LODI UNIFIED SCHOOL DISTRICT

GEORGE WASHINGTON ES MODERNIZATION

07/30/2024

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED SUCH REQUIREMENTS, WITHOUT VIOLATING SUCH CODES, REGULATIONS AND ORDINANCES, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.

2. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND PROJECT MANUAL (SPECIFICATIONS) AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.

3. REFER TO THE PROJECT MANUAL (SPECIFICATIONS) FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS, AND OTHER REQUIREMENTS.

4. THE CONSTRUCTION DOCUMENT DRAWINGS AND PROJECT MANUAL (SPECIFICATIONS) ARE COMPLIMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.

5. THE CONTRACTOR SHALL:

   A. CONFIRM ALL NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM THE ARCHITECT, IT SHALL BE AT THE CONTRACTOR'S RISK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
   B. REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEER'S DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
   C. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY THE CONTRACTOR AS DIRECTED BY THE ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.
   D. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS.
   E. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE WORK ACCORDINGLY.
   F. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION, AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY THE ARCHITECT.
   G. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. PROVIDE TEMPORARY PASSAGES AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH OWNER FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES USE AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE OWNER. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL.
   H. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN CORRIDORS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN THE PROJECT MANUAL (SPECIFICATIONS).
   I. ENACT ALL MEASURES TO PROTECT IN PLACE AND SAFEGUARD ALL ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR ELEMENTS DAMAGED BY THE EXECUTION OF THE CONTRACT TO EQUAL OR LIKE NEW CONDITION.
   J. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH EQUIPMENT MANUFACTURER.
   K. COORDINATE THE LOCATION AND TYPE OF ALL ACCESS PANELS REQUIRED FOR ACCESSING MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER BUILDING SYSTEMS WITH THE ARCHITECT.
   L. ENSURE ALL CONSTRUCTION REMAINS ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED BY THE INSPECTOR OF RECORD. FOR CONTINUOUS INSPECTION, TESTING, AND OBSERVATION REQUIREMENTS, REFER TO THE TESTING AND OBSERVATION PROGRAM.
   M. STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTOR'S SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO OWNER.

6. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY THE ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM THE ARCHITECT, IT SHALL BE AT THE CONTRACTOR'S RISK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.

7. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.

8. ALL PLAN DIMENSIONS SHOWN AT CENTER OF WALL REPRESENT CENTER LINE OF STUD OR STRUCTURAL ELEMENT UNLESS NOTED OTHERWISE.

9. ALL PLAN DIMENSIONS FOR MASONRY AND CONCRETE REPRESENT FACE OF MATERIAL AND OPENING UNLESS NOTED OTHERWISE.

10. ALL PLAN DIMENSIONS FOR STUD WALLS REPRESENT FACE OF STUD UNLESS NOTED OTHERWISE.

11. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF THE ARCHITECT UNLESS NOTED (±) OR "VERIFY". DIMENSIONS NOTED "HOLD" SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAYOUT CONTROL UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.

    ANY ITEM, CONDITION OR DIMENSION NOTED AS "FIELD VERIFY" OR "VERIFY IN FIELD" SHALL BE CONFIRMED ON SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT OF RECORD BEFORE INCORPORATING INTO THE WORK.

12. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS NOTED "AFF" (ABOVE FINISH FLOOR)

13. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", THE CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.

14. PROVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.

15. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.

16. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.

17. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY

18. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF PBK ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF PBK ARCHITECTS, INC.

19. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, PBK ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS PBK ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

20. FIRE SAFETY DURING CONSTRUCTION:

    A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.
    B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER5, SECTION 501.4 AND CHAPTER 33, SECTION 3310.
    C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATION IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3312.
    D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS OR FIRE APPLIANCES.
    E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.
    F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

21. PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE RESTORED TO EQUAL RATING. FIRE STOP SYSTEMS AS LISTED BY UNDERWRITERS LABORATORIES SHALL BE INSTALLED PER FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.

22. CUTTING, BORING, SAW-CUTTING OR DRILLING THROUGH STRUCTURAL ELEMENTS SHALL NOT COMMENCE UNTIL THE DRAWINGS HAVE BEEN SUBMITTED, REVIEWED, AND APPROVED BY THE ARCHITECT OF RECORD.

23. NONRESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 6):

    THE DESIGN INDICATED HEREIN COMPLIES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDING(S) WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS PROVIDED IT (THEY) IS (ARE) BUILT ACCORDING TO THESE DRAWINGS AND SPECIFICATIONS AND PROVIDED ANY FUTURE IMPROVEMENTS ARE COMPLETED ACCORDING TO THE REQUIREMENTS OF TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO INCLUDE ALL SIGNIFICANT ENERGY CONSERVATION FEATURES REQUIRED FOR COMPLIANCE WITH THE STANDARDS. BUILDING AREAS THAT ARE UNCONDITIONED AND/OR NOT SUBJECT TO THE STANDARDS ARE INDICATED ON THE PLANS.

    ENVELOPE MANDATORY MEASURES:

    A. INSTALLED INSULATING MATERIALS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.
    B. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS, SECTIONS 720 AND 2603.
    C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
    D. SITE CONSTRUCTED DOORS, WINDOWS, AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
    E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 6, CALIFORNIA CODE OF REGULATIONS, SECTION 110.6.
    F. MANUFACTURED FENESTRATION PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FRENCH DOORS, SKYLIGHTS, CURTAIN WALLS, AND GARDEN WINDOWS MUST BE LABELED FOR U-VALUE IN ACCORDANCE WITH THE (NFRC) NATIONAL FENESTRATION RATING COUNCIL'S INTERIM U-VALUE RATING PROCEDURE.
    G. DEMISING WALL INSULATION SHALL BE INSTALLED IN ALL OPAQUE PORTIONS OF FRAMED WALLS (EXCEPT DOORS).

24. INSPECTOR OF RECORD REQUIREMENTS:

    A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTORS DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.
    B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 3 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPACTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.

25. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

26. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24, CCR, PART 1, SECTION 4-338 AND DSA IR A-6.

27. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

28. DRINKING WATER SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS.

29. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH REQUIREMENTS AND THE CALIFORNIA RETAIL FOOD FACILITIES LAW.

30. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY 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 THE DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).

31. ALL SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING INDICATED ON THESE DRAWINGS WAS DESIGNED IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND THE ACCESSIBILITY STANDARDS OF THE CALIFORNIA BUILDING CODE (CBC) TITLE 24, PART 2, CHAPTER 11B OF THE CALIFORNIA CODE OF REGULATIONS (CCR). STRICT EXECUTION OF THE SLOPE AND CROSS SLOPE OF ACCESSIBLE ROUTE PAVING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SHOULD A CONDITION PRESENT ITSELF THAT WOULD RESULT IN AN INSTALLATION OTHER THAN WHAT IS INDICATED IN THESE DRAWINGS, PBK ARCHITECTS INC. SHALL BE NOTIFIED IN WRITING AND A COMPLIANT RESOLUTION WILL BE FORMULATED.

32. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

33. SUBSTITUTIONS AFFECTING DSA-REGULATED ITEMS SHALL BE CONSIDERED AS CONSTRUCTION CHANGE DOCUMENTS (CCD'S) AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(c) PART 1, TITLE 24 CCR.

34. 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.

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

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

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

38. 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.

39. 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.

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

DRAWING CONVENTIONS

- ENLARGED PLAN / DETAIL ENLARGEMENT (1 / A101)
- EXTERIOR ELEVATION (1 / A6.00)
- BUILDING SECTION (1 / A7.10)
- WALL SECTION (1 / A7.10)
- DETAIL SECTION (1 / A9.00)
- INTERIOR ELEVATIONS (106 / A6.20; A, B, C, D)
- ROOM NAME & NUMBER (ROOM NAME 106)
- MATCH LINE (1 / A2.00)
- FLOOR / DATUM LINE (NAME ELEVATION)
- GRID / COLUMN LINE (A)
- EXISTING GRID / COLUMN LINE (A)
- NEW PARTITION
- PARTITION TYPE (S4A.2) *REFER TO SHEET* ***A7.00*** *FOR DEFINITION*
- EXISTING PARTITION
- DOOR DESIGNATION (106B)
- WINDOW DESIGNATION (A)
- DIMENSIONS (6'-6" 5'-6" 12'-0") *NOTE: ALL DIMENSIONS TO FACE OF STUD / ℄ OF COLUMN UNLESS NOTED OTHERWISE*
- W.I. CABINET REFERENCE (302, 36"x24"x30") *WIDTH x DEPTH x HEIGHT*
- EQUIPMENT DESIGNATION (TA3)
- CONSTRUCTION KEYNOTE (09 21.00)
- DEMOLITION KEYNOTE (D.00)
- REVISION / REVISION NUMBER (1)
- NORTH ARROWS (REFERENCE NORTH, TRUE NORTH)

ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	LAV	LAVATORY
A.F.G.	ABOVE FINISH GRADE	LT WT	LIGHTWEIGHT
A.H.J.	AUTHORITY HAVING JURISDICTION	M.O.	MASONRY OPENING
AC	ASPHALT CONCRETE PAVEMENT	MAS	MASONRY
ACC	ACCESSIBLE, ACCESSIBILITY	MATL	MATERIAL (S)
ACP	ACOUSTICAL PANEL	MAX	MAXIMUM
ACT	ACOUSTICAL TILE	MB	MARKER BOARD
AD	AREA DRAIN	MECH	MECHANICAL
ADA	AMERICANS WITH DISABILITIES ACT	MEP	MECHANICAL, ELECTRICAL, PLUMBING
ADA	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	MFR / MANUF	MANUFACTURE (R)
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES	MIN	MINIMUM
ADJ	ADJACENT	MISC	MISCELLANEOUS
ALT	ALTERNATE	MTL	METAL
ALUM	ALUMINUM	N.I.C.	NOT IN CONTRACT
ASPH	ASPHALT	N.T.S.	NOT TO SCALE
B.O.D.	BOTTOM OF DECK	NO.	NUMBER
BD	BOARD	NOM	NOMINAL
BLDG	BUILDING	O.C.	ON CENTER (S)
BLK	BLOCK	O.C.E.W.	ON CENTER EACH WAY
BM	BEAM	O.D.	OUTSIDE DIAMETER
BUR	BUILT-UP ROOF	O.H.	OPPOSITE HAND
CAB, CABT	CABINET	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CJ	CONTROL JOINT		
CL	CENTERLINE	OPNG	OPENING
CLG	CEILING	OPP	OPPOSITE
CLR	CLEAR	P. LAM / PLAM	PLASTIC LAMINATE
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN	PCC	PORTLAND CEMENT CONCRETE PAVING
CONC	CONCRETE		
COND	CONDITION	PL	PLATE
CONT	CONTINUOUS	PLUMB	PLUMBING
CORR	CORRIDOR	PR	PAIR
CPT	CARPET (ED)	PREFIN	PRE-FINISHED
CT	CERAMIC TILE	PT	POINT
CW	COLD WATER	PT	PRESSURE-TREATED
D	DRYER	PTD	PAINTED
D.A.	DISABLED ACCESS(IBILITY)	PWD / PLYWD	PLYWOOD
DF	DRINKING FOUNTAIN	R / RAD	RADIUS
DIA / Ø	DIAMETER	RCP	REFLECTED CEILING PLAN
DIM	DIMENSION	RD	ROOF DRAIN
DS	DOWNSPOUT	RE / REF	REFER TO / REFERENCE / SEE
DTL	DETAIL	RECP	RECEPTACLE
DWG	DRAWING	REINF	REINFORCE (D), (ING)
EA	EACH	REQ'D	REQUIRED
EJ	EXPANSION JOINT	REV	REVISION (S), REVISED
EL	ELEVATION (HEIGHT)	SC	SEALED CONCRETE
ELEC	ELECTRICAL	SCHED	SCHEDULE
ELEV	ELEVATION (DRAWING)	SECT	SECTION
EQ	EQUAL	SHT	SHEET
EQUIP	EQUIPMENT	SIM	SIMILAR
EXIST	EXISTING	SPEC	SPECIFICATION (S)
EXP	EXPANSION	SQ	SQUARE
EXT	EXTERIOR	SS	STAINLESS STEEL
FD	FLOOR DRAIN	STL	STEEL
FE	FIRE EXTINGUISHER	STR / STRUCT	STRUCTURAL
FEC	FIRE EXTINGUISHER CABINET		
FIN	FINISH (ED)	SUSP	SUSPENDED
FIXT	FIXTURE	SVF	SHEET VINYL FLOORING
FLR	FLOOR (ING)	T.O.	TOP OF
FRP	FIBER-REINFORCED PLASTIC	T.O.M.	TOP OF MASONRY
GA	GAUGE	T.O.P.	TOP OF PARAPET
GALV	GALVANIZED	T.O.S.	TOP OF STEEL
GEN	GENERAL	TB	TACK BOARD
GL	GLASS / GLAZING	THK	THICK (NESS)
GL	GLASS	TYP	TYPICAL
GR	GRADE	U.N.O.	UNLESS NOTED OTHERWISE
GYP	GYPSUM DRYWALL	UR	URINAL
HM	HOLLOW METAL FRAME	V.I.F.	VERIFY IN FIELD
HORIZ	HORIZONTAL	VCT	VINYL COMPOSITION TILE
HT	HEIGHT	VER	VERIFY
HVAC	HEATING, VENTILATION, AIR CONDITIONING	VERT	VERTICAL
		VWC	VINYL WALL COVERING
HW	HOT WATER	W/	WITH
ID	INSIDE DIAMETER	WC	WATER CLOSET
INSUL	INSULATE (ED), (ION)	WD	WOOD
INT	INTERIOR	WDW	WINDOW
JT	JOINT	WT	WEIGHT
LA	LANDSCAPED AREA		
LAM	LAMINATE (D)		

CODES & STANDARDS

PARTIAL LIST OF APPLICABLE CODES

2022 California Administrative Code (CAC) .... (Part 1, Title 24, CCR)
2022 California Building Code (CBC) .... (Part 2, Title 24, CCR)
(2021 International Building Code Volumes 1 & 2 with 2022 California Amendments)
2022 California Electrical Code (CEC) .... (Part 3, Title 24, CCR)
(2020 National Electrical Code with 2022 California Amendments)
2022 California Mechanical Code (CMC) .... (Part 4, Title 24, CCR)
(2021 IAPMO Uniform Mechanical Code with 2022 California Amendments)
2022 California Plumbing Code (CPC) .... (Part 5, Title 24, CCR)
(2021 IAPMO Uniform Plumbing Code with 2022 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 with 2022 California Amendments)
2022 California Existing Building Code (CEBC) .... (Part 10, Title 24, CCR)
(2021 International Existing Building Code with 2022 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 Marshall Regulations
2019 ASME A17.1/CSA B44-13 Safety Code For Elevators and Escalators (per 2022 CBC Part 2, Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 .... Standard for the Installation of Sprinkler Systems (as amended) * .... (2022 Edition)
NFPA 14 .... Standard for the Installation of Standpipe and Hose Systems (as amended) * .... (2019 Edition)
NFPA 17 .... Standard for Dry Chemical Extinguishing Systems .... (2021 Edition)
NFPA 17A... Standard for Wet Chemical Extinguishing Systems .... (2021 Edition)
NFPA 20 ..... Standard for the Installation of Stationary Pumps for Fire Protection .... (2019 Edition)
NFPA 22 .... Standard for Water Tanks for Private Fire Protection .... (2018 Edition)
NFPA 24 .... Standard for the Installation of Private Fire Service Mains and Their Appurtenances (as amended)* .... (2019 Edition)
NFPA 25 .... Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems with California Amendments (Based on NFPA 25, 2011 Edition) .... (2013 Edition)
NFPA 72 .... National Fire Alarm and Signaling Code (as amended) * .... (2022 Edition)
NFPA 80 .... Fire Doors and Other Opening Protectives .... (2019 Edition)
NFPA 92 .... Standard for Smoke Control Systems .... (2018 Edition)
NFPA 253 .. Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source .... (2019 Edition)
NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems (as amended) * .... (2018 Edition)
ICC 300 ...... ICC Standard on Bleachers, Folding and Telescoping Seating and Grandstands .... (2017 Edition)
UL 300 .... Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment—with Revisions through December 2014 .... 2005 (R2010)
UL 464 .... Audible Signal Appliances—with Revisions through October 10, 2003 .... (2003 Edition)
UL 521 .... Heat Detectors for Fire Protective Signaling Systems—with Revisions through July 20, 2005 .... (1999 Edition)
UL 1971 ..... Standard for Signaling Devices for the Hearing Impaired .... (2018 Edition)
* See CBC Chapter 35, Referenced Standards for State of California amendments to the NFPA Standards.
For a complete list of applicable NFPA standards refer to 2022 CBC (SFM) Chapter 35 and California Fire Code (CFC) Chapter 80.

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECT/ENGINEERS WHO UTILZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

Application No. 01-121905 File No. 39-50

[X] The drawings or sheets listed on the cover or index sheet (see asterisk *)
[ ] 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] The drawings or sheets listed on the cover or index sheet
[ ] This drawing or page

[X] is/are in general conformance and
[X] have been coordinated

[signature] 10-28-2024
Signature — Date
Architect or Engineer designated to be in general responsible charge

Leona Ketterl 10-28-2024
Print Name — Date

C-32299 09-30-2025
License Number — Expiration Date

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G0.20 OVERALL CODE REVIEW PLAN
G0.21 CODE REVIEW PLAN - BLDG.A
G0.22 CODE REVIEW PLANS - BLDGS.B & C
G0.30 ACCESSIBILITY GUIDELINES
G0.40 SIGNAGE
G0.50 INTERIOR PARTITION TYPES

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D2.01 OVERALL DEMOLITION FLOOR PLAN
D2.02 DEMOLITION FLOOR PLANS
D2.03 ENLARGED DEMOLITION FLOOR PLANS
D3.02 DEMOLITION REFLECTED CEILING PLANS

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A1.02 ENLARGED IMPROVEMENT SITE PLAN AND DETAILS
A2.01 OVERALL IMPROVEMENT FLOOR PLAN
A2.02 IMPROVEMENT FLOOR PLANS
A2.03 ENLARGED IMPROVEMENT PLANS & ELEVATIONS
A2.04 ENLARGED IMPROVEMENT PLANS & ELEVATIONS
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S0.11 TYPICAL FOUNDATION & SOG DETAILS
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PC DRAWINGS #04-122188
LS1.0 GENERAL INFO
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LS3.0 30' WIDE RECTANGULAR GABLE FOUNDATION PLAN
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LS5.0 OPTIONAL ELECTRICAL ACCESS

SHEET TOTAL: 75

SHEET NUMBERING

A2.01

SEQUENCE (.01 - .99......etc.)

SHEET TYPE
1 - SITE PLANS & DETAILS
2 - FLOOR PLANS
3 - ROOF
4 - ENLARGED PLANS
5 - PLAN DETAILS
6 - BUILDING SECTIONS, EXTERIOR/INTERIOR ELEVATIONS
7 - PARTITION TYPES & WALL SECTIONS
8 - CASEWORK DETAILS
9 - WINDOWS, DOORS, FRAME ELEVATIONS & DETAILS
10 - REFLECTED CEILING, FLOOR FINISH PLANS & DETAILS
11 - EQUIPMENT AND FURNITURE PLANS

DISCIPLINE
G - GENERAL
C - CIVIL
L - LANDSCAPE
D - DEMO
A - ARCHITECTURAL
S - STRUCTURAL
M - MECHANICAL
P - PLUMBING
FP - FIRE PROTECTION
E - ELECTRICAL
T - TECHNOLOGY
FA - FIRE ALARM
FS - FOOD SERVICE

PROJECT TEAM

OWNER
LODI UNIFIED SCHOOL DISTRICT
1305 E VINE STREET
LODI, CA 95240
209-331-7000
CONTACT: LEONARD KAHN

ARCHITECT
PBK ARCHITECTS
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FOLSOM, CA 95630
916-355-9922
CONTACT: LEONA KETTERL

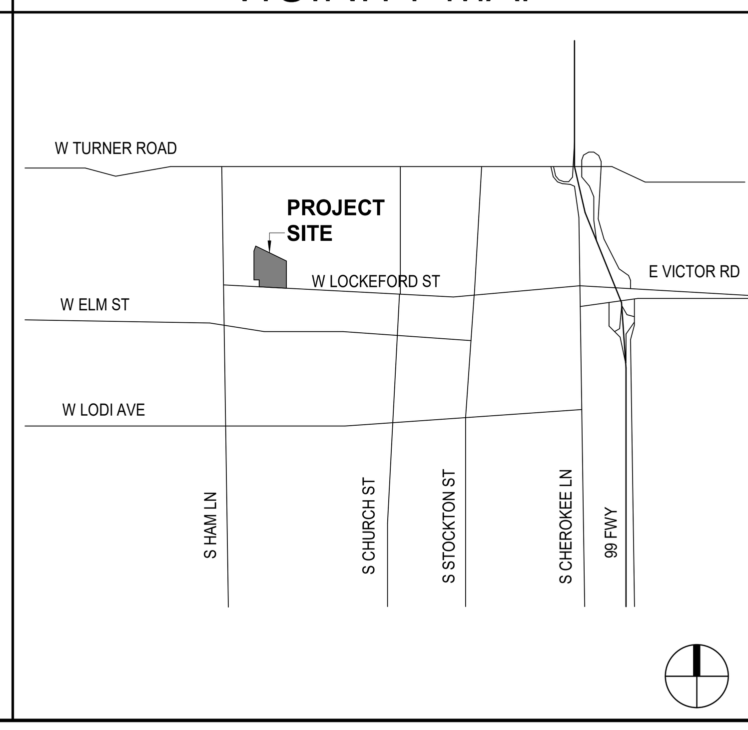
STRUCTURAL
MIYAMOTO INTERNATIONAL, INC.
1450 HALYARD DR #1
WEST SACRAMENTO, CA 95691
916-373-1995
CONTACT: LON DETERMAN

MECHANICAL
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FOLSOM, CA 95630
916-355-9922
CONTACT: GAREN LENCIONI

ELECTRICAL
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916-355-9922
CONTACT: RONALD DE LA CRUZ

PLUMBING
LEAF
1110 IRON POINT RD, SUITE 200
FOLSOM, CA 95630
916-355-9922
CONTACT: GAREN LENCIONI

VICINITY MAP



SCOPE OF WORK

THE SCOPE OF WORK AS STATE BELOW IS FOR PLAN REVIEW PURPOSES ONLY AND DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

SCOPE OF WORK INCLUDES ALL CONSTRUCTION AND SERVICES REQUIRED TO PROVIDE:

A. RESTROOM MODERNIZATIONS (DOES NOT INCLUDE RESTROOMS @ BUILDINGS A, B, AND C
B. FIRE ALARM SYSTEM PLUS EMERGENCY LIGHTING
C. UPDATED ELECTRICAL MAINS & DISTRIBUTON
D. ELECTRICCAL CAPACITY UPGRADES
E. EXTERIOR LIGHTING TO ENSURE STUDENT SAFETY
F. SIGNAGE FOR EMERGENCY RESPONSE & WAYFIDING
G. CLASSROOM MODERNIZATION, INCLUDING:
   1. REPAIR WALLS
   2. REPAIR WINDOWS
   3. REPAIR FLOORS
   4. REPAIR CEILINGS
   5. NEW INTERIOR LIGHTING AND CONTROLS
   6. UPGRADE ELECTRICAL WIRING & INCREASE ELECTRICAL OUTLETS
   7. REMAINING ASBESTOS REMOVAL
H. REPAIRING/ REPLACING CHAIN LINK FENCING
I. PC SHADE STRUCTURE

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REVIEWED FOR
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DATE: 12/19/2024

ARCHITECT — PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL

831 WEST LOCKEFORD STREET
LODI, CA 95240
DSA APP No. 02-121905

KEY PLAN

G	H	J
D	E	F
A	B	C

PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
LEONA M. KETTERL
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK

REVISIONS

#	DESCRIPTION	DATE

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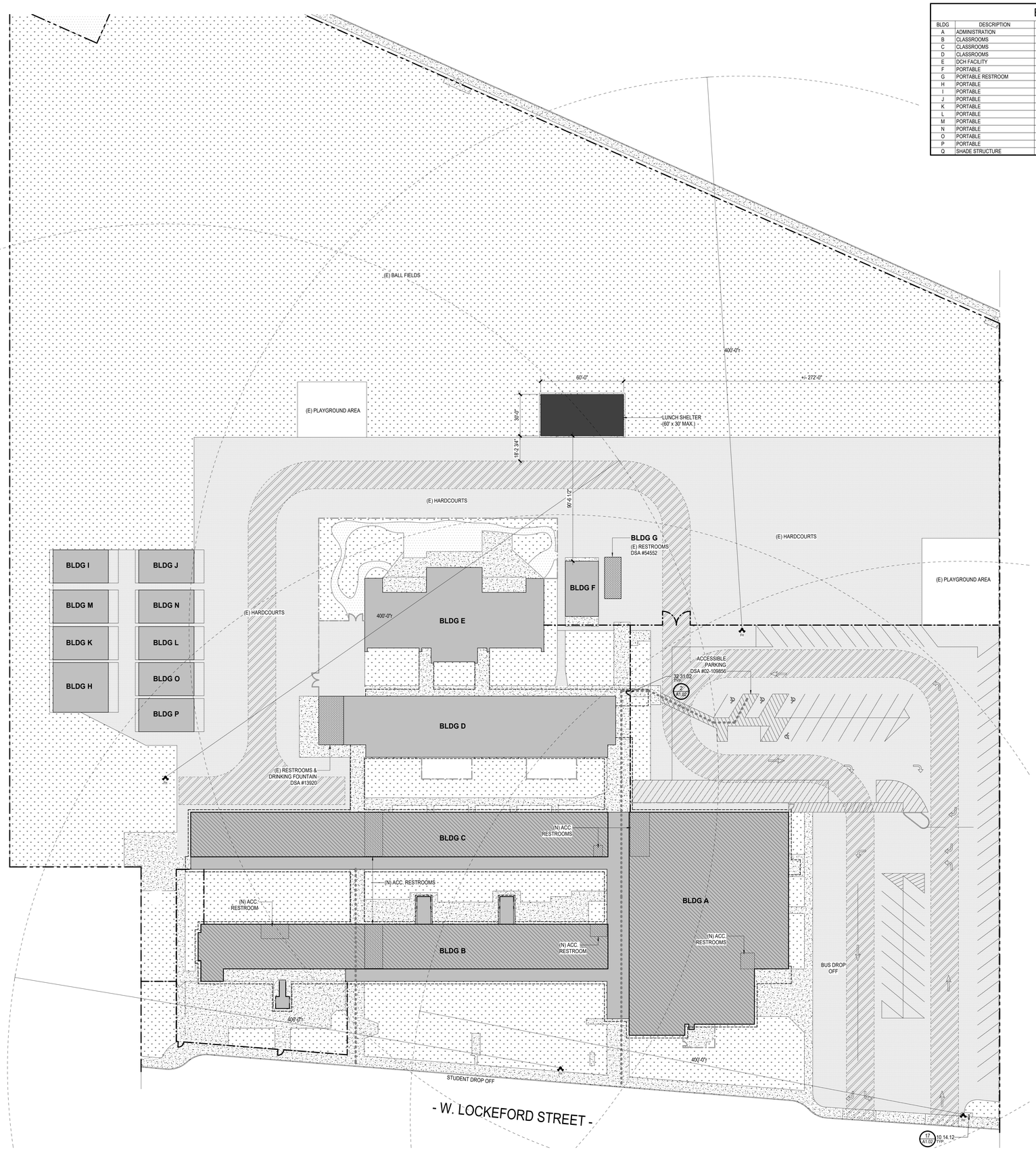
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COVERSHEET

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10/24/2024 11:02:24 AM

G0.10 - SITE DATA & CODE REVIEW



1 CODE ANALYSIS SITE PLAN
SCALE: 1" = 30'-0"

BUILDING INDEX

BLDG	DESCRIPTION	S.F.	OCC.	TYPE	DSA #	SPRINKLERED
A	ADMINISTRATION	17,024	B	V-N	63040	NON-SPRINKLERED
B	CLASSROOMS	9,695	E	V-N	46589	NON-SPRINKLERED
C	CLASSROOMS	9,745	E	V-N	46589	NON-SPRINKLERED
D	CLASSROOMS	9,090	E	V-N	13920,13921	SPRINKLERED
E	DCH FACILITY	6,480	B	V-N	44745	SPRINKLERED
F	PORTABLE	960	E	V-N	51276	NON-SPRINKLERED
G	PORTABLE RESTROOM	384	E	V-N	54552	NON-SPRINKLERED
H	PORTABLE	1,440	E	V-N	60014	NON-SPRINKLERED
I	PORTABLE	960	E	V-N	48768, 104299	NON-SPRINKLERED
J	PORTABLE	960	E	V-N	48768, 104299	NON-SPRINKLERED
K	PORTABLE	960	E	V-N	51362	NON-SPRINKLERED
L	PORTABLE	960	E	V-N	51362	NON-SPRINKLERED
M	PORTABLE	960	E	V-N	56865	NON-SPRINKLERED
N	PORTABLE	960	E	V-N	51362	NON-SPRINKLERED
O	PORTABLE	960	E	V-N	109856	NON-SPRINKLERED
P	PORTABLE	960	E	V-N	109856	NON-SPRINKLERED
Q	SHADE STRUCTURE	1,800	A-3	II-B	THIS APPLICATION	NON-SPRINKLERED

ACCESS SITE PLAN LEGEND

- (E) BUILDING IN SCOPE
- (E) FIRE ACCESS LANE
- ACCESSIBLE TOILET ROOM
- (E) LANDSCPE AREA
- (E) AC PAVING
- PROPOSED LUNCH SHELTER
- ASSUMED PROPERTY LINE
- (E) ACCESSIBLE PATH OF TRAVEL
- PROPERTY LINE
- (E) ROOF OUTLINE
- (E) FENCLINE
- FENCLINE
- (E) FIRE HYDRANT

PATH OF TRAVEL NOTES

ACCESSIBLE PATH OF TRAVEL (P.O.T.):
THE ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WITH.

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 OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80".

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE P.O.T. INDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) 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 HAVE BEEN IDENTIFIED AND 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 INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANT WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PARKING REQUIREMENTS

(E) PARKING LOT

STANDARD STALLS	72
REQ'D ACC. STALLS (PER CBC 11B-208.2)	3
PROVIDED ACC. STALLS	4
TOTAL	**76**

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

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

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

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.

PROJECT INFORMATION

School District/Owner:	LODI UNIFIED SCHOOL DISTRICT
Project Name/School:	GEORGE WASHINGTON ELEMENTARY SCHOOL MODERNIZATION
Project Address:	831 WEST LOCKEFORD STREET, LODI, CA 95240

FIRE & LIFE SAFETY INFORMATION

1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐	No ☑
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐	No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐	No ☑
	Refer to the following website for FHSZ locations. http://egis.fire.ca.gov/FHSZ/	Moderate ☐ High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*		WIFA ☐

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

Accepted by: Edith Halbert Title:
Signature: Date: 9/9/24

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name:	Lodi Fir
LFA Review Official:	Brad Dorll
Title:	Fire Marshal
Work Phone:	209-333-6739
Work Email:	bdorll@lodi.gov
LFA Reviewer's Signature:	Brad Dorll
Date:	9/9/24

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 2 of 4 STATE OF CALIFORNIA

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

GEORGE WASHINGTON ES MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
DSA APP No. 02-121905

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN

G	H	J
D	E	F
A	B	C

PLAN NORTH — TRUE NORTH

LICENSED ARCHITECT
LEONA M. KETTERL
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK

REVISIONS

#	DESCRIPTION	DATE

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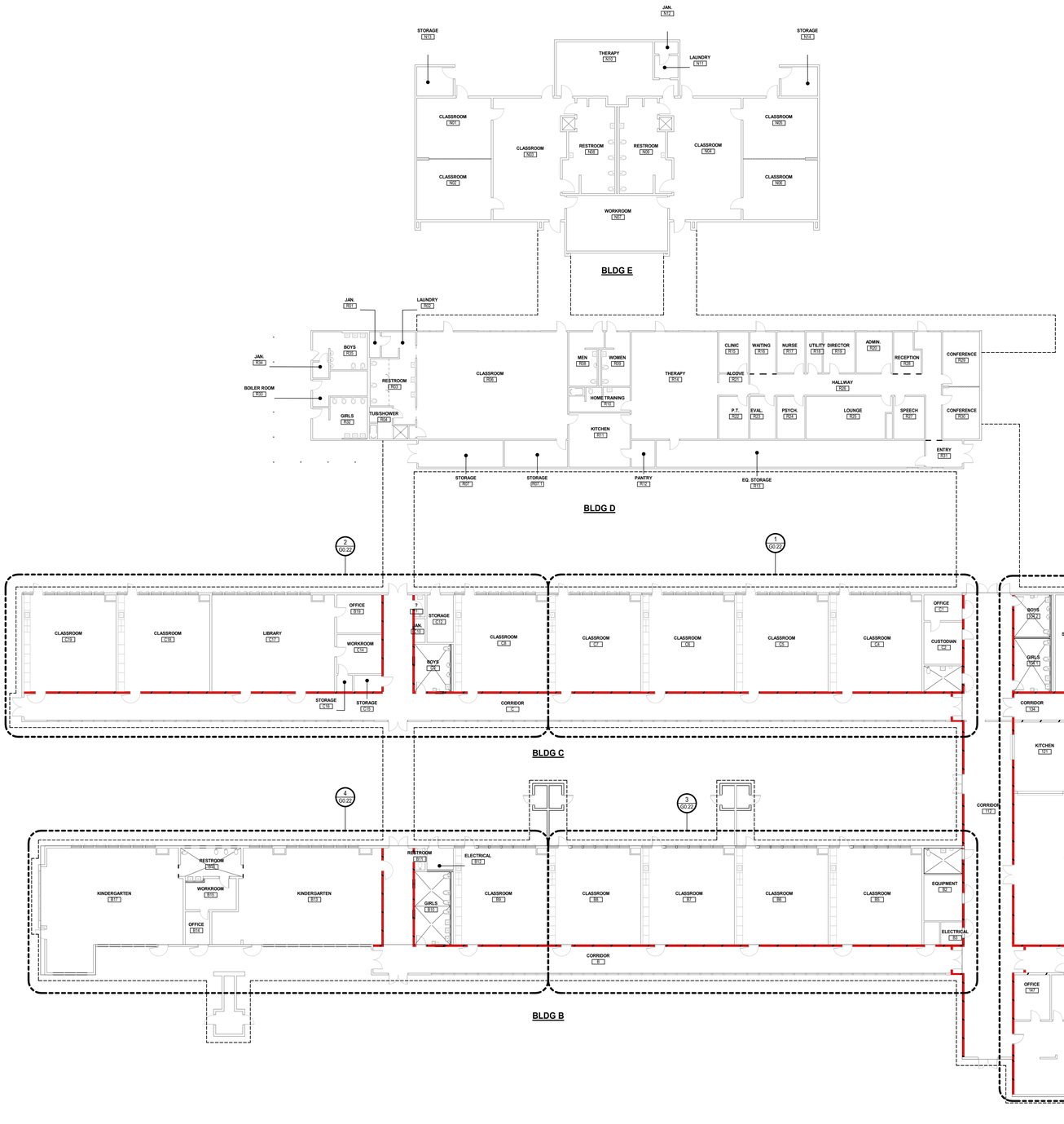
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SITE DATA & CODE REVIEW

G0.10

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G0.20 - OVERALL CODE REVIEW PLAN



1 OVERALL CODE ANALYSIS FLOOR PLAN
SCALE: 1/16" = 1'-0"

LIFE SAFETY SYMBOLS LEGEND

(E) 1-HR FIRE RATED PARTITION

NEW PARTITION

(E) PARTITION

CODE ANALYSIS - PC #04-122188 - LUNCH SHELTER

1. GOVERNING CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

2. OCCUPANCY TYPE: (CBC 302) A-3

3. CONSTRUCTION TYPE: (CBC 602 & TABLE 601) TYPE II-B (NS)

4. BASIC ALLOWABLE HEIGHT & BUILDING AREA: (CBC 504.3, 504.4, 506.2, 508.3)

OCCUPANCY GROUP	ALLOWABLE BLDG AREA (S1)	ALLOWABLE # OF STORIES	ALLOWABLE BLDG HEIGHT
A-3	9,500 SF	2	55'-0"
	0 SF		0'-0"
	0 SF		0'-0"
	0 SF		0'-0"

5. ACTUAL BUILDING DATA:

OCCUPANCY GROUP	ACTUAL BLDG AREA	ACTUAL # OF STORIES	ACTUAL BLDG HEIGHT
A-3	1,800 SF	1	16'-2"
	0 SF		0'-0"
	0 SF		0'-0"
	0 SF		0'-0"
TOTAL:	**1,800 SF**		

6. FIRE RESISTANCE REQUIREMENTS: (CBC TABLE 601)

STRUCTURAL FRAME: 0 HOURS

BEARING WALLS - EXTERIOR: 0 HOURS

NON-BEARING WALLS & PARTITIONS - EXTERIOR: (CBC TABLE 602)

FIRE RATING BASED ON FIRE SEPARATION DISTANCE:
X<5' 1 HOURS
5'≤X<10' 1 HOURS
10'≤X<30' 0 HOURS

ACTUAL SEPARATION DIST: >10'-0" 0 HOURS

NON-BEARING WALLS & PARTITIONS - INTERIOR: 0 HOURS

ROOF CONSTRUCTION: 0 HOURS

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ARCHITECT PBK Architects, Inc.
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1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
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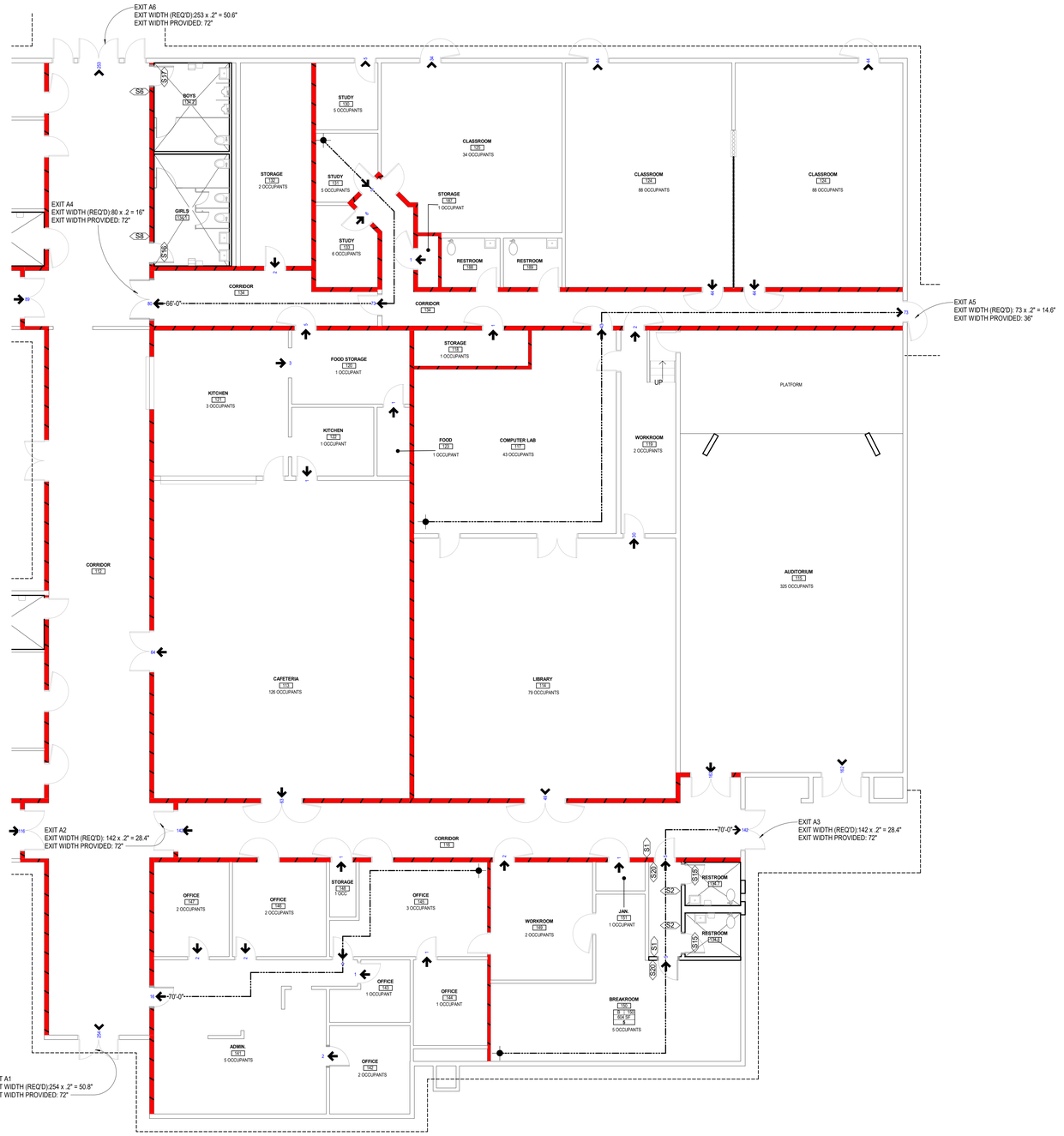
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OVERALL CODE REVIEW PLAN

G0.20

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1 CODE REVIEW PLAN - BLDG.A
SCALE: 1/8" = 1'-0"

LIFE SAFETY SYMBOLS LEGEND

- ROOM NAME / ROOM NUMBER
- COMMON PATH OF EGRESS TRAVEL DISTANCE / EXIT ACCESS TRAVEL DISTANCE
- EXIT ACCESS (# OF OCCUPANTS)
- EXIT (# OF OCCUPANTS)
- 1-HR FIRE RATED PARTITION (ASSEMBLY 15-1.3 PER CBC TABLE 721.1)
- SIGNAGE TAG

REQUIRED WIDTH OF EXIT COMPONENTS:
0.2" PER OCCUPANT
170 MAX OCCUPANTS FOR SINGLE DOOR,
340 MAX FOR PAIR U.O.N.

SIGNAGE LEGEND

S1	ROOM IDENTIFICATION SIGN	7 / G0.40
S2	RESTROOM SIGN	15 / G0.40
S6	BOYS RESTROOM SIGN	13 / G0.40
S8	GIRLS RESTROOM SIGN	14 / G0.40
S15	RESTROOM DOOR SIGN	21 / G0.40
S16	WOMENS / GIRLS DOOR SIGN	20 / G0.40
S17	MENS / BOYS DOOR SIGN	19 / G0.40
S20	EXIT ROUTE SIGN	6 / G0.40

NOTE: REFER TO SHEET G0.40 FOR DETAILS.

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LODI UNIFIED SCHOOL DISTRICT

G	H	J	
D	E	F	
A	B	C	

KEY PLAN — PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
LEONA M. KETTERL
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK
REVISIONS

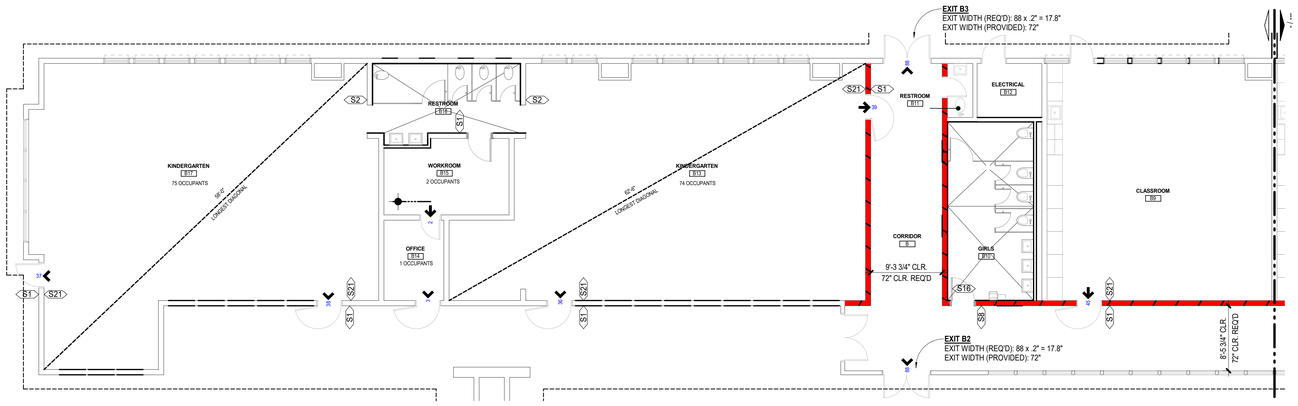
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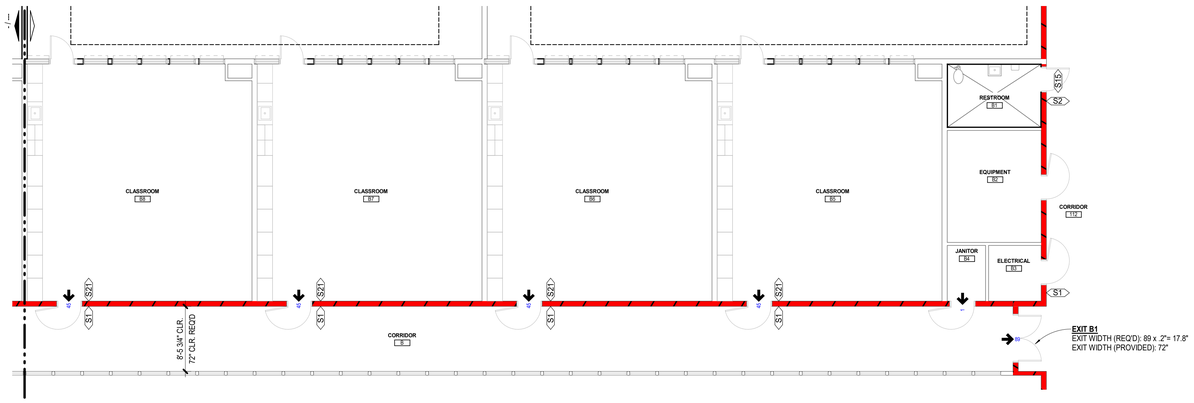
CODE REVIEW PLAN - BLDG.A

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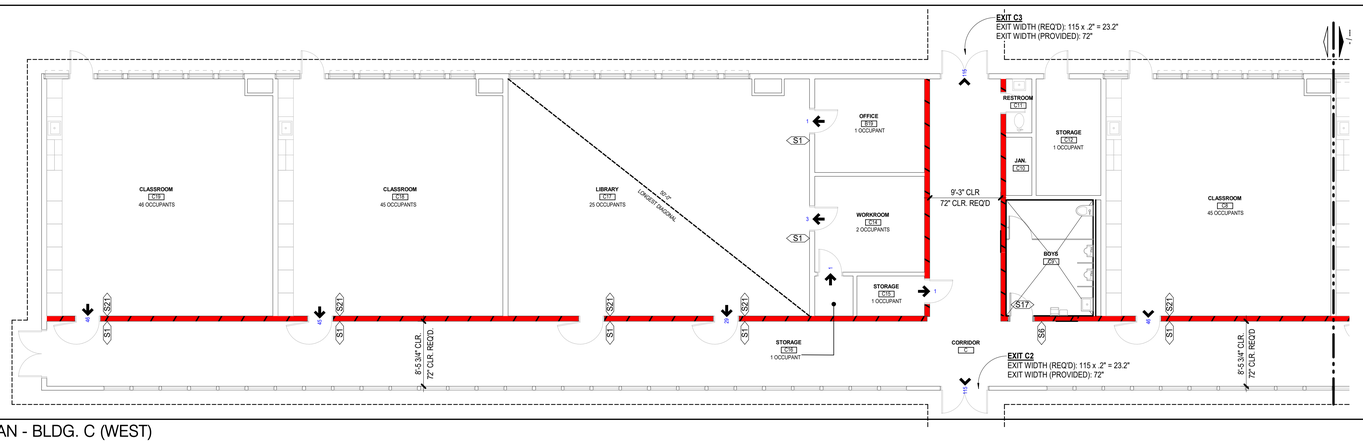
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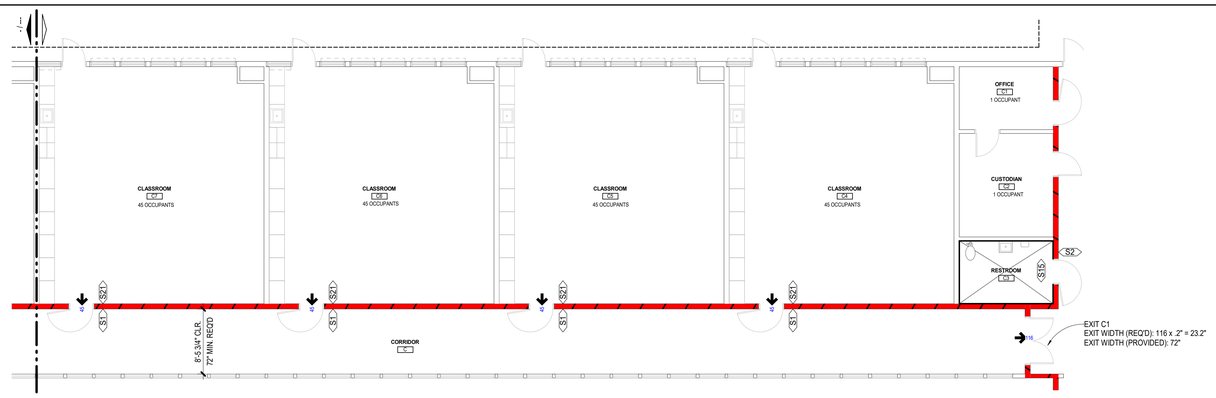
4 CODE REVIEW PLAN - BLDG. B (WEST)
SCALE: 1/8" = 1'-0"



3 CODE REVIEW PLAN - BLDG. B (EAST)
SCALE: 1/8" = 1'-0"



2 CODE REVIEW PLAN - BLDG. C (WEST)
SCALE: 1/8" = 1'-0"



1 CODE REVIEW PLAN - BLDG. C (EAST)
SCALE: 1/8" = 1'-0"

LIFE SAFETY SYMBOLS LEGEND

ROOM NAME / 106 — ROOM NAME / ROOM NUMBER

50'-0" — COMMON PATH OF EGRESS TRAVEL DISTANCE / EXIT ACCESS TRAVEL DISTANCE

43 — EXIT ACCESS (# OF OCCUPANTS)

49 — EXIT (# OF OCCUPANTS)

REQUIRED WIDTH OF EXIT COMPONENTS:
0.2" PER OCCUPANT
170 MAX OCCUPANTS FOR SINGLE DOOR,
340 MAX FOR PAIR U.O.N.

1-HR FIRE RATED PARTITION (ASSEMBLY 15-1.3 PER CBC TABLE 721.1)

XX — SIGNAGE TAG

SIGNAGE LEGEND

S1	ROOM IDENTIFICATION SIGN	7 / G0.40
S2	RESTROOM SIGN	15 / G0.40
S6	BOYS RESTROOM SIGN	13 / G0.40
S8	GIRLS RESTROOM SIGN	14 / G0.40
S15	RESTROOM DOOR SIGN	21 / G0.40
S16	WOMENS / GIRLS DOOR SIGN	20 / G0.40
S17	MENS / BOYS DOOR SIGN	19 / G0.40
S20	EXIT ROUTE SIGN	5 / G0.40

NOTE: REFER TO SHEET G0.40 FOR DETAILS.

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DATE: 12/19/2024

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DSA APP No. 02-121905

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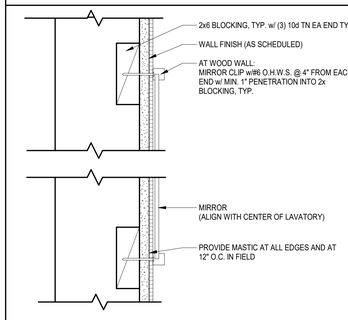
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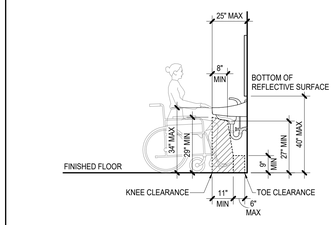
CODE REVIEW PLANS - BLDGS.B & C

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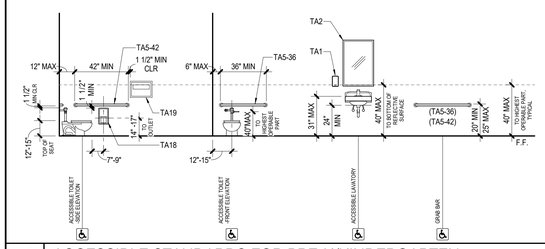
G0.22



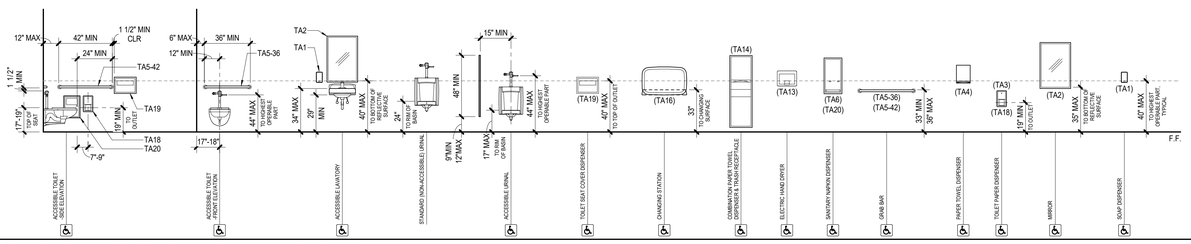
14 MIRROR ATTACHMENT
SCALE: 3" = 1'-0"



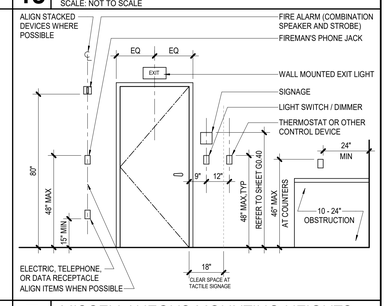
13 ACCESSIBLE LAVATORY
SCALE: NOT TO SCALE



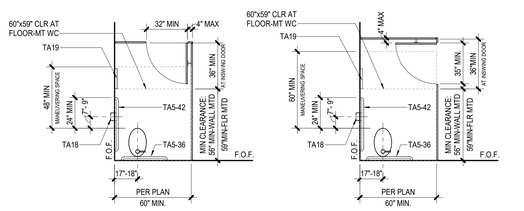
12 ACCESSIBLE STANDARDS FOR PRE-K/KINDERGARTEN
SCALE: 1/4" = 1'-0"



10 ACCESSIBLE STANDARDS FOR TOILET FACILITIES
SCALE: 1/4" = 1'-0"



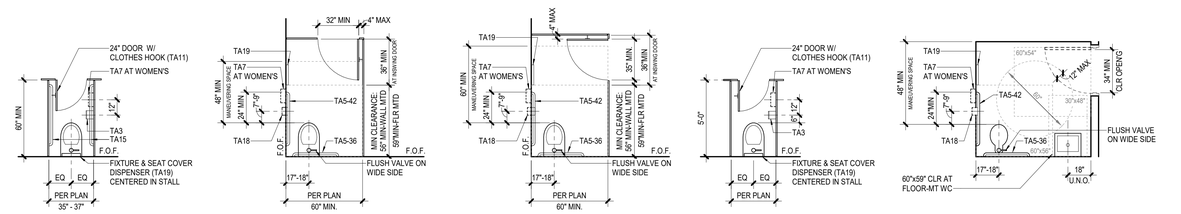
7 MISCELLANEOUS MOUNTING HEIGHTS
SCALE: NOT TO SCALE



ACCESSIBLE STALLS - FRONT ENTRY **ACCESSIBLE STALLS - SIDE ENTRY**

NOTE:
DIMENSIONS FOR ACCESSIBLE STALLS REPRESENT THE MINIMUM REQUIREMENTS.
ACTUAL INSTALLATION DIMENSIONS ARE SHOWN ON THE ENLARGED PLANS

6 ACCESSIBLE STANDARDS FOR PRE-K/KINDERGARTEN
SCALE: 1/4" = 1'-0"



AMBULATORY ACCESSIBLE STALLS **ACCESSIBLE STALLS - FRONT ENTRY** **ACCESSIBLE STALLS - SIDE ENTRY** **STANDARD STALLS** **SINGLE ACCOMODATION RESTROOM**

NOTES:
1. ALL DIMENSIONS TO FACE OF FINISHED SURFACE U.N.O.
2. DIMENSIONS FOR STANDARD STALLS SHALL BE USED ONLY WHERE NOT NOTED ON OTHER DRAWINGS
3. DIMENSIONS FOR ACCESSIBLE/AMBULATORY STALLS REPRESENT THE MINIMUM REQUIREMENTS. ACTUAL INSTALLATION DIMENSIONS ARE SHOWN ON THE ENLARGED PLANS

4 ACCESSIBLE STANDARDS FOR TOILET FACILITIES
SCALE: 1/4" = 1'-0"

LABEL	DESCRIPTION	REMARKS
TA1	SOAP DISPENSER	
TA2	MIRROR (24"x36" U.N.O.)	NOTE 5
TA3	TOILET PAPER DISPENSER	
TA4	PAPER TOWEL DISPENSER	
TA5	GRAB BARS AT TYPICAL ACCESSIBLE TOILET STALLS	
TA6	SANITARY NAPKIN DISPENSER	
TA7	SANITARY NAPKIN DISPOSAL	
TA11	CLOTHES HOOK	NOTE 6
TA17	TRASH RECEPTACLE	
TA18	TOILET PAPER DISPENSER, SEMI-RECESSED	
TA19	TOILET SEAT COVER DISPENSER	
TA20	SANITARY NAPKIN DISPOSAL, SEMI-RECESSED	

NOTES:

1. REFER TO PLANS FOR LOCATIONS.
2. ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.
3. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
4. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ADA.
5. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE. VERIFY ALL PATTERNS WITH ARCHITECT.
6. ALIGN MIRROR ON CENTER OF LAVATORY U.N.O.
7. ONE HOOK INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER, MOUNTED AT 48" MAX AFF

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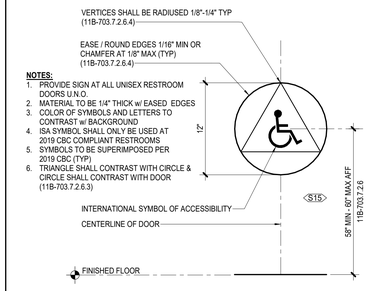
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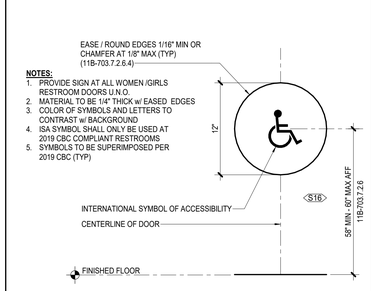
ACCESSIBILITY GUIDELINES

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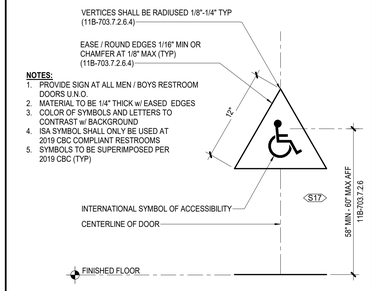
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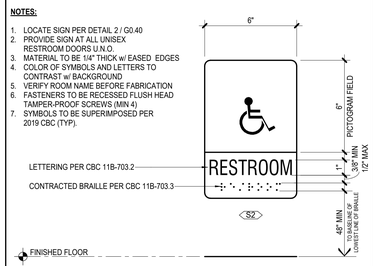
21 RESTROOM DOOR SIGNAGE
SCALE: 1 1/2" = 1'-0"



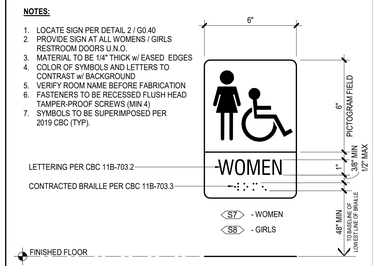
20 WOMEN / GIRLS DOOR SIGNAGE
SCALE: 1 1/2" = 1'-0"



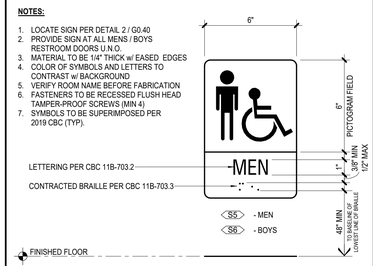
19 MEN / BOYS DOOR SIGNAGE
SCALE: 1 1/2" = 1'-0"



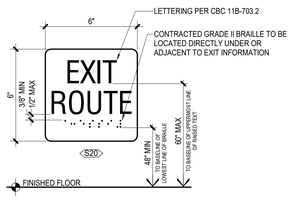
15 RESTROOM SIGN
SCALE: 3" = 1'-0"

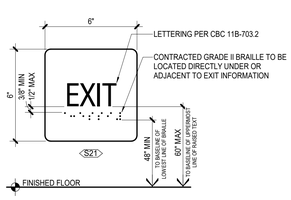


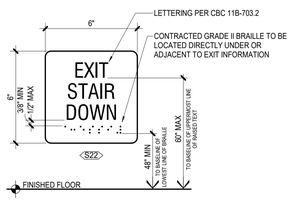
14 WOMEN / GIRLS RESTROOM SIGN
SCALE: 3" = 1'-0"

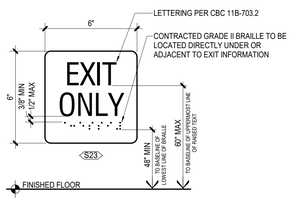


13 MEN / BOYS RESTROOM SIGN
SCALE: 3" = 1'-0"









NOTES:
1. SIGN MATERIAL SHALL BE 1/4" THICK ACRYLIC PLASTIC WITH EASED EDGES AND 1/32" RAISED BORDER, GRAPHIC AND LETTERS. PROVIDE MECHANICAL MOUNTING WITH VANDAL RESISTANT FASTENERS.
2. SEE FLOOR PLANS FOR LOCATION
3. LOCATE SIGN PER DETAIL 2 / G0.40
4. COLOR OF LETTERS TO CONTRAST w/ BACKGROUND
5. SIGN COLOR TO CONTRAST w/ BACKGROUND COLOR OF WALL SURFACE
6. VERIFY ROOM NAME BEFORE FABRICATION
7. FASTENERS TO BE RECESSED FLUSH HEAD TAMPER-PROOF SCREWS (MIN 4)
8. EACH GRADE - LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY "EXIT"
9. EACH DOOR AT STAIRWAYS LEADING TO GRADE- LEVEL EXTERIOR EXIT SHALL BE IDENTIFIED BY "EXIT STAIR DOWN"
10. EXIT DOORS LEADING TO EXIT BY MEANS OF AN EXIT ENCLOSURE, EXIT PASSAGEWAY, OR EXTERIOR BALCONY SHALL BE LABELED BY "EXIT ROUTE"
11. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY "TO EXIT".
12. INCREASE SIZE OF SIGN TO ACCOMMODATE ADDITIONAL TEXT AS NEEDED.

6 TACTILE EXIT SIGNAGE
SCALE: 3" = 1'-0"

CHARACTER REQUIREMENTS:

A. CHARACTER REQUIREMENTS FOR ALL SIGNS PER 2016 CBC 11B-703:

1. CHARACTERS SHALL BE UPPERCASE.
2. CHARACTERS SHALL BE SANS SERIF . CHARTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
3. CHARACTER SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
4. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.
5. TEXT SHALL BE IN HORIZONTAL FORMAT.
6. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH AND CONTRAST WITH ONE ANOTHER

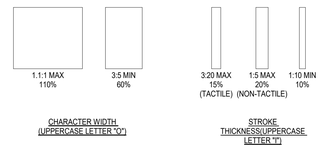
B. RAISED CHARACTER REQUIREMENTS FOR SIGNS WITH BRAILLE PER 2016 CBC 11B-703.2:

1. RAISED CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE
2. RAISED CHARACTERS SHALL BE 1/32 INCH MIN ABOVE BACKGROUND.
3. RAISED CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8 INCH MINIMUM AND 2 INCHES MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. CHARACTER SPACING BETWEEN INDIVIDUAL RAISED LETTERS SHALL BE 1/8 INCH MINIMUM AND FOUR (4) TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM.

C. VISUAL CHARACTER REQUIREMENTS FOR SIGNS WITHOUT BRAILLE PER 2016 CBC 11B-703.5:

1. VISUAL CHARACTERS SHALL COMPLY WITH REQUIREMENTS NOTED IN PARAGRAPH 'A' ABOVE.
2. MINIMUM CHARACTER HEIGHT SHALL CONFORM TO 2016 CBC TABLE 11B-703.5.5 BUT IN NO CASE SHALL BE LESS THAN 5/8 INCH.
3. HEIGHT FROM FINISH FLOOR SHALL BE NO LESS THAN 40 INCHES.
4. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
5. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS.



CHARACTER WIDTH (UPPERCASE LETTER "O")

STROKE THICKNESS(UPPERCASE LETTER "I")

4 CHARACTER REQUIREMENTS
SCALE: 1" = 1'-0"

BRAILLE REQUIREMENTS PER 2016 CBC 11B-703.3:

1. CONTRACTED CALIFORNIA (GRADE 2) BRAILLE COMPLYING WITH SECTIONS 11B-703.3 AND 11B-703.4 SHALL BE USED WHEREVER BRAILLE IS REQUIRED
2. DOT BASE DIAMETER = 0.059 TO 0.063 INCHES

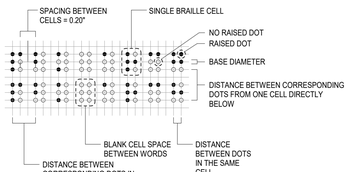


FIGURE 11B-703.3.1 - BRAILLE MEASUREMENT

BRAILLE DIMENSION AND CAPITALIZATION REQUIREMENTS PER 2016 CBC 11B-703.3.1:

1. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1
2. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITITIALS, AND ACRONYMS.

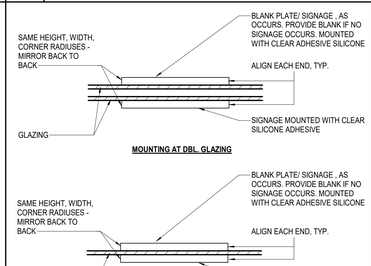
TABLE 11B-703.3.1 BRAILLE DIMENSIONS

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5 mm) to 0.063 (1.6 mm)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL[1]	0.100 (2.5 mm)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS [1]	0.300 (7.6 mm)
DOT HEIGHT	0.025 (0.6 mm) to 0.037 (0.9 mm)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395 (10 mm) to 0.400 (10.2 mm)
1. MEASURED CENTER TO CENTER.	

11B-703.3.2 - POSITION:

1. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED.
2. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT.
3. BRAILLE SHALL BE SEPARATED 3/8 INCH (9.5 mm) MINIMUM AND 1/2 INCH (12.7 mm) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH (9.5 mm) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

3 BRAILLE STANDARDS FOR SIGNAGE
SCALE: 6" = 1'-0"

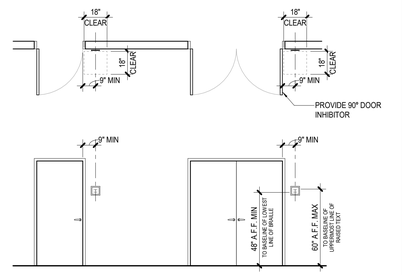


8 SIGNAGE AT GLAZING
SCALE: 3" = 1'-0"

7 ROOM IDENTIFICATION SIGN
SCALE: 3" = 1'-0"

NOTES:

1. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE WILL IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL PREFERABLY ON THE RIGHT. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3'-0" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING IS LIMITED TO 90 DEGREE MOUNT SIGN 6" FROM EDGE OF DOOR. FOR PAIRS OF DOORS WHERE DOOR SWING EXCEEDS 90 DEGREES MOUNT SIGN DOOR WIDTH PLUS 9" FROM EDGE OF DOOR.
2. MOUNTING HEIGHT SHALL BE 48" MIN. TO BOTTOM OF BRAILLE + 60" MAX. TO BOTTOM OF HIGHEST ROW OF RAISED CHARACTERS (11B-703.4.1).
3. FOR SIGNAGE AT DOUBLE DOORS, TACTILE SIGN TO BE MOUNTED ON THE LEAF SIDE OF THE RIGHT HAND DOOR.



2 DOOR SIGNAGE LOCATIONS
SCALE: 1/4" = 1'-0"

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DATE: 12/19/2024

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Folsom, CA 95630-8315
916-355-9922

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
DSA APP No. 02-121905

LODI UNIFIED SCHOOL DISTRICT

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A	B	C

KEY PLAN
PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
LEONA M. KETTERL
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK

REVISIONS		
#	DESCRIPTION	DATE

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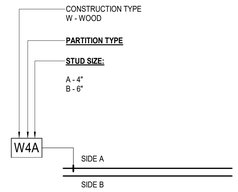
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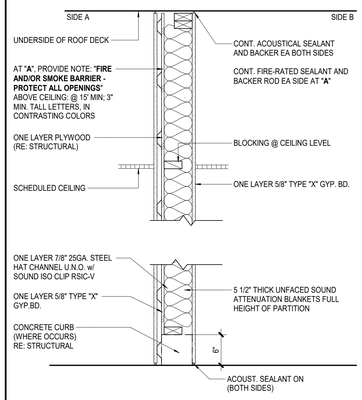
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GENERAL INTERIOR PARTITION NOTES

1. REFER TO FLOOR PLANS FOR REFERENCE MARKS INDICATING APPLICABLE PARTITION TYPES.
2. REFER TO FINISH SCHEDULES FOR APPLIED FINISHES TO BOTH SIDES OF WALLS.
3. PARTITION TYPE TAGS IDENTIFIED ON FLOOR PLANS WILL INDICATE SIDE A OF PARTITION.
5. CONSULT ARCH. FOR ANY DISCREPANCIES OR QUESTIONS REGARDING PARTITIONS PRIOR TO INSTALLATION.
6. RIGIDLY BRACE ALL DOOR FRAMES AT THE HEAD, HINGE, AND STRIKE SIDES, RIGIDLY BRACE ALL WINDOW FRAMES AT THE HEAD, JAMBS, AND SILL.
7. FIRE RATING AND CBC ASSEMBLY REFERENCE APPLY ONLY TO WALLS DESIGNATED AS FIRE RATED ON THE FLOOR PLANS.
8. LOCATE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AS FOLLOWS
   a. PARTITIONS OR FURRING EXCEEDING 30'-0" SPANS HORIZ. AND OR VERT.
   b. WHERE A PARTITION ABUTS A STRUCTURAL ELEMENT OR DISSIMILAR WALL
   c. AT CHANGES WITHIN PLANE OF PARTITION
   d. AT EXPANSION JOINTS
   e. AT BOTH JAMBS OF INTERIOR AND EXTERIOR DOOR FRAMES AND WINDOW FRAMES, ABOVE AND BELOW FOR FULL HEIGHT OF WALL
9. FIRE-RATED PARTITIONS
   a. REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR DETAILED DESCRIPTIONS OF FIRE-RATED PARTITIONS
   b. PROVIDE TYPE "X" FIRE RESISTIVE GYPSUM BOARD, 5/8" THICK U.N.O.
   c. FILL ALL GAPS AND DECK VOIDS WITH CONT. FIRESAFING INSUL.
   d. SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. FIRE-RATED SEALANT
   e. PENTRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTIONS 714.3 & 714.4
   f. WHEN WALLS AND CEILINGS ARE REQUIRED TO BE FIRE-RESISTIVE OR NONCOMBUSTIBLE, THE FINISH MATERIAL SHALL BE APPLIED DIRECTLY AGAINST SUCH FIRE-RESISTIVE OR NONCOMUSTIBLE CONSTRUCTION OR TO FURRING STRIPS NOT EXCEEDING 1-3/4 INCHES. THE FURRED SPACE SHALL BE FILLED WITH INORGANIC OR CLASS A MATERIAL OR FIRE BLOCKED NOT TO EXCEED 8 FEET IN ANY DIRECTION.
10. PARTITIONS WITH SOUND ATTENUATION BATT INSUL. BLANKETS
    a. PROVIDE FULL THICK SOUND ATTENUATION BATT INSUL. BLANKETS FULL HEIGHT OF PARTITION U.N.O.
    b. FILL ALL GAPS AND DECK VOIDS WITH CONT. SOUND ATTENUATION SAFING INSUL.
    c. TAPE AND BED OR CAULK ALL JOINTS BETWEEN GYPSUM BOARD PANELS
    d. SEAL BOTTOM OF PARTITION ON BOTH SIDES, PARTITION PERIMETER, AND ALL PENETRATIONS WITH CONT. ACOUSTICAL SEALANT (USE SEALANT INDICATED IN ITEM ABOVE, IN LIEU OF ACOUSTICAL SEALANT, AT PARTITIONS DESIGNATED AS FIRE-RATED PARTITIONS)
11. REFER TO STRUCTRUAL FOR BEARING WALL AND CONCRETE CURB LOCATIONS.

