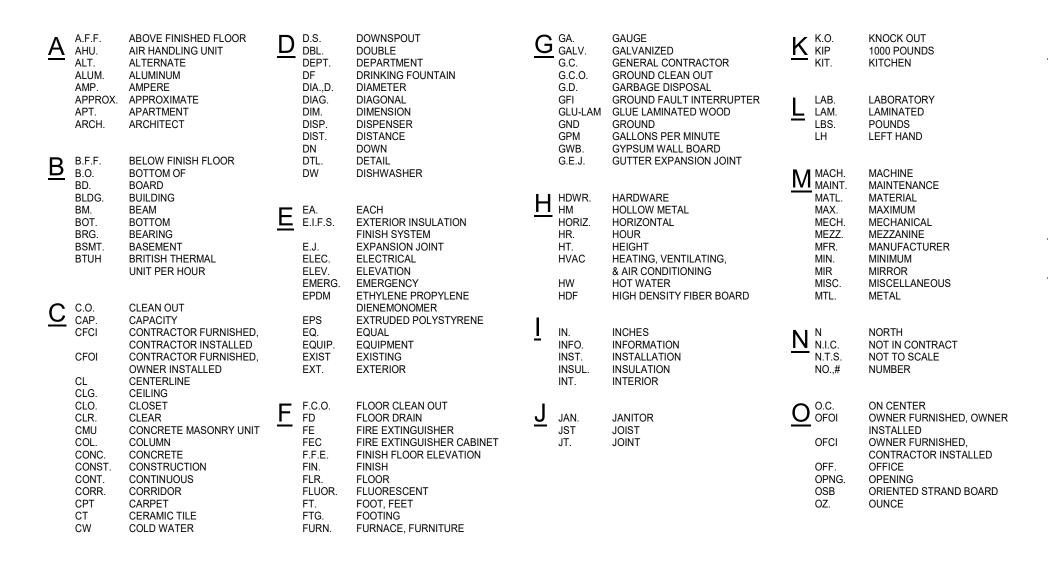
RALSTON APARTMENT REN CONSTRUCTION DOCUMENTS - 08.23.2024

5617 S 77TH ST RALSTON, NE 68127



ABBREVIATIONS

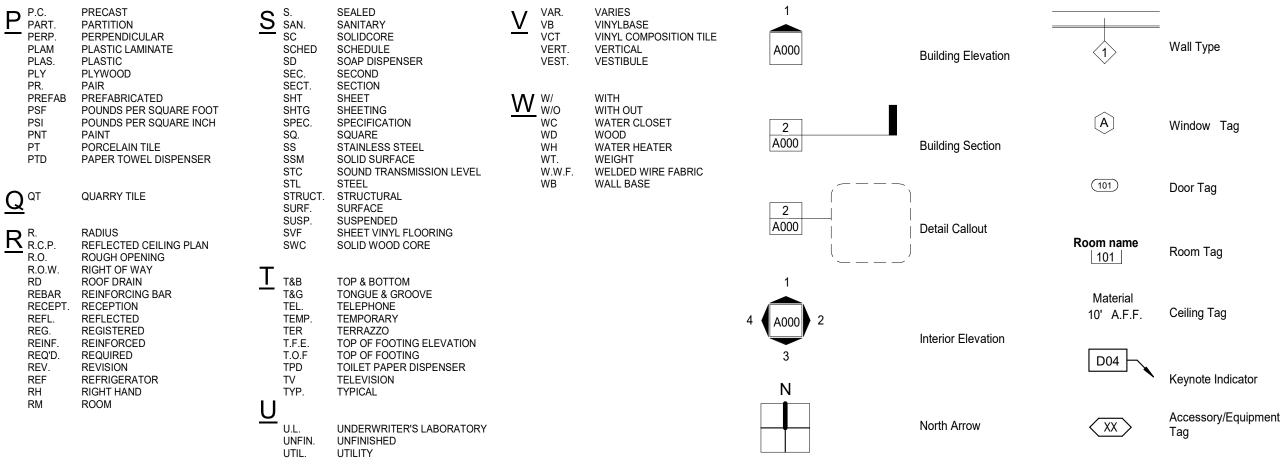


OVATIC	NS		sate ARCHITECT URE
INDEX OF DRAWINGS			3624 Farnam Street Omaha, Nebraska 68131 Tel 402.342.5575 www.slatearchitecture.com
GENERAL G000 COVER SHEET G001 CODE REVIEW & EGRESS PLAN G002 ADA STANDARDS			JEREMY L. CARLSON A-5055
ARCHITECTURAL A001 ARCH SITE PLAN A101 DEMOLITION FLOOR PLAN	TEAM MEMB	ERS	08.23.2024
A202FLOOR PLANS, WALL TYPES, DOOR AND WINDOW SCHEDULESA203UNIT PLANSA204UNIT PLANSA301PLANS AND EXTERIOR ELEVATIONSA401WALL SECTIONS AND DETAILSA501CASEWORK DETAILS	OWNER:	LEAVENWEALTH POR BOX 540491 OMAHA, NE 68154 CONTACT COLLIN SCHWARTZ E.MAIL COLLIN@LEAVENWEALTH TEL 402.536.0580	I, JEREMY L. CARLSON, AM THE COORDINATING PROFESSIONAL FOR THE RALSTON APARTMENT RENOVATIONS PROJECT.
STRUCTURAL S100 STRUCTURAL NOTES AND PLANS MECHANICAL M1.1 FLOOR PLANS - MECHANICAL M2.1 FLOOR PLANS - PIPING	ARCHITECT:	SLATE ARCHITECTURE 3624 FARNAM STREET OMAHA, NEBRASKA 68131 CONTACT JEREMY CARLSON E.MAIL JEREMYC@SLATEARCH.COM TEL 402.342.5575	SNO
M3.1 MECHANICAL DETAILS M4.1 MECHANICAL SCHEDULES M5.1 MECHANICAL SPECIFICATIONS	CIVIL:	OWNER ADDRESS CITY, STATE ZIP CONTACT NAME E.MAIL EMAIL@ADDRESS TEL 000.000.0000	RENOVATIONS
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	M.E.P.:	MORRISSEY ENGINEERING 4940 NORTH 118TH ST OMAHA, NE 68164 CONTACT NICK LIMPACH E.MAIL NLIMPACH@MORRISSEYENGINEERING.COM TEL 402.991.3142	RALSTON APARTMEN1 5617 S 77TH ST RALSTON, NE 68127

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GENERAL G000 COVER SHEET G001 CODE REVIEW & EGRESS PLAN			Omaha, Nebraska 68131 Tel 402.342.5575 www.slatearchitecture.com
G002 ADA STANDARDS CIVIL C1.0 FIRE SERVICE			JEREMY L. CARLSON A-5055
ARCHITECTURAL A001 ARCH SITE PLAN	TEAM MEMB	ERS	08.23.2024
A101DEMOLITION FLOOR PLANA202FLOOR PLANS, WALL TYPES, DOOR AND WINDOW SCHEDULESA203UNIT PLANSA204UNIT PLANSA301PLANS AND EXTERIOR ELEVATIONSA401WALL SECTIONS AND DETAILSA501CASEWORK DETAILS	OWNER:	LEAVENWEALTH POR BOX 540491 OMAHA, NE 68154 CONTACT COLLIN SCHWARTZ E.MAIL COLLIN@LEAVENWEALTH TEL 402.536.0580	I, JEREMY L. CARLSON, AM THE COORDINATING PROFESSIONAL FOR THE RALSTON APARTMENT RENOVATIONS PROJECT.
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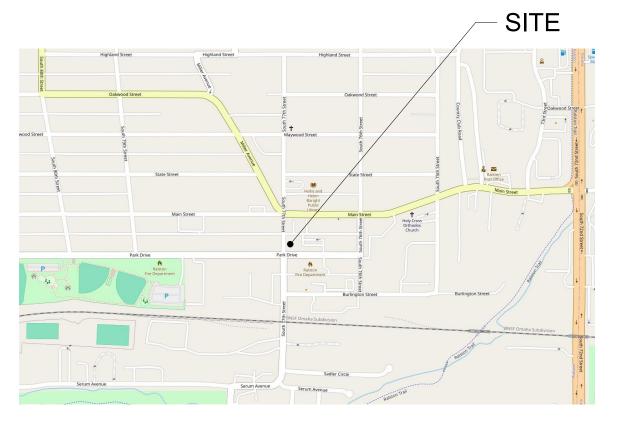
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GENERAL G000 COVER SHEET G001 CODE REVIEW & EGRESS PLAN G002 ADA STANDARDS CIVIL C1.0 FIRE SERVICE			Tel 402.342.5575 www.slatearchitecture.com
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M2.1 FLOOR PLANS - PIPING M3.1 MECHANICAL DETAILS M4.1 MECHANICAL SCHEDULES M5.1 MECHANICAL SPECIFICATIONS	CIVIL:	OWNER ADDRESS CITY, STATE ZIP CONTACT NAME E.MAIL EMAIL@ADDRESS TEL 000.000.0000	RENOVATIONS
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VICINITY MAP

Keynote Indicator



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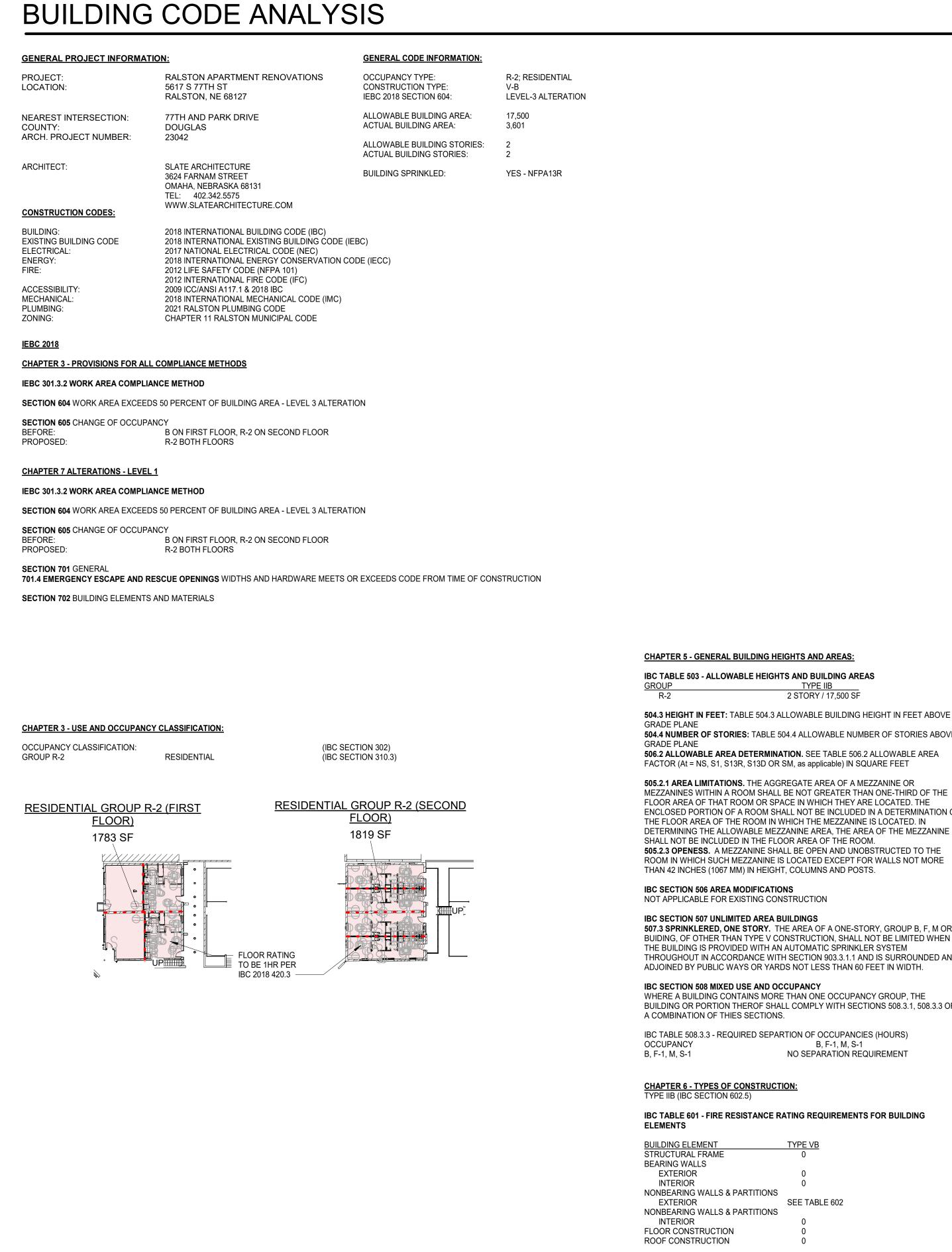
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Revisions

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Sheet No. | G000



IBC TABLE 602 - FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE **CHAPTER 9 - FIRE PROTECTION SYSTEMS:**

X < 5 5 < X > 10

10 < X > 30 X > 30

NFPA 13R

BUILDING OR PORTION THEROF SHALL COMPLY WITH SECTIONS 508.3.1, 508.3.3 OR

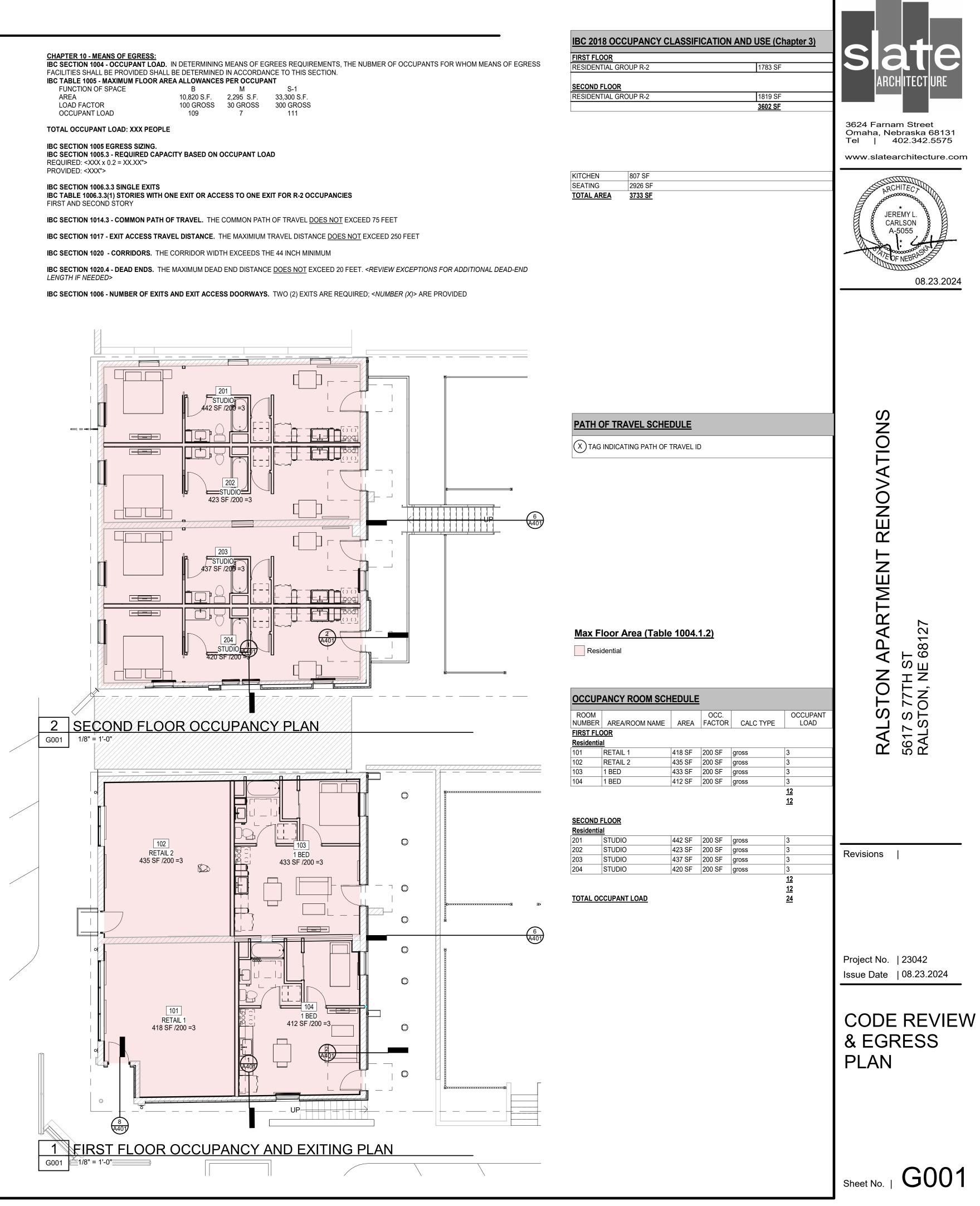
THROUGHOUT IN ACCORDANCE WITH SECTION 903.3.1.1 AND IS SURROUNDED AND

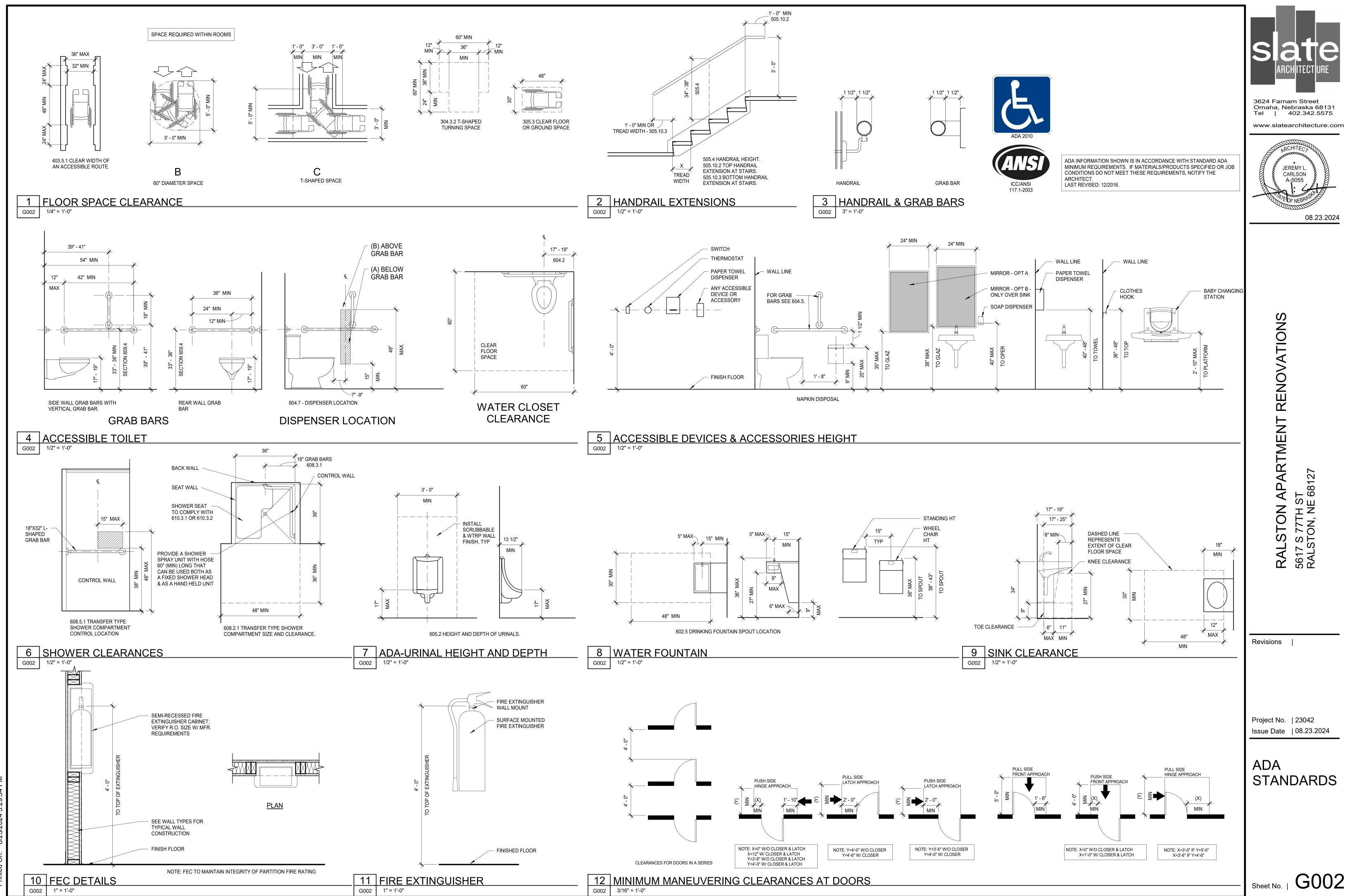
507.3 SPRINKLERED, ONE STORY. THE AREA OF A ONE-STORY, GROUP B, F, M OR S BUIDING, OF OTHER THAN TYPE V CONSTRUCTION, SHALL NOT BE LIMITED WHEN

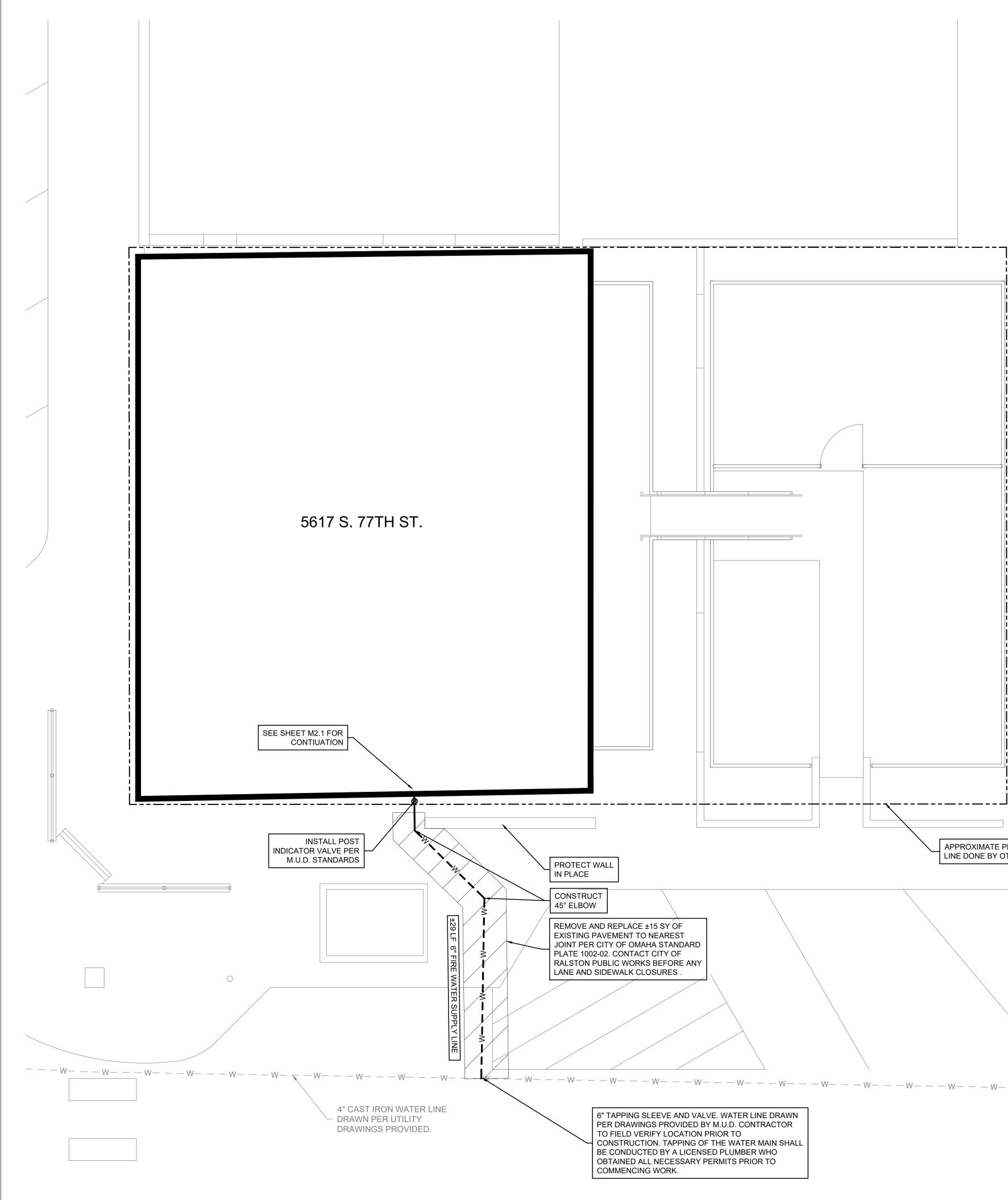
MEZZANINES WITHIN A ROOM SHALL BE NOT GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED. THE ENCLOSED PORTION OF A ROOM SHALL NOT BE INCLUDED IN A DETERMINATION OF THE FLOOR AREA OF THE ROOM IN WHICH THE MEZZANINE IS LOCATED. IN

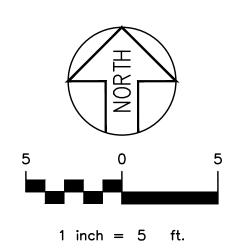
504.4 NUMBER OF STORIES: TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE 506.2 ALLOWABLE AREA DETERMINATION. SEE TABLE 506.2 ALLOWABLE AREA

504.3 HEIGHT IN FEET: TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE









APPROXIMATE PROPERTY LINE DONE BY OTHERS REMOVE AND REPLACE ±15 SY OF EXISTING PAVEMENT TO NEAREST JOINT PER CITY OF OMAHA STANDARD PLATE 1002-02. CONTACT CITY OF RALSTON PUBLIC WORKS BEFORE ANY LANE AND SIDEWALK CLOSURES . $-\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}---\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{w}--\mathsf{$ 6" TAPPING SLEEVE AND VALVE. WATER LINE DRAWN PER DRAWINGS PROVIDED BY M.U.D. CONTRACTOR TO FIELD VERIFY LOCATION PRIOR TO CONSTRUCTION. TAPPING OF THE WATER MAIN SHALL BE CONDUCTED BY A LICENSED PLUMBER WHO

REMOVAL NOTES

- PROPERLY.

UTILITY NOTES

- D. ALL WATER LINES SHALL HAVE 5' MINIMUM COVER.

PAVING NOTES

- C. SPRAYER IS USED.
- PAVEMENT.
- JOINTS.
- G.
- Η. MAINTAIN ALL EXISTING DRAINAGE PATTERNS.
- SPECIFICATIONS.
- GRADE.



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A. REMOVAL PLAN IS BASED ON THE SITE CONDITION AT THETIME OF THE PROVIDED EXISTING CONDITIONS DRAWING.

B. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIALS ENCOUNTERED IN THE REMOVAL AND GRADING OPERATION OF THE PROJECT SITE, INCLUDING CONCRETE, ASPHALT, OIL MAT, BRICK, ROCK, ECT. NO UNSUITABLE MATERIAL SHALL BE USED FOR BACKFILLING OR EMBANKMENT CONSTRUCTION. ALL MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER. THE COST FOR DISPOSAL OF UNSUITABLE MATERIAL SHALL BE SUBSIDIARY TO THE PROJECT.

C. OVER-EXCAVATE ALL AREAS TO BE PAVED WITH PARKING LOT OR BUILDING TO BE CONSTRUCTED UPON. OVER-EXCAVATE AND FILL PER GEOTECHINCAL EXPLORATION REPORT. COORDINATE REMOVAL OF EXISTING MATERIAL WITH GEOTECHNICAL ENGINEER AND DISPOSE OF

A. COORDINATE LOCATION AND DEPTHS OF ALL SERVICE LINES w/ BUILDING MECHANICAL PLANS.

B. CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY COMPANIES TO COORDINATE CONNECTIONS AND RELOCATIONS. ALL CONNECTION COSTS, CONNECTION FEES, OR RELOCATION FEES WILL BE PAID BY THE CONTRACTOR.

C. ALL EXISTING UTILITIES SHOWN ARE FROM PUBLIC RECORDS AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT LOCATION AND DEPTH PRIOR TO CONSTRUCTION.

E. ALL VALVES, FITTINGS, AND WATER LINE DISINFECTION SHALL CONFORM TO M.U.D. REQUIREMENTS.

F. ALL PVC PIPE, FITTINGS, AND OUTLET STRUCTURES HAVING AN INSIDE DIAMETER OF 15" OR LESS SHALL MEET THE REQUIREMENTS OF ASTM D3034, STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHLORIDE) (PVC) SEWER PIPE AND FITTINGS.

G. LOCATION OF WATER MAIN IS SHOWN AS APPROXIMATE. CONTRACTOR TO FIELD VERIFY LOCATION, STATUS OF LINE, DEPTH, AND TO COORDINATE ALL CONNECTIONS WITH M.U.D. INSTALL CONNECTION PER M.U.D. GUIDELINES AND SPECIFICATIONS.

A. CONCRETE FOR PAVEMENTS, DRIVEWAYS AND CURB & GUTTER SHALL BE MIX TYPE OPW 3500, AIR-ENTRAINED CONCRETE.

B. CONCRETE FOR SIDEWALKS SHALL BE MIX TYPE OPW 3500, AIR-ENTRAINED CONCRETE.

CONCRETE PAVEMENT SHALL BE CURED USING A WHITE PIGMENTED LIQUID MEMBRANE FORMING CURING COMPOUND THAT HAS BEEN APPROVED BY THE OMAHA PUBLIC WORKS DEPARTMENT. THE RATE OF APPLICATION SHALL BE 200 SQUARE FEET PER 1 GALLON IF A MECHANICAL POWERED SPRAYER IS USED AND 100 SQUARE FEET PER 1 GALLON IF A HAND POWERED

D. FOR CONCRETE PAVEMENT PREPARE THE UPPER 12" OF SUBGRADE TO BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT BETWEEN -3 AND +4 PERCENT OF OPTIMUM. (ASTM D1557, MODIFIED PROCTOR). SUBGRADE PREPARATION SHOULD EXTEND A MINIMUM OF 2 FEET LATERALLY BEYOND THE EDGE OF THE

E. FOR CONCRETE SIDEWALKS PREPARE THE UPPER 6" OFSUBGRADE TO BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AT A MOISTURE CONTENT BETWEEN -3 AND +4 PERCENT OF OPTIMUM, (ASTM D698, STANDARD PROCTOR). SUBGRADE PREPARATION SHOULD EXTEND A MINIMUM OF 6" LATERALLY BEYOND THE EDGE OF THE PAVEMENT.

F. A DIAMOND EDGE SAW BLADE SHALL BE USED FOR CUTTING ALL REQUIRED CONTRACTION AND LONGITUDINAL PAVEMENT

CURB BACKFILLING SHALL BE COMPLETED WITHIN 7 DAYS AFTER CURB PLACEMENT.

PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREAS. NO PONDING OF WATER SHALL BE ALLOWED.

