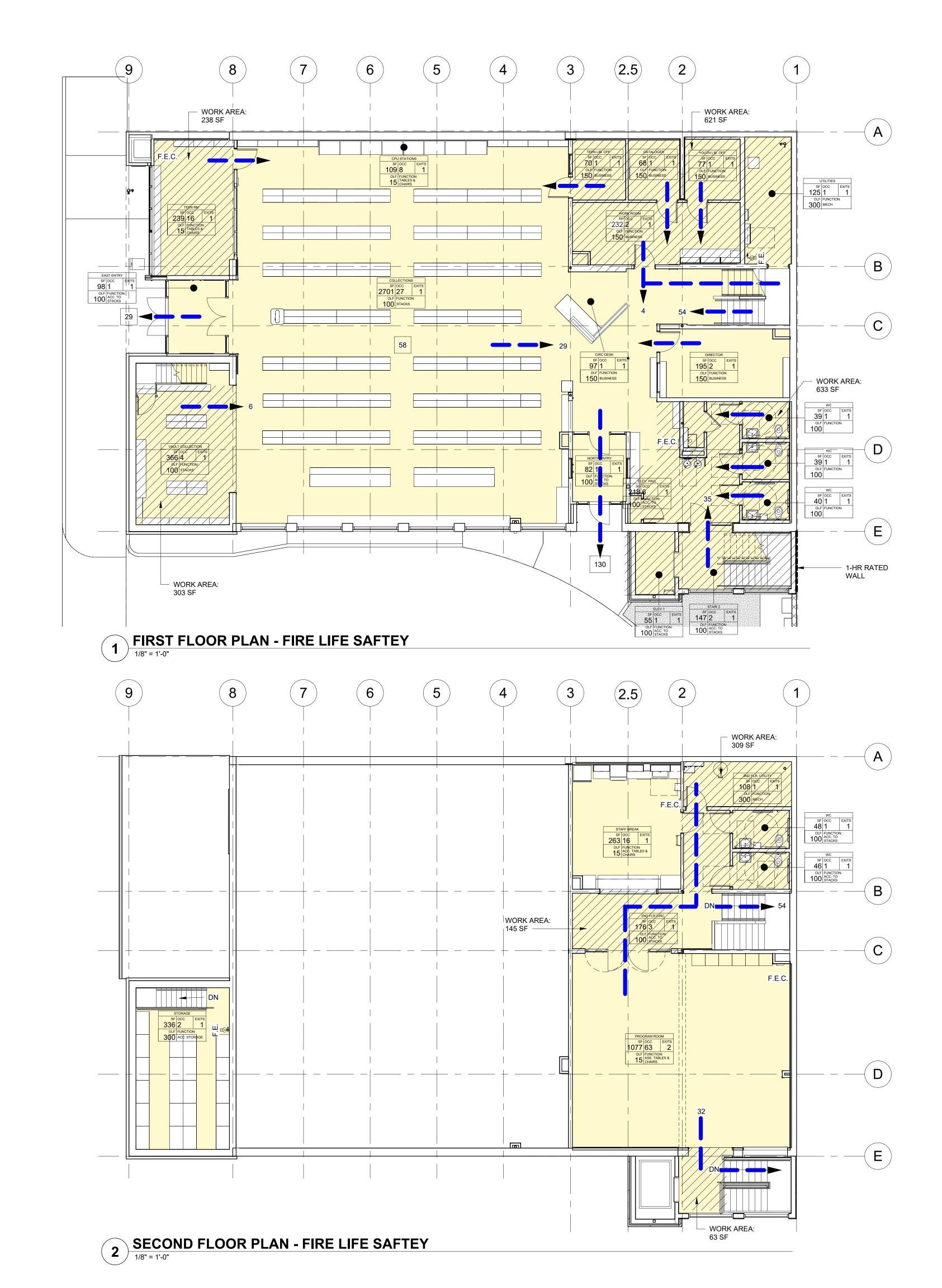


# PROJECT TEAM

# 

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	G-002 G-003	ARCHITECTURAL ABBREVIATIONS	333 S. 4TH STREET
	ARCHITE	ECTURE	COOS BAY, OR 97420 P: 541.269.1166
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	E1.0 E1.1	ELECTRICAL SITE PLAN ELECTRICAL SCHEDULES	REVISIONS:
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			DATE: JULY 2023 SHEET TITLE:
			COVER SHEET
			G-000

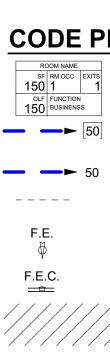


NO.	NAME	AREA	OCC.	OLF
1	EAST ENTRY	98 SF	1	100
2	COLLECTIONS	2701 SF	27	100
3	CPU STATIONS	109 SF	8	15
4	TEEN RM	239 SF	16	15
4.1	UTILITY CLOS.	7 SF		
6	VAULT COLLECTION	366 SF	4	100
7	CIRC DESK	97 SF	1	150
8	CIRC.	323 SF		
8.1	ELEV. HALL	218 SF	6	100
9	WORK ROOM	143 SF	2	150
9.1	CATALOGER	68 SF	1	150
9.2	YOUTH LIB. OFF.	77 SF	1	150
10	TEEN LIB. OFF.	70 SF	1	150
11	DIRECTOR	195 SF	2	150
12	WC	39 SF	1	100
13	WC	39 SF	1	100
14	WC	40 SF	1	100
15	NORTH ENTRY	82 SF	1	100
16	MOP CLOS.	21 SF		
17	ELEV. CONTROL CLOSET	7 SF		
20	STORAGE	336 SF	2	300
21	STAFF BREAK	263 SF	16	15
22	2ND FLR CIRC.	176 SF	3	100
22.1	2ND FLR CIRC	84 SF		
23	WC	46 SF	1	100
24	WC	48 SF	1	100
25	2ND FLR. UTILITY	108 SF	1	300
26	PROGRAM ROOM	1077 SF	63	15
B1	UTILITY	131 SF	1	300
B1	UTILITIES	125 SF	1	300
B2	STOR	20 SF		
E1	ELEV 1	55 SF	1	100
S1	STAIR 1	41 SF	1	100
S2	STAIR 2	147 SF	2	100

OCCUPANT LOAD SCHEDULE

	167		-		
LIBRARY TOTAL OCCUPANCY	107			165.0	
		Divided	l in half	82.5	
PLUMBING	FIXTURE I	LOAD /	COUNT		
	00		LOAD	TOTAL	
REQUIRED PLUMBING FIXTURES:	<b>PLUMBING FIXTURES:</b> OCCUPANTS		FACTOR *	UNITS	
Female		83	65	1.3	Toilets
Male		83	125	0.7	Toilets
		TOT	AL REQUIRED	1.9	
Female		83	200	0.4	Laves
Male		83	200	0.4	Laves
		TOT	AL REQUIRED	0.8	
		-			
Drinking Fountains - 1 per floor		2	1	2.0	DF
		тот	AL REQUIRED	2.0	
PROPOSED					

PROPOSED Urina Lavs Single Occupancy WC on the First Floor 3 Single Occupancy WC on the Second Floor 2 TOTAL PROVI Drinking Fountains - 1 per floor



#### DESCRIPTION OF WORK SUMMARY CODE PLAN LEGEND: ADAPTIVE REUSE OF A B OCCUPANCY (BANK) TO A PUBLIC LIBRARY, A-3. OCCUPANT LOAD/ EXIT THE PRIMARY STRUCTURE IS EXTERIOR CONCRETE WALLS WHICH SUPPORT FLAT PARALLEL CORD TRUSSES (PRATT) CONSTRUCTED OF STEEL ANGLES. TAG ARCHITECTS THE WORK INCLUDES: - LIMITED STRUCTURAL MODIFICATIONS, REPLACING THE SINGLE-GLAZED WINDOWS. - REPLACING THE MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS IN THEIR ENTIRETY, EXIT PATH & LOAD, UNLESS OTHER WISE NOTED. FROM COLLECTOR - REPLACING THE ROOFING AND ADDING CONTINUOUS INSULATION 333 S. 4TH STREET - ELEVATOR AND STAIR ADDITION EXIT PATH COOS BAY, OR 97420 DEFERRED SUBMITTALS: 2 HR RATED WALL P: 541.269.1166 - SPRINKLER AND FIRE ALARM FIRE EXTINGUISHER general@hge1.com WALL MOUNTED CODE REVIEW SUMMARY www.hge1.com APPLICABLE CODES: FIRE EXTINGUISHER -2022 OREGON STRUCTURAL SPECIALTY CODE CABINET 2018 INTERNATIONAL EXISTING BUILDING CODE WORK AREA SECTION 303.4: (PER IEBC) EXISTING OCCUPANCY: A-3 - LIBRARIES NEW OCCUPANCY: TABLE 504.3: BUILDING HEIGHT ABOVE GRADE ALLOWABLE: 55' 23'-6" ACTUAL: TABLE 504.4: STORIES ABOVE GRADE ALLOWABLE: ACTUAL: TABLE 506.2: AREA 9,500 SF ALLOWABLE: 8,554 SF ACTUAL: 1ST STORY 6,029 SF STERED ARCH I 2ND STORY 2,525 SF TABLE 601: E E G JOȘEPH A. SLACK EXISTING BUILDING CONSTRUCTION TYPE: III - B 2 HR EX. BEARING WALLS SPRINKLERED ment. Stack ADDITION BUILDING CONSTRUCTION TYPE: IV - B പ് SPRINKLERED TABLE 705.5: COOS BAY, OREGON FIRE SEPARATION DISTANCE: < 5 FT, OCCUPANCY GROUP A = 1-HOUR I GIE OF ORE 30" PARAPET REQUIRED (706.6) SECTION 706.6: VERTICAL CONTINUITY: 30" PARAPET NOT REQUIRED PER EXCEPTION 4 SECTION 713.4: SHAFT ENCLOSURE, < 4 STORIES: 1 HR SECTION 901.6.1: AUTOMATIC SPRINKLER SYSTEMS MONITORED BY APPROVED SUPERVISING STATION PER NFPA 72 SECTION 903.2.1.3: AUTOMATIC SPRINKLER SYSTEM REQUIRED FOR GROUP A-3, PER ITEM 3: OCCUPANCY IS ON A FLOOR OTHER THAN A LEVEL OF EXIT DISCHARGE SECTION 903.3.1.1: SPRINKLERS SHOULD BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13 TABLE 1006.2.1: TRAVEL DISTANCE MAX, OCCUPANCY A, MAX OCCUPANT LOAD: 49 C = TWO EXITS PROVIDED Ž D SECTION 1019.3: EXIT ACCESS STAIRWAYS ENCLOSURE NOT REQUIRED PER 1019.3.1 TABLE 1020.1: OCCUPANCY A - CORRIDOR WITH 1 HR. FIRE RATING IF OCCUPANT LOAD > 30, IF NOT SPRINKLERED, $\square$ CORRIDOR O HR. FIRE RATING IF BUILDING IS SPRINKLERED m – INTERNATIONAL EXISTING BUILDING CODE 2021, SECTIONS LISTED BELOW LIBRARY WORK AREA. AS DEFINED IN IEBC: 1ST FLOOR TOTAL: 1,795 SF 517 SF 2ND FLOOR TOTAL: 2,312 SF TOTAL: SECTION 603: WORK AREA PERCENTAGE OF BUILDING: 27% < 50% = ALTERATION LEVEL 2 CHAPTER 8: ALTERATIONS - LEVEL 2 LLE PUBLIC SECTION 801.4 : ALL NEW WORK WILL COMPLY WITH THE IBC. EXCEPTIONS: 1. NEW WINDOWS NOT REQUIRED TO COMPLY WITH LIGHT AND VENTILATION SECTION 802.1 : STAIRS & CORRIDORS H ADAMS STREET OREGON 97423 EXISTING VERTICAL OPENINGS SHALL BE ENCLOSED WITH FIRE RESISTANCE **RATING OF 1-HOUR UNLESS:** EXCEPTION 1 - NOT REQUIRED BY IBC : - APPROVED AUTOMATIC FIRE DETECTION SYSTEM PER IBC AND NFPA 72. SECTION 804.5.4 : PANIC HARDWARE WORK AREA'S EXIT DISCHARGE, IN GROUP A ASSEMBLY OCCUPANCIES, WITH AN OCCUPANT LOAD GREATER THAN 100, EXIT DOORS SHALL BE EQUIPPED WITH APPROVED PANIC OR FIRE EXIT HARDWARE PER IBC SECTION 1010.2.9. 259 NORTH COQUILLE, ( SECTION 804.10 : HANDRAILS EXISTING EXIT STAIRWAY IN WORK AREA'S MUST HAVE ONE EXISTING HANDRAIL SECTION 804.12 : GUARDS C R

EXISTING STAIRS AND BALCONIES IN WORK AREA'S MUST HAVE EXISTING GUARDS.

als	Toilets	NOTES
	3	
	2	
IDED	5	
		2 total

SECTION 809.1 : ENERGY CONSERVATION - MINIMUM REQUIREMENTS LEVEL 2 ALTERATIONS TO EXISTING BUILDINGS ARE PERMITTED WITHOUT REQUIRING THE ENTIRE BUILDING OR STRUCTURE TO COMPLY WITH THE INTERNATIONAL ENERGY CONSERVATION CODE. ALTERATIONS SHALL CONFORM TO THE INTERNATIONAL ENERGY CONSERVATION CODE AS THEY RELATE TO NEW CONSTRUCTION ONLY.

CONSTRUCTION

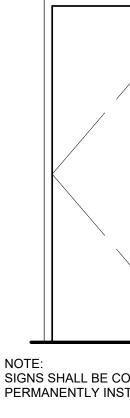
# DATE DESCRIPTION

REVISIONS:

DATE: JULY 2023 SHEET TITLE:

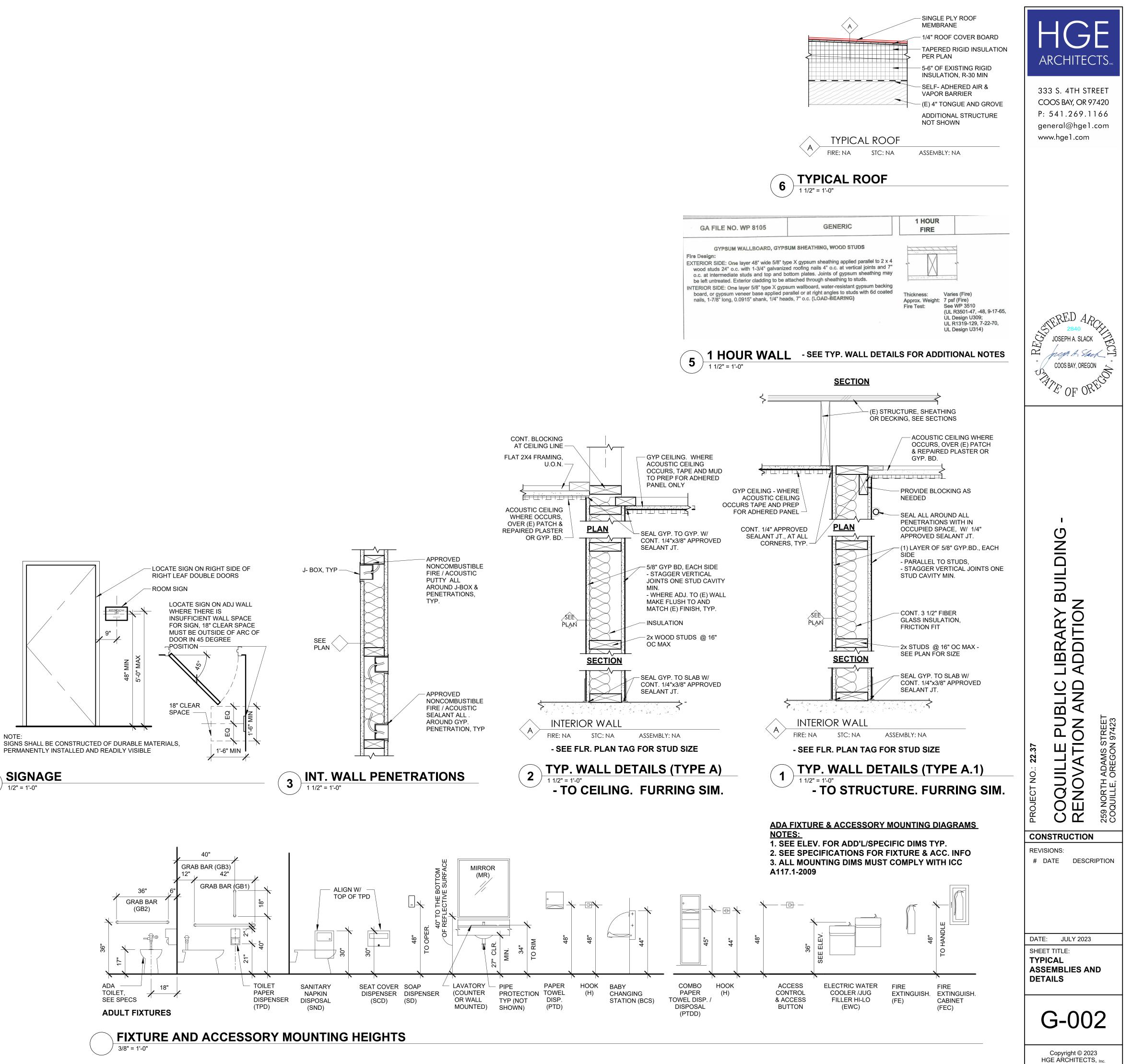
CODE & LIFE SAFTEY PLAN

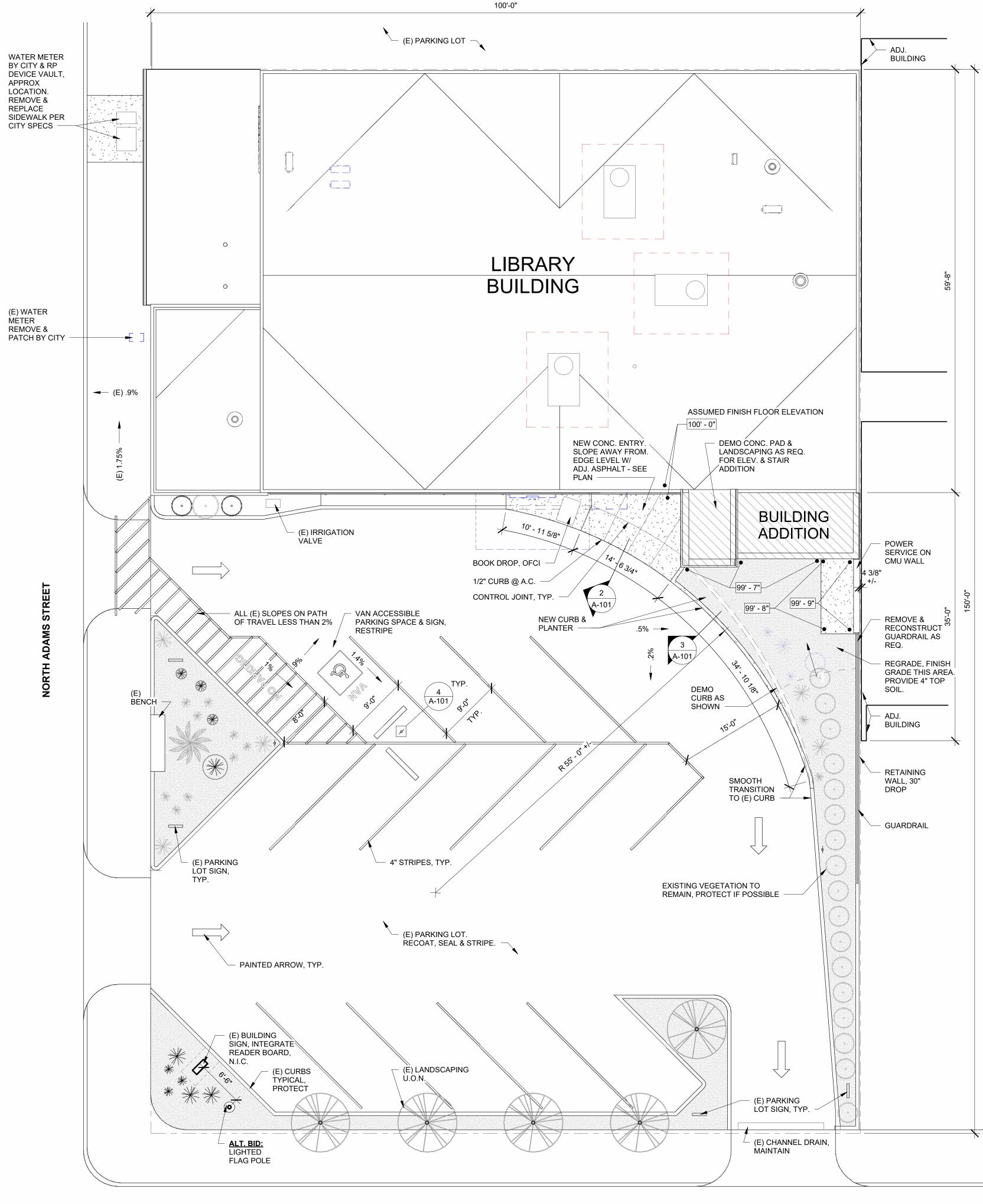










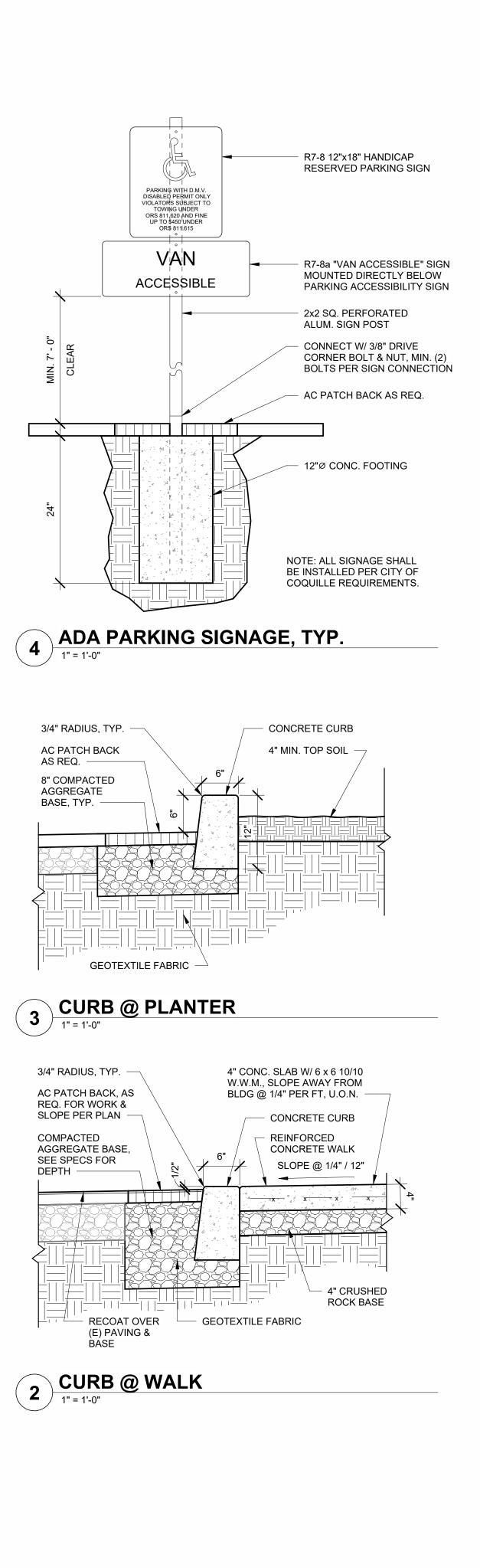


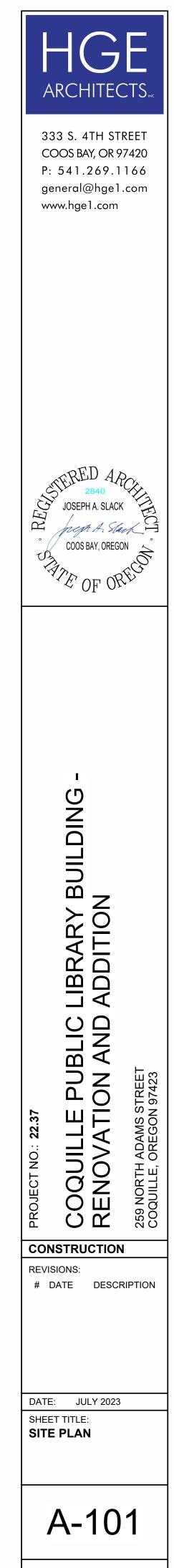


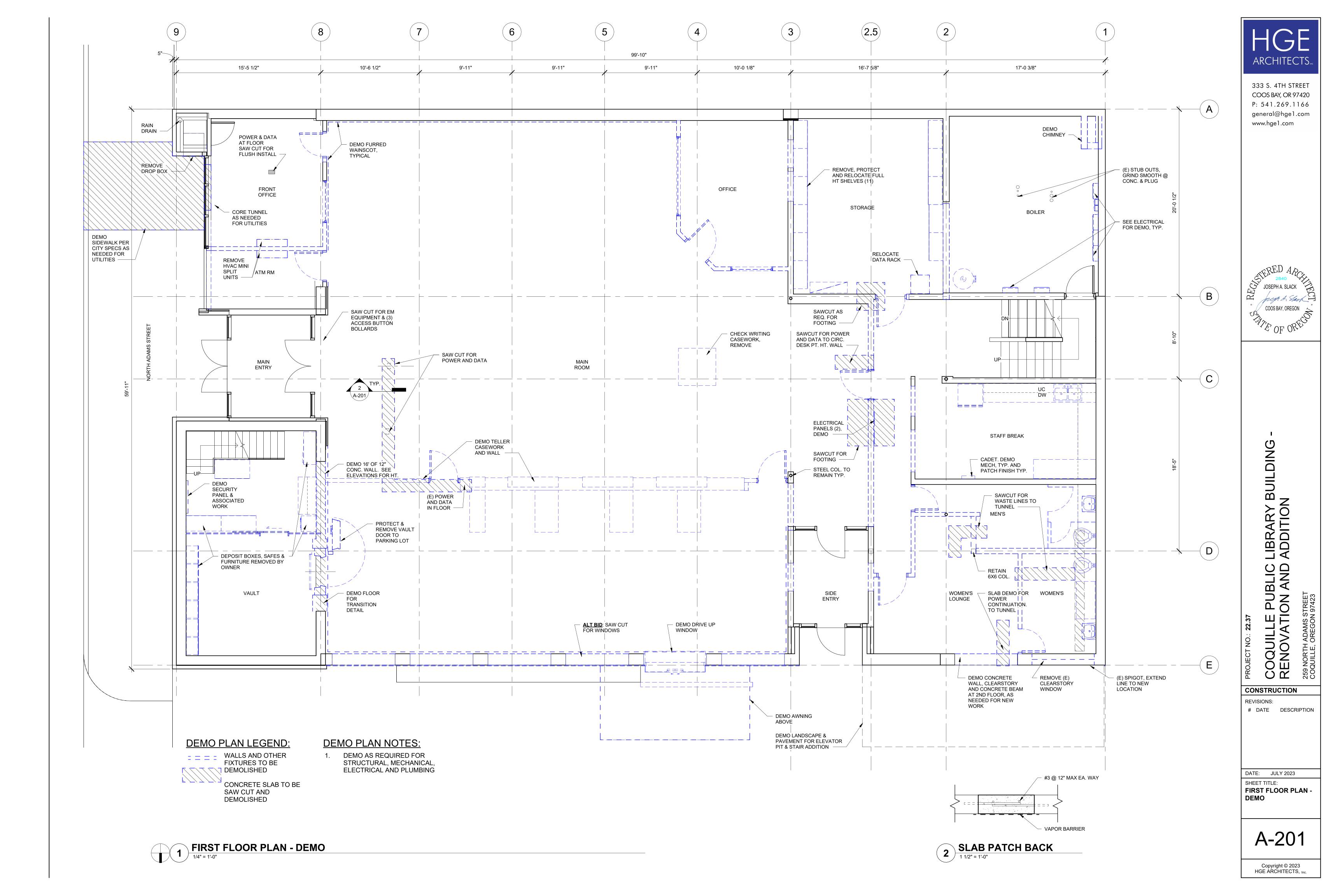
# **GENERAL NOTES**

- RE TOP ASPHALT. PROVIDE NO CHANGES IN GRADE GREATER THAN .5" @ 45d. Α. **RE-STRIPE** RE-PURPOSE SIGNAGE
- EXISTING IRRIGATION SYSTEM TO REMAIN. PROTECT DURING CONSTRUCTION.

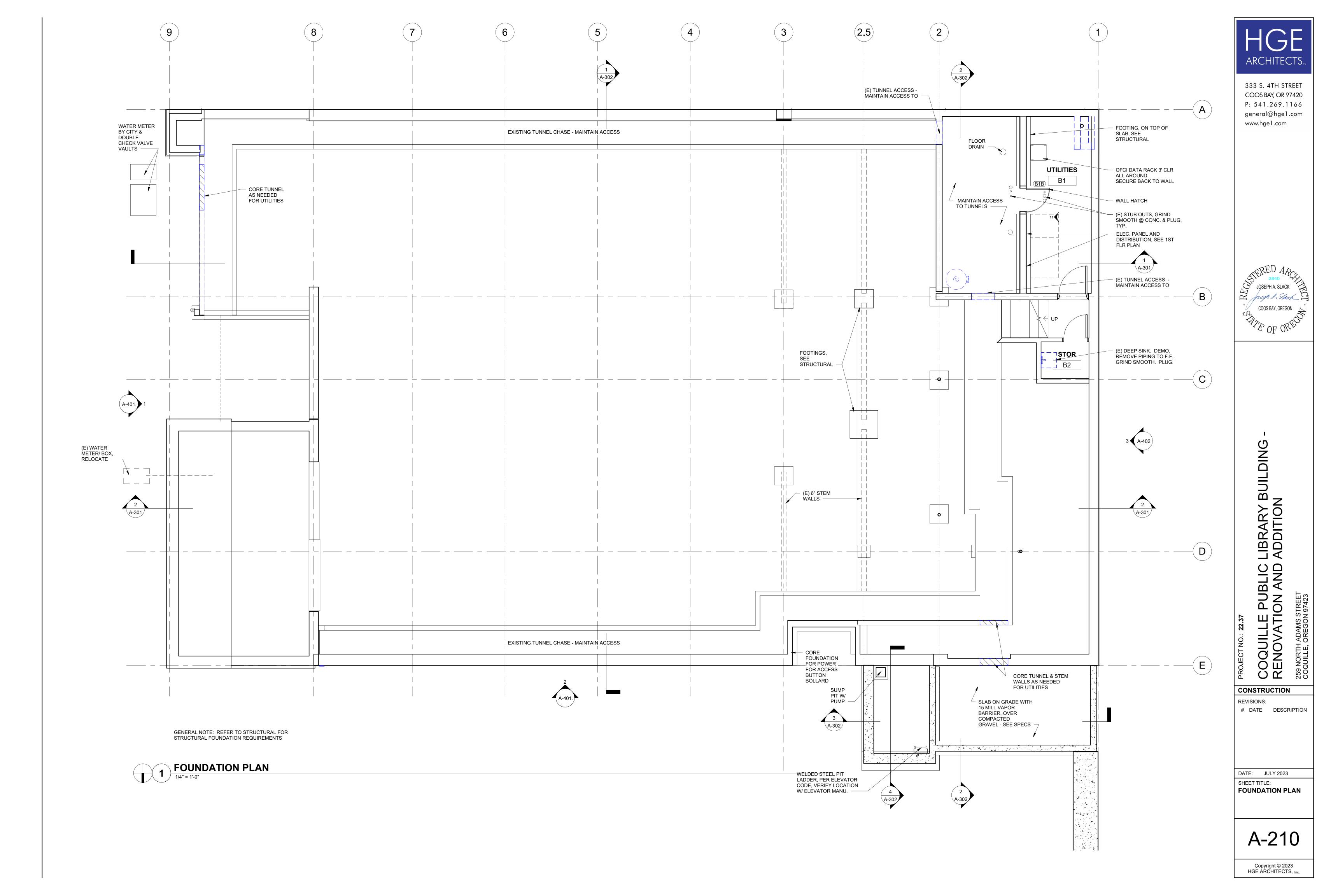
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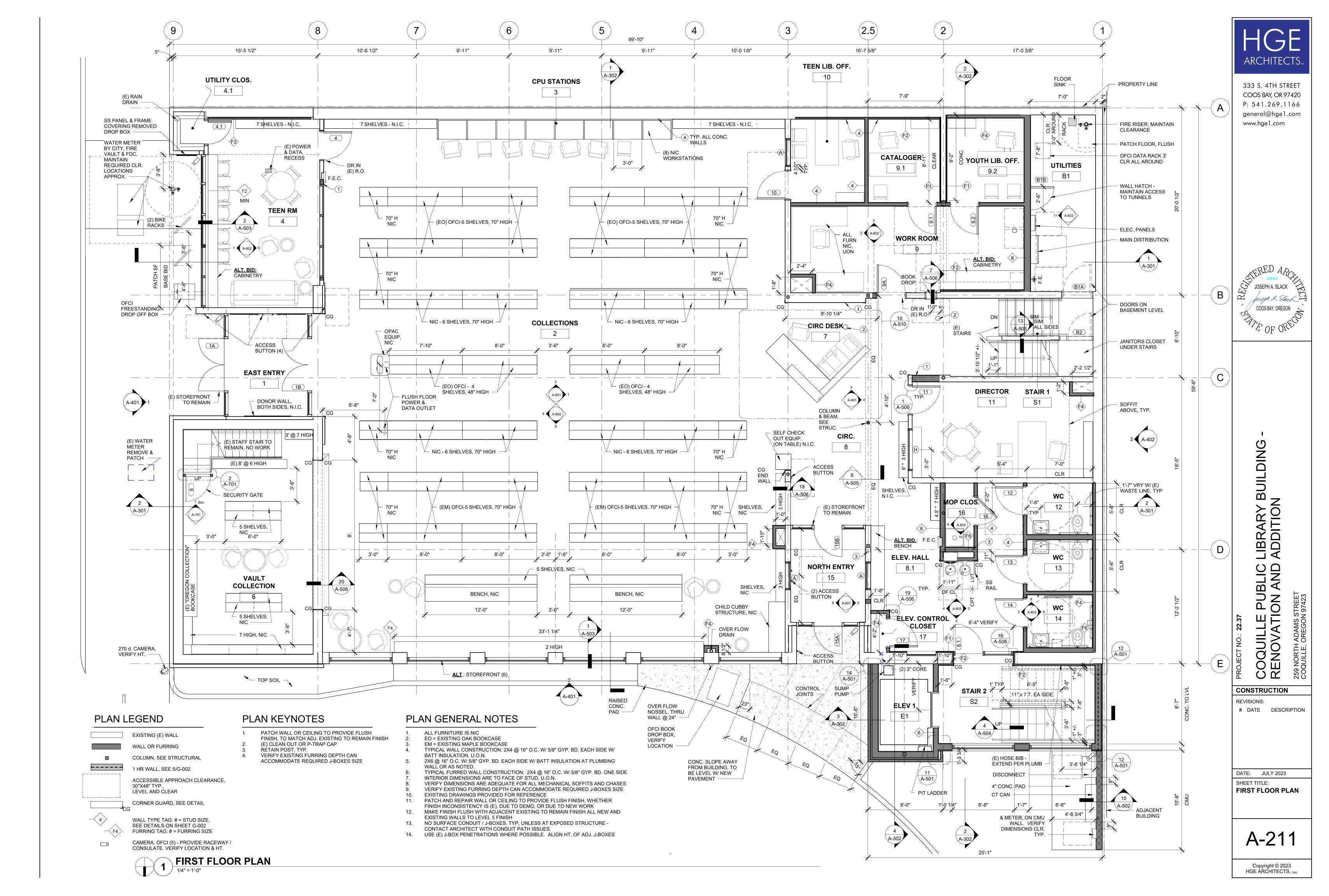


