

VENTURA COLLEGE DIESEL SHOP

4667 TELEGRAPH ROAD
VENTURA, CALIFORNIA 93003

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

ABBREVIATIONS

&	AND
(E)	EXISTING
(N)	NEW
@	AT
ARCH	ARCHITECTURAL
CLG	CEILING
CLR	CLEAR
DEMO	DEMOLITION
EQ	EQUAL
EQUIP	EQUIPMENT
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.G	FINISH GRADE
F.H.C.	FIRE HOSE CABINET
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
F.R.	FIRE RATED, FIRE RESISTANT
F.S.	FINISHED SURFACE
FIN	FINISH
FLR	FLOOR
FR.	FRAME
FT	FOOT OR FEET
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GYP	GYPSUM
H.M.	HOLLOW METAL
HDB	HARDBOARD
HDR	HEADER
HDW	HARDWARE
HI	HIGH
HT	HEIGHT
IN	INCHES
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
R.C.P.	REFLECTED CEILING PLAN
RM	ROOM
S.F.	SQUARE FEET
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.I.F.	VERIFY IN FIELD
VERT	VERTICAL
VEST	VESTIBULE
W.C.	WATER CLOSET
W.H.	WATER HEATER
W.O.	WHERE OCCURS
W.R.	WATER RESISTANCE
W/	WITH
WD	WOOD
WDW	WINDOW

DRAWING INDEX

GENERAL	
G001	TITLE SHEET
G002	GENERAL & ACCESSIBILITY NOTES & CODE ANALYSIS
G003	ACCESSIBILITY DETAILS
ARCHITECTURAL	
A100	CAMPUS SITE PLAN
A101	SITE PLAN
A101F	SITE PLAN - LOCAL FIRE AUTHORITY
A102	DEMOLITION FLOOR PLAN
A103	NEW FLOOR PLAN
A104	REFLECTED CEILING PLAN
A105	ROOF PLAN
A106	ENLARGE SITE PLAN & DETAILS
A201	DEMO & NEW ELEVATION
A301	SECTIONS
A401	EXISTING INTERIOR ELEVATION
A501	DOOR & WALL DETAILS
A601	DOOR SCHEDULE
STRUCTURAL	
S000	GENERAL NOTES
S001	GENERAL NOTES
S002	TYPICAL DETAILS
S003	TYPICAL DETAILS
S103	PARTIAL FOUNDATION PLAN
S104	PARTIAL MEZZANINE FRAMING PLAN
S105	PARTIAL ROOF FRAMING PLAN
S201	STRUCTURAL ELEVATION
S300	STRUCTURAL DETAILS
S301	STRUCTURAL DETAILS
MECHANICAL	
M101	MECHANICAL NOTES & SCHEDULE
M201	MECHANICAL FLOOR PLAN
M202	MECHANICAL ROOF PLAN
M301	MECHANICAL SECTION & DETAILS
M401	MECHANICAL CONTROLS
FIRE PROTECTION	
FP001	GENERAL NOTES & SITE PLAN
FP100	FIRE SPRINKLER DEMO PLAN
FP101	FIRE SPRINKLER PLAN
FP200	SECTIONS & DETAILS

ELECTRICAL	
E100	GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST
E101	INDOOR TITLE 24
E130	BUILDING S LIGHTING DEMOLITION PLAN
E131	BUILDING S MEZZANINE DEMOLITION LIGHTING PLAN
E140	BUILDING S POWER DEMOLITION PLAN
E141	BUILDING S MEZZANINE POWER EXISTING PLAN
E200	BUILDING S ELECTRICAL SINGLE LINE DIAGRAM
E201	BUILDING S ELECTRICAL PANEL SCHEDULES
E300	ELECTRICAL LIGHTING SCHEDULE & LIGHTING DETAIL
E301	FIRST FLOOR LIGHTING PLAN
E401	FIRST FLOOR POWER PLAN
E420	ELECTRICAL SCHEDULE & MECHANICAL EQUIPMENT FOR GROUND LEVEL
E421	ELECTRICAL POWER FOR MECHANICAL ON ROOF
E422	CONTROL DIAGRAM FOR SYSTEM 1 AND 2
E600	ELECTRICAL DETAILS
E700	BUILDING S MEZZANINE FIRE ALARM PLAN
E701	BUILDING S FIRE ALARM PLAN
E702	BUILDING S FIRE ALARM SYSTEM DETAILS
Grand total: 53	

SUMMARY OF SCOPE OF WORK

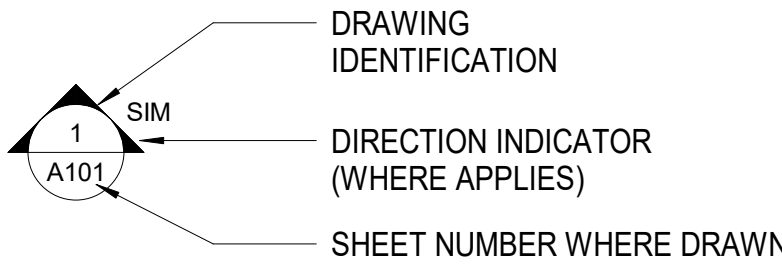
- UPGRADES ON EXISTING "S" BUILDING (AUTO CLASS LAB AND MANUFACTURED CLASS LAB ROOMS)
- REPLACING A SINGLE DOOR WITH DOUBLE DOOR AND A SIDE WINDOW.
- FIRE PROTECTION UPGRADES.
- POWER AND LIGHTING UPGRADES.
- REMOVING 2 ACCESSIBLE PARKING FOR NEW TRUCK ENTRY. REPLACING WITH ONE ACCESSIBLE PARKING VAN AND ONE ACCESSIBLE PARKING STALL.
- ENLARGING ROLL UP GARAGE DOOR AND PERSONNEL DOOR WITH NEW.
- ADDING 3 NEW EXHAUST FANS TO PARK 6 TRUCKS FOR VENTILATION.
- UPGRADES TO PARKING LOT (CONFIRMING ACCESSIBLE PARKING STALLS, AND PATH OF TRAVEL, RESTRIPING)

DESIGN TEAM

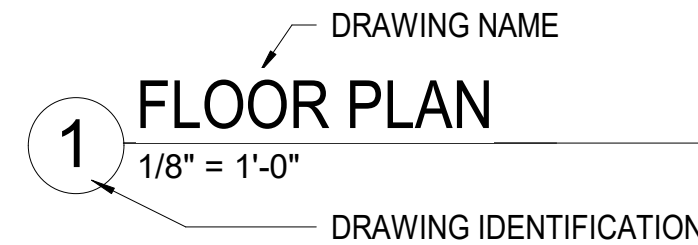
ARCHITECT AMADOR WHITTLE ARCHITECTS 28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301 (805) 530-3938	ARCHITECT AMADOR WHITTLE ARCHITECTS 28328 AGOURA ROAD, SUITE 203 AGOURA HILLS, CA 91301 (805) 530-3938
FIRE PROTECTION ENGINEER SCHRAM FIRE PROTECTION ENGINEERING 6123 INEZ ST. STE 6 VENTURA, CA 93003 (805) 605-2511	MECHANICAL & PLUMBING ENGINEER AE GROUP MECHANICAL ENGINEERS, INC. 838 E FRONT ST. VENTURA, CA 93001 (805) 653-1722
STRUCTURAL ENGINEER ORION STRUCTURAL GROUP, INC. 223 E. THOUSAND OAKS BLVD. #220 THOUSAND OAKS, CA 91360 (805) 390-9242	ELECTRICAL LUCCI & ASSOCIATES, INC. 3251 CORTE MALPASO, #511 CAMARILLO, CALIFORNIA 93012 (805) 389-6520

LEGEND

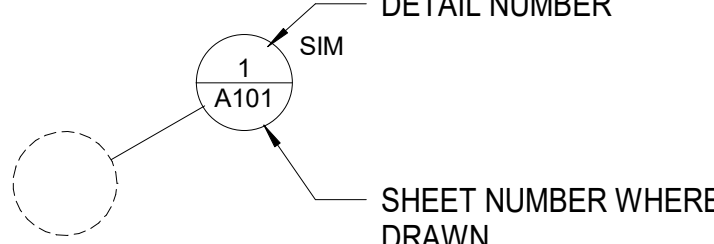
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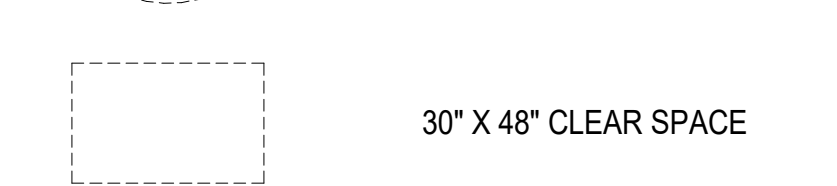
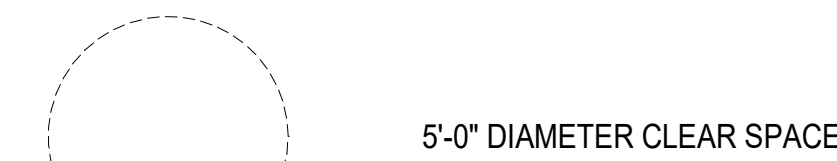
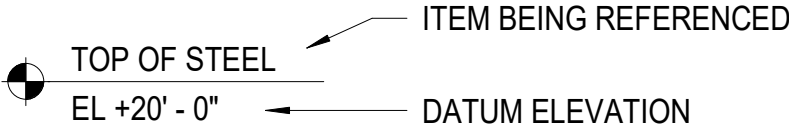
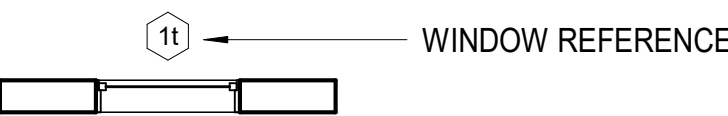
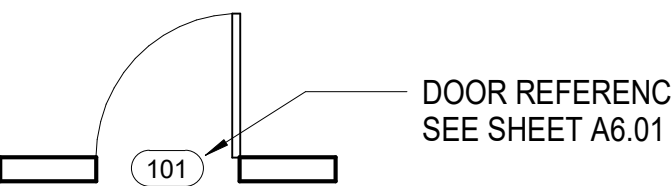
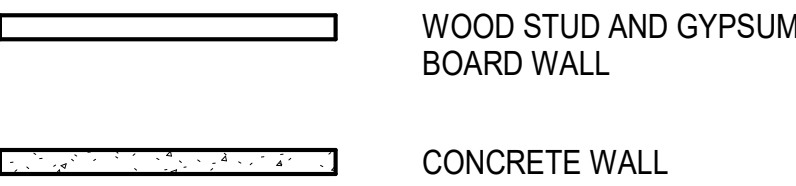
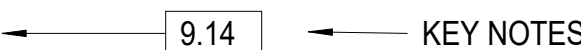
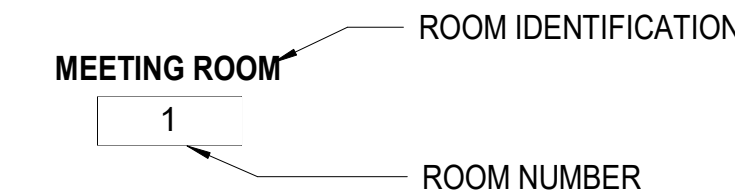
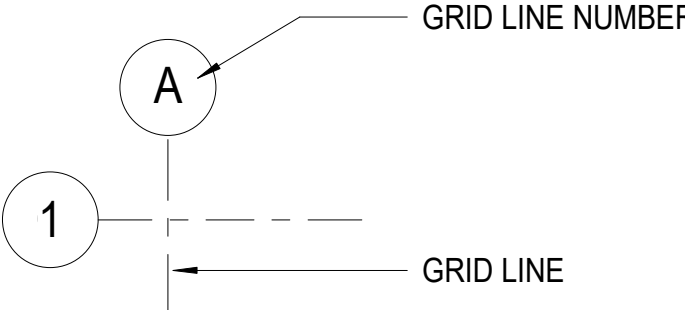
DRAWING TITLE



DETAIL REFERENCE



COLUMN CENTERLINES



APPLICABLE CODES

LIST OF 2019 CALIFORNIA CODE OF REGULATIONS (C.C.R.): APPLICABLE CODES AS OF JANUARY 1, 2020

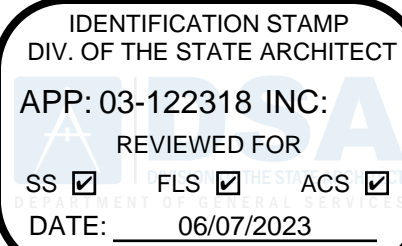
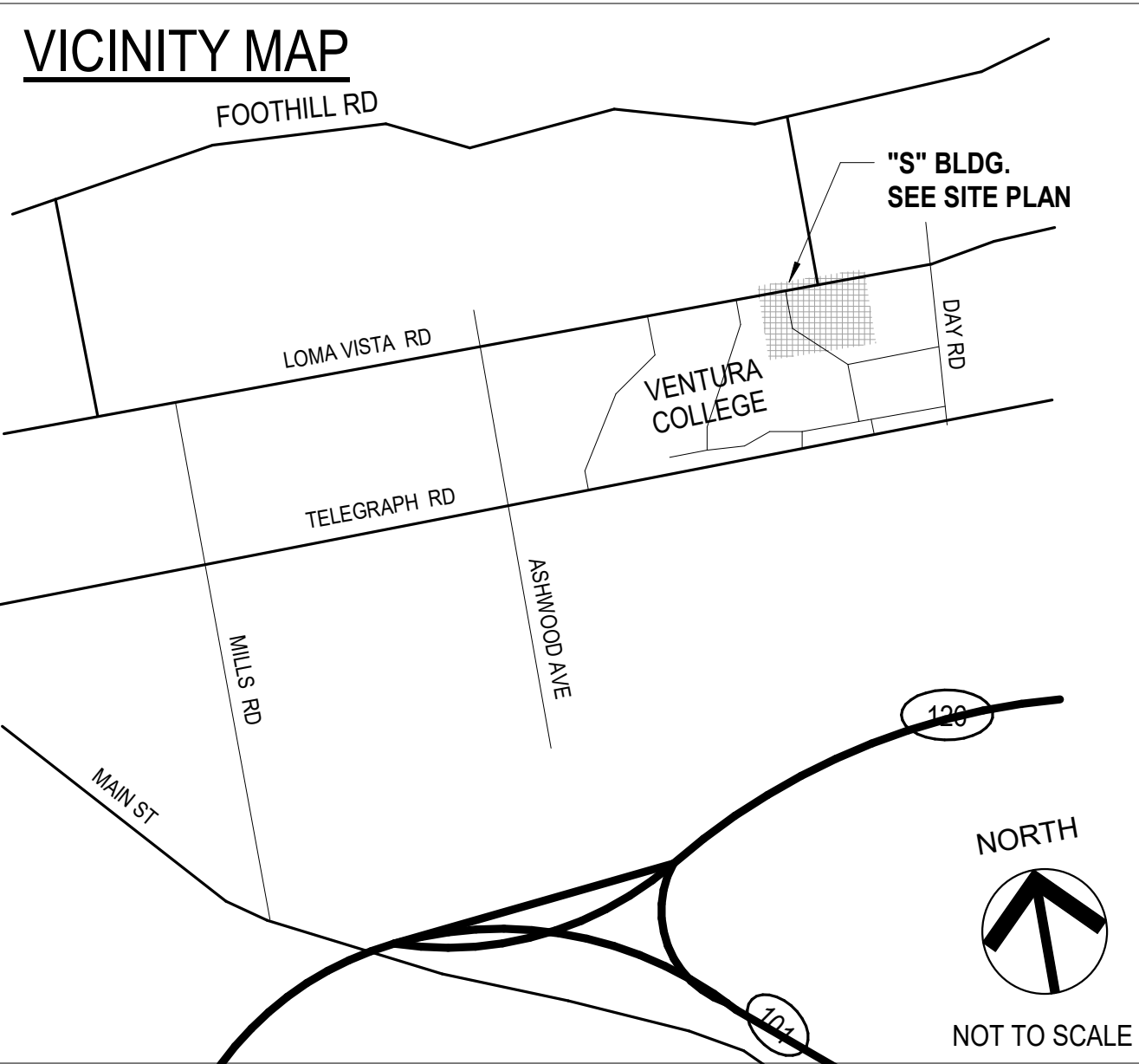
PART 1-	2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2-	2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
PART 3-	2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2018 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
PART 4-	2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 5-	2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
PART 6-	2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.
PART 7-	CURRENTLY VACANT
PART 8-	CURRENTLY VACANT
PART 9-	2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
PART 10-	2019 CALIFORNIA EXISTING BUILDING CODE (2018 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
PART 11-	2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.
PART 12-	2019 CALIFORNIA REFERENCE STANDARDS CODE, TITLE 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2019 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAP. 35

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) 2016 EDITION

DEPARTMENT OF JUSTICE REGULATIONS FOR TITLE II OF THE AMERICANS WITH DISABILITIES ACT OF 1990 WITH REVISED REGULATIONS AS PUBLISHED IN THE FEDERAL REGISTER ON SEPTEMBER 15, 2010, EFFECTIVE MARCH 15, 2012. TITLED ADA STANDARDS FOR ACCESSIBLE DESIGN.

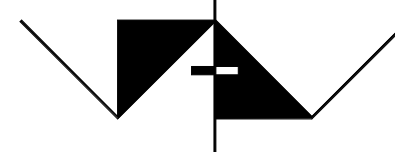


PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



**AMADOR WHITTLE
ARCHITECTS, INC.**

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

TITLE SHEET

PROJECT NO.	21-VCCCD-005	PROJECT ARCH.	WJA
DRAWN.	MC	CHECKED:	WJA

SHEET NUMBER:

G001

DATE: 02/25/2022

SHEET: ____ OF ____

GENERAL NOTES

1. INTERPRETATION OF CONSTRUCTION DOCUMENTS
A. ALL INFORMATION DEPICTED IN THESE DRAWINGS AND RELATIVE TO EXISTING CONDITIONS IS BASED ON THE BEST AVAILABLE DATA AT THE TIME THESE CONSTRUCTION DOCUMENTS WERE BEING EXECUTED, BUT WITHOUT GUARANTEE OF ACCURACY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND SHALL REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO COMMENCING ANY WORK.

B. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED RESULTING FROM THE REMOVAL OR REPLACEMENT OF WORK INSTALLED WITHOUT PROPER COORDINATION TO ALL OTHER TRADES, AND/OR PRIOR TO OBTAINING CLARIFICATION FROM THE ARCHITECT WHERE CONFLICTING INFORMATION EXISTS ON THE DRAWINGS.

C. THE CONTRACTOR SHALL FURNISH ALL BIDDERS WITH A COMPLETE SET OF CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO DRAWINGS, SPECIFICATIONS AND ADDENDUMS.

D. ALL BIDS AND LINE ITEM COSTS SUBMITTED BY THE CONTRACTOR IN CONJUNCTION WITH HIS SUBCONTRACTORS ARE CONSIDERED TO INCLUDE COMPLETE COORDINATION BETWEEN THE VARIOUS DISCIPLINES AS WELL AS ALL OTHER REQUIREMENTS OF THESE CONSTRUCTION DOCUMENTS, INCLUDING BUT NOT LIMITED TO CODE AND PUBLIC UTILITY REQUIREMENTS. FURTHER, WHERE THERE ARE CONFLICTING SOLUTIONS IN THE CONSTRUCTION DOCUMENTS AND BID OR LINE ITEM COST IS SUBMITTED BY THE CONTRACTOR WITHOUT ANY FORMAL WRITTEN REQUEST FOR CLARIFICATION PRIOR TO BID OPENING, ALL SUCH ITEMS WILL BE CONSIDERED TO INCLUDE THE MOST EXPENSIVE OF THE POSSIBLE SOLUTIONS DEPICTED IN THE CONSTRUCTION DOCUMENTS.

E. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT AND DSA.
2. CONTRACTOR SHALL VISIT THE SITE TO INVESTIGATE AND VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS AT JOB SITE PRIOR TO START OF WORK.
3. ALL DIMENSIONS INDICATED ARE BELIEVED TO BE ACCURATE, BUT ARE NOT GUARANTEED TO BE SO. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT. COORDINATE WITH EXISTING CONDITIONS WHERE INSUFFICIENT DETAIL DIMENSIONS ARE AVAILABLE. ALL DIMENSIONS ARE TO FINISHED FACE OF CONSTRUCTION OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE. DIMENSIONS NOTED AT "CLR" (CLEAR) ARE NOT ADJUSTABLE WITHOUT ARCHITECT'S APPROVAL.
4. DIMENSIONS SHOWN SHALL HAVE PREFERENCE OVER SCALE.
5. ALL ITEMS INCLUDING BUILDINGS SHOWN ARE NEW UNLESS NOTED AS EXISTING (E).
6. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING PIPELINES AND UTILITIES THAT ARE TO REMAIN IN SERVICE. CONTRACTOR SHALL VERIFY THAT THOSE PIPELINES AND UTILITIES TO BE REMOVED HAVE BEEN DISCONNECTED, SHUT DOWN OR ABANDONED PRIOR TO ATTEMPTING REMOVAL OR DEMOLITION IN A MANNER TO AVOID ANY DISRUPTION OF EXISTING FACILITIES.
7. CONTRACTOR SHALL PROTECT ALL SURFACES & FIXTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
8. ALL DAMAGE DONE TO EXISTING CONSTRUCTION AS A RESULT OF DEMOLITION OR INSTALLATION SHALL BE COMPLETELY REPAIRED BY CONTRACTOR AT OR NO COST TO OWNER. REPAIRED WORK SHALL MATCH EXISTING CONSTRUCTION.
9. CONTRACTOR SHALL REPAIR AND PATCH UP ALL DAMAGES TO EXISTING SURFACES CAUSED BY REMOVAL OF EXISTING EQUIPMENT ATTACHED TO EXISTING SURFACES. (CHALKBOARDS, BOOKSHELVES, TACKBOARDS, WALL HEATERS, PIPING, ETC.)
10. WHERE PATCHES ARE REQUIRED IN EXISTING, SURFACES ADJACENT MATERIAL SHALL BE MATCHED IN TEXTURE AND FINISH.
11. "DEMOLISH" AND "REMOVE" SHALL MEAN TO DEMOLISH, REMOVE FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER UNLESS NOTED OTHERWISE. TERMINATE PIPING BELOW SUBSTRATE FOR PATCHING. ELECTRICAL WIRE DISCONNECT SHALL BE AT THE SOURCE OF POWER.
12. SALVAGED PRODUCTS SAVED FOR OWNER AS A RESULT OF DEMOLITION ACTIVITY AND/OR PRODUCTS STORED FOR USE IN CONSTRUCTION SHALL BE STORED IN A MANNER SUCH THAT NO MATERIALS ARE DAMAGED AND PUBLIC SAFETY IS MAINTAINED.
13. CONTRACTOR SHALL THOROUGHLY CLEAN AND SECURE THE AREA OF CONSTRUCTION AFTER EACH DAY OF WORK. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS OFF SITE.
14. LOCATIONS OF STRUCTURES, UNDERGROUND PIPELINES AND UTILITIES WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PIPELINES AND UTILITIES BEFORE COMMENCING DEMOLITION, EARTHWORK OR CONSTRUCTION WORK.
15. GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO START OF CONSTRUCTION. ALL QUESTIONS SHALL BE SENT TO ARCHITECT.
16. ALL SALVAGEABLE MATERIALS AND EQUIPMENT TO BE REMOVED SHALL REMAIN THE SOLE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL CONSULT WITH THE OWNER CONCERNING STORAGE AND/OR DISPOSAL OF SUCH EQUIPMENT. OWNER HAS FULL SALVAGE RIGHTS. ALL REMOVED MATERIALS OTHER THAN ITEMS TO BE SALVAGED, OR REUSED SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE PROJECT SITE.
17. ALL WORK, INCLUDING REMOVAL OF EXISTING WORK, SHALL BE PERFORMED IN A MANNER THAT MINIMIZES THE AMOUNT OF NOISE, DUST, TRAFFIC AND/OR OTHER FORMS OF DISTURBANCES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES SO THAT THE PUBLIC, STUDENTS AND STAFF, AS WELL AS OTHER OCCUPIED AREAS OF THE SCHOOL ARE SUBJECTED TO AS LITTLE DISRUPTION AS REASONABLY POSSIBLE.
18. ROUTES OF INGRESS AND EGRESS FOR MATERIALS AND WORKMEN, AND LIMITS OF THE PROJECT AREA WILL BE DESIGNATED BY THE OWNER. THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES WITHIN SUCH LIMITS. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ADEQUATE SAFETY AND DUST BARRIERS IN THE SITE, ACROSS CORRIDORS AND ELSEWHERE AS REQUIRED.

GENERAL NOTES

19. SHUT DOWN OF EXISTING AND OPERATING PLUMBING, MECHANICAL AND ELECTRICAL SYSTEMS OR PORTIONS THEREOF SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.
20. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THE ARCHITECTURAL DRAWINGS WITH THE SPECIFICATIONS AND THE WORK SHOWN ON THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY RELATED WORK.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIRE RATING CONTINUITY OF STRUCTURE, WALLS, FLOOR AND CEILINGS INTERRUPTED BY THE WORK OF ALL TRADES. THIS INCLUDES, BUT IS NOT LIMITED TO, FIRE RATED ENCLOSURES AT THE CEILING AND WALLS OF CORRIDORS AND STORAGE ROOMS, DUCT SHAFTS.
22. PROVIDE ALL NECESSARY BLOCKING, BACKING AND FRAMING FOR LIGHT FIXTURES, ELECTRICAL UNITS, A/C EQUIPMENT, TOILET FIXTURES & ACCESSORIES, RAILINGS, GRAB BARS, AND ALL OTHERS REQUIRING SAME.
23. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.
24. WHERE NEW WALLS ALIGNS WITH EXISTING WALL, PROVIDE SMOOTH INVISIBLE TRANSITION BETWEEN NEW AND EXISTING.
25. NEW GYPSUM BOARD FINISH SHALL BE 5/8" TYPE 'X' OR AS REQUIRED FOR UL FIRE-RATING AS INDICATED ON DRAWINGS.
26. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY EIGHT (8) FEET HIGH CHAIN LINK FENCE BARRICADES AT WORK AREAS, DISTRICT APPROVED STORAGE AREAS AND WHEREVER NECESSARY TO MAINTAIN A SAFE PASSAGE AND SAFE ENVIRONMENT.
27. BEFORE PROCEEDING WITH THE CORING OR CUTTING OF WALLS AND FLOORS, ETC., THE CONTRACTOR SHALL PREPARE LAYOUT OF CUTTING OR CORING AND SHALL HAVE THE APPROVAL BY THE STRUCTURAL ENGINEER AND THE D.S.A. FIELD DISTRICT ENGINEER IN ORDER TO PROCEED WITH THE CUTTING OR CORING.
28. A) SLABS ON EARTH, SIDEWALKS AND CURBS: 3,000 PSI AT 28 DAYS
29. B) FOUNDATIONS: 3,000 PSI AT 28 DAYS
30. THE CONTRACTOR SHALL NOT COMMENCE THE WORK, IN PART OR IN FULL, PRIOR TO OBTAINING THE NOTICE-TO-PROCEED (NTP) FROM VCCCD.
31. IN CASE OF CONFLICT, THE MORE EXPENSIVE CONSTRUCTION MEANS AND METHOD SHALL BE USED.
32. THE PROVISIONS OF CFC CHAPTER 14 AND CBC CHAPTER 33 SHALL BE ENFORCED ON THIS PROJECT.

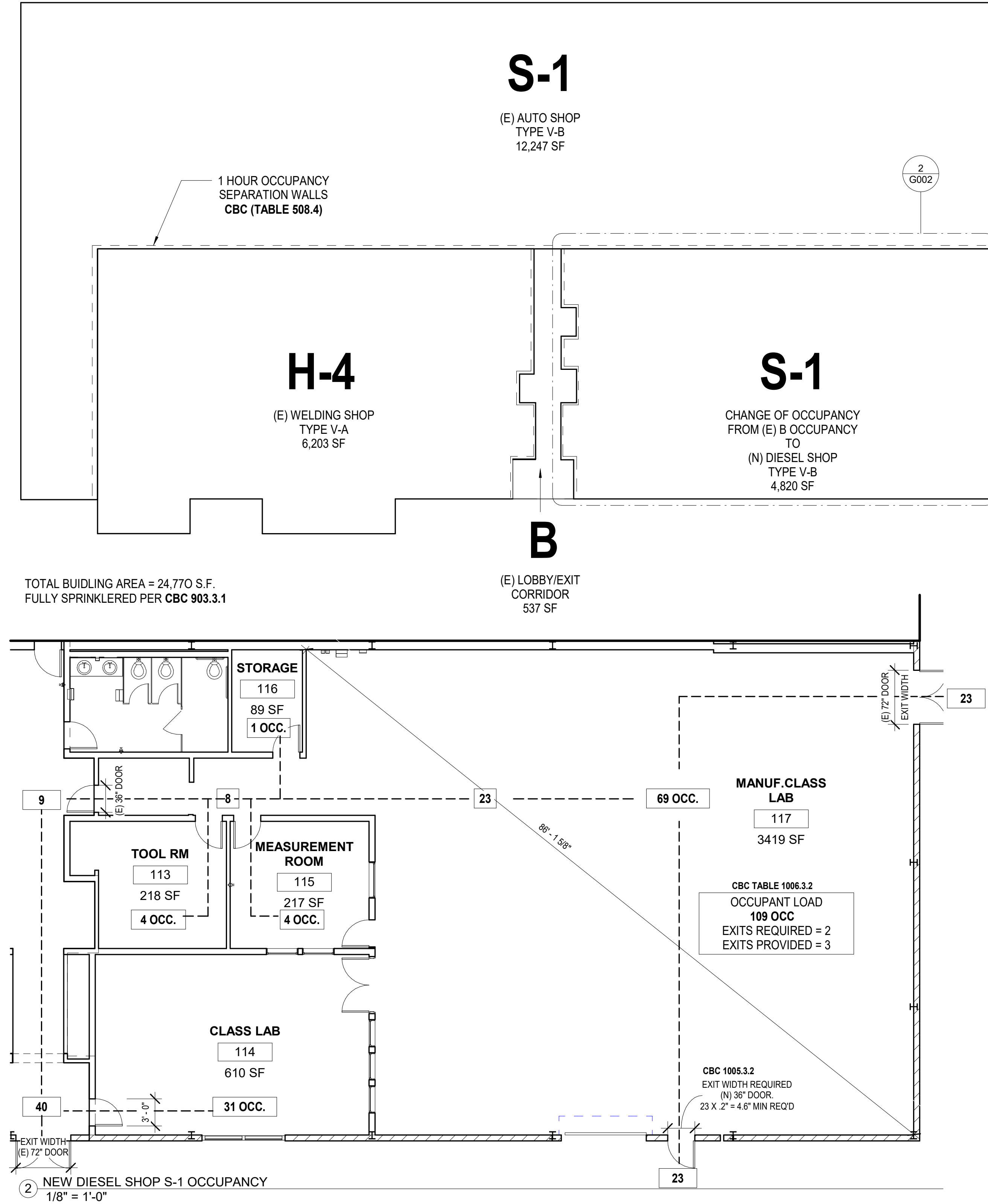
DSA GENERAL NOTES

1. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
2. A 'DSA CERTIFIED' PROJECT INSPECTOR WITH CLASS 1 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
3. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
4. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
5. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
6. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
7. A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).

DSA GENERAL NOTES

1. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
2. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
3. MECHANICAL SYSTEM ACCEPTANCE TESTS SHALL BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
4. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
5. A LISTING OF CERTIFIED ATT CAN BE FOUND AT: [HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TESTS-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE](https://www.energy.ca.gov/programs-and-topics/programs/acceptance-tests-technician-certification-provider-program/acceptance).
6. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
7. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TEST HAVE BEEN COMPLETED

CODE ANALYSIS



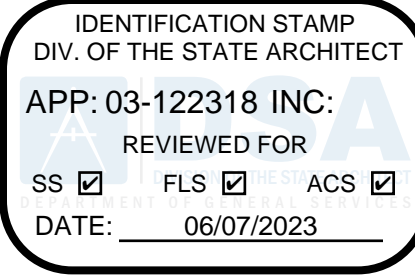
CBC CHAPTER 10 TABLE 1004.5

ROOM NAME	OCC. LOAD FACTOR	SF	OCCUPANT LOAD
TOOL ROOM	50 NET /	218 SF	= 5 OCCUPANTS
MEASUREMENT RM	50 NET /	217 SF	= 5 OCCUPANTS
STORAGE	300 GROSS /	89 SF	= 1 OCCUPANT
CLASS LAB	20 NET /	610 SF	= 31 OCCUPANTS
MANUF. CLASS LAB	50 NET /	3419SF	= 69 OCCUPANTS
TOTAL:			= 111 OCCUPANTS

MIXED OCCUPANCY AREA CALCULATION

CBC 506.2.2, TABLE 506.2 AND 508.4.2

(E) WELDING SHOP H-4, TYPE V-A (S1)	ACTUAL AREA 6,203 SF	ALLOWABLE AREA 72.00 SF	=.086
(E) AUTO SHOP S-1, TYPE V-B (S1)	ACTUAL AREA 12,247 SF	ALLOWABLE AREA 36,000 SF	=.340
(E) LOBBY/EXIT CORRIDOR B, TYPE V-B (S1)	ACTUAL AREA 537 SF	ALLOWABLE AREA 36,000 SF	=.015
(N) DIESEL SHOP S-1, TYPE V-B (S1)	ACTUAL AREA 4,820 SF	ALLOWABLE AREA 36,000 SF	=.134
			0.575 < 1.0

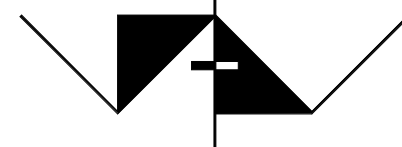


PROJECT TITLE

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



AMADOR WHITTLE
ARCHITECTS, INC.

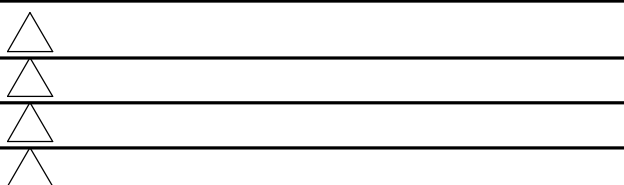
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3838 , (818) 874-0071

CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023



SHEET TITLE:

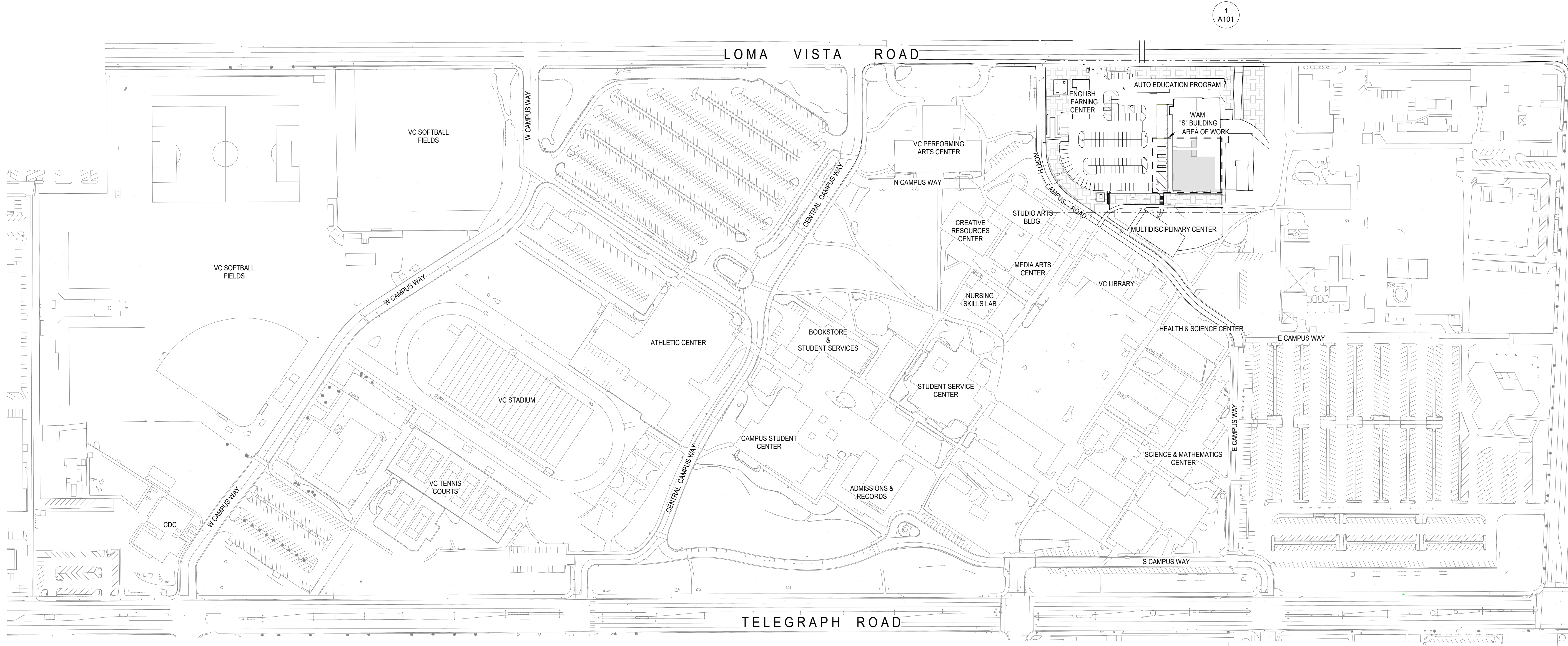
GENERAL &
ACCESSIBILITY
NOTES & CODE
ANALYSIS

PROJECT NO.	21-VCCCD-005	PROJECT ARCH	WJA
DRAWN	MC	CHECKED	WJA

SHEET NUMBER:

G002

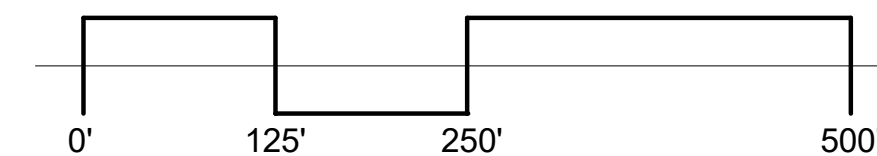
DATE: 02/25/2022 SHEET: ____ OF ____



1 CAMPUS SITE PLAN
1" = 125'-0"

LEGEND

	A#	CERTIFICATE STATUS
ADM- ADMINISTRATION	A#15677; 27140	-
AEC- ATHLETIC EVENT CENTER	A#11580	-
AEP- AUTO EDUCATION PROGRAM	A-14624; A-21069; A-28512	APPROVED 06/11/1956; 03/09/1961
ASC- APPLIED SCIENCE CENTER	A#114511	-
BGS- BOOKSTORE & CAMPUS SERVICES	-	-
BLDG S- BUILDING S (WAM)	A#11482; 03-110238;	APPROVED 01/15/1954
C- KINESIOLOGY	-	-
CDC- CHILD DEVELOPMENT CENTER	A#53955	-
CRC- CREATIVE RESOURCES CENTER	A#23750	-
CSC- CAMPUS STUDENT CENTER	A#10764; 26943	-
DRC- DAY ROAD CENTER	-	-
ECT- ENVIRONMENTAL/CONSTRUCTION TECHNOLOGY	-	-
ELC- ENGLISH LEARNING CENTER (FORMALLY KNOWN AS DATA PROCESSING UNIT D-P)	A# 26592; 23724;	APPROVED 08/04/1965
EOP- EOPS	A#39845	-
GH- GUTHRIE HALL	A#51118	-
HSC- HEALTH SCIENCE CENTER	-	-
HH- HEAD HOUSE	-	-
LRC- LEARNING RESOURCE CENTER	A#104598, 104498	-
M- CERAMICS & SCULPTURE	-	-
MAC- MEDIA ARTS CENTER	A#27982; 36633	-
M&O- MAINTENANCE & OPERATIONS	-	-
MCE- MULTIDISCIPLINARY CENTER EAST	-	-
MCW- MULTIDISCIPLINARY CENTER WEST	-	-
NMG- NEW MEDIA GALLERY	-	-
PAC- PERFORMING ARTS CENTER	A#23750; 44935; 45630	-
SAB- STUDIO ARTS BUILDING	A#11482	-
SC- SCIENCES & MATHEMATICS	A#60113	-
SSC- STUDENT SERVICES CENTER	A#10623	-
S&R- SHIPPING & RECEIVING/WAREHOUSE	-	-
TR 4- CLASSROOM	-	-
TR12-15- TRAILER CLASSROOMS	A#03-110740	-
TR 16- NURSING SKILLS LAB	A#03-110740	-
VCS- VENTURA COLLEGE SPORTSPLEX	-	-
VCPD- VENTURA COLLEGE CAMPUS POLICE	-	-
WEC- WRIGHT EVENT CNETER	-	-



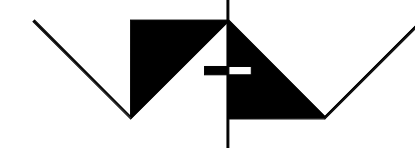
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE AND LOCATION

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



AMADOR WHITTLE
ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3838 , (818) 874-0071

CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

CAMPUS SITE PLAN

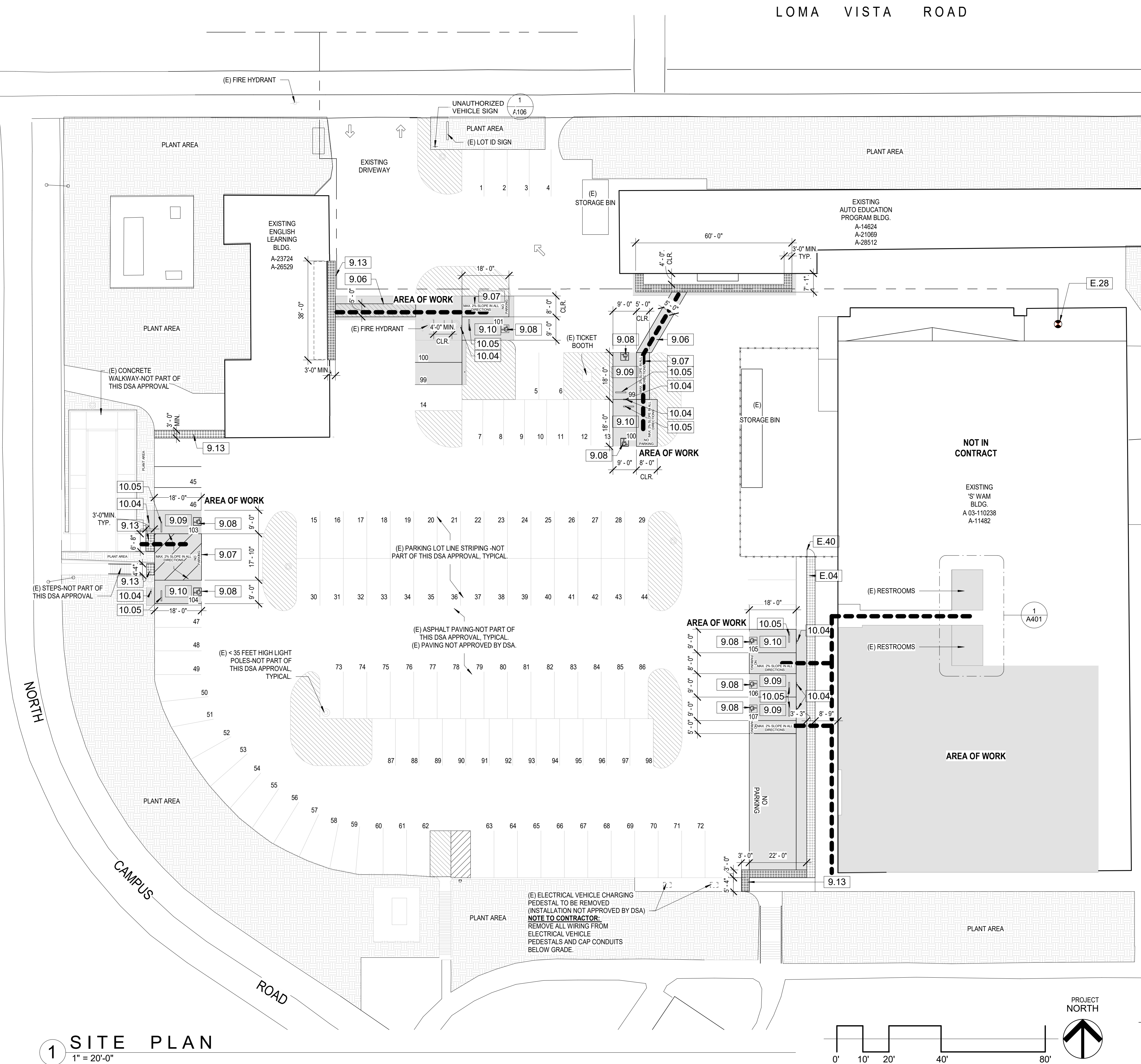
PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA
DRAWN: MC CHECKED: Checker

SHEET NUMBER:

A100

DATE: 02/25/2022

SHEET: ____ OF ____



GENERAL NOTES

1. "DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT." (DSA PR15-01)
2. ALL ITEMS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW.

EXISTING KEYNOTES

- E.04 (E) 3'-0" WIDE TRUNCATED DOME TACTILE WARNING PAVERS. SEE A# 03-110238.
- E.28 (E) FIRE SPRINKLER SYSTEM RISER. A# 03-110238. SEE P3.0.
- E.40 (E) NON ACCESSIBLE SERVICE GATE.

KEYNOTES

- 9.06 (N) NO PARKING WHITE BORDER STRIPING.PER 6/G003.
- 9.07 (N) ACCESSIBLE AISLE PAINTED BLUE 4" WIDE BORDERLINE AND HATCHED LINES AT 36" MAX. O.C. 8" WIDE X LENGTH OF STALL.PER 6/G003.
- 9.08 (N) ADA COMPLIANT INTERNATIONAL SYMBOL OF ACCESSIBILITY 36" X 36" PER 2/A106
- 9.09 (N) ACCESSIBLE PARKING STALL PER 6/G003.
- 9.10 (N) ACCESSIBLE VAN PARKING STALL PER 6/G003.
- 9.13 (N) TRUNCATED DOME 3" WIDE. SEE 4/A106.
- 10.04 (N) ACCESSIBLE PARKING STALL SIGN.SEE 5/A106.
- 10.05 (N) CONCRETE WHEEL STOP PER ACCESSIBLE PARKING STALL.SEE 3/A106.

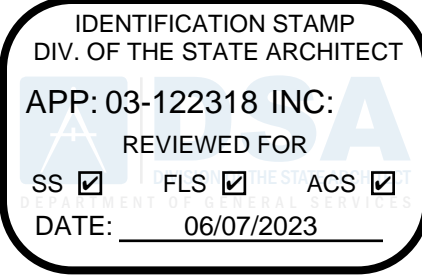
PARKING COUNT

	PROVIDED	REQUIRED
ACCESSIBLE PARKING STALL	04	04
ACCESSIBLE VAN PARKING STALL	04	01
PARKING STALL	98	
TOTAL PARKING STALLS	106	

LEGEND

ACCESSIBLE PATH OF TRAVEL	-----
AREA OF WORK	■
(E) BLDGS NOT PART OF SCOPE OF WORK	□
(E) PIPING LOCATION	- - - - -
(E) LIGHT POLES	○
(E) FENCE	*****
WHITE "NO PARKING" STRIPING	▨

PATH OF TRAVEL, TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTE
"ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FORM THE WALL, ABOVE 27" AND LESS THAN 80" ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL."



PROJECT TITLE

21-VCCCD-005- VENTURA COLLEGE DIESEL SHOP

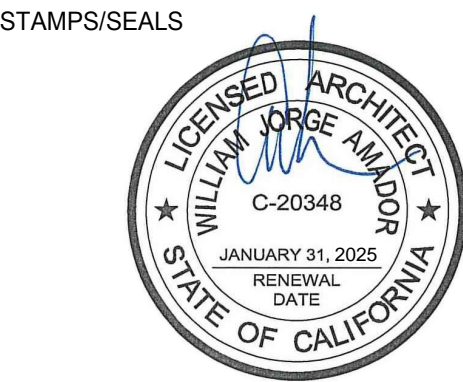
4667 TELEGRAPH RD. VENTURA, CA 93003

COMMISSIONED ARCHITECT

AMADOR WHITTLE ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

CONSULTANT



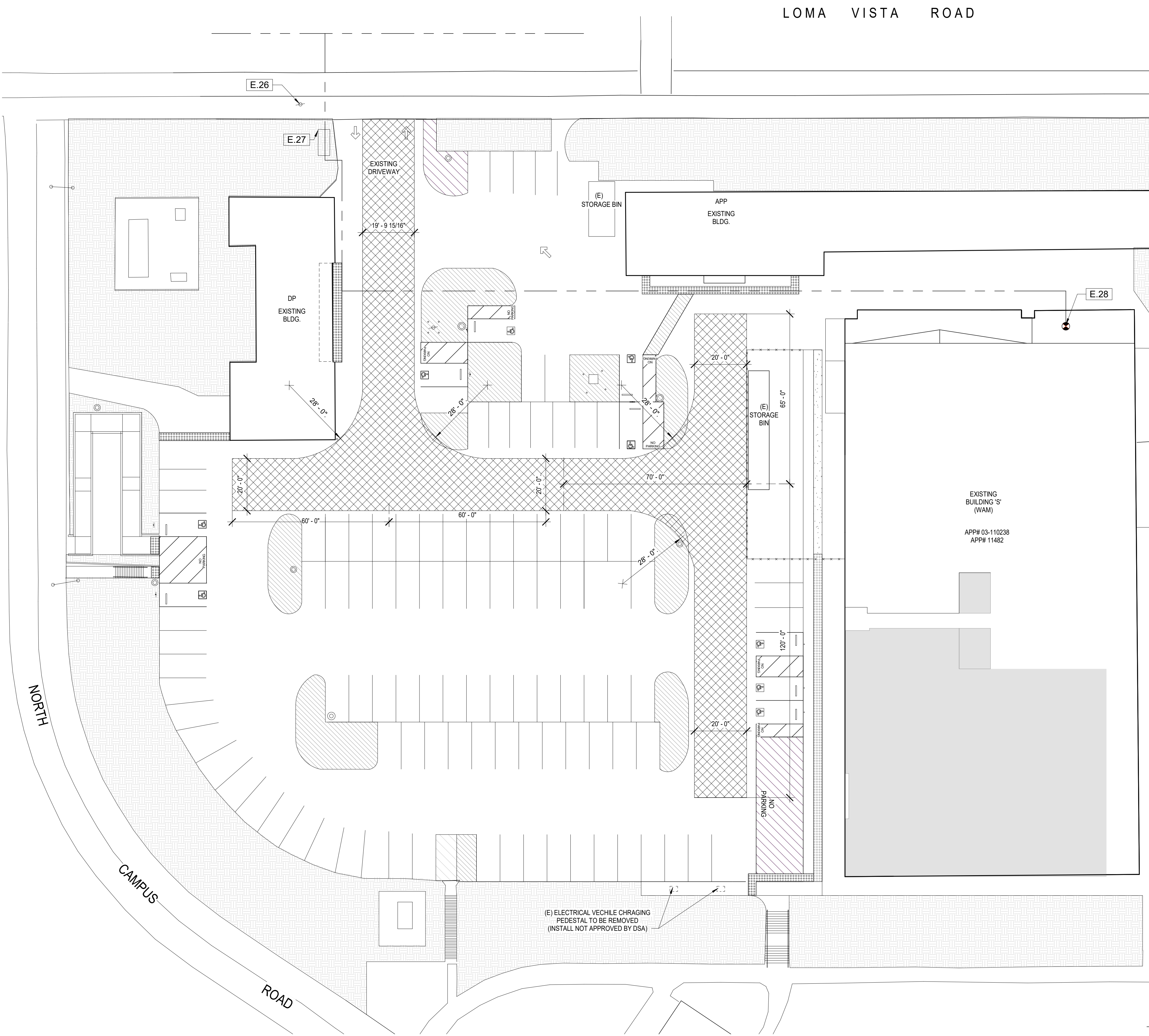
DSA_V3 SUBMITTAL 04/19/2023

SITE PLAN

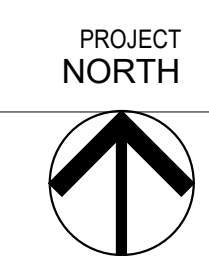
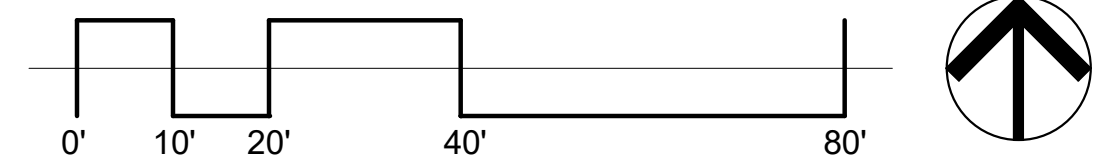
PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA
DRAWN: MC CHECKED: WJA
SHEET NUMBER:

A101

DATE: 02/25/2022 SHEET: OF



1 SITE PLAN
1" = 20'-0"



FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1-3 below is to be provided for all project types indicated above. Information associated with items 4-7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 and 2 are to be imaged on the fire access site plan. For additional information refer to the instructions at the end of this form and [DSA Policy 09-01](#).

PROJECT INFORMATION			
School District/Owner: <u>Ventura County Community College</u>			
Project Name/School: <u>Ventura Diesel Shop Alteration</u>			
Project Address: <u>4667 Telegraph Rd. Ventura, Ca. 93003</u>			
FIRE & LIFE SAFETY INFORMATION			
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
3. Is the project located within a designated fire hazard severity zone as established by Cal-Fire? (If yes, indicate fire hazard zone classification below)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate <input type="checkbox"/>	High <input type="checkbox"/>	Very High <input type="checkbox"/>
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA <input type="checkbox"/>

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4. Emergency vehicle access roadways do not meet CFC requirements.				<input checked="" type="checkbox"/>	
4a. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.					
5. Fire Hydrants: Number and spacing does not meet CFC requirements.				<input checked="" type="checkbox"/>	
5a. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.					
6. Fire Hydrants: Water flow and pressure are less than CFC minimum.				<input checked="" type="checkbox"/>	
6a. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.					
7. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				<input checked="" type="checkbox"/>	
7a. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.					

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____
Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	<u>Ventura City Fire</u>
LFA Review Official:	<u>Brett Reed</u>
Title:	<u>Fire Marshal</u>
Work E-mail:	<u>breed@cityofventura.ca.gov</u>

EXISTING KEYNOTES #

- E.26 (E) FIRE HYDRANT. APP# 03-110238.
E.27 (E) WAM FIRE CONTROL VALVE. APP# 03-110238.
E.28 (E) FIRE SPRINKLER SYSTEM RISER. A# 03-110238. SEE P3.0.

LEGEND

- (N) FIRE ACCESS LANE
- AREA OF WORK
- (E) BLDGS NOT PART OF SCOPE OF WORK
- (E) PIPING LOCATION
- (E) FENCE
- (E) LIGHT POLES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE
21-VCCCD-005- VENTURA COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA, CA 93003

COMMISSIONED ARCHITECT

AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3838 , (818) 874-0071

CONSULTANT

STAMPS/SEALS

CITY OF VENTURA
FIRE PREVENTION DIVISION
VENTURA CITY FIRE DEPARTMENT
REVIEWED FOR CODE COMPLIANCE
10/06/2022
BY _____ DATE _____
THE STAMPING OF THIS PLAN SPECIFICATION CALCULATION SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE VIOLATION OF ANY PROVISIONS OF ANY LAW, ORDINANCE, OF REGULATION OF ANY CITY, COUNTY, STATE OR OTHER AGENCY HAVING JURISDICTION. IT IS UNLAWFUL TO MAKE ANY CHANGES OR DEVIATIONS FROM THE PLAN SPECIFICATION CALCULATION WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE PREVENTION DIVISION.

DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

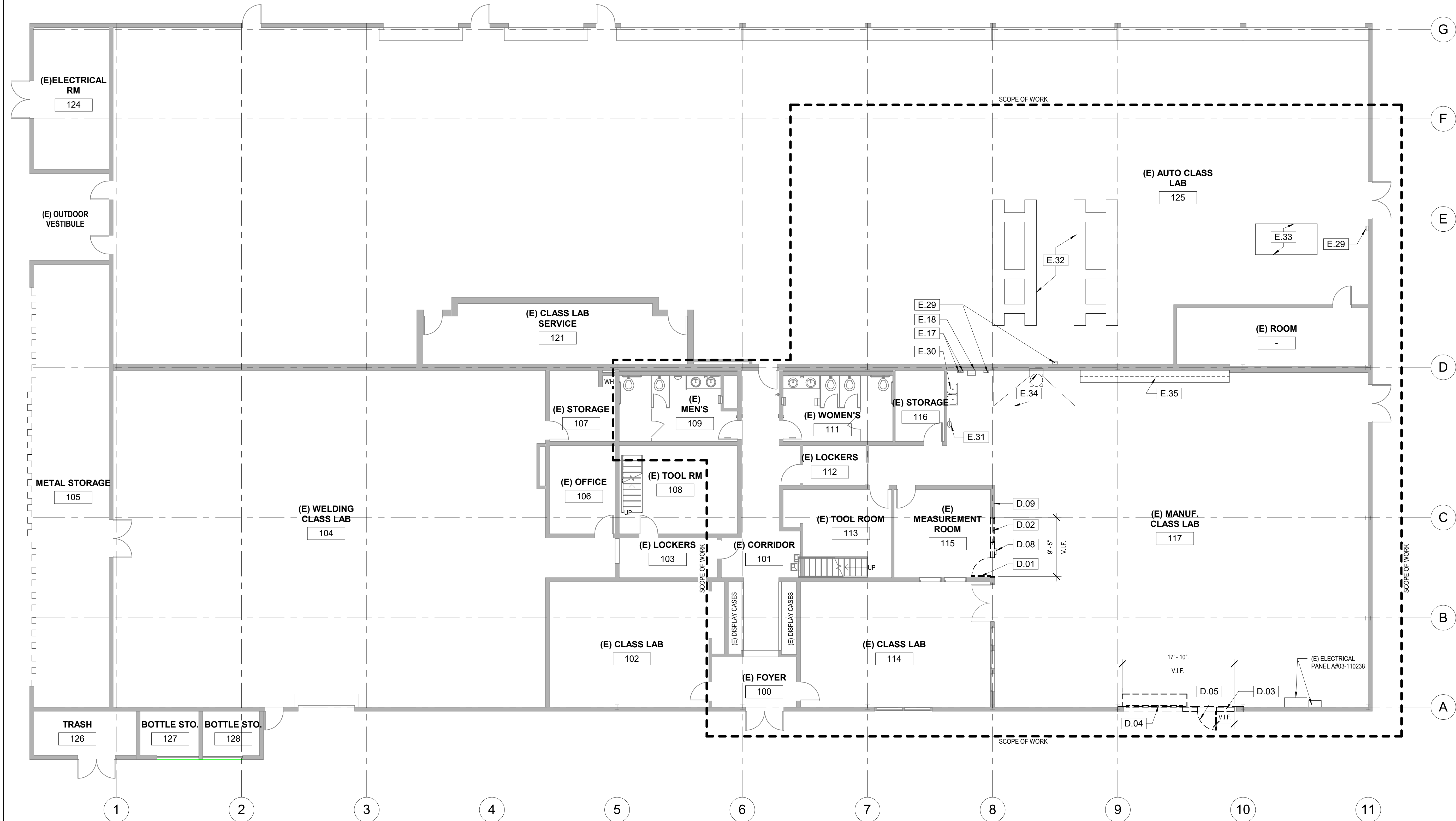
SITE PLAN - LOCAL FIRE AUTHORITY

PROJECT NO:	21-VCCCD-005	PROJECT ARCH:	WJA
DRAWN:	MC	CHECKED:	Checker

SHEET NUMBER:

A101F

DATE: 05/20/22 SHEET: ____ OF ____



1 FIRST FLOOR - DEMOLITION

1/8" = 1'-0"

DEMOLITION KEYNOTES

- D.01 DEMOLISH (E) DOOR
- D.02 DEMOLISH (E) WINDOW
- D.03 DEMOLISH PORTION OF (E) WALL. SEE STRUCTURAL DRAWINGS.
- D.04 DEMOLISH (E) ROLL UP GARAGE DOOR
- D.05 DEMOLISH (E) PERSONNEL DOOR
- D.08 REMOVE AND REUSED (E) ROOM SIGNAGE.
- D.09 DEMOLISH (E) FINISH.

EXISTING KEYNOTES

- E.17 (E) ACCESSIBLE SOAP DISPENSER. A# 03-110238
- E.18 (E) ACCESSIBLE TOWEL DISPENSER. A# 03-110238
- E.29 (E) FIRE EXTINGUISHER. A# 03-110238
- E.30 (E) ACCESSIBLE DOUBLE SINK. A# 03-110238
- E.31 (E) ACCESSIBLE EYEWASH. A# 03-110238
- E.32 (E) HYDRAULIC LIFTS TO REMAIN. A# 03-110238
- E.33 (E) SPX DYNAMOMETER TO REMAIN. A# 03-110238
- E.34 (E) HOT METAL EXHAUST HOOD TO REMAIN. A# 03-110238
- E.35 (E) UPPER & LOWER CABINETS TO REMAIN. 2'-10" COUNTER HEIGHT. A# 03-110238

GENERAL NOTES

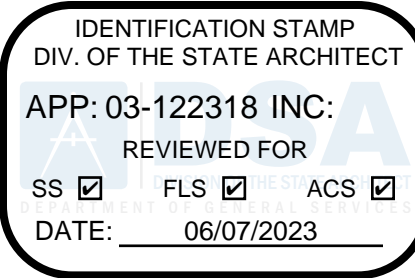
- ALL MATERIAL TO BE DEOMLISHED SHALL BE SALVAGED OR REMOVED IN ACCORDANCE TO THE OWNER.
- ALL ITEMS SHOWN ARE EXISITNG UNLESS OTHERWISE NOTED AS NEW.

LEGEND

- SCOPE OF WORK
- DEMO
- PATHWAY OF TRAVEL
WHITE 4 INCH WIDE
STRIPES AT PERIMETER
AND 18 INCHES ON
CENTER DIAGONALLY

WALL LEGEND

- EXISITNG TO REMAIN
- NEW CONSTRUCTION

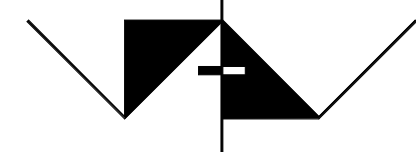


PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



**AMADOR WHITTLE
ARCHITECTS, INC.**

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

**DEMOLITION FLOOR
PLAN**

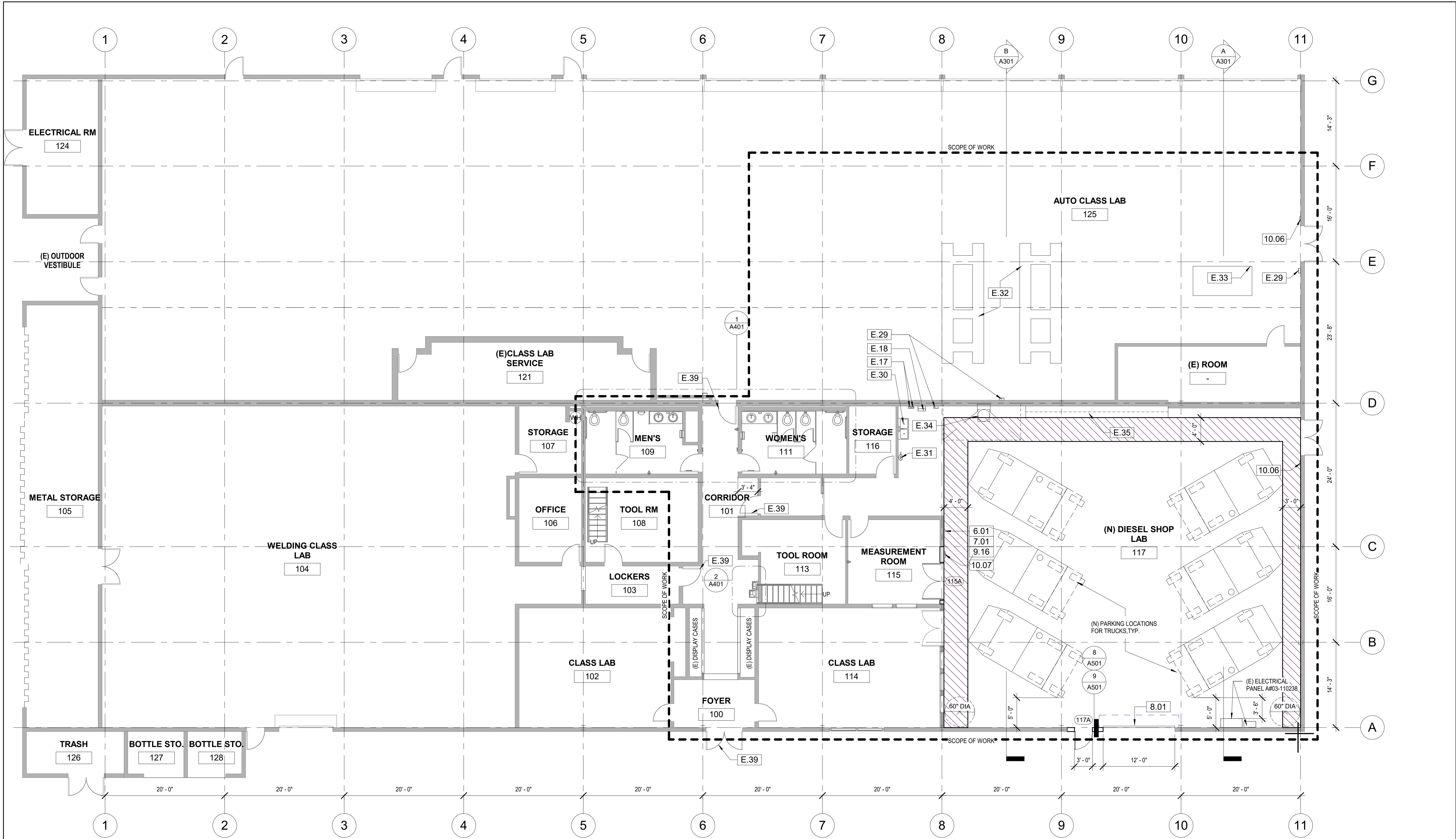
PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA
DRAWN: MC CHECKED: WJA

SHEET NUMBER:

A102

DATE: 02/25/2022

SHEET: OF



1 FIRST FLOOR - NEW
1/8" = 1'-0"

KEYNOTES #

- 6.01 RECONSTRUCT SHEAR WALL PER STRUCTURAL & REFERENCED A# 03-110238.
- 7.01 (N) R13 BATT INSULATION THICKNESS 3 5/8"
- 8.01 (N) INSULATED ROLL UP DOOR BY CORNELL.SEE A201 FOR HEIGHT DIMENSION. SEE 8/S300.
- 9.16 (N) 5/8" IMPACT RESISTANT GYPSUM BOARD,BOTH SIDES, PAINTED.
- 10.06 (N) ASSISTIVE-LISTENING SYSTEM AVAILABLE SIGN.SEE 9/G003.
- 10.07 (E) SIGN TO BE REMOUNTED AS LOCATED ON PLAN.

EXISTING KEYNOTES #

- E.17 (E) ACCESSIBLE SOAP DISPENSER. A# 03-110238
- E.18 (E) ACCESSIBLE TOWEL DISPENSER. A# 03-110238
- E.29 (E) FIRE EXTINGUISHER. A# 03-110238
- E.30 (E) ACCESSIBLE DOUBLE SINK. A# 03-110238
- E.31 (E) ACCESSIBLE EYEWASH. A# 03-110238
- E.32 (E) HYDRAULIC LIFTS TO REMAIN. A# 03-110238
- E.33 (E) SPX DYNAMOMETER TO REMAIN. A# 03-110238

- E.34 (E) HOT METAL EXHAUST HOOD TO REMAIN. A# 03-110238
- E.35 (E) UPPER & LOWER CABINETS TO REMAIN. 2'-10" COUNTER HEIGHT. A# 03-110238
- E.39 (E) ACCESSIBLE DOOR. A# 03-110238.

GENERAL NOTES

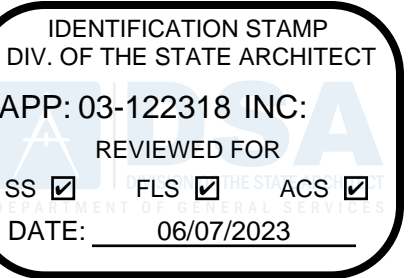
- ALL ITEMS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW.
- NOTE TO CONTRACTOR:** REQUIRED SHEAR WALL INDICATED ON A-03-110238, DOES NOT ACTUALLY EXIST. GENERAL CONTRACTOR TO CONSTRUCT SHEAR WALL TO COMPLY WITH REQUIREMENTS OF A03-110238.
- PAINT ALL NEW WORK AND EXISTING ADJACENT SURFACES TO NEXT VERTICAL OR HORIZONTAL BREAK IN PLANE. PAINTING SHALL CONSIST OF PRIMER AND TWO COATS OF FINISH. SEE 4/A501.

LEGEND

- SCOPE OF WORK
- DEMO
- PATHWAY OF TRAVEL
WHITE 4 INCH WIDE
STRIPES AT PERIMETER
AND 18 INCHES ON
CENTER DIAGONALLY

WALL LEGEND

- EXISTING TO REMAIN
- NEW CONSTRUCTION



PROJECT TITLE

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



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ARCHITECTS, INC.