INTERIOR PARTITION TYPE SYMBOL

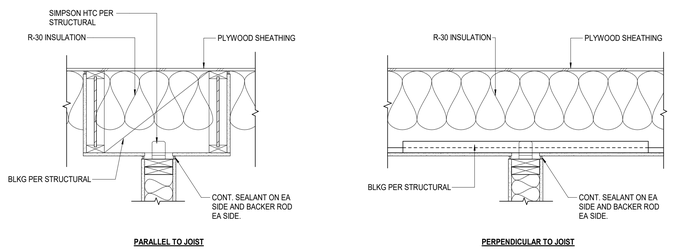




NOTE:
REFER TO SHEET A10.40 FOR BACKING REQUIREMENTS ON CHANNEL SIDE OF WALL.

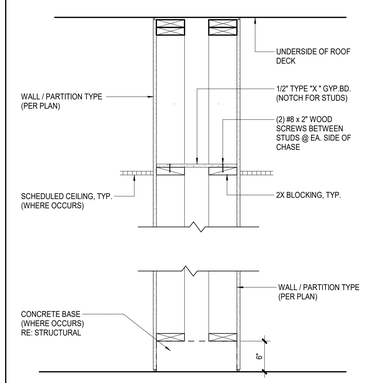
TYPE	DESCRIPTION	STC RATING	FIRE RATING
W7B	2x6 WOOD STUD TO DECK @ 16" OC	NR	N/A

8 PARTITION TYPE W7
SCALE: 1" = 1'-0"

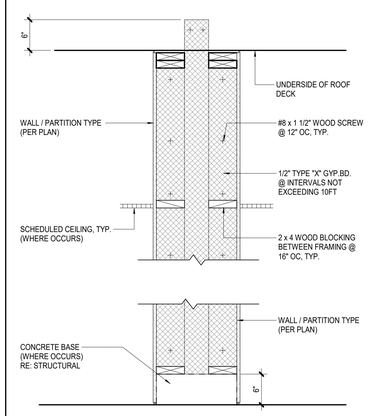


NOTES:
1. FOR PARTITION TOP BRACING SEE SHEET S0.61
2. NON BEARING PARTITION DETAILS @ SAWN LUMBER SIMILAR

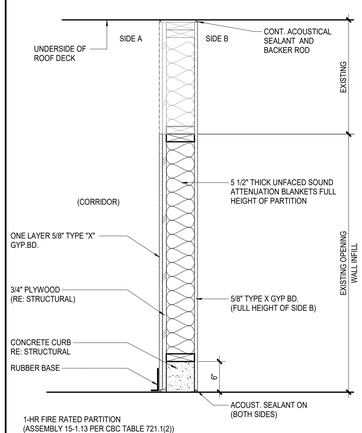
9 NON BEARING PARTITION DETAILS @ WEB JOIST
SCALE: 1" = 1'-0"



7 VERTICAL FIREBLOCKING
SCALE: 1" = 1'-0"

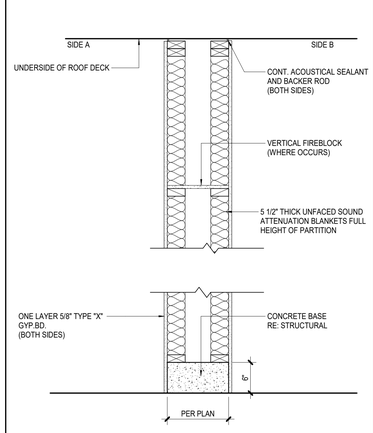


6 HORIZONTAL FIREBLOCKING
SCALE: 1" = 1'-0"



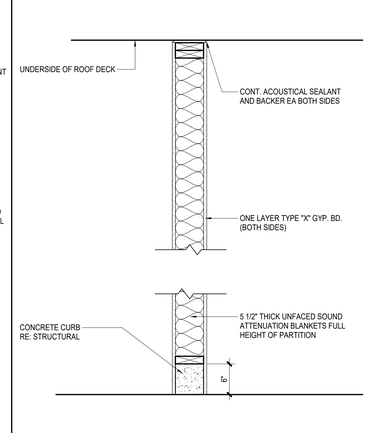
TYPE	DESCRIPTION	STC RATING	FIRE RATING
W5B.1	2x6 WOOD STUD INTERIOR OPENING INFILL	NR	1HR

5 PARTITION TYPE W5
SCALE: 1" = 1'-0"



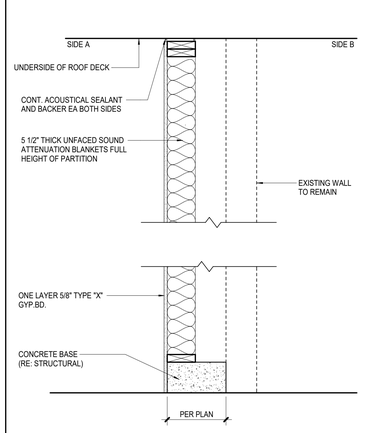
TYPE	DESCRIPTION	STC RATING	FIRE RATING
W4A	(2) 2x4 WOOD STUD TO DECK @ 16" OC	NR	N/A

4 PARTITION TYPE W4
SCALE: 1" = 1'-0"



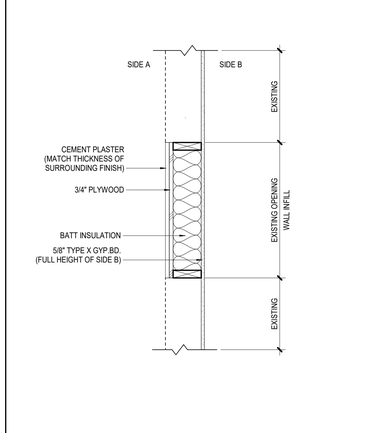
TYPE	DESCRIPTION	STC RATING	FIRE RATING
W3A	2x4 WOOD STUD TO DECK @ 16" OC	NR	N/A

3 PARTITION TYPE W3
SCALE: 1" = 1'-0"



TYPE	DESCRIPTION	STC RATING	FIRE RATING
W2A	2x4 WOOD STUD TO DECK @ 16" OC	NR	N/A

2 PARTITION TYPE W2
SCALE: 1" = 1'-0"



TYPE	DESCRIPTION	STC RATING	FIRE RATING
W1B	2x6 WOOD STUD EXTERIOR OPENING INFILL	NR	N/A

1 PARTITION TYPE W1
SCALE: 1" = 1'-0"

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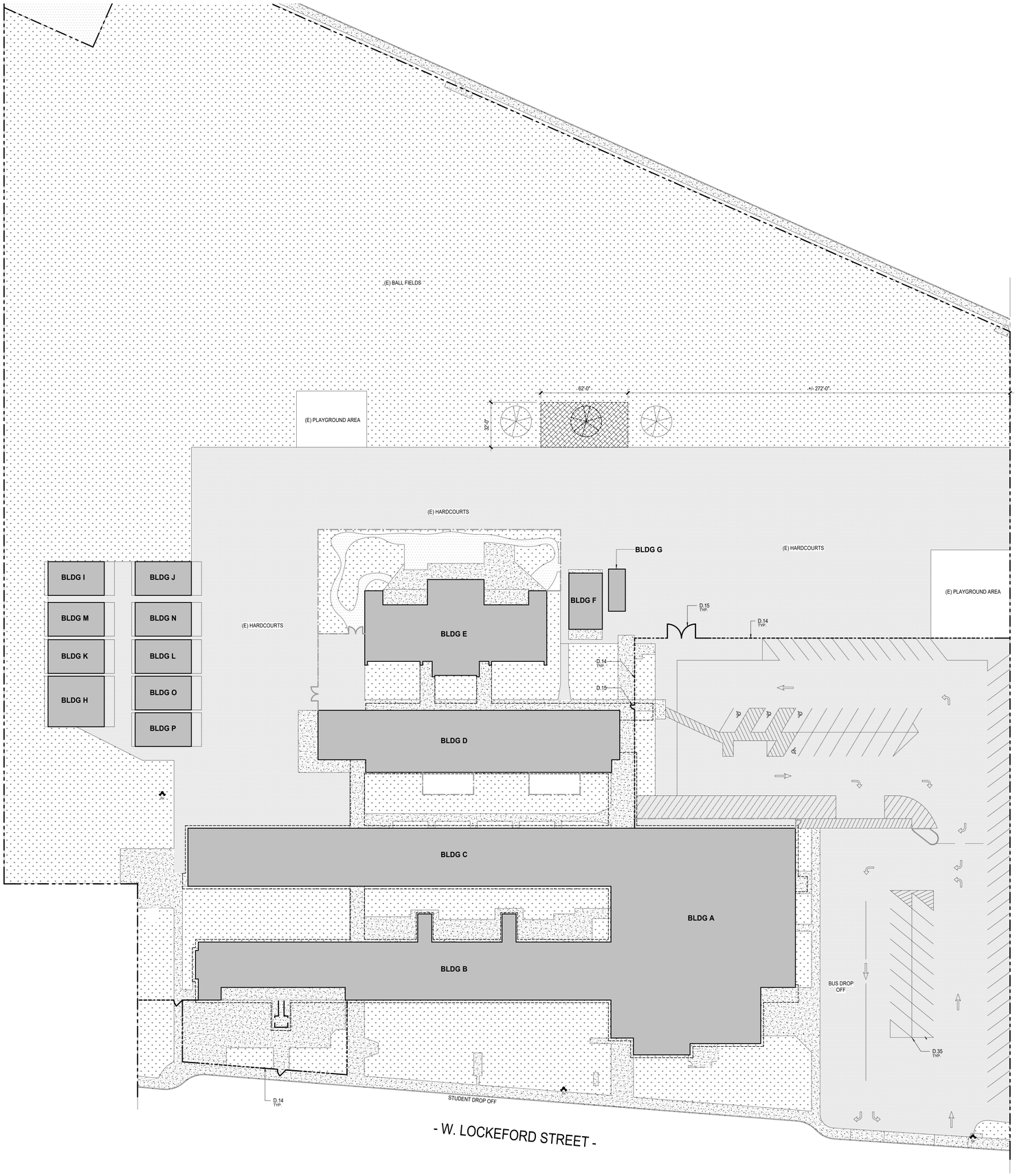
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INTERIOR PARTITION TYPES

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D1.01 - OVERALL DEMOLITION SITE PLAN



1 OVERALL DEMOLITION SITE PLAN
SCALE: 1" = 30'-0"

DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCTION SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
24. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMOLITION LEGEND

- (E) BUILDING IN SCOPE OF WORK
- (E) ITEM TO BE DEMOLISHED
- (E) CONCRETE PAVING TO REMAIN
- (E) ASPHALT PAVING
- (E) LANDSCAPED AREA
- NEW CHAIN LINK FENCING
- (E) CHAIN LINK FENCING TO BE REMOVED
- (E) CHAIN LINK FENCING
- (E) PROPERTY LINE
- (E) TREE TO REMAIN
- (E) TREE TO BE REMOVED

DEMOLITION KEYNOTES

D.14 REMOVE (E) CHAIN LINK FENCING
D.15 REMOVE (E) CHAIN LINK FENCE GATE
D.35 REMOVE (E) TOW AWAY SIGNAGE

SHEET NOTES

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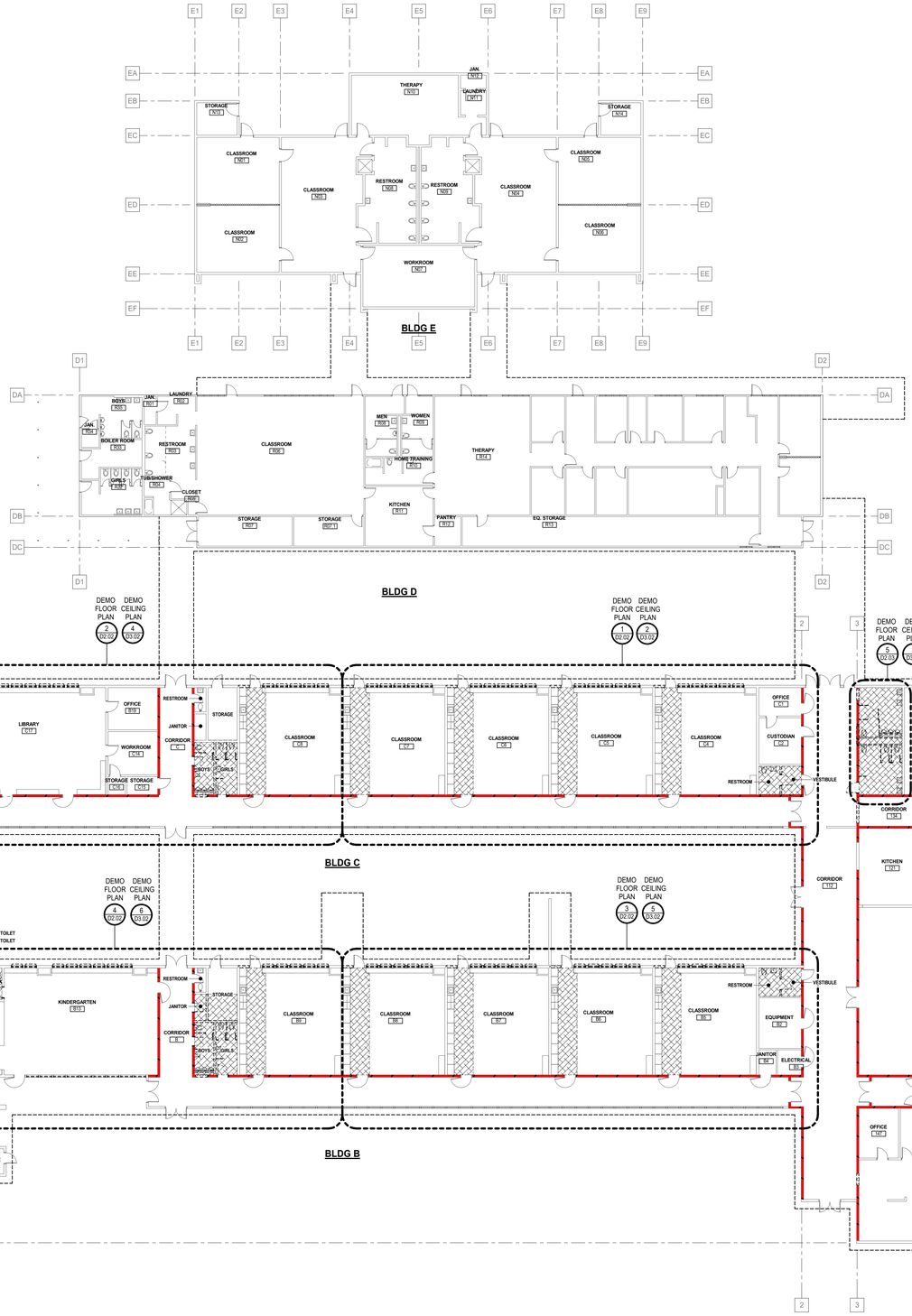
OVERALL DEMOLITION SITE PLAN

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D1.01

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D2.01 - OVERALL DEMOLITION FLOOR PLAN



GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
4. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
5. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
6. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
7. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
8. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
9. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
10. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
11. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
12. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES.
13. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
14. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
15. PATCH ALL FLOORS, WALLS, AND CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
16. WHERE EXISTING FLOOR FINISH IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
17. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.
18. FILL ALL INTERIOR AND EXTERIOR HOLES, PENETRATIONS, OR OPENINGS LEFT EXPOSED FROM THE DEMOLITION OF METAL LOUVERS, ELECTRICAL CONDUIT, HVAC OR PLUMBING. PAINT TO MATCH SURROUNDING FINISH.

1 OVERALL DEMOLITION FLOOR PLAN
SCALE: 1/16" = 1'-0"

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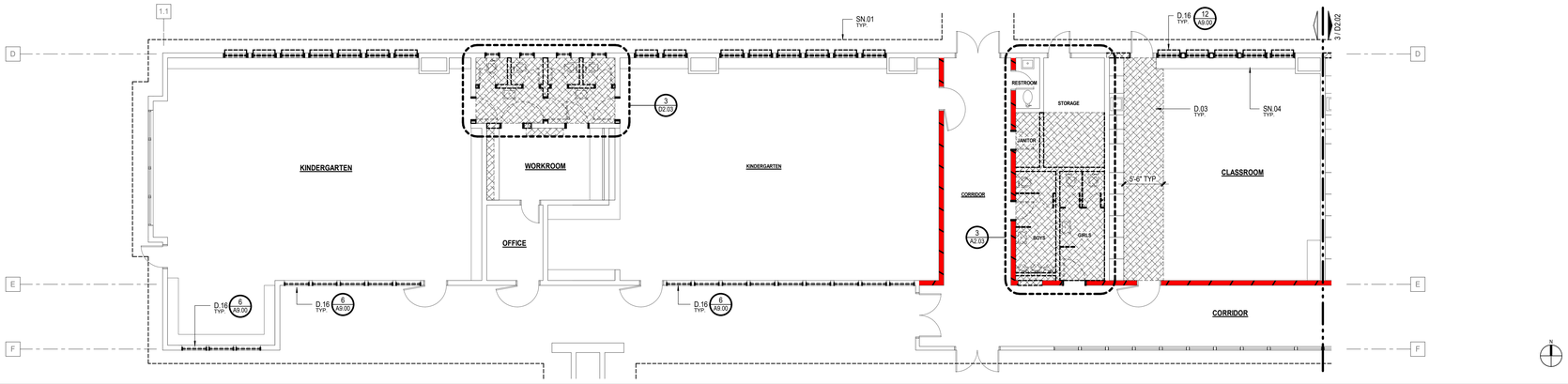
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OVERALL DEMOLITION FLOOR PLAN

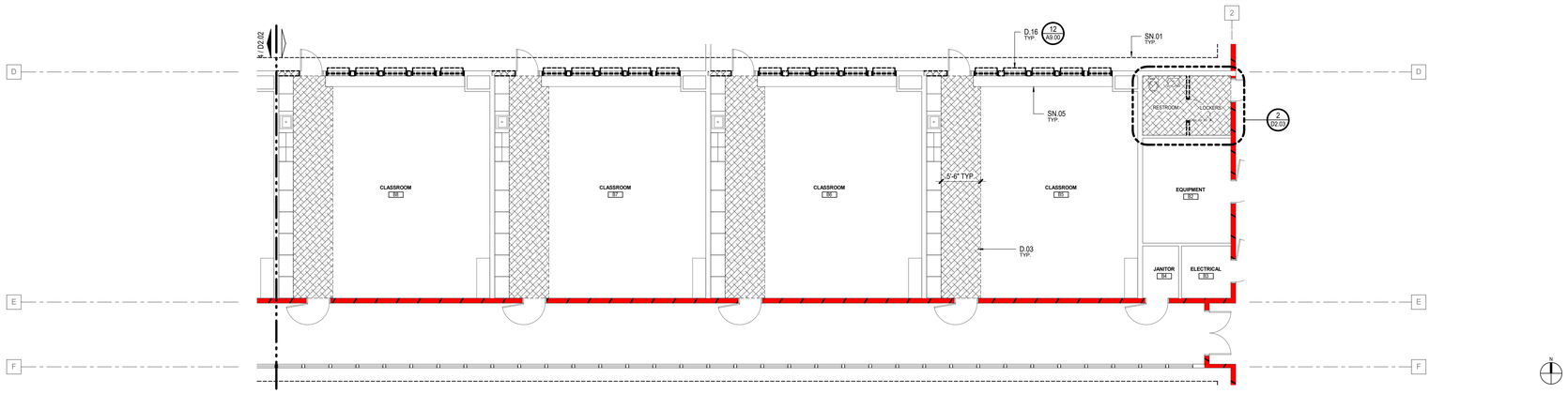
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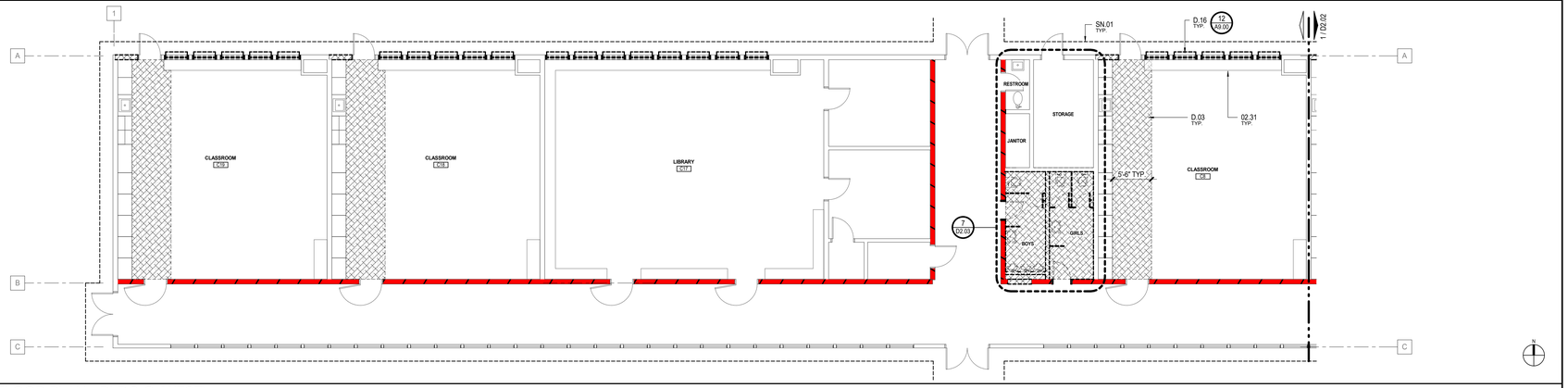
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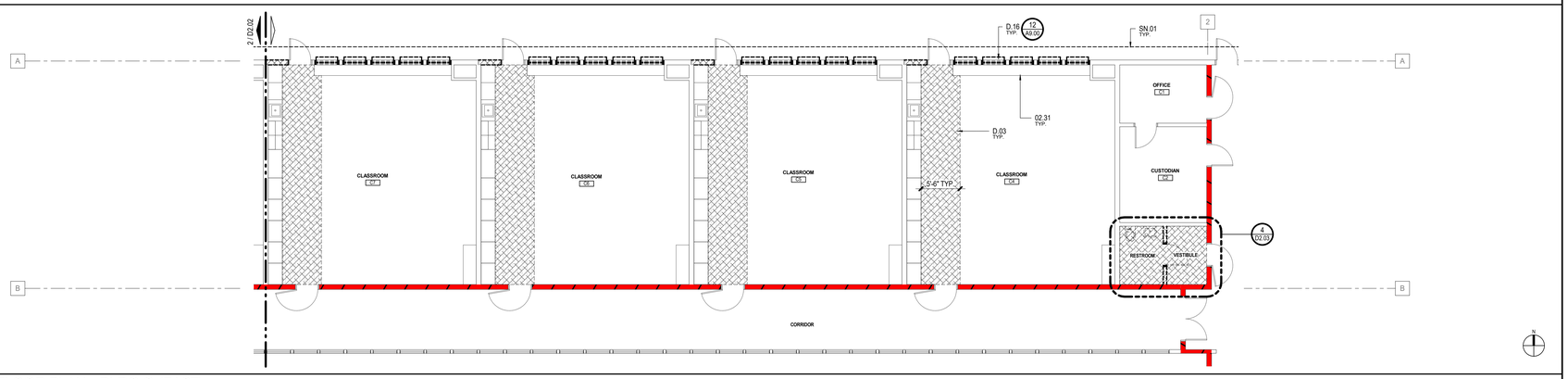
4 DEMOLITION FLOOR PLAN - BLDG.B (WEST)
SCALE: 1/8" = 1'-0"



3 DEMOLITION FLOOR PLAN - BLDG.B (EAST)
SCALE: 1/8" = 1'-0"



2 DEMOLITION FLOOR PLAN - BLDG.C (WEST)
SCALE: 1/8" = 1'-0"



1 DEMOLITION FLOOR PLAN - BLDG.C (EAST)
SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
2. CONTRACTOR SHALL VERIFY EXISTING BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
4. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
5. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SCOPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
6. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
7. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
8. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
9. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
10. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
11. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
12. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES.
13. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS
14. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
15. PATCH ALL FLOORS, WALLS, AND CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
16. WHERE EXISTING FLOOR FINISH IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
17. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.
18. FILL ALL INTERIOR AND EXTERIOR HOLES, PENETRATIONS, OR OPENINGS LEFT EXPOSED FROM THE DEMOLITION OF METAL LOUVERS, ELECTRICAL CONDUIT, HVAC OR PLUMBING. PAINT TO MATCH SURROUNDING FINISH.

DEMOLITION LEGEND

- EXISTING ITEM / AREA TO DEMOLISHED
- EXISTING CEILING TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING WALL AND CONCRETE CURB TO DEMOLISHED
- EXISTING WALL FINISHES UP TO CEILING TO BE DEMOLISHED, EXISTING FRAMING TO REMAIN
- 1-HR FIRE RATED PARTITION (ASSEMBLY 15-1.3 PER CBC TABLE 721.1)

DEMOLITION KEYNOTES

D.03 REMOVE (E) LINOLEUM FLOORING
D.16 REMOVE (E) WINDOW AND TRIM

SHEET NOTES

SN.01 OUTLINE OF ROOF
SN.04 EXISTING FLOOR TO REMAIN
SN.05 EXISTING CASEWORK TO REMAIN

Not for permitting or construction

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KEY PLAN — PLAN NORTH — TRUE NORTH

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REVISIONS

#	DESCRIPTION	DATE

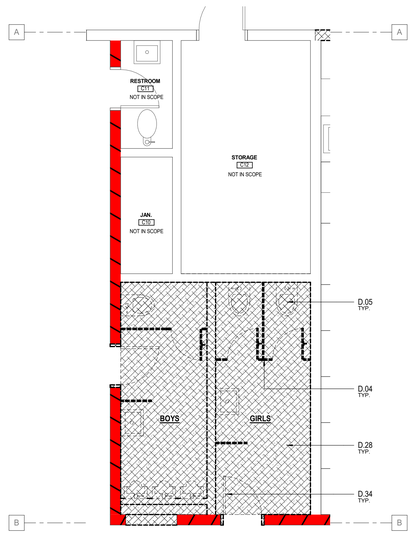
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DEMOLITION FLOOR PLANS

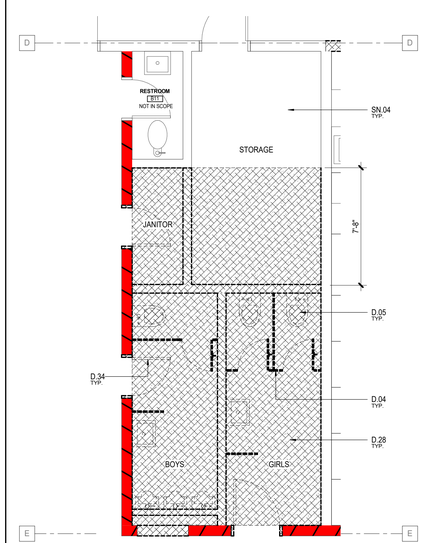
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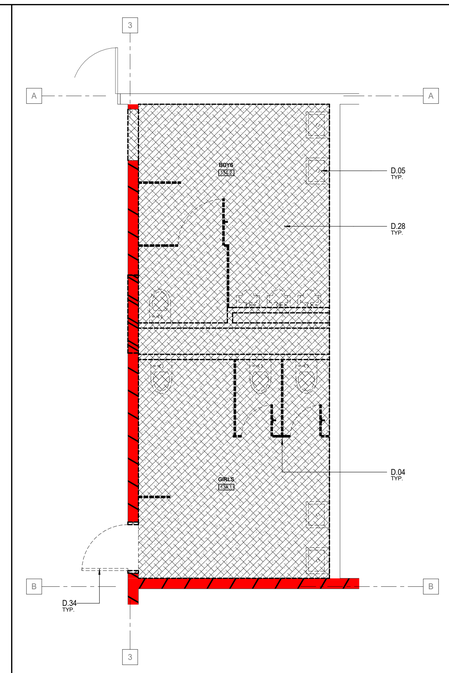
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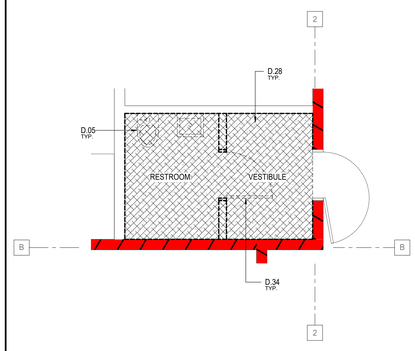
7 ENLARGED DEMO FLOOR PLAN (BLDG.C WEST)
SCALE: 1/4" = 1'-0"



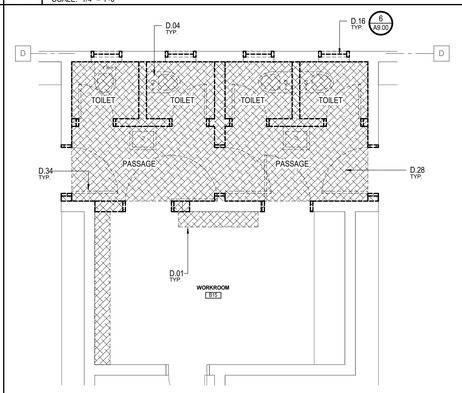
6 ENLARGED DEMO FLOOR PLAN (BLDG.B WEST)
SCALE: 1/4" = 1'-0"



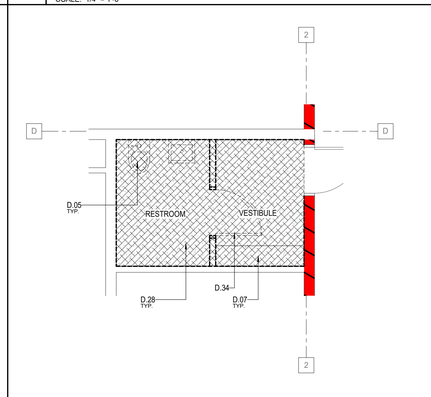
5 ENLARGED DEMO FLOOR PLAN (BLDG.A WEST)
SCALE: 1/4" = 1'-0"



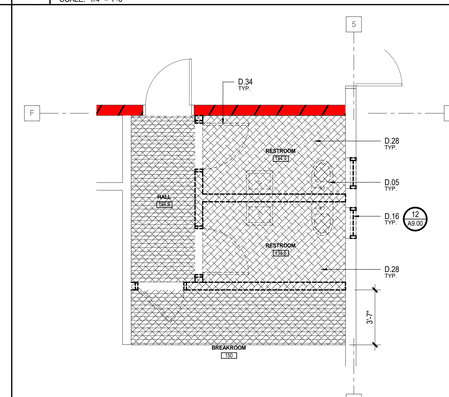
4 ENLARGED DEMO FLOOR PLAN (BLDG.C EAST)
SCALE: 1/4" = 1'-0"



3 ENLARGED DEMO FLOOR PLAN (BLDG.B KINDER)
SCALE: 1/4" = 1'-0"



2 ENLARGED DEMO FLOOR PLAN (BLDG.B EAST)
SCALE: 1/4" = 1'-0"



1 ENLARGED DEMO FLOOR PLAN (BLDG.A EAST)
SCALE: 1/4" = 1'-0"

DEMOLITION GENERAL NOTES

1. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION.
2. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.
3. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
4. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
5. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVICES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXITISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
6. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
7. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
8. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
9. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT. RELOCATE POWER PER MEPT DRAWINGS.
10. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
11. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
12. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
13. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMOLITION LEGEND

- EXISTING ITEM / AREA TO DEMOLISHED
- EXISTING CEILING TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING WALL AND CONCRETE CURB TO DEMOLISHED
- EXISTING WALL FINISHES UP TO CEILING TO BE DEMOLISHED, EXISTING FRAMING TO REMAIN
- 1-HR FIRE RATED PARTITION (ASSEMBLY 15-1.3 PER CBC TABLE 721.1)

DEMOLITION KEYNOTES

D.01	REMOVE (E) CASEWORK, TYP.
D.04	REMOVE (E) TOILET PARTITIONS AND TOILET ACCESSORIES, TYP.
D.05	REMOVE (E) WATER CLOSET, LAVATORY, AND URINAL,TYP.
D.07	REMOVE (E) FURNITURE / EQUIPMENT
D.16	REMOVE (E) WINDOW AND TRIM
D.28	REMOVE (E) FLOOR FINISH AND CONCRETE SLAB
D.34	REMOVE (E) DOOR, DOOR FRAME, AND TRIM.

SHEET NOTES

SN.04 EXISTING FLOOR TO REMAIN

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PBK

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LODI UNIFIED SCHOOL DISTRICT

G H J
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KEY PLAN
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REN. 09-30-25
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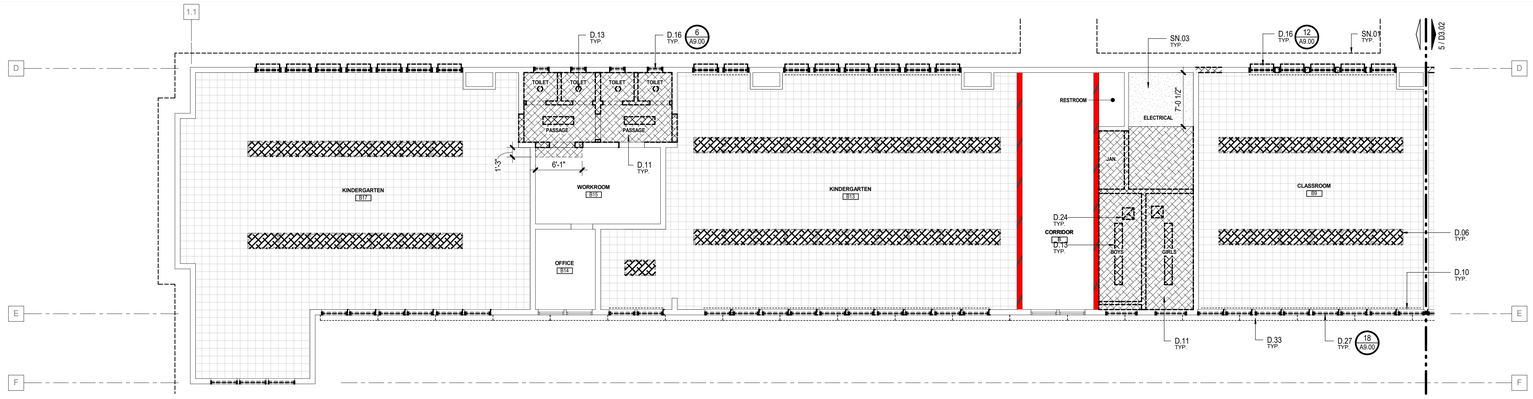
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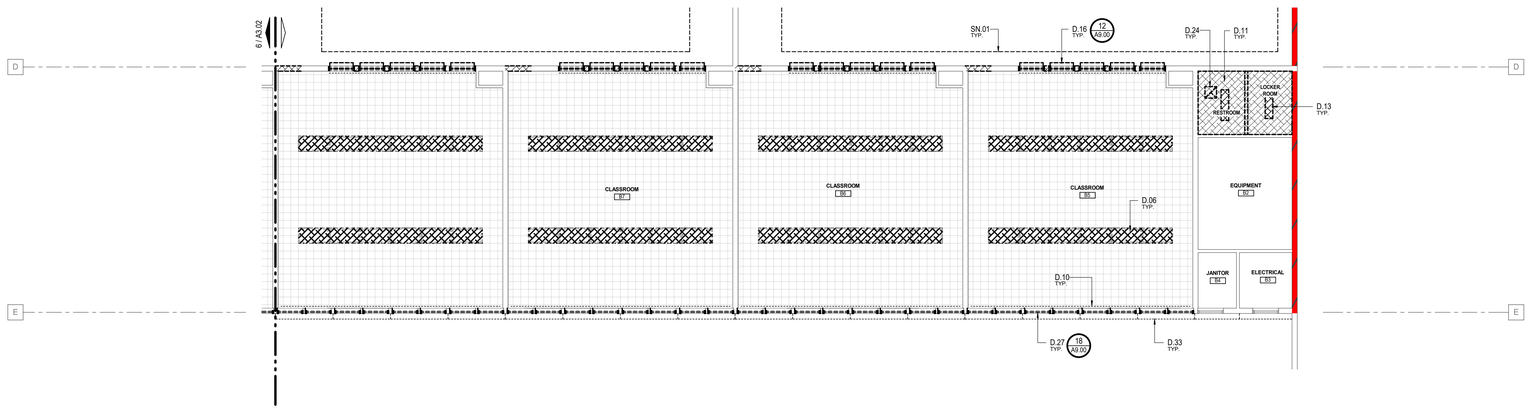
ENLARGED DEMOLITION FLOOR PLANS

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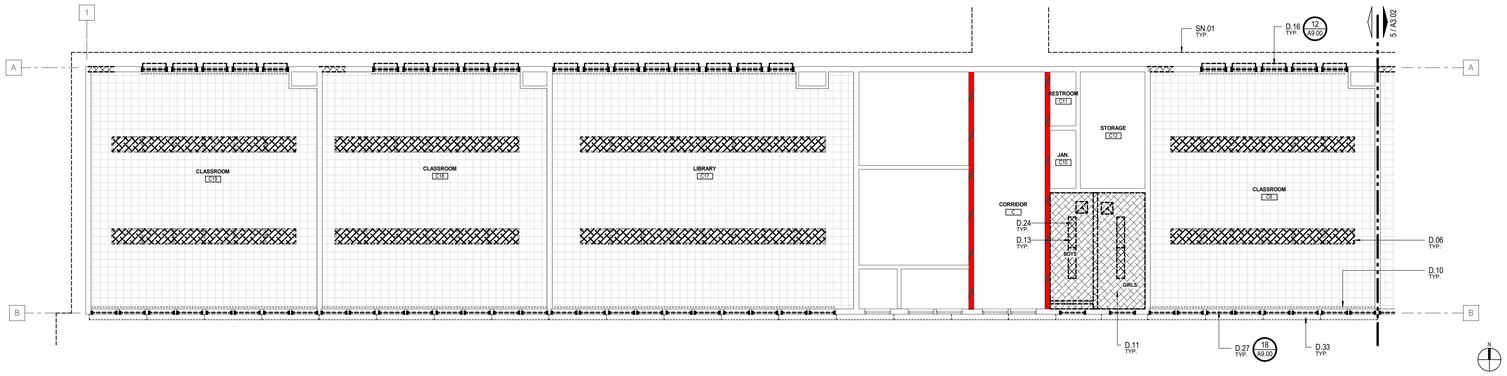
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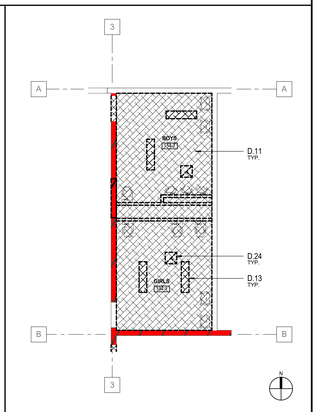
6 DEMOLITION REFLECTED CEILING PLAN - BLDG.B (WEST)
SCALE: 1/8" = 1'-0"



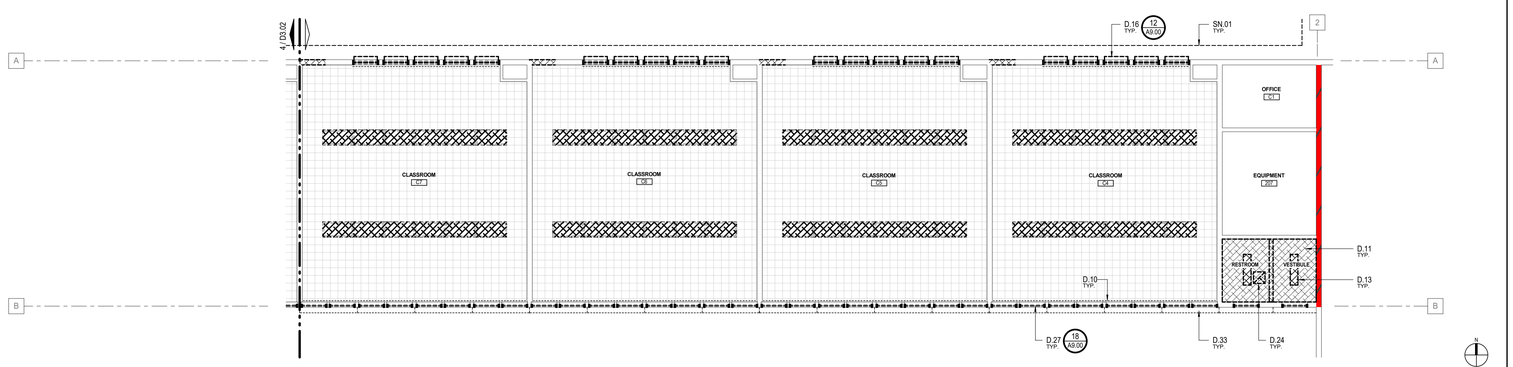
5 DEMOLITION REFLECTED CEILING PLAN - BLDG B (EAST)
SCALE: 1/8" = 1'-0"



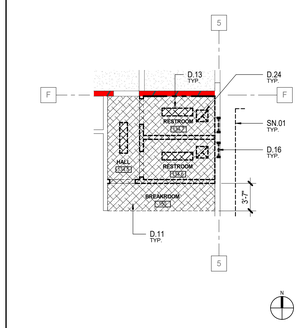
4 DEMOLITION REFLECTED CEILING PLAN - BLDG C (WEST)
SCALE: 1/8" = 1'-0"



3 DEMOLITION RCP - BLDG B (EAST)
SCALE: 1/8" = 1'-0"



2 DEMOLITION REFLECTED CEILING PLAN - BLDG C (EAST)
SCALE: 1/8" = 1'-0"



1 DEMOLITION RCP - BLDG B (EAST)
SCALE: 1/8" = 1'-0"

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9. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
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18. FILL ALL INTERIOR AND EXTERIOR HOLES, PENETRATIONS, OR OPENINGS LEFT EXPOSED FROM THE DEMOLITION OF METAL LOUVERS, ELECTRICAL CONDUIT, HVAC OR PLUMBING. PAINT TO MATCH SURROUNDING FINISH.

DEMOLITION LEGEND

- EXISTING ITEM / AREA TO DEMOLISHED
- EXISTING CEILING TO REMAIN
- EXISTING WALL TO REMAIN
- EXISTING WALL AND CONCRETE CURB TO DEMOLISHED
- EXISTING WALL FINISHES UP TO CEILING TO BE DEMOLISHED, EXISTING FRAMING TO REMAIN
- 1-HR FIRE RATED PARTITION (ASSEMBLY 15-1.3 PER CBC TABLE 721.1)

DEMOLITION KEYNOTES

D.06	REMOVE (E) SUSPENDED LIGHT FIXTURES, TYP.
D.10	REMOVE (E) WINDOW BLINDS
D.11	REMOVE (E) CEILING FINSHES DOWN TO FRAMING
D.13	REMOVE (E) SURFACE MOUNTED LIGHT FIXTURE
D.16	REMOVE (E) WINDOW AND TRIM
D.24	REMOVE (E) EXHAUST FAN
D.27	REMOVE (E) CLERESTORY WINDOW AND TRIM
D.33	REMOVE (E) METAL LOUVERS

SHEET NOTES

SN.01	OUTLINE OF ROOF
SN.03	EXISTING CEILING TO REMAIN

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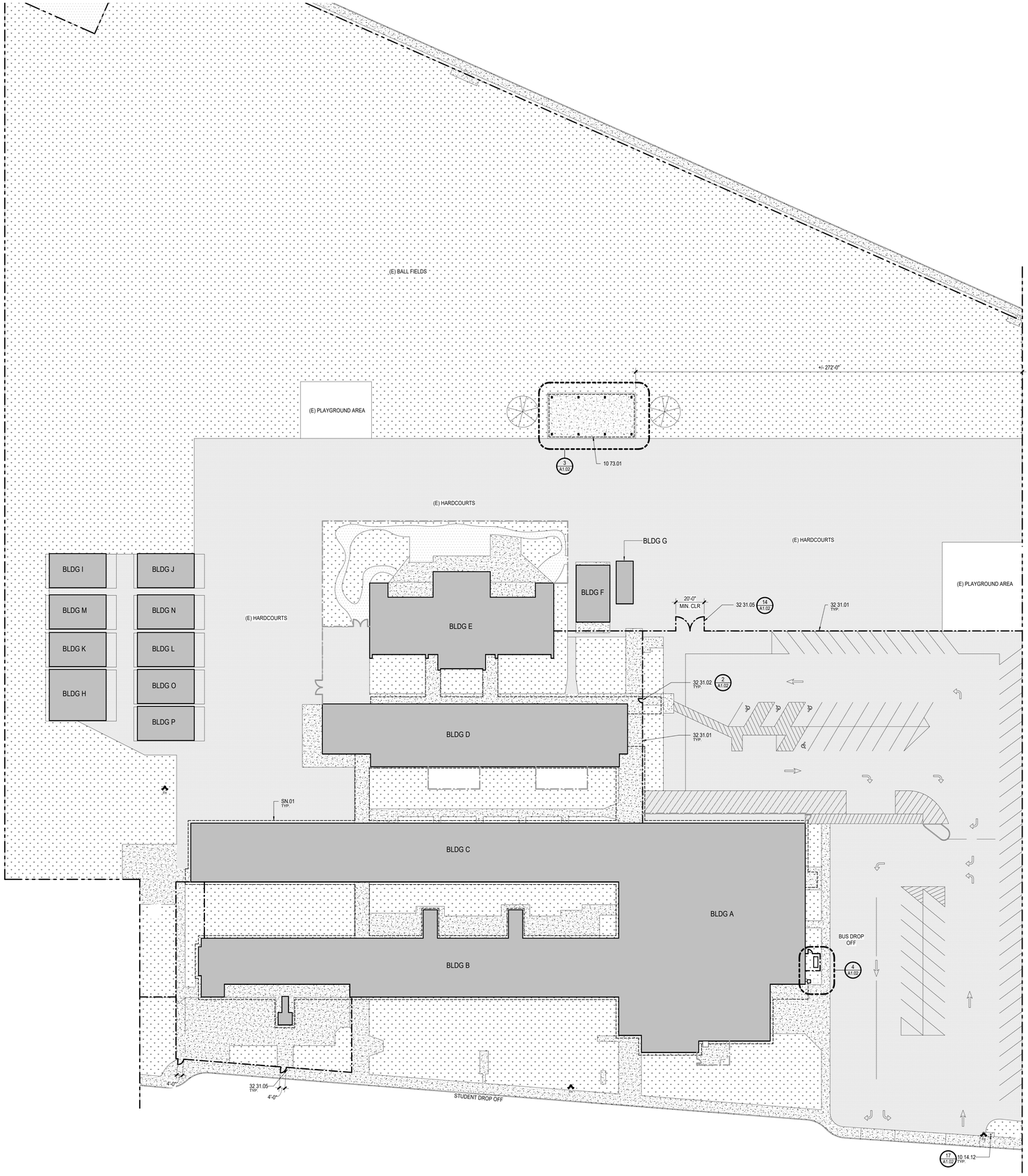
#	DESCRIPTION	DATE

DSA APP No. 02-121905

DEMOLITION REFLECTED CEILING PLANS

This document is for plan review only

D3.02



1 OVERALL IMPROVEMENT SITE PLAN
SCALE: 1" = 30'-0"

SITE PLAN NOTES

1. VERIFY AND CONFIRM ALL JOINT LAYOUTS AT ALL CONCRETE FLATWORK WITH ARCH. PRIOR TO POURING OF CONCRETE.
2. PROVIDE AND INSTALL CONCRETE SIDEWALK EXPANSION JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT 50 FEET ON-CENTER MAX. U.N.O.
3. PROVIDE AND INSTALL CONCRETE SIDEWALK CONTROL JOINTS AT AREAS NOT SPECIFICALLY INDICATED AT DISTANCES EQUIVALENT TO SIDEWALK WIDTH, BUT NOT TO EXCEED 12 FEET ON-CENTER MAX.
4. CONCRETE FLATWORK NOT TO EXCEED 2% IN ANY DIRECTION.
5. CONCRETE FLATWORK TO MEET THE FINISHED HEIGHT OF ADJACENT CONCRETE AREAS.

SITE PLAN LEGEND

- (E) BUILDING IN SCOPE
- (E) FIRE ACCESS LANE
- ACCESSIBLE TOILET ROOM
- (E) LANDSCPE AREA
- (E) AC PAVING
- ASSUMED PROPERTY LINE
- (E) ACCESSIBLE PATH OF TRAVEL
- PROPERTY LINE
- (E) ROOF OUTLINE
- (E) FENCLINE
- FENCLINE
- FH (E) FIRE HYDRANT

KEYNOTE LEGEND

10 14.12	TOW AWAY SIGN
10 73.01	PC SHADE STRUCTURE
32 31.01	CHAIN LINK FENCING
32 31.02	ORNAMENTAL METAL FENCE GATE
32 31.05	METAL FENCE GATE (REFER TO PLAN FOR WIDTH)
SN.01	OUTLINE OF ROOF

SHEET NOTES

SN.01	OUTLINE OF ROOF

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APP: 02-121905 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
DSA APP No. 02-121905

LODI UNIFIED SCHOOL DISTRICT

G	H	J
D	E	F
A	B	C

KEY PLAN
PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
LEONA M. KETTERL
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

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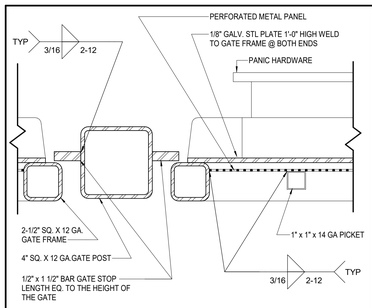
#	DESCRIPTION	DATE

DSA APP No. 02-121905

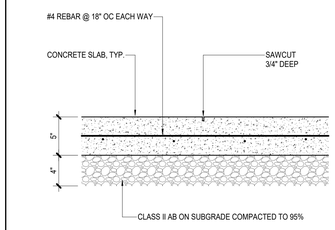
OVERALL IMPROVEMENT SITE PLAN

A1.01

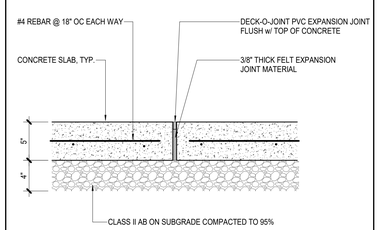
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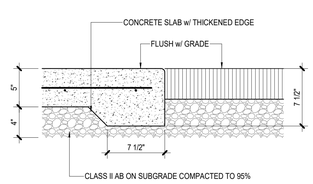
25 DECORATIVE FENCE HARDWARE DETAIL
SCALE: 3" = 1'-0"



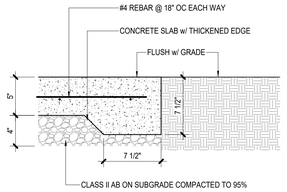
1 TYPICAL CONCRETE CONTROL JOINT
SCALE: 1 1/2" = 1'-0"



23 TYPICAL CONCRETE EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



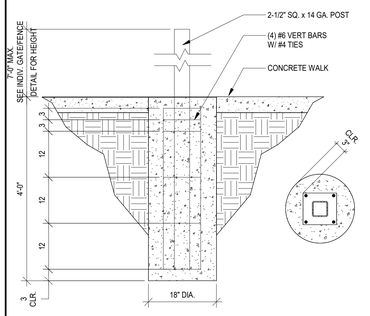
22 TYPICAL CONCRETE TO EXISTING ASPHALT
SCALE: 1 1/2" = 1'-0"



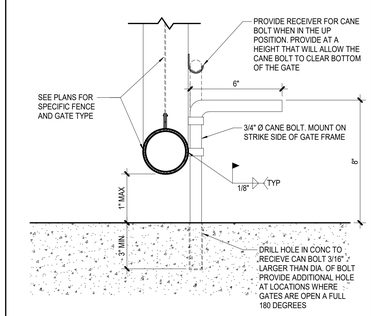
21 TYPICAL CONCRETE SLAB EDGE
SCALE: 1 1/2" = 1'-0"

SITE PLAN NOTES

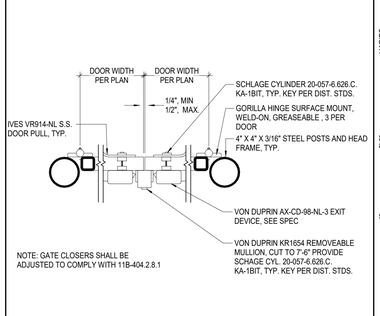
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5. CONCRETE FLATWORK TO MEET THE FINISHED HEIGHT OF ADJACENT CONCRETE AREAS.



20 DECORATIVE FENCE POST FOOTING
SCALE: 3/4" = 1'-0"

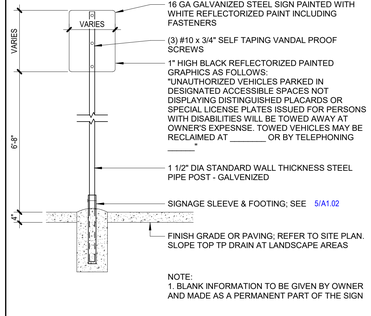


19 TYPICAL CANE BOLT
SCALE: 3" = 1'-0"

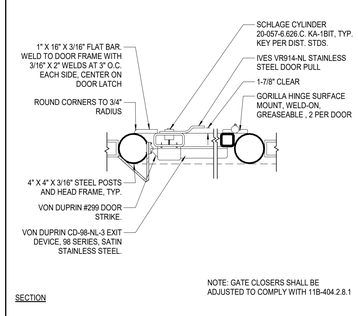


NOTE: GATE CLOSERS SHALL BE ADJUSTED TO COMPLY WITH 11B-404.2.8.1

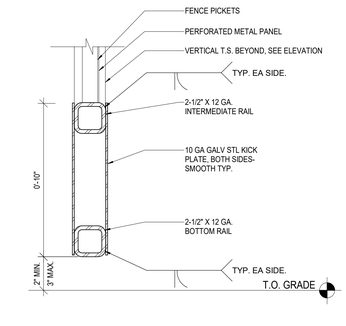
18 CHAIN LINK DOUBLE GATE HARDWARE
SCALE: 1 1/2" = 1'-0"



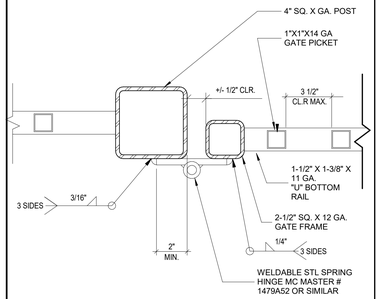
17 PARKING ENTRY SIGN
SCALE: 1/2" = 1'-0"



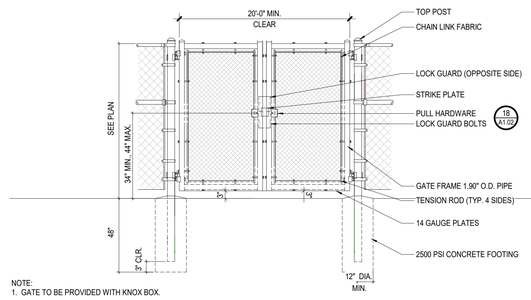
16 CHAIN LINK SINGLE GATE HARDWARE
SCALE: 1 1/2" = 1'-0"



26 DECORATIVE GATE KICK PLATE
SCALE: 3" = 1'-0"

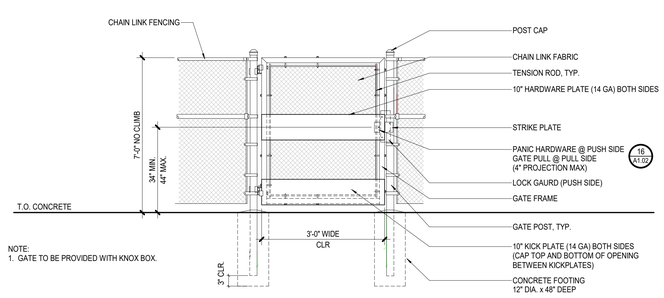


15 DECORATIVE GATE HARDWARE
SCALE: 1 1/2" = 1'-0"



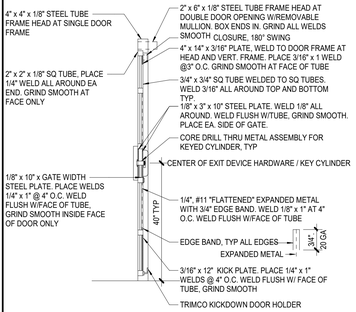
NOTE:
1. GATE TO BE PROVIDED WITH KNOX BOX.

14 CHAIN LINK DOUBLE GATE - FIRE ACCESS
SCALE: 1/2" = 1'-0"



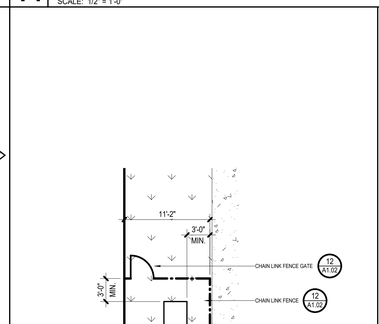
NOTE:
1. GATE TO BE PROVIDED WITH KNOX BOX.

12 CHAIN LINK SWING GATE
SCALE: 1/2" = 1'-0"

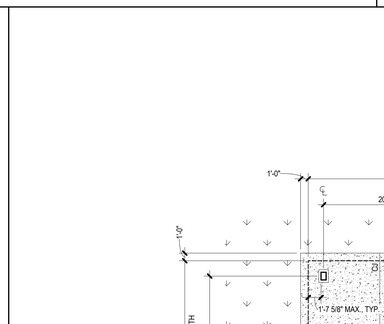


11 DECORATIVE FENCE SECTION
SCALE: 1/2" = 1'-0"

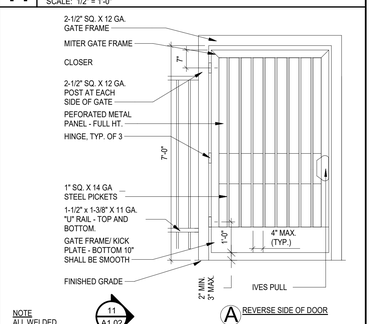
10 DECORATIVE GATE HINGE
SCALE: 3" = 1'-0"

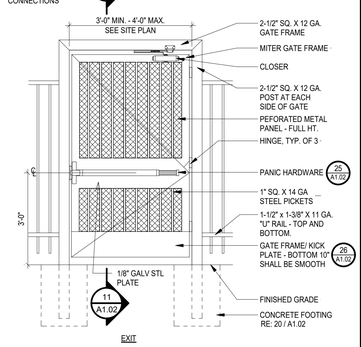


4 ENLARGED SITE PLAN - SWITCHGEAR
SCALE: 1/8" = 1'-0"

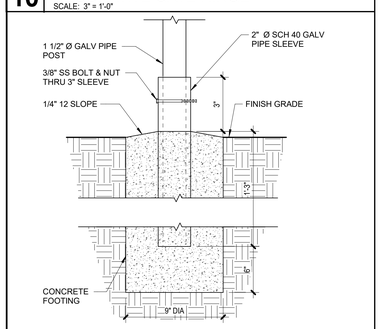


3 ENLARGED IMPROVEMENT SITE PLAN - SHADE STRUCTURE
SCALE: 1/8" = 1'-0"





2 DECORATIVE FENCE SINGLE GATE
SCALE: 1/2" = 1'-0"



5 SIGN SLEEVE
SCALE: 1 1/2" = 1'-0"

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SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

ARCHITECT
PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
DSA APP No. 02-121905

LODI UNIFIED SCHOOL DISTRICT

G H J
D E F
A B C

KEY PLAN
PLAN NORTH
TRUE NORTH

LICENSED ARCHITECT
LEDNA M. KETTERL
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK
REVISIONS

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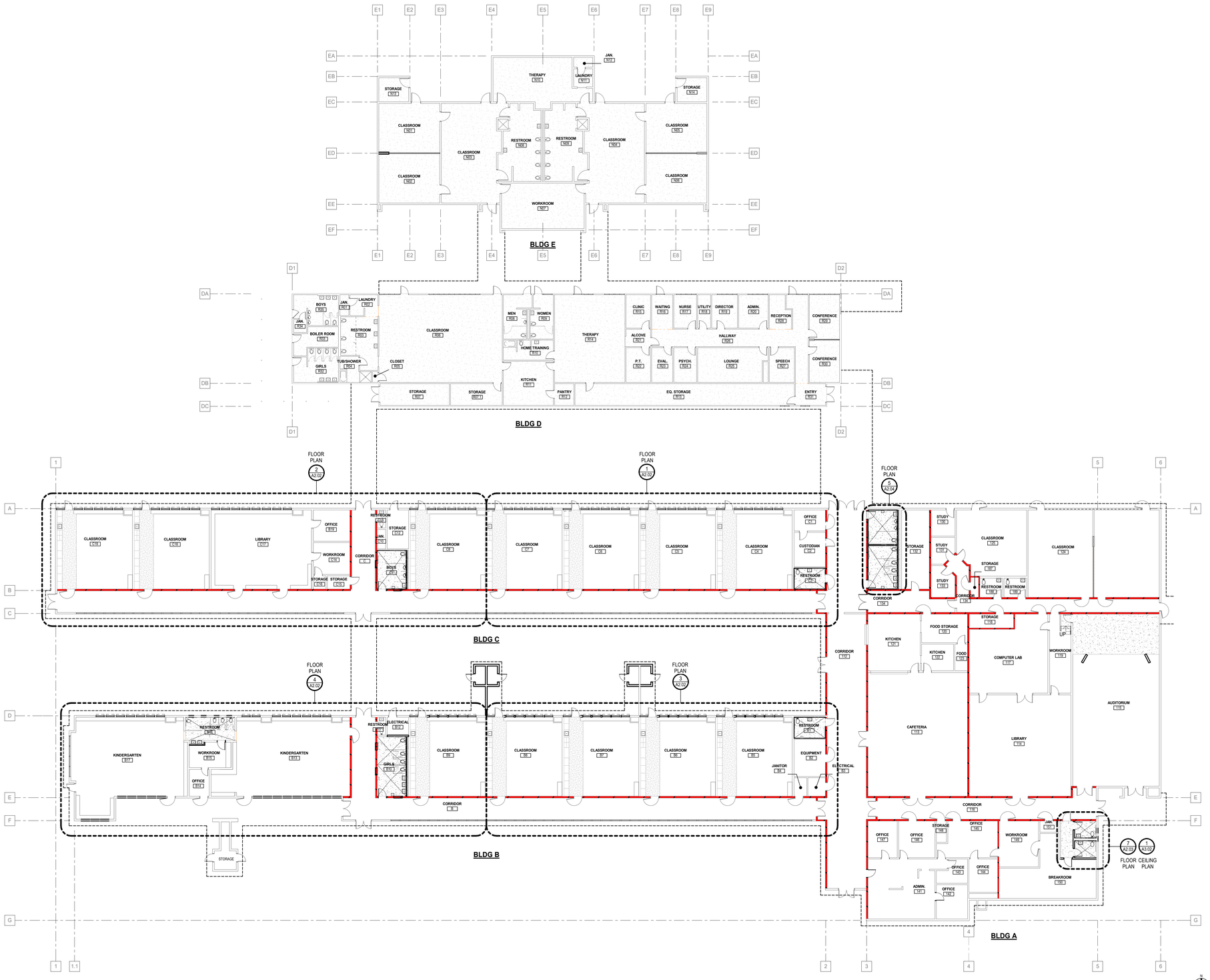
ENLARGED IMPROVEMENT SITE PLAN AND DETAILS

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A1.02

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A2.01 - OVERALL IMPROVEMENT FLOOR PLAN



GENERAL NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
3. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITION BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDIN WITH AFFECTED WORK
4. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR THIS SHEET
5. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
6. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
7. REFER TO PARTITION TYPES ON SHEET **G0.50**
8. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
9. PROTECT ALL EXISTING CONSTRUCTION TO REMAIN.
10. ALL DOORS SHALL BE SET 4 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
11. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
12. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
13. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
14. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED.
15. REFER TO OTHER DISCIPLINE DOCUMENTS IN THESE PLANS FOR ADDITIONAL SCOPE OF WORK.
16. ALL NEW EXPOSED ELECTRICAL CONDUIT TO BE PAINTED **IP-2**.
17. REFER TO G SHEETS FOR SIGNAGE.

1 OVERALL IMPROVEMENT FLOOR PLAN
SCALE: 1/16" = 1'-0"

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G	H	J
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KEY PLAN

PLAN NORTH / TRUE NORTH

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REVISIONS

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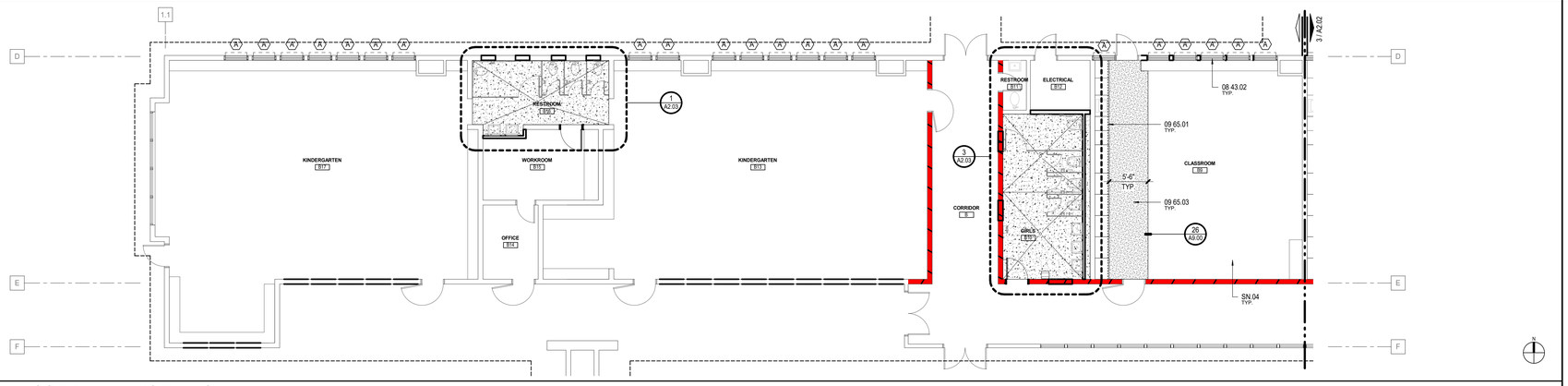
DSA APP No. 02-121905

OVERALL IMPROVEMENT FLOOR PLAN

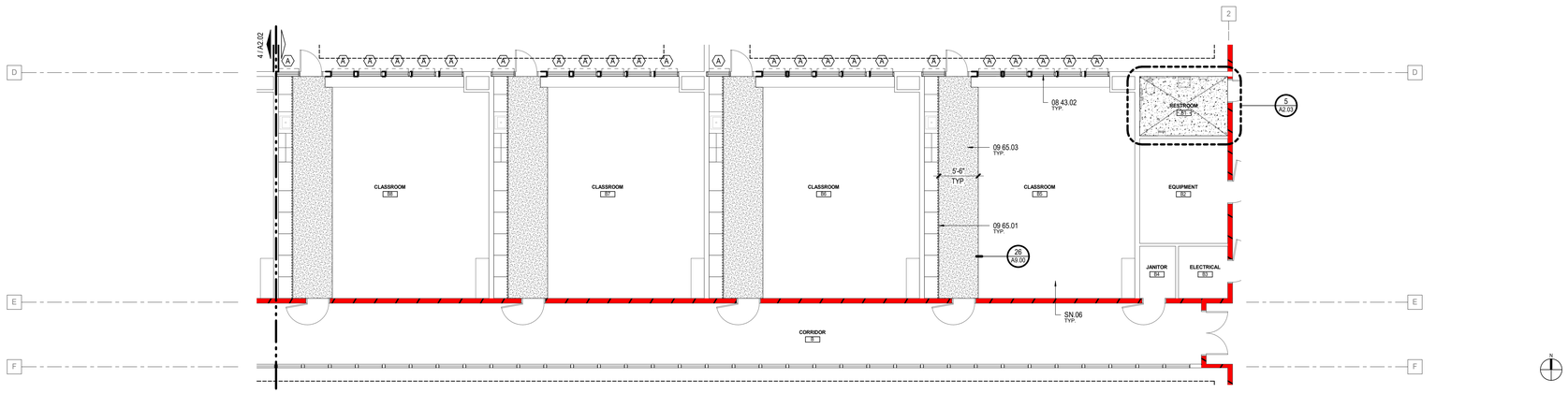
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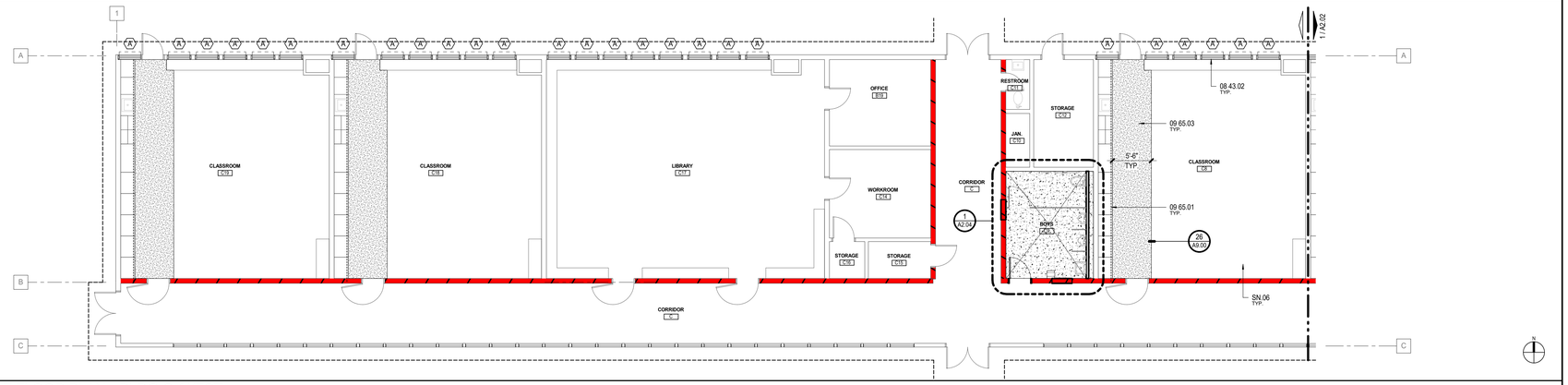
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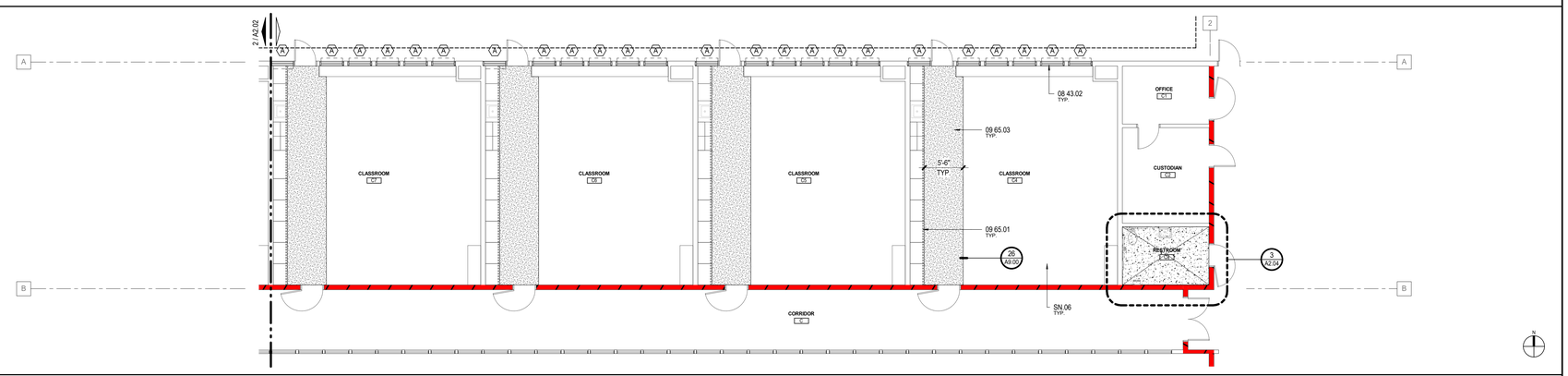
4 IMPROVEMENT FLOOR PLAN - BLDG.B (WEST)
SCALE: 1/8" = 1'-0"



3 IMPROVEMENT FLOOR PLAN - BLDG.B (EAST)
SCALE: 1/8" = 1'-0"



2 IMPROVEMENT FLOOR PLAN - BLDG.C (WEST)
SCALE: 1/8" = 1'-0"



1 IMPROVEMENT FLOOR PLAN - BLDG.C (EAST)
SCALE: 1/8" = 1'-0"

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17. REFER TO G SHEETS FOR SIGNAGE.