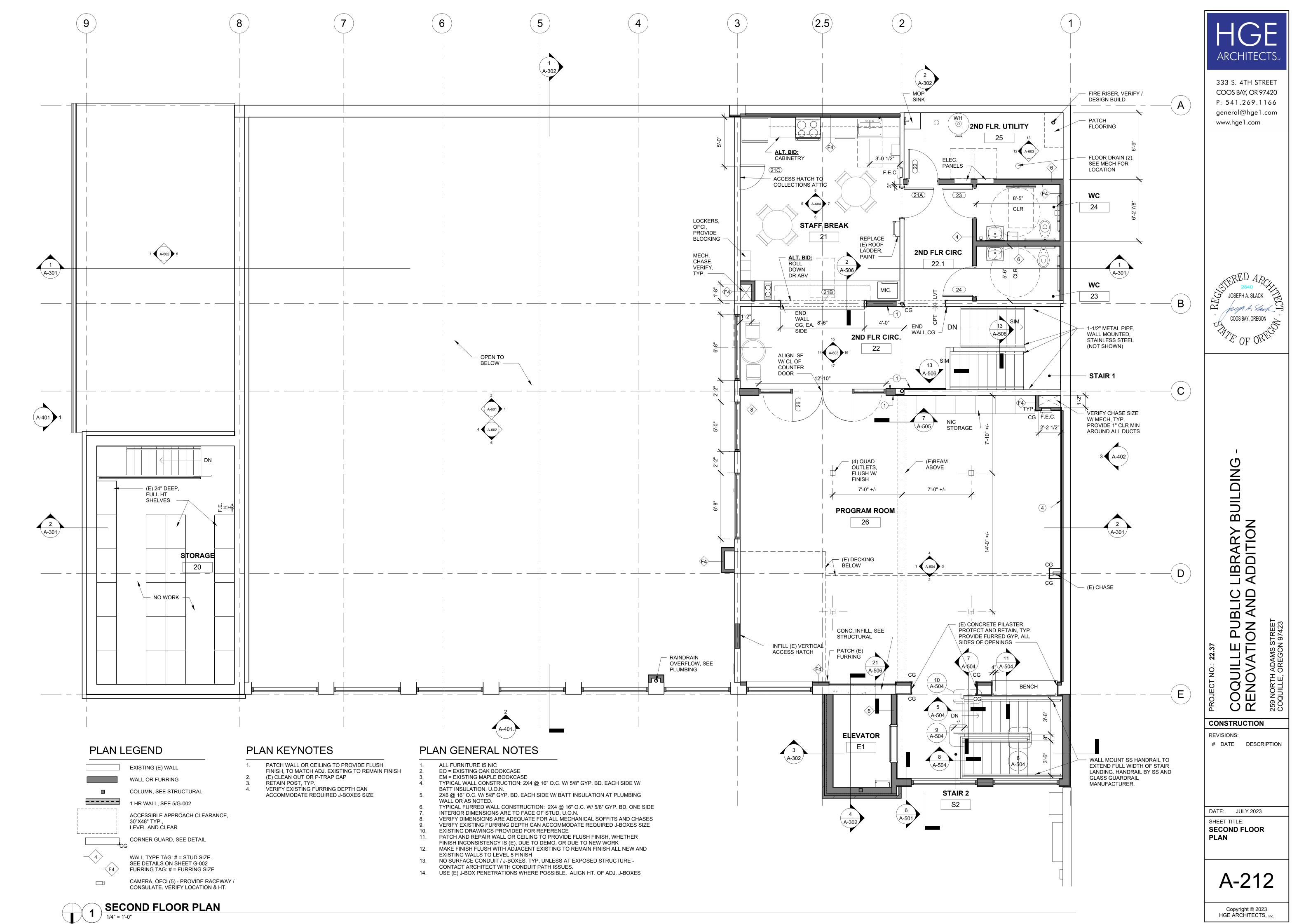


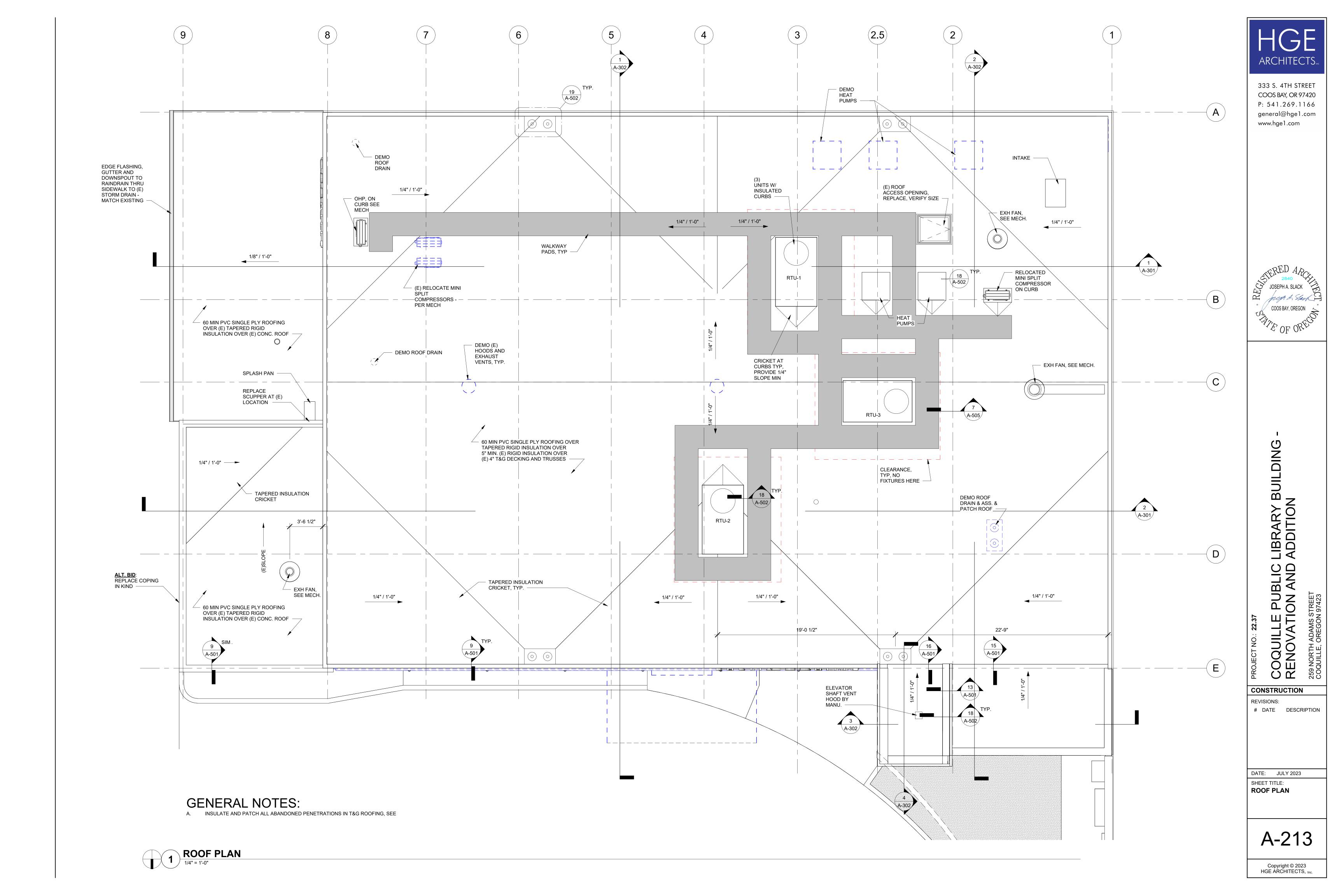


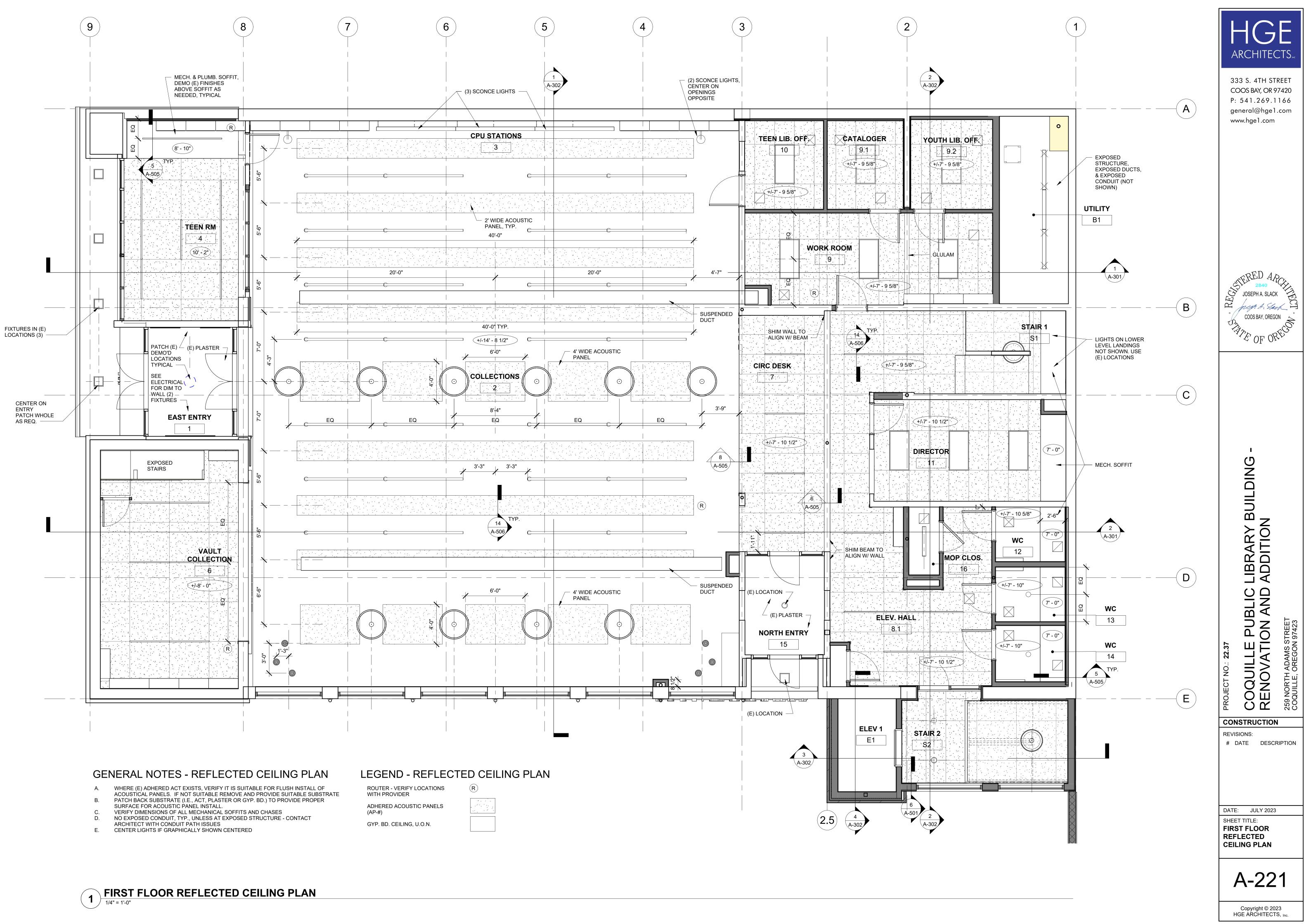


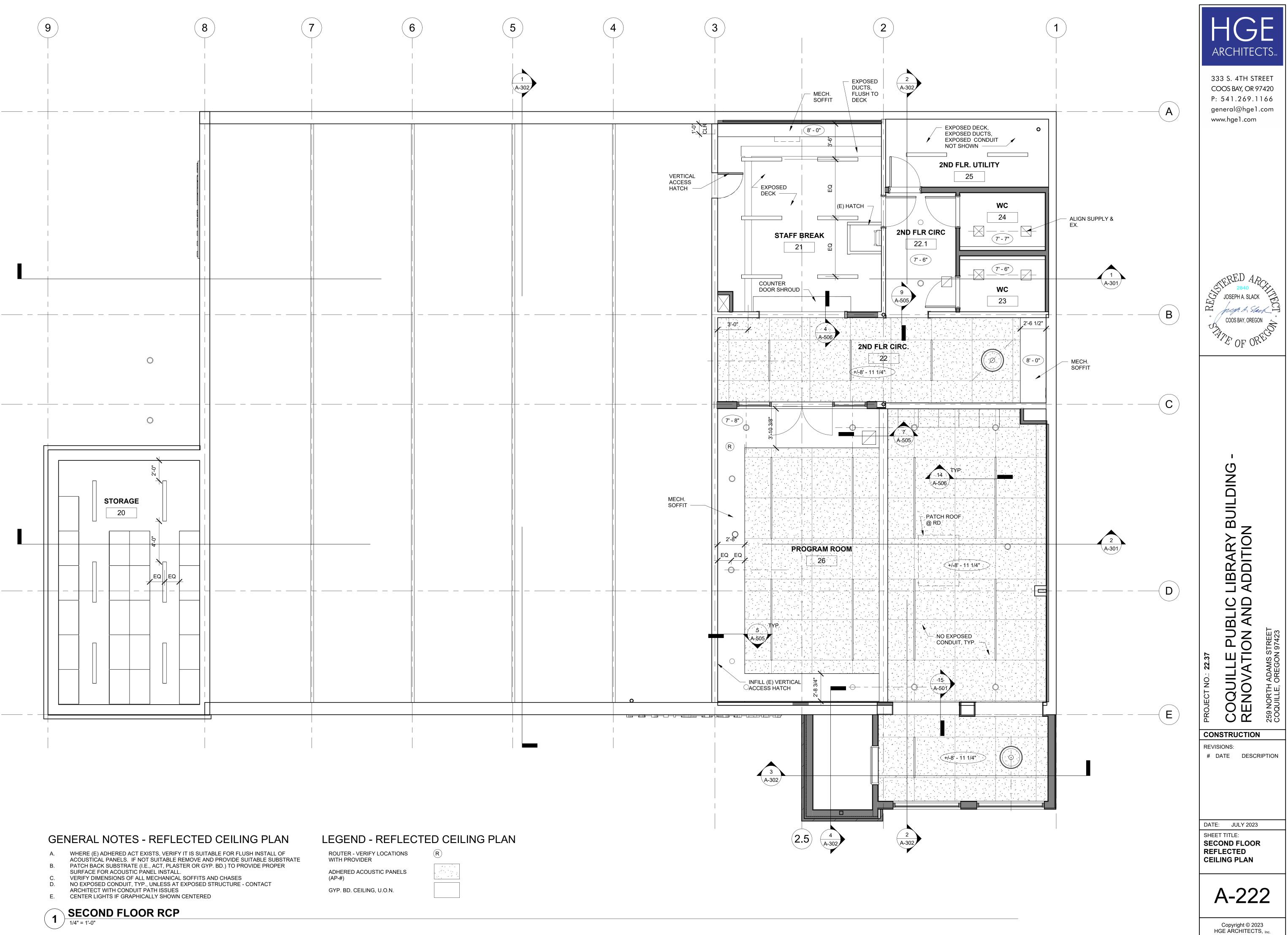




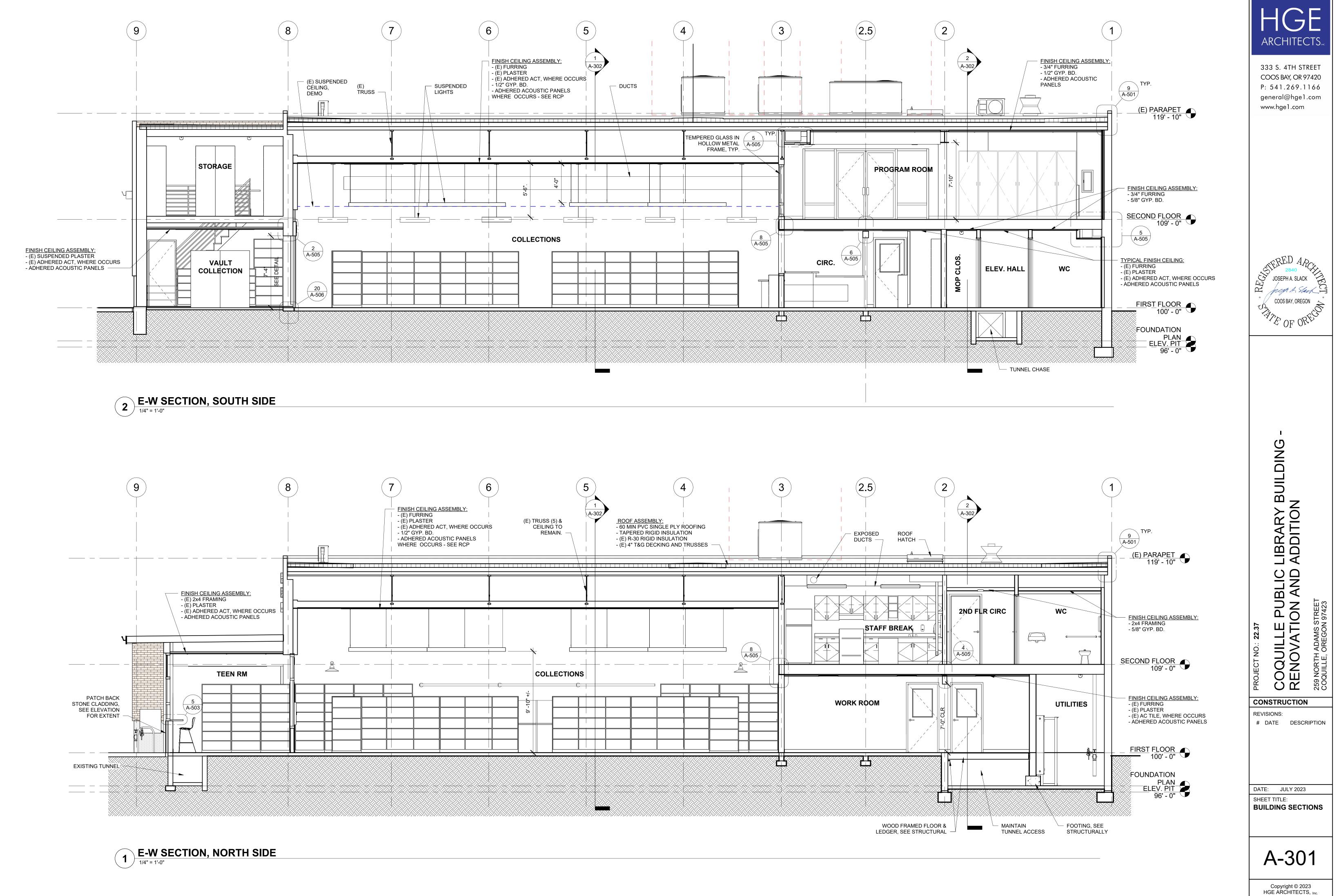




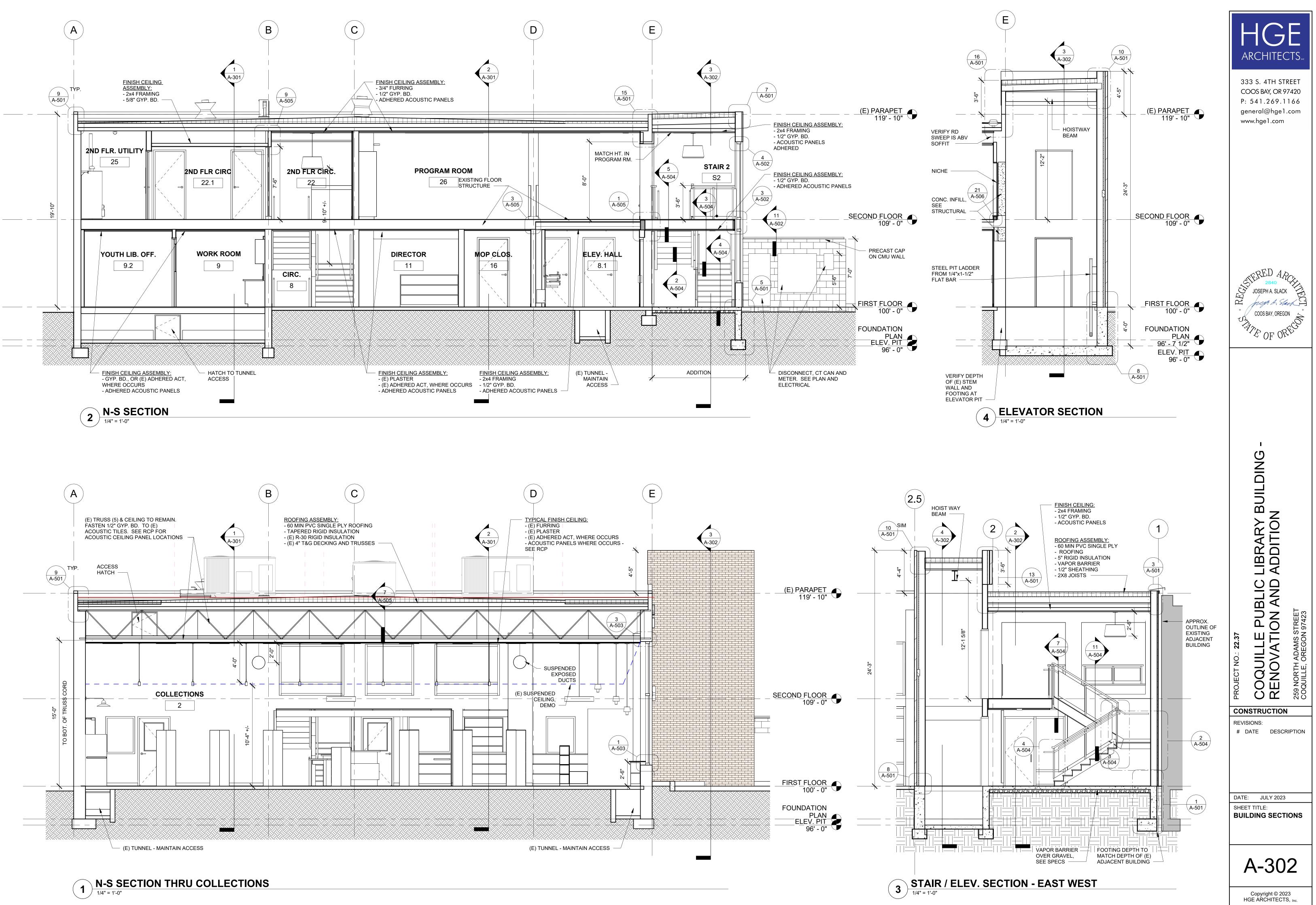


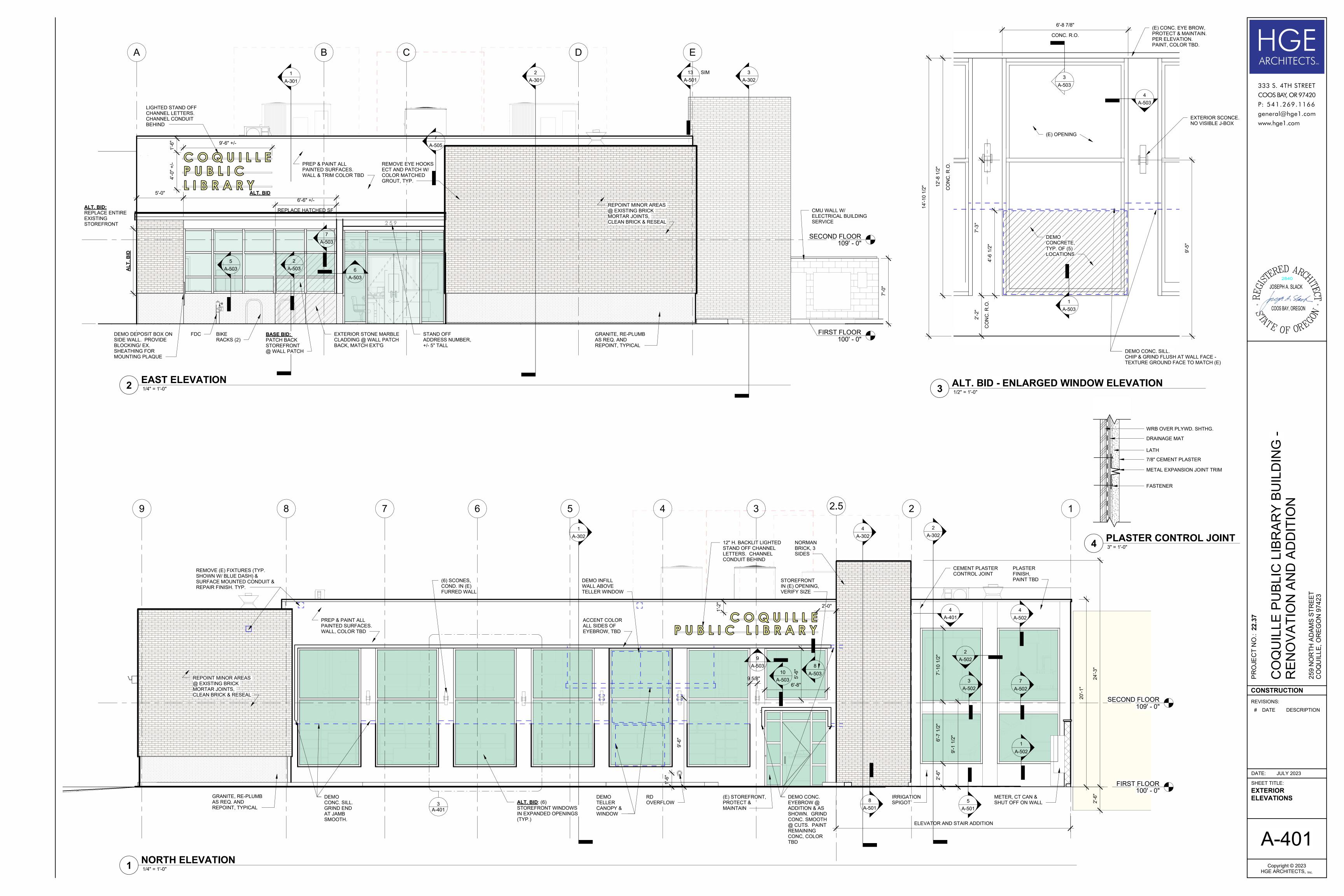


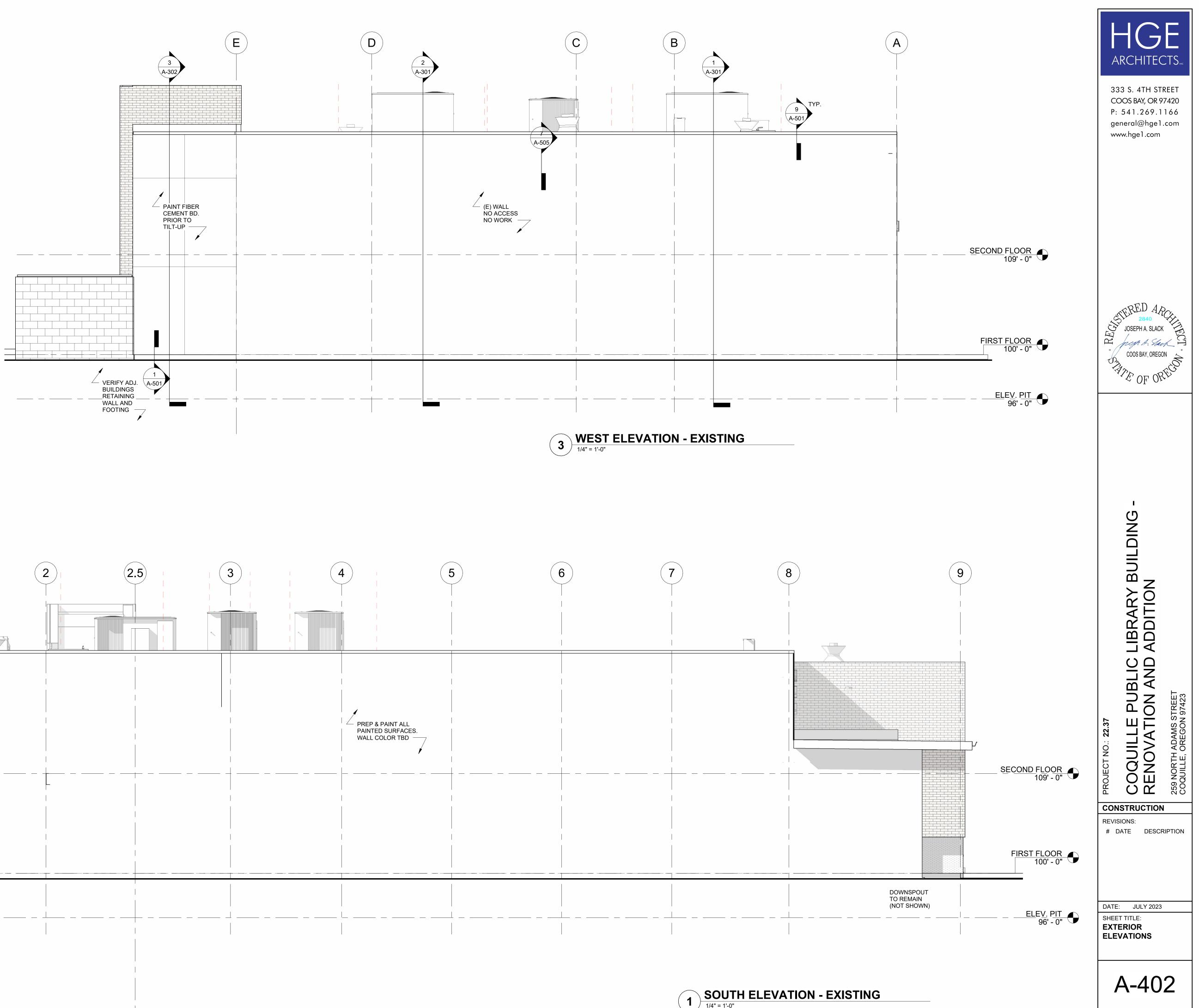


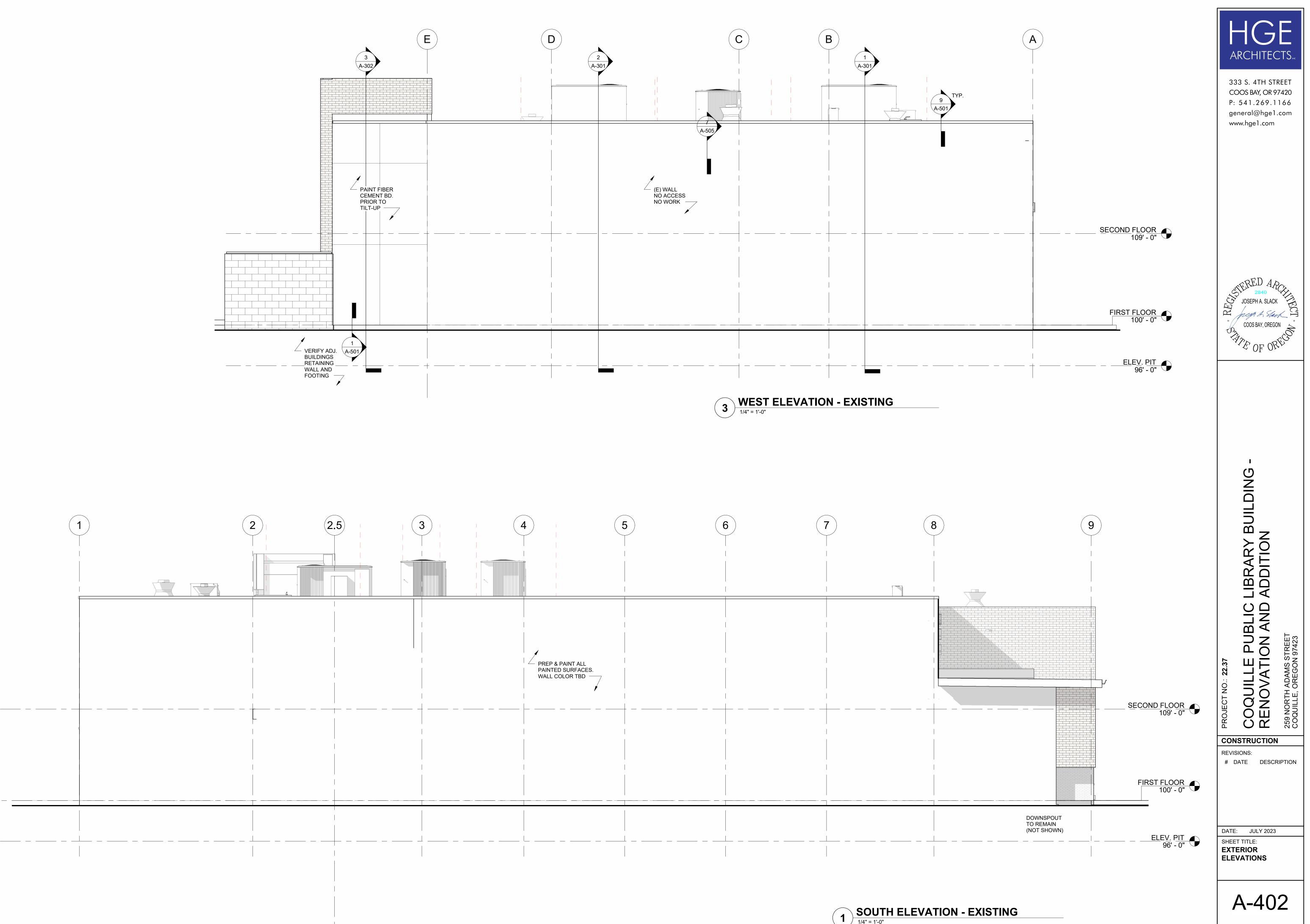


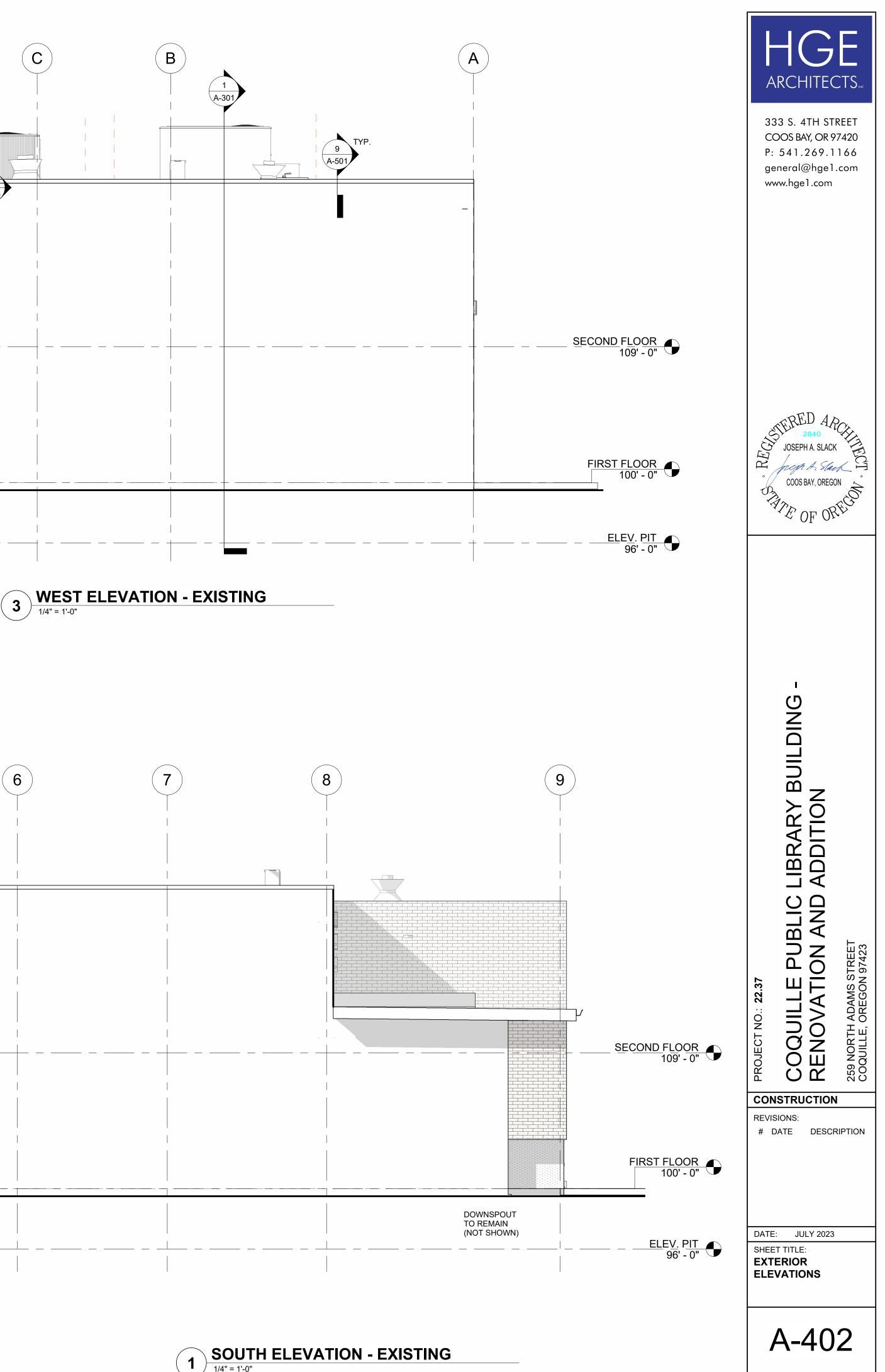


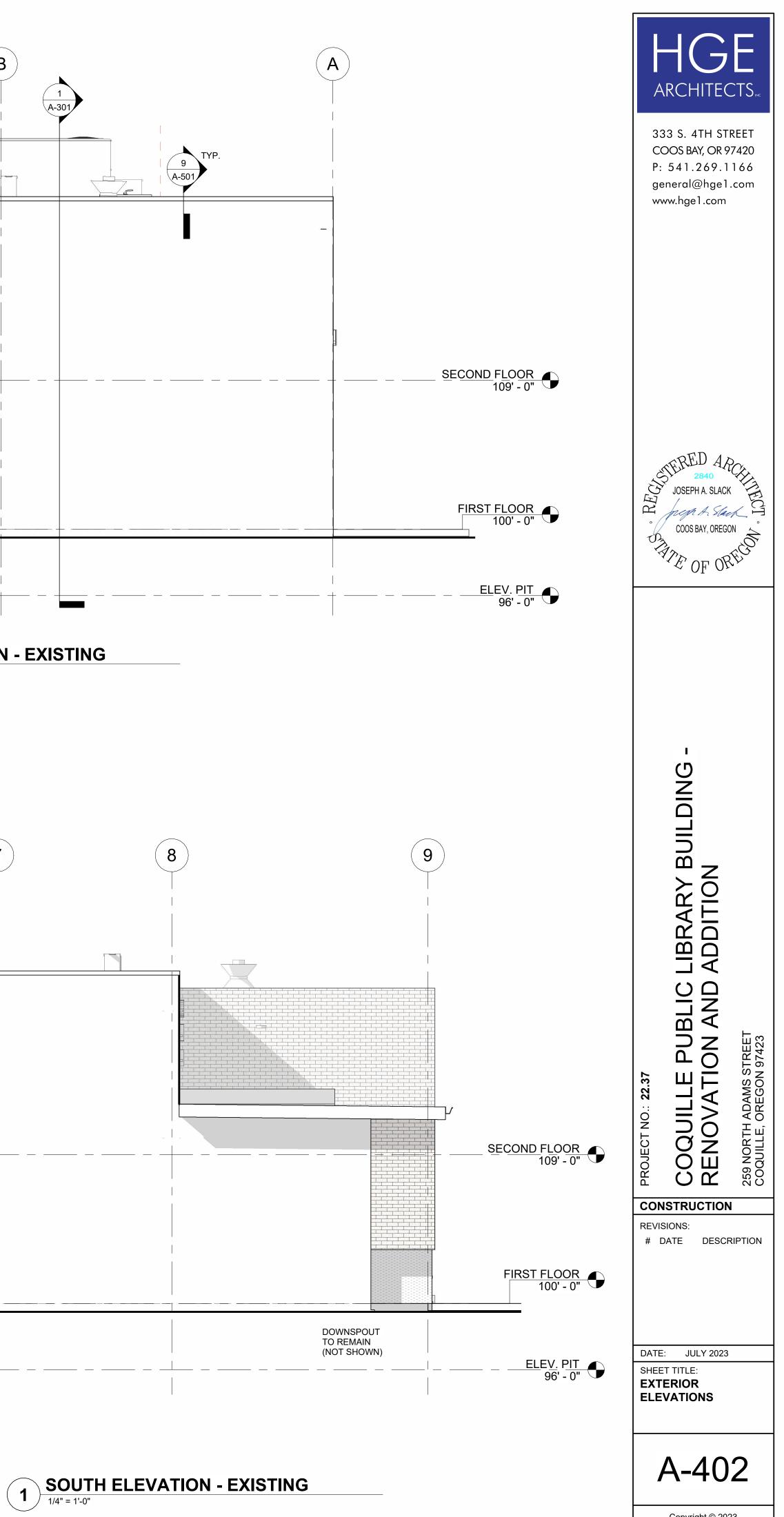


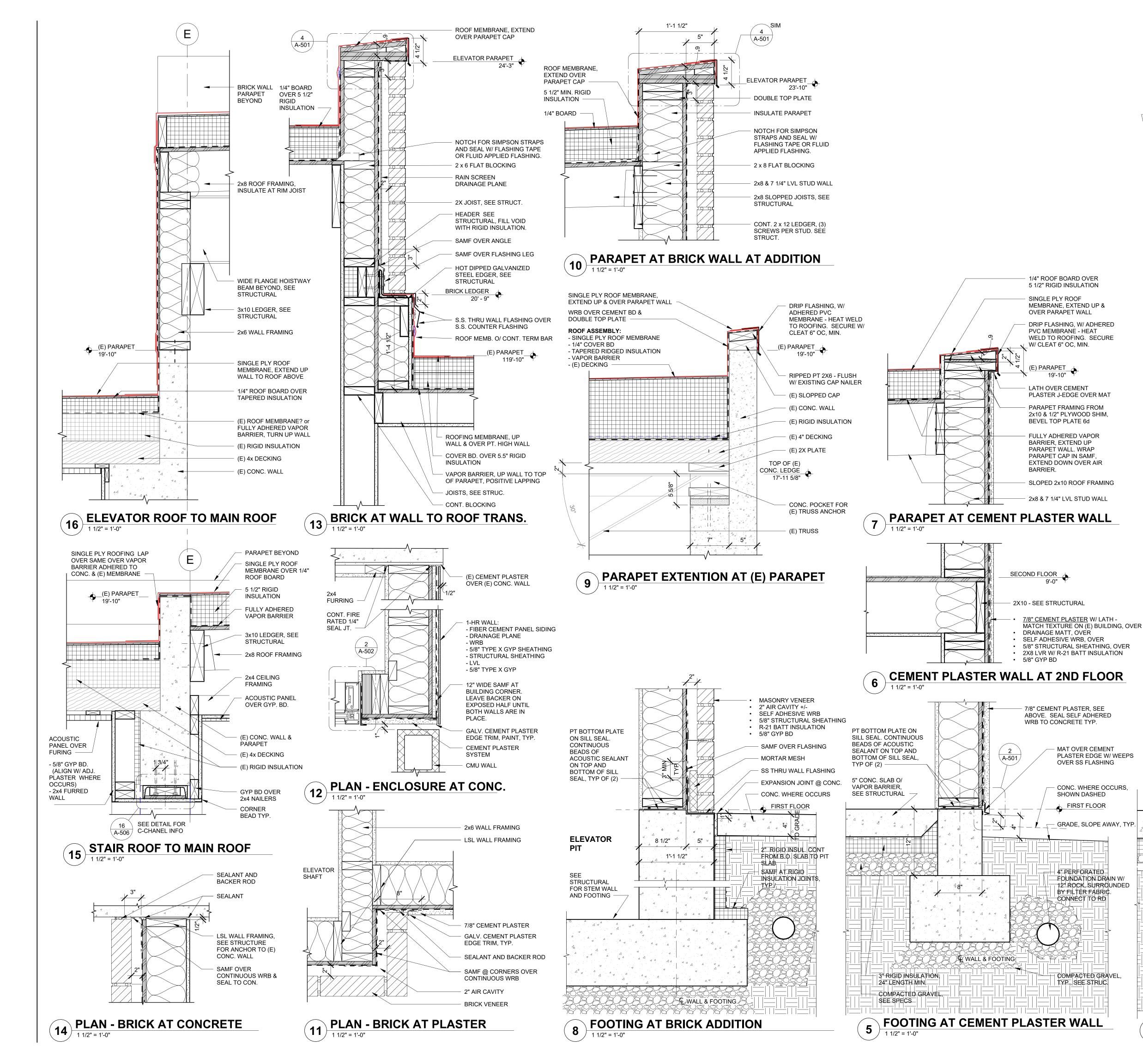


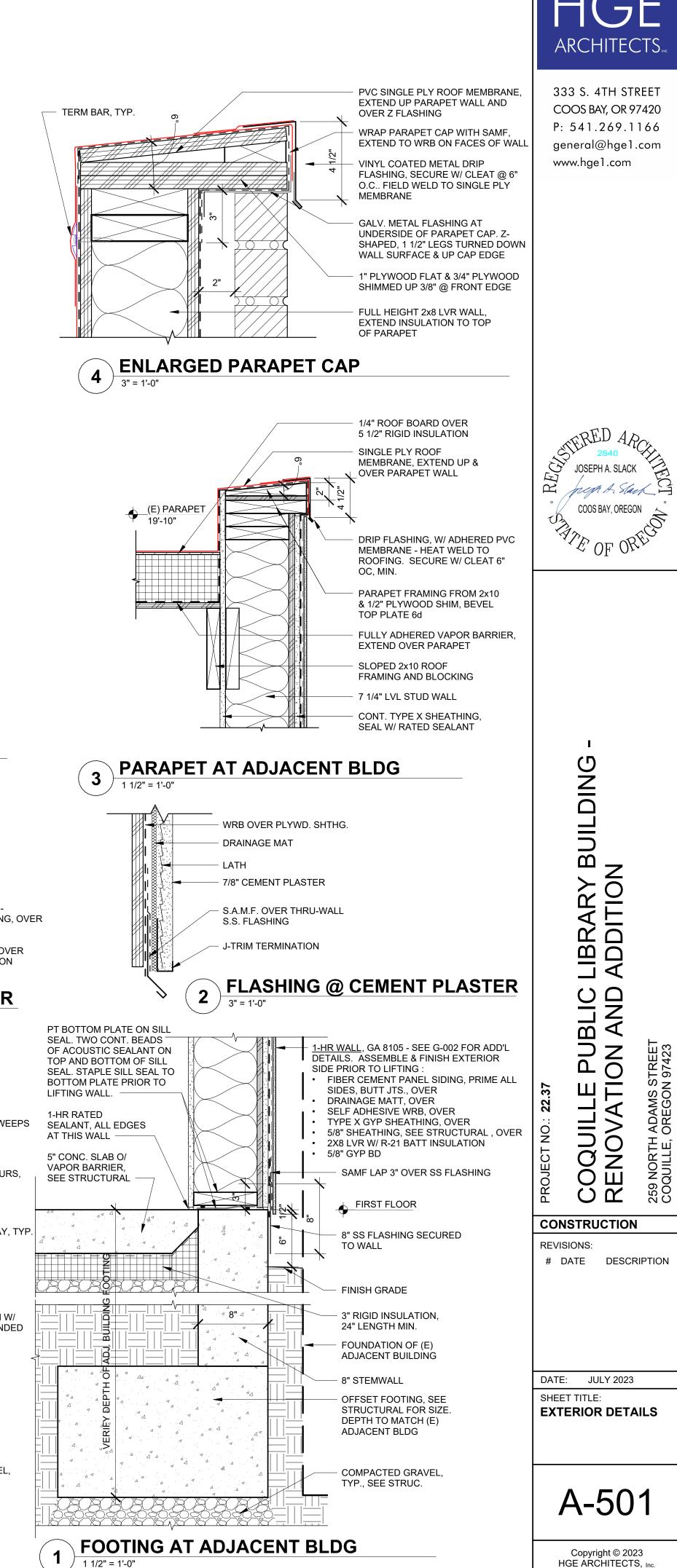


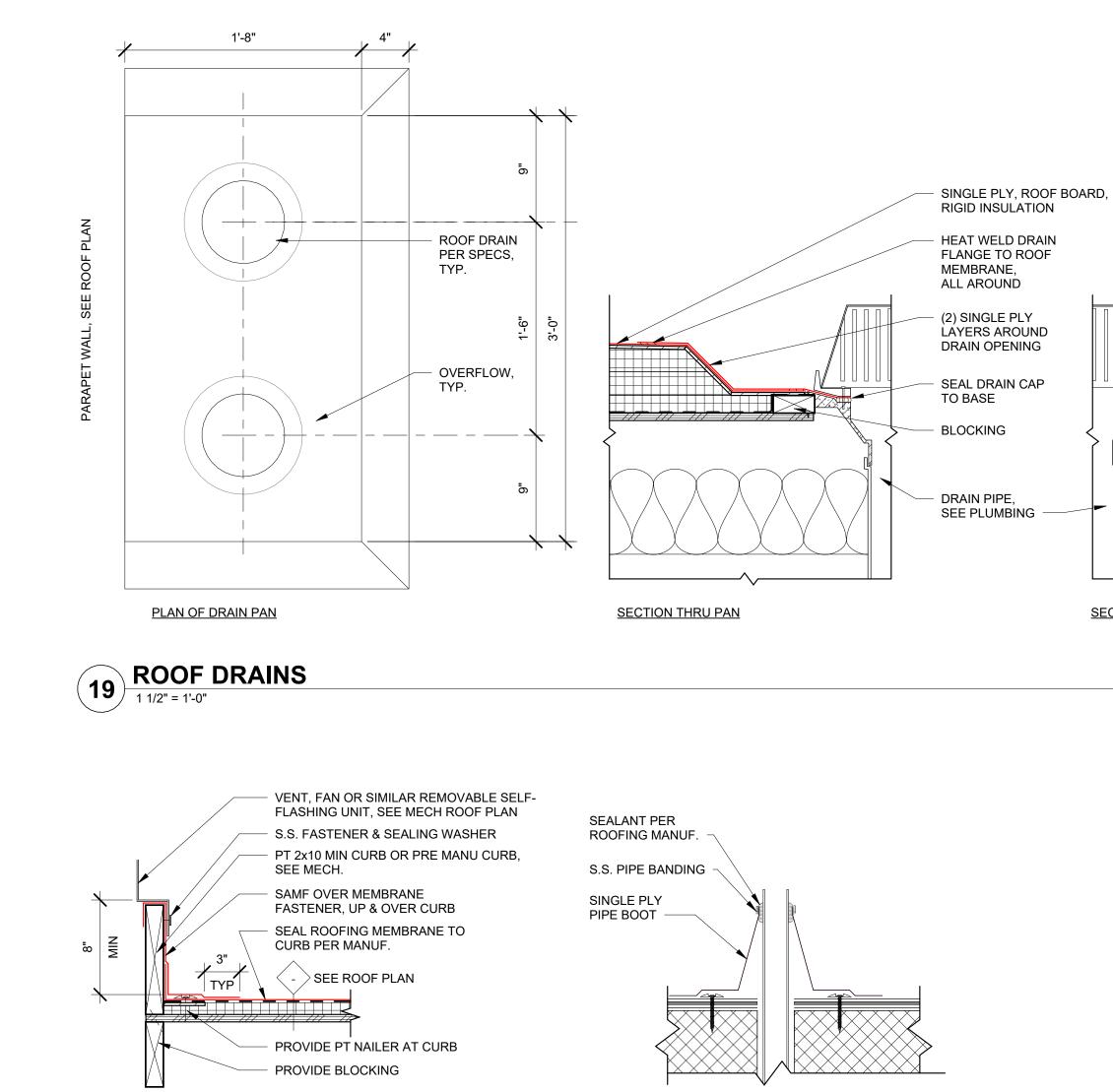




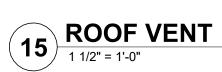


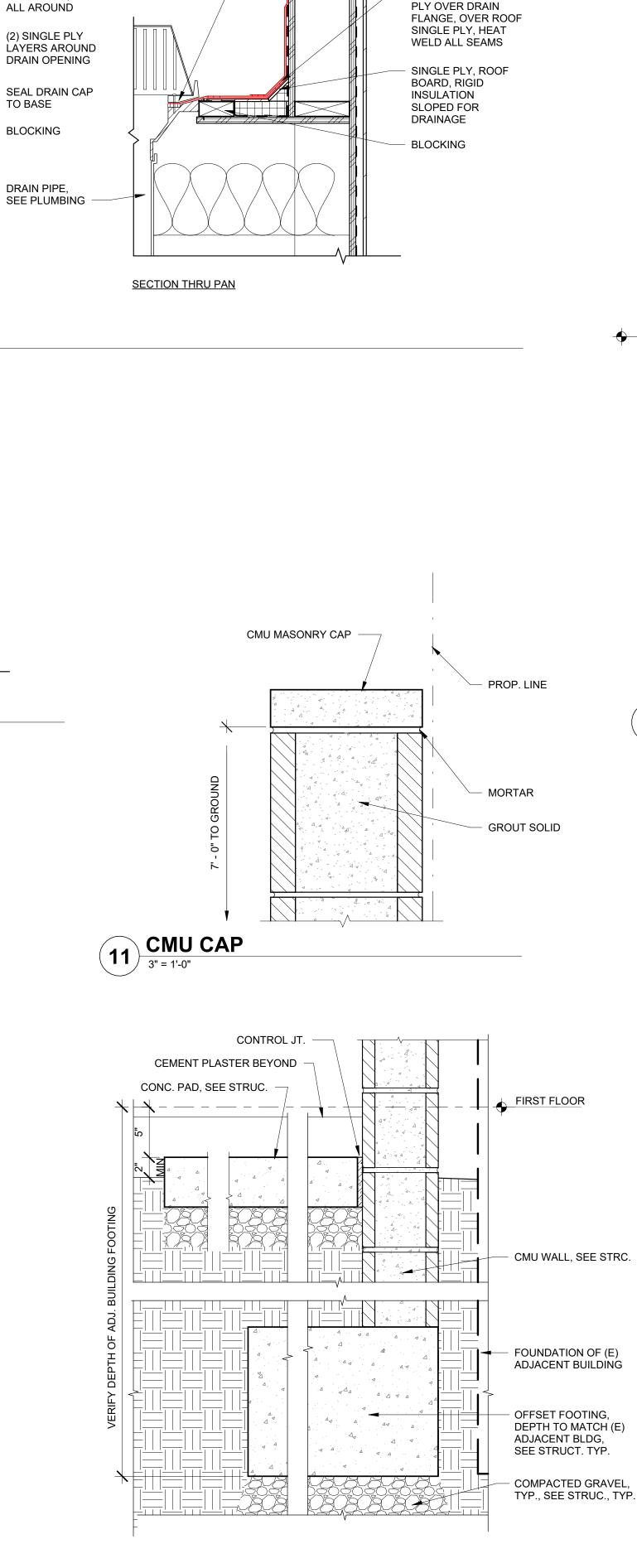






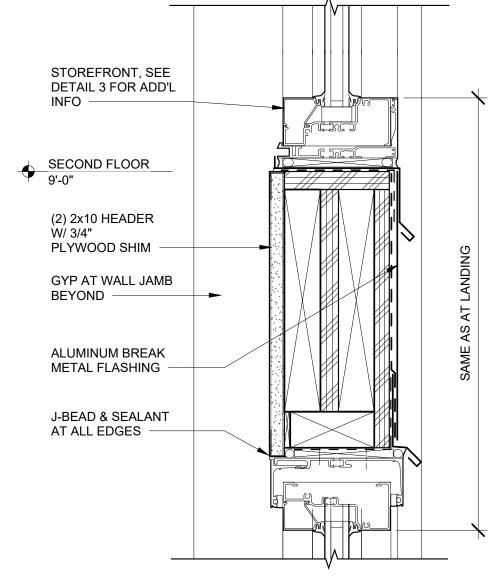






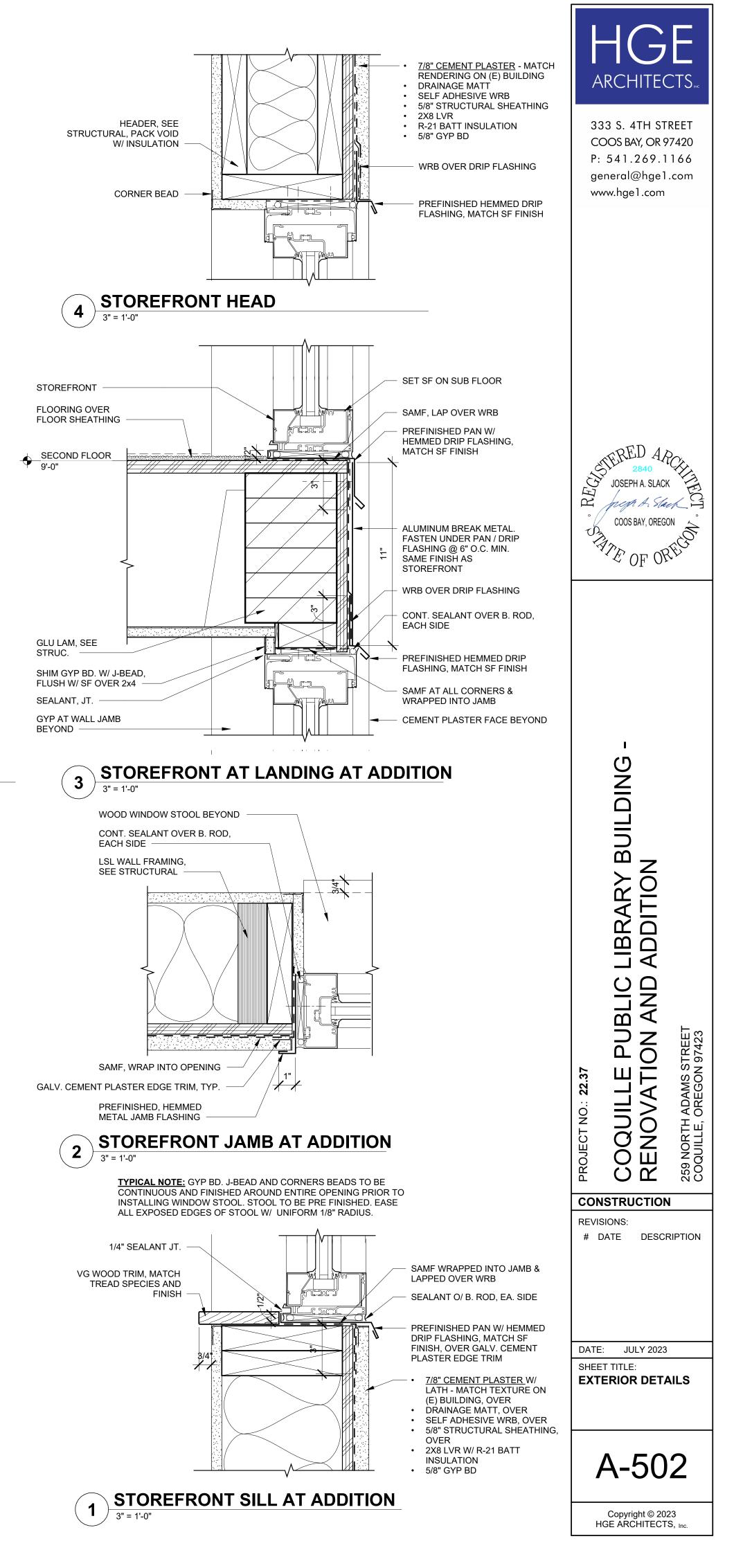
 SEAL DRAIN CAP TO BASE

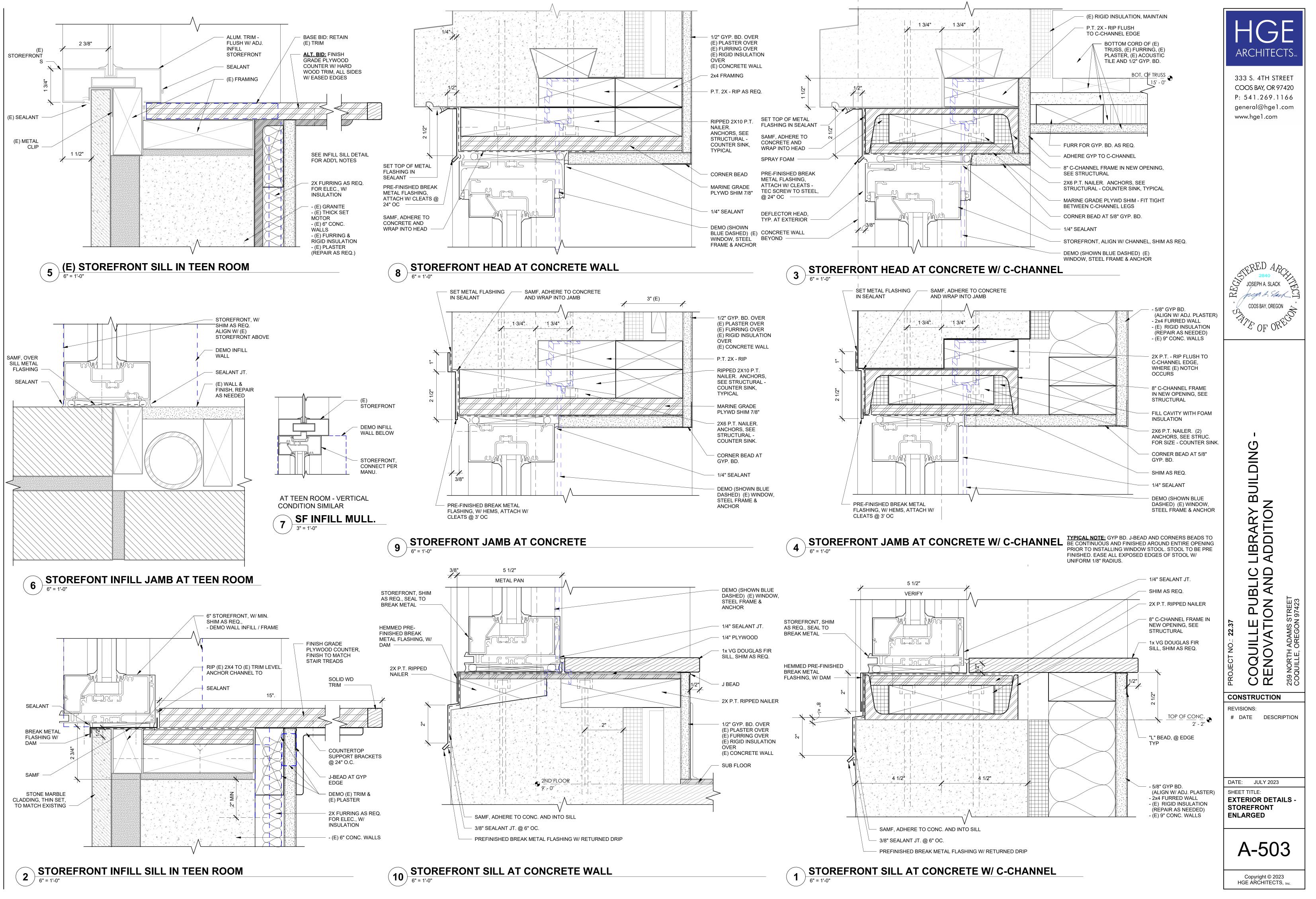
LAP PARAPET SINGLE

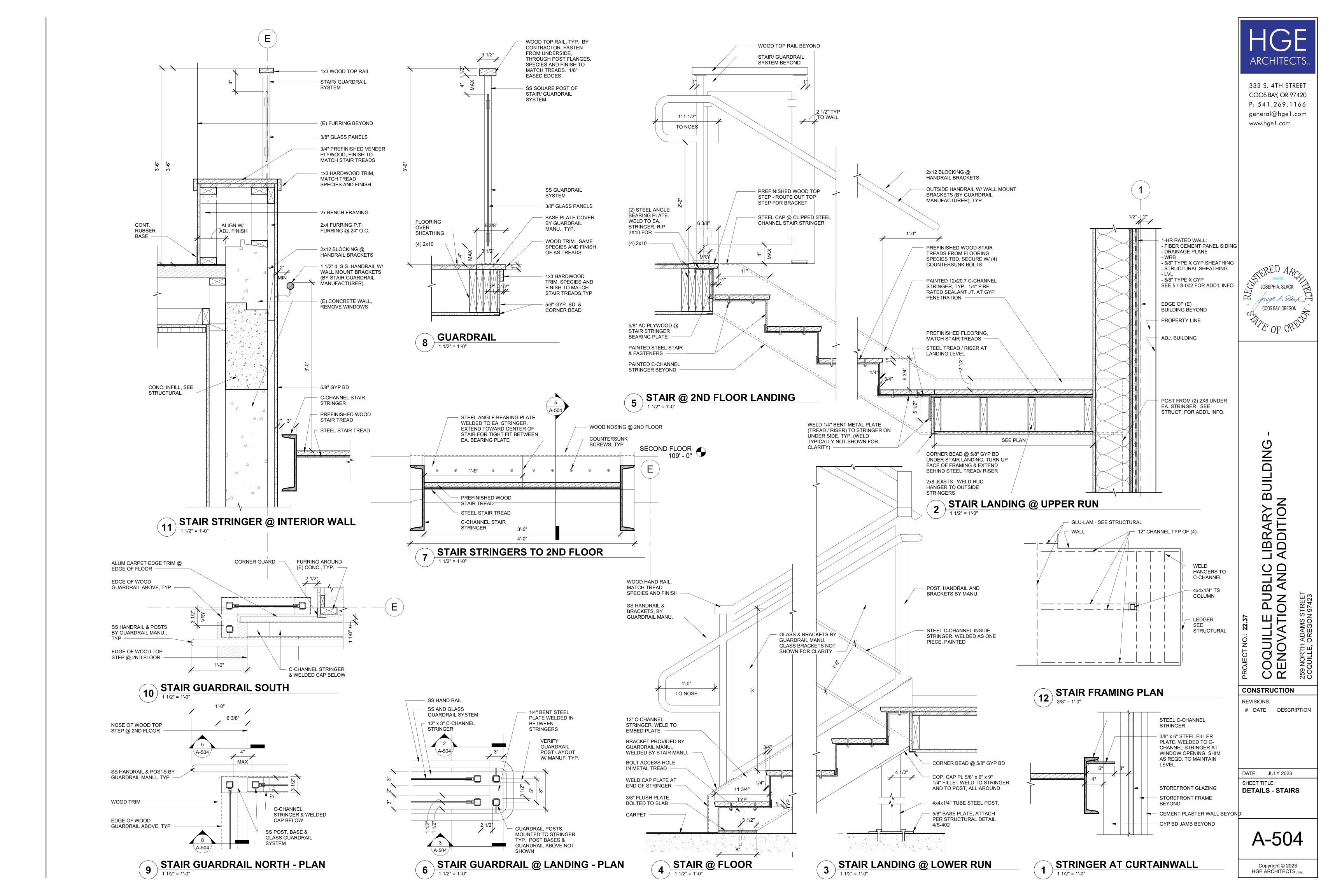


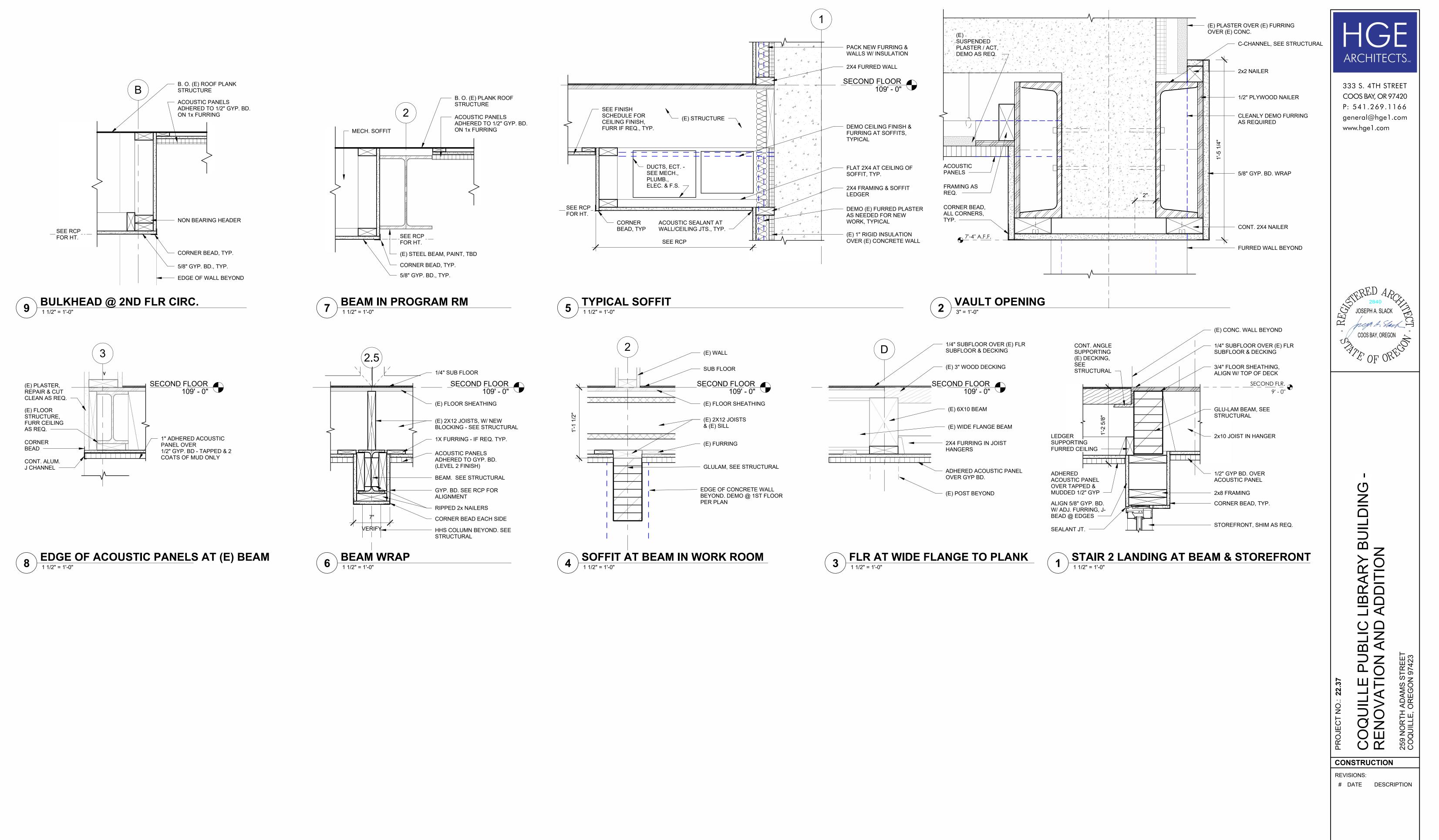


**10 FOOTING AT CMU WALL** 



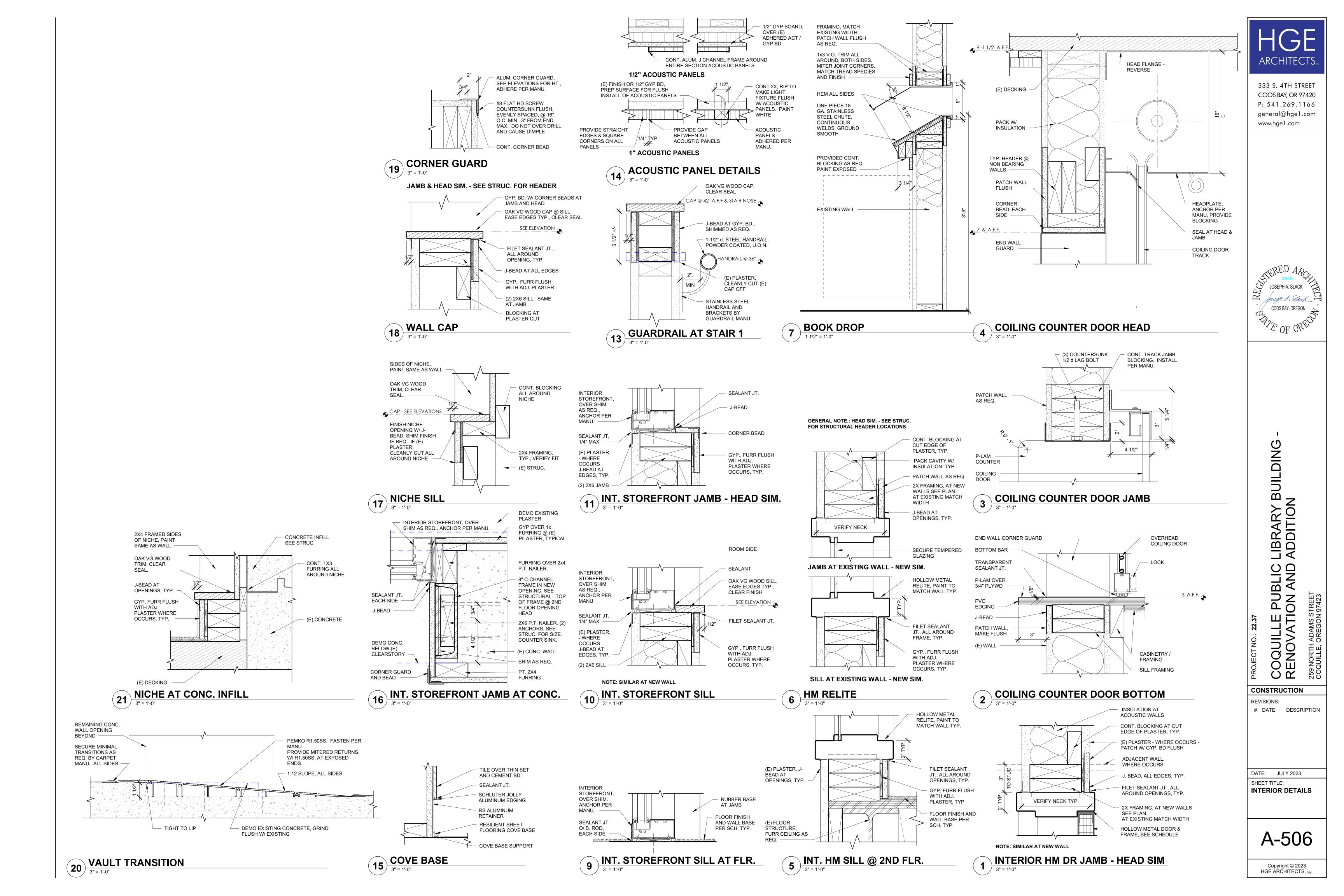




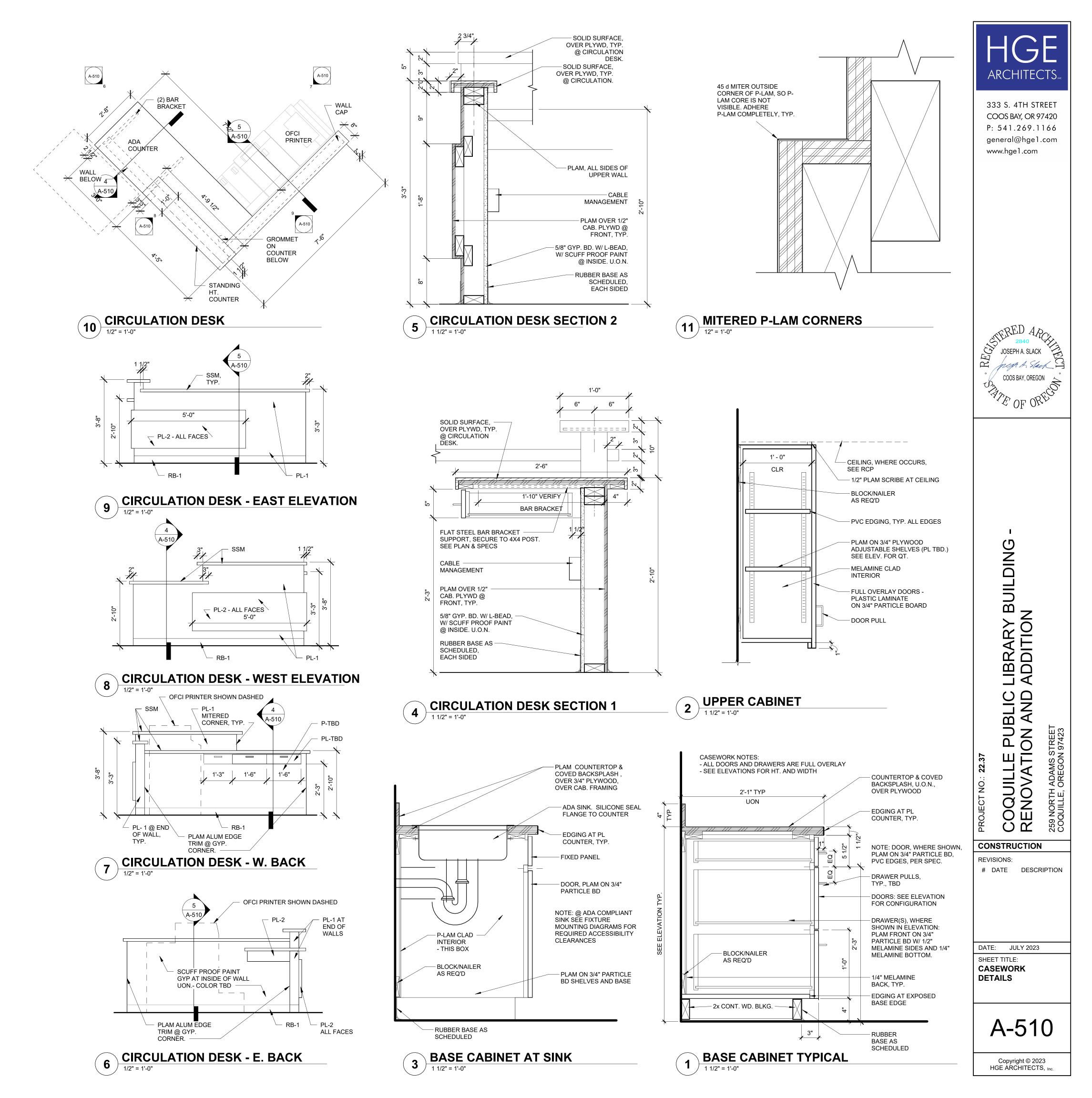


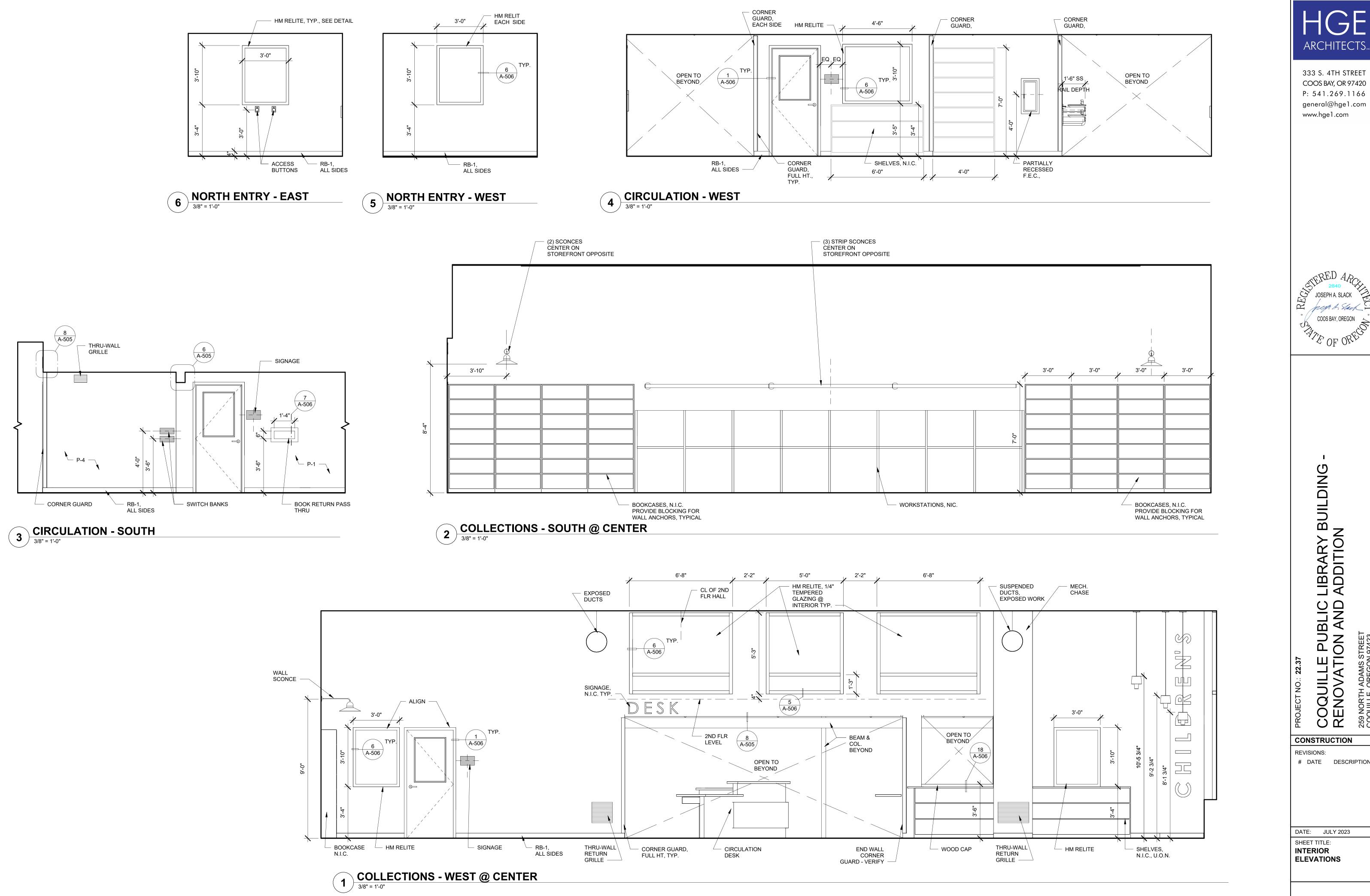
DATE: JULY 2023 SHEET TITLE: INTERIOR DETAILS





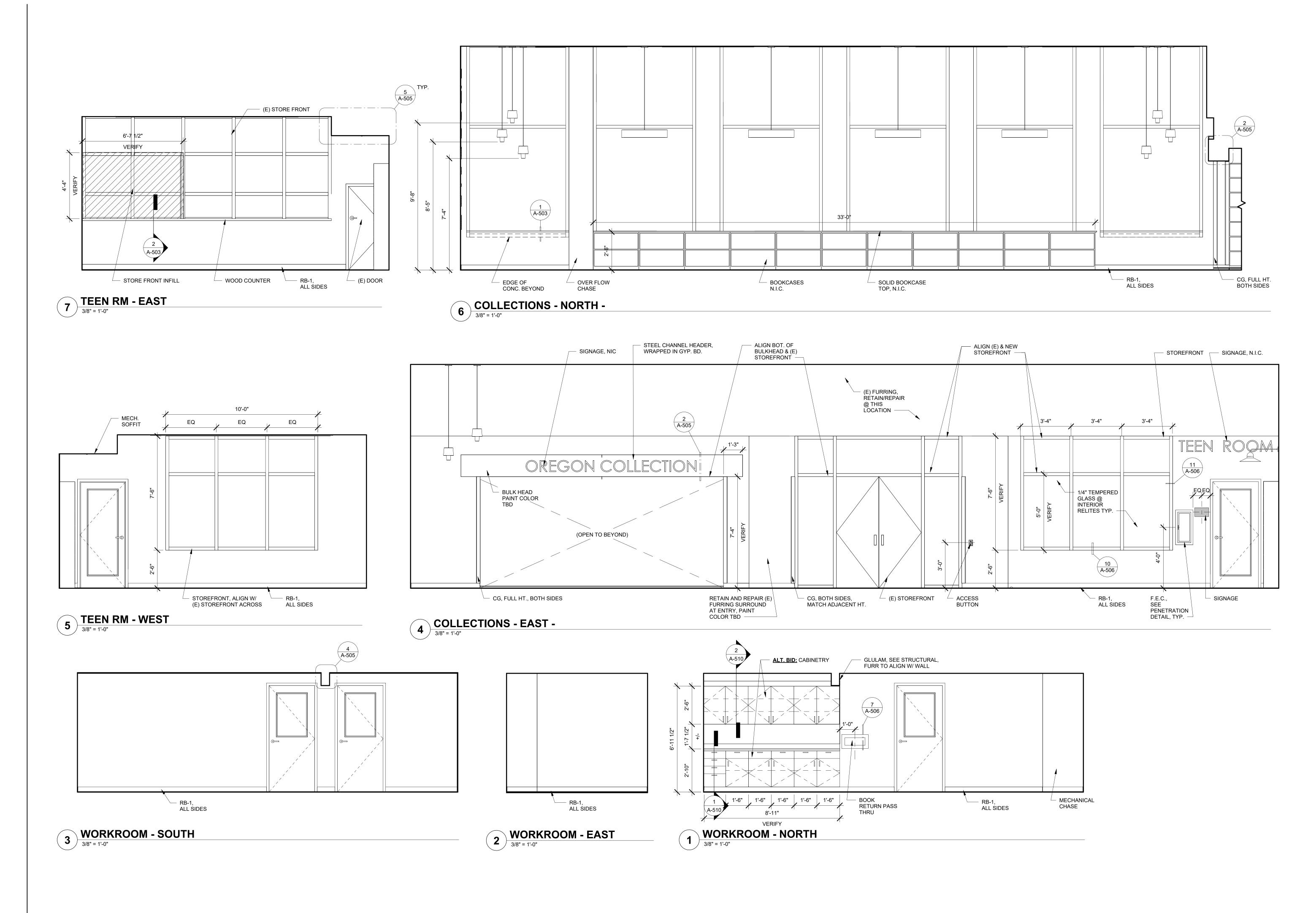


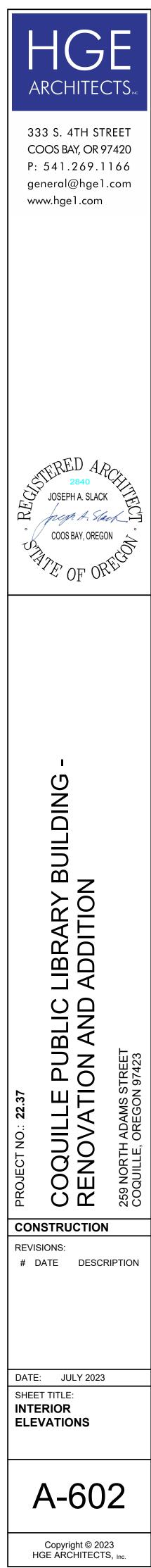


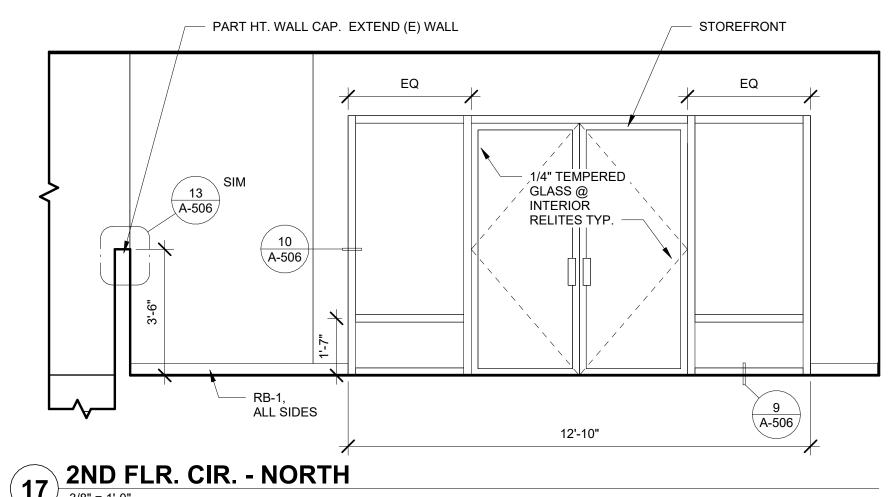


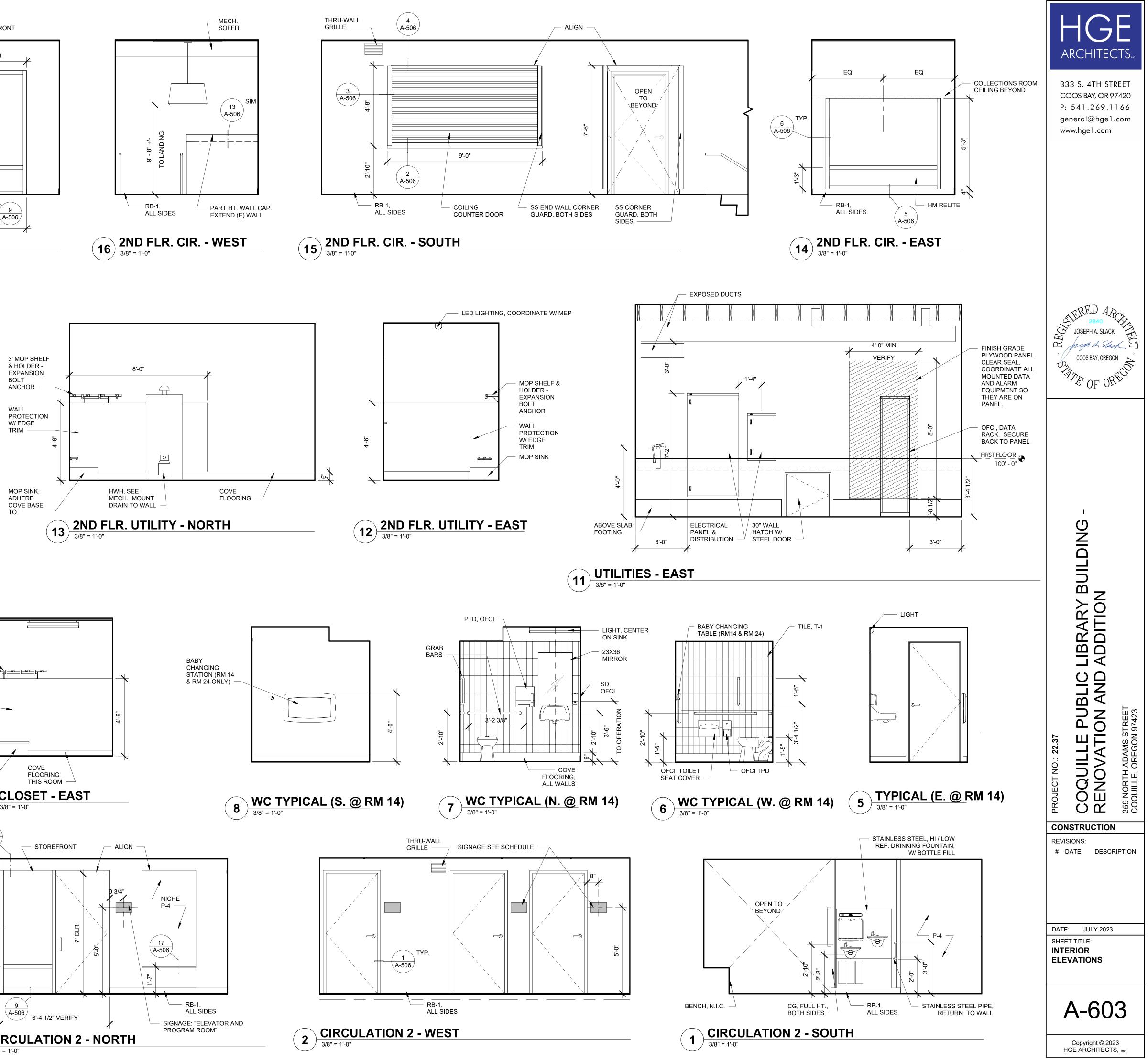
JOSEPHA. SLACK COOS BAY, OREGON OF OF OF COQUILLE PUBLIC LIBRARY BUILDING RENOVATION AND ADDITION 259 NORTH ADAMS STREET COQUILLE, OREGON 97423 CONSTRUCTION # DATE DESCRIPTION DATE: JULY 2023 SHEET TITLE: ELEVATIONS A-601 Copyright © 2023 HGE ARCHITECTS, Inc.