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AGOURA HILLS, CA 91301
(805) 530-3838 (818) 874-0071

CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

NEW FLOOR PLAN

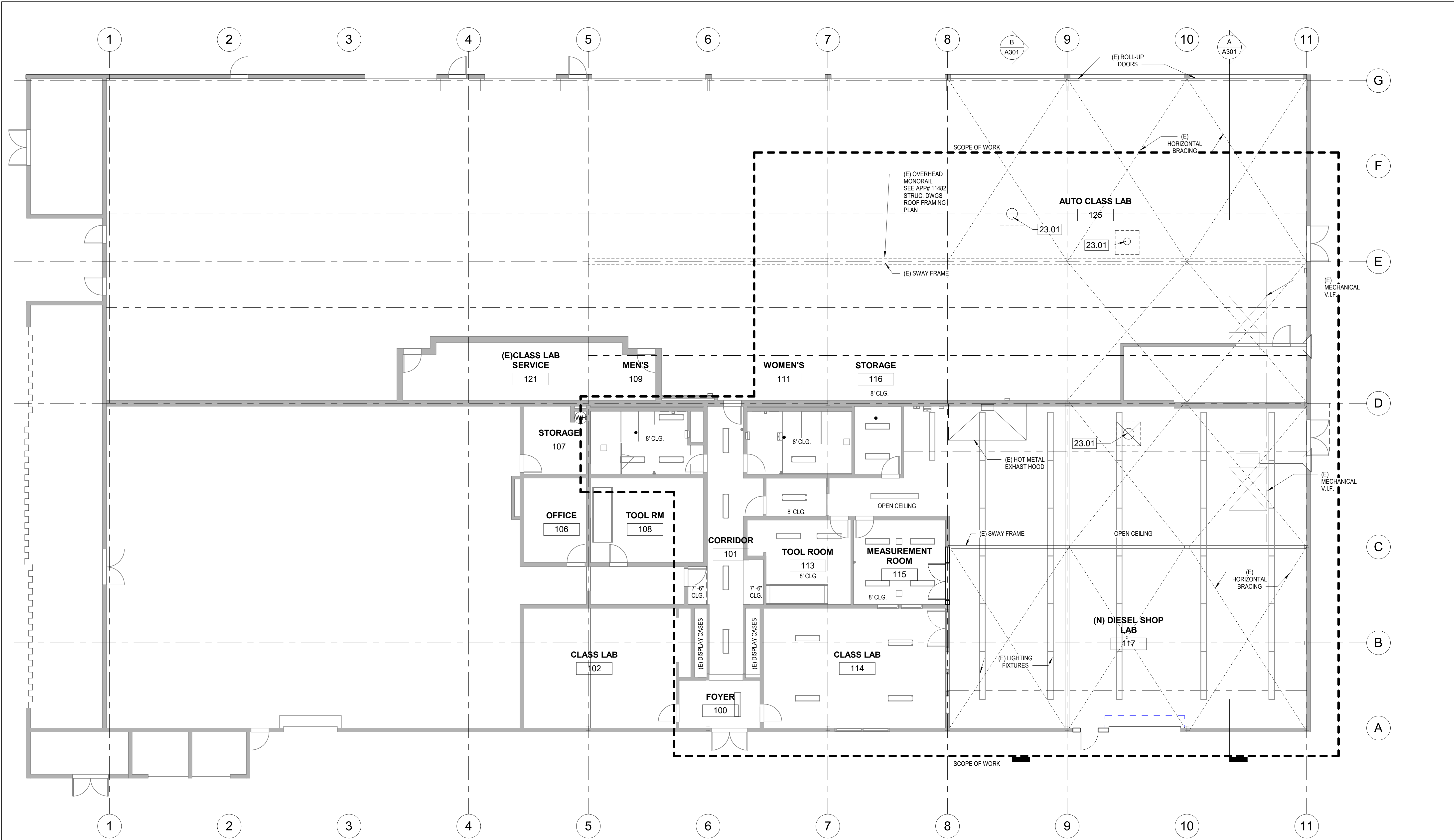
PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA
DRAWN: MC CHECKED: WJA

SHEET NUMBER:

A103

DATE: 02/25/2022

SHEET: OF



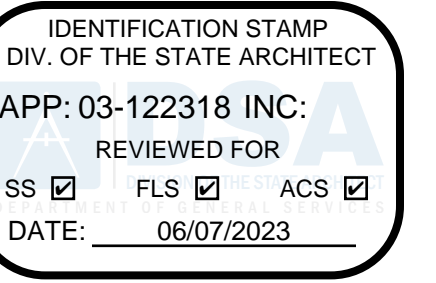
1 FIRST FLOOR - REFLECTED CEILING PLAN - EXISTING
1/8" = 1'-0"

KEYNOTES

23.01 (N) EXHAUST FAN LOCATION. SEE MECHANICAL.

GENERAL NOTES

1. VERIFY IN FIELD ALL MECHANICAL AND ELECTRICAL FOR LOCATIONS OF CONDUITS AND VENT PENETRATIONS.
2. UPGRADING EXISTING LIGHTING FIXTURES WITHIN SCOPE TO LED LIGHTING.
3. ALL ITEMS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW.

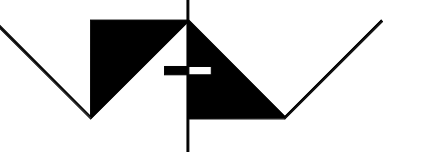


PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



**AMADOR WHITTLE
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CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

**REFLECTED CEILING
PLAN**

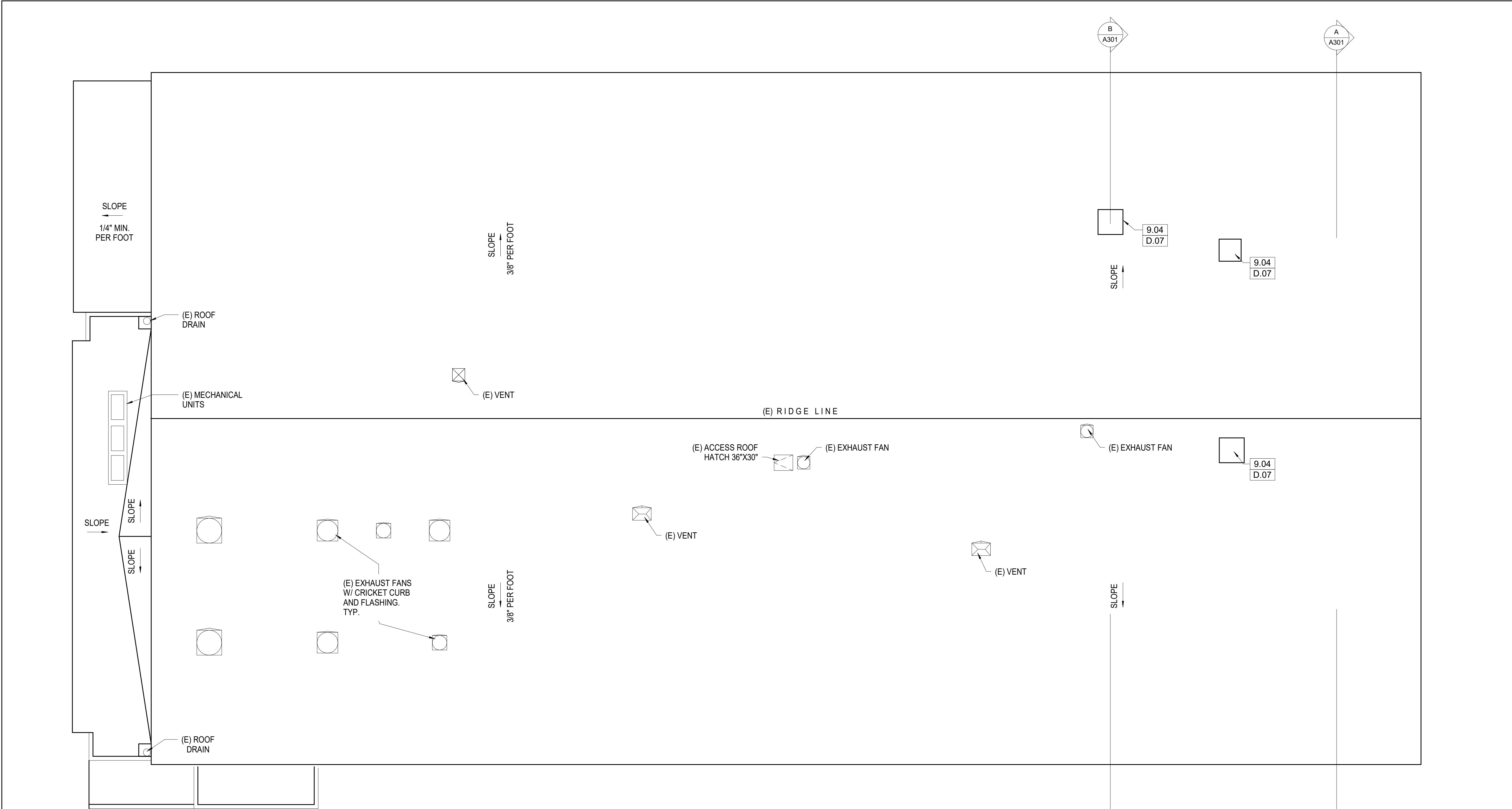
PROJECT NO.	21-VCCCD-005	PROJECT ARCH.	WJA
DRAWN	MC	CHECKED	WJA

SHEET NUMBER:

A104

DATE: 02/25/2022

SHEET: ____ OF ____



1 ROOF PLAN
1/8" = 1'-0"

KEYNOTES #

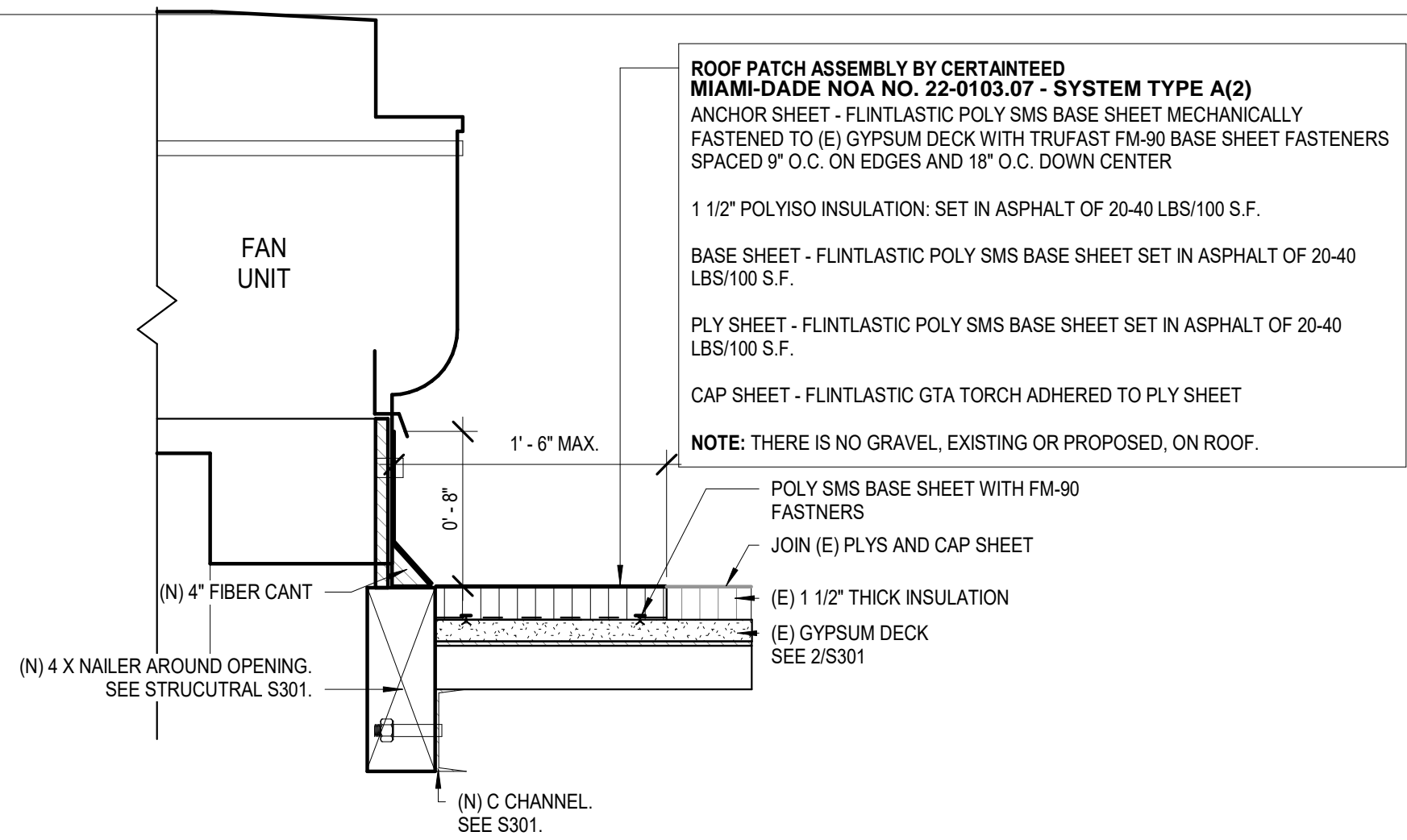
9.04 PATCH ROOF AND FINISH TO MATCH (E).SEE DETAIL 2/A105 & 3/A105.

DEMOLITION KEYNOTES #

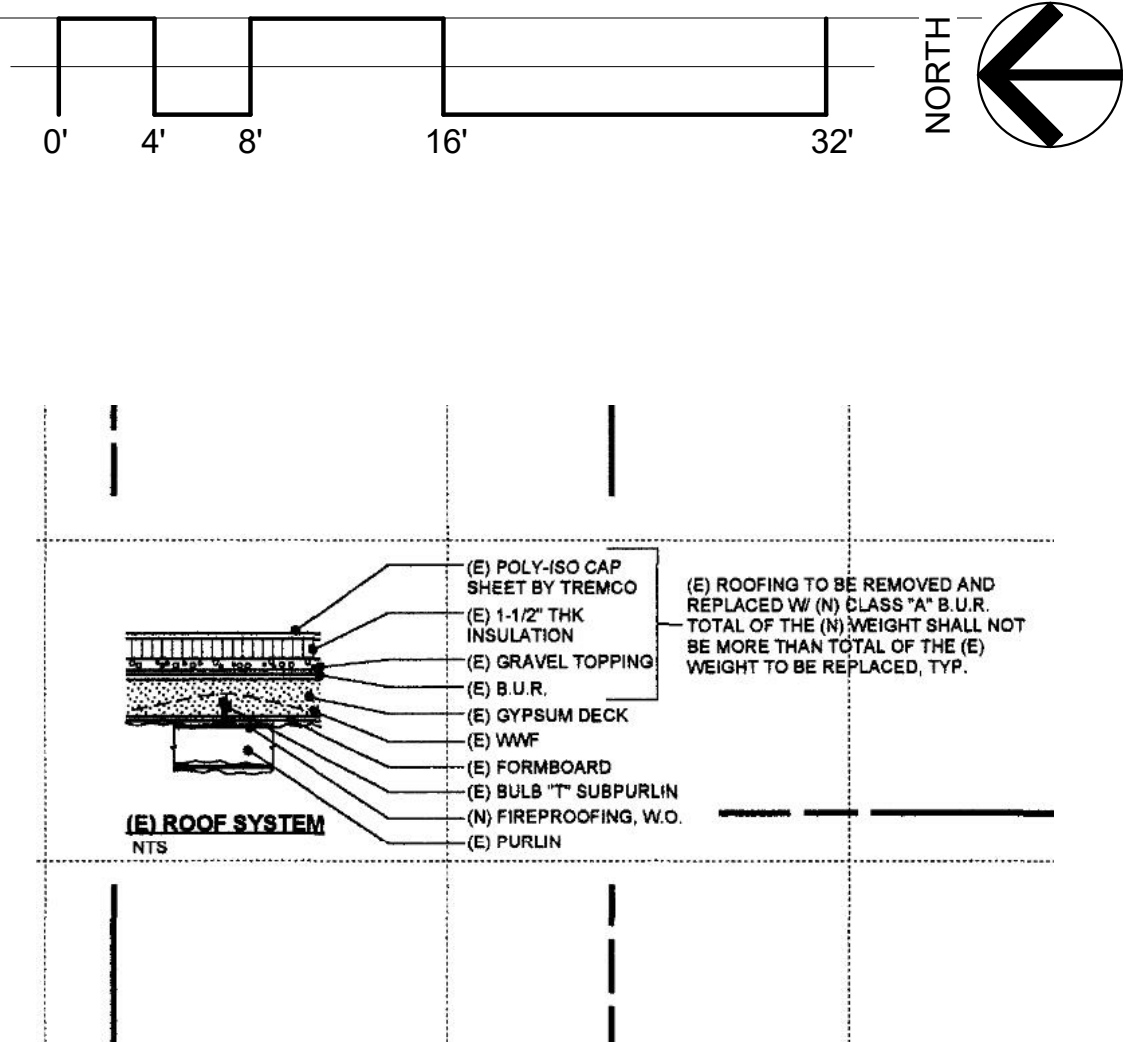
D.07 DEMOLISH PORTION OF ROOF FOR (N) EXHAUST FAN.SEE MECHANICAL.

GENERAL NOTES

- ALL ITEMS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW.
- VERIFY IN FIELD ALL MECHANICAL AND ELECTRICAL FOR LOCATIONS OF CONDUITS AND VENT PENETRATIONS.



3 VENT DETAIL
1 1/2" = 1'-0"



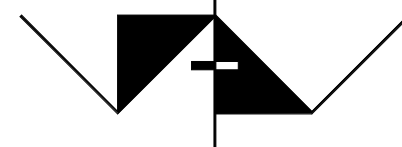
2 ROOF DETAIL
REFERENCE DRAWING FROM APPROVED DRAWING A-03-110238.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE
**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



**AMADOR WHITTLE
ARCHITECTS, INC.**

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3838 , (818) 874-0071

CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

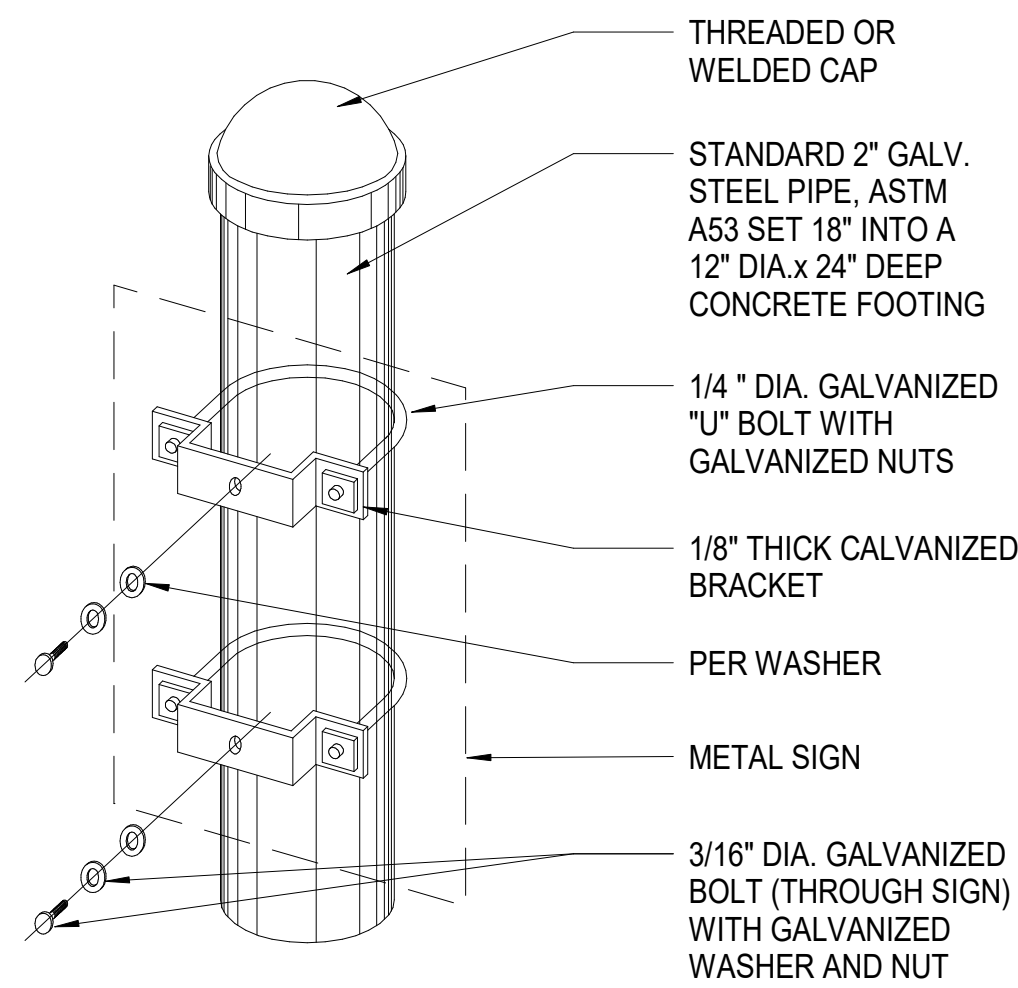
SHEET TITLE:

ROOF PLAN

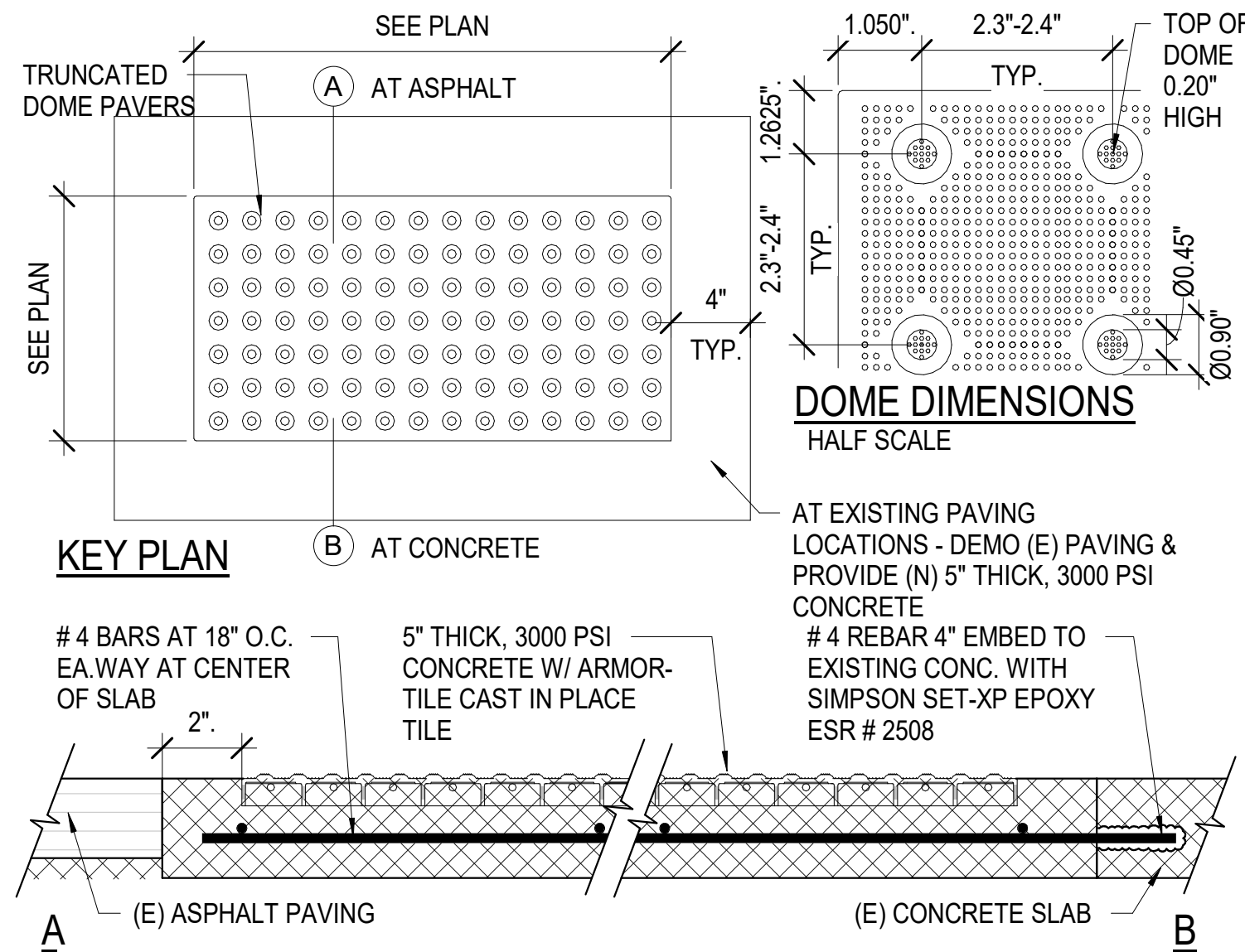
PROJECT NO.	21-VCCCD-005	PROJECT ARCH.	WJA
DRAWN	MC	CHECKED	WJA
SHEET NUMBER:			

A105

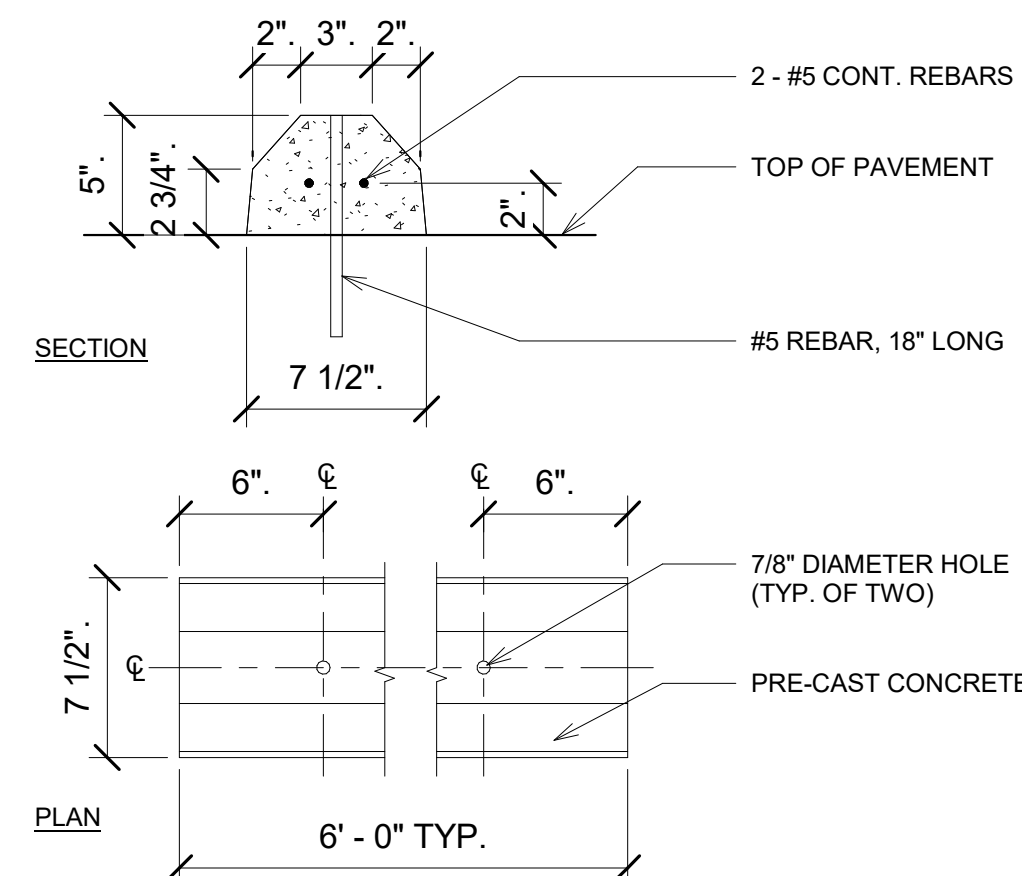
DATE: 02/25/2022 SHEET: ____ OF ____



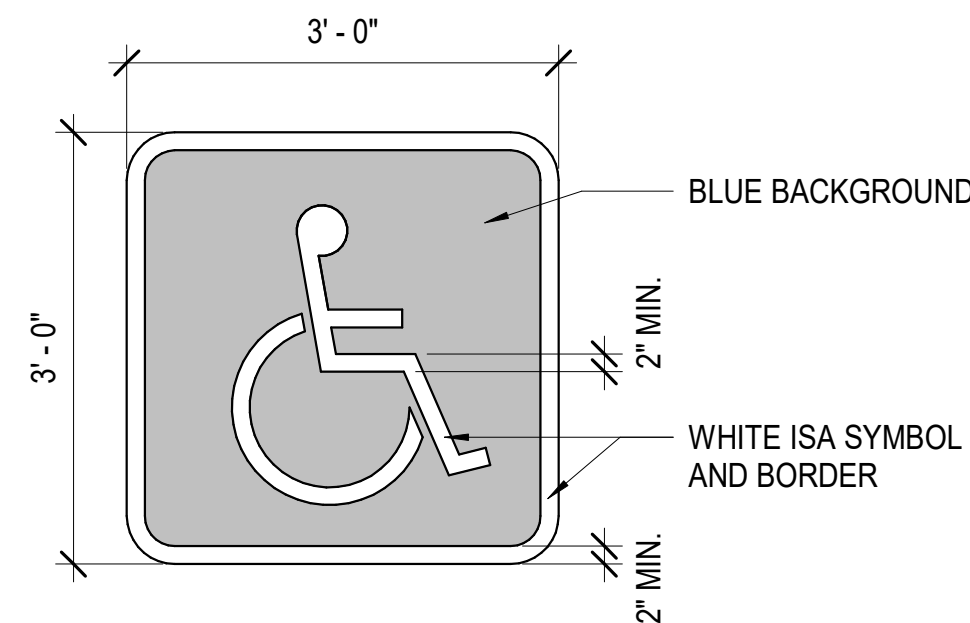
6 POST MOUNT DETAIL
3" = 1'-0"



4 TACTILE WARNING SURFACE TILE
1 1/2" = 1'-0"

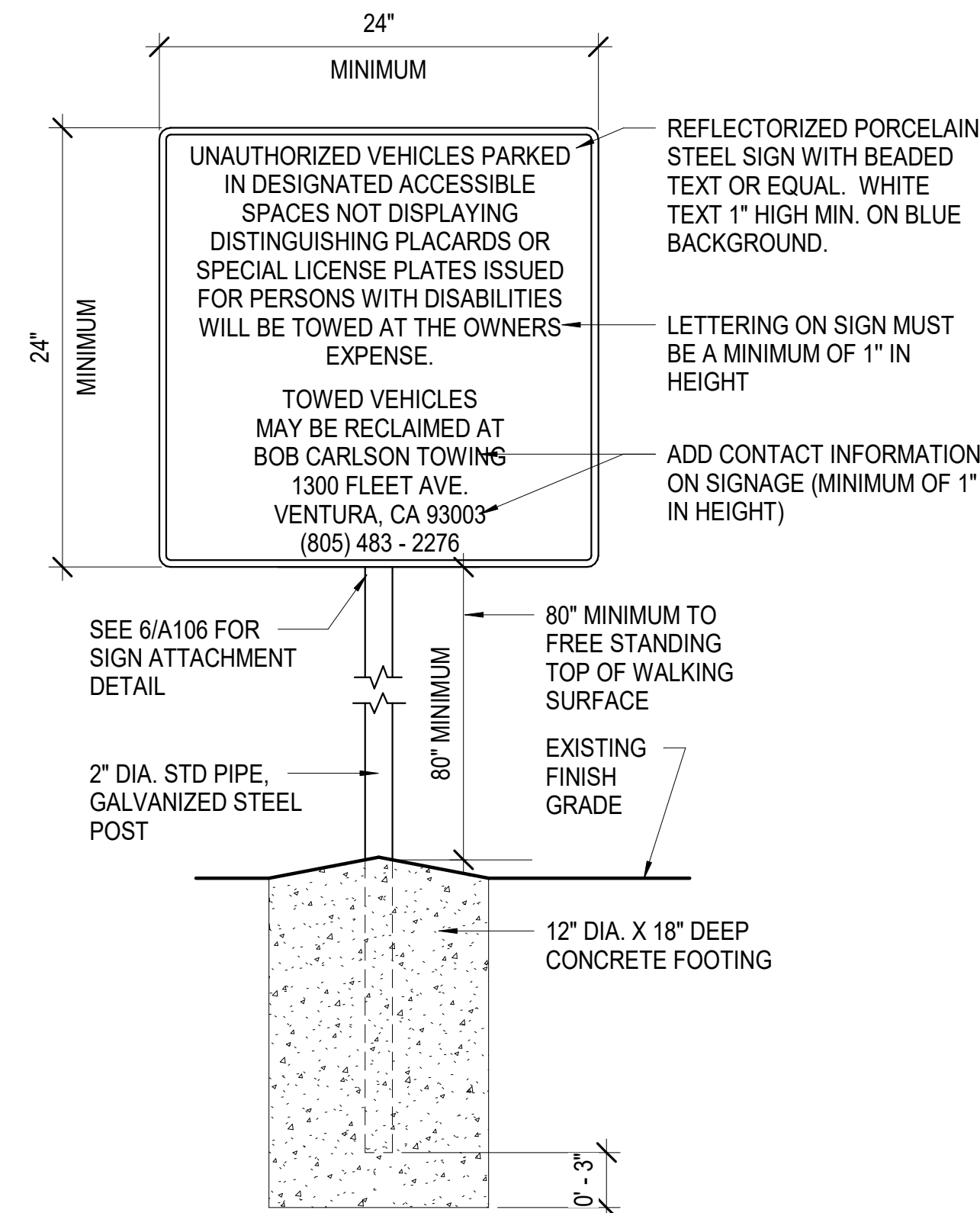


3 CONCRETE WHEEL STOP
1" = 1'-0"



- NOTES:
- SIGNAGE TO BE PAINTED ON EXISTING PAVEMENT. REPAIR PAVEMENT IF EXISTING CONDITION IS NOT SUITABLE FOR PROPER PAINT APPLICATION.
 - SYMBOL PROPORTIONS SHALL APPROXIMATE CBC FIGURE 11B-703.7.2.1.

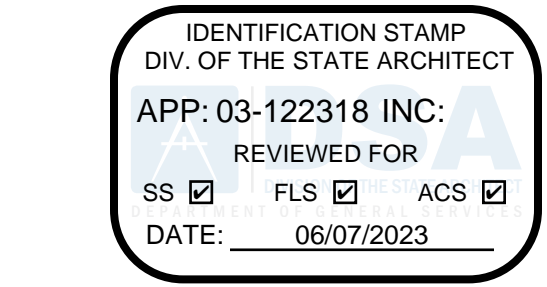
2 I.S.A. PARKING STALL PAINTED SYMBOL
3/4" = 1'-0"



1 TOW-AWAY SIGN
1 1/2" = 1'-0"

GENERAL NOTES

- ALL ITEMS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW.

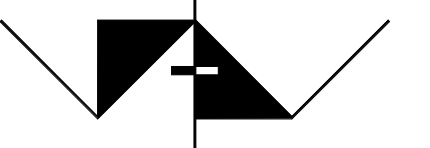


PROJECT TITLE AND LOCATION

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



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CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

ENLARGE SITE PLAN
& DETAILS

PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA
DRAWN: MC CHECKED: WJA

SHEET NUMBER:

A106

DATE: 02/25/22

SHEET: OF

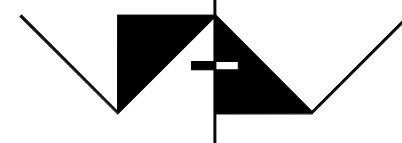
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

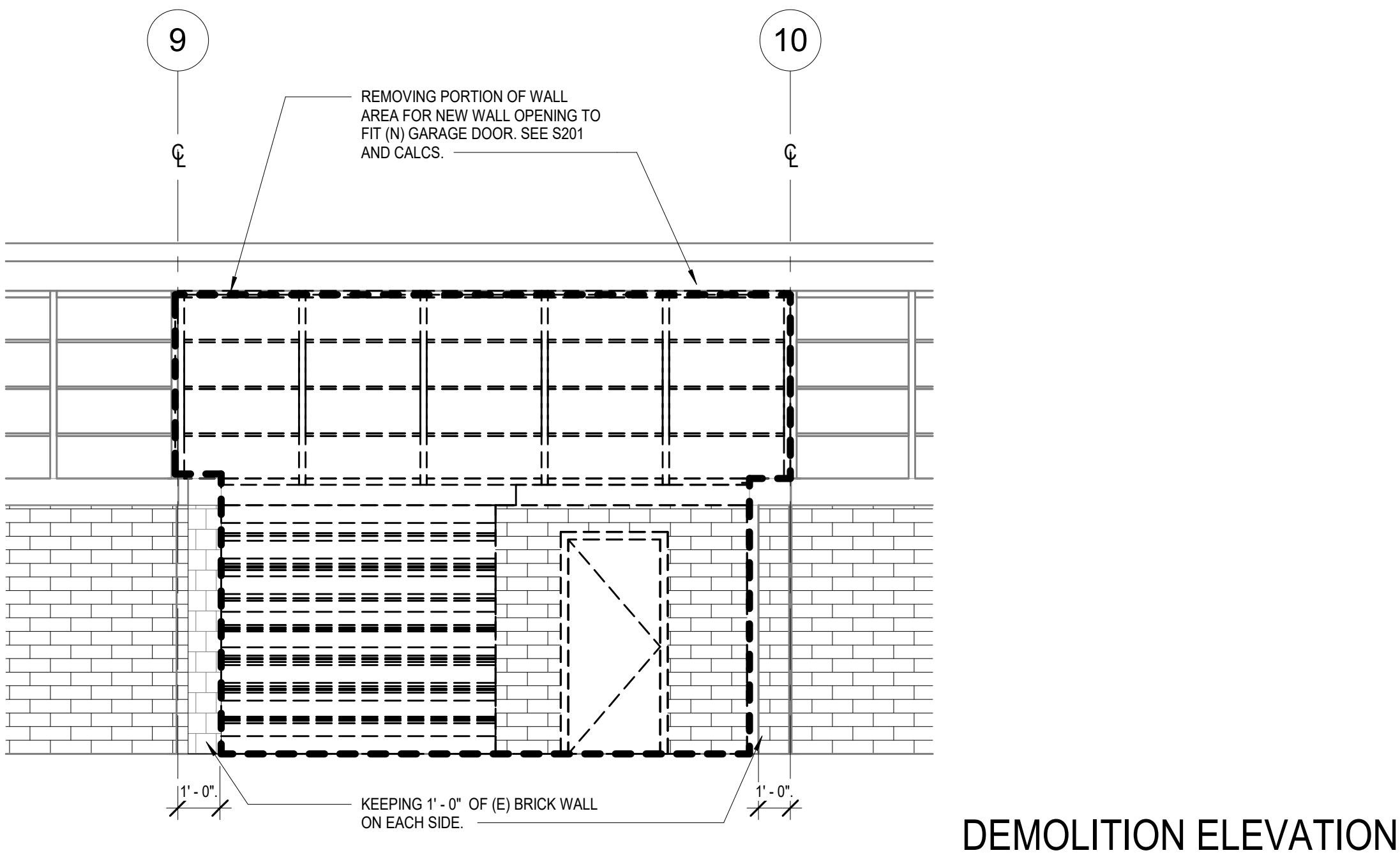
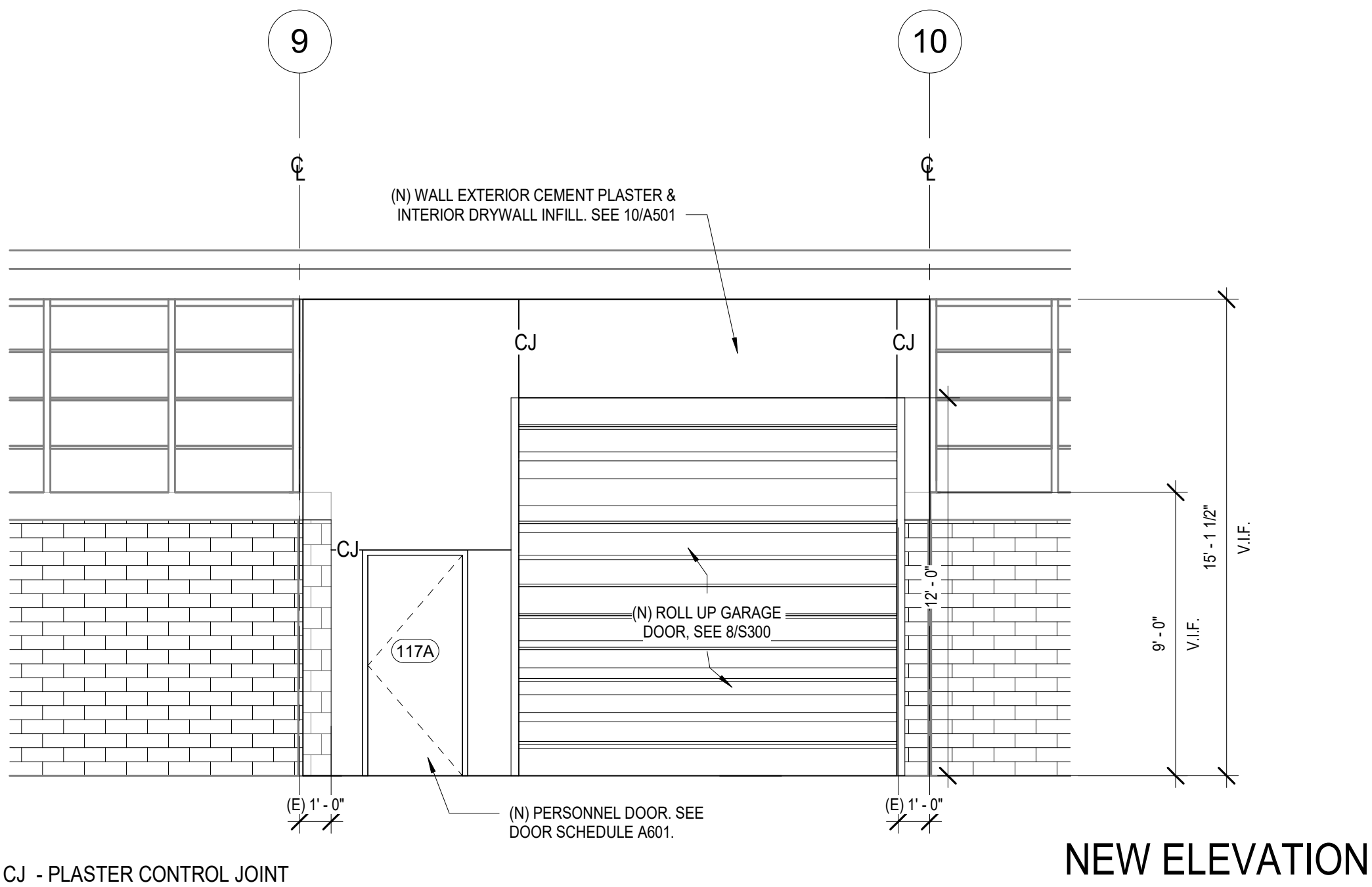
DEMO & NEW
ELEVATION

PROJECT NO.	21-VCCCD-005	PROJECT ARCH.	WJA
DRAWN	MC	CHECKED	WJA

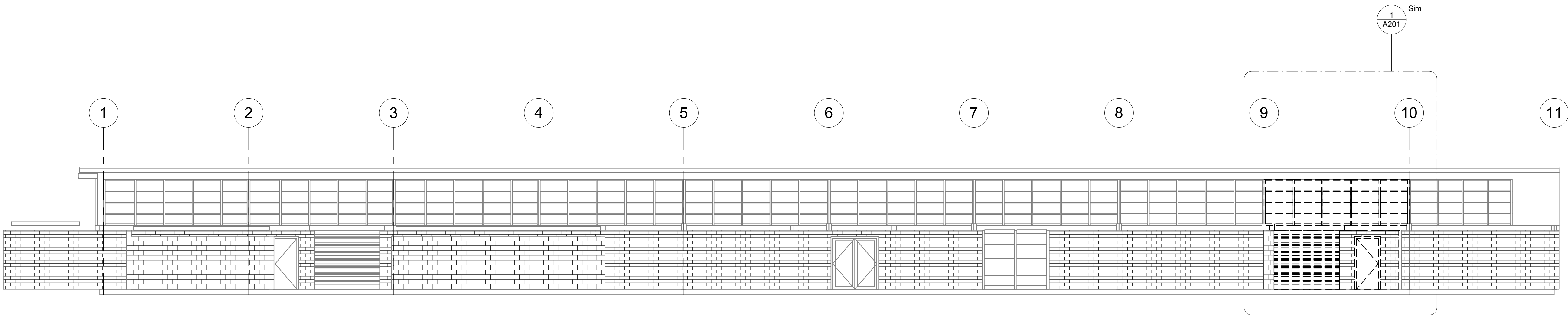
SHEET NUMBER:

A201

DATE: 02/25/2022 SHEET: OF



1 WEST ELEVATION
1/4" = 1'-0"



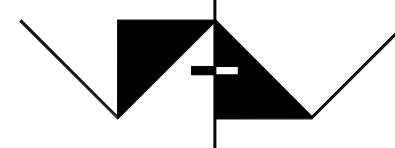
2 WEST ELEVATION - EXISTING
1/8" = 1'-0"

PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT

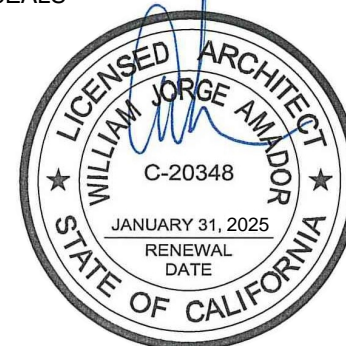


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CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

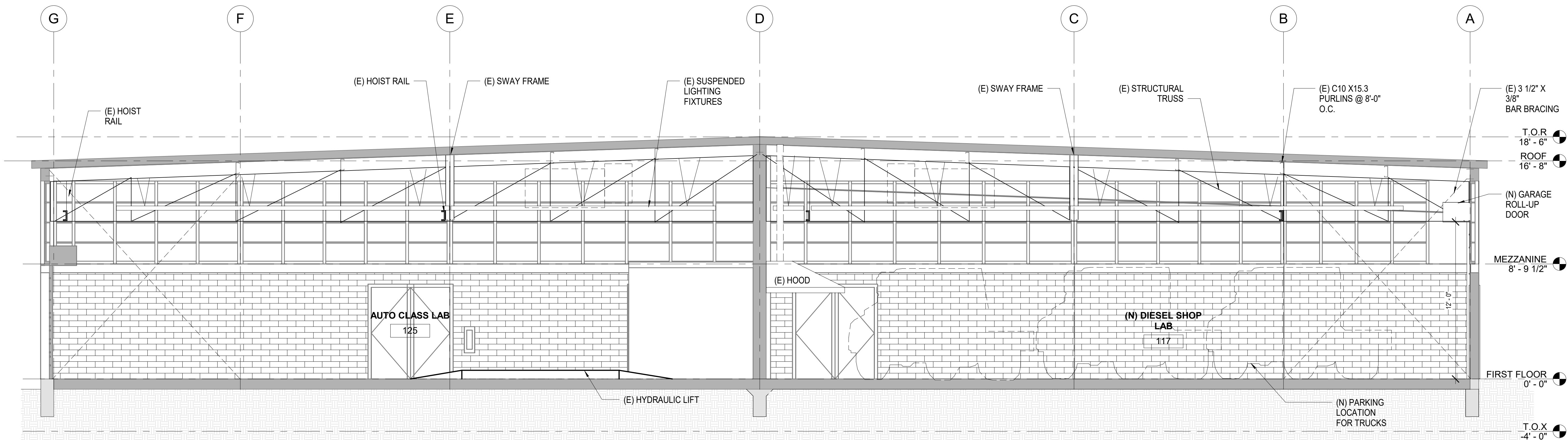
SECTIONS

PROJECT NO.	21-VCCCD-005	PROJECT ARCH.	WJA
DRAWN	MC	CHECKED	WJA

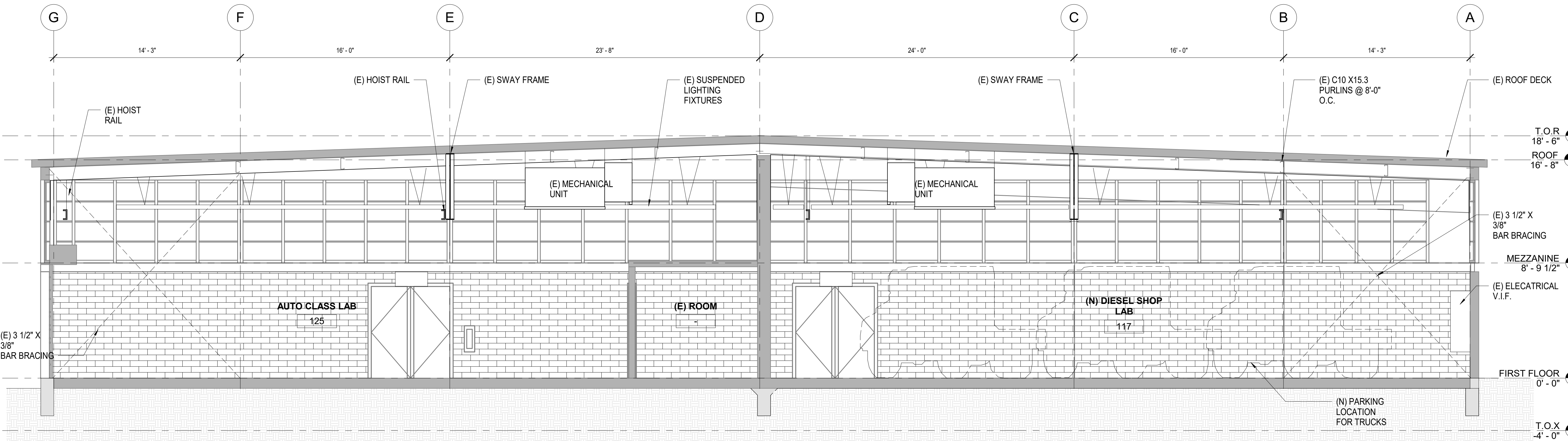
SHEET NUMBER:

A301

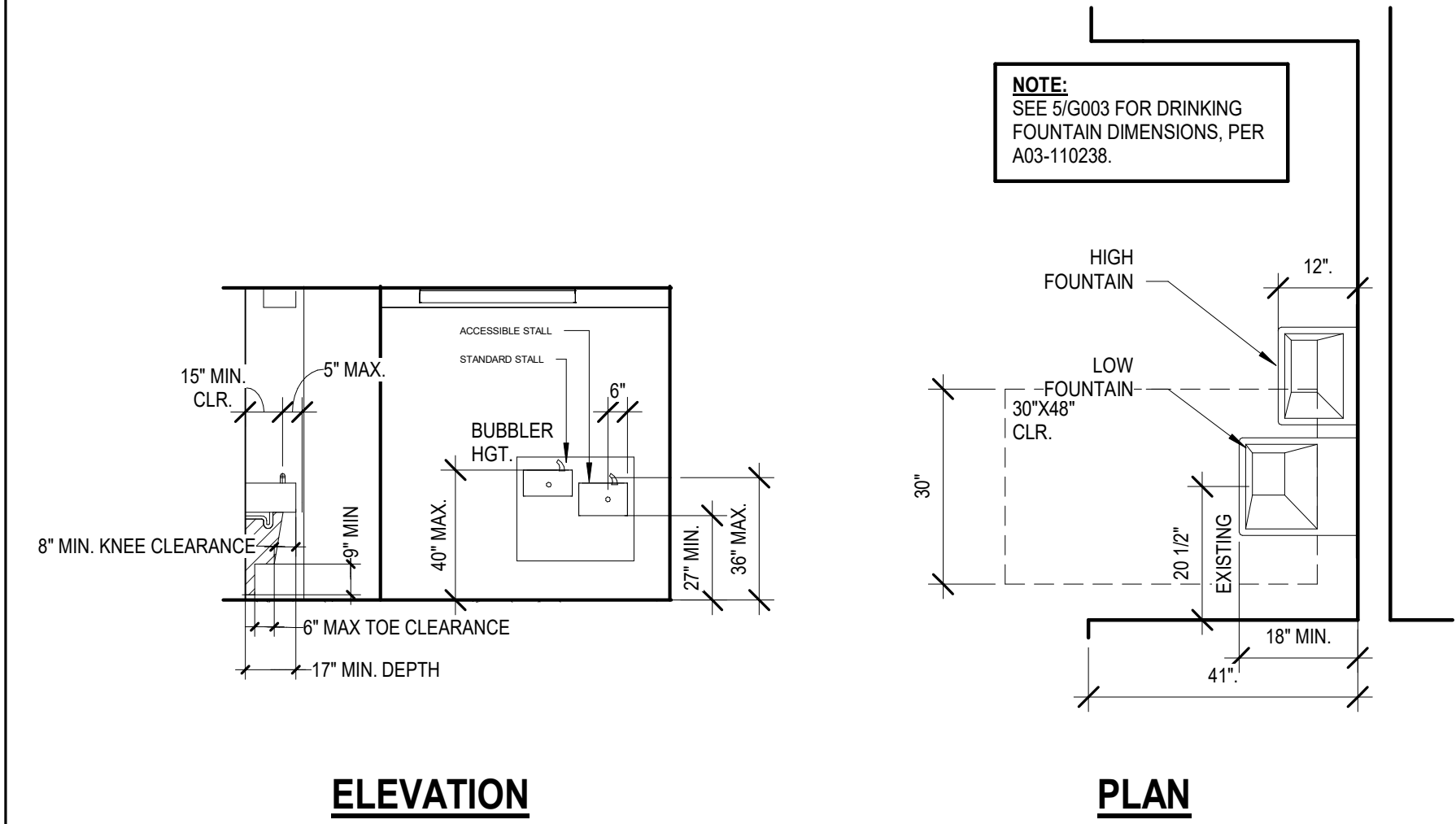
DATE: 02/25/2022 SHEET: ____ OF ____



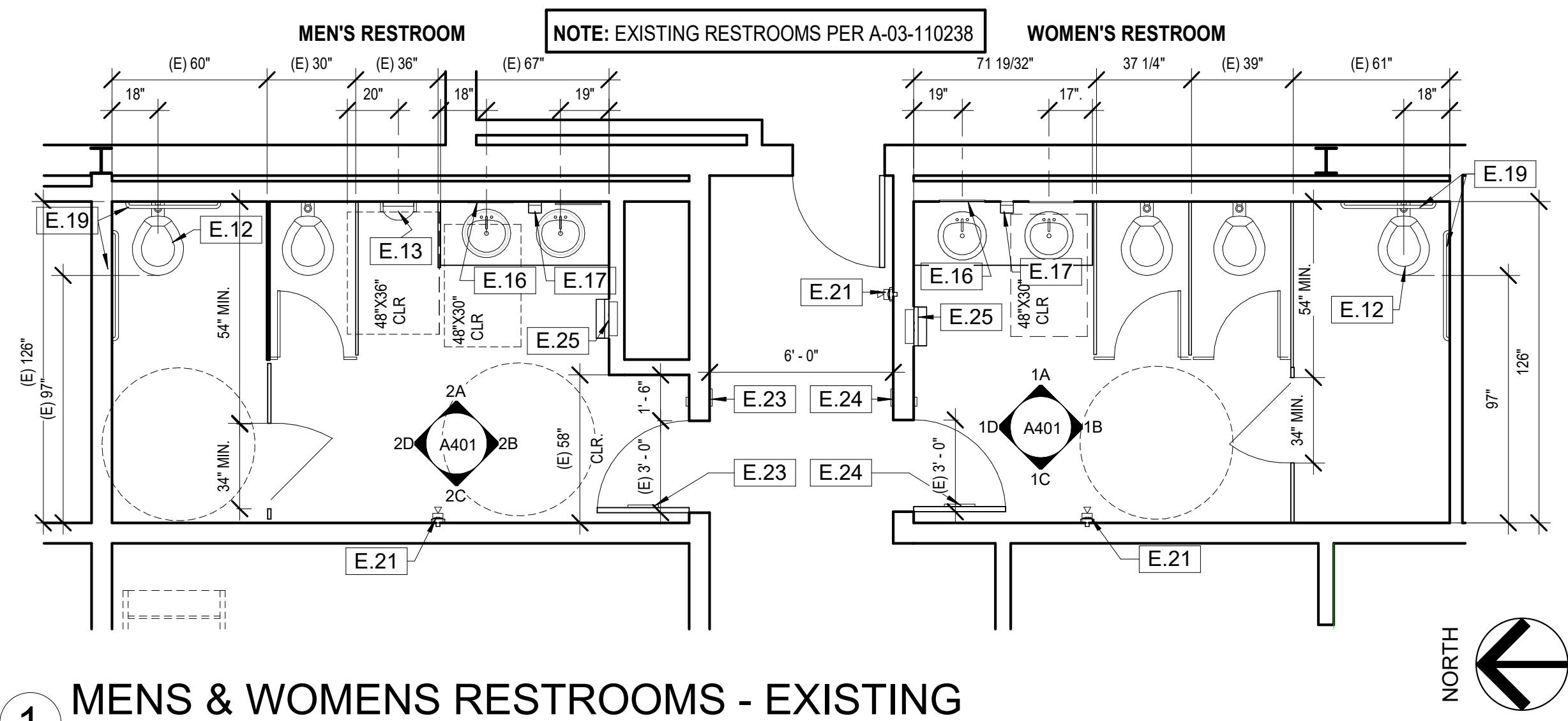
B AUTO LAB & MANUF. LAB - SECTION B - EXISTING
1/4" = 1'-0"



A AUTO LAB & MANUF. LAB - SECTION A - EXISTING
1/4" = 1'-0"



2 DRINKING FOUNTAIN - EXISTING
1/2" = 1'-0"



1 MENS & WOMENS RESTROOMS - EXISTING
1/4" = 1'-0"

GENERAL NOTES

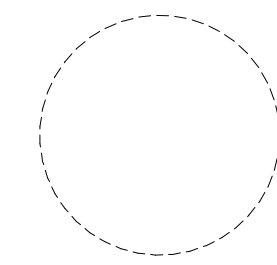
- ALL ITEMS SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW.

EXISTING KEYNOTES

- E.11 (E) ACCESSIBLE TOLIET PARTITION DOOR. A# 03-110238
- E.12 (E) ACCESSIBLE TOILET. A# 03-110238
- E.13 (E) ACCESSIBLE URINAL. A# 03-110238
- E.14 (E) ACCESSIBLE LAVATORY. A# 03-110238
- E.16 (E) ACCESSIBLE MIRROR. A# 03-110238
- E.17 (E) ACCESSIBLE SOAP DISPENSER. A# 03-110238
- E.19 (E) ACCESSIBLE GRAB BAR. A# 03-110238
- E.21 (E) FIRE ALARM STROBE NOTIFICATION DEVICE
- E.23 (E) SIGNAGE MENS RESTROOM. A# 03-110238
- E.24 (E) SIGNAGE WOMENS RESTROOM. A# 03-110238
- E.25 (E) ACCESSIBLE PAPER TOWEL & TRASH DISPENSER. A# 03-110238

RESTROOM LEGEND

5'-0" DIAMETER CLEAR FLOOR SPACE FOR ACCESSIBILITY

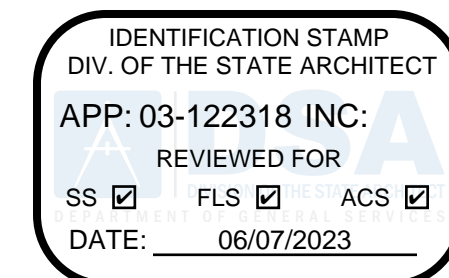


30" X 48" CLEAR FLOOR SPACE FOR ACCESSIBILITY



RESTROOM NOTES

- SEE 1/G003 FOR TOILET DIMENSIONS
- SEE 2/G003 FOR SINK DIMENSIONS
- SEE 3/G003 FOR URINAL DIMENSIONS
- SEE 4/G003 FOR LAVATORY DIMENSIONS
- SEE 10/G003 FOR ACCESSIBLE ACCESSORY HEIGHT DIMENSIONS