FLOOR PLAN LEGEND

- ROOM NAME & NUMBER (ROOM NAME / 106)
- NEW PARTITION — REFER TO SHEET **G0.50** FOR TYPES (S4A.2)
- EXISTING PARTITION
- DOOR DESIGNATION (108B) — REFER TO SHEET **A9.00** FOR DOOR SCHEDULE
- WINDOW DESIGNATION (A) — REFER TO SHEET **A9.00** FOR ELEVATION TYPE
- 1-HR FIRE RATED PARTITION (ASSEMBLY 15-1.3 PER CBC TABLE 721.1)
- WALK OFF MAT (WOM-1)
- CONCRETE SLAB
- FLOOR DRAIN

KEYNOTE LEGEND

08.43.02	ALUMINUM STOREFRONT WINDOW
09.65.01	RESILIENT RUBBER BASE @ (E) CASEWORK (DASHED LINE)
09.65.03	WALK OFF MAT

SHEET NOTES

SN.04	EXISTING FLOOR TO REMAIN
SN.06	EXISTING CARPET TO REMAIN

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DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

ARCHITECT
PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL

831 WEST LOCKEFORD STREET
LODI, CA 95240

DSA APP No. 02-121905

LODI UNIFIED SCHOOL DISTRICT

G	H	J
D	E	F
A	B	C

KEY PLAN — PLAN NORTH — TRUE NORTH

LICENSED ARCHITECT
LEONA M. KETTERL
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK

REVISIONS

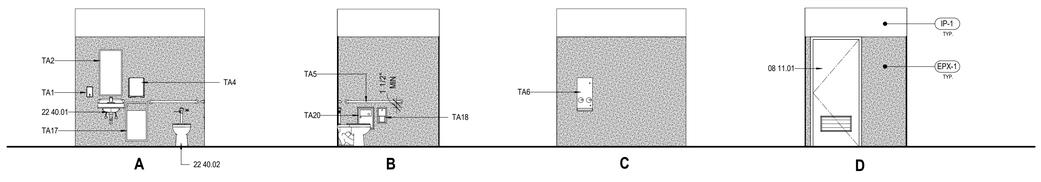
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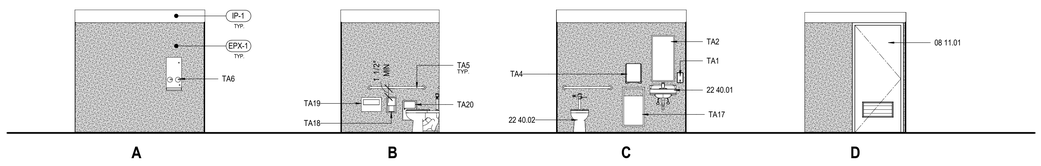
IMPROVEMENT FLOOR PLANS

A2.02

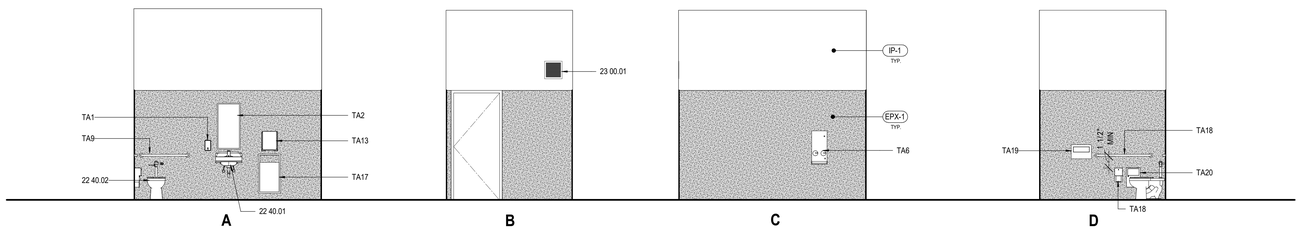
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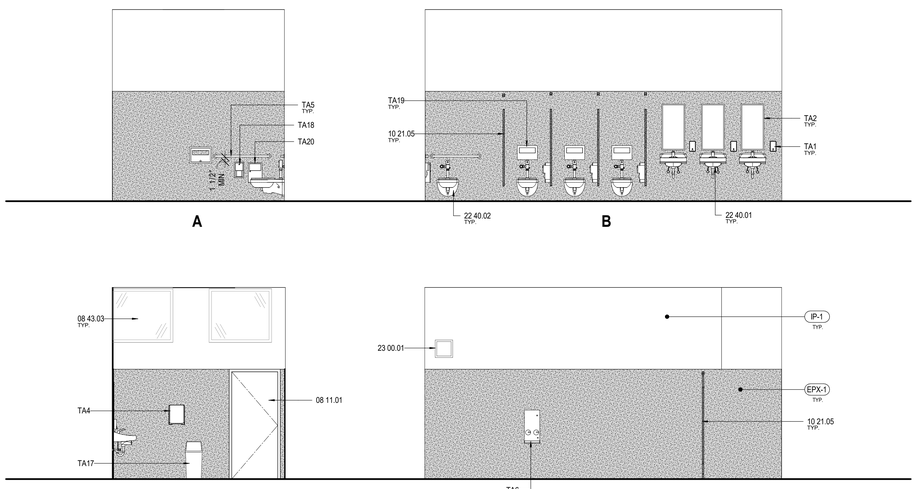
9 A134.6 - IMPROVEMENT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



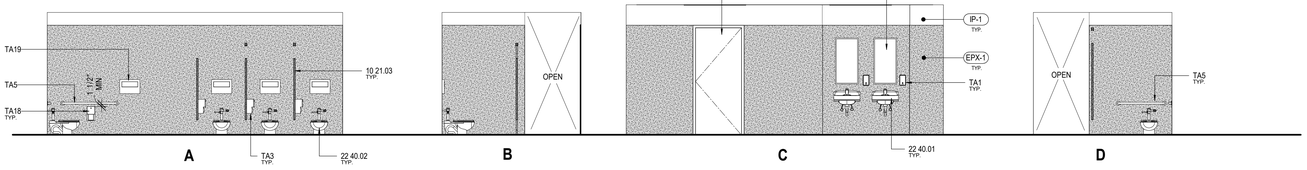
8 A134.7 - IMPROVEMENT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



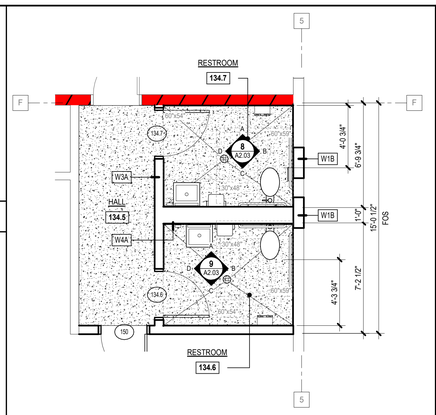
6 B1 - IMPROVEMENT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



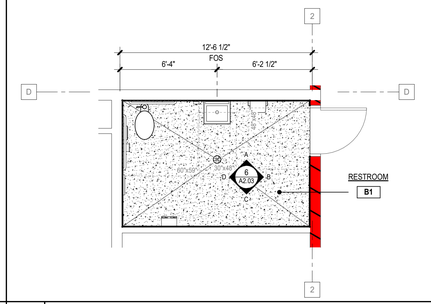
4 B10 - IMPROVEMENT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



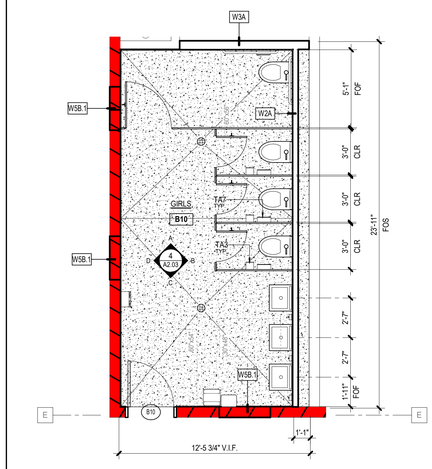
2 B16 - IMPROVEMENT INTERIOR ELEVATION A
SCALE: 1/4" = 1'-0"



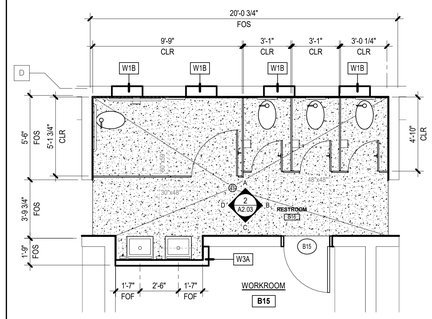
7 ENLARGED IMPROVEMENT PLANS - 134.6 & 134.7
SCALE: 1/4" = 1'-0"



5 ENLARGED IMPROVEMENT PLAN - B1
SCALE: 1/4" = 1'-0"



3 ENLARGED IMPROVEMENT PLAN - B10
SCALE: 1/4" = 1'-0"



1 ENLARGED IMPROVEMENT PLAN - B16
SCALE: 1/4" = 1'-0"

RESTROOM GENERAL NOTES

1. REFER TO **A9.00** FOR DOOR SCHEDULE.
2. ALL TOILET ACCESSORIES TO BE CFCI.
3. FOR MOUNTING HEIGHTS, LOCATIONS OF FIXTURES AND TOILET ACCESSORIES, AND DETAILS OF TOILET ACCESSORIES, INCLUDING THOSE FOR DISABLED ACCESS, REFER TO SHEET **G0.30**.
4. SLOPE CONCRETE IN RESTROOMS TO FLOOR DRAINS WITH A MINIMUM SLOPE OF 1% AND SHALL NOT EXCEED 1/8" PER FOOT. REFER TO PLANS FOR ARROWS INDICATING SLOPE DIRECTION.
5. REFER TO SHEET **A9.00** FOR ALL EPOXY FINISH DETAILS.
6. REFER TO BUILDING DATA AND CODE ANALYSIS SHEETS FOR ALL REQUIRED SIGNAGE.
7. NOTES ANNOTATED AS "TYP." SHALL APPLY TO ALL CONDITIONS THAT ARE THE SAME OR SIMILAR ON THIS SHEET.
8. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES AND TOILET PATITIONS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
9. REFER TO OTHER DISCIPLINES FOR ADDITONAL SCOPE OF WORK.
10. NEW DOORS TO BE SET 4" OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O. NOTIFY ARCHITECT IF ANY DOOR RELATED CONFLICTS OCCUR.
11. FLOORING TRANSITIONS TO BE CENTERED UNDER DOOR IN THE CLOSED POSITION.
12. REFER TO SHEET **A9.00** FOR FINISH SCHEDULE.
13. REFER TO SHEET **G0.50** FOR PARTITION TYPES.
14. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
15. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT OR ADJOIN IN THE SAME PLANE.
16. PROVIDE SEALANT AT DOOR FRAMES TO MATCH SURROUNDING FINISH.
17. REFER TO SHEET G SHEETS FOR SIGNAGE.
18. REFER TO SHEET G0.30 FOR ACCESSIBLE STANDARDS FOR TOILET FACILITIES.

FLOOR PLAN LEGEND

- ROOM NAME / 106 — ROOM NAME & NUMBER
- S4A.2 — NEW PARTITION, REFER TO SHEET **G0.50** FOR TYPES
- EXISTING PARTITION
- 106B — DOOR DESIGNATION, REFER TO SHEET **A9.00** FOR DOOR SCHEDULE
- A — WINDOW DESIGNATION, REFER TO SHEET **A9.00** FOR ELEVATION TYPE
- 1-HR FIRE RATED PARTITION (ASSEMBLY 15-1.3 PER CBC TABLE 721.1)
- WALK OFF MAT (WOM-1)
- CONCRETE SLAB
- FLOOR DRAIN

KEYNOTE LEGEND

08 11.01	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
08 43.03	ALUMINUM STOREFRONT CLERESTORY WINDOW
10 21.03	SOLID POLYMER TOILET COMPARTMENT
10 21.05	COMPOSITE TOILET COMPARTMENT
22 40.01	LAVATORY
22 40.02	WATER CLOSET
23 00.01	MECHANICAL EQUIPMENT

TOILET ACCESSORIES

TA1	SOAP DISPENSER
TA2	MIRROR
TA3	TOILET PAPER DISPENSER
TA4	PAPER TOWEL DISPENSER
TA5	GRAB BARS
TA6	SANITARY NAPKIN DISPENSER
TA7	SANITARY NAPKIN DISPOSAL
TA9	GRAB BARS AT ACCESSIBLE SHOWER
TA13	ELECTRIC HAND DRYER
TA17	TRASH RECEPTACLE (RECESSED)
TA18	TOILET PAPER DISPENSER, SEMI-RECESSED
TA19	TOILET SEAT COVER DISPENSER
TA20	SANITARY NAPKIN DISPOSAL, SEMI-RECESSED

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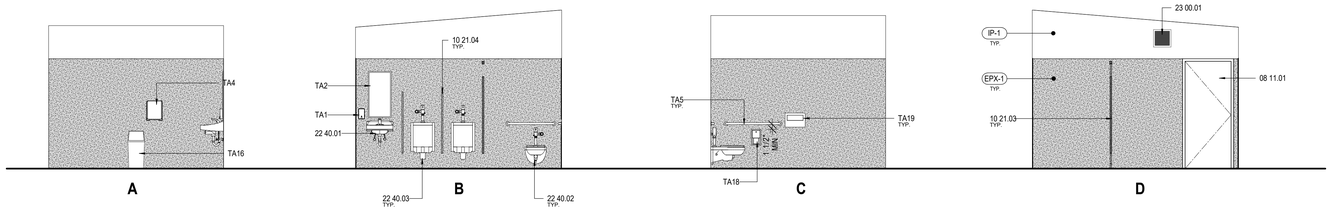
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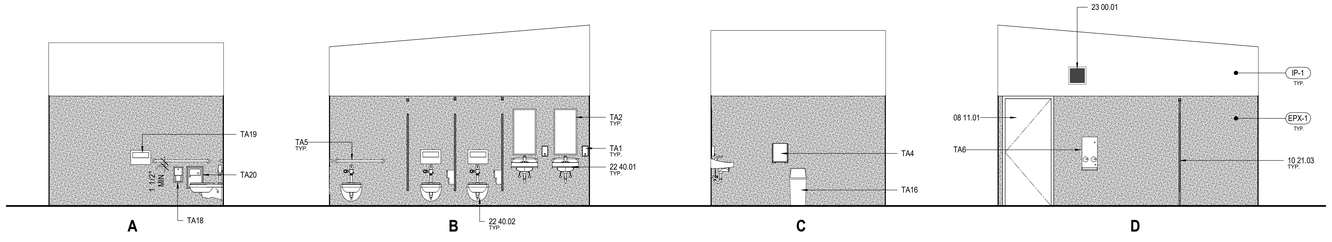
ENLARGED IMPROVEMENT PLANS & ELEVATIONS

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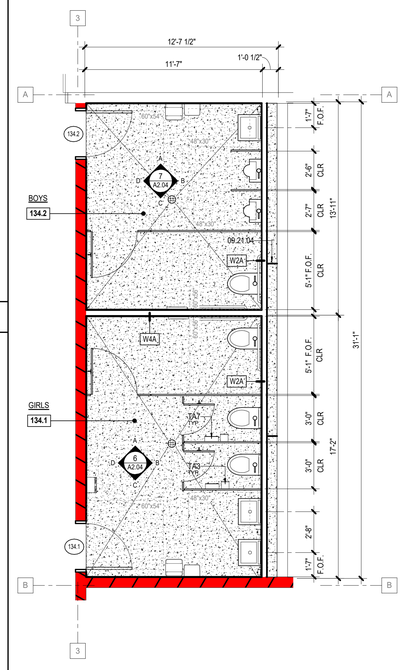
A2.03



7 134.2 - IMPROVEMENT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



6 134.1 - IMPROVEMENT INTERIOR ELEVATIONS
SCALE: 1/4" = 1'-0"



5 ENLARGED IMPROVEMENT PLAN - 134.1 & 134.2
SCALE: 1/4" = 1'-0"

RESTROOM GENERAL NOTES

1. REFER TO **A9.00** FOR DOOR SCHEDULE.
2. ALL TOILET ACCESSORIES TO BE CFCI.
3. FOR MOUNTING HEIGHTS, LOCATIONS OF FIXTURES AND TOILET ACCESSORIES, AND DETAILS OF TOILET ACCESSORIES, INCLUDING THOSE FOR DISABLED ACCESS, REFER TO SHEET **G0.30**.
4. SLOPE CONCRETE IN RESTROOMS TO FLOOR DRAINS WITH A MINIMUM SLOPE OF 1% AND SHALL NOT EXCEED 1/8" PER FOOT. REFER TO PLANS FOR ARROWS INDICATING SLOPE DIRECTION.
5. REFER TO SHEET **A9.00** FOR ALL EPOXY FINISH DETAILS.
6. REFER TO BUILDING DATA AND CODE ANALYSIS SHEETS FOR ALL REQUIRED SIGNAGE.
7. NOTES ANNOTATED AS "TYP." SHALL APPLY TO ALL CONDITIONS THAT ARE THE SAME OR SIMILAR ON THIS SHEET.
8. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES AND TOILET PATITIONS REQUIRED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
9. REFER TO OTHER DISCIPLINES FOR ADDITONAL SCOPE OF WORK.
10. NEW DOORS TO BE SET 4" OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O. NOTIFY ARCHITECT IF ANY DOOR RELATED CONFLICTS OCCUR.
11. FLOORING TRANSITIONS TO BE CENTERED UNDER DOOR IN THE CLOSED POSITION.
12. REFER TO SHEET **A9.00** FOR FINISH SCHEDULE.
13. REFER TO SHEET **G0.50** FOR PARTITION TYPES.
14. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
15. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT OR ADJOIN IN THE SAME PLANE.
16. PROVIDE SEALANT AT DOOR FRAMES TO MATCH SURROUNDING FINISH.
17. REFER TO SHEET G SHEETS FOR SIGNAGE.
18. REFER TO SHEET G0.30 FOR ACCESSIBLE STANDARDS FOR TOILET FACILITIES.

FLOOR PLAN LEGEND

ROOM NAME / 106 — ROOM NAME & NUMBER

S4A.2 — NEW PARTITION
REFER TO SHEET **G0.50** FOR TYPES

EXISTING PARTITION

108B — DOOR DESIGNATION
REFER TO SHEET **A9.00** FOR DOOR SCHEDULE

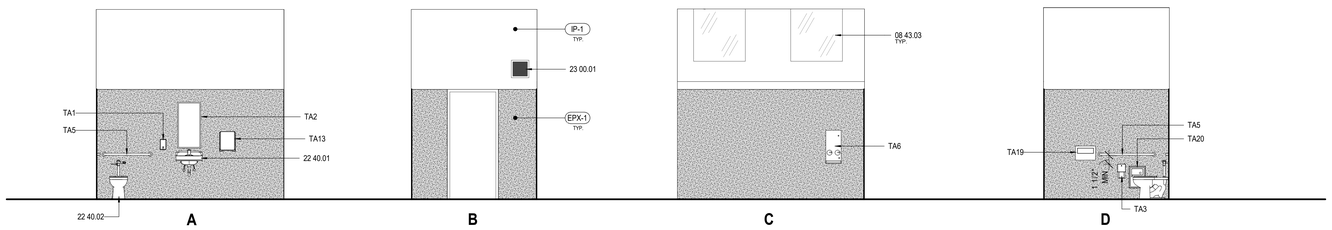
A — WINDOW DESIGNATION
REFER TO SHEET **A9.00** FOR ELEVATION TYPE

1-HR FIRE RATED PARTITION
(ASSEMBLY 15-1.3 PER CBC TABLE 721.1)

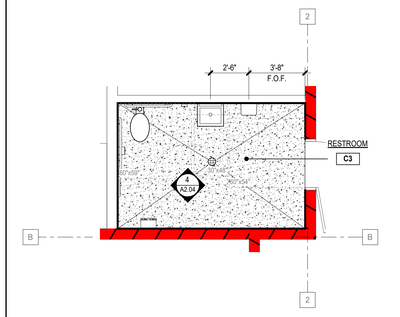
WALK OFF MAT (WOM-1)

CONCRETE SLAB

FLOOR DRAIN



4 C3 - IMPROVEMENT INTERIOR ELVATIONS
SCALE: 1/4" = 1'-0"



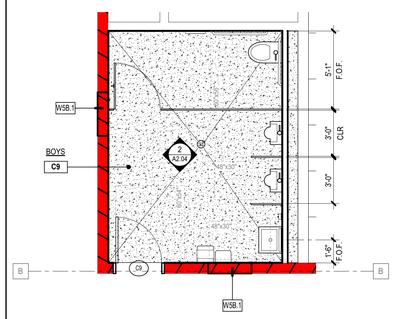
3 ENLARGED IMPROVEMENT PLAN - C3
SCALE: 1/4" = 1'-0"

KEYNOTE LEGEND

08 11.01	HOLLOW METAL DOOR AND FRAME AS SCHEDULED
08 43.03	ALUMINUM STOREFRONT CLERESTORY WINDOW
09 21.04	GYPSUM WALLBOARD, FIREBLOCKING
10 21.03	SOLID POLYMER TOILET COMPARTMENT
10 21.04	SOLID POLYMER URINAL SCREEN
22 40.01	LAVATORY
22 40.02	WATER CLOSET
22 40.03	URINAL
23 00.01	MECHANICAL EQUIPMENT

TOILET ACCESSORIES

TA1	SOAP DISPENSER
TA2	MIRROR
TA3	TOILET PAPER DISPENSER
TA4	PAPER TOWEL DISPENSER
TA5	GRAB BARS
TA6	SANITARY NAPKIN DISPENSER
TA7	SANITARY NAPKIN DISPOSAL
TA13	ELECTRIC HAND DRYER
TA16	TRASH RECEPTACLE (FREE STANDING)
TA18	TOILET PAPER DISPENSER, SEMI-RECESSED
TA19	TOILET SEAT COVER DISPENSER
TA20	SANITARY NAPKIN DISPOSAL, SEMI-RECESSED



1 ENLARGED IMPROVEMENT PLAN - C9
SCALE: 1/4" = 1'-0"

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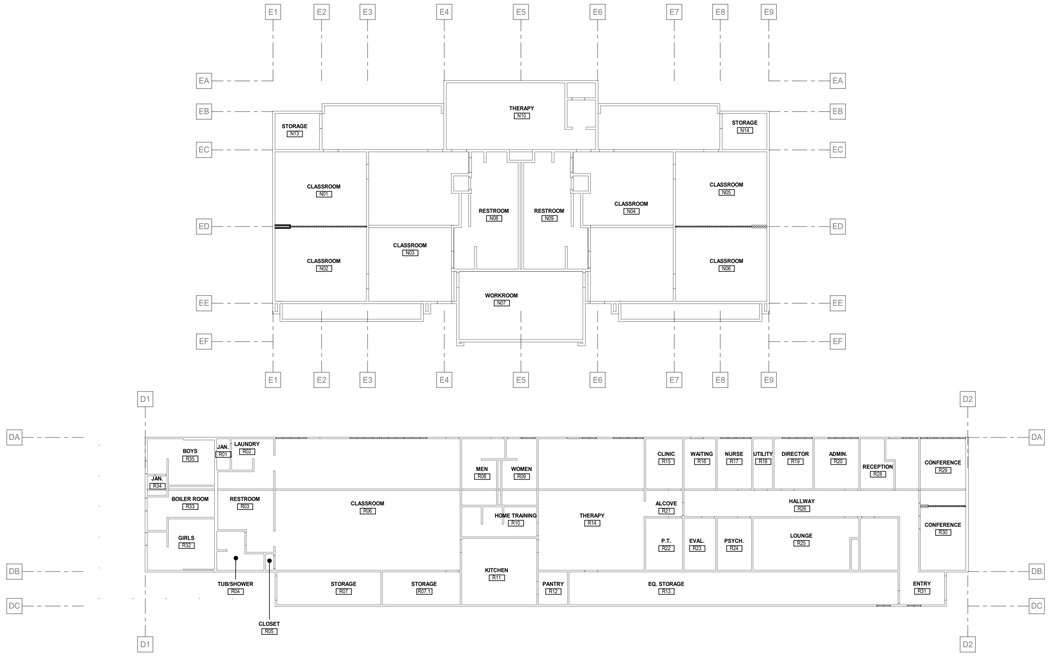
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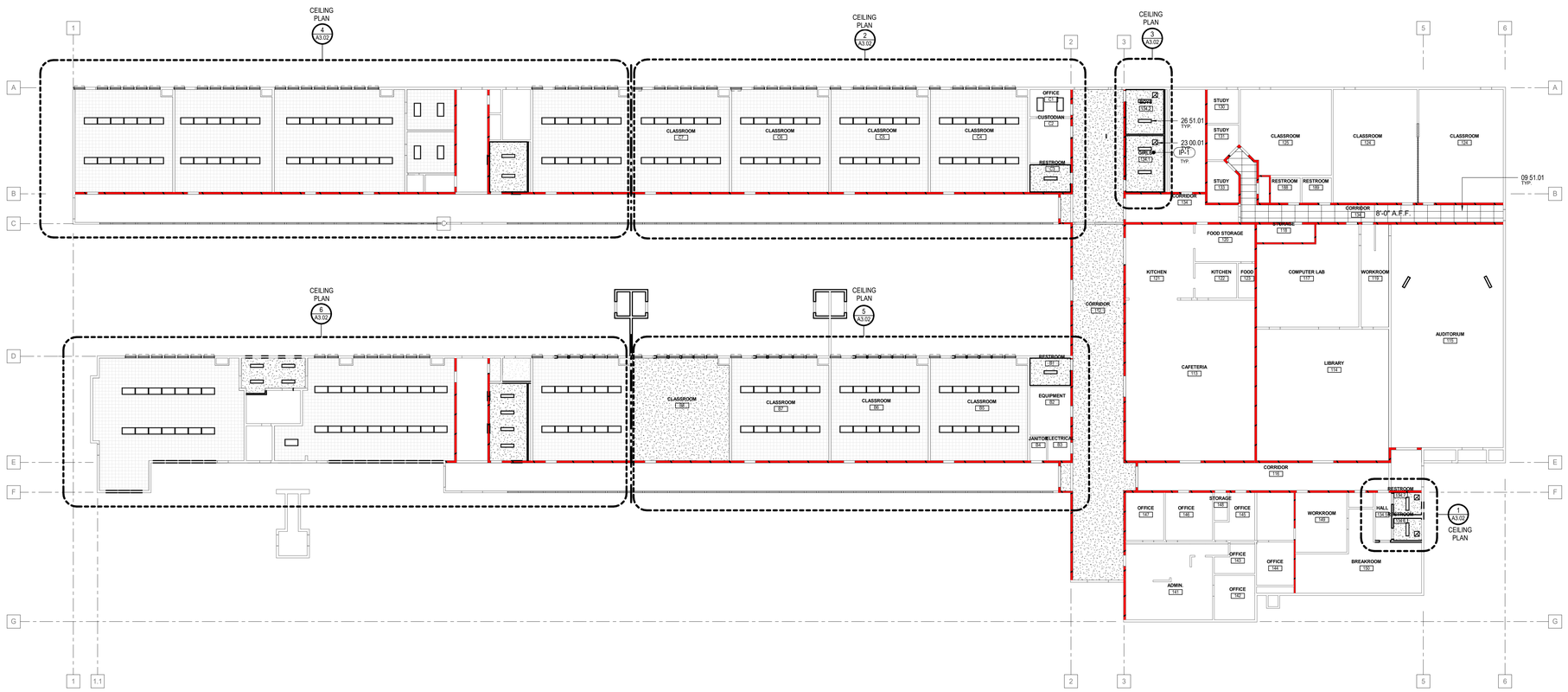
DSA APP No. 02-121905

ENLARGED IMPROVEMENT PLANS & ELEVATIONS

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A2.04





1 IMPROVEMENT RCP - BLDG A
SCALE: 1/16" = 1'-0"

GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ANNOTATIONS OR DIMENSIONS THAT SAY "TYP." SHALL APPLY TO ALL CONDITIONS THAT ARE THE SAME OR SIMILAR.
3. REFER TO FINISH SCHEDULE ON SHEET **A9.00** FOR CEILING HEIGHTS AND FINISHES.
4. FIRE ALARM DEVICES NOT SHOWN ON ARCH. REFER TO FIRE ALARM DRAWINGS FOR LOCATIONS.
5. ONLY CEILING MOUNTED LIGHT FIXTURES ARE SHOWN IN PLANS. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION.
7. REFER TO FINISH SCHEDULE ON SHEET **A9.00** FOR CEILING PAINT COLORS.
8. REFER TO **A9.00** FOR WINDOW ELEVATIONS AND DETAILS.
9. REFER TO SHEET **A10.10** FOR CEILING DETAILS.

CEILING MATERIALS LEGEND

- AREA NOT IN CONTRACT
- (E) 12" x 12" ACOUSTIC CEILING TILES
- GWB - GYPSUM BOARD SEE SJEET A10.10
- 12" x 24" ACOUSTIC CEILING TILE SEE SHEET A10.10
- A — WINDOW DESIGNATION
- 1-HR FIRE RATED PARTITION

KEYNOTE LEGEND

09 51.01	ACOUSTICAL CEILING TILE - STANDARD
23 00.01	MECHANICAL EQUIPMENT
26 51.01	SURFACE MOUNTED LIGHT FIXTURE

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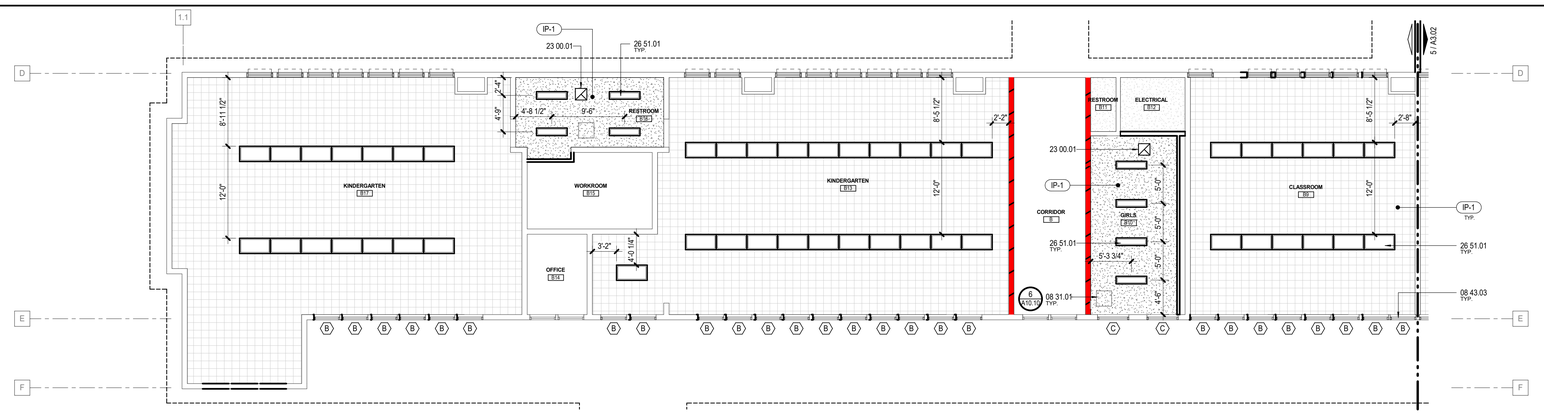
OVERALL IMPROVEMENT REFLECTED CEILING PLANS

A3.01

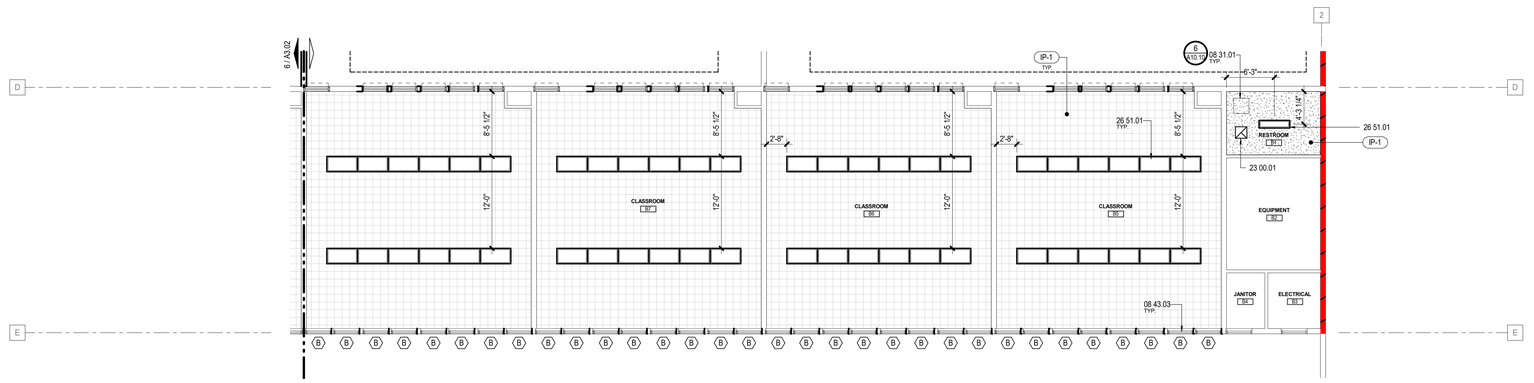
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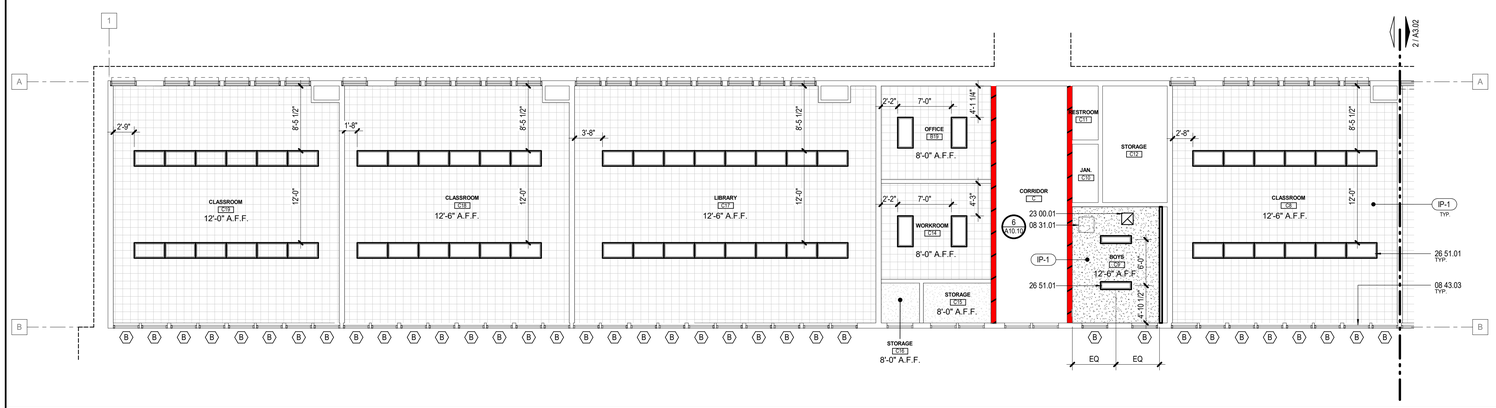
A3.02 - IMPROVEMENT REFLECTED CEILING PLANS



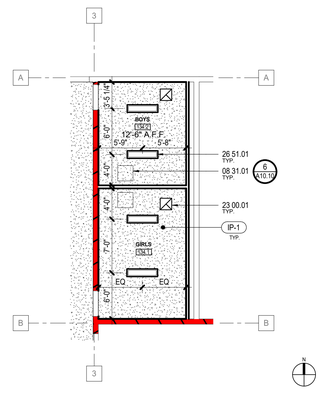
6 IMPROVEMENT REFLECTED CEILING PLAN - BLDG B (WEST)
SCALE: 1/8" = 1'-0"



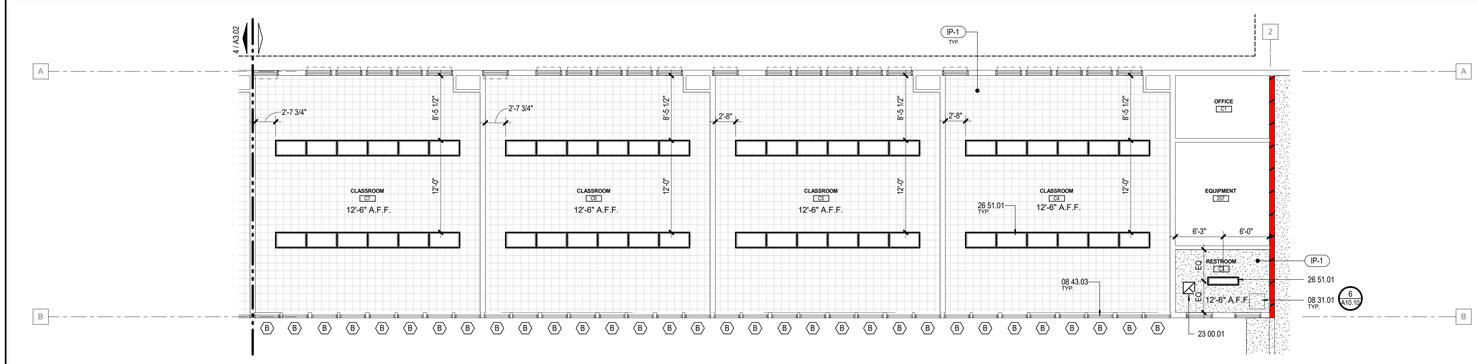
5 IMPROVEMENT REFLECTED CEILING PLAN - BLDG B (EAST)
SCALE: 1/8" = 1'-0"



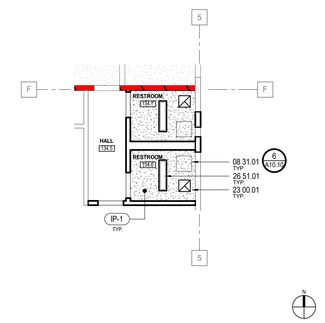
4 IMPROVEMENT REFLECTED CEILING PLAN - BLDG C (WEST)
SCALE: 1/8" = 1'-0"



3 IMPROVEMENT RCP - BLDG A (NORTH)
SCALE: 1/8" = 1'-0"



2 IMPROVEMENT REFLECTED CEILING PLAN - BLDG C (EAST)
SCALE: 1/8" = 1'-0"



1 IMPROVEMENT RCP - BLDG A (EAST)
SCALE: 1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

1. REFER TO AND COORD. WITH ROOM FINISH SCHEDULES FOR SPECIFIC CEILING TYPES.
2. ANNOTATIONS OR DIMENSIONS THAT SAY "TYP." SHALL APPLY TO ALL CONDITIONS THAT ARE THE SAME OR SIMILAR.
3. REFER TO FINISH SCHEDULE ON SHEET **A9.00** FOR CEILING HEIGHTS AND FINISHES.
4. FIRE ALARM DEVICES NOT SHOWN ON ARCH. REFER TO FIRE ALARM DRAWINGS FOR LOCATIONS.
5. ONLY CEILING MOUNTED LIGHT FIXTURES ARE SHOWN IN PLANS. COORDINATE WITH ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS.
6. VERIFY LOCATIONS OF ALL CEILING ACCESS PANELS WITH MEPT DOCUMENTS. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH ARCH. PRIOR TO INSTALLATION.
7. REFER TO FINISH SCHEDULE ON SHEET **A9.00** FOR CEILING PAINT COLORS.
8. REFER TO **A9.00** FOR WINDOW ELEVATIONS AND DETAILS.
9. REFER TO SHEET **A10.10** FOR CEILING DETAILS.

CEILING MATERIALS LEGEND

- AREA NOT IN CONTRACT
- (E) 12" x 12" ACOUSTIC CEILING TILES
- GWB - GYPSUM BOARD SEE SJEET A10.10
- 12" x 24" ACOUSTIC CEILING TILE SEE SHEET A10.10
- A — WINDOW DESIGNATION
- 1-HR FIRE RATED PARTITION

KEYNOTE LEGEND

08 31.01	ACCESS DOOR
08 43.03	ALUMINUM STOREFRONT CLERESTORY WINDOW
23 00.01	MECHANICAL EQUIPMENT
26 51.01	SURFACE MOUNTED LIGHT FIXTURE

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

PBK

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
DSA APP No. 02-121905

LODI UNIFIED SCHOOL DISTRICT

G	H	J
D	E	F
A	B	C

KEY PLAN — PLAN NORTH — TRUE NORTH

LICENSED ARCHITECT
LEONA M. KETTER
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER 230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK
REVISIONS

#	DESCRIPTION	DATE

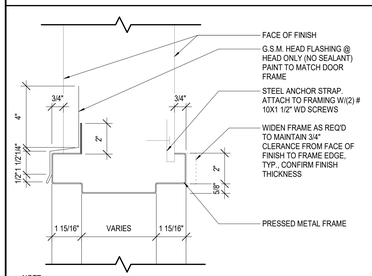
DSA APP No. 02-121905

This document is for plan review only

IMPROVEMENT REFLECTED CEILING PLANS

A3.02

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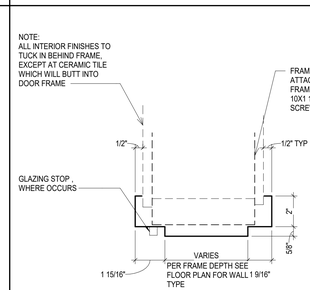


NOTE:

1. AT RATED OPENINGS, GYP. BD. SHALL PENETRATE THE THROAT OF THE FRAME 1/2" MIN. WHILE OTHER WALL FINISH MATERIALS ARE ONLY ALLOWED TO ABUT THE FRAME EDGE

24 TYP HEAD/JAMB - EXT. DOOR
SCALE: 3" = 1'-0"

NOTE:
ALL INTERIOR FINISHES TO TUCK IN BEHIND FRAME, EXCEPT AT CERAMIC TILE WHICH WILL BUTT INTO DOOR FRAME



23 TYP HEAD/JAMB - INT. DOOR
SCALE: 3" = 1'-0"

FINISH SCHEDULE

ROOM NUM	ROOM NAME	FLOOR	BASE	WALL FINISH NORTH WALL	WALL FINISH EAST WALL	WALL FINISH SOUTH WALL	WALL FINISH WEST WALL	CEILING FINISH	CEILING HEIGHT	REMARKS
112	CORRIDOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	9'-0"	
116	CORRIDOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	8'-0"	
134	CORRIDOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	8'-0"	
134.1	GIRLS	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-1	12'-0"	2
134.2	BOYS	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-1	12'-0"	2
134.5	HALL	LVT-1	RB-1	IP-2	IP-2	IP-2	IP-2	IP-1	12'-0"	
134.6	RESTROOM	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-1	8'-6"	2
134.7	RESTROOM	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-1	8'-6"	2
150	BREAKROOM	N.I.C.	RB-1	IP-2	IP-2	N.I.C.	N.I.C.	IP-1	10'-6"	1
B5	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
B6	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
B7	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
B8	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
B9	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
B10	GIRLS	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-1	12'-0"	2
B13	KINDERGARTEN	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
B16	RESTROOM	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-1	12'-6"	2
B17	KINDERGARTEN	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
C3	RESTROOM	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-1	12'-0"	2
C4	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
C5	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
C6	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
C7	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
C8	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
C9	BOYS	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	EPX-1	IP-1	12'-0"	2
C17	LIBRARY	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	
C18	CLASSROOM	WOM-1	RB-1	N.I.C.	N.I.C.	N.I.C.	N.I.C.	IP-1	12'-0"	1,3
C19	CLASSROOM	WOM-1	RB-1	N.I.C.	PT-1	N.I.C.	N.I.C.	IP-1	12'-0"	1,3

FINISH SCHEDULE REMARKS:

1. RUBBER BASE UNDER CASEWORK AS IDENTIFIED ON THE PLANS.
2. NEW GYP.BD. ABOVE EPOXY WALL FINISH TO BE PAINTED **P-1**.
3. EXISTING CEILING TO BE PAINTED **IP-1**.

FINISH LEGEND

ITEM	DESCRIPTION	MANUFACTURER	SERIES	COLOR	REMARKS
EP-1	EXTERIOR PAINT, TYPE 1	KELLEY MOORE	N/A	TBD	
EPX-1	EPOXY, TYPE 1	SHERWIN WILLIAMS	RESUFLOR DECOFLAKE	ECLIPSE	1
IP-1	INTERIOR PAINT, TYPE 1	KELLEY MOORE	N/A	BONE	
IP-2	INTERIOR PAINT, TYPE 2	KELLEY MOORE	N/A	TBD	
IP-3	INTERIOR PAINT, TYPE 3	KELLEY MOORE	N/A	TBD	
LVT-1	LUXURY VINYL TILE, TYPE 1	SHAW CONTRACT	GRAIN 0364V	TBD	
RB-1	RUBBER BASE, TYPE 1	BURKE FLOORING	TYPE TS	TBD	
WOM-1	WALK OFF MAT, TYPE 1	MOHAWK	STEP UP	OBSIDIAN / PATCH BLACK	

FINISH LEGEND REMARKS:

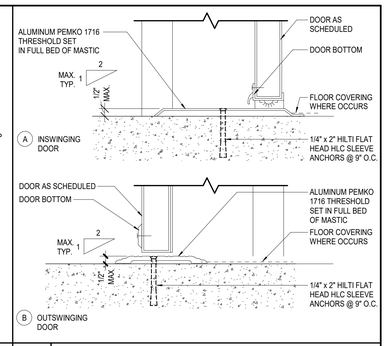
1. EPOXY FLAKE SIZE TO BE 1/8".

22 FINISH SCHEDULE AND LEGEND
SCALE: NOT TO SCALE

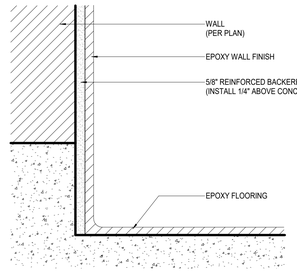


TRANSITION - CARPET/WALK OFF MAT

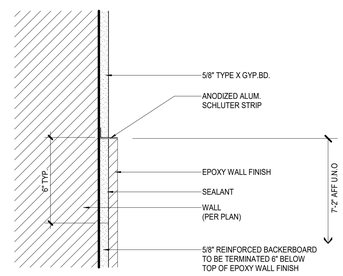
26 FLOORING TRANSITION
SCALE: 6" = 1'-0"



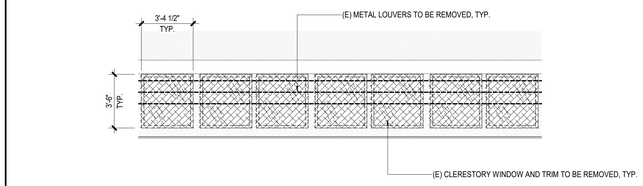
25 DOOR THRESHOLD
SCALE: 3" = 1'-0"



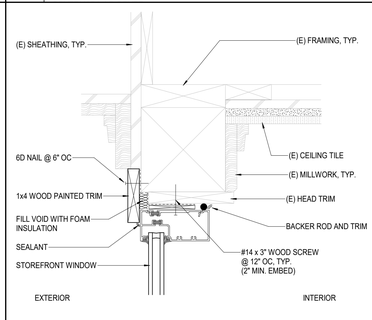
20 EPOXY @ WALL BASE
SCALE: 3" = 1'-0"



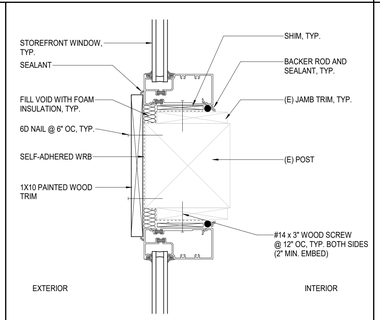
19 TOP OF EPOXY
SCALE: 3" = 1'-0"



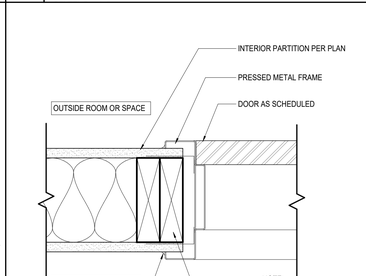
18 (E) CLASSROOM CLERESTORY WINDOWS
SCALE: 1/4" = 1'-0"



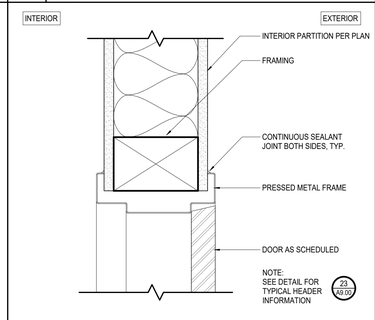
16 TYP. WINDOW HEAD
SCALE: 3" = 1'-0"



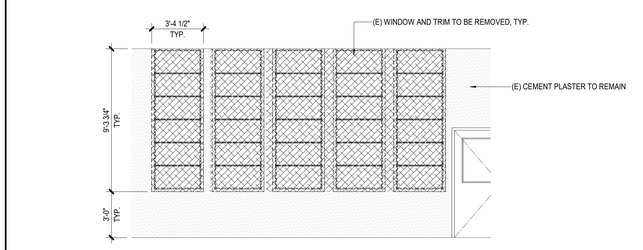
15 TYP. WINDOW JAMB (MIDDLE)
SCALE: 3" = 1'-0"



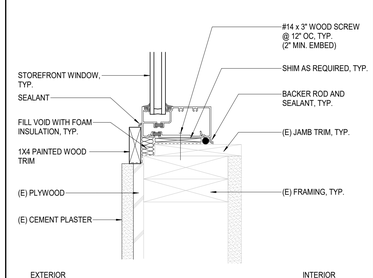
14 HM INTERIOR DOOR - JAMB
SCALE: 3" = 1'-0"



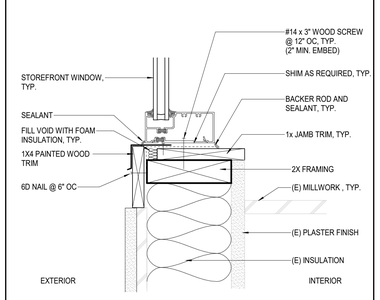
13 HM INTERIOR DOOR - HEAD
SCALE: 3" = 1'-0"



12 (E) CLASSROOM WINDOWS
SCALE: 1/4" = 1'-0"



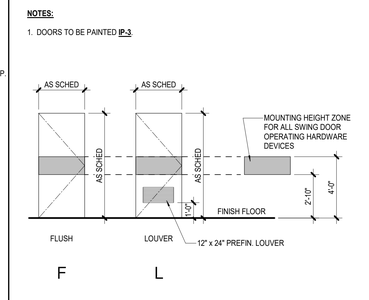
21 TYP. WINDOW JAMB (END)
SCALE: 3" = 1'-0"



9 TYP. WINDOW SILL
SCALE: 3" = 1'-0"

NOTES:

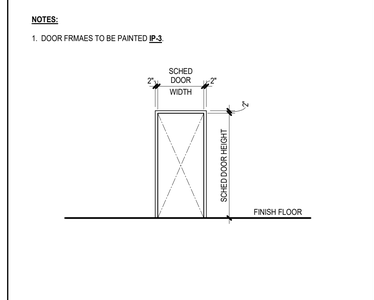
1. DOORS TO BE PAINTED **IP-3**.



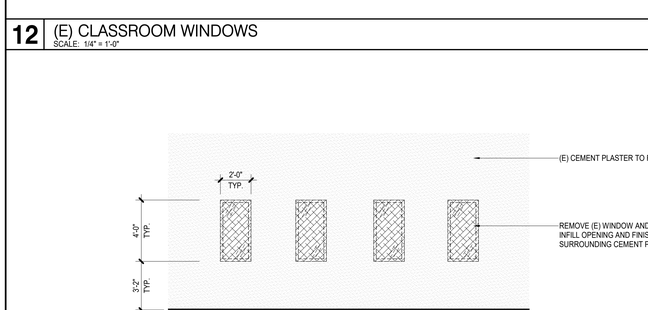
8 DOOR ELEVATION TYPES
SCALE: SCALE: 1/4" = 1'-0"

NOTES:

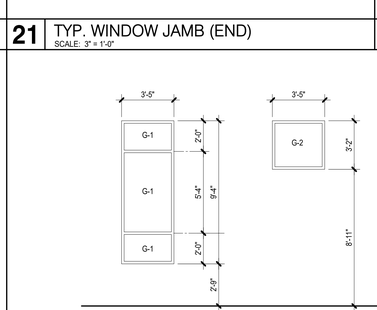
1. DOOR FRMAES TO BE PAINTED **IP-3**.



7 DOOR FRAME ELEVATION TYPES
SCALE: SCALE: 1/4" = 1'-0"



6 (E) KINDER WINDOWS
SCALE: 1/4" = 1'-0"



NOTES:

1. CONTRACTOR TO VERIFY ALL STOREFRONT WINDOW OPENING DIMENSIONS PRIOR TO PROCUREMENT / FABRICATION.
2. ALL GLAZING TO BE TEMPERED U.N.O.
3. ALL GLAZING TO BE FRONT MOUNTED IN FRAMES.

4 STOREFRONT WINDOW ELEVATION TYPES
SCALE: SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

MARK	DOOR PANEL OPENING PAIR/SING	SIZE W x H W	H	ELEV.	MATL.	DOOR FRAME ELEV.	MATL.	DETAILS HEAD	JAMB	THRESHOLD	H.W.	FIRE RATING LABEL	REMARKS
134.1	SING	3'-0"	7'-0"	F	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	1	20MIN	
134.2	SING	3'-0"	7'-0"	F	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	1	20MIN	
134.6	SING	3'-0"	7'-0"	L	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	2	--	
134.7	SING	3'-0"	7'-0"	L	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	2	--	
134.8	PAIR	6'-0"	7'-0"	F	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	1		
134.9	SING	3'-0"	7'-0"	F	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	1		
134.10	SING	3'-0"	7'-0"	F	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	1		
150	SING	3'-0"	7'-0"	L	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	3	20MIN	
176	SING	3'-0"	7'-0"	F	HM	1	HM						
177	SING	3'-0"	7'-0"	F	HM	1	HM						
187	SING	3'-0"	7'-0"	F	HM	1	HM						
188	SING	3'-0"	7'-0"	F	HM	1	HM						
B10	SING	3'-0"	7'-0"	F	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	1	20MIN	
B15	SING	3'-0"	7'-0"	F	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	1	20MIN	
C9	SING	3'-0"	7'-0"	F	HM	1	HM	13/A9.00	14/A9.00	25/A9.00	1	20MIN	

2 DOOR SCHEDULE
SCALE: NOT TO SCALE

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

PBK
ARCHITECT PBK Architects, Inc.
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1110 Iron Point Road, Suite 200
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GEORGE WASHINGTON ES MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
DSA APP No. 02-121905

LODI UNIFIED SCHOOL DISTRICT

G	H	J
D	E	F
A	B	C

KEY PLAN — PLAN NORTH — TRUE NORTH

L'CENSED ARCHITECT
LEONA M. KETTERL
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK
REVISIONS

#	DESCRIPTION	DATE

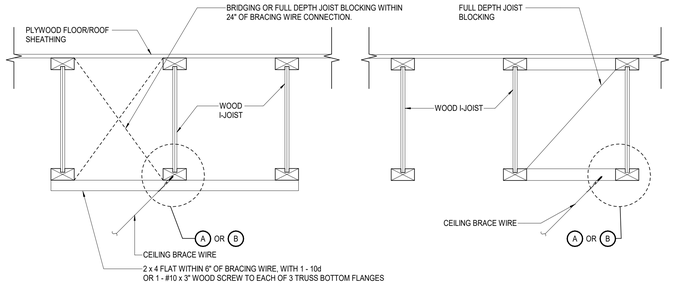
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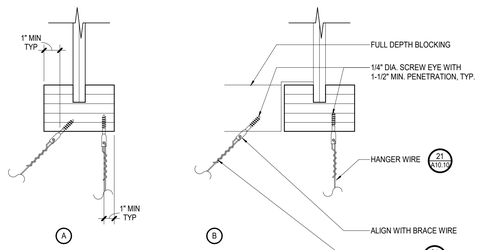
DETAILS AND SCHEDULES

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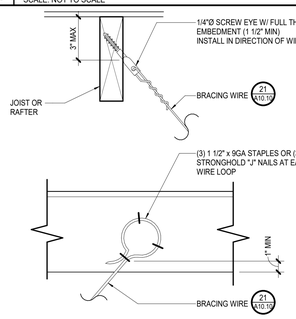
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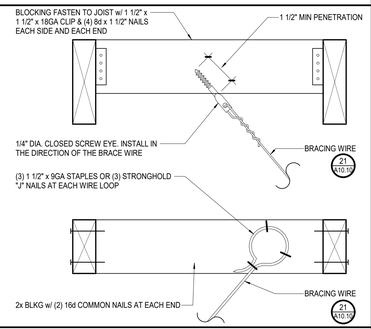




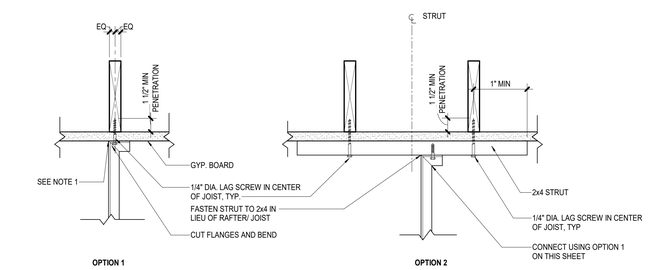
NOTES:
1. DO NOT INSERT SCREW EYES PARALLEL TO LAMINATIONS
2. WHEN FIRE RATED GYP BD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREWS EYED w/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP BD AND MEET MINIMUM PENETRATION.

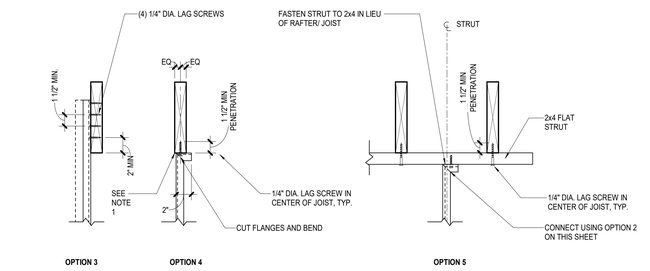
23 BRACING WIRE ATTACHMENT TO WOOD I-JOIST
SCALE: NOT TO SCALE





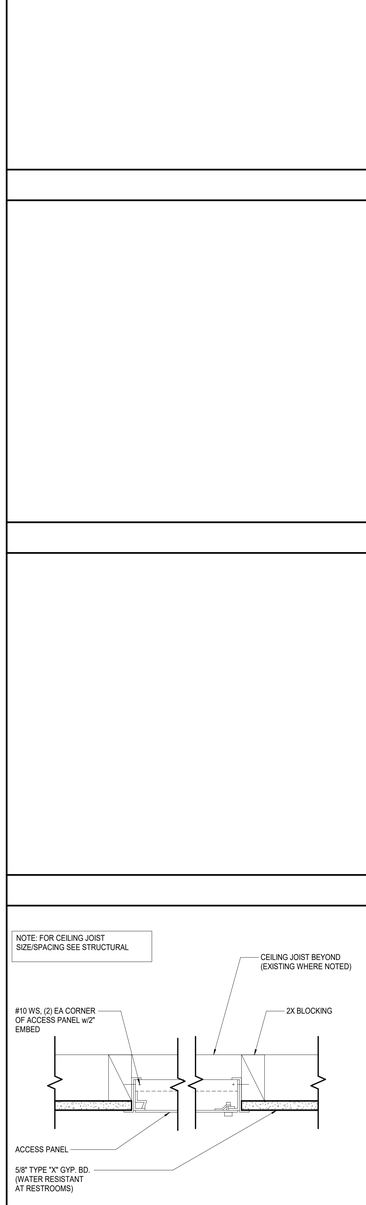
17 BRACING WIRE ATTACHM'T TO FRAMING
SCALE: NOT TO SCALE





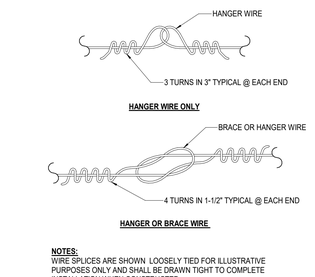
CHANNEL STRUT

NOTES:
1. WEB OF CHANNEL TO BARE WITHIN WIDTH OF THE WOOD MEMBER.
2. FOR ANGLE OF ORIENTED IN THE STANDARD POSITION, VERTICAL LEG TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. ATTACHMENT TO I-JOIST SIMILAR TO OPTIONS 1, 2, 4, & 5.



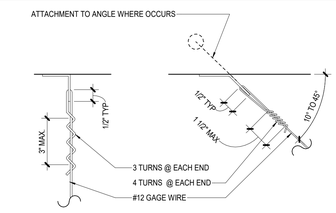
6 ACCESS PANEL
SCALE: 3" = 1'-0"

5 COMPRESSION STRUT ATTACHMENT
SCALE: 1 1/2" = 1'-0"



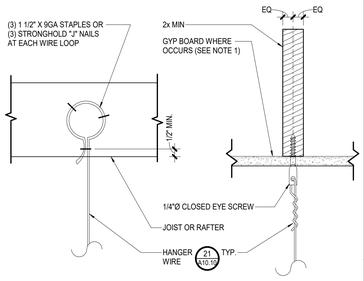
NOTES:
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

27 HANGER / BRACE WIRE SPLICE
SCALE: NOT TO SCALE

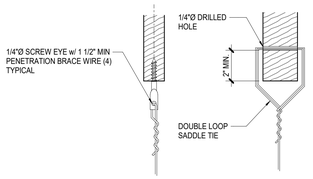


NOTES:
1. FOR HANGER/BRACE WIRE SPLICE, SEE 27 A10.10

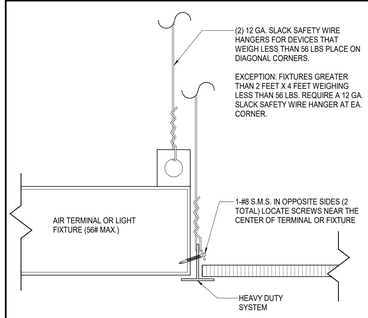
21 HANGER / BRACING WIRE
SCALE: 3" = 1'-0"



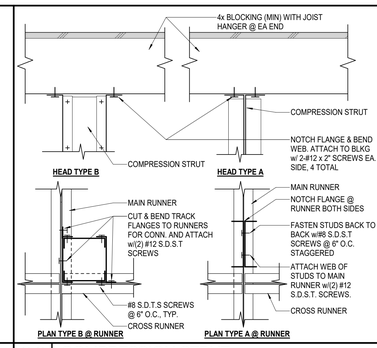
NOTE:
1. WHEN FIRE RATED GYP BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES w/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP BOARD AND MEET MIN PENETRATION.



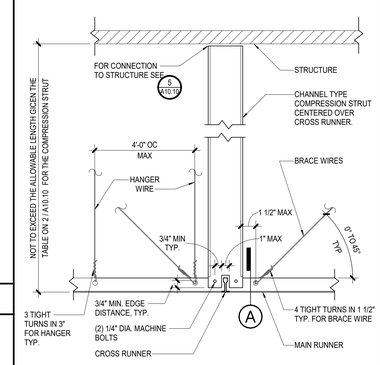
9 HANGER WIRE ATTACHM'T TO FRAMING
SCALE: 3" = 1'-0"

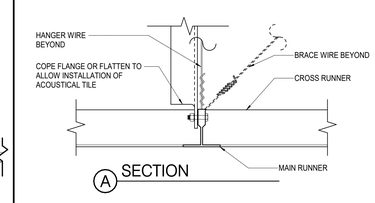


3 LIGHT FIXTURES / AIR TERMINALS
SCALE: 3" = 1'-0"



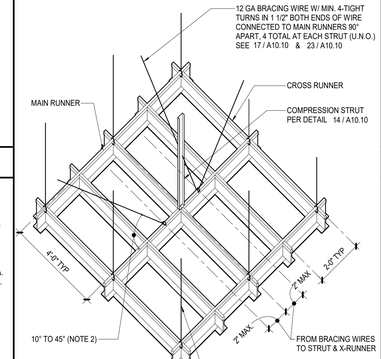
26 COMPRESSION STRUT
SCALE: 1 1/2" = 1'-0"





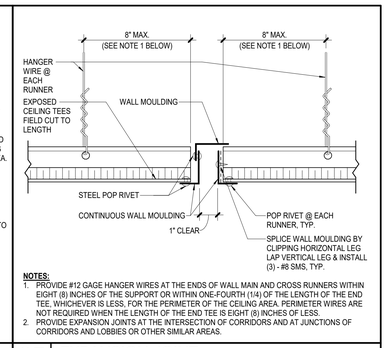
14 COMPRESSION STRUT
SCALE: NOT TO SCALE

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5' - 0"
250S137-33	6' - 10"
362S137-33	8' - 0"
250137-43	8' - 10"
400S137-43	10' - 10"
2 - 250T200-33, SEE PLAN 26A A10.10	15' - 0"
4 - 350T125-33, SEE PLAN 26B A10.10	23' - 0"



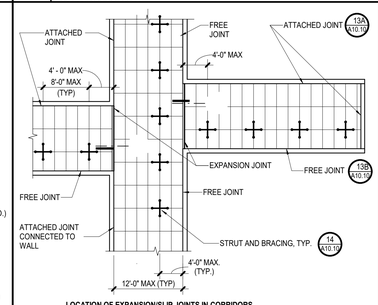
NOTE:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURE, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.
3. 6" CLEARANCE REQUIRED BETWEEN STRUT & SHALL UNBRACED DUCTS, PIPE, CONDUIT, ETC..
4. FOR PERIMETER ATTACHMENT DETAIL, SEE 13 / A10.10

2 COMPRESSION STRUT TABLE
SCALE: NOT TO SCALE

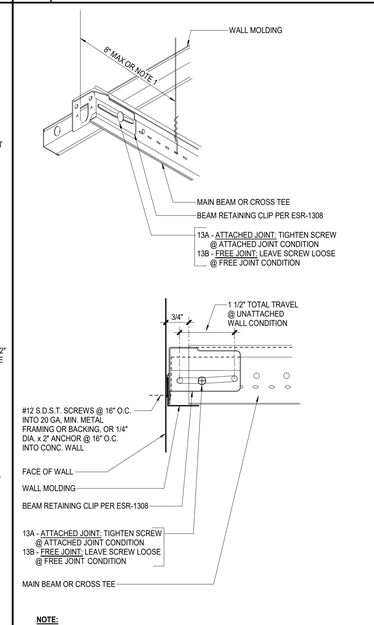


NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF WALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OF LESS.
2. PROVIDE EXPANSION JOINTS AT THE INTERSECTION OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS.

13 PERIMETER CEILING ATTACHMENT
SCALE: NOT TO SCALE



LOCATION OF EXPANSION/SLIP JOINTS IN CORRIDORS



NOTE:
1. 1/4 LENGTH OF END TEE, WHICHEVER IS LESS.
2. GRID MEMBERS SHALL BE ATTACHED TO TWO ADJACENT WALLS, AND UNATTACHED AT OPPOSITE WALLS.

25 EXPANSION JOINT
SCALE: NOT TO SCALE

NOTE:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.
2. PROVIDE EXPANSION JOINT(S) AS REQUIRED SO THAT NO CEILING AREA EXCEEDS 2,500 S.F.

1 TYPICAL CEILING PLAN
SCALE: NOT TO SCALE

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
DSA APP No. 02-121905

LODI UNIFIED SCHOOL DISTRICT

G	H	J
D	E	F
A	B	C

KEY PLAN — PLAN NORTH / TRUE NORTH

LICENSED ARCHITECT
LEONA M. KETTER
C-38823
REN. 09-30-25
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 07/30/2024
DRAWN BY: MG CHKED BY: LK
REVISIONS

#	DESCRIPTION	DATE

DSA APP No. 02-121905

This document is for plan review only

CEILING DETAILS

A10.10

ABBREVIATIONS AND LEGEND

010000-0002

AB	ANCHOR BOLT	INT	INTERIOR
ABV	ABOVE	IOR	INSPECTOR OF RECORD
ADDL	ADDITIONAL	JST	JOIST
ADJ	ADJACENT	JT	JOINT
AFF	ABOVE FINISH FLOOR	KLF	KIPS PER LINEAR FOOT
ALT	ALTERNATE	KSF	KIPS PER SQUARE FOOT
ARCH	ARCHITECT(URAL)	KSI	KIPS PER SQUARE INCH
BLDG	BUILDING	L	ANGLE
BLK	BLOCK	LD	DEVELOPMENT LENGTH
BLKG	BLOCKING	LDH	HOOK DEVELOPMENT LENGTH
BLW	BELOW	LFRS	LATERAL FORCE RESISTING SYSTEM
BM	BEAM		
BN	BOUNDARY NAILING	LLH	LONG LEG HORIZONTAL
B.O.	BOTTOM OF	LLV	LONG LEG VERTICAL
BOTT	BOTTOM	LONG	LONGITUDINAL
BRB	BUCKLING-RESTRAINED BRACE	LP	LOW POINT
BRG	BEARING	LS	LAP SPLICE
BS	BOTH SIDES	LWC	LIGHTWEIGHT CONCRETE
BTWN	BETWEEN	MAX	MAXIMUM
C	CAMBER	MB	MACHINE BOLT
CG	CENTER OF GRAVITY	MECH	MECHANICAL
CIP	CAST IN PLACE	MFR	MANUFACTURER
CJ	CONTROL/CONSTRUCTION JOINT	MIN	MINIMUM
CJP	COMPLETE JOINT PENETRATION	MTL	METAL
CL	CENTERLINE	(N)	NEW
CLG	CEILING	NA	NEUTRAL AXIS
CLR	CLEAR	NS	NEAR SIDE OR NON-SHRINK
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
COL	COLUMN	NWC	NORMALWEIGHT CONCRETE
CONC	CONCRETE	OC	ON CENTER
CONN	CONNECTION	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS	O.F.	OUTSIDE FACE
CSK	COUNTERSINK, COUNTERSUNK	OH	OPPOSITE HAND
CTR(D)	CENTER(ED)	OPNG	OPENING
D_B, DB	BAR DIAMETER OR BOLT DIAMETER	PDF	POWDER/POWER DRIVEN FASTENER
DBL	DOUBLE		
DEMO	DEMOLITION	PJ	PANEL JOINT
DET	DETAIL	PJP	PARTIAL JOINT PENETRATION
DIA, Ø	DIAMETER	PL	PLATE
DIAG	DIAGONAL	PLC(S)	PLACE(S)
DIM	DIMENSION	PLF	POUNDS PER LINEAR FOOT
DIR	DIRECTION	PLYWD	PLYWOOD
DO	DITTO	PREFAB	PREFABRICATED
DWG	DRAWING	PSF	POUNDS PER SQUARE FOOT
(E)	EXISTING	PSI	POUNDS PER SQUARE INCH
EA	EACH	PT	PRESSURE TREATED OR POST TENSION
EF	EACH FACE		
EJ	EXPANSION JOINT	QTY	QUANTITY
EMBED	EMBEDMENT	RAD, R	RADIUS
ELEC	ELECTRICAL	REF	REFERENCE
ELEV	ELEVATION OR ELEVATOR	REINF	REINFORCING
EN	EDGE NAILING	REQD	REQUIRED
E.O.	EDGE OF	(S)	"SIMPSON" STRONG TIE CO. OR "USP" W/ EQUIVALENT THIRD PARTY EVALUATION VALUES
EOD	EDGE OF DECK		
EQ	EQUAL		
EQUIP	EQUIPMENT	SB	SILL BOLT
ES	EACH SIDE OR EDGE SCREW	SC	SAW CUT OR SLIP-CRITICAL
EW	EACH WAY	SCHED	SCHEDULE
EXP	EXPANSION	SEOR	STRUCTURAL ENGINEER OF RECORD
EXT	EXTERIOR		
FIN	FINISH	SHTG	SHEATHING
FLG	FLANGE	SIM	SIMILAR
FLR	FLOOR	SMS	SHEET METAL SCREW
FN	FIELD NAILING	SN	SILL NAIL
FND	FOUNDATION	SOG	SLAB ON GRADE
F.O.	FACE OF	SQ	SQUARE
FS	FAR SIDE OR FIELD SCREW	SS	STAINLESS STEEL
FRMG	FRAMING	STD	STANDARD
FRP	FIBER REINFORCED POLYMER	STGRD	STAGGERED
FT	FOOT OR FEET	STIFF	STIFFENER
FTG	FOOTING	STL	STEEL
Fy	YIELD STRESS	STRUCT	STRUCTURAL
GA	GAGE	T&B	TOP & BOTTOM
GALV	GALVANIZED	T&G	TONGUE AND GROOVE
GB	GRADE BEAM	THK	THICK
GC	GENERAL CONTRACTOR	THRD	THREADED
GLB	GLUED-LAMINATED BEAM	T.O.	TOP OF
HAB	HEADED ANCHOR BOLT	TRANS	TRANSVERSE
HD	HOLDOWN	TYP	TYPICAL
HDG	HOT-DIPPED GALVANIZED	UNO	UNLESS NOTED OTHERWISE
HDR	HEADER	VERT	VERTICAL
HGR	HANGER	VIF	VERIFY IN FIELD
HK	HOOK	W	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HP	HIGH POINT	WF, W	WIDE FLANGE
HS	HIGH-STRENGTH	WHS	WELDED HEADED STUD
HSB	HIGH-STRENGTH BOLT	WLD	WELDED
HSS	HOLLOW STRUCTURAL SECTION	WO	WHERE OCCURS
HT	HEIGHT	WP	WORK POINT
ID	INSIDE DIAMETER	WT	WEIGHT
I.F.	INSIDE FACE	WWF	WELDED WIRE FABRIC
IN	INCH		

REFERENCE ELEVATION OR WORK POINT

LFRS (LFRS) INDICATES THAT A DETAIL OR PORTION OF FRAMING IS A PART OF THE LATERAL FORCE RESISTING SYSTEM AND IS SUBJECT TO ADDITIONAL REQUIREMENTS OUTLINED IN THE GENERAL NOTES AND SPECIFICATIONS

TYPICAL HATCH PATTERNS USED (UNLESS NOTED OTHERWISE):

CONCRETE | STEEL | SOIL/EARTH

MASONRY | GROUT/SAND | PLYWOOD/SHEATHING

EXISTING ELEMENTS ARE SHOWN AS HALFTONE, NEW ELEMENTS ARE SHOWN AS FULL TONE UNO; EXAMPLE:

INDICATES A NEW ELEMENT

INDICATES AN EXISTING ELEMENT

SAWN LUMBER:

CONTINUOUS | BLOCKING | END OF MEMBER

REFERENCE OF SECTIONS, DETAILS & SYMBOLS

010000-0004

DETAIL REFERENCE SHOWN THUS *:

2 / S5.01 **

DETAIL NOTED IS SHOWN ON SHEET S5.01, DETAIL 2

BUILDING SECTION INDICATION SHOWN THUS:

2 / S5.01 **

CUT IS SHOWN ON SHEET S5.01, DETAIL 2

ELEVATION INDICATION SHOWN THUS:

2 / S5.01 **

ELEVATION IS SHOWN ON SHEET S5.01, DETAIL 2

* (ADDITIONAL INDICATORS MAY BE USED TO SHOW LOCATION OF DETAIL CUTS)

** (SHEET NUMBER MAY BE REPLACED BY A HYPHEN (-) WHEN THE REFERENCED DETAIL APPEARS ON THE SAME SHEET AS THE CALL-OUT)

DETAIL TITLE SHOWN THUS:

2 DETAIL TITLE
SCALE

INDICATES THE TITLE, SCALE, AND DETAIL NUMBER ON SHEET

STRUCTURAL SUBMITTALS

010000-0006

1. 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.