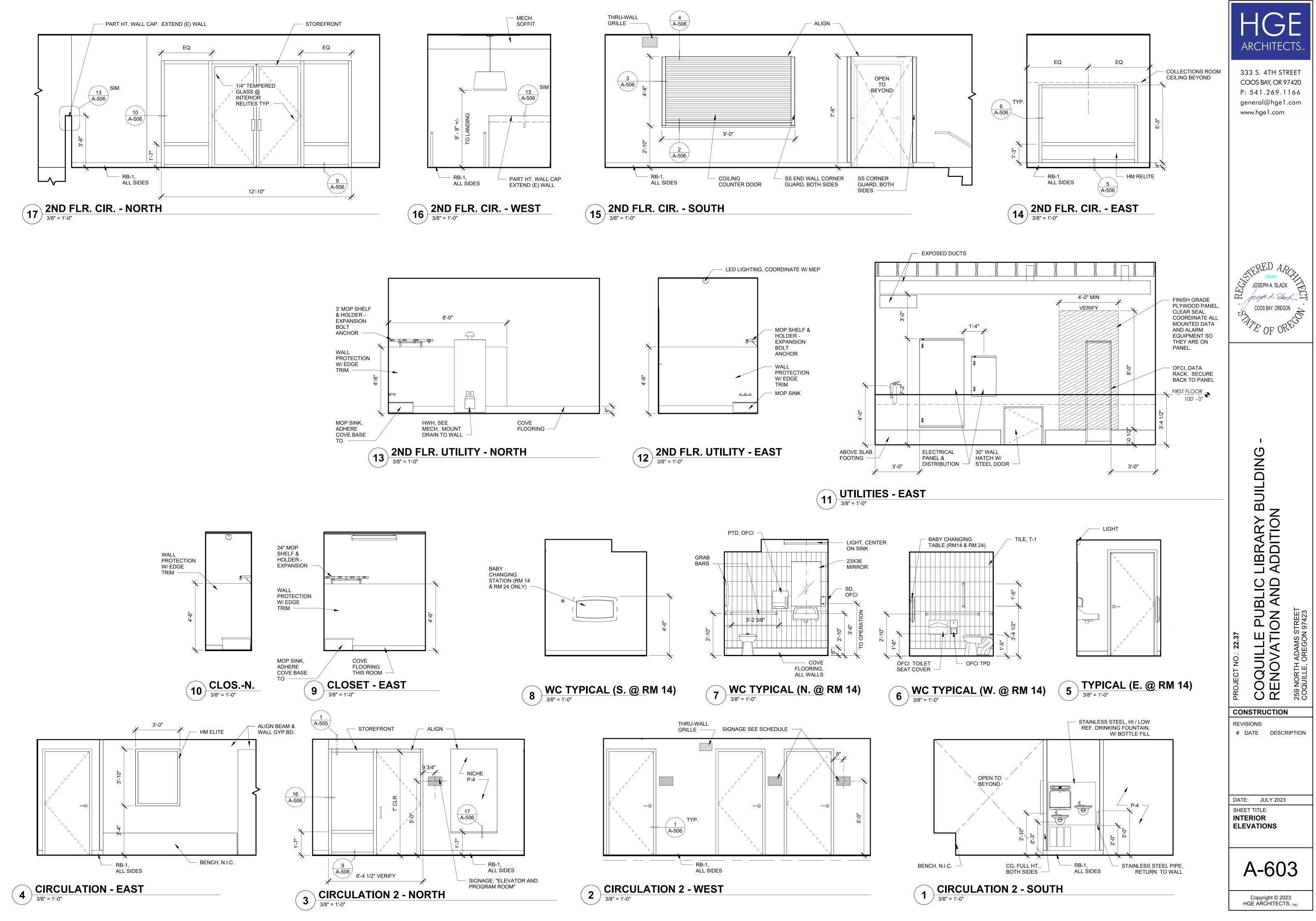
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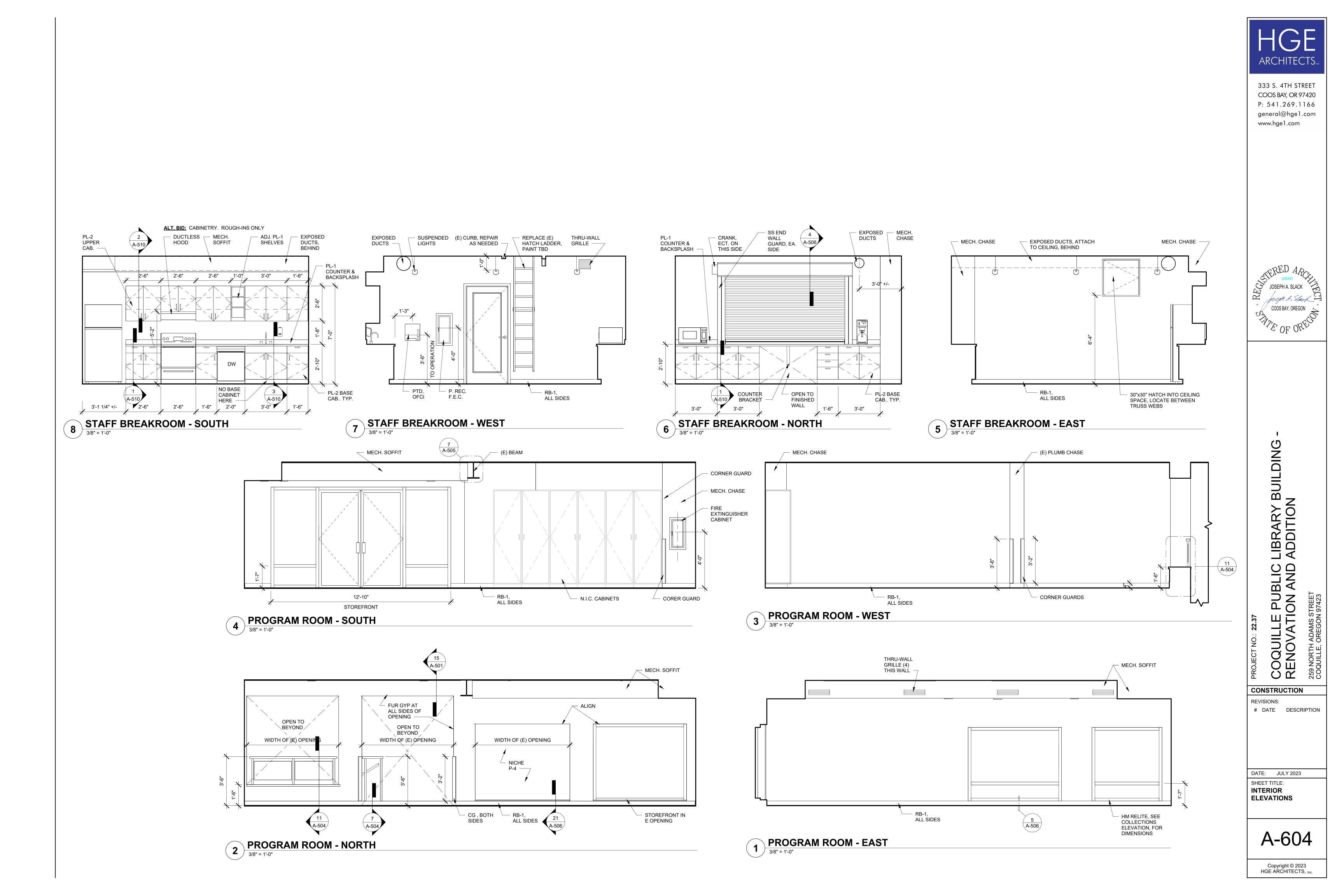












## **FINISH LIST**

BASIS OF DESIGN

LEGEND: FINISH ABBREVIATION PRODUCT TYPE MANUFACTURE

STYLE COLOR

ACOUSTIC SURFACES POLY MAX 1" THICK 2x4 WHITE AP-2 ADHERED ACOUSTIC CEILING PANEL ACOUSTIC SURFACES POLY MAX 1/2" THICK 2x4 WHITE AP-2 ADHERED ACOUSTIC CEILING PANEL ACOUSTIC SURFACES POLY MAX 1" THICK 4x4

AP-1 ADHERED ACOUSTIC CEILING PANEL

SILVER <u>CPT-1 (2 COLORS)</u> CARPET TILE MILLIKEN COASTLINE COLLECTION STYLE & COLORS TBD

<u>CPT-2 (2 COLORS)</u> CARPET TILE MILLIKEN COASTLINE COLLECTION STYLE & COLORS TBD

<u>LVT-1</u> VINYL PLANK MOHAWK GROUP MATUTO COO8 COLOR TBD

<u>P-1</u> INTERIOR PAINT COLOR TBD

<u>P-2</u> INTERIOR PAINT (CEILINGS TYP.) MATCH ACP

<u>P-3</u> INTERIOR PAINT COLOR TBD

<u>P-4</u> INTERIOR PAINT (ACCENT) COLOR TBD

P-5 INTERIOR PAINT (ACCENT) COLOR TBD

<u>P-6</u> EXTERIOR PAINT COLOR TBD

<u>P-7</u> EXTERIOR PAINT (ACCENT) COLOR TBD

<u>PL-1</u> PLASTIC LAMINATE WILSONART COLOR TBD

<u>PL-2</u> PLASTIC LAMINATE WILSONART COLOR TBD

<u>RB</u> RESILIENT BASE & SKIRTING ROPPE COLOR TBD

<u>RST/R</u> INTEGRAL STAIR TREAD RISER ROPPE SYMMETRY, #94 RAISED SQUARE COLOR TBD

<u>RS-1</u> HOMOGENEOUS SHEET FLOORING ARMSTRONG MEDI-SERIES

COLOR TBD <u>SSM</u> SOLID SURFACE WILSONART COLOR TBD

<u>T-1</u> WALL TILE DALTILE PERPETUO - SATIN 12X4 COLOR TBD

<u>WOT</u> WALK OFF TILE PATCRAFT BEYOND THE DOOR - PASEO COLOR TBD

WP WALL PROTECTION CS ACROVYN COLOR TBD

### **ROOM FINISH SCHEDULE**

Location		Floe	or		WEST			C	eiling	
ROOM NAME	No.	Floor Finish	Base	WALL (PAGE UP)	WALL (PAGE RIGHT)	WALL (PAGE DOWN)	WALL (PAGE LEFT)	Ceiling Finish	Finish Material	NOTES / REMARKS
EAST ENTRY	1	WOT-1	RB-1	P-3	NA	P-3	NA	P-3	. ,	PROTECT (E) SF
COLLECTIONS	2	CPT-1 & CPT-2	RB-1	P-1	P-1	P-1	P-1	P-2	1/2" GYP.BD & AP-2	
CPU STATIONS	3	CPT-1 & CPT-2	RB-1	P-1	P-1	P-1	P-1	P-2	1/2" GYP.BD & AP-2	
TEEN RM	4	CPT-1 & CPT-2	RB-1	P-1	P-1	P-4	P-1	P-2	AP-3 & GYP.BD.	
UTILITY CLOS.	4.1	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	
AULT COLLECTION	6	CPT-1 & CPT-2	RB-1	P-1	P-1	P-1	P-1	NA	AP-3	REFINISH (E) STAIR W/ INTEGRAL RUBBER TREAD / RISER (RST/R)
CIRC DESK	7	CPT-1 & CPT-2	RB-1	P-1 & P-4	-	-	-	NA	AP-1	
CIRC.	8	CPT-1 & CPT-2	RB-1	P-1	P-1	P-1	P-1	NA	AP-1	
ELEV. HALL	8.1	CPT / LVT	RB-1	P-1 & P-4	P-1	P-1	P-1	NA	AP-1	SEE PLAN FRO LVT LOCATION
WORK ROOM	9	LVT-1	RB-1	P-3	P-1	P-1	P-1	NA	AP-1	
CATALOGER	9.1	CPT-1 & CPT-2	RB-1	P-1	P-5	P-1	P-1	NA	AP-1	
YOUTH LIB. OFF.	9.2	CPT-1 & CPT-2	RB-1	P-1	P-1	P-1	P-5	NA	AP-1	
TEEN LIB. OFF.	10	CPT-1 & CPT-2	RB-1	P-1	P-5	P-1	P-1	NA	AP-1	
DIRECTOR	11	CPT-1 & CPT-2	RB-1	P-1	P-5	P-1	P-1	P-3	AP-1 & GYP.BD.	
WC	12	RS-1	INTEGRAL COVE	P-1	T-2	T-1	P-1	P-2	GYP.BD.	
WC	13	RS-1	INTEGRAL COVE	T-1	T-2	P-1	P-1	P-2	GYP.BD.	
WC	14	RS-1	INTEGRAL COVE	P-1	T-2	T-1	P-1	P-2	GYP.BD.	
NORTH ENTRY	15	WOT-1	RB-1	P-3	P-3	P-3	P-3	P-3	(E) PLASTER	PROTECT (E) SF
MOP CLOS.	16	LVT-1	INTEGRAL COVE	P-1	P-1	P-1 & WP-1	P-1 & WP-1	P-2	GYP.BD.	MOISTURE
ELEV. CONTROL CLOSET	17	СРТ	RB-1	P-1	P-1	P-1	P-1	P-2	GYP.BD.	
STORAGE	20	(E)	(E)	P-1	(E)	(E)	(E)	(E)	(E)	NO WORK, U.O.N. PAINT S. WALL
STAFF BREAK	21	LVT-1	RB-1	P-1	P-1	P-1	P-5	P-2	EXPOSED DECK	PAINT (E) STRUCTURE
2ND FLR CIRC.	22	CPT-1 & CPT-2	RB-1	P-1	P-4	P-1	P-3	NA	AP-3	STAIR PT. HIGH WALL COLOR TBD
2ND FLR CIRC	22.1	LVT-1	RB-1	P-1	P-4	P-1	P-1	NA	AP-1	
WC	23	RS-1	INTEGRAL COVE	T-1	T-2	P-1	P-1	P-2	GYP.BD.	
WC	24	RS-1	INTEGRAL COVE	P-1	T-2	T-1	P-1	P-2	GYP.BD.	
2ND FLR. UTILITY	25	RS-1	INTEGRAL COVE	P-1	P-1	P-1	P-1	P-2	EXPOSED DECK	PREP & PAINT (E) STRUCTURE
PROGRAM ROOM	26	CPT-1 & CPT-2	RB-1	P-1	P-3	P-1	P-1	P-2	AP-3 & GYP.BD.	
UTILITY	B1	SEAL CONC.	NONE	P-1	P-1	P-1	P-1	P-2	EXPOSED	PREP & PAINT (E) STRUCTURE
UTILITIES STOR	B1 B2	SEAL CONC.	NONE	P-1	P-1	P-1	P-1	P-2	(E)	
ELEV 1	E1	CPT	-	-	-	-	-	-	-	WALL AND CEILING FINISHES BY ELEVATOR MANU.
STAIR 1	S1	INTEGRAL RUBBER TREAD / RISER (RST/R)	RUBBER SKIRTING	P-1	P-4	P-1	NA	P-2	AP-3 & GYP.BD.	STAIR PT. HIGH WALL COLOR TBD. PREP STAIR FOR FLOORING PER MANU. SPECS.
STAIR 2	S2	CPT @ 1ST & 2ND FLRS	RB-1	P-1	P-4	P-1	P-1	P-2	AP-3	WOOD TREADS. RB-1 AT 1ST AND 2ND FLR. ONLY.

## **FINISH NOTES**

REPAIR ALL (E) TO REMAIN PLASTER AND SKIM TO LEVEL 5 FINISH PREP FLOOR FOR PROPER, FLUSH FLOORING INSTALL

PROVIDE WATER RESISTANT GYP BD IN ALL TOILET ROOMS

PROVIDE BACKERBOARD UNDER TILE.

PROVIDED LEVEL 5 FINISH ON ALL WALLS UNLESS (E) STRUCTURE IS FINISH MATERIAL. CARPET TILE LAYOUT PATTERN / CHANGE OF COLOR / STYLE TO BE DETERMINED / SUPPLIED BY ARCHITECT.

SEE ELEVATIONS AND REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION SEE RCP FOR LOCATIONS OF ACOUSTIC CEILING PANELS (AP).

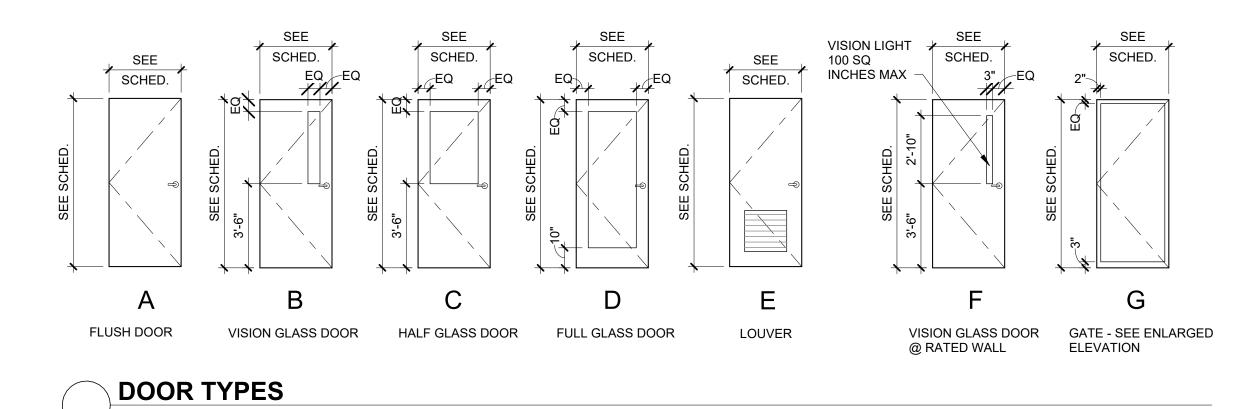
ACOUSTIC CEILING PANELS (AP) ARE NOT PAINTED. VERIFY LOCATIONS OF ACCENT PAINT PRIOR TO BEGINNING PAINTING 10.

PAINT ALL HM DOOR AND RELITE FRAMES TO MATCH WALL, U.O.N. 11.

ALL RESILIENT SHEET FLOORING SEAMS ARE TO BE HEAT WELDED 12. 13. SEE SIGNAGE SCHEDULE FOR INTERIOR SIGNS

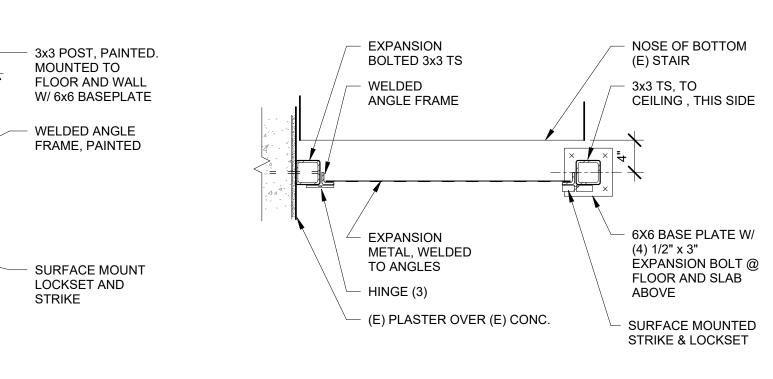
## DOOR SCHEDULE

Room Name	Door		Тур	Materi	Eromo	Hardware	D	etail Callo	ut	Remarks
Room Name	No.	Size (WxH)	е	al	Frame	Group	Sill	Jamb	Head	Remarks
	1			1			1	1		1
EAST ENTRY	1A	5' - 7" X 7' - 6"	(E)	(E)	(E)	HW - 26	-	-	-	EXISTING STOREFRONT - RETRO-FIT W/ PANIC CONTROL HARDWARE PER IBC 1010.2.9. PROVIDE THRESHOLD
EAST ENTRY	1B	5' - 7" X 7' - 4"	(E)	(E)	(E)	HW - 26	-	-	-	EXISTING STOREFRONT - RETRO-FIT W/ PANIC CONTROL HARDWARE PER IBC 1010.2.9. PROVIDE THRESHOLD
TEEN RM	4	3' - 0" X 7' - 0"	D	WD	HM	HW - 20	-	1/A-506	1/A-506	
TEEN RM	4.1	2' - 6" X 5' - 6"	(E)	(E)	(E)	HW - 20	-	-	-	EXISTING DOOR
VAULT COLLECTION	6	2' - 8" X 6' - 8"	G	STEEL	STEEL	HW - 30	-	2/A-701	-	GATE DOOR, SEE ELEVATION BELOW
ELEV. HALL	8.1	2' - 11 5/8" X 6' - 11 1/2"	D	ALUM	ALUM	HW - 27	9/A-506	16/A-506	1/A-505	ALUMINUM STOREFRONT - WITH PANIC DEVICE
CATALOGER	9.1	3' - 0" X 7' - 0"	С	WD	HM	HW - 2	-	1/A-506	1/A-506	
YOUTH LIB. OFF.	9.2	3' - 0" X 7' - 0"	С	WD	HM	HW - 2	-	1/A-506	1/A-506	
WORK ROOM	9A	3' - 0" X 7' - 0"	С	WD	НМ	HW - 10	-	1/A-506	1/A-506	
TEEN LIB. OFF.	10	3' - 0" X 7' - 0"	С	WD	НМ	HW - 10	-	1/A-506	1/A-506	
DIRECTOR	11	3' - 0" X 7' - 0"	С	WD	НМ	HW - 10	-	1/A-506	1/A-506	
WC	12	3' - 0" X 7' - 0"	Α	WD	HM	HW - 5	-	1/A-506	1/A-506	
WC	13	3' - 0" X 7' - 0"	А	WD	HM	HW - 5	-	1/A-506	1/A-506	
WC	14	3' - 0" X 7' - 0"	А	WD	HM	HW - 5	-	1/A-506	1/A-506	
NORTH ENTRY	15A	3' - 0" X 6' - 11 3/4"	(E)	(E)	(E)	HW - 26	-	-	-	EXISTING STOREFRONT - RETRO-FIT W/ PANIC CONTROL HARDWARE PER IBC 1010.2.9. PROVIDE THRESHOLD
NORTH ENTRY	15B	3' - 0" X 7' - 8 7/8"	(E)	(E)	(E)	HW - 26	-	-	-	EXISTING STOREFRONT - RETRO-FIT W/ PANIC CONTROL HARDWARE PER IBC 1010.2.9. PROVIDE THRESHOLD
MOP CLOS.	16	3' - 0" X 7' - 0"	А	WD	НМ	HW - 20	-	1/A-506	1/A-506	
ELEV. CONTROL CLOSET	17	3' - 0" X 7' - 0"	А	WD	HM	HW - 20	-	1/A-506	1/A-506	
STAFF BREAK	21A	3' - 0" X 7' - 0"	D	WD	HM	HW - 20	-	1/A-506	1/A-506	
STAFF BREAK	21B	8' - 6" X 4' - 8"	-	ALUM	ALUM	-	2/A-506	3/A-506	4/A-506	ROLLING COUNTER DOOR - ALTERNATE BID
STAFF BREAK	21C	2' - 6" X 2' - 6"	Α	MANUF.	MANUF.	-	MANUF.	MANUF.	MANUF.	ACCESS HATCH, PROVIDE LATCH
2ND FLR. UTILITY	22	3' - 0" X 7' - 0"	Α	WD	HM	HW - 20	-	1/A-506	1/A-506	
WC	23	3' - 0" X 7' - 0"	Α	WD	HM	HW - 5	-	1/A-506	1/A-506	
WC	24	3' - 0" X 7' - 0"	А	WD	HM	HW - 5	-	1/A-506	1/A-506	
PROGRAM ROOM	26	6' - 0" X 7' - 0"	D	ALUM	ALUM	HW-28	9/A-506	11/A-506	11/A-506	ALUMINUM STOREFRONT
UTILITIES	B1A	3' - 0" X 7' - 0"	А	WD	HM	HW - 20	-	1/A-506	1/A-506	"FIRE RISER" SIGN, 2" HIGH CONTRASTING LETTERING
UTILITIES	B1B	2' - 6" X 2' - 6"	А	MANUF.	MANUF.	-	MANUF.	MANUF.	MANUF.	ACCESS HATCH, PROVIDE LATCH
STOR	B2	2' - 6" X 7' - 0"	(E)	(E)	(E)	-	-	-	-	EXISTING DOOR TO REMAIN, PAINT

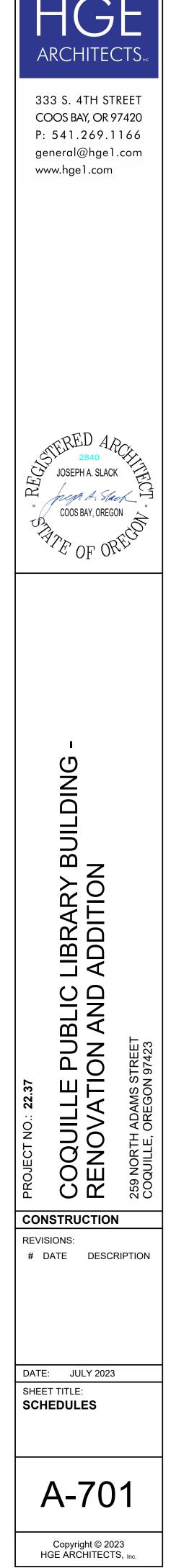


(E) SUSPENDED CEILING, W/ AP-3 3X3 TS, PAINTED, TBD, TYP. -(4) 1/4"X 6" COUNTERSUNK EXPANSION BOLT INTO (E) WALL – A-701 EXPANDED METAL SCREEN DOOR 2'-8" GATE ELEVATION 1

1/4" = 1'-0"







## STRUCTURAL - GENERAL NOTES

#### GENERAL REQUIREMENTS

<u>GOVERNING CODE</u>: The design and construction of this project is governed by the "Oregon Structural Special-ty Code (OSSC)", 2022 edition and the "International Existing Building Code (IEBC)", 2021 Edition as required by the OSSC, hereafter referred to as the OSSC and IEBC respectfully, as adopted and modified by the City of **Coquille, OR** understood to be the Authority Having Jurisdiction (AHJ).

NARRITIVE: The Coquille Library is an existing concrete building with a wood diaphragm, two mezzanines, one wood and one concrete, and continuous footings. The building is being remodeled and structurally evaluated per IEBC chapter 8.

REFERENCE STANDARDS: Refer to Chapter 35 of 2021 IBC. Where other Standards are noted in the drawings, use the latest edition of the standard unless a specific date is indicated. Reference to a specific section in a code does not relieve the contractor from compliance with the entire standard.

**DEFINITIONS**: The following definitions cover the meanings of certain terms used in these notes:

- (1) "Architect/Engineer" The Architect of Record and the Structural Engineer of Record.
- (2) "Structural Engineer of Record" (SER) The structural engineer who is licensed to stamp & sign the structural documents for the project. The SER is responsible for the design of the Primary Structural Sys-
- (3) "Submit for review" Submit to the Architect/SER for review prior to fabrication or construction.
- (4) "Per Plan" Indicates references to the structural plans, elevations and structural general notes.

SPECIFICATIONS: Refer to the project specifications issued as part of the contract documents for information supplemental to these drawings.

**OTHER DRAWINGS**: Refer to the architectural, mechanical, electrical, civil and plumbing drawings for additional information including but not limited to dimensions, elevations, slopes, door and window openings, non-bearing walls, stairs, finishes, drains, waterproofing, railings, elevators, mechanical unit locations, and other nonstructural

STRUCTURAL DETAILS: The structural drawings are intended to show the general character and extent of the project and are not intended to show all details of the work. Use entire detail sheets and specific details referenced in the plans as "typical" wherever they apply. Similarly, use details on entire sheets with "typical" in the name wherever they apply.

STRUCTURAL RESPONSIBILITIES: The structural engineer (SER) is responsible for the strength and stability of the primary structure in its completed form.

**COORDINATION:** The Contractor is responsible for coordinating details and accuracy of the work; for confirming and correlating all quantities and dimensions; for selecting fabrication processes; for techniques of assembly; and for performing work in a safe and secure manner.

**EXISTING CONDITIONS:** Information shown on the drawings related to existing conditions represent the present knowledge, but without guarantee of accuracy. Report conditions that conflict with contract documents to the architect or SER. Do not deviate from the contract documents without written direction from the architect and/or SER. All existing dimensions and information shall be field verified prior to fabrication as required to coordinate with new construction.

NEW CONSTRUCTION: The contractor shall remove all interfering items for new construction and shall repair or replace all removed items to match the existing conditions in accordance with the architectural drawings. New construction elements shall be designed and installed per current International Building Code 2021, hereafter referred to as IBC as allowed by IEBC.

MEANS, METHODS and SAFETY REQUIREMENTS: The contractor is responsible for the means and methods of construction and all job-related safety standards such as OSHA and DOSH (Department of Occupational Safety and Health. The contractor is responsible for means and methods of construction related to the intermediate structural conditions (i.e., movement of the structure due to moisture and thermal effects; construction sequence; temporary bracing, etc.).

BRACING/SHORING DESIGN ENGINEER: The contractor shall at their discretion employ an SSE, a registered professional engineer for the design of any temporary bracing and shoring.

**TEMPORARY SHORING. BRACING:** The contractor is responsible for the strength and stability of the structure during construction and shall provide temporary shoring, bracing and other elements required to maintain stability until the structure is complete. It is the contractor's responsibility to be familiar with the work required in the construction documents and the requirements for executing it properly.

**CONSTRUCTION LOADS**: Loads on the structure during construction shall not exceed the design loads as noted in DESIGN CRITERIA & LOADS below or the capacity of partially completed construction as determined by the Contractor's SSE for Bracing/Shoring.

CHANGES IN LOADING: The contractor has the responsibility to notify the SER of any architectural, mechanical, electrical, or plumbing load imposed onto the structure that differs from, or that is not documented on the original Contract Documents (architectural / structural / mechanical / electrical or plumbing drawings). Provide documentation of location, load, size and anchorage of all undocumented loads in excess of 400 pounds. Provide marked-up structural plan indicating locations of any new equipment or loads. Submit plans to the Architect/Engineer for review prior to installation.

NOTE PRIORITIES: Plan and detail notes and specific loading data provided on individual plans and detail drawings supplements information in the Structural General Notes.

DISCREPANCIES: In case of discrepancies between the General Notes, Specifications, Plans/Details or Reference Standards, the Architect/Engineer shall determine which shall govern. Discrepancies shall be brought to the attention of the Architect/Engineer before proceeding with the work. Should any discrepancy be found in the Contract Documents, the Contractor will be deemed to have included in the price the most expensive way of completing the work, unless prior to the submission of the price, the Contractor asks for a decision from the Architect as to which shall govern. Accordingly, any conflict in or between the Contract Documents shall not be a basis for adjustment in the Contract Price.

SITE VERIFICATION: The contractor shall verify all dimensions and conditions at the site. Conflicts between the drawings and actual site conditions shall be brought to the attention of the Architect/Engineer before proceeding with the work.

ALTERNATES: Alternate products of similar strength, nature and form for specified items may be submitted with adequate technical documentation (proper test report, etc.) to the Architect/Engineer for review. Alternate materials that are submitted without adequate technical documentation or that significantly deviate from the design intent of materials specified may be returned without review. Alternates that require substantial effort to review will not be reviewed unless authorized by the Owner.

ADDITIONS/ALTERATIONS/REPAIRS: Additions, alterations, and/or repairs to the existing structure has been analyzed for additional loading and/or modification due to the addition, the alteration or the repair. All affected existing member have been analyzed or reinforced as required per IEBC.

All Demolition or removal of architectural, mechanical or structural elements shall not damage structural items to remain.

### DESIGN CRITERIA AND LOADS

OCCUPANCY:	Risk Category of Building per 2021 IBC Table 1		Ш	
	<b></b>		1	
WIND DESIGN:	MAIN WIND FORCE RESISTING SYSTEM			
	Ultimate Design Wind Speed, $V_{\text{ULT}}$ (MPH)	95		
	Exposure Category	В		
	Internal Pressure Coefficient	Cpi =	+/- 0.18	
	Topographic Factor	1.0		
	Wind Analysis procedure used:		Directional	

<u>MIC</u> IGN:	Seismic Design Category: S	DC =	E
	Basic Structural System		Bearing Wall,
	Seismic Force Resisting System		Conc Shear Walls
	Site Classification per [IEBC 301.1.4.1] [IEBC 301.1.4.2 ASCE 41-13, Ch. 2.4 Site Class =	]&	D
	Basic Safety Earthquakes(BSE):		
	Spectral Acceleration:		•
	BSE-1E [BSE-1N], Life Safety		
	Spectral Response Acceleration (Short Period)	S <sub>xs</sub> =	0.437
	Spectral Response Acceleration (1-Second Period)	S <sub>x1</sub> =	0.26
	BSE-2E [BSE-2N], Collapse Prevention		•
	Spectral Response Acceleration (Short Period)	S <sub>xs</sub> =	1.322
	Spectral Response Acceleration (1-Second Period)	S <sub>x1</sub> =	0.949
	Design Base Shear (North/South Direction) (KIPS)		100
	Design Base Shear (North/South Direction) (KIPS)	100	
	Seismic Analysis procedure used:		Linear Static Proce- dure

SNOW LOAD: (1)	Flat Roof Snow Load, (PSF)	р <sub>f</sub> =	<b>25</b> <sup>(2)</sup>
	Snow Drift Loading required by Authority Having Jurisdiction?		Yes
	Snow Load Importance Factor	I <sub>s</sub> =	1.0 <sup>(3)</sup>
	Ground Snow Load, (PSF)	p <sub>g</sub> =	1
	Snow Exposure Factor	C $_{\rm e}$ =	В
	Thermal Factor	C <sub>t</sub> =	1.0
	See Roof Plan for Drift Loading		

(1) Snow Load is <u>un-reducible</u> and includes 5 psf rain-on-snow surcharge where ground snow load is greater than zero and 20 psf or less per ASCE 7-16 Section 7.10. (2) Snow Load based on SEAO Oregon Snow Loading (3) Snow Load Importance Factor per ASCE 7-16 Table 1.5-2.

<u>SIGN LIVE</u> ADS	AREA
	See structural loading p and line loads. Loads l miscellaneous items.
	Handrails & Pedestrian G
	Stairs & Exits
	Interior Walls and Partitio
	Lobbies
	Corridors at First Floor
	Offices
	Light Storage Area
	Roofs

SEIS DESI

- considered separately with worst case used for design. (2) Stair loading requirements:
  - be considered separately with worst case used for design.
  - deflection shall not exceed 1/360 of the span.
  - be designed to resist loads as specified in IBC Section 1607.8.

(3) Need not apply concurrently with other handrail and guardrail loads; applied over not more than 1 square foot. (4) Apply concentrated wheel load over 4-1/2"x4-1/2" square area.

(5) Floors for Business Group B (Offices) Occupancy shall be designed with a basic floor Live Load plus an additional 15 PSF (minimum) live loading for moveable partitions. (6) Unless otherwise noted, point loads to be distributed over a 2.5ft x 2.5ft area and located to produce maximum

load effects on structural members.

## SUBMITTALS

SUBMIT FOR REVIEW: SUBMITTALS of shop drawings, product data and mill tests are required for items noted in the individual materials sections and for bidder designed elements.

SUBMITTAL REVIEW PERIOD: Submittals shall be made in time to provide a minimum of TWO WEEKS or 10 WORKING DAYS for review by the Architect/Engineer prior to the onset of fabrication.

GENERAL CONTRACTOR'S PRIOR REVIEW: Prior to submission to the Architect/Engineer, the Contractor shall review the submittal for completeness. Dimensions and quantities are not reviewed by the SER, and therefore, must be verified by the General Contractor. Contractor shall provide any necessary dimensional details requested by the Detailer and provide the Contractor's review stamp and signature before forwarding to the Architect/ Engineer

SHOP DRAWING REVIEW: Once the contractor has completed their review, the SER will review the submittal for general conformance with the design concept and the contract documents of the building and will stamp the submittal accordingly. Markings or comments shall not be construed as relieving the contractor from compliance with the project plans and specifications, nor departures there from. The SER will return submittals in the form they are submitted in (either hard copy or electronic). For hard copy submittals, the contractor is responsible for submitting the required number of copies to the SER for review.

SHOP DRAWING DEVIATIONS: When shop drawings (component design drawings) differ from or add to the requirements of the structural drawings they shall be designed and stamped by the responsible SSE.

	LIVE LOADS (PSF) UNO	REMARKS & FOOT- NOTES (6)
plans for area loads listed below are for		
Guardrails	50 PLF or 200 LB	(1)
	100 PSF or 300 LB	Stair treads per note (2)
ons	5	Applied Horizontally
	100	2000 lbs
	100	
	50 + 15	2000 lbs (5)
	125	
	20 PSF or 300 LB	Area load is reducible. Point load per note (2), See above for Snow Load

(1) Top rail shall be designed to resist 50 PLF line load or 200 lb point load applied in any direction at any point. Intermediate rails (all those except the handrail), balusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 LB on an area not to exceed 1 ft square. These three loads are to be

> a. Treads: Stair treads shall be designed for 100 PSF live load or a 300 lb. concentrated load placed to produce maximum stress, whichever controls. The 300 lb concentrated load shall be placed over 2"x2" area at any point to produce maximum stress. Area load and concentrated load are to

> b. Stringers and Landings: Stringers and landings shall be designed for 100 PSF live load. Live load

. Railings: The completed handrail, guardrail, and supporting structure and their connections shall

d. Seismic Design Parameters: Stairs shall be designed as egress stairs with a seismic importance factor  $(I_p)=1.5$  unless otherwise noted by the Architect. The stair assembly and attachment to the main structure shall be designed for lateral loads per IBC Chapter 16 and ASCE 7-16 Section 13.3 "Seismic Demands on Non-structural Components."

e. <u>Deflection Compatibility</u>: Stair design shall account for the load effects generated by the primary structure's seismic inelastic story drifts as provided in the DESIGN CRITERIA AND LOADS section and as defined in ASCE 7-16 Section 12.8.6.

f. Anchorage to Concrete: Portions of the stair system anchored to concrete shall be designed for the overstrength ( $\Omega_{o}$ ) factor as defined in **ASCE 7-16 Table 13.5-1**.

### DEFERRED SUBMITTALS

#### BIDDER-DESIGNED ELEMENTS

Submit "Bidder-Designed" deferred submittals to the Architect and SER for review. The deferred submittals shall also be submitted to the city for approval, if required by the city. Design of prefabricated, "bidder designed", manufactured, pre-engineered, or other fabricated products shall com-

ply with the following requirements: (1) Design considers tributary dead, live, wind and earthquake loads in combinations required by IBC.

- (2) Design within the Deflection Limits noted herein and as specified or referenced in the IBC. (3) Design shall conform to the specifications and reference standards of the governing code.
- (4) Submittal shall include:
  - a. Calculations prepared, stamped and signed by the SSE demonstrating code conformance. b. Engineered component design drawings are prepared, stamped and signed by the SSE. c. Product data, technical information and manufacturer's written requirements and Agency ap-
  - provals as applicable. d. SSE may submit to the Architect/Engineer, a request to utilize relevant alternate design criteria
  - of similar nature and generally equivalency which is recognized by the Code and acceptable to the Authority Having Jurisdiction. Submit adequate documentation of design.

DEFLECTION	VERTICAL	LIMIT
LIMITS FOR SSE / BIDDER	Roof Members, Dead + Live or Snow or Wind, Total Load (TL) Deflection	L / 240, where (L is span length,inches)
DESIGNED	Roof, Live or Snow or Wind Load (RLL)	L / 360
ELEMENTS:	Floor Members, Total Load (TL) uno	L / 240
	Floor Live Load (LL) uno	L / 360
	HORIZONTAL	LIMIT and FOOTNOTE
	Members Supporting Masonry	L / 600 @ 0.7E or 0.7 x Cladding Wind (1)

(1) Wind Load is reducible to 0.42 times the Component and Cladding Loads per Table 1604.3 footnote f.

GENERAL CONTRACTOR'S PRIOR REVIEW: Once the contractor has completed their review of the SSE component drawings, the SER will review the submittal for general conformance with the design of the building and will stamp the submittal accordingly. Review of the Specialty Structural Engineer's (SSE) shop drawings (component design drawings) is for compliance with design criteria and compatibility with the design of the primary structure and does not relieve the SSE of responsibility for that design. All necessary bracing, ties, anchorage, proprietary products shall be furnished and installed per manufacturer's instructions or the SSE's design drawings and calculations. These elements include but are not limited to:

- (1) Handrails, Guardrails and Balcony Rail Anchorages
- (2) Attachment & bracing of MEP (3) Storefront

#### **INSPECTIONS, QUALITY ASSURANCE VERIFICATIONS AND TEST REQUIREMENTS**

INSPECTIONS: Foundations, footings, under slab systems and framing are subject to inspection by the Building Official in accordance with IBC 110.3. Contractor shall coordinate all required inspections with the Building Official.

<u>SPECIAL INSPECTIONS, VERIFICATIONS and TESTS</u>: Special Inspections, Verifications and Testing shall be done in accordance with IBC Chapter 17, the STATEMENT AND SCHEDULES OF SPECIAL INSPECTIONS listed in these drawings, and the AHJ STATEMENT OF SPECIAL INSPECTION.

STRUCTURAL OBSERVATION: per OSSC Section 1704.6

Structural Observation is the visual observation of the structural system by a registered design professional for general conformance to the approved construction documents. It is not always required on a project, does not include or waive the responsibility for the special inspections and tests required by a Special Inspector per IBC Chapter 17, is not continuous, and does not certify conformance with the approved construction documents.

Structural Observation for this project is not required per OSSC Section 1704.6.

CONTRACTOR RESPONSIBILITY: Prior to issuance of the building permit, the Contractor is required to provide the Authority Having Jurisdiction a signed, written acknowledgement of the Contractor's responsibilities associated with the above Statement of Special Inspections addressing the requirements listed in IBC Section 1704.4. Contractor is referred to IBC Sections 1705.12.5 and 1705.12.6 for architectural and MEP building systems that may be subject to additional inspections (based on the building's designated Seismic Design Category listed in the CRI-TERIA), including anchorage of HVAC ductwork containing hazardous materials, piping systems and mechanical units containing flammable, combustible or highly toxic materials, electrical equipment used for emergency or standby power, exterior wall panels and suspended ceiling systems.

#### SOILS AND FOUNDATION

REFERENCE STANDARDS: Conform to IBC Chapter 18 "Soils and Foundations."

CONTRACTOR'S RESPONSIBILITIES: Contractor shall be responsible to review the Geotechnical Report and shall follow the recommendations specified therein including, but not limited to, subgrade preparations, pile installation procedures, ground water management and steep slope Best Management Practices."

GEOTECHNICAL SUBGRADE INSPECTION: The Geotechnical Engineer shall inspect all sub-grades and prepared soil bearing surfaces, prior to placement of foundation reinforcing steel and concrete. Geotechnical Engineers shall provide a letter to the owner stating that soils are adequate to support the "Allowable Foundation Bearing Pressure(s)" shown below. Assumed values shall be field verified by the Building Official or the Geotechnical Engineer prior to placing concrete. candidates

DESIGN SOIL VALUES:

Safety Factor per Soils Report	1.5	
Allowable Foundation Bearing Pressure		PSF – Native
Passive Lateral Pressure	300	PSF/FT
Active Lateral Pressure (unrestrained)	35	PSF/FT
At-Rest Lateral Pressure (restrained)	55	PSF/FT
Seismic Lateral Pressure	8H	PSF
Coefficient of Sliding Friction	0.35	

FOUNDATIONS and FOOTINGS: Foundations shall bear on either on competent native soil or compacted structural fill as per the geotechnical report. Exterior perimeter footings shall bear not less than 18 inches below finish grade, unless otherwise specified by the building official.

FOOTING DEPTH: Tops of footings shall be as shown on plans with vertical changes as indicated with steps in the footings; locations of steps shown as approximate and shall be coordinated with the civil grading plans.

SLABS-ON-GRADE: All slabs-on-grade shall bear on compacted structural fill or competent native soil per Chapter 18 of the OSSC. All moisture sensitive slabs-on-grade or those subject to receive moisture sensitive coatings/ covering shall be provided with an appropriate capillary break and vapor barrier/retardant over the subgrade per barrier manufacturer's written recommendations and coordinated with the finishes specified by the Architect.

#### CAST-IN-PLACE CONCRETE

REFERENCE STANDARDS: Conform to:

 ACI 301-20 "Specifications for Structural Concrete" (2) IBC Chapter 19 "Concrete"

(3) ACI 318-19 "Building Code Requirements for Structural Concrete" (4) ACI 117-10 "Specifications for Tolerances for Concrete Construction and Materials"

FIELD REFERENCE: The contractor shall keep a copy of ACI Field Reference manual, SP-15, "Standard Specifications for Structural Concrete (ACI 301) with Selected ACI and ASTM References."

CONCRETE MIXTURES: Conform to ACI 301 Section 4 "Concrete Mixtures" and IBC Section 1904.1.

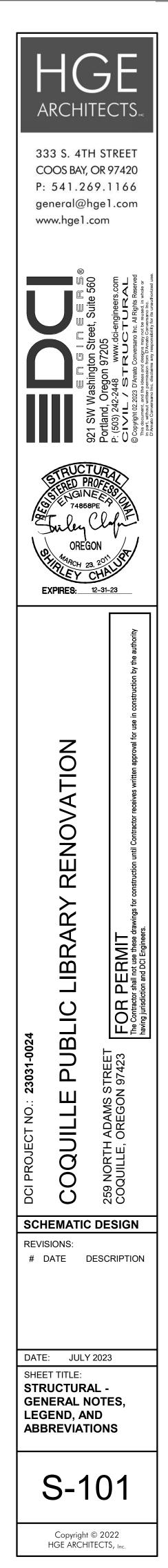
MATERIALS: Conform to ACI 301 Section 4.2.1 "Materials" for requirements for cementitious materials, aggregates, mixing water and admixtures.

SUBMITTALS: Provide all submittals required by ACI 301 Section 4.1.2. Submit mix designs for each mix in the table below. Substantiating strength results from past tests shall not be older than 24 months per ACI 318 Section 26.4.3.1 (b).

	DRAWING		)
MARK	DESCRIPTION	MARK	DESCRIPTION
F2.0	FOOTING SYMBOL (REFER TO SPREAD FOOTING SCHEDULE)	I	INDICATES WIDE FLANGE COLUMN
(P1)	PILE CAP SYMBOL (REFER TO PILE CAP SCHEDULE)		INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR TUBE STEEL (TS) COLUMN
1	TILT-UP/PRECAST CONCRETE WALL CONNECTION SYMBOL (REFER TO CONNECTION DETAIL)	0	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN
2W4	SHEAR WALL SYMBOL (REFER TO SHEAR WALL SCHEDULE)		INDICATES WOOD POST
RFI 00	REVISION TRIANGLE	•	INDICATES BUNDLED STUDS
1	TILT-UP/PRECAST CONCRETE WALL PANEL NUMBER (REFER TO TILT-UP/ PRECAST CONCRETE WALL ELEVATIONS)		INDICATES CONCRETE COLUMN
$\langle 1 \rangle$	CMU WALL REINFORCING SYMBOL (REFER TO CMU WALL REINFORCING SCHEDULE)		INDICATES PRECAST CONCRETE COLUMN
8"	CONTINUITY PLATE LENGTH (REFER TO TYPICAL DETAIL)	►	INDICATES MOMENT FRAME CONNECTION
	INDICATES DOUBLE SHEAR CONNECTION (REFER TO THE DOUBLE SHEAR PLATE CONNECTIONS DETAIL)		INDICATES CANTILEVER CONNECTION
00TB	INDICATES REINFORCING TYPE (REFER TO THE REINFORCING SCHEDULE)	•	INDICATES DRAG CONNECTION
(SR_)	INDICATES NUMBER OF STUD RAIL REQUIRED AT COLUMN (REFER TO STUD RAIL DETAILS)	<u>→ →</u>	INDICATES A LEDGER
$\langle 1 \rangle$	ROOF/FLOOR DIAPHRAGM NAILING SYMBOL (REFER TO DIAPHRAGM NAILING SCHEDULE)	÷•••••	INDICATES WOOD OR STEEL STUD BEARING WALL LINE PER KEY ON SHEET
C1 COLUMN SIZE	STEEL/CONCRETE COLUMN SYMBOL (REFER TO STEEL COLUMN SCHEDULE)		INDICATES WOOD OR STEEL STUD SHEAR WALL LINE AND HOLD-DOWNS PER KEY ON SHEET
	ELEVATION SYMBOL (T/ REFERS TO COMPONENT THAT THE ELEVATION REFERENCES)	\$2222	INDICATES MASONRY/CMU WALL
3	STUD BUBBLE (INDICATES NUMBER OF STUDS REQUIRED IF EXCEEDS NUMBER SPECIFIED IN PLAN NOTE)	<u> </u>	INDICATES CONCRETE/TILT-UP CONCRETE WALL
<u>\$</u>	INDICATES STEP IN FOOTING (REFER TO TYPICAL STEP IN FOOTING DETAIL)	\$\$	INDICATES BEARING WALL BELOW
X SX.X	DETAILS OR SECTION CUT (DETAIL NUMBER/SHEET NUMBER)	<u> </u>	INDICATES EXISTING WALL
	DETAILS OR SECTION CUT IN PLAN VIEW (DETAIL NUMBER/SHEET NUMBER)	<b>þ</b>	POST-TENSION DEAD END (PLAN)
XX/SXX.XX	INDICATES LOCATION OF CONCRETE WALLS, SHEAR WALLS OR BRACED FRAME ELEVATIONS	<b>← + →</b>	POST-TENSION STRESSING END (PLAN)
	STRUCTURAL EXTENT SYMBOL SINGLE ARROW - END OF EXTENT	<u>}</u>	POST-TENSION PROFILE (PLAN) (IN INCHES)
<del>- ()</del>	DOUBLE ARROW - CONTINUOUS EXTENT ALONG THE ELEMENT LINE UNTIL THE ELEMENT IS INTERRUPTED	<u>,                                     </u>	INTERMEDIATE STRESSING (PLAN)
	INDICATES DIRECTION OF DECK SPAN		
			1

## **ABBREVIATIONS**

L	Angle	FB	Factory-Built	PJP	Partial Joint Penetration
AB	Anchor Bolt	FD	Floor Drain	PREFAB	Prefabricated
ADDL	Additional	FDN	Foundation	PSF	Pounds per Square Foot
ADH	Adhesive	FIN	Finish	PSI	Pounds Per Square Inch
ALT	Alternate	FLR	Floor	PSL	Parallel Strand Lumber
ARCH	Architectural	FRP	Fiberglass Reinforced Plastic	P-T	Post-Tensioned
B or BOT	Bottom	FRT	Fire Retardant Treated	PT	Pressure Treated
3/	Bottom Of	FTG	Footing	R	Radius
BLDG	Building	F/	Face of	RD	Roof Drain
BLKG	Blocking	GA	Gage	REF	Refer/Reference
BMU	Brick Masonry Unit	GALV	Galvanized	REINF	Reinforcing
3P	Baseplate	GEOTECH	Geotechnical	REQD	Required
BRBF	Buckling Restrained	GL	Glue Laminated Timber	RET	Retaining
		GWB		SB	
	Braced Frame		Gypsum Wall Board		Site-Built
BRG	Bearing	HDR	Header	SCBF	Special Concentric
στων	Between	HF	Hem-Fir		Braced Frame
, ,	Camber	HGR	Hanger	SCHED	Schedule
В	Castellated Beam	HD	Hold-down	SER	Structural Engineer of
C'BORE	Counterbore	HORIZ	Horizontal		Record
CL or C	Centerline	HP	High Point	SFRS	Seismic Force-
LUI Q	Cross-Laminated Timber	HSS = TS	(Hollow Structural Section)	51110	Resisting System
				CUTUC	
CIP	Cast in Place	IBC	International Building Code	SHTHG	Sheathing
CJ	Construction or	ID	Inside Diameter	SIM	Similar
	Control Joint	IE	Invert Elevation	SLBB	Short Leg Back-to-Back
JP	Complete Joint	IF	Inside Face	SMF	Special Moment Frame
	Penetration	INT	Interior	SOG	Slab on Grade
CLR	Clear	k	Kips	SP	Southern Pine
CLG	Ceiling	KSF	Kips Per Square Foot	SPEC	Specification
CMU	Concrete Masonry Unit	LF	Lineal Foot	SQ	Square
COL	Column	LL	Live Load	SR	Studrail
CONC	Concrete	LLBB	Long Leg Back-to-Back	SF	Square Foot
CONN	Connection	LLH	Long Leg Horizontal	SST	Stainless Steel
CONST	Construction	LLV	Long Leg Vertical	STAGG	Stagger/Staggered
CONT	Continuous	LP	Low Point	STD	Standard
C'SINK	Countersink	LONGIT	Longitudinal	STIFF	Stiffener
CTRD	Centered	LSL	Laminated Strand Lumber	STL	Steel
			Laminated Strand Lumber		
AIC	Diameter	LVL		STRUCT	
DB	Drop Beam	MAS	Masonry	SWWJ	Solid Web Wood Joist
DBA	Deformed Bar Anchor	MAX	Maximum	SYM	Symmetrical
DBL	Double	MECH	Mechanical	Т	Тор
DEMO	Demolish	MEP	Mechanical, Electrical,	Τ/	Top Of
DEV	Development		Plumbing	T&B	Top & Bottom
DF	Douglas Fir	MEZZ	Mezzanine	TC AX LD	Top Chord Axial Load
DIAG	Diagonal	MFR	Manufacturer	TCX	Top Chord Extension
DIST	Distributed	MIN	Minimum	TDS	Tie Down System
DL	Dead Load	MISC	Miscellaneous	T&G	Tongue & Groove
DN	Down	NIC	Not In Contract	THKND	Thickened
00	Ditto	NLT	Nail-Laminated Timber	THRD	Threaded
DP	Depth/Deep	NTS	Not To Scale	THRU	Through
DWG	Drawing	OC	On Center	TRANSV	Transverse
	-	OCBF		TYP	
E)	Existing	UCDF	Ordinary Concentric Braced		Typical
A	Each	<u> </u>	Frame	UNO	Unless Noted Otherwise
F	Each Face	OD	Outside Diameter	URM	Unreinforced Masonry
L	Elevation	OF	Outside Face		Unit
LEC	Electrical	OPNG	Opening	VERT	Vertical
LEV	Elevator	OPP	Opposite	W	Wide
MBED	Embedment	OWSJ	Open Web Steel Joist	Ŵ/	With
			•	W/O	
	Equal	OWWJ	Open Web Wood Joist		Without
QUIP	Equipment	PL	Plate	WHS	Welded Headed Stud
EW	Each Way	PAF	Powder Actuated Fastener	WP	Working Point
EXP	Expansion	PC	Precast	WWF	Welded Wire Fabric
EXP JT	Expansion Joint	PERP	Perpendicular	±	Plus or Minus
EXT	1. · · · · · · · · · · · · · · · · · · ·	PLWD	Plywood		



#### TABLE OF MIX DESIGN REQUIREMENTS

Member Type/Location	Strength f'c (psi)	Test Age (days)	Nominal Maximum Aggregate	Exposure Class	Max W/C Ratio	Air Con- tent	Notes (1 to 8 Typical UNO)
Footings	4000	28	1"	-	-	-	-
Interior Slabs on Grade	3000	28	1"	-	-	-	-
Misc Interior Building Walls	4000	28	1"	-	-	-	-
Stem Walls & Curbs (Not Exposed)	3500	28	1"	-	0.55	4 1⁄2%	-

Table of Mix Design Requirements Notes:

(1) W/C Ratio: Water-cementitious material ratios shall be based on the total weight of cementitious materials. Maximum ratios are controlled by strength noted in the Table of Mix Design Requirements and durability requirements given in ACI 318 Section 19.3.

- (2) Cementitious Materials:
- DCI encourages the reduction of cement content and/or the use of blended hydraulic cements. Where requirements of this section prohibit inclusion of any of these mixes, contact DCI for further coordina-
- The use of fly ash, other pozzolans, silica fume, or slag shall conform to ACI 318 Sections 19.3.2 and 26.4.2.2.
- For concrete used in elevated floors, minimum cementitious-materials content shall conform to ACI 301 Table 4.2.1.1.(b) Acceptance of lower cement content is contingent on providing supporting data to the SER for review and acceptance. Cementitious materials shall conform to the relevant ASTM standards listed in ACI 318 Section
- 26.4.1.1.1(a). (3) Air Content; Conform to ACI 318 Section 19.3.3.1. Minimum standards for exposure class are noted in the table. If freezing and thawing class is not noted, air content given is that required by the SER. Tolerance is ±1-1/2%. Air content shall be measured at point of placement.
- (4) Aggregates shall conform to ASTM C33.
- (5) Slump: Conform to ACI 301 Section 4.2.2.1. Slump shall be determined at point of placement.
- (6) Chloride Content: Conform to ACI 318 Table 19.3.2.1.
- (7) Non- chloride accelerator: Non-chloride accelerating admixture may be used in concrete placed at ambient temperatures below 50°F at the contractor's option.
- (8) ACI 318, Section 19.3.1.1 exposure classes shall be assumed to be F0, S0, W0, and C0 unless different exposure classes are listed in the Table of Mix Design Requirements that modify these base requirements.

FORMWORK & RESHORING: Conform to ACI 301 Section 2 "Formwork and Form Accessories." Removal of Forms shall conform to Section 2.3.2 except strength indicated in Section 2.3.2.5 shall be 0.75 f' c.

MEASURING, MIXING, AND DELIVERY: Conform to ACI 301 Section 4.3.

HANDLING, PLACING, CONSTRUCTING AND CURING: Conform to ACI 301 Section 5. In addition, hot weather concreting shall conform to ACI 305R-20 and cold weather concreting shall conform to ACI 306R-16.

CONSTRUCTION JOINTS: Conform to ACI 301 Sections. 2.2.2.5 and 5.3.2.6. Construction joints shall be located and detailed as on the construction drawings. Submit alternate locations per ACI 301 Section 5.1.2.3(a) for review and approval by the SER two weeks minimum prior to forming. Use of an acceptable adhesive, surface retardant, portland cement grout or roughening the surface is not required unless specifically noted on the drawings.

EMBEDDED ITEMS: Position and secure in place expansion joint material, anchors and other structural and nonstructural embedded items before placing concrete. Contractor shall refer to mechanical, electrical, plumbing and architectural drawings and coordinate other embedded items.

POST-INSTALLED ANCHORS to CONCRETE: Anchor location, type, diameter and embedment shall be as indicated on drawings. Reference the POST INSTALLED ANCHORS section for applicable Post-Installed Anchor Adhesives. Anchors shall be installed and inspected in strict accordance with the applicable ICC-Evaluation Service Report (ESR). Special inspection shall be per the TESTS and INSPECTIONS section.

SHRINKAGE: Conventional and post-tensioned concrete slabs will continue to shrink after initial placement and stressing of concrete. Contractor and subcontractor shall coordinate jointing and interior material finishes to provide adequate tolerance for expected structural frame shrinkage and shall include, but not be limited to curtain wall, dryvit, storefront, skylight, floor finish, and ceiling suppliers. Contact Engineer for expected range of shrinkage.

#### STRENGTH TESTING AND ACCEPTANCE:

- Testing: Obtain samples and conduct tests in accordance with ACI 301 Section 1.7.3.3. Additional samples may be required to obtain concrete strengths at alternate intervals than shown below. (1) Cure 4 cylinders for 28-day test age. Test 1 cylinder at 7 days, test 2 cylinders at 28 days, and hold 1 cylinder in reserve for use as the Engineer directs. After 56 days, unless notified by the Engineer to the contrary, the reserve cylinder may be discarded without being tested for specimens meeting 28-day strength requirements.
- (2) The number of cylinders indicated above reference 6 by 12 in cylinders. If 4 by 8 in cylinders are to be used, additional cylinders must be cured for testing of 3 cylinders at test age per the table of mix design requirements.
- Acceptance. Strength is satisfactory when:
- (1) The averages of all sets of 3 consecutive tests equal or exceed the specified strength.
- (2) No individual test falls below the specified strength by more than 500 psi.
- A "test" for acceptance is the average strength of two 6 by 12 in. cylinders or three 4 by 8 in. cylinders tested at the specified test age.

CONCRETE PLACEMENT TOLERANCE: Conform to ACI 117-10 for concrete placement tolerance.

#### CONCRETE REINFORCEMENT

REFERENCE STANDARDS: Conform to: (1) ACI 301-20 "Standard Specifications for Structural Concrete", Section 3 "Reinforcement and Reinforcement Supports." (2) ACI SP-66(04) "ACI Detailing Manual"

- (3) CRSI MSP-09, 28<sup>th</sup> Edition, "Manual of Standard Practice."
- (4) ANSI/AWS D1.4: 2005, "Structural Welding Code Reinforcing Steel."
- (5) IBC Chapter 19-Concrete. (6) ACI 318-19 "Building Code Requirements for Structural Concrete."
- (7) ACI 117-10 "Specifications for Tolerances for Concrete Construction and Materials"

SUBMITTALS: Conform to ACI 301 Section 3.1.2 "Submittals." Submit placing drawings showing fabrication dimensions and placement locations of reinforcement and reinforcement supports.

#### MATERIALS:

Reinforcing Bars	ASTM A615, Grade 60, deformed bars.
	ASTM A706, Grade 60, deformed bars.
Smooth Welded Wire Fabric	. ASTM A1064
Deformed Welded Wire Fabric	. ASTM A1064
Bar Supports	. CRSI MSP-09, Chapter 3 "Bar Supports."
Tie Wire	. 16 gage or heavier, black annealed.
Stud Rails	
Headed Deformed Bars	. ASTM A970

FABRICATION: Conform to ACI 301, Section 3.2.2. "Fabrication", and ACI SP-66 "ACI Detailing Manual."

WELDING: Bars shall not be welded unless authorized. When authorized, conform to ACI 301, Section 3.2.2.2. "Welding", AWS D1.4, and provide ASTM A706, grade 60 reinforcement.

PLACING: Conform to ACI 301, Section 3.3.2 "Placing." Placing tolerances shall conform to ACI 117.

CONCRETE COVER: Conform to the following cover requirements unless noted otherwise in the drawings. oncrete cast against earth.

Concrete exposed to earth or weather	2"
Ties in columns and beams	
Bars in slabs	
Bars in walls	
Exterior bars in Tilt-up Panels	1"

Reinforcement Location	Minimum Cover	Rebar Protection
Footing Bottom Reinforcing	3"	Uncoated
Footing Top Reinforcing	2"	Uncoated
Slab-on-Grade Reinforcing	2" from top	Uncoated

SPLICES: Conform to ACI 301, Section 3.3.2.7, "Splices". Refer to "Typical Lap Splice and Development Length Schedule" for typical reinforcement splices. Splices indicated on individual sheets shall control over the schedule. Mechanical connections may be used when approved by the SER. For reinforcing within the lateral system and reinforcing connecting the diaphragm slab to the lateral system, mechanical splice strength is increased to develop 125 percent of the specified tensile strength of the splices bar.

FIELD BENDING: Conform to ACI 301 Section 3.3.2.8. "Field Bending or Straightening." Bar sizes #3 through #5 may be field bent cold the first time. Subsequent bends and other bar sizes require preheating. Do not twist bars. Bars shall not be bent past 45 degrees.

TYPICAL CONCRETE REINFORCEMENT: Unless noted on the plans, concrete walls shall have the following minimum reinforcement. Contractor shall confirm minimum reinforcement of walls with SER prior to rebar fabrica-

Т	ABLE of MINIMUM			
	Wall Thickness	HORIZONTAL Bars	VERTICAL Bars	Location
	6"	#4 @ 12" OC	#4 @ 12" OC	center in wall
	8"	#5 @ 12" OC	#5 @ 12" OC	center in wall
	10"	#4 @ 16" OC EF	#4 @ 16" OC EF	EF = each face
	12"	#4 @ 12" OC EF	#4 @ 12" OC EF	EF = each face

#### **REINFORCED UNIT MASONRY**

REFERENCE STANDARDS: Conform to:

- (1) IBC Chapter 21 "Masonry."
- (2) TMS 402-16 "Building Code Requirements for Masonry Structures." (3) TMS 602-16 "Specification for Masonry Structures."

SUBMITTALS: Conform to TMS 602-16 Section 1.5. Submit shop drawings for review including:

- (1) Masonry reinforcement, size, layout, and grade in accordance with plans.
- with required strength, grade and ASTM standards.
- (3) Mix Designs for each Grout Mix indicating type and proportions of ingredients in compliance of Proportion
- Specification. Location of expansion and control joints.
- (5) Product Information, ICC ESR Reports and Material Certifications certifying compliance for all non-preapproved Post-Installed Anchors.

#### STRENGTH: The assumed compressive strength of the masonry assemblage, f'm, is 2000 psi based on TMS 602-16 Section 1.4B for concrete and clay masonry.

#### MATERIALS:

- (2) Mortar: Conform to ASTM C270, Type S, and IBC Section 2103.2 "Mortar."
- 2.7A.
- (5) Joint Reinforcement: Conform to ASTM A951 and IBC Section 2103.4.
- (7) <u>Water:</u> Shall be clean and potable.
- (8) <u>Admixtures</u>: Admixtures shall not be used unless approved by SER.
- Post-Installed Anchors to Masonry.

- above and ASTM C-90-14.
- Mortar: No mortar testing is required.

(3) Grout: A letter of certification from the supplier of the grout shall be provided to the SER prior to delivery of the grout to the jobsite to ensure that the grout complies with ASTM C 476.

DELIVERY. STORAGE AND HANDLING: Delivery, storage and handling of materials used for masonry construction shall be per TMS 602-16, Section 1.7

the STRUCTURAL GENERAL NOTES.

ANCHORS, TIES AND CONNECTORS: Masonry anchors, ties and connectors shall be as specified on structural drawings. Consult architectural drawings for masonry anchor ties not included on the structural drawings.

EMBEDDED ITEMS: Embedded Items and Accessories shall be in accordance with MSJC Section 6.1 and installed in accordance with TMS 602-16 Section 3.3D. Position and Secure in place expansion joint material, anchors and other structural and non-structural embedded items before placing grout. Contractor shall refer to structural, architectural, mechanical, electrical, plumbing, etc. and coordinate all embedded items.

POST-INSTALLED ANCHORS to MASONRY: Anchor location, type, diameter and embedment shall be as indicated on drawings. Reference the POST INSTALLED ANCHORS section for applicable Post-Installed Anchor Adhesives. Anchors shall be installed and inspected in strict accordance with the applicable ICC-Evaluation Service Report (ESR). Special inspection shall be per the TESTS and INSPECTIONS section.