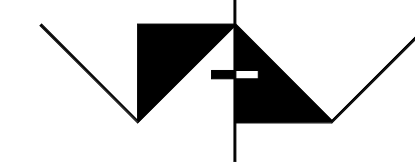


PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

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DSA_V3 SUBMITTAL 04/19/2023

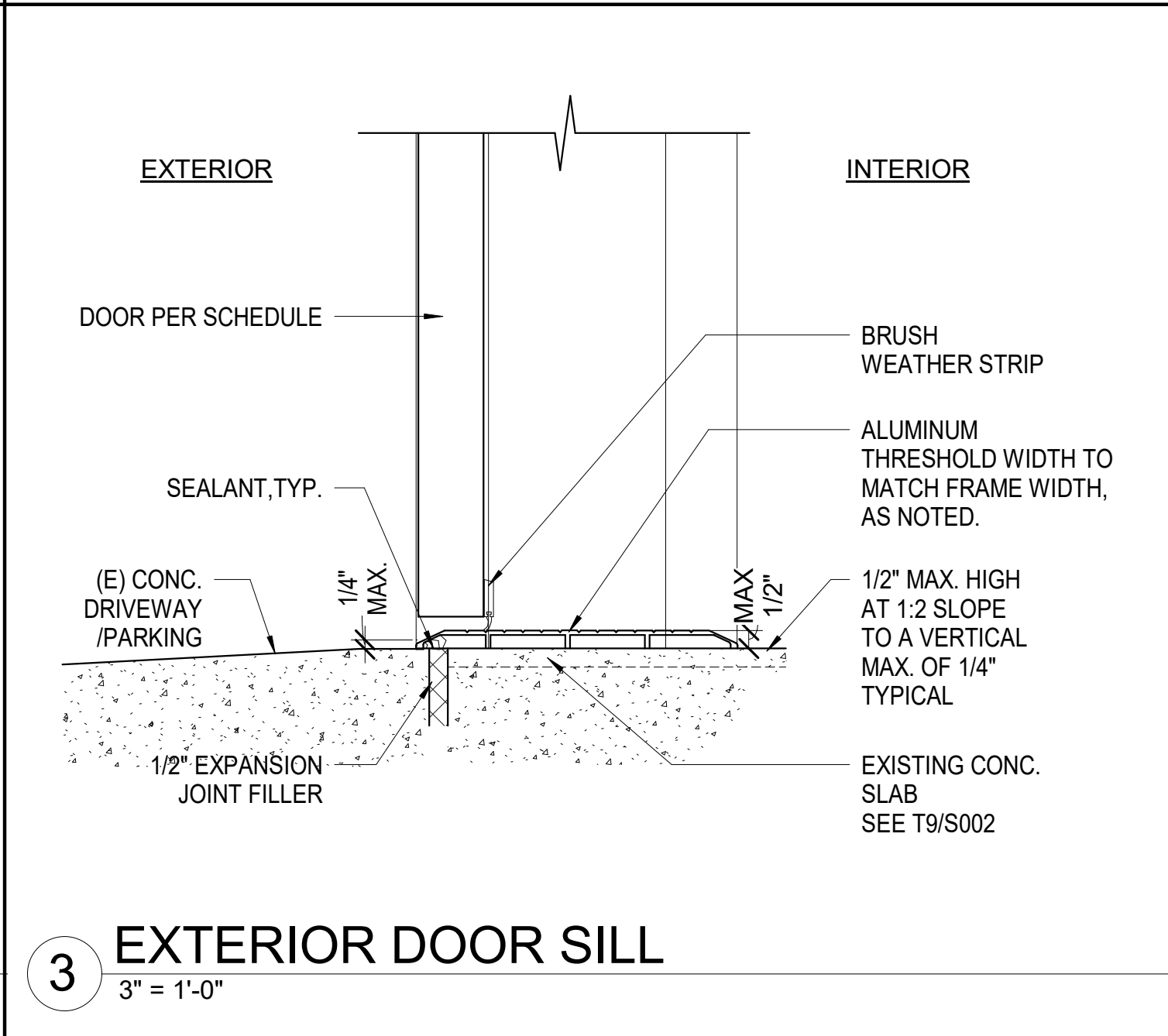
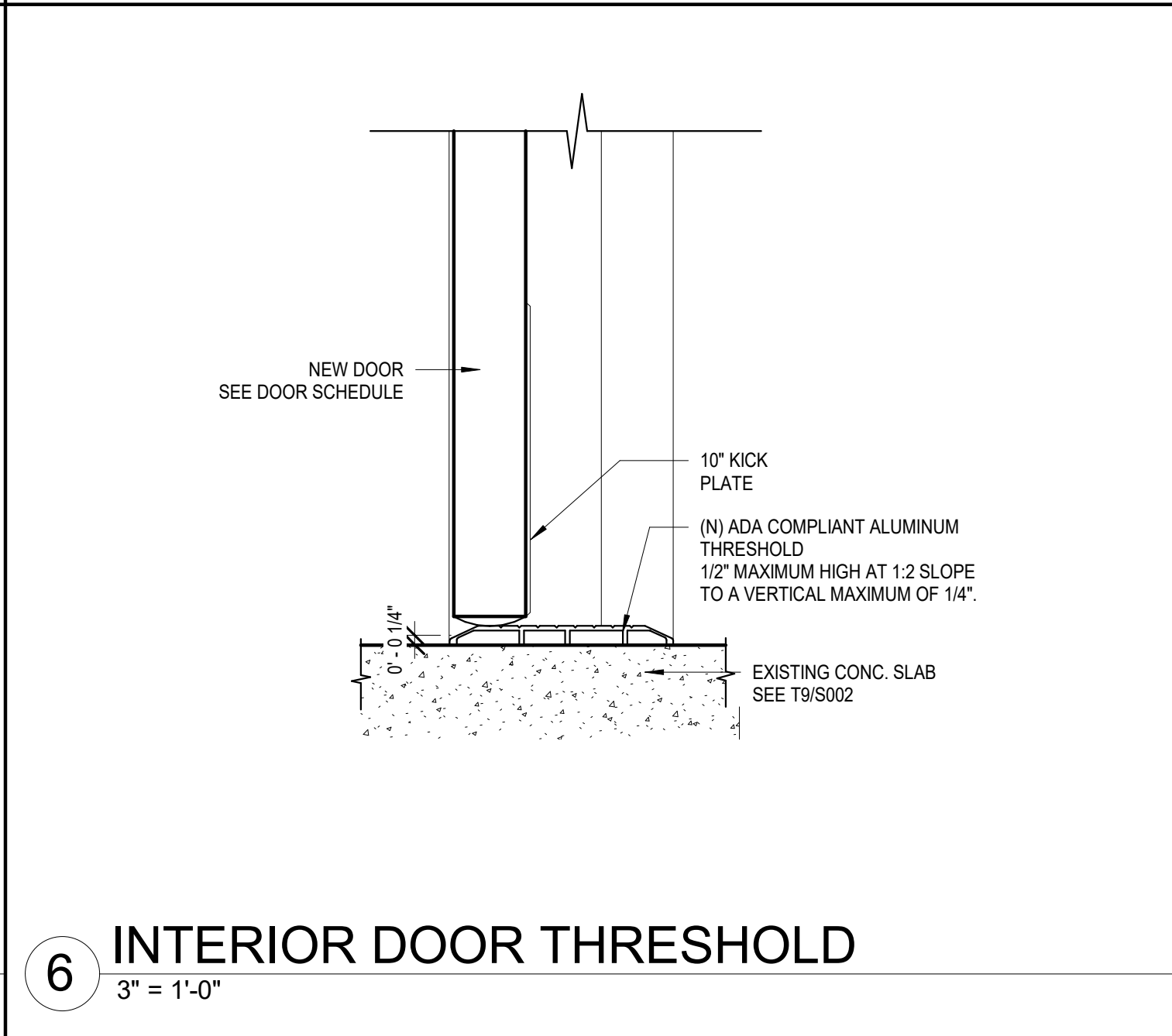
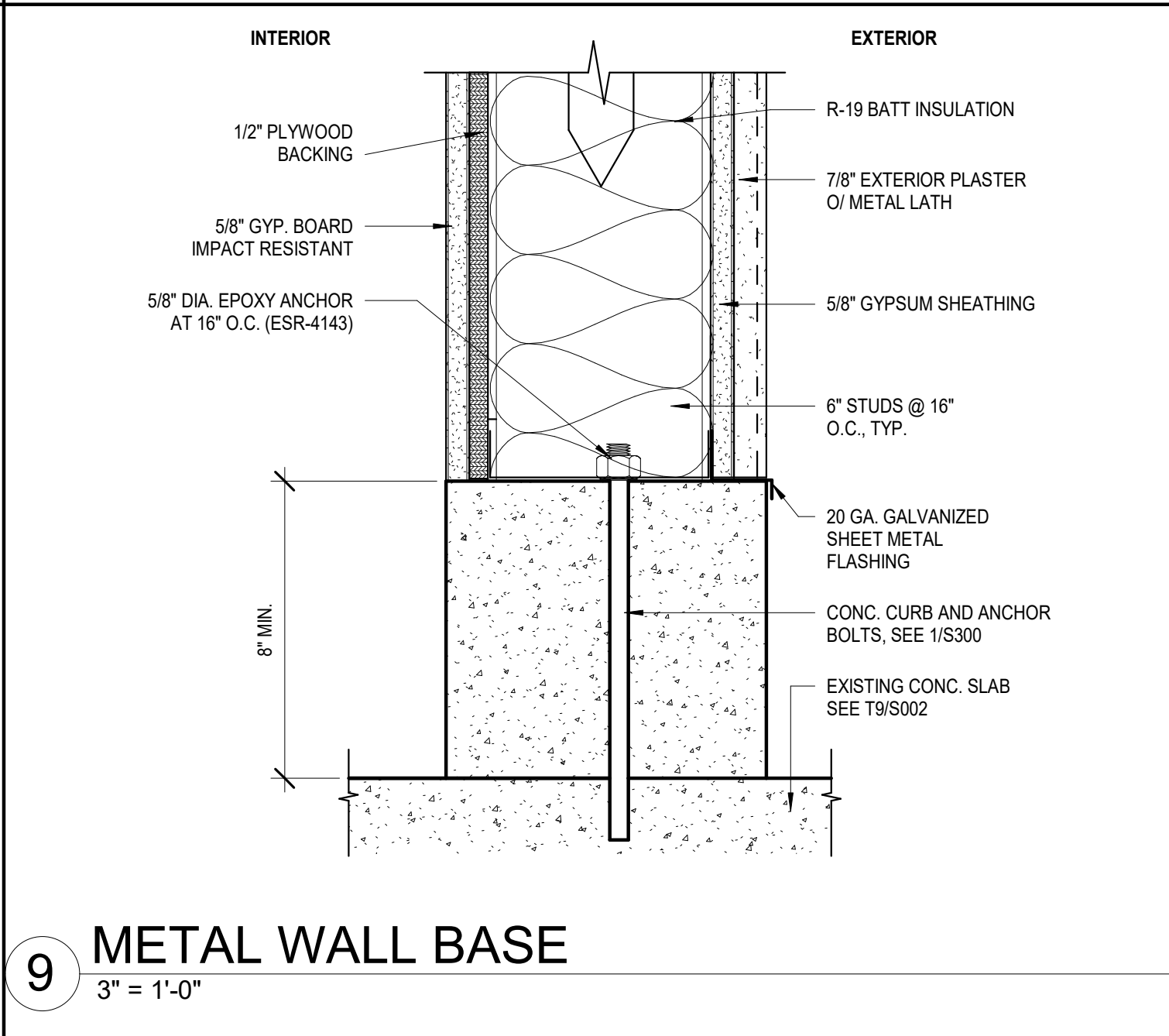
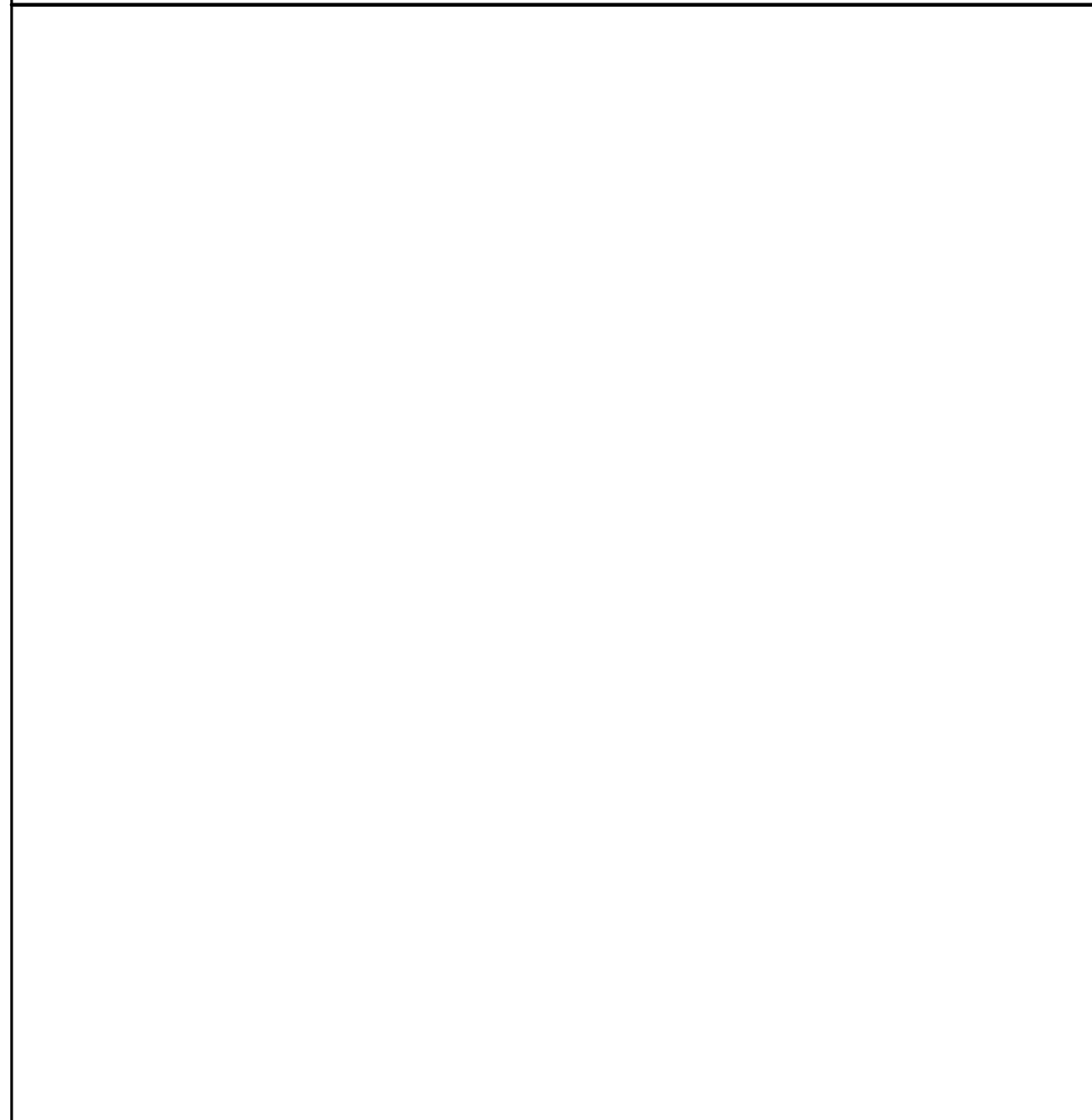
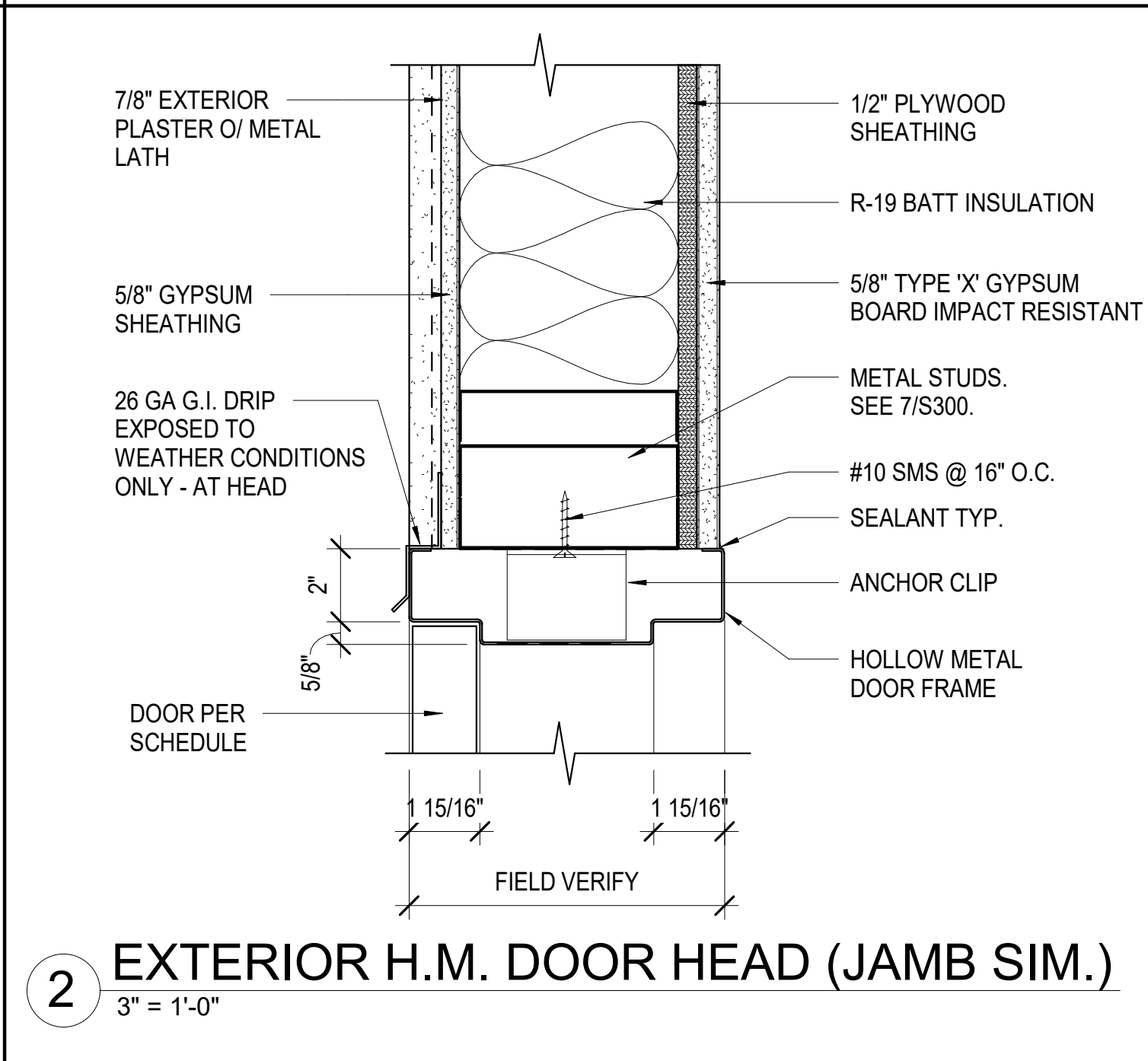
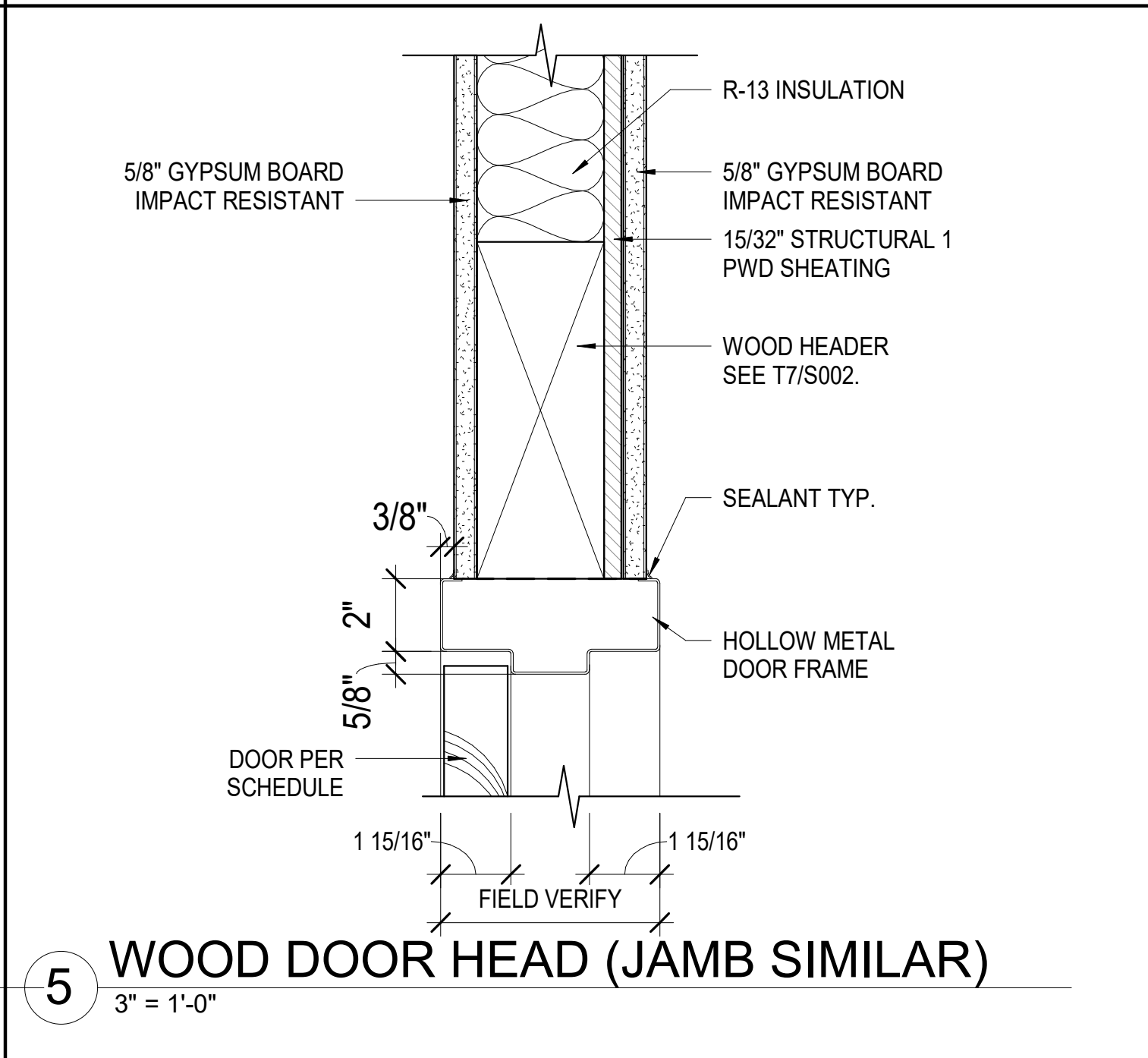
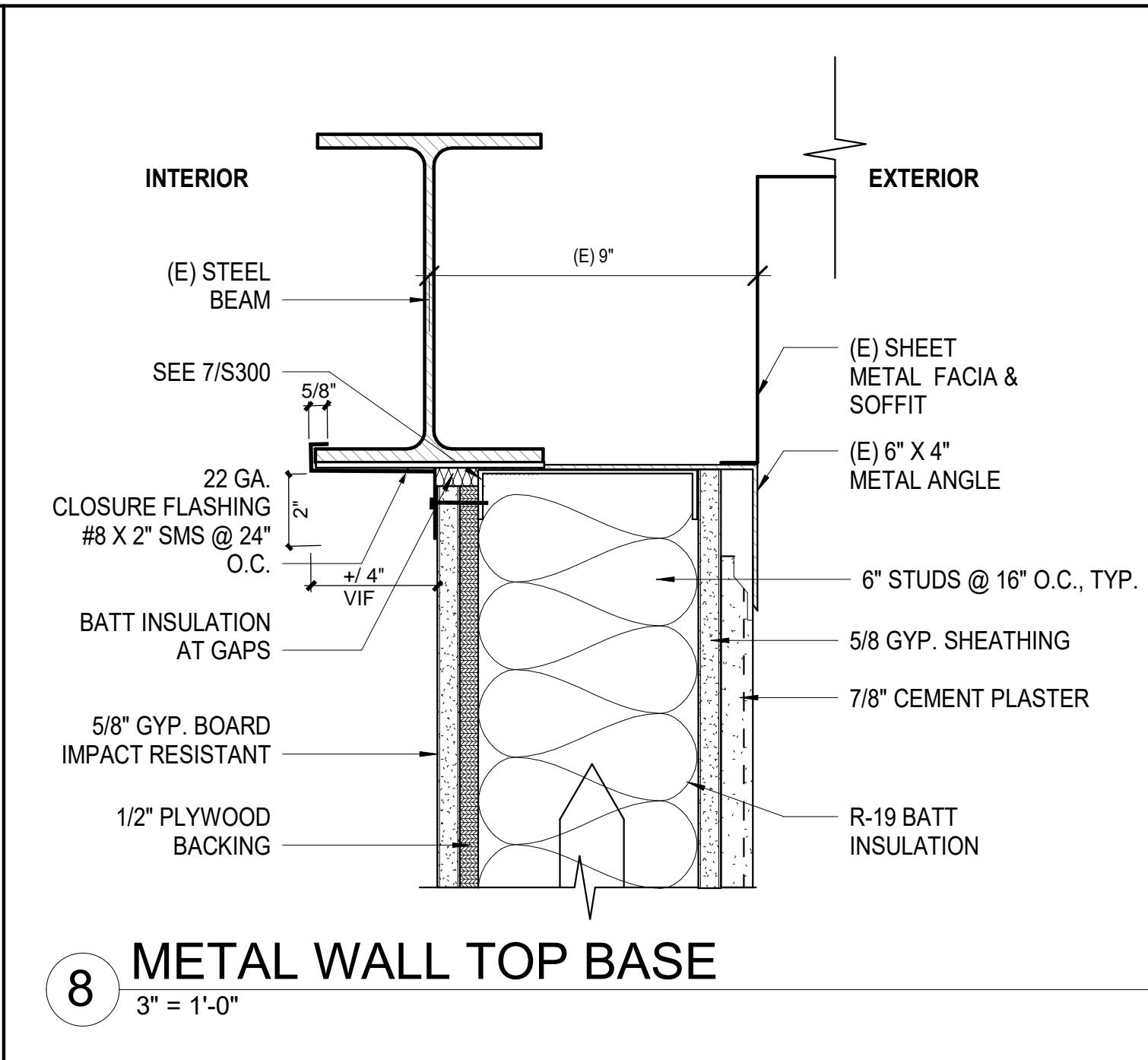
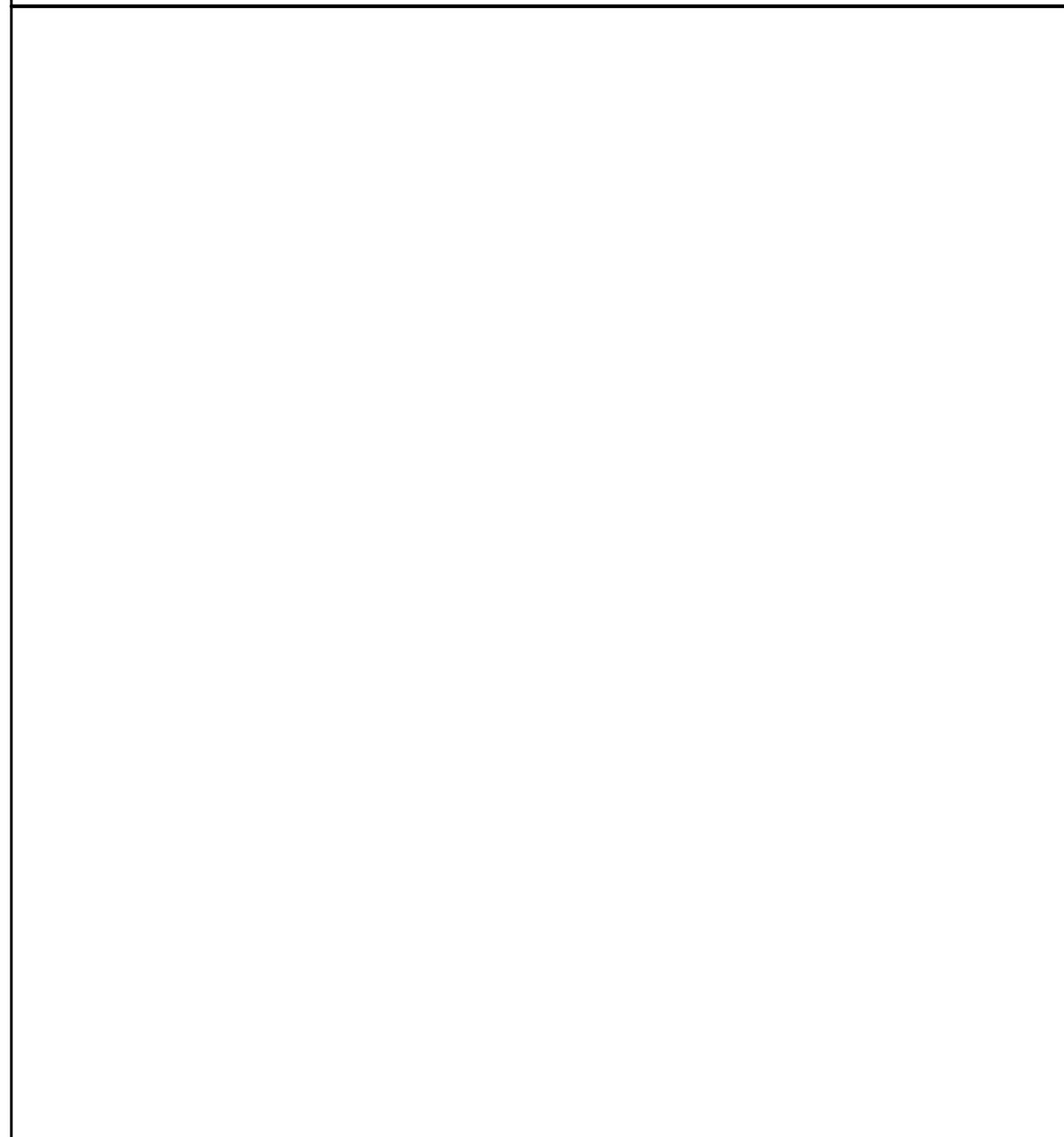
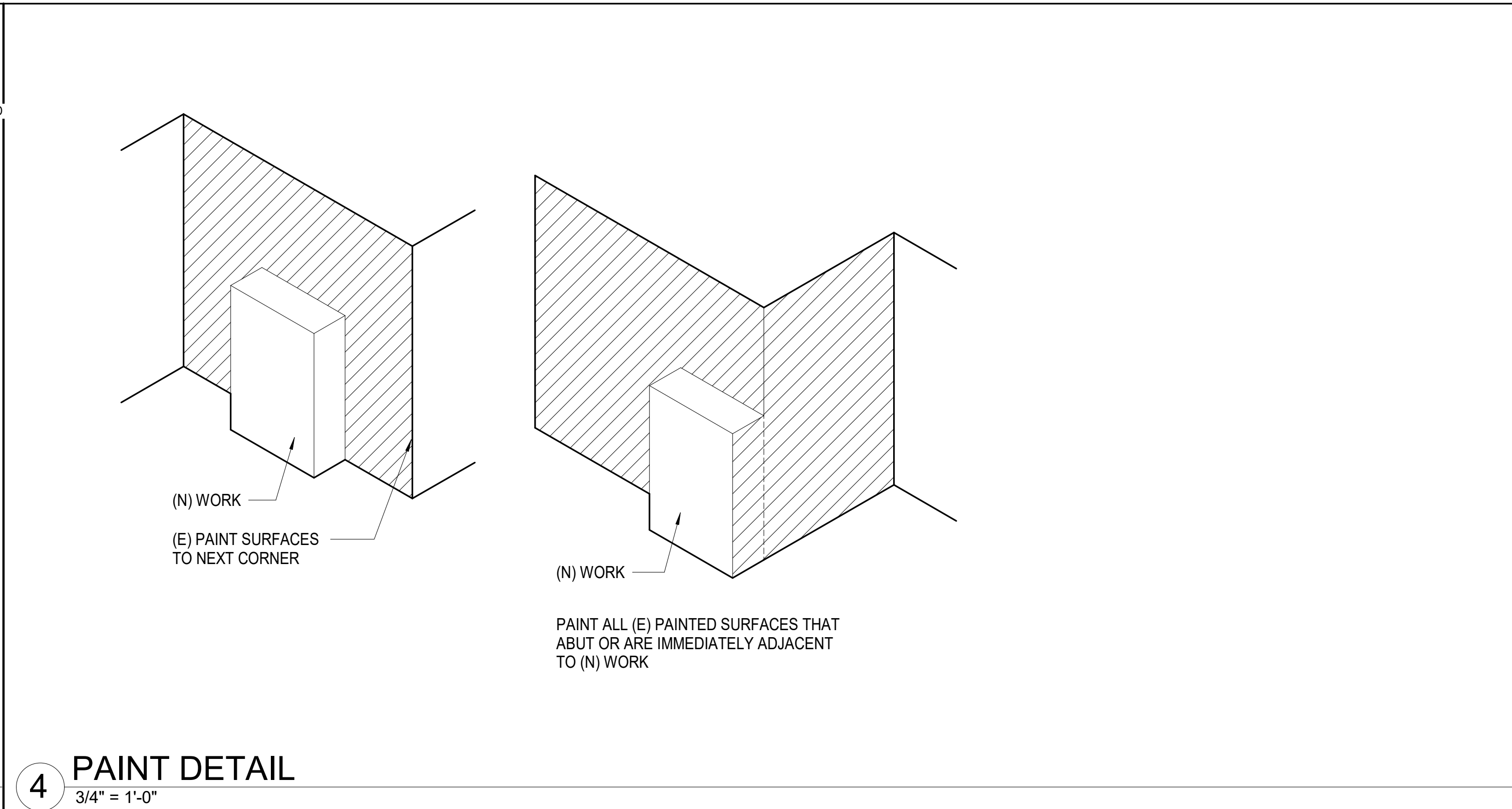
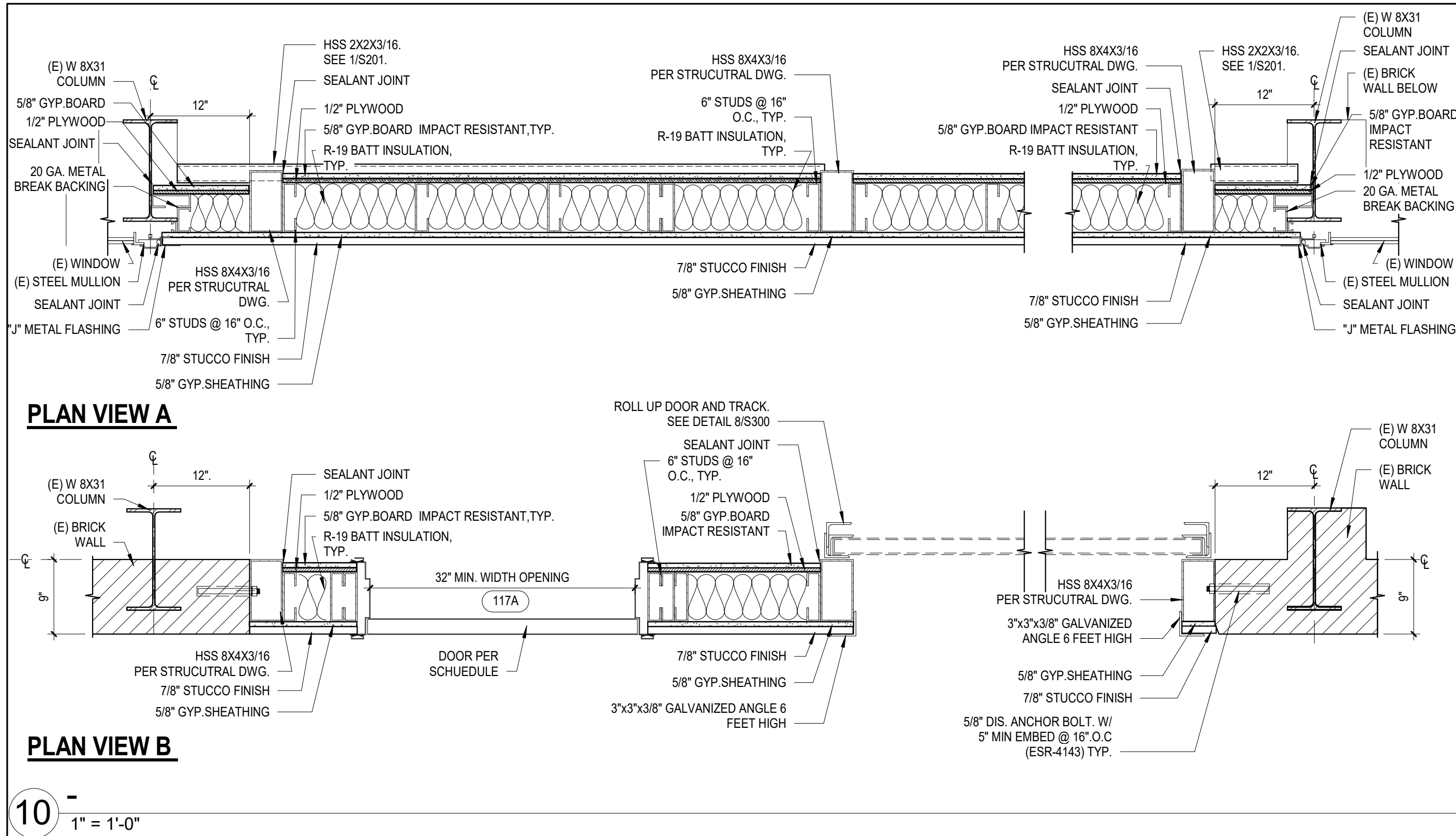
SHEET TITLE:

**EXISTING INTERIOR
ELEVATION**

PROJECT NO.	21-VCCCD-005	PROJECT ARCH.	WJA
DRAWN:	MC	CHECKED:	WJA
SHEET NUMBER:			

A401

DATE: 02/25/2022 SHEET: ____ OF ____



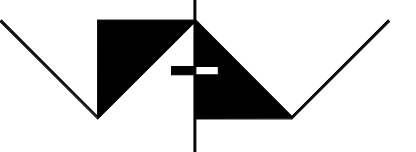
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE AND LOCATION

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
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CONSULTANT

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

**DOOR & WALL
DETAILS**

PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA
DRAWN MC CHECKED: WJA
SHEET NUMBER:

A501

DATE: 02/25/22 SHEET: OF

ABBREVIATIONS

A.B.	ANCHOR BOLTS	PL.	PLATE / PROPERTY LINE
ARCH.	ARCHITECT OR ARCHITECTURAL	PLY.	PLYWOOD
B.N.	BOUNDARY NAILING	REINF.	REINFORCEMENT
BLK'G.	BLOCKING	REQ'D.	REQUIRED
BM.	BEAM	S.A.D.	SEE ARCHITECTURAL DRAWINGS
CONN.	CONNECTION	S.O.G.	SLAB ON GRADE
CONT.	CONTINUOUS	SCHED.	SCHEDULE
DWG'S.	DRAWINGS	SHTG.	SHEATHING
EA.	EACH	SM.	SIMILAR
E.N.	EDGE NAIL	S.M.S.	SHEET METAL SCREWS
F.N.	FINISH NAIL	STAGG.	STAGGERED
FTG.	FOOTING	T&B	TOP & BOTTOM
GLB.	GLUE-LAMINATED BEAM	TYP.	TYPICAL
L.W.	LIGHTWEIGHT	U.N.O.	UNLESS NOTED OTHERWISE
M.B.	MACHINE BOLTS	U.S.P.	UNDER SEPARATE PERMIT
MAX.	MAXIMUM	V.F.	VERIFY IN FIELD
MIN.	MINIMUM	WD.	WOOD
O.C.	ON CENTER	W.N.S.	WELDED NELSON STUDS
P.T.	PRESSURE TREATED	W.T.S.	WELDED TREADED STUDS

LIGHT GAUGE METAL

1.

FOR NON-LOAD BEARING METAL STUDS AND CEILINGS SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. FOLLOWING NOTES APPLY TO METAL STUDS INDICATED ON STRUCTURAL DRAWINGS.

2.

ALL LIGHT GAUGE METAL FRAMING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" 2020 EDITION.

3.

ALL LIGHT GAUGE METAL FRAMING SHALL BE AS NOTED BELOW: INTERIOR AND EXTERIOR STUDS: GALVANIZED CONFORMING TO ASTM A123 COATING CLASS G60.

4.

ALL LIGHT GAUGE METAL FRAMING SHALL CONFORM WITH THE FOLLOWING:

- GALVANIZED STUDS, JOISTS, TRACKS, END CLOSURES, BRIDGING, ACCESSORIES AN STRAPS (12 (97), 14 (68) AND 16 (54) GAUGE); ASTM A653, GRADE 50, (Fy_min= 50,000 psi, Fu_min=65,000 psi)

- GALVANIZED STUDS, JOISTS, TRACKS, END CLOSURES, BRIDGING, ACCESSORIES AND STRAPS (16 (43) AND 20 (33) GAUGE); ASTM A653, GRADE 33, (Fy_min= 33,000 psi, Fu_min=45,000 psi)

- GALVANIZED BACKING PLATES: ASTM A653, GRADE 50, (Fy_min= 50,000 psi, Fu_min=65,000 psi)

5.

DOUBLE VERTICAL STUDS SHALL BE STITCH WELDED TOGETHER ON BOTH FLANGES WITH 1/16" GROOVE WELDS X 1" LONG AT 12" ON CENTER, UNO ON DRAWINGS.

6.

TOP AND BOTTOM STUD TRACKS FOR INTERIOR PARTITIONS SHALL BE 16 GA. MATERIAL WITH 1.5" FLANGES, UNO ON DRAWINGS.

7.

TOP STUDS TRACKS FOR EXTERIOR WALLS SHALL BE 16 GA MATERIAL WITH 1.5" FLANGES: BOTTOM STUD TRACKS FOR EXTERIOR WALLS SHALL BE 16 GA MATERIAL WITH 1.5" FLANGES, UNO ON DRAWINGS.

8.

DEEP LEG TRACK FOR EXTERIOR WALLS SHALL BE 16GA MATERIAL WITH 2" FLANGES, UNO ON DRAWINGS.

9.

DOUBLE JOIST ARE BACK TO BACK U.N.O.

10.

ALL LIGHT GAUGE FRAMING MEMBERS SHALL BE CLARK DIETRICH PER LA CITY RR 25889.

11.

SUBMIT SHOP DRAWINGS FOR REVIEW.

12.

ALL METAL STUDS AND JOISTS SHALL HAVE STIFFENED FLANGES. SEE DRAWINGS FOR DETAILS ON CONNECTIONS, BRACING, BRIDGING, ETC.

13.

CUT FRAMING COMPONENTS, SUCH AS BRACING, SQUARELY OR AT AN ANGLE TO FIT TIGHT AGAINST ABUTTING MEMBERS. HOLD MEMBERS FIRMLY IN POSITION UNTIL PROPERLY FASTENED.

14.

ALL BEARING STUDS MUST BE FULLY ATTACHED TO THE WALL LEDGER. ALL STUDS SHALL BE SPACED AT SAME SPACING AS JOIST (IN LINE FRAMING). ALL BEARING STUDS, COLUMNS AND BUILT UP STUDS SHALL HAVE CONTINUOUS BEARING DOWN TO FOUNDATION U.N.O. SOLID BLOCKING AT FLOORS SHALL BE PROVIDED.

15.

CUTTING FLANGES AND STIFFENER LIPS OF LOAD BEARING STUDS IS PROHIBITED, NO STUD NOTCHING IS PERMITTED IN BEARING WALLS U.N.O.

16.

OPENING IN STUD/JOIST WEBS OTHER THAN THE STANDARD PUNCHOUTS BY MANUFACTURER ARE PROHIBITED UNLESS SPECIFICALLY DESIGNED AND DETAILED BY ENGINEER. NO PUNCHOUT SHALL BE ALLOWED WITHIN 24" OF THE SUPPORT OR POINT LOAD.

17.

ATTACH STUDS USING PLUG, BUTT OR SEAM WELDS, UNLESS NOTED OTHERWISE. WHERE STUDS ARE BURNED THROUGH BY WELDING, PROVIDE SUITABLE STITCH PLATE OF SAME GAUGE. SPLICES IN AXIAL LOADED STUDS OR BRACES ARE NOT PERMITTED. PROVIDE BUTT WELDS OR SPLICES AT JOINTS IN TRACK. WIRE TYING OF FRAMING COMPONENTS IS NOT PERMITTED.

18.

PREFABRICATED PANELS SHALL BE SQUARED AND BRACED TO AVOID RACKING. LIFT PREFABRICATED PANELS IN A MANNER SO AS NOT TO CAUSE LOCAL DISTORTION OF ANY MEMBER.

19.

ALL SHEET METAL SCREWS SHALL EXTEND THROUGH METAL FRAMING AND STRUCTURAL STEEL A MINIMUM OF ¼" OR 3 EXPOSED THREADS WHICHEVER IS GREATER.

20.

ALL LIGHT METAL GAUGE TO METAL FASTENERS INDICATED ON THESE DRAWINGS ARE QUICK DRIVE COLD FORMED SELF-DRILLING/SELF-TAPPING STEEL SCREWS AS MANUFACTURED BY SIMPSON STRONG-TIE (LARR 25670). SCREWS SHALL HAVE A MINIMUM EDGE DISTANCE OF ½" FASTENERS SHALL BE AS FOLLOWS:

APPLICATION	FASTENER
LIGHT GAUGE:	18 GA. OR 20 GA.-#8 MODIFIED TRUSS HEAD
TRACK TO STUD:	16 GA.-#10 PANCAKE HEAD
ALL OTHER LIGHT GAUGE METAL:	18 GA. OR 20 GA.-#8 WASHER HEAD
TO LIGHT GAUGE METAL:	16 GA.-#10 HEX WASHER HEAD CONNECTION

21.

ALL LIGHT GAUGE METAL TO STRUCTURAL STEEL FASTENERS SHALL BE HILTI X-AL-H POWER DRIVEN FASTENER (LARR 25646, ICC ESR-1663):

APPLICATION	FASTENER SHANK DIA
STRUCTURAL STEEL THICKNESS <= ½"	0.145"
½" < STRUCTURAL STEEL THICKNESS <¾"	0.158"
¾" < STRUCTURAL STEEL THICKNESS	0.177"

22.

THE CONTRACTOR IS PROHIBITED FROM USING TORCHES TO BURN HOLES IN TRACKS OR STUDS

23.

ALL (N) WELDING SHALL BE PERFORMED BY AWS CERTIFIED LIGHT GAUGE WELDERS, CERTIFIED FOR ALL APPROPRIATE DIRECTIONS PER AWS. WELDING RODS SHALL CONFORM TO THE FOLLOWING:

A.

18 GA. AND LIGHTER SHEET TO SHEET - E60XX

B.

16 GA. AND HEAVIER SHEET TO SHEET - E70XX OR E6013

REINFORCEMENT

1.

ALL TYPICAL REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS NOTED OTHERWISE ON THE DRAWINGS (#3 BARS MAY BE GRADE 40 FOR AVAILABILITY)

2.

WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE NOT BE DONE UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWINGS, THE FOLLOWING SHALL APPLY:

A.

WELDED REBAR SHALL COMPLY WITH ASTM A-706 [Fy=60 KSI]

B.

WELDING SHALL CONFORM TO AWS D1.4

C.

WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY AWS CERTIFIED WELDERS

D.

USE E90XX ELECTRODES

3.

WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A-185 [Fy=65 KSI]. MINIMUM LAP AT SPLICES OF 12 INCHES. PROVIDE MESH IN FLAT SHEETS ONLY. ROLLED MESH IS NOT ACCEPTABLE. OFFSET END-LAPS IN ADJACENT SHEETS TO PREVENT CONTINUOUS LAPS.

4.

REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER. SEE ACI FOR TOLERANCES:

A.

CONCRETE POURED AGAINST EARTH: 3"

B.

FORMED CONCRETE IN CONTACT WITH EARTH: 2"

C.

CONCRETE EXPOSED TO WEATHER (#6 AND LARGER): 2"

D.

CONCRETE EXPOSED TO WEATHER (#5 AND SMALLER): 1½"

E.

SLABS (INCLUDING SLAB SUPPORTING EARTH), WALLS, AND JOISTS NOT EXPOSED TO WEATHER (#11 AND SMALLER): 1"

F.

OTHER CONCRETE NOT EXPOSED TO WEATHER: 1½"

5.

#5 AND LARGER REINFORCING BARS SHALL NOT BE SPLICED EXCEPT AS LOCATED AND DETAILED ON THE DRAWINGS. #4 AND SMALLER BARS WITH LENGTHS NOT SHOWN SHALL BE CONTINUOUS. PROVIDE CLASS 'B' SPLICE UNLESS NOTED OTHERWISE. ALL BARS IN MASONRY SHALL BE CONTINUOUS, LAPPING 48 BAR DIAMETERS, 2-0" MINIMUM. HORIZONTAL WALL SPLICES SHALL BE STAGGERED. VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AT HORIZONTAL SUPPORTS, SUCH AS FLOOR OR ROOF, UNLESS DETAILED OTHERWISE. ALL BARS ENDING AT THE FACE OF A WALL, COLUMN, OR BEAM SHALL EXTEND TO WITHIN 2" OF THE FAR FACE AND HAVE A 90 DEGREE HOOK, UNLESS OTHERWISE SHOWN.

6.

BARS SHALL BE FIRMLY SUPPORTED AND ACCURATELY PLACED AS REQUIRED BY THE ACI STANDARDS, USING TIE AND SUPPORT BARS IN ADDITION TO REINFORCEMENT SHOWN WHERE NECESSARY FOR FIRM AND ACCURATE PLACING. PROVIDE DOWELS TO MATCH ALL REINFORCEMENT AT POUR JOINTS, UNLESS SHOWN OR NOTED OTHERWISE. ALL DOWELS AND BOLTS SHALL BE ACCURATELY SET IN PLACE BEFORE PLACING CONCRETE. NO WELDING OF REINFORCEMENT (INCLUDING TACK WELDING) SHALL BE DONE UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER. ALL SLAB AND BEAM REINFORCEMENT SHALL BE CHAIRED UP.

7.

IN WALL REINFORCING, CURTAINS CONTAINING VERTICAL AND HORIZONTAL BARS OF THE SAME SIZE, VERTICAL BARS SHALL BE PLACED CLOSEST TO THE WALL SURFACE. IN CURTAINS WHICH VERTICAL AND HORIZONTAL BARS ARE OF DIFFERENT SIZES OR SPACING, THE LAYER WITH THE MOST STEEL SHALL BE PLACED CLOSEST TO THE NEAR SURFACE.

8.

DRAWINGS SHOW TYPICAL REINFORCING CONDITIONS. CONTRACTOR SHALL PREPARE DETAILED PLACEMENT DRAWINGS OF ALL CONDITIONS SHOWING QUANTITY, SPACING, SIZES, CLEARANCES, LAPS, INTERSECTIONS, AND COVERAGE REQUIRED BY THE STRUCTURAL DETAILS, APPLICABLE CODE, AND TRADE STANDARDS. CONTRACTOR SHALL NOTIFY REINFORCING INSPECTOR OF ANY ADJUSTMENTS FROM TYPICAL CONDITIONS WHICH ARE PROPOSED IN PLACEMENT DRAWINGS TO FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.

9.

ALL PRINCIPAL REBAR SHALL TERMINATE WITH A STANDARD HOOK MINIMUM UNLESS SPECIFICALLY DETAILED OTHERWISE. REBAR BENDS SHALL BE MADE COLD. REBAR SHALL NOT BE BENT AFTER ANY PORTION OF THE BAR IS ENCASED IN CONCRETE.

10.

ALL LAP SPLICES ARE CLASS 'B' LAP SPLICES UNLESS NOTED OTHERWISE.

11.

ALL WALL FOOTING REINFORCEMENT SHALL BEND AROUND ALL CORNERS AND EXTEND 36 BAR DIAMETERS OR 18 INCHES WHICHEVER IS LARGER. UNLESS NOTED OTHERWISE.

12.

ALL SLABS ON GRADE LESS THAN 6" IN THICKNESS SHALL BE REINFORCED WITH #4 REBARS AT 16 INCHES ON CENTERS EACH WAY, UNLESS NOTED OTHERWISE. PROVIDE ONE (1) LAYER OF 6X6W2.9XW2.9 WELDED WIRE FABRIC CONTINUOUS FOR EVERY 3" ARCHITECTURAL CONCRETE FILLS ABOVE THE STRUCTURAL SLAB.

13.

ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT PADS LESS THAN 4" THICK SHALL BE REINFORCED WITH AT LEAST ONE (1) LAYER OF 6X6W2.9XW2.9 WELDED WIRE FABRIC AND HAVE HOOKED DOWELS (#3 AT 12" ON CENTERS) INTO THE STRUCTURAL SLAB. UNLESS NOTED OTHERWISE. FOR PADS GREATER THAN 4 INCHES THICK, USE REINFORCING AS SHOWN IN THE TYPICAL DETAILS.

14.

ADDITIONAL REINFORCEMENT SHALL BE PROVIDED AROUND ALL SLAB AND WALL OPENINGS INCLUDING DIAGONAL BARS WITHOUT EXCEPTION.

15.

ALL STRUCTURAL CONCRETE ELEMENTS REQUIRE REINFORCEMENT SINCE NO PLAIN CONCRETE ELEMENTS ARE USED. ALL CONCRETE SLABS SHALL HAVE A MINIMUM REINFORCEMENT PERCENTAGE OF 0.0018 EACH WAY CONTINUOUS.

CONCRETE

1.

CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS NOTED OTHERWISE. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.

2.

ALL STRUCTURAL CONCRETE SHALL BE DESIGNED BY THE CONCRETE MIX ENGINEER FOR THE PROJECT WITH CRITERIA :

A.

ALL CONCRETE U.N.O.: 3000 PSI NORMAL WEIGHT

3.

ALL STRUCTURAL CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED LABORATORY AND SHALL BE STAMPED AND SIGNED BY A CIVIL ENGINEER LICENSED IN CALIFORNIA.

4.

CONCRETE MIXES SHALL BE PREPARED WITH TYPE II/IV PORTLAND CEMENT CONFORMING TO ASTM C150. CONCRETE MIX DESIGNS CONTAINING FLY ASH MAY BE USED WHERE CONCRETE IS NOT VISUALLY EXPOSED. FLY ASH SHALL CONFORM WITH ASTM C618 AND MAY REPLACE UP TO 15% PORTLAND CEMENT BY VOLUME.

5.

NORMAL WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33. LIGHT WEIGHT CONCRETE AGGREGATES SHALL CONFORM TO ASTM C330.

6.

NO MORE THAN ONE GRADE OF CONCRETE SHALL BE ON THE JOB SITE AT ANY ONE TIME.

7.

THOROUGHLY CLEAN AND ROUGHEN ALL HARDENED CONCRETE AND MASONRY SURFACES TO RECEIVE NEW CONCRETE. INTERFACE SHALL BE ROUGHENED TO A FULL AMPLITUDE OF 1/4" UNLESS NOTED OTHERWISE.

8.

KEY AND DOWEL POUR JOINTS AS SHOWN ON THE PLANS. ANY DEVIATION FROM POUR JOINTS SHOWN ON THE PLANS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE.

9.

NON-SHRINK CEMENT GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.

10.

DEFECTIVE CONCRETE (VOIDS, ROCK POCKETS, HONEYCOMBS, CRACKING, ETC.) SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

STRUCTURAL STEEL

1.

FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AND THE LATEST EDITION OF AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS. WHERE THE STRUCTURAL STEEL IS EXPOSED, FABRICATION AND ERECTION SHALL ALSO BE IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL.

2.

STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION AS INDICATED BELOW (U.N.O.):

A.

ALL WIDE FLANGE SHAPES A992, GRADE 50

B.

STEEL ANGLES A36

C.

ALL PLATES A36

D.

HSS (RECTANGULAR AND SQUARE) A500, GRADE B OR C

E.

HSS (ROUND) A500, GRADE B OR C

F.

PIPE COLUMNS A53, GRADE B

G.

CHANNELS (C AND MC SECTIONS) A36

H.

ALL OTHER STRUCTURAL SECTIONS A572, GRADE 50

I.

STEEL TO STEEL CONNECTION BOLTS A325X

J.

ANCHOR BOLTS, MACHINE BOLTS, THREADED RODS GRADE 36 (F1554 GR36, A36, A307-S1)

K.

NUTS FOR BOLTS AND MACHINE BOLTS A563

L.

HARDENED WASHERS F436

M.

UNHARDENED WASHERS F444

N.

PLAIN WASHERS ANSI B18.22.1

O.

BEVELED WASHERS ANSI B18.23.1

3.

WHEN FABRICATING SIMPLY SUPPORTED BEAMS, PLACE NATURAL CAMBER UP.

4.

SPLICE MEMBERS ONLY WHERE INDICATED.

5.

HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. HIGH STRENGTH BOLTS SHALL BE BEARING TYPE WITH THREADS EXCLUDED FROM THE FROM THE SHEAR PLANES (I.E. A325-X) UNLESS NOTED OTHERWISE.

6.

ALL BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS SHOWN OTHERWISE. MINIMUM SIZE OF BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL BE ¾" DIA. EXCEPT WHEN OTHERWISE SHOWN OR NOTED.

7.

ALL HOLES SHALL BE STANDARD DIAMETER U.N.O.

8.

ALL FLANGE STIFFENER PLATES SHALL BE ORIENTED SO THAT ROLLING DIRECTION OF PLATE IS PARALLEL WITH DIRECTION OF PRINCIPAL STRESS.

9.

AFTER FABRICATION, ALL STEEL SHALL BE CLEANED FREE OF RUST, LOOSE MILL SCALE AND OIL.

10.

PROVIDE FILLS AT SPLICES OF PARTS HAVING MORE THAN 1/8" DIFFERENCE IN THICKNESS.

11.

PROVIDE BEVELED WASHERS ON ALL CONNECTIONS WHERE SLOPE SURFACE EXCEEDS 1:20.

12.

HEADED ANCHOR STUDS AND THREADED STUDS SHALL BE NELSON GRANULAR FLUX-FILLED, AND SHALL BE MADE FROM COLD FINISHED LOW CARBON STEEL, CONFORMING TO A-108, GRADES 1015 - 1020 WITH A MINIMUM TENSILE STRENGTH OF 60,000 PSI. (COLA RR 2729). STUD WELDING INSPECTION AND TESTING SHALL CONFORM TO AWS D1.1.

13.

DEFORMED BAR ANCHOR STUDS SHALL BE NELSON DZL GRANULAR FLUX-FILLED REBAR STUDS OR APPROVED EQUAL, AND SHALL BE MADE OF LOW CARBON COLD ROLLED STEEL WITH A MINIMUM TENSILE STRENGTH OF 80,000 PSI. STUD WELDING INSPECTION AND TESTING SHALL CONFORM TO AWS D1.1.

14.

HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.

15.

THE FULL DESIGN AND LOAD CARRYING CAPACITY OF THE STEELWORK SHALL NOT BE IMPAIRED DUE TO FABRICATION, SHIPMENT, OR ERECTION PROCEDURES. THROUGHOUT THE COMPLETE PROCESS, THE STABILITY OF ALL INDIVIDUAL MEMBERS AND ASSEMBLIES SHALL BE MAINTAINED.

16.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS AND WELD SHRINKAGE.

17.

ALL ADDITIONAL STEEL REQUIRED FOR ERECTION PURPOSES SHALL BE PROVIDED AT NO ADDITIONAL COST AND SHALL BE REMOVED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE IN WRITING.

GENERAL

1.

ALL NEW CONSTRUCTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND THE 2019 CALIFORNIA BUILDING CODE.

2.

REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.

3.

TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE (U.N.O.)

4.

THE STRUCTURAL DRAWINGS ILLUSTRATE THE NEW STRUCTURAL MEMBERS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRE SPECIAL PROVISIONS DURING THE CONSTRUCTION OF THE STRUCTURAL MEMBERS.

5.

REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEPRESSIONS, EDGE OF SLAB, OPENINGS, SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, NON-BEARING PARTITIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, OPENINGS, AND HANGERS FOR PIPES, DUCTS AND EQUIPMENT.

6.

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS WHICH IMPACT THE WORK. FIELD VERIFY SIZES, ELEVATIONS, HOLE LOCATIONS, ETC. PRIOR TO FABRICATION.

7.

DRAWING DIMENSIONS ARE TO FACE OF STRUCTURE, JOINT CENTERLINE OR COLUMN GRID CENTERLINE UNLESS NOTED OTHERWISE. DO NOT SCALE THE DRAWINGS.

8.

CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED. VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.

9.

EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.

10.

THE CONTRACTOR SHALL RESOLVE ANY CONFLICTS ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

11.

ANY DEVIATION, MODIFICATION & SUBSTITUTION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS & PRIOR TO PROCEEDING WITH THE WORK.

12.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORES, BRACES, GUYS, HOIST BEAM, REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE AND COMPONENTS, SOILS, OTHER STRUCTURES AND UTILITIES MAY BE SUBJECTED DURING CONSTRUCTION. SHORING SYSTEMS SHALL BE DESIGNED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.

13.

THE CONTRACTOR SHALL PROVIDE MEANS, METHOD, TECHNIQUES, SEQUENCE AND PROCEDURE OF CONSTRUCTION AS REQUIRED. SITE VISITS PERFORMED BY THE OWNER'S REPRESENTATIVE DO NOT INCLUDE INSPECTIONS OF MEANS AND METHODS OF CONSTRUCTION PERFORMED BY CONTRACTOR.

14.

THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.

15.

A COPY OF ANY REQUIRED LOS ANGELES RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.

16.

ATTACHMENT OF NON-STRUCTURAL COMPONENTS SPECIFIED BY OTHERS TO STRUCTURAL ELEMENTS SHALL BE SPECIFIED BY THE NON-STRUCTURAL COMPONENT DESIGNER/SPECIFIER/INSTALLER. DESIGNER OF NON-STRUCTURAL ELEMENTS SHALL AT A MINIMUM SPECIFY THE CONNECTION TO THE STRUCTURE INCLUDING BUT NOT LIMITED TO: ANY TYPE OF CONNECTING HARDWARE, WIRE, HANGERS, FASTENERS, CLIPS, UNISTRUT MEMBERS. NON STRUCTURAL ELEMENTS SHALL INCLUDE, BUT NOT LIMITED TO: MEP AND HVAC EQUIPMENT & THEIR SUPPORTING PADS, PLATFORMS, FRAMES, ETC.; DUCTWORK, PIPES, CONDUITS, ARTWORK, GRILLES, GRATING, METAL SCREENS, ELEVATOR RAILS, STONE FINISH TILES, STONE CAPS, BRICK VENEER.

DESIGN CRITERIA

DESIGN IS BASED ON 2019 CALIFORNIA BUILDING CODE (2019 CBC).

ROOF LOADS:
LIVE LOAD: 20.0 PSF
DEAD LOAD: 20 PSF + BEAM SELF WEIGHT

MEZZANINE LOADS:
LIVE LOAD: 125 PSF
DEAD LOAD: 15 PSF

SEISMIC FACTORS:
S_s = 1.994
S_i = 0.75
SITE CLASS: D - DEFAULT
F_a = 1.2
S_{0.8} = 1.595
SEISMIC DESIGN CATEGORY: E
RISK CATEGORY: III
BASIC SEISMIC FORCE RESISTING SYSTEM: EQUIPMENT AND COMPONENT ANCHORAGE
a_p = 2.5
R_p = 2.0
F_p = 0.80 W₀ (ROOF TOP UNITS)

WIND FACTORS:
WIND SPEED = 100 MPH
IMPORTANCE FACTOR = 1.0
EXPOSURE CATEGORY = C
RISK CATEGORY = III
BUILDING HEIGHT = 17'-6" FT

PROJECT TITLE

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT

AMADOR WHITTLE
ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
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CONSULTANT

Orion Structural

Orion Structural Group, Inc.
233 East Thousand Oaks Boulevard, Suite 304
Thousand Oaks, California 91366 - 7734
Phone: 805.390.9242 Fax: 805.494.0488 O.S.G. # 21607

STAMPS/SEALS

DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

GENERAL NOTES

PROJECT NO.: 21-VCCCD-005	PROJECT ARCH: WJA
DRAWN: CRUZ REYES	CHECKED: WILL LAMBERT

SHEET NUMBER:

S000

DATE: 02/25/2022 SHEET: ____ OF ____

FRAMING LUMBER

1. PROVIDE GRADE-MARKED DOUGLAS FIR STRUCTURAL LUMBER COMPLYING WITH STANDARD GRADING RULE NUMBER 16 OF THE WEST COAST LUMBER INSPECTION BUREAU. PROVIDE 'S' DRY LUMBER WITH A 19% MAX. MOISTURE CONTENT. WOOD JOISTS AND BEAMS WITH MORE THAN 2 FRAMED LEVELS ABOVE THEM SHALL BE MC15 (15% MOISTURE MAX. LUMBER).
2. ALL LUMBER SHALL BE STRESS GRADED DOUGLAS FIR NO. 2, UNLESS NOTED OTHERWISE. ALL 4x10 BEAMS OR LARGER AND 6x8 BEAMS OR LARGER SHALL BE DOUGLAS FIR NO. 1.
3. ALL LUMBER IN DIRECT CONTACT WITH CONCRETE OR MASONRY, INCLUDING BUT NOT LIMITED TO FOUNDATION SILLS, SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED DOUGLAS FIR.
4. WOOD STRUCTURAL PANELS SHALL COMPLY WITH U.S. PRODUCT STANDARDS FOR ITS TYPE IN PS 1-09 OR PS 2-10 AND BE CLASSIFIED AS EXPOSURE 1. AS A MINIMUM ALL WOOD STRUCTURAL PANELS SHALL BE APA RATED SHEATHING UNLESS NOTED OTHERWISE ON PLANS AND DETAILS. PANEL CONSTRUCTION FOR ALL WOOD STRUCTURAL PANELS SHALL BE 5 PLY PLYWOOD, EXCEPT THAT OSB IS PERMITTED FOR WALL SHEATHING. ALL WOOD STRUCTURAL PANELS SHALL BE BLOCKED AT UNSUPPORTED EDGES. WALL PANELS SHALL BE 15/32 INCH, PANEL INDEX (P.I.) 32/16 U.N.O. ALL WOOD STRUCTURAL PANELS MUST BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
5. ALL NAILS SHALL BE COMMON WIRE NAILS. NAILING TO BE IN ACCORDANCE WITH CBC 2019 NAILING SCHEDULE UNLESS NOTED OTHERWISE. 1 1/2" OF PENETRATION FOR 10d AND 16d IS REQUIRED. PENETRATION IS MEASURED INTO THE PIECE RECEIVING THE NAIL POINT. ALL NAILS SHALL BE GALVANIZED WHEN EXPOSED TO WEATHER. PRE-DRILL ALL NAILS 20d OR LARGER.
6. LAG SCREWS SHALL BE TURNED, NOT DRIVEN, INTO PRE DRILLED HOLES. PROVIDE LEAD HOLE 40% TO 70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.
7. ALL FRAMING HARDWARE SHALL BE STRONG-TIE CONNECTORS AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, UNLESS NOTED OTHERWISE. INSTALL PER MANUFACTURERS' RECOMMENDATIONS AND ICC REQUIREMENTS. ALL BOLTS IN HOLD-DOWN ANCHORS SHALL BE TORQUE PER MANUFACTURERS REQUIREMENTS.
8. INSTALL HOLDDOWNS 14 INCH MINIMUM ABOVE THE PLATE TO ALLOW FOR TIGHTENING ANCHOR BOLT. THE HOLD DOWN SHALL BE INSTALLED TIGHT TO THE POST WITHOUT FILLERS OR DAPPING. DO NOT BEND HOLD DOWN ANCHORS. HOLD DOWN HARDWARE SHALL BE IN PLACE PRIOR TO FOUNDATION INSPECTION HOLD DOWN SHALL BE FINGER-TIGHT AND ½ WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. UPPER FLOOR HOLD DOWNS SHALL BE CONTINUED TO THE FOUNDATION PER TYPICAL DETAILS.
9. HOLDDOWNS WITH THRU BOLT CONNECTIONS INTO WOOD FRAMING REQUIRE A 0.229"X3"x3" PLATE WASHER ON POST OPPOSITE TO HOLDOWN.
10. ALL BOLTS IN WOOD SHALL BE A307 STANDARD BOLTS. HOLES SHALL NOT BE MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER.
11. DO NOT CUT, BORE, COUNTERSINK OR NOTCH WOOD MEMBERS EXCEPT WHERE SHOWN IN THE DETAILS.
12. PROVIDE DOUBLE JOISTS BENEATH ALL PARALLEL WALLS. PROVIDE SOLID BLOCK BENEATH ALL WALLS PERPENDICULAR TO JOISTS.
13. JOISTS OR RAFTERS FRAMING FROM OPPOSITE SIDES OF BEAMS OR WALLS SHALL HAVE A LAP OF 4" OR MORE AND BE SPLICED WITH 4-16D NAILS, UNLESS NOTED OTHERWISE.
14. HOT DIP GALVANIZED FASTENERS SUCH AS - BUT NOT LIMITED TO - NAILS, SCREWS, BOLTS, THREADED ROD, ETC., SHALL BE USED WHEN IN CONTACT WITH PRESERVATIVE OR FIRE RETARDANT TREATED LUMBER. EXCEPTION: NON-HOT-DIP-GALVANIZED STEEL FASTENERS IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.
15. FRAMING CLIPS TO COMPLY WITH (ICC-ESR 3096) TO COMPLY WITH (ICC-ESR 2105, I.A. RR 25713).
16. WHERE WOOD MEMBERS ARE TO BE CONNECTED TO STEEL ELEMENTS, AS A MINIMUM PROVIDE 2x NAILERS W/ 5/8" DIA. WELDED THREADED STUDS @ 24" O.C. IF THE THREADED STUDS NEED TO BE COUNTERSUNK FOR FINISH INSTALLATION, INSTALL 3x NAILERS.
17. GLUE BETWEEN WOOD STRUCTURAL PANELS AND WOOD FRAMING MEMBERS SHALL BE APPLIED TO REDUCE SQUEAKINESS OF OCCUPIABLE SPACES. GLUE SHALL CONFORM TO APA PERFORMANCE SPECIFICATION AFG-01 OR ASTM D3498. INSTALL AS DIRECTED PER APA FORM NO. Q300P.
18. ANCHOR BOLTS SHALL BE 5/8" DIAMETER, MINIMUM. ANCHOR BOLTS SHALL BE EMBEDDED A MINIMUM OF 7 INCHES, MINIMUM INTO THE CONCRETE, FOOTING OR MASONRY AND SHALL BE SPACED AT 36 INCHED ON CENTER, MAXIMUM UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FOR ANCHOR BOLT SIZE AND SPACING AT SHEAR WALL LOCATIONS REFER TO THE SHEAR WALL SCHEDULE. EACH SILL PLATE SHALL HAVE A MINIMUM OF TWO (2) ANCHOR BOLTS. ANCHOR BOLTS SHALL BE LOCATED NOT MORE THAN 12 INCHES OR LESS THAN SEVEN (8) BOLT DIAMETERS FROM THE END OF EACH SILL PLATE. ALL ANCHOR BOLTS SHALL HAVE A MINIMUM OF A THREE (3) INCH SQUARE BY 5/16 INCH THICK STEEL PLATE WASHER. SEE ALSO TYPICAL DETAILS.

MECHANICAL & ADHESIVE ANCHORS

1. EPOXY ANCHORS AND DOWELS INSTALLED INTO CONCRETE:
A. "SET-3G" BY SIMPSON STRONG TIE (COLA RR#4057, ESR#4057)
2. ADHESIVE ANCHORS: GRADE 36 THREADED ROD (F1554 GRADE 36, OR A36, OR A307-S1) WITH ASTM A 563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS NOTED OTHERWISE.
3. ADHESIVE DOWELS: ASTM A615 (OR ASTM A706) GRADE 60 REINFORCING STEEL.
4. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC-ES REPORT AND COLA REPORT AND MANUFACTURERS RECOMMENDATIONS.
5. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM EMBEDMENT OF ANCHORS PER ICC-ES REPORT, COLA REPORTS & MANUFACTURERS RECOMMENDATIONS.
6. CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL OR ADHESIVE ANCHORS. AT CONTRACTOR OPTION, OVERSIZED HOLES AND WELDED PLATE WASHERS CAN BE USED IN LIEU OF STANDARD DIAMETER HOLES. SIZE & WELD
7. PRIOR TO ALL DRILLING OR CORING, THE CONTRACTOR SHALL (1) VERIFY THE EXISTING CONCRETE OR MASONRY THICKNESS TO PREVENT DAMAGE TO THE OPPOSITE FACE OF CONCRETE AND MAINTAIN 1-1/2" CLEAR COVER U.N.O., AND (2) IDENTIFY EXISTING REINFORCING LOCATIONS BY PACHHOMETER, PROBING, CHIPPING, ETC. TO AVOID DAMAGE EXISTING REINFORCING.
8. 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 ENGINEER WILL DETERMINE A NEW LOCATION.
9. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
10. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE OR GROUT HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION.
11. FOR EXTERIOR AND FOR EXPOSED APPLICATIONS PROVIDE HOT DIP GALVANIZED OR STAINLESS STEEL ANCHORS.

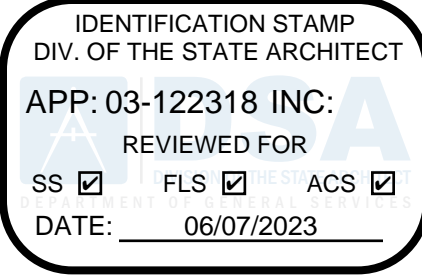
TESTING FOR MECHANICAL AND ADHESIVE ANCHORS

1. POST INSTALLED ANCHOR TEST FREQUENCY (UNLESS SPECIFICALLY NOTED):
A. SHEAR WALL SILL PLATE SHEAR ANCHORS: 10%
B. ANCHORS AT MECHANIC UNITS: 50%
C. EPOXY DOWELS AT NEW TO EXISTING SLAB ON GRADE: NO TEST
D. ALL OTHER ANCHORS: 50%
2. TEST ACCEPTANCE CRITERIA:

A. EPOXY ANCHOR TEST WITH HYDRAULIC JACK: MAINTAIN LOAD FOR 15 SECONDS WITH NO DISCERNABLE MOVEMENT.
B. EXPANSION ANCHOR TEST WITH TORQUE WRENCH: OBTAIN SPECIFIED TORQUE WITHIN ½ TURN OF NUT
C. SCREW TYPE ANCHOR TEST WITH TORQUE WRENCH: OBTAIN SPECIFIED TORQUE WITHIN ¼ TURN OF SCREW
3. TEST LOADS (UNLESS SPECIFICALLY NOTED):
A. MECHANICAL ANCHOR: MANUFACTURER'S MINIMUM INSTALLATION TORQUE
B. EPOXY ANCHOR: AS NOTED IN DETAIL

STRUCTURAL STEEL WELDING

1. ALL WELDING SHALL BE IN STRICT CONFORMANCE WITH THE LATEST EDITION OF AWS D1.1 AND THE 2019 CALIFORNIA BUILDING CODE.
2. ALL WELDING ELECTRODES (FILLER METAL) SHALL BE E7XXX (70 KSI), U.N.O., AND SHALL BE LOW HYDROGEN TYPES. FIELD WELDING OF FULL AND PARTIAL PENETRATION WELDS OF THE STEEL MOMENT FRAME CONNECTIONS BETWEEN MOMENT FRAME BEAMS AND MOMENT FRAME COLUMNS SHALL BE BY SHIELDED METAL ARC PROCESS USING LOW HYDROGEN ELECTRODES
3. ALL WELDS SHALL HAVE A FILLER METAL WITH CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AVERAGE AT -20 DEGREES FAHRENHEIT AND 40 FT/LBS @ 70 DEGREES FAHRENHEIT. CERTIFY CONFORMANCE TO CHARPY V-NOTCH TOUGHNESS REQUIREMENTS WITH TESTS BY AN INDEPENDENT TESTING LABORATORY.
4. LENGTHS OF WELDS ARE EFFECTIVE LENGTHS AS SPECIFIED IN THE APPLICABLE CODE. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE FULL LENGTH OF JOINT. ALL BUTT WELDS SHALL BE FULL PENETRATION, UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL PROVIDE FIELD WELDING AS REQUIRED FOR CONSTRUCTION. WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.
6. ALL SHOP WELDS SHALL BE PERFORMED BY A LOS ANGELES CITY LICENSED FABRICATOR.
7. ALL WELDERS SHALL BE QUALIFIED FOR THE WORK THEY WILL BE DOING & SHALL HAVE CURRENT CERTIFICATIONS BY AWS & THE CITY OF LOS ANGELES.
8. FACES OF FILLET WELDS EXPOSED TO VIEW SHALL HAVE AS-WELDED SURFACES THAT ARE REASONABLY SMOOTH AND UNIFORM. NO FINISHING OR GRINDING SHALL BE REQUIRED, EXCEPT WHERE CLEARANCES OR FIT OF OTHER ITEMS MAY SO NECESSITATE.
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. CLEAN GROOVE PREPARATION THERMAL CUTS BY GRINDING.
11. 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.
12. 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.
13. THE CONTRACTOR SHALL SUBMIT ALL WELDING PROCEDURE SPECIFICATIONS (WPS) TO BE USED ON THE PROJECT PER THE LATEST EDITION OF AWS D1.1. THE WPS SHALL INCLUDE ALL MANUFACTURER'S DATA SHEETS FOR ALL WELDING MATERIALS TO BE USED. THE DATA SHEETS SHALL DESCRIBE THE PRODUCTS, LIMITATIONS OF USE, RECOMMENDED WELDING PARAMETERS, AND STORAGE AND EXPOSURE REQUIREMENTS.
14. ELECTRODES SHALL BE RECEIVED AND STORED IN THE ORIGINAL, UNDAMAGED MANUFACTURER PACKAGING, UNTIL READY FOR USE. WHEN WELDING IS TO BE SUSPENDED FOR MORE THAN 8 HOURS, ELECTRODES SHALL BE REMOVED FROM THE MACHINES AND STORED IN AN ELECTRODE WIRE OVEN MAINTAINED AT A TEMPERATURE BETWEEN 250 DEGREES AND 550 DEGREES OR AS RECOMMENDED BY THE MANUFACTURER. ELECTRODES NOT CONSUMED WITHIN 24 HOURS OF ACCUMULATED EXPOSURE OUTSIDE CLOSED OR HEATED STORAGE SHALL NOT BE USED.
15. ALL BOTTOM FLANGE BACKING BARS SHALL BE REMOVED. FOLLOWING REMOVAL OF BACKING, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL AND BACKWELDED UNTIL FLUSH OR WITH SLIGHT REINFORCEMENT. THE SURFACE SHALL BE GROUND SMOOTH TO A SURFACE ROUGHNESS NOT TO EXCEED 500 MICROINCHES.

