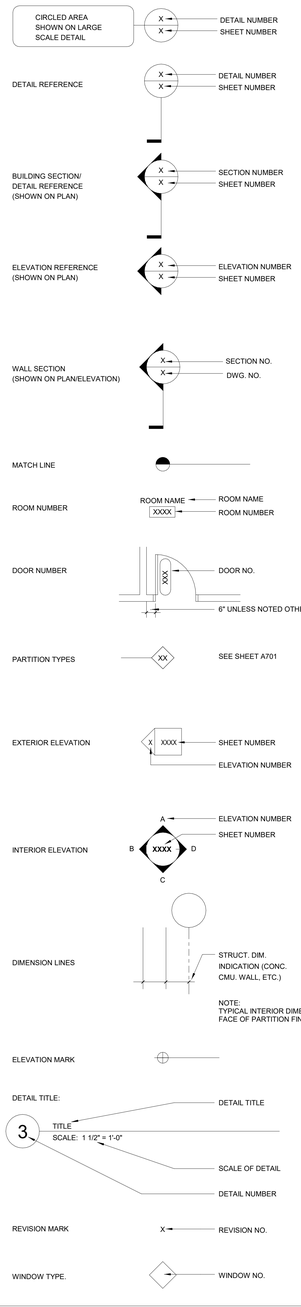
REFERENCE SYMBOLS



STANDARD ABBREVIATIONS

ACC.	ACCESSIBLE
A.D.	AREA DRAIN
ADJ.	ADJACENT OR ADJUSTABLE
AFF.	ABOVE FINISH FLOOR
ALT.	ALTERNATE
APPROX.	APPROXIMATE
ARCH.	ARCHITECT (URAL)
BLDG.	BUILDING
BO.	BOTTOM OF
CB.	CATCH BASIN
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
C.L. or ℄	CENTER LINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
CONT.	CONTINUOUS
CTR.	CENTER
C.W.	COLD WATER
DIA.	DIAMETER
D.F.	DRINKING FOUNTAIN
DIM.	DIMENSION
DN.	DOWN
D.S.	DOWNSPOUT
DWG.	DRAWING
EA.	EACH
E.D.	EMERGENCY DRAIN
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
E.O.	EDGE OF
EQ.	EQUAL
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.B.O.	FURNISHED BY OWNER
F.D.	FLOOR DRAIN
F.E.C.	FIRE EXTINGUISHER CABINET
F.E.H.	FIRE EXTENSION HOOK
F.F.	FINISH FACE OR FLOOR
F.L.	FLOW LINE
FLR.	FLOOR
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.S.	FINISHED SURFACE
GA.	GAUGE
GSM	GALVANIZED SHEET METAL
H.C.	ACCESSIBLE
H.P.	HIGH POINT
HT.	HEIGHT
H.W.	HOT WATER
I.D.	INSIDE DIAMETER
INT.	INTERIOR
JT.	JOINT
M	METER
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR OR OPPOSITE HAND
MISC.	MISCELLANEOUS
mm	MILLIMETER
M.O.	MASONARY OPENING
MTD.	MOUNTED
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER OR OVERFLOW DRAIN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P.L.	PROPERTY LINE
P.D.	PLANTER DRAIN
QTY.	QUANTITY
R.	RISER OR RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCED
RM.	ROOM
R.O.	ROUGH OPENING
SECT.	SECTION
SIM.	SIMILAR
SPEC.	SPECIFICATIONS
SQ.	SQUARE
SF.	SQUARE FOOT
STD.	STANDARD
SYM.	SYMMETRICAL
T.	TREAD
TEL.	TELEPHONE
TEMP.	TEMPERED
T.O.C.	TOP OF CURB
T.O.P.	TOP OF PARAPET
T.O.R.	TOP OF ROOF
T.O.S.	TOP OF STRUCTURE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VAR.	VARIES
V.I.F.	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
&	AND
<	ANGLE OR LESS THAN
@	AT
℄	CENTERLINE
[	CHANNEL
∅	DIAMETER OR ROUND
#	NUMBER

DSA NOTES

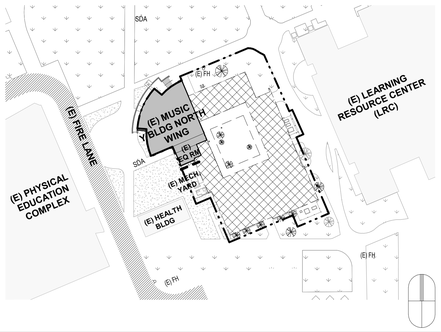
0. THE SCOPE WORK FOR THIS PROJECT TRIGGERS REQUIRED REHABILITATION PER CAC SECTION 4-309(c). THE COMPLETE SCOPE OF THE REHABILITATION FOR THE REMAINING "LITTLE THEATER" IS INCLUDED IN THIS DSA APPLICATION.
1. PER DSA LETTER TO THE DISTRICT DATED AUGUST 16, 2022 THE PORTIONS OF THE REMAINING EXISTING BUILDING, LITTLE THEATER, FAN ROOM AND BREEZEWAY ROOF, MUST BE BROUGHT UP TO THE CURRENT STRUCTURAL CODE. A SEPARATE DSA APPLICATION WILL BE SUBMITTED FOR THE DEMOLITION OF THE EXISTING BUILDING AND STRUCTURAL UPGRADE OF THE REMAINING PORTIONS THEREOF. ADDITIONALLY, CONSTRUCTION FOR THE NEW BUILDING WILL NOT BE ABLE TO PROCEED UNTIL THE STRUCTURAL UPGRADE OF THE EXISTING PORTIONS TO REMAIN AND DEMOLITION OF THE EXISTING BUILDING PORTION IS APPROVED BY DSA. THESE TWO PROJECTS ARE CO-DEPENDENT UPON EACH OTHER FOR DSA CERTIFICATION.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART I, TITLE 24, CALIFORNIA CODE OF REGULATIONS.
3. A CLASS 1 OR CLASS 2 "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART I, TITLE 24, CALIFORNIA CODE OF REGULATIONS.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THIS DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. 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, CCR, 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 DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR).
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
7. COMPLY WITH CFC 901.7 FOR FIRE PROTECTION SYSTEM OUT OF SERVICE. PROVIDE FIRE WATCH AS REQUIRED PER DSA IR F-2.
8. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBS & CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION".
9. 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 A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
10. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
11. MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
12. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER / ARCHITECT OF RECORD OR THE OWNER'S AGENT.
13. A LISTING OF CERTIFIED ATT CAN BE FOUND AT: *https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance*
14. 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 SYSTEM CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
15. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TEST HAVE BEEN COMPLETED.

DSA APP#: 03-123908

PROJECT DIRECTORY

OWNER'S REP	PCM3	760 583-8517	Sheri Phillips	sphillips@pcm3.com	1111 E Artesia Blvd, Compton, CA 90221
ARCHITECT	STRUERE	310 748-7649	Hraztan Zeitlian	hraztan@struere.com	3324 Grand View Blvd, Los Angeles, CA 90066
CIVIL	RHYTON ENGINEERING	818 478-7788	John Alavjov	jalajov@rhaytoncivil.com	13351 Riverside Dr, D-358, Sherman Oaks, CA 91423
STRUCTURAL	BRANDOW & JOHNSTON	213 596-4504	Kim Caravalho	jkcaravalho@bjsce.com	700 S. Flower St. Suite 1800, Los Angeles, CA 90017
MEP, LV, FP	BUDLONG & ASSOCIATES	818 638-8780	Kelly Schall	kelly@budlong.com	315 Arden Ave. Suite 23, Glendale, CA 91203

BUILDING AREA CODE ANALYSIS



PROPOSED TYPE OF CONSTRUCTION: **V-B, NON-SPRINKLERED**
OCCUPANCY (NON SEPARATED OCCUPANCY): **A-1, S-2**

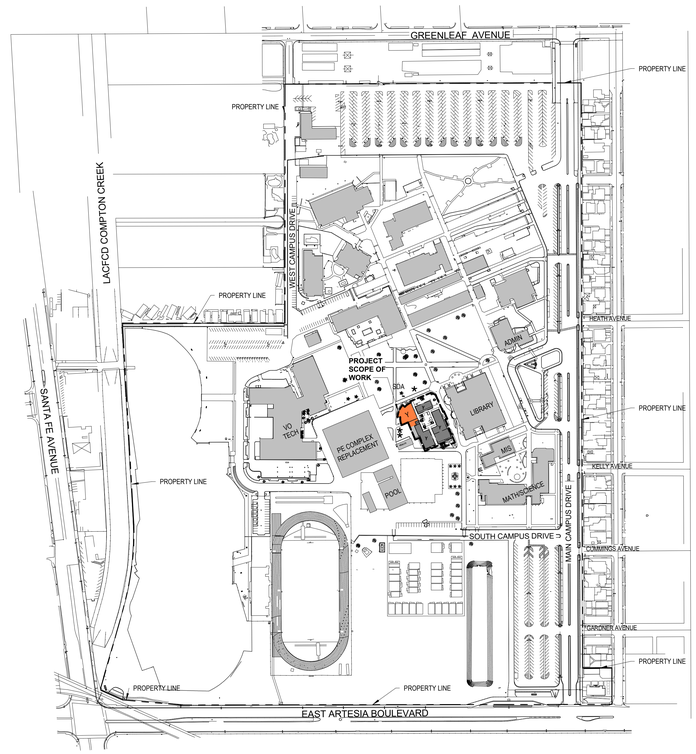
SEE G020 FOR DETAILED CODE ANALYSIS

FIRE RESISTANCE RATING REQUIREMENTS (TABLE 601)
FOR TYPE **V-B** CONSTRUCTION,
FIRE SEPARATION DISTANCE: **> 30'**

MAXIMUM AREA OF EXTERIOR WALL OPENINGS (TABLE 705.8)
UNPROTECTED, NON-SPRINKLERED
FIRE SEPARATION DISTANCE 30' OR GREATER: NO LIMIT

OCCUPANCY SEPARATION (TABLE 508.3.3): **NO REQUIREMENT**
NON-SEPARATED OCCUPANCIES APPLIED **A-3** IS MOST RESTRICTIVE

LOCATION OF BUILDING ON CAMPUS



VICINITY MAP

PROJECT DESCRIPTION

OWNER: COMPTON COMMUNITY COLLEGE DISTRICT

PROJECT ADDRESS: 1111 E ARTESIA BLVD, COMPTON, CA 90221

SCOPE OF WORK:
1. DEMOLITION OF THREE (3) OF THE EXISTING FOUR (4) WINGS OF EXISTING MUSIC BUILDING (BUILDING 'Y')
2. SEISMIC UPGRADE TO THE REMAINING PORTION OF THE EXISTING LITTLE THEATER (BUILDING Y)
3. MEP AND FIRE ALARM
   - A. RELOCATE FIRE ALARM PANEL TO STORAGE ROOM.
   - B. CONNECT EXISTING LITTLE THEATER FIRE ALARM TO NEW FIRE ALARM PANEL.
   - C. REROUTE EXISTING MECHANICAL DUCTWORK TO KEEP THEATER OPERATIONAL.
   - D. BRACE THE EXISTING MECHANICAL DUCTWORK AND ELECTRICAL CONDUITS AND DUCTWORK WHERE REQUIRED.
4. SITE WORK ASSOCIATED WITH THE STRUCTURAL UPGRADE OF THE BUILDING AND EXISTING BUILDING DEMOLITION.

CONSTRUCTION TYPE: V-B, NON-SPRINKLERED

BUILDING OCCUPANCIES: OCCUPANCY GROUP A-1, S-2

BUILDING AREA 4,511 GSF

BUILDING IDENTIFIER BUILDING Y

APPLICABLE CODE

LIST OF APPLICABLE CODES
2022 CALIFORNIA ADMINSTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS
AMERICANS WITH DISABILITIES ACT (ADA, PER 2011 EDITION CBC)
NFPA 24 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED), 2019 EDITION
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALLING CODE (CA AMENDED), 2021 EDITION
UL 464 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES, 2003 EDITION
UL 521 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION
UL 1971 - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED, 2002 (R2010)

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80
SEE CALIFORNIA BUILDING CODE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS

*ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2023 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 1, 2023 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINSTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS MARCH 5, 2022.

SHEET LIST

STATEMENT OF GENERAL CONFORMANCE

Statement of General Conformance
FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

(Application No. 03-123908 **File No.** 19-C1 **)**

[X] The drawings or sheets listed on the cover or index sheet
[X] This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) Design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) Coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 [b])

I find that: [X] All drawings or sheets listed on the cover or index sheet [ ] This drawing or page

[X] is/are in general conformance with the project design intent, and [X] has/have been coordinated with the project plans and specifications.	[ ] is/are in general conformance with the project design intent, and [ ] has/have been coordinated with the project plans and specifications.
Signature: Hraztan Zeitlian — Date: 05.02.2024	Signature: — Date:
Architect or Engineer designated to be in general responsible charge	**Architect or Engineer delegated responsibility for this portion of the work**
Print Name: Hraztan Zeitlian	Print Name:
License Number: 28719 — Expiration Date: 04.30.2025	License Number: — Expiration Date:

COMPTON COLLEGE APPROVAL

SIGNATURE **DR. KEITH CURRY**, President/CEO DATE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123908 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

struere
ADVANCED ARCHITECTURE
3324 GRAND VIEW
LOS ANGELES, CALIFORNIA 90066
TELEPHONE (310) 748-7649
E-MAIL HRAZTAN@STRUERE.COM
WWW.STRUERE.COM

LICENSED ARCHITECT HRAZTAN ZEITLIAN 28719 RENEWAL DATE 04/30/25 STATE OF CALIFORNIA

NOTE:
THIS PROJECT, A#03-123908, CANNOT BE CERTIFIED UNTIL A#03-122535 IS CERTIFIED DUE TO REQUIRED ACCESSIBLE RESTROOM AND DRINKING FOUNTAIN SCOPE.

THIS PROJECT, A#03-123908, SHALL NOT BE CERTIFIED UNTIL PREVIOUS PROJECTS A#03-121755 AND A#03-122535 ARE CERTIFIED DUE TO FIRE LANE AND FIRE HYDRANT SCOPE.

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

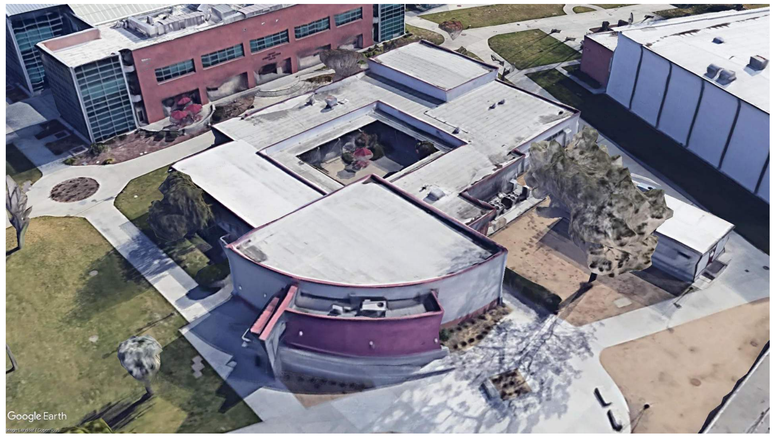
COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

ISSUE DESCRIPTION	
DSA SUBMITTAL	01.12.2024

SHEET TITLE
PROJECT INFO, SHEET INDEX, SYMBOL & ABBREV

SHEET NUMBER
G001



3

2

1

11

9

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6

4

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13

12

KEY AERIAL

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LICENSED ARCHITECT HRAZTAN FEYZIAN 26719 RENEWAL DATE 04/30/25 STATE OF CALIFORNIA

Compton College

COMPTON COMMUNITY
COLLEGE DISTRICT

COMPTON COLLEGE
STRUCTURAL UPGRADE
OF REMAINING PORTIONS
OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION

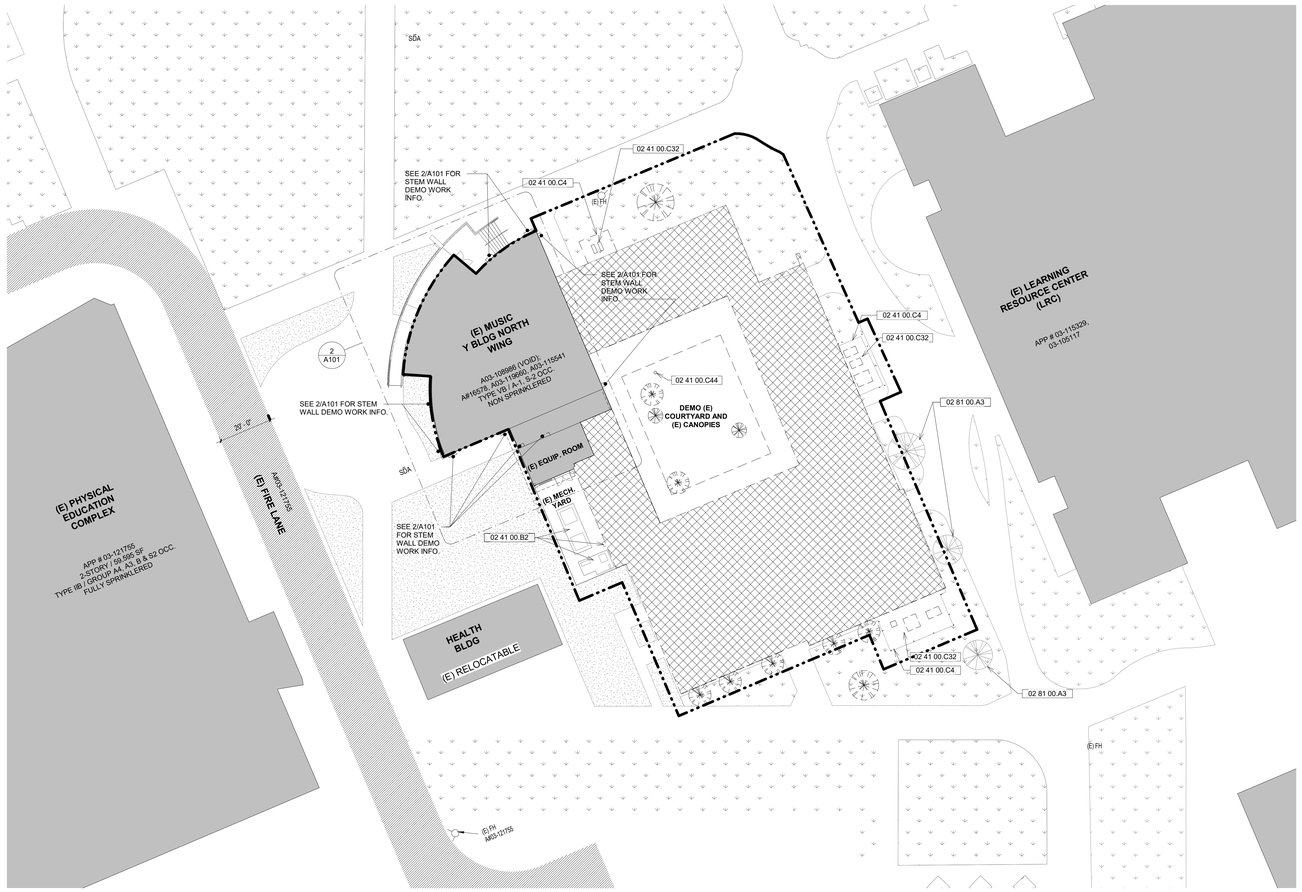
DSA SUBMITTAL	01.12.2024

SHEET TITLE

EXISTING SITE PHOTOS

SHEET NUMBER

G002



1 SITE PLAN - DEMOLITION
SCALE: 1" = 20'-0"

KEYNOTES	
02 41 00.B2	Maintain Existing Utilities In Service, Relocate Existing Electrical Panel and Conduits from Demolished Wall as Necessary
02 41 00.C4	Fence and its entirety To Be Removed
02 41 00.C32	Equipment To Be Removed
02 41 00.C44	Emergency Blue Light Phone To Be Removed. Relocate per Owner direction.
02 81 00.A3	Existing Tree To Remain

SITE PLAN LEGEND - DEMOLITION

- PROJECT SCOPE OF WORK
- EXISTING BUILDING / STRUCTURE TO REMAIN
- EXISTING BUILDING / STRUCTURE TO BE DEMOLISHED
- EXISTING LANDSCAPE
- EXISTING LANDSCAPE
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED

DEMOLITION NOTES:

1. AVOID DISRUPTION TO ADJACENT OCCUPIED BUILDING, DISRUPTION PLAN SHALL BE IN PLACE AND APPROVED BY THE DISTRICT PRIOR TO COMMENCE OF WORK.
2. DEMOLITION AND REMOVAL (E) FOUNDATION UP TO THE LIMIT OF OVEREXCAVATION. REFER TO GEOTECHNICAL REPORT RECOMMENDATIONS.
3. ALL SHUT DOWNS OF MECHANICAL, FIRE SPRINKLERS, FIRE ALARM AND/OR ELECTRICAL SYSTEMS SHALL BE COORDINATED WITH THE OWNER.
4. COORDINATE WITH THE OWNER TO IDENTIFY EXISTING ITEMS THAT ARE TO BE SALVAGED AND RELOCATED.
5. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
6. DEMOLITION DRAWINGS INDICATE MINIMUM DEMOLITION SCOPE. CONTRACTOR SHALL DETERMINE COMPLETE EXTENT OF DEMOLITION SCOPE, INCLUDING MEANS AND METHODS REQUIRED TO PERFORM WORK.
7. COMPLY WITH CALIFORNIA FIRE CODE CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
8. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXITS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE FIGHTING EQUIPMENT AND/OR PERSONNEL.
9. ALL SITE AND LANDSCAPE COMPONENTS WITHIN THE PROJECT SCOPE OF WORK ARE TO BE REMOVED, UNLESS NOTED OTHERWISE, PROTECT IN PLACE AS REQUIRED.
10. AT EDGE OF PROJECT SCOPE OF WORK, PROTECT EXISTING FINISHES AND SITE ELEMENTS TO REMAIN FROM DEMOLITION ACTIVES.
11. WHERE EXISTING CONSTRUCTION IS REMOVED, CUT, DRILLED, DAMAGED OR OTHERWISE DISTURBED, PATCH DEFECTIVE AND INCOMPLETE SURFACES AS REQUIRED TO MATCH ADJACENT, EXISTING UNDAMAGED SURFACES, UNLESS NOTED OTHERWISE.
12. PROVIDE AND MAINTAIN PHYSICAL BARRIER AROUND ARE OF DEMOLITION AT ALL TIMES.
13. ACCESS TO AND EGRESS FROM EXISTING ADJOINING CAMPUS BUILDINGS SHALL BE MAINTAINED DURING DEMOLITION.
14. HAZMAT AND ABATEMENT REPORTS SHALL BE PROVIDED BY THE OWNER AS AN APPENDIX TO THE SPECIFICATIONS.
15. REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, LOW VOLTAGE AND FIRE PROTECTION DRAWINGS FOR DISCIPLINE SPECIFIC DEMOLITION EMS NOT SHOWN OR NOTED ON ARCHITECTURAL DRAWINGS.

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LICENSED ARCHITECT HRAZTAN ZEITLIAN 26719 RENEWAL DATE: 04/30/25 STATE OF CALIFORNIA

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

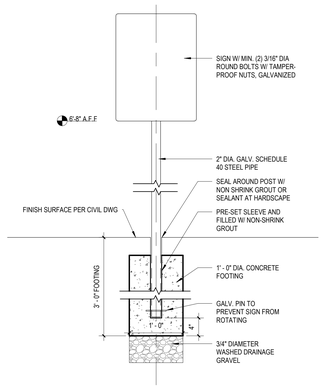
1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

ISSUE DESCRIPTION

	DSA SUBMITTAL	01.12.2024

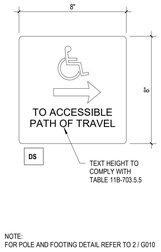
SHEET TITLE
DEMOLITION SITE PLAN

SHEET NUMBER
G003

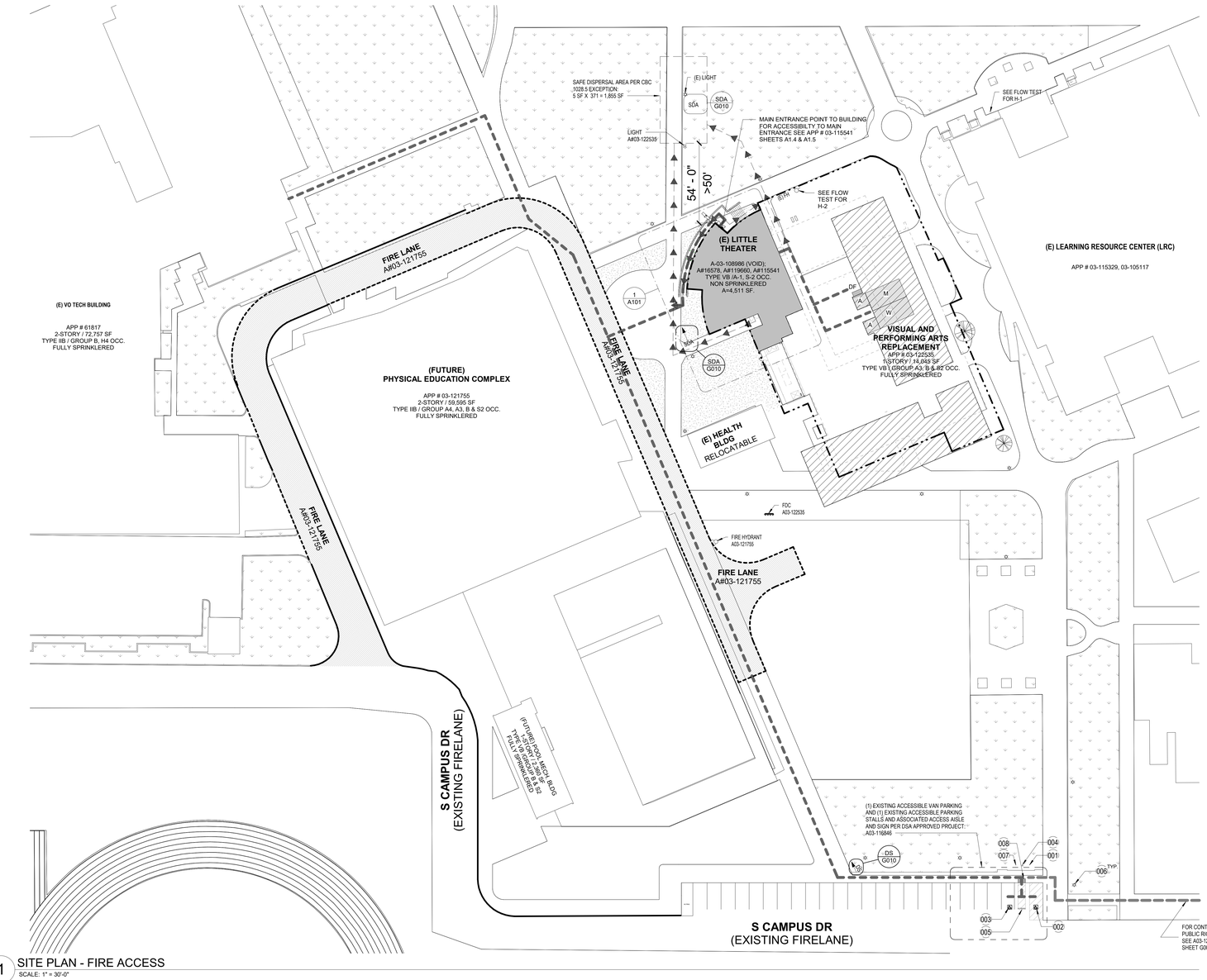


2 TYPICAL POLE & FOOTING SIGNAGE
SCALE: 1" = 1'-0"

SDA SAFE DISPERSAL AREA SIGN
SCALE: 3" = 1'-0"



DS DIRECTIONAL SIGN
SCALE: 3" = 1'-0"



1 SITE PLAN - FIRE ACCESS
SCALE: 1" = 30'-0"

CODE AND BUILDING DESCRIPTION

LOCAL FIRE AUTHORITY: CITY OF COMPTON FIRE DEPARTMENT
(COMPLY W/ REQUIREMENTS. FOR FIRE APPARATUS ACCESS ROADS)
GOVERNING AUTHORITY: CALIFORNIA DIVISION OF STATE ARCHITECT
GOVERNING CODE: 2022 CALIFORNIA FIRE CODE INCLUDING APPENDIXES BB, CC

BUILDING INFORMATION

TYPE OF CONSTRUCTION:	**VB**, NON-SPRINKLERED (REMAINING PORTION EXISTING LITTLE THEATER - BUILDING 'Y')
AREA:	4,511 GSF
HEIGHT:	1-STORY, (E) 23' - 6" HIGH
OCCUPANCY:	GROUP A-1, S2

ACCESSIBLE PATH OF TRAVEL NOTES

- ACCESSIBLE PATH OF TRAVEL NOTES:
  ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANDING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDINT OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80".

  TO THE BEST OF AOR'S KNOWLEDGE, Hraztan Zeitlian (STRUERE, AOR) HAS VERIFIED THAT THERE ARE NO BARRIERS IN THE INDICATED PATH OF TRAVEL.
- SEE SHEET G010 FOR SIGNAGE DETAILS.
- SEE CIVIL DRAWINGS FOR GRADING AND HORIZONTAL CONTROL.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE IN CHARGE STATEMENT:
P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH 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 POT 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 PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

LEGEND AND KEYNOTES

LEGEND

- PROJECT SCOPE OF WORK
- EXISTING BUILDING / STRUCTURE
- VISUAL AND PERFORMING ARTS REPLACEMENT (A03-122535)
- PORTIONS OF EXISTING BUILDING Y TO BE DEMOLISHED
- LANDSCAPE
- CHAINLINK FENCE
- FIRE LANE, (PER A03-121755)
- (E) FH — (E) EXISTING FIRE HYDRANT
- (E) EXISTING FDC
- (E) EXISTING POLE LIGHT TO REMAIN
- ACCESSIBLE PATH OF TRAVEL
- EXIT PATH OF TRAVEL
- COMBINATION OF ACC. POT AND EXIT POT
- M MULTI-USER RESTROOM - MEN (PER A03-122535)
- W MULTI-USER RESTROOM - WOMEN (PER A03-122535)
- A ALL GENDER RESTROOM (PER A03-122535)
- DF DRINKING FOUNTAIN (PER A03-122535)
- DS DIRECTIONAL SIGN (PER A03-121755), SEE DS G010
- SDA SAFE DISPERSAL AREA SIGN (PER A03-122535), SEE SDA G010

PARKING ANALYSIS:

# OF (E) NON-ACC. PARKING STALL:	22
# OF (E) ACCESSIBLE PARKING STALL:	1 VAN ACCESSIBLE 1 ACCESSIBLE
TOTAL # OF (E) PARKING STALL:	24

KEYNOTES	
001	(E) STANDARD ACCESSIBLE PARKING SIGN PER A03-116846
002	(E) ACCESSIBLE PARKING SPACE PER A03-116846
003	(E) VAN ACCESSIBLE PARKING SPACE PER A03-116846
004	TOW-AWAY WARNING SIGN PER A03-121755
005	(E) ACCESSIBLE ACCESS AISLE PER A03-116846
006	(E) POLE LIGHT TO REMAIN
007	VAN ACCESSIBLE PARKING SIGN PER A03-121755
008	(E) ACCESSIBLE CURB RAMP PER A03-116846

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ADVANCED ARCHITECTURE
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TELEPHONE (310) 748-7649
E-MAIL HRAZTAN@STRUERE.COM
WWW.STRUERE.COM
LICENSED ARCHITECT HRAZTAN ZEITLIAN 26719 RENEWAL DATE 04/30/25 STATE OF CALIFORNIA

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

ISSUE DESCRIPTION

DSA SUBMITTAL	01.12.2024

SHEET TITLE
ACCESSIBLE P.O.T. SITE PLAN AND FIRE DEPT ACCESS PLAN

SHEET NUMBER
G010

GENERAL NOTES:

0 NO ALLOWANCE SHALL BE MADE FOR ANY EXTRA OR EXTENSION OF TIME DUE TO CONTRACTOR'S FAILURE OR NEGLECT OF COMPLETE EXAMINATION OF THE JOB SITE.

1. THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, CONSTRUCTION SCHEDULES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PROGRAMS IN CONNECTION WITH THE PROJECT, OR FOR ACTS, OMISSIONS, OR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS BY THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS OR ENTITIES OR THEIR AGENTS OR EMPLOYEES PERFORMING OR SUPPLYING THE WORK.

2. PRIOR TO THE START OF THE CONSTRUCTION WORK, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY INSPECT AND VERIFY ALL FIELD CONDITIONS AS WELL AS ALL ASSEMBLIES AND CONFIGURATIONS SHOWN ON THE ARCHITECT'S DRAWINGS. IF WORK CANNOT BE PERFORMED AS SHOWN IN THE ARCHITECT'S DRAWINGS IN THE OPINION OF THE CONTRACTOR, OR IF THERE ARE CONTRADICTIONS BETWEEN THE ARCHITECTS INSTRUMENTS OF SERVICE ACCORDING TO THE CONTRACTOR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND COPY THE ARCHITECT'S CLIENT IMMEDIATELY. WORK PERFORMED AFTER SUCH DISCOVERY, UNLESS AUTHORIZED BY THE CLIENT SHALL BE DONE AT THE CONTRACTOR'S RISK.

3. THE CONTRACTOR SHALL PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF ALL OPENINGS IN WALL CONSTRUCTION NECESSARY FOR THE INSTALLATION OF THE WORK.

4. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS ON SITE PRIOR TO COMMENCING THE WORK. CONTRACTOR IS TO NOTIFY THE CLIENT AND COPY THE ARCHITECT AT ONCE UPON DISCOVERY OF ANY DISCREPANCIES.

5. THE CONTRACTOR SHALL VERIFY DRAWINGS DIMENSIONS AGAINST ACTUAL CONDITIONS AND BOUNDARIES AND SHALL NOTIFY THE ARCHITECT OF ANY AREAS WHICH WOULD DIFFER FROM THE INTENT OF THE DRAWINGS OR SHOW DISCREPANCY BETWEEN SECTIONS OF THE CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION.

6. ARCHITECT IS ONLY RESPONSIBLE TO THE ARCHITECT'S CLIENT. ARCHITECT IS NOT RESPONSIBLE TO CONTRACTOR AND HIS SUBCONTRACTORS.

GENERAL NOTES: cont....

7. THE CONTRACTOR WILL INFORM THE ARCHITECT WITH THE CONSTRUCTION START DATE, AS WELL AS OF THE DATE OF SUBSTANTIAL COMPLETION, AND OF THE AMOUNT OF THE CONSTRUCTION COST OF THE PROJECT. IF REQUESTED BY THE ARCHITECT, THE ARCHITECT'S CLIENT WILL CAUSE THE CONTRACTOR TO PROVIDE SUCH INFORMATION TO THE ARCHITECT. THE CONTRACTOR SHALL PROVIDE THE ARCHITECT A SUMMARY OF THE TOTAL AMOUNT OF CHANGE ORDERS AT PROJECT CLOSEOUT.

8. ANY ALTERNATES TO SPECIFIED MATERIALS, FINISHES AND ASSEMBLIES WILL BE THE CONTRACTOR'S RESPONSIBILITY AND SUBJECT TO ARCHITECT'S AND THE ARCHITECT'S CLIENT'S APPROVALS. THE ARCHITECT IS NOT RESPONSIBLE FOR ANY CHANGES BY CONTRACTOR THAT DEVIATE FROM THE ARCHITECT'S DRAWINGS WITHOUT ARCHITECT'S WRITTEN APPROVAL.

9. ARCHITECT IS NOT RESPONSIBLE FOR ANY MATERIALS, FINISHES OR ASSEMBLIES BECOMING NO LONGER PRACTICALLY AVAILABLE EITHER DUE TO THE MANUFACTURER HAVING DISCONTINUED THIS PRODUCT SINCE THE TIME OF THE ARCHITECT'S SPECIFICATION, OR DUE TO THE CONTRACTOR'S OR THE CONTRACTOR'S SUBCONTRACTORS' LACK OF ADEQUATE PROCUREMENT PLANNING IN THE OPINION OF THE ARCHITECT.

10. CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; & THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ARCHITECT HARMLESS FROM ANY AND ALL LIABILITY, REAL, OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR THE WORK ON THIS PROJECT.

11. CONTRACTOR SHALL USE EXTREME CARE AND CAUTION DURING THE CONSTRUCTION SO AS NOT TO DAMAGE ANY ON OR OFF-SITE EXISTING FACILITIES. ANY DAMAGE DONE BY THE CONTRACTOR TO EXISTING FACILITIES SHALL BE REPAIRED TO THE SATISFACTION OF AND AT NO EXPENSE TO THE OWNER.

12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISTRIBUTE ADEQUATE COPIES OF ALL DRAWINGS TO ALL TRADES FALLING UNDER THEIR RESPONSIBILITY AT ALL TIMES DURING THE PROGRESS OF THE JOB (I.E. REVISIONS).

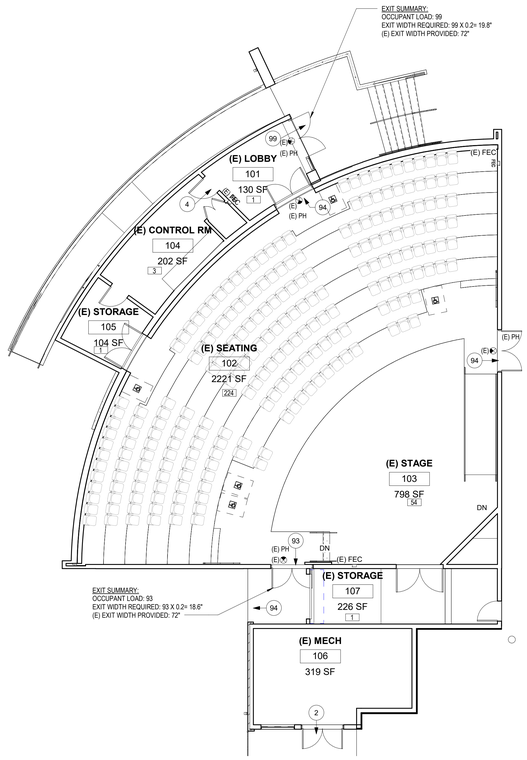
GENERAL NOTES: cont....

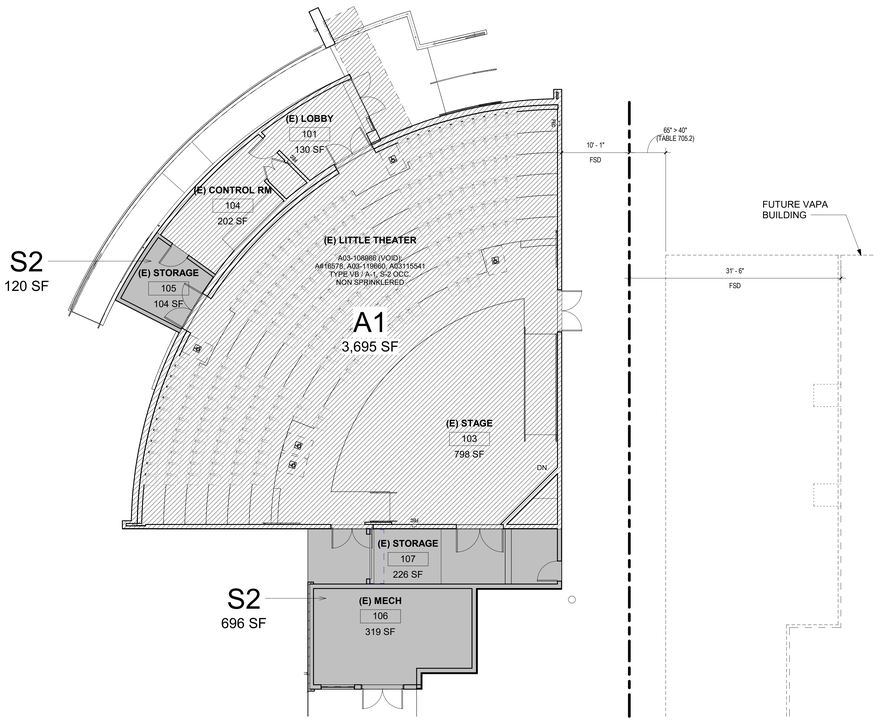
13. THE CONTRACTOR SHALL AT ALL TIMES, KEEP PREMISES FREE FROM ACCUMULATION OF DEBRIS. AT THE COMPLETION OF THE WORK, HE SHALL CLEAN ALL GLASS SURFACES AND LEAVE THE WORK "BROOM CLEAN".

14. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL EQUIPMENT, AND OTHER ITEMS NECESSARY FOR THE COMPLETION OF ALL WORK SHOWN, CALLED FOR, OR REASONABLY IMPLIED BY THE CONTRACT DOCUMENTS EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.

15. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCES/BARRIERS AROUND ALL CONSTRUCTION AREAS.

16. UPON COMPLETION OF THE JOB, THE CONTRACTOR SHALL SUBMIT CERTIFICATES OF INSPECTION OF SATISFACTORY COMPLETION.





OCCUPANCY LOAD-LEVEL 1							
Number	Name	Function of Space	Area	Net/Gross Area	OLF	Occ. Load	
101	(E) LOBBY	CIRCULATION	130 SF		150 SF	1	
102	(E) SEATING	ASSEMBLY WITH FIXED SEATING	2221 SF	-	10 SF	224	SEATS
103	(E) STAGE	STAGE	798 SF		15 SF	54	
104	(E) CONTROL RM	BUSINESS	202 SF		100 SF	3	
105	(E) STORAGE	ACCESSORY STORAGE AREA	104 SF		300 SF	1	
106	(E) MECH	MECHANICAL EQUIPMENT ROOM	319 SF		300 SF	2	
107	(E) STORAGE	MECHANICAL EQUIPMENT ROOM	226 SF		300 SF	1	
						286	

NOTE:
286 (<300). AUTOMATIC FIRE SPRINKLER IS NOT REQUIRED PER 903.2.1.1

BUILDING AREA CODE ANALYSIS										
GROUP	CONST. TYPE	ALLOWABLE STORY (TABLE 504.4)	ALLOWABLE AREA AT (TABLE 506.2)	NS (TABLE 506.2)	MAX HT (TABLE 504.3, w/ footnote i)	ACTUAL HT	ACTUAL # OF STORY	ACTUAL AREA PER OCC PER FLOOR	ALLOWABLE AREA / FLOOR	ACTUAL AREA PER FLOOR
A1	VB	1	24,000	5,500	40'	23'-6"	1	3,695	24,000	4,511 (<5,500)
S2		3	54,000	13,500	60'			816 (120 + 696)		

LEGEND

- GROUP A1
- GROUP S2
- IMAGINARY PROPERTY LINE
- 0 → EXITING LOAD
- FEC — FIRE EXTINGUISHER CABINET
- EXIT SIGN
- PH — PANIC HARDWARE
- (E) — EXISTING TO REMAIN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123908 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

struere
ADVANCED ARCHITECTURE
3324 GRAND VIEW
LOS ANGELES, CALIFORNIA 90066
TELEPHONE (310) 748-7649
E-MAIL HRAZTAN@STRUERE.COM
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LICENSED ARCHITECT
HRAZTAN ZEITLIAN
26719
RENEWAL DATE: 04/30/25
STATE OF CALIFORNIA

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

ISSUE DESCRIPTION

	DSA SUBMITTAL	01.12.2024

SHEET TITLE

CODE ANALYSIS

SHEET NUMBER

G020

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS SHALL CONFORM TO 2022 CALIFORNIA BUILDING CODE (CBC–2022), THE STATE MODEL WATER EFFICIENCY LANDSCAPE ORDINANCE, THE UNIFORM BUILDING CODE (FOR EXCAVATION AND GRADING), AND WITH THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) STANDARD PLANS, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS.
2. ALL WORK INDICATED HEREON SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITIES, INCLUDING LOCATION AND ELEVATION AT THE PERIMETER OF THE SITE. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
4. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION, SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE CIVIL ENGINEER OF RECORD.
5. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE CIVIL ENGINEER OF RECORD.
6. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
7. ANY MODIFICATIONS OF OR CHANGES TO THESE PLANS MUST BE APPROVED BY THE CIVIL ENGINEER.
8. ALL SITE DEMOLITION AND UNDERGROUND UTILITIES CAPPING ACTIVITIES SHALL COMPLY WITH THE COMPTON COMMUNITY COLLEGE DISTRICT REQUIREMENT, WHICH CONTROL AND RESTRICTS NOISE FROM THE USE OF DEMOLITION AND CONSTRUCTION EQUIPMENT.
9. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED BY THE CONSTRUCTION MANAGER DISPOSAL SITES OR AT A LEGAL DUMPSITE. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE CONSTRUCTION MANAGER UPON REQUEST.
10. A COPY OF THE SITE DEMOLITION PLANS MUST BE IN POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE ON SITE AT ALL TIMES.
11. SITE WORK LIMITS, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A FIELD ENGINEER OR BY A LICENSED SURVEYOR, PRIOR TO CONSTRUCTION..
12. ALL GEOTECHNICAL RECOMMENDATIONS IMPOSED BY THE CONSULTANT OR CONTAINED IN THE CONSULTANT GEOTECHNICAL REPORT ARE TO BE COMPLIED WITH AND ARE HEREBY MADE AN INTEGRAL PART OF THE GRADING SPECIFICATIONS AND NOTES.

    GEOTECHNICAL REPORT DATED: **04/27/2022**
    REPORT NUMBER: **10–61187PW REPORT #1**
    PREPARED BY: **ATLAS TECH CONSULTANTS LLC**

13. TEMPORARY EROSION CONTROL TO BE INSTALLED BETWEEN OCTOBER 1 AND APRIL 30. OBTAIN INSPECTOR OF RECORD'S APPROVAL OF THE PROCEDURES.
14. EXCAVATIONS FOR FOOTINGS REMOVAL OR UNDERGROUND UTILITIES CAPPING OR REMOVAL SHALL BE MADE IN ACCORDANCE WITH THE REGULATIONS OF THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY. ALL EXCAVATIONS SHALL BE STABILIZED WITHIN 30 DAYS OF INITIAL EXCAVATION. ALL TEMPORARY EXCAVATIONS SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS
15. NO FILL TO BE PLACED UNTIL THE DISTRICT INSPECTOR OF RECORD HAS INSPECTED AND APPROVED THE BOTTOM OF EXCAVATION.
16. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED **12/03/2021 BY HENNON SURVEYING AND MAPPING, INC.**
17. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.
18. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
19. DIMENSIONS INDICATED ARE IN FEET OR DECIMALS THEREOF.
20. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 (800–227–2600) TWO DAYS PRIOR TO ANY EXCAVATION.
21. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
22. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ANY PUBLIC UTILITY LINES WITH THEIR RESPECTIVE OWNERS. SEPARATE PERMITS MAY BE REQUIRED.
23. THE CONTRACTOR SHALL REPLACE ANY CAMPUS IMPROVEMENTS DAMAGED DURING CONSTRUCTION AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER. MATCH EXISTING MATERIALS, SURFACE TREATMENT, AND COLORS. SAME REQUIREMENTS SHALL APPLY TO PERMANENT UTILITY TRENCH RESURFACING.
24. TEMPORARY STOCKPILING OF EXCESS MATERIAL ON SITE, INCLUDING PROTECTION AND EROSION CONTROL, SHALL BE APPROVED BY THE OWNER AND THE CONSTRUCTION MANAGER, PRIOR TO EXCAVATION.
25. CONTRACTOR SHALL PAY FOR AND OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR THE DISCHARGE OF STORM WATER RUNOFF AND/OR GROUNDWATER THAT MAY BE NECESSARY TO ACCOMPLISH THE EXCAVATIONS AND DEMOLITION WORK SHOWN ON THESE PLANS.
19. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 6' TALL AND SHALL HAVE A DUST/VISION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200–POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. WORK AREA AND STAGING AREA SHALL BE SECURE AT ALL TIMES.

NOTICE TO CONTRACTORS:

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING AND DRAINAGE WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.
2. EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM REVIEW OF RECORDS OR PER DATA PROVIDED BY "UTIL–LOCATE" UNDERGROUND UTILITIES SURVEYS PROVIDER, SELECTED AND HIRED DIRECTLY BY **CCCD**. THE UTILITIES LOCATING SURVEY DATA IS OFTEN INCOMPLETE AND NOT FULLY RELIABLE DUE TO LOCATING TECHNOLOGY LIMITATIONS. CONTRACTOR IS ADVISED TO POTHOLE DOWNSTREAM P.O.C. TO VERIFY DEPTH AND SIZE OF (E) UTILITIES.
3. THE CONTRACTOR FURTHER SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT
4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND NOT TO THE EXPENSE OF THE OWNER OR ENGINEER.
6. THE CONTRACTOR SHALL OBTAIN AN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER.
7. ALL CHANGES TO THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT SHALL BE DONE IN WRITING AND APPROVED BY THE ENGINEER OF RECORD AND **CCCD**. THE CIVIL E.O.R. SHALL NOT BE RESPONSIBLE, OR LIABLE FOR UNAUTHORIZED CHANGES OR USES OF THE CONSTRICTION DOCUMENTS.
8. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
9. SEE ARCHITECTURAL PLANS FOR ANY ADDITIONAL SITE DIMENSIONS THAT MAY NOT BE SHOWN ON THESE DRAWINGS.
16. CONTRACTOR TO REPLACE IN KIND DAMAGED LANDSCAPE AND/OR HARDSCAPE FEATURES OUTSIDE THE ESTABLISHED LIMIT OF WORK AT NO EXPENSE TO THE OWNERS, AND TO OWNER'S SATISFACTION.

ENVIRONMENTAL QUALITY NOTES:

A. IF SITE DEMOLITION OPERATIONS COVERED BY THESE PLANS SHALL EXTEND INTO, OR THROUGH, OR SHALL BE COMMENCED DURING THE PERIOD OF OCTOBER 1ST TO APRIL 30TH, THE CONTRACTOR WILL BE REQUIRED TO SUBMIT PLANS OF THE TEMPORARY EROSION CONTROL METHODS AND DEVICES THAT WILL BE USED IN CONNECTION WITH THE DEMOLITION OPERATIONS TO BE PERFORMED DURING THAT PERIOD. SAID PLANS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD ON OR BEFORE SEPTEMBER 15TH OR AT LEAST 30 DAYS BEFORE COMMENCING OPERATIONS AND SHALL BE APPROVED BY THEM BEFORE ANY GRADING IS PERFORMED DURING SAID PERIOD.

B. TEMPORARY EROSION CONTROL TO BE INSTALLED BETWEEN OCTOBER 15 AND MAY 15. OBTAIN DISTRICT'S INSPECTOR APPROVAL OF THE PROCEDURES.

C. GROUND WATERING SHALL BE REQUIRED DURING SITE DEMOLITION, PURSUANT TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 403.

D. ALL CLEARING, EARTH MOVING OR EXCAVATION ACTIVITIES SHALL CEASE DURING PERIODS WHEN WINDS EXCEED 15 MILES PER HOUR.

E. ALL MATERIALS TAKEN OFF–SITE SHALL BE EITHER SUFFICIENTLY WATERED OR SECURELY COVERED TO PREVENT EXCESSIVE AMOUNTS OF DUST.

F. ENGINES MUST BE MAINTAINED IN GOOD CONDITION ACCORDING TO MANUFACTURER'S SPECIFICATIONS. BOTH GRADING AND CONSTRUCTION ACTIVITIES ARE TO BE SCHEDULED TO EVEN OUT EMISSION PEAKS.

G. THE SITE SHALL BE FENCED TO REDUCE WIND–BLOWN DUST. MATERIALS NOT STORED BEHIND THE TEMPORARY FENCES SHALL BE COVERED. ALL STORED SOIL AND SAND SHALL BE COVERED OR TREATED WITH SOIL BINDERS, WHETHER INSIDE OR OUTSIDE THE TEMPORARY WALL. ALL DEBRIS SHALL BE CLEANED UP DAILY AND PUT IN A DUMPSTER WHICH SHALL HAVE A LID AND THE LID SHALL BE SECURED AT THE END OF THE DAY.

H. EVERY REASONABLE PRECAUTION SHALL BE TAKEN TO MINIMIZE FUGITIVE DUST EMISSIONS FROM BLASTING, WRECKING, EXCAVATION, OR CLEARING OF LAND AND SOLID WASTE DISPOSAL OPERATIONS.

I. ALL LOOSE SOIL AND DEBRIS SHALL BE SWEPT FROM ADJACENT ROADS AND WALKWAY AREAS UPON STARTING OPERATIONS, AND PERIODICALLY THEREAFTER DIRECTED BY THE INSPECTOR OF RECORD.

J. STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIAL SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT, OR WHEN THE INSPECTOR OF RECORD SO ORDERS.

K. EXCEPT WHEN THE INSPECTOR OF RECORD DIRECTS OTHERWISE, ALL REMOVABLE PROTECTIVE DEVICES REQUIRED SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE–DAY RAIN FORECAST EXCEEDS 40%, AND SHALL BE MAINTAINED DURING THE RAINY SEASON (OCTOBER 1 THROUGH APRIL 30).

L. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS AND DESILTING BASINS. AND ALL GRADED SLOPE

M. SURFACE PROTECTION MEASURES DAMAGED DURING A RAINSTORM SHALL ALSO BE IMMEDIATELY REPAIRED.

N. IN CASE OF EMERGENCY CALL: PCM3 AT (909) 592–0888

STORMWATER POLLUTION CONTROL:

STORMWATER POLLUTION CONTROL REQUIREMENTS FOR CONSTRUCTION ACTIVITIES – MINIMUM WATER QUALITY PROTECTION REQUIREMENTS FOR ALL CONSTRUCTION PROJECTS

CONSTRUCTION MEANS CONSTRUCTING, CLEARING, GRADING OR EXCAVATION THAT RESULT IN SOIL DISTURBANCE. CONSTRUCTION INCLUDES STRUCTURE TEARDOWN (DEMOLITION). IT DOES NOT INCLUDE ROUTINE MAINTENANCE TO MAINTAIN ORIGINAL LINE AND GRADE, HYDRAULIC CAPACITY, OR ORIGINAL PURPOSE OF FACILITY; EMERGENCY CONSTRUCTION ACTIVITIES REQUIRED TO IMMEDIATELY PROTECT PUBLIC HEALTH AND SAFETY; INTERIOR REMODELING WITH NO OUTSIDE EXPOSURE OF CONSTRUCTION MATERIAL OR CONSTRUCTION WASTE TO STORM WATER; MECHANICAL PERMIT WORK; OR SIGN PERMIT WORK. (ORDER NO. 01–182, NPDES PERMIT NO. CAS004001 – PART 5: DEFINITIONS)

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON–SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
3. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. NON–STORM WATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED ON THE PROJECT SITE.
5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTE ON–SITE UNTIL IT CAN BE APPROPRIATELY DISPOSED OF OR RECYCLED.
6. TRASH AND CONSTRUCTION –RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF STORM WATER AND DISPERSAL BY WIND.
7. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
8. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE PROVIDED TO RETAIN STORM WATER RUNOFF ON–SITE AND SHALL BE PROPERLY LOCATED TO COLLECT ALL TRIBUTARY SITE RUNOFF.
9. WHERE RETENTION OF STORM WATER RUNOFF ON–SITE IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, RUNOFF MAY BE CONVEYED TO THE STREET AND THE STORM DRAIN SYSTEM PROVIDED THAT AN APPROVED FILTERING SYSTEM IS INSTALLED AND MAINTAINED ON–SITE DURING THE CONSTRUCTION DURATION.
10. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
11. THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER BEST MANAGEMENT PRACTICES HANDBOOK, JANUARY 2003, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED)

EROSION CONTROL

- SS1 – SCHEDULING
- SS2 – PRESERVATION OF EXISTING VEGETATION
- SS3 – HYDRAULIC MULCH
- SS4 – HYDROSEEDING
- SS5 – SOIL BINDERS
- SS6 – STRAW MULCH
- SS7 – GEOTEXTILES & MATS
- SS8 – WOOD MULCHING
- SS9 – EARTH DIKES AND DRAINAGE SWALES
- SS10– VELOCITY DISSIPATION DEVICES

TEMPORARY SEDIMENT CONTROL

- SC1 – SILT FENCE
- SC2 – SEDIMENT BASIN
- SC6 – GRAVEL BAG BERM
- SC7 – STREET SWEEPING AND VACUUMING
- SC8 – SANDBAG BARRIER
- SC9 – STRAW BALE BARRIER
- SC10– STORM DRAIN INLET PROTECTION

WIND EROSION CONTROL

- WE1 – WIND EROSION CONTROL

EQUIPMENT TRACKING CONTROL

- TC1 – STABILIZED CONSTRUCT. ENTRANCE EXIT
- TC3 – ENTRANCE/OUTLET TIRE WASH

NON–STORMWATER MANAGEMENT

- NS1 – WATER CONSERVATION PRACTICES
- NS3 – PAVING AND GRINDING OPERATIONS
- NS6 – ILLICIT CONNECTION /DISCHARGE
- NS7 – POTABLE WATER/IRRIGATION
- NS8 – VEHICLE AND EQUIPMENT CLEANING
- NS10 – VEHICLE AND EQUIPMENT MAINTENANCE
- NS12 – CONCRETE CURING
- NS13 – CONCRETE FINISHING
- NS14 – MATERIAL AND EQUIPMENT USE
- NS16 – TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL

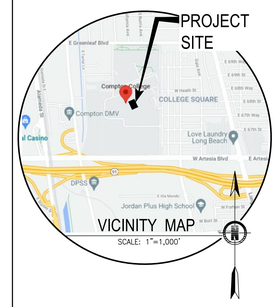
- WM1 – MATERIAL DELIVERY AND STORAGE
- WM2 – MATERIAL USE
- WM3 – STOCKPILE MANAGEMENT
- WM4 – SPILL PREVENTION AND CONTROL
- WM5 – SOLID WASTE MANAGEMENT
- WM6 – HAZARDOUS WASTE MANAGEMENT
- WM7 – CONTAMINATION SOIL MANAGEMENT
- WM8 – CONCRETE WASTE MANAGEMENT
- WM9 – SANITARY/SEPTIC WASTE MANAGEMENT
- WM10 – LIQUID WASTE MANAGEMENT

CALIFORNIA CODE OF REGULATIONS

APPLICABLE STATE CODES AND STANDARDS

PART 1	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2	2022 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH 2019 CALIFORNIA AMENDMENTS)
PART 3	2022 CALIFORNIA ELECTRICAL CODE, TITLE 24, C.C.R. (2008 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA WITH 2022 CALIFORNIA AMENDMENTS)
PART 4	2022 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO WITH 2013 CALIFORNIA AMENDMENTS)
PART 5	2022 CALIFORNIA PLUMBING CODE, TITLE 24, C.C.R. (2021 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO WITH 2022 CALIFORNIA AMENDMENTS)
PART 9	2022 CALIFORNIA FIRE CODE, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL WITH 2022 CALIFORNIA AMENDMENTS)
PART 12	2022 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 C.C.R.

INDEX OF DRAWINGS



BENCHMARK:

ADD 0.08 FEET TO ELEVATIONS SHOWN HEREON TO EQUAL THE LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS 2005 ADJUSTMENT OF THE NORTH AMERICAN DATUM OF 1988 (NAVD88), PER THE FOLLOWING LOS ANGELES COUNTY BENCHMARKS:

GARDENA QUAD, 2005 ADJUSTMENT:

LA COUNTY DPW BM Y12223 2005 ADJ.
ELEV.=63.473' NAVD88
ELEV.=63.39 PER THIS SURVEY (HENNON & ARIAL MAP)

L&DPW TAG IN EAST CURB 1 FT. NORTH OF BEGINNING OF CURB RETURN AT NORTHEAST CORNER OF ALAMEDA STREET (EAST BARREL) AND GREENLEAF BL.

LA COUNTY DPW BM Y12222 2005 ADJ.
ELEV.=63.496' NAVD88
ELEV.=63.42' PER THIS SURVEY (HENNON & ARIAL MAP)

L&DPW TAG IN EAST CURB 1 FT. SOUTH OF BEGINNING OF CURB RETURN AT SOUTHEAST CORNER ALAMEDA STREET (EAST BARREL) & GREENLEAF BL.

