# **LANEY COLLEGE FABRICATION WORKSHOP RELOCATION**

	GENERA	L NOTES	APPLICABLE CODES			PR	OJECT DATA		SCOPE OF WORK
ANY DISCREPANCIES	S, IMMEDIATELY REPORT TO THE ARCHITECT FOR CLA	DNDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. SHOULD THERE BE RIFICATION. GOVERNING CONSTRUCTION. BUILDING. STATE. LOCAL CODES. AND	PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020* 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*		PROJECT:	F	RELOCATION		SCOPE IS TO RELOCATE EXISTING FABRICATION LAB FROM THE SOUTH SIDE OF THEATER BUILDING BY THE OUTDOOR WORK AREA TO THE ART BUILDING, IN GENERAL, THE PROJECT SCOPE CONTAINS:
BUILDING DEPARTME 3. IT IS THE PURPOSE	ENT AGENCIES. OF THESE DRAWINGS TO SHOW THE GENERAL ARRAN	GEMENT OF MODIFICATIONS. ASSUMPTIONS HAVE BEEN MADE REGARDING FLOORS, AND CEILINGS, WHICH WILL NEED TO BE VERIFIED AND PERHAPS	2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR		BUILDING:		ART BUILDING		1.0 FABRICATION WORKSHOP SCOPE
MODIFIED AS THESE EXISTING STRUCTUR	CONDITIONS ARE REVEALED DURING CONSTRUCTION RE.	I. THE ARCHITECT DOES NOT ASSUME ANY RESPONSIBILITY FOR THE DRAWINGS; DETAILS TAKE PRECEDENCE OVER ALL. CONTRACTOR SHALL	2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR		LOCATION:		000 FALLON STREET, OAKLAND, CA 94607		1.1 DEMO: REMOVE ALL (E) NON-CERTIFIED INTERNAL PARTITION. 1.2 INTERIOR SCOPE:
NOTIFY ARCHITECT ( 5. ALL WORK SHALL BE	OF CONFLICTS IN WRITING PRIOR TO COMMENCEMEN E PERFORMED IN AN APPROVED WORKMANLIKE MANN	T OF WORK. DRAWINGS ARE NOT TO BE SCALED FOR ANY REASON.	2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR		OWNER:		PERALTA COMMUNITY COLLEGE DISTRICT		1.2.1 NEW PARTITION WORK: PROVIDE (N) FRAMING, MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL WORK AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
7. THE CONTRACTOR S BEFORE PROCEEDIN	SHALL VERIFY THE LOCATION OF EXISTING UNDERGR(	DUND STORM DRAIN, SANITARY SEWER, WATER, GAS & ELECTRICAL LINES	2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR		DATE OF CONSTRU		2005		1.2.2 CEILING SCOPE: PROVIDE (N) FABRIC LINER TO HOLD (E) INSULATION AT (E) TALL CEILING. PROVIDE (N) CEILING TO (N) INTERNAL PARTITIONS AS INDICATED ON THE
9. AT ALL TIMES THE C PROPERTY.		ONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF PERSONS AND	2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR		OCCUPANCY CLASS		3		DRAWINGS AND IN THE SPECIFICATIONS. 1.3 MECHANICAL:
ALL CHANGES MUST 11. THE CONTRACTOR	HAVE THE ARCHITECT'S APPROVAL. R IS RESPONSIBLE TO COMPARE AND COORDINATE ALL	P ARE IN COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. ANY AND DRAWINGS FOR PROPER FIT AND ATTACHMENT OF ALL PARTS. DETAILS	2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR		BUILDING TYPE:		/-В		<b>1.3.1 DUST COLLECTOR</b> : RELOCATE (E) DUST COLLECTOR AND PROVIDE (N) DUCTS TO PROPOSED LOCATIONS AS INDICATED ON THE DRAWINGS.
SIMILAR CONDITIONS	ETAILED ON DRAWINGS, NOR CALLED FOR IN THESE N S WHICH ARE SHOWN DETAILED, OR SPECIFIED. ALL COORDINATE WITH OWNER ALL NON-SPECIFIED ITE	OTES SHALL BE CONSTRUCTED TO SAME SIZE AND CHARACTER AS FOR	TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS		SPRINKLERS:		(ES, AUTOMATIC SPRINKLERED, DSA APP#01	-106719	1.3.2 DUCTS: (E) DUCTS TO REMAIN. CLEAN (E) DUCTS AND PROVIDE (N) EXTENSION TO LOCATIONS AS INDICATED ON THE DRAWINGS.
13. THE CONTRACTOR SEPARATE HIRE BY (	R SHALL COORDINATE ALL SUBCONTRACTORS UNDER OWNER TO MAINTAIN EFFICIENT, WORKMANLIKE PROG	HIS HIRE, AND SHALL COORDINATE WITH ANY SUBCONTRACTORS UNDER BRESS OF THE WORK. THE CONTRACTOR SHALL COORDINATE THE BUT, NOTCHED, OMITTED. BLOCKED OUT OR RELOCATED WITHOUT PRIOR	APPLICABLE STANDARDS FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARD, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80		BUILDING AREA:		22, 582 SF		1.3.3 SUPPLY & RETURN VENTS: PROVIDE (N) VENTS FOR ENCLOSED ROOM AS PART OF THE EXTENSION OF (E) DUCTS AS INDICATED ON THE DRAWINGS.
APPROVAL WITH THE 14. THE CONTRACTOR	E ARCHITECT. R AND SUBCONTRACTOR OF EACH TRADE SHALL KEEP	PREMISES CLEAN AT ALL TIMES AND SHALL REMOVE ALL RUBBISH AS	NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION		ZONING:		N/A		1.3.4 COMPRESSED AIR LINE: PROVIDE (N) COMPRESED AIR PIPING TO LOCATIONS AS INDICATED ON THE DRAWINGS.
15. PROTECTIVE MEAS 16. CONTRACTOR SHA	ALL PROTECT ALL EXISTING SURFACES, FINISHES, AND	TECT ADJACENT PROPERTY AT ALL TIMES DURING CONSTRUCTION. ITEMS TO REMAIN IN PLACE. PATCH EXISTING AREAS DAMAGED DURING	PARTIAL LIST OF APPLICABLE STANDARDS 2016, NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)		ACCESSIBILITY REC	l.: (	CBC 2019 CHAPTER 11B		1.3.5. EXHAUST FANS: PROVIDE (N) EXHAUST FANS FOR EQUIPMENTS AS INDICATED ON THE DRAWINGS.
DEMOLITION TO MAT 17. PLANS TO COMPLY CONSTRUCTION.		RUCTION AND DEMOLITION AND CBC CHAPTER 33 - SAFEGUARDS DURING	2016, NFPA 14 - INSTALLATION OF STANDPIPES AND HOSE SYSTEMS 2017, NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS 2016, NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.						<b>1.4 ELECTRICAL:</b> <b>1.4.1 DEMO:</b> REMOVE (E) LIGHTING SYSTEM AND POWER SYSTEM IN THE REMODELED AREAS.
NOTE: THE INTENT OF THE D	RAWINGS AND SPECIFICATIONS IS TO MODIFY THE FA	CILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA	2016, NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2016, NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES						1.4.2 ELECTRICAL SCOPE: PROVIDE (N) PANEL, POWER, AND OVERHEAD POWER REELS, DATA, AND AV TO PROPOSED LOCATIONS AS INDICATED ON THE DRAWINGS AND IN THE
CODE OF REGULATION NOT COMPLY WITH SA	NS. SHOULD ANY CONDITIONS DEVELOP NOT COVEREI	D BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL HANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL	*ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2020 EXCEPT THE EFFECTIVE DATE FOR THE USE C BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 8, 2019 AND THE EFFECTIVE DATE FOR THE USE C						SPECIFICATIONS. 1.4.3 LIGHTING: PROVIDE (N) LIGHT FIXTURES & CONTROL SYSTEMS TO PROPOSED
THE CALIFORNIA ENER	RGY CODE SECTION 10-103 REQUIRES ACCEPTANCE T	ESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL	CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 8, 2019. DIVISION OF STATE ARCHITECT REQUIREMENTS						LOCATIONS AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. <b>1.4.4 CIRCUITS</b> : PROVIDE (N) CIRCUIT WIRING TO (N) PANELBOARDS TO POWER EQUIPMENTS.
		ID BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A ED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY	1. A COPY OF PARTS 1 TO 5, TITLE 24. C.C.R. SHALL BE KEPT AT THE JOB SITE DURING CONSTRUCTION.						1.4.5 PANELBOARDS: PROVIDE AND INSTALL (N) PANELBOARDS WITH (N) FEEDERS TO (E) MAIN DISTRIBUTION BOARD.
LIGHTING CONTROLS	ACCEPTANCE TESTS MUST BE PERFORMED BY A CER	IFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).	<ol> <li>DIVISION OF STATE ARCHITECT (DSA) SHALL BE NOTIFIED AT THE START OF CONSTRUCTION PER 4-331.</li> <li>PROJECT INSPECTOR MUST BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA (SECTION 4-333(B)). THE DUTY OF THE INS SHALL BE IN ACCORDANCE WITH SECTION 4-342.</li> </ol>	SPECTOR					1.4.6 VOICE / DATA: PROVIDE (N) VOICE / DATA DROPS COMPLETE WITH CABLING TO NEAREST (E) IDF.
MECHANICAL SYSTEM OCTOBER 1, 2021.	ACCEPTANCE TESTS MUST BE PERFORMED BY A CER	TIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER	<ol> <li>ARCHITECT AND ENGINEER SHALL PERFORM THEIR DUTIES PER SECTION 4-333(A).</li> <li>SUPERVISION OF CONSTRUCTION BY DSA PER SECTION 4-334.</li> <li>ALL TESTS TO CONFORM TO SECTION 4-335 AND APPROVED T &amp; I SHEET/</li> </ol>						<b>1.4.7 FIRE ALARM:</b> PROVIDE (N) FIRE ALARM DEVICES AS REQUIRED AND CONNECT TO (E) FIRE ALARM SYSTEM.
ENVELOPE AND PROC RECORD OR THE OWN		ORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF	<ol> <li>ALL LESTS TO CONTROL SECTION 4:335 AND AFFROVED TO ISTELED REPORTS PER SECTION 4-336 AND 4-343.</li> <li>CONTRACTOR, INSPECTOR, ARCHITECT AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343.</li> <li>CONTRACTOR SHALL PERFORM HIS DUTIES PER SECTION 4-343.</li> </ol>						<b>1.5 PLUMBING:</b> PROVIDE (N) PIPING FROM (E) COLD WATER PIPING TO EQUIPMENT AS INDICATED ON THE DRAWINGS.
	ED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA. IDER-PROGRAM/ACCEPTANCE.	GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-	10. PER SECTION 4-317(C), THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATIONS, REHABILITATION OF RECONSTRUCTION IS TO BE PER TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS BE DISCOVERED WHICH IS NOT COVERED BY THE C	CONTRACT					1.6 STRUCTURAL SCOPE: 1.5.1 EQUIPMENT ANCHORS & SUPPORTS: PROVIDE ANCHORS AND SUPPORT, INCLUDING
		ENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.	DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CHANGE ORDER DETAILING THE REQUIRED BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK. 11. DSA IS NOT SUBJECT TO ARBITRATION.	) WORK SHALL	THE CURRENT PRO A#01-120300, APPRO		CERTIFICATION IS CONTINGENT UPON THE	CERTIFICATION OF	OVERHEAD REELS, AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. 1.5.2 (N) PARTITION: PROVIDE SLAB ANCHOR, WALL & CEILING ASSEMBLY, AS INDICATED ON
PROJECT INSPECTOR	S WILL COLLECT THE FORMS TO CONFIRM THAT THE F	EQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.			74701 120000,741140				THE DRAWINGS AND IN THE SPECIFICATIONS.
			DSA CERTIFICATION DATA						2.0 RESTROOMS 2.1 RESTROOM - DEMO: REMOVE & REPLACE BOTH MEN'S & WOMEN'S RESTROOM DOOR. REMOVE ADA STALL TOILET PARTITION AT WOMEN'S RESTROOM. REMOVE GRAB BARS AND TOILET ACCESSORIES.
DSA APP. #	PROJECT NAME		SCOPE	RCV'D. [	DATE APP. DATE	CLOSE DAT	E CERTIFICATION	NOTE	2.2 RESTROOM - NEW WORK: REPLACE DOORS FOR BOTH MEN'S AND WOMEN'S RESTROOM, PROVIDE TOILET PARTITION, GRAB BARS AND ACCESSORIES AS INDICATED ON THE DRAWINGS
01-116817 01-116961	Laney College Laney College	Alterations to 1-Parking Lot Alterations to 3-Elevators and Machine Rooms		6/19/2017 9/28/2017			ACS Review Only	N/A N/A	AND IN THE SPECIFICATIONS.
01-119005	Laney College		n Housing, 6-Classroom Buildings (Relocatable) - Interim Housing, 2-Toilet Buildings (Relocatable) - Interim	6/16/2020	12/24/2020			N/A	<ul> <li><u>3.0 EXTERIOR COURTYARD SCOPE</u></li> <li><u>3.1 CANOPY</u>: PROVIDE DSA-APPROVED STEEL CANOPY AS INDICATED ON THE DRAWINGS AND IN</li> </ul>
01-119493	Laney College	Additions to 1-Theater Building - lobby extension; Alterations	to 1-Theater Building - curtain wall, new elevator, restroom, lobby, auditorium, theater, av, classrooms, labs, hva					N/A	<ul> <li>THE SPECIFICATIONS.</li> <li><b>3.2 CANOPY FOOTING:</b> PREPARE GROUND AND PROVIDE FOOTING REQUIRED FOR DSA-</li> </ul>
01-119215 01-118764	Laney College Laney College	Construction of 1-Library and Learning Resource Center Construction of 1-Scoreboard		12/11/2020 1/24/2020	6/10/2020	7/9/2021	#1-Certification & Close of File	N/A N/A	APPROVED STEEL CANOPY. <b>3.2 PAVING</b> : PREPARE GROUND AND PROVIDE (N) ON-GRADE CONCRETE PAVING.
01-119058 01-119072	Laney College	Alterations to 1-Student Center Alterations to 1-Site Improvement		11/10/2020 8/2/2020	3/11/2021 8/20/2020		ACS Review Only	N/A	3.4 ELECTRICAL SCOPE: PROVIDE ELECTRICAL RECEPTACLES AS INDICATED ON THE DRAWINGS.
01-119562	Laney College	Alterations to 1-Building E		6/14/2021	0/20/2020				-
01-119744 01-120289	Laney College Laney College	Alterations to 1-Locker Room (below the Central Plaza), 1-Pa Alterations to 1-(E) Art Building Room 18 from Sculpture Wo	•	9/20/2021				APPLICABLE	
01-110487 01-110209	Laney College	Alterations to 1-Administration Building highrise Alteration to 1-Bldg G Wood Technology and Carpentry		3/10/2009 11/13/2008	5/19/2010	8/7/2013 7/15/2013	#1-Certification & Close of File #1-Certification & Close of File	N/A N/A	DEFFERRED ITEMS
01-107588	Laney College	Alteration to (1) Classroom Building		10/12/2005		8/8/2012	#1-Certification & Close of File	N/A	
01-108015 01-107246	Laney College Laney College	Construction of Elevator Tower Alteration to Student Service Alteration to (1) Cafeteria Building	s Building 'A'	5/1/2006 6/8/2005	11/28/2005	7/5/2011	#5-Resolution of Certification	N/A N/A	NONE.
01-106207 01-106719	Laney College Laney College	Alteration to Theater Building - Sprinkler & Standpipe Upgrad Construction of Modular Art Building w/ Covered walkway &		4/21/2004	7/28/2005	4/11/2013 4/3/2013	#1-Certification & Close of File #2-Certification & Close of File Per EDU	N/A APPLICABLE	
01-102781	Laney College	Alterations to Bldg. F.		5/8/2000	8/2/2000	9/25/2008	#1-Certification & Close of File	N/A	-
01-103129 01-103507	Laney College Laney College	Alterations to: Administration Building, 7th Floor, Room T-75 Reconstruction of: Exterior Upper Level Pedestrain Surfaces		8/17/2000 2/8/2001	6/20/2001	8/15/2014	#2-Certification & Close of File Per EDU	N/A N/A	-
01-110941 01-106804		Alterations to 1-Administration Building hvac and lighting Construction of Temporary access ramp to (E) tennis court		9/23/2009 1/24/2005	1/14/2010 3/21/2005	6/24/2013	#1-Certification & Close of File	N/A N/A	
01-113827	Ramp Laney College - Best Center	Construction of 1-Best center/ Classroom Building		12/23/2013	10/22/2014	5/27/2020	#1-Certification & Close of File	N/A	
01-110972	Laney College - Peralta C.C.D.	Construction of 1-site preparation, new parking, utilities, elec	tr., 1-baseball field with dugouts, bullpens, scoreboard, scorekeepers booth, bleachers, 1-Field Building	10/14/2009	3/9/2010	5/10/2013	#1-Certification & Close of File	N/A	
01-113475 01-111245	Laney College - Peralta C.C.D. Laney College ADA Barrier Removal &		s. [Theater, Library, Gymnasium, Bldgs: A,B,F, G]; Construction of 2-Free standing Elevators (near Forum and	6/21/2013 3/22/2010	9/3/2013 9/9/2010	9/4/2014 4/12/2016	#1-Certification & Close of File #1-Certification & Close of File	N/A N/A	- Cake Merritt Blvd - take Merritt Blvd
01-111147	Compliance Upgrade Laney College Student Center	Bldg.G) Additions to 1-Student Service Center Building; Alterations to	o 1-Student Service Center Building	1/27/2010	6/8/2012			N/A	Madison Park
01-119054	Laney College Student Center Renovation	Laney College Student Center Renovation						N/A	a de la contra park
01-110111	Laney College - Peralta C.C.D.	Alteration to 11-Men's restrooms for entire campus		9/25/2008	1/22/2009	2/8/2013	#1-Certification & Close of File	APPLICABLE	900 FALLON STREET, OAKLAND, CA 94607
01-110373 01-110305	Laney College - Peralta C.C.D. Laney College - Peralta C.C.D.	Alterations to 1-Building E Alterations to 2-Women's Toilet Buildings		1/22/2009 12/22/2008		3/15/2012 8/31/2012	#1-Certification & Close of File #1-Certification & Close of File	N/A APPLICABLE	The state of the s
01-110346 01-109654	Laney College - Peralta C.C.D. Laney College - Peralta C.C.D.	Alteration to (1) Classroom Building Alteration to Shower at the Quad.		1/8/2009 4/8/2008	3/25/2009 10/17/2008	12/1/2012 1/24/2013	#1-Certification & Close of File #1-Certification & Close of File	N/A N/A	
01-110013	Laney College - Peralta C.C.D.	Alteration to (1) Welding Lab		8/6/2008	1/28/2009	4/17/2013	#1-Certification & Close of File	N/A	The laney College and the second seco
01-111331 01-111423	Laney College - Peralta C.C.D. Laney College - Peralta C.C.D.	Construction of 2-Site prep TV Building/ Office Buildings Alterations to 4-40'x40' Classroom Buildings (Relocatable); F	Relocation of 1-24'x40'Classroom Building (Relocatable)	5/4/2010 6/17/2010	9/2/2010 9/27/2010	3/9/2015 4/19/2012	#2-Certification & Close of File Per EDU #1-Certification & Close of File	N/A N/A	- The Area Chind
01-114390 01-114100	Laney College - Peralta C.C.D. Laney College - Peralta C.C.D.	Alterations to 1-Administration Building door replacements Alterations to 1-child care center		8/28/2014 5/8/2014	11/5/2014 5/29/2014	8/12/2015 12/28/2015	#1-Certification & Close of File #1-Certification & Close of File	N/A N/A	
01-111140	Laney College - Peralta C.C.D.	Relocation of 4-Classroom Buildings (Relocatable)		1/26/2010	1/26/2010	11/9/2010	#1-Certification & Close of File	N/A	
01-112938 01-113468	Laney College - Peralta C.C.D. Laney College - Peralta C.C.D.	Construction of 1-rooftop solar PV panels Construction of 1-Synthetic athletic track		10/23/2012 6/19/2013	3/21/2013 6/19/2013	1/31/2014	#1-Certification & Close of File	N/A N/A	
01-109605 01-109295	Laney College - Peralta Comm. C.D. Laney College - Peralta Comm. C.D.	Alteration to 1-Women's Restroom #F110 at Building F Alteration to 1-Student Service Center Building		3/25/2008 12/7/2007	4/7/2008 3/7/2008	1/9/2013 10/16/2013	#1-Certification & Close of File #2-Certification & Close of File Per EDU	N/A N/A	Emborcadero West
01-108426	Laney Community College	Alteration to Kit. Bldg 'E'		11/27/2006	4/17/2007	9/22/2011	#1-Certification & Close of File	N/A	Embarcadero Edito So Contenante
01-108055 01-108270	Laney Community College Laney Community College	Alteration to Student Center - Cyber Café Construction of Weight Room adjacent to Building 'C'		5/15/2006 8/29/2006	11/13/2006			N/A N/A	Estuar Part
01-109201	Laney Community College (Peralta Community Colleg District)	Relocation of 7 -36'x40' Relocatable C.R. Bldg/s and 1-12'x4	0' Relocatable Toilet Bldg.	10/23/2007	11/28/2007	7/25/2013	#2-Certification & Close of File Per EDU	N/A	aguidi certer aguidi certer ya Are bar Sa aguidi certer ya Are bar Sa Are bar Sa Are Are Are Are Are Are Are Are Are Are
01-108017 01-114587	,	Alteration to (1) Forum building and (1) Lecture room building Alterations to 1-Laney Tower	g	5/1/2006	7/30/2015	5/16/2017	#1-Certification & Close of File	N/A N/A	Embarcadoro territoria de la companya de la compa
UI-II400/	Laney Tower, Laney College			1/12/2015	1/30/2015	ט וט/2017	#1-Certification & Close of File	IN/A	Embarcadero

# PERALTA COMMUNITY COLLEGE DISTRICT

## 900 FALLON STREET, OAKLAND, CA 94607 CLIENT PROJECT NO. 2122170 DSA APP 01-120289

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 01-120289 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: \_\_\_\_ 6/12/2023

APPROVAL STAMP:



ISSUED FOR DSA SUBMITTAL V4 5.22.2023

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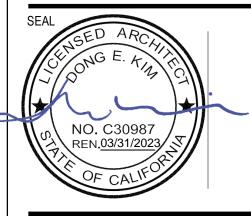
REPORT INCONSISTENCIES AND OMISSIONS TO THE CONSULTANT FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK. DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE.

ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607

Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

MECHANICAL ENGINEER H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 email:

ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:



PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

#### COVER SHEET

DRAWN: AD PLOT DATE: 3/2/2023 4:30:15 PM

CHECKED: DK

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COVER SHEET

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AD3.01

SHEET INDEX

-GENERAL-

#### **DEMOLITION RCP - OVERALL** DEMOLITION RCP - FABRICATION WORKSHOP -ARCHITECTURAL-

DEMOLITION FLOOR PLAN - RESTROOM

A2.00	OVERALL PLAN
A2.00	FLOOR PLAN - FABRICATION WORKSHOP
A2.10	FLOOR PLAN / INTERIOR ELEVATIONS - RESTROOMS
A2.11	FLOOR PLAN - CANOPY
A3.00	RCP - OVERALL
A3.01	RCP - FABRICATION WORKSHOP - LOWER CEILING ROOMS
A3.02	RCP - FABRICATION WORKSHOP - UPPER CEILING
A4.00	INTERIOR SECTIONS
A5.00	DETAILS - WALLS AND CEILING
A5.01	DETAILS - DOORS. WINDOW AND MISC.
A5.03	DETAILS - CEILING ANCHOR
A5.04	DETAILS - WALL, AND FLOOR ANCHOR
A5.10	DETAILS - EXTERIOR
A5.20	DETAILS - ACCESSIBILITY
A7.00	INTERIOR ELEVATIONS
A9.00	EQUIPMENT PLAN
A9.10	POWER/DATA & INFRASTRUCTURE PLAN
A9.20	FURNITURE PLAN & FINISH AXON
	-STRUCTURAL-

-011/00101/

S0.01	STRUCTURAL NOTES / TYPICAL DETAILS
S0.02	TYPICAL DETAILS
S1.01	FOUNDATION PLAN
S1.02	CEILING FRMG. PLAN
S1.03	ROOF FRMG. PLAN
S2.01	DETAILS

#### -MECHANICAL-

M0.01	MECHANICAL COVER SHEET & SCHEDULE
M0.02	MECHANICAL SCHEDULES
M1.00	MECHANICAL CONSTRUCTION PLAN

#### -PLUMBING-

P0.01	PLUMBING GENERAL NOTES AND LEGEND
P0.02	PLUMBING SHEET SPECIFICATIONS
P0.03	PLUMBING CONSTRUCTION PLAN

#### -FIRE PROTECTION-

AN
DLS

#### -ELECIRICAL-

E0.01	ELECTRICAL SYMBOLS, NOTES AND SCHEDULES
E0.02	ELECTRICAL DETAILS
E0.03	ELECTRICAL DETAILS
E2.01	FABRICATION WORKSHOP DEMO PLAN
E2.02	ELECTRICAL LIGHTING PLAN FAB WORKSHOP
E3.01	FAB WORKSHOP POWER AND SIGNAL PLAN
FA0.01	FIRE ALARM SYMBOLS, NOTES AND SCHEDULES
FA0.02	FIRE ALARM RISER DIAGRAM
FA0.03	FIRE ALARM CALCULATION
FA0.04	FIRE ALARM IDNET ADDRESS SCHEDULE
FA1.01	FIRE ALARM OVERALL PLAN
FA2.01	FAB WORKSHOP FIRE ALARM SYSTEM PLAN

#### -PC CANOPY STRUCTURE-

S1	FOUNDATION PLAN, GENERAL NOTES, DETAILS
S2	ROOF FRAMING PLANS
S3	SECTIONS, TYP. ELEVATION, DETAILS
S4	SECTIONS, TYP. ELEVATION, DETAILS

TOTAL SHEET COUNT: 61

#### SYMBOL LEGEND

ANNOTATION SYMBOLS				
ANNUTATION STMBC				
	DETAIL NUMBER REFERENCE			
0 REF	SIM / TYP / REV			
A00.00	PLAN DETAIL REFERENCE			
$\smile$	DRAWING NUMBER			
_	SECTION NUMBER			
	REFERENCE			
0 REF	SIM / TYP / REV			
A00.00	BUILDING SECTION REFERENCE			
Ref	REFERENCE SIM / TYP / REV			
0	ELEVATION NUMBER			
A00.00	EXTERIOR ELEVATION REFERENCE			
	DRAWING NUMBER			
0 REF	DRAWING NUMBER REFERENCE			
REF	SIM / TYP / REV			
0 (A00.00) 0	INTERIOR ROOM ELEVATION REFERENCE			
0 REF	ELEVATION NUMBER			
$\frown$				
(0)	GRID TAG			
NAME	LEVEL NAME			
100 000	LEVEL TAG			
~	LEVEL ELEVATION			
\$1.1000				
	SPOT ELEVATION TAG			
$\mathbf{\Psi}$				
	ROOM NAME			
0000	ROOM TAG			
	ROOM NUMBER			
0000A	DOOR NUMBER TAG			
<b>1</b> i	WINDOW TAG			
$\checkmark$				
AREA UNDER	REVISION TAG			
00 REVISION				
PROJECT				
NORTH				
	NORTH INDICATOR			
• •				
_				
MATCHLINE	MATCHLINE			
	CONTINUATION OF VIEW			
ASSEMBLY SYMBOLS	5			
$\langle F1 \rangle$	FLOOR ASSEMBLY TAG			
W10a	WALL / PARTITION ASSEMBLY TAG			
<u> </u>				
C00	CEILING ASSEMBLY			
2600	CEILING ASSEMBLY TAG			
	CEILING HEIGHT A.F.F.			
$\langle R1 \rangle$	ROOF ASSEMBLY TAG			
FINISHES SYMBOLS				
FINISHES SYMBOLS	FINISH TYPE TAG			
	FINISH TYPE TAG MILLWORK TYPE TAG			
	MILLWORK TYPE TAG			
	MILLWORK TYPE TAG WIDTH HEIGHT			
	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG			
	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH			
	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG			
	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG			
	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG ACCESSORY TYPE TAG			
	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG ACCESSORY TYPE TAG TRANSITION STRIP TAG			
C1 D EQ000 SD TS - 01	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG ACCESSORY TYPE TAG TRANSITION STRIP TAG			
C1 D EQ000 SD TS - 01 FIRE SEPARATION LE	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG ACCESSORY TYPE TAG TRANSITION STRIP TAG			
C1 D EQ000 SD TS - 01 FIRE SEPARATION LE	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG ACCESSORY TYPE TAG TRANSITION STRIP TAG			
C1 D EQ000 SD TS - 01 FIRE SEPARATION LE	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG ACCESSORY TYPE TAG TRANSITION STRIP TAG			
C1 D EQ000 SD TS - 01 FIRE SEPARATION LE	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG ACCESSORY TYPE TAG TRANSITION STRIP TAG GEND 2 HOUR FIRE RATING 1.5 HOUR FIRE RATING			
C1 D EQ000 SD TS - 01 FIRE SEPARATION LE	MILLWORK TYPE TAG WIDTH HEIGHT DEPTH EQUIPMENT TYPE TAG ACCESSORY TYPE TAG TRANSITION STRIP TAG SEND 2 HOUR FIRE RATING			

SMOKE SEPARATION

#### ABBREVIATION LEGEND

&	AND
@	AT
AB	ANCHOR BOLT
ADA ACC ADJ	
AFF	ABOVE FINISHED FLR
ALUM	ALUMINUMM
ANOD.	ANODIZED
BLDG	APPROXIMATE BUILDINGS
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRKT	BRACKET
CAB'T	CABINET
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CNTRSNK	COUNTERSINK
CONC	CONCRETE
CONTR CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
DBL	DOUBLE
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA(or <b>φ</b> )	DIAMETER
DIM	DIMENSION
DR	DOOR
DWG	DRAWING
(E)	EXISTING
ÈÁ	EACH
EL	ELEVATION HEIGHT
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
E/S	EACH SIDE
EXT	EXTERIOR
FD	FLOOR DRAIN
FF FHWS	FINISHED FLOOR
FIN	FINISH FLASHING
FOC	FACE OF CONCRETE FACE OF STUD
GA	GAUGE
GALV	GALVANIZED
GL GSM	GALVANIZED GLASS GALVANIZED SHEET METAL
GWB	GYPSUM WALL BOARD
HDWR HGR	HARDWARE
HORIZ HT	HEIGHT
HM	HOLLOW METAL
ID	INSIDE DIAMETER
I.D.F.	INTERMEDIATE DISTRIBUTION FRAME
I.S.A	INTERNATIONAL SYMBOL OF ACCESSIBILITY
JT	JOINT
LAV	LAVATORY
LS Ó	POUNDS LAG SCREW
LT	LIGHT
LAM	LAMINATED
MAX	MAXIMUM
M.B.	MACHINE BOLT
M.E.	MATCH EXISTING
MTL	METAL
MI	MIRROR IMAGE
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIMESION
OPNG	OPENING
OPP	OPPSITE
O/	OVER
PART'N	PARTITION
PHWS	PAN HEAD WOOD SCREWS
PL	PLATE PLASTIC LAMINATE
	PLYWOOD PAINT
PNTD	PAINTED
PTD	PAPER TOWEL DISPENSER
PTDG PR	
REINF REQ'D	
RHWS	ROUND HEAD WOOD SCREW
RO	ROUGH OPENING
RWD	REDWOOD RAIN WATER LEADER
SAC S.E.D.	SUSPENDED ACOUSTIC CEILING
SCHED SGL	
SHT	SHEET
	SEE LANDSCAPE DRAWINGS
SMS	SHEET METAL SCREWS
SL	SLOPE
SLDG	SLIDING SEE PLUMBING DRAWINGS
	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STL STRUC	STEEL
T T TEMP	TEMPERED TEMPORARY
TEMP	TEMPORARY
THK	THICK
TJ	TOOLED JOINT
TWS	TACKABLE WALL SURFACE
TYP.	TYPICAL
U.C.	UNDERCUT
U.O.N.	UNI ESS OTHERWISE NOTED
U.O.N.	UNLESS OTHERWISE NOTED
W/	WITH
WC	WATER CLOSET
WD	WOOD
WDO	WINDOW
WDO	WINDOW
WF	WIDE FLANGE
VERT	VERTICAL

APPROVAL STAMP:



ISSUED FOR DSA SUBMITTAL V4 5.22.2023

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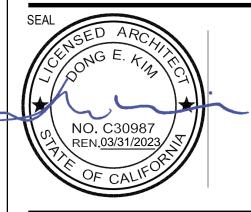
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Tel: 510.452.3224 e-mail: **STRUCTURAL ENGINEER** TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

MECHANICAL ENGINEER H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 email:

ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:



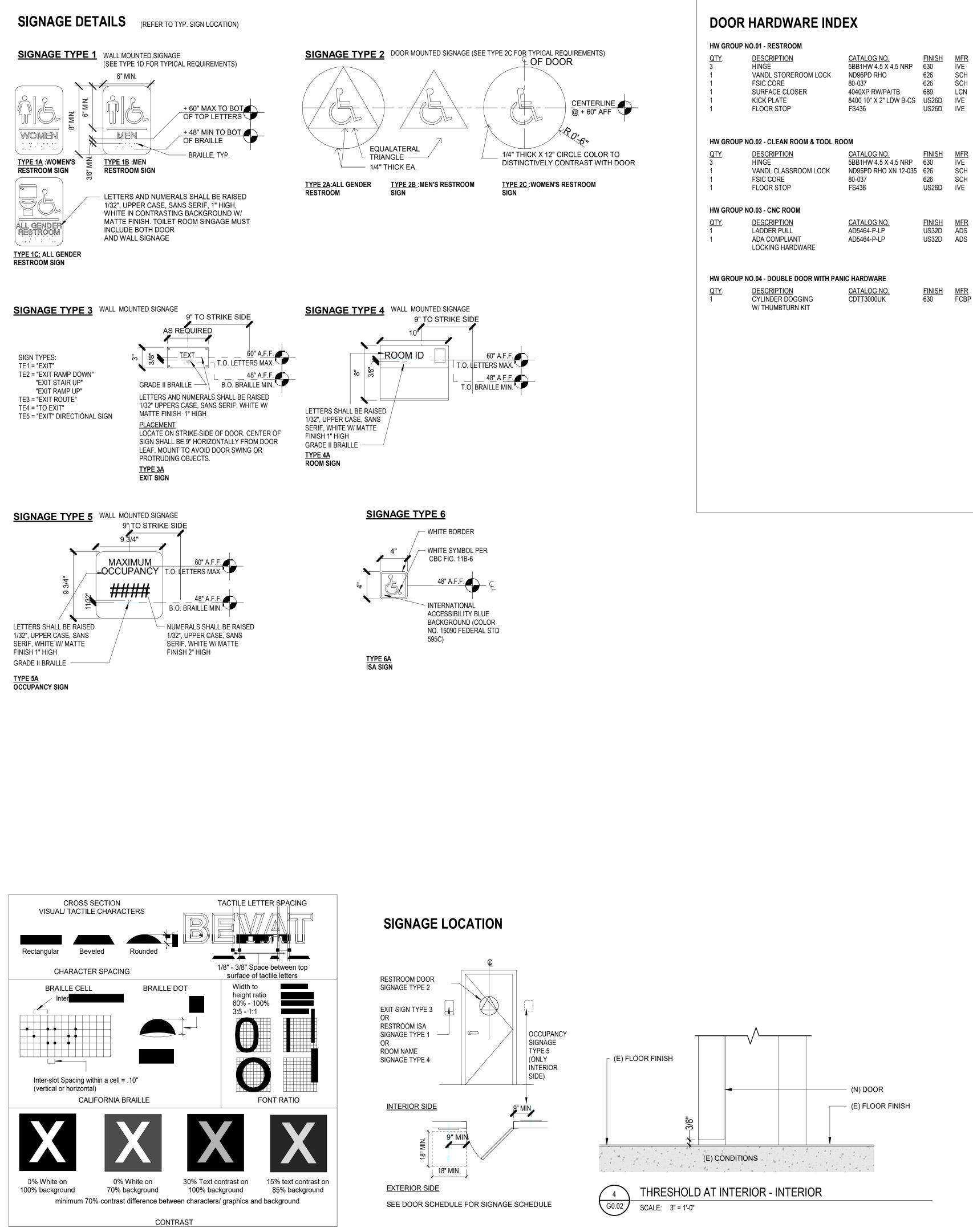
PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

ABBREVIATION AND SYMBOL

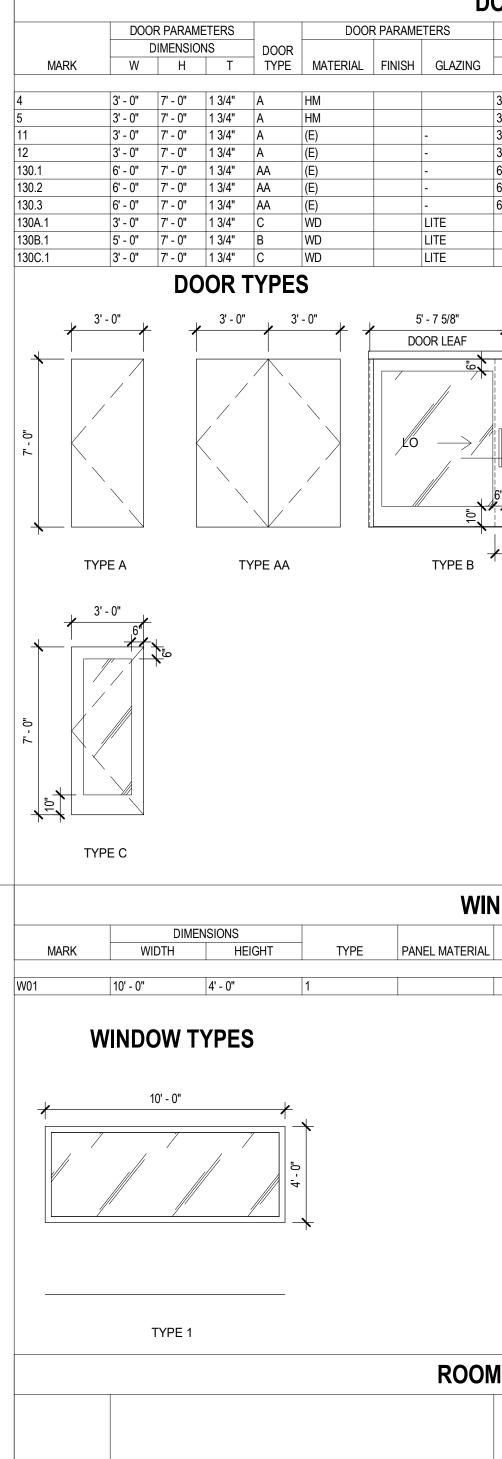
DRAWN: AD PLOT DATE: 3/2/2023 4:30:16 PM CHECKED: DK

G0.01

#### CA100024 - 2005082



3 1 1 1 1	HINGE VANDL STOREROOM LOCK FSIC CORE SURFACE CLOSER KICK PLATE FLOOR STOP	5BB1HW 4.5 X 4.5 NRP ND96PD RHO 80-037 4040XP RW/PA/TB 8400 10" X 2" LDW B-CS FS436	630 626 626 689 US26D US26D	IVE SCH SCH LCN IVE IVE
HW GROL	JP NO.02 - CLEAN ROOM & TOOL R	ООМ		
<u>QTY</u> . 3 1 1 1	DESCRIPTION HINGE VANDL CLASSROOM LOCK FSIC CORE FLOOR STOP	<u>CATALOG NO.</u> 5BB1HW 4.5 X 4.5 NRP ND95PD RHO XN 12-035 80-037 FS436	<u>FINISH</u> 630 626 626 US26D	MFR IVE SCH SCH IVE
HW GROU	JP NO.03 - CNC ROOM			
<u>QTY</u> . 1 1	DESCRIPTION LADDER PULL ADA COMPLIANT LOCKING HARDWARE	<u>CATALOG NO.</u> AD5464-P-LP AD5464-P-LP	<u>FINISH</u> US32D US32D	<u>MFR</u> ADS ADS
HW GROL	JP NO.04 - DOUBLE DOOR WITH PA	NIC HARDWARE		
<u>QTY</u> . 1	DESCRIPTION CYLINDER DOGGING	CATALOG NO. CDTT3000UK	<u>FINISH</u> 630	<u>MFR</u> FCB

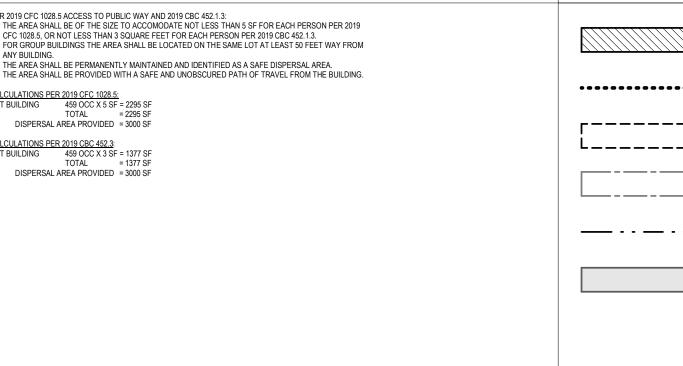


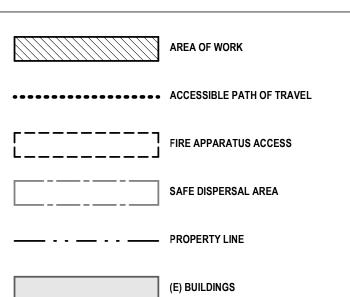
DOOR SCHEDULE	
DOOR PARAMETERS     DOOR PARAMETERS     DOOR PARAMETERS     OPENING PARAMETERS       DIMENSIONS     DOOR     DIMENSIONS     FRAME     FRAME     HARDWARE	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
MARK         W         H         T         TYPE         MATERIAL         FINISH         GLAZING         W         H         TYPE         MATERIAL         FINISH         FRR         GROUP         COMMENTS           4         3' - 0"         7' - 0"         1 3/4"         A         HM         3' - 4"         7' - 2"         F1         HM         1         1	APP: 01-120289 INC: REVIEWED FOR
4       5 - 0       7 - 0       13/4"       A       HM       5 - 4       7 - 2       F1       HM       1       1         5       3' - 0"       7' - 0"       13/4"       A       HM       3' - 4"       7' - 2"       F1       HM       1       1         11       3' - 0"       7' - 0"       13/4"       A       (E)       -       3' - 4"       7' - 2"       (E)       -       (E) NO SCOPE         12       3' - 0"       7' - 0"       13/4"       A       (E)       -       3' - 4"       7' - 2"       (E)       -       (E) NO SCOPE         130.1       6' - 0"       7' - 0"       13/4"       A       (E)       -       6' - 4"       7' - 2"       (E)       E)       -       (E) NO SCOPE         130.1       6' - 0"       7' - 0"       13/4"       AA       (E)       -       6' - 4"       7' - 2"       (E)       E)       -       (E) NO SCOPE         130.2       6' - 0"       7' - 0"       13/4"       AA       (E)       -       6' - 4"       7' - 2"       (E)       -       4       ADD DOGGING DEVICE         130.3       6' - 0"       7' - 0"       13/4"       AA       (E)<	SS I FLS ACS I DATE: <u>6/12/2023</u>
3-0"     3-0"     3-0"     5-75%     5-0"       DOOR LEAF     CLEAR OPENING     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     Image: Clear opening     Image: Clear opening       Image: Clear opening     I	<text><text></text></text>
TYPE C	
WINDOW SCHEDULE	IMPERIAL THIS DRAWING IS COPYRIGHTED AND MUST NOT BE
MARK     DIMENSIONS       WIDTH     HEIGHT       TYPE     PANEL MATERIAL       PANEL FINISH     FRAME       FRAME     FRAME       FRAME     FRAME       W01     10'-0"       10'-0"     1	THIS DRAWING IS COPYRIGHTED AND MUST NOT BE USED, REPRODUCED, OR REVISED WITHOUT WRITTEN PERMISSION. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. VERIFY DIMENSIONS. DO NOT SCALE THIS DRAWING. REPORT INCONSISTENCIES AND OMISSIONS TO THE CONSULTANT FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK. DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE. ARCHITECT & PRIME CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE. ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607 Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail: MECHANICAL ENGINEER H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621
ROOM FINISH SCHEDULE	Tel: 510.569.2000 email: ELECTRICAL ENGINEER
ROOM #         ROOM NAME         F1         B1         O         (E)         FR.1         (E)	WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail: SEAL SEAL CHNSED ARCANT NO. C30987 REN.03/31/2023
MATERIALS & FINISHES         VALL         Image: Description: ABUSE RESISTANT GYP BOARD: COLOR, FINISH & COATING: PM-2 WHITE, EGGSBHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR         Image: Description: PM-2 WHITE, EGGSBHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR         Image: Description: PM-2 WHITE, EGGSBHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR         Image: Description: PM-2 WHITE, EGGSBHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR         Image: Description: PM-2 WHITE, EGGSBHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR	PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607 SCHEDULES
PT-2       DESCRIPTION: ABUSE RESISTANT GYP BOARD COLOR, FINISH & COATING: PM-2 WHITE, EGGSHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR       DESCRIPTION: WALL PANELING COLOR, FINISH & COATING: WHITE, MW1 BUTTJOINED PRODUCT INFO: CLARIDGE LCS PORCELAIN MARKER WALL REMARKS: INTERIOR       B1         DESCRIPTION: RUBBER BASE COLOR, FINISH & COATING: WHITE, INTERIOR       DESCRIPTION: RUBBER BASE COLOR, FINISH & COATING: 123 CHARCOAL, 4 NO TOE PRODUCT INFO: ROPPE 700 REMARKS: INTERIOR       DESCRIPTION: RUBBER BASE COLOR, FINISH & COATING: 123 CHARCOAL, 4 NO TOE PRODUCT INFO: ROPPE 700 REMARKS: INTERIOR	DRAWN: AD CHECKED: DK PLOT DATE: 3/2/2023 4:30:20 PM GGOLOZ
DESCRIPTION: ACOUSTICALLY ENHANCED GYP BOARD COLOR, FINISH & COATING: PM-2 WHITE, EGGSHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR	CA100024 - 2005082 C:\Users\asubagyo\OneDrive - DIALOG\Documents\DLG_2005082_AR_PCCD FabLab_asubagyo.rvt











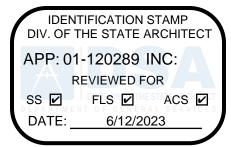
LEGEND

#### **KEYNOTE LEGEND**

Key Value

Keynote Text

EXISTING FIRE HYDRANT. 0260 EXISTING FDC. 0262 0266 EXISTING EXTERIOR RAMP, SEE G0.12, DSA APP#01-106719 EXISTING ACCESSIBLE GATE PROVIDE (N) KICKPLATE, REFER TO 2/G0.10, DSA APP#01-106719



APPROVAL STAMP:



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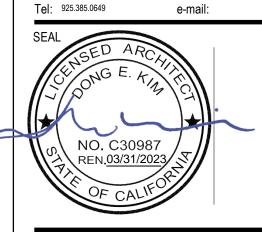
email:

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Tel: 510.894.2984 e-mail: MECHANICAL ENGINEER 8517 EARHART RD., #230

OAKLAND, CA 94621 Tel: 510.569.2000

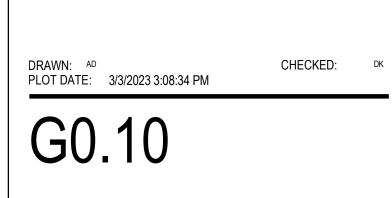
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PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

FIRE ACCESS AND EGRESS



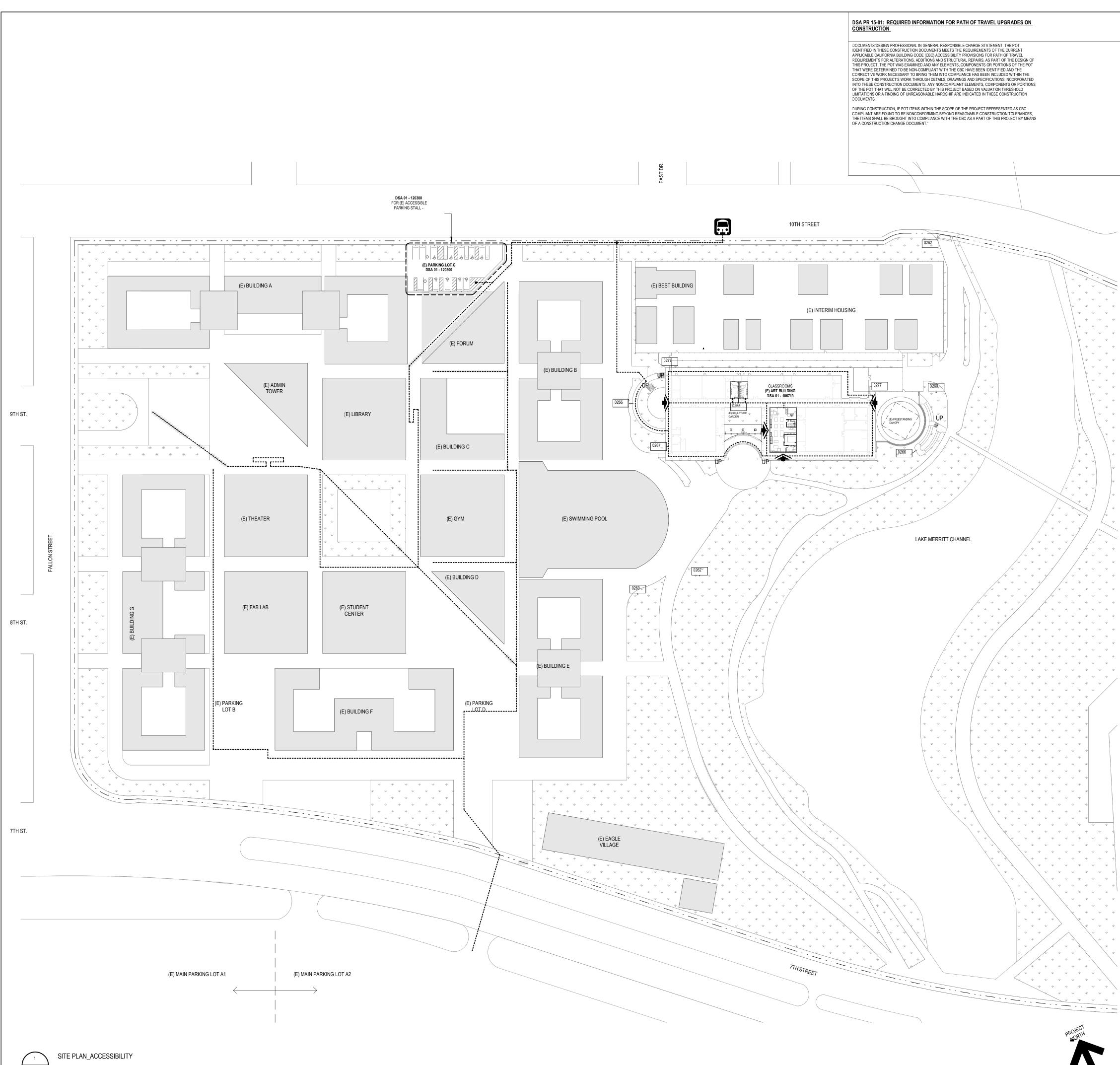
(E) ACCESSIBLE GATE





(E) CHAINLINK GATE SCALE: 12"T=S1'-0"

CA100024 - 2005082



SCALE: 1/64" = 1'-0"

#### **KEYNOTE LEGEND**

	Key Value			Keynote Text		
	0260	EXISTING FIRE HYDRANT	-			
	0262	EXISTING FDC.	•			
	0265	EXISTING HI/LO DRINKING	G FOUNTAIN D	)SA APP#01-10	6719	
	0266	EXISTING EXTERIOR RAN				
	0267	EXISTING ACCESSIBLE P				06719
	0277	EXISTING ACCESSIBLE G APP#01-106719				
		PARKING CALCULA	TIONS			
	PARKING SPACES		STALL T	YPE		REQUIRED
			STANDARD	ACCESSIBLE		
				STANDARD	VAN	-
	LANEY COLLEGE PARKING LOT A1 (*1) - USER GROUP: STAFF		180	0	D	180
	LANEY COLLEGE PARKING LOT A2 (*1) - USER GROUP: STUDENT	* & VISITOR	700	19	5	724
	LANEY COLLEGE PARKING LOT B (*1, 2) - USER GROUP: STAFF, S	TUDENT &	STAFF: 4	STAFF: 5	STAFF: 1	
	VISITOR		STU/VIS: 4	STU/VIS: 6	STU/VIS: 1	- 21
	LANEY COLLEGE PARKING LOT C (*1) - USER GROUP: STAFF - DSA #110111 & #120300		3	7	2	12
	LANEY COLLEGE PARKING LOT D (*3) - USER GROUP: N/A - DSA# 119215		-	-		0
TOTAL PROVIDED		STAFF: 187	STAFF: 12	STAFF: 3	STAFF: 202	
			STU/VIS: 187	STU/VIS: 25	STU/VIS: 6	STU/VIS: 735
	TOTAL REQUIRED (*1)			STAFF: 5	STAFF: 2	STAFF: 7
			N/A			

STU/VIS: 12

STU/VIS: 3

STU/VIS: 15

\*1. LOT A1 DOES NOT MEET THE MINIMUM NUMBER OF ACCESSIBLE PARKING SPACE REQUIREMENTS PER 11B-208.2 AND USE ADDITIONAL ACCESSIBLE PARKING SPACES IN LOTS B & C TO SATISFY THE REQUIREMENTS. THEREFORE, CURRENTLY PROVIDED NUMBER OF ACCESSIBLE PARKING SPACES IN ANY LOTS SHALL NOT BE REDUCED IN FUTURE EVEN IF THE CAMPUS WIDE TOTAL NUMBER OF ACCESSIBLE RKING SPACES EXCEED THE MINIMUM REQUIREMENTS.

\*2. LOT B IS SHARED USE BY STAFF AND STUDENT/VISITOR, AND NUMBER OF ACCESSIBLE PARKING SPACES ARE ASSUMED TO BE SPLIT EQUALLY (50/50).

\*3. LOT D WILL BE REMOVED IN PREPARATION FOR THE FUTURE LIBRARY EXPANSION PROJECT (A# 119215). THESE SIX ADA STALLS WILL BE RELOCATED TO LOT B.

REFERENCE: DSA #01-120300

#### CODE ANALYSIS

PROJECT: BUILDING: LOCATION: OWNER: DATE OF CONSTRUCTION: OCCUPANCY CLASSIFICATION: BUILDING TYPE: SPRINKLERS: BUILDING AREA:

ZONING:

ACCESSIBILITY REQ.:

FABRICATION LAB RELOCATION ART BUILDING 900 FALLON STREET, OAKLAND, CA 94607 PERALTA COMMUNITY COLLEGE DISTRICT 2005 V-B YES, AUTOMATIC SPRINKLERED 22, 582 SF N/A CBC 2019 CHAPTER 11B

#### SITE NOTES

ACCESSIBLE ROUTE AS INDICATED SHALL BE A BARRIER-FREE PATH WITHOUT ANY ABRUPT VERTICAL CHANGES IN LEVEL EXCEEDING 1/4" VERTICAL PER CBC 11B-303. 2. MAXIMUM CROSS-SLOPE SHALL NOT EXCEED 2% UNLESS OTHERWISE INDICATED SLIP-RESISTANT SURFACE. THE CONTRACTOR SHALL VERIFY THAT ALL BARRIER ON THE INDICATED PATH OF TRAVEL COMPLY WITH CBC-206 ACCESSIBLE ROUTES. RUNNING SLOPE AT WALKWAYS SHALL BE 5% MAXIMUM. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT EXCEED 1/2" IN WIDTH ALONG THE DOMINANT DIRECTION OF TRAVEL PER CBC 11B-302. WALKWAYS AND SIDEWALKS ALONG THE ACCESSIBLE PATH OF TRAVEL SHALL BE MINIMUM 48" IN 5. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS 12" MAXIMUM WHEN LOCATED 27" MINIMUM AND 80" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND WHERE A SIGN OR OTHER OBSTRUCTION IS MOUNTED BETWEEN POSTS OR PYLONS AND THE CLEAR DISTANCE BETWEEN THE POSTS OR PYLONS IS GREATER THAN 12". THE LOWEST EDGE OF SUCH SIGN OR OBSTRUCTION SHALL BE 27" MAXIMUM OR 80" MINIMUM ABOVE THE FINISH FLOOR OR GROUND PER CRC 118-307. 6. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS WITHIN THE PATH OF TRAVEL SHALL BE CORRECTED BY THE ARCHITECT UNDER THIS APPLICATION. 7. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

LEGEND

ACCESSIBLE ENTRANCE  $\Rightarrow$ 

BUS STOP

POINT OF ARRIVAL

•••••• ACCESSIBLE PATH OF TRAVEL

----- PROPERTY LINE



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#### ARCHITECT & PRIME CONSULTANT DIALOG

email:

681 4th STREET OAKLAND, CA, 94607 Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER

TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

#### MECHANICAL ENGINEER H&M MECHANICAL

8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000

ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, IN

3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:

SEAL

#### PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

#### SITE PATH OF TRAVEL

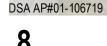
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G0.11

CA100024 - 2005082







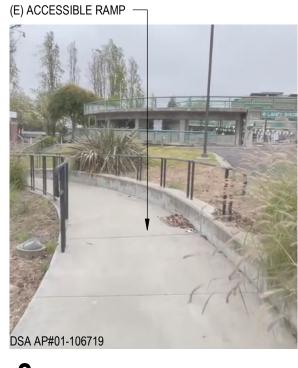
(E) ACCESSIBLE PÁTH OF TRAVEL











2

(E) ACCESSIBLE PATH OF TRAVEL



9 ± 44" MIN.







± 44" MIN.



(E) ACCESSIBLE RAMP ----



10



17

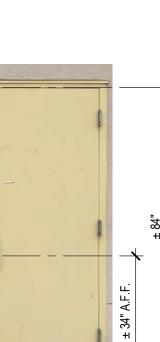


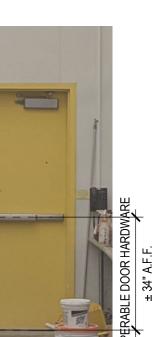
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24



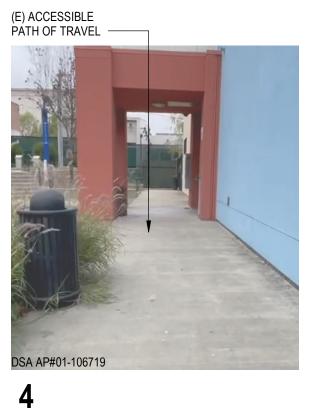




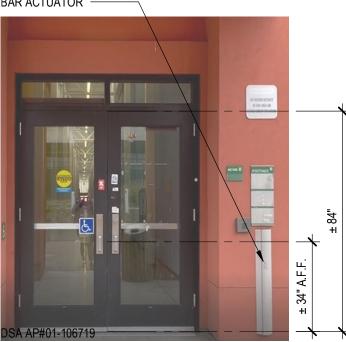


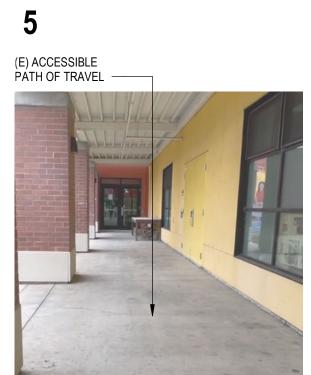






(E) ACCESSIBLE PUSH BAR ACTUATOR

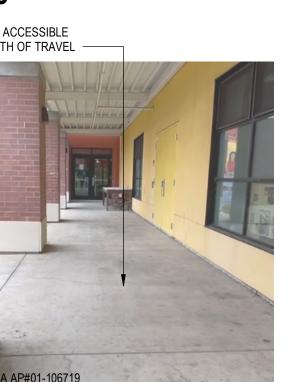




12

OSA AP#01-106719

19



₹. 7



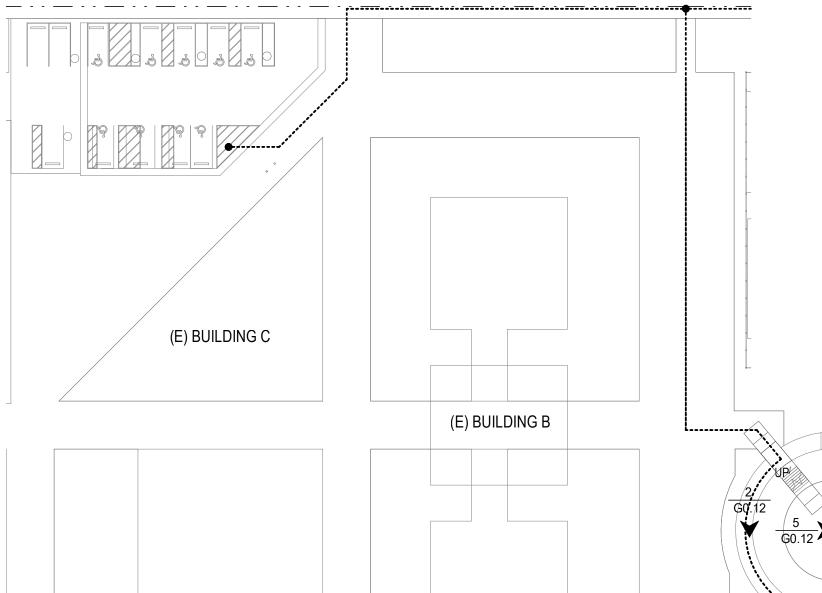
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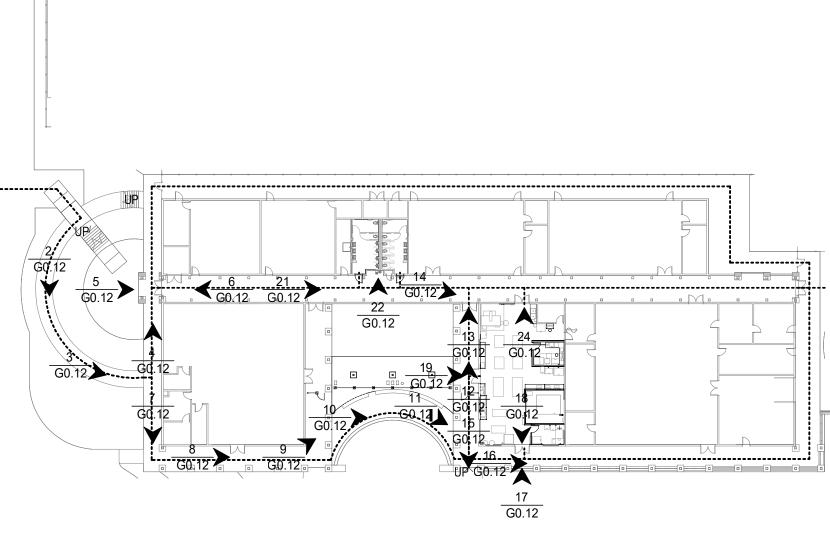
(E) ACCESSIBLE PUSH

BAR ACTUATOR



20



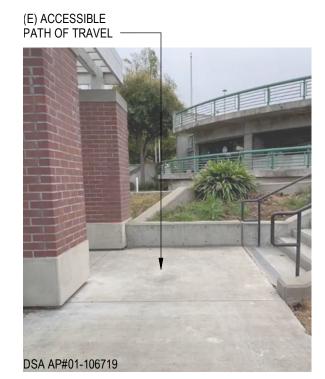


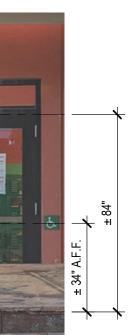


KEY PLAN - SITE PLAN

(E) LIBRARY

G0.12 SCALE: 1" = 40'-0"







14

# (E) ACCESSIBLE PATH OF TRAVEL

21

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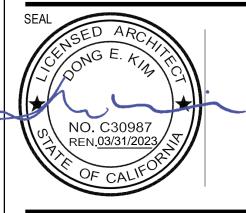
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ACCESSIBLE ROUTE IMAGES

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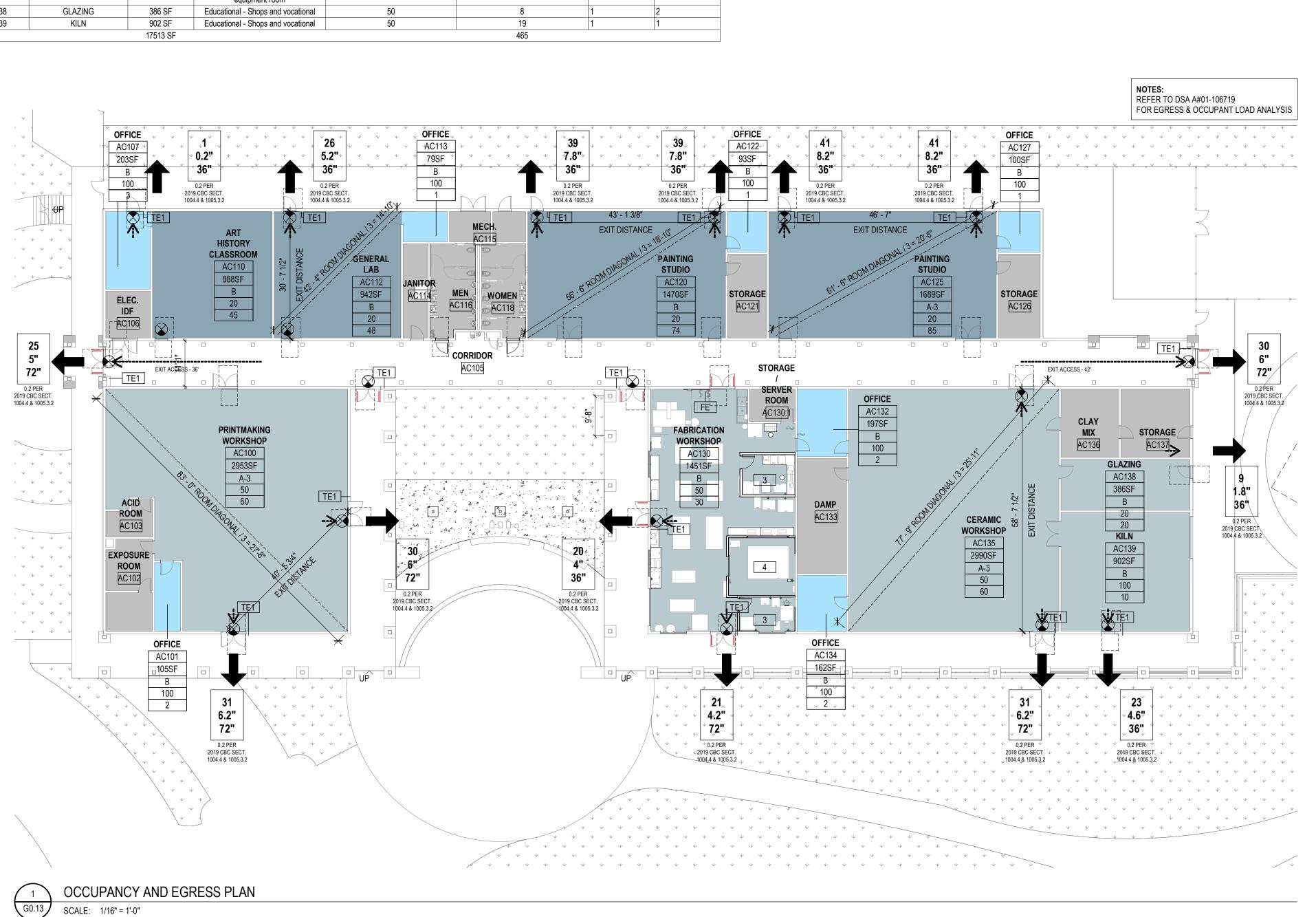
CHECKED: DK

G0.12

#### CA100024 - 2005082

			OCCU	PANT LOAD			
ROOM #	NAME	SPACE AREA, S.F.	FUNCTION OF SPACE	S.F. PER OCCUPANT - CBC TABLE 1004.1.1 (PER DSA APP# 01-106719)	OCCUPANT LOAD	REQ'D EXITS	PROVIDED EXIT
AC100	PRINTMAKING WORKSHOP	2953 SF	Educational - Shops and vocational	50	60	2	3
AC101	OFFICE	105 SF	Business	100	2	1	1
AC102	EXPOSURE ROOM	246 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC103	ACID ROOM	85 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC106	ELEC. IDF	122 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC107	OFFICE	203 SF	Business	100	3	1	1
AC110	ART HISTORY CLASSROOM	888 SF	Educational - Classroom	20	45	1	1
AC112	GENERAL LAB	942 SF	Educational - Classroom	20	48	1	2
AC113	OFFICE	79 SF	Business	100	1	1	1
AC114	JANITOR	139 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC115	MECH.	135 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC116	MEN	239 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC118	WOMEN	232 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC120	PAINTING STUDIO	1470 SF	Educational - Classroom	20	74	2	4
AC121	STORAGE	193 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC122	OFFICE	93 SF	Business	100	1	1	1
AC125	PAINTING STUDIO	1689 SF	Educational - Classroom	20	85	2	4
AC126	STORAGE	206 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC127	OFFICE	100 SF	Business	100	1	1	1
AC130	FABRICATION WORKSHOP	1451 SF	Educational - Shops and vocational	50	30	1	3
AC130A	CLEAN ROOM	125 SF	Educational - Shops and vocational	50	3	1	1
AC130B	CNC ROOM	226 SF	Educational - Shops and vocational	50	5	1	1
AC130C	TOOL ROOM	111 SF	Educational - Shops and vocational	50	3	1	1
AC132	OFFICE	197 SF	Business	100	2	1	2
AC133	DAMP	334 SF	Accessory storage areas, mechanical equipment room	300	2	1	1
AC134	OFFICE	162 SF	Business	100	2	1	1
AC135	CERAMIC WORKSHOP	2990 SF	Educational - Shops and vocational	50	60	2	2
AC136	CLAY MIX	232 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC137	STORAGE	276 SF	Accessory storage areas, mechanical equipment room	300	1	1	1
AC138	GLAZING	386 SF	Educational - Shops and vocational	50	8	1	2
AC139	KILN	902 SF	Educational - Shops and vocational	50	19	1	1
		17513 SF	· ·		465		

SCALE: 1/16" = 1'-0"





#### SITE NOTES

CBC 1013 TACTILE EXIT SIGNS

REFER TO G0.02 FOR SIGNAGE DETAILS.