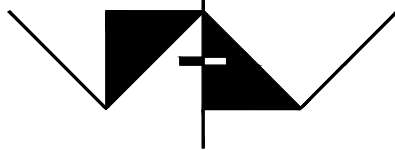


PROJECT TITLE

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



AMADOR WHITTLE
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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

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SHEET TITLE:

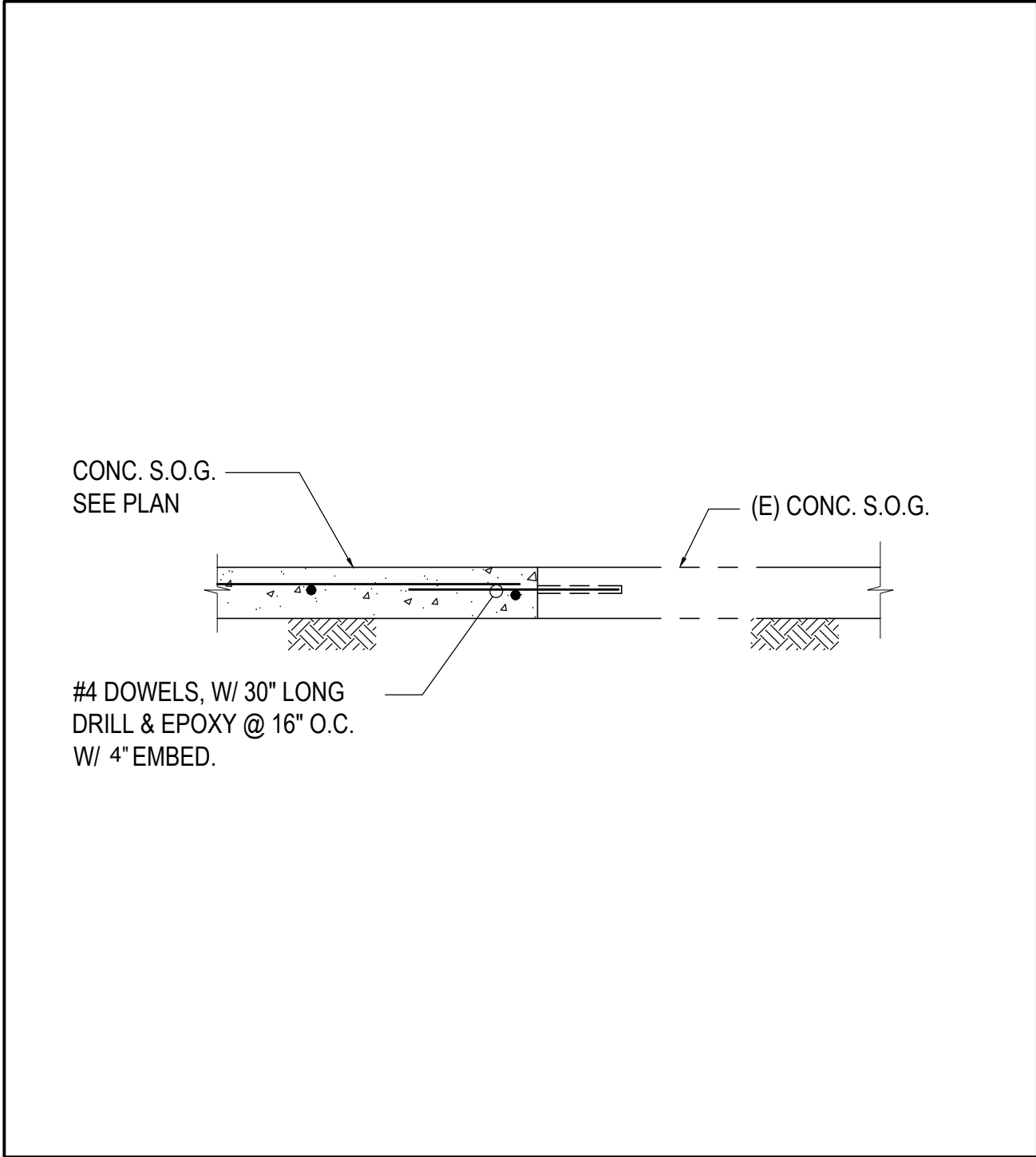
GENERAL NOTES

PROJECT NO.: 21-VCCCD-005	PROJECT ARCH: WJA
DRAWN: CRUZ REYES	CHECKED: WILL LAMBERT

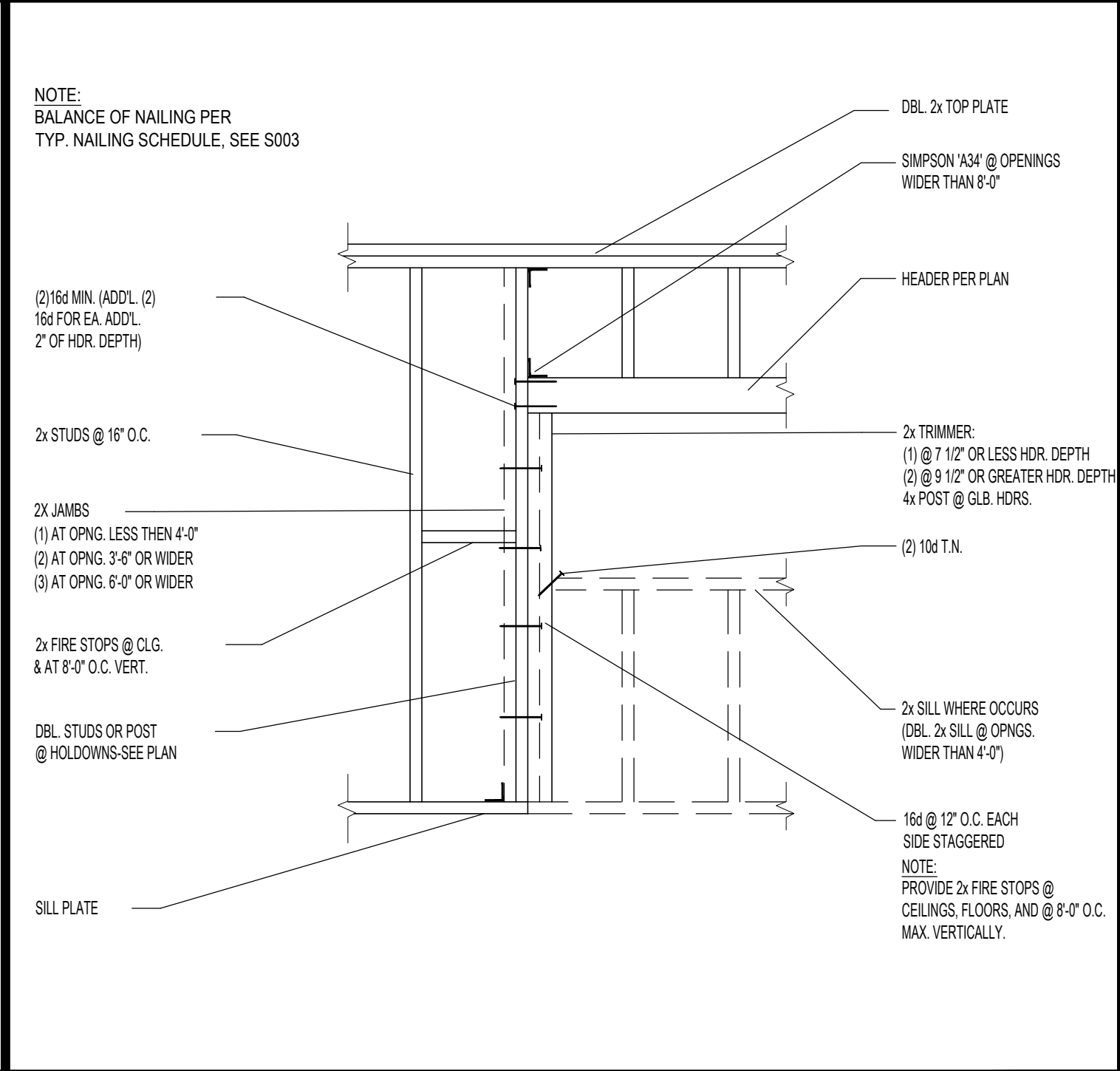
SHEET NUMBER:

S001

DATE: 02/25/2022	SHEET: ____ OF ____
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TYP. (N) S.O.G. TO (E) S.O.G. SCALE: 1"=1'-0" T9

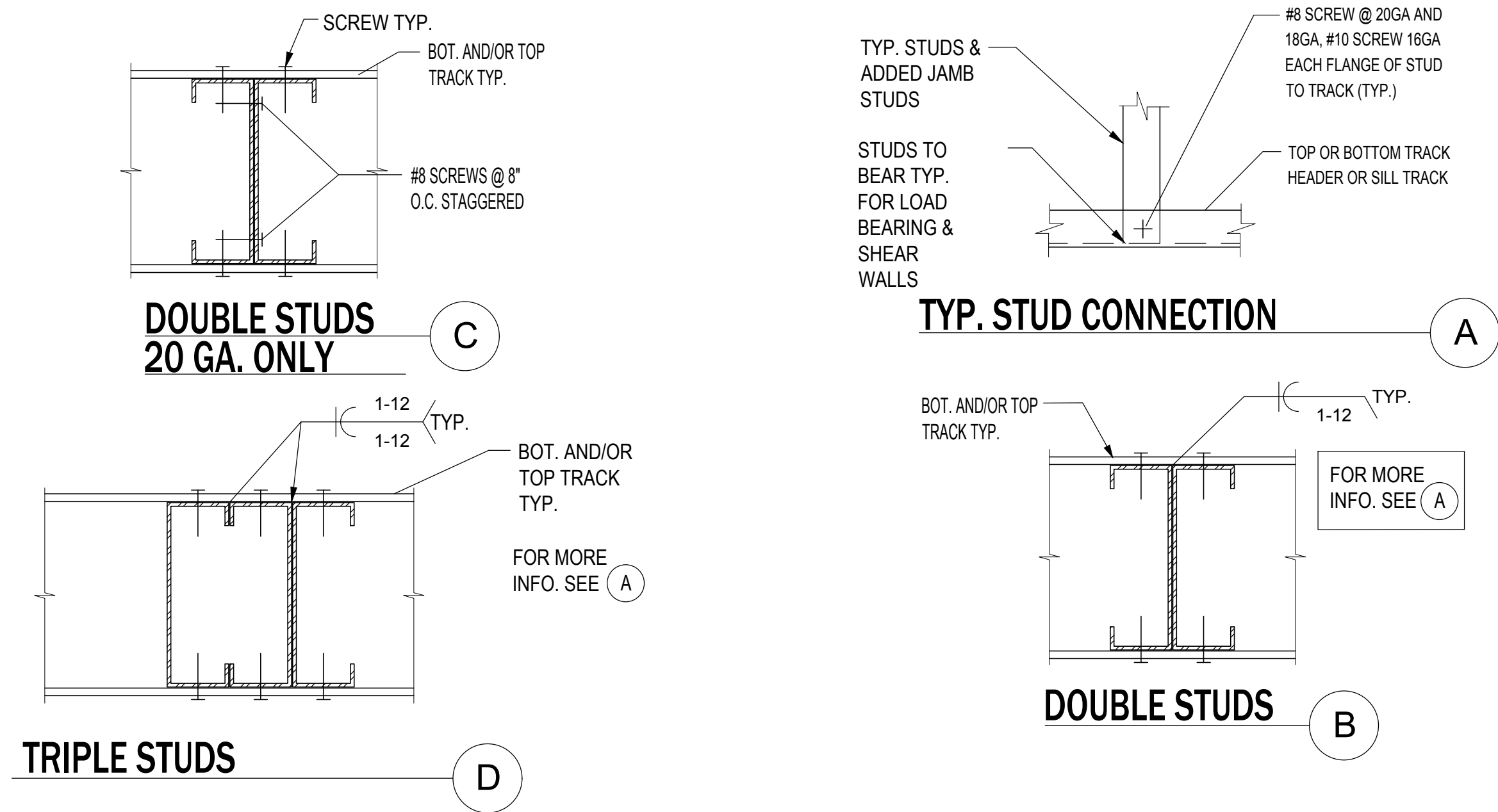


TYPICAL BEARING WOOD HEADER SCALE: 1"=1'-0" T7

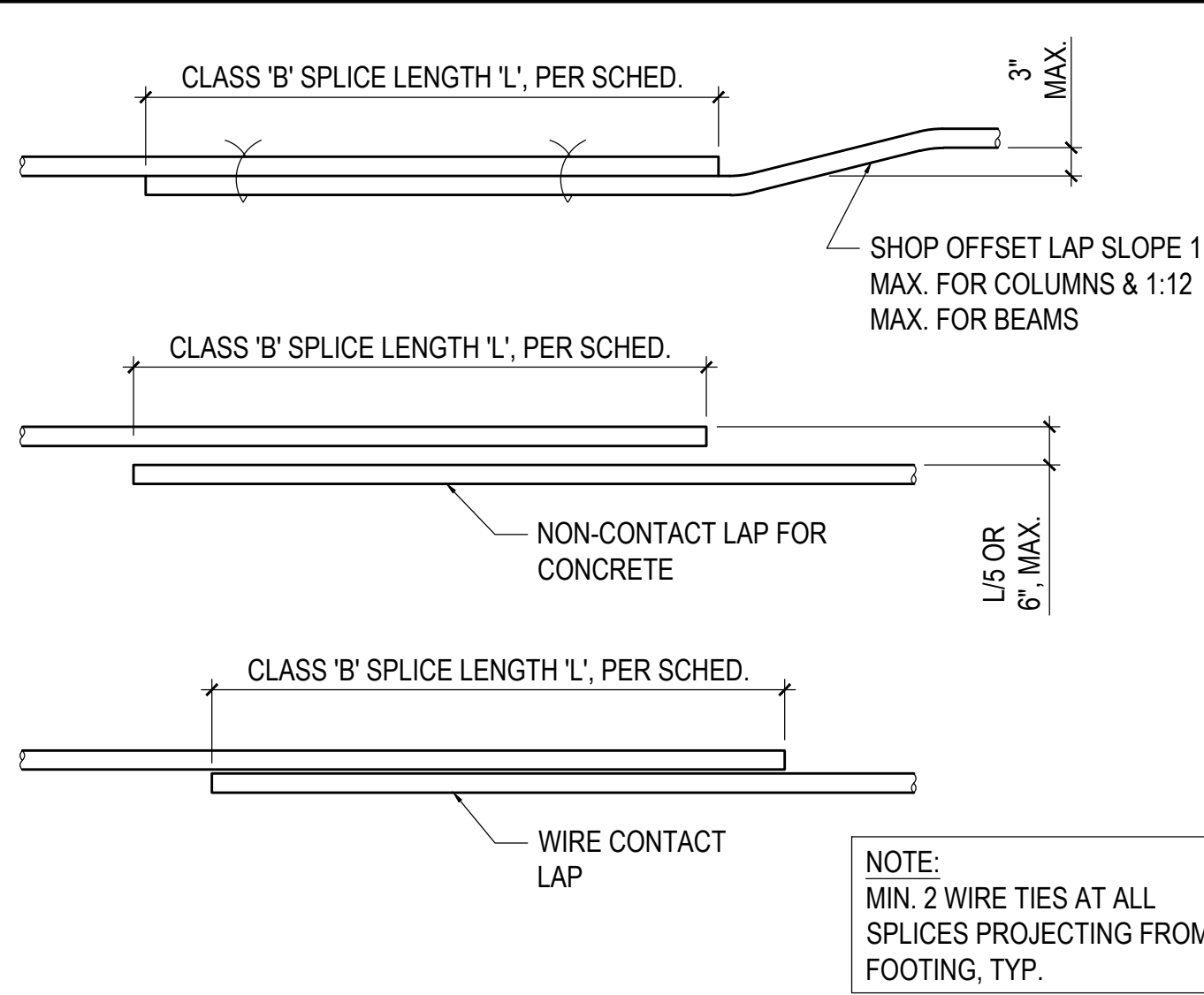
TYP. STUD SCHEDULE				MIN. GROSS SECTION PROPERTIES		
MAX. WALL HT.	MIN. STUD SIZE (SEE NOTE 4)	IDENTIFICATION	SPACING	A (IN ²)	I _x (IN ⁴)	S _x (IN ³)
15'-3" MAX. EXTERIOR	6"X18 GA.	600S162-43	16" O.C.	0.4477	2.316	0.772

NOTES:
1. STUD SIZE BASED ON L/360 DEFLECTION LIMIT FOR EXT. WALLS, L/240 FOR INT. WALLS WITH NO ROCK OR MASONRY VENEER ATTACHED TO THE WALL.
2. STUD FLANGES ON BOTH SIDES OF THE WALL ARE CONT. ATTACHED TO GYP. BOARD, PLY., OR MTL. SIDING. WHERE CONT. ATTACHMENT DOES NOT OCCUR, PROVIDE HORIZONTAL STRAPS PER TYP. STRAPPING DETAIL.
3. MAX. WALL HEIGHT IS THE MAXIMUM VERTICAL SPAN OF THE STUD BETWEEN ATTACHMENTS TO STRUCTURE OR DIAGONAL BRACES.
4. FOR STUD AND TRACK CONNECTION DETAILS AT TOP OF WALL SEE 7/S300
5. FOR STUD AND TRACK CONNECTION DETAILS AT BOTTOM OF WALL SEE 1/S300

METAL STUD SCHEDULE SCALE: 1"=1'-0" T8



TYP. MULTIPLE STUD MENDING SCALE: 1"=1'-0" T9



- NOTES:
- TOP BARS ARE HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE BELOW BARS.
 - BOTTOM BARS INCLUDE ALL VERTICALS, ALL HORIZONTAL WALL REINFORCING, AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF CONCRETE BELOW BARS.
 - A. USE CLASS B SPLICES U.N.O., ADJACENT BAR SPLICES SHALL BE STAGGERED THE GREATER OF THE LENGTH OF SPLICE OR 2'-0".
B. USE CLASS C SPLICES WHERE NOTED.
C. USE CLASS C SPLICES WHERE MORE THAN 49% OF BARS ARE TO BE SPLICED IN ONE LOCATION.
 - SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZE BARS.
 - INCREASE SPLICE LENGTH BY 33% FOR LIGHTWEIGHT CONCRETE.

BAR DEVELOPMENT LENGTH (Ld) SCHEDULE

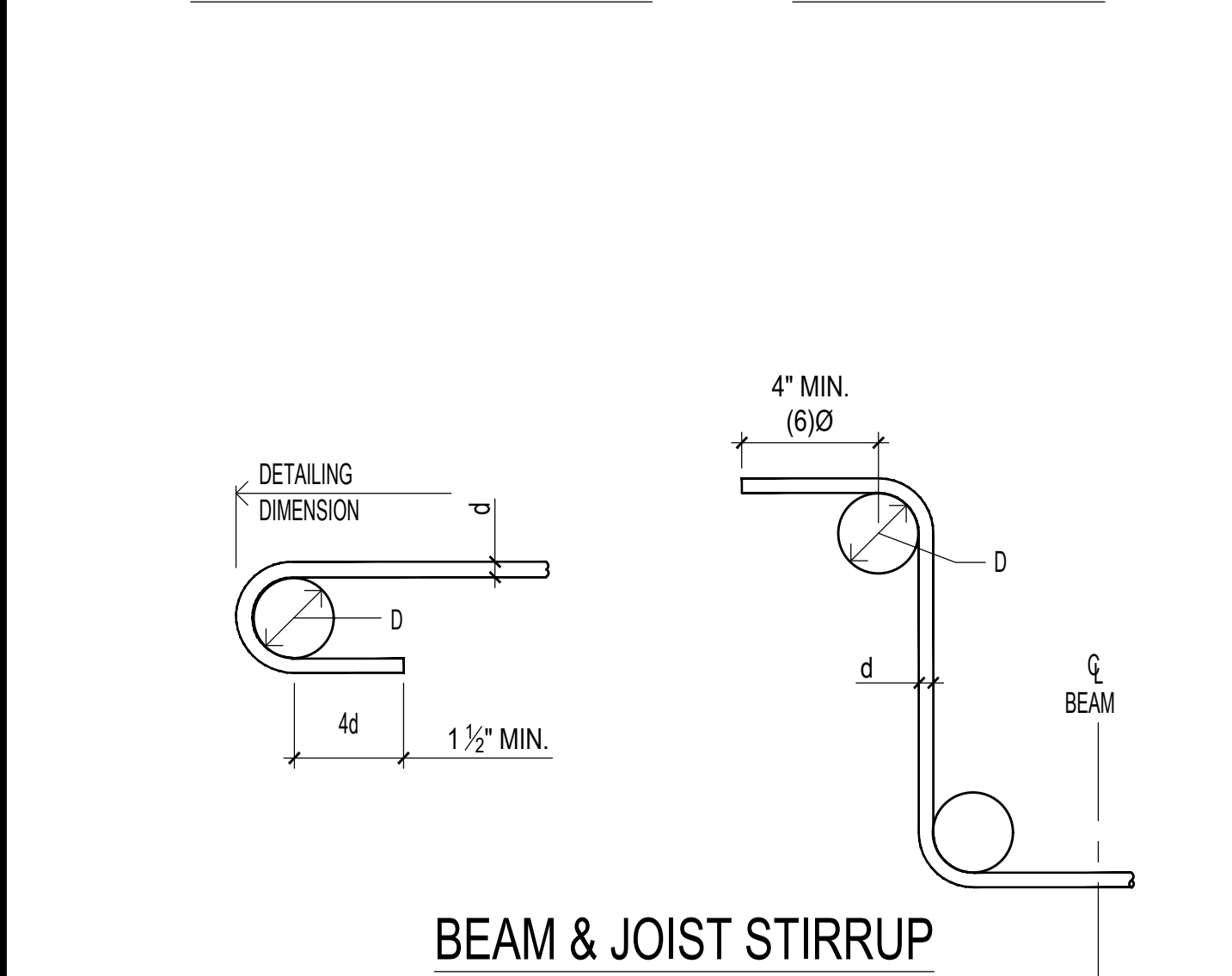
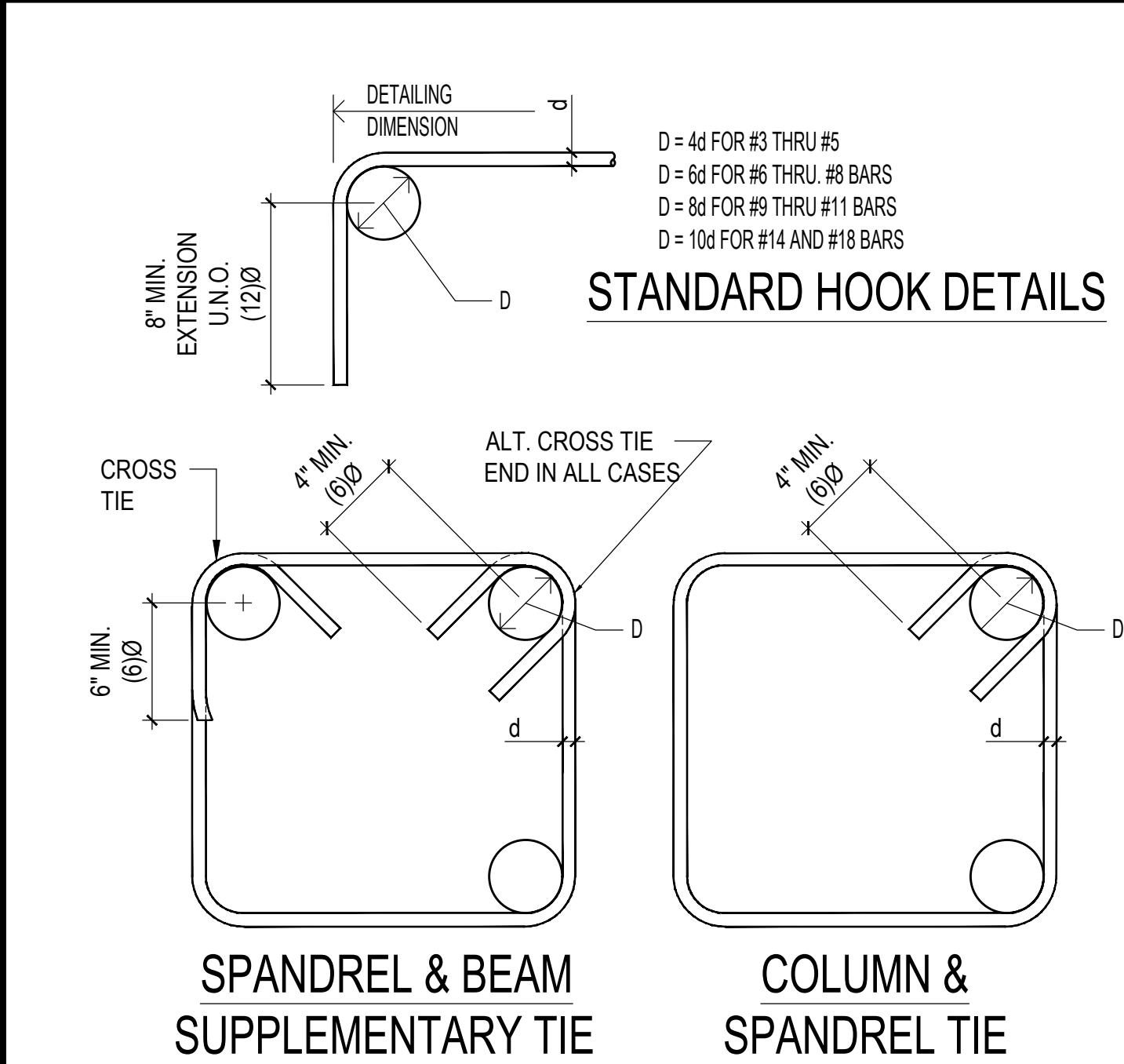
BAR SIZE	F _c = 3000 psi			
	TOP BARS	OTHER BARS		
#3	22"	17"		
#4	29"	22"		
#5	36"	28"		
#6	43"	33"		
#7	63"	48"		
#8	72"	55"		
#9	81"	62"		
#10	90"	69"		
#11	98"	76"		

CLASS 'B' SPLICE LENGTH

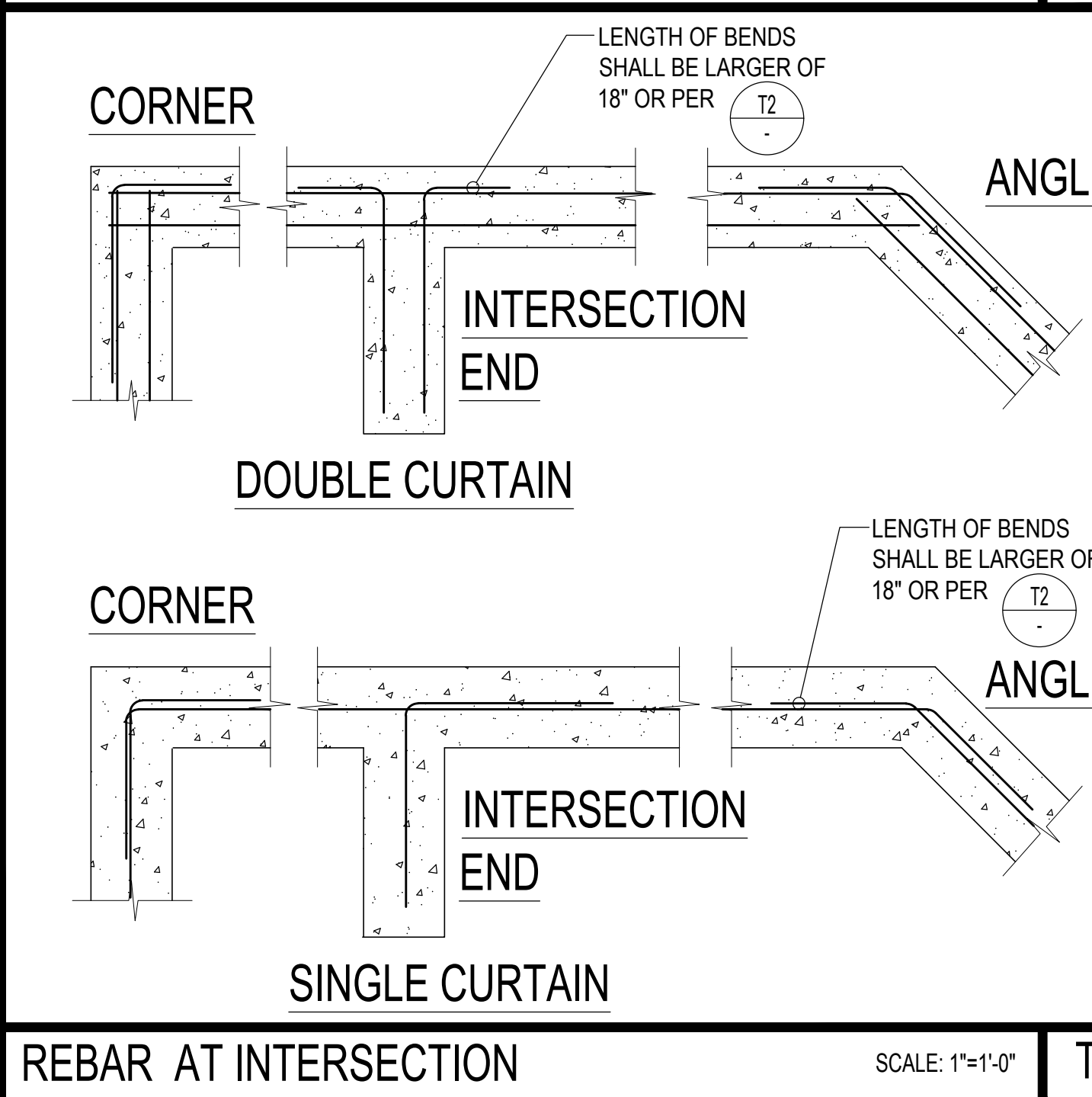
BAR SIZE	F _c = 3000 psi			
	TOP BARS	OTHER BARS		
#3	28"	22"		
#4	38"	29"		
#5	47"	36"		
#6	56"	43"		
#7	81"	63"		
#8	93"	72"		
#9	105"	81"		
#10	116"	90"		
#11	128"	98"		

- NOTES:
- MINIMUM SPLICE LENGTH FOR BARS WITH CLASS 'B' SPLICE PER ACI-318-14, SECTION 25.5.
 - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" CONCRETE CAST IN THE MEMBER BELOW THE REINFORCEMENT.
 - THESE BAR DEVELOPMENT LENGTH APPLY TO REGULAR OR NORMAL WEIGHT CONCRETE, MULTIPLY THE SPECIFIED DEVELOPMENT LENGTH BY 1.33 FOR LIGHT WEIGHT CONCRETE.
 - ALL DETAILING OF REINFORCEMENT SHALL COMPLY WITH THESE SCHEDULES UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.

TYP. REINF. DEVELOPMENT LENGTH & LAP SPLICE SCHEDULE SCALE: 1"=1'-0" T6



TYPICAL STANDARD HOOK DETAIL SCALE: 1"=1'-0" T2



REBAR AT INTERSECTION SCALE: 1"=1'-0" T3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE
**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT
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STAMPS/SEALS

DSA_V3 SUBMITTAL 04/19/2023

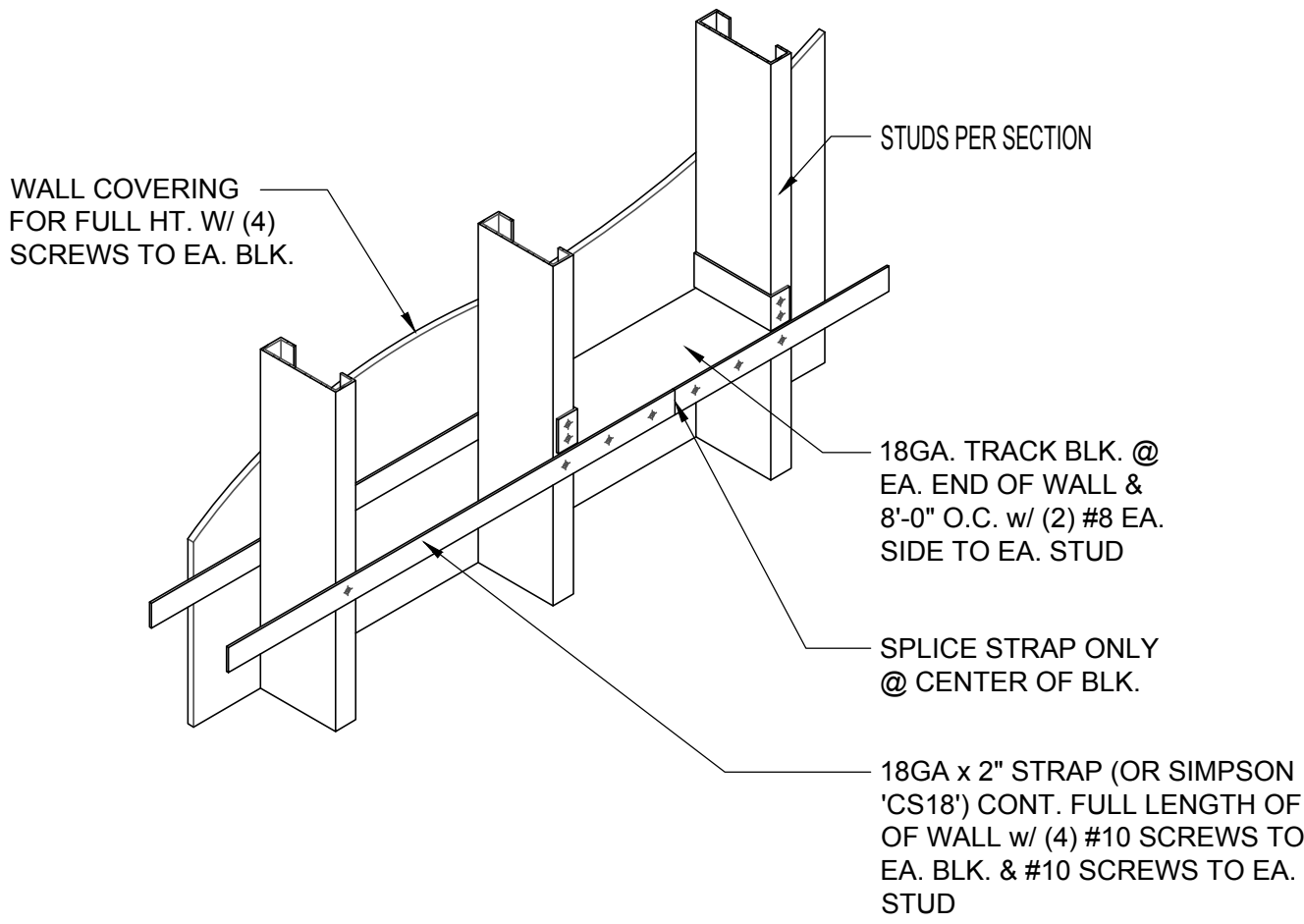
PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: CRUZ REYES CHECKED: WILL LAMBERT
SHEET NUMBER:
S002
DATE: 02/25/2022 SHEET: OF

FASTENING SCHEDULE 2019 CBC, TABLE 2304.10.1		
CONNECTION	FASTENING (a,m)	LOCATION
1. JOIST TO SILL OR GIRDER	(3) 8d COMMON (2 ½" X 0.131") (3) 3" X 0.131" NAILS	TOE NAIL
2. BRIDGING TO JOIST	(2) 8d COMMON (2 ½" X 0.131") (2) 3" X 0.131" NAILS	TOE NAIL EACH END
3. 1"X6" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d COMMON (2 ½" X 0.131")	FACE NAIL
4. WIDER THAN 1"X6" SUBFLOOR TO EACH JOIST	(3) 8d COMMON (2 ½" X 0.131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d COMMON (3 ½" X 0.162")	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d (3 ½" X 0.135") AT 16" O.C. 3" X 0.131" NAIL AT 8" O.C.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	(3) 16d (3 ½" X 0.135") AT 16" (4) 3" X 0.131" NAILS AT 16" O.C.	BRACED WALL PANELS
7. TOP PLATE TO STUD	(2) 8d COMMON (2 ½" X 0.131") (2) 3" X 0.131" NAILS	END NAIL
8. STUD TO SOLE PLATE	(4) 8d COMMON (2 ½" X 0.131") (4) 3" X 0.131" NAILS (2) 16d COMMON (3 ½" X 0.162") (3) 3" X 0.131" NAILS	TOE NAIL END NAIL
9. DOUBLE STUDS	16d (3 ½" X 0.135") AT 24" O.C. (3) 3" X 0.131" NAILS AT 8" O.C.	FACE NAIL
10. DOUBLE TOP PLATES	16d (3 ½" X 0.131") AT 16" O.C. (3) 3" X 0.131" NAILS AT 12" O.C. (8) 16d COMMON (3 ½" X 0.162") (12) 3" X 0.131" NAILS	TYPICAL FACE NAIL LAP SPLICE
11. BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	(3) 8d COMMON (2 ½" X 0.131") (3) 3" X 0.131" NAILS	TOE NAIL
12. RIM JOIST TO TOP PLATE	8d COMMON (2 ½" X 0.131") AT 6" O.C. (3) 3" X 0.131" NAIL AT 6" O.C.	TOE NAIL
13. TOP PLATES, LAPS AND INTERSECTIONS	(2) 16d COMMON (3 ½" X 0.162") (3) 3" X 0.131" NAILS	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3 ½" X 0.162")	16" O.C. ALONG EDGE
15. CEILING JOIST TO PLATE	(3) 8d COMMON (2 ½" X 0.131") (5) 3" X 0.131" NAILS	TOE NAIL
16. CONTINUOUS HEADER TO STUD	(4) 8d COMMON (2 ½" X 0.131")	TOE NAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	(3) 16d COMMON (3 ½" X 0.162") MINIMUM, TABLE 2308.10.4.1 (4) 3" X 0.131" NAILS	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTER (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	(3) 16d COMMON (3 ½" X 0.162") MINIMUM, TABLE 2308.10.4.1 (4) 3" X 0.131" NAILS	FACE NAIL
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)	(3) 8d COMMON (2 ½" X 0.131") (3) 3" X 0.131" NAILS	TOE NAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE.	(2) 8d COMMON (2 ½"X 0.131") (2) 3" X 0.131" NAILS	FACE NAIL
21. 1" X 8" SHEATHING TO EACH BEARING	(3) 8d COMMON (2 ½" X 0.131")	FACE NAIL
22. WIDER THAN 1" X 8" SHEATHING TO EACH BEARING	(3) 8d COMMON (2 ½" X 0.131")	FACE NAIL
23. BUILT UP CORNER STUDS	16d COMMON (3 ½" X 0.162") 3" X 0.131" NAILS	24" O.C. 16" O.C.

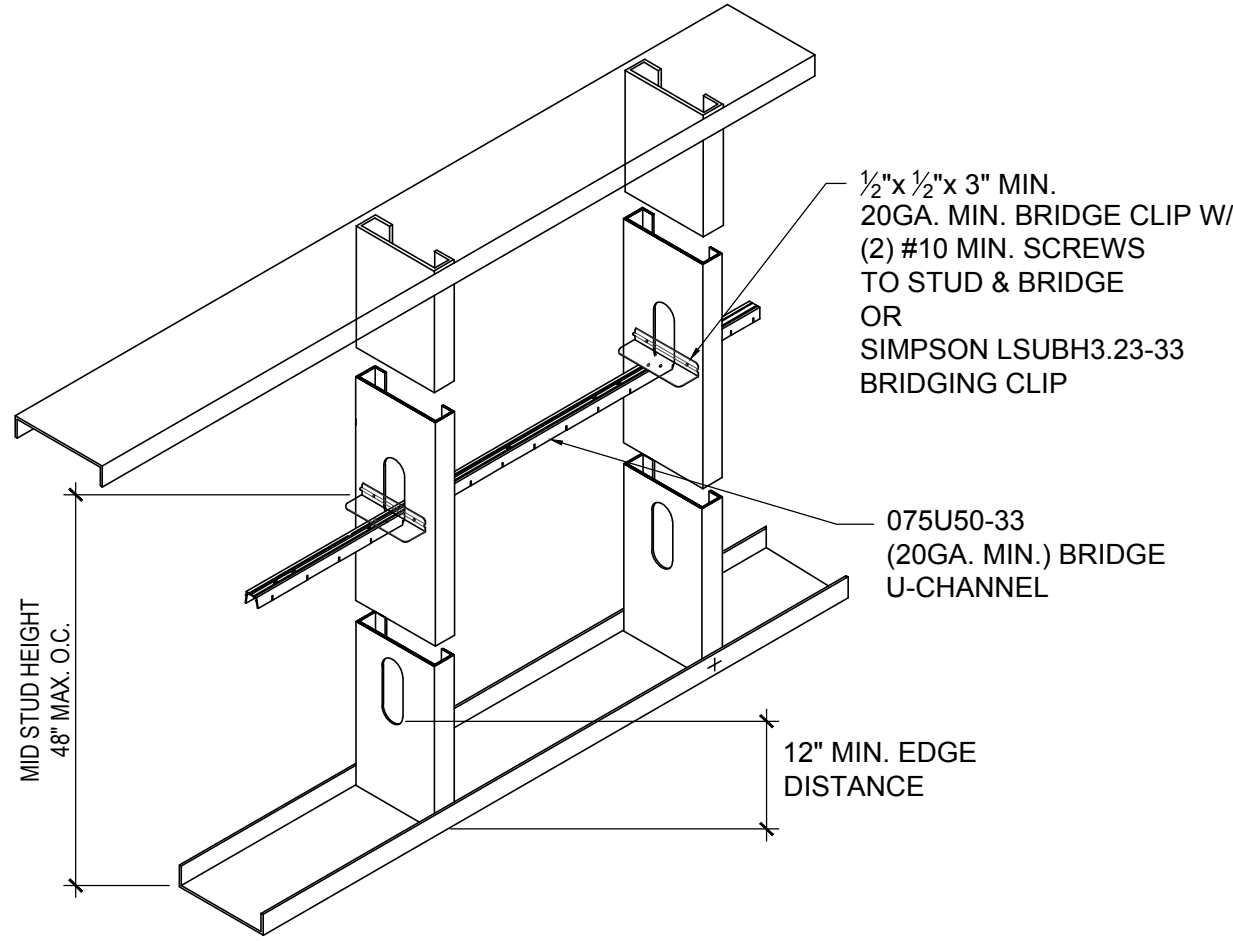
FASTENING SCHEDULE 2019 CBC, TABLE 2304.10.1		
CONNECTION	FASTENING (a,m)	LOCATION
24. BUILT UP GIRDER AND BEAMS	20d COMMON (4" X 0.192") 32" O.C. 3" X 0.131" NAILS AT 24" O.C. (2) 20d COMMON (4" X 0.192") (3) 3" X 0.131" NAILS	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON (3 ½" X 0.162")	AT EACH BEARING
26. COLLAR TIE TO RAFTER	(3) 10d COMMON (3" X 0.148") (4) 3" X 0.131" NAILS	FACE NAIL
27. JACK RAFTER TO HIP	(3) 10d COMMON (3" X 0.148") (4) 3" X 0.131" NAILS (2) 16d COMMON (3 ½" X 0.162") (3) 3" X 0.131" NAILS	TOE NAIL FACE NAIL
28. ROOF RAFTER TO 2X RIDGE BEAM	(2) 16d COMMON (3" X 0.148") (4) 3" X 0.131" NAILS (2) 16d COMMON (3 ½" X 0.162") (3) 3" X 0.131" NAILS	TOE NAIL FACE NAIL
29. JOIST TO BAND JOIST	16d COMMON (3 ½" X 0.162") (4) 3" X 0.131" NAILS	FACE NAIL
30. LEDGER STRIP	(3) 16d COMMON (3 ½" X 0.162") (4) 3" X 0.131" NAILS	FACE NAIL
31. WOOD STRUCTURE PANELS AND PARTICLE-BOARD (b) SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	½" AND LESS 6d (c.l.) (2) ¾" X 0.13" NAIL (n) 1⅜" TO ¾" 8d (d) OR 6d (e) (2) ¾" X 0.113" NAIL (p) ⅞" TO 1" 8d (c) 1 ⅙" TO 1 ¼" 10d (d) OR 8d (d) ¾" AND LESS 6d (e) ⅞" TO 1" 8d (e) 1 ⅙" TO 1 ¼" 10d (d) OR 8d (e)	
32. PANEL SIDING (TO FRAMING)	½" AND LESS 6d (f) ⅝" 8d (f)	
33. FIBERBOARD SHEATHING (g)	½" NO. 11 GAGE ROOFING NAIL (h) 6d COMMON NAIL (2" X 0.113") 2⅝" NO. 11 GAGE ROOFING NAIL (h) 8d COMMON NAIL (2-1/2" X 0.131")	
34. INTERIOR PANELING	¼" 4d (j) ¾" 6d (k)	

FOR SI: 1 INCH = 25.4 mm

- (a) COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.
(b) NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12" INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANELS AND PARTICLEBOARD DIAGRAMMS AND SHEAR WALLS REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
(c) COMMON OR DEFORMED SHANK (6d - 2"x0.113"; 8d - 2½"x0.131"; 10d - 3"x0.148")
(d) COMMON (6d - 2"x0.113"; 8d - 2 1/2"x0.131"; 10d - 3"x0.148")
(e) DEFORMED SHANK (6d - 2"x0.113"; 8d-2½"x0.131"; 10d - 3"x0.148").
(f) CORROSION-RESISTANT SIDING (6d - 1⅝"x0.106"; 8d - 2⅝"x0.128") OR CASING (6d - 2" X 0.099"; 8d - 2½"x0.113") NAIL.
(g) FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NON-STRUCTURAL APPLICATIONS.
(h) CORROSION-RESISTANT ROOFING NAILS WITH ⅞ INCH DIAMETER HEAD AND 1-1/2 INCH LENGTH FOR ½" SHEATHING AND 1-3/4 INCH LENGTH FOR ⅝ INCH SHEATHING.
(i) CORROSION RESISTANT STAPLES WITH NORMAL ⅞ INCH CROWN AND 1 - 1/8 INCH LENGTH FOR 1/2 INCH SHEATHING AND 1-1/2 INCH LENGTH FOR ⅝ INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
(j) CASING (1-1/2" X 0.080") OR FINISH (1-1/2" X 0.072") NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
(k) PANEL SUPPORTS AT 24 INCHES. CASING OF FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
(l) FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2-1/2" X 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
(m) STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH.
(n) FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
(o) FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.
(p) FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.



OPTION 1 (BLKG. AND STRAP)



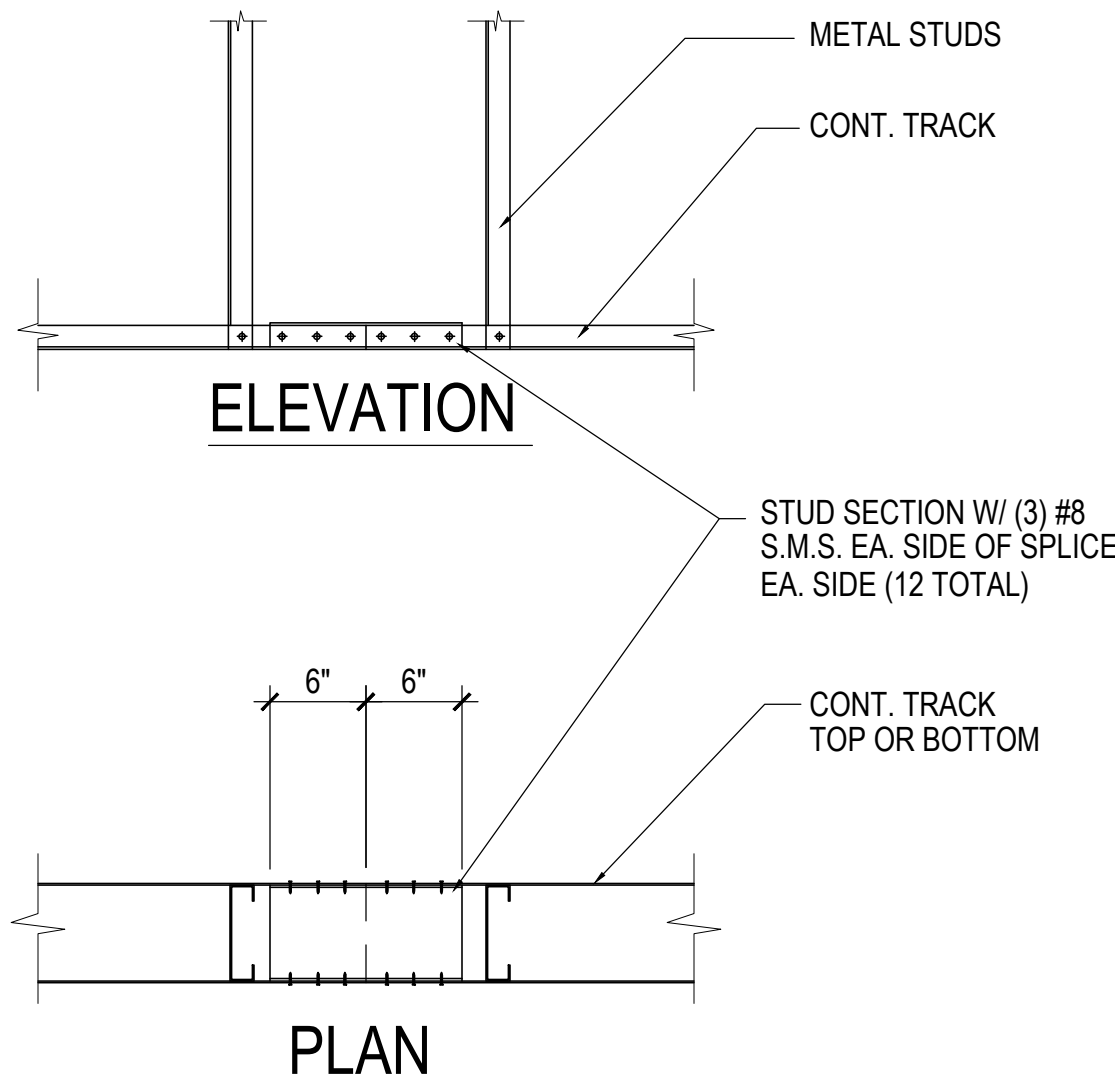
OPTION 2 (CHANNEL THROUGH HOLES IN STUDS)

NOTE:
BRIDGING REQUIRED AT MID-HEIGHT (48" O.C. MAX) OF SHEARWALLS ON NON-SHEATHED SIDES OF WALL & WHERE NOTED ELSEWHERE.

STUD WALL BRIDGING

SCALE: 1"=1'-0"

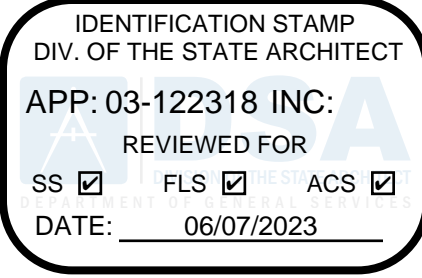
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TRACK SPLICE

SCALE: 1"=1'-0"

T15

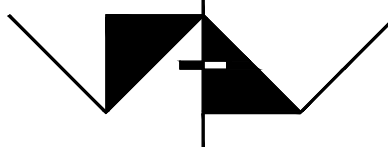


PROJECT TITLE

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
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COMMISSIONED ARCHITECT



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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: CRUZ REYES CHECKED: WILL LAMBERT

SHEET NUMBER:

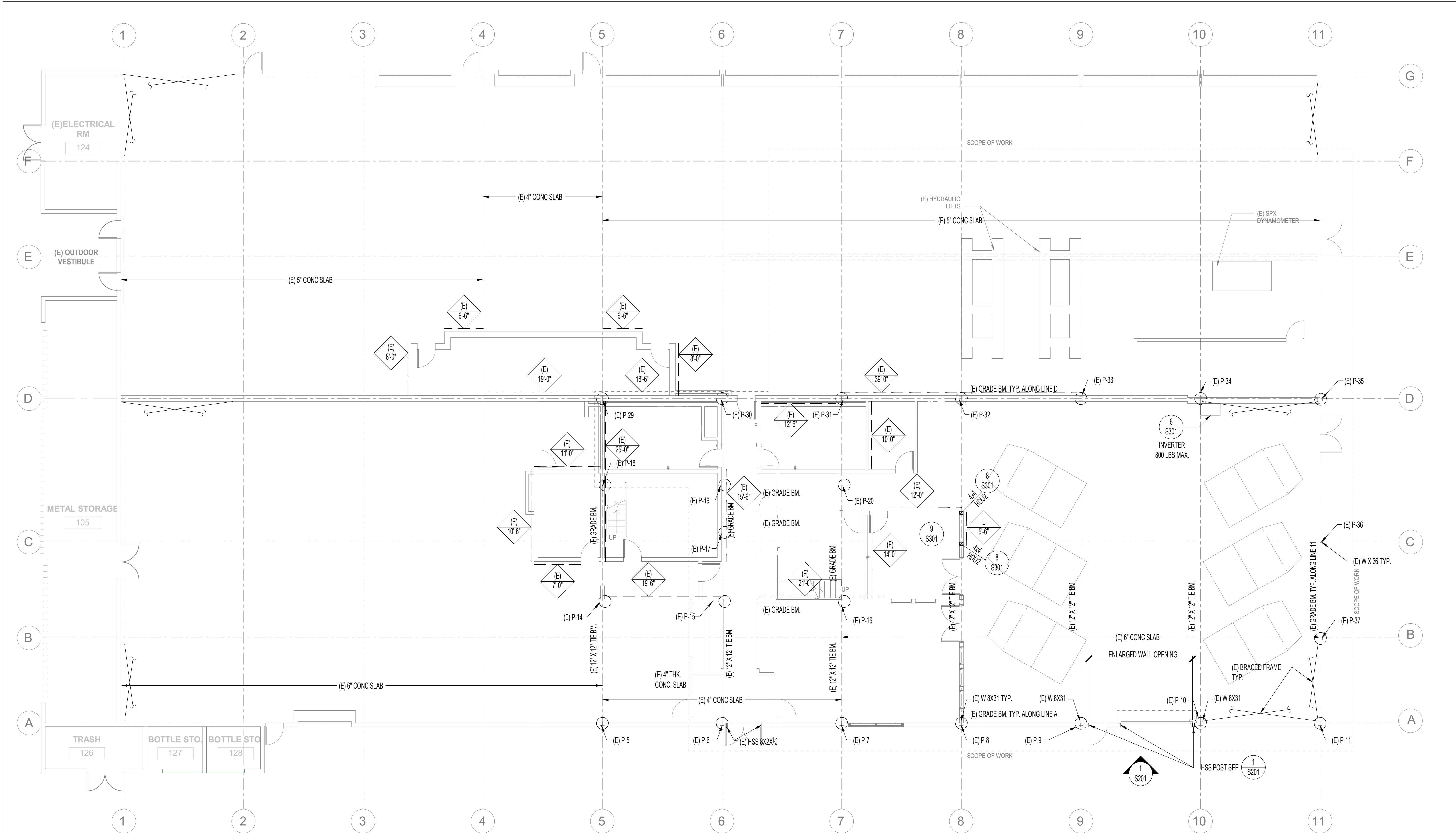
S003

DATE: 02/25/2022 SHEET: ____ OF ____

FASTENING SCHEDULE

SCALE: 1"=1'-0"

T18

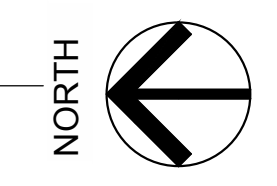


1 PARTIAL FOUNDATION PLAN
1/8" = 1'-0"

- LEGEND**
- INDICATES (E) PILE
 - INDICATES EXISTING SHEARWALLS TO REMAIN. TYP. U.N.O.
 - INDICATES NEW SHEARWALL WITH 2X4 MIN. STUDS @ 16" O.C. MAX SPACING. SHEATHING SHALL BE 5/8" MIN. THICK APA RATED PLYWOOD (PI 32/16). EDGE NAILING (E.N.) SHALL BE 8d MIN. @ 4" O.C. AND FIELD NAILING (F.N.) SHALL BE 8d @ 12" O.C. SEE 9 & 10 / S301

PLAN NOTES:

REFER TO SHEET S000 - S001 FOR GENERAL NOTES AND SPECIFICATIONS.
REFER TO SHEET S002 - S003 FOR TYP. DETAILS THAT MAY NOT BE CALLED OUT ON THESE PLANS.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT

**AMADOR WHITTLE
ARCHITECTS, INC.**
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

CONSULTANT

Orion Structural
Orion Structural Group, Inc.
223 East Thousand Oaks Boulevard, Suite 304
Thousand Oaks, California 91320-7734
Phone: 805.390.9242 Fax: 805.494.0418 O.S.G. # 21607

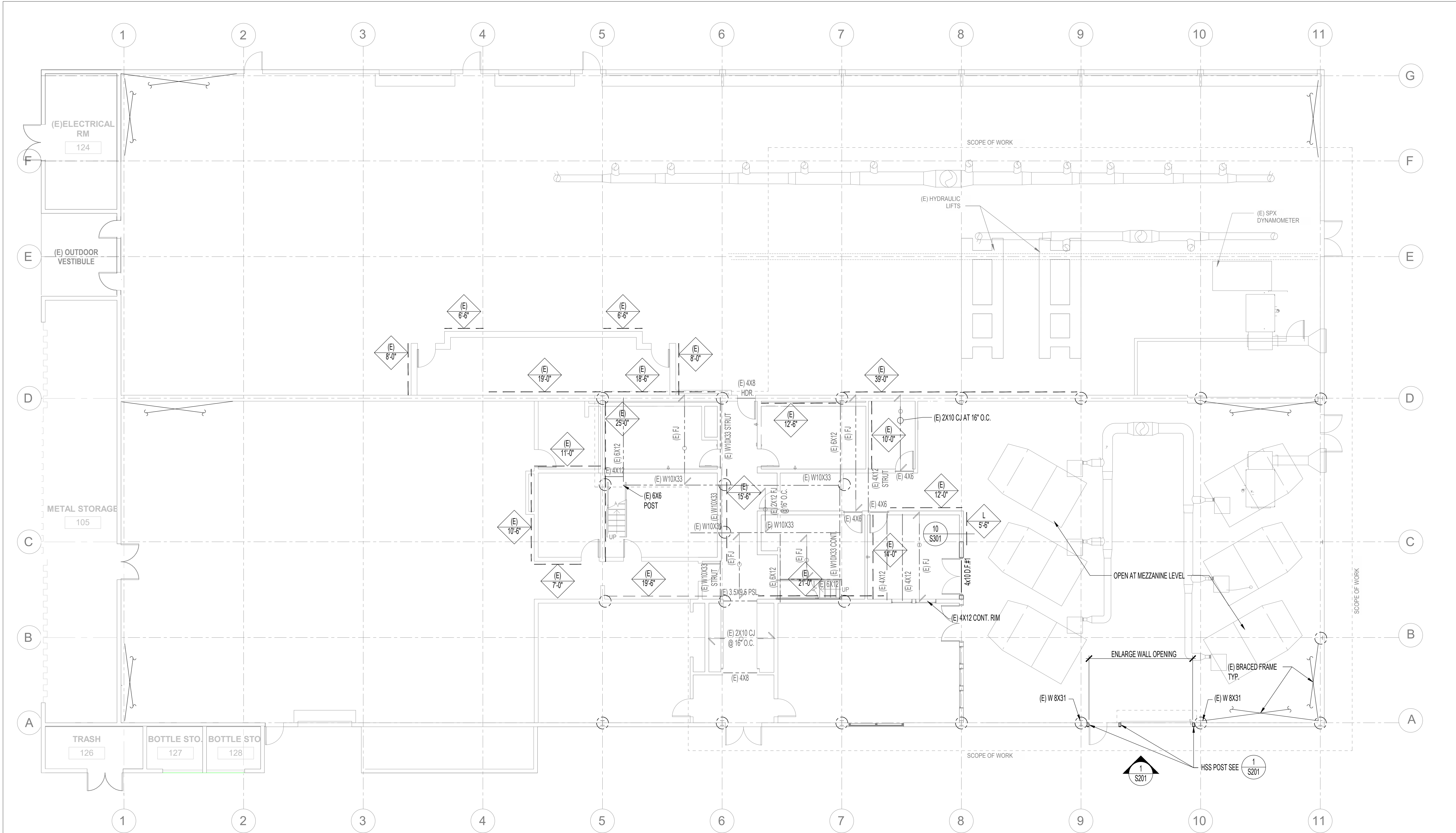
STAMPS/SEALS

DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

**PARTIAL FOUNDATION
PLAN**

PROJECT NO.: 21-VCCCD-005	PROJECT ARCH: WJA
DRAWN: CRUZ REYES	CHECKED: WILL LAMBERT
SHEET NUMBER:	
S103	
DATE: 02/25/2022	SHEET: ____ OF ____



1 PARTIAL MEZZANINE FRAMING PLAN
1/8" = 1'-0"

LEGEND

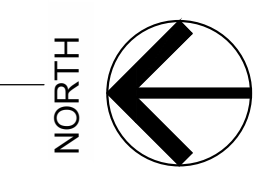
(E) FJ
INDICATES EXISTING (2) 2X12 AT 16" O.C. D.F.#1 FLOOR JOIST

(E) LENGTH
INDICATES EXISTING SHEARWALLS TO REMAIN. TYP. U.N.O.

L LENGTH
INDICATES NEW SHEARWALL WITH 2X4 MIN. STUDS @ 16" O.C. MAX SPACING. SHEATHING SHALL BE 1/2" MIN. THICK APA RATED PLYWOOD (PI 32/16). EDGE NAILING (E.N.) SHALL BE 8d MIN. @ 4" O.C. AND FIELD NAILING (F.N.) SHALL BE 8d @ 12" O.C. SEE 9 & 10 / S301

PLAN NOTES:

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REFER TO SHEET S002 - S003 FOR TYP. DETAILS THAT MAY NOT BE CALLED OUT ON THESE PLANS.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 06/07/2023

PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

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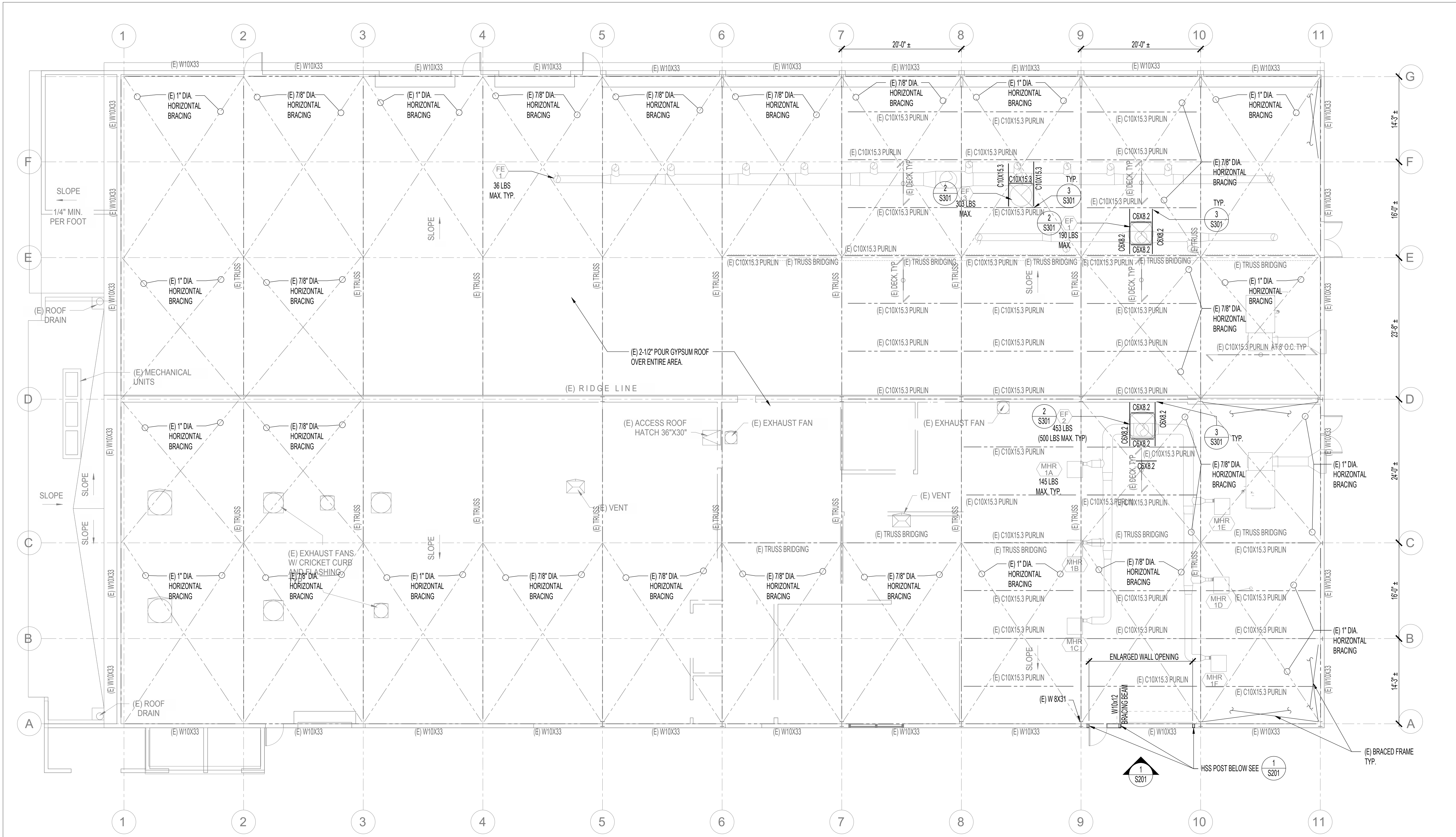
STAMPS/SEALS

DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

**PARTIAL MEZZANINE
FRAMING PLAN**

PROJECT NO.: 21-VCCCD-005	PROJECT ARCH: WJA
DRAWN: CRUZ REYES	CHECKED: WILL LAMBERT
SHEET NUMBER:	
S104	
DATE: 02/25/2022	SHEET: OF



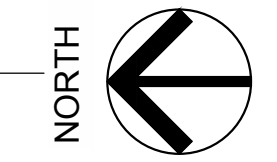
1 PARTIAL ROOF FRAMING PLAN
1/8" = 1'-0"

LEGEND

(E) DECK
INDICATES EXISTING 2-1/2" POURED GYPSUM SLAB W/
STEEL BULB TEES AT 2'-9" O.C. TYP

PLAN NOTES:

REFER TO SHEET S000 - S001 FOR GENERAL NOTES AND SPECIFICATIONS.
REFER TO SHEET S002 - S003 FOR TYP. DETAILS THAT MAY NOT BE CALLED OUT ON THESE PLANS.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
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DATE: 06/07/2023

PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003



COMMISSIONED ARCHITECT


**AMADOR WHITTLE
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STAMPS/SEALS

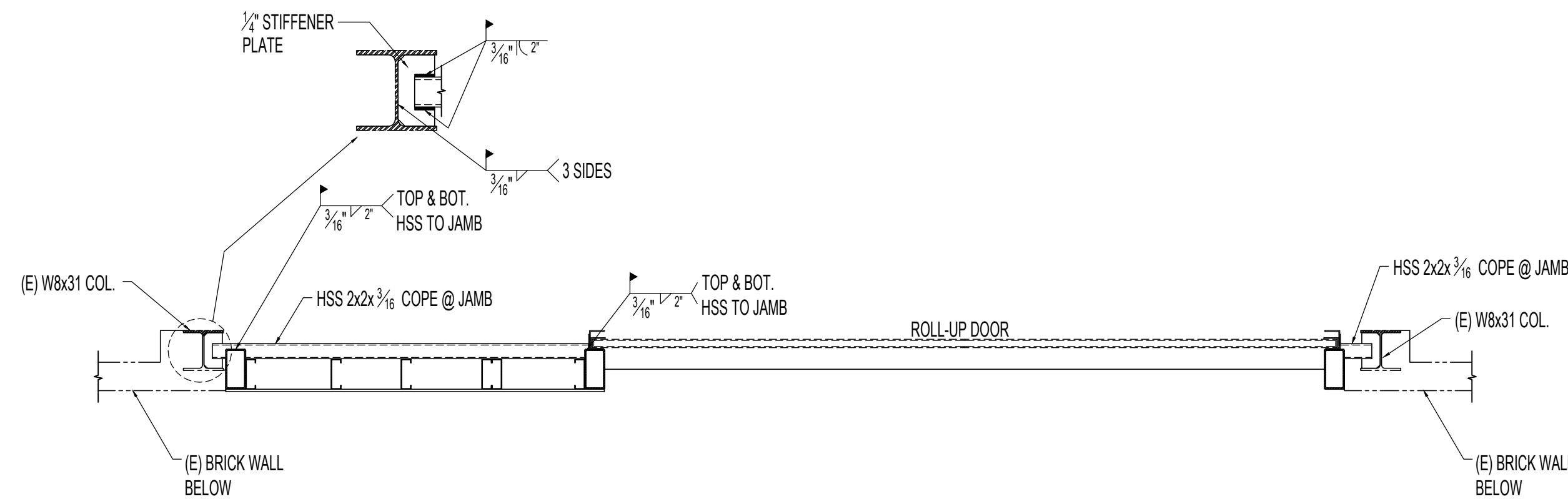



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

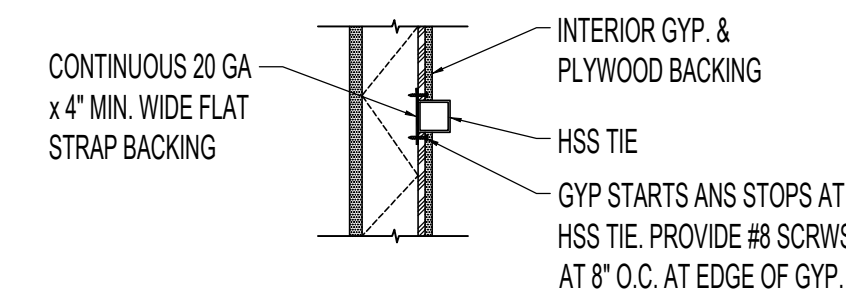
**PARTIAL ROOF
FRAMING PLAN**

PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: CRUZ REYES CHECKED: WILL LAMBERT
SHEET NUMBER:
S105
DATE: 02/25/2022 SHEET: OF



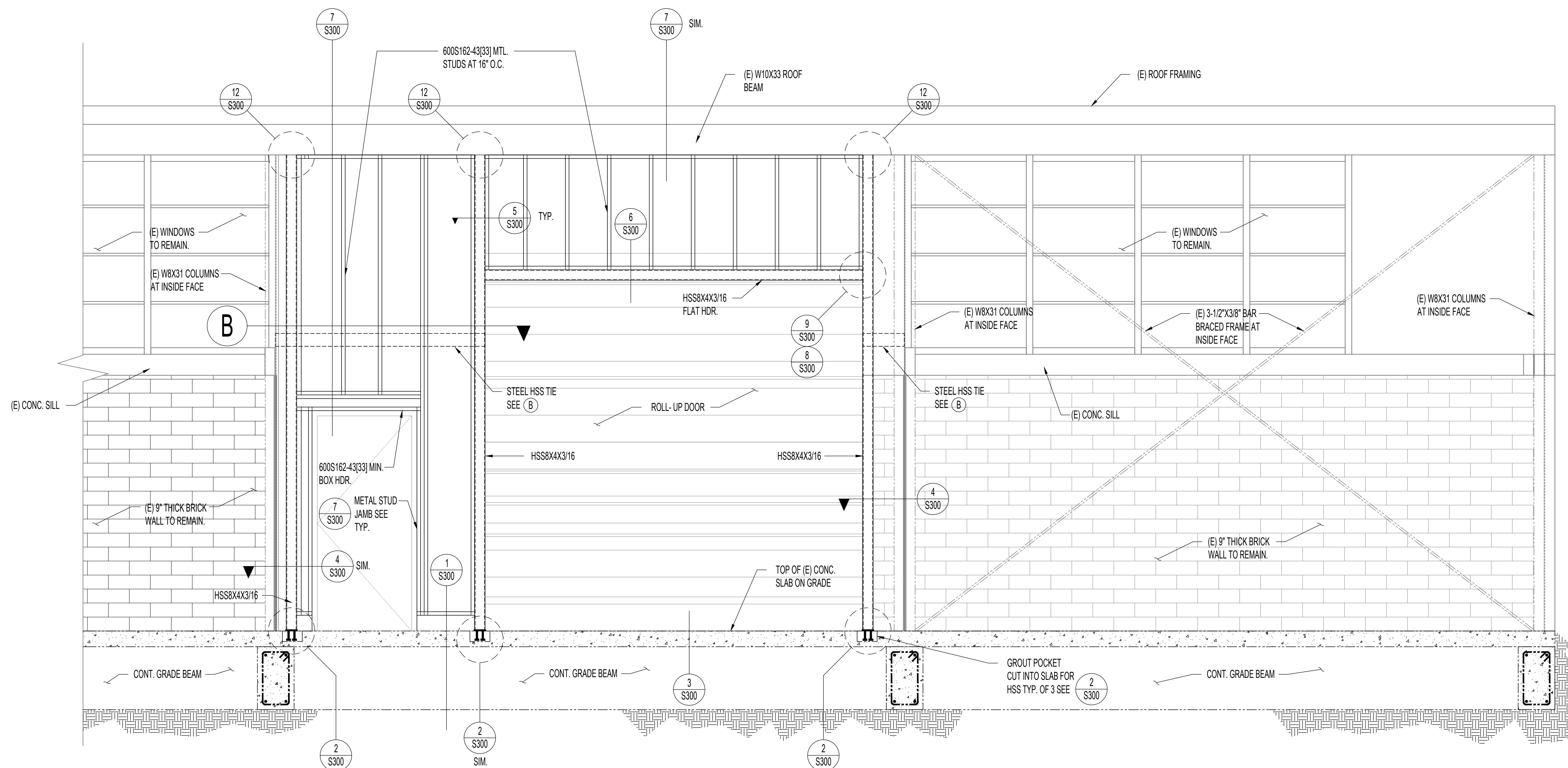
PLAN VIEW

B



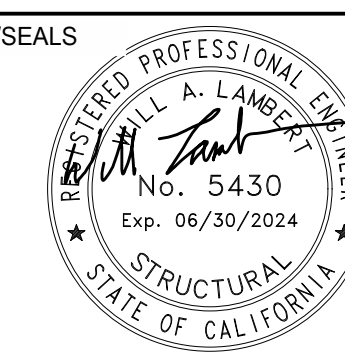
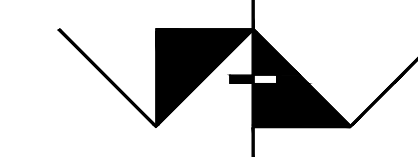
INTERIOR GYP. AT HSS TIE