MASONRY REINFORCING STEEL: Masonry reinforcing shall be as noted on plans and shall be securely placed in accordance with IBC Sections 2106, [2107, and 2108] and TMS 602-16 Section 6.1. Masonry shall be constructed within the tolerances specified in the TMS 602-16. Unless otherwise noted on the plans, the minimum wall reinforcement shall be as follows:

### TABLE of MINIMUM REINFORCING

Wall Thickness	Vertical Bars	Running Bond	Stack Bond Hor-
4"	#4 @ 16" OC	#4 @ 32" OC	#4 @ 32"OC
6"	#5 @ 24" OC	#5 @ 32" OC	#6 @ 40"OC
8"	#5 @ 24" OC	(2) #4 @ 48" OC	(2) #5 @ 48"OC
12"	#6 @ 32" OC	(2) #5 @ 48"OC	(2) #6 @ 48"OC

Bond beams with horizontal bar or bars shall be provided at 48 inches on center and at all floor and roof lines and at the top of the wall. Provide a bond beam with horizontal bar or bars over all openings and extend these bars 2'-0" past the opening at each side. Provide a bar or bars vertically for the full height of the wall at each side of openings, wall ends and intersections. Dowels to masonry walls shall be embedded a minimum of 1'-6" or hooked into the supporting structure and be of the same size and spacing as wall reinforcing. Reinforcing steel shall be as specified under "MATERIALS" Section. Provide corner bars to match the horizontal wall reinforcing at wall intersections. All bars shall be lapped a minimum 48 diameters or 1'-6" minimum unless noted on the plans.

#### CAST-IN-PLACE CONCRETE COVER AND REINFORCING PROTECTION: Conform to the following cover and corrosion protection requirements unless noted otherwise in the drawings:

(4) ACI SP-66 "ACI Detailing Manual" including ACI 315 "Details and Detailing of Concrete Reinforcement." (5) ANSI/AWS D1.4 "Structural Welding Code - Reinforcing Steel."

(2) Material certificates for all Steel Reinforcing, Anchors, Ties and Metal Accessories certifying compliance

(1) Concrete Masonry Units: Conform to ASTM C-90, medium weight (approx. 115 PCF) units. Provide 2000 psi compressive strength to achieve masonry assembly strength indicated above under STRENGTH.

(3) Grout: Conform to ASTM C476 and IBC Section 2103.3 Proportion Specifications.

(4) Reinforcing Bars: Conform to ASTM A615, Grade 60 deformed bars and IBC Section 2103.4 unless noted otherwise. Lap Splices shall be as noted on plans. Fabrication shall be in accordance with TMS 602-16

(6) Anchors, Ties and Accessories: Conform to IBC Section 2103.4 and TMS 602-16 Section 2.4D.

(9) Post-Installed Anchors in MASONRY: Reference the POST- INSTALLED ANCHORS section for applicable

(10)Second-Hand Units: Shall not be used unless approved by SER.

QUALITY ASSURANCE (f'm=2000 psi): Conform to IBC Section 2105 "Quality Assurance".

(1) Masonry Units: A letter of certification from the manufacturer of the units shall be provided to the SER prior to the delivery of the units to the jobsite to ensure the units comply with the compressive strength specified

SPECIAL INSPECTION: Special Inspections shall be performed per the "TESTS AND INSPECTIONS" section of

LINTELS: Reinforced masonry lintels to be installed over all openings unless otherwise indicated on drawings. Do not splice reinforcing bars within lintels and maintain 8-inch bearing minimum on each side. Unless otherwise noted on the plans, the minimum reinforcement for lintels in 8" masonry shall be as follows:

### (1) Openings up to 42 inches wide: (2) #4 at bottom web of 8-inch-deep lintel. (2) Openings 42 to 78 inches wide: (2) #4 at bottom web of 16-inch-deep lintel. 3) Openings over 78 inches wide: Reinforce per drawings

CONSTRUCTION: Masonry shall be constructed in accordance with IBC Section 2104 "Construction", and TMS 602-16 Part 3 "Execution."

<u>COLD AND HOT WEATHER CONSTRUCTION</u>: Cold and hot weather construction shall be in accordance with TMS 602-16 Section 1.8C and 1.8D.

BLOCK PATTERN: Use running bond unless noted. For stack bond, follow criteria in TMS 402-16 Section 4.5. GROUTED CELLS: Fill those cells which contain reinforcing steel with grout unless noted otherwise on plans.

Minimum grouting spaces and construction shall be in accordance with TMS 402-16 Section 3.2 and TMS 602-16 Section 3.5.

GROUT POUR HEIGHT: Grout Pour Height shall not exceed height specified in TMS 602-16 Section 3.5C. (1) Masonry blocks shall be adequately braced to withstand fluid pressures of Grout Pour, see temporary bracing.

GROUT LIFTS: Unless otherwise noted, Grout Lifts and pour height shall not exceed 5ft 4in. Grout Lifts shall not exceed spacing of intermediate reinforced bond beams. Grout Lifts exceeding 5ft 4in shall be approved by SER.

#### REINFORCING COVER AND CLEARANCE REQUIREMENTS: Unless otherwise noted:

Clear distance between parallel bars (and between adjacent pairs of lap spliced bars) shall be equal to the adjacent bar diameter (for bars greater than #8), and not less than:

- 1" at 8" and smaller block, (2) 2" at 10" block
- (3) 3" at 12" block
- Clearance (clear space) between the block and the reinforcing shall be: (1) <sup>1</sup>/<sub>4</sub>" at fine grout

(2) <sup>1</sup>/<sub>2</sub>" at course grout. Masonry Cover (including grout and block wall) at masonry face exposed to earth or weather shall be: (1) 1 1/2" minimum (2) 2" for bars #6 and larger.

CONTROL AND EXPANSION JOINTS: Reference Drawings for typical details of Masonry Control and Expansion Joints. Location of control and expansion joints shall be approved by SER. Unless otherwise indicated on drawings, install control and expansion joints at the following:

(1) Continuous Walls: Vertical joints at the lesser of 1.5 times the wall height or 25 feet on center maximum. (2) Corners and Intersecting Walls: First vertical joint from the corner at lesser of 1.25 times the wall height or 16

(3) Abrupt changes in wall height and wall thickness, such as adjacent to columns or pilasters.

TEMPORARY BRACING: Contractor is responsible for all temporary bracing of masonry during construction. Reference "CONTRACTOR RESPONSIBILITIES" section for further information and requirements.

#### BRICK VENEER

**REFERENCE STANDARDS:** Conform to:

- IBC Chapter 14 "Exterior Walls."
- (2) TMS 402-16 "Building Code Requirements for Masonry Structures." (3) TMS 602-16 "Specification for Masonry Structures."
- SUBMITTALS: Submit product specific information on anchor size, type and capacities with corresponding ICC-ESR reports regarding wire ties, sheet metal connector pieces, screws, and expansion anchors to the Architect/

Engineer for review.

(1) BRICK VENEER: Conform to ASTM C216 "Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)", Grade MW.

- (2) Mortar: Conform to ASTM C270, Type S, and IBC Section 2103.2 "Mortar."
- (3) JOINT REINFORCING: Conforms to ASTM A951 "Standard Specification for Steel Wire for Masonry Joint Reinforcement". All joint reinforcing shall be hot dip galvanized.
- (4) ANCHORS: Anchor ties shall be the Hohmann & Barnard seismic anchors. Anchor ties shall be adjustable two-piece anchors made of 14 gage or 12 gage galvanized metal and/or W2.8 (3/16" diameter) galvanized wire that shall be engineered to attach:
  - a. to the face of Masonry or concrete with a 1/4" expansion bolt or screw anchor for concrete or ma-
  - sonry embedded 2" minimum into the concrete or masonry.
  - b. to steel stud with two #12 (0.209" diameter) screws per anchor. c. to wood stud with two #9 (0.177" diameter) screws per anchor embedded at least 1 1/4" into the
  - wood stud. d. or at channel slot anchor assemblies with a 305 Dovetail Anchor Slot embedded in the concrete and a 303 SV Seismic Notch Dovetail Anchor.
- All parts of the veneer anchorage system shall be fabricated of similar metals with similar coatings to reduce the possibility of galvanic corrosion occurring.

Brick veneer in Seismic Design Category A, B, and C and all brick veneer not laid in a running bond pattern shall have continuous joint reinforcing of W1.7 (0.148" diameter) wires at a maximum vertical spacing of 20"oc. Lap wires 10" at splices.

Brick veneer in Seismic Design Category D, E and F and all brick veneer not laid in a running bond pattern shall have continuous joint reinforcing of W1.7 (0.148" diameter) wires at a maximum vertical spacing of 16"oc. Lap wires 10" at splices.

Pintle anchors shall have at least two pintle legs of wire size W2.8 (3/16" diameter) each and shall have an offset not exceeding 1/2" from the horizontal plane of the plate anchored to the structure.

Anchors in Seismic Design Category D, E and F shall have a positive mechanical connection to the continuous wire joint reinforcing in the veneer

Both wire and sheet-metal anchors shall extend into the veneer a minimum of 11/2" and shall have a minimum of 5/8" mortar cover on the outside face.

All anchors shall adjust 1-¼" up or down to allow for different course heights and shall allow at least ½" horizontal in-plane and <sup>3</sup>/<sub>4</sub>" vertical in-plane movement to accommodate expansion, contraction, shrinkage and other move-

Coordinate expansion joint locations with the architect prior to erection. Typically, expansion joints should be installed at 24" from corners on one side of the corner, at intersecting walls, at changes in wall height, at changes in wall thickness and at 20' maximum on center.

CONSTRUCTION OVER STUDS: When applied over wood or metal stud construction, the studs shall be spaced a maximum of 16 inches on centers and approved paper shall first be applied over the sheathing or wires between studs except as otherwise provided in IBC Sections 1402-1405. An air space of at least [1-2] inch should be maintained between the backing and the veneer. The air space must be kept free and clear of debris and mortar droppings.

BRICK PANELS: The panel manufacturer is responsible for the design of the panels and their connection to the primary structure. Edge beams have been designed for vertical load only. The panel manufacturer shall provide braces and ties to account for load eccentricities and lateral forces. The maximum vertical load and location of the bearing points is noted on the drawings. Brick panel shop drawings shall indicate the magnitude and location of all loads imposed onto the primary structure. The panel manufacturer engineer shall be responsible for verifying that panel bracing or ties are attached to the primary structure in such a manner that their forces do not cause any distress to the primary structure. Where necessary, additional structural elements shall be provided by the panel manufacturer to safely distribute the loads to the anchors.

#### POST-INSTALLED ANCHORS (INTO CONCRETE AND MASONRY)

REFERENCE STANDARDS: Conform to:

- (1) IBC Chapter 19 "Concrete"
- (2) ACI 318-19 "Building Code Requirements for Structural Concrete" (3) IBC Chapter 21 "Masonry"

(4) TMS 402-16 "Building Code Requirements for Masonry Structures"

- MATERIALS: Structural steel materials shall conform to materials and requirements listed in AISC 360 section A3 including, but
- not limited to:

POST-INSTALLED ANCHORS: Install only where specifically shown in the details or allowed by SER. All post-Installed anchors types and locations shall be approved by the SER and shall have a current ICC-Evaluation Service Report that provides relevant design values necessary to validate the available strength exceeds the required strength. Submit current manufacturer's data and ICC ESR report to SER for approval regardless of whether or not it is a pre-approved anchor. Anchors shall be installed in strict accordance with ICC-ESR and the manufacturer's printed installation instructions (MPII) in conjunction with edge distance, spacing and embedment depth as indicated on the drawings. The contractor shall arrange for a manufacturer's field representative to provide installation training for all products to be used, prior to the commencement of work. Only trained installer shall perform post installed anchor installation. A record of training shall be kept on site and be made available to the SER as requested. Adhesive anchors installed in horizontally or upwardly inclined orientation shall be performed by a certified adhesive anchor installer (AAI) as certified through ACI/CRSI or approved equivalent. Proof of current certification shall be submitted to the engineer for approval prior to commencement of installation. No reinforcing bars shall be damaged during installation of post-installed anchors. Special inspection shall be per the TESTS and IN-SPECTIONS section. Anchor type, diameter and embedment shall be as indicated on drawings.

- (1) <u>ADHESIVE ANCHORS</u>: The following Adhesive-type anchoring systems have been used in the design and shall be used for anchorage to CONCRETE and MASONRY, as applicable and in accordance with corresponding current ICC ESR report. Reference the corresponding ICC ESR report for required minimum age of concrete, concrete temperature range, moisture condition, light weight concrete, and hole drilling and preparation requirements. Drilled-in anchor embedment lengths shall be as shown on drawings, or not less than 7 times the anchor nominal diameter (7D). Adhesive anchors are to be installed in concrete aged a minimum of 21 days, unless otherwise specified in the ICC ESR report.
  - a. SIMPSON "SET-3G" ICC ESR 4057 for anchorage to CONCRETE only
  - b. SIMPSON "SET-XP" ICC ESR 2508 for anchorage to CONCRETE, IAPMO 265 for anchorage to MASONRY

(2) EXPANSION ANCHORS: The following Expansion type anchors are pre-approved for anchorage to CONCRETE or MASONRY in accordance with corresponding current ICC ESR report:

- a. SIMPSON "STRONG-BOLT 2" ICC ESR-3037 for anchorage to CONCRETE, IAPMO 240 to MASONRY
- SIMPSON "WEDGE-ALL" ICC ESR-1396 for anchorage to MASONRY
- (3) <u>SCREW ANCHORS</u>: The following Screw type anchor is pre-approved for anchorage to CONCRETE or MASONRY in accordance with corresponding current ICC ESR report:
  - a. SIMPSON "TITEN HD" ICC ESR-2713 for CARBON STEEL to CONCRETE, ICC ESR-1056 for MASONRY Only, IAPMO 493 for STAINLESS STEEL to CONCRETE

#### STRUCTURAL STEEL

REFERENCE STANDARDS: Conform to:

- IBC Chapter 22 "Stee (2) ANSI/AISC 303-16 – "Code of Standard Practice for Steel Buildings & Bridges"
- (3) AISC "Manual of Steel Construction", Fifteenth Edition (2016)
- (4) ANSI/AISC 360-16 "Specification for Structural Steel Buildings" (5) AWS D1.1:2015 – "Structural Welding Code – Steel"

(6) 2014 RCSC – "Specification for Structural Joints using High-Strength Bolts"

SUBMITTALS: Submit the following documents to the SER for review:

1) SHOP DRAWINGS complying with AISC 360 Sections M1and N3 and AISC 303 Section 4. (2) ERECTION DRAWINGS complying AISC 360 Sections M1and N3 and AISC 303 Section 4.

Make copies of the following documents "Available upon Request" to the SER or Owner's Inspection Agency in electronic or printed form prior to fabrication per AISC 360 Section N3.2 requirements:

- (1) Fabricator's written Quality Control Manual that includes, as a minimum:
- Material Control Procedures b. Inspection Procedures
- c. Non-conformance Procedures
- (2) Steel & Anchor Rod suppliers' Material Test Reports (MTR's) indicating the compliance with specifications. (3) Fastener manufacturer's Certification documenting conformance with the specification.
- (4) Filler metal manufacturer's product data for SMAW, FCAW and GMAW indicating: a. Product specification compliance
  - Recommended welding parameters
  - Recommended storage and exposure requirements including baking
- Limitations of use (5) Welded Headed (Shear) Stud Anchors Manufacturer's certification indicating the meet specifications. 6) Weld Procedure Specifications (WPS's) for shop and field welding.
- (7) Manufacturer's Certificates of Conformance for electrodes, fluxes and gases (welding consumables).

Wide Flange (W), Tee (WT) ShapesASTM A992 Fy = 50 ksi
Structural (S), (M) & (HP) ShapesASTM A36, Fy = 36 ksi
Channel (C) & Angle (L) ShapesASTM A36, Fy = 36 ksi
Structural Plate (PL)ASTM A36, Fy = 36 ksi
High Strength Plate (Gr 50 PL)ASTM A572, Fy = 50 ksi
Hollow Structural Section – Square/Rect (HSS) ASTM A500, Grade C Fy = 50 ksi
Structural Pipe, (PIPE) 12" dia. and lessASTM A53, Grade B Fy = 35 ksi
High Strength, Heavy Hex Structural Bolts ASTM F3125 Gr. A325/F1852, Type 1 or 3, Plain
Heavy Hex NutsASTM A563, Grade and Finish per RCSC Table 2.1
Washers (Hardened Flat or Beveled)ASTM F436, Grade and Finish per RCSC Table 2.1
Anchor Rods (Anchor Bolts, typical)ASTM F1554, Gr. 36
Anchor Rods (High Strength)ASTM F1554, Gr. 55 (weldable) per Supplement S1
Welded Headed Stud AnchorsASTM A108 – Nelson/TRW S3L
Welded Headed Stud AnchorsASTM A108 – Nelson/TRW H4L
Deformed Bar Anchors (DBA)ASTM A496 – Nelson/TRW D2L, Fy = 70 ksi

STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS

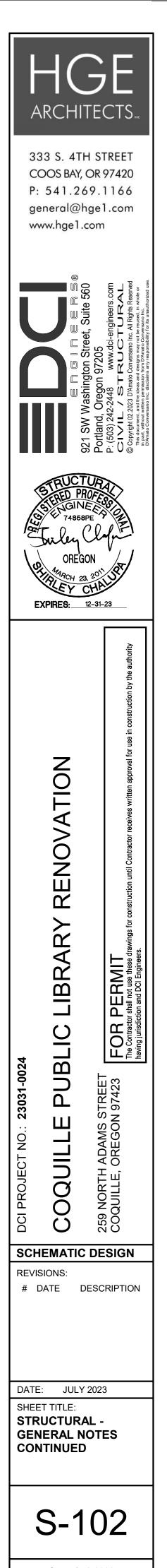
- (1) ASTM F3125 Gr. A325-N bolts "threads NOT excluded in the shear plane".
- (2) High strength bolted joints have been designed as "BEARING" connections.
- (3) Provide ASTM Bolt Grade and Type as specified in the Materials section above.
- (4) Provide Washers over outer ply of slotted holes and oversize holes per RCSC Table 6.1. (5) Provide Nut and Washer grades, types and finishes conforming to RCSC specification Table 2.1.
- (6) Provide fastener assemblies from a single supplier.
- (7) Joint Types shall be:
  - a. ST "Snug Tight", for typical beam end "shear" connections, unless noted otherwise.
- b. SC "Slip Critical", where specifically indicated. Provide with Class A Faying surface. (8) Install bolts in joints in accordance with the RCSC Specification Section 8 and Table 4.1.
- (9) Inspection is per RCSC Section 9.

#### ANCHORAGE to CONCRETE

- (1) SHEAR STUDS on STEEL BEAMS for COMPOSITE CONSTRUCTION: Headed Shear Studs welded to tops of Wide Flange Beams, shall be 3/4" diameter WHS with nominal stud lengths as indicated. Unless noted otherwise, provide minimum shear stud height equal to the (metal deck depth + 1 1/2") and a maximum shear stud height that allows for  $\frac{1}{2}$  of concrete cover over the stud.
- (2) EMBEDDED STEEL PLATES for Anchorage to Concrete: Plates (PL) embedded in concrete with studs (WHS) or dowel bar anchors (DBA) shall be of the sizes and lengths as indicated on the plans with minimum 1/2" dia. WHS x 6" long but provide not less than  $\frac{3}{4}$ " interior cover or 1  $\frac{1}{2}$ " exterior cover to the opposite face of concrete, unless noted otherwise.
- (3) COLUMN ANCHOR RODS and BASE PLATES: All columns (vertical member assemblies weighing over 300 pounds) shall be provided with a minimum of four <sup>3</sup>/<sub>4</sub>" diameter anchor rods. Column base plates shall be at least <sup>3</sup>/<sub>4</sub>" thick, unless noted otherwise. Cast-in-place anchor rods shall be provided unless otherwise approved by the Engineer. Unless noted otherwise, embedment of cast-in-place anchor rods shall be 12 times the anchor diameter (12D).

#### FABRICATION:

- (1) Conform to AISC 360 Section M2 "Fabrication" and AISC 303 Section 6 "Shop Fabrication".
- (2) Quality Control (QC) shall conform to:
  - a. AISC 360 Chapter N "Quality Control and Quality Assurance" and
  - b. AISC 303 Section 8 "Quality Control".
  - c. Fabricator and Erector shall establish and maintain written Quality Control (QC) procedures per AISC 360 section N3.
  - d. Fabricator shall perform self-inspections per AISC 360 section N5 to ensure that their work is performed in accordance with Code of Standard Practice, the AISC Specification, Contract Documents and the Applicable Building Code.
  - e. QC inspections may be coordinated with Quality Assurance inspections per Section N5.3 where fabricators QA procedures provide the necessary basis for material control, inspection, and control of the workmanship expected by the Special Inspector.



#### WELDING:

- lected
- (4) Welding of headed stud anchors shall be in accordance with AWS D1.1 Chapter 7 "Stud Welding".

#### ERECTION:

- (1) Conform to AISC 360 Section M4 "Erection" and AISC 303 Section 7 "Erection".

- and AISC 303 Section 7.10 and 7.11.

PROTECTIVE COATING REQUIREMENTS:

## by the project specifications.

- (2) INTERIOR STEEL: Concealed by the interior building finishes,
  - Fireproofed,
  - Embedded in concrete,
  - Engineer
  - testing requirement, if any, are satisfied.
- project specifications.

#### STEEL STAIRS

- REFERENCE STANDARDS: Conform to:
- Minimum Concentrated Live Loads" (2) NAAMM – "Metals Stairs Manual"
- (3) ANSI/AISC 360-16 "Specification for Structural Steel Buildings"
- (5) AWS D1.1:2014 "Structural Welding Code Steel" (6) AWS D1.3:2008 - "Structural Welding Code - Sheet Steel"

SUBMITTALS: Steel stairs are to be prepared by an SSE. Reference DEFINITIONS and DEFERRED SUBMIT-TALS above. Submit structural calculations and shop drawings (component design drawings) stamped by a professional Structural Engineer registered in the state of Oregon.

#### MATERIALS:

Structural WF Shapes	
Steel Channels, Angles, Plates & Bar	
Sheet Steel (Galvanized)	
Steel Pipe Rail	
Steel Tubing	
Steel Rod	
Steel Deck	
Bolts	
Welds, Structural Steel	
Welds, Sheet Steel	
Welded Headed Studs (WHS)	
Headed Concrete Anchors (HCA)	

tachment to the primary structure shall be designed and provided by the stair supplier.

CONCRETE FILL: Conform to notes, this sheet for CAST-IN-PLACE CONCRETE and CONCRETE REINFORC-MENT. Provide minimum 3000 psi concrete and WWF 6x6-W1.4xW1.4 or Fibermesh unless noted on the draw-

#### WOOD FRAMING

- REFERENCE STANDARDS: Conform to: ) IBC Chapter 23 "WOOD"
- plement" (3) ANSI/AWC – SDPWS-2021: Special Design Provisions for Wind and Seismic
- (4) APA PDS 20: "Panel Design Specification"
- (7) DSB-89 "Recommended Design Specification for Temporary Bracing of Metal Plate Connected Wood Truss-
- Loads" (9) APA Report TT-061C "1-5/16 Inch-Thick I-Joist Flanges and Diaphragm Nail Penetration

## SUBMITTALS: Submit shop drawings to the Architect/Engineer for review. Shop drawings shall include member bolts and other fasteners. Supply shop drawings for the following:

- Glued laminated members
- (2) PSL members
- (3) LVL members (4) LSL members

# certificate of inspection issued by the certifying agency.

#### MATERIALS:

acceptable at interior walls only.

(1) Welding shall conform to AWS D1.1 with Prequalified Welding Processes except as modified by AISC 360 section J2. Welders shall be qualified in accordance with AWS D1.1 requirements. (2) Use 70ksi strength, low-hydrogen type electrodes (E7018) or E71T as appropriate for the process se-

(3) Welding of high strength anchor rods is prohibited unless approved by Engineer

(2) Conform to AISC 360 Chapter N "Quality Control and Quality Assurance" and AISC 303 Section 8. a. The Erector shall maintain detailed erection quality control procedures that ensure that the work is performed in accordance with these requirements and the Contract Documents (3) Steel work shall be carried up true and plumb within the limits defined in AISC 303 Section 7.13.

(4) High strength bolting shall comply with the RCSC requirements including RCSC Section 7.2 "Required Testing", as applicable and AISC 360 Chapter J, Section M2.5 and Section N5.6. (5) Welding of HEADED STUD ANCHORS shall be in accordance with AWS D1.1 Chapter 7 "Stud Welding. (6) Provide Headed (Shear) Stud Anchors welded through the metal deck to tops of beams denoted in plans.

(7) The contractor shall provide temporary bracing and safety protection required by AISC 360 Section M4.2

(1) SHOP PAINTING: Conform to AISC 360 Section M3 and AISC 303 Section 6.5 unless otherwise specified

a. Unless noted otherwise, *do not paint* any of the steel surfaces meeting the following conditions:

iv. Specially prepared as a "faying surface" for Type-SC "slip-critical" connections including bolted connections that form a part of the Seismic Force Resisting System governed by AISC 341 unless the coating conforms to requirements of the RCSC Bolt Specification and is approved by the

v. Welded; if area requires painting, do not paint until after weld inspections and non-destructive

b. Interior steel, exposed to view, shall be painted with one coat of shop primer unless otherwise indicated in the project specifications. Field touch-ups to match the finish coat or as otherwise indicated in the

(1) IBC Chapter 10 – "Means of Egress", IBC Table 1607.1 – "Minimum Uniformly Distributed Live Loads and

(4) AISI S100-16 – "North American Specification for the Design of Cold-Formed Steel Structural Members"

.....ASTM A992 .....ASTM A36 .....ASTM A446 .....ASTM A53, Grade B .....ASTM A500, Grade E .....ASTM A36 or A307 .....1-1/2" Composite Floor Deck .....ASTM F3125 Gr. A325N .....AWS D1.1 .....AWS D1.3

.....ASTM A108, AWS D1.1 ...ASTM A108, AWS D1.1

### SCOPE: The steel stair design and construction scope shall include treads, risers, stringers, landings, railings and all connections including connections to the primary structure unless noted otherwise. All inserts required for at-

ARCHITECTURAL REQUIREMENTS: Conform to shape and configuration shown on the architectural drawings. Consult the project specifications for additional information. All steel shall be painted per project specifications with one coat of standard shop primer unless noted otherwise on the drawings or in the specifications.

(2) ANSI/AWC NDS - 2018: "National Design Specification (NDS) for Wood Construction - with 2018 NDS Sup-

(5) TPI 1-2014 "National Design Standard for Metal-Plate-Connected Wood Truss Construction" (6) BCSI B1 "Guide to Good Practice for Handling, Installing, Restraining & Bracing of Trusses'

(8) APA Report TT-045B "Minimum Nail Penetration for Wood Structural Panel Connections Subject to Lateral

size, spacing, camber, material type, grade, shop and field assembly details and connections, types and location of

IDENTIFICATION: All sawn lumber and pre-manufactured wood products shall be identified by the grade mark or a

(1) Sawn Lumber: Conform to grading rules of WWPA, WCLIB or NLGA and Table below. Finger jointed studs

#### TABLE of SOLID SAWN LUMBER

ABLE OF SOLID SAWN LUMBER					
Member Use	Size	Species	Grade		
Wall Stud/ Top & Bot- tom Plates	2x4, 3x4, 2x6, 3x6	Doug Fir Larch	No. 2		
Sill Plate (at concrete)	2x4, 3x4, 2x6, 3x6	PT Doug Fir Larch	No. 2		
Post	4x4, 4x6, 4x8	Doug Fir Larch	No. 2		
Floor or Roof Joist	2x6 through 2x12	Doug Fir Larch	No. 2		
Beam	4x8 through 4x12	Doug Fir Larch	No. 2		
Beam	6x8 through 6x12	Doug Fir Larch	No. 1		
Post or Timber	6x6, 8x8	Doug-Fir Larch	No. 1		

(2) <u>2" Tongue-And-Groove Heavy Timber Decking</u>: Tongue-and-groove deck shall be random length laid with well-scattered joints (controlled random lay-up). The distance between end joints in adjacent courses must be at least 2 feet apart. End joints not over a support shall be end matched tongue and groove or use #10 gage metal spline and drive fit into precut slot in board. Each board shall bear on at least one support. Only one board out of three shall be spliced at a given location. Joints within 6 inches of each other shall be separated by at least 2 intervening courses.

Decking is to be installed with tongues up on sloped or pitched roofs. It is to be laid with pattern faces down. Each piece should be toenailed through the tongue at each support with one 16d common nail and face nailed at each support with one 16d common nail. Decking lengths and moisture content must be in conformance with the AITC 112-93 "Standard for Tongue-and-Groove Heavy Timber Roof Decking."

(3) <u>3"-4" Tongue-And-Groove Heavy Timber Decking</u>: Tongue-and-groove deck shall be random length laid with scattered joints (controlled random lay-up). The distance between end joints in adjacent courses must be at least 4 feet apart. Each board shall bear on at least one support. Only one board out of three shall be spliced at a given location.

Decking is to be installed with tongues up on sloped or pitched roofs. It is to be laid with pattern faces down. Each piece shall be toenailed at each support with one 40d nail and face nailed with one 60d nail. Courses shall be spiked to each other with 8" spikes at intervals not to exceed 30" through predrilled edge holes and with one spike at a distance not exceeding 10" from each end of each piece. Decking lengths and moisture content must conform to the AITC 112-93 "Standard for Tongue-and-Groove Heavy Timber Roof Decking."

#### TABLE of T&G DECKING

Member Use	Size	Species	Grade
T&G Decking	2x6 Solid	Doug-Fir Larch	KD-15 Commer- cial
	3x6, 4x6	Doug-Fir Larch	Commercial

(4) Glued Laminated Timber: Conform to ANSI 117-2020 "Standard Specifications for Structural Glued laminated Timber of Softwood Species, Manufacturing and Design" and ANSI A190.1 "Structural Glued Laminated Timber." Camber all glued laminated beams, except cantilevered and continuous beams, to 3000' radius, unless shown otherwise on the plans. Fabricate cantilevered and continuous beams flat, unless shown otherwise on plans.

### TABLE of GLULAM and GRADE

Member	Sizes	Species	Comb. Sym- bol	Uses
Beams	All	DF/DF	24F–V4	Simple Spans
Beams	All	DF/DF	24F-V8	Continuous or with Cantilever Spans
Columns	All	DF	L2	Post, Truss Member

(5) <u>Glued Laminated Timber: PRESERVATIVE TREATMENT – (TREATED AFTER GLUING)</u>: Glued laminated timber requiring preservative treatment shall be in accordance with AWPA Standard U1 and T1. Retentions shall be:

UC1: interior construction, above ground, dry-interior construction and furnishings

UC2: Interior construction, above ground, damp-interior construction.

UC3B: Exterior construction, above ground, uncoated or poor water run-off-decking, deck joists, railings, fence pickets, uncoated millwork UC4A: Ground contact or fresh water, non-critical components-fence, deck and guardrail posts, crosstie and utility poles.

#### TABLE of GLULAM USE and PRESERVATIVE PENETRATION (PCF) REQUIREMENTS

USE CATEGORY	PRESERVATIVE SYSTEM		
UC1, UC2, UC3B	PCP-A or PCP-C	Cu-8-Q	CuN
Southern Pine	0.30 PCF	0.02 PCF	0.04 PCF
Coastal Douglas-fir	0.30 PCF	Not Applicable	0.04 PCF
Western Hemlock, Hem-fir	0.30 PCF	0.02 PCF	0.04 PCF
UC4A			
Southern Pine	0.60 PCF	NA	0.06 PCF
Coastal Douglas-fir	0.60 PCF	NA	0.06 PCF
Western Hemlock, Hem-fir	0.60 PCF	NA	0.06 PCF

Glulam that is to be preservative-treated should be trademarked with the APA EWS stamp and must be bonded with wet-use adhesives conforming to ANSI A190.1. Incising is required for Douglas-fir, western hemlock and hem-fir. Most glue laminated timber to be pressure-treated will be in custom sizes and should be ordered to exact dimensions when possible to avoid filed cuts, which must be retreated. In addition, all fabrication, cutting and pre-drilling of holes for fasteners is recommended prior to preservative-treating. Field treatment should be applied to saturation by dipping, brushing, spraying, soaking or coating in accordance with AWPA Standard M4.

Fasteners used to connect preservative-treated glue laminated timber should be corrosion resistant to withstand the effects of the high-moisture environment to which these members are typically exposed. Aluminum should not be used in direct contact with wood treated with copper based solutions.

(6) Wood Structural Sheathing (Plywood): Wood APA-rated structural sheathing includes: all veneer plywood, oriented strand board, waferboard, particleboard, T1-11 siding, and composites of veneer and wood-based material with T&G joint. Architect may disallow OSB. Confirm with Architect. Conform to "Structural Plywood" based on Product Standard PS 1-19 by the U.S. Dept. of Commerce, and "Performance Standard for Wood Structural Panels" based on Product Standard PS 2-18 by the U.S. Dept. of Commerce and "Panel Design Specification" based on APA D510 by the Engineered Wood Association. Unless noted otherwise, sheathing shall comply with the following table:

#### TABLE of SHEATHING - Use, Minimum Thickness and Minimum APA Rating

Location	Thickness	Span Rating	Plywood Grade	Exposure
Roof	15/32"	32/16	C-D	1
Floor	23/32" T&G	24 OC	STURD-I-FLOOR	1
Walls	15/32"	32/16	C-D	1

Unless noted otherwise on drawings, install roof and floor panels with long dimension across supports and with panel continuous over two or more spans. End joints shall occur over supports.

(1) <u>Timber Connectors</u>: Shall be "Strong Tie" by Simpson Company as specified in their latest catalog. Alternate connectors by other manufacturers may be substituted provided they have current ICC approval for equivalent or greater load capacities and are reviewed and approved by the SER prior to ordering. Connectors shall be installed per the manufacturer's instructions. Where connector straps connect two members, place onehalf of the nails or bolts in each member. Where connectors are in exposed exterior applications in contact with preservative treated wood (PT) other than CCA, connectors shall be either batch hot-dipped galvanized (HDG), mechanically galvanized (ASTM B695, Class 55 minimum) stainless steel, or provided with 1.85 oz/ sf of zinc galvanizing equal to or better than Simpson ZMAX finish.

Where straps are used as hold-downs, nail straps to wood framing just prior to drywall application, as late as possible in the framing process to allow the wood to shrink and the building to settle. Premature nailing of the strap may lead to strap buckling and potential finish damage.

NAILING REQUIREMENTS: Conform to IBC Section 2304.10 "Connectors and fasteners." Unless noted on plans, nail per Table 2304.10.2. Nailing for roof/floor diaphragms/shear walls shall be per drawings. Nails shall be driven flush and shall not fracture the surface of sheathing. Alternate nails may be used but are subject to review and approval by the Structural Engineer. Substitution of staples for the nailing of rated sheathing is subject to review by the structural engineer prior to construction.

Always verify the suitability of the fastener protection/coating with the wood treatment chemical manufacturer/ supplier

<u>Fasteners (nails, bolts, screws, etc) attaching timber connectors (joist hangers, post caps and bases, etc) to</u> PT wood shall have similar corrosion resistance properties (matching protective treatments) as the protected connector. Fasteners (nails, bolts, screws, etc) attaching sawn timber members or sheathing (shear walls) to PT wood shall be corrosion resistant; nails and lag bolts shall be either HDG (ASTM A153) or stainless steel. Verify the suitability of the fastener protection/coating with the wood treatment chemical manufacturer/ supplier.

Provide <u>washers</u> under the heads and nuts of all bolts and lag screws bearing on wood.

- (1) Lag Screws/Bolts: Conform to ASTM A307 and NDS Chapter 12.
- Lag screw installation shall conform to NDS Section 12.1.4, including required drilled lead and/or clearance
- (2) Nails and Staples: Conform to ASTM F1667 and IBC Sections 2303.6 and 2304.10.
- (3) Engineered Wood Products (TrusJoist): The following materials are based on lumber manufactured by rusJoist and were used for the design as shown on the plans. Alternate products by other manufacturers may be substituted provided they have current ICC approval for equivalent or greater load and stiffness properties and are reviewed and approved by the Structural Engineer prior to ordering.
- a. Laminated Veneer Lumber (LVL): Conform to ICC ES Report No. ESR-1387 or CCMC Report No.
- b. Parallel Strand Lumber (PSL): Conform to ICC ES Report No. ESR-1387 or CCMC Report No.
- c. Laminated Strand Lumber (LSL): Conform to ICC ES Report No. ESR-1387 or CCMC Report No.
- d. Parallel Chord I-JOISTS (Deferred Submittal): Conform to ICC Report No. ESR-1153 or CCMC Report No. 13132-R. The manufacturer shall design the joists for the spans and conditions shown on the plans. Joists shall have wood chords and solid wood webs.

#### TABLE of ENGINEERED WOOD Requirements

Туре	Use	Widths	E(10 <sup>6</sup> )	Fb	Fv	Fc//
			PSI	PSI	PSI	PSI
SL Rimboard	Rimboard or Stair Stringer	1 1⁄2"	1.3E	1,700	425	1,835
imberstrand LSL	Header, Beam or Col- umn < 9" depth	3 1⁄2"	1.3E	1,700	424	1,835
imberstrand LSL	Rimboard, Header or Beam ≥ 9" depth	1 ¾", 3 ½"	1.55E	2,325	310	2,170
imberstrand LSL	Wall Stud 2x4 & 2x6	1 1⁄2"	1.5E	1,700	425	1,835
	Wall Stud >2x6	1 1⁄2"	1.5E	2,525	505	2,105
ficrollam LVL	Header, Beam	1 ¾"	2.0E	2,600	285	2,510
arallam PSL	Header, Beam	3 ½", 5 ¼", 7"	2.0E	2,900	290	2,900 [500]
arallam PSL	Column	3 ½", 5 ¼", 7"	1.8E	2,400	190	2,500

STANDARD LIGHT-FRAME CONSTRUCTION: Unless noted on the plans, construction shall conform to IBC Section 2308 "Conventional Light-Frame Construction."

NAILERS ON STEEL COLUMNS and BEAMS: Wood 3x nailers are generally required on all HSS columns and steel beams abutting or embedded within wood framing. Unless noted otherwise, attach with 5/8" diameter bolts or welded studs at 16" on centers. Unless noted otherwise, wood nailers on beams supporting joist hangers shall not overhang the beam flange by more than  $\frac{1}{4}$ ".

WOOD SHRINKAGE AND EXPANSION: Wood materials will expand, or contract based on relative changes in moisture. The contractor is responsible for means and methods of construction related to mitigating and managing the effects of changes in moisture.

MOISTURE CONTENT: The contractor shall make provisions during handling and construction to prevent the structural wood members from exceeding the appropriate moisture content limits. The moisture content for solid sawn wood material used for this project shall not exceed 19%. The moisture content for engineered wood products, laminated lumber and sheathing shall not exceed the limits required by the manufacturer or 12%, whichever is less. The moisture content limits may be more stringent for particular product requirements (e.g., finishes, cladding, insulation systems, etc.). The contractor shall refer to the Architect's drawings, project specifications, or installer/product requirements for additional requirements.

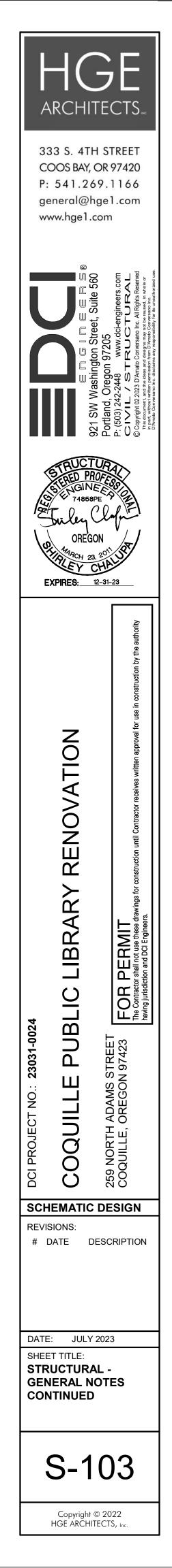
SHRINKAGE COMPENSATION FOR MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS: MEP systems, including ductwork, pipes, and other elements that run continuously between levels shall be installed/designed in such a manner to accommodate shrinkage in the wood framing. Wood shrinkage amounts will vary depending on the construction process and materials used. The anticipated shrinkage under typical conditions is expected to range between 1/8" and 1/4" per floor.

CLADDING COMPATIBILITY: The Architect/Owner and contractor shall review the cladding, finishes, insulation systems, other non-structural components and construction procedures proposed for the project with respect to their performance over wood framing. EIFS systems should be avoided on wood-framed projects due to problems with moisture proofing. Note that DCI is not responsible for the attachment of the cladding to the wood studs which needs to be verified and provided by the cladding supplier.

PRESERVATIVE TREATMENT (PT): Wood materials that are required to be "treated wood" in accordance with IBC Section 2304.12. "Protection Against Decay and Termite" shall conform to the appropriate standards of the American Wood Protection Association (AWPA) for sawn lumber, glued laminated timber, round poles, wood piles and marine piles. Follow American Lumber Standards Committee (ALSC) quality assurance procedures. Products shall bear the appropriate mark. Fasteners or anchors in treated wood shall be of stainless steel or hot-dipped galvanized or as per IBC 2304.10.6.

Mud sill plates in normally dry interior applications may be treated with Sodium Borate (DOT - Disodium Octaborate Tetrahydrate) as recent studies have noted less connector corrosion potential than other available wood treatments or the original CCA treated sill plates. Wood treated with Sodium Borate shall be protected during shipment, storage and installation to minimize leaching of the water-soluble preservative from the lumber. Sodium borate pressure treated plates do not require hot-dipped galvanized connectors.

If using preservative treatments other than CCA or sodium borate, fasteners must be hot dipped galvanized or stainless steel. Wood treated with Alkaline Copper Quaternary (ACQ) requires steel components in contact with the wood to be stainless (nails, bolts, screws, washers & lag screws). Fasteners (nails, bolts, screws, washers & lag screws) attaching timber connectors (joist hangers, post caps and bases, etc) to PT wood shall have similar corrosion resistance properties (matching protective treatments) as the protected connector; that is, use hot dipped galvanized or stainless-steel fasteners. Fasteners (nails, bolts, screws, washers & lag screws) attaching sawn timber members or sheathing (shear walls) to Pressure Treated wood shall be corrosion resistant (hot dipped galvanized or stainless steel).



## SPECIAL INSPECTIONS

The following Statement and Schedules of Inspections are those Special Inspections and Tests that shall be performed for this project. Special Inspectors shall reference these plans and IBC Chapter 17 for all special inspection requirements. The owner shall retain an "approved agency" per OSSC 1703 to provide special inspections for this pro-

ject. Special Inspectors shall be qualified persons per OSSC 1704.2.1. Special inspection reports shall be provided on a weekly basis. Submit copies of all inspection reports to the Architect/Engineer and the Authority Having Jurisdiction for review. In addition to special inspection reports and tests, submit reports and certificates noted in OSSC 1704.5 to the Authority Having Jurisdiction. Final special inspection reports will be required by each special inspection firm per OSSC 1704.2.4.

#### STATEMENT OF SPECIAL INSPECTIONS:

This statement of Special Inspections has been written with the understanding that the Building Official will:

- Review and approve the gualifications of the Special Inspectors Monitor the special inspection activity on the project site to assure that Special Inspectors are qualified and performing their duty as state within this statement. Review all Special Inspection Reports submitted to them by the Special Inspector
- Perform inspections as required by OSSC Section 110.3. The following Special Inspections are applicable to this project:

The following opecial inspections are applicable to	runa project.	
<ul> <li>Special Inspections for Standard Buildings</li> </ul>	(per OSSC 1705.1)	REQUIRED
<ul> <li>Special Inspections for Seismic Resistance</li> </ul>	e (per OSSC 1705.13)	NOT REQUIRED
<ul> <li>Testing for Seismic Resistance</li> </ul>	(per OSSC 1705.14)	NOT REQUIRED
<ul> <li>Special Inspections for Wind Resistance</li> </ul>	(per OSSC 1705.12)	NOT REQUIRED

# SPECIAL INSPECTION OF SHOP FABRICATED GRAVITY LOAD-BEARING MEMBERS AND ASSEMBLIES:

Special Inspection of shop fabricated Gravity Load Bearing Members & Assemblies shall be verified by the Special Inspector as stated in Section 1704.2.5

#### STRUCTURAL STEEL

#### per IBC 1705.2.1

A qualified Special Inspector of an "approved agency" providing Quality Assurance (QA) Special Inspections for the project shall review and confirm the Fabricator and Erector's Quality Control (QC) procedures for completeness and adequacy relative to AISC 360-16 Chapter N, AISC 303-16 Code of Standard Practice, AWS D1.1-2015 Structural Welding Code, and 2022 OSSC code requirements for the fabricator's scope of work.

- o QA Agency providing Special Inspections shall provide personnel meeting the minimum qualification requirements for Inspection and Nondestructive Testing NDT per AISC 360 Section N4.
- Verify Fabricator and Erector QC Program per AISC 360 Section N2.
- o Inspection of welds and bolts by both QC and QA personnel shall be per the Schedule of Special Inspections below. All provisions of AWS D1.1 Structural Welding Code for statically loaded structures shall apply.
- Nondestructive Testing (NDT) of welds:
  - Non-Destructive Testing (NDT) of welded joints per AISC 360 N5.5 Risk Category for determination of extent of NDT per AISC 360 N5.5b is noted in the De-
  - sign Criteria and Loads section of these General Requirements. • NDT performed shall be documented and reports shall identify the tested weld by piece
  - mark and location of the piece. For field work, the NDT report shall identify the tested weld by location in the structure, piece mark and location of the piece.
- Additional Inspection tasks per AISC 360 Section N5.8.
- Inspection for Composite Construction shall be done per AISC 360 Section N6.

<u>POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY</u>: shall comply with OSSC Section 1703. In-spections shall be in accordance with the requirements set forth in the approved ICC Evaluation Report and as indicated by the design requirements specified on the drawings. Refer to the POST INSTALLED ANCHORS section of these notes for anchors that are the basis of the design. Special inspector shall verify anchors are as specified in the POST INSTALLED ANCHORS section of these notes or as otherwise specified on the drawings. Substitutions require approval by the SER and require substantiating calculations and current 2022 OSSC recognized ICC Evaluation Services (ES) Report. Special Inspector shall document in their Special Inspection Report compliance with each of the elements required within the applicable ICC Evaluation Services (ES) Report.

PREFABRICATED CONSTRUCTION: All prefabricated construction shall conform to OSSC Section 1703.

#### SCHEDULES OF SPECIAL INSPECTIONS:

#### TABLE 1705.6 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
<ol> <li>Verify materials below shallow foundations are adequate to achieve the design bearing capacity</li> </ol>	-	×
<ol><li>Verify excavations are extended to proper depth and have reach proper material</li></ol>	-	×
3. Perform classification and testing of compacted fill materials	-	х
4. During fill placement, verify use of proper materials and pro- cedures in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses dur- ing placement and compaction of compacted fill.	х	-
<ol><li>Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly</li></ol>	-	х

#### CONTINUOUS SPECIAL IN-SPECTN TYPE 1. Inspection, reinforcement, and verify placement. 2. Reinforcing bar welding: a. Verify weldability of reinforcing bars other than ASTM A706 b. Inspect single pass fillet weld maximum 5/16" c.Inspect all other welds Х Inspect anchors cast in concrete 4. Inspect anchors postinstalled in hardened concrete members: a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads b. Mechanical anchors and adhesive anchors not defined in 4.a 5. Verify use of required design mix 6. Prior to concrete placement, fabricate specimens for strength tests, perform X slump and air content tests, and determine the temperature of the concrete 7. Inspect concrete and shotх crete placement for proper application techniques Verify maintenance of specified curing temperature and techniques Inspect formwork for shape, location and dimen-

sions of the concrete mem-

ber being formed

TABLE 1705.3 - REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

 PERIODIC SPE- CIAL INSPEC- TION	REFERENCED STANDARD	OSSC REFER- ENCE
Х	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	-
x	AWS D1.4 ACI 318: 26.6.4	-
× -		
х	ACI 318: 17.8.2	-
-	ACI 318: 17.8.2.4	-
×	ACI 318: 17.8.2	
х	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	-
-	ACI 318: 26.5	-
х	ACI 318 :26.5.3 – 26.5.5	-
х	ACI 318: 26.11.1.2 (b)	-

MINIMUM REQUIREMENTS FOR INSPECTIONS OF STR	RUCTURAL	STEEL C	ONSTRUCTION
INSPECTION TASKS	QC	QA	REFERENCED STANDARD
INSPECTION TASKS PRIOR TO WELDING			
1. Welder qualification records and continuity records	Р	0	AISC 360 TABLE N5.4-1
2. Welding procedure specifications (WPSs) available	Р	Р	AISC 360 TABLE N5.4-1
3. Manufacturing certifications for welding consumables available	Р	Р	AISC 360 TABLE N5.4-1
4. Material identification (type/grade)	0	0	AISC 360 TABLE N5.4-1
5. Welder Identification system	0	0	AISC 360 TABLE N5.4-1
<ul> <li>6. Fit-up of groove welds (including joint geometry)</li> <li>Joint preparation</li> <li>Dimensions (alignment, root opening, root face, bevel)</li> <li>Cleanliness (condition of steel surfaces)</li> <li>Tacking (tack welding quality and location)</li> <li>Backing type and fit (if applicable)</li> </ul>	0	0	AISC 360 TABLE N5.4-1
<ul> <li>7. Fit-up of CJP groove welds of HSS T-, Y-, and K-joints without backing (including joint geometry)</li> <li>Joint preparation</li> <li>Dimensions (alignment, root opening, root face, bevel)</li> <li>Cleanliness (condition of steel surfaces)</li> <li>Tacking (tack welding guality and location)</li> </ul>	Ρ	o	AISC 360 TABLE N5.4-1
8. Configuration and finish of access holes	0	0	AISC 360 TABLE N5.4-1
<ul> <li>9. Fit-up of fillet welds</li> <li>Dimensions (alignment, gaps at root)</li> </ul>	0	0	AISC 360 TABLE N5.4-1
<ul> <li>Cleanliness (condition of steel surfaces)</li> <li>Tacking (tack weld quality and location)</li> </ul>	-	Ŭ	
10. Check welding equipment INSPECTION TASKS DURING WELDING	0	-	AISC 360 TABLE N5.4-1
1. Use of qualified welders	0	0	AISC 360 TABLE N5.4-2
<ul> <li>2. Control and handling of welding consumables</li> <li>Packaging</li> <li>Exposure control</li> </ul>	0	о	AISC 360 TABLE N5.4-2
Exposure control     3. No welding over cracked tack welds	0	0	AISC 360 TABLE N5.4-2
<ul> <li>4. Environmental conditions</li> <li>Wind speed within limits</li> </ul>	0	0	AISC 360 TABLE N5.4-2
Precipitation and temperature			
<ul> <li>5. WPS followed</li> <li>Settings on welding equipment</li> <li>Travel speed</li> <li>Selected welding materials</li> <li>Shielding gas type/flowrate</li> <li>Preheat applied</li> <li>Interpass temperature maintained (min/max)</li> <li>Proper position (F, V, H, OH)</li> </ul>	0	0	AISC 360 TABLE N5.4-2
<ul> <li>6.Welding techniques</li> <li>Interpass and final cleaning</li> <li>Each pass within profile limitations</li> <li>Each pass meets quality requirements</li> </ul>	0	0	AISC 360 TABLE N5.4-2
INSPECTION TASKS AFTER WELDING			
1.Welds cleaned	0	0	AISC 360 TABLE N5.4-3
<ul><li>2.Size, length, and locations of welds</li><li>3.Welds meet visual acceptance criteria</li><li>Crack prohibition</li></ul>	Р	Р	AISC 360 TABLE N5.4-3
<ul> <li>Weld/base-metal fusion</li> <li>Crater cross section</li> <li>Weld profiles</li> <li>Weld size</li> <li>Undercut</li> <li>Porosity</li> </ul>	Р	Р	AISC 360 TABLE N5.4-3
4. Arc strikes	Р	P	AISC 360 TABLE N5.4-3
5. k-area	P	P	AISC 360 TABLE N5.4-3
6. Weld access holes in rolled heavy shapes and built-up	Р	Р	AISC 360 TABLE N5.4-3
heavy shapes		Р	
7. Backing removed and weld tabs removed (if required)	P		AISC 360 TABLE N5.4-3
<ol> <li>8. Repair activities</li> <li>9. Document acceptance or rejection of welded joint or mem-</li> </ol>	Р	Р	AISC 360 TABLE N5.4-3
<ul> <li>ber</li> <li>10. No prohibited welds have been added without the ap-</li> </ul>	P	P	AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
proval of the EOR	Р	P	AISC 360 TABLE N5.4-3
INSPECTION TASKS PRIOR TO BOLTING 1. Manufacturer's certifications available for fastener materi-			
als	0	Р	AISC 360 TABLE N5.6-1
2. Fasteners marked in accordance with ASTM requirements	0	0	AISC 360 TABLE N5.6-1
<ol><li>Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)</li></ol>	ο	ο	AISC 360 TABLE N5.6-1
4. Correct bolting procedure selected for joint detail	0	0	AISC 360 TABLE N5.6-1
<ol> <li>Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements</li> </ol>	о	0	AISC 360 TABLE N5.6-1
<ol> <li>Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used.</li> </ol>	Р	о	AISC 360 TABLE N5.6-1
<ol> <li>Proper storage provided for bolts, nuts, washers and other fasteners components</li> </ol>	0	0	AISC 360 TABLE N5.6-1
INSPECTION TASKS DURING BOLTING			
1. Fastener assemblies, of suitable condition, placed in all	0	0	
holes and washers are positioned as required 2. Joint brought to the snug-tight condition prior to the pre-	0	0	AISC 360 TABLE N5.6-2 AISC 360 TABLE N5.6-2
tensioning operation 3. Fastener component not turned by the wrench prevented from rotating	0	0	AISC 360 TABLE N5.6-2
from rotating 4. Fasteners are pre-tensioned in accordance with the RCSC Specification, progressing systematically from the most	0	0	AISC 360-10 TABLE N5.6-2
rigid point toward the free edges			,
INSPECTION TASKS AFTER BOLTING	-	-	
1. Document acceptance or rejection of bolted connections INSPECTION OF STEEL ELEMENTS OF COMPOSITE CON- STRUCTION PRIOR TO CONCRETE PLACEMENT	Р	Р	AISC 360 TABLE N5.6-3
1. Placement and installation of steel deck	Р	Р	AISC 360 TABLE N6.1
2. Placement and installation of steel headed stud anchors	Р	Р	AISC 360 TABLE N6.1
3. Document acceptance or rejection of steel elements	Р	Р	AISC 360 TABLE N6.1
O - Observe these items on a random basis. Operations need	not ha dalay	od popding	

O - Observe these items on a random basis. Operations need not be delayed pending these inspections P - Perform these tasks for each welded joint or member, each bolted connection, or each steel element

REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION

Requirements in the tables "Minimum Verification Requirements" and "Minimum Special Inspection Requirements" below are based on a "Level" as defined by the Code. For this structure use the requirements for Level 1.

#### MINIMUM VERIFICATION REQUIREMENTS

MINIMUM VERIFICATION	REQUIRED FOR QUALITY AS- SURANCE <sup>(a)</sup>	REQUIRED FOR QUALITY AS- SURANCE <sup>(a)</sup>	REQUIRED FOR QUALITY AS- SURANCE <sup>(a)</sup>	REFERENCE FOR CRITERIA
	Level 1	Level 2	Level 3	TMS 602
<ol> <li>Prior to construction, verification of compliance of submittals.</li> </ol>	R	R	R	Art 1.5
<ol><li>Prior to construction, verification of f'm and fAAC except where specifically exempted by the code.</li></ol>	NR	R	R	Art 1.4 B
<ol> <li>During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.</li> </ol>	NR	R	R	Art 1.5 & 1.6.3
<ol> <li>During construction, verification of f'm and f'AAC for every 5,000 sq. ft.</li> </ol>	NR	NR	R	Art 1.4 B
<ol> <li>During construction, verification of proportions of materials as delivered to the project site for pre- mixed or preblended mortar, prestressed grout, and grout other than self-consolidating grout.</li> </ol>	NR	NR	R	Art 1.4 B
a) R=Required, NR=Not Required				

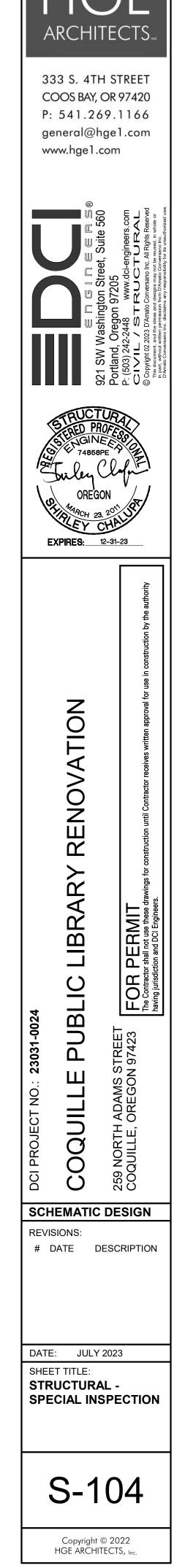
#### MINIMUM SPECIAL INSPECTION REQUIREMENTS

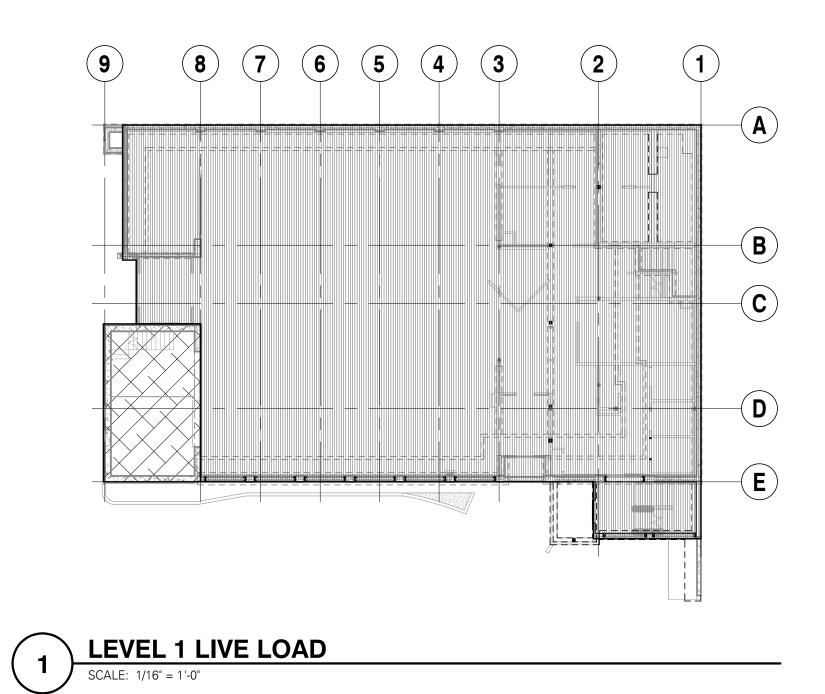
NIMUM SPECIAL INSPECTION REQUIREMENTS					
INSPECTION TASK	FREQUENCY	FREQUENCY	FREQUENCY	REFERENCE FOR CRITERIA	REFERENCE FOR CRITERIA
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
<ol> <li>As masonry construction begins, verify that following are in compliance:</li> </ol>					
a. Proportions of site-prepared mortar	NR	Р	Р		Art. 2.1, 2.6 A, & 2.6 C
B. Grade and size of prestressing ten- dons and anchorages	NR	Р	Р		Art. 2.4 B & 2.4 H
<ul> <li>c.Grade, type and size of reinforcement, connectors, anchor bolts, and pre- stressing tendons and anchorages</li> </ul>	NR	Р	Р		Art. 3.4 & 3.6 A
d. Prestressing technique	NR	Р	Р		Art. 3.6 B
e. Properties of thin-bed mortar for AAC masonry	NR	C $^{(b)}$ P $^{(c)}$	с		Art. 2.1 C.1
f. Sample panel construction	NR	Р	С		Art. 1.6 D
<ol><li>Prior to grouting: verify that the following are in compliance:</li></ol>					
a. Grout space	NR	Р	С		Art. 3.2 D, 3.2 F
<ul> <li>b. Placement of prestressing tendons and anchorages</li> </ul>	NR	Р	Р	Sec.10.8 & 10.9	Art. 2.4, 3.6
c. Placement of reinforcement, connect- ors, and anchor bolts	NR	Ρ	С	Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	Art. 3.3 E & 3.4
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	NR	Р	Ρ		Art. 2.6 B & 2.4 G.1.b
<ol> <li>Verify compliance of the following during construction:</li> </ol>					
<ul> <li>Materials and procedures with the approved submittals</li> </ul>	NR	Ρ	Р		Art. 1.5
<ul> <li>b. Placement of masonry units and mor- tar joints construction</li> </ul>	NR	Р	Р		Art. 3.3 B
c. Size and location of structural mem- bers	NR	Р	Р		Art. 3.3 F
<ul> <li>d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction</li> </ul>	NR	Ρ	С	Sec. 1.2.1 (e), 6.2.1, & 6.3.1	
e. Welding of reinforcement	NR	С	С	Sec. 6.1.6.1.2	
<ul> <li>f. Preparation, construction, and protec- tion of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)</li> </ul>	NR	Ρ	Ρ		Art. 1.8 C & 1.8 D
<ul> <li>g. Application and measurement of pre- stressing force</li> </ul>	NR	с	с		Art. 3.6 B
<ul> <li>Placement of grout and prestressing grout for bonded tendons is in compli- ance</li> </ul>	NR	с	с		Art. 3.5 & 3.6 C
<ul> <li>Placement of AAC masonry units and construction of thin-bed mortar joints</li> </ul>	NR	C $^{(b)}$ P $^{(c)}$	С		Art. 3.3 B.9 & 3.3 F.1.b
<ol> <li>Observe preparation of grout specimens, mortar specimens, and/or prisms</li> </ol>	NR	Ρ	С		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

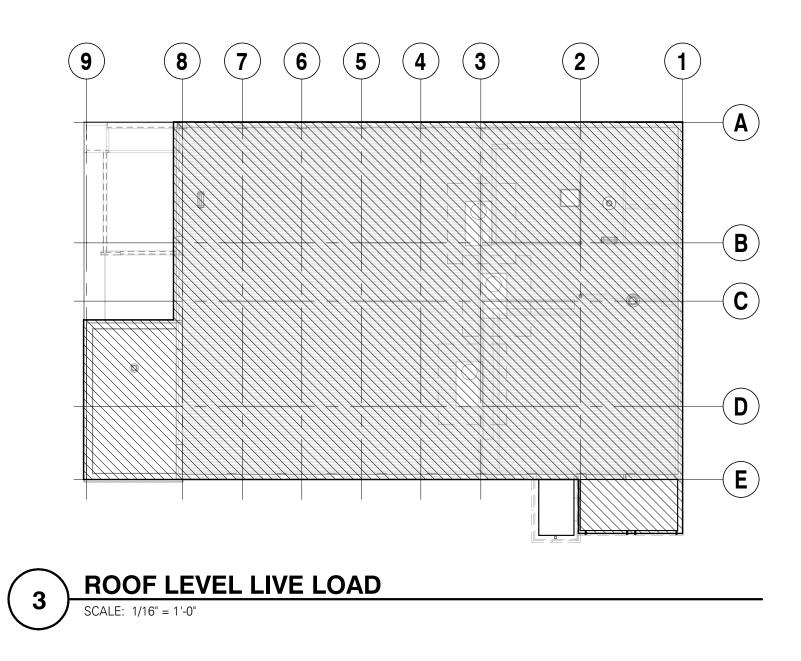
(a) Frequency refers to the frequency of inspection, which may be continuous during the listed task or periodically during the listed task, as defined in the table.

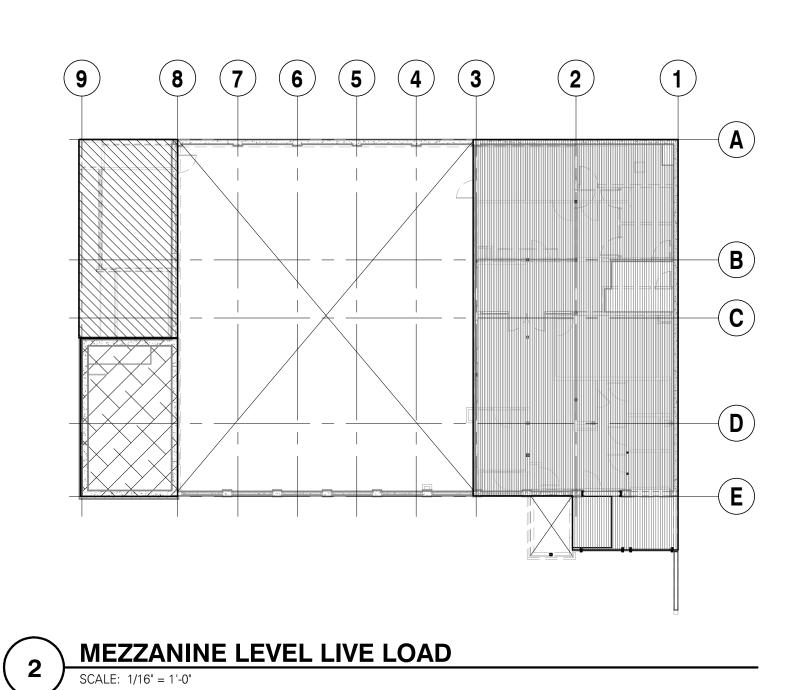
NR=Not Required, P=Periodic, C=Continuous

(b) Required for the first 5000 square feet of AAC masonry. (c) Required after the first 5000 square feet of AAC masonry.