ANY USER OF ELEVATIONS AND/OR COORDINATES SHOWN HEREON FOR THE CONTROL OF CONSTRUCTION, SHALL VERIFY AT LEAST 3 POINTS SHOWN HEREON, FOR MATHEMATICAL CONSISTENCY PRIOR TO SUCH USE.

FOR CONSTRUCTION

IMPORTANT NOTICE

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STATE OF CALIFORNIA

JOHN J. ALAJOV RHYTON ENGINEERING
RCE 56393 DATE 06/12/2024

AGENCY APPROVAL

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

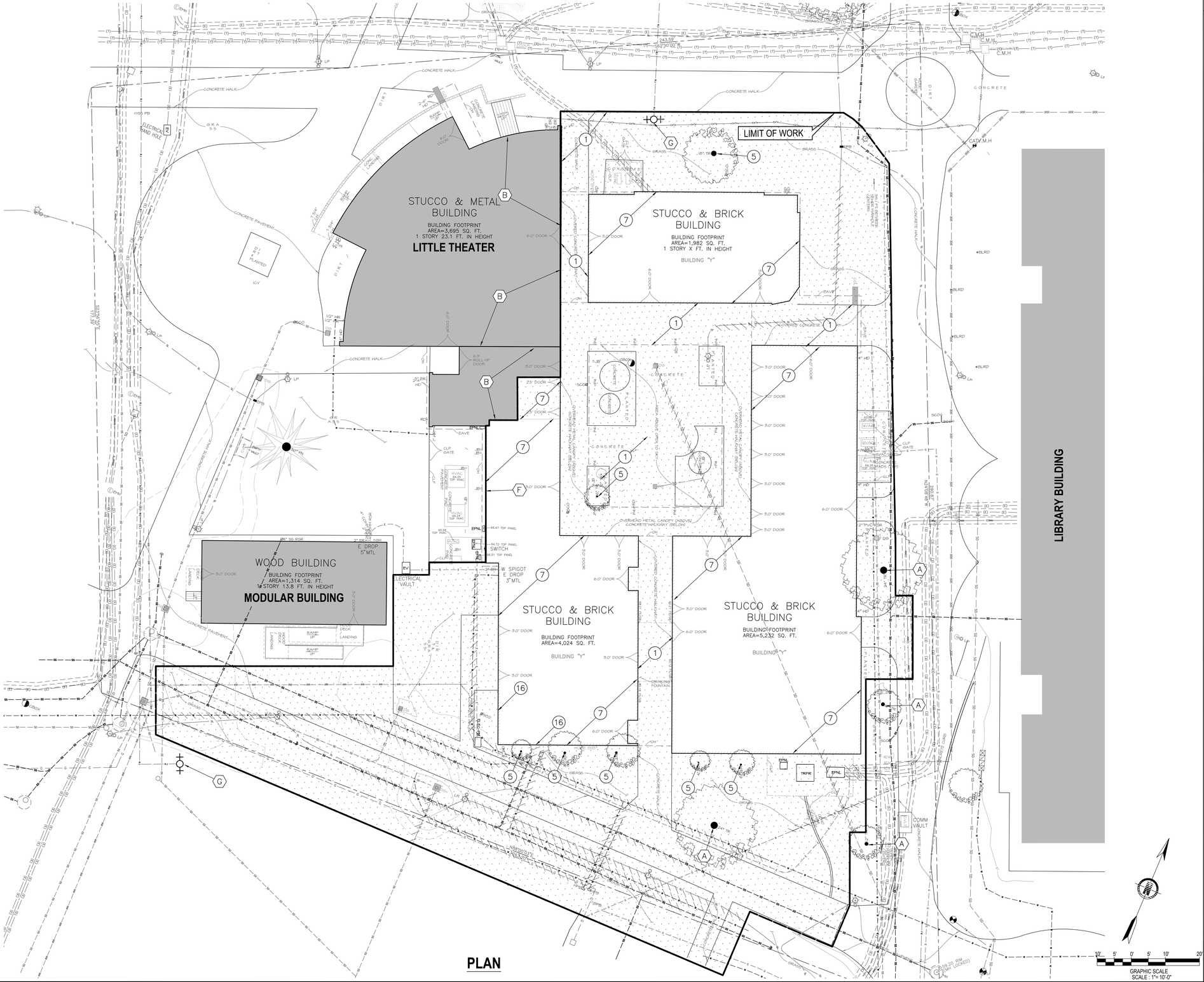
ISSUE DESCRIPTION

	DSA SUBMITTAL	01.12.2024

C–0.01.dwg Plotted On Jun 14, 2024–12:14pm by Rhyton Civil

SHEET TITLE
Title Sheet and General Notes

SHEET NUMBER
C0.01



PLAN

GENERAL DEMOLITION NOTES:

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR SELECTIVE SITE DEMOLITION WORK. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
2. UTILITIES: THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA, PROVIDED BY THE OWNER OR THE UTILITY PURVEYORS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE PUBLIC UTILITY COMPANIES PRIOR TO BEGINNING WORK OR POT HOLING TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER SHOWN HEREON OR NOT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OR PROTECTION OF ANY EXISTING UTILITY LINES NOT SLATED FOR REMOVAL BY THESE PLANS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF THE SITE AND SHALL REMOVE AND DISPOSE OF ALL STRUCTURES ABOVE AND OR BELOW GROUND, INCLUDING FOUNDATIONS, UNLESS NOTED OTHERWISE.
6. SHOULD HAZARDOUS MATERIALS ARE ENCOUNTERED, THEY SHALL BE HANDLED AND REMOVED AS REQUIRED BY LOCAL AND/OR STATE LAWS AT NO COST TO THE OWNER.
7. EXISTING ELECTRICAL LINES SHALL BE TEMPORARILY REROUTED AROUND THE LIMITS OF AFFECTED AREAS. ALL TEMPORARY WIRING CONNECTIONS SHALL BE TERMINATED IN AN ABOVE GROUND RISER, AND CLEARLY MARKED.
8. THE CONTRACTOR SHALL EXERCISE DUE CARE SO TO AVOID DAMAGE TO THE EXISTING HARDSCAPE IMPROVEMENTS, UTILITY FACILITIES, AND LANDSCAPING FEATURES THAT ARE NOT SPECIFICALLY SLATED TO BE REMOVED BY THESE PLANS. ALL JOIN LINES SHALL BE SAWCUT AT A NEAT, STRAIGHT LINE, AS INDICATED ON THE PLANS, OR PAVEMENTS SHALL BE REMOVED TO THE NEAREST JOINT. THE CUT EDGE SHALL BE PROTECTED FROM CRUSHING, AND ALL BROKEN EDGES SHALL BE RE-CUT PRIOR TO JOINING.
9. ANY EXISTING IMPROVEMENTS THAT WOULD CONFLICT WITH THE PROPOSED CONSTRUCTION, INCLUDING BUT NOT LIMITED TO; BUILDING FOUNDATIONS, UTILITIES AND APPURTENANCES, TREES AND ROOT BALLS, SIGNS, AND STRUCTURES, ETC. SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE INDICATED HEREIN, OR IF DIRECTED DIFFERENTLY BY THE OWNER'S CONSTRUCTION MANAGER.
10. CONTRACTOR SHALL PROTECT THE EXISTING CURBS OR OR EXISTING PERIMETER FENCES AND WALLS FROM DAMAGES CAUSED BY THE CONSTRUCTION OPERATIONS. ANY PUBLIC CURBS DAMAGED DURING THE OPERATIONS SHALL BE REPLACED AT NO COST TO THE OWNER. ANY EXISTING CURB IDENTIFIED AS POTENTIALLY NEEDING TO BE REPLACED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER OR THE OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
11. CONTRACTOR SHALL PERFORM AND BE RESPONSIBLE FOR CLEARING AND GRUBBING OPERATIONS AS NECESSARY TO COMPLETE THE WORK, INCLUDING PROPER DISPOSAL OF THE REMOVED MATERIALS, AND SHALL BEAR THE ASSOCIATED COSTS.

LEGEND:

- LIMIT OF WORK LINE
- SAWCUT LINE
- REMOVE EXIST AC PVMT & BASE
- AC PVMT REMOVAL AND TRENCH RESURFACING
- REMOVE EXIST CONC PVMT & BASE

DEMOLITION KEY NOTES:

1. REMOVE EXISTING PAVEMENTS INTERFERING WITH THE PROPOSED CONSTRUCTION AND CLEAR THE SITE. REUSE AND RECYCLE MATERIALS AS REQUIRED.
2. REMOVE EXISTING CONCRETE FLATWORK AND BASE. SAWCUT TO THE NEAREST JOINT.. REUSE AND RECYCLE MATERIALS AS REQUIRED.
3. REMOVE EXISTING WOOD TRELLIS STRUCTURE AND FOOTINGS.
4. REMOVE EXISTING CONCRETE CURB.
5. REMOVE OR RELOCATE EXISTING TREE. REFER TO LANDSCAPE DRAWINGS FOR DETAILS.
6. REMOVE EXISTING GUARD POSTS AND FOOTINGS.
7. REMOVE EXISTING BUILDINGS AND FOOTINGS PER SEPARATE PLAN.
8. REMOVE EXISTING CONCRETE GUTTER AND BASE.
9. REMOVE EXISTING FENCE, GATES, AND FOOTINGS.
10. REMOVE EXISTING CMU FENCE AND FOOTINGS.
11. REMOVE EXISTING GAS METER OR VALVE.
12. REMOVE EXISTING STORM DRAIN INLET AND GRATE.
13. REMOVE EXISTING SHED.
14. REMOVE EXISTING ELECTRICAL PULLBOX.
15. REMOVE EXISTING SIGNAGE, POST, AND FOOTINGS.
16. LOCATE EXISTING SANITARY SEWER HOUSE CONNECTIONS AT PERIMETER OF THE SITE. CUT AND CAP THOSE THAT ARE NOT SLATED TO BE REUSED.

GENERAL NOTE: ALL EXISTING UTILITIES HEREON ARE SHOWN PER AVAILABLE RECORDS OR PER INFORMATION PROVIDED BY "UTIL_LOCATE" UNDERGROUND UTILITIES LOCATION AND SURVEY PROVIDER, HIRED DIRECTLY BY COMPTON COLLEGE. THE UNDERGROUND UTILITIES SURVEY DATA IS USUALLY INCOMPLETE AND NOT FULLY RELIABLE DUE TO THE LIMITATIONS OF THE IMPLEMENTED LOCATING TECHNOLOGY. CONTRACTOR IS ADVISED TO POTHOLE AT ALL DOWNSTREAM POINTS OF CONNECTION, TO VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UNDERGROUND UTILITY MAINS, AND INFORM THE CIVIL ENGINEER OF RECORD ABOUT ANY FOUND DISCREPANCIES, SO TO RECEIVE DIRECTION PRIOR TO CONSTRUCTION.

SALVAGE KEY NOTES:

- A. PROTECT IN PLACE AND MAINTAIN THE INTEGRITY OF EXISTING TREE. SEE LANDSCAPING PLANS.
- B. PROTECT IN PLACE AND MAINTAIN THE INTEGRITY OF EXISTING BUILDING WALL AND FOOTING.
- C. PROTECT IN PLACE AND MAINTAIN THE INTEGRITY OF EXISTING DRAIN INLET BOX.
- D. PROTECT IN PLACE AND MAINTAIN THE INTEGRITY OF OVERHEAD POWER LINE AND POLE AND GUY WIRE.
- E. PROTECT AND MAINTAIN INTEGRITY OF CONCRETE PAVEMENT.
- F. PROTECT IN PLACE AND MAINTAIN INTEGRITY OF EXISTING UTILITY ENCLOSURE CMU FENCE.
- G. PROTECT IN PLACE AND MAINTAIN INTEGRITY OF EXISTING FIRE HYDRANT, SHUTOFF VALVE, AND PIPE.

UTILITIES DEMOLITION LEGEND:

- EXIST. STORM DRAIN TO BE REMOVED/RELOCATED
- EXIST. GAS LINE TO BE REMOVED/RELOCATED
- EXIST. SANITARY SEWER LINE TO BE REMOVED/RELOCATED
- EXIST. DOMESTIC/FIRE WATER LINE TO BE REMOVED/RELOCATED
- EXIST. ELECTRICAL LINE TO BE REMOVED/RELOCATED
- EXIST. TELECOM LINE TO BE REMOVED/RELOCATED

FOR CONSTRUCTION

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FOR RHYTON ENGINEERING

AGENCY APPROVAL

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

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ISSUE DESCRIPTION

	DSA SUBMITTAL	01.12.2024

SHEET TITLE
SELECTIVE SITE DEMOLITION PLAN

SHEET NUMBER
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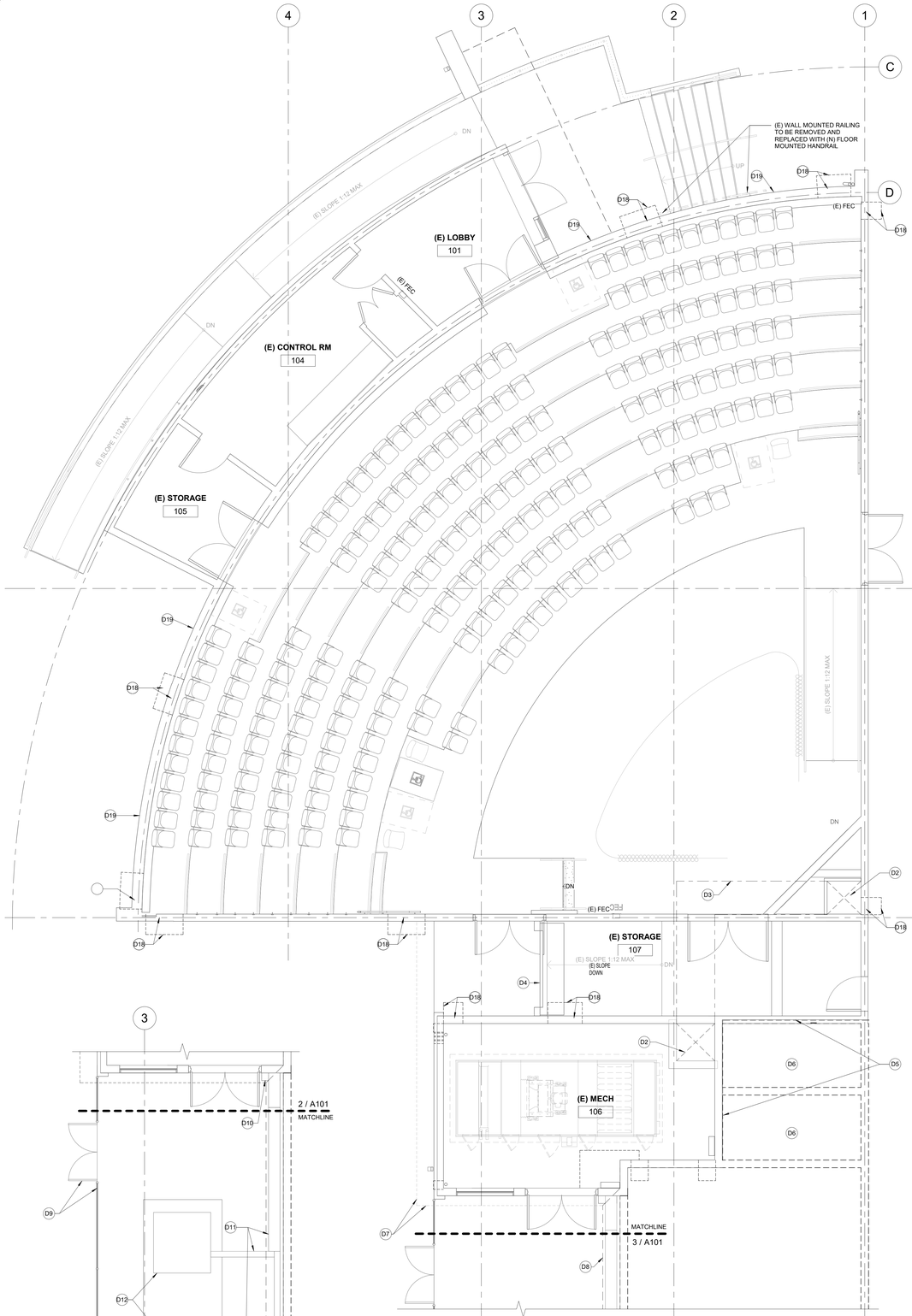
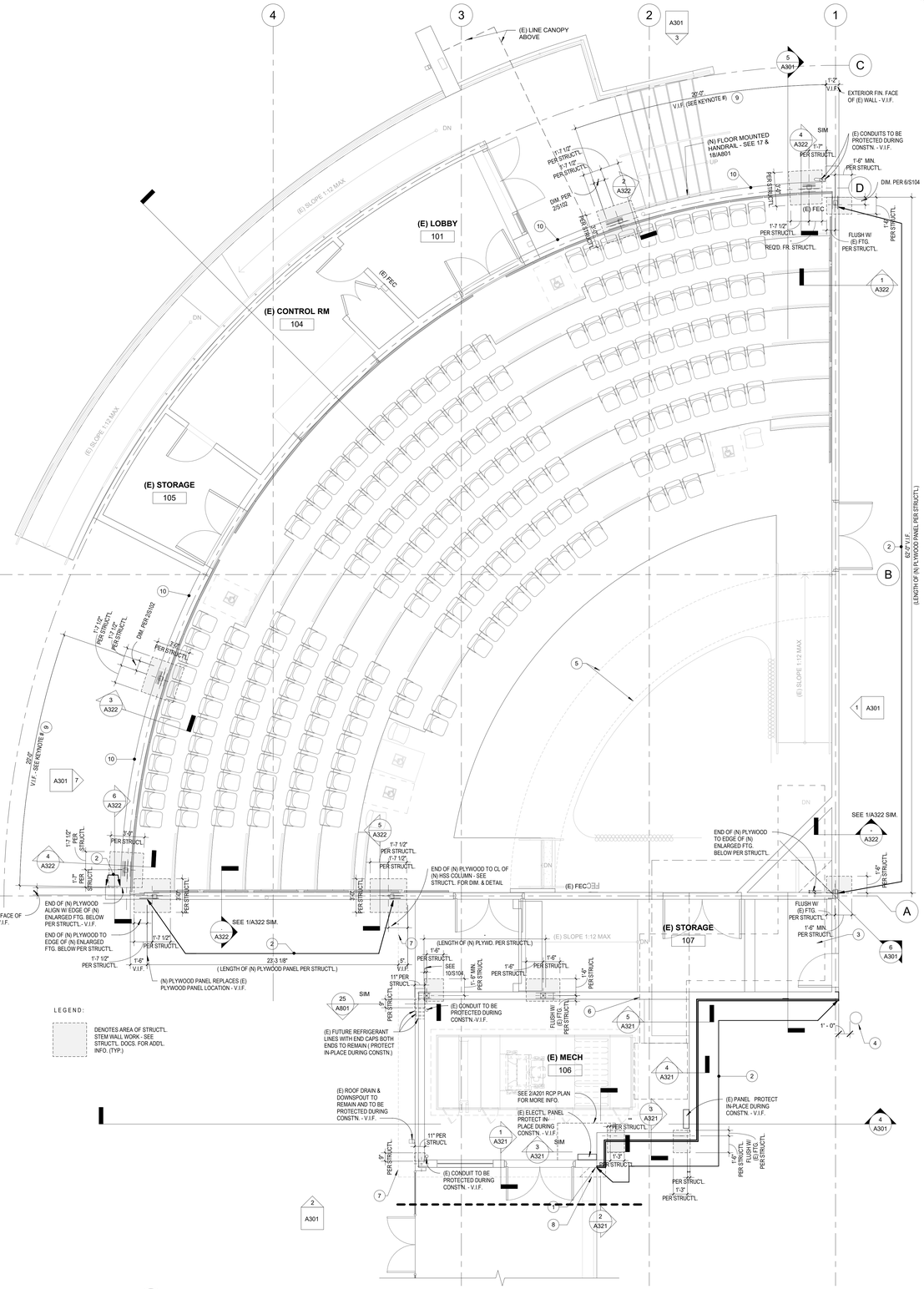


2 FLOOR PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"

3 MECHANICAL YARD PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



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

DEMOLITION PLAN KEYNOTES

- D1 NOT USED
- D2 (E) FLOOR OPENING TO REMAIN.
- D3 (E) UNDERGROUND AIR DUCT TUNNEL TO REMAIN.
- D4 (E) ROLL-UP DOOR TO REMAIN.
- D5 REMOVE FINISHES. WALL STUDS TO REMAIN.
- D6 CAP IN PLACE EXISTING ELECTRICAL AND PLUMBING STUB UP IN EXISTING WALL TO REMAIN, PATCH AND REPAIR WALL (E) DAMAGED WALL SUBSTRATE TO PREPARE FOR RECEIVING (N) FINISH INDICATED ON PLAN.
- D7 LINE OF EXISTING CORNICE ABOVE.
- D8 LINE OF CORNICE ABOVE TO BE DEMOLISHED.
- D9 (E) CHAINLINK FENCE AND GATE TO REMAIN.
- D10 (E) ELECTRICAL BOX TO REMAIN, PROTECT DURING DEMOLITION.
- D11 (E) REFRIGERANT PIPING WITHIN DUCT ENCLOSURE AND FLOOR ANCHORAGE TO REMAIN, PROTECT DURING DEMOLITION.
- D12 (E) MECHANICAL UNITS TO REMAIN.
- D13 (E) PADS TO REMAIN.
- D14 (E) CONDENSER UNIT TO BE DEMOLISHED INCLUDING ASSOCIATED REFRIGERANT PIPING AND WALL SUPPORT ASSEMBLY.
- D15 (E) FAN COIL PANEL TO BE REMOVED.
- D16 (E) TRANSFORMER TO REMAIN, PROTECT DURING DEMOLITION.
- D17 (E) DISCONNECT SWITCH AND SUPPORT ASSEMBLY TO REMAIN, PROTECT DURING DEMOLITION.
- D18 (E) PART. STEM WALL / (E) PART. SLAB ON-GRADE / CONCRETE SLAB TO BE DEMOLISHED / REMOVED
- D19 (E) METAL SIDINGS INCLUDING (E) 2X WOOD STRIPPING TO BE REMOVED

FLOOR PLAN KEYNOTES

1. PATCH AND REPAIR (E) PLASTER AFTER REMOVING WALL.
2. (N) EXTERIOR PLASTER FINISH TO MATCH ADJACENT (E) FINISH.
3. (N) OVERHEAD AIR DUCT PER MECH.
4. RELOCATED EMERGENCY BLUEPHONE.
5. (E) SOFFIT ABOVE.
6. (N) OPENING IN WALL FOR RELOCATED AIR DUCT.
7. (E) LINE OF CORNICE ABOVE.
8. EXTEND (E) CORNICE ABOVE. REFER TO 21 / A801
9. (N) PLYWOOD PANEL REPLACES (E) PLYWOOD PANEL LOCATION PER STRUCTURAL - V.I.F.
10. (N) STEEL SIDING (MORIN-MATRIX SERIES PANELS-MX1.0 20GA. MIN. STEEL -COLOR TO MATCH (E) METAL SIDING)(CCRR-0499)

FLOOR PLAN LEGEND - DEMOLITION

- (HALF-TONED) EXISTING WALL TO REMAIN
- (HALF-TONED) EXISTING DOOR TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING DOOR TO BE REMOVED

LEGEND :
DENOTES AREA OF STRUCT'L. STEM WALL WORK - SEE STRUCT'L. DOCS. FOR ADD'L. INFO. (TYP.)

GENERAL NOTES:
1. REMOVE EXISTING RESTROOM WALL AND FLOOR FINISHES. PATCH AND REPAIR EXISTING DAMAGE WALL SUBSTRATE TO PREPARE FOR RECEIVING NEW FINISH INDICATED ON PLAN.
2. CAP IN PLACE EXISTING ELECTRICAL AND PLUMBING STUB UP IN EXISTING WALL TO REMAIN, PATCH AND REPAIR WALL PER NOTE 1.
3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL MECHANICAL YARD INFORMATION.
4. RESTORE (E) ACOUSTICAL SEALANT AND BATT INSULATION WHERE IMPACTED BY THE SCOPE OF WORK.

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SHEET TITLE
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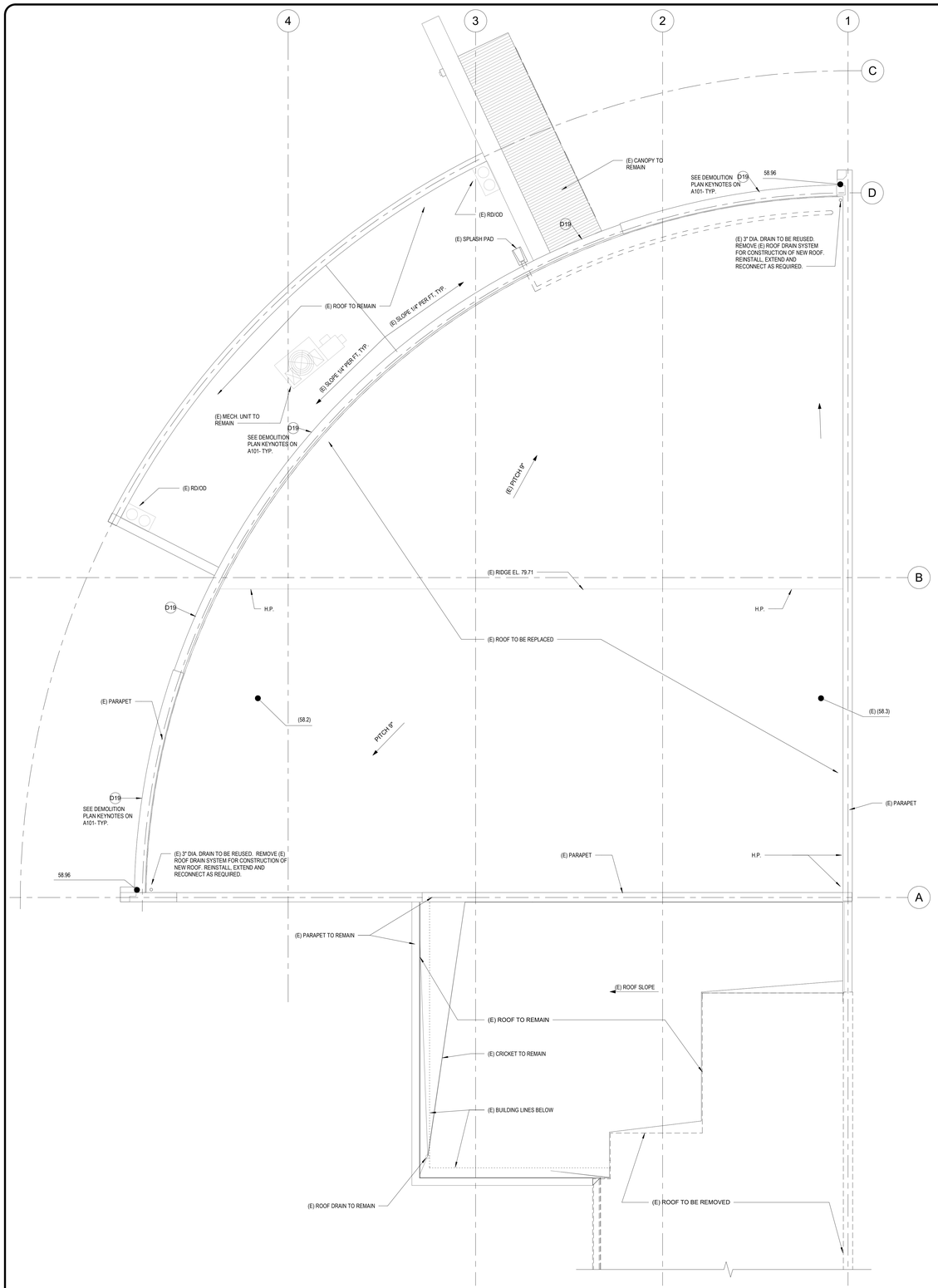
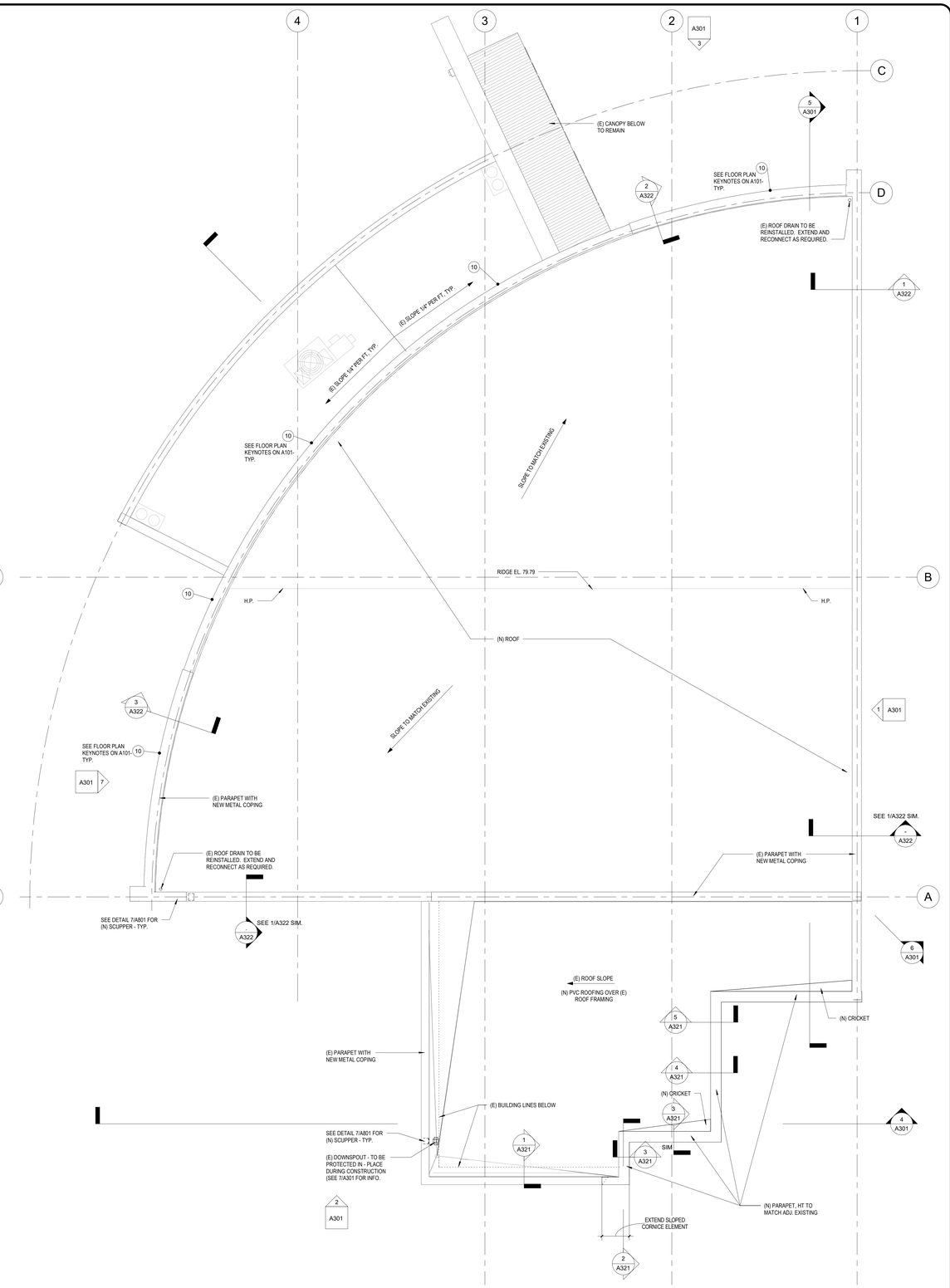


2 ROOF PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



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

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LICENSED ARCHITECT HRAZTAN FEYZIYAN 26719 RENEWAL DATE 04/30/25 STATE OF CALIFORNIA

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

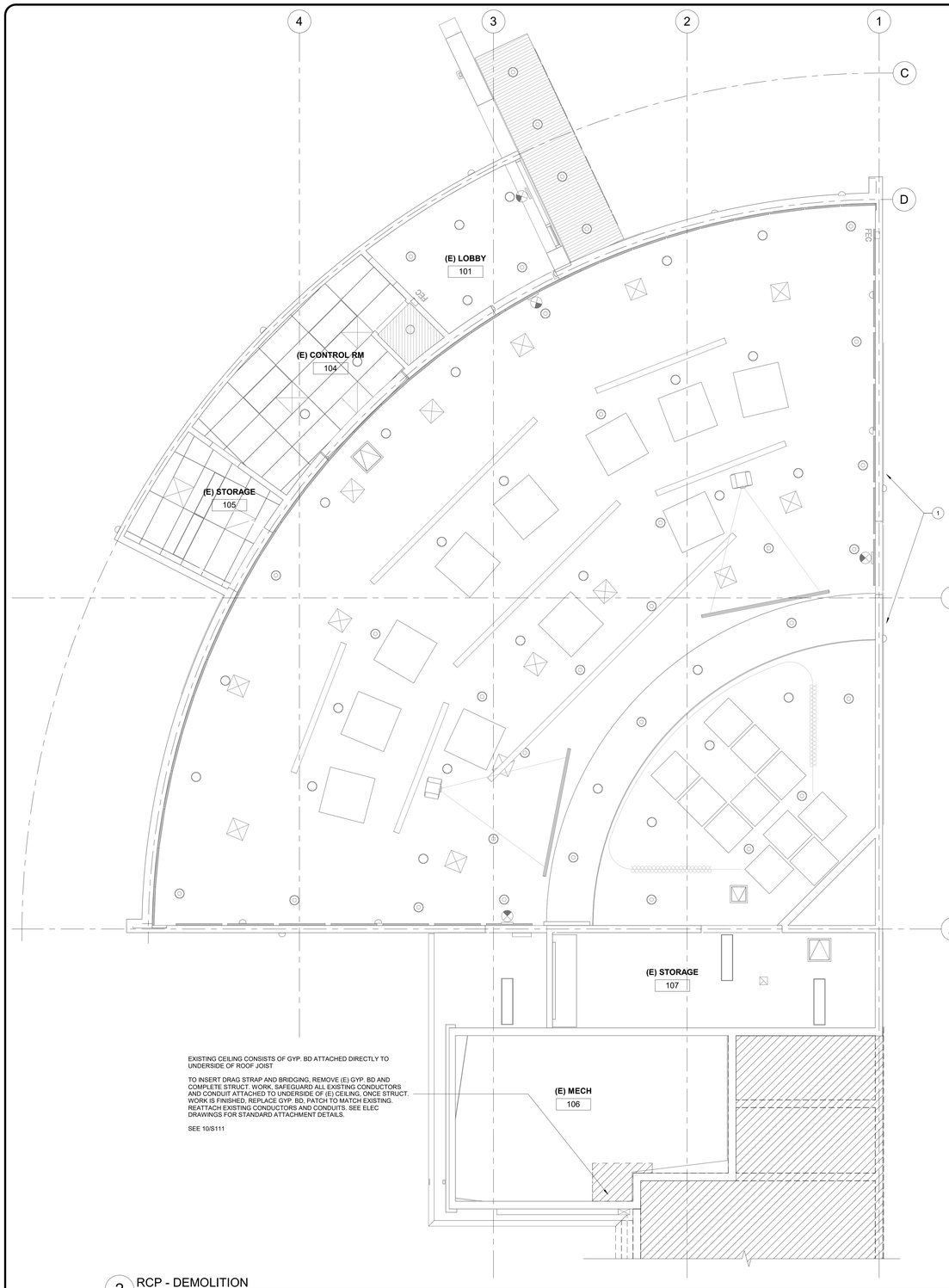
1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

ISSUE DESCRIPTION

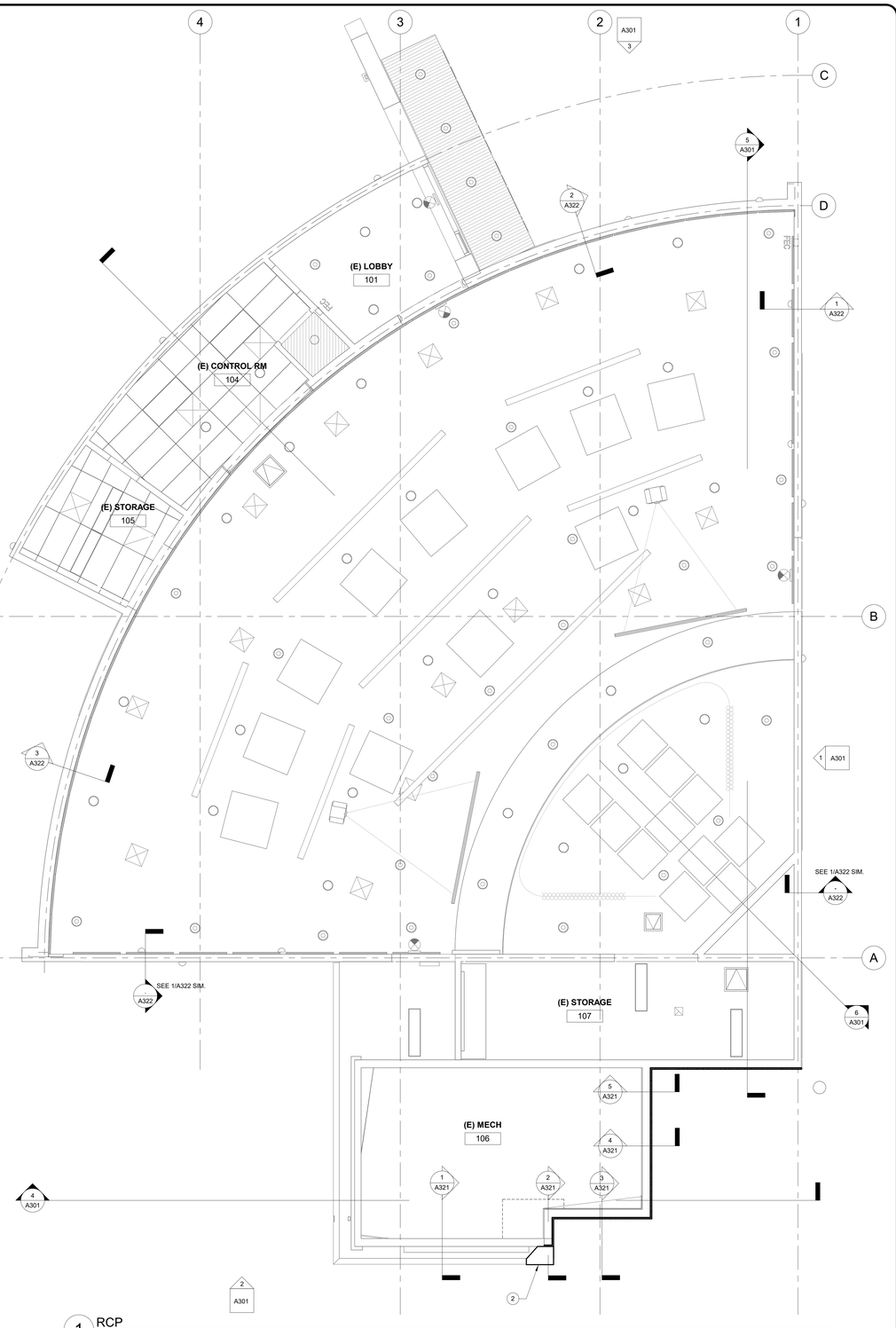
DSA SUBMITTAL	01.12.2024

SHEET TITLE
ROOF PLANS

SHEET NUMBER
A121



2 RCP - DEMOLITION
SCALE: 1/4" = 1'-0"



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

EXISTING CEILING CONSISTS OF GYP. BD ATTACHED DIRECTLY TO UNDERSIDE OF ROOF JOIST

TO INSERT DRAG STRAP AND BRIDGING, REMOVE (E) GYP. BD AND COMPLETE STRUCT. WORK, SAFEGUARD ALL EXISTING CONDUCTORS AND CONDUIT ATTACHED TO UNDERSIDE OF (E) CEILING, ONCE STRUCT. WORK IS FINISHED, REPLACE GYP. BD, PATCH TO MATCH EXISTING. REATTACH EXISTING CONDUCTORS AND CONDUITS. SEE ELEC DRAWINGS FOR STANDARD ATTACHMENT DETAILS.

SEE 10/S111

CEILING KEYNOTES

1. LIGHT FIXTURES TO BE PROTECTED DURING CONSTRUCTION AND REMAIN IN PLACE.
2. EXTEND (E) CORNICE. REFER TO 21 / A801
2. IF ANY WORK IS DONE TO EXISTING CEILING, PATCH TO MATCH EXISTING.

RCP LEGEND

AREA TO BE DEMOLISHED.
SEE SHEET G003 FOR EXTENT.

(E) EXISTING LIGHT FIXTURES TO REMAIN IN PLACE, U.O.N.
SEE ELECTRICAL DRAWINGS.

(E) EXISTING MECHANICAL ELEMENTS TO REMAIN IN PLACE, U.O.N.
SEE MECHANICAL DRAWINGS.

(E) ACCESS PANEL

NOTE:
1. REMOVE EXISTING RESTROOM WALL AND FLOOR FINISHES, PATCH AND REPAIR EXISTING DAMAGE WALL SUBSTRATE TO PREPARE FOR RECEIVING NEW FINISH INDICATED ON PLAN.
2. CAP IN PLACE EXISTING ELECTRICAL AND PLUMBING STUB UP IN EXISTING WALL TO REMAIN, PATCH AND REPAIR WALL PER NOTE 1.

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1111 EAST ARTESIA BLVD,
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ISSUE DESCRIPTION

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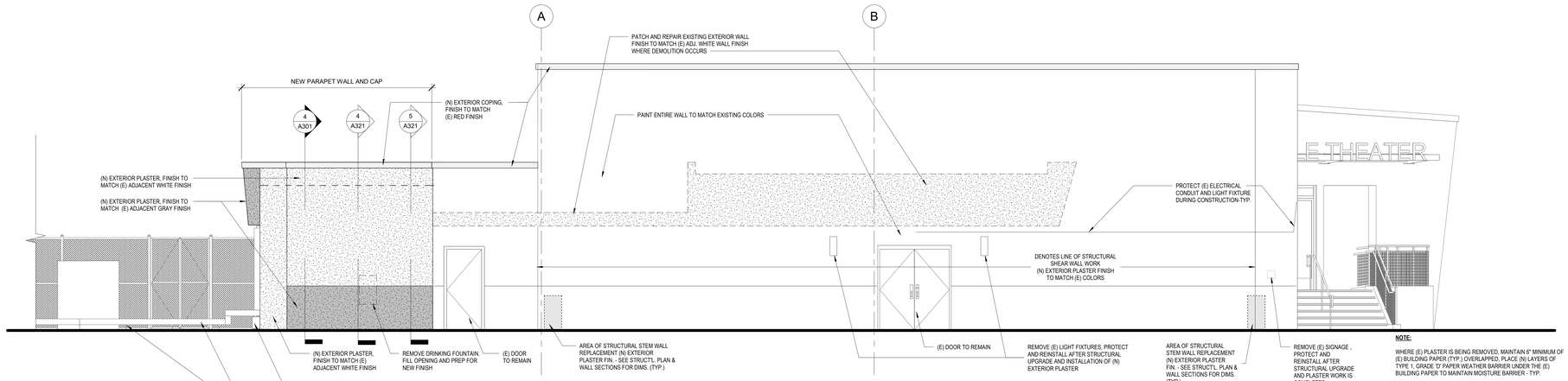
SHEET TITLE

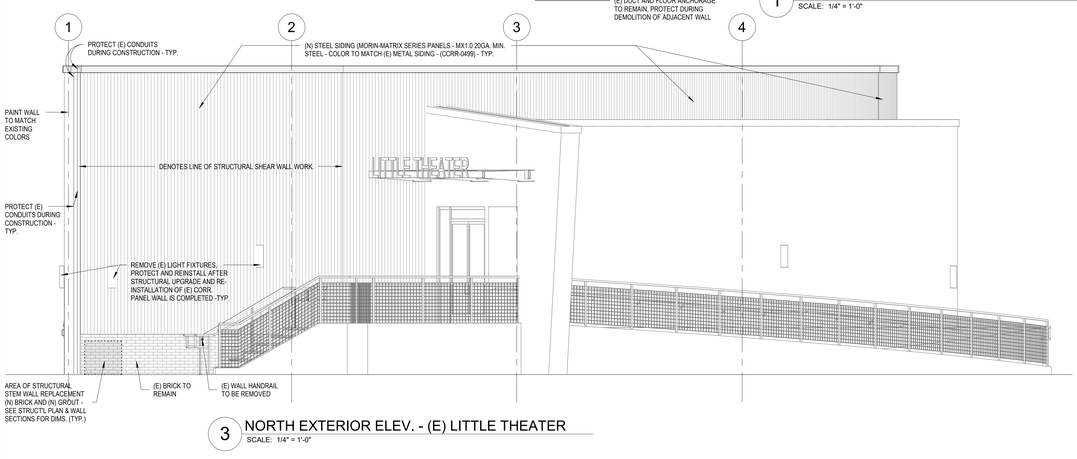
REFLECTED CEILING PLANS

SHEET NUMBER

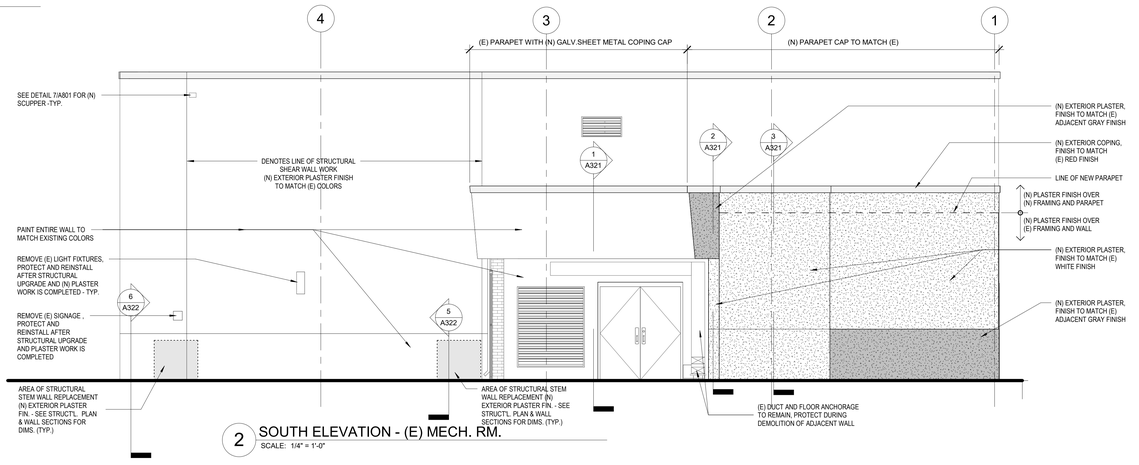
A201



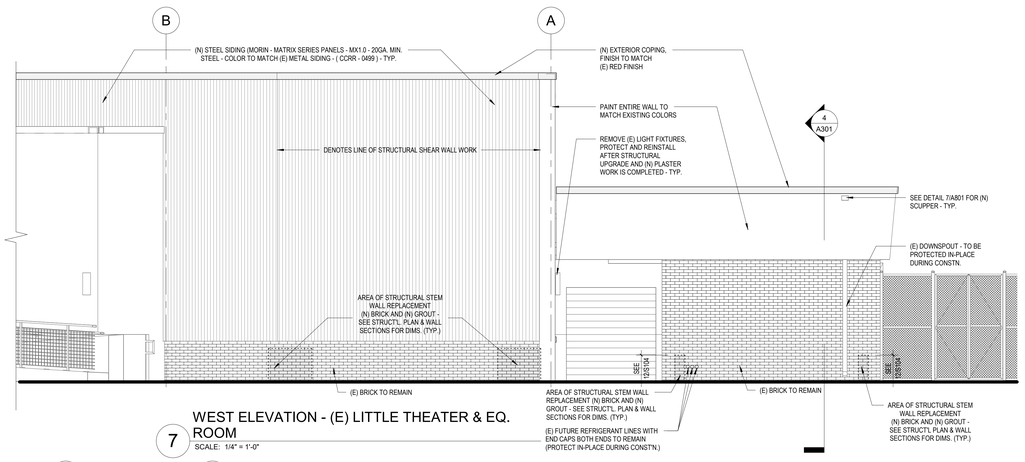
1 EAST ELEVATION - (E) LITTLE THEATER & EQ. ROOM
SCALE: 1/4" = 1'-0"



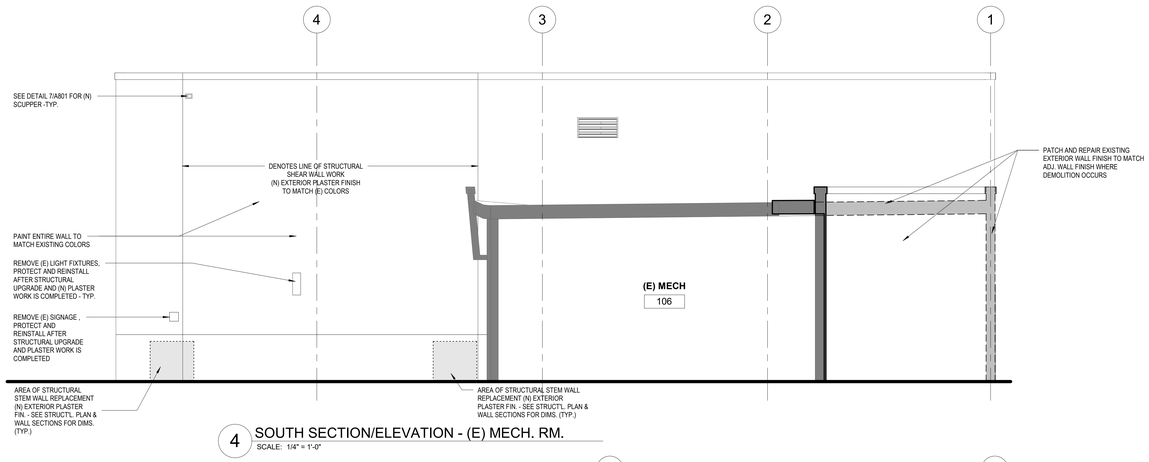
3 NORTH EXTERIOR ELEV. - (E) LITTLE THEATER
SCALE: 1/4" = 1'-0"



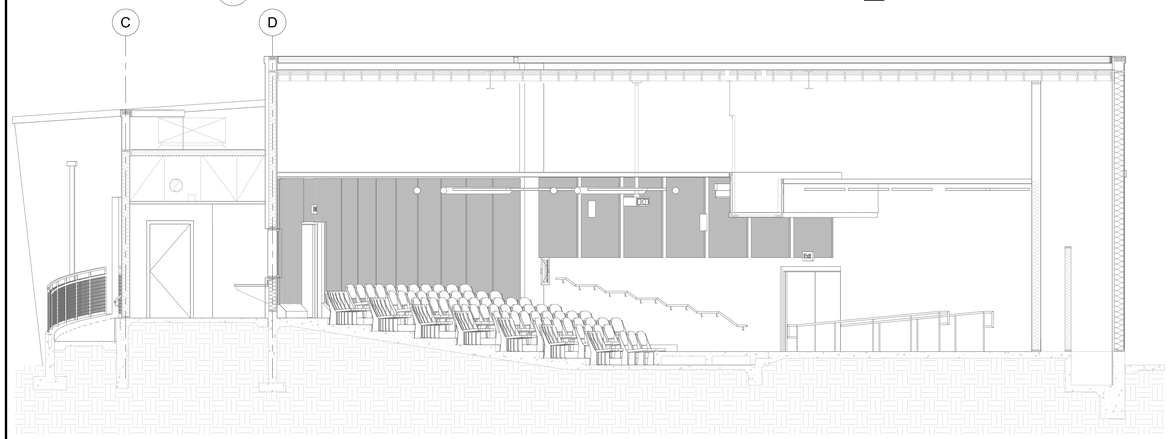
2 SOUTH ELEVATION - (E) MECH. RM.
SCALE: 1/4" = 1'-0"



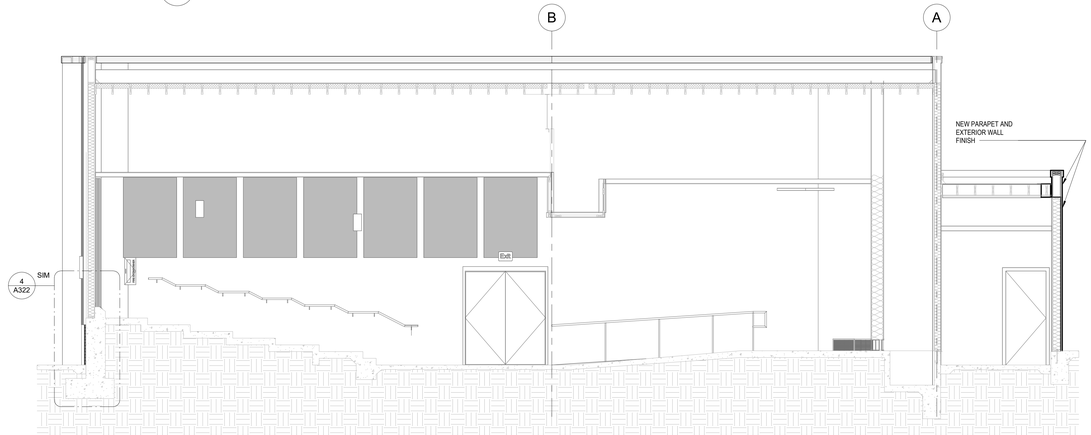
7 WEST ELEVATION - (E) LITTLE THEATER & EQ. ROOM
SCALE: 1/4" = 1'-0"



4 SOUTH SECTION/ELEVATION - (E) MECH. RM.
SCALE: 1/4" = 1'-0"



6 CROSS SECTION AT (E) THEATER
SCALE: 1/4" = 1'-0"



5 CROSS SECTION AT (E) SEATING AISLE
SCALE: 1/4" = 1'-0"

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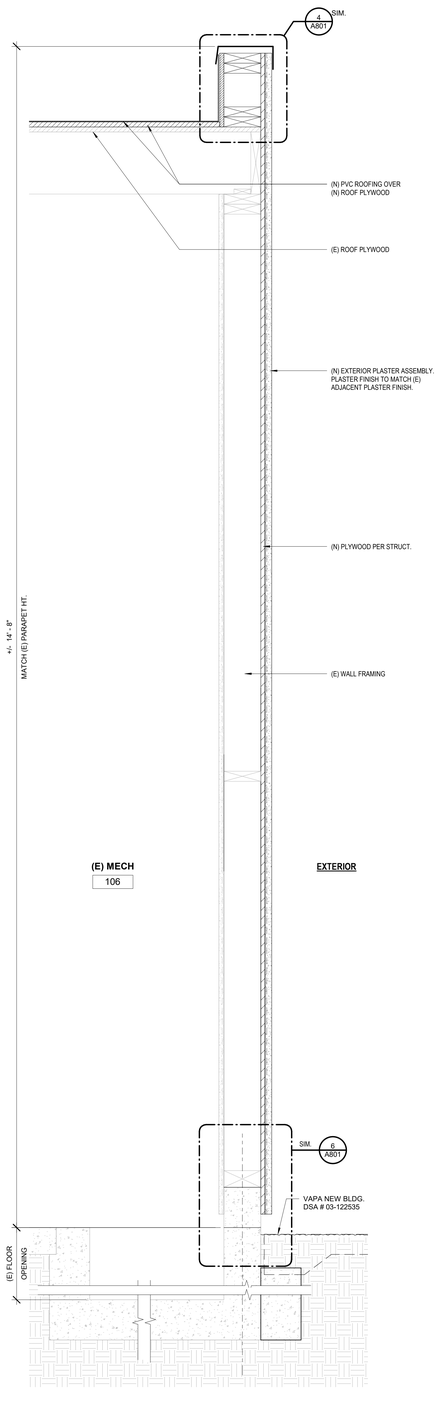
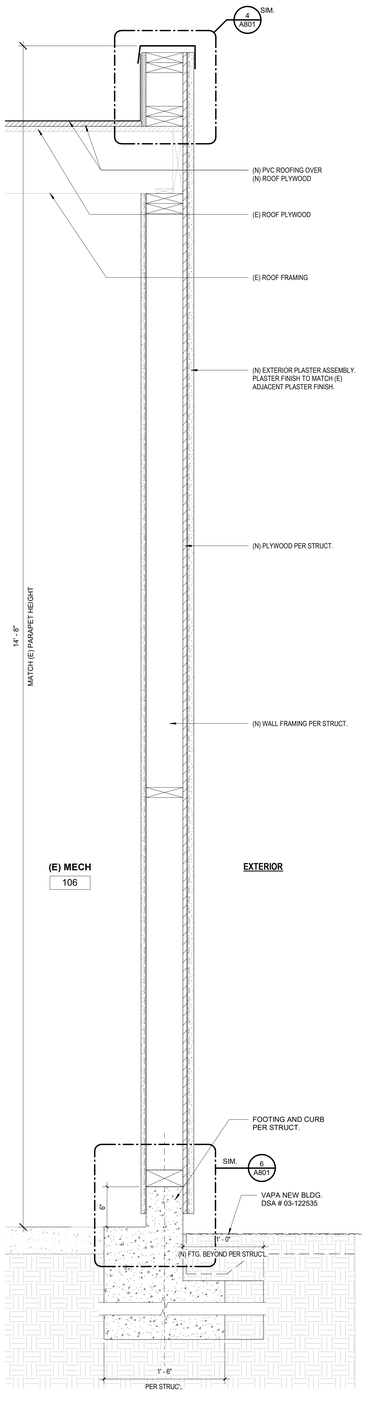
SHEET TITLE
ELEVATIONS AND SECTIONS

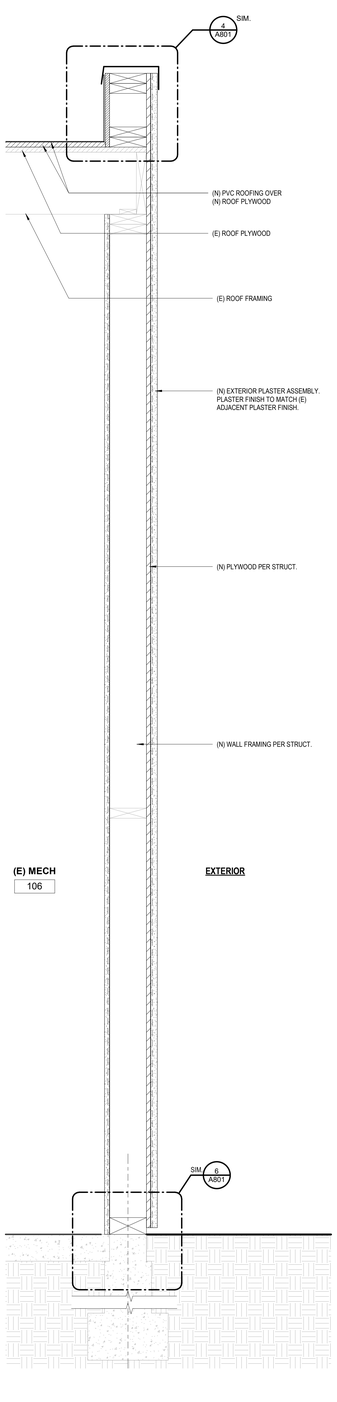
SHEET NUMBER
A301



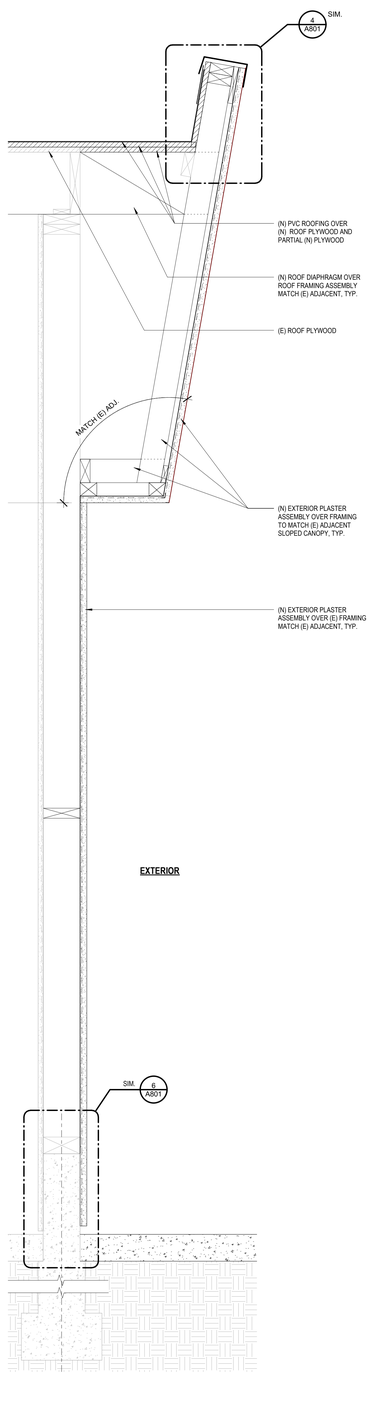
5 NS SESCTION AT (E) MECH RM 5
SCALE: 1 1/2" = 1'-0"



