURF	CONC BASE	
		OC	22"Lx13"W AREA LUMINAIRE ON 20'H RND. POLE/3'H AFG BASE TYPE IV DISTRIBUTION	LED MODULE 12,500 LUMENS 80CRI, 4000K	109w	UNV	-	LITHONIA	RSX1 LED/P3/R4/ RPA/20'H ROUND POLE SERIES	09,10,26		DDRV	SURF	CONC BASE	
		WE	17"W EXTERIOR WALL MOUNT FORWARD THROW DISTRIBUTION (2)MODULES/(2)DRIVERS	LED MODULE 3000 LUMENS 80CRI, 4000K	25W	UNV	-	LITHONIA	WST LED/P2/VF SERIES	09,10,26		DDRV	SURF	WALL	
		WF	17"W EXTERIOR WALL MOUNT FORWARD THROW DISTRIBUTION	LED MODULE 6000 LUMENS 80CRI, 4000K	50W	UNV	-	LITHONIA	WST LED/P3/VF SERIES	09,10,26		DDRV	SURF	WALL	
		XA	FLEXIBLE TAPELIGHT w/ SQ. SURFACE MOUNT CHANNEL REMOTE TRANSFORMER	LED MODULE 352LI/FT 80CRI, 3500K	5W/FT	UNV	-	LLI ARCHITECTURAL	LLI-4.4W/20/24V/ LLI/SX/SQR/SA/F SERIES	10,26		DDRV	SURF	VER	
		XB	FLEXIBLE TAPELIGHT w/ 10DEG GRAZE MOUNTING CHANNEL REMOTE TRANSFORMER	LED MODULE 352LI/FT 80CRI, 3500K	5W/FT	UNV	-	LLI ARCHITECTURAL	LLI-4.4W/20/24V/ LLI/SX/GZR/SA/F SERIES	10,26		DDRV	SURF	VER	
		XC	FLEXIBLE TAPELIGHT w/ 45DEG MOUNTING CHANNEL REMOTE TRANSFORMER	LED MODULE 352LI/FT 80CRI, 3500K	5W/FT	UNV	-	LLI ARCHITECTURAL	LLI-4.4W/20/24V/ LLI/SX/ANG/SA/F SERIES	10,26		DDRV	SURF	VER	

ABBREVIATIONS:

EXP	EXPOSED STRUCTURE	REC	RECESSED	WM	WALL MOUNTED	STD	STANDARD
LIG	LAY-IN GRID	SURF	SURFACE	GRD	GROUND	SPEC	SPECIAL
GYP	GYPSUM BOARD	PEND	PENDANT	CONC BASE	CONCRETE BASE	AR	AS REQUIRED
VER	VERIFY	AC	AIRCRAFT CABLE SUSP.	MTD	MOUNTED	NA	NOT APPLICABLE

VAR	VARIES
LAS	LENGTH AS SHOWN
DRV	LED DRIVER
DDRV	LED DIMMABLE DRIVER

OPTIONS/ACCESSORIES CODE LISTING:

01. 0.125" PATTERN 12 ACRYLIC LENS
02. 0.156" PATTERN 19 ACRYLIC LENS
03. FLUSH STEEL DOOR FRAME
04. FLUSH ALUMINUM DOOR FRAME
05. SEMI-SPECULAR REFLECTOR
06. LOW IRIDESCENT REFLECTOR
07. REFLECTOR MATCHING TRIM RING
08. DAMP LOCATION LISTED
09. WET LOCATION LISTED
10. STD. FINISH TO BE SELECTED BY ARCHITECT
11. CUSTOM COLOR
12. FURNISH w/ CHAIN HANGERS
13. FURNISH w/ STEM/SWIVEL CANOPY
14. FURNISH w/ AIRCRAFT CABLE
15. FURNISH w/ NEMA HOOK, CORD & PLUG
16. FURNISH w/ SAFETY CHAIN
17. FURNISH w/ WIREGUARD
18. FURNISH w/ AUXILIARY EMERGENCY DRIVER
19. FURNISH w/ INTEGRAL PHOTOCELL
20. FURNISH WITH UNIVERSAL ARROWS AND RED STENCIL FACE
21. FURNISH w/ LEAD CALCIUM BATTERY
22. FURNISH w/ NICAD BATTERY
23. FURNISH w/ SELF-DIAGNOSTICS
24. FURNISH w/ LED DRIVER, NON-DIMMED
25. FURNISH w/ LED DRIVER, STEP-DIMMED
26. FURNISH w/ LED DRIVER, DIMMABLE TO 10%
27. FURNISH w/ LED DRIVER, DIMMABLE TO 5%
28. FURNISH w/ LED DRIVER, DIMMABLE TO 1%
29. FURNISH w/ LED DRIVER, DIMMABLE TO 0.1%
30. FURNISHED w/ LED DIMMABLE DRIVER STD; BUT FIXT. IS NOT BEING DIMMED
31. FURNISH w/ PAINT AFTER FABRICATION