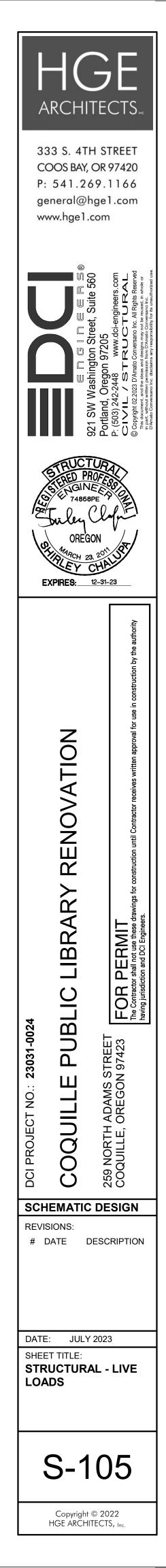


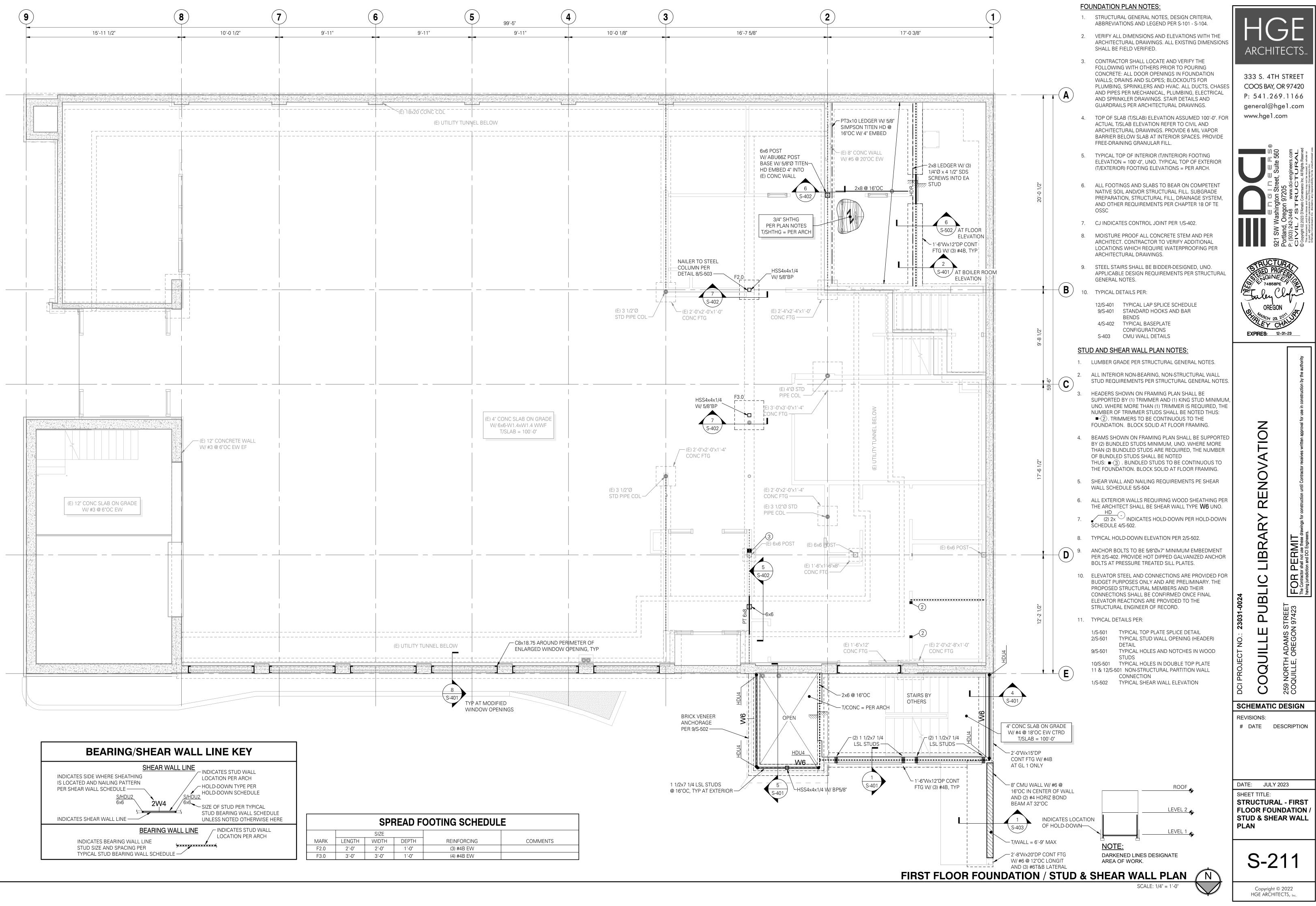




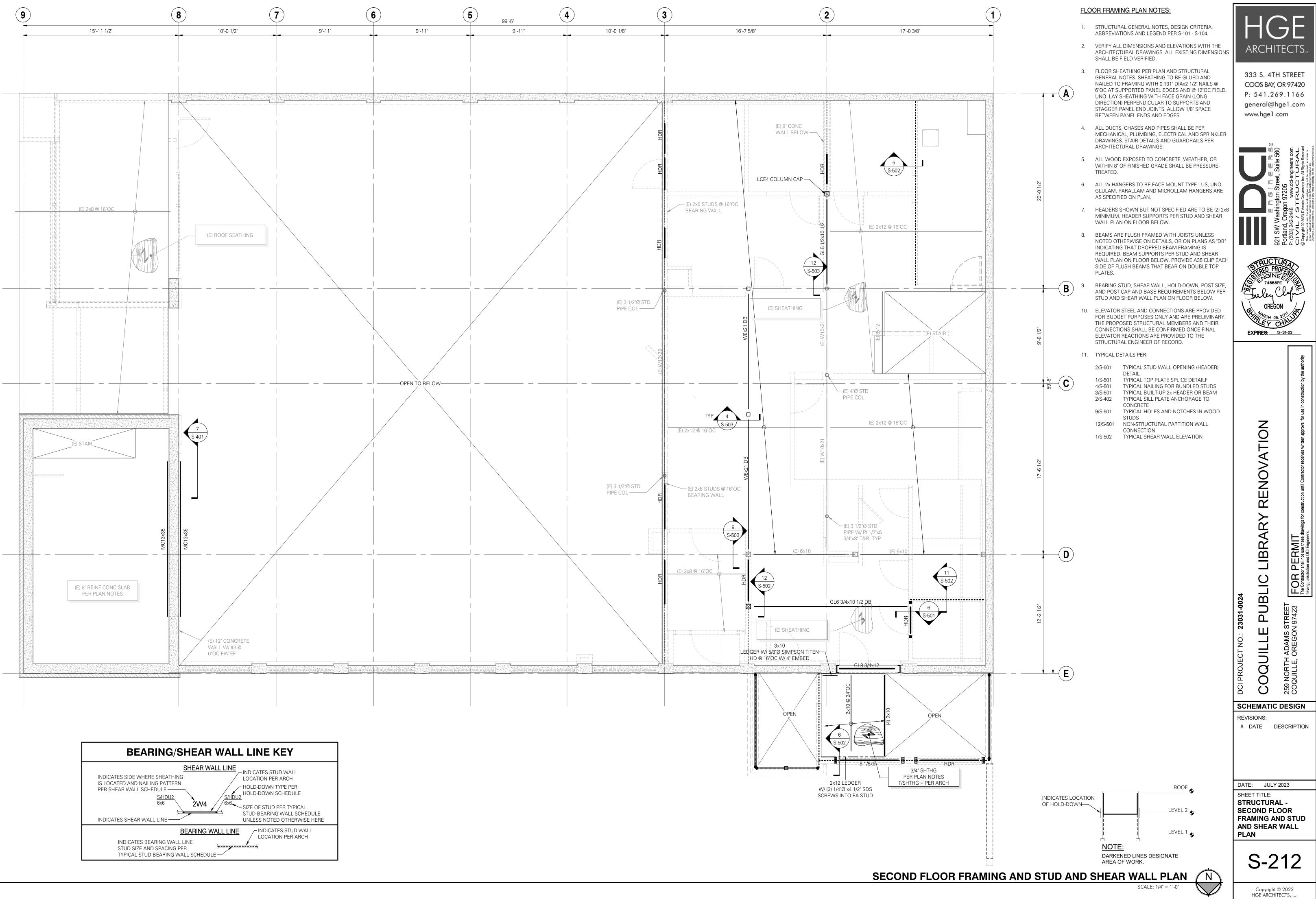


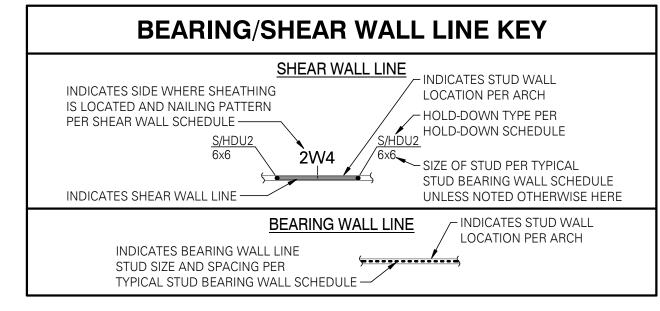
01601 LOAD MAP LEGEND					
DESIGN LOAD LEGEND					
MARK / PATTERN	AREA	AREA LIVE LOAD			
A 🔀	STACK ROOM	150 PSF			
В	READING ROOM	60 PSF			
C	ROOF	25 PSF			

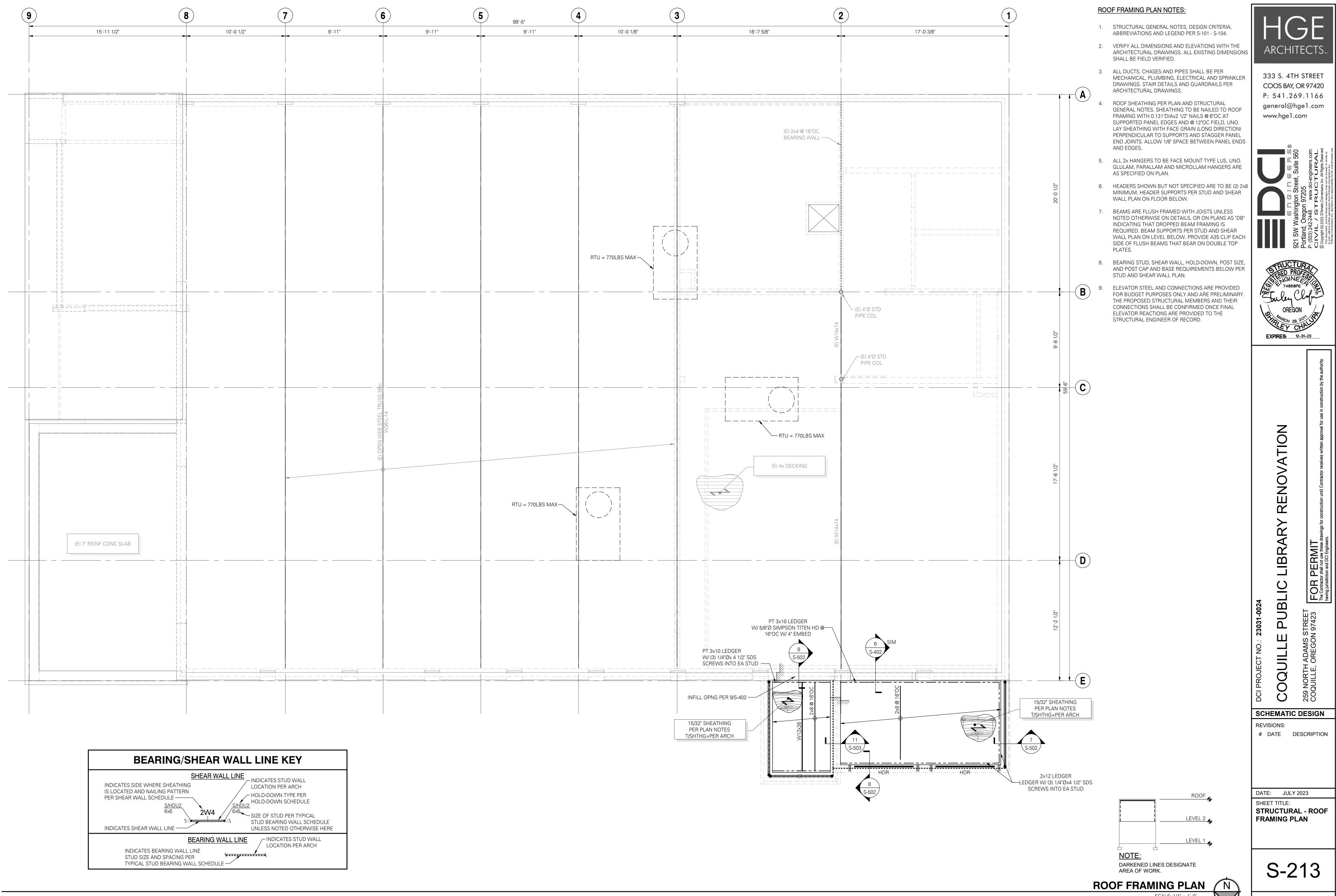




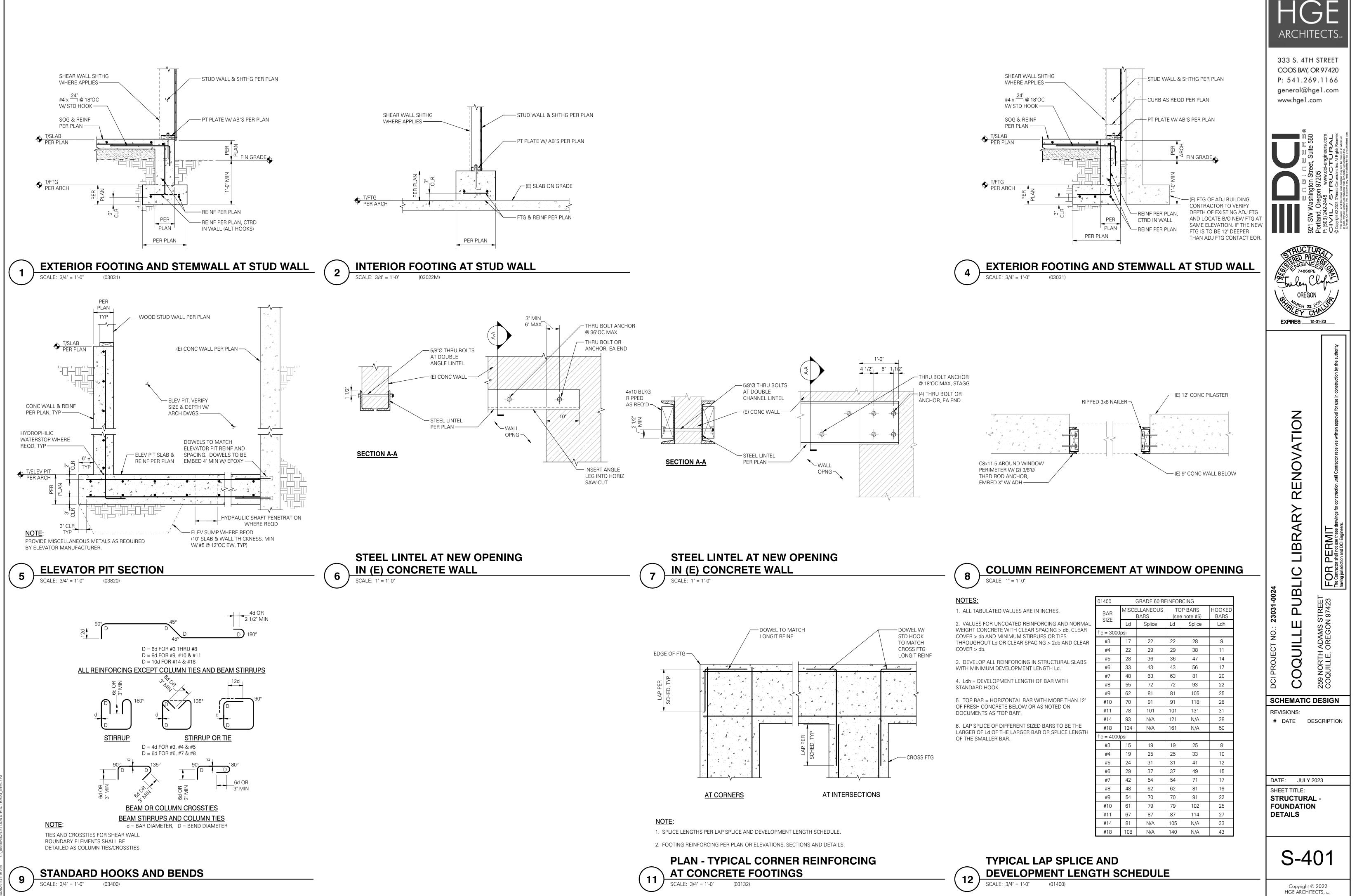
	REINFORCING	COMMENTS
	(3) #4B EW	
	(4) #4B EVV	

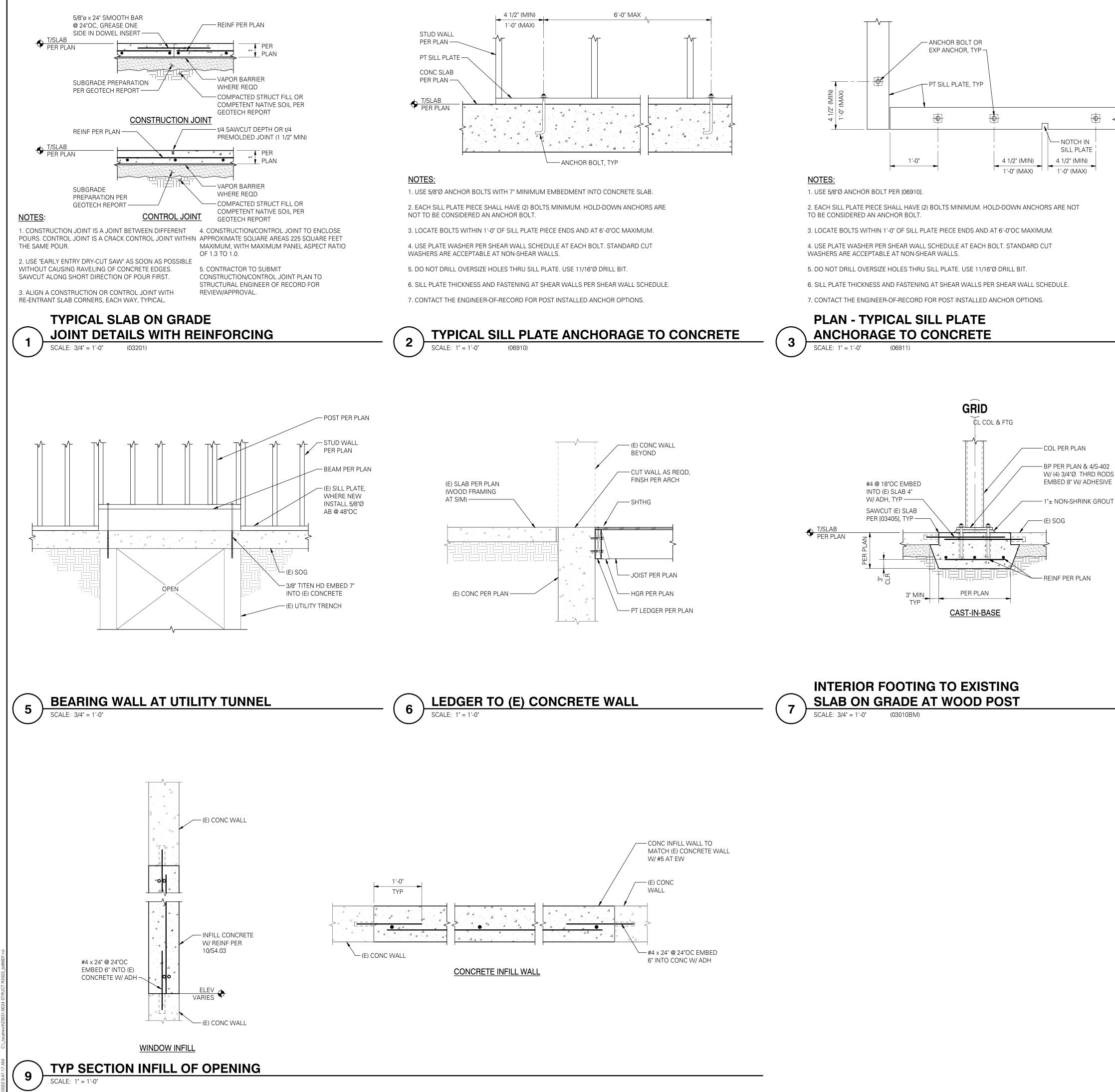


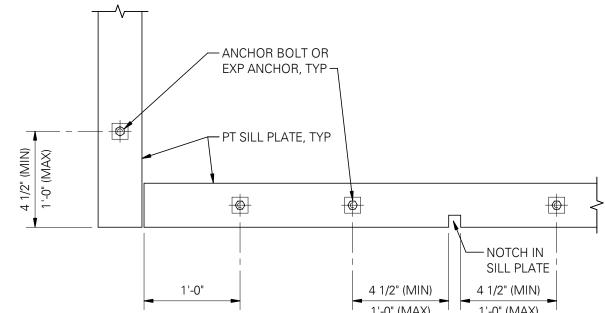


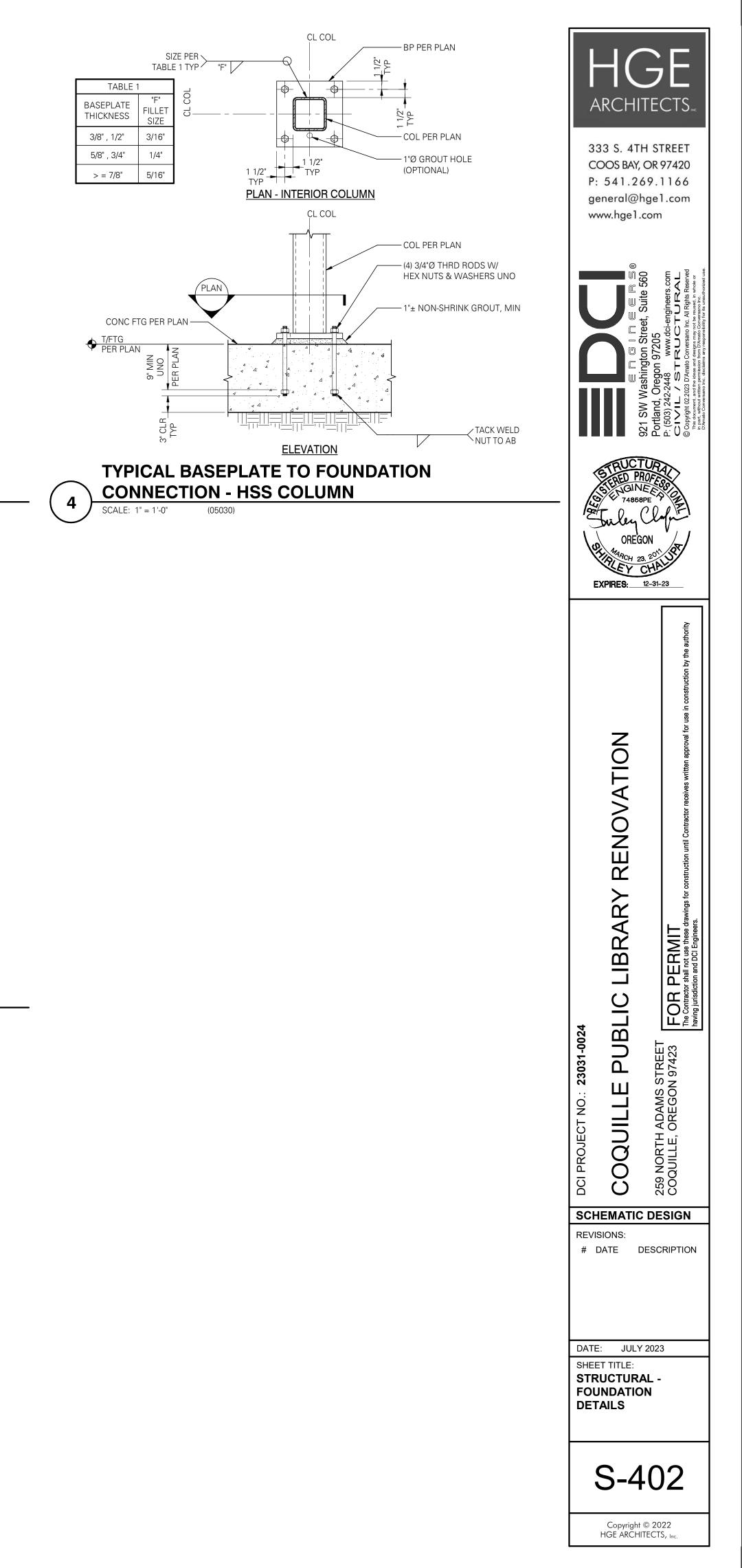


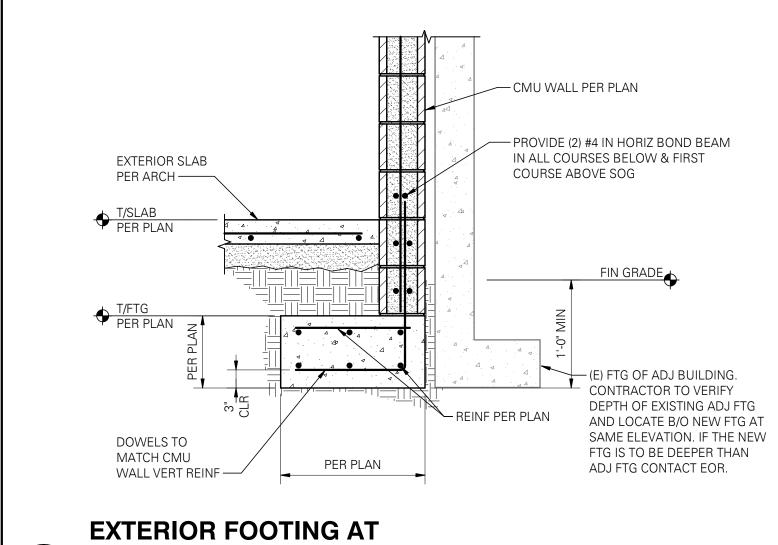
SCALE: 1/4" = 1'-0"











 CMU WALL (L SHAPED FOOTING)

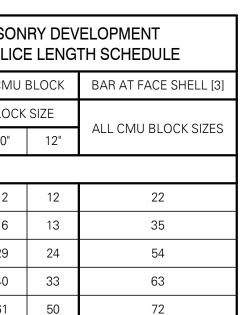
 SCALE: 3/4" = 1'-0"
 (03152)

01402 STRUCTURAL MASO LENGTH AND LAP SPLIC								
	BAR CI	ENTERED	IN CM					
BAR SIZE	NON	IINAL CM	U BLOO					
	6"	8"	10"					
f'm = 2000ps	i, f'y=6000	00psi						
#4	18	13	12					
#5	28	20	16					
#6	53	38	29					
#7	52							
#8		72	61					



# TYPICAL DEVELOPMENT LENGTH AND LAP SPLICE LENGTH SCHEDULE FOR STRUCTURAL MASONRY

TYPICAL REINFORCEMENT IN STRUCTURAL MASONRY



## NOTES:

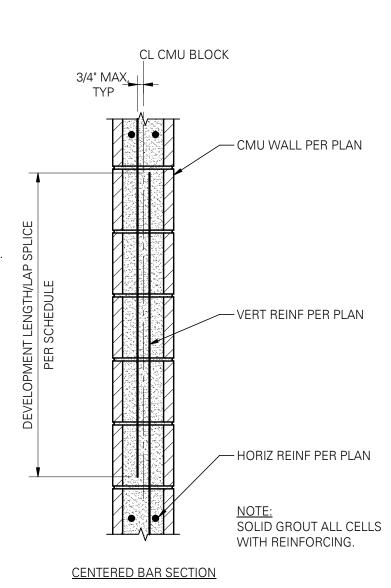
[1] DEVELOPMENT AND LAP SPLICE LENGTHS INDICATED SHALL BE USED NOTED OTHERWISE ON DRAWINGS.

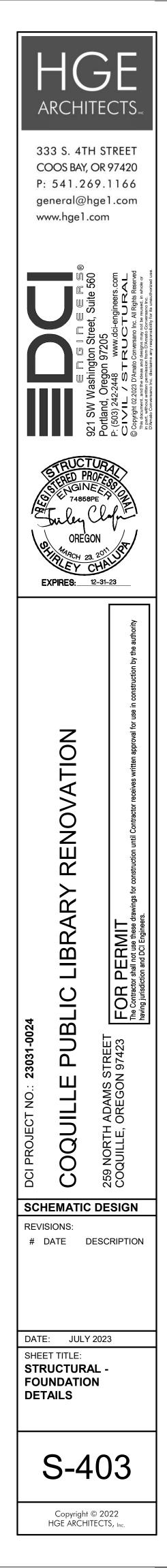
[2] REINFORCING MAY BE CONSIDERED TO BE SPLICED WHEN IN CONTACT OR WHEN BARS ARE IN ADJACENT GROUTED CELLS AND ARE SPACED NO FARTHER APART THAN 1/5 THE REQUIRED LAP

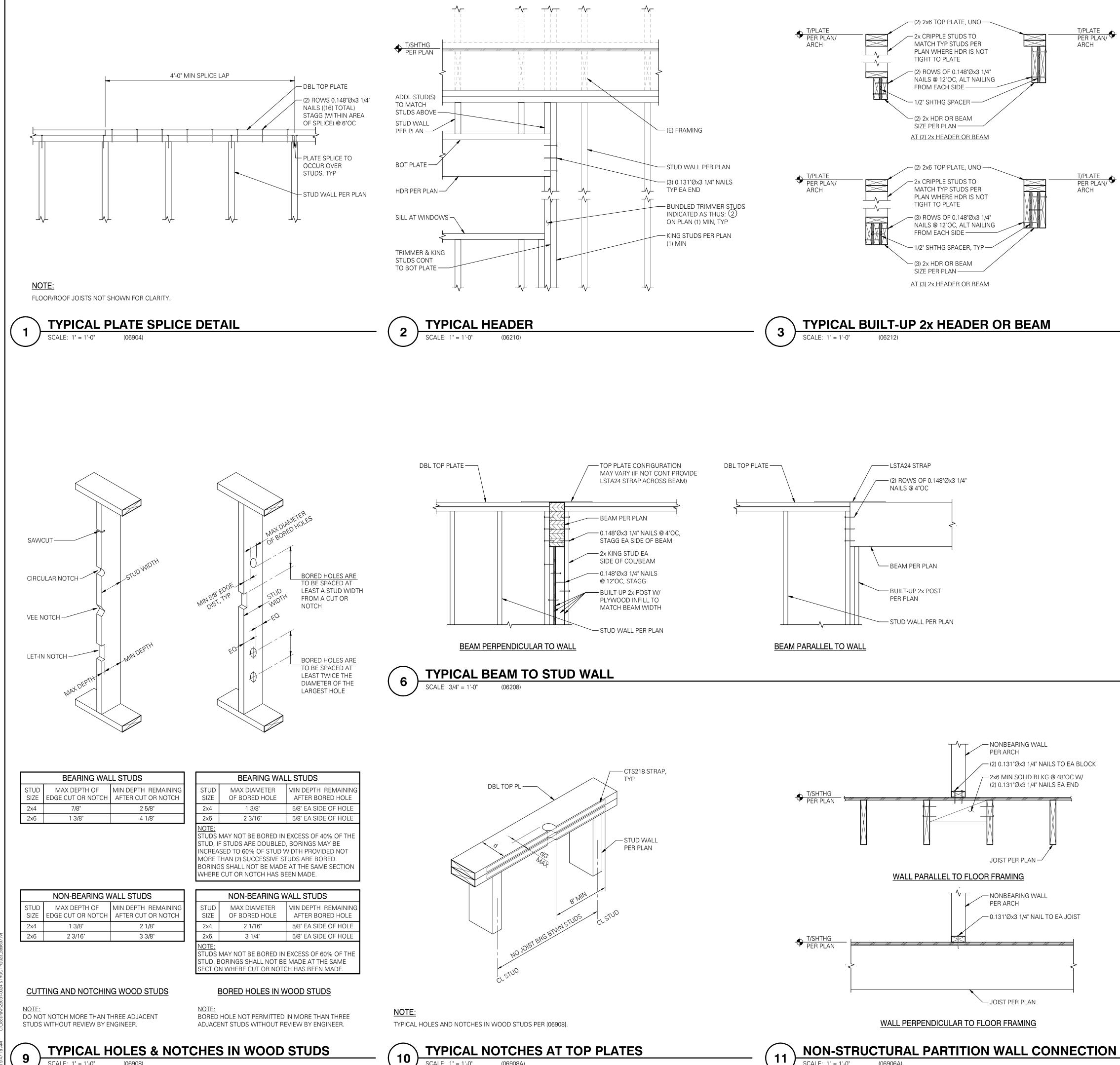
LENGTH INDICATED AND NEVER FURTHER APART THAN 8". [3] PROVIDE 2" CLEAR COVER FOR ALL BARS. CLEAR COVER IS

DEFINED AS THE DISTANCE FROM THE NEAREST EXTERIOR MASONRY SURFACE TO OUTERMOST SURFACE OF REINFORCEMENT.

[4] ALL TABULATED VALUES ARE IN INCHES.







SCALE: 1" = 1'-0"

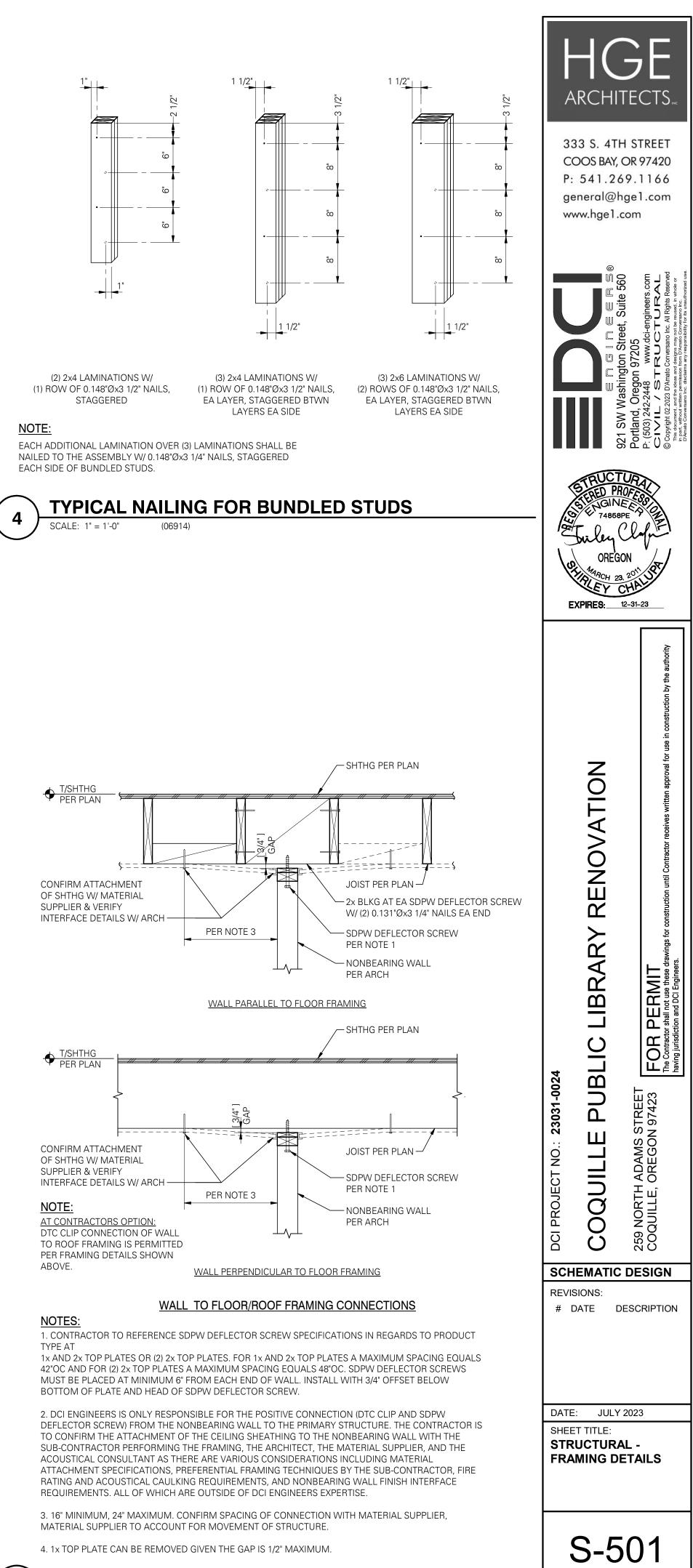
(06908)

(06908A)

SCALE: 1" = 1'-0"

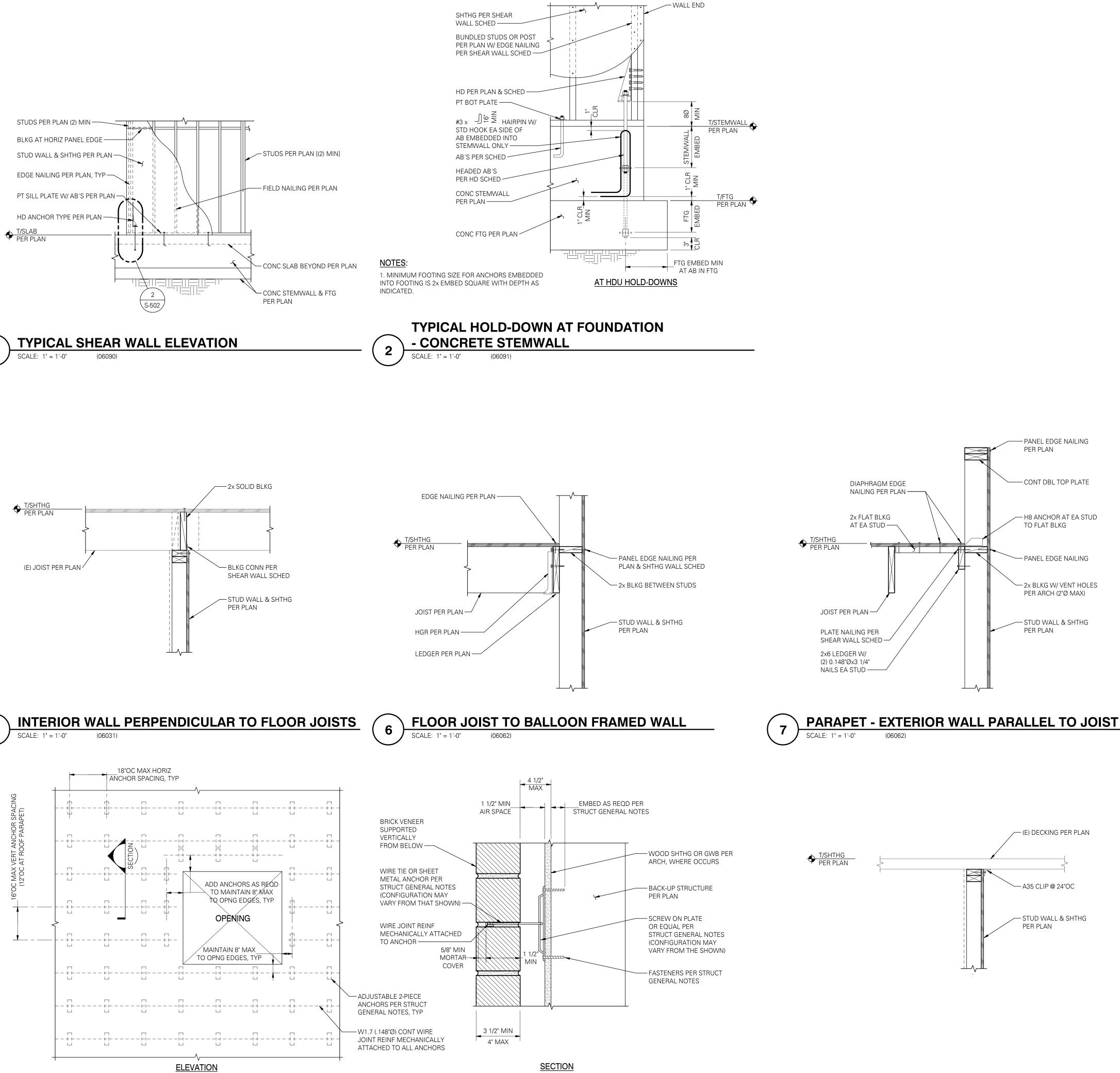
SCALE: 1" = 1'-0"

(06906A)



# NON-STRUCTURAL PARTITION WALL CONNECTION

SCALE: 1" = 1'-0" (06905A)



TYPICAL BRICK VENEER ANCHORAGE

SCALE: 3" = 1'-0" (04800B)

5

Ч

PARA

VERT ANC AT ROOF

C MAX (12"OC

9

01420	HOLD-DOWN/STRAP SCHEDULE - DOUG-FIR STUDS										
					ANCHOR [4]						
	NUMBER OF NAILS, SCREWS			CONCRE		IT/CAPAC	ITY				
TYPE STUDS/POST		DIAMETER	STEMWALL [5]		FOOTING		NOTES				
	[3, 10]	ON BOEIG	[8]	EMBED CIP [6, 11]	CAPACITY	EMBED CIP [6]	CAPACITY				
HDU4	(2) 2x	(10) SDS1/4x2 1/2	5/8"Ø	10"	4.6k	8"	4.6k				

## NOTES:

[1] SOME HOLD-DOWN TYPES MAY NOT BE USED ON THIS PROJECT.

[2] TYPICAL HOLD-DOWN DETAILS PER 2/S-502. ANCHOR REINFORCEMENT REQUIRED AT STEMWALLS.

[3] PROVIDE PANEL EDGE NAILING PER SHEAR WALL SCHEDULE AT HOLD-DOWN STUDS/POSTS.

[4] BASED ON MINIMUM f'c = 3000 PSI CONCRETE.

[5] STEMWALLS SHALL BE 8" WIDE x 18" TALL MINIMUM.

[6] CAST-IN-PLACE (CIP) TYPE THREADED RODS AT HOLD-DOWNS SHALL HAVE TWO HEX HEAD NUTS WITH OVERSIZED WASHERS.

[7] INCLUDES 1.6 LOAD DURATION INCREASE FOR WOOD.

[8] AT PRESSURE TREATED SILLS, USE HOT DIPPED GALVANIZED BOLTS.

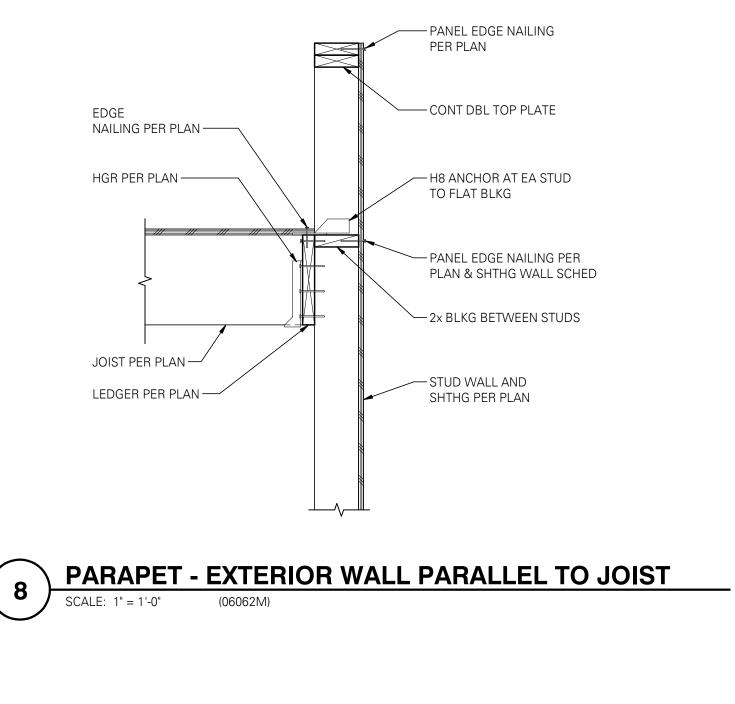
[9] POST INSTALLED HOLD-DOWN OPTIONS MAY BE AVAILABLE AT SOME CONDITIONS. CONTACT ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

[10] NAIL LAMINATE MULTIPLE 2x STUDS WITH PLATE NAILING PER SHEAR WALL SCHEDULE.

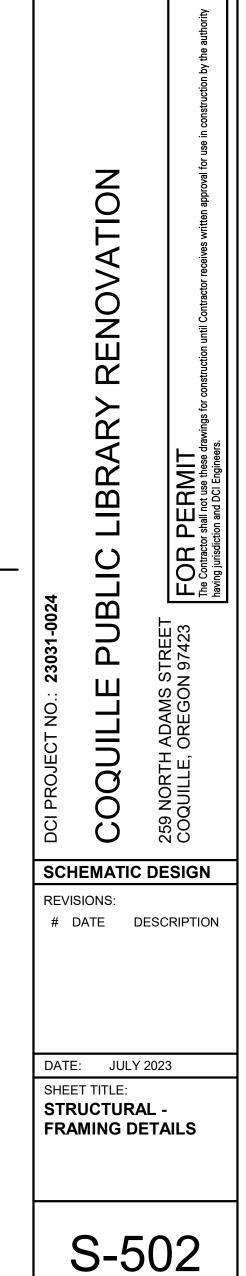
[11] STUD WALLS SHALL BE 2x6, CENTER HOLD-DOWN IN STUD WALL.

### HOLD-DOWN/STRAP SCHEDULE - DOUG-FIR STUDS SCALE: 1" = 1'-0" (01420)

4



- TRIMMER PER PLAN



─ (E) FLOOR

JOIST BEYOND

- HDR PER PLAN

ARCHITECTS

333 S. 4TH STREET

COOS BAY, OR 97420

P: 541.269.1166

general@hge1.com

www.hge1.com

EXPIRES: 12-31-23

**BEAM IN EXISTING WALL FRAMING** 12 SCALE: 3/4" = 1'-0"

(E) DECK PER PLAN -----

BEAM PER PLAN —

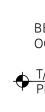
LCE4 POST CAP-

POST PER PLAN -

PLYWOOD SHIM

AS REQ'D —

3/4"Ø -	A325-N	SINC	GLE ROW		BEAN	/I Fy=50KSI - CONN	IECTION PLATE	Fy=36KSI							
BEAM	"N" BOLTS	SHEAR PLATE	MIN HSS COLUMN	WELD	MAX SINGLE	MAX DOUBLE	CONNECTIO	N CAPACITY-LF (KIPS)	RFD [ASD] (3)						
SIZE	REQUIRED (1)	OR WT STEM THICKNESS	WALL THICKNESS (8)	SIZE t	COPE DEPTH (7)	COPE DEPTH (7)		CO	PED						
	(1)	THICKINESS	(0)								(7) (7)	(77	UNCOPED	SINGLE	DOUBLE
C8,C9,C10	2	5/16"	1/4"	1/4"	1 1/4"	NR (9)	21.5 [14.3]	21.5 [14.3]	NR (9)						
W8	2	5/16"	1/4"	1/4"	1 1/4"	NR (9)	21.5 [14.3]	14.7 [9.8]	NR (9)						
W10	2	5/16"	1/4"	1/4"	2 1/2"	1 1/4"	21.5 [14.3]	19.2 [12.8]	16.6 [11.0]						
C12,C15	3	5/16"	1/4"	1/4"	2"	1 1/4"	42.0 [28.0]	42.0 [28.0]	40.9 [27.2]						
W12	3	5/16"	1/4"	1/4"	2"	1 1/4"	41.7 [27.8]	30.8 [20.5]	25.1 [16.7]						
W14	3	5/16"	1/4"	1/4"	2 1/2"	1 1/2"	42.0 [28.0]								
W16	4	5/16"	1/4"	1/4"	2 1/2"	1 1/2"	61.3 [40.9]		EQUAL TO						
W18	5	5/16"	1/4"	1/4"	2 1/2"	1 1/2"	80.2 [53.5]		UNCOPED						
W21	6	5/16"	1/4"	1/4"	2 1/2"	1 1/2"	84.5 [56.4]	EQUAL TO	CAPACITY						
W24	7	5/16"	1/4"	1/4"	2 1/2"	1 1/2"	104.0 [69.3]	UNCOPED							
W27	8	5/16"	1/4"	1/4"	2 1/2"	NR (9)	123.1 [82.1]	CAPACITY	NR (9)						
W30	8	5/16"	1/4"	1/4"	2 1/2"	NR (9)	123.1 [82.1]		NR (9)						
W33	9	5/16"	1/4"	1/4"	2 1/2"	NR (9)	142.2 [94.8]		NR (9)						
W36	10	5/16"	1/4"	1/4"	2 1/2"	NR (9)	158.3 [105.5]		NR (9)						



NOTE:

1. PROVIDE EITHER STANDARD OR HORIZONTAL SHORT SLOTTED HOLES AS PERMITTED BY AISC J3.2 IN THE BEAM WEB AND/OR THE SHEAR PLATE.

2. WHERE SHORT-SLOTTED HOLES ARE USED, PROVIDE HARDENED WASHERS PER AISC J3.2.

3. CAPACITIES BASED ON AISC 15TH EDITION WITH ASTM A325-N BOLTS.

4. HORIZONTAL DISTANCE FROM SUPPORT FACE TO CENTERLINE OF BOLT GROUP SHALL BE AS SHOWN IN DETAIL, BUT SHALL NOT EXCEED 3 1/2" IN THE AS-BUILT CONDITION. SUPPORT FACE FOR TEE IS THE INSIDE FACE OF FLANGE.

5. GAP BETWEEN BEAM END AND SUPPORT FACE SHALL BE 1/2" EXCEPT FOR "WT" CONNECTORS USED WITH HSS COLUMNS. WHERE "WT" ARE USED AS SHEAR TAB ELEMENTS, THE GAP BETWEEN FACE OF COLUMN AND END OF BEAM SHALL NOT EXCEED THE LESSER OF 1 1/2" OR THE "k" DISTANCE OF THE "WT" PLUS 1/4".

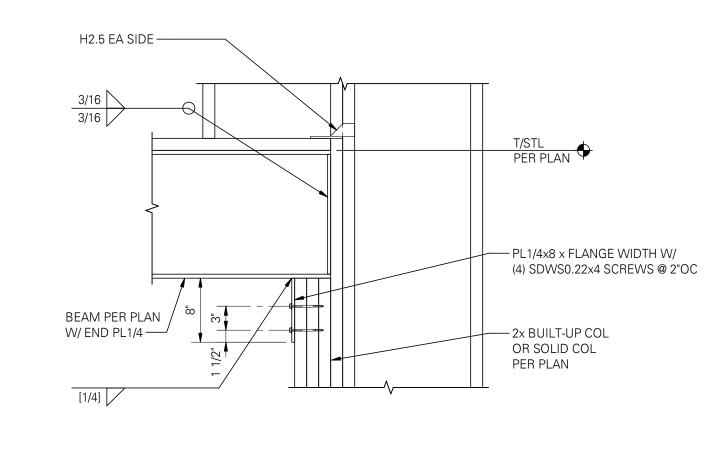
6. FIELD FILLET WELDS SHALL BE SIZED TO BE AT LEAST 1/8" LARGER THAN THE WELD SIZE SHOWN IN SCHEDULE "A", UNLESS PROPER FIT-UP IS VERIFIED BY A SPECIAL INSPECTOR PRIOR TO WELDING.

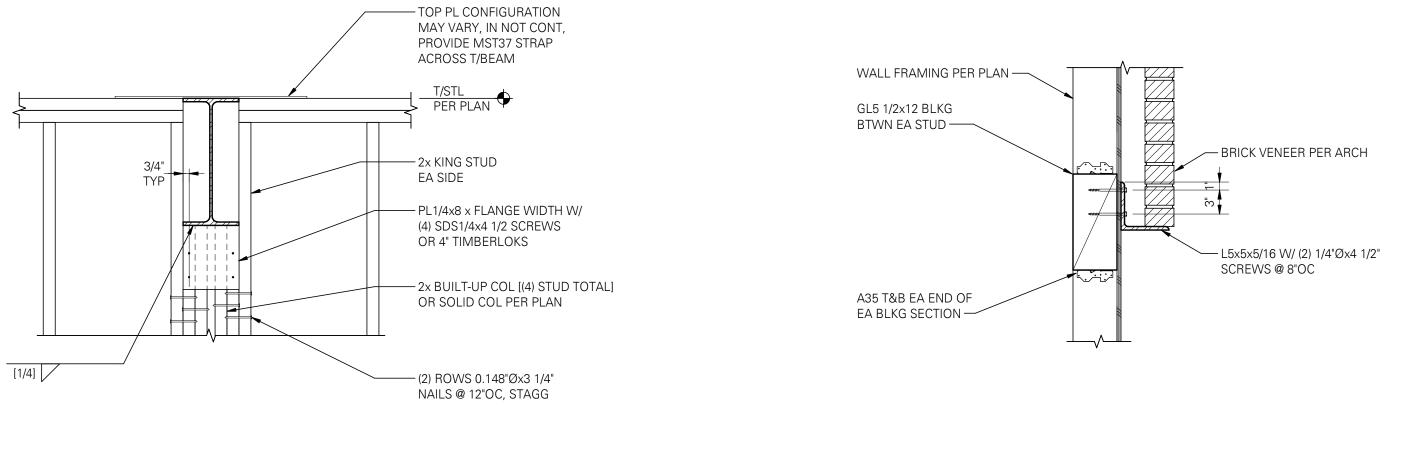
7. COPE DEPTHS (SINGLE AND DOUBLE) SHALL NOT EXCEED THE LESSER OF THOSE SHOWN IN SCHEDULE "A", NOR AS ALLOWED BY BOLT HOLE SPACING AND MINIMUM EDGE DISTANCE REQUIREMENTS. COPE LENGTHS (SINGLE AND DOUBLE) SHALL NOT EXCEED 6 1/2". [WHERE COPE LENGTH EXCEEDS 6 1/2", PROVIDE WEB STIFFENERS PER [05218]].

8. UNCOPED CAPACITIES OF WT CONNECTIONS ARE VALID WITH MINIMUM NOMINAL HSS COLUMN WALL TABULATED THICKNESS. THE EFFECTIVE THROAT OF FLARE BEVEL GROOVE WELDS IS BASED ON OUTSIDE RADIUS OF HSS, AND IS TAKEN AS 5/8 TIMES THE HSS WALL THICKNESS BASED ON AWS D1.1, TABLE 2.1. WHEN 3/4" DIAMETER A325-N BOLTS ARE USED, A 3/16" HSS COLUMN WALL THICKNESS IS PERMITTED WITH A 20% REDUCTION OF THE WT CONNECTION CAPACITY.

9. NR = NOT RECOMMENDED. DOUBLE COPES FOR THESE BEAMS ARE RESTRICTED BY CONNECTION GEOMETRY AND/OR LARGE REDUCTIONS IN SHEAR CAPACITY. DOUBLE COPES ARE POSSIBLE, BUT CAPACITIES MUST BE CALCULATED FOR SPECIFIC BEAM AND GIRDER GEOMETRIES AND MUST BE DETAILED SEPARATELY.





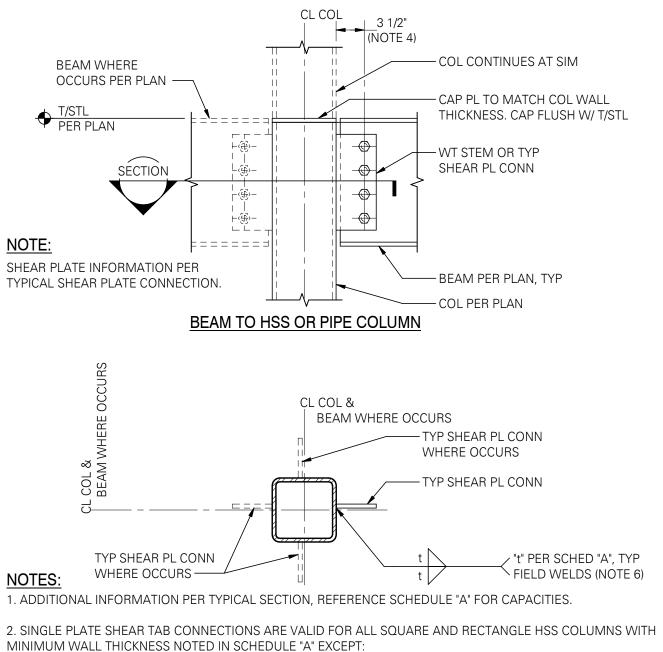


STEEL BEAM PERPENDICULAR TO STUD WALL

**TYPICAL STEEL BEAM AT STUD WALL** SCALE: 1" = 1'-0" (06208A)

STEEL BEAM PARALLEL TO STUD WALL

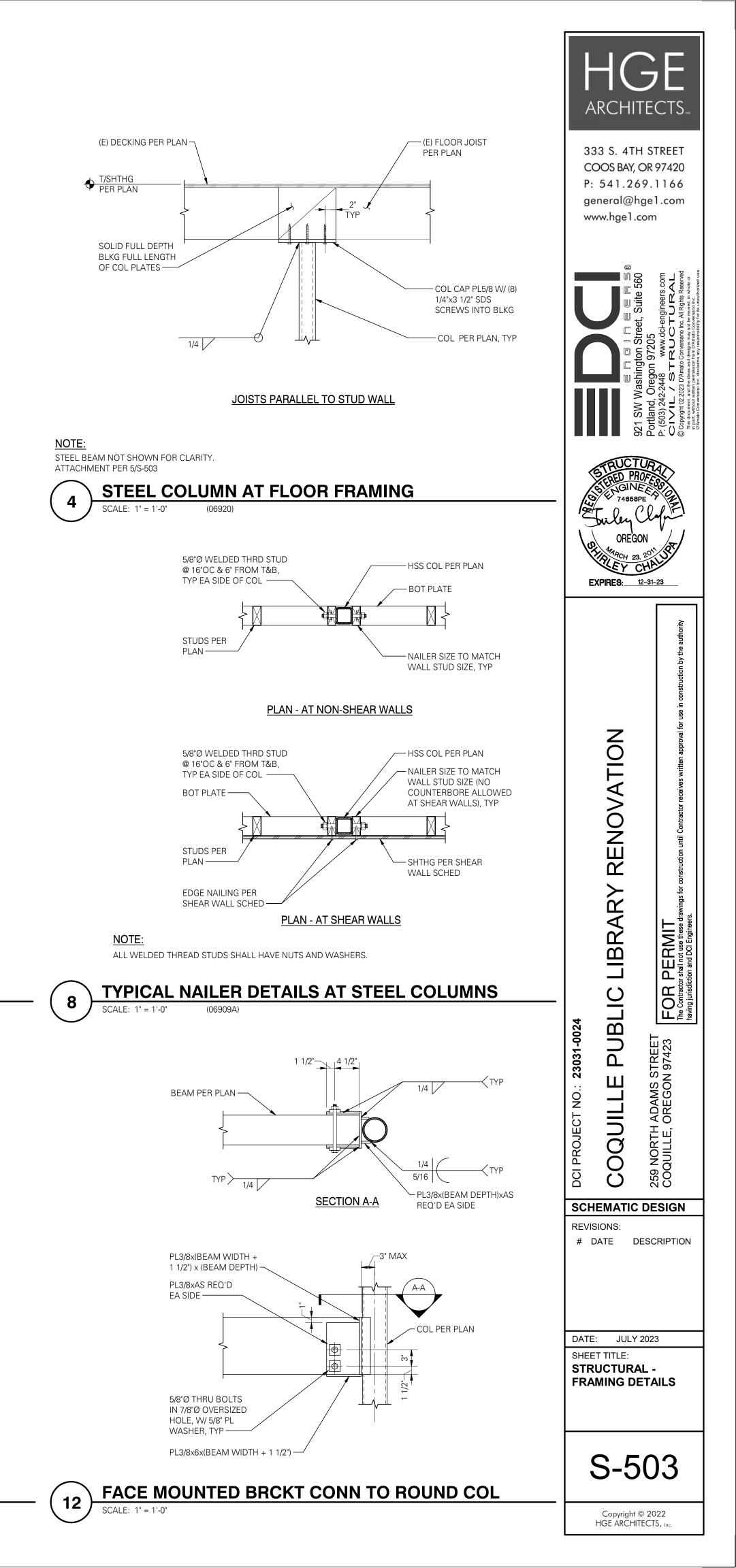
9



- HSS9x\_\_x1/4 - HSS10x\_x1/4
- HSS12x\_x1/4
- HSS12x\_\_x5/16
- ALL HSS LARGER THAN 14x

3. FOR COLUMNS THAT DO NOT MEET THE SIZE REQUIREMENTS OF NOTE 2, USE ALTERNATE SECTION DETAIL BELOW. **TYPICAL SECTION AT HSS COLUMN** 

> LEDGER AT SOUTH PROPERTY LINE WALL 11 SCALE: 1" = 1'-0"



01430A	430A SHEAR WALL SCHEDULE W6 FOR 0.148"Øx 2 1/2" NAILS IN DOUG-FIR LARCH (2018 IBC) [16] SOME SHEAR WALL TYPES NOTED MAY NOT BE USED ON THIS PROJECT.										
WALL	WALL SHEATHING	NAIL SIZE & SPACING	BLOCKING & STUD	RIM JOIST OR BLOCKING	2x PLATE ATTACHMENT	SILL PLATE A	TTACHMENT	SHEAR CAPACITY			
TYPE	APA-RATED [1, 2, 12]	AT ALL PANEL EDGES [4, 5]	SIZE AT ADJOINING PANEL EDGES [3, 6, 13]	CONN TO TOP PLATE BELOW [7, 8]	NAILING TO WOOD RIM JOIST OR BLOCKING BELOW	ANCHOR BOLT TO CONCRETE BELOW [10]	SILL PLATE AT FOUNDATION [11]	LBS/FT			
W6	15/32"	0.148"Øx2 1/2" @ 6"OC	2x	CLIP @ 16"OC	0.148"Øx3 1/4" @ 6"OC	5/8"Ø @ 48"OC	2x	310			
10/4	1 5 /0.0"	0.148"Øx2 1/2" @ 4"OC	2.4			5/8"Ø @ 32"OC	2x	460			
W4	15/32"	STAGGERED	3x	CLIP @ 12"OC	0.148"Øx3 1/4" @ 4"OC	5/8"Ø @ 48"OC	3x [15]	460			
14/0	15/32"	0.148"Øx2 1/2" @ 3"OC	27	CLIP @ 16"OC	0.148"Øx3 1/4" @ 6"OC	5/8"Ø @ 24"OC	2x	600			
W3	10/32	STAGGERED	3x	EACH SIDE	(2) ROWS [9]	5/8"Ø @ 32"OC	3x [15]	600			

### NOTES:

[1] INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY.

[2] WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON THE OPPOSITE SIDES ARE NOT LOCATED ON THE SAME STUD.

[3] BLOCKING IS REQUIRED AT ALL PANEL EDGES.

[4] PROVIDE SHEAR WALL SHEATHING AND NAILING FOR THE ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY WINDOWS OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLD-DOWN REQUIREMENTS PER PLANS. (ALTERNATE NOTE: WALLS SHOWN WITH HORIZONTAL STRAPS BELOW AND/OR ABOVE OPENINGS REQUIRE SHEATHING, SHEAR WALL NAILING, ETC ABOVE AND BELOW ALL OPENINGS).

[5] SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLD-DOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLD-DOWN POSTS. ADDITIONAL INFORMATION PER HOLD-DOWN DETAILS.

[6] INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS. ATTACH SHEATHING TO INTERMEDIATE FRAMING WITH 0.148"Øx2 1/2" NAILS AT 12"OC WHERE STUDS ARE SPACED AT 16"OC AND 0.148"Øx2 1/2" NAILS AT 6"OC WHERE STUDS ARE SPACED AT 24"OC.

[7] BASED ON 0.131"Øx1 1/2" NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131"Øx2 1/2" NAILS WHERE INSTALLED OVER SHEATHING.

[8] FRAMING CLIPS: A35 OR LTP5 OR APPROVED EQUIVALENT.

[9] WHERE BOTTOM PLATE ATTACHMENT SPECIFIES (2) ROWS OF NAILS OR SCREWS, PROVIDE DOUBLE JOIST, RIM JOIST OR EQUAL BELOW. STAGGER NAILS/SCREWS IN ROWS 1 1/2" APART MINIMUM.

# WASHER TO EXTEND TO WITHIN 1/2" OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) WITH MINIMUM. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE.