I. ALL PAVEMENT JOINTS SHALL BE SEALED. CONCRETE JOINT SEALER SHALL BE HOT APPLIED PER CITY OF OMAHA STANDARD

CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS

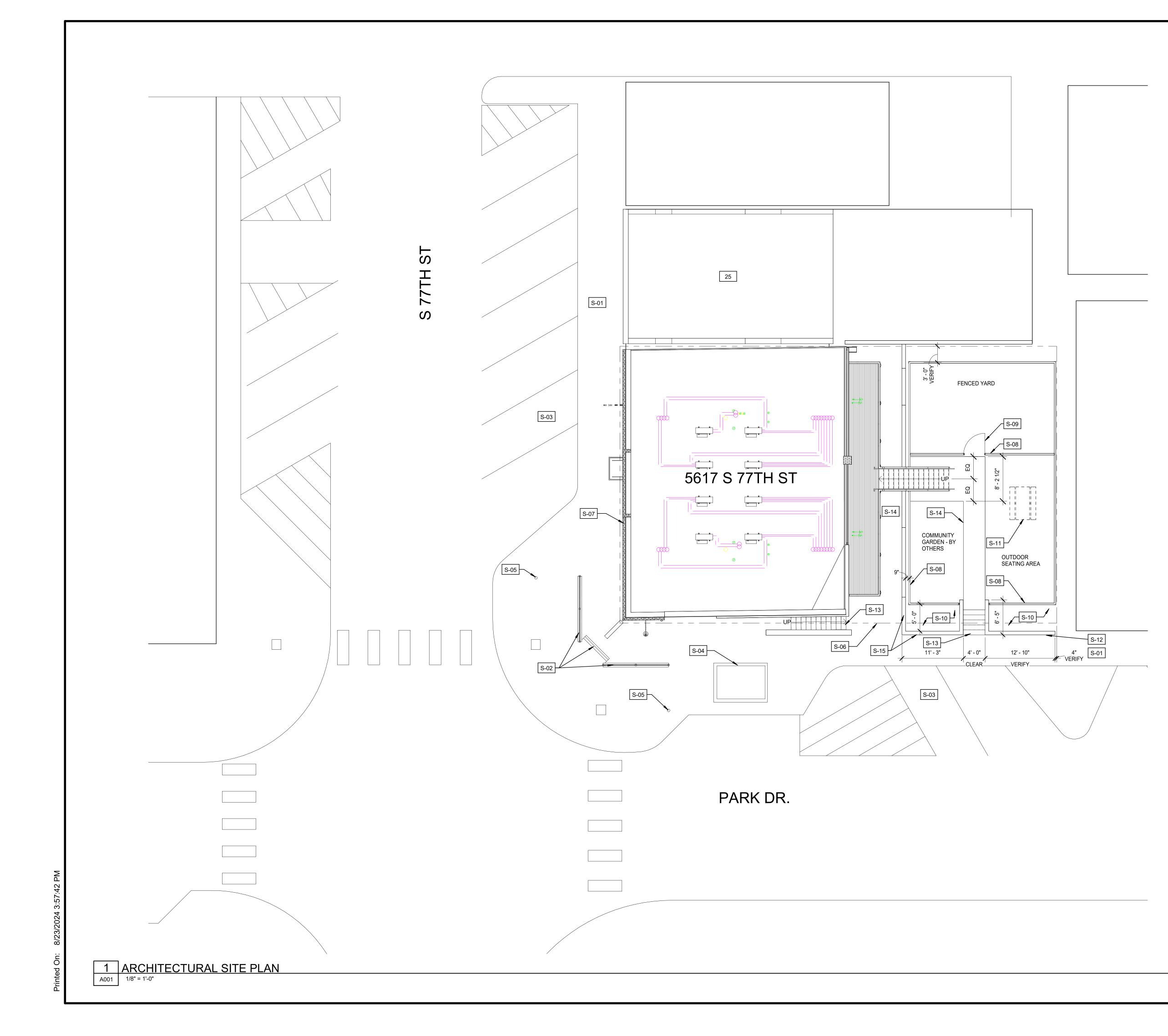
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Revisions

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<u>GEN</u>	IERAL NOTES - FLOOR PLAN
1	THE INTENT OF THE DRAWINGS IS TO PROVIDE INFORMATION FOR CONSTRUCTION. IT IS IMPORTANT FOR THE CONTRACTOR TO VERIFY FIELD DIMENSIONS AND CONDITIONS BEFORE EXECUTION OF THE WORK. CONTACT THE ARCHITECT SHOULD DISCREPANCIES EXIST.
2	CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE ALL WORK SHOWN ON PLANS, CALLED FOR IN SPECIFICATION, OR REASONABLY IMPLIED FOR A COMPLETE INSTALLATION EVEN THOUGH NEITHER SHOWN ON PLANS OR CALLED OUT IN SPECIFICATIONS.
3	REVIEW SHEET S100 AND PERFORM BUILDING REHABILITATION RECOMMENDATIONS PRIOR TO COMMENCING WORK. WHERE RECOMMENDATIONS AND SCOPE OF WORK OVERLAP, DEFER TO DRAWINGS.
4	WHERE FLOOR IS TRANSITIONING TO A DIFFERENT MATERIAL, INSTALL A TRANSITION STRIP.
5	DIMENSIONS ARE FROM FACE OF STUD UNLESS OTHERWISE NOTED.
6	DEBRIS SHALL BE PROMPTLY REMOVED FROM THE BUILDING AND THE SITE AND DISPOSED OF IN A LEGAL MANNER. SURFACES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED IN A BROOM CLEAN CONDITION AT THE END OF EACH WORK DAY.
7	THE CONTRACTOR SHALL PROVIDE ALL DEMOLITION INCIDENTAL TO OR REQUIRED FOR NEW AND RENOVATION CONSTRUCTION WHETHER OR NOT IT IS SPECIFICALLY NOTED, INCLUDING, BUT NOT LIMITED TO, ALL OTHER WORK THAT MIGHT REASONABLY BE REQUIRED TO BE REMOVED IN PREPARATION FOR SPECIFIED FINISHES. DEMOLITION SHALL BE PERFORMED IN A MANNER THAT WILL NOT DAMAGE ANY ITEMS OR SURFACES INDICATED TO REMAIN. ITEMS OR SURFACES SHALL BE PATCHED IF NECESSARY TO PROVIDE A SUITABLE SUB-STRATA FOR NEW FINISHES.
8	FIRE EXTINGUISHERS FINAL LOCATIONS SHALL BE VERIFIED WITH LOCAL FIRE AUTHORITY
9	UNIT LAYOUTS SHOWN HALFTONE FOR REFERENCE. REFER TO UNIT PLANS FOR LAYOUT.
10	NEW EXTERIOR WINDOWS AND DOORS TO BE LOCATED IN EXISTING OPENINGS U.N.O. NOTIFY ARCHITECT IMMEDIATELY IN THE CASE OF A DISCREPANCY.
11	NEW WINDOWS TO BE INSTALLED SUCH THAT BOTTOM OF THE CLEAR OPENING IS NOT GREATER THAN 44" AFF. U.N.O.
12	FURNITURE AND EQUIPMENT PROVIDED N.I.C. SHOWN DASHED FOR REFERENCE.

 DASHED FOR REFERENCE.

 13
 ALL NEW WALLS ARE TO EXTEND TO DECK, UNLESS OTHERWISE NOTED.

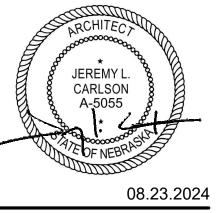
<u>KEYI</u>	NOTE LEGEND
NO.	DESCRIPTION
25	ADJACENT EXG. BUILDING
S-01	EXISTING SIDEWALK
S-02	EXISTING STAIRS AND RAILING TO REMAIN
S-03	EXISTING PARKING
S-04	PLANTER BED TO REMAIN
S-05	EXISTING SITE LIGHTING TO REMAIN
S-06	PROPERTY LINE
S-07	EXISTING BUILDING FOOTPRINT AND SITE FOR RENOVATION
S-08	60" FENCE - BASIS OF DESIGN
S-09	SELF-LATCHING, SPRING-HINGED RETRACTABLE GATE
S-10	PLANTING BED - BY OTHERS

- S-10PLANTING BED BY OTHERSS-11PICNIC TABLE BY OTHERSS-12NEW RETAINING WALL TO MATCH OPPOSITES-13NEW CIP STAIRS-144" CIP SLABS-15EXISTING RETAINING WALL TO REMAIN



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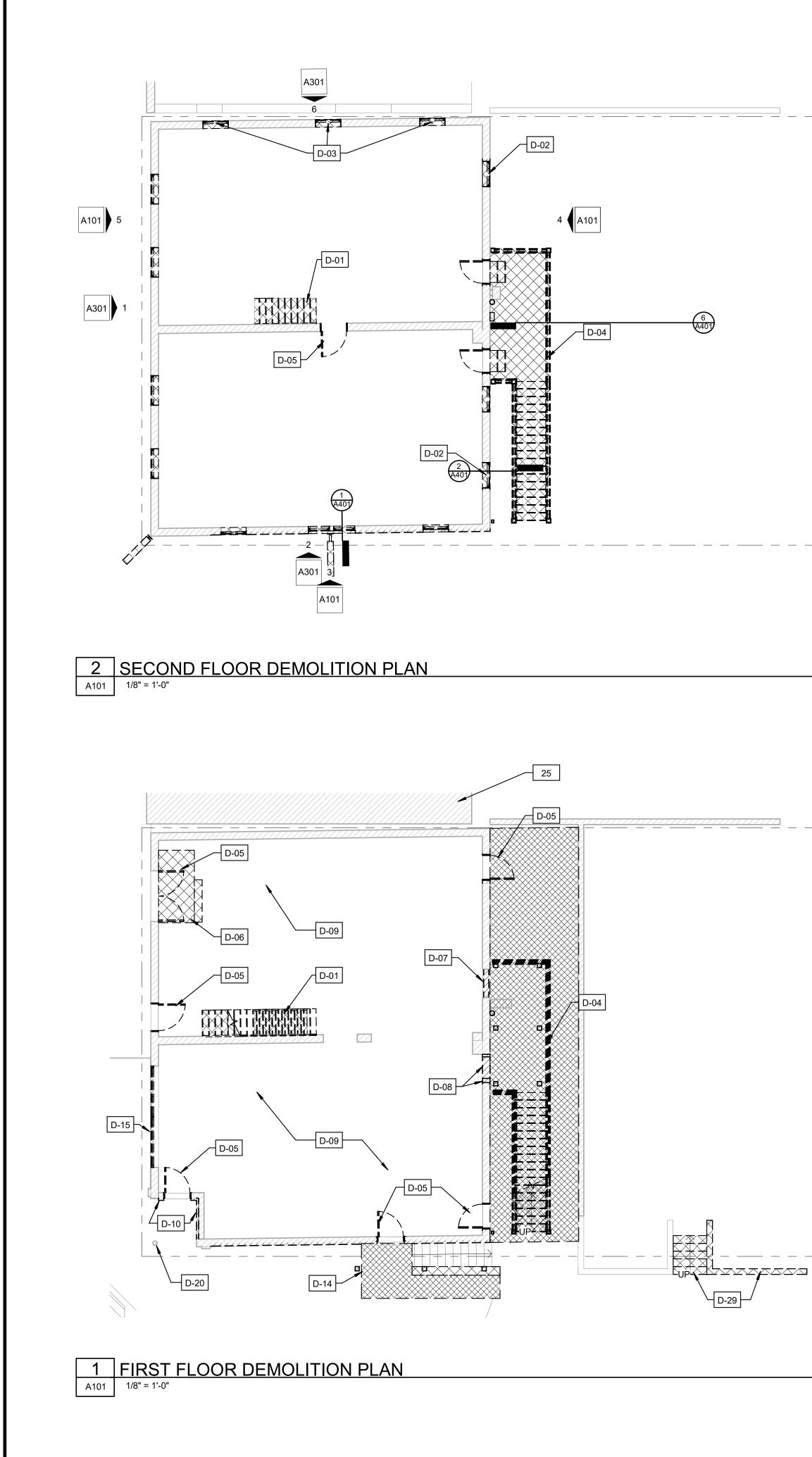


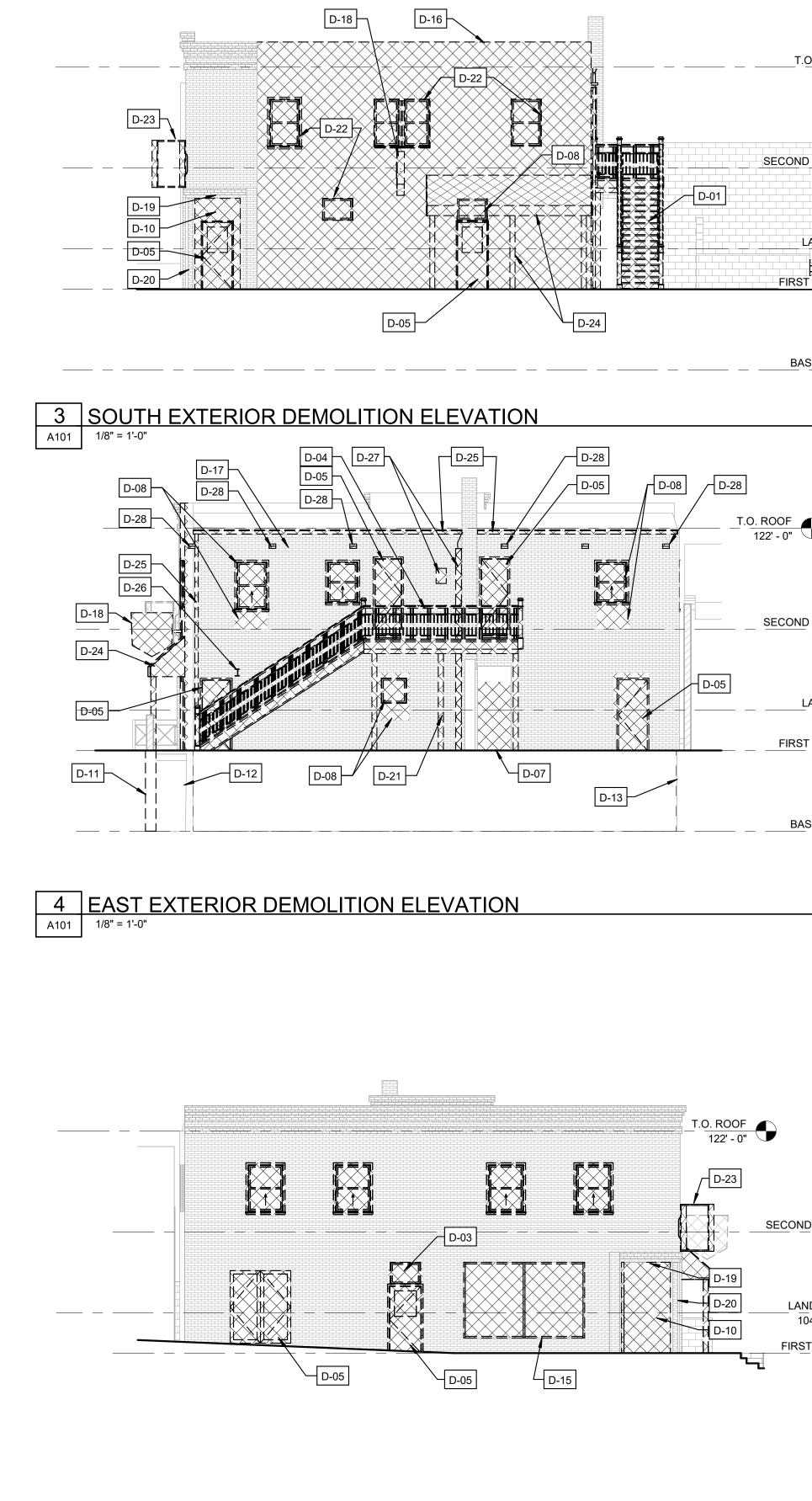
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Revisions |

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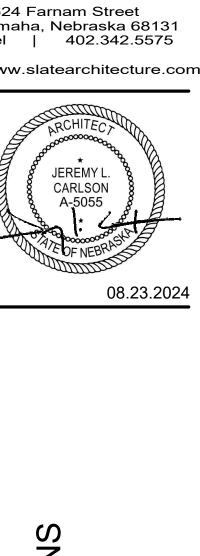






5 WEST EXTERIOR DEMOLITION ELEVATION A101 1/8" = 1'-0"

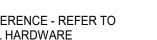
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	GEN	IERAL NOTES - DEMOLITION	
	1	THE DEMOLITION DRAWING REPRESENTS THE INTENT OF DEMOLITION TO	
		OCCUR AND IS SCHEMATIC IN NATURE WITH THE INTENT BEING TO REMOVE ALL ASSOCIATED ITEMS AS REQUIRED FOR NEW CONSTRUCTION.	
		CONTRACTOR IS RESPONSIBLE TO REMOVE ALL ITEMS IN THEIR ENTIRETY AND, UNLESS NOTED TO BE RELOCATED OR SALVAGED, DISPOSED OF	ISIAT
		ACCORDINGLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETURN TO ORIGINAL CONDITION ANY EXISTING SURFACES AND FINISHES THAT ARE	
		DAMAGED OR DESTROYED DURING THE PERFORMANCE OF DEMOLITION OR NEW CONSTRUCTION WORK THAT MAY OCCUR OUTSIDE THE DEFINED	ARCH ITECT UF
		BOUNDARIES OF WORK. CONTRACTOR SHALL ALSO NOTIFY THE OWNER OF ANY PRE-EXISTING DAMAGES OR WILL BE RESPONSIBLE TO CORRECT	
		THEM. ALL PATCH OR REPAIR WORK TO PROVIDE A SMOOTH, EVEN TRANSITION TO EXISTING SURFACES. FINISH TO MATCH ADJACENT	
T.O. ROOF 122' - 0"		EXISTING SURFACES, UNLESS OTHERWISE SCHEDULED. IF ANY DAMAGE HAS BEEN DONE, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO	3624 Farnam Street Omaha, Nebraska 68
	2	REPAIR. PROTECT ALL ITEMS/ELEMENTS NOT SPECIFIED AS BEING DEMO'D, AND	Tel 402.342.55
	3	PATCH AND REPAIR ALL DAMAGED ITEMS/ELEMENTS TO REMAIN. PATCH AND INFILL ALL MECHANICAL, ELECTRICAL & PLUMBING WORK THAT	www.slatearchitectur
		ARE OUTLINED IN THEIR SHEETS, EVEN IF NOT CALLED OUT IN THE ARCHITECTURAL SHEETS.	ARCHITECT
COND FLOOR 112' - 0"	4	THE CONTRACTOR SHALL PROVIDE ALL DEMOLITION INCIDENTAL TO OR	AKOINECX
		REQUIRED FOR NEW AND RENOVATION CONSTRUCTION WHETHER OR NOT IT IS SPECIFICALLY NOTED, INCLUDING, BUT NOT LIMITED TO, ALL OTHER	JEREMY L. &
		WORK THAT MIGHT REASONABLY BE REQUIRED TO BE REMOVED IN PREPARATION FOR SPECIFIED FINISHES. DEMOLITION SHALL BE PERFORMED IN A MANNER THAT WILL NOT DAMAGE ANY ITEMS OR	CARLSON & A-5055
		SURFACES INDICATED TO REMAIN. ITEMS OR SURFACES SHALL BE PATCHED IF NECESSARY TO PROVIDE A SUITABLE SUB-STRATA FOR NEW	to an and the
104' - 0" X X		FINISHES.	AVE OF NEBRASH
TIRST FLOOR 100' - 0"	5	PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE FACILITY AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS.	08.23
	6	THE CONTRACTOR SHALL MAINTAIN AND ADHERE TO ALL CURRENT LIFE-SAFETY AND INTERIM LIFE-SAFETY RULES AND REGULATIONS	
	7	THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. NOTIFY THE ARCHITECT OF ALL ITEMS UNCOVERED DURING DEMOLITION	
BASEMENT	8	WHICH ARE NOT INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM ALL REQUIRED	
92' - 0"	0	CAPPING AND ABANDONMENT WORK REQUIRED IN REMOVING ALL EXISTING EQUIPMENT AND FIXTURES - SEE MECHANICAL / ELECTRICAL DEMOLITION	
		DRAWING FOR MORE INFORMATION.	
	9	INTERFERE WITH DEMOLITION WORK.	
	10	ITEMS TO BE RELOCATED SHALL BE KEPT ON-SITE, IN A SAFE AND CLEAN ENVIRONMENT, IN AN AREA NOT TO INTERRUPT NORMAL BUILDING	
	11	ACTIVITIES. COORDINATE W/ OWNER AND PHASING PLAN. ITEMS INDICATED FOR DEMOLITION MAY BE SALVAGED AT THE OWNER'S	
F		DISCRETION. ITEMS DETERMINED TO BE SALVAGED AND/OR REUSED TO BE PROTECTED DURING DEMOLITION AND STORED SAFELY FOR REUSE.	S S S
0"	SYN	IBOL LEGEND	
			ENOVATIO
		EXISTING CONSTRUCTION TO BE DEMOLISHED, FIELD VERIFY TYPES AND	
		CONDITIONS. REVIEW NOTES FOR EXTENTS OF CONSTRUCTION IF APPLICABLE	
112' - 0"			
		= = = = = = EXISTING WALL/ITEM/ELEMENT TO BE DEMOLISHED, FIELD VERIFY TYPES AND	
		CONDITIONS	
LANDING 104' - 0"		EXISTING WALL/ITEM/ELEMENT TO REMAIN AND BE PROTECTED, FIELD VERIFY TYPES	
		AND CONDITIONS	
100' - 0"			
	KEY	NOTE LEGEND	ARTMEN
BASEMENT	NO.		AR 27
92' - 0"	25 D-01	ADJACENT EXG. BUILDING REMOVE STAIR AND HANDRAIL COMPLETE. PROTECT ADJACENT	P/ 81:
	D-02	LOAD-BEARING CONSTRUCTION. REMOVE PORTION OF WALL AND WINDOW AS REQUIRED FOR NEW DOOR.	ST ST ST
	D-03	REMOVE EXISTING WINDOW AND FRAME. PREPARE OPENING TO RECEIVE NEW WINDOW.	
		REMOVE DECK, STAIRS AND RAILING IN ITS ENTIRETY.	
	D-06	REMOVE DOOR AND FRAME COMPLETE. REMOVE BUILT-UP FLOOR AND STEP COMPLETE.	ST S 7 S 7
		REMOVE PORTION OF INFILL AS REQUIRED FOR NEW CONSTRUCTION. REMOVE EXISTING WINDOW, FRAME AND PORTION OF EXTERIOR WALL AS	
		REQUIRED FOR NEW CONSTRUCTION. INSPECT INTEGRITY OF SUBFLOOR AND FLOOR JOISTS. REMOVE ANY	FAL 5617 RALS
		DAMAGED SUBFLOOR AND FLOOR JOISTS AND TAKE PRECAUTION TO PRESERVE THE INTEGRITY OF ADJACENT REMAINING CONSTRUCTION.	
		REMOVE EXISTING STONE. PROTECT EXISTING SUB-STRUCTURE. REMOVE EXISTING RETAINING WALL. PROVIDE SHORING AS REQUIRED TO	
		PREPARE FOR CONSTRUCTION OF NEW WALL. EXISTING STAIRS TO REMAIN.	1
	D-13	INTERIOR OF EXISTING BASEMENT WALLS SHOWN DASHED.	1
		REMOVE PORTIONS OF CONCRETE AS REQUIRED FOR CONSTRUCTION OF NEW RETAINING WALL.	
	D-15	REMOVE EXISTING WINDOW - PROTECT EXISTING OPENING AND PREPARE FOR A NEW STOREFRONT SYSTEM.	
	D-16	REMOVE EXISTING STUCCO. PROTECT EXISTING SUBSTRATE, CLEAN AND PREPARE FOR NEW FINISH.	Revisions
		CLEAN EXG. BRICK AND PREPARE FOR NEW FINISH REMOVE EXISTING SIGN AND SALVAGE FOR REUSE.	
		CLEAN AND REMOVE ANY RUST FROM HEADER. PREPARE FOR NEW PAINT. REMOVE DAMAGED SUBSTRATE	
112' - 0"	D-20	CLEAN AND REMOVE RUST FROM EXG. COLUMN. PREPARE FOR NEW PAINT.	
		REMOVE DECK COLUMNS AND SUPPORT. PROTECT EXISTING WINDOW FRAME	1
		REMOVE EXISTING BLADE SIGN AND SUPPORTING HARDWARE. PROTECT EXISTING BRICK.	
LANDING 104' - 0"		REMOVE FABRIC CANOPY AND SUPPORT STRUCTURE.	Project No. 23042
		REMOVE GUTTER AND DOWNSPOUT. CUT DOWN AND REMOVE EXPOSED PORTION OF REMAINING STEEL	Issue Date 08.23.202
100' - 0"		STRUCTURE TO PROVIDE SURFACE FLUSH W/ EXTERIOR FACE OF EXISTING BRICK	·
	D-27	DISCONNECT AND REMOVE EXG. ELECTRICAL BOX, CONDUIT AND WALL MOUNTED ACCESSORIES PER CODE.	1
	D-28	REMOVE PORTION OF PROTRUDING DECORATIVE BRICK ELEMENT DOWN TO FLUSH WITH FACE OF EXISTING EXTERIOR WALL.	
	D-29	REMOVE STAIR AND RETAINING WALL AS INDICATED.	FLOOR PL

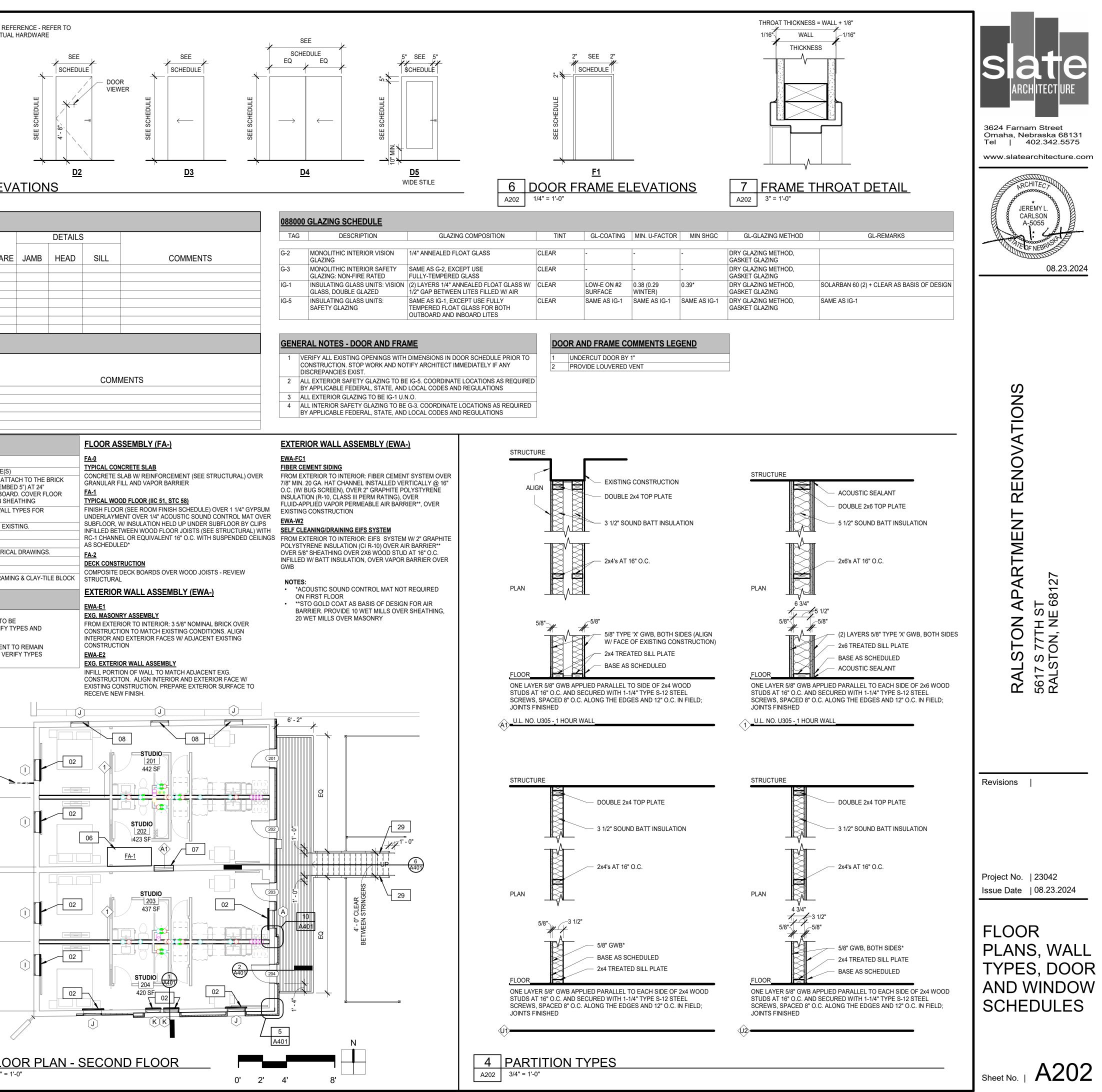


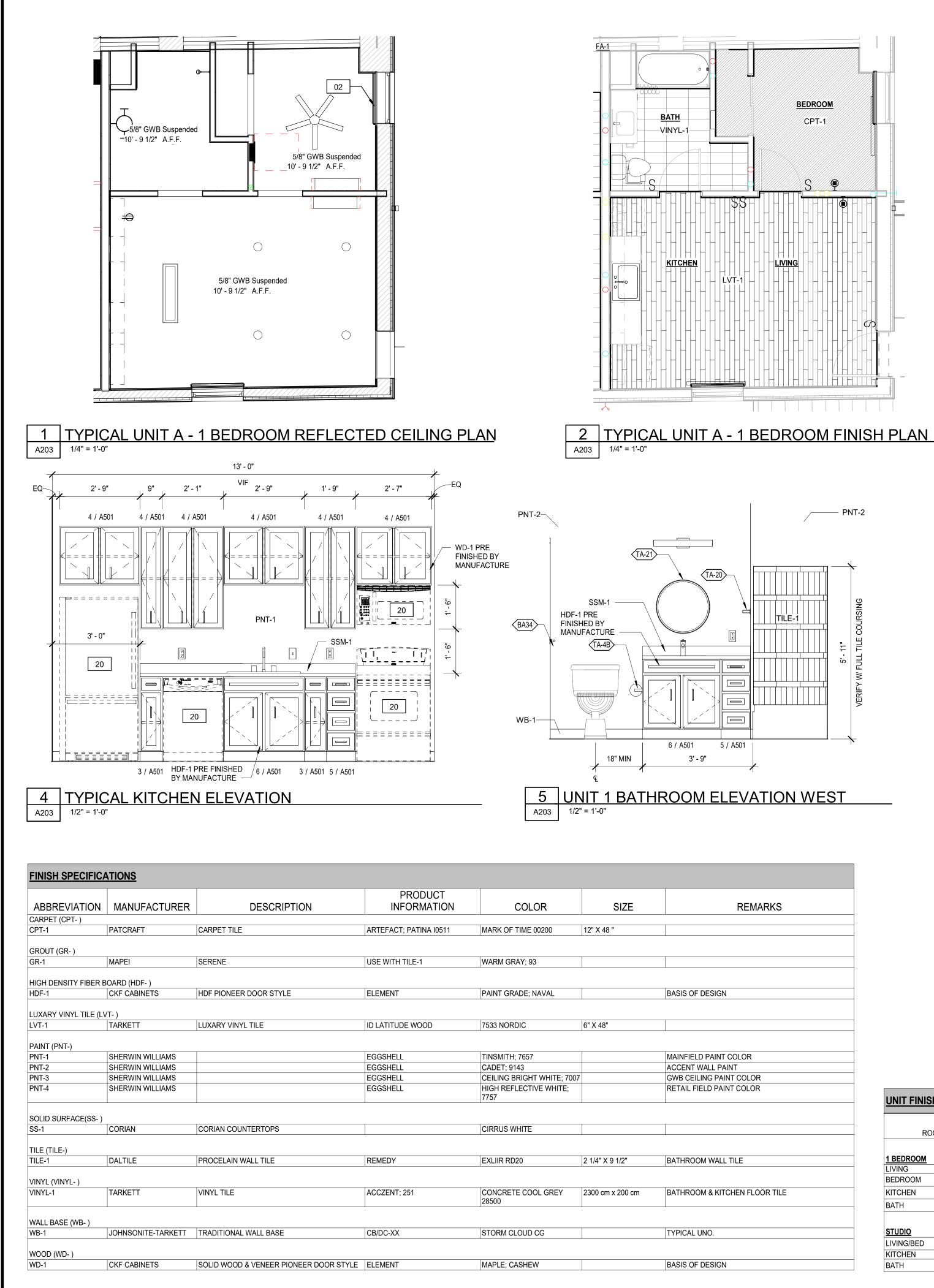
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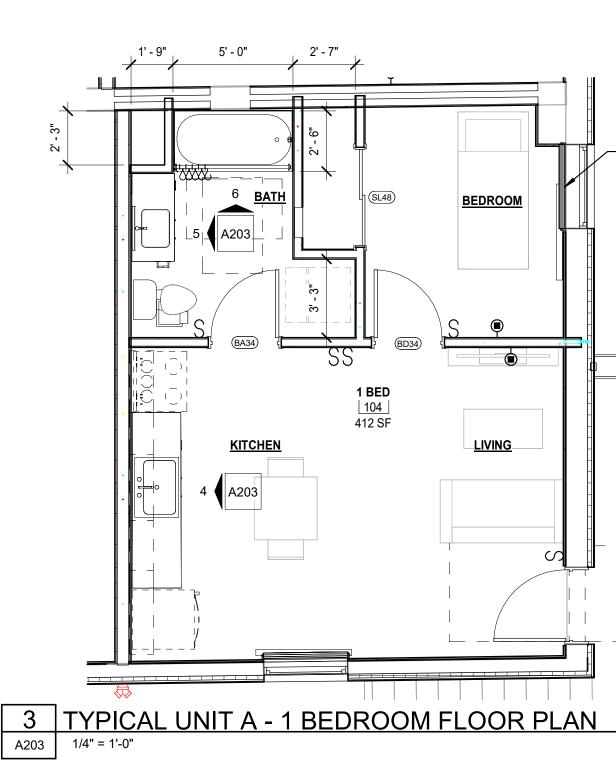


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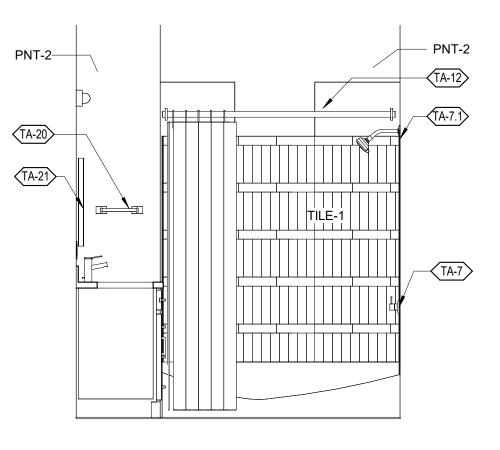








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6 UNIT 1 BATHROOM ELEVATION NORTH A203 1/2" = 1'-0"

4		

				WALL	FINISH		CEILING
ROOM NAME	FLOOR FINISH	BASE	NORTH	EAST	SOUTH	WEST	MATERIA
1 BEDROOM							
LIVING	LVT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-3
BEDROOM	CPT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-3
KITCHEN	LVT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3
BATH	VINYL-1	WB-1	PNT-2	PNT-2	PNT-2	PNT-2	PNT-3
<u>STUDIO</u>							
LIVING/BED	CPT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-3
KITCHEN	LVT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-3
BATH	VINYL-1	WB-1	PNT-2	PNT-2	PNT-2	PNT-2	PNT-3