LIGHTING FIXTURE SCHEDULE NOTES:

NOTES LF1 – LF22 ARE GENERAL NOTES APPLICABLE TO ENTIRE LIGHTING FIXTURE SCHEDULE WHERE APPROPRIATE.

LF1 – PROVIDE ALL PAINTED FIXTURES WITH PAINT AFTER FABRICATION WITH POLYESTER PAINT.

LF2 – PROVIDE ALL NECESSARY COMPONENTS AND ACCESSORIES FOR A COMPLETE OPERATING INSTALLATION PER APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.

LF3 – PROVIDE CEILING SPACERS AS REQUIRED FOR ALL SURFACE MOUNTED FIXTURES UNLESS FIXTURE IS LABELED AS SUITABLE FOR DIRECT MOUNTING TO A LOW DENSITY CEILING.

LF4 – PROVIDE SLOPE ADAPTERS FOR ALL SURFACE MOUNTED, RECESSED, SUSPENDED FIXTURES AND LIGHT TRACK AS NEEDED TO ACCOMMODATE THE SLOPE OF THE CEILING.

LF5 – INCLUDE IN THE BASE BID THE COST FOR FURNISHING, INSTALLING, WIRING AND CONNECTING FOR A COMPLETE OPERATING INSTALLATION AN ADDITIONAL EXIT FIXTURE OF EACH TYPE SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE.

LF6 – INCLUDE IN THE BASE BID, THE COST FOR FURNISHING, INSTALLING, AND WIRING FOR A COMPLETE OPERATING INSTALLATION IN THE ELEVATOR SHAFT (2) ADDITIONAL TYPE "FE4" FIXTURES SPECIFIED IN THIS LIGHTING FIXTURE SCHEDULE.

LF7 – CONTRACTOR SHALL REVIEW THE ENTIRE LIGHTING FIXTURE SCHEDULE INCLUDING THE DESCRIPTION AND CATALOG NUMBER. CONTRACTOR SHALL NOTIFY THE A/E OF ANY DISCREPANCIES PRIOR TO BIDDING.

LF8 – VERIFY ALL FINISHES/COLORS OF FIXTURES WITH A/E PRIOR TO ORDERING.

LF9 – CONTRACTOR SHALL VERIFY THAT THE FIXTURE INSTALLATION TYPE IS COMPATIBLE WITH CEILING CONSTRUCTION PRIOR TO ROUGH IN, AND SHALL NOTIFY THE A/E IMMEDIATELY WITH ANY DISCREPANCIES.

LF10 – FIELD VERIFY THE EXACT LOCATIONS OF THE LIGHTING FIXTURES TO AVOID CONFLICT WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPES, STRUCTURAL MEMBERS, ARCHITECTURAL FEATURES, ETC. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO ROUGH IN.

LF11 – IN ALL INSULATED CEILINGS, WALLS, AND WHERE RECESSED FIXTURES PENETRATE THE BUILDING ENVELOPE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN AIRTIGHT INSTALLATION AND PROPER CLEARANCES BETWEEN RECESSED FIXTURES AND THE INSULATION. THIS CAN BE ACCOMPLISHED BY PROPER TENTING OR BOXING–OUT AROUND RECESSED FIXTURES THAT DO NOT HAVE IC RATINGS, OR REPLACEMENT OF THOSE FIXTURES WITH EQUAL FIXTURES HAVING PROPER IC AND AIRTIGHT RATINGS. REFER TO THE ARCHITECTURAL PLANS FOR APPLICABLE AREAS.

LF12 – IN ALL FIRE–RATED CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FIRE RATING. REFER TO ARCHITECTURAL PLANS FOR APPLICABLE AREAS.