[11] PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES (FRAMING ANGLES, ETC) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS. ADDITIONAL INFORMATION PER STRUCTURAL GENERAL NOTES.

[12] WHERE WOOD SHEATHING (W) IS APPLIED OVER GYPSUM SHEATHING (G), CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS.

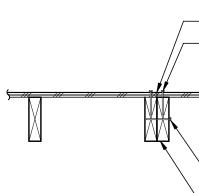
[13] AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF SINGLE 3x STUD. DOUBLE 2x STUDS SHALL BE CONNECTED TOGETHER BY NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING, PER SECTION.

[14] CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVES TO CAST-IN-PLACE ANCHOR BOLTS. SPECIAL INSPECTION MAY BE REQUIRED.

[15] NAIL STUDS TO 3x SILL PLATES WITH EITHER (2) 0.148"Øx4" END NAILS OR (4) 0.131"Øx2 1/2" TOENAILS.

[16] WX WHERE "W" INDICATES WOOD SHEATHING AND "X" INDICATES EDGE NAIL SPACING.

[17] EDGE NAILS SHALL BE LOCATED 3/8" FROM PANEL EDGES.



PLAN

# **SHEAR WALL SCHEDULE - DOUG-FIR LARCH**

SCALE: 1" = 1'-0" (01430A)

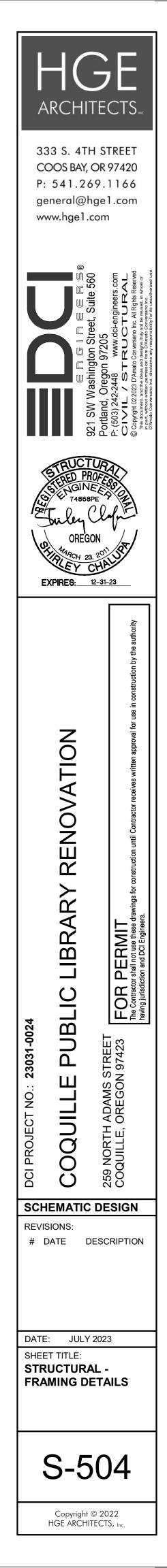
5

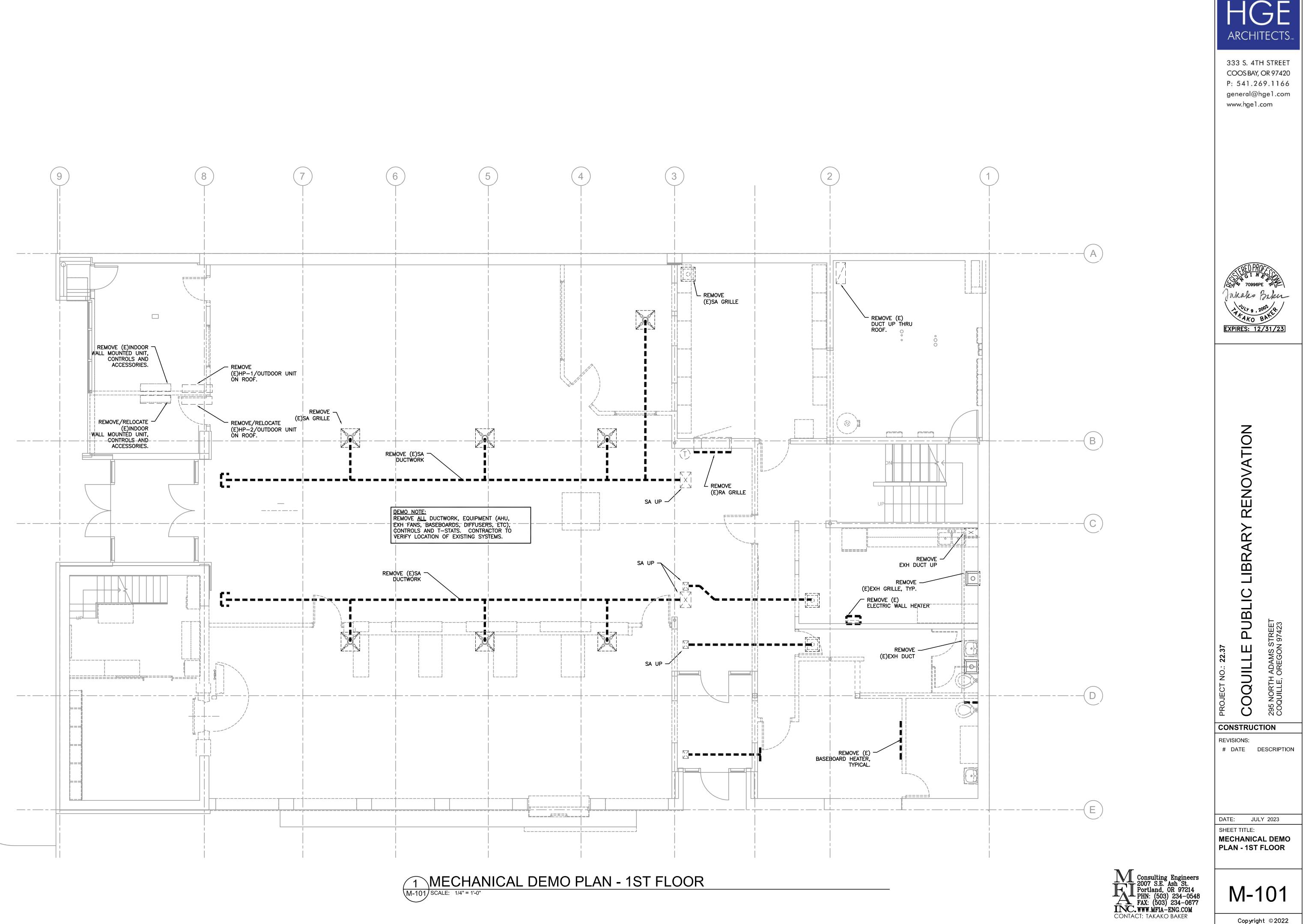
[10] ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS 0.229"x3"x3" MINIMUM. THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED 13/16"x1 3/4" PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT. PLATE SHEATHING. AT 2x6 WALLS WITH SHEATHING ON BOTH SIDES USE PLATE WASHER 0.229"x4 1/2"x4 1/2"

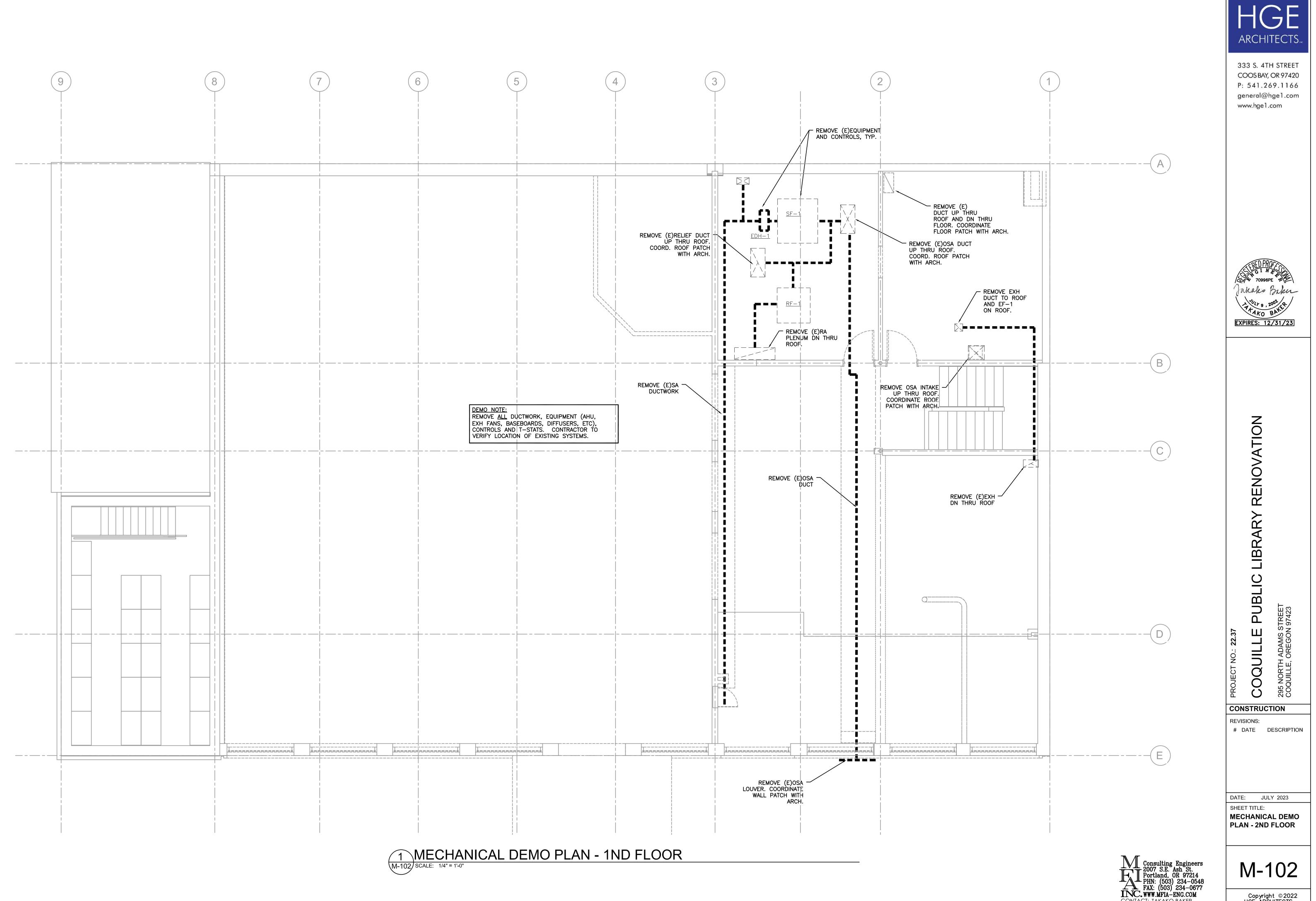
\_\_\_\_\_ADJOINING PANEL EDGE PANEL EDGE NAILING, TYP



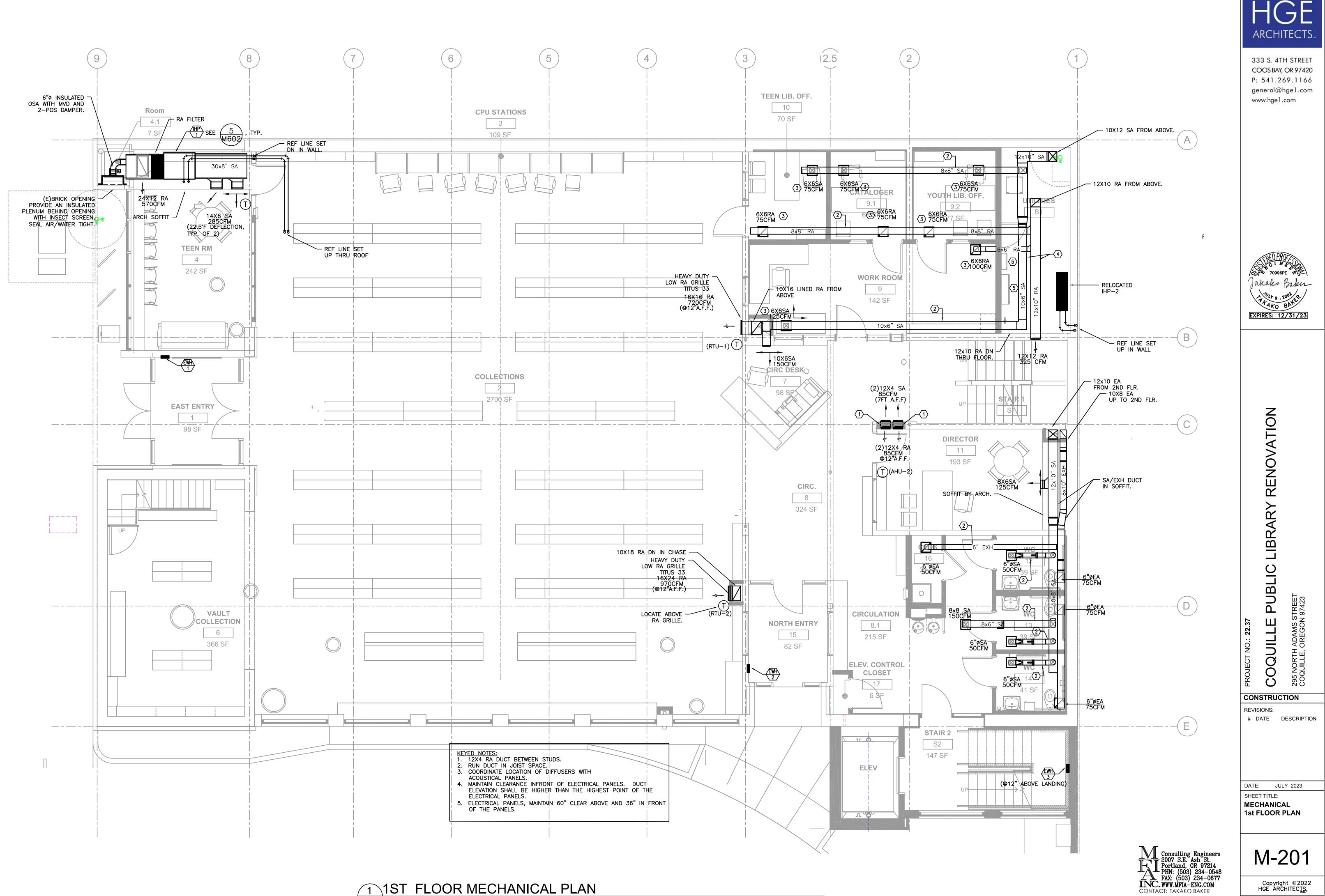
-NAILING TO MATCH PLATE NAILING (2) 2x STUDS



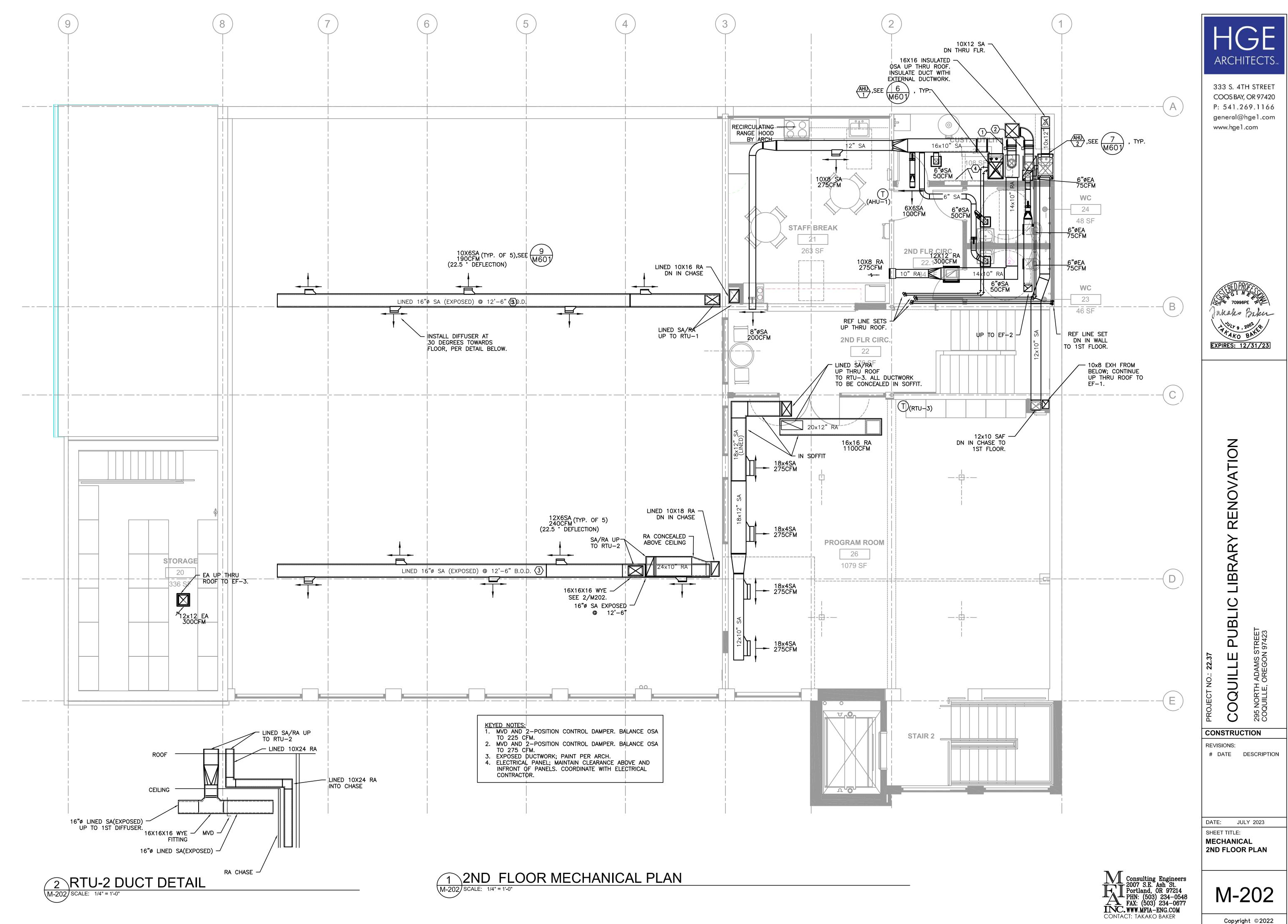


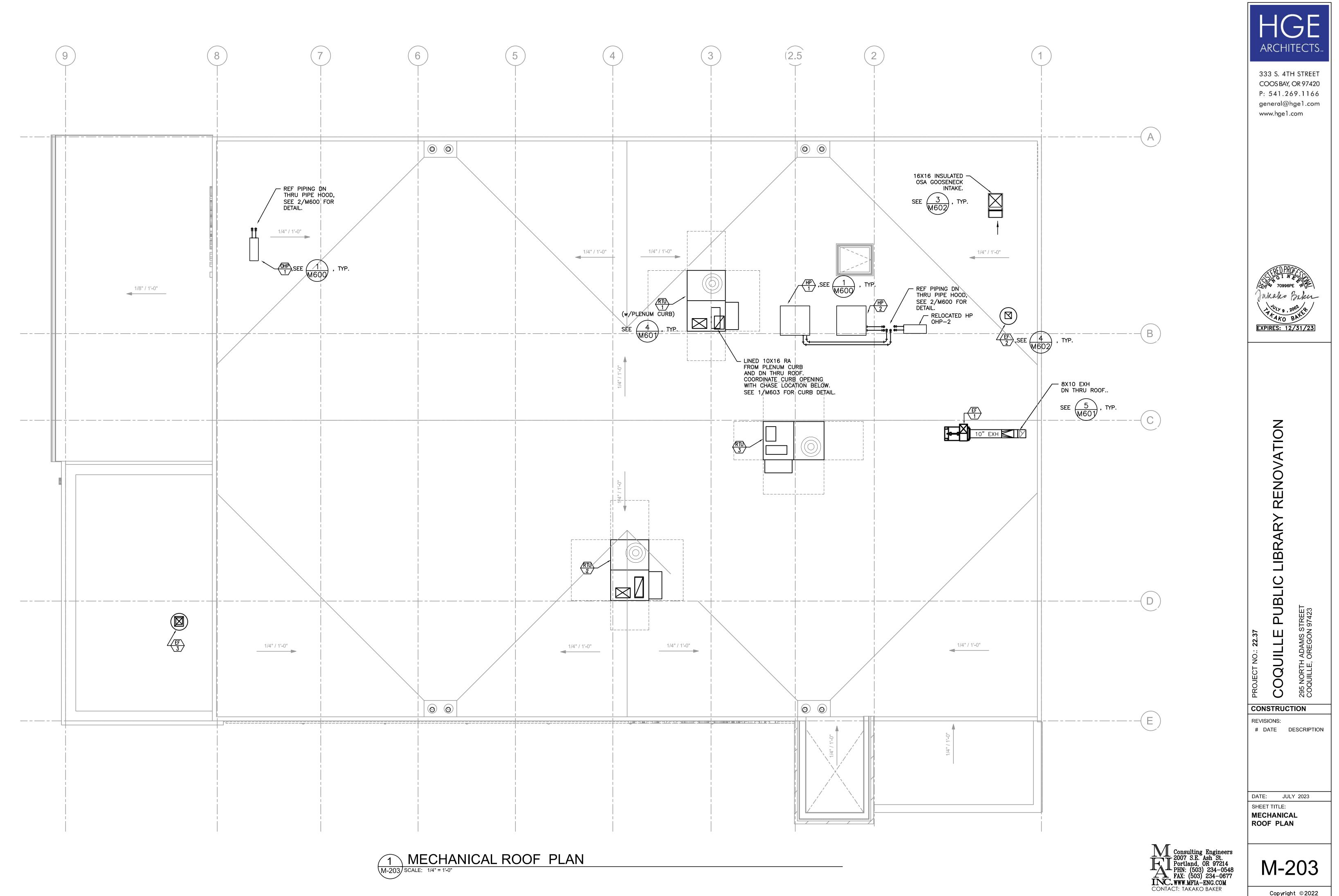


CONTACT: TAKAKO BAKER

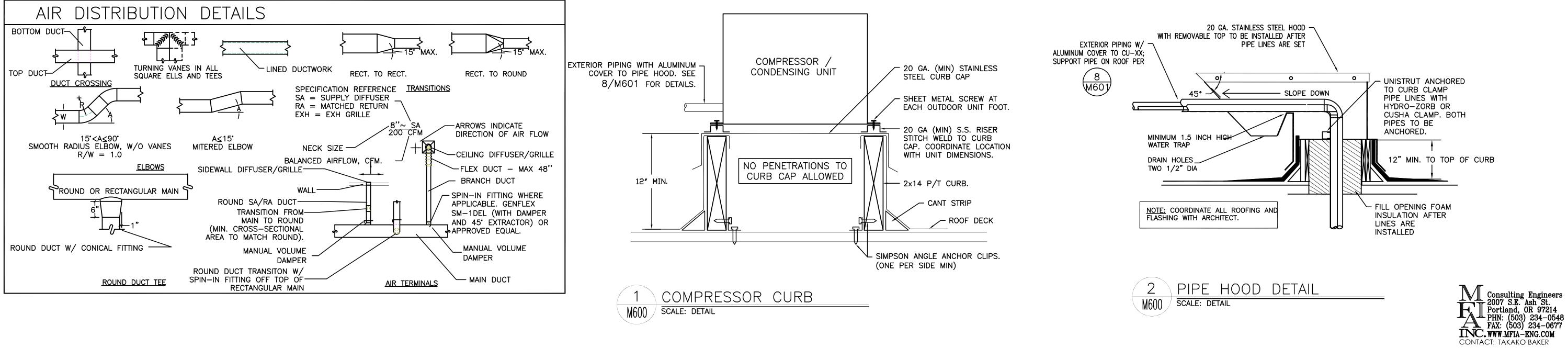








MECHANICAL LEGEND			MECHAN
SUPPLY AIR DIFFUSER	AFF	ABOVE FINISH FLOOR	
	AHU	AIR HANDLING UNIT	A. THE DRAWING UNDAMAGED)
ORETURN AIR GRILLE		BOTTOM OF DUCT BRAKE HORSEPOWER	BUILDING MÉ PROCEEDING
CEXHAUST AIR GRILLE	BTU	BRITISH THERMAL UNITS	
PERFORATED RETURN AIR PANEL	CONN. ·······	CONNECTION	B. REFER TO TH ADDITIONAL C
▲ OR +·········· DIRECTIONAL AIR FLOW		··········· CONTINUATION	C. ALL INSTALLA
MANUAL VOLUME DAMPER		··········· DRY BULB	INCLUDING, 2 APPENDIX N
SUPPLY OR OUTSIDE AIR	DIST. ······	DISTRIBUTION	SPECIALTY C
DUCT UP & DOWN		··········· EXHAUST AIR ·········· ENTERING DRY BULB TEMPERATURE	2021 OREGO 170-2021 A
		··········· ENTERING WET BULB TEMPERATURE	CODES DIFFE
EXHAUST AIR DUCT UP & DOWN	FF	FINISH FLOOR	D. OBTAIN ALL AUTHORITIES
SUPPLY OR OUTSIDE AIR	FPM ······	············ FIXTURE ··········· FEET PER MINUTE	ACCEPTANCE
DUCT UP & DOWN		············ FEET PER SECOND	E. COORDINATE
COMMENTATION AIR DUCT UP & DOWN	GA	GAUGÉ	ACCORDANCE
EXHAUST AIR DUCT UP & DOWN	Н	··········· GALLONS PER MINUTE	F. PROVIDE OWI SYSTEMS AT
		············ HORSEPOWER	
VAV TERMINAL UNIT	IN	INCHES	G. AIR BALANCE SEE SPECS
······································	LBS	············ LENGTH	ACCORDANCE REVIEW AND
		LEAVING DRY BULB	
	LWT	LEAVING WATER TEMPERATURE	H. PROVIDE MAN AND GRILLES
	MBH ······	············ MAXIMUM ············· THOUSANDS OF BTUs PER HOUR	I. INSULATE SU
TAC-4 THERMOSTAT OR TEMP. SENSOR		············ MINIMUM ··········· NOISE CRITERIA	LINE SUPPLY MECHANICAL
NOTE	N.C	NORMALLY CLOSED	
	NO	··········· NOT IN MECHANICAL	J. MANUFACTUR
2XXEQUIPMENT DESIGNATOR		············ NORMALLY OPEN	ARE THE BA
	P	PERSON	K. CUT WALLS F WHICH ARE (
时 ····································	PSI P/T	POUNDS PER SQUARE INCH	THROUGH.
	R.A	RETURN AIR RECTANGULAR	L. INSTALL LABE
	REQ'D ······	REQUIRED	M. CONTROLS A
BALANCING VALVE	S.A. <sup></sup> S.P. <sup></sup>	SUPPLY AIR STATIC PRESSURE	APPLICABLE OFFICIALS AN
	SQ. <sup></sup> TEMP. <sup></sup>	TEMPERATURE	N. ELECTRIC MC
	TYP	TYPICAL	PROTECTED LOW-VOLTAG
		WIDTH	O. ALL NEW EQ
PUMP	WB WPD	WET BULB	PER CURREN
STRAINER		DIAMETER	P. PROVIDE LOW
O PRESSURE GAUGE		(E) EXISTING	RELIEF AIR C
			V. PROVIDE STA DRAWINGS IN
海、小、海································DOUBLE CHECK ASSEMBLY		(D) DEMOLISH	REQUIREMEN
		NEW WORK	
	——— HW:	S (HWS) HEATING WATER SUPPLY	
🛱 ····································	—— нм	R	
WAY CONTROL VALVE	<b>(</b> )	FIRE DAMPER	
		EIDE / SMOKE DANDER	
S SMOKE DETECTOR		FIRE / SMOKE DAMPER	
	$\bigcirc$	SMOKE DAMPER	
	4 4	SEISMIC BRACING	
	1 1		
	* *	LONGITUDINAL BRACING	
		LONGITUDINAL & LATERAL BRACING	
AIR DISTRIBUTION D	DETAIL	S	
BOTTOM DUCT-	· ·		
	<u>}</u>		
۹   ۹   <u> </u>			



# CAL GENERAL NOTES

S ARE DIAGRAMMATIC. PROVIDE ALL MATERIAL (NEW AND AND LABOR FOR A COMPLETE AND OPERABLE SYSTEM. VERIFY ALL SUREMENTS DIMENSIONS AND EQUIPMENT LOCATIONS BEFORE WITH ANY OF THE WORK.

E MECHANICAL SPECIFICATIONS FOR MATERIALS, EQUIPMENT, AND ONSTRUCTION INSTRUCTIONS NOT COVERED BY THESE PLANS.

TIONS SHALL COMPLY WITH APPLICABLE FEDERAL AND STATE CODES 022 OREGON STRUCTURAL SPECIALTY CODE (OSSC) INCLUDING FOR OREGON FIRE CODE REGULATIONS, 2021 OREGON PLUMBING DDE (OPSC), 2022 OREGON MECHANICAL SPECIALTY CODE (OMSC), N ENERGY EFFICIENCY SPECIALTY CODE (OEESC), ASHRAE STANDARD ID NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). WHERE TWO R THE MORE STRICT OF THE TWO SHALL BE FOLLOWED.

IECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE GOVERNING HAVING JURISDICTION. SUBMIT ALL CERTIFICATES PRIOR TO

WITH OTHER CRAFTS AS REQUIRED TO COMPLETE WORK IN WITH CONSTRUCTION SCHEDULE.

ER INSTRUCTION BY QUALIFIED PERSONNEL ON EQUIPMENT AND OWNER'S REQUEST.

DIFFUSERS AND GRILLES TO THE CFM INDICATED ON FLOOR PLANS. OR REQUIREMENTS. TESTING AND BALANCING SHALL BE IN WITH OWNER GUIDELINES. SUBMIT TAB REPORT FOR ENGINEER'S APPROVAL.

UAL BALANCING DAMPERS ON BRANCH DUCTS SERVING DIFFUSERS

PPLY AIR, OUTSIDE AIR AND RETURN AIR DUCTWORK OR INTERNALLY AIR AND RETURN AIR DUCTWORK AS SHOWN ON PLANS AND PER SPECIFICATIONS.

TRS AND MODEL NUMBERS LISTED IN THE EQUIPMENT SCHEDULES

OR PROPER EQUIPMENT, DUCT OR PIPE INSTALLATION. FILL HOLES OUT OVERSIZED FOR A TIGHT FIT AROUND OBJECTS PASSING PATCH AND SEAL FINISHES TO MATCH NEW OR EXISTING FINISHES.

LS ON ALL MECHANICAL EQUIPMENT.

ID WIRING SHALL MEET ALL ELECTRICAL REQUIREMENTS OF ELECTRICAL SPECIFICATIONS AND REQUIREMENTS OF OWNER, BUILDING D EQUIPMENT SUPPLIERS OF EQUIPMENT INSTALLED ON PROJECT.

TORS SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION OR BE XTERNALLY WITH SEPARATE THERMAL OVERLOAD DEVICES, WITH RELEASE OR LOCK OUT AS REQUIRED.

JIPMENT, PIPING, CONDUIT, AND DUCTWORK SHALL BE INSTALLED OREGON SEISMIC CODE REQUIREMENTS.

LEAK AUTOMATIC DAMPERS ON OUTSIDE AIR, EXHAUST AIR AND ONTROL DAMPERS WHERE THESE ARE INDICATED.

F TRAINING, OPERATION AND MAINTENANCE MANUALS AND RECORD ACCORDANCE WITH SPECS. SEE SPECIFICATIONS FOR ADDITIONAL

MA	RK	RTU	RTU	RTU	
NUI	MBER	1	2	3	
ТҮР	E				
S	CFM	950	1200	1100	
U	MIN. OSA (CFM) (MIN. OCCUPANCY)	100	100	100	
Ρ	MAX OSA (CFM) (FULL OCCUPANCY)	232	232	335	
	EXT. STATIC PRESS (IN.WC)	1"	1"	1"	
F	ВНР	0.48	0.78	0.56	
А					
Ν		-			
201	NER EXH CFM	950 CFM	1200 CFM	1100 CFM	
ΞХТ	. STATIC PRESS. (IN. WC)	0.5"	0.5"	0.5"	
МO	TOR HP	1/2 HP	1/2 HP	1/2 HP	
201	WER	208/3	208/3	208/3	
2	EAT (DB/WB)	72.5/62.3	73.1/62.3	71.9/63	
)	LAT(DB.WB)	51.3/50.5	51.3/50.1	53.4/52.6	
)	SENSIBLE (MBH)	21.8	22.4	21	
	TOTAL (MBH)	30	31.7	33	
	STAGES	2	2	2	
ł	EAT (DB)	65	65	65	
E	LAT (DB)	97.1	97.1	97.1	
4	AMBIENT CONDITION	47 F	47 F	47	
Г	HEATING CAPACITY (MBH)	32.9	32.9	33.6	
	AUX HEAT (KW)	4.9	4.9	4.9	
		-			
SEE	R/HSPF	16.2/8.8	16.2/8.8	16.2/8.8	
/0	LTAGE/PH	208/3	208/3	208/3	
MC.	A/MOP	24/30	24/30	24/30	
-ILT	TER TYPE	MERV 8	MERV 8	MERV 8	
SM	OKE DETECTOR	NO	NO	NO	
CC	DNOMIZER/CO2 CONTROL	YES	YES	YES	
OPE	ERATING WEIGHT (LBS)	660	660	660	
BAS	SIS OF DESIGN: CARRIER	50GCQM04	50GCQM04	50GCQM04	
CUF	3B	STANDARD	PLENUM	STANDARD	

CURB

NOTES: 1. PROVIDE WITH 14" CURB WITH PLENUM RETURN

2. FIELD INSTALL CO2 SENSOR IN RA DUCT

3. POWER EXHAUST REQUIRES SEPARATE POWER CONNECTION.

## ELECTRIC WALL HEATER SCHEDULE

MAI	RK	EWH	EWH	EWH	
NUN	MBER	1	2	3	
ТҮРЕ		WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	
Н	WATTS	750	750	750	
Е	VOLT./PH	120/1	120/1	120/1 6.3	
А	AMPS	6.3	6.3		
Т	CFM	65	65	65	
	LOCATION	ENTRY 1	ENTRY 2	STAIRS 2	
OPE	RATING WEIGHT (LBS)	12	12	12	
BAS	IS OF DESIGN: QMARK	CWH1151DSF	CWH1151DSF	CWH1151DSF	
NOTES		1,2	1,2	2,3	

NOTES:

 PROVIDE WITH THERMOSTAT WITH REMOTE OSA SENSOR. SET TEMP TO 60 DEGREES MEX. HEAT TO BE DISABLED WHEN OSA >=45 DEGREE F.

RECESSED IN WALL

BUILT IN THERMOSTAT (SET TO 60 DEGREE F, ADJUSTABLE)

NOTES
3
2
1

EXHAUST FAN SC	HEDULE			
MARK	EF	EF	EF	
NUMBER	1	2	3	
ТҮРЕ	UTILITY SET	CEILING CABINET	CEILING CABINET	
SYSTEM	1ST FLR RR'S	2ND FLR RR'S	STORAGE	
CFM	275	225	300	
		CENTRIFUGAL	CENTRIFUGAL	
	SINGLE BACKWARD	BACKWARD	BACKWARD	
WHEEL TYPE	INCLINED	INCLINED	INCLINED	
DRIVE	BELT	DD	DD	
EXT. STATIC PRESS (IN.WC)	0.5	0.5	0.5	
RPM	1135	1478	1665	
CONTROLLED BY	INTERLOCK WITH AHU-2	INTERLOCK	WITH AHU-1	
BACKDRAFT DAMPER	YES	YES	YES	
MOTORIZED DAMPER	NO	NO	NO	
MAXIMUM SONES	5.5 INLET	7.7	8.2	
VOLTAGE/PH	115/1	115/1	115/1	
НР	1/2 HP	1/4 HP	1/10 HP	
OPERATING WEIGHT (LBS)	110	80	80	
BASIS OF DESIGN: GREENHECK	USF-10	G-097-VG	G-080-VG	
NOTES	1,2,3	1,2,3	1,2,3	

NOTES: 1. ECM MOTOR.

PROVIDE ELECTRICAL DISCONNECT.
 ALUMINUM CONSTRUCTION.

SPLIT SYSTEN	IS	
INDOOR UNIT MARK NUMBER	IHP-1	IHP-2 (EXISTING)
HEAT PUMP/COOLING ONLY	HEAT PUMP	HEAT PUMP
LOCATION	TEEN ROOM	UTILITIES
ТҮРЕ	DUCTED	WALL MOUNTED
NOMINAL COOLING CAPACITY	1.5 TON	1 TON
TOTAL SUPPLY CFM	675	400
OSA CFM	80 CFM, NOTE 2	-
CONDENSATE PUMP	YES	YES
WEIGHT	85	85
BASIS OF DESIGNDAIKIN	FDMQ18RVJU	FTXS12LVJU
OUTDOOR UNIT MARK		
OUTDOOR UNIT MARK NUMBER	OHP-1	OHP-2 (EXISTING)
	<b>OHP-1</b>	OHP-2 (EXISTING)
NUMBER		
NUMBER # OF INDOOR UNITS	1	1
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER)	1 10.3/19.4	1 EXISTING
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER) NOMINAL TONS	1 10.3/19.4 1.5 TON	1 EXISTING 1 TON
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER) NOMINAL TONS NOMINAL COOLING CAP. (MBTU)	1 10.3/19.4 1.5 TON 17.6 MBH	1 EXISTING 1 TON EXISTING
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER) NOMINAL TONS NOMINAL COOLING CAP. (MBTU) NOMINAL HEATING CAP. (MBTU)	1 10.3/19.4 1.5 TON 17.6 MBH 21.6 MBH	1 EXISTING 1 TON EXISTING EXISTING
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER) NOMINAL TONS NOMINAL COOLING CAP. (MBTU) NOMINAL HEATING CAP. (MBTU) REFRIGERANT	1 10.3/19.4 1.5 TON 17.6 MBH 21.6 MBH 401A	1 EXISTING 1 TON EXISTING EXISTING 401A
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER) NOMINAL TONS NOMINAL COOLING CAP. (MBTU) NOMINAL HEATING CAP. (MBTU) REFRIGERANT MAX PIPE LENGTH (FEET)	1 10.3/19.4 1.5 TON 17.6 MBH 21.6 MBH 401A 98.5	1 EXISTING 1 TON EXISTING EXISTING 401A 98.5
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER) NOMINAL TONS NOMINAL COOLING CAP. (MBTU) NOMINAL HEATING CAP. (MBTU) REFRIGERANT MAX PIPE LENGTH (FEET) MAX PIPE HEIGHT	1 10.3/19.4 1.5 TON 17.6 MBH 21.6 MBH 401A 98.5 65.6	1 EXISTING 1 TON EXISTING EXISTING 401A 98.5 65.6
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER) NOMINAL TONS NOMINAL COOLING CAP. (MBTU) NOMINAL HEATING CAP. (MBTU) REFRIGERANT MAX PIPE LENGTH (FEET) MAX PIPE HEIGHT VOLTS/PHASE	1 10.3/19.4 1.5 TON 17.6 MBH 21.6 MBH 401A 98.5 65.6 208/1	1 EXISTING 1 TON EXISTING EXISTING 401A 98.5 65.6 208/1
NUMBER # OF INDOOR UNITS EFFICIENCEY (HSPF, SEER) NOMINAL TONS NOMINAL COOLING CAP. (MBTU) NOMINAL HEATING CAP. (MBTU) REFRIGERANT MAX PIPE LENGTH (FEET) MAX PIPE HEIGHT VOLTS/PHASE MCA/MOP	1 10.3/19.4 1.5 TON 17.6 MBH 21.6 MBH 401A 98.5 65.6 208/1 19.5/20	1 EXISTING 1 TON EXISTING EXISTING 401A 98.5 65.6 208/1 12.2/15

NOTES:

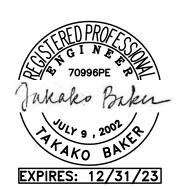
1. POWERED FROM OUTDOOR UNIT

2. DUCTED TO RA PLENUM.

3. PROVIDE WITH FIELD INSTALL FILTER CABINET.



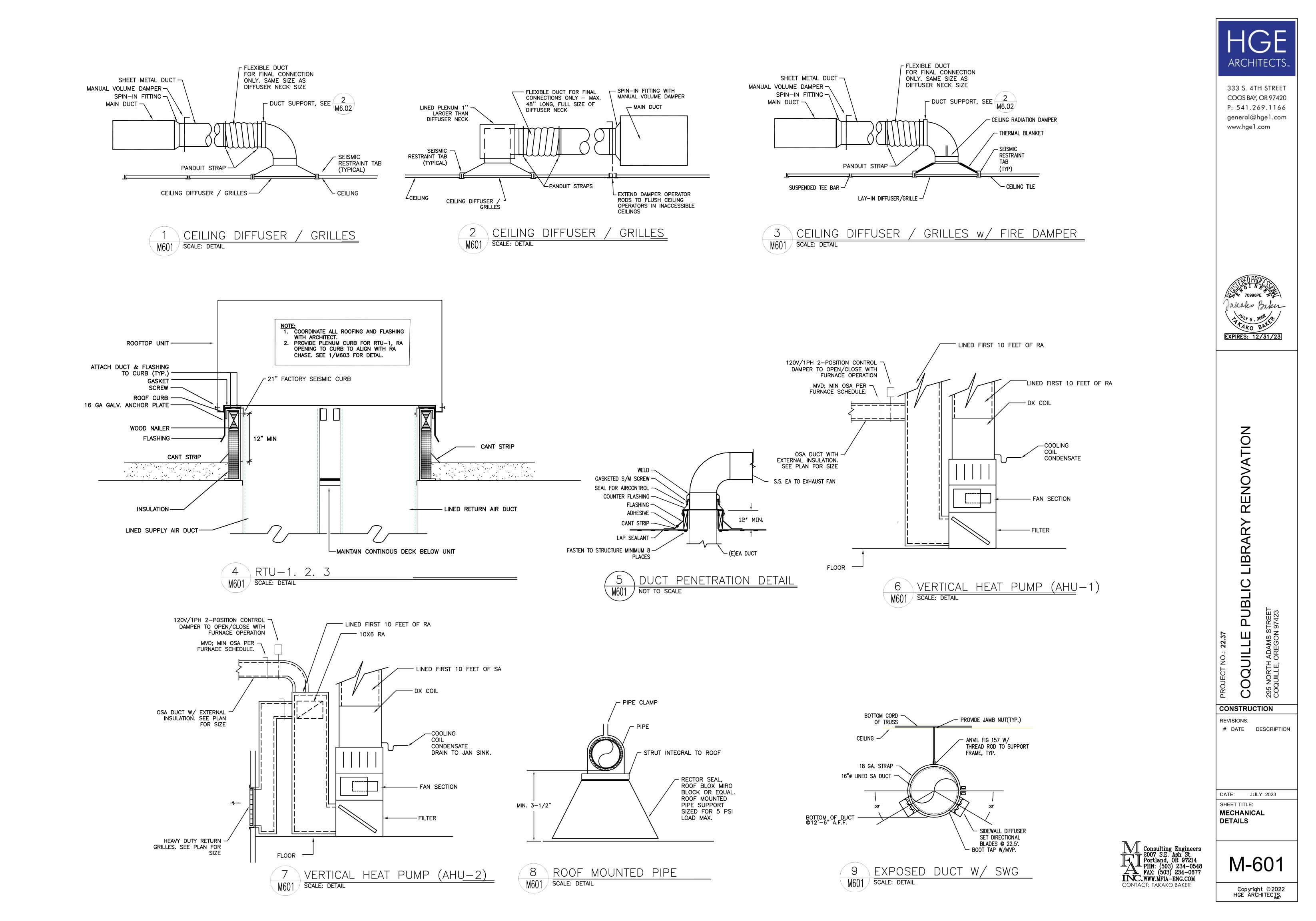
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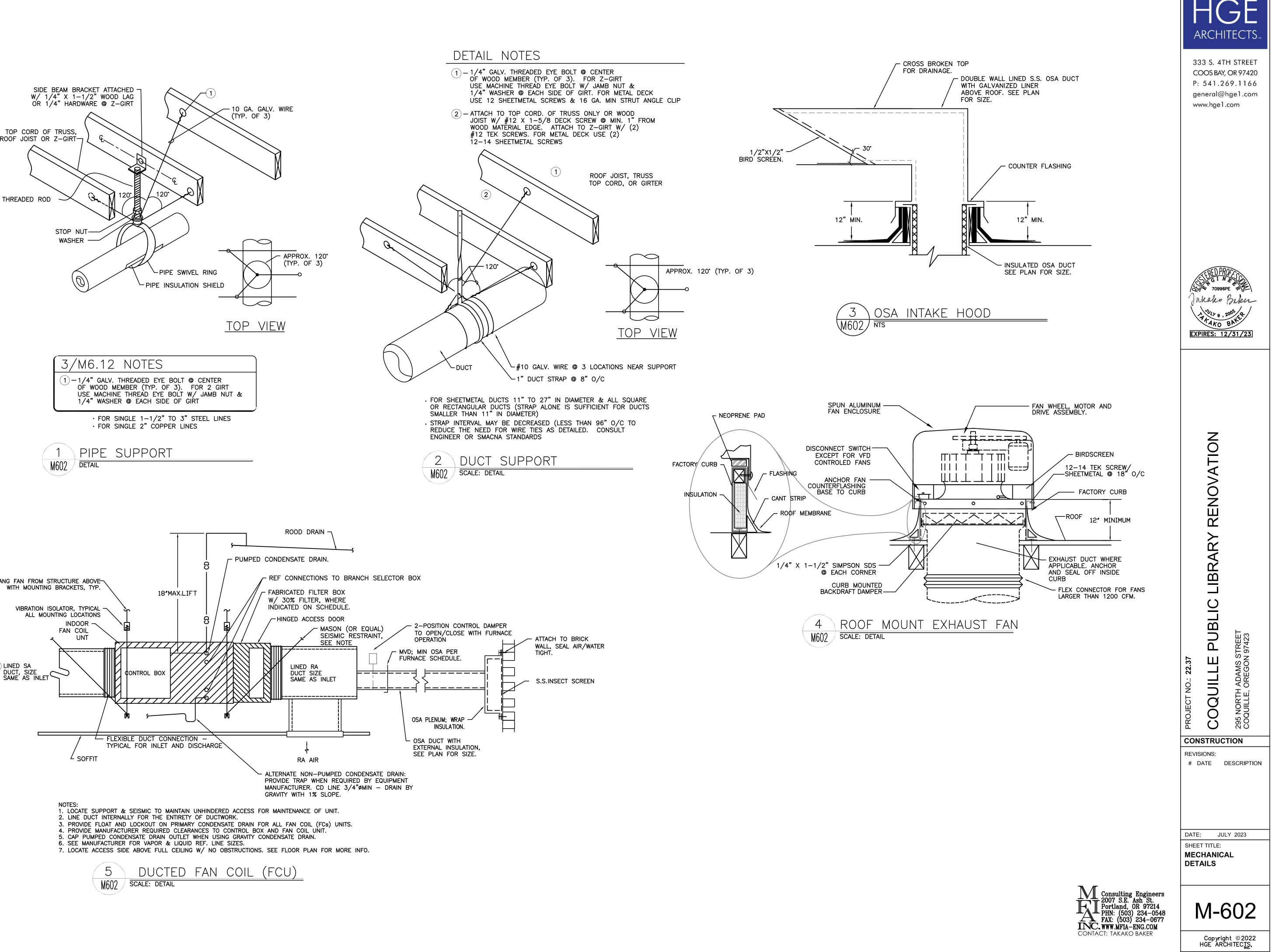


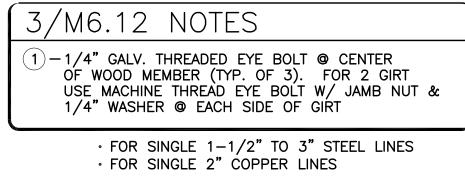


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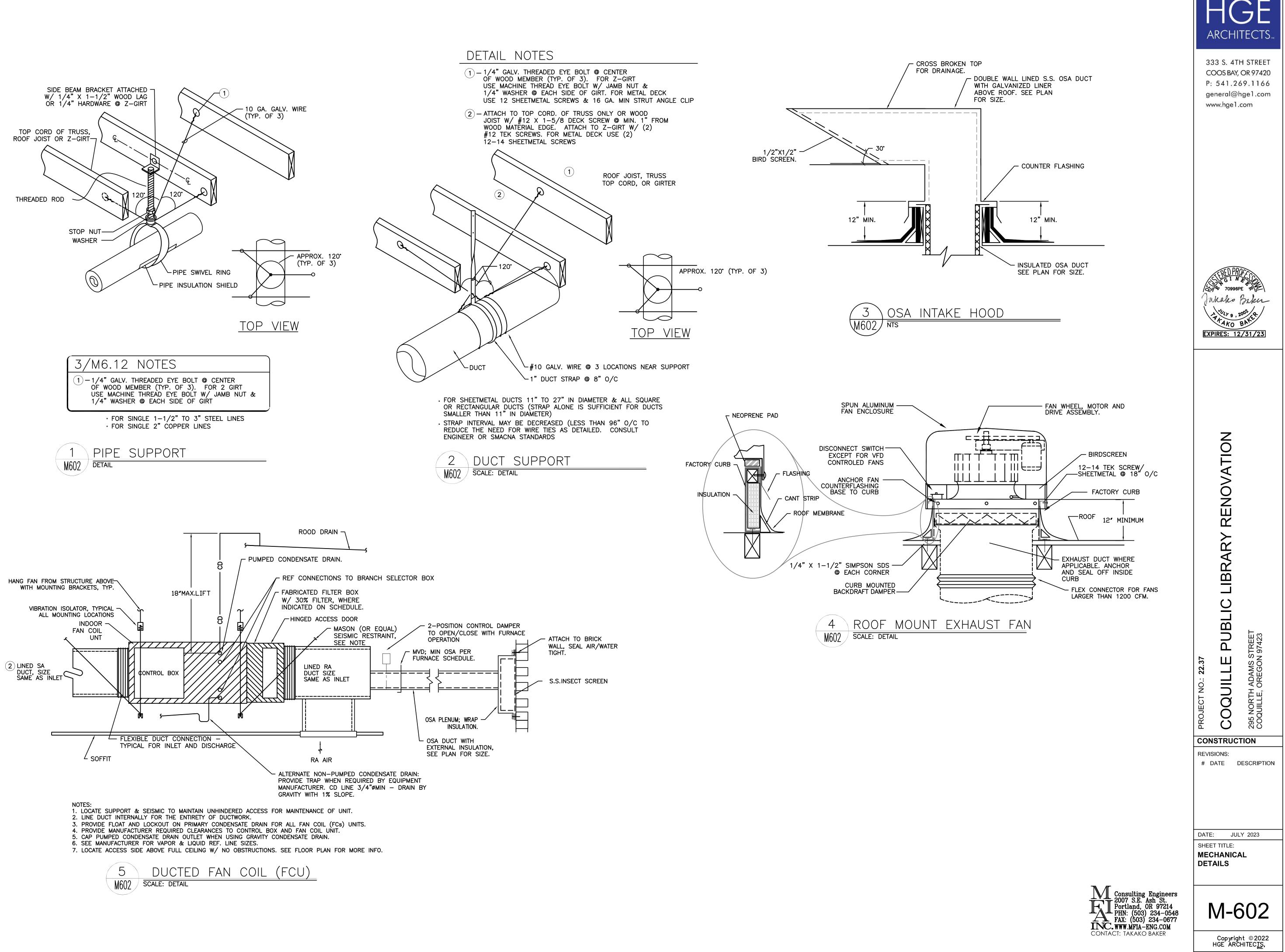
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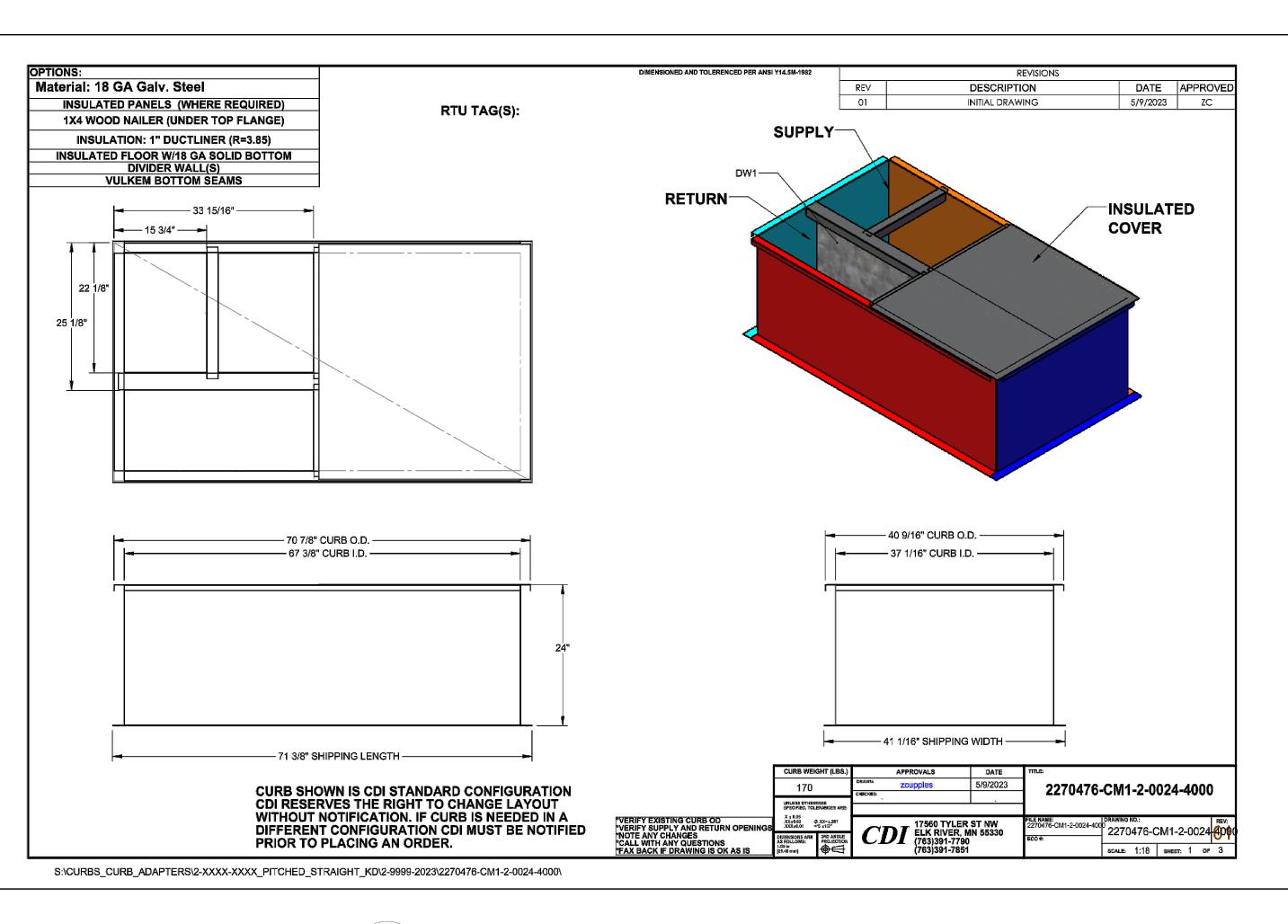




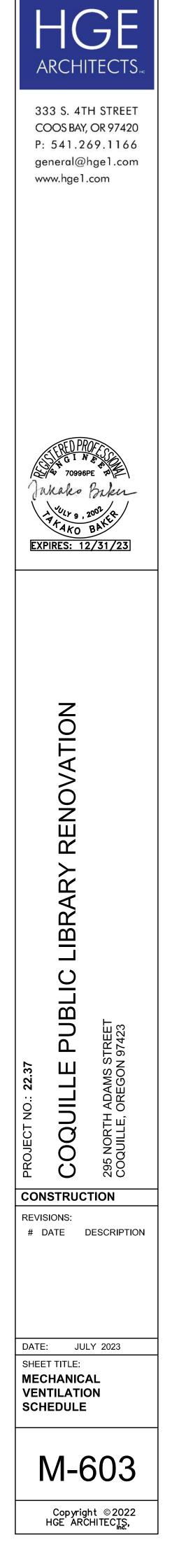
VENTILATION A	IK SCHED		0-1							a		-			
	Nation Mation Mate			Sonn Wanni Wa											
ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD	NUMBER OF	OUTSIDE AIR	OUTSIDE AIR	OUTSIDE AIR REQUIRED (CFM)		ZONE	SUPPLY AIR (CFM)	PRIMARY OSA		EXHAUST AIR (CFM)	Zone Ventilation	Corrected OSA	AIR SYSTEM
		(#/1000 SQ. FT.)		(CFM/P)	(CFM/SQ FT.)			(CFM)		FRACTION		,	Efficiency	CFM	
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp			Evz		
Collectionsns North	1350	10	14	5	0.12	232	1.0	232	950	0.24	718	0	1.00	232.00	RTU-1
TOTAL	1350		14			232		232 Vou	950 Vps	-	718	0	1.00 Ev	232	
					CORRECT	ED TOTAL OUT	DOOR	R AIR FL		232	CFM	Corrected C	SA Fraction	Zs =	0.24
			11.2												
VENTILATION A			0-2												
ROOM NUMBER	AREA (SQ. FT.)	OCCUPANT	NUMBER OF	OUTSIDE AIR	OUTSIDE AIR	OUTSIDE AIR		ZONE	SUPPLY	PRIMARY	RETURN	EXHAUST	Zone	Corrected	AIR
AND NAME	,	LOAD	OCCUPANTS			REQUIRED (CFM)		OSA	AIR (CFM)			AIR (CFM)	Ventilation	OSA CFM	SYSTEM
		(#/1000 SQ. FT.)		(CFM/P)	(CFM/SQ FT.)			(CFM)		FRACTION			Efficiency	Crivi	
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp			Evz		
Collectionsns North TOTAL	1350 1350	10	14 <b>14</b>	5	0.12	232 232	1.0	232 232	1200 1200	0.19	968 970	0	1.00 <b>1.00</b>	232.00 232	RTU-1
	1550					232		Vou	Vps		570	Ŭ	Ev		
					CORRECTE	ED TOTAL OUT	DOOF	R AIR FL	OW RATE	232	CFM	Corrected C	SA Fraction	Zs =	0.19
VENTILATION A	IR SCHED	JLE - RT	·U-3												
ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.)		OUTSIDE AIR REQUIREMENT (CFM/P)		OUTSIDE AIR REQUIRED (CFM)		ZONE OSA (CFM)	SUPPLY AIR (CFM)		AIR (CFM)	EXHAUST AIR (CFM)	Zone Ventilation Efficiency	Corrected OSA CFM	AIR SYSTEM
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp			Evz		
		<u></u>							-	-	1100			20.00	DTIA
PROGRAM SHOP 25	1078 1078	50	54 <b>54</b>	5	0.06	335 <b>335</b>	1.0	335 335	1100 1100	0.30	1100 <b>1100</b>	0	1.00 <b>1.00</b>	80.00 80	RTU-3
MARTE SEMIAL METAL METAL METAL								Vou	Vps				Ev		
					CORRECT	ED TOTAL OUT	DOOF	R AIR FL	OW RATE	335	CFM	Corrected C	SA Fraction	Zs =	0.07
VENTILATION A		JLE - OF	IP-1												
ROOM NUMBER AND NAME	AREA (SQ. FT.)	OCCUPANT LOAD	NUMBER OF	OUTSIDE AIR	OUTSIDE AIR	OUTSIDE AIR REQUIRED (CFM)		ZONE	SUPPLY AIR (CFM)			EXHAUST ) AIR (CFM)	Zone Ventilation	Corrected	AIR
		(#/1000 SQ. FT.)		(CFM/P)	(CFM/SQ FT.)			(CFM)		FRACTION			Efficiency	CFM	
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp			Evz		
CONFERENCE/MEETING	250	50	13	5	0.06	80	1.0	80	570	0.14	5780	0	1.00	80.00	RTU-1
TOTAL	250		13			80		80 Vou	570 Vps		950	0	1.00 Ev	80	
					CORRECT	ED TOTAL OUT	DOOF	R AIR FL	OW RATE	80	CFM	Corrected C	SA Fraction	Zs =	0.14
VENTILATION		OULE - AF	-1U-1												
ROOM NUMBER AND NAME	AREA (SQ. FI	.) OCCUPANT LOAD				OUTSIDE AIR T REQUIRED (CFN	1)	ZONE				N EXHAUST			AIR STEMS
		(#/1000 SQ. FT		(CFM/P)	(CFM/SQ FT.)			(CFM)		FRACTIO			Efficiency	CFM	

ROOM NUMBER	AREA (SQ. FT.)	OCCUPANT	NUMBER OF	OUTSIDE AIR	OUTSIDE AIR	OUTSIDE AIR		ZONE	SUPPLY	PRIMAR
AND NAME	n baala baala i	LOAD	OCCUPANTS	REQUIREMENT	REQUIREMENT	REQUIRED (CFM)		OSA	AIR (CFM)	OSA
		(#/1000 SQ. FT.)		(CFM/P)	(CFM/SQ FT.)			(CFM)		FRACTIO
	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp
2ND FLOOR CIRCULATION	262	0	0	0	0.06	16	1.0	16	300	0.05
STAFF BREAK	275	50	14	5	0.06	87	1.0	87	275	0.31
WC-23	49	0	0	0	0	0	1.0	0	50	0.00
WC-24	49	0	0	0	0	0	1.0	0	50	0.00
CUST/UTILITLY 22	109	0	0	0	0	0	1.0	0	50	0.00
TOTAL	744		14			102.22		102.22	725	
								Vou	Vps	
NOT NOT TOTAL STORY	N BRAN BRAN			504) 804)	CORRECTED TOTAL OUTDOOR AIR FLOW RATE				102	
sha kata tala kata ka	9 1999 1999 1	9 NOV 3		ACTUAL DESIGN OUTSI					E AIRFLOW RATE	
with with which that we	是 的复数 动力的	印. 新聞日 起	药出口 日均口	1211 1221						