1	ERAL N	OTES - FLOOR PLAN			
	INFORMA FOR THE AND CON	NT OF THE DRAWINGS IS TO P TION FOR CONSTRUCTION. IT CONTRACTOR TO VERIFY FIEL DITIONS BEFORE EXECUTION THE ARCHITECT SHOULD DIS	IS IMPORTANT D DIMENSIONS OF THE WORK.		slate
2	CONTRAC PROVIDE COMPLE FOR IN SI A COMPL	CTOR AND SUBCONTRACTORS ALL LABOR, MATERIALS AND E TE ALL WORK SHOWN ON PLAN PECIFICATION, OR REASONABL ETE INSTALLATION EVEN THOU ON PLANS OR CALLED OUT IN	QUIPMENT TO S, CALLED Y IMPLIED FOR		ARCHITECTURE
3	REVIEW S REHABILI COMMEN	SHEET S100 AND PERFORM BUI TATION RECOMMENDATIONS F ICING WORK. WHERE RECOMM IPE OF WORK OVERLAP, DEFER	RIOR TO ENDATIONS		3624 Farnam Street Omaha, Nebraska 6813 Tel 402.342.5575 www.slatearchitecture.c
4 5 6	MATERIA DIMENSIO OTHERW	LOOR IS TRANSITIONING TO A L, INSTALL A TRANSITION STRI DNS ARE FROM FACE OF STUD ISE NOTED. SHALL BE PROMPTLY REMOVED	D. UNLESS	-	ARCHITEC7
7	BUILDING MANNER. SHALL BE AT THE E	AND THE SITE AND DISPOSED SURFACES IN THE CONSTRUC MAINTAINED IN A BROOM CLE ND OF EACH WORK DAY. TRACTOR SHALL PROVIDE ALL	OF IN A LEGAL CTION AREA AN CONDITION		A-5055
	INCIDENT RENOVAT SPECIFIC TO, ALL C REQUIRE SPECIFIE PERFORM ANY ITEM	TAL TO OR REQUIRED FOR NEW FION CONSTRUCTION WHETHE CALLY NOTED, INCLUDING, BUT DTHER WORK THAT MIGHT REA D TO BE REMOVED IN PREPAR D FINISHES. DEMOLITION SHA MED IN A MANNER THAT WILL N IS OR SURFACES INDICATED TO R SURFACES SHALL BE PATCHE	/ AND R OR NOT IT IS NOT LIMITED SONABLY BE ATION FOR LL BE OT DAMAGE D REMAIN.		08.23.20
<u>SYM</u>	BOL LE				
0	VERIFIED	WITH LOCAL FIRE AUTHORITY			
9	UNIT LAY	OUTS SHOWN HALFTONE FOR CANSED AND PORVAY OLFMEN ERIOR WINDOWS AND DOORS ERIOR WINDOWS AND DOORS	REFERENCE. EMENT TO BE		
10	ARCHITE DISCREP) IN EXISTING OPENINGS U.N.O CT IMMEDIAEEXISTINGHVEALA3年 ANCY. AND BE PROTECTE	. NOTIFY QMF/EALEMENT TO ED, FIELD VERIF	O REMAIN Y TYPES	
11		DOWS TO BEINDS AND DOWS TO BEINDS AND GREAT	THAT BOTTOM		S N N
	AFF. U.N.	0.			
12	FURNITU	RE AND EQUIPMENT PROVIDED	N.I.C. SHOWN		
<u>KEY</u>	NOTE LE	EGEND			
NO.		DESCRI			
02		BLINDS; G.C. TO FIELD VERIFY I NT IS OFCI.	FINAL SIZE(S)		Ó
-20		BLINDS, TYP. SEE A202 FOR LO	CATIONS		ENOVATIO
20 21					I 111
21	ET ACC	ESSORIES SCHEDUL			
21 TOIL	ET ACC	ESSORIES SCHEDULE DESCRIPTION		MODEL	
21 TOIL TA-4B	TAG	DESCRIPTION Toilet Tissue Dispenser	508-52	MODEL	NT RE
21	TAG	DESCRIPTION	508-52	MODEL	ENT RE
21 TOIL TA-4B TA-7 TA-7.1 TA-12	TAG	DESCRIPTION Toilet Tissue Dispenser Wall mounted tub/shower valve Wall mounted shower head Shower Curtain Rod		MODEL	MENT RE
21 TOIL TA-4B TA-7 TA-7.7 TA-12 TA-20	TAG	DESCRIPTION Toilet Tissue Dispenser Wall mounted tub/shower valve Wall mounted shower head Shower Curtain Rod Towel Bar - 24" W	907-24	MODEL	TMENT RE
21 TOIL TA-4B TA-7 TA-7.1 TA-12	TAG	DESCRIPTION Toilet Tissue Dispenser Wall mounted tub/shower valve Wall mounted shower head Shower Curtain Rod Towel Bar - 24" W Round Mirror 22 Inch	907-24 K-31367-CPL		RTMENT R
21 TOIL TA-4B TA-7 TA-7.1 TA-12 TA-20	TAG NOTE: HA	DESCRIPTION Toilet Tissue Dispenser Wall mounted tub/shower valve Wall mounted shower head Shower Curtain Rod Towel Bar - 24" W	907-24 K-31367-CPL PE AND IS NOT	A	PARTMENT R - 58127
21 TA-4B TA-7 TA-7.1 TA-12 TA-20	TAG NOTE: HA REPRESE	DESCRIPTION Toilet Tissue Dispenser Wall mounted tub/shower valve Wall mounted shower head Shower Curtain Rod Towel Bar - 24" W Round Mirror 22 Inch	907-24 K-31367-CPL PE AND IS NOT ERIAL COURSIN	A	TON APARTMENT R 7TH ST N, NE 68127
21 TOIL TA-4B TA-7 TA-7.1 TA-12 TA-20	TAG NOTE: HA REPRESE	DESCRIPTION Toilet Tissue Dispenser Wall mounted tub/shower valve Wall mounted shower head Shower Curtain Rod Towel Bar - 24" W Round Mirror 22 Inch ATCH INDICATES MATERIAL TY ENTATION OF INDIVIDUAL MATI	907-24 K-31367-CPL PE AND IS NOT ERIAL COURSIN	A	PARTMENT R - 58127

Project No. | 23042 Issue Date | 08.23.2024

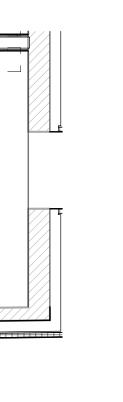
UNIT PLANS

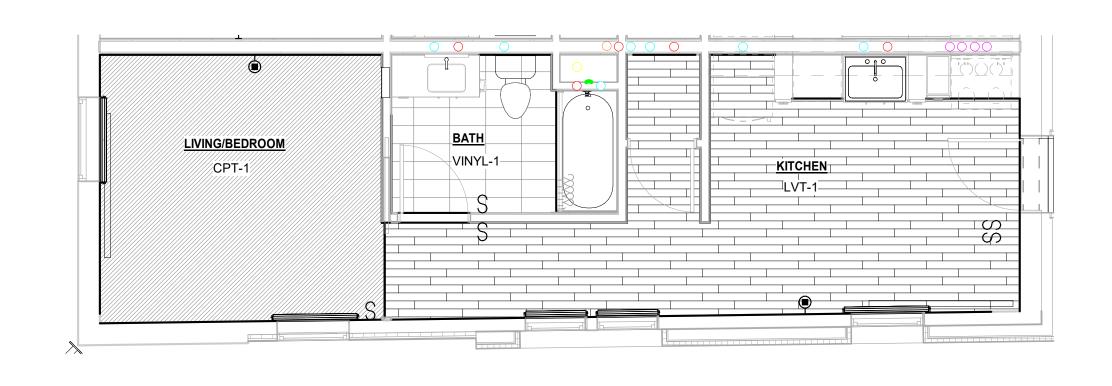
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	5/8" GWB Suspende 8' - 0" A.F.F.	G G G G G G G G G G G G G G G G G G G		5/8" GWB Sus 8' - 0" A.F.	pended F.	
1 TYF A204 1/4" =		<u> - STUDIO REFLECTE</u>	<u>D CEILING PLAN</u>	N		
				13 13 4 REV KITCHEN A203		
3 TYF A204 1/4" =		<u>3 - STUDIO FLOOR PL</u>				
3 TYF	: 1'-0"	<u>STUDIO FLOOR PL</u>				
3 TYF A204 1/4" = FINISH SPECIFIC ABBREVIATION	: 1'-0" CATIONS			COLOR	SIZE	
3 TYF A204 1/4" =	: 1'-0" CATIONS		PRODUCT	COLOR MARK OF TIME 00200	SIZE	
3 TYF A204 1/4" = FINISH SPECIFIC ABBREVIATION CARPET (CPT-) CPT-1 GROUT (GR-) GR-1	CATIONS MANUFACTURER PATCRAFT MAPEI	DESCRIPTION	PRODUCT			
3 TYF A204 1/4" = FINISH SPECIFIC ABBREVIATION CARPET (CPT-) CPT-1 GROUT (GR-)	CATIONS MANUFACTURER PATCRAFT MAPEI	DESCRIPTION	PRODUCT INFORMATION ARTEFACT; PATINA 10511	MARK OF TIME 00200		BASIS OF DESIGN
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3TYFA2041/4" =1/4" =A2041/4" =ABBREVIATIONCARPET (CPT-)CPT-1GROUT (GR-)GR-1HIGH DENSITY FIBERHDF-1LUXARY VINYL TILELVT-1PAINT (PNT-)	Image: 1'-0" CATIONS MANUFACTURER PATCRAFT MAPEI BOARD (HDF-) CKF CABINETS LVT-) TARKETT	DESCRIPTION CARPET TILE SERENE HDF PIONEER DOOR STYLE	PRODUCT INFORMATION ARTEFACT; PATINA I0511 USE WITH TILE-1 USE WITH TILE-1 ELEMENT ID LATITUDE WOOD	MARK OF TIME 00200 WARM GRAY; 93 PAINT GRADE; NAVAL 7533 NORDIC	12" X 48 "	
3TYFA2041/4" =1/4" =A2041/4" =Image: state stat	Image: 1'-0" CATIONS MANUFACTURER PATCRAFT MAPEI RBOARD (HDF-) CKF CABINETS LVT-) TARKETT SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS	DESCRIPTION CARPET TILE SERENE HDF PIONEER DOOR STYLE	PRODUCT INFORMATION ARTEFACT; PATINA I0511 USE WITH TILE-1 USE WITH TILE-1 ID LATITUDE WOOD EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL	MARK OF TIME 00200 WARM GRAY; 93 PAINT GRADE; NAVAL 7533 NORDIC TINSMITH; 7657 CADET; 9143 CEILING BRIGHT WHITE; 70	12" X 48 "	MAINFIELD PAINT (ACCENT WALL PAI GWB CEILING PAIN
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3TYFA2041/4" =1/4" =A2041/4" =Image: state stat	Image: 1'-0" CATIONS MANUFACTURER PATCRAFT PATCRAFT MAPEI RBOARD (HDF-) CKF CABINETS LVT-) TARKETT SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS	DESCRIPTION CARPET TILE SERENE HDF PIONEER DOOR STYLE	PRODUCT INFORMATION ARTEFACT; PATINA I0511 USE WITH TILE-1 USE WITH TILE-1 ID LATITUDE WOOD EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL	MARK OF TIME 00200 WARM GRAY; 93 PAINT GRADE; NAVAL 7533 NORDIC TINSMITH; 7657 CADET; 9143 CEILING BRIGHT WHITE; 70 HIGH REFLECTIVE WHITE;	12" X 48 "	MAINFIELD PAINT (ACCENT WALL PAI GWB CEILING PAIN
3TYFA2041/4" =1/4" =A2041/4" =I/4" =ABBREVIATIONCARPET (CPT-)CPT-1GROUT (GR-)GR-1HIGH DENSITY FIBEFHDF-1LUXARY VINYL TILELUXARY VINYL TILELUXARY VINYL TILELVT-1PNT-1PNT-2PNT-3PNT-4SOLID SURFACE(SS-SS-1)TILE (TILE-)	I '-0" CATIONS MANUFACTURER PATCRAFT PATCRAFT MAPEI RBOARD (HDF-) CKF CABINETS LVT-) TARKETT SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS CORIAN	DESCRIPTION CARPET TILE SERENE HDF PIONEER DOOR STYLE LUXARY VINYL TILE LUXARY VINYL TILE CORIAN COUNTERTOPS	PRODUCT INFORMATION ARTEFACT; PATINA I0511 USE WITH TILE-1 USE WITH TILE-1 ELEMENT ID LATITUDE WOOD EGGSHELL	MARK OF TIME 00200 WARM GRAY; 93 PAINT GRADE; NAVAL 7533 NORDIC TINSMITH; 7657 CADET; 9143 CEILING BRIGHT WHITE; 70 HIGH REFLECTIVE WHITE; 7757 CIRRUS WHITE	12" X 48 " 6" X 48" 07	MAINFIELD PAINT (ACCENT WALL PAI GWB CEILING PAIN RETAIL FIELD PAIN
3TYFA2041/4" =1/4" =A2041/4" =Image: state stat	Image: 1'-0" CATIONS MANUFACTURER PATCRAFT PATCRAFT MAPEI RBOARD (HDF-) CKF CABINETS LVT-) TARKETT SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS	DESCRIPTION CARPET TILE SERENE HDF PIONEER DOOR STYLE LUXARY VINYL TILE	PRODUCT INFORMATION ARTEFACT; PATINA I0511 USE WITH TILE-1 USE WITH TILE-1 ID LATITUDE WOOD EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL	MARK OF TIME 00200 WARM GRAY; 93 PAINT GRADE; NAVAL 7533 NORDIC TINSMITH; 7657 CADET; 9143 CEILING BRIGHT WHITE; 70 HIGH REFLECTIVE WHITE; 7757	12" X 48 "	MAINFIELD PAINT (ACCENT WALL PAI GWB CEILING PAIN
3 TYF A204 1/4" = I/4" = 1/4" = A204 1/4" = A204 </td <td>I '-0" MANUFACTURER MAPEI MAPEI BOARD (HDF-) CKF CABINETS LVT-) TARKETT SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ORIAN CORIAN TARKETT</td> <td>DESCRIPTION CARPET TILE SERENE HDF PIONEER DOOR STYLE LUXARY VINYL TILE LUXARY VINYL TILE CORIAN COUNTERTOPS PROCELAIN WALL TILE VINYL TILE</td> <td>PRODUCT INFORMATION ARTEFACT; PATINA I0511 USE WITH TILE-1 USE WITH TILE-1 ID LATITUDE WOOD EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL REMEDY ACCZENT; 251</td> <td>MARK OF TIME 00200 WARM GRAY; 93 PAINT GRADE; NAVAL 7533 NORDIC TINSMITH; 7657 CADET; 9143 CEILING BRIGHT WHITE; 70 HIGH REFLECTIVE WHITE; 7757 CIRRUS WHITE EXLIIR RD20 CONCRETE COOL GREY 28500</td> <td>12" X 48 " 6" X 48" 6" X 48" 2 1/4" X 9 1/2"</td> <td>MAINFIELD PAINT (ACCENT WALL PAIN GWB CEILING PAIN RETAIL FIELD PAIN BATHROOM WALL</td>	I '-0" MANUFACTURER MAPEI MAPEI BOARD (HDF-) CKF CABINETS LVT-) TARKETT SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ORIAN CORIAN TARKETT	DESCRIPTION CARPET TILE SERENE HDF PIONEER DOOR STYLE LUXARY VINYL TILE LUXARY VINYL TILE CORIAN COUNTERTOPS PROCELAIN WALL TILE VINYL TILE	PRODUCT INFORMATION ARTEFACT; PATINA I0511 USE WITH TILE-1 USE WITH TILE-1 ID LATITUDE WOOD EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL EGGSHELL REMEDY ACCZENT; 251	MARK OF TIME 00200 WARM GRAY; 93 PAINT GRADE; NAVAL 7533 NORDIC TINSMITH; 7657 CADET; 9143 CEILING BRIGHT WHITE; 70 HIGH REFLECTIVE WHITE; 7757 CIRRUS WHITE EXLIIR RD20 CONCRETE COOL GREY 28500	12" X 48 " 6" X 48" 6" X 48" 2 1/4" X 9 1/2"	MAINFIELD PAINT (ACCENT WALL PAIN GWB CEILING PAIN RETAIL FIELD PAIN BATHROOM WALL
3 TYF A204 1/4" = 1/4" = 1/4" = A204 1/4" = A204 1/4" = ABBREVIATION ABBREVIATION CARPET (CPT-) CPT-1 GROUT (GR-) GR-1 HIGH DENSITY FIBER HDF-1 LUXARY VINYL TILE LVT-1 PAINT (PNT-) PNT-1 PNT-1 PNT-2 PNT-3 PNT-4 SOLID SURFACE(SS-SS-1) TILE (TILE-) TILE (TILE-) TILE-1 VINYL (VINYL-) VINYL-1	Image: 1'-0" Image: I	DESCRIPTION CARPET TILE SERENE HDF PIONEER DOOR STYLE LUXARY VINYL TILE LUXARY VINYL TILE CORIAN COUNTERTOPS PROCELAIN WALL TILE	PRODUCT INFORMATION ARTEFACT; PATINA I0511 USE WITH TILE-1 USE WITH TILE-1 ID LATITUDE WOOD EGGSHELL EGGSHELL	MARK OF TIME 00200 WARM GRAY; 93 PAINT GRADE; NAVAL 7533 NORDIC TINSMITH; 7657 CADET; 9143 CEILING BRIGHT WHITE; 70 HIGH REFLECTIVE WHITE; 7757 CIRRUS WHITE EXLIIR RD20 CONCRETE COOL GREY	12" X 48 " 6" X 48" 6" X 48" 2 1/4" X 9 1/2"	MAINFIELD PAINT (ACCENT WALL PAIN GWB CEILING PAIN RETAIL FIELD PAIN

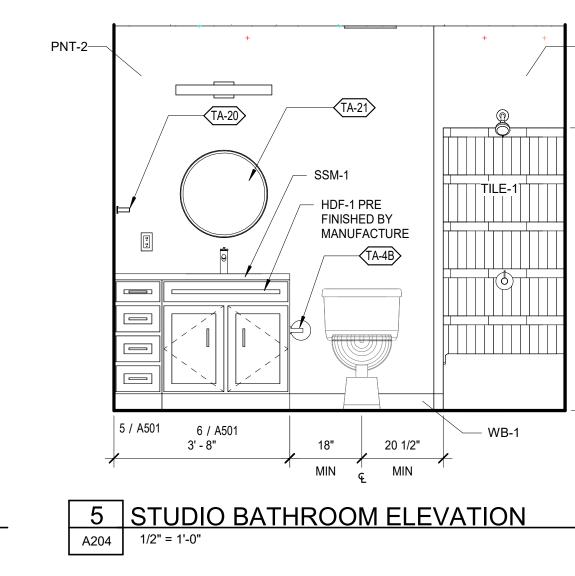
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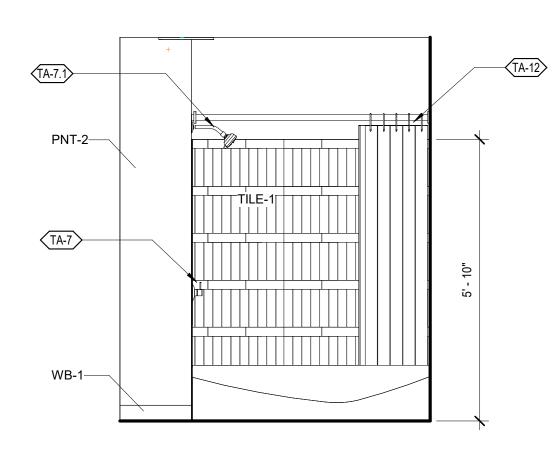




– PNT-2

2 TYPICAL UNIT B - STUDIO FINISH PLAN A204 1/4" = 1'-0"







REMARKS
BASIS OF DESIGN
MAINFIELD PAINT COLOR
 ACCENT WALL PAINT
 GWB CEILING PAINT COLOR
RETAIL FIELD PAINT COLOR
BATHROOM WALL TILE
BATHROOM & KITCHEN FLOOR TILE

			WALL FINISH					
ROOM NAME	FLOOR FINISH	BASE	NORTH	EAST	SOUTH	WEST	MATER	
1 BEDROOM								
LIVING	LVT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT	
BEDROOM	CPT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT	
KITCHEN	LVT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT	
BATH	VINYL-1	WB-1	PNT-2	PNT-2	PNT-2	PNT-2	PNT	
<u>STUDIO</u>								
LIVING/BED	CPT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT	
KITCHEN	LVT-1	WB-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT	
BATH	VINYL-1	WB-1	PNT-2	PNT-2	PNT-2	PNT-2	PNT	

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LUXURY VINYL TILE (LVT-1)

GENERAL NOTES - FLOOR PLAN





08.23.2024

RENOVATIONS RALSTON APARTMENT 5617 S 77TH ST RALSTON, NE 68127

Revisions |

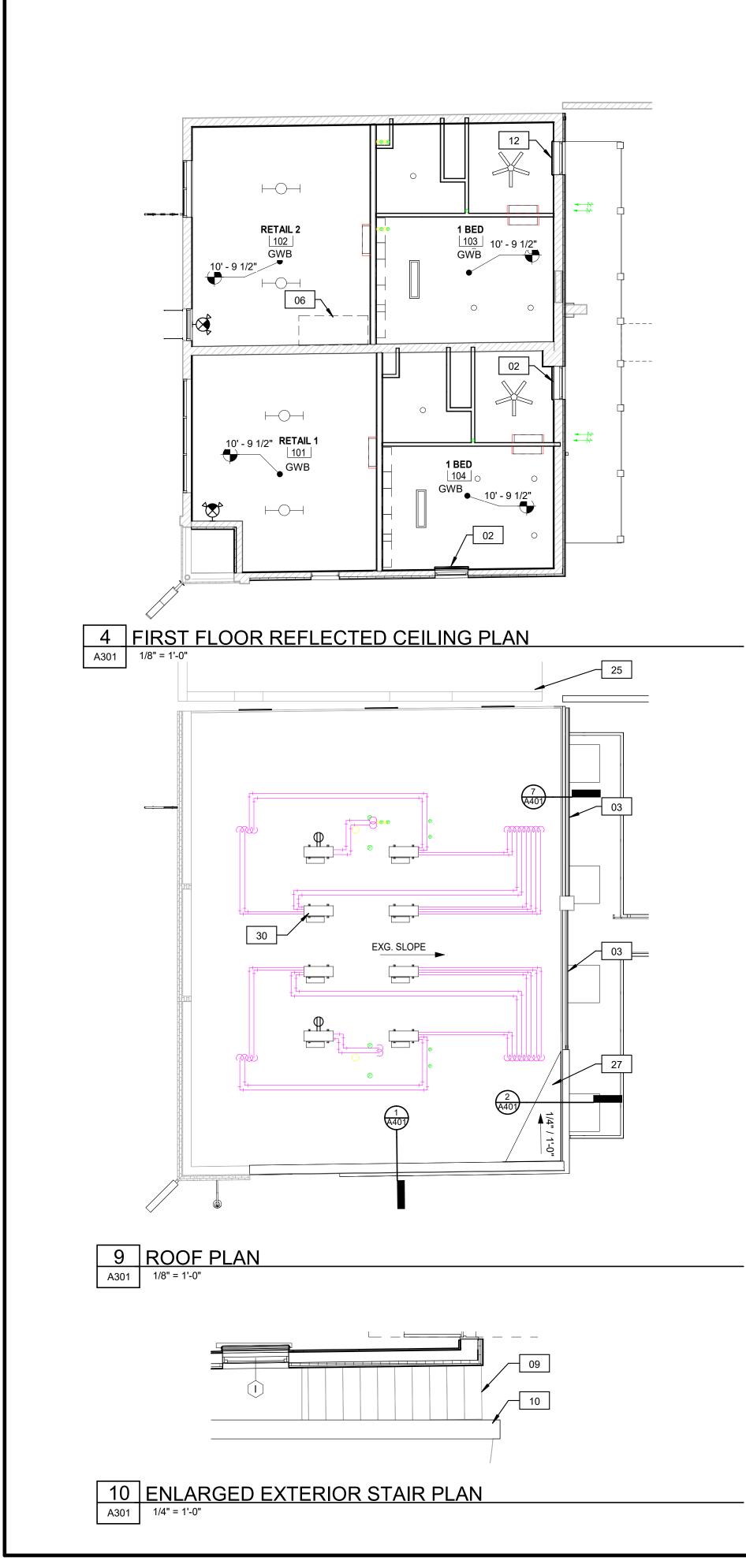
Project No. | 23042 Issue Date | 08.23.2024

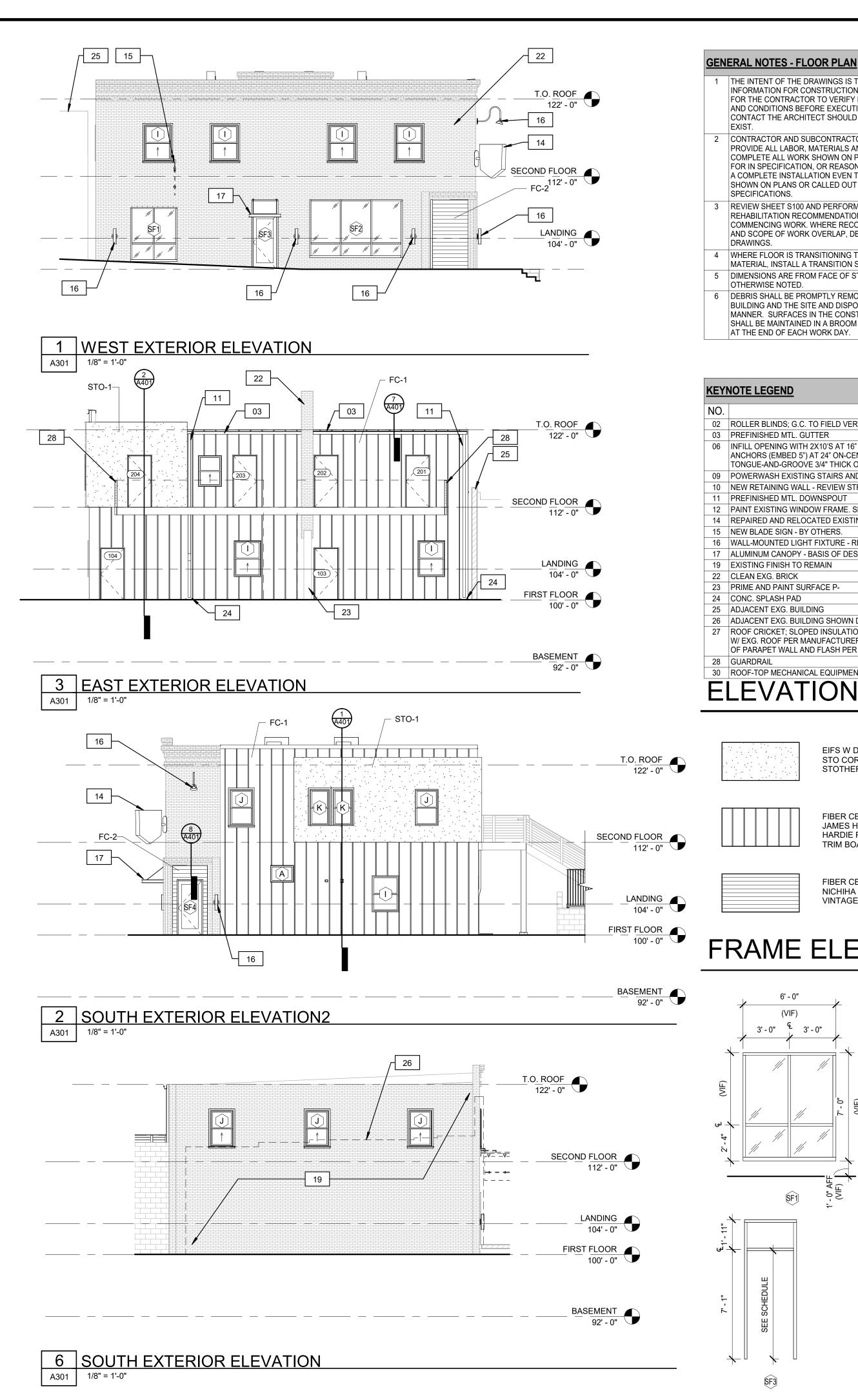
UNIT	PLANS

iling Erial	COMMENTS
NT-3	
VT-3	
NT-3	
NT-3	
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VT-3	











Project No. | 23042



Issue Date | 08.23.2024



Revisions

FRAME ELEVATIONS





6' - 0"

(VIF)

SF1

⊎ 🛧 ⊨ 🛨

SF3

3' - 0" 🗧 3' - 0"

SF4

12' - 0"

(VIF)

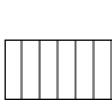
EQ

SF2

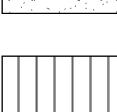
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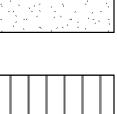
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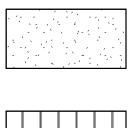
- 6" AF (VIF)



FIBER CEMENT (FC-1) JAMES HARDIE HARDIE PANEL VERTICAL SIDING WITH







EIFS W DRAINAGE (STO-1) STO CORP. STOTHERM CI LOTUSAN SYSTEM

28 GUARDRAIL 30 ROOF-TOP MECHANICAL EQUIPMENT - REVIEW MECHANICAL DRAWINGS. **ELEVATION MATERIAL LEGEND**

27 ROOF CRICKET; SLOPED INSULATION W/ ROOF MEMBRANE. MATCH EXG. ROOF MEMBRANE, PATCH AND REPAIR W/ EXG. ROOF PER MANUFACTURER REQUIREMENTS. SLOPE AS INDICATED. RETURN MEMBRANE UP BACK-SIDE OF PARAPET WALL AND FLASH PER MANUFACTUER'S REQUIREMENTS.

25 ADJACENT EXG. BUILDING 26 ADJACENT EXG. BUILDING SHOWN DASHED FOR REFERENCE

02 ROLLER BLINDS; G.C. TO FIELD VERIFY FINAL SIZE(S)

1 THE INTENT OF THE DRAWINGS IS TO PROVIDE

2 CONTRACTOR AND SUBCONTRACTORS SHALL

SHOWN ON PLANS OR CALLED OUT IN

3 REVIEW SHEET S100 AND PERFORM BUILDING

AND SCOPE OF WORK OVERLAP, DEFER TO

4 WHERE FLOOR IS TRANSITIONING TO A DIFFERENT

REHABILITATION RECOMMENDATIONS PRIOR TO

COMMENCING WORK. WHERE RECOMMENDATIONS

EXIST.

SPECIFICATIONS.

DRAWINGS.

KEYNOTE LEGEND

OTHERWISE NOTED.

AT THE END OF EACH WORK DAY.

INFORMATION FOR CONSTRUCTION. IT IS IMPORTANT

FOR THE CONTRACTOR TO VERIFY FIELD DIMENSIONS

AND CONDITIONS BEFORE EXECUTION OF THE WORK.

CONTACT THE ARCHITECT SHOULD DISCREPANCIES

PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO

FOR IN SPECIFICATION, OR REASONABLY IMPLIED FOR

A COMPLETE INSTALLATION EVEN THOUGH NEITHER

COMPLETE ALL WORK SHOWN ON PLANS, CALLED

- 16 WALL-MOUNTED LIGHT FIXTURE REVIEW ELECTRICAL DRAWINGS.
- 12 PAINT EXISTING WINDOW FRAME. SEE EXTERIOR ELEVATIONS FOR COLOR.
- 14 REPAIRED AND RELOCATED EXISTING BLADE SIGN.

09 POWERWASH EXISTING STAIRS AND SEAL W/ SILANE/SILOXANE SEALER.

- 15 NEW BLADE SIGN BY OTHERS.

06 INFILL OPENING WITH 2X10'S AT 16" ON-CENTER, ATTACH TO THE BRICK WALL VIA 5/8" DIA. EPOXY ADHESIVE ANCHORS (EMBED 5") AT 24" ON-CENTER, STAGGERED, ON TO THE 2X10 RIM-BOARD. COVER FLOOR JOISTS W/

TONGUE-AND-GROOVE 3/4" THICK OSB SHEATHING

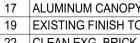
10 NEW RETAINING WALL - REVIEW STRUCTURAL DRAWINGS.

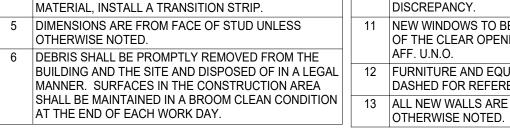
17 ALUMINUM CANOPY - BASIS OF DESIGN: MAPES SUPER LUMIDECK. CONTRACTOR TO FIELD VERIFY DIMENSIONS.

11 PREFINISHED MTL. DOWNSPOUT

23 PRIME AND PAINT SURFACE P-24 CONC. SPLASH PAD

19 EXISTING FINISH TO REMAIN 22 CLEAN EXG. BRICK





DESCRIPTION

7 THE CONTRACTOR SHALL PROVIDE ALL DEMOLITION INCIDENTAL TO OR REQUIRED FOR NEW AND RENOVATION CONSTRUCTION WHETHER OR NOT IT IS SPECIFICALLY NOTED, INCLUDING, BUT NOT LIMITED TO, ALL OTHER WORK THAT MIGHT REASONABLY BE REQUIRED TO BE REMOVED IN PREPARATION FOR SPECIFIED FINISHES. DEMOLITION SHALL BE PERFORMED IN A MANNER THAT WILL NOT DAMAGE ANY ITEMS OR SURFACES INDICATED TO REMAIN. ITEMS OR SURFACES SHALL BE PATCHED IF NECESSARY TO PROVIDE A SUITABLE SUB-STRATA FOR NEW FINISHES.

GENERAL NOTES - FLOOR PLAN

8 FIRE EXTINGUISHERS FINAL LOCATIONS SHALL BE VERIFIED WITH LOCAL FIRE AUTHORITY

9 UNIT LAYOUTS SHOWN HALFTONE FOR REFERENCE REFER TO UNIT PLANS FOR LAYOUT.

10 NEW EXTERIOR WINDOWS AND DOORS TO BE

LOCATED IN EXISTING OPENINGS U.N.O. NOTIFY

ARCHITECT IMMEDIATELY IN THE CASE OF A DISCREPANCY.

11 NEW WINDOWS TO BE INSTALLED SUCH THAT BOTTOM

OF THE CLEAR OPENING IS NOT GREATER THAN 44" AFF. U.N.O.

DASHED FOR REFERENCE.