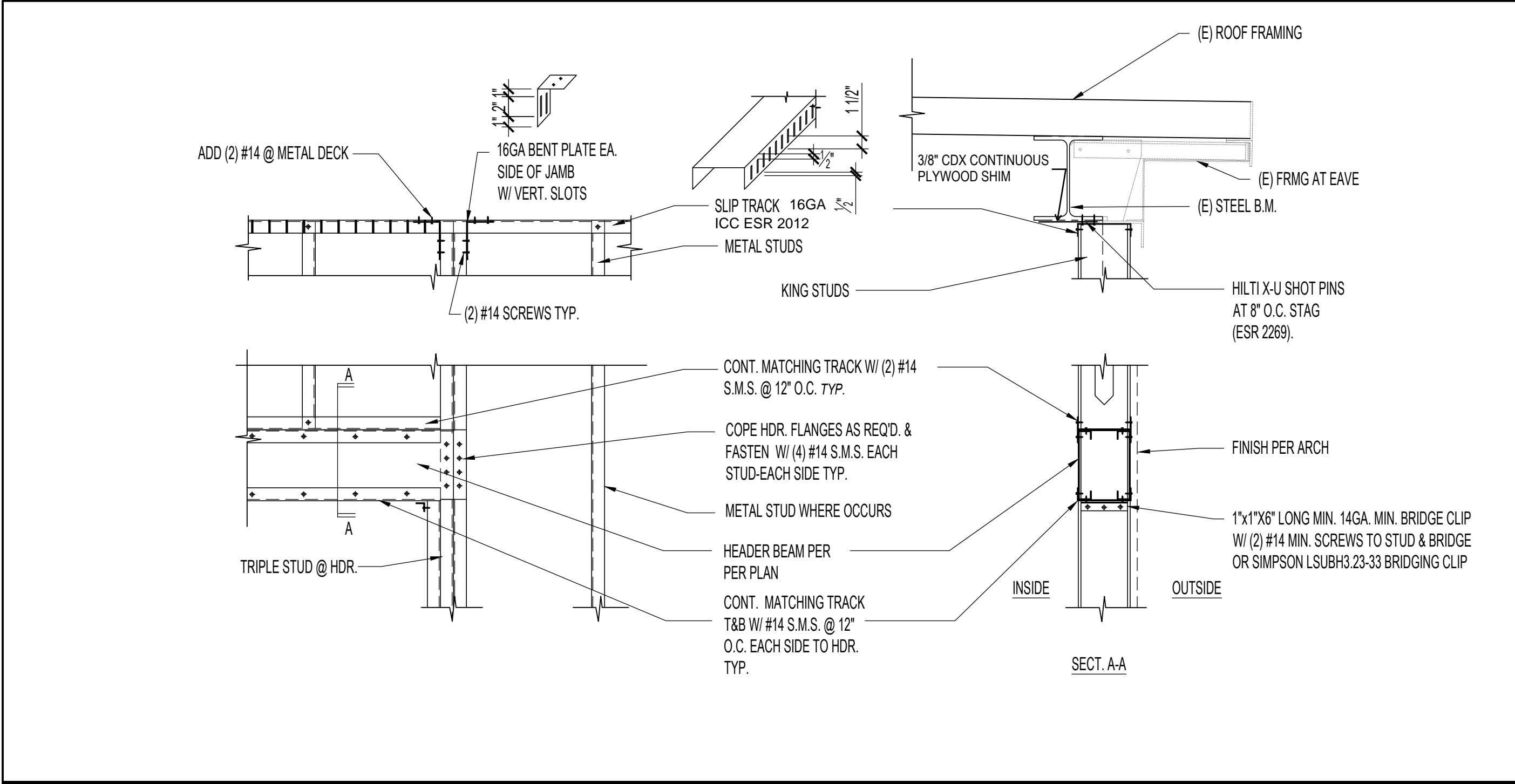
C



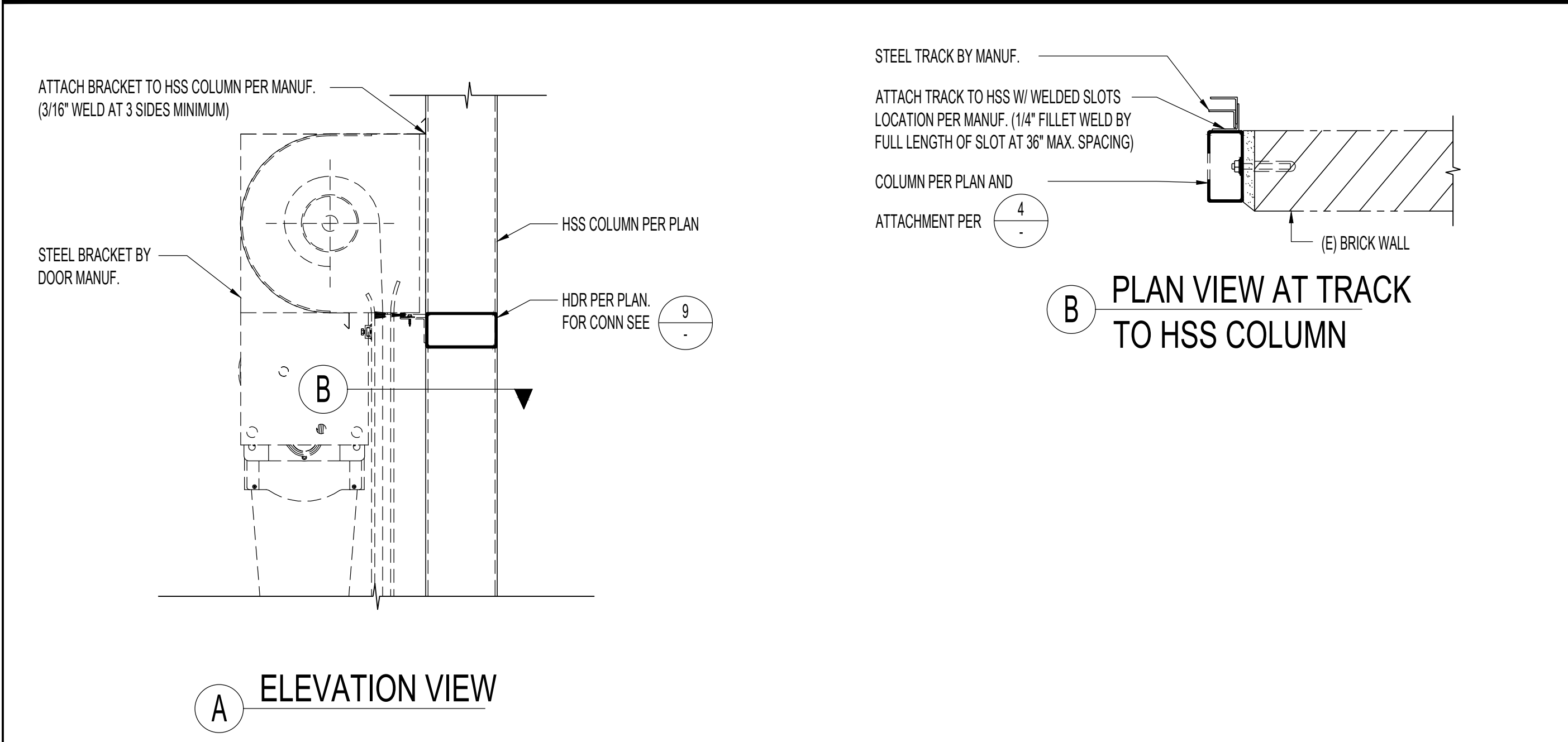
ELEVATION VIEW

A

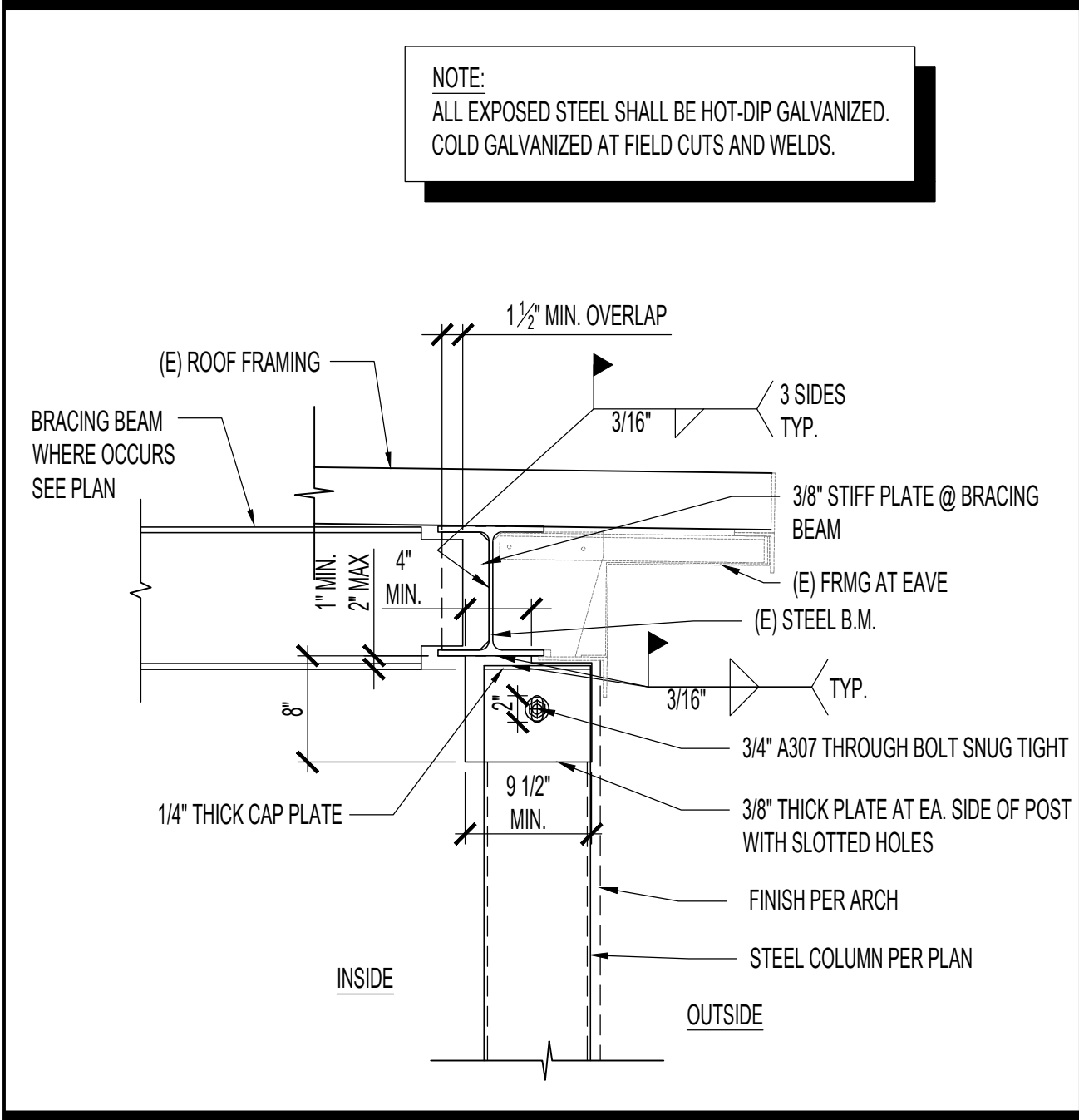




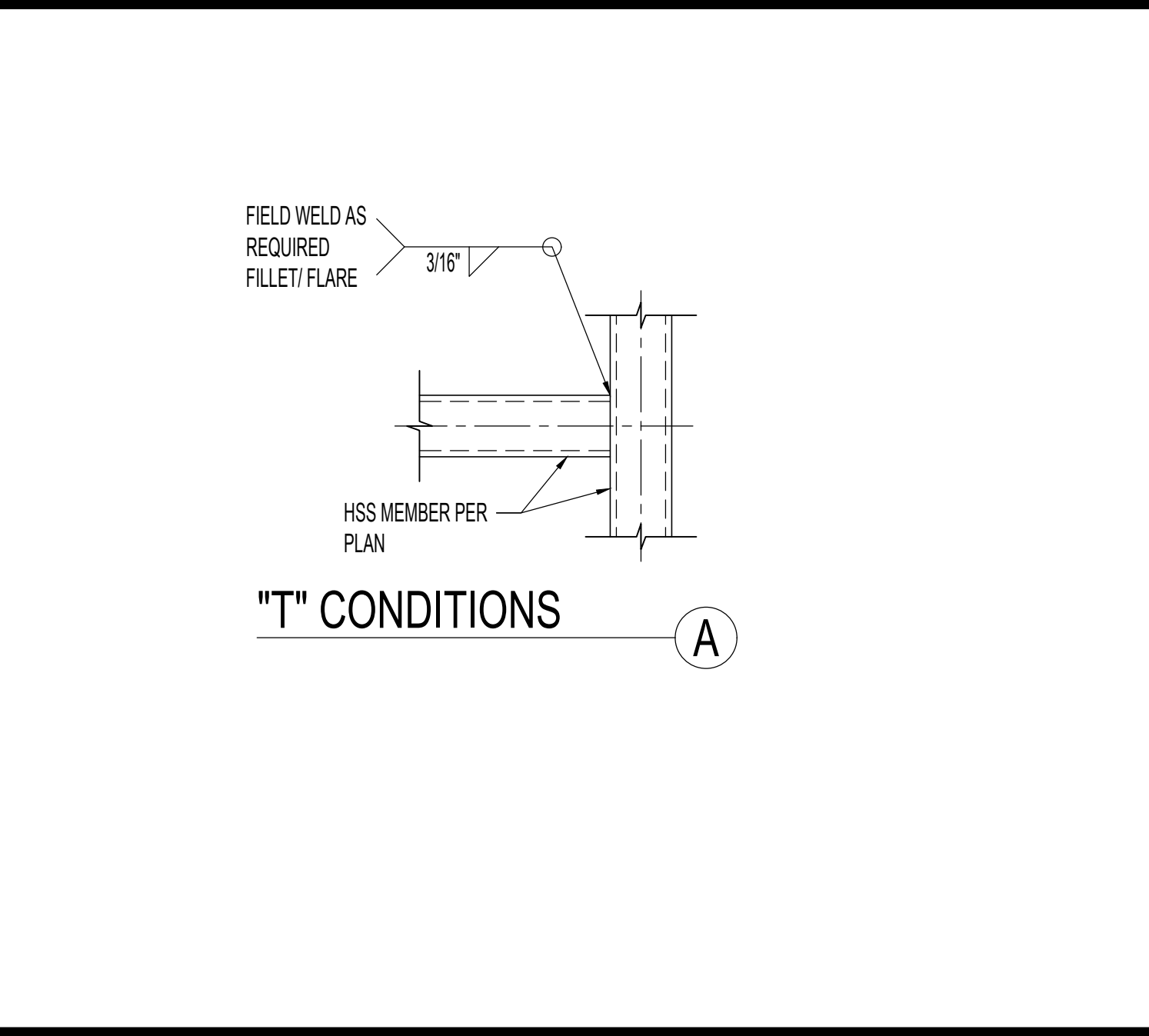
DOOR HEADER AT STUD WALL SCALE: 1"=1'-0" 7



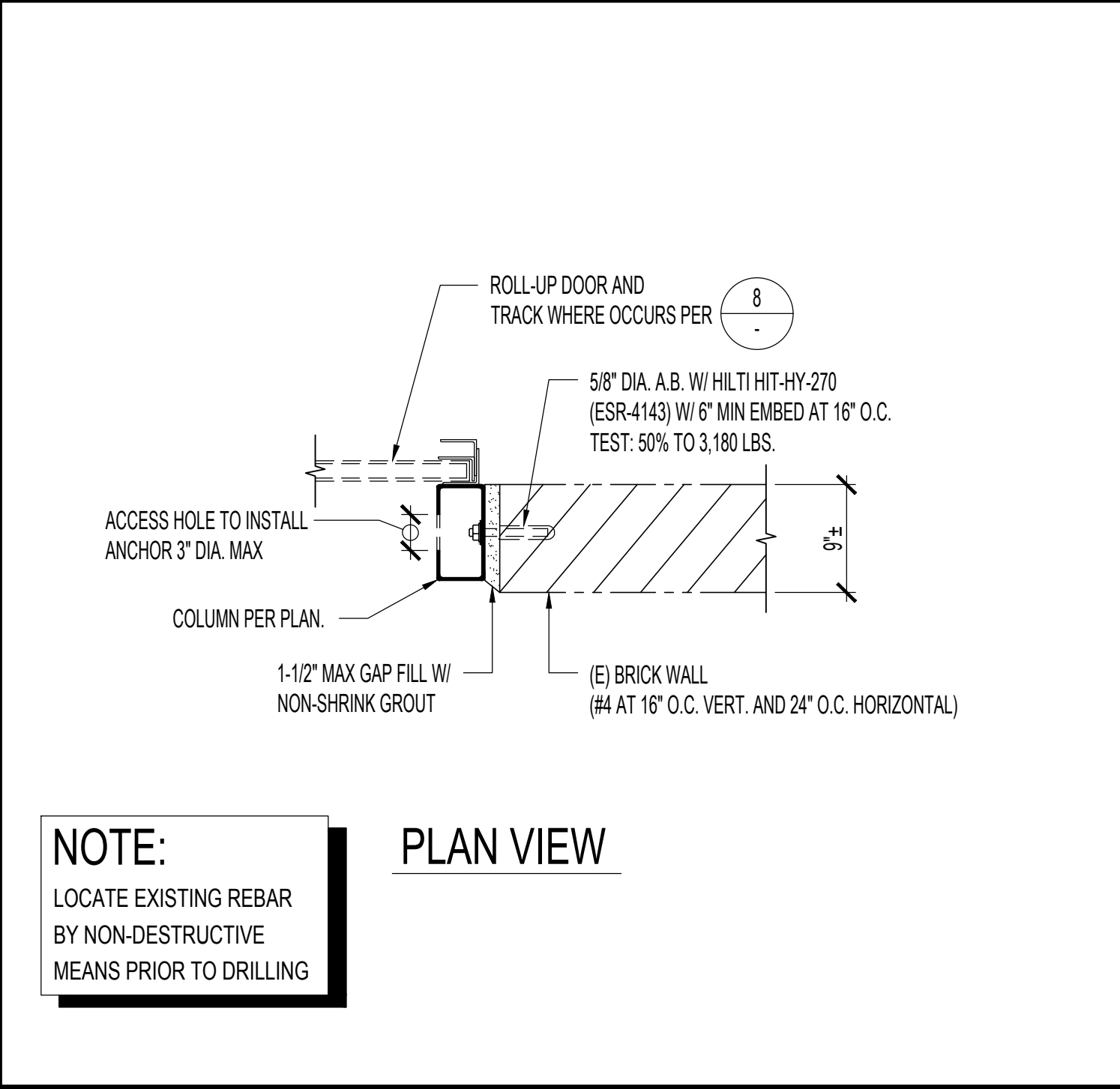
DOOR HEADER AT STUD WALL SCALE: 1"=1'-0" 7



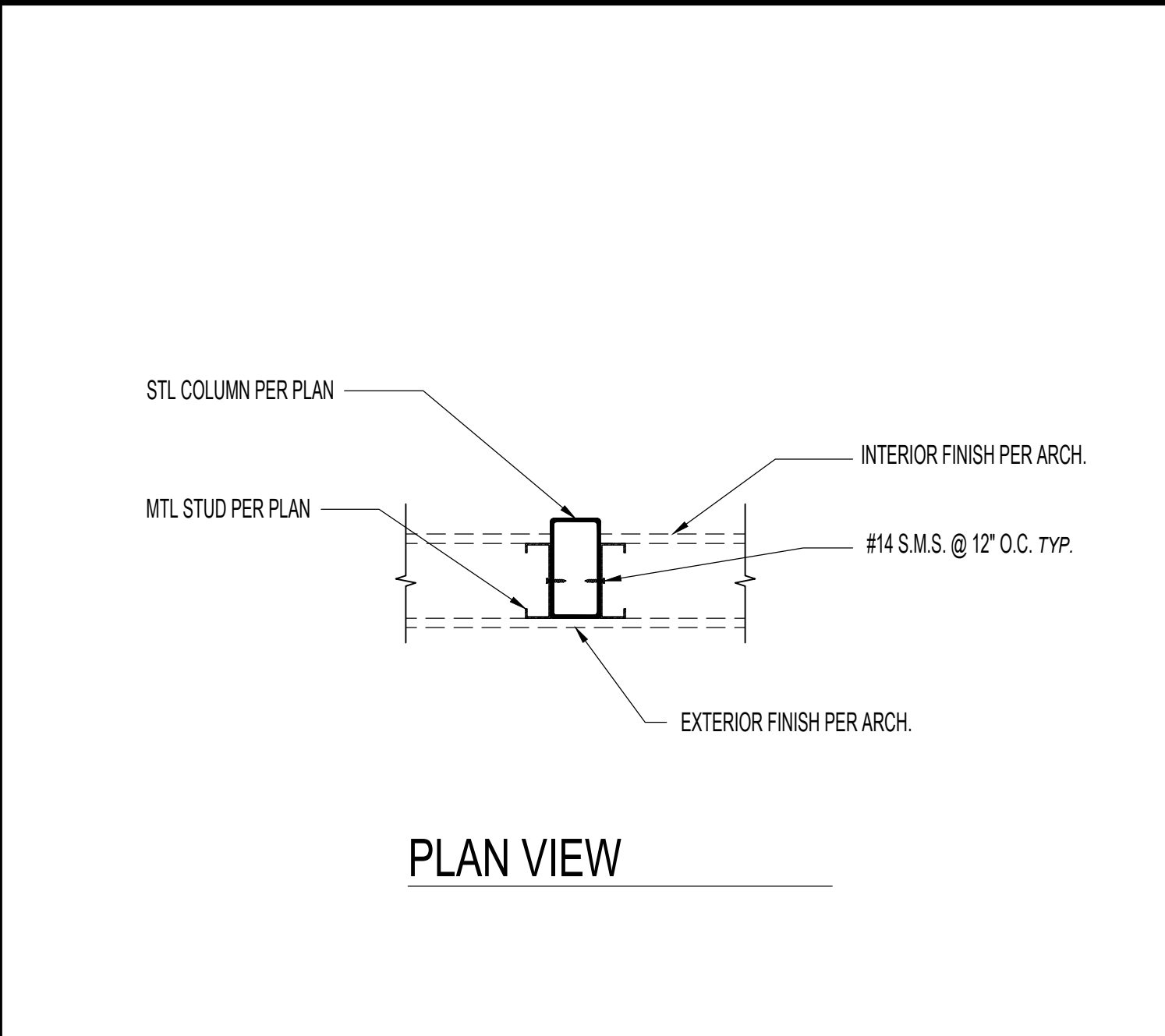
ROLL-UP DOOR CONN. SCALE: 1"=1'-0" 8



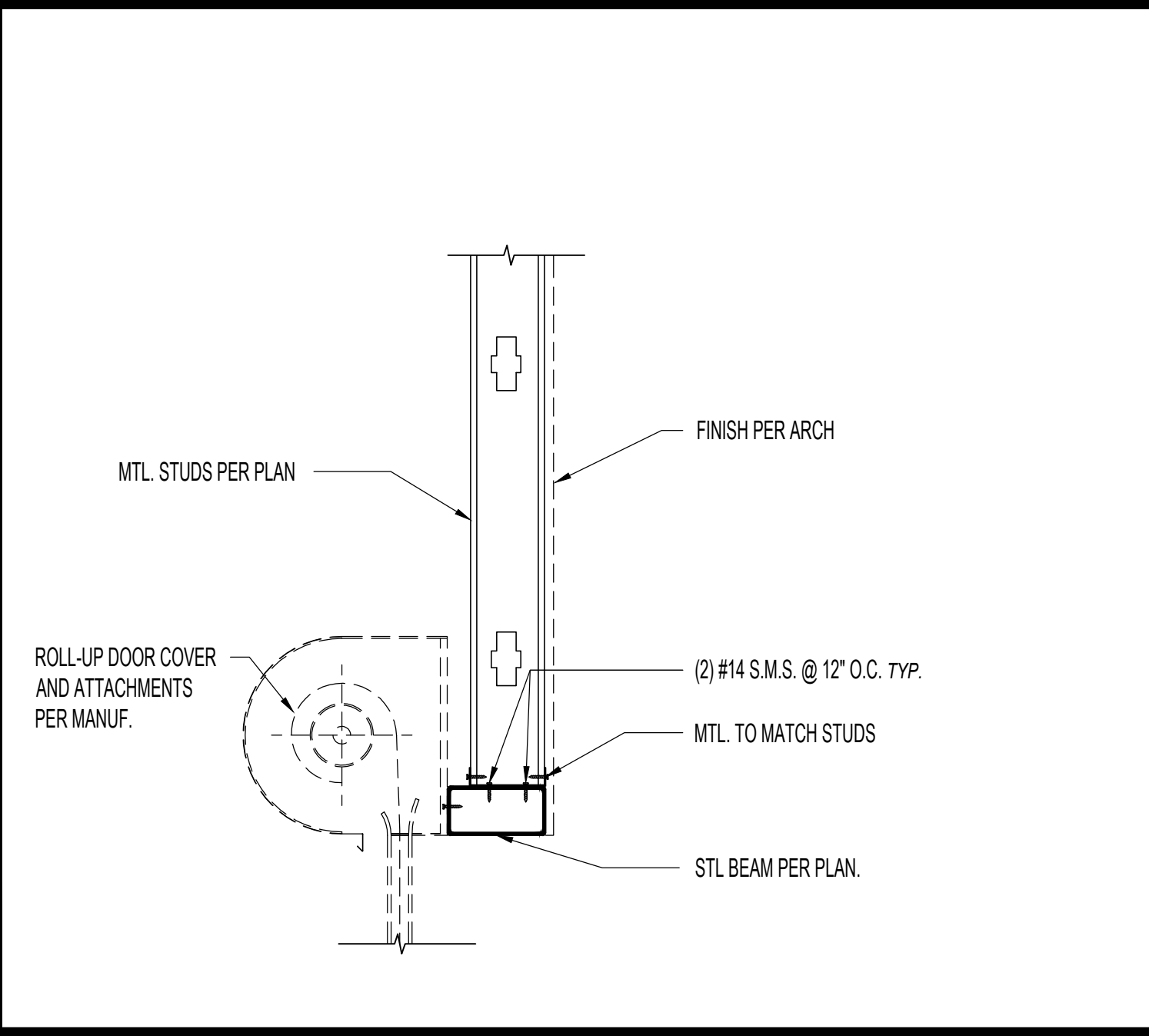
ROLL-UP DOOR CONN. SCALE: 1"=1'-0" 8



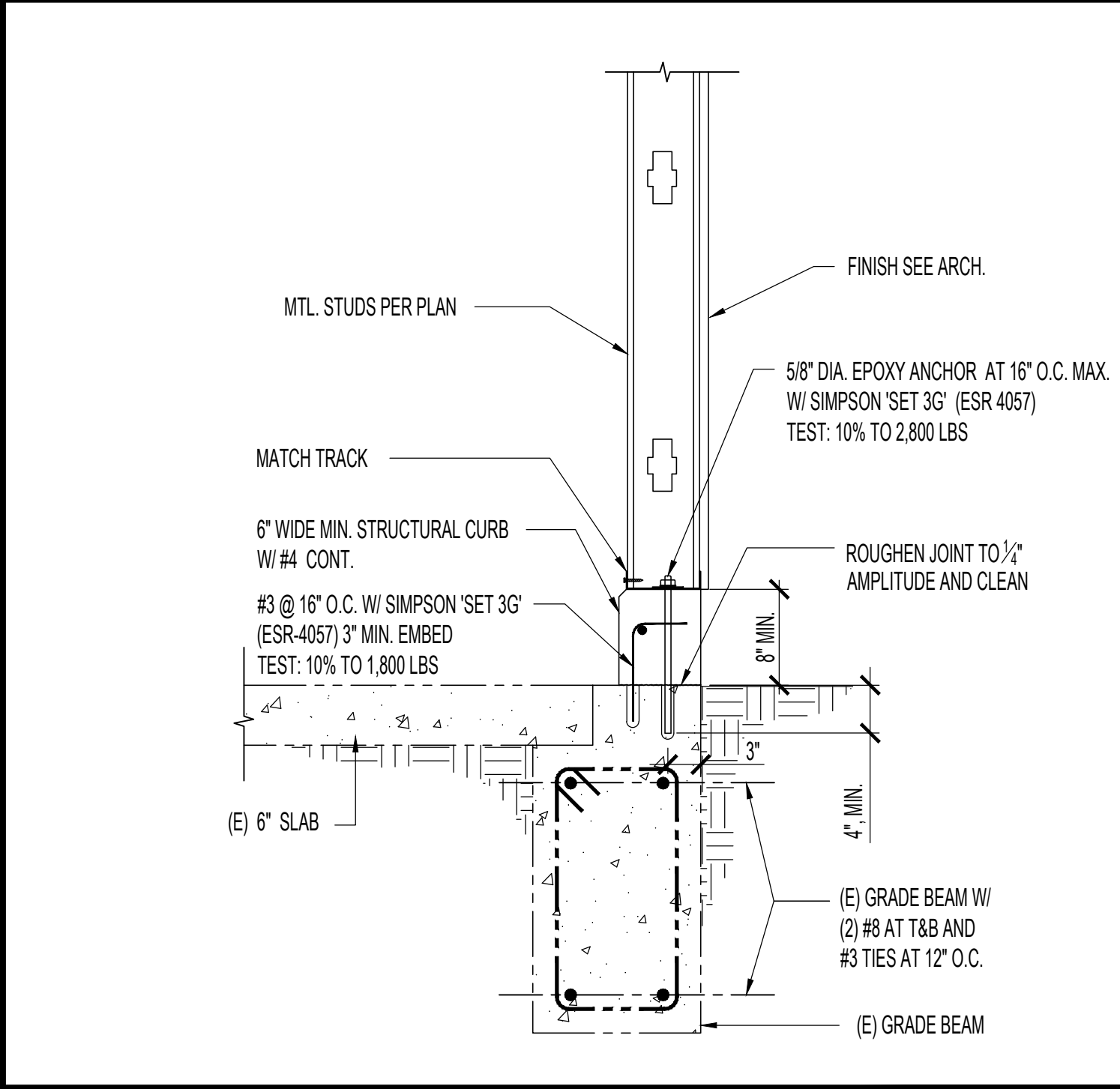
HSS TO BRICK WALL SCALE: 1"=1'-0" 4



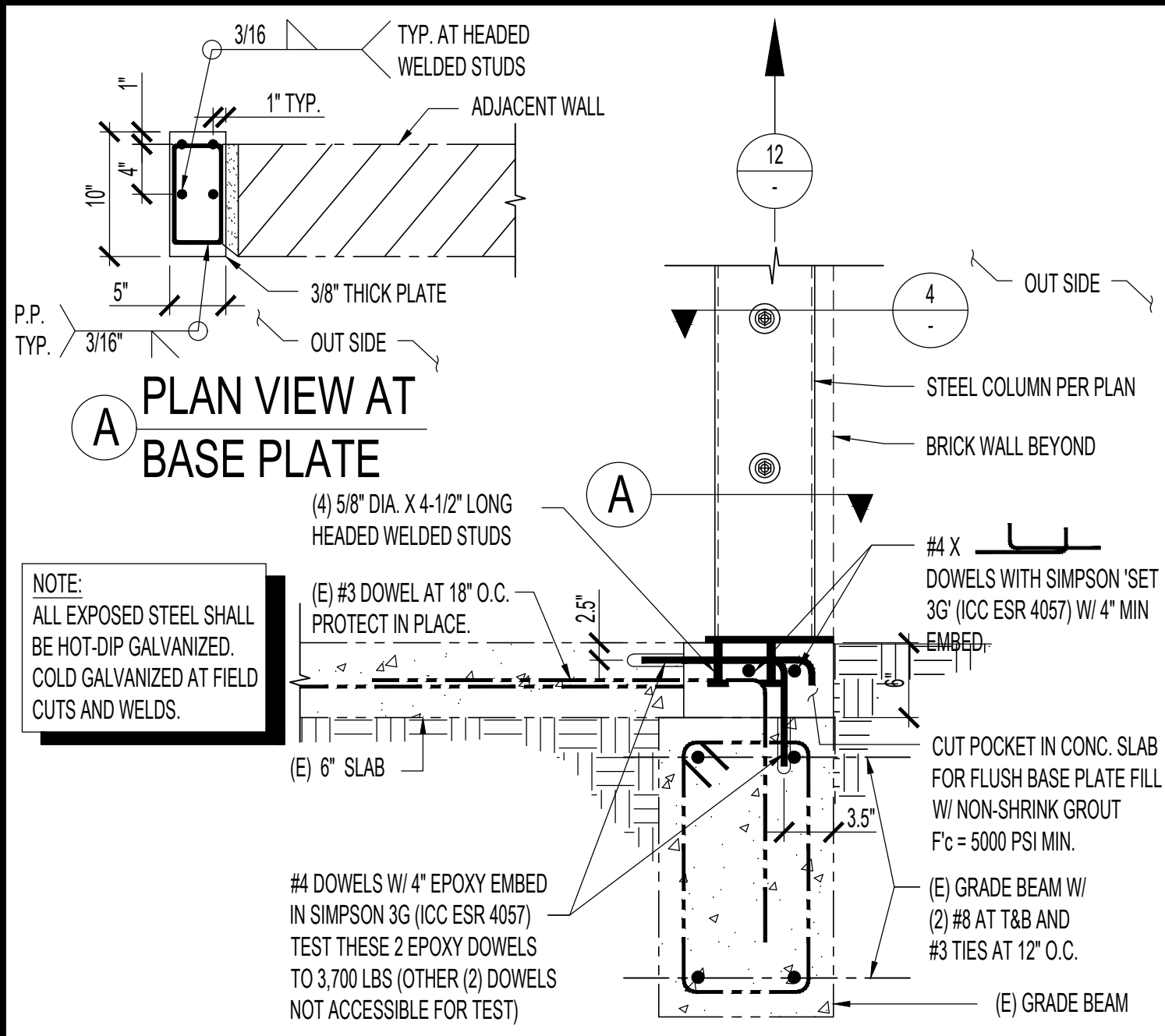
TYP. MTL STUD TO COLUMN CONN. SCALE: 1"=1'-0" 5



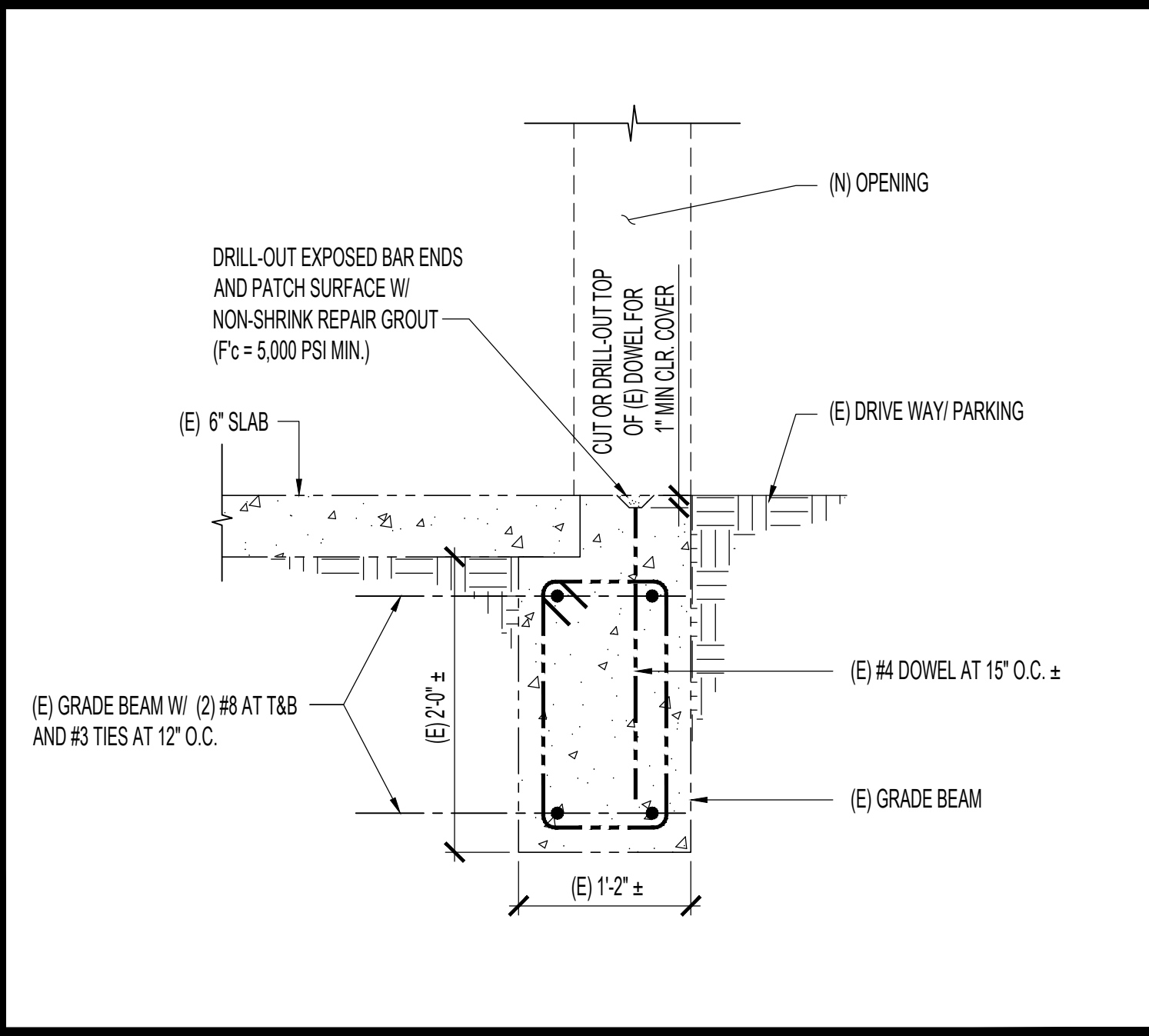
TYP. STL. HDR. TO CRIPPLE WALL CONN. SCALE: 1"=1'-0" 6



MTL STUD WALL CONN. AT FOOTING SCALE: 1"=1'-0" 1



MTL STUD WALL CONN. AT FOOTING SCALE: 1"=1'-0" 1



MTL STUD WALL CONN. AT FOOTING SCALE: 1"=1'-0" 1

IDENTIFICATION STAMP
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DATE: 06/07/2023

PROJECT TITLE
**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT
**AMADOR WHITTLE
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28328 AGOURA ROAD, SUITE 203
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STAMPS/SEALS

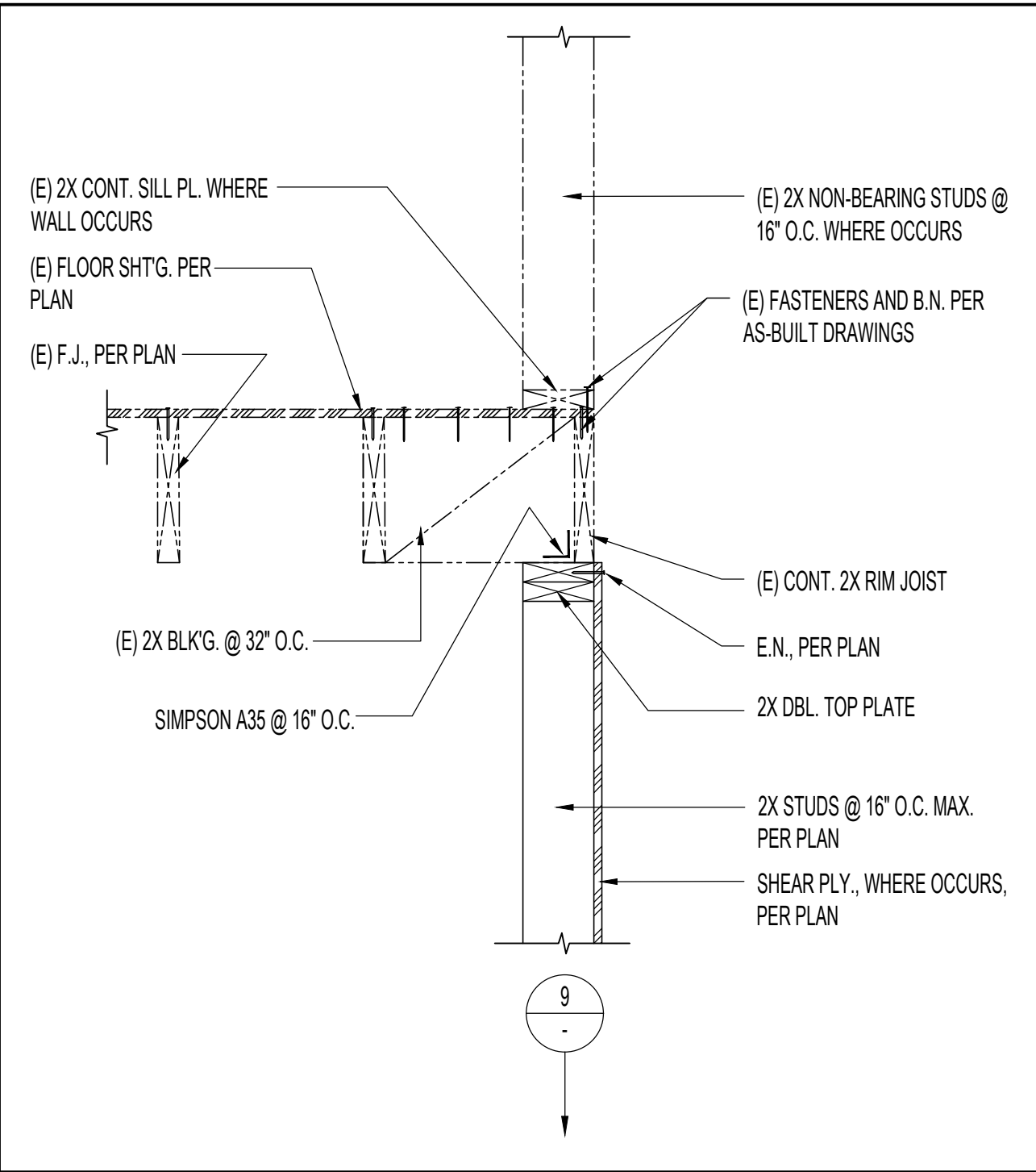
REGISTERED PROFESSIONAL ENGINEER
No. 5430
Exp. 06/30/2024
STATE OF CALIFORNIA

LICENSED ARCHITECT
No. C-20348
JANUARY 31, 2025
RENEWAL
DATE
STATE OF CALIFORNIA

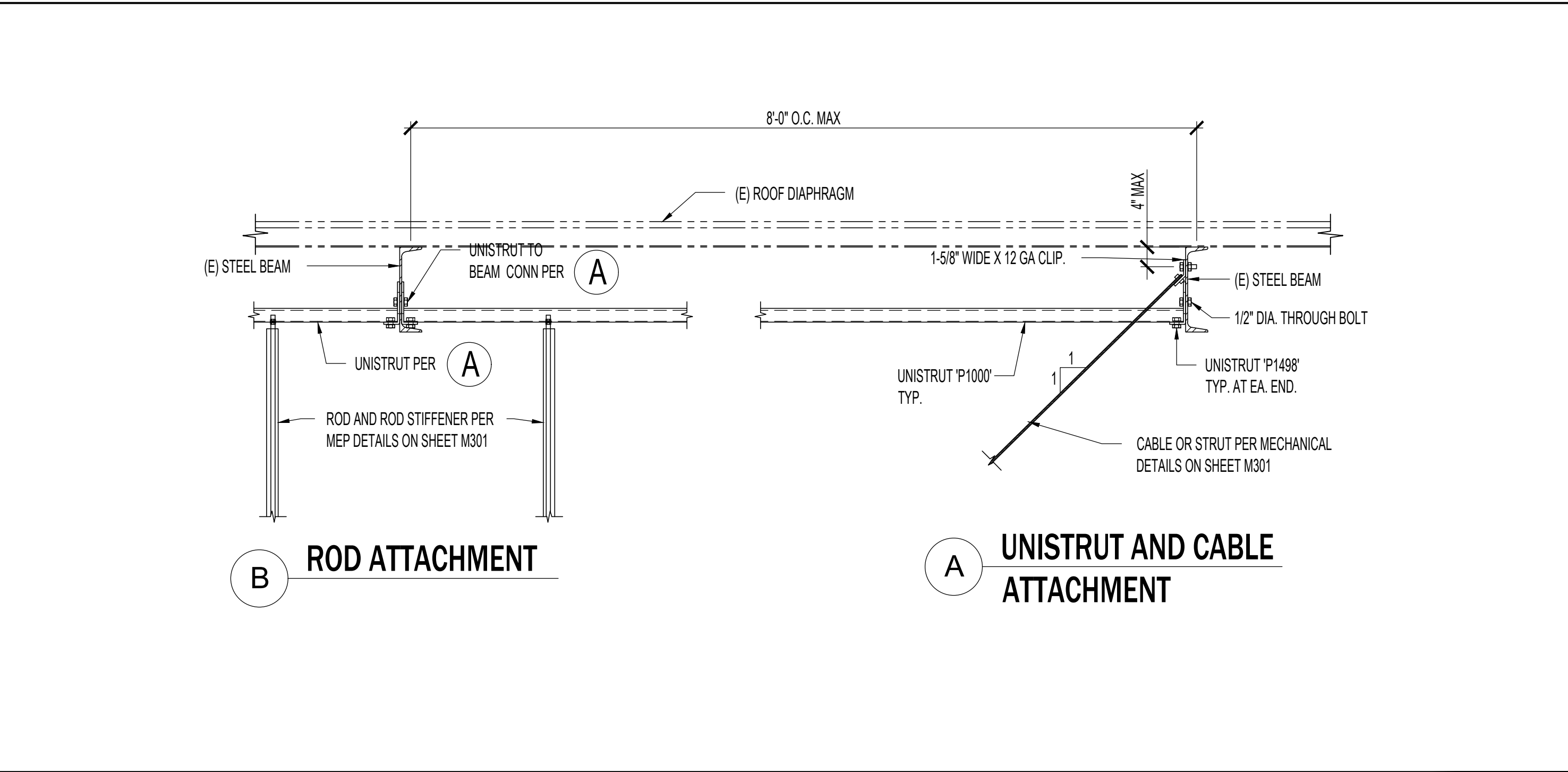
DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:
**STRUCTURAL
DETAILS**

PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: CRUZ REYES CHECKED: WILL LAMBERT
SHEET NUMBER:
S300
DATE: 02/25/2022 SHEET: OF



TOP OF (N) SHEARWALL CONNECTION NTS 10

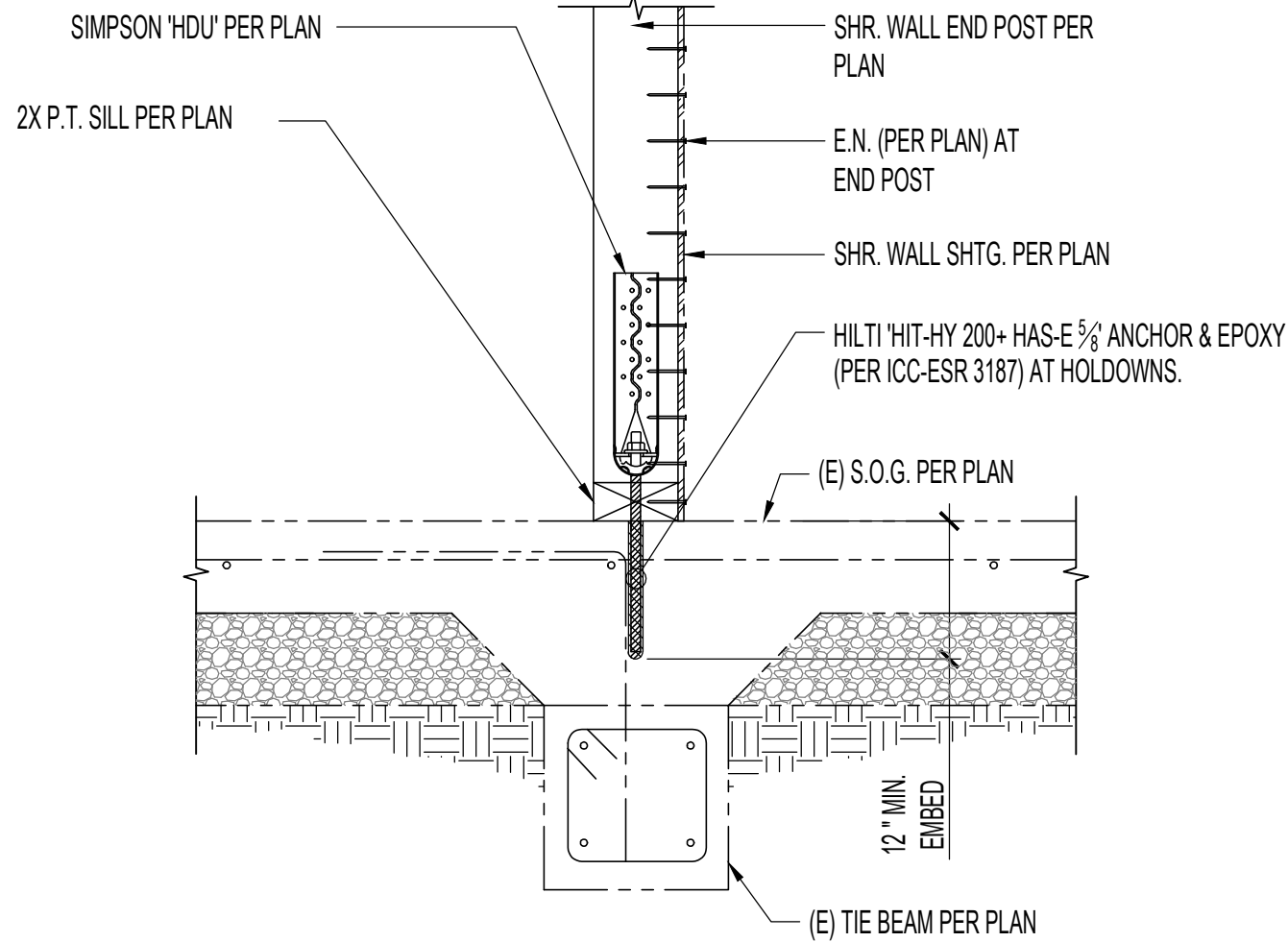


ATTACHMENT TO (E) BEAM (60 LBS MAX) SCALE: 1"=1'-0" 4

HOLDOWN SCHEDULE				
SIMPSON HOLDOWN TYPE	FASTENERS AND TYPE	ANCHOR DIA.	MINIMUM POST SIZE	ALLOWABLE TENSION LOADS
HDU2	(6) SDS25212 SCREWS	5/8"	4X4	3075 LB

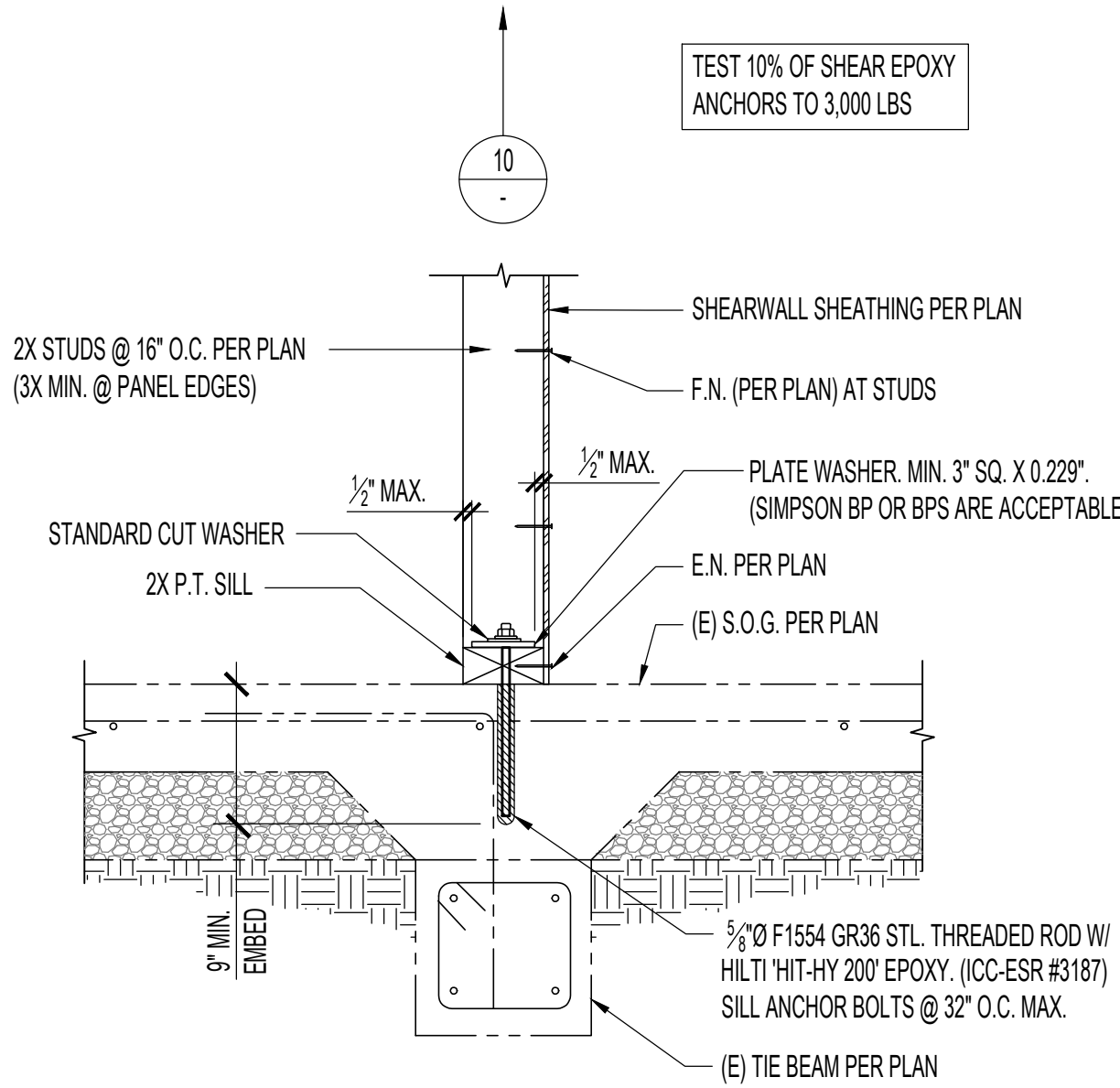
- NOTES:
1. PROVIDE MIN. POST SIZE AS INDICATED. U.N.O.
 2. SCREW-STYLE HOLDOWNS PER ICC ESR 2330.
 3. BOLT-STYLE HOLDOWNS PER IAPMO ESR 0143. COUNTERSINKING OF HOLDOWN BOLTS IS PROHIBITED.
 4. HOLDOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION/OBSERVATION.

TEST 100% OF HOLDOWN EPOXY ANCHORS TO 4,400 LBS

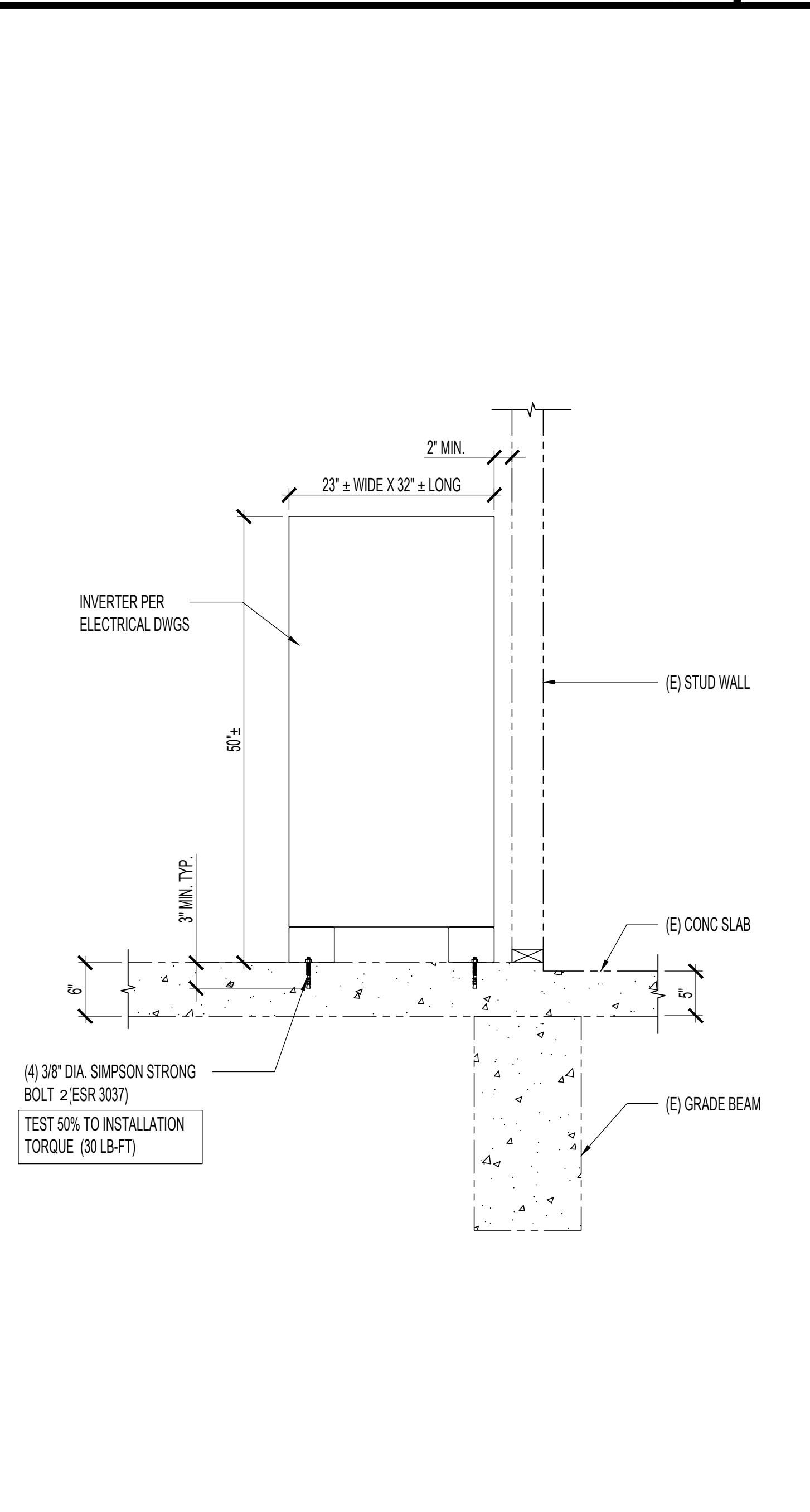


(N) HOLDOWN AT (E) FOUNDATION SCALE: 1"=1'-0" 8

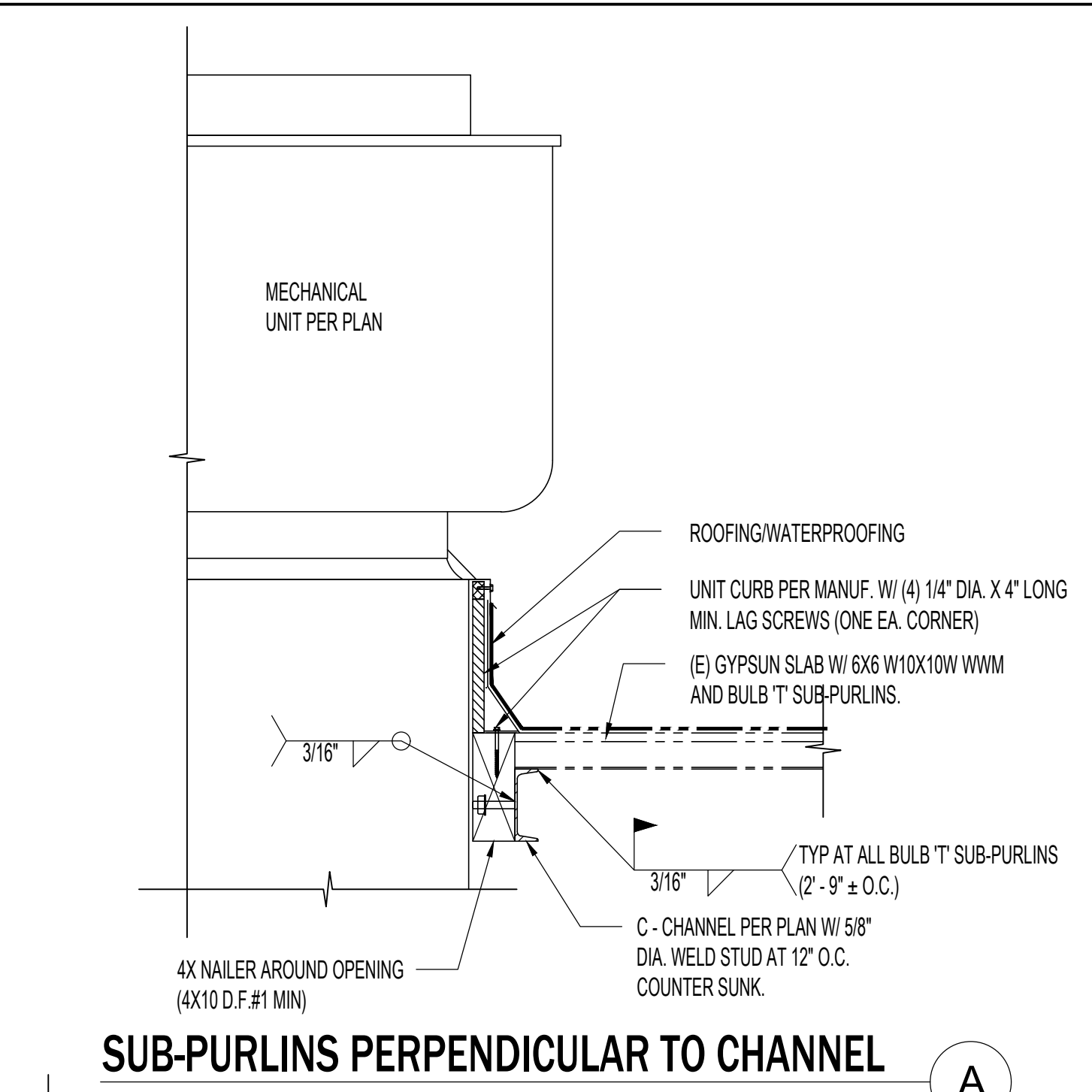
- ### SHEARWALL NOTES
1. ADJOINING PANEL EDGES SHALL BE 3" (INCH) NOMINAL OR THICKER (i.e. MIN 3x VERTICAL STUDS AND BLOCKING) NAILS SHALL BE STAGGERED IN TWO LINES ALONG PANEL EDGES WHERE NAILS ARE SPACED 2" INCHES ON CENTER OR WHEN 10d COMMON NAILS SPACED 3" O.C. PENETRATE FRAMING MORE THAN 1 5/8".
 2. NAILS SHALL BE PLACED NOT LESS THAN 1/2" INCH FROM PANEL EDGES. ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
 3. FOR HOLD-DOWNS AT THE END OF THE SHEAR WALL, SEE PLANS AND SCHEDULE. WHERE HOLDOWNS ARE CONNECTED TO POST WITH BOLTS, CONNECTOR BOLTS INTO WOOD FRAMING SHALL REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.229 INCH BY 3 INCHES BY 3 INCHES IN SIZE. HOLD-DOWN CONNECTORS SHALL BE FINGER TIGHT AND 1/2" WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
 4. FOR ALL WALLS, PROVIDE MINIMUM TWO BOLTS PER PIECE OF SILL PLATE & ONE LOCATED WITHIN 12" AND NOT LESS THAN 7 BOLT DIAMETER OR 4 3/8" OF EACH END OF EACH SILL PLATE. FOUNDATION SILL PLATE SHALL BE 2x. U.N.O.
 5. PROVIDE A PLATE WASHER AT ALL SILL PLATE ANCHOR BOLTS. MINIMUM SIZE IS 0.229" (3GA) THICK x 3" LONG x 3" WIDE. THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER (3/16" FOR 3/8" Ø BOLTS) AND A SLOT LENGTH NOT TO EXCEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT (SIMPSON BPS 58-3 OR EQUAL). THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING (USE 0.229" x 3" x 4 1/2" MIN. WASHER IN DOUBLE SIDED 2x6 WALL TO COMPLY WITH 1/2" REQUIREMENT).