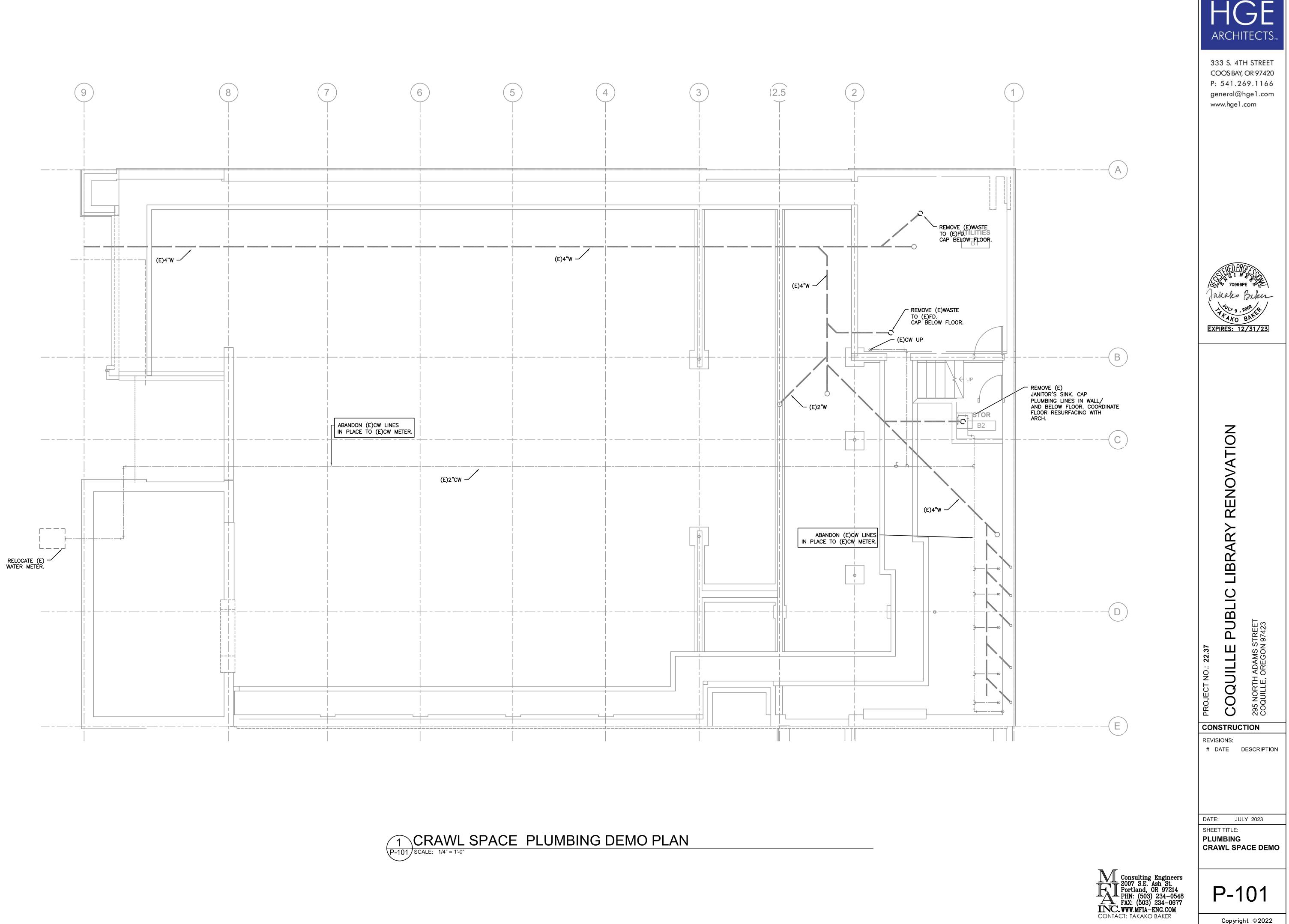
ROOM NUMBER	AREA (SQ. FT.)		NUMBER OF	OUTSIDE AIR		OUTSIDE AIR		ZONE	SUPPLY	PRIMARY			Zone	Corrected	AIR
AND NAME		LOAD	OCCUPANTS			REQUIRED (CFM)		OSA	AIR (CFM)			AIR (CFM)	Ventilation	OSA	SYSTEMS
		(#/1000 SQ. FT.)		(CFM/P)	(CFM/SQ FT.)			(CFM)		FRACTION			Efficiency	CFM	
ini lan an an e	Az		Pz	Rp	Ra	Vbz	Ez	Voz	Vpz	Zp			Evz		
2ND FLOOR CIRCULATION	262	0	0	0	0.06	16	1.0	16	300	0.05	300	0	1.00	16	AHU-1
STAFF BREAK	275	50	14	5	0.06	87	1.0	87	275	0.31	275	0	1.00	87	AHU-1
WC-23	49	0	0	0	0	0	1.0	0	50	0.00	0	75	1.00	0.00	AHU-1
WC-24	49	0	0	0	0	0	1.0	0	50	0.00	0	75	1.00	0.00	AHU-1
CUST/UTILITLY 22	109	0	0	0	0	0	1.0	0	50	0.00	0	75	1.00	0.00	AHU-1
TOTAL	744		14			102.22		102.22	725		575	225	1.00	102.22	
								Vou	Vps		0.0		Ev		
		2010 201												_	
						ED TOTAL OUT					CFM	Corrected	OSA Fraction	Zs =	0.14
	19 1926 Badd 1	8 1999 8	NER DED	2.0 3.0	ACT	UAL DESIGN O	UTSI	DE AIRFI	LOW RAT	225.00	CFM				0.31
VENTILATION A		JLE - AH	U-2												
								701/5			DETUDU		7	Querra da d	
ROOM NUMBER	AREA (SQ. FT.)	OCCUPANT	NUMBER OF					ZONE	SUPPLY	PRIMARY		EXHAUST	Zone	Corrected	AIR
	AREA (SQ. FT.)	OCCUPANT	NUMBER OF OCCUPANTS	REQUIREMENT	REQUIREMENT	OUTSIDE AIR REQUIRED (CFM)		OSA	SUPPLY AIR (CFM)	OSA	AIR (CFM)	EXHAUST AIR (CFM)	Ventilation	OSA	
ROOM NUMBER	AREA (SQ. FT.)	OCCUPANT	NUMBER OF OCCUPANTS								AIR (CFM)				AIR SYSTEMS
ROOM NUMBER	AREA (SQ. FT.)	OCCUPANT	NUMBER OF OCCUPANTS	REQUIREMENT	REQUIREMENT		Ez	OSA		OSA	AIR (CFM)		Ventilation	OSA	
ROOM NUMBER	AREA (SQ. FT.)	OCCUPANT	NUMBER OF OCCUPANTS	REQUIREMENT (CFM/P)	REQUIREMENT (CFM/SQ FT.)	REQUIRED (CFM)	<b>Ez</b> 1.0	OSA (CFM)	AIR (CFM)	OSA FRACTION	AIR (CFM)		Ventilation Efficiency	OSA	
ROOM NUMBER AND NAME	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77	OCCUPANT LOAD (#/1000 SQ. FT.)	NUMBER OF OCCUPANTS Pz	REQUIREMENT (CFM/P) <b>R</b> p	REQUIREMENT (CFM/SQ FT.) Ra	REQUIRED (CFM)		OSA (CFM) Voz	AIR (CFM)	OSA FRACTION <b>Z</b> p	AIR (CFM)	AIR (CFM)	Ventilation Efficiency Evz	OSA CFM	SYSTEMS
ROOM NUMBER AND NAME CIRCULATION 8	AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.)	NUMBER OF OCCUPANTS Pz	REQUIREMENT (CFM/P) Rp 0	REQUIREMENT (CFM/SQ FT.) Ra 0.06	REQUIRED (CFM) Vbz 34	1.0	OSA (CFM) Voz	AIR (CFM)	OSA FRACTION Zp 0.11	AIR (CFM) 325	AIR (CFM)	Ventilation Efficiency Evz 1.00	OSA CFM 33.72	SYSTEMS AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5	NUMBER OF OCCUPANTS Pz	REQUIREMENT (CFM/P) Rp 0 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06	REQUIRED (CFM) Vbz 34 10	1.0 1.0	OSA (CFM) <b>Voz</b> 34 10	AIR (CFM)	OSA FRACTION <b>Z</b> p 0.11 0.13	AIR (CFM) 325 75	AIR (CFM)	Ventilation Efficiency Evz 1.00 1.00	OSA CFM 33.72 9.62	SYSTEMS AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77 72 192	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5	NUMBER OF OCCUPANTS Pz	REQUIREMENT (CFM/P) Rp 0 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06 0.06	REQUIRED (CFM) <b>Vbz</b> 34 10 10	1.0 1.0 1.0	OSA (CFM) <b>Voz</b> 34 10 10	AIR (CFM)	OSA FRACTION 2p 0.11 0.13 0.13 0.12 0.13	AIR (CFM) 325 75 75 75 0	AIR (CFM) 0 0 0	Ventilation Efficiency Evz 1.00 1.00 1.00	OSA CFM 33.72 9.62 9.62	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11 WORKROOM 9	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77 77 72	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5 5 5	NUMBER OF OCCUPANTS Pz 0 1 1 1	REQUIREMENT (CFM/P) Rp 0 5 5 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06	REQUIRED (CFM) Vbz 34 10 10 9	1.0 1.0 1.0 1.0	OSA (CFM) Voz 34 10 10 9	AIR (CFM)	OSA FRACTION <b>Z</b> p 0.11 0.13 0.13 0.12	AIR (CFM) 325 75 75 75 75	AIR (CFM) 0 0 0 0 0 0	Ventilation Efficiency Evz 1.00 1.00 1.00 1.00	OSA CFM 33.72 9.62 9.62 9.32	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11 WORKROOM 9 WC 12	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77 72 192	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5 5 5 5 5	NUMBER OF OCCUPANTS Pz 0 1 1 1	REQUIREMENT (CFM/P) <b>Rp</b> 0 5 5 5 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06 0.06	REQUIRED (CFM) Vbz 34 10 10 9 17	1.0 1.0 1.0 1.0 1.0	OSA (CFM) Voz 34 10 10 9 17	AIR (CFM) Vpz 300 75 75 75 125	OSA FRACTION <b>Zp</b> 0.11 0.13 0.13 0.12 0.13	AIR (CFM) 325 75 75 75 0	AIR (CFM) 0 0 0 0 0 0 0 0	Ventilation Efficiency Evz 1.00 1.00 1.00 1.00 1.00	OSA CFM 33.72 9.62 9.62 9.32 16.52	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11 WORKROOM 9 WC 12 WC-13	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77 77 72 192 143	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5 5 5 5 5 5 5 5	NUMBER OF OCCUPANTS Pz 0 1 1 1 1 1 1 1 1	REQUIREMENT (CFM/P) <b>Rp</b> 0 5 5 5 5 5 5 5 5 5	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06 0.06 0.06 0.06	REQUIRED (CFM) Vbz 34 10 10 9 17 14	1.0 1.0 1.0 1.0 1.0 1.0	OSA (CFM) <b>Voz</b> 34 10 10 9 17 14	AIR (CFM) Vpz 300 75 75 75 125 125	OSA FRACTION <b>Zp</b> 0.11 0.13 0.13 0.12 0.13 0.11	AIR (CFM) 325 75 75 75 0 100	AIR (CFM) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ventilation Efficiency Evz 1.00 1.00 1.00 1.00 1.00 1.00 1.00	OSA CFM 33.72 9.62 9.62 9.32 16.52	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11 WORKROOM 9 WC 12 WC-13 WC-14	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77 77 72 192 143 39	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5 5 5 5 5 5 5 0	NUMBER OF OCCUPANTS Pz 0 1 1 1 1 1 1 1 1 0	REQUIREMENT (CFM/P) <b>Rp</b> 0 5 5 5 5 5 5 0	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.0	REQUIRED (CFM) Vbz 34 10 10 9 17 14 0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	OSA (CFM) <b>Voz</b> 34 10 10 9 17 14 0	AIR (CFM) Vpz 300 75 75 125 125 125 50	OSA FRACTION <b>Z</b> p 0.11 0.13 0.13 0.12 0.13 0.11 0.11 0.00	AIR (CFM) 325 75 75 75 0 100 0	AIR (CFM) 0 0 0 0 0 0 0 0 0 75	Ventilation Efficiency Evz 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	OSA CFM 33.72 9.62 9.62 9.32 16.52 13.58	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11 WORKROOM 9 WC 12 WC-13 WC-14	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77 77 72 192 143 39 39 39	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5 5 5 5 5 5 0 0 0	NUMBER OF OCCUPANTS Pz 0 1 1 1 1 1 1 1 1 0 0 0	REQUIREMENT (CFM/P) <b>Rp</b> 0 5 5 5 5 5 5 0 0 0 0	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.0	REQUIRED (CFM) Vbz 34 10 10 9 17 14 0 0 0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	OSA (CFM) Voz 34 10 10 9 17 14 0 0	AIR (CFM) Vpz 300 75 75 75 125 125 125 50 50	OSA FRACTION 2p 0.11 0.13 0.13 0.12 0.13 0.11 0.00 0.00	AIR (CFM) 325 75 75 75 0 100 0 0	AIR (CFM) 0 0 0 0 0 0 0 75 75	Ventilation Efficiency Evz 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	OSA CFM 33.72 9.62 9.62 9.32 16.52 13.58 0.00	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11 WORKROOM 9 WC 12 WC-13	AREA (SQ. FT.) AREA (SQ. FT.)	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5 5 5 5 5 5 5 0 0 0 0 0	NUMBER OF OCCUPANTS Pz 0 1 1 1 1 1 1 1 1 0 0 0 0 0	REQUIREMENT (CFM/P) <b>Rp</b> 0 5 5 5 5 5 5 0 0 0 0 0 0	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.0	REQUIRED (CFM) Vbz 34 10 10 9 17 14 0 0 0 0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	OSA (CFM) Voz 34 10 10 9 17 14 0 0 0 0	AIR (CFM) Vpz 300 75 75 75 125 125 50 50 50 50	OSA FRACTION 2p 0.11 0.13 0.13 0.12 0.13 0.12 0.13 0.11 0.00 0.00 0.00	AIR (CFM) 325 75 75 75 0 100 0 0 0	AIR (CFM) 0 0 0 0 0 0 0 0 0 75 75 75 75	Ventilation Efficiency Evz 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	OSA CFM 33.72 9.62 9.62 9.32 16.52 13.58 0.00 0.00	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11 WORKROOM 9 WC 12 WC-13 WC-14 JAN CLOSET 16	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77 72 192 143 39 39 41 21	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5 5 5 5 5 5 5 0 0 0 0 0	NUMBER OF OCCUPANTS Pz 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0	REQUIREMENT (CFM/P) <b>Rp</b> 0 5 5 5 5 5 5 0 0 0 0 0 0	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.0	REQUIRED (CFM) Vbz 34 10 10 9 17 14 0 0 0 0 0 0 0 0 0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	OSA (CFM) Voz 34 10 10 9 17 14 0 0 0 0	AIR (CFM) Vpz 300 75 75 75 125 125 50 50 50 0	OSA FRACTION 2p 0.11 0.13 0.13 0.12 0.13 0.12 0.13 0.11 0.00 0.00 0.00	AIR (CFM) 325 75 75 0 100 0 0 0 0 0 0 0	AIR (CFM) 0 0 0 0 0 0 0 75 75	Ventilation Efficiency Evz 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	OSA CFM 33.72 9.62 9.62 9.32 16.52 13.58 0.00 0.00 0.00	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2
ROOM NUMBER AND NAME CIRCULATION 8 LIBRARIAN OFFICE 10 CATALOGER 9.1 TEEN LIB OFFICE 10 DIRECTOR 11 WORKROOM 9 WC 12 WC-13 WC-14 JAN CLOSET 16	AREA (SQ. FT.) AREA (SQ. FT.) Az 562 77 72 192 143 39 39 41 21	OCCUPANT LOAD (#/1000 SQ. FT.) 0 5 5 5 5 5 5 5 5 0 0 0 0 0	NUMBER OF OCCUPANTS Pz 0 1 1 1 1 1 1 1 0 0 0 0 0 0 0	REQUIREMENT (CFM/P) <b>Rp</b> 0 5 5 5 5 5 5 0 0 0 0 0 0	REQUIREMENT (CFM/SQ FT.) Ra 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.0	REQUIRED (CFM) Vbz 34 10 10 9 17 14 0 0 0 0 0 0 0 0 0	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	OSA (CFM) Voz 34 10 10 9 17 14 0 0 0 0 0 9 2.38 Vou	AIR (CFM) Vpz 300 75 75 75 125 125 50 50 50 0 925 Vps	OSA FRACTION <b>Z</b> p 0.11 0.13 0.13 0.12 0.13 0.12 0.13 0.11 0.00 0.00 0.00 0.00	AIR (CFM) 325 75 75 0 100 0 0 0 0 0 0 0	AIR (CFM) 0 0 0 0 0 0 0 0 75 75	Ventilation Efficiency Evz 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	OSA CFM 33.72 9.62 9.62 9.32 16.52 13.58 0.00 0.00 0.00	AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2 AHU-2



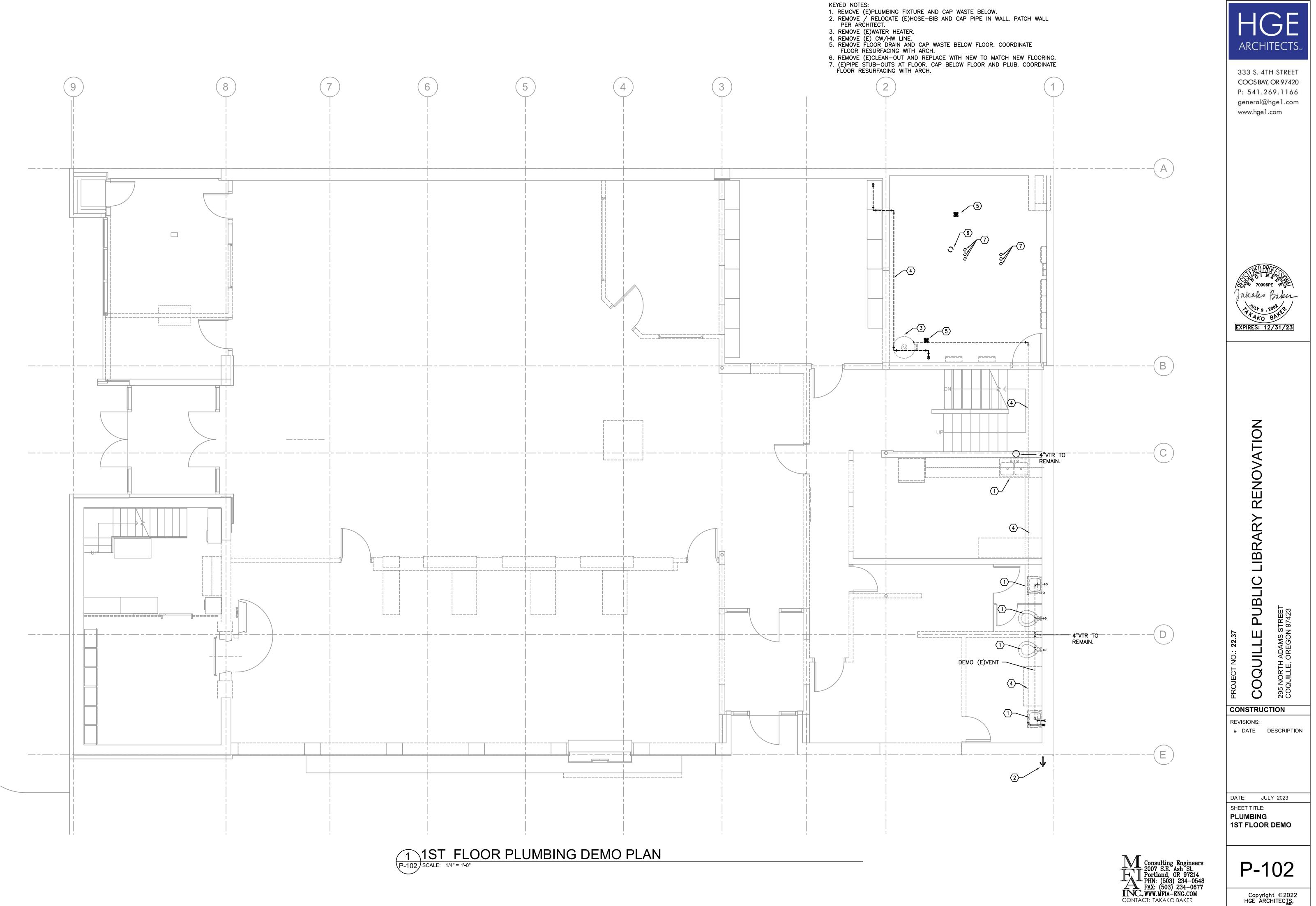
PLENUM CURB DETAIL M603 SCALE: DETAIL

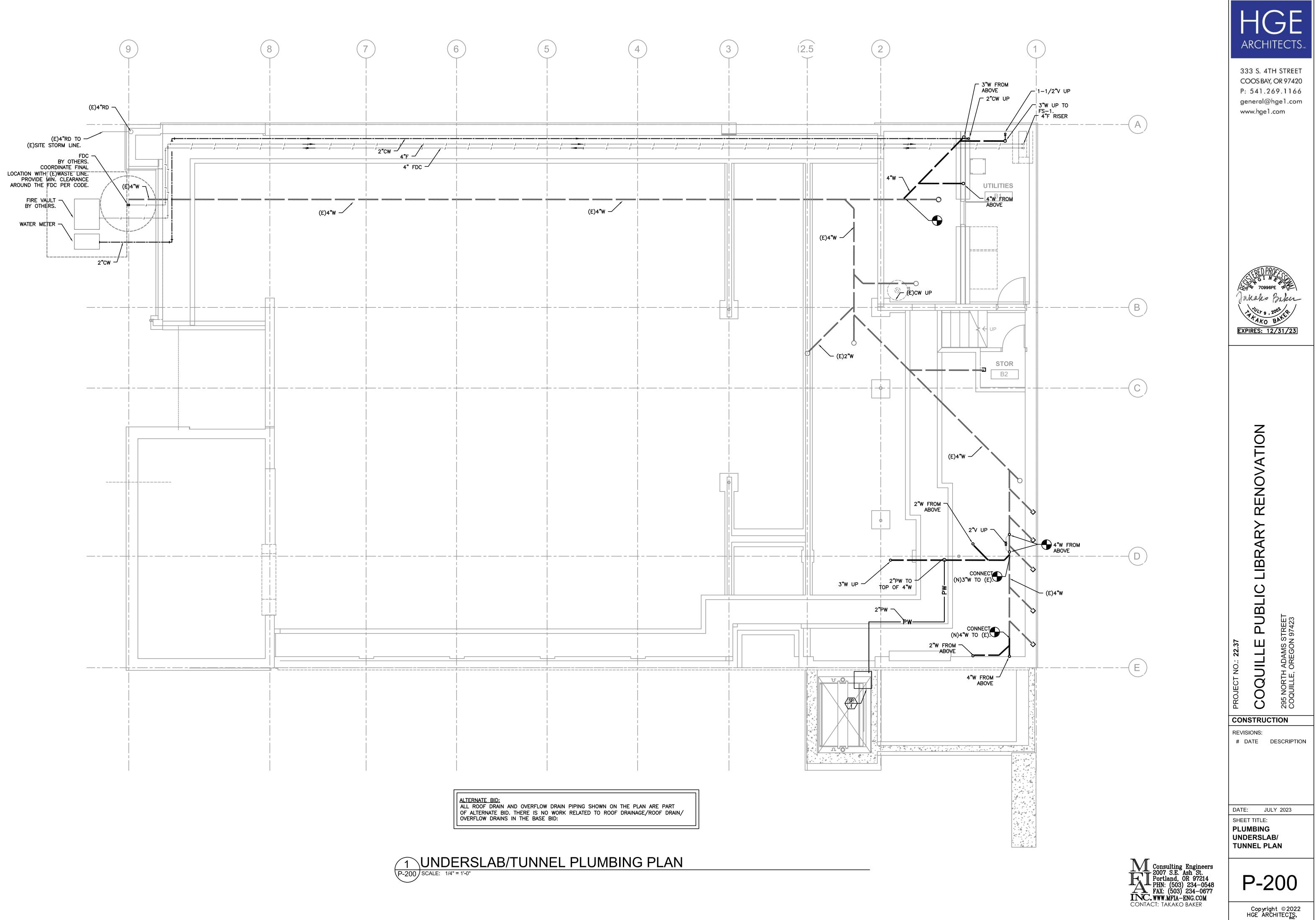


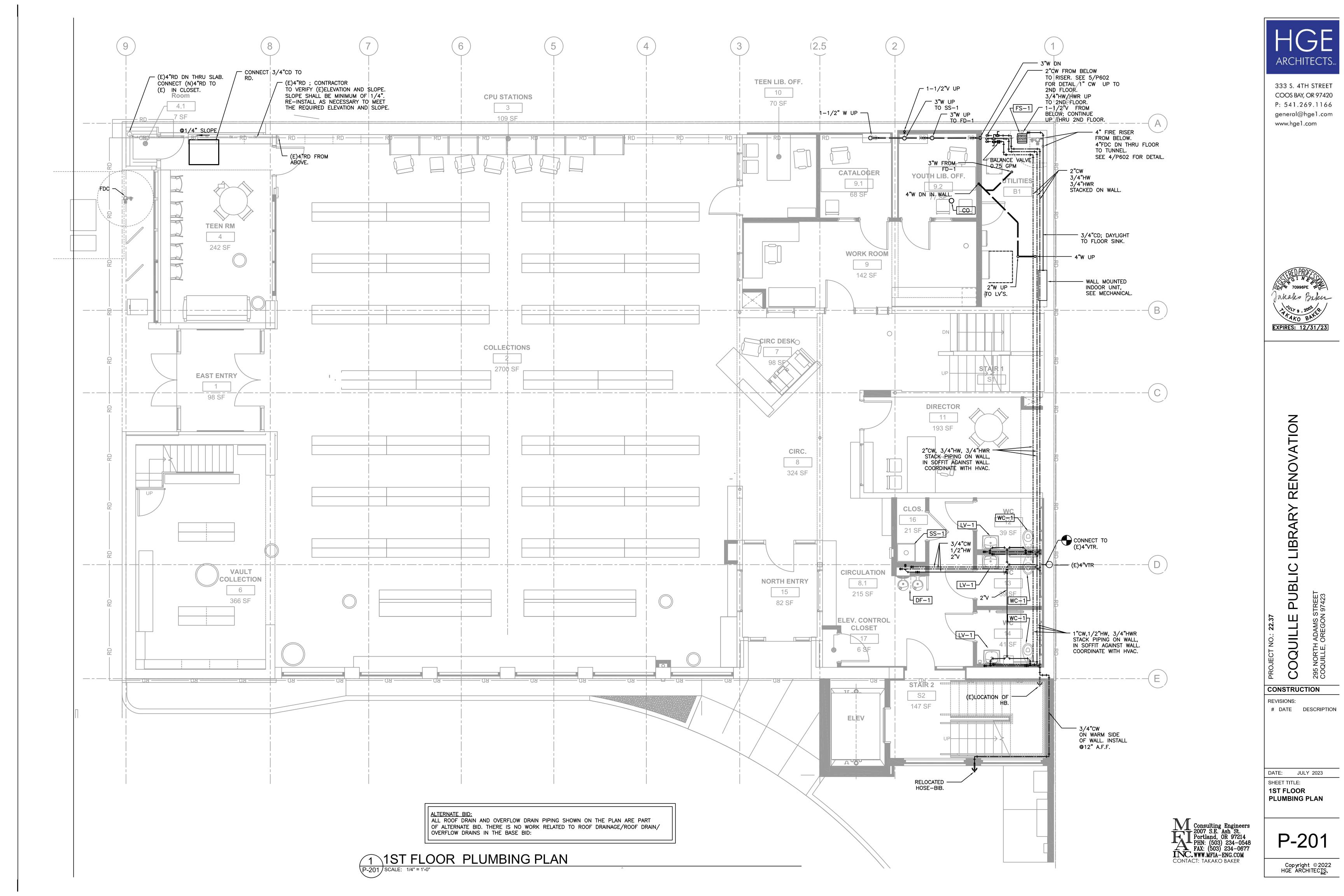


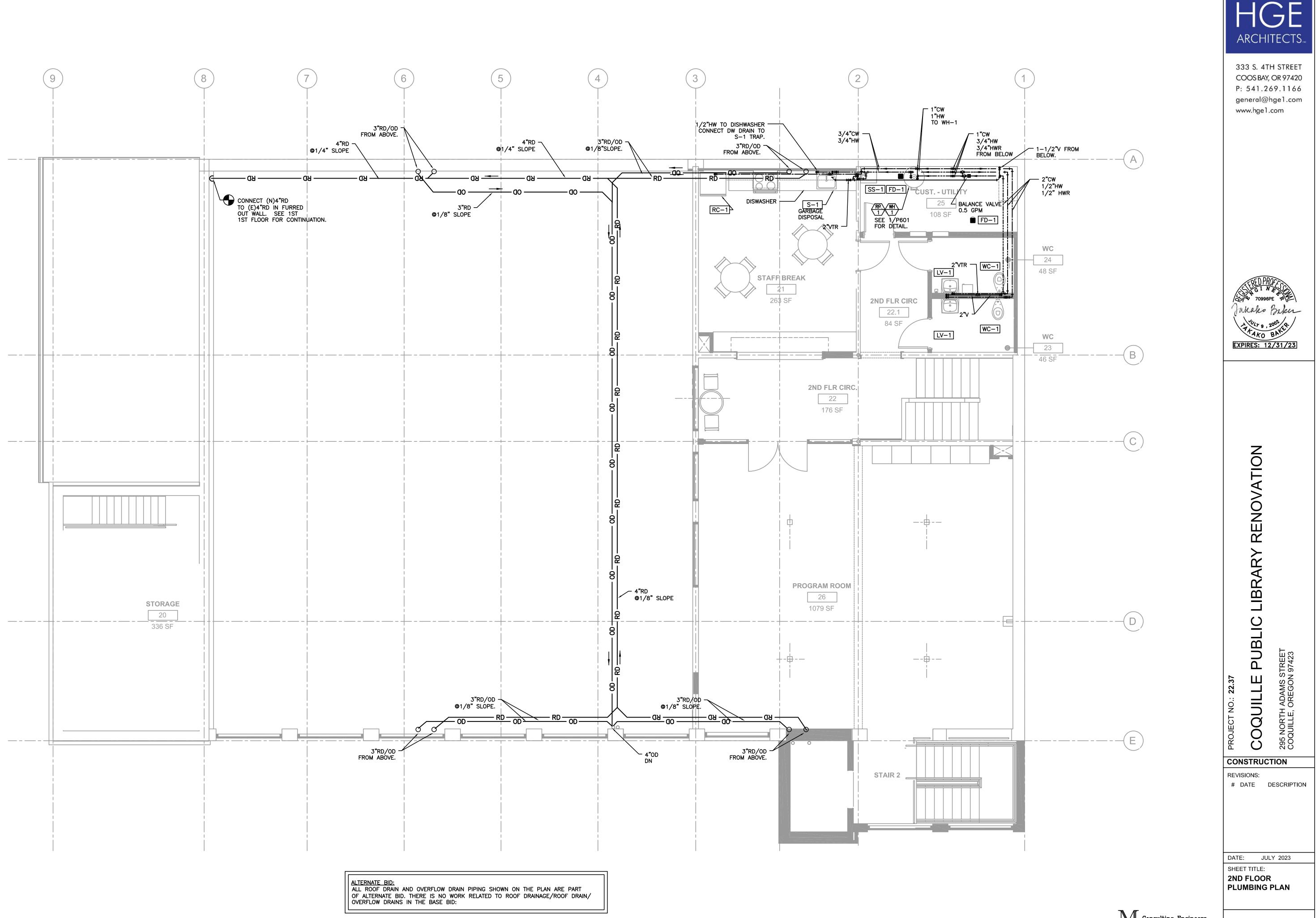








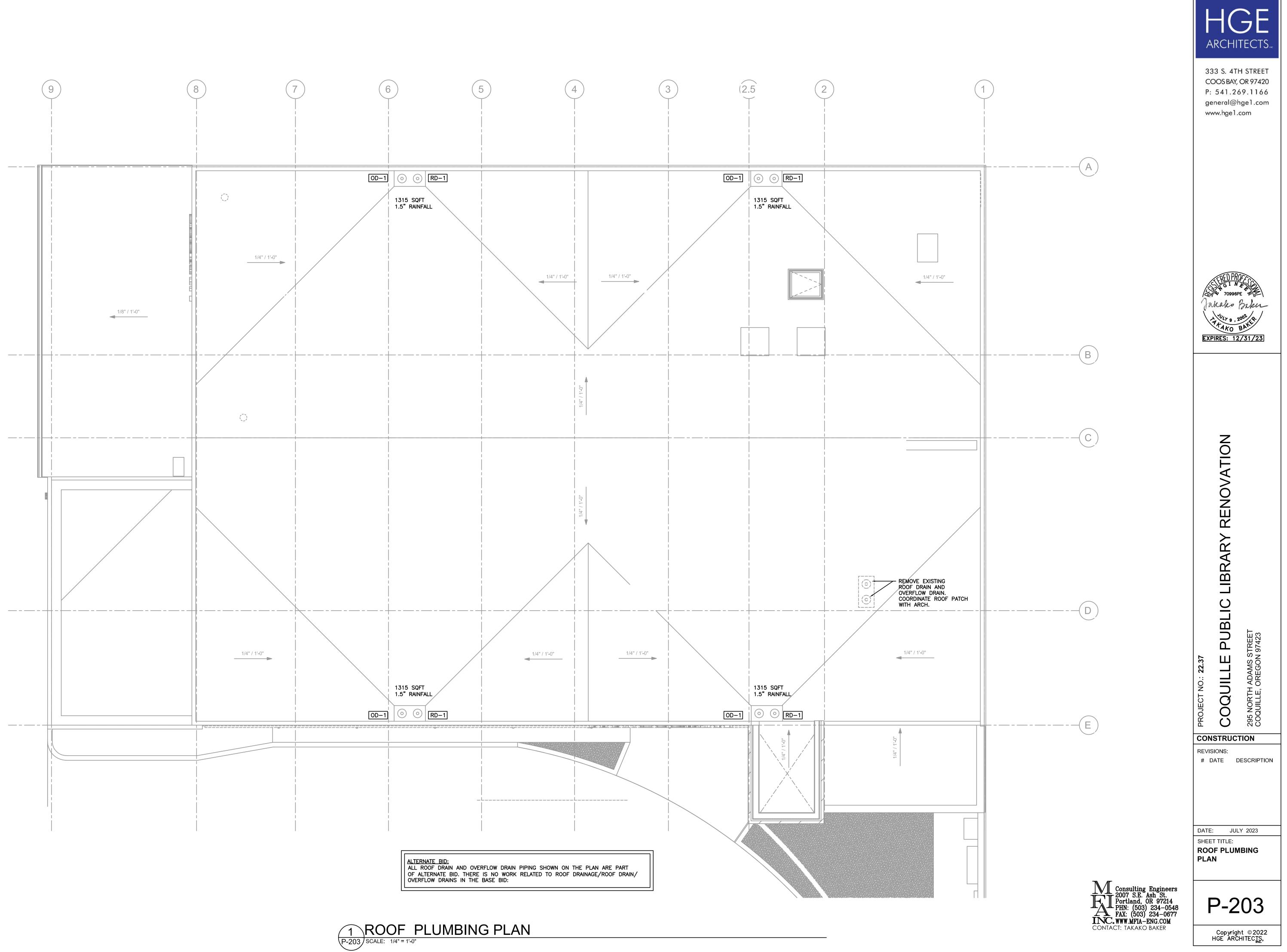




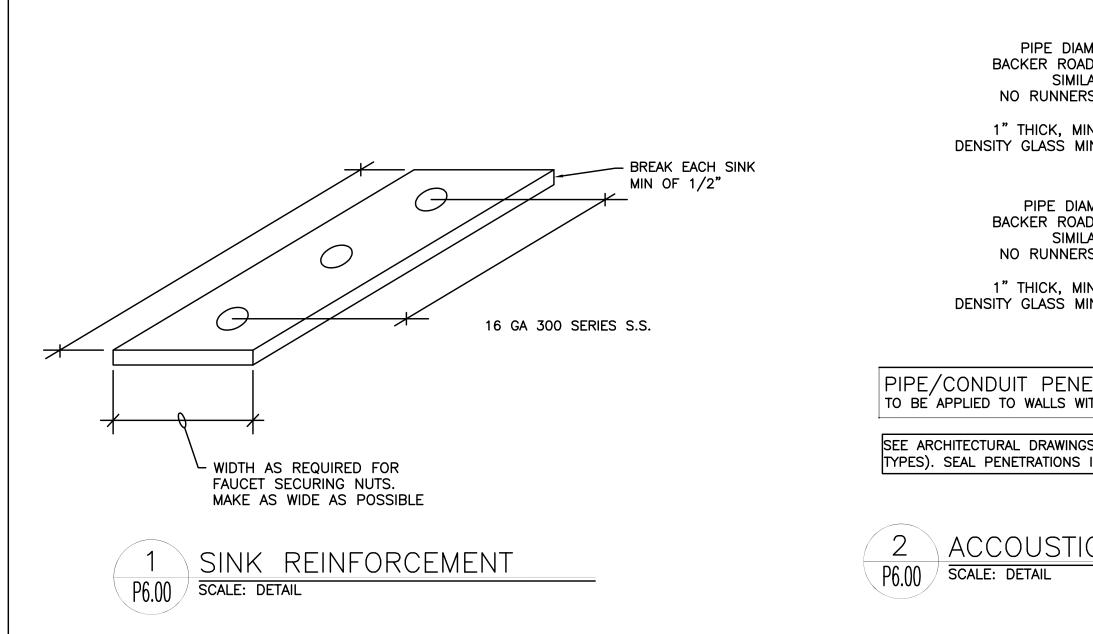
# 1 P-202 SCALE: 1/4" = 1'-0"



P-202

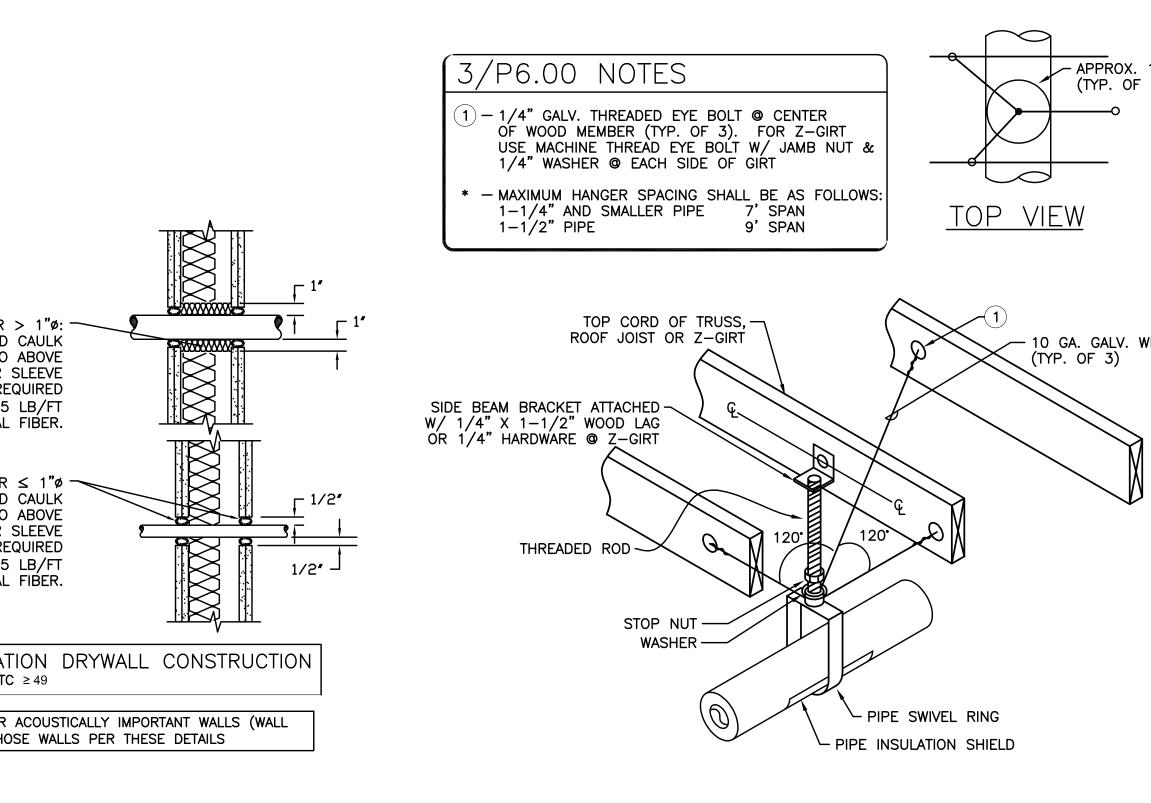


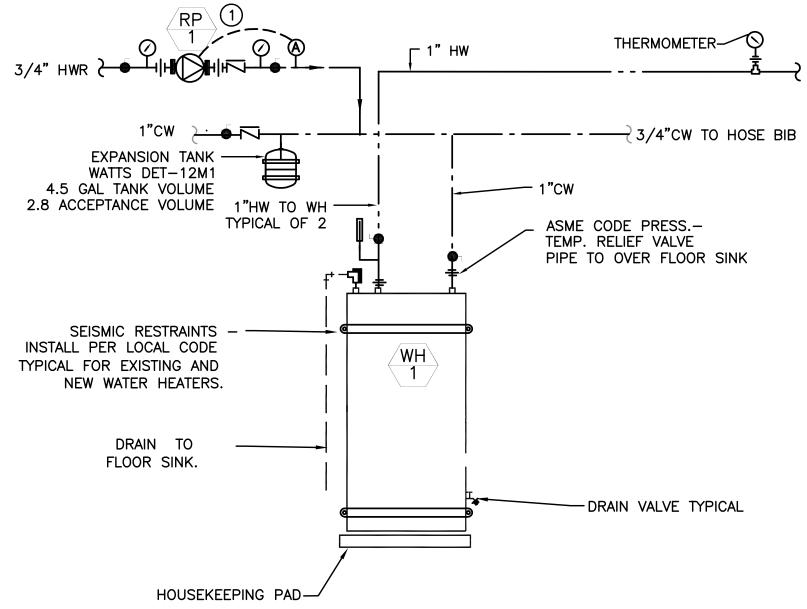
PLUMB	ING LEGEND	
AFF	ABOVE FINISHED FLOOR ARCHITECTURAL BELOW GRADE BRITISH THERMAL UNIT CAPACITY CAST IRON COMPARTMENT CONTINUATION CUBIC DRINKING FOUNTAIN DEIONIZED (WATER) DIAMETER ELEVATION ELECTRIC WATER COOLER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FINISH FLOOR FLANGE FOOT / FEET GAS GAUGE GALVANIZED GALLONS PER MINUTE GATE VALVE HORSEPOWER HOUR INVERT ELEVATION KILOWATT LAVATORY	
MAX		— GW—— GW— (GW) GREASE WASTE
X XX	EQUIPMENT MARK NUMBER	اراً، المناطقة BUTTERFLY VALVE
XXX	······ FIXTURE MARK	-Q-OR -Q- ··································
(E) 〈 <b>#</b> 〉	······································	→ S→ S→ S→ PIPE TURNED UP, PIPE TURNED DOW
	······ CONNECT TO EXISTING	OR - CHE WALVE
Т Т	······ CAP	BALANCING VALVE
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ł,	······ ELBOW	
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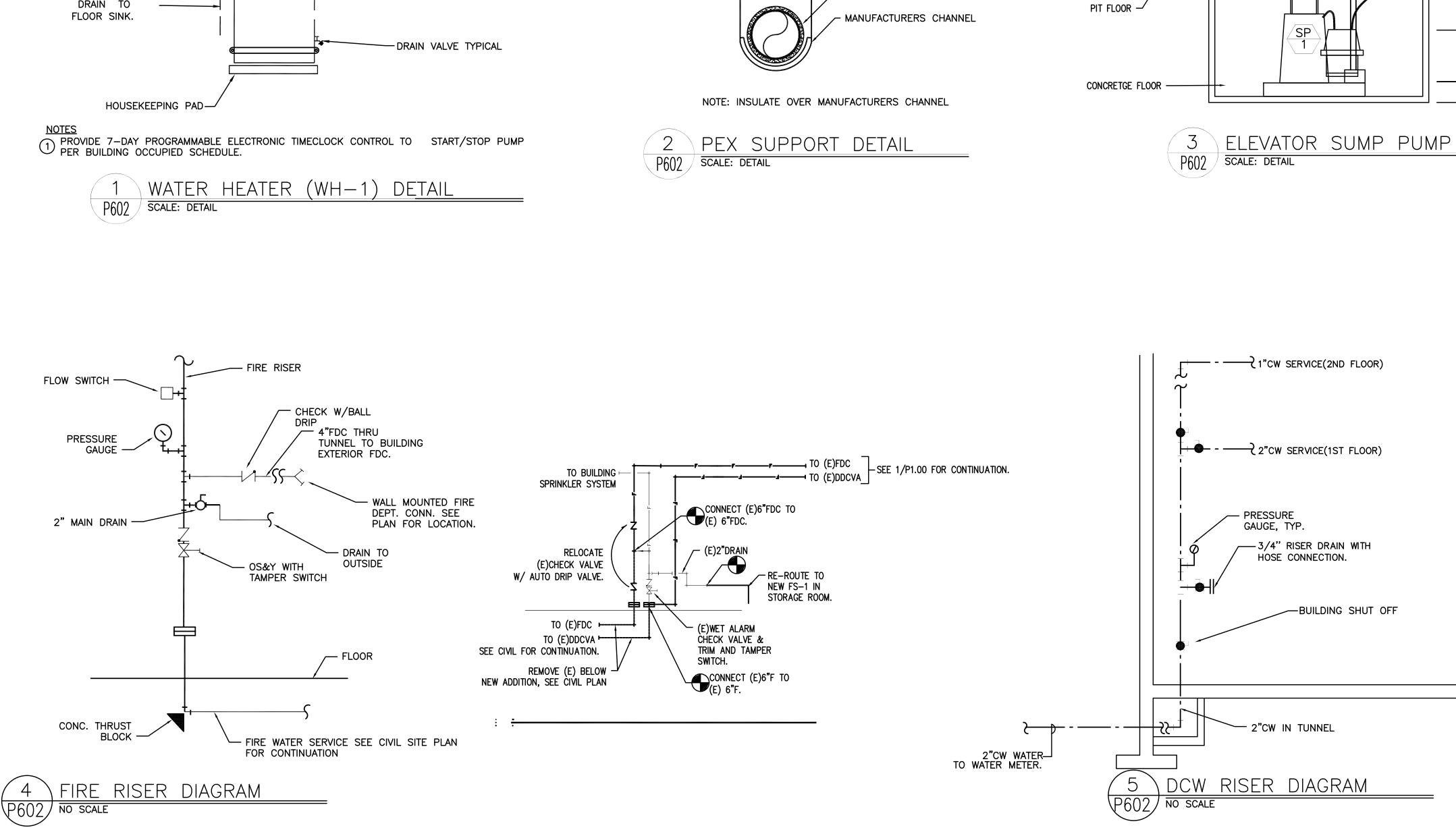
PLUMBING COI	i		i de la constanción d		- Electric Water He	eaters I	SUMP PL			HG
RK FIXTURE -1 WATER CLOSET	W         V           4"         2"	CW HW 1"	REMARKS FLOOR MOUNT, ADA, FLUSH VAL	LVE	MARK NUMBER		MARK			ARCHITEC
-1 LAVATORY 1- 1 SINK	-1/2" 1-1/2" 2" 1-1/2"		WALL MOUNT, SEE SPECS.	2			NUMBER SYSTEM	1 ELEVATOR		AKCHITLC
1 JANITOR'S SINK	2" 1-1/2" 3" 1-1/2"		W/GARBAGE DISPOSAL, NOTE 1, NOTE 1, 2	, <i>∠</i>	FUEL CAPACITY (GAL)	ELECTRIC 45	TYPE	SUMP		333 S. 4TH STR
FLOOR DRAIN FLOOR SINK	3" VL 3" VL		J.R. SMITH 2050, NOTE 3. CECO 906, NO GRATE, ENAMELE	FD CL 12812	KW	4.5 KW	FLOW RATE (GPM) HEAD (FT H2O)	50 15		COOSBAY, OR 97- P: 541.269.11
DRINKING FOUNTAIN		1/2"	DUAL HEIGHT/BOTTLE FILLER			30 208/1	MOTOR (HP)	1/2 HP		general@hge1.c
REFRIGERATOR CONNECTION     Image: Constraint of the second	*	1/2"	GUY GRAY BIM 875 CLEAN OUT		DESIGN WEIGHT (LBS)	750	POWER (V/PH)	120/1		www.hgel.com
PLAN FOR SIZE			CLEAN OUT		BASIS OF DESIGN: BRADFORD WHITE	LE 350S3-3				
OVIDE W/ WALL CLEAN-OUT BELC E 1/P6.00 FOR DETAIL. RFACE MEMBRANE CLAMPING STYL ISTALL PER FLOORING MANUFACTU	'LE FLOOR DRAIN JRER'S INSTALLA					DOMESTIC MARK NUMBER SERVICE TYPE CONTROLLED BY ARRANGEMENT FLOW RATE (GPM		C PUMPS RP 1 7 RECIRC CIRC UASTAT I-LINE 1.25		
			DOMESTIC WATER SERVIC		SANITARY WASTE SERVICE	HEAD (FT)		12		
TYPE			R WATER TOTAL TOTAL C RES FIXTURE WSFU FIXTUR		DRAINAGE TOTAL FIXTURE DFU	MOTOR HP POWER (V/PH)		WATTS 20/1		
		1	UNITS UNITS	S UNITS	UNITS	RPM	36	OORPM		FREDPROFEE
G FOUNTAIN / WATER COOLER (G SINK (GRINDER & DISHWASHER		1	0.5 0.5 0.5 3 3 2.25	0 2.25	0.5 0.5 2 2	DESIGN WEIGHT (	(LBS) e	S LBS		GINE TOGGER
DRY (SINGLE) SIN		5	1 5 3.75 3 6 4.5	3.75 4.5	1 5 3 6					Jukako Brki
TOR (ELEVATOR WASTE) TOR (INDIRECT WASTE)		1	0 0 0	0	100 100 1 2					TAKO BANKE
CLOSET (1.6 GPF TANK-GENERA	NL)	5	2.5 12.5 12.5	0	4 20					EXPIRES: 12/31/2
BB (FIRST ONE)		1	2.5 2.5 2.5 0	0	0					
	тот	AL 18	29.5 26	10.5	135.5					
			ter Demand 20 GPM	1	Waste Pipe Size 4"					
			WMain Size 1-1/4"							
			P6.00 NOTES	© CENTER	APPROX. 120° (TYP. OF 3)					OVATION
		(1) - 1 C U 1 * - N	I/4" GALV. THREADED EYE BOLT DF WOOD MEMBER (TYP. OF 3). JSE MACHINE THREAD EYE BOLT V I/4" WASHER @ EACH SIDE OF C MAXIMUM HANGER SPACING SHALL I-1/4" AND SMALLER PIPE 7	GIRT	(TYP. OF 3)					ARY RENOVATION
1"¢: CAULK ABOVE LEEVE UIRED LB/FT FIBER.		$ \begin{array}{c} 1 - 1 \\                                $	I/4" GALV. THREADED EYE BOLT DF WOOD MEMBER (TYP. OF 3). JSE MACHINE THREAD EYE BOLT I/4" WASHER @ EACH SIDE OF C MAXIMUM HANGER SPACING SHALL I-1/4" AND SMALLER PIPE 7	GIRT - BE AS FOLLOW 7' SPAN 9' SPAN	(TYP. OF 3)			/2" CW IN WALL		BLIC LIBRARY RENOVATI
ABOVE LEEVE UIRED LB/FT		$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET OF ATTACHED A BRACKET	GIRT - BE AS FOLLOW 7' SPAN 9' SPAN	(TYP. OF 3) (TYP. OF 3) (TYP. OF 3) (TYP. OF 3) (TYP. OF 3)			/2" CW IN WALL TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI - FLOOR DRAIN	TRACTOR.	DI: 22.37 ILLE PUBLIC LIBRARY RENOVATI ADAMS STREET
1"¢: AULK BOVE EEVE JIRED B/FT IBER. 1"¢ AULK BOVE EEVE JIRED B/FT IBER. DN DRYWALL CONSTRUCT	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	1/4" GALV. THREADED EYE BOLT DF WOOD MEMBER (TYP. OF 3). JSE MACHINE THREAD EYE BOLT V 1/4" WASHER @ EACH SIDE OF O MAXIMUM HANGER SPACING SHALL 1-1/4" AND SMALLER PIPE 7 1-1/2" PIPE 9 TOP CORD OF TRUSS, ROOF JOIST OR Z-GIRT M BRACKET ATTACHED X 1-1/2" WOOD LAG HARDWARE @ Z-GIRT THREADED ROD	GIRT - BE AS FOLLOW 7' SPAN 9' SPAN	(TYP. OF 3) TOP VIEW 10 GA. GALV. WIRE (TYP. OF 3) (TYP. OF 3)			- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	PROJECT NO.: 22.37 COQUILLE PUBLIC LIBRARY RENOVATI
1"¢: AULK BOVE EEVE IIRED BJ/FT BER. 1"¢ AULK BOVE EEVE IIRED BJ/FT BER. DN DRYWALL CONSTRUCT 49	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET OF ATTACHED A BRACKET	GIRT DE AS FOLLOW 7' SPAN 9' SPAN 120' 12'	(TYP. OF 3) TOP VIEW 10 GA. GALV. WIRE (TYP. OF 3) (TYP. OF 3)	MIN. 12		- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	DI: 22.37 ILLE PUBLIC LIBRARY RENOVATI
1"¢: AULK OVE EEVE RED 3/FT BER. 1"¢ AULK OVE EEVE RED 3/FT BER. N DRYWALL CONSTRUCT 49 OUSTICALLY IMPORTANT WALLS (WAL	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET ATTACHED A BRACKET OF ATTACHED A BRACKET	GIRT BE AS FOLLOW 7' SPAN 9' SPAN 120' 12' 120' 12'	(TYP. OF 3) TOP VIEW 10 GA. GALV. WIRE (TYP. OF 3) (TYP. OF 3)	MIN. 12		- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	PROJECT NO.: 22.37 PROJECT NO.: 22.37 COQUILLE PUBLIC LIBRARY RENOVATI 295 NORTH ADAMS STREET 295 NORTH ADAMS STREET 295 NORTH ADAMS STREET
1"#: AULK BOVE EEVE JIRED B/FT BOVE EEVE JIRED B/FT BER. DN DRYWALL CONSTRUCT COUSTICALLY IMPORTANT WALLS (WAL E WALLS PER THESE DETAILS	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED MARDWARE @ Z-GIRT THREADED ROD THREADED ROD THREADED ROD TOP NUT WASHER 3 NON-SEI	GIRT BE AS FOLLOW 7' SPAN	TOP VIEW TOP VIEW (TYP. OF 3) (TYP. OF 3)	MIN. 12	- TRAP PR	- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	PROJECT NO.: 22.37 PROJECT NO.: 22.37 COULLE PUBLIC LIBRARY RENOVATI 295 NORTH ADAMS STREET SECONDELLE PUBLIC LIBRARY RENOVATI MERIZIONE
1"¢: AULK BOVE LEEVE UIRED B/FT TIBER. AULK BOVE LEEVE UIRED B/FT TIBER.	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED A BRACKET ATTACHED THREADED ROD THREADED ROD THREADED ROD THREADED ROD TOP NUT WASHER THREADED ROD THREADED ROD TOP NUT WASHER THREADED ROD THREADED ROD	GIRT BE AS FOLLOW 7' SPAN	(TYP. OF 3) TOP VIEW TOP VIEW TOP OF 3) TOP OF 3)	4	- TRAP PR	- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	PROJECT NO.: 22.37 PROJECT NO.: 22.37 CONSTRUCTION REVISIONS: # DATE DESCRIPTION BEAR REVISIONS: # DATE DESCRIPTION BEAR DESCRIPTION # DATE DESCRIPTION BEAR DE
1"¢: AULK BOVE EEVE JIRED B/FT BER. 1"¢ AULK BOVE EEVE JIRED B/FT IBER. DN DRYWALL CONSTRUCT 49	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED MARDWARE @ Z-GIRT THREADED ROD THREADED ROD THREADED ROD TOP NUT WASHER 3 NON-SEI	GIRT BE AS FOLLOW 7' SPAN	(TYP. OF 3) TOP VIEW TOP VIEW TOP OF 3) TOP OF 3)	4	- TRAP PR	- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	DATE: JULY 2023 SHEET TITLE:
1"¢: AULK BOVE EEVE IRED 3/FT BER. 1"¢ AULK OVE EVE IRED 3/FT BER. 1"¢ AULK OVE EVE IRED 3/FT BER. 1"¢ AULK OVE EVE IRED 3/FT BER. 1"¢ AULK OVE EVE IRED 3/FT BER. 1"¢ AULK OVE EVE IRED 3/FT BER. 1"¢ AULK OVE EVE IRED 3/FT BER. 10° AULK OVE EVE IRED 3/FT BER. 10° AULK OVE EVE IRED 3/FT BER. 10° AULK OVE EVE IRED 3/FT BER. 10° AULK OVE EVE IRED 3/FT BER. 10° AULK A	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED MARDWARE @ Z-GIRT THREADED ROD THREADED ROD THREADED ROD TOP NUT WASHER 3 NON-SEI	GIRT BE AS FOLLOW 7' SPAN	(TYP. OF 3) TOP VIEW TOP VIEW TOP OF 3) TOP OF 3)	4	- TRAP PR	- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	ILTONONATI         BROJECT NO.: 23.37         PROJECT NO.: 23.37         CONSTRUCTION:         # DATE:         DATE:         JULY 2023         SHEET TITLE:         PLUMBING LEGE
1"¢: ULK OVE EVE RED /FT SER. 1"¢ ULK OVE EVE RED /FT SER. N DRYWALL CONSTRUCT 49 DUSTICALLY IMPORTANT WALLS (WAL WALLS PER THESE DETAILS	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED MARDWARE @ Z-GIRT THREADED ROD THREADED ROD THREADED ROD TOP NUT WASHER 3 NON-SEI	GIRT BE AS FOLLOW 7' SPAN	(TYP. OF 3) TOP VIEW TOP VIEW TOP OF 3) TOP OF 3)	4	- TRAP PR	- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	DATE: JULY 2023 BREET TITLE: PLUMBING LEGE
1"¢: ULK OVE EVE RED JFT BER. 1"¢ ULK OVE EVE RED JFT BER. N DRYWALL CONSTRUCT 49 DUSTICALLY IMPORTANT WALLS (WAL WALLS PER THESE DETAILS	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED MARDWARE @ Z-GIRT THREADED ROD THREADED ROD THREADED ROD TOP NUT WASHER 3 NON-SEI	GIRT BE AS FOLLOW 7' SPAN	(TYP. OF 3) TOP VIEW TOP VIEW TOP OF 3) TOP OF 3)	4	- TRAP PR	- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	DATE: JULY 2023 SHEET TITLE: PLUMBING LEGEE SCHEDULES AND
1"#: AULK BOVE EEVE JIRED B/FT BOVE EEVE JIRED B/FT BER. DN DRYWALL CONSTRUCT COUSTICALLY IMPORTANT WALLS (WAL E WALLS PER THESE DETAILS	1/2"	$ \begin{array}{c} 1 - 1 \\                                $	A BRACKET ATTACHED MARDWARE @ Z-GIRT THREADED ROD THREADED ROD THREADED ROD TOP NUT WASHER 3 NON-SEI	GIRT BE AS FOLLOW 7' SPAN	(TYP. OF 3) TOP VIEW TOP VIEW TOP OF 3) TOP OF 3)	4	- TRAP PR	- TRAP PRIMER VALVE NOTE: LOCATION TO DETERMINED BY CON PROVIDE ACCESS PAI	TRACTOR. NEL.	DATE: JULY 2023 SHEET TITLE: PLUMBING LEGEE SCHEDULES AND

		SCHEDULE				
MARK FIXTURE W			ELECTRIC WATER HE/	AIERS	SUMP PUMP	
WC-1         WATER CLOSET         4"         2           LV-1         LAVATORY         1-1/2"         1-1	2" 1" 1/2" 1/2" 1/2	FLOOR MOUNT, ADA, FLUSH VALVE/2"WALL MOUNT, SEE SPECS.			MARK SP NUMBER 1	ARCHITEC
S-1 SINK 2" 1-1	1/2" 1/2" 1/2	/2" W/GARBAGE DISPOSAL, NOTE 1, 2	FUEL	ELECTRIC	SYSTEM ELEVATOR	
		/2" NOTE 1, 2 J.R. SMITH 2050, NOTE 3.	CAPACITY (GAL)	45	TYPESUMPFLOW RATE (GPM)50	333 S. 4TH STI
	/L /L	CECO 906, NO GRATE, ENAMELED CI 12X12		4.5 KW	HEAD (FT H20) 15	COOSBAY, OR 9 P: 541.269.1
	1/2" 1/2"	DUAL HEIGHT/BOTTLE FILLER	RECOVERY CAP. @ 100F TR (GPH)           ELECTRICAL (V/PH)	30 208/1	MOTOR (HP) 1/2 HP POWER (V/PH) 120/1	general@hge1.
	1/2" 	GUY GRAY BIM 875 CLEAN OUT	DESIGN WEIGHT (LBS)	750	POWER (V/PH) 120/1	www.hgel.com
E PLAN FOR SIZE ES:	I	ı	BASIS OF DESIGN: BRADFORD WHITE	LE 350S3-3		
PROVIDE W/ WALL CLEAN-OUT BELOW EACH SEE 1/P6.00 FOR DETAIL.	DRAIN, PER FLOC STALLATION GUIDE.	DORING MANUFACTURER. EQUAL MIFAB OR WATTS APP E.	ROVED.	DOMESTIC MARK NUMBER SERVICE TYPE CONTROLLED BY ARRANGEMENT	HW RECIRC PUMPS RP 1 PHW RECIRC CIRC AQUASTAT IN-LINE	
		DOMESTIC WATER SERVICE	SANITARY WASTE SERVICE	FLOW RATE (GPM)	1.25	
RE TYPE	NILIN	MBER WATER TOTAL TOTAL CW TOTAL HW	DRAINAGE TOTAL	HEAD (FT) MOTOR HP	12 90 WATTS	
		XTURES FIXTURE WSFU FIXTURE FIXTURE	FIXTURE DFU	POWER (V/PH)	120/1	
KING FOUNTAIN / WATER COOLER (GENERAL	USE)	UNITS         UNITS         UNITS           1         0.5         0.5         0.5         0	UNITS 0.5 0.5	RPM DESIGN WEIGHT (LBS	3600RPM 5) 6 LBS	TEREDPROFESSO
HEN SINK (GRINDER & DISHWASHER)		1332.252.255153.753.75	2 2 1 5			4 70996PE
BASIN		2 3 6 4.5 4.5	3 6			Jukako Bik
PTOR (ELEVATOR WASTE) PTOR (INDIRECT WASTE)		1 0 0 0 0 2	100 100 1 2			A TULY 9, 2002 PTAKO BAYE
R CLOSET (1.6 GPF TANK-GENERAL) BIBB (FIRST ONE)		52.512.512.5012.52.52.50	4 20			EXPIRES: 12/31
	TOTAL	0 0	0			
	TOTAL 1	18 29.5 26 10.5	135.5			
		Water Demand 20 GPM CW Main Size 1-1/4"	Waste Pipe Size 4"			
> 1"ø:		<ul> <li>– 1/4" GALV. THREADED EYE BOLT @ CENTER OF WOOD MEMBER (TYP. OF 3). FOR Z-GIRT USE MACHINE THREAD EYE BOLT W/ JAMB NUT ( 1/4" WASHER @ EACH SIDE OF GIRT</li> <li>– MAXIMUM HANGER SPACING SHALL BE AS FOLLOW 1–1/4" AND SMALLER PIPE 7' SPAN 1–1/2" PIPE 9' SPAN</li> </ul>				ARY RE
SLEEVE QUIRED LB/FT FIBER. CAULK ABOVE SLEEVE QUIRED LB/FT FIBER. 1/2"	SIDE E W/ 1/ OR 1/	THREADED ROD	10 GA. GALV. WIRE (TYP. OF 3)		1/2" CW IN WALL TRAP PRIMER VALVE NOTE: LOCATION TO BE DETERMINED BY CONTRACTOR. PROVIDE ACCESS PANEL. FLOOR DRAIN	JECT NO.: 22.37 DQUILLE PUBLIC LIBR/ NORTH ADAMS STREET
LEEVE UIRED _B/FT FIBER. CAULK ABOVE LEEVE UIRED _B/FT FIBER. 1/2"	SIDE F W/ 1/ OR 1/	ROOF JOIST OR Z-GIRT BEAM BRACKET ATTACHED /4" X 1-1/2" WOOD LAG /4" HARDWARE @ Z-GIRT	(TYP. OF 3)		TRAP PRIMER VALVE NOTE: LOCATION TO BE DETERMINED BY CONTRACTOR. PROVIDE ACCESS PANEL.	D.: 22.37 ILLE PUBLIC LI Adams street
LEEVE UIRED B/FT CAULK BOVE LEEVE UIRED B/FT TIBER. ON DRYWALL CONSTRUCTION	SIDE F W/ 1/ OR 1/	ROOF JOIST OR Z-GIRT BEAM BRACKET ATTACHED /4" X 1-1/2" WOOD LAG /4" HARDWARE @ Z-GIRT THREADED ROD 120' STOP NUT	(TYP. OF 3)	MIN. 12" –	TRAP PRIMER VALVE NOTE: LOCATION TO BE DETERMINED BY CONTRACTOR. PROVIDE ACCESS PANEL. FLOOR DRAIN FINISHED FLOOR	PROJECT NO.: 22.37 COQUILLE PUBLIC LI 295 NORTH ADAMS STREET
EEVE UIRED B/FT TIBER. CAULK BOVE LEEVE UIRED B/FT TIBER. COUSTICALLY IMPORTANT WALLS (WALL	SIDE E W/ 1/ OR 1/	ROOF JOIST OR Z-GIRT	(TYP. OF 3)		TRAP PRIMER VALVE NOTE: LOCATION TO BE DETERMINED BY CONTRACTOR. PROVIDE ACCESS PANEL. FLOOR DRAIN FINISHED FLOOR	PROJECT NO.: 22.37 PROJECT NO.: 22.37 CONSTRUCTION 295 NORTH ADAMS STREET 295 NORTH ADAMS STREET
LEEVE UIRED LB/FT FIBER. CAULK ABOVE LEEVE UIRED LB/FT FIBER. ON DRYWALL CONSTRUCTION ≥ 49 COUSTICALLY IMPORTANT WALLS (WALL	SIDE F W/ 1/ OR 1/	ROOF JOIST OR Z-GIRT	(TYP. OF 3)	MIN. 12" –	TRAP PRIMER VALVE NOTE: LOCATION TO BE DETERMINED BY CONTRACTOR. PROVIDE ACCESS PANEL. FLOOR DRAIN FINISHED FLOOR	PROJECT NO.: 22.37 PROJECT NO.: 22.37 CONSTRUCTION 295 NORTH ADAMS STREET STREET
SLEEVE QUIRED LB/FT FIBER. CAULK ABOVE SLEEVE QUIRED LB/FT FIBER. 1/2"	SIDE H W/ 1/ OR 1/	ROOF JOIST OR Z-GIRT	PIPE SWIVEL RING E INSULATION SHIELD	MIN. 12" - 4 P6.00	TRAP PRIMER VALVE NOTE: LOCATION TO BE DETERMINED BY CONTRACTOR. PROVIDE ACCESS PANEL. FLOOR DRAIN FINISHED FLOOR	DATE: JULY 202
LEEVE UIRED LB/FT FIBER. ≤ 1"¢ CAULK ABOVE LEEVE UIRED LB/FT FIBER. ON DRYWALL CONSTRUCTION ≥ 49 ACOUSTICALLY IMPORTANT WALLS (WALL E WALLS PER THESE DETAILS	SIDE H W/ 1/ OR 1/	ROOF JOIST OR Z-GIRT	PIPE SWIVEL RING E INSULATION SHIELD	4	TRAP PRIMER VALVE NOTE: LOCATION TO BE DETERMINED BY CONTRACTOR. PROVIDE ACCESS PANEL. FINISHED FLOOR FINISHED FLOOR	PROJECT NO.: 22.37 PROJECT NO.: 22.37 CONSTRUCTION REVISIONS: # DATE DESCR