2. THE FOLLOWING LIST SUMMARIZES REQUIRED 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
- SEISMIC JOINT AND EXPANSION JOINT COVER PRODUCT DATA

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
- SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS
- MINUTES FROM PREINSTALLATION CONFERENCE

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

EXISTING CONDITIONS

020000-0000

1. SEE "AS BUILT" DRAWINGS FOR EXISTING BUILDING ITEMS NOT SHOWN OR NOTED.
2. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO SHOP DRAWING PRODUCTION AND FABRICATION OF STRUCTURAL ELEMENTS.
3. WHERE EXISTING CONDITIONS VARY 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 IS BY OTHERS.
5. ALL EXISTING CONCRETE SURFACES TO BE IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED AND ROUGHENED TO 1/4" MINIMUM AMPLITUDE. USE BONDING AGENT BY SIKA OR APPROVED EQUIVALENT ON EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE, PREPARE SURFACE AND APPLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. VERIFY LOCATION OF EXISTING REBAR BEFORE FABRICATION USING NON-DESTRUCTIVE TESTING. DO NOT DAMAGE EXISTING REBAR.
7. THE GENERAL CONTRACTOR SHALL COORDINATE THE WEIGHT AND SPECIFIC LOCATION OF ALL 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.

STRUCTURAL TESTS AND SPECIAL INSPECTIONS

010000-0005/0006

1. THE OWNER SHALL EMPLOY ONE OR MORE DSA APPROVED SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF DSA, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. SEE DSA FORM DSA 103 FOR ALL REQUIRED STRUCTURAL TESTS AND SPECIAL INSPECTIONS.
3. ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR DSA DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
4. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO DSA AND SEOR, AOR, CONTRACTOR AND SCHOOL DISTRICT. THE FINAL REPORT BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
6. WORK REQUIRING SPECIAL INSPECTION SHALL BE OBSERVED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION, PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.

STRUCTURAL OBSERVATIONS

010000-0007

1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, SEOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE. VISUAL OBSERVATIONS SHALL NOT BE CONSIDERED AS A SUBSTITUTE FOR THE SPECIAL INSPECTION REQUIREMENTS.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE SEOR AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE BUSINESS DAYS IN ADVANCE.
3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:
   a. FOUNDATION REBAR AND ANCHORS - PRIOR TO FIRST POUR OF CONCRETE
   b. STRUCTURAL FRAMING - AFTER ERECTION AND PRIOR TO CLOSING IN
   c. RAISED FLOOR SLABS AND REBAR - PRIOR TO FIRST POUR OF CONCRETE
   d. ROOF NAILING - PRIOR TO INSTALLATION OF ROOFING AND CRICKETS
   e. COMPLETION OF THE STRUCTURAL SYSTEM
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ONSITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.
5. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVERS' KNOWLEDGE, HAVE NOT BEEN RESOLVED.

PRODUCT REPORTS

010000-0006

1. FOR ALL ITEMS IN THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT NAME OR MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A PRODUCT SPECIFIED IN THE TABLE BELOW.
2. THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT REPORTS, UNO.
3. A PRODUCT MAY BE SUBSTITUTED FOR AN EQUIVALENT PRODUCT PER THE SCHEDULE BELOW IF APPROVED BY THE SEOR AND THE BUILDING OFFICIAL.
4. PRODUCTS SPECIFIED BY TYPE ONLY MAY USE ANY PRODUCT FROM THE SCHEDULE BELOW.

TYPE	PRODUCT	ICC#	IAPMO#	LARR#
EXPANSION ANCHOR TO CONCRETE	HILTI KWIK BOLT TZ	ESR-1917	-	25701
	HILTI KWIK BOLT TZ2	ESR-4266	-	-
	HILTI KWIK BOLT 1	-	0678	-
	MKT SZ	ESR-3173	-	-
	SIMPSON STRONG-BOLT 2	ESR-3037	-	25891
	DEWALT POWER STUD+ SD1	ESR-2818	-	25787
	DEWALT POWER STUD+ SD2/SD4/SD6	ESR-2502	-	25831
ADHESIVE ANCHOR TO CONCRETE	HILTI HIT-HY 200	ESR-3187	-	25964
	HILTI HIT-HY 200 V3	ESR-4868	-	-
	HILTI HIT-RE 500 V3	ESR-3814	-	26028
	HILTI HIT-RE 100	ESR-3829	-	26027
	HILTI HIT-HY-100	ESR-3572	-	-
	SIMPSON SET-3G	ESR-4057	-	-
	SIMPSON SET-XP	ESR-2508	-	-
	SIMPSON AT-XP	-	0263	-
	DEWALT PE1000+	ESR-2583	-	25849
	DEWALT AC200+	ESR-4027	-	-
	DEWALT PURE 110+	ESR-3298	-	26035
SCREW ANCHOR TO CONCRETE	HILTI KWIK HUS-EZ	ESR-3027	-	25897
	SIMPSON TITEN HD	ESR-2713	-	-
	SIMPSON SS TITEN SCREW	-	0493	26125
	DEWALT SCREWBOLT+	ESR-3889	-	-
CONCRETE SCREW	SIMPSON SS TITEN 2	-	0449	-
	ITW BUILDEX TAPCON	ESR-2202	-	-
	DEWALT ULTRACON+	ESR-3068	-	-
	SIMPSON TITEN TURBO (TNT)	-	0712	-
SHOTPIN (POWER DRIVEN FASTENER) **	HILTI LOW-VELOCITY	ESR-2269	-	25675
	ITW / RAMSET POWER-DRIVEN	ESR-1799	-	22668
	SIMPSON POWER-ACTUATED PDPA	ESR-2138	-	25469
	DEWALT TRACK-IT C5	ESR-3275	-	25920
	DEWALT POWER-DRIVEN	ESR-2024	-	25304
CONCRETE REINFORCING HEADED END *	HRC 555 HEADED BARS	ESR-2935	0177	25815
	LENTON TERMINATOR D14	-	0188	25893
	BAR SPLICE BUTTON HEAD	-	0331	25996
	DEXTRA BARTEC	ESR-2166	-	25884
CONCRETE REINFORCING MECHANICAL SPLICES	HRC 500 COUPLERS	ESR-2764	-	25347
	LENTON THREADED COUPLERS	-	0129	24507
	BAR SPLICE ZAP SCREWLOK TYPE 2	ESR-3517	-	25366
	BAR SPLICE BPI-GRIP XL	ESR-2299	-	25011
	DEXTRA BARTEC	ESR-1705	-	25615
	DAYTON SUPERIOR BAR-LOCK	ESR-2495	-	25342
WOOD FRAMING CLIPS	SIMPSON STRONG-TIE CLIPS	ESR-2523	-	-
	USP STRUCTURAL CONNECTORS	ESR-2685	-	-
WOOD SCREWS	SIMPSON STRONG DRIVE SCREWS (SDS)	ESR-2236	-	25711
	SIMPSON SD TIMBER SCREWS (SDWS/SDWH)	-	0192	25906
	FASTENMASTER TIMBERLOK / HEADLOK / LEDGERLOK	ESR-1078	-	-

FOOTNOTES:

* ANY CONCRETE REINFORCING HEADED END COMPLYING WITH ASTM A970 MAY BE USED.

** ANY SHEET METAL SCREW COMPLYING WITH ASTM C1513, SELF-DRILLING AND TAPPING TYPE, WITH HEAD TYPE APPROPRIATE TO THE APPLICATION, MAY BE USED.

*** AT TREATED LUMBER, PROVIDE GALVANIZED FASTENERS IN ACCORDANCE WITH PRODUCT REPORTS.

GENERAL

010000-0000

1. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE SEOR PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.
2. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS AS PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER GENERAL NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.
3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT OF RECORD OR SEOR. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS AND TO THE CENTERLINE OF COLUMNS UNO.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE SEOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS, OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS, PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOT ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE SCOPE THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
5. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR SEOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.
6. SUBSTITUTION REQUESTS FOR MATERIALS AND PRODUCTS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS AND PRODUCTS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE SEOR DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE SEOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL OR PRODUCT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, SEOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
8. ALL WORK IS NEW (N) UNLESS INDICATED AS EXISTING (E).
9. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.
10. SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY TO THE SEOR FOR REVIEW PRIOR TO FABRICATION (ALLOW FOR A REVIEW DURATION OF 10 BUSINESS DAYS). REFER TO THE PROJECT SPECIFICATIONS FOR MORE INFORMATION. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE SEOR IS FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. REPRODUCTION OF STRUCTURAL PLANS AND DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS. SHOP DRAWINGS THAT ARE REPRODUCTIONS OF STRUCTURAL DRAWINGS WILL NOT BE REVIEWED. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING AND FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS, INCLUDING COORDINATION WITH OTHER TRADES. 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.
11. CORE DRILLS SHALL NOT CUT ANY REINFORCING. THE CONTRACTOR IS TO COORDINATE WORK OF ALL TRADES TO ENSURE COMPLIANCE. ALL CORE DRILLS ARE TO BE PRESENTED TO THE INSPECTOR OF RECORD (IOR) FOR VERIFICATION. THE IOR IS TO DOCUMENT CORES EXAMINED INDICATING AN ABSENCE OF REINFORCING.
12. STRUCTURAL JOINT DIMENSIONS SHOWN ON PLANS (EXPANSION, SEISMIC, SEPARATION, ETC) (WHERE OCCURS) INDICATE THE MINIMUM CLEAR DISTANCE REQUIRED. SEE PLANS, DETAILS, AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL DESIGN CRITERIA

010000-0001

1. CODES:
   ALL NEW WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2022 EDITION (TITLE 24, PART 2), INCLUDING ALL AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE. THE PURPOSE OF THIS CODE IS TO, IN PART, ESTABLISH THE MINIMUM REQUIREMENTS TO SAFEGUARD THE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE THROUGH STRUCTURAL STRENGTH AND STABILITY. STRUCTURES DESIGNED IN ACCORDANCE WITH THE CODE ARE LIKELY TO HAVE A LOW PROBABILITY OF COLLAPSE BUT MAY SUFFER SERIOUS STRUCTURAL AND NON-STRUCTURAL DAMAGE IF SUBJECTED TO THE DESIGN EARTHQUAKE.

2. GRAVITY		
	LIVE LOADS (REDUCIBLE, UNO)	
	ROOF, UNIFORM	20 PSF
3.	RISK CATEGORY	III
4.	SEISMIC	
	IMPORTANCE FACTOR I_e	1.25
	SITE CLASS	D - DEFAULT
	SEISMIC DESIGN CATEGORY	D
	S_S	0.617
	S_1	0.26
	S_{DS}	0.537
	S_{D1}	0.294
	LATERAL FORCE RESISTING SYSTEM	WOOD SHEARWALLS
5.	WIND	
	EXPOSURE CATEGORY	C
	BASIC WIND SPEED (3 SECOND GUST)	Vult = 100 MPH Vasd = 77 MPH
	INTERNAL PRESSURE COEFFICIENT, GCpi	+/-0.18

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
S0.01	GENERAL NOTES
S0.02	GENERAL MATERIAL NOTES
S0.11	TYPICAL FOUNDATION & SOG DETAILS
S0.61	TYPICAL WOOD DETAILS
S1.00	OVERALL PLAN
S1.01	PARTIAL FOUNDATION PLANS
S1.02	PARTIAL FOUNDATION PLANS
S1.11	PARTIAL ROOF FRAMING PLANS
S1.12	PARTIAL ROOF FRAMING PLANS
S2.01	FOUNDATION & WOOD FRAMING DETAILS

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

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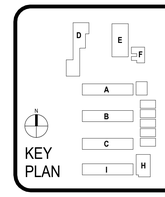
M23010119_R21

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
CONSTRUCTION DRAWINGS

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/15/2024
DRAWN BY: AJR CHKED BY: RM

REVISIONS

#	DESCRIPTION	DATE

CONSTRUCTION DRAWINGS

GENERAL NOTES

This document is for plan review only

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POST-INSTALLED ANCHOR TESTING

030500-0000-DSA/OSHPD

1. 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.

2. TEST QUANTITY OF POST-INSTALLED ANCHORS AS NOTED BELOW:

APPLICATION	QUANTITY
SILL PLATES	10%
NON-STRUCTURAL (EQUIPMENT ANCHORAGE, ETC.)	50%
STRUCTURAL	100%

3. APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF 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.

4. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR.

5. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING OR RESTRICTED FROM A CONCRETE SHEAR CONE TYPE FAILURE MECHANISM.

6. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

7. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   a. HYDRAULIC RAM METHOD: 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 DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.
   b. TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE MANUFACTURER RECOMMENDED TORQUE WITHIN 1/2 TURN OF THE NUT.
      EXCEPTIONS:
      i. WEDGE OR SLEEVE TYPE: ONE-QUARTER TURN OF THE NUT FROM 3/8" SLEEVE ANCHOR ONLY.
      ii. THREADED TYPE: ONE-QUARTER TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.

8. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. IF THE ANCHORS ARE USED FOR THE SUPPORT AND BRACING OF NON-STRUCTURAL COMPONENTS (PIPE, DUCT OR CONDUIT), THE TWENTY SHALL BE ONLY THOSE ANCHORS INSTALLED BY THE SAME TRADE.

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

10. AN ACI-CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER IS REQUIRED FOR THE INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL AND OVERHEAD CONDITIONS.

11. TEST LOADS:

ANCHOR		TORQUE (FT-LBS)
TYPE	SIZE (IN)	
HILTI KB-TZ2	3/8	30
HILTI KB-TZ2	1/2	50
HILT KB-TZ2	5/8	40

STRUCTURAL CONCRETE

033100-0000

1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318 AND ACI 301 AND PROJECT SPECIFICATIONS.

2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO 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 DOES NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.

3. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. LOCATIONS OF CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL TO THE SEOR PRIOR TO PLACING ANY CONCRETE.

4. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN 28-DAY COMP STRENGTH	CONC TYPE	MAX AGGREGATE SIZE	MAX W/C RATIO
INTERIOR SLAB ON GRADE NOT EXPOSED TO WEATHER OR RECEIVING ADHERED FLOORING FINISH	4000 PSI	NWC	1"	0.50
ALL OTHER STRUCTURAL CONCRETE NOT NOTED ABOVE	3000 PSI	NWC	1"	0.50

   a. MAXIMUM AIR DRY UNIT WEIGHT OF LIGHTWEIGHT CONCRETE SHALL NOT EXCEED 115 PCF, UNLESS APPROVED BY SEOR.
   b. WHEN THE USE OF PLASTICIZER (ASTM C1017, TYPE I OR II) OR WATER REDUCER (ASTM C494, TYPE F OR G) IS USED, MAXIMUM SLUMP SHALL BE 4" PRIOR TO ADMIXTURE AND 8" INCLUDING ADMIXTURE AT THE POINT OF DELIVERY. IN THE ABSENCE OF PLASTICIZER AND WATER REDUCER, SLUMP AT THE POINT OF DELIVERY SHALL NOT EXCEED 4".
   c. W/C RATIO INDICATES WATER TO CEMENTITIOUS MATERIALS RATIO.
   d. SLABS ON GRADE, TOPPING SLABS, AND ELEVATED CONCRETE FLOORS SHALL HAVE A MAXIMUM SHRINKAGE RATE OF 0.04% AT 28 DAYS PER ASTM C157 (CURING TEST SPECIMENS TO BE CONSISTENT WITH FIELD CONDITIONS), OR USING EMBEDDED VIBRATING WIRE STRAIN GAUGES. RESULTS OF TESTING SHALL BE SUBMITTED TO ENGINEER.
   e. SEE ACI 318 FOR ADDITIONAL REQUIREMENTS REGARDING MAXIMUM AGGREGATE SIZE. AGGREGATE GRADATION OF 3/8" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED WHERE FINISHED CONCRETE SURFACE IS EXPOSED TO VIEW.

5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED PER ACI 318 BY A RECOGNIZED TESTING LAB STAMPED AND SIGNED BY A LICENSED ENGINEER AND SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT.

6. AGGREGATES IN NORMALWEIGHT CONCRETE SHALL CONFORM TO ASTM C33 (HARDROCK). AGGREGATES IN LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C330.

7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE SEOR.

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

9. 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.

10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.

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

12. DRYPACK OR NONSHRINK 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 GRAVEL. 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.

14. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.

15. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSIVE STRENGTH OF 2000 PSI MINIMUM AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST CURE FOR A MINIMUM OF 3 DAYS.

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

17. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC.

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

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

NAILING SCHEDULE

061000-0001

(UNLESS OTHERWISE NOTED ON PLANS)

COMMON NAILS SHALL BE USED FOR NAILING AT TYPICAL CONNECTIONS NOTED BELOW (UNO).

CONNECTION, NAIL TYPE	NAILING
JOISTS TO SILL OR GIRDER, TOENAIL	(3) 8d
JOISTS TO RIM JOIST, FACE NAIL	(3) 16d
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d
BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE, TOENAIL	(3) 8d
1" x 6" OR NARROWER SUBFLOOR TO EACH JOIST, FACE NAIL	(2) 8d
WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST, BLIND AND FACE NAIL	(3) 8d
2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	(2) 16d
SILL PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16"OC
TOP PLATE TO STUD, END NAIL	(2) 16d, TYP, UNO (4) 16d @ 2x10 STUDS
STUD TO SILL PLATE	(4) 8d TOENAIL OR (2) 16d END NAIL, TYP, UNO (7) 8d TOENAIL OR (4) 16d END NAIL @ 2x10 STUDS...
DOUBLE STUDS, FACE NAIL	16d @ 24"OC
DOUBLE TOP PLATES, FACE NAIL	16d @ 16"OC
TOP PLATES, LAPS, FACE NAIL	(8) 16d, UNO (18) 16d @ SHEARWALL LOCATIONS, UNO
TOP PLATES AT INTERSECTIONS, FACE NAIL	(2) 16d
CONTINUOUS HEADER, TWO PIECES	16d @ 16"OC ALONG EA EDGE
CEILING JOISTS TO PLATE, TOENAIL	(3) 8d
CONTINUOUS HEADER TO STUD, TOENAIL	(4) 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
RAFTER TO PLATE, TOENAIL	(3) 8d
RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6"OC
JACK RAFTER TO HIP, FACE NAIL	(2) 16d
1" BRACE TO EACH STUD & PLATE, FACE NAIL	(2) 8d
ROOF RAFTER TO 2x RIDGE BEAM, FACE NAIL	(2) 16d
1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL	(3) 8d
WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	(3) 8d
2" PLANKS	16d @ EA BEARING
BUILT-UP CORNER STUDS	16d @ 24"OC
BUILT-UP GIRDERS AND BEAMS	20d @ 32"OC @ TOP & BOTT & STGRD (2) 20d @ ENDS & @ EA SPLICE (2) 16 @ EA BEARING

NAIL SCHEDULE (COMMON NAILS)		
SIZE	DIAMETER (IN)	LENGTH (IN)
8d	0.131	2 1/2
10d	0.148	3
12d	0.148	3 1/4
16d	0.162	3 1/2
20d	0.192	4

POST-INSTALLED ANCHORS AND DOWELS

030500-0000

UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING APPLIES TO ALL POST-INSTALLED ANCHORS INTO HARDENED CONCRETE OR MASONRY, WHICH INCLUDES TYPES SUCH AS EXPANSION, WEDGE, SLEEVE, ADHESIVE/EPOXY, SHOT-PIN, SCREW AND UNDERCUT.

1. INSTALL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) EXCEPT AS OTHERWISE STATED IN THE SPECIFIED PRODUCT REPORTS. USE INSTALLATION PROCEDURES FOR CRACKED CONCRETE CONDITIONS. DO NOT USE CORE DRILL BITS FOR ANCHOR HOLES WITHOUT PRIOR SEOR APPROVAL. COPIES OF INSTALLATION INSTRUCTIONS SHALL BE MAINTAINED ON SITE.

2. CLEAN OUT ANCHOR HOLES AND SET ANCHORS PER THE PRODUCT'S THIRD PARTY EVALUATION REPORT FOR THE APPROPRIATE CONDITIONS. INSTALL UNDER SUPERVISION OF THE SPECIAL INSPECTOR WHERE REQUIRED.

3. PROVIDE CARBON STEEL ANCHORS AT DRY INTERIOR LOCATIONS AND STAINLESS STEEL TYPE 304 OR 316 AT EXTERIOR LOCATIONS AND DAMP INTERIOR LOCATIONS.

4. REINFORCING BARS TO RECEIVE CONCRETE COVER MAY BE UNCOATED.

5. ANCHORS SHALL BE CLEAN AND FREE OF DEBONDING SUBSTANCES.

6. EMBEDMENT REFERS TO THE FINAL INSTALLED EFFECTIVE DEPTH "Hef" AS DEFINED IN THE PRODUCT REPORT. REQUIRED ANCHOR HOLE DEPTH FOR INSTALLATION MAY BE DEEPER.

7. EXISTING REINFORCING SHALL BE AVOIDED WHERE DRILLING FOR POST-INSTALLED ANCHORS OR CONCRETE DOWELS.

8. MAINTAIN A MINIMUM OF 2 INCHES FROM EXISTING CONDUIT AND POST-TENSIONING (WHERE OCCURS) PRIOR TO DRILLING, CORING, OR SHOOTING PINS INTO EXISTING CONCRETE OR MASONRY. USE NONDESTRUCTIVE TESTING TO LOCATE SUCH ITEMS.

9. WHERE THE FULL ANCHOR EMBEDMENT DEPTH, SPACING OR EDGE DISTANCE CANNOT BE ACHIEVED, NOTIFY THE SEOR AND IOR.

10. FILL ABANDONED HOLES WITH NON-SHRINK GROUT OR EPOXY. CLEAR DISTANCE BETWEEN NEW HOLES AND ABANDONED HOLES SHALL BE 2" OR TWO ANCHOR DIAMETERS, WHICHEVER IS GREATER, UNLESS OTHERWISE SPECIFIED BY SEOR. ANCHORS PENETRATING THROUGH WATERPROOFING OR VAPOR MEMBRANES SHALL BE SEALED OR FLASHED.

11. INSTALL IN DRY CONCRETE OR MASONRY HAVING A MINIMUM AGE OF 21 DAYS.

12. RE-USE OF SCREW ANCHORS AND SCREW ANCHOR HOLES IS NOT PERMITTED.

13. AN ACI-CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER IS REQUIRED FOR THE INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL AND OVERHEAD CONDITIONS.

ROUGH CARPENTRY / WOOD

061000-0000

1. ALL GRADES SPECIFIED ARE MINIMUM GRADES REQUIRED. DOUGLAS FIR-LARCH SHALL BE GRADED BY A GRADING AGENCY CERTIFIED BY THE ALSC TO THE WCLIB OR WWPA GRADING RULES, CONFORMING TO DOC PS 20. REDWOOD SHALL BE GRADED BY THE CALIFORNIA REDWOOD ASSOCIATION, REDWOOD INSPECTION SERVICE.

2. WOOD SPECIES SPECIFICATIONS ("DF" INDICATES DOUGLAS FIR-LARCH CONFORMING TO DOC PS20):

NON-LOAD-BEARING STUDS, TOP PLATES, BLOCKING, FURRING AND BRACING	DF #2
JOISTS, RAFTERS, PURLINS, BEAMS & POSTS	DF #1 (UNO)
LOAD-BEARING STUDS (UNO)	
HEIGHT NOT EXCEEDING 15'-0"	DF #2
HEIGHT EXCEEDING 15'-0"	DF #1

3. 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.

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

5. PROVIDE FIRE-RETARDANT-TREATED (FRT) LUMBER AND WOOD STRUCTURAL PANELS PER CBC SECTION 2303.2 WHERE INDICATED BY ARCHITECT.

6. WOOD MEMBERS SHALL BE PRESERVATIVE-TREATED (PT) OR NATURALLY DURABLE (WITH APPROVAL OF SEOR) WHERE EXPOSED TO WEATHER AND IN ACCORDANCE WITH CBC SECTION 2304.12. SILL PLATES SHALL BE PRESERVATIVE-TREATED DOUGLAS FIR #2. END CUTS AND HOLES IN PT SILL PLATES SHALL BE TREATED.

7. FASTENERS, INCLUDING NUTS AND WASHERS, FOR PRESERVATIVE-TREATED WOOD, WOOD EXPOSED TO WEATHER, AND FIRE- RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153. EXCEPTIONS: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MINIMUM, AND PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC-BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.

8. UNLESS NOTED OTHERWISE, SILL FASTENERS FOR INTERIOR NON-STRUCTURAL WALLS MAY BE 0.157" DIAMETER x 1 1/4" EMBED PDF's AT 16"OC.

9. SILL PLATES SHALL BE BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS AT 48" OC MAX, UNO, WITH A BOLT BETWEEN 7 x BOLT DIAMETER (4 3/8" MIN) AND 12" FROM THE END OF EACH PIECE OF SILL (2 BOLTS MIN EACH PIECE). PIECE OF SILL SHALL BE CONSIDERED ENDED WHERE PLATE IS CUT OVER ONE-THIRD OF CROSS-SECTION.

10. ANCHOR BOLTS FOR BEARING WALLS SHALL HAVE 7" EMBEDMENT (UNO) MEASURED FROM TOP OF SLAB.

11. ALL BOLTS IN WOOD SHALL BE ASTM A307 STANDARD BOLTS, UNO. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT THE COMPLETION OF THE JOB. HOLES IN WOOD AND STEEL MEMBERS FOR BOLTS SHALL BE THE NOMINAL BOLT DIAMETER PLUS 1/16".

12. ALL NAIL SPACING, EDGE DISTANCES, AND END DISTANCES SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD. HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS.

13. HOLES IN WOOD FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE SHANK. HOLES FOR THE THREADED PORTION SHALL BE BORED WITH A BIT DIAMETER EQUAL TO 40% TO 70% OF THE SHANK DIAMETER IN DOUGLAS FIR. FOR OTHER WOOD SPECIES, REFER TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).

14. LAG SCREWS AND SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE.

15. STANDARD CUT STEEL WASHERS SHALL BE PROVIDED UNDER HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS WHICH BEAR ON WOOD. SEE SHEAR WALL SCHEDULE FOR WASHER REQUIREMENTS AT SHEAR WALL SILL BOLTS WHERE OCCUR.

16. STUD BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES LAPPED AT INTERSECTIONS. JOINTS IN UPPER AND LOWER MEMBERS OF DOUBLE TOP PLATES SHALL BE STAGGERED AT LEAST 4'-0".

17. NOTCHING AND HOLES SHALL NOT BE ALLOWED EXCEPT AS DETAILED ON THESE PLANS OR AS APPROVED BY THE SEOR.

18. INSTALL WINDOWS AND DOORS IN STUD WALLS AFTER DEAD LOADS ARE APPLIED, AND PROVIDE A 1/2" SHIM SPACE AT THE HEAD CONDITION.

19. STRUCTURAL FLOOR, ROOF AND WALL SHEATHING SHALL BE APA-RATED AND SHALL CONFORM TO DOC PS1 OR PS2.

20. EXTERIOR STUD WALLS SHALL BE COMPLETELY SHEATHED WITH 15/32" SHEATHING, EXPOSURE-1 (32/16), TYPICAL, UNO.

21. INTERIOR BEARING WALLS SHALL BE SHEATHED WITH 1/2" GYP BOARD EACH SIDE, FULL HEIGHT, UNO.

22. ALL STRUCTURAL WALL SHEATHING SHALL BE SPLICED ON 2" NOMINAL BLOCKING AT HORIZONTAL JOINTS, UNO.

23. AT FLOOR FRAMING, PROVIDE BRIDGING OR FULL-HEIGHT BLOCKING AS REQUIRED BY THE BUILDING CODE.

24. STRUCTURAL FLOOR AND ROOF SHEATHING SHALL BE APA-RATED EXPOSURE-1. 1/8" GAP SHALL BE PROVIDED BETWEEN ADJACENT SHEATHING PANELS. PANELS WITH GRADE STAMP INDICATION "SIZED FOR SPACING" MAY BE USED TO FACILITATE THIS REQUIREMENT. SHEATHING AT EXTERIOR DECKS SHALL BE EXTERIOR RATED PLYWOOD.

25. AT FLOOR APPLICATIONS, ATTACH FLOOR SHEATHING TO FRAMING USING RING-SHANK NAILS AND GLUE.

FOUNDATIONS AND SLABS ON GRADE

033100-0001

1. GEOTECHNICAL REPORT INFORMATION AND DESIGN CRITERIA:

2022 CBC - TABLE 1806A.2: PRESUMPTIVE LOAD-BEARING VALUES	
GEOTECHNICAL DESIGN CRITERIA	
MINIMUM WIDTH OF FOOTINGS	12"
MINIMUM EMBEDMENT OF FOOTINGS	12"
ALLOWABLE SOIL PRESSURE, DEAD LOAD + LIVE LOAD	1,500 PSF
ALLOWABLE SOIL PRESSURE, DEAD LOAD + LIVE LOAD + LATERAL LOAD	1,500 PSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE PER FOOT OF DEPTH	100 PSF
DESIGN COEFFICIENT OF FRICTION FOR SLIDING	0.25

2. THE CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS AND CONDITIONS INDICATED IN SECTION 1804A OF THE 2022 CBC.

3. FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS, UNO.

4. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.

5. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.

6. THE DESIGN OF ALL RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS INDICATED ON THESE DRAWINGS IS BASED ON DRAINED SOILS.

7. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE SPECIFIED IN CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL SUBMIT SLAB JOINT LAYOUT TO SEOR FOR REVIEW PRIOR TO PLACING CONCRETE. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.

8. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS.

9. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING. THE ARCHITECT AND ENGINEERS 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.

10. THE SLAB ON GRADE IS NOT DESIGNED TO SUPPORT TRAFFIC FROM CRANES OR OTHER HEAVY CONSTRUCTION VEHICLES. CONTRACTOR SHALL REPAIR OR REPLACE DAMAGED CONCRETE SLABS.

REINFORCING STEEL

032000-0000

1. REINFORCING GRADES FOR CONCRETE AND MASONRY:

ALL BARS UNLESS NOTED OTHERWISE	ASTM A615 OR A706, GRADE 60
TIES AND STIRRUPS	ASTM A615 OR A706, GRADE 60
WELDED WIRE FABRIC	ASTM A1064
ALL BARS TO BE WELDED	ASTM A706, GRADE 60

2. ALL BARS SHALL BE DEFORMED.

3. MAINTAIN CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO). THE INTENT IS FOR REINFORCEMENT TO BE PLACED SO THAT IT IS AS CLOSE TO CONCRETE SURFACES AS POSSIBLE, WITHIN SPECIFIED TOLERANCES, WHILE MAINTAINING THIS MINIMUM PROTECTION. PROVIDE THE LARGEST COVER REQUIRED FOR ALL APPLICABLE CONDITIONS. WHERE #3 STIRRUPS OR TIES ARE USED, ENSURE THAT THE COVER FOR LONGITUDINAL BARS IS ADEQUATE.

CONDITION	COVER
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED AND EXPOSED TO EARTH OR WEATHER	
#6 BARS AND LARGER	2"
#5 BARS AND SMALLER	1 1/2"
UNEXPOSED RAISED SLABS AND WALL FACES (#11 BARS AND SMALLER)	3/4"
UNEXPOSED COLUMNS AND BEAMS	1 1/2"
STRUCTURAL SLABS ON GRADE	
FROM BOTTOM OF SLAB	2"
FROM TOP OF SLAB	1 1/2"
OTHER CONCRETE NOT EXPOSED TO EARTH OR WEATHER (#11 BARS AND SMALLER)	3/4"

4. "CLEAR" OR "CLR" INDICATES DISTANCE BETWEEN SURFACES AND DOES NOT INDICATE MINIMUM UNLESS SPECIFICALLY NOTED AS SUCH. CLEAR DISTANCES ARE SUBJECT TO TOLERANCES PER CRSI.

5. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE 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.

6. SPLICES IN CONTINUOUS REINFORCEMENT IN WALLS, 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.

7. 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.

8. BEND REINFORCING BARS COLD. BARS MAY ONLY BE BENT ONCE.

9. REINFORCEMENT SHALL BE FREE FROM MUD, OIL, DIRT, LOOSE RUST, MORTAR, PAINT, GREASE AND OTHER NON-METALLIC AGENTS THAT REDUCE BOND CAPACITY. BONDED RUST OR MILL SCALE IS ACCEPTABLE PROVIDED THE MINIMUM CROSS-SECTIONAL AREA (INCULDING HEIGHT OF DEFORMATIONS) AND WEIGHT ARE MAINTAINED.

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

11. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE DURING INSPECTION.

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

13. 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.

14. 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.

15. MECHANICAL BAR SPLICES (COUPLERS) MAY BE USED AT CONTRACTOR'S OPTION IN LIEU OF LAP SPLICES AND WHERE REBAR IS SHOWN CONTINUOUS THROUGH JOINTS. UNLESS NOTED OTHERWISE, ALL MECHANICAL BAR SPLICES SHALL BE "TYPE 2" AS DEFINED IN ACI 318 AND AS LISTED IN THE PRODUCT SCHEDULE, AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

16. MECHANICAL HEADED END ANCHORS MAY BE USED AT CONTRACTOR'S OPTION IN LIEU OF STANDARD 90 DEGREE HOOKS AS LISTED IN THE PRODUCT SCHEDULE, AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE HEADED END ANCHORS WHERE CONGESTION DOES NOT ALLOW HOOKED REBAR INSTALLATION.

17. WELDING OF REINFORCING BARS SHALL BE PERFORMED PER AMERICAN WELDING SOCIETY (AWS) D1.4 USING E90XX ELECTRODES FOR A615 REINFORCING AND E80XX ELECTRODES FOR A706 REINFORCING.

18. (SPECIAL SYSTEMS) THE FOLLOWING REINFORCEMENT SHALL COMPLY WITH ASTM A706:
   a. VERTICAL REINFORCEMENT AT INTERSECTIONS AND ENDS OF CONCRETE WALLS ENCLOSED IN TIES OR STIRRUPS.
   b. LONGITUDINAL MOMENT FRAME REINFORCEMENT.

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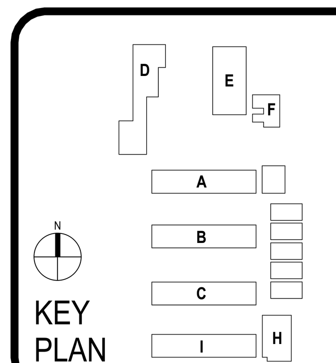
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LODI UNIFIED SCHOOL DISTRICT



KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
LON M. DETERMAN
No. S4654
EXP. 6-30-2024
STRUCTURAL
STATE OF CALIFORNIA

CLIENT
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PROJECT NUMBER
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DATE 04/15/2024
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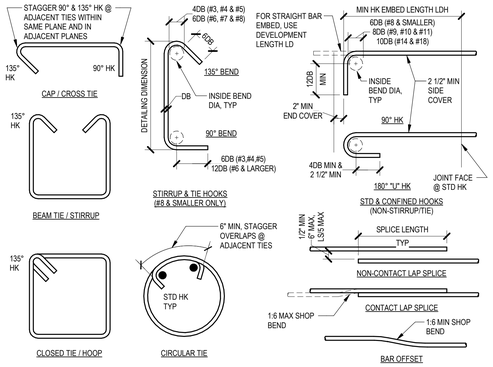
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#	DESCRIPTION	DATE

CONSTRUCTION DRAWINGS

GENERAL MATERIAL NOTES

S0.02

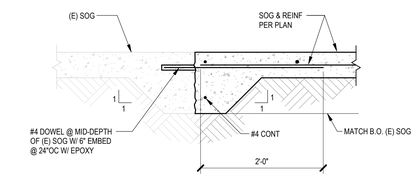
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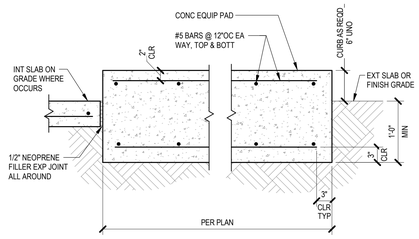
HOOKS, LAPS & DEVELOPMENT LENGTHS						
	BAR SIZE	STD HOOK DEVELOPMENT LENGTH 'LDH' (IN)	CLASS B LAP SPLICE 'LS' (IN)		DEVELOPMENT LENGTH 'LD' (IN)	
			BOTT	TOP	BOTT	TOP
3000 PSI NWC	#3	6	22	28	17	22
	#4	8	29	37	22	29
	#5	10	36	47	28	36
	#6	12	43	56	33	43
	#7	14	63	81	48	63
	#8	16	72	93	55	72
	#9	18	81	105	62	81
	#10	20	91	118	70	91
	#11	22	101	131	78	101
4000 PSI NWC	#3	6	19	24	15	19
	#4	7	25	32	19	25
	#5	9	31	40	24	31
	#6	10	37	48	29	37
	#7	12	54	70	42	54
	#8	14	62	80	48	62
	#9	15	70	91	54	70
	#10	17	79	102	61	79
	#11	19	87	113	67	87
5000 PSI NWC	#3	6	17	22	13	17
	#4	6	22	29	17	22
	#5	8	28	36	22	28
	#6	9	33	43	26	33
	#7	11	49	63	37	49
	#8	12	55	72	43	55
	#9	14	63	81	48	63
	#10	15	70	91	54	70
	#11	17	78	101	60	78

NOTES:
1. SEE BUILDING CODE AND ACI FOR ALL REQUIREMENTS NOT NOTED.
2. FOR LIGHTWEIGHT CONCRETE, MULTIPLY LDH, LS AND LD VALUES BY 1.33.
3. "TOP" BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOTT" BARS.
4. WHERE REQUIRED LS CANNOT BE OBTAINED WITH STRAIGHT BARS, EXTEND REINFORCING AS FAR AS POSSIBLE (LDH MINIMUM) AND PROVIDE STANDARD HOOK. WHERE LDH CANNOT BE OBTAINED, CONTACT THE SEOR.
5. VALUES ARE FOR GRADE 60 (FY=60 KSI) REINFORCEMENT.
6. SPLICE LENGTHS ARE FOR CLEAR SPACING NOT LESS THAN 2DB AND CONCRETE COVER NOT LESS THAN DB.
7. FOR EPOXY-COATED AND/OR BUNDLED REINFORCEMENT, CONTACT THE SEOR.
8. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED IN TENSION, SPLICE LENGTH SHALL BE THE LARGER OF LD OF THE LARGER BAR AND LS OF THE SMALLER BAR.
9. WHERE CLASS "A" LAP SPLICES ARE SPECIFICALLY INDICATED, USE 'LD'.

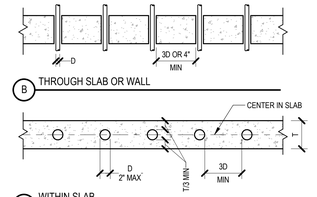
13 CONCRETE REINFORCEMENT DETAILS & DEVELOPMENT LENGTHS
NTS 032000-0100



5 EDGE OF SLAB TO (E) SLAB
NTS 030000-0103

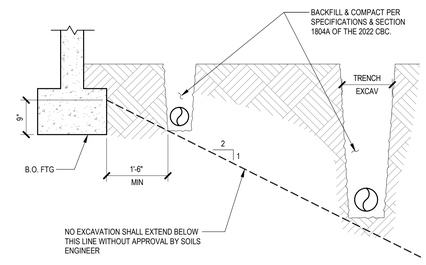


1 ISOLATED EQUIPMENT PAD
NTS 033053_01-0101



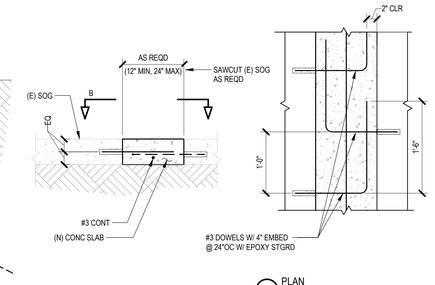
NOTES:
1. NO CONDUIT/PIPES SHALL BE ALLOWED IN SLABS UNLESS "T" IS A MINIMUM OF 5".
2. WHERE CLEAR DISTANCE CANNOT BE ACHIEVED, THIS AREA SHALL BE TREATED AS A SLAB OPENING.
3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION.
4. CONDUIT SHALL BE 2'-0" MIN FROM PT TENDONS AND TENDON ANCHORAGE.
5. MAINTAIN A MINIMUM HORIZONTAL CLEARANCE FROM PARALLEL PT TENDONS OF 1'-0" AND A MINIMUM VERTICAL CLEARANCE OF 1" FROM PT TENDONS BEING CROSSED.
6. CONDUITS/PIPES SHALL BE ADEQUATELY SUPPORTED AND SECURED AGAINST DISPLACEMENT PRIOR TO CONCRETE PLACEMENT.
7. MAINTAIN ONE REBAR DIAMETER CLEAR BETWEEN CONDUIT/PIPES AND REBARS. DO NOT SET CONDUIT/PIPES DIRECTLY ON REBAR.
8. NO MORE THAN 5 PARALLEL CONDUITS MAY BE PLACED IN ANY 5'-0" WIDE STRIP OF CONCRETE.
9. DO NOT CUT/RELOCATE REBAR TO INSTALL CONDUIT OR PIPING.

10 PIPES/CONDUITS IN/THRU SLAB & WALL
1" = 1'-0"

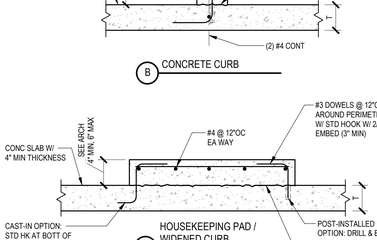


NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS AND SECTION 1804A OF THE 2022 CBC.

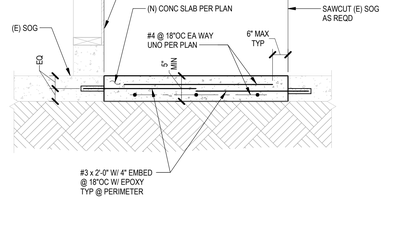
6 EXCAVATION PARALLEL TO FOOTINGS
NTS 033100_00-0102 (DSA)



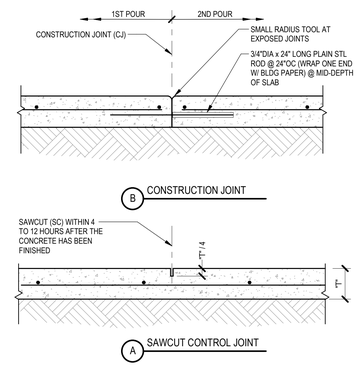
2 NARROW INTERIOR SAWCUT IN (E) SLAB
NTS 030000-0107

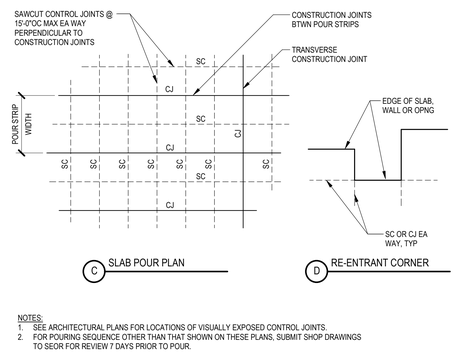


7 CONCRETE PAD & CURB
NTS 033053_01-0100



3 INTERIOR SAWCUT IN (E) SLAB
NTS 030000-0106





NOTES:
1. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VISUALLY EXPOSED CONTROL JOINTS.
2. FOR POURING SEQUENCE OTHER THAN THAT SHOWN ON THESE PLANS, SUBMIT SHOP DRAWINGS TO SEOR FOR REVIEW 7 DAYS PRIOR TO POUR.

8 SLAB ON GRADE CONTROL JOINTS
NTS 033100_03-0102

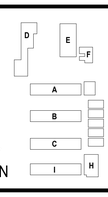
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LODI UNIFIED SCHOOL DISTRICT



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No. S 44654
EXP: 6-30-2024
STRUCTURAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/15/2024
DRAWN BY: AJR CHKED BY: RM
REVISIONS

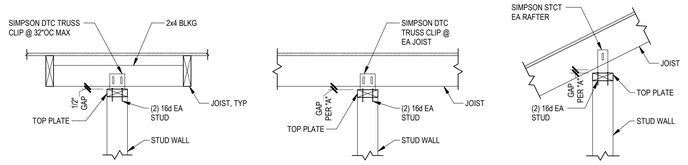
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CONSTRUCTION DRAWINGS

TYPICAL FOUNDATION & SOG DETAILS

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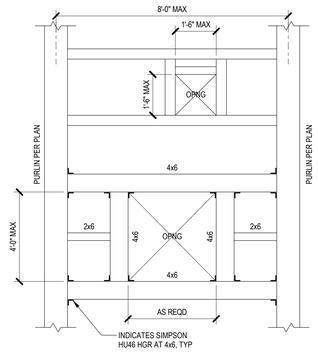
A PARTITION PARALLEL TO JOISTS

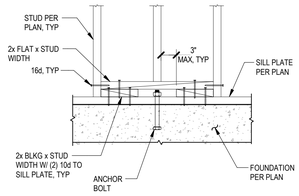
B PARTITION PERPENDICULAR TO JOISTS - FLAT ROOF

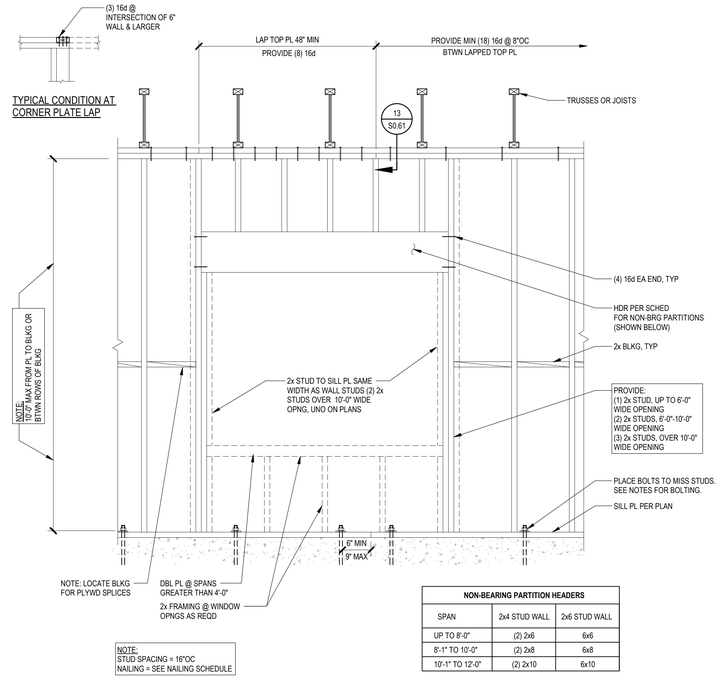
C PARTITION PERPENDICULAR TO JOISTS - SLOPED ROOF

13 TOP OF NON-BEARING PARTITIONS

NTS 061000_01-0103





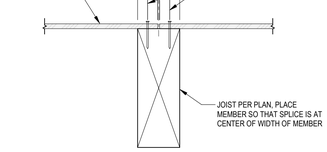


NOTE:
STUD SPACING = 16"OC
NAILING = SEE NAILING SCHEDULE

NON-BEARING PARTITION HEADERS		
SPAN	2x4 STUD WALL	2x6 STUD WALL
UP TO 8'-0"	(2) 2x6	6x6
8'-1" TO 10'-0"	(2) 2x8	6x8
10'-1" TO 12'-0"	(2) 2x10	6x10

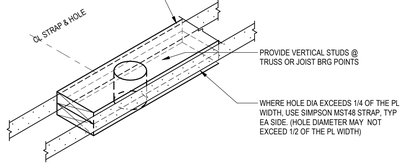
14 ROOF OPENING FRAMING

NTS 061000_02-0102



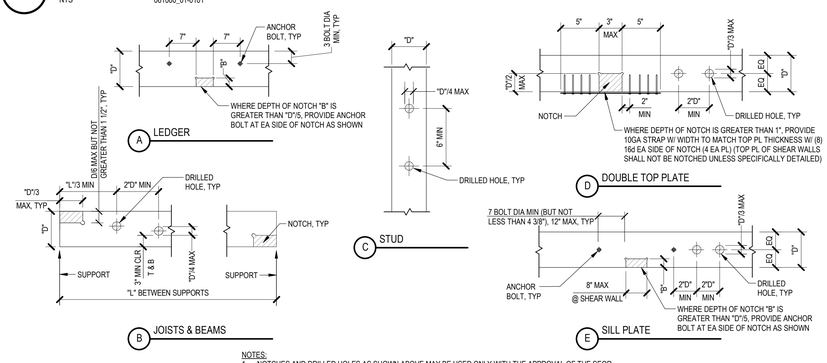
10 WALL STUD AT ANCHOR BOLT CONFLICT

NTS 061000_01-0111



6 NON-BEARING WALL OPENING FRAMING

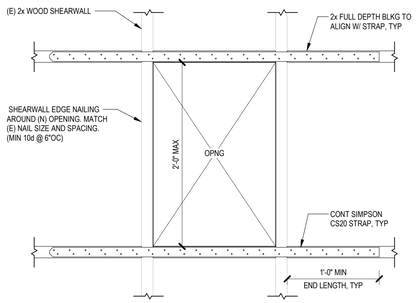
NTS 061000_01-0101



NOTES:
1. NOTCHES AND DRILLED HOLES AS SHOWN ABOVE MAY BE USED ONLY WITH THE APPROVAL OF THE SEOR.
2. DRILL 1/4"DIA HOLE AT CORNERS OF NOTCHES PRIOR TO NOTCHING.

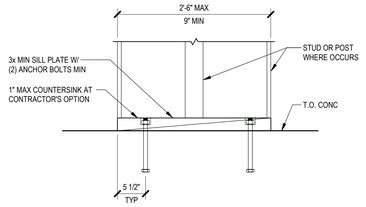
15 SHEATHING SPLICE AT SAWN LUMBER

NTS 061000_04-0114



11 PLATE REINFORCEMENT AT ROOF VENTS

NTS 061000_01-0110

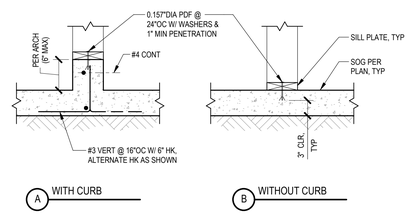


7 HOLES AND NOTCHES IN WOOD FRAMING

NTS 061000_00-0100

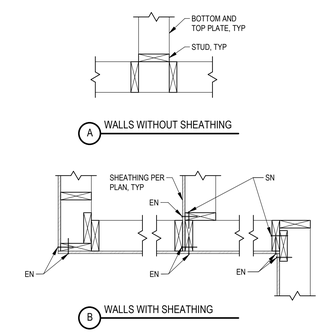
8 NON-BEARING PARTITION SILL PLATE ANCHORAGE

NTS 061000_01-0100



4 WALL INTERSECTIONS AND CORNERS

NTS 061000_01-0102



16 (N) OPENING IN (E) SHEARWALL

NTS

12 SHORT WALL SILL PLATE

NTS 061000.01-1002

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ARCHITECT PBK Architects, Inc.
PBK.com
FOLSOM
1110 Iron Point Road, Suite 200
Folsom, CA 95630-8315
916-355-9922

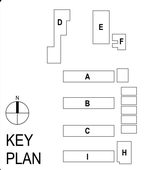
STRUCTURAL ENGINEER
miyamoto.
1450 Halyard Drive, Suite One
West Sacramento, CA 95691
T: (916) 373-1995
miyamotointernational.com
MI2301019_R21

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
CONSTRUCTION DRAWINGS

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/15/2024
DRAWN BY: AJR CHKED BY: RM

REVISIONS

#	DESCRIPTION	DATE

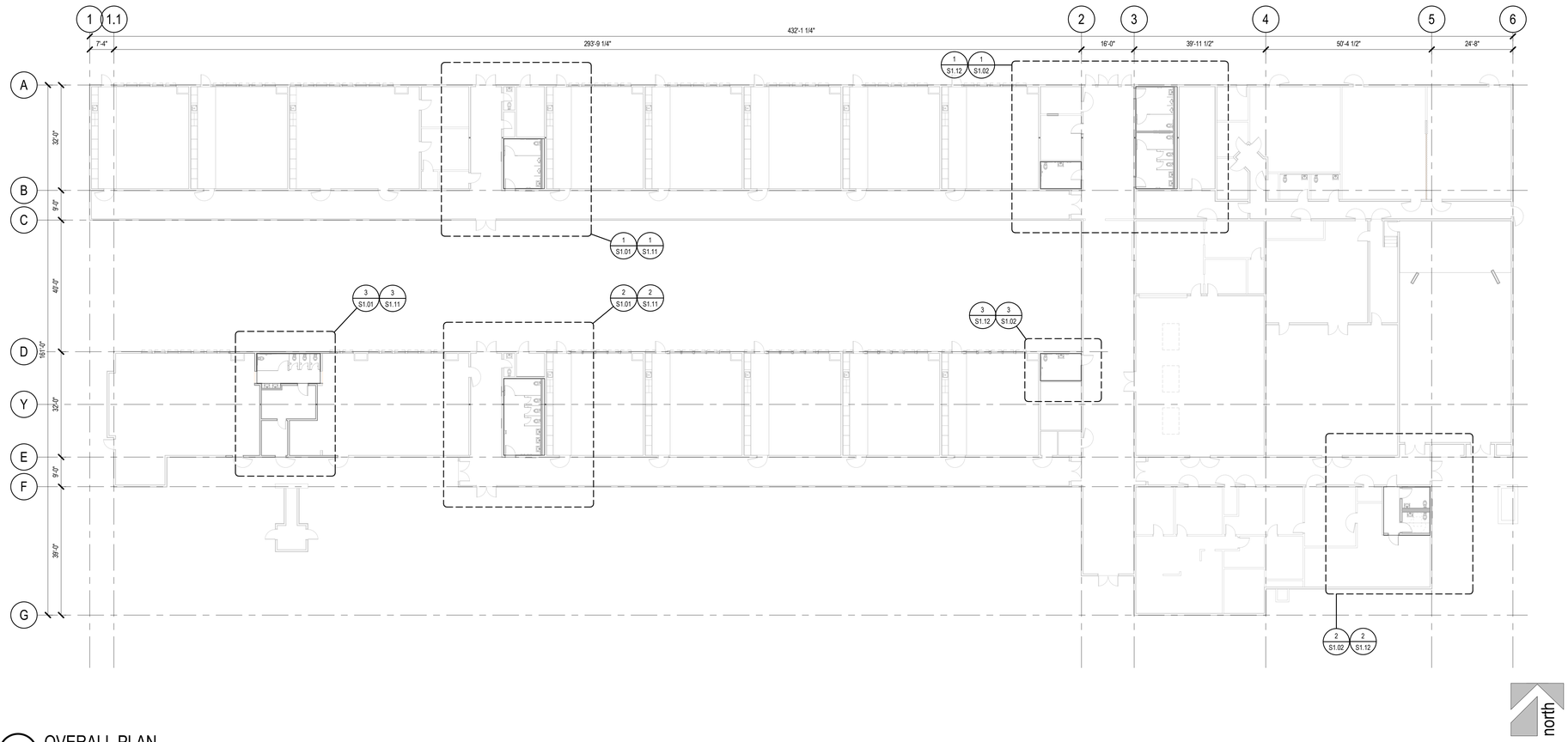
CONSTRUCTION DRAWINGS

TYPICAL WOOD DETAILS

S0.61

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1 OVERALL PLAN
1/16" = 1'-0"

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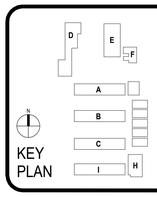
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CONSTRUCTION DRAWINGS

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN


REGISTERED PROFESSIONAL ENGINEER
LORI D. DEFFENBAUGH
No. S-6654
Exp: 6-30-2024
STRUCTURAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
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REVISIONS

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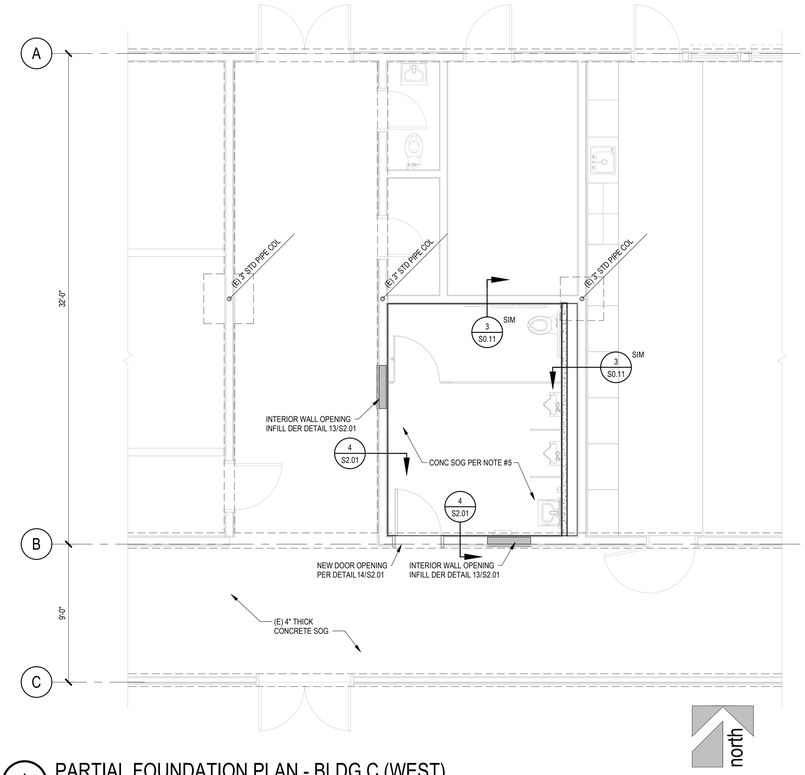
CONSTRUCTION DRAWINGS

OVERALL PLAN

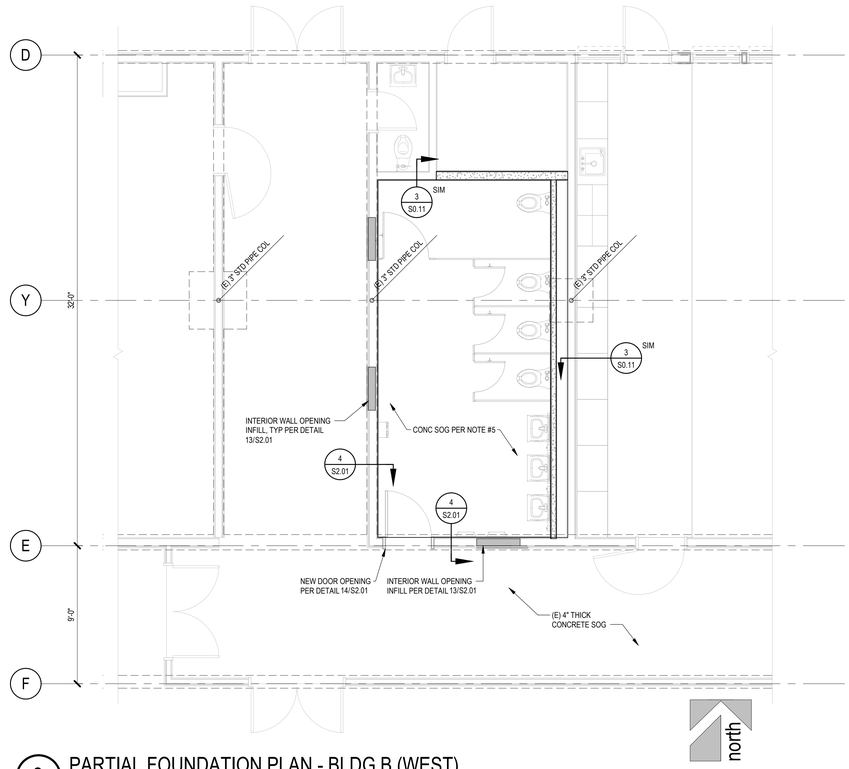
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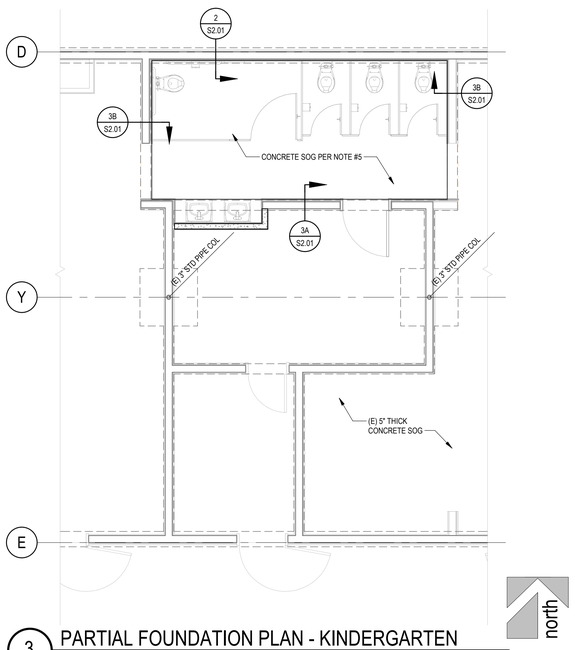
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1 PARTIAL FOUNDATION PLAN - BLDG C (WEST)
1/4" = 1'-0"



2 PARTIAL FOUNDATION PLAN - BLDG B (WEST)
1/4" = 1'-0"



3 PARTIAL FOUNDATION PLAN - KINDERGARTEN
1/4" = 1'-0"

NOTES:
1. SEE (E) BUILDING DRAWINGS FOR (E) TOP OF CONCRETE SLAB ELEVATIONS, SEE ARCHITECTURAL FOR FINISH FLOOR ELEVATION.
2. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY ALL UNIT LOCATIONS, SIZES AND OPENINGS.
3. GRIDLINES SHOWN ARE TO FACE OF CONCRETE / STUD AS SHOWN, TYP UNO. COORDINATE W/ ARCH AS REQUIRED. SEE ARCH FOR DIMENSIONS NOT SHOWN.
4. ELEVATION OF FINISH FLOOR = SEE ARCH (DATUM ELEV = +0'-0").
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6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLAB.
7. CONTRACTOR SHALL SUMBIT SLAB JOINT LAYOUT TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PLACING CONCRETE.
8. COORDINATE INFORMATION SHOWN W/ ARCH PLANS. REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER AND ARCHITECT INMEDIATELY.

LEGEND:

INDICATES CONCRETE CURB PER DETAIL 7/S0.11

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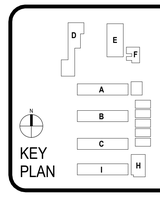
LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL

831 WEST LOCKEFORD STREET
LODI, CA 95240

CONSTRUCTION DRAWINGS

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER	230216
DATE	04/15/2024
DRAWN BY: AJR	CHKED BY: RM

REVISIONS

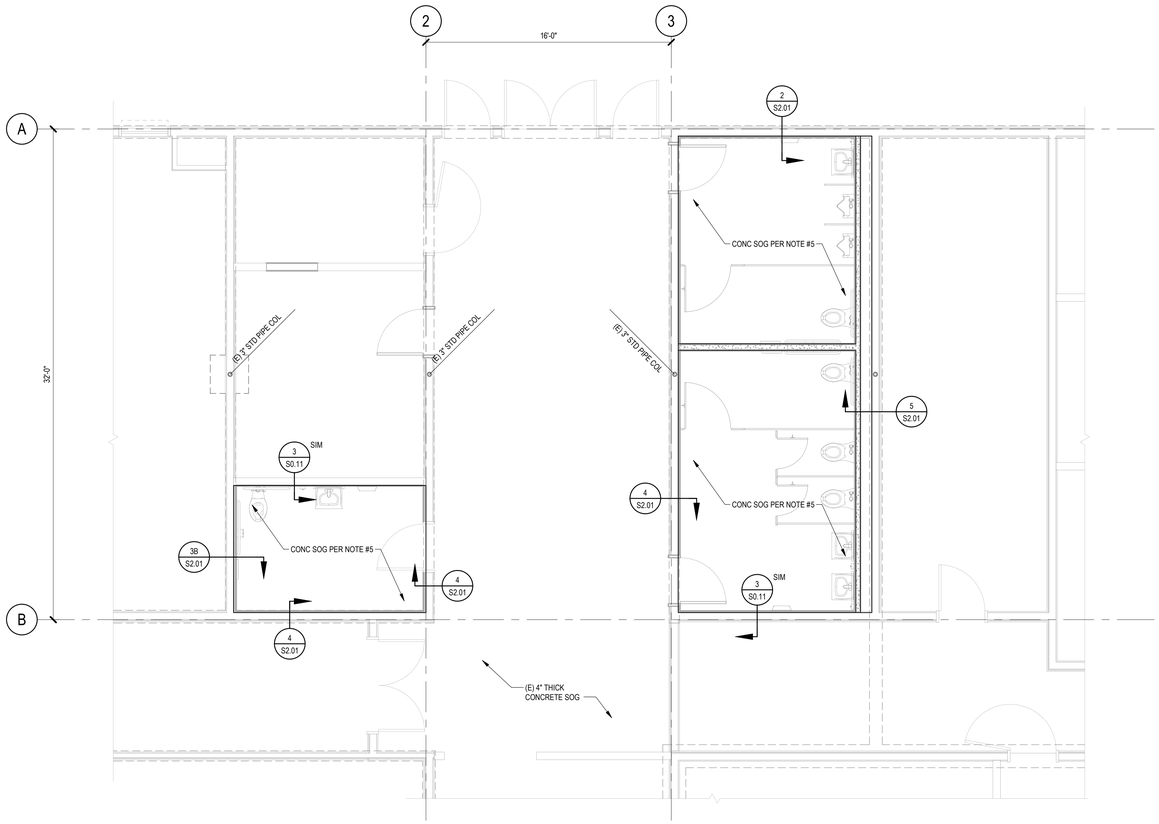
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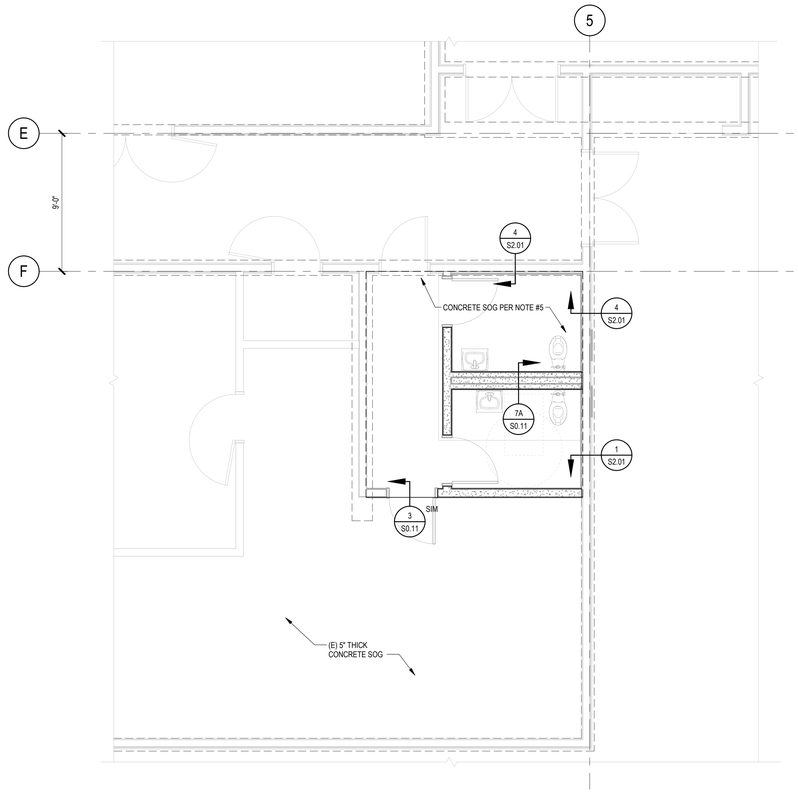
PARTIAL FOUNDATION PLANS

S1.01

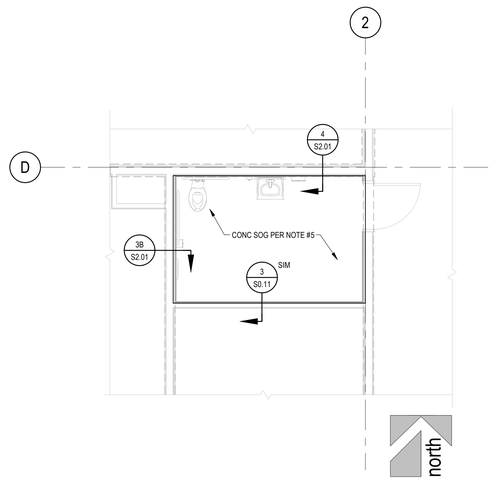
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1 PARTIAL FOUNDATION PLAN - BLDG A (NORTH)
1/4" = 1'-0"



2 PARTIAL FOUNDATION PLAN - BLDG A (SOUTH)
1/4" = 1'-0"



3 PARTIAL FOUNDATION PLAN - BLDG B (EAST)
1/4" = 1'-0"

NOTES:
1. SEE (E) BUILDING DRAWINGS FOR (E) TOP OF CONCRETE SLAB ELEVATIONS, SEE ARCHITECTURAL FOR FINISH FLOOR ELEVATION.
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LEGEND:

INDICATES CONCRETE CURB PER DETAIL 7/S0.11

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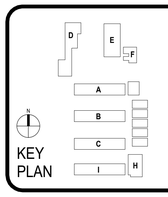
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LODI UNIFIED SCHOOL DISTRICT
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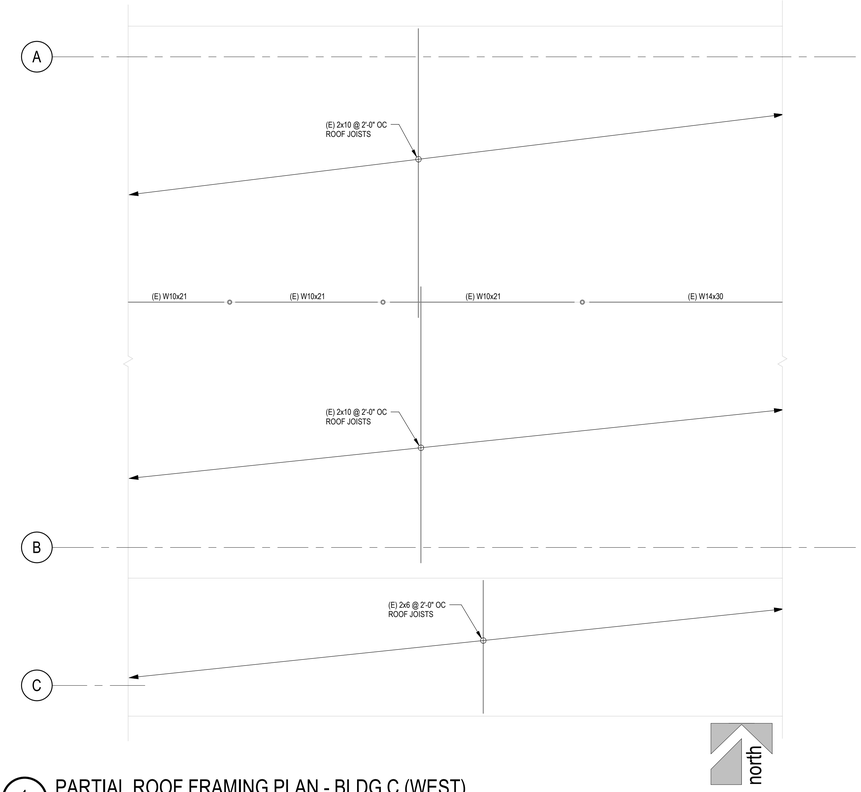
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CONSTRUCTION DRAWINGS

PARTIAL FOUNDATION PLANS

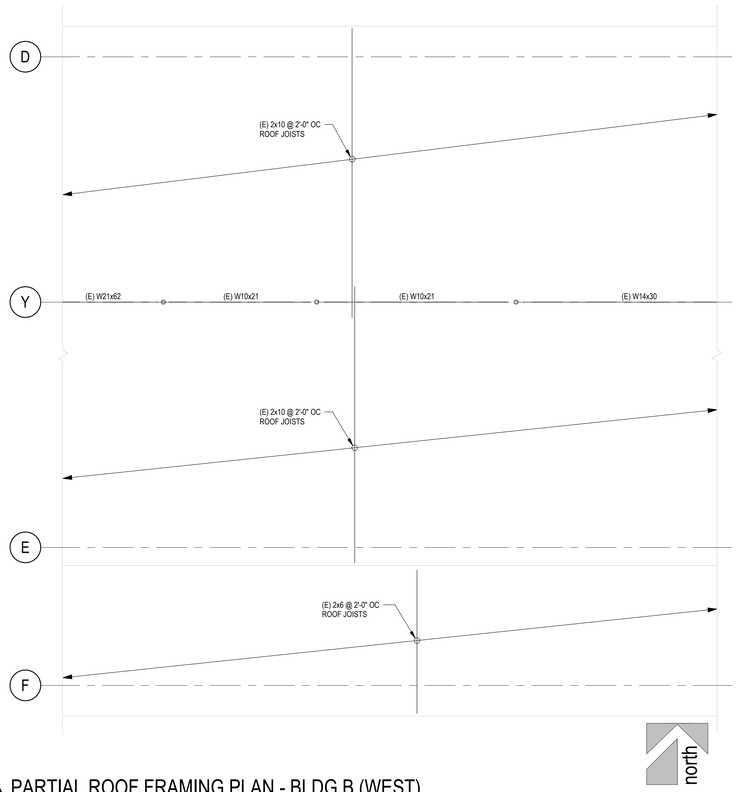
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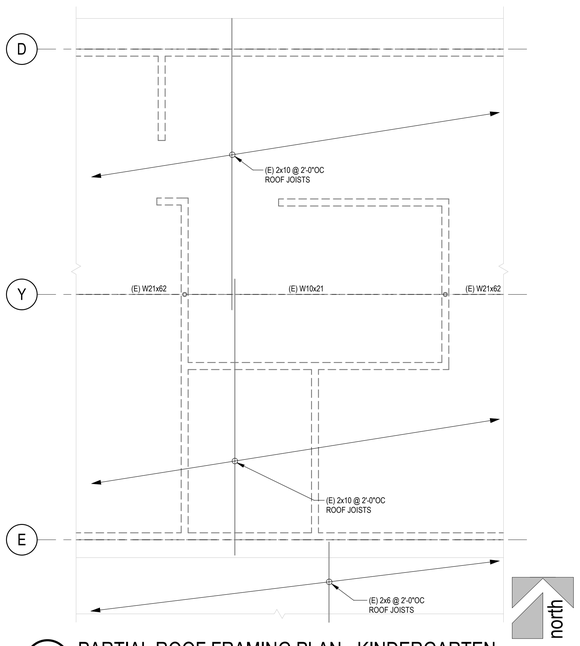


1 PARTIAL ROOF FRAMING PLAN - BLDG C (WEST)
1/4" = 1'-0"

NOTES:
1. SEE (E) BUILDING DRAWINGS FOR TOP OF ROOF ELEVATIONS.
2. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL FOR LOCATION OF EQUIPMENT. CONTRACTOR TO VERIFY ALL UNIT LOCATIONS, SIZES AND OPENINGS.