12 FURNITURE AND EQUIPMENT PROVIDED N.I.C. SHOWN

13 ALL NEW WALLS ARE TO EXTEND TO DECK, UNLESS

S

RENOVATION

TMEN.

M

APA

RALSTON

5617 S 77TH ST RALSTON, NE 68127

08.23.2024



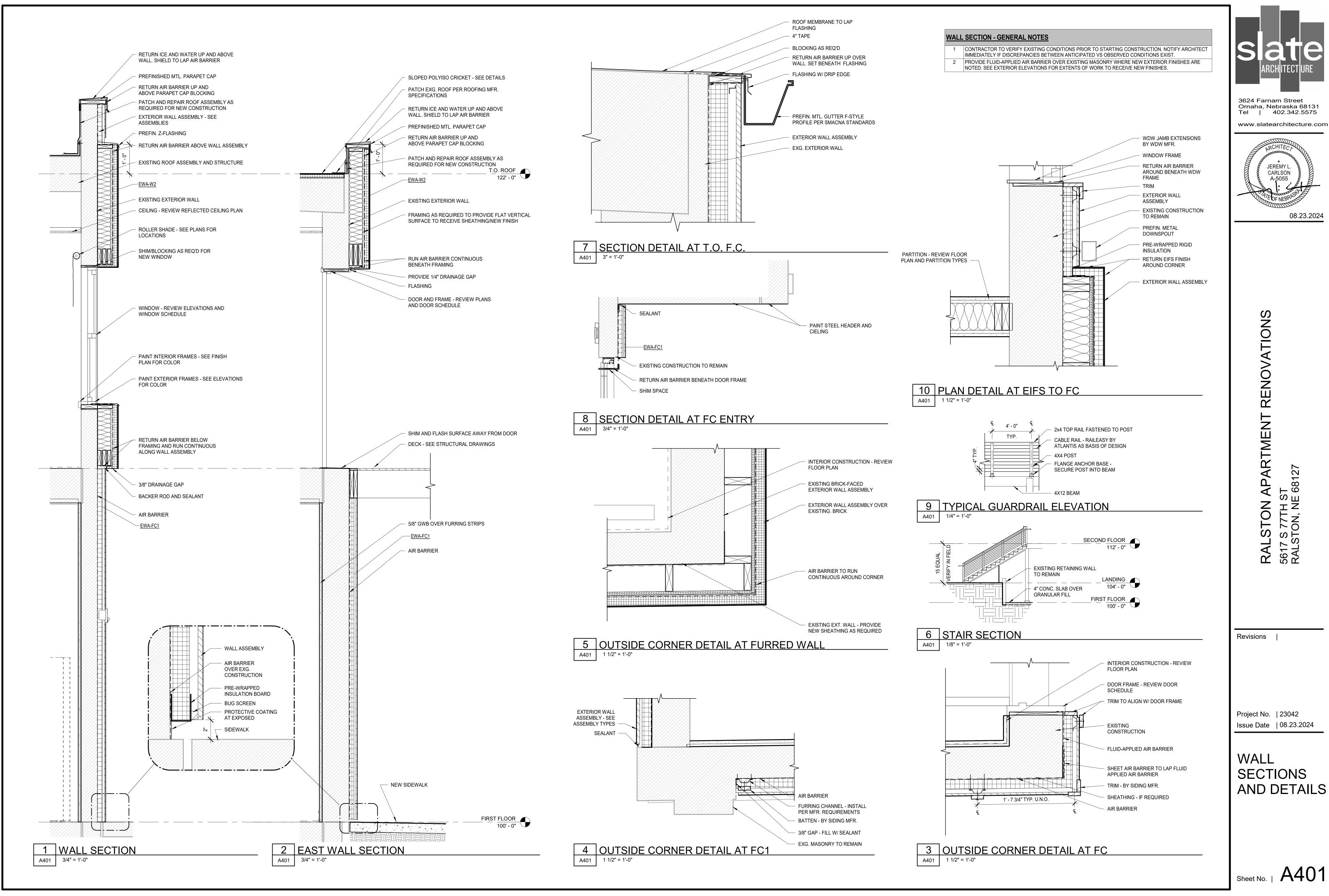
3624 Farnam Street

Omaha, Nebraska 68131

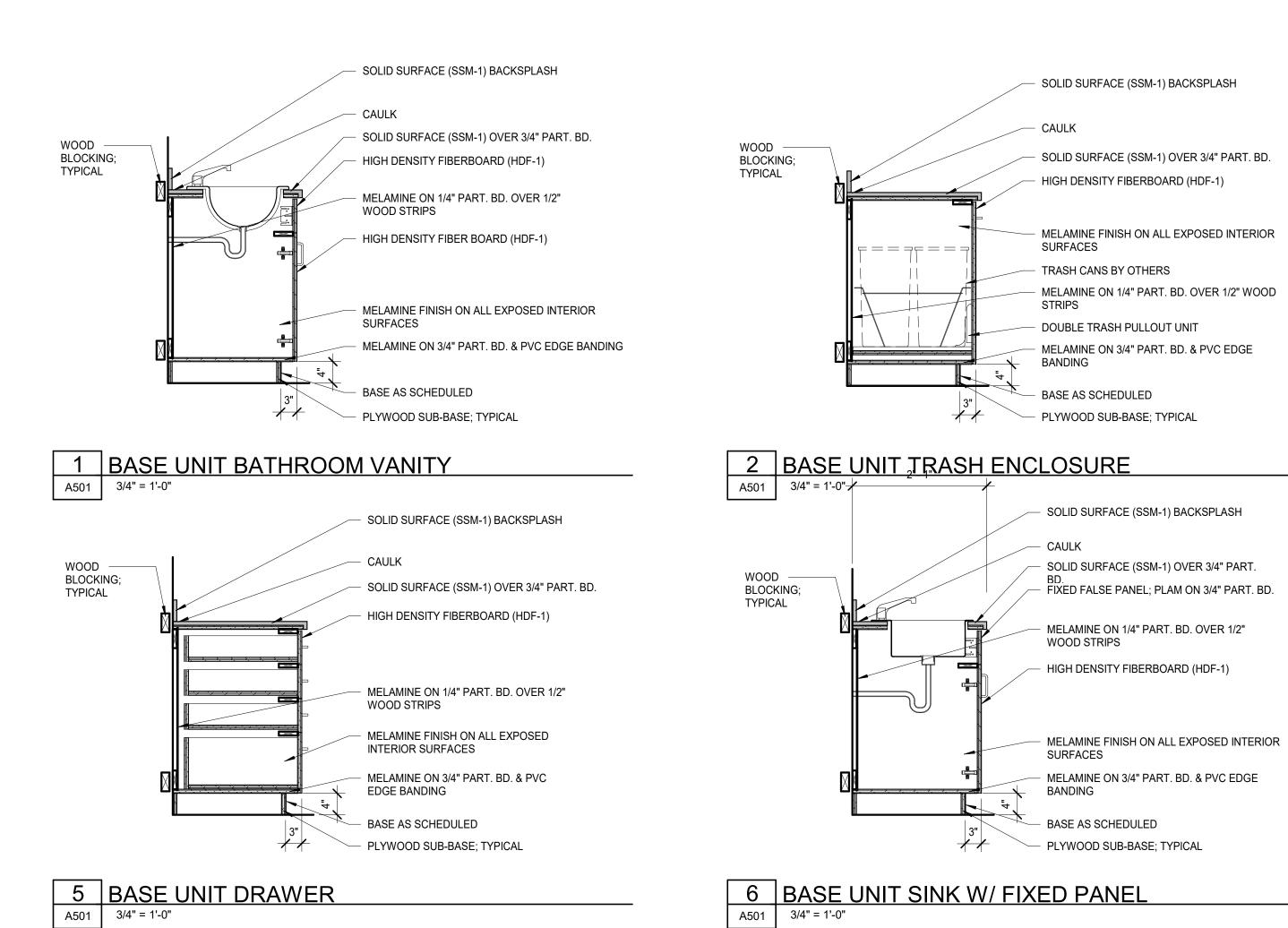
Tel | 402.342.5575

www.slatearchitecture.com

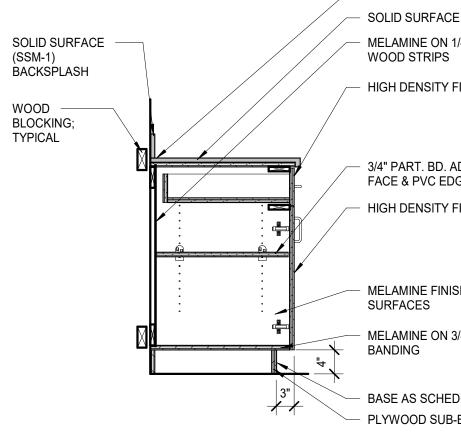
JEREMY L CARLSON A-5055



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MELAMINE ON 1/4" PART. BD. OVER 1/2" WOOD



- CAULK - SOLID SURFACE (SSM-1) OVER 3/4" PART. BD. MELAMINE ON 1/4" PART. BD. OVER 1/2"

HIGH DENSITY FIBERBOARD (HDF-1)

3/4" PART. BD. ADJ. SHELF W/ MELAMINE FACE & PVC EDGE BANDING HIGH DENSITY FIBER (HDF-1)

MELAMINE FINISH ON ALL EXPOSED INTERIOR

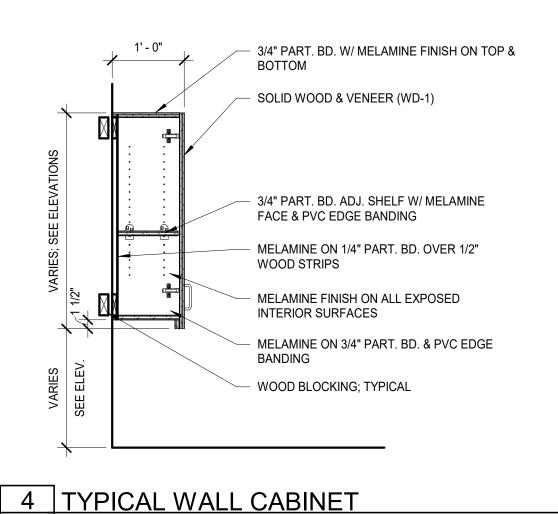
A501

3/4" = 1'-0"

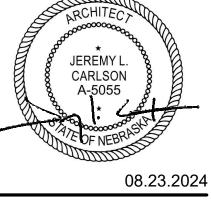
MELAMINE ON 3/4" PART. BD. & PVC EDGE

- BASE AS SCHEDULED PLYWOOD SUB-BASE; TYPICAL

3 BASE UNIT DOOR/DRAWER COMBO A501 3/4" = 1'-0"







TMEN **N** RALSTON APAR 5617 S 77TH ST RALSTON, NE 68127

RENOVATIONS

Revisions

Project No. | 23042 Issue Date | 08.23.2024



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MEMO: Structural Design Development Narrative at 5617 & 5619 South 77th Street in Ralston, Nebraska 68127.

This is in response to your request for a professional engineer's narrative regarding the situation with the residential housing unit project located at 5617-5619 South 77th Street in Ralston, Nebraska 68127. An initial site evaluation was completed on January 11, 2024. The two adjacent, connected two-story brick buildings were built in 1913; the front entry of the combined building structure generally faces the southwest corner of this intersection in downtown Ralston. The building construction consists of wood framing supported by brick foundation (basement) walls. The structural narrative is to evaluate and discuss its structure for any necessary repairs and ongoing structural viability.

Cracks within the Basement Walls:

The west perimeter brick basement wall of this building included a sizeable wall cracking situation that has had significant deterioration due to water intrusion and apparent ongoing water infiltration that needs to be addressed.

It is my opinion that the brick wall basement cracking is able to be repaired by a qualified masonry remediation contractor, and thus, I am able to conclude the building is capable of being viable structurally, provided that the following required repairs are scheduled to be made in a timely manner, which is the typical expectation for all items:

Recommendation:

1. Repair various brick-wall foundation wall cracks via two-part epoxy injection, consult a remediation contractor.

Exterior Brick Wall Cracks:

For the south wall of the south building, it included an interior crack on the exterior, perimeter brick wall wythe that is a significant structural concern at or near the front entry to the building on the south face of the entrance's general location.

Recommendations:

1. At its exterior, provide silicone scalant to close any perceived or relevant cracks in this general locale prior to epoxy. 2. Repair brick-wall cracks via two-part epoxy injection, consult a remediation contractor as previously mentioned.

Dry-Rot Wood Framing & Clay-Tile Block Deterioration:

For the area of the main-level floor on the southwest and northwest corners, as well as a significant area at or near the northeast corner on both levels of the floor system damaged due to water intrusion that also resulted in dry-rot. In addition, some of the floor joists have been affected in these areas that will require sistering of these joists fully and re-building of the northeast floor sheathing as well as the southwest and northwest corner areas near the various entry points into bldgs.

A few various compromised post-to-beam connections have occurred due to the resulting dry-rot issue. Also note that the north wall of the northern building has had significant deterioration of its clay-tile block wall above the main floor level.

Recommendations:

1. Provide sistering & replacement of the various affected areas due to water intrusion and subsequent dry-rot damage.

2. Compromised post-to-beam connections near the northeast corner of the basement require some additional 4x4 posts. 3. The damaged clay-tile block on the north wall would need to be infilled with brick and comparable mortar for this area. 4. Miscellaneous infill may be required to account for various other trades such as mechanical, electrical or architectural.

Exterior Drainage, Stoops, and Rear Decks:

For the drainage issues at the exterior, specifically, the site grading will need to be addressed to provide positive drainage away from the foundation, especially at insufficiently graded areas on the rear (east) as well as along the northern wall of the bldg. The front of the bldg. included several concrete panels that sloped back toward the bldg.; the perimeter grading need to be able to drain away from foundations at this eastern area of the property sufficiently.

And, as a general-rule, the gutter-downspouts located around the bldg. will need to drain water away from the foundation; with all perimeter grade sloped away from the footings at a rate of 1/4-inch per foot for the initial four feet, such that some areas we noticed may be inadequate, especially at the rear of the bldg. and potentially at the adjacent north side yard, consult a landscaping contractor to review grading and sufficient property drainage options.

The rear decks will need to be structurally designed to account for the adequate loading requirements and soil sufficiency. And, the exterior door openings on grade and/or sidewalk level will require fully functioning concrete stoops to be built.

Recommendations for other contributing factors - to alleviate further issues as far as cost for design and implementation:

1. At the exterior, the grade at the perimeter of the buildings must be maintained to route surface water continually

away from the foundation, and it is recommended to use sufficient drainage techniques per a landscaping company. 2. New rear decks, stairs, and landings will need to be designed and detailed for the upper-level access that is required.

3. Exterior door openings require sufficient concrete stoops that are functioning properly, new stoops will be required. 4. Miscellaneous design elements may be needed to account for minor architectural features such as wall-coverings etc.

I appreciate the opportunity to work with you on this specific project in downtown Ralston at 5617 & 5619 South 77th Street. If you have any questions, concerns or comments, feel free to contact me at your earliest convenience.

Respectfully submitted,

Lamont R. Epp, P.E.

LAMONT R.

July 29, 2024

MEMO: Residential/commercial structural plan review-evaluation at 5617 S. 77th St., Ralston, NE 68127.

This letter is in response to a request for a professional engineer's review of the two commercial bays and six residential units planned at 5617 South 77th Street in Ralston, NE. This two-story set of two interconnected buildings were likely both built in circa 1913, and its construction consisted of wood framing on masonry various foundation walls. An on-site structural evaluation occurred on January 11, 2024, with a follow-up on the new plan elements, in conjunction with the architect, on July 26, 2024.

As evaluated on-site, the in-fill floor areas for the center east-west stairwell being abandoned on the north side of the center wall will be infilled with 2x10's at 16" on-center, attached to the brick wall via 5/8" dia. epoxy adhesive anchors (embed 5") at 24" on-center, staggered, on to the 2x10 rim-board. Atop the floor joists will be tongue-and-groove 3/4" thick OSB sheathing within this footprint at both levels of the building structure.

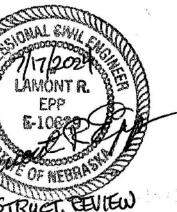
The primary external element to be designed occurred on the east side of the two interconnected brick buildings. The primary deck joists will be pressure-treated 2x12's at 24" on-center with pressure-treated 2x6 decking perpendicular to the deck joists with an 1/8" gap at each deck floor board. The perimeter deck beam will need to be (2)-2x12's, which are attached together at 12" on-center, staggered. The rim board will be (2)-2x12's with 5/8" dia. epoxy adhesive anchors (embed 7") at 24" on-center, staggered.

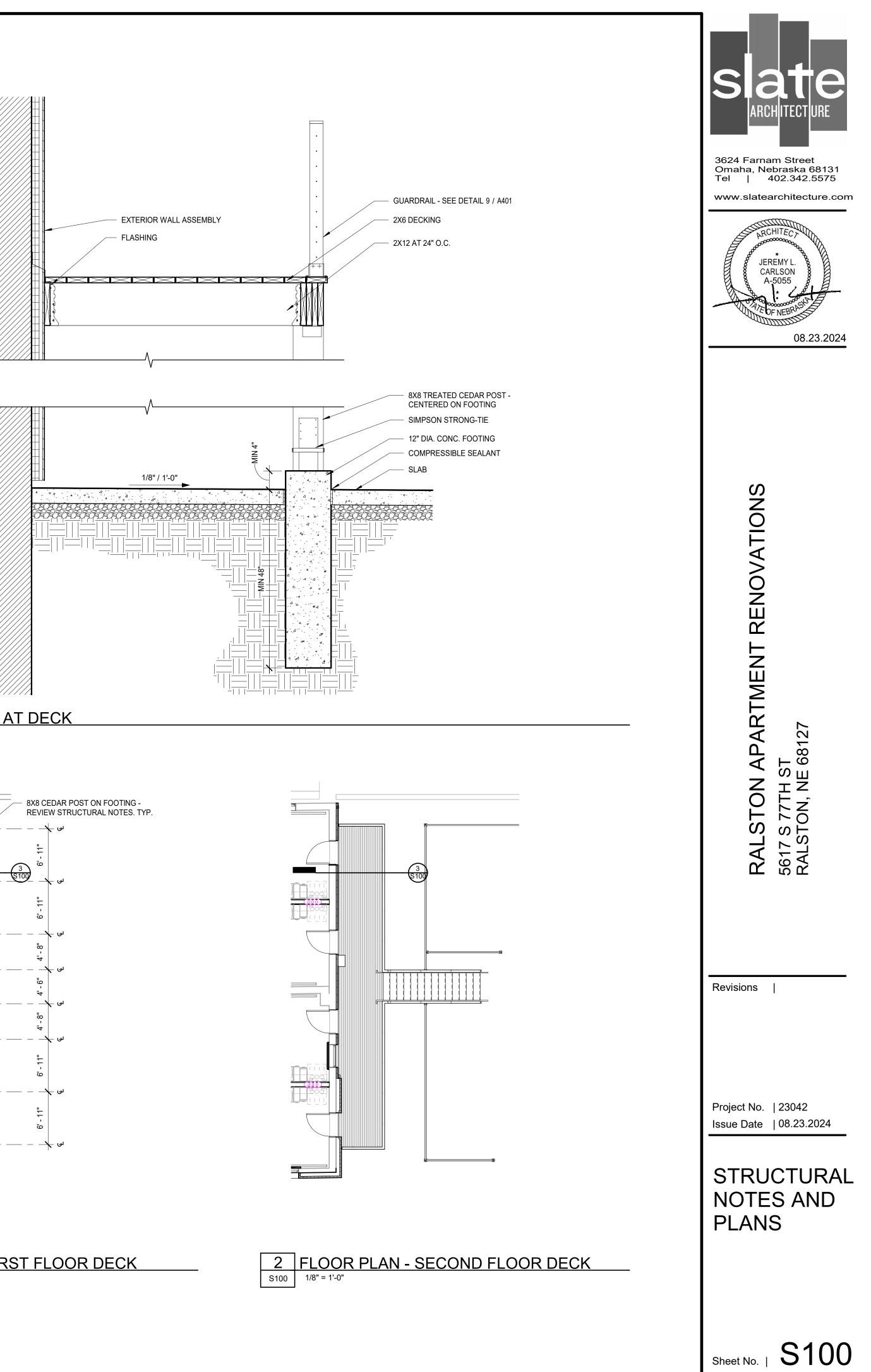
For the rear deck, provide cedar 8x8's as the deck posts at approximately 7'-0" on-center, including an 8x8 cedar post at each side of the deck stairs. The deck posts will be supported by 12" dia. by 48" deep concrete piers, which are extended above grade by approximately 4" with a sono-tube only above grade. A metal-base bracket supplied by Simpson Strong-Tie with a 1/2" dia. anchor bolt at each embedded 12".

I appreciate the opportunity to work with you on evaluating residential/commercial considerations of this building. If you have any comments or questions, please email me at e3engineered@gmail.com.

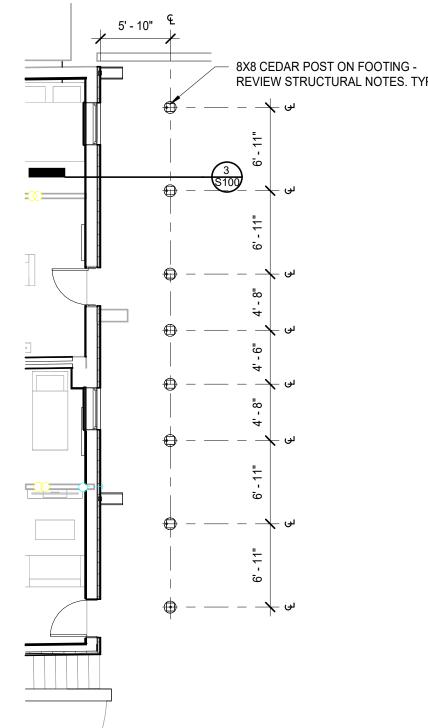
Sincerely,

Lamont R. Epp, P.E.

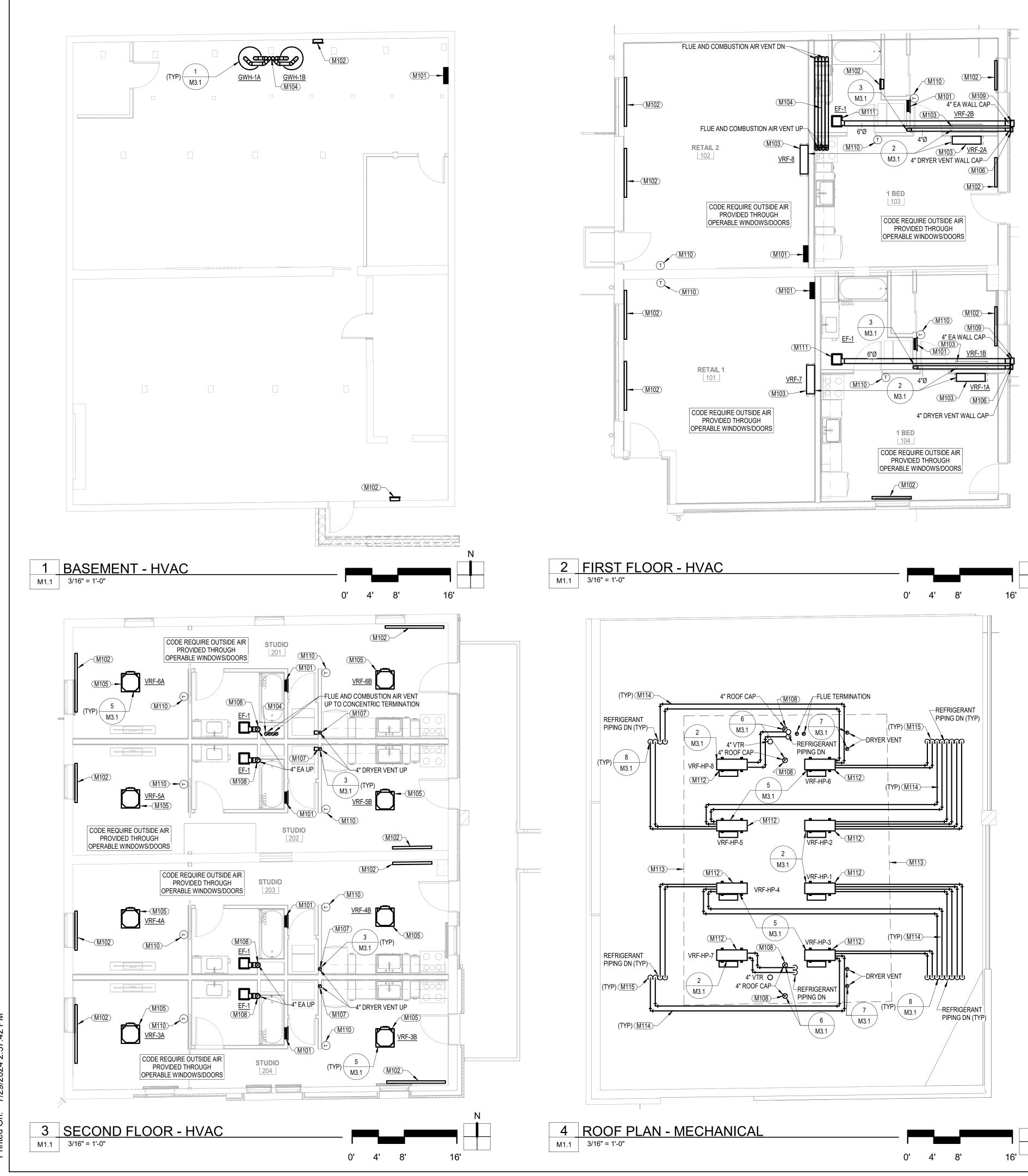








1 FLOOR PLAN - FIRST FLOOR DECK S100 1/8" = 1'-0"



MECHANICAL GENERAL NOTES

- 1. DO NOT ROUTE DUCTWORK ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- 2. ALL ITEMS SHOWN LIGHT OR INDICATED ON PLAN AS (E) ARE EXISTING, AND (R) ARE TO BE RELOCATED. ALL ITEMS SHOWN DARK ARE NEW. NOT ALL MECHANICAL ITEMS ARE SHOWN.
- FIELD OBSERVATIONS. NOT ALL EXISTING MECHANICAL IS INDICATED. CONTACT ARCHITECT/ENGINEER IF EXISTING CONDITIONS SIGNIFICANTLY VARY FROM THOSE SHOWN.
- 4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING DUCTWORK AS NECESSARY TO AVOID CONFLICTS WITH EXISTING STRUCTURE AND WITH ALL TRADES OF NEW WORK.
- 5. PLAN WORK TO MINIMIZE SHUT-DOWNS. COORDINATE ALL REQUIRED SHUT-DOWNS WITH OWNER.
- 6. MAINTAIN MINIMUM 10'-0" CLEARANCE TO EXHAUST FANS FROM ALL FRESH AIR INTAKES. 7. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE AND FILTER ACCESS.
- 8. COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
- 9. UNLESS OTHERWISE NOTED, ROUTE DUCTWORK AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE AND OPEN WEBBING OF JOISTS TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
- 10. PLANS ARE SCHEMATIC IN NATURE, DUCTWORK ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- 11. INSTALL ALL FIRE DAMPERS, FIRE/SMOKE DAMPERS, VOLUME DAMPERS, ETC. ABOVE ACCESSIBLE CEILINGS OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
- 12. FIRE CAULK ALL DUCTWORK PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES. CAULK AROUND ALL DUCTWORK PENETRATIONS THOUGH FULL HEIGHT SOUND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION. ALL PENETRATIONS OF FIRE-RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION.
- 13. CONTRACTOR TO PROVIDE ALL LOW VOLTAGE AND LINE VOLTAGE CONTROL WIRING REQUIRED FOR COMPLETE OPERATION OF ALL MECHANICAL EQUIPMENT.
- 14. FOR GENERAL DUCTWORK FITTINGS, SEE DETAIL 1 ON SHEET M3.1.

15. SEE ELECTRICAL DRAWINGS DEVICE ALIGNMENT DETAIL FOR ALL SENSOR AND/OR CONTROL DEVICE INSTALLATION HEIGHTS AND SPACING NOTES UNLESS OTHERWISE NOTED. IF DEVICE ALIGNMENT DETAIL NOT AVAILABLE, MOUNT AT PREFERRED MOUNTING HEIGHT WHERE APPLICABLE, SEE SPECIFICATIONS, OR CONFIRM WITH ENGINEER PRIOR TO INSTALLATION.

<u>KEYNOTES</u>

M115

- M101 DO NOT ROUTE DUCTWORK OVER ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES. M102 ELECTRIC HEAT BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. MOUNT VRF UNIT AS HIGH AS POSSIBLE ON WALL. COORDINATE EXACT M103 LOCATION WITH ARCHITECT. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. PROVIDE GAS WATER HEATER FLUE AND COMBUSTION AIR VENT UP FROM M104 BASEMENT TO CONCENTRIC ROOF TERMINATION PER MANUFACTURER'S RECOMMENDATIONS AND NFPA 54. SEAL ROOF PENETRATION WATER TIGHT. CEILING MOUNTED VRF SYMMETRICALLY AND EQUALLY SPACED WITH M105 LIGHTS. COORDINATE EXACT LOCATION WITH ADJACENT FINISHES AND ARCHITECT. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES. ROUTE DRYER VENT TO EXTERIOR WALL CAP. COORDINATE EXACT M106 LOCATION, CAP STYPE AND FINISH WITH ARCHITECT. SEAL WALL PENETRATION WATER TIGHT. ROUTE DRYER VENT UP THROUGH ROOF TO EXTERIOR ROOF TERMINATION. M107 COORDINATE EXACT LOCATION WITH STRUCTURE, GENERAL CONTRACTOR. SEAL ROOF PENETRATION WATER TIGHT. M108 EXHAUST FAN IN CEILING. COORDINATE EXACT LOCATION WITH STRUCTURE AND LIGHTS. ROUTE EA DUCT UP THROUGH ROOF TO EXTERIOR ROOF TERMINATION. COORDINATE EXACT LOCATION WITH STRUCTURE, GENERAL CONTRACTOR. SEAL ROOF PENETRATION WATER TIGHT. ROUTE EA DUCT VENT TO EXTERIOR WALL CAP. COORDINATE EXACT M109 LOCATION WITH GENERAL CONTRACTOR AND ARCHITECT. SEAL WALL PENETRATION WATER TIGHT. MAINTAIN 3'-0" CLEARANCE TO WINDOW AND DOOR OPENING. INSTALL NEW VRF ROOM THERMOSTAT AND ALL REQUIRED CONTROL WIRING M110 PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE SENSOR LOCATION WITH ARCHITECT AND ELECTRICAL CONTRACTOR. EXHAUST FAN IN CEILING. COORDINATE EXACT LOCATION WITH STRUCTURE M111 AND LIGHTS. ROUTE 6" EA FROM FAN TO EXTERIOR TERMINATION. MAINTAIN 3'-0" CLEARANCE TO WINDOW AND DOOR OPENING. M112 LOCATE NEW VRF-HP UNIT AT APPROXIMATE LOCATION INDICATED. COORDINATE EXACT LOCAITON WITH GENERAL CONTRACTOR. MAINTAIN
- MANUFACTURER'S RECOMMENDED CLEARANCES. MAINTAIN 10'-0" CLEARANCE FROM ROOF EDGE TO ALL MECHANICAL M113 EQUIPMENT. M114 REFRIGERANT PIPING ROUTED ON ROOF. RACK REFRIGERANT PIPING IN A NEAT AND ORDERLY MANNER ON ROOF. ROUTE REFRIGERANT PIPING ON
 - TREAT WOOD SLEEPERS OR PIPE STANDS COMPATIBLE WITH ROOF. PROVIDE REFRIGERANT PIPING HOOD. ROUTE REFRIGERANT PIPING DOWN THROUGH ROOF. COORDINATE PIPING HOOD WITH STRUCTURE.

3. EXISTING MECHANICAL WORK IS BASED ON ORIGINAL DRAWINGS AND APPROXIMATIONS FROM

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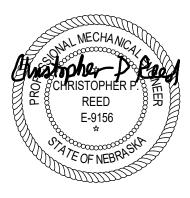
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do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance,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

to verification of clearance for all trades.