TACTILE EXIT SIGNS ARE REQUIRED AT DOORS WHERE ILLUMINATED EXIT SIGNS ARE REQUIRED. NOTE THE LOCATION ON FLOOR PLANS AND PROVIDE DETAILS INDICATING COMPLIANCE.

TE1 EACH GRADE-LEVEL EXTERIOR EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1 SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT".

TE2 EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH 1013.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE: "EXIT STAIR DOWN" "EXIT RAMP DOWN" "EXIT STAIR UP" "EXIT RAMP UP"

**TE3** EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN ENCLOSURE OR AN EXIT PASSAGEAWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE".

TE4 EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORK "EXIT ROUTE".

**TE5** EACH EXIT DOOR THROUGH A HORIZONTAL EXIT THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1 SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "TO EXIT".

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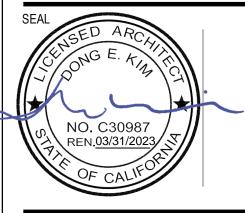
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#### OCCUPANCY AND EGRESS PLAN

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G0.13

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••••••••••••••••• COMMON PATH OF TRAVEL

EXIT DISCHARGE

— — — — — DIAGONAL DISTANCE

ILLUMINATED EXIT SIGN

FIRE EXTINGUISHER 1-A:10:B:C MIN RATING SEE 16/A-4, DSA APP#01-106719

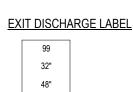
EXIT ROUTE TACTILE SIGNS SEE <u>G0.02</u> FOR SIGNAGE DETAIL - SIGNAGE TYPE 3

INDICATES DOOR EQUIPPED

FE

TE#

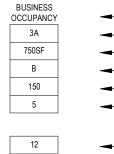
EXIT PATH



EGRESS NUMBER @ EXIT DISCHARGE DOOR WIDTH REQUIRED IN INCHES DOOR WIDTH PROVIDED IN INCHES

W/ PANIC HARDWARE

0.2 PER 2019 CBC SECT. 1004.4 & 1005.3.2 EXIT DISCHARGE LABEL



ROOM NAME ROOM NUMBER AREA (SF) OCCUPANCY CLASSIFICATION SF PER OCCUPANT - # OF OCCUPANTS

COMBINED # OF OCCUPANTS

#### FUNCTION OF SPACE LEGEND

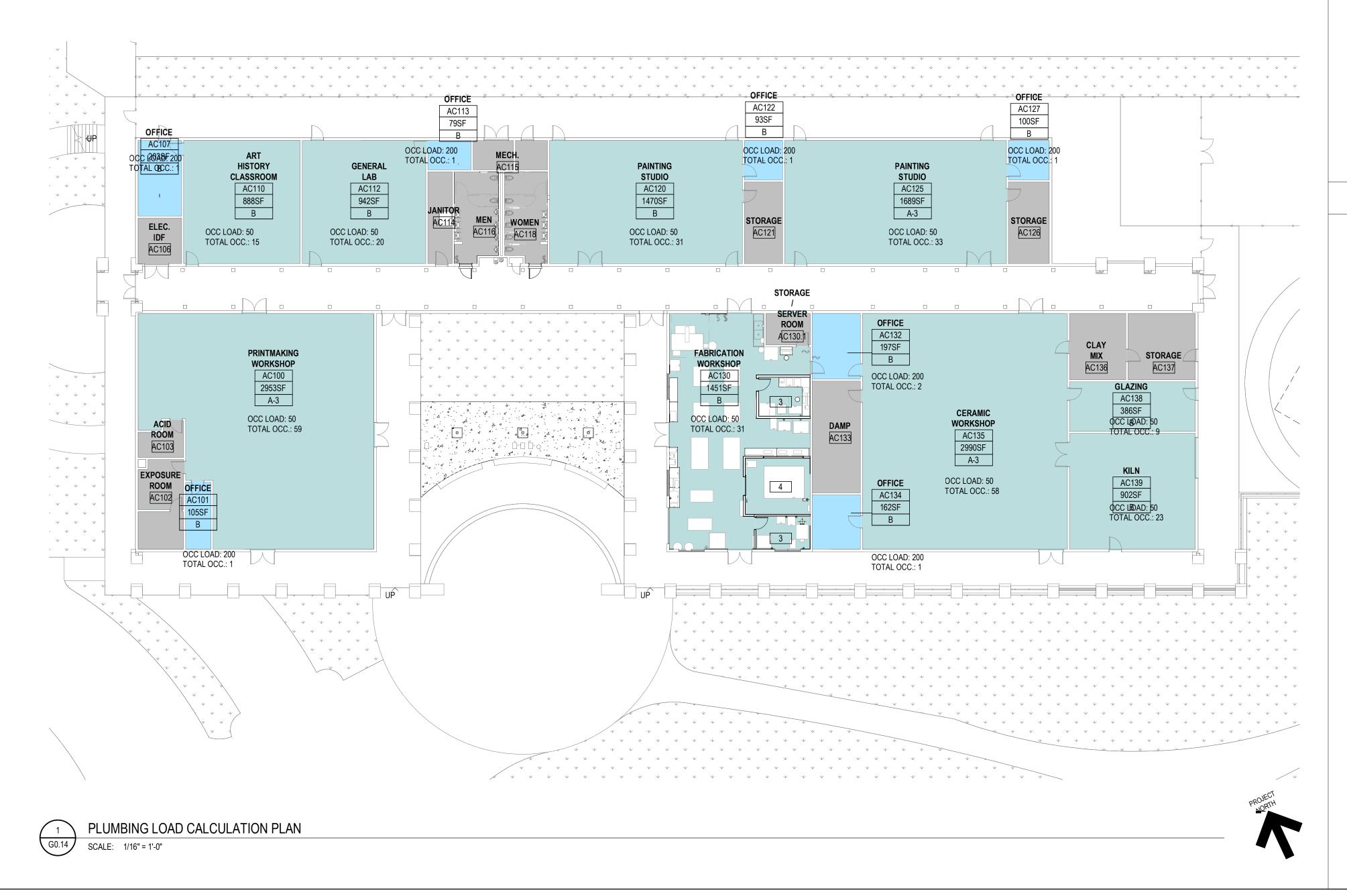
Accessory storage areas,

Educational - Classroom

Educational - Shops and vocational

Business





#### PROJECT: BUILDING: ART BUILDING LOCATION: OWNER: DATE OF CONSTRUCTION: 2005 OCCUPANCY CLASSIFICATION: BUILDING TYPE: VN SPRINKLERS: BUILDING AREA: 22, 582 SF ZONING: N/A ACCESSIBILITY REQ.: CBC 2019 CHAPTER 11B

PER CPC 2019 SEC. 422.0, TABLE 422.1 & TABLE A

PLUMBING SCHEDULE																		
PLUMBING OCCUPANCY	LOAD FACTOR	AGGREATE	OCCUPANT	MALE	FEMALE				MALE		FEMA	<b>LE</b>						
		AREA				LOAD OCCUPANT LOAD						DRINKING FOUNTAIN	SINGLE-USE WC	WC	LAV	URINALS	WC	LAV
В	200	944 SF	5	2	3	1	-	1	1	1	1	1						
E	50	14138 SF	283	141	142	1	-	3	3	2	3	3						
N/A	-	2683 SF	-	-	-	-	-	-	-	-	-	-						
	•		TOTAL REQ.			2	-	4	4	3	4	4						
			TOTAL EXISTING			2	-	2	3	4	6	6						
			TOTAL PROVIDE	D/ADDED		-	-	-	-	-	-	-						
			DELTA (REQ PF	ROVIDED)		-	-	2	1	-	-	-						

CLASSIFICATION LEGEND



#### PROJECT INFORMATION

LANEY COLLEGE FABRICATION WORKSHOP RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

PERALTA COMMUNITY COLLEGE DISTRICT

YES, AUTOMATIC SPRINKLERED

#### PLUMBING FIXTURE TABULATION

LEGEND

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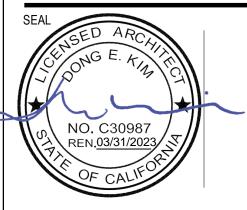
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# ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607

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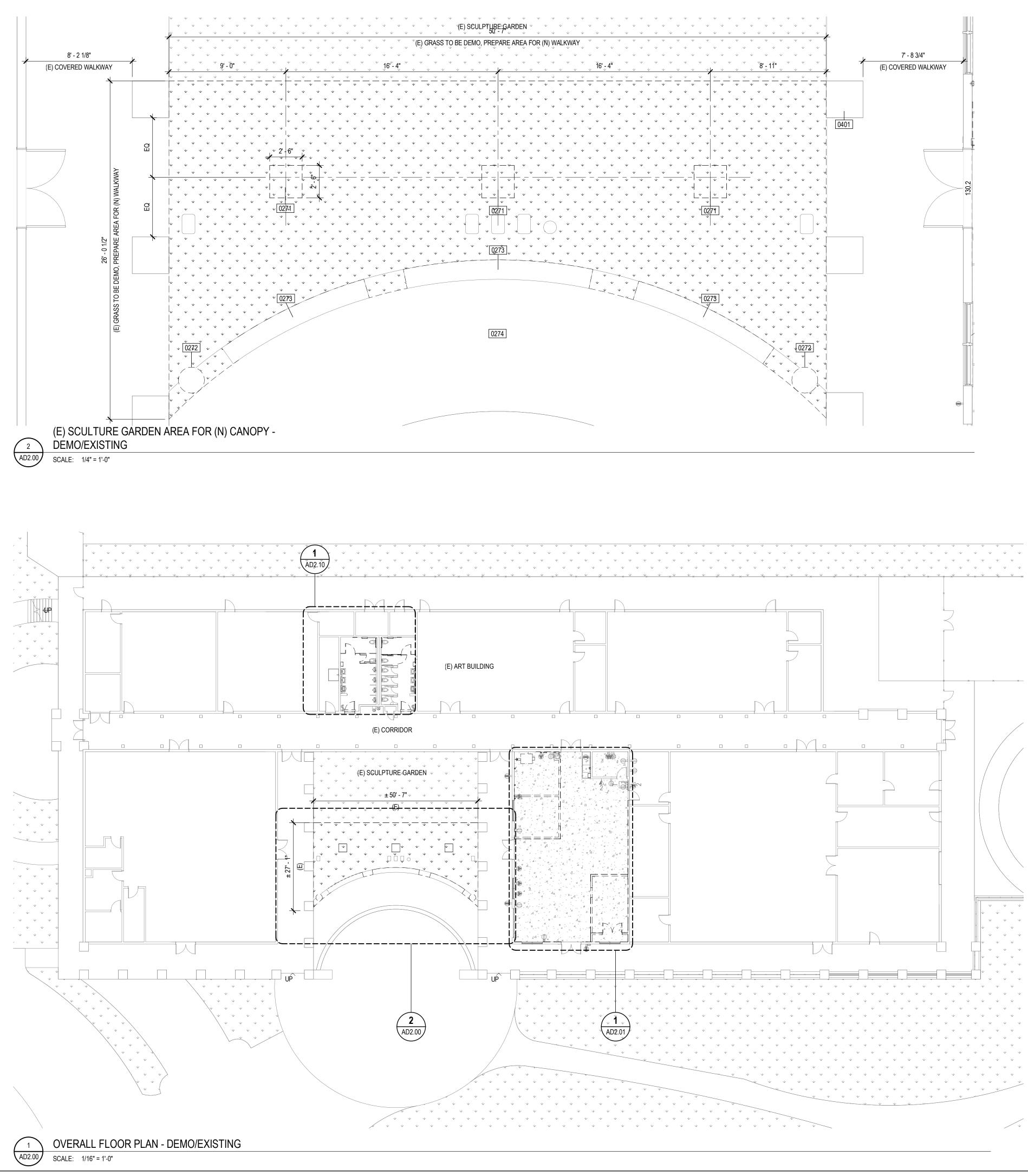
## PLUMBING LOAD CALCULATION

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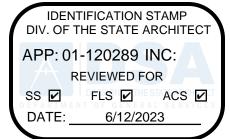


Keynote Text

0271	REMOVE EXISTING GRASS, PREPARE GROUND TO RECIEVE (N) POST FOR (N) CANOPY.
0272	REMOVE EXISTING TRASH RECEPTACLES, TYP.
0273	EXISTING TO REMAIN, CONC. SEAT WALL, TYP.
0274	EXISTING TO REMAIN, CONC. PAVEMENT, TYP.

(E) COLUMN W/ BRICK VENEER, TYP.

Key Value



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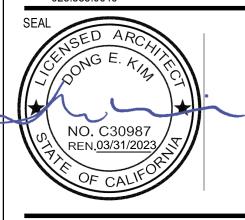
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#### DEMOLITION OVERALL PLAN

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AD2.00

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#### DEMOLITION NOTES

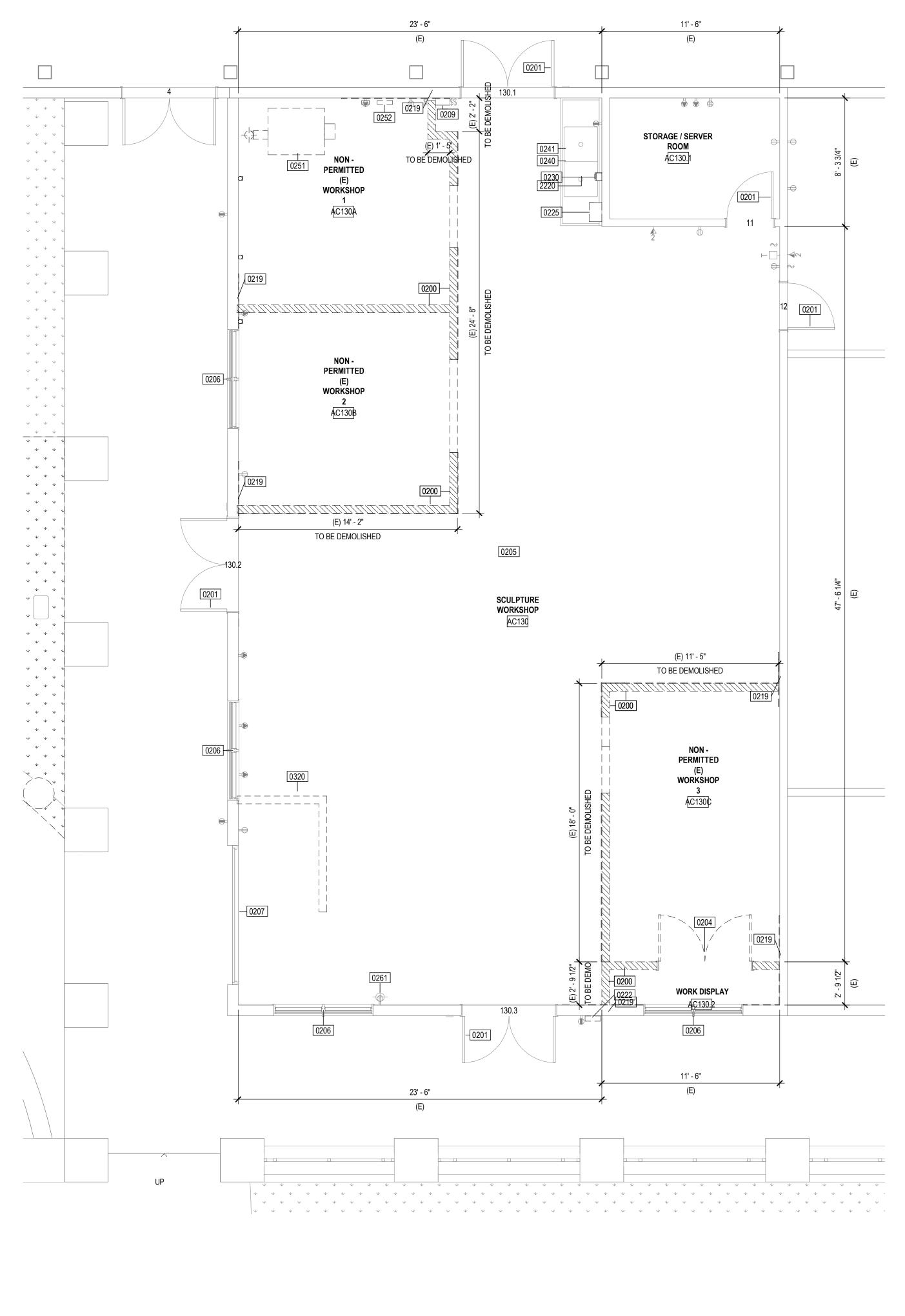
- THE DEMOLITION PLAN IS A GRAPHIC REPRESENTATION OF THE (E) FIELD CONDITIONS BASED ON THE INFORMATION PROVIDED TO THE ARCHITECT. IT IS NOT INTENDED TO BE A RECORD DRAWING OF THE (E) BUILDING. DEMOLITION DRAWINGS ARE DEVELOPED TO SHOW BOUNDARIES AND SCOPE TO THE NON-STRUCTURAL DEMOLITION OF SELECTED ITEMS. THE CONTRACTOR SHALL PERFORM A DETAILED WALK-THROUGH WITH THE TENANT'S REPRESENTATIVE TO CONFIRM THE SCOPE OF WORK, VERIFY THE (E) CONDITIONS, AND ALL CONFLICTS WITH THE SCHEDULED SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF AND REPLACEMENT OF (E) UTILITIES AS REQ. TO COMPLETE THE (N)SCOPE OF WORK SHOWN IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT CITY AND COUNTY REQUIREMENTS FOR DEMOLITION, INCLUDING, BUT NOT LIMITED TO, REMOVAL OF DEBRIS, BUILDING PROTECTION, LOCATION AND TYPE OF CONTAINERS AND THE DISCARDING OF MATERIALS.
- 3. THE DEMOLITION PLAN DOES NOT ACKNOWLEDGE TOXIC MATERIALS AND DOES NOT AUTHORIZE THE DEMOLITION AND/ OR REMOVAL OF TOXIC MATERIALS. ALL TOXIC MATERIALS DISCOVERED DURING THE FIELD INSPECTION AND THE DEMOLITION OF THE WORK SCOPE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. ALL DEMOLITION AND REMOVAL OF TOXIC MATERIALS SHALL BE IN CONFORMANCE WITH ALL STATE AND LOCAL CODES. ALL PERMITS AND APPROVALS SHALL BE OBTAINED AND COPIES GIVEN TO THE OWNER'S REPRESENTATIVE FOR RECORD.
- 4. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT REQUIREMENTS BY THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (CAL-OSHA) FOR DEMOLITION AND THE PROTECTION OF PUBLIC AREAS AND THE SURROUNDING AREAS.
- 5. THE CONTRACTOR SHALL MAKE A DETAILED SURVEY OF THE AREAS OF WORK AND DETERMINE THE METHOD OF REMOVED SCHEDULED WORK WITHOUT DAMAGE TO AREAS THAT ARE NOT SCHEDULED FOR DEMOLITION. CONTRACTOR SHALL REPAIR ALL DAMAGED WORK AT NO ADDITIONAL COST. TO THE OWNER. ITEMS SCHEDULED TO BE SALVAGED AND/ OR RELOCATED SHALL BE KEPT CLEAN AND IN THEIR ORIGINAL CONDITION. ITEMS DAMAGED OR LOST SHALL BE REPLACED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 6. BEFORE COMMENCING DEMOLITION, SURVEY AREAS WITH BUILDING OWNER'S REPRESENTATIVE TO DETERMINE ITEMS TO BE SALVAGED AND RETURNED TO OWNER.
- WALLS AND CEILINGS SCHEDULED TO BE DEMOLISHED SHALL INCLUDE ALL ELECTRICAL, AND UTILITES MOUNTED ON AND CONTAINED WITHIN WALLS AND CEILINGS. ELECTRICAL AND UTILITES SHALL BE REMOVED TO THE NEAREST POINT OF DISCONNECT. ELECTRICAL AND UTILITIES THAT ARE CONNECTED TO AREAS TO REMAIN SHALL BE REROUTED AND CONNECTED TO MAINTAIN SERVICE TO
- AREAS SCHEDULED TO REMAIN. 8. ALL (E) F.E.C. AND F.H.C. SHALL BE RETAINED, U.O.N. (E) F.E.C. AND F.H.C. IN AREAS SCHED. FOR DEMOLITION SHALL BE SALVAGED AND STORED ON SITE FOR RELOCATION.
- 9. ALL FIRE SPRINKLER SYSTEMS TO REMAIN. SUPPORT ALL NECESSARY PIPING IF AFFECTED BY DEMOLITION.
- 10. NO DEMOLITION WORK TO PROCEED UNTIL PLANS AND DEMOLITION PLANS HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA).
- 11. REMOVE ALL FLOOR FINISHES, TILE ON WALLS, PLUMBING FIXTURES, SPECIALTIES U.O.N. REFER TO ELECTRICAL, MECHANICAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION. 12. CONTRACTOR SHALL REVIEW EXISTING FRAMING CONDITIONS AND SHALL PROVIDE TEMPORARY
- SHORING AND BRACING AS REQUIRED, TYP

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

#### LEGEND

(E) AND TO REMAIN

(E) AND TO BE DEMO



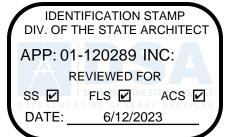
AD2.01

**FABRICATION WORKSHOP - DEMO/EXISTING PLAN** SCALE: 1/4" = 1'-0"



#### **KEYNOTE LEGEND**

Key Value	Keynote Text
0200	REMOVE EXISTING NON-PERMITTED WALL, TYP.
0201	EXISTING TO REMAIN, DOOR AND FRAME, TYP.
0204	REMOVE EXISTING DOOR AND FRAME.
0205	EXISTING TO REMAIN, CONC. FLOOR, TYP.
0206	EXISTING TO REMAIN, WINDOW, TYP.
0207	EXISTING TO REMAIN, GARAGE DOOR, TYP.
0209	EXISTING TO REMAIN, FIRE EXTINGUISHER, TYP.
0219	REMOVE AND REPLACE FRP PANEL IF DAMAGED, TYP.
0222	REMOVE EXISTING FIRST AID KIT, TO BE SALVAGE AND REINSTALL.
0225	REMOVE EXISTING PAPER TOWEL DISPENSER.
0230	REMOVE EXISTING SOAP DISPENSER, TYP.
0240	MODIFY EXISTING SCULLERY SINK PLUMBING.
0241	EXISTING TO REMAIN, SCULLERY SINK, TYP.
0251	RELOCATE EXISTING DUST COLLECTING SYSTEM.
0252	RELOCATE EXISTING DUST PANEL.
0261	EXISTING FIRE RISER.
0320	TRENCH (E) CONCRETE SLAB FLOOR FOR NEW ELECTRICAL FLOORBOX
2220	REMOVE (E) CLAYTRAP, PREPARE TO RECEIVE (N) PLUMBING SCOPE, S.P.D.



APPROVAL STAMP:



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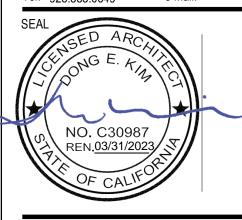
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#### **ARCHITECT & PRIME CONSULTANT** DIALOG 681 4th STREET

OAKLAND, CA, 94607 Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 e-mail: Tel: 510.894.2984

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PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

#### **DEMOLITION FLOOR PLAN -**FABRICATION WORKSHOP

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AD2.01

#### CA100024 - 2005082

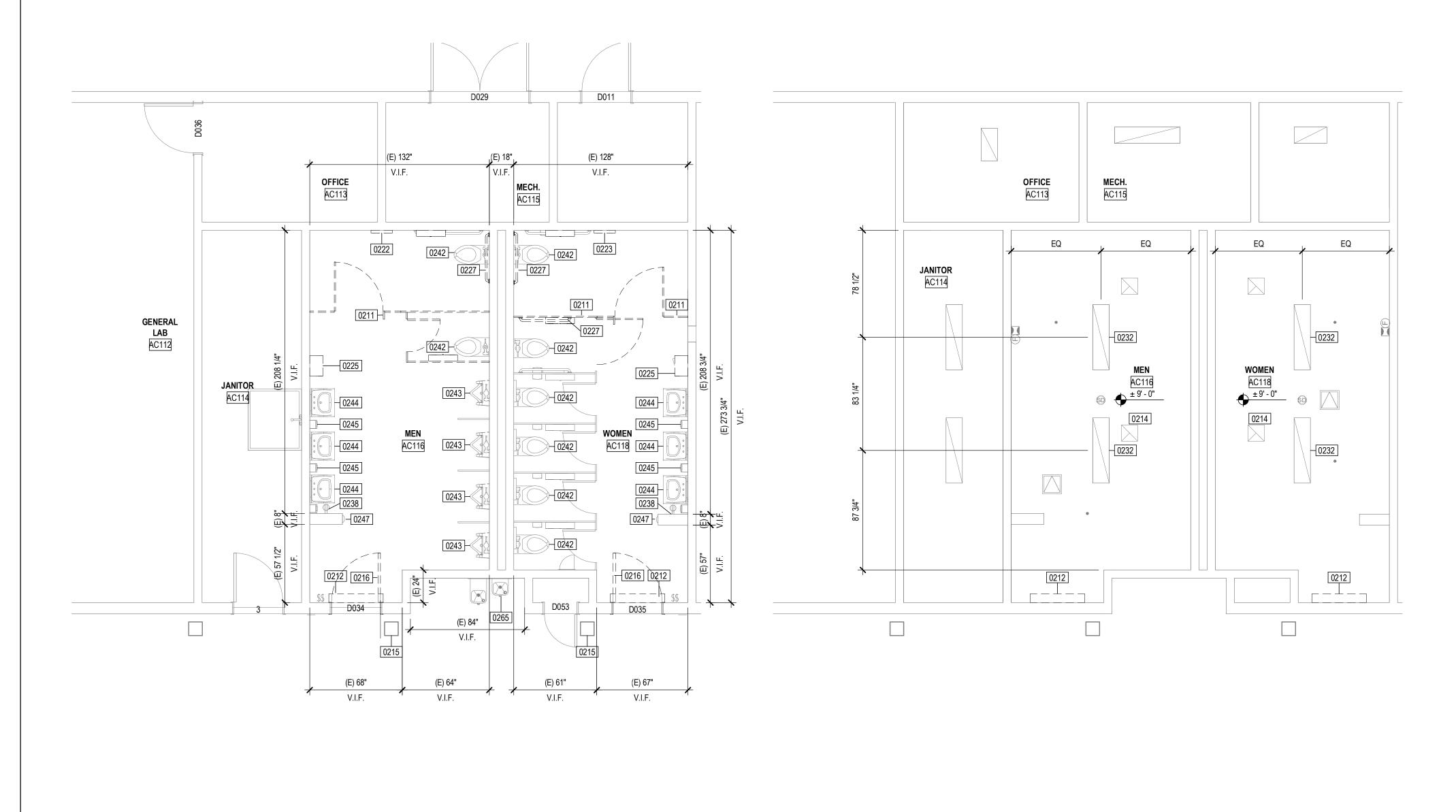
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#### **DEMOLITION NOTES**

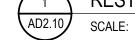
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- 6. BEFORE COMMENCING DEMOLITION, SURVEY AREAS WITH BUILDING OWNER'S REPRESENTATIVE TO DETERMINE ITEMS TO BE SALVAGED AND RETURNED TO OWNER.
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- AREAS SCHEDULED TO REMAIN. 8. ALL (E) F.E.C. AND F.H.C. SHALL BE RETAINED, U.O.N. (E) F.E.C. AND F.H.C. IN AREAS SCHED. FOR DEMOLITION SHALL BE SALVAGED AND STORED ON SITE FOR RELOCATION.
- 9. ALL FIRE SPRINKLER SYSTEMS TO REMAIN. SUPPORT ALL NECESSARY PIPING IF AFFECTED BY DEMOLITION.
- 10. NO DEMOLITION WORK TO PROCEED UNTIL PLANS AND DEMOLITION PLANS HAVE BEEN APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA).
- 11. REMOVE ALL FLOOR FINISHES, TILE ON WALLS, PLUMBING FIXTURES, SPECIALTIES U.O.N. REFER TO ELECTRICAL, MECHANICAL AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION. 12. CONTRACTOR SHALL REVIEW EXISTING FRAMING CONDITIONS AND SHALL PROVIDE TEMPORARY
- SHORING AND BRACING AS REQUIRED, TYP

#### LEGEND

- (E) AND TO REMAIN
- (E) AND TO BE DEMO \_ \_ \_ \_ \_ \_ \_ \_ \_ \_
- (E) WALLS TO BE DEMO













Key Value

Keynote Text

.,	
0211	REMOVE PORTION OF EXISTING TOILET PARTITION.
0212	REMOVE EXISTING AUTOMATIC DOOR CLOSER, TO BE SALVAGE AND REINSTALL.
0214	EXISTING TO REMAIN, GYP. BD. CEILING, TYP.
0215	EXISTING TO REMAIN, COLUMN, TYP.
0216	REMOVE EXISTING DOOR AND FRAME, TO BE SALVAGE AND REINSTALL.
0222	REMOVE EXISTING FIRST AID KIT, TO BE SALVAGE AND REINSTALL.
0223	REMOVE EXISTING TOILET SEAT COVER DISPENSER, TO BE SALVAGE AND REINSTALL.
0225	REMOVE EXISTING PAPER TOWEL DISPENSER.
0227	REMOVE EXISTING GRAB BAR, TYP.f
0232	EXISTING TO REMAIN, LIGHT FIXTURES, TYP.
0238	EXISTING SWITCH AND RECEPTACLES TO REMAIN. SHALL BE REROUTED OR RECONNECTED, AS REQUIRED, WHERE AFFECTED BY NEW WORK IN ORDER TO MAINTAIN CONTINUITY IF CIRCUIT.
0242	EXISTING TO REMAIN, WATERCLOSET, TYP.
0243	EXISTING TO REMAIN, URINAL, TYP.
0244	EXISTING TO REMAIN, LAVATORY, TYP.
0245	EXISTING TO REMAIN, WALL MOUNTED ACCESSORIES, U.O.N.
0247	EXISTING TO REMAIN, PUSH BAR ACTUATOR, TYP.
0265	EXISTING HI/LO DRINKING FOUNTAIN, DSA APP#01-106719

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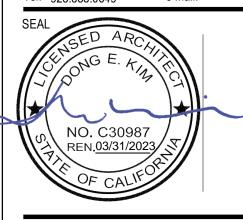
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#### PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

## DEMOLITION FLOOR PLAN -RESTROOM

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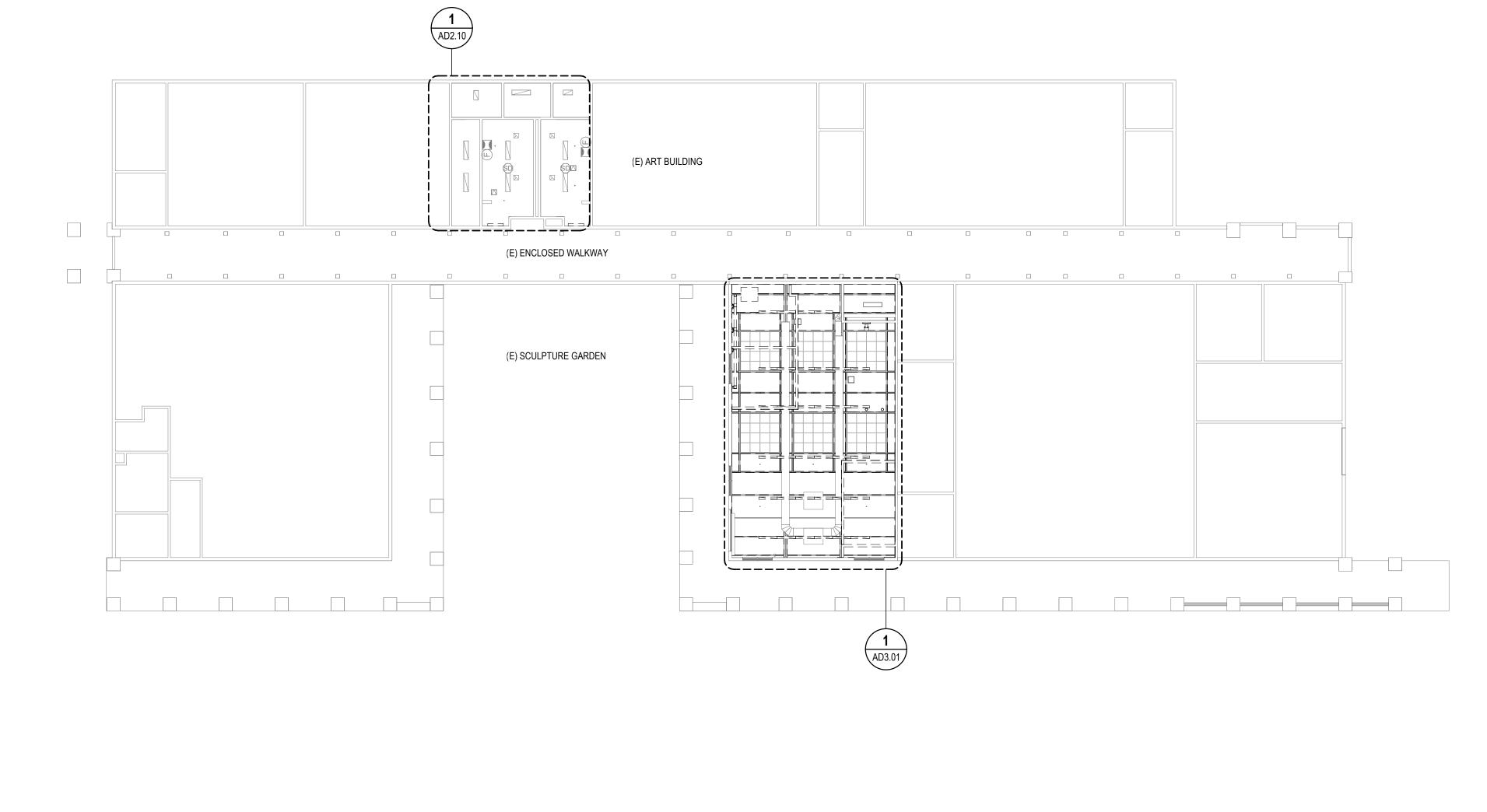
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- ALL FIRE SPRINKLER SYSTEMS TO REMAIN. SUPPORT ALL NECESSARY PIPING IF AFFECTED BY DEMOLITION.
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- SHORING AND BRACING AS REQUIRED, TYP

#### LEGEND

- (E) AND TO REMAIN
- \_\_\_\_\_ (E) AND TO BE DEMO
- (E) WALLS TO BE DEMO





SCALE: 1/16" = 1'-0"



Key Value

#### **KEYNOTE LEGEND**

Keynote Text

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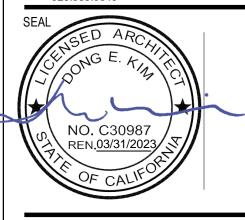
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PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

#### **DEMOLITION RCP** -OVERALL

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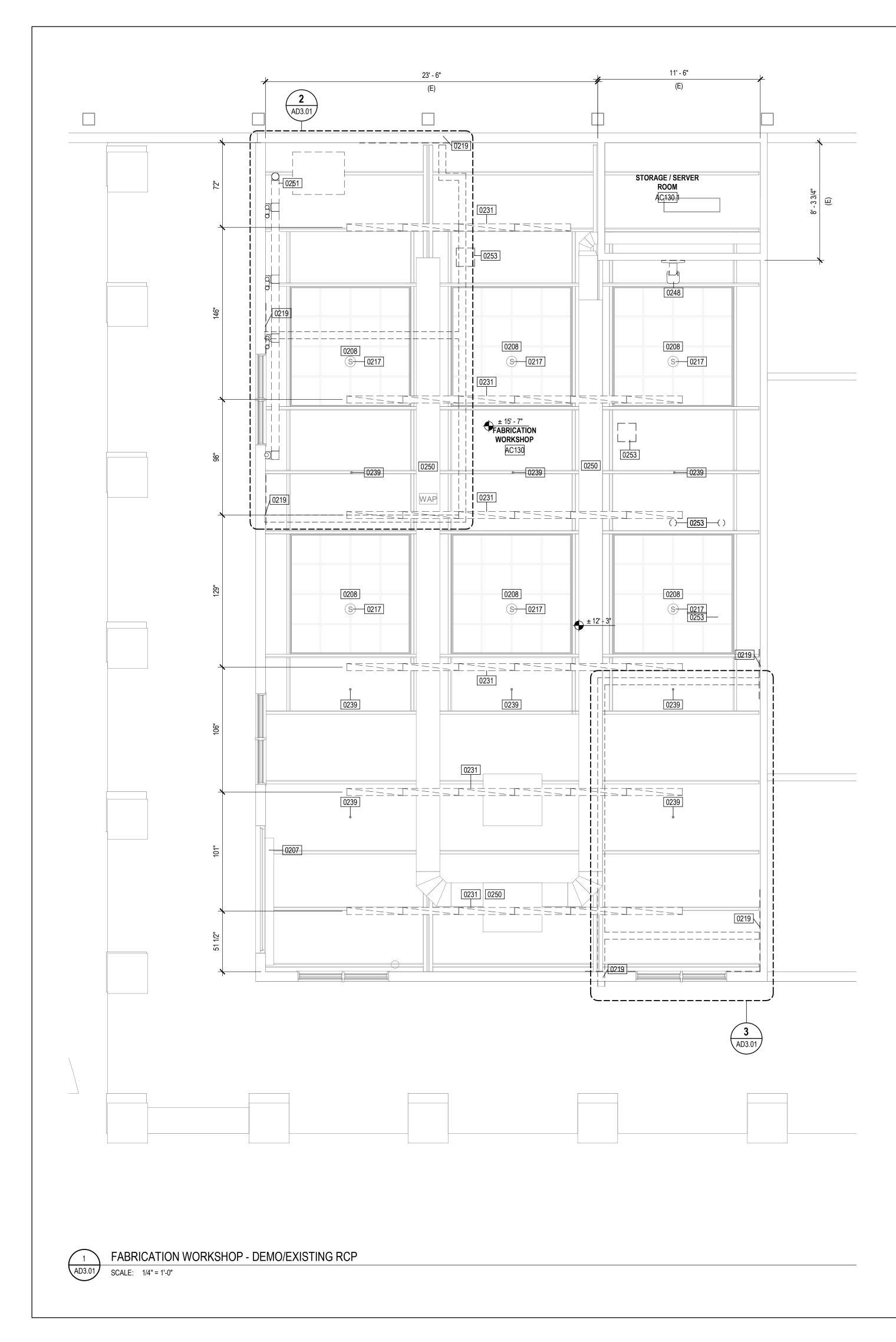
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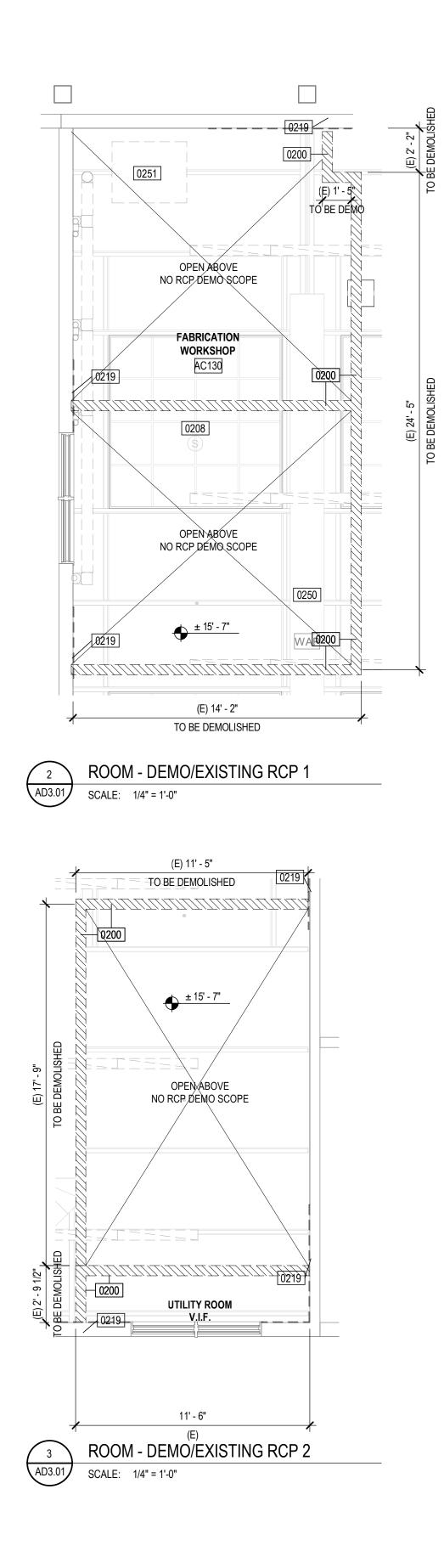
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#### LEGEND

(E) AND TO REMAIN

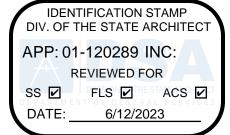
\_\_\_\_\_ (E) AND TO BE DEMO







Key Value	Keynote Text
0200	REMOVE EXISTING NON-PERMITTED WALL, TYP.
0207	EXISTING TO REMAIN, GARAGE DOOR, TYP.
0208	EXISTING TO REMAIN, SKYLIGHT, TYP.
0217	EXISTING TO REMAIN, SMOKE DETECTOR, TYP.
0219	REMOVE AND REPLACE FRP PANEL IF DAMAGED, TYP.
0231	REMOVE EXISTING LIGHT FIXTURE, TYP.
0239	EXISTING TO REMAIN, FIRE SPRINKLER, TYP.
0248	REMOVE EXISTING WALLMOUNTED PROJECTOR, TO BE SALVAGE AND REINSTALL.
0250	EXISTING TO REMAIN, EXPOSED DUCT SYSTEM, TYP.
0251	RELOCATE EXISTING DUST COLLECTING SYSTEM.
0253	REMOVE EXISTING PORTION OF ROOF AND PREP OPENING TO RECEIVED NEW EXHAUST FAN



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#### **DEMOLITION RCP** -FABRICATION WORKSHOP

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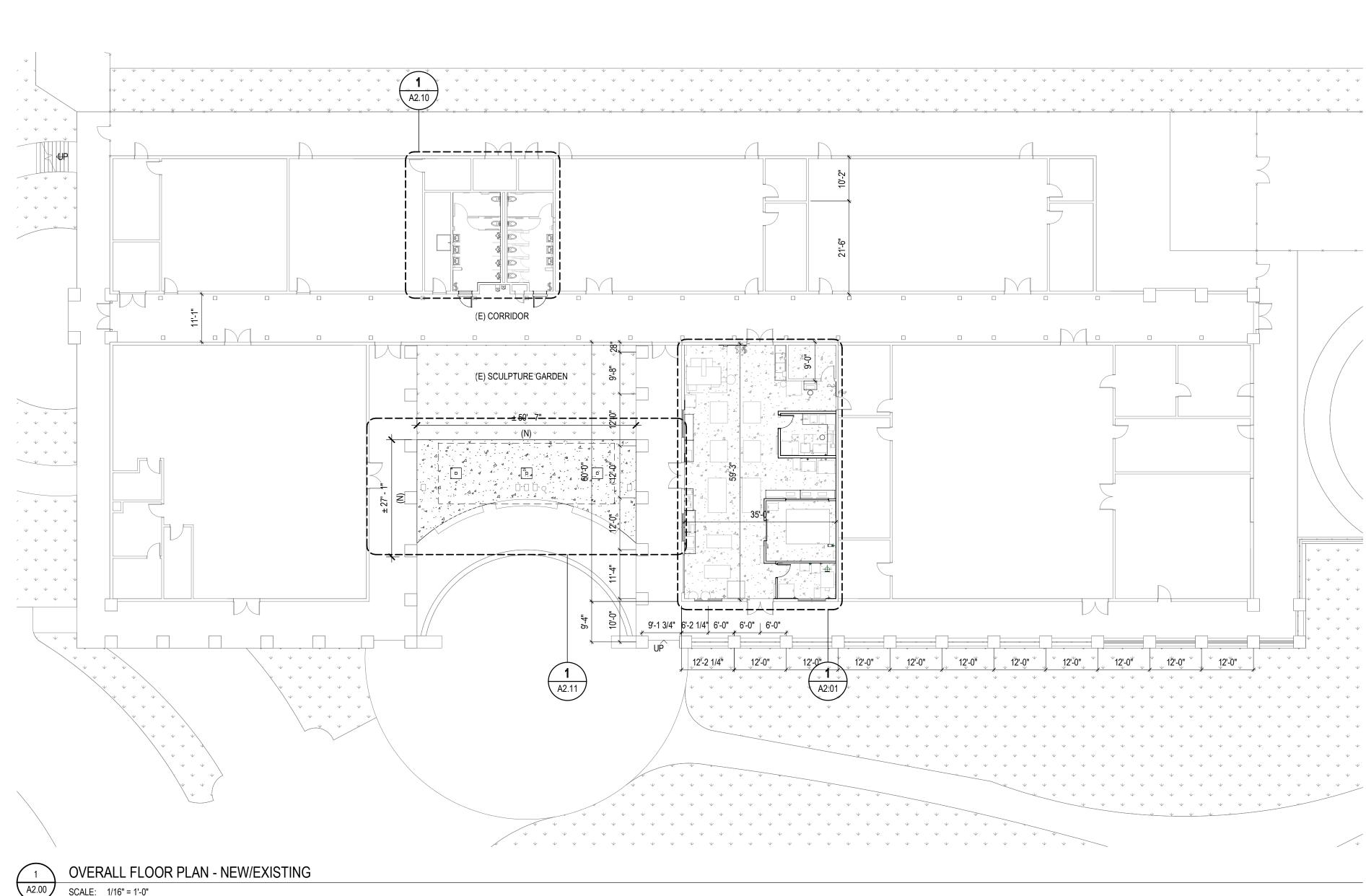
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LEGEND

NOTES

(E) AND TO REMAIN \_ \_ \_ \_ \_ \_ \_ \_ \_ \_  $\bigcirc$ 

(E) AND TO BE DEMO (E) WALLS TO BE DEMO (E) FIRE SPRINKLER



SCALE: 1/16" = 1'-0"

#### **KEYNOTE LEGEND**

Keynote Text

Key Value

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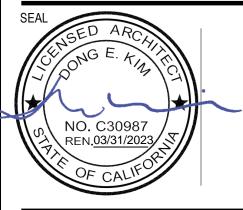
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## OVERALL PLAN

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A2.00

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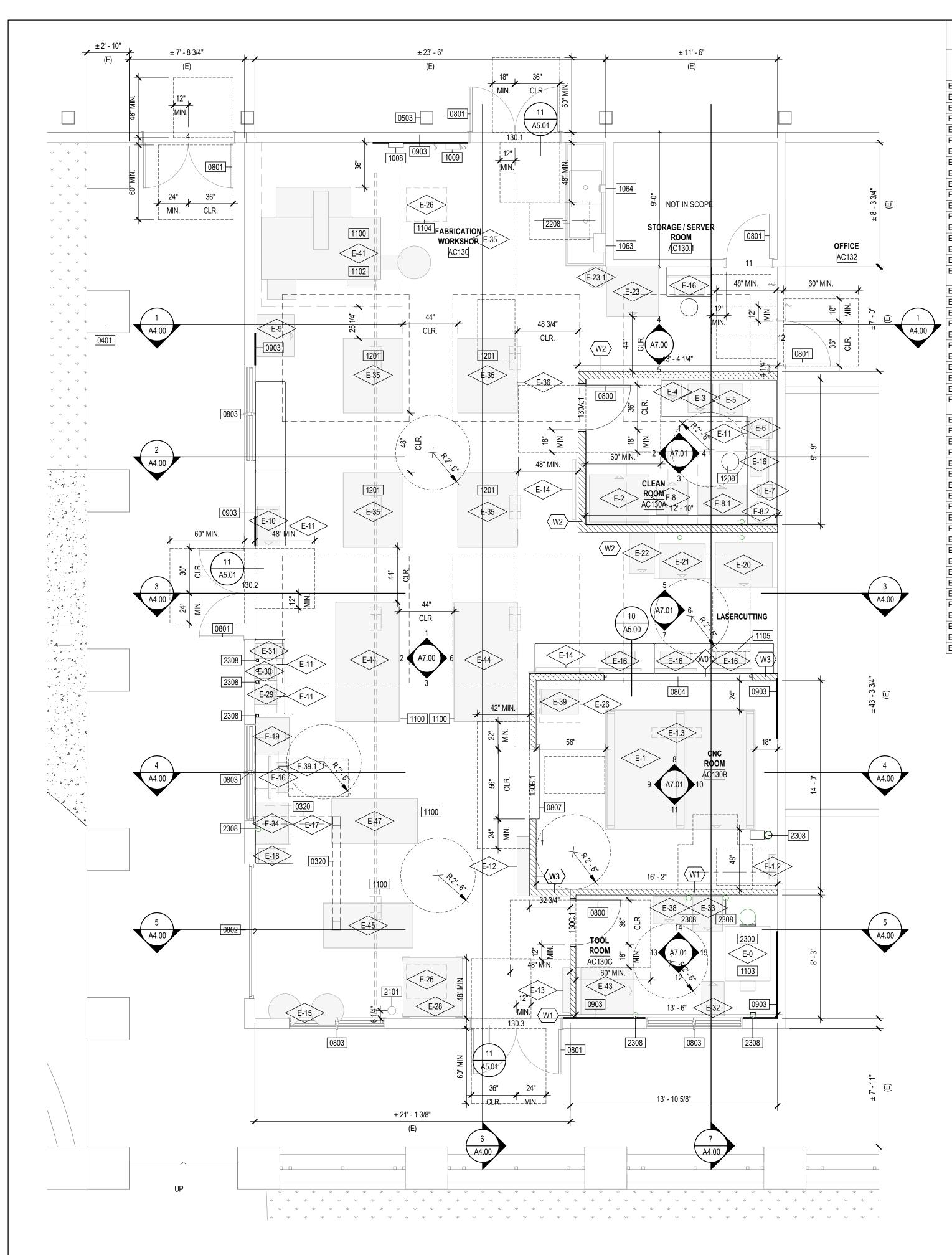
LEGEND

NOTES

(E) AND TO REMAIN

(N)





			NEDULE			
TAG	ITEM	MODEL#	DIMENSION (LxWxH)	MOUNTING HT	MOUNTING	CI T
E-0	DUST COLLECTER	DONALDSON TORRIT UNIMASTER 250	36X52X121.3		FLOOR ANCHOR	1
E-1	CNC TABLE	SHOPBOT - SPINDLE - PRSalpha ATC	96X120X67		FLOOR/CASTER	1
E-1.2	CNC TABLE - ACCESSORIES	SHOPBOT - CONTROL BOX		38-48 AFF	WALL	1
E-1.3	CNC TABLE - ACCESSORIES	SHOPBOT - VAC PUMP			UNDERNEATH TABLE	1
E-2	UV PRINTER	ROLAND LEF2-200	48X38X22		FLOOR	1
E-3	3D PRINTER	ULTIMAKER S5	20X23X31		DESK	1
E-4	3D PRINTER	FORM 2	13X14X21		DESK	1
E-5	3D PRINTER	MOJO	29X26X21		DESK	1
E-6	3D PRINTER - ACCESSORIES	WAVEWASH	19X17X18		DESK	1
E-7	3D PRINTER - ACCESSORIES	FORM 2 ACCESSORIES	10.5X12		DESK	1
E-8	3D PRINTER	FUSE 1	25.4X27X65		FLOOR	1
E-8.1	3D PRINTER	FUSE SIFT	24X39X61.8		FLOOR	1
E-8.2	3D PRINTER	FUSE 1 VACUUM	21/00/01:0		FLOOR	1
E-9	VINYL CUTTER	CAMM-1 GS-24	30X34X40		FLOOR/CASTER	1
E-10	HEAT PRESS	0,000110021	32X18		DESK	1
E-11	RED TOOL BOX	WESTWARD	26X18		UNDERCOUNTER	4
E-12	HAND TOOL STORAGE		48X72		WALL	1
E-13	SAFETY TOOLS + SCREW STORAGE		36X60		WALL	1
E-14	WHITEBOARD		72W	36 AFF	WALL	
E-15	WASTE BIN		26.5 DIA.	40	FLOOR/CASTER	3
E-16	COMPUTER - ALL IN ONE	WORKSTATION			FLOOR	10
E-17	COMPUTER - LAPTOPS	STORAGE			FLOOR/CASTER	5
E-18	CNC DESKTOP	POCKET NC	12X22X17		DESK	1
E-19	MILL DESKTOP	ROLAND MDX-40A	27X30X22		DESK	1
E-20	LASER CUTTER	UNIVERSAL PLS6.150D	(46+4R)X(36+8B)X36		FLOOR/CASTER	1
E-21	LASER CUTTER	EPILOG HELIX	(37+4L)X(28+9B)X40		FLOOR/CASTER	1
E-22	THERMOFORM	FORMECH COMPAC MINI	33X20X42		FLOOR/CASTER	1
E-23	WATERJET - MAIN PUMP	PROTO MAX	40X42X56		FLOOR/CASTER	1
E-23.1	WATERJET - DISCHARGE PUMP	PROTO MAX	17 DIA.	24	FLOOR/CASTER	1
E-26	AIR FILTRATION	JET	27X32.5X12.5		CEILING	3
E-28	LUMBER RACK		36X48X84		FLOOR/CASTER	
E-29	SPINDLE SANDER	GRIZZLY INDUSTRIAL T27417	16.5X18.5X18.5		FLOOR	1
E-30	ROUTER	FESTOOL MFK700 EQ	15.5X11.5X6.5		DESK	1
E-31	SCROLL SAW	PROXXON DSH	24X12X12		DESK	1
E-32	DRILL PRESS	DAYTON 3Z918F	24X18X60		FLOOR/CASTER	1
E-33	BAND SAW	ROCKWELL MODEL 14	24X28X60		FLOOR/CASTER	1
E-34	SLIDE MITER SAW	BOSCH CM10GD	33X26.5X27		DESK	1
E-35	WORK TABLES		60X47X34	28-34 AFF	FLOOR/CASTER	4
E-36	ELECTRIC REELS	HBLC40123TT				
E-37	TABLE SAW	CNS175-30			PORTABLE	1
E-38	BELT SANDER	JET J-4200A	22X26.5X55		FLOOR	1
E-39	AIR COMPRESSOR	INGERSOLL-RAND	20X30X70		FLOOR	1
E-39.1	PORTABLE AIR COMPRESSOR		46X19X24		FLOOR	1
E-40	PROJECTOR	POWERLITE 700U WUXGA				1
E-41	MILL	HAAS SUPER MINI MILL	96.07X83.38X95.39		FLOOR ANCHOR	1
E-42	WELDER	MIG 210 MP			PORTABLE	1
E-43	BAND SAW	JET 18" MODEL 414418	42X38		FLOOR/CASTER	1
E-44	ASSEMBLY TABLE		96X51X35	35	FLOOR	2
E-45	DOWN DRAFT TABLE	DENRAY MACHINE 3672B	72X36		FLOOR/CASTER	1
E-46	COMPRESSED AIR DROPS	RETRACTA R3 MACNAUGHT/GRACO L	18.5 DIA. X 8.8		CEILING	8
E-47	PORTABLE CABINET SAW	SAWSTOP CNS175-30	69X36X34		FLOOR/CASTER	1

#### EQUIPMENT SCHEDULE



#### **KEYNOTE LEGEND**

Key Value	Keynote Text
0320	TRENCH (E) CONCRETE SLAB FLOOR FOR NEW ELECTRICAL FLOORBOX
0401	(E) COLUMN W/ BRICK VENEER, TYP.
0503	(E) COLUMN, TYP.
0800	(N) DOOR AND FRAME, TYP.
0801	(E) DOOR AND FRAME, TYP.
0802	(E) GARAGE DOOR, TYP.
0803	(E) WINDOW, TYP.
0804	(N) WINDOW, TYP.
0807	(N) OPENING W/ BARN DOOR, TYP.
0903	(N) FRP WALL, TYP. WHEN DAMAGED.
1008	(E) FIRST AID KIT, RELOCATED.
1009	(E) FIRE EXTINGUISHER CABINET.
1063	(N) PAPER TOWEL DISPENSER, TYP.
1064	(N) SOAP DISPENSER, TYP.
1100	(E) EQUIPMENT, O.F.O.I, SEE SHEET A9.00.
1102	(N) SUPER MINI MILL W/ (N) ANCHOR, S.S.D.
1103	(E) DUST COLLERTOR W/ (N) ANCHOR, S.S.D.
1105	(N) ACCESSIBLE COMPUTER STATION
1200	(E) FURNISHING, BY COLLEGE.
1201	(E) TABLE AND CHAIRS, O.F.O.I., SEE SHEET A9.00.
2101	(E) FIRE RISER, TYP.
2208	(E) SCULLERY SINK W/ MODIFIED PLUMBING, DSA APP#01-106719
2300	(E) DUST COLLECTING SYSTEM, RELOCATED, S.M.D.
2308	(N) DUST COLLECTOR DUCT DROP, S.M.D. REFER TO 4/M0.02

(		TIFICATION S	
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		REVIEWED FC	DR
	ss 🗹	FLS 🗹	ACS 🗹
l	DATE:	6/12/202	

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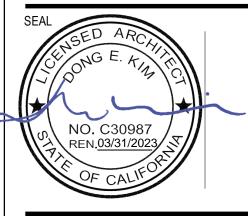
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ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607

Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

MECHANICAL ENGINEER H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 email:

ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:



#### PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

FLOOR PLAN -FABRICATION WORKSHOP

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#### GENERAL NOTES

AT THE ENTRY DOORS AND NEW INTERIOR DOORS:

 A. ½" MAXIMUM HIGH THRESHOLD (ABOVE FLOOR AND LANDING ON BOTH SIDES) AT BUILDING ENTRANCE/ALL DOORS (CHANGES IN LEVEL UP TO ¼" MAYBE VERTICAL AND WITHOUT EDGE TREATMENT; CHANGES IN LEVEL BETWEEN ¼" AND ½" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1 IN 2). (CBC SEC.11B-404.2.5, 11B-303.2, 11B-303.3).
 B. THE SURFACE SLOPE OF EXTERIOR PAVING NOT STEEPER THAN 1:48 (2%) UP TO DOOR'S THRESHOLD

FOR A MINIMUM DISTANCE OF 5 FEET OUT FROM THE EXTERIOR DOOR OPENINGS. (CBC SEC.11B-404.2.4.4).

C. NON-GRASP HARDWARE (I.E., LEVER) CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR. (CBC SEC.11B-404.2.7).

D. MAXIMUM DOOR OPENING FORCE: 5 LBS AT EXTERIOR AND INTERIOR DOORS. (CBC SEC.11B-404.2.9). E. MINIMUM DOOR CLOSING SPEED OF 5 SECONDS FROM AN OPEN POSITION OF 90 DEGREES TO A

 E. INTINITION DOOR CLOSING SPEED OF 5 SECONDS FROM AN OPEN POSITION OF 90 DEGREES TO A POSITION OF 12 DEGREES FROM THE LATCH. (CBC SEC.11B-404.2.8.1).
 F. 10" KICKPLATE AT BOTTOM OF SWINGING DOORS ON PUSH SIDE EXTENDING THE FULL WIDTH OF THE

DOOR. (CBC SEC.11B-404.2.10).

ACCESSIBLE TOILET COMPARTMENT DOORS: A. ARE TO BE EQUIPPED WITH SELF-CLOSING DEVICES. (CBC 11B-604.8.1.2.)

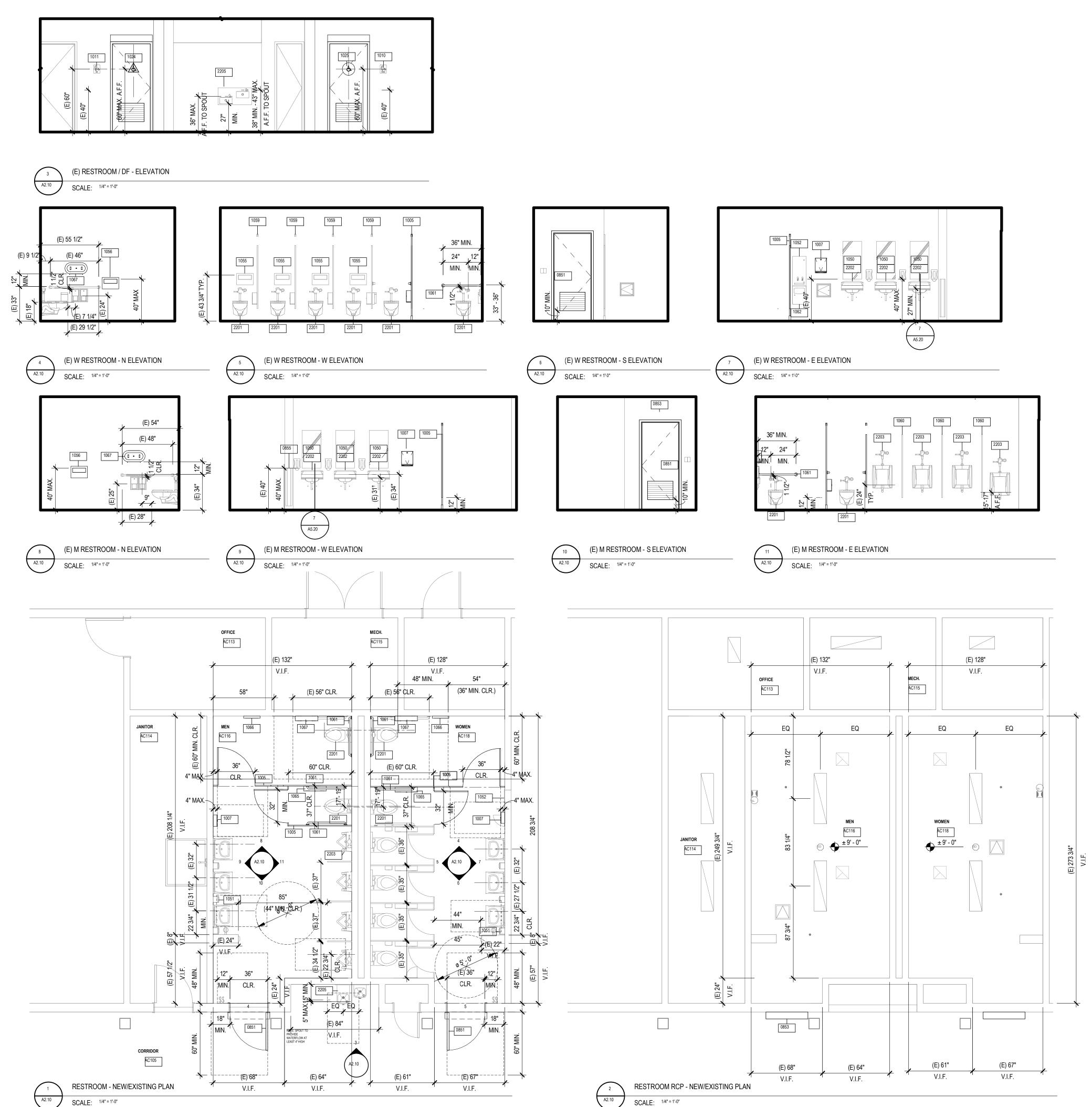
B. ARE TO BE EQUIPPED ON THE INSIDE AND OUTSIDE WITH DOOR PULL . (CBC 11B-604.8.1.2.)