2 PARTIAL ROOF FRAMING PLAN - BLDG B (WEST)
1/4" = 1'-0"



3 PARTIAL ROOF FRAMING PLAN - KINDERGARTEN
1/4" = 1'-0"

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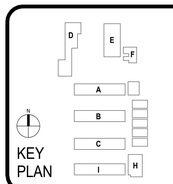
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LODI, CA 95240
CONSTRUCTION DRAWINGS

LODI UNIFIED SCHOOL DISTRICT



REGISTERED PROFESSIONAL ENGINEER
LON M. DETERMAN
No. S4654
Exp: 6-30-2024
STRUCTURAL
STATE OF CALIFORNIA

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LODI UNIFIED SCHOOL DISTRICT
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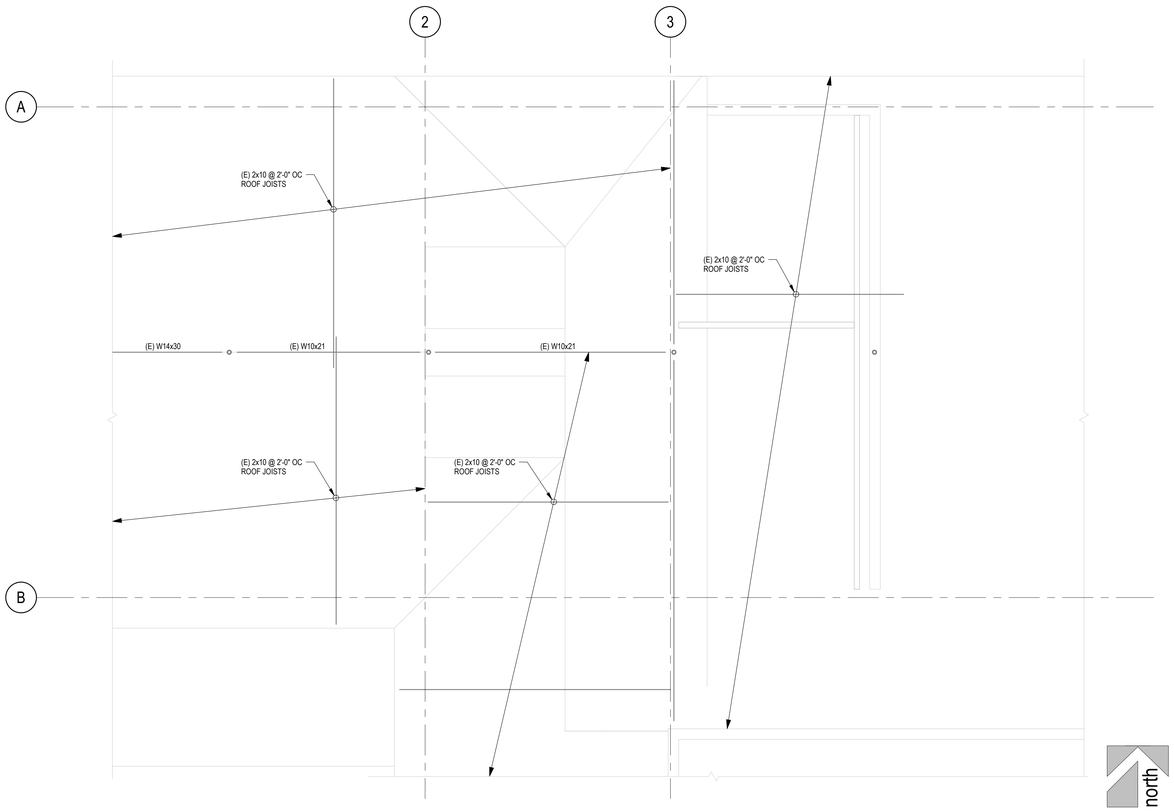
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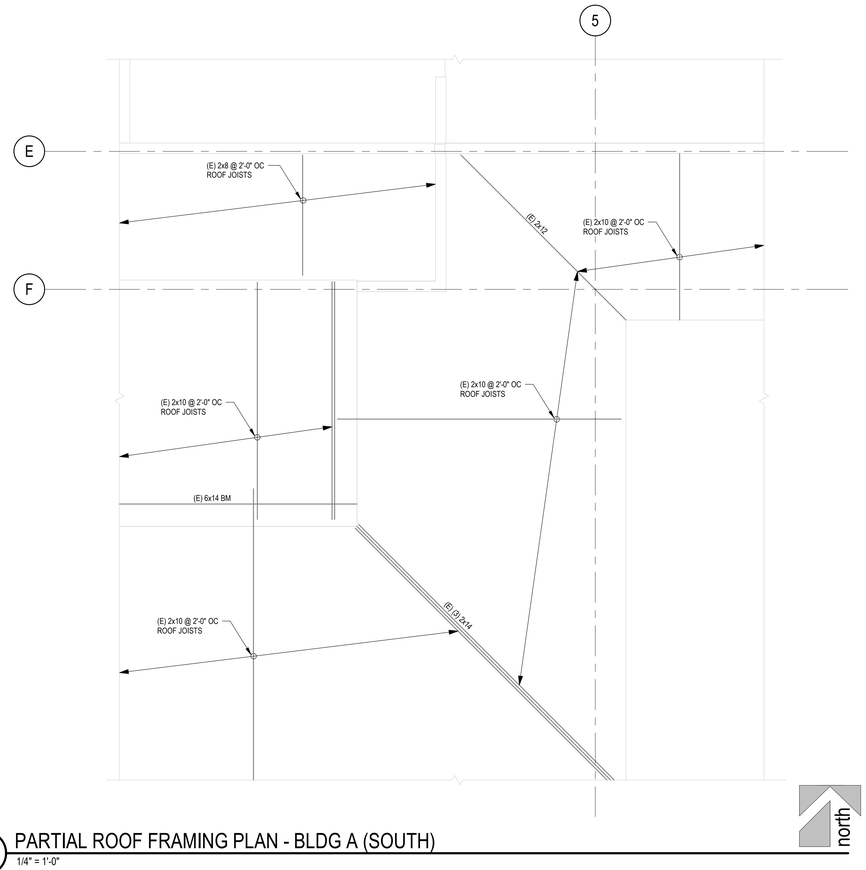
PARTIAL ROOF FRAMING PLANS

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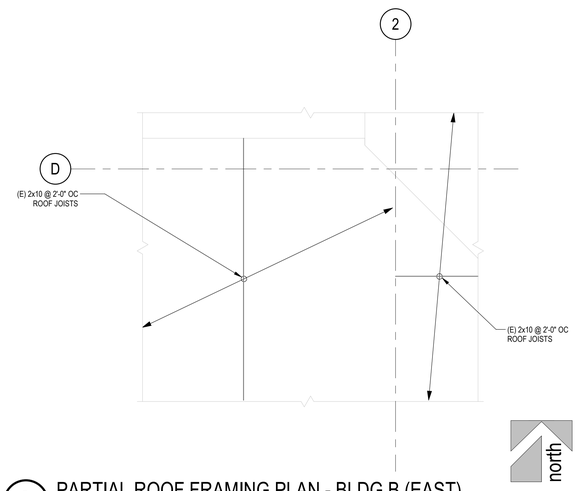


1 PARTIAL ROOF FRAMING PLAN - BLDG A (NORTH)
1/4" = 1'-0"



2 PARTIAL ROOF FRAMING PLAN - BLDG A (SOUTH)
1/4" = 1'-0"

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3 PARTIAL ROOF FRAMING PLAN - BLDG B (EAST)
1/4" = 1'-0"

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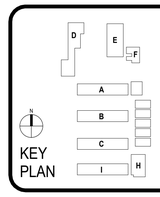
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MI2301019_R21

GEORGE WASHINGTON ES MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240
CONSTRUCTION DRAWINGS

LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
LEON M. DETERMAN
No. S4654
Exp: 6-30-2024
STRUCTURAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/15/2024
DRAWN BY: AJR CHKED BY: RM
REVISIONS

#	DESCRIPTION	DATE

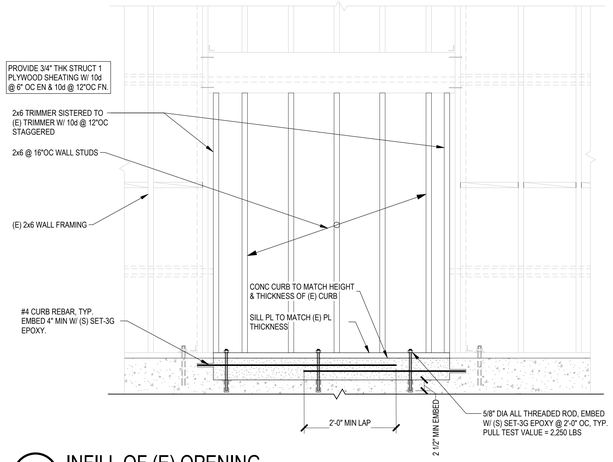
CONSTRUCTION DRAWINGS

PARTIAL ROOF FRAMING PLANS

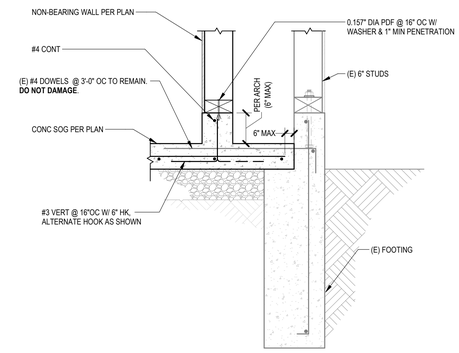
S1.12

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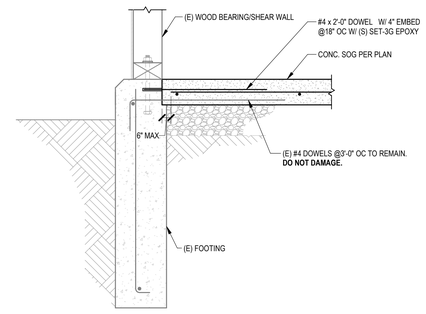
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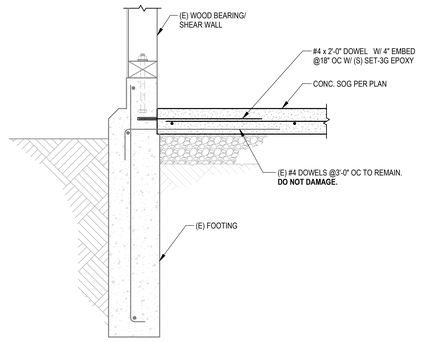
13 INFILL OF (E) OPENING
3/4" = 1'-0"



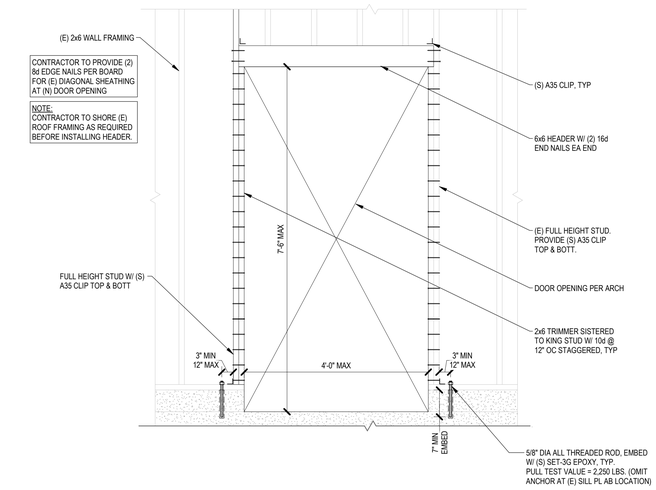
5 CONC SOG TO (E) EXTERIOR FOOTING CONN
1" = 1'-0"



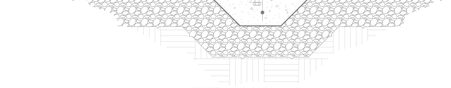
1 CONC SOG TO (E) EXTERIOR FOOTING CONN (NO CURB)
1" = 1'-0"



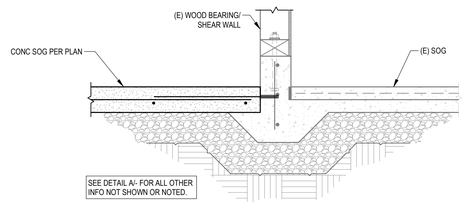
2 CONC. SOG TO (E) EXTERIOR FOOTING CONN
1" = 1'-0"



14 (N) DOOR OPENING IN (E) WALL
3/4" = 1'-0"

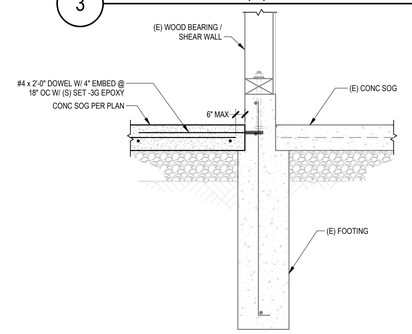


A SECTION W/O CURB



B SECTION W/ CURB

3 CONC. SOG TO (E) INTERIOR FOOTING CONN



4 CONC. SOG TO (E) INTERIOR FOOTING CONN
1" = 1'-0"

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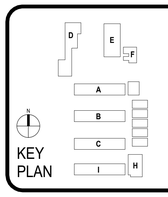
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FOUNDATION & WOOD FRAMING DETAILS

S2.01

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A6.01 - EXTERIOR ELEVATIONS

DUCT LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
24x12	24x12	RECTANGULAR DUCT - WIDTH X DEPTH (PLAN VIEW) DEPTH X WIDTH (SECTION VIEW)
26x14L	26x14L	ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE.
		MANUAL AIR DAMPER
R OR D	RISE OR DROP	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
	OR	RECTANGULAR TO RECTANGULAR TRANSITION, MAX SLOPE OF 1:3 RECTANGULAR TO ROUND TRANSITION, MAX SLOPE OF 1:3
	W, R, R/W = 1.5	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES.
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAXIMUM SLOPE OF 1:3.
		CONICAL DUCT TAKE OFF FROM RECTANGULAR VIA SPIN-IN W/DAMPER AND SCOOP.
	ROUND DUCT	ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH.
		RECTANGULAR DUCT TEE, MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP.
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP.
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S ON THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY AIR DUCT IN SECTION, SUPPLY DROP
		RETURN AIR, RETURN AND OUTSIDE AIR DUCT IN SECTION , RETURN AIR DROP.
		EXHAUST AIR, EXHAUST AIR DUCT IN SECTION, EXHAUST AIR DROP.
		FLEXIBLE DUCT (ROUND)
		FLEXIBLE DUCT (FABRIC)
	18"Ø, 10"Ø, 12"Ø, MAD	45° REDUCING LATERAL FITTING
	18"Ø, 12"Ø, 10"Ø, MAD	90° REDUCING TEE FITTING MECHANICAL DEMOLITION PLAN

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OA
01 / M-1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
AC-1	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	
A 10x10-3 120, F/S	GRILLE DESIGNATION NECK SIZE & BLOW FIRE/SMOKE DAMPER WHERE REQ'D CFM	
	ACOUSTIC LINED DUCT	
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	SUPPLY DUCT THRU ROOF	
	RETURN DUCT THRU ROOF	
	VOLUME CONTROL DAMPER	VCD
	FIRE/SMOKE DAMPER W/ACCESS	F/S
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
T	EMS TEMP. SENSOR/ THERMOSTAT, MOUNT @ 48" AFF TO TOP OF BOX	T'STAT
B	BYPASS TIMER	
S	SWITCH	
(E)	EXISTING	EXIST.
(N)	NEW	NEW
	METAL & FLEXIBLE DUCT	
	PIPE RISER	
	PIPE DROP	
— CWS —	CHILLED WATER SUPPLY	CWS
— CWR —	CHILLED WATER RETURN	CWR
— HWS —	HEATING WATER SUPPLY	HWS
— HWR —	HEATING WATER RETURN	HWR
	INCREASER/REDUCER	
	SAFETY RELIEF VALVE	
	GATE VALVE	GV
	GLOBE VALVE	
	PLUG VALVE	
	BALL VALVE	
	CHECK VALVE	CHK
	STRAINER	STR
	BUTTERFLY VALVE	
	NEEDLE VALVE	
	3-WAY VALVE	
	BALANCING VALVE	
	SENSOR WELL	
	THERMOMETER	
P	PRESSURE GAUGE	PG
	GAUGE COCK	GC
FS	FLOW SWITCH	FS
	THERMOMETER WELL	
	MOISTURE SENSOR	
	PRESSURE REGULATING VALVE	PRV
	PIPING FIRE WALL PENETRATION	
	POINT OF CONNECTION	POC
	EXHAUST DUCT THRU ROOF	
	DUCT SMOKE DETECTOR	
— CS —	COMBO HOT/CHILLED WATER SUPPLY	CS
— CR —	COMBO HOT/CHILLED WATER RETURN	CR
R	RA TEMP. SENSOR	
C	CARBON DIOXIDE SENSOR	
P	PRESSURE SENSOR	
	TEMPERATURE CONTROL PANEL	TCP
	UNLESS OTHERWISE NOTED	U.O.N.
	TRANSFER AIR GRILLE	TAG
	ABOVE FINISHED FLOOR	AFF
	ABOVE	ABV
	ABOVE CEILING	ABC
	ABOVE FINISHED GRADE	AFG
☑	ACCESS PANEL	AP
	AIR CONDITIONING	AC
	AIR PRESSURE DROP, INCHES WATER COLUMN	APD
	ANCHOR BOLT	AB
	BRAKE HORSE POWER	BHP
	BRITISH THERMAL UNITS (PER HOUR)	BTU(H)
	CENTER TO CENTER	CC
	CEILING	CLG
	CLEAR	CLR

MECHANICAL LEGEND CONTINUED

SYMBOL	ITEM	ABBR.
	CONCRETE	CONC
	CONDENSER	COND
	CONNECTION	CONN
	CONTINUATION	CONT
	CONTRACTOR	CONTR
	CUBIC FEET OF AIR FLOW PER MINUTE	CFM
	DAMPER	DPR
	DEGREES FAHRENHEIT	°F
Ø	DIAMETER, PHASE	DIA
	DOOR LOUVER	DL
	DOWN	DN
	DRAIN	DR
	DRY BULB (DEGREES FAHRENHEIT)	DB
	ELECTRICAL PANEL	EP
	ELEVATION	EL
	ENTERING	ENT
	ENTERING DRY BULB	EDB
	ENTERING WET BULB	EWB
	EVAPORATOR	EVAP
	EVAPORATIVE COOLER	EC
	EXHAUST AIR DAMPER	EAD
	EXHAUST FAN	EF
	EXTERNAL STATIC PRESSURE	ESP
	FEET PER MINUTE	FPM
	FIRE DAMPER	FD
	FLOOR	FLR
	FROM ABOVE	FA
	FROM BELOW	FB
	FULL LOAD AMPS	FLA
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	GALVANIZED	GALV
	GALVANIZED IRON	GI
	GAUGE	GA
	HEATING	HTG
	HUMIDSTAT, "X" INDICATES DEVICE CONTROLLED	H
	KILOWATTS	KW
	KILOWATT HOUR	KWH
	LEAVING DRY BULB IN DEGREES (FAHRENHEIT)	LDB
	LEAVING WET BULB IN DEGREES FAHRENHEIT	LWB
	LOCKED ROTOR AMPERES	LRA
	LOVER	LVR
	MANUFACTURER	MFR
	MAXIMUM	MAX
	MINIMUM	MIN
	ON CENTER	OC
	OUTSIDE AIR DAMPER	OAD
	OUTSIDE DIAMETER	OD
	OUTLET VELOCITY	OV
	OVERHEAD	OH
	POUNDS	LBS
	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)	PSI (G) (A)
	PRESSURE DROP	PD
	REFRIGERANT SUCTION PIPING	RS
	REFRIGERANT LIQUID PIPING	RL
	RETURN AIR DAMPER	RAD
	REVOLUTIONS PER MINUTE	RPM
	RUNNING LOAD AMPERES	RLA
	SHEET METAL	SM
	SPLITTER DAMPER	SD
	SQAURE FEET	SQFT
	SQAURE INCHES	SQIN
	STATIC PRESSURE	SP
	STATIC PRESSURE DROP	SPD
	SUPPLY FAN	SF
	TEMPERATURE CONTROL PANEL	TCP
	TEMPERATURE CONTROL VALVE	TCV
	THOUSAND BRITISH THERMAL UNITS PER HOUR	MBH
	TO ABOVE	TA
	TO BELOW	TB
	TOTAL PRESSURE	TP
	TOTAL STATIC PRESSURE	TSP
	TYPICAL	TYP
	UNDERGROUND	UG
	UNDER CUT DOOR	UCD
	VALVE	VLV
	WATTS	W
	WEIGHT	WT
	WET BULB	WB
	WIRE MESH SCREEN	WMS

SHEET INDEX

M0.01	MECHANICAL SHEET INDEX, LEGEND & NOTES
M0.02	MECHANICAL SCHEDULES AND DETAILS
M2.01	MECHANICAL OVERALL FLOOR PLAN
M3.01	MECHANICAL ENLARGED FLOOR PLAN- DEMO
M3.11	MECHANICAL ENLARGED FLOOR PLAN - NEW

CAL-GREEN REQUIREMENTS

1. TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1
2. SYSTEMS. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT:
   A. HVAC SYSTEMS AND CONTROLS.
   B. INDOOR AND OUTDOOR LIGHTING AND CONTROLS.
   C. WATER HEATING SYSTEMS.
   D. RENEWABLE ENERGY SYSTEMS.
   E. LANDSCAPE IRRIGATION SYSTEMS.
   F. WATER REUSE SYSTEMS.
3. PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.
   A. HVAC BALANCING. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE ENFORCING AGENCY.
4. REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
5. OPERATION AND MAINTENANCE (O & M) MANUAL. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.
   A. INSPECTIONS AND REPORTS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.
6. TEMPORARY VENTILATION. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM REPORTING VALUE (MERV) OF 13, BASED ON ASHRAE 52.2-1999 OR AN AVERAGE EFFICIENCY OF 30 PERCENT BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATIONS, AT THE CONCLUSION OF CONSTRUCTION.
7. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH WRAP, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.
8. FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDE AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.
   EXCEPTIONS:
   A. AN ASHRAE 10-PERCENT TO 15-PERCENT EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2022 CALIFORNIA ENERGY CODE HAVING 60,000 BTY/H OR LESS CAPACITY PER FAN COIL, IF THE ENERGY USE OF THE AIR DELIVERY SYSTEM IS 0.4 W/CFM OR LESS AT DESIGN AIR FLOW.
   B. EXISTING MECHANICAL EQUIPMENT.
9. OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.
   A. CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.
   B. HALONS. INSTALL HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.
10. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1

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 CHAPTER 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 ELECTRIC, 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:

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

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

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 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

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

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

MP☒MD☒PP☐E☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐MD☐PP☐E☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

GENERAL NOTES

1. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED AS DETAILED IN THE APPROVED DRAWINGS AND 2022 C.B.C. AS APPROVED BY DSA.
2. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWING OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND DSA FIELD ENGINEER.
3. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
4. CONTRACTOR SHALL COORDINATE ALL DUCTWORK ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH PIPING, LIGHT FIXTURES, TRUSSES, ETC.
5. CONTRACTOR SHALL COORDINATE ALL GRILLE LOCATIONS AND CEILING TYPES PRIOR TO ORDERING GRILLES. SEE ARCHITECTURAL CEILING PLANS AND ELECTRICAL LIGHTING PLANS.
6. CONTRACTOR SHALL VERIFY/ COORDINATE VOLTAGE OF ALL EQUIPMENT PRIOR TO ORDERING ANY EQUIPMENT. SEE ELECTRICAL DRAWINGS.

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DATE: 12/19/2024

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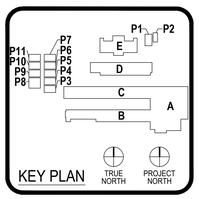
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GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230216

DATE 04/12/2024

DRAWN BY: CHKED BY:

REVISIONS

#	DESCRIPTION	DATE

MECHANICAL SHEET INDEX, LEGEND & NOTES

M0.01

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A6.01 - EXTERIOR ELEVATIONS

EXHAUST FAN SCHEDULE

NUMBER	CEF-1,2	CEF-5,6,7,10	CEF-3,8	CEF-4	CEF-9
MANUFACURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	CSP-A200	CSP-A390-VG	CSP-A390-VG	CSP-A510-VG	CSP-A510-VG
TYPE	CEILING	CEILING	CEILING	CEILING	CEILING
MOUNTING	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED
WATTS / BHP / HP	71 / 0.05 / -	27 / 0.04 / -	71 / - / -	104 / 0.14 / -	104 / 0.14 / -
MCA / MOCP	0.6 / 15	1.9 / 15	1.9 / 15	3.1 / 15	3.1 / 15
VOLTS / PHASE	115 / 1	115 / 1	115 / 1	115 / 1	115 / 1
MINIMUM CFM	110	200	300	400	500
E.S.P. (IN. W.C.)	0.25	0.25	0.25	0.25	0.25
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
FAN RPM	766	1286	1286	1246	1368
SONES / dBA	0.8 / 30	0.8 / 32	2.0 / 37	1.1 / 33	1.4 / 35
CONTROL	LIGHTS/OCC.	LIGHTS/OCC.	LIGHTS/OCC.	LIGHTS/OCC.	LIGHTS/OCC.
(N) OPER. WT. (LBS)	35	35	35	50	50

NOTES:
1. PROVIDE BACKDRAFT DAMPER.
2. PROVIDE FACTORY SOLID STATE SPEED CONTROLLER MOUNTED WITHIN THE FAN CASING.
3. PROVIDE GRAVITY RELIEF HOOD AND ROOF CURB. GREENHECK MODEL GRSR AND GPI.
4. INTERLOCK START/STOP OPERATION WITH LIGHTSWITCH/OCC. SENSOR.
5. PROVIDE FACTORY VARI-GREEN DRIVE.
6. PROVIDE FACTORY DISCONNECT SWITCH.

ELECTRIC WALL HEATER SCHEDULE

NUMBER	EWH-1	
TYPE	RECESSED ELECTRIC WALL HEATER	
MANUFACTURER	QMARK	
MODEL	CWH4404	
BLOWER HP	1/40	
AMPS	14.4	
VOLTS / PHASE	208/1	
RPM / DRIVE	1250 / DIRECT	
CFM	100	
HEATING CAPATICY (kW)	3.0	
HEATING CAPACITY (MBH)	10.24	
TEMPERATURE RISE (°F)	25	
OPER. WT. (LBS)	70	

NOTES:
1. FACTORY INTEGRAL THERMOSTAT.
2. PROVIDE FACTORY BACK BOX FOR RECESSED WALL MOUNT APPLICATION. MOUNT BOTTOM OF UNIT @ 24" AFF.
3. COLOR BY ARCHITECT.

EXHAUST HOOD SCHEDULE

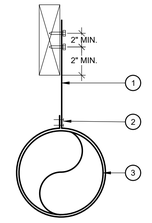
NUMBER	EH-1	EH-2	EH-2
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK
MODEL	GRSR-8	GRSR-10	GRSR-12
TYPE	GRAVITY	GRAVITY	GRAVITY
LOCATION	ROOF	ROOF	ROOF
CURB CAP (IN.)	19x19	19x19	22x22
ROOF OPENING (IN.)	8.25	10.25	12.25
HOOD SIZE (IN.)	20.25	20.25	29
HOOD HEIGHT (IN.)	11	11.5	14.25
MAXIMUM CFM	326	468	662
FPM / S.P. LOSS	600 / 0.08	600 / 0.08	600 / 0.08
SERVICE	SEE PLAN	SEE PLAN	SEE PLAN
OPER. WT. (LBS)	25	25	25

NOTES:
1. PROVIDE FACTORY 12" ROOF CURB
2. PROVIDE INSECT SCREEN.

AIR DISTRIBUTION SCHEDULE

SYMBOL	TYPE	DESCRIPTION
A	SIDE WALL RETURN/ EXHAUST	STEEL HEAVY DUTY RETURN GRILLE, 3/8" BLADE SPACING, 0 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION. FOR SIDE WALL MOUNTING. TITUS MODEL 3ORL.

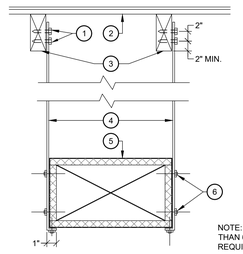
NOTES:
1. EQUIVALENT MODELS OF NAILOR, KRUEGER, ANEMOSTAT, PRICE OR J&J ARE ACCEPTABLE.
2. REFER TO THE FLOOR PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN AND FIRE/ SMOKE DAMPER, IF REQUIRED.
3. PROVIDE AIR CONTROL GRID FOR ALL CEILING SUPPLY DIFFUSERS SET AT 90°.



1. 1"x22 GA. GALV. S.M. STRAP, ATTACH TO STRUCTURE WITH (2) #10x1-1/4" CADMIUM PLATED SCREWS. MIN 1" EMBD.
2. (2) #10 x 3/4"Ø TEK SCREWS.
3. ROUND DUCTWORK, SEE PLAN FOR SIZE.

NOTES:
A. DUCT SUPPORTS SHALL BE 10'-0" O.C.
B. ALL DUCTS ARE LESS THAN 33"Ø, WEIGH 10 LBS./FT. OR LESS AND WILL NOT IMPACT OTHER DUCTS OR EQUIPMENT SO THEY DON'T REQUIRE DIAGONAL BRACING.

ROUND DUCT SUPPORT
N.T.S | 05



1. #10 CADMIUM PLATED SCREWS W/ 1-1/4" MIN. PENETRATION, (TYPICAL).
2. ROOF.
3. WOOD FRAMING MEMBER, SEE STRUCT. DWGS.
4. 1" x 18 GA. GALV. SHEET METAL STRAP @ 8'-0" O.C.
5. ACOUSTIC LINED GALVANIZED SHEET METAL DUCT - SEE MECHANICAL PLAN FOR SIZE.
6. #10 x 3/4" SELF TAPPING CADMIUM PLATED SHEET METAL SCREWS TO ANCHOR STRAPS TO DUCT. ALL STRAPS TO BE TIGHT AGAINST DUCT AND SUPPORT MEMBERS, (TYPICAL).

NOTE: THIS DETAIL IS FOR DUCTS SMALLER THAN 6 SQ. FT. CROSS AREA AND DO NOT REQUIRE LATERAL BRACING.

RECTANGULAR DUCT SUPPORT
N.T.S | 06

1. (E) WALL FRAMING
2. MOUNTING KIT FOR RECESSED APPLICATION, BY MANUFACTURE. SIZED TO FIT WITHIN EXISTING FRAMING.
3. #10x1-1/4" CADMIUM PLATED SCREWS. MIN 1" EMBED. (3) PER SIDE.
4. ELECTRIC WALL HEATER, PER MECHANICAL SCHEDULE.

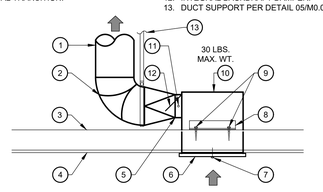
ELECTRIC WALL HEATER
N.T.S | 07

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1)					
		MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	AT JOINTS				
			MIN. HT. IN.	DRIVE SLIP / PLAIN S SLIP	HEMMED S SLIP	ALTERNT BAR SLIP	REIN-FORCED BAR SLIP
				RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1" x 1" x 1/8" @ 60 IN.	1		24	24	24
31 - 42	22	1" x 1" x 1/8" @ 60 IN.	1			22	22
43 - 60	20	1" x 1" x 1/8" @ 60 IN.	1				20
61 & ABOVE	18	1" x 1" x 1/8" @ 60 IN.	1				18

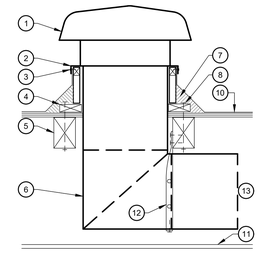
(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

DUCT CONSTRUCTION STANDARDS
N.T.S | 01

1. ROUND GALVANIZED SHEET METAL DUCT THRU ROOF, SEE MECHANICAL PLAN FOR SIZE.
2. ROUND GALVANIZED SHEET METAL 90° ELBOW.
3. 2x WOOD FRAMING OR 2x BLOCKING WITH U24 EACH END TO FRAMING.
4. GYPSUM BOARD CEILING, SEE ARCH. DRAWINGS.
5. SQUARE TO ROUND GALVANIZED SHEET METAL TRANSITION.
6. MOLDED WHITE PLASTIC GRILLE FURNISHED WITH EXHAUST FAN.
7. GRILLE BUTTON FURNISHED WITH FAN.
8. ADJUSTABLE MOUNTING FLANGE ON EACH SIDE, FURNISHED WITH EXHAUST FAN.
9. 1/4"Ø x 1-1/2" LAG SCREW INTO WOOD FRAMING OR BLOCKING.
10. CEILING MOUNTED EXHAUST FAN.
11. #7 x 1/2"Ø SHEET METAL SCREWS MIN. 4" O.C., TAPE WITH 2" HARDCAST TAPE
12. INTEGRAL BACKDRAFT DAMPER.
13. DUCT SUPPORT PER DETAIL 05/M0.02.



EXHAUST FAN CEILING MOUNTING
N.T.S | 02



1. RELIEF HOOD, SEE MECH. PLAN.
2. FACTORY ROOF CURB FURNISHED WITH HOOD.
3. #12 SMS LAG SCREW.
4. 2x WOOD LEVELING BLOCK, SHAPED TO MATCH ROOF SLOPE.
5. 4x6 BLKG W/ U46 EA. END.
6. 22 GA. GALV. SHEET METAL DUCT WITH ELBOW, SEE MECH. PLAN.
7. CANT STRIP WITH ROOFING FELTS.
8. 3/8"Ø BOLT W/ WASHER & NUT THRU STRUCT. AT 24" O.C.
9. NOT USED
10. FINISHED ROOF, SEE ARCH. DWGS.
11. CEILING, SEE ARCH. DWGS.
12. DUCT STRAP HANGER, PER SMACNA STANDARDS.
13. DUCT CONTINUATION TO GRILLE.

FIRE DAMPER (WALL GRILLE INSTALLATION)
N.T.S | 04

DIBD2
Curtain Type Dynamic Fire Dampers
1 1/2 Hour UL555 Rated For Use In Dynamic And Static System

RUSKIN AUTHORITY IN AIR CONTROL

APPLICATION

Ruskin Model DIBD2 is a 1 1/2 hour UL classified dynamic (fans on) or static (fans off) curtain style fire damper for use in HVAC systems that remain in operation during a fire. Fire dampers are used for the protection of openings in walls, partitions, or masonry floors with fire resistance ratings of less than 3 hours and shall have a 1 1/2 hour fire protection rating. The DIBD2 can be installed vertically in walls or horizontally in masonry floors and is rated for airflow in either direction.

STANDARD CONSTRUCTION

Frame and Blades Material	Galvanized steel or stainless steel (in gauges required by UL listing R-5531).
Closure Springs	301 stainless steel constant force or spring clip type. Note: Vertical units 24" x 24" (610 x 610) and smaller utilize spring clips only and do not have constant force springs.
Fusible Link	165°F (74°C) is standard. 212°F (100°C) and 285°F (141°C) are available as options.

DYNAMIC CLOSURE RATINGS

4000 fpm (20.3 m/s) vertical mount only, up to 24" x 24" (610 x 610).

3000 fpm (15.2 m/s) vertical and horizontal mount, up to 24" x 24" (610 x 610).

2000 fpm (10.2 m/s) vertical or horizontal mount on all sizes.

4 in. w.g. (1 kPa) maximum pressure on all sizes.

DAMPER SIZES

See pages 2 – 5 for minimum and maximum UL sizes.

See pages 6 – 9 for construction details on multiple section assemblies.

OPTIONS

True Round Fire Damper: See model FDR25.

Stainless Steel Construction: See model (D)IBD2SS.

SP200 Switch Package to allow remote indication of damper blade position.

FAST Angles factory supplied one-side installation. Other angles of various sizes and gauges also available for one-side or two-side installation.

Factory Sleeves of various lengths and gauges to ensure field compliance with UL installation requirements.

MCP Control panels for monitoring purpose.

Grille Mounting See (D)IBD2G or (D)IBD2OG models.

'GA' Grille Access See (D)IBD2GA models.

'OW' Out of Wall See (D)IBD2/OW models.



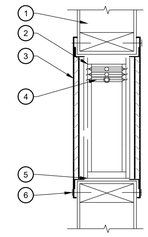
SQ9001 FIRST EDITION — 5 YEAR LIMITED WARRANTY

Models DIBD2 series meet the requirements for fire dampers established by:
- **National Fire Protection Association** NFPA Standards 80, 90A, 92A, 92B and 101
- **ICC International Building Codes**
- **CSFM California State Fire Marshal** DIBD2 #3225-0245:0005

SEE COMPLETE MARKING ON PRODUCT

UL CLASSIFIED
UL555 Listing R5531
ULC S102

CSFM LISTING #: 3225-0245:0005



1. FIRE RATED WALL, SEE ARCHITECTURAL DRAWINGS.
2. RUSKIN 1-1/2 HR CURTAIN TYPE DYNAMIC FIRE DAMPER, MODEL DIBD2.
3. SIDEWALL GRILLE - REMOVABLE FOR FUSIBLE LINK ACCESS. ON EA. SIDE OF WALL.
4. FUSIBLE LINK
5. FIRE DAMPER SLEEVE, INSTALL PER MFGR. REQUIREMENTS.
6. #10 SCREW W/ 1" MIN. PENETRATION INTO FRAMING MEMBER, MAX. 12" O.C. AND MIN. ONE PER SIDE.

NOTES:
A. FIRE DAMPER & INSTALLATION TO BE IN ACCORDANCE WITH CALIFORNIA STATE FIRE MARSHAL # LISTED ABOVE.
B. FIRE/SMOKE DAMPER SHALL BE STATE FIRE MARSHAL APPROVED & INSTALLED STRICTLY PER MFG'S PRINTED INSTRUCTIONS.
C. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTION AUTHORITIES.
D. FIRE/SMOKE DAMPER DETAIL FOR REFERENCE ONLY.

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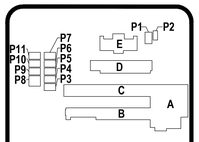
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KEY PLAN — TRUE NORTH — PROJECT NORTH

REGISTERED PROFESSIONAL ENGINEER
KAREN M. LENCIONI
NO. 33380
REN. 6/30/25
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STATE OF CALIFORNIA

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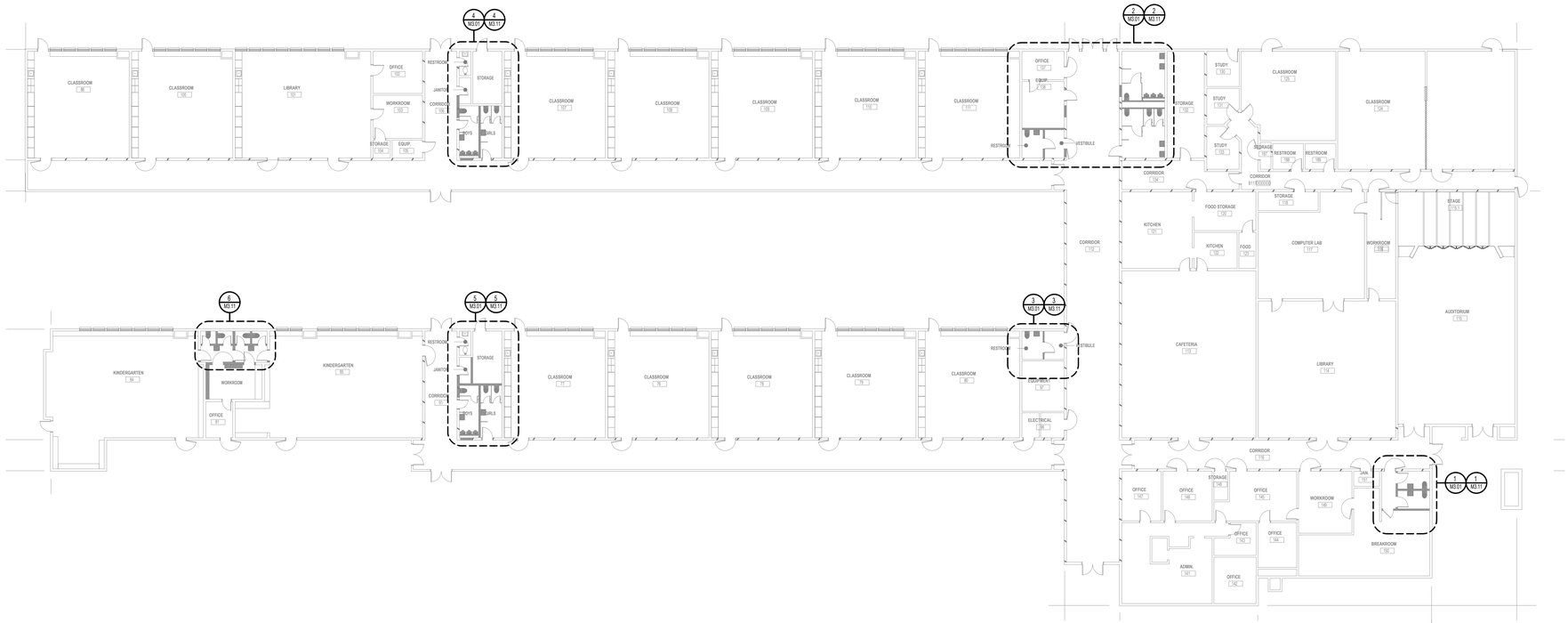
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MECHANICAL SCHEDULES & DETAILS

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1 MECHANICAL OVERALL FLOOR PLAN
SCALE: NTS

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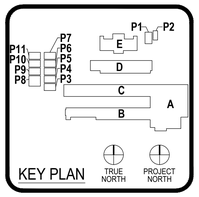
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KEY PLAN

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REN. 6/30
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STATE OF CALIFORNIA

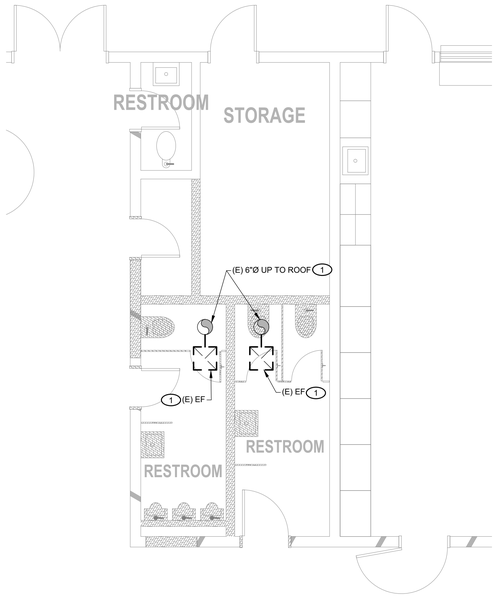
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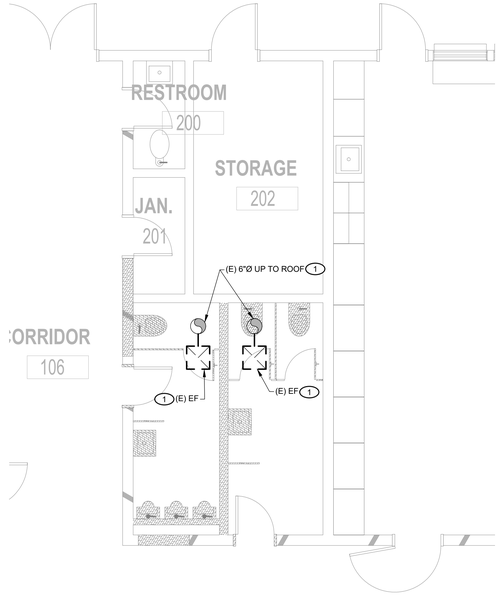
MECHANICAL OVERALL FLOOR PLAN

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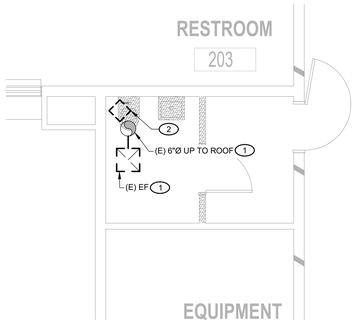
5 MECHANICAL ENLARGED FLOOR PLAN - DEMO
SCALE: 1" = 20'-0"



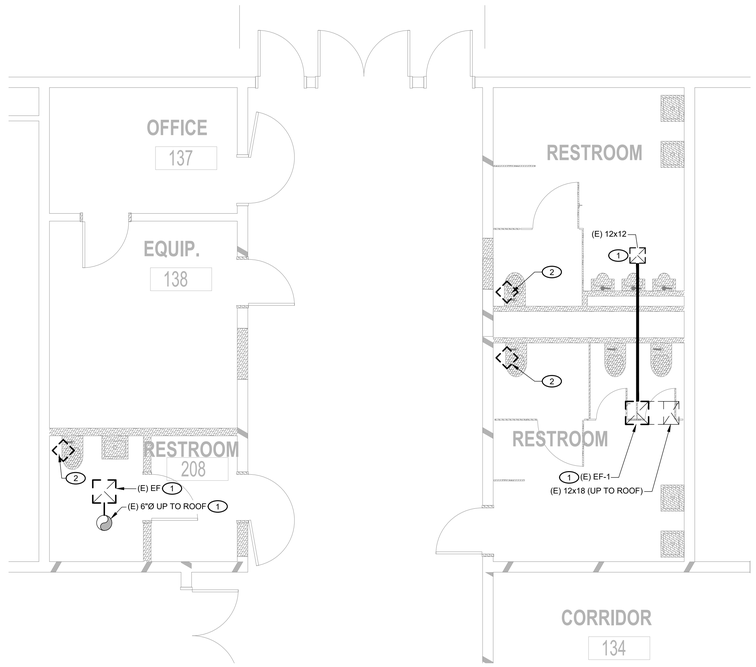
4 MECHANICAL ENLARGED FLOOR PLAN - DEMO
SCALE: 1" = 20'-0"

KEYNOTES

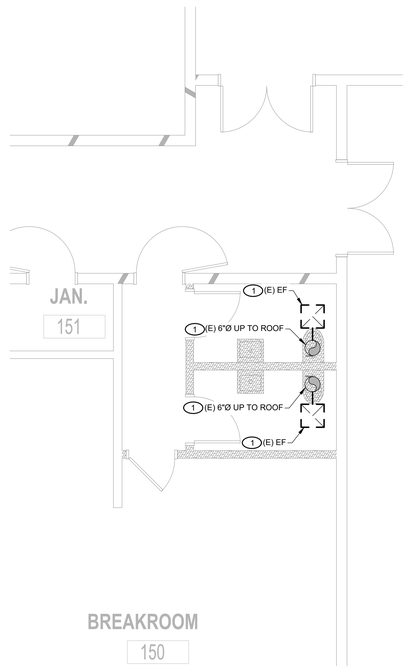
1. DEMOLISH EXISTING EXHAUST FAN, ASSOCIATED DUCTWORK AND SUPPORTS, AND EXHAUST HOOD/CAP. PREPARE FOR INSTALLATION OF NEW EXHAUST FANS AND EXHAUST HOODS. PREPARE OPENING THROUGH ROOF FOR NEW EXHAUST DUCT PENETRATION.
2. DEMOLISH EXISTING ELECTRIC UNIT HEATER, CONTROLS, AND SUPPORTS.



3 MECHANICAL ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



2 MECHANICAL ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



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

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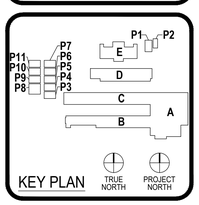
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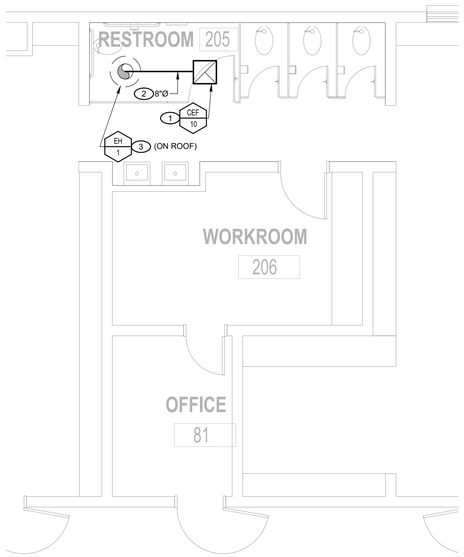
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MECHANICAL ENLARGED FLOOR PLAN - DEMO

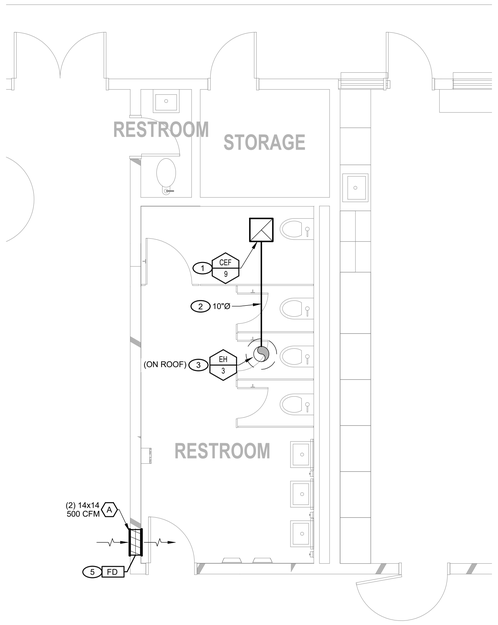
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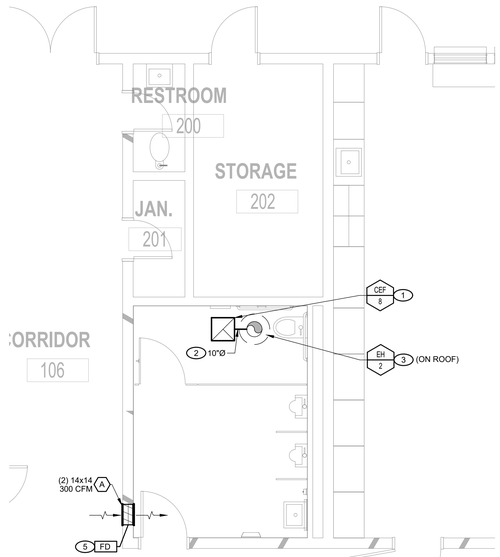
A6.01 - EXTERIOR ELEVATIONS



6 MECHANICAL ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



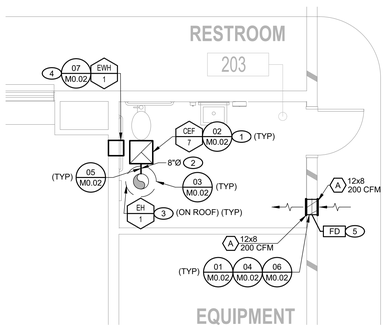
5 MECHANICAL ENLARGED FLOOR PLAN - NEW
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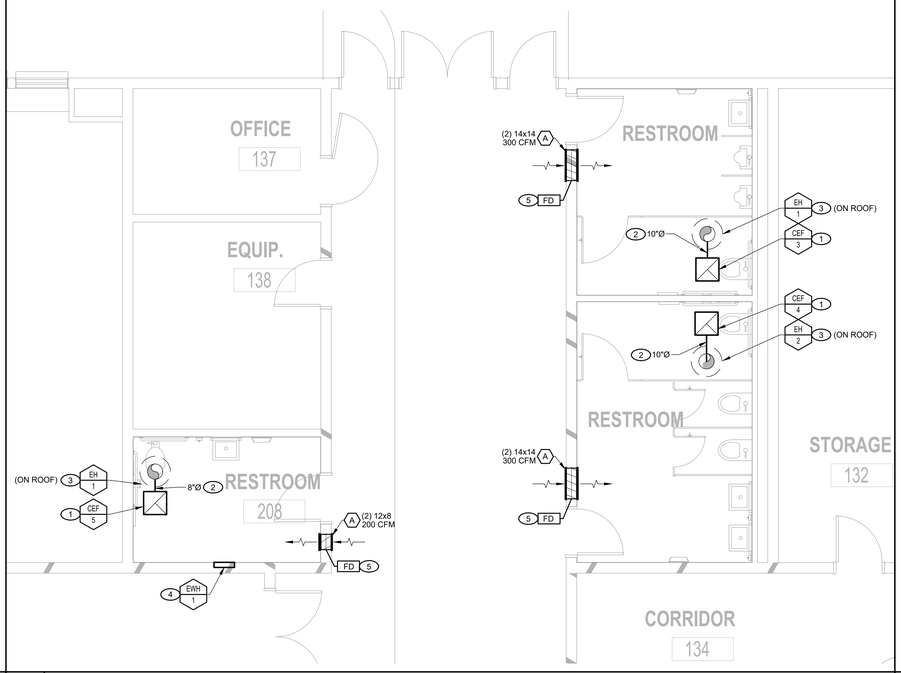
4 MECHANICAL ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"

KEYNOTES

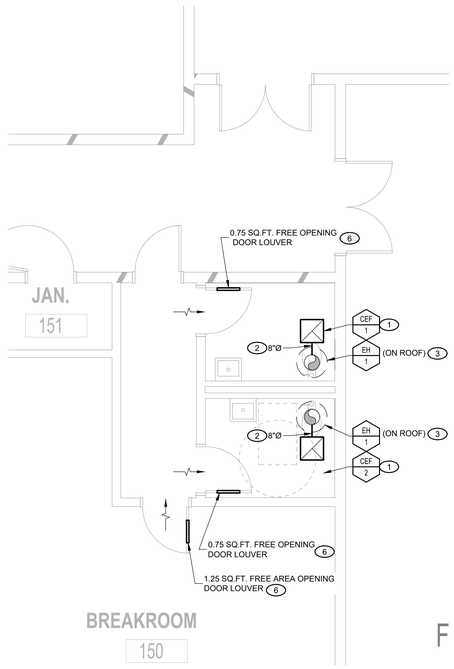
1. NEW EXHAUST FAN. SEE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2. NEW DUCTWORK AND SUPPORTS. COORDINATE DUCT ROUTING AND INSTALLATION WITH ALL EXISTING AND NEW CONDITIONS, TYPICAL.
3. NEW EXHAUST HOOD, ON ROOF. SEE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. MAINTAIN A MIN. OF 10'-0" CLEARANCE TO ALL OUTSIDE AIR INTAKES, TYPICAL.
4. NEW ELECTRIC WALL HEATER. SEE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
5. NEW FIRE DAMPER AND ASSOCIATED REGISTER/GRILLES, UP HIGH, TIGHT TO CEILING.
6. NEW DOOR LOUVER. REFER TO ARCHITECTURAL PLANS FOR DOOR LOUVER SPECIFICATIONS.



3 MECHANICAL ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



2 MECHANICAL ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



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

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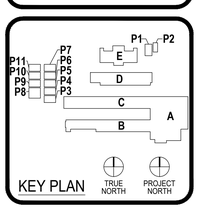
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GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
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LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/12/2024
DRAWN BY: CHKD BY:
REVISIONS

#	DESCRIPTION	DATE

MECHANICAL ENLARGED FLOOR PLAN - NEW

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M3.11

A6.01 - EXTERIOR ELEVATIONS

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
WC 1	WATER CLOSET (ACCESS.)	3"	2"	1-1/4"	--	KOHLER K-4325 KINGSTON ELONGATED WALL MOUNTED WITH SLOAN ROYAL 111-1.28 ES-S MANUAL FLUSH VALVE WITH METAL COVER AND Z5955SS-EL OPEN-FRONT SEAT. 1.28 GPF. MOUNT FLUSH VALVE HANDLE ON WIDE SIDE OF STALL. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS.
WC 2	WATER CLOSET	3"	2"	1-1/4"	--	KOHLER K-4325 KINGSTON ELONGATED WALL MOUNTED WITH SLOAN ROYAL 111-1.28 ES-S MANUAL FLUSH VALVE WITH METAL COVER AND Z5955SS-EL OPEN-FRONT SEAT. 1.28 GPF. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS.
WC 3	WATER CLOSET (ACCESS.)	3"	2"	1-1/4"	--	KOHLER K-96057 HIGHCLIFF ULTRA ELONGATED FLOOR MOUNTED TOILET WITH SLOAN ROYAL 111-1.28 ES-S MANUAL FLUSH VALVE WITH METAL COVER AND Z5955SS-EL OPEN-FRONT SEAT. 1.28 GPF. SEE ARCH. SHEETS FOR MOUNTING HEIGHT.
WC 4	WATER CLOSET	3"	2"	1-1/4"	--	KOHLER K-96064 PRIMARY ELONGATED FLOOR MOUNTED WITH SLOAN ROYAL 111-1.28 ES-S MANUAL FLUSH VALVE WITH METAL COVER AND ZURN Z5959SS-JUV-EL OPEN-FRONT SEAT.
U 1	URINAL	2"	1-1/2"	1-1/4"	--	KOHLER K-4991-ET BARDON WALL-HUNG FLUSH RIM, 3/4" TOP SPUD WITH SLOAN 186-0.125 MANUAL FLUSH VALVE. 1/8 GPF. AND MOUNTED WITH BACKING PLATE PER DETAIL 05/P6.01. WALL CLEAN-OUT TO BE MOUNTED ABOVE URINAL FOR ACCESS. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS.
L 1	LAVATORY (ACCESS.)	2"	1-1/2"	1/2"	--	KOHLER K-2007 KINGSTON, WALL-HUNG, 20"X16" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, ONE HOLES, CHICAGO 116.121.AB.1 SENSOR FAUCET. ZURN Z1253 WALL MOUNT CARRIER WITH CONCEALED ARMS AND 1/2" BOLTS MOUNTED PER DETAIL 05/P6.01. CONTRACTOR SHALL COORDINATE WITH WALL FRAMER TO AVOID CONFLICT WITH CARRIER. 0.35 GPM FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS.
L 2	LAVATORY (STAFF, ACCESS.)	2"	1-1/2"	1/2"	1/2"	KOHLER K-2007 KINGSTON, WALL-HUNG, 20"X18" VITREOUS CHINA WITH BACKSPLASH & WALL BRACKET, ONE HOLE, CHICAGO 116.121.AB.1 SENSOR FAUCET. ZURN Z1253 WALL MOUNT CARRIER WITH CONCEALED ARMS AND 1/2" BOLTS MOUNTED PER DETAIL 5/P6.01. CONTRACTOR SHALL COORDINATE WITH WALL FRAMER TO AVOID CONFLICT WITH CARRIER. 0.35 GPM FLOW RESTRICTOR, PERFORATED GRID DRAIN, P-TRAP, SPEEDWAY COMPRESSION WALL STOP & SUPPLY TUBING. SEE ARCH. SHEETS FOR MOUNTING HEIGHT. CBC COMPLIANT FOR ACCESS. PROVIDE WITH MV-1.
MV 1	MIXING VALVE	--	--	1/2"	1/2"	BRADLEY S59-4000 POINT OF USE MIXING VALVE, INLINE CHECK VALVES. ADJUSTABLE SET POINT TEMPERATURE CONTROL, SET OUTLET TEMPERATURE AT 110°F. 0.35 GPM MINIMUM FLOW.
WHA 1	WATER HAMMER ARRESTER	--	--	VARIES	VARIES	PPP SC-750B, SEAMLESS COPPER CHAMBER SUITABLE FOR CONCEALED INSTALLATION. PDI SIZE INDICATED ON PLANS. INSTALL PER MANUFACTURER RECOMMENDATION. INSTALL AT END OF LINE AT ALL QUICK CLOSING FIXTURES.
TP 1	TRAP PRIMER	--	--	1/2"	--	PRECISION PLUMBING PRODUCTS INC. P1-500 TRAP PRIMER VALVE WITH DISTRIBUTION UNIT AND INTEGRAL VACUUM BREAKER. PROVIDE INLET BALL VALVE AND ACCESS PANEL. SEE PLANS FOR NO. OF TRAPS SERVED (MAXIMUM OF 4).
HB 1	HOSE BIBB	--	--	3/4"	--	BRASS FAUCET, SHIELDED LOOSE KEY HANDLE, NON REMOVABLE VACUUM BREAKER, & ROUGH CHROME FINISH FOR OUTDOORS; POLISHED CHROME INDOORS.WOODFORD 24P-3/4 WITH WALL FLANGE AT WALLS.
FD 1	FLOOR DRAIN	2"	1-1/2"	TP	--	ZURN ZN415-5B COATED CAST IRON WITH 5" ROUND CHROME PLATED GRATE. DOUBLE DRAINAGE FLANGE & NO HUB OUTLET. TRAP PRIMER CONNECTION. GRATE OPENING NOT MORE THAN 1/4".
WH 1	WATER HEATER	--	--	1/2"	1/2"	CHRONOMITE CM-30L/208, 208 V/ 1 PH, 30 AMPS, 6240 WATTS, 61 DEG RISE AT 0.35 GPM FOR TWO LAVS. MOUNT BELOW LAVATORY

NOTES:
1. ALL PLUMBING FIXTURES, FLUSH VALVES, FAUCETS, FLOOR DRAINS, FLOOR SINKS, DRINKING FOUNTAINS, ETC. SHALL BE VANDAL RESISTANT.
2. ALL PLUMBING FIXTURES SHALL COMPLY WITH CAL GREEN FLOW RATES FOR 20 PERCENT FLOW RATE REDUCTION PER TABLE 5.303.2.3.
3. FIXTURES WITH HARD WIRED SENSORS: PLUMBER TO PROVIDE TRANSFORMER AND INSTALL ALL LOW VOLTAGE WIRING. ELECTRICAL TO PROVIDE POWER TO TRANSFORMER. PROVIDE A TRANSFORMER FOR UP TO 8 SENSORS WITH MAXIMUM DISTANCE OF 20 FT FROM TRANSFORMER TO SENSOR. TRANSFORMER TO BE MOUNTED IN A 4"X4" JUNCTION BOX MOUNTED AT +18" A.F.F. WITH A BLANK STAINLESS STEEL COVER PLATE.
4. PROVIDE SEPARATE STOP VALVES AT SINKS FOR FAUCETS, BUBBLERS, DISHWASHER, EYEWASHES, ETC.
5. PROVIDE WRAP BELOW ALL ADA LAVATORIES AND SINKS.

CAL GREEN REQUIREMENTS

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

5.303.1 METERS: SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR USES DESCRIBED IN SECTIONS 5.303.1.1 AND 5.303.1.2.

5.303.1.1 NEW BUILDINGS OR ADDITIONS IN EXCESS OF 50,000 SQUARE FEET:

1. FOR EACH INDIVIDUAL LEASED, RENTED, OR OTHER TENANT SPACE WITHIN THE BUILDING PROJECTED TO CONSUME MORE THAN 100 GAL/DAY, INCLUDING, BUT NOT LIMITED TO, SPACES USED FOR LAUNDRY OR CLEANERS, RESTAURANT OR FOOD SERVICE, MEDICAL OR DENTAL OFFICE, LABORATORY, OR BEAUTY SALON OR BARBER SHOP.
2. WHERE SEPARATE SUBMETERS FOR INDIVIDUAL BUILDING TENANTS ARE UNFEASIBLE, FOR WATER SUPPLIED TO THE FOLLOWING SUBSYSTEMS:
   a. MAKE-UP WATER FOR COOLING TOWERS WHERE FLOW THROUGH IS GREATER THAN 500 GPM.
   b. MAKE-UP WATER FOR EVAPORATIVE COOLERS GREATER THAN 6 GPM.
   c. STEAM AND HOT-WATER BOILERS WITH ENERGY INPUT MORE THAN 500,000 BTU/H.

5.303.1.2 EXCESS CONSUMPTION: A SEPARATE SUBMETER OR METERING DEVICE SHALL BE PROVIDED FOR ANY TENANT WITHIN A NEW BUILDING OR WITHIN AN ADDITION THAT IS PROJECTED TO CONSUME MORE THAN 1,000 GAL/DAY.

5.303.2 RESERVED

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS: PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

5.303.3.1 WATER CLOSETS: THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS. NOTE: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

5.303.3.2 URINALS:

5.303.3.2.1 WALL-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH.

5.303.3.2.2 FLOOR-MOUNTED URINALS: THE EFFECTIVE FLUSH VOLUME OF FLOOR-MOUNTED URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

5.303.3.3 SHOWERHEADS:

5.303.3.3.1 SINGLE SHOWERHEAD: SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 2.0 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

5.303.3.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER: WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

5.303.3.4 FAUCETS AND FOUNTAINS:

5.303.3.4.1 NONRESIDENTIAL LAVATORY FAUCETS: LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.2 KITCHEN FAUCETS: KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

5.303.3.4.3 WASH FOUNTAINS: WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE/20 [RIM SPACE (INCHES) AT 60 PSI].

5.303.3.4.4 METERING FAUCETS: METERING FAUCETS SHALL NOT DELIVER MORE THAN 0.20 GALLONS PER CYCLE.

5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS: METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI].
NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

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

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

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 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A 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 START OF AND DURING THE HANGING AND BRACING OF DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

MP ☐ MD ☐ PP ☒ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☐ E ☐ OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) #_____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

GENERAL NOTES

1. SUPPORT AND BRACING OF ALL PIPING SHALL BE IN ACCORDANCE WITH 2022 C.B.C.
2. DRAINAGE PIPING SMALLER THAN 4" SHALL SLOPE 1/4" PER FOOT.
3. FOR PLUMBING FIXTURE MOUNTING HEIGHTS AND LOCATIONS, REFER TO ARCHITECTURAL DRAWINGS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PIPE ROUTING WITH WORK OF OTHER TRADES AND MAKE ANY OFFSETS AS REQUIRED TO AVOID CONFLICT WITH DUCTWORK, LIGHT FIXTURES, SKYLIGHTS, ETC.
5. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL GAS AND CONDENSATE DRAIN CONNECTIONS TO MECHANICAL EQUIPMENT.
6. ALL PIPE, PIPE OR PLUMBING FITTING OR FIXTURE, SOLDER, OR FLUX SHALL BE LEAD FREE THAT PROVIDES WATER FOR HUMAN CONSUMPTION PER CALIFORNIA ASSEMBLY BILL 1953.
7. GALVANIZED MALLEABLE IRON, GALVANIZED WROUGHT IRON, OR GALVANIZED STEEL ARE PROHIBITED MATERIALS FOR WATER SUPPLY AND BUILDING WATER PIPING BOTH UNDERGROUND AND IN BUILDINGS.