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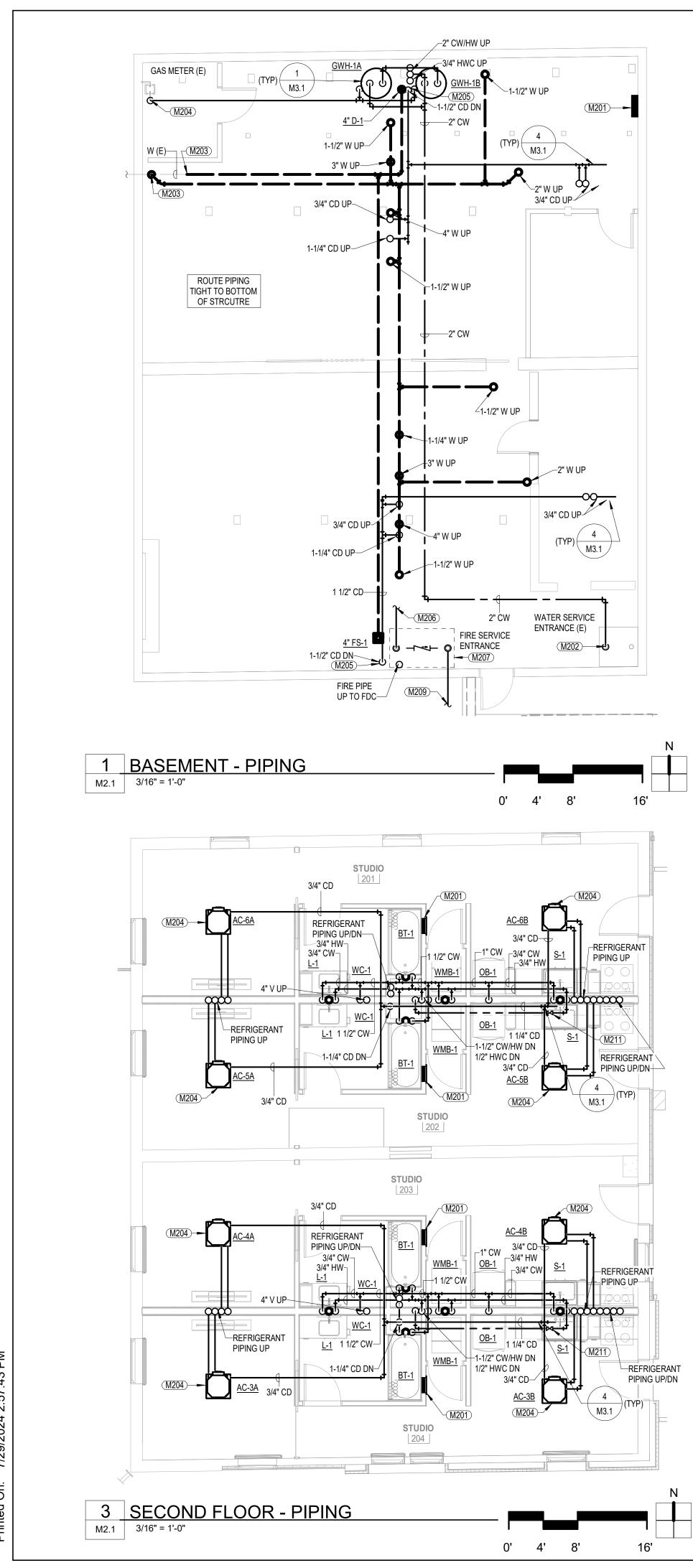
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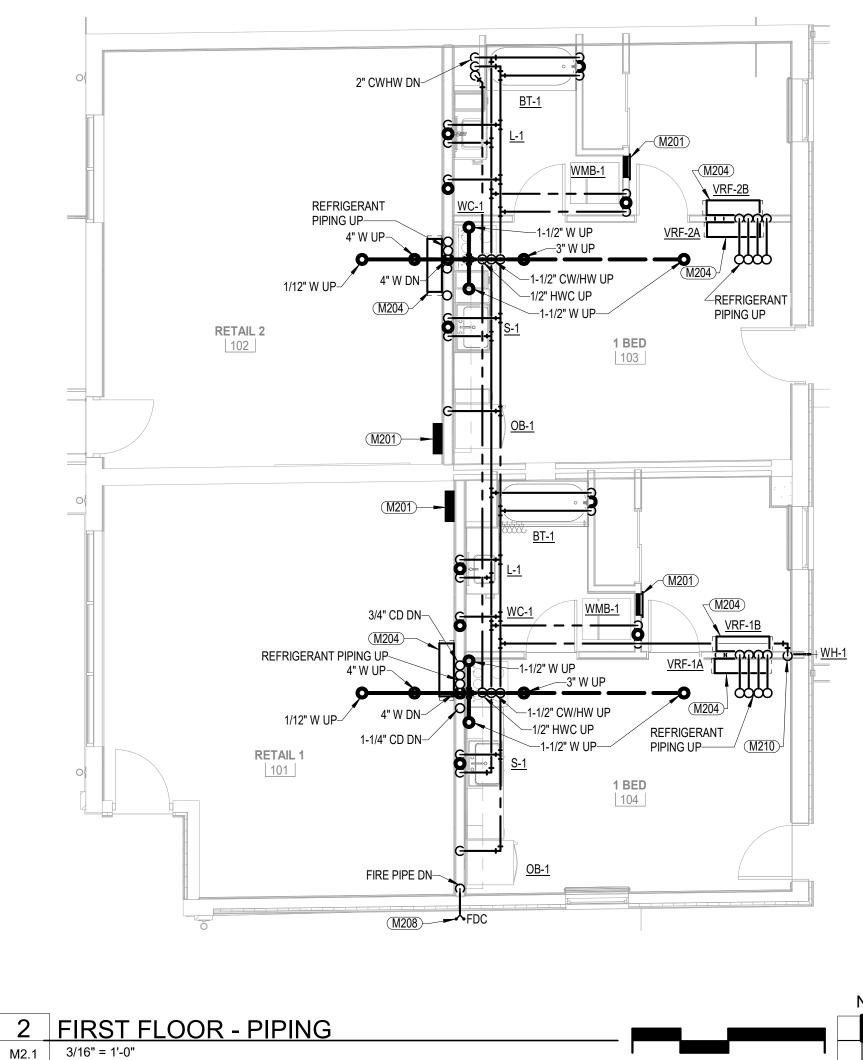
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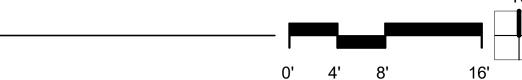
Project No. | 23042 Issue Date | 07.29.24



Sheet No. | M1.1







PIPING GENERAL NOTES

- 1. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- 2. ALL ITEMS SHOWN LIGHT OR INDICATED ON PLAN AS (E) ARE EXISTING, AND (R) ARE TO BE RELOCATED. ALL ITEMS SHOWN DARK ARE NEW. NOT ALL MECHANICAL ITEMS ARE SHOWN.
- 3. EXISTING MECHANICAL WORK IS BASED ON ORIGINAL DRAWINGS AND APPROXIMATIONS FROM FIELD OBSERVATIONS. NOT ALL EXISTING MECHANICAL IS INDICATED. CONTACT ARCHITECT/ENGINEER IF EXISTING CONDITIONS SIGNIFICANTLY VARY FROM THOSE SHOWN.
- 4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING DUCTWORK AS NECESSARY TO AVOID M204 CONFLICTS WITH EXISTING STRUCTURE AND WITH ALL TRADES OF NEW WORK.
- 5. PLAN WORK TO MINIMIZE SHUT-DOWNS. COORDINATE ALL REQUIRED SHUT-DOWNS WITH OWNER.
- 6. MAINTAIN MINIMUM 10'-0" CLEARANCE TO WASTE VENTS F 7. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AR
- ALLOW PROPER OPERATION AND FOR EASY MAINTENANC 8. COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK
- 9. UNLESS OTHERWISE NOTED, ROUTE PIPING AS HIGH AS I OPEN WEBBING OF JOISTS TO AVOID CONFLICTS. COOR STRUCTURE, LIGHTS, DUCTWORK, AND ALL OTHER TRAD TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMP COST TO OWNER.
- 10. PLANS ARE SCHEMATIC IN NATURE. PIPE ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- 11. INSTALL ALL VALVES ABOVE ACCESSIBLE CEILINGS OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
- 12. DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS UNLESS OTHERWISE NOTED. PIPING ROUTED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF INSULATION.
- 13. FIRE CAULK ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES. CAULK AROUND ALL PIPE PENETRATIONS THOUGH FULL HEIGHT SOUND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION. ALL PENETRATIONS OF FIRE-RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION.
- 14. ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE. NOT ALL CLEANOUTS SHOWN. PROVIDE CLEANOUTS AS REQUIRED PER AUTHORITY HAVING JURISDICTION. COORDINATE CLEANOUT LOCATIONS WITH GENERAL CONTRACTOR.
- 15. SEE WASTE AND VENT RISER DIAGRAMS ON SHEET M3.2 FOR COMPLETE PLUMBING SIZES AND CONFIGURATION.
- 16. SEE PLUMBING FIXTURE SCHEDULE SHEET M4.1 FOR PLUMBING FIXTURE CONNECTION REQUIREMENTS.

FIRE SPRINKLER GENERAL NOTES

- 1. ENTIRE BUILDING SHALL BE PROTECTED BY FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION. FIRE SPRINKLER CONTRACTOR SHALL VERIFY AVAILABLE PRESSURE AND FLOW AND SIZE PIPING TO MEET THE REQUIREMENTS OF NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
- 2. HYDRAULIC CALCULATIONS AND SPRINKLER PIPING LAYOUT SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. A SECOND SET OF SHOP DRAWINGS SHALL BE SUBMITTED AFTER THE STATE FIRE MARSHAL HAS REVIEWED DESIGN.
- 3. PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT THE BUILDING, COMPLETE IN ALL ASPECTS AND READY FOR OPERATION INCLUDING ALL TEST AND DRAIN LINES, PRESSURE GAUGES, HANGERS AND SUPPORTS, SIGNS, AND OTHER STANDARD APPURTENANCES. WIRING SHALL BE PROVIDED UNDER THE ELECTRICAL DIVISION.
- 4. PROVIDE FIRE SERVICE ENTRANCE WITH DOUBLE CHECK BACKFLOW PREVENTER, ISOLATION VALVES, CHECK VALVES, FLOW SWITCH, ETC. AS REQUIRED BY NFPA 13, AUTHORITY HAVING JURISDICTION, AND ALL LOCAL CODES.
- 5. PIPING MATERIAL AND SPRINKLER HEADS SHALL MEET THE REQUIREMENTS OF NFPA 13. FINAL PIPE SIZING AND HEAD LAYOUT BY FIRE SPRINKLER CONTRACTOR.
- 6. MINIMIZE EXPOSED PIPING IN AREAS WITHOUT CEILINGS. IN SPACES WITHOUT CEILINGS, SPRINKLER HEADS AND PIPING SHALL BE LOCATED AS HIGH AS POSSIBLE. ROUTE FIRE SPRINKLER MAINS ALONG STRUCTURE TO MINIMIZE VISIBILITY. PAINT EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. DO NOT PAINT HEADS.
- 7. NEW FIRE SPRINKLER HEADS IN ALL AREAS WITH CEILINGS SHALL BE CONCEALED TYPE WITH STANDARD COLOR COVER PLATES SELECTED BY ARCHITECT FLUSH TO CEILING. FIRE SPRINKLER HEADS SHALL BE CENTERED IN TILE WHERE INSTALLED IN LAY-IN TILE CEILINGS. COORDINATE WITH ELECTRICAL AND MECHANICAL CONTRACTOR.
- 8. DO NOT INSTALL FIRE SPRINKLER PIPING OR FIRE SPRINKLER HEADS ABOVE ELECTRICAL PANELS OR CODE REQUIRED CLEARANCE SPACES. MINIMIZE PIPING ROUTED THROUGH ELECTRICAL AND IT ROOMS. PROVIDE PIPE GUARDS ON ALL HEADS LOCATED IN THESE SPACES.
- 9. COORDINATE ALL WALL AND FLOOR PENETRATIONS WITH GENERAL CONTRACTOR. SEAL PENETRATIONS OF EXTERIOR ENVELOPE WATERTIGHT. FIRE CAULK ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES. CAULK AROUND ALL PIPE PENETRATIONS THOUGH FULL HEIGHT SOUND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION. ALL PENETRATIONS OF FIRE-RESISTANT CONSTRUCTION SHALL BE SEALED WITH A LISTED FIRESTOPPING ASSEMBLY BY THE CONTRACTOR RESPONSIBLE FOR THE PENETRATION.
- 10. COORDINATE FIRE SPRINKLER PIPE ROUTING AND FIRE SPRINKLER HEAD LOCATIONS WITH DIFFUSERS, REGISTERS, AND GRILLES, FIRE ALARM DETECTORS, LIGHTS AND CEILING PLANS.
- 11. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING WITH ALL OTHER TRADES. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION AND AVOID CONFLICTS. IF CONFLICTS DO OCCUR SUCH THAT LIGHTS, DUCTWORK, OR CEILING SYSTEMS CANNOT BE INSTALLED DUE TO SPRINKLER PIPING INTERFERENCE, THE PIPING SHALL BE RELOCATED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- 12. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS.
- 13. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE.

M202 M203

FROM ALL FRESH AIR INTAKES.	M205
OUND ALL MECHANICAL EQUIPMENT TO NO FILTER ACCESS.	M206
	M207

TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.

POSSIBLE. UTILIZE JOIST SPACE AND	M20
DINATE EXACT ROUTING WITH	
DES. PROVIDE NECESSARY OFFSETS,	M20
PLETE INSTALLATION AT NO ADDITIONAL	M21

KEYNOTES

M201

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

CONNECT NEW 2" CW PIPE TO EXISTING CW PIPING AT LOCATION INDICATED. FIELD VERIFY EXACT SIZE, LOCATION AND ELEVATION OF EXISTING PIPING PRIOR TO CONNECTION. TRANSITION, EXTEND AND OFFSET NEW PIPING AS REQUIRED TO MAKE CONNECTION AND AVOID CONFLICTS.

CONNECT NEW 4" W PIPE TO EXISTING W PIPING AT LOCATION INDICATED. FIELD VERIFY EXACT SIZE, LOCATION AND ELEVATION OF EXISTING PIPING PRIOR TO CONNECTION. TRANSITION, EXTEND AND OFFSET NEW PIPING AS REQUIRED TO MAKE CONNECTION AND AVOID CONFLICTS.

PROVIDE COMPLETE REFRIGERANT PIPING FOR VRF SYSTEM. ROUTING IS INDICATED SCHEMATICALLY. ALL PIPING SHALL BE SIZED, INSTALLED AND INSULATED PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. PIPE ROUTING SHALL BE COORDINATED WITH EXISTING CONDITIONS. ALL PIPING SHALL BE CONCEALED ABOVE CEILINGS OF IN WALLS.

ROUTE CONDENSATE PIPING DOWN TIGHT TO WALL TO INDIRECT DISCHARGE AND FLOOR DRAIN/FLOOR SINK.

FIRE SPRINKLER PIPE SIZING AND ROUTING BY FIRE SPRINKLER CONTRACTOR. COORDINATE PIPING WITH ALL OTHER TRADES. 6" FIRE WATER MAIN FOR SPRINKLER SERVICE. MAINTAIN CLEAR SPACE FOR

FIRE SERVICE ENTRANCE. PROVIDE BACKFLOW PREVENTER AND ALL VALVES AND COMPONENTS AS REQUIRED BY NFPA 13 AND AUTHORITY HAVING JURISDICTION.

M208 VERFIY LOCATION OF FIRE DEPARTMENT CONNECITON WITH AUTHORITY HAVING JURISDICTION. SEE CIVIL FOR CONTINUATION.

ROUTE 3/4" CW DN IN WALL TO WH-1. ROUTE PIPIG ON INTERIOR SIDE OF INSULATION. PROVIDE OWNER WITH OPEATING KEY. M211 AUTOMATICK BALANCING VALVE SET AT 0.33 GPM.



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FLOOR PLANS - PIPING

Sheet No. | M2.

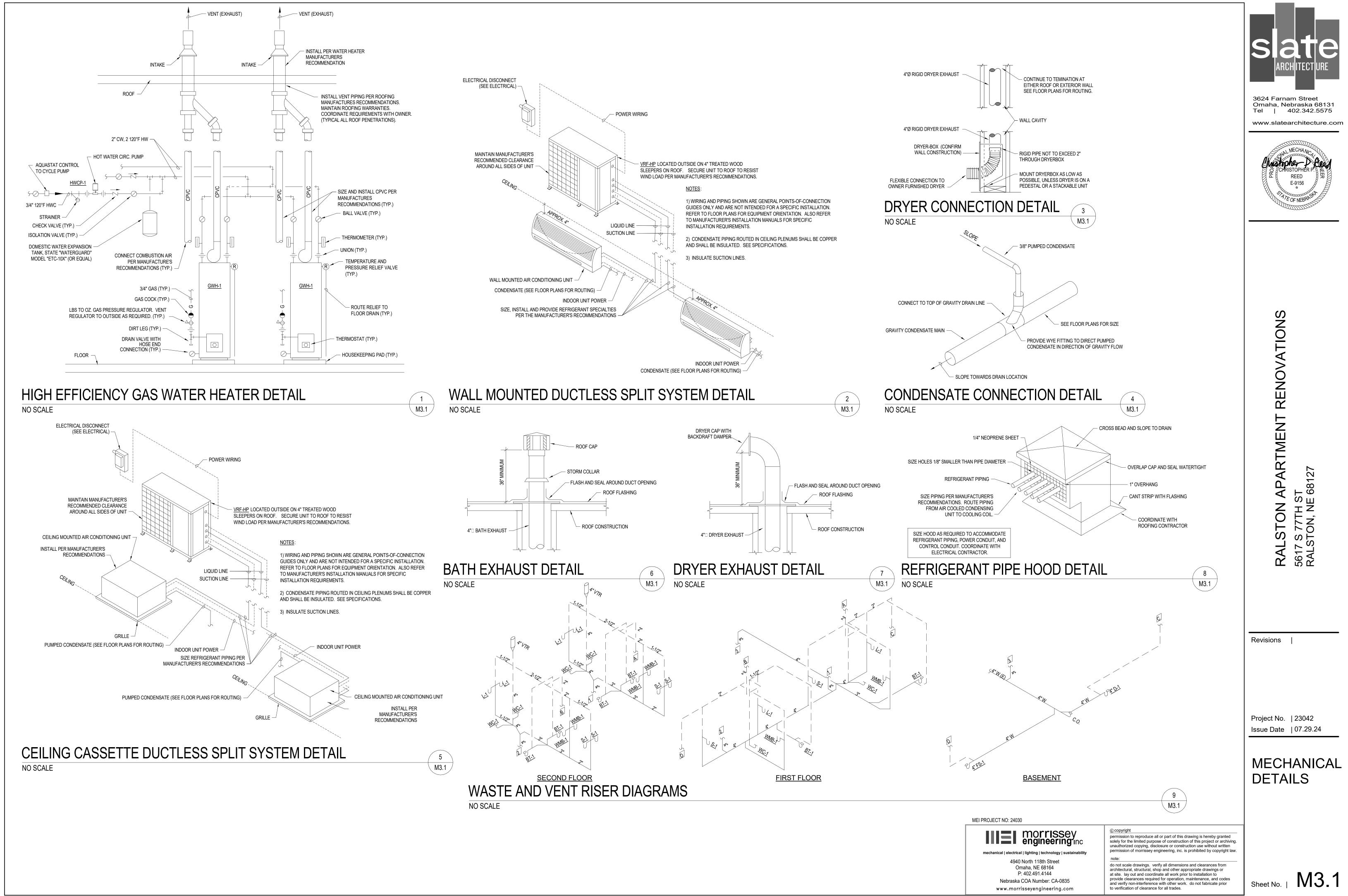
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do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance,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

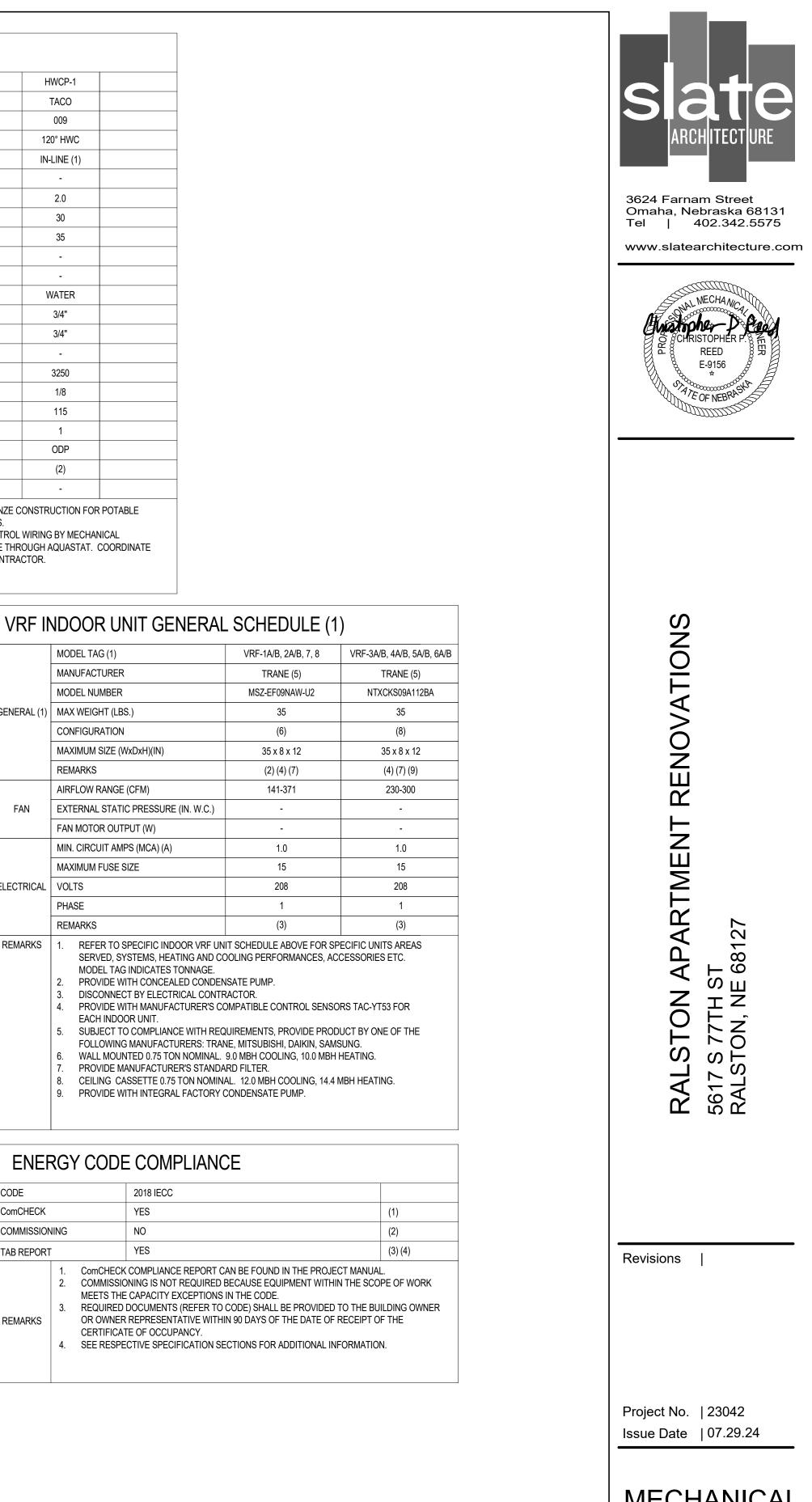
to verification of clearance for all trades.



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AG	FIXTURE (2)	FAUCET/ FLUSHVALVE/ ACCESSORY (2		CONNECTIONS	SYMBOL	DESCRIPT		AL SYME	BOLS	DESCRIPTION	PUM	IP SCHEDU	JLE
AG	HATORE (2)	TAUGET/TEUSTIVAEVE/ACCESSORT(2	DESCRIPTION: ELONGATED BOWL, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE WATER CLOSET.	CW HW WASTE VENT	P	PIPE TEE / PIPE ELBOW						MANUFACTURER	
			ADA COMPLIANT: YES COLOR: WHITE TANK: CLOSED COUPLED. 1.6 GALLONS PER FLUSH	1/2" - 3" 2" REMARKS:	——————————————————————————————————————	ELBOW DN / ELBOW UP SOLATION VALVE (BALL OR BUTTERFLY) BALANCING VALVE			ER WITH BLOWDOWN VALVE (ARROW INDICATES F ATIC CONTROL VALVE TWO-		GENERAL		
			SEAT: WHITE, ELONGATED, CLOSED FRONT WITH COVER, SEAT WITH CHECK HINGE. RIM HEIGHT: 17.5"-18"			SATE VALVE SLOBE VALVE PRESSURE/TEMPERATURE TEST PORT			RE REGULATING VALVE (PR RE GAUGE METER	XV)		SERVES TYPE	
<u>-1</u>			FIXTURE SHALL BE MaP TESTED FOR A MINIMUM OF 1,000 GRAMS PER FLUSH.			DOMESTIC COLD WATER (CW)	PLU					ACCESSORIES	
					— D	DOMESTIC HOT WATER (HW) (NUMBER INDICATES TE DOMESTIC HOT WATER CIRCULATION (HWC) (NUMBE	,	0 <u>2" D-1</u> FLOOR I	DRAIN - SIZE TYPE	r		FLOW (GPM)	
					S	-		HOSE BI	BB YDRANT (NON-FREEZE)	E		TOTAL HEAD (FEE SHUT-OFF HEAD (I	
	MODEL: PROFLO PF1403T ADA				ST S	STORM PIPING (BELOW GRADE) STORM PIPING (ABOVE GRADE) DVERFLOW STORM PIPING (BELOW GRADE)			IROUGH ROOF IRT ELEVATION NE			NPSH AVAILABLE	`
			DESCRIPTION: UNDERCOUNTER LAVATORY WITH MANUAL FAUCET. ADA COMPLIANT: YES.	CW HW WASTE VENT 1/2" 1/2" 1-1/4" 1-1/4"	OFO A₩A	OVERFLOW STORM PIPING (ABOVE GRADE)		WC WATER UR URINAL	CLOSET (SEE SPECIFICATIO (SEE SPECIFICATIONS FOR RY (SEE SPECIFICATIONS F	TYPE)	PUMP	MIN. EFFICIENCY	
			COLOR: COORDINATE WITH ARCHITECT. FIXTURE DIMENSIONS: COORDINATE WITH ARCHITECT. CONSTRUCTION: FAUCET INLET SPACING TO MATCH LAVATORY OPENINGS.	REMARKS:	AV A	ACID WASTE PIPING (ABOVE GRADE) ACID VENT PIPING COMPRESSED AIR PIPING		S SINK (SE	EE SPECIFICATIONS FOR TY IC WATER COOLER (SEE SP	PE)		FLUID SUCTION SIZE (IN)	√)
			FAUCET VALVE OPERATION: MANUAL. FAUCET FINISH: CHROME.		—— SAN —— S	VATURAL GAS PIPING SITE SANITARY PIPING SITE STORM PIPING		MS MOP SIN DI DUCTILE CI CAST IR		IR TYPE)		DISCHARGE SIZE	(IN)
			HANDLE: SINGLE-LEVER TOGGLE. SPOUT: INTEGRAL WITH BODY, VANDAL RESISTANT AERATOR. 1/2-GPM FLOW.			DITE WATER PIPING	Н		NYL CHLORIDE			MAX. IMPELLER DI)IA. (
			DRAIN: POP UP DRAIN ADA INSULATION KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FROM FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF STICKING FASTENING			SIDEWALL SUPPLY REGISTER OR GRILLE		S SENSOF ① THERMO ① HUMIDIS	DSTAT			RPM HP	
	MODEL: PROFLO PF1812U	MODEL: KOHLER K-15 "CORALAIS" SEE DESCRIPTION FOR OPTIONS	SYSTEM.			SUPPLY AIR REGISTER - NECK SIZE (IN), TAG - AIRFLOW (CFM)	LE <u>NECK SIZE (IN), TAG</u> AIRFLOW (CFM)	M − − MOTORI	ZED CONTROL DAMPER WIT	TH ACTUATOR		VOLTS	-
			DESCRIPTION: GELCOAT FIBERGLASS TUB/SHOWER ENCLOSURE . TUB/SHOWER MUST MEET THE	CW HW WASTE VENT		SUPPLY AIR, OUTSIDE AIR OR MIXED AIR DUCT END C	DR RISER UP / RISER DN		E DAMPER MPER WITH SLEEVE AND AC DAMPER WITH SLEEVE AND		MOTOR	PHASE	
		1 210	REQUIREMENTS OF ADA. ADA COMPLIANT: YES	1/2" 1/2" 1-1/2" 1-1/2"		RETURN AIR, EXHAUST AIR OR RELIEF AIR DUCT END	OR RISER UP / RISER DN	F.S.D. FIRE/SM S.A. SUPPLY	OKE DAMPER WITH SLEEVE			TYPE CONTROL DEVICE	F
	1	Total State	GRAB BARS AND SEAT: PROVIDE BACKING FOR INSTALLATION OF GRAB BARS AND SEAT. COLOR: WHITE FIXTURE ENCLOSURE: GELCOAT FIBERGLASS, SMOOTH WALL FINISH WITH SLIP RESISTANT TEXTURED	REMARKS:		RECTANGULAR DUCTWORK (WIDTH/DEPTH)(IN) (FIRS	,	R.A. RETURN E.A. EXHAUS RLF.A. RELIEF	TAIR			REMARKS	-
	1/ e		BOTTOM. FIXTURE DIMENSIONS: 60" X 32-1/4" X 77-1/2"	COORDINATE ADA REQUIREMENTS WITH ARCHITECTURAL PLANS.		ROUND DUCTWORK (DIAMETER)(IN) (SPIRAL DUCT IN	EXPOSED AREAS)	O.A. OUTSIDI M.A. MIXED A	EAIR		REMARKS	1. LEAD FREE	
		S.	INSTALLATION: FLUSH MOUNTED TO THE FLOOR. FIXTURE ENCLOSURE DRAIN: INTEGRAL CORROSION-RESISTANT METAL WITH REMOVABLE STRAINER.	PROVIDE CONTINUOUS WALL BACKING FOR FUTURE GRAB BAR			FIRE PR					2. TIMECLOCK	K AN
		\bigcirc	SHOWER CURTAIN ROD: FACTORY INSTALLED SHOWER ROD SHOWER VALVE: PRESSURE BALANCED VALVE WITH SCREWDRIVER STOPS. SHOWER HANDLE: SINGLE-LEVER.	INSTALLATION IN ALL TYPE A OR B APARTMENTS. (TYP. ALL TUBS	— SP — S →→→ S	Fire Sprinkler Piping Standpipe Piping Sprinkler Branch and Heads			DICATOR VALVE CHECK VALVE			CONTRACTO WITH ELECT	
	MODEL: AQUATIC 2603SMTE	MODEL: DELTA T13H152	SHOWER HANDLE: SINGLE-LEVER. SHOWER HEAD: ADA COMPLIANT SLIDE BAR AND HAND SHOWER . 1.75 GALLONS PER MINUTE MAXIMUM	AND SHOWERS.)		FIRE HOSE CABINET		0,S&Y V					
			DESCRIPTION: COUNTER MOUNTED 18 GA STAINLESS STEEL SINK W/ GOOSENECK SWING SPOUT.	CW HW WASTE VENT	۲ ۸/۸								 כ
			ADA COMPLIANT: YES. FIXTURE DIMENSIONS: SINGLE BOWL 22" X 19" X 6-1/2"(ADA)	1/2" 1/2" 1-1/2" 1-1/2" REMARKS:	VVAI	TER HEATER SCH	, , , , , , , , , , , , , , , , , , ,			R-HEATING INVERTE			
	0000		CONSTRUCTION: FAUCET INLET SPACING TO MATCH SINK OPENINGS. HANDLE: DOUBLE POLISHED CHROME ADA LEVER HANDLES.			PLAN TAG MANUFACTURER	GWH-1A, B			PLAN TAG MANUFACTURER		P-1, 2, 3, 4, 5, 6, 7, 8	
			SPOUT: GOOSENECK SWING WITH 1-1/2 GPM FLOW AERATOR. DRAIN: 1-1/2" GRID STRAINER WITH 3-1/2" REMOVABLE STAINLESS STEEL CRUMB CUP. ADA INSULATION		GENERAL	MODEL NUMBER	A.O. SMITH (6) BTH-199			MANUFACTORER MODEL NUMBER		JBISHI/TRANE (10)	
			KIT: PROVIDE SUPPLY AND DRAIN SOFT MOLDED INSULATION KITS FROM FIXTURE TO WALL. COVERINGS TO BE CUSHIONED JACKET PLASTIC COVERING WITH SELF STICKING FASTENING SYSTEM.			SERVES	SEE PLANS		GENERAL	SERVES		SEE PLANS	
			FOOD WASTE DISPOSER: IN-SINK ERATOR, BADGER 5XP, 115VAC, 3/4 HP DISPOSER. INCLUDE MOTOR WITH OVERLOAD PROTECTION AND RESET BUTTON, WALL SWITCH, CORROSION RESISTANT CHAMBER			RECOVERY (GPH @ 70°F RISE)	336		GENERAL	CONFIGURATION		(9)	
	MODEL: ELKAY LRAD-2219	MODEL: AM. STD COLONY SOFT 4175.100.F15	WITH JAM RESISTANT STAINLESS STEEL GRINDER, SPLASH GUARD, AND COMBINATION COVER/STOPPER.				(1)			MAXIMUM SIZE (HxWxD)(IN) MAXIMUM WEIGHT (LBS.)	3	38" x 17" x 42" 300	
			DESCRIPTION: FLOOR DRAIN WITH CAST IRON BODY, FLASHING COLLAR, 6" ROUND ADJUSTABLE NICKEL BRONZE GRATE.	CW HW WASTE VENT	TANK	STORAGE CAPACITY (GAL.) DIMENSIONS (LXWXH)(IN.)	28"Ø x 76"			REMARKS	(3	3) (4) (6) (8) (9)	
				2" 1-1/2" 3" 1-1/2		REMARKS	(2)			VOLTS		208	
				4" 2"		FUEL	NATURAL GAS			PHASE		1	
				REMARKS: SEE FLOOR PLANS FOR WASTE		INPUT (MBH) EFFICIENCY	97%		ELECTRICAL	MAXIMUM UNIT KW MAXIMUM OCP (AMPS)		- 40	
				AND VENT SIZE REQUIREMENTS.	GAS FIRED	VENT CONNECTION	(3)			MINIMUM CIRCUIT AMPACITY (MCA)		26.9	
						BURNER MOTOR HP	-			REMARKS		(7)	
	MODEL: J.R. SMITH #2005					BURNER MOTOR VOLTS/PHASE	(1)			AMBIENT AIR TEMPERATURE (F)		95	
			DESCRIPTION: FLOOR SINK WITH SEDIMENT BUCKET, ACID RESISTANT COATED CAST IRON BODY, FLASHING COLLAR, AND REMOVABLE 8-1/2" SQUARE NICKEL BRONZE TOP. PROVIDE THE FOLLOWING	CW HW WASTE VENT		REMARKS (1) CONCEALED COMBUSTION			COOLING (1)	MINIMUM NET EER (ARI) NOMINAL CAPACITY (TONS)		13.5 1.5	
			FEATURES:	2 ⁻ 1-1/2 ⁻ 3" 1-1/2	REMARKS	GLASS LINED STORAGE TA	NK.			TOTAL COOLING (MBH)		18.0	
			1. HINGED GRATE 2. 3/4 GRATE	4" 2"		(3) PVC EXHAUST AND COMBL		र ।		SENSIBLE COOLING (MBH)		-	
	2 ····			REMARKS: SEE FLOOR PLANS FOR WASTE		DIRECT VENT. PROVIDE R				AMBIENT AIR TEMPERATURE (F) MINIMUM NET COP (ARI)		47 / 17 / 5	
				AND VENT SIZE REQUIREMENTS.		(4) COORDINATE ELECTRICAL MANUFACTURER AND ELEC	REQUIREMENTS WITH			MINIMUM HEATING CAPACITY (MBH)		22.0	
						(5) 120°F DISCHARGE WATER (6) SUBJECT TO COMPLIANCE	TEMPERATURE.	/IDE		ТҮРЕ		R410A	
	MODEL: J.R. SMITH #3101						FOLLOWING MANUFACTURE		REFRIGERANT	MIN. NUMBER OF CIRCUITS			
			DESCRIPTION: METAL WASHING MACHINE BOX. CONSTRUCTION: RECESSED BOX AND FACEPLATE, 1/2" MIP/SWEAT CONNECTION VALVES AND A 2"	CW HW WASTE VENT 1/2" 1/2" 3" 2"						REMARKS TYPE		- (5)	
	STO- MACRO		THREADED DRAIN FITTING AND LOCKNUT.	REMARKS:					COMPRESSORS	QUANTITY		1	
	a an								COMPRESSORS	HP		-	
					FAN	SCHEDULE				REMARKS TYPE		- PROP.	
						PLAN TAG	EF-1		CONDENSER	QUANTITY		1	
	MODEL: GUY GRAY B200 OR EQUAL					MANUFACTURER MODEL NUMBER	AE110		FANS	HP		-	
	METAL WASHING MACHINE BOX		DESCRIPTION: RECESSED WALL OUTLET BOX WITH ISOLATION VALVE.	CW HW WASTE VENT	GENERAL	SERVES	(1)			REMARKS		-	
			DESCRIPTION. RECESSED WALL OUTLET BOX WITH ISOLATION VALVE.	1/4"	GENERAL	ТҮРЕ	CEILING		REMARKS	1. COOLING CAPACITY AT 100% COME TEMPERATURE AND 67°F INDOOR V	,		
				REMARKS:		MAXIMUM WEIGHT (LBS)	15			 HEATING CAPACITY: 100% HEATING CAPACITY AT 5° F O 			
						ROOF/WALL OPENING SIZE ACCESSORIES	- (2)			75% HEATING CAPACITY AT -13°F O 3. PROVIDE WITH 10 YEAR COMPRESS	SOR WARRANTY.	′ .	
						AIRFLOW (CFM)	60			4. AIR-TO-AIR HEAT PUMP SERVING M REFRIGERANT VOLUME UNITS WITH	H MANUFACTURE	ER'S CONTROLS.	
						TOTAL SP (IN. W.C.)	0.4			5. MANUFACTURER'S STANDARD INVE COMPRESSOR AND CONTROLS.			
	MODEL: OATEY #12K						-			6. PROVIDE WITH LOW AMBIENT KIT F AMBIENT, SNOW / HAIL GUARDS AN SINGLE POINT ELECTRICAL CONNE	ND BASE PAN HEA	ATER.	<u>.</u>
			DESCRIPTION: WALL HYDRANT WITH THE FOLLOWING FEATURES: NONFREEZE, AUTOMATIC DRAINING,	CW HW WASTE VENT	FAN	WHEEL TYPE MINIMUM WHEEL DIA.				 SINGLE POINT ELECTRICAL CONNE ELECTRICAL DISCONNECTS BY ELE ELECTRICAL DRAWINGS. 			J.
			ANTIBACKFLOW TYPE, KEY OPERATION, 3/4" NPS THREADED OR SOLDER JOINT INLET, AND GARDEN HOSE THREADS ON OUTLET. INCLUDE OPERATING KEY FOR EACH HYDRANT.	3/4"		MAXIMUM SONES	1			 SUBJECT TO COMPLIANCE WITH RE BY ONE OF THE FOLLOWING MANU 	. ,		
			1. TYPE: SURFACE MOUNT	REMARKS:		MAXIMUM FAN RPM	-			DAIKIN, SAMSUNG.		, IVII I OUDIÖ∏I,	
			 FINISH: CHROME PLATED OPERATION: KEY, 3/8" OPERATING ROD 			MAXIMUM FAN BHP RPM	-						
	6					HP	-						
						VOLTS	120						
	MODEL: WOODFORD MODEL #67				MOTOR	PHASE	1						
KS:		1				TYPE CONTROL DEVICE	- (3)						
		EMENTS INCLUDING STOPS, FITTINGS AND A	ALL OTHER SPECIALTIES. APHICAL IN NATURE. SEE DESCRIPTION FOR ACTUAL FIXTURE AND MODEL.			REMARKS	-						
UKE	UT FIATURES DU NUT INDICATE ACTU	UAL FINTURE OPEUIFIED. PICTURES ARE GF	AFTIIGAL IN INATURE. SEE DESURIPTION FOR ACTUAL FIXTURE AND MODEL.			(1) RESIDENTIAL BATHROOMS		TECDAL					
					REMARKS	(2) PLASTIC INTAKE GRILLE, DI DISCONNECT, GRAVITY BACKDE							
					1		RICAL						