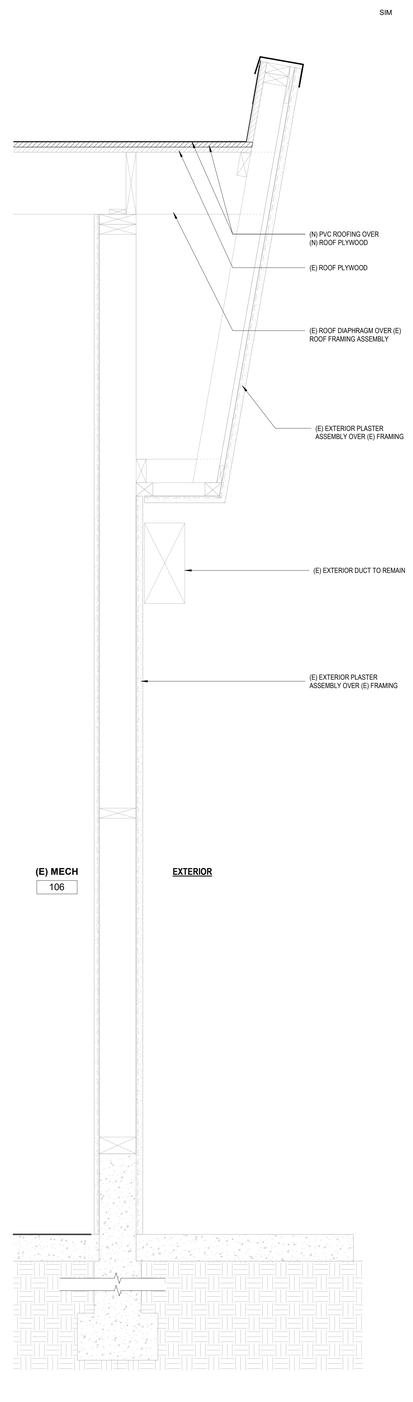
4 NS SECTION AT (E) MECH RM 4
SCALE: 1 1/2" = 1'-0"



3 NS SECTION AT (E) MECH RM 3
SCALE: 1 1/2" = 1'-0"



2 NS SECTION AT (E) MECH RM 2
SCALE: 1 1/2" = 1'-0"



1 NS SECTION AT (E) MECH RM
SCALE: 1 1/2" = 1'-0"

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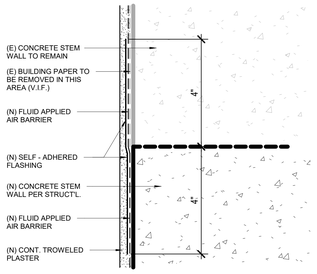
SHEET TITLE

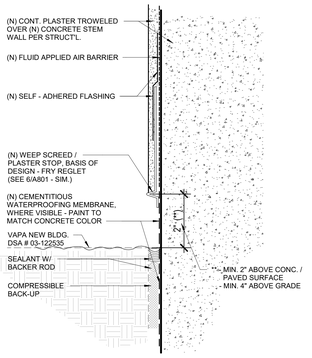
WALL SECTIONS

SHEET NUMBER

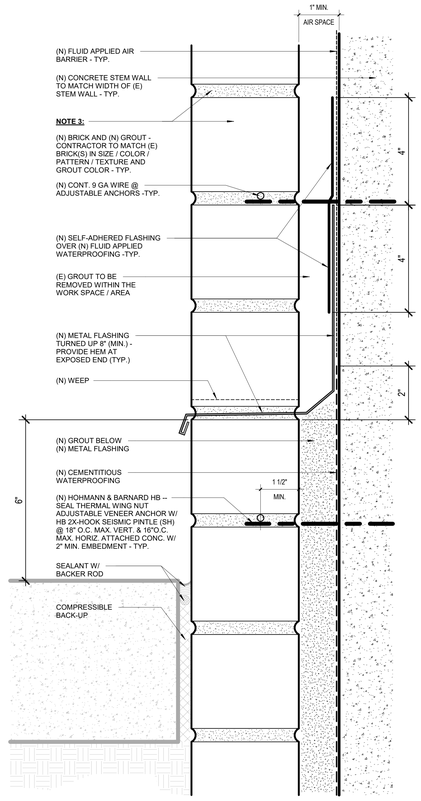
A321



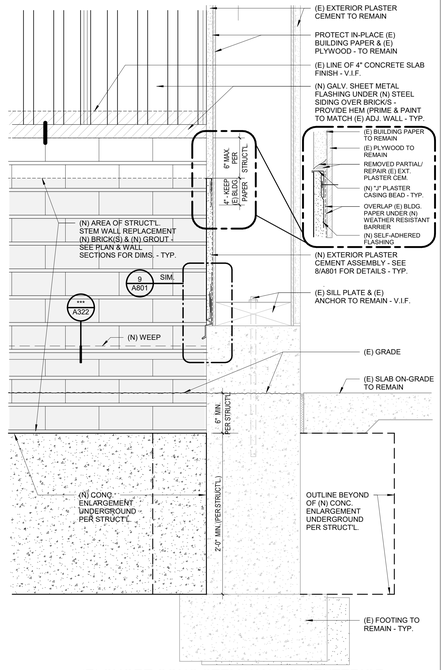
* DETAIL 'A'
SCALE: 6" = 1'-0"



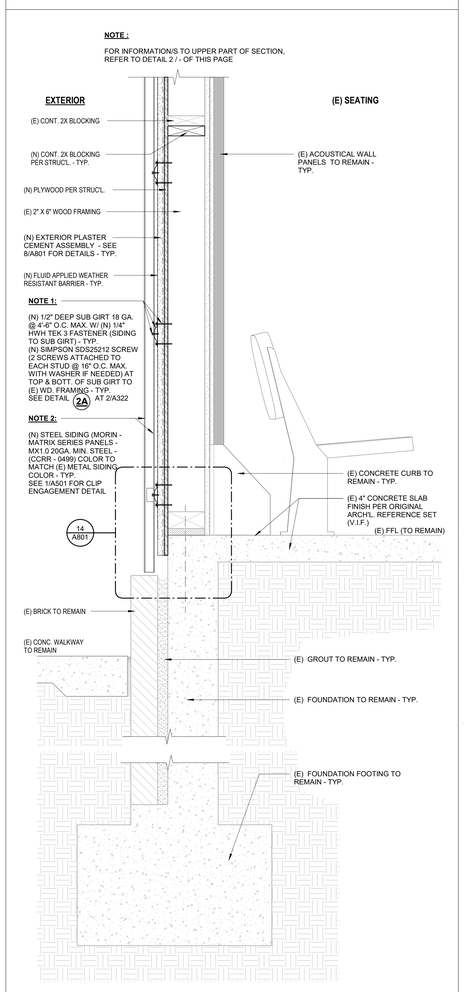
** DETAIL 'B'
SCALE: 6" = 1'-0"

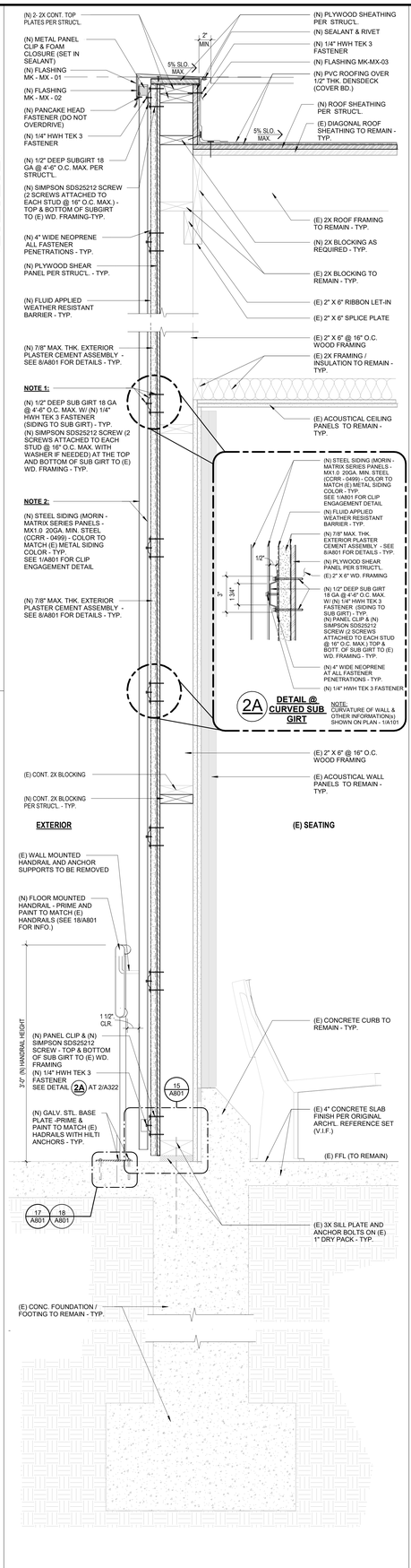


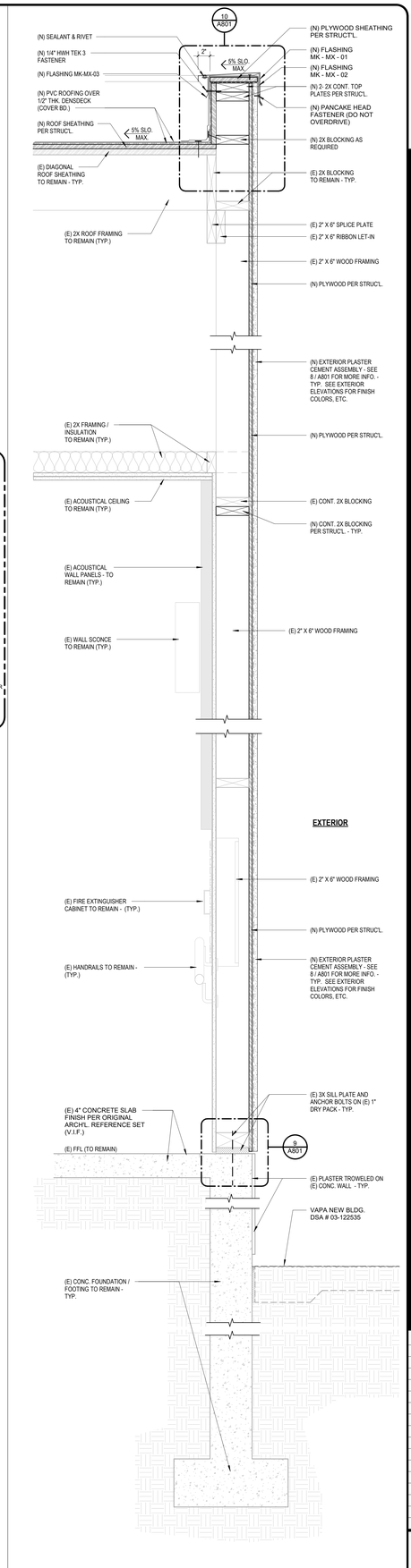
*** DETAIL 'A.1'
SCALE: 6" = 1'-0"

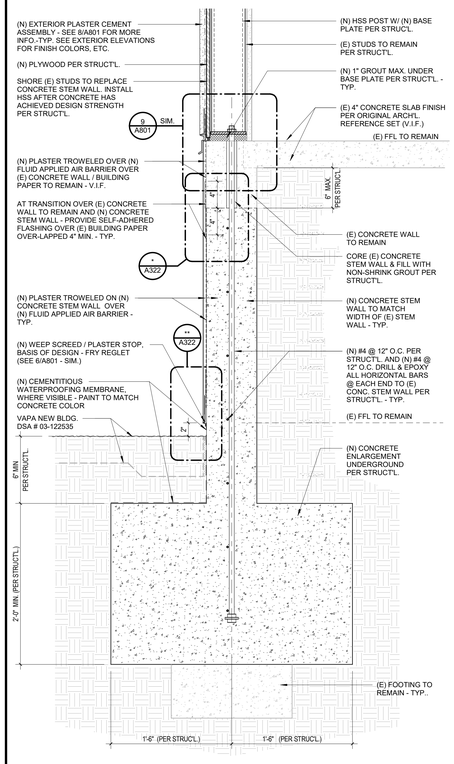


6 (E) SHORT CONC STEM WALL ON EXTERIOR PLASTER
SCALE: 1 1/2" = 1'-0"

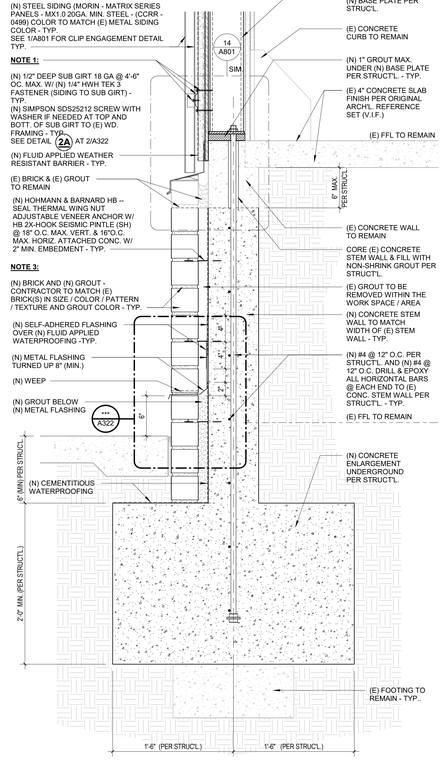








5 PART. SECT. @ (N) SHEARWALL / CEM. PLASTER AT STRUCT'L. RETROFIT
SCALE: 1 1/2" = 1'-0"



4 PART. SECT. @ (N) SHEAR WALL / (N) 20GA. STEEL SIDING PANELS / BRICKS AT STRUCL RETROFIT AT CURVED WALL
SCALE: 1 1/2" = 1'-0"

3 PART. SECT. @ (N) SHEAR WALL / (N) 20GA. STEEL SIDING PANELS / BRICKS
SCALE: 1 1/2" = 1'-0"

2 PART. SECT. @ (N) SHEAR WALL / (N) 20GA. STEEL SIDING PANELS AT CURVED WALL
SCALE: 1 1/2" = 1'-0"

1 PART. SECT. @ (N) SHEAR WALL /CEM. PLASTER
SCALE: 1 1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123908 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

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SHEET TITLE
WALL SECTIONS

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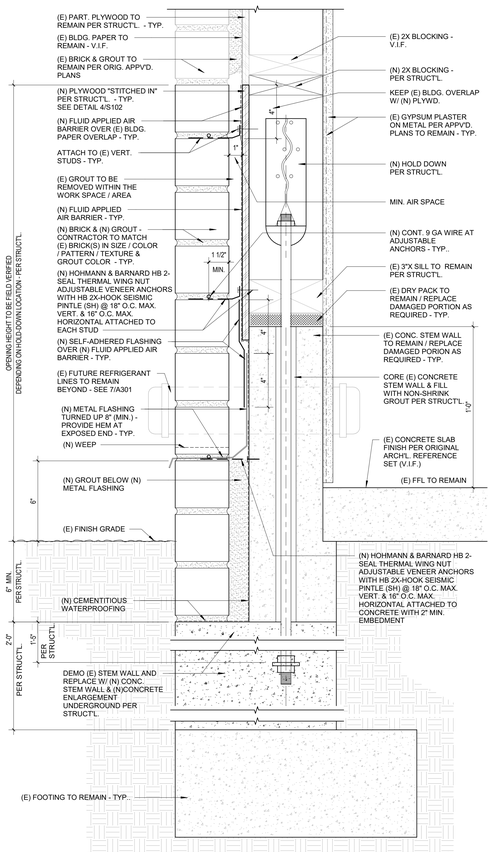
A322

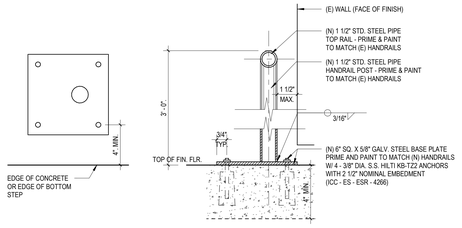


25 PART. SECT. @ (N) SHEAR WALL / (E) WD PART WITH BRICKS AT STRUCL RETROFIT

SCALE: 3" = 1'-0"

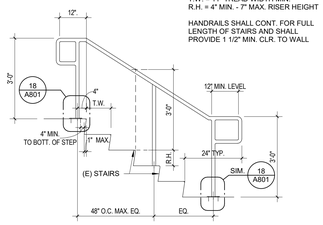
26 ROOF IMAGES

SCALE: 12" = 1'-0"



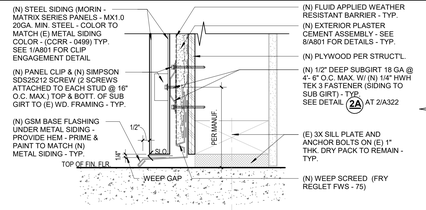
18 (NEW) FLOOR MOUNT HANDRAIL BASE PLATE DETAIL

SCALE: 3" = 1'-0"



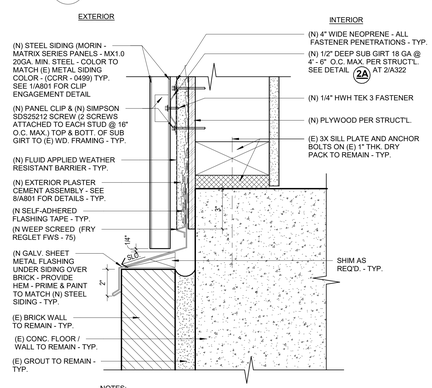
17 (NEW) FLOOR MOUNTED HANDRAIL

SCALE: 1/2" = 1'-0"



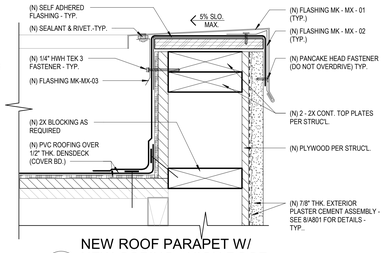
15 (N) CORRUGATED / SIDING BASE DETAIL

SCALE: 3" = 1'-0"



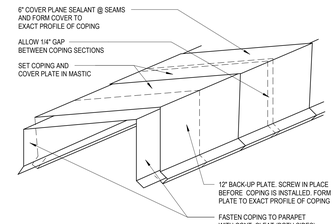
14 (E) BRICK WALL BASE @ (N) SHEAR WALL / (N) CORRUGATED SIDING (MORIN - MX1.0)

SCALE: 3" = 1'-0"



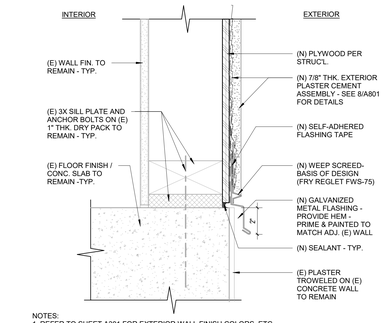
10 NEW ROOF PARAPET W/ NEW COPING - HIGH ROOF

SCALE: 3" = 1'-0"



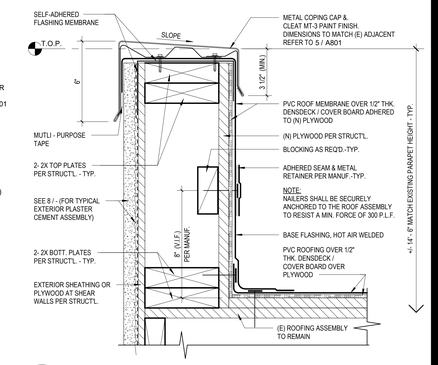
5 TYPICAL METAL COPING CAP

SCALE: 3" = 1'-0"



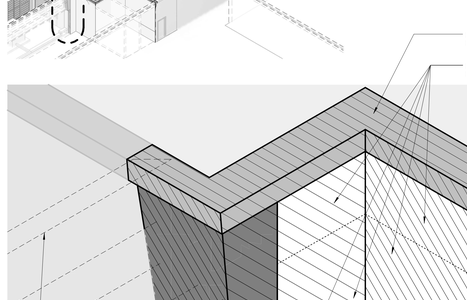
9 WALL BASE @ (N) SHEAR WALL

SCALE: 3" = 1'-0"



4 NEW ROOF PARAPET W/ NEW COPING

SCALE: 3" = 1'-0"

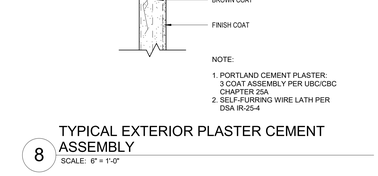


21 MECH ROOM SLOPED PARAPET DETAIL AXON

SCALE:

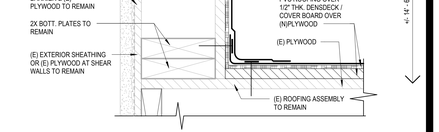
11 MECH ROOM SLOPED PARAPET IMAGES

SCALE: 12" = 1'-0"



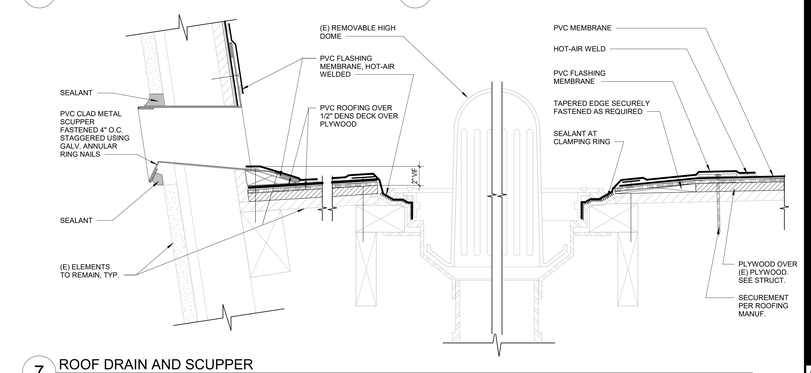
8 TYPICAL EXTERIOR PLASTER CEMENT ASSEMBLY

SCALE: 6" = 1'-0"



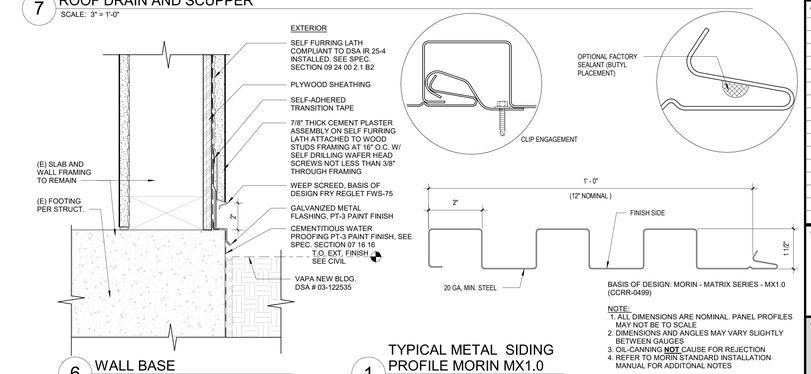
3 TYPICAL (E) ROOF PARAPET W/ NEW COPING

SCALE: 3" = 1'-0"



7 ROOF DRAIN AND SCUPPER

SCALE: 3" = 1'-0"



6 WALL BASE

SCALE: 3" = 1'-0"

1 TYPICAL METAL SIDING PROFILE MORIN MX1.0

SCALE: 6" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123908 INC: A
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SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

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ISSUE DESCRIPTION	
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SHEET TITLE

EXTERIOR DETAILS

SHEET NUMBER

A801

8/2/2024 11:59:39 AM

Received By PCM3 on 08/19/2024

GENERAL REQUIREMENTS

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, PROJECT BOUNDARIES AND EXISTING CONDITIONS AT THE SITE PRIOR TO COMMENCEMENT OF WORK AND IMMEDIATELY NOTIFY STRUCTURAL ENGINEER OF RECORD (SEOR) AND ARCHITECT OF RECORD (AOR) OF ANY DISCREPANCY. THE CONTRACTOR SHALL CHECK DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON OTHER CONTRACT DOCUMENTS.

2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STRUCTURAL ENGINEER OF RECORD (SEOR) OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER CONSTRUCTION DOCUMENTS OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT THAN THOSE SHOWN ON CONTRACT DOCUMENT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOT ORDER MATERIAL, FABRICATE ELEMENTS, OR CONSTRUCT ANY PORTION OF STRUCTURE THAT IS IN CONFLICT UNTIL RESOLUTION IS MADE. IN THE EVENT OF CONFLICTS, INCONSISTENCIES AND DISCREPANCIES BETWEEN OR AMONG THE CONTRACT DOCUMENTS THE AOR/SEOR DECIDE WHICH OF THE CONFLICTING REQUIREMENTS WILL GOVERN BASED UPON THE MOST STRINGENT OF THE REQUIREMENTS. THE CONTRACTOR SHALL PERFORM THE WORK CONSISTENT WITH THE AOR/SEOR'S DECISION WITHOUT ADJUSTMENT OF THE CONTRACT SUM OR CONTRACT TIME.

3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED BY CONTRACTOR AGAINST ARCHITECTURAL DIMENSIONS. WHERE DIMENSIONS ARE UNCLEAR OR OMITTED, REQUEST CLARIFICATION FROM THE STRUCTURAL ENGINEER OF RECORD (SEOR) AND ARCHITECT OF RECORD (AOR). DO NOT SCALE DRAWINGS. UNLESS NOTED OTHERWISE, PLAN DIMENSIONS INDICATE CENTERLINE OF BEAMS AND COLUMNS. LIGHT-FRAMED WALLS ARE DIMENSIONED TO FACE OF STUDS, AND FOOTINGS ARE CENTERED UNDER THE ELEMENTS THEY SUPPORT.
ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO START OF WORK.

4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF DOOR AND WINDOW OPENINGS IN STRUCTURAL WALLS; SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS AND SLAB EDGES; SIZE AND LOCATION OF NON-BEARING WALLS AND OPENINGS; SIZE AND LOCATION OF CONCRETE CURBS, SLOPES, DEPRESSIONS, DRAINS, NON-STRUCTURAL PARTITIONS, CHANGES IN LEVEL, CHAMFERS AND REVEALS, INSERTS FOR FINISH SYSTEMS; EXTERIOR WALL FINISHES; STAIR SIZE, LOCATION, FRAMING AND DETAILS, UNLESS DETAILED ON STRUCTURAL DRAWINGS; DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

5. PROJECT SPECIFICATIONS SHALL BE A PART OF THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN GENERAL NOTES, PLANS, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN. SPECIFIC NOTES AND DETAILS ON DRAWINGS GOVERN OVER GENERAL NOTES AND TYPICAL DETAILS. NOTIFY THE ARCHITECT OF RECORD (AOR) AND STRUCTURAL ENGINEER OF RECORD (SEOR) IMMEDIATELY WHERE CONFLICT OCCURS BETWEEN DRAWINGS AND SPECIFICATIONS. AOR/SEOR DECIDE WHICH OF THE CONFLICTING REQUIREMENTS WILL GOVERN BASED UPON THE MOST STRINGENT OF THE REQUIREMENTS.

6. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL CONSTRUCTION DETAILS. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION DOCUMENTS AND MAY NOT BE SPECIFICALLY REFERENCED THEREIN. UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE, CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE TYPICAL DETAILS PRIOR TO COMMENCEMENT OF WORK. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD (SEOR) PRIOR TO FABRICATION AND INSTALLATION. DETAIL OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.

7. SCHEDULE CONSTRUCTION OPERATIONS IN SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS, WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS OWN INSTALLATION. COORDINATE INSTALLATION OF DIFFERENT COMPONENTS TO ENSURE MAXIMUM PERFORMANCE AND ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, AND REPAIR.

8. THESE DOCUMENTS SHALL NOT BE CONSTRUED AS STAND-ALONE DOCUMENTS. CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONSULTANTS' WORK.

9. MODIFICATIONS AND SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON STRUCTURAL DRAWINGS MUST BE ACCEPTED IN WRITING BY STRUCTURAL ENGINEER OF RECORD (SEOR) PRIOR TO COMMENCEMENT OF WORK. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING ADEQUACY OF THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. ARCHITECT OF RECORD (AOR) AND STRUCTURAL ENGINEER OF RECORD (SEOR), AT THEIR DISCRETION, MAKE DETERMINATION AS TO WHETHER OR NOT THE PROPOSED CONTRACTOR'S MODIFICATIONS AND/OR SUBSTITUTIONS IS ACCEPTABLE.

10. CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION OR NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN OF TEMPORARY ERECTION AIDS, FORMWORK, SCAFFOLDING, SAFETY MEASURES, SHORING OF ANY PORTION OF WORK DUE TO CONSTRUCTION EQUIPMENT, MACHINERY AND MATERIALS, AND PROTECTION OF ADJACENT PROPERTIES. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OF RECORD (SEOR) AND ARCHITECT OF RECORD (AOR) SHALL NOT CONSTITUTE ACCEPTANCE OF CONSTRUCTION MEANS AND METHODS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES FOR THE ABOVE. CONSTRUCTION MATERIALS AND ERECTION LOADS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT THEY DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED LOADING CONDITION. CONSTRUCTION LOADS ON ELEVATED SLABS SHALL NOT RESULT IN EXCESSIVE SHORT-TERM OR LONG-TERM DEFLECTIONS.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE LATEST EDITION OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, AND ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS AS THEY APPLY TO THE PROJECT. THE STRUCTURAL ENGINEER OF RECORD (SEOR) AND THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.

12. ALL STRUCTURAL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING, AS REQUIRED, SHALL BE INSTALLED AND LEFT IN PLACE UNTIL ADEQUATE PORTION OF THE STRUCTURE IS CONSTRUCTED FOR STABILITY.

13. MAXIMUM PERMANENT EQUIPMENT WEIGHTS, POSTED LOAD LIMITS OR OTHER RESTRICTIONS NOTED ON THE STRUCTURAL DRAWINGS SHALL NOT BE EXCEEDED WITHOUT PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD (SEOR). UNLESS SPECIFICALLY STATED, THE STRUCTURE IS NOT DESIGNED TO SUPPORT TRAFFIC FROM FORK LIFTS, CRANES OR OTHER HEAVY CONSTRUCTION VEHICLES. ADEQUACY OF THE STRUCTURE TO SUPPORT TEMPORARY LOADS DURING CONSTRUCTION SHALL BE VERIFIED BY A LICENSED SHORING ENGINEER RETAINED BY CONTRACTOR. SHORING SYSTEM SHALL BE DESIGNED AS A COMPLETE SYSTEM THAT INCLUDES BUT NOT LIMITED TO GRAVITY LOADS AND LATERAL LOADS.

14. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION IF THE STRUCTURAL ENGINEER'S SEAL AND SIGNATURE IS NOT AFFIXED TO THESE DRAWINGS.

15. CONTRACTOR SHALL ESTABLISH AND VERIFY SIZE AND LOCATION OF ALL OPENINGS AND INSERTS BY ALL TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND CONSTRUCTION. PENETRATION THROUGH SLABS AND WALLS SHALL BE IDENTIFIED BY CONTRACTOR AND SUBMITTED TO STRUCTURAL ENGINEER OF RECORD (SEOR) FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF CONCRETE OR CMU. CORE DRILLING SHALL ONLY BE PERMITTED WHERE AUTHORIZED IN WRITING BY SEOR PRIOR TO PROCEEDING WITH THE WORK. CORE DRILLS SHALL NOT CUT ANY REINFORCING, UNLESS PERMITTED BY SEOR IN WRITING. INSPECTOR OF RECORD (IOR) SHALL BE PRESENT DURING CORE DRILLING FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.

16. STRUCTURAL DRAWINGS INDICATE THE APPROXIMATE LOCATION OF EQUIPMENTS AND THEIR SECONDARY FRAMING SUPPORTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK BETWEEN SUBCONTRACTORS. IN ORDER TO PROVIDE NECESSARY DIMENSIONS IN A TIMELY MANNER TO ALL PARTIES INVOLVED. SECONDARY FRAMING SUPPORTING EQUIPMENTS SHALL BE PER TYPICAL DETAILS UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.

17. SEE MECHANICAL, ELECTRICAL, AND PLUMBING (MEP) DRAWINGS FOR SIZE AND LOCATION OF EQUIPMENT PADS, EQUIPMENT ANCHORAGE TO STRUCTURE, AND EQUIPMENT WEIGHTS; ANCHORAGE AND SEISMIC BRACING OF DUCTWORK, PIPING, ELECTRICAL CONDUITS TO STRUCTURE; ELECTRICAL CONDUIT RUNS, OUTLETS AND BOXES IN CONCRETE SLABS AND WALLS; PIPE SLEEVES, TRENCHES, OPENINGS THROUGH WALLS AND SLABS FOR DUCTWORK, PIPE RUNS, AND ELECTRICAL CONDUIT RUNS.

18. ELECTRICAL CONDUITS EMBEDDED IN CONCRETE-ON-METAL DECK SHALL BE APPROVED BY STRUCTURAL ENGINEER OF RECORD (SEOR) PRIOR TO INSTALLATION. CONDUIT INSTALLATION WHERE APPROVED BY SEOR SHALL MAINTAIN STRUCTURAL INTEGRITY OF CONCRETE AND DECK. INSTALL CONDUIT WITHIN LOW FLUTES OF DECK WHEN RUNNING PARALLEL TO DIRECTION OF DECK FLUTES. OUTSIDE DIAMETER OF CONDUITS RUNNING PERPENDICULAR OR SKEWED TO DECK FLUTES SHALL BE LIMITED TO 1/3 OF CONCRETE THICKNESS ABOVE DECK FLUTES. CONDUIT MINIMUM CLEAR SPACING SHALL BE THREE TIMES THE CONDUIT DIAMETER OR 3 INCHES, WHICHEVER IS GREATER. MAXIMUM GROUP SIZE SHALL NOT EXCEED 6 CONDUITS IN ANY CASE. SECURE CONDUITS TO METAL DECK AT 4'-0" O.C. TO PREVENT SAGGING OR SHIFTING DURING CONCRETE PLACEMENT. MAINTAIN A MINIMUM CONCRETE COVER OF ONE INCH ALL AROUND CONDUITS.

19. MAKE ALLOWANCE FOR SHIM SPACE AT HEADERS AND JAMBS TO ALLOW FOR SETTLEMENT, DEFELCTION, AND MOVEMENT OF FRAMING. INSTALL WINDOWS, DOORS AND OTHER INSET ITEMS IN WALLS AFTER BUILDING LOADS ARE FULLY APPLIED.

20. STRUCTURAL JOINT DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS (EXPANSION, SEISMIC, SEPARATION, ETC) INDICATE THE MINIMUM CLEAR DISTANCE REQUIRED STRUCTURALLY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. ALL PIPES, DUCTS, CONDUIT, ETC., CROSSING SUCH JOINTS SHALL HAVE FLEXIBLE LINES WITH ADEQUATE RANGE OF MOTION.

21. REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (SEOR) PRIOR TO FABRICATION. ALLOW FOR A REVIEW DURATION OF MINIMUM 10 BUSINESS DAYS. SUBMITTALS SHALL CONSIST OF EITHER ELECTRONIC FILES OR TWO HARD COPIES (ONE SET TO BE KEPT BY THE STRUCTURAL ENGINEER OF RECORD AND ONE REPRODUCIBLE SET TO BE RETURNED TO CONTRACTOR).

22. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE ARCHITECT OF RECORD (AOR) AND STRUCTURAL ENGINEER OF RECORD (SEOR) IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND DOES NOT CONSTITUTE AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF THE CONTRACT. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS IN DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS, INCLUDING COORDINATION WITH OTHER TRADES.

23. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND SEOR FOR APPROVAL.

24. PREPARE TO-SCALE PROJECT-SPECIFIC SHOP DRAWINGS. SHOP DRAWINGS SHALL BE INDEPENDENTLY PRODUCED BY THE CONTRACTOR AND SHALL NOT BE A COPY OR REPRODUCTION OF THE CONTRACT DOCUMENTS.

25. LOAD-BEARING AND LATERAL-LOAD RESISTING WALLS ARE DESIGNED AS LATERALLY RESTRAINED AT FLOOR/ROOF LEVELS. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS REQUIRED TO RESIST DEAD, LIVE, LATERAL LOADS AND EQUIPMENT/CONSTRUCTION LOAD DURING CONSTRUCTION, AS NECESSARY.

26. ALL WORK IS NEW UNLESS INDICATED AS EXISTING (E).

27. IN AN EXISTING STRUCTURE WHERE MODIFICATIONS TO AN EXISTING LOAD-BEARING WALL IS REQUIRED, PROVIDE TEMPORARY BRACING/SHORING UNTIL NEW LOAD-BEARING WALL CONSTRUCTION IS COMPLETED AND LOAD PATH IS RESTORED.

STRUCTURAL DESIGN CRITERIA

1. GOVERNING CODE:
ALL WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE 2022 EDITION (CBC 2022), INCLUDING ALL AMENDMENTS AND SUPPLEMENTS BY GOVERNING CODE AUTHORITY, ASCE 41-17 AND OTHER CODES AND STANDARDS REFERENCED IN THE CONTRACT DOCUMENTS. ALL CODES AND STANDARDS REFERENCED IN CONTRACT DOCUMENTS SHALL BE THE LATEST EDITION AS NOTED BY CBC 2022, CHAPTER 35, UNO.

2. GOVERNING CODE AUTHORITY:
THE DIVISION OF THE STATE ARCHITECT (DSA) - STRUCTURAL SAFETY.

3. GRAVITY DESIGN LOADS:

ROOF LIVE LOAD....................20 PSF (REDUCIBLE)

4. WIND DESIGN DATA:

BASIC DESIGN WIND SPEED....................95 MPH
WIND EXPOSURE....................C
RISK CATEGORY....................II
BUILDING ENCLOSURE....................PARTIALLY ENCLOSED
INTERNAL PRESSURE COEFFICIENT....................±0.18
EXTERIOR WIND PRESSURE (COMPONENT & CLADDING) BASED ON ZONE 5 AND:

DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING (STRENGTH)
EFFECTIVE WIND AREA....................200 FT²
ZONE 1....................MIN +16.0 PSF, MAX -25.6 PSF
ZONE 2....................MIN +16.1 PSF, MAX -34.2 PSF
ZONE 3....................MIN +16.1 PSF, MAX -34.2 PSF
ZONE 4....................MIN +16.7 PSF, MAX -18.4 PSF
ZONE 5....................MIN +16.7 PSF, MAX -19.6 PSF
FOR PARAPETS (STRENGTH)
EFFECTIVE WIND AREA....................10 FT²
ZONE 4....................36.1 PSF
ZONE 5....................41.2 PSF

5. EARTHQUAKE DESIGN DATA:

SITE LATITUDE....................33.87727
SITE LONGITUDE....................-118.21036
RISK CATEGORY....................II
SEISMIC IMPORTANCE FACTOR, I_e....................1.0
SITE CLASS....................D
BSE-2N-SITE-SPECIFIC DESIGN SPECTRAL RESPONSE ACCELERATION, S_{XS}....................1.882 g
BSE-2N-SITE-SPECIFIC DESIGN SPECTRAL RESPONSE ACCELERATION, S_{X1}....................1.639 g
BSE-1E SIT- SPECIFIC DESIGN SPECTRAL RESPONSE ACCELERATION, S_{XS}....................0.835g
BSE-1E SIT- SPECIFIC DESIGN SPECTRAL RESPONSE ACCELERATION, S_{X1}....................0.549g
SITE-SPECIFIC SPECTRAL RESPONSE ACCELERATION, S_{DS}....................1.255g
SITE-SPECIFIC SPECTRAL RESPONSE ACCELERATION, S_{D1}....................1.093g
SEISMIC DESIGN CATEGORY....................D
SEISMIC BASE....................GROUND LEVEL

ANALYSIS PROCEDURE = LINEAR STATIC PROCEDURE

FOUNDATION & GEOTECHNICAL REQUIREMENTS

1. DESIGN OF FOUNDATION SYSTEM IS BASED ON RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AS NOTED BELOW:
   - GEOTECHNICAL REPORT BY....................ATLAS
   - REPORT NO....................No. 10-65139PW
   - REPORT DATE....................September 07, 2023

2. THE GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS AND CONDITIONS INDICATED IN THE GEOTECHNICAL REPORT.

3. FOUNDATIONS SHALL BE FOUNDED ON UNDISTURBED NATURAL SOIL OR ENGINEERING FILL PER RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. MINIMUM FOUNDATION WIDTH AND EMBEDMENT ARE AS NOTED BELOW:
   - MINIMUM FOOTING EMBEDMENT (BOTTOM OF FOOTING ELEVATION RELATIVE TO LOWEST ADJACENT FINISHED GRADE)....................24"

4. SPREAD FOOTING AND CONTINUOUS WALL FOOTING DESIGN IS BASED ON THE SOIL NET ALLOWABLE BEARING PRESSURE AS NOTED BELOW:
   - GRAVITY LOADS (NEW FOUNDATIONS)....................2,000 PSF
   - GRAVITY LOADS + LATERAL LOADS (NEW FOUNDATIONS)....................1,500 PSF
   - GRAVITY LOADS (EXISTING FOUNDATIONS)....................1,200 PSF
   - GRAVITY LOADS + LATERAL LOADS (EXISTING FOUNDATIONS)....................1,000 PSF

5. RESISTANCE TO LATERAL LOADS ARE PROVIDED BY FRICTION AT BASE AND PASSIVE RESISTANCE ON SIDES OF FOOTINGS, AS NOTED BELOW BY PROPERLY COMPACTED ENGINEERED FILL OR UNDISTURBED NATURAL SOIL:
   - ALLOWABLE COEFFICIENT OF FRICTION....................0.25
   - ALLOWABLE PASSIVE PRESSURE (PER FOOT OF FOOTING DEPTH)....................150 PSF
   - MAXIMUM ALLOWABLE PASSIVE PRESSURE....................1500 PSF
   - FRICTION RESISTANCE AND PASSIVE RESISTANCE ARE COMBINED WITH THE PASSIVE RESISTANCE BEING REDUCED BY ONE THIRD.

6. ALL GRADING, FOUNDATION, AND DRAINAGE PLANS SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER UPON SUBMITTAL. A CERTIFIED LETTER BY THE GEOTECHNICAL ENGINEER IS REQUESTED STATING THAT THE RECOMMENDATIONS CONTAINED WITHIN THE SOILS REPORT HAVE BEEN INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS PRIOR TO CONSTRUCTION.

7. FOUNDATION EXCAVATION SHALL BE CONTINUOUSLY INSPECTED BY THE GEOTECHNICAL ENGINEER OF RECORD (GEOR), RETAINED BY OWNER.

8. FOUNDATION EXCAVATION, BACKFILLING, AND COMPACTION SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD AND IOR PRIOR TO PLACEMENT OF REINFORCING STEEL AND CONCRETE. GEOTECHNICAL ENGINEER SHALL PROVIDE A LETTER OF COMPLIANCE TO THE OWNER.

9. GEOTECHNICAL ENGINEER OF RECORD (GEOR) SHALL OBSERVE ALL FOOTING EXCAVATIONS PRIOR TO PLACEMENT OF REINFORCING AND CONCRETE.

10. SUBSURFACE SOIL PREPARATION:

   A. GEOTECHNICAL ENGINEER SHALL BE RETAINED DURING THE OVER-EXCAVATION PROCESS. THE ACTUAL DEPTH OF REMOVAL WILL BE DETERMINED DURING GRADING OPERATIONS.
   B. ALL EXISTING UNDOCUMENTED FILL WITHIN FOOTPRINT OF PROPOSED WORK SHALL BE REMOVED AND RECOMPACTED PER GEOTECHNICAL ENGINEER'S RECOMMENDATION. ALL TOPSOILS SHALL BE REMOVED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
   C. THE OVER-EXCAVATION SHALL EXTEND HORIZONTALLY 5 FEET BEYOND EDGE OF PROPOSED FOOTING PERIMETER AND 3 FEET BELOW BOTTOM OF FOOTING ELEVATIONS PER RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
   D. OFFSITE FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.

11. PRIOR TO CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:

   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE GEOTECHNICAL REPORT.

12. BOTTOM OF FOOTING ELEVATIONS ARE NOTED ON THE PLANS AND DETAILS (BELOW LOWEST ADJACENT FINISHED GRADE ELEVATION)

13. FOUNDATION ELEVATIONS AND OTHER OVER-EXCAVATION REQUIREMENTS ON THE CONSTRUCTION DOCUMENTS SHALL BE USED FOR PRICING. ACTUAL DEPTH OF REMOVAL WILL BE DETERMINED AS DIRECTED BY THE GEOTECHNICAL ENGINEER DURING GRADING.

14. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING FOOTPRINT SHALL BE MECHANICALLY COMPACTED IN LAYERS WITH THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING IS NOT PERMITTED.

15. TEMPORARY CUT SLOPES SHALL NOT EXCEED THOSE RECOMMENDED IN THE GEOTECHNICAL REPORT. DO NOT PERMIT ANY PERSON TO DESCEND INTO TRENCHES OR EXCAVATIONS GREATER THAN FIVE FEET IN DEPTH UNLESS NECESSARY PERMIT FROM STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY (OSHA) IS OBTAINED PRIOR TO ISSUANCE OF BUILDING OR GRADING PERMIT. CONTRACTOR TO PROVIDE FOR DESIGN, PERMIT AND INSTALLATION OF ALL SHORING AND SHEATHING NECESSARY.

16. CONTRACTOR TO PROVIDE FOR DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. DEWATERING SHALL EFFECTIVELY ELIMINATE ANY HYDROSTATIC PRESSURE ON SHORING.

17. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. THE AOR AND SEOR ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

18. FOUNDATIONS MAY BE CAST DIRECTLY AGAINST EXCAVATIONS PROVIDED THAT EXCAVATION IS CAPABLE OF MAINTAINING A VERTICAL CUT WITHOUT SLOUGHING FOR A PERIOD OF AT LEAST 72 HOURS. FOUNDATION SHALL BE CAST NO MORE THAN 72 HOURS AFTER FOOTING EXCAVATION. FOUNDATION DIMENSION SHALL BE ENLARGED BY AN ADDITIONAL ONE INCH FOR THE SIDE CAST AGAINST EARTH.

19. FINISHED GRADING IMMEDIATELY ADJACENT TO BUILDING PERIMETER SHALL BE SLOPED AWAY FROM BUILDING TO PROVIDE POSITIVE DRAINAGE. LANDSCAPE IRRIGATION SHALL NOT OCCUR WITHIN FIVE FEET OF BUILDING PERIMETER EXCEPT WHEN ENCLOSED IN PLANTERS THAT DIRECT DRAINAGE AWAY FROM STRUCTURE AND FOUNDATIONS. DISCHARGE FROM DOWNSPOUTS AND ROOF DRAINS SHALL NOT OCCUR ONTO UNPROTECTED SOILS WITHIN FIVE FEET OF BUILDING PERIMETER.

STRUCTURAL STEEL

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE CURRENT CBC ADOPTED EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 360) AND AISC "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 341).

2. ALL WORK SHALL BE IN CONFORMANCE WITH ANY AND ALL TESTING, INSPECTION, QUALIFICATION, AND QUALITY ASSURANCE PROVISIONS AS REQUIRED BY THE CALIFORNIA BUILDING CODE AND ANY APPLICABLE STANDARDS (LATEST ADOPTED EDITION OF CURRENT CBC).

   - ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
   - ANSI/AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS"
   - AWS D1.1 "STRUCTURAL WELDING CODE - STEEL"
   - AWS D1.8 "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT"
   - RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS"
   - ANSI/AISC 303 " CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES"
   - ANSI/AISC 358 " PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS"

   CONFORMANCE TO SUPPLEMENTS TO THESE STANDARDS, IF PUBLISHED ON OR BEFORE THE DATE OF PERMIT ISSUANCE, IS ALSO REQUIRED. ALTHOUGH THESE CONTRACT DOCUMENTS INCLUDE GENERAL REFERENCES TO CODES AND STANDARDS, AND REFERENCES TO OR INCLUSIONS OF SPECIFIED PROVISIONS, OMISSIONS OF ANY APPLICABLE CODE, STANDARD, OR PROVISION DOES NOT RELIEVE THE GENERAL CONTRACTOR FROM COMPLIANCE TO THE APPLICABLE REQUIREMENTS. COORDINATION OF QUALITY CONTROL AND QUALITY ASSURANCE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

3. STRUCTURAL STEEL MATERIAL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS, UNO:

   WIDE FLANGE SECTIONS....................ASTM A992
   PLATE, ANGLE, CHANNEL & TEES....................ASTM A36 (UNO)
   PLATES USED IN SFRS....................ASTM A572 (50 KSI)
   SQUARE OR RECTANGULAR HSS....................ASTM A500, GRADE C (50 KSI)
   ROUND HSS....................ASTM A500, GRADE C (46 KSI)
   PIPES....................ASTM A53, GRADE B (35 KSI)

4. FABRICATOR SHALL BE LICENSED IN CONFORMANCE WITH THE BUILDIND CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

5. ALL STEEL NOT ENCASED IN CONCRETE, MASONRY, OR FIREPROOFING SHALL BE SHOP PRIMED AND PAINTED PER SPECIFICATIONS, EXCEPT FOR TOP FLANGE OF BEAMS SUPPORTING METAL DECK. ANY ABRASIONS OR UNPAINTED AREAS SHALL BE REPAIRED AFTER ERECTION.

6. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL PERMANENTLY EXPOSED TO WEATHER OR GROUND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A385 UNLESS A WEATHER PROOF COATING IS SPECIFIED BY THE ARCHITECT, UNO. STAINLESS AND WEATHERING STEELS, WHERE SPECIFIED, ARE EXEMPT FROM THIS REQUIREMENT. GALVANIZED SURFACES SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE REPAIRED AS NECESSARY. BOLTED CONNECTIONS PERMANENTLY EXPOSED TO WEATHER SHALL USE GALVANIZED HIGH-STRENGTH BOLTS ASTM F3125 GRADE A325 TYPE 1 OR GALVANIZED ASTM F3125 GRADE F1852 TYPE 1. WELDED CONNECTIONS PERMANENTLY EXPOSED TO WEATHER SHALL RECEIVE ZINC RICH TOUCH UP PAINT (COORDINATE WITH AOR). STEEL IN CONTACT WITH TREADED WOOD SHALL BE HOT DIP GALVANIZED, UNO.

7. DO NOT CUT HOLES IN STRUCTURAL STEEL WITHOUT WRITTEN APPROVAL OF THE SEOR.

8. PLACE NON-SHRINK OR DRYPACK GROUT UNDER ALL BASE PLATES AND ALLOW TO CURE BEFORE APPLYING ANY LOAD.

9. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.

10. SUBMIT SHOP DRAWINGS TO AOR AND SEOR FOR REVIEW AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. INDICATE AN ERECTION SEQUENCE OF WELDING TO MINIMIZE LOCKED-UP STRESSES OR DISTORTION FOR MOMENT-RESISTING STEEL FRAMES.

11. HOURLY FIRE RESISTIVE REQUIREMENTS FOR STRUCTURAL STEEL MEMBERS SHALL BE DETERMINED PER CBC TABLE 601. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING TYPES OF CONSTRUCTION AND FIREPROOFING MATERIALS

12. SEE "HIGH-STRENGTH BOLT" AND "WELDING" NOTES FOR ADDITIONAL INFORMATION.

(a) HIGH-STRENGTH BOLTS:

1. SEE "STRUCTURAL STEEL" NOTES FOR ADDITIONAL INFORMATION.

2. JOINT ASSEMBLIES USING HIGH-STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH THE CURRENT CBC ADOPTED EDITION OF THE "AISC (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".

3. HIGH-STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" PREPARED BY RCSC AND AS AMENDED BY CBC SECTION 2204A. PROVIDE STANDARD-SIZE HOLES UNLESS NOTED OTHERWISE.

4. ALL BOLTS SHALL BE HIGH-STRENGTH BOLTS, UNLESS NOTED OTHERWISE.

5. BOLTS WITH UPSET THREADS ARE NOT ALLOWED UNLESS NOTED OTHERWISE.

6. BOLTED CONNECTIONS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS UNO:

   MACHINE BOLTS (MB)....................ASTM A307
   HIGH-STRENGTH BOLTS (TYP UNO ON DRAWINGS)....................ASTM F3125 GRADE A325 (TYPE 1) UNO
   HIGH-STRENGTH BOLTS (TWIST-OFF-TYPE TENSION-CONTROLLED)....................ASTM F3125 GRADE F1852 (TYPE 1) UNO THREADED
   RODS USED AS ANCHOR BOLTS....................ASTM F1554, GRADE 36 (UNO)
   THREADED RODS USED IN SFRS (TYP. UNO ON DRAWINGS)....................ASTM F1554, GRADE 55 (WELDABLE WITH SUPPLEMENT S1)

7. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.

8. ALL HIGH-STRENGTH BOLTS SHALL BE TIGHTENED TO SNUG-TIGHT CONDITION USING ASTM F3125 GRADE A325 BEARING TYPE BOLTS WITH THREADS INCLUDED IN SHEAR PLANE UNLESS NOTED OTHERWISE.

9. PROVIDE SLIP-CRITICAL CONNECTIONS IN SEISMIC FORCE RESISTANCE SYSTEM (SFRS). SLIP-CRITICAL BOLTS SHALL HAVE CLASS "A" FAYING SURFACES. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, TENSION CONTROL CALIBRATED WRENCH TIGHTENING, TWIST-OFF BOLTS CONFORMING TO ASTM F3125 GRADE F1852, OR BY DIRECT TENSION INDICATOR TIGHTENING CONFORMING TO ASTM F959.

(b) STEEL WELDING:

1. SEE "STRUCTURAL STEEL" NOTES FOR ADDITIONAL INFORMATION.

2. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE CURRENT CBC ADOPTED EDITION OF THE CODE:
   - "STRUCTURAL WELDING CODE-STEEL AWS D1.1" BY AMERICAN WELDING SOCIETY.
   - AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (ANSI/AISC 360).

3. WELDS SHALL BE PREQUALIFIED PER AWS D1.1. NON-PREQUALIFIED WELDED JOINTS SHALL BE QUALIFIED BY TEST AND SUPPORTING PROCEDURE QUALIFICATION RECORD (PQR).

4. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.

5. SUBMIT TO AOR AND SEOR WRITTEN WELDING PROCEDURE SPECIFICATION (WPS) FOR ALL WELDS USED ON PROJECT PRIOR TO FABRICATION FOR REVIEW AND APPROVAL. FOR WELDS NOT PREQUALIFIED, THE SUPPORTING PROCEDURE QUALIFICATION RECORD (PQR) SHALL ALSO BE SUBMITTED WITH THE WPS. WPS SHALL BE IN ACCORDANCE TO AWS D1.1, AND SHALL INCLUDE THE FOLLOWING INFORMATION FOR EACH WELD TYPE POSITION

   A. BASE METAL TYPES AND THICKNESS.
   B. SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS.
   C. APPLICABLE WELD PROCESS (SWAM OF FCAW).
   D. ELECTRODE MANUFACTURER'S TECHNICAL INFORMATION AND CERTIFICATE OF CONFORMANCE.
   E. FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION.
   F. ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, MELT OFF RATE AND DEPOSITION RATE.

6. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 USING E70XX ELECTRODES UNLESS OTHERWISE NOTED. ELECTRODE DIAMETER SHALL NOT EXCEED PREQUALIFIED LIMITS SHOWN IN AWS D1.1 TABLE 3.7, AS APPLICABLE. FOR FCAW PROCESS, MAXIMUM ELECTRODE SIZE SHALL NOT EXCEED 1/8 INCH.

7. ALL FULL PENETRATION WELDS SHALL BE ULTRASONIC TESTED (UT) PER AWS D1.1 AND D1.8 REQUIREMENTS AS APPLICABLE.

8. SHOP WELDING, INCLUDING ULTRASONIC TESTING OF FULL PENETRATION WELDS SHALL BE PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.

9. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS, UNO. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.

10. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10. GRIND ALL EXPOSED WELDS SMOOTH IN ALL STEEL DESIGNATED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) OR WHERE INDICATED IN ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS.

11. FIELD WELD SYMBOLS SHOWN IN CONTRACT DOCUMENT REFLECT ENGINEERING INTENT AND NO ATTEMPT IS MADE TO IDENTIFY AND/OR CLASSIFY TYPES OF WELDS. AT FABRICATOR'S OPTION, ANY WELD INDICATED ON CONTRACT DOCUMENT AS FIELD WELD MAY BE SHOP WELDED AND ANY WELD INDICATED ON CONTRACT DOCUMENT AS SHOP WELD MAY BE FIELD WELDED AND VICE VERSA. FABRICATOR SHALL CONSIDER MEANS & METHODS OF CONSTRUCTION, ERECTION TOLERANCES, PLACEMENT TOLERANCES, SEQUENCING, INSPECTION, ETC. WHEN DETERMINING SHOP VS. FIELD WELDS.

12. WELDING OF SHEET METAL AND METAL STUDS SHALL BE IN ACCORDANCE WITH AWS D1.3.

13. TESTING LABORATORY WILL VERIFY COMPLIANCE WITH ACCEPTED WPS AND WILL PROMPTLY NOTIFY AOR/SEOR IF DEVIATIONS ARE FOUND.

SHEET LIST

STRUCTURAL STEEL (CONTINUED)

(c) STEEL IN SEISMIC FORCE RESISTING SYSTEM (SFRS):

1. SEE "STRUCTURAL STEEL", "HIGH-STRENGTH BOLTS" AND "STEEL WELDING" NOTES FOR ADDITIONAL INFORMATION.

2. DETAILS, MATERIALS, WORKMANSHIP, AND TESTING AND INSPECTION REQUIREMENTS OF WELDED JOINTS IN THE SFRS SHALL CONFORM TO THE CURRENT CBC ADOPTED EDITION OF THE FOLLOWING CODES AND STANDARDS:
   A. AWS D1.1 "STRUCTURAL WELDING CODE-STEEL"
   B. AWS D1.8 "STRUCTURAL WELDING CODE-SEISMIC SUPPLEMENT"
   C. ANSI/AISC 341, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" SECTION J (QUALITY CONTROL AND QUALITY ASSURANCE)

3. "SFRS" (SEISMIC FORCE RESISTING SYSTEM) INDICATES THAT PART OF THE STRUCTURAL SYSTEM THAT HAS BEEN CONSIDERED IN THE DESIGN TO PROVIDE REQUIRED RESISTANCE TO SEISMIC FORCES PRESCRIBED IN THE APPLICABLE BUILDING CODE. THE VERTICAL FORCE-RESISTING ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM ARE IDENTIFIED ON THE STRUCTURAL DRAWINGS.

4. "COLLECTOR LINE" INDICATES MEMBERS AND CONNECTIONS THAT SERVE TO TRANSFER LOADS BETWEEN DIAPHRAGMS AND THE VERTICAL FORCE-RESISTING ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM. COLLECTOR LINES SHALL BE CONSIDERED PART OF SEISMIC FORCE RESISTING SYSTEM (SFRS).

5. ASTM F3125 GRADE F1852 SLIP-CRITICAL BOLTS SHALL BE PROVIDED FOR ALL SFRS MEMBER BOLTED CONNECTIONS AND COLLECTOR LINES BOLTED CONNECTIONS, UNO.