LEGEND

(E) AND TO REMAIN

(N)

EQUIPMENT



Key Value	Keynote Text
0851	(E) DOOR AND FRAME, REINSTALLED.
0853	(E) CLOSER, REINSTALLED.
0855	(E) PUSH BAR ACTUATOR, TYP.
1005	(N) TOILET PARTITION, TYP., SEE 1/A5.04 AND 3/A5.04 FOR DETAIL
1007	(N) PAPER TOWEL DISPENSER, MAX. PROJECTION SHALL NOT EXCEED 4" TYP.
1010	(E) ROOM SIGNAGE, SEE DETAIL G0.02, TYPE 1A
1011	(E) ROOM SIGNAGE, SEE DETAIL G0.02, TYPE 1B
1024	(N) ROOM SIGNAGE, SEE DETAIL G0.02, TYPE 2B
1025	(N) ROOM SIGNAGE, SEE DETAIL G0.02, TYPE 2C
1050	(E) MIRROR, TYP.
1051	(E) SOAP DISPENSER, TYP.
1052	(E) SANITARY NAPKIN DISPENSER, TYP.
1055	(E) TOILET SEAT COVER DISPENSER, TYP.
1056	(E) TOILET SEAT COVER DISPENSER, REINSTALLED.
1059	(E) TOILET PARTITION, TYP.
1060	(E) URINAL PARTITION, TYP.
1061	(N) 36" GRAB BAR, TYP.
1062	(E) RECESSED WASTE RECEPTACLE.
1065	(N) TOILET TISSUE DISPENSER, TYP.
1066	(N) TOILET SEAT COVER DISPENSER, TYP.
1067	(E) TOILET TISSUE DISPENSER, REINSTALLED.
2201	(E) WATERCLOSET, TYP.
2202	(E) LAVATORY, TYP.
2203	(E) URINAL, TYP.
2205	(E) HI/LO DRINKING FOUNTAIN

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email:

e-mail:

OAKLAND, CA, 94607 Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER 37481 MAPLE ST., SUITE K FREMONT CA, 94536

#### Tel: 510.894.2984 e-mail: MECHANICAL ENGINEER 8517 EARHART RD., #230

OAKLAND, CA 94621 Tel: 510.569.2000

#### ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C

LAFAYETTE, CA 94549 Tel: 925.385.0649

SEAL

#### PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

#### FLOOR PLAN / INTERIOR **ELEVATIONS** -RESTROOMS

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GENERAL NOTES

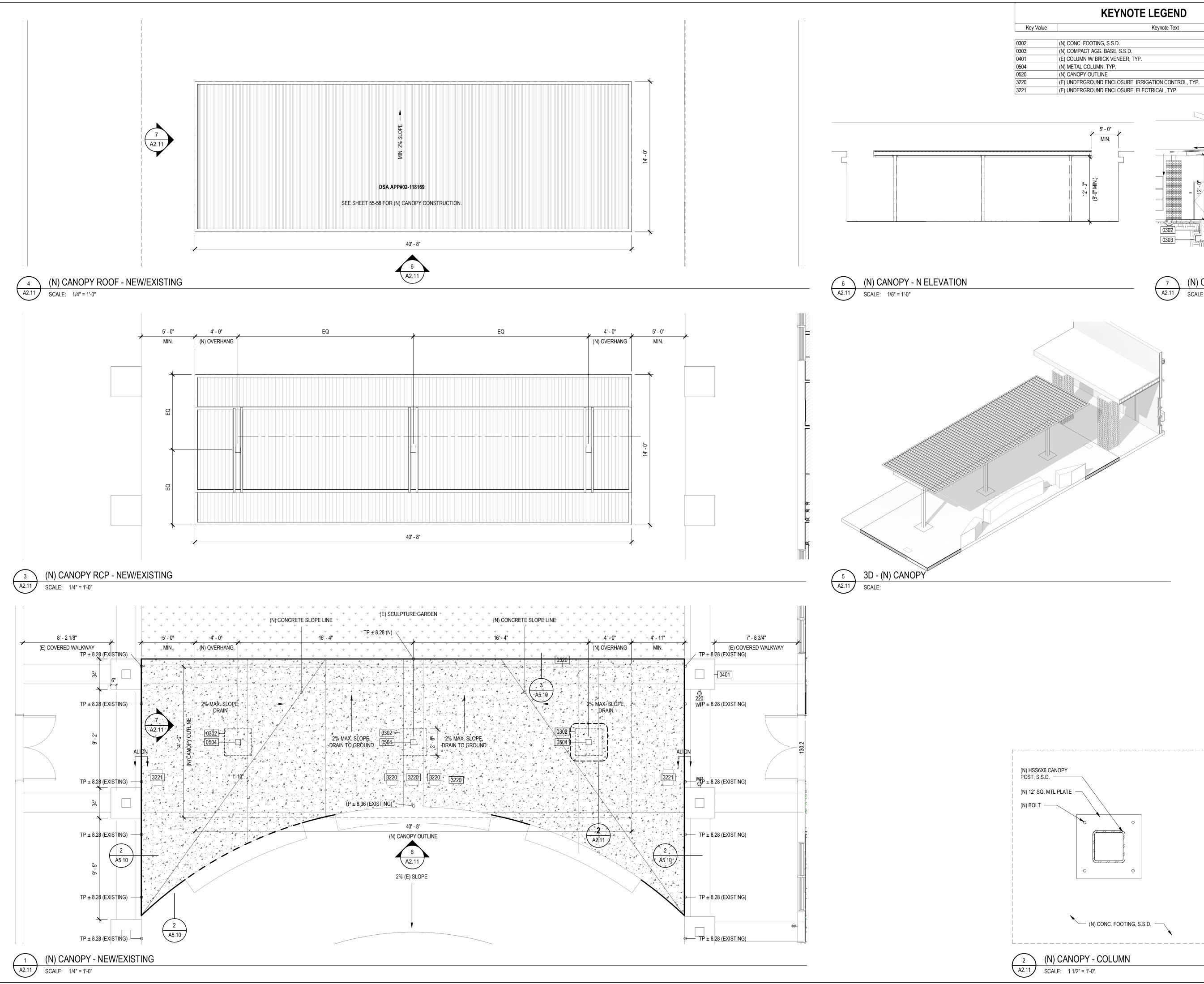
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- ACCESSIBLE TOILET COMPARTMENT DOORS: A. ARE TO BE EQUIPPED WITH SELF-CLOSING DEVICES. (CBC 11B-604.8.1.2.) B. ARE TO BE EQUIPPED ON THE INSIDE AND OUTSIDE WITH DOOR PULL . (CBC 11B-604.8.1.2.)

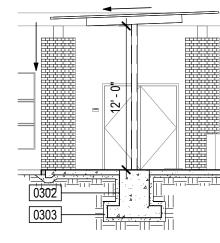
LEGEND

(E) AND TO REMAIN

(N)











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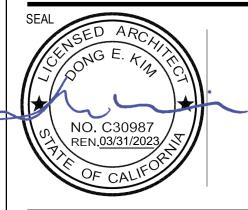
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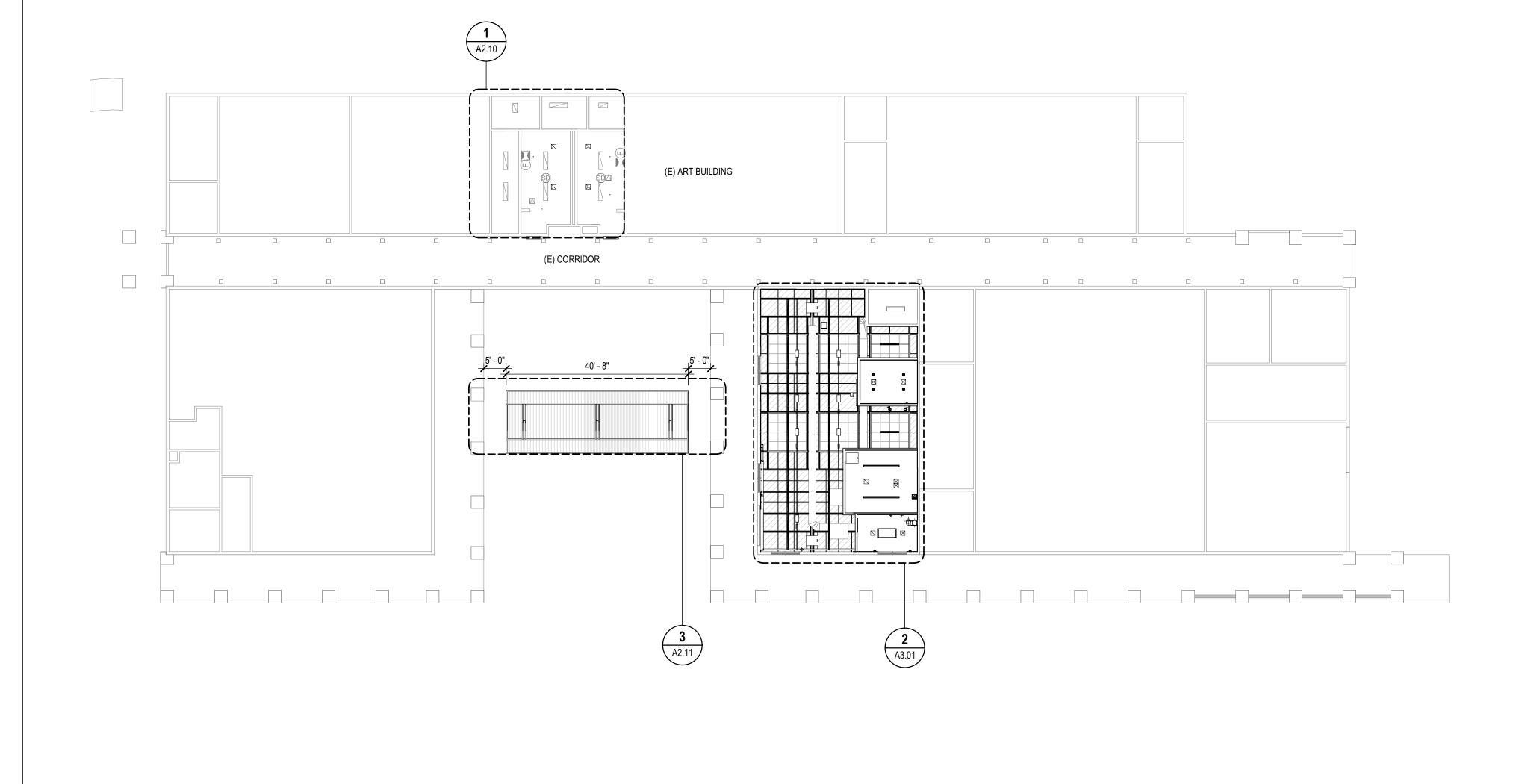
PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

# FLOOR PLAN - CANOPY

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SCALE: 1/16" = 1'-0"



#### **KEYNOTE LEGEND**

Keynote Text

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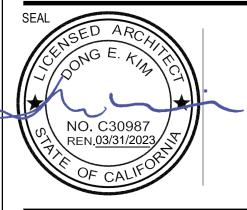
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# RCP - OVERALL

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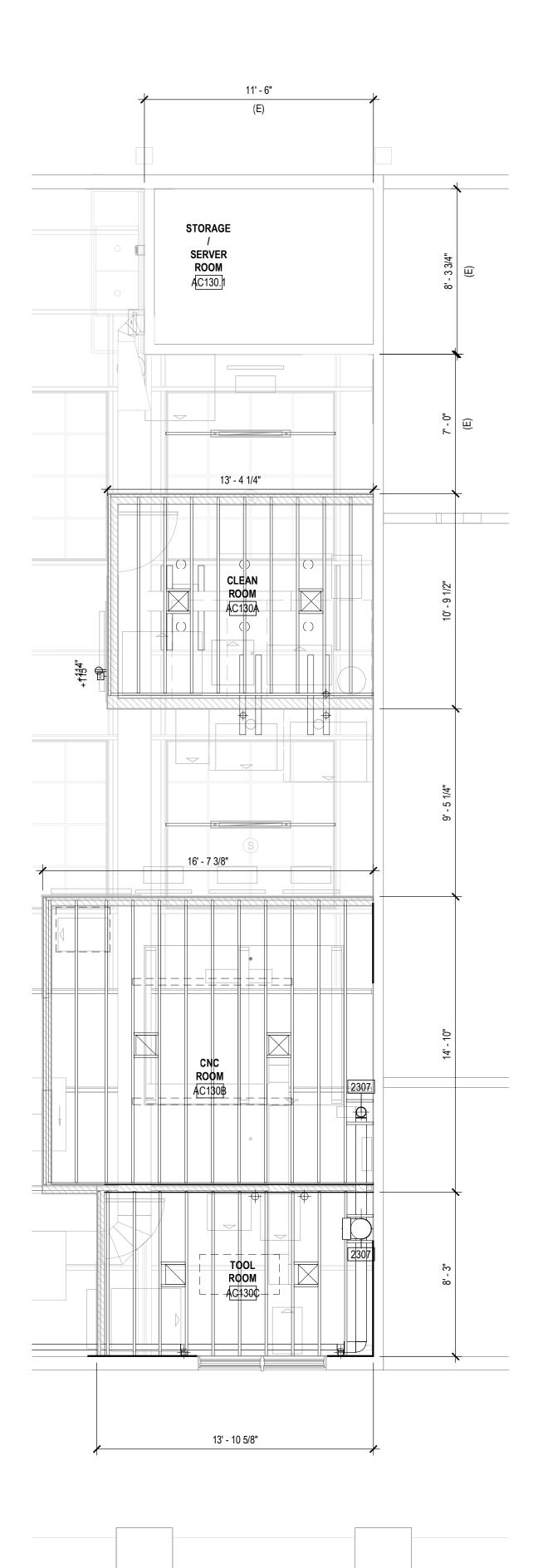
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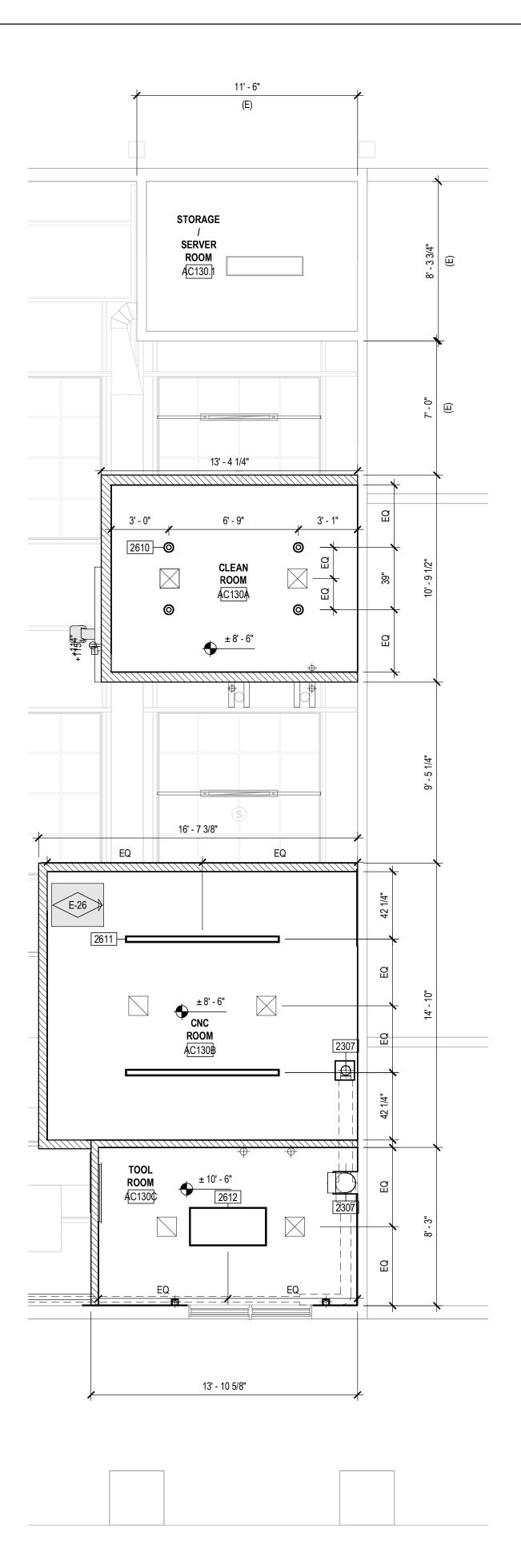
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NOTES

LEGEND



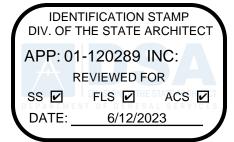








Key Value	Keynote Text
2307	(N) CUTOUT FOR DUST COLLECTOR DUCT
2610	(N) RECESSED DOWNLIGHT CAN FIXTURES, S.E.D.
2611	(N) SURFACE MOUNTED LINEAR TUBE FIXTURES, S.E.D.
2612	(N) 2X2 SURFACE MOUNTED FIXTURES, S.E.D.



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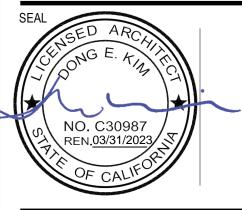
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**RCP - FABRICATION** WORKSHOP - LOWER **CEILING ROOMS** DRAWN: AD PLOT DATE: 3/2/2023 4:29:09 PM

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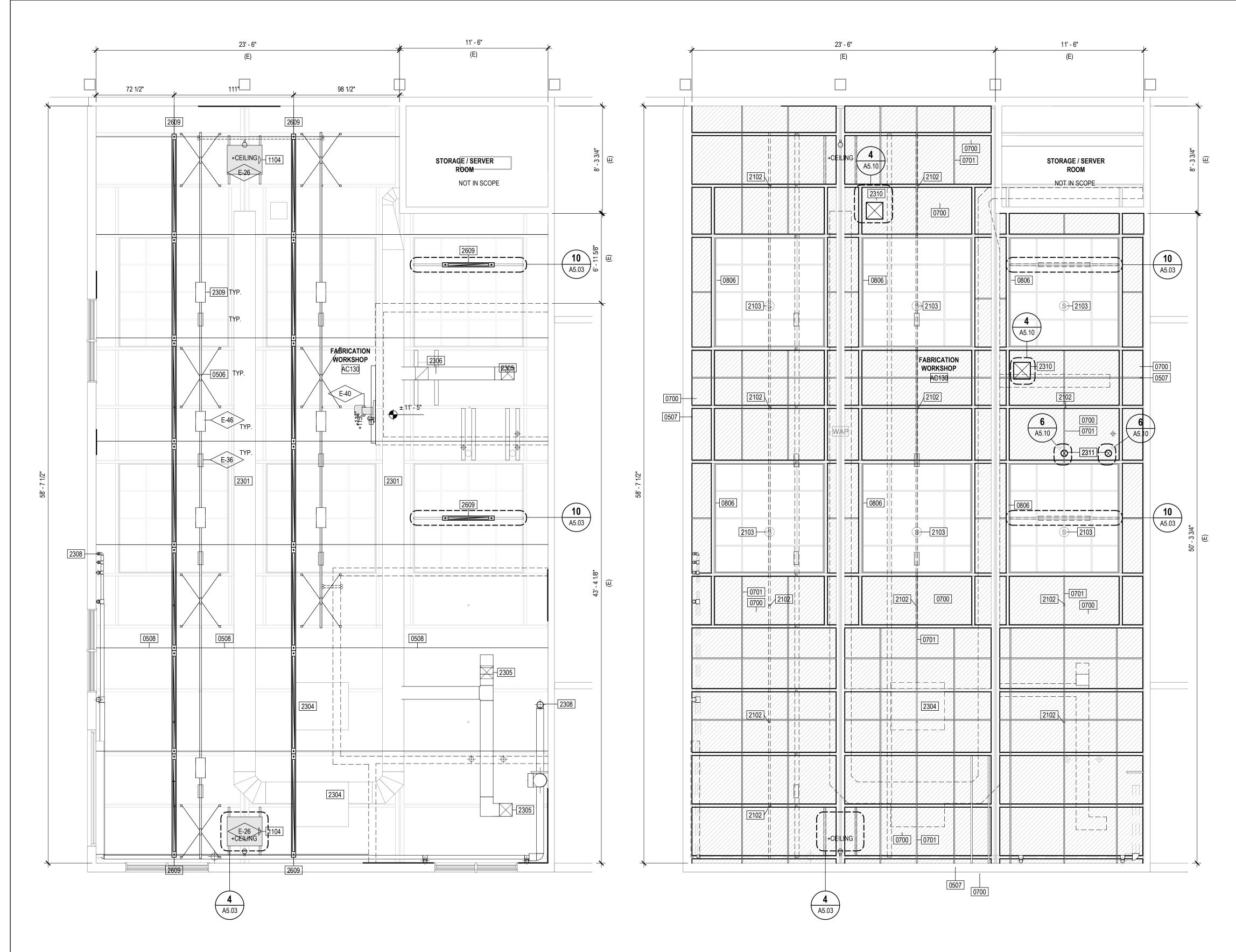
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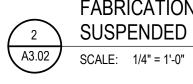
(E) AND TO REMAIN

(N)

(N) WALLS

(E) FIRE SPRINKLER





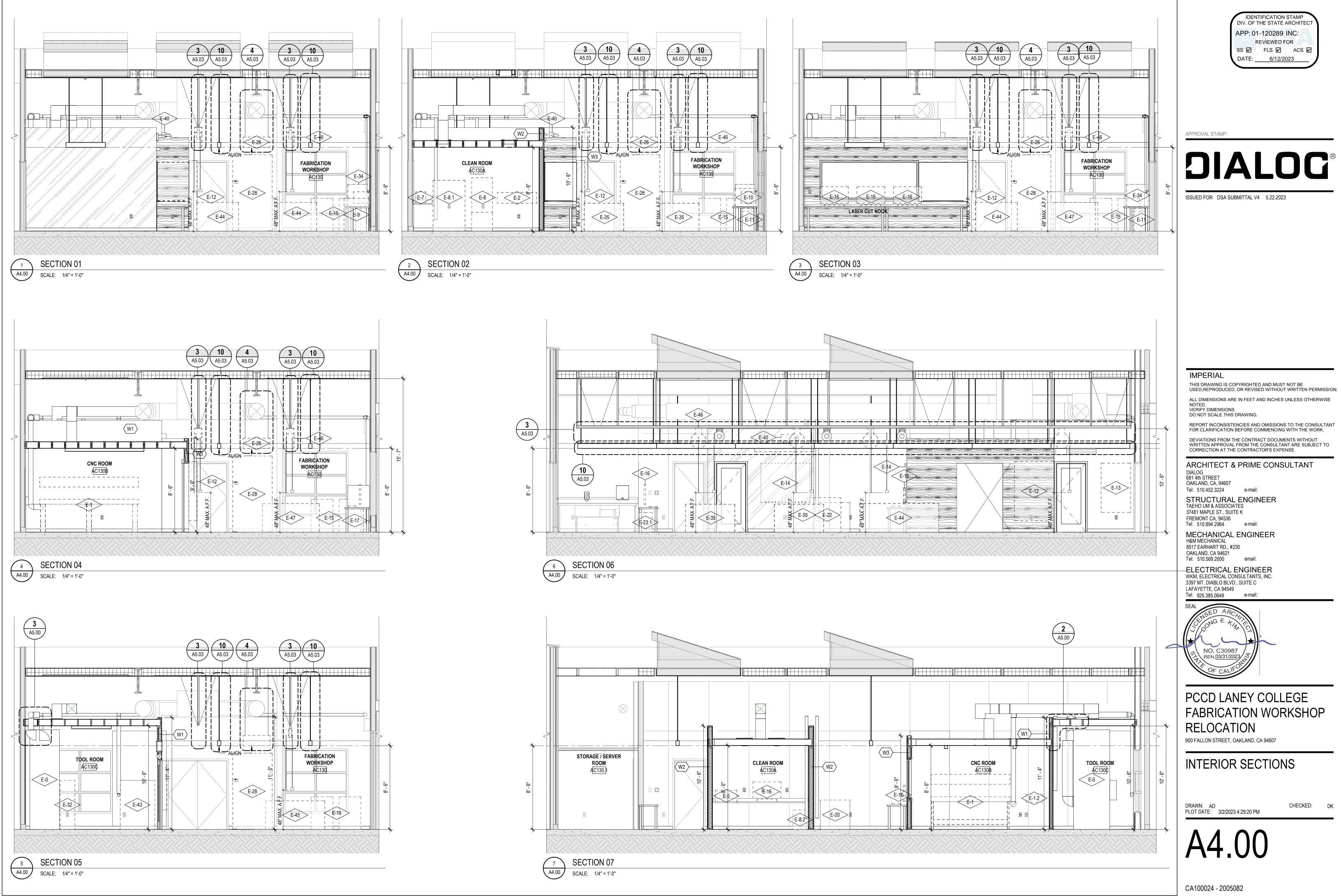
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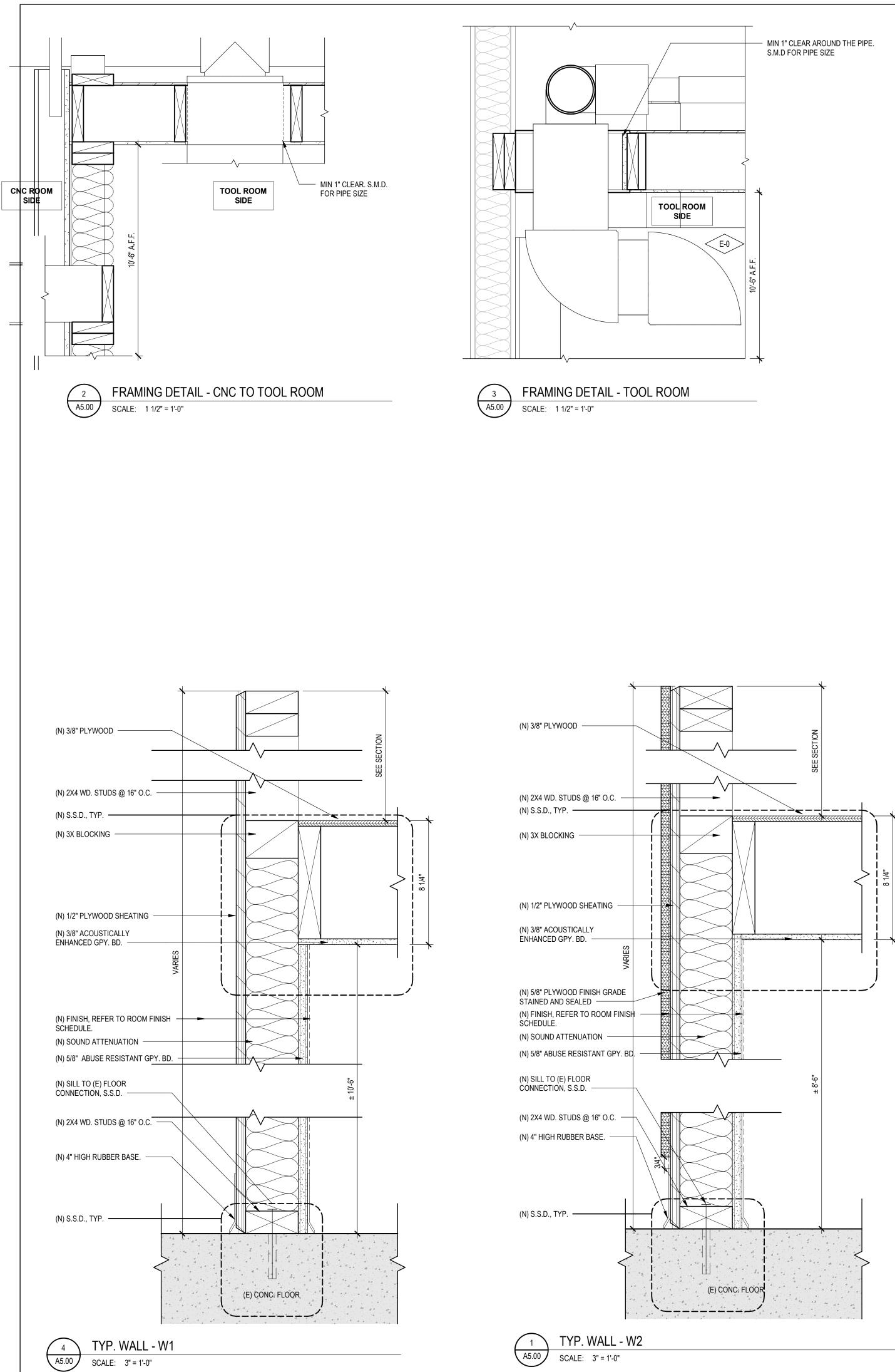


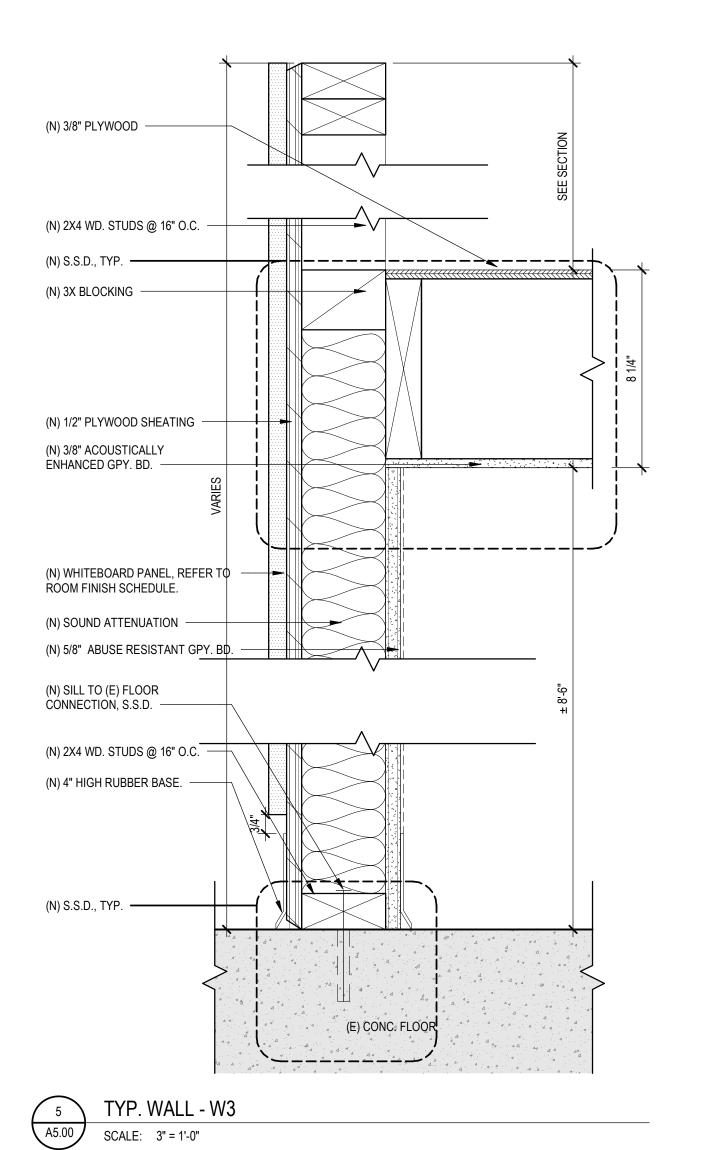


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	KEYNOTE LEGEND	IDENTIFICATION STAMP			
Key Value 06 07 08	Keynote Text         (N) CABLE STAYED SEISMIC BRACING, SEE 3/5.03, TYP., S.S.D.         (N) METAL SUPPORT STRAPS (BANDS), SEE 1/A5.03, TYP.         (N) PENDANT MOUNT LIGHT FIXTURE WIRE BRACE, SEE 10/A5.03, TYP.	DIV. OF THE STATE ARCHITECT APP: 01-120289 INC: REVIEWED FOR SS 🗹 FLS 🖉 ACS 🗹			
00 01 06	<ul> <li>(N) CEILING LINER FABRIC, TYP. SEE 1/A5.03</li> <li>(N) BI-DIRECTIONAL BANDING SYSTEM FOR CEILING LINER FABRIC, TYP. SEE 1/A.503</li> <li>(E) SKYLIGHT, TYP.</li> </ul>	DATE: <u>6/12/2023</u>			
14 12	(E) AIR FILTRATION W/ (N) ANCHOR, S.S.D. (E) FIRE SPRINKLER, TYP.				
3 1 4	(E) SMOKE DETECTOR, TYP. (E) DUCT, S.M.D. (E) MECHANICAL UNIT, S.M.D.				
5	(N) SUPPLY DROP, S.M.D. (N) SUPPLY DUCTS, S.M.D.				
8 9	<ul> <li>(N) DUST COLLECTOR DUCT DROP, S.M.D. REFER TO 4/M0.02</li> <li>(N) RETRACTABLE COMPRESSED AIR REEL, TYP. NOZZLE TO BE PULLED AT 48" MAX. AFF AT ACCESSIBLE STATION.</li> </ul>	APPROVAL STAMP:			
0	(N) EXHAUST FAN, S.M.D. (N) DUCT PENETRATION, S.M.D., S.P.D., SEE 6/A5.10 FOR PENETRATION DETAIL AND 5/A5.10				
9	FOR SLEEPERS DETAIL AS NEEDED (N) PENDANT LIGHT FIXTURE, S.E.D.	DIALOG			
		ISSUED FOR DSA SUBMITTAL V4 5.22.2023			
		IMPERIAL			
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		WRITTEN APPROVAL FROM THE CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE.			
	NOTES	ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607			
		Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER			
		TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536			
		Tel: 510.894.2984 e-mail: MECHANICAL ENGINEER			
		H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621			
		Tel: 510.569.2000 email: ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549			
		Tel: 925.385.0649 e-mail:			
		SLAL SED ARCAUSED ONG E. A. M. M.			
		the the			
		0 NO. C30987 REN. <u>03/31/2023</u>			
		OF CALIFOR			
		PCCD LANEY COLLEGE			
		FABRICATION WORKSHOP			
	LEGEND	RELOCATION			
		900 FALLON STREET, OAKLAND, CA 94607			
	(E) AND TO REMAIN	RCP - FABRICATION			
	(N)	WORKSHOP - UPPER			
	(IN) CEILING LINER FABRIC WITH BANDING SYSTEM	CEILING DRAWN: AD CHECKED: [			
	(E) FIRE SPRINKLER				
		DRAWN: AD CHECKED: [			





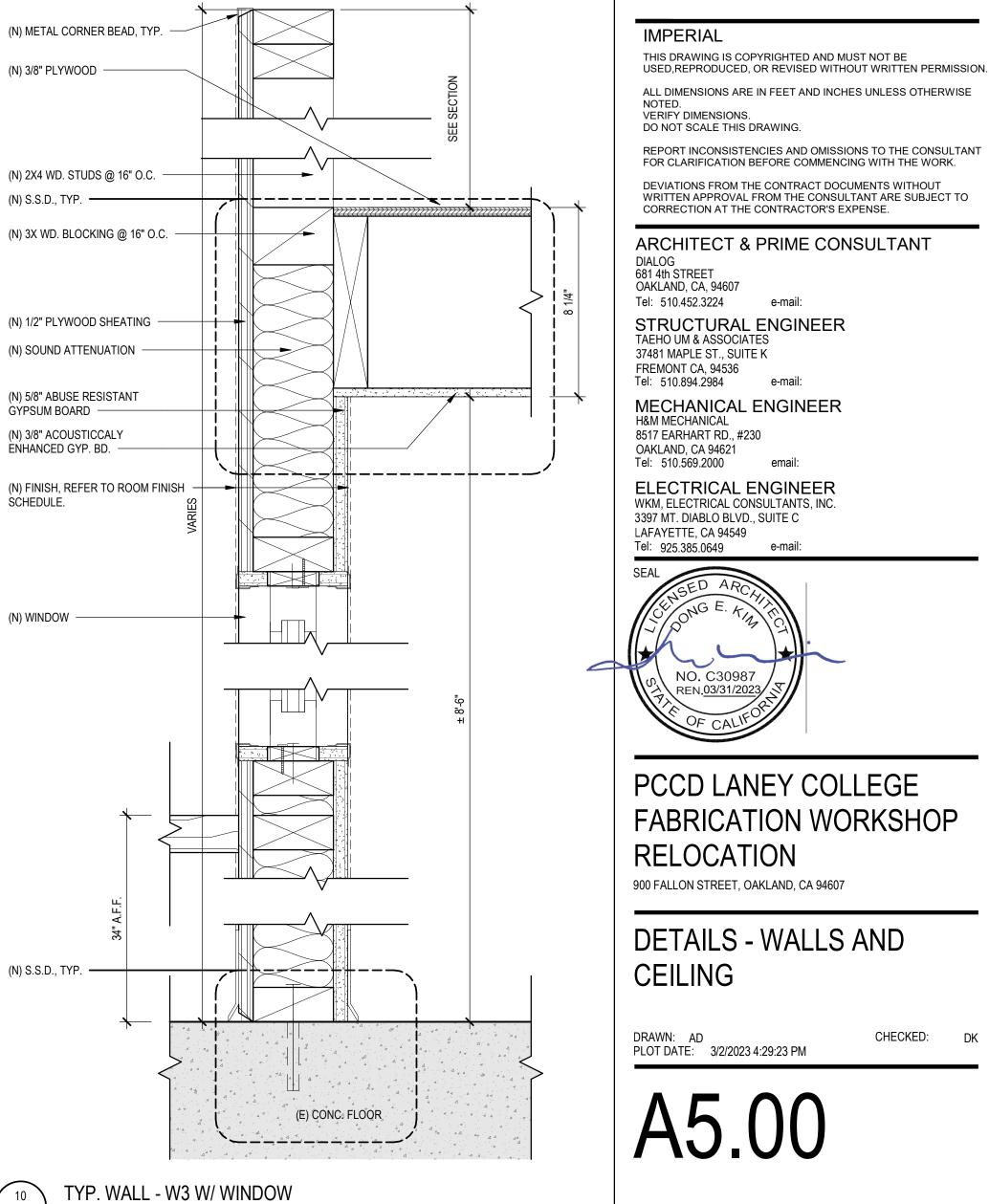


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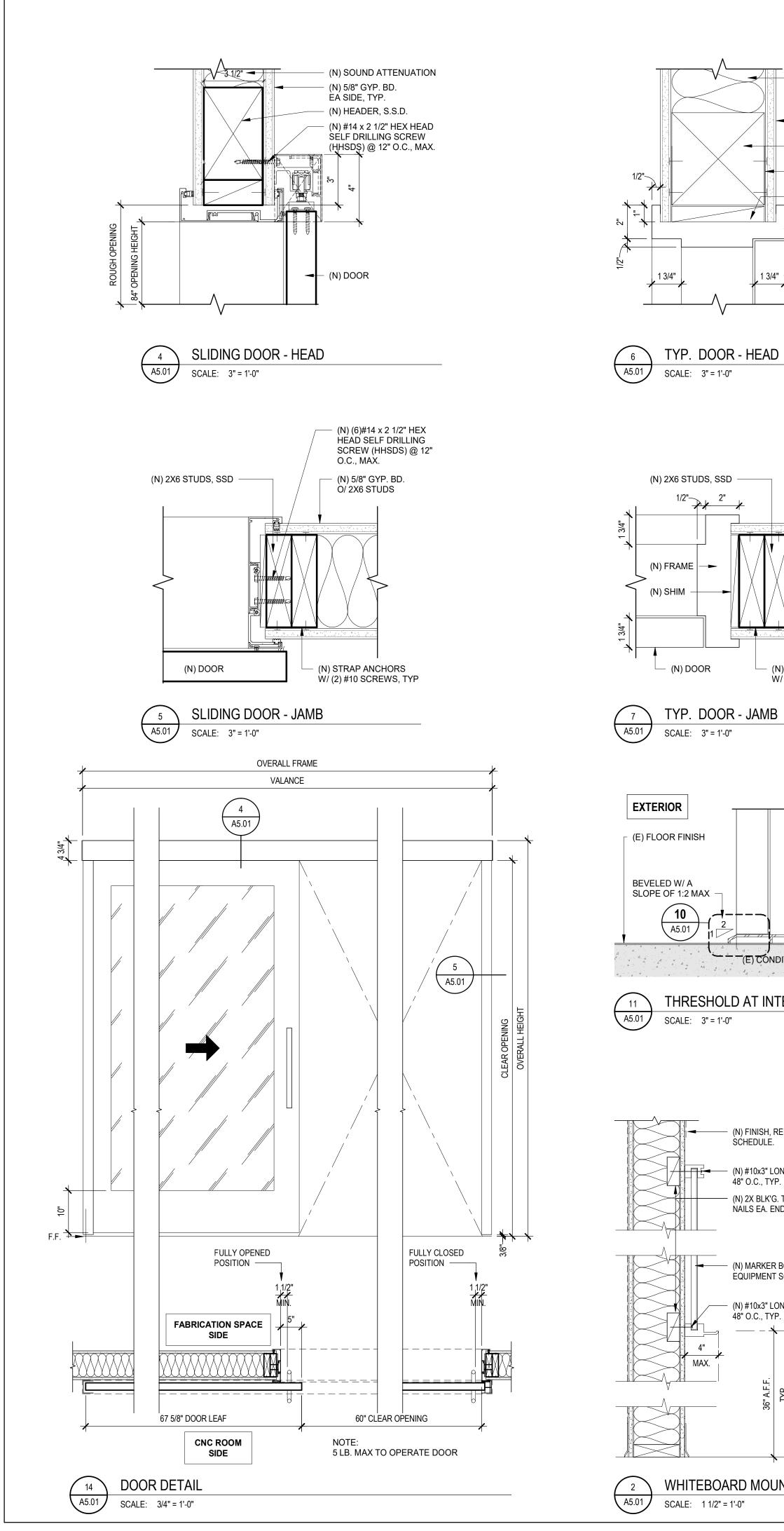
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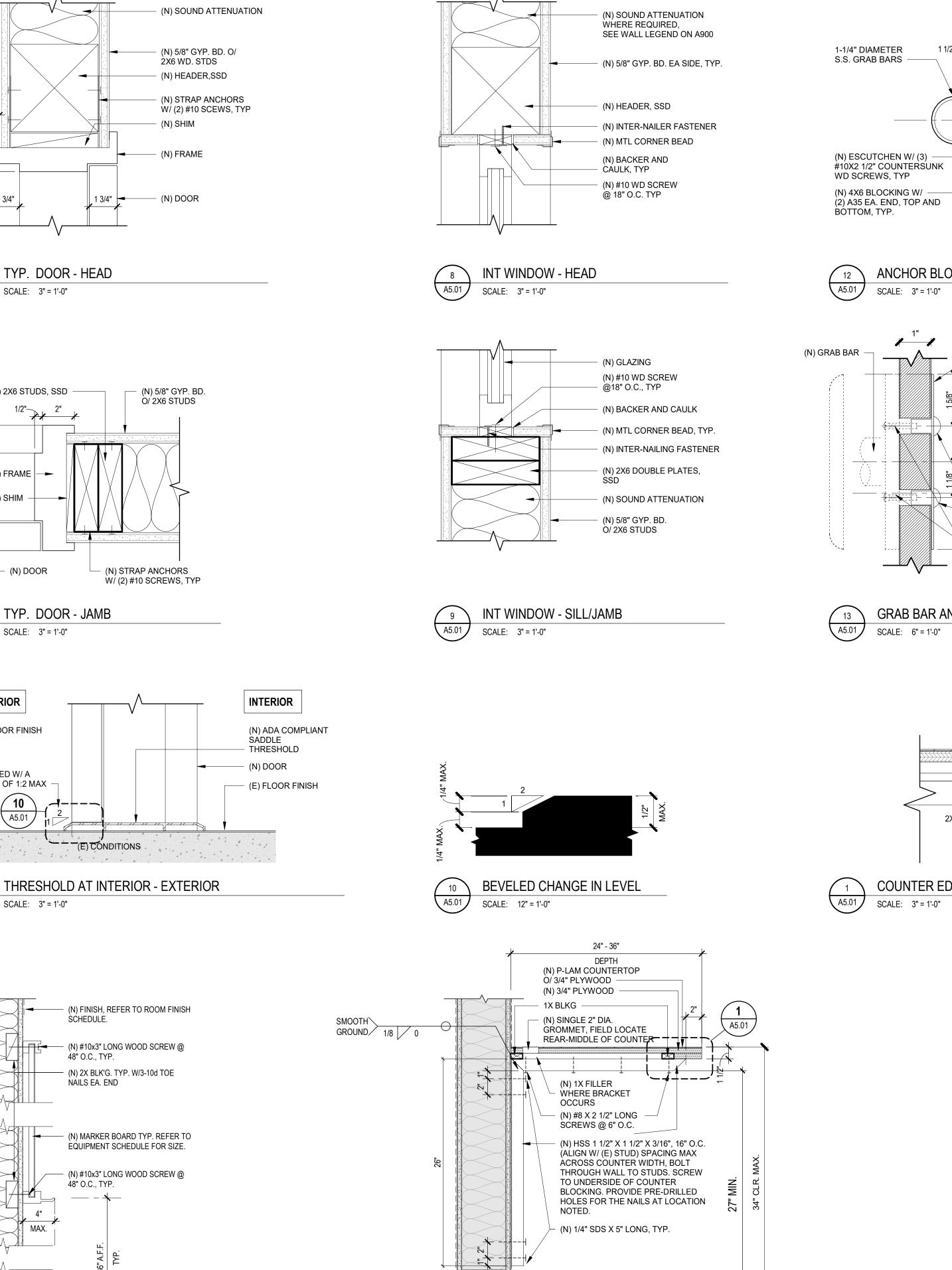


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SCALE: 3" = 1'-0"



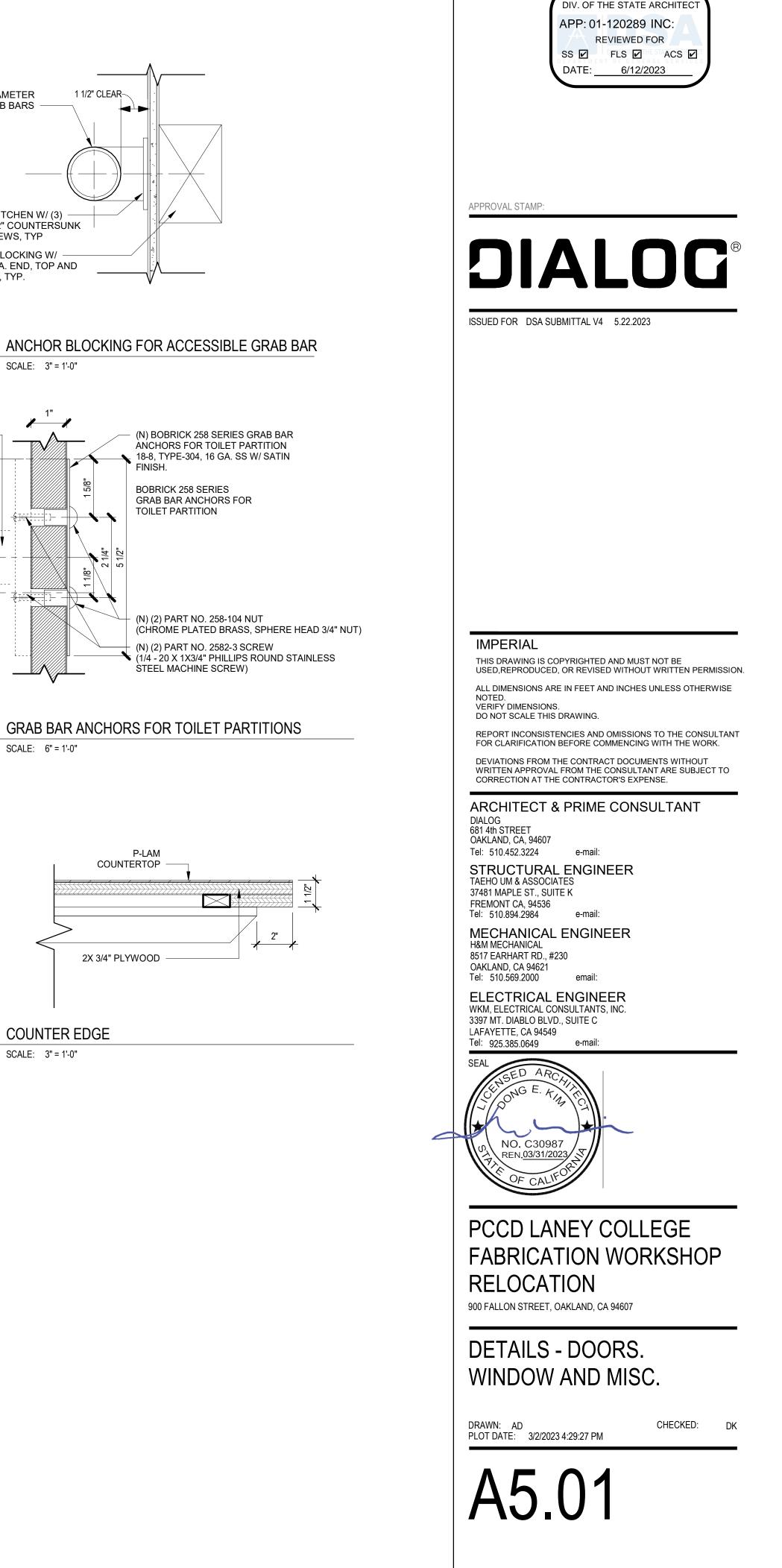




WORKBENCH COUNTER ON WALL A5.01 SCALE: 1 1/2" = 1'-0"

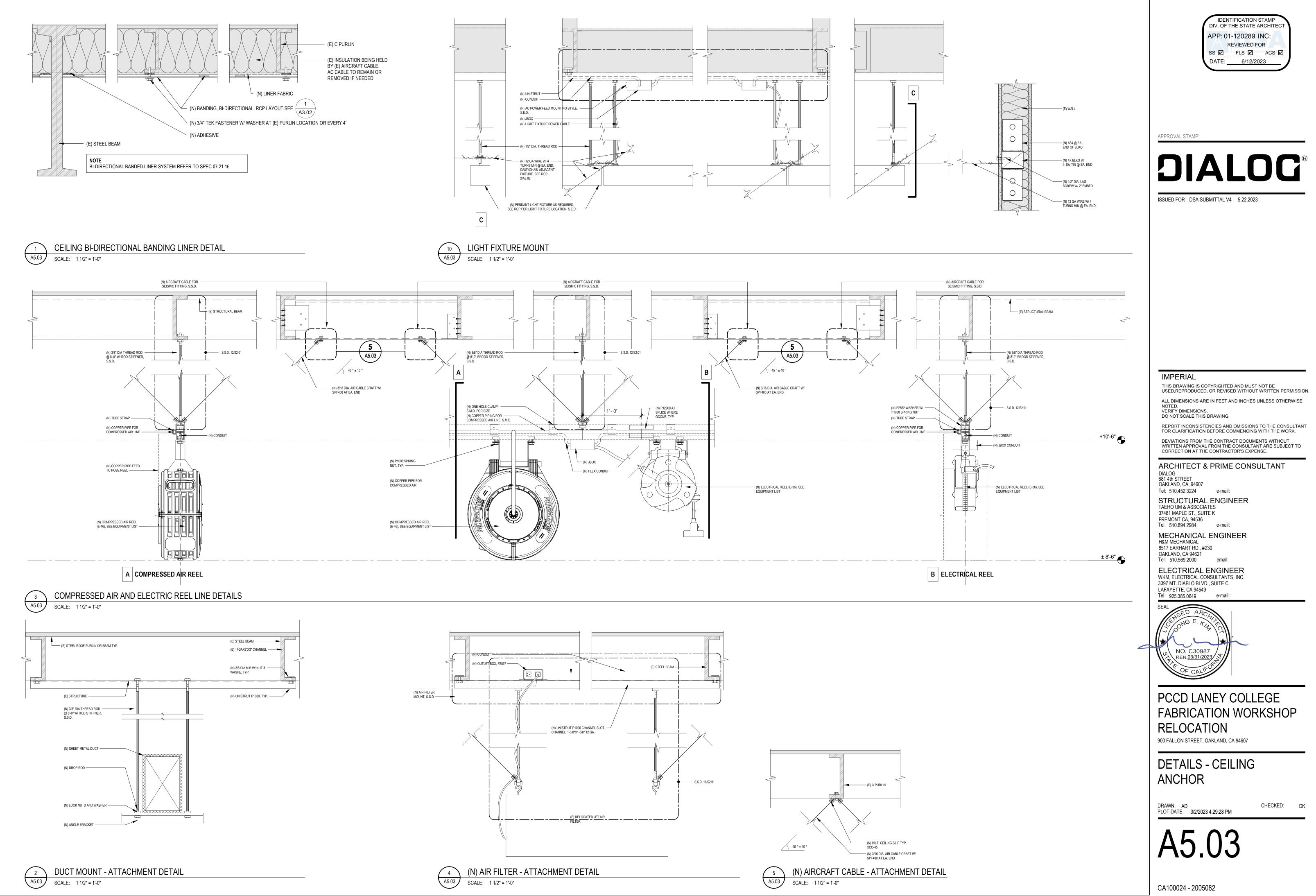
í 15

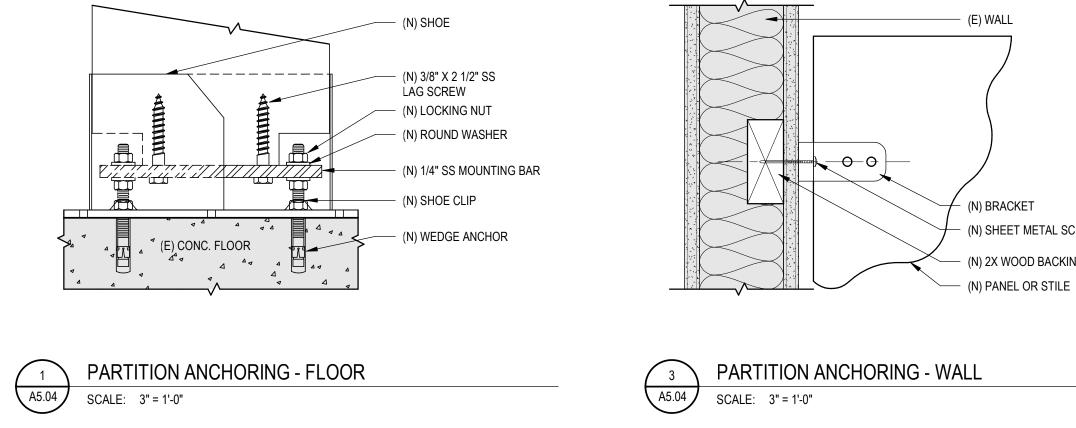
\_ (N) WALL AND BASE FINISH PER FINISH SCHEDULE.



IDENTIFICATION STAMP

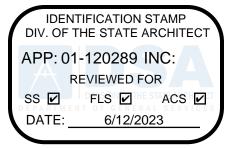
CA100024 - 2005082





- (N) SHEET METAL SCREW - (N) 2X WOOD BACKING

PROJECTOR MOUNT DETAIL 2 PROJECTOR A5.04 SCALE: 3" = 1'-0"



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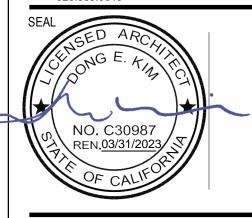
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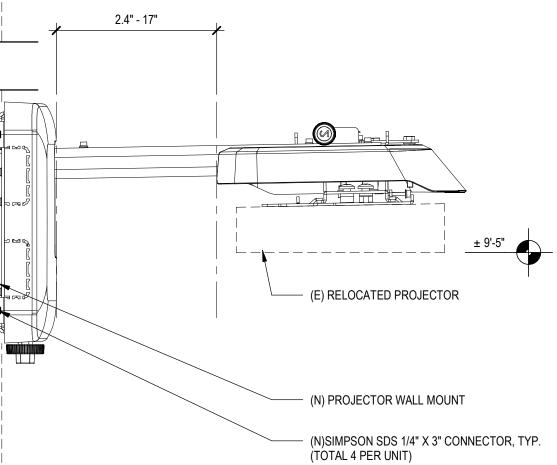
#### DETAILS - WALL, AND FLOOR ANCHOR

DRAWN: Author PLOT DATE: 3/2/2023 4:29:29 PM

CHECKED: Checker

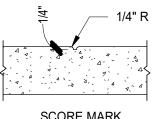
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#### CA100024 - 2005082

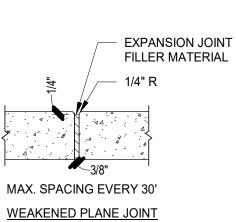


. AT - . A

WEAKENED PLANE JOINT







(N) CONC. SECTION 1/4" R #4X7" DOWEL @ 24" OC. (DRILL HOLE BLOW CLEAN AND SET DOWEL IN EPOXY)



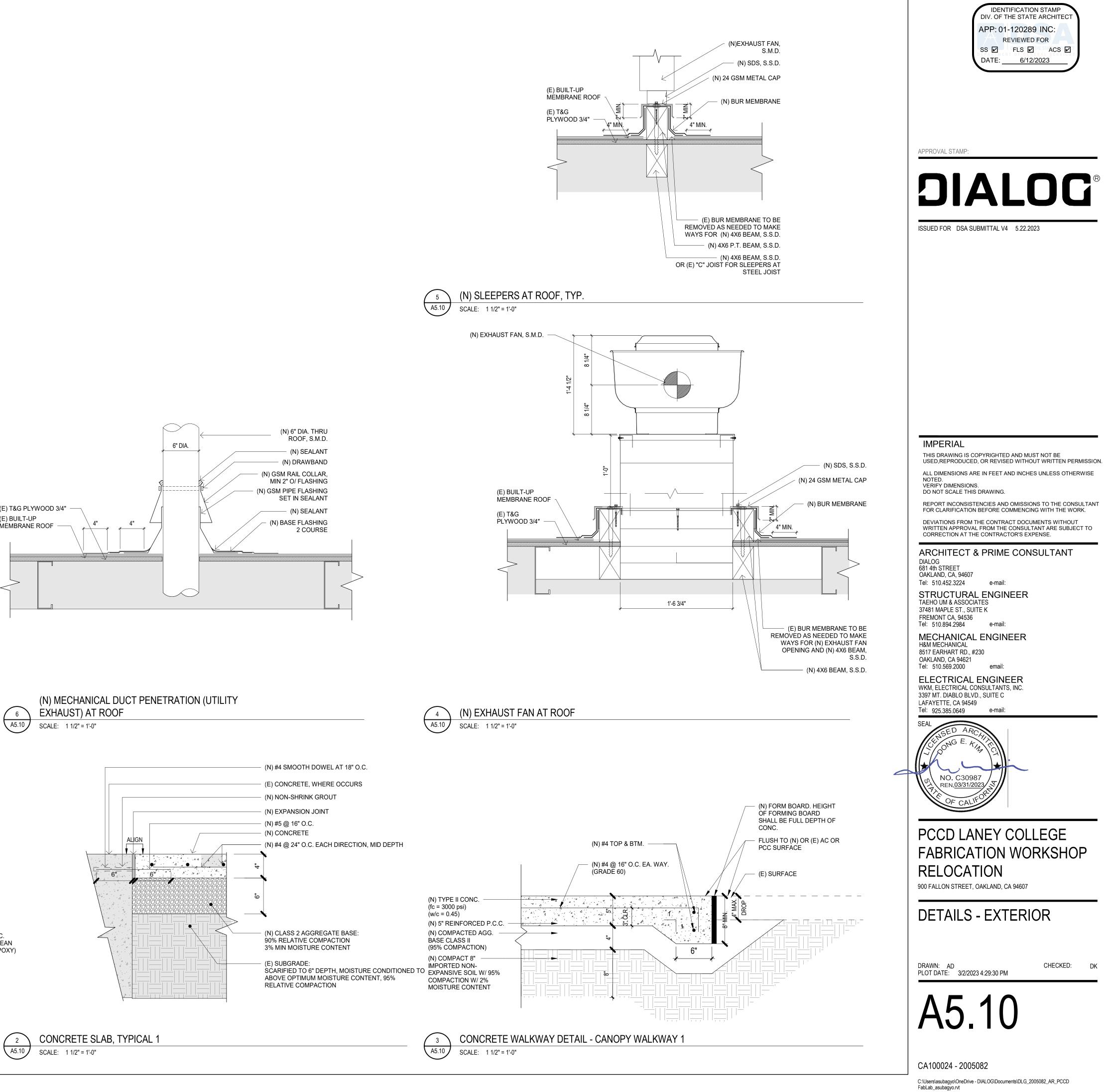
JOINT DETAIL - CANOPY WALKWAY 1 SCALE: 1 1/2" = 1'-0"