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MEI PROJECT NO: 24030

morrissey engineering inc mechanical | electrical | lighting | technology | sustainability 4940 North 118th Street Omaha, NE 68164 P: 402.491.4144 Nebraska COA Number: CA-0835 www.morrisseyengineering.com

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do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. Iay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior

to verification of clearance for all trades.

note:

MECHANICAL SPECIFICATIONS

SECTION 210100 - GENERAL REQUIREMENTS FOR FIRE SUPPRESSION

A. RELATED DOCUMENTS

 Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

- 2. Division 21, 22 and 23 Conditions apply to this Section.
- B. SUMMARY
- 1. This Section includes general mechanical requirements and shall apply to all phases of the work specified indicated on the drawings or required to provide for complete installation of fire suppression systems.
- 2. Refer to Section 230100 for General Requirements for Mechanical
- 3. Refer to Section 230500 for Basic Mechanical Materials and Methods
- 4. Refer to Section 230505 for Basic Piping Materials and Methods

SECTION 211000 - WATER-BASED FIRE-SUPPRESSION SYSTEMS (NEW CONSTRUCTION)

A. Entire building shall be protected by a fire sprinkler system in accordance with the requirements of NFPA 13 and the Authority Having Jurisdiction. Fire sprinkler contractor shall verify available existing water pressure and flow and size piping to meet the requirements of NFPA 13 and the Authority Having Jurisdiction. Hydraulic calculations and sprinkler piping layout shall be submitted to engineer for review. A second set of shop drawings shall be submitted after the state fire marshal has reviewed design.

B. Provide fire service entrance with double check backflow preventor, isolation valves, check valves, flow switch, etc. as required by NFPA 13, local code requirements, and Authority Having Jurisdiction.

C. Drawings indicate general layout. Final pipe sizing, pipe routing, and sprinkler head layout shall be by the fire sprinkler contractor.

D. Piping material, fire sprinkler heads, and accessories shall be constructed of materials that meet the requirements of NFPA 13 and the Authority Having Jurisdiction. Steel piping shall be minimum Schedule 10 wall thickness. Warm occupied areas shall be protected by a wet pipe sprinkler system. Attic and areas subject to freezing shall be protected by a dry pipe system.

E. Sprinkler heads shall be as follows:

- Sprinkler heads in unheated attic or other areas subject to freezing shall be dry pipe pendant or sidewall sprinklers.
- Sprinkler heads in areas without ceilings shall be upright or pendant type.
 Sprinkler heads in areas with ceiling shall be concealed sprinkler heads with cover plate. Cover
- plate color shall be selected by the architect from manufacturer's standard colors.
- 4. Fire sprinkler heads shall be centered in tile where installed in lay-in tile ceilings.

G. Space above ceilings is limited. Coordinate location of all sprinkler heads and piping with all other trades. If conflicts do occur such that lights, mechanical piping, plumbing or ceiling systems cannot be installed due to sprinkler piping interference, the sprinkler piping shall be relocated at no additional cost to the project.

<u>SECTION 220100 - GENERAL REQUIREMENTS FOR PLUMBING</u> A. RELATED DOCUMENTS

1. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.

- 2. Division 22 and 23 Conditions apply to this Section.
- B. SUMMARY
- This Section includes general mechanical requirements and shall apply to all phases of the work specified indicated on the drawings or required to provide for complete installation of plumbing systems.
- 2. Refer to Section 230100 for General Requirements for Mechanical
- 3. Refer to Section 230500 for Basic Mechanical Materials and Methods

SECTION 220720 - PIPE INSULATION FOR PLUMBING

A. MINERAL-FIBER INSULATION: Glass fibers bonded with a thermosetting resin. Preformed Pipe Insulation: Comply with ASTM C 547, Type 1, with factory-applied, all-purpose, vapor-retarder jacket. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Apply insulation to pipes buy securing each layer of preformed pipe insulation to pipe with wire, tape, or bands without deforming insulation materials.

B. FLEXIBLE ELASTOMERIC THERMAL INSULATION: Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials. Adhesive as recommended by insulation material manufacturer. Ultraviolet-Protective coating as recommended by insulation manufacturer. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Follow manufacturer's written instructions for applying insulation. Seal longitudinal seams and end joints with manufacturer's recommended adhesive

C. VAPOR RETARDER: On piping systems operating below ambient space temperature, seal joints and seams with vapor-retarder mastic. Seal penetrations in insulation at hangers, supports, anchors, and other projections with vapor-retarder mastic Mastics.

D. INSULATION APPLICATION SCHEDULE

- Service: Domestic cold water (CW) Thickness/Material: 1/2" Mineral Fiber Vapor Retarder Required: Yes
- Service: Domestic hot water and circulating water (HW, HWC) Thickness/Material: Mineral Fiber. Apply the following insulation thicknesses:
 a. Systems without recirculation: 1/2"
 - b. 1/2" to 2" pipe: 1" c. 2 ½" and larger: 1-1/2"
 - Vapor Retarder Required: No
- Plumbing vents (V or AV), 2 foot section below roof Thickness/Material: 1/2" Mineral Fiber Vapor Retarder Required: Yes
- 4. Service: Sanitary waste piping Insulation Material: None

SECTION 221116 - WATER DISTRIBUTION PIPING

A. DOMESTIC WATER PIPING: Above ground; hard copper tube, ASTM B 88, Type L; copper, 95-5 solder-joint fittings; and soldered joints. Underground; Soft copper tube, ASTM B 88, Type K; wrought-copper, solder-joint pressure fittings; and soldered joints.

B. VALVES: Provide gate, ball or butterfly isolation valves close to main on each branch and riser serving plumbing fixtures or equipment, and where indicated . Provide globe, ball or butterfly valve for throttling where indicated. Provide supply stops at each plumbing fixture. Provide calibrated or automatic balancing valves as indicated.

C. TESTING: Test water distribution piping according to authority having jurisdiction. Clean and disinfect water distribution piping. Fill water piping. Check components to determine that they are not air bound and that piping is full of water.

SECTION 221316 - DRAINAGE AND VENT PIPING

A. ABOVEGROUND, SANITARY WASTE AND VENT AND STORM PIPING: CISPI 301, ASTM A888, Hubless, cast-iron soil pipe; hubless, cast-iron, soil-pipe fittings and hubless, cast-iron, Neoprene sleeve coupling with stainless steel clamps.

B. UNDERGROUND, SANITARY WASTE, AND VENT AND STORM PIPING: ASTM A74. Hub-and-spigot, cast-iron soil pipe, Service class; hub-and-spigot, cast-iron, soil-pipe fittings, lead & oakum or compression joints.

C. PIPING INSTALLATION: Make changes in direction for drainage and vent piping using appropriate branches, bends, and long-sweep bends. Do not make change in direction of flow greater than 90 degrees. Lay buried building drain piping beginning at low point of each system. Install true to grades and alignment indicated, with unbroken continuity of invert. Place hub ends of piping upstream. Install required gaskets according to manufacturer's written instructions.

D. SLOPE: Install drainage and vent piping at the following minimum slopes, unless otherwise indicated:

1. Sanitary Piping: 2 percent downward in direction of flow for piping 3-inch NPS and smaller; 1 percent downward in direction of flow for piping 4-inch NPS and larger.

2. Vent Piping: 1 percent down toward vertical fixture vent or toward vent stack.

E. TESTING: Test drainage and vent piping according to procedures of authorities having jurisdiction.

SECTION 221319 - PLUMBING SPECIALTIES

A. WATER HAMMER ARRESTERS: ASME A112.26.1M, ASSE 1010, or PDI-WH 201, bellows or piston type with pressurized cushioning chamber. Provide at each battery of fixtures.

B. WATER PRESSURE REGULATORS: water regulators, rated for initial working pressure of 150 psig minimum, of size, flow rate, and inlet for 80 psig outlet pressure. Install on building service piping.

C. WALL HYDRANTS (WH-1): nonfreeze, automatic draining, antibackflow type, key operation, with 3/4-inch NPS threaded or solder-joint inlet, and garden-hose threads on outlet. Include operating key for each hydrant. Nickel bronze finish. Woodford Model B65 or equal.

D. WALL CLEANOUTS (WCO): Cast iron body adaptable to pipe with cast bronze, brass cleanout plug; stainless steel cover, vandal proof screws. Install as shown and as required by code.

E. CLEANOUT PLUGS (CO): Cast iron or brass, threads complying with ANSI B2.1, countersunk head. Engrave heads to identify system.

F. FLOOR CLEANOUTS (FCO): Cast iron body and frame with cleanout plug and adjustable round nickel bronze

- top. Provide to match floor system: 1. Exposed finish type, standard mill finish.
- Exposed flush type, standard non-slip scored or abrasive finish.
- 3. Exposed flush type, standard mill finish and carpet marker.
- 4. Heavy duty for traffic applications.

G. VENT FLASHING (VTR): 24" square minimum. Non-plasticized, chlorinated, polyethylene, concealed, waterproof membrane, 0.40" thick, solvent weldable or Lead sheet, 2-1/2" lb/sf, concealed.

224000 PLUMBING FIXTURES

A. Installation: Install handles for accessible water closets and urinals with handle mounted on wide side of compartment. Install individual stop valve in each water supply to fixture. Install water-supply stop valves in accessible locations. Install traps on fixture outlets. Omit traps on fixtures having integral traps and on indirect wastes. Vent all fixtures as required by local code. Seal joints between fixtures and walls, floors, and counters using sanitary-type, 1-part, mildew-resistant, silicone sealant. Match sealant color to fixture color. Install hot and cold water supply, waste and vent piping of sizes indicated, but not smaller than required by authorities having jurisdiction

B. See Plumbing Fixture Schedule on this sheet for plumbing fixture specifications.

	SECTION 230100 - GENERAL REQUIREMENTS FOR MECHANICAL
t	A. WARRANTIES - All materials, workmanship and equipment shall be warranted against defects or against injury from proper and usual wear for a period of one year after the date of substantial completion. Any item that becomes defective within the warranty period shall be repaired or replaced, at no additional cost to the Owner. Warranty shall include repair of faulty workmanship.
	B. DEFINITIONS ABBREVIATIONS - The following shall apply throughout the contract documents:
	Furnish Supply and deliver to site ready for installationIndicatedNoted, scheduled or specifiedProvide Furnish, install and connect complete and ready for final useADAAmericans with Disabilities ActANSIAmerican National Standards InstituteASMEAmerican Society of Mechanical EngineersASHRAEAmerican Society of Heating, Refrigeration and Air Conditioning EngineersNECNational Electric Code (NFPA 70)NEMANational Fire Protection AssociationNFPANational Fire Protection AssociationSMACNASheet Metal and Air Conditioning Contractors National AssociationULUnderwriters Laboratories Inc.
	C. CODES AND STANDARDS - All work shall be performed by competent craftsmen skilled in the trade involved and shall be done in a manner consistent with normal industry standards. All work shall conform to the currently adopted edition of the National Electric Code (NEC), Local Building Code, Local Plumbing Code, Local Mechanical Code, Local Fire Code, and all other applicable state and local codes or standards. Where there is a conflict between the code and the contract documents, the code shall have precedence only then it is more stringent than the contract documents.
	D. PERMITS - Contractor shall become familiar and comply with all requirements regarding permits, fees, licenses, etc. All permits, licenses, inspections and arrangements required for the work shall be obtained by Contractor's effort and expense. All utilities shall be installed in accordance with the local rules and regulations and all charges shall be paid by the Contractor.
	E. SUBMITTALS - Shop drawings shall be submitted to Architect/Engineer for all items of mechanical equipment including the following:
h	Diffusers, Registers, Grilles Sheet Metal Accessories HVAC equipment Plumbing Fixtures Plumbing Specialties
,	 Shop drawings include fabrication and installation drawings, diagrams, schedules and other data specifically prepared for the project. Include dimensions and notations showing compliance with specified standards. Unless otherwise noted, submit a minimum of six (6) copies of shop drawings for review. Electronic copies (in pdf format) by e-mail are acceptable in lieu of hard copies.
S	 Architect/Engineer will review or take appropriate action for submittals. Review is only to determine general conformance with design shown in contract documents. Review of submittals shall not relieve contractor of responsibility for deviation from requirements of the contract documents or from errors or omissions within submittals.
	F. MATERIALS - All materials and equipment used in the construction of the project shall be new unused and undamaged unless otherwise specified. Materials and equipment shall be of latest design standards of manufacturer specified. Verify installation details and requirements for materials and equipment furnished by others and installed under this contract.
)	G. DEMONSTRATION AND TRAINING - Instruct Owner's personnel to adjust, operate, and maintain mechanical systems. Schedule training with Owner with at least seven days' advance notice.
	H. STARTING AND ADJUSTING - Start and test all equipment and operating components to confirm proper operation. Test and adjust all systems to achieve designed capacity and performance. All equipment and systems discrepancies shall be corrected prior to final acceptance. <u>SECTION 230500 - BASIC MECHANICAL MATERIALS AND METHODS</u>
	A. PIPING INSTALLATION: Install piping at required slope. Install components with pressure rating equal to or greater than system operating pressure. Install piping in concealed locations, except in equipment rooms and service areas. Install piping free of sags and bends. Install piping at right angles or parallel to building walls. Install piping tight to slabs, beams, joists, columns, walls, and other building elements. Locate groups of pipes parallel to each other, spaced to permit valve servicing. Install fittings for changes in direction and branch connections. Install pipe escutcheons for exposed pipe penetrations walls and ceilings. Install sleeves for pipes passing through concrete and masonry walls, and concrete floor and roof slabs. Provide dielectric fitting where two different types of pipe materials are joined. Comply with MSS-69 for pipe hanger selection and application.
	B. EQUIPMENT INSTALLATION: Install equipment per manufacturer's recommendations Install equipment as high as possible. Install equipment level and plumb, parallel and perpendicular to building. Install mechanical equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference to other installations. Install equipment giving right of way to piping installed at required slope.
	C. LABELING AND IDENTIFYING
	Piping: Provide pipe markers on each system where pipe is exposed to view and above removable ceilings. Include pipe description of system and arrows showing normal direction of flow.
	Equipment: Install engraved plastic-laminate sign or equipment marker on or near each major item of mechanical equipment.
	D. CUTTING AND PATCHING: Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces necessary for mechanical installations. Perform cutting by skilled mechanics of trades involved. Repair cut surfaces to match adjacent surfaces. <u>SECTION 230593 - TESTING, ADJUSTING, AND BALANCING</u>
	A. Examine air-handling equipment to ensure clean filters have been installed, bearings are greased, belts are aligned and tight, and equipment with functioning controls is ready for operation. Check dampers for proper position.
	B. Perform testing and balancing procedures on each system according to the procedures contained in NEBB's "Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems" and this Section.
	C. Adjust fans to deliver total design airflow within the maximum allowable rpm listed by the fan manufacturer. Provide new fan sheaves as required. Measure fan airflow, static pressure, rpm and amp draw.
	D. Adjust volume dampers to achieve design airflow within 10% of specified values. Adjust diffusers, registers and grilles. Adjust minimum and maximum outside airflow.
	E. Prepare report listing date, project information, equipment data and measured airflow results. Report shall include drawing indicating locations of air outlets and final measured airflow of each outlet. Submit four copies of report to engineer for review.
	SECTION 230700 - DUCT INSULATION
	A. MINERAL-FIBER BLANKET THERMAL INSULATION: Glass fibers bonded with a thermosetting resin. Comply with ASTM C 553, Type II, with all-service jacket manufactured from kraft paper, reinforcing scrim, aluminum foil, and vinyl film. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Apply insulation materials, accessories, and finishes according to the manufacturer's written instructions with the least number of joints practical. Seal joints and seams with vapor-retarder mastic on cold air ducts. Seal penetrations in insulation at hangers, supports, anchors, and other projections with vapor-retarder mastic.

SECTION 230100 - GENERAL REQUIREMENTS FOR MECHANICAL

B. APPLICATION SCHEDULE

 Service: GENERAL EXHAUST AIR - From fan back 36" into building Thickness/Material: 2" Mineral-fiber Blanket Minimum Installed R-Value: R5 Vapor Retarder Required: Yes SECTION 230720 - PIPE INSULATION FOR HVAC

A. MINERAL-FIBER INSULATION: Glass fibers bonded with a thermosetting resin. Preformed Pipe Insulation: Comply with ASTM C 547, Type 1, with factory-applied, all-purpose, vapor-retarder jacket. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Apply insulation to pipes buy securing each layer of preformed pipe insulation to pipe with wire, tape, or bands without deforming insulation materials.

B. FLEXIBLE ELASTOMERIC THERMAL INSULATION: Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials. Adhesive as recommended by insulation material manufacturer. Ultraviolet-Protective coating as recommended by insulation manufacturer. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Follow manufacturer's written instructions for applying insulation. Seal longitudinal seams and end joints with manufacturer's recommended adhesive

C. VAPOR RETARDER: On piping systems operating below ambient space temperature, seal joints and seams with vapor-retarder mastic. Seal penetrations in insulation at hangers, supports, anchors, and other projections with vapor-retarder mastic.

D. INSULATION APPLICATION SCHEDULE

- Service: Condensate drain piping (CD) Thickness/Material: Mineral Fiber. Apply the following insulation thicknesses: a. PVC piping: None b. Copper: 1/2"
- Vapor Retarder Required: Yes
- Service: Refrigerant suction (RS), refrigerant liquid (RL) and refrigerant hot gas discharge (RD) Thickness/Material: 1-1/2" Flexible Elastomeric Vapor Retarder Required: Yes

Finish: Two coats of manufacturer's coating when exposed to outside

SECTION 231123 - NATURAL GAS PIPING

A. STEEL PIPE: Pipe: ASTM A 53; Type E or S; Grade B; Schedule 40; black. Malleable-Iron. Threaded Fittings ASME B16.3, Class 150, standard pattern, with threaded ends according to ASME B1.20.1. Unions: ASME B16.39, Class 150, malleable iron with brass-to-iron seat, ground joint, and threaded ends according to ASME B1.20.1. Joint Compound and Tape: Suitable for natural gas.

B. Install and test gas piping according to NFPA 54 "National Fuel Gas Code" and Authority having jurisdiction.

A. REFRIGERANT PIPING

B. REFRIGERANT VALVES

SECTION 232300 - REFRIGERANT PIPING

1. Aboveground, ASTM B 280, Type ACR copper tubing with brazed joints (using AWS A5.8 filler material).

Service Valves:
 a) Body: Forged brass with brass cap including key end to remove core.

-) Core: Removable ball-type check valve with stainless-steel spring.
- Seat: Polytetrafluoroethylene. End Connections: Copper spring.
-) Working Pressure Rating: 500 psig.
- 2. Solenoid Valves: Comply with ARI 760 and UL 429; listed and labeled by an NRTL.
- Body and Bonnet: Plated steel. Solenoid Tube, Plunger, Closing Spring, and Seat Orifice: Stainless steel.
- Seat: Polytetrafluoroethylene.
- End Connections: Threaded.
- e) Electrical: Molded, watertight coil in NEMA 250 enclosure of type required by location with 1/2-inch conduit adapter, and 24-V ac coil.
- Working Pressure Rating: 400 psig.
 Maximum Operating Temperature: 240 deg F.
-) Manual operator.

C. INSTALLATION:

- Refrigerant piping to be installed per ASHRAE 15.
 Sizing, pipe arrangement, and refrigerant specialties shall be determined by the equipment manufacturer based on the final layout / routing worked out in the field. Installation shall follow the recommended
- requirements of the equipment manufacturer. Piping shall be free of sags and bends and routed in as direct as possible path between components.
- Pipe shall be insulated per insulation schedule. Use of thermal shields must be used at support points (attaching support/clamps directly to the piping will be unacceptable).

B. TESTING: Purge refrigerant piping systems with dry nitrogen. Prepare and pressure test piping according to ASHRAE 15. Charge system refrigerant.

SECTION 233113 - METAL DUCTS AND ACCESSORIES

A. GENERAL: Drawings indicate general arrangement of ducts, fittings, and accessories. Minor modifications to route, size and shape of duct may be made to meet structural and other interference. Changes which could affect system performance shall be reviewed by Architect/Engineer prior to fabrication or installation of duct. Coordinate layout with suspended ceiling, fire- and smoke-control dampers, lighting layouts, and similar finished work.

B. DUCT FABRICATION: Sizes shown on plans are inside clear dimensions. Ductwork utilizing duct liner shall be increased in size to accommodate the duct liner thickness.

C. MATERIAL: Construct all rectangular and round ducts from galvanized sheet steel: Lock-forming quality; ASTM A 653/A 653M, G90 coating designation; mill-phosphatized finish for surfaces of ducts exposed to view.

D. QUALITY ASSURANCE: Fabricate and install duct per SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" and applicable codes. Comply with requirements for metal thickness, reinforcing types and intervals, tie-rod applications, and joint types and intervals. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilating Systems," unless otherwise indicated.

E. PRESSURE CLASS: Unless otherwise noted construct all ducts to 2.0" WG positive or 2.0" WG negative pressure class.

F. DUCT SEALING: UL classified, non-combustible, flame spread 25 or less, smoke developed rating of 540 or less, resistant to water, pressure rupture rating of 16" WG minimum, suitable for use alone or with tape, application an operational temperature ranges appropriate for usage. Seal all duct per SMACNA class 'C' duct seal requirements.

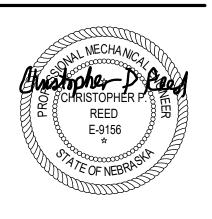
G. TURNING VANES: Fabricate of 1-1/2" wide, curved blades 3/4" on center. Provide turning vanes in all mitered elbows and duct turns.

H. DUCT ACCESS DOORS: Install insulated duct access doors with hinges and latches for access to inlet side of coils, equipment, control dampers, fire dampers, and smoke dampers.

I. FLEXIBLE CONNECTORS: Flame-retarded or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1. Neoprene double-coated woven glass fibber fabric in accordance with NFPA 90A, suitable for temperatures and pressures of application, approximately 6" wide, crimped into metal edge strip. Provide flexible connections to motor driven equipment.

J. FLEXIBLE DUCTS: Factory-fabricated, insulated, round duct, with an outer jacket enclosing 1-1/2-inch- thick, glass-fiber insulation around a continuous inner liner, steel-wire helix encapsulated in polyethylene inner liner. Comply with UL 181, Class 1. Final connections to air outlets and terminal units may be made with flexible duct. Install flexible ducts with metal collars or sleeves with draw bands. Length of flexible duct shall not exceed 36" path shall not exceed 45°.





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Revisions |

Project No. | 23042 Issue Date | 07.29.24

MECHANICAL SPECIFICATIONS

MEI PROJECT NO: 24030



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



ELECTRICAL SPECIFICATIONS

- SECTION 260100 GENERAL ELECTRICAL REQUIREMENTS
- A. WARRANTIES All materials, workmanship and equipment shall be warranted against defects or against injury from proper and usual wear for a period of one year after the date of substantial completion. Any item that becomes defective within the warranty period shall be repaired or replaced, at no additional cost to the Owner. Warranty shall include repair of faulty workmanship.
- B. DEFINITIONS ABBREVIATIONS The following shall apply throughout the contract documents:
- Indicated Noted, scheduled or specified
- Provide Furnish, install and connect complete and ready for final use
- NEC National Electric Code (NFPA 70)
- NEMA National Electrical Manufacturers Association

Furnish Supply and deliver to site ready for installation

- NFPA National Fire Protection Association
- UL Underwriters Laboratories Inc.
- C. CODES AND STANDARDS All work shall be performed by competent craftsmen skilled in the trade involved and shall be done in a manner consistent with normal industry standards. All work shall conform to D. RACEWAYS - Minimum raceway size shall be ¹/₂". Raceway types and applications shall be as follows: the currently adopted edition of the National Electric Code (NEC), Local Building Code, and all other applicable state and local codes or standards. Where there is a conflict between the code and the contract documents, the code shall have precedence only then it is more stringent than the contract documents.
- D. PERMITS Contractor shall become familiar and comply with all requirements regarding permits, fees, licenses, etc. All permits, licenses, inspections and arrangements required for the work shall be obtained by Contractor's effort and expense. All utilities shall be installed in accordance with the local rules and regulations and all charges shall be paid by the Contractor.
- E. SUBMITTALS Shop drawings shall be submitted to Architect/Engineer for the following items of electrical equipment:

Wiring devices

Enclosed controllers, switches, and circuit breakers

Panelboards

Lighting fixtures

- Fire alarm
- 1. Shop drawings include fabrication and installation drawings, diagrams, schedules and other data specifically prepared for the project. Include dimensions and notations showing compliance with specified standards. Unless otherwise noted, submit a PDF copy of shop drawings for review.
- 2. Architect/Engineer will review or take appropriate action for submittals. Review is only to determine general conformance with design shown in contract documents. Review of submittals shall not relieve contractor of responsibility for deviation from requirements of the contract documents or from errors or omissions within submittals.
- F. MATERIALS All materials and equipment used in the construction of the project shall be new unused and undamaged unless otherwise specified. Materials and equipment shall be of latest design standards of manufacturer specified. Verify installation details and requirements for materials and equipment furnished by others and installed under this contract.
- G. DEMONSTRATION AND TRAINING Instruct Owner's personnel to adjust, operate, and maintain electrical systems. Schedule training with Owner with at least seven days' advance notice.
- H. STARTING AND ADJUSTING Start and test all equipment and operating components to confirm proper operation. Test and adjust all systems to achieve designed capacity and performance. All equipment and systems discrepancies shall be corrected prior to final acceptance.
- I. TEMPORARY POWER AND LIGHTING Provide temporary electric power from local utility with metering and payment of use charges.
- Provide receptacle outlets adequate for connection of power tools and construction equipmen 2. Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.

- SECTION 260500 BASIC ELECTRICAL MATERIALS AND METHODS
- A. QUALITY ASSURANCE Electrical Components, Devices, and Accessories shall be listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. COORDINATION Coordinate chases, slots, inserts, sleeves, and openings with general construction work and arrange in building structure during progress of construction to facilitate the electrical installations that follow. Sequence, coordinate, and integrate installing electrical materials and equipment for efficient flow of the work. Coordinate installing large equipment requiring positioning before closing in the building.
- 1. Coordinate installation and connection of exterior underground and overhead utilities and services, including provision for electricity-metering components. Comply with requirements of authorities having jurisdiction and of utility company providing electrical power and other services.
- C. CONDUCTORS All conductors shall be installed in raceways. Conductors for pilot and control circuits shall be #14. All other conductors shall be #12 or larger.
- 1. Conductors, No. 10 AWG and Smaller: Solid or stranded copper.
- 2. Conductors, Larger Than No. 10 AWG: Stranded copper. 3. Insulation: Thermoplastic, rated at 75 deg C minimum.
- 4. Wire Connectors and Splices: Units of size, ampacity rating, material, type, and class suitable for service indicated.
- 1. Electrical metallic tubing (EMT): ANSI C80.3, zinc-coated steel, with set-screw or compression fittings. EMT shall be used for all other applications not listed below. 2. Liquid tight flexible metal conduit (LFMC): Zinc-coated steel with sunlight-resistant and mineral-oilresistant plastic jacket. LFMC shall be used for connections to vibrating equipment or in wet or damp
- locations. 3. Rigid non-metallic conduit (RNC): NEMA TC 2, Schedule 40 PVC, with NEMA TC3 fittings. RNC shall be used for all underground applications.
- 4. Raceway Fittings: Specifically designed for the raceway type with which used.
- E. JUNCTION AND DEVICE BOXES Minimum box size shall be 4" square with extension or plaster ring as required. Box types and applications shall be as follows
- 1. Sheet metal boxes: NEMA OS 1 galvanized steel. Sheet metal boxes shall be used for all surface mounted applications and flush mounting in gypsum or plaster walls.
- 2. Masonry boxes: square cornered suitable for flush mounting in masonry construction. 3. Cast metal boxes: NEMA FB 1, Type FD, cast box with gasketed cover. Cast metal boxes shall be used for exterior surface mounted applications.
- F. ELECTRICAL IDENTIFICATION All conductors shall be color coded throughout the installation. Color coding shall be as prescribed by ANSI A13.1 and NFPA 70.
- 1. Provide engraved-plastic labels for all disconnect switches, switchboards, panelboards, transformers, and control devices. Labels shall be melamine plastic laminate engraving stock with 3/8" engraved lettering and shall be punched or drilled for mechanical fasteners.
- G. FIRESTOPPING Apply firestopping to cable and raceway penetrations of fire-rated floor and wall assemblies to achieve fire-resistance rating of the assembly.
- H. DEMOLITION Protect existing electrical equipment and installations indicated to remain. If damaged or disturbed in the course of the Work, remove damaged portions and install new products of equal capacity, quality, and functionality.
- 1. Remove exposed electrical equipment and installations, indicated to be demolished, in their entirety. 2. Cut and remove buried raceway and wiring, indicated to be abandoned in place, 2 inches below the surface of adjacent construction. Cap raceways and patch surface to match existing finish.
- 3. Remove demolished material from Project site.
- 4. Remove, store, clean, reinstall, reconnect, and make operational components indicated for relocation. 5. Existing utilities shall not be interrupted without prior written approval from the owner. All interruptions shall occur during off hours.
- . CUTTING AND PATCHING Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces required to permit electrical installations. Perform cutting by skilled mechanics of trades involved.
- 1. Repair and refinish disturbed finish materials and other surfaces to match adjacent undisturbed surfaces. Install new fireproofing where existing firestopping has been disturbed. Repair and refinish materials and other surfaces by skilled mechanics of trades involved.