WATER HEATER (WH-1) DETAIL P602 SCALE: DETAIL

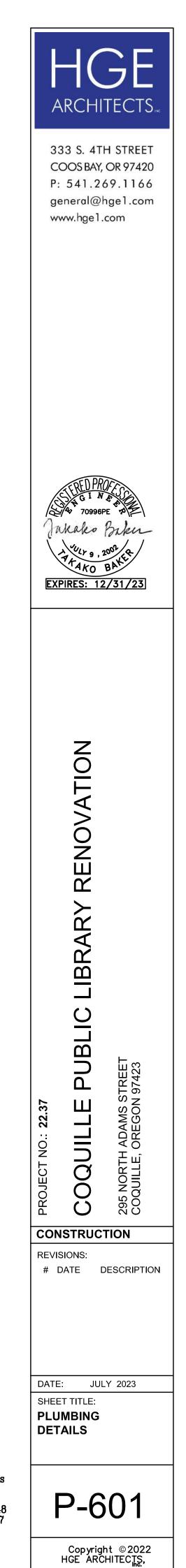


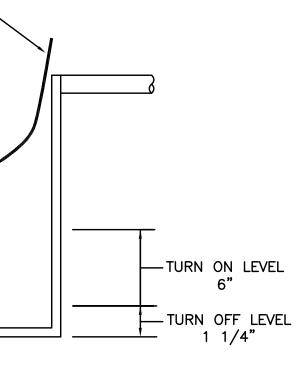
SUPPORT CHANNEL

- PEX PIPE

- DOUBLE CHANNEL NUT

✓ PIPE HANGER PER SPECS





~ 2" PUMPED

ELEC. CONNECTION PER

-

MANUF. RECOMMENDATIONS -

CHECK VALVE

GATE VALVE –

WASTE



YMBOLS	ONELINE DIAGRAM	NOTES	SYMBOLS	LIGHT FIXTURES	NOTES
	MOLDED CASE CIRCUIT BREAKER			WHEN ADDED TO LIGHT FIXTURE SYMBOL-	
uu –	TRANSFORMER		1	INDICATES WALL OR BRACKET MOUNTED LIGHT FIXTURE SURFACE OR PENDANT MOUNTED LIGHT FIXTURE OUTLET .	
m			FD_2.	(NUMBER INDICATES CIRCUIT , CAPITAL LETTER	
_\%_			l O a	INDICATES FIXTURE TYPE , LOWER CASE LETTER INDICATES SWITCHING CONTROL , TYPICAL FOR ALL	
<u> </u>	CURRENT TRANSFORMER(S)			LIGHT FIXTURES)	
	METER, TYPE AS NOTED		Ø	RECESSED CEILING LIGHT FIXTURE	
÷	GROUND		<b></b> →	RECESSED WALL WASHER , UNSHADED SIDE INDICATES	
• <sub>N</sub>	NEUTRAL BUS				
2	MOTOR WITH MOTOR NUMBER (SEE EQUIPMENT SCHEDULE)			FLUORESCENT LIGHT FIXTURE	
<b>1</b>	COMBINATION FIRE SMOKE DAMPER	2			
$\langle \mathbf{x} \mathbf{x} \rangle$	EQUIPMENT NUMBER (SEE EQUIPMENT SCHEDULE)	·	<b>₩ ₩</b>	SINGLE FACE EXIT SIGN WITH NUMBER OF DIRECTIONAL ARROWS AS SHOWN , CEILING MOUNTED . SOLID QUADRANT INDICATES FACE.	
	NON-FUSED DISCONNECT SWITCH		SYMBOLS	SWITCHES	NOTES
Ъ			\$	SINGLE POLE LIGHT SWITCH	+ 46"
	EQUIPMENT MANUFACTURERS RECOMMENDATIONS UNO.) COMBINATION MOTOR STARTER / FUSED DISCONNECT		↓ ↓ \$ <sub>3</sub>	THREE WAY LIGHT SWITCH	+ 46"
	SWITCH		\$M		+ 46"
	SUB-DISTRIBUTION PANELBOARD OR SWITCHBOARD				+ 46
	BRANCH CIRCUIT PANELBOARD		<b>W</b> c <b>W</b> w	OCCUPANCY SENSOR - C=CEILING W=WALL MOUNTED	
	MISCELLANEOUS PANEL AS NOTED			PHOTOELECTRIC SWITCH	
			SYMBOLS	SECURITY	NOTES
T	TRANSFORMER			SECURITY CAMERA. PROVIDE J-BOX WITH CAT 6 CABLE	$\langle 1 \rangle$
YMBOLS	RACEWAYS	NOTES	) ©	ELECTRONICALLY CONTROLLED LOCK	
	BRANCH CIRCUIT INSTALLED CONCEALED FROM FINISH		●	DOOR POSITION SWITCH	
H	SPACES . PROVIDE GROUND CONDUCTOR AS INDICATED		M N	MOTION DETECTOR (OMNI DIRECTIONAL)	
	IN PANEL SCHEDULE . GROUND CONDUCTOR NOT INCLUDED IN HASH MARK INDICATION .				+ 44"
./	BRANCH CIRCUIT INSTALLED IN OR BELOW FLOOR .				+ 44"
	PROVIDE GROUND CONDUCTOR AS INDICATED IN PANEL SCHEDULE, GROUND CONDUCTOR NOT INCLUDED IN				1 ''
	HASH MARK INDICATION .		SYMBOLS	AUDIO / VISUAL	NOTES
	BRANCH CIRCUIT HOME RUN TO PANEL , HASH MARKS		S	CEILING SPEAKER	
HH 1 A-	INDICATES NUMBER OF CONDUCTORS . PROVIDE GROUND CONDUCTOR AS INDICATED IN PANEL		HS HS	WALL MOUNTED SPEAKER	+ 80''
	SCHEDULE . GROUND CONDUCTOR NOT INCLUDED IN		HSA	WALL MOUNTED SPEAKER HORN	+ 80"
_	HASH MARK INDICATION .				+ 18"
	LOW VOLTAGE EMPTY CONDUIT WITH PULL STRING - ${}^{3}_{4}$ " UNO			INTERCOM REQUEST STATION (SPEAKER & PUSH BUTTON)	
PB	PULL BOX , 6" x 6" x 4" UNLESS NOTED OTHERWISE			INTERCOT REQUEST STATION (SPEARER & PUSH BUTTON)	+ 44
J	JUNCTION BOX , 4" SQUARE UNLESS OTHERWISE NOTED		SYMBOLS	FIRE ALARM	NOTES
	4" CONDUIT SLEEVE WITH BUSHINGS AT BOTH ENDS .				+ 44"
3	LOCATE AT 6" ABOVE ACCESSIBLE CEILING .				
•	FIRESTOP WITH UL APPROVED SYSTEM .				+ 80" AFTB
. <u> </u>	CONDUIT STUB-OUT, CAP & MARK WITH APPROVED MARKER			VISUAL STROBE ALARM	+ 80" AFTB
-	CONDUIT, DOWN			PHOTOELECTRIC SMOKE DETECTOR (CEILING NOUNTED UNO)	
				IONIZATION SMOKE DETECTOR (CEILING MOUNTED UNO)	
YMBOLS	RECEPTACLES	NOTES	ן 🖳	MAGNETIC DOOR HOLDER	
	WHEN ADDED TO A SYMBOL , INDICATES OUTLET		H	HEAT DETECTOR (CEILING MOUNTED, 135° UNO)	
٠	MOUNTED WITH BOTTOM OF OUTLET AT 2" ABOVE COUNTER TOP OR BACK SPLASH UNO.		SYMBOLS	ABBREVIATIONS	NOTES
0	DUPLEX CONVENIENCE OUTLET	+ 18"			NUIES
•	GFI DUPLEX CONVENIENCE OUTLET	+ 18"			
Ŏ	DUPLEX OUTLET CONNECTED TO EMERGENCY CIRCUIT	+ 18"		AMPERE	
•		+ 18"	c	CONDUIT	
•	SINGLE PHASE SPECIAL PURPOSE OUTLETS, AS NOTED	+ 18" UNO	EC	EMPTY CONDUIT (WITH PULL-IN LINE)	
8	THREE PHASE SPECIAL PURPOSE OUTLETS, AS NOTED		ELEC		
	FLUSH FLOOR OUTLET AS SHOWN		FAAP	FIRE ALARM ANNUNCIATOR PANEL	
	I LUUT FLOUR OUTLET AS SHOWN			FIRE ALARM CONTROL PANEL	
YMBOLS	TELEPHONE / DATA	NOTES	G, GND	GROUND	
	WHEN ADDED TO SYMBOL , INDICATES OUTLET MOUNTED		GEN	GENERATOR	
٠	WITH BOTTOM OF OUTLET AT 2" ABOVE COUNTER TOP OR		GFI	GROUND FAULT CIRCUIT INTERRUPTER TYPE	
<b>₹</b> 2	BACKSPLASH UNO TELE/DATA, PROVIDE CABLES AS SHOWN	+ 18"	HP	HORSEPOWER	
	W ADDED TO SYMBOL INDICATES WALL MOUNTED	X	İG	ISOLATED GROUND	
 ∎		X	MECH	MECHANICAL	
	FLOOR OUTLET WITH CABLES AS SHOWN , TELEPHONE TERMINAL BOARD , 8" HIGH (WIDTH AS SHOWN) . 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND		MFGR	MANUFACTURER	
	SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND		NEC	NATIONAL ELECTRIC CODE	
	WIRELESS ACCESS PORT. PROVIDE (1) CATGA CABLES	$\langle \hat{1} \rangle$	NL	NIGHT LIGHT	24 HOUR 'C
$\gamma \tilde{\mathbf{x}}$		-	0FCI	OWNER FURNISHED CONTRACTOR INSTALLED	
			0F01	OWNER FURNISHED OWNER INSTALLED	
			PB	PULL BOX	
• • -				PHASE	
NO <sup>-</sup>	1E9			PANEL	
1. ALL	SYMBOLS MAY NOT APPLY DIRECTLY TO THIS JOB.		PWR	POWER	
		=	SYS	SYSTEM	
2. ALL	MOUNTING HEIGHTS SHOWN ARE TO CENTERLINE OF DEVIC	Ε.			
3. ALL	L MOUNTING HEIGHTS ARE TYPICAL ON PLANS,		Ť		
			TTB	TELEPHONE TERMINAL BOARD	
KΕ`	TED NOTES		TYP	TYPICAL	
			UNO	UNLESS NOTED OTHERWISE	
· · · · ·	ROVIDE I'' CONDUIT FROM OUTLET BOX TO ACCESSIBLE LC BOVE CEILING, UNLESS NOTED OTHERWISE, TERMINATE CO		×	VOLT	
	BOVE CEILING, UNLESS NOTED OTHERWISE. TERMINATE CON BLUE INSULATED BOX CONNECTORS AND LABEL SYSTEM, SE		٧P	VANDAL PROOF	L
SI	PECIFICATIONS FOR ADDITIONAL INFORMATION . ROUTE CA	T6 or 6a	ω	WATT	

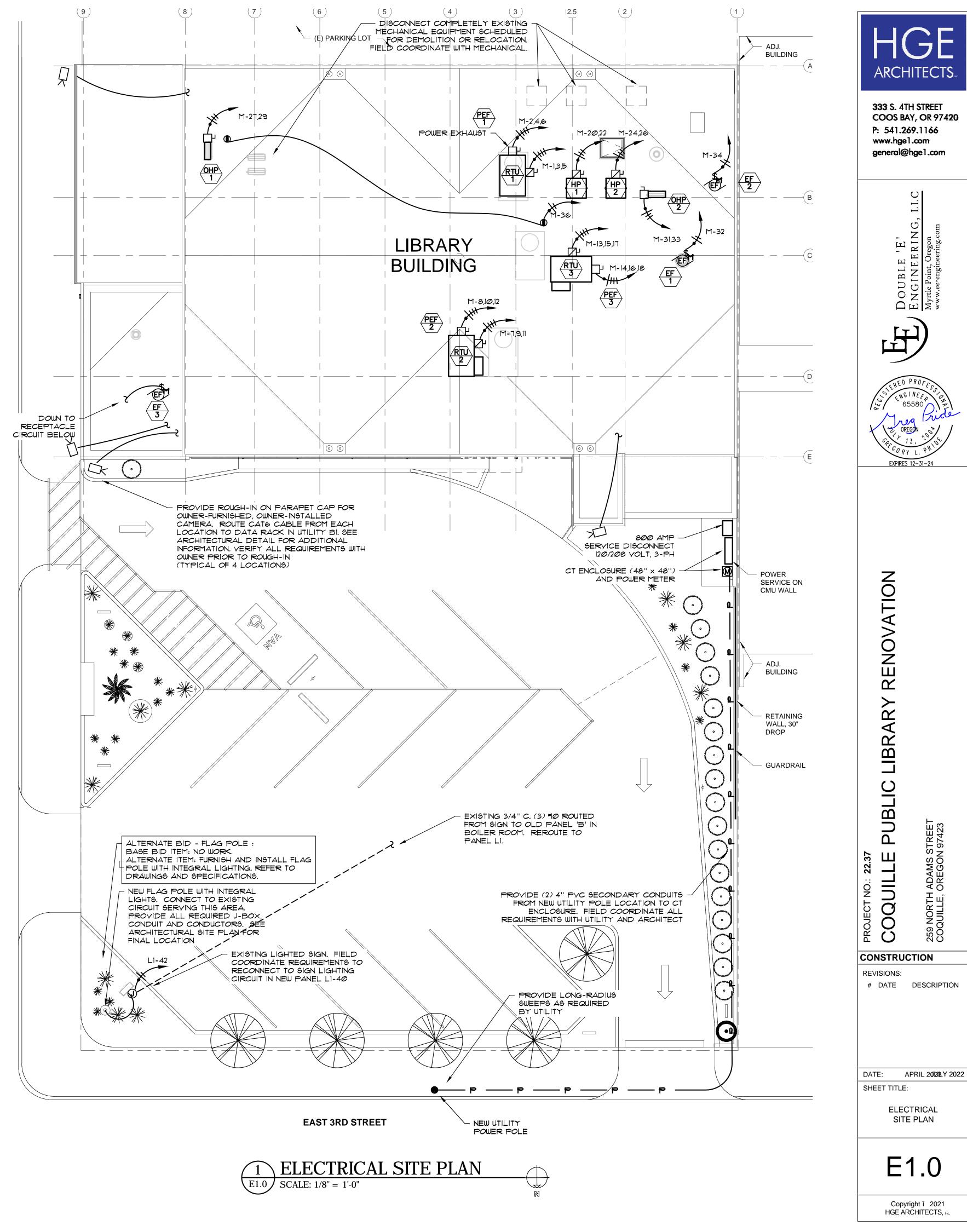
# PROJECT NOTES

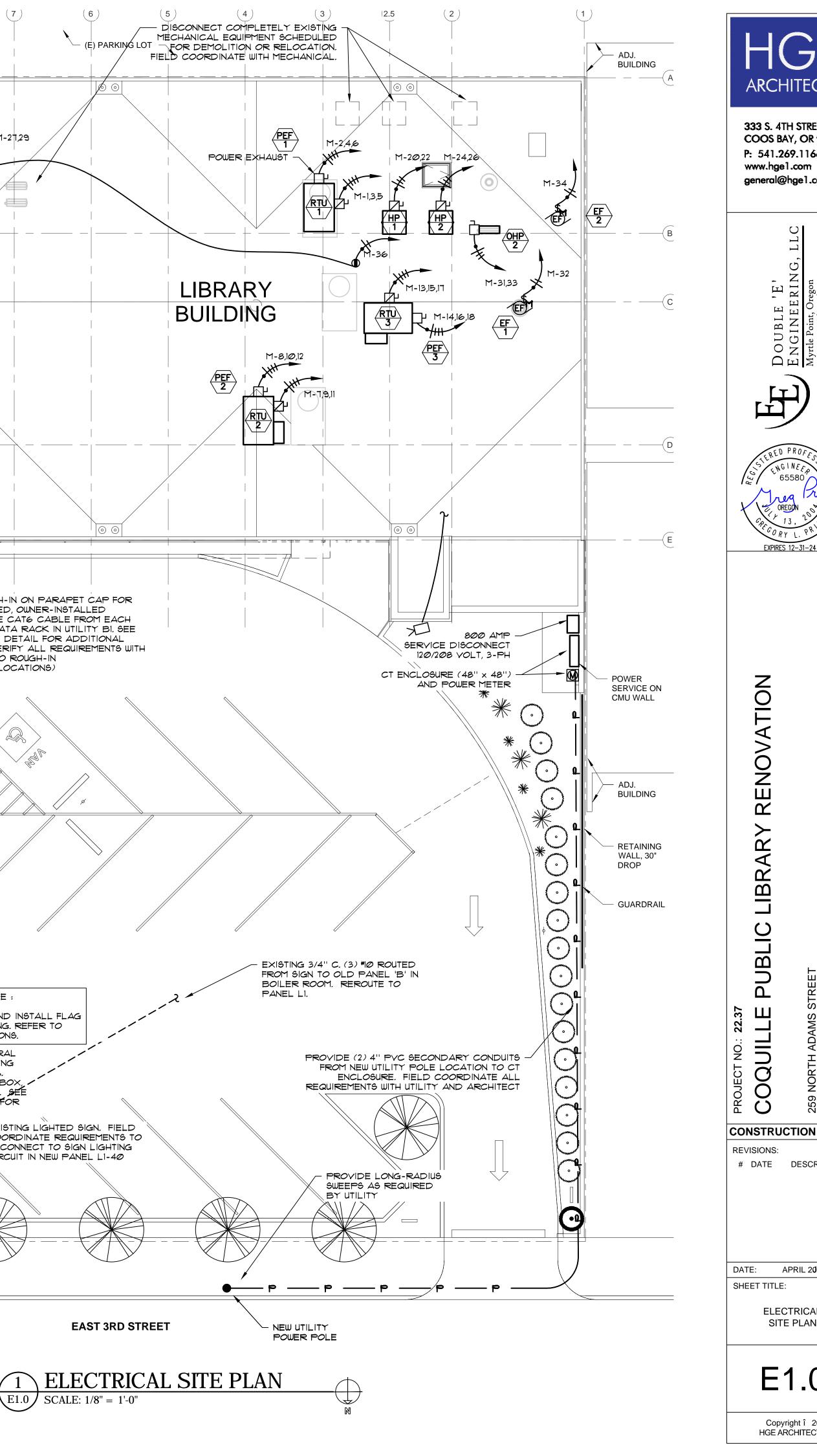
1. ALTERNATES: SEE SCHEDULE OF ALTERNATES IN SPECIFICATION SECTION

01-2300 ALTERNATES. 2. PROVIDE LOCK-OUT BREAKER FOR ALL PERMANENTLY CONNECTED

APPLIANCES OVER 300 VA

	ELECTRICAL DRAWING INDEX
SHEET NO.	SHEET DESCRIPTION
E1.0	SYMBOLS & SITE PLAN
E1.1	PANEL SCHEDULES & 1-LINE DIAGRAM
E1.2	DEMOLITION
E2.1	FIRST FLOOR PLAN - LIGHTING
E2.2	SECOND FLOOR PLAN - LIGHTING
E3.0	UNDER FLOOR TUNNEL PLAN - POWER & SIGNAL
E3.1	FIRST FLOOR PLAN - POWER & SIGNAL
E3.2	SECOND FLOOR PLAN - POWER & SIGNAL





Z

	LIGHT F		SCHEDULE	200	
NAME	MANUFACTURER		DESCRIPTION		ER SIZE
C3 / C8	BARTCD - WEDGE BSS745-34-35-ND-R-SM-SN-AW	TYPE: TRIM:	6″ LED RECESSED DDWNLIGHT SELF FLANGED, CLEAR DIFFUSE		
LO	P22142-24-22-00-K-20-20-4M		C3 = 34''  NDMINAL,  C8 = 96''		STRIBUTION
			SURFACE - CEILING / WALL CORNER	CONNECTE	
		LAMPS:	LED 3500K, 815 LUMENS/FT, 7.2 WATTS/FT		TY FACTOR
D6 / D6E	LITHONIA LDN6 35/2000 L06 AR LD MVOLT	TYPE: TRIM:	6" LED RECESSED DDWNLIGHT SELF FLANGED, CLEAR DIFFUSE	DIVERSIF	IED VA
/ DOF	LUNG 3372000 LUG AR LU MVULT		RECESSED - VERIFY CEILING TYPE	PL T	L
		D6E:	ADD EMERGENCY BATTERY PACK	1 R	DATA RACK
		LAMPS:	LED 3500K, 2000 LUMENS, 23 WATTS	3 R	DATA RACK
DW	LITHONIA LDN6 35/2000 LW6 AR LD MVOLT EL	TYPE: TRIM:	6″ LED RECESSED WALLWASH WALL WASH – SELF FLANGED, CLEAR DIFFUSE	5 R	REC: UTILI
	LUNG 3372000 LWB AR LU MVULT EL		RECESSED - VERIFY CEILING TYPE	7 R	REC: WORK
		BATTERY:	EMERGENCY BATTERY PACK	9 R	REC: WORK
		LAMPS:	LED 3500K, 2000 LUMENS, 23 WATTS	11 R	REC: WORK
D9S	LUMINIS - SCENA		9" SQUARE CEILING LIGHT		REC: WORK
	SN820C-L1L18-K35-120-WHT	HDUSING: MDUNTING:	DIE-CAST ALUMINUM SURFACE		REC: LIBRA
		LAMPS:	LED 3500K, 1800 LUMENS, 23 WATTS		REC: LIARA
FP4	LITHONIA	TYPE:	2 X 4 LED FLAT PANEL		REC: E. DP
	CPANL 2X4 40/50/60LM 35K M2 2X4CFMK		ALUMINUM FRAME		REC: DIREC
		FINISH: MOUNTING:	WHITE POLYESTER COATING SURFACE - CEILING		REC: DIREC
			LED, 82 CRI, 3,500K, 5,000 LUMEN (32/42/52 WATTS)		REC: TOILE
L14	FINELITE - SERIES 16 LED	TYPE:	4 FT LINEAR PENDANT - BREAK ROOM		REC: CIRCU
	S16 LED ID-DCD-4′-2E-∨-835-10U90D	HDUSING:	ALUMINUM FRAME		REC: SW CI
	-120V-SC-FA-FE-C4	FINISH	WHITE POLYESTER COATING		E. ADA DOC
		MDUNTING: LAMPS:	CEILING – SUSPENDED LED, 80 CRI, 3,500K, 3100 LUMEN (36 WATTS)		N. ADA DOC HEATER -
L4	VODE - ZIP TWO	TYPE:	LOW-PROFILE LED STRIP		HEATER -
L6	707-Z2 SL LENGTH C RP AE 1 0 Z	HDUSING:	EXTRUDED ALUMINUM		HEATER -
L8	SD 35 S4 0 WH 0	DIFFUSER:	HIGH-IMPACT EXTRUDED ACRYLIC		FIRE ALARI
			SURFACE - CLIP		
		LENGTH: FINISH:	L4 = 4 FT, L6 = 6 FT, L8 = 8 FT WHITE		cuit conduc
		LAMPS:	LED 3500K, 700 LM/FT, 6.6 W/FT		
P12	LOUIS POULSEN - CIRQUE	TYPE:	SMALL PENDANT	l	
		SHADE:	ACRYLIC	2ND FI	LR LIGHT
		MDUNTING: FINISH:	CABLE – SEE ARCHITECTURAL SECTION A-302 TBD BY ARCHITECT	200	AMP
			LED 3500K, 832 LUMENS, 22 WATTS	FEEDE	ER SIZE
P21	G-Lighting - STONE	TYPE:	21" DIAMETER STAIR PENDANT		-
	GL-2370-H-N-TBD-3-DM-38	SHADE:	ACRYLIC		STRIBUTION
		MDUNTING: FINISH:	STEM - 38'' TBD BY ARCHITECT	CONNECTE	
			LED 3500K, 3956 DOWN + 1213 UP LUMENS, 51 WATTS		TY FACTOR
P36	DELRAY LIGHTING - CYLINDRD 2	TYPE:	LED PENDANT - OPEN RING	DIVERSIF	
	6723-W-W35-C-D	LENS/HOUSING:	36" DIAMETER ALUMINUM - ACRYLIC LENS	PL T	L
		MOUNTING	CABLE HUNG – CENTRAL 8′-5 3/8′′ AFF – SEE ARCH, SECTI⊡N A-301	1 H	RANGE
		FINISH:	WHITE	З Н	
		LAMPS:	LED 3500K, 5580 LUMENS, 73 WATTS	5 R	BREAK FRI
82	EXTANT - HUNTINGTON 3	TYPE:	8 FT LED STACK – PENDANT	7 R	BREAK COU
	HTGDU-3P TD LENGTH DHL MEDBW		EXTRUDED ALUMINUM - MATTE WHITE	9 R	BREAK SIN
	ULL MEDBW 835 VU DN WP AC	M□UNTING: DRI∨ER:	CABLE-HUNG 9'-10'' AFF SEE ARCH. SECTION A-301 INTEGRAL DRIVER, NO CANOPIES	11 R	DISHWASHE
		DIRECT/IND:	UP: DLL 1.84 W/FT , DDWN: DHL 9.46 W/FT		REC: BREAK
		LAMPS:	LED 3500K, 5200 LUMENS, 45.5 WATTS		REC: SER∨.
W1	ACCESS LIGHTING - SANDPIPER	TYPE:	UP / DOWN LED CYLINDER		REC: SER∨.
	20036-LEDMG-BRZ/FST	FINISH	BRONZE	19 R	REC: SER∨.
	DAL – LEDWALL-A-BK RAB – CDLED	MOUNTING: LAMPS:	SURFACE – WALL LED 3000K, 3400 LUMENS, 30 WATTS	21	SPARE
W2	BARN LIGHT ELECTRIC CD - DOMINION	TYPE:	12" WALL SCINCE	23	SPARE
	BLEG-SBD12-TBD-G24-TBD-NA-NA-NA-NA	HDUSING:	EXTRUDED ALUMINUM		REC: STORA
	LED27-3000K-FL	FINISH:	TBD BY ARCHITECT	27	SPARE
		MDUNTING: LAMPS:	SURFACE - WALL EN 22 3/4″ GEESENECK ARM LED 3000K, 2000 LUMENS, 27 WATTS	29	SPARE
X1	LITHONIA - ECBR LED M6	TYPE:	LED EXIT SIGN WITH EMERGENCY LIGHT BAR	31	SPARE
-		HDUSING:	THERMOPLASTIC OR POLYCARBONATE	33	SPARE SPARE
		FINISH:	WHITE HOUSING WITH RED LETTERS	35	SPARE
		MDUNTING: LAMPS:	FIELD VERIFY MOUNTING LED		LTS: PROGR
		BATTERY:	LED NI-CAD BATTERY		LTS: 2ND F
		NDTE:	DOUBLE FACE AS NECESSARY		MLISI ZNU F
		TYPE:	LED STRIP LIGHT		cuit conduc
Z4	LITHONIA – Z SERIES				
Z4	ZL1D L48 SMR 5000LM FST M∨DLT 35K	HOUSING	COLD-ROLLED STEEL, ACRYLIC LENS		
Z4		HDUSING: FINISH:	WHITE POWDER COAT	1	
Z4	ZL1D L48 SMR 5000LM FST M∨DLT 35K	HOUSING	•		NICAL

LIGHTING CONTROL PANEL - LCP									
RELAY DESCRIPTION CIRCUIT CONTROL PROGRAM									
1 BUILDING EXTERIOR L1-40 PHOTO CELL ON/OFF									
2 BUILDING SIGNAGE -EAST L1-36 PHDTD CELL DN/DFF									
3 BUILDING SIGNAGE -NORTH L1-38 PHOTO CELL ON/OFF									
4	STAIRS & ENTRIES	L2-30	MANUAL						
5	STACKS A	L2-36	MANUAL ON / TIMER OFF						
6 STACKS B L2-38 MANUAL DN / TIMER DFF									
7 PENDANTS L2-30 MANUAL DN / TIMER DFF									
8 VAULT / TEEN / COMP L2-28 MANUAL									

BLUE BUX, SWITCHKEEPER UR APPRUVED EQUAL.

KEYED NOTES

PROVIDE LOCK-OUT BREAKER FOR ALL PERMANENTLY CONNECTED APPLIANCES OVER 300 VA

1ST	FL	DOR LIGHTING PA	NEL					P/	4NE	EL	' L	_1 '					F	AULT CURRENT =	13,4	FSI		
20	0	AMP	MLO					120	1	2Ø	8	VOL	19					3-PHASE, 4	4-WI	RE		
FE	EDE	R SIZE				ALU	MINUM	1: 3"	С,	4 •	<b>3</b> 0	90 PH	i, *4 c	RD				Flush Mo	UNT	ED	ID	
	DIS	TRIBUTION	LTG	REC	MOTOR	DATA	EXTG	HEAT				MISC	PH-A	PH-B	PH-C	TOTAL	AMPS	WITH SPARE		25%	AHU -	1
	NECTE	D VA	1225	12780	2352	0	0	2250				500	6806	6571	5730	19107	57	23884 VA		71	HP -	1
DI∨E	ERSIT	Y FACTOR	125%	89%	100%	100%	65%	100%				100%									AHU -	2
DI∨E	ERSIF	IED VA	1531	11390	2352	0	0	2250				500	6347	6182	5494	18023	53	22529 VA		66		
PL	Т	LOAD	VA	HP	PHW	GND	CDN	BKR		PH		BKR	CON	GND	PHW	HP	VA	LOAD	T	PL	HP - RTU -	
1	R	DATA RACK	180		12	12	1/2	20	1	Α	1	20	1/2	12	12		360	REC: PC STATIONS	R	2		
3	R	DATA RACK	180		12	12	1/2	20	1	в	1	20	1/2	12	12		360	REC: PC STATIONS	R	4	PEF -	1
5	R	REC: UTILITY B1	540		12	12	1/2	20	1	С	1	20	1/2	12	12		360	REC: PC STATIONS	R	6	RTU -	2
7	R	REC: WORK RM	540		12	12	1/2	20	1	Α	1	20	1/2	12	12		360	REC: PC STATIONS	R	8	PEF -	2
9	R	REC: WORK RM	540		12	12	1/2	20	1	в	1	20	1/2	12	12		540	REC: TEEN W.WALL	R	10	RTU -	3
11	R	REC: WORK RM	360		12	12	1/2	20	1	С	1	20	1/2	12	12		720	REC: TEEN WINDOW	R	12	PEF -	
13	R	REC: WORK RM	540		12	12	1/2	20	1	Α	1	20	1/2	12	12		720	REC: TEEN FLR /WALL	R	14		
15	R	REC: LIBRARY DFF	540		12	12	1/2	20	1	в	1	20	1/2	12	12		360	REC: CIRC. DESK	R	16	DHP -	1
17	R	REC: LIARARY DFF	540		12	12	1/2	20	1	С	1	20	1/2	12	12		360	REC: CIRC. DESK	R	18	IHP -	1
19	R	REC: E. OPAC	180		12	12	1/2	20	1	A	1	20	1/2	12	12		540	REC: VAULT	R	20	DHP -	2
21	R	REC: DIRECTOR OFF	540		12	12	1/2	20		В	1	20	1/2	12	12		540	REC: NW CORNER	R	22	IHP -	<u> </u>
23	R	REC: DIRECTOR OFF	360		12	12	1/2	20	1	С	1	20	1/2	12	12		180	REC: W. OPAC	R	24		
25	R	REC: TOILETS	900		12	12	1/2	20	1	A	1	20	1/2	12	12		360	BOOK SECURITY	R	26	EF-1	
27	R	REC: CIRCULATION	360		12	12	1/2	20	11 11	в	1	20	1/2	12	12		360	BOOK SECURITY	R	28	EF-2	
29	R	REC: SW COLLECTION	360		12	12	1/2	20	1	С	1	20	1/2				0	SPARE		30	EF-2	
31	м	E. ADA DOORS	1176	1/2	12	12	1/2	20	1	A	1	20	1/2				0	SPARE		32	EWH -	1
33	м	N. ADA DOORS	1176	<mark>}</mark> 2	12	12	1/2	20	11 11	В	1	20	1/2				0	SPARE		34		
35	н	HEATER - EAST	750	$\langle \cdot \rangle$	12	12	1/2	20	1	С	1	20	1/2	12	12		200	E. SIGN	L	36	EWH -	2
37	н	HEATER - NORTH	750	$\left\langle \cdot \right\rangle$	12	12	1/2	20	1	Α	1	20	1/2	12	12		200	N. SIGN	L	38	EWH -	3
39	н	HEATER - STAIR	750	$\langle \cdot \rangle$	12	12	1/2	20	1 1	В	1	20	1/2	12	12		325	LTS - BLDG EXTERIOR	L	40	WH-1	
41		FIRE ALARM CNTL	500		12	12	1/2	20	1	С	1	20	1/2	12	12		500	READERBOARD		42	RCP-	1
<b>_1</b>									6/3	30/2	023	1						FED FROM PANEI				۰ 
ALL	CIRC	uit conductors sized	FOR COP	PER														22.21 Sch	nedu	les		
																					SP -	1

ND FLR LIGHTING PANEL PANEL ' L2 ' FAULT CURRENT = 12,009 øø amp MLO 120 / 208 VOLTS 3-PHASE, 4-WIRE EEDER SIZE ALUMINUM: 3" C, 4 \*300 PH, \*4 GRD FLUSH MOUNTED JAD DISTRIBUTION WITH SPARE LTG REC MOTOR DATA EXTG HEAT MISC PH-A PH-B PH-C TOTAL AMPS 33094 VA INNECTED VA 0 0 8000 0 8995 9860 7620 26475 82 7240 11235 103 0 VERSITY FACTOR 100% 100% 65% 100% 100% 125% 95% VERSIFIED VA 34584 VA 9050 10618 0 0 0 8000 0 9062 10464 8142 27668 87 VA HP PHW GND CON BKR PH BKR CON GND PHW HP VA LOAD LOAD 8 10 3/4 50 2 **A** 1 20 1/2 12 12 REC: CIRC, PUMP R H RANGE 4000 90 **B** 1 20 1/2 12 12 4000 720 REC: HALL & TDILETS 
 1176
 1/2
 12
 1/2
 20
 1
 C
 1
 20
 1/2
 12
 12
 R BREAK FRIDGE REC: CIRCULATION 720 R BREAK COUNTER 12 12 1/2 20 1 **A** 1 20 1/2 12 12 REC: SW PROGRAM 540 180 12 12 1/2 20 1 **B** 1 20 1/2 12 12 360 1200 R BREAK SINK CNTR REC: NW PROGRAM R DISHWASHER 12 12 1/2 20 1 **C** 1 20 1/2 12 12 REC: NE PROGRAM 540 12 12 1/2 20 1 **A** 1 20 1/2 12 12 R REC: BREAK WALL REC: SE PROGRAM 12 12 1/2 20 1 **B** 1 20 1/2 12 12 R REC: SER∨. CNTR FLOOR BOXES R 12 12 1/2 20 1 **C** 1 20 1/2 12 12 R REC: SER∨. CNTR FLOOR BOXES R 18 720 R REC: SERV. CNTR 12 12 1/2 20 1 **A** 1 20 1/2 12 12 1/2 20 1 **B** 1 20 1/2 12 12 SPARE 1/2 20 1 **C** 1 20 1/2 12 12 SPARE REC: STORAGE 20 12 1/2 20 1 **A** 1 20 1/2 12 12 630 SPARE 1/2 20 1 **B** 1 20 1/2 12 12 968 LTS - EAST SIDE 1/2 20 1 **C** 1 20 1/2 12 12 1038 LTS - STAIRS & PEND L SPARE 1/2 20 1 **A** 1 20 1/2 12 12 SPARE LTS - ADMIN 1119 1/2 20 1 **B** 1 20 1/2 12 12 SPARE 1274 LTS - STACKS - A SPARE 1/2 20 1 **C** 1 20 1/2 12 12 1274 LTS – STACKS – B 

 1/2
 20
 1
 A
 1
 20
 1/2
 12
 12
 1176
 ELEVATOR SUMP
 R
 38

 12
 12
 1/2
 1/2
 20
 1
 B
 1
 20
 1/2
 12
 12
 303
 ELEVATOR PIT LTS
 R
 40

 12
 12
 1/2
 1/2
 12
 12
 12
 200
 ELEVATOR PIT LTS
 R
 40

 12
 12
 1/2
 1/2
 12
 12
 200
 ELEVATOR CAR
 L
 42

 SPARE 9 L LTS: PROGRAM 25 795 L LTS: 2ND FLOOR 572 FED FROM PANEL 'MDP' 6/22/2023

LL CIRCUIT CONDUCTORS SIZED FOR COPPER

MEC	HAN	NICAL						P	4N	ÆL	11	1 '					FA	Ault current =	13,6	<i>•</i> Ø6
400	0	AMP	MLO					12Ø	1	2Ø	8	VOL1	.e					3-19HASE, 4	4-W	IRE
FEE	DE	R SIZE			ALUN	1INUM	: 2 <del>S</del> E	ets -	3	" C	;, 4	*300	) PH,	#/Ø (	RD			FLUSH MO	UNT	ΈD
	סות	TRIBUTION	LTG	REC	MOTOR	DATA	EXTG	HEAT				MISC	PH-A	PH-B	PH-C	TOTAL	AMPS	WITH SPARE		25%
			0	360	36971	0	0	17130					19258		17785		161	68076 VA		201
		Y FACTOR	125%	100%	100%	100%	65%	100%				100%	17200	17 110	1,,00	01101	101	00070 111		201
		IED VA	0	360		0	0	17130					19258	17418	17785	54461	161	68076 VA		201
PL	Т	LOAD	VA	HP	PHW	GND	CON	BKR		PH		BKR	CON	GND	PHW	HP	VA	LOAD	Т	PL
1	м	RTU - 1	2303		10	10	3/4	30	3		3	20	1/2	12	12	1/2	470	PDWER EXHAUST 1	м	2
3	м		2303							в							470		м	4
5	м		2303							С							470		м	6
7	м	RTU - 2	2303		10	10	3/4	30	3	A	3	20	1/2	12	12	1/2	470	POWER EXHAUST 2	м	8
9	м		2303							В	$\square$						470		м	10
11	м		2303							C							470		м	12
13	м	RTU - 3	2303		10	10	3/4	30	3	A	3	20	1/2	12	12	1/2	470	POWER EXHAUST 3	м	14
15	м		2303							В							470		м	16
17	м		2303							C							470		м	18
19	н	AHU - 1	2596		8	10	3/4	35	2	A	2	25	1/2	10	12		1206	HP - 1	м	20
21	н		2596							В							1206		м	22
23	н	AHU - 2	3719		8	10	3/4	45	2	C	2	30	1/2	10	12		1514	HP - 2	м	24
25	н		3719							A							1514		м	26
27	м	MINI-SPLIT DHP - 1	1622		12	12	1/2	20	2	В	2	30	1/2	10	10		2250	WATER HEATER	н	28
29	м		1622							C							2250		н	30
31	м	MINI-SPLIT DHP - 2	728		12	14	1/2	15	2	A	1	20	1/2	12	12	1/2	1176	EF - 1	м	32
33	м		728							В	1	20	1/2	12	12	1/4	696	EF - 2	м	34
35										С	1	20	1/2	12	12		360	ROOF TOP RECEPT.	R	36
37										A										38
39										В										40
41										C										42

ALL CIRCUIT CONDUCTORS SIZED FOR COPPER

FEEDER SCHEDULE

200A) 3" C, 4 #300 AL PH, #4 AL GRD (400A) 2 SETS - 3" C, 4 #300 AL PH, #1/0 AL GRD 600A) 3 SETS - 3" C, 4 #300 AL PH, #2/0 AL GRD 600U) 2 SETS - 4" C - VERIFY ALL REQUIREMENTS WITH UTILITY

6/22/2023

DESCRIPTION

AIR HANDLING UNIT

HEAT PUMP

AIR HANDLING UNIT

HEAT PUMP

ROOF TOP UNIT

POWER EXHAUST

ROOF TOP UNIT

POWER EXHAUST

ROOF TOP UNIT

POWER EXHAUST

MINI-SPLIT - OUTDOOR

MINI-SPLIT - INDOOR

MINI-SPLIT - OUTDOOR

MINI-SPLIT - INDOOR

EXHAUST FAN

EXHAUST FAN

EXHAUST FAN

ELECTRIC WALL HEAT

ELECTRIC WALL HEAT

ELECTRIC WALL HEAT

WATER HEATER

RECIRC, PUMP ELEVATOR

SUMP PUMP

1 MOTOR RATED SWITCH .

KEYED NOTES

6/22/2023

22.21 Schedules

FED FROM PANEL 'MDP'

22.21 Schedules

600 AMP FEEDER SIZE LOAD DISTRIBUTION CONNECTED VA DIVERSITY FACTOR DIVERSIFIED VA PL T LOAD 1 P PANEL L1 3 P PANEL L1 5 P PANEL L1 7 P PANEL L2 9 P PANEL L2 11 P PANEL L2 19 21 23 MDP ALL CIRCUIT CONDUCTORS SIZED

CT 60 ENCLOSURE SEF 48 x 48 

IIT         UTILITY 22         31.2         35         208         1         30/2         X         3.8 KW HEATER           RDDF         14.5         25         208         1         30/2         X         6 KW HEATER           IIT         UTILITY 22         44.7         45         208         1         60/2         X         6 KW HEATER           IIT         UTILITY 22         44.7         45         208         1         60/2         X         6 KW HEATER           RDDF         18.2         30         208         1         30/2         X         NEMA 3R           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           IDDR         RDDF         1/2         HP         20         208         1         30/2										
IIT         UTILITY 22         31.2         35         208         1         30/2         X         3.8 KW HEATER           RDDF         14.5         25         208         1         30/2         X         6 KW HEATER           IIT         UTILITY 22         44.7         45         208         1         60/2         X         6 KW HEATER           IIT         UTILITY 22         44.7         45         208         1         60/2         X         6 KW HEATER           RDDF         18.2         30         208         1         30/2         X         NEMA 3R           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           IDDR         RDDF         1/2         HP         20         208         1         30/2	ME	ECHANICA	AL EC	QUIP	MEN <sup>-</sup>	t sc	HE	EDULE		
IIT       UTILITY 22       31.2       35       208       1       30/2       X       3.8 KW HEATER         REDF       14.5       25       208       1       30/2       NEMA 3R         IIT       UTILITY 22       44.7       45       208       1       60/2       X       6 KW HEATER         REDF       18.2       30       208       1       30/2       X       NEMA 3R         REDF       12       44.7       45       208       1       30/2       X       NEMA 3R         REDF       12       44.7       45       208       3       30/3       X       NEMA 3R         REDF       1/2       HP       4.9       8.8       208       3       30/3       X         REDF       1/2       HP       4.9       8.8       208       3       30/3       X          REDF       1/2       HP       4.9       8.8       208       3       30/3       X          REDF       1/2       HP       4.9       8.8       208       3       30/3       X          MEDR       RDDF       1/2       HP       9       20		LOCATION	HP/KVA	MCA	MOCP	VOLT	PH :	DISCONNEC	T SWITCH	H NOTE
REDF14.525208130/2NEMA 3RIITUTILITY 2244.745208160/2X6 KW HEATERREDF18.230208130/2XNEMA 3RREDF1/2HP4.98.8208330/3XINTERNALLY FUREDF1/2HP4.98.8208330/3XINTERNALLY FUREDF1/2HP4.98.8208330/3XINTERNALLY FUREDF1/2HP4.98.8208330/3XINTERNALLY FUREDF1/2HP4.98.8208330/3XINTERNALLY FUREDF1/2HP4.98.8208330/3XINTERNALLY FUREDF1/2HP4.98.8208330/3XINTERNALLY FUREDF1/2HP4.98.8208330/3XINTERNALLY FUREDF1/2HP4.98.8208330/3XINTERNALLY FUDEDRREDF1/2HP4.98.8208330/3XINTERNALLY FUDEDRREDF1/2HP4.98.8208330/3XINTERNALLY FUDEDRREDF1/2HP4.98.8208130/3XINTERNALLY FUDEDRREDF								SIZE	FUSED	
ITUTILITY 2244.745208160/2X6 KW HEATERRDDF18.230208130/2XNEMA 3RRDDF1/2HP4.98.8208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FUDDRRDDF1/2HP4.98.8208130/2EXISTING TD BIDDRRDDF1/2HP4.9208130/2EXISTING TD BIDDRRDDF1/2HP1201SEE MECHANICADDRRDDF1/2HP1201SEE MECHANICADDRRDDF1/4HP1201SEE MECHANICADD	IT	UTILITY 22		31.2	35	208	1	30/2	Х	3.8 KW HEATER
RDDF       IB.2       30       208       1       30/2       X       NEMA 3R         RDDF       24       30       208       3       30/3       X       INTERNALLY FU         RDDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         RDDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         RDDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         RDDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         RDDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         RDDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         DDR       RDDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         DDR       RDDF       1/2       HP       208       1       30/2       IN		ROOF		14.5	25	208	1	30/2		NEMA 3R
RDDF         24         30         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X         INTERNALLY FU           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X         INTERNALLY FU           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           RDDF         1/2         HP         4.9         8.8         208         3         30/3         X           DDR         RDDF         1/2         HP         208         1         30/2         EXISTING TD BI           DDR         RDDF         1/2         HP         208         1         30/2         EXISTING TD BI	IT	UTILITY 22		44.7	45	208	1	60/2	Х	6 KW HEATER
REDF       1/2       HP       4.9       8.8       208       3       30/3       INTERNALLY FU         REDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         REDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         REDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         REDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         REDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         DDR       REDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         DDR       REDF       1/2       HP       4.9       8.8       208       3       30/3       X       INTERNALLY FU         DDR       REDF       1/2       HP       12.2       15       208       1       30/2       EXISTING TO BU         DDR       UTILITY B1       I<		ROOF		18.2	30	208	1	30/2	Х	NEMA 3R
RIDF2430208330/3XRIDF1/2HP4.98.8208330/3XRIDF1/2HP2430208330/3XRIDF1/2HP4.98.8208330/3XRIDF1/2HP4.98.8208330/3XRIDF1/2HP4.98.8208330/3XRIDRRIDF1/2HP4.98.8208330/3XDIDRRIDF1/2HP4.98.8208130/2NEVDIRRIDF1/2HP19.520208130/2NEVDIRRIDF12.215208130/2EXISTING TO BEDIRUTILITY B1I12.215208130/2EXISTING TO BEDIRRIDF1/2HP12.0130/2EXISTING TO BEDIRRIDF1/2HP12.01SEE MECHANICARIDF1/4HP12.01201SEE MECHANICARIDF1/4HP12.01ILIDCK-DUT BEARIDF1/10HP12.01ILIDCK-DUT BEARIDF1/10HP12.01ILIDCK-DUT BEARIDF1/10HP12.01ILIDCK-DUT BEARIDF1/10<		ROOF		24	30	208	З	30/3	Х	
RDDF1/2HP4.98.8208330/3INTERNALLY FURDDF2430208330/3XINTERNALLY FURDDF1/2HP4.98.8208330/3XINTERNALLY FUDDDRRDDF1/2HP4.98.8208330/3XINTERNALLY FUDDRRDDF1/2HP4.98.8208130/2NEWDDRRDDF19.520208130/2EXISTING TD BUDDRRDDF12.215208130/2EXISTING TD BUDDRNTLITY B112.215208130/2EXISTING TD BUDDRNTLITY B112.215208130/2EXISTING TD BUDDRNTLITY B11201SEE MECHANICARDDF1/2HP1201SEE MECHANICARDDF1/4HP1201SEE MECHANICARDDF1/4HP1201LDCK-DUT BREAARDF1/10HP1201LDCK-DUT BREAEATENTRY 1750W1201LDCK-DUT BREAEATENTRY 2750W1201LDCK-DUT BREAUTILITY 224.5KW2081LDCKLDCK-DUT BREA<		RODF	1/2 HP	<b>-</b> 4.9	8.8	208	3	30/3		INTERNALLY FUSED
RDDF       24       30       208       3       30/3       X         RDDF       1/2       HP       4.9       8.8       208       3       30/3       X         NDDR       RDDF       1/2       HP       4.9       8.8       208       3       30/3       X         NDDR       RDDF       1/2       HP       4.9       8.8       208       3       30/3       X         NDDR       RDDF       1/2       HP       4.9       8.8       208       1       30/2       NEW         NDR       RDDF       1/2       HP       208       1       30/2       EXISTING TD BI         NDR       VTILITY B1       12.2       15       208       1       30/2       EXISTING TD BI         NDR       RDDF       1/2       HP       12.0       1       SEE MECHANICA         RDDF       1/2       HP       120       1       SEE MECHANICA         RDDF       1/4       HP       120       1       SEE MECHANICA         RDDF       1/4       HP       120       1       LDCK-DUT BREA         EAT       ENTRY 1       750       W       120       1		ROOF		24	30	208	З	30/3	Х	
RIDF1/2HP4.98.8208330/3INTERNALLY FUDDRRIDF119.520208130/2NEWDDRTEEN RDDM		RODF	1/2 HP	9 4.9	8.8	208	З	30/3		INTERNALLY FUSED
NUDRRUDF19.520208130/2NEWDURTEEN RUDM		RODF		24	30	208	З	30/3	Х	
JURTEEN RUDMImage: Marking the state of the state		RODF	1/2 HP	9 4.9	8.8	208	З	30/3		INTERNALLY FUSED
DDDRRDDF12.215208130/2EXISTING TD BIDDRUTILITY B1I2081FED FRUM DHP-RDDF1/2HP1201201SEE MECHANICARDDF1/4HP1201201SEE MECHANICARDDF1/10HP1201201SEE MECHANICARDDF1/10HP1201201SEE MECHANICAEATENTRY 1750W1201LDCK-DUT BREAEATENTRY 2750W1201LDCK-DUT BREAEATSTAIR 2750W1201LDCK-DUT BREAUTILITY 224.5KW2081II	DOR	ROOF		19.5	20	208	1	30/2		NEW
DORUTILITY B12081FED FROM DHP-RODF1/2HP1201SEE MECHANICARODF1/4HP1201SEE MECHANICARODF1/4HP1201SEE MECHANICARODF1/10HP1201SEE MECHANICARODF1/10HP1201SEE MECHANICAEATENTRY 1750W1201LOCK-OUT BREAEATENTRY 2750W1201LOCK-OUT BREAEATSTAIR 2750W1201LOCK-OUT BREAUTILITY 224.5KW2081LOCK	IDR	TEEN ROOM				208	1			FED FROM OHP-1
RDDF1/2HP1201SEE MECHANICARDDF1/4HP1201SEE MECHANICARDDF1/10HP1201SEE MECHANICAEATENTRY 1750W1201LDCK-DUT BREAEATENTRY 2750W1201LDCK-DUT BREAEATSTAIR 2750W1201LDCK-DUT BREAUTILITY 224.5KW2081LDCKLDCK-DUT BREA	DOR	ROOF		12.2	15	208	1	30/2		EXISTING TO BE REUSED
RDDF1/4HP1201SEE MECHANICARDDF1/10HP1201SEE MECHANICAEATENTRY 1750W1201LDCK-DUT BREAEATENTRY 2750W1201LDCK-DUT BREAEATSTAIR 2750W1201LDCK-DUT BREAUTILITY 224.5KW2081LDCK	IDR	UTILITY B1				208	1			FED FROM OHP-2
RDDF1/10HP1201SEE MECHANICAEATENTRY 1750W1201LDCK-DUT BREAEATENTRY 2750W1201LDCK-DUT BREAEATSTAIR 2750W1201LDCK-DUT BREAUTILITY 224.5KW2081LDCK		ROOF	1/2 HP	<b>D</b>		120	1			SEE MECHANICAL
EAT       ENTRY 1       750 W       120       1       LOCK-OUT BREA         EAT       ENTRY 2       750 W       120       1       LOCK-OUT BREA         EAT       STAIR 2       750 W       120       1       LOCK-OUT BREA         UTILITY 22       4.5 KW       208       1       LOCK-OUT BREA		ROOF	1/4 HP	<b>D</b>		120	1			SEE MECHANICAL
EAT       ENTRY 2       750 W       120 1       LOCK-OUT BREA         EAT       STAIR 2       750 W       120 1       LOCK-OUT BREA         UTILITY 22       4.5 KW       208 1       1       LOCK-OUT BREA		ROOF	1/10 HP	5		120	1			SEE MECHANICAL
EAT         STAIR 2         750 W         120         1         LOCK-OUT BREA           UTILITY 22         4.5 KW         208         1	TAT	ENTRY 1	750 W	/		120	1			LOCK-OUT BREAKER
UTILITY 22 4.5 KW 208 1	TAT	ENTRY 2	750 W	/		120	1			LOCK-OUT BREAKER
	TAT	STAIR 2	750 W	/		120	1			LOCK-OUT BREAKER
		UTILITY 22	4.5 KW	~		208	1			
UTILITY 22 90 W 120 1 CORD & PLUG		UTILITY 22	90 W	/		120	1			CORD & PLUG
20 HP 100 208 3 2			20 HP	<b>&gt;</b> 100		208	3			2
ELEVATOR PIT         1/2         HP         120         1         CORD & PLUG		ELEVATOR PIT	1/2 HP	с		120	1			CORD & PLUG

2 VERIFY ALL REQUIREMENTS WITH ELEVATOR MANUFACTURER. PROVIDE MINIMUM OF 2" CONDUIT FOR POWER. BASIS OF DESIGN IS FOR A 20 HP ELEVATOR WITH 65.1 FLA BUT THIS IS LIKELY TO CHANGE.



- (1) #1/0 KCMIL CU MAIN BENDING JUMPER PER NEC 250-28(d) #1/0 KCMIL CU GROUNDING ELECTRODE SYSTEM TO ALL
  ITEMS IN NEC 250-104
- ITEMS IN NEC 250-104
- 3 #6 CU EQUIPMENT BONDING JUMPER PER NEC 250-92 & 250-102(d) 250-102(d)
- 4 #6 CU BOND TO INTERNAL METAL PIPING SYSTEM PER NEC 250-104(c)
- ★ #4 CU TD CONCRETE ENCASED ELECTRODE PER NEC 250-50

# 2 GROUNDING DETAIL

E1.1 DIAGRAMMATIC

FAULT CURRENT = 14	4,642
3-PHASE, 4	-WIRE
SURFACE MOU	NTED
AMPS WITH SPARE	25
352 152 KVA	44
333 145 KVA	41
VA LOAD	T PI
19258 PANEL M	P 2
17418 PANEL M	P 4
17785 PANEL M	Ρé
7125 ELEVATOR	M 8
7125 ELEVATOR	M 10
7125 ELEVATOR	M 1i
	1
	1
	2
	2
	2
400A 3∨ 120/208∨ 3-₽H	
200/3 400/3	
j)	-

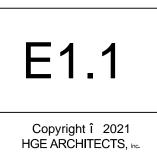


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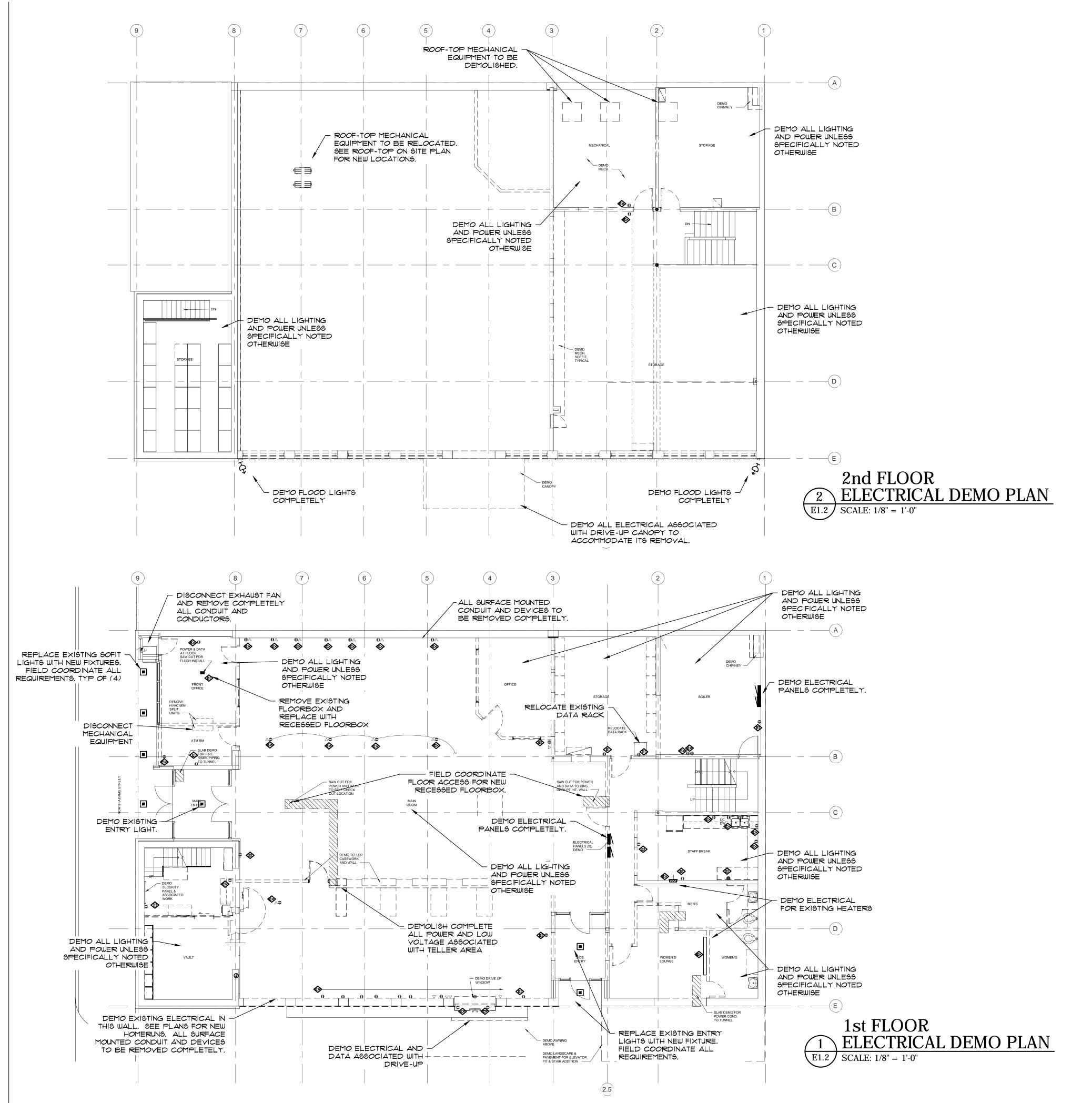


ENOVATION R LIBRARY PUBLIC TREET 97423 PROJECT NO.: 22.37 COQUILLE I ADAMS STOREGON 259 NORTH COQUILLE, ( CONSTRUCTION **REVISIONS:** # DATE DESCRIPTION DATE: APRIL 2012011 2012011 2012011 SHEET TITLE:

> ELECTRICAL SCHEDULES



METER No. 81 155 661 SERVICE REQUEST No. 8276763



- 1. EXISTING ELECTRICAL PLANS ARE AVAILABLE AND SHOULD BE REFERENCED PRIOR TO COMMENCING ON DEMOLITION. ORIGINAL PLANS INCLUDE 1955 AND 1995 DRAWINGS.
- 2. WORK SHOWN ON PLAN IS BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. CONTRACTOR IS TO FIELD VERIFY AND COORDINATE PROJECT REQUIREMENTS WITH EXISTING CONDITIONS.
- 3. SERVICE & DISTRIBUTION EQUIPMENT: IT IS THE INTENTION OF THIS PROJECT TO COMPLETELY REPLACE THE EXISTING ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM. DEMO EXISTING EQUIPMENT AND PROVIDE COMPLETELY NEW INSTALLATION AS INDICATED ON PLANS.
- 4. LIGHTING: IT IS THE INTENTION OF THIS PROJECT TO COMPLETELY REMOVE AND REPLACE LIGHTING SYSTEMS, CONTROLS, CONDUIT AND CONDUCTORS. EXISTING CONDUIT, CONDUCTORS, J-BOXES, AND CONTROL LOCATIONS MAY BE REUSED IF SUITABLY LOCATED TO ACCOMMODATE THE NEW INSTALLATION AND ARE IN GOOD OPERATING CONDITION. NOT ALL COMPONENTS ARE SHOWN ON THE DEMOLITION PLAN.
- 5. RECEPTACLES: IT IS THE INTENTION OF THIS PROJECT TO COMPLETELY REMOVE AND REPLACE ALL RECEPTACLES AND OTHER POWER OUTLETS AND THEIR ASSOCIATED CONDUIT AND CONDUCTORS. EXISTING CONDUIT, CONDUCTORS AND J-BOXES MAY BE REUSED IF SUITABLY LOCATED TO ACCOMMODATE THE NEW INSTALLATION AND ARE IN GOOD OPERATING CONDITION. NOT ALL COMPONENTS ARE SHOWN ON THE DEMOLITION PLAN.
- 6. LOW VOLTAGE: IT IS THE INTENTION OF THIS PROJECT TO COMPLETELY REMOVE AND REPLACE ALL LOW VOLTAGE SYSTEMS AND THEIR ASSOCIATED CONDUIT AND CONDUCTORS. EXISTING CONDUIT AND J-BOXES MAY BE REUSED IF SUITABLY LOCATED TO ACCOMMODATE THE NEW INSTALLATION AND ARE IN GOOD OPERATING CONDITION. NO DATA CONDUCTORS SHALL BE REUSED. NOT ALL COMPONENTS ARE SHOWN ON THE DEMOLITION PLAN.
- REUSE OF EXISTING CONDUIT AND CONDUCTORS IS PERMITTED SO LONG THAT ALL EXISTING COMPONENTS PLANNED FOR REUSE ARE IN GOOD OPERATING CONDITION. UNSUITABLE ITEMS SHALL NOT BE REUSED.
- 8. WIRING WHICH SERVES USABLE EXISTING OUTLETS SHALL BE REPOUTED AND RESTORED CLEAR OF CONSTRUCTION. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEM. REPAIR AND RECONDITION ASSOCIATED SURFACES TO MATCH ADJACENT SURFACES. VERIFY EXACT LOCATIONS IN THE FIELD.
- 9. UNLESS NOTED OTHERWISE, ALL EQUIPMENT AND DEVICES SHOWN ON THIS PLAN ARE TO BE DISCONNECTED AND REMOVED. WITH THE EXCEPTION OF WIRING TO BE REUSED DURING NEW INSTALLATION, REMOVE ALL UNUSED WIRING AND CONDUIT BACK TO PANEL OR ORIGIN. WIRING WHICH SERVES USABLE EXISTING LIGHTING AND POWER OUTLETS SHALL BE REROUTED AND RESTORED CLEAR OF CONSTRUCTION. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEM.
- 10. CONTRACTOR SHALL COORDINATE AND PERFORM NECESSARY ELECTRICAL DEMOLITION WORK ASSOCIATED WITH ALL ITEMS AND EQUIPMENT TO BE REMOVED. FIELD COORDINATE WITH ARCHITECT AND MECHANICAL CONTRACTOR.
- 11. DISCONNECT AND REMOVE ELECTRICAL CONNECTION AND ASSOCIATED WIRING TO EXISTING MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO DEMOLITION. VERIFY EXACT LOCATION IN THE FIELD.



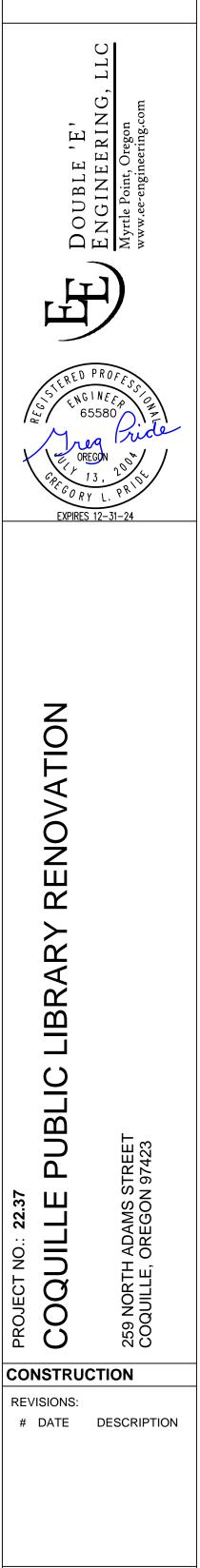
EXISTING RECEPTACLE TO REMAIN. VERIFY SUITABILITY OF CONDUCTORS AND REPLACE AS NECESSARY. REPLACE DEVICE AND COVER PLATE TO MATCH NEW. RELOCATE DEVICE TO +18" AFF UNO

EXISTING RECEPTACLE SHOWN 1955 OR 1995 ELECTRICAL PLANS. VERIFY LOCATION. VERIFY SUITABILITY OF CONDUCTORS AND REPLACE AS NECESSARY. REPLACE DEVICE AND COVER PLATE TO MATCH NEW. BLANK COVER PLATES ARE NOT ACCEPTABLE UNLESS APPROVED BY ARCHITECT.

DEMOLISH COMPLETELY



333 S. 4TH STREET COOS BAY, OR 97420 P: 541.269.1166 www.hge1.com general@hge1.com



DATE: APRIL 2012/2022 SHEET TITLE:

DEMOLITION