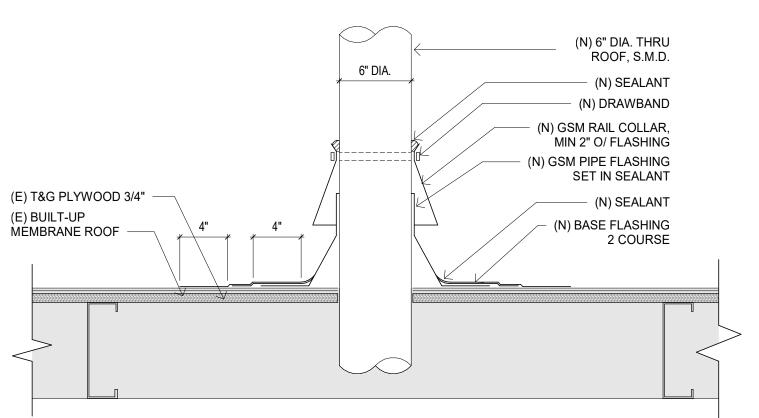


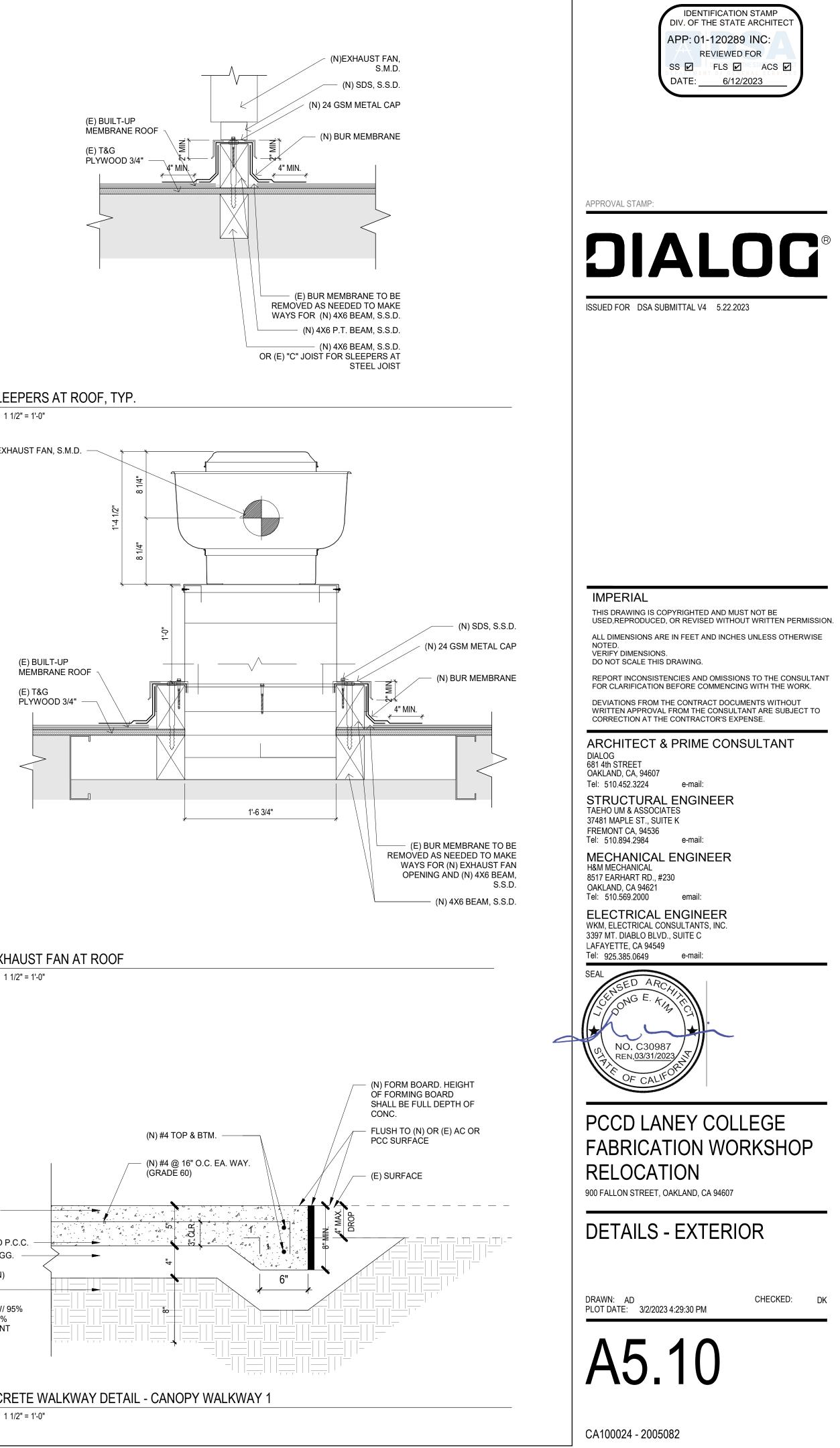


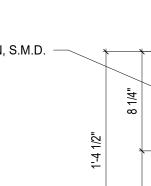




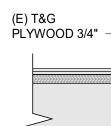


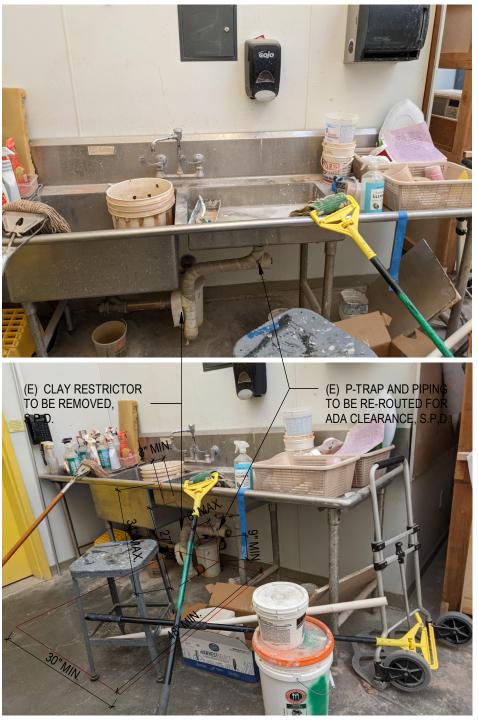


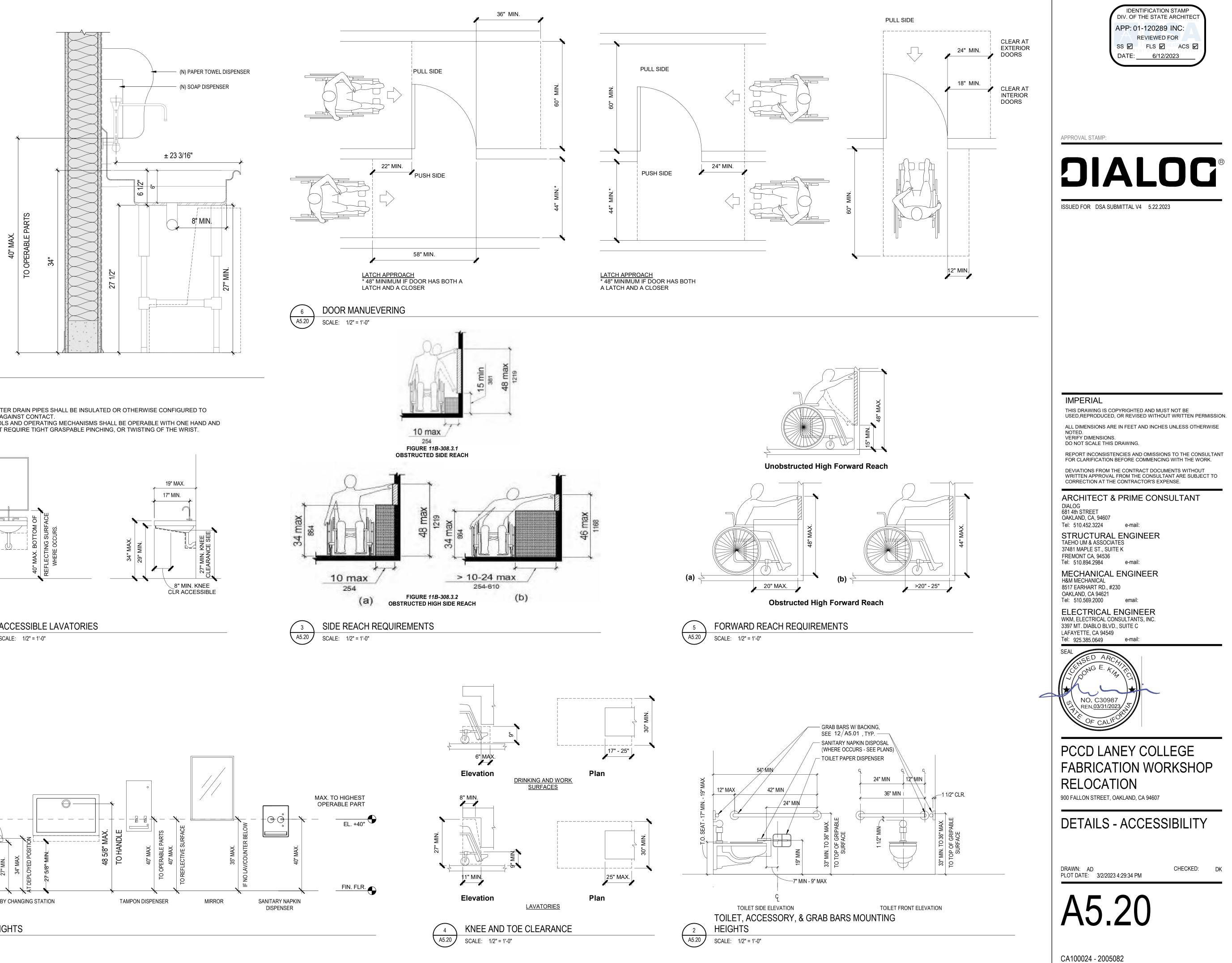




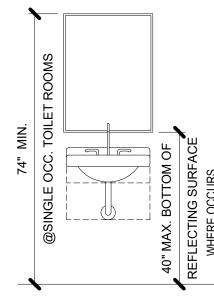


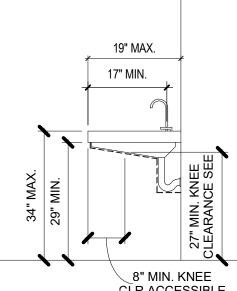




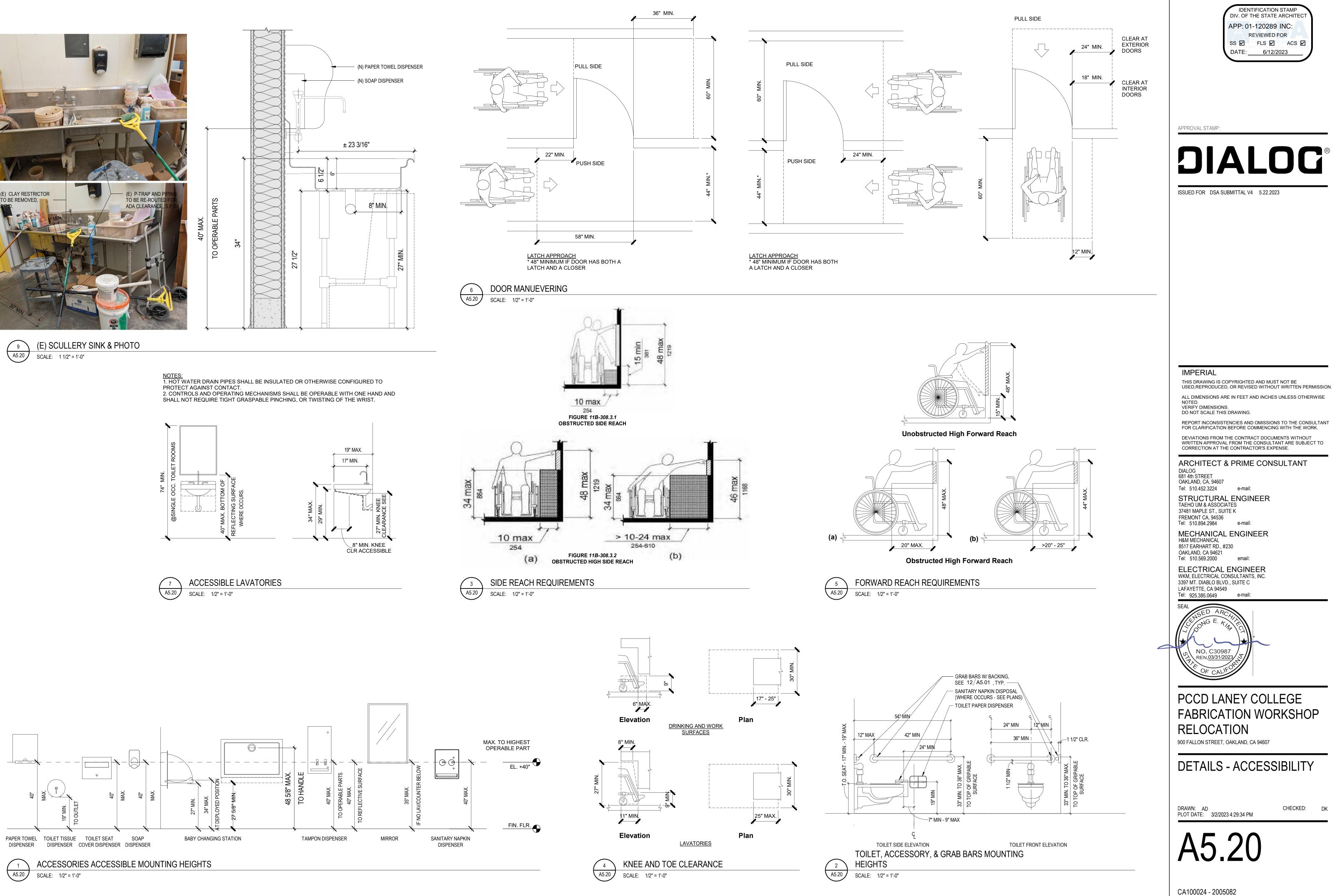




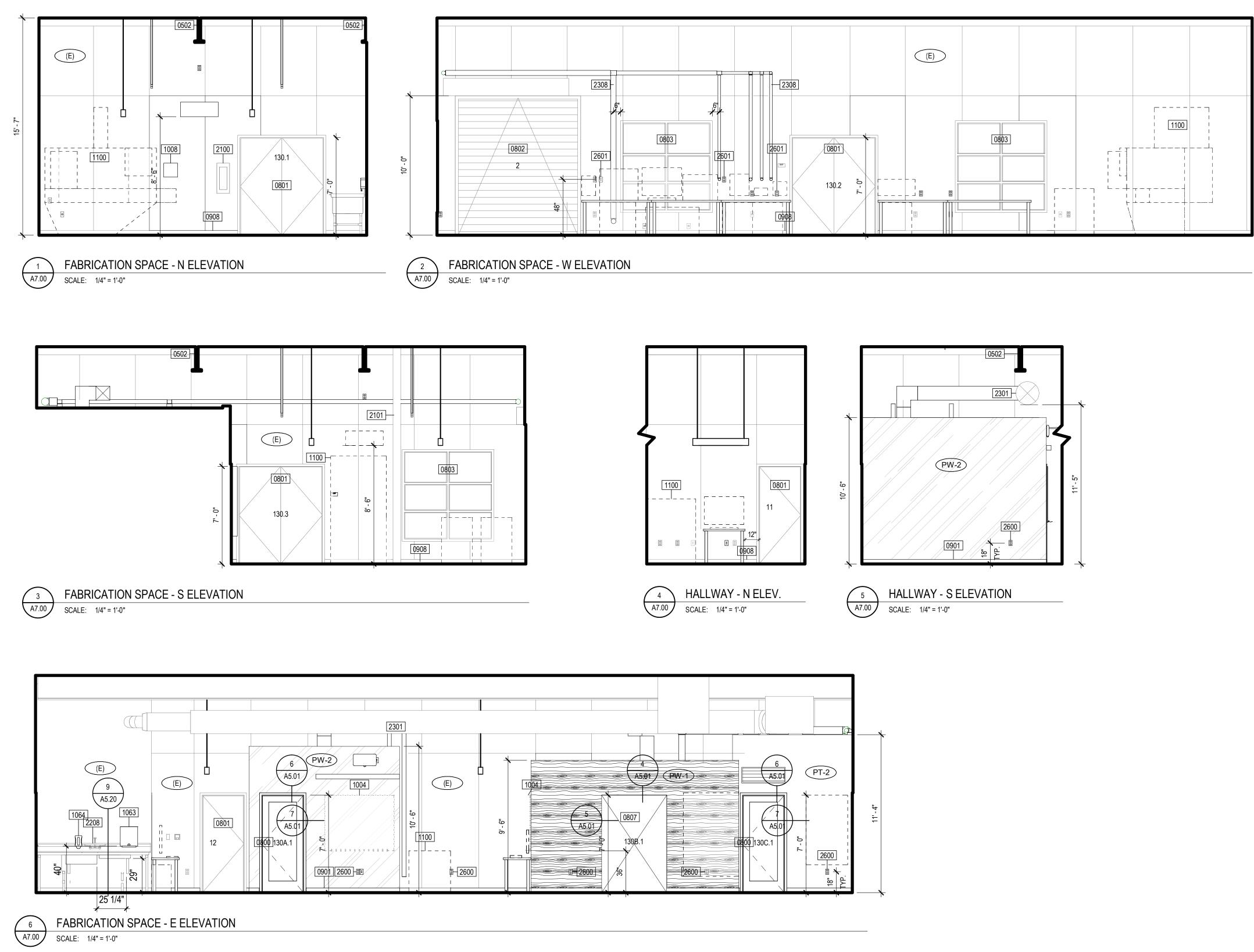








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Keynote Text
(E) ROOF BEAM, TYP.
(N) DOOR AND FRAME, TYP.
(E) DOOR AND FRAME, TYP.
(E) GARAGE DOOR, TYP.
(E) WINDOW, TYP.
(N) OPENING W/ BARN DOOR, TYP.
(N) 4" RUBBER BASE, TYP. U.O.N.
(E) 4" RUBBER BASE, TYP.
(N) WHITEBOARD, SEE DETAIL 2/A5.01, TYP., MOUNTING HEIGHT 36" A.F.F.
(E) FIRST AID KIT, RELOCATED.
(N) PAPER TOWEL DISPENSER, TYP.
(N) SOAP DISPENSER, TYP.
(E) EQUIPMENT, O.F.O.I, SEE SHEET A9.00.
(E) FIRE EXTIGUISHER CABINET, TYP.
(E) FIRE RISER, TYP.
(E) SCULLERY SINK W/ MODIFIED PLUMBING, DSA APP#01-106719
(E) DUCT, S.M.D.
(N) DUST COLLECTOR DUCT DROP, S.M.D. REFER TO 4/M0.02
(N) POWER RECEPTACLE, S.E.D.
(N) DATA RECEPTACLE, S.E.D.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 01-120289 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: 6/12/2023

APPROVAL STAMP:



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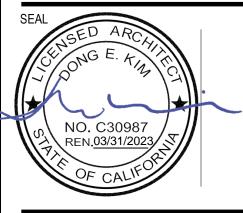
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PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

#### INTERIOR ELEVATIONS

DRAWN: AD PLOT DATE: 3/2/2023 4:29:39 PM

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LEGEND

(E) AND TO REMAIN

(N)

EQUIPMENT / N.I.C.



Key Value

Keynote Text

0502	(E) ROOF BEAM, TYP.
0800	(N) DOOR AND FRAME, TYP.
0803	(E) WINDOW, TYP.
0804	(N) WINDOW, TYP.
0807	(N) OPENING W/ BARN DOOR, TYP.
0901	(N) 4" RUBBER BASE, TYP. U.O.N.
1100	(E) EQUIPMENT, O.F.O.I, SEE SHEET A9.00.
2300	(E) DUST COLLECTING SYSTEM, RELOCATED, S.M.D.
2301	(E) DUCT, S.M.D.
2308	(N) DUST COLLECTOR DUCT DROP, S.M.D. REFER TO 4/M0.02
2600	(N) POWER RECEPTACLE, S.E.D.
2601	(N) DATA RECEPTACLE, S.E.D.
2604	(N) # PHASE POWER, S.E.D.

	NTIFICATION S THE STATE A	
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ss 🗹	FLS 🗹	ACS 🗹
DATE:	6/12/20	023
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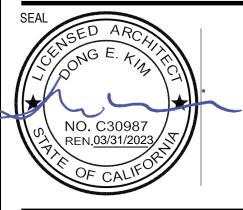
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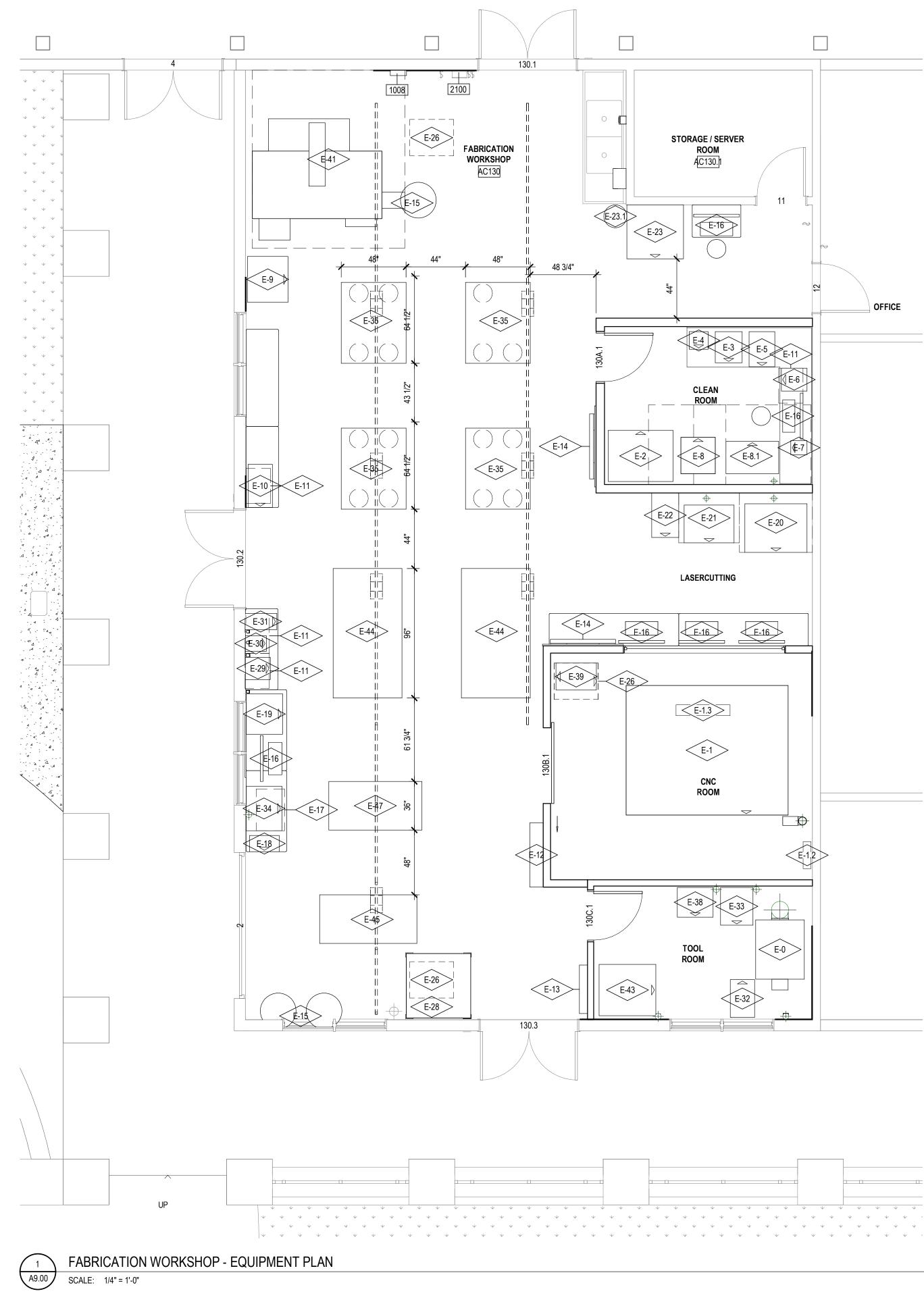
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LEGEND

(E) AND TO REMAIN

EQUIPMENT / N.I.C.

(N)



IAG		INIODEL
E-0	DUST COLLECTER	DONALDSON TORRIT U
E-1		SHOPBOT - SPINDLE - P
E-1.2	CNC TABLE - ACCESSORIES	SHOPBOT - CONTROL B
E-1.3	CNC TABLE - ACCESSORIES	SHOPBOT - VAC PUMP
E-2	UV PRINTER	ROLAND LEF2-200
E-3	3D PRINTER	ULTIMAKER S5
E-4	3D PRINTER	FORM 2
E-5	3D PRINTER	MOJO
E-6	3D PRINTER - ACCESSORIES	WAVEWASH
E-7	3D PRINTER - ACCESSORIES	FORM 2 ACCESSORIES
E-8	3D PRINTER	FUSE 1
E-8.1	3D PRINTER	FUSE SIFT
E-8.2	3D PRINTER	FUSE 1 VACUUM
E-9	VINYL CUTTER	CAMM-1 GS-24
E-10	HEAT PRESS	
E-11	RED TOOL BOX	WESTWARD
E-12	HAND TOOL STORAGE	
E-13	SAFETY TOOLS + SCREW STORAGE	
E-14	WHITEBOARD	
E-15	WASTE BIN	
E-16	COMPUTER - ALL IN ONE	WORKSTATION
E-17	COMPUTER - LAPTOPS	STORAGE
E-18	CNC DESKTOP	POCKET NC
E-19	MILL DESKTOP	ROLAND MDX-40A
E-20	LASER CUTTER	UNIVERSAL PLS6.150D
E-20	LASER CUTTER	EPILOG HELIX
E-21	THERMOFORM	FORMECH COMPAC MIN
E-22 E-23	WATERJET - MAIN PUMP	PROTO MAX
E-23 E-23.1	WATERJET - MAIN POMP	PROTO MAX
	PUMP	
E-26	AIR FILTRATION	JET
E-28	LUMBER RACK	
E-29	SPINDLE SANDER	GRIZZLY INDUSTRIAL T
E-30	ROUTER	FESTOOL MFK700 EQ
E-31	SCROLL SAW	PROXXON DSH
E-32	DRILL PRESS	DAYTON 3Z918F
E-33	BAND SAW	ROCKWELL MODEL 14
E-34	SLIDE MITER SAW	BOSCH CM10GD
E-35	WORK TABLES	
E-36	ELECTRIC REELS	HBLC40123TT
E-37	TABLE SAW	CNS175-30
E-38	BELT SANDER	JET J-4200A
E-39	AIR COMPRESSOR	INGERSOLL-RAND
E-39.1	PORTABLE AIR COMPRESSOR	
E-40	PROJECTOR	POWERLITE 700U WUX
E-41	MILL	HAAS SUPER MINI MILL
E-42	WELDER	MIG 210 MP
E-43	BAND SAW	JET 18" MODEL 414418
	ASSEMBLY TABLE	
F-44		1
E-44 F-45		DENRAY MACHINE 3672
E-45	DOWN DRAFT TABLE	DENRAY MACHINE 3672 RETRACTA R3 MACNAL
		DENRAY MACHINE 3672 RETRACTA R3 MACNAU SAWSTOP CNS175-30

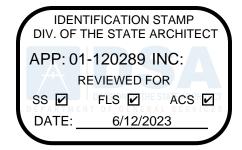
TAG

ITEM



	EQUIPMENT SC	HEDULE			
EM	MODEL#	DIMENSION (LxWxH)	MOUNTING HT	MOUNTING	C
TER	DONALDSON TORRIT UNIMASTER 250	36X52X121.3		FLOOR ANCHOR	1
	SHOPBOT - SPINDLE - PRSalpha ATC	96X120X67		FLOOR/CASTER	1
ACCESSORIES	SHOPBOT - CONTROL BOX		38-48 AFF	WALL	1
CCESSORIES	SHOPBOT - VAC PUMP			UNDERNEATH TABLE	1
	ROLAND LEF2-200	48X38X22		FLOOR	1
	ULTIMAKER S5	20X23X31		DESK	1
	FORM 2	13X14X21		DESK	1
	MOJO	29X26X21		DESK	1
ACCESSORIES	WAVEWASH	19X17X18		DESK	1
ACCESSORIES					-
AUCESSURIES	FORM 2 ACCESSORIES	10.5X12		DESK	1
	FUSE 1	25.4X27X65		FLOOR	1
	FUSE SIFT	24X39X61.8		FLOOR	1
	FUSE 1 VACUUM			FLOOR	1
8	CAMM-1 GS-24	30X34X40		FLOOR/CASTER	1
		32X18		DESK	1
X	WESTWARD	26X18		UNDERCOUNTER	4
TORAGE		48X72		WALL	1
S + SCREW		36X60		WALL	1
		72W	36 AFF	WALL	
		26.5 DIA.	40	FLOOR/CASTER	3
ALL IN ONE	WORKSTATION			FLOOR	10
APTOPS	STORAGE			FLOOR/CASTER	5
>	POCKET NC	12X22X17		DESK	1
כ	ROLAND MDX-40A	27X30X22		DESK	1
R	UNIVERSAL PLS6.150D	(46+4R)X(36+8B)X36		FLOOR/CASTER	1
R	EPILOG HELIX	(37+4L)X(28+9B)X40		FLOOR/CASTER	1
Λ	FORMECH COMPAC MINI	33X20X42		FLOOR/CASTER	1
iain pump	PROTO MAX	40X42X56		FLOOR/CASTER	1
ISCHARGE	PROTO MAX	17 DIA.	24	FLOOR/CASTER	1
N	JET	27X32.5X12.5		CEILING	3
χ		36X48X84		FLOOR/CASTER	F
DER	GRIZZLY INDUSTRIAL T27417	16.5X18.5X18.5		FLOOR	1
JER	FESTOOL MFK700 EQ	15.5X11.5X6.5		DESK	1
				DESK	-
	PROXXON DSH DAYTON 3Z918F	24X12X12			1
		24X18X60		FLOOR/CASTER	1
2010/	ROCKWELL MODEL 14	24X28X60		FLOOR/CASTER	1
SAW	BOSCH CM10GD	33X26.5X27	00.04.455	DESK	1
		60X47X34	28-34 AFF	FLOOR/CASTER	4
ELS	HBLC40123TT				
	CNS175-30			PORTABLE	1
	JET J-4200A	22X26.5X55		FLOOR	1
SOR	INGERSOLL-RAND	20X30X70		FLOOR	1
R COMPRESSOR	ROLAIR 6820MK103	46X19X24		FLOOR	1
	POWERLITE 700U WUXGA				1
	HAAS SUPER MINI MILL	96.07X83.38X95.39		FLOOR ANCHOR	1
	MIG 210 MP			PORTABLE	1
	JET 18" MODEL 414418	42X38		FLOOR/CASTER	1
BLE		96X51X35	35	FLOOR	2
TABLE	DENRAY MACHINE 3672B	72X36		FLOOR/CASTER	1
AIR DROPS	RETRACTA R3 MACNAUGHT/GRACO L	18.5 DIA. X 8.8		CEILING	8
		001/201/24			4

69X36X34



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FLOOR/CASTER

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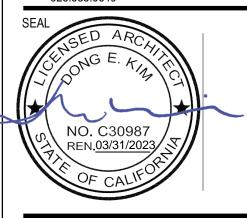
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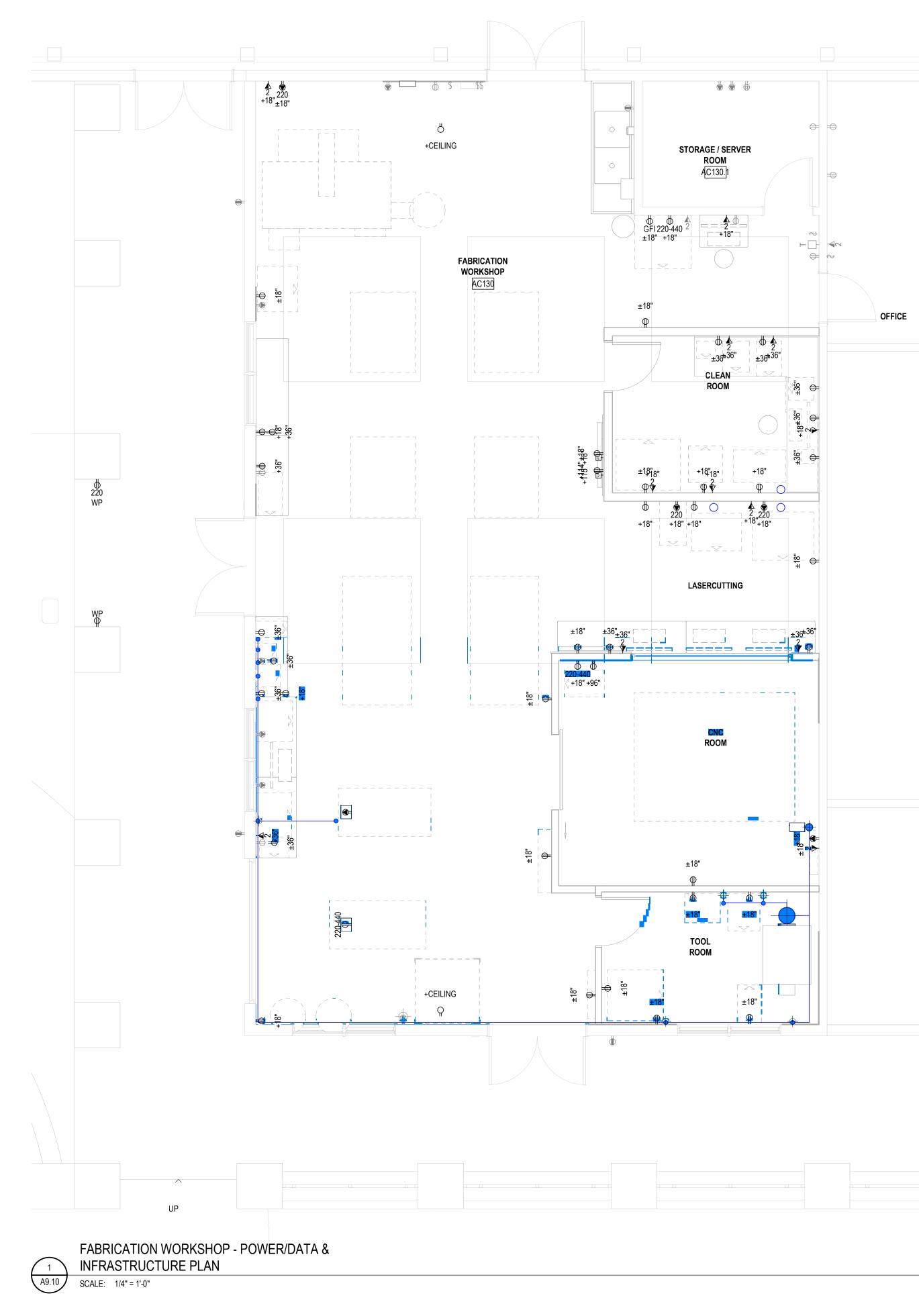
## EQUIPMENT PLAN

DRAWN: AD PLOT DATE: 3/2/2023 4:29:48 PM

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A9.00

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Keynote Text

Key Value

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITED APP: 01-120289 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: 6/12/2023

APPROVAL STAMP:



ISSUED FOR DSA SUBMITTAL V4 5.22.2023

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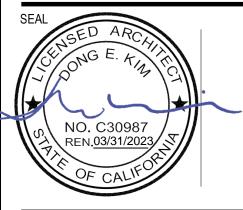
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ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607

Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

MECHANICAL ENGINEER H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 email:

ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:



PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

#### POWER/DATA & INFRASTRUCTURE PLAN

DRAWN: AD PLOT DATE: 3/2/2023 4:29:50 PM

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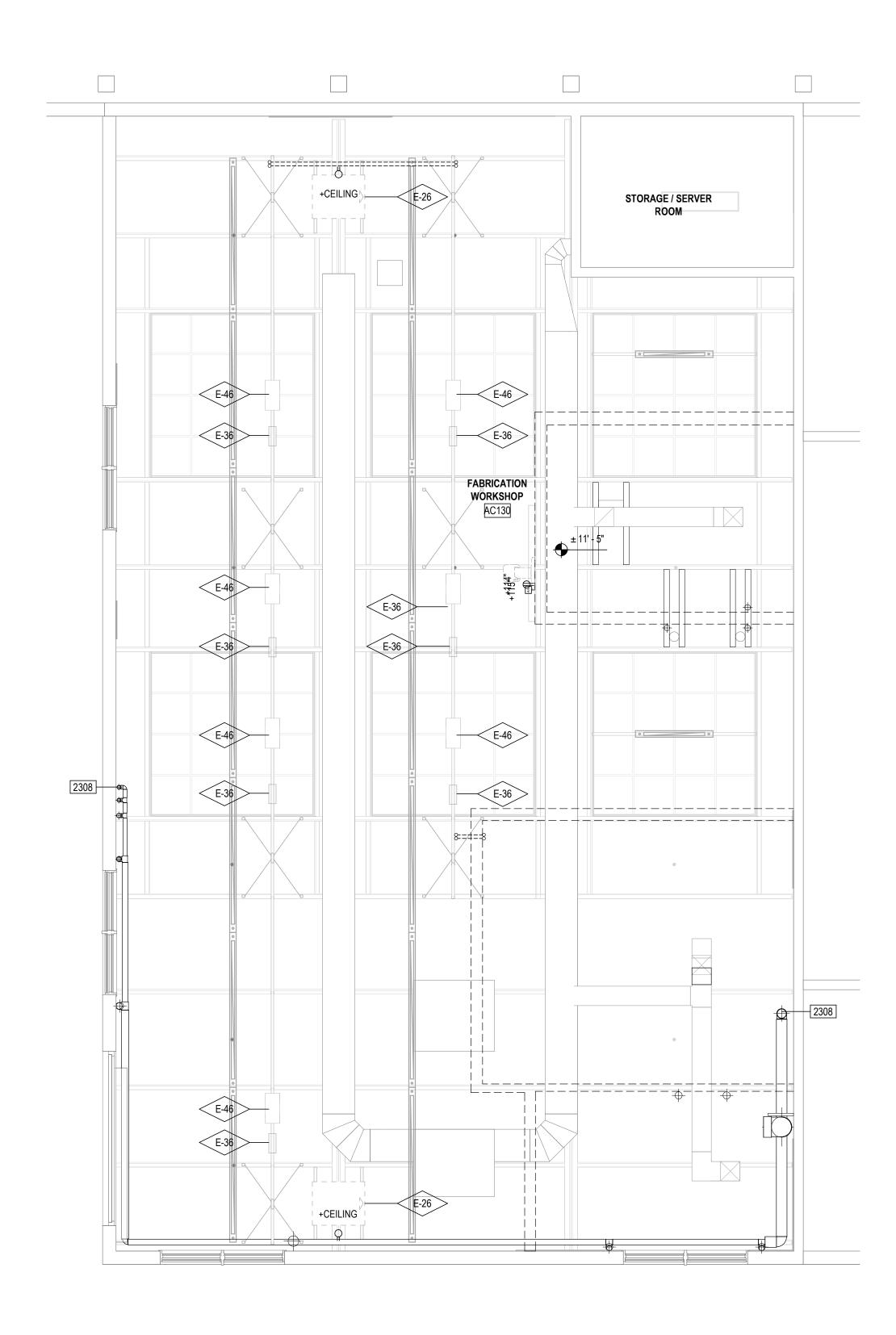
#### CA100024 - 2005082

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**GENERAL NOTES** 

LEGEND

- (N) POWER RECEPTACLES  $\bigcirc$
- (N) SPECIAL POWER RECEPTACLES
- (N) DATA RECEPTACLES
- (N) DUCTS TO DUST COLLECTOR, S.M.D.  $\bigcirc$
- (N) DUCTS TO EXTERIOR VENTILATION, S.M.D.







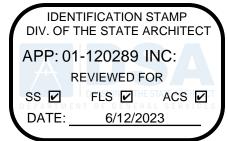
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(N) DUST COLLECTOR DUCT DROP, S.M.D. REFER TO 4/M0.02

Key Value

2308



APPROVAL STAMP:



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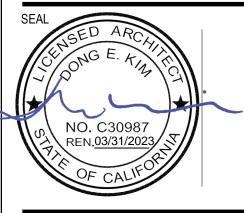
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PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

# POWER/PLAN RCP

DRAWN: Author PLOT DATE: 3/2/2023 4:29:53 PM

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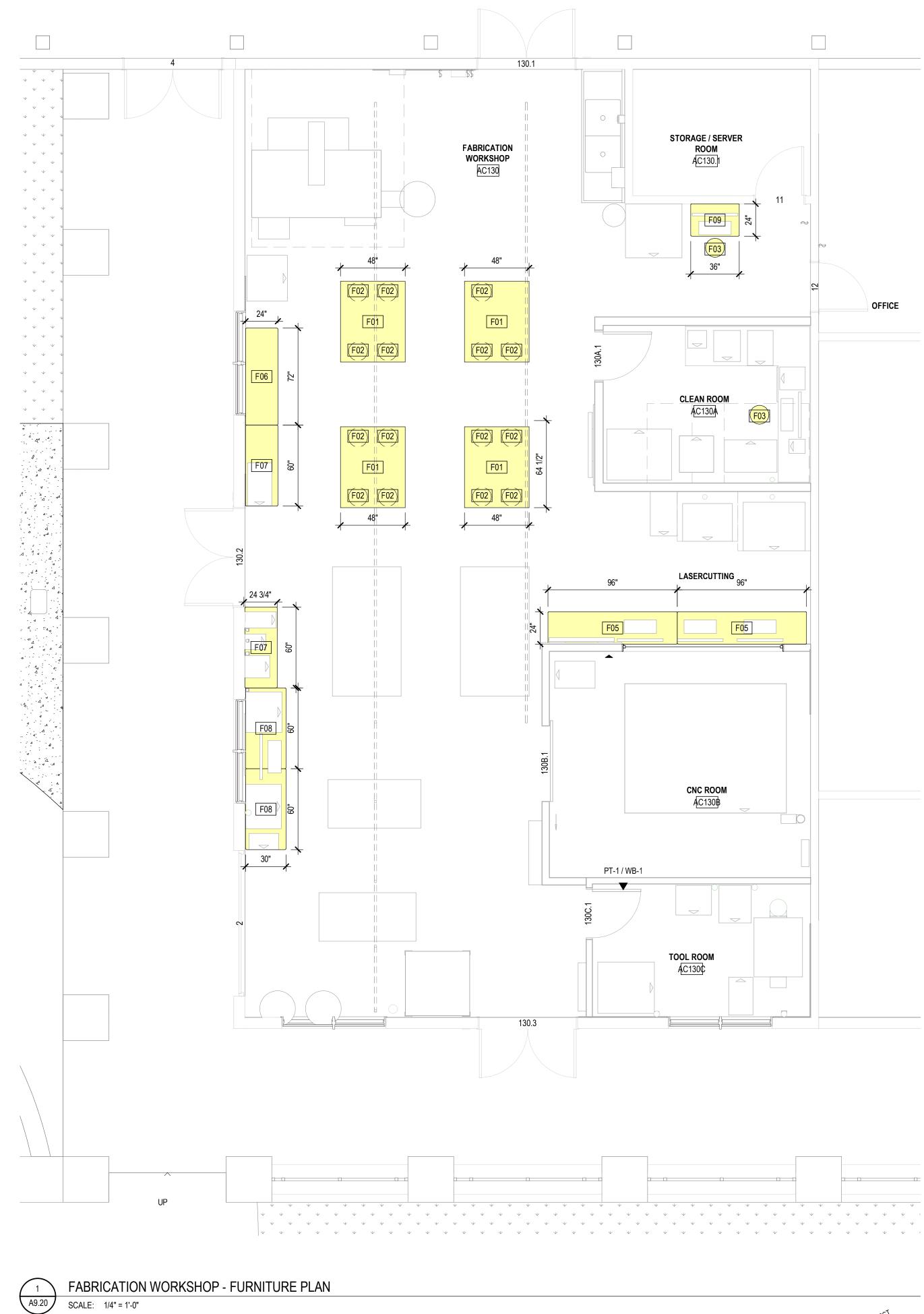
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**GENERAL NOTES** 

LEGEND

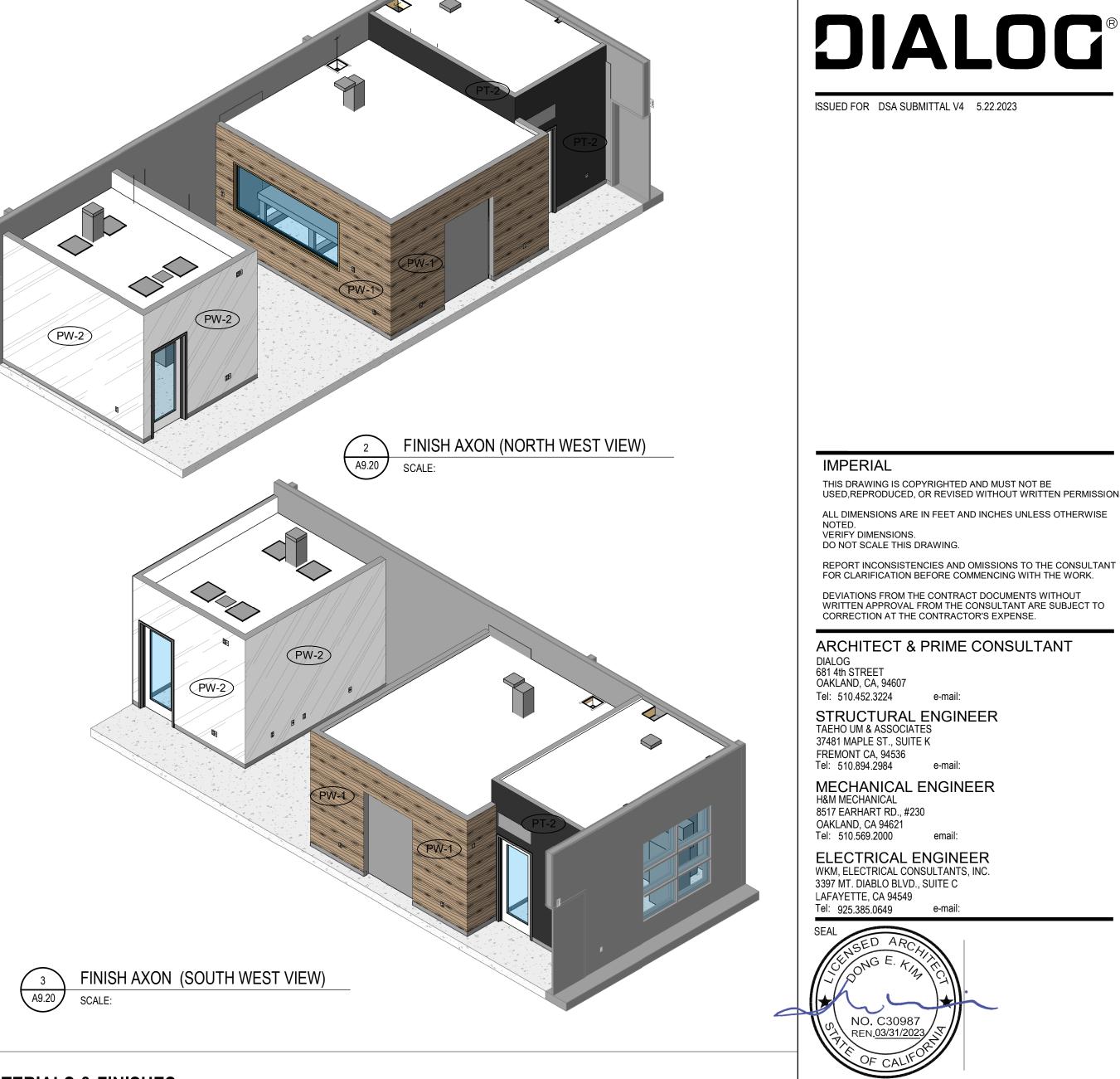
- $\oplus$  (N) POWER RECEPTACLES
- (N) DATA RECEPTACLES
- ⋈ (N) A/V RECEPTACLES



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



	FURNITURE SCHEDULE							
TAG	ITEM	MODEL	DIMENSION (WXL)	HT	MOUNTING	COUNT		Comments
F01	(E) TABLE	(E) TABLE	(E)	(E)	CASTERS	4	0.F.O.I.	
F02	(E) STOOL	(E) STOOL	(E)	(E)	FLOOR	15	0.F.O.I.	
F03	STOOL	INDUSTRIAL SEATING	15.5" DIA.	17"-22"	CASTERS	2	0.F.O.I.	
F05	TABLE, 24"X96"	BENCHPRO KENNEDY SERIES	24X96	30"	CASTERS	2		
F06	TABLE, 24"X72"	BENCHPRO KENNEDY SERIES	24X72	30"	CASTERS	1		
F07	TABLE, 24"X60"	BENCHPRO KENNEDY SERIES	24X60	30"	CASTERS	2		
F08	TABLE, 30"X60"	BENCHPRO KENNEDY SERIES	30X60	30"	CASTERS	2		
F09	TABLE, 750x915	BENCHPRO KENNEDY SERIES	24X48	30"	CASTERS	1		





#### **MATERIALS & FINISHES**



## PW-1

DESCRIPTION: ABUSE RESISTANT GYP BOARD COLOR, FINISH & COATING: PM-2 WHITE, EGGSHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR



DESCRIPTION: ABUSE RESISTANT GYP BOARD COLOR, FINISH & COATING: PM-2 WHITE, EGGSHELL

PW-2

DESCRIPTION: WALL PANELING COLOR, FINISH & COATING: WHITE, MW1 BUTTJOINED PRODUCT INFO: CLARIDGE LCS PORCELAIN MARKER WALL REMARKS: INTERIOR

PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR

	TIFICATION STAMP THE STATE ARCHITECT
A R	-120289 INC: EVIEWED FOR FLS I ACS I
DATE:	6/12/2023

APPROVAL STAMP:

DESCRIPTION: PLYWOOD WALL PANELING

COLOR, FINISH & COATING: TO COMPLY W/ CBC 803.1 PRODUCT INFO: BY G.C. REMARKS: INTERIOR

**FLOORING** 

4 .44 4  $\overline{F1}$ 

DESCRIPTION: (E) SEALED CONCRETE FLOOR COLOR, FINISH & COATING: -PRODUCT INFO: -REMARKS: INTERIOR

( B1 )

DESCRIPTION: RUBBER BASE COLOR, FINISH & COATING: 123 CHARCOAL, 4 NO TOE PRODUCT INFO: ROPPE 700 REMARKS: INTERIOR

<u>CEILING</u>

( C1 )

DESCRIPTION: ACOUSTICALLY ENHANCED GYP BOARD COLOR, FINISH & COATING: PM-2 WHITE, EGGSHELL PRODUCT INFO: BENJAMIN MOORE SCUFF-X REMARKS: INTERIOR

USED, REPRODUCED, OR REVISED WITHOUT WRITTEN PERMISSION. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE

REPORT INCONSISTENCIES AND OMISSIONS TO THE CONSULTANT FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK.

PCCD LANEY COLLEGE FABRICATION WORKSHOP RELOCATION 900 FALLON STREET, OAKLAND, CA 94607

## FURNITURE PLAN & FINISH AXON

DRAWN: AD PLOT DATE: 3/2/2023 4:29:58 PM

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#### CA100024 - 2005082

#### STRUCTURAL NOTES

#### GENERAL NOTES

- 1. ALL WORK PERFORMED FOR THIS PROJECT SHALL CONFORM TO CURRENT CBC AND IBC AS ADOPTED BY DSA 2. CONTRACTOR SHALL, PRIOR TO BIDDING AND/OR STARTING
- CONSTRUCTION, COORDINATE ALL CONSTRUCTION DOCUMENTS TO THE LATEST REVISION, VERIFY ALL DIMENSIONS, CHECK FOR CONFLICTING REQUIREMENTS AND REPORT TO ENGINEER ANY DISCREPANCIES AND FIELD CONDITIONS WHICH DIFFER FROM THOSE INDICATED ON DRAWINGS.
- ARCHITECTURAL INFORMATION SHOWN ON STRUCTURAL DRAWINGS SUCH AS FLOOR, PLATE, CEILING, AND ROOF HEIGHTS AND /OR ELEVATIONS, HORIZONTAL PLAN DIMENSIONS, DOOR AND WINDOW LOCATIONS, STEPS AND STAIRWAYS ARE TO BE VERIFIED AGAINST ARCHITECTURAL DRAWINGS. REPORT ALL DISCREPANCIES TO THE ENGINEER. ARCHITECTURAL INFORMATION SHOWN ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY AND ARE NOT TO SUPERCEDE SAME INFORMATION ON ARCHITECTURAL PLANS.
- . STRUCTURAL DRAWINGS ARE INTENDED TO COVER STRUCTURAL FRAMING AND THE FOUNDATION ELEMENTS ONLY. NON-STRUCTURAL ELEMENTS, INCLUDING DECORATIVE ARCHITECTURAL ELEMENTS, STAIR FRAMING, GUARDRAILS, CONCRETE PADS, DRIVEWAYS, ETC. MAY NOT BE COVERED IN THE STRUCTURAL DRAWINGS. CONTRACTORS ARE ADVISED TO REVIEW ALL OTHER PLANS AND CONSTRUCTION DOCUMENTS FOR NON-STRUCTURAL ITEMS THAT MAY BE IMBEDDED IN. ATTACHED TO, OR OTHERWISE INTERFACING WITH THE STRUCTURAL ELEMENTS.
- . DRAWINGS ARE NOT TO BE SCALED. CONSULT THE ENGINEER FOR DIMENSIONS NOT SPECIFIED WHEN REQUIRED BY FIELD CONDITION.
- 6. TYPICAL AND SIMILAR DETAILS SHALL APPLY WHERE NO SPECIFIC DETAILS ARE GIVEN. MATERIAL NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THE STRUCTURAL NOTES CONTAINED IN THE DRAWINGS.
- . ENGINEER SHALL APPROVE ALL DRAWINGS AND SUBSEQUENT REVISIONS, IF ANY, PRIOR TO STARTING CONSTRUCTION. NO STRUCTURAL MEMBERS SHALL BE SUBSTITUTED, RELOCATED OR OMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER AND DSA
- 8. WHEN THE INSTALLATION OF MECHANICAL, PLUMBING ELECTRICAL, LANDSCAPING AND OTHER SIMILAR ELEMENTS REQUIRE CHANGE OR MODIFICATIONS, INCLUDING BORING, NOTCHING, OR CUTTING MADE TO THE STRUCTURAL ELEMENTS, CONTRACTOR SHALL SUBMIT SUCH CHANGES OR MODIFICATIONS TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. PRIOR APPROVAL FROM DSA ALSO REQUIRED
- 9. UNLESS SPECIFIED IN THE STRUCTURAL FRAMING PLANS, MECHANICAL AND PLUMBING EQUIPMENT TO BE PLACED OVER OR SUSPENDED OFF THE STRUCTURE MEMBERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR APPROVAL FROM DSA ALSO REQUIRED. 10. CONTRACTOR AND THE SUB CONTRACTORS ARE
- RESPONSIBLE FOR THE ORDER AND MEANS OF CONSTRUCTION AND ALL TEMPORARY SHORING, BRACING, AND ERECTION DURING CONSTRUCTION.

#### CONCRETE:

- 1. ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS UNLESS OTHERWISE
- 2. UNLESS NOTED OTHERWISE, REINFORCING STEEL SHALL BE DEFORMED BARS OF BILLET OR AXLE STEEL PER ASTM A615. USE GRADE 60 FOR #3 AND SMALLER REINFORCING AND GRADE 60 #4 AND LARGER.
- . USE ASTM A706 FOR REINFORCING THAT IS TO BE WELDED. REINFORCING DOWELS AND OTHER EMBEDDED ELEMENTS SHALL BE IN PLACE BEFORE POURING CONCRETE.
- REINFORCEMENT SHALL BE CLEAN AND FREE OF OIL AND OTHER FOREIGN MATERIAL . CLEARANCE SHALL BE PROVIDED AS LISTED BELOW.
- CAST AGAINST EARTH - EXPOSED TO EARTH OR WEATHER BUT CAST AGAINST FORM - SLABS AND WALLS WHERE CONCRETE
- 6. EMBEDMENT INTO CONCRETE SHALL BE 7" MIN. AT MAX. 4'-0" OC. FOR 2-POUR SLAB-ON-GRADE FOUNDATIONS, THE MINIMUM EMBEDMENT SHALL BE 7" INTO THE FIRST POUR. A. TWO BOLTS MINIMUM EACH PIECE OF MUDSILL.
- B. 6" MINIMUM BUT NO MORE THAN 12" FROM EACH CUT END OF THE SILL PLATE.
- 7. WEDGE ANCHORS SHALL BE INSTALLED MINIMUM 7 DAYS AFTER THE CONCRETE IS POURED. 8. HOLDOWN LOCATIONS SHALL NOT BE SCALED OFF OF
- FOUNDATION PLANS. THEY SHALL BE LOCATED BY CLOSE EVALUATION OF ARCHITECTURAL FLOOR PLANS, SHEAR-WALL PLANS AND THE FRAMING PLANS.
- 9. FOR HOLDOWN INSTALLATION, CONTRACTOR SHALL REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR EMBEDMENT, COVERAGE AND OTHER REQUIREMENTS.

#### HARDWARE

- ALL FRAMING ANCHORS. STRAPS. HANGERS. POST CAPS. COLUMN BASES, HOLDOWNS, HINGE CONNECTORS, ANGLES AND CLIPS SHALL BE MANUFACTURED BY "SIMPSON" OR EQUAL. NAILING SCHEDULE SHALL BE IN ACCORDANCE WITH PRODUCTREQUIREMENTS FOR MAXIMUM TABULATED LOADS. UNLESS NOTED OTHERWISE, COMMON NAIL SHALL BE USED PER PRODUCT MANUAL.
- 2. UNLESS NOTED OTHERWISE, ALL FLUSH MOUNTED SINGLE FLOOR JOISTS SHALL HAVE APPROPRIATELY SIZED "U" OR "LUS" HANGERS AND ALL FLUSH MOUNTED SINGLE ROOF RAFTERS SHALL HAVE "LUS" OR "LSU" HANGERS.
- 3. UNLESS OTHERWISE NOTED, ALL FLUSH MOUNTED SAWN LUMBER BEAMS OR MULTIPLE JOISTS SHALL HAVE "HUS" HANGERS WHERE FLUSH MOUNTED.
- 4. ALL STRAPS INDICATED ON DRAWINGS SHALL BE FASTENED WITH NAILS WHERE BOLTS AND NAILS ARE OPTIONAL. BOLTS ARE REQUIRED ONLY WHEN SPECIFIED. ALL STRAPS SHALL BE PLACED OVER THE PLYWOOD SHEATHING.
- 5. 16d AND 10d FASTENERS ARE COMMON NAILS AND SHALL BE USED THROUGHOUT THIS PROJECT EXCEPT ALL TOE NAILING SHALL BE 8d NAILS. 10d COMMON NAILS MAY BE REPLACED WITH 16d SINKERS. BOX NAILS SHALL NOT BE USED UNLESS NOTED OTHERWISE.
- 6. ALL NAILS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED NAILS. GALVANIZED NAILS SPECIFIED IN SHEAR-WALL SCHEDULE SHALL BE HOT DIPPED, NOT ELECTROPLATED GALVANIZED.
- . FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT WOOD SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL, SILICON BRONZE OR COPPER.

- B. THE DIAMETER OF BORED HOLES, INCLUDING MACHINE BOLTS, ANCHOR BOLTS, HOLDOWN BOLTS, SHALL NOT BE LARGER THAN THE SPECIFIED BOLT SIZE PLUS 1/16TH OF AN INCH. FOR ALL BOLTS THROUGH WOOD MEMBERS, USE STANDARD CUR WASHERS UNLESS NOTED OTHERWISE ON THE PLANS.
- 9. NAILING SHALL CONFORM TO CBC TABLE 2304.9.1 NAILING SCHEDULE, UNLESS OTHERWISE NOTED. 10. UNLESS NOTED OTHERWISE, ALL BOLT AND THREADED
- ROD SHALL BE USED STANDARD NUT AND WASHER. 11. LAG SCREWS SHALL BE TURNED, NOT DRIVEN, INTO PRE
- DRILLED HOLES OF 2/3 THE SHANK DIAMETER.

#### LUMBER

- 1. THE STANDARDS OF QUALITY OF ALL WOODEN MATERIAL SHALL COMPLY WITH CBC 2019 SECTION 2303. AND WITH A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION.
- 2. UNLESS NOTED OTHERWISE ON THE DRAWINGS, LUMBER GRADES SHALL BE AS FOLLOWS: - 2X JOISTS AND 4X BEAMS
- DOUGLAS FIR LARCH #1 OR BETTER.
- 6X AND 8X FRAMING MEMBER DOUGLASS FIR LARCH #1 OR BETTER. - TOP PLATES, SILL PLATES, STUDS DOUGLAS FIR LARCH #2 OR BETTER.
- POST
- DOUGLAS FIR LARCH #1 OR BETTER. - MUD SILL, WOOD IN DIRECT CONTACT WITH CONCRETE AND OTHER MEMBERS LOCATED WITHIN 8" OF FINISH GRADE SHALL BE PRESSURE TREATED DOUGLAS FIR #2 OR FOUNDATION GRADE CALIFORNIA REDWOOD.
- 3. PLYWOOD SHEATHING SHALL BE DOUGLAS FIR AND SHALL COMPLY WITH THE LATEST EDITION OF U.S. PRODUCT STANDARD PS 1. GRADES SHALL BE MARKED STRUCTURAL BY APA AND BONDED WITH EXTERIOR GLUE UNLESS NOTED OTHERWISE. REFER TO PLANS AND DETAILS FOR THICKNESS. ALL PLYWOOD SHEATHING SHALL BE BLOCKED AT UNSUPPORTED EDGES.
- 4. NAILS SHALL BE COMMON WIRE NAILS AND SHALL CONFORM TO ASTM F1667. UNLESS NOTED OTHERWISE ON THE PLANS, NAILING SHALL COMPLY AS A MINIMUM WITH NAILING AND FASTENING SCHEDULES PRESCRIBED BY THE
- GOVERNING BUILDING CODE. 5. FOR PRESSURE TREATED LUMBER, NAILS SHALL CONFORM TO 2019 CBC 2303.1.9

#### MECHANICAL EXPANSION ANCHOR

- 1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ2 (ICC ESR-4266) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S **RECOMMENDATIONS.**
- 2. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
- 3. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
- 4. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
- 5. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY. 6. TEST ANCHORS NO SOONER THAN 24 HOURS AIFTER
- INSTALLATION. 7. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION ON THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR
- CALIBRATED SPRING-LOADING DEVICES, ETC. 8. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED
- CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND. LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING
- 9. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW. 10. TEST 50% OF ANCHORS PER THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SHOWN IN THE TABLE BELOW:
- A. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE BELOW WITHIN ONE-HALF TURN OF THE NUT.DOCUMENTS.

HILTI KB TZ DIAMETER	DRILL BIT DIA.	HOLE DEPTH	NOMINAL EMBED MENT	MIN. CONC THICKNESS	TORQUE TEST [STAINLESS STEEL] (LB-FT)
3"ø	3"ø	2 <mark>3</mark> "	2 <mark>1</mark> "	4"	30
8 9	8 9	3 <del>1</del> "	3"	5"	[30]
<u>1</u> "ø	<u>1</u> "ø	2 <mark>3</mark> "	2 <mark>1</mark> "	4"	50
2 4	2 4	3‡"	3 <b>"</b>	5"	[40]
		4"	3 <mark>3</mark> "	5 <u>1</u> "	
5	5".	4 <mark>1</mark> "	3 <mark>3</mark> "	5 <u>1</u> "	40
5 <b>3</b> ӯ	5 <b>8</b> "ø	4 <mark>3</mark> "	4 <mark>1</mark> "	6"	[60]
7.0	7	4 <mark>3</mark> "	4 <u>1</u> "	6"	110
<del>3</del> 70 37	3 <b>3</b> "ø	5 <mark>3</mark> "	5 <mark>1</mark> "	5 <mark>1</mark> "	[125]

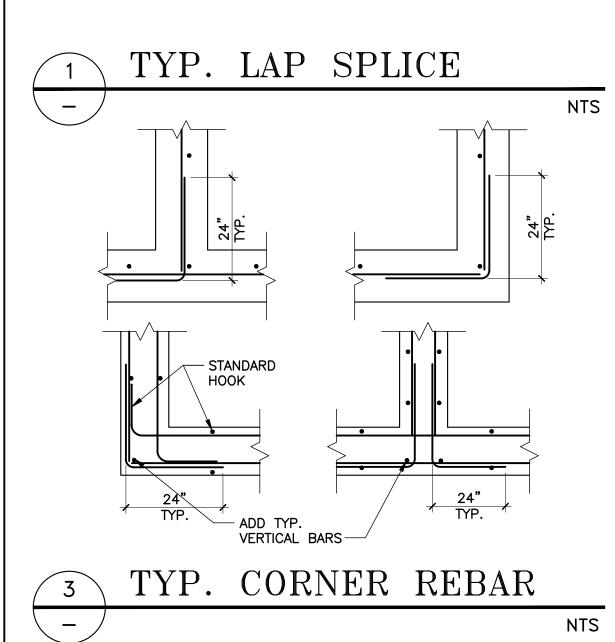
- STEEL
- 1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATION.
- 2. STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION AS INDICATED BELOW UNLESS NOTED OTHERWISE: -ALL WIDE FLANGE AND WT SHAPES A992, GRADE 50 -BEAM SHEAR PLATES, STIFFENER PLATES, ALL OTHER HSS, PLATES A1085, GRADE 50 U.N.O -FRICTION BOLTS A325N
- -MACHINE BOLTS A307 (U.O.N.) -ANCHOR BOLTS, THREADED AND HANGER ROD F1554,
- GRADE 55 S1. HEADED -NUTS FOR BOLTS AND MACHINE BOLTS A572, GR50 -HARDENED WASHERS F436 FOR A325N BOLTS
- -UNHARDENED WASHERS F844 (U.O.N.) (STANDARD WASHERS SIZES PER ASME B18.22.1) 3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN
- ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325. 4. HEADED ANCHOR STUDS AND THREADED STUDS SHALL BE
- NELSON (ESR-2856) GRANULAR FLUX-FILLED, AND SHALL BE MADE FROM COLD FINISHED LOW CARBON STEEL, CONFORMING TO ASTM A-108, GRADES 1010 THROUGH 1020 WITH A MINIMUM TENSILE STRENGTH OF 60.000 PSI. STUD WELDING INSPECTION AND TESTING SHALL CONFORM TO AWS D 1. 1
- 5. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL, MISCELLANEOUS METAL AND FASTENERS THAT ARE EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.
- 6. WHEN FABRICATING BEAMS. PLACE NATURAL CAMBER UP. PROVIDE UPWARD CAMBER TO ALL MEMBERS SHOWN TO HAVE CAMBER. AMOUNT MEASURED IN THE FIELD PRIOR TO ERECTION SHALL NOT DEVIATE BY MORE THAN ALLOWED BY THE AISC SPECIFICATIONS. DO NOT CAMBER MEMBERS OCCURRING BELOW ELEVATOR ENTRANCE DOORS.
- 7. SPLICE MEMBERS ONLY WHERE INDICATED. 8. AFTER FABRICATION, ALL STEEL SHALL BE CLEANED FREE OF RUST, LOOSE MILL SCALE AND OIL.
- 9. BOLT HOLES IN STEEL SHALL HAVE STANDARD HOLES, 1 /16 INCH LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE.
- 10. ALL STRUCTURAL STEEL SURFACES TO BE WELDED OR HIGH-STRENGTH BOLTED, TO BE ENCASED IN CONCRETE OR TO RECEIVE SPRAY-APPLIED FIREPROOFING SHALL BE LEFT UNPAINTED.
- 11. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FIREPROOFING. 12. ALL STRUCTURAL STEEL BELOW GRADE MUST BE
- ENCASED IN CONCRETE WITH A MINIMUM THICKNESS OF 4 INCHES.
- 13. STRUCTURAL STEEL CONTRACTOR MUST HAVE AS A MINIMUM A BUILDING QMS AND A CSE CERTIFICATION BY AISC.

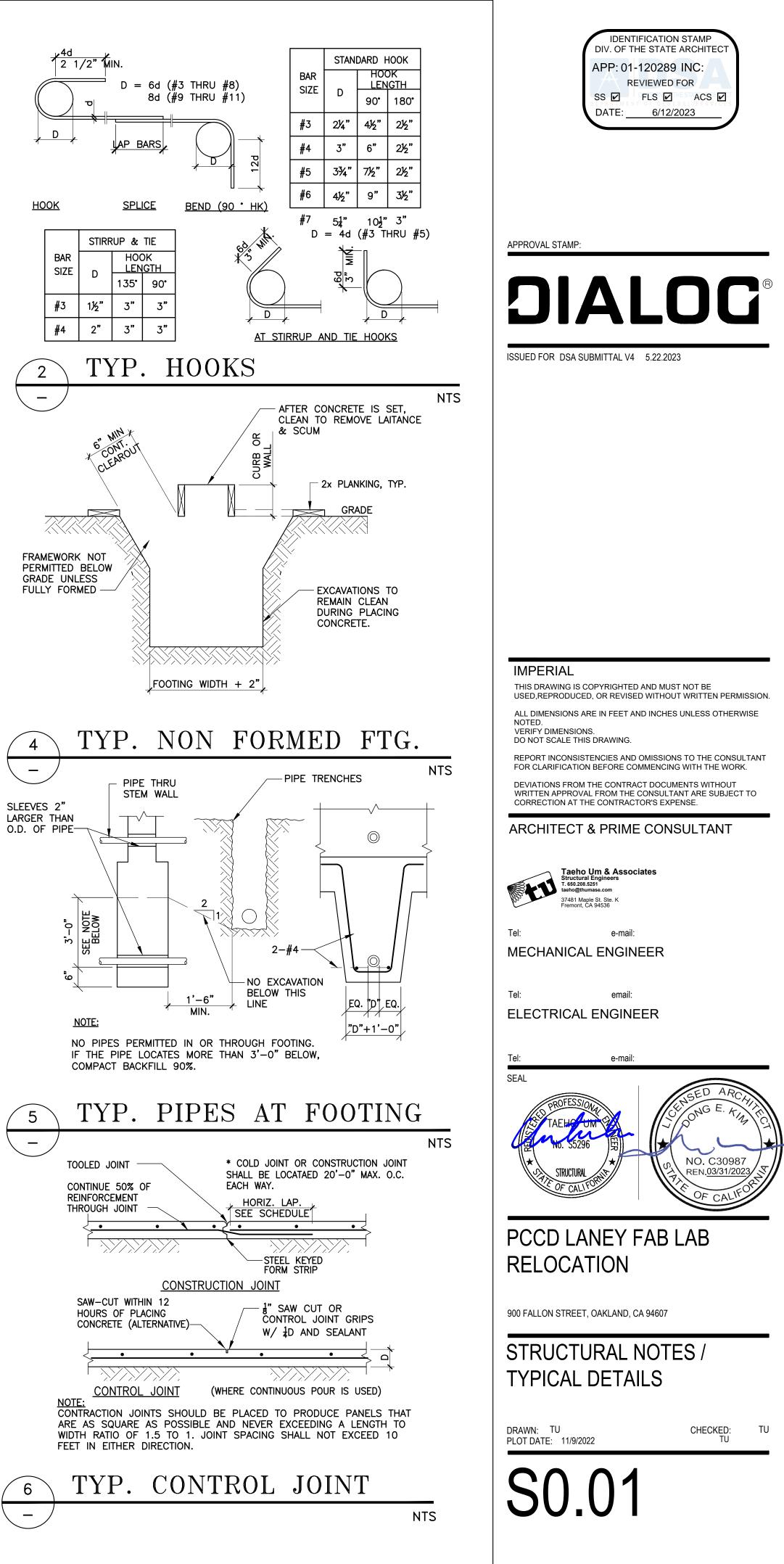
STRUCTURAL STEEL WELDING

- 1. ALL WELDING SHALL BE IN STRICT CONFORMANCE WITH THE LATEST EDITION OF AWS D1.1 AND THE CALIFORNIA BUILDING CODE WITH ALL APPLICABLE AMENDMENTS. ALL WELDED JOINTS SHALL BE PRE-QUALIFIED PER THE LATEST EDITION OF AWS D1.1. NON PRE- QUALIFIED WELDED JOINTS SHALL BE QUALIFIED BY TEST & PROCEDURE QUALIFICATION TEST RECORD INCLUDED PER THE LATEST EDITION OF AWS D1.1.
- 2. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WELD SIZE SHALL BE AISC MINIMUM UNLESS A LARGER SIZE IS NOTED. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE FULL LENGTH OF JOINT. ALL BUTT AND GROOVE WELDS SHALL BE FULL PENETRATION, UNLESS NOTED OTHERWISE.
- 3. ALL WELDING ELECTRODES AND ELECTRODE FLUX COMBINATIONS(FILLER METAL) SHALL BE E7XTX, E7XTXX OR E70XXX (MINIMUM 70 KSI), UNLESS NOTED OTHERWISE. AND SHALL MEET THE REQUIREMENTS FOR H16.
- 4. ALL WELDS SHALL HAVE A FILLER METAL WITH CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AVERAGE AT MINUS TWENTY DEGREES FAHRENHEIT AND 40FT-LBS AT SEVENTY DEGREES FAHRENHEIT. CERTIFY CONFORMANCE TO CHARPY V-NOTCH TOUGHNESS REQUIREMENTS WITH TESTS BY AN INDEPENDENT TESTING LABORATORY.
- 5. GMAW AND FCAW-G WELDING PROCESSES SHALL NOT BE PERMITED WHEN WINDS EXCEEDS 3 MPH. 6. WHERE FIELD WELDING IS NOTED. THE DESIGNATION IS
- GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR IDENTIFYING THE METHOD OF FABRICATION. 7. ALL SHOP WELDS SHALL BE PERFORMED BY A FABRICATOR
- LICENSED BY THE LOCAL JURISDICTION. 8. ALL WELDERS SHALL BE QUALIFIED FOR THE WORK THEY WILL BE PERFORMING AND SHALL HAVE CURRENT VALID
- CERTIFICATIONS ISSUED BY AWS AND THE GOVERNING JURISDICTION. 9. ALL PARTIAL AND FULL PENETRATION WELDS WHICH ARE EXPOSED TO VIEW SHALL BE GROUND SMOOTH AND FLUSH WITH FINISH SURFACE OF STEEL. HOLES SHALL BE FILLED WITH WELD METAL OR BODY SOLDER AND SMOOTHED BY
- GRINDING OR FILING. 10 G.C. TO CLEAN GROOVE PREPARATION THERMAL CUTS BY GRINDING.
- 10. WELDS SHALL BE TERMINATED AT THE END OF A JOINT IN A MANNER THAT WILL ENSURE SOUND WELDS. WHENEVER NECESSARY THIS SHALL BE DONE BY USE OF EXTENSION BARS AND RUN OFF TABS
- 11. A WRITTEN "WELDING PROCEDURE SPECIFICATION" (WPS) PER AWS D1.1, SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR, AND REVIEWED BY THE OWNER'S REPRESENTATIVE AND BUILDING DEPARTMENT. THE WPS SHALL CONTAIN ALL THE NECESSARY INFORMATION REQUIRED BY THE CODE. THE SPECIFICATIONS. AND ANY OTHER INFORMATION NECESSARY TO PRODUCE WELDS THAT ARE IN COMPLIANCE WITH THESE REQUIREMENTS. THE WPS SHALL INCLUDE THE WELDING PARAMETERS RECOMMENDED BY THE ELECTRODE MANUFACTURER. ALL WELDERS AND INSPECTORS SHALL ADHERE TO THE WPS AND SHALL RETAIN A COPY.