	BECODIDEION		0)/142.01	DECODIDATION /
SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION
		LIGH	TING	
	LUMINAIRE		S	SINGLE POLE SWITCH
	LUMINAIRE		<u>S</u> 3	3 - WAY SWITCH
	LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT OR BATTERY		<u>S4</u>	4 - WAY SWITCH
-0-1	STRIP LUMINAIRE			WALL BOX DIMMER SWITCH
	WALL MOUNTED LUMINAIRE			CEILING MOUNTED MOTION SENSOR/SWITCH
		NUMBER OR LETTER DENOTES TYPE, SEE	<u>н</u> е	WALL MOUNTED MOTION SENSOR/SWITCH
<u>ю</u>	WALL MOUNTED LUMINAIRE TRACK LUMINAIRE	CORRESPONDING	⊢ K�₀	WALL MOUNTED MOTION SENSOR/SWITCH WITH 0-10V DIMMING
\diamond $4 \rightarrow$	EMERGENCY BATTERY PACK	MARK		LOW VOLTAGE LIGHTING CONTROL SWITCH WALL MOUNTED PHOTOCELL
	CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW	IN LUMINAIRE	⊢₽ ₽	CEILING MOUNTED PHOTOCELL
 ⊢⊗ !	WALL OR END MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW	SCHEDULE	PP	POWER PACK
	POLE MOUNTED LUMINAIRE		FF	
<u><u><u></u></u><u></u><u></u><u></u></u>	BOLLARD LUMINAIRE			
~		FIRE A	LARM	
•	FIRE ALARM SMOKE DETECTOR		FK	FIRE ALARM HORN & STROBE COMBINATION
	FIRE ALARM SMOKE DETECTOR		F∎ F∎	FIRE ALARM MORIN & STROBE COMBINATION
	DUCT MOUNTED SMOKE DETECTOR		Ē	CEILING FIRE ALARM STROBE
F	FIRE ALARM MANUAL PULL STATION		HE	WALL FIRE ALARM STROBE
F-X	FIRE SPRINKLER VALVE TAMPER SWITCH		<u> </u>	CEILING FIRE ALARM HORN & STROBE COMBINATION
F O	FIRE SPRINKLER FLOW SWITCH		Ē	CEILING FIRE ALARM SPEAKER & STROBE COMBINATION
FACP	FIRE ALARM CONTROL PANEL		KE	WALL FIRE ALARM SPEAKER & STROBE COMBINATION
FAA	FIRE ALARM ANNUNCIATOR PANEL		(S) ^F	CEILING FIRE ALARM SPEAKER
H	FIRE ALARM MAGNETIC DOOR HOLDER		K§∕F	WALL FIRE ALARM SPEAKER
		POV	VER	
Ð	DUPLEX RECEPTACLE		8	CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE
= ⊖ 6	"G" DENOTES GFCI TYPE		•	FLOOR BOX - COMBINATION POWER & DATA
⇒⊳	"⊳" DENOTES ISOLATED GROUND TYPE		\odot	POKE-THRU - COMBINATION POWER & DATA
= Э н	"H" DENOTES HOSPITAL GRADE TYPE			FLOOR MOUNTED DUPLEX RECEPTACLE
TR	"TR" DENOTES TAMPER RESISTANT TYPE		(M)#	MOTOR ("#" DENOTES HORSEPOWER RATING)
⇒u	"U" DENOTES UNIVERSAL SERIAL BUS (USB) TYPE			DISCONNECT SWITCH
=	DOUBLE SHADING DENOTES RED DEVICE		Ste	THERMAL ELEMENT SWITCH
	SINGLE SHADING DENOTES SPLIT WIRED DEVICE		∎ M	SWITCH & FUSE
<u>нф</u>	HORIZONTAL MOUNTED DUPLEX RECEPTACLE			SWITCH & FUSTAT
<u> </u>	CEILING MOUNTED DUPLEX RECEPTACLE			MAGNETIC MOTOR STARTER
	DOUBLE DUPLEX RECEPTACLE SINGLE RECEPTACLE			COMBINATION MAGNETIC STARTER/DISCONNECT MOTOR CONTROL PUSHBUTTON STATION
<u>⊢</u> ⊢●	DRYER RECEPTACLE NEMA 14-30 (125/250V 30A)		R	RELAY
÷	RANGE RECEPTACLE NEMA 14-50 (125/250V 50A)		ĸ	MULTI-OUTLET ASSEMBLY - LENGTH AS INDICATED
 ₩	"W" DENOTES WELDER RECEPTACLE NEMA 6-50 (250V 50A)			
<u>-Ф</u>	SPECIAL PURPOSE RECEPTACLE (NEMA CONFIG. AS NOTED)			
¥.		COMMUN	VICATION	
•	WALL PHONE OUTLET	001010101		
	WALL PHONE OUTLET		(S)	INTERCOM CEILING SPEAKER INTERCOM WALL SPEAKER
	CEILING COMMUNICATIONS DATA OUTLET		HS HS	SOUND REINFORCEMENT WALL SPEAKER
WAP	CEILING COMMONICATIONS DATA OUTLET		FS S	SOUND REINFORCEMENT WALL SPEAKER
	TELEVISION/VIDEO OUTLET		©	WALL MICROPHONE OUTLET
	WALL CLOCK			CEILING MICROPHONE OUTLET
V	VOLUME CONTROL		C	CALL-IN DEVICE
	BASKET CABLE TRAY			LADDER CABLE TRAY
HAIR	AV RACK OUTLET			
		GEN	ERAL	
	LIGHTING PANEL	GLIN		WALL MOUNTED JUNCTION BOX
	DISTRIBUTION PANEL SWITCHBOARD OR MOTOR CONTROL CENT	FR		JUNCTION BOX
	CABINET, ENCLOSURE, OR CONTROL PANEL, TYPE INDICATED ON			CONDUIT SEAL
	BRANCH CIRCUIT - EXPOSED		~	CIRCUIT DOWN
\sim	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL			CIRCUIT UP
~-~	BRANCH CIRCUIT CONCEALED IN FLOOR			CONDUIT STUB-OUT
	BRANCH CIRCUIT - CLASS TWO WIRING		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CIRCUIT BREAK
	HOMERUN TO PANEL (QUANTITY OF ARROWS INDICATES QUANTI	TY OF CIRCUITS)		BELL
~~~	SPECIAL PURPOSE HOMERUN AS INDICATED		•	PUSH BUTTON
E3	CONDUIT / CONDUIT SLEEVE (SIZE INDICATED ON PLANS)		B	BUZZER
WP	SUBSCRIPT "WP" APPLIED TO ANY SYMBOL INDICATES WEATHER	PROOF	(T)	THERMOSTAT
VVF	NEMA TYPE 3R OR EQUIVALENT		SS	SUBSCRIPT "SS" ADDED TO ANY SYMBOL INDICATES SINGLE STATION SMOKE DETECT
3R OR RT	SUBSCRIPT "3R" OR "RT" APPLIED TO ANY SYMBOL INDICATES		E	SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING
JI JI II	WEATHERPROOF NEMA TYPE 3R OR EQUIVALENT		R	SUBSCRIPT "R" ADDED TO ANY SYMBOL INDICATES RELOCATED
PD	SUBSCRIPT "PD" ADDED TO ANY FLOOR OUTLET INDICATES PEDE	STAL	(TYP)	WHERE (TYP) IS USED ON PLANS INDICATES A TYPICAL NOTE OR CONDITION
	MOUNTED		DL	SUBSCRIPT "DL" ADDED TO ANY SYMBOL INDICATES DAMP LOCATION
				SUBSCRIPT "K" ADDED TO ANY SYMBOL INDICATES KEY OPERATED
EP	SUBSCRIPT "EP" APPLIED TO ANY SYMBOL INDICATES EXPLOSION CLASS, GROUP & DIVISION AS NOTED	PROOF	K P	SUBSCRIPT "P" ADDED TO ANY SYMBOL INDICATES REF OPERATED

**ELECTRICAL NOTES** 

- GENERAL:
- 1. MINIMUM BRANCH CIRCUIT CONDUIT SHALL BE 1/2". MINIMUM DATA/COMMUNICATIONS CONDUIT SHALL BE 1/". SEE DRAWINGS FOR AREAS WHERE LARGER CONDUIT SIZES ARE REQUIRED.
- 2. PROVIDE A DEDICATED NEUTRAL CONDUCTOR AND GREEN INSULATED GROUND WIRE FOR EACH BRANCH
- 3. SEE DEVICE ALIGNMENT DETAIL (2/E2.0) FOR MOUNTING LOCATION AND HEIGHT OF ELECTRICAL DEVICES ADJACENT TO DOORS.
- 4. EXPOSED STRUCTURE: ROUTE CONDUIT TIGHT TO DECK IN SPACES WITHOUT CEILINGS OR PARTIALLY-OPEN CEILINGS. EXPOSED WIRING OR CABLING OF ANY TYPE IS NOT ALLOWED UNLESS NOTED OTHERWISE. CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE IN A NEAT AND WORKMANLIKE MANNER AND GROUPED WHERE POSSIBLE. PAINT EXPOSED CONDUIT AND BOXES TO MATCH STRUCTURE IN ALL FINISHED AREAS.
- 5. ALL CABLING AND RACEWAY INSTALLED IN EXPOSED OR CONCEALED LOCATIONS NEAR METAL CORRUGATED ROOF DECKING SHALL BE INSTALLED WITH THE REQUIRED CLEARANCE PER NEC SECTION 300.4(E).
- 6. PROVIDE TYPED AS-BUILT DIRECTORY FOR ALL ELECTRICAL PANELS, LIGHTING CONTROL PANELS, AND FIRE ALARM SYSTEM AT COMPLETION OF PROJECT. UPDATE ALL EXISTING PANELBOARD DIRECTORIES IMPACTED BY ELECTRICAL WORK. DIRECTORY LABELS SHALL INCLUDE A DESCRIPTION OF THE LOAD AS WELL AS THE OWNER'S ROOM NAME AND NUMBER.

#### DEMOLITION:

- 1. COMPLETE EXTENT OF DEMOLITION IS NOT INDICATED ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BID DATE. 2. ALL EXISTING ELECTRICAL DEVICES, LUMINAIRES, EQUIPMENT, WIRING AND RACEWAYS INCLUDING
- DATA/COMMUNICATION SYSTEMS SHALL BE REMOVED UNLESS OTHERWISE INDICATED.
- 3. REMOVE ALL UNUSED LOW VOLTAGE AND FIRE ALARM CABLING UNLESS NOTED OTHERWISE.
- 4. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL DEMOLITION ITEMS AND WHERE EXISTING WALLS ARE TO BE REMOVED. DISCONNECT AND REMOVE ELECTRICAL DEVICES. EQUIPMENT AND ASSOCIATED WIRING AS REQUIRED TO ACCOMMODATE CONSTRUCTION.
- 5. THE OWNER SHALL HAVE FIRST SALVAGE RIGHTS TO ALL ELECTRICAL ITEMS. CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH OWNER AND DISPOSE OF UNWANTED ITEMS. POWER:
- 1. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR ALL THERMOSTATS AND SENSORS. ROUGH-IN TO INCLUDE 4" SQUARE BOX, SINGLE GANG MUD RING, AND 1/2" CONDUIT TO ABOVE NEAREST ACCESSIBLE CEILING. LOCATE BOX PER DEVICE ALIGNMENT DETAIL. REFER TO MECHANICAL DRAWINGS FOR THERMOSTAT AND/OR SENSOR LOCATIONS.
- LIGHTING:
- 1. MINIMUM WIRE SIZE FOR EMERGENCY LIGHTING CIRCUITS SHALL BE #10 AWG UNLESS OTHERWISE NOTED. ROUTE EMERGENCY CIRCUITS IN SEPARATE CONDUIT.
- 2. CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL CONTROL DEVICES.
- 3. PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL CONTROL DEVICES.

#### SECTION 262416 - PANELBOARDS

- A. GENERAL Panelboard cabinets shall be NEMA PB 1, type 1 zinc coated steel with manufacturer's standard enamel finish over corrosion-resistant treatment or primer coat. Each panelboard shall be furnished with a directory card indicating the load served by each branch circuit.
- 1. Panelboard bus material shall be hard-drawn copper, 98 percent conductivity [Tin-plated aluminum].
- 2. Provide each panelboard with an equipment ground bus adequate for feeder and branch-circuit equipment ground conductors. Bus shall be bonded to box. 3. Where future devices (spaces) are scheduled provide mounting brackets, bus connections, and
- necessary appurtenances required for future installation of devices.
- 4. Each panelboard shall be fully rated to interrupt symmetrical short-circuit current available at terminals. See schedules for required interrupting current (A.I.C.).
- 5. Panelboards shall be mounted with top of trim at 74" above finished floor, unless otherwise indicated.
- 6. Panelboards shall be mounted plumb and rigid without distortion of box. Mount recessed panelboards with fronts uniformly flush with wall finish. 7. Panelboards shall be manufactured by Cutler-Hammer, General Electric, Siemens, or Square D.
- B. LOAD CENTERS
- 1. Overcurrent Protective Devices: Plug-in, full-module circuit breaker. 2. Conductor Connections: Mechanical type for main, neutral, and ground lugs and buses.
- C. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS
- 1. Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- D. OVERCURRENT PROTECTIVE DEVICES Thermal-magnetic circuit breakers with inverse time-current element for low-level overloads, and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger. Circuit breaker lugs shall be

2. Doors: Front mounted with concealed hinges; secured with flush latch with tumbler lock; keved alike.

mechanical style, suitable for number, size, trip ratings, and material of conductors.

#### 1. Each overcurrent protective device shall have an application listing appropriate for the application. SECTION 262726 - WIRING DEVICES

- A. GENERAL Devices shall be installed plumb and secure. Unless otherwise indicated, flush mount wiring devices with long dimension vertical, and grounding terminal of receptacles on bottom.
- 1. Unless otherwise indicated wiring devices shall be mounted at the following heights, measured from finished floor to centerline of device.
- Wall switches and wall box dimmers = 44"

Receptacles = 16"

- 2. Group adjacent devices under single multi-gang wall plates. 3. Wiring devices shall be manufactured by Pass and Seymour, Leviton, Hubbell, or General Electric.
- 1. Ground fault interrupting (GFI) receptacles shall be feed-through type arranged to protect connected downstream receptacles on same circuit. Receptacles serving owner furnished equipment shall have configuration to match that of equipment plug.
- C. SWITCHES Snap switches shall be specification grade, quiet type, single pole, two pole, or three-way to suit connections

D. DEVICE COLOR - Color shall be white unless otherwise indicated or required by code.

B. RECEPTACLES - Duplex receptacles shall be specification grade 20 ampere, 120 volt.

- E. WALL PLATES Plates shall be smooth finish plastic in single and combination types to match corresponding wiring devices. Match color of associated device(s).
- 1. Weatherproof plates in wet locations: Self closing transparent cover, lockable weatherproof enclosure, the integrity of which is not affected when the attachment plug cap is inserted. Equal to Cooper Wiring Devices Weatherbox.

#### SECTION 262816 - ENCLOSED SWITCHES

- A. ENCLOSED SWITCHES Enclosed switches shall be heavy-duty grade with lockable handle. Switches shall be non-fusible unless otherwise indicated and shall have clips to accommodate fuse sizes indicated on the drawings.
- 1. Exterior mounted switches shall be NEMA 3R rated and shall be bolted closed.
- 2. Cartridge fuses shall be class dual-element time delay, Class "RK-1" Bussman low peak. Equivalent fuses as manufacturered by Gould Shawmut, littlefuse, or GE are acceptable. 3. Enclosed switches shall be manufactured by Cutler-Hammer, General Electric, Siemens, or Square D.
- SECTION 265100 LIGHTING
- A. LUMINAIRE AND FIXTURE COMPONENTS All metal parts and components shall be free from burrs, sharp corners, and edges. All fixtures shall be shipped pre-wired and ready for mounting.
- 1. Doors, frames, and other internal access mechanisms shall be smooth operating, free from light leakage under operating conditions, and arranged to permit relamping without use of tools.
- B. EMERGENCY POWER SUPPLY UNIT Unit shall be a self-contained, modular, battery-inverter unit factory mounted within fixture body, 1100 lumen output minimum.
- 1. Fixture shall be provided with a test switch and light-emitting diode indicator light which is visible and
- accessible without opening fixture or entering ceiling space. 2. Battery shall be a sealed, maintenance-free, nickel-cadmium type with minimum 5-year nominal life with
- fully automatic, solid-state, constant-current type charger. 3. Relay shall automatically energize lamp or LEDs from unit when normal supply circuit voltage drops to
- 80 percent of nominal voltage or below. When normal voltage is restored, relay disconnects lamp, and battery is automatically recharged and floated on charger.
- C. LED LIGHT SOURCE REQUIREMENTS:
- 1. Rated life (L70): Minimum 50,000 hours as defined by IES LM80 and TM21. 2. Color Rendering Index (CRI): 80 CRI minimum.
- 3. Each luminaire type shall be binned within a three-step MacAdam Ellipse to ensure color consistency among luminaires.
- D. LED DRIVER REQUIREMENTS:
- 1. 0-10V Dimming.
- 2. Total Harmonic Distortion Rating: Less than 20 percent. 3. Ambient Temperature Rating: -40° to + 55° C.
- 4. Power Factor (100% output): >0.95
- E. WARRANTY Include labor allowance required for replacement on-site at no extra cost to Owner within 1year construction warranty. Transfer remainder of the manufacturer's warranty, including ballast manufacturer's labor stipend to owner after 1-year construction warranty.
- 1. Ballast and Drivers: 5-year replacement warranty. 2. LED system Warranty: 5-year replacement warranty.
- F. FINISHES Luminaire finishes shall be manufacturer's standard, unless otherwise indicated. Painted finishes shall be applied over corrosion-resistant treatment or primer, free of defects. Metallic finishes shall be corrosion resistant
- G. INSTALLATION Luminaires shall be set level, plumb, and square with ceiling and walls, and secured according to manufacturer's written instructions and approved submittal materials.
- SECTION 265200 LIGHTING CONTROL
- A. OCCUPANCY SENSORS Sensor adapts or "learns" patterns of use specific to controlled space to reduce false switching.
- 1. Ceiling Sensors: Dual technology with infrared and microphonic or ultrasonic 32 kHz or 40 kHz sensors integrated into one housing. 360 degree field of view with a minimum coverage of 20 foot radius at 9' mounting height, with sensor centered in coverage area. Sensor shall mount tight to ceiling surface and shall have a white finish. Provide associated power packs for sensor power and load switching relays.
- Sensorswitch CM PDT 10 or equivalent by Hubbell or Wattstopper. 2. Wall Box Sensors: Passive dual technology with 180 degree adjustable field of view capable of sensing small motion to20' when mounted at 4'. Pushbutton on sensor face provides manual on/manual off load control, load may be manually turned on or off at any time. Mount in wall box with decorator style faceplate. Integral switch in sensor housing shall be rated for 800W ballast or incandescent load at 120V, 1200W ballast load at 277V, and 1/4 hp motor load at 120V. Sensorswitch WSX PDT or equivalent by Hubbell or Wattstopper.
- 3. Adjust occupancy sensors tailored to actual use conditions of controlled space. Make adjustments before and after Owner has occupied space.
- B. COLOR See Section 262726 Wiring Devices.
- C. WARRANTY Manufacturer and Installer agree to repair or replace devices that fail in materials or

workmanship within two years from date of substantial completion.

- D. MANUFACTURERS
- Lighting control system shall be manufactured by SensorSwitch, Wattstopper or Leviton.

#### GENERAL RESIDENTIAL UNITS TYPICAL NOTES

- 1. CONNECT RECEPTACLE SERVING DWELLING UNIT REFRIGERATOR TO ONE OF THE SMALL-APPLIANCE CIRCUITS. PROTECTED BY UPSTREAM GFI DEVICE. DO NOT PROVIDE GFI RECEPTACLE FOR REFRIGERATOR.
- 2. MINIMUM SIZE FOR BRANCH CIRCUIT CONDUITS SHALL BE 1/2".
- 3. UNITS INDICATED ARE TYPICAL. COORDINATE RECEPTACLE LOCATIONS WITH ACTUAL FIELD MEASUREMENTS TO COMPLY WITH NEC SPACING REQUIREMENTS. VERIFY KITCHEN APPLIANCE LOCATIONS WITH OWNER AND ADJUST ACCORDINGLY.
- PROVIDE 'AFCI' TYPE CIRCUIT BREAKER OR DEVICE (WHERE NEUTRALS ARE SHARED) FOR ALL 120 VOLT, SINGLE PHASE 15- AND 20-AMPERE BRANCH CIRCUITS AS REQUIRED BY NEC.
- . PROVIDE 'GFCI' TYPE RECEPTACLES FOR ALL 120 VOLT, SINGLE PHASE, 15- AND 20-AMPERE RECEPTACLES PER NEC 210.8. PROVIDE 'GFCI' TYPE RECEPTACLES FOR ALL RECEPTACLES INSTALLED WITHIN 6'-0" OF WATER, PER NEC 210.8.A.9.
- PROVIDE TAMPER RESISTANT RECEPTACLES PER NEC 406.12. TAMPER RESISTANT RECEPTACLES ARE NOT INDICATED ON THE DRAWINGS.
- 7. MINIMUM SIZE FOR BRANCH CIRCUIT WIRING SHALL BE #12 AWG FOR 20 AMP CIRCUITS AND #14 FOR 15 AMP CIRCUITS.
- 8. COORDINATE FINAL DEVICE AND FIXTURE ROUGH-IN LOCATIONS WITH OWNER. ANY INSTALLATION DEVIATION BETWEEN DRAWINGS AND ACTUAL LOCATIONS SHALL BE COORDINATED WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 9. ALL KITCHEN RECEPTACLES SHALL BE GFI TYPE PER NEC 210.8.
- 10. VERIFY RECEPTACLE MOUNTING HEIGHTS WITH FINAL CASEWORK AND UNIT FINISH DRAWINGS.
- 11. VERIFY FINAL LOCATION OF WASHER/DRYER PRIOR TO ROUGH-IN. COORDINATE WITH GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR.
- 12. GANG ADJACENT DEVICES WHERE POSSIBLE.
- 13. SEE "APARTMENT UNIT ELECTRICAL SYMBOLS" ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 14. DO NOT MOUNT DEVICES BACK-TO-BACK.
- 15. SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF AN HVAC DIFFUSER OR RETURN AIR GRILLE PER NFPA 72.
- 16. ALTERNATE KITCHEN SMALL APPLIANCE RECEPTACLE CIRCUITS BETWEEN TWO BRANCH CIRCUITS INDICATED PER OMAHA MUNICIPAL CODE.
- . PROVIDE COMBINATION 'AFCI/GFCI' TYPE BREAKERS FOR ALL 120 VOLT, SINGLE PHASE, 15-AND 20-AMPERE RECEPTACLES PER NEC 210.8 AND 210.12 WHERE RECEPTACLE IS NON-ACCESSIBLE.

## SECTION 268100 - FIRE ALARM

- control panel as required by new work.]
- after initiating devices are restored to normal.
- transmitter and telephone lines
- Notification-appliance operation.
- Transmission of an alarm signal to the remote alarm receiving station.
- Release of fire and smoke doors held open by magnetic door holders.
- for review.
- components and to allow ample gutter space for field wiring and interconnecting panels.
- has a different sound.
- system reset switch, LED test switch.

- power fails.
- initiated.
- 1. Listed and labeled under UL 864 and NFPA 72. reauirements
- settinas.
- mounting assembly.

deficiencies.

A. GENERAL - Noncoded, zoned system with manual and automatic alarm initiation; and hard-wired for signal transmission, using separate individual circuits for each zone of alarm initiation and notification appliances. [All new devices shall be connected to the existing addressable fire alarm control panel located as shown on the drawings. All new devices shall be compatible with the existing control equipment. The existing fire alarm system shall remain functional throughout construction. Any required outages shall be coordinated with the fire marshal and owner. Provide panel modifications and programming at the existing fire alarm

B. FUNCTIONAL DESCRIPTION OF SYSTEM - System shall automatically detect and report open circuits, shorts, and grounds of wiring for initiating device, signaling line, and notification-appliance circuits. All zones shall be manually resettable from the FACP

1. Automatically route alarm, supervisory, and trouble signals to a remote alarm station by means of a digital alarm communicator 2. Loss of primary power at the FACP initiates a trouble signal at the FACP. The FACP indicates when the fire alarm system is

operating on the secondary power supply. 3. Unless otherwise indicated, operation of a manual station, automatic alarm operation of a smoke or flame or heat detector, or operation of a sprinkler flow device in public spaces initiates the following:

Identification at the FACP of the zone originating the alarm.

4. Silencing-switch operation halts alarm operation of notification appliances and activates an "alarm silence" light. Display of identity of the alarm zone or device is retained. Subsequent alarm signals from other devices or zones reactivate notification appliances until silencing switch is operated again.

5. Sprinkler valve-tamper switch operation initiates a supervisory, audible, and visible "valve-tamper" signal indication at the

C. SUBMISSIONS TO AUTHORITIES HAVING JURISDICTION - Submit to authorities having jurisdiction. Include copies of annotated Contract Drawings as needed to depict component locations to facilitate review. Resubmit if required to make clarifications or revisions to obtain approval. On receipt of comments from authorities having jurisdiction, submit them to Engineer

D. CONTROL PANEL - Cabinet shall be flush [surface] mounted steel with lockable cover. Arrange interior components so operations required for testing or for normal maintenance of the system are performed from the front of the enclosure. If more than one unit is required to form a complete control panel, fabricate with matching modular unit enclosure to accommodate

1. Alarm and Supervisory Systems: Separate and independent in the FACP. Alarm-initiating zone boards consist of plug-in cards. Construction requiring removal of field wiring for module replacement is unacceptable. 2. Indications: Local, visible, and audible signals announce alarm, supervisory, and trouble conditions. Each type of audible alarm

3. Indicating Lights and System Controls: Individual LED devices identify zones transmitting signals. Zone lights distinguish between alarm and trouble signals, and indicate the type of device originating the signal. Manual switches and push-to-test buttons do not require a key to operate. Controls shall include the following: Alarm acknowledge switch, alarm silence switch,

4. Instructions: Printed or typewritten instruction card mounted behind a plastic or glass cover in a stainless-steel or aluminum frame. Include interpretation and describe appropriate response for displays and signals. Briefly describe the functional

operation of the system under normal, alarm, and trouble conditions. 5. Secondary power supply: Components include valve-regulated, recombinant lead acid battery; charger; and an automatic transfer switch. Battery nominal life expectancy shall be 10 years, minimum.