6. WELD MATERIALS USED IN SFRS WELDED CONNECTIONS SHALL CONFORM TO THE FOLLOWING TOUGHNESS REQUIREMENTS:
   A. WELDED CONNECTIONS SHALL BE MADE WITH A FILLER METAL MEETING THE REQUIREMENTS SPECIFIED IN CLAUSES 6.1, 6.2 AND 6.3 OF AWS D1.8/D1.8M CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0°F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD.
   B. WELDED CONNECTIONS DESIGNATED AS "DEMAND CRITICAL", SHALL BE MADE WITH A FILLER METAL MEETING THE REQUIREMENTS SPECIFIED IN AWS D1.8/D1.8M CLAUSES 6.1, 6.2 AND 6.3 CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT -20°F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD, AND 40 FT-LB AT 70°F AS DETERMINED BY CHAPTER J OF ANSI/AISC 341.
   C. FOR HOT ROLLED SHAPES WITH FLANGE THICKNESS EQUAL TO OR GREATER THAN 1 1/2 INCHES AND PLATES WITH THICKNESS EQUAL TO OR GREATER THAN 2 INCHES SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 70°F.

7. WELDERS PERFORMING WELDING WITHIN THE "SFRS" SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.8 CHAPTER.

8. SPLICES IN COLUMNS DESIGNATED "SFRS" SHALL HAVE DEMAND CRITICAL COMPLETE JOINT PENETRATION WELDS.

9. WHERE A PORTION OF A STRUCTURAL STEEL MEMBER IS DESIGNATED AS A PROTECTED ZONE, IT SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
   A. TACK WELDS, AIR-ARC GOUGING, THERMAL CUTTING, AND OTHER DISCONTINUITIES CREATED BY FABRICATION OR ERECTION OPERATIONS, SHALL BE REPAIRED AS REQUIRED BY SEOR.
   B. WELDED SHEAR STUDS AND DECKING ATTACHMENTS THAT PENETRATE THE BEAM FLANGE SHALL NOT BE PLACED ON BEAM FLANGES. ARC SPOT WELDS AS REQUIRED TO SECURE METAL DECK SHALL BE PERMITTED.
   C. WELDED, BOLTED, SCREWED, OR SHOT-IN ATTACHMENTS FOR PERIMETER EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING, OR OTHER CONSTRUCTIONS SHALL NOT BE PERMITTED.
   D. REFER TO CURRENT CBC ADOPTED EDITION OF AISC 341 FOR ADDITIONAL REQUIREMENTS.

10. CORNERS OF CONTINUITY PLATES AND STIFFENERS PLACED IN THE WEBS OF ROLLED SHAPES SHALL BE DETAILED IN ACCORDANCE WITH AWS D1.8/D1.8M CLAUSE 4.1.

11. HYDROGEN LEVEL FOR ELECTRODES USED IN SFRS WELDED JOINTS SHALL MEET THE REQUIREMENTS PER AWS D1.8 AND ANSI/AISC 341. ELECTRODES FOR ALL OTHER WELDS SHALL BE LOW HYDROGEN TYPE.

DEMOLITION NOTES

1. DEMOLITION WORK SHALL BE CONDUCTED IN SUCH A MANNER AS TO NOT DAMAGE EXISTING ELEMENTS THAT ARE TO REMAIN IN THE FINISHED BUILDING.

2. VERIFY EXISTING BUILDING DIMENSIONS AND ELEVATIONS. NOTIFY AOR/SEOR OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.

3. PROVIDE MEASURES NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING DEMOLITION WORK. PROTECTIVE MEASURES SHALL REMAIN IN PLACE UNTIL THE FINAL STRUCTURAL ELEMENTS ARE IN PLACE AND ABLE TO SAFELY CARRY ALL IMPOSED EXISTING BUILDING LOADS. SUCH MEASURES INCLUDE, BUT NOT LIMITED TO, BRACING AND SHORING.

4. EXISTING ELEMENTS OF THE STRUCTURE THAT ARE TO REMAIN IN THE FINISHED BUILDING SHALL BE PROTECTED AS NECESSARY TO MINIMIZE DAMAGE DURING DEMOLITION WORK, ANY SUCH DAMAGE SHALL BE REPAIRED AND/OR REPLACE AT NO ADDED COST.

5. ROUGHEN EXISTING CONCRETE SURFACES AGAINST WHICH FRESH CONCRETE IS TO BE PLACED TO A FULL AMPLITUDE OF 1/4 INCH.

6. EXISTING CONCRETE ELEMENTS THAT ARE TO BE REMOVED BY CHIPPING SHALL BE STARTED WITH A 3/4 INCH DEEP SAW CUT. CORNERS SHALL BE DRILLED TO PREVENT OVER-CUTTING. EXPOSED SAW CUT LINES SHALL BE CLEAN, STRAIGHT AND SMOOTH.

7. EXISTING REINFORCING STEEL TO REMAIN SHALL BE CLEANED TO BARE METAL.

8. DEMOLISHED MATERIAL PLACE ON EXISTING FLOORS SHALL BE SPREAD OUT SUCH THAT IMPOSED LOADS DO NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING WHERE OVERLOAD IS ANTICIPATED.

SCOPE OF MANDATORY SEISMIC RETROFIT:

SCOPE OF WORK CONSISTS OF THE MANDATORY REHABILITATION OF THE (E) WOOD FRAMED BUILDING. THE REHABILITATION IS BASED ON THE ASCE 41-17. THE MANDATORY SEISMIC UPGRADE SCOPE OF WORK IS AS FOLLOWS:

1. REPLACING PLYWOOD PANELS ON (E) SHEAR WALLS WHERE REQUIRED.
2. ADD SHEAR TRANSFER TO (E) SHEAR WALLS WHERE REQUIRED.
3. ADD NEW HOLDOWNS WHERE REQUIRED.
4. ADD NEW SILL PLATE ANCHOR BOLTS WHERE REQUIRED.
5. ADD PLYWOOD PANELS ON (E) DIAPHRAGM.
6. NEW SHEAR WALLS.
7. NEW FOOTINGS UNDER NEW SHEAR WALLS.
8. STRENGTHENING CHORD SPLICES.
9. STRENGTHEN (E) CEILING IN THEATRE.

THE FOLLOWING IS THE DESIGN CRITERIA FOR MANDATORY RETROFIT PER 2022 CEBC, TABLE 317.5. THE SEISMIC HAZARD LEVELS AND ACCEPTANCE CRITERIA FOR STRUCTURAL AND NON-STRUCTURAL IS AS FOLLOWS:

FOR HAZARD LEVEL: **BSE-1E** ACCEPTANCE CRITERIA USED: **S-3** AND **N-C**
FOR HAZARD LEVEL: **BSE-2N** ACCEPTANCE CRITERIA USED: **S-5** AND **N-D**

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE: 08/14/2024

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COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
S001

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REINFORCING STEEL

1. REINFORCING GRADES FOR CONCRETE OR MASONRY (UNO):
   A. ALL BARS EXCEPT THOSE TO BE WELDED........ASTM A615, GRADE 60
   B. TIES AND STIRRUPS........ASTM A615, GRADE 60
   C. WELDED WIRE FABRIC........ASTM A1064
   D. ALL BARS TO BE WELDED........ASTM A706, GRADE 60

   NOTE: ALL BARS SHALL BE DEFORMED.

2. MAINTAIN SPECIFIED CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO):

SPECIFIED CONCRETE COVER FOR CAST-IN-PLACE NON-PRESTRESSED CONCRETE MEMBERS

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER (IN)
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	NO. 6 THROUGH NO. 18 BARS	2
		NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLABS, JOISTS, AND WALLS	NO. 14 AND NO.18 BARS	1 1/2
		NO. 11 BAR AND SMALLER	3/4
	BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES	PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	1 1/2

3. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE LATEST EDITION OF CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE". EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 24"OC. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN ON THE PLANS. DO NOT USE WOOD OR BRICK TO SUPPORT REINFORCING.

4. SPLICES IN CONTINUOUS REINFORCEMENT AS USED IN WALLS, WALL FOOTINGS, ETC., SHALL HAVE A CLASS "B" LAP (1'-6" MIN) AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINFORCING OF BEAMS AND SLABS OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM. ADJACENT WELDED WIRE FABRIC (WWF) SHEET SHALL BE LAPPED 12 INCHES MINIMUM.

5. PROVISION FOR LAP SPLICES OR DOWELS SHALL BE PROVIDED ACROSS ALL CONSTRUCTION JOINTS AND SHALL BE THE SAME GRADE, SIZE AND SPACING AS REINFORCING CONTINUING BEYOND UNLESS NOTED OTHERWISE. IN LIEU OF SPLICES OR DOWELS, THE CONTRACTOR MAY SUBMIT FOR SEOR APPROVAL THE LOCATION AND MANUFACTURER DATA OF FORMSAVERS OR COUPLERS PRIOR TO THEIR USE.

6. ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERFORMED DURING PLACEMENT OF CONCRETE.

7. BEND REINFORCING BARS COLD.

8. REINFORCING BARS SHALL BE KEPT CLEAN AND FREE OF RUST.

9. DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE MAIN REINFORCING UNO.

10. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.

11. CHAIRS OR SPACERS FOR REINFORCING SHALL BE PLASTIC WHEN RESTING ON EXPOSED SURFACES.

12. WHERE LONGITUDINAL REINFORCING BARS ARE PLACED IN 2 OR MORE LAYERS, BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE BARS IN THE BOTTOM LAYER.

13. ALL BENDS WITHIN STIRRUPS, HOOPS, AND CROSS-TIES SHALL ENGAGE A LONGITUDINAL BAR. PROVIDE #4 SPACER BAR WHERE A LONGITUDINAL BAR IS NOT SPECIFICALLY DETAILED.

14. WELDING OF REINFORCING BARS SHALL BE ASTM A706 AND BE PERFORMED PER AMERICAN WELDING SOCIETY (AWS) D1.4 USING MATCHING FILLER MATERIALS PER AWS TABLE 7.1, MINIMUM E80XX ELECTRODES.

15. CONTRACTOR SHALL PROVIDE ALLOWANCE FOR 5 TONS OR 2% OF REINFORCING STEEL WHICHEVER IS GREATER TO BE FABRICATED AND/OR PLACED DURING THE PROGRESS OF CONSTRUCTION AS MAY BE DIRECTED BY THE AOR/SEOR. THE UNUSED PORTION SHALL BE CREDITED TO THE OWNER AT THE COMPLETION OF CONCRETE WORK.

16. THE FOLLOWING REINFORCEMENT SHALL COMPLY WITH ASTM A706:
    A. VERTICAL REINFORCEMENT AT INTERSECTIONS AND ENDS OF CONCRETE WALLS ENCLOSED IN TIES OR STIRRUPS (BOUNDARY ELEMENTS).
    B. LONGITUDINAL MOMENT FRAME BEAMS AND COLUMNS REINFORCING BARS.
    C. WELDED REINFORCING.

POST-INSTALLED ANCHOR

1. POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, SCREW ANCHORS, EPOXY ANCHORS/DOWELS, AND POWDER-ACTUATED FASTENERS.

2. INSTALL POST-INSTALLED ANCHORS PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS.

3. WHEN INSTALLING POWER-INSTALLED ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE REINFORCING BARS OR OTHER EMBEDDED ITEMS SUCH AS ELECTRICAL/TELECOMMUNICATIONS CONDUIT AND GAS LINES. WHEN INSTALLING DRILL-IN ANCHORS INTO PRESTRESSED CONCRETE (PRE OR POST-TENSIONED), LOCATE TENDONS DURING INSTALLATION BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.

4. WHERE SPECIFIED ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE PROVIDED, NOTIFY THE SEOR AND IOR PRIOR TO INSTALLATION.

5. PATCH ABANDONED HOLES AND SPALLS USING NON-SHRINK GROUT AND REPAIR FINISHES AS REQUIRED. ANCHORS PENETRATING THROUGH WATER PROOFING OR VAPOR MEMBRANES SHALL BE SEALED OR FLASHED.

6. TESTING OF POST-INSTALLED ANCHORS IS REQUIRED UNO. TEST ANCHORS IN ACCORDANCE WITH THE PROVISIONS OF CBC 19010A.5 AND THE FOLLOWING:
   a. TEST 100% OF ANCHORS AT ALL STRUCTURAL APPLICATIONS UNO.
   b. TEST 50% OF ANCHORS AT ALL-NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, UNO.
   c. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TEST FREQUENCY. IF THE ANCHORS ARE USED FOR THE SUPPORT AND BRACING OF NON-STRCTURAL COMPONENTS (PIPE, DUCT, OR CONDUIT), THE TWENTY (20) SHALL BE ONLY THOSE ANCHORS INSTALLED BY THE SAME TRADE.
   d. ALL POST-INSTALLED ANCHORS ARE TO BE TENSION TESTED WITH THE EXCEPTION THAT TORQUE TESTING IS ALLOWED IF THE ANCHORS ARE SPECIFICALLY DESIGNED AS TORQUE CONTROLLED.
   e. TENSION TESTS ACCEPTANCE: APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING NUT IS POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD. ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNIBLE MOVEMENT DURING THE TENSION TEST, E.G. AS EVIDENCED BY LOOSENING F THE WASHER UNDER THE NUT.
   f. TORQUE TESTS ACCEPTANCE: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE MANUFACTURER'S RECOMMENDED TORQUE WITHIN 1/2 TURN OF THE NUT.
   g. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
   h. FIELD TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR OR INSPECTOR OF RECORD.
   i. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
   j. INSPECTOR OF RECORDS SHALL REQUEST PROOF TEST VALUES FROM SEOR FOR EACH TYPE OF POST-INSTALLED ANCHORS AT LEAST 48 HOURS PRIOR TO TESTING.

7. INSTALLERS PLACING HORIZONTALLY OR UPWARDLY INCLINED ADHESIVE ANCHORS SHALL BE CERTIFIED BY ACI OR APPROVED EQUIVALENT.

8. RE-USE OF SCREW ANCHORS OR HOLES IS NOT PERMITTED.

EXISTING CONDITIONS

1. SEE "AS-BUILT" DRAWINGS FOR EXISTING BUILDING ITEMS NOT SHOWN OR NOTED.

2. FIELD VERIFY ALL CONDITIONS & DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.

3. WHERE ALL OTHER EXISTING CONDITIONS VARY SIGNIFICANTLY FROM THOSE SHOWN ON THESE DRAWINGS, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT CONDITIONS.

4. SHORE ALL EXISTING CONSTRUCTION AS REQUIRED, INCLUDING WHERE WELDING TO EXISTING STEEL FRAMING. SHORING DESIGN BY OTHERS.

5. ALL EXISTING CONCRETE SURFACES TO BE IN CONTACT WITH NEW CONCRETE SHALL BE ROUGHENED TO 1/4" MINIMUM AMPLITUDE. USE ICC APPROVED BONDING AGENT ON EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE.

6. VERIFY LOCATION OF EXISTING REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING. EXISTING REINFORCING SHALL BE AVOIDED WHERE DRILLING FOR POST-INSTALLED ANCHORS OR CONCRETE DOWELS.

7. THE GENERAL CONTRACTOR SHALL COORDINATE THE WEIGHT AND SPECIFIC LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE STRUCTURAL FRAMING. IF THE EQUIPMENT DEVIATES IN WEIGHT OR LOCATION FROM THOSE INDICATED IN THE DRAWINGS, THE STRUCTURAL ENGINEER'S APPROVAL MUST BE OBTAINED PRIOR TO INSTALLATION OF THE UNITS.

8. ALL EXISTING WOOD FRAMING MEMBERS SUPPORTING NEW MECHANICAL UNITS SHALL BE INSPECTED FOR DAMAGE AND DETERIORATION PRIOR TO INSTALLATION OF THE UNITS. NOTIFY THE STRUCTURAL ENGINEER IF DAMAGE OR DETERIORATION IS DISCOVERED.

9. ALL EXISTING (E) WOOD ELEMENTS TO REMAIN SHALL BE FIELD INSPECTED DURING CONSTRUCTION AND TREATED FOR DRYROT REMOVAL / CONTROL. WHERE EXISTING GLUE LAMINATED TIMBER BEAMS TO REMAIN ARE FOUND TO HAVE EXTENSIVE DRYROT DEEPER THAN THE TOP TWO LAMINATIONS (3"), THE STRUCTURAL ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUED CONSTRUCTION RELATED TO SUBJECT GLUE LAMINATED TIMBER BEAMS .

EXISTING CONDITIONS (CONTINUED)

10. ALL EXISTING CONNECTIONS AT ELEMENTS TO BE REPLACED SHALL BE REPLACED OR RE-ATTACHED TO MATCH EXISTING CONDITIONS.

11. SEE PROJECT REPORTS AND ARCHITECTURAL DRAWINGS FOR HAZARDOUS MATERIALS (LEAD, ASBESTOS, ETC.) ABATEMENT REQUIREMENTS.

12. DO NOT CUT OR DAMAGE EXISTING CONCRETE OR MASONRY REINFORCEMENT EXCEPT AS CLEARLY INDICATED ON STRUCTURAL DRAWINGS. MAINTAIN AT LEAST 2 INCHES CLEAR TO EXISTING REINFORCEMENT, CONDUIT AND OTHER EMBEDDED ITEMS FROM CUTS, CORES, DRILL HOLES, SHOTPINS, ETC. IN AREAS OF WORK, MARK LOCATIONS OF SUCH ITEMS USING NONDESTRUCTIVE METHODS SUCH AS GROUND PENETRATING RADAR OR X-RAY.

CAST-IN-PLACE CONCRETE

1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH THE CURRENT CBC ADOPTED EDITION OF ACI 318, ACI 301, AND PROJECT SPECIFICATIONS.

2. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA UNLESS NOTED OTHERWISE:

LOCATION	MIN COMPRESSIVE STRENGTH AT 28 DAYS (f'c)	CONCRE TE TYPE	MAX AGGREGATE SIZE	MAX W/CM RATIO
FOUNDATIONS (UNO)	5,000 PSI	NORMAL-WEIGHT	1 1/2"	0.50
SLAB-ON-GRADE	4,000 PSI	NORMAL-WEIGHT	1"	0.45
ALL OTHER STRUCTURAL CONCRETE (UNO)	3,000 PSI	NORMAL-WEIGHT	1"	0.50

3. STRUCTURAL CONCRETE SHALL CONFORM TO PROJECT SPECIFICATIONS AND FOLLOWING REQUIREMENTS:
   A. MAXIMUM DRY UNIT WEIGHT OF LIGHT-WEIGHT CONCRETE SHALL NOT EXCEED 110 ± 3 PCF. MAXIMUM DRY UNIT WEIGHT OF NORMAL-WEIGHT CONCRETE SHALL NOT EXCEED 150 ± 3 PCF.
   B. WHEN PLASTICIZER OR WATER REDUCER IS USED, MAXIMUM SLUMP SHALL BE 4" PRIOR TO ADMIXTURE AND 8" INCLUDING ADMIXTURE AT THE POINT OF DISCHARGE. IN THE ABSENCE OF PLASTICIZER AND WATER REDUCER, SLUMP AT THE POINT OF DISCHARGE SHALL NOT EXCEED 4" IN FLATWORK AND 5" ELSEWHERE.
   C. WATER-CEMENTITIOUS MATERIAL (W/CM) RATIO INDICATES WATER TO CEMENTITIOUS MATERIALS RATIO.THE MAXIMUM WATER-CEMENTITIOUS MATERIAL (W/CM) RATIO FOR SLABS ON GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES SENSITIVE TO MOISTURE SHALL NOT EXCEED 0.45, WATER-CEMENTITIOUS MATERIAL (W/CM) RATIO FOR CONCRETE ON METAL DECK WITH VENTED FLUTES MAY BE 0.50. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE FINISHES SHALL BE COMPATIBLE WITH TILE AND ADHESIVES OR GROUTS IN ACCORDANCE WITH MANUFACTURER'S DATA.
   D. SLABS ON GRADE, TOPPING SLABS, AND ELEVATED CONCRETE FLOORS (INCLUDING CONCRETE ON METAL DECK) SHALL HAVE A MAXIMUM SHRINKAGE RATE OF 0.045% AT 28 DAYS PER ASTM C 157. SUBMIT SHRINKAGE TEST RESULTS AS PART OF CONCRETE MIX DESIGN FOR REVIEW AND APPROVAL BY SEOR.
   E. MAXIMUM AGGREGATE SIZE SHALL BE AS NOTED IN TABLE ABOVE, BUT NOT LARGER THAN LEAST OF ONE-FIFTH THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, ONE-THIRD THE DEPTH OF SLAB, AND THREE-FOURTH THE MINIMUM SPECIFIED CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR TENDONS.
   F. AGGREGATE GRADATION OF 3/8" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED WHERE FINISHED CONCRETE SURFACE IS EXPOSED TO VIEW.
   G. ALL CONCRETE ARE ASSIGNED TO EXPOSURE CLASSES F0, S0, W0 AND C0 AS DEFINED IN TABLE 19.3.1.1 OF ACI 318, UNLESS NOTED OTHERWISE. FOR CONCRETE IN CONTACT WITH GROUND, EXPOSURE CLASS S1 SHALL BE ASSIGNED. FOR CONCRETE AT OR BELOW WATER TABLE LEVEL (DATUM ELEV. 287.0'). EXPOSURE CLASS W1 SHALL BE ASSIGNED AND INTEGRAL WATER-PROOFING ADMIXTURE SHALL BE USED IN CONCRETE MIX DESIGN.

4. CONCRETE MIX PROPORTIONING SHALL BE BASED ON FIELD DATA AND/OR LABORATORY TRIAL MIXES AS REQUIRED BY CBC, ACI 318, ACI 214R AND ACI 301. THE CONCRETE SHALL BE WORKABLE AND MEET DURABILITY AND STRENGTH REQUIREMENT OF THE CODE. SUBMIT CONCRETE MIX PROPORTIONING DATA INCLUDING HISTORICAL STRENGTH RECORDS AND/OR LABORATORY TRIAL MIXES FOR EACH TYPE AND COMPRESSIVE STRENGTH PREPARED, SIGNED AND SEALED BY A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL BY AOR/SEOR AND DSA'S LABORATORY ACCEPTANCE PROGRAM (LEA) PRIOR TO CONCRETE PLACEMENT.

5. AGGREGATES IN NORMAL-WEIGHT CONCRETE SHALL BE HARD ROCK AND CONFORM TO ASTM C33. AGGREGATES IN LIGHT-WEIGHT CONCRETE SHALL BE EXPANDED SHALE AND CONFORM TO ASTM C330.

6. PORTLAND CEMENT SHALL BE TYPE I/II AND SHALL CONFORM TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.

7. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED BY FIELD EXPERIENCE OR TRIAL MIXTURES.

8. READY-MIXED CONCRETE SHALL BE BATCHED, MIXED AND DELIVERED IN CONFORMANCE WITH ASTM C94.
   A. ADMIXTURES SHALL CONFORM WITH THE FOLLOWING REQUIREMENTS: WATER REDUCER AND SETTING TIME MODIFICATION IN CONFORMANCE WITH ASTM C494 (TYPE F OR G) SUPERPLASTICIZER IN CONFORMANCE WITH ASTM C1017 (TYPE I OR II). AIR ENTRAINMENT IN CONFORMANCE WITH ASTM C260. INHIBITING CHLORIDE-INDUCED CORROSION IN CONFORMANCE WITH C1582.

9. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL OR CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.

10. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT. LOCATIONS OF ADDITIONAL CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED TO SEOR FOR APPROVAL PRIOR TO CONCRETE PLACEMENT.

11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

12. DRYPACK OR NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI, AND CONSIST OF MASTERFLOW 713, EUCON NS GROUT, SIKA GROUT 212, OR APPROVED EQUAL. FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA FINE AGGREGATES. FOR BASE PLATES LARGER THAN 6 SQUARE FEET, USE HI-FLOW GROUT OR MASTERFLOW 928.

13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.

14. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSION STRENGTH OF MINIMUM 75% f'c AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS.

15. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY SEOR.

16. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENING SIZES AND LOCATIONS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC.

17. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE SEOR.

18. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER OR 1/2" RADIUS TOOLED EDGE, UNO.

19. SUBMIT SHOP DRAWINGS INDICATING LOCATIONS OF CONCRETE CONSTRUCTION JOINTS TO SEOR FOR REVIEW AND APPROVAL PRIOR TO CONCRETE PLACEMENT. LOCATE CONSTRUCTION JOINTS TO MINIMIZE EFFECTS OF SHRINKAGE AND AT POINTS OF LOW STRESS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN BEAMS AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY SEOR PRIOR TO CONCRETE PLACEMENT.

20. PRIOR TO PLACING CONCRETE, REINFORCING BARS (INCLUDING WELDED WIRE REINFORCEMENT), EMBEDDED PLATES, ANCHOR BOLTS, AND OTHER CONCRETE EMBEDMENTS SHALL BE WELL SECURED IN POSITION.

21. CONCRETE PLACEMENT SHALL CONFORM TO ACI 304 AND CONTRACT DOCUMENTS. INTENTIONALLY ROUGHEN ALL PREVIOUSLY HARDENED CONCRETE SURFACES TO A FULL AMPLITUDE OF 1/4-INCH AGAINST WHICH FRESH CONCRETE IS PLACE.

22. CURING COMPOUNDS, SEALERS, HARDENERS, ETC., USED ON CONCRETE THAT RECEIVES A FINISH SHALL BE APPROVED BY THE ARCHITECT BEFORE USE.

STRUCTURAL SUBMITTALS

1. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE AOR AND SEOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO FABRICATION. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS INCLUDING COORDINATION WITH OTHER TRADES.

3. SHOP DRAWINGS SHALL BE SUBMITTED TO THE SEOR (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS), AND SHALL CONSIST OF EITHER ELECTRONIC FILES OR ONLY ONE SET FOR OUR RECORDS AND ONE REPRODUCIBLE SET.

4. SEOR WILL RETURN THE ELECTRONIC FILES OR REPRODUCIBLE SET CLEARLY MARKED WITH COMMENTS. ANY REQUIRED RECORD SET COPIES SHALL BE MADE FROM THIS RETURNED SET.

5. REPRODUCTION OF STRUCTURAL PLANS & DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS.

6. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND SEOR FOR APPROVAL.

7. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

8. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DOCUMENTS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE SEOR DEMONSTRATING EQUIVALENT QUALITIES OF THE MATERIAL TO BE SUBSTITUTED.

STRUCTURAL SUBMITTALS (CONTINUED)

THE FOLLOWING LIST SUMMARIZES IMPORTANT STRUCTURAL SUBMITTALS FOR THIS PROJECT.
REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

GENERAL
- QUALIFICATION DATA FOR APPROVED INSTALLERS AND FABRICATORS
- CERTIFICATES OF CONFORMANCE FOR PREFABRICATED MEMBERS

CONCRETE FORMWORK
- MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR PROPRIETARY MATERIALS INCLUDING FORM COATINGS, MANUFACTURED FORM SYSTEMS, TIES AND ACCESSORIES
- SHOP DRAWINGS FOR FABRICATION AND ERECTION OF FORMWORK AND SHORING

CONCRETE REINFORCEMENT
- MANUFACTURER'S PRODUCT DATA, SPECIFICATIONS AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT
- STEEL PRODUCER'S CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS
- SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT

CAST-IN-PLACE CONCRETE
- DESIGN MIX FOR EACH CONCRETE MIX
- MATERIAL TEST REPORTS
- MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES
- MANUFACTURER'S PRODUCT DATA FOR WATERSTOPS, BONDING AGENTS, VAPOR RETARDERS, JOINT FILLER, CURING MATERIALS AND FLOOR TREATMENTS
- SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS
- MINUTES FROM PREINSTALLATION CONFERENCE

STRUCTURAL STEEL
- MANUFACTURER'S MILL CERTIFICATES
- MILL TEST REPORTS
- SHOP DRAWINGS FOR FABRICATION AND ASSEMBLY OF MEMBERS
- ERECTION PLAN SEQUENCE AND PROCEDURES
- WELDING PROCEDURE SPECIFICATIONS (WPS)
- TEST REPORTS FOR SHOP AND FIELD WELDED AND BOLTED CONNECTIONS

ROUGH CARPENTRY
- PRODUCT DATA FOR TREATMENTS AND PRESERVATIVES
- MATERIAL CERTIFICATES FOR DIMENSION LUMBER

PREFABRICATED WOOD PRODUCTS
- SHOP DRAWINGS INDICATING LAYOUT & DETAILS
- ENGINEERING CALCULATIONS

ROUGH CARPENTRY WOOD FRAMING

1. DESIGN, FABRICATION AND ERECTION OF WOOD FRAMING SHALL CONFORM TO THE CURRENT CBC ADOPTED EDITION OF THE NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION AND SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC (SDPWS) BY AMERICAN WOOD COUNCIL (AWC).

2. ALL WORK SHALL BE IN CONFORMANCE WITH ANY AND ALL TESTING, INSPECTION, QUALIFICATION, AND QUALITY ASSURANCE PROVISIONS AS REQUIRED BY THE CALIFORNIA BUILDING CODE AND ANY APPLICABLE STANDARDS (LATEST ADOPTED EDITION OF CURRENT CBC).

3. ALL WOOD MEMBERS SHALL BE GRADED PER ASTM D245 AND COMPLY WITH USDOC PS 20. DOUGLAS FIR-LARCH (DF) SHALL BE FACTORY MARKED WITH WWPA OR WCLIB STAMP, OTHER SPECIES SHALL BE GRADED BY AN AGENCY CERTIFIED BY THE ALSC BOARD OF REVIEW.

4. GRADE SHALL BE AS SPECIFIED IN THE WOOD FRAMING GRADE SCHEDULE UNLESS NOTED OTHERWISE.

5. ALL LUMBER SHALL BE STAMPED "S-DRY" AND MOISTURE CONTENT OF SAWN LUMBER SHALL NOT EXCEED 19% WHEN FRAMING STARTS OR SHEATHING IS APPLIED. ANY NONCOMPLIANT WORK SHALL BE REJECTED AND REFRAMED WITH ACCEPTABLE LUMBER.

6. FRAMING MEMBER GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS:

VERTICAL FRAMING MEMBERS	
2x4 STUDS, 4x4 POST	CONSTRUCTION
2x6 STUDS AND WIDER, 4x6 POST AND WIDER	NO.1
5x5 POST AND LARGER	NO.1
ALL OTHER VERTICAL MEMBERS	NO.2

HORIZONTAL FRAMING MEMBERS	
2" AND 3" THICKNESS	NO.1
HEADERS IN NON-BEARING WALLS SPANNING LESS THAN 4 FT	NO.2
ALL OTHER HORIZONTAL MEMBERS	NO.1

7. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED. PROVIDE GALVANIZED OR STAINLESS STEEL FASTENERS AND HARDWARE CONNECTORS AT PRESSURE TREATED LUMBER INCLUDING (BUT NOT LIMITED TO) ANCHOR BOLTS, NAILS, WASHERS, PLATES, HANGERS, CLIPS, HOLD-DOWNS, ETC.

8. PLYWOOD SHALL BE STRUCTURAL 1, EXPOSURE 1, COMPLYING WITH DOC PS-1 AND PS-2 AND THE APPLICABLE STANDARDS LISTED IN CBC SECTION 2306.1. EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF AN APPROVED TESTING AND GRADING AGENCY.

9. NAILS SHALL BE COMMON WIRE NAILS CONFORMING TO ASTM F1667. UNLESS OTHERWISE NOTED ON THE DRAWINGS, NAILING SHALL COMPLY WITH CBC TABLE 2304.9.1, FASTENING SCHEDULE.

10. BOLTS SHALL CONFORM TO ASTM A307. BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN THE NOMINAL BOLT DIAMETER. PROVIDE STANDARD CUT PLATE WASHERS UNDER BOLT HEADS AND NUTS AGAINST WOOD. RETIGHTEN ALL BOLTS PRIOR TO CLOSING IN.

11. LAG SCREWS SHALL CONFORM TO ANSI/ASME B18.2.1. LAG SCREWS MUST BE INSERTED IN PREDRILLED HOLES. HOLE AT SHANK PORTION TO MATCH DIAMETER OF SHANK. HOLE AT THREADED PORTION TO BE 60 TO 70 PERCENT OF THE SHANK DIAMETER AND EQUAL TO LENGTH OF THE THREADED PORTION. USE SOAP OR OTHER LUBRICANTS TO FACILITATE INSTALLATION. DRIVING WITH HAMMER IS NOT PERMITTED. PROVIDE STANDARD CUT PLATE WASHERS LAG SCREW HEADS AGAINST WOOD.

12. ANCHOR BOLTS INTO CONCRETE OR CMU SHALL CONFORM TO ASTM F1554, GRADE 36, UNO.

13. WOOD CONNECTORS AND HOLD-DOWNS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY INC. CONNECTORS SHALL HAVE CURRENT ICC-ES EVALUATION REPORTS. CONNECTORS, HANGERS AND STRAPS SHALL BE FULLY BOLTED OR NAILED TO DEVELOP FULL STRENGTH PER MANUFACTURER'S SPECIFICATIONS.

14. GROUT SILL PLATES IF NECESSARY TO ACHIEVE FULL BEARING. ATTACH SILL PLATES TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 4'-0" MAXIMUM UNLESS OTHERWISE NOTED. AT CORNERS, INTERSECTIONS, DOOR OPENINGS, SILL ENDS, AND CUTS EXCEEDING 1/3 THE SILL WIDTH, PLACE AN ANCHOR BOLT NOT MORE THAN 9" FROM THE NOTCH OR SILL END. ANCHOR BOLTS SHALL BE EMBEDDED A MINIMUM OF 8" INTO CONCRETE.

15. DOUBLE TOP PLATES ON ALL EXTERIOR AND BEARING WALLS SHALL BE LAPPED 4'-0" MINIMUM AT SPLICES AND NAILED WITH 8-16d NAILS, MINIMUM, EACH SIDE OF LAP, UNLESS OTHERWISE NOTED,

16. ALL HORIZONTAL FRAMING MEMBERS SHALL BE ERECTED WITH NATURAL OR BUILT-IN CAMBER UPWARD.

17. NOTCHING OR CUTTING OF STRUCTURAL LUMBER IS NOT PERMITTED UNLESS SPECIFICALLY DETAILED OR INDICATED. OBTAIN ARCHITECT'S (STRUCTURAL ENGINEER'S) APPROVAL FOR HOLES OR NOTCHES NOT DETAILED.
    A. CUTTING, NOTCHING AND BORED HOLES IN WOOD STUDS SHALL COMPLY WITH CBC SECTIONS 2308.9.10 AND 2308.9.11.
    B. NOTCHING AND BORED HOLES IN WOOD JOISTS AND RAFTERS SHALL COMPLY WITH CBC SECTION 2308.8.2.

18. LATERAL SUPPORT OF JOISTS AND RAFTERS SHALL COMPLY WITH CBC SECTION 2308.8.2. JOISTS/RAFTERS SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY SOLID BLOCKING EXCEPT WHERE THE ENDS OF THE JOISTS/RAFTERS ARE NAILED TO A HEADER OR RIM JOIST OR TO AN ADJOINING STUD OR BY OTHER APPROVED MEANS. SOLID BLOCKING SHALL NOT BE LESS THAN 2 INCHES IN THICKNESS AND THE FULL DEPTH OF THE JOIST/RAFTER. IN ADDITION, SOLID BLOCKING SHALL BE PROVIDED AS FOLLOWS:
    A. FLOOR AND ROOF JOISTS SHALL BE BLOCKED AT 8'-0" OC.
    B. UNDER SUPPORTED TRANSVERSE PARTITIONS PERPENDICULAR TO THE JOIST.

19. PROVIDE DOUBLE JOIST UNDER ALL SUPPORTED PARTITION RUNNING PARALLEL TO THE FLOOR FRAMING.

20. WOOD STUD WALLS SHALL COMPLY WITH THE FOLLOWING:
    A. STUD WALL BRACING IN STUD WALLS NOT PLYWOOD SHEATHED SHALL COMPLY WITH CBC SECTION 2308.9.3.1.
    B. FIREBLOCKING SHALL BE IN ACCORDANCE TO CBC SECTION 718.2.
    C. STUDS TO BE SPACED AT 16" OC MAXIMUM.

ROUGH CARPENTRY WOOD FRAMING (CONTINUED)

21. BEAMS OR DRAG-STRUTS CONSISTING OF DOUBLE JOISTS SHALL BE LAMINATED TOGETHER WITH 16d NAILS AT 9" OC STAGGERED. BEAM OR DRAG-STRUT CONSISTING OF THREE OR MORE JOISTS SHALL BE LAMINATE TOGETHER WITH 1/2-INCH DIAMETER BOLTS AT 24" OC STAGGERED.

22. POSTS AND STUDS SHALL BEAR ON SILL PLATES UNLESS OTHERWISE NOTED.

23. ALL WALLS NOT OTHERWISE BRACED SHALL HAVE 1x6 DIAGONAL LET-IN BRACING AT 25 FEET INTERVALS. EACH BRACE SHALL COVER 3 STUD SPACES MINIMUM AND BE ATTACHED TO TOP AND BOTTOM PLATES WITH 3-8d NAILS.

24. FIREBLOCKED WALLS SHALL BE FIREBLOCKED SUCH THAT NO SPACE EXCEEDS 8 FEET IN HEIGHT. STAIR STRINGERS SHALL BE FIREBLOCKED AT EACH END AND AT MIDHEIGHT.

25. WHERE STUD WALLS JOIN CONCRETE OR MASONRY WALLS, THE END STUD SHALL BE BOLTED THERETO WITH 1/2" DIAMETER BOLTS AT TOP, BOTTOM AND MIDHEIGHT. SUCH BOLTS SHALL BE EMBEDDED INTO THE WALL NOT LESS THAN 2/3 THE THICKNESS OF THE WALL OR 8" MAXIMUM.

26. PLYWOOD SHALL BE APPEARANCE GRADE MARKED C OR D. HORIZONTAL PLYWOOD SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO JOISTS. FLOOR AND ROOF SHEATHING SHALL HAVE A PANEL INDEX OF 32/16 UNLESS OTHERWISE NOTED.

27. NAILING OF PLYWOOD TO BE APPROVED BY THE INSPECTOR BEFORE COVERING WITH ROOF, FLOOR OR WALL MATERIALS.

28. MACHINE APPLIED (PNEUMATIC) NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION AND TO THE APPROVAL OF THE GOVERNING CODE AUTHORITY AND THE ARCHITECT (STRUCTURAL ENGINEER). THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE APPLIED NAILING MAY BE USED ONLY ON PLYWOOD GREATER THAN 5/16" THICK. SHINERS SHALL BE REPLACED. IF NAIL HEADS PENETRATE THE OUTER PLY BY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND MACHINE NAILING SHALL BE DISCONTINUED.

29. REFER TO "WOOD FRAMING NAILING SCHEDULE" FOR MINIMUM CONNECTIONS REQUIREMENTS.

30. MOISTURE CONTENT OF SAWN LUMBER SHALL NOT EXCEED 19% WHEN FRAMING STARTS OR SHEATHING IS APPLIED. ANY NONCOMPLIANT WORK SHALL BE REJECTED AND REFRAMED WITH ACCEPTABLE LUMBER.

31. ARCHITECTURALLY EXPOSED TIMBERS 4" NOMINAL IN THE LEAST DIMENSION SHALL NOT CONTAIN BOXED HEART.

32. ALL CONNECTORS THAT ARE EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED, STAINLESS STEEL OR AN EQUIVALENT APPROVED BY THE SEOR.

ABBREVIATIONS

A	
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
B	
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
BO	BOTTOM OF
BOTT, (B)	BOTTOM
BTWN	BETWEEN
C	
C	CAMBER
CIP	CAST IN PLACE
CJ	CONTROL/CONSTRUCTION JOINT
CJP, CP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR(D)	CENTER(ED)
CY	CUBIC YARDS
D	
DB	BAR DIAMETER
DBL	DOUBLE
DC	DEMAND CRITICAL
DEMO	DEMOLISH, DEMOLITION
DIA, DIAM	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DO	DITTO
DWG	DRAWING
E	
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION, ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAIL
EO	EDGE OF
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST, (E)	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	
FLR	FLOOR
FN	FIELD NAILING
FND	FOUNDATION
FO	FACE OF
FS	FAR SIDE
FT	FOOT, FEET
FTG	FOOTING
G	
GA	GAUGE
GALV	GALVANIZED
GLBM, GB	GLUED-LAMINATED BEAM
GR	GRADE
GRBM	GRADE BEAM
H	
HK	HOOK
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
I	
ID	INSIDE DIAMETER
IN	INCH
INT	INTERIOR

ABBREVIATIONS

J	
JT	JOINT
K	
K, KIP(S)	KILOPOUND
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	
L	ANGLE
LB, LBS	POUND(S)
LF	LINEAR FEET
LFRS	LATERAL FORCE RESISTING SYSTEM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
M	
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURE
MIN	MINIMUM
MW	MEDIUM WEIGHT
N	
(N)	NEW
NDT	NON-DESTRUCTIVE TESTING
NS	NEAR SIDE
NTS	NOT TO SCALE
NW(C)	NORMAL WEIGHT (CONCRETE)
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPP	OPPOSITE
P	
PAF, PDF	POWDER DRIVEN/POWER ACTUATED FASTENER
PJP, PP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUND PER LINEAR FOOT
PSF	POUND PER SQUARE FOOT
PSI	POUND PER SQUARE INCH
PT	PRESSURE TREATED WOOD, POST/PRE-TENSIONED
R	
R	RADIUS
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
S	
(S)EOR	(STRUCTURAL) ENGINEER OF RECORD
SC	SLIP CRITICAL
SCHED	SCHEDULE
SDS, SMS	SELF-DRILLING / SHEET METAL SCREW
SFRS	SEISMIC FORCE RESISTING SYSTEM
SIM	SIMILAR
SN	SILL NAILING
SOG	SLAB ON GRADE
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
T	
T&B	TOP & BOTTOM
TO	TOP OF
TYP	TYPICAL
U	
UNO	UNLESS NOTED OTHERWISE
V	
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WP	WORK POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

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DATE: 08/14/2024

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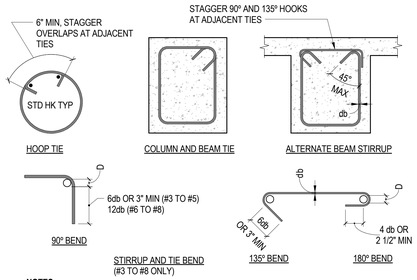
ISSUE DESCRIPTION

	DSA SUBMITTAL	01.12.24

SHEET TITLE
GENERAL NOTES

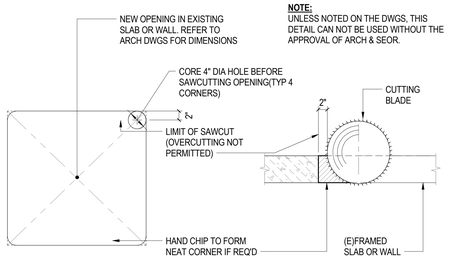
SHEET NUMBER
S002



NOTES:
1. MINIMUM INSIDE BEND DIAMETER:
   D = 4db FOR #3 TO #5
   D = 6db FOR #6 TO #8
2. SEE TYPICAL LAP SPLICE SCHEDULE DETAIL FOR STANDARD HOOK DIMENSIONS.

TYPICAL REBAR STIRRUP, TIE AND HOOP BEND DETAIL

13 — SCALE: NTS — DETAIL ID: CON-REBAR-01 — S101



NOTE:
UNLESS NOTED ON THE DWGS, THIS DETAIL CAN NOT BE USED WITHOUT THE APPROVAL OF ARCH & SEOR.

TYPICAL SAWCUT OPENING

14 — SCALE: 1" = 1'-0" — DETAIL ID: CON-SCSO-01 — S101

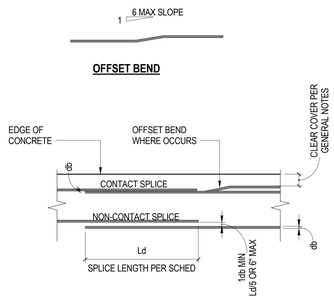
LAP SPLICE LENGTH (CLASS B)												
BAR SIZE	f'c = 3,000 PSI				f'c = 4,000 PSI				f'c = 5,000 PSI			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	28	42	22	32	24	36	19	28	22	33	17	25
#4	37	56	29	43	32	48	25	37	29	43	22	33
#5	47	70	36	54	40	60	31	47	36	54	28	42
#6	56	84	43	64	48	72	37	56	43	65	33	50
#7	81	122	63	94	70	106	54	81	63	94	49	73
#8	93	139	72	107	80	121	62	93	72	108	55	83
#9	105	157	81	121	91	136	70	105	81	122	63	94
#10	118	177	91	136	102	153	79	118	91	137	70	105
#11	131	196	101	151	113	170	87	131	101	152	78	117

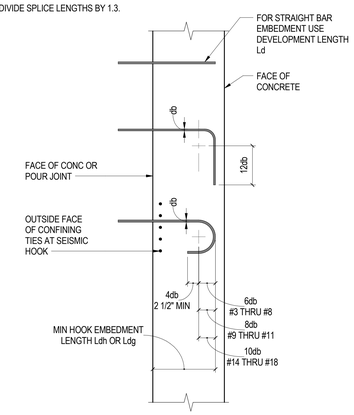
HOOK EMBEDMENT LENGTH (Ldh)						
BAR SIZE	f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI	
	STD HOOK DEVELOPMENT LENGTH Ldh (IN)	CONFINED HOOK LENGTH Ldg (IN)	STD HOOK DEVELOPMENT LENGTH Ldh (IN)	CONFINED HOOK LENGTH Ldg (IN)	STD HOOK DEVELOPMENT LENGTH Ldh (IN)	CONFINED HOOK LENGTH Ldg (IN)
#3	6	6	6	6	6	6
#4	8	6	7	6	6	6
#5	10	8	9	7	8	6
#6	12	10	10	8	9	7
#7	14	11	12	10	11	9
#8	16	13	14	11	2	10
#9	18	14	15	12	14	11
#10	20	16	17	14	15	12
#11	22	18	19	15	17	14

NOTES:
1. ALL LAP SPLICES SHALL BE CLASS B UNO. LENGTHS ARE IN INCHES.
2. VALUES ARE BASED ON GRADE 60 (Fy=60 KSI) REINFORCING.
3. TOP BARS REFERS TO HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE PLACED BELOW REINFORCING BAR DURING POUR. OTHER BARS ARE ALL BOTTOM BARS ARE HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE PLACED BELOW REINFORCING BAR DURING POUR AND ALL VERTICAL BARS.
4. WHERE REQUIRED EMBEDMENT CANNOT BE ACHEIVED WITH STRAIGHT BARS, PROVIDE 180 OR 90 DEGREE HOOKS WITH ADEQUATE HOOKED BAR EMBEDMENT.
5. FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABULATED VALUES BY 1.33.
6. TABULATED VALUES SHALL BE MULTIPLIED BY 1.25 FOR ALL SPLICES OF CHORD BARS, VERTICAL BOUNDARY REINFORCING SPLICES, AND DRAG BAR EMBEDMENT OR SPLICE.
7. SEE BUILDING CODE AND LATEST VERSION OF ACI FOR ALL REQUIREMENTS NOT NOTED.
8. FOR EPOXY COATED REINFORCEMENT, SEE CURRENT BUILDING CODE FOR ADJUSTMENT FACTORS.
9. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF THE DEVELOPMENT LENGTH Ld OF THE LARGER BAR AND THE TENSION LAP SPLICE LENGTH OF THE SMALLER BAR.
10. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE TO THE OPPOSITE FACE WITH A MINIMUM 2" END COVER AND EMBEDMENT NOT LESS THAN THE SCHEDULE.
11. CASE #1 AND #2 ARE DEFINED AS FOLLOWS:

    CASE #1 = CONCRETE COVER IS AT LEAST 1.0db AND CENTER-TO-CENTER SPACING IS AT LEAST 2.0db
    CASE #2 = CONCRETE COVER IS LESS THAN 1.0db OR CENTER-TO-CENTER SPACING IS LESS THAN 2.0db

12. FOR CLASS A STRAIGHT DEVELOPMENT LENGTHS, Ld, DIVIDE SPLICE LENGTHS BY 1.3.





TYPICAL LAP SPLICE AND HOOK LENGTH SCHEDULE

2 — SCALE: NTS — DETAIL ID: CON-REBAR-01 — S101

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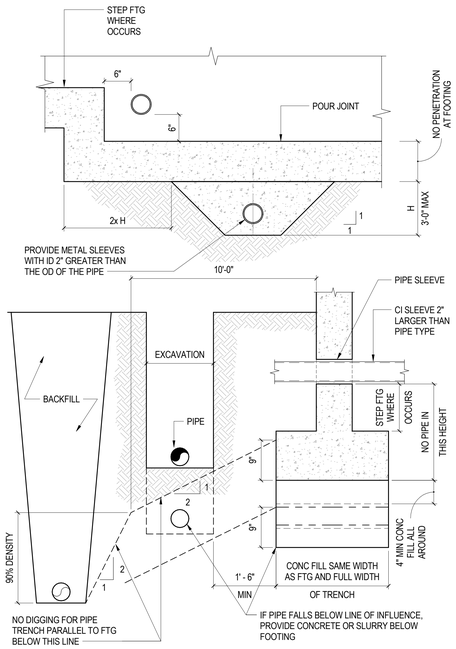
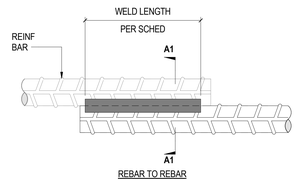
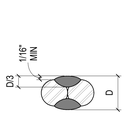
NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS AND GEOTECHNICAL REPORT.
2. CONCRETE FILL TO BE MADE BEFORE FOOTING IS POURED.
3. PIPES GREATER THAN 8" IN SIZE, BUNDLES OR BANKS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL PLANS ARE NOT ALLOWED TO BE PLACED WITHOUT OBTAINING EOR APPROVAL
4. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
5. IF REQUIREMENTS AS SHOWN CANNOT BE MET, STEP FOOTING PER TYPICAL STEPPED FOOTING DETAIL
6. PIPES MORE THAN 3'-0" BELOW BOTTOM OF FOOTING TRENCH MAY BE BACKFILLED WITH CONTROLLED, COMPACTED FILL.

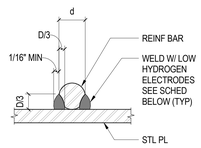


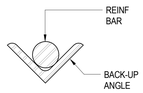
TYPICAL PIPE AT CONCRETE FOOTINGS

16 — SCALE: 1" = 1'-0" — DETAIL ID: CON-FTNG-03 — S101





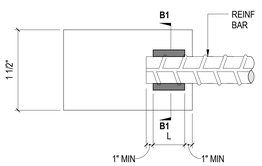


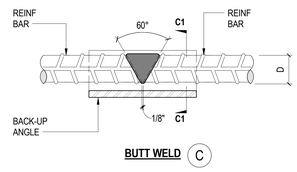


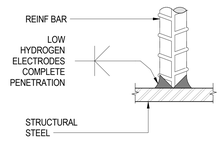
NOTE:
1. #8 BAR & LARGER SHALL BE BUTT WELDED.
2. NO WELDING WITHIN 1" OF BEGINNING OF BAR BEND.
3. SEE GENERAL NOTE; REINFORCING STEEL NOTE _

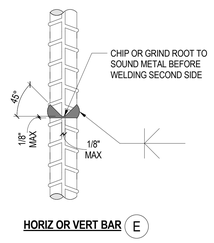
MINIMUM WELD REQUIREMENT FOR LAP WELDING		
BAR SIZE	WELD DIAGRAM	WELD LENGTH (EACH SIDE), L
#3	A1	2"
#4		2 1/2"
#5		3"
#6	B1	3 1/2"
#7		4"

LAP WELD SCHEDULE		
BAR SIZE	WELD DIAGRAM	WELD LENGTH (EACH SIDE)
#3	A1	2"
#4		2 1/2"
#5		3"
#6	B1	3 1/2"
#7		4"









NOTES:
1. WELDING OF REINFORCING STEEL:
   FIELDING WELDING OF REINFORCING SHALL BE PREFORMED BY WELDERS SPECIFICALLY CERTIFIED FOR REINFORCING STEEL. PRIOR TO WELDING, THE CARBON EQUIVALENT (CE) OF STEEL SHALL BE DETERMINED. A CERTIFIED MILL TEST REPORT WILL SATISFY THIS REQUIREMENT. REINFORCING STEEL WHOSE CE CANNOT BE INDENTIFIED OR WHOSE CE EXCEEDS 0.75% SHALL NOT BE WELDED. REINFORCING STEEL SHALL BE PREHEATED ACCORDING TO AWS REQUIREMNETS.
   IN ADDITION, STEEL WITH CE BETWEEN 0.66% and 0.75% SHALL BE WELDED ONLY WHERE PRIOR QUALIFICATION TESTS VERIFY ACCEPTABLE WELDABILITY. CARBON EQUIVALANCY DETERMINATION IS WAIVED FOR REINFORCING STEEL CONFORMING TO ASTM A706.
2. WELDING OF REBAR PERMITTED WHERE SPECIFICALLY DETAILED PER DRAWINGS.
3. PRIOR APPROVAL BY SEOR REQUIRED WHERE REBAR WELDING IS REQUESTED BY GC.
4. VERIFY WITH THE GOVERNING AGENCY THAT WELDS ARE PREQUALIFIED BEFORE PROCEEDING WITH THE WORK. GC IS RESPONSIBLE FOR REQUIRED TESTS NEEDED FOR QUALIFICATION.

TYPICAL WELDED REINFORCING BARS

4 — SCALE: NTS — DETAIL ID: CON-REBAR-02 — S101

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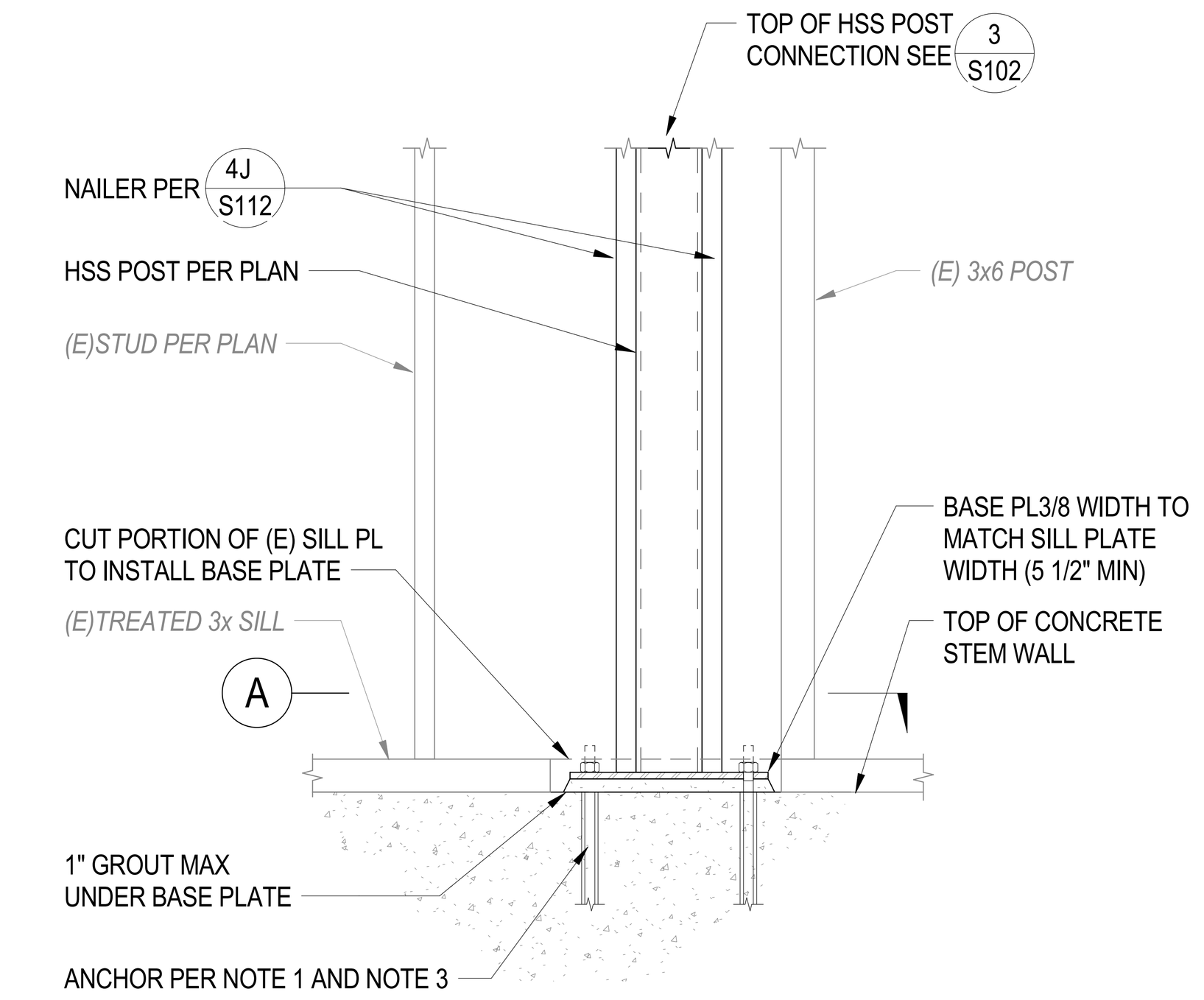
ISSUE DESCRIPTION	
DSA SUBMITTAL	01.12.24

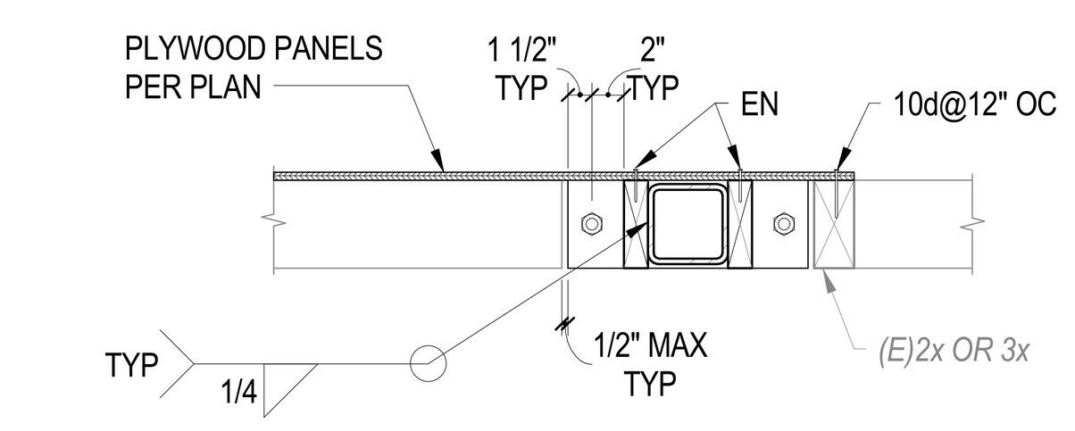
SHEET TITLE
CONCRETE TYPICAL DETAILS

SHEET NUMBER
S101

8/2/2024 11:59:41 AM

Received By PCM3 on 08/19/2024





SECTION (A)

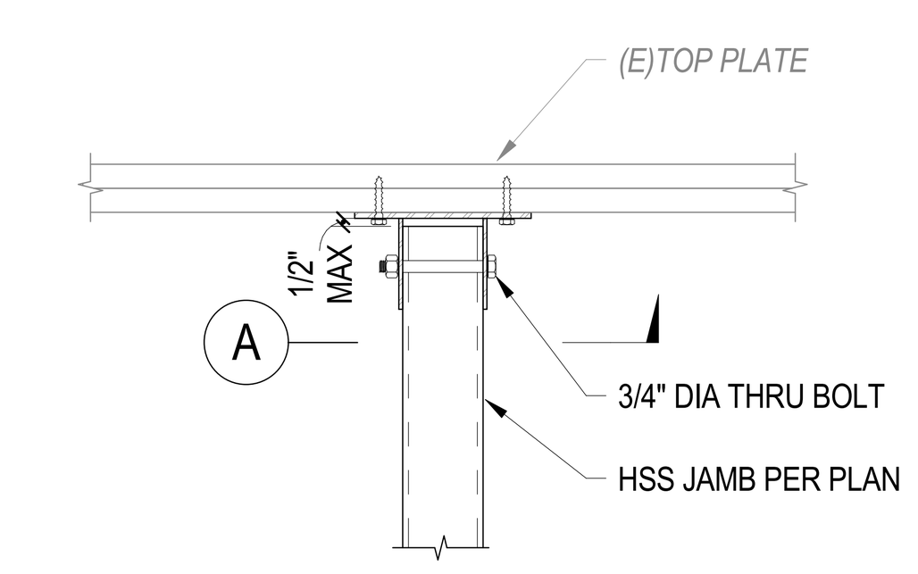
NOTES:

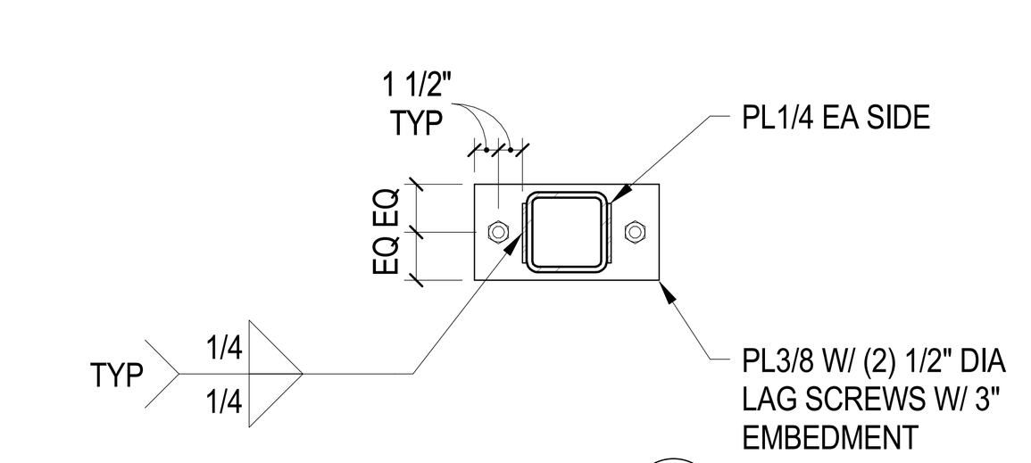
1. PROVIDE DIAMETER OF ANCHOR WHERE HSS OCCURS WHERE SHOWN THUS ON PLAN:

   INDICATES SIZE OF HSS POST — HSS D:1/2" — INDICATES DIAMETER OF EPOXY ANCHOR

2. FOR ANCHOR BOLTS USE ASTM F1554 GRADE 105 KSI.
3. REFER TO JAMB SECTION ON SHEET S104 WHICH ARE REFERENCED ON PLANS FOR ANCHOR BOLT EMBEDMENT.