	SPLICE						
BAR SIZE	CONC. f'c	= 2500 PSI	CONC. f'c	= 3000 PSI			
JIZE	TOP BAR	OTHER	TOP BAR	OTHER			
<b>#</b> 3	31	24	28	22			
#4	41	32	38	29			
<b>#</b> 5	51	39	47	36			
<b>#</b> 6	61	47	56	43			

ALL SPLICE LENGTH IS CLASS B LAP SPLICE LENGTH.





CA100024 - 2005082

#### SPECIAL INSPECTION

1. TORQUE TEST FOR KB TZ2 [PERIODIC] 2. STEEL WELDING [PERIODIC]

#### **DESIGN DATA**

APPLICABLE CODE: CALIFORNIA CODE OF REGULATIONS, 2019 EDITION (CCR), TITLE 24, PART 2, ALSO REFERRED TO AS CALIFORNIA BUILDING CODE (CBC)

- B. SEISMIC LOADS:
- SITE PARAMETERS:
- Ss = 1.748; S1 = 0.664; Fa = 1.200;Sms = 2.098; Sds = 1.399

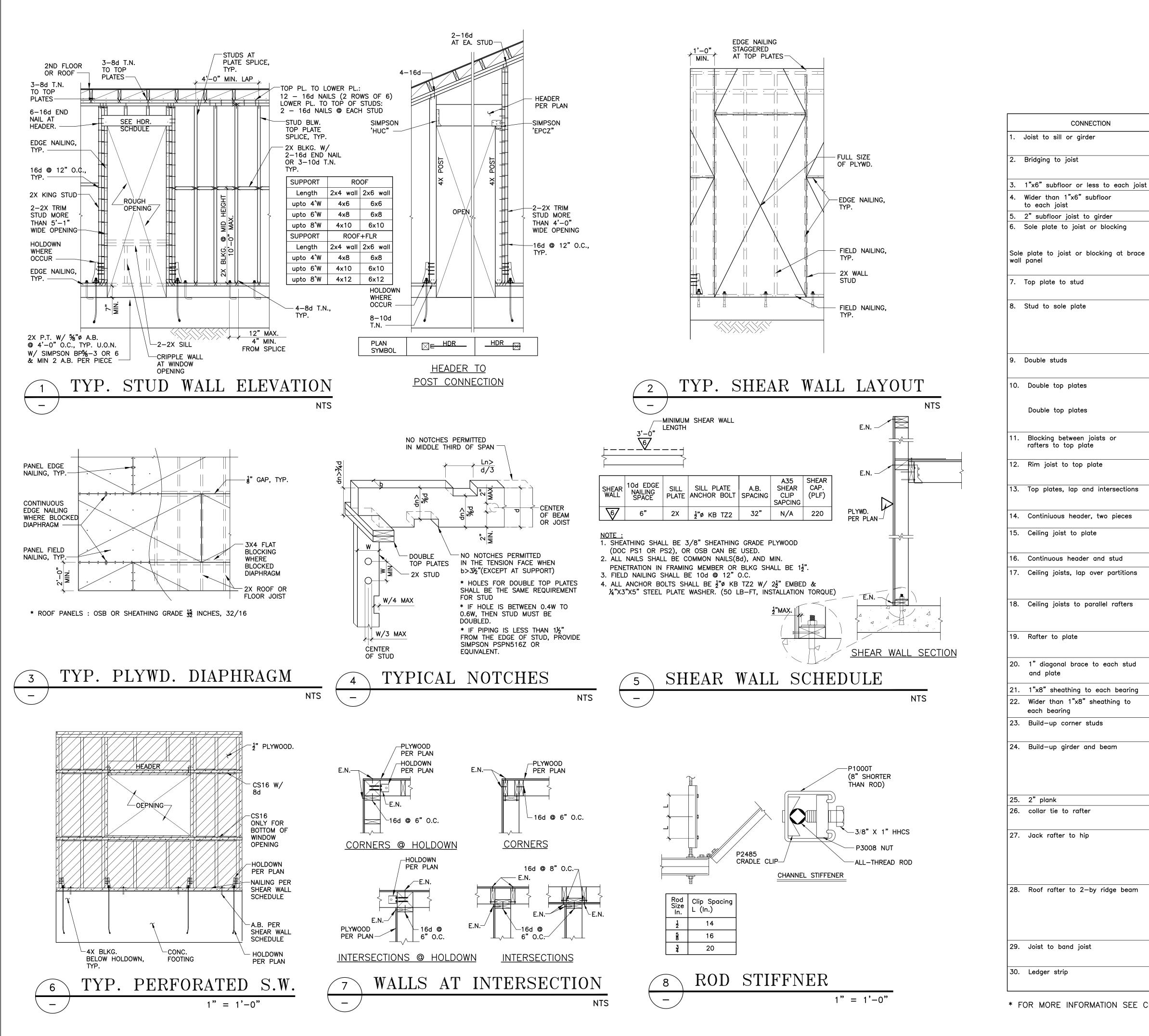
SEISMIC DESIGN FORCE:

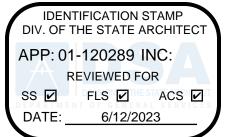
ASCE EQN 13.3-1

Fp = 0.4\*ap\*Sds\*Wp\*(1+2\*z/h)Rp/lp

ASCE EQN 13.3-1 0.3\*Sds\*lp\*Wp < Fp < 1.6\*Sds\*lp\*Wp

- ap = VARIES (PER ASCE TABLE 13.5-1 & 13.6-1)
- Rp = VARIES (PER ASCE TABLE 13.5-1 & 13.6-1)  $l_{D} = 1.0$ z = POINT OF ATTACHMENT OF COMPONENT, VARIES.
- h = AVG. ROOF HEIGHT OF STRCTURE
- $\Omega = 2.5$ , (FOR CONNECTION TO CONCRETE)  $W_p = WEIGHT OF COMPONENT$





CONNECTION FASTENING LOCATION 3-8d common (2.5x0.131") toenail 3-3"x0.131 nails 3-3"14 gage staples 2-8D COMMON (2.5X0.131") 2-3"x0.131 nails toenail each end 2-3"14 gage staples 1"x6" subfloor or less to each joist |2-8d common (2.5x0.131") face nail face nail 3-8d common (2.5x0.131") blind and face nail 2-16d common (2.5x0.162") 16d (3.5x0.135") at 16" o.c. typical face nail 3"x0.131" nails at 8" o.c. 3" 14 gage staples at 12" o.c. 3-16d (3.5x0.135") at 16" o.c. brace wall panels 4-3"x0.131" nails at 16" o.c. 4-3" 14 gage staples at 16" o.c. 2-16d common (2.5"x0.162") 3-3"x0.131" nails end nail 3-3" 14 gage staples 4-8d common (2.5"x0.131") 4-3"x0.131" nails toe nail 3-3" 14 gage staples 2-12d common (2.5"x0.162") 3-3"x0.131" nails end nail 3-3" 14 gage staples 16d (3.5"x0.135") at 24" o.c. 3"x0.131" nails at 8" o.c. face nail 3" 14 gage staples at 8" o.c. 16d (3.5"x0.135") at 16" o.c. 3"x0.131" nails at 12" o.c. typical face nail 3" 14 gage staples at 12" o.c. 8-16d common (3.5"x0.162") 12-3"x0.131" nails lap splice 12-3" 14 gage staples 3-8d common (2.5"x0.131") 3-3"x0.131" nails toe nail 3-3" 14 gage staples 8d (2.5"x0.131") at 6" o.c. 3"x0.131" nails at 6" o.c. toe nail 3" 14 gage staples at 6" o.c. 2-16d common (3.5"x0.162") 3-3"x0.131" nails face nail 3-3" 14 gage staples 16d common (3.5"x0.162") 16"o.c along edge 3-8d common (2.5"x0.131") toe nail 5-3"x0.131" nails 5-3" 14 gage staples 4-8d common (2.5"x0.131") toe nail 3-16d common (3.5"x0.162") min. Table 2308.10.4.1 face nail 4-3"x0.131" nails 4-3" 14 gage staples 3-16d common (3.5"x0.162") min. Table 2308.10.4.1 face nail 4-3"x0.131" nails 4-3" 14 gage staples 3-8d common (2.5"x0.131") 3-3"x0.131" nails toe nail 3-3" 14 gage staples 2-8d common (2.5"x0.131") face nail 2-3"x0.131" nails 3-3" 14 gage staples 3-8d common (2.5"x0.131") face nail face nail 3-8d common (2.5"x0.131") 24" o.c. 16d common (3.5"x0.162") 16"o.c. 3"x0.131" nails 3" 14 gage staples 12" o.c. 20d common (4"x0.192") 32" o.c. face nail at top 3"x0.131" nails at 24" o.c. and bottom staggered on 3" 14 gage staples at 24" o.c. opposite sides 2-20d common (4"x0.192") 3-3"x0.131" nails 3-3" 14 gage staples 16d common (3.5"x0.162") at each bearing 3-10d common (3"x0.148") face nail 4-3"x0.131" nails 4-3" 14 gage staples 3-10d common (3"x0.148") 4-3"x0.131" nails toe nail 4-3" 14 gage staples 2-16d common (3.5"x0.162") 3-3"x0.131" nails face nail 3-3" 14 gage staples 2-16d common (3.5"x0.162") toe nail 3-3"x0.131" nails 3-3" 14 gage staples face nail 2-16d common (3.5"x0.162") 3-3"x0.131" nails 3-3" 14 gage staples 3-16d common (3.5"x0.162") face nail 4-3"x0.131" nails 4-3" 14 gage staples 3-16d common (3.5"x0.162") 4-3"x0.131" nails face nail at each joist 4-3" 14 gage staples

\* FOR MORE INFORMATION SEE CBC 2019, TABLE 2304.10.1

APPROVAL STAMP:



ISSUED FOR DSA SUBMITTAL V4 5.22.2023

#### IMPERIAL

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REPORT INCONSISTENCIES AND OMISSIONS TO THE CONSULTANT FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK. DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE.

#### **ARCHITECT & PRIME CONSULTANT**

e-mail:

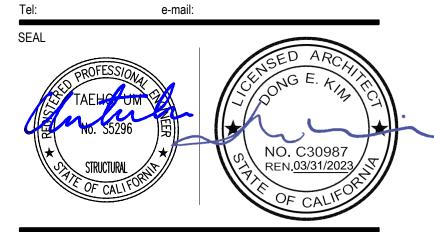


Tel:

MECHANICAL ENGINEER

Tel: email:

ELECTRICAL ENGINEER



#### PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

# **TYPICAL**

DETAILS

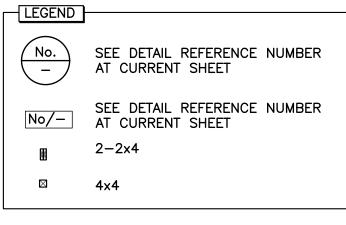
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PLOT DATE: 11/9/2022

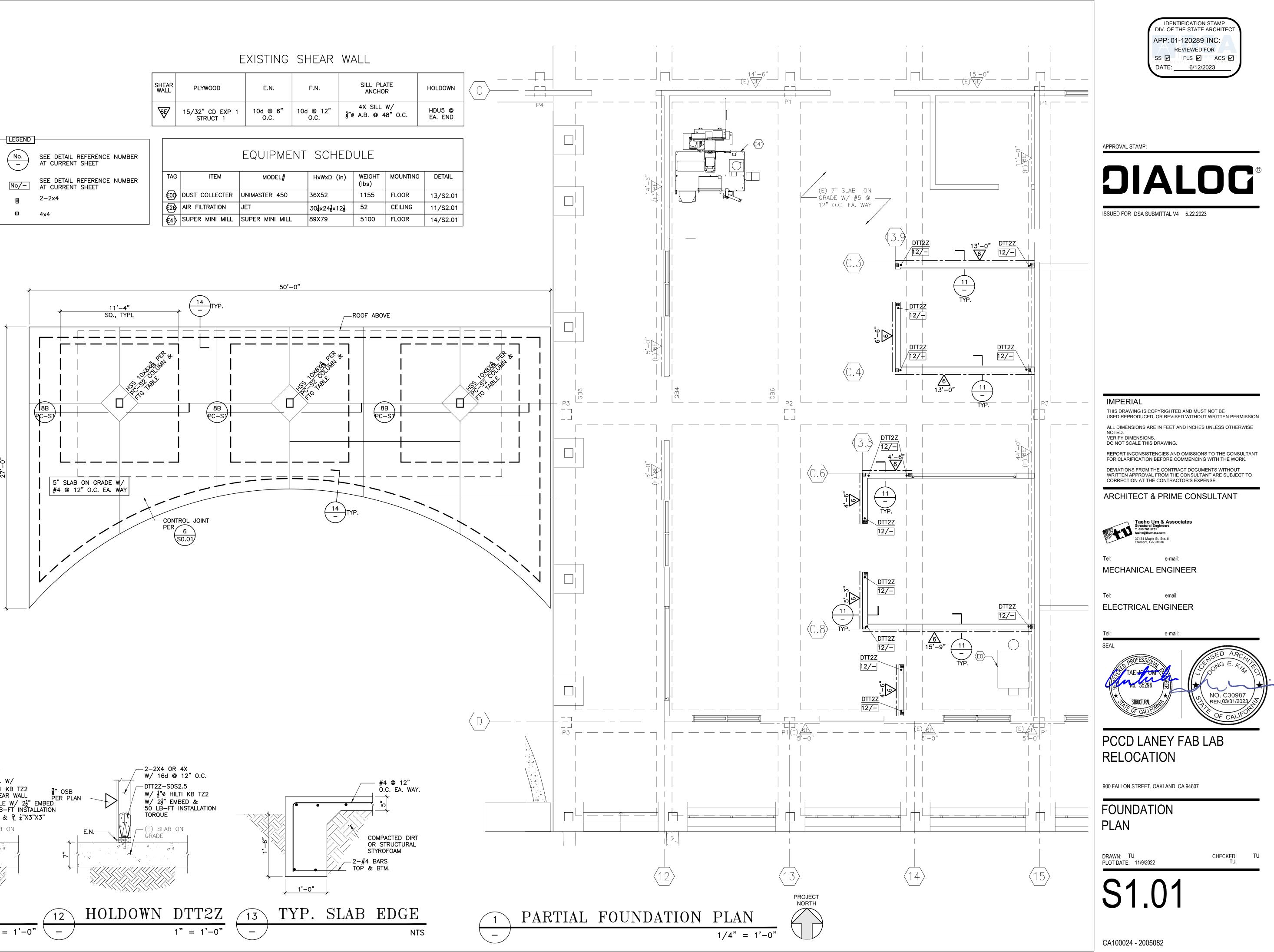
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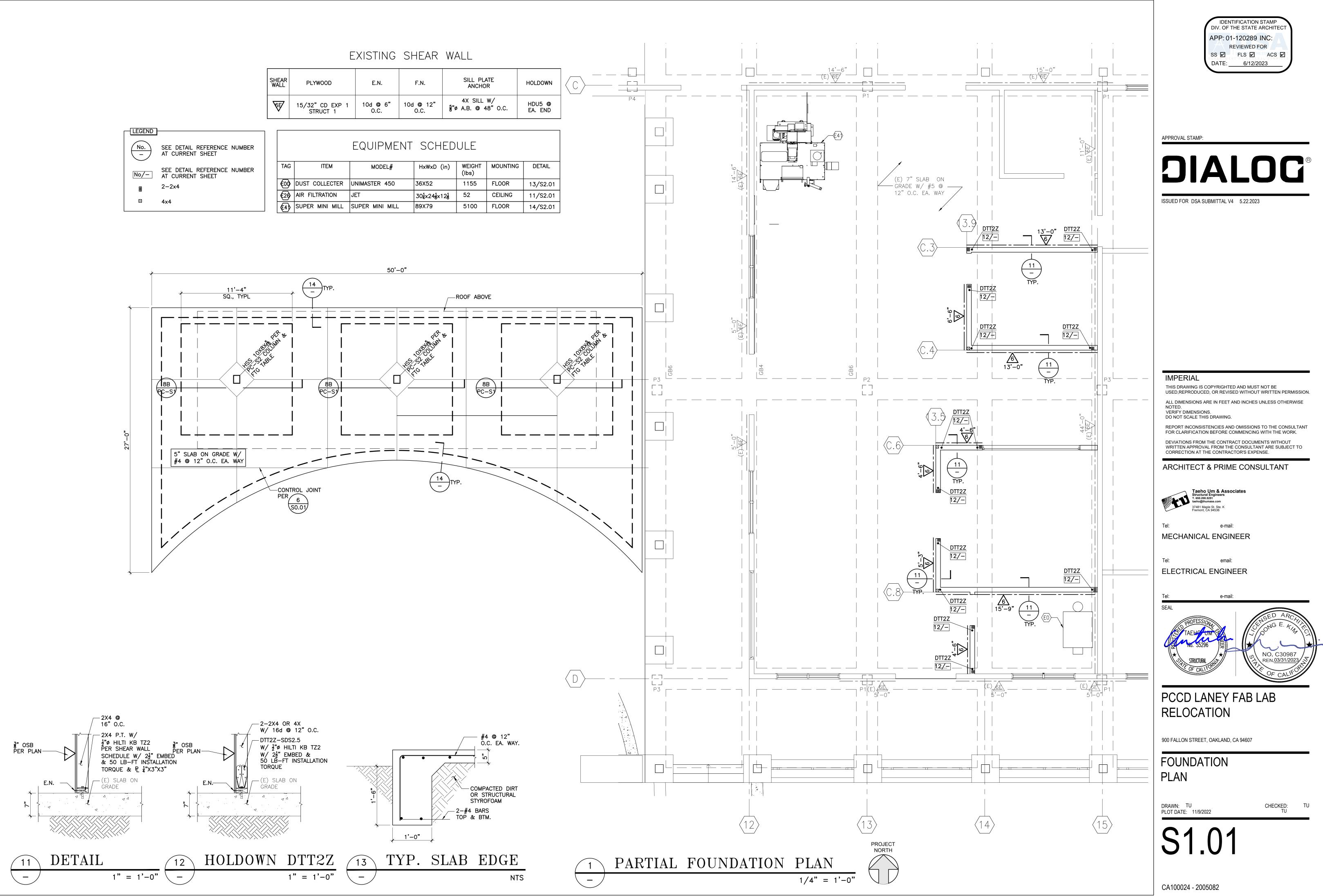
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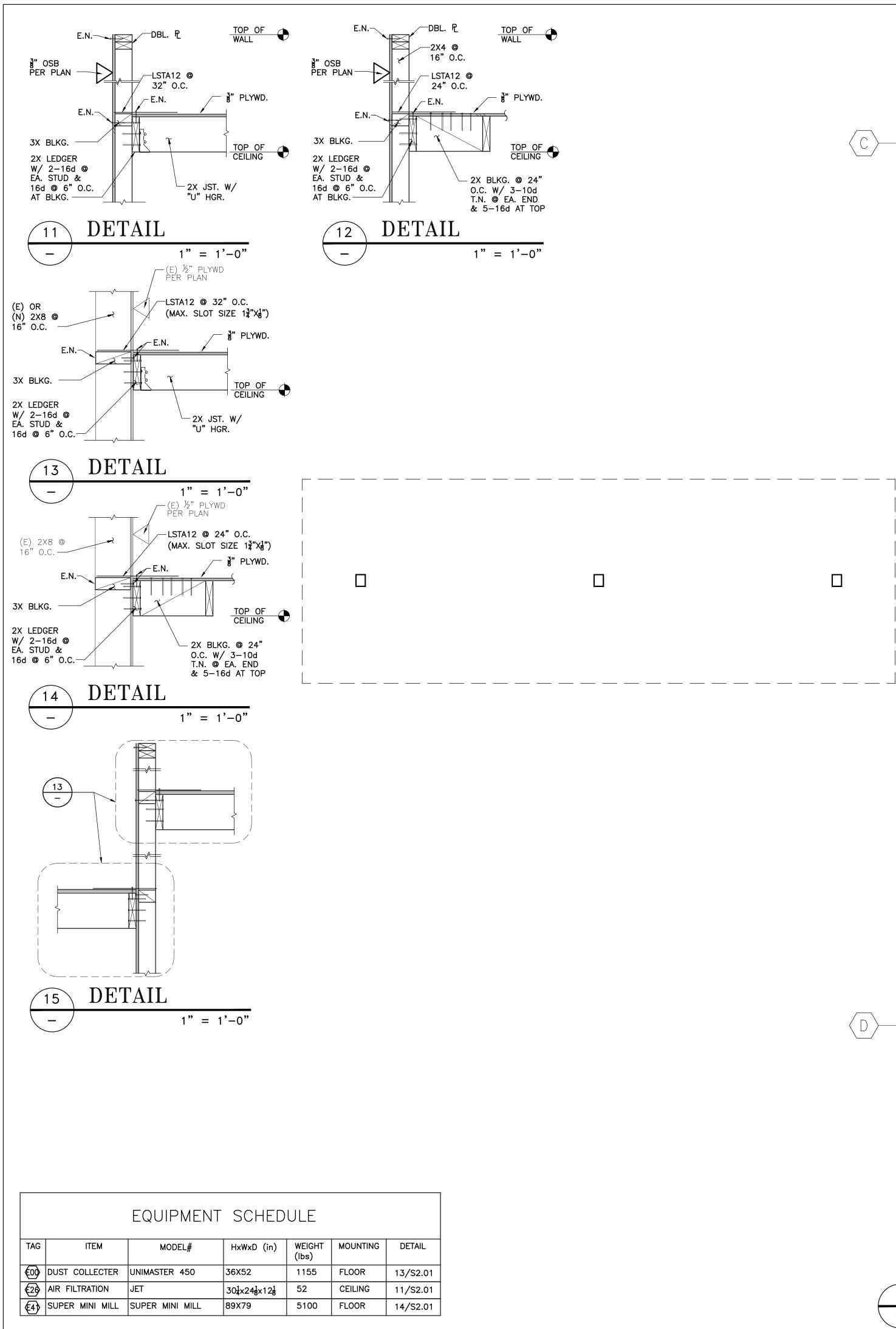
SHEAR WALL	PLYWOOD	E.N.	
<b>F</b> F	15/32" CD EXP 1 STRUCT 1	10d @ 6" O.C.	1(

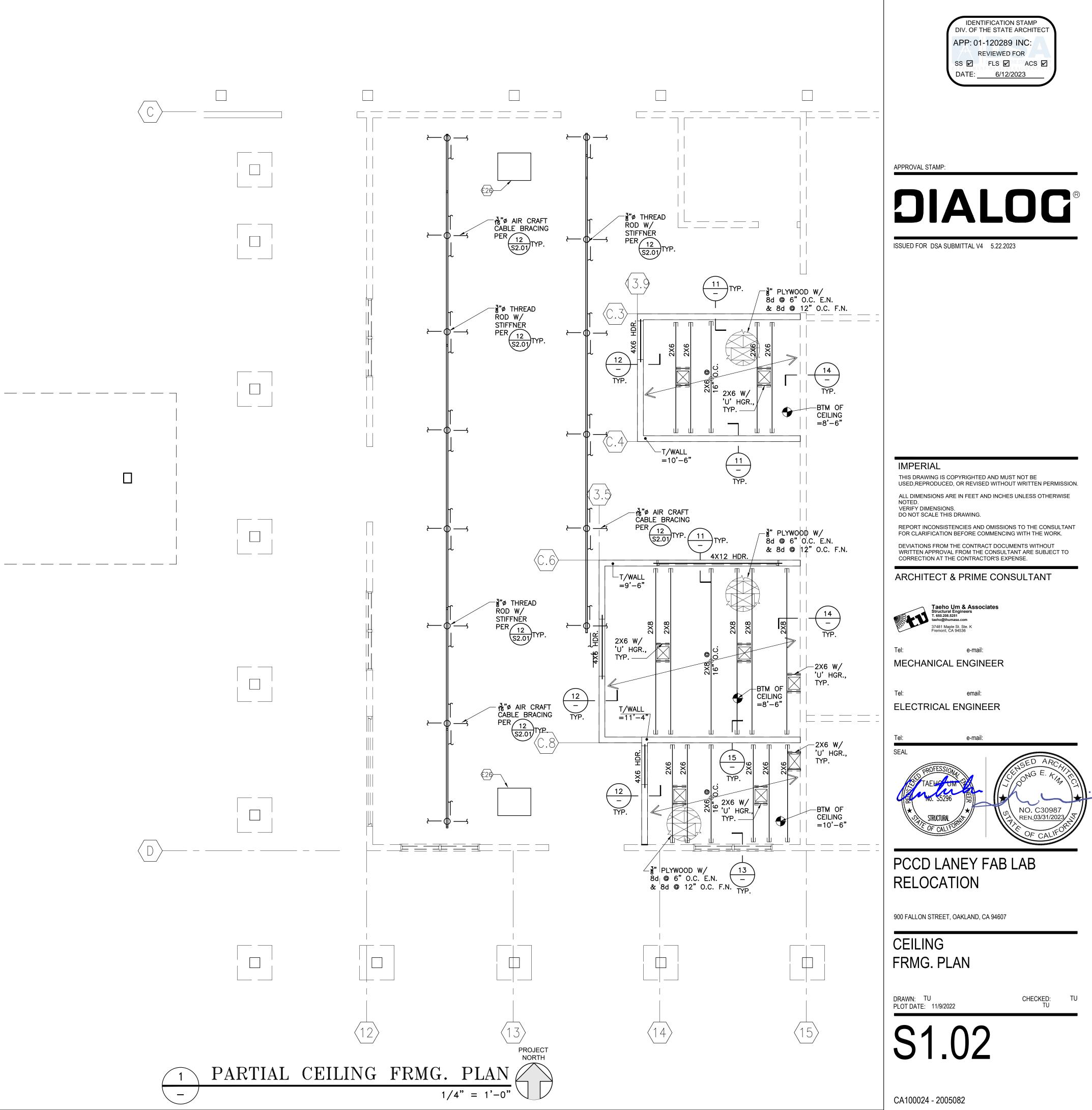


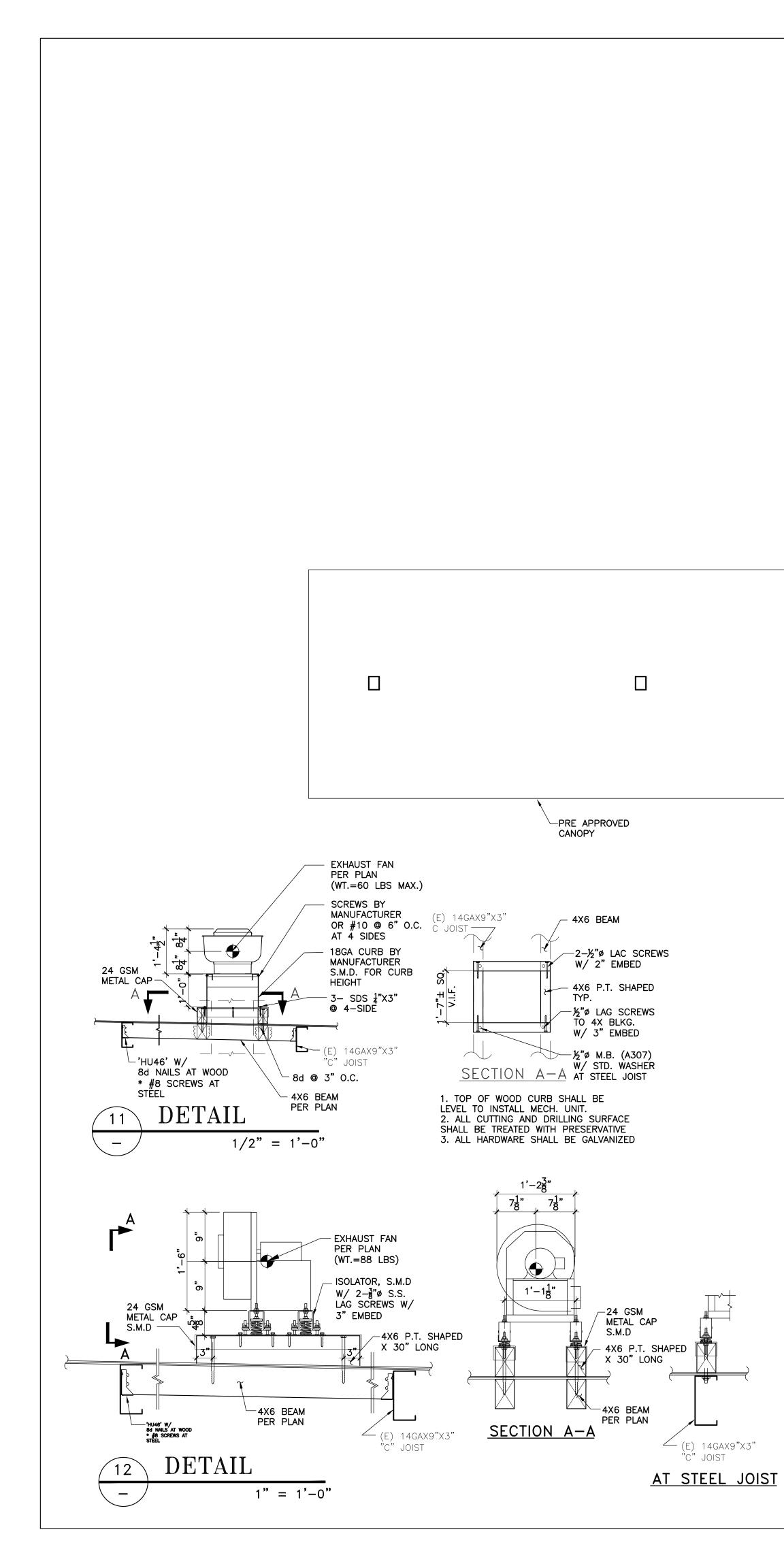
	TAG	ITEM	MODEL#
	€00	DUST COLLECTER	UNIMASTER 450
	€26	AIR FILTRATION	JET
	€4)	SUPER MINI MILL	SUPER MINI MILL

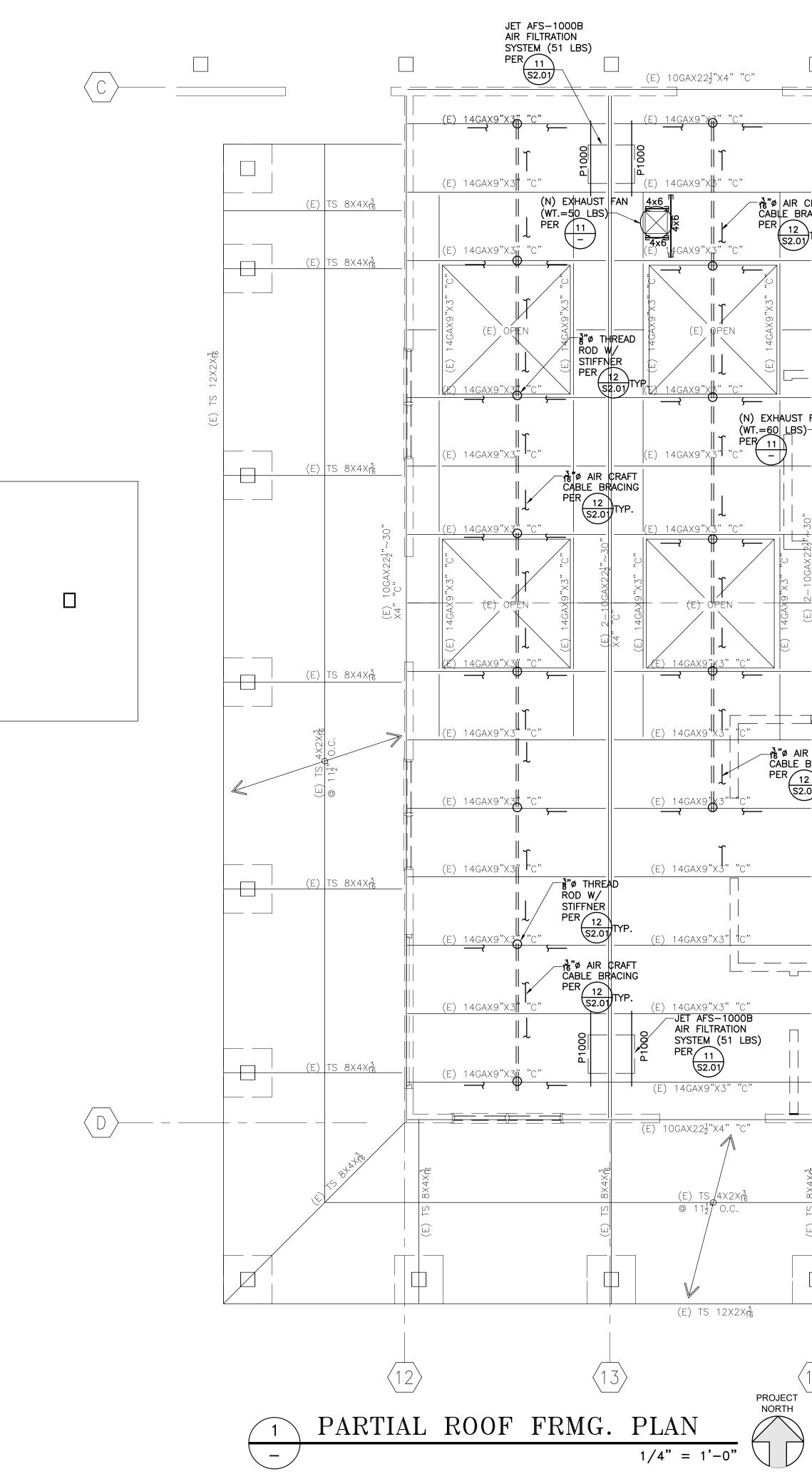








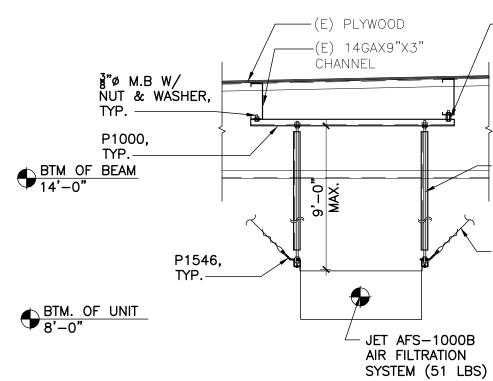


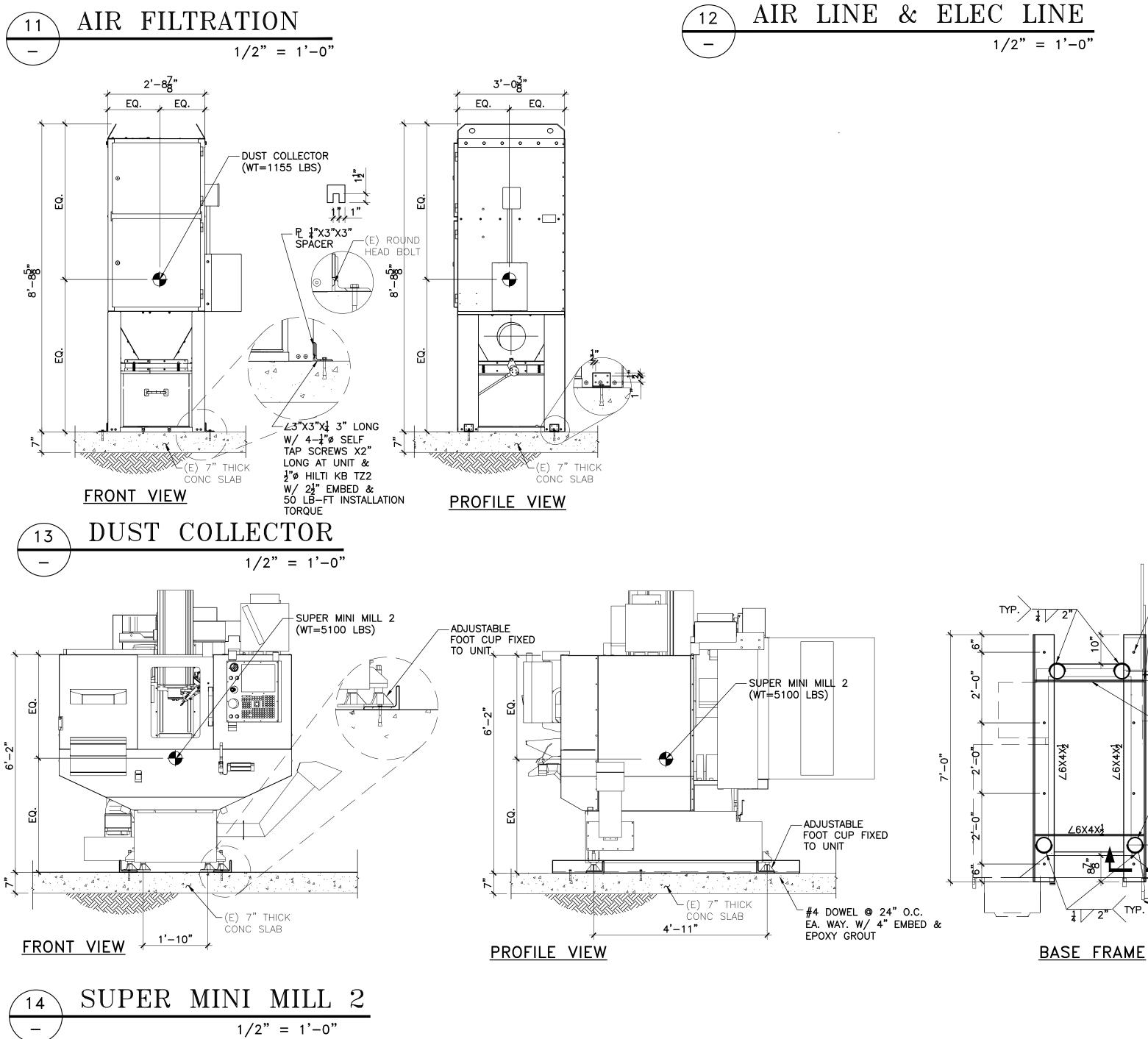


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	(E) 14GAX9"X3" "C" (E) <sup>3</sup> / <sub>4</sub> "	"
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    	(E) 14GAX9"X3" "C"	(E) 14GAX9"X3" "
TS 8X4X <sup>3</sup>		TS 8X4X <del>16</del>
(E)		
_		

DIV. OF THE STATE ARCHITED APP: 01-120289 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: 6/12/2023 APPROVAL STAMP: DIALOG® ISSUED FOR DSA SUBMITTAL V4 5.22.2023 IMPERIAL THIS DRAWING IS COPYRIGHTED AND MUST NOT BE USED, REPRODUCED, OR REVISED WITHOUT WRITTEN PERMISSION. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. VERIFY DIMENSIONS. DO NOT SCALE THIS DRAWING. REPORT INCONSISTENCIES AND OMISSIONS TO THE CONSULTANT FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK. DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE. ARCHITECT & PRIME CONSULTANT Taeho Um & Associates Structural Engineers T. 650.208.5251 taeho@thumase.com 37481 Mont. 2011 37481 Maple St. Ste. K Fremont, CA 94536 e-mail: Tel: MECHANICAL ENGINEER Tel: email: ELECTRICAL ENGINEER Tel: e-mail: SEAL NO. C30987 REN.<u>03/31/2023</u> STRUCTUR PCCD LANEY FAB LAB RELOCATION 900 FALLON STREET, OAKLAND, CA 94607 ROOF FRMG. PLAN DRAWN: TU PLOT DATE: 11/9/2022 CHECKED: TU TU S1.03

IDENTIFICATION STAMP





\_1"ø SCH 40 STEEL

"øོTHREAD ROD

W/ ROD STIFFNER

PÉR 8

EA. END.

- JET AFS-1000B

50.2

12GA WIRE W/

4 TURNS MIN. @

PIPE (GALV) SPACER

CHANNEL

`≩"ø M.B W∕

PLAN VIEW

, NUT & WASHER,

TYP.

≩"ø M.B W∕

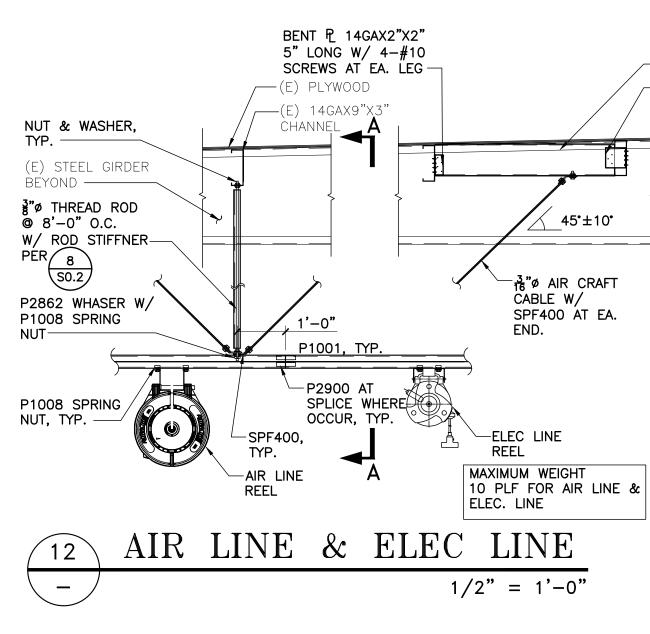
NUT & WASHER,

-BENT P 14GAX5"X2"

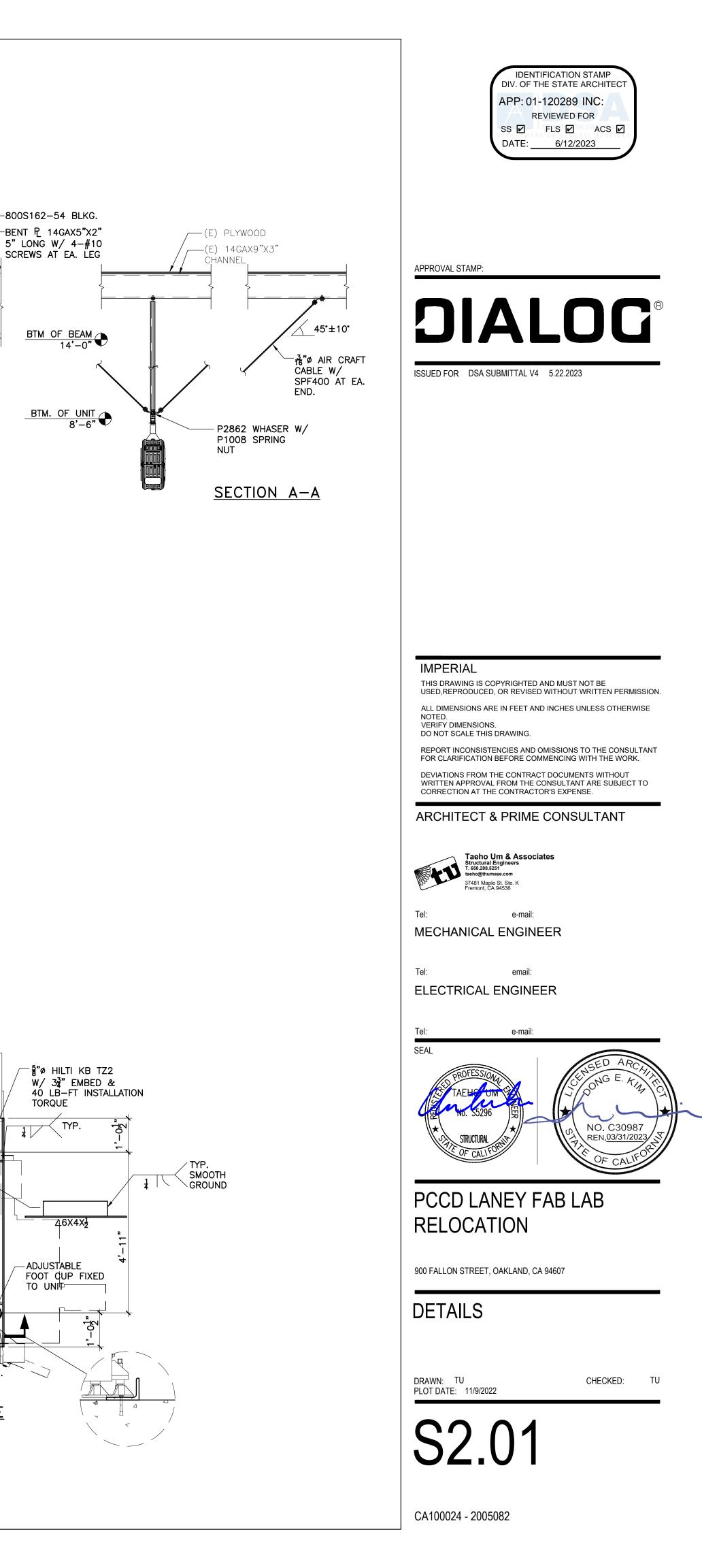
5" LONG W/ 4-#10

SCREWS AT EA. LEG

) 14GAX9"X3"



TYP.



**MECHANICAL NOTES & SPECIFICATIONS** 

- ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS, INCLUDING:
- 2019 CALIFORNIA BUILDING CODE (CBC) CCR TITLE 24 PART 2 1.1.
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) CCR TITLE 24 PART 3 1.2. 1.3. 2019 CALIFORNIA MECHANICAL CODE (CMC) - CCR TITLE 24 PART 4
- 2019 CALIFORNIA PLUMBING CODE (CPC) CCR TITLE 24 PART 5 1.4.
- 2019 CALIFORNIA FIRE CODE (CFC) CCR TITLE 24 PART 9 1.5.
- 1.6. 2019 CALIFORNIA EXISTING BUILDING CODE - CCR TITLE 24 PART 10 1.7. 2019 CALIFORNIA GREEN BUILDING (CGB) STANDARD
- 1.8. 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS

CONTRACTOR SHALL OBTAIN & PAY FOR ALL REQUIRED FEES, PERMITS & INSPECTIONS.

- COORDINATE ENTIRE INSTALLATION OF THE HVAC SYSTEM(S) WITH THE WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS FOR A COMPLETE AND WORKABLE INSTALLATION. COORDINATE ITEMS TO BE PROVIDED BY OTHER TRADES WHERE MENTIONED IN THE CONTRACT DOCUMENTS PRIOR TO BID - NO EXCEPTIONS. PROVIDE A COMPLETE WORKING SYSTEM PER CONTRACT DOCUMENTS.
- COORDINATE ALL WORK WITH THE ARCHITECTURAL, STRUCTURAL DRAWINGS AND DRAWINGS OF OTHER TRADES. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL WORK, STRUCTURAL MEMBERS AND WORK OF OTHER TRADES. NO ITEM SUCH AS PIPE, DUCT, ETC. SHALL BE IN CONTACT WITH ANY EQUIPMENT. ANY ERRORS, OMISSIONS, DISCREPANCIES, DEFICIENCIES, OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR, THE ARCHITECT AND THE ENGINEER PRIOR TO PROCEEDING WITH ANY AFFECTED WORK.
- 5. FIELD VERIFY EXACT SIZE & LOCATION OF (E)EQUIPMENT, DUCTWORK, & REGISTERS PRIOR TO INSTALLATION OF ANY NEW EQUIPMENT, DUCTWORK OR REGISTERS, IF THE (E)DUCTWORK SIZE IS SMALLER THAN THE NEW DUCTWORK SIZE, AND/OR THE (E)DUCTWORK IS NOT IN THE NOTED LOCATION, NOTIFY OWNER IMMEDIATELY & NO NEW DUCTWORK IS TO BE INSTALLED UNTIL THE ISSUE IS RESOLVED.
- COORDINATE THE LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING LAYOUT, FIRE SPRINKLER SYSTEM, AND ARCHITECTURAL ROOM ELEVATIONS. THE ARCHITECT AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS PRIOR TO FABRICATION AND INSTALLATION.
- EQUIPMENT, DUCTS, PIPING, & OTHER DEVICES & MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHER PROOFED & PAINTED TO MATCH. COORDINATE WITH ARCHITECT PRIOR TO PAINTING.
- 3. VERIFY ALL CLEARANCES & AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATION.
- . DIMENSIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND MUST BE CONFIRMED ON SITE AND/OR PER ARCHITECTURAL DRAWINGS. ANY SCALE NOTATIONS ARE TO BE 31. REMOVE ALL LEFT OVER DUCTWORK SCRAPS, ETC. (IF ANY) AND LEAVE PREMISES VERIFIED PRIOR TO ANY TAKE-OFF.
- 10. PRIOR TO OCCUPANCY THE ENTIRE HVAC SYSTEMS SHALL BE BALANCED FOR AIR IN ACCORDANCE AND PROCEDURES WITH (AABC) ASSOCIATED AIR BALANCE COUNCIL STANDARDS, (NEBB) NATIONAL ENVIRONMENTAL BALANCING BUREAU, OR (TABB) TESTING ADJUSTING AND BALANCING BUREAU. SYSTEMS SHALL BE BALANCED AS INDICATED ON PLANS INCLUDING OUTSIDE AIR VENTILATION. FINAL BALANCING SHALL BE WITHIN 10% FOR SUPPLY, RETURN AND OUTSIDE AIR QUANTITIES INDICATED. WHERE THERE IS A CONFLICT IN PLANS, NOTIFY THE ENGINEER PRIOR TO BALANCING OF SYSTEM. IF NOT DONE SO THE ENTIRE SYSTEM MUST BE RE-BALANCED DUE TO CONFLICTS ON CONTRACT DOCUMENTS. PROVIDE A COPY OF THE AIR BALANCE REPORT TO THE ENGINEER FOR REVIEW. PROVIDE PROCEDURES AND REPORTING PER CAL GREEN CODES SECTION 5.410.4.3, SECTION 5.410.4.3.1 AND SECTION 5.410.4.4.
- 11. PROVIDE TO BUILDING OWNER, PER CGB SEC. 5.410.4.5, AND CMC SEC 514.0, OPERATING PROCEDURES FOR THE USE, INSPECTION, TESTING, AND MAINTENANCE OF EQUIPMENT MANUAL INCLUDING INSPECTION AND REPORTS.
- 12. ADHESIVES, SEALANTS AND CAULKING SHALL BE COMPLIANT WITH LOW VOC OR OTHER TOXIC COMPOUND LIMITS SET BY (R) 4.504.2 AND/OR (NR)5.504.4.
- 13. EQUIPMENT, ACCESSORIES AND RELATED PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- 14. EQUIPMENT WITH MOVING PARTS, FIXED OR FLEXIBLY MOUNTED, SHALL BE PROVIDED WITH FLEXIBLE DUCT & PIPE CONNECTIONS & SHALL BE BRACED OR ANCHORED.
- 15. CONTROL AND POWER WIRING DIAGRAMS ARE DIAGRAMMATIC ONLY. REFER TO ELECTRICAL DRAWING FOR PROPER POWER WIRING DIAGRAM. SUBMIT CONTROL DRAWINGS FOR APPROVAL. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CONTROL DRAWINGS FROM UNIT MANUFACTURERS FOR PROPER WIRING AND OPERATION TO COMPLY WITH CONTROL SEQUENCE.
- 16. LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFIED IN THE ELECTRICAL SECTION OF THE SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS OF GOVERNING BODIES HAVING JURISDICTION THEREOF.
- 17. LOW VOLTAGE CONDUIT & WIRING AS APPLICABLE, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED & INSTALLED BY THE MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS OR SPECIFIED IN THE MECHANICAL SECTION OF THE SPECIFICATIONS.
- 18. ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED RELAY ACCESSORIES FOR CONNECTION OF 120V/1Ø VENTILATION EQUIPMENT TO 277V/1Ø LIGHTING AS APPLICABLE.
- 19. DUCTWORK CONSTRUCTION SHALL BE INSTALLED AND SEALED TO MEET THE REQUIREMENTS OF CMC. SECS 601.0, 602.0, 603.0, 605.0; AND ANSI SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE.
- 20. DUCTWORK SERVING DUST COLLECTION SYSTEMS SHALL BE AS PRESCRIBED BY THE ACGIH INDUSTRIAL VENTILATION - A MANUAL OF RECOMMENDED PRACTICES FOR MATERIAL AND INSTALLATION PRACTICES. INSTALLATION SHALL CONFORM TO DUCT COLLECTION SYSTEM RECOMMENDATIONS.
- 21. ALL SUPPLY, RETURN AND EXHAUST DUCT JOINTS SHALL BE SEALED PER CMC CHAPTER 6 REQUIREMENTS. SEAL CLASS B.
- 22. DUCTWORK CONSTRUCTION SHALL MEET THE FOLLOWING SYSTEM PRESSURE **REQUIREMENTS: ALL DUCTWORK - 2 INCH WATER COLUMN**
- 23. DUCTWORK CONSTRUCTION SHALL BE INSTALLED & SEALED TO MEET THE

REQUIREMENTS OF CMC SECS 601.0, 602.0, 603.0, 605.0; & ANSI, SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL & FLEXIBLE. DUCTWORK & ACCESSORIES WILL BE INSTALLED IN ACCORDANCE WITH NFPA 90A, NFPA 90B, ASHRAE HANDBOOK, & SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL & FLEXIBLE, UL 181 CERTIFIED & THE CMC & THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AS APPLICABLE. MOUNTING & SUPPORTING OF EQUIPMENT, DUCTS, ACCESSORIES, & APPURTENANCES SHALL BE PROVIDED, INCLUDING STRUCTURAL SUPPORTS, HANGERS, STANDS, CLAMPS & BRACKETS. NEW RECTANGULAR DUCTWORK SHALL BE SHEET METAL CONSTRUCTED OR SPIRAL ROUND.

- 24. WHERE OPENINGS HAVE BEEN MADE IN WALLS, FLOORS, OR CEILINGS FOR THE PASSAGE OF DUCTWORK OR PIPES, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS SECURELY
- 25. LIMIT USE OF PERMANENT HVAC SYSTEMS DURING CONSTRUCTION TO CONDITIONING NECESSARY FOR MATERIAL & EQUIPMENT INSTALLATION. IF PERMANENT HVAC IS USED DURING CONSTRUCTION, INSTALL MERV-8 FILTERS ON RETURNS, & REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION.
- 26. PROVIDE SEISMIC RESTRAINTS TO ALL DUCTWORK, PIPE, AND EQUIPMENT SUPPORTS IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES FOR SEISMIC RESTRAINT OF MECHANICAL SYSTEMS. SUSPENDED EQUIPMENT SHALL BE PROVIDED WITH SEISMIC ANCHORAGE AND ISOLATION SUPPORTS.
- 27. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OR THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
- 28. RECTANGULAR DUCT TURNS IN SUPPLY, RETURN, AND EXHAUST DUCTS SHALL HAVE TURNING VANES UNLESS OTHERWISE NOTED. OR SHALL HAVE A INNER RADIUS TURN OF NO LESS THAN THE WIDTH OF THE DUCT.
- 29. MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS, AS WELL AS OUTSIDE AIR INTAKE DUCTS. DAMPERS SHALL BE LOCATED AT THE BRANCH DUCT LOCATIONS. COORDINATE LOCATIONS OF DAMPERS WITH THE AIR BALANCING CONTRACTOR PRIOR TO BID, SO AS TO ENSURE ACCESSIBILITY AFTER INSTALLATION. IN LOCATIONS WHERE THESE DAMPERS ARE INACCESSIBLE, CABLE OPERATED ADJUSTMENT CONTROLS SHALL BE PROVIDED AT NO ADDITIONAL COST. OPPOSED BLADE DAMPERS SHALL NOT BE PERMITTED UNLESS OTHERWISE NOTED.
- 30. FOR INACCESSIBLE AREAS PROVIDE ACCESS PANELS FOR ALL DAMPERS, EQUIPMENT, SMOKE DETECTORS, & CONTROL DEVICES. THESE PANELS SHALL MATCH THE RATING OF THE WALL AND/OR CEILING THAT THEY ARE LOCATED IN. MINIMUM ACCESS PANEL SIZES SHALL BE 12"x12" FOR HAND ACCESS & 30"x30" MINIMUM FOR BODY ACCESS. WHERE A LARGER ACCESS PANEL IS REQUIRED DUE TO INSTALLATION CONSTRAINTS OR EQUIPMENT SIZE, DO SO AT NO ADDITIONAL COST & SHALL OBTAIN PRIOR APPROVAL FROM THE ARCHITECT, ENGINEER & DSA.
- CLEAN AND FREE OF ANY TRASH OR DEBRIS DUE TO THEIR WORK.

FAN												
TAG	SERVICE	LOCATION	GREENHECK MODEL NO	DESIGN FAN (CFM)	ESP IN WC	FAN RPM	НР	ELECT V/φ/HZ	OPER WEIGHT (LBS)	NOTES	ACCESSORIES	REF DETAIL
EF-1	<e-20></e-20>	ROOF	FPB-100-H-M	500	6.0	3500	2	120/1/60	88	FAN INTERLOCKED WITH MACHINERY	INLET/ OUTLET FLANGE, DISCHARGE COVER	5 & 6 M1.00
EF-2	<e-21></e-21>	ROOF	FPB-100-H-M	500	6.0	3500	2	120/1/60	88	FAN INTERLOCKED WITH MACHINERY	INLET/ OUTLET FLANGE, DISCHARGE COVER	5 & 6 M1.00
EF-3	CLEAN ROOM	ROOF	CUE-099-VG	250	1.0	1654	1/4	120/1/60	60		14" ROOF CURB, PERFORMANCE BAFFLE, DIAL CONTROL FOR BALANCING	2 M1.00
EF-4	GENERAL	ROOF	CUE-090-VG	400	0.5	1458	1 / 10	120/1/60	50		14" ROOF CURB, PERFORMANCE BAFFLE, DIAL CONTROL FOR BALANCING	2 M1.00

FASTENED TO THE ADJOINING STRUCTURE, ALL IN ACCORDANCE WITH CMC 316.11.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC SECTION 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND THE BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP[x] MD[x] PP[ ] E[ ] OPTION 1: DETAILED ON THE APPROVED DRAWINGS AND PROJECT SPECIFIC NOTES AND DETAILS.

MP[] MD[] PP[] E[] OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#);(I.E. OPM 0114-13 B-LINE, OPM#-0043-13 MASON INDUSTRIES INC., AND OPM#-0203-13 M.W. SAUSSE & CO. INC.).

### M/E/P COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS
- 2 TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDED ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSFERS AND LONGITUDINAL DIRECTIONS:

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR
- LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

### CMC 503.1: GENERAL:

MOTORS AND FANS SHALL BE SIZED TO PROVIDE THE REQUIRED AIR MOVEMENT. MOTORS IN AREAS THAT CONTAIN FLAMMABLE VAPORS OR DUST SHALL BE OF A TYPE APPROVED FOR SUCH ENVIRONMENTS. A MANUALLY OPERATED REMOTE CONTROL INSTALLED AT AN APPROVED LOCATION SHALL BE PROVIDED TO SHUT OFF FANS OR BLOWERS IN FLAMMABLE VAPOR OR DUST SYSTEMS. ELECTRICAL EQUIPMENT USED IN OPERATIONS THAT GENERATE EXPLOSIVE OR FLAMMABLE VAPORS, FUMES, OR DUSTS SHALL BE INTERLOCKED WITH THE VENTILATION SYSTEM SO THAT THE EQUIPMENT CANNOT BE OPERATED UNLESS THE VENTILATION FANS ARE IN OPERATION. MOTORS FOR FANS USED TO CONVEY FLAMMABLE VAPORS OR DUSTS SHALL BE LOCATED OUTSIDE THE DUCT OR SHALL BE PROTECTED WITH APPROVED SHIELDS AND DUSTPROOFING. MOTORS AND FANS SHALL BE ACCESSIBLE FOR SERVICING AND MAINTENANCE.

### **PROJECT SUMMARY**

- PRIOR TO ANY WORK OR DEMOLITION BEING DONE, AIR BALANCING CONTRACTOR SHALL TAKE READINGS OF EXISTING AIR SUPPLY & RETURN OF AIR-HANDLING UNIT AND INLET/OUTLET AIR DISTRIBUTION.
- ALL EXISTING DUCTWORK AND COILS SHALL BE CLEANED
- INSTALL NEW DUST COLLECTION DUCTWORK FOR EQUIPMENT.
- INSTALL NEW COMPRESSED AIR PIPING FOR EQUIPMENT
- REWORK EXISTING DUCTWORK TO PROVIDE CONDITIONED AIR FOR ENCLOSED ROOMS.
- INSTALL EXHAUST FANS FOR EQUIPMENT REQUIRING EXHAUST
- INSTALL EXHAUST FANS FOR EQUIPMENT REQUIRING EXHAUST. PROVIDE TRANSFER AND RETURN GRILLES FOR ENCLOSED ROOMS
- PERFORM FINAL AIR BALANCE

	MECHANICAL LEGEND							
SYMBOL	ABBREVIATION	DESCRIPTION						
	AFF	ABOVE FINISHED FLOOR						
	AL	ACOUSTICALLY LINED						
	OA	OUTSIDE AIR						
	RA	RETURN AIR						
	SA	SUPPLY AIR						
	ТА	TRANSFER AIR						
	BG	BLAST GATE						
	BOD	BOTTOM OF DUCT						
	CFM	CUBIC FEET PER MINUTE						
<u> </u>	BDD	DAMPER: BACKDRAFT						
	FD	DAMPER: FIRE						
	FSD	DAMPER: FIRE/SMOKE						
	MVD	DAMPER: MANUAL VOLUME						
	Ø	DIAMETER						
	DN	DOWN						
	DS	DISCONNECT SWITCH						
<u>s</u>	DSD	DUCT SMOKE DETECTOR						
	EER	ENERGY EFFICIENCY RATIO						
	(E)	EXISTING						
	F	FAN						
	FLA	FULL LOAD AMPS						
		FLEXIBLE DUCT						
	HP	HORSEPOWER						
	MCA	MINIMUM CIRCUIT AMPACITY						
	МОР	MAXIMUM OVERCURRENT PROTECTION						
	MS	MOTOR STARTER						
	RL	REFRIGERANT LIQUID						
	RS	REFRIGERANT SUCTION						
	ТР	RATED THRU PENETRATION						
	SEER	SEASONAL EER						
	SAD	SEE ARCHITECTURAL DRAWING						
	SSD	SEE STRUCTURAL DRAWING						
		SENSOR: CARBON DIOXIDE						
		THERMOSTAT						
	ТҮР	TYPICAL						
	UON	UNLESS OTHERWISE NOTED						
	WT	WEIGHT						
	24x12	RECTANGULAR DUCT - INCHES						
	12"	ROUND DUCT - INCHES						
		WIRING AND CONDUIT BY ELECTRICAL CONTRACTOR.						
		CONDUIT, WIRING AND FINAL CONNECTION BY MECHANICAL OR CONTROL CONTRACTOR.						
E		FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.						
M		FURNISHED AND INSTALLED BY MECHANICAL OR CONTROL CONTRACTOR						

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**IDENTIFICATION STAMP** 

DIV. OF THE STATE ARCHITEC

Tel: 510.894.2984 e-mail: MECHANICAL ENGINEER H&M MECHANICAL GROUP 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 email:

FREMONT CA, 94536

ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 Tel: 925,385,0649 e-mail:



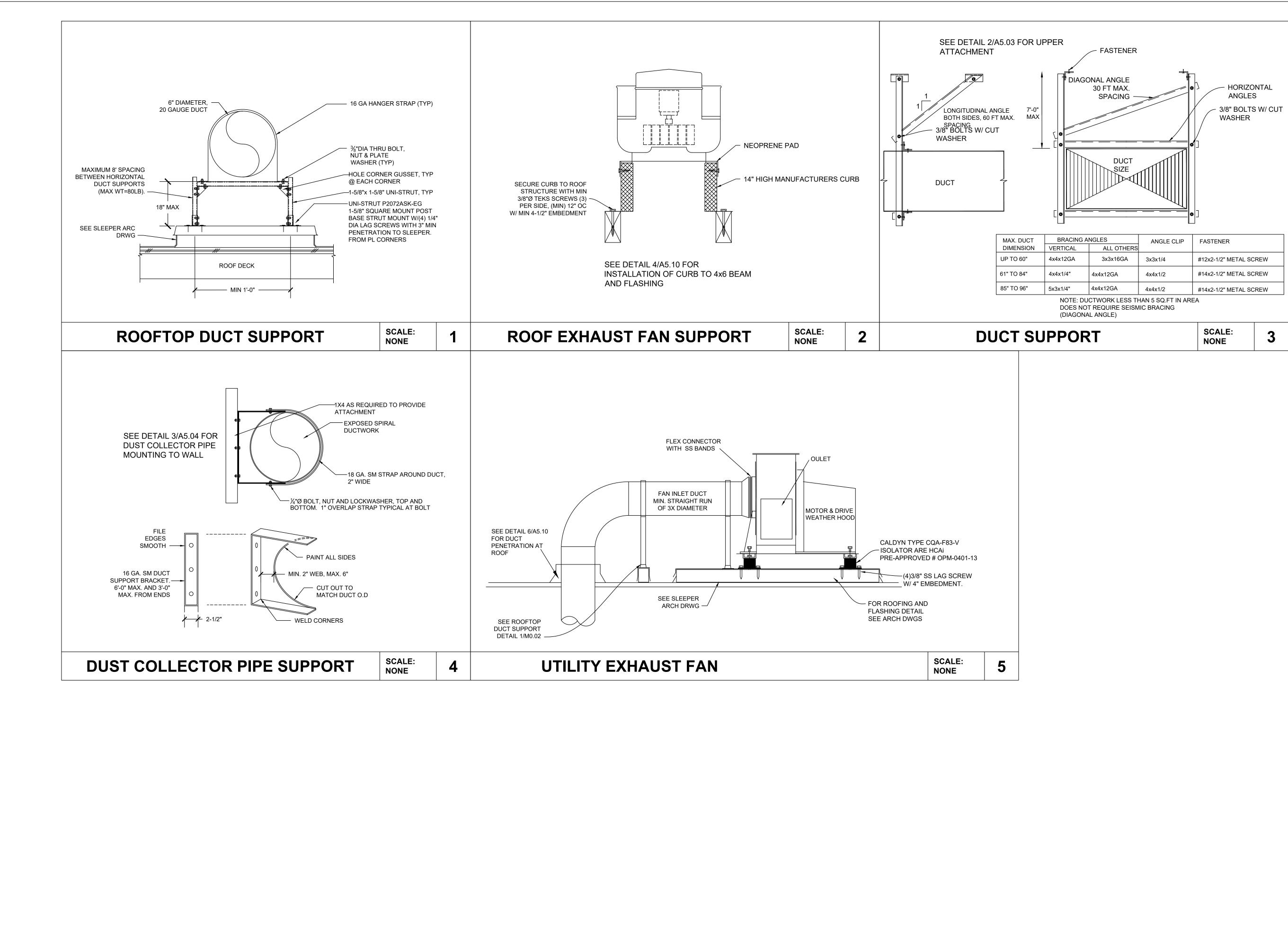
# PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

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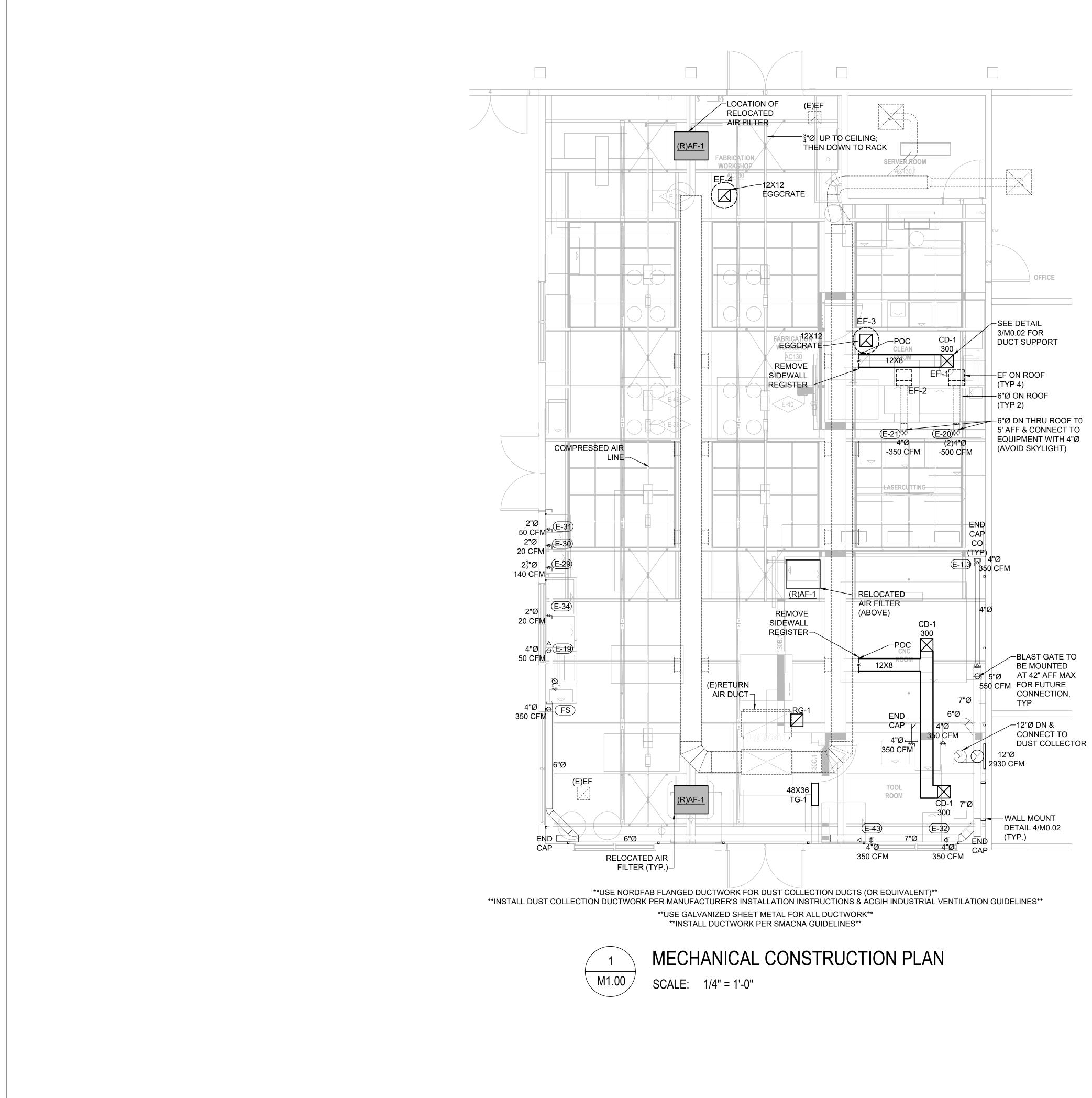
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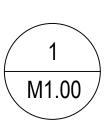
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CA100024 - 2005082





AIR BALANCING:

EQUIPMENT: REFER TO ARCHITECTURAL PLAN A9.00 FOR COORDINATION OF EQUIPMENT CONNECTIONS

CONNECTIONS: ALL DUST COLLECTION DROPS SHALL TERMINATE @ 42" AFF WITH BLAST GATE AND CONNECTION PIECE FOR FUTURE CONNECTION TO EQUIPMENT.