6. Battery Charger: Solid-state, fully automatic, variable-charging-rate type. Provide capacity for 150 percent of the connected system load while maintaining batteries at full charge. If batteries are fully discharged, the charger recharges them completely within four hours. Charger output is supervised as part of system power supply supervision Integral Automatic Transfer Switch: Transfers the load to the battery without loss of signals or status indications when normal

E. Digital Alarm Communicator Transmitter: Unit receives an alarm, supervisory, or trouble signal from the FACP panel, and automatically captures one or two telephone lines and dials a preset number for a remote central station. When contact is made with the central station(s), the signal is transmitted. The unit supervises up to two telephone lines. Where supervising two lines, if service on either line is interrupted for longer than 45 seconds, the unit initiates a local trouble signal and transmits a signal indicating loss of telephone line to the remote alarm receiving station over the remaining line. When telephone service is restored, unit automatically reports that event to the central station. If service is lost on both telephone lines, the local trouble signal is

2. Unit shall include integral rechargeable battery and automatic charger. Battery capacity is adequate to comply with NFPA 72

3. Self Test: Conducted automatically every 24 hours with report transmitted to central station.

F. SMOKE DETECTORS - Smoke detectors shall be photoelectric type with integral LED indicating light and adjustable sensitivity

1. Duct smoke detector shall be ionization type with sampling tube sized as recommended by the manufacturer for the specific duct size, air velocity, and installation conditions where applied. 2. Provide fan shutdown relay(s) rated to interrupt fan motor-control circuit where required.

G. NOTIFICATION APPLIANCES - Devices shall be combination type with factory-integrated audible and visible devices in a single-

1. Audible alarm device shall be electric-vibrating-polarized type horn with provision for housing the operating mechanism behind a grille. Horns produce a sound-pressure level of 90 dB, measured 10 feet from the horn. 2. Visible alarm devices shall be xenon strobe lights listed under UL 1971 with clear or nominal white polycarbonate lens. The word "FIRE" shall be engraved in minimum 1-inch high letters on the lens. Unit candela output shall meet the strobe layout. 3. Notification devices shall be mounted at 82" A.F.F. or 6" below finished ceiling whichever is lower.

H. WIRE - wiring shall be as follows unless otherwise recommended by the manufacturer or required by the authority having

Non-Power-Limited Circuits: Solid-copper conductors with 600-V rated, 75 deg C, color-coded insulation.

Low-Voltage Circuits: No. 16 AWG, minimum.

Line-Voltage Circuits: No. 12 AWG, minimum

Power-Limited Circuits: NFPA 70, Types FPL, FPLR, or FPLP, as recommended by manufacturer.

1. Fire alarm wiring shall be installed in raceway. Conceal raceway except in unfinished spaces and as indicated.

I. INTERCONNECTION TO OTHER SYSTEMS

1. Alarm Indicating: Provide 18/2 cables in 3/4" conduit as required for alarm and trouble contacts in fire alarm control panel to security panel. Coordinate with Security Contractor.

2. Alarm Transmitting: Provide CAT 3 telephone cables in 3/4" conduit as required from Digital Alarm Transmitter in fire alarm control panel to telephone board.

## 3. Damper control: Provide all necessary wiring to smoke dampers.

4. Access/Security Control: Provide a relay for each electrically locked exit door. Connect so relay will interrupt power to the locking device under alarm condition

J. MANUFACTURERS - Subject to compliance with requirements, provide products by one of the following: Cerberus Pyrotronics, Edwards Systems Technology, Notifier, Simplex.

K. FIELD SERVICE AND TESTING - Engage a factory-authorized service representative to inspect field-assembled components and connections and to supervise pretesting, testing, and adjustment of the system. Report results in writing. Test the system according to procedures outlined in NFPA 72. Correct deficiencies indicated by tests and completely retest work affected by such

1. Occupancy Adjustments: When requested within one year of date of Substantial Completion, provide on-site assistance in adjusting sound levels, controls, and sensitivities to suit actual occupied conditions. Provide up to two requested visits to Project site for this purpose.

MEI PROJECT NO: 24030

**morrissey engineering** inc mechanical | electrical | lighting | technology | sustainability 4940 North 118th Street Omaha, NE 68164 P: 402.491.4144 Nebraska COA Number: CA-0835 www.morrisseyengineering.com

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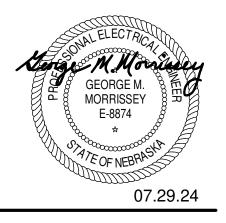
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes

and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.



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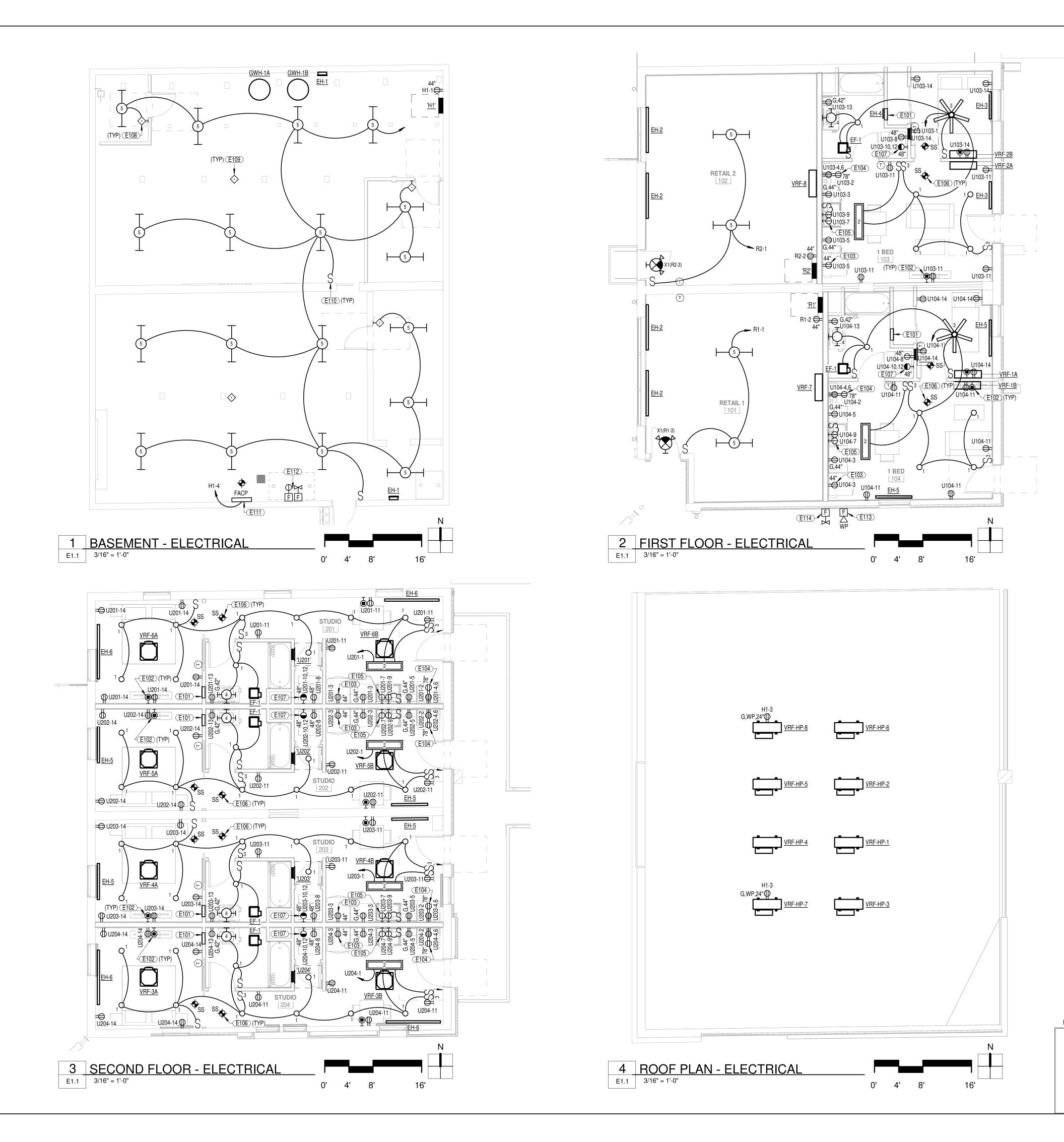
Revisions

Project No. | 23042 Issue Date | 07.29.24



Sheet No





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### **GENERAL NOTES:**

1. SEE ELECTRICAL COVER SHEET E0.0 FOR ELECTRICAL GENERAL NOTES.

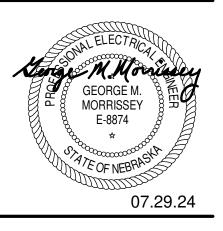
### <u>KEYNOTES</u>

- E101 PROVIDE TELEPHONE/CATV TERMINAL BOX, SUTTLE SOHO ACCESS ENCLOSURE #MXE-15E-1G2 (OR APPROVED EQUAL). INSTALL FLUSH IN WALL AT 36" AFF. PROVIDE DUPLEX RECEPTACLE INSIDE CABINET AND CIRCUIT TO NEAREST HALLWAY RECEPTACLE CIRCUIT. PROVIDE 1-1/4" CONDUIT CONCEALED TO COMMUNICATIONS BOARD IN BASEMENT.
   E102 PROVIDE SINGLE GANG CADDY RING FOR DATA ROUGH-IN. SEE DETAIL 4/E2.0
- FOR ADDITIONAL INFORMATION. E103 RECEPTACLE SHALL BE CONNECTED AS FEED-THRU FROM ADJACENT GFCI.
- E104 RECEPTACLE FOR MICROWAVE OR OTR HOOD. VERIFY EXACT MOUNTING HEIGHT WITH CABINETS AND APPLIANCES.
- E105 RECEPTACLE FOR DISHWASHER. SEE DETAIL 3/E2.0 FOR MORE INFORMATION. PRIOR TO ROUGH IN, COORDINATE LOCATION OF RECEPTACLE AND CONDUIT WITH GENERAL CONTRACTOR AND OTHER TRADES TO AVOID CONFLICTS BETWEEN ELECTRICAL AND PLUMBING WORK.
- E106 PROVIDE SYSTEM SMOKE DETECTORS WITHIN APARTMENT UNIT WITH LOW FREQUENCY SOUNDER BASE (SEE SPECIFICATIONS). INTERLOCK DETECTORS WITHIN UNIT PER NFPA REQUIREMENTS. CONNECT FAN COIL UNIT AND RESTROOM EXHAUST FAN TO AUXILIARY CONTACTS TO SHUT DOWN IN THE EVENT OF ALARM CONDITION IN RESPECTIVE UNIT.
- E107 PROVIDE 120V POWER CONNECTION TO IN-LINE CLOTHES DRYER BOOSTER FAN WHERE REQUIRED. VERIFY FAN LOCATION WITH MECHANICAL CONTRACTOR. PROVIDE SINGLE POLE TOGGLE SWITCH DISCONNECT AT FAN, COORDINATE SWITCH AND FAN ACCESS MEANS WITH GENERAL CONTRACTOR.
- E108 PROVIDE LINE VOLTAGE WALL BOX OCCUPANCY SENSOR SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- E109 PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR SEE SPECIFICATIONS. ROUTE CIRCUIT THROUGH NEW POWER PACK WITH AUXILIARY RELAYS, CONTROLLED BY NEW OCCUPANCY SENSOR(S). PROVIDE AUXILIARY POWER PACKS AS REQUIRED.
- E110 CONNECT SWITCH DOWNSTREAM OF OCCUPANCY SENSORS. SWITCH SHALL SERVE AS MANUAL SHUTOFF ONLY.
- E111 PROVIDE NEW ADDRESSABLE FIRE ALARM CONTROL PANEL SEE SPECIFICATIONS. PROVIDE LOCKABLE CIRCUIT BREAKER.
- E112 PROVIDE FIRE ALARM CONNECTION TO FLOW AND TAMPER SWITCHES AT FIRE ALARM RISER. COORDINATE LOCATION AND QUANTITY OF SWITCHES REQUIRED WITH FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH IN.
   E113 PROVIDE NOTIFICATION APPLIANCE ABOVE FIRE DEPARTMENT CONNECTION.
- COORDINATE LOCATION WITH FIRE MARSHAL AND FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH IN. E114 PROVIDE FIRE ALARM CONNECTION TO TAMPER SWITCH AT POST INDICATOR
- VALVE. USE RGS CONDUIT ABOVE GRADE. COORDINATE LOCATION WITH FIRE SPRINKLER CONTRACTOR AND CIVIL SITE DRAWINGS PRIOR TO ROUGH IN.



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RALSTON APARTMENT RENOVATIONS5617 S 77TH STFalston, NE 68127

Revisions |

Project No. | 23042 Issue Date | 07.29.24



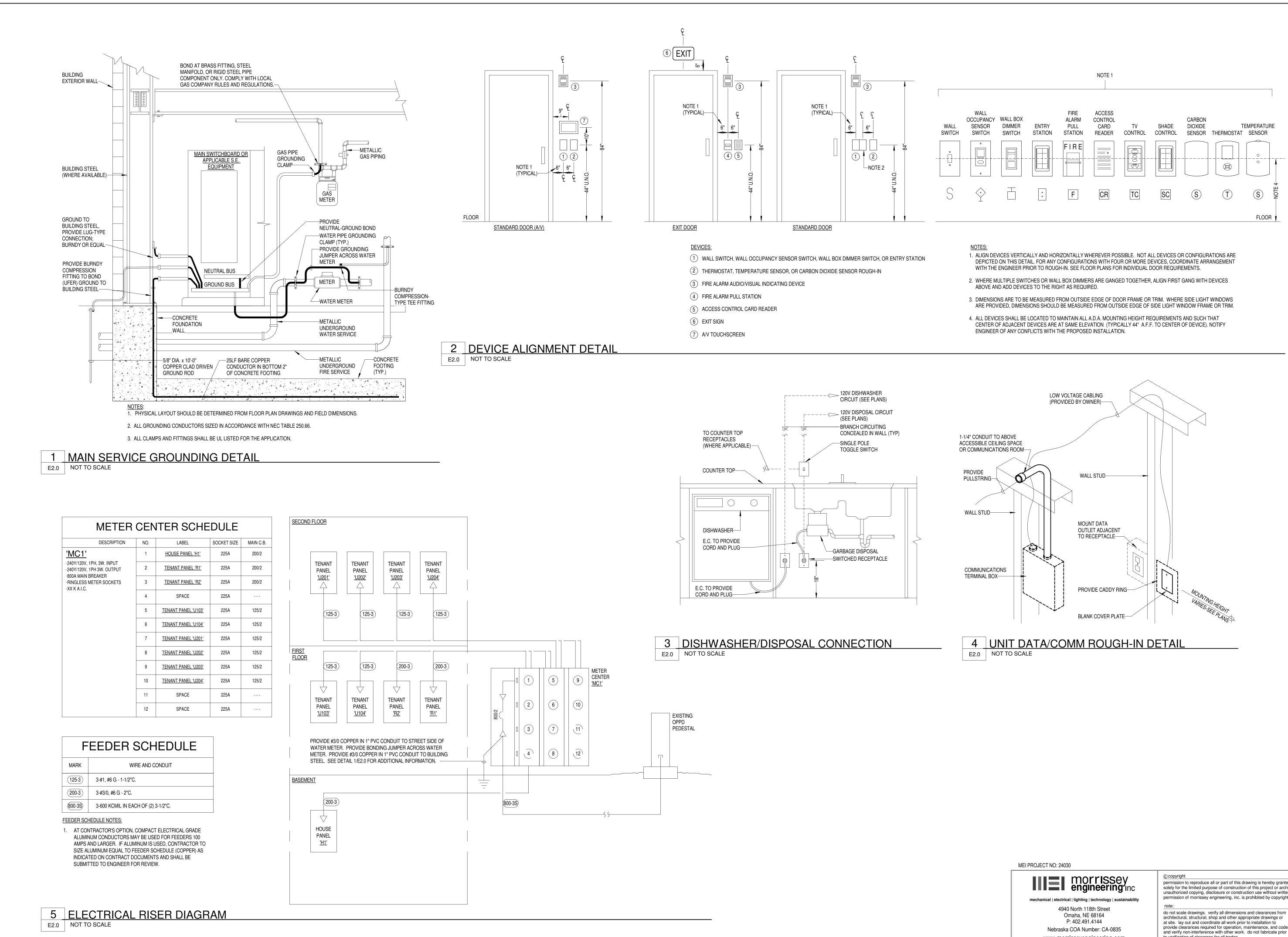
MEI PROJECT NO: 24030



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

Sheet No. | E1.1



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provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.





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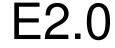
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Revisions

Project No. | 23042 Issue Date | 07.29.24

# ELECTRICAL **DETAILS &** RISER

Sheet No. |



		υU		30	n				<u> </u>	AU	LO	
Panel: U202	)/240	<b>e:</b> 120	oltag	1							<b>I:</b> U201	Panel:
Rating: 125		<b>e:</b> 1	Phas								<b>j:</b> 125 A	Rating:
Mounting: REC		<b>e:</b> 3	Wir								: RECESSED	Mounting:
Type: MLC	RIES RATED WITH STREAM OVERCURRENT OTECTIVE DEVICE	UP	Ratin	A.I.C.						BAR	e: MLO W/GND. E	Туре:
Circuit Descript	<b>Circuit Description</b>	ОРТ	R	CKT F	в	Α	скт	Р	R	OPT	escription	Circuit Des
EF-1	REC - MICROWAVE	G	20	2 1			1	1	20			EF-1
REC - KITCHEN	RANGE		50	4 2			3	1	20			REC - KITCHEN
REC - KITCHEN				6 2			5	1	20			REC - KITCHEN
REC - DISHWASHER	REC - WASHER	G	20	8 1			7	1	20	G		REC - DISHWASH
REC - DISPOSAL	DRYER		30	10 2			9	1	20	G		REC - DISPOSAL
REC - LIVING ROOM				12			11	1	20			REC - LIVING ROO
REC - BATHROOM	REC - BEDROOM		20	14 1			13	1	20		MC	REC - BATHROON
VRF-5A / 5B	VRF-HP-6		40	16 18 2			15 17	2	15			VRF-6B
EH-5	SPACE			20 1			19	2	20			EH-6
L11-5	SPACE			22 1			21	2	20			
	SPACE			24 1			23	2	20			EH-6
	SPACE			26 1			25		20			
SPACE	SPACE			28 1			27	1				SPACE
SPACE	SPACE			30   1			29	1				SPACE
Options:												Options:
G – GFCI type circuit br	e circuit breaker. reaker.									aker.		G – GFCI type circ L – Locking handle
L – Locking handle type											•••	Notes:

Panel:	
Rating: 2	2
Mounting:	
Type:	
Integral SPD: 1	
Circuit Desc	;
REC - BASEMENT	
REC - ROOF	
SPARE	
SPACE	
SPACE SPACE	
SPACE	
SPACE	-
SPACE	-
Options:	-
-	
G – GFCI type circu	
L – Locking handle	t
Notes:	

## LOAD CENTER SCHEDULE

Panel: U103

Rating: 125 A

Mounting: RECESSED

Type: MLO W/GND. BAR

Voltage: 120/240 Phase: 1 Wire: 3

A.I.C. Rating:	SERIES RATED WITH
3	UPSTREAM OVERCURRENT
	PROTECTIVE DEVICE

			-					-			
Circuit Description	ОРТ	R	P	скт	A	в	скт	Р	R	ОРТ	Circuit Description
LTG - GENERAL		20	1	1			2	1	20	G	REC - MICROWAVE
REC - KITCHEN		20	1	3			4	2	50		BANGE
REC - KITCHEN		20	1	5			6	2	50		RANGE
REC - DISHWASHER	G	20	1	7			8	1	20	G	REC - WASHER
REC - DISPOSAL	G	20	1	9			10	2	30		DRYER
REC - LIVING ROOM		20	1	11			12	2	30		
REC - BATHROOM		20	1	13			14	1	20		REC - BEDROOM
VRF-2A / 2B		15	2	15			16	2	40		VRF-HP-2
		15	2	17			18	2	40		
EH-3		15	2	19			20	1			SPACE
L11-5		15	2	21			22	1			SPACE
EH-3		15	2	23			24	1			SPACE
L11-5		15	2	25			26	1			SPACE
EH-4		15	2	27			28	1			SPACE
		15	2	29			30	1			SPACE
Options:											
G – GFCI type circuit breaker.											be circuit breaker.
L - Locking handle type circuit brea	aker.						N -	- N	ew c	ircuit b	reaker.
Notes:											

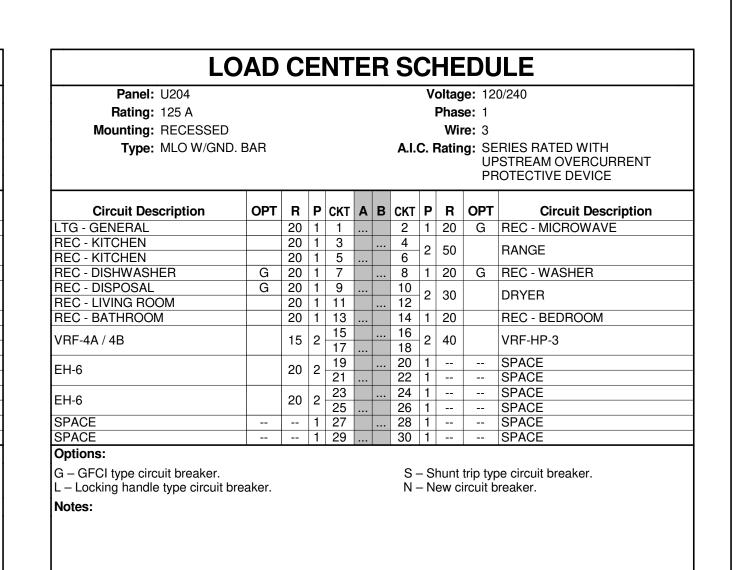
<b>el:</b> U202								V	oltag	<b>je:</b> 12	0/240	
<b>1g:</b> 125 A									Phas	se: 1		
ng: RECESSED									Wi	r <b>e:</b> 3		
e: MLO W/GND. BAR A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE												
Description	OPT	R	Р	скт	Α	в	СКТ	Р	R	ОРТ	Circuit Description	
		20	1	1			2	1	20	G	REC - MICROWAVE	
N		20	1	3			4	2	50		BANGE	
N		20	1	5			6					
SHER	G	20	1	7			8	1	20	G	REC - WASHER	
AL	G	20	1	9			10	2	30		DRYER	
ROOM		20	1	11			12					
MOC	_	20	1	13	•••		14	1	20		REC - BEDROOM	
		15	2	15 17			16 18	2	40		VRF-HP-5	
		15	2	19			20	1			SPACE	
		15	~	21			22	1			SPACE	
		15	2	23			24	1			SPACE	
		10		25			26	1			SPACE	
			1	27			28	1			SPACE	
			1	29			30	1			SPACE	

LO	AD	С	E	NT	Έ	R	S	CI	HE	DL	ILE			
Panel: U203								V	oltag	<b>je:</b> 12	0/240			
Rating: 125 A									Phas	se: 1				
Mounting: RECESSED									Wi	r <b>e:</b> 3				
Type: MLO W/GND. BAR       A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE														
Circuit Description	OPT	R	Р	скт	A	в	скт	Р	R	ОРТ	Circuit Description			
LTG - GENERAL		20	1	1			2	1	20	G	REC - MICROWAVE			
REC - KITCHEN		20	1	3			4	2	50		BANGE			
REC - KITCHEN		20	1	5			6	2						
REC - DISHWASHER	G	20	1	7			8	1	20	G	REC - WASHER			
REC - DISPOSAL	G	20	1	9			10	2	30		DRYER			
REC - LIVING ROOM		20	1	11			12							
REC - BATHROOM		20	1	13			14	1	20		REC - BEDROOM			
VRF-4A / 4B		15	2	15			16	1			SPACE			
			Ľ	17			18	1			SPACE			
VRF-HP-4		40	2	19				1			SPACE			
			-	21			22	1			SPACE			
EH-5		15	2	23			24	1			SPACE			
		10	-	25			26	1			SPACE			
EH-5		15	2	27			28	1			SPACE			
-		10	-	29			30	1			SPACE			
Options: G – GFCI type circuit breaker. L – Locking handle type circuit bre Notes:	aker.										be circuit breaker. reaker.			

1									Vo	Itage:	120/240
00 A										hase:	
URFACE									-	Wire:	
ILO W/GND.									~ ¬	-	SERIES RATED WITH
	DAN							A.I.	.с. п	aung:	UPSTREAM OVERCURRENT
0											PROTECTIVE DEVICE
iption	OPT	R	Р	скт	Α	в	СКТ	Р	R	OPT	Circuit Description
		20	1	1			2	1	20		LTG - BASEMENT
		20	1	3			4	1	20	L	FIRE ALARM PANEL
		20	1	5			6		4.5		
		20	1	7			8	2	15		EH-1
		20	1	9			10	2	15		EH-1
		20	1	11			12	2	15		
		20	1	13			14	1	20		GWH-1A
		20	1	15			16	1	20		GWH-1B
			1	17			18	1			SPACE
			1	19			20	1			SPACE
			1	21			22	1			SPACE
			1	23			24	1			SPACE
			1	25			26	1			SPACE
			1	27			28	1			SPACE
			1	29			30	1			SPACE
			1	31			32	1			SPACE
			1	33			34	1			SPACE
			1	35		•••	36	1			SPACE
			1	37 39			38	1			SPACE SPACE
			1	39 41			40 42	1			SPACE
				41			42				SFAUE

LIG	LIGHTING PANEL SCHEDULE												
Panel: R1									Vo	ltage:	120/240		
Rating: 200 A									P	hase:	1		
Mounting: SURFACE									-	Wire:			
<b>.</b>									~ ¬	-			
Integral SPD: NO											SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE		
Circuit Description	ОРТ	R	Р	скт	Α	в	скт	Р	R	ОРТ	<b>Circuit Description</b>		
LTG - GENERAL		20	1	1			2	1	20		REC - GENERAL		
LTG - EXIT SIGNS		20	1	3			4	2	15		VRF-7		
SPARE		20	1	5			6	2	15				
SPARE		20	1	7			8	2	40		VRF-HP-7		
SPARE		20	1	9			10	2	40		VHF-HF-7		
SPARE		20	1	11			12	2	15		EH-2		
SPARE		20	1	13			14	2	15				
SPARE		20	1	15			16	2	15		EH-2		
SPACE			1	17			18	2	15				
SPACE			1	19			20	1			SPACE		
SPACE			1	21			22	1			SPACE		
SPACE			1	23			24	1			SPACE		
SPACE			1	25			26	1			SPACE		
SPACE			1	27			28	1			SPACE		
SPACE			1	29			30	1			SPACE		
SPACE			1	31			32	1			SPACE		
SPACE			1	33			34	1			SPACE		
SPACE			1	35			36	1			SPACE		
SPACE			1	37			38	1			SPACE		
SPACE			1	39			40	1			SPACE		
SPACE			1	41			42	1			SPACE		
Options:													
G – GFCI type circuit breaker.						S-	– Shu	int	trip ty	vpe circ	cuit breaker.		
L - Locking handle type circuit bre	eaker.												
Nataa													

Panel: U104								V	oltag	<b>je:</b> 12	0/240			
Rating: 125 A	Phase: 1													
Mounting: RECESSED			<b>Wire:</b> 3											
Type: MLO W/GND.	BAR						A.I.(	C. I		ig: SE UF	RIES RATED WITH PSTREAM OVERCURRENT ROTECTIVE DEVICE			
<b>Circuit Description</b>	ОРТ	R	Р	скт	Α	в	скт	Р	R	ОРТ	Circuit Description			
LTG - GENERAL		20	1	1			2	1	20	G	REC - MICROWAVE			
REC - KITCHEN		20	1	3			4	2	50		RANGE			
REC - KITCHEN		20	1	5			6							
REC - DISHWASHER	G	20	1	7			8	1	20	G	REC - WASHER			
REC - DISPOSAL	G	20	1	9			10	2	30		DRYER			
REC - LIVING ROOM		20	1	11			12							
REC - BATHROOM		20	1	13			14	1	20		REC - BEDROOM			
VRF-1A / 1B		15	2	15 17			16 18	2	40		VRF-HP-1			
EH-5		15	2	19			20	1			SPACE			
ЕП-Э		15	2	21			22	1			SPACE			
EH-5		15	2	23			24	1			SPACE			
ЕП-Э		15	2	25			26	1			SPACE			
SPACE			1	27			28	1			SPACE			
SPACE			1	29			30	1			SPACE			



Panel: R2 Rating: 200 A Mounting: SURFACE					Voltage: 120/240 Phase: 1 Wire: 3 A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE										
Type: MLO W/GNI Integral SPD: NO	d. Bar														
Circuit Description	ОРТ	R	Р	скт	Α	в	скт	Р	R	ОРТ	Circuit Description				
TG - GENERAL		20	1	1			2	1	20		REC - GENERAL				
LTG - EXIT SIGNS		20	1	3			4	2	15		VBE 8				
SPARE		20	1	5			6	12	15		VRF-8				
SPARE		20	1	7			8	2	40						
SPARE		20	1	9			10	2	40		VRF-HP-8				
SPARE		20	1	11			12	2	00		ELL O				
SPARE		20	1	13			14	2	20		EH-2				
SPARE		20	1	15			16	2	00		ELL O				
SPACE			1	17			18	2	20		EH-2				
SPACE			1	19			20	1			SPACE				
SPACE			1	21			22	1			SPACE				
SPACE			1	23			24	1			SPACE				
SPACE			1	25			26	1			SPACE				
SPACE			1	27			28	1			SPACE				
SPACE			1	29			30	1			SPACE				
SPACE			1	31			32	1			SPACE				
SPACE			1	33			34	1			SPACE				
SPACE			1	35			36	1			SPACE				
SPACE			1	37			38	1			SPACE				
SPACE			1	39			40	1			SPACE				
SPACE			1	41			42	1			SPACE				
<b>Options:</b> G – GFCI type circuit breaker. L – Locking handle type circuit I <b>Notes:</b>	oreaker.					S -	- Shu	int 1	trip ty	pe ciro	cuit breaker.				



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provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.



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07.29.24

RALSTON APARTMENT RENOVATIONS 5617 S 77TH ST RALSTON, NE 68127

Revisions |

Project No. | 23042 Issue Date | 07.29.24



Sheet No. | E3.0

	LUMINAIRE SCHEDULE												
				LIG	IT SOURCE		ELECT	RICAL			ACCEPTABLE		
MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	SPEC.	ССТ	TYPE	LOAD	VOLTS	FINISH	MOUNTING	MANUFACTURERS	REMARKS	
1	SLIM SURFACE	JUNO	JSF 5IN 07LM 30K 90CRI MVOLT ZT WH - JSFTRIM 5IN XX	700 LM	3000 K	LED	10 W	120 V	TBD	SURFACE / CEILING	NOTE 1		
2	1x4 TROFFER	LITHONIA	EPANL 1X4 4800LM 80CRI 30K MIN10 ZT MVOLT	4,800 LM	3500 K	LED	45 W	120 V	WHITE	RECESSED	NOTE 1		
3	48" CEILING FAN	TBD	TBD	-	-	-	0 W	120 V	TBD	SURFACE / CEILING			
4	VANITY LIGHT	LITHONIA	FMVCSL 24IN MVOLT 30K 90CRI BN	1,300 LM	3000 K	LED	18 W	120 V	SATIN NICKEL	WALL			
5	4' LED STRIPLIGHT	LITHONIA	ZL1D L48 5000LM FST MVOLT 35K	5,000 LM	3500 K	LED	41 W	120 V	WHITE	SUSPENDED	NOTE 1		
X1	SINGLE FACE EXIT SIGN	COMPASS	CU2	FURN. W/ LUMINAIRE	FURN. W/ LUMINAIRE	LED	2 W	120 V	WHITE	NOTE 2	NOTE 1	W/ EMERG. BATTERY	

GENERAL REQUIREMENTS:

B. UNLESS NOTED OTHERWISE REFER TO PLANS FOR SUSPENSION LENGTHS REQUIRED FOR ALL SUSPENDED LUMINAIRES. LUMINAIRE SCHEDULE NOTES:

1. LUMINAIRE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY: ACUITY BRANDS, COOPER, CURRENT, SIGNIFY, CREE LIGHTING.

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A. CONTRACTOR SHALL VERIFY CATALOG NUMBERS AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING. NOTIFY ENGINEER OF ANY CONFLICTS WITH PROPOSED INSTALLATION.

2. REFER TO PLANS FOR MOUNTING REQUIREMENTS SUCH AS WALL MOUNT, END MOUNT, CEILING MOUNT AND PROVIDE LUMINAIRES ACCORDINGLY. PROVIDE DIRECTIONAL CHEVRON ARROWS AS INDICATED ON PLANS.

## ELECTRIC HEAT SCHEDULE

			WATTO		DUACE		
MARK	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTAGE	PHASE	LENGTH	REMARKS
EH-1	KING ELECTRIC	LPWA2445-S-TP-G	2250 VA	240 V	1		NOTES 1 AND 2
EH-2	KING ELECTRIC	LB52425	2500 VA	240 V	1		NOTES 1 AND 3
EH-3	KING ELECTRIC	LB32415	1500 VA	240 V	1		NOTES 1 AND 3
EH-4	KING ELECTRIC	LPWA2445-S-TP-G-LPWAIC	2250 VA	240 V	1		NOTES 1 AND 2
EH-5	KING ELECTRIC	LB42420	2000 VA	240 V	1		NOTES 1 AND 3
EH-6	KING ELECTRIC	LB62430	3000 VA	240 V	1		NOTES 1 AND 3

ELECTRIC HEAT SCHEDULE NOTES:

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

3. PROVIDE WITH ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION (END CAPS, PEDESTALS, ETC.).

MECHNICAL EQUIPMENT CONNECTION SCHEDULE NOTES:

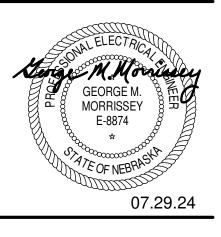
3. PROVIDE TOGGLE SWITCH RATED FOR USE WITH WATER HEATER AS DISCONNECTING MEANS.

	MEAL					
	MECH	ANICAL E	QUIPMENT	CONNEC	TION SCHEDULE	
PLAN TAG	VOLTAGE	PHASE	DISCONNECT	CIRCUIT	WIRE AND CONDUIT	REMARKS
EF-1	115 V	1	NOTE 1	U104-1	2#12,#12G-1/2"C.	
EF-1	115 V	1	NOTE 1	U204-1	2#12,#12G-1/2"C.	
EF-1	115 V	1	NOTE 1	U203-1	2#12,#12G-1/2"C.	
EF-1	115 V	1	NOTE 1	U202-1	2#12,#12G-1/2"C.	
EF-1	115 V	1	NOTE 1	U201-1	2#12,#12G-1/2"C.	
EF-1	115 V	1	NOTE 1	U103-1	2#12,#12G-1/2"C.	
EH-1	240 V	1	NOTE 1	H1-10,12	2#12,#12G-1/2"C.	
EH-1	240 V	1	NOTE 1	H1-6,8	2#12,#12G-1/2"C.	
EH-2	240 V	1	NOTE 1	R1-16,18	2#12,#12G-1/2"C.	
EH-2	240 V	1	NOTE 1	R1-12,14	2#12,#12G-1/2"C.	
EH-2	240 V	1	NOTE 1	R2-12,14	2#12,#12G-1/2"C.	
EH-2	240 V	1	NOTE 1	R2-16,18	2#12,#12G-1/2"C.	
EH-3	240 V	1	NOTE 1	U103-23,25	2#12,#12G-1/2"C.	
EH-3	240 V	1	NOTE 1	U103-19,21	2#12,#12G-1/2"C.	
EH-4	240 V	1	NOTE 1	U103-27,29	2#12,#12G-1/2"C.	
EH-5	240 V	1	NOTE 1	U104-19,21	2#12,#12G-1/2"C.	
EH-5	240 V	1	NOTE 1	U104-23,25	2#12,#12G-1/2"C.	
EH-5	240 V	1	NOTE 1	U202-19,21	2#12,#12G-1/2"C.	
EH-5	240 V	1	NOTE 1	U203-23,25	2#12,#12G-1/2"C.	
EH-5	240 V	1	NOTE 1	U202-23,25	2#12,#12G-1/2"C.	
EH-5 EH-5	240 V 240 V	1	NOTE 1	U202-23,25 U203-27,29	2#12,#12G-1/2"C.	
EH-5 EH-6		1	NOTE 1	,	,	
EH-6	240 V	1	NOTE 1	U201-23,25	2#12,#12G-1/2"C.	
EH-6	240 V 240 V	1	NOTE 1	U204-19,21	2#12,#12G-1/2"C.	
				U201-19,21	2#12,#12G-1/2"C.	
EH-6	240 V	1	NOTE 1	U204-23,25	2#12,#12G-1/2"C.	
GWH-1A	120 V	1	NOTE 3	H1-14	2#12,#12G-1/2"C.	
GWH-1B	120 V		NOTE 3	H1-16	2#12,#12G-1/2"C.	
VRF-8	240 V	1	NOTE 2	R2-4,6	2#12,#12G-1/2"C.	
VRF-7	240 V	1	NOTE 2	R1-4,6	2#12,#12G-1/2"C.	
VRF-1A	240 V	1	NOTE 2	U104-15,17	2#12,#12G-1/2"C.	
VRF-1B	240 V	1	NOTE 2	U104-15,17	2#12,#12G-1/2"C.	
VRF-2A	240 V	1	NOTE 2	U103-15,17	2#12,#12G-1/2"C.	
VRF-2B	240 V	1	NOTE 2	U103-15,17	2#12,#12G-1/2"C.	
VRF-3B	240 V	1	NOTE 2	U204-15,17	2#12,#12G-1/2"C.	
VRF-3A	240 V	1	NOTE 2	U204-15,17	2#12,#12G-1/2"C.	
VRF-4B	240 V	1	NOTE 2	U203-15,17	2#12,#12G-1/2"C.	
VRF-4A	240 V	1	NOTE 2	U203-15,17	2#12,#12G-1/2"C.	
VRF-5B	240 V	1	NOTE 2	U202-15,17	2#12,#12G-1/2"C.	
VRF-5A	240 V	1	NOTE 2	U202-15,17	2#12,#12G-1/2"C.	
VRF-6B	240 V	1	NOTE 2	U201-15,17	2#12,#12G-1/2"C.	
VRF-6A	240 V	1	NOTE 2	U201-15,17	2#12,#12G-1/2"C.	
VRF-HP-8	240 V	1	60/2,NF,3R	R2-8,10	2#8,#10G-1"C.	
VRF-HP-5	240 V	1	60/2,NF,3R	U202-16,18	2#8,#10G-1"C.	
VRF-HP-4	240 V	1	60/2,NF,3R	U203-19,21	2#8,#10G-1"C.	
VRF-HP-7	240 V	1	60/2,NF,3R	R1-8,10	2#8,#10G-1"C.	
VRF-HP-6	240 V	1	60/2,NF,3R	U201-16,18	2#8,#10G-1"C.	
VRF-HP-2	240 V	1	60/2,NF,3R	U103-16,18	2#8,#10G-1"C.	
VRF-HP-1	240 V	1	60/2,NF,3R	U104-16,18	2#8,#10G-1"C.	
VRF-HP-3	240 V	1	60/2,NF,3R	U204-16,18	2#8,#10G-1"C.	

EQUIPMENT PROVIDED WITH INTEGRAL DISCONNECT.
 PROVIDE TWO POLE, MOTOR RATED TOGGLE SWITCH AT INDOOR EQUIPMENT FOR LOCAL DISCONNECTING MEANS. PROVIDE LOW VOLTAGE CONNECTION BETWEEN INDOOR UNIT AND ASSOCIATED OUTDOOR UNIT PER MANUFACTURER'S INSTALLATION RECOMMENDATIONS.



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