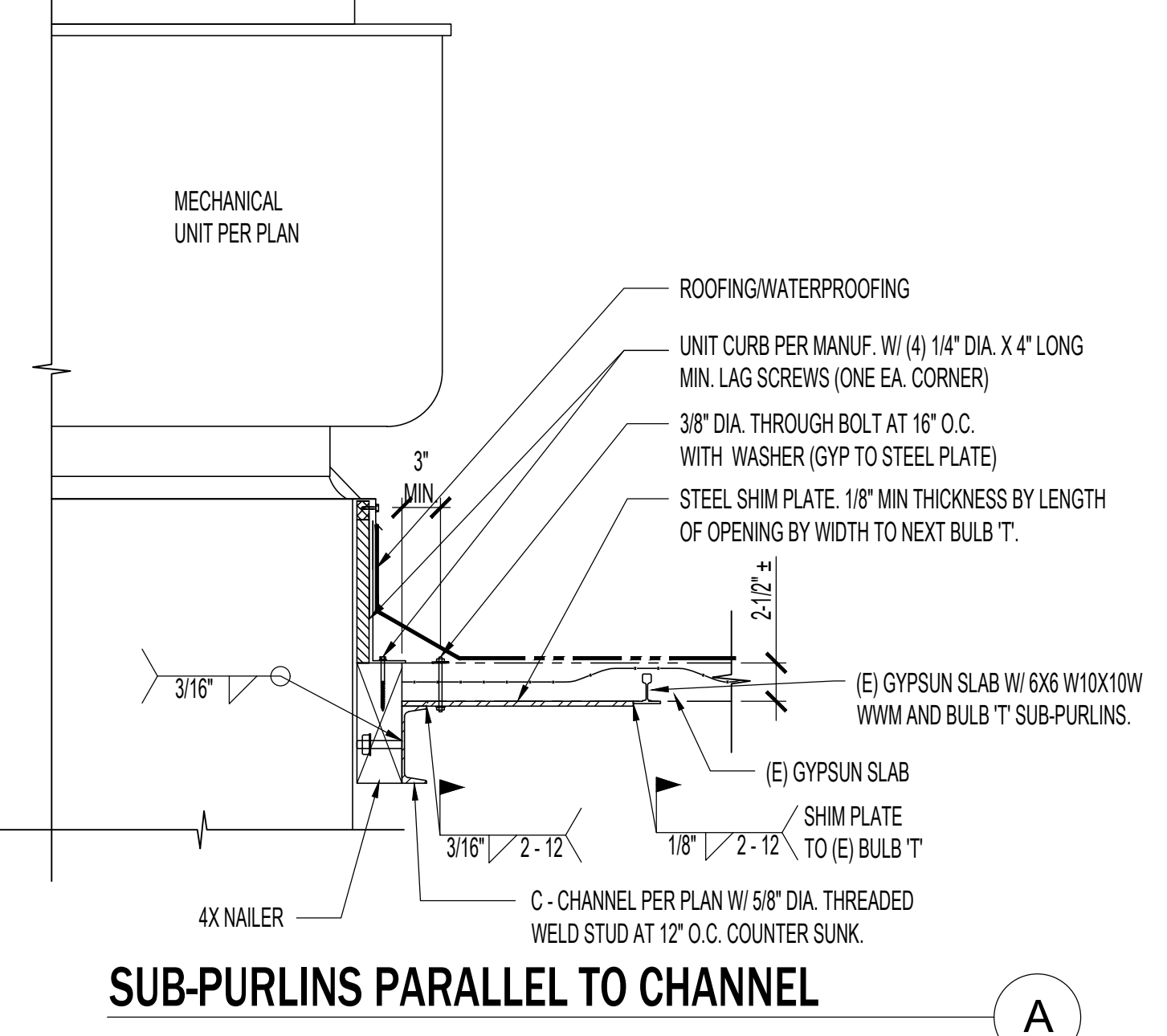
BOTTOM OF (N) SHEARWALL CONNECTION & SHEARWALL NOTES SCALE: 1"=1'-0" 9



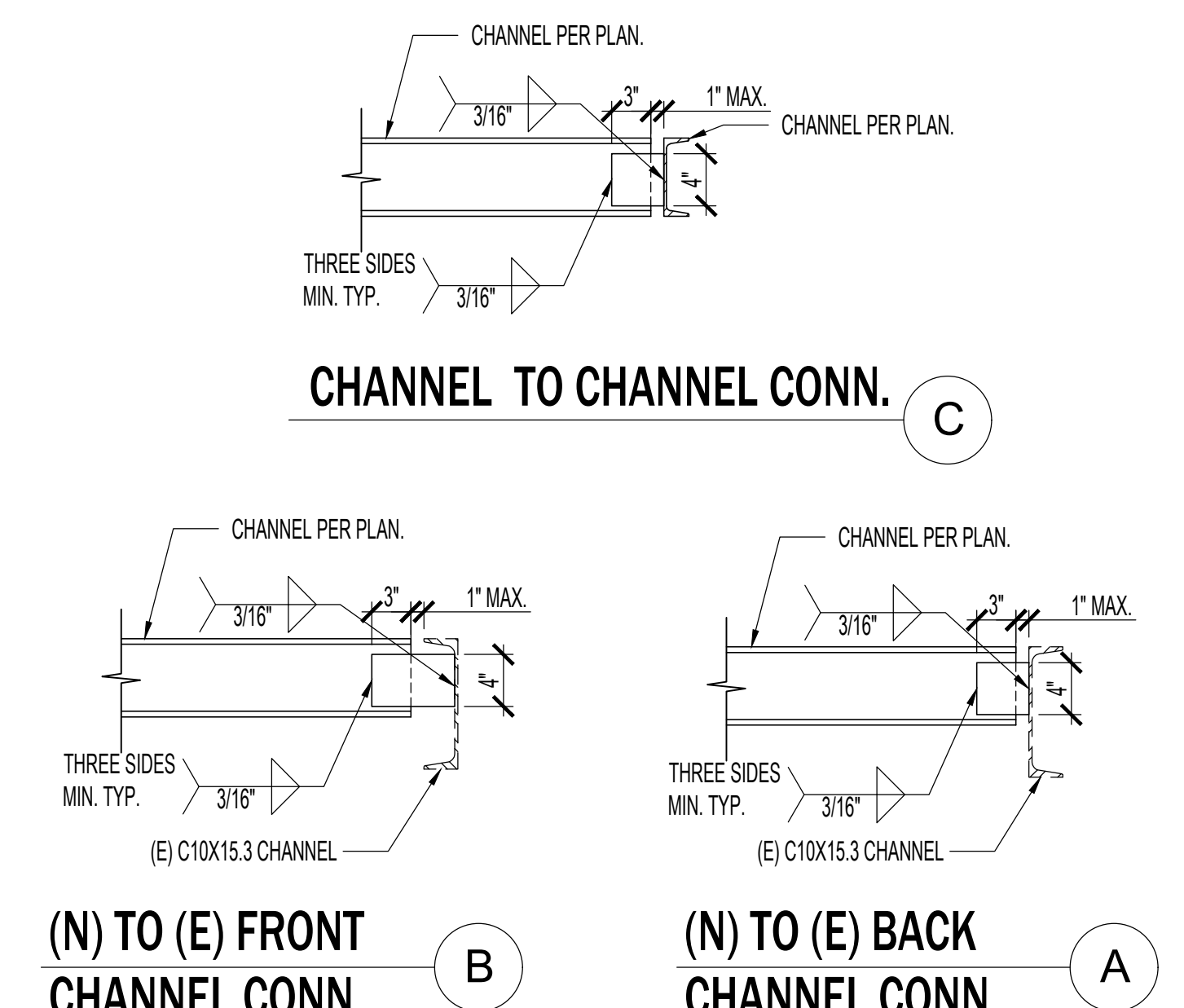
INVERTER ANCHORAGE (800 LBS MAX) SCALE: 1"=1'-0" 6



SUB-PURLINS PERPENDICULAR TO CHANNEL (A)



ROOF FAN (500 LBS MAX) SCALE: 1"=1'-0" 2



TYP CHANNEL TO CHANNEL CONN. SCALE: 1"=1'-0" 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

21-VCCCD-005- VENTURA COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA, CA 93003

COMMISSIONED ARCHITECT


AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 (818) 874-0071

CONSULTANT


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STAMPS/SEALS


WILLIAM A. LAMBERT
No. 5430
Exp. 06/30/2024
STRUCTURAL
STATE OF CALIFORNIA


WILLIAM J. AMADOR
C-20348
JANUARY 31, 2025
RENEWAL DATE
ARCHITECT
STATE OF CALIFORNIA

DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

STRUCTURAL DETAILS

PROJECT NO: 21-VCCCD-005

PROJECT ARCH: WJA

DRAWN: CRUZ REYES

CHECKED: WILL LAMBERT

SHEET NUMBER:

S301

DATE: 02/25/2022

SHEET: OF

MECHANICAL NOTES

1. SCOPE OF WORK: WORK INCLUDES THE FOLLOWING: FURNISH AND INSTALL ALL EQUIPMENT AND CONTROLS SHOWN ON THE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND DESCRIBED IN THESE NOTES, THE BOOK SPECIFICATIONS AND THE CONTRACT DOCUMENTS. WORK INCLUDES BUT IS NOT LIMITED TO: INSTALLATION OF NEW EXHAUST SYSTEMS; AND STARTUP AND COMMISSIONING OF NEW COMPLETE MECHANICAL AND CONTROL SYSTEMS AS DESCRIBED IN THE CONTRACT DOCUMENTS. INCLUDED ARE ALL DEVICES NEEDED TO MAKE COMPLETE AND FUNCTIONAL SPACE CONDITIONING SYSTEMS AND CONTROLS. CONTRACTOR SHALL FURNISH AND INSTALL, MAKE OPERABLE, AND TEST ALL SYSTEMS AND MECHANICAL EQUIPMENT SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS AND CONTRACT DOCUMENTS. IN CONNECTION THEREWITH, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY DEVICES, HARDWARE, AND SYSTEMS REQUIRED TO MAKE SAID EQUIPMENT PROPERLY AND SAFELY OPERABLE, INCLUDING BUT NOT LIMITED TO, MOUNTING HARDWARE, FILTERS, VIBRATION CONTROL DEVICES, DUCT SYSTEMS, CONTROL SYSTEMS, AND PATCHING AND PAINTING.

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT DOCUMENTS AND COST THEREOF. BIDDERS SHALL THOROUGHLY REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING WITHOUT LIMITATION, THE SPECIFICATIONS AND THE DRAWINGS. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY OF THE CONTRACT DOCUMENTS, FORMS, INSTRUMENTS, ADDENDA, OR OTHER DOCUMENTS OR TO INSPECT THE SITE SHALL NOT RELIEVE SUCH BIDDER FROM ANY OBLIGATIONS WITH RESPECT TO THE BID PROPOSAL, THE CONTRACT OR THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY TO ANY BIDDER FOR, NOR SHALL THE OWNER BE BOUND BY, ANY UNDERSTANDINGS, REPRESENTATIONS OR AGREEMENTS OF THE OWNER'S AGENTS, EMPLOYEES OR OFFICERS CONCERNING THE CONTRACT DOCUMENTS OR THE WORK MADE PRIOR TO EXECUTION OF THE CONTRACT. THE SUBMISSION OF A BID PROPOSAL SHALL BE DEEMED PRIMA FACIE EVIDENCE OF THE BIDDER'S FULL COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION.

3. INTERPRETATION OF DRAWINGS, SPECIFICATIONS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS; FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THE CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS, ORDINANCES AND/OR LAWS, A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER, PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY. ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE OWNER OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER IS AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION. FAILURE TO REQUEST INTERPRETATION OR CLARIFICATION OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS PURSUANT TO THE FOREGOING SHALL BE DEEMED TO BE A WAIVER OF ANY DISCREPANCY, DEFECT, OR CONFLICT THEREIN.

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2019 CALIFORNIA PLUMBING CODE, THE 2019 CALIFORNIA MECHANICAL CODE, THE 2019 CALIFORNIA BUILDING CODE, THE STATE OF CALIFORNIA, THE LOCAL JURISDICTION, AND STANDARD CONSTRUCTION PRACTICES. ALL MECHANICAL EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH THE EQUIPMENT SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES, AND SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, DSA AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION, AND THE SCHOOL DISTRICT. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN. NOTHING IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO APPLICABLE CODES.

6. SUBMITTALS REQUIRED: PRIOR TO ORDERING EQUIPMENT AND MATERIALS, CONTRACTOR SHALL FURNISH TO ENGINEER / OWNER SUBMITTALS AND SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ORDERING OF EQUIPMENT AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY CONTRACTOR / ENGINEER / OWNER. COPIES OF ALL OWNER'S MANUALS, WARRANTIES AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE PRESENTED TO OWNER PRIOR TO THE COMPLETION OF THE PROJECT.

7. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. UNIT LOCATIONS: EQUIPMENT AND SYSTEM LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS AND EXISTING CONDITIONS IN THE FIELD, AND LOCATE UNITS AND DUCTWORK TO AVOID INTERFERENCE. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. ALLOW CLEARANCE FOR DUCTWORK AND PIPING. ALL CLEARANCES REQUIRED BY UNIT MANUFACTURER SHALL BE MAINTAINED. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH CODES AND THE RECOMMENDED INSTALLATION PROCEDURES PUBLISHED BY THE MANUFACTURER.

9. DUCTWORK: CONTRACTOR SHALL INSTALL NEW DUCTWORK IN THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWINGS. ALL DUCTWORK SHALL BE SECURELY ANCHORED TO THE BUILDING IN AN APPROVED MANNER THAT WILL RENDER IT ABSOLUTELY FREE FROM VIBRATION AND LATERAL MOVEMENT. CONTRACTOR SHALL PROVIDE WITHOUT COST TO THE OWNER ALL REQUIRED TRANSITIONS AND OFFSETS TO AVOID CONFLICTS WITH STRUCTURE AND OTHER TRADES.

10. DUCTWORK SHALL BE SPIRAL TYPE WITH BEADED COUPLING CONNECTIONS SEALED WITH HIGH TEMPERATURE SILICONE. DUCTWORK SHALL MEET THE FOLLOWING 6" THROUGH 10" - 28 GAGE, 12" THROUGH 14" - 26 GAGE, 16" THROUGH 26" - 24 GAGE. INSTALLATION SHALL BE STRAIGHT TRUE AND LEVEL. ELBOWS SHALL HAVE CENTERLINE RADIUS OF 1.5 X DIA. BRANCHES SHALL ENTER TAPERED SECTIONS @ 45 DEGREES MAXIMUM. MULTIPLE BRANCHES ENTERING SAME TAPERED SECTION SHALL BE OFFSET LONGITUDINALLY UNLESS CONDITIONS PREVENT. SPIRAL DUCT SHALL BE CLEAN AND FREE FROM DEFECT. JUST PRIOR TO PROJECT COMPLETION CLEAN EXPOSED DUCTING TO REMOVE DUST AND DEBRIS.

11. AT COMPLETION OF WORK, COMMISSION ALL HVAC EQUIPMENT AND PROVIDE ITEM BY ITEM REPORT WITH SETPOINTS, OPERATIONAL DATA, HOURS OF OPERATION, VENTILATION OPERATION.

12. BALANCING: FOLLOWING INSTALLATION, CONTRACTOR SHALL START UP AND BALANCE ALL HVAC SYSTEMS TO CONFORM TO AIR VOLUMES INDICATED ON PLANS. COPIES OF BALANCING RECORDS SHALL BE FURNISHED TO BUILDING OWNER AND PROJECT ARCHITECT.

13. VIBRATION ISOLATION: INSTALL FLEXIBLE CONNECTIONS BETWEEN MECHANICAL EQUIPMENT AND DUCTWORK. ISOLATE PIPING & DUCTWORK FROM STRUCTURE TO PREVENT EXCESSIVE VIBRATION. AFTER START-UP VERIFY THAT NO VIBRATION IS TRANSMITTED. CORRECT ANY DEFICIENCIES.

14. DUCT SUPPORTS AND HANGERS: DUCT SUPPORTS SHALL BE PER THE 2019 CALIFORNIA MECHANICAL CODE. ALL ROUND DUCTS SHALL BE SUPPORTED WITH ONE INCH WIDE 22 GAUGE HANGER STRAPS. SUPPORTS SHALL BE LOCATED ON TWO OPPOSITE SIDES OF THE DUCT. SHALL BE METAL SCREWED TO THE SIDES AND BOTTOM OF THE DUCT, SHALL BE SPACED AT NOT MORE THAN 7'-8" ON CENTERS AND SHALL BE Laterally BRACED. SECURE STRAPS TO STRUCTURAL FRAMING PER SMACNA STDs. FOR SEISMIC LEVEL "AA".

15. VOLUME DAMPERS: LOCKING SHEET METAL VOLUME DAMPERS SHALL BE INSTALLED AT THE POINT OF TAKE-OFF FROM MAIN DUCTING AT ALL LOCATIONS SHOWN ON PLANS AND ELSEWHERE AS NECESSARY FOR PROPER BALANCING OF THE SYSTEM. BALANCING AT DIFFUSERS OR RETURN AIR GRILLES ONLY WILL NOT BE PERMITTED. AT LOCATION WHERE DAMPER ACCESS IS LIMITED, PROVIDE POTTORFF REMOTE ACCESS DAMPER W/ BOX & COVER PLATE AT CONCEALED LOCATIONS. PROVIDE BELIMO OR SIMILAR ACTUATORS AT SPECIFIED LOCATIONS CONTROL DAMPERS.

16. EXHAUST FAN DISCHARGE: ALL EXHAUST FAN DUCTWORK SHALL BE RUN TO A POINT AT LEAST 10 FEET FROM AIR INTAKES OR OTHER OPENINGS TO THE BUILDING.

17. COORDINATION: MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH THE DISTRICT'S PROJECT MANAGER AND ALL RELATED TRADES.

18. CLEANUP: EVERY DAY, AND AFTER ALL WORK HAS BEEN COMPLETED, CONTRACTOR SHALL CLEAN ENTIRE JOB-SITE OF ALL DEBRIS ASSOCIATED WITH MECHANICAL SYSTEMS. EXPOSED PARTS WHICH ARE TO BE PAINTED SHALL BE THOROUGHLY CLEANED READY FOR PAINTING.

19. COORDINATION DURING CONSTRUCTION: THE CONTRACTOR SHALL COORDINATE ANY NECESSARY CHANGES IN WORK SCHEDULING WITH THE DISTRICT TO MINIMIZE THE DISRUPTION. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY HIS WORK TO BUILDING(S) AND EQUIPMENT AT NO ADDITIONAL COST TO THE DISTRICT.

20. CORRECTION OF WORK: THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK THE DISTRICT FINDS DEFECTIVE OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BEAR ALL COSTS REQUIRED BY THE CONTRACT DOCUMENTS, IF ANY OF THE WORK IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF A WRITTEN NOTICE FROM THE DISTRICT TO DO SO.

21. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE DISTRICT PRIOR TO ACCEPTANCE OF THE PROJECT. AS-BUILTS SHALL BE ON PRINTED SHEETS AND ON MAGNETIC MEDIA.

22. WIRING: ALL WIRING SHALL BE PERFORMED IN ACCORDANCE WITH NEC REQTS. ALL WIRING SHALL BE IN CONDUIT. ALL INTERIOR LOW VOLTAGE AND CONTROL WIRING SHALL BE IN WIREMOLD AND IN FAN ROOMS SHALL BE IN CONDUIT. EXPOSED CONDUIT SHALL BE INSTALLED IN A SQUARE, PLUMB, AND LEVEL MANNER WITH THOUGHT GIVEN TO THE FINAL APPEARANCES. PROVIDE TO ENGINEER SHOP DRAWING FOR CONTROL TRANSFORMER CONFIGURATIONS DETAILING CIRCUITS TO BE USED, LOAD CALCULATIONS, WIRE SIZES, AND LOCATIONS. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND ELECTRICAL SPECIFICATIONS. ALL TRANSFORMERS SHALL BE PROTECTED BY PROPERLY SIZED CIRCUIT BREAKER OR FUSE(S). ALL TRANSFORMERS SHALL HAVE RESETABLE BREAKER ON THE LOAD SIDE. ALL LOW VOLTAGE CONTROL & COMMUNICATIONS WIRING SHALL BE DONE ACCORDING TO MANUFACTURERS INSTALLATION MANUAL. PROVIDE SUBMITTALS ON WIRE AND ENCLOSURES.

MECHANICAL SCHEDULE

EF 1 EXHAUST FAN. GREENHECK MODEL CUBE-240XP. UPBLAST,BELT DRIVE FAN. 1,320 CFM @ 2.2" WG. MOUNTED ON FACTORY PITCHED CURB, & BUTTERFLY DAMPER. ELECTRICAL DATA: 460/3/60 1.5 HP, FLA 3.0 AMPS. W/ ABB VFD: MODEL ACH580-PCR-03A0 480V, 1.5 HP W/ NEMA 3R ENCLOSURE. OPERATING WEIGHT: 190 LBS

EF 2 EXHAUST FAN. GREENHECK MODEL CUBE-360XP-75. UPBLAST,BELT DRIVE FAN. 4,800 CFM @ 3.30" WG MOUNTED ON FACTORY ROOFTOP PITCHED CURB. W/ ABB VFD, & BUTTERFLY DAMPER. W/ ELECTRICAL DATA: 460/3/60 7.5HP, MCA-13.75 AMPS, MOCP-20 AMPS. W/ ABB VFD: MODEL ACH580-PCR-012A 480V, 7.5 HP. WITH 3R NEMA ENCLOSURE. OPERATING WEIGHT: 453 LBS

EF 3 EXHAUST FAN. GREENHECK MODEL CUBE 300XP. UPBLAST,BELT DRIVE FAN. 4,290 CFM @ 2.5" WG. MOUNTED ON FACTORY PITCHED CURB, & BUTTERFLY DAMPER. ELECTRICAL DATA: 460/3/60 5 HP, FLA 7.6 AMPS. W/ ABB VFD: MODEL ACH580-PCR-07A0 480V, 5 HP. WITH NEMA 3R ENCLOSURE. OPERATING WEIGHT: 303 LBS

MHR 1 A THRU F MOTORIZED HOSE REEL. PLYMOVENT MODEL MHR, W/ EF2 HOSE, RUBBER NOZZLE WITH VISE GRIP AND DAMPER, AND PENDANT CONTROL ON-OFF PUSH BUTTON. ELECTRICAL DATA: 208V/1/60HZ, 2 AMPS OPERATING WEIGHT: 145 LBS COORDINATE W/ ARCH/OWNER/MANUF. LOCATION OF VEHICLES FOR PROPER LOCATION OF MOTORIZED HOSE REEL AND LENGTH OF HOSE.

FE 1 FIXED EXTRACTOR SINGLE HOSE DROP.PLYMOVENT MODEL FE W/ EF2 HOSE AND RUBBER NOZZLE WITH VISE GRIP AND DAMPER. COORDINATE W/ ARCH/OWNER/MANUF. LOCATION OF VEHICLES FOR PROPER LOCATION OF HOSE EXTRACTORS AND LENGTH OF HOSE. OPERATING WEIGHT: 36 LBS

ABBREVIATIONS

ABBREV. ABBREVIATIONS
ABV. ABOVE
APPROX. APPROXIMATELY
AFF. ABOVE FINISHED FLOOR
AHU. AIR HANDLING UNIT
BLDG. BUILDING
BLW. BELOW
BTM. BOTTOM
CD. CEILING DIFFUSER
CFM. CUBIC FEET PER MINUTE
CL. CENTERLINE
CLG. CEILING
CONC. CONCRETE
COND. CONDENSATE
CONT. CONTINUED
DIA. DIAMETER
DN. DOWN
DSA. DIVISION OF THE STATE ARCHITECT
DWG. DRAWING
(E). EXISTING
EA. EACH
EL.ELEV. ELEVATION
ELEC. ELECTRIC
EQ. EQUIPMENT
EQUIP. EQUIPMENT
ESP. EXTERNAL STATIC PRESSURE
EXH. EXHAUST
FIN. FINISHED
FLR. FLOOR
FRM. FROM
G. GAS
GDW. GYPSUM DRYWALL
GPM. GALLONS PER MINUTE
GSM. GALVANIZED STEEL METAL
HDG. HOT DIPPED GALVANIZED
HP. HORSE POWER
MIN. MINIMUM
MAX. MAXIMUM
MTL. METAL
(N). NEW
OC. ON CENTER
POC. POINT OF CONNECTION
POD. POINT OF DISCONNECTION
PSI. POUNDS PER SQUARE INCH
RAG. RETURN AIR GRILLE
RAR. RETURN AIR REGISTER
SA. SUPPLY AIR
SD. SMOKE DETECTOR
SHT. SHEET
SMS. SHEET METAL SCREW
SR. SIDEWALL REGISTER
SOV. SHUT-OFF VALVE
SPEC. SPECIFICATIONS
SS. STAINLESS STEEL
STL. STEEL
UGND. UNDERGROUND
VD. VOLUME DAMPER (LOCKING)
VTR. VENT TO ROOF
VAV. VARIABLE AIR VOLUME BOX
VFD. VARIABLE FREQUENCY DRIVE
WC. WATER COLUMN
WCO. WALL CLEAN-OUT
(TYP). TYPICAL

MEP COMPONENT ANCHORAGE NOTE

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 THE 2019 CBC SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26, AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVEABLE 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.
- 3. TEMPORARY, MOVEABLE 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 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 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 DIRECTION.

- 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 THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

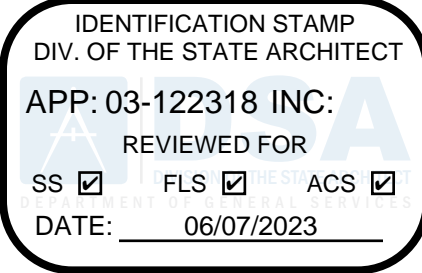
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

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 PREAPPROVED 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 BRACE LOADS.

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

- MP ☐ MD ☒ PP ☐ E ☐ - 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 #)

_____.

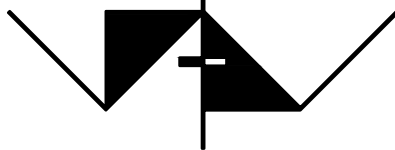


PROJECT TITLE

VCCCD - VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

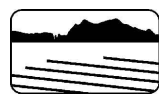
COMMISSIONED ARCHITECT



AMADOR WHITTLE
ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (818) 874-0071

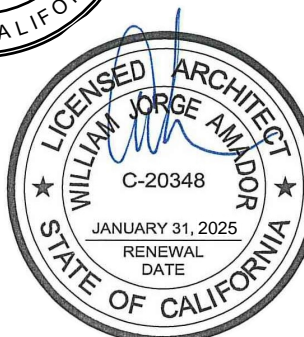
CONSULTANT



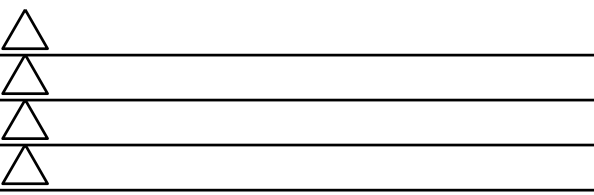
AE Group
Mechanical Engineers

838 East Front Street
Ventura, California 93001-2925
(805) 653-1722
hugh@aegroupme.com

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023



SHEET TITLE:

MECHANICAL
NOTES & SCHEDULE

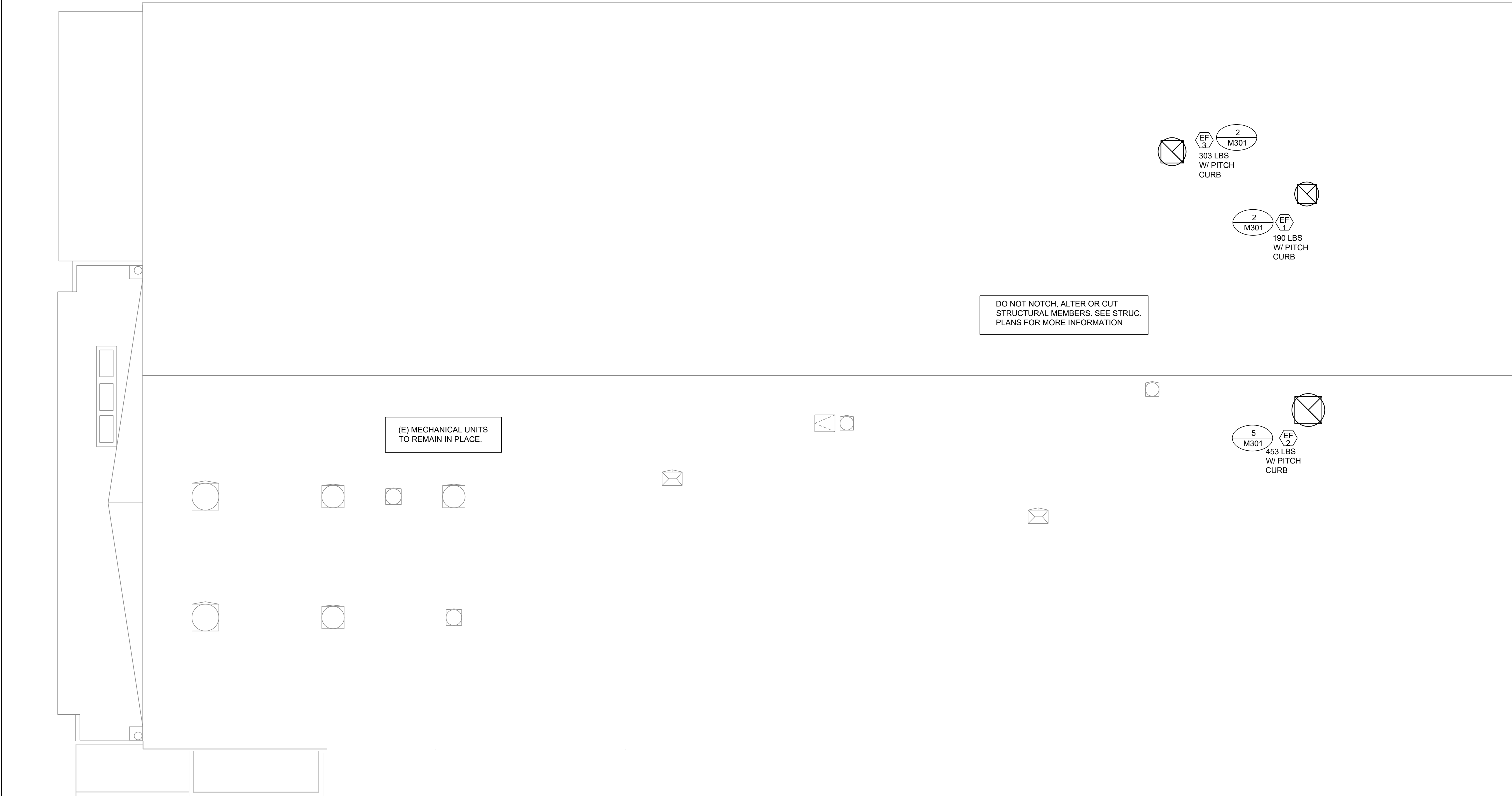
PROJECT NO: 21-AWA-040 PROJECT ARCH: HMPW
DRAWN: JS CHECKED:

SHEET NUMBER:

M101

DATE: 07/22/2022

SHEET: ____ OF ____



1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

VCCCD - VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT

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Mechanical Engineers

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(805) 653-1722
hugh@aegroupme.com

STAMPS/SEALS

REGISTERED PROFESSIONAL ENGINEER
HUGH A. McTERRILL
M030626
Ren. 6/30/24
MECHANICAL
STATE OF CALIFORNIA

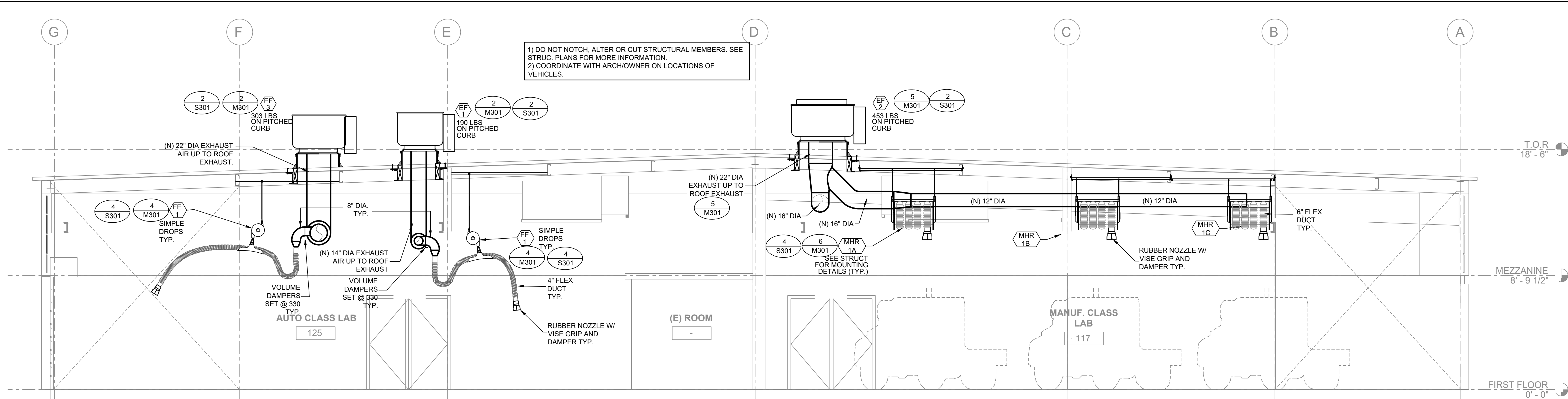
LICENSED ARCHITECT
WILLIAM JORGE AMADOR
C-20348
JANUARY 31, 2022
RENEWAL
DATE
STATE OF CALIFORNIA

DSA_V3 SUBMITTAL 04/19/2023

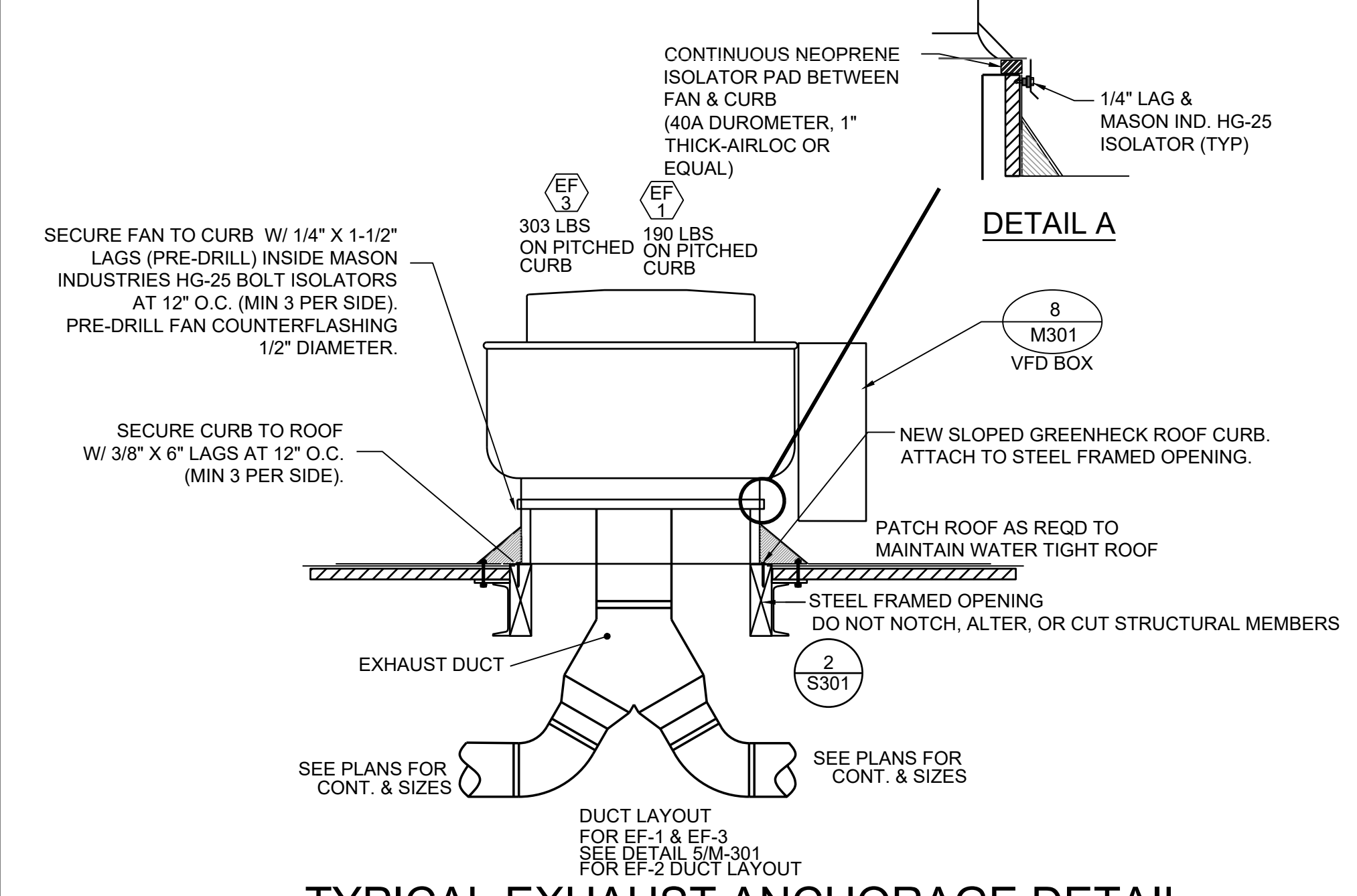
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MECHANICAL
ROOF PLAN

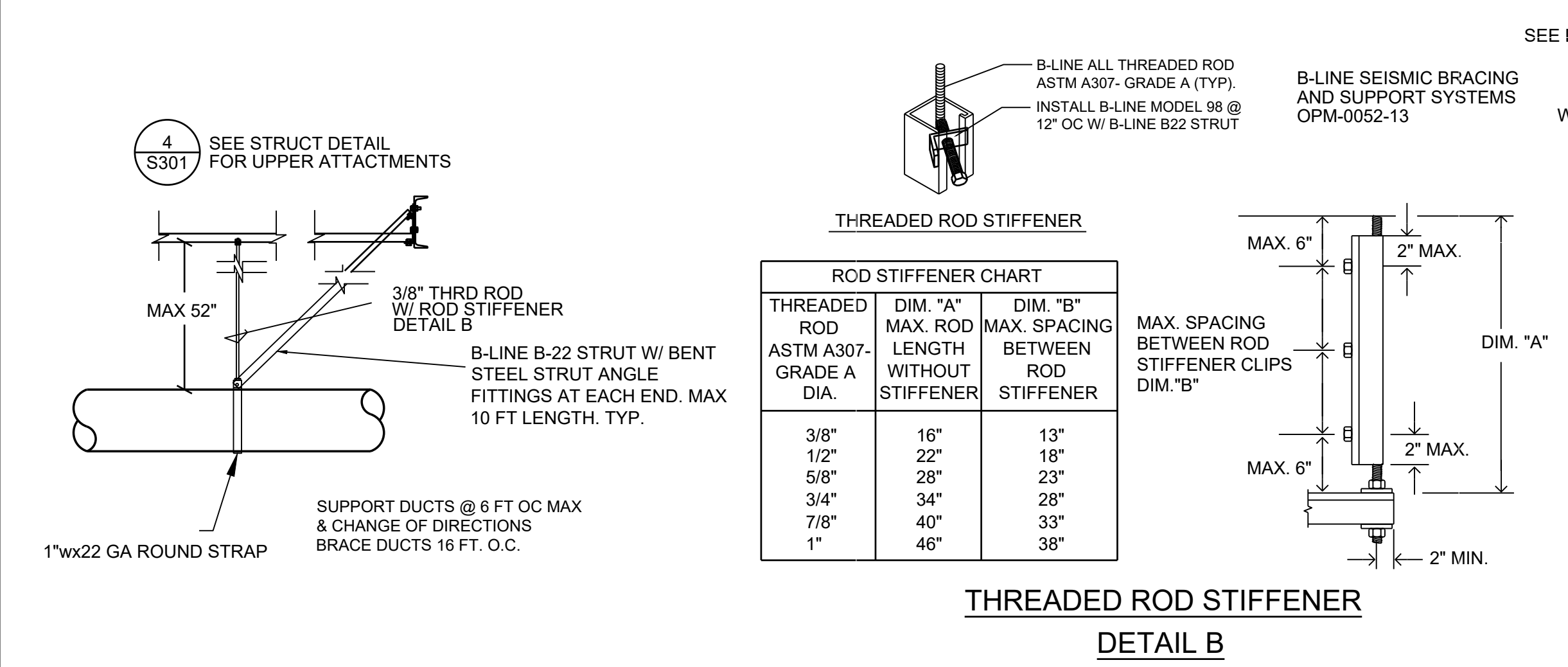
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DRAWN:	JS	CHECKED:	HM/PW
SHEET NUMBER:			
M202			
DATE: 07/22/2022		SHEET: ____ OF ____	



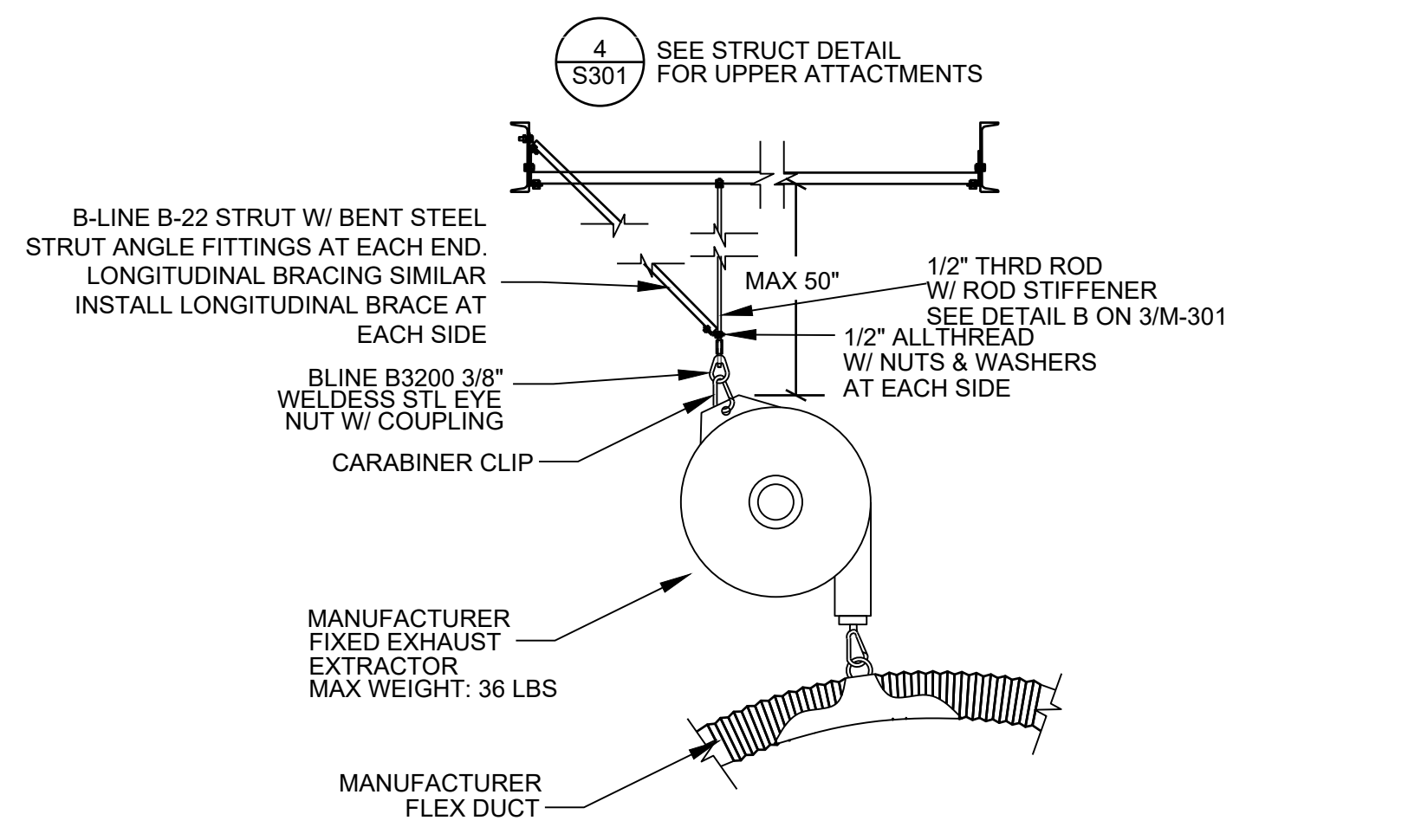
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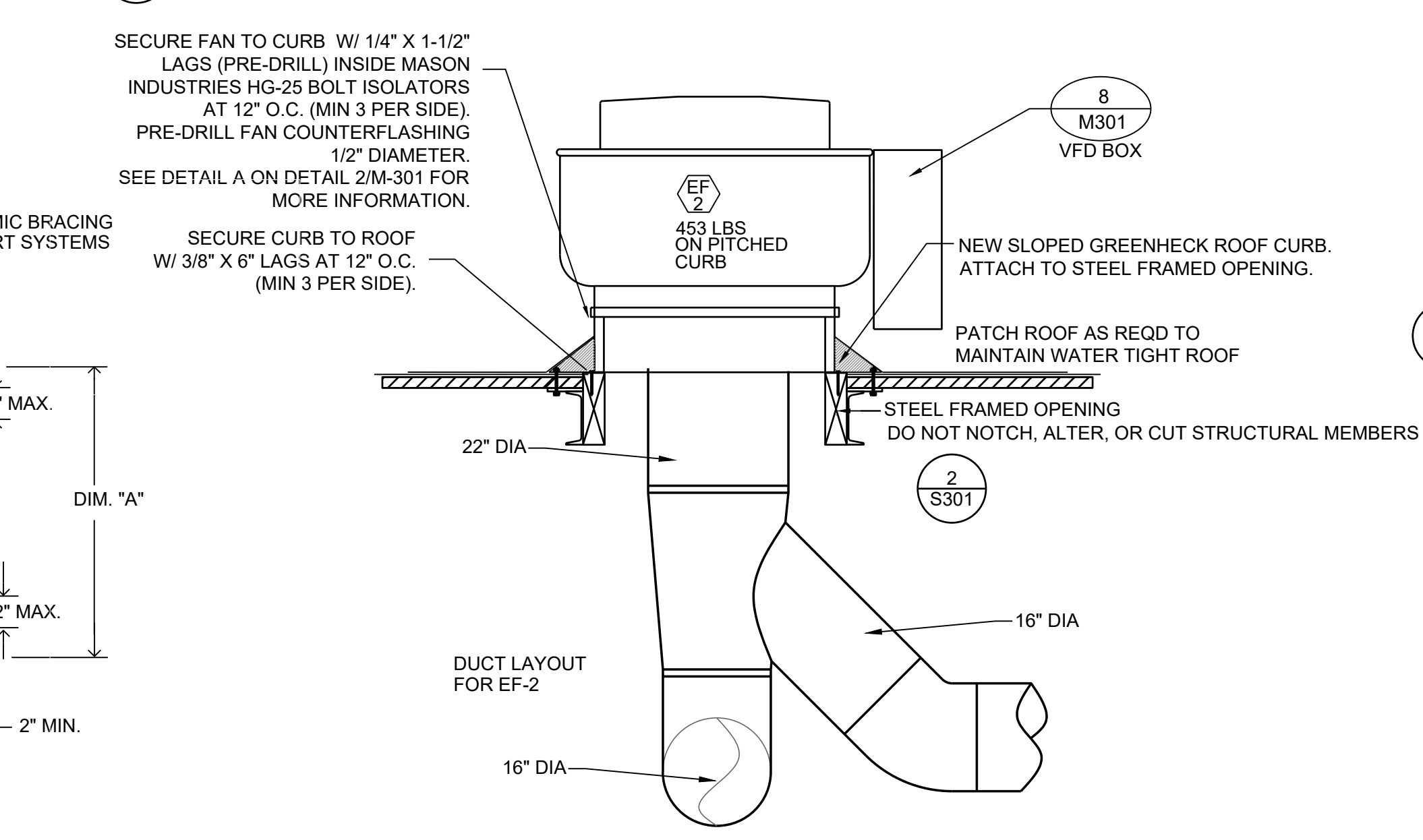
2 TYPICAL EXHAUST ANCHORAGE DETAIL
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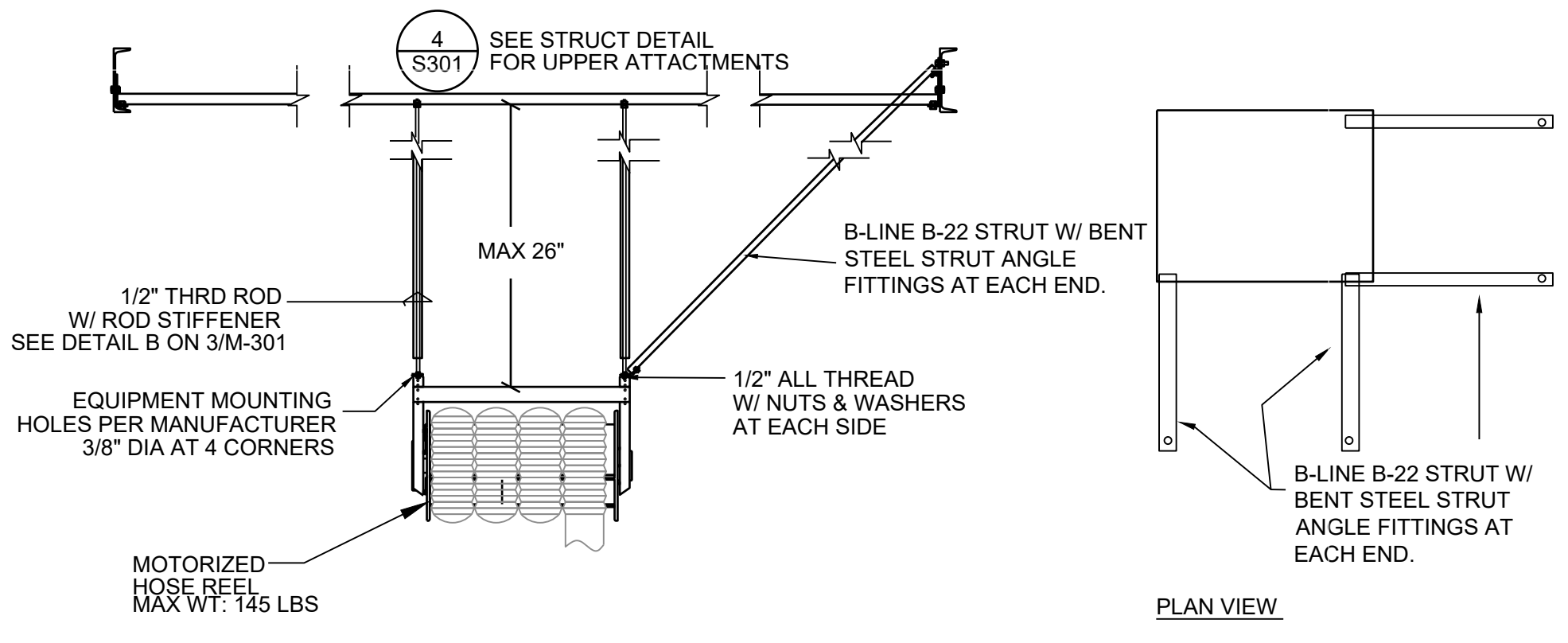
3 TYPICAL DUCT SUPPORT DETAIL
NO SCALE



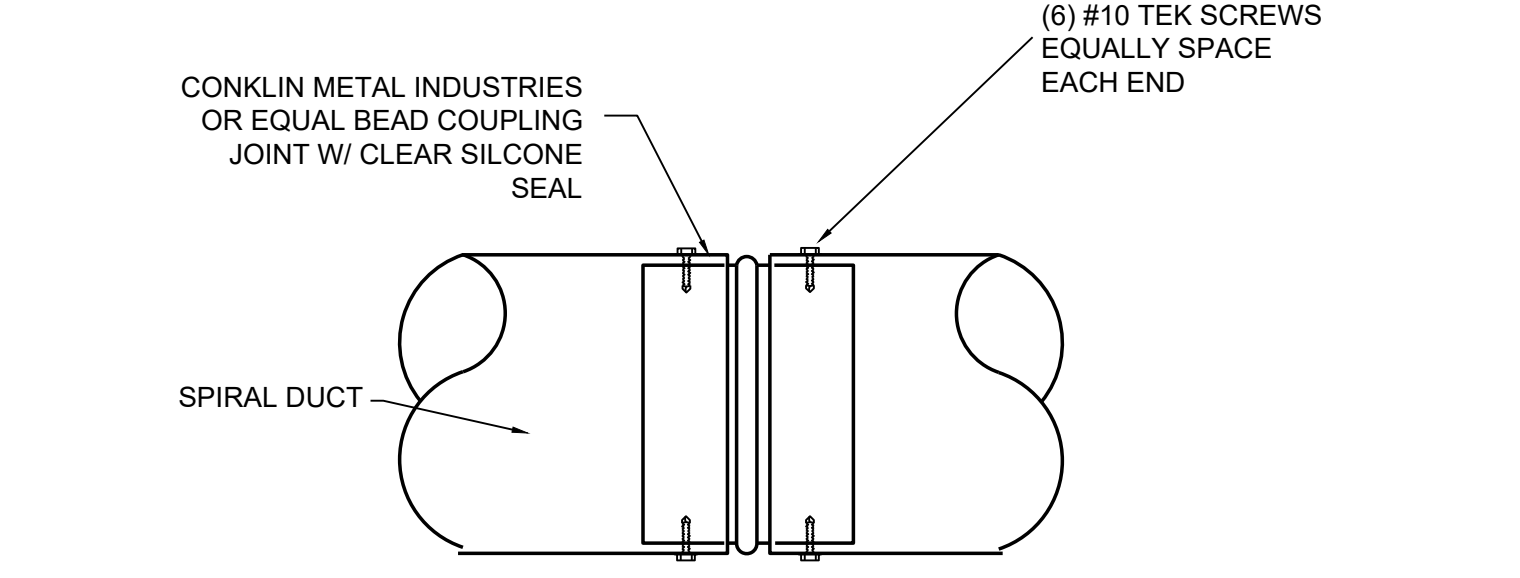
4 SINGLE DROP FIXED EXTRACTOR ANCHORAGE DETAIL
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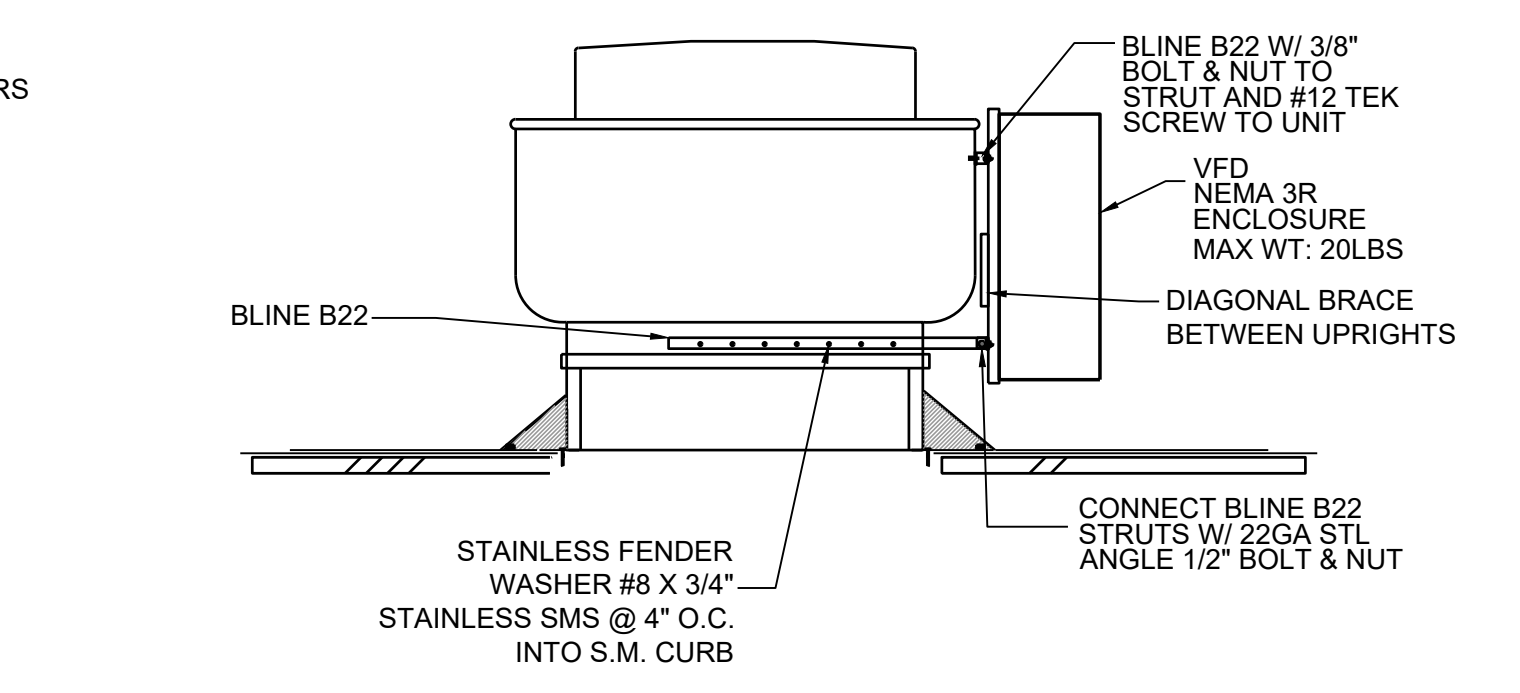
5 EXHAUST (EF-2) DUCT INLET DETAIL
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6 MOTORIZED HOSE REEL ANCHORAGE DETAIL
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7 TYPICAL DUCT JOINT CONNECTION DETAIL
NO SCALE



8 VFD CONTROL BOX ANCHOR DETAIL
NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
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SS ☒ FLS ☒ ACS ☒
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PROJECT TITLE
**VCCCD - VENTURA
COLLEGE DIESEL SHOP**

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COMMISSIONED ARCHITECT
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STAMPS/SEALS
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LICENSED ARCHITECT
WILLIAM JORGE AMADOR
C-20348
JANUARY 31, 2025
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DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:
**MECHANICAL
SECTION & DETAILS**

PROJECT NO.: 21-AWA-040 PROJECT ARCH:
DRAWN: JS CHECKED: HM/PW
SHEET NUMBER:
M301
DATE: 07/22/2022 SHEET: OF

CONTROL DEVICE SCHEDULE AND LEGEND

INSTALL NEW AUTOMATED LOGIC CONTROL MODULES. SYSTEM TO CONTROL NEW EXHAUST FANS. INCLUDE ALL NEEDED, CONNECTORS, WIRE, TRANSFORMERS, ENCLOSURES, BOXES, ETC. PROGRAMMING AND FUNCTION TESTING TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. INCLUDE TWO HOURS OF TRAINING.

P #

PRESSURE SENSOR VERIS MODEL PX3 SERIES. RANGING 0-10 IN WC AND 0-6000 FT/MIN. 0-10V

SE6104SP CONTROL MODULE 6 BINARY OUTPUTS, 10 UNIVERSAL INPUTS, 4 ANALOG OUTPUT FOR EF-2 ONLY. AUTOMATED LOGIC CONTROLS.

SE6166 CONTROL MODULE 6 BINARY OUTPUTS, 6 UNIVERSAL INPUTS, 6 ANALOG OUTPUT COMBINE EF-1 & EF-3. AUTOMATED LOGIC CONTROLS.

ENC-1 CONTROL ENCLOSURE. B-LINE OR HOFFMAN. EXTERIOR ENCLOSURES SHALL BE RATED NEMA 3R.

SW

KACON T22-372GA2 MAINTAINED PUSH BUTTON SWITCH. GREEN LED.PROVIDE NEMA 1 ENCLOSURE, 110 VOLT 1.5 AMP.

POINTS LIST

EXHAUST FANS

INPUTS

PRESSURE SENSOR 1

PRESSURE SENSOR 2 (EF 3 & 2)

EXHAUST FAN STATUS

EF VFD FAULT

EF SWITCH ON/OFF

OUTPUTS

EF START/STOP

DAMPER ACTUATORS

DAMPER ACTUATORS

VFD SPEED CONTROL

SEQUENCE

RUN CONDITIONS - REQUESTED:

THE EXHAUST SYSTEM SHALL BE ALLOWED TO RUN BASED ON USER DEFINED TIME SCHEDULE OR VIA AN EXHAUST FAN SWITCH LOCATED IN THE SPACE. (MOMENTARY ON AND MOMENTARY OFF PUSH BUTTON TYPE WITH INDICATOR LIGHT FOR EXHAUST FAN STATUS ON INDICATION.)

EXHAUST FAN:

WHEN EXHAUST SYSTEM IS ENABLED. AN EXHAUST FAN SHALL RUN AT MINIMUM SPEED WITH THE CONTROL DAMPER AND ACTUATOR SET AT MINIMUM OPEN BASED ON AIR BALANCER AND PRESSURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

EXHAUST FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.

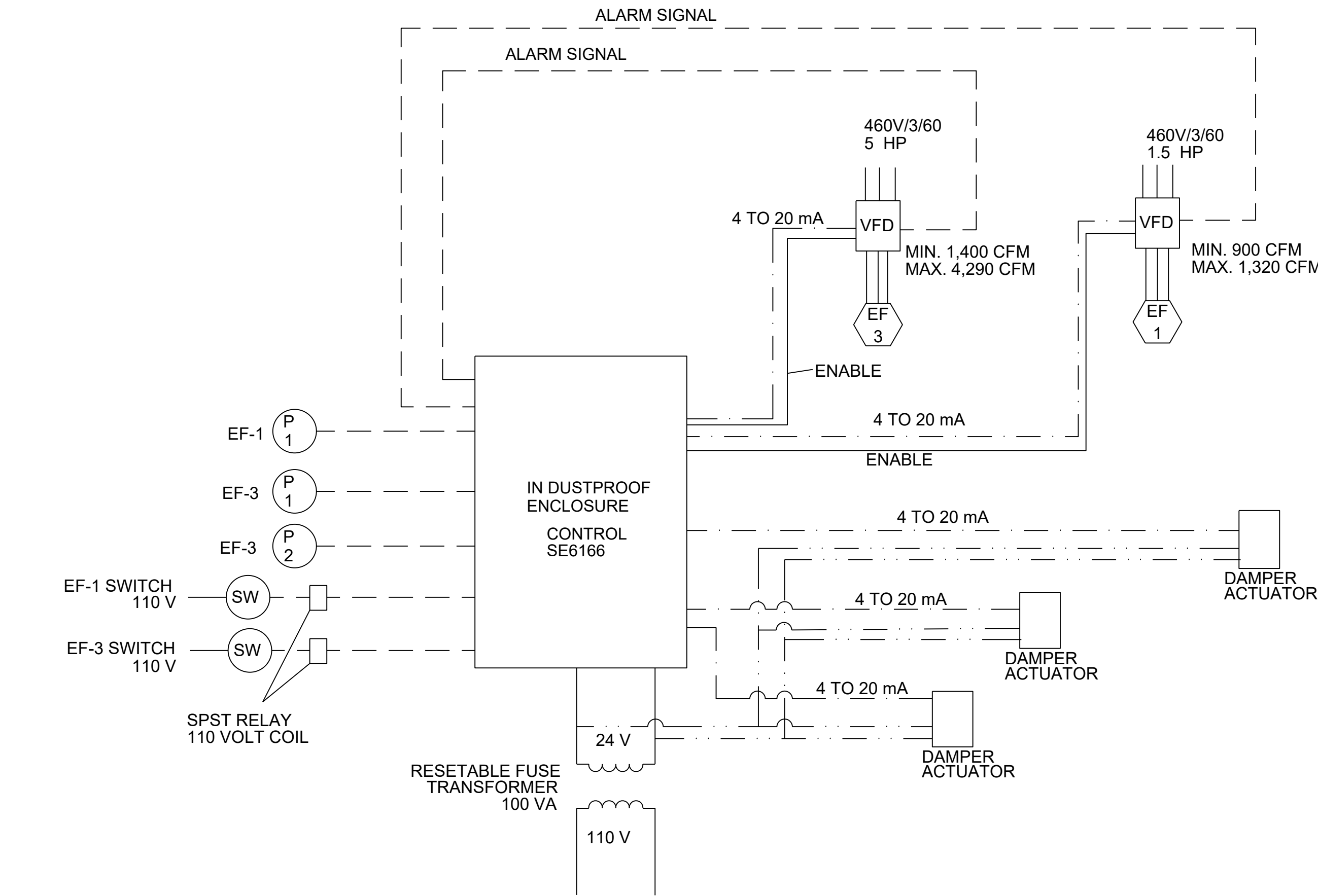
EXHAUST FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

EXHAUST FAN VFD FAULT.

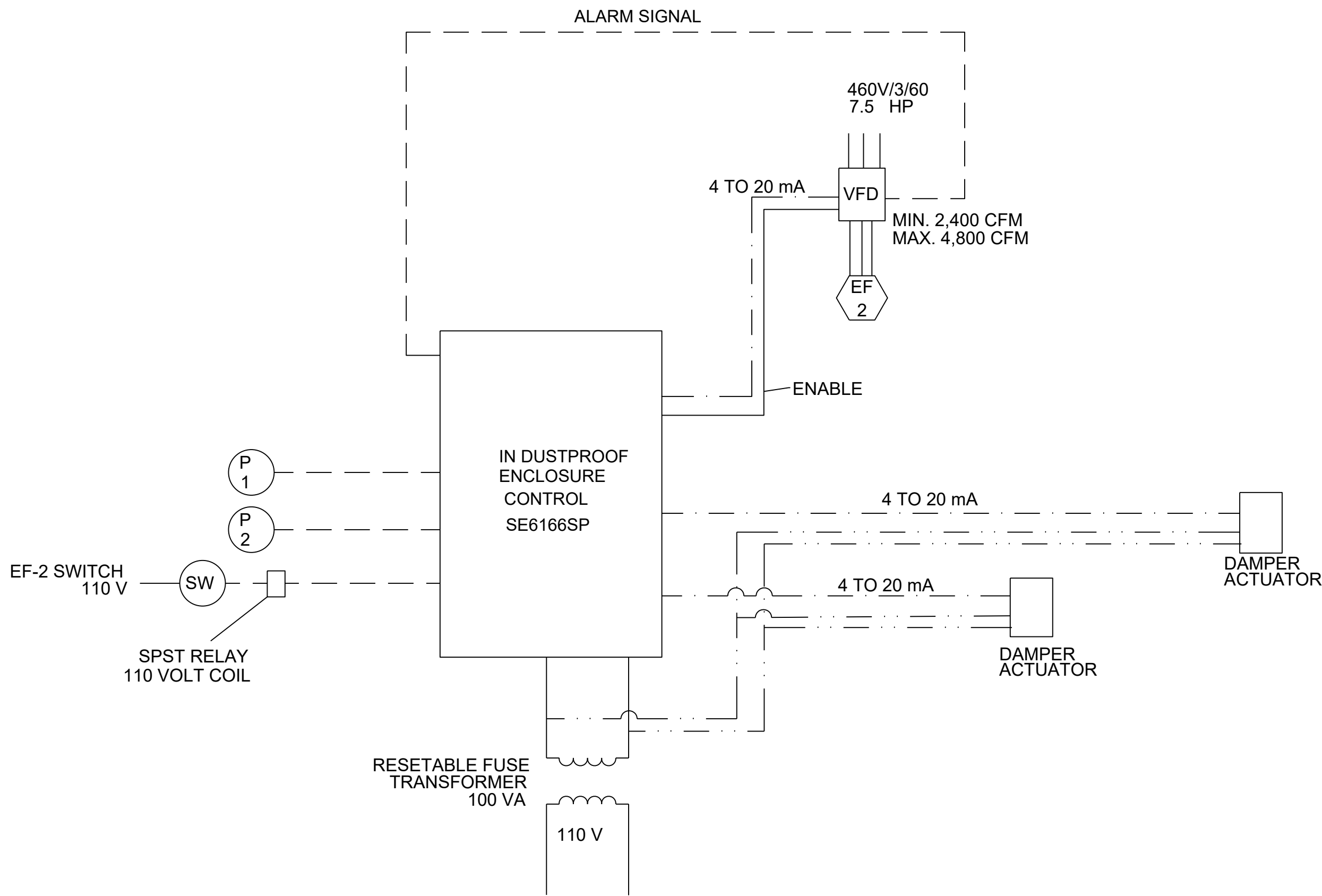
EXHAUST PRESSURE CONTROL:

THE CONTROLLER SHALL MEASURE EXHAUST PLENUM PRESSURES AT END OF EACH BRANCH DUCT. THE CONTROLLER SHALL MODULATE THE EXHAUST FAN VFD SPEED TO MAINTAIN AN EXHAUST PRESSURE SET POINT BASED ON THE WORST CASE PRESSURE SENSOR. THE EXHAUST FAN VFD SPEED SHALL NOT DROP BELOW 20%.

CONTROL DIAGRAM



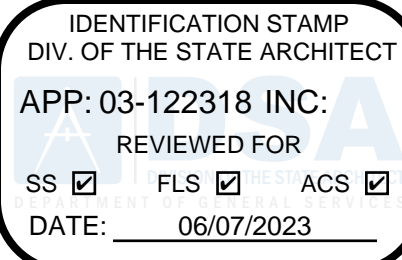
SYSTEM 1



SYSTEM 2

LINE LEGEND

LINE VOLTAGE	_____
INPUT LINE	_____
4 TO 20 MA	_____
24 VDC	_____

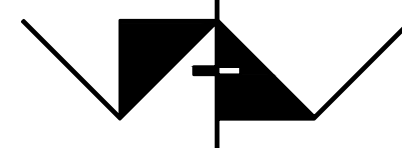


PROJECT TITLE

VCCCD - VENTURA COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA, CA 93003

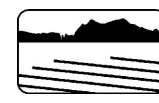
COMMISSIONED ARCHITECT



AMADOR WHITTLE ARCHITECTS, INC.

28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3838 , (818) 874-0071

CONSULTANT



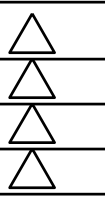
AE Group Mechanical Engineers

838 East Front Street
Ventura, California 93001-2925
(805) 653-1722
hugh@aegroupme.com

STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023



SHEET TITLE:

MECHANICAL CONTROLS

PROJECT NO.	21-AWA-040	PROJECT ARCH.	
DRAWN:	JS	CHECKED:	HMP/PW

SHEET NUMBER:

M401

DATE 07/22/2022

SHEET: ____ OF ____

GENERAL NOTES

1. DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES:
 - CALIFORNIA BUILDING CODE (CBC), 2013 EDITION
 - CALIFORNIA FIRE CODE (CFC), 2013 EDITION
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13 *STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2013 EDITION*
2. NO CHANGES TO THE "FP" SHEETS BY THE SPRINKLER SUBCONTRACTOR ARE ALLOWED EXCEPT FOR ADDING SHOP DRAWING INFORMATION. ALL REQUIRED REVISIONS TO THE "FP" SHEETS (OTHER THAN MINOR REVISIONS FOR THE PURPOSE OF COORDINATION) SHALL BE SUBMITTED IN WRITING AND SHALL BE APPROVED BY THE AHJ.
3. THE SPRINKLER SYSTEMS IN THIS BUILDING SHALL BE MONITORED BY A CENTRAL STATION SIGNALING SYSTEM FURNISHED AND INSTALLED BY THE ALARM CONTRACTOR. ALL TAMPER SWITCHES AND WATER FLOW INDICATORS SHALL BE INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED TO THE CENTRAL STATION SIGNALING SYSTEM BY THE ALARM CONTRACTOR.
4. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING, AND PAINTING REQUIRED FOR INSTALLATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED IN THE CALIFORNIA BUILDING CODE.
5. THE SPRINKLER CONTRACTOR SHALL BE C-16 LICENSED BY THE STATE OF CALIFORNIA FOR DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS.
6. SYSTEM DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13. MATERIALS TO BE UL LISTED OR FM APPROVED.
7. ALL NEW FIRE SYSTEM PIPING (ABOVE GROUND) 2½" TO 8" TO BE SCHEDULE 10 BLACK STEEL AND SCHEDULE 40 BLACK STEEL FOR 1" TO 2".
8. ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTER DIMENSIONS.
9. HANGER LOCATION FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13, SECTIONS 9.2 THROUGH 9.2.6.2. SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED. ALTERNATE UL AND FM HANGER METHODS ARE ACCEPTED AT NO ADDITIONAL COST TO THE OWNER.
10. PROVIDE RIGID COUPLINGS THROUGHOUT, EXCEPT FLEXIBLE COUPLINGS SHALL BE INSTALLED AS FOLLOWS:

a. WITHIN 24 IN. OF THE TOP AND BOTTOM OF ALL RISERS;

b. ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 3 FT. OF THE WALL SURFACE;

c. WITHIN 24 IN. OF BUILDING EXPANSION JOINTS;

d. WITHIN 24 IN. OF THE TOP AND BOTTOM OF DROPS TO HOSE LINES, RACK SPRINKLERS, AND MEZZANINES, REGARDLESS OF PIPE SIZE;

e. WITHIN 24 IN. OF THE TOP OF DROPS EXCEEDING 15 FT. IN LENGTH TO PORTIONS OF SYSTEMS SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE;

f. ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
12. ALL WELDING TO BE DONE BY CERTIFIED WELDERS.
13. JOINING OF LIGHTWALL PIPE AND FITTINGS SHALL BE DONE WITH GROOVED COUPLINGS. JOINING OF THREADABLE PIPE AS ALLOWED BY NFPA 13 SHALL BE DONE WITH THREADED CAST IRON OR DUCTILE IRON FITTINGS.
14. ALL INSPECTOR'S TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE IN ACCORDANCE WITH NFPA 13 (UNLESS NOTED OTHERWISE) AND SHALL BE DISPLAYED ON SHOP DRAWINGS.
15. THE OVERHEAD PORTION OF THIS SYSTEM SHALL BE TESTED AT 200 PSI FOR 2 HOURS. THIS SYSTEM SHALL BE FLUSHED IN ACCORDANCE WITH NFPA 24 BEFORE CONNECTION WITH THE OVERHEAD SYSTEM AND BE TESTED AT 200 PSI FOR 2 HOURS.
16. THE SPRINKLER CONTRACTOR IS TO COORDINATE AND ADJUST SPRINKLERS TO ELECTRICAL, MECHANICAL, STRUCTURE AND ALL OTHER TRADES AT NO ADDITIONAL COST. INSTALL OFFSETS AS REQUIRED FOR COORDINATION WITH OTHER TRADES.
17. OWNER SHALL BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK, AND A SPARE HEAD CABINET WITH SPRINKLERS AND A WRENCH IN ACCORDANCE WITH NFPA 13.
18. THE SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO AHJ FOR FILLING IN PROJECT RECORDS.
19. REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING DIMENSIONS AND DETAILS. DO NOT SCALE "FP" DRAWINGS FOR CONSTRUCTION PURPOSES.