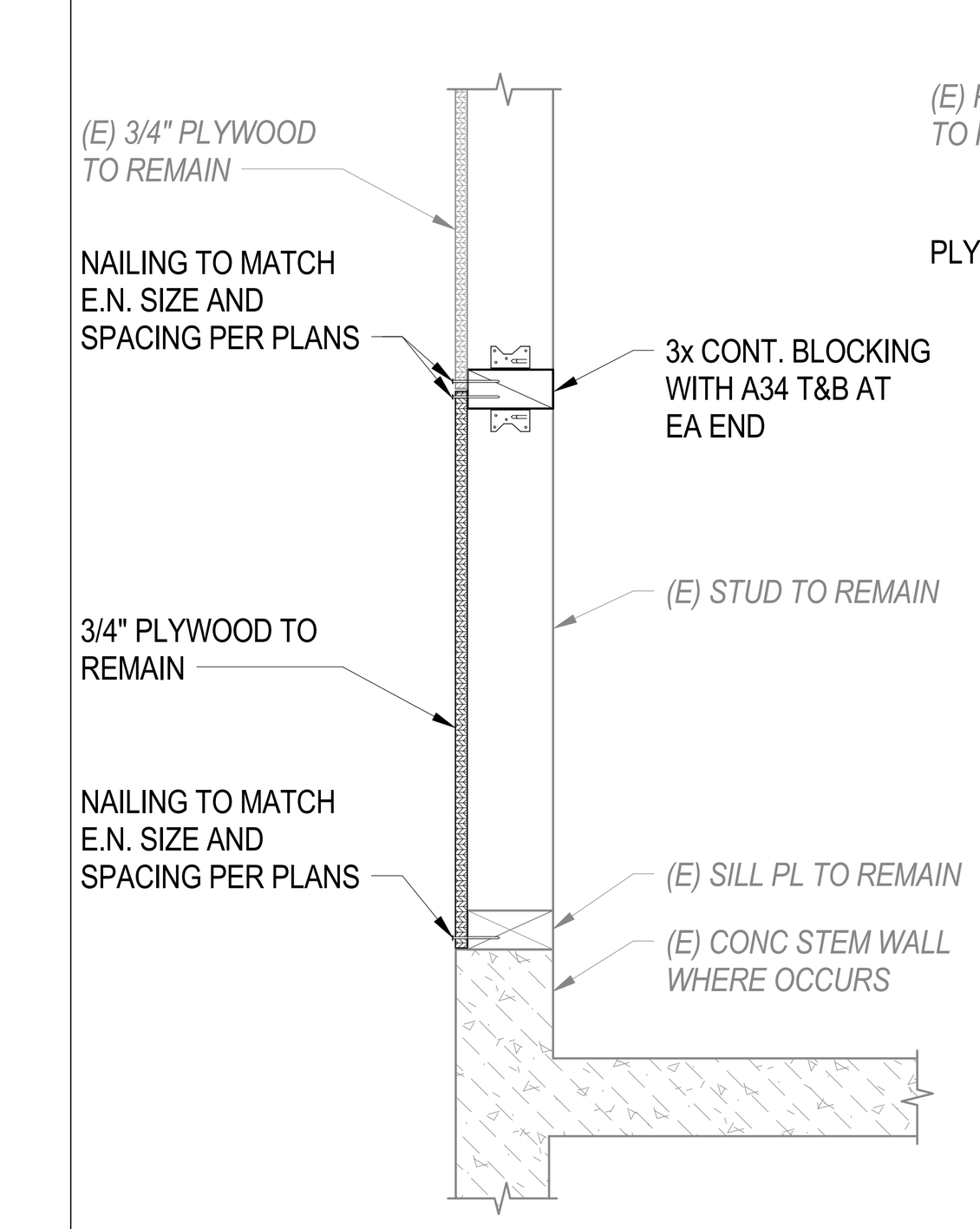
HSS POST BASE ANCHORAGE CONNECTION DETAIL
2 / S102 — SCALE: 1" = 1'-0"

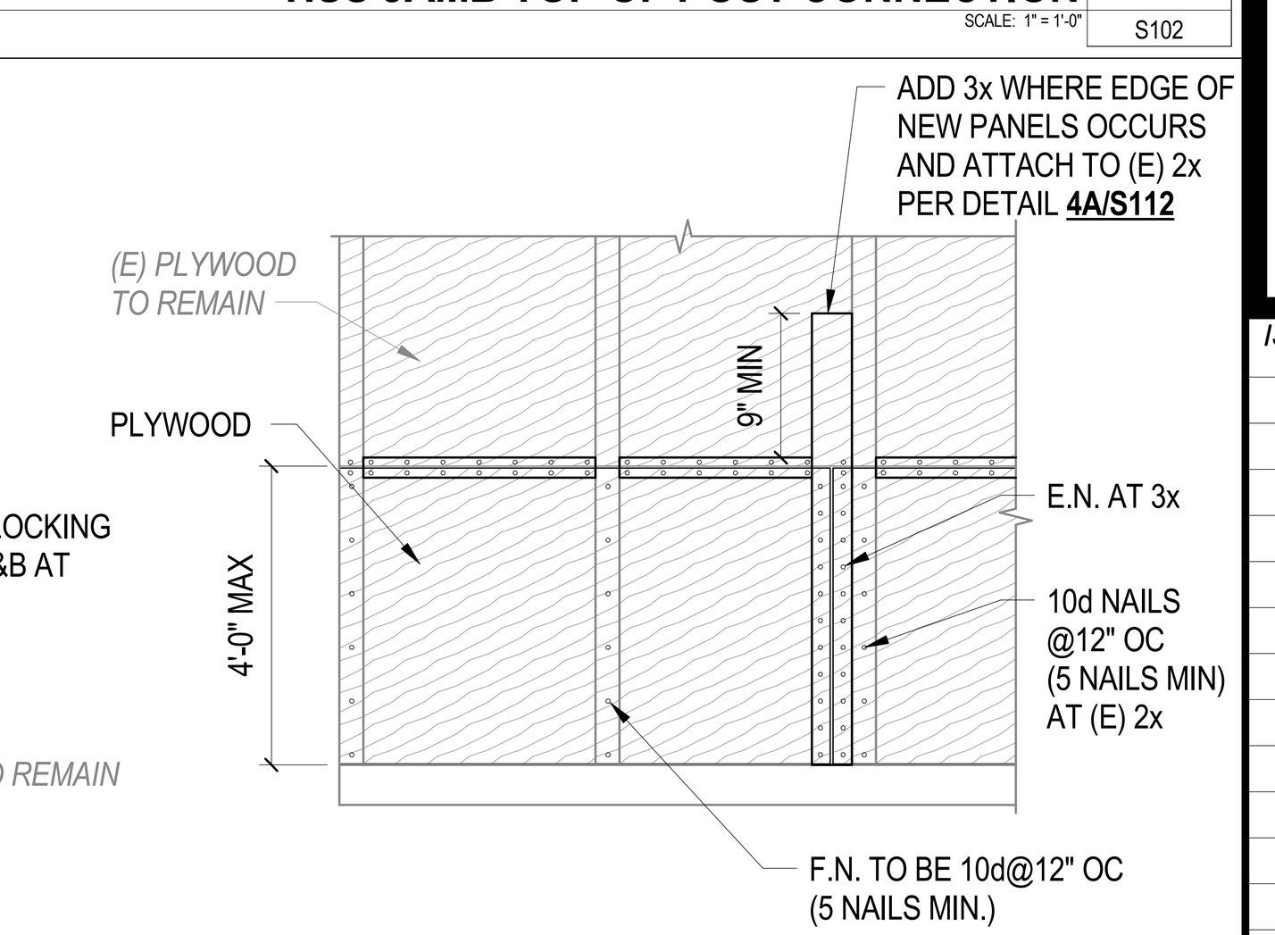




SECTION (A)

HSS JAMB TOP OF POST CONNECTION
3 / S102 — SCALE: 1" = 1'-0"





PARTIAL ELEVATION

REPLACED PORTION OF PLYWOOD PANEL DETAILS
4 / S102 — SCALE: 1" = 1'-0"

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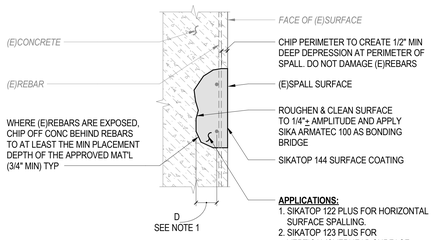
ISSUE DESCRIPTION	
DSA SUBMITTAL	01.12.24

SHEET TITLE
CONCRETE TYPICAL DETAILS

SHEET NUMBER
S102



NOTES:
1. WHEN D < 1 1/2" SEE APPLICATION ABOVE.
   WHEN 4" > D > 1 1/2":
   a. ADD 3/8" COARSE AGGREGATE FOR SIKATOP 122 PLUS APPLICATIONS.
   b. APPLY SIKATOP 123 PLUS IN LIFTS.
2. ALL MANUFACTURERS PRINTED INSTRUCTIONS SHALL BE FOLLOWED.
3. REMOVE ANY REBAR CORROSION. NOTIFY SEOR IF LOSS OF MORE THAN 15% OF (E)BAR SECTION IS FOUND.

TYPICAL SPALL REPAIR DETAIL

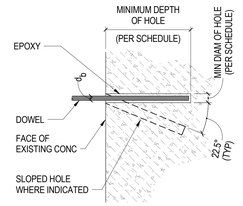
9

SCALE: 1 1/2" = 1'-0"
DETAIL ID: EAS-CONC-SPALL

S103

REBAR SIZE, ASTM A615 GRADE 60	MIN HOLE DIAM	MIN DEPTH	TENSION TEST LOAD	THREADED ROD DIAMETER, ASTM A36	MIN HOLE DIAM	MIN DEPTH	TENSION TEST LOAD
#3	1/2"	3"	2.8 KIPS	3/8"	7/16"	3 1/2"	2.5 KIPS
#4	5/8"	4"	4.4 KIPS	1/2"	9/16"	4 1/2"	4.3 KIPS
#5	3/4"	6"	5.8 KIPS	5/8"	11/16"	6"	5.8 KIPS
#6	1"	12"	8.5 KIPS	3/4"	13/16"	6 3/4"	9.0 KIPS
#7	1 1/8"	16"	11.7 KIPS	7/8"	15/16"	8"	11.5 KIPS
#8	1 1/4"	18"	13.8 KIPS	1"	1 1/16"	10"	19.4 KIPS
#9	1 3/8"	21"	23.0 KIPS	1 1/4"	1 5/16"	11 1/4"	22.9 KIPS

NOTES:
UNLESS NOTED/ REFERENCED ON THE DETAILS/DRAWINGS, EPOXY ANCHORS SHALL NOT BE USED TO REPLACE CAST-IN-PLACE ANCHORS.



NOTES:
1. ALLOWABLE EPOXY TYPES: HILTI RE 500 V3 (ICC ESR-3814), HILTI HIT-HY 200 (ICC ESR-3187)
2. UNO INSTALL PER MANUFACTURERS RECOMMENDED SPECIFICATIONS. HOLE SHALL BE THOROUGHLY CLEANED AND ANCHOR SHALL BE FREE OF ANY MATERIAL THAT SHALL IMPAIR BOND TO CONCRETE.
3. THE TABULATED INSTALLATION AND TEST VALUES PERTAIN TO USE IN HARDROCK CONCRETE WITH A MINIMUM STRENGTH OF 3,000 PSI.
4. WHEN INSTALLING DRILLED-IN ANCHORS IN NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE REINFORCING BARS OR OTHER EMBEDDED ITEMS SUCH AS ELECTRICAL/TELECOMMUNICATIONS CONDUIT AND GAS LINES. WHEN INSTALLING DRILL-IN ANCHORS INTO PRESTRESSED CONCRETE (PRE OR POST-TENSIONED), LOCATE TENDONS DURING INSTALLATION BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.
5. DRILLED EPOXY ANCHORS SHALL BE USED ONLY WHERE DETAILED.
6. WHERE SPECIFIED ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE PROVIDED, NOTIFY SEOR AND IOR PRIOR TO INSTALLATION.
7. SPECIAL INSPECTION REQUIRED PER CBC TABLE 1705.3.
8. INSTALLERS PLACING HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS ADHESIVE ANCHORS SHALL BE CERTIFIED BY ACI OR APPROVED EQUIVALENT.
9. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE SPECIAL INSPECTOR OR INSPECTOR OF RECORD.
10. FOR LOCATIONS WHERE TENSION TEST VALUES ARE NOT SPECIFIED IN THE DRAWINGS, CONSULT WITH THE SEOR.
11. TESTING OF EPOXY DOWELS AT JOINTS BETWEEN NEW AND EXISTING SLABS-ON-GRADE OR #3 BARS AT CONCRETE CURBS IS NOT REQUIRED.
12. EPOXY DOWELS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.
13. FOR EPOXY DOWELS EXPOSED TO WEATHER, GROUND OR THREATED WOOD, SEE NOTE #6 OF THE STEEL GENERAL NOTES SECTION ON SHEET S001.

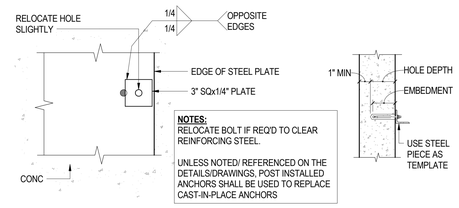
TYPICAL HILTI EPOXY DOWEL ANCHOR DETAIL

6

SCALE: NTS
DETAIL ID: CON-HILTI-02

S103

TYPICAL ANCHOR INSTALLATION DESIGN AND TEST VALUES							
BOLT DIAMETER	3/8"	1/2"		5/8"		3/4"	
MIN EFFECTIVE EMBEDMENT	2"	2"	3 1/4"	3 1/4"	4"	3 3/4"	4 3/4"
MIN HOLE DEPTH	2 3/4"	2 3/4"	4 1/4"	4 1/4"	4 3/4"	4 3/4"	5 3/4"
MIN MEMBER THICKNESS	4"	4"	6"	5"	6"	6"	8"
INSTALLATION TORQUE CARBON STEEL	30 FT-LBS	50 FT-LBS		40 FT-LBS		110 FT-LBS	
INSTALLATION TORQUE STAINLESS STEEL	30 FT-LBS	40 FT-LBS		60 FT-LBS		125 FT-LBS	



NOTES:
RELOCATE BOLT IF REQ'D TO CLEAR REINFORCING STEEL.

UNLESS NOTED/ REFERENCED ON THE DETAILS/DRAWINGS, POST INSTALLED ANCHORS SHALL BE USED TO REPLACE CAST-IN-PLACE ANCHORS

ANCHOR RELOCATION DETAIL **ANCHOR AT WALL OR SLAB**

NOTES:
1. ALLOWABLE EXPANSION ANCHOR TYPES: HILTI KB-TZ2 (ICC ESR-4266).
2. UNO INSTALL ANCHORS PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
3. THE TABULATED INSTALLATION AND TEST VALUES PERTAIN TO USE IN HARDROCK CONCRETE, LIGHT-WEIGHT CONCRETE AND CONCRETE FILL OVER METAL DECK. CONCRETE FILL OVER METAL DECK SHALL CONSIST OF 20GA
   MINIMUM METAL DECK WITH EITHER HARD ROCK OR LIGHT WEIGHT CONCRETE. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI.
4. WHEN INSTALLING DRILLED-IN ANCHORS IN NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION
   TO AVOID CUTTING OR DAMAGING THE REINFORCING BARS OR OTHER EMBEDDED ITEMS SUCH AS ELECTRICAL/TELECOMMUNICATIONS CONDUIT AND GAS LINES. WHEN INSTALLING DRILL-IN ANCHORS INTO PRESTRESSED CONCRETE (PRE OR POST-TENSIONED), LOCATE TENDONS DURING INSTALLATION BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.
5. DRILLED EXPANSION TYPE ANCHOR BOLTS SHALL BE USED ONLY WHERE DETAILED OR FOR ATTACHMENT OF MECH, ELECTRICAL, OR MISC ACCESSORIES OR EQUIPMENT TO THE STRUCTURE.
6. WHERE EDGE DISTANCE AND SPACING IS NOT SHOWN ON DETAILS, REFER ICC ESR REPORT FOR MINIMUM VALUES. WHERE SPECIFIED ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE PROVIDED, NOTIFY SEOR AND IOR PRIOR TO INSTALLATION.
7. SPECIAL INSPECTION REQUIRED PER CBC TABLE 1705.3.
8. USE STAINLESS STEEL ANCHORS FOR CONDITIONS EXPOSED BUILDING EXTERIOR, MOISTURE, AND WHERE SPECIFIED.

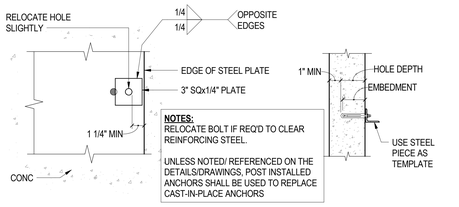
TYPICAL HILTI CONCRETE EXPANSION ANCHOR DETAIL

2

SCALE: NTS
DETAIL ID: CON-HILTI-01

S103

TYPICAL ANCHOR INSTALLATION DESIGN AND TEST VALUES							
BOLT DIAMETER	3/8"	1/2"		5/8"		3/4"	
MIN EFFECTIVE EMBEDMENT	2"	2"	3 1/4"	3 1/4"	4 1/4"	3 3/4"	5"
MIN HOLE DEPTH	2 5/8"	2 3/4"	4"	4 1/4"	5 1/4"	5"	6 1/4"
MIN MEMBER THICKNESS	4"	4"	6"	5"	6"	6"	8"
INSTALLATION TORQUE CARBON STEEL	20 FT-LBS	40 FT-LBS		60 FT-LBS		110 FT-LBS	
INSTALLATION TORQUE STAINLESS STEEL	25 FT-LBS	40 FT-LBS		60 FT-LBS		110 FT-LBS	



NOTES:
RELOCATE BOLT IF REQ'D TO CLEAR REINFORCING STEEL.

UNLESS NOTED/ REFERENCED ON THE DETAILS/DRAWINGS, POST INSTALLED ANCHORS SHALL BE USED TO REPLACE CAST-IN-PLACE ANCHORS

ANCHOR RELOCATION DETAIL **ANCHOR AT WALL OR SLAB**

NOTES:
1. ALLOWABLE EXPANSION ANCHOR TYPES: DEWALT POWER-STUD +SD2, +SD4, +SD6 (ICC ESR-2502).
2. UNO INSTALL ANCHORS PER MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
3. THE TABULATED INSTALLATION AND TEST VALUES PERTAIN TO USE IN HARDROCK CONCRETE, LIGHT-WEIGHT CONCRETE AND CONCRETE FILL OVER METAL DECK. CONCRETE FILL OVER METAL DECK SHALL CONSIST OF 20GA
   MINIMUM METAL DECK WITH EITHER HARD ROCK OR LIGHT WEIGHT CONCRETE. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI.
4. WHEN INSTALLING DRILLED-IN ANCHORS IN NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION
   TO AVOID CUTTING OR DAMAGING THE REINFORCING BARS OR OTHER EMBEDDED ITEMS SUCH AS ELECTRICAL/TELECOMMUNICATIONS CONDUIT AND GAS LINES. WHEN INSTALLING DRILL-IN ANCHORS INTO PRESTRESSED CONCRETE (PRE OR POST-TENSIONED), LOCATE TENDONS DURING INSTALLATION BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.
5. DRILLED EXPANSION TYPE ANCHOR BOLTS SHALL BE USED ONLY WHERE DETAILED OR FOR ATTACHMENT OF MECH, ELECTRICAL, OR MISC ACCESSORIES OR EQUIPMENT TO THE STRUCTURE.
6. WHERE EDGE DISTANCE AND SPACING IS NOT SHOWN ON DETAILS, REFER ICC ESR REPORT FOR MINIMUM VALUES. WHERE SPECIFIED ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE PROVIDED, NOTIFY SEOR AND IOR PRIOR TO INSTALLATION.
7. SPECIAL INSPECTION REQUIRED PER CBC TABLE 1705.3.
8. USE STAINLESS STEEL ANCHORS FOR CONDITIONS EXPOSED BUILDING EXTERIOR, MOISTURE, AND WHERE SPECIFIED.

TYPICAL DEWALT CONCRETE EXPANSION ANCHOR DETAIL

4

SCALE: NTS
DETAIL ID: CON-DWALT-01

S103

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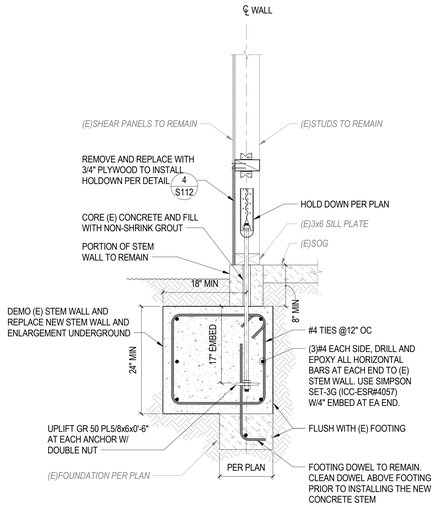
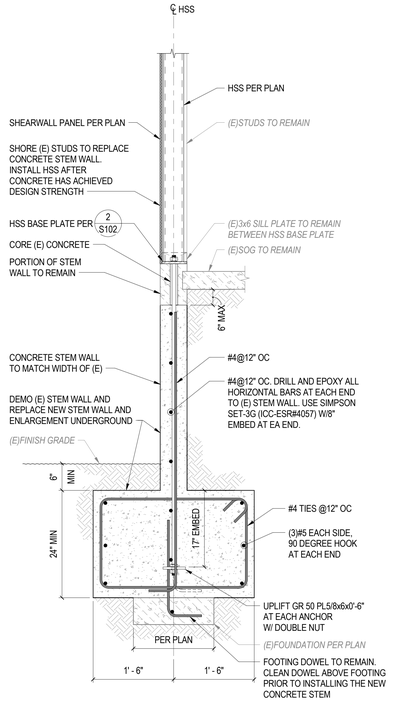
CONCRETE EXPANSION ANCHORS TYPICAL DETAILS

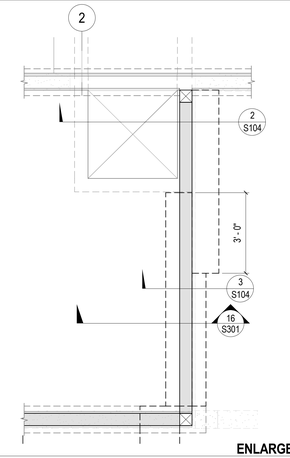
SHEET NUMBER
S103



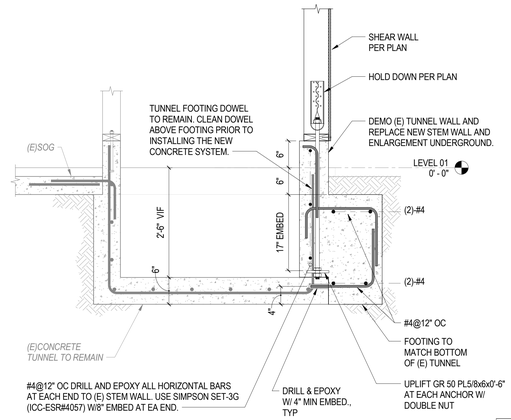
STEM WALL RETROFIT DETAIL 10 / S104
SCALE: 1" = 1'-0"



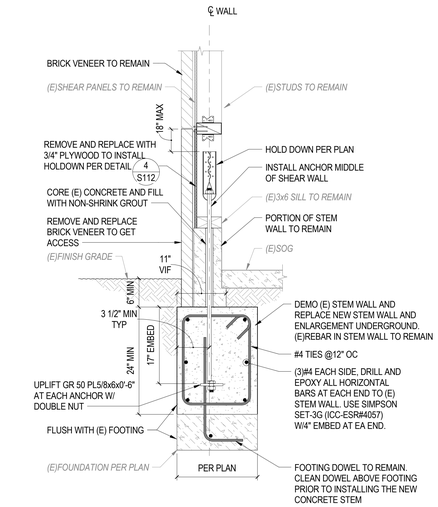
STEM WALL RETROFIT DETAIL 6 / S104
SCALE: 1" = 1'-0"



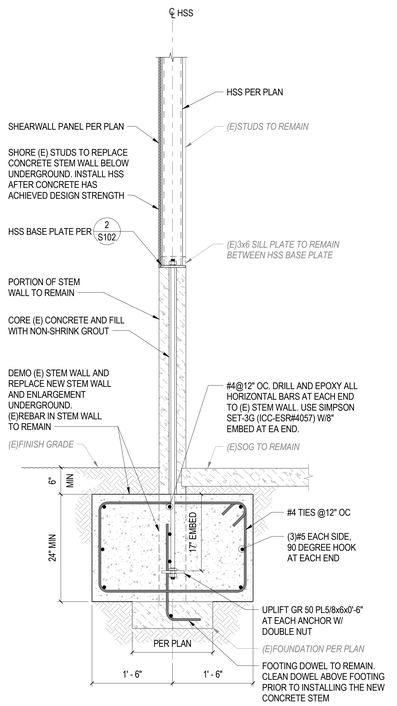
ENLARGED FOUNDATION PLAN 1 / S104
SCALE: 1/2" = 1'-0"



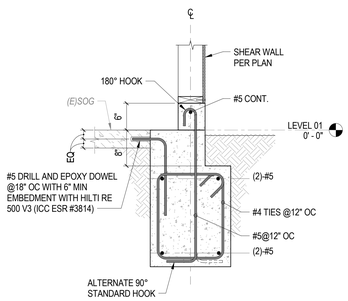
SECTION 2 / S104
SCALE: 1" = 1'-0"



STEM WALL RETROFIT DETAIL 12 / S104
SCALE: 1" = 1'-0"



STEM WALL RETROFIT DETAIL 8 / S104
SCALE: 1" = 1'-0"



SECTION 3 / S104
SCALE: 1" = 1'-0"

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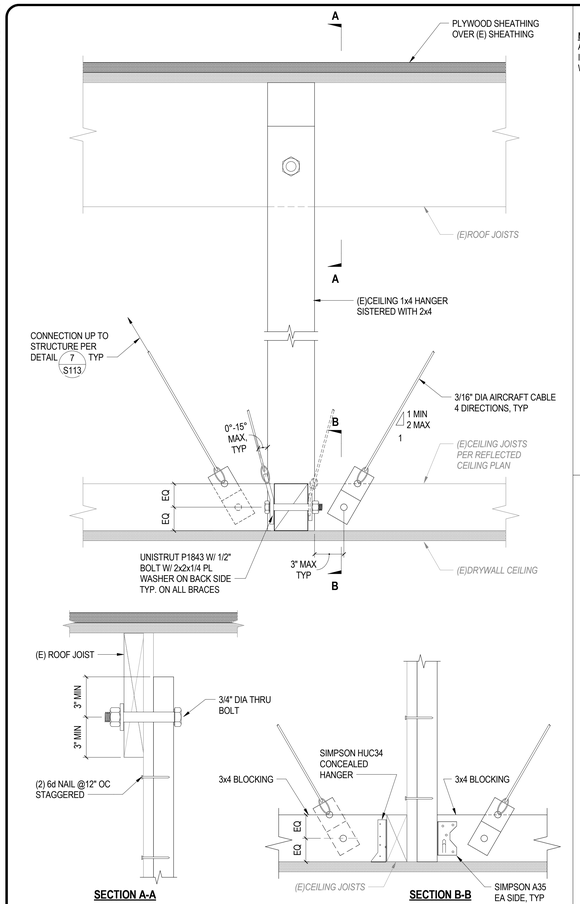
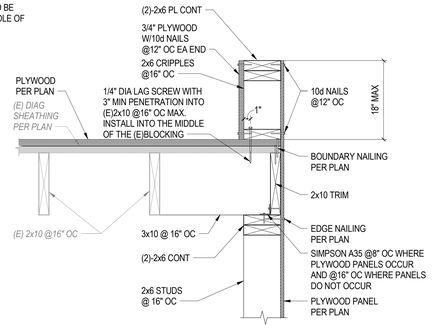


CEILING SPLAY AND HANGER RETROFIT DETAIL 14 S111

SCALE: 3" = 1'-0"

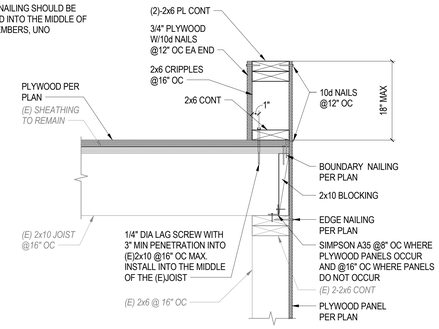
NOTE:
ALL NEW NAILING SHOULD BE INSTALLED INTO THE MIDDLE OF WOOD MEMBERS, UNO



DETAIL 9

SCALE: 1 1/2" = 1'-0" S111

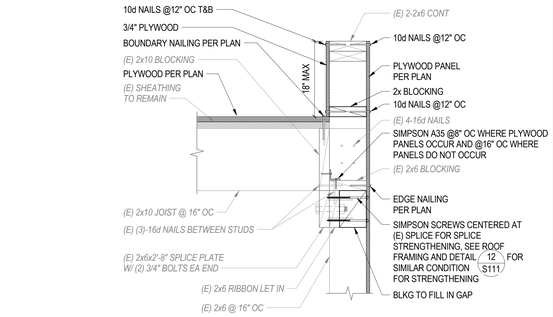
NOTE:
ALL NEW NAILING SHOULD BE INSTALLED INTO THE MIDDLE OF WOOD MEMBERS, UNO



DETAIL 5

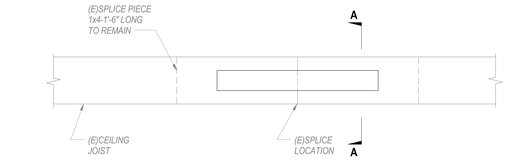
SCALE: 1 1/2" = 1'-0" S111

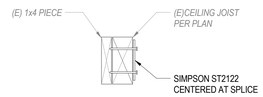
NOTE:
ALL NEW NAILING SHOULD BE INSTALLED INTO THE MIDDLE OF WOOD MEMBERS, UNO



DETAIL 1

SCALE: 1 1/2" = 1'-0" S111

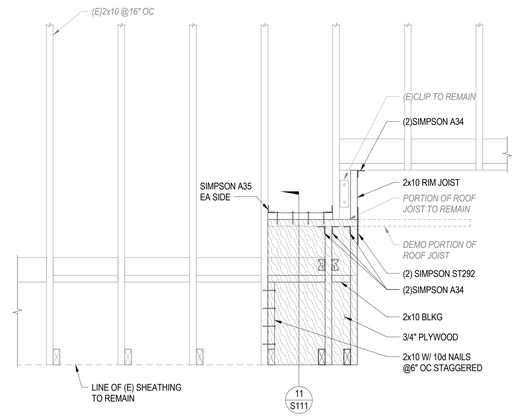




SECTION A-A

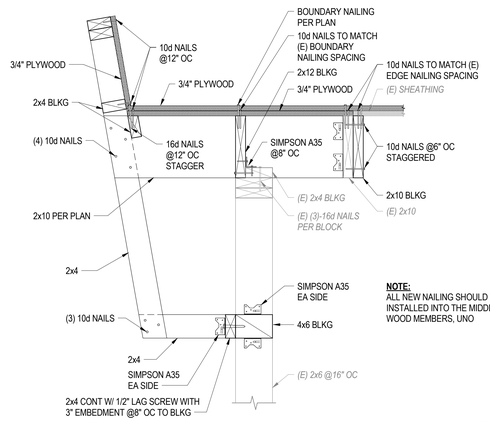
CEILING JOIST SPLICE RETROFIT DETAIL 15

SCALE: 3" = 1'-0" S111



LOW ROOF PARTIAL PLAN 10 S111

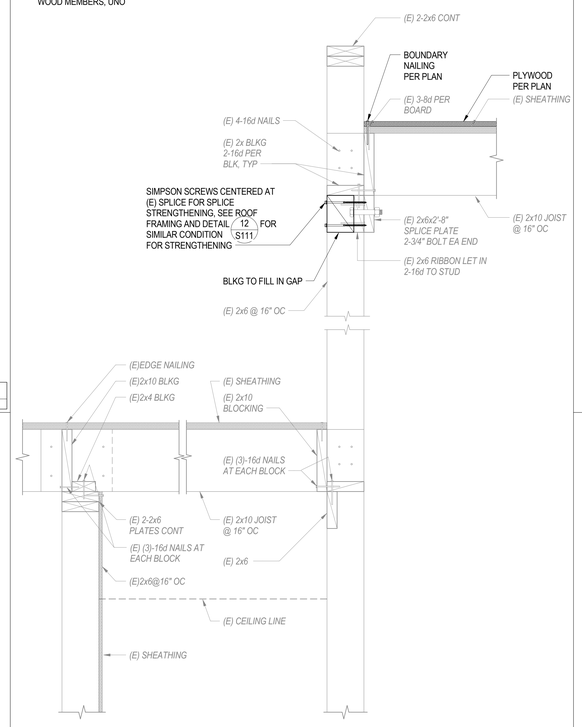
SCALE: 1" = 1'-0"



DETAIL 11

SCALE: 1 1/2" = 1'-0" S111

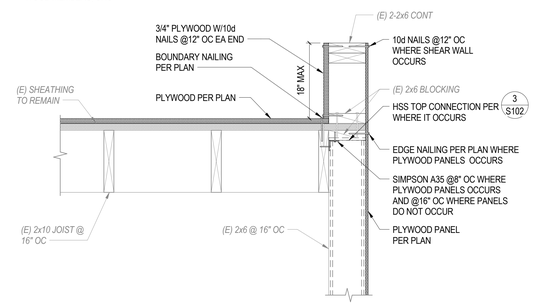
NOTE:
ALL NEW NAILING SHOULD BE INSTALLED INTO THE MIDDLE OF WOOD MEMBERS, UNO



DETAIL 7

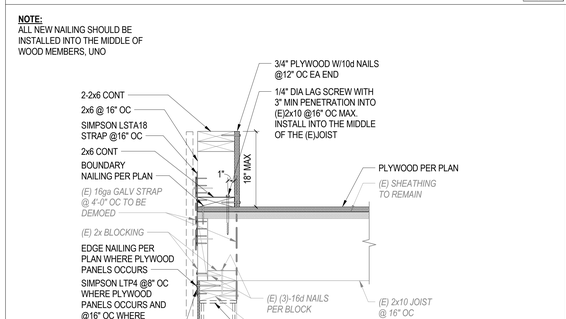
SCALE: 1 1/2" = 1'-0" S111

NOTE:
ALL NEW NAILING SHOULD BE INSTALLED INTO THE MIDDLE OF WOOD MEMBERS, UNO



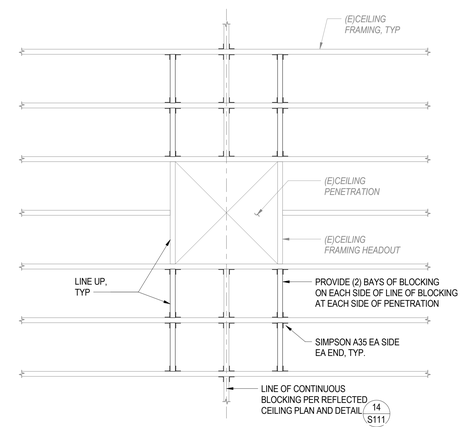
DETAIL 2

SCALE: 1 1/2" = 1'-0" S111



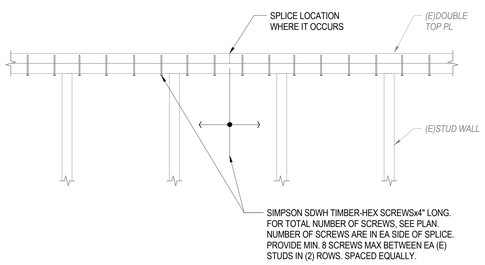
DETAIL 3

SCALE: 1 1/2" = 1'-0" S111



(E) CEILING PENETRATION OBSTRUCTION WITH BLOCKING DETAIL 16

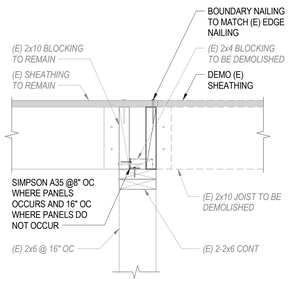
SCALE: 3/4" = 1'-0" S111



DOUBLE TOP PLATE STRENGTHENING DETAIL 12

SCALE: 1 1/2" = 1'-0" S111

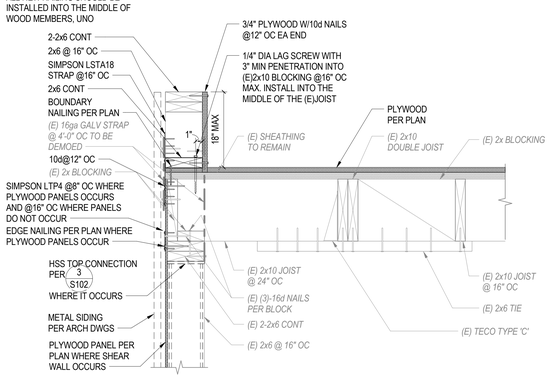
NOTE:
ALL NEW NAILING SHOULD BE INSTALLED INTO THE MIDDLE OF WOOD MEMBERS, UNO



DETAIL 8

SCALE: 1 1/2" = 1'-0" S111

NOTE:
ALL NEW NAILING SHOULD BE INSTALLED INTO THE MIDDLE OF WOOD MEMBERS, UNO



DETAIL 4

SCALE: 1 1/2" = 1'-0" S111

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ISSUE DESCRIPTION

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SHEET TITLE

WOOD TYPICAL DETAILS

SHEET NUMBER

S111

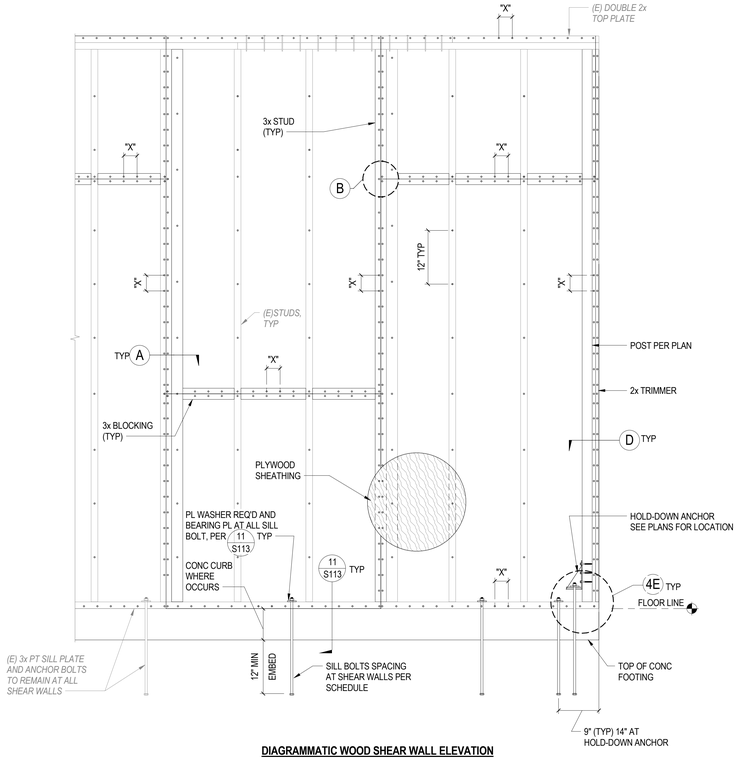
PLYWOOD SHEAR PANEL SCHEDULE				
PANEL DESIGNATION	STRUCT 1 PLYWOOD	NAILING (SEE NOTE 3)	FOUNDATION SILL BOLT SIZE AND SPACING (SEE NOTE 4)	SHEATHING SIDES
A	15/32"	10d @ 6" OC	5/8" DIA @ 24" OC	ONE SIDE
B	15/32"	10d @ 4" OC	5/8" DIA @ 16" OC	ONE SIDE
C	15/32"	10d @ 3" OC	5/8" DIA @ 16" OC	ONE SIDE
D	15/32"	10d @ 2" OC	5/8" DIA @ 12" OC	ONE SIDE

NOTES:

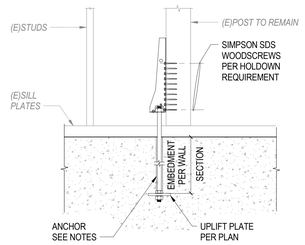
1. (E) SILL PLATES ARE 3x, VIF. STAGGER NAILS INTO SILL PLATES.
2. PLYWOOD SHALL BE APPLIED OVER STUDS @ 16" OC ON ONE SIDE OR BOTH SIDES OF STUDS PER SCHEDULE ABOVE.
3. NAILING AT INTERMEDIATE MEMBERS TO SPACED 12" OC.
4. SEE DETAIL **11 / S113** FOR PLATE WASHERS AT NEW SILL BOLTS.

NOTES:

- INDIVIDUAL PIECES OF PLYWOOD SHALL BE NOT LESS THAN 2'-0" IN LEAST DIMENSION NOR 8 FT. IN AREA.
- FOR OPENINGS IN PLYWOOD SHEATHING, SEE 4C
- HOLD-DOWN ANCHOR BOLTS DO NOT REPLACE SILL BOLTS
- PROVIDE FURRING BACKING OF THICKNESS AS REQUIRED TO MAINTAIN A COMMON WALL PANEL AT ALL WOOD STUD WALL SURFACES WHICH ARE ONLY PARTIALLY SHEATHED WITH STRUCTURAL PLYWOOD. COORDINATE AND ADJUST HEAD, JAMB AND SILL DETAILS AS REQUIRED FOR PROPER OVERALL WALL THICKNESS.



DIAGRAMMATIC WOOD SHEAR WALL ELEVATION

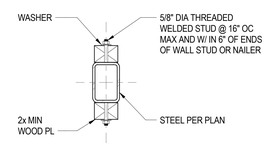


NOTES:

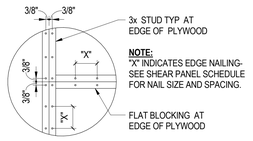
1. SEE PLAN FOR HOLD-DOWN LOCATIONS, TYPICAL, AS INDICATED ON PLANS.
2. POSTS SHALL BE SAME DEPTH AS WALL STUDS. EDGE NAIL TO POST.

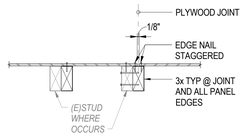
3. FOR THREADED ROD USE ASTM F1554 GRADE 105 KSI.
4. EPOXY ANCHOR TO AVOID DAMAGING (E) REBAR.
5. BOLTS TO BE HOT DIPPED GALVANIZED IF IT'S EXPOSED TO TREADED WOOD.

E **SHEAR WALL HOLD-DOWNS**

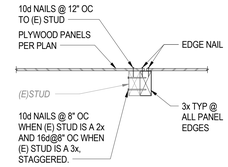


J **NAILER DETAIL AND SCHEDULE**

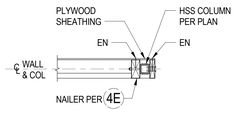




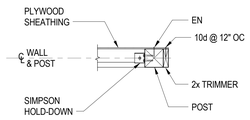
B **NAILING AT SHEATHING SPLICE**



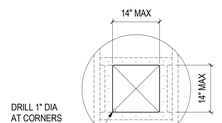
A **3x STUDS TO (E)STUDS SISTERING DETAIL**



D5 **PLAN SECTION**



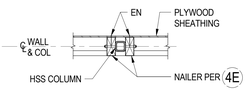
D1 **PLAN SECTION**



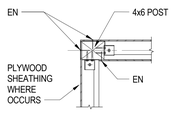
C **MINOR OPENING**

NOTES:

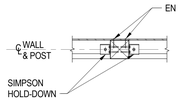
1. NO OPENINGS OVER ONE STUD WIDTH TO OCCUR IN PLYWOOD SHEAR PANELS UNLESS DETAILED ON STRUCTURAL ELEVATIONS. OPENINGS IN PLYWOOD SHALL BE CUT WITH A SABER SAW.
2. THERE SHALL BE NO OPENINGS/PENETRATIONS AT SHEAR PANEL. GENERAL CONTRACTOR TO COORDINATE, TYP UNO ON PLAN.
3. OPENINGS SHALL BE SPACED AT LEAST 4'-0" APART
4. TIE STRAPS SHALL BE PLACED ON SIDE OF WALL WITH SHEATHING WHERE OCCURS.



D6 **PLAN SECTION**



D3 **PLAN SECTION**



D4 **PLAN SECTION**

D **POST DETAILS**

TYPICAL SHEAR WALL CONSTRUCTION 4 / S112

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123908 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

Structure
ADVANCED ARCHITECTURE
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REGISTERED PROFESSIONAL ENGINEER
KEVIN CARPENTER
No. 40196
STRUCTURAL
STATE OF CALIFORNIA
DATE: 08-02-2024
FOR BRANDOW & JOHNSTON

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STRUCTURAL+CIVIL ENGINEERS
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Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

ISSUE DESCRIPTION

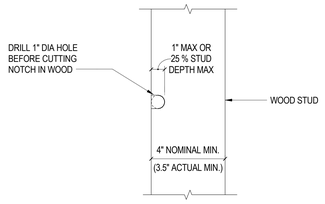
DSA SUBMITTAL	01.12.24

SHEET TITLE

SHEAR WALL CONSTRUCTION TYPICAL DETAILS

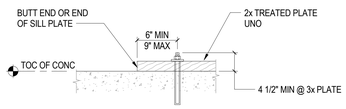
SHEET NUMBER

S112

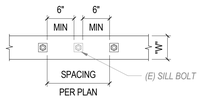


NOTE: THIS DETAIL SHALL APPLY FOR ELECTRICAL CONDUITS, PLUMBING AND FOR ANY OTHER USES WHICH REQUIRE NOTCHING.

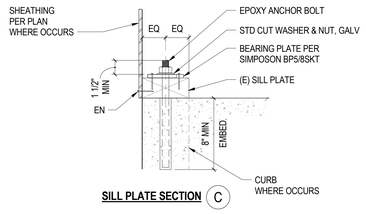
TYPICAL NOTCH IN STUD 9
SCALE: 3" = 1'-0" DETAIL ID: WOOD-MISC-08 S113



TYPICAL SILL PLATE ELEVATION A



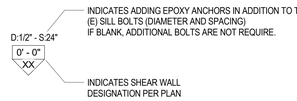
PLAN VIEW B



SILL PLATE SECTION C

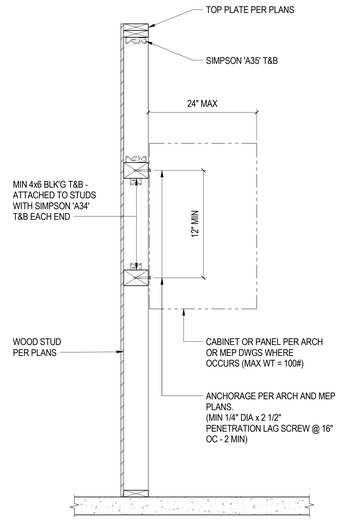
SILL BOLT REQUIREMENTS:

1. PROVIDE A MINIMUM SILL BOLT PROJECTION ABOVE THE CONCRETE AS SHOWN ON DETAIL A
2. PROVIDE ADDITION EPOXY ANCHORS SILL BOLTS AT SPECIFIC SPACING AT SHEAR WALL SILL PLATE WHERE SHOWN THUS ON PLAN:

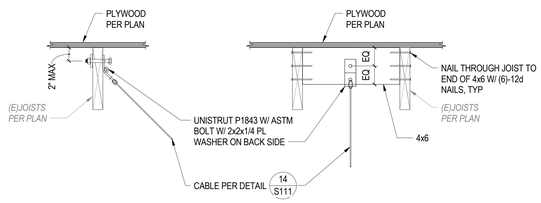


3. FOR THREADED ROD USE ASTM F1554 GRADE 36.
4. USE SIMPSON SET-3G (ICC-ESR #4057) FOR EPOXY.
5. SCAN CONCRETE STEM WALL PRIOR TO INSTALLING EPOXY ANCHOR TO AVOID DAMAGING (E) REBAR.

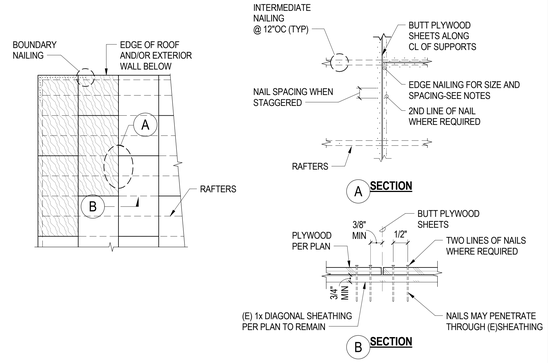
TYPICAL SILL PLATE DETAIL 11
SCALE: 1" = 1'-0" DETAIL ID: WOOD-EXUS-01A S113



TYPICAL WOOD BACKING DETAIL 6
SCALE: 1" = 1'-0" DETAIL ID: WOOD-MISC-06 S113



CABLE BRACE TO (E) STRUCTURE CONNECTION 7
SCALE: 1 1/2" = 1'-0" S113



A **SECTION**

B **SECTION**

ROOF SHEATHING NOTES:

1. PLYWOOD SHEATHING: U.S. PRODUCT STDPS 1-19 APA STRUCTURAL 1 RATED SHEATHING EXPOSURE 1. OR STRUCT I EXTERIOR GRADE OSB.

   THICKNESS: 15/32 INCH

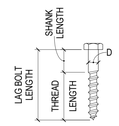
2. NAILING PATTERN FOR PLYWOOD SHEATHING (FULL HEAD, COMMON WIRE):

   (A) BOUNDARY NAILING: TWO LINES OF 10d NAILS @4" OC STAGGERED
   EDGE NAILING: TWO LINES OF 10d NAILS @4" OC STAGGERED
   FIELD NAILING: 10d NAILS @12" OC

   (B) BOUNDARY NAILING: 10d NAILS @2 1/2" OC
   EDGE NAILING: 10d NAILS @4" OC STAGGERED
   FIELD NAILING: 10d NAILS @12" OC

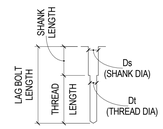
3. PROVIDE PLYWOOD SHEETS NOT LESS THAN 2'-0" IN LEAST DIMENSION NOR LESS THAN 8'-0" SQ FEET IN AREA. USE FULL SHEETS WHEREVER POSSIBLE.
4. THE JOINTS OF THE NEW PLYWOOD PANELS OVERLAY SHOULD BE PLACED PARALLEL TO THE (E) DIAGONAL SHEATHING.
5. THE EDGES OF THE NEW PLYWOOD PANELS SHOULD BE OFFSET FRON THE JOINTS IN THE EXISTING SHEATHING BELOW BY A SUFFIENCENT DISTANCE THAT THE NEW NAILS MAY BE DRIVEN INTO THE EXISTING DIAGONAL SHEATHING.
6. COORDINATE JOIST LAYOUT WITH 4'-0" MODULE AS RELATED TO PLYWOOD SHEATHING PATTERN.
7. MACHINE APPLIED NAILING: THE CONTRACTOR WILL DEMONSTRATE SATISFACTORY INSTALLATION ON THE JOB AND OBTAIN ACCEPTANCE OF ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE THE USE OF MACHINE APPLIED NAILS CAN BE APPROVED. APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. REMOVE ALL "SHINERS:

TYPICAL ROOF PLYWOOD SHEATHING (SAWN LUMBER) 2
SCALE: 3/4" = 1'-0" DETAIL ID: WOOD-SHEA-01 S113



LAG BOLT

D (DIA)	LEAD HOLE	
	Ds (DIA)	Dt (DIA)
1/2"	1/2"	5/16"
5/8"	5/8"	7/16"
3/4"	3/4"	1/2"

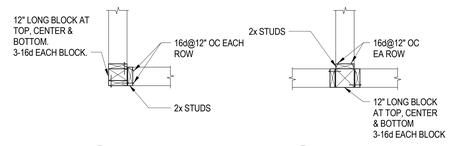


LEAD HOLE

NOTES:

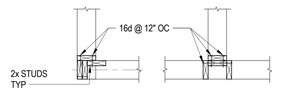
1. ALL LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED LEAD HOLE.
2. LAG BOLTS SHALL BE TURNED BY A HAND WRENCH OR BY A POWER TORQUE WRENCH.
3. LAG BOLTS SHALL NOT BE HAMMERED!!
4. WHERE FULL THREADED BOLTS ARE INDICATED PROVIDE LEAD HOLE FOR DIAM. "Dt" FOR FULL DEPTH.
5. PROVIDE WASHER UNDER HEAD FOR BOLT HEAD IN CONTACT WITH WOOD.

TYPICAL WOOD DETAIL 3
SCALE: 3" = 1'-0" DETAIL ID: WOOD-MISC-10 S113



A **CORNER**

B **INTERSECTION**



C **TYP NON-SHEAR PANEL STUDWALL INTERSECTION**

TYPICAL CORNERS AND INTERSECTIONS 4
SCALE: 3/4" = 1'-0" DETAIL ID: WOOD-MISC-09 S113

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1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

ISSUE DESCRIPTION

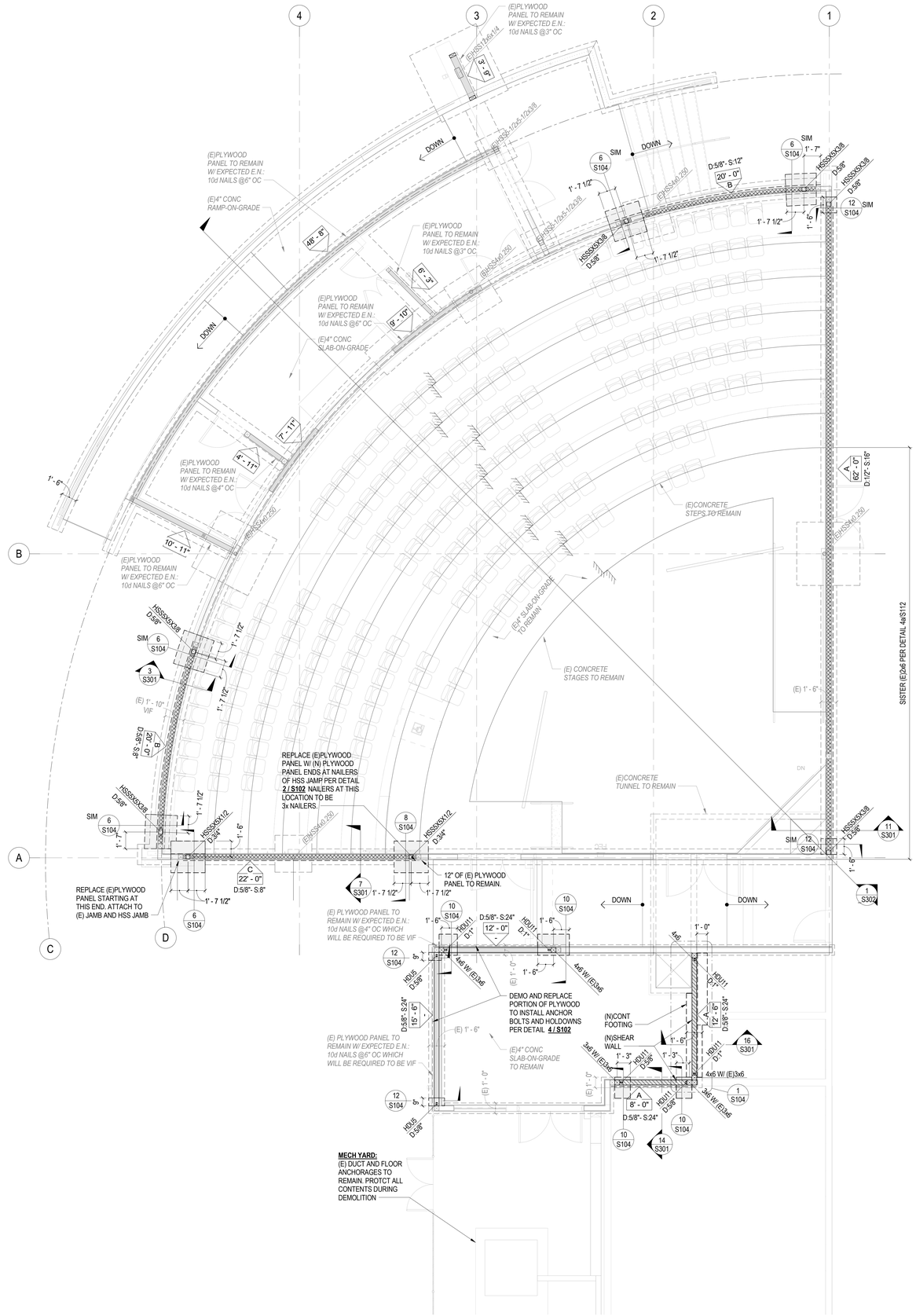
DSA SUBMITTAL	01.12.24

SHEET TITLE

SAWN & LUMBER WOOD TYPICAL DETAILS

SHEET NUMBER

S113



PLAN NOTES:

1. AT SPECIFIED LOCATIONS ON PLAN, VERIFY IN FIELD WHETHER WOOD FRAMING HAS WATER INTRUSION DAMAGE AND/OR TERMITE DAMAGE.
2. WHERE WOOD FRAMING IS DAMAGED FROM TERMITE ACTIVITY, REMOVE AND REPLACE MEMBERS IN THEIR ENTIRETY AND REPLACE IN-KIND W/ SAME SIZE AND CONFIGURATION AS EXISTING. SEE ROUGH CARPENTRY GENERAL NOTES FOR WOOD GRADE.
3. EXISTING EXTERIOR WALLS ARE 2x6 @16" OC W/ 1/2" STRUCT 1 PLYWOOD SHEATHING.
4. ALL DOOR AND WINDOW OPENING LOCATIONS TO BE VERIFIED WITH ARCH DRAWINGS.
5. SEE DETAIL **9 / S103** FOR CONCRETE SPALL REPAIR WHERE REQUIRED AFTER REVEILING THE CONCRETE CONDITION.