SHEET INDEX

P0.01	PLUMBING SHEET INDEX, LEGEND, NOTES & SCHEDULES
P2.01	PLUMBING OVERALL FLOOR PLAN
P3.01	PLUMBING ENLARGED DEMOLITION FLOOR PLAN - WASTE AND VENT
P3.02	PLUMBING ENLARGED DEMOLITION FLOOR PLAN - HOT AND COLD WATER
P3.11	PLUMBING ENLARGED FLOOR PLAN - WASTE AND VENT
P3.12	PLUMBING ENLARGED FLOOR PLAN - HOT AND COLD WATER
P6.01	PLUMBING DETAILS

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
S 1	FIXTURE DESIGNATION UNIT ABBREVIATION NUMBER	
D1 M-1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HW RETURN	HWR
	EXISTING PIPING	
	POINT OF CONNECTION	POC
C	CONDENSATE DRAIN	VCD
	SHUT-OFF VALVE IN BOX	SOV
	PIPING RISE	OBD
	PIPING DROP	BDD
S W	SOIL OR WASTE	S OR W
V	VENT	V
	VENT THRU ROOF	VTR
GW	GREASE WASTE	GW
AW	ACID WASTE	AW
AV	ACID VENT	AV
	ACID VENT THRU ROOF	AVTR
	FLOOR CLEANOUT	FCO
	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	HOSE BIBB	HB
RD	ROOF DRAIN	RD
OD	OVERFLOW DRAIN	OD
	DOWN SPOUT	DS
	UNDERGROUND	UG
TP	TRAP PRIMER	TP
SD	STORM DRAIN	SD
(E)	EXISTING	EXIST.
(N)	NEW	NEW
	UNDERFLOOR	UF
	OVERHEAD	OH
R	RELIEF	
D	DRAIN	
	CONDENSATE DRAIN CLEANOUT	CO
SD	SECONDARY CONDENSATE DRAIN	
FC	FURNACE CONDENSATE	
	GAS SHUT OFF VALVE	GSOV
	SAFETY RELIEF VALVE	
	GATE VALVE	GV
	PLUG VALVE	
	BALL VALVE	
P	PRESSURE GAUGE	PG
	FIRE WALL PENETRATION	
	CONDENSATE DRAIN TRAP	CDT
LPG	LIQUIFIED PETROLEUM GAS	LPG
G	NATURAL GAS	G
	FIRE SPRINKLER RISER	FSR
FSL	FIRE SPRINKLER LINE	FSL
	FIRE DEPARTMENT CONNECTION	FDC
	FINISHED FLOOR	FF
	ABOVE FINISHED FLOOR	AFF
	ABOVE FINISHED GRADE	AFG
	CEILING	CLG
	CONTINUATION	CONT.
	DRAWING	DWG
	EACH	EA
	FEET	FT
	HORSEPOWER	HP
	INVERT ELEVATION	IVT
	KILOWATTS	KW
	MECHANICAL	MECH
	SQUARE FEET	SF
	TYPICAL	TYP
	WATER HAMMER ARRESTER	WHA
TF	TRANSFORMER WITH ACCESS PANEL	TF

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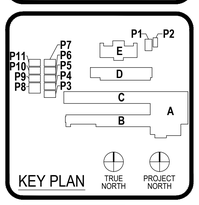
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LODI UNIFIED SCHOOL DISTRICT



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STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER 230216
DATE 04/12/2024
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

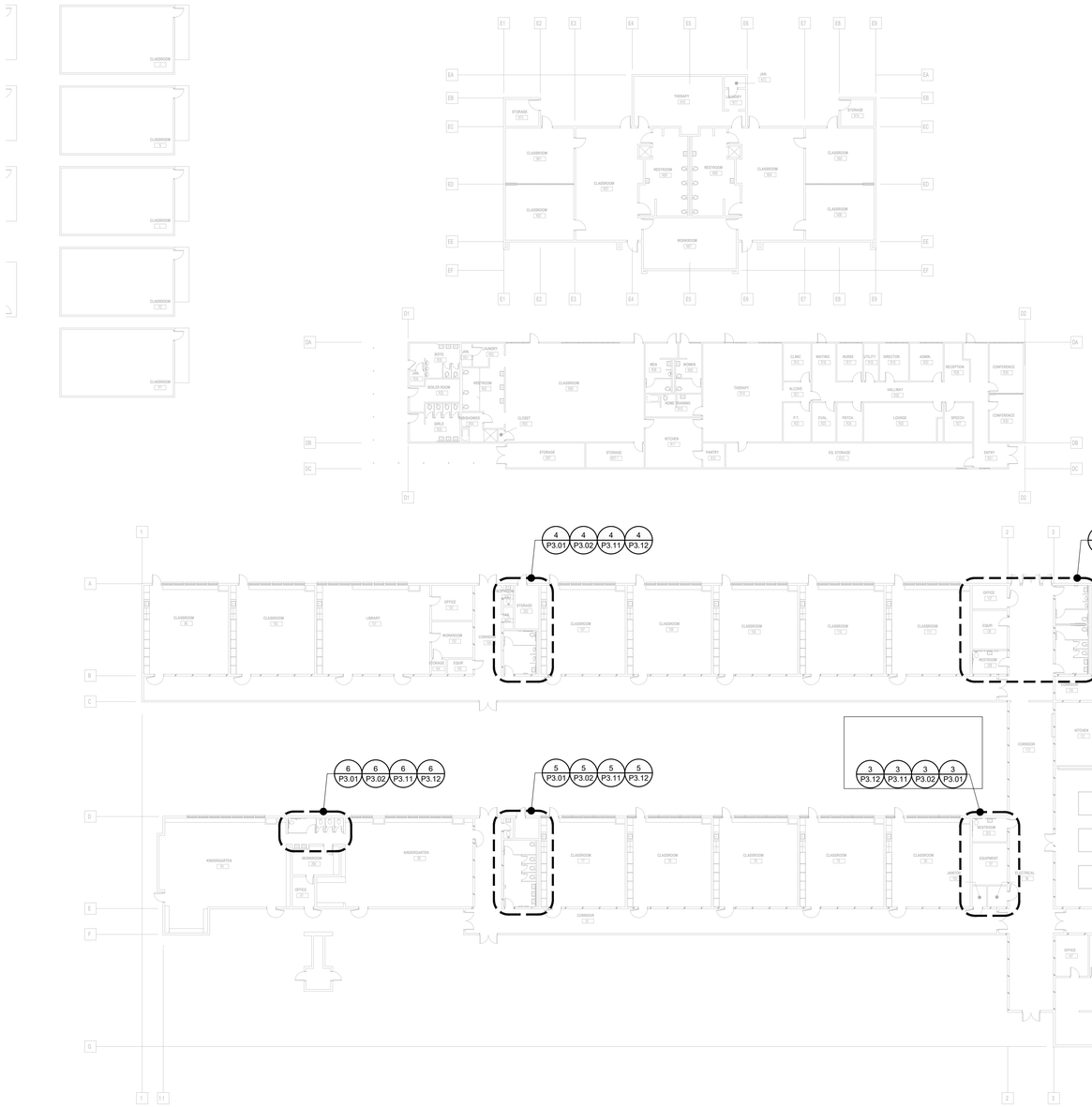
PLUMBING SHEET INDEX, LEGEND, NOTES

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A6.01 - EXTERIOR ELEVATIONS



1 PLUMBING OVERALL FLOOR PLAN
SCALE: 1" = 20'-0"

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APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

PBK

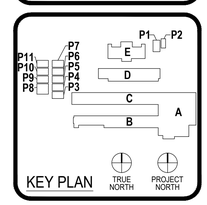
ARCHITECT PBK-WLC, Inc.
PBK-WLC.com
1100 Iron Point Road, Suite 200
Folsom, CA 95630
916-355-9922

CONSULTANT
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Folsom, CA 95630
916-355-9922
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GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT



REGISTERED PROFESSIONAL ENGINEER
CARMEN M. LENCIONI
NO. 33380
MECHANICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/12/2024
DRAWN BY: CHKED BY:

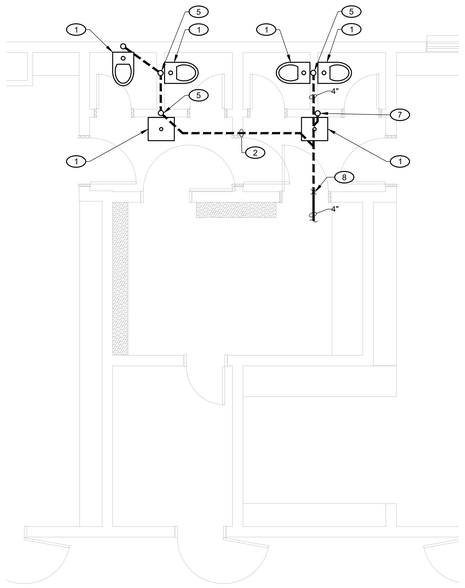
REVISIONS

#	DESCRIPTION	DATE

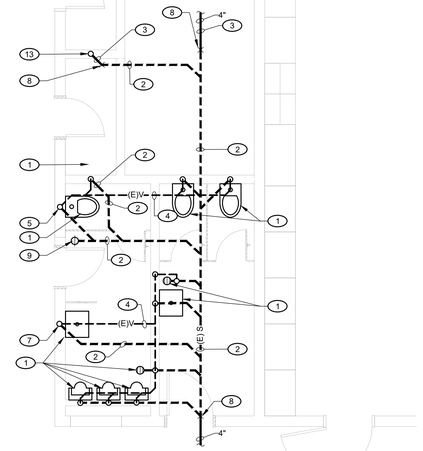
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PLUMBING OVERALL FLOOR PLAN

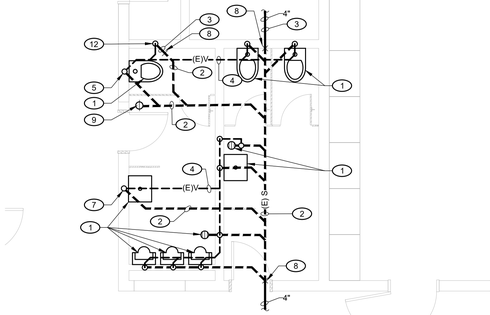
P2.01



6 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



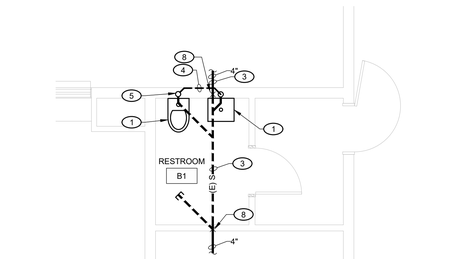
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SCALE: 1/4" = 1'-0"



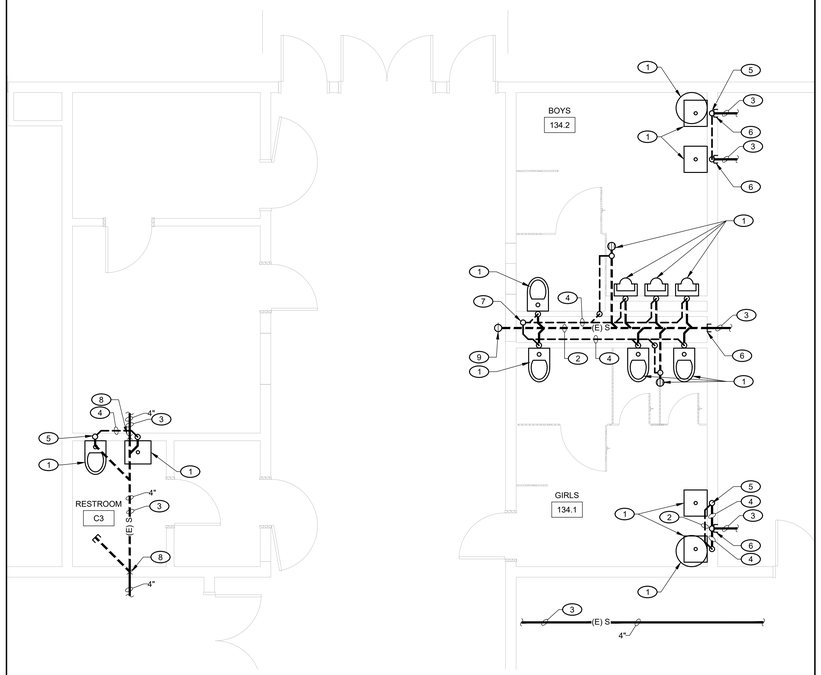
4 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"

KEYNOTES

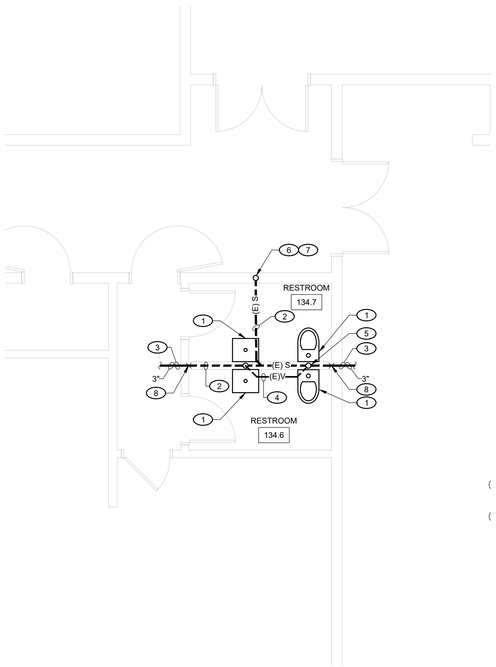
1. REMOVE FIXTURES & ROUGH-IN. ALL PIPING BELOW FLOOR TO BE REMOVED WHERE CONCRETE SLAB IS REMOVED.
2. EXISTING SEWER TO BE REMOVED.
3. EXISTING SEWER TO REMAIN.
4. EXISTING VENT PIPE TO BE REMOVED.
5. EXISTING VTR TO REMOVED AND REPLACED.
6. CAP EXISTING PIPE IN WALL/BELOW SLAB.
7. REMOVE VTR AND PATCH ROOF TO MATCH EXISTING.
8. DISCONNECT PIPE. SEE NEW PLAN FOR RECONNECTION.
9. CLEANOUT TO BE REMOVED.
10. REMOVE FIXTURE & ROUGH-IN. CAP PIPING BEHIND FINISHED SURFACE.
11. EXISTING FIXTURE & ROUGH-IN TO BE REMOVED AND REPLACED.
12. EXISTING VTR TO REMAIN.
13. EXISTING VENT PIPE TO REMAIN.



3 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



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

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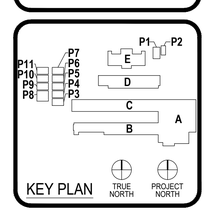
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GREGORY M. LENDOM
NO. 33380
10-31-25
MECHANICAL
STATE OF CALIFORNIA

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REVISIONS

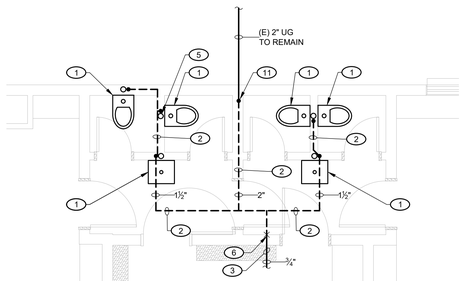
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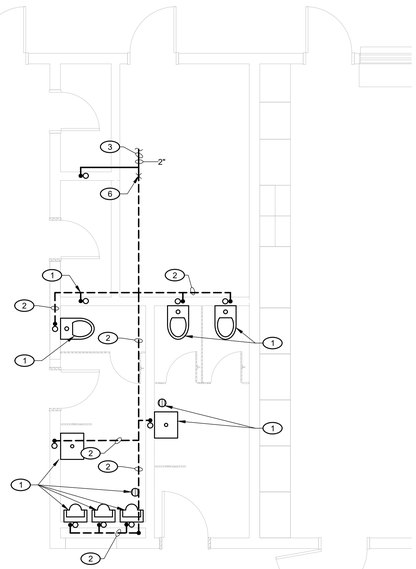
PLUMBING ENLARGED DEMOLITION FLOOR PLAN - WASTE & VENT

P3.01

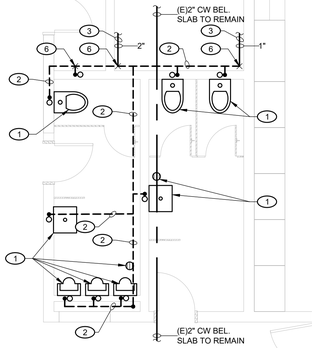
A6.01 - EXTERIOR ELEVATIONS



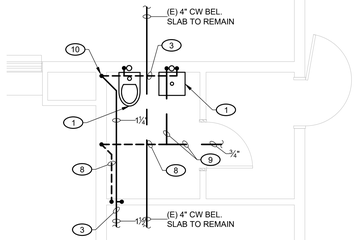
6 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



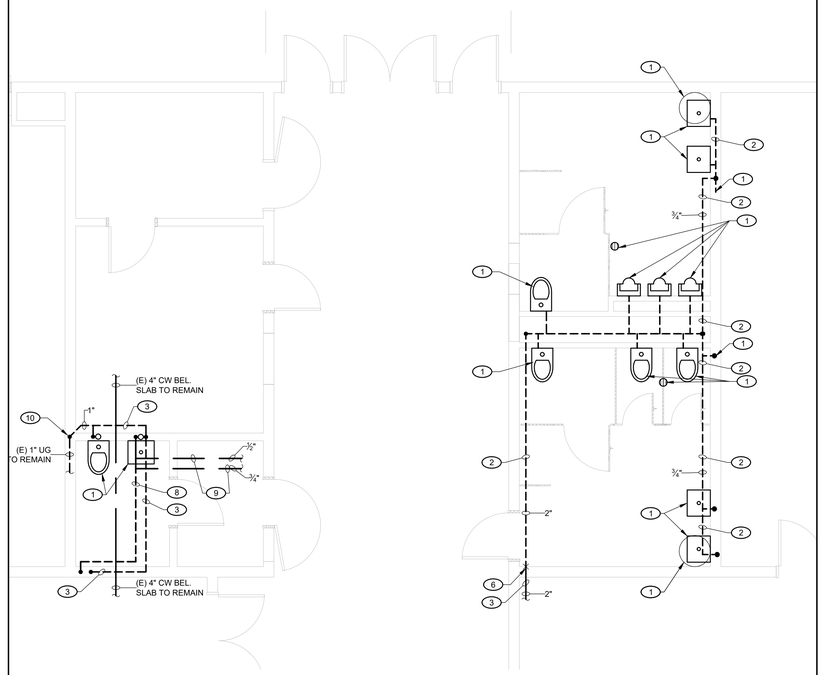
5 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



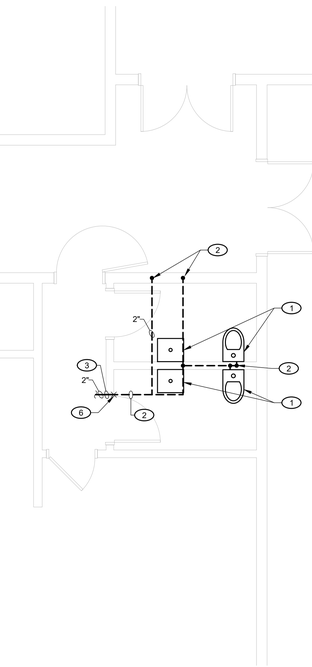
4 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



3 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - DEMO
SCALE: 1/4" = 1'-0"



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

KEYNOTES

1. REMOVE FIXTURES & ROUGH-IN. ALL PIPING BELOW FLOOR TO BE REMOVED WHERE CONCRETE SLAB IS REMOVED.
2. EXISTING CW TO BE REMOVED.
3. EXISTING CW TO REMAIN.
4. EXISTING SOV TO BE REMOVED.
5. CAP EXISTING PIPE IN WALL/BELOW SLAB.
6. DISCONNECT PIPE. SEE NEW PLAN FOR RECONNECTION.
7. EXISTING FIXTURE & ROUGH-IN TO BE REMOVED AND REPLACED.
8. EXISTING HW TO BE REMOVED.
9. EXISTING HW TO REMAIN.
10. EXISTING 1" CW RISER TO BE CAPPED.
11. EXISTING 2" CW RISER TO REMAIN.

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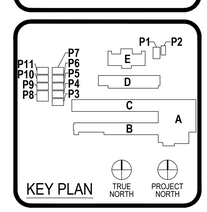
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PBK-WLC.com
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Folsom, CA 95630
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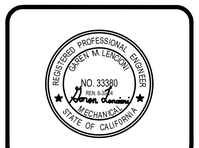
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LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT





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PROJECT NUMBER
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DRAWN BY: CHKED BY:
REVISIONS

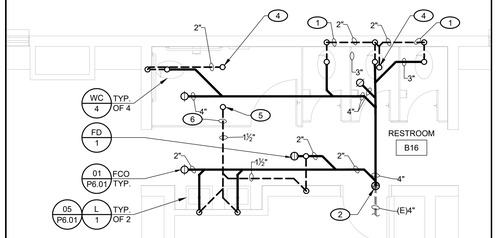
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PLUMBING ENLARGED DEMOLITION FLOOR PLAN - HOT AND COLD WATER

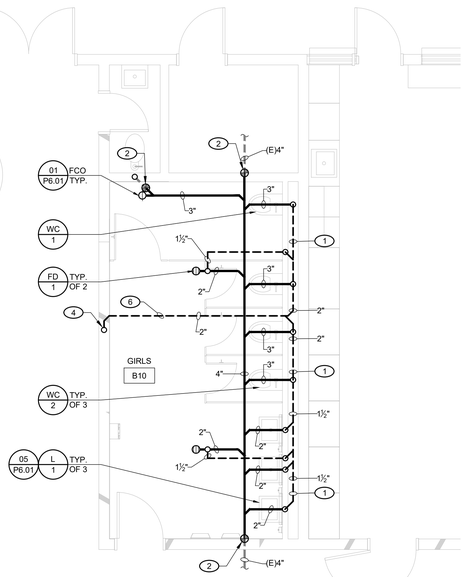
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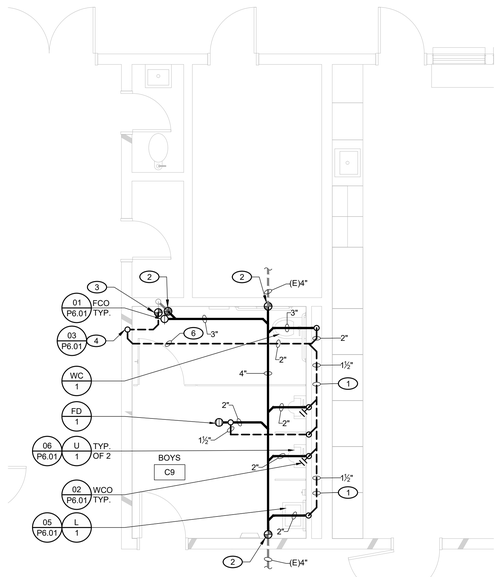
A6.01 - EXTERIOR ELEVATIONS



6 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



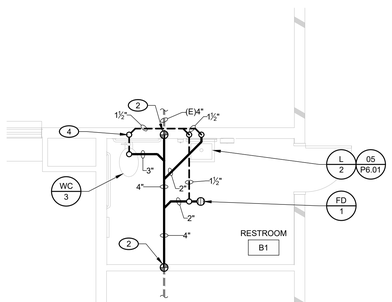
5 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



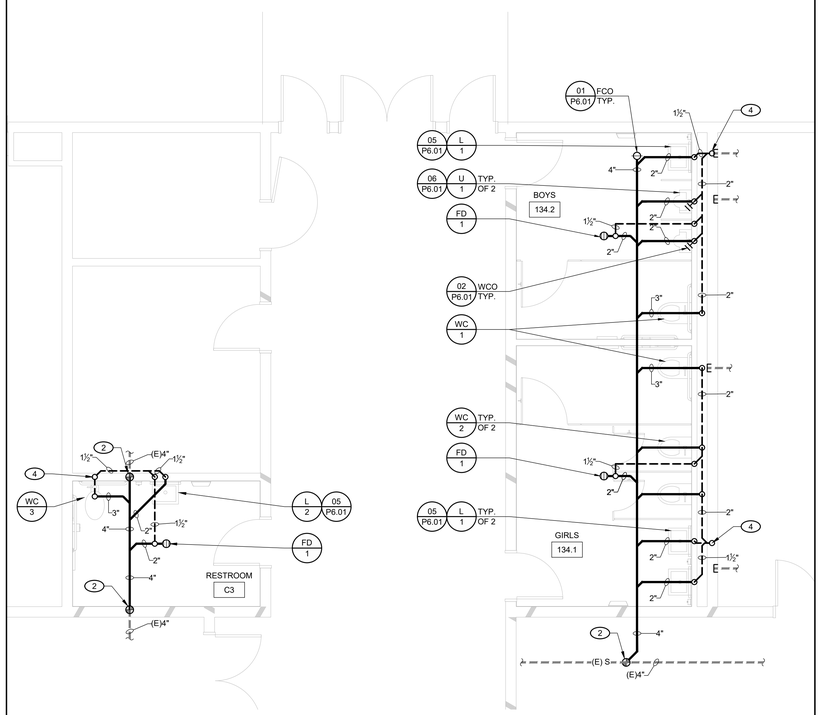
4 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"

KEYNOTES

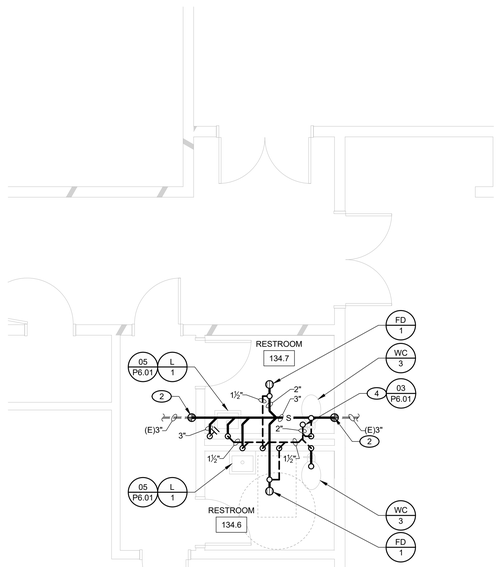
1. OFFSET PIPE IN WALL.
2. CONNECT (N) SEWER TO (E) SEWER. FIELD VERIFY SIZE, LOCATION AND CONDITION OF (E) SEWER LINE PRIOR TO THE START OF WORK.
3. CONNECT (N) VENT TO (E) VENT ABOVE CEILING. FIELD VERIFY SIZE, LOCATION AND CONDITION OF (E) VENT LINE PRIOR TO THE START OF WORK.
4. (N) 2" VTR TO REPLACE EXISTING.
5. (N) 1-1/2" VTR TO REPLACE EXISTING.
6. OFFSET PIPE ABOVE CEILING.



3 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



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

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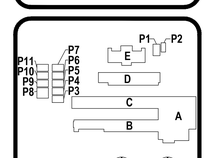
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LODI UNIFIED SCHOOL DISTRICT





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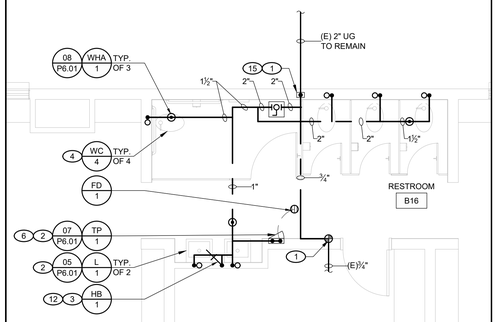
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PLUMBING ENLARGED FLOOR PLAN - WASTE & VENT

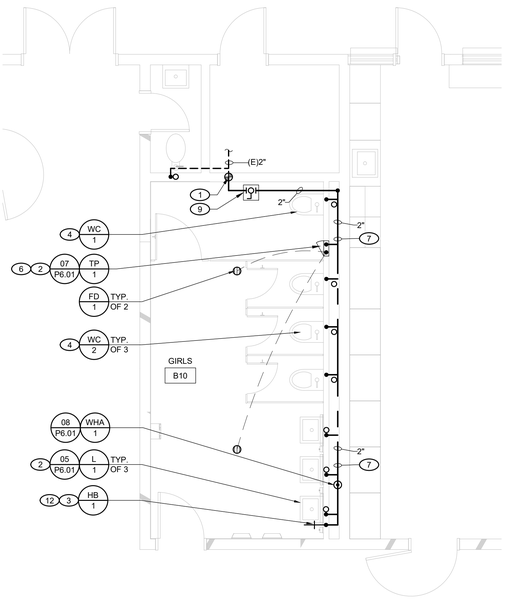
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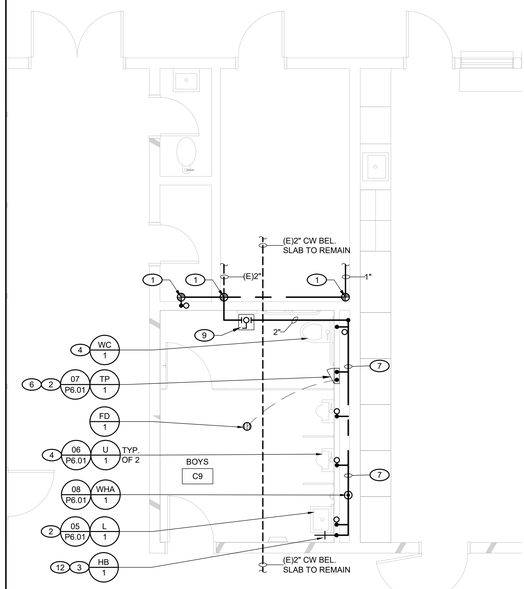
A6.01 - EXTERIOR ELEVATIONS



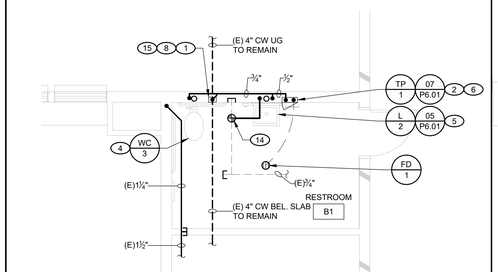
6 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



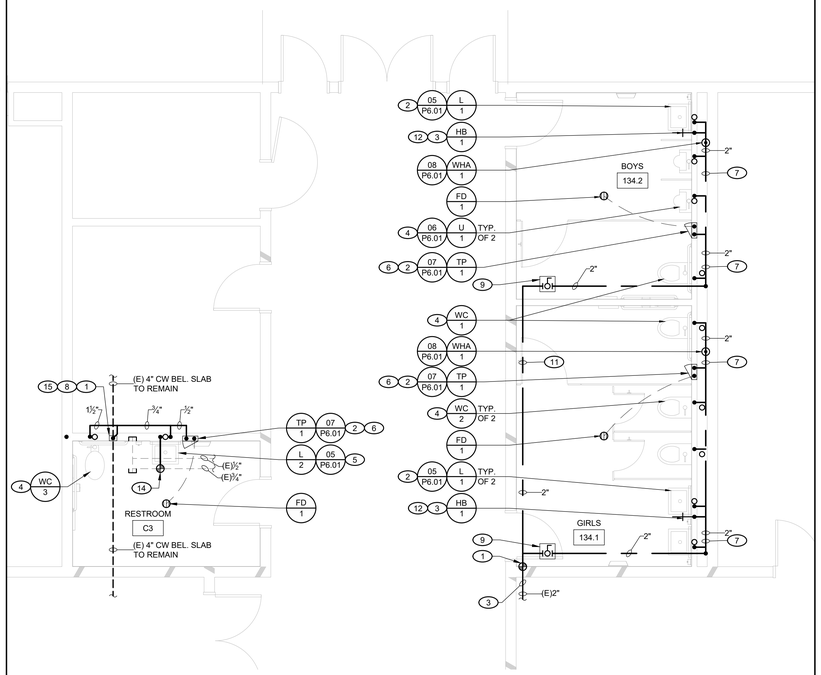
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SCALE: 1/4" = 1'-0"



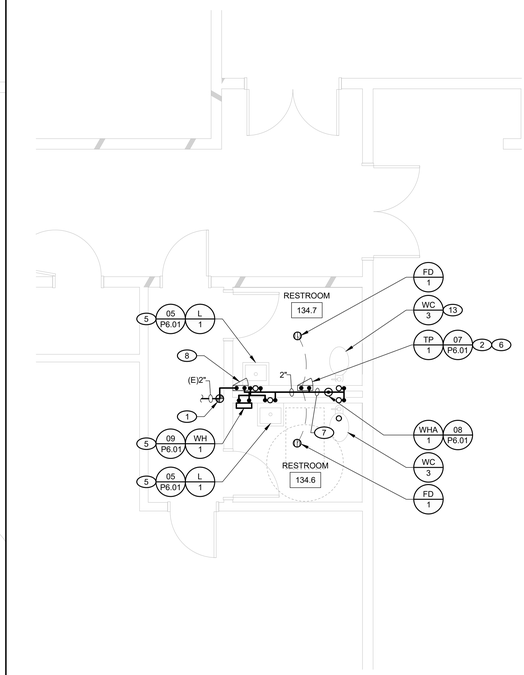
4 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



3 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



2 PLUMBING ENLARGED FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"



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

KEYNOTES

1. CONNECT (N) CW TO (E) CW. FIELD VERIFY SIZE, LOCATION AND CONDITION OF (E) CW LINE PRIOR TO THE START OF WORK.
2. ROUTE 1/2" CW DOWN IN WALL TO FIXTURE.
3. ROUTE 3/4" CW DOWN IN WALL TO FIXTURE.
4. ROUTE 1-1/2" CW DOWN IN WALL TO FIXTURE.
5. ROUTE 1/2" CW & HW DOWN IN WALL TO FIXTURE.
6. ROUTE 1/2" LINE BELOW GRADE FROM TRAP PRIMER TO FLOOR DRAIN.
7. 2" CW HEADER.
8. SOV'S BEHIND WALL ACCESS PANEL.
9. SOV'S ABOVE CEILING ACCESS PANEL.
10. OFFSET PIPE BELOW COUNTER OR IN WALL BELOW WINDOWS.
11. PIPE ROUTED IN ATTIC.
12. MOUNT HOSE BIBB A MINIMUM OF 18" ABOVE FINISHED FLOOR/GRADE.
13. ROUTE 2" CW DOWN IN WALL, TEE 1½" TO EACH FIXTURE.
14. CONNECT (N) HW TO (E) HW. FIELD VERIFY SIZE, LOCATION AND CONDITION OF (E) HW LINE PRIOR TO THE START OF WORK.
15. NEW 1½" CW RISER IN WALL.

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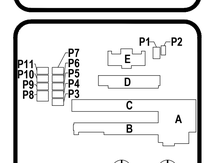
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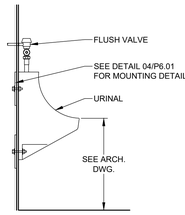
PLUMBING ENLARGED FLOOR PLAN - HOT AND COLD WATER

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P3.12

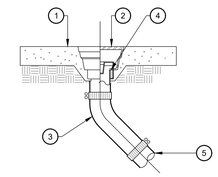
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A6.01 - EXTERIOR ELEVATIONS



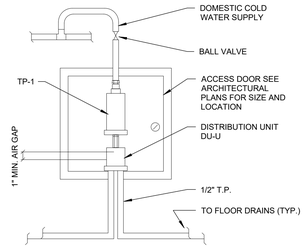
NOTE:
USE MOUNTING BOLTS THRU BACKING PLATE PROVIDED WITH URINAL.

URINAL MOUNTING 06
N.T.S

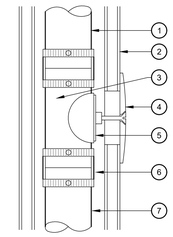


1. TOP OF CONCRETE FLOOR
2. ROUND ADJUSTABLE CAST IRON TOP, TRACTOR COVER. SET TOP FLUSH WITH FINISHED FLOOR.
3. C.I. 1/8 BEND
4. CAULK JOINT WITH LEAD NO WATER TO STAND ON LIP
5. C.I. DRAIN LINE

FLOOR CLEANOUT (FCO) 01
N.T.S

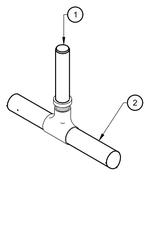


TRAP PRIMER CONNECTION 07
N.T.S



1. VENT STACK.
2. FACE OF WALL.
3. SANITARY TEE.
4. CHROME PLATED COVER & VANDAL PROOF SCREW.
5. THREADED PLUG.
6. NO-HUB COUPLING WITH STAINLESS STEEL CLAMP.
7. DRAIN LINE.

WALL CLEANOUT (WCO) 02
N.T.S



NOTES:
GROUP VALVES AND SIMILAR EQUIPMENT IN COMMON ACCESS PANELS WHEN APPLICABLE. ALL ITEMS SHALL BE FULLY OPERATIONAL AND SERVICEABLE.

FINAL SIZING AND MODEL SELECTION SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

WATER HAMMER ARRESTOR SHALL BE INSTALLED IN AN UPRIGHT POSITION.

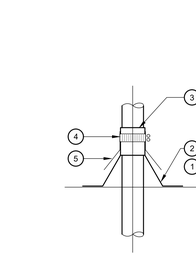
WATER HAMMER ARRESTOR SHALL BE INSTALLED AT EACH QUICK CLOSING FAUCET OR FLUSH VALVE UNLESS USED IN A BANK OF FIXTURE.

WHEN INSTALLING ON A BANK OF FIXTURES THE WATER HAMMER ARRESTOR SHALL BE INSTALLED BEFORE THE LAST FIXTURE ON THE BANK.

PIPE SIZING AND SELECTION TABLE		
PPP SIZE	FIXTURE UNITS	CROSS REF. PDI
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1-1/4"	61-113	D
1-1.2"	114-154	E
2"	155-330	F

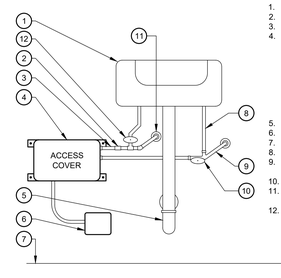
1. WATER HAMMER ARRESTOR CONCEALED IN CEILING.
2. REFER TO PLANS FOR SIZE AND LOCATION OF PIPE.

WATER HAMMER ARRESTOR 08
N.T.S



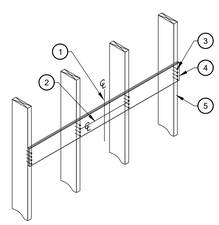
1. FINISHED ROOF.
2. SHEET METAL FLASHING.
3. SILICONE SEAL ALL AROUND.
4. SCREW BAND.
5. COUNTERFLASHING.

PIPE THRU ROOF DETAIL 03
N.T.S



1. LAVATORY.
2. FLOW CONTROL.
3. HOT WATER OUTLET.
4. INSTANTANEOUS WATER HEATER MTD. ON WALL BELOW LAV. WITH: (4) 3/16" SCREWS W/ 2" MIN. PENETRATION INTO 2x BLKG. OR STUDS. OPERATING WT. 5 LBS. ATTACH 2x BLOCKING TO STUDS WITH SIMPSON A34 TOP AND BOTTOM EACH END. 3-8d NAILS PER A34 LEG.
5. P-TRAP.
6. ELECTRICAL J-BOX AND CONDUIT.
7. FINISHED FLOOR.
8. COLD WATER TO FAUCET.
9. COLD WATER SUPPLY WITH ESCUTCHEON AT WALL.
10. DUAL OUTLET ANGLE VALVE.
11. HOT WATER THRU WALL TO AND OVER TO NEXT LAVATORY.
12. HOT WATER SHUT OFF VALVE TO FAUCET.

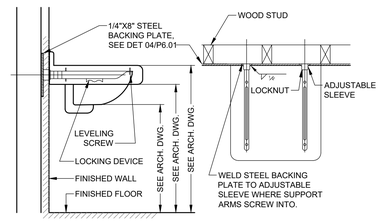
INSTANTANEOUS WATER HEATER FOR BACK TO BACK FIXTURES 09
N.T.S



1. CENTERLINE OF FIXTURE.
2. CENTERLINE OF FIXTURE SUPPORT HANGER.
3. 3/16"ø FLAT HEAD WOOD SCREW W/ MIN. 2" PENETRATION, (4) PER STUD, EVENLY SPACED, TYPICAL
4. 1/4" x 8" STEEL PLATE FOR FIXTURE WALL BACKING PLATE. (2) REQUIRED FOR MOUNTING URINAL.
5. 2x WOOD STUDS.

NOTES:
A. FOR SINGLE FIXTURE, PLATE SHALL BE ANCHORED TO A MINIMUM OF (4) VERTICAL STUDS.
B. FOR CONDITIONS AT BATTERY OF FIXTURES, MOUNT ON A CONTINUOUS STEEL PLATE. EXTEND PLATE (2) STUDS BEYOND CENTER OF END FIXTURE.
C. NOTCH STUDS 1/4" AT NON-STRUCTURAL FURRED WALLS. MOUNT PLATE TO FACE OF STUDS AND MODIFY FINISH MATERIAL FOR FLUSH FINISH AT OTHER LOCATIONS.

FIXTURE SUPPORT BACKING PLATE 04
N.T.S



LAVATORY SUPPORT 05
N.T.S

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

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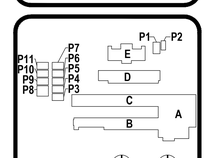
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GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER	
230216	
DATE	04/12/2024
DRAWN BY:	CHKED BY:

REVISIONS

#	DESCRIPTION	DATE

PLUMBING DETAILS

This document is for plan review only

P6.01

ELECTRICAL NOTES

EQUIPMENT ANCHORAGE NOTES

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRIC, 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:

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

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

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, SECTION 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

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

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

MP☐ MD☐ PP☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #).

LIST OF APPLICABLE CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 1 & 2

2022 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3

2022 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6

2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11

2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
WITH CA AMENDMENTS

DEVICE LOCATION NOTE

THE LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATIONS. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN, UNLESS OTHERWISE NOTED. ELECTRICAL DEVICES SHALL BE MOUNTED PER "ACCESSIBLE DEVICE MOUNTING HEIGHT" DETAIL.

COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT SUPPLY POWER AND MAKE CONNECTION TO MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS INDICATED ON THE SINGLE LINE DIAGRAM, ELECTRICAL DRAWINGS, AND DRAWINGS OF OTHER TRADES. REVIEW THE DRAWINGS OF OTHER TRADES FOR CONTROL DIAGRAMS, SIZE AND LOCATION OF EQUIPMENT. DISCONNECT SWITCHES, STARTERS, WIRING, CONTROLS, AND CONDUIT FOR MECHANICAL AND PLUMBING OPERATIONS SHALL BE PROVIDED THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING MANUFACTURER'S SHOP DRAWINGS PRIOR TO ROUGHING IN ALL CONDUIT TO THIS EQUIPMENT.

UL LISTINGS NOTE

ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY.

ALL EQUIPMENT/DEVICES INSTALLED RECESSED IN FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED UL LISTED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.

STRUCTURAL NOTE

UNLESS SPECIFICALLY SHOWN ON THESE PLANS. STRUCTURAL MEMBERS SHALL NOT BE CUT. DRILLED, OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

DIAGRAMMATIC NOTE

DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE DETAILED CONDUIT ROUTING OR LENGTHS REQUIRED FOR COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS, CONTRACT DOCUMENTS AND SPECS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS ANY ELECTRICAL ARCHITECTURAL, STRUCTURAL AND/OR MECHANICAL ITEMS OR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL CONTRACT DOCUMENTS FOR DIMENSIONS.

TITLE 24 NOTES

THE FOLLOWING SHALL BE REQUIRED WHETHER OR NOT SPECIFICALLY SHOWN OR MENTIONED IN DRAWINGS AND/OR SPECIFICATIONS:

ELECTRICAL POWER DISTRIBUTION

A. SERVICE ELECTRICAL METERING
- FOR NEWLY INSTALLED ELECTRICAL SERVICE IN NEWLY CONSTRUCTED BUILDINGS, SERVICE ELECTRICAL METERING IS REQUIRED ACCORDING TO SECTION 130.5(A).
- FOR NEW OR REPLACEMENT ELECTRICAL SERVICE EQUIPMENT IN EXISTING BUILDINGS, SERVICE ELECTRICAL BUILDINGS, SERVICE ELECTRICAL METERING IS REQUIRED ACCORDING TO SECTION 141.0(B)2PI.

B. SEPARATION OF ELECTRICAL CIRCUITS FOR ELECTRICAL ENERGY MONITORING
ELECTRICAL POWER DISTRIBUTION SYSTEMS SHALL BE DESIGNED SO THAT MEASUREMENT DEVICES CAN MONITOR THE ELECTRICAL ENERGY USAGE OF LOAD TYPES ACCORDING TO TABLE 130.5-B.

C. VOLTAGE DROP
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

D. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES
IN ALL BUILDINGS, BOTH CONTROLLED AND UNCONTROLLED 120 VOLT RECEPTACLES SHALL BE PROVIDED IN OFFICE AREAS, LOBBIES, CONFERENCE ROOMS, KITCHEN AREAS IN OFFICE SPACES, AND COPY ROOMS. ADDITIONALLY, HOTEL/MOTEL GUEST ROOMS SHALL COMPLY WITH SECTION 130.5(D)4.CONTROLLED RECEPTACLES SHALL MEET THE FOLLOWING REQUIREMENTS, AS APPLICABLE:

1. INSTALL A CONTROL CAPABLE OF AUTOMATICALLY SHUTTING OFF THE CONTROLLED RECEPTACLES WHEN THE SPACE IS TYPICALLY UNOCCUPIED, EITHER AT THE RECEPTACLE OR CIRCUIT LEVEL. WHEN AN AUTOMATIC TIME SWITCH CONTROL IS INSTALLED IT SHALL INCORPORATE AN OVERRIDE CONTROL THAT ALLOWS THE CONTROLLED RECEPTACLE TO REMAIN ON FOR NO MORE THAN 2 HOURS WHEN AN OVERRIDE IS INITIATED AND AN AUTOMATIC HOLIDAY "SHUT-OFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS AND THEN RESUMES THE NORMALLY SCHEDULED OPERATION. COUNTDOWN TIMER SWITCHES SHALL NOT BE USED TO COMPLY WITH THE AUTOMATIC TIME SWITCH CONTROL REQUIREMENTS; AND
2. INSTALL AT LEAST ONE CONTROLLED RECEPTACLE WITHIN 6 FEET FROM EACH UNCONTROLLED RECEPTACLE, OR INSTALL A SPLITWIRED RECEPTACLE WITH AT LEAST ONE CONTROLLED AND ONE UNCONTROLLED RECEPTACLE. WHERE RECEPTACLES ARE INSTALLED IN MODULAR FURNITURE IN OPEN OFFICE AREAS, AT LEAST ONE CONTROLLED RECEPTACLE SHALL BE INSTALLED AT EACH WORKSTATION; AND
3. PROVIDE A PERMANENT AND DURABLE MARKING FOR CONTROLLED RECEPTACLES OR CIRCUITS TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES OR CIRCUITS.

MANDATORY INDOOR LIGHTING CONTROLS

A. MANUAL AREA CONTROLS
EACH AREA ENCLOSED BY CEILING-HEIGHT PARTITIONS SHALL PROVIDE LIGHTING CONTROLS THAT ALLOW THE LIGHTING IN THAT AREA TO BE MANUALLY TURNED ON AND OFF. THE MANUAL CONTROL SHALL:
1. BE READILY ACCESSIBLE; AND
2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.

B. MULTI-LEVEL LIGHTING CONTROLS
THE GENERAL LIGHTING OF ANY ENCLOSED AREA 100 SQUARE FEET OR LARGER WITH A CONNECTED LIGHTING LOAD THAT EXCEEDS 0.5 WATTS PER SQUARE FOOT SHALL PROVIDE MULTI-LEVEL LIGHTING CONTROLS THAT ALLOW THE LEVEL OF LIGHTING TO BE ADJUSTED UP AND DOWN. THE MULTI-LEVEL CONTROLS SHALL PROVIDE THE NUMBER OF CONTROL STEPS AND MEET THE UNIFORMITY REQUIREMENTS SPECIFIED IN TABLE 130.1-A.

C. SHUT-OFF CONTROLS
ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS ABLE TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN THE SPACE IS TYPICALLY UNOCCUPIED.
1. ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS THAT MEET THE FOLLOWING REQUIREMENTS:
   a. SHALL BE CONTROLLED WITH AN OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER CONTROL CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL OF THE LIGHTING WHEN THE SPACE IS TYPICALLY UNOCCUPIED; AND
   b. SEPARATE CONTROLS FOR THE LIGHTING ON EACH FLOOR, OTHER THAN LIGHTING IN STAIRWELLS; AND
   c. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 SQUARE FEET; AND
   d. SEPARATE CONTROLS FOR GENERAL, DISPLAY, ORNAMENTAL, AND DISPLAY CASE LIGHTING; AND
   e. FOR AUTOMATIC TIME-SWITCH CONTROLS, MAY INCLUDE A MANUAL-ON MODE.

D. AUTOMATIC DAYLIGHTING CONTROLS
THE GENERAL LIGHTING IN SKYLIT DAYLIT ZONES AND PRIMARY SIDELIT DAYLIT ZONES, AS WELL AS THE GENERAL LIGHTING IN THE COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES IN PARKING GARAGES, SHALL PROVIDE CONTROLS THAT AUTOMATICALLY ADJUST THE POWER OF THE INSTALLED LIGHTING UP AND DOWN TO KEEP THE TOTAL LIGHT LEVEL STABLE AS THE AMOUNT OF INCOMING DAYLIGHT CHANGES. FOR SKYLIGHT LOCATED IN AN ATRIUM, THE SKYLIT DAYLIT ZONE DEFINITION SHALL APPLY TO THE FLOOR AREA DIRECTLY UNDER THE ATRIUM AND THE TOP FLOOR AREA DIRECTLY ADJACENT TO THE ATRIUM.

CONTROLS FOR OUTDOOR LIGHTING
OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS, AND THE CONTROLS FOR OUTDOOR LIGHTING SHALL MEET THE FOLLOWING FUNCTIONAL REQUIREMENTS:

A. DAYLIGHT AVAILABILITY
ALL INSTALLED OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTO CONTROL, ASTRONOMICAL TIME-SWITCH CONTROL, OR OTHER CONTROL CAPABLE OF AUTOMATICALLY SHUTTING OFF THE OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE.

B. AUTOMATIC SCHEDULING CONTROLS
1. AUTOMATIC SCHEDULING CONTROLS SHALL BE CAPABLE OF REDUCING THE OUTDOOR LIGHTING POWER BY AT LEAST 50 PERCENT AND NO MORE THAN 90 PERCENT, AND SEPARATELY CAPABLE OF TURNING THE LIGHTING OFF, DURING SCHEDULED UNOCCUPIED PERIODS.
2. AUTOMATIC SCHEDULING CONTROLS SHALL ALLOW SCHEDULING OF A MINIMUM OF TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS, AND MAY INCLUDE AN OVERRIDE FUNCTION THAT TURNS LIGHTING ON DURING ITS SCHEDULED DIM OR OFF STATE FOR NO MORE THAN TWO HOURS WHEN AN OVERRIDE IS INITIATED.
3. AUTOMATIC SCHEDULING CONTROLS SHALL BE INSTALLED FOR ALL OUTDOOR LIGHTING, AND MAY BE INSTALLED IN COMBINATION WITH MOTION SENSING CONTROLS OR OTHER OUTDOOR LIGHTING CONTROLS.

C. MOTION SENSING CONTROLS
1. MOTION SENSING CONTROLS SHALL BE CAPABLE OF REDUCING THE OUTDOOR LIGHTING POWER OF EACH CONTROLLED LUMINAIRE BY AT LEAST 50 PERCENT AND NO MORE THAN 90 PERCENT, AND SEPARATELY CAPABLE OF TURNING THE LUMINAIRE OFF, DURING UNOCCUPIED PERIODS.
2. MOTION SENSING CONTROLS SHALL BE CAPABLE OF REDUCING THE LIGHTING TO ITS DIM OR OFF STATE NO LONGER THAN 15 MINUTES AFTER THE AREA HAS BEEN VACATED, AND OF RETURNING THE LIGHTING TO ITS ON STATE WHEN THE AREA BECOMES OCCUPIED.
3. NO MORE THAN 1,500 WATTS OF LIGHTING POWER SHALL BE CONTROLLED BY A SINGLE SENSOR.
4. MOTION SENSING CONTROLS SHALL BE INSTALLED FOR THE FOLLOWING LUMINAIRES, AND MAY BE INSTALLED FOR OTHER OUTDOOR LIGHTING AND IN COMBINATION WITH OTHER OUTDOOR LIGHTING CONTROLS:
   a. OUTDOOR LUMINAIRES OTHER THAN BUILDING FAÇADE, ORNAMENTAL HARDSCAPE, OUTDOOR DINING, OR OUTDOOR SALES FRONTAGE LIGHTING, WHERE THE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE GRADE; AND,
   b. OUTDOOR WALL MOUNTED LUMINAIRES INSTALLED FOR BUILDING FAÇADE, ORNAMENTAL HARDSCAPE OR OUTDOOR DINING LIGHTING THAT HAVE A BILATERALLY SYMMETRIC DISTRIBUTION AS DESCRIBED IN THE IES HANDBOOK (TYPICALLY REFERRED TO AS "WALL PACKS") MOUNTED 24 FEET ABOVE GRADE OR LOWER.

EXCEPTION 1 TO SECTION 130.2(c)3: LUMINAIRES WITH A MAXIMUM RATED WATTAGE OF 40 WATTS EACH ARE NOT REQUIRED TO HAVE MOTION SENSING CONTROLS.

GENERAL NOTES

1. UNLESS SPECIFICALLY INDICATED ON THE ELECTRICAL DRAWINGS, OUTLETS LOCATED AT COUNTERS AND CABINETS SHALL BE MOUNTED AS SHOWN ON ARCHITECTURAL DETAILS AND ELEVATIONS, OR AS DIRECTED BY ARCHITECT.
2. COORDINATE MOUNTING HEIGHTS AND DETAILS OF ALL OUTLETS (POWER, SIGNAL, ETC.) WITH ARCHITECTURAL CASEWORK DRAWINGS PRIOR TO DIVISION 26 ROUGH-IN. PROVIDE COORDINATION DRAWINGS IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS WHERE CONFLICTS EXIST. OBTAIN APPROVAL FROM ARCHITECT BEFORE ELECTRICAL ROUGH-IN WHEN CONFLICTS ARISE.
3. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT.
4. CIRCUITING
   A. BRANCH CIRCUITING IS SCHEMATIC IN NATURE AND IS INTENDED TO INDICATE CIRCUIT LOADING AND CONTROL, NOT METHODS OF INSTALLATION. REFER TO SPECIFICATIONS FOR METHODS OF INSTALLATION AND MATERIALS, INCLUDING WHETHER OR NOT BX IS ALLOWED AND WHETHER "THROUGH-FIXTURE" OR "OCTOPUS (EMT WITH FLEXIBLE WHIPS)" TYPE LIGHTING BRANCH CIRCUITING IS REQUIRED.
   B. WHERE WIRE SIZE AND CONDUIT SIZE IS NOT INDICATED ON THE DRAWINGS AND/OR PANEL SCHEDULES, REFER TO SPECIFICATIONS FOR MINIMUM SIZE REQUIRED.
   C. BRANCH CIRCUITS ON THE DRAWINGS ARE GENERALLY NOT SHOWN GROUPED IN SINGLE RACEWAYS. HOWEVER, GROUPING IS ALLOWED UNDER CERTAIN CONDITIONS. REFER TO DIVISION 26 SPECIFICATIONS UNDER SECTION ENTITLED "ELECTRICAL WIRING" FOR REQUIREMENTS.
   D. THE DRAWINGS GENERALLY INDICATE QUANTITY OF CONDUCTORS ON BRANCH CIRCUIT HOME RUNS ONLY. ELSEWHERE WITHIN CIRCUITS, PROVIDE QUANTITY OF CONDUCTORS AS NEEDED TO ACCOMPLISH CIRCUITING AND SWITCHING REQUIREMENTS SHOWN.
5. WHEN REMOVING EXISTING ELECTRICAL WORK WHERE OTHER ITEMS REMAIN ON THE SAME CIRCUIT, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO MAINTAIN CIRCUIT CONTINUITY.
6. ALL ITEMS NOTED TO BE REMOVED ARE TO REMAIN THE PROPERTY OF THE OWNER; HOWEVER, CONTRACTOR SHALL REMOVE FROM JOB SITE ALL MATERIAL NOT RETAINED BY OWNER.
7. FIELD VERIFY CONDITION OF, AND MODIFICATIONS AND ADDITIONS TO, ALL EXISTING ELECTRICAL FIXTURES, PANELS, WIRING, ETC.
8. CONTRACTOR SHALL FIELD VERIFY EXISTING BRANCH CIRCUIT LOADING WHEN MAKING MODIFICATIONS AND/OR ADDITIONS TO THAT CIRCUIT. IF NEW WORK WOULD OVERLOAD EXISTING CIRCUIT, CONTRACTOR SHALL LOCATE ANOTHER EXISTING CIRCUIT (THE CLOSEST), WHICH WOULD NOT BE OVERLOADED UPON ADDING NEW LOAD, AND SHALL TIE NEW LOAD INTO THAT CIRCUIT.
9. CONTRACTOR TO REFER TO ARCHITECTURAL PHASING PLANS AND HAVE A GOOD UNDERSTANDING OF SCOPE OF PROJECT PRIOR TO COMMENCEMENT OF WORK.
10. LUMINAIRE SUPPORT IN SUSPENDED CEILINGS:
   A. PROVIDE MEANS OF SUPPORT FOR LUMINAIRES PER NEC 410-16. T BAR CLIPS SHALL BE INSTALLED ON THE LUMINAIRE AND SHALL BE FIELD SECURED TO THE INVERTED CEILING TEES SO THAT THE LUMINAIRE IS SECURELY FASTENED TO THE CEILING SYSTEM FRAMING MEMBERS.
   B. CEILING TILES SHALL NOT BEAR THE WEIGHT OF LUMINAIRES. SURFACE MOUNT LUMINAIRES, RECESSED DOWNLIGHTS, LIGHT TRACK, EXIT SIGN, ETC. SHALL BE SUPPORTED BY PROPER FRAMES OR OTHER ATTACHMENT TO MAIN CEILING SYSTEM GRID OR BUILDING STRUCTURE ABOVE CEILING.
   C. LUMINAIRES SHALL BE CENTERED IN CEILING TILE.
   D. LUMINAIRE SHALL HAVE FLANGE OR TRIM RING FOR CLOSURE OF CEILING CUTOUT OR OPENING.
   E. FIRE-RATED CEILING ASSEMBLY: FOR LUMINAIRES TO BE FLUSH-MOUNTED INTO A FIRE-RATED CEILING OR SURFACE MOUNTED TO A FIRE-RAGED CEILING, INSTALL WITH INDEPENDENT, SECURE SUPPORT. RACEWAY, CABLE ASSEMBLIES, BOXES AND FITTINGS LOCATED ABOVE A FIRE-RATED FLOOR/CEILING OR ROOF CEILING ASSEMBLY SHALL NOT BE SECURED TO, OR SUPPORTED BY, THE CEILING ASSEMBLY INCLUDING THE CEILING SUPPORT WIRES. PROVIDE AN INDEPENDENT MEANS OF SECURE SUPPORT. INDEPENDENT SUPPORT WIRES SHALL BE DISTINGUISHABLE BY COLOR, TAGGING, OR OTHER EFFECTIVE MEANS FROM THOSE THAT ARE PART OF THE FIRE-RATED DESIGN.
11. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING UNDERGROUND PIPING, WIRING OR OTHER FACILITIES PRIOR TO TRENCHING, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY INSTALLATION OF NEW WORK.
12. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION, CEC, ALL STATE AND LOCAL CODES AND AMENDMENT.

ELECTRICAL SYMBOL LEGEND

REMODEL

(E)	EQUIPMENT WITH "E" ADJACENT IS EXISTING TO REMAIN.
(R)	EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.
(RR)	EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.
(ER)	EQUIPMENT WITH "ER" ADJACENT IS RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.
	NO TAG INDICATES NEW EQUIPMENT.
(E) PNL-CKT	CIRCUIT DESIGNATION WITH PREFIX "(E)" DENOTES EXISTING CIRCUIT AND EQUIPMENT IS TO REMAIN.

DIAGRAM

- BREAKER, LOW VOLTAGE
- FUSE
- DISTRIBUTION TRANSFORMER
- CPT CONTROL POWER TRANSFORMER
- DRAW-OUT TYPE EQUIPMENT
- 52 MEDIUM VOLTAGE VACUUM CIRCUIT BREAKER
- SWITCH, POWER
- M METER
- BATTERY BANK
- CURRENT TRANSFORMER

EQUIPMENT

- +42" A NOTATION INDICATING THE MOUNTING HEIGHT OF A DEVICE AS MEASURED FROM FINISHED FLOOR OR GRADE TO CENTER LINE OF DEVICE
- MOTOR
- DISCONNECT SWITCH. FRAME SIZE/FUSE SIZE/POLES AS INDICATED, "NF" INDICATES NON-FUSIBLE. NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED. PROVIDE FUSED BUSWAY PLUG WHEN SWITCH IS INDICATED ON BUSWAY. ALL DISCONNECT SWITCHES SHALL BE 30/NF/3 UNLESS OTHERWISE NOTED
- SINGLE CIRCUIT BREAKER IN INDIVIDUAL ENCLOSURE
- MAGNETIC MOTOR CONTROLLER. NUMBER INDICATES NEMA SIZE. STARTER NEMA SIZE SHALL BE "NEMA 1" UNLESS OTHERWISE NOTED
- COMBINATION DISCONNECT SWITCH / MOTOR CONTROLLER
- CONTACTOR
- PANELBOARD
- SWITCHBOARD / DP
- T TRANSFORMER
- GROUNDING CONNECTION TO GROUNDING ELECTRODE AS DEFINED IN NEC ARTICLE 250
- B BELL. "WP" INDICATED OUTDOOR RATED

TELEPHONE/DATA

- FLUSH FLOOR TELEPHONE OUTLET WITH CARPET FLANGE WHERE APPLICABLE
- WALL COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS
- FLUSH FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE
- SURFACE FLOOR COMMUNICATIONS OR DATA OUTLET. REFER TO 'TS' SERIES SHEETS FOR EXACT BOX / CONDUIT REQUIREMENTS. PROVIDE CARPET FLANGE WHERE APPLICABLE

LEGEND NOTES

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. DASHED ELECTRICAL EQUIPMENT GENERALLY INDICATES EXISTING EQUIPMENT.
3. LONG-SHORT-SHORT-LONG DASHING GENERALLY INDICATES MATCH LINE OR DEFINES AREA FOR SPECIAL NOTE.

CIRCUIT RELATED

- LIGHTING OR POWER CIRCUIT(S). ARROW INDICATES HOME RUN, LONGER TICK(S) INDICATE NEUTRAL WIRE(S), SHORTER STRAIGHT TICK(S) INDICATE PHASE WIRE(S), SLANTED SHORTER TICK(S) INDICATE SWITCH LEG(S), DOT(S) INDICATE GROUNDING CONDUCTOR(S), DASHED WIRING (LONG-SHORT-LONG DASHES) INDICATES WIRING BELOW SLAB OR GRADE, DASHED WIRING (SERIES OF SHORT DASHES) INDICATES EXISTING WIRING, SLASH THROUGH ARROW INDICATES PARTIAL CIRCUIT, "D" ON HOMERUN ARROW INDICATES DEDICATED CIRCUIT: PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR FOR ENTIRE LENGTH OF CIRCUIT FROM PANEL TO OUTLET; COUNT EACH NEUTRAL AS CURRENT-CARRYING AND GROUP A MAXIMUM OF SIX THHN/THWN CONDUCTORS IN A SINGLE RACEWAY; GROUNDING CONDUCTOR IS NOT COUNTED.

  NOTE: HOMERUN INDICATES INSTALLATION OF NEW WIRE AND CONDUIT (#12 WIRE, 3/4"C, UNLESS OTHERWISE NOTED) FROM SOURCE PANELBOARD TO LOAD. HOMERUN INDICATES CONNECTION OF NEW LOADS TO EXISTING CIRCUITS IN LIEU OF PANELBOARD WHERE NOTED ON PLANS.
- J JUNCTION BOX
- GROUNDING FIXTURE

LIGHTING FIXTURES

- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, CROSS HATCHING INDICATES FIXTURE ON EMERGENCY SYSTEM, FOR SOLID CIRCLE WITHIN FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- STRIP TYPE LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE ATTACHED TO FIXTURE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- LED LIGHTING FIXTURE. LETTER INDICATES TYPE, SMALL LETTER INDICATES SWITCH CONTROL, NUMBER INDICATES CIRCUIT, FOR SOLID CIRCLE REFERENCE APPROPRIATE CATEGORY "A" CIRCUIT RELATED SYMBOL
- DESIGNATES FIXTURE ON EMERGENCY POWER. RE: LIGHTING PLAN NOTES AND FIXTURE SCHEDULE NOTES FOR ADDITIONAL INFORMATION
- WALL OR BRACKET MOUNTED FIXTURE OR DEVICE
- EXIT LIGHT FIXTURE. LETTER INDICATES TYPE, NUMBER INDICATES CIRCUIT, NUMBER AND LOCATION OF SHADED TRIANGLE SECTIONS INDICATE NUMBER OF EXIT SIGN FACES AND DIRECTION OF EACH FACE. PROVIDE CHEVRON DIRECTIONAL INDICATORS AS SHOWN ON DRAWINGS
- OUTDOOR ARM MOUNT AREA FIXTURE. LETTER INDICATES TYPE. SINGLE OR DOUBLE ARM AS INDICATED.
- OUTDOOR PEDESTRIAN STYLE POST TOP AREA FIXTURE. LETTER INDICATES TYPE
- OUTDOOR PARKING LOT AREA FIXTURE. LETTER INDICATES TYPE. SINGLE OR DOUBLE ARM AS INDICATED.
- SPORTS LIGHTING FIXTURE.

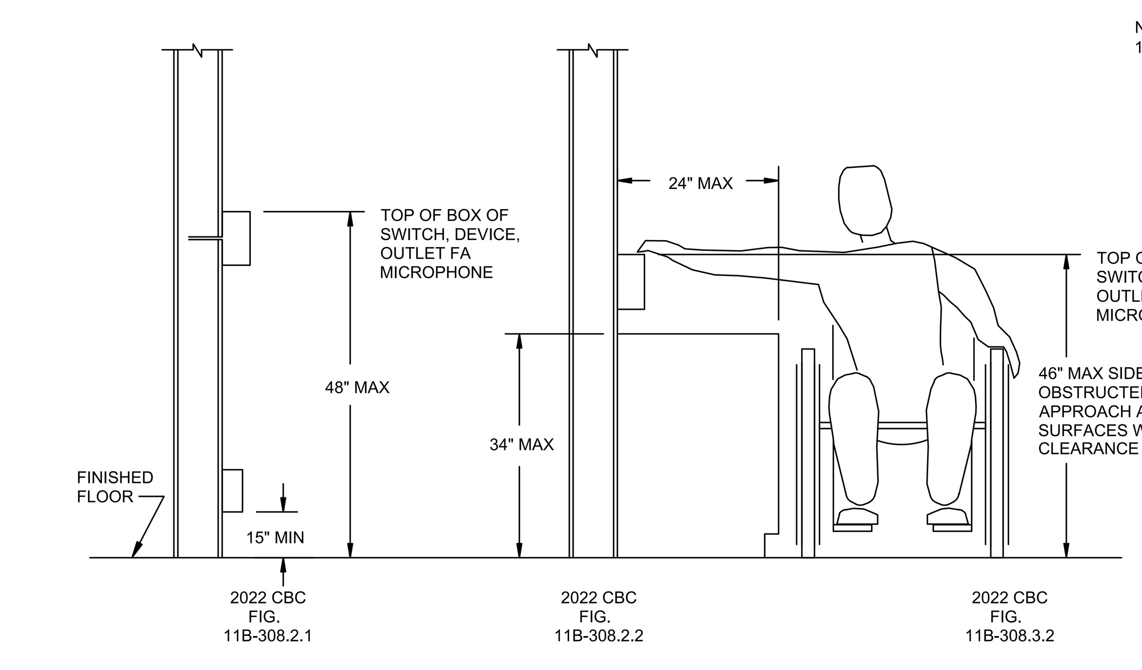
LIGHTING CONTROLS

- $ SWITCH. SMALL LETTER INDICATES FIXTURES CONTROLLED, "P" INDICATES PILOT LIGHT, "WP" INDICATES WEATHERPROOF, "K" INDICATES KEY POERATED, "MO" INDICATES SPDT MOMENTARY CONTACT, "2" INDICATES DPDT, "3" INDICATES 3-WAY, "4" INDICATES 4-WAY, "M" INDICATES MANUAL MOTOR STARTER, CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- $D WALL BOX DIMMER SWITCH. "MARK" INDICATES WATTAGE IF OTHER THAN 600, "3D" INDICATES 3-WAY DIMMER - WATTSTOPPER LMDM-101-W
- $$ MULTI-LEVEL SWITCH. CIRCUIT DESIGNATION NEXT TO SWITCH INDICATES BRANCH CIRCUIT NUMBER
- $T DIGITAL TIME SWITCH
- PC PHOTOELECTRIC CONTROL
- EMERGENCY POWER OFF (EPO)
- PUSHBUTTON
- $OC PUSH BUTTON WALL MOUNT OCCUPANCY SENSOR - WATTSTOPPER DSW-301-W
- $OC/D WALL MOUNT OCCUPANCY SENSOR WITH DIMMING CONTROLS DUAL TECHNOLOGY
- CEILING MOUNTED OCCUPANCY SENSOR - WATTSTOPPER LMPC-100
- R CEILING MOUNTED RESTROOM OCCUPANCY SENSOR - WATTSTOPPER LMDC-100
- C CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR
- HB CEILING MOUNTED HIGH CEILING OCCUPANCY SENSOR

POWER OUTLETS

- 20A-125V DUPLEX RECEPTACLE
- 20A-125V GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. "WP" INDICATES WEATHER PROOF DEVICE
- 20A-125V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. REFER TO ARCHITECT FOR EXACT HEIGHT ABOVE COUNTER
- C 20A-125V CONTROLLED DUPLEX RECEPTACLE
- 20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE
- CH 20A-125V DUPLEX TAMPER RESISTANT RECEPTACLE WITH (2) USB CHARGING PORTS
- 20A-125V FOURPLEX RECEPTACLE. SAME SYMBOLOGY AS DUPLEX RECEPTACLE
- SPECIAL PURPOSE SINGLE POWER RECEPTACLE. RATED AS INDICATED (IF NO RATING INDICATED, RECEPTACLE RATING SHALL MATCH BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE AND SHALL MEET REQUIREMENTS OF EQUIPMENT BEING CONNECTED), "C" INDICATES CLOCK OUTLET
- 20A-125V FLUSH FLOOR DUPLEX RECEPTACLE. 20A WHEN INDICATED OR IF BRANCH CIRCUIT SERVES ONLY SINGLE DUPLEX. PROVIDE CARPED FLANGE WHERE APPLICABLE
- LC1-X CIRCUIT DESIGNATION NEXT TO RECEPTACLE DEVICES INDICATES BRANCH CIRCUIT NUMBER. SEE PANEL SCHEDULES FOR INFORMATION.

MOUNTING OVER OBSTRUCTION DETAIL



NOTE:
1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

SHEET INDEX

E0.01	ELECTRICAL SHEET INDEX, LEGEND & NOTES
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E2.11	ELECTRICAL SITE AND FLOOR PLAN
E3.01	ELECTRICAL ENLARGED FLOOR PLAN - DEMO
E3.02	ELECTRICAL ENLARGED FLOOR PLAN - DEMO
E3.11	ELECTRICAL ENLARGED FLOOR PLAN
E3.12	ELECTRICAL ENLARGED FLOOR PLAN
E5.01	ELECTRICAL ONE LINE AND SCHEDULES
E6.01	ELECTRICAL DETAILS

ELECTRICAL ABBREVIATIONS

(D) OR (R)	DEMOLISH/REMOVE	HV	HIGH VOLTAGE
(E)	EXISTING	HZ	HERTZ
(ER)	EXISTING RELOCATED	IG	ISOLATED GROUND
(F)	FUTURE	JB	JUNCTION BOX
(N)	NEW	KAIC	KILO-AMPS INTERRUPTING CAPACITY
(RR)	REMOVE AND RELOCATE	KCMIL	THOUSAND CIRCULAR MILS
A	AMPERES	KV	KILOVOLT
AC	ALTERNATING CURRENT	KVA	KILOVOLT AMPERES
AF	AMP-FRAME	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	KWH	KILOWATT-HOUR
AFG	ABOVE FINISHED GRADE	M	METER
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
AIC	AMPS INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AT	AMP-TRIP	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MFR	MANUFACTURER
AL	ALUMINUM	MH	METAL HALIDE
AWG	AMERICAN WIRE GUAGE	MLO	MAIN LUGS ONLY
BAT	BATTERY	MIN	MINIMUM
BCW	BARE COPPER WIRE	MV	MEDIUM VOLTAGE
BFG	BELOW FINISH GRADE	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NIC	NOT IN CONTRACT
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	PC	PHOTOCELL
CEC	CALIFORNIA ELECTRICAL CODE	PH	PHASE
CO	CONDUIT ONLY	PT	POTENTIAL TRANSFORMER
CPT	CONTROL POWER TRANSFORMER	PV	PHOTOVOLTAIC
CT	CURRENT TRANSFORMER	QTY	QUANTITY
CU	COPPER	SCA	SHORT CIRCUIT AVAILABLE
DC	DIRECT CURRENT	SWGR	SWITCHGEAR
EF	EXHAUST FAN	SWBD	SWITCHBOARD
EGU	ENGINE GENERATOR UNIT	TSP	TWISTED SHIELDED PAIR
EM	EMERGENCY	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	UF	UNDER FLOOR
EP	EXPLOSION PROOF	UG	UNDER GROUND
FA	FIRE ALARM	UON	UNLESS OTHERWISE NOTED
FACP	FIRE ALARM CONTROL PANEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
FC	FOOT CANDLE	V	VOLT(S)
FU	FUSE	VA	VOLT-AMP
FO	FIBER OPTIC	VFD	VARIABLE FREQUENCY DRIVE
GND	GROUND	W	WATT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
GFI	GROUND FAULT INTERRUPTER	XFMR	TRANSFORMER
GFR	GROUND FAULT RELAY		
HID	HIGH INTENSITY DISCHARGE		
HOA	"HAND-OFF-AUTO" SWITCH		
HP	HORSEPOWER		
HPS	HIGH PRESSURE SODIUM		

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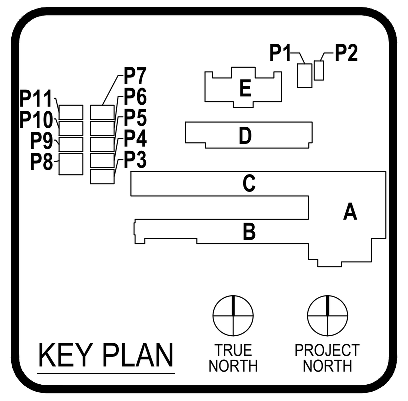
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LODI UNIFIED SCHOOL DISTRICT

KEY PLAN



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-26
ELECTRICAL
STATE OF CALIFORNIA

CLIENT		
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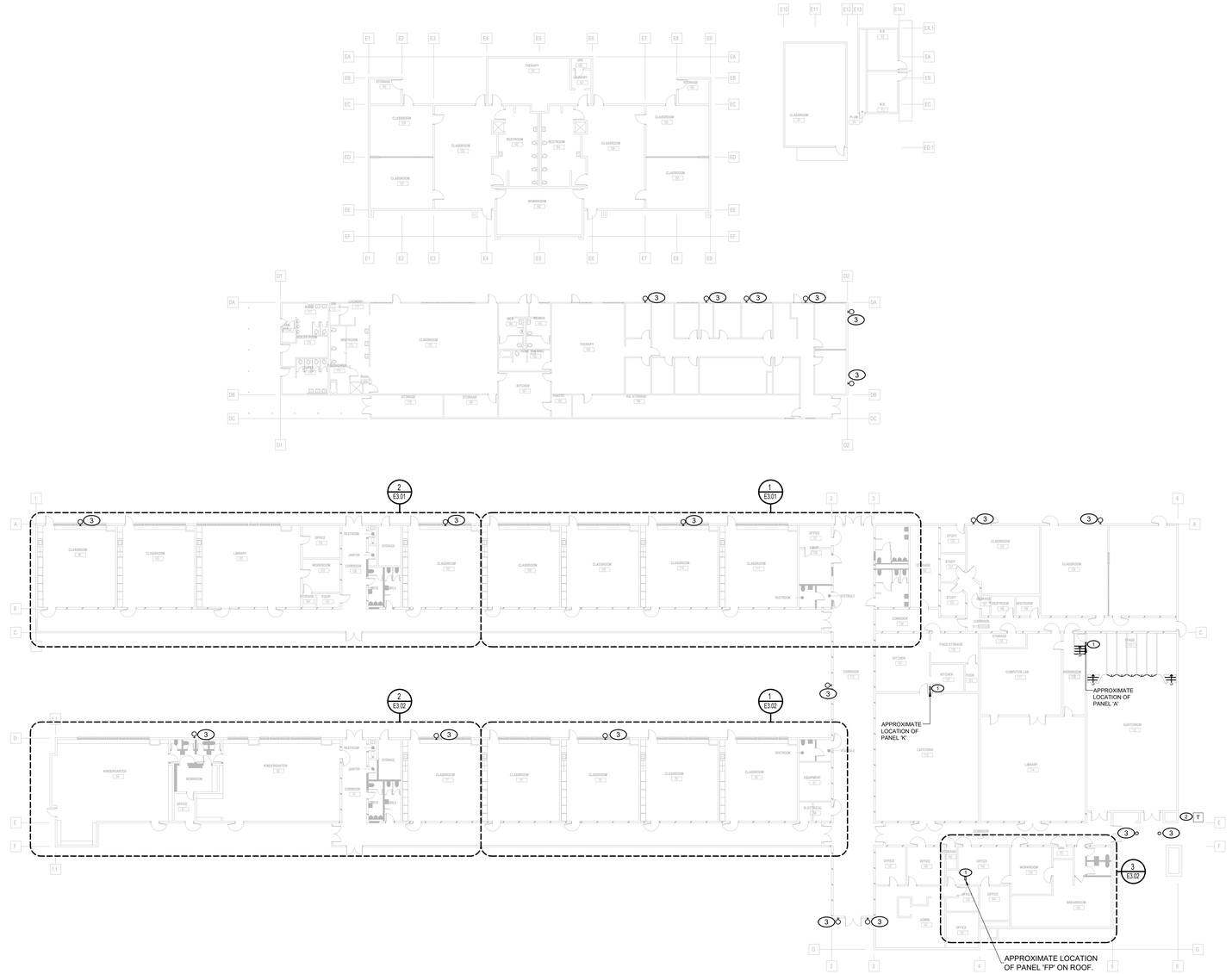
ELECTRICAL SHEET INDEX, LEGEND, NOTES

E0.01

A6.01 - EXTERIOR ELEVATIONS

KEYNOTES

1. DISCONNECT AND DEMOLISH EXISTING LOADCENTER AND CIRCUIT BREAKERS WITHIN UNIT. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS FOR RECONNECTION TO NEW LOADCENTER ONCE INSTALLED.
2. UTILITY TRANSFORMER TO REMAIN.
3. REMOVE AND DEMOLISH EXISTING LIGHT FIXTURE. PRESERVE IN PLACE EXISTING CIRCUITRY TO POWER NEW LIGHT FIXTURE ONCE INSTALLED.