DESCRIPTION OF WORK

1. REVISE THE EXISTING FIRE SPRINKLER SYSTEM TO ACCOMMODATE THE REPURPOSING OF THE MANUFACTURING LAB CLASSROOM.

PROJECT DATA

PROJECT:	VCCCD - VENTURA COLLEGE DIESEL SHOP
ADDRESS:	4667 TELEGRAPH RD. VENTURA, CA 93003
OCCUPANCY GROUP:	S-1
CONSTRUCTION:	TYPE V-B
BUILDING AREA:	3,420 SQ. FT.
STORIES:	1 STORY BUILDING

DESIGN CRITERIA

1. ORDINARY HAZARD GROUP 2 WET PIPE SPRINKLER SYSTEM DESIGNED TO PROVIDE 0.20 GPM/FT² OVER THE MOST DEMANDING 1,500 FT² INCLUDING A HOSE DEMAND OF 250 GPM. MAXIMUM SPRINKLER SPACING SHALL BE 130 FT².

FLOW TEST DATA
TEST PERFORMED ON WATER MAIN UNDER LOMA VISTA RD.
MAIN SYSTEM TYPE: LOOPED
EFFECTIVE POINT: FIRE LATERAL CONNECTION TO WATER MAIN
STATIC PRESSURE: 50 PSI RESIDUAL PRESSURE: 48 PSI FLOW: 919 GPM
TEST PERFORMED BY THE CITY OF SAN BUENAVENTURA WATER DIVISION. DATE: 2/3/2022

FLOW TEST DATA - REDUCED
FLOW TEST DATA TO BE REDUCED BY 10% FOR HYDRAULIC CALCULATIONS AS FOLLOWS: STATIC PRESSURE: 45.0 PSI RESIDUAL PRESSURE: 43.2 PSI FLOW: 919 GPM

SYMBOLS LEGEND

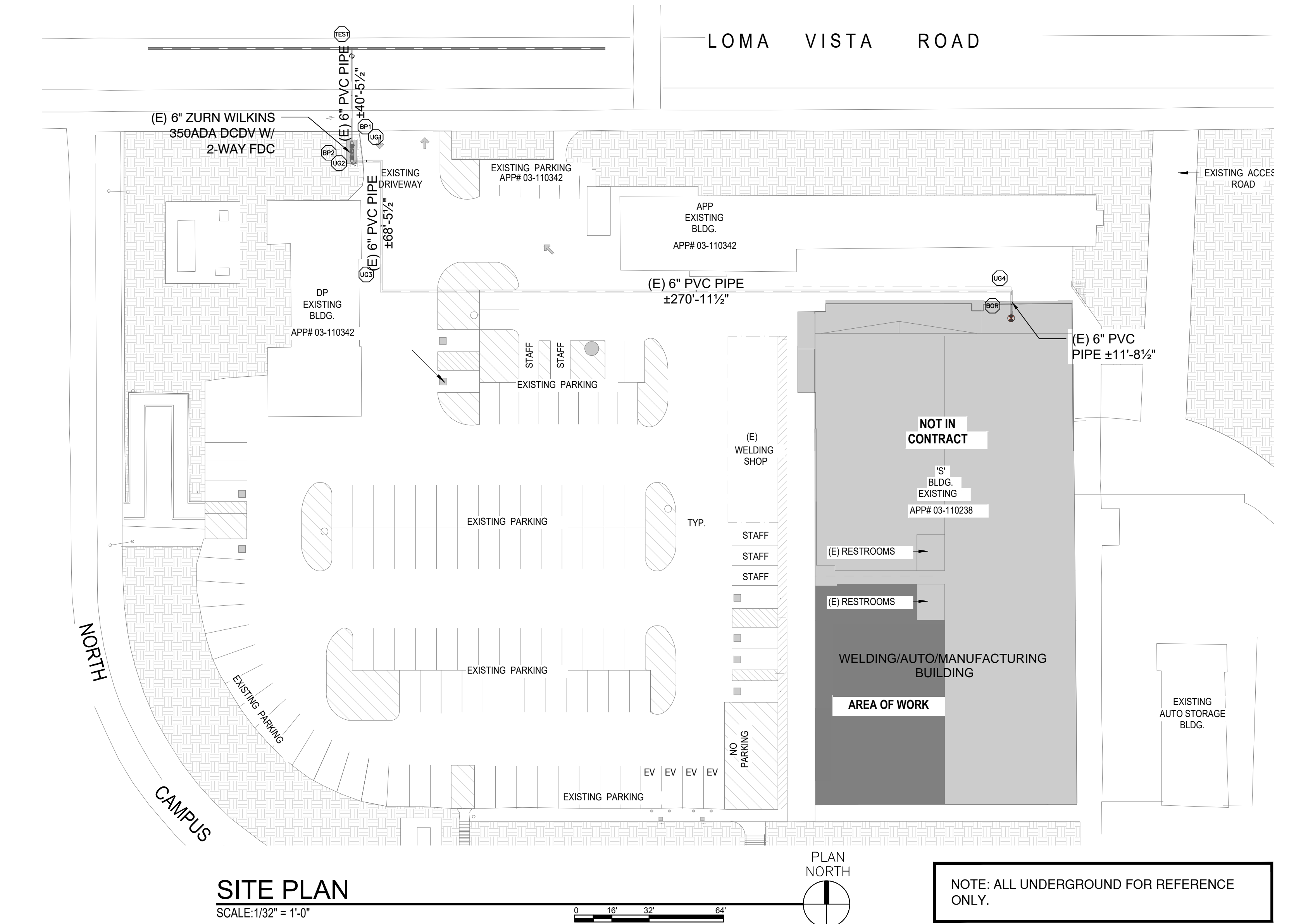
	HYDRAULIC REFERENCE POINT
	ELEV. BELOW TOP OF STEEL
	ELEV. ABOVE FINISHED FLOOR
	CEILING HEIGHT
	RISE UP OR DOWN
	ELBOW LOOKING DOWN
	OUTLET
	FIRE SPRINKLER SYSTEM RISER
	PIPE CONTINUATION
	RIGID GROOVED COUPLING
	FLEXIBLE GROOVED COUPLING
	CAP
	DENOTES HANGER LOCATION
	BRANCHLINE RESTRAINT
	2-WAY SEISMIC BRACE
	4-WAY SEISMIC BRACE
	MECHANICAL TEE
	HOSE CONNECTION, WET STANDPIPE
	FIRE HYDRANT
	THREADED ADAPTER
	GROOVED ADAPTER

PIPING LEGEND

	NEW PIPE
	EXISTING PIPE
	DEMO PIPE
	DIAMETER OF PIPE (BOLD = SLOPED PIPE)
	LENGTH OF PIPE

ABBREVIATION LEGEND

AFF	ABOVE FINISH FLOOR	IFW	INSIDE FACE OF WALL
AL VA	ALARM VALVE	ITV	INSPECTORS TEST VALVE
ASR	AUTOMATIC SPRINKLER RISER	KV	KEY VALVE
ATR	ALL THREAD ROD	LH	LIGHT HAZARD
BASR	BOTTOM AUTOMATIC SPRINKLER RISER	MIN.	MINIMUM
BB	BOTTOM OF BEAM	PE	PLAIN END
BD	BOTTOM OF DECK	PEN	PENDENT
BJ	BOTTOM OF JOIST	POC	POINT OF CONNECTION
BFD	BACKFLOW DEVICE	PRV	PRESSURE RELIEF VALVE
BFV	BUTTERFLY VALVE	PVC	POLYVINYL CHLORIDE PIPE
BTS	BELOW TOP OF STEEL	OFW	OUTSIDE FACE OF WALL
CIP	CAST IRON PIPE	OH	OVERHEAD
CL	CENTERLINE	OH1	ORDINARY HAZARD GROUP 1
COJ	CUT ON JOB	OH2	ORDINARY HAZARD GROUP 2
CPLG	COUPLING	OS&Y	OUTSIDE SCREW & YOKE VALVE
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE	QR	QUICK RESPONSE
CTF	CUT TO FIT	RES	RESIDENTIAL
CV	CHECK VALVE	RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	RPZA	REDUCED PRESSURE ZONE ASSEMBLY
DCVA	DOUBLE CHECK VALVE ASSEMBLY	SBB	SIDE BEAM BRACKET
DIP	DUCTILE IRON PIPE	SCH	SCHEDULE
(E)	EXISTING	SLP	SLIP
(EX)	EXISTING	SS	STAINLESS STEEL
EH1	EXTRA HAZARD GROUP 1	SSP	STANDARD SPRAY PENDENT
EH2	EXTRA HAZARD GROUP 2	SSU	STANDARD SPRAY UPRIGHT
EQ	EQUAL	STD	STANDARD
EQB	EARTHQUAKE BRACE	T	THREAD
ESC	ESCUTCHEON	TASR	TOP AUTOMATIC SPRINKLER RISER
EX	EXISTING	TBC	TOP BEAM CLAMP
FDC	FIRE DEPARTMENT CONNECTION	THD	THREADED
F	FLANGE	TS	TAMPER SWITCH
FS	FLOW SWITCH	TYP	TYPICAL
FW	FIRE WATER LINE	UG	UNDERGROUND
G	GROOVE	UP	UPRIGHT
GRC	GROOVED REDUCER COUPLING	VA	VALVE
GRV	GROOVE	VIF	VERIFY IN FIELD
GV	GATE VALVE	W/	WITH
HSW	HORIZONTAL SIDEWALL	W/O	WITHOUT



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

21-VCCCD-005- VENTURA COLLEGE DIESEL SHOP

COMMISSIONED ARCHITECT

AMADOR WHITTLE ARCHITECTS, INC.
28328 AGOURA ROAD, SUITE 203
AGOURA HILLS, CA 91301
(805) 530-3938 , (618) 874-0071

CONSULTANT

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FIRE PROTECTION ENGINEERING
619 MEZ ST. SUITE 4
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(805) 650-2511 | WWW.SCHRAMPE.COM

STAMPS/SEALS

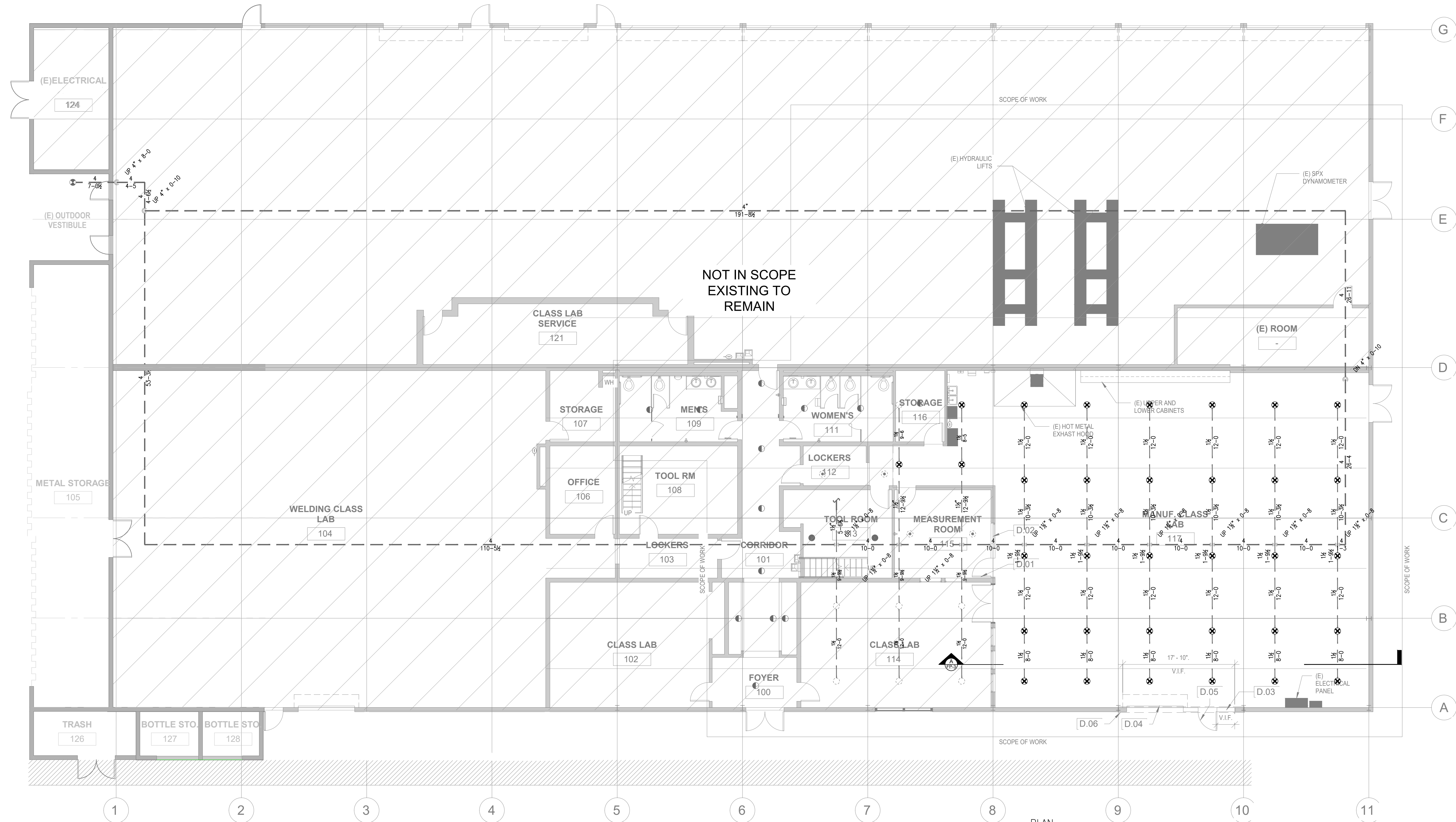
DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

GENERAL NOTES & SITE PLAN

PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: DD CHECKED: JS
SHEET NUMBER:
FP001
DATE: 02/25/2022 SHEET: ____ OF ____

SYMBOL	SPRINKLER DESCRIPTION	K-FACTOR	TEMP.	FINISH
⊗	(E) STANDARD-RESPONSE, SSU SPRINKLER TO BE REMOVED	5.6	200°F	BRASS
○	(E) STANDARD-RESPONSE, SSU SPRINKLER	5.6	200°F	BRASS
⊙	(E) STANDARD-RESPONSE, SSP SPRINKLER	5.6	155°F	WHITE
●	(E) STANDARD-RESPONSE, SSP SPRINKLER W/ 401 TYPE ESCUTCHEON	5.6	155°F	WHITE
⦿	(E) QUICK-RESPONSE, SSP SPRINKLER	5.6	155°F	WHITE



FIRE SPRINKLER DEMO PLAN
SCALE: 1/8" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE
**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT

**AMADOR WHITTLE
ARCHITECTS, INC.**
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STAMPS/SEALS

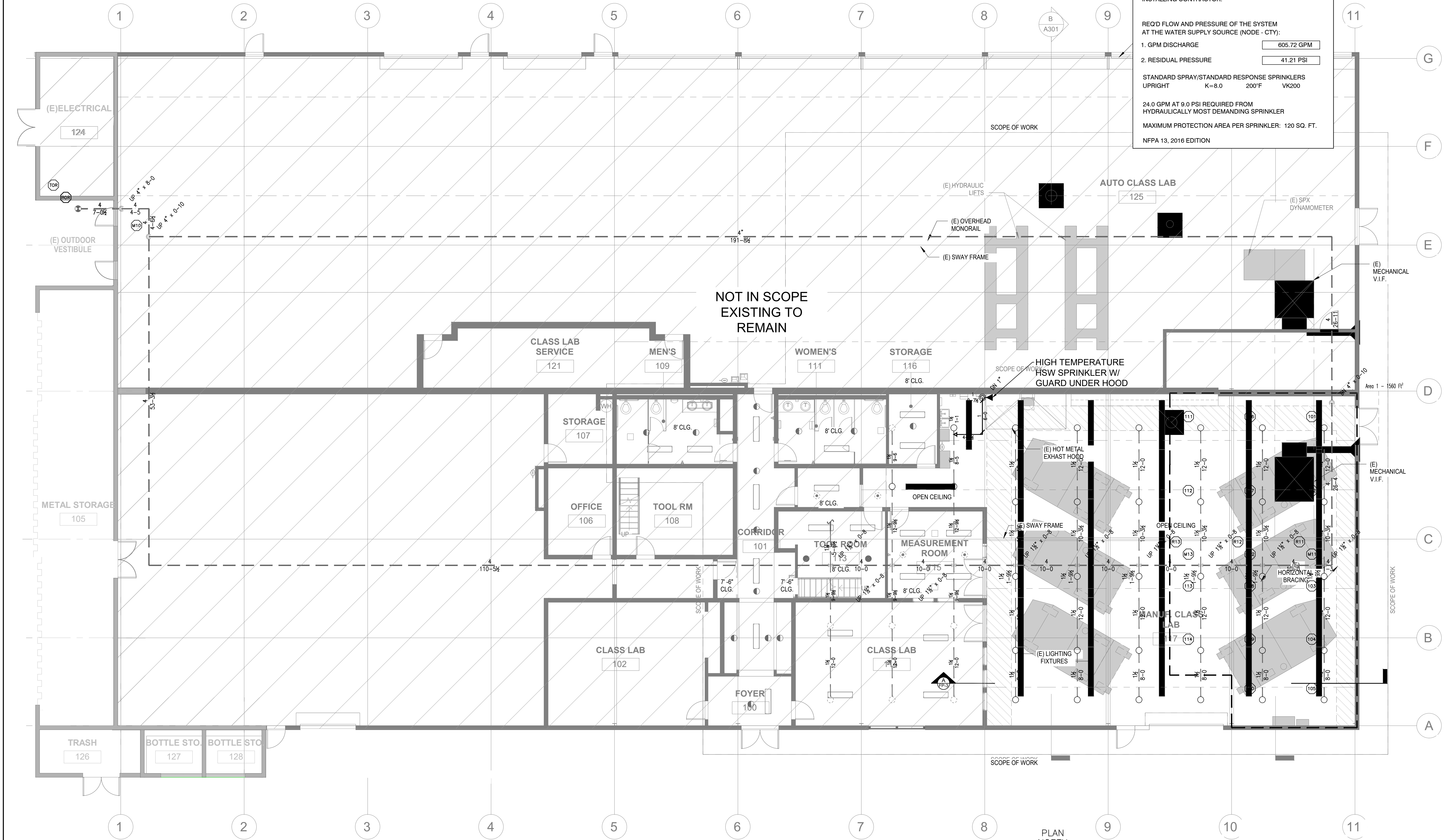
DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:
**FIRE SPRINKLER
DEMO PLAN**

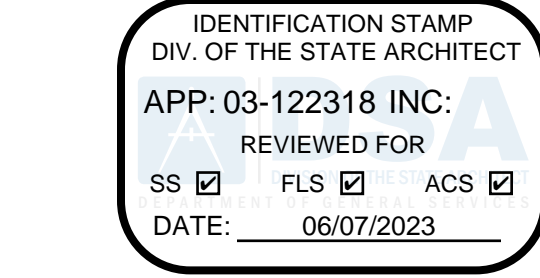
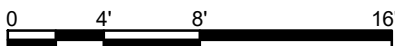
PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: DD CHECKED: JS
SHEET NUMBER:
FP100
DATE: 02/25/2022 SHEET: ____ OF ____

SYMBOL	SPRINKLER DESCRIPTION	MFG.	MODEL	K-FACTOR	TEMP.	FINISH	SIN	QUANTITY
○	STANDARD-RESPONSE, SSU SPRINKLER (RETROFIT LARGE ORIFICE WITH 1/2" THREAD)	VIKING	MICROMATIC	8.0	200°F	BRASS	VK200	33
◄	STANDARD-RESPONSE, HSW SPRINKLER WITH GUARD	VIKING	MICROMATIC	5.6	286°F	BRASS	VK104	1
○	(E) STANDARD-RESPONSE, SSU SPRINKLER	-	-	5.6	200°F	BRASS	-	-
○	(E) STANDARD-RESPONSE, SSP SPRINKLER	-	-	5.6	155°F	WHITE	-	-
●	(E) STANDARD-RESPONSE, SSP SPRINKLER W/ 401 TYPE ESCUTCHEON	-	-	5.6	155°F	WHITE	-	-
◐	(E) QUICK-RESPONSE, SSP SPRINKLER	-	-	5.6	155°F	WHITE	-	-
PROVIDE HEAD CABINET & WRENCH(ES) AS REQUIRED								TOTAL COUNT (NEW) = 34

HYDRAULIC	
THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM.	
LOCATION	AREA 1 - MANUF CLASS LAB
NO. OF SPRINKLERS	14
BASIS OF DESIGN	(DESIGN/AREA METHOD)
1. DENSITY	0.20 GPM/SQ. FT.
2. DESIGNED AREA OF DISCHARGE	1,560 GPM
OCCUPANCY CLASSIFICATION	
ORDINARY HAZARD GROUP II	
REQ'D FLOW AND PRESSURE OF THE SYSTEM AT THE BASE OF THE RISER (NODE - BOR):	
1. GPM DISCHARGE	355.72 GPM
2. RESIDUAL PRESSURE	37.15 PSI
TOTAL COMBINED INSIDE AND OUTSIDE HOSE - 250 GPM	
INSTALLING CONTRACTOR:	
REQ'D FLOW AND PRESSURE OF THE SYSTEM AT THE WATER SUPPLY SOURCE (NODE - CTY):	
1. GPM DISCHARGE	605.72 GPM
2. RESIDUAL PRESSURE	41.21 PSI
STANDARD SPRAY/STANDARD RESPONSE SPRINKLERS UPRIGHT K=8.0 200°F VK200	
24.0 GPM AT 9.0 PSI REQUIRED FROM HYDRAULICALLY MOST DEMANDING SPRINKLER	
MAXIMUM PROTECTION AREA PER SPRINKLER: 120 SQ. FT.	
NFPA 13, 2016 EDITION	



FIRE SPRINKLER PLAN
SCALE: 1/8" = 1'-0"



PROJECT TITLE
**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT
**AMADOR WHITTLE
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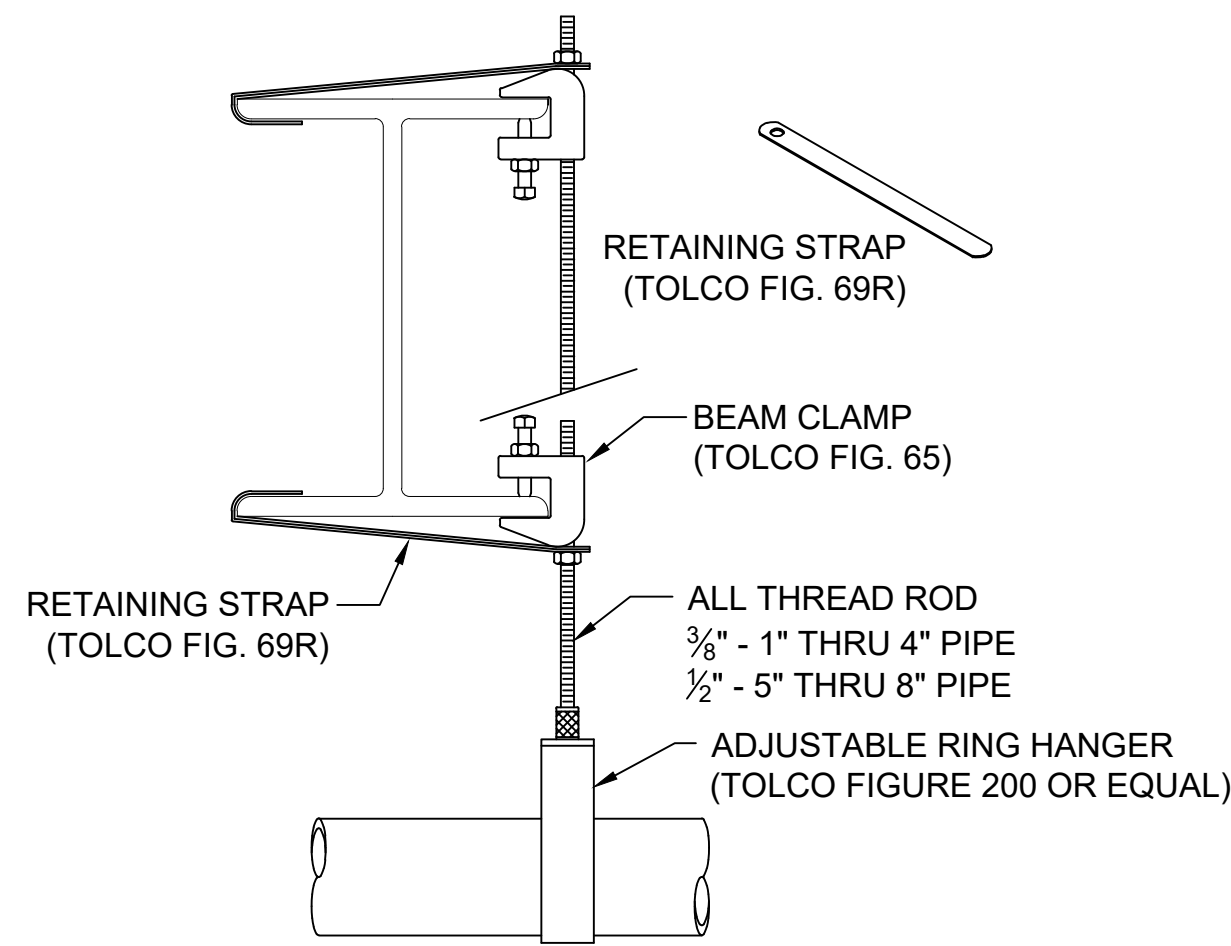
DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:
**FIRE SPRINKLER
PLAN**

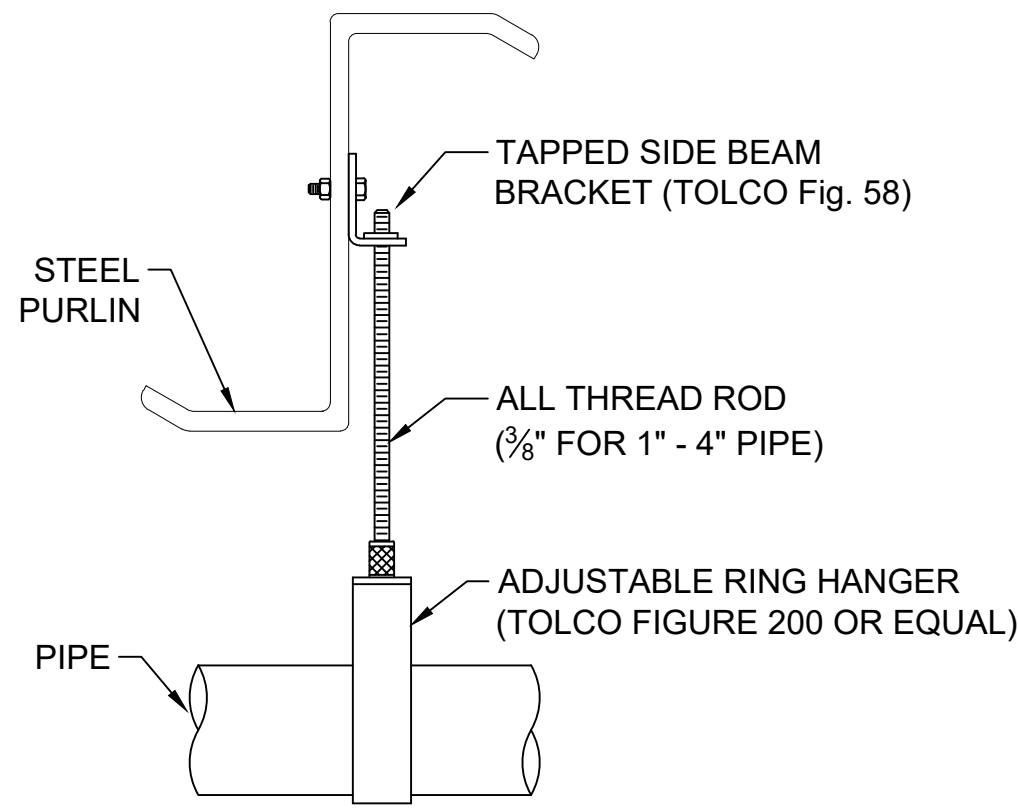
PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: DD CHECKED: JS

SHEET NUMBER:
FP101

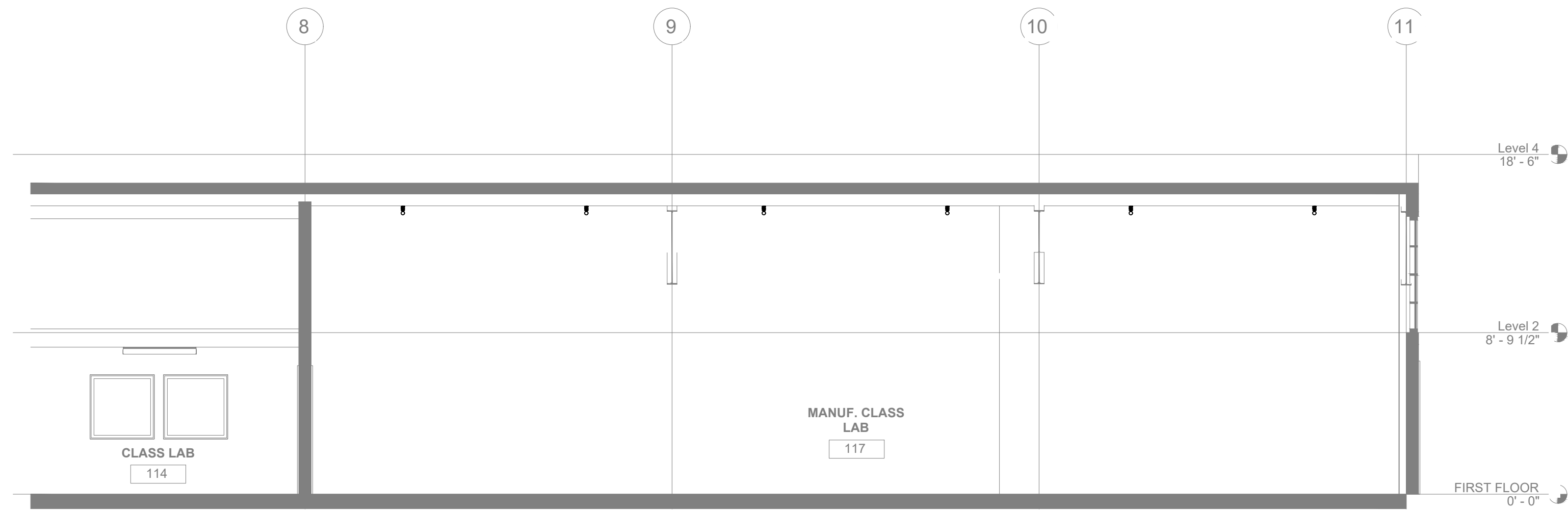
DATE: 02/25/2022 SHEET: OF



10 HANGER AT STEEL BEAM
NTS

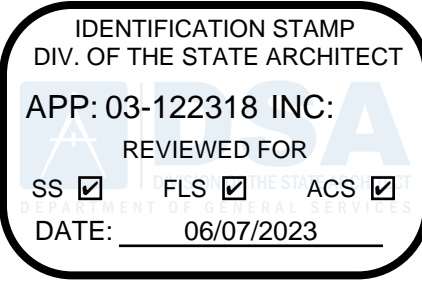


20 HANGER AT STEEL PURLIN
NTS



A BUILDING SECTION
FP-3 SCALE: 1/8\"/>

PIPE TYPE	MAXIMUM HANGER SPACING											
	NOMINAL PIPE SIZE (IN.)											
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
COPPER TUBE	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A

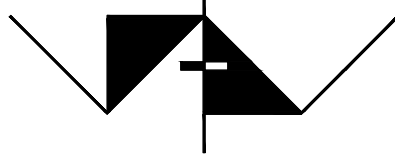


PROJECT TITLE

21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

SECTIONS & DETAILS

PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: DD CHECKED: JS

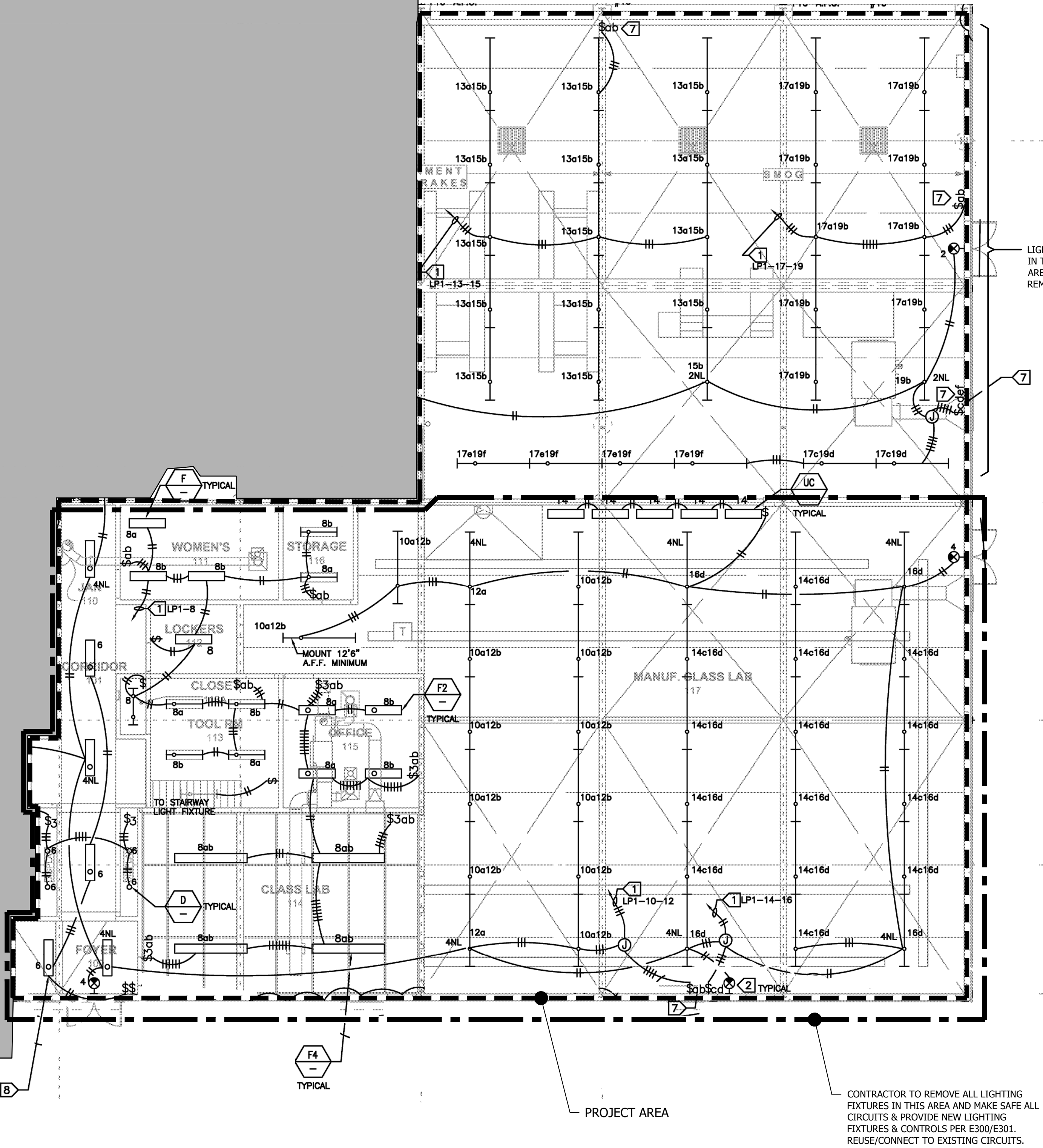
SHEET NUMBER:

FP200

DATE: 02/25/2022 SHEET: ____ OF ____

TIME: 12:16 pm
DATE: 25 July 2022
PATHNAME: G:\21359\EL\Sheets
DRAWING FILENAME: 21-359E130
DRAFTER: CM02

LIGHTING FIXTURE SCHEDULE						
TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER
D	○	32	ARCHITECTURAL DOWN LIGHT 8"	32WTR 3500K (1 LAMP)	RECESSED	LITHONIA #AFV32TRT6ARLD_MVOLT
E	⊕	15	VANDAL RESISTANT EXIT LED - LED CAST ALUMINUM	RED-LED	SURFACE	LITHONIA #LVSAB1R120/277UMELNELAWGEKE
F	▬	64	HIGH ABUSE SURFACE MOUNTED FLUORESCENT 1'x4'	F32 T8 3500K (2 LAMP)	SURFACE	LITHONIA #VSL232MVOLTTGE810IS
F1	⊥	64	4" HEAVY DUTY INDUSTRIAL STRIP WITH WIRE GUARD	F28T5 3500K (2 LAMP)	3/32" S.S. AIRCRAFT CABLE	LITHONIA #AFPST228TSMVOLTEBISWG
F2	▬	64	ARCHITECTURAL WRAP WITH HIGH IMPACT PRISMATIC LENS - 1'x4'	F32 T8 3500K (2 LAMP)	SURFACE	LITHONIA #AW232ARMVOLTEB10IS
F3	▬	96	ARCHITECTURAL WRAP WITH HIGH IMPACT PRISMATIC LENS - 1'x4'	F32 T8 3500K (3 LAMPS)	SURFACE	LITHONIA #AW332ARMVOLTEB10IS
F4	▬	192	8' ARCHITECTURAL PENDANT	F32 T8 3500K (6 LAMPS)	3/32" S.S. AIRCRAFT CABLE	LITHONIA #ENM4332RBMVOLTEB10DCTF2C200ACG
F5	⊥	112	8' TANDEM HEAVY DUTY INDUSTRIAL STRIP	F28 T5 3500K (4 LAMP)	3/32" S.S. AIRCRAFT CABLE	LITHONIA #TAFPST228MVOLTEBISWG
F7	⊥	28	4" HEAVY DUTY INDUSTRIAL STRIP WITH WIRE GUARD	F32 T8 3500K (1 LAMP)	SURFACE	LITHONIA #AFPST128MVOLTEBISWG
F8	□	34	1'x2' MED SECURITY FLUORESCENT W/ CLEAR TEMPERED GLASS LENS	F17 T8 3500K (2 LAMP)	SURFACE	MORLITE #SHM-14-217-8/A-F1-SSDL-277
F9	▬	64	1'x4' MED SECURITY FLUORESCENT W/ CLEAR TEMPERED GLASS LENS	F32 T8 3500K (2 LAMP)	SURFACE	MORLITE #SHM-14-232-8/A-F1-SSDL-277
S1	□	42	ARCHITECTURAL ROUND FLUORESCENT WITH POLYCARBONATE	42WTRT 3500K (2 LAMP)	SURFACE	LITHONIA #VGRSC42TRT_MVOLTDDBT
S2	⊕	84	ARCHITECTURAL ROUND FLUORESCENT WITH POLYCARBONATE LENS	42WTRT 3500K (2 LAMP)	SURFACE	LITHONIA #VGR2C2/42TRTMVOLTDDBTPC
UC	▬		ALL PURPOSE UNDER CABINET LIGHT	F28T8 3500K (1 LAMP)	WALL	LITHONIA #ZUC225ARMVOLTEBIS
S3	⊥	150	ARCHITECTURAL WALL MOUNTED FLOOD	150WWH (1 LAMP)	SURFACE	LITHONIA #WFL150MBPTBPCLC900DB



SHEET NOTES:

- SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
- DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
- PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
- MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
- DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
- EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND

- CONTROLS), CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
- SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
 - SCHEDULE ALL WORK AND OUTAGES WITH TENANTS AND OWNERS WRITTEN APPROVAL.
 - CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

KEY NOTES

- EXISTING HOMERUN TO POWERLINK LIGHTING CONTROL PANELBOARD "LP1".
- EXISTING WIRE GUARD ON ALL EXIT SIGNS IN LAB AREAS.
- EXISTING FIXTURES TO REMAIN. CONNECT EXISTING FIXTURES INTO NEW BUILDING DISTRIBUTION SYSTEM VIA LIGHTING CONTROL. PROVIDE NEW BALLAST, CLEAN, AND RELAMP.
- EXISTING TO REMAIN, RECONNECT
- NOT USED.
- NOT USED.
- SWITCH BOX WITH PERMANENTLY INSTALLED BARRIERS 404.8(B).
- EXISTING FIXTURE 12'-0" A.F.F. TO BOTTOM OF FIXTURE. VERIFY AND PROVIDE WITH SWIVEL STEM HANGER. LITHONIA FIXTURE OPTION #HDSQ. PROVIDE STEM LENGTH AS NECESSARY TO PROVIDE FIXTURE HEIGHT. VERIFY MOUNTING HEIGHT PER ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.

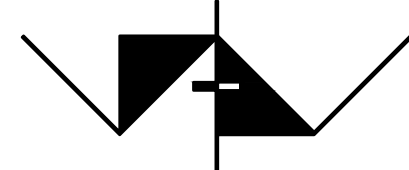
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

21-VCCCD-005-VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



AMADOR WHITTLE
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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

BUILDING S
LIGHTING
DEMOLITION
PLAN

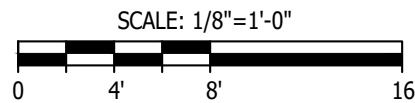
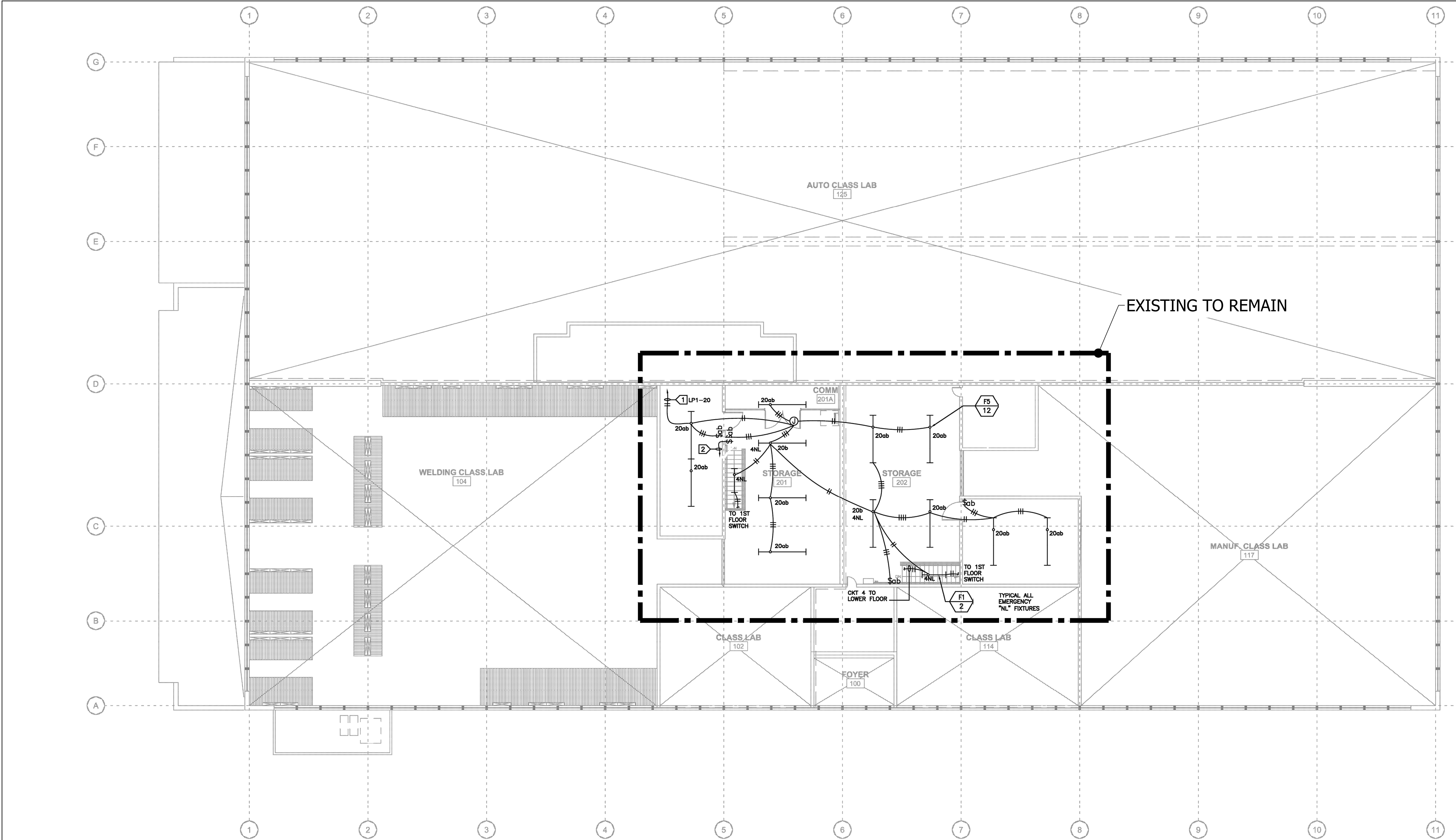
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DRAWN: LK/DS CHECKED: KL

SHEET NUMBER:

E130

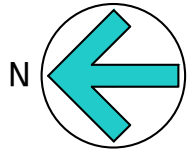
DATE: 07/25/2022 SHEET: OF

DATE: 25 July 2022
TIME: 12:16 pm
PATHNAME: G:\21359\EL\Sheets
DRAWING FILENAME: 21-359E131
DRAFTER: CM02



BUILDING S MEZZANINE DEMOLITION LIGHTING PLAN
SCALE: 1/8"=1'-0"

1
E131



KEY NOTES

- ① HOMERUN VIA POWERLINK LIGHTING CONTROL PANEL "LP1".
② MEZZANINE LEVEL AUTOMATIC LIGHTING CONTROL SYSTEM OVERRIDE SWITCH: 1/2" & 6#14 & 1#14 GND HOMERUN TO POWERLINK PANEL "LP1".

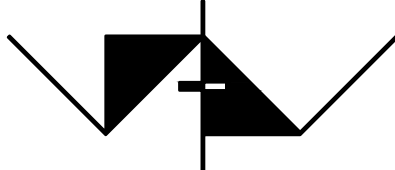
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

**21-VCCCD-005-VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

**BUILDING S
MEZZANINE
DEMOLITION
LIGHTING PLAN**

PROJECT NO. 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: LK/DS CHECKED: KL

SHEET NUMBER:

E131

DATE: 07/25/2022 SHEET: ____ OF ____



- ## KEY NOTES

- # BUILDING S POWER DEMOLITION PLAN

SCALE: 1/8"=1'-0"

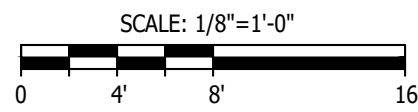
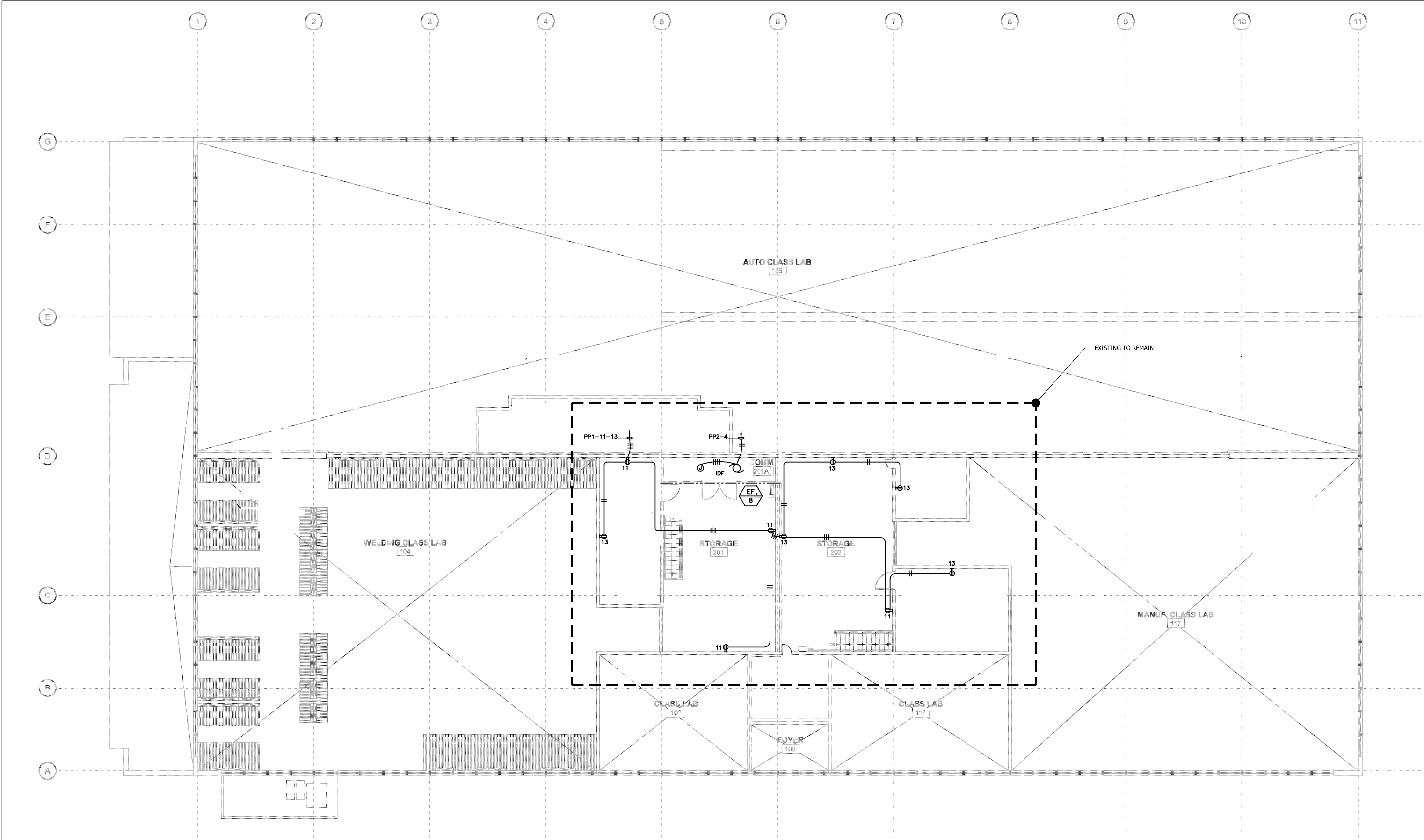
DSA V3 SUBMITTAL 04/19/2023

SHEET TITLE

DATE: 07/25/2022

SHEET:	OF
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TIME: 12:17 pm
DATE: 25 July 2022
PATHNAME: G:\21\359\EL\Sheets
DRAWING FILENAME: 21-359E141
DRAFTER: CM02



BUILDING S MEZZANINE POWER EXISTING PLAN

SCALE: 1/8"=1'-0"

1
- E141



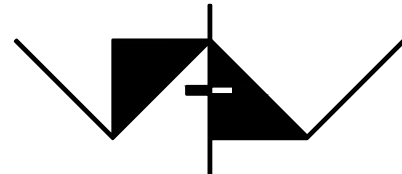
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

**21-VCCCD-005-VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
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STAMPS/SEALS



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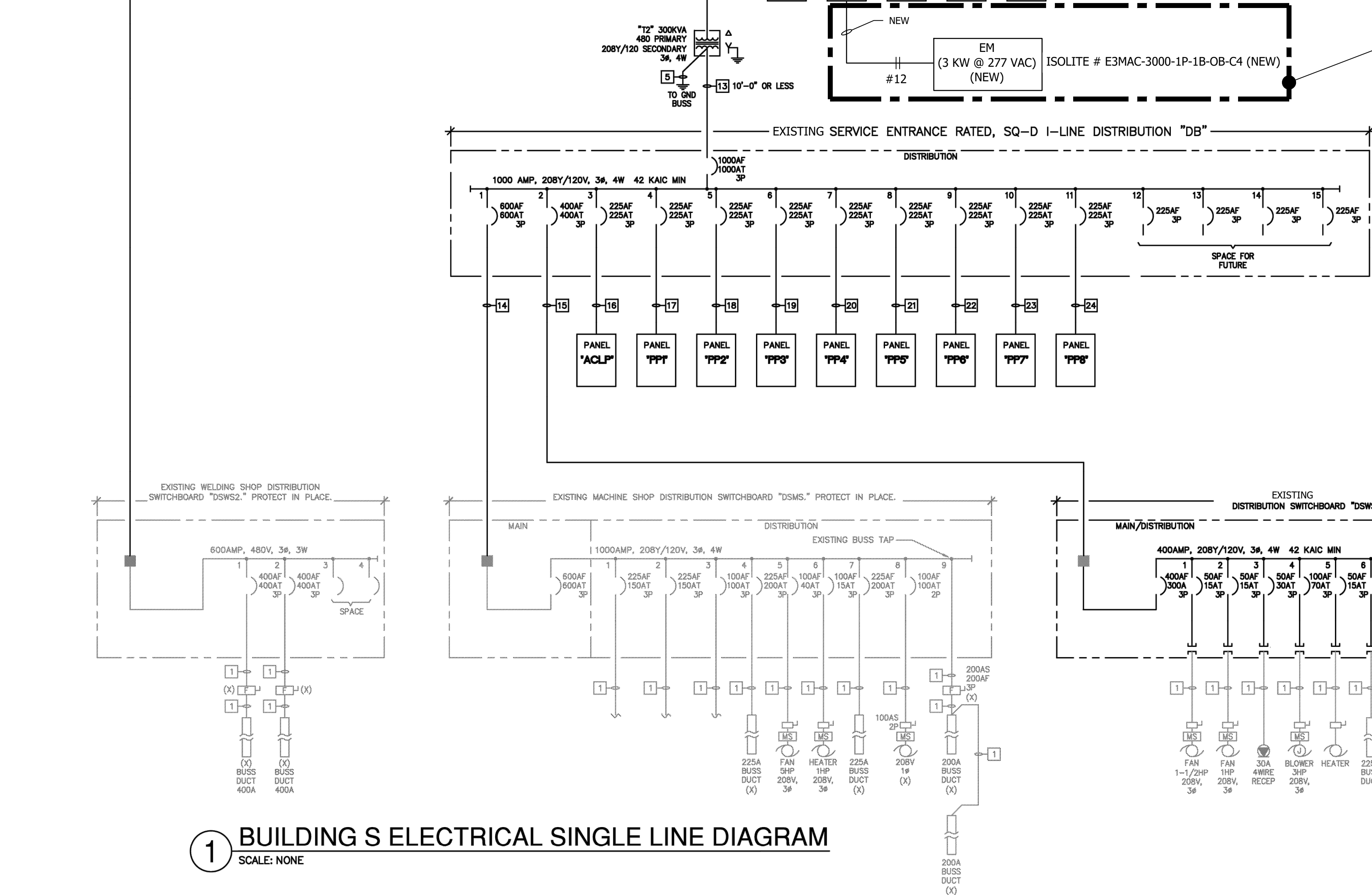
**BUILDING S
MEZZANINE
POWER EXISTING
PLAN**

PROJECT NO. 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: LK/DS CHECKED: KL

SHEET NUMBER:

E141

DATE: 07/25/2022 SHEET: ____ OF ____



1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER FOR ANY TRENCHING.
5. NOT USED.
6. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
7. NOT USED.
8. NOT USED.
9. MINIMUM CONDUIT BURIAL DEPTH IS 24". 36" MINIMUM BELOW STREETS & PARKING LOTS FOR 0-600 VOLT SYSTEMS.
10. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
11. 1" CONDUIT MINIMUM UNDERGROUND.
12. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
13. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

CONNECTED LOAD SUMMARY		
DESCRIPTION	"DB" LOAD	"MSB" LOAD
"DSWS 2"		50 KVA
PANEL "ACHP"		72 KVA
PANEL "LP1"		44 KVA
PANEL "HP1"		168 KVA
PANEL "HP2"		202 KVA
PANEL "HP3"		219 KVA
"DSMS"	25 KVA	
"DSWS 1"	25 KVA	
PANEL "ACLP"	47 KVA	
PANEL "PP1"	60 KVA	
PANEL "PP2"	6 KVA	
PANEL "PP3"	4 KVA	
PANEL "PP4"	19 KVA	
PANEL "PP5"	18 KVA	
PANEL "PP6"	19 KVA	
PANEL "PP7"	5 KVA	
PANEL "PP8"	15 KVA	
TOTAL ON "DB" (IN AMPS AT 208V, 3ø)	243 KVA (675A)	
TOTAL CONNECTED LOAD ON MSB (AMPS @ 480V 3ø) =		998 KVA (1200A)

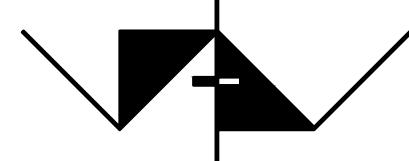
NEW SEE

PROJECT TITLE

**21-VCCCD-005- VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA
CA 93003

COMMISSIONED ARCHITECT



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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE

BUILDING S ELECTRICAL SINGLE LINE DIAGRAM

PROJECT	21 VCCCD 005	PROJECT	WIA
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DRAWN:

ARCH:	
CHECKED:	

SHEET NUMBER

E200

DATE: 07/25/2022

SHEET:	OF
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TIME: 12:17 pm
DATE: 25 July 2022
PATHNAME: G:\21359\EL\Sheets
DRAWING FILENAME: 21-359E201
DRAFTER: CM02

EXISTING SQ-D POWERLINK LIGHTING PANEL																															
PANEL NUMBER <u>LP1</u> VOLTAGE <u>277/480</u> PHASE <u>3</u> WIRE <u>4</u>												■ NEMA 1		■ COPPER BUSS																	
SOURCE <u>MSB</u> A.I.C. <u>42000</u> SERIES RATED												■ MAIN LUGS ONLY																			
PANEL LOCATION <u>ELECTRICAL ROOM (SEE DETAIL 1 E600)</u> BUS AMPERE RATING <u>255</u>												■ SURFACE MOUNTING																			
L C L	M C P	R C T	L I N E	CIRCUIT DESCRIPTION	LOAD(VA)			BRKR			PHASE A B C	BRKR			LOAD(VA)			CIRCUIT DESCRIPTION	M C P	R C T	L I N E	L C L									
					A	B	C	POLE	AMP	CKT		AMP	POLE	A	B	C															
L			27	AUTO SHOP LTG	1728			1	20	1	+	2	20	1	1000			EMERGENCY EXIT LTG			17	L									
L			24		1536					3	+	4				1000		EMERGENCY EXIT LTG			21	L									
L			30				1920			5	+	6				1920		100-102, 106-109 LTG			26	L									
L			26		1664					7	+	8			1696			111-116 LTG			20	L									
L			20			1280				9	+	10				1024		MANUFACTURING SHOP			16	L									
L			19				1152			11	+	12				1152					18	L									
L			16		1280					13	+	14			960						15	L									
L			15			1216				15	+	16				1152					18	L									
L			18				1024			17	+	18				2000		EXTERIOR BLDG LTG			10	L									
L			22		960					19	+	20			1536			MEZZANINE LTG			12	L									
L			18	WELDING SHOP LTG		1152				21	+	22			1750			EXTERIOR BLDG LTG			10	L									
L			22				1408			23	+	24				1000		EXTERIOR BLDG LTG			15	L									
L			18		1154					25	+	26			2000			EF-1													
L			22			1472				27	+	28			2000			EF-2													
										29	+	30			2000																
										31	+	32			3000																
										33	+	34			3000																
				EF3			2000			35	+	36			3000			EXIT			3	L									
							2000			37	+	38			20	1	30	SHOP LITES			16										
								3		39	+	40					1354														
				INVERTER EM						41	+	42					612	RR/STORAGE/TOOL RM			45	L									
TOTALS					8786	8656	9904								10222	11280	11684	TOTALS													
L.C.L. VOLT AMPS:					8783	PHASE A		2994	PHASE B		2895	PHASE C		.	125% - (L) = LCL																
TOTAL VOLT AMPS:					60532	PHASE A		19008	PHASE B		19936	PHASE C		21588	(L) + LCL = TOTAL LOAD																
TOTAL AMPS:					73	PHASE A		69	PHASE B		72	PHASE C		78																	
● PROVIDE WITH A LOCK-ON DEVICE																															

NEW BREAKER AND LOAD

NEW BREAKER AND LOAD

EXISTING

PANEL NUMBER <u>PP3</u> VOLTAGE <u>120/208</u> PHASE <u>3</u> WIRE <u>4</u>												■ NEMA 1		■ COPPER BUSS																	
SOURCE <u>DB</u> A.I.C. <u>42000</u> SERIES RATED												■ MAIN LUGS ONLY																			
PANEL LOCATION <u>MANUFACTURING LAB</u> BUS AMPERE RATING <u>225</u>												■ SURFACE MOUNTING																			
L C L	M C P	R C T	L I N E	CIRCUIT DESCRIPTION	LOAD(VA)			BRKR			PHASE A B C	BRKR			LOAD(VA)			CIRCUIT DESCRIPTION	M C P	R C T	L I N E	L C L									
					A	B	C	POLE	AMP	CKT		AMP	POLE		A	B	C														
				SPARE FOR FUTURE	.			1	20	1	+	2	20	1	.			MANUF LAB OUTLETS			2										
					.					3	+	4			.						2										
										5	+	6			.						2										
					.					7	+	8			.						4										
					.					9	+	10			.						4										
										11	+	12			.						4										
					.					13	+	14			.			SPARE FOR FUTURE													
					.					15	+	16			.																
					.					17	+	18			.																
					.					19	+	20			.																
					.					21	+	22			.																
					.					23	+	24			.																
					.					25	+	26			.																
					.					27	+	28			.																
					.					29	+	30			.																
	2			SHOP REEL A	500					31	+	32			.																
	2			SHOP REEL B		500				33	+	34			.																
	2			SHOP REEL C			500			35	+	36			.																
	2			SHOP REEL D	500					37	+	38			.																
	2			SHOP REEL E		500				39	+	40			20	1	540	ROOF RECEIPT			3										
	2			SHOP REEL F			500			41	+	42			15	1	100	EF CONTROL PANEL			3										
TOTALS					1000	1000	1000								1080	1620	1180	TOTALS													
L.C.L. VOLT AMPS:					.	PHASE A		.	PHASE B		.	PHASE C		.	125% - (L) = LCL																
TOTAL VOLT AMPS:					6880	PHASE A		2180	PHASE B		2620	PHASE C		2080	(L) + LCL = TOTAL LOAD																
TOTAL AMPS:					19	PHASE A		18	PHASE B		22	PHASE C		17																	

NEW BREAKER AND LOAD

NEW BREAKER AND LOAD

NEW - INTERNAL TO ISOLITE UNIT																															
PANEL NUMBER <u>EM</u> VOLTAGE <u>277</u> PHASE <u>1</u> WIRE <u>3</u>												<input checked="" type="checkbox"/> NEMA 1		<input checked="" type="checkbox"/> COPPER BUSS																	
SOURCE <u>ISOLITE</u> A.I.C. <u>14,000</u>												<input checked="" type="checkbox"/> MAIN CIRCUIT BREAKER		<u>30A</u>																	
PANEL LOCATION <u>SHOP AREA</u> BUS AMPERE RATING <u>100</u>												<input checked="" type="checkbox"/> SURFACE MOUNTING																			
L C L	M C P	R C T	L I N E	CIRCUIT DESCRIPTION	LOAD(VA)			BRKR			PHASE A	BRKR			LOAD(VA)			CIRCUIT DESCRIPTION	M C P	R C T	L I N E	L C L									
					A			POLE	AMP	CKT		AMP	POLE		A																
L				RESTROOM LAB LITES	546			1	20	1	+	2	20	1	634			SHOP LITES				L									
L				EXIT SIGN	30					3	+	4			.																
				SPARE	.					5	+	6			.																
				↓	.					7	+	8	↓	↓	.			↓													
TOTALS					576										634			TOTALS													
L.C.L. VOLT AMPS: 310					PHASE A 310																										
TOTAL VOLT AMPS: 1520					PHASE A 1520																										
TOTAL AMPS: 5					PHASE A 5																										

TIME: 8:18 am

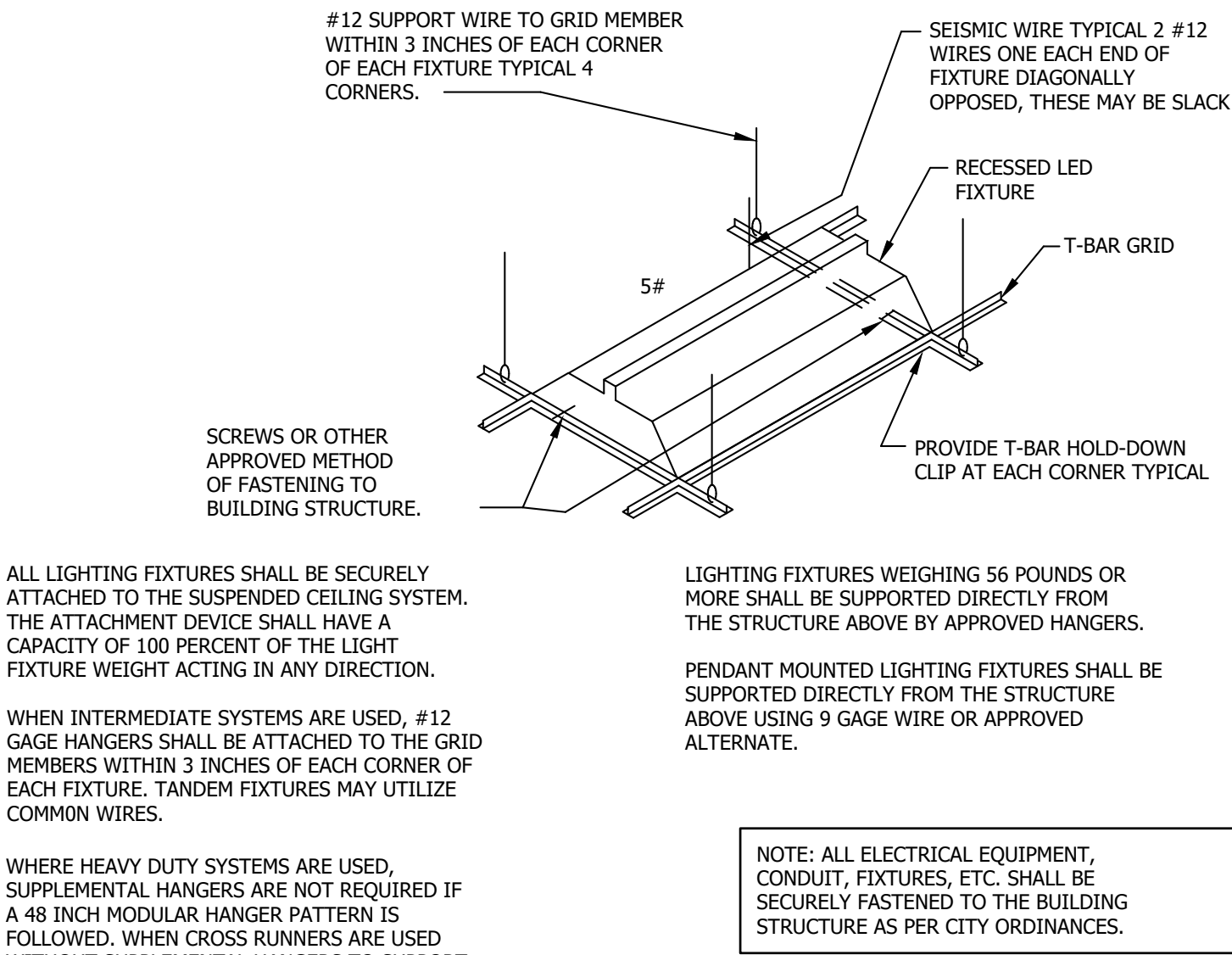
DATE: 12 January 2023

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DRAFTER: CM02

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Drawing Date: 12/19/2023
Author: CM02
Checked: CM02
Date: 12/19/2023



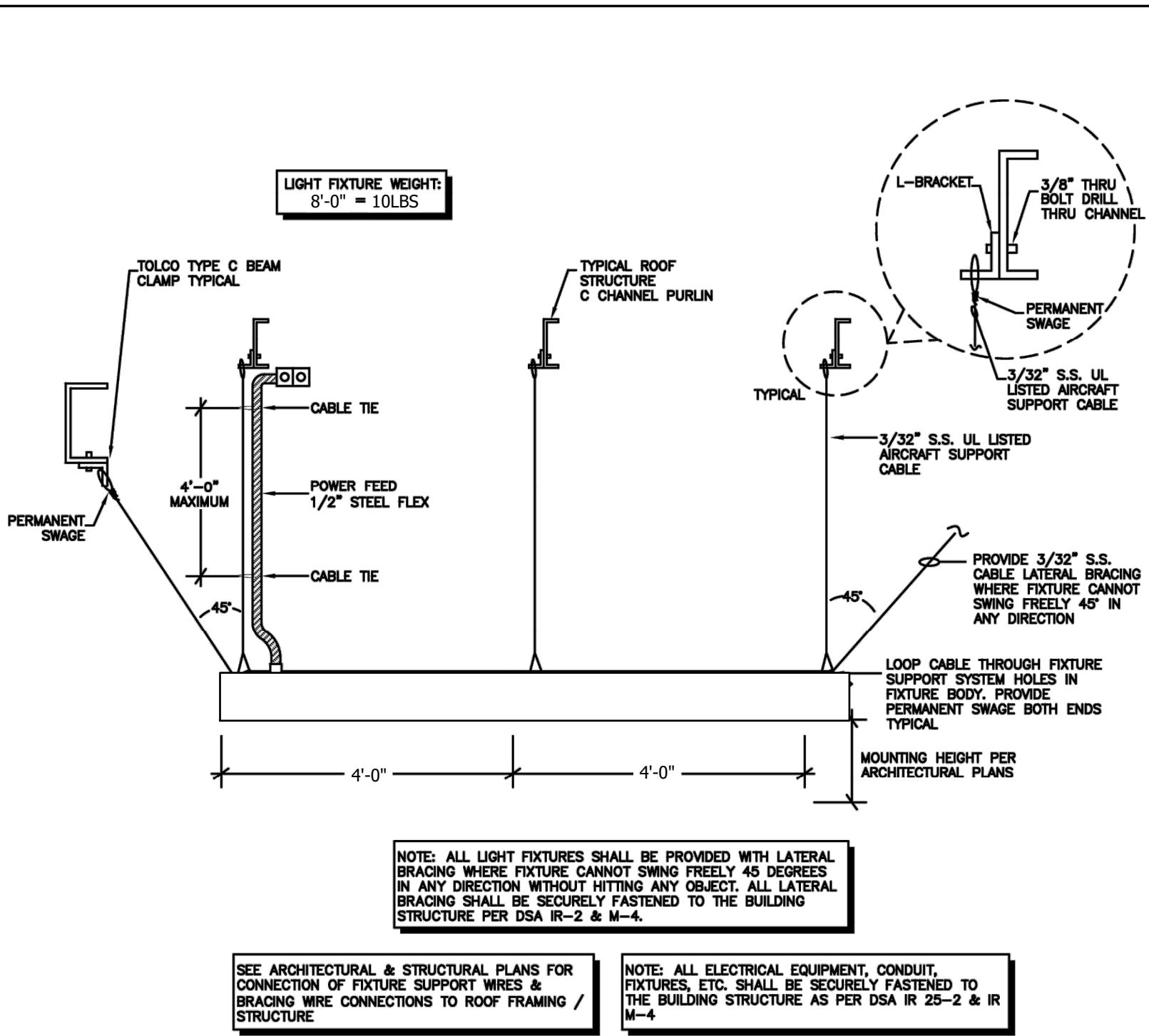
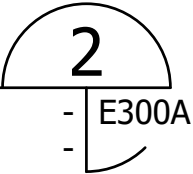
FIXTURE SCHEDULE NOTES:

- FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL BARRIER.
- CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING CONDITIONS AT NO EXTRA CHARGE TO THE OWNER.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
- SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION AND LIGHTING PLACEMENT.
- XX

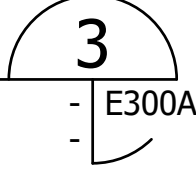
XX

 FIXTURE TYPE
XX QUANTITY

F1 & F5 MOUNTING
SCALE: NONE



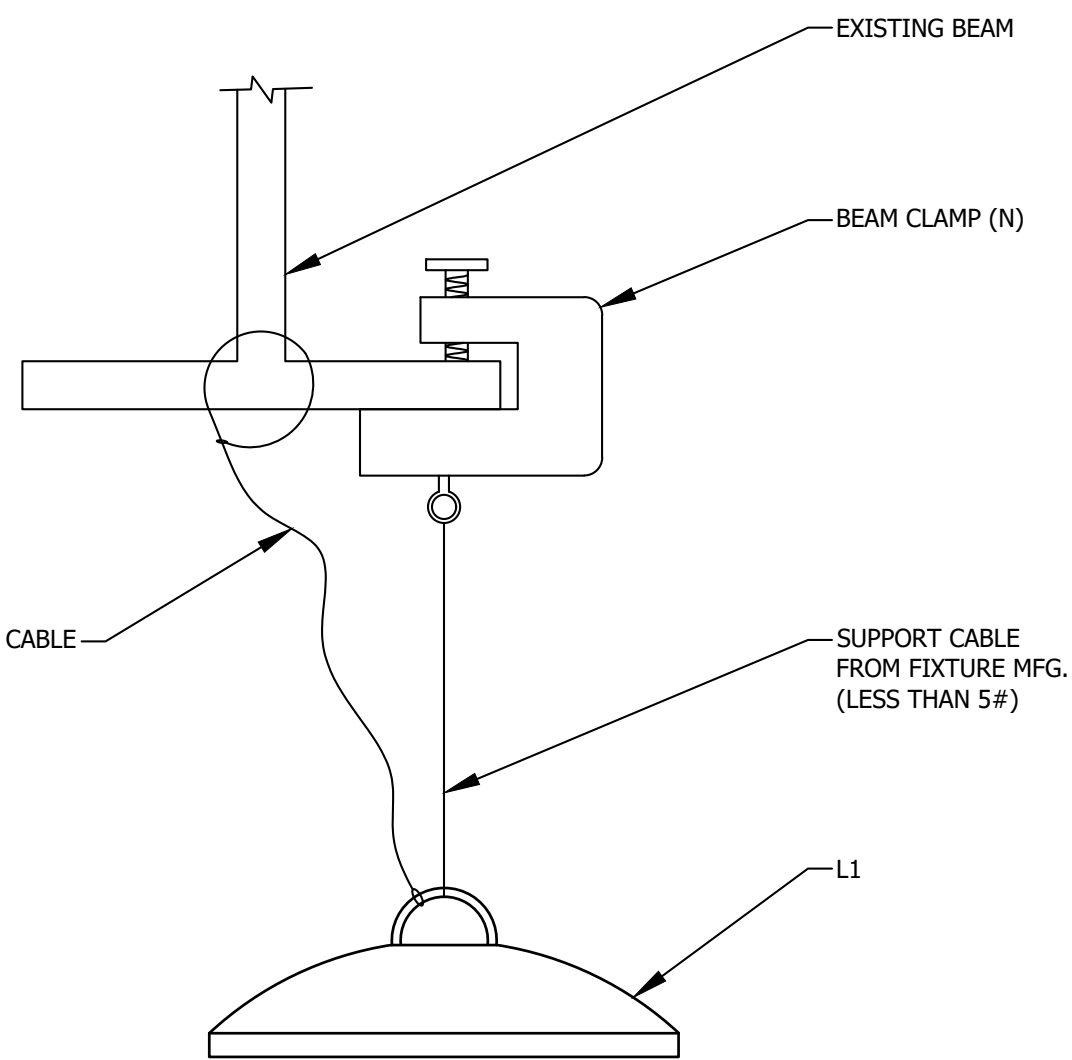
TYPICAL FIXTURE TYPE "F12" MOUNTING DETAIL
SCALE: NONE



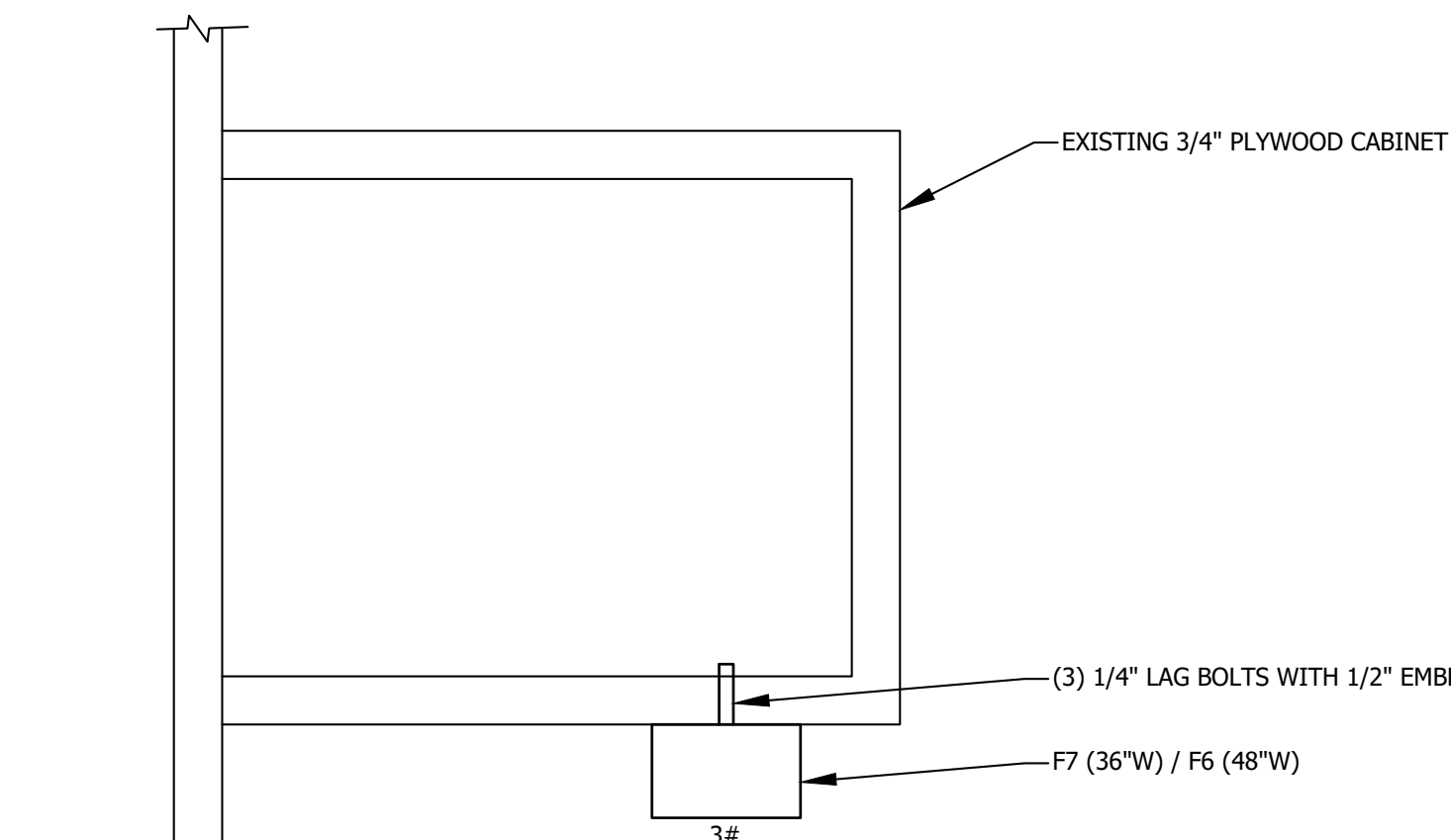
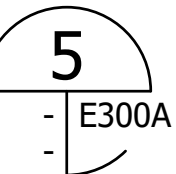
LIGHTING FIXTURE SCHEDULE (NEW)							WEIGHT
TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS
F1		36	2' X 4' LAY-IN DIRECT-INDIRECT W/ CENTER BASKET	LED	RECESSED	LITHONIA # 2VTL4- 40L-ADP-MVOLT-EZB-LP835-N80	SEE DETAIL 2 WEIGHT LESS THAN 5 POUNDS
F5		34	2' X 4' LAY-IN LED FLAT PANEL	LED	RECESSED	LITHONIA # EPANL 2X4 80CRI 3000LM 35K MINInLIGHT MVOLT	SEE DETAIL 2 WEIGHT LESS THAN 5 POUNDS
F6		34	1' X 4' SURFACE MOUNTED LED W/ PRISMATIC LENS	LED	RECESSED	LITHONIA # EPANL 1X4 80CRI 3000LM 35K MINInLIGHT MVOLT	WITH SURFACE MOUNT KIT WEIGHT LESS THAN 3 POUNDS, SEE DETAIL 4
F7		18	36" UNDER-COUNTER SURFACE MOUNTED LED COMPACT FIXTURE	LED	SURFACE	BRUCK 138540-LENGTH AS NOTED-35K-95-277-WH/BZ	ELECTRONIC 0-10V DIMMING/DMX WEIGHT LESS THAN 3 POUNDS, SEE DETAIL 4
F9		42	4' SURFACE MOUNTED LED UP & DOWN WALL SCONCE	LED	SURFACE	LITHONIA ZLIN-L48-5000LM-FST-35K-80CRI-WH-ZLANBGKT-nPP16D	WEIGHT LESS THAN 3 POUNDS, SEE DETAIL 4
F11		2	EXIT SIGN EDGE-LIT W/ 6" HIGH LETTERS	LED	SURFACE	LITHONIA # LRP-1-GC-120/277	ARROW AS REQUIRED PER PATH OF EGRESS, (WITH TWO SOURCES, NORMAL & EMERGENCY)
F12		52	PENDANT 4'-0"	LED	PENDANT	MARK PLLR101DLLP 4FT MSL8 80 CRI 35K 700 LMF 11000 LMF SCT DARK 120 WW5G ZT SCEP FLA/72A	SEE DETAIL 3 WEIGHT LESS THAN 5 POUNDS
L1		90	HIGH BAY	LED	6" PENDANT (CONDUIT)	SPEC GRADE HBF-90-35K-120-WT-PM3-VDIM-FL-80C	SEE DETAIL 5 WEIGHT LESS THAN 8 POUNDS

CONTROL SCHEDULE

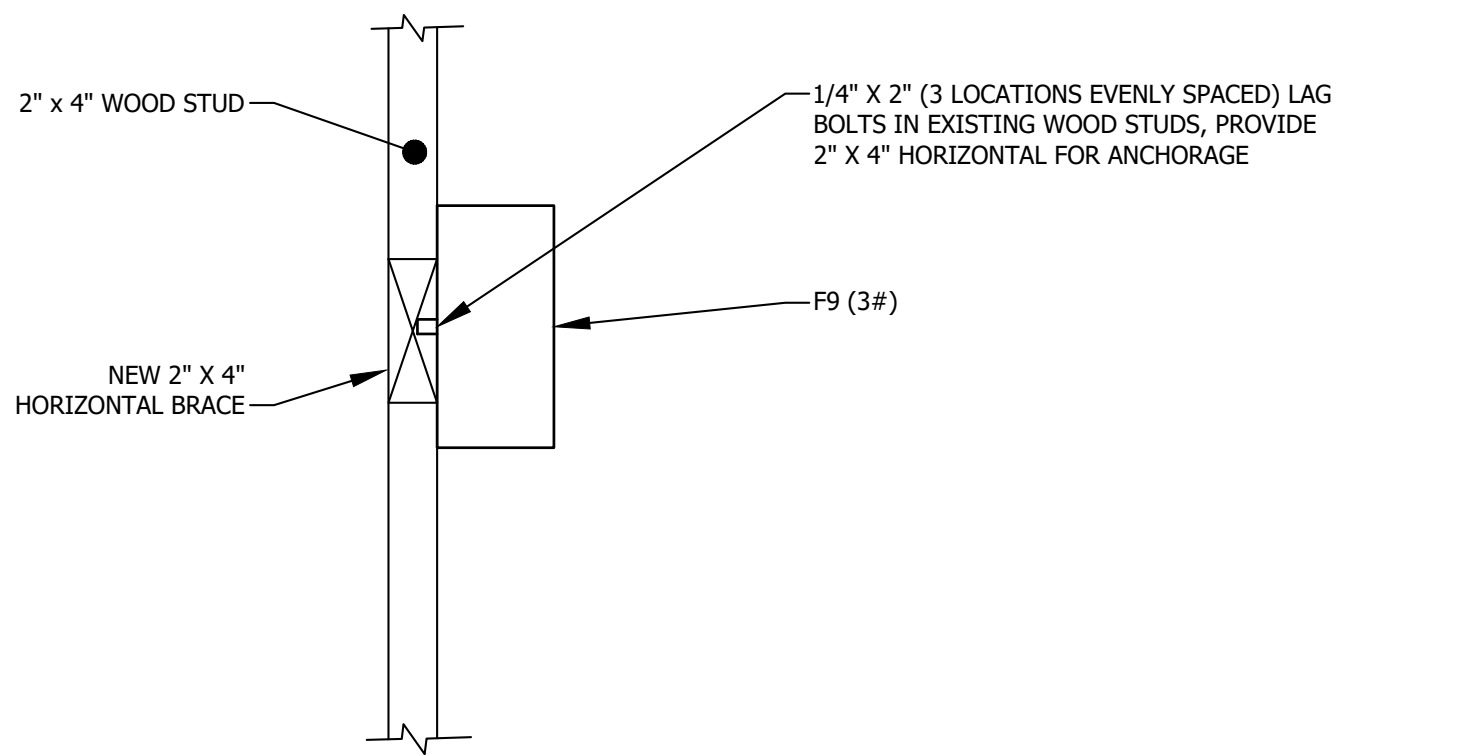
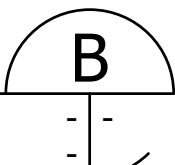
BG1	BG1 NBRG 8 KIT nLight Bridge, Kit	OS3	OS3 NCM 9 Low Voltage Ceiling Mount Sensor, Small Motion / Standard Range 360° lens
BG2	BG2 NBRG 8 KIT nLight Bridge, Kit	OS4	OS4 NCM 10 Low Voltage Ceiling Mount Sensor, Large Motion / Extended Range 360° lens
BG3	BG3 NBRG 8 KIT nLight Bridge, Kit	PC1	PC1 NCM ADCX Low Voltage Ceiling Mount Sensor, Photocontrol w/ Auto Dimming; no wires
BG4	BG4 NBRG 8 KIT nLight Bridge, Kit	PO1	PO1 NCM 9 ADCX Low Voltage Ceiling Mount Sensor, Small Motion / Standard Range 360° Lens, Photocontrol w/ Auto Dimming No Wires
BG5	BG5 NBRG 8 KIT nLight Bridge, Kit	PO2	PO2 NCM 10 ADCX Low Voltage Ceiling Mount Sensor, Large Motion / Extended Range 360° Lens, Photocontrol w/ Auto Dimming No Wires
BG6	BG6 NBRG 8 KIT nLight Bridge, Kit	SC1	SC1 NECY MVOLT ADR ENC GFXK nLight Eclipse, 24 VAC
BG7	BG7 NBRG 8 KIT nLight Bridge, Kit	SO1	SO1 NWSX PDT LV DX XX Wall Switch Sensor, Passive Dual Technology, Low Voltage, Raise/Lower Dimming Without Wires
BG8	BG8 NBRG 8 KIT nLight Bridge, Kit	SO2	SO2 WSX D XX Wall Switch Sensor, Occupancy Controlled Dimming
BG9	BG9 NBRG 8 KIT nLight Bridge, Kit	SW1	SW1 NP0DM DX XX Low voltage Push-Button Wallpod, Raise/Lower Dimming Without Wires
DE1	DE1 NPP16 D ER EFP Power/Relay Pack, Occupancy Controlled Dimming, UL924 Emergency Operation, External Fault Protection.	SW2	SW2 NP0DM 2P DX XX Low Voltage Push-Button Wallpod, 2-Pole, Raise/Lower Dimming Without Wires
DP1	DP1 NPP16 D EFP Power/Relay Pack, Occupancy Controlled Dimming, External Fault Protection.	SW4	SW4 NP0DM 4P DX XX Low Voltage Push-Button Wallpod, 4-Pole, Raise/Lower Dimming Without Wires
OS1	OS1 NCM PDT 9 Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Small Motion / Standard Range 360° Lens	PP1	PP1 WPP16 Power Pack For 120VAC and 277VAC Switching.
OS2	OS2 NCM PDT 10 Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Large Motion / Extended Range 360° Lens		



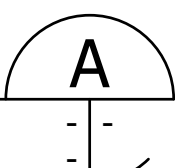
L1 MOUNTING DETAILS
SCALE: NONE



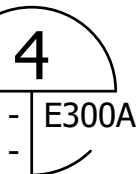
F6/F7 DETAIL
SCALE: NONE



F9 DETAIL
SCALE: NONE

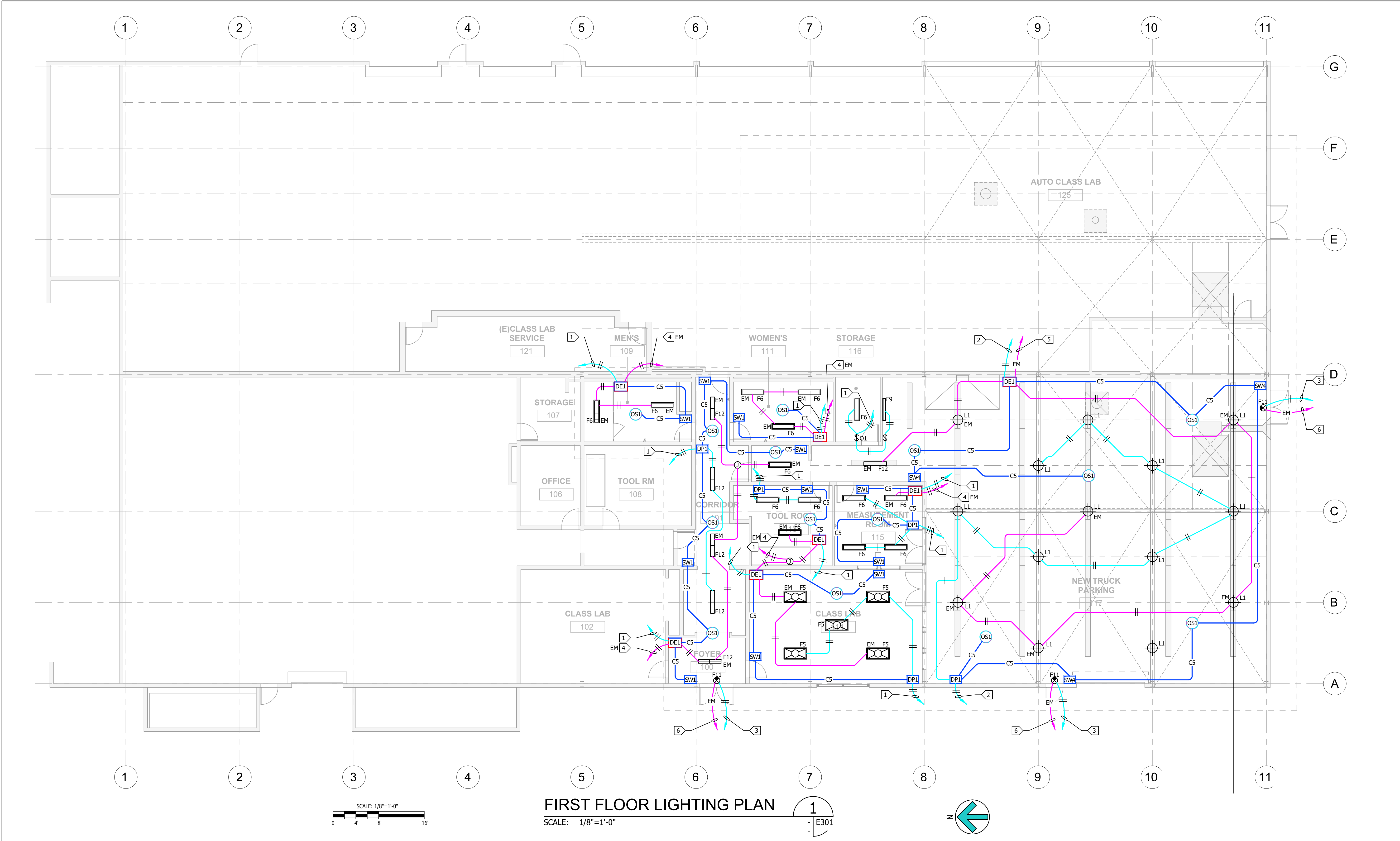


F6 / F7 & F9 MOUNTING DETAILS
SCALE: NONE



DATE: 25 July 2022
TIME: 12:17 pm
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DRAFTER: CM02

07/25/2022 11:59:53 AM
21-359E301.dwg
LUCI & ASSOCIATES, INC.
JULIAN J. LUCI, P.E.
ELECTRICAL ENGINEER
STATE OF CALIFORNIA
C-20348
JANUARY 31, 2022
RENEWAL
DATE



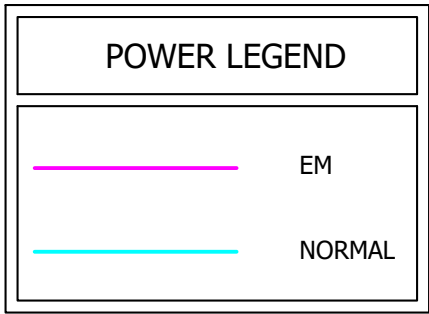
FIRST FLOOR LIGHTING PLAN

SCALE: 1/8"=1'-0"

1
- E301

KEY NOTES:

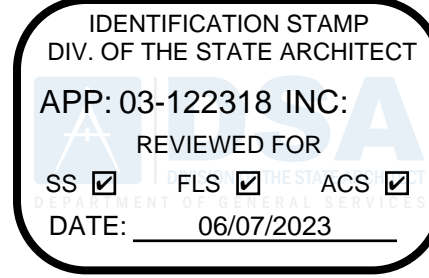
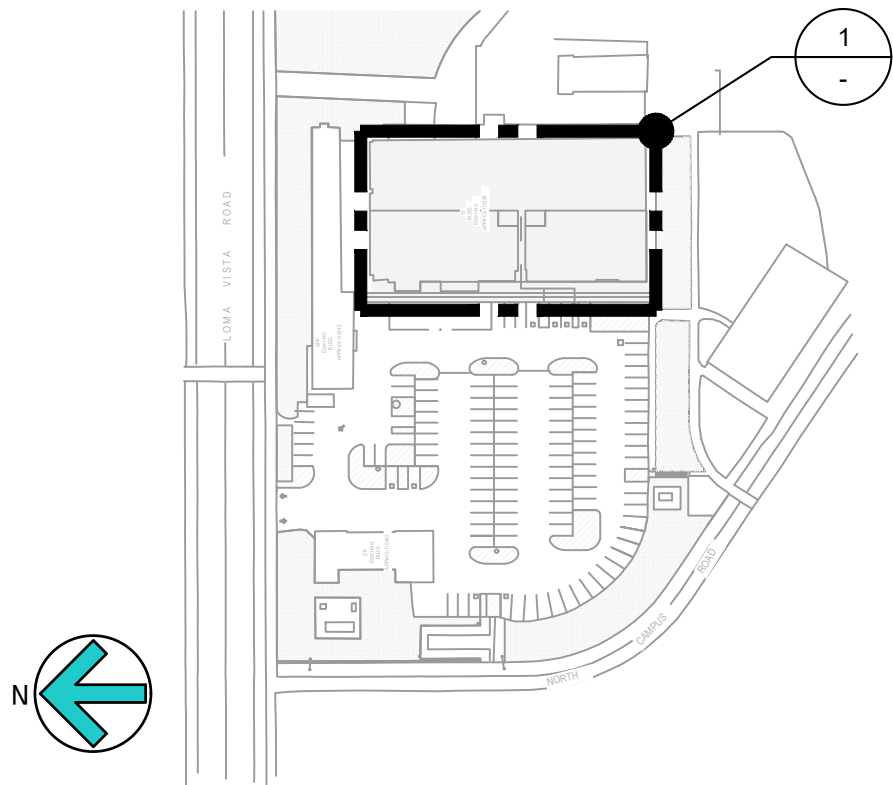
- 1 LP1-42
- 2 LP1-40
- 3 LP1-38
- 4 EM-1
- 5 EM-2
- 6 EM-3



SHEET NOTES:

- CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
- CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
- 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
- MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
- ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
- VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.

KEY MAP

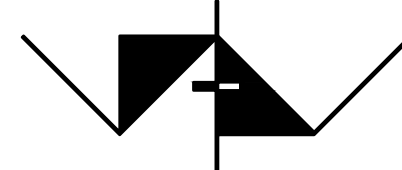


PROJECT TITLE

**21-VCCCD-005-VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



**AMADOR WHITTLE
ARCHITECTS, INC.**

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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

**FIRST FLOOR
LIGHTING PLAN**

PROJECT NO. 21-VCCCD-005

DRAWN: LK/DS

SHEET NUMBER:

PROJECT ARCH: WJA

CHECKED: KL

E301

DATE: 07/25/2022

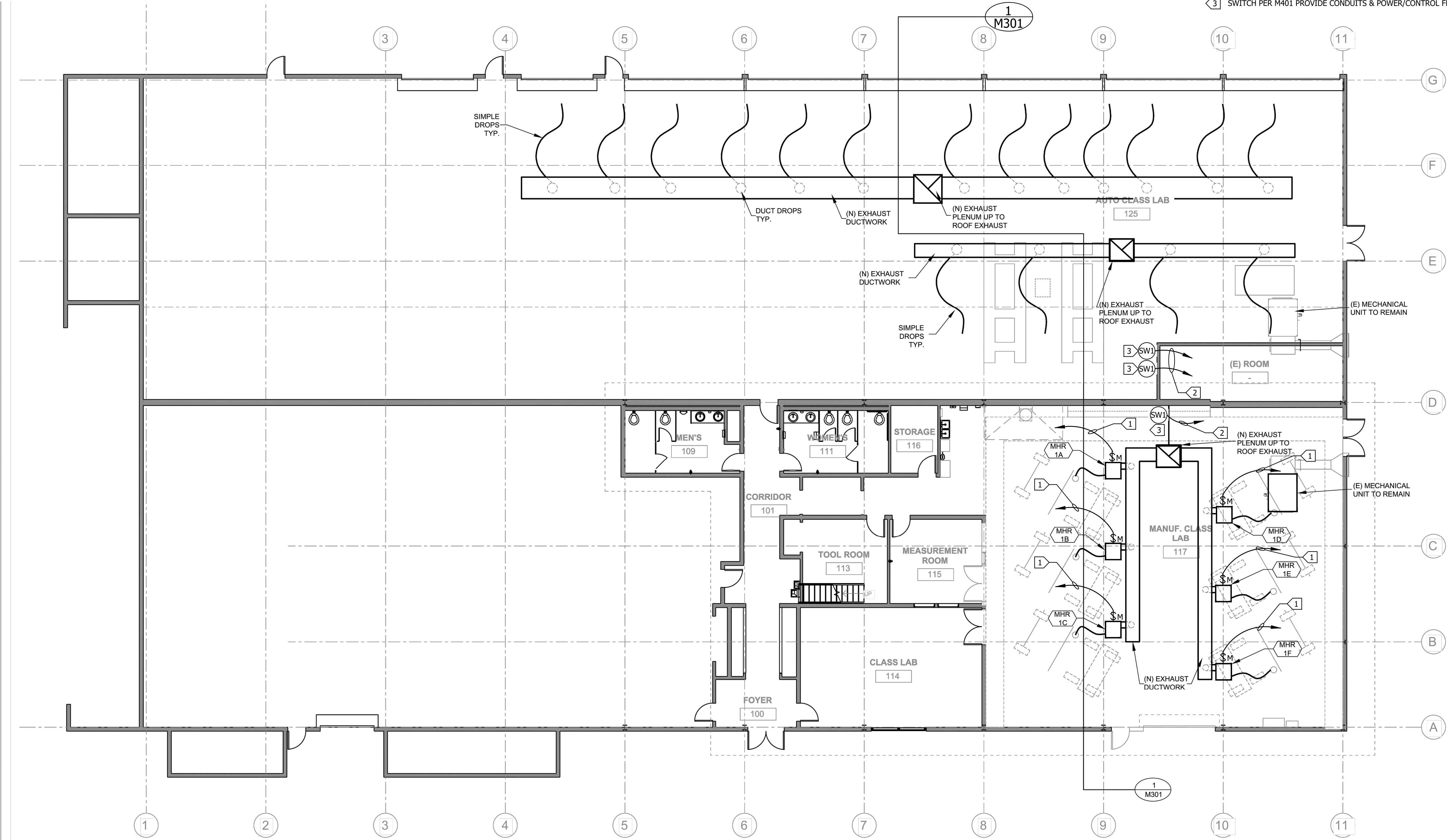
SHEET: OF

TIME: 12:17 pm
DATE: 25 July 2022
PATHNAME: G:\21\359\EL\Sheets
DRAWING FILENAME: 21-359E420
DRAFTER: CM02

ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT												
TAG #	DESCRIPTION	H.P.	FLA	MAX OCP	VOLTAGE	PHASE	NEMA STARTER SIZE OR VFD	DISCONNECT	RECOMMENDED FUSE SIZE/TYPE *	REMARKS	PANEL/CIRCUIT NO.	FEEDER
EF 1	EXHAUST FAN #1	5	8	20	480V	3	VFD	20A/3P	15	LP1 IN MAIN ELECTRICAL ROOM (E600)	LP1-26-28-30	3/4"C-3#10 & 1#10 GROUND
EF 2	EXHAUST FAN #2	7.5	11	20	480V	3	VFD	30A/3P	20	LP1 IN MAIN ELECTRICAL ROOM (E600)	LP1-32-34-36	3/4"C-3#10 & 1#10 GROUND
EF 3	EXHAUST FAN #3	5	8	20	480V	3	VFD	30A/3P	15	LP1 IN MAIN ELECTRICAL ROOM (E600)	LP1-35-37-39	3/4"C-3#10 & 1#10 GROUND
MHR 1A	MOTORIZED HOSE REEL 1A	..	2	15	208	1	NA	MOTOR RATED	..	..	PP3-19-21	3/4"C-2#12 & 1/2 GROUND
MHR 1B	MOTORIZED HOSE REEL 1B	..	2	15	208	1	NA	MOTOR RATED	..	..	PP3-23-25	3/4"C-2#12 & 1/2 GROUND
MHR 1C	MOTORIZED HOSE REEL 1C	..	2	15	208	1	NA	MOTOR RATED	..	..	PP3-27-29	3/4"C-2#12 & 1/2 GROUND
MHR 1D	MOTORIZED HOSE REEL 1D	..	2	15	208	1	NA	MOTOR RATED	..	..	PP3-31-33	3/4"C-2#12 & 1/2 GROUND
MHR 1E	MOTORIZED HOSE REEL 1E	..	2	15	208	1	NA	MOTOR RATED	..	..	PP3-35-37	3/4"C-2#12 & 1/2 GROUND
MHR 1A	MOTORIZED HOSE REEL 1F	..	2	15	208	1	NA	MOTOR RATED	..	..	PP3-39-41	3/4"C-2#12 & 1/2 GROUND
									
* ALL FUSES BY BUSSMAN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.												

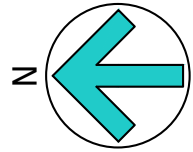
- SHEET NOTES:
1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
 2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
 3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
 4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
 5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
 6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8
 7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
 8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
 9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES,ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
 10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT.
 11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
 12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
 13. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

- KEY NOTES:
- 1 FOR FEEDER AND DISCONNECT INFORMATION SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT THIS SHEET.
 - 2 PROVIDE 3/4"C & CONTROLS PER MECHANICAL (M401)
 - 3 SWITCH PER M401 PROVIDE CONDUITS & POWER/CONTROL FEEDERS PER M401.



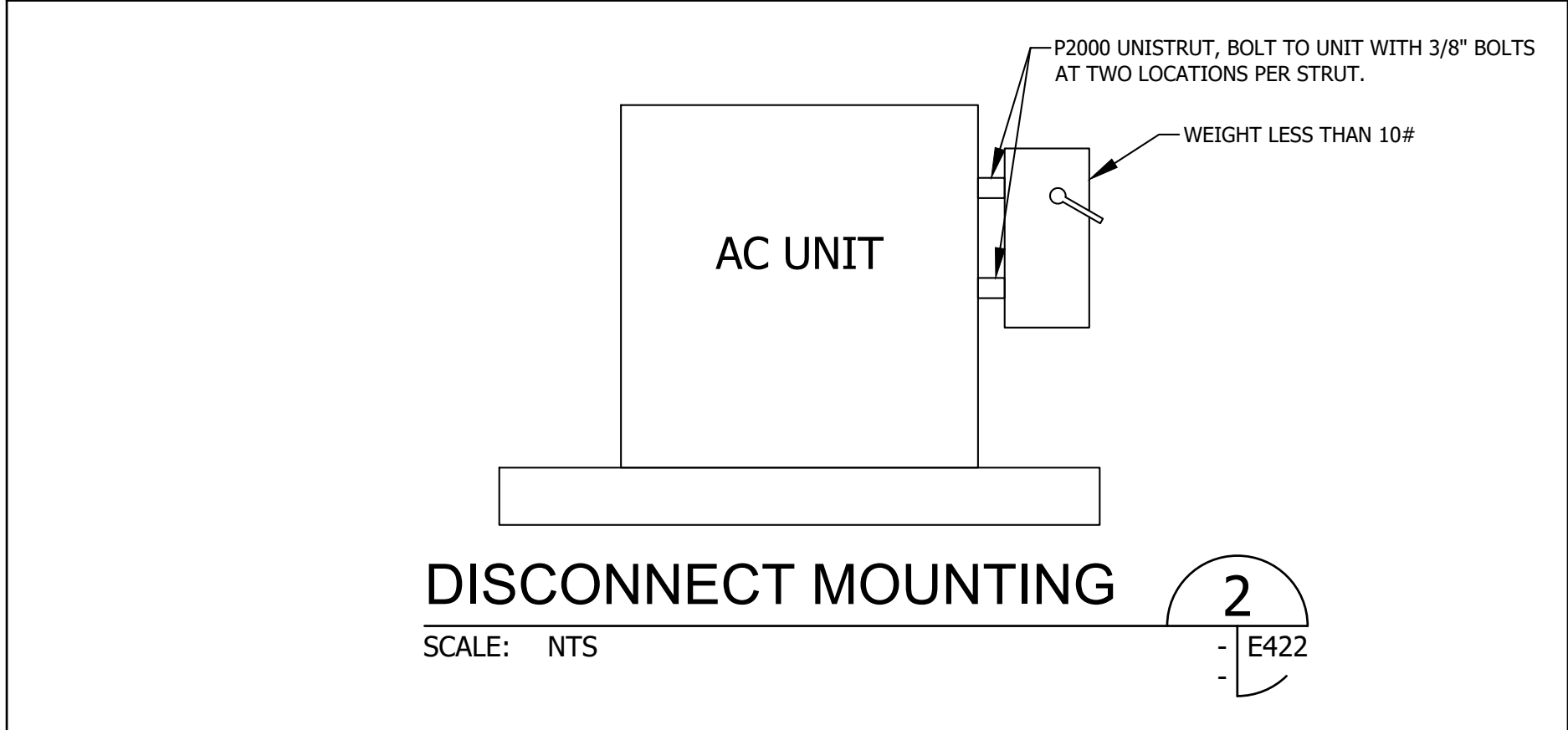
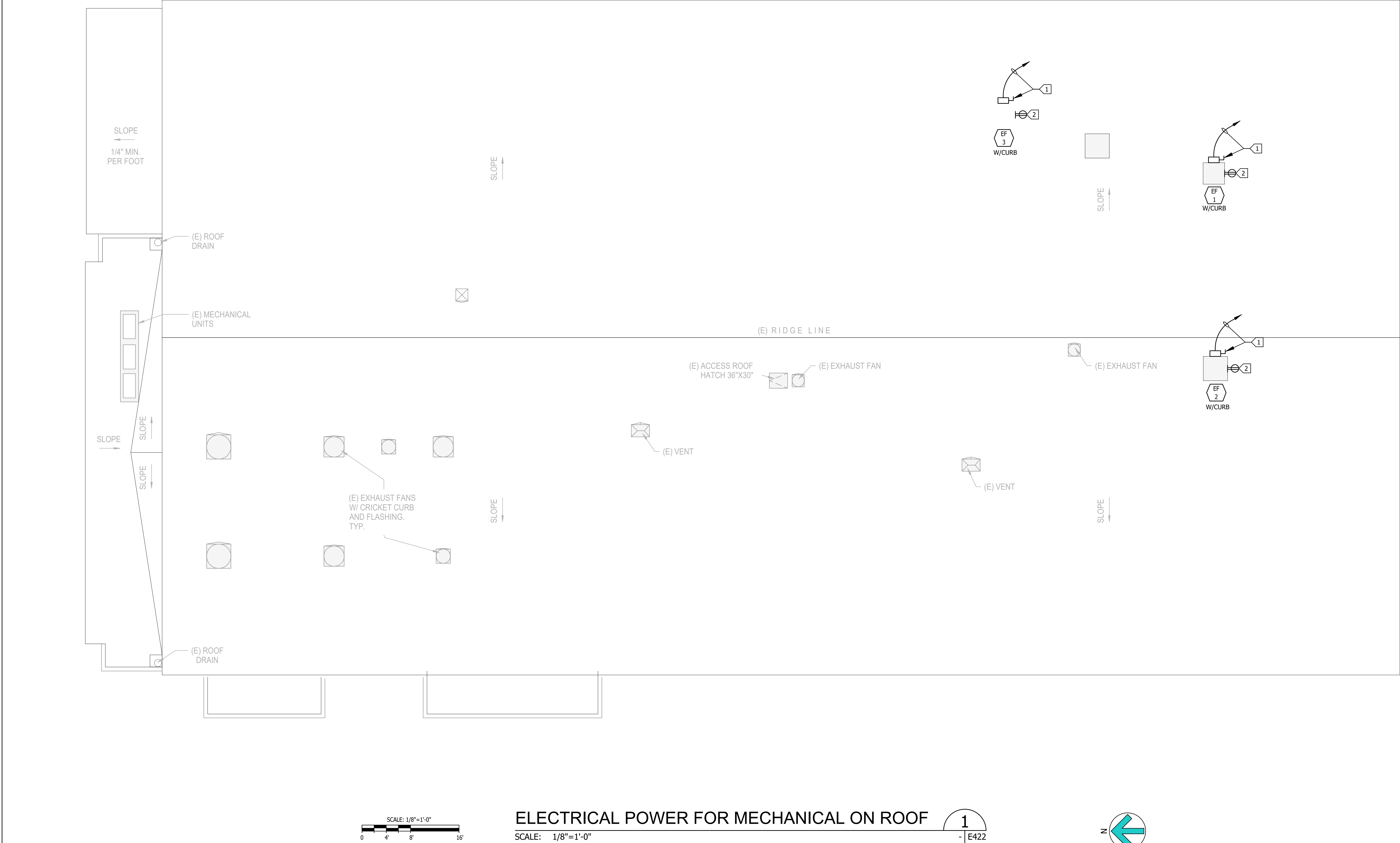
MECHANICAL FLOOR PLAN (ELECTRICAL)
SCALE: 1"=10'-0"

1
E420



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DRAFTER: CM02
CHECKED: CM02
APPVED: CM02

DATE: 25 July 2022
TIME: 12:17 pm
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DRAFTER: CM02



ELECTRICAL POWER FOR MECHANICAL ON ROOF

SCALE: 1/8"=1'-0"

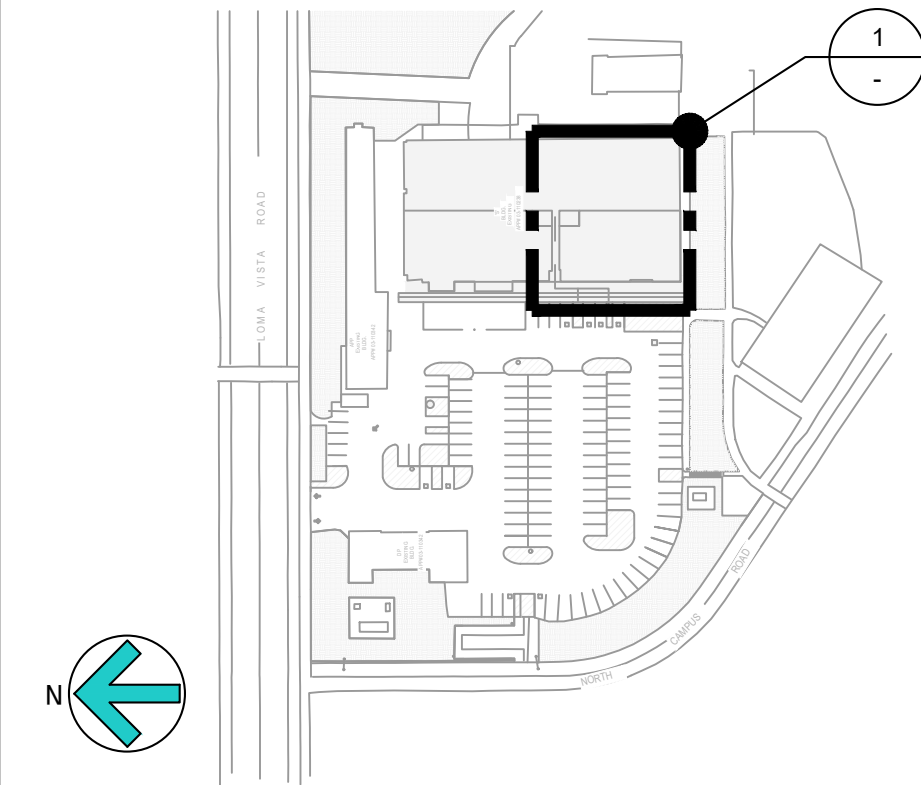
KEY NOTES:

- 1 SEE E420 FOR VFD (BY MECHANICAL) & DISCONNECT AND FEEDER.
- 2 WP GFCI RECEPTACLE, CIRCUIT AS NOTED (PP3-40).

SHEET NOTES:

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
4. THE LOCATION OF ALL ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS.
5. PROVIDE ROOF JACKS AND PROPERLY SEAL ALL ROOF PENETRATIONS TO A LEAK FREE CONDITION.
6. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8
7. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
8. PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
9. NO CONDUIT/FEEDER SHALL BE PERMITTED ON THE ROOF WITH CRIPPLES, ALL FEEDERS SHALL BE RUN BENEATH THE ROOF.
10. ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON AH UNIT, SEE DETAIL 2.
11. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
12. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
13. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.

KEY MAP



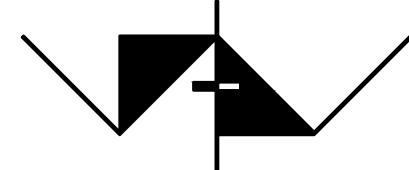
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DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

**21-VCCCD-005-VENTURA
COLLEGE DIESEL SHOP**

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



**AMADOR WHITTLE
ARCHITECTS, INC.**

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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

**ELECTRICAL
POWER FOR
MECHANICAL ON
ROOF**

PROJECT NO.: 21-VCCCD-005 PROJECT ARCH: WJA
DRAWN: LK/DS CHECKED: KL

SHEET NUMBER:

E421

DATE: 07/25/2022 SHEET: ____ OF ____

CONTROL DEVICE SCHEDULE AND LEGEND

INSTALL NEW AUTOMATED LOGIC CONTROL MODULES. SYSTEM TO CONTROL NEW EXHAUST FANS. INCLUDE ALL NEEDED, CONNECTORS, WIRE, TRANSFORMERS, ENCLOSURES, BOXES, ETC., PROGRAMMING AND FUNCTION TESTING TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM. INCLUDE TWO HOURS OF TRAINING.

<div><div>P</div><div>#</div></div>	PRESSURE SENSOR VERIS MODEL PX3 SERIES. RANGING 0-10 IN WC AND 0-6000 FT/MIN. 0-10V
SE6104SP	CONTROL MODULE 6 BINARY OUTPUTS, 10 UNIVERSAL INPUTS, 4 ANALOG OUTPUT FOR EF-2 ONLY. AUTOMATED LOGIC CONTROLS.
SE6166	CONTROL MODULE 6 BINARY OUTPUTS, 6 UNIVERSAL INPUTS, 6 ANALOG OUTPUT COMBINE EF-1 & EF-3. AUTOMATED LOGIC CONTROLS.
ENC-1	CONTROL ENCLOSURE. B-LINE OR HOFFMAN. EXTERIOR ENCLOSURES SHALL BE RATED NEMA 3R.
<div><div>SW</div></div>	KACON T22-372GA2 MAINTAINED PUSH BUTTON SWITCH. GREEN LED.PROVIDE NEAM 1 ENCLOSURE, 110 VOLT 1.5 AMP.

POINTS LIST

EXHAUST FANS

INPUTS	OUTPUTS
PRESSURE SENSOR 1	EF START/STOP
PRESSURE SENSOR 2 (EF 3 & 2)	DAMPER ACTUATORS
EXHAUST FAN STATUS	DAMPER ACTUATORS
EF VFD FAULT	VFD SPEED CONTROL
EF SWITCH ON/OFF	

SEQUENCE

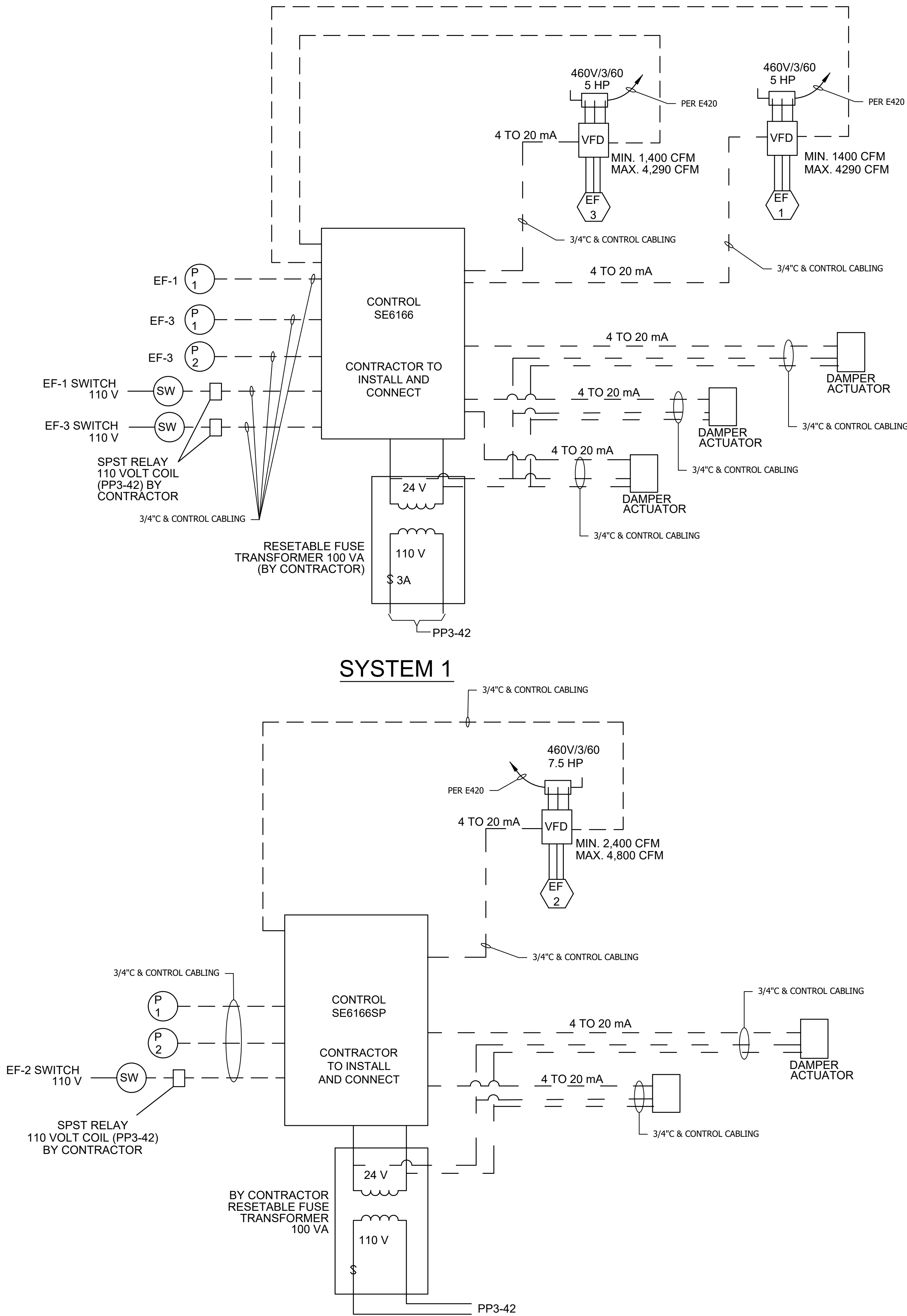
RUN CONDITIONS - REQUESTED:
THE EXHAUST SYSTEM SHALL BE ALLOWED TO RUN BASED ON USER DEFINED TIME SCHEDULE OR VIA AN EXHAUST FAN SWITCH LOCATED IN THE SPACE. (MOMENTARY ON AND MOMENTARY OFF PUSH BUTTON TYPE WITH INDICATOR LIGHT FOR EXHAUST FAN STATUS ON INDICATION.)

EXHAUST FAN:
WHEN EXHAUST SYSTEM IS ENABLED. AN EXHAUST FAN SHALL RUN AT MINIMUM SPEED WITH THE CONTROL DAMPER AND ACTUATOR SET AT MINIMUM OPEN BASED ON AIR BALANCER AND PRESSURE.

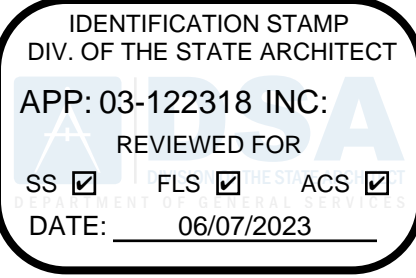
ALARMS SHALL BE PROVIDED AS FOLLOWS:
EXHAUST FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
EXHAUST FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
EXHAUST FAN VFD FAULT.

EXHAUST PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE EXHAUST PLENUM PRESSURES AT END OF EACH BRANCH DUCT. THE CONTROLLER SHALL MODULATE THE EXHAUST FAN VFD SPEED TO MAINTAIN AN EXHAUST PRESSURE SET POINT BASED ON THE WORST CASE PRESSURE SENSOR. THE EXHAUST FAN VFD SPEED SHALL NOT DROP BELOW 20%.

CONTROL DIAGRAM



LINE LEGEND	
LINE VOLTAGE	_____
INPUT LINE	-----
4 TO 20 MA	-----
24 VDC	-----

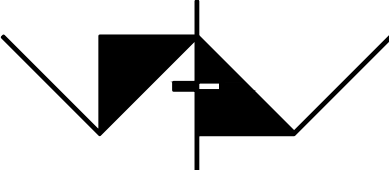


PROJECT TITLE

21-VCCCD-005-VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

CONTROL
DIAGRAM FOR
SYSTEM 1 AND 2

PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA

DRAWN: LK/DS CHECKED: KL

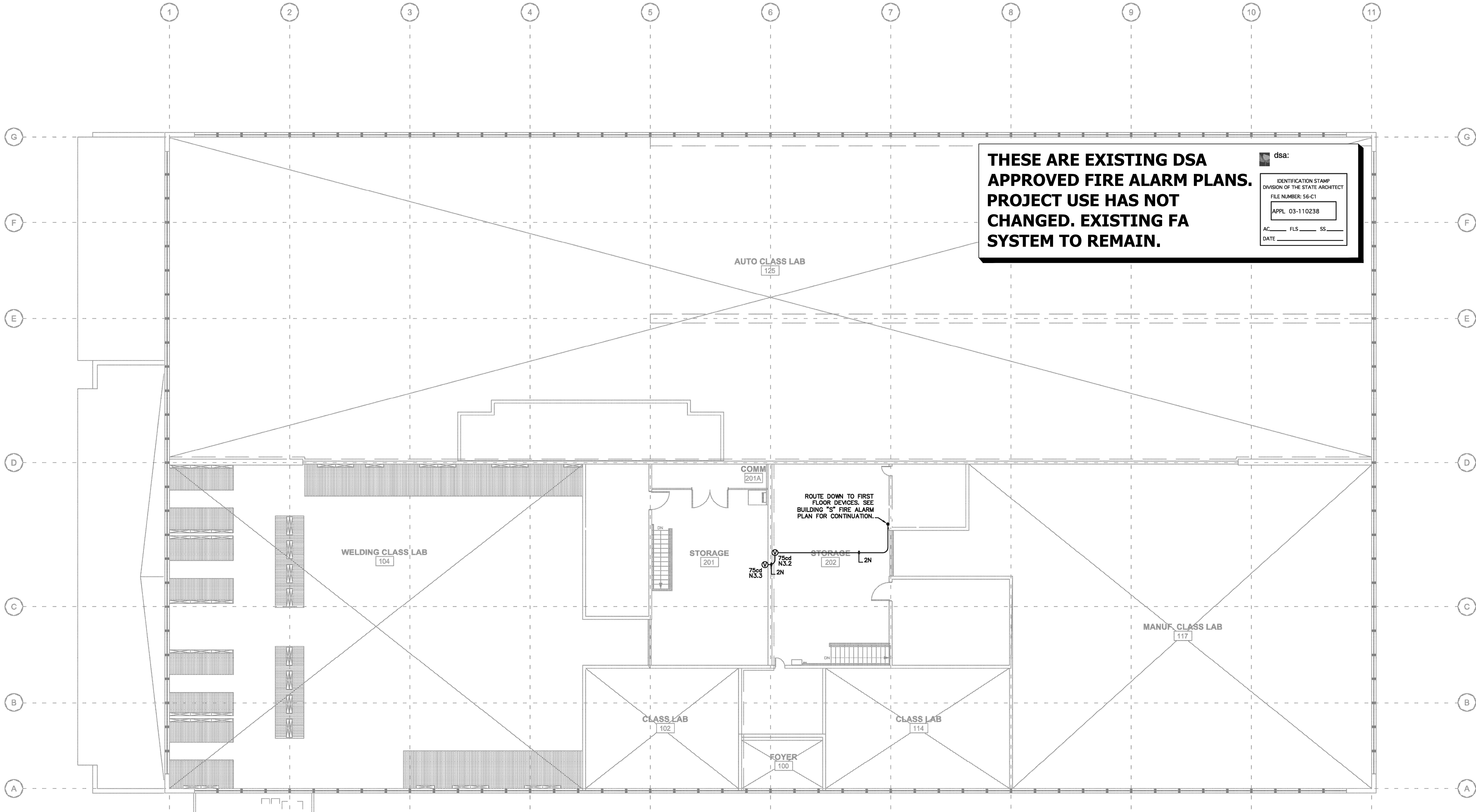
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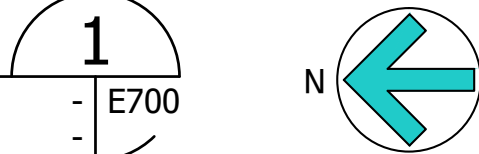
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SHEET: ____ OF ____

TIME: 8:18 am
DATE: 12 January 2023
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DRAFTER: CM02



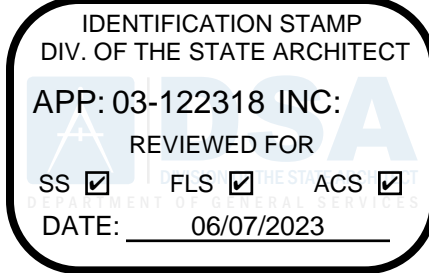
EXISTING BUILDING S MEZZANINE FIRE ALARM PLAN
SCALE: NTS



EXISTING FA
SYSTEM TO REMAIN

WIRE CHART		
SYMBOL	CIRCUIT USE	WIRE DESCRIPTION
S	SIGNALING LINE CIRCUIT (SLO)	2#14 THHN IN CONDUIT
N	NOTIFICATION APPLIANCE CIRCUIT	2#10 THHN IN CONDUIT
A	C BUS COMMUNICATION	4#14 THHN IN CONDUIT
WIRE CONNECTIONS BELOW GRADE NOT PERMITTED		

EXISTING FIRE ALARM SYMBOLS				
SYMBOL	DESCRIPTION	MODEL #	C.S.F.M. #	BACK BOX REQUIREMENTS
FXCP	FIRE ALARM CONTROL PANEL	FIRE CONTROL INSTRUMENTS 7200	7165-0694:174	SUPPLY WITH PANEL
LANI	FIRE ALARM ANNUNCIATOR	FIRE CONTROL INSTRUMENTS EZA	7165-0694:174	FLUSH MOUNT 10.57" W x 8.25"H x 3.12"D
PS	ADDRESSABLE PULL STATION	FIRE CONTROL INSTRUMENTS MS-2AF	7150-0694:261	4" SQ. BOX W/ SINGLE GANG RING
SD	ADDRESSABLE SMOKE DETECTOR	FIRE CONTROL INSTRUMENTS ASD-PL2F	7272-0694:263	4" OCT. BOX W/ MUD RING
VS	STROBE 15cd	GENTEX GES24-15WR	7125-0569:123	SINGLE OR DOUBLE GANG RING
VS	STROBE 75cd	GENTEX GES24-75WR	7125-0569:123	SINGLE OR DOUBLE GANG RING
AV	AUDIO VISUAL WITH HORN 15cd	GENTEX GEC24-15WR	7135-0569:122	SINGLE OR DOUBLE GANG RING
AV	AUDIO VISUAL WITH HORN 75cd	GENTEX GEC24-75WR	7135-0569:122	SINGLE OR DOUBLE GANG RING
SH	SURFACE HORN W/ WP ENCLOSURE	GENTEX GEH24R	7135-0569:122	SINGLE OR DOUBLE GANG RING
WE	WEATHERPROOF ENCLOSURE	GENTEX OUTDOOR ENCLOSURE (GOE)	7300-0569:124	GSB SURFACE BACK BOX
AM	ADDRESSABLE MONITOR MODULE	FIRE CONTROL INSTRUMENTS AMM-2F	7300-0694:178	SINGLE GANG BOX
WS	WATERFLOW SWITCH	POTTER VANE TYPE WATERFLOW VSR-F	7770-0328:001	
TS	TAMPER SWITCH	POTTER PCVS-1	7770-0328:010	
B	FIRE ALARM BELL	GENTEX GB10-24	7135-0569:139	
OB	LISTED OUTDOOR BACKBOX	GENTEX OUTDOOR BACKBOX GBBB		
SS	ADDRESSABLE DUCT SMOKE DETECTOR	FIRE CONTROL INSTRUMENTS SS-PD	3240-1288:167	VERIFY & PROVIDE PER MANUFACTURER'S RECOMMENDATIONS
F.B.O. = FURNISHED BY OTHERS				

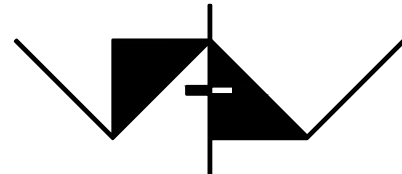


PROJECT TITLE

21-VCCCD-005-VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



AMADOR WHITTLE
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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

BUILDING S
MEZZANINE FIRE
ALARM PLAN

PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA

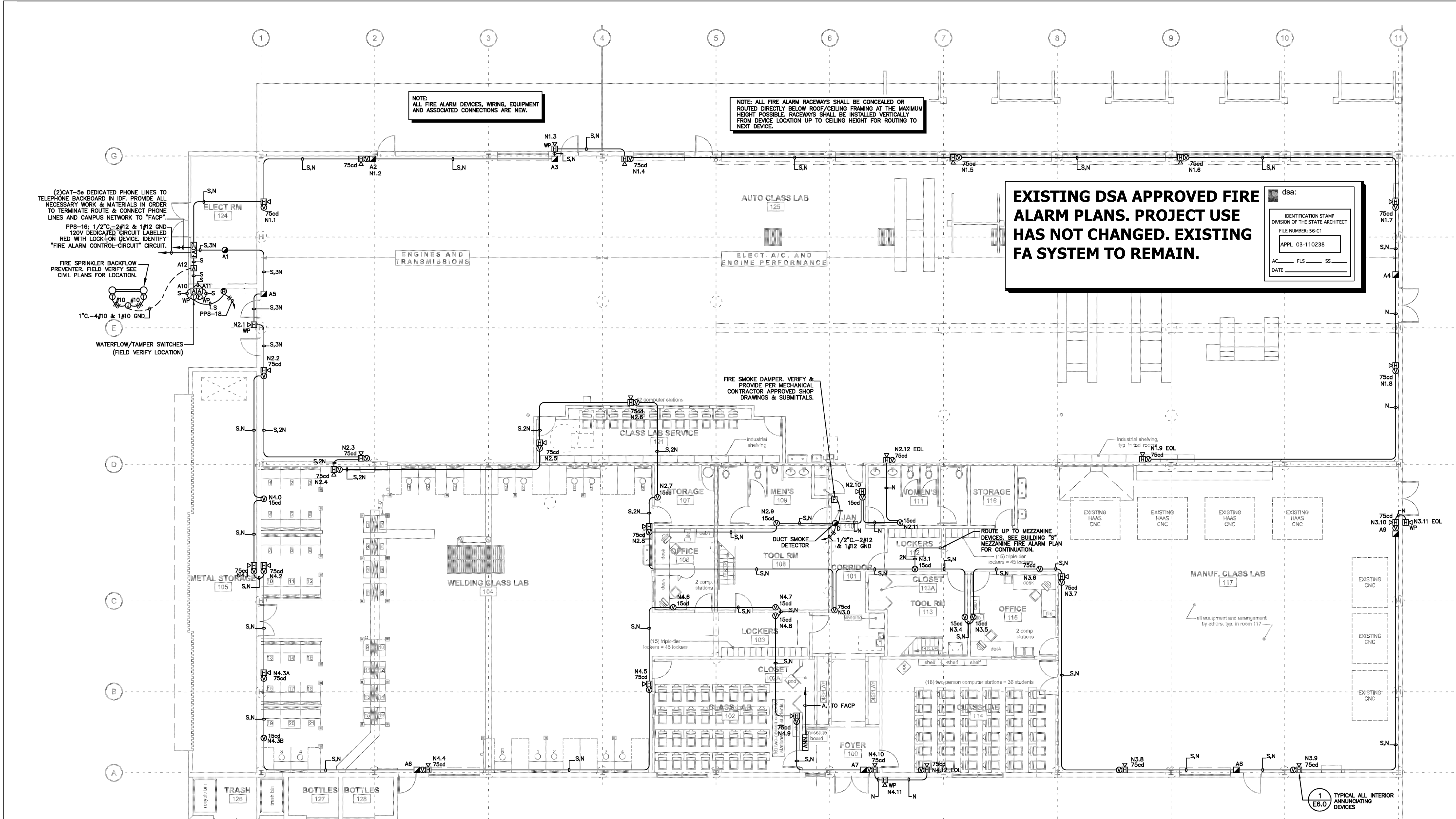
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SHEET NUMBER:

E700

DATE: 07/25/2022 SHEET: OF

TIME: 12:18 pm
DATE: 25 July 2022
PATHNAME: G:\21\359\EL\Sheets
DRAWING FILENAME: 21-359E701
DRAFTER: CM02



BUILDING S FIRE ALARM PLAN
SCALE: NTS

SHEET NOTES

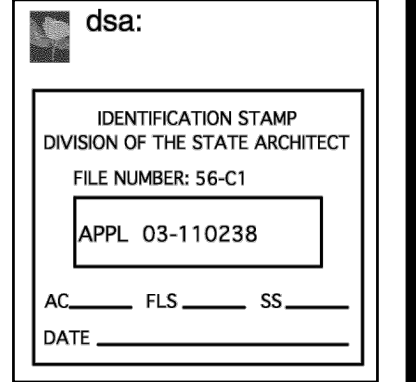
- VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS. FIELD VERIFY LOCATION OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH IN.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS AND EQUIPMENT SHOP DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTORS, RACEWAYS, WIRING, AND DEVICES WHETHER SHOWN ON THE ELECTRICAL OR NOT.
- RACEWAYS SHALL BE CONCEALED TO THE MAXIMUM EXTENT POSSIBLE. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS REQUIREMENTS, PER NATIONAL ELECTRICAL CODE, AND PER LOCAL AUTHORITY HAVING JURISDICTION.
- FIRE ALARM WIRING SHALL BE POWER LIMITED.
- ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT.

NOTE: CONTRACTOR SHALL PROVIDE VANDAL PROOF WIREGUARD WITH ALL FIRE ALARM STROBE AND AUDIO VISUAL DEVICES. TYPICAL.

NOTE: ALL FIRE ALARM DEVICES, WIRING, EQUIPMENT AND ASSOCIATED CONNECTIONS ARE NEW.

NOTE: ALL FIRE ALARM RACEWAYS SHALL BE CONCEALED OR ROUTED DIRECTLY BELOW ROOF/CEILING FRAMING AT THE MAXIMUM HEIGHT POSSIBLE. RACEWAYS SHALL BE INSTALLED VERTICALLY FROM DEVICE LOCATION UP TO CEILING HEIGHT FOR ROUTING TO NEXT DEVICE.

EXISTING DSA APPROVED FIRE ALARM PLANS. PROJECT USE HAS NOT CHANGED. EXISTING FA SYSTEM TO REMAIN.



FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MODEL #	C.S.F.M. #	BACK BOX REQUIREMENTS
[FACP]	FIRE ALARM CONTROL PANEL	FIRE CONTROL INSTRUMENTS 7200	7165-0694:174	SUPPLIED WITH PANEL
[FANN]	FIRE ALARM ANNUNCIATOR	FIRE CONTROL INSTRUMENTS EZA	7165-0694:174	FLUSH MOUNT 10.37" W x 8.25" H x 3.12" D
[PULL]	ADDRESSABLE PULL STATION	FIRE CONTROL INSTRUMENTS MS-7AF	7150-0694:261	4" SQ. BOX W/ SINGLE GANG RING
[SD]	ADDRESSABLE SMOKE DETECTOR	FIRE CONTROL INSTRUMENTS ASD-PL2F	7272-0694:263	4" OCT. BOX W/ MUD RING
[STROBE 15cd]	STROBE 15cd	GENTEX GES24-15WR	7125-0569:123	SINGLE OR DOUBLE GANG RING
[STROBE 75cd]	STROBE 75cd	GENTEX GES24-75WR	7125-0569:123	SINGLE OR DOUBLE GANG RING
[AUD 15cd]	AUDIO VISUAL WITH HORN 15cd	GENTEX GEC24-15WR	7135-0569:122	SINGLE OR DOUBLE GANG RING
[AUD 75cd]	AUDIO VISUAL WITH HORN 75cd	GENTEX GEC24-75WR	7135-0569:122	SINGLE OR DOUBLE GANG RING
[HORN]	SURFACE HORN W/ WP ENCLOSURE	GENTEX GEH24R	7135-0569:122	SINGLE OR DOUBLE GANG RING
[WEATHER]	WEATHERPROOF ENCLOSURE	GENTEX OUTDOOR ENCLOSURE (GOE)	7300-0569:124	GSB SURFACE BACK BOX
[MON]	ADDRESSABLE MONITOR MODULE	FIRE CONTROL INSTRUMENTS AMM-2F	7300-0694:178	SINGLE GANG BOX
[WFS]	WATERFLOW SWITCH	POTTER VANE TYPE WATERFLOW VSR-F	7770-0328:001	
[TAMPER]	TAMPER SWITCH	POTTER PCVS-1	7770-0328:010	
[FIRE ALARM BELL]	FIRE ALARM BELL	GENTEX GB10-24	7135-0569:139	
[UL LISTED OUTDOOR BACKBOX]	UL LISTED OUTDOOR BACKBOX	GENTEX OUTDOOR BACKBOX GB8B		
[ADDRESSABLE DUCT SMOKE DETECTOR]	ADDRESSABLE DUCT SMOKE DETECTOR	FIRE CONTROL INSTRUMENTS SS-PD	3240-1288:167	VERIFY & PROVIDE PER MANUFACTURER'S RECOMMENDATIONS
F.B.O. = FURNISHED BY OTHERS				

WIRE CHART		
SYMBOL	CIRCUIT USE	WIRE DESCRIPTION
S	SIGNALING LINE CIRCUIT (SLC)	2#14 THHN IN CONDUIT
N	NOTIFICATION APPLIANCE CIRCUIT	2#10 THHN IN CONDUIT
A	C BUS COMMUNICATION	4#14 THHN IN CONDUIT
WIRE CONNECTIONS BELOW GRADE NOT PERMITTED		

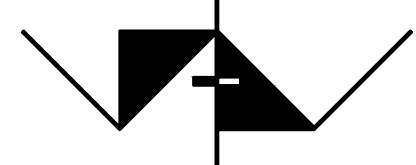
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122318 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/07/2023

PROJECT TITLE

21-VCCCD-005-VENTURA
COLLEGE DIESEL SHOP

4667 TELEGRAPH RD. VENTURA,
CA 93003

COMMISSIONED ARCHITECT



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STAMPS/SEALS



DSA_V3 SUBMITTAL 04/19/2023

SHEET TITLE:

BUILDING S FIRE
ALARM PLAN

PROJECT NO. 21-VCCCD-005 PROJECT ARCH. WJA

DRAWN: LK/DS CHECKED: KL

SHEET NUMBER:

E701

DATE: 07/25/2022 SHEET: OF