= INDICATES EXISTING SHEAR WALL TO REMAIN, VIF.

= INDICATES EXISTING SHEAR WALL WITH (E)PLYWOOD PANEL TO BE REPLACED WITH NEW PLYWOOD PANELS PER SHEAR WALL TYPE.

= INDICATES EXISTING INTERIOR WALL TO BE CONVERTED TO SHEAR WALL. SEE PLYWOOD PANEL PER PLAN.

(E)HDU = INDICATES EXISTING HOLDOWN, VIF.

HDU = INDICATES NEW HOLDOWN.

= INDICATES NEW WOOD POST.

= INDICATES EXISTING WOOD POST.

= INDICATES NEW HSS POST.

D:1/2" - S:24" = INDICATES ADDING ADDITION EPOXY ANCHORS (DIAMETER AND SPACING) SILL BOLTS AT SPECIFIC SPACING PER **11 / S113** IF BLANK, ADDITIONAL BOLTS ARE NOT REQUIRED.

0' - 0" = INDICATES LENGTH OF SHEAR WALL

XX = INDICATES PANEL DESIGNATION PER SCHEDULE PER **4 / S112** WHEN BLANK, EXISTING PLYWOOD PANEL TO REMAIN

INDICATES SIZE OF HSS POST PER PLAN — HSS D:1/2" — INDICATES DIAMETER OF ANCHOR. SEE DETAIL **2 / S102** FOR BASE PLATE AND ADDITIONAL INFORMATION

INDICATES SIZE OF SIMPSON HOLDOWN — HDU4 D:1/2" — INDICATES DIAMETER OF ANCHOR SEE DETAIL **4E / S112** FOR ADDITIONAL INFORMATION

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REGISTERED PROFESSIONAL ENGINEER — HOVSEP RAZTAN — No. 49296 — STRUCTURAL — STATE OF CALIFORNIA

DATE: 08-02-2024
FOR BRANDOW & JOHNSTON

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COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

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ISSUE DESCRIPTION

	DSA SUBMITTAL	01.12.24

SHEET TITLE

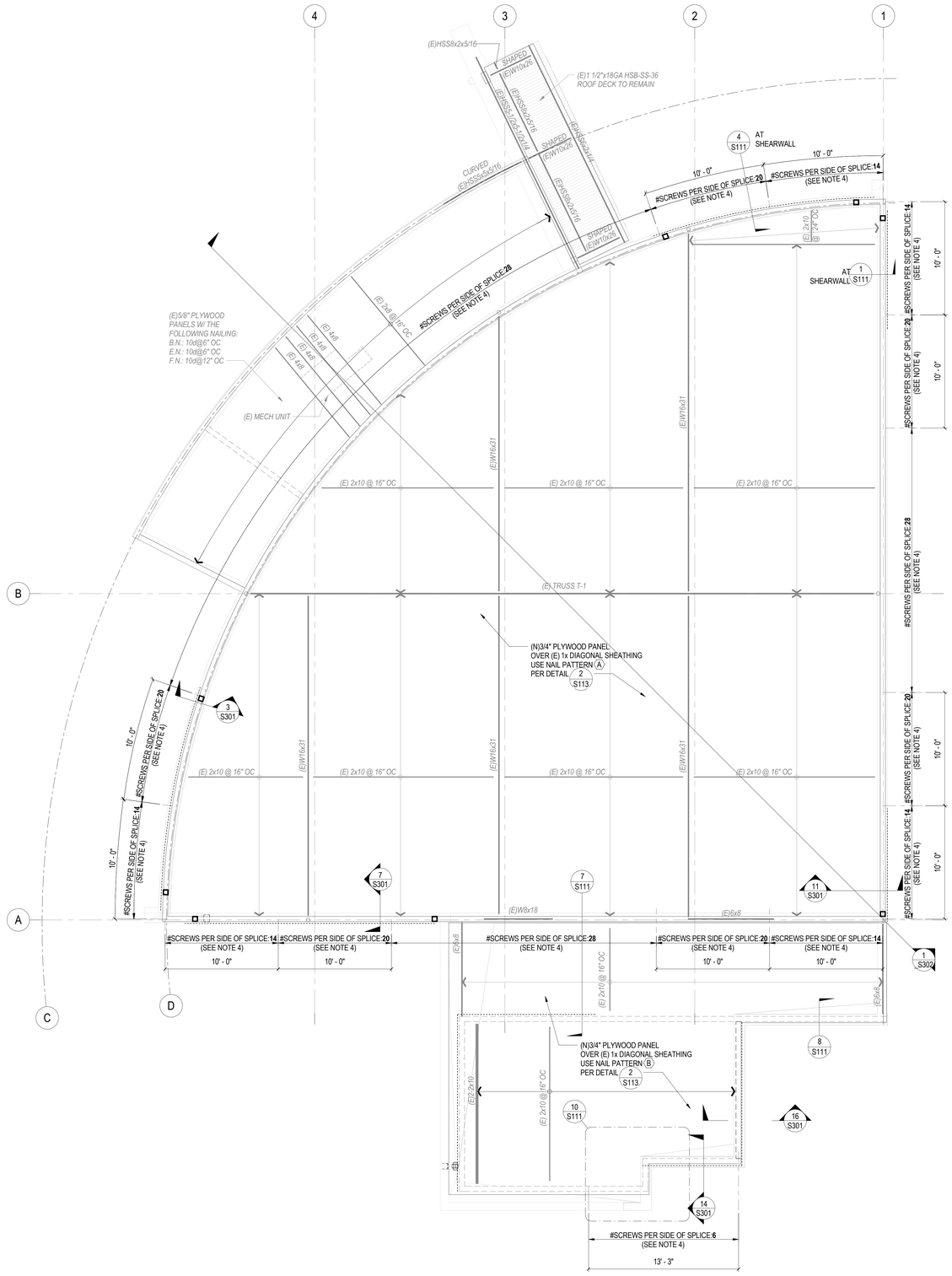
FOUNDATION PLAN

SHEET NUMBER

S201

FOUNDATION PLAN

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



PLAN NOTES:

1. AT SPECIFIED LOCATIONS ON PLAN, VERIFY IN FIELD WHETHER WOOD FRAMING HAS WATER INTRUSION DAMAGE AND/OR TERMITE DAMAGE.
2. WHERE WOOD FRAMING IS DAMAGED FROM TERMITE ACTIVITY, REMOVE AND REPLACE MEMBERS IN THEIR ENTIRETY AND REPLACE IN-KIND W/ SAME SIZE AND CONFIGURATION AS EXISTING. SEE ROUGH CARPENTRY GENERAL NOTES FOR WOOD GRADE.
3. EXISTING EXTERIOR WALLS ARE 2x6 @16" OC W/ 1/2" STRUCT 1 PLYWOOD SHEATHING.
4. STRENGTHEN THE (E) DOUBLE TOP PLATE SPLICE WHERE THE SPLICE OCCURS PER DETAIL **12 / S111** BY INSTALLING THE NUMBER OF SCREWS, INDICATED ON PLANS, EA SIDE OF THE SPLICE.

= INDICATES EXISTING SHEAR WALL TO REMAIN, VIF.

= INDICATES EXISTING SHEAR WALL WITH (E)PLYWOOD PANEL TO BE REPLACED WITH NEW PLYWOOD PANELS PER SHEAR WALL TYPE.

= INDICATES EXISTING INTERIOR WALL TO BE CONVERTED TO SHEAR WALL. SEE PLYWOOD PANEL PER PLAN.

(E)HDU1 HDU1 = INDICATES EXISTING HOLDOWN, VIF.

= INDICATES NEW HOLDOWN, VIF.

= INDICATES NEW WOOD POST.

= INDICATES EXISTING WOOD POST.

ROOF FRAMING PLAN

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

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DATE: 08-02-2024
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JOB#:S21-0360

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COMPTON COLLEGE
STRUCTURAL UPGRADE
OF REMAINING PORTIONS
OF EXISTING BUILDING Y

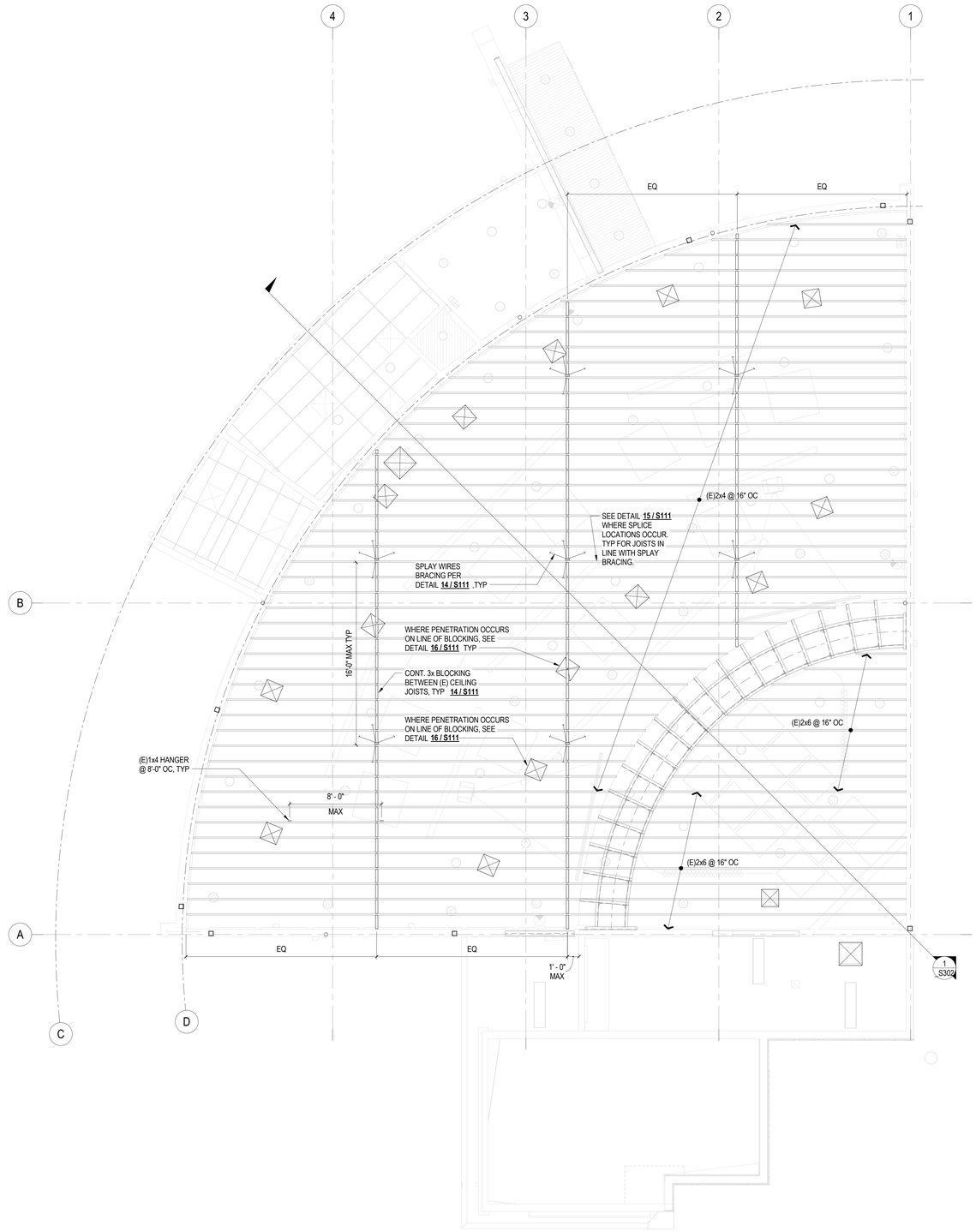
1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION

DSA SUBMITTAL	01.12.24

SHEET TITLE
ROOF FRAMING PLAN

SHEET NUMBER
S202



REFLECTED CEILING PLAN

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

struere
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3324 GRAND VIEW
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REGISTERED PROFESSIONAL ENGINEER
No. 40296
STRUCTURAL
STATE OF CALIFORNIA

DATE: 08-02-2024
FOR BRANDOW & JOHNSTON

BRANDOW & JOHNSTON
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JOB# S21-0360

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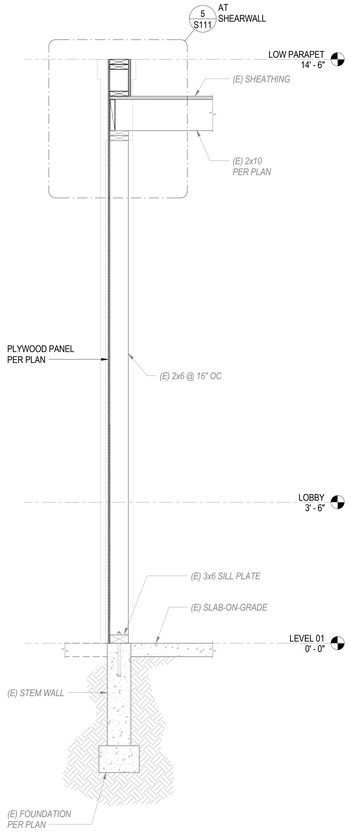
1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

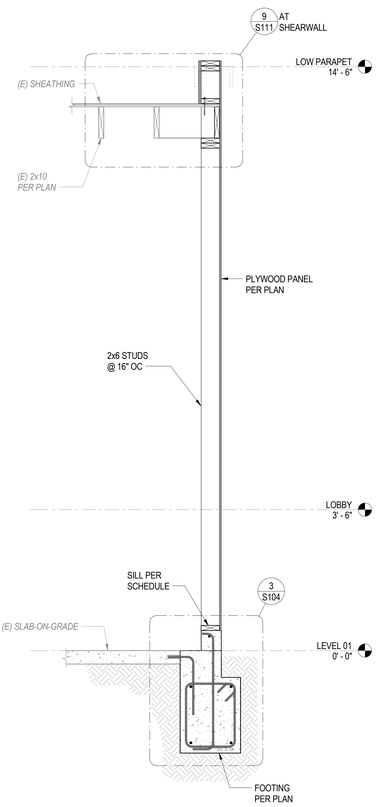
ISSUE DESCRIPTION

SHEET TITLE
REFLECTED CEIING PLAN

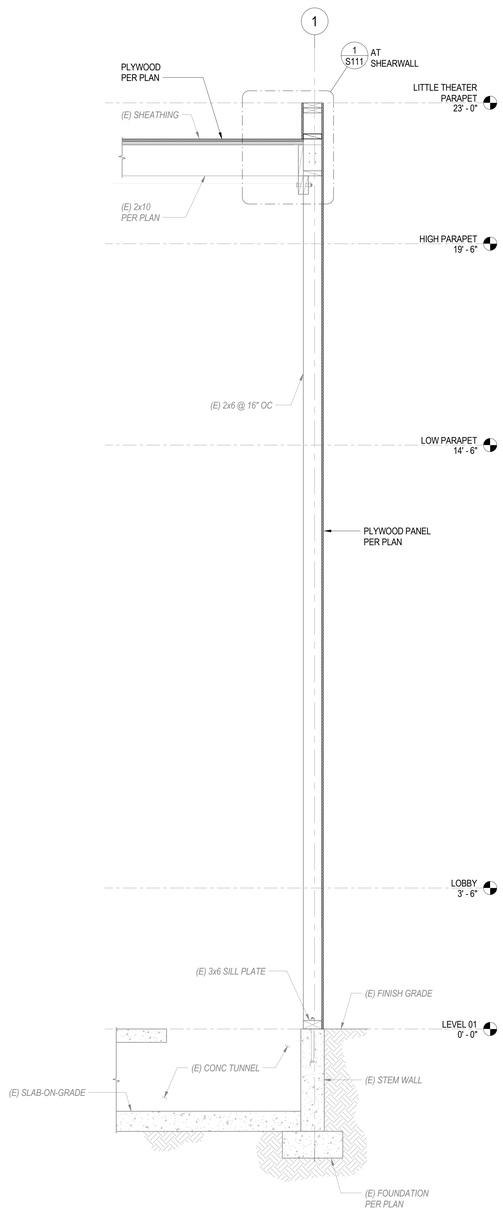
SHEET NUMBER
S203



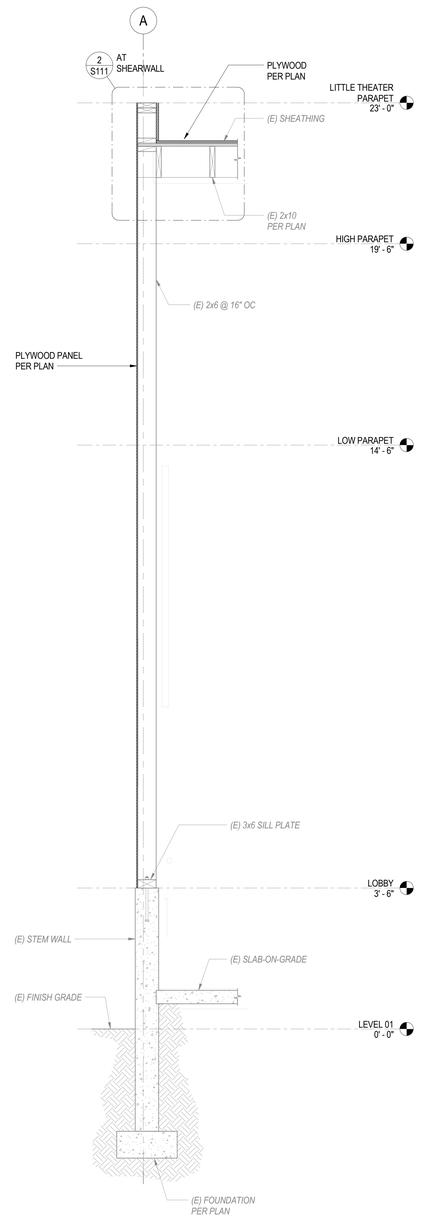
WALL SECTION 14 / S301
SCALE: 3/4" = 1'-0"



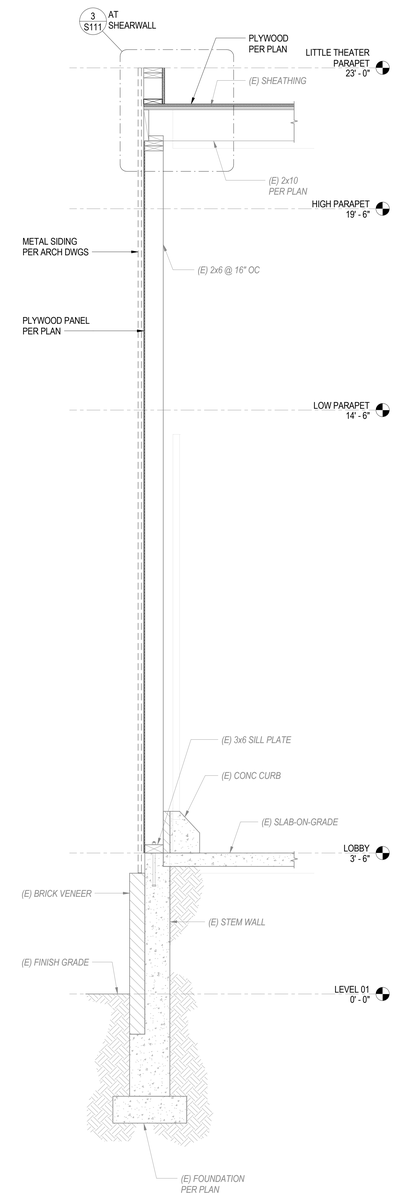
WALL SECTION 16 / S301
SCALE: 3/4" = 1'-0"



WALL SECTION 11 / S301
SCALE: 3/4" = 1'-0"



WALL SECTION 7 / S301
SCALE: 3/4" = 1'-0"



WALL SECTION 3 / S301
SCALE: 3/4" = 1'-0"

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Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION

DSA SUBMITTAL	01.12.24

SHEET TITLE

WALL SECTIONS

SHEET NUMBER

S301

GENERAL NOTES

1. 8-1/2X11 BOOK SPECIFICATIONS SHALL FORM PART OF THIS WORK.
2. ALL DUCTWORK, CEILING AND WALL PENETRATION SHALL BE COORDINATED WITH STRUCTURAL JOISTS AND BEAMS. PROVIDE OFFSETS IN PIPES AND DUCTS TO AVOID CUTTING OF BEAMS AND JOISTS UNLESS INDICATED ON STRUCTURAL DRAWINGS.
3. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LATEST APPLICABLE CODES AND REGULATIONS PER CALIFORNIA AND OTHER AUTHORITIES HAVING JURISDICTION.
5. THE MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED EXISTING CONDITIONS AND MAKE ADJUSTMENTS TO DIMENSIONS AS NECESSARY TO COMPLETE THE WORK.
6. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
7. CONTRACTOR SHALL THOROUGHLY EXAMINE PREMISES AND OBSERVE ALL CONDITIONS AND CIRCUMSTANCES UNDER WHICH THE WORK SHALL BE PERFORMED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR NEGLIGENCE IN THIS RESPECT.
8. CONTRACTOR SHALL PERFORM WORK ONLY AFTER THE GATHERING OF EXACT FIELD DIMENSIONS OF THE BUILDING STRUCTURE AND CEILINGS ETC. WHICH MAY AFFECT THE INSTALLATION OF THE NEW SYSTEMS.
9. CONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH OTHER TRADES TO ASSURE ALL WORK CAN BE PROPERLY INSTALLED WITHOUT INTERFERENCE OR DELAY.
10. CLEAN UP ALL WASTE AND DEBRIS AT THE END OF EACH WORKING DAY AND AT THE COMPLETE OF THE JOB.
11. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT & DUCTWORK PER SPECIFICATIONS.
12. EXACT LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES SHALL BE COORDINATED WITH LIGHTING. CEILING DIFFUSERS SHALL HAVE A MINIMUM OF 36" FROM ANY FIRE ALARM DEVICES.
13. CONTRACTOR SHALL MOUNT AND CONNECT EACH ITEM OF EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION, CMC CHAPTER 6 AND CBC SECTION 1632A.
14. ALL OPENINGS IN WALLS, CEILINGS, AND FLOORS RESULTING FROM DUCT DEMOLITION SHALL BE CLOSED AND FINISHED TO MATCH THE SURROUNDING.
15. COORDINATE WITH PLUMBING TO PROVIDE CONDENSATE DRAIN LINES FOR ALL COOLING COILS.
16. PROVIDE VOLUME DAMPERS AT EACH BRANCH TAKE-OFF FROM MAIN SUPPLY RETURN, AND EXHAUST DUCT SERVING EACH AIR DEVICE.
17. PROVIDE DIFFUSERS AND GRILLES WITH BLOW PATTERNS INDICATED ON THE DRAWING.
18. ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED PER TITLE-24 REQUIREMENT.
19. ALL EQUIPMENT WITH MOVING PARTS SHALL BE PROVIDED WITH FLEXIBLE DUCT AND PIPE CONNECTIONS.
20. CONTRACTOR SHALL VERIFY ALL CLEARANCES AND AVAILABLE SPACE FOR DUCTWORK PRIOR TO ORDERING AND/OR FABRICATING MATERIAL.
21. DRAWINGS SHALL BE USED ONLY FOR GENERAL DUCT ROUTING AND AIR DISTRIBUTION. ACCESS DOORS SHALL BE PROVIDED ON ALL FIRE DAMPERS, AUTOMATIC DAMPERS, MANUAL DAMPERS, AND BYPASS DAMPERS.
22. NOTE THE CRITICAL SPACE AVAILABLE ABOVE CEILINGS. PROVIDE TRANSITION PIECES AT CROSSOVERS, UNDER BEAMS, OVER/UNDER PIPES, AS REQUIRE ACCOMMODATE DUCTS WITHIN SPACE AVAILABLE, PROVIDING EQUIVALENT DUCT SIZE TO THE DIMENSION SHOWN. COORDINATE CLOSELY WITH OTHER SECTIONS TO REDUCE NECESSITY OF TRANSITIONS TO A MINIMUM. NO ADDITIONAL COSTS WILL BE PAID FOR ANY REQUIRED TRANSITIONS OR OTHER SPECIAL CHANGE SHAPE PIECES.
23. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL HAVE ALL AIR SYSTEMS BALANCED TO INDICATED AIR FLOW QUANTITIES BY A CERTIFIED AABC BALANCING CONTRACTOR. PROVIDE POST-CONSTRUCTION AIR BALANCE REPORT.
24. MAXIMUM LENGTH OF RUN OF FLEXIBLE DUCT SHALL NOT EXCEED 5'-0" FEET.
25. CONTRACTOR SHALL PROVIDE "YOUNG" REGULATORS IN LIEU OF VOLUME DAMPERS IN HARD CEILING AREAS AT EACH BRANCH TAKE-OFF FROM MAIN SUPPLY, RETURN AND EXHAUST DUCT SERVING EACH AIR DEVICE. ALL MANUAL VOLUME DAMPERS MAY NOT BE SHOWN ON PLANS. PROVIDE AS STATED.
26. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, OF SECTION 16 AND 1617A CBC-2022 AND ASCE 7-22. A COPY OF THE GUIDELINES SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.
27. ANY EQUIPMENT, DUCTWORK, OR PIPING INSTALLED MORE THAN 1 FT FROM THE LOCATION SHOWN ON THE DRAWINGS SHALL BE CLEARLY DOCUMENTED ON THE FIELD. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT CLEARLY SHOW THE LOCATION OF THE THE EQUIPMENT BEFORE THAN COMPLETION OF THE PROJECT. ALL EXPENSE RELATING TO VERIFY THE AS-BUILT DRAWINGS BY THE DISTRICT OR ITS REPRESENTATIVE(S) DUE TO INACCURATE OR INCOMPLETE RECORD SHALL BE BORN BY THE CONTRACTOR.
28. CONTRACTOR HAS THE OPTION TO CHANGE DUCT TO ROUND AS LONG AS INTERIOR ASPECT RATIO IS MAINTAINED, AND SPACE ALLOWS.
29. RECORD PLANS "AS BUILTS" - THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A CLEAN, UNDAMAGED SET OF PRINTS OF DRAWINGS AND SHOP DRAWINGS ON SITE. RED LINE THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. FOR CLOSE OUT, THE CONTRACTOR SHALL INCORPORATE THE CHANGES IN AUTOCAD FORMAT INTO THE APPROPRIATE ORIGINAL DRAWINGS. SIMPLE ATTACHMENTS SUCH AS REFERENCING CHANGE ORDERS, SHOP DRAWINGS, RFC'S OR RFI'S ARE NOT ACCEPTABLE.
30. ALL THERMOSTATS SHALL BE PROVIDED WITH COMMERCIALLY AVAILABLE COVERS TO PREVENT VANDALISM AND TAMPERING. WHERE THE THERMOSTAT ARE LOCATED AT AN OUTSIDE WALL, THERMAL PADDING SHALL BE PROVIDED.
31. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
32. ALL NEW DUCT CONSTRUCTION AND INSTALLATION SHALL CONFORM TO CURRENT SMACNA GUIDELINES.
33. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
34. PROVIDE DUCT INSULATION FOR ALL NEW DUCTWORK AS REQUIRED BY CALIFORNIA ENERGY CODE SECTION 120.4. ALL EXPOSED DUCTWORK REQUIRING INSULATION AT ANY R-VALUE SHALL BE INTERNALLY LINED UNLESS OTHERWISE NOTED. ALL EXTERIOR DUCTWORK SHALL BE INSULATED TO R-8 OR HIGHER.
35. PROVIDE BACKDRAFT DAMPER IN ALL OUTSIDE AIR DUCTS, WHETHER INDICATED OR NOT.
36. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
37. PROVIDE DUCT INSULATION FOR ALL DUCTWORK AS REQUIRED BY CALIFORNIA ENERGY CODE SECTION 124. ALL EXPOSED DUCTWORK REQUIRING INSULATION AT ANY R-VALUE SHALL BE INTERNALLY LINED UNLESS OTHERWISE NOTED. ALL EXTERIOR DUCTWORK SHALL BE INSULATED AT R-8 OR HIGHER.
38. ALL DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
39. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
40. ALL REFRIGERANT PIPING SHALL BE INSULATED AS PER 2022 CALIFORNIA ENERGY CODE TABLE 120.3-A AND MANUFACTURER'S REQUIREMENTS
41. COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
42. CONTRACTOR SHALL COORDINATE ALL DUCT AND REFRIGERANT PIPE ROUTING WITH BUILDING CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS IN ROUTING TO MAKE FINAL CONNECTIONS.
43. PROVIDE VOLUME DAMPER AND BACKDRAFT DAMPER IN ALL OUTSIDE AIR DUCTS, WHETHER INDICATED OR NOT.
44. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES, WHETHER INDICATED OR NOT.
45. ALL PIPES PASSING THRU FIRE RATED WALLS AND FIRE RATED FLOORS SHALL BE PROVIDED WITH FIRESTOPPING.
46. PROVIDE FLASHING AND/OR COUNTER FLASHING AT ALL EXTERIOR PENETRATIONS.

MEP COMPONENT ANCHORAGE NOTE

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER 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 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE 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 THE 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, ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, 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 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g., HCAi OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUEL 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: OPTION 2: SHALL COMPLY WITH HCAi (OSHPD) PRE-APPROVAL (OPM #) # _____ AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

NOTES

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 A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test technician-certification-provider-program/acceptance.

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.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

CODE STANDARDS

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR):

PART 1	2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
PART 2	2022 CALIFORNIA BUILDING CODE (CBC) VOLUME 1 AND 2
PART 3	2022 CALIFORNIA ELECTRICAL CODE (CEC)
PART 4	2022 CALIFORNIA MECHANICAL CODE (CMC)
PART 5	2022 CALIFORNIA PLUMBING CODE (CPC)
PART 6	2022 CALIFORNIA ENERGY CODE (CEC)
PART 7	CURRENTLY VACANT
PART 8	2022 CALIFORNIA HISTORICAL BUILDING CODE
PART 9	2022 CALIFORNIA FIRE CODE (CFC)
PART 10	2022 CALIFORNIA EXISTING BUILDING CODE
PART 11	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
PART 12	2022 CALIFORNIA REFERENCED STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS:

2022 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTERS 35.

TITLE-24 NOTES

1. ALL THERMOSTATS SHALL HAVE A DEADBAND BETWEEN HEATING AND COOLING, CAPABLE OF ADJUSTMENT UP TO 10°F.
2. ALL EQUIPMENT DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FIXED IN PLACE IN ACCORDANCE WITH SEISMIC REQUIREMENTS.
3. REQUIRED ROUTINE MAINTENANCE ACTION SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE PERMANENT WEATHERPROOF LABEL. THE LABEL MAY BE LIMITED TO CROSS-REFERENCING THE MAINTENANCE MANUAL IF SUCHMAINTENANCE ACTION IS DESCRIBED THEREIN FOR THE LABELED ITEM.
4. AIR-HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN THE LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE CHAPTER 6 OR SMACNA GUIDELINES AS A MINIMUM.
5. ALL EQUIPMENT SHALL CONFORM TO AND BE CERTIFIED IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND THE REQUIREMENTS FOR SUCH DEVICES GIVEN IN THE PLANS AND SPECIFICATIONS APPROVED BY THE LOCAL ENFORCEMENT AGENCY.
6. ALL EQUIPMENT SHALL BE LABELED AS TO FUNCTION AND SPACES SERVED. (SEE SCHEDULE)

LIFE SAFETY CONTROL NOTES

1. COORDINATE WITH LIFE SAFETY CONTRACTOR FOR THE INTERCONNECTING NEW AIR ROOF MOUNTED PACKAGED UNITS AND MOUNTED HEAT PUMP UNITS AS INDICATED ON EQUIPMENT SCHEDULE NOTES WITH THE BUILDING FIRE ALARM SYSTEM FOR SHUT DOWN UPON A SIGNAL FROM THE FIRE ALARM SYSTEM.

SCOPE OF WORK

1. REMOVE AND DISCONNECT PARTIAL DUCTWORK SERVING STAGE IN BUILDING Y. REROUTE DUCTWORK AROUND STRUCTURAL UPGRADE.

ASBESTOS NOTES

1. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ON THE SITE MATERIAL REASONABLY BELIEVED TO BE ASBESTOS, LEAD BASE PAINT, OR ANY OTHER HAZARDOUS MATERIAL WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER AND ARCHITECT IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT THEREAFTER BE RESUMED EXCEPT BY WRITTEN AGREEMENT OF THE OWNER AND CONTRACTOR WHEN THE HAZARDOUS MATERIALS, IF ANY HAVE BEEN REMOVED FROM THE AFFECTED AREA, AND THE AREA HAS BEEN RENDERED HARMLESS. CONTRACTOR REMOVING HAZARDOUS MATERIALS SHALL COMPLY WITH ALL LAWS, ORDINANCES AND CODES.

MECHANICAL SHEET INDEX

IDENTIFICATION STAMP
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APP: 03-123908 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

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Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE
STRUCTURAL UPGRADE
OF REMAINING PORTIONS
OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION

1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
MECHANICAL FRONT SHEET

SHEET NUMBER
M001

HVAC ABBREVATIONS

ABBREVIATION	DESCRIPTION
AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AH	AIR HANDLING
BDD	BACK DRAFT DAMPER (WEIGHTED)
BFP	BACKFLOW PREVENTER
BT	BYPASS TIMER
BTUh	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CD	CEILING DIFFUSER
CH	CHILLER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CU	CONDENSING UNIT
CV	CONSTANT VOLUME,
CONT.	CONTINUES
CSFD	COMBINATION FIRE/SMOKE DAMPER
DAL	DISCHARGE AIR LOUVER
DB	DECIBELS
DBT	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DTR	DOWN THROUGH ROOF
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENRGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EFF	EFFICIENCY
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMS	ENERGY MANAGEMENT SYSTEM
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
°F	DEGREES, FAHRENHEIT
FAU	FORCED AIR UNIT
FC	FLEX CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLR	FLOOR
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FEET
FV	FACE VELOCITY
HZ	HERTZ
HPU	HEAT PUMP UNIT
HP	HORSE POWER
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
IN. W.C.	INCHES OF WATER COLUMN
IFM	INDOOR FAN MOTOR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LRA	LOCKED ROTOR AMPS
LSD	LINEAR SLOT SUPPLY DIFFUSER
LRD	LINEAR SLOT RETURN DIFFUSER
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPS
MCOP	MAXIMUM CIRCUIT AMPS
MD	MOTORIZED DAMPER
MIN	MINIMUM
MFS	MAXIMUM FUSE SIZE
MVD	MANUAL VOLUME DAMPER
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NK	NECK
NO	NUMBER
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OAL	OUTSIDE AIR LOUVER
OBD	OPPOSED BLADE DAMPER
OFM	OUTDOOR FAN MOTOR
OSA	OUTSIDE AIR
OAG	OUTSIDE AIR GRILLE
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SD	SUPPLY DIFFUSER
SEER	SEASONAL ENRGY EFFICIENCY RATIO
SF	SUPPLY AIR FAN
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SR	SUPPLY REGISTER
TD	TEMPERATURE DIFFERENCE
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TYP	TYPICAL
TSP	TOTAL STATIC PRESSURE
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UTR	UP THROUGH ROOF
V	VOLT
VENT	VENTILATION VENT
VERT	VERTICAL
VTR	VENT THROUGH ROOF
W/	WITH
W	WATT
WBT	WET BULB TEMPERATURE
WMS	WIRE MESH SCREEN
ZD	ZONE DAMPER
(ETR)	EXISTING TO REMAIN
(E)	EXISTING
(N)	NEW
(R)	REMOVE
(RL)	RELOCATED
(RS)	REMOVE & SAVE FOR RELOCATION
(DCV)	DEMAND CONTROL VENTILATION (CO2)

HVAC LEGNEDS AND SYMBOLS

ABBREVIATION	DESCRIPTION
	SUPPLY DUCT RISER IN PLAN
	RETURN DUCT RISER IN PLAN
	EXHAUST DUCT RISER IN PLAN
	RECTANGULAR DUCTWORK (WIDTH x DEPTH)
10x8	RECTANGULAR DUCTWORK (WIDTH x DEPTH)
10x8ø	FLAT OVAL DUCTWORK
8ø	ROUND DUCTWORK (SIZE, DIAMETER)
(L)	1" ACOUSTICALLY LINED DUCTWORK
	SQUARE-THROATED ELBOW W/TURNING VANES
	RADIUS ELBOW
NK= NK=	RADIUS TEE
NK= NK=	SQUARE-THROATED TEE
R/D R/D	CHANGE IN ELEVATION WITH RELATION TO AIR FLOW
	VOLUME DAMPER
	TRANSITION WITH FLAT SIDE
	TRANSITION ON CENTER
	RECTANGULAR-TO-ROUND TRANSITION
	TAKE-OFF TAP TO RECTANGULAR DUCT AND VOLUME DAMPER
	CONICAL TAP TO RECTANGULAR DUCT AND VOLUME DAMPER
CSFD CSFD	COMBINATION FIRE SMOKE DAMPER (CFSD)
FD FD	FIRE DAMPER (FD)
	FLEXIBLE CONNECTOR
	BACKDRAFT DAMPER
	BLAST GATE
	EXISTING DUCTWORK TO REMAIN (DASHED)
	EXISTING TO BE REMOVED (HATCHED)
	NEW DUCTWORK (SOLID)
X(L) X(L)	(L) NEW LINED DUCTWORK (SOLID)
X(DWL) X(DWL)	(DWL) NEW DOUBLE WALL LINED DUCTWORK (SOLID)
	NEW FLEXIBLE DUCT (MAXIMUM LENGTH 5'-0")
	ACCESS REQUIRED FOR EQUIPMENT SERVICE
	FLEXIBLE CONNECTION AT SEISMIC EXPANSION JOINT
	SIDE WALL REGISTER/GRILLE
	RETURN GRILLE WITH ACOUSTICALLY LINED BOOT
	CEILING DIFFUSER 4-WAY THROW
	CEILING DIFFUSER 3-WAY THROW
	CEILING DIFFUSER 2-WAY THROW
	CEILING DIFFUSER 2-WAY THROW
	CEILING DIFFUSER 1-WAY THROW
	RETURN AIR GRILLE
	EXHAUST GRILLE
	ROUND CCEILING DIFFUSER
	TRANSFER GRILLE W/GRILLE ON BOTH SIDES OF WALL
	DUCT WRAPPED WITH 3M FIRE WRAP
	ACCUVALVE
	ACCUVALVE (FUTURE)
	LINEAR CEILING DIFFUSER
T	THERMOSTAT (MAX. 48" A.F.F.)
TS	TEMPERATURE SENSOR (MAX. 48" A.F.F.)
CO2	CARBON DIOXIDE SENSOR (MAX. 48" A.F.F.)
WS	WINDOW SENSORS SWITCH
	MANUAL VOLUME DAMPER
	WEIGHTED BAROMETRIC DAMPER
AC X	EQUIPMENT TAG, DESCRIPTION AC, ROOFTOP PACKAGE GAS/ELECTRIC UNIT
1 M301	DETAIL REFERENCE, DETAIL 1, SHEET NUMBER
DL	DOOR LOUVER MIN. 12"x12"
DU	DOOR UNDERCUT MAX. 1"
1 M-1	SECTION REFERENCE, SECTION 1 SHEET M-1
SD	DUCT MOUNTED SMOKE DETECTOR
1	CONSTRUCTION NOTE #1
A	DEMOLITION NOTE #A
	POINT OF DISCONNECT
	POINT OF CONNECTION BETWEEN NEW AND EXISTING

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COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION		
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
MECHANICAL ABBREVIATIONS AND LEGENDS

SHEET NUMBER
M002

EXISTING AC UNIT SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	DRIVE	AIR FLOW CFM	ESP (") W.G.	O.V.	HP	ELECTRICAL DATA		
							V	PH	HZ
S-1	AMERICAN BLOWER - SIROCCO 397 SISW	BELT	15645	3/4"	1450	5	220	1	60
S-2	AMERICAN BLOWER - SIROCCO 360 SISW	BELT	10190	5/8"	1330	3	220	1	60
R-1	AMERICAN BLOWER - SIROCCO 397 SISW	BELT	12125	1/2"	1450	3	220	1	60
S-2	AMERICAN BLOWER - SIROCCO 360 SISW	BELT	10190	1/2"	1330	2	220	1	60

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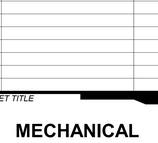

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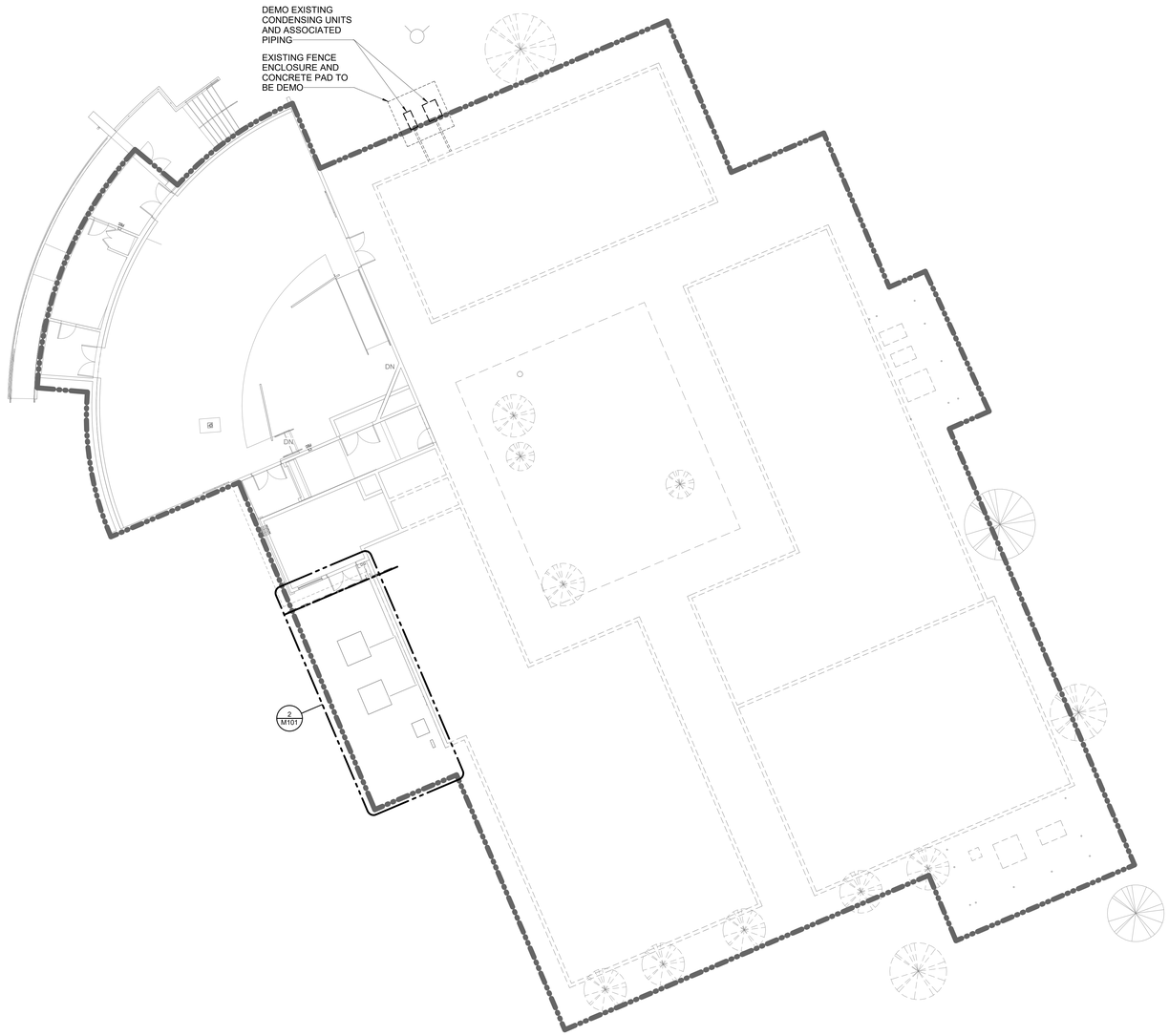
MECHANICAL SCHEDULE

SHEET NUMBER

M003



1 MECHANICAL DEMOLITION SITE PLAN
SCALE: 1" = 10'-0"

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SHEET TITLE
MECHANICAL DEMOLITION SITE PLAN

SHEET NUMBER
M100

8/1/2024 8:28:30 AM

Received By PCM3 on 08/19/2024

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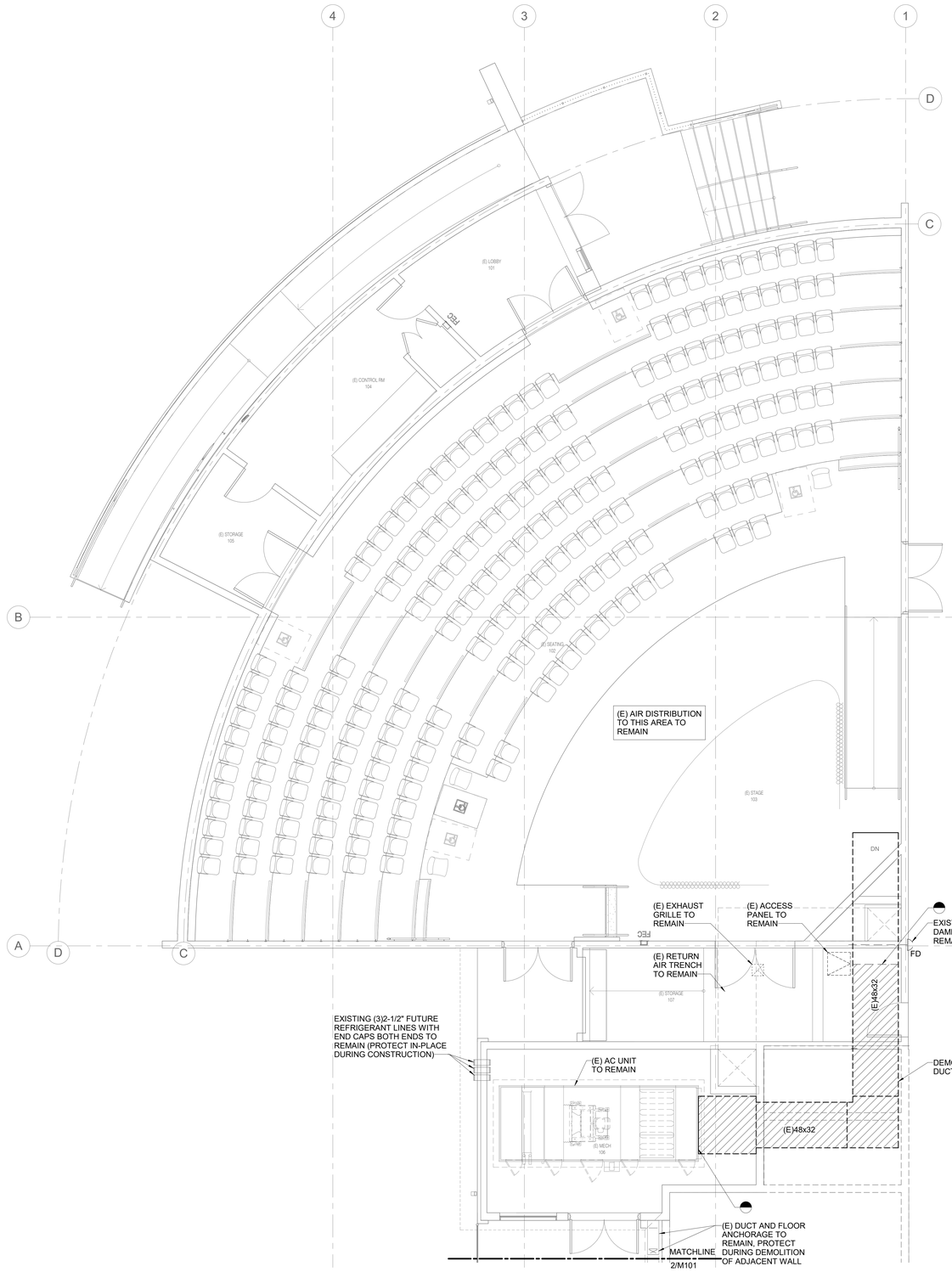

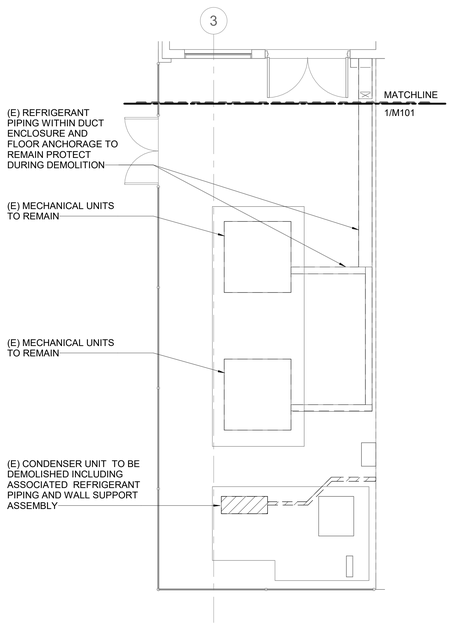

2 MECHANICAL DEMOLITION YARD PLAN
SCALE: 1/4" = 1'-0"

1 MECHANICAL DEMOLITION FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

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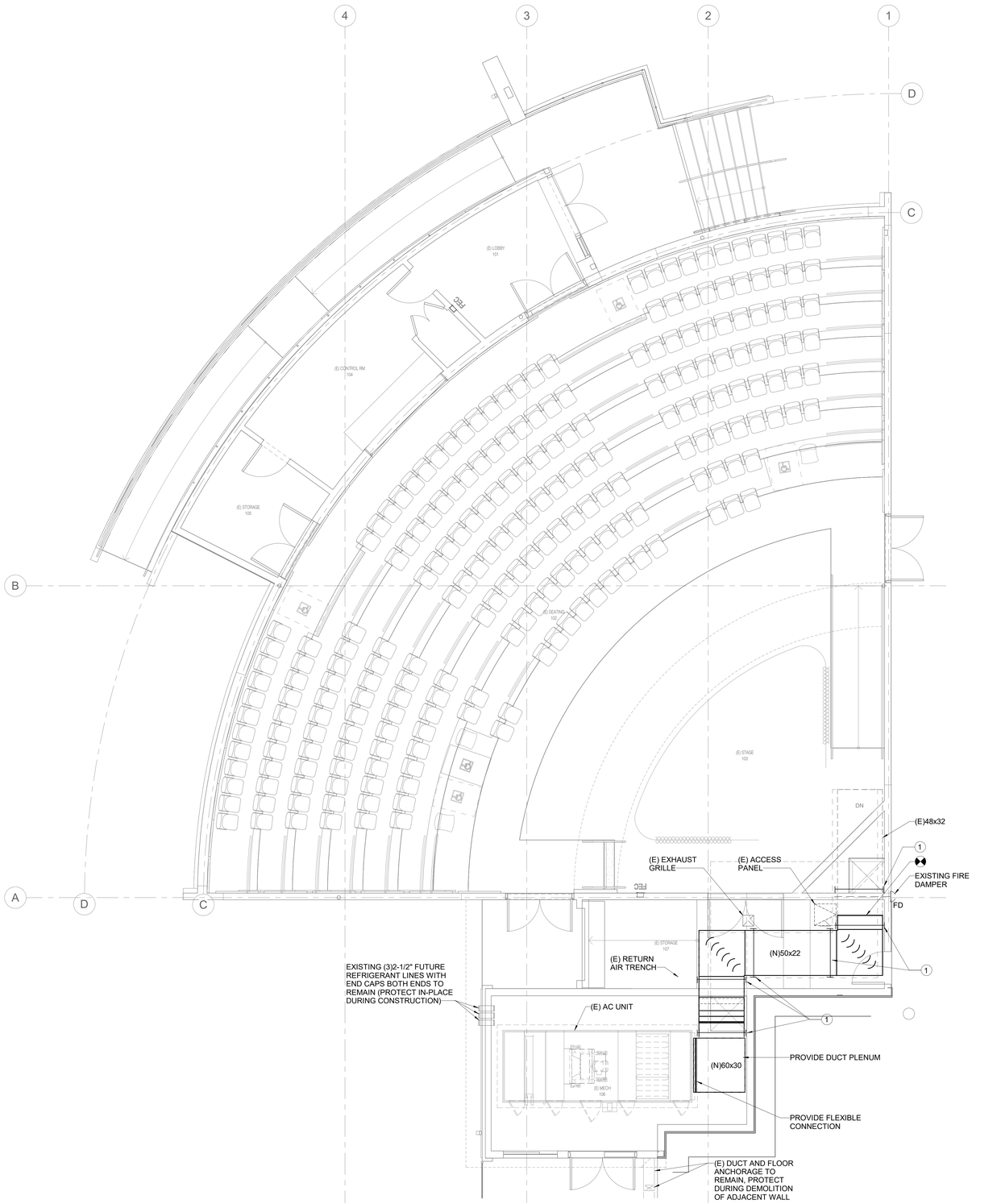
SHEET TITLE
MECHANICAL DEMOLITION FIRST FLOOR PLAN

SHEET NUMBER
M101

KEYNOTES

1. PROVIDE DUCT SUPPORTS PER DETAILS 1 AND 2 ON SHEET M301.



1 MECHANICAL FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

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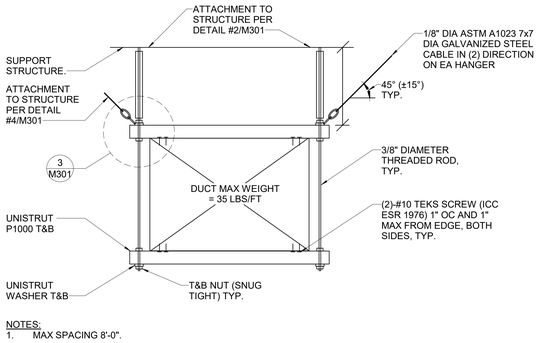
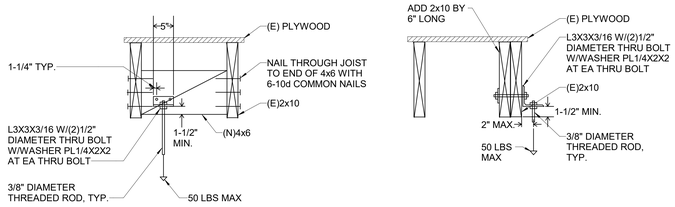
SHEET TITLE
MECHANICAL FIRST FLOOR PLAN

SHEET NUMBER
M102

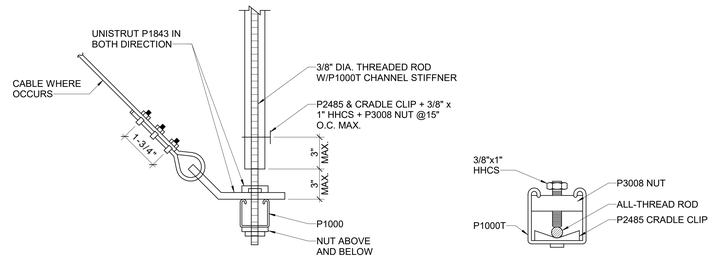


NOTES:
1. MAX SPACING 8'-0".

1 ATTACHMENT TO STRUCTURE CONNECTION DETAIL
SCALE: N.T.S.



2 ATTACHMENT TO STRUCTURE CONNECTION DETAILS
SCALE: N.T.S.



3 CABLE TO HANGER CONNECTION DETAIL
SCALE: N.T.S.

4 BRACE ATTACHMENT TO STRUCTURE CONNECTION DETAIL
SCALE: N.T.S.

5 PLAN VIEW OF BRACING
SCALE: N.T.S.

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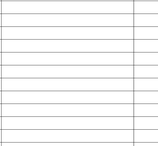

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SHEET TITLE
MECHANICAL DETAILS

SHEET NUMBER
M301

NOTES

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 A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test technician-certification-provider-program/acceptance.

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.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

MEP COMPONENT ANCHORAGE NOTE

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER 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 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE 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 THE 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, ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, 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 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g., HCAi OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUEL 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: OPTION 2: SHALL COMPLY WITH HCAi (OSHPD) PRE-APPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

GENERAL NOTES

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH 2022 CPC/CMC/CBC ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
2. ARCHITECTURAL AND STRUCTURAL PLANS ARE CONSIDERED A PART OF THE DESIGN DRAWINGS AND ARE TO BE USED TO DEFINE DETAIL CONFIGURATIONS INCLUDING, BUT NOT LIMITED TO RELATIVE LOCATION OF MEMBERS, ELEVATION, LOCATION OF ALL OPENINGS, ETC.
3. BEFORE STARTING ANY WORK, VERIFY THE ADEQUACY, LOCATION, SIZE, AND AVAILABILITY OF ALL UTILITIES CONCERNED, INCLUDING SEWER INVERT ELEVATIONS, AND WATER PRESSURE.
4. CLEANOUTS SHALL BE REQUIRED AS INDICATED ON THE PLANS AND INSTALLED PER SECTION 707.0 AND 719.0 OF THE PLUMBING CODE.
5. ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH "GUIDELINES FOR RESTRAINTS OF MECHANICAL SYSTEMS, PLUMBING PIPING SYSTEMS" PUBLISHED BY SMACNA.