(30) ROUTER

# GENERAL NOTES:

NEW DUCTWORK SHALL NOT OBSTRUCT THE FUNCTION AND SPRAY PATTERN OF THE EXISTING FIRE SPRINKLER SYSTEM. CONTRACTOR SHALL MAINTAIN CLEARANCE REQUIREMENTS AS DEFINED IN 2016 NFPA 13, CHAPTER 8. OBSTRUCTED CONDITIONS SHALL BE CORRECTED VIA A DSA CCD APPROVAL PROCESS.

TOTAL AIR QUANTITY HAS NOT CHANGED. TAKE READING OF EXISTING SIDEWALL REGISTER. AFTER INSTALLATION OF NEW DUCTWORK, BALANCE NEW REGISTER(S) TO MATCH PREVIOUS READING.

RELOCATED AIR FILTERS: AIR FILTERS ARE EXISTING IN ANOTHER BUILDING AND SHALL BE TURNED OVER TO CONTRACTOR FOR INSTALLATION.

# EQUIPMENT SCHEDULE

(E-1.3) SHOPBOT - VAC PUMP (E-19) MILL DESKTOP (E-20) LASER CUTTER, UNIVERSAL PLS6.150D (E-21) LASER CUTTER, EPILOG HELIX (29) SPINDLE SANDER (31) SCROLL SAW (32) DRILL PRESS

(34) SLIDE MITER SAW E-43 BAND SAW

(FS) FLOOR SWEEP

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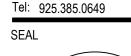
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ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607

Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

MECHANICAL ENGINEER H&M MECHANICAL GROUP 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 email:

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# PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

## MECHANICAL CONSTRUCTION PLAN

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	GENERAL NOTES
1 2 3	BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ADA FIXTURE LOCATIONS AND MOUNTING HEIGHTS. (INSULATE ALL EXPOSED HOT AND COLD WATER AND DRAIN PIPING BELOW ADA LAVATORIES AND SINKS AND OFFSET P-TRAP AGAINST WALL. ALSO, ALL FLUSH VALVES SHALL BE TO WIDE SIDE OF
4	STALL.) TRAPS FOR ALL LAVATORIES AND SINKS SHALL TRAP STRAIGHT BACK TO WALL WITH ALL REQUIRED OFFSETS HAPPENING WITHIN THE WALL. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE IN THE NAME OF THE OWNER AND SHALL PAY ALL
5	MATERIAL AND LABOR COSTS INCIDENTAL TO AN OPERABLE UTILITY SERVICE AS REQUIRED BY THE DESIGNATED GOVERNING AUTHORITIES OF THE CITY.
6	ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING ACCESS PANELS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS
7	AND THE ELEC. LIGHTING LAYOUT.
8	THE PLUMBING CONTRACTOR SHALL PROVIDE THE WATER, SEWER AND STORM DRAIN SYSTEMS TO A POINT OF CONNECTION SHOWN ON FLOOR PLANS AND SHALL MEET THE INVERT ELEVATION AS FIELD VERIFIED WHILE MAINTAINING REQUIRED PIPE GRADE.
9	ANY ALTERATIONS TO A STRUCTURAL MEMBER, SUCH AS CUTTING, BORING, BRAZING, DRILLING, WELDING, ETC. SHALL HAVE PRIOR WRITTEN APPROVAL OF ARCHITECT AND STRUCTURAL ENGINEER.
10	ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
11	CONTRACTOR TO PROVIDE WATER HAMMER ARRESTORS AS MANUFACTURED BY JAY R. SMITH. WATER HAMMER ARRESTORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS ON ALL DOMESTIC WATER BRANCH LINES SERVING FIXTURES.
12	ALL PLUMBING FIXTURE VENTS TO TERMINATE A MIN. OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKES.
13	ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL COORDINATE LAYOUT OF ALL BELOW GRADE PIPING AND COMPONENTS WITH GENERAL CONTRACTOR PRIOR TO BID TO
14	DETERMINE EXTENT OF REQUIRED SAW CUTTING, EXCAVATION, AND SUBSEQUENT REPAIR/RESTORATION OF ALL AFFECTED HARDSCAPE AND SOFTSCAPE SURFACES. ALL SUCH ITEMS SHALL BE INCLUDED IN BID.
15	BEFORE FABRICATION OR INSTALLATION THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN FIELD.
16	ALL POINTS OF CONNECTION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO BID.
17	ALL WASTE AND VENT PIPING SHALL SLOPE AT 2% UNLESS OTHERWISE INDICATED. ALL VALVES, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED
18	BEHIND AN ACCESS PANEL. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE A PART OF SEPARATE AND COMPLETE MECHANICAL
20	SPECIFICATIONS. CONNECTION BETWEEN INCOMPATIBLE MATERIALS ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS
21	SEPARATED BY A SIX INCH (6") SECTION OF RED BRASS PIPE. ALL EXTERIOR GAS COCKS, WATER SHUT OFF VALVES AND/OR SEWER CLEANOUTS BELOW GROUND SHALL BE INSTALLED IN YARD BOXES WITH THE
22	COVERS CONSPICUOUSLY MARKED "GAS", "WATER", AND "SEWER" RESPECTIVELY. THE CONTRACTOR SHALL VERIFY THE EXACT ELEVATIONS AND LOCATION OF EXISTING DRAINAGE SYSTEM PIPING PRIOR TO CONNECTION OF ANY PIPING.
23	ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING. AT WALL OR COLUMN LOCATIONS, PIPING ROUGH-IN SHALL BE STUBBED IN WALLS WHENEVER POSSIBLE.
24	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL EXISTING TO REMAIN STRUCTURE AND NEW CONSTRUCTION DAMAGED BY HIS OPERATIONS.
25	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL PAVED AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL PLANTED AREAS DAMAGED BY HIS OPERATIONS.
26	ALL PATCHING AND REPAIRING OF CONCRETE PAVING AND/OR WALKS SHALL BE UNDER ANOTHER SECTION OF THE SPECIFICATIONS.
27	ALL EXISTING PIPING DAMAGED DURING EXCAVATION SHALL BE REPAIRED WITH MATERIALS TO MATCH EXISTING BY THE CONTRACTOR AT NO COST TO THE OWNER.
28	ALL CUTTING OF EXISTING PAVING, WALKS AND/OR FLOORS SHALL BE BY MACHINE SAW CUTTING. HOLES FOR PIPES IN CONCRETE WALLS OR FLOORS SHALL BE DONE BY CORE DRILLING EQUIPMENT.
29	ALL PIPING, EXCEPT PIPING OF NONFERROUS MATERIAL, INSTALLED WITHIN THE GROUND SHALL BE PROTECTED AGAINST CORROSION BY A PROTECTIVE COVERING SUITABLE FOR THE PURPOSE AND SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. ANY PIPING SUBJECT TO UNDUE CORROSIVE ACTION SHALL BE PROTECTED IN A MATTER SUITABLE FOR THE PURPOSE AND SUBJECT TO THE APPROVAL OF THE APPROVAL OF THE BUILDING OFFICIAL.
30	ALL PENETRATIONS AND OPENINGS IN PARTY WALLS AND ROOF/FLOOR/CEILING ASSEMBLIES DUE TO PLUMBING WORK SHALL BE SEALED LINED, INSULATED OR OTHERWISE TREATED TO MAINTAIN THE REQUIRED FIRE AND SOUND RATING.
	M/E/P COMPONENT ANCHORAGE NOTES
CONST PRESC	CHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED RUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS RIBED IN 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:
TEN 2 GAS	. PERMANENT EQUIPMENT AND COMPONENTS MPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, S OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDED ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING LEXIBLE CABLE.
THE FC	MPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE JACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA. OLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN IANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT SSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSFERS AND LONGITUDINAL TONS:
A LE	MPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF (EL THAT DIRECTLY SUPPORT THE COMPONENT. MPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED
THE AN	OM A ROOF OR FLOOR OR HUNG FROM A WALL ICHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN AL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL
	THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.
PIP	ING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
7-16 SE THE ME BRACIN SYSTEN DISTRIE	DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE CTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC SECTION 1617A.1.24, 1617A.1.25 AND 1617A.1.26 THOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN IG AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR CBC 2013 OR LATER), COPIES OF THE BRACING INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE BUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND THE LOADS.
MECHA	NICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
	PP OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#); (I.E. OPM 0114-13 B-LINE, OPM#-0043-13 MASON INDUSTRIES INC., AND OPM#-0203-13 M.W. SAUSSE & CO. INC.).

	PLUME	BING LEGEND
SYMBOL	ABBREVIATION	DESCRIPTION
	W	SANITARY WASTE/SEWER PIPING
	V	WASTE/SANITARY VENT PIPING
		DEMO FIXTURE/PIPING
	(E)W	EXISTING SANITARY SEWER PIPING
	(E)V	EXISTING SANITARY VENT PIPING
	CW	DOMESTIC COLD WATER PIPING
	HW	DOMESTIC HOT WATER PIPING
	HWR	DOMESTIC HOT WATER RETURN PIPING
	(E)CW	EXISTING COLD WATER PIPING
	(E)HW	EXISTING HOT WATER PIPING
	(E)HWR	EXISTING HOT WATER RETURN PIPING
	CA	COMPRESSED AIR PIPING
CD	CD	CONDENSATE DRAIN PIPING
С		PIPE GOING DOWN
0		PIPE GOING UP
——са—— С		TEE
\$ ●	FCO	FLOOR CLEANOUT/CLEANOUT TO GRADE
x		P-TRAP
•	POC	POINT OF CONNECTION
	WCO	WALL CLEANOUT
		PIPE CAP
	НВ	HOSE BIBB
$\bowtie$	SOV	SHUT-OFF VALVE
	SOVAP	SHUT-OFF VALVE BEHIND ACCESS PANEL
	SOVYB	SHUT-OFF VALVE IN YARD BOX
$\otimes$	FD	FLOOR DRAIN
	FS	FLOOR SINK
	CONT.	CONTINUED/CONTINUATION
	DFM	DISTANCE FROM METER
	FR.	FROM
	BEL.	BELOW
	DN.	DOWN
	AP	ACCESS DOOR
	NIC	
	REF.	
	S.A.D.	SEE ARCHITECTURAL DRAWINGS
	S.M.D.	SEE MECHANICAL DRAWINGS

### LIST OF APPLICABLE CODES

LIST OF CODES AND STANDARDS MODEL CODE EDITIONS EFFECTIVE JANUARY 1, 2020 2019 CA BUILDING CODE TITLE 24 PART 2 VOLUME #1 AND #2 2019 CA ELECTRICAL CODE TITLE 24 PART 3 2019 CA MECHANICAL CODE TITLE 24 PART 4 2019 CA PLUMBING CODE TITLE 24 PART 5

2019 CA FIRE CODE TITLE 24 PART 9

2019 CA BUILDING STANDARDS TITLE 24 PART 9

APPROVAL STAMP:



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ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607

Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

MECHANICAL ENGINEER H&M MECHANICAL GROUP 8517 EARHART RD., #230 OAKLAND, CA 94621

Tel: 510.569.2000 email: ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC.

3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549







# PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

# PLUMBING GENERAL NOTES AND LEGEND

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# PLUMBING SPECIFICATIONS

### 1.0 GENERAL

DESCRIPTION OF WORK: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND PAY ALL FEES REQUIRED TO COMPLETE ALL PLUMBING WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING:

DOMESTIC COLD WATER SYSTEM

INSULATION EXCAVATION, TRENCHING, AND BACKFILLING FOR WORK UNDER THIS SECTION MISCELLANEOUS STEELWORK (FLOOR SLEEVES, SLOTS, INSERTS, PLATES, SUPPORTS, HANGERS, ETC.)

INCORPORATED DOCUMENTS: PUBLISHED SPECIFICATIONS, STANDARDS, TESTS OR RECOMMENDED METHODS OF TRADE, INDUSTRY OR GOVERNMENTAL ORGANIZATIONS APPLY TO WORK OF THIS SECTION.

REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS

PERMITS: OBTAIN AND PAY FOR ALL FEES, PERMITS AND INSPECTIONS. DELIVER ALL CERTIFICATES OF INSPECTION TO ARCHITECT.

LEGAL REQUIREMENTS AND STANDARDS: COMPLY WITH APPLICABLE SECTIONS OF STATE AND LOCAL CODES, LAWS, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION. SUCH REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE REQUIREMENTS FOR THE WORK. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY CALL FOR MATERIALS OR CONSTRUCTION OF BETTER QUALITY OR LARGER SIZE THAN REQUIRED BY CODES, LAWS, RULES, AND REGULATIONS.

SERVICE CONNECTIONS: ARRANGE AND PAY ALL COSTS FOR UTILITIES REQUIRED TO COMPLETE ALL WORK OF THIS DIVISION. CONNECTION TO ALL UTILITY OR ON-SITE SERVICES, PAYMENT OF SERVICE CHARGES, AND PROVISION FOR INSTALLATION OF TEMPORARY UTILITIES SHALL BE INCLUDED.

LIABILITY OF SUBSTITUTIONS:

PERFORMANCE OF SUBSTITUTIONS MUST BE EQUAL TO THE ITEM SPECIFIED. SHOULD THE SUBSTITUTED ITEM FAIL TO PERFORM ACCORDING TO THE SPECIFICATIONS, REPLACE WITH THE ORIGINALLY SPECIFIED ITEM. NO REQUEST FOR EXTRA COMPENSATION SHALL BE GRANTED.

THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY CHANGES RESULTING FROM APPROVED SUBSTITUTIONS

## 2.0 PRODUCTS

BEYOND MATERIAL AND EQUIPMENT SPECIFIED, ALSO PROVIDE INCIDENTAL MATERIALS REQUIRED TO EFFECT COMPLETE INSTALLATION. SUCH INCIDENTAL MATERIALS INCLUDE SOLDER. TAPES, CAULKING, MASTIC, GASKETS, AND SIMILAR ITEMS.

SEALS: FILL ALL CRACKS AND OPEN SPACE BETWEEN FIXTURES AND WALL OR FLOOR WITH NON-ELASTOMERIC SEALER.

FINISH ON EXPOSED PIPES, TRAP, FITTINGS, VALVES, STOPS, ESCUTCHEONS, AND ACCESSORIES SHALL BE CHROME-PLATED BRASS. EXPOSED SHALL INCLUDE ITEMS LOCATED UNDER OPEN COUNTERS AND INSIDE CABINETS WITH DOORS.

ACCESS DOORS/PANELS

PROVIDE ACCESS DOORS/PANELS WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND BY THE DRAWINGS AND SPECIFICATIONS. INCLUDING BUT NOT LIMITED TO THE FOLLOWING LOCATIONS: ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, UNIONS, ETC. FURNISH FIRE-RATED DOORS WHEN LOCATED IN RATED CONSTRUCTION.

ACCEPTABLE MANUFACTURERS: KARP OR EQUAL.

12" X 12" MIN. FOR WALLS; 24" X 24" FOR CEILINGS.

DOMESTIC COLD WATER AND COMPRESSED AIR PIPING SYSTEM

ABOVE GROUND: TYPE "L" COPPER TUBING, HARD TEMPER, COLD DRAWN. INSTALL COMPRESSED AIR LINE IN ACCORDANCE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND UFGS GUIDELINES

**FITTINGS, SOLDER & UNIONS** 

FITTINGS: WROUGHT COPPER OR CAST BRASS SOLDER SWEAT TYPE.

SEALS: USE 95-5 LEAD-FREE SOLDER FOR COPPER PIPING.

UNIONS: SHALL BE INSTALLED AT THE INLET AND OUTLET OF ALL APPARATUS AND EQUIPMENT, AT ALL VALVES, AND ELSEWHERE AS REQUIRED TO FACILITATE REMOVAL OF VALVES AND EQUIPMENT.

DIELECTRIC UNIONS: CONNECTION BETWEEN INCOMPATIBLE MATERIALS, SUCH AS DISSIMILAR METALS, ABOVE GRADE AND INSIDE BUILDING SHALL BE MADE WITH TWO (2) DIELECTRIC UNIONS SEPARATED BY A TWELVE INCH (12") SECTION OF RED BRASS PIPE. DIELECTRIC UNION ISOLATOR FOR CONNECTION PIPING OR NON-COMPATIBLE MATERIALS SHALL BE OF STANDARD COMMERCIAL DESIGN WITH THREADED CONNECTIONS.

### INSULATION

INSULATE ALL P-TRAP AND HOT AND COLD WATER ANGLE VALVE ASSEMBLIES ON FIXTURES WHERE TRAP AND SUPPLY PIPING IS EXPOSED OR ACCESSIBLE. INSULATION SHALL BE FULLY MOLDED, WHITE IN COLOR, "PROWRAP" SEAMLESS PREWRAPPED INSULATION KIT AS MANUFACTURED BY MCGUIRE.

VALVES AND IRREGULAR PIPELINE ACCESSORIES SHALL BE INSULATED WITH OVERSIZED SECTIONS OF PIPE INSULATION.

INSERT SECTIONS SHALL BE INSTALLED ON ALL INSULATED PIPING. LOCATE CENTRALLY UNDER EACH HANGER WHERE THE INSULATION RESTS ON THE HANGER. INSERTS SHALL BE AS RECOMMENDED BY MANUFACTURER.

### PENETRATION OF WALL

ALL PIPE PENETRATIONS SHALL BE SEALED WITH A PRODUCT THAT WILL SEAL AGAINST THE SPREAD OF FLAME, SMOKE, GASES AND WATER, FOR A RATING EQUIVALENT TO (OR GREATER THAN) THAT OF THE WALL/FLOOR BEING PENETRATED.

ESCUTCHEONS: PROVIDE 1" WIDE CHROME OR NICKEL PLATED PLATES ON ALL PIPES EXPOSED TO VIEW. PASSING THROUGH FLOORS. WALLS. PARTITIONS. ETC. SIZE ESCUTCHEONS TO FIT PIPE AND PIPE COVERING AND TO GIVE A FINISHED APPEARANCE. ESCUTCHEONS SHALL BE HELD IN PLACE BY SET SCREW. PROVIDE PLATES ON PIPES

EXTENDING THROUGH SLEEVES.

PIPE ISOLATION

MANUFACTURERS: SEMCO, TRISOLATOR, OR EQUAL

PROVIDE PIPE AND SOUND ISOLATION FOR ALL PIPING THROUGH WALLS. ACCEPTABLE MANUFACTURERS: ACOUSTOPLUMB BY LSP PRODUCTS, HOLDRITE SILENCER BY HUBBARD ENTERPRISES, OR EQUAL.

### PIPE SUPPORTS

FOR PIPING 1/2", 3/4" AND 1", FURNISH AND INSTALL THE ACOUSTOPLUMB SYSTEM AS MANUFACTURED BY LSP SPECIALTY PRODUCTS COMPANY.

ANY PART OF THE BUILDING.

WIRE FOR HANGING OR STRAPPING PIPES NOT PERMITTED. SUPPORT EACH RUN OF PIPE INDEPENDENTLY FROM ALL OTHER PIPING.

### PLUMBING FIXTURES

WATER CONNECTIONS: MUST HAVE RIGID METAL TO METAL CONNECTION. SLIP JOINTS UTILIZING NON-METALLIC WASHERS ARE NOT PERMITTED.

### VALVES: DOMESTIC WATER

PROVIDE VALVES WITH FEATURES INDICATED AND WHERE NOT OTHERWISE INDICATED, PROVIDE PROPER VALVE FEATURES AS OUTLINED IN THIS SPECIFICATION. COMPLY WITH ANSI B31.1.

SIZE VALVES TO MATCH UPSTREAM PIPE, UNLESS OTHERWISE INDICATED.

BALL VALVES: MSS SP-110; RATED FOR 600 WOG PRESSURE; FULL PORT. TWO OR THREE PIECE BRONZE BODY CONSTRUCTION, TEFLON SEAT AND SEALS, LOCKING TYPE HANDLE VALVES 2" AND SMALLER: NIBCO T/S-685-80-LF, WATTS SERIES LFB6080/LFB6081 OR EQUAL.

### 3.0 EXECUTION

DIVISION. REMOVE REPLACED PARTS FROM PREMISES.

PROVIDE CARPENTRY, CUTTING, PATCHING, AND CORE DRILLING REQUIRED FOR INSTALLATION OF MATERIAL AND EQUIPMENT SPECIFIED IN THIS DIVISION. DO NOT CUT, CORE OR DRILL STRUCTURAL MEMBERS WITHOUT CONSENT OF STRUCTURAL ENGINEER.

### GENERAL PIPING INSTALLATION

TIGHT TO WALLS OR CEILINGS, UNLESS OTHERWISE NOTED.

VERIFY ALL INVERTS IN PITCHED LINES BEFORE STARTING WORK.

THOROUGHLY CLEAN PIPING BEFORE INSTALLATION. CAP ALL PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS MADE.

REAM PIPE ENDS TO REMOVE BURRS, CAREFULLY INSPECT EACH LENGTH OF PIPE, AND REMOVE ALL OBSTRUCTIONS PRIOR TO FABRICATION.

EQUIPMENT BY OTHERS: FOR ROUGH-INS AND FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS, ASCERTAIN EXACT SIZES, SERVICES AND LOCATIONS BEFORE STARTING WORK. VERIFY ACCURACY OF WORK SHOWN BEFORE STARTING WORK. CONTRACTOR RESPONSIBLE FOR PROVIDING PROPER INSTALLATION.

COORDINATE THE INSTALLATION OF ACCESS PANELS WITH THE ITEM BEING SERVED. VALVES AND EQUIPMENT LOCATED IN CEILING SPACES SHALL BE ACCESSIBLE AND LOCATED NO MORE THAN 2'-0" ABOVE THE ACCESS PANEL AND WITHIN ARM'S REACH, WHERE POSSIBLE.

GUIDELINES FOR MECHANICAL SYSTEMS".

PROPERLY SUPPORT ALL MATERIALS, EQUIPMENT AND APPARATUS. ALL HANGERS AND SUPPORTS SHALL HAVE MINIMUM SAFETY FACTOR OF FIVE (5), BASED ON ULTIMATE TENSILE OR COMPRESSIVE STRENGTH, AS APPLICABLE, OF MATERIAL USED. PROVIDE BRACING TO PREVENT LATERAL MOTION OF SUSPEND MATERIALS.

PROVIDE PIPE ISOLATION FOR ALL PIPING THROUGH WALLS AND FLOORS. NO PIPING SHALL HAVE DIRECT CONTACT WITH WALLS, CEILINGS, FLOORS, PIPE SUPPORTS, OR HANGERS.

### TESTING AND ADJUSTING

TEST ALL SYSTEMS IN ACCORDANCE WITH THE GOVERNING PLUMBING CODE AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.

PROVIDE ALL EQUIPMENT REQUIRED FOR TESTING, INCLUDING FITTINGS FOR ADDITIONAL OPERATING.

AFTER THE INSPECTION HAS BEEN APPROVED, OR PORTIONS THEREOF, CERTIFY IN WRITING THE TIME, DATE, NAME, AND TITLE OF THE PERSON REVIEWING THE TEST. INCLUDE THE DESCRIPTION OF WHAT PORTION OF THE SYSTEM HAS BEEN APPROVED.

A COMPLETE RECORD SHALL BE MAINTAINED OF ALL TESTING THAT HAS BEEN APPROVED, AND SHALL BE MADE AVAILABLE AT THE JOB SITE.

UPON COMPLETION OF THE WORK, ALL RECORDS AND CERTIFICATIONS APPROVING TESTING REQUIREMENTS SHALL BE SUBMITTED TO THE ARCHITECT BEFORE FINAL PAYMENT IS MADE.

DEFECTIVE WORK OR MATERIAL SHALL BE REPLACED OR REPAIRED, AS NECESSARY, AND THE INSPECTION AND TEST REPEATED. REPAIRS SHALL BE MADE WITH NEW MATERIALS. NO CAULKING OF SCREWED JOINTS OR HOLES WILL BE ACCEPTABLE.

### DISINFECTION OF WATER SYSTEMS

DISINFECT WATER SYSTEMS AS RECOMMENDED BY THE PUBLIC HEALTH DEPARTMENT AND ALL AUTHORITIES HAVING JURISDICTION.

### **IDENTIFICATION**

IDENTIFY ALL PIPING WITH BRADY PERMA-CODE, SETON, OR APPROVED EQUAL, SELF STICKING PIPE MARKERS CONSISTING OF PIPE CONTENT WORDING AND ARROW INDICATING DIRECTION OF FLOW, PER ANSI STANDARD A13.1.

IDENTIFY ALL CAPPED PIPING AND VALVES WITH 1-1/2" DIAMETER BRASS DISC STAMPED WITH 3/8" HIGH LETTERS SHOWING TYPE OF SERVICE AND VALVE NUMBER. TAGS SHALL BE ATTACHED WITH BRASS CHAIN.

### COMPLETION

COMPLETED.

**BEFORE FINAL REVIEW:** THE WORK HEREUNDER WILL NOT BE REVIEWED FOR FINAL ACCEPTANCE UNTIL OPERATING AND MAINTENANCE DATA, MANUFACTURER'S LITERATURE, VALVE DIRECTORIES, PIPING IDENTIFICATION CODE DIRECTORY AND NAME PLATES SPECIFIED HEREIN HAVE BEEN APPROVED AND PROPERLY POSTED IN THE BUILDING AND FINAL CLEANING HAS BEEN

### DEMONSTRATION OF OPERATIONS:

WHEN THE INSTALLATION IS COMPLETE AND ADJUSTMENTS SPECIFIED HEREIN HAVE BEEN MADE, OPERATE THE SYSTEMS FOR A PERIOD OF ONE WEEK, DURING WHICH TIME DEMONSTRATE TO THE ARCHITECT THAT SYSTEMS ARE COMPLETED AND OPERATING IN CONFORMANCE WITH THESE SPECIFICATIONS.

### ALL PIPING WHICH IS NOT ISOLATED FROM CONTACT WITH THE BUILDING BY ITS INSULATION SHALL BE INSTALLED WITH A MANUFACTURED TYPE ISOLATOR. ACCEPTABLE

NO METALLIC PIPES SHALL HAVE METAL-TO-METAL CONTACT WITH HANGERS, CLAMPS BRACKETS OR ANY OTHER PIPE SUPPORT, OR BE OTHERWISE IN DIRECT CONTACT WITH

### JOB CONDITIONS: REPAIR OR REPLACE, AS DIRECTED BY ARCHITECT, MATERIALS AND PARTS OF PREMISES WHICH BECOME DAMAGED BECAUSE OF INSTALLATION OF WORK OF THIS

### CONCEAL ALL PIPING WITHIN FINISHED SPACES, UNLESS OTHERWISE NOTED. INSTALL ALL EXPOSED PIPING PARALLEL TO, OR AT RIGHT ANGLES WITH, BUILDING WALLS AND INSTALL

### ROUGH-IN WORK: PROCEED AS RAPIDLY AS THE CONSTRUCTION WILL PERMIT. WORK SHALL BE COMPLETED, TESTED AND APPROVED BEFORE BEING ENCLOSED.

### POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EMBEDS, BEAM CLAMPS, OR DRILLED FASTENERS WILL BE REQUIRED UNLESS OTHERWISE NOTED. SEISMIC BRACING SHALL BE REQUIRED FOR ALL PIPING, SEE SMACNA "SEISMIC RESTRAINT MANUAL:

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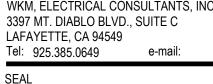
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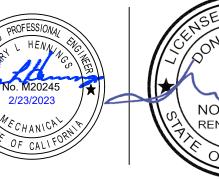
MECHANICAL ENGINEER H&M MECHANICAL GROUP 8517 EARHART RD., #230 OAKLAND, CA 94621

Tel: 510.569.2000 email: ELECTRICAL ENGINEER

WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549

e-mail: Tel: 925.385.0649







## PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

## PLUMBING SHEET **SPECIFICATIONS**

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### SHEET NOTES:

1 CONNECT TO NEAREST (E) 3/4"CW OR LARGER PIPING. TO BE FIELD VERIFIED.

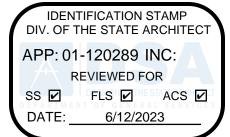
2 CONNECT (N) 3/4"CW TO WATERJET (E-23).

3 REROUTE (E) P-TRAP AND (E) PIPING UNDER ADA SINK BACK TO WALL AND RECONNECT TO (E) PIPING. TO BE FIELD VERIFIED.

4 CONNECT 3/4" COMPRESSED AIR LINE TO RELOCATED AIR COMPRESSOR WITH BRAIDED FLEX CONNECTOR. EXTEND UP TO UNDERSIDE OF ROOF AND EXTEND OVER EXISTING DUCT.

### **GENERAL NOTE:**

COMPRESSED AIR LINES: ROUTE LINES AS INDICATED JUST BELOW ROOF. CONNECT 1/2" LINE TO SHUT OFF VALVE. REFER TO DETAIL 3/A5.03



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## PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

## PLUMBING CONSTRUCTION PLAN & DETAIL

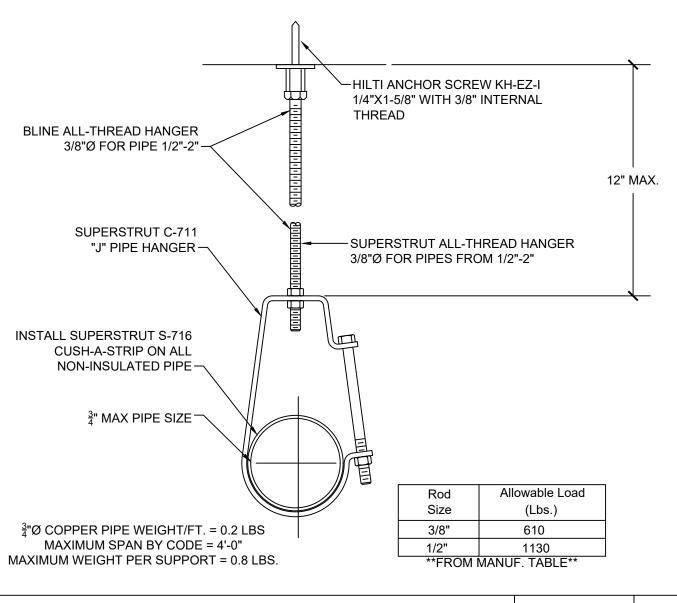
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SCALE:

NONE

# **PIPE SUPPORT**

- INSTALLATION 1 A. BUILDING: N B. INSPECTION SYSTEMS (WIT C. PUBLIC SAFE 2. PROVIDE EART
- 3. NFPA 13 (2022) EXTENDING TH DRAINS, FIRE [
- 4. NFPA 13 (2022) SYSTEM RISEF OVERHEAD SPI RECORD).
- 5. NFPA 13 (2022) SYSTEM WORK SHALL MAINTA INSPECTOR OF TESTING SO TI
- 6. NFPA 13 (2022) WRENCH AND TEMPERATURE SPRINKLERS ( MOUNT CABINE
- 7. NFPA 13 (2022) 8. NFPA 13 (2022) THE FOLLOWIN 1) LISTED SWAY 2) WRAPAROUN 3) NUMBER 12,
- PLANE AND 9. NFPA 72 CH. 5.7 RECORD TO CO ALARM WILL S AFTER INITIAL
- 10. NFPA 13 (2022) CONSIST OF A DETECTION AL AN ALARM.
- 11. NFPA 13 (2022) PROVIDED FOR BELL RINGS CA
- 12. NFPA 13 (2022) SHALL BE ATTA
- 13. NFPA 13 (2022) SIGN "CONTRA THIS FORM SH DSA RECORDS
- 14. NFPA 24 (2016) SIGN "CONTRA AND DISTRIBUT
- 15. NFPA 13 (2022) UNTIL THE SYS SHALL BE RECO (WITNESSED E EXTERIOR.
- 16. TITLE 19 ARTIC THE FIRE DEP WITH THE DAT LICENSE NUMB
- 17. CAUTION SIGNS CAUTION SIGN PROTECTION E USE AUXILIAR EQUIPMENT. C CLOSED".
- 18. NFPA 13 (2022) SYSTEMS SHAL AT LEAST 1 IN.
- 19. CBC (2022) CH. STATION FIRE AND RETRANS (WITNESSED B
- 20. CBC (2022) CH. ALARM AND TR AUTOMATICALI COMPANY.
- 21. THE INSPECTO HYDRAULICALL INCH WITH A SM EQUIVALENT F WITHIN THE SY

	R NOTES	GENERAL NOTES AND SPECIFICATIONS
HALL CONFORM TO THE FOL PA 13 (2022)	LOWING CODES.	1. ALL WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL CODES LAWS AND REGULATIONS
· · · · ·		<ol> <li>CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED UTILITY SERVICES, INSPECTIONS AND PERMITS.</li> </ol>
UAKE BRACING PER NFPA		3. DESIGN IS BASED ON DRAWINGS PROVIDED BY OWNER. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF A
OUGH WALLS, FLOOR, PLATE	BE PROVIDED AROUND ALL PIPING FORM AND FOUNDATION, INCLUDING AND OTHER AUXILIARY PIPING.	ALL MEASUREMENTS AND NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF A DISCREPANCY BETWEEN THE DRAWING AND THE ACTUAL SITE CONDITION OCCURS. STOP THE WORK THAT IS AFFECTED AND OBTAIN INSTRUCTION FROM THE OWNER'S REPRESENTATIVE BEFORE THE WORK CAN BE RESTARTED.
IALL BE COMPLETELY FLUS	MAINS AND LEAD-IN CONNECTIONS TO SHED BEFORE CONNECTION IS MADE TO TNESSED BY THE INSPECTOR OF	4. FURNISH AND INSTALL ALL MATERIAL, EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR A COMPLETE WORKABLE SYSTEM.
H. 6.10.2.2.1: ALL PIPING AND NG PRESSURE SHALL BE HYD THAT PRESSURE WITHOUT RECORD). LOCAL FIRE DEPAR NT THEY MAY OBSERVE TEST	O APPURTENANCES SUBJECTED TO DROSTATICALLY TESTED AT 200 PSI AND LOSS FOR 2 HOURS (WITNESSED BY THE RTMENT SHALL BE NOTIFIED OF DATE AND FING.	5. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND LOCATION OF PIPING AND EQUIPMENT. PIPE LENGTHS SHOWN ARE APPROXIMATE CENTER TO CENTER LENGTHS BETWEEN FITTINGS. CONTRACTOR SHALL DETERMINE THE ACTUAL MEASUREMENTS AND MAKE CHANGES AND DEVIATIONS SUCH AS OFFSETS IN PIPES THAT ARE NECESSARY TO MEET SITE CONDITIONS AND TO COORDINATE WORK WITH OTHER TRADES. ALL DEVIATIONS TO THE CONTRACT DOCUMENTS, WHETHER SHOWN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AT NO EXTRA EXPENSE
D FEWER THAN 6 SPARE SPR RATING IN EACH PROTECTED	PRINKLER HEAD CABINET, SPRINKLER RINKLER HEADS MATCHING THE TYPES AND D BUILDING FOR SYSTEMS LESS THAN 300 FOR SYSTEMS 300 TO 1000 SPRINKLERS). TEM RISER.	<ul> <li>TO THE OWNER.</li> <li>6. COORDINATE ALL CUTTING AND PATCHING WITH GENERAL CONTRACTOR. INDIVIDUA SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING TO THE WORK.</li> </ul>
H. 18.6.3: THE END SPRINKLE	ER ON A LINE SHALL BE RESTRAINED.	7. CONTRACTOR SHALL RESTORE ALL DAMAGE AND CLEAN THE PREMISES ON A DAILY BASIS.
:: BRACE ASSEMBLY ) U-HOOK SATISFYING THE R	AST 45 DEGREES FROM THE VERTICAL	<ol> <li>CONTRACTOR SHALL GUARANTEE THAT THE WORK DONE UNDER THIS SPECIFICATION WILL BE FREE FROM FAULTY MATERIALS OR WORKMANSHIP AND HEREBY AGREES, UPON RECEIVING NOTIFICATION FROM THE OWNER, AND TO OWNER'S ENTIRE SATISFACTION, TO CORRECT ALL DEFECTS, DAMAGES OR IMPERFECTIONS APPEARIN IN SAID WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FILING OF COMPLETION</li> </ol>
IFIRM THAT WHEN THE INSPI JND NO LESS THAN 20 SECO	I SHALL BE TESTED BY INSPECTOR OF ECTOR'S TEST VALVE IS ACTIVATED AN NDS AND NOT MORE THAN 90 SECONDS ING SHALL DISCHARGE TO EXTERIOR.	<ol> <li>USE ALL NEW MATERIALS. PIPE ARE SCHEDULE 10 FOR 2-1/2" AND LARGER, SCHEDUL 40 FOR 2" AND SMALLER. PIPING OUTSIDE THE BUILDING ARE GALV. STEEL.</li> <li>HANGERS ARE ADJUSTABLE RING TYPE OR STRAP.</li> </ol>
H. 16.11.3.1: THE ALARM APP STED ALARM CHECK VALVE	PARATUS FOR A WET PIPE SYSTEM SHALL OR OTHER LISTED WATERFLOW SSARY ATTACHMENTS REQUIRED TO GIVE	<ul> <li>10. TO PROVIDE ADEQUATE HEADROOM, THE SPRINKLER PIPING SHALL BE MAINTAINED AT HIGH AS POSSIBLE ABOVE THE FLOOR IN FINISHED AREAS.</li> <li>12. PROVIDE A LOCAL WATER-FLOW ALARM.</li> </ul>
UTSIDE ALARM BELL WHICH	IDENTIFICATION SIGNS SHALL BE H STATES: "SPRINKLER FIRE ALARM - WHEN	<ol> <li>PROVIDE A LOCAL WATER-FLOW ALARM.</li> <li>PROVIDE IDENTIFICATION SIGNS AS REQUIRED ON ALL FIRE DEPARTMENT CONNECTIONS, VALVES, PIPES, SPRINKLERS. ETC. INCLUDING "RISER ROOM" SIGN.</li> </ol>
911 / FIRE DEPARTMENT". GURE A.29.4: A PERMANENT IED TO EACH RISER.	HYDRAULIC DESIGN DATA PLACARD	14. ALL PIPE PENETRATIONS AT WALL AND FLOOR SHALL COMPLY WITH STRUCTURAL DESIGN AND CALIFORNIA BUILDING CODE. OBTAIN APPROVAL TO DRILL HOLES AT STRUCTURAL MEMBERS FROM STRUCTURAL ENGINEER BEFORE COMMENCEMENT O
GURE A29.1: SPRINKLER CO DR'S MATERIAL AND TEST (	NTRACTOR (C-16) SHALL COMPLETE AND CERTIFICATE FOR ABOVEGROUND PIPING". TOR OF RECORD WHO WILL TURN-IN FOR	WORK. 15. CONTRACTOR SHALL ENSURE THAT NO LIGHT FIXTURE, SOFFIT OR OTHER CEILING-MOUNTED OBJECT OBSTRUCTS DISCHARGE FROM SPRINKLERS.
GURE 10.10.1: SPRINKLER C	ONTRACTOR (C-16) SHALL COMPLETE AND CERTIFICATE FOR UNDERGROUND PIPING"	<ol> <li>ALL PIPES, FITTINGS AND VALVES SHALL BE PAINTED PER ARCHITECTURAL SPECIFICATIONS. SPRINKLERS SHALL BE FACTORY PAINTED.</li> <li>VERIFY OR PROVIDE FIRE ALARMS ACCEPTABLE TO FIRE DEPT. OBTAIN ALL REQUIRE</li> </ol>
EM PRESSURE STABILIZES. T RDED ON THE CONTRACTOR	VALVE SHALL BE OPEN AND REMAIN OPEN THE STATIC AND RESIDUAL PRESSURES I'S MATERIAL AND TEST CERTIFICATE AIN DRAIN SHALL DISCHARGE TO	<ul> <li>PERMITS PRIOR TO START OF CONSTRUCTION.</li> <li>18. PROVIDE CENTRAL ALARM SYSTEM MONITORED BY A CENTRAL ALARM COMPANY. TH MONITORED SYSTEM SHALL INCLUDE WATER FLOW INDICATORS AND TAMPER SWITCHES ON ALL CONTROL VALVES. EACH BUILDING SHALL BE PROVIDED THE CENTRAL ALARM SYSTEM INDIVIDUALLY. COORDINATE ENTIRE INSTALLATION WITH</li> </ul>
TMENT CONNECTION OR ON	LF ADHESIVE TYPE SHALL BE PLACED ON I THE RISER FOR FIRE SPRINKLER SYSTEM NSTALLATION WAS PERFORMED AND SERVICE WORK.	OWNER-SELECTED MONITORING CO. 19. PROVIDE OWNER WITH TWO (2) SETS OF AS-BUILT DRAWINGS AND TWO (2) BOUND SETS OF ALL OPERATING MANUALS, TESTING INSTRUCTIONS, DIAGRAMS, SERVICE CONTRACTS, GUARANTEES, ETC.
SHALL BE WORDED AS FOLLO QUIPMENT. DO NOT CLOSE UN VALVES WHEN NECESSARY T	L VALVES CONTROLLING SPRINKLERS. THE DWS: "THIS VALVE CONTROLS FIRE NTIL AFTER FIRE HAS BEEN EXTINGUISHED. TO SHUT OFF SUPPLY TO AUXILIARY IAY BE SOUNDED IF THIS VALVE IS	
BE DESIGNATED BY A SIGN	PARTMENT CONNECTION TO SPRINKLER HAVING RAISED OR ENGRAVED LETTERS ING READING SERVICE DESIGN.	
ARM SYSTEMS SHALL BE TE	COTECTED PREMISES AND SUPERVISING ESTED TO VERIFY PROPER IDENTIFICATION JTOMATIC FIRE EXTINGUISHING SYSTEMS.	
03.4: MAIN FIRE ALARM PANE UBLE SIGNALS SHALL BE DIS	EL VALVE MONITORING AND WATER FLOW STINCTLY DIFFERENT AND SHALL BE OVED CENTRAL STATION MONITORING	
REMOTE SYSTEM AREA. TH	HALL BE INSTALLED WITHIN THE MOST HE PIPE SIZE SHALL BE NO LESS THAT 1 ESISTANT ORIFICE, PROVIDING THE CE OF THE SPRINKLER TYPES INSTALLED	

SPRINKLER LEGEND											
SYMBOL     TYPE     RESPONSE     TEMP     K-FACTOR     ORIFICE     MANUFACTURER     MODEL     SIN     FINISH     REMARKS							REMARKS				
1	•	CONCEALED PENDENT	QUICK	155°F	5.6	1/2"	VIKING	MIRAGE	VK462	BRASS	W/ VIKING STANDARD COVER PLATE- POLISHED CHROME

### **SCOPE OF WORK**

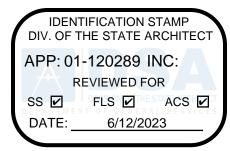
MODIFICATION OF EXISTING FIRE SPRINKLER SYSTEM IN FABRICATION WORKSHOP (AC130) WITH AN ADDITION OF NEW ROOMS (AC130A, AC130B, AC130C)

### SHEET INDEX

FP-1 FIRE PROTECTION NOTES & SYMBOLS FP-2 FIRE PROTECTION CONSTRUCTION PLAN

	ABBRE\	/IATIONS	
A.P.	ACCESS PANEL	MAX.	MAXIMUM
A.F.F.	ABOVE FINISHED FLOOR	MIN.	MINIMUM
A.F.G.	ABOVE FINISHED GRADE	N.I.C.	NOT IN CONTRACT
BEL.	BELOW	OS&Y	OUTSIDE SCREW & YOKE
B.O.D.	BOTTOM OF DECK	PIV	POST INDICATOR VALVE
B.O.R.	BOTTOM OF RISER	RN	RISER NIPPLE
CLG.	CEILING	S.A.D.	SEE ARCHITECTURAL DRAWINGS
DN.	DOWN	S.C.D.	SEE CIVIL DRAWINGS
DR	DROP NIPPLE	S.M.D.	SEE MECHANICAL DRAWINGS
DSA	DIVISION OF THE STATE ARCHITECT	S.P.D.	SEE PLUMBING DRAWINGS
DSP	DRY STAND PIPE	SSD	SEE STRUCTURAL DRAWINGS
(E)	EXISTING	S/W	SWITCH
FDC	FIRE DEPARTMENT CONNECTION	T.O.R.	TOP OF RISER
FIG.	FIGURE	TYP.	TYPICAL
FR.	FROM	U.G.	UNDERGROUND
HT.	HEIGHT	U.O.N.	UNLESS OTHERWISE NOTED
H.V.	HOSE VALVE	W/	WITH

SYMBOLS LEGEN	ND
PIPE HANGER	
END OF LINE SUPPORT	—— <u> </u>
BRANCH LINE SUPPORT	——————————————————————————————————————
2-WAY SWAY BRACE	$ \longrightarrow  $
4-WAY RISER SWAY BRACE	
FIRE ALARM BELL	$\bigcirc$
AUTOMATIC FIRE SPRINKLER RISER	•
PIPE RISERS	0
HYDRAULIC CALCULATION REFERENCE POINTS	$\langle \# \rangle$
INSPECTOR'S TEST VALVE	HO
PIPE CAP	[
FIRE PROTECTION <u>DIAMETER</u> PIPE: APPROXIMATE LENGTH	1-1/2" 12'-6"
FIRE SPRINKLER HEAD LOCATION	<b>-</b> −−12'−6"
SPRINKLER PIPE	
UNDERGROUND PIPE	
EXISTING PIPE	
DEMO HEAD	X
DEMO PIPE	xxxxxxx



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### ARCHITECT & PRIME CONSULTANT

CORRECTION AT THE CONTRACTOR'S EXPENSE.

DIALOG 681 4th STREET OAKLAND, CA, 94607 Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

### MECHANICAL ENGINEER H&M MECHANICAL GROUP 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 email:

ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3397 MT. DIABLO BLVD., SUITE C LAFAYETTE, CA 94549 e-mail: Tel: 925.385.0649





## PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

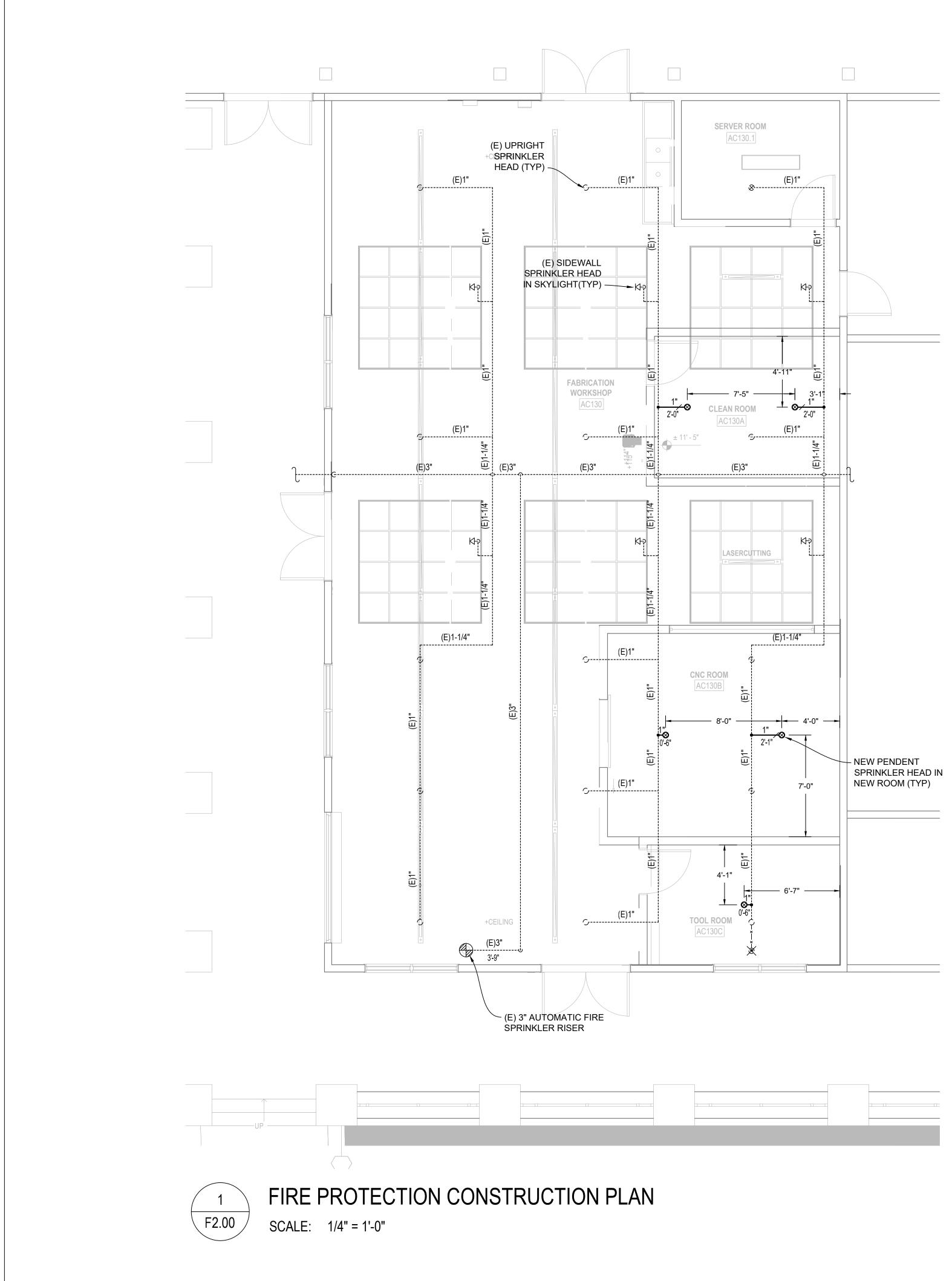
## FIRE PROTECTION NOTES AND SYMBOLS

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CA100024 - 2005082

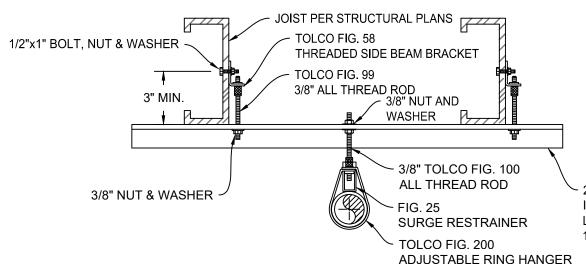


	SPRINKLER LEGEND										
	SYMBOL	TYPE	RESPONSE	TEMP	K-FACTOR	ORIFICE	MANUFACTURER	MODEL	SIN	FINISH	REMARKS
	1 🛞 🛞	PENDENT ON DROP NIPPLE	QUICK	155°F	5.6	1/2"	VIKING	MICROFAST MODEL M	VK302	CHROME	W/ VIKING MODEL F-1 ADJUSTABLE ESCUTCHEON
	· · ·										

ALL BRANCH LINE PIPE SIZES AND LENGTHS NOT INDICATED ON THE FLOOR PLANS ARE BASED ON THE TYPICAL BRANCH LINE PIPE SIZES AND LENGTHS AS INDICATED WITHIN THE SAME FLOOR OR COMPARTMENT.



### SIDE BEAM BRACKET BETWEEN JOIST



- 1. PROVIDE SPRINKLER GUARDS IN ALL AREAS OF LOW CEILINGS(<7FT), OR WHERE SUBJECT TO PHYSICAL EDUCATION ACTIVITIES.
- 2. DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. SHOULD IT BE NECESSARY TO DEVIATE FROM ARRANGEMENT OR LOCATION INDICATED IN ORDER TO MEET ARCHITECTURAL CONDITIONS OR SITE CONDITIONS, OR DUE TO INTERFERENCE WITH WORK IN OTHER DIVISIONS, SUCH DEVIATIONS AS OFFSETS, RISES, OR DROPS IN PIPING THAT MAY BE NECESSARY, WHETHER SHOWN OR NOT, SHALL BE MADE AT CONTRACTOR'S EXPENSE.

~ 2"x2"x3/8" ANGLE IRON x 4'-0" MAX LONG SIDE PER NFPA 13-9.1.1.7

SYMBOLS LEGEND
PIPE HANGER
END OF LINE SUPPORT
BRANCH LINE SUPPORT
2-WAY SWAY BRACE
4-WAY RISER SWAY BRACE
FIRE ALARM BELL
AUTOMATIC FIRE SPRINKLER
PIPE RISERS O
HYDRAULIC CALCULATION REFERENCE POINTS
INSPECTOR'S TEST VALVE
FIRE PROTECTIONDIAMETER APPROXIMATE1-1/2"PIPE:LENGTH12'-6"
FIRE SPRINKLER HEAD LOCATION
ABOVEGROUND PIPE CONCEALED
ABOVEGROUND PIPE EXPOSED
EXISTING PIPE
EXISTING PENDENT SPRINKLER HEAD TO BE DEMO

~	^ W Z / E < > "
X	EXISTING PENDENT SPRINKLER HEAD TO BE DEMO
8	EXISTING PENDENT SPRINKLER HEAD TO REMAIN
0	EXISTING UPRIGHT SPRINKLER HEAD TO REMAIN
K-	EXISTING SIDE WALL SPRINKLER HEAD TO REMAIN

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 01-120289 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗹 DATE: 6/12/2023

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# ARCHITECT & PRIME CONSULTANT DIALOG 681 4th STREET OAKLAND, CA, 94607

Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

MECHANICAL ENGINEER H&M MECHANICAL GROUP 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 email:

ELECTRICAL ENGINEER WKM, ELECTRICAL CONSULTANTS, INC. 3597 MT. DIABLO BL<del>VD.</del>, SUITE C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:





# PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

## FIRE PROTECTION CONSTRUCTION PLAN

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# GENERAL DEMOLITION NOTES

- 1 NO ACCURATE AS BUILT DRAWINGS AVAILABLE. THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM THE RECORD DRAWINGS AND SURVEY WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOBSITE AND VERIFY EXACT EXISTING CONDITIONS BEFORE SUBMITTING THE BID. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE TIME SPENT IN VERIFYING THE EXISTING ELECTRICAL SYSTEM.
- 2 CONTRACTOR SHALL VERIFY IN FIELD ALL EXISTING CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS AND PROVIDE ALL REQUIRED CONDUITS, CONDUCTORS, BOXES, SUPPORTS AND HARDWARE TO FOLLOW AND CONFORM WITH THIS DESIGN.
- 3 CONTRACTOR TO BE RESPONSIBLE TO KEEP ALL EXISTING SYSTEMS (SHOWN AND NOT SHOWN) THAT ARE TO REMAIN IN OPERATION AT ALL TIMES AND TO RESTORE TO ITS ORIGINAL CONDITION WHENEVER AFFECTED BY THIS WORK.
- (4) WHERE ANY EXISTING SYSTEMS ARE IMPACTED BY THIS REMODELED WORK, CONTRACTOR SHALL SYSTEMATICALLY TEST STATUS OF EXISTING INSTALLATION IN THE PRESENCE OF THE OWNER'S REP. IT IS ASSUMED THAT ALL EXISTING INSTALLATIONS ARE IN GOOD WORKING ORDER. CONTRACTOR SHALL REPLACE AND RESTORE ALL SYSTEMS TO MAINTAIN OPERATION AT ALL TIMES.
- 5 CONTRACTOR TO PLUG/SEAL OFF ANY AND/OR REPAIR ANY DAMAGED INSTALLATION IMPACTED BY THIS REMODELED WORK, REMOVE ALL UN-USED RACEWAYS AND CONDUCTORS AND LEAVE AREA CLEAN.
- 6 SOME EXISTING FLUORESCENT LIGHT FIXTURES HAVE HAZARDOUS PCB-CONTAINING BALLASTS. HANDLE BALLASTS AND LIGHT TUBES (WHICH CONTAIN MERCURY) WITH CARE.

		F	IXTURE	SCHEDULE		
ТҮРЕ	MANUFACTURER AND CATALOG NUMBER	LAMP QUANTITY AND TYPE	WATTAGE AND VOLTAGE	DESCRIPTION	WEIGHT	REMARKS
А	PMC LIGHTING ES46-D/I-AC-50K-085-4-B-BWW-DC- WHT-UNV-90C	LED 5000K	20.4W UNV	4-INCH APPERTURE DIRECT/INDIRECT PENDANT MOUNTED LED LUMINARE FOR OPEN CEILING WITH BATWING WIDE DIFFUSER, EXTRUDED ALUMINUM HOUSING. PROVIDE 0-10V DIMMING DRIVE.	18 LBS	
AE	PMC LIGHTING ES46-D/I-AC-50K-085-4-B-BWW-DC- WHT-UNV-EM-90C	LED 5000K	20.4W UNV	4-INCH APPERTURE DIRECT/INDIRECT PENDANT MOUNTED LED LUMINARE FOR OPEN CEILING WITH BATWING WIDE DIFFUSER, EXTRUDED ALUMINUM HOUSING. PROVIDE 0-10V DIMMING DRIVE. PROVIDE 90-MINUTE EMERGENCY BATTERY PACK	20 LBS	
в	FAIL-SAFE LIGHTING BAA-FLD6BXOR-30-D010-IEMBOD- FEU6B-3/5-80-50-F6LBXSOR-M-1-MW- E-BTR89BV	LED 5000K	27.6W UNV	8-INCH DIAMETER RECESSED MOUINTED LED DOWNLIGHT WITH ALUMINUM HOUSING AND SELF-FLANGED REFELECTOR. PROVIDE 0-10V DIMMING DRIVER. SUITABLE FOR CLEAN ROOM.	12 LBS	
CE	WILLIAMS LIGHTING PTS-24-L61-50-RA-EM/10W-DIM-120	LED 5000K	48.5W UNV	2' X 4' SURFACE MOUNTED SHALLOW LED FIXTURE FOR HARD CEILING WITH DIE-FORMED HOUSING, DIFFUSED RIBBED ACRYLICS LENS, 0-10V DIMMING DRIVER AND 90-MINUTE EMERGENCY BATTERY PACK	16 LBS	
D	FAIL-SAFE LIGHTING BAA-FSP-14-30HE-50-CP125	LED 5000K	38.3W UNV	1' X 4' SURFACE LED FLAT PANEL FIXTURE WITH EXTRUDED ALUMINUM FRAME, FROST LENS CLEAR POLYCARNONATE LENS, 0 10V DIMMING DRIVER	12 LBS	
DE	FAIL-SAFE LIGHTING BAA-FSP-14-30HE-50-CP125-EL14W	LED 5000K	38.3W UNV	SAME AS TYPE 'D' EXCEPT WITH 90-MINUTE BATTERY PACK AND REMOTE SWITCH	18 LBS	
Е	EXITRONIX LIGHTING ILX-G-EM-WH		4 WATTS 120V	WALL MOUNTED LED EXIT SIGN UNIVERSAL MOUNTING WITH MAINTENANCE-FREE BATTERY PACK	8 LBS	

## GENERAL ELECTRICAL NOTES

- 1. ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE PLANS.
- 2. MOUNTING HEIGHTS SHALL BE A MAXIMUM +48" TO TOP OF BOX OR MINIMUM 15" TO BOTTOM OF BOX ABOVE THE FLOOR PER CBC 11B-308. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS.
- 3. RECEPTACLE OUTLETS ON BRANCH CIRCUITS 30 AMPS OR LESS ARE TO BE INSTALLED AT A MAXIMUM OF 48" (TO THE TOP OF BOX) AND A MINIMUM OF 15" (TO THE BOTTOM OF THE BOX) ABOVE THE FLOOR PER CBC 11B-308.
- 4. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND.
- 5. PROVIDE GREEN THWN COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL BRANCH CIRCUITS.
- 6. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF EQUIPMENT PRIOR TO TURN OVER TO THE OWNER.
- 7. ALL NEW AND EXISTING PANELBOARDS AND SWITCHBOARDS SHALL BE PROVIDED WITH NEW TYPEWRITTEN DIRECTORIES TO IDENTIFY THE LOCATION OF EACH LOAD SERVED.
- 8. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED).
- 9. CONTRACTOR TO COORDINATE ALL NEW WORK WITH ALL OTHER TRADES FOR A SMOOTH FLOW OF INSTALLATION WORK.
- 10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND CEILINGS INCURRED DURING ELECTRICAL CONSTRUCTION. IF DAMAGE OCCURS DURING ELECTRICAL CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS.
- 11. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS.
- 12. COORDINATE ELECTRICAL OUTLET LOCATIONS WITH ARCHITECTURAL ELEVATIONS (I.E. CABINETRY). AVOID ALL COUNTER SUPPORTS, AND LOCATIONS BEHIND INACCESSIBLE FIXED CABINETS.
- 13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
- 14. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL.
- 15. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, MOTOR SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS.
- 16. RECEPTACLES SHALL NOT BE INSTALLED BACK TO BACK AND SHALL BE SPACED 24" APART. WHERE RECEPTACLES CANNOT BE SPACED 24" APART, PROVIDE 3M FIRE RATED PUTTY PADS TO MATCH WALL FIRE RATING.
- 17. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF 48" TO TOP OF BOX FROM THE FINISHED FLOOR.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE LENGTHS.
   ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL).
- 20. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP ELECTRICAL ROOMS EXCLUSIVELY DEDICATED TO PANELBOARDS, SIGNAL AND OTHER ELECTRICAL EQUIPMENT. NO PLUMBING, PIPING OR MECHANICAL DUCTS SHALL RUN OVER ELECTRICAL PANEL OR OTHER ELECTRICAL EQUIPMENT PER C.E.C. 110-26(f).
- 21. ALL SWITCHES AND RECEPTACLES SHALL BE PROVIDED WITH 'BROTHER' LABELING SYSTEM TO IDENTIFY THE PANEL AND CIRCUIT NUMBER OF EACH OUTLET. COLOR TO BE 3/8" HIGH BLACK ON TRANSPARENT TAPE.
- 22. ALL CABINETS, DISCONNECT SWITCHES, PULLBOXES, AND TERMINAL BOXES SHALL BE PROVIDED WITH LABELING SYSTEM TO IDENTIFY THE PANEL AND ITS USE. SEE SPECIFICATIONS FOR REQUIREMENTS.
- 23. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE PROJECT MANUAL.
- 24. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES THEM. THE CONTRACTOR SHALL VERIFY WITH ARCHITECT/VENDORS AND COORDINATE ALL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
- 25. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION.
- 26. UNLESS OTHERWISE APPROVED BY THE ARCHITECT, ALL INTERIOR WIRING RUN EXPOSED SHALL BE WIREMOLD 2300 SERIES COMPLETE WITH ALL FITTINGS AND ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS.
- 27. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL, U.O.N. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT.
- 28. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- 29. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.5OE.
- 30. PROVIDE EXPANSION FITTINGS AND/OR CONDUIT FLEX TO CONDUITS PASSING THROUGH STRUCTURAL EXPANSION JOINT SYSTEM. VERIFY/COORDINATE WITH ARCHITECT FOR LOCATION.
- 31. ALL RACEWAY PASSING THROUGH EXPANSION JOINT AREA SHALL BE PROVIDED WITH EXPANSION JOINT FITTINGS AND/OR FLEX CONDUIT AS REQUIRED.
- 32. ALL LIGHT FIXTURES WITH EMERGENCY BATTERY PACK SHALL BE PROVIDED WITH UNSWITCHED HOT FOR BATTERY CHARGING.
- 33. ALL EXTERIOR MOUNTED GFI RECEPTACLE OUTLETS TO BE PROVIDED WITH LOCKABLE COVERS, TAYMAC MX3200.
- 34. FOR POWER AND LIGHTING CIRCUITS, CONTRACTOR SHALL PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT IN THE RACEWAY OR PROVIDE BREAKER TIES TO MEET NEC CODE 210.4.
- 35. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION.
- 36. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECTURAL DRAWINGS ALL LOCATIONS AND DIMENSIONS OF DEVICES/EQUIPMENT PRIOR TO ROUGH-IN.
- 37. ALL EXIT SIGNS SHALL COMPLY WITH SECTIONS 1013 OF THE C.B.C.
- 38. ALL DIVISION 15 EQUIPMENT LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 25 U.O.N. PROVIDE CONDUIT WHERE REQUIRED BY DIV 25.
- 39. COORDINATE INSTALLATION OF ALL RECESSED LIGHT FIXTURES WITH DIVISION 15 PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF FIXTURES THAT THERE IS NO CONTACT BETWEEN DUCTS AND FIXTURES TO AVOID VIBRATION IN FIXTURES.
- 40. ALL CONDUIT STUB OUTS AND CONDUITS TERMINATING TO A J-BOX, CABINET, AND THE LIKE SHALL BE PROVIDED WITH INSULATED THROAT. BOX OR CABINET COVER SHALL BE LABELED AS TO USE.