LF13 – PROVIDE OCCUPANCY SENSORS AS SHOWN ON THE PLANS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.

LF14 – PROVIDE EACH FIXTURE TYPE WITH COMPATIBLE DIMMING SWITCHES PER MANUFACTURER'S RECOMMENDATIONS.

LF15 – FIELD VERIFY THE EXACT LOCATION OF ALL SURFACE MOUNTED FIXTURES TO AVOID CONFLICT WITH ARCHITECTURAL FEATURES, INCLUDING PAINT/WALL COVERING SCHEMES, DECORATIVE TRIMS, TEXTURAL WALLS, MURALS, ARTWORK, ETC. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO ROUGH IN.

LF16 – PROVIDE (1) EXTRA LED MODULE AND LED DRIVER OF EACH TYPE INDICATED IN LIGHT FIXTURE SCHEDULE AND TURN OVER TO OWNER. IF MODULE AND/OR DRIVER CANNOT BE SEPARATED FROM THE FIXTURE, PROVIDE AN ENTIRE FIXTURE.

LF17 – IN ALL PLENUM RATED CEILING CAVITIES, INCLUDING "CHICAGO PLENUM", PROVIDE PLENUM RATED TROFFERS AND OTHER TYPES OF LIGHTING FIXTURES IF REQUIRED BY LOCAL CODE(S).

LF18 – IN LOCATIONS OF LIFE SAFETY EGRESS ROUTE, WHERE ONE LIGHT FIXTURE IS EMPLOYED, (2) LED MODULES AND (2) LED DRIVERS ARE REQUIRED IN THE FIXTURE TO COMPLY TO N.E.C. ARTICLE 700.16 EMERGENCY ILLUMINATION.

LF19 – FOR EXTERIOR WALL MOUNTED FIXTURES, PROVIDE SEALANT AROUND MOUNTING PLATE TO PROTECT AGAINST MOISTURE INSIDE OF FIXTURE.

LF20 – EXCEPT FOR HAZARDOUS RATED AND BATTERY COMPONENTS OF EMERGENCY FIXTURES, ALL LED DRIVERS SHALL HAVE A DISCONNECTING MEANS DESCRIBED IN NEC 410.73G. THIS DISCONNECT MUST BE ACCESSIBLE WITHIN THE FIXTURE AT OR NEAR THE DRIVER.

LF21 – AUXILIARY EMERGENCY DRIVERS FOR EXTERIOR FIXTURES SHALL BE REMOTELY MOUNTED INSIDE BUILDING. THE EMERGENCY DRIVER MAY BE REMOTELY MOUNTED UP TO (1/2) THE DISTANCE AS THE DRIVER MANUFACTURER RECOMMENDS REMOTING THAT DRIVER FROM THE SOURCE. FIXTURES SHALL BE WIRED SWITCHABLE UNLESS NOTED OTHERWISE.

LF22 – LIGHT FIXTURES SPECIFIED ESTABLISH A LEVEL OF QUALITY WHICH SHALL BE MET BY ALL FIXTURES PROVIDED. FIXTURES SHALL BE COMPARABLE IN PERFORMANCE, CONSTRUCTION, PHYSICAL APPEARANCE, FINISH AND FEATURES IN ORDER TO BE CONSIDERED EQUIVALENT. FIXTURES NOT DEEMED "EQUIVALENT" MAY NOT BE SUBMITTED AS AN "ALTERNATE" OR "SUBSTITUTE" FIXTURE TO THAT WHICH WAS SPECIFIED. DETERMINATION OF "EQUIVALENCY" SHALL BE THE RESPONSIBILITY OF A/E. THERE SHALL BE NO ADDITIONAL COST ASSOCIATED WITH REJECTION OF A FIXTURE NOT DEEMED "EQUIVALENT" BY THE A/E.

LF23 – EQUAL FIXTURE MUST MEET SPACING REQUIREMENTS OF SPECIFIED FIXTURE; MINIMUM 58'–0" o.c. AT A 7'–6" MOUNTING HEIGHT TO ACHIEVE A 1–FOOTCANDLE AVERAGE, 0.1–FOOTCANDLE MINIMUM, AND 40:1 MAX:MIN RATIO OR BETTER ALONG A 6'–0" WIDE PATH OF EGRESS.

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