APPLICABLE CODES

PART 1 - 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), TITLE 24 CCR

PART 2 - 2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 CCR (BASED ON 2021 INTERNATIONAL BUILDING CODE - IBC)

PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 CCR (BASED ON 2020 NATIONAL ELECTRICAL CODE - NEC OF THE NFPA)

PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 CCR (BASED ON 2021 UNIFORM MECHANICAL CODE - UMC OF THE IAPMO)

PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 CCR (BASED ON 2021 UNIFORM PLUMBING CODE - UPC OF THE IAPMO)

PART 6 - 2022 CALIFORNIA ENERGY CODE, TITLE 24 CCR

PART 7 - CURRENTLY VACANT

PART 8 - 2022 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 CCR

PART 9 -"2022 CALIFORNIA FIRE CODE (CFC), TITLE 24 CCR (BASED ON 2021 INTERNATIONAL FIRE CODE - IFC OF THE ICC)

PART 10 - 2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 CCR (BASED ON 2021 INTERNATIONAL EXISTING BUILDING CODE - IEBC OF THE ICC, WITH AMENDMENTS)

PART 11 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 CCR

PART 12 - 2022 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 CCR

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	W	WASTE PIPING ABOVE FINISHED GRADE
	W	WASTE PIPING BELOW FINISHED GRADE
PW	PW	PUMPED WASTE PIPING ABOVE FINISHED GRADE
EW	EW	EXISTING WASTE PIPING
	V	VENT PIPING ABOVE FINISHED GRADE
V	V	VENT PIPING BELOW FINISHED GRADE
EV	EV	EXISTING VENT PIPING
	SD	STORMDRAIN PIPING BELOW FINISHED GRADE
OD	OD	OVERFLOW DRAIN PIPING ABOVE FINISHED GRADE
	CW	COLD WATER PIPING ABOVE FINISHED GRADE
CW	CW	COLD WATER PIPING BELOW FINISHED GRADE
ECW	ECW	EXISTING COLD WATER PIPING
	HW	HOT WATER PIPING ABOVE FINISHED GRADE
	HWR	HOT WATER RETURN PIPING ABOVE FINISHED GRADE
EHW	EHW	EXISTING HOT WATER PIPING
CD	CD	CONDENSATE PIPING ABOVE FINISHED GRADE
PCD	PCD	PUMP CONDENSATE PIPING ABOVE FINISHED GRADE
MPG	MPG	MEDIUM PRESSURE GAS PIPING BELOW/ABOVE FINISHED GRADE
G	GAS	GAS PIPING BELOW/ABOVE FINISHED GRADE
		EXISTING PIPING TO BE REMOVED
	-	DROP IN PIPE
	-	RISE IN PIPE
	-	DIRECTION OF FLOW
	HB	HOSE BIBB
	WCO	WALL CLEANOUT
	-	FLOOR CLEANOUT TO GRADE
	U	UNION
	S.O.V.	SHUT-OFF VALVE
	FD	FLOOR DRAIN
	OS & Y	OUTSIDE SCREW AND YOKE VALVE
	BV	BALL VALVE
	CV	CHECK VALVE
	-	GAS SHUT-OFF COCK
	POC	POINT OF CONNECTION
	POD	POINT OF DEMOLITION
	CO	CLEAN-OUT
	FF	FINISHED FLOOR
	FU	FIXTURE UNIT
	GPM	GALLONS PER MINUTE
	I.E.	INVERT ELEVATION
	NTS	NOT TO SCALE
	SOV	SHUT-OFF VALVE
	TDL	TOTAL DEVELOPED LENGTH
	TYP	TYPICAL
	WHA	WATER HAMMER ARRESTOR
	ECD	EXISTING CONDENSATE

PIPE AND FITTING MATERIALS

TYPE	SIZE	MATERIAL	FITTINGS	JOINTS	LOCATION
STORM DRAIN	ALL SIZES	HUB LESS CAST IRON	HUB LESS CAST IRON	NO-HUB CAST IRON 2 BEND S.S. COUPLING	ABOVE GRADE & BELOW GRADE INSIDE/OUTSIDE BLDG

SCOPE OF WORK

1. TO TEMPORARELY REMOVE ROOF DRAIN AND TOO REINSTALLED AFTER ROOFING UPGRADE.

PLUMBING SHEET INDEX

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ISSUE DESCRIPTION

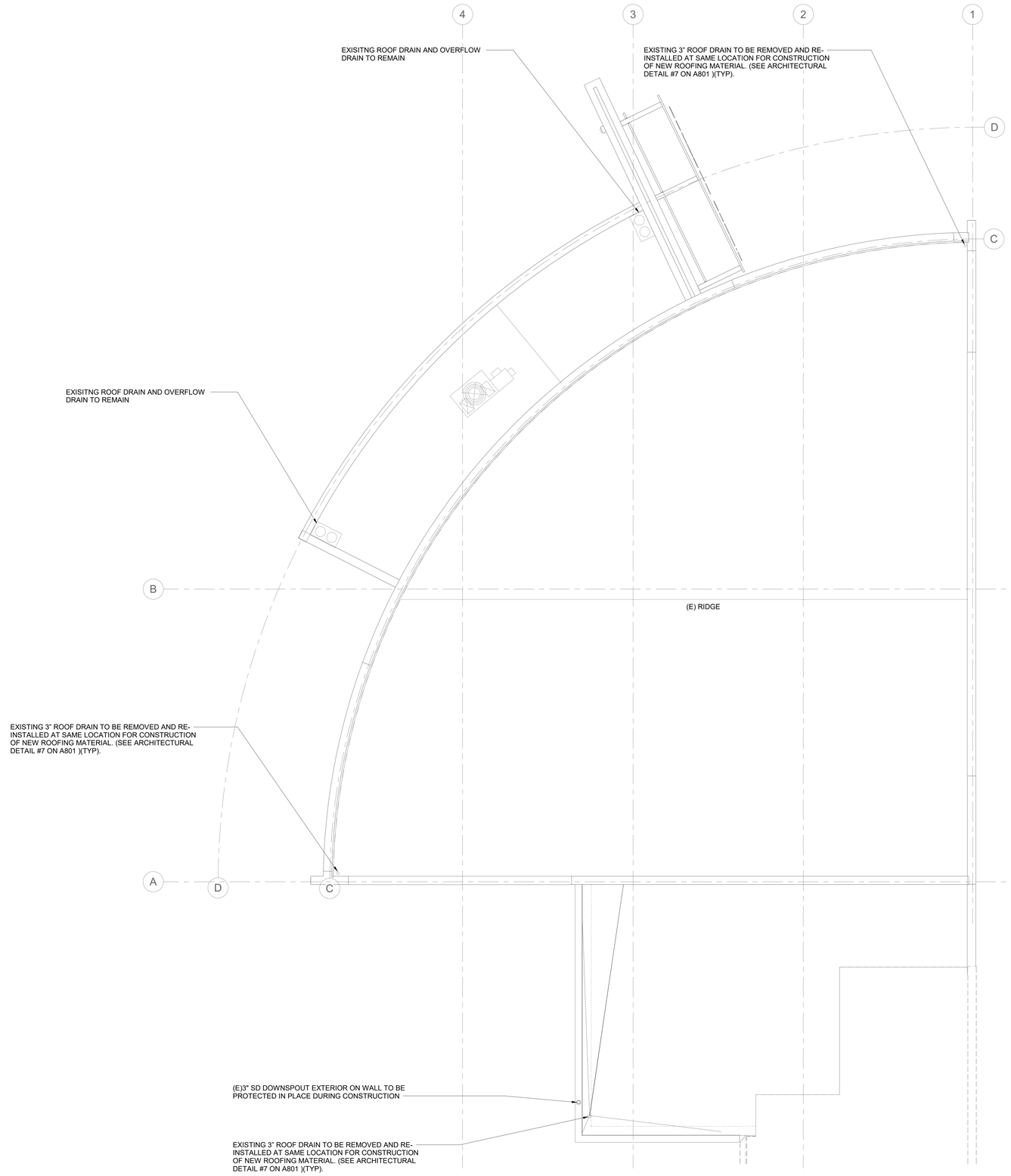
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE

PLUMBING FRONT SHEET

SHEET NUMBER

P001



1 PLUMBING DEMOLITION ROOF PLAN
SCALE: 1/4" = 1'-0"

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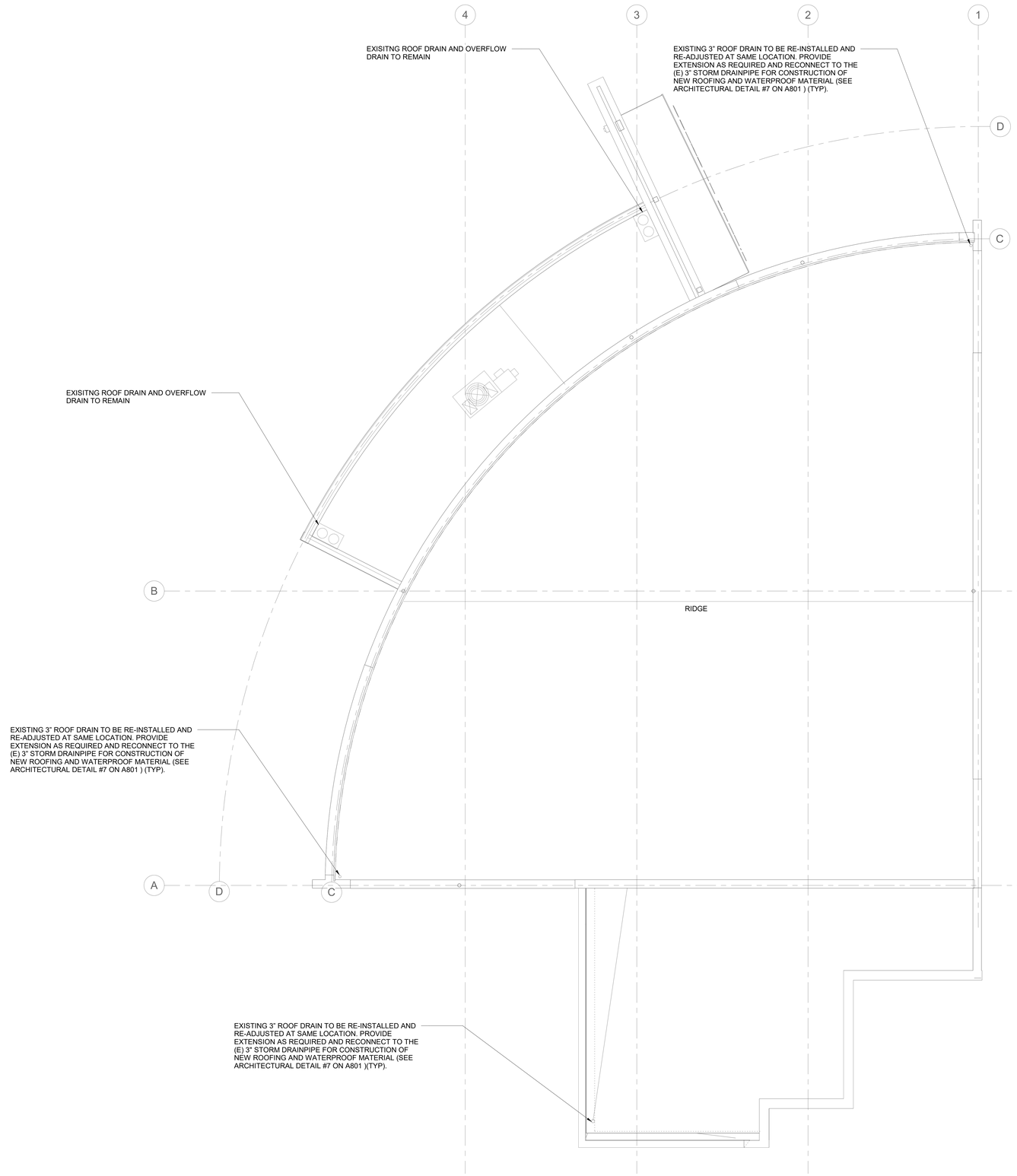
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
PLUMBING DEMOLITION ROOF PLAN

SHEET NUMBER
P121



1 PLUMBING ROOF PLAN
SCALE: 1/4" = 1'-0"

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PLUMBING ROOF PLAN

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P122

ELECTRICAL SYMBOLS

(NOTE: NOT ALL SYMBOLS ARE USED)

A 5a A 5a — LIGHTING FIXTURES, "5" DENOTES CIRCUIT NUMBER, LOWER CASE "a" DENOTES CONTROLLING SWITCH AND/OR RELAY, UPPER CASE "A" DENOTES FIXTURE TYPE.

4 FT LED STRIP LIGHTS

B — RECESSED CEILING MOUNTED FIXTURE: UPPER LETTER INDICATES TYPE (U.O.N.).

F — WALL MOUNTED LIGHT FIXTURE: UPPER LETTER INDICATES TYPE.

F — EXIT SIGN WITH JUNCTION BOX APPROVED FOR THROUGH WIRING. UNIVERSAL MOUNT DIRECTIONAL ARROW AS SHOWN ON PLAN. CONNECT TO CONSTANT HOT CIRCUIT.

"E" OR "INV" / "E" OR "INV" — LIGHTING FIXTURE WITH BUILT-IN BATTERY PACK OR FEED FROM AN INVERTER

XR — DISCONNECT AND REMOVE EXISTING CONDUIT

A-1,3,5 — HOMERUN TO PANEL "A", CIRCUITS 1,3,5, CROSS LINES INDICATE NUMBER OF #12 IN ADDITION TO 1#12 GREEN GROUND. 3/4"C., U.O.N.

3/4"C, 2 #12 & 1 #12 GRND.
3/4"C, 3 #12 & 1 #12 GRND.
3/4"C, 4 #12 & 1 #12 GRND.
3/4"C, 5 #12 & 1 #12 GRND.
1"C, 6 #10 & 1 #10 GRND.
1"C, 7 #10 & 1 #10 GRND.
1"C, 8 #10 & 1 #10 GRND.

CONTACTOR SHALL PROVIDE CONDUIT AND WIRING PER CIRCUITS ON HOMERUNS FOR THE ELECTRICAL INSTALLTION WEATHER OR NOT HASH MARKS HAVE BEEN INDICATED ON PLANS.

POWER SYSTEM

- JUNCTION BOX: SURFACE MOUNTED OR INSIDE WALL
- W.P — JUNCTION BOX WEATHER PROOF : SURFACE MOUNTED OR INSIDE WALL
- DUPLEX RECEPTACLE: 125V., 20 AMP., NEMA 5-20R. +18" U.O.N.
- DUPLEX RECEPTACLE: 125V., 20 AMP., NEMA 5-20R. CEILING MOUNTED.
- G.F.I. DUPLEX RECEPTACLE, 20A, 125 VOLTS, NEMA 5-20R, +18" U.O.N.
- SWITCH CONTROLLED SPLIT LOAD DUPLEX RECEPTACLE: 125V., 20 AMP., NEMA 5-20R. +18" U.O.N.
- SWITCH CONTROLLED SPLIT LOAD QUAD RECEPTACLE: 125V., 20 AMP., NEMA 5-20R. +18" U.O.N.
- GFI — G.F.I. DUPLEX BLUE RECEPTACLE, 20A, 125 VOLTS, NEMA -----, +18" U.O.N.
- SURGE DUPLEX RECEPTACLE: 125V., 20 AMP., NEMA 5-20R. CEILING MOUNTED.
- c — SPLIT WIRED PLUG LOAD CONTROLLED DUPLEX RECEPTACLE: 125V, 15A, NEMA 5-15R. UNLESS OTHERWISE NOTED. +18" U.O.N. PROVIDE LABEL "CONTROLLED" IN WHITE LETTER WITH BLACK BACKGROUND ON THE PLUG LOAD RECEPTACLE
- c — QUAD RECEPTACLES. ONE NORMAL AND ONE PLUG LOAD CONTROLLED RECEPTACLE: 125V, 15A, NEMA 5-15R.UNLESS OTHERWISE NOTED. +18" U.O.N. PROVIDE LABEL "CONTROLLED" IN WHITE LETTERS WITH BLACK BACKGROUND ON THE PLUG LOAD RECEPTACLE.

- G — GROUND ROD IN GROUND YARD BOX INSIDE LANDSCAPED AREA.
- DISTRIBUTION PANEL
- F — 480V, HEAVY DUTY DISCONNECT SWITCH. H.P. RATED, PER EQUIPMENT MFC., 3P U.O.N. "F" INDICATES FUSED, PROVIDE FUSE SIZE BASED ON NAMEPLATE RATING OF EQUIPMENT.
- HEAVY DUTY COMBINATION FUSED MOTOR DISCONNECT SWITCH W/RK5 FUSE AND MAGNETIC MOTOR STARTER SIZED ACCORDING TO MOTOR MANUFACTURER RECOMMENDATIONS (STARTER SIZE 1, MIN.) WITH A SOLID STATE ADJUSTABLE OVERLOAD PROTECTION, WITH HOA SWITCH AND (2)FORM C CONTROL CONTACTS, MOUNTED, +48" TO TOP OF OPERATING HANDLE, U.O.N.
- FDL — "FDL" DESIGNATES HEAVY DUTY FUSED DISCONNECT SWITCH WITH DUAL LUGS AT THE FEEDERS, FUSES SIZED PER HVAC UNIT NAMEPLATE RATING, "F" DESIGNATES A 30A/3P HEAVY DUTY DISCONNECT SWITCH CONNECTED TO THE POWER EXHAUST UNIT AND SIZED PER POWER EXHAUST MANUFACTURER RATING.
- FLUSH MOUNTED 2 GANG DEEP FLOOR BOX WITH (1) DUPLEX RECEPTACLE AND (2) DATA OUTLET.
- F — FAN (EXHAUST FAN OR FLY FAN), SIZE AS INDICATED.
- 5 — MOTOR, SIZE AS INDICATED. NUMBER INDIACTES "HP" RATINGS.
- SURFACE MOUNTED PANELBOARD
- FLUSH MOUNTED PANELBOARD PROVIDE (2) SPARE 3"C.O. TO THE CEILING SPACE.
- DISTRIBUTION PANELBOARD
- MAIN SWITCHBOARD
- T — TRANSFORMER

"T" CABLE - 4 PAIR #24 UTP CATEGORY 6 CABLE.

"TW" CABLE - 4 PAIR #24 UTP CATEGORY 6 (WET LOCATION).

"D" CABLE - 4 PAIR #24 UTP CATEGORY 6 CABLE (COMPUTER DATA).

"A" CABLE - 4 PAIR #24 UTP CATEGORY 6 CABLE (CARD ACCESS SYSTEM).

"DW" CABLE - 4 PAIR #24 UTP CATEGORY 6 CABLE FLOODED TYPE AS MANUFACTURED BY COMPOSE (UNDERGROUND).

TYPICAL MOUNTING HEIGHTS ABOVE FINISHED FLOOR
(UNLESS OTHERWISE NOTED ON DRAWINGS).

+48": LIGHT SWITCHES, DIMMER SWITCHES, FIRE ALARM PULL STATION, T-STATS, BY-PASS TIMER, WALL TELEPHONE, DETECTOR TEST PANEL, INTERCOM CALL SWITCH, SPEAKER VOLUME CONTROL, OUTLET, UNLESS OTHERWISE NOTED (MEASURED TO TOP OF BACKBOX). REFER TO DETAIL#1/SHEET #E801 FOR MOUNTING HEIGHTS OF ELECTRICAL SWITCHES/CONTROLS OVER AN OBSTRUCTION.

+18": ALL DUPLEX RECEPTACLES, WALL OUTLETS FOR DESK TELEPHONE, COMPUTER OUTLETS, UNLESS OTHERWISE NOTED (MEASURED TO CENTER OF BOX).

STANDARD ABBREVIATIONS

A OR AMP	AMPERES	CLK.	CLOCK SYSTEM
AFF	ABOVE FINISH FLOOR	J.BOX	JUNCTION BOX
BKR.	BREAKER	KW	KILOWATTS
BC	BARE COPPER	MDF	MAIN DISTRIBUTION FRAME
C	CONDUIT	N.I.C.	NOT IN CONTRACT
CKT.	CIRCUIT	PA	PUBLIC ADDRESS
C.O.	CONDUIT ONLY	PABX	PHONE BOARD EXCHANGE
D	DEPTH	PH OR ∅	PHASE
F.A.	FIRE ALARM	SL	SECURITY LIGHTING.
FLA	FULL LOAD AMPERES	SLC	SIGNALING LINE CIRCUIT
FO	FIBER OPTIC	SW.	SWITCH
GRND.	GROUND	TYP.	TYPICAL
G.F.I.	GROUND FAULT INTERRUPTER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
H.P.	HORSEPOWER	UG	UNDERGROUND
IDF	INTERMEDIATE DISTRIBUTION FRAME	U.O.N.	UNLESS OTHERWISE NOTED
Isc	AVAILABLE SHORT CIRCUIT CURRENT.	W.P./ WP	WEATHERPROOF
SEC.	SECURITY SYSTEM	XFMR	TRANSFORMER
LADWP	LOS ANGELES DEPARTMENT OF WATER AND POWER	XR	DISCONNECT AND REMOVE EXISTING DEVICE OR EQUIPMENT
LV	LOW VOLTAGE.	ER	DISCONNECT AND REMOVE EXISTING CABLES IN EXISTING CONDUIT.
		E	EXISTING

VOICE/DATA SYSTEM

1D — 3/4"C - (1) DATA SYSTEM CONDUIT RUN; 4-PAIR UTP CAT6 CABLE.
2D — 3/4"C - (2) DATA SYSTEM CONDUIT RUN; 4-PAIR UTP CAT6 CABLE.

WALL MOUNTED (1) DATA OUTLETS. PROVIDE 3/4"C TO ACCESSIBLE CEILING SPACE AND (1) CAT 6 CABLES TO IDF ; +18"AFF

1 / 1 — WALL MOUNTED DATA/TEL OUTLETS. PROVIDE 3/4"C TO ACCESSIBLE CEILING SPACE AND (2) CAT 6 CABLES TO IDF ; +18"AFF

P — CEILING MOUNTED PROJECTOR

CEILING MOUNTED DATA OUTLET. PRIVIDE (1) CAT 6 CABLE TO IDF

WAP — CEILING MOUNTED WIRELESS ACCESS POINTS IN T-BAR CEILINGS, HARD LID CEILING OR OPEN CEILING. PROVIDE 4S J-BOX WITH 1-GANG RING WITH (2) CAT-6 CABLE FROM EACH DEVICE TO SERVER ROOM.

WALL SWITCH OCCUPANCY SENSOR DUAL TECHNOLOGY ACUITY nWSX-PDT-LV-WH-LT,+48" AFF.

RP — ACUITY RELAY PACK nPP16-EFP.

RP1 — LMRC-111 (1) RELAY 0-10V DIMMING

RP2 — LMRC-112 (2) RELAY 0-10V DIMMING

PC — LMLS-500 MULTI ZONE DAYLIGHT SENSOR

OS — LMDC-100 CEILING OCC SENSOR

ELU — ELCU-200 EMERGENCY SHUNT RELAY

S_{Ka} — DIGITAL KEY SWITCH WITH STAINLESS STEEL PLATE WALL MOUNTED, ACUITY WALL MOUNTED nPOD-KEY-STS.+48"AFF.

S — WALL SWITCH, +48"AFF

S_D — LMDM-101 DIMMING SWITCH, WALL MOUNTED, +48" AFF.

ab S_D — LMSW-104 (4) BUTTON SWITCH, WALL MOUNTED, +48" AFF.

abc S_D — LMSW-104 (5) BUTTON SWITCH, WALL MOUNTED, +48" AFF.

S_{OD} — DW-311 WALL OCC SENSOR 0-10V DIMMING, WALL MOUNTED, +48" AFF.

NOTES

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 A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test technician-certification-provider-program/acceptance.

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.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

Applicable Code: 2022 CBC

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 2022 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g., hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

A. Components weighing less than 400 pounds and having 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.

Applicable Code: 2022 CBC

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 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2022 CBC, Sections 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., HCAI 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.

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1,TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2021 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2016 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
(2021 INTERNATIONAL EXISTING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2022 ED.
NFPA 14	STANDARD FOR STANDPIPE AND HOSE SYSTEMS	2019 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2017 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2022 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2018 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES	2022 ED.
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2022 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2022 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2018 ED.
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED.
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED.
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS	2017 ED.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

SCOPE OF WORK

STRUCTURAL UPGRADES TO THE REMAINING PORTIONS OF EXISTING BUILDING Y.RELOCATING EXISTING IDF AND BLUE PHONE TO NEW LOCATION.

GENERAL NOTES

1. CONSULT WITH THE OAR BEFORE STARTING WORK.
2. NO CONDUITS ARE TO BE INSTALLED ON ARCADES OR ROOF U.O.N. ANY CONDUITS INSTALLED ON ROOF SHALL BE LIMITED TO 5'-0" OF SOLAR EXPOSURE. CONDUIT RUNS TO ROOF MOUNTED EQUIPMENT SHALL BE ACCOMPLISHED USING RUNS BELOW ROOF UNTIL UNDER THE EQUIPMENT, THEN THE RUN SHALL PENETRATE THE ROOF AT THE EQUIPMENT.
3. COORDINATE THE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES.
4. THE CONTRACTOR SHALL USE SUFFICIENT BARRICADES AND TEMPORARY PROTECTION DEVICES TO PREVENT PEDESTRIANS OR NON-AUTHORIZED PERSONNEL ACCESS TO ANY OPEN TRENCHES OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ERECT A SAFETY BARRICADE AT ALL OPEN TRENCHES, DITCHES, PITS, SUMPS, ETC FOR THE PROTECTION AND SAFETY OF THE PUBLIC. ALL TRENCHES OUTSIDE OF THE BARRICADE LIMITS SHALL BE BACKFILLED AND PAVED NOT LATER THAN 72 HOURS AFTER BEING OPENED. DURING THE TIME THE TRENCHES ARE OPEN IN TRAFFIC AREAS, THE CONTRACTOR SHALL PROVIDE TRAFFIC PLATES. SAFETY BARRICADES SHALL BE PANELIZED CHAIN LINK FENCE. EACH FENCE PANEL SHALL BE 6FT TALL x 10FT WIDE WITH STAND AND TIED TOGETHER END TO END WITH A MINIMUM 8-GAUGE WIRE. NO TRENCHES SHALL BE LOCATED OUTSIDE BARRICADES.
5. ALL FEEDER AND BRANCH CIRCUIT RACEWAYS SHALL CONTAIN A GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC ARTICLE 250.
6. ALL UNDERGROUND CONDUITS SHALL BE ENTIRELY ENCASED IN CONCRETE 3" THICK ON ALL SIDES WITH MULTIPLE CONDUITS SPACED NOT LESS THAN 3" APART. MINIMUM DEPTH OF NOT LESS THAN 24" BELOW FINISHED GRADE TO THE TOP OF CONCRETE ENVELOPE.
7. ALL RACEWAYS INSIDE CLASSROOMS AND OFFICES SHALL BE CONCEALED.
8. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.
9. PRIOR TO PULLING ANY CONDUCTORS, CLEAN AND MANDREL ALL CONDUITS.
10. CONTRACTOR SHALL INSTALL EQUIPMENT PER ADA (AMERICAN DISABILITIES ACT) REQUIREMENTS.
11. DRAWINGS DO NOT SHOW ALL THE NECESSARY PULLBOXES. PROVIDE ALL PULLBOXES TO COMPLY WITH CODES AND STANDARDS AND TO TERMINATE CONDUITS AND RACEWAYS PER MANUFACTURER'S RECOMMENDATIONS THROUGHOUT SITE.
12. EXTERIOR EQUIPMENT, JUNCTION BOXES, ENCLOSURES AND CONNECTIONS SHALL BE WEATHERPROOF TYPE SUITABLE FOR EXTERIOR INSTALLATION.
13. COORDINATION:
    A. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THE FEATURES SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
    B. BEFORE STARTING ANY UNDERGROUND WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY (OFF DISTRICT PROPERTY LINE) COMPANIES IN ORDER TO LOCATE EXISTING UNDERGROUND LINES. IN THE EVENT THAT DURING THE UNDERGROUND WORK THE CONTRACTOR DAMAGES ANY EXISTING LINES, IT WILL BE HIS RESPONSIBILITY TO DO ALL NECESSARY REPAIR WORK AT HIS EXPENSE.
14. THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "PROVIDED BY OTHERS" .
15. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER AND RATED FOR 600 VOLTS AT 90°C, WITH INSULATION TYPE THHN, THWN-2 OR XHHW. ALL CONDUCTORS #10 AND LARGER SHALL BE STRANDED, #12 AND SMALLER MAY BE EITHER STRANDED OR SOLID. PROVIDE APPROVED TERMINATIONS FOR ALL CONDUCTORS.
16. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED FLOOR SLABS, SHAFTS AND WALLS SHALL BE SEALED AGAINST THE SPREAD OF FIRE OR SMOKE WITH APPROVED CABLE & CONDUIT FIRE STOPS OR FIRE RESISTANT SEALANT TO GIVE THE EQUIVALENT FIRE RATING BEFORE AND AFTER THE PENETRATION.
17. PROVIDE NYLON PULL CORD OR STRINGS IN ALL EMPTY CONDUITS.
18. ALL JUNCTION BOX COVER PLATES FOR BRANCH CIRCUIT SYSTEM SHALL BE CLEARLY MARKED WITH PERMANENT INK FELT PEN IDENTIFYING THE BRANCH CIRCUIT (BOTH PANEL NUMBER AND CIRCUIT NUMBER) CONTAINED IN THE BOX.
19. THE CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN ALL CONDUITS/RACEWAYS.
20. TEST THE ENTIRE SYSTEM TO DEMONSTRATE TO THE OAR THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION.
21. EXPOSED CONDUITS SHALL BE INSTALLED ALONG MECHANICAL PIPES. INSIDE BUILDING THE EXPOSED CONDUITS UP TO 7'-0" SHALL BE RIGID STEEL AND ABOVE 7'-0" MAY BE EMT. ALL EXPOSED EXTERIOR CONDUITS SHALL BE GALVANIZED RIGID CONDUIT. THREADLESS CONNECTORS & COUPLINGS SHALL NOT BE USED. ALL EXPOSED CONDUITS, RACEWAYS, AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED. DO NOT PAINT THE WIREMOLD.

ELECTRICAL SHEET INDEX

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123908 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

Structure
ADVANCED ARCHITECTURE
3324 GRAND VIEW
LOS ANGELES, CALIFORNIA 90066
TELEPHONE (310) 748-7649
E-MAIL HRAZTAN@STRUERE.COM
WWW.STRUERE.COM

Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
WWW.BUDLONG.COM
Job No: 21-250.C1

REGISTERED PROFESSIONAL ENGINEER
HAKNAN H. CHRISTIAN
No. E 22864
Exp. 6/30/25
ELECTRICAL
STATE OF CALIFORNIA

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE
STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION

1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
ELECTRICAL FRONT SHEET

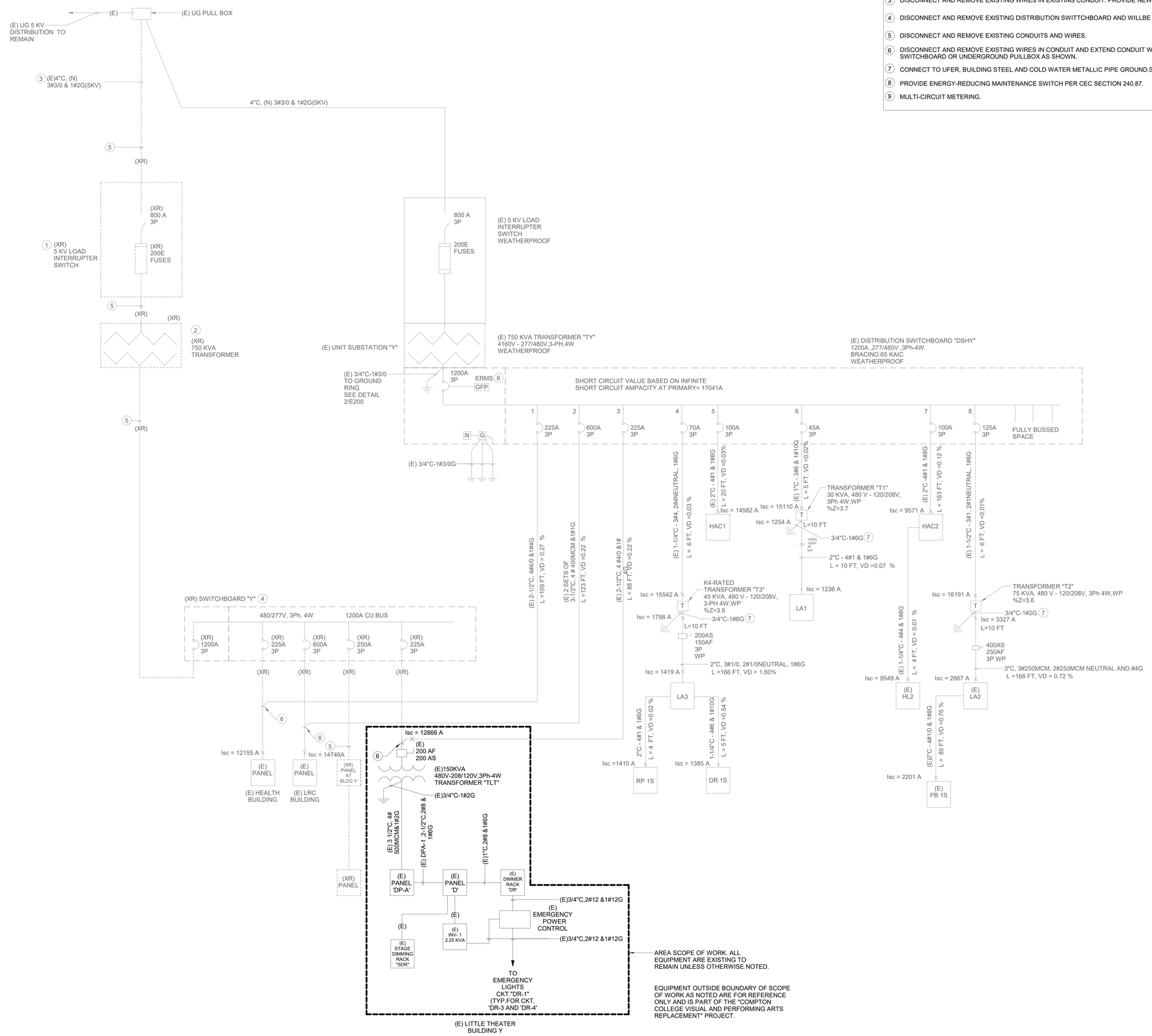
SHEET NUMBER
E001

KEY NOTES

1. DISCONNECT AND REMOVE EXISTING 5KV LOAD INTERRUPTER SWITCH AND WILL BE REPLACED WITH NEW AT A DIFFERENT LOCATION.
2. DISCONNECT AND REMOVE EXISTING TRANSFORMER AND WILL BE REPLACED WITH NEW AT A DIFFERENT LOCATION.
3. DISCONNECT AND REMOVE EXISTING WIRES IN EXISTING CONDUIT. PROVIDE NEW WIRES IN EXISTING CONDUIT AS SHOWN.
4. DISCONNECT AND REMOVE EXISTING DISTRIBUTION SWITTCHBOARD AND WILLBE REPLACE WITH NEW AT DIFFERENT LOCATION.
5. DISCONNECT AND REMOVE EXISTING CONDUITS AND WIRES.
6. DISCONNECT AND REMOVE EXISTING WIRES IN CONDUIT AND EXTEND CONDUIT WITH NEW WIRES TO NEW DISTRIBUTION SWITCHBOARD OR UNDERGROUND PUILLBOX AS SHOWN.
7. CONNECT TO UFER, BUILDING STEEL AND COLD WATER METALLIC PIPE GROUND.SEE DETAIL 2/E200
8. PROVIDE ENERGY-REDUCING MAINTENANCE SWITCH PER CEC SECTION 240.87.
9. MULTI-CIRCUIT METERING.

GENERAL NOTES

1. LENGTH OF FEEDERS SHOWN ON SINGLE LINE DIAGRAM ARE NOT BE USED FOR CONSTRUCTION OR BIDDING PURPOSE, CONTRACTOR TO VERIFY ACTUAL LENGTH REQUIRED.
2. ALL EQUIPMENT SHALL BE LISTED AND LABELLED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
3. ALL DEVICES AND TERMINALS SHALL BE RATED FOR 75 C AAND SHALL BE TORQUED TO MANUFACTURE'S LISTED SPECIFICATION.
4. ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (CEC-250.122), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
5. EQUIPMENT/DEVICES AND TERMINATIONS ARE RATED FOR 75 DEGREE CELCIUS AND FOR USE WITH 75 DEGREE RATED CONDUCTOR.
6. ALL CONDUCTORS TO BE COPPER TYPE THWN-2/THHN-2.



SINGLE LINE DIAGRAM
N.T.S

Structure
ADVANCED ARCHITECTURE
3324 GRAND VIEW
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Budlong
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Job No: 21-250.C1

REGISTERED PROFESSIONAL ENGINEER
HRANAN H. CHRISTIAN
E 22864
9/30/25
ELECTRICAL
STATE OF CALIFORNIA

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD, COMPTON, CA 90221-5393

ISSUE DESCRIPTION

1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
ELECTRICAL SINGLE LINE DIAGRAM

SHEET NUMBER
E002

(E) PANEL - DPA

MOUNTING: SURFACE
FED FROM: (E) 150 KVA TRASFORMER
LOCATION: (E) MECH 106

BUS RATING/TYPE: 400 A/COPPER
MAIN: 400 A
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	A		B		C		OCPD P	AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	(E) AHU -1	70 A	3	6600	7764					3	80 A	(E) CU -1	2	
--	3	--	--	--			6600	7764			--	--	--	4	--
--	5	--	--	--					6600	7764	--	--	--	6	--
	7	(E) FIRE ALARM DAMPER	20 A	1	500	7764					3	80 A	(E) CU -2	8	
	9	(E) EF-1	20 A	1			500	7764			--	--	--	10	--
	11	(E) RECEPTACLE	20 A	1					500	7764	--	--	--	12	--
	13	(E) EMS PANEL	20 A	1	500	0					1	20 A	SPARE	14	--
	15	**REC.-IDF**	**20 A**	**1**			**500**	0			1	20 A	SPARE	16	--
1	**17**	**FACP**	**20 A**	**1**					**500**	0	1	20 A	SPARE	18	--
1	**19**	**FCPS**	**20 A**	**1**	**500**	0					1	20 A	SPARE	20	--
--	21	SPARE	20 A	1			0	0			1	20 A	SPARE	22	--
--	23	SPARE	20 A	1					0	0	1	20 A	SPARE	24	--
--	25	SPARE	20 A	1	0	0					1	20 A	SPARE	26	--
--	27	SPARE	20 A	1			0	0			1	20 A	SPARE	28	--
--	29	SPARE	20 A	1					0	0	1	20 A	SPARE	30	--
--	31	SPARE	20 A	1	0	0					1	20 A	SPARE	32	--
--	33	SPARE	20 A	1			0	0			1	20 A	SPARE	34	--
--	35	SPARE	20 A	1					0	9472	3	225 A	PANEL D	36	--
--	37	SPARE	20 A	1	0	6194					--	--	--	38	--
--	39	SPARE	20 A	1			0	7602			--	--	--	40	--
--	41	SPARE	20 A	1					0	--	1	--	SPACE	42	--
			Total...		29822 VA		30730 VA		32600 VA						
			Total...		248.52		257.25		272.83						

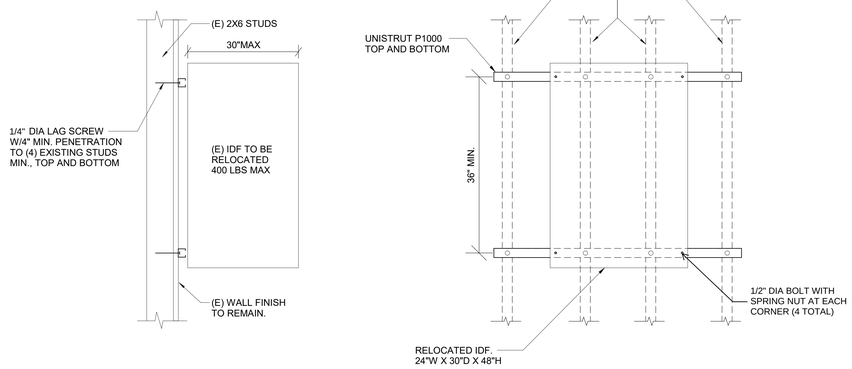
LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD
Power	1000 VA
Spare	23268 VA
Receptacle	2500 VA
HVAC Largest Motor	66384 VA

TOTALS

TOTAL CONNECTED LOAD: 93.15 kVA
TOTAL ESTIMATE DEMAND LOAD:
TOTAL CONNECTED CURENT: 258.56 A
TOTAL ESTIMATED DEMAND CURRENT:

CIRCUIT KEY NOTES: 1.PROVIDE "LOCK ON" DEVICE AT CIRCUIT BREAKER AND RED LABEL "FIRE ALARM".



1 IDF CABINET MOUNTING DETAIL WOOD STUDS
NO SCALE

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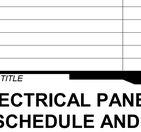


COMPTON COMMUNITY
COLLEGE DISTRICT

COMPTON COLLEGE
STRUCTURAL UPGRADE
OF REMAINING PORTIONS
OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION

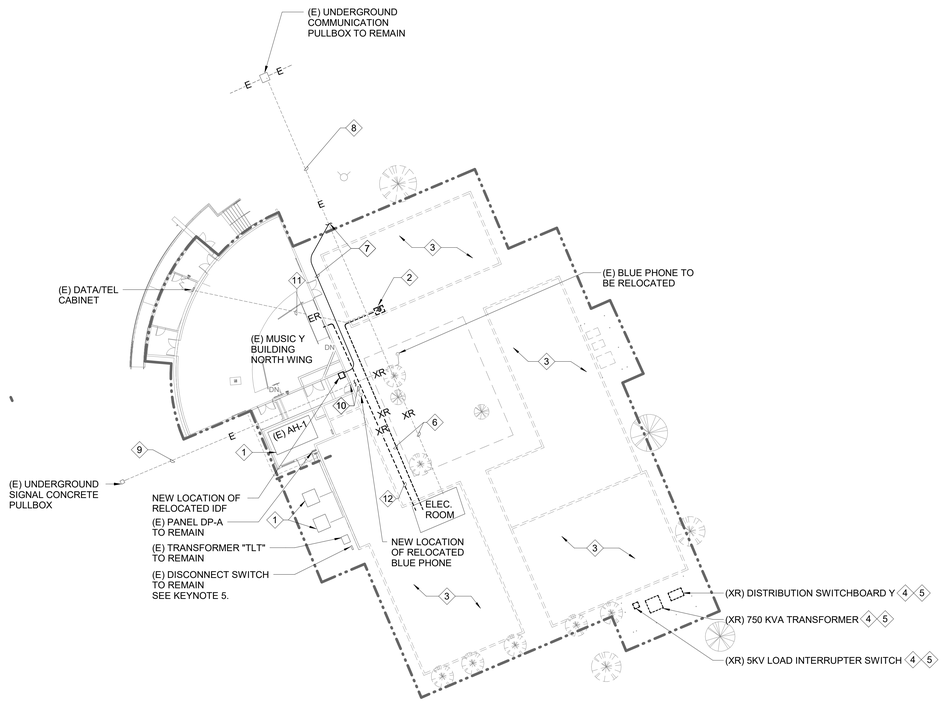
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
ELECTRICAL PANEL SCHEDULE AND DETAIL

SHEET NUMBER
E003

KEYNOTES

1. EXISTING AC UNIT TO REMAIN INCLUDING DISCONNECT SWITCH AND FEEDER CONDUIT UP TO SERVING PANEL TO REMAIN.
2. DISCONNECT AND REMOVE EXISTING IDF AND RELOCATE TO LITTLE THEATER BUILDING.
3. DEMOLISH EXISTING ELECTRICAL INSTALLATION IN THIS BUILDING SUCH AS PANELBOARDS, RECEPTACLES LIGHTS, AND LOW VOLTAGE SYSTEMS EQUIPMENT AND OUTLETS COMPLETE UP TO SERVING PANEL.
4. DEMOLISH EXISTING HIGH VOLTAGE LOAD INTERRUPTER SWITCH, 750KVA TRANSFORMER AND 1200A DISTRIBUTION SWITCHBOARD "Y". AND SHALL BE REPLACED WITH NEW. REFER TO "COMPTON COLLEGE VISUAL AND PERFORMING ARTS REPLACEMENT " PROJECT FOR NEW EQUIPMENT REPLACEMENT.
5. TO MAINTAIN POWER TO THE LITTLE THEATER (BUILDING Y), DISCONNECTION AND REMOVAL OF EXISTING EQUIPMENT SHALL ONLY BE DONE IF REPLACEMENT EQUIPMENT HAVE BEEN INSTALLED AND OPERATIONAL PER THE "COMPTON COLLEGE VISUAL AND PERFORMING ARTS REPLACEMENT" PROJECT DONE. REFER TO SITE DEMOLITION AND SITE RECONSTRUCTION PLANS FOR THAT PROJECT FOR REFERENCE AND FOR MORE INFORMATION.
6. PULL BACK EXISTING DATA AND/OR TELEPHONE CABLES INSIDE UNDERGROUND CONDUITS FEEDING EXISTING IDF OR BLUE PHONE TO BE RELOCATED UP TO EXISTING UNDERGROUND PULLBOX AND SHALL BE RE-ROUTED TO NEW IDF OR BLUE PHONE AS SHOWN. DEMOLISH CONDUITS AFTER CABLES REMOVAL.
7. INTERCEPT EXISTING CONDUITS (2) 2" AND (3) 3" (OR MATCH EXISTING CONDUIT SIZE AND QUANTITY) AND EXTEND TO NEW IDF LOCATION AS SHOWN. PULL-IN BACK EXISTING CABLES IN CONDUIT. SEE KEYNOTE #6.
8. EXISTING LOW VOLTAGE CONDUITS TO REMAIN. SEE KEYNOTE #6.
9. EXISTING 2" TELEPHONE CONDUITS TO REMAIN. SEE KEYNOTE #6.
10. INTERCEPT EXISTING 2" CONDUIT (OR MATCH EXISTING CONDUIT SIZE AND QUANTITY) AND EXTEND TO NEW BLUE PHONE LOCATION AS SHOWN. PULL-IN BACK EXISTING CABLES IN CONDUIT. SEE KEYNOTE #9.
11. DISCONNECT DATA/TEL CABLES FROM DATA CABINET TO EXISTING IDF TO BE RELOCATED AND SHALL BE RECONNECTED TO THE RELOCATED IDF. SEE KEYNOTE 5 & 6 ON E102.
12. DISCONNECT AND REMOVE EXISTING EXPOSED CONDUITS ON ROOF AT THIS AREA.



1 ELECTRICAL DEMOLITION SITE PLAN

1" = 20'-0"

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COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

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ISSUE DESCRIPTION

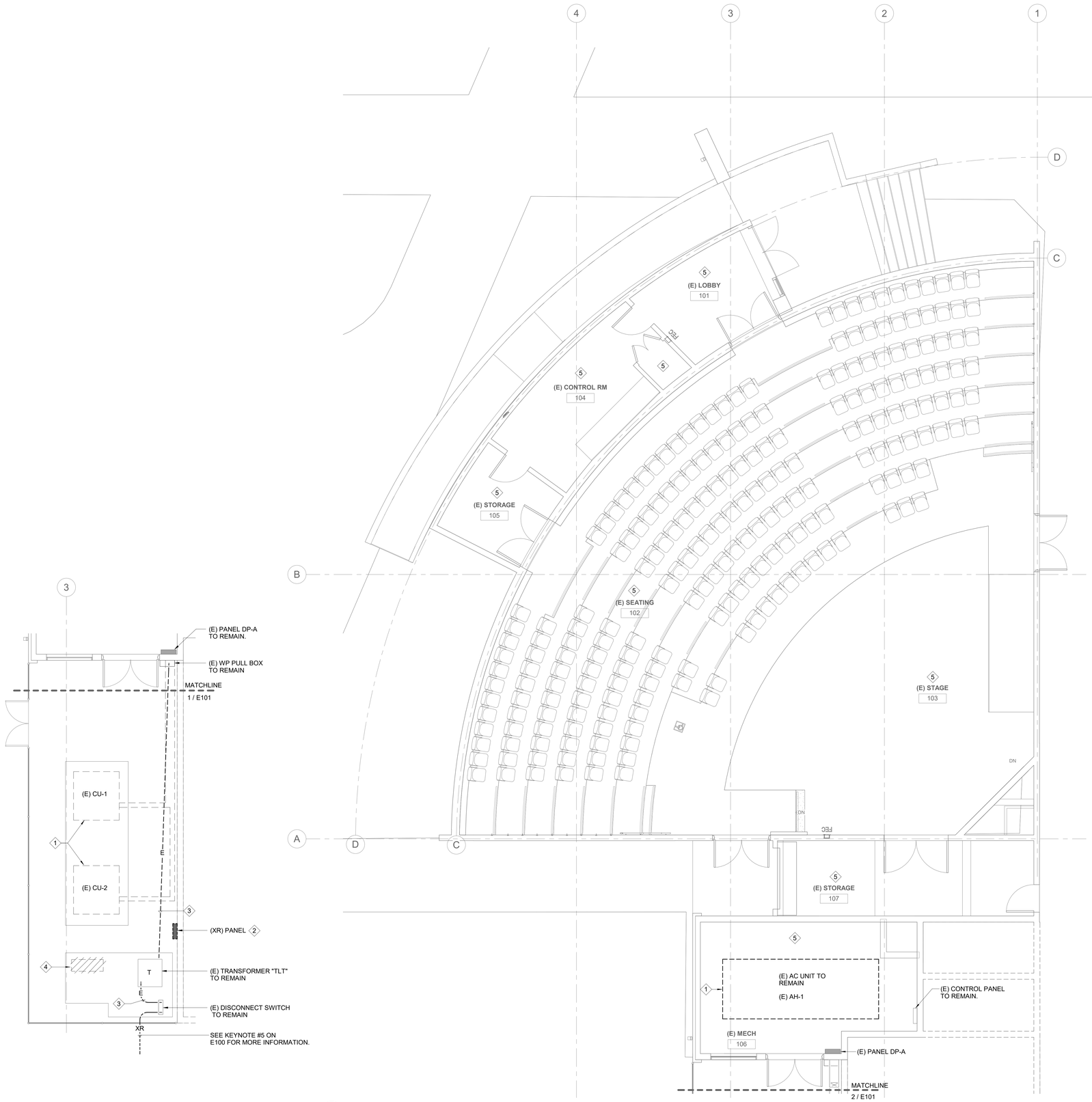
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
ELECTRICAL DEMOLITION SITE PLAN

SHEET NUMBER
E100

KEYNOTES

1. EXISTING AC UNIT TO REMAIN INCLUDING DISCONNECT SWITCH AND FEEDER CONDUIT UP TO SERVING PANEL TO REMAIN.
2. DISCONNECT AND REMOVED EXISTING PANEL INCLUDING ASSOCIATED CONDUITS AND WIRES UP TO AC LOAD OR SERVING PANEL.
3. EXISTING FEEDER UNDERGROUND FEEDER CONDUIT TO REMAIN. PROTECT IN PLACE DURING THE ENTIRE DURATION OF CONSTRUCTION.
4. DISCONNECT AND REMOVE EXISTING AC DISCONNECT AND FEEDER OF EXISTING AC UNIT TO BE REMOVED COMPLETE UP TO SERVING PANEL.
5. EXISTING ELECTRICAL INSTALLATION IN THIS ROOM OR AREA TO REMAIN. UNLESS OTHERWISE NOTED.



2 ELECTRICAL DEMOLITION YARD PLAN
SCALE: 1/4" = 1'-0"

1 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

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Compton College

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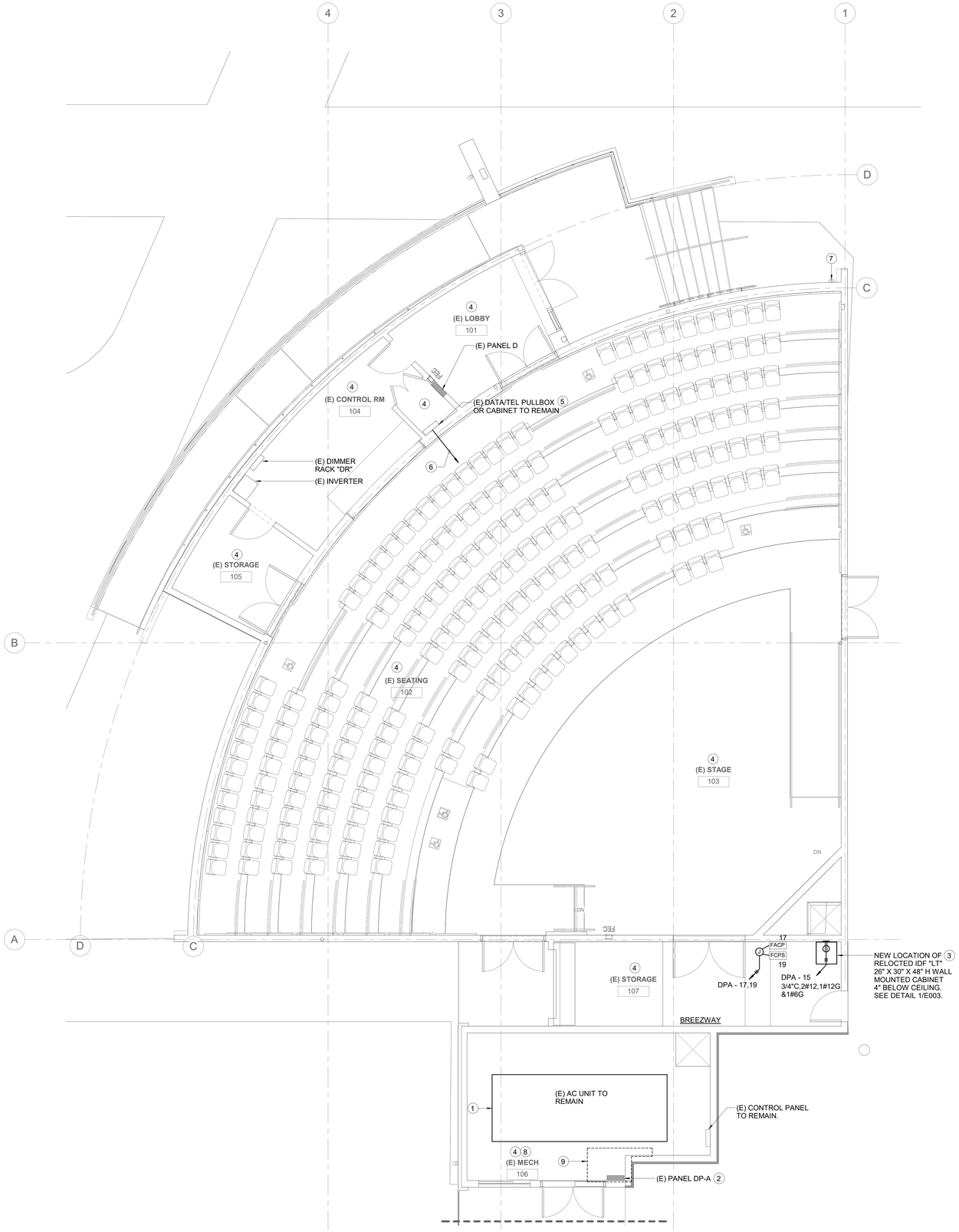
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
ELECTRICAL DEMOLITION FLOOR PLAN

SHEET NUMBER
E101



1 ELECTRICAL POWER AND SIGNAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

KEYNOTES

1. EXISTING AC UNIT TO REMAIN INCLUDING DISCONNECT SWITCH AND FEEDER CONDUIT UP TO SERVING PANEL TO REMAIN.
2. PROVIDE (3) 20A-1P CIRCUIT BREAKER AT EXISTING PANEL. NEW BREAKERS SHALL MATCH TYPE AND AIC RATING OF EXISTING BREAKERS.
3. BOND 1#6G TO IDF CABINET.
4. EXISTING POWER, LIGHTING AND LOW VOLTAGE INSTALLATION IN THIS ROOM TO REMAIN UNLESS OTHERWISE NOTED. PROTECT IN PLACE DURING THE ENTIRE PHASE OF CONSTRUCTION.
5. PULLBACK EXISTING DATA AND TEL CABLES FROM THIS CABINET TO THE EXISTING IDF CABINET TO BE RELOCATED. DELETE EXISTING CONDUITS. SEE NOTE 6.
6. PROVIDE (1) 2" & (1) 1" CONDUITS AND RE-INSTALL DATA AND TELEPHONE CABLES REMOVE FROM EXISTING IDF AND RE-ROUTE TO NEW IDF LOCATION.
7. PROTECT IN PLACE EXISTING CONDUITS DURING DEMOLITION AND CONSTRUCTION PHASE DUE TO STRUCTURAL WORK.
8. PROTECT IN PLACE ALL EXISTING CONDUITS, J-BOXES, LIGHTS, SMOKE DETECTORS, AND EQUIPMENT LOCATED AT CEILING OR WALL IN THIS ROOM DURING DEMOLITION AND CONSTRUCTION PHASE DUE TO STRUCTURAL WORK.
9. DISCONNECT AND REMOVE EXISTING CONDUITS AND BOXES ATTACHED TO EXISTING CEILING OR WALL TO BE RE-WORK IN THIS AREA DUE TO STRUCTURAL UPGRADE AND SHALL RE-INSTALL BACK AND ATTACHED TO NEW CEILING OR WALL AFTER NEW CEILING/WALL INSTALLATION.

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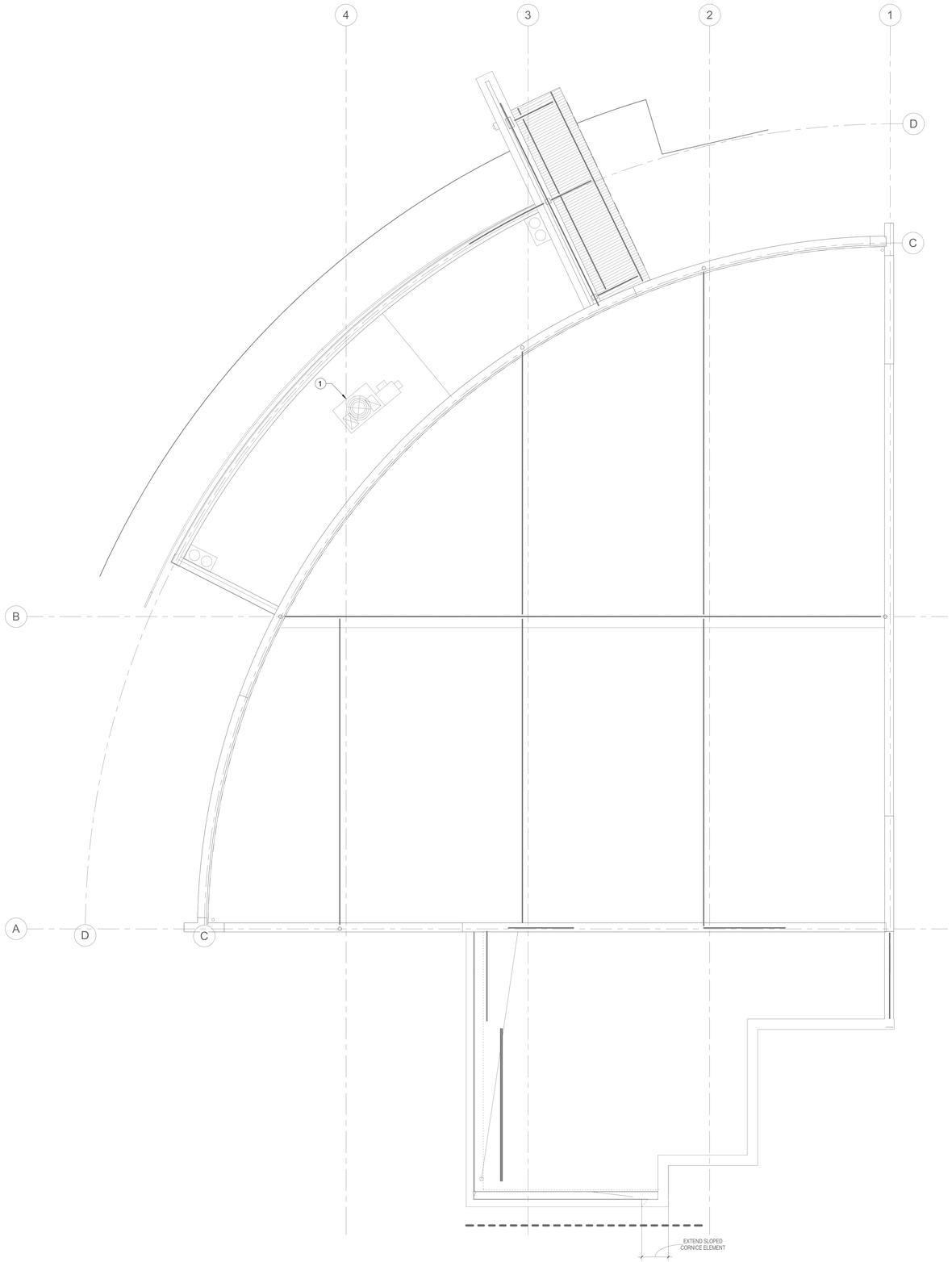
ISSUE DESCRIPTION		
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
ELECTRICAL POWER AND SIGNAL FLOOR PLAN

SHEET NUMBER
E102

KEYNOTES

1. EXISTING AC UNIT TO REMAIN INCLUDING DISCONNECT SWITCH AND FEEDER CONDUIT UP TO SERVING PANEL TO REMAIN.



1 ELECTRICAL ROOF PLAN
SCALE: 1/4" = 1'-0"

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ISSUE DESCRIPTION

1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
ELECTRICAL ROOF PLAN

SHEET NUMBER
E122

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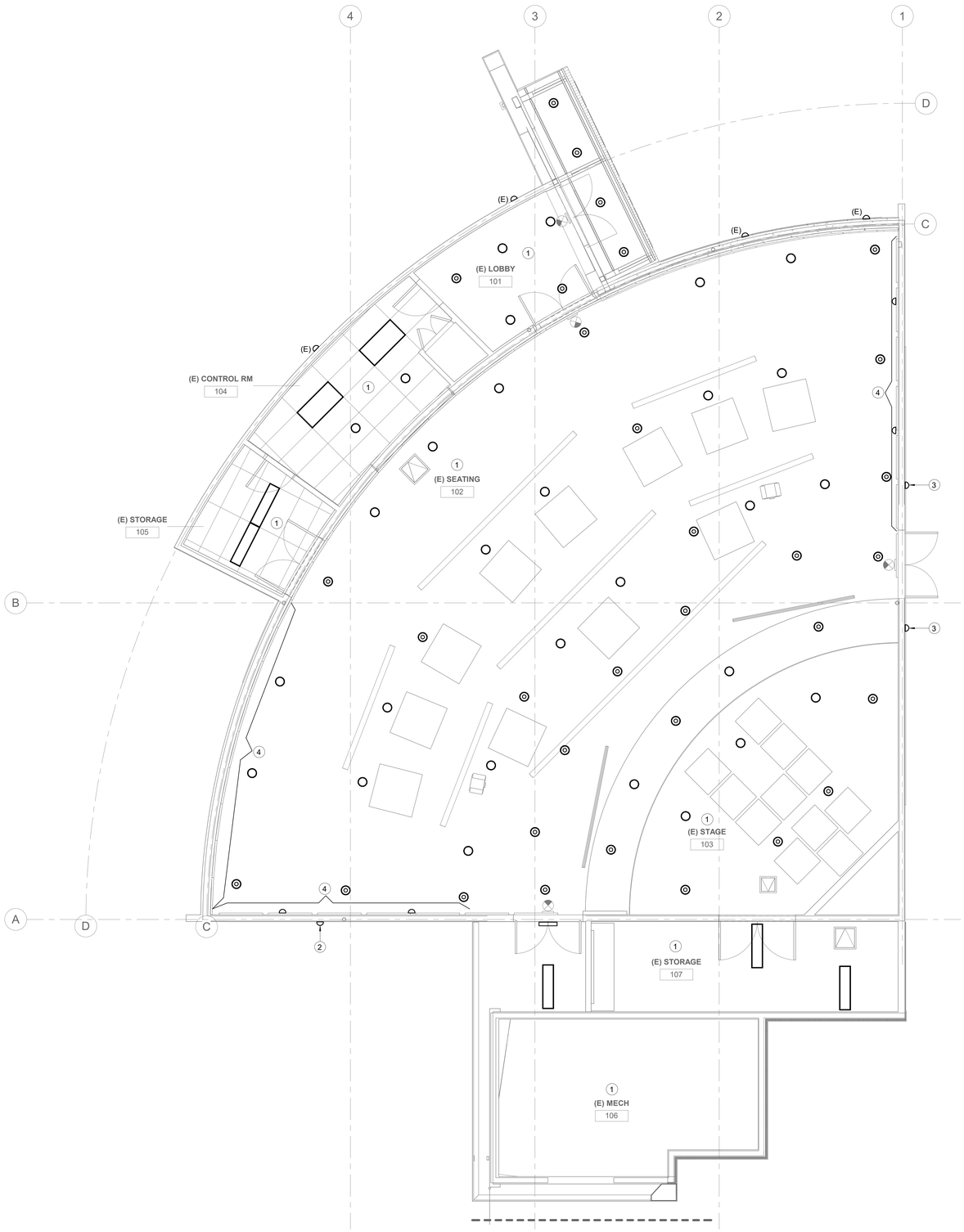
Received By PCM3 on 08/19/2024



1 ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

KEYNOTES

1. EXISTING LIGHTS IN THIS ROOM OR AREA TO REMAIN.UNLESS OTHERWISE NOTED. PROTECT IN PLACE DURING THE ENTIRE DURATION OF CONSTRUCTION.
2. REMOVE (E) LIGHT FIXTURE. PROTECT AND REINSTALL AFTER STRUCTURAL UPGRADE AND PLASTER WORK IS COMPLETED.
3. EXISTING LIGHT FIXTURE TO REMAIN. PROTECT IN PLACE DURING THE ENTIRE DURATION OF CONSTRUCTION.
4. CONTRACTOR TO PROTECT IN PLACE ALL EXISTING ELECTRICAL CONDUITS AND J-BOXES FOR POWER AND SIGNAL SYSTEMS AT INTERIOR WALLS DURING REMOVAL OF EXTERIOR PLASTER AND STRUCTURAL UPGRADE OF WALLS. INCLUDE ADDITIONAL SUPPORT OF CONDUITS AND BOXES AFFECTED AS REQUIRED.