41. <u>MEP COMPONENT ANCHORAGE NOTES</u>:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
   TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

MP MD PP EX - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP MD PP E - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13, 0052-13, 0063-13.

# ELECTRICAL SYMBOL LIST

NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES

••	LIGHT FIXTURE - SEE FIXTURE SCHEDULE
♀ <b>───</b>	EMERGENCY LIGHT FIXTURE WITH BATTERY PACK - SEE FIXTURE SCHEDUL
Ø	DOWNLIGHT LIGHT FIXTURE - SEE FIXTURE SCHEDULE
ç 🗖	WALL MOUNTED LIGHT FIXTURE - SEE FIXTURE SCHEDULE
<u>i</u> N N	EXIT SIGN - WALL OR CEILING MOUNT WITH DIRECTIONAL ARROWS WHERE INDICATED; SEE FIXTURE SCHEDULE
	EMERGENCY LIGHT FIXTURE WITH 90-MINUTE BATTERY BACKUP. CONNECT TO NEAREST UN-SWITCHED HOT LIGHT CIRCUIT
RC	CEILING MOUNTED DIMMING ROOM DRIVER
<b>O</b> S	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR
	CEILING MOUNTED DAYLIGHTING CONTROL
D	WALL MOUNTED DIMMER SWITCH
R	VOICE DATA OUTLET COMPLATE WITH 1 1/4" CONDUIT AND CABLING TO IDF
FS	FLOW SWITCH
TS	TAMPER SWITCH
SD	FIRE ALARM SMOKE DETECTOR
M	FIRE ALARM SPEAKER/STROBE, CANDELA AS NOTED
Þ	20A, 125V DUPLEX GFI RECEPTACLE, +18" CL U.O.N.
€	20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, +18" U.O.N.
Ю	SPECIAL OUTLET, PER EQUIPMENT REQUIREMENTS, GROUNDING TYPE
$\odot$	20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE IN FLOOR BOX
<b>∂</b> + <b>∂</b>	JUNCTION BOX, CEILING OR WALL MOUNTED - SIZED PER CODE
WP L	FUSED DISCONNECT SWITCH WITH NEMA 4X STAINLESS STEEL ENCLOSUF SIZED PER MANUFACTURER'S REQUIREMENTS; WP - WEATHERPROOF
N	MOTOR CONNECTION
$\mathbf{S}^{T}$	THERMAL OVERLOAD SWITCH
	EXISTING CONDUIT
	BRANCH CIRCUIT CONDUIT CONCEALED IN WALL OR CEILING
	BRANCH CIRCUIT CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUP
	HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT MANUAL MOTOR STARTING SWITCH, HORSE POWER RATED WITH OVERL
	STUB CONDUIT TO ACCESSIBLE SPACE
0	EQUIPMENT CONNECTION
ο	CONDUIT UP
•	CONDUIT DOWN
	ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM $3/4$ "C - 2#12, 1#12 GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER #12 WIRES: ( — HH— = $3/4$ "C - $3$ #12, 1#12G) ETC. FOR WIRE SIZES OTHER THAN #12: ( — HH— = $3$ #8, 1#12G), (GROUND SIZED PER CEC, CODE SIZE CONDUIT) ETC.
(D)	EXISTING TO BE REMOVED
(E)	EXISTING
(N)	NEW
(RR)	REMOVE AND RELOCATE
(RL)	RELOCATED
GFI	GROUND FAULT INTERRUPTER
IDF	INTERMEDIATE DISTRIBUTION FRAME
WP	WEATHERPROOF
U.O.N.	UNLESS OTHERWISE NOTED
$\langle 1 \rangle$	DEMOLITION NOTE
$\langle 1 \rangle$	NUMBERED ELECTRICAL NOTE
	MECHANICAL TAG - LETTER DENOTES TYPE, NUMBER DENOTES EQUIPMENT NUMBER
$\left(\begin{array}{c} A\\ \hline 25\end{array}\right)$	FIXTURE TAG - LETTER DENOTES TYPE, NUMBERS INDICATE LAMP WATTAGE



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITED

SYMBOLS, NOTES AND SCHEDULES DRAWN: DM CHECKED: JWE PLOT DATE: 1/12/2023 4:32 PM

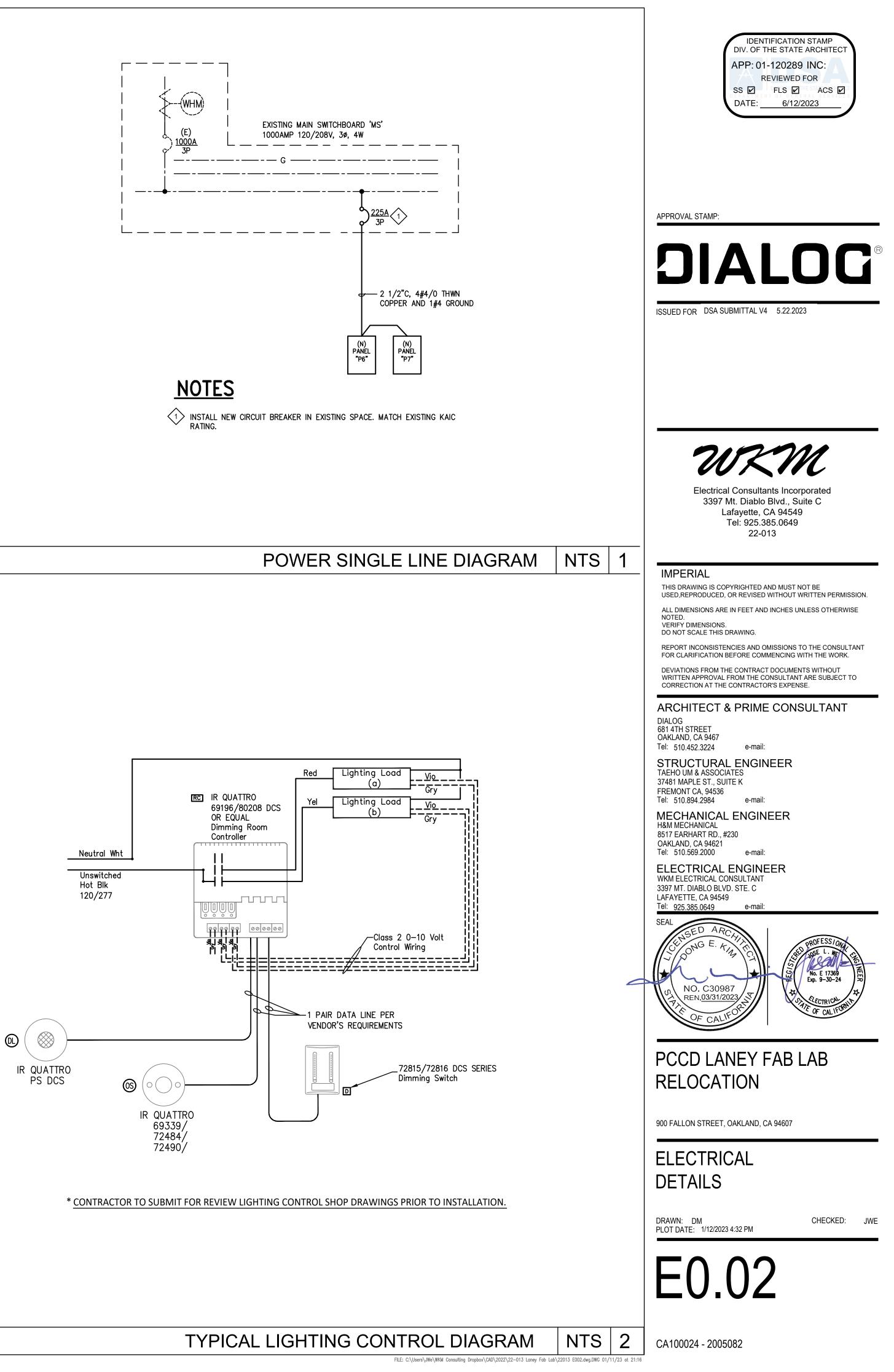
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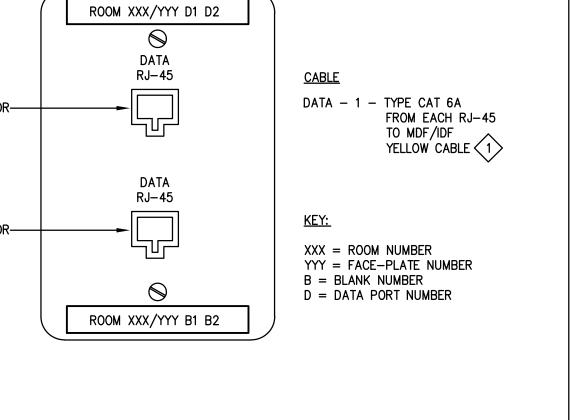
PANEL P6								SEC	TIO	N 1	FAB LAB			
DESCRIPTION		LOAD	(KVA)							LOAD (KVA)				DESCRIPTION
DESCRIPTION	LTG.	REC.	RES.	MOT.	CB	CKT	SN	CKT	CB	LTG.	REC.	RES.	MOT.	DESCRIPTION
EQPT #E1.2 CNC TABLE VACUUM PUMP					20/1	1	*	2	20/2			1.50		EQPT # E22 THERMOFORM FORMECH
EQPT #E1.3 CNC TABLE CONTROL BOX					20/1	3	*	4	20/2			1.50		
EQPT #E2 UV PRINTER ROLAND LEF2			0.20		20/1	5	,	6	30/2			2.00		EQPT #E23 WATERJET- PHOTOMAX
EQPT #E3 3D PRINTER ULTIMAKER			0.40		20/1	7	*	8	00/2			2.00		
EQPT #E4 3D PRINTER FORM 2			0.10		20/1	9	*	10	20/1		1.00			EQPT #E29 SPINDLE SANDER - GRIZZLY
EQPT #E5 3D PRINTER MOJO			0.90		20/1	11	,	12	20/1		1.00			EQPT #E30 ROUTER FESTOOL MFK700
EQPT #E6 3D PRINTER ACC. WAVEWASH			1.20		20/1	13	*	14	20/1		0.90			EQPT #E31 SCROLL SAW PROXXON
EQPT #E7 3D PRINTER					20/1	15	*	16	20/1		0.85			EQPT #E32 DRILL PRESS
EQPT #E8 3D PRINTER FUSE 1			0.90		20/1	17	,	18	20/1		0.90			EQPT #E33 BAND SAW ROCKWELL 14
EQPT #E9 VINYL CUTTER CAMM-1 GS24			0.30		20/1	19	*	20	20/1		0.90			EQPT #E34 SLIDE MITER SAW BOSCH
EQPT #E16 COMPUTER					20/1	21	*	22	20/1		1.00			EQPT #E37 TABLE SAW SAWTOP
EQPT #E18 CNC DESKTOP POCKET NC					20/1	23	,	24	20/1		1.00			EQPT # E38 BELT SANDER DAYTON 2PA29
EQPT #E19 MILL DESKTOP ROLAND			0.30		20/1	25	*	26	20/1					SPARE
EQPT #E20 LASER CUTTER UNIVERSAL					20/2	27	*	28	20/1		0.80			EQPT #E40 PROJECTOR
					2012	29	,	30	30/2			2.00		FOPT # F47 PORTABLE CABINET SAW
EQPT #E21 LASER CUTTER EPILOG			1.20		20/1	31	*	32	00/2			2.00		
EQPT # E8.1 3D PRINTER FUSE SHIFT			1.00		20/1	33	*	34	20/1					SPARE
SPARE			1.00		20/1	35		36	20/1					SPARE
						37	*	38						
EQPT # E1 SHOPBOT SPINDLE				4.00	30/3	39	*	40	50/3				15.00	EQPT #41 SUPER MINI MILL HAAS 15 HP
						41	,	42						
TOTAL			7.50	4.00							8.35	5.50	15.00	
VOLTS: 120/208V,3ø,4W MTG:	SURFA	CE												
BUS: 225A TYPE:	NQOD		-						CONN	ECTED	KVA:	40	.35	
MAIN: 225A MAIN BREAKER KAIC:	22		-						CONN	ECTED	AMPS:	112	08	-

	PANEL P6										SEC	TIO	N 2	FAB LAB	
DESCRIPTION		-	(KVA)								LOAD	(KVA)		DESCRIPTION	
DESCRIPTION	LTG.	REC.	RES.	MOT.	CB	CKT	SN	CKT	CB	LTG.	REC.	RES.	MOT.	DESCRIPTION	
EQPT #E36 CORD REEL		0.60			20/1	43	*	44	40/2			6.00		EQPT #42 WELDER	
EQPT #E36 CORD REEL		0.60			20/1	45	*	46	10/2			0.00			
EQPT #E36 CORD REEL		0.60			20/1	47	*	48	30/2					SPARE	
EQPT #E36 CORD REEL		0.60			20/1	49	*	50	00/2						
EQPT #E36 CORD REEL		0.60			20/1	51	*	52	30/2			2.00		EQPT #39 AIR COMPRESSOR	
EQPT #E36 CORD REEL		0.60			20/1	53	*	54							
EQPT #E36 CORD REEL		0.60			20/1	55	*	56	20/1			1.00		EQPT #39.1 AIR COMPRESSOR	
SPARE					20/1	57	*	58	20/1			0.80		EQPT #26 AIR FILTER IN CEILING	
EQPT #E10 HEAT PRESS			1.20		20/1	59		60	20/1			0.80		EQPT #26 AIR FILTER IN CEILING	
EQPT #E43 BAND SAW			1.20		20/1	61	*	62	20/1			0.80		EQPT #26 AIR FILTER IN CEILING	
EQPT #E38 BELT SANDER			1.00		20/1	63	*	64	20/1		0.80			RECEPT - FAB LAB (SERVER ROOM	
EQPT #E33 BAND SAW			1.00		20/1	65	*	66	20/1		0.80			RECEPT - FAB LAB	
EQPT #E47 PORTABLE CABINET SAW			1.00		20/1	67	*	68	20/1		0.80			RECEPT - FAB LAB	
EQPT # E45 DOWN DRAFT TABLE			2.00		20/2	69	*	70	20/1					SPARE	
EQFT # E45 DOWN DRAFTTABLE			2.00		20/2	71	*	72	30/2					SPARE	
SPARE					20/1	73	*	74	30/2					SFARE	
SPARE					20/1	75	*	76	20/1					SPARE	
EQPT #E8.2 3D PRINTER FUSE 1 VACUUM					20/1	77		78	20/1					SPARE	
						79	*	80							
SPARE				1	30/3	81	*	82	50/3						
				1		83	*	84	1						
TOTAL		4.20	7.40								2.40	11.40			
/OLTS: 120/208V,3ø,4W MTG:	SURFA	ACE													
BUS: 225A TYPE:	NQOD		-	SEC	TION 1	KVA:	40	35		TOTA	L KVA:	65	.75		
MAIN: MLO KAIC:			-						CONN		AMPS:	183	2.64	-	

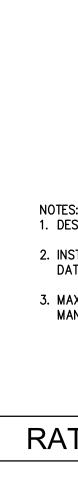
YELLOW COLOR-

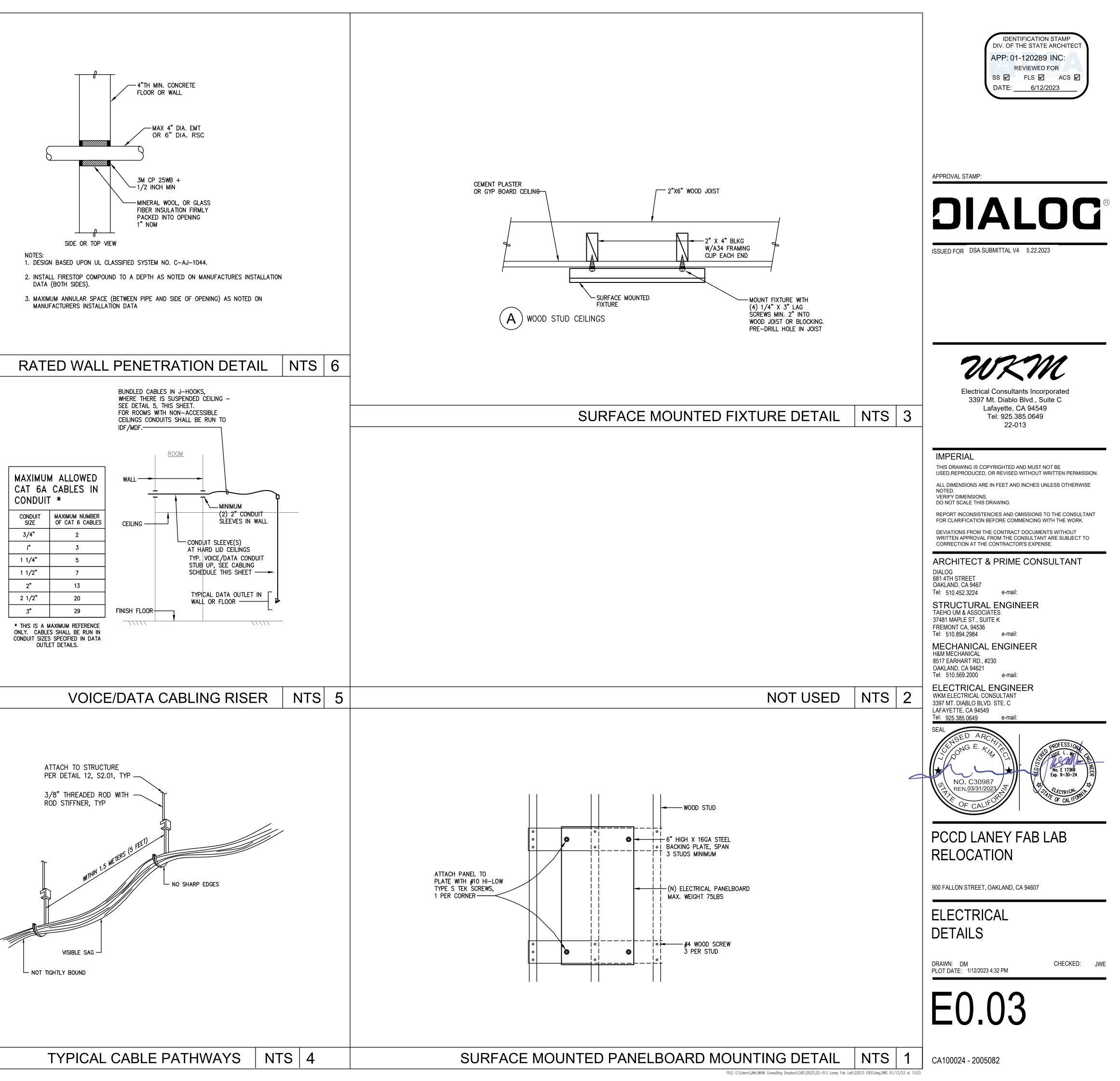
YELLOW COLOR-

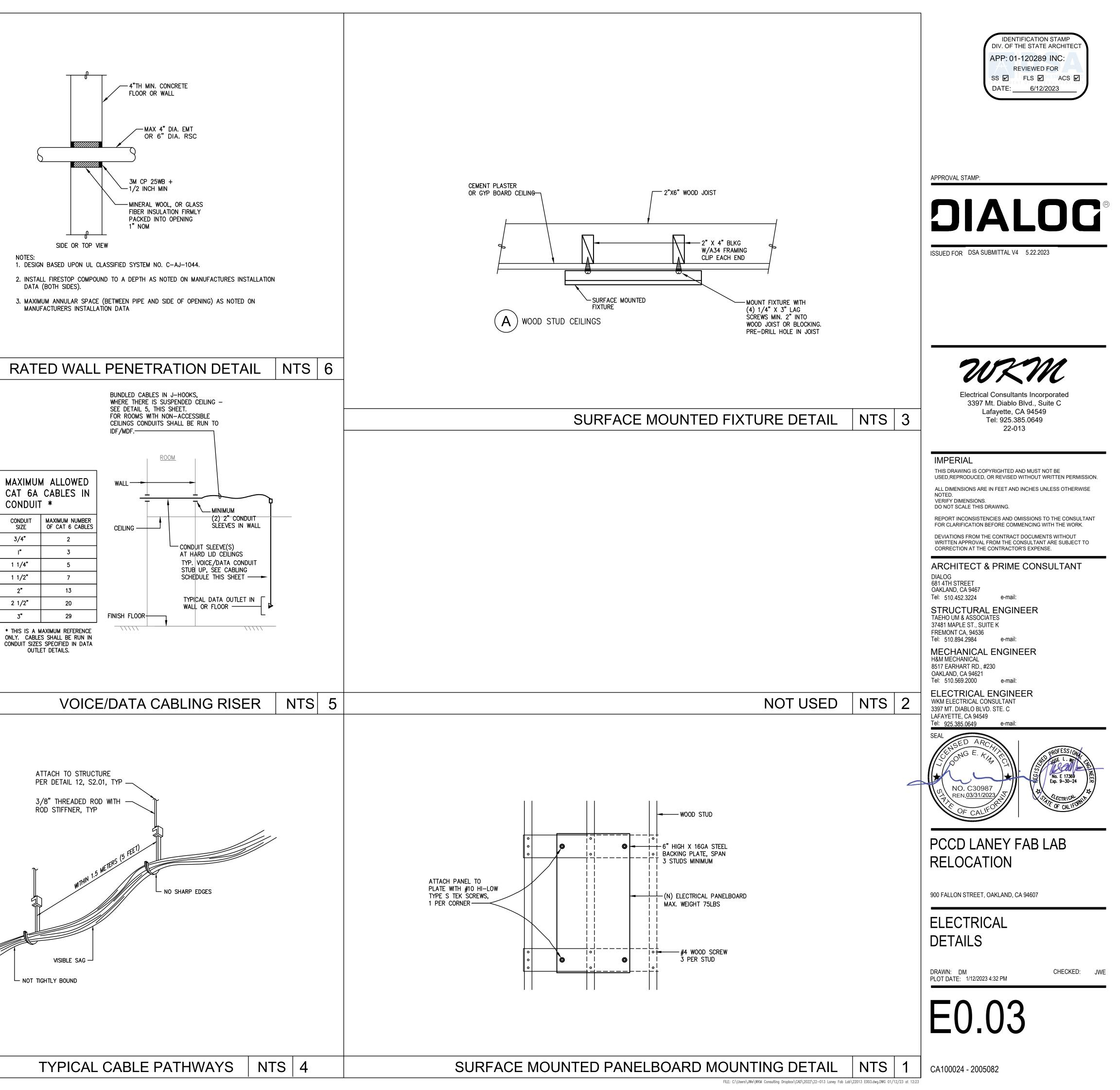


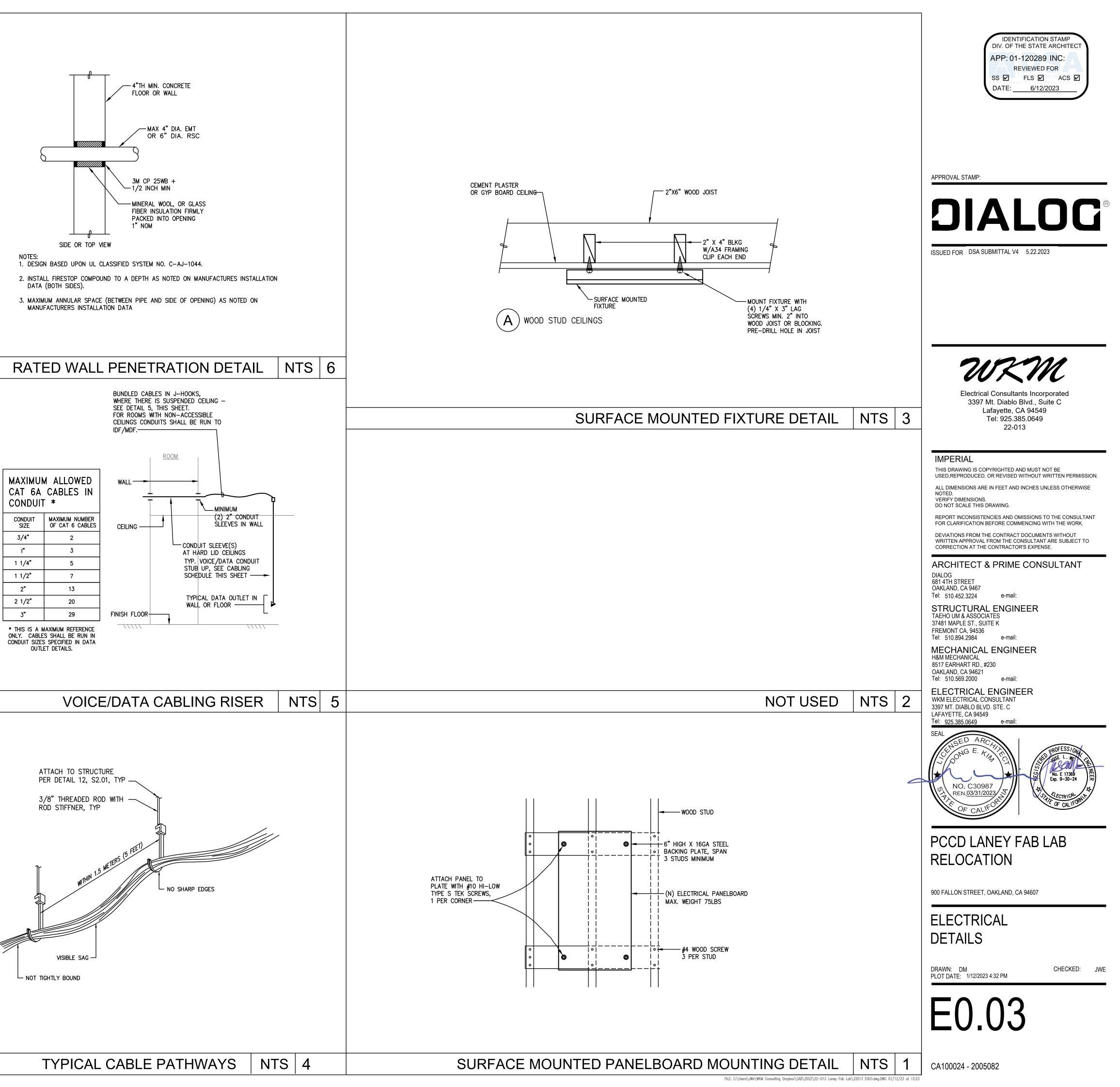


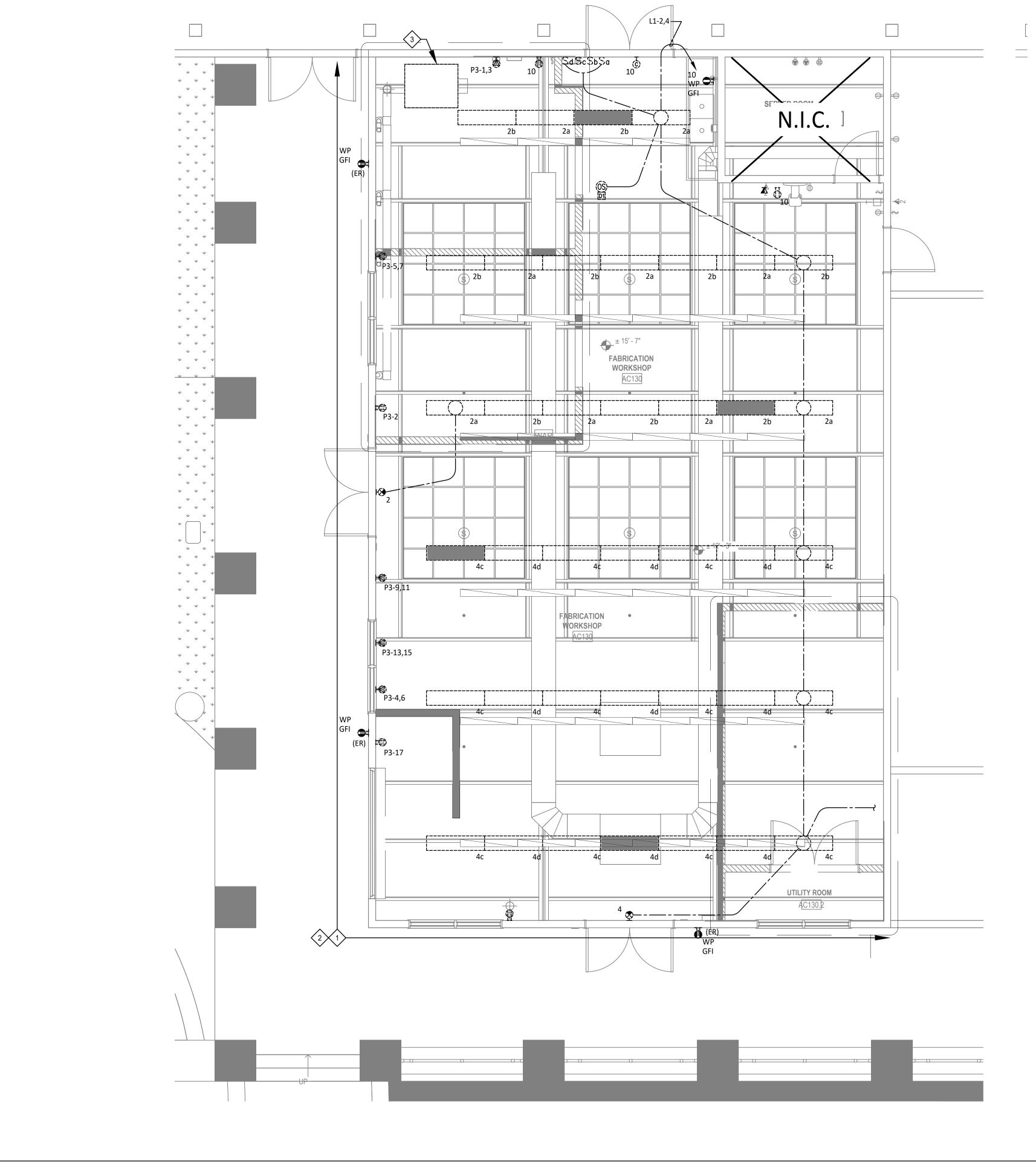
TYPICAL VOICE/DATA OUTLET | NTS | 3





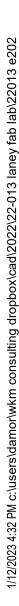


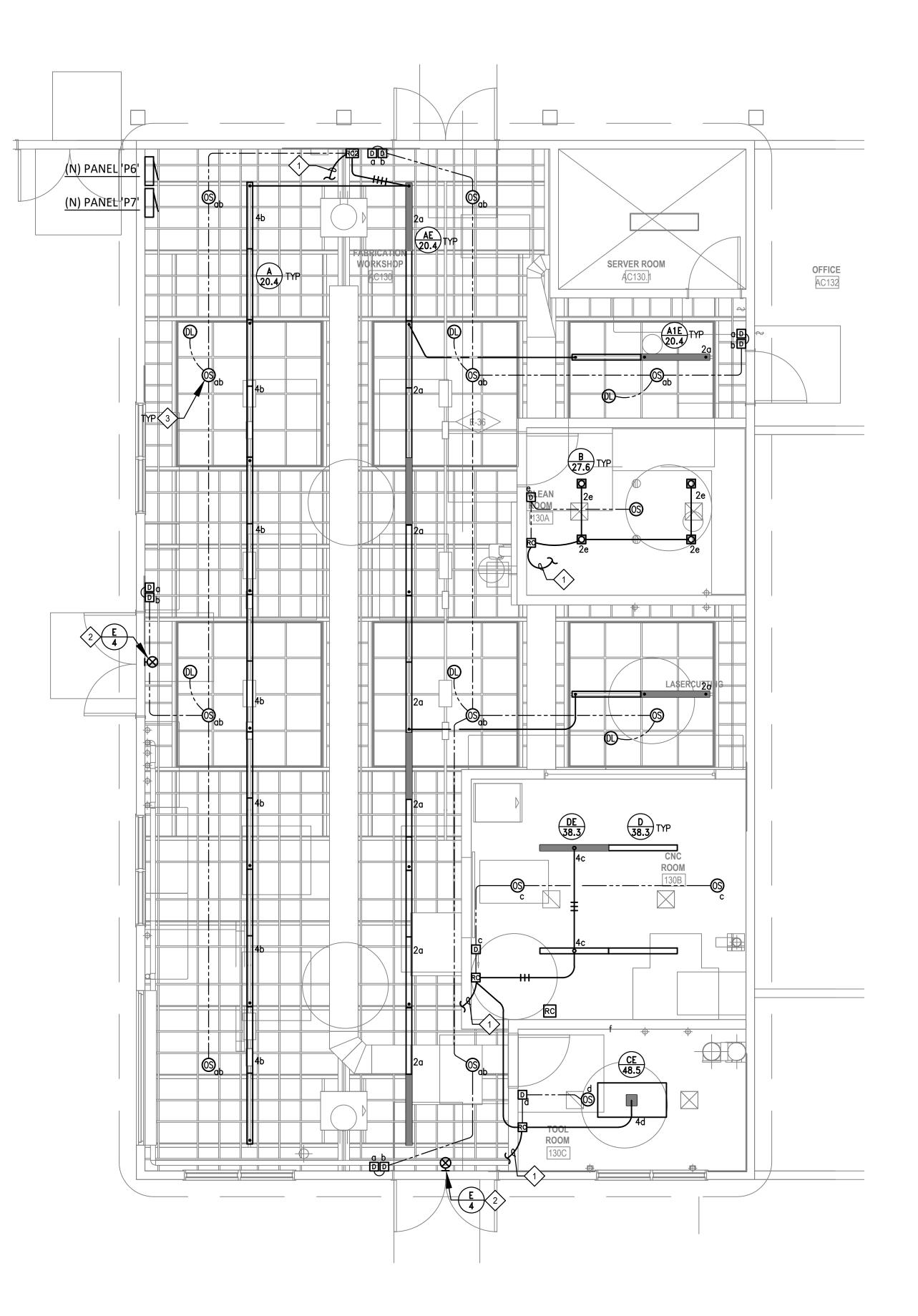




SHEET NOTES	
EXISTING AREA TO BE RENOVATED. UNLESS OTHERWISE NOTED, REMOVE ALL LIGHT FIXTURE SHOWN INCLUDING ALL ASSOCIATED SWITCHES, CONTROLS, RACEWAY, SUPPORTS, HARDWARE, AND WIRING TO THE CONNECTION POINT. PLUG OFF ALL OPENING AND BOXES NOT TO BE RE-USED AND LEAVE AREA CLEAN. SAVE AND RE-USE EXISTING LIGHT CIRCUIT IN NEW WORK.	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120289 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE:6/12/2023
UNLESS OTHERWISE NOTED, ALL ITEMS RELATED TO THE POWER AND SIGNAL SYSTEMS IN THE REMODELED TO BE REMOVED INCLUDING ALL ASSOCIATED RECEPTACLE DEVICES, DISCONECT SWITCHES, OUTLET BOXES, RACEWAY, SUPPORTS, HARDWARE, AND WIRING TO THE PANEL. LEAVE AREA CLEAN.	
<ul> <li>EXISTING DUST COLLECTOR UNIT TO BE REMOVED AND RELOCATED.</li> <li>DISCONNECT AND EXTEND EXISTING CIRCUIT WIRING TO NEW LOCATION SHOWN IN NEW WORK. MATCH EXISTING CONDUIT AND CONDUCTORS.</li> </ul>	APPROVAL STAMP:
	DIALOG
	ISSUED FOR DSA SUBMITTAL V4 5.22.2023
	WKM
	Electrical Consultants Incorporated 3397 Mt. Diablo Blvd., Suite C Lafayette, CA 94549 Tel: 925.385.0649 22-013
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	REPORT INCONSISTENCIES AND OMISSIONS TO THE CONSULTANT FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK. DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE.
	ARCHITECT & PRIME CONSULTANT DIALOG 681 4TH STREET OAKLAND, CA 9467
	Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536
	Tel: 510.894.2984 e-mail: MECHANICAL ENGINEER H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621
	Tel: 510.569.2000 e-mail: ELECTRICAL ENGINEER WKM ELECTRICAL CONSULTANT 3397 MT. DIABLO BLVD. STE. C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:
	SEAL SEAL CHNSED ARCHIER ONG E. 412 FC NO. E 17369 Exp. 9-30-24 SALLIFORNIT OF CALLIFORNIT
	PCCD LANEY FAB LAB RELOCATION
	900 FALLON STREET, OAKLAND, CA 94607
	FABRICATION LAB DEMOLITION PLAN
	DRAWN: DM CHECKED: JV PLOT DATE: 1/12/2023 4:32 PM
	E2.01
FILE: C:\Users\JWe\WKM Consulting Dropbox\CAD\2022\22-013 Laney Fab Lab\22013 E201.dwg.DWG 08/02/22 at 23:20	CA100024 - 2005082







# GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120289 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: <u>6/12/2023</u>

APPROVAL STAMP:



ISSUED FOR DSA SUBMITTAL V4 5.22.2023

# SHEET NOTES

CONNECT COMPLETE TO EXISTING LIGHT CIRCUIT SAVED IN DEMOLITION WORK.

CONNECT COMPLETE TO EXISTING UN-SWITCHED LIGHT CIRCUIT IN THIS SPACE FOR BATTERY CHARGING.

PENDANT MOUNT OCCUPANCY SENSOR TO SAME HEIGHT TO THE BOTTOM LIGHT OF FIXTURES. PROVIDE RACEWAY AND BOX AS REQUIRED.

UKM

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REPORT INCONSISTENCIES AND OMISSIONS TO THE CONSULTANT FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK.

DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE.

ARCHITECT & PRIME CONSULTANT

DIALOG 681 4TH STREET OAKLAND, CA 9467 Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K

 FREMONT CA, 94536

 Tel:
 510.894.2984
 e-mail:

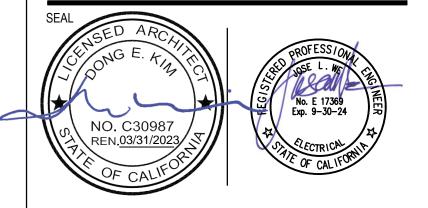
 MECHANICAL
 ENGINEER

 H&M MECHANICAL
 8517 EARHART RD., #230

 OAKLAND, CA 94621
 Tel:
 510.569.2000

 rel:
 510.569.2000
 e-mail:

Tel: 510.569.2000 e-mail: ELECTRICAL ENGINEER WKM ELECTRICAL CONSULTANT 3397 MT. DIABLO BLVD. STE. C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:



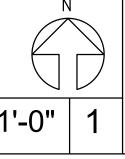
## PCCD LANEY FAB LAB RELOCATION

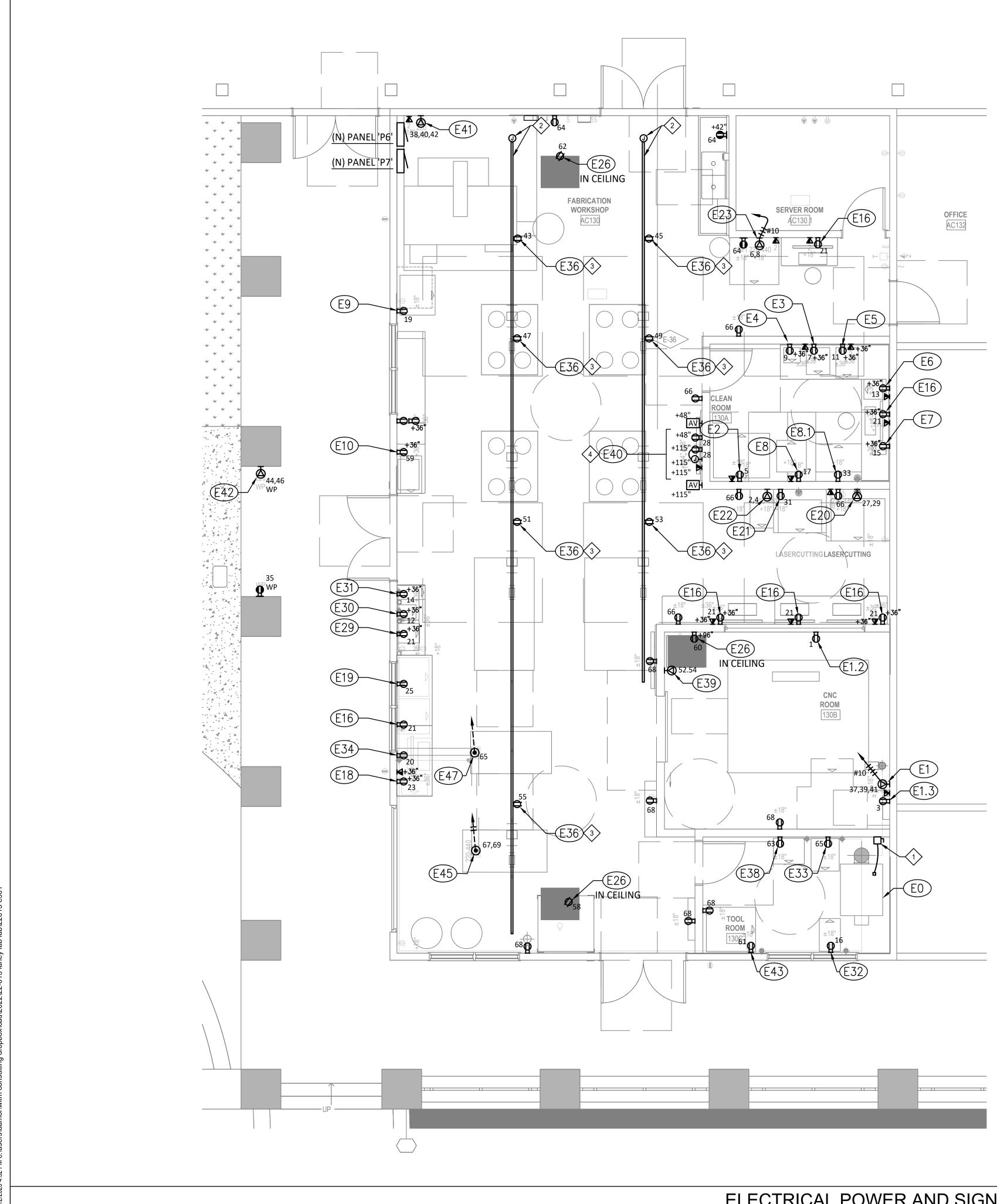
900 FALLON STREET, OAKLAND, CA 94607

ELECTRICAL LIGHTING PLAN FABRICATION LAB DRAWN: DM PLOT DATE: 1/12/2023 4:32 PM

CHECKED: JWE

E2.02





# **GENERAL NOTES**

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS.

TEM #	QTY	ITEM	VOLTS	PHASE	AMPS	WATTS	NOTES
EO	1	EXISTING DUST COLLECTOR	208	3			DEDICATED
E1	1	CNC TABLE - SHOPBOT - SPINDLE	208	3			DEDICATED
E1.2	1	CNC TABLE - CONTROL BOX					DEDICATED
E1.3	1	CNC TABLE - VAC PUMP					DEDICATED
E2	1	UV PRINTER - ROLAND LEF2-200	120	1		90	
E3	1	3D PRINTER - ULTIMAKER	120	1		350	
E4	1	3D PRINTER - FORM 2	120	1		65	
E5	1	3D PRINTER - MOJO	120	1	7		DEDICATED
E6	1	3D PRINTER - ACC. WAVEWASH	120	1		1200	DEDICATED
E7	1	3D PRINTER - ACC. FORM 2 ACCESSORIES					
E8	1	3D PRINTER - FUSE 1	120	1	7.5		DEDICATED
E8.1	1	3D PRINTER - FUSE 1	120	1	1.7		DEDICATED
E8.2	1	3D PRINTER - FUSE 1 VACUUM	120	1	1.7		DEDICATED
E9	1	VINYL CUTTER - CAMM-1 GS-24	120	1	1.7		DEDICATED
E10	1	HEAT PRESS	120	1	15		
E11	4	RED TOOL BOX	120	1	15		
E12	1	HAND TOOL STORAGE					
E13	1	SAFETY TOOLS AND STORAGE					
E14		WHITEBOARD					
E15	3	WASTE BIN					
E16	10	COMPUTER - ALL IN ONE	120	1			
E17	5	COMPUTER LAPTOPS					
E18	1	CNC DESKTOP POCKET NC	120	1			
E19	1	MILL DESKTOP ROLAND MDX-40A	120	1		2.1	
E20	1	LASER CUTTER UNIVERSAL PLS6, 150D	220	1		15	DEDICATED
E21	1	LASER CUTTER EPILOG	120	1		60/75	DEDICATED
E22	1	THERMOFORM FORMECH COMPAC MINI	208	1		13	DEDICATED
E23	1	WATERJET - MAIN PUMP PHOTO MAX	230	1		30	DEDICATED
E23.1	1	WATERJET - DISCHARGE PUMP - PHOTOMAX	230	1		30	
E26	3	AIR FILTER JET	115	1	5		DEDICATED
E28		LUMBER RACK					
E29	1	SPINDLE SANDER GRIZZLY INDUSTRIAL T24717	120	1		15	DEDICATED
E30	1	ROUTER FESTOOL MFK700 EQ	120	1		750	DEDICATED
E31	1	SCROLL SAW PROXXON	120	1		15	DEDICATED
E32	1	DRILL PRES	120	1		20	DEDICATED
E33	1	BAND SAW ROCKWELL MODEL 14					
E34	1	SLIDE MITER SAW BOSCH GCM125D	230			1800	
E35	4	WORK TABLES					
E36	8	ELECTRIC REELS - HUBBELL GR12340-TR	125		15		
E37	1	TABLE SAW SAWTOP CNS175-30					
E38	1	BELT SANDER DAYTON 2PA29					
E39	1	AIR COMPRESSOR SHOPBOT VAC PUMP					
E39.1	1	PORTABLE AIR COMPRESSOR	120	1			
E40	1	PROJECTOR	120	1			
E41	1	SUPER MINI MILL HAAS	220	3		15HP	
E42	1	WELDER - LINCOLN POWER MIG 210 MP	230	1	14.7		
E43	1	BAND SAW - JET 18" MODEL 144418	110	12			
E44	2	ASSEMBLY TABLE	110	1	15.4		
E45	1	DOWN DRAFT TABLE - DENRAY MACHINE 36 42B	220	1	9.4		
E46	8	COMPRESSED AIR DROPS					
E47		PORTABLE CABINET SAW					

## SHEET NOTES

(1) EXISTING RELOCATED DUST COLLECTOR. CONNECT COMPLETE TO EXISTING CIRCUIT SAVED IN DEMOLITION WORK. SEE ALSO NOTE 3, E2.01.

2 ELECTRICAL STRUT CHANNEL RACEWAY IN CEILING. COORDINATE WITH ARCHITECT FOR EXACT LOCATION AND INSTALLATION REQUIREMENTS.

3 RECEPTACLE OUTLET ON STRUT CHANNEL IN CEILING ABOVE COMPLETE WITH ALL ACCESSORIES AND HARDWARE.

4 FOR PROJECTOR CONTROL SYSTEM. COORDINATE WITH ARCHITECT FOR EXACT LOCTAION AND PROVIDE ALL AUDIO/VIDEO CABLING AS REQUIRED FOR A COMPLETE INSTALLATION.

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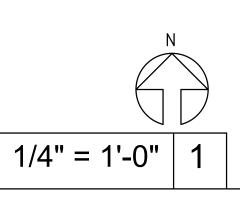
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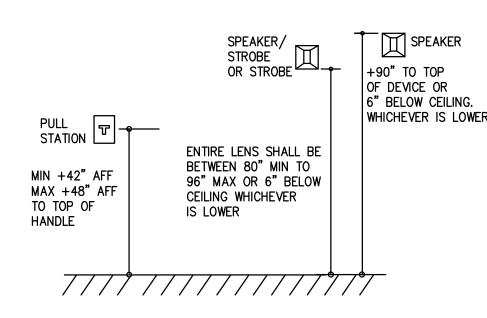
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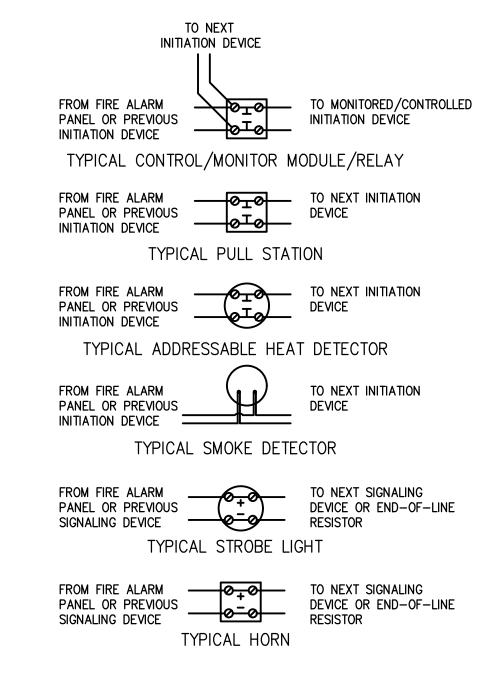
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## TYPICAL FIRE ALARM DEVICE ELEVATION



## TYPICAL FIRE ALARM DEVICE DE

	SIGNAL WIRE/CABLE S	SCHEDULE
TYPE	DESCRIPTION	SYSTEM
Α	2#16 FPL TWISTED SHIELDED	FIRE ALARM INITIATION DEVICES - SLC LOOP BELDEN 9574 OR EQUAL
В	2#12 THWN FPL TWISTED NON SHIELDED	FIRE ALARM HORN/STROBES, BELDEN 9582 OR EQUAL
С	2#12 THWN FPL TWISTED NON SHIELDED	24V POWER CIRCUIT, BELDEN 9582 OR EQUAL

NOTE: ALL EXTERIOR CABLE SHALL BE WET RATED.

_	FIRE ALARM SYMBOL LIST	
	NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES	1. INSTALL NEW ADDRESSABLE SMOKE DETECTORS AND
VER	FACP FIRE ALARM CONTROL PANEL (FACP)	PROVIDE NEW CELLULAR DIALER AND RECONSTRUCT
	FATC FIRE ALARM TERMINAL CABINET	-
	F FIRE ALARM MANUAL PULL STATION, +48" TO TOP OF HANDLE	
	SD FIRE ALARM SMOKE DETECTOR	-EXISTING IS A CONVENTIONAL AUTOMATIC ADDR -CLASS 'B' DETECTION. -CLASS `B' INITIATION.
	HD 135' FIXED HEAT DETECTOR	-SYSTEM IS A PROTECTED PREMISIS AND REQUIRES - BUILDINGS ARE TYPE 'E' OCCUPANCY.
	FIRE ALARM HORN/STROBE WALL OR CEILING MOUNT, CANDELA AS NOTED	- SYSTEM DESIGNER: JOSE L. WE, PE ; WKM ELECTR
IONS NTS 1	M ADDRESSABLE MONITOR MODULE	
	CR ADDRESSABLE CONTROL RELAY MODULE	A
	I ISOLATOR MODULE	PARTIAL LIST OF APPLICABLE CODES AS OF JANUAR
	EXISTING RACEWAY	2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PA 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, T AMENDMENTS)
	NEW 1" CONDUIT CABLE SUSPENDED ON HOOKS	2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, AMENDMENTS) 2019 CALIFORNIA MECHANICAL CO
ED	(E) EXISTING	2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, AMENDMENTS)
	(N) NEW	2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITI 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 2
	(RL) RELOCATED AMP AMPLIFIER PANEL	2019 CALIFORNIA EXISTING BUILDING CODE (CEBC) CALIFORNIA AMENDMENTS) 2019 CALIFORNIA GREEN BUILDING STANDARDS CO
	ANN ANNUNCIATOR	2019 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHA
	CL CENTERLINE	2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR EI UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 AS
	CR CLASSROOM	PARTIAL LIST OF APPLICABLE STANDARDS: NFPA 13 - STANDARD FOR THE INSTALLATION OF SF
	FACP FIRE ALARM CONTROL PANEL	NFPA 14 - STANDARD FOR THE INSTALLATION OF ST FOR DRY CHEMICAL EXTINGUISHING SYSTEMS - 201 2017 EDITION
	FATC FIRE ALARM TERMINAL CABINET MT EMPTY CONDUIT WITH PULL CORD	NFPA 20 - STANDARD FOR THE INSTALLATION OF ST NFPA 22 - STANDARD FOR WATER TANKS FOR PRIV.
	PB PULL BOX	NFPA 24 - STANDARD FOR THE INSTALLATION OF PI EDITION NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING
	PIV POST INDICATOR VALVE	NFPA 80 - STANDARD FOR FIRE DOORS AND OTHER NFPA 2001 - STANDARD ON CLEAN AGENT FIRE EXT
	TS TAMPER SWITCH FS FLOW SWITCH	UL 300 - STANDARD FOR FIRE TESTING OF FIRE EXTI (R2010) UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALA
		UL 521 - STANDARD FOR HEAT DETECTORS FOR FIR UL 1971 - STANDARD FOR SIGNALING DEVICES FOR
		ICC 300 - STANDARD FOR BLEACHERS, FOLDING AN FOR A COMPLETE LIST OF APPLICABLE NFPA STAND
		SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR
		LISTING OF REFERENCED STANDARDS.
		FIRE A
		<ol> <li>FINAL FIRE ALARM TEST SHALL BE MADE WITH THE D AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME O WITNESS SUCH TESTING WHEN ABLE.</li> </ol>
		2. UNDERGROUND AND EXTERIOR CONDUITS WILL HAV
		<ol> <li>FIRE ALARM DEVICE MOUNTING HEIGHTS:</li> <li>PULL STATION: 48" TO TOP OF HANDLE ABOVE FINISH</li> </ol>
		- HORN INTERIOR: MINIMUM 90" TO TOP OF DEVICE AI 6" FROM CEILING. (2016 NFPA72-18.4.8.1)
ETAIL NTS 2		- WALL MOUNTED STROBE OR HORN/STROBE: MINIMU GREATER THAN 96" TO TOP OF STROBE LENS, ABOVE
		6" FROM CEILING. (2016 NFPA72-18.5.4.1) 4. TO ENSURE THAT AUDIBLE PUBLIC MODE SIGNALS AR
		PERMITTED BY 2016 NFPA72-18.4.3.2 THROUGH 18.4 15db ABOVE THE AVERAGE AMBIENT SOUND LEVEL O A DURATION OF AT LEAST 60 SECONDS, WHICHEVER I
		THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY (2016 NFPA72-18.4.3.1)
		5. AUDIBLE DEVICES SHALL SOUND THE CALIFORNIA UN
		6. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SI 1 FLASH EVERY SECOND. (2016 NFPA72-18.5.2.1)
		<ol> <li>FIRE ALARM CONTRACTOR SHALL PROVIDE A ``RECOR (PI) / DSA AFTER COMPLETION OF OPERATIONAL ACC</li> </ol>
		AND FIGURE 14.6.2.4) 8. ALL CIRCUITS SHALL BE SUPERVISED AGAINST OPENS,
		<ol> <li>ALL CIRCOTTS SHALL BE SOPERVISED AGAINST OPENS,</li> <li>INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE</li> </ol>
		10. MARK ALL WIRES IN ACCORDANCE WITH 760-10.
		11. ALL OUTSIDE FIRE ALARM DEVICES SHALL BE CSFM LIS
		12. EXISTING CAMPUS FIRE ALARM SYSTEM SHALL NOT B WITHOUT WRITTEN PERMISSION FROM SCHOOL DIST AUTHORITY PRIOR TO FIRE ALARM SYSTEM SHUTDOV
		13. ALL FIRE ALARM WIRING SHALL BE CONTINUOUS WIT
		BLOCKS OF THE DEVICE OR FIRE ALARM APPROVED TE JUNCTION BOXES.
		14. ALL FIRE ALARM WIRING INSTALLED IN UNDERGROUN UL LISTED FOR WET LOCATIONS.
		15. ALL WIRING TO BE RUN IN FIRE ALARM DEDICATED CO IN CONDUIT MINIMUM SIZE 3/4" U.O.N. USE EXISTING
		A NEW FA WIRING. FIELD VERIFY EXACT EXISTING CO
		<ol> <li>ALL SHIELDS TO BE CONTINUOUS, DRY AND FREE FRO</li> <li>ELECTRICAL/FIRE ALARM CONTRACTOR SHALL VERIFY</li> </ol>
		AND CORRECT ON AS-BUILT DRAWINGS FOR SUBMIT
		18. THIS CAMPUS HAS AN UL LISTED CENTRAL MON SHALL TRANSMIT THE ALARM, SUPERVISORY AN BY NFPA 72, AS AMENDED BY CFC CHAPTER 80.
		UNDERWRITERS LABORATORY OR SHALL MEET T 3011. DIGITAL ALARM COMMUNICATOR TO COM
		19. THE DOCUMENTATION CABINET SHALL BE PROM
		20. AFTER APPROVAL, SUBSTITUTIONS OF FIRE ALAR MANUFACTURER CUT SHEETS AND APPLICABLE (
		I

# SCOPE OF WORK

EDETECTORS AND VISUAL/HORN NOTIFICATION DEVICES IN THE REMODELED AREAS. ID RECONSTRUCT TO A STAND ALONE FIRE ALARM SYSTEM EXISTING SIMPLEX 4100U PANEL.

## TYPE OF SYSTEM

JTOMATIC ADDRESSABLE FIE ALARM SYSTEM.

AND REQUIRES 24 HOUR STANDBY. -THE SUPERVISING STATION SHALL BE LISTED PER CBC 907.6.6.3. ; WKM ELECTRICAL CONSULTANTS, INC

### APPLICABLE CODES

S AS OF JANUARY 1, 2020: E CODE (CAC), PART 1, TITLE 24 CCR (CBC), PART 2, TITLE 24 CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2016 CALIFORNIA E (CEC), PART 3, TITLE 24 CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA

MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND E (CPC), PART 5, TITLE 24 CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA

CEC), PART 6, TITLE 24 CCR PART 9, TITLE 24 CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) ING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019

G STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR ANDARDS CODE, PART 12, TITLE 24 CCR E FIRE MARSHAL REGULATIONS

ETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35) NOTE: CAL/OSHA ELEVATOR JSES THE 2004 ASME A17.1 BY ADOPTION

DARDS: TALLATION OF SPRINKLER SYSTEMS (CA AMENDED) - 2016 EDITION FALLATION OF STANDPIPE AND HOSE SYSTEMS (CA AMENDED) - 2013 EDITION NFPA 17 - STANDARD G SYSTEMS - 2016 EDITION NFPA 17A - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS -

TALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION - 2016 EDITION TANKS FOR PRIVATE FIRE PROTECTION - 2018 EDITION FALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) - 2016

AND SIGNALING CODE (CA AMENDED) - 2016 EDITION ORS AND OTHER OPENING PROTECTIVES - 2016 EDITION AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) - 2015 EDITION

ING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT - 2005 CES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES - 2003 EDITION

ECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS - 1999 EDITION NG DEVICES FOR THE HEARING IMPAIRED - .2002 (R2010) RS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS - 2017 EDITION

BLE NFPA STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

IAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS AND AN OVERALL

## **FIRE ALARM SYSTEM NOTES**

MADE WITH THE DSA PROJECT INSPECTOR (PI). LOCAL FIRE DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/

NDUITS WILL HAVE WATER-TIGHT FITTINGS. (CEC 110-11 AND 300-6)

ANDLE ABOVE FINISHED FLOOR. (CEC 380-8c) TO TOP OF DEVICE ABOVE FINISHED FLOOR, NOT LESS THAN

-18.4.8.1) RN/STROBE: MINIMUM 80" TO BOTTOM OF STROBE LENS AND NOT

ROBE LENS, ABOVE FINISHED FLOOR, NOT LESS THAN -18.5.4.1)

MODE SIGNALS ARE CLEARLY HEARD, UNLESS OTHERWISE 3.2 THROUGH 18.4.3.5, THEY SHALL HAVE A SOUND LEVEL AT LEAST T SOUND LEVEL OR 5db ABOVE THE MAXIMUM SOUND LEVEL HAVING NDS, WHICHEVER IS GREATER, MEASURED 5 ft (1.5 m) ABOVE TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE (dBA).

HE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE. D 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN

ROVIDE A ``RECORD OF COMPLETION" TO THE PROJECT INSPECTOR DPERATIONAL ACCEPTANCE TESTS. (2016 NFPA 72-14.6.2.4

AGAINST OPENS, SHORTS AND GROUNDS.

BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

SHALL BE CSFM LISTED AS WEATHERPROOF TYPE.

STEM SHALL NOT BE DISCONNECTED OR TAKEN OUT OF SERVICE ROM SCHOOL DISTRICT. 48 HOUR NOTICE SHALL PROVIDED TO LOCAL FIRE SYSTEM SHUTDOWN.

CONTINUOUS WITHOUT SPLICES AND TERMINATED IN TERMINAL ARM APPROVED TERMINAL BLOCKS IN TERMINAL CABINETS OR

) IN UNDERGROUND CONDUIT OR OTHER WET LOCATIONS SHALL BE

ARM DEDICATED CONDUIT. ALL NEW FA WIRING SHALL BE INSTALLED J.O.N. USE EXISTING FIRE ALARM CONDUITS WHERE PRACTICAL TO INSTALL XACT EXISTING CONDUIT ROUTING.

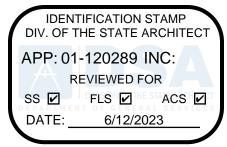
DRY AND FREE FROM ALL GROUNDS AND SHORTS.

TOR SHALL VERIFY EXISTING AVAILABLE ADDRESSES ON EXISTING SYSTEM NGS FOR SUBMITTAL TO SCHOOL DISTRICT AT END OF PROJECT.

CENTRAL MONITORING STATION: SUPERVISING STATION: AUTOMATIC FIRE ALARM SYSTEMS UPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED CHAPTER 80. THE SUPERVISION STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD NICATOR TO COMPLY WITH NFPA 72 26.6.4.

F SHALL BE PROMINENTLY LABELED SYSTEM RECORD DOCUMENTS PER NFPA 72, 7.7.2.4.

NS OF FIRE ALARM MANUFACTURERS SHALL REQUIRE A CHANGE ORDER WITH ND APPLICABLE CSFM LISTINGS.



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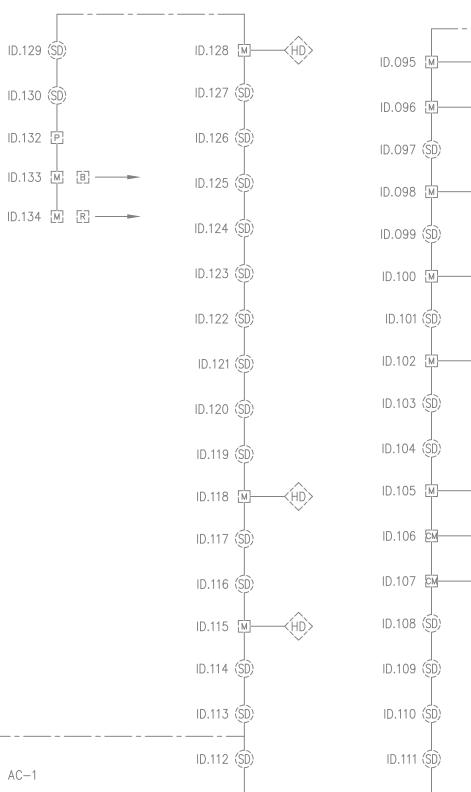
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### FIRE ALARM SYMBOLS, NOTES AND SCHEDULES

DRAWN: DM PLOT DATE: 5/17/2023 6:38 PM

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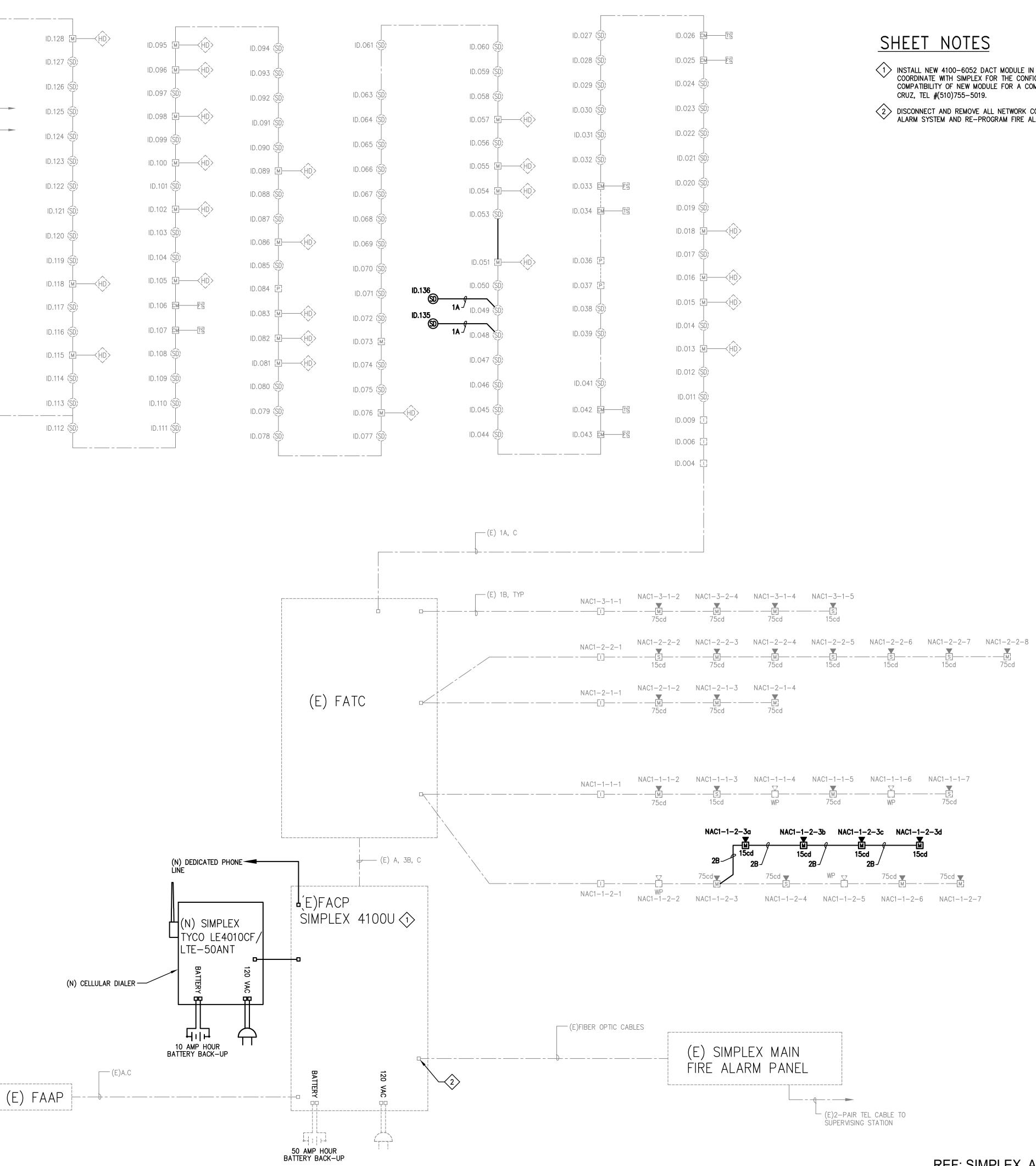
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ID.154	ĐD	AC-4
ID.155	ĐD	HF-1
ID.156	ĐD	HF-2
ID.157	ĐĐ	HF-3

\_\_\_\_\_

ID.129 (SD)

ID.130 (SD)

ID.132 🖻



# SHEET NOTES

- INSTALL NEW 4100-6052 DACT MODULE IN EXISTING SPARE SLOT IN PANEL. COORDINATE WITH SIMPLEX FOR THE CONFIGURATION OF EXISTING PANEL TO ENSURE COMPATIBILITY OF NEW MODULE FOR A COMPLETE INSTALLATION. CONTACT SILVESTRE CRUZ, TEL #(510)755-5019.
- 2 DISCONNECT AND REMOVE ALL NETWORK CONNECTIONS TO THE EXISTING MAIN FIRE ALARM SYSTEM AND RE-PROGRAM FIRE ALARM SYSTEM AS REQUIRED.