1 ELECTRICAL FLOOR PLAN - DEMO
SCALE: 1" = 20'-0"

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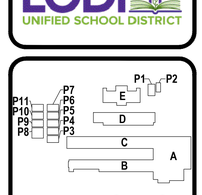
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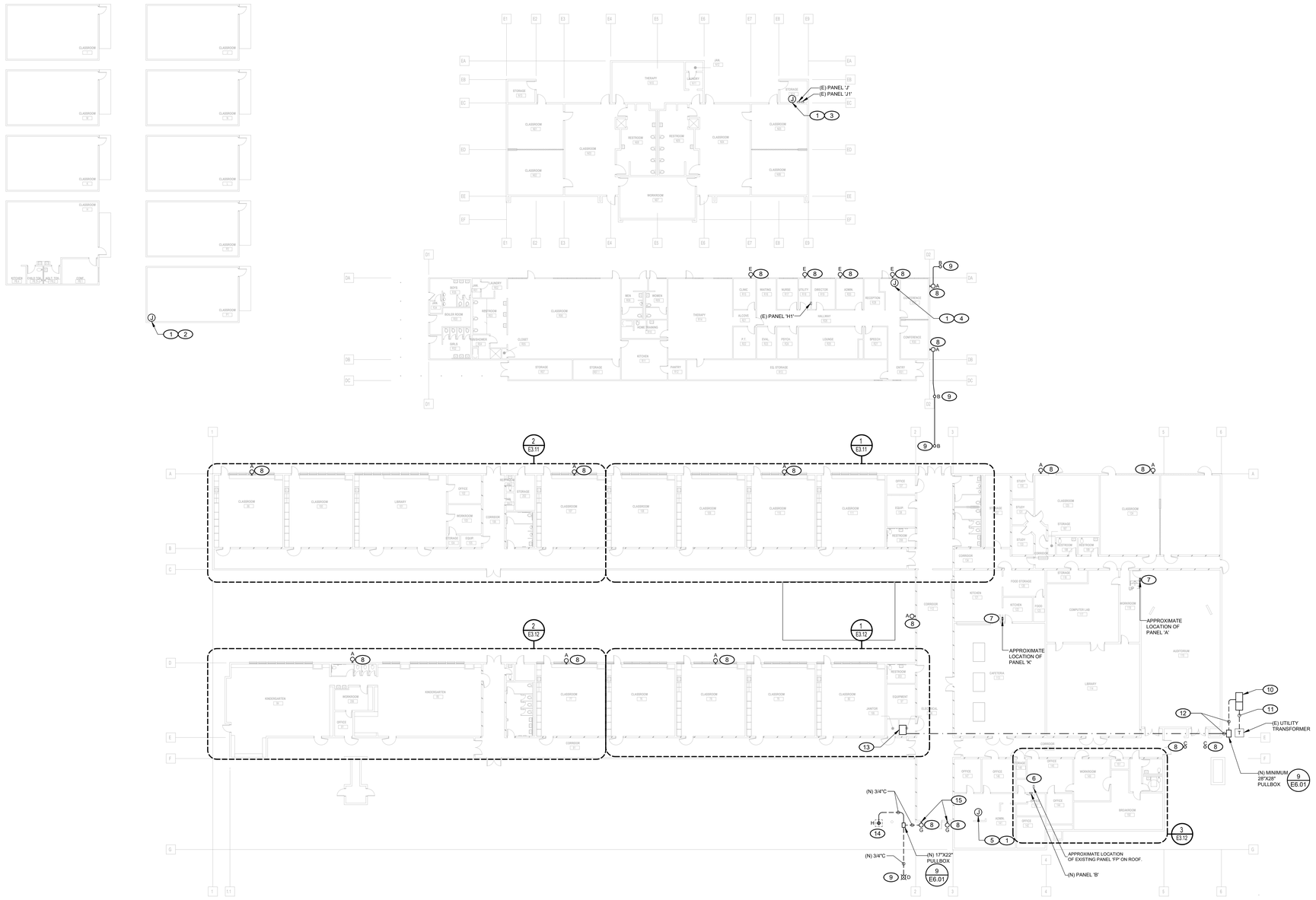
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ELECTRICAL SITE & FLOOR PLAN - DEMO

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1 ELECTRICAL FLOOR PLAN - NEW
SCALE: 1" = 20'-0"

KEYNOTES

1. PROVIDE DEDICATED 120V POWER CIRCUIT FOR FIRE ALARM NAC/AMP PANELS.
2. PROVIDE RED, LOCK ON CIRCUIT BREAKER IN AVAILABLE SPACE IN PANEL IN PORTABLE BUILDING TO SERVE POWER TO FIRE ALARM EQUIPMENT.
3. PROVIDE RED, LOCK ON CIRCUIT BREAKER IN AVAILABLE SPACE IN ADJACENT (E) PANEL 'J1' AND FEED POWER TO FIRE ALARM EQUIPMENT.
4. PROVIDE RED, LOCK ON CIRCUIT BREAKER IN AVAILABLE SPACE IN ADJACENT (E) PANEL 'H1' AND FEED POWER TO FIRE ALARM EQUIPMENT.
5. PROVIDE RED, LOCK ON CIRCUIT BREAKER IN AVAILABLE SPACE IN ADJACENT (E) PANEL 'J1' AND FEED POWER TO FIRE ALARM EQUIPMENT.
6. PROVIDE 'SQUARE D' 100A LOAD CENTER. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS TO PANEL AND BREAKER TERMINALS. PROVIDE NEW BREAKERS TO MATCH EXISTING PANEL SCHEDULE LAYOUT. SEE DETAIL 07/E6.01 FRO MOUNTING REQUIREMENTS.
7. PROVIDE 'SQUARE D' 225A LOAD CENTER. FIELD VERIFY EXISTING CIRCUIT BREAKERS IN PANEL AND PROVIDE NEW PANEL WITH SIZE AND QUANTITY OF CIRCUIT BREAKERS TO MATCH. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS TO PANEL AND BREAKER TERMINALS. SEE DETAIL 08/E6.01 FOR MOUNTING REQUIREMENTS.
8. PROVIDE NEW LIGHT FIXTURE. RE-USE EXISTING PRESERVED CIRCUITRY FROM DEMO PHASE TO POWER NEW LIGHT FIXTURE.
9. PROVIDE NEW LIGHT FIXTURE. PROVIDE POWER TO NEW FIXTURE FROM EXISTING EXTERIOR LIGHTING CIRCUIT.
10. PROVIDE 1200A 'SQUARE D QED-2' METER/MAIN SWITCHGEAR. COORDINATE WITH EXISTING UTILITY COMPANY FOR THE LOCAL PROCEDURES FOR SERVICE DISCONNECTION AND RECONNECTION. SEE DETAILS 04/E6.01, 06/E6.01 AND 7/S0.11 FOR MOUNTING OF THE SWITCHBOARD.
11. PROVIDE (4)5" CONDUITS FOR SECONDARY OF UTILITY TRANSFORMER TO METER SECTION OF (N) SWITCHGEAR. COORDINATE WITH LOCAL UTILITY ALL UTILITY SIDE CONDUIT TERMINATIONS AT TRANSFORMER.
12. CAPTURE EXISTING (3)3-1/2"C AT BUILDING AND EXTEND TO NEW 24"X36" PULLBOX AND CUSTOMER SECTION OF NEW SWITCHGEAR. SEE SINGLE LINE SHEET 'E5.01' FOR FEEDER CONDUIT AND CONDUCTOR INFORMATION.
13. PROVIDE 1200A 'SQUARE D QED-2' SWITCHBOARD. RECONNECT EXISTING FEEDER AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS EXTENDED FROM EXISTING SWITCHGEAR LOCATION. SEE DETAILS 04/E6.01, 06/E6.01 AND 7/S0.11 FOR MOUNTING OF THE SWITCHBOARD.
14. PROVIDE IN-GRADE MOUNTED FLOOD LIGHT FOR FLAG POLE. INSTALL PER MANUFACTURERS SPECIFICATIONS. COORDINATE WITH ARCHITECTURAL FOR CONCRETE PAD SPECIFICATIONS.
15. PROVIDE STEEL MOUNTING PLATE TO COVER OLD LIGHT FIXTURE INLET AND INSTALL NEW LIGHT FIXTURE.

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P1 P2 P7 P6 P5 P4 P3 P11 P10 P9 P8 E D C B A
KEY PLAN
TRUE NORTH
PROJECT NORTH

REGISTERED PROFESSIONAL ENGINEER
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Exp. 3-31-26
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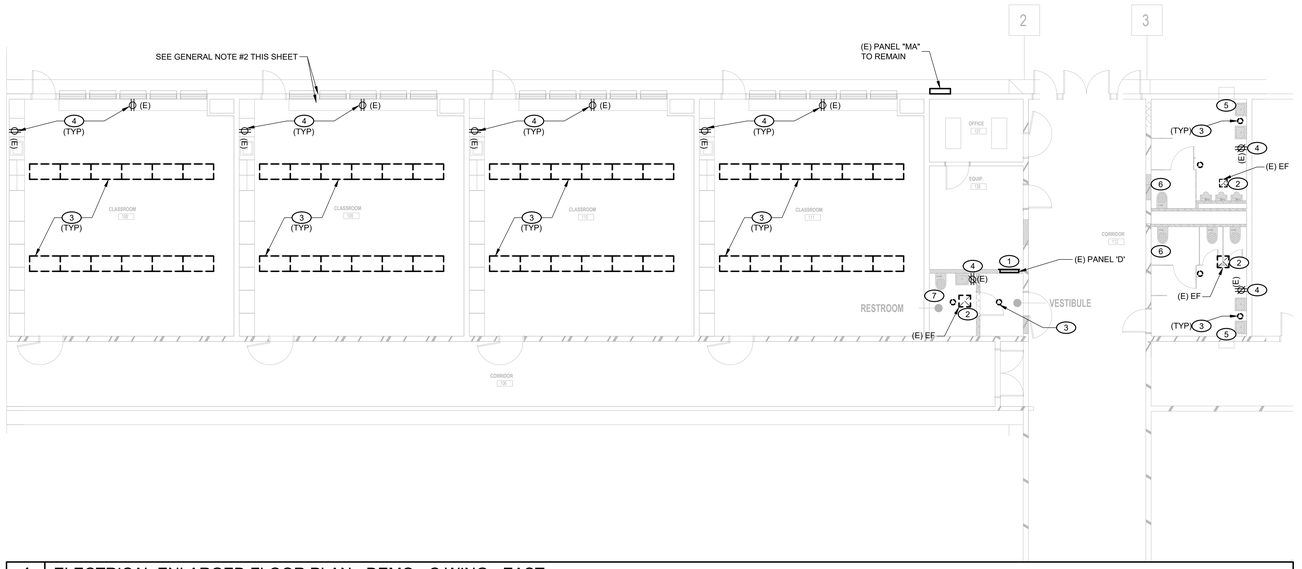
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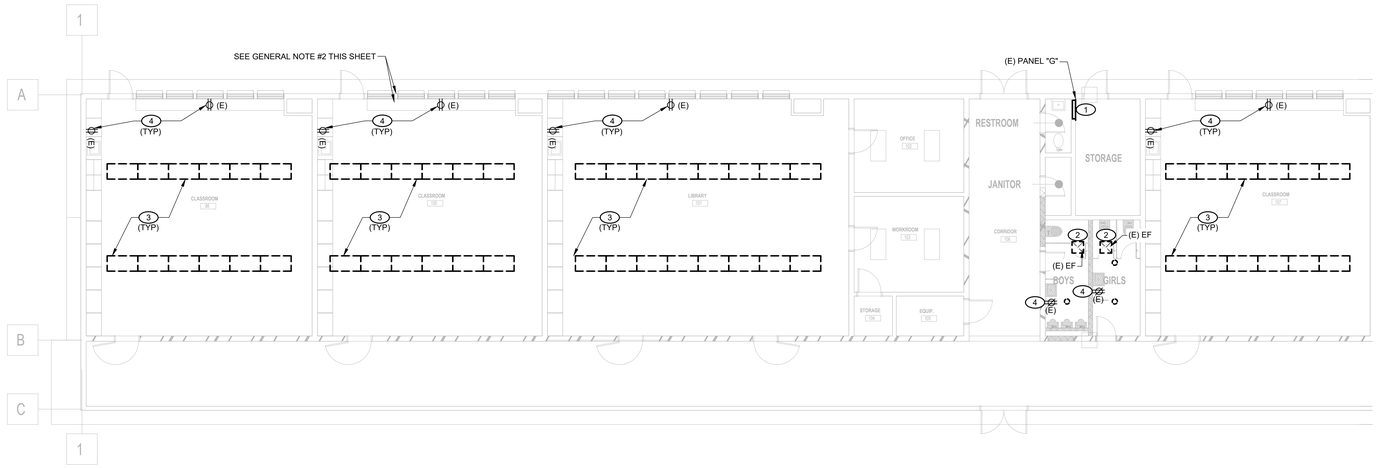
ELECTRICAL SITE & FLOOR PLAN

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E2.11



1 ELECTRICAL ENLARGED FLOOR PLAN - DEMO - C WING - EAST
SCALE: 1/8" = 1'-0"



2 ELECTRICAL ENLARGED FLOOR PLAN - DEMO- C WING - WEST
SCALE: 1/8" = 1'-0"

KEYNOTES

1. DISCONNECT AND DEMOLISH EXISTING LOADCENTER AND CIRCUIT BREAKERS WITHIN UNIT. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS FOR RECONNECTION TO NEW LOADCENTER ONCE INSTALLED.
2. EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO UNIT. PRESERVE IN PLACE THE UNIT'S BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO BE REUSED FOR CONNECTION TO NEW EXHAUST UNIT ONCE INSTALLED.
3. DISCONNECT AND DEMOLISH EXISTING LIGHT FIXTURES. PRESERVE IN PLACE THE SWITCH LEG AND BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO BE REUSED FOR CONNECTION TO NEW HIGH EFFICIENCY LED LIGHT FIXTURES ONCE INSTALLED.
4. DISCONNECT AND DEMOLISH EXISTING POWER RECEPTACLES IN CLASSROOM/BATHROOM. PRESERVE IN PLACE THE BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO BE REUSED FOR CONNECTION TO NEW POWER RECEPTACLES ONCE INSTALLED. SEE ALSO GENERAL NOTE #1 THIS SHEET.
5. EXISTING WATER HEATER TO BE DEMOLISHED. DISCONNECT AND DEMOLISH EXISTING CIRCUITRY BACK TO SOURCE PANEL AND ABANDON IN PLACE EXISTING RACEWAYS BEHIND WALLS OR ABOVE CEILING.
6. EXISTING SPACE HEATER TO BE DEMOLISHED. DISCONNECT AND DEMOLISH EXISTING CIRCUITRY BACK TO SOURCE PANEL AND ABANDON IN PLACE EXISTING RACEWAYS BEHIND WALLS OR ABOVE CEILING.
7. EXISTING SPACE HEATER TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO UNIT. PRESERVE IN PLACE THE UNIT'S BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO BE REUSED FOR CONNECTION TO NEW UNIT ONCE INSTALLED.

GENERAL NOTES

1. EXISTING POWER RECEPTACLE QUANTITY AND LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT ACCURATELY REFLECT ONSITE CONDITIONS. KEYNOTES SHALL APPLY TO ALL EXISTING POWER RECEPTACLES WITHIN CLASSROOMS/BATHROOMS ONSITE.
2. FROM AREAS WITHIN THE SCOPE OF WORK - REMOVE AND DEMOLISH FROM BOTH THE EXTERIOR AND THE INTERIOR OF THE BUILDING, ALL EXPOSED AND UNUSED EXISTING COAXIAL CABLE.

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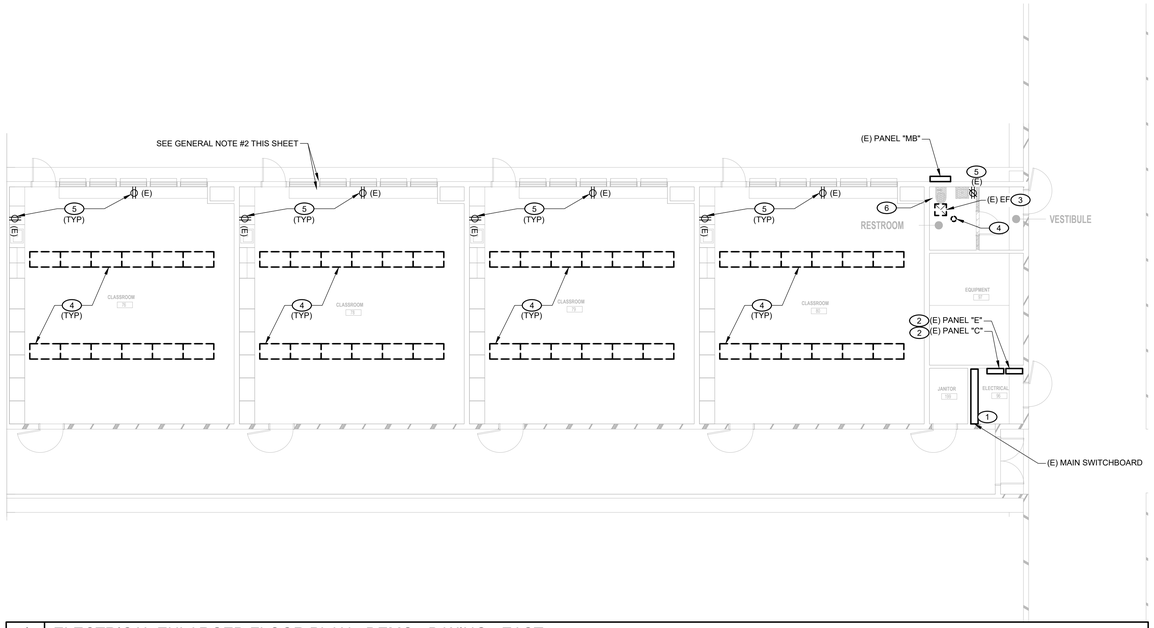
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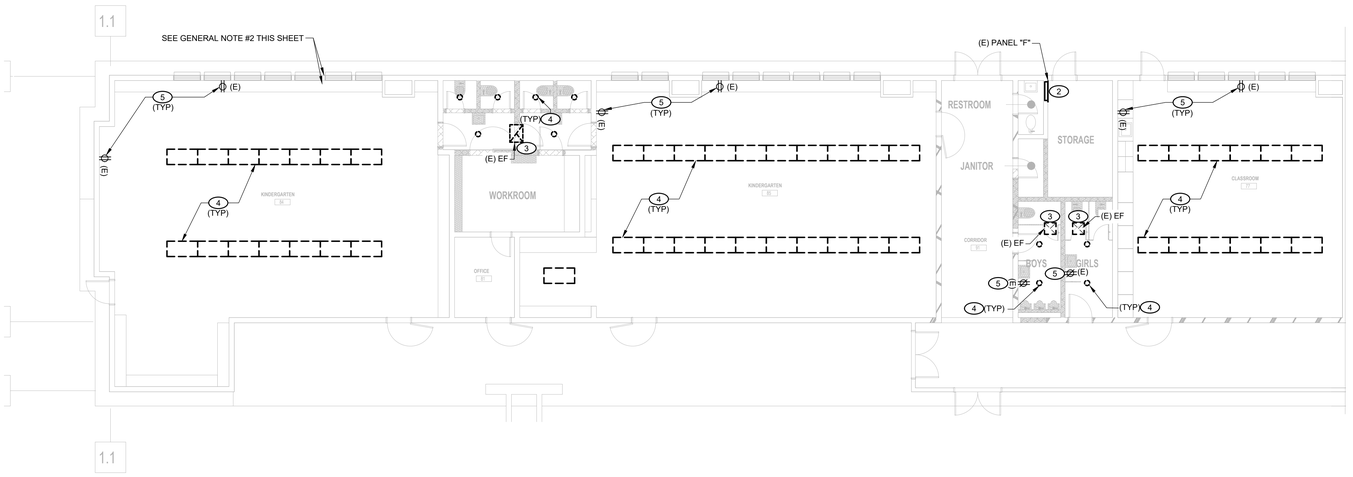
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ELECTRICAL ENLARGED FLOOR PLAN - DEMO

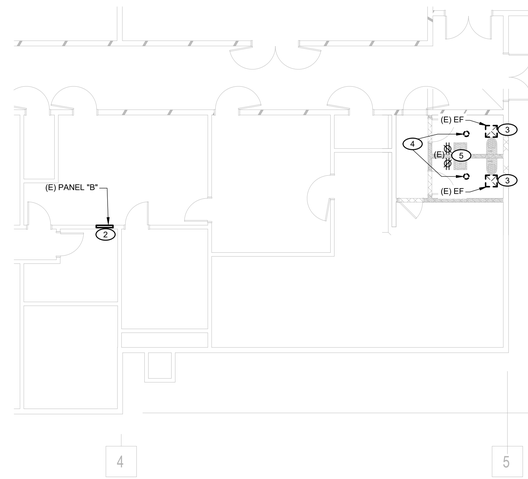
E3.01



1 ELECTRICAL ENLARGED FLOOR PLAN - DEMO - B WING - EAST
SCALE: 1/8" = 1'-0"



2 ELECTRICAL ENLARGED FLOOR PLAN - DEMO - B WING - WEST
SCALE: 1/8" = 1'-0"



3 ELECTRICAL ENLARGED FLOOR PLAN - DEMO - A WING
SCALE: 1/8" = 1'-0"

KEYNOTES

1. DISCONNECT AND REMOVE EXISTING "TRUMBLE" 1200A MAIN SWITCHGEAR AND CIRCUIT BREAKERS AND FUSES WITHIN UNIT. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS FOR SPLICING AND RECONNECTION TO NEW FEEDER RACEWAYS AND CONDUCTORS ROUTED TO NEW SWITCHGEAR ONCE INSTALLED. COORDINATE WITH EXISTING UTILITY COMPANY THE LOCAL PROCEDURES FOR SERVICE DISCONNECTION AND RECONNECTION. VERIFY WITH THE DISTRICT THE MEANS OF DISPOSAL OF SWITCHGEAR.
2. DISCONNECT AND DEMOLISH EXISTING LOADCENTER AND CIRCUIT BREAKERS WITHIN UNIT. PRESERVE EXISTING FEEDER AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS FOR RECONNECTION TO NEW LOADCENTER ONCE INSTALLED.
3. EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO UNIT. PRESERVE IN PLACE THE UNIT'S BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO BE REUSED FOR CONNECTION TO NEW EXHAUST UNIT ONCE INSTALLED.
4. DISCONNECT AND DEMOLISH EXISTING LIGHT FIXTURES. PRESERVE IN PLACE THE SWITCH LEG AND BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO BE REUSED FOR CONNECTION TO NEW HIGH EFFICIENCY LED LIGHT FIXTURES ONCE INSTALLED.
5. DISCONNECT AND DEMOLISH EXISTING POWER RECEPTACLES IN CLASSROOM/BATHROOM. PRESERVE IN PLACE THE BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO BE REUSED FOR CONNECTION TO NEW POWER RECEPTACLES ONCE INSTALLED. SEE ALSO GENERAL NOTE #1 THIS SHEET.
6. EXISTING SPACE HEATER TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO UNIT. PRESERVE IN PLACE THE UNIT'S BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO BE REUSED FOR CONNECTION TO NEW UNIT ONCE INSTALLED.

GENERAL NOTES

1. EXISTING POWER RECEPTACLE QUANTITY AND LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT ACCURATELY REFLECT ONSITE CONDITIONS. KEYNOTES SHALL APPLY TO ALL EXISTING POWER RECEPTACLES WITHIN CLASSROOMS ONSITE, REGARDLESS OF THEIR BEING REELECTED ON THESE PLANS.
2. FROM AREAS WITHIN THE SCOPE OF WORK - REMOVE AND DEMOLISH FROM BOTH THE EXTERIOR AND THE INTERIOR OF THE BUILDING, ALL EXPOSED AND UNUSED EXISTING COAXIAL CABLE.

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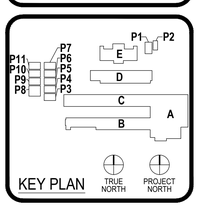
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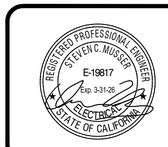
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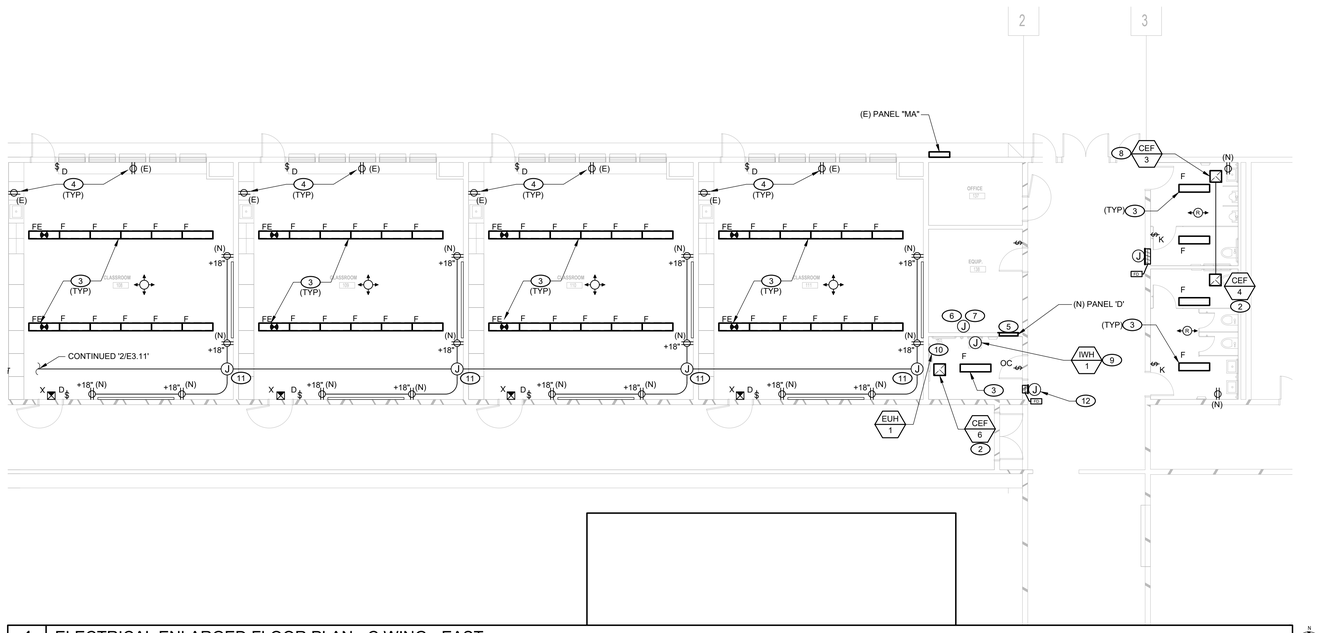
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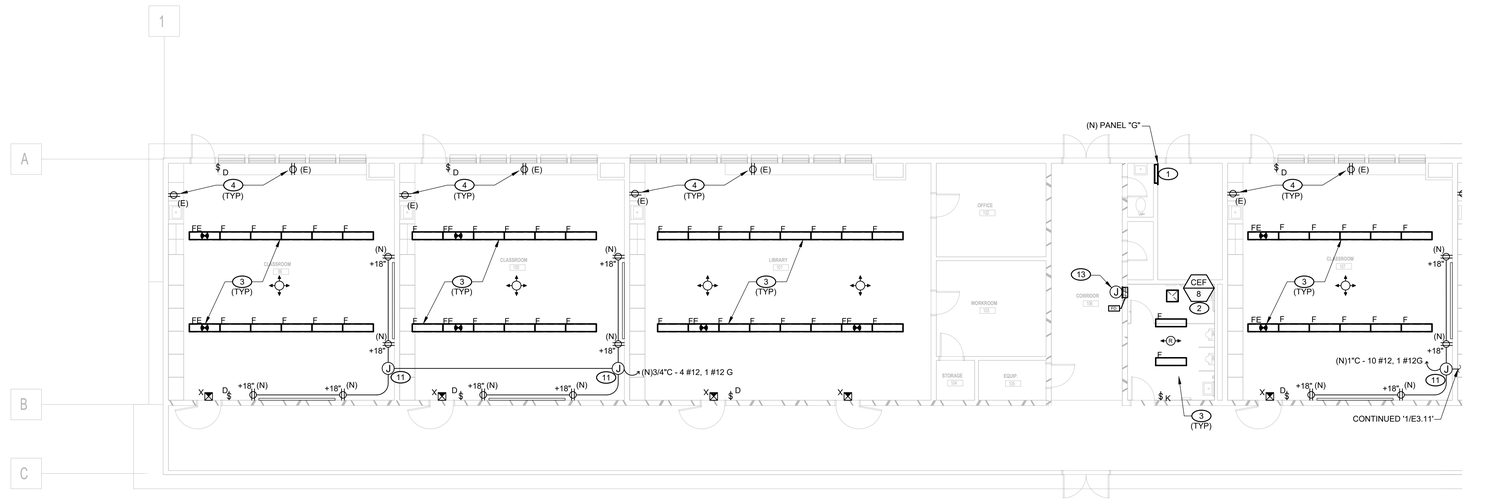
ELECTRICAL ENLARGED FLOOR PLAN - DEMO

E3.02

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1 ELECTRICAL ENLARGED FLOOR PLAN - C WING - EAST
SCALE: 1/4" = 1'-0"



2 ELECTRICAL ENLARGED FLOOR PLAN - C WING - WEST
SCALE: 1/4" = 1'-0"

KEYNOTES

1. PROVIDE 'SQUARE D' 100A LOADCENTER. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS TO PANEL AND BREAKER TERMINALS. PROVIDE NEW BREAKERS TO MATCH EXISTING PANEL SCHEDULE LAYOUT. SEE DETAIL 08/E6.01 FOR MOUNTING DETAILS.
2. PROVIDE 20A MOTOR RATED TOGGLE SWITCH AND RECONNECT EXISTING BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO NEW EXHAUST UNIT.
3. PROVIDE HIGH EFFICIENCY LED LIGHT FIXTURES PER LODI USD DESIGN SPECIFICATION GUIDELINES. RECONNECT SWITCH LEG AND BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO LIGHT FIXTURES AND SWITCHES.
4. PROVIDE NEW POWER RECEPTACLES AND COVERPLATES PER LODI USD DESIGN SPECIFICATION GUIDELINES. RECONNECT EXISTING BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO POWER RECEPTACLES. SEE ALSO GENERAL NOTE #3 THIS SHEET.
5. PROVIDE 'SQUARE D' 225A PANEL. FIELD VERIFY EXISTING CIRCUIT BREAKERS IN PANEL AND PROVIDE NEW PANEL WITH SIZE AND QUANTITY OF CIRCUIT BREAKERS TO MATCH. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS TO PANEL AND BREAKER TERMINALS. SEE DETAIL 08/E6.01 FOR MOUNTING DETAILS.
6. PROVIDE DEDICATED 120V POWER CIRCUIT FOR FIRE ALARM NAC/AMP PANELS.
7. PROVIDE RED, LOCK ON CIRCUIT BREAKER IN AVAILABLE SPACE IN (N) PANEL 'D' TO SERVE POWER TO FIRE ALARM EQUIPMENT.
8. PROVIDE 20A MOTOR RATED TOGGLE SWITCH AND EXTEND BRANCH CIRCUIT CONDUCTORS AND RACEWAYS FROM 'CEF-4' TO NEW EXHAUST UNIT.
9. PROVIDE 208V POWER TO WATER HEATER FROM EITHER AVAILABLE EXISTING OR NEW 20A/3POLE CIRCUIT BREAKER IN NEWLY INSTALLED 225A PANEL 'K'.
10. VERIFY EXISTING PRESERVED CIRCUITRY AT DEMOLISHED SPACE HEATER'S LOCATION IS RATED FOR NEWLY INSTALLED SPACE HEATER AND CONNECT IF FOUND SUFFICIENT. IF EXISTING CIRCUITRY IS NOT RATED FOR NEW UNIT, REMOVE AND REPLACE WITH RATED BRANCH CIRCUIT AND RACEWAY. PROVIDE NEW MOTOR RATED SWITCH AND 208V POWER TO NEW SPACE HEATER FROM EITHER AVAILABLE EXISTING OR NEW 30A/2POLE CIRCUIT BREAKER IN NEWLY INSTALLED 225A PANEL 'K' OR 'A'.
11. PROVIDE RACEWAY AND CONDUCTORS FROM AVAILABLE 20A/1,120V CIRCUIT FROM NEW PANEL 'G' TO POWER NEW RECEPTACLES SHOWN. PROVIDE NEW WIREMOLD RACEWAY FROM (N)JUNCTION BOX AND ROUTE TO NEW RECEPTACLES AT EITHER SIDE OF BLACKBOARDS AT ELEVATIONS SHOWN. VERIFY FINAL ROUTING OF JUNCTION BOX, WIREMOLD RACEWAYS AND RECEPTACLE LOCATIONS WITH DISTRICT PRIOR TO INSTALLATION.
12. PROVIDE AVAILABLE DEDICATED 20A/1,120V CIRCUIT FROM NEW PANEL 'D' TO POWER FIRE SMOKE DAMPER. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
13. PROVIDE AVAILABLE DEDICATED 20A/1,120V CIRCUIT FROM NEW PANEL 'G' TO POWER FIRE SMOKE DAMPER. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

GENERAL NOTES

1. SEE DETAILS 01 AND 02 ON SHEET E6.01 FOR LIGHTING CONTROL WIRING DIAGRAMS.
2. SEE DETAILS 03 AND 05 E6.01 FOR LIGHT FIXTURE MOUNTING DETAILS.
3. EXISTING POWER RECEPTACLE QUANTITY AND LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT ACCURATELY REFLECT ONSITE CONDITIONS. KEYNOTES SHALL APPLY TO ALL EXISTING DEVICES WITHIN CLASSROOMS ONSITE. RECEPTACLES INSTALLED WITHIN 6' OF A WORKING SINK ARE TO BE GFCI PROTECTED PER CEC.

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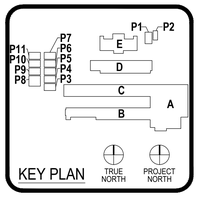
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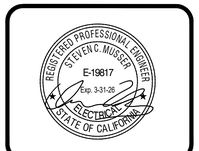
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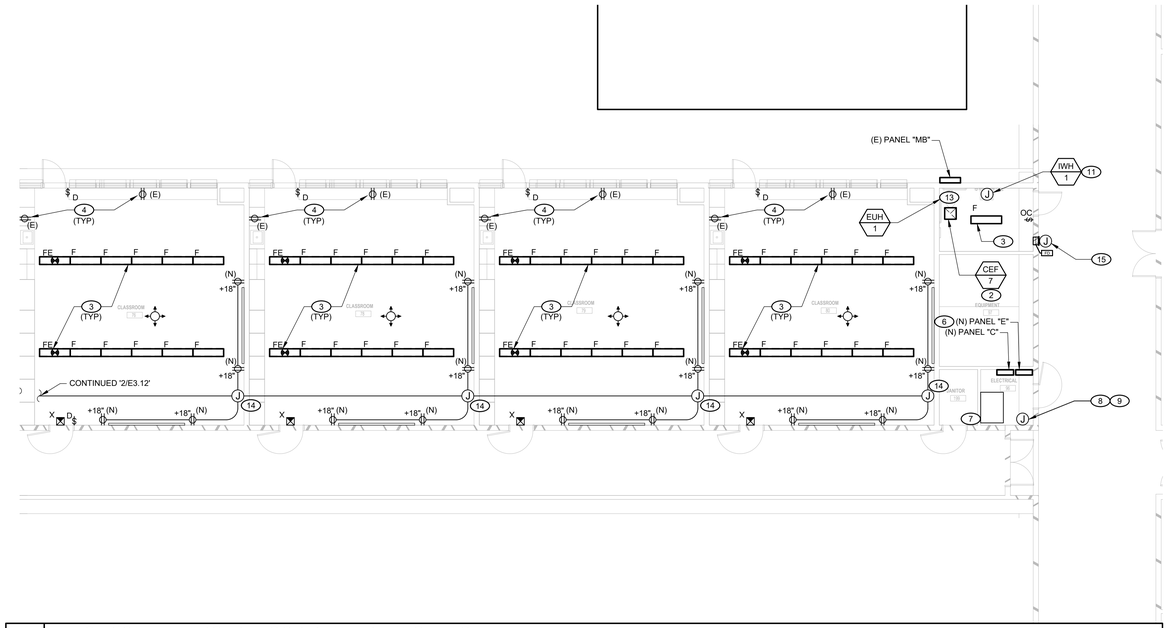
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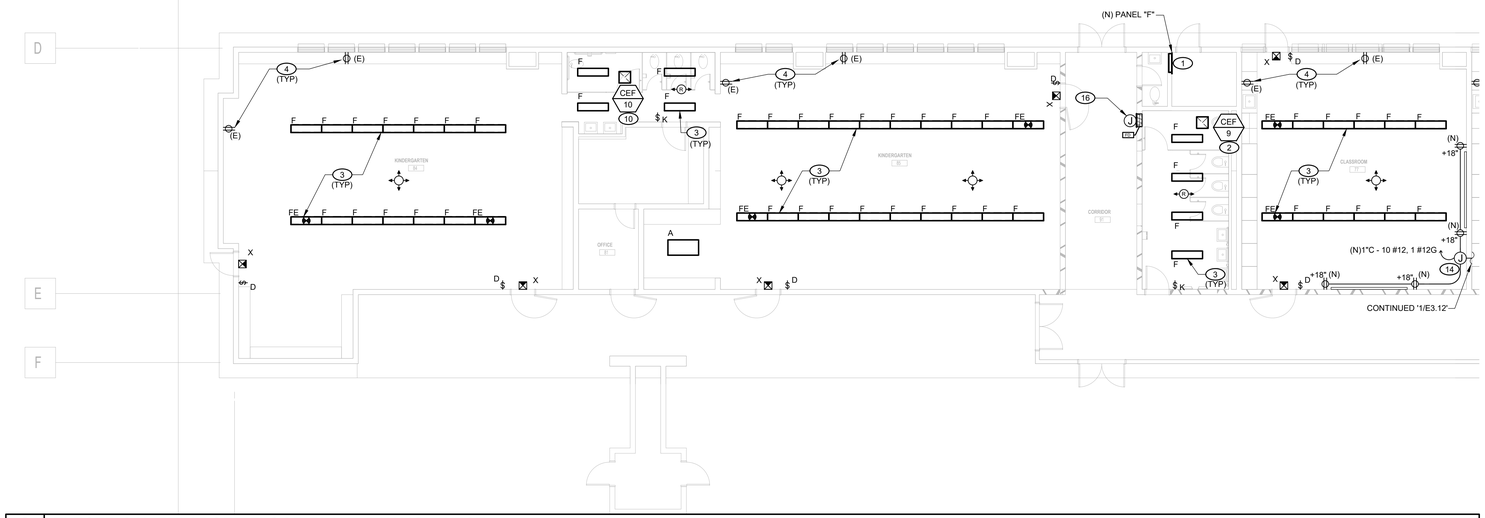
ELECTRICAL ENLARGED FLOOR PLAN

E3.11

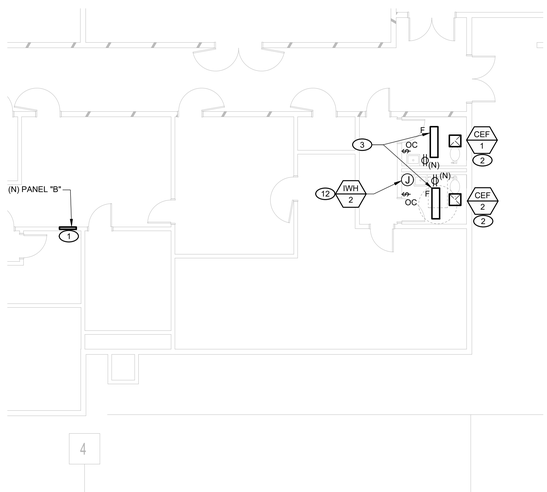
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1 ELECTRICAL ENLARGED FLOOR PLAN - B WING - EAST
SCALE: 1/8" = 1'-0"



2 ELECTRICAL ENLARGED FLOOR PLAN - B WING - WEST
SCALE: 1/8" = 1'-0"



3 ELECTRICAL ENLARGED FLOOR PLAN - A WING
SCALE: 1/8" = 1'-0"

KEYNOTES

1. PROVIDE 'SQUARE D' 100A LOADCENTER. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS TO PANEL AND BREAKER TERMINALS. PROVIDE NEW BREAKERS TO MATCH EXISTING PANEL SCHEDULE LAYOUT. SEE DETAIL 08/E6.01 FOR MOUNTING DETAILS.
2. PROVIDE 20A MOTOR RATED TOGGLE SWITCH AND RECONNECT EXISTING BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO NEW EXHAUST UNIT.
3. PROVIDE HIGH EFFICIENCY LED LIGHT FIXTURES PER LODI USD DESIGN SPECIFICATION GUIDELINES. RECONNECT SWITCH LEG AND BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO LIGHT FIXTURES AND SWITCHES.
4. PROVIDE POWER RECEPTACLES PER LODI USD DESIGN SPECIFICATION GUIDELINES. RECONNECT EXISTING BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO POWER RECEPTACLES. SEE ALSO GENERAL NOTE #3 THIS SHEET.
5. NOT USED
6. PROVIDE 'SQUARE D' 225A PANEL. FIELD VERIFY EXISTING CIRCUIT BREAKERS IN PANEL AND PROVIDE NEW PANEL WITH SIZE AND QUANTITY OF CIRCUIT BREAKERS TO MATCH. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS TO PANEL AND BREAKER TERMINALS. SEE DETAIL 07/E6.01 FOR MOUNTING DETAILS.
7. PROVIDE 1200A 'SQUARE D QED-2' SWITCHBOARD. INTERCEPT INCOMING AND OUTGOING FEEDERS FOR SWITCHBOARD AND EXTEND TO NEW SWITCHBOARD.
8. PROVIDE DEDICATED 120V POWER CIRCUIT FOR FIRE ALARM NAC/AMP PANELS.
9. PROVIDE RED, LOCK ON CIRCUIT BREAKER IN AVAILABLE SPACE IN (N) PANEL E TO SERVE POWER TO FIRE ALARM EQUIPMENT.
10. PROVIDE 20A MOTOR RATED TOGGLE SWITCH PROVIDE BRANCH CIRCUIT CONDUCTORS AND RACEWAYS TO NEW EXHAUST UNIT. PROVIDE CIRCUIT BREAKER IN AVAILABLE SPACE IN (N) PANEL F TO SERVE POWER TO EXHAUST UNIT.
11. PROVIDE 208V POWER TO WATER HEATER FROM EITHER AVAILABLE EXISTING OR NEW 20A/3POLE CIRCUIT BREAKER IN NEWLY INSTALLED 225A PANEL 'K'.
12. PROVIDE 208V POWER TO WATER HEATER FROM EITHER AVAILABLE EXISTING OR NEW 30A/3POLE CIRCUIT BREAKER IN NEWLY INSTALLED 225A PANEL 'A'.
13. VERIFY EXISTING PRESERVED CIRCUITRY AT DEMOLISHED SPACE HEATER'S LOCATION IS RATED FOR NEWLY INSTALLED SPACE HEATER AND CONNECT IF FOUND SUFFICIENT. IF EXISTING CIRCUITRY IS NOT RATED FOR NEW UNIT, REMOVE AND REPLACE WITH RATED BRANCH CIRCUIT AND RACEWAY. PROVIDE NEW MOTOR RATED SWITCH AND 208V POWER TO NEW SPACE HEATER FROM EITHER AVAILABLE EXISTING OR NEW 30A/2POLE CIRCUIT BREAKER IN NEWLY INSTALLED 225A PANEL 'K' OR 'A'.
14. PROVIDE RACEWAY AND CONDUCTORS FROM AVAILABLE 20A/1,120V CIRCUIT FROM NEW PANEL 'F' TO POWER NEW RECEPTACLES SHOWN. PROVIDE NEW WIREMOLD RACEWAY FROM (N)JUNCTION BOX AND ROUTE TO NEW RECEPTACLES AT EITHER SIDE OF BLACKBOARDS AT ELEVATIONS SHOWN. VERIFY FINAL ROUTING OF JUNCTION BOX, WIREMOLD RACEWAYS AND RECEPTACLE LOCATIONS WITH DISTRICT PRIOR TO INSTALLATION.
15. PROVIDE AVAILABLE DEDICATED 20A/1,120V CIRCUIT FROM NEW PANELS 'C' or 'E' TO POWER FIRE SMOKE DAMPER. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
16. PROVIDE AVAILABLE DEDICATED 20A/1,120V CIRCUIT FROM NEW PANEL 'F' TO POWER FIRE SMOKE DAMPER. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

GENERAL NOTES

1. SEE DETAILS 01 AND 02 ON SHEET E6.01 FOR LIGHTING CONTROL WIRING DIAGRAMS.
2. SEE DETAILS 03 AND 05 E6.01 FOR LIGHT FIXTURE MOUNTING DETAILS.
3. EXISTING POWER RECEPTACLE QUANTITY AND LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY AND MAY NOT ACCURATELY REFLECT ONSITE CONDITIONS. KEYNOTES SHALL APPLY TO ALL EXISTING DEVICES WITHIN CLASSROOMS ONSITE. RECEPTACLES INSTALLED WITHIN 6' OF A WORKING SINK ARE TO BE GFCI PROTECTED PER CEC.

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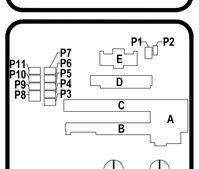
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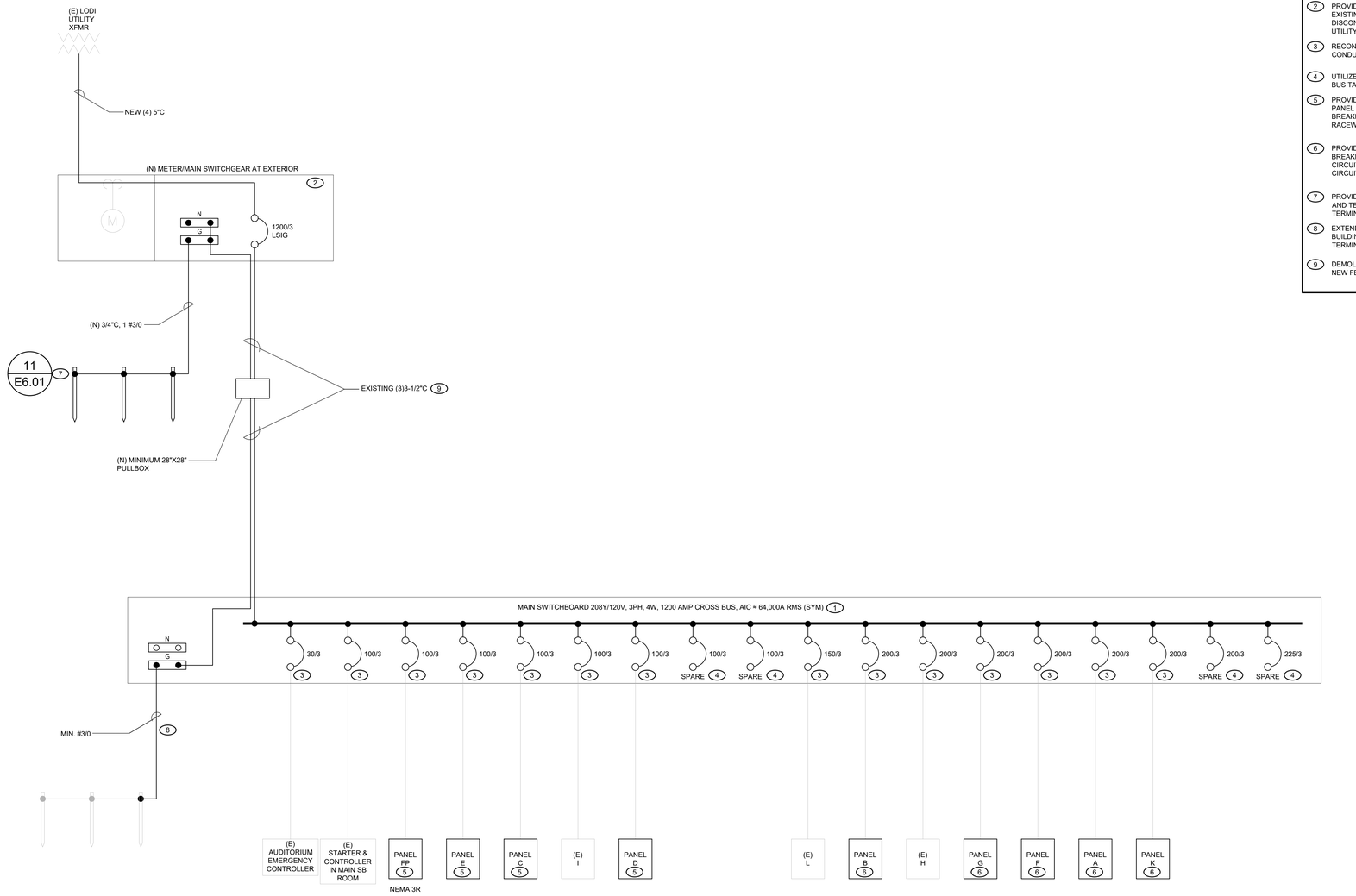
ELECTRICAL ENLARGED FLOOR PLAN

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KEYNOTES

1. PROVIDE 1200A 'SQUARE D QED-2' SWITCHBOARD AT OLD SWITCHGEAR LOCATION.
2. PROVIDE 1200A 'SQUARE D QED-2' METER/MAIN SWITCHGEAR. COORDINATE WITH EXISTING UTILITY COMPANY THE LOCAL PROCEDURES FOR SERVICE DISCONNECTION AND RECONNECTION INCLUDING RELOCATION OF EXISTING UTILITY METER INTO NEW SWITCHBOARD.
3. RECONNECT EXISTING FEEDER AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS.
4. UTILIZE SPARE BREAKERS SHOWN TO RECONNECT ANY EXISTING FEEDERS OR BUS TAPS FROM THE EXISTING SWITCHBOARD THAT ARE NOT ACCOUNTED FOR.
5. PROVIDE 'SQUARE D' 225A PANEL. FIELD VERIFY EXISTING CIRCUIT BREAKERS IN PANEL AND PROVIDE NEW PANEL WITH SIZE AND QUANTITY OF CIRCUIT BREAKERS TO MATCH. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS TO PANEL AND BREAKER TERMINALS.
6. PROVIDE 'SQUARE D' 100A LOADCENTER. FIELD VERIFY EXISTING CIRCUIT BREAKERS IN PANEL AND PROVIDE NEW PANEL WITH SIZE AND QUANTITY OF CIRCUIT BREAKERS TO MATCH. RECONNECT EXISTING FEEDERS AND BRANCH CIRCUIT RACEWAYS AND CONDUCTORS TO PANEL AND BREAKER TERMINALS.
7. PROVIDE (3) 3/4" COPPER GROUNDING ROD FOR NEW GROUNDING ELECTRODE AND TERMINATE TO NEW METER/MAIN SWITCHGEAR'S EQUIPMENT BONDING TERMINAL.
8. EXTEND THE BUILDING'S EXISTING GROUNDING ELECTRODE CONDUCTOR(S) AND BUILDING'S SYSTEM BONDING CONDUCTORS AT OLD SWITCHGEAR LOCATION AND TERMINATE TO NEW SWITCHBOARD'S EQUIPMENT BONDING TERMINAL.
9. DEMOLISH EXISTING FEEDER CONDUCTORS TO OLD SWITCHGEAR AND PROVIDE NEW FEEDER CONDUCTORS TO NEW SWITCHGEAR: (3 SETS) 4 #600KCMIL, 1 #3/0G.



1 SINGLE LINE DIAGRAM
SCALE: NTS

EXTERIOR LIGHTING FIXTURE SCHEDULE

TYPE MARK	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	WATTS	LAMP STYLE	COLOR TEMP.	MOUNTING	NOTES
A	EXTERIOR WALL PACK	LITHONIA	TWX2 LED-P2-40K-MVOLT-PE-DBLXD	32	LED	4000K	SURFACE	EXTERIOR SURFACE WALL PACK
B	EXTERIOR SURFACE LIGHT	LITHONIA	CNY LED-P1-40K-MVOLT-DDB	35	LED	4000K	SURFACE	EXTERIOR SURFACE CEILING FIXTURE
C	RECESSED DOWN LIGHT (RETROFIT)	LITHONIA	LBR6 ALO4-40K-AR-LSS-MWD-MVOLT-UGZ	25	LED	4000k	RECESSED	EXTERIOR WALKWAY RECESSED CAN FIXTURE
D	EXTERIOR LIGHT POLE	LITHONIA	RADPT LED P4 40K PATH MVOLT PT4 PE DBLXD	78.6	LED	4000K	POLE	FRONT EXTERIOR EGRESS LIGHT POLE
E	EXTERIOR WALL PACK	LITHONIA	TWX1 LED-P2-40K-MVOLT-PE-DBLXD	22	LED	4000K	SURFACE	EXTERIOR SURFACE WALL PACK
G	EXTERIOR WALL PACK	LITHONIA	TWX3 LED-P1-40K-MVOLT-PE-DBLXD	65	LED	4000K	SURFACE	EXTERIOR SURFACE WALL PACK
H	IN-GRADE GROUND WELL LIGHT	ALCON	9044-RGBW-BR	12.5	LED	4000K	IN-GRADE	IN CONCRETE PAD AT FLAG POLE

INTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	WATTS	MOUNTING	DIMMING
FE	4-FOOT LED PREMIUM WRAP	LITHONIA	FML4W 48 ALO6 SEF 840 BBU MVOLT	4000K LED	MVOLT	50	SURFACE	0-10V
F	4-FOOT LED PREMIUM WRAP	LITHONIA	FML4W 48 ALO6 SEF 840 MVOLT	4000K LED	MVOLT	50	SURFACE	0-10V
X	EXIT SIGN WITH EMERGENCY BATTERY	EVENLITE	TLP-R-2U-W-SD	-	MVOLT	1	WALL	N/A

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

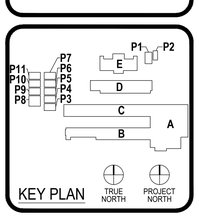
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GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT





CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/12/2024
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

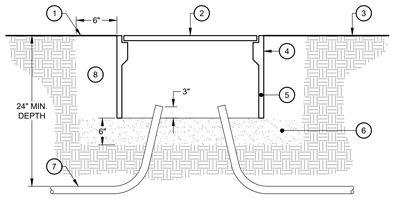
ELECTRICAL ONE LINE AND SCHEDULES

This document is for plan review only

E5.01

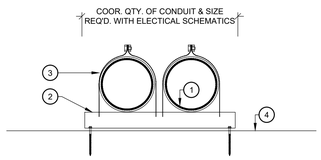
A6.01 - EXTERIOR ELEVATIONS

1. SET BOX FLUSH WITH FINISHED GRADE. WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVEMENT, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED. REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
2. TRAFFIC RATED COVER WHERE APPLICABLE, NON-TRAFFIC RATED REINFORCED CONCRETE COVER OTHERWISE. COVER MARKED OR INSCRIBED WITH INTENDED USE.
3. FINISHED GRADE.
4. REINFORCED CONCRETE PULLBOX. QTY AND SIZE AS SHOWN ON PLANS.
5. PROVIDE BOX EXTENSION RINGS AS REQUIRED.
6. CRUSHED GRAVEL DRAIN BASE BEDDING.
7. TYPICAL UNDERGROUND CONDUIT PER PLANS. DEPTH MIN. 24", SEE TYPICAL TRENCH DETAIL #12, THIS SHEET.
8. EXCAVATE A MINIMUM WIDTH EQUAL TO THE DIMENSIONS OF THE BOX PULS 6" ON ALL SIDES. BACKFILL WITH ROCK-FREE NATIVE SOIL AT 90% COMPACTION.



UNDERGROUND PULLBOX DETAIL
N.T.S | 9

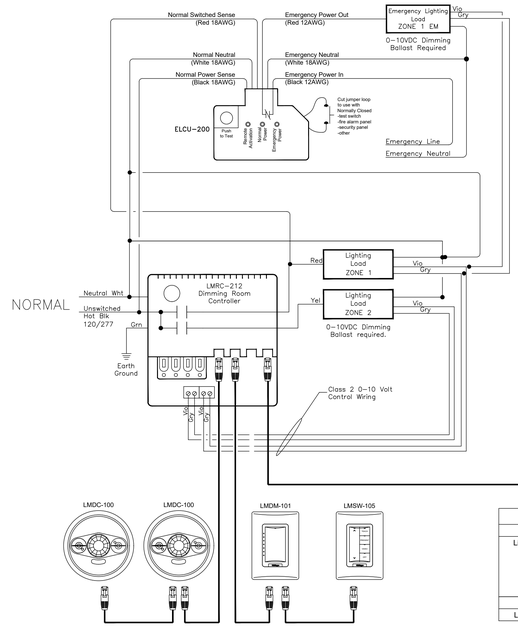
1. ELECTRICAL CONDUIT, SEE PLAN FOR SIZE AND QUANTITY.
2. P-1000 UNISTRUT CHANNEL @ 6'-0" O.C. MAX. WITH 3/16"-DIA WOOD SCREW TO CENTER LINE (E) CEILING/ WALL STUD.
3. UNISTRUT P11 SERIES PIPE CLAMP.
4. (E) WALL.



CONDUIT MOUNTED ON WALL
N.T.S | 10

Bill Of Materials — Room Name(s): SMALL CLASSROOM WITH DAYLIGHTING

2	LMRC-212
1	ELCU-200
2	LMDC-100
1	LMLS-500
1	LMDM-101
1	LMSW-105



SEQUENCE OF OPERATION:

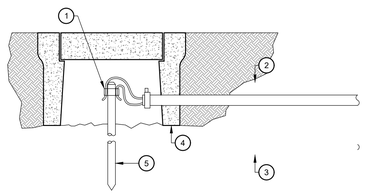
1. ALL LOADS ARE 0-10V DIMMABLE.
2. ZONE 1 = TEACHING WALL NON-DAYLIGHT ZONE
   ZONE 2 = TEACHING WALL DAYLIGHT ZONE
   ZONE 3 = GENERAL NON-DAYLIGHT ZONE
   ZONE 4 = GENERAL DAYLIGHT ZONE
3. EACH LOAD WILL BE MANUALLY CONTROLLED AS SHOWN IN THE DLM SWITCH CONTROL SCHEDULE.
4. THE ELCU-200 ALLOWS EMERGENCY LIGHTING TO VE SWITCHED WITH NORMAL LIGHTING. WHEN NORMAL POWER SENSE FEED IS LOST, ELCU WILL FORCE EMERGENCY LIGHTS TO FULL, REGARDLESS OF THE POSITION OF THE SWITCH.
5. THE LMSW-105 DIGITAL SCENE SELECTOR SWITCH OVERRIDES THE SCHEDULED SCENE ASSOCIATED SPACE UNTIL THE NEXT PERIOD OF OCCUPANCY.
6. PRESSING ONE OF THE FOUR PRESET SCENE-SELECTION BUTTONS ON THE LMSW-104 DIGITAL SCENE SELECTION WALL-SWITCH TURNS ON T LIGHTS IN EACH ZONE TO THE ILLIMUNACE LEVEL FOR THAT ZONE IN THE SELECTED PRESET LIGHTING SCENE.
7. DEPRESSING THE LARGE DIMMING PADDLE OF THE LMSW-105 DIGITAL SCENE SELECTOR SWITCH UP OR DOWN OVERRIDES THE LIGHTING LEVEL OF EACH ASSIGNED ZONE PROPORTIONALLY UNTIL THE NEXT PERIOD OF OCCUPANCY.
8. THE OCCUPANCY/VACANCY SENSOR SHALL TURN LIGHTS OUT AFTER 20 MINUTES OF NO OCCUPANCY DETECTION.
9. THE LMLS PHOTO SENSOR MONITORS THE DAYLIGHT CONTRIBUTION FROM THE WINDOW AND WORKS WITH THE ROOM CONTROLLER(S) TO MAINTAIN DESIGN LIGHT LEVELS. UP TO 3 DAYLIGHT ZONES WITH DIFFERENT SET POINTS MAY BE ASSIGNED.

DLM Switch Control Schedule

Switch	Button	Description	Controlled Loads
LMSW-105	Rocker	Raise/Lower	Selected Scene - Raise/Lower & On/Off
	1: Scene 1	Teach	All Zones - 75%
	2: Scene 2	Present	Zones 1 & 2 - 25%; Zones 3 & 4 - 75%
	3: Scene 3	Video	Zone 1 & 2 - 0%; Zones 3 & 4 - 25%
	4: Scene 4	OFF	All Zones - OFF
LMDM-101	Rocker	Raise/Lower	ALL ZONES - Raise/Lower & On/Off

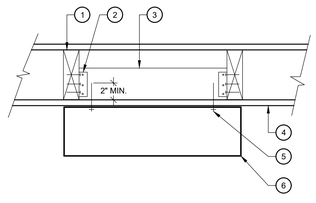
TYPICAL CLASSROOM LIGHTING CONTROL DIAGRAM
N.T.S | 01

1. GROUNDING CLAMP.
2. FINISH GRADE
3. CONDUIT WITH GROUND WIRES.
4. CHRISTY #G5 WITH #G5C LID, FLUSH WITH GRADE.
5. 3/4" DIA. x 10'-0" CU. GROUND ROD.



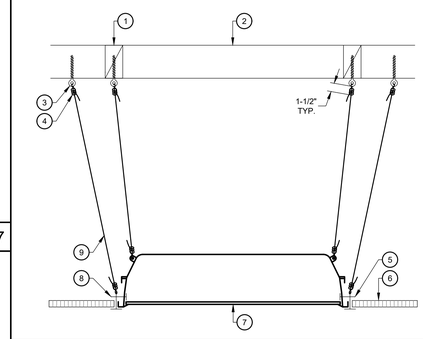
TYPICAL GROUND ROD DETAIL
N.T.S | 11

1. 2X WALL STUD.
2. SIMPSON A34 EACH END OF BLOCKING, TYP. TOP AND BOTTOM.
3. 4x4 BLOCKING AT TOP AND BOTTOM.
4. GYP. BOARD.
5. 5/16" x 3" LAG BOLT WITH WASHER, AT EACH CORNER (TYP.)
6. SURFACE MOUNTED PANELBOARD OR CABINET (WT. = 250 LBS. MAX.)

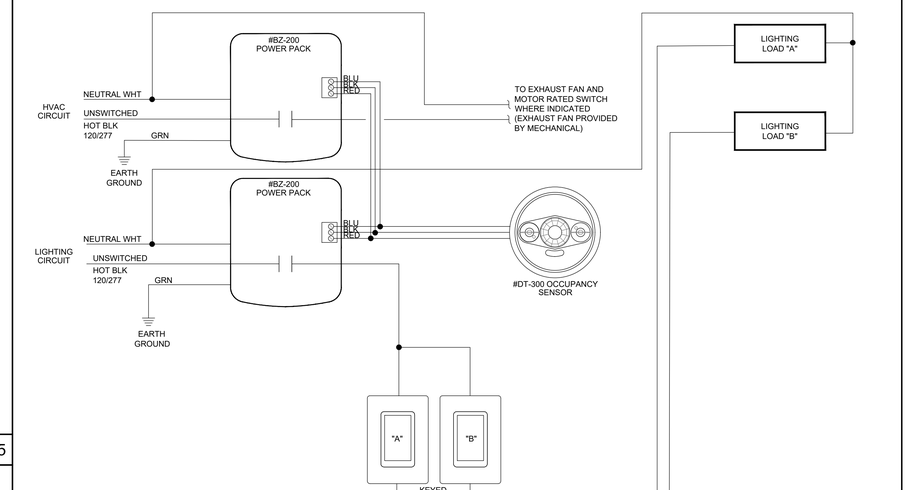


CABINET
SURFACE MOUNTED PANELBOARD OR
N.T.S | 07

1. BUILDING STRUCTURAL MEMBER OR 2" x 4" .
2. BUILDING STRUCTURAL MEMBER.
3. 3/16" DIA WOOD SCREW WITH MINIMUM 1-1/2" PENETRATION.
4. #12 HANGER WIRES - MINIMUM OF 3 TIGHT TURNS WITH 1-1/2" ON EACH END. PROVIDE FIXTURE SUPPORT WIRES AT ALL FOUR (4) CORNERS FOR FIXTURES WEIGHING OVER 56 lbs. OTHERWISE TWO (2) WIRES AT DIAGONALLY OPPOSITE CORNERS. FIXTURE SUPPORT WIRES ARE SEPARATE FROM CEILING SUPPORT WIRES.
5. PROVIDE TEK SCREWS ON OPPOSITE SIDES OF THE FIXTURE TYPICAL OF TWO. ONE ON EACH SIDE OF THE FIXTURE.
6. ACOUSTIC TILE.
7. LIGHT FIXTURE.
8. PROVIDE #8 STSMS AT EACH CORNER.
9. CEILING SUPPORT WIRES.

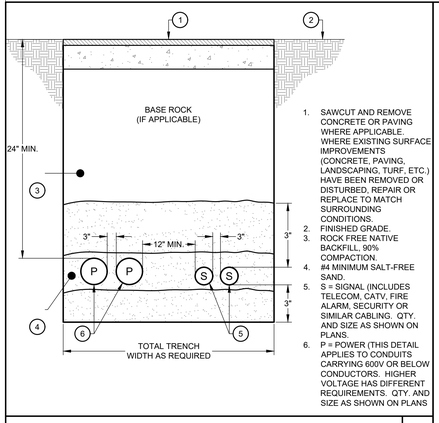


LIGHT FIXTURE IN T-BAR CEILING
N.T.S | 05

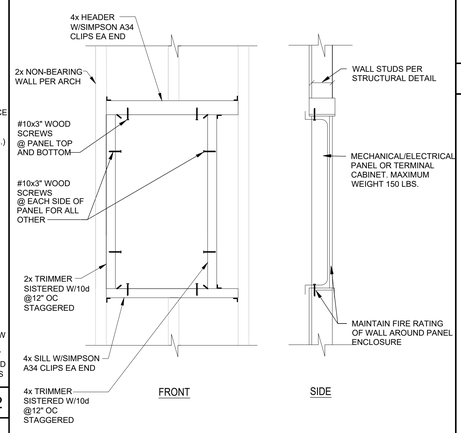


NON-DIMMING WITH OCCUPANCY SENSOR (RESTROOM) LIGHTING CONTROL DIAGRAM
N.T.S | 02

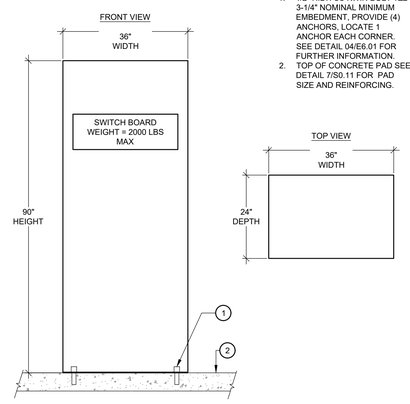
1. BASE ROCK (IF APPLICABLE)
2. SAWCUT AND REMOVE CONCRETE OR PAVING WHERE APPLICABLE, WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVING, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED, REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
3. FINISHED GRADE.
4. ROCK FREE NATIVE BACKFILL, 90% COMPACTION.
5. #4 MINIMUM SALT-FREE SAND.
6. S = SIGNAL (INCLUDES TELECOM, CATV, FIRE ALARM, SECURITY OR SIMILAR CABLING. QTY. AND SIZE AS SHOWN ON PLANS.
7. P = POWER (THIS DETAIL APPLIES TO CONDUITS CARRYING 600V OR BELOW CONDUCTORS. HIGHER VOLTAGE HAS DIFFERENT REQUIREMENTS. QTY. AND SIZE AS SHOWN ON PLANS



TRENCH DETAIL
N.T.S | 12



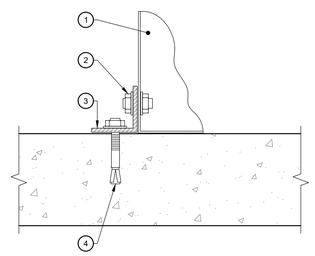
RECESSED MOUNTED PANEL (NON-BEARING WALL)
N.T.S | 08



BLDG. SWITCH BOARD ANCHORAGE
N.T.S | 06

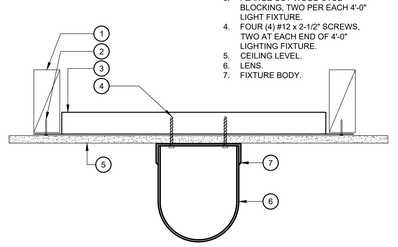
1. 1/2" HILTI SS KWIK-BOLT TZ2 3-1/4" NOMINAL MINIMUM EMBEDMENT, PROVIDE (4) ANCHORS, LOCATE 1 ANCHOR EACH CORNER. SEE DETAIL 04/E6.01 FOR FURTHER INFORMATION.
2. TOP OF CONCRETE PAD SEE DETAIL 7/S0.11 FOR PAD SIZE AND REINFORCING.

1. SWITCHBOARD BASE FRAME.
2. 1/2" MACHINE BOLT WITH LOCK NUT & WASHER.
3. 3" x 3" x 1/4" THICK STEEL ANGLE.
4. 1/2" CONCRETE EXPANSION ANCHOR 3.25" EMBEDMENT.



SWITCHBOARD ANCHOR DETAIL
N.T.S | 04

1. WOOD CEILING JOIST (TYP.).
2. FOUR (4) #12 WOOD SCREWS, TYP. AT EACH END.
3. FLANGE CUT WOOD STUD BLOCKING, TWO PER EACH 4'-0" LIGHT FIXTURE.
4. FOUR (4) #12 x 2-1/2" SCREWS, TWO AT EACH END OF 4'-0" LIGHTING FIXTURE.
5. CEILING LEVEL.
6. LENS.
7. FIXTURE BODY.