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SHEET TITLE
ELECTRICAL LIGHTING PLAN

SHEET NUMBER
E202

GENERAL NOTES

1. FIRE ALARM SYSTEM SHALL COMPLY WITH APPLICABLE CODES PROVIDED.
2. ALL WIRING, INITIATING DEVICE AND PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION (FACP SHALL SUPERVISE THE ANNUNCIATOR PANEL, ALL CIRCUITS AND INITIATING DEVICES).
3. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR AND TERMINATE.
4. POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.
5. ALL WIRING SHALL BE IN CONDUIT. CONDUIT FILL SHALL BE PER TABLE C1 OF CALIFORNIA ELECT. CODE.
6. ALL TERMINATIONS IN FIRE ALARM PULL BOXES AND TERMINAL CABINETS SHALL BE ON TERMINAL BLOCKS.
7. THE FACP IS NOT TO BE USED AS A TERMINAL CABINET.
8. MINIMUM CONDUIT SIZE AT RISER SHALL BE 3/4" U.O.N. CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS (I.E. NO. OF BENDS ETC.) BUT SHALL NOT BE SMALLER THAN 3/4".
9. ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS, SPLICES, AND GROUNDS.
10. ALL WIRING MUST ENTER AT THE TOP OF THE FIRE ALARM CONTROL PANEL.
11. FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS INDICATE.
12. CONDUIT AND JUNCTION\BACK BOXES ARE TO BE USED FOR FIRE ALARM WIRING ONLY. NO UNRELATED WIRING ALLOWED.
13. PENETRATIONS TO FIRE-RATED ASSEMBLIES SHALL BE PROTECTED BY UL APPROVED THROUGH-PENETRATION FIRE-STOP SYSTEM. "THROUGH FIRE STOPPING FOR ALL FIRE RATED WALLS, FLOOR AND ASSEMBLIES SHALL HAVE AN "F" OR "T" RATING PER THE CALIFORNIA BUILDING CODE AND STANDARDS. ALL FIRE STOPPING SHALL COMPLY WITH AN APPROVED "F" AND "T" METHOD. THIS WILL BE FIELD VERIFIED," (TITLE 24, PART 2, SEC. 713).
14. AUDIO VISUAL DEVICES SHALL BE INSTALLED PER TITLE 24 SECTION 7204 REQUIREMENT.
15. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 STANDARDS, AMERICAN DISABILITY ACT (ADA) REQUIREMENTS.
16. FIRE ALARM CONTROL PANEL SHALL BE ACCESSIBLE ONLY TO FIRE DEPT. PERSONNEL & AUTHORIZED MAINTENANCE PERSONNEL & SHALL BE MARKED "FIRE ALARM CONTROL PANEL".
17. ANY DEVIATION FROM THESE PLANS NECESSARY DUE TO FIELD CONDITIONS MUST BE APPROVED BY THE OAR AND FIRE ALARM SYSTEM ENGINEER.
18. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
19. SUPERVISORY SIGNAL SHALL BE DISTINCT FROM OTHER SIGNALS(TROUBLE, ALARM) VIA VISUAL (LED) ANNUNCIATION AT FIRE ALARM CONTROL PANEL.
20. AUDIBLE NOTIFICATION APPLIANCES INTENDED FOR OPERATION IN THE PUBLIC MODE SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 120DBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. (PER CFC 907.6.2.1.1 5DBA ABOVE AMBIENT NOISE LEVEL.)
21. "ALL EQUIPMENT, I.E. AUTOMATIC DETECTION DEVICES, MANUAL PULL STATIONS, ETC., SHALL BE LOCATED IN ACCORDANCE WITH THEIR LISTINGS AND APPLICABLE PROVISIONS OF THE TITLE 24, PARTS 2,3,4 & 9" (ALL EXTERIOR DEVICES SHALL BE LISTED FOR OUTDOOR USE), (TITLE 19, CHAPTER 1.5, ARTICLE 1, SEC. 200).
22. AUDIO DEVICES SHALL BE CODED "TEMP 3". AUDIBLE SENSORS SHALL BE USED TO ASSESS MAX/MIN LEVELS ACHIEVED TROUGH OUT.
23. WIRING WITHIN EQUIPMENT AND TERMINAL CABINETS SHALL BE INSTALLED TO CONFORM TO STANDARD ENGINEERING PRACTICE, AND SHALL BE TERMINATED ON TERMINAL BLOCKS HAVING TERMINALS FOR REQUIRED CONNECTIONS. WIRING SHALL BE CABLED, LACED, AND SECURELY FASTENED IN PLACE SO THAT NO WEIGHT IS IMPOSED ON EQUIPMENT OR TERMINALS.
24. INSTALL REQUIRED TERMINAL BLOCKS WITHIN TERMINAL CABINETS. TERMINAL BLOCKS SHALL BE INSTALLED ON INSIDE BACK OF CABINETS ONLY, NOT ON SIDE. INCOMING WIRING SHALL BE TERMINATED ON THE LEFT SIDE OF TERMINAL BLOCKS, OUTGOING WIRING SHALL BE TERMINATED ON THE RIGHT SIDE OF THE TERMINAL BLOCKS.
25. CONDUCTORS SHALL BE COLOR-CODED AND TAGGED WITH CODE MARKERS AT TERMINAL CABINETS, JUNCTION BOXES, PULL BOXES AND EQUIPMENT. A WIRE INDEX SHALL BE TYPED AND INSTALLED ON TERMINAL CABINET DOORS. INDEX SHALL BE COVERED WITH REMOVABLE CLEAR PLASTIC COVERS. WIRING SHALL BE IDENTIFIED AS TO BUILDING AND LOCATION OF DEVICES IN THE INDEX.
26. WIRING WITHIN EQUIPMENT AND TERMINAL CABINETS SHALL BE CAREFULLY STRAPPED, AND SHALL BE FORMED IN RECTANGULAR CONFIGURATION. WIRES SHALL BE PROPERLY NUMBERED IN NUMERICAL ORDER AND SHALL MAINTAIN SAME NUMBER THROUGHOUT THE PROJECT SITE.
27. COMPLETE INSTALLATION SHALL COMPLY WITH LOCAL BUILDING CODES AND APPLICABLE PROVISIONS OF THE CALIFORNIA ELECTRICAL CODE.
28. END-OF-LINE RESISTORS SHOULD ALWAYS BE MOUNTED AT THE LAST FIRE ALARM DEVICE. FIRE ALARM DEVICES THAT HAVE END-OF-LINE RESISTORS INSTALLED IN THEM SHOULD BE SO MARKED AND THIS MARKING SHOULD BE PERFORMED IN SUCH A MANNER THAT IT IS EASILY SEEN BY MAINTENANCE PERSONNEL.
29. PRIOR TO RELEASING THE FIRE ALARM CONTRACTOR, A FIRE ALARM SYSTEM PERFORMANCE TEST SHOULD BE PERFORMED BY THE FLSTG (FIRE LIFE SYSTEMS TESTING GROUP) AND A FIRE ALARM PERFORMANCE TEST DOCUMENT GENERATED.
30. WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETED, THE FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE SHOULD BE UPDATED TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
31. "LABEL DESCRIPTIONS" INDICATING DEVICE TYPE AND LOCATION THAT ARE DISPLAYED ON THE FIRE ALARM LCD DISPLAY SHOULD BE CLEAR AND EASILY UNDERSTOOD BY THE OFFICE STAFF'S. DESCRIPTIONS SHOULD BE BASED ON THE STAFF'S UNDERSTANDING OF THE SITE AND NOT ON INFORMATION TAKEN FROM PRINTS.
32. ALL FIRE ALARM CONDUCTORS SHOULD BE IN THEIR OWN CONDUITS, PULL BOXES AND UNDERGROUND BOXES. PROVIDE PARTITIONS OR SOME MEANS OF PHYSICAL AND ELECTRICAL SEPARATION OF FIRE ALARM CONDUCTORS WHERE REQUIRED.
33. ALARM, TROUBLE AND SUPERVISORY SIGNALS FROM INTELLIGENT REPORTING DEVICES SHALL BE ENCODED ONTO NFPA STYLE 4 (CLASS B) SIGNALING LINE CIRCUITS (SLC). INITIATING DEVICE CIRCUITS (IDC) SHALL BE WIRED NFPA STYLE B (CLASS B). NOTIFICATION APPLIANCE CIRCUIT (NAC) SHALL BE WIRED NFPA STYLE Y (CLASS B).
34. CONTRACTOR SHALL PROVIDE ALL REQUIRED SIGNAGE, AND LABELS TO ALL FACP, FIRE ALARM PULL BOXES, TERMINAL CABINETS, FLOW/TAMPER SWITCHES, BELLS, CLASSROOM DOORS WHERE MISSING, AND ANY OTHER EQUIPMENT AS REQUIRED BY LAFD AND NFPA-72 REQUIREMENTS.
35. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, OR WITH OAR TO COORDINATE FOR INTERCONNECTION OF THE FIRE ALARM SYSTEM WITH OTHER BUILDINGS, SYSTEMS OR EQUIPMENT. ONCE ALL FUNCTIONS INDICATED IN THE FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS HAVE BEEN VERIFIED THROUGH TESTING BY THE INSTALLING CONTRACTOR, AN ACCEPTANCE TEST MUST BE PERFORMED IN THE PRESENCE OF THE AUTHORITIES HAVING JURISDICTION OWNER AUTHORIZED REPRESENTATIVE (OAR), FIRE MARSHALL, AND DSA INSPECTOR. THE ACCEPTANCE TEST MUST SUCCESSFULLY DEMONSTRATE ALL FUNCTIONS REQUIRED IN THE CONTRACT. CONTRACTOR TO SUBMIT STATEMENT OF COMPLIANCE WHEN/WITH REQUEST FOR FIRE ALARM PERFORMANCE TEST.
36. PANELS MUST NOT BE HIGHER THAN SIX FEET AND SYSTEM STATUS DISPLAYS ARE TO BE AT EYE LEVEL(+60"AFF). NO EQUIPMENT OR RACEWAY MAY BE LOCATED UNDER A CABINET CONTAINING BATTERIES.
37. HEAT DETECTORS INSTALLED ABOVE SUSPENDED CEILINGS SHALL HAVE THEIR LOCATIONS MARKED BELOW THE CEILING AND BE EASILY ACCESSIBLE.
38. COMPLY WITH CFC 901.7 FOR FIRE PROTECTION SYSTEM OUT OF SERVICE. PROVIDE FIRE WATCH AS REQUIRED PER DSA IR F-2.

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF TUBING

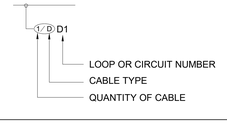
CONDUCTORS		Metric Designator (Trade Size)						
TYPE	CONDUCTOR SIZE (AWG/kcmil)	16 (1/2)	21 (3/4)	27 (1)	35 (1 1/4)	41 (1 1/2)	53 (2)
THHN, THWN, THWN-2	14	12	22	35	61	84	138
	12	9	16	26	45	61	101
	10	5	10	16	28	38	63
	8	3	6	9	16	22	36

V2400 RACEWAY WIRE FILL CAPACITIES FOR POWER				
			NUMBER OF CONDUCTORS (40% FILL)	
WIRE SIZE THHN/THWN	O.D. Inches	(mm)	WITHOUT DEVICES	WITH 2427 RECEPTACLE
14 AWG	0.111	(2.8)	57	12
12 AWG	0.130	(3.3)	41	9
10 AWG	0.164	(4.2)	26	-

WIRE SCHEDULE

CABLE TYPE	WIRE/CABLE DESCRIPTION	CIRCUIT TYPE
A	2#12 WEST PENN 60994B	AUDIBLE
V	2#12 WEST PENN 60994B	VISUAL
C	2#12 THHN/XHHW	INDOOR FAPS
C1	2#16 WEST PENN AQ225	OUTDOOR FAPS
D	2#16 WEST PENN D990	INDOOR DATA LOOP
D1	2#16 WEST PENN AQ225	OUTDOOR DATA LOOP
N	2#18 WEST PENN D980	INDOOR NETWORK
N1	2#18 WEST PENN AQ224	OUTDOOR NETWORK
M	2#18 WEST PENN D975	ANNUNCIATOR
P	2#12 THHN/THWN	POWER

CABLE CALLOUT NOTES



SCOPE OF WORK

RELOCATE EXISTING FIRE ALARM CONTROL PANEL TO CORRIDOR IN BUILDING Y.

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	C.S.F.M.	MOUNTING	REMARKS
FACP	(E) MAIN FIRE ALARM CONTROL PANEL W/ DSA #03-115541 EMERGENCY VOICE/ ALARM COMMUNICATION	SIMPLEX	4100ES	7165-0026:0251	SURFACE	PROVIDE TRANSIENT SUPPRESSORS FOR CONTROL PANEL. PROVIDE 640 CHARACTER DISPLAY MOUNTED ON UNIT.
S	(E) EXTERIOR SPEAKER	SIMPLEX	49SO-APPLW-O 49SOC-WRFIRE-O	7320-0026:0501	SURFACE WALL MTD.	OUTDOOR SURFACE MOUNT OUTLET BOXES PROVIDE SA-WBB BACK BOX SKIRT ON ALL

APPLICABLE CODES

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR):

PART 1 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2 2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R.
(2021 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS).
PART 3 2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R.
(2023 NATIONAL ELECTRIC CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
PART 4 2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R.
(2021 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO).
PART 5 2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R.
(2021 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO).
PART 6 2022 CALIFORNIA ENERGY CODE (CEC), TITLE 24 C.C.R.
PART 9 2022 CALIFORNIA FIRE CODE (CFC), TITLE 24
(2021 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL).
PART 10 2022 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R.
(2021 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS).
PART 11 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.
PART 12 2022 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATOR AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2019 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2024 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2024 EDITION
NFPA 20	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2022 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2023 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2022EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2022 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2022 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2022 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2023 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	2023 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

* ALL PARTS OF THE 2022 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2022 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2022 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 8, 2022 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 8, 2022.

DEVICE DESIGNATION

INITIATING	NOTIFICATION
D3- 03	A1 - 2
DEVICE ADDRESS	V1 - 2
LOOP NUMBER	DEVICE NUMBER
	NOTIFICATION CIRCUIT

ELECTRICAL SYMBOL LIST

(NOT ALL SYMBOLS ARE USED ON PLANS)

J	JUNCTION BOX: CEILING MOUNTED, WALL MOUNTED OR IN ACCESSIBLE CEILING SPACE
	BRANCH CIRCUIT FLUSH PANELBOARD
	CONDUIT: UNDERGROUND OR BELOW GRADE. SIZE & NUMBER OF CONDUCTORS AS NOTED.
	CONDUIT: CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS; EXPOSED IN UNFINISHED AREA, 3/4"C. U.O.N.
//	3/4"C, 2#12 & 1#12 GROUND U.O.N.
1 FA101	SEE DIAGRAM 1, SHEET FA101

FIRE ALARM SHEET INDEX

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

DEVICE / ACTION	Manual Pull Stations	Area Smoke Detectors	Area Heat Detectors	Sprinkler Water Flow	Sprinkler Bell Tamper Switch	Power Failure	Fire Alarm AC Power Failure	Fire Alarm Low Battery System	Open Circuit	Fault Ground	Short Circuit Application Notification	Combination CO/Smoke Detectors		Elevator Machine Room Smoke Detector	Elevator Lobby Smoke Detector	Elevator Machine Room Heat Detector	Hoistway Heat Detector	Notes
Annunciate alarm at FACP and Remote Annunciator	X	X	X	X									X	X	X	X	X	
Annunciate supervisory condition at FACP and Remote Annunciator					X							X						
Annunciate trouble at FACP and Remote Annunciator	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	[1]
Activate Audible/Visual Signal Throughout School (Alarm)	X	X	X	X									X	X	X	X	X	
Contact Central Station (UDACT)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Mute Local Public Address System	X	X	X	X									X	X	X	X	X	
Disable Passing Signals	X	X	X	X									X					
Shut down Air Handling Equipment	X	X	X	X								X	X	X	X	X	X	[2]
Close Smoke/Fire Dampers	X	X	X									X	X	X	X	X	X	[3]
Close Smoke and Fire Doors				X									X					
Turn on general house lighting	X	X	X										X					
Elevator Power Shunt Trip																X	X	
Elevator Recall														X	X			
Sound Sprinkler Bell				X														
Code approved local alarm tone at affected area(s) only												X						

NOTES:
[1] Indicate trouble on wiring fault or device as required.
[2] Shut down only air handler equipment in the building or area where alarm condition occurs.
[3] Close only smoke and fire dampers in the building or area where alarm condition occurs.

NOTES

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 A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test technician-certification-provider-program/acceptance.

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.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123908 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

Struere
ADVANCED ARCHITECTURE
3324 GRAND VIEW
LOS ANGELES, CALIFORNIA 90066
TELEPHONE (310) 748-7649
E-MAIL HRAZTAN@STRUERE.COM
WWW.STRUERE.COM

Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
WWW.BUDLONG.COM
Job No: 21-250.C1

Compton College

COMPTON COMMUNITY COLLEGE DISTRICT

COMPTON COLLEGE STRUCTURAL UPGRADE OF REMAINING PORTIONS OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION

1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
FIRE ALARM FRONT SHEET

SHEET NUMBER
FA001

(E) FACP BATTERY CALCULATION (LEVEL 1)

Qty.	Description	@Sup.	Sup.Current	@Alarm	Alarm Current
1	4100-5451 (IDNAC Card)	0.124000	0.124000	0.23000	0.230000
1	4100-9621 (Basic Audio With Microphone - Digital)	0.087500	0.087500	0.36300	0.363000
1	4100-1331 (Digital 100W AMP, 6NAC, 120VAC, 70V-C	0.085000	0.085000	3.80000	3.800000
1	4100-1242 (Message Expansion Board - 32 Minutes)	0.002000	0.002000	0.01700	0.017000
1	4100-6078 (Network IF Card, Modular)	0.046000	0.046000	0.04600	0.046000
2	4100-6056 (Network Media Card Wired)	0.055000	0.110000	0.05500	0.110000
1	4100-1282 (8 S/W, 16Red/Yel LED Module)	0.000000	0.000000	0.02400	0.024000
1	4100-6080 (Serial DACT Side Mount)	0.030000	0.030000	0.04000	0.040000
1	4100-1288 (64/64 LED/Switch Controller)	0.020000	0.020000	0.21200	0.212000
1	4100-1253 (1.5 Channel Audio Operator Interface)	0.000000	0.000000	0.02400	0.024000
	Addressable Devices				
0	4098-9714 (Smoke Detector)	0.000360	0.000000	0.00650	0.000000
0	4098-9733 (Heat Detector)	0.000300	0.000000	0.00650	0.000000
0	4098-9734 (Heat Detector)	0.000300	0.000000	0.00650	0.000000
0	4090-9001 (Monitor Module)	0.000350	0.000000	0.00510	0.000000
0	4098-9771 (CO & Smoke Detector)	0.000360	0.000000	0.00650	0.000000
0	4090-9010 (Relay Module)	0.000230	0.000000	0.06000	0.000000
0	MR-100 (HVAC Control Relay)	0.015000	0.000000	0.00510	0.000000
0	MB-G10-24-R (Bell)	0.000100	0.000000	0.03100	0.000000
1	Maximum alarm draw for Addressable devices (SLC 1)			0.40000	0.400000
1	Maximum alarm draw for Addressable devices (SLC 2)			0.40000	0.400000
5	EOLR-1	0.020000	0.100000	0.00000	0.000000
1	EVAC #A1		0.000000	0.44900	0.449000
1	EVAC #A2		0.000000	0.71000	0.710000
1	EVAC #A3		0.000000	0.78000	0.780000
1	EVAC #A4		0.000000	1.04400	1.044000
	EVAC				
	1. System				
	DVC Primary Console	0.272000	0.000000	0.44600	0.000000
	ECC-50W-25V/70V	0.100000	0.000000	0.23500	0.000000
	ECC-50W-25V/70V (As Backup)	0.100000	0.000000	0.00000	0.000000
	ECC-CE6 Circuit Expander	0.200000	0.000000	0.18900	0.000000
	ECC-RTZM	0.055000	0.000000	0.06000	0.000000
	CFFT-1 Firefighter Telephone	0.120000	0.000000	0.23000	0.000000
	2. Operator Interface Devices				
	ECC-LOC Local Operator Console	0.085000	0.000000	0.10000	0.000000
	ECC-RM Remote Microphone	0.050000	0.000000	0.06400	0.000000
	ECC-RPU Remote Page Unit	0.050000	0.000000	0.06800	0.000000
	3. Additional Amplifiers				
	DAA-50	0.085000	0.000000	2.27000	0.000000
	DAA-75	0.000000	0.000000	0.00000	0.000000
	4. Speakers				
	1/4 Watt	0.000000	0.000000	0.08100	0.000000
	1/2 Watt	0.000000	0.000000	0.08500	0.000000
	1 Watt	0.000000	0.000000	0.08800	0.000000
	2 Watt	0.000000	0.000000	0.09100	0.000000
	Custom Watt Description	0.000000	0.000000	0.00000	0.000000
	Total Watts	64.250000			
	5. Output Circuits				
	NAC Output	0.000000	0.000000	0.00000	0.000000
	Non-Resettable Output	0.000000	0.000000	0.00000	0.000000
	6. Additional Devices				
	Power Supervision Relays	0.025000	0.000000	0.02500	0.000000
	SP-SVC Volume Control	0.010000	0.000000	0.01000	0.000000
			0.000000		0.000000
		Total Sup.:	0.604500	Total Alarm:	8.649000
	Supervisory Current: Total Sup. X 24 (#hrs) =		14.508000	Amp/Hrs	
	Alarm Current X 15/60 (hrs of alarm) =		2.162250	Amp/Hrs	
	Battery Capacity Req'd =		16.670250	Amp/Hrs	
	Plus (+) 30% DERATING factor =		5.001075		
	Total Secondary Required =		21.671325		
	Batteries provided with charging system =		100.000	(2 PCS)	
	Available Spare =		78.329		

(E) "FAPS-1" BATTERY CALCULATION

Qty.	Description	@Sup.	Sup.Current	@Alarm	Alarm Current
1	Main PC Board	0.065	0.065	0.145	0.145
	Power Supervision Relays	0.025	0.000	0.025	0.000
	Auxiliary Current Draw				0.000
1	NAC / Output #V1			0.000	0.000
1	NAC / Output #V2			0.000	0.000
1	NAC / Output #V3			0.000	0.000
1	NAC / Output #V4			0.000	0.000
		Total Sup.:	0.065	Total Alarm:	0.145
	Supervisory Current: Total Sup. X 24 (#hrs) =		1.560	Amp/Hrs	
	Alarm Current X 15/60 (hrs of alarm) =		0.036	Amp/Hrs	
	Battery Capacity Req'd =		1.596	Amp/Hrs	
	Plus (+) 30% DERATING factor =		0.479		
	Total Secondary Required =		2.075		
	Batteries provided with charging system =		7.000	(2 PCS)	
	Available Spare =		4.925		

VOLTAGE DROP CALCULATIONS:

(Calculation: Length X Current X 21.6 (Voltage Drop factor) / (Circular Mils (copper) X 24 VDC) = Volts Dropped)

	Length	Load	CM	Volts Dropped	% VD @24VDC
Circuit V1		0	6530	0.000	0.00
FAPS-1					
LEVEL-1					

Qty.	Device	@Load	Load
	Strobe 15cd - Ceiling	0.076	0.000
	Strobe 30cd - Ceiling	0.128	0.000
	Strobe 75cd - Ceiling	0.242	0.000
	Strobe 95cd - Ceiling	0.328	0.000
	Strobe 15cd - Wall	0.064	0.000
	Strobe 30cd - Wall	0.098	0.000
	Strobe 75cd - Wall	0.187	0.000
	Strobe 110cd - Wall	0.253	0.000
	Speaker/Strobe 15cd - Ceiling	0.076	0.000
	Speaker/Strobe 30cd - Ceiling	0.128	0.000
	Speaker/Strobe 75cd - Ceiling	0.242	0.000
	Speaker/Strobe 95cd - Ceiling	0.328	0.000
	Speaker/Strobe 15cd - Wall	0.064	0.000
	Speaker/Strobe 30cd - Wall	0.098	0.000
	Speaker/Strobe 75cd - Wall	0.187	0.000
	Speaker/Strobe 110cd - Wall	0.253	0.000
			0.000
	Total Circuit Load:		0.000

	Length	Load	CM	Volts Dropped	% VD @24VDC
Circuit V2		0	6530	0.000	0.00
FAPS-1					
LEVEL-1					

Qty.	Device	@Load	Load
	Strobe 15cd - Ceiling	0.076	0.000
	Strobe 30cd - Ceiling	0.128	0.000
	Strobe 75cd - Ceiling	0.242	0.000
	Strobe 95cd - Ceiling	0.328	0.000
	Strobe 15cd - Wall	0.064	0.000
	Strobe 30cd - Wall	0.098	0.000
	Strobe 75cd - Wall	0.187	0.000
	Strobe 110cd - Wall	0.253	0.000
	Speaker/Strobe 15cd - Ceiling	0.076	0.000
	Speaker/Strobe 30cd - Ceiling	0.128	0.000
	Speaker/Strobe 75cd - Ceiling	0.242	0.000
	Speaker/Strobe 95cd - Ceiling	0.328	0.000
	Speaker/Strobe 15cd - Wall	0.064	0.000
	Speaker/Strobe 30cd - Wall	0.098	0.000
	Speaker/Strobe 75cd - Wall	0.187	0.000
	Speaker/Strobe 110cd - Wall	0.253	0.000
			0.000
	Total Circuit Load:		0.000

	Length	Load	CM	Volts Dropped	% VD @24VDC
Circuit V3		0	6530	0.000	0.00
FAPS-1					
LEVEL-1					

Qty.	Device	@Load	Load
	Strobe 15cd - Ceiling	0.076	0.000
	Strobe 30cd - Ceiling	0.128	0.000
	Strobe 75cd - Ceiling	0.242	0.000
	Strobe 95cd - Ceiling	0.328	0.000
	Strobe 15cd - Wall	0.064	0.000
	Strobe 30cd - Wall	0.098	0.000
	Strobe 75cd - Wall	0.187	0.000
	Strobe 110cd - Wall	0.253	0.000
	Speaker/Strobe 15cd - Ceiling	0.076	0.000
	Speaker/Strobe 30cd - Ceiling	0.128	0.000
	Speaker/Strobe 75cd - Ceiling	0.242	0.000
	Speaker/Strobe 95cd - Ceiling	0.328	0.000
	Speaker/Strobe 15cd - Wall	0.064	0.000
	Speaker/Strobe 30cd - Wall	0.098	0.000
	Speaker/Strobe 75cd - Wall	0.187	0.000
	Speaker/Strobe 110cd - Wall	0.253	0.000
			0.000
	Total Circuit Load:		0.000

	Length	Load	CM	Volts Dropped	% VD @24VDC
Circuit V4		0	6530	0.000	0.00
FAPS-1					
LEVEL-1					

Qty.	Device	@Load	Load
	Strobe 15cd - Ceiling	0.076	0.000
	Strobe 30cd - Ceiling	0.128	0.000
	Strobe 75cd - Ceiling	0.242	0.000
	Strobe 95cd - Ceiling	0.328	0.000
	Strobe 15cd - Wall	0.064	0.000
	Strobe 30cd - Wall	0.098	0.000
	Strobe 75cd - Wall	0.187	0.000
	Strobe 110cd - Wall	0.253	0.000
	Speaker/Strobe 15cd - Ceiling	0.076	0.000
	Speaker/Strobe 30cd - Ceiling	0.128	0.000
	Speaker/Strobe 75cd - Ceiling	0.242	0.000
	Speaker/Strobe 95cd - Ceiling	0.328	0.000
	Speaker/Strobe 15cd - Wall	0.064	0.000
	Speaker/Strobe 30cd - Wall	0.098	0.000
	Speaker/Strobe 75cd - Wall	0.187	0.000
	Speaker/Strobe 110cd - Wall	0.253	0.000
			0.000
	Total Circuit Load:		0.000

WORST CASE VOLTAGE DROP% CALCULATIONS

Panel		**FACP (LEVEL-1)**		**Wire Gauge**		**16**	
Circuit No.		**A1**		**Area Cir.Mil**		**2580**	
System Voltage		**70**		**DC resistance ohm/kFT**		**4.99**	
Distance in Feet							
						Alarm	**Total**
Model Number		**Description**			**QTY**	**Current**	**Current**
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1/4W)				0.0810	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1/2W)				0.0850	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1W)				0.0880	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (2W)				0.0910	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1/4W)				0.0810	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1/2W)				0.0850	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1W)				0.0880	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (2W)				0.0910	0.000
						CIRCUIT TOTAL CURRENT	**0.0000**
RESISTANCE		OPERATING		VOLTAGE			**%VOLTAGE**
(ohms)		VOLTS		DROP			**DROP**
0		**70.00**		**0.000**			**0.00%**
NOTE: % VOLTAGE DROP SHALL NOT EXCEED 10%							
Resistance =	(2X)Distance in feet x Wire Resistance in ohms)/(1,000)						
Dropped Voltage=	(Current x Resistance)						
% Voltage Drop=	(Dropped Voltage/System Volt)						

WORST CASE VOLTAGE DROP% CALCULATIONS

Panel		**FACP (LEVEL-1)**		**Wire Gauge**		**16**	
Circuit No.		**A2**		**Area Cir.Mil**		**2580**	
System Voltage		**70**		**DC resistance ohm/kFT**		**4.99**	
Distance in Feet							
						Alarm	**Total**
Model Number		**Description**			**QTY**	**Current**	**Current**
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1/4W)				0.0810	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1/2W)				0.0850	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1W)				0.0880	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (2W)				0.0910	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1/4W)				0.0810	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1/2W)				0.0850	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1W)				0.0880	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (2W)				0.0910	0.000
						CIRCUIT TOTAL CURRENT	**0.0000**
RESISTANCE		OPERATING		VOLTAGE			**%VOLTAGE**
(ohms)		VOLTS		DROP			**DROP**
0		**70.00**		**0.000**			**0.00%**
NOTE: % VOLTAGE DROP SHALL NOT EXCEED 10%							
Resistance =	(2X)Distance in feet x Wire Resistance in ohms)/(1,000)						
Dropped Voltage=	(Current x Resistance)						
% Voltage Drop=	(Dropped Voltage/System Volt)						

WORST CASE VOLTAGE DROP% CALCULATIONS

Panel		**FACP (LEVEL-1)**		**Wire Gauge**		**16**	
Circuit No.		**A3**		**Area Cir.Mil**		**2580**	
System Voltage		**70**		**DC resistance ohm/kFT**		**4.99**	
Distance in Feet							
						Alarm	**Total**
Model Number		**Description**			**QTY**	**Current**	**Current**
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1/4W)				0.0810	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1/2W)				0.0850	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1W)				0.0880	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (2W)				0.0910	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1/4W)				0.0810	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1/2W)				0.0850	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1W)				0.0880	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (2W)				0.0910	0.000
						CIRCUIT TOTAL CURRENT	**0.0000**
RESISTANCE		OPERATING		VOLTAGE			**%VOLTAGE**
(ohms)		VOLTS		DROP			**DROP**
0		**70.00**		**0.000**			**0.00%**
NOTE: % VOLTAGE DROP SHALL NOT EXCEED 10%							
Resistance =	(2X)Distance in feet x Wire Resistance in ohms)/(1,000)						
Dropped Voltage=	(Current x Resistance)						
% Voltage Drop=	(Dropped Voltage/System Volt)						

WORST CASE VOLTAGE DROP% CALCULATIONS

Panel		**FACP (LEVEL-1)**		**Wire Gauge**		**16**	
Circuit No.		**A4**		**Area Cir.Mil**		**2580**	
System Voltage		**70**		**DC resistance ohm/kFT**		**4.99**	
Distance in Feet							
						Alarm	**Total**
Model Number		**Description**			**QTY**	**Current**	**Current**
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1/4W)				0.0810	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1/2W)				0.0850	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (1W)				0.0880	0.000
SIMPLEX	49SV-APPLW	INTERIOR SPEAKER (2W)				0.0910	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1/4W)				0.0810	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1/2W)				0.0850	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (1W)				0.0880	0.000
SIMPLEX	49SO-APPLW-O	EXTERIOR SPEAKER (2W)				0.0910	0.000
						CIRCUIT TOTAL CURRENT	**0.0000**
RESISTANCE		OPERATING		VOLTAGE			**%VOLTAGE**
(ohms)		VOLTS		DROP			**DROP**
0		**70.00**		**0.000**			**0.00%**
NOTE: % VOLTAGE DROP SHALL NOT EXCEED 10%							
Resistance =	(2X)Distance in feet x Wire Resistance in ohms)/(1,000)						
Dropped Voltage=	(Current x Resistance)						
% Voltage Drop=	(Dropped Voltage/System Volt)						

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123908 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

Structure
ADVANCED ARCHITECTURE

3324 GRAND VIEW
LOS ANGELES, CALIFORNIA 90066

TELEPHONE (310) 748-7649
E-MAIL HRAZTAN@STRUERE.COM
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Glendale|Downtown LA|Fremont|Camarillo
WWW.BUDLONG.COM
Job No: 21-250.C1

REGISTERED PROFESSIONAL ENGINEER
HAMAN H. CHRIZTAN
No. E 22864
CIVIL
STATE OF CALIFORNIA

Compton College

COMPTON COMMUNITY
COLLEGE DISTRICT

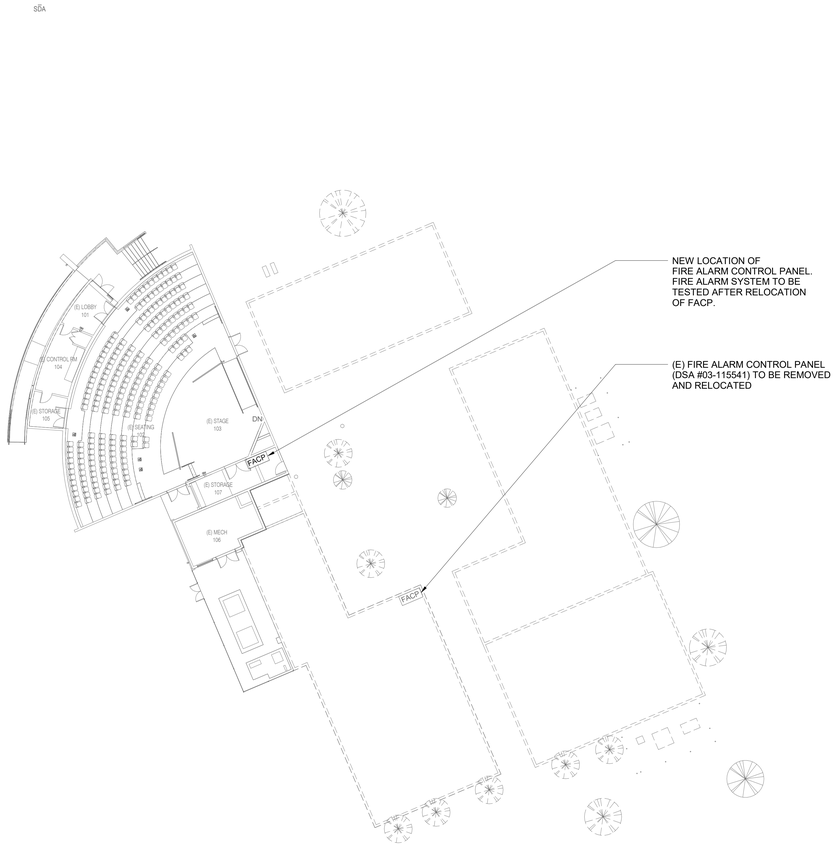
COMPTON COLLEGE
STRUCTURAL UPGRADE
OF REMAINING PORTIONS
OF EXISTING BUILDING Y

1111 EAST ARTESIA BLVD,
COMPTON, CA 90221-5393

ISSUE DESCRIPTION		
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
FIRE ALARM RISER DIAGRAM AND CALCULATIONS

SHEET NUMBER
FA002



1 FIRE ALARM DEMOLITION SITE PLAN
SCALE: 1/16" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
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ISSUE DESCRIPTION

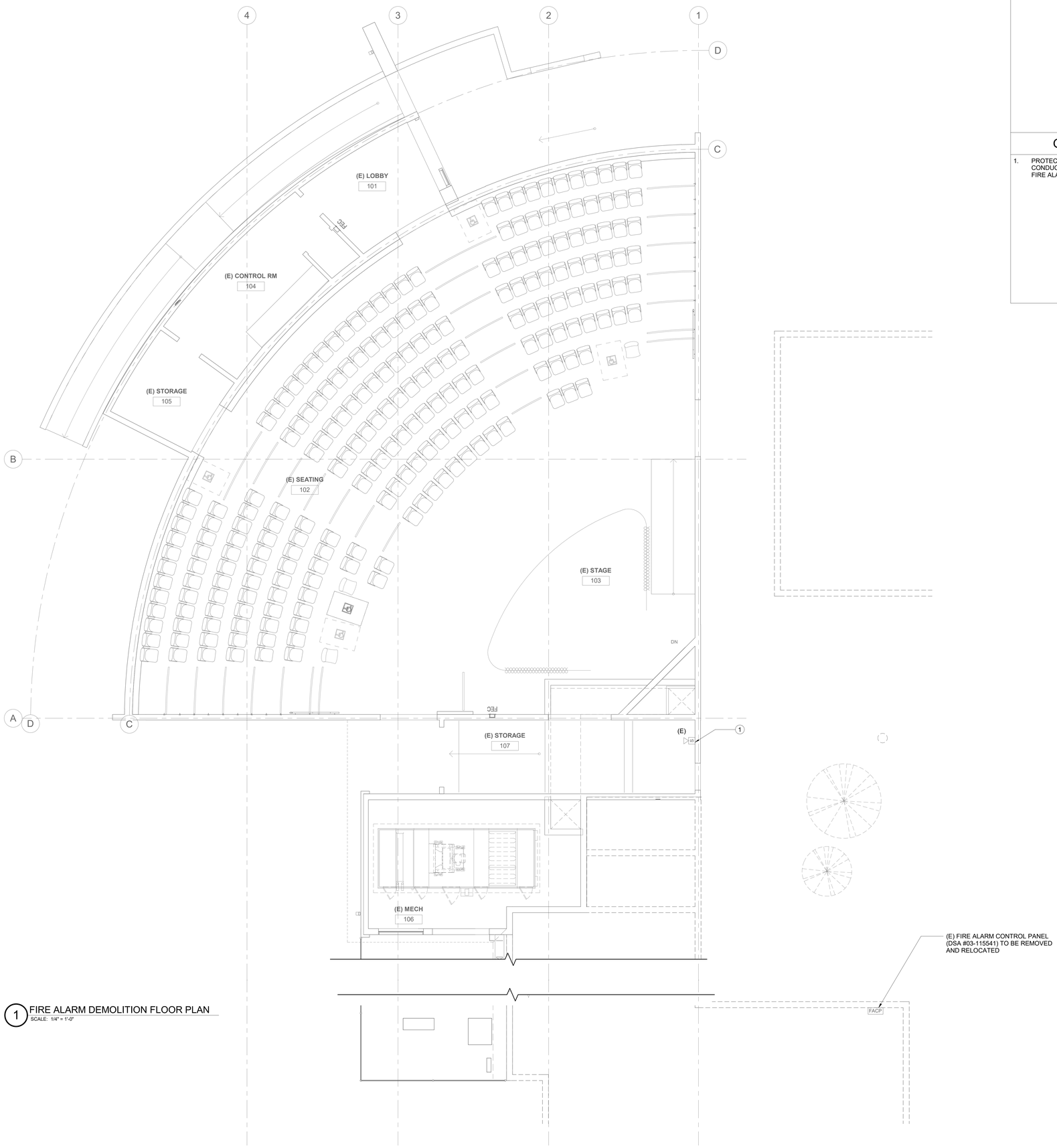
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
FIRE ALARM DEMOLITION SITE PLAN

SHEET NUMBER
FA100

02-08-2024 13:38:08

Received By PCM3 on 08/19/2024



1 FIRE ALARM DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

KEYNOTES

1. EXISTING SPEAKER TO BE REMOVED AND RELOCATED.

GENERAL NOTES

1. PROTECT EXISTING FIRE ALARM CONDUITS AND CONDUCTORS DURING RELOCATION OF EXISTING FIRE ALARM CONTROL PANEL.

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SS ☑ FLS ☑ ACS ☑
DATE: 08/14/2024

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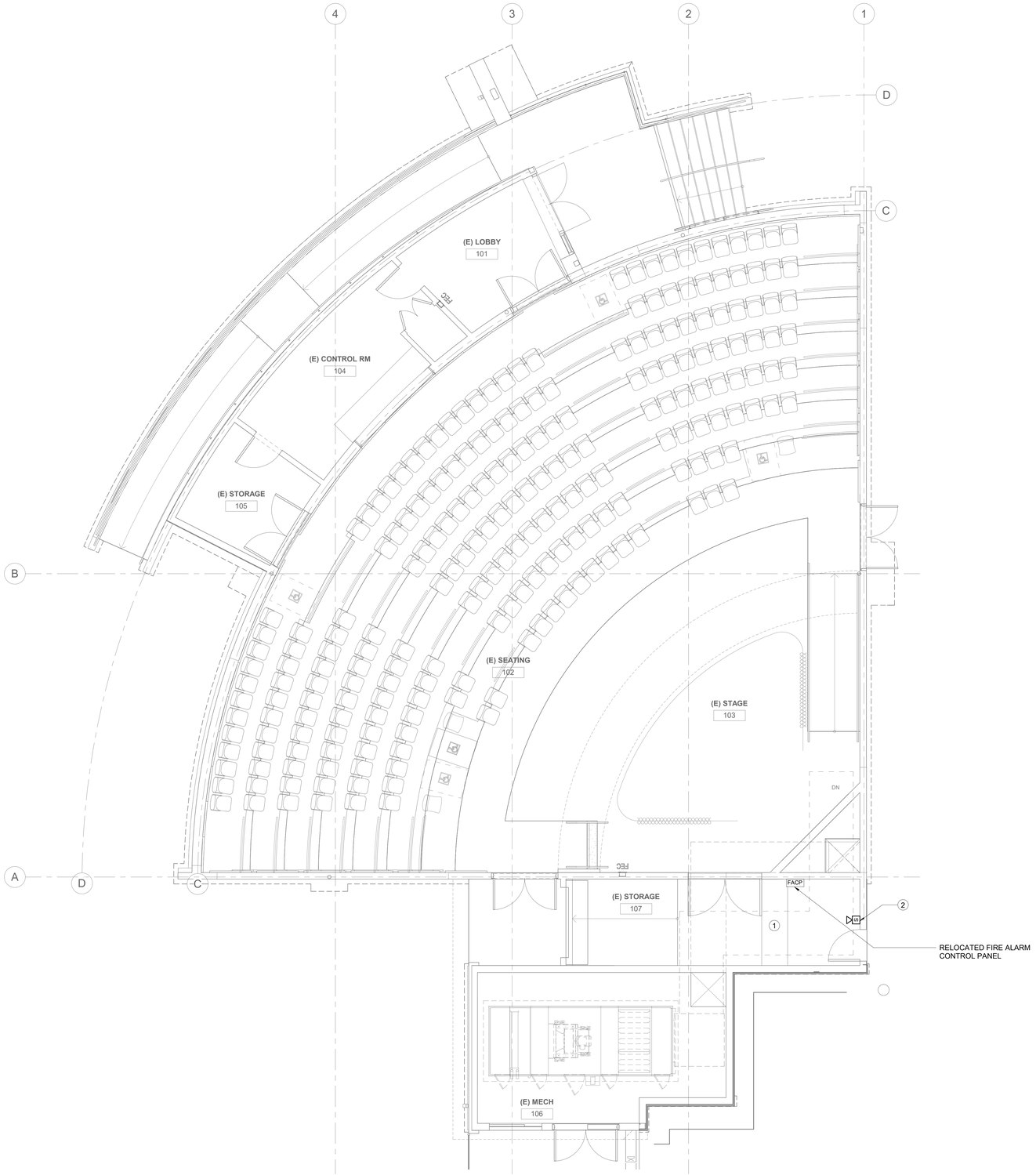
ISSUE DESCRIPTION

1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
FIRE ALARM DEMOLITION FLOOR PLAN

SHEET NUMBER
FA101



1 FIRE ALARM FLOOR PLAN
SCALE: 1/4" = 1'-0"

KEYNOTES

1. REMOVE & REPLACE (E) CONDUIT/S WITHIN THIS AREA AS REQUIRED.
2. EXISTING SPEAKER TO BE RELOCATED.

GENERAL NOTES

1. RE-CONNECT EXISTING FIRE ALARM SYSTEM TO RELOCATED FIRE ALARM CONTROL PANEL. TEST FIRE ALARM SYSTEM AFTER RECONNECTION TO RELOCATED FIRE ALARM CONTROL PANEL.

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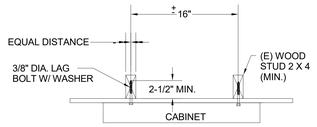
COMPTON, CA 90221-5393

ISSUE DESCRIPTION

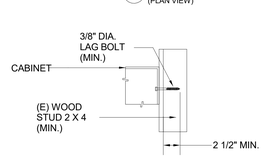
1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
FIRE ALARM FLOOR PLAN

SHEET NUMBER
FA102

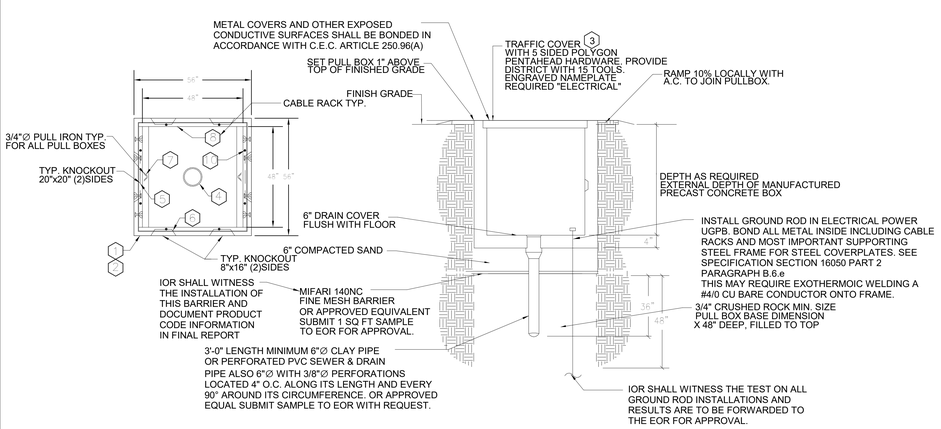


1 WOOD STUD
(PLAN VIEW)



2 SECTION

4 FACP/FCPS MOUNTING DETAIL
NO SCALE

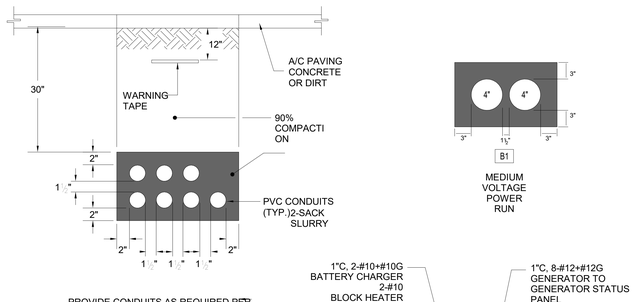


1. PB44F-B42-23, 42" BOTTOM SECTION. WT. 3,860 lbs.
2. PB44-T6F, 6" TOP SECTION. W/CAST-IN GALVANIZED FRAME (F44-PB-ANG). WT. 430 lbs.
3. SC44-TSRGV, 2-PIECE SLIP RES. TRAFFIC COVER W/1/2" x 21/2" STAINLESS STEEL PENTAHEAD BOLT-DOWNS, PICK HOLE, GALV. FINISH, WT. 521 lbs.
4. 8" x 9" DIA. SUMP x 4" DEEP W/GALV. SUMP COVER. LOCATE AS FOLLOWS: BOTTOM SECTION (1) CORE MTD.
5. 20" x 20" K.O. x 3" DEEP. DRAFT AS FOLLOWS: 2" TYP. ALL SIDES. LOCATE AS FOLLOWS: BOTTOM SECTION (2) SHELL MTD.
6. 8" x 16" K.O. x 3" DEEP. DRAFT AS FOLLOWS: 2" TYP. ALL SIDES. LOCATE AS FOLLOWS: BOTTOM SECTION (4) SHELL MTD.
7. 7/8" DIA. GALV. PULL IRON. LOCATE AS FOLLOWS: BOTTOM SECTION (2) CORE MTD.
8. 1/2" P-35-T INSERT. BOTTOM SECTION (8) CORE MTD.
9. NOT USED
10. 1/2" P-35-T INSERT W/CLEAN-OUT TOP SECTION (8) FRAME MTD.

NOTES:

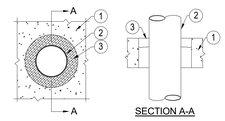
1. IN THE PRECAST CONCRETE PULL BOXES FURNISH AND INSTALL CABLE RACKS ON WALLS INDICATED, EACH RACK SHALL BE EQUIPPED WITH THREE PORCELAIN CABLE HOLDERS ON A VERTICAL STEEL MOUNTING BAR. BOLT HOLES SHALL BE PRE-CAST PULL BOXES QUICKSET UTILITY VAULT SERIES TPB-1001 OR EQUAL. WITH STAINLESS STEEL FLAT HEAD SCREWS AND SELF CLEANING HOLES. LOOP ALL CABLES AROUND THE LONGEST LENGTH IN THE PULL BOX. BOXES SHALL BE JENSEN OR APPROVED EQUAL.

3 UNDERGROUND PULL BOX DETAIL
NO SCALE



2 TRENCHING DETAIL
NO SCALE

SYSTEM NO. C—AI-1027
(Remedy System No. 202)
F RATING — 3 HOUR
T RATING — 0 HOUR



SECTION A-A

1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX THROUGH OPENING SIZE IS 12.4 SO. IN.

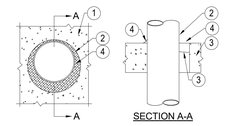
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. PIPE OR CONDUIT - NOM. 10 IN. 01k (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) RIGID STEEL CONDUIT, NOM 4 IN. DIA. (OR SMALLER) STEEL EMT OR NOM 3 IN. DIA. (OR SMALLER). TYPE L (OR HEAVIER) COPPER PIPE. MAX ONE PIPE OR CONDUIT PER THROUGH OPENING. MAX ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 3/4 IN. MIN ANGULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 0 IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

3. FILL VOID OR CAVITY MATERIALS - PUTTY-MOLDABLE PUTTY MATERIAL NEEDED BY HAND AND APPLIED TO FILL ANNULAR SPACE TO A MIN DEPTH OF 1 IN FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLES, REQUIRED PUTTY THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL.

   MINNESOTA MINING & MFG. CO.- MPS-2+. BEARING THE UL CLASSIFICATION MARKING.

SYSTEM NO. CAJ1044
(Formerly System No. 319)
T RATING - 0 HR
L RATING AT AMBIENT - 2 CFM/S0 FT (SEE ITEM 4)
L RATING AT 400 F - LESS THAN I CFM/SQ FT (SEE ITEM 4)



SECTION A-A

1. FLOOR WALL ASSEMBLY-LIGHTWEIGHT OR NORMAL WEIGHT (100 -150 Kr) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4-1/2 IN. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. noel(UL CUSSIFIED HOLLOW-CORE. PRECOAT CONCRETE UNITS. WIEN FLOOR IS CONSTRUCTED OF NC4.10W-CORE PRECOAT CONCETE UNITS, PACKING MATERIALS (RN 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMETRYCALLY ON BOTH SIDES Cf THE FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED Cf CLASSIFIED CONCRETE BLOCKS. MAX OLA. OF OPENING IS 32 N. SEE CONCIREIE BLOCKS (CAD) NO PRECAST CONCRETE UNITS (CFTV) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURER

IA. STEEL SIEVE - (MOORE NOT SHOWN) NOM 16 IN. (OR SMALLER) SCHEDULE 10 (ORHEAVIER) STEEL SLEEVE CAST CR GROUTED MO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP FLOOR OR BEYOND EITHER SURFACE OF WALL.

2. PPE OR CONDUIT - 14041 30 IN.D1A. (OR SMALLER) CAST IRON OR SCHEDULE 10 (OR HEWER) STEEL PIPE. NOM 6 IN. DIA. (OR SMALLER) STEEL CONDUIT. NEM 3 IN. DIA. (OR SIIALLER) TYPE L (CR HEAVER) CCPPER TUBE CR NOM 4 N. DLL (OR SMALLER) STEEL ELECTRICAL METALIC RIDING. MAX ANNU;AR SPACE BETWEEN PIPE OR CONDUIT NC EDGE OF THROUGH OPENING NOT TO EXCEED 2 IM. WI ANNULAR SPACE BETWEEN PPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0 IN. (PONT CONTACT). PPE OR CONDUIT TO BE ROM SUPPORTED ON BOTH SIDE CF FLOOR OR WALL ASSEMBLY.

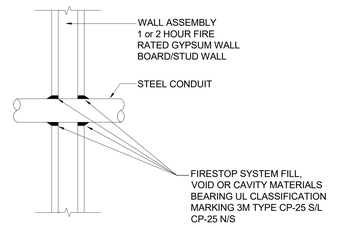
3. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR HOLM 1 IN. THICKNESS OF THIGHTLY-PACKRO LIBERAL WOOL ELATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERIMIENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OF FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REOURED TWKNESS OF CAULK Fla MATERIAL (ITEM 4).

4. FILL, VOID OR CAVITY MATERIAL - CAULK - APPUED TO FILL THE AMMAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. THE HOURLY F RATING AND THE MIN PROCURED CAULK THICKNESS ARE DEPENDENT UPON A EWER OF PARAMETERS. AS SHOWN ON THE FOLLOWING TABLE.

MIN FLOOR OR WALL THKNS, IN	NOM PIPE TUBE OR CONDUIT DIA. IN.	MAX ANNULAR SPACE, IN	MAX CAULK THKNS, IN	F RATING, HR
2-1/2	1/2-12	1-3/8	1/2	2
2-1/2	1/2-12	2-7/8	1	2
4-1/2	1/2-6	1-3/8	1/4(a)	2
4-1/2	1/2-12	1-1/4	1/2	3
4-1/2	1/2-20	2	1	3
4-1/2	22-30	2	2	3
5-1/2	1/2-6	1-3/8	1(b)	4

(a) MIN 2 IN THICKNESS OF MINERAL—WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.
(b) MIN 1 IN, THICKNESS OF MINERAL—WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1IN. THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE FLOOR OR WALL ASSEMBLY.
MINNESOTA MINING & MANUFACTURING CO — TYPES CP-25 WB, CP-25 WB+. (NOTE: L RATING AND OR USE OF OPTIONAL SLEEVE APPLY ONLY WHEN TYPE CP-25WB+ CAULK IS USED).

SYSTEM NO. WL1001
(Formerly System No. 147)
F RATING - 1 & 2 HOUR
T RATING - 0, 1, 1-1/2 & 2 HOUR



1. 1. SEAL ALL PENETRATIONS IN ACCORDANCE WITH APPLICABLE CODES TO PRESERVE ORIGINAL FIRE HOUR RESISTANCE OF WALLS, FLOORS OR CEILINGS. USE UL DIRECTORY ASSEMBLY NOS. 49 & 328, AS APPLICABLE FOR ALL FIRE WALL PENETRATIONS.
2. 2. AT FIRE SEPARATION WALLS, WRAP CONDUIT WITH 3M CONDUIT WRAP F3-195 TO WITHIN 1/4" OF OPENING; ALL THE GAP AND COVER EDGE OF WRAP WITH 3M-CP25 CAULK AND/OR #303 PUTTY.

1 THROUGH-PENETRATION FIRESTOP SYSTEM DETAILS
NO SCALE

Structure
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COMPTON, CA 90221-5393

ISSUE DESCRIPTION

1	DSA SUBMITTAL	01.12.2024

SHEET TITLE
FIRE ALARM
DETAILS

SHEET NUMBER
FA301