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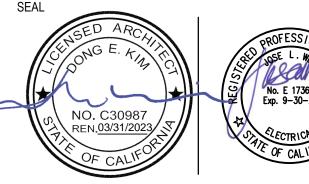
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## PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

FIRE ALARM **RISER DIAGRAM** 

DRAWN: DM PLOT DATE: 5/17/2023 6:38 PM

CHECKED: JWE

FA0.02

·-----<u>[s]</u> 75cd 15cd 75cd 75cd 👿

REF: SIMPLEX AS BUILT # 915757401

Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment (E	E) (N)			<b>,</b>		
4100-9111	1	4100U CONFIG. DOMESTIC 120V	0.373000	0.373000	0.470000	0.47000
4100-6014	1	NETWORK IF CARD, WIRED	0.046000	0.046000	0.046000	0.0460
4100-6033	1	ALARM RELAY	0.015000	0.015000	0.037000	0.0370
4100-6052	1	EVENT REPORTING DACT	0.030000	0.030000	0.040000	0.0400
4100-6057	1	NETWORK MEDIA CARD FIBER OPTIC	0.025000	0.025000	0.025000	0.0250
4100-6063	1	LEFT PORT FIBER MODEM	0.360000	0.360000	0.360000	0.3600
4100-6064	1	RIGHT PORT FIBER MODEM	0.360000	0.360000	0.360000	0.3600
4100-3101	1	IDNET MODULE, UP TO 250 POINTS	0.075000	0.075000	0.115000	0.1150
2081-9296	1	TRUEALERT POWER SUPPLY, 3 CHANNELS, 120V	0.088000	0.088000	0.10000	0.1000
4100-6052	1	DACT	0.03000	0.03000	0.04000	0.0400
+100 0002	1		Total Panel Stby	1.402000	Total Panel Alarm	1.5930
			Total Faller Stby			1.0000
Peripheral Devices						
4603-9101	1	SERIAL LCD ANNUNCIATOR	0.030000	0.030000	0.170000	0.1700
4903-9451 1	2	TRUEALERT 75CD AUDIBLE/VISIBLE RED	0.000200	0.002400	0.219000	2.6280
4903-9450	7 4	TRUEALERT 15CD AUDIBLE/VISIBLE RED	0.000200	0.002200	0.083000	0.9130
4904-9351	4	TRUEALERT 75CD VISIBLE ONLY RED	0.000200	0.000800	0.205000	0.8200
MT-12/24-R	4	MULTI-TONE HORN WEATHERPROOF	0.00000	0.000000	0.042000	0.1680
4905-9816	4	TRUEALERT ADAPTER, ADDRESSABLE	0.000425	0.001700	0.018000	0.0720
4905-9929	5	TRUEALERT ISOLATOR MODULE	0.00000	0.00000	0.015000	0.0750
4090-9116	3	INTELLIGENT IDNET ISOLATOR MODULE *	0.00000	0.000000	0.00000	0.0000
4099-9001	4	IDNET SINGLE ACTION PULL STATION *	0.00000	0.000000	0.00000	0.0000
4098-9792 8	32	TRUEALARINI SENSUR DASE	0.00000	0.00000	0.00000	0.0000
4098-9714 8	32 <b>Z</b>	TRUEALARM PHOTO SMOKE SENSOR	0.00000	0.00000	0.00000	0.0000
4090-9001 3 4090-9002	1		0.00000	0.00000	0.00000	0.0000
4090-9002		IDNET RELAY IAM       *         IDNET CLASS B MONITOR ZAM       *	0.00000	0.00000	0.000000	0.0000
4098-9756	∠ 	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT *	0.016000 0.002400	0.032000	0.072000 0.015000	0.1440
2098-9806	7	REMOTE TEST STATION W/ LED AND KEY SWITCH	0.00000	0.000000	0.000000	0.0000
4098-9843	7	ENCAPSULATED RELAY PAM-SD	0.00000	0.000000	0.015000	0.1050
	1	PHOTO-ELECTRIC BEAM SMOKE DETECTOR	0.017000	0.017000	0.038500	0.0385
BEAM1224S			0.017000	0.017000	0.000000	0.0000
BEAM1224S	1		Total Periph Stby	0.10290	Total Periph Alarm	5.2385

\* Current Draw Included With Device Addresses Used (See additional current draws) 1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.

Note: The total Ah required takes into account any physical and chemical properties of battery discharge rates, high alarm current draw of a battery after a long (standby) low current draw, and reflects the manufacturers discharge rates per their recommendations and UL standards.

			Battery Set #1 (Cabinet/Charger #1)		Qty	Standby Current		Alarm Current
			Cabinet #1 Card Power			1.50490	<u>Backup Amplifier</u>	1.593
(N)FIRE ALARM CELLULAR COMMUNICATOR			Current Draw For 100 Watt Or 95 Watt Amplifiers		0	0.000	0	0.000
DESCRIPTION			Current Draw For Flex 35 and 50 Watt Amplifiers		0	0.000		0.000
WIRELESS CELLULAR COMMUNICATOR PANEL		ACH TOTAL 4000 0.4000	Power For External Peripheral Devices			0.10310		5.2385
					-	1.60800	< Sub Totals>	6.8315
PANEL STANDBY CURRENT	0.2000		Additional Current Draws					
PANEL ALARM CURRENT		0.4000	RUI Connected Peripheral Devices		1	0.004		0.004
TOTAL S	SYSTEM CURPENT		MAPNET/IDNet Device Addresses ordered / used	135	135.0	0.108		0.135
DESCRIPTION	(AMPS)	ALARM (AMPS)	Spare addressable point capacity included for battery calc		0	0.000		0.000
CONTROL PANEL	0.2000	0.4000			-	1.7200	<grand totals=""></grand>	6.9705
			Additional Battery Capacity Required	0%		0.000		0.000
TOTAL STANDBY CURRENT	0.2000			U/o				0.000
X 24 HOUR STANDBY	4.8000				lles			
X 24 HOUR STANDBY TOTAL ALARM CURRENT		0.4000	Standby Time =	24	Hrs	41.2800	Standby Ah	
X 24 HOUR STANDBY		0.4000 0.1000 5.3000 (2) 10 AH		24			Standby Ah Alarm Ah	

(E)4100U F	ACP IN LA
4100U	NOTIFICATI
DISTANCE CA	ALCULATOR
2 VOLT MA	XIMUM LINE
CHANNEL	BRANCH
CH 1	BR 1
CH 1	BR 2
WIRE RESISTA	NCE IS FOR
50 DEGREES	CELSIUS.
WIRE RESIST	ANCE PER
12GA =	0.00177
14GA =	0.00282
16GA =	0.00450
18GA =	0.00714
WIRE RESISTA	NCE BASED
NOTE:	
LUMP SUM ME	THOD WAS
OF SAFETY, T	AKING INTO
ON THE SHOP	DRAWINGS.
LENGTH, CONT	TACT YOUR

LANEY COLLEGE ARTS BLDG – ELEC/IDF RM		]									
TION APPLIANCE SIGNALING LINE CIRCUIT SCHEDULE / DR FOR TRUEALERT CONTROLLER NE DROP	A/V 4903–9451 75cd	V/0 4904-9350 15cd	V/0 4904–9351 75cd	4905–9816 ADAPTER	A/0 MT-12/24-R HORN	ISOLATOR MODULE	ESTIMATED CIRCUIT	TOTAL CURRENT	WIRE GAUGE	ACTUAL VOLTAGE	DISTANCE TO FARTHEST
DESCRIPTION	0.219000	0.083000	0.205000	0.018	0.042000	0.015	LENGTH	(AMPS)	(18, 16, 14, 12)		APPLIANCE
NAC1-1-1-XX HORN STROBES	2	1	1	2	2	1	160 ft.	0.813	12	2.37%	632 ft.
NAC1-1-2-XX HORN STROBES	3	4	1	2	2	1	<b>360</b> ft.	1.281	12	5.61%	543 ft.
DR SOLID UNCOATED COPPER WIRE AT								Total Cha	annel Load		
).	5	5	2	4	4	2		1.	928		
R FOOT							-	<sup>-</sup> otal Addres	ses (63 MAX) <b>14</b>		
								Total Unit Lo	oads (75 MAX)		
								:	22		

ON TABLE 8 FROM NATIONAL ELECTRICAL CODE (UNCOATED SOLID COPPER WIRE)

USED TO CALCULATE ALLOWABLE VOLTAGE DROP. THIS METHOD ALLOWS A MARGIN CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LOCAL SIMPLEXGRINNELL DISTRICT OFFICE.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 01-120289 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗹 DATE: 6/12/2023

APPROVAL STAMP:



ISSUED FOR DSA SUBMITTAL V4 5.22.2023



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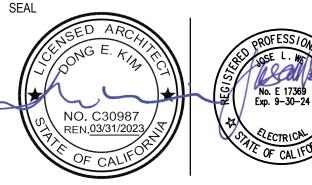
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DIALOG 681 4TH STREET OAKLAND, CA 9467 Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES

37481 MAPLE ST., SUITE K FREMONT CA, 94536 Tel: 510.894.2984 e-mail:

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ELECTRICAL ENGINEER WKM ELECTRICAL CONSULTANT 3397 MT. DIABLO BLVD. STE. C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:



## PCCD LANEY FAB LAB RELOCATION

900 FALLON STREET, OAKLAND, CA 94607

## FIRE ALARM CALCULATIONS

DRAWN: DM PLOT DATE: 5/17/2023 6:39 PM

CHECKED: JWE

FA0.03

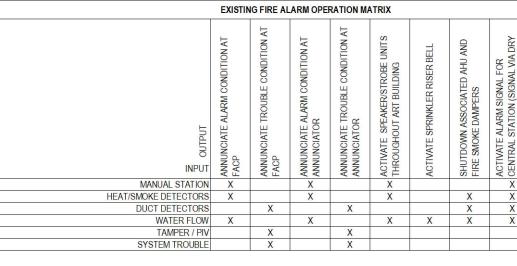
# REF: SIMPLEX AS BUILT # 915757401

FILE: C:\Users\JWe\WKM Consulting Dropbox\CAD\2022\22-013 Laney Fab Lab\22013 FA003.dwg.DWG 05/16/23 at 23:31

DEVICE		
DDRESS	DEVICE LABEL	
ID.001	SPARE	SPARE
ID.002	SPARE	SPARE
ID.003	SPARE	SPARE
ID.004	IDNET ISOLATOR MODULE	
ID.005	SPARE	SPARE
ID.006	IDNET ISOLATOR MODULE	SPARE
ID.007	SPARE	SPARE
ID.008	IDNET ISOLATOR MODULE	
ID.009	SPARE	SPARE
ID.011	SMOKE DETECTOR	ETCHING
ID.012	SMOKE DETECTOR	ACID ROOM
ID.013	ZAM – MONITOR MODULE	ACID ROOM
ID.014	SMOKE DETECTOR	EXPOSURE ROOM
ID.015	ZAM – MONITOR MODULE	EXPOSURE ROOM
ID.016	ZAM - MONITOR MODULE	DARK ROOM
ID.017	SMOKE DETECTOR	DARK ROOM
ID.018	ZAM - MONITOR MODULE	OFFICE
ID.019	SMOKE DETECTOR	OFFICE
ID.020	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.021	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.022	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.023	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.024	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.025	IAM - MONITOR MODULE	PRINTMAKING WORKSHOP FLOW SWITCH
ID.026	IAM - MONITOR MODULE	PRINTMAKING WORKSHOP TAMPER SWITCH
ID.027	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.028	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.029	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.030 ID.031	SMOKE DETECTOR	PRINTMAKING WORKSHOP PRINTMAKING WORKSHOP
ID.031	SMOKE DETECTOR	PRINTMAKING WORKSHOP
ID.033	IAM - MONITOR MODULE	SITE BACKFLOW PREVENTER
ID.034	IAM - MONITOR MODULE	SITE PIV VALVE
ID.035	SPARE	SPARE
ID.036	PULL STATION	CENTER CORRIDOR
ID.037	SPARE	SPARE
ID.038	SMOKE DETECTOR	SCULPTURE WORKSHOP
ID.039	SMOKE DETECTOR	SCULPTURE WORKSHOP
ID.040	SPARE	SPARE
ID.041	SMOKE DETECTOR	SCULPTURE WORKSHOP
ID.042	IAM - MONITOR MODULE	SCULPTURE WORKSHOP FLOW SWITCH
ID.043	IAM - MONITOR MODULE	SCULPTURE WORKSHOP TAMPER SWITCH
ID.044	SMOKE DETECTOR	SCULPTURE WORKSHOP
ID.045	SMOKE DETECTOR	SCULPTURE WORKSHOP
ID.046	SMOKE DETECTOR	SCULPTURE WORKSHOP
ID.047	SMOKE DETECTOR SMOKE DETECTOR	STORAGE SCULPTURE WORKSHOP
ID.048 ID.049	SMOKE DETECTOR	SCULPTURE WORKSHOP
ID.050	SMOKE DETECTOR	SCULPTURE WORKSHOP
ID.051	ZAM - MONITOR MODULE	SCULPTURE WORKSHOP CLOSET
ID.052	SMOKE DETECTOR	SCULPTURE WORKSHOP CLOSET
ID.053	SMOKE DETECTOR	OFFICE
ID.054	ZAM - MONITOR MODULE	OFFICE
ID.055	ZAM - MONITOR MODULE	DAMP
ID.056	SMOKE DETECTOR	DAMP
ID.057	ZAM - MONITOR MODULE	OFFICE
ID.058	SMOKE DETECTOR	OFFICE
ID.059	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.060	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.061	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.062	SPARE	SPARE
ID.063	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.064	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.065 ID.066	SMOKE DETECTOR	CERAMICS WORKSHOP CERAMICS WORKSHOP
ID.066	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.068	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.069	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.070	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.071	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.072	SMOKE DETECTOR	CERAMICS WORKSHOP
ID.073	ZAM – CONTROL MODULE	GLAZING
ID.074	SMOKE DETECTOR	CLAY MIX
ID.075	SMOKE DETECTOR	CLAY MIX
ID.076	ZAM - MONITOR MODULE	STORAGE
ID.077	SMOKE DETECTOR	STORAGE
ID.078	SMOKE DETECTOR	GLAZING
ID.079	SMOKE DETECTOR	GLAZING
ID.080	SMOKE DETECTOR	GLAZING
ID.081	ZAM - MONITOR MODULE	KILN
ID.082	ZAM - MONITOR MODULE	KILN
ID.083	ZAM - MONITOR MODULE	KILN W. CORRIDOR
ID.084	PULL STATION	

	1	
DEVICE ADDRESS	DEVICE LABEL	LOCATION
ID.086	ZAM – MONITOR MODULE	OFFICE
ID.087	SMOKE DETECTOR	OFFICE
ID.088	SMOKE DETECTOR	ART HISTORY CLASSROOM
ID.089	ZAM - MONITOR MODULE	ART HISTORY CLASSROOM
ID.090	SMOKE DETECTOR	ART HISTORY CLASSROOM
ID.091	SMOKE DETECTOR	GENERAL LAB
ID.092	SMOKE DETECTOR	GENERAL LAB
ID.093	SMOKE DETECTOR	GENERAL LAB
ID.094	SMOKE DETECTOR	GENERAL LAB
ID.095	ZAM - MONITOR MODULE	GENERAL LAB
ID.096	ZAM - MONITOR MODULE	JANITOR
ID.097	SMOKE DETECTOR	JANITOR
ID.098	ZAM - MONITOR MODULE	OFFICE
ID.099	SMOKE DETECTOR	OFFICE
ID.100	ZAM - MONITOR MODULE	MECH/STORAGE
ID.101	SMOKE DETECTOR	MECH/STORAGE
ID.102	ZAM – MONITOR MODULE	JAN CLO/WH ROOM
ID.103	SMOKE DETECTOR	MEN'S
ID.104	SMOKE DETECTOR	WOMEN'S
ID.105	ZAM – MONITOR MODULE	WOMEN'S/MEN'S
ID.105	IAM - MONITOR MODULE	RESTROOMS FLOW SWITCH
ID.100	IAM - MONITOR MODULE	RESTROOMS TAMPER SWITCH
	SMOKE DETECTOR	PAINTING STUDIO 2
ID.108		
ID.109	SMOKE DETECTOR	PAINTING STUDIO 2
ID.110	SMOKE DETECTOR	PAINTING STUDIO 2
ID.111	SMOKE DETECTOR	PAINTING STUDIO 2
ID.112	SMOKE DETECTOR	PAINTING STUDIO 2
ID.113	SMOKE DETECTOR	PAINTING STUDIO 2
ID.114	SMOKE DETECTOR	PAINTING STUDIO 2
ID.115	ZAM - MONITOR MODULE	STORAGE
ID.116	SMOKE DETECTOR	STORAGE
ID.117	SMOKE DETECTOR	OFFICE
ID.118	ZAM - MONITOR MODULE	OFFICE
ID.119	SMOKE DETECTOR	PAINTING STUDIO 1
ID.120	SMOKE DETECTOR	PAINTING STUDIO 1
ID.121	SMOKE DETECTOR	PAINTING STUDIO 1
ID.122	SMOKE DETECTOR	PAINTING STUDIO 1
ID.123	SMOKE DETECTOR	PAINTING STUDIO 1
ID.124	SMOKE DETECTOR	PAINTING STUDIO 1
ID.125	SMOKE DETECTOR	PAINTING STUDIO 1
ID.126	SMOKE DETECTOR	PAINTING STUDIO 1
ID.120	SMOKE DETECTOR	PAINTING STUDIO 1
	ZAM - MONITOR MODULE	OFFICE
ID.128		
ID.129	SMOKE DETECTOR	OFFICE
ID.130	SMOKE DETECTOR	STORAGE
ID.131	ZAM - MONITOR MODULE	STORAGE
ID.132	PULL STATION	CENTER CORRIDOR
ID.133	IAM - MONITOR MODULE	BEAM DETECTOR ALARM
ID.134	IAM - MONITOR MODULE	BEAM DETECTOR TROUBLE
ID.135	SMOKE DETECTOR	CNC ROOM 130B
ID.136	SMOKE DETECTOR	GLEAN ROOM 130A
ID.137	SPARE	SPARE
THRU		
ID.150	SPARE	SPARE
ID.151	DUCT DETECTOR	AC-1
ID.152	DUCT DETECTOR	AC-2
ID.153	DUCT DETECTOR	AC-3
ID.155	DUCT DETECTOR	AC-4
	DUCT DETECTOR	
ID.155		HF-1
ID.156	DUCT DETECTOR	HF-2
ID.157	DUCT DETECTOR	HF-3
ID.158	SPARE	SPARE
	1	
THRU ID.255	- SPARE	– SPARE

	MANUCTURER			
ITEM NO.	MODEL NUMBER	MANUFACTURER	DESCRIPTION	CSFM NO.
1	4100-9111	SIMPLEX	4100U FIRE ALARM CONTROL PANEL	7165-0026:251
2	2081-9296	SIMPLEX	50AH BATTERY	N/A
3	4603-9101	SIMPLEX	REMOTE ANNUNCIATOR W/LCD (SEMI-FLUSH)	7120-0026:179
4	4099-9001	SIMPLEX	MANUAL PULL STATION	7150-0026:224
5	4098-9714	SIMPLEX	PHOTO SMOKE SENSOR TRUE ALARM	7272-0026:218
6	4098-9792	SIMPLEX	DETECTOR BASE	7300-0026:217
7	4098-9756	SIMPLEX	DUCT DETECTOR WITH PHOTO SMOKE SENSOR	3240-0026:241
8	2098-9806	SIMPLEX	REMOTE ALARM INDICATOR/TEST SWITCH	7300-0026:150
9	4098-9843	SIMPLEX	PAM SD RELAY	7300-1004:101
10	2098-9797	SIMPLEX	SAMPLING TUBE	
11	4090-9001	SIMPLEX	IAM IDNET MODULE	7300-0026:223
12	4098-9733	SIMPLEX	HEAT SENSOR 135 DEGREE	7270-0026:216
13	4098-9614	SIMPLEX	HEAT SENSOR 200 DEGREE	7270-0026:221
14	4098-9792	SIMPLEX	DETECTOR BASE	7300-0026:217
15	4090-9002	SIMPLEX	IDNET RELAY MODULE	7300-0026:223
16	4903-9451	SIMPLEX	ADDRESSABLE HORN/STROBE RED WALL MOUNTED 75CD	7125-0026:239
17	4903-9450	SIMPLEX	ADDRESSABLE HORN/STROBE RED WALL MOUNTED 15CD	7125-0026:239
18	4904-9351	SIMPLEX	ADDRESSABLE STROBE RED WALL MOUNTED 75CD	7125-0026:317
19	MT-12/24 R	WHEELOCK	WHEELOCK MULTI-TONE HORN	7135-0785:118
20	4905-9816	SIMPLEX	TRUE ALERT ADAPTER MODULE	7300-0026:315
21	IOB-R	WHEELOCK	WHELLOCK BACK BOX	N/A
22	4090-9002	SIMPLEX	IDNET RELAY IAM	7300-0026:223
23	4090-9116	SIMPLEX	INTELLIGENT IDNET ISOLATOR MODULE	7300-0026:252
24	4905-9929	SIMPLEX	TRUE ALERT ISOLATOR MODULE	7300-0026:214
25	4100-6052	SIMPLEX	DIGITAL ALARM COMMUNICATING TRANSMITTER	7165-0026:0251
26				
27	BEAM1224S	SYSTEM SENSOR	PHOTOELECTRIC SMOKE BEAM DETECTOR	7260-1653:168
28	BEAMSMK	SYSTEM SENSOR	BEAM DETECTOR SURFACE MOUNT KIT	N/A
29	RTS451KEY	SYSTEM SENSOR	BEAM DETECTOR REMOTE KEY TEST SWITCH	N/A
30	4090-9101	SIMPLEX	IDNET CLASS B MONITOR ZAM	7300-0026:223
31	LE4010CF LTE	SIMPLEX/TYCO	WIRELESS CELLULAR COMMUNICATOR	7300-1273:0506



X X X X CENTRAL STATION (SIGNAL VIA DKY CONTACTS)	ACTIVATE TROUBLE SIGNAL FOR CENTRAL STATION (SIGNAL VIA DRY CONTACTS)	ANNUNCIATE SUPERVISORY AT PANEL AND ANNUNCIATOR AND CENTRAL STATION	
Х			
Х			
Х			
	X	X	
	X X		

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 01-120289 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: <u>6/12/2023</u>

APPROVAL STAMP:



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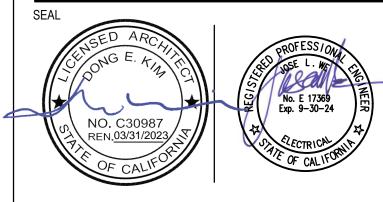
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MECHANICAL ENGINEER H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 e-mail:

ELECTRICAL ENGINEER WKM ELECTRICAL CONSULTANT 3397 MT. DIABLO BLVD. STE. C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:



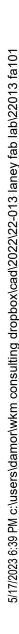
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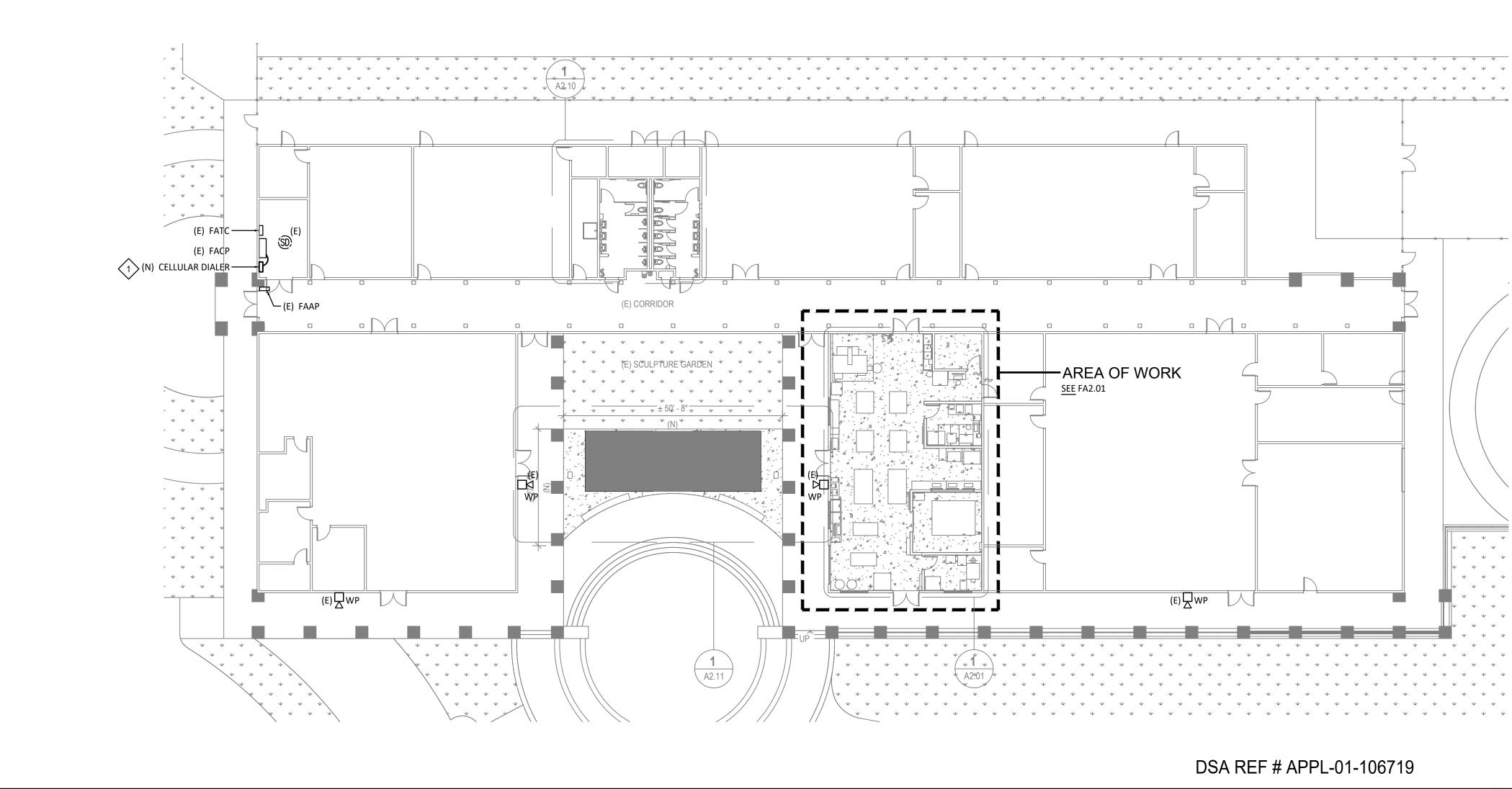
900 FALLON STREET, OAKLAND, CA 94607

FIRE ALARM IDNET ADDRESS SCHEDULE DRAWN: DM PLOT DATE: 5/17/2023 6:39 PM

CHECKED: JWE

FA0.04





	TIFICATION S THE STATE AF	
APP: 01	-120289 IN	NC:
A R	EVIEWED FO	R
ss 🗹	FLS 🗹	ACS 🗹
DATE:	6/12/202	

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## SHEET NOTES

CONNECT NEW WIRELESS CELLULAR COMMUNICATOR TO EXISTING DEDICATED 120V FIRE ALARM CIRCUIT. SITE VERIFY FOR EXACT LOCATION.



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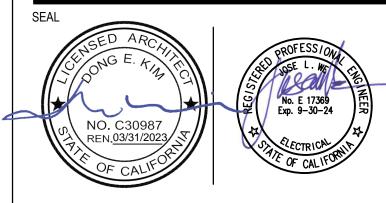
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DIALOG 681 4TH STREET OAKLAND, CA 9467 Tel: 510.452.3224 e-mail: STRUCTURAL ENGINEER TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K

FREMONT CA, 94536 Tel: 510.894.2984 e-mail: MECHANICAL ENGINEER H&M MECHANICAL 8517 EARHART RD., #230 OAKLAND, CA 94621 Tel: 510.569.2000 e-mail:

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## PCCD LANEY FAB LAB RELOCATION

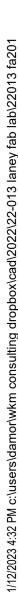
900 FALLON STREET, OAKLAND, CA 94607

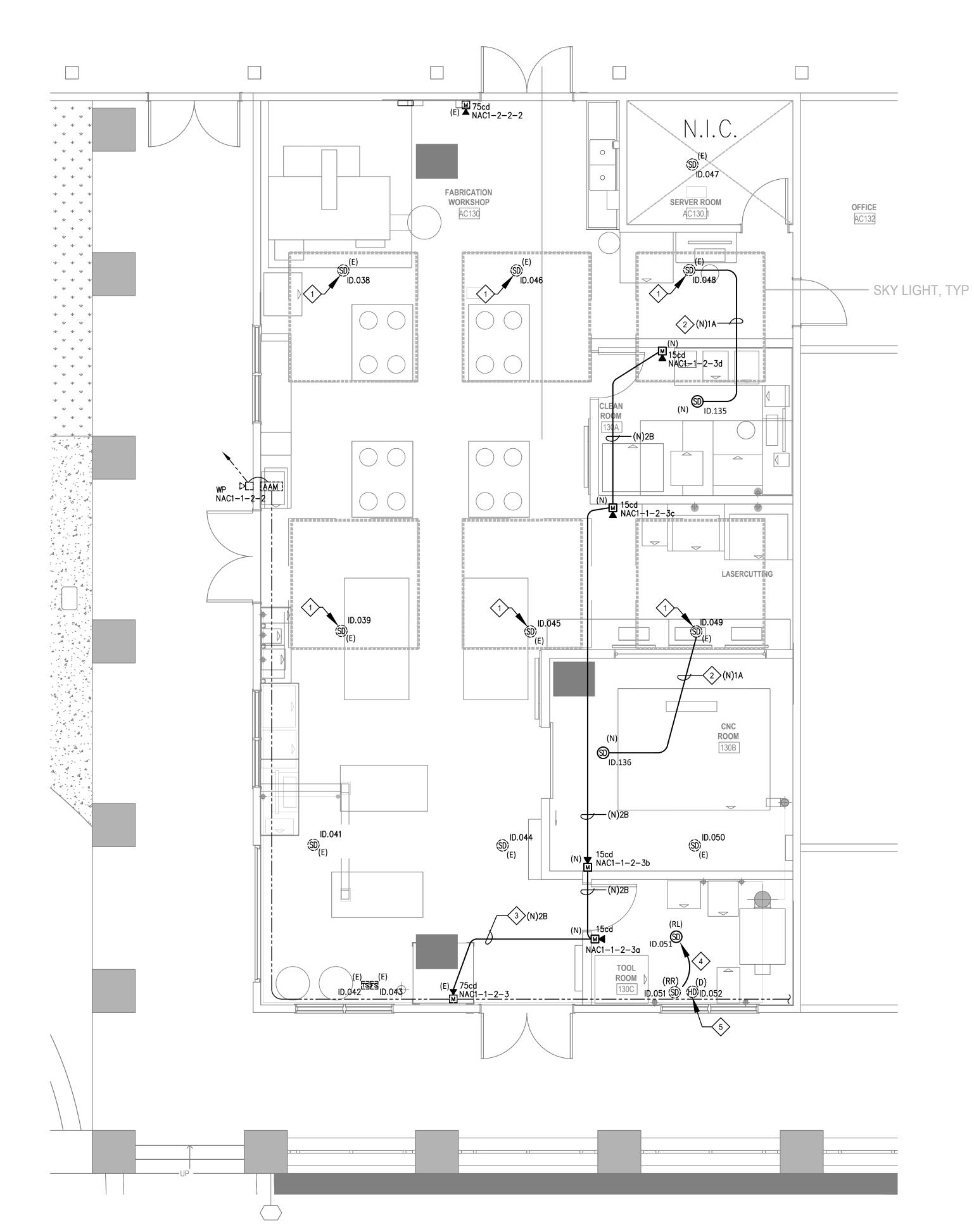
## FIRE ALARM OVERALL PLAN

DRAWN: DM PLOT DATE: 5/17/2023 6:39 PM

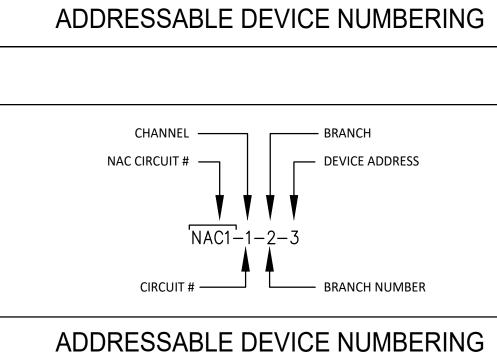
CHECKED: JWE

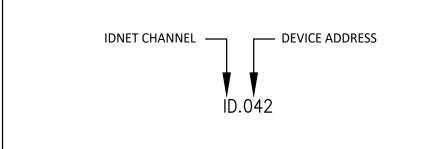
FA1.01





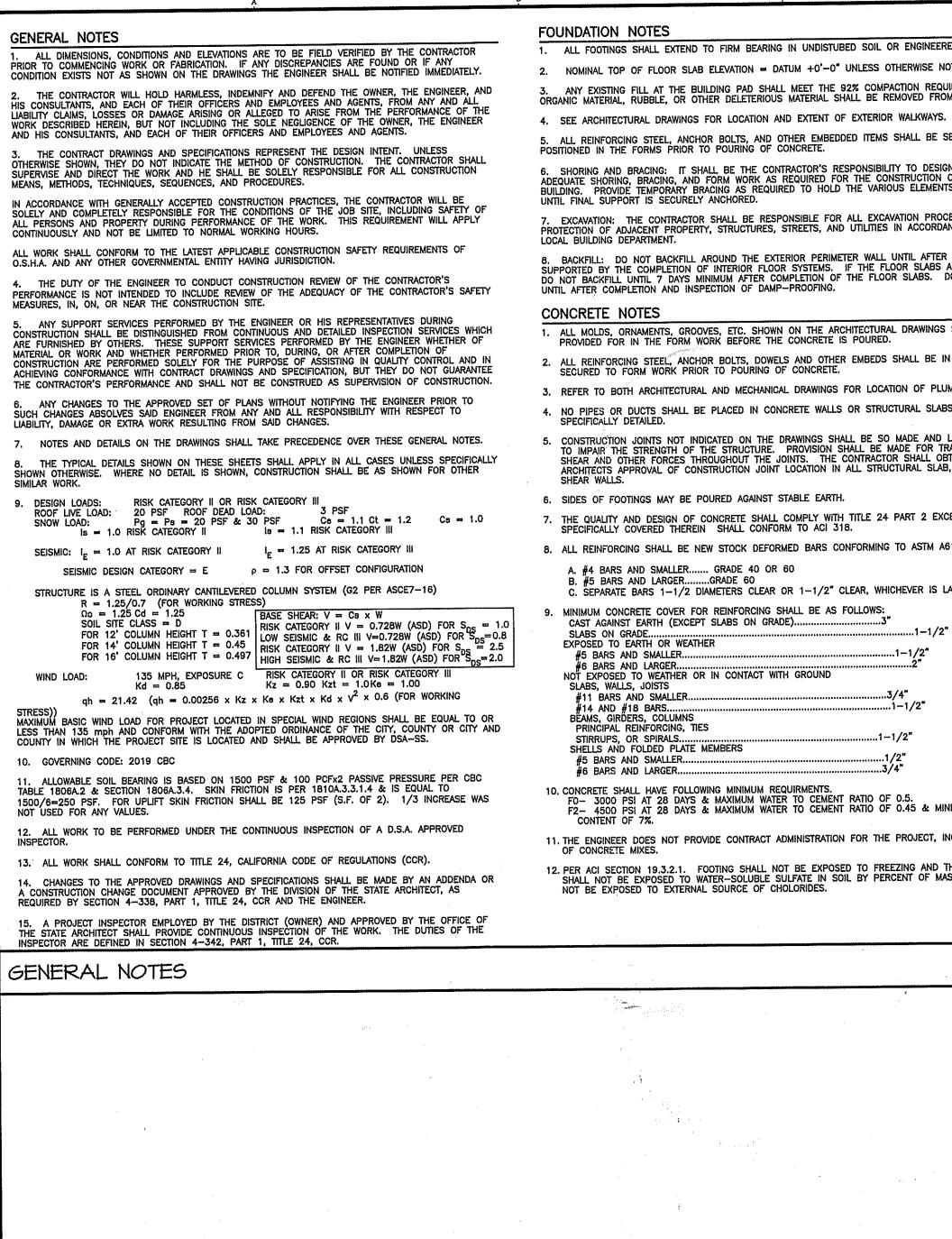
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	TIFICATION STAMP THE STATE ARCHITECT
APP: 01	-120289 INC:
A R	EVIEWED FOR
ss 🗹	FLS 🗹 ACS 🗹
DATE:	6/12/2023

		APP: 01-120289 INC: REVIEWED FOR SS I FLS ACS I DATE: 6/12/2023
	SHEET NOTES	
	EXISTING SMOKE DETECTOR INSTALLED WITHIN 3-FT OF	
	<ul> <li>SKYLIGHT PEAK.</li> <li>2 EXTEND EXISTING INITIATION CIRCUIT TO NEW DEVICE AS</li> </ul>	APPROVAL STAMP:
	SHOWN. 3 EXTEND EXISTING NOTIFICATION CIRCUIT TO NEW DEVICE AS	
	SHOWN.	
	<ul> <li>OF TOOL ROOM. EXTEND CIRCUIT WIRING TO NEW LOCATION AS SHOWN, MATCH EXISTING. RE-CONNECT COMPLETE.</li> </ul>	ISSUED FOR DSA SUBMITTAL V4 5.22.2023
	EXISTING HEAT DETECTOR TO BE REMOVED INCLUDING ALL ASSOCIATED MODULE AND CIRCUIT WIRING.	
		URM
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		TAEHO UM & ASSOCIATES 37481 MAPLE ST., SUITE K FREMONT CA, 94536
		Tel: 510.894.2984 e-mail: MECHANICAL ENGINEER H&M MECHANICAL
		8517 EARHART RD., #230 OAKLAND, CA 94621
		Tel: 510.569.2000 e-mail: ELECTRICAL ENGINEER WKM ELECTRICAL CONSULTANT
		3397 MT. DIABLO BLVD. STE. C LAFAYETTE, CA 94549 Tel: 925.385.0649 e-mail:
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		NO. C30987 REN.03/31/2023
		OF CALIFOR
		PCCD LANEY FAB LAB RELOCATION
		900 FALLON STREET, OAKLAND, CA 94607
		FABRICATION LAB FIRE ALARM SYSTEM PLAN
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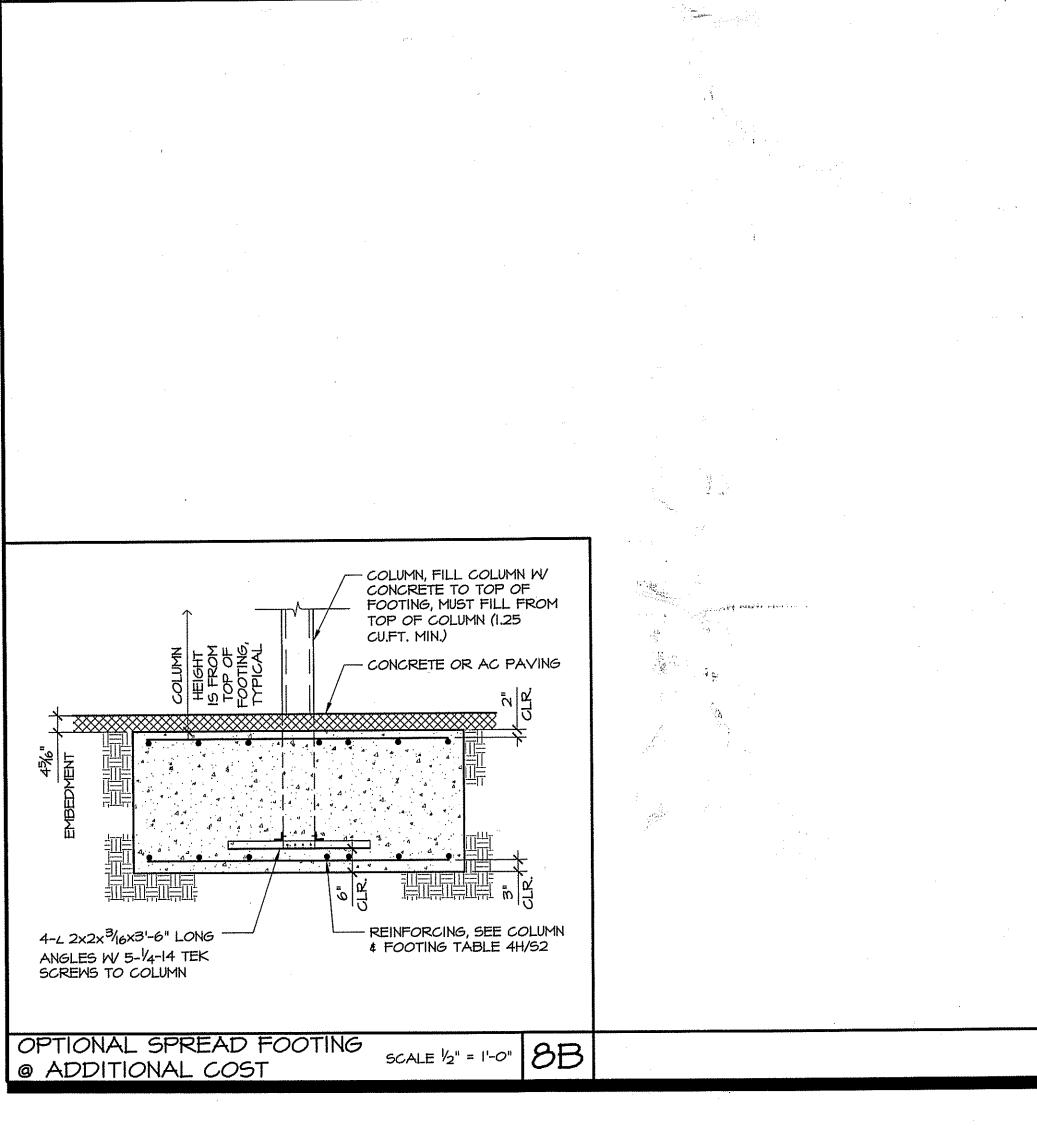


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### 5. ALL REINFORCING STEEL, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SEC POSITIONED IN THE FORMS PRIOR TO POURING OF CONCRETE. 6. SHORING AND BRACING: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN ADEQUATE SHORING, BRACING, AND FORM WORK AS REQUIRED FOR THE CONSTRUCTION O BUILDING. PROVIDE TEMPORARY BRACING AS REQUIRED TO HOLD THE VARIOUS ELEMENTS UNTIL FINAL SUPPORT IS SECURELY ANCHORED. 7. EXCAVATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEI PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE LOCAL BUILDING DEPARTMENT. 8. BACKFILL: DO NOT BACKFILL AROUND THE EXTERIOR PERIMETER WALL UNTIL AFTER SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. IF THE FLOOR SLABS A DO NOT BACKFILL UNTIL 7 DAYS MINIMUM AFTER COMPLETION OF THE FLOOR SLABS. DO UNTIL AFTER COMPLETION AND INSPECTION OF DAMP-PROOFING. CONCRETE NOTES 1. ALL MOLDS, ORNAMENTS, GROOVES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED. 2. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER EMBEDS SHALL BE IN SECURED TO FORM WORK PRIOR TO POURING OF CONCRETE. 3. REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF PLUM NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE WALLS OR STRUCTURAL SLABS SPECIFICALLY DETAILED.

- 5. CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE SO MADE AND L TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR TRA SHEAR AND OTHER FORCES THROUGHOUT THE JOINTS. THE CONTRACTOR SHALL OBT ARCHITECTS APPROVAL OF CONSTRUCTION JOINT LOCATION IN ALL STRUCTURAL SLAB,
- 6. SIDES OF FOOTINGS MAY BE POURED AGAINST STABLE EARTH.
- 7. THE QUALITY AND DESIGN OF CONCRETE SHALL COMPLY WITH TITLE 24 PART 2 EXCERNING SPECIFICALLY COVERED THEREIN SHALL CONFORM TO ACI 318. 8. ALL REINFORCING SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A61
- A. #4 BARS AND SMALLER ...... GRADE 40 OR 60 B. #5 BARS AND LARGER......GRADE 60 C. SEPARATE BARS 1-1/2 DIAMETERS CLEAR OR 1-1/2" CLEAR, WHICHEVER IS LA
- 9. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS: CAST AGAINST EARTH (EXCEPT SLABS ON GRADE) ...... SLABS ON GRADE...... EXPOSED TO EARTH OR WEATHER ..1–1/2'
- #5 BARS AND SMALLER .... #6 BARS AND LARGER ... NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALLS, JOISTS #11 BARS AND SMALLER. #14 AND #18 BARS ..... ...1–1/2" BEAMS, GIRDERS, COLUMNS PRINCIPAL REINFORCING, TIES ..1-1/2 STIRRUPS, OR SPIRALS .. SHELLS AND FOLDED PLATE MEMBERS
- #5 BARS AND SMALLER ... #6 BARS AND LARGER .. 10. CONCRETE SHALL HAVE FOLLOWING MINIMUM REQUIRMENTS. FO- 3000 PSI AT 28 DAYS & MAXIMUM WATER TO CEMENT RATIO OF 0.5. F2- 4500 PSI AT 28 DAYS & MAXIMUM WATER TO CEMENT RATIO OF 0.45 & MINIM
- CONTENT OF 7%. 11. THE ENGINEER DOES NOT PROVIDE CONTRACT ADMINISTRATION FOR THE PROJECT, INC OF CONCRETE MIXES.
- 12. PER ACI SECTION 19.3.2.1. FOOTING SHALL NOT BE EXPOSED TO FREEZING AND THAWING CYCLES, SHALL NOT BE EXPOSED TO WATER-SOLUBLE SULFATE IN SOIL BY PERCENT OF MASS 20.10%, SHALL NOT BE EXPOSED TO EXTERNAL SOURCE OF CHOLORIDES.

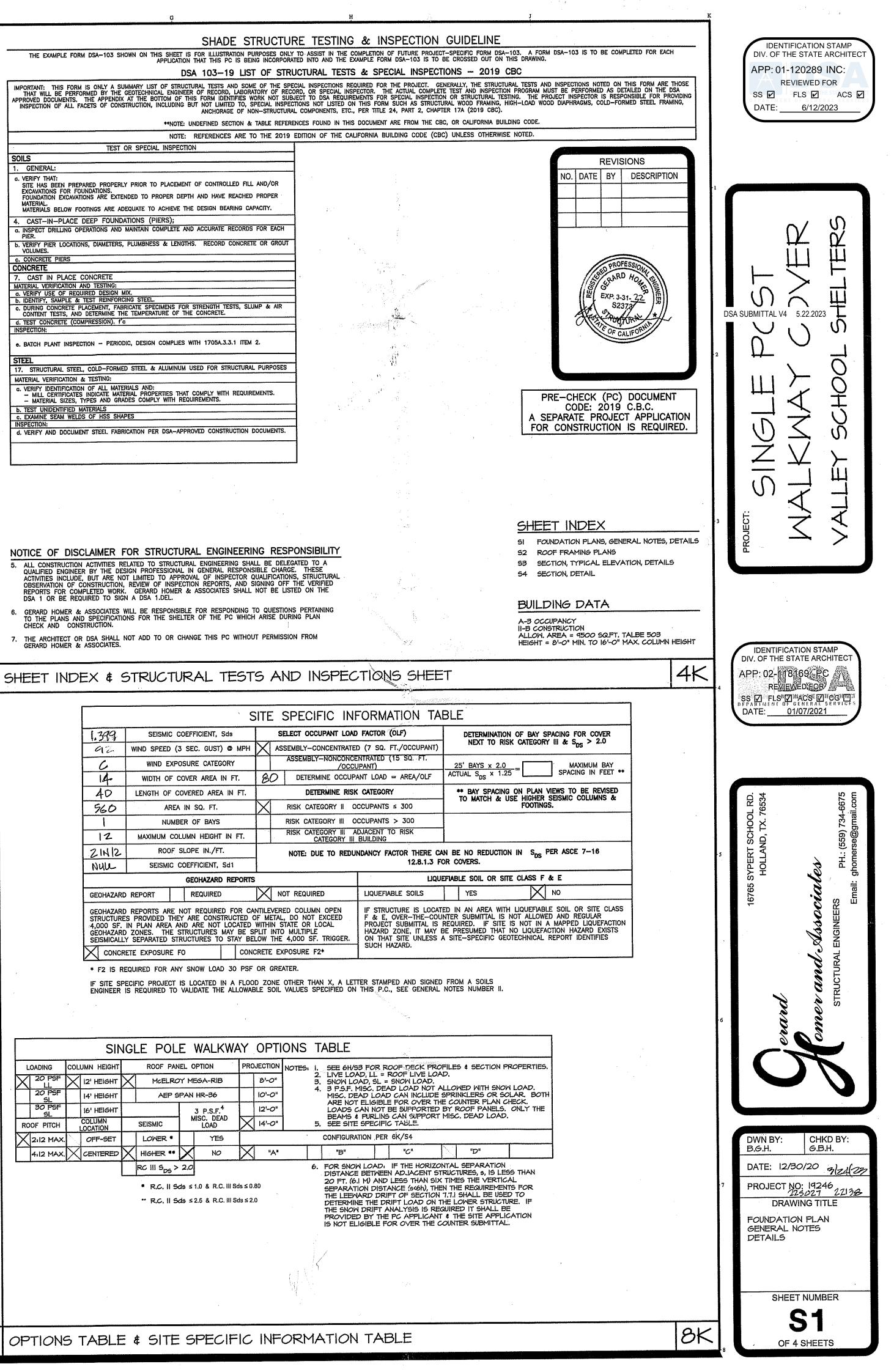


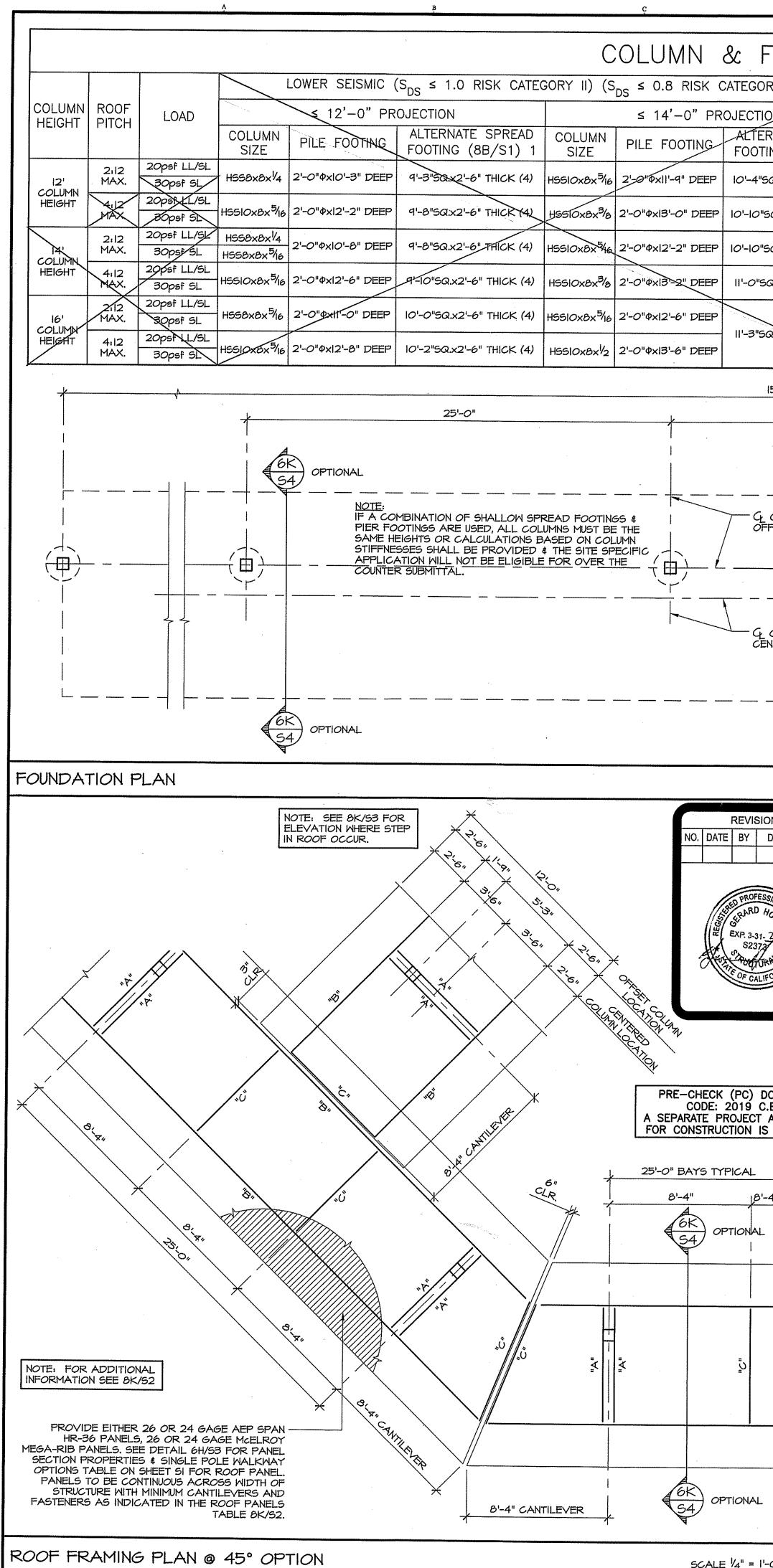
	STRUCTURAL STEEL NOTES	SHADE STRUCTURE TE
D FILL.	<ol> <li>ALL STRUCTURAL STEEL EXCEPT W SHAPES SHALL CONFORM TO ASTM A-36 AND SHALL BE FABRICATED AND ERECTED AS PER AISC SPECIFICATIONS FOR BUILDINGS. W SHAPES SHALL CONFORM TO ASTM A992.</li> </ol>	THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST APPLICATION THAT THIS PC IS BEING INCORPORATED INTO A DSA 103-19 LIST OF STRUCTURAL
TED.		
REMENTS. ALL I THE SITE.	<ol> <li>STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE "B" AND STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500 GRADE "B", Fy=46KSI.</li> <li>ALL LIGHT GAGE STEEL TO CONFORM TO ASTM A653 GRADE 55 FOR ALL STRUCTURAL SHAPES, A653</li> </ol>	IMPORTANT: THIS FORM IS ONLY A SUMMARY LIST OF STRUCTURAL TESTS AND SOME OF THE SPECIAL INSPE- THAT WILL BE PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD, LABORATORY OF RECORD, OR SF APPROVED DOCUMENTS. THE APPENDIX AT THE BOTTOM OF THIS FORM IDENTIFIES WORK NOT SUBJECT TO DS INSPECTION OF ALL FACETS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, SPECIAL INSPECTIONS NOT
	GRADE 33 FOR ALL BLOCKING, FLASHINGS, MISCELLANEOUS CONNECTION PLATES, AND ANGLES.	ANCHORAGE OF NON-STRUCTURAL COMPONE
CURELY	4. ALL UNFINISHED BOLTS SHALL BE ASTM A-307 UNLESS NOTED OTHERWISE.	**NOTE: UNDEFINED SECTION & TABLE REFERENCES FOUR
AND PROVIDE	5. USE AISC USUAL GAGES FOR BOLT HOLES IN ALL STEEL SECTIONS UNLESS OTHERWISE NOTED.	NOTE: REFERENCES ARE TO THE 2019 EDITION OF
F THIS 5 IN PLACE	6. THE STEEL FABRICATOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ERECTION.	TEST OR SPECIAL INSPECTION
DURES AND FOR	7. ALL BOLT HOLES ARE TO BE $\frac{1}{16}$ " OVERSIZED. ALL BOLTS SHALL HAVE WASHERS INSTALLED UNDER BOTH HEAD & NUT.	SOILS 1. GENERAL: g. VERIFY THAT:
ICE WITH THE THE WALLS ARE RE CONCRETE, D NOT BACKFILL	8. ALL STEEL SHALL BE PROTECTED FROM WEATHER AS FOLLOWS: STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MIMIMUN ASTM A123 OR A153, CLASS D) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM. COLD-FORMED STEEL MEMBERS SHALL BE 55% ALUMINUM-ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S200 TABLE A4-1, CP 90 COATING DESIGNATION.	SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF CONTROLLED FILL AND/OR EXCAVATIONS FOR FOUNDATIONS. FOUNDATION EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. 4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS);
SHALL BE	ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM), OR PROTECTED WITH CORROSION-PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT. (EXAMPLE PROPRIETARY COATINGS THAT DO COMPLY WITH THE 1,000 HOUR REQUIREMENT INCLUDE BUT ARE NOT NECESSARILY LIMITED TO: QUIK	<ul> <li>CASIT IN FLOOD DELET FOOTES MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER.</li> <li>VERIFY PIER LOCATIONS, DIAMETERS, PLUMBNESS &amp; LENGTHS. RECORD CONCRETE OR GROUT VOLUMES.</li> <li>CONCRETE PIERS</li> </ul>
	GUARD BY SIMPSON, KWIK-COTE BY HILTI, STALGARD BY ELCO, VISTACORR BY SFS INTEC, ETC.)	7. CAST IN PLACE CONCRETE
IBING FIXTURES.	GOVERNING CODES:	MATERIAL VERIFICATION AND TESTING: a. VERIFY USE OF REQUIRED DESIGN MIX.
UNLESS	1. 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).	b. IDENTIFY, SAMPLE & TEST REINFORCING STEEL. c. DURING CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, SLUMP & AIR
ANTER AS NOT	2. 2019 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2 (PART 2, TITLE 24, CCR).	CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
OCATED AS NOT	3. 2019 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).	INSPECTION:
AIN THE BEAMS AND	4. 2019 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR).	e. BATCH PLANT INSPECTION - PERIODIC, DESIGN COMPLIES WITH 1705A.3.3.1 ITEM 2.
	NOTES	STEEL 17. STRUCTURAL STEEL, COLD-FORMED STEEL & ALUMINUM USED FOR STRUCTURAL PURPOSES
EPT ITEMS NOT	1. COVERS ARE NOT DESIGNED TO BE ENCLOSED OR FOR STORAGE OF COMBUSTIBLE MATERIALS.	17. STRUCTURAL STEEL, COLD-FORMED STEEL & ALOMINUM USED FOR STRUCTURAL FOR USED
15.	2. WALKWAY COVER HAS BEEN CHECKED FOR OBSTRUCTED WIND FLOW CONDITION & CAN BE WITHIN 6" MIN. FROM AN EXISTING BUILDING.	a. VERIFY IDENTIFICATION OF ALL MATERIALS AND: - MILL CERTIFICATES INDICATE MATERIAL PROPERTIES THAT COMPLY WITH REQUIREMENTS. - MATERIAL SIZES, TYPES AND GRADES COMPLY WITH REQUIREMENTS.
	3. WALKWAY PIER FOOTING HAS BEEN CHECKED FOR D.S.A. BULLETIN 09-06 REV.	b. TEST UNIDENTIFIED MATERIALS
RGER.	4. ALL WORK SHALL COMPLY WITH C.F.C. CHAPTER 33 DURING CONSTRUCTION.	c. EXAMINE SEAM WELDS OF HSS SHAPES INSPECTION:
	TESTING & INSPECTIONS REQUIRMENTS	d. VERIFY AND DOCUMENT STEEL FABRICATION PER DSA-APPROVED CONSTRUCTION DOCUMENTS.
	1. INSPECTOR CLASS (MINIMUM REQUIREMENTS) CLASS 2	
	2. SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY BY THE SCHOOL DISTRICT AND APPROVED BY D.S.A., A/E OF RECORD AND STRUCTURAL ENGINEER	
	3. COST OF THE PROJECT INSPECTOR (CA ADMIN. CODE 4-333(B) AND TESTING AGENCY (CA ADMIN. CODE 4-335) BY THE SCHOOL DISTRICT	
	4. COPIES OF THE REPORT TO ARCHITECT; STRUCTURAL ENGINEER; SCHOOL DISTRICT; D.S.A. (ORIGINAL); IOR; MANUFACTURER	
	NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY	NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBIL
MUM AIR	<ol> <li>PER TITLE 24, PART 1, SECTION 4-316 (D &amp; E) OF THE CALIFORNIA CODE OF REGULATIONS, THE DISTRICT SHALL HIRE AN ARCHITECT OR STRUCTURAL ENGINEER TO BE IN GENERAL RESPONSIBLE CHARGE OF SITE SPECIFIC PROJECT.</li> </ol>	5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCT
CLUDING REVIEW	2. FOR SITE SPECIFIC PROJECT GERARD HOMER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.	OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFI REPORTS FOR COMPLETED WORK. GERARD HOMER & ASSOCIATES SHALL NOT BE LISTED ON TH DSA 1 OR BE REQUIRED TO SIGN A DSA 1.DEL.
IAWING CYCLES, S 20.10%, SHALL	3. FOR SITE SPECIFIC PROJECT GERARD HOMER & ASSOCIATES RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR A PORTION OF THE PROJECT AS DESIGNED BY THE ARCHITECT FOR INCORPORATION INTO THE PROJECT.	<ul> <li>6. GERARD HOMER &amp; ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER OF THE PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.</li> </ul>
		UTEON AND CONSTRUCTION

4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM GERARD HOMER & ASSOCIATES RESPONSIBILITY FOR SITE SPECIFIC PROJECT.

1.399	SEISMI	c cc	EFFICIENT,	Sds			SE
92	WIND SPEED	) (3	SEC. GUS	T) @	MPH	$\mathbf{X}$	ASS
6	WIND E	XPOS	SURE CATE	GORY			
14.	WIDTH O	F CC	VER AREA	IN F	т.	B	0
40	LENGTH OF	- CO	VERED ARI	EA IN	FT.		
560	A	REA	IN SQ. FT.			$\mathbb{X}$	
l	NL	IMBE	R OF BAYS	5			
12	MAXIMUM	MAXIMUM COLUMN HEIGHT IN FT.					
21N12	ROC	ROOF SLOPE IN./FT.					
NUL	SEISMI	c co	DEFFICIENT	Sd1			
			GEOHAZAR	D RE	PORTS		
GEOHAZARD	REPORT		REQUIRE	D		$\mathbb{N}$	NO
STRUCTURE 4,000 SF.	REPORTS AF S PROVIDED IN PLAN ARE ZONES. TH C SEPARATED	THEY A AN E ST	ARE CON D ARE NO RUCTURES	STRUI T LOI MAY	CTED C CATED BE SI	of Mi Withi Plit	ETAL, IN ST INTO
	ETE EXPOSUR	E FC	)		CONC	CRETE	E EXF
* 50 10 05	QUIRED FOR	ANY	SNOW 10		D PSF	OR	GREA

							WALKWA	r		<u> </u>
LOADING COLUMN HEIGHT		ROOF PANEL OPTION			PROJECTION		NC			
$\times$	20 PSF LL	$\times$	12' HEIGHT	imes				8'-0"		
	20 PSF SL		14' HEIGHT		AEP S	AEP SPAN HR-36			10'-0"	
	30 PSF SL		16' Height				3 P.S.F. <sup>4</sup>		12'-0"	
RO	OF PITCH		COLUMN OCATION		SEISMIC	h	AISC. DEAD LOAD	$\boxtimes$	14'-0"	
X	2:12 MAX.		OFF-SET		LOWER *		YES			
تسبيك	4.12 MAX.	$\boxtimes$	CENTERED	$\boxtimes$	HIGHER **	$\mathbf{X}$	NO	$\mathbb{X}$	"A"	
		<b>.</b>	· · · · · · · · · · · · · · · · · · ·		rc III s <sub>ds</sub> >	2.0				
					• R.C. 11 50	des≤	- 1.0 & R.C. III So	is ≤ 0.	80	
** R.C. II Sds ≤ 2.5 & R.C. III Sds ≤ 2.0										





 -	/		\53	)
		- 6" MIN. BUILDING SEPARATION @ EXISTING BUILDING @ 12'-6" MAX. COLUMN HEIGHT & 9" MIN. BUILDING SEPARATION @ EXISTING BUILDING @ 16'-6" MAX. COLUMN HEIGHT. SEE OPTIONS TABLE ON SI FOR ADDITIONAL SEPERATION REQUIREMENTS DUE TO SNOW LOAD.		TYP. @ NON-COLUMN LINES

NOTE: SEE BK/S3 FOR ELEVATION WHERE STEP

IN ROOF OCCUR.

SCALE 1/4" = 1'-0" 8B ROOF FRAMING PLANS