TYPICAL SURFACE MOUNTED FIXTURE ON HARD CEILING
N.T.S | 03

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Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

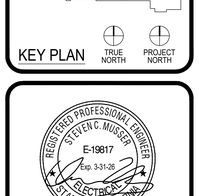
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LODI UNIFIED SCHOOL DISTRICT



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-26
ELECTRICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/12/2024
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

ELECTRICAL DETAILS

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E6.01

A6.01 - EXTERIOR ELEVATIONS

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

This document is used to demonstrate compliance with mandatory requirements in 110.8(g) and 120.7(b)/ 160.1 for newly constructed nonresidential, hotel/ motel, multifamily and mixed-use buildings, and 141.0(b)1/ 180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in 140.3/ 170.2 for newly constructed buildings, and 141.0/ 180.1/ 180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.

Project Name:	George Washington ES	**Report Page:**	(Page 1 of 9)
Project Address:	831 W Lockeford St.	**Date Prepared:**	12/18/2023

A. GENERAL INFORMATION

01	Project Location (city)	Lodi	05	# of Stories (Habitable Above Grade)	1
02	Zipcode	95240	06	Total Conditioned Floor Area (ft^2)	16462
03	Climate Zone	12	07	Total Unconditioned Floor Area (ft^2)	0
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per 100.0(f).		08	☐ Project includes unconditioned enclosed space(s) > 5,000 ft^2 under a roof with a ceiling height of at least 15 ft.[1]	

• All Other Occupancies

[1] FOOTNOTE: Enclosed spaces > 5,000 ft^2 directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in 140.3(c)/ 170.2(b). Compliance with 140.3(c)/ 170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in 140.3/ 170.2 and 141.0(a)1/ 180.1 and 141.0(b)1 and 2/ 180.2 for additions and alterations.

My project consists of (check all that apply) 01	Component Types 02			
☐ New Construction or Newly Conditioned Space	☐ Roof	☐ Walls	☐	Exterior Opaque Doors
☐ One or more enclosed spaces > 5,000 ft^2 directly under roof with ceiling height > 15ft		☐ Floors	☐	Fenestration/ Glazed Doors[1]
☐ Addition of conditioned space	☐ Roof	☐ Walls	☐	Exterior Opaque Doors
☐ One or more enclosed spaces > 5,000 ft^2 directly under roof with ceiling height > 15ft				
☐ Addition is <=700 ft^2		☐ Floors	☐	Fenestration/ Glazed Doors[1]
☐ Addition is >700 ft^2				
☒ Alteration of conditioned space	☐ Roof Assembly	☒ Walls		
☐ One or more enclosed spaces > 5,000 ft^2 directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐ Roofing Material[2]	☐ Floors	☒	Fenestration

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

Project Name:	George Washington ES	**Report Page:**	(Page 2 of 9)
		Date Prepared:	12/18/2023

B. PROJECT SCOPE

[1]FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.
[2]Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft^2	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
		Yes			Yes		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This section does not apply to this project.

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

Project Name:	George Washington ES	**Report Page:**	(Page 3 of 9)
		Date Prepared:	12/18/2023

H. WALL ASSEMBLY SCHEDULE

This table demonstrates compliance with prescriptive wall assembly requirements in 140.3(a)/ 170.2(a) for new constructions, 141.0(a)/ 180.1 for additions and 141.0(b)1B/ 180.2 for alterations.

01	Indicate wall types included in the project:[1]	☐ Framed	☐ Mass (new only)	☐ Concrete Sandwich Panel (new only)	☐ SIPS	☐ ICF (new only)
		☐ Metal Panels	☐ Metal Building	☐ Spandrel/ Curtain Wall	☐ Straw Bale	☐ Log Home (new only)

[1] FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

J. EXTERIOR DOOR SCHEDULE

This section does not apply to this project.

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in 140.3(a)5/ 170.2(a)3 for new constructions, 141.0(a)/ 180.1 for additions, or 141.0(b)2A/ 180.2 for alterations. Exterior doors that are more than 25% glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01	Indicate fenestration types included in the project:[1]	☒ Vertical (alterations)	☐ Vertical (new)	☐ Skylights	☐ Glazed Doors (new only)

[1] FOOTNOTES: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)		
01	☒	Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors[1]
02	☒	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors[1]
03	☒	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors[1]

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

Project Name:	George Washington ES	**Report Page:**	(Page 4 of 9)
		Date Prepared:	12/18/2023

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04 Tag/Plan Detail ID	05 Fenestration Type	06 Occupancy & Status	07 U-factor/ (R)SHGC Compliance Method	08 VT Compliance Method	09 Calculation Method for Performance Values per Design[2]	10 Product Performance Unit	11 Required Product Performance	12 Product Performance per Design	13 Area ft^2
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

Project Name:	George Washington ES	**Report Page:**	(Page 5 of 9)
		Date Prepared:	12/18/2023

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04 Tag/Plan Detail ID	05 Fenestration Type	06 Occupancy & Status	07 U-factor/ (R)SHGC Compliance Method	08 VT Compliance Method	09 Calculation Method for Performance Values per Design[2]	10 Product Performance Unit	11 Required Product Performance	12 Product Performance per Design	13 Area ft^2
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	140
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

Project Name:	George Washington ES	**Report Page:**	(Page 6 of 9)
		Date Prepared:	12/18/2023

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04 Tag/Plan Detail ID	05 Fenestration Type	06 Occupancy & Status	07 U-factor/ (R)SHGC Compliance Method	08 VT Compliance Method	09 Calculation Method for Performance Values per Design[2]	10 Product Performance Unit	11 Required Product Performance	12 Product Performance per Design	13 Area ft^2
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	230
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	230
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	
New Windows	Fixed window	Nonresidential/ Relocatable 1 CZ: : New	Table 140.3-B/C/D	Equation 140.3-B (new only)	NFRC Certified	U-factor (max)	0.34	0.28	260
					☐ Overhang/ Slats used for RSHGC	(R)SHGC (max)	0.22	0.22	
						VT (min)	0.28	0.5	

[1]FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.
[2]The NA6 Default Calculation can only be used for alterations or dwelling units in buildings with <= 3 habitable stories. Alterations are limited to 200ft^2 of site built glazing and dwelling units are limited to 250ft^2 or 5% of conditioned floor area. If the fenestration does not meet these conditions, the only options for determining fenestration values are NFRC Certification or the Default Tables in 110.6.
[3] Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.
[4]Projecting includes casement and awning windows.

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

Project Name:	George Washington ES	**Report Page:**	(Page 7 of 9)
		Date Prepared:	12/18/2023

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Area-Weighted Average U-factor, SHGC, VT Compliance Calculation for Vertical Fenestration And Glazed Doors

01 Product Performance Unit	02 Total Area of Fenestration (ft^2)	03 Area-weighted Calculation for Fenestration: Required	04 Area-weighted Calculation for Fenestration: Designed	05 Compliance Results Using Area-Weighted Calculation Option
U-Factor	2400	0.34	0.28	COMPLIES
(R)SHGC	2400	0.22	0.22	COMPLIES
VT	2400	0.42	0.5	COMPLIES

L. DAYLIGHT IN LARGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ENV-01-E - Must be submitted for all buildings

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-ENV-02-F must be submitted for all new, added or altered site built fenestration.	Fenestration;

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

Project Name:	George Washington ES	**Report Page:**	(Page 8 of 9)
		Date Prepared:	12/18/2023

O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA

Envelope Component Approach

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E

Project Name:	George Washington ES	**Report Page:**	(Page 9 of 9)
Project Address:	831 W Lockeford St.	**Date Prepared:**	12/18/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Faisal Mased	Documentation Author Signature: *Faisal Mased*
Company: PBK	Signature Date: 2023-12-18
Address: 1110 Iron Point Rd. Ste 200	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Folsom CA 95630	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: PBK	Responsible Designer Signature:
Company: PBK	Date Signed: 2023-12-18
Address: 1110 Iron Point Rd. Ste 200	License: C-24882
City/State/Zip: Folsom CA 95630	Phone:

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name:	George Washington ES	**Report Page:**	(Page 1 of 7)
Project Address:	831 W Lockeford St.	**Date Prepared:**	12/18/2023

A. GENERAL INFORMATION

01	Project Location (city)	Lodi	04	Total Conditioned Floor Area (ft^2)	16,462
02	Climate Zone	12	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

• Classroom • All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work 01	Conditioned Spaces: Calculation Method 02	Conditioned Spaces: Area (ft^2) 03	Unconditioned Spaces: Calculation Method 04	Unconditioned Spaces: Area (ft^2) 05
My Project Consists of (check all that apply):				
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	16462	Area Category Method	0
Total Area of Work (ft^2)	16462		0	

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E

Project Name:	George Washington ES	**Report Page:**	(Page 2 of 7)
		Date Prepared:	12/18/2023

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts); Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	01 Complete Building 140.6(c)1	02 Area Category 140.6(c)2 / 170.2(e)4	03 Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	04 Tailored 140.6(c)3 / 170.2(e)4B (+)		05 **Total Allowed** (Watts)		06 Total Designed (Watts)	07 Adjustments: PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		08 **Total Adjusted** (Watts) *Includes Adjustments	09 Compliance Results: **05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	=		≥	(See Table F)	(See Table P)	=		
Conditioned		9,586.6	0		=	9,587	≥	7,455	0	=	7455	COMPLIES
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E

Project Name:	George Washington ES	**Report Page:**	(Page 3 of 7)
		Date Prepared:	12/18/2023

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per 140.6(a)3 / 170.2(e)2C	09 Design Watts	10 Field Inspector: Pass	Fail
A	A 4FT LED	No	NA	35	Mfr. Spec	1	No	35	☐	☐
B	B 4FT LED	No	NA	35	Mfr. Spec	212	No	7,420	☐	☐
Total Designed Watts: CONDITIONED SPACES								7,455		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03 Field Inspector: Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C		
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E

Project Name:	George Washington ES	**Report Page:**	(Page 4 of 7)
		Date Prepared:	12/18/2023

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Manual Area Controls 130.1(a) / 160.5(b)4A	07 Multi-Level Controls 130.1(b) / 160.5(b)4B	08 Shut-Off Controls 130.1(c) // 160.5(b)4C	09 Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	10 Secondary Daylighting 130.1(d) / 160.5(b)4D	11 Interlocked Systems 140.6(a)1/ 170.2(e)2A	12 Field Inspector: Pass	Fail
Whole Building	All Other Space Types	Readily Accessible	Dimmer	See Building Level	Included	Included	No	☐	☐
					13 Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft^2)	04 Area (ft^2)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment: Area Category	PAF
Classrooms	Classroom, Lecture, or Training Vocational	0.6	15,009	9,005.4	No	No
Restrooms	All Other Space Types	0.4	1,453	581.2	No	No
		TOTALS:	16,462	9,586.6	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E

Project Name:	George Washington ES	**Report Page:**	(Page 5 of 7)
		Date Prepared:	12/18/2023

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E

Project Name:	George Washington ES	**Report Page:**	(Page 6 of 7)
		Date Prepared:	12/18/2023

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Whole Building;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-LTI-E

Project Name:	George Washington ES	**Report Page:**	(Page 7 of 7)
Project Address:	831 W Lockeford St.	**Date Prepared:**	12/18/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Faisal Mased	Documentation Author Signature: *Faisal Mased*
Company: Leaf Engineers	Signature Date: 2023-12-18
Address: 1110 Iron Point Rd. Ste 200	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Folsom CA 95630	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Steven C. Musser	Responsible Designer Signature:
Company: LEAF Engineers	Date Signed: 2023-12-18
Address: 1110 Iron Point Rd. Ste 200	License: E-19817
City/State/Zip: Folsom CA 95630	Phone:

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

PBK

ARCHITECT PBK-WLC, Inc.
PBK-WLC.com
1100 Iron Point Road, Suite 200
Folsom, CA 95630
916-355-9922

CONSULTANT
LEAF ENGINEERS
1100 Iron Point Road, Suite 200
Folsom, CA 95630
916-355-9922
leafengineers.com

GEORGE WASHINGTON ES MODERNIZATION
LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT

REGISTERED PROFESSIONAL ENGINEER
GAREN M. LENCIONI
NO. 33380
REN. 6-30-24
MECHANICAL
STATE OF CALIFORNIA

CLIENT
LODI UNIFIED SCHOOL DISTRICT

PROJECT NUMBER
230216

DATE 1/16/2024

DRAWN BY: CHKED BY:

REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

TITLE 24 COMPLIANCE DOCUMENTATION

T24.01

230216_LUSD-WashingtonES Mod_A21_detached.rvt

8/8/2023 2:40:15 PM

FIRE ALARM MATRIX OF OPERATION

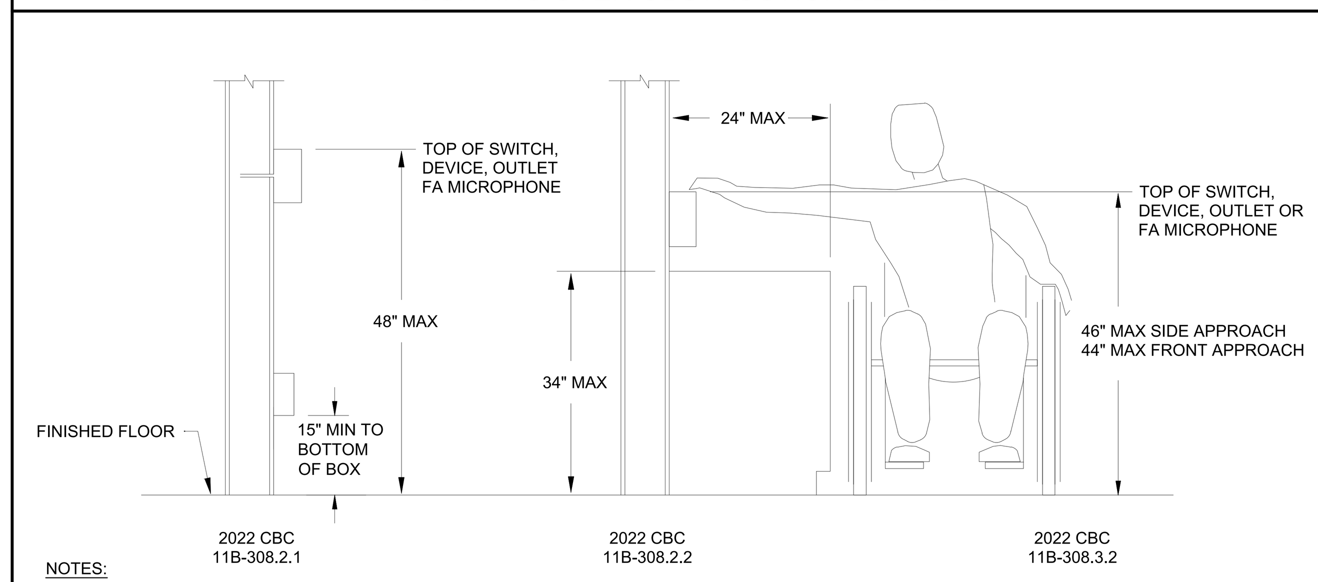
*REFERENCE NFPA 72, FIGURE A.14.6.2.4 (PAGE 72-228)

● = ACTION
☐ = NO ACTION

FIRE ALARM SYSTEM OUTPUTS:
- A. ACTUATE COMMON ALARM SIGNAL INDICATOR @ FACP
- B. ACTUATE ALL AUDIBLE/VISUAL ALARM SIGNALS IN BUILDING
- C. ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR @ FACP
- D. ACTUATE AUDIBLE SUPERVISORY SIGNAL @ FACP
- E. ACTUATE AUDIBLE COMMON TROUBLE SIGNAL @ FACP
- F. SHUT DOWN HVAC UNIT FANS IN ASSOCIATED BUILDING
- G. TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION
- H. TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION
- I. TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION
- J. CLOSE FSD's AND FIRE DOORS IN RATED WALLS
- K. RELEASE ELECTRONICALLY HELD DOORS
- L. SOUND TEMPORAL CODE 4 SIGNAL

	FIRE ALARM SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L
1.	MANUAL FIRE ALARM PULL STATION	●	●					●				●	
2.	SMOKE OR HEAT DETECTOR	●	●				●	●			●	●	
3.	FIRE SPRINKLER WATER FLOW	●	●					●				●	
4.													
5.	TAMPER SWITCH, PIV & OS&Y			●	●				●				
6.	FIRE ALARM AC POWER FAILURE					●				●			
7.	FIRE ALARM SYSTEM LOW BATTERY					●				●			
8.	FIRE ALARM OPEN CIRCUIT					●				●			
9.	FIRE ALARM GROUND FAULT					●				●			
10.	NAC CIRCUIT SHORT					●				●			
11.	CELLULAR COMMUNICATOR FAULT					●				●			
12.	CO DETECTOR	●	●				●	●					●
13.	EXTINGUISHING SYSTEM (ANSUL)	●	●					●					

MOUNTING OVER OBSTRUCTION DETAIL

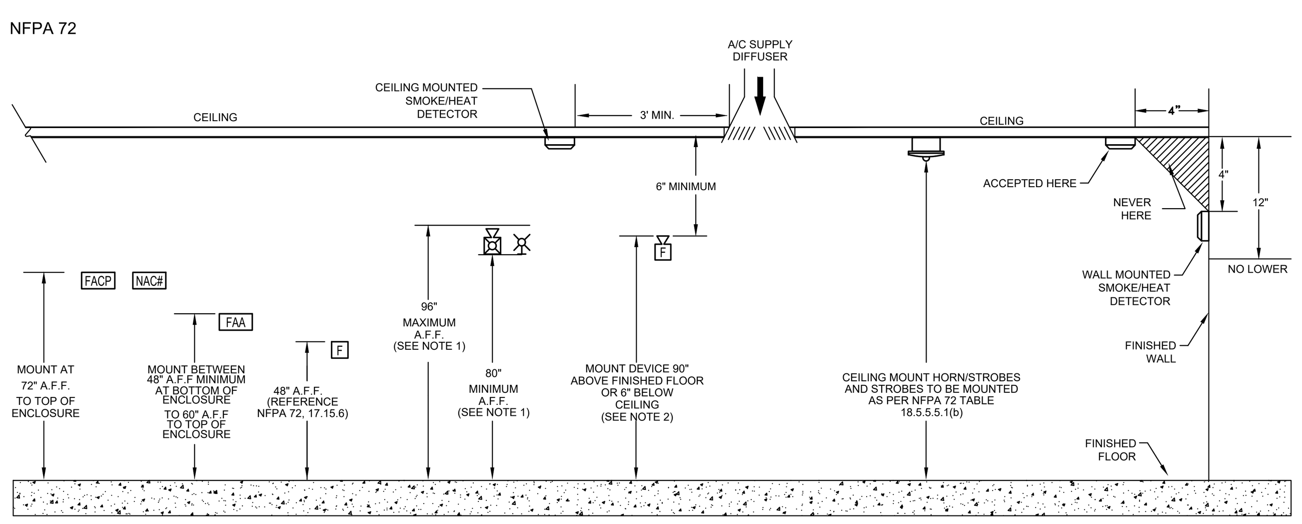


NOTES:

1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).
2. FORWARD OR FRONT APPROACH FOR DEVICES MOUNTED ABOVE COUNTERS ASSUMES THAT DIRECTLY BELOW THE DEVICE, THE COUNTER HAS A 30"MIN. WIDTH X27" HIGH X19" MIN. DEEP CLEAR OPENING. CBC SECTIONS 11B-306 & 11B-308.

FIRE ALARM ELEVATION MOUNTING DETAIL

NFPA 72



NOTES:

1. WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. (2.03m) AND NOT GREATER THAN 96 IN. (2.44m) ABOVE THE FINISHED FLOOR OR AT THE MOUNTING HEIGHT SPECIFIED USING THE PERFORMANCE-BASED ALTERNATIVE OF 18.5.5.7. (NFPA 72, CHAPTER 18.5.5.1*)
2. WHERE LOW CEILING HEIGHTS DO NOT PERMIT ALL MOUNTING AT A MINIMUM OF 80 IN. (2.03m), WALL MOUNTED VISUAL NOTIFICATION APPLIANCES SHALL BE MOUNTED WITHIN 6 IN. (150mm) OF THE CEILING. (NFPA 72, CHAPTER 18.5.5.2)

FIRE ALARM DEVICE ADDRESS LEGEND

01
└ SLC OR ZONE DEVICE #

1. SIGNATURE LINE CIRCUIT (INITIATION) DEVICE ADDRESS. ADDRESSES MAY DIFFER DEPENDING ON MANUFACTURER.

N1. 1
└ NAC DEVICE
└ NAC CIRCUIT (FACP)

2. FIRE ALARM CONTROL PANEL NOTIFICATION APPLIANCE CIRCUIT ADDRESS.

A. 1. 1
└ NAC DEVICE
└ NAC CIRCUIT
└ NAC POWER SUPPLY # (REMOTE POWER SUPPLY)

3. REMOTE POWER SUPPLY NOTIFICATION APPLIANCE CIRCUIT ADDRESS.

SA. 1. 1
└ SPEAKER/SPEAKER STROBE
└ SPEAKER CIRCUIT
└ AMPLIFIER NUMBER

4. EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM AMPLIFIER AND SPEAKER ADDRESSES.

NOTES:

1. DEVICE ADDRESSING VARIES DEPENDING ON THE MANUFACTURER. FIRE ALARM CONTRACTOR TO PROGRAM DEVICES ACCORDING TO THE MANUFACTURER'S OPERATION MANUAL.
2. CORRECT DEVICE ADDRESSING TO BE REFLECTED ON AS-BUILT RECORD DRAWINGS.

FIRE ALARM SYSTEM EQUIPMENT LEGEND AND SYMBOLS

SYM.	MODEL	MANUFACTURER	DESCRIPTION	MOUNTING	CSFM #
FACP	E-3	GAMEWELL	EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM PANEL W/MICROPHONE ILI-MB-E3 INTELLIGENT LOOP INTERFACE - MAIN BOARD ILI-S-E3 INTELLIGENT LOOP INTERFACE - EXPANSION BOARD LCD-SLP LCD TOUCH SCREEN DACT-E3 DIGITAL ALARM COMMUNICATOR TRANSMITTER ANU-48 LED DRIVER MODULE ASM-16 ADDRESSABLE SWITCH MODULE INCC-MIC PAGIN MICROPHONE PM-9 POWER SUPPLY MODULE INI-VG INTELLIGENT NETWORK INTERFACE-VOICE GATEWAY	WALL MOUNT	7165-1703:0125
FAC	HW-TG7FS-A	HONEYWELL/ TELGUARD	5G CELLULAR FIRE ALARM COMMUNICATOR (AT&T)	WALL MOUNT	7300-1402:0504
AMP-#	AM-50-70	GAMEWELL	50 AMP./70.7VRMS EMERGENCY VOICE/FIRE ALARM SYSTEM AMPLIFIER	WALL MOUNT	7165-1703:0125
NAC-#	HPF24S8	GAMEWELL	8 AMP. NOTIFICATION APPLIANCE DISTRIBUTED POWER SUPPLY	WALL MOUNT	7315-1637:0102
BATT	FCI-LBB W/ FCI-CHG-120	GAMEWELL	BATTERY BOX WITH CHARGING SYSTEM	WALL MOUNT @ FACP	7165-1703:0125
FATC	SSU00635	S.A.E.	TC SERIES FIRE ALARM TERMINAL CABINET	WALL MOUNT	7300-0553:0110
AIM 1	AMM-4F	GAMEWELL	SINGLE ADDRESSABLE INPUT MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-1703:0102
AIM 2	AMM-2IF	GAMEWELL	DUAL ADDRESSABLE INPUT MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-1703:0107
ARM	AOM-2RF	GAMEWELL	ADDRESSABLE RELAY MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-1703:0102
AOM	AOM-2SF	GAMEWELL	ADDRESSABLE CONTROL MODULE	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-1703:0102
S P	ASD-PL3 B300-6	GAMEWELL	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR HEAD DETECTOR BASE	4-11/16" SQUARE BOX W/ 3 O RING	7272-1703:0501 7300-1653:0109
S ▲	MCS-COF3 B200S-WH	GAMEWELL	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR (P = PHOTOELECTRIC, CO = CARBON MONOXIDE, SB = SOUNDER BASE (TEMPORAL CODE 4) B200S-IV)	4-11/16" SQUARE BOX W/ 3 O RING	7272-1703:0508 7300-1653:0213
H	ATD-L3H B300-6	GAMEWELL	ADDRESSABLE HEAT DETECTOR HEAD DETECTOR BASE	4-11/16" SQUARE BOX W/ 3 O RING	7270-1703:0502 7300-1653:0109
F	MS-7AF	GAMEWELL	ADDRESSABLE DOUBLE ACTION PULL STATION	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7150-1703:0119
	SRL-P	SYSTEM SENSOR	MULTI CANDELA STROBE, WALL MOUNT - PLAIN NON MARKING	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7125-1653:0504
	SPSRL-P	SYSTEM SENSOR	MULTI CANDELA TEMPORAL SPEAKER STROBE, WALL MOUNT - PLAIN NON MARKING	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7320-1653:0505
WP S	SPRK	SYSTEM SENSOR	WEATHER PROOF SPEAKER, WALL MOUNT-RED	WBB BACK BOX IS INCLUDED	7320-1653:0201
DOC	SSU00672	SAE	FIRE DOCUMENT BOX-RED	WALL MOUNT @ FACP	UL LISTED
SS	DTK-120HWLOK	DITEK	120VAC, 20AMP SURGE PROTECTOR	4-11/16" SQUARE BOX 2-1/8" MIN. DEPTH	7300-2105:0102
DH	(E)	(E)	EXISTING MAGNETIC DOOR HOLDER (REF. APP# 63040 & 46589)	EXISTING	N/A
J	TBD	TBD	ELECTRICAL JUNCTION BOX (VARIABLE SIZES)	TBD	N/A
WF	(E)	(E)	EXISTING FIRE SPRINKLER RISER WATER FLOW SWITCH (REF. APP# 63040)	EXISTING	N/A
	(E)	(E)	EXISTING OUTSIDE STEM AND YOLK SUPERVISORY SWITCH (REF. APP# 63040)	EXISTING	N/A
	(E)	(E)	EXISTING FIRE SPRINKLER BELL (REF. APP# 63040)	EXISTING	N/A
S	(E)	(E)	EXISTING FIRE SMOKE DAMPER (FSD) (REF. APP# 63040)	EXISTING	N/A
NO SYMBOL	PS-1270	POWER-SONIC	12VDC, 7Ah SEALED LEAD ACID RECHARGEABLE BATTERY	INSTALL IN NAC, AMP AND COMMUNICATOR ENCLOSURES	UL LISTED
NO SYMBOL	PS-12550	POWER-SONIC	12VDC, 55Ah SEALED LEAD ACID RECHARGEABLE BATTERY	INSTALL IN BATTERY ENCLOSURE	UL LISTED

NOTES:

1. ALL FIRE ALARM DEVICES ARE NEW UNLESS OTHERWISE NOTED.

FIRE ALARM WIRE SCHEDULE

TAG	COND.	TYPE	AWG	DESCRIPTION	USE
A	2	SOLID	18	#18/2, RED JACKET, FPLP	SIGNAL LINE CIRCUIT (SLC)
Au	2	STRANDED	18	#18/2, RED JACKET (FIRE UNDERGROUND RATED)	SIGNAL LINE CIRCUIT (SLC) - UNDERGROUND
B	2	SOLID	16	#16/2, RED JACKET, FPLP	SBUS
Bu	2	STRANDED	16	#16 THWN RED(+) BLACK(-) JACKET (FIRE UNDERGROUND RATED)	SBUS - UNDERGROUND
V	2	SOLID	16	#16/2 -OVERALL SHIELDED CLASS 2 CABLE	VOICE BUS CIRCUIT
Vu	2	STRANDED	16	#16/2 -OVERALL SHIELDED C2 CABLE (UNDERGROUND RATE)	VOICE BUS CIRCUIT - UNDERGROUND
N	2	SOLID STRANDED	12	#12/2, RED JACKET, FPLP #12, THWN, RED (+) BLACK (-) WHEN USED IN CONDUIT	NOTIFICATION APPLIANCE CIRCUIT
Nu	2	STRANDED	12	#12 THHN, THWN RED(+) BLACK(-) (FIRE UNDERGROUND RATED)	NOTIFICATION APPLIANCE CKT.-UNDERGROUND
S	2	STRANDED	16	#16/2 -OVERALL SHIELDED CLASS 2 CABLE	SPEAKER CIRCUIT
Su	2	STRANDED	16	#16/2 -OVERALL SHIELDED C2 CABLE (UNDERGROUND RATE)	SPEAKER CIRCUIT - UNDERGROUND

NOTES:

1. ALL FIRE ALARM WIRING SHALL BE CLASS "B", STYLE "Y" UNLESS OTHERWISE NOTED.

FIRE ALARM SCOPE OF WORK

1. INSTALL A NEW AUTOMATIC EMERGENCY VOICE/FIRE ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH NFPA 72, CBC §907, CFC §907.2.3, DSA GL-2 (REV 8/10/18), IR 9-1 (REV 2/19/20). IR 9-2 (7/27/21), CMC §608.1 AND THE AUTHORITY HAVING JURISDICTION.

FIRE ALARM SYSTEM CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
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
NFPA 13 STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) 2022 EDITION.
NFPA 14 STANDARD FOR INSTALLATION OF STANDPIP AND HOSE SYSTEMS (CA AMENDED) 2019 EDITION.
NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION.
NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION.
NFPA 20 STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2019 EDITION.
NFPA 22 STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION 2018 EDITION.
NFPA 24 STANDARD FOR INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (CA AMENDED) 2019 EDITION.
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2022 EDITION
NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES 2019 EDITION.
NFPA 2001 STANDARD FOR CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED) 2018 EDITION.
UL300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010) EDITION.
UL464 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.
UL1971 STANDARD FOR SIGNALING DEVICES FOR HEARING IMPAIRED 2002 (R2010) EDITION.
ICC300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS 2017 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.

FIRE ALARM REQUIREMENTS

THE CONTRACTOR SHALL PROVIDE AND SUBMIT THE FIRE ALARM SHOP DRAWINGS AND AS BUILT DRAWINGS TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO AND AFTER INSTALLATION AND ACCEPTANCE OF THE FIRE ALARM SYSTEM. SUBMITTALS SHALL CONTAIN THE FOLLOWING:

A. SHOP DRAWINGS: COMPLETE 1/8" MINIMUM SCALE FLOOR PLANS SHOWING ALL DEVICES, APPLIANCES, COMPONENTS, CONDUIT AND WIRING INDICATING A COMPLETE AND OPERABLE SYSTEM AS DESIGNED AND SPECIFIED. REPRODUCED COPIES OF THE BID SET OF FIRE ALARM PLANS ARE NOT ACCEPTABLE AS SHOP DRAWINGS. SHOP DRAWINGS MUST ALSO INDICATE DEVICE QUANTITIES, DEVICE MOUNTING HEIGHTS, ROOM NAMES & NUMBER AND LOCATIONS OF ALL FIRE RATED WALLS.
B. SHOP DRAWINGS SHALL INCLUDE ELECTRICAL CONTRACTOR'S AND/OR FIRE ALARM SYSTEM INSTALLERS NAME, ADDRESS, PHONE NUMBER AND C-10 LICENSE NUMBER IN THEIR TITLE BLOCK STAMPED.
C. LIST OF SYSTEM COMPONENTS, EQUIPMENT AND DEVICES, INCLUDING MANUFACTURE'S MODEL NUMBER(S) AND CALIFORNIA STATE FIRE MARSHALL LISTING NUMBER(S).
D. SHOP DRAWINGS TO USE ALL NFPA-170 SYMBOLS. NO EXCEPTIONS.
E. ORIGINAL COPIES OF MANUFACTURE'S SPECIFICATION SHEETS FOR ALL EQUIPMENT AND DEVICES AS INDICATED.
F. AS BUILT DRAWINGS SHALL BE COMPLETE AND REFLECT THE FIRE ALARM SYSTEM AS ACTUALLY INSTALLED WITH ALL OF THE CONTROL PANELS, DEVICES AND APPLIANCES SHOWN, ADDRESSED ACCORDING TO THE MANUFACTURE'S OPERATION MANUAL, ALL CONDUCTORS ANNOTATED AND REFLECT ALL REQUIREMENTS AS STATED FOR SHOP DRAWINGS.
G. UPON COMPLETION AND ACCEPTANCE OF THE THE PROJECT, A REPRODUCIBLE SET OF AS BUILT DRAWINGS OF THE ENTIRE FIRE ALARM SYSTEM OR AREAS WORKED UPON SHALL BE PROVIDED IN PDF AND ELECTRONIC DESIGN PROGRAM (CURRENT AUTODESK AUTOCAD MINIMUM) FORM TO THE ARCHITECT/ENGINEER OF RECORD FOR REVIEW.
H. VOLTAGE DROP CALCULATIONS TO INCLUDE THE FOLLOWING:

(a) POINT-TO-POINT OR OHMS LAW CALCULATIONS
(b) IDENTIFICATION OF THE ZONE OR CIRCUIT IN CALCULATIONS
(c) VOLTAGE DROP PERCENTAGE (NOT TO EXCEED THE LISTED MANUFACTURE'S OPERATING VOLTAGE RANGES)
(d) NOTE OF CIRCUIT NUMBER FOR WORST CASE CALCULATION

I. BATTERY TYPE(S), AMP HOURS AND CALCULATIONS. INCLUDE THE FOLLOWING:

1. NORMAL OPERATION: 100% OF APPLICABLE DEVICES FOR 24 HOURS = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING STANDBY. (I.E.: ZONE MODULES, DETECTORS AND OTHER IDENTIFIED DEVICES.
2. ALARM CONDITION: 100% OF THE APPLICABLE DEVICES FOR 15 MINUTES = CONTROL PANEL AMPS PLUS LIST OF AMPS PER DEVICE WHICH DRAW POWER FROM THE PANEL DURING ALARM. (I.E.: ZONE MODULES, SIGNAL MODULES, DETECTORS, SIGNAL DEVICES, ANNUNCIATORS, AMPLIFIERS AND OTHER IDENTIFIED DEVICES)
3. NORMAL OPERATION + ALARM OPERATION

a. TOTAL AMP HOURS REQUIRED.
b. TOTAL AMP HOURS PROVIDED.

FIRE WATCH NOTE

A FIRE PREVENTION AND SAFETY PLAN SHALL BE THE RESPONSIBILITY OF THE OWNER OR OWNER'S AUTHORIZED AGENT FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION OF ALL PHASES OF THE PROJECT FROM START TO ACCEPTANCE. (REFERENCE CFC §3301.1 THRU §3303.10) THE FIRE CODE OFFICIAL OR THE LOCAL AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED IMMEDIATELY WHENEVER THE FIRE PROTECTION / ALARM SYSTEM IS OUT OF SERVICE. A FIRE WATCH SHALL BE PROVIDED WITH NO LESS THAN ONE (1) MEANS FOR NOTIFICATION OF THE FIRE DEPARTMENT AND PERFORM CONSTANT PATROLS OF THE PROTECTED PREMISES IN ACCORDANCE WITH DSA IR F-2 AND CFC §901.7.

FIRE ALARM SYSTEM ABBREVIATIONS

*NOT ALL ABBREVIATIONS WILL APPLY

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
ARCH.	ARCHITECT; ARCHITECTURAL
AWG	AMERICAN WIRE GAUGE
C	CEILING
CFC	CALIFORNIA FIRE CODE
CKT	CIRCUIT
C.O.	CONDUIT ONLY WITH PULL WIRE
CU	COPPER
DWG	DRAWING
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
FA	FIRE ALARM
FLR	FLOOR
FT	FEET
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
(N)	NEW
NIC	NOT IN CONTRACT
PNL	PANEL
(R)	REMOVE, REPLACE or RELOCATE
REQ'D	REQUIRED
SF	SQUARE FEET
SHT	SHEET
SW	SWITCH
TYP	TYPICAL
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
W	WATT
WP	WEATHERPROOF

FIRE ALARM SHEET INDEX

SHEET #	SHEET DESCRIPTION
FA0.0	FIRE ALARM COVER SHEET
FA0.1	CAL GREEN CHECKLIST
FA1.0	FIRE ALARM SITE PLAN
FA1.1	FIRE ALARM FLOOR PLAN - BUILDING A
FA1.2	FIRE ALARM FLOOR PLAN - BUILDING B
FA1.3	FIRE ALARM FLOOR PLAN - BUILDING C
FA1.4	FIRE ALARM FLOOR PLAN - BUILDINGS D & E
FA1.5	FIRE ALARM FLOOR PLAN - WEST PORTABLE CLASSROOM BLDGs
FA2.0	FIRE ALARM RISER DIAGRAM
FA3.0	FIRE ALARM CALCULATIONS
FA4.0	FIRE ALARM DETAILS
FA4.1	FIRE ALARM DETAILS

FIRE ALARM GENERAL NOTES

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM THE FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN THE SAME VIEW OF EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPLR OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS' SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 7.8.2(a).
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 907.6.6.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
27. THE AUDIBLE CARBON MONOXIDE ALARM SIGNAL SHALL BE A FOUR-PULSE TEMPORAL PATTER AND COMPLY WITH THE FOLLOWING:
   (1) SIGNALS SHALL BE A PATTER CONSISTING OF FOUR CYCLES OF 100 MILLISECONDS +/- 10 PERCENT "ON" AND 100 MILLISECONDS +/- 10 PERCENT "OFF".
   (2) AFTER THE INITIAL 4 MINUTES OF ALARM, THE 5-SECOND "OFF" TIME SHALL BE PERMITTED TO BE CHANGED TO 60 SECONDS +/- 10 PERCENT.
   (3) THE ALARM SIGNAL SHALL BE REPEATED IN COMPLIANCE WITH NFPA 72 18.4.3.2(1)(2)(3)(4) UNTIL THE ALARM RESETS OR THE ALARM SIGNAL IS MANUALLY SILENCED.
28. A CARBON MONOXIDE ALARM SIGNAL SHALL TAKE PRECEDENCE OVER SUPERVISORY OR TROUBLE SIGNALS. (NFPA 72, 26.2.4.1) THE ACTUATION OF A CARBON MONOXIDE DETECTOR OR SYSTEM SHALL BE DISTINCTIVELY INDICATED AS A CARBON MONOXIDE ALARM SIGNAL. (NFPA 72, 26.2.4.1.2)
29. ALL EQUIPMENT SHALL BE NEW, UNDERWRITERS LABORATORY AND CALIFORNIA STATE FIRE MARSHAL LISTED.
30. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO AREAS THAT REQUIRE SERVICING, TROUBLESHOOTING, ETC.
31. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
32. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES, AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY MECHANICAL CONTRACTOR IN ACCORDANCE WITH CMC §608.
33. ALL DUCT SMOKE DETECTORS SHALL BE MOUNTED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTORS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.
34. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
35. ALL FIRE ALARM DEVICE BACKBOXES, FIRE ALARM TERMINAL CABINETS, GUTTERS, JUNCTION BOXES, AND ASSOCIATED CONDUITS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO FIRE ALARM SYMBOL LIST AND/OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
36. SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED PER THE MANUFACTURER'S INSTRUCTIONS.
37. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.
38. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.
39. POINT, COMMON ANNUNCIATION, AND T-TAPPING ARE PROHIBITED.
40. PROVIDE 3/4" CONDUIT FROM FIRE ALARM CONTROL PANEL TO TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING.
41. ALL CONDUIT SHALL BE 3/4" MINIMUM, UNLESS OTHERWISE NOTED.
42. ALL FIRE SPRINKLER WATER FLOW SWITCHES SHALL BE 2 WIRE WITH NON-ELECTRONIC RETARD TYPE.
43. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
44. FIRE ALARM SYSTEM SHALL BE UL LISTED (UUJS).
45. CBC 907.6.6.4 GROUP E SCHOOLS: AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD, FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 907.6.6.2.
46. SUBSTITUTION OF SYSTEM COMPONENTS OR MANUFACTURER WILL REQUIRE THE CONTRACTOR TO SEPARATELY OBTAIN APPROVAL WITH THE CSFM AT CONTRACTOR'S EXPENSE AND SHALL MEET ALL REQUIREMENTS OF THE SYSTEM AS DESIGNED AND PRE-APPROVED. ALL PROPOSED SUBSTITUTIONS SHALL BE LISTED WITH THE CALIFORNIA STATE FIRE MARSHAL.
47. FINAL ACCEPTANCE TEST TO INCLUDE TESTING THE CONNECTION BETWEEN THE FIRE ALARM PANEL AND THE SUPERVISING STATION.
48. COORDINATE WITH THE ENGINEER FOR USE OF EXISTING CONDUIT ON A CASE BY CASE BASIS.
49. PRIOR TO DEMOLITION, CONTRACTOR SHALL TEST THE INTERCOM SYSTEM TO ENSURE FULL FUNCTIONALITY. GENERATE A LIST OF FAULTY EQUIPMENT AND PROVIDE TO THE OWNER AND THE ARCHITECT. PROVIDE PRICING FOR ANY REQUIRED EQUIPMENT REPAIRS OR REPLACEMENT.
50. CONTRACTOR SHALL DISCONNECT EXISTING FIRE ALARM SYSTEM FROM THE EXISTING INTERCOM SYSTEM. ENSURE THE INTERCOM SYSTEM IS COMPLETELY FUNCTIONAL AFTER DISCONNECTION.
51. CONTRACTOR SHALL CLEARLY MARK THE ABANDON SECTION OF PUBLIC ADDRESS SYSTEM.
52. PROVIDE A FIRE ALARM DOCUMENTATION CABINET PER NFPA72,7.7.
53. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CBC CHAPTER 33 AND CFC CHAPTER 33.
54. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS,DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK (CAC 4-317(C)).
55. CHANGES TO THE DIVISION OF THE STATE ARCHITECT APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS FOR CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE -SAFETY PORTIONS OF THE PROJECT. CHANGES SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK SHOWN THEREON CAC 4-338(C)).
56. PROJECT INSPECTOR TO APPROVE SYSTEM VOICE-EVACUATION INTELLIGIBILITY DURING TESTING PHASE.
57. CONTRACTOR SHALL PROVIDE ALL CABLING, RELAYS, MOUNTING HARDWARE AND ANY OTHER DEVICES (FIRE ALARM SYSTEM DEVICES) TO PROVIDE A FULLY FUNCTIONING FIRE ALARM OVERRIDE SYSTEM. WHEN FIRE ALARM CEASES, EACH LOCAL SOUND SYSTEM SHALL AUTOMATICALLY REVERT TO NORMAL OPERATION. FIRE ALARM MODULES AND CABLING BY FIRE ALARM CONTRACTOR.
58. FOR ALL HEAT DETECTORS THAT ARE LOCATED ABOVE CEILING/ATTIC SPACES, CONTRACTOR SHALL PROVIDE STICKER AND LABEL "HD" AT THE REFLECTED CEILING DIRECTLY BELOW THE DEVICE TO INDICATE LOCATION.
59. NOTIFICATION APPLIANCES USED FOR SIGNALING OTHER THAN FIRE SHALL NOT HAVE THE WORD "FIRE" OR ANY FIRE SYMBOL, IN ANY FORM (I.E., STAMPED, IMPRINTED, ETC.) ON THE APPLIANCE VISIBLE TO THE PUBLIC.NOTIFICATION APPLIANCES WITH MULTIPLE VISIBLE ELEMENTS SHALL BE PERMITTED TO HAVE FIRE MARKING ONLY ON THOSE VISIBLE ELEMENTS USED FOR FIRE SIGNALING. PER NFPA 72, 18.3.3.2/ NFPA 720, 6.3.3.2/ IR 9-2, 5.4.4 & 5.4.5.
60. AUTOMATIC FIRE ALARM SYSTEMS SHALL BE MONITORED AND SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. (UL) OR OTHER APPROVED LISTING AND TESTING LABORATORY OR SHALL COMPLY WITH THE REQUIREMENTS OF FM 3011. TERMINATION OF MONITORING SERVICES SHALL BE IN ACCORDANCE WITH SECTION 907.6.6.2.
61. THE NEW PROJECT SUBMITTAL TO INCLUDE DIRECTION THAT FIRE ALARM SYSTEM RECORD OF COMPLETION AND FIRE ALARM SYSTEM RECORD OF INSPECTION AND TESTING FORM THESE TWO DOCUMENTS FROM NFPA 72 ARE TO BE COMPLETED AND SUBMITTED PRIOR TO CLOSE OUT OF THE PROJECT. A COPY OF COMPLETED AND SIGNED FORM SHALL BE GIVEN TO THE ARCHITECT OR ENGINEER OF RECORD, THE PROJECT INSPECTOR, THE OWNER (SCHOOL DISTRICT) AND LOCAL FIRE AUTHORITY.
62. INTELLIGIBILITY SHALL BE TESTED ACCORDING TO NFPA 72 ANNEX D.2 (SPEECH INTELLIGIBILITY).
63. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

PBK

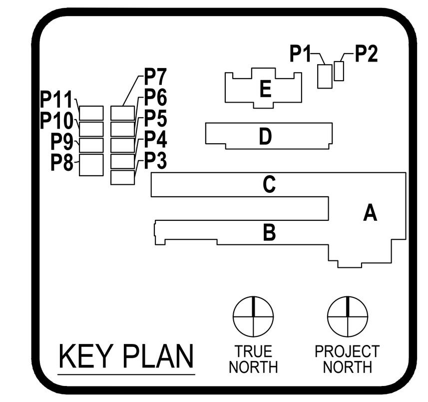
ARCHITECT PBK-WLC, Inc.
PBK-WLC.com
1100 Iron Point Road, Suite 200
Folsom, CA 95630
916-355-9922

CONSULTANT
LEAF ENGINEERS
1100 Iron Point Road, Suite 200
Folsom, CA 95630
916-355-9922
leafengineers.com

GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT



KEY PLAN



CLIENT	
LODI UNIFIED SCHOOL DISTRICT	
PROJECT NUMBER	230216
DATE	04/12/2024
DRAWN BY:	CHKED BY:

REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

FIRE ALARM COVER SHEET

FA0.0

DSA **GL-4**

PROJECT SUBMITTAL GUIDELINE: CALGREEN CODE

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or Publications webpages.

Projects submitted to DSA for review, as a single project or as increments, must comply with the Title 24, Part 11, California Green Building Standards Code (CALGreen).

DSA-SS CALGreen regulatory requirements consists of compliance with the scoping requirements in CALGreen Chapter 3, Section 301.4 and the Nonresidential Mandatory Measures adopted by DSA-SS in Chapter 5. Please refer to the Chapter 5 Matrix Adoption Tables for each Division for the specific Mandatory Measures adopted by DSA-SS.

The measures outlined in CALGreen Chapter 5, Section 5.410.2 for building and site Commissioning and Section 5.410.4 for building and site Testing and Adjusting are *not* mandatory requirements for schools and community colleges; however, portions of these regulations are required by the California Energy Code with which all facilities must comply. For mandatory Commissioning requirements under the California Energy Code, including installation and acceptance testing requirements, refer to Energy Code Section 120.8. Although not adopted by DSA-SS, the additional design measures for Commissioning in CALGreen Section 5.410.2 and the verification measures for Testing and Adjusting under CALGreen Section 5.410.4 are encouraged and recommended.

CALGreen Section 306 Voluntary Measures encourages building practices that improve public health, safety and general welfare by promoting the use of building concepts which minimize the building's impact on the environment, and promote a more sustainable design. Chapter 5 Nonresidential Mandatory Measures that are not adopted as mandatory measures by DSA-SS are voluntary measures recommended and encouraged for the design, construction, verification, and maintenance of non-energy systems. Appendix A5, Divisions A5.1 through A5.5 outline means of achieving enhanced sustainable design and construction by incorporating voluntary measures that exceed the mandatory measures.

Attachment 1 lists the CALGreen Nonresidential Mandatory Measures adopted by DSA-SS. For the complete text, consult the 2019 Title 24, Part 11, California Green Building Standards Code. For Project Submission, check the CALGreen Mandatory Measures that are applicable to and have been incorporated into the Project and submit this Guideline (checklist) with the application.

Attachment 1

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

Division of the State Architect – Structural Safety (DSA-SS)
(CCR, Title 24, Part 11)

CHAPTER 3 – GREEN BUILDING

SECTION 301 – GENERAL

301.4 Mandatory measures for public schools and community colleges. [DSA-SS] New building construction and site work on a new or existing site shall comply with Section 301.4.

301.4.1 Building and site construction on a new site shall comply with Chapter 5 as adopted by DSA-SS.

301.4.2 Work on an existing site shall comply with Section 301.4.2.

301.4.2.1 Newly constructed site work shall comply with Chapter 5 as adopted by DSA-SS.

301.4.2.2 Newly constructed buildings shall comply with Chapter 5 as adopted by DSA-SS and Section 301.4.3.

301.4.2.3 Additions to existing buildings shall comply with Section 301.4.3.

301.4.2.4 Rehabilitated landscape areas shall comply with Sections 5.304.6 and 5.106.12.

301.4.3 Minimum rehabilitated landscape area requirement. A minimum rehabilitated landscape area equal to 75 percent of the footprint area of the building shall comply with Section 5.304.6 and Section 106.12. New buildings or additions to existing buildings less than 1,600 square feet shall not be required to comply with Section 301.4.3.

CHAPTER 5 – NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 – PLANNING AND DESIGN

SECTION 5.106 – SITE DEVELOPMENT

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

☐ **5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

☐ **5.106.4.2.2 Staff bicycle parking.** Provide permanent secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

☐ **5.106.5.3 Electric vehicle (EV) charging. [N]** Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

☐ **5.106.5.3.1 Single charging space requirements. [N]** When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240-volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1 inch.
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-amperee dedicated branch circuit for the future installation of the EVSE.

☐ **5.106.5.3.2 Multiple charging space requirements. [N]** When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-amperee minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

EV charging space calculation. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3	
TOTAL NUMBER OF ACTUAL PARKING SPACES	**NUMBER OF REQUIRED EV CHARGING SPACES**
0 – 9	0
10 – 25	1
26 – 50	2
51 – 75	4
76 – 100	5
101 – 150	7
151 – 200	10
201 and over	6 percent of total [1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

☐ **5.106.5.3.4 [N] Identification.** The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

☐ **5.106.5.3.5 [N] Future charging spaces.** Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

☐ **5.106.8 Light pollution reduction. [N]** Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the *California Energy Code* for Lighting Zones 0 to 4 as defined in Chapter 10, Section 10-114 of the *California Administrative Code*, and
2. Backlight, (B) ratings as defined in Illuminating Engineering Society of North America (IESNA) TM-15-11(*shown in TABLE A-1 in Chapter 8*), and
3. Uplight and Glare ratings as defined in *California Energy Code* (shown in TABLES 130.2-A and 130.2-B in Chapter 8) and
4. Allowable Backlight, Uplight, and Glare (BUG) ratings not exceeding those shown in Table 5.106.8 [N], or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Section 140.7 of the *California Energy Code.*
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the *California Energy Code*, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

Notes:

1. **[N]** See also *California Building Code*, Chapter 12, Section 1205.7 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for Illuminating Engineering Society Technical Memorandum TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the California Energy Code for requirements for additions and alterations.

TABLE 5.106.8 [N]
MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(See CALGreen for TABLE)

☐ **5.106.10 Grading and paving.** Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

☐ **5.106.12 Shade trees. [DSA-SS]** Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

☐ **5.106.12.1 Surface parking areas.** Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50% of the parking area within 15 years.

Exception: The surface parking area covered by solar photovoltaic shade structures, or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

☐ **5.106.12.2 Landscape areas.** Shade trees plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the landscape area within 15 years

Exception: Playfields for organized sport activity are not included in the total area calculation.

☐ **5.106.12.3 Hardscape areas.** Shade trees plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the hardscape area within 15 years.

Exception: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 – ENERGY EFFICIENCY

SECTION 5.201 – GENERAL

☐ **5.201.1 California Energy Code.** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

DIVISION 5.3 – WATER EFFICIENCY AND CONSERVATION

SECTION 5.303 – INDOOR WATER USE

5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

☐ **5.303.3.1 Water closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for Tank-Type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

☐ **5.303.3.2.1 Wall mounted urinals**. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.

☐ **5.303.3.2.2 Floor mounted urinals**. The effective flush volume of floor mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads

☐ **5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for showerheads.

☐ **5.303.3.3.2 Multiple showerheads serving one shower**. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the showerhead shall be designed to allow only one shower outlet to be in operation at one time.

Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

☐ **5.303.3.4.1 Non-residential lavatory faucets.** Non-residential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

☐ **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].

☐ **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle.

☐ **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

☐ **5.303.6 Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 – OUTDOOR WATER USE

5.304.6 Outdoor potable water use in landscape areas. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the Evapotranspiration Adjustment Factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

☐ **5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

☐ **5.304.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.407 – WATER RESISTANCE AND MOISTURE MANAGEMENT

☐ **5.407.1 Weather protection.** Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code,* Section 1402.2 (Weather Protection), manufacturer's installation instructions, or local ordinance, whichever is more stringent.

5.407.2 Moisture control. Employ moisture control measures by the following methods:

☐ **5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

☐ **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

☐ **5.407.2.2.2 Flashing.** Installed flashings integrated with a drainage plane.

SECTION 5.408 – CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

☐ **5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.

2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

☐ **5.408.1.2 Waste management company.** Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

☐ **5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

☐ **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

SECTION 5.410 – BUILDING MAINTENANCE AND OPERATION

☐ **5.410.1 Recycling by occupants.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption of Public Resources Code 42649.82 (a)(2)(A) et seq. will also be exempt from the organics waste portion of this section.

☐ **5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's website.

DIVISION 5.5 ENVIRONMENTAL QUALITY

2. Field verification of on-site product containers.

☐ **5.504.4.4 Carpet systems.** All carpet installed in the building interior shall meet at least one of the following testing and product requirements:

1. Carpet and Rug Institute's Green Label Plus Program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version1.1, February 2010 (also known as CDPH Standard Method V1.1 or *Specification 01350*);
3. NSF/ANSI 140 at the Gold level or higher;
4. Scientific Certifications Systems Sustainable Choice; or
5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database.

☐ **5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program**.**

☐ **5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.

☐ **5.504.4.5 Composite wood products.** Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5.

TABLE 5.504.4.5 – FORMALDEHYDE LIMITS
(See CALGreen for TABLE)

☐ **5.504.4.6 Resilient flooring systems.** For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database; or
4. Products certified under the UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).

☐ **5.504.5.3 Filters.** In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exception: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

SECTION 5.505 – INDOOR MOISTURE CONTROL

☐ **5.505.1 Indoor moisture control.** Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures see Section 5.407.2 of this code.

SECTION 5.506 – INDOOR AIR QUALITY

☐ **5.506.1 Outside air delivery.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements for Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

SECTION 5.507 – ENVIRONMENTAL COMFORT

☐ **5.507.4 Acoustical control.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413 or Outdoor–Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirement of this section and all subsections apply only to new construction.

☐ **5.507.4.1 Exteriors noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:

1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation compatible Land Use Zone (AICUZ) plan.
2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

☐ **5.507.4.1.1 Noise exposure where noise contours are not readily available.** Buildings exposed to a noise level of 65 $dB_{L_{eq}}$-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

☐ **5.507.4.2 Performance method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq} -1Hr) of 50 dBA in occupied areas during any hour of operation.

☐ **5.507.4.2.1 Site features.** Exterior features such as sound wall or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

☐ **5.507.4.2.2. Documentation of compliance.** An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

☐ **5.507.4.3 Interior sound transmission.** Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC rating may be found at the California Office of Noise Control: www. https://www.tsib.org/files/STC_IIC_Ratings.pdf

SECTION 5.508 – OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

☐ **5.508.1.1 Chlorofluorocarbons (CFCs).** Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

SECTION 5.504.1 – POLLUTANT CONTROL

☐ **5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

☐ **5.504.4.1 Adhesives, sealants, and caulks.** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 – ADHESIVE VOC LIMIT
(See CALGreen for TABLE)

TABLE 5.504.4.2 – SEALANT VOC LIMIT
(See CALGreen for TABLE)

☐ **5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3, shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

TABLE 5.504.4.3 – VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
(See CALGreen for TABLE)

☐ **5.504.4.3.1 Aerosol paints and coatings.** Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification.

A DSA Project Submittal Guideline is a compilation of recommendations based on code, referenced standards, DSA bulletin/policy/procedure/interpretation documents, and DSA practices. These guidelines are intended to give the design profession helpful information and insight into DSA's project application, submittal, and review processes. Guidelines are provided by DSA in support of DSA's goals of providing stakeholders information they need to facilitate working smoothly with DSA, and to help standardize practices among the four DSA Regional Offices.

Compliance with a Guideline does not assure that a project is complete or that it adheres to the requirements of the California Building Standards Code (Title 24 of the California Code of Regulations) or all DSA requirements. Additional information may be required, depending on project complexity or site conditions. For complete submittal requirements see forms *DSA 1: Application for Approval of Plans and Specifications* and *DSA 3: Project Submittal Checklist*.

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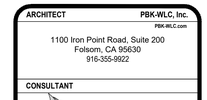
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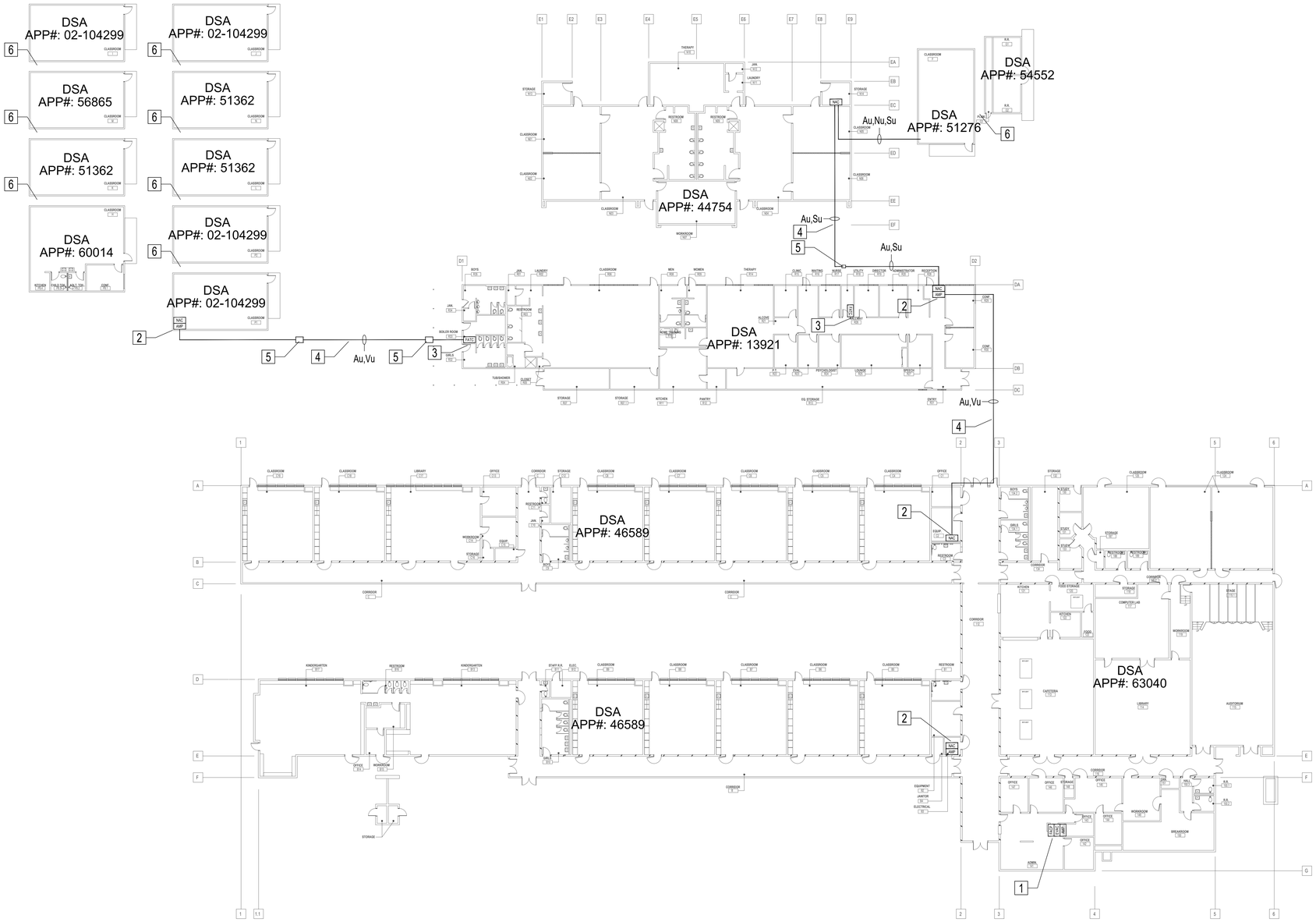
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CAL GREEN CHECKLIST

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1 FIRE ALARM SITE PLAN
SCALE: 1" = 20'-0"

FIRE ALARM SHEET NOTES

1. LOCATION OF EXISTING FIRE ALARM CONTROL PANEL. INSTALL NEW EMERGENCY VOICE/FIRE ALARM CONTROL PANEL IN SAME LOCATION.
2. LOCATION OF NEW NOTIFICATION APPLIANCE POWER SUPPLY AND OR AMPLIFIER.
3. LOCATION OF NEW FIRE ALARM TERMINAL CABINET.
4. EXISTING UNDERGROUND CONDUIT PATHWAY SYSTEM. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH IN.
5. EXISTING UNDERGROUND PULL BOX. FIELD VERIFY LOCATION PRIOR TO ROUGH IN.
6. PATHWAY BETWEEN PORTABLE BUILDINGS TO BE LIQUID TIGHT, FLEXIBLE, METALLIC CONDUIT (LFMC) WITH WEATHER PROOF NEMA JUNCTION BOXES.

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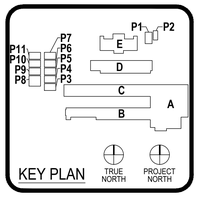
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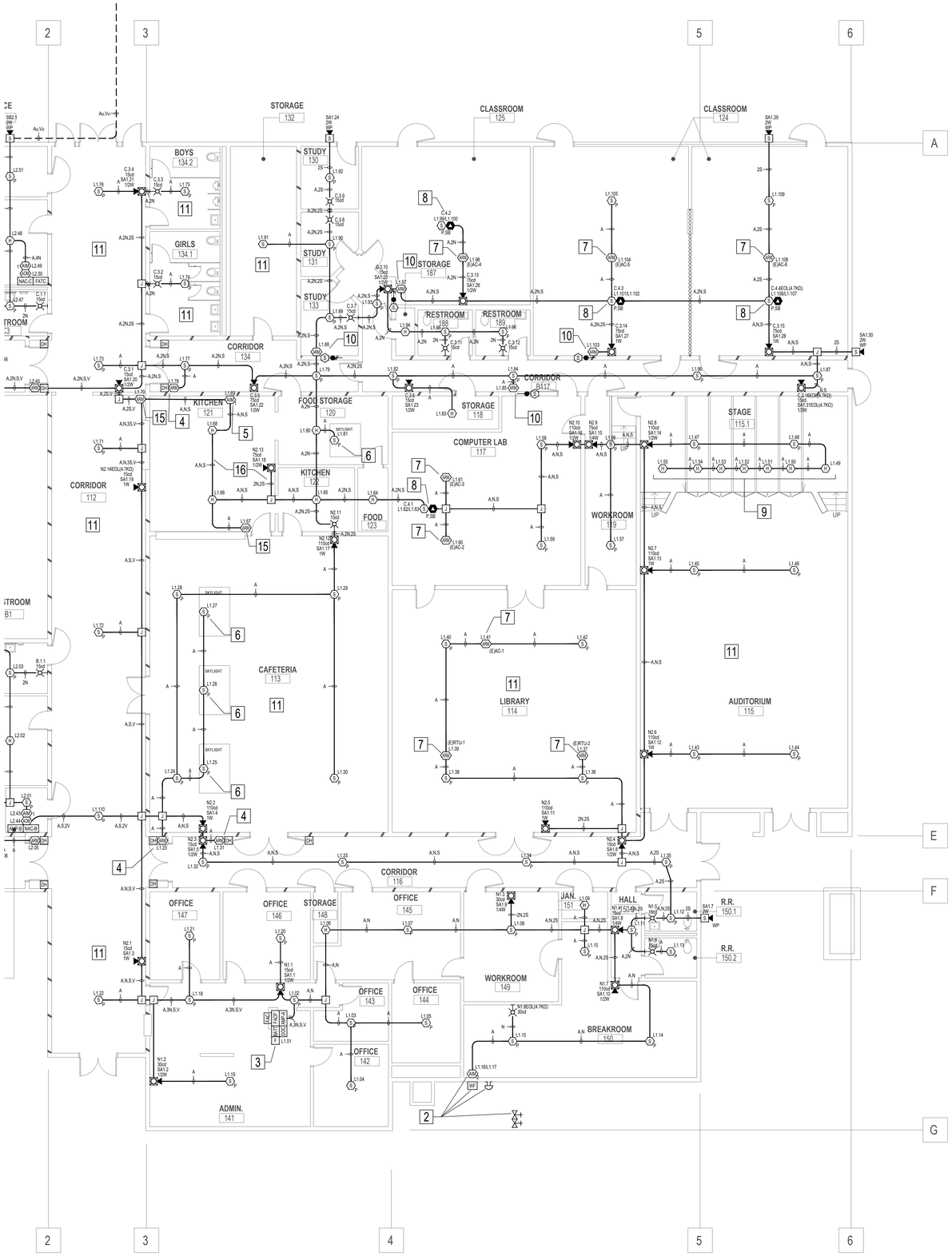
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FIRE ALARM SITE PLAN

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FIRE ALARM SHEET NOTES

1. BUILDING A SCOPE OF WORK IS FULLY SPRINKLERED AND INSTALLED UNDER PREVIOUS PERMIT AND APPLICATION NUMBER. REFERENCE SHEET FA1.0 FOR APP NUMBER. NO ABOVE CEILING OR NON-COMBUSTIBLE SPACE HEAT DETECTORS ARE TO BE INSTALLED. (REFERENCE DSA GL-2, §1.2.7)
2. EXISTING FIRE SPRINKLER TAMPER SWITCHES, WATER FLOW SWITCH AND BELL ARE TO REMAIN AS CURRENTLY CONFIGURED. FIELD VERIFY SERVICEABILITY AND CONDITION OF SWITCHES AND REPLACE IF NO LONGER SERVICEABLE.
3. INSTALL NEW EMERGENCY VOICE/FIRE ALARM COMMUNICATION CONTROL PANEL, AMPLIFIER, MICROPHONE, BATTERY CABINET, CELLULAR COMMUNICATOR, DOCUMENT BOX AND MANUAL PULL STATION IN THIS LOCATION.
4. EXISTING MAGNETIC DOOR HOLDERS AND ROLL UP DOOR CONTROLLER TO REMAIN AS CURRENTLY CONFIGURED. INSTALL NEW CONTROL RELAY FOR DOOR RELEASE ON ALARM. FIELD VERIFY SERVICEABILITY AND CONDITION OF EXISTING DOOR HOLDERS AND RELPACE IF NO LONGER SERVICEABLE.
5. INSTALL MONITOR MODULE TO MONITOR EXISTING HOOD EXTINGUISHING SYSTEM. EXISTING EXTINGUISHING SYSTEM IS TO REMAIN AS CURRENTLY CONFIGURED AND IS NOT IN THIS SCOPE OF WORK.
6. INSTALL SMOKE DETECTOR IN CEILING SKYLIGHT.
7. INSTALL RELAY MODULE FOR HVAC UNIT SHUT DOWN. SHUT DOWN TO BE ACTUATED IN ACCORDANCE WITH CMC §609.1 EXCEPTION (1).
8. INSTALL SMOKE/CARBON MONOXIDE DETECTION IN CLASSROOMS WITH FUEL BURNING APPLIANCES IN ACCORDANCE WITH CFC §915.2.3.
9. INSTALL HEAT DETECTION IN THE BELOW STAGE STORAGE SPACES. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ACCESS HATCHES WHERE INACCESSIBLE SPACES EXIST.
10. EXISTING FIRE SMOKE DAMPERS (FSD) ARE TO REMAIN AS CURRENTLY CONFIGURED. INSTALL NEW RELAY MODULE FOR FSD CONTROL.
11. THIS AREA CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF STRUCTURE AND SMOKE OR HEAT DETECTION IS TO BE INSTALLED ON THE CEILING ONLY. (REFERENCE CFC §907.2.3.6.1)
12. IN AREAS WITH SUSPENDED CEILINGS OR ABOVE CEILING SPACE FIRE ALARM WIRE SHALL BE ALLOWED TO BE OPEN RUN IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. (REFERENCE SHEET FA0.0 FIRE ALARM GENERAL NOTES, NOTE #18)
13. IN AREAS WHERE SURFACE MOUNTED WIRE MOLDING IS USED FOR FIRE ALARM CIRCUITS, REMOVE EXISTING WIRE MOLD AND REPLACE WITH NEW IN ACCORDANCE WITH NOTE #18 ON SHEET FA0.0. COLOR TO BE IVORY AND IS DISTRICT STANDARD.
14. IN AREAS WHERE EXISTING FIRE ALARM CONDUIT AND ELECTRICAL BOXES ARE LOCATED, FIELD VERIFY CONDITION AND SERVICEABILITY OF THE EXISTING CONDUIT AND BOXES. REPLACE ANY WORN, DAMAGED OR UNSERVICEABLE CONDUIT AND OR BOXES WITH NEW. REUSE EXISTING FIRE ALARM CONDUIT RACEWAYS AND BOXES WHERE APPLICABLE AFTER FIELD VERIFICATION.
15. INSTALL RELAY MODULE FOR ROLL UP FIRE DOOR ACTIVATION ON ALARM.
16. INSTALL HEAT DETECTION IN KITCHEN AREA DUE TO AMBIENT CONDITIONS (COOKING SMOKE, STEAM, ETC.) IN ACCORDANCE WITH CFC §907.4.3.

1 FIRE ALARM FLOOR PLAN - BUILDING A
SCALE: 1/8" = 1'-0"

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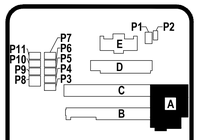
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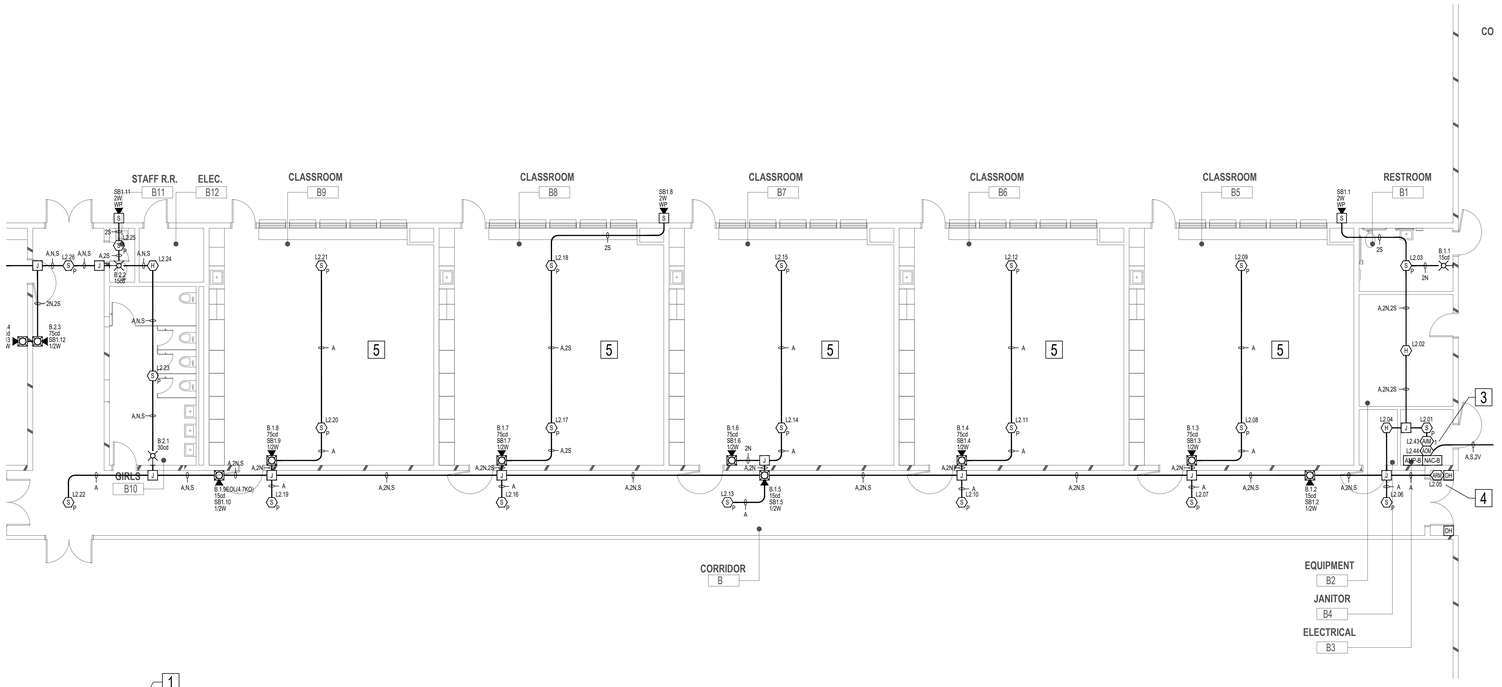
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FIRE ALARM FLOOR PLAN BUILDING A

FA1.1



1 FIRE ALARM FLOOR PLAN - BUILDING B
SCALE: 1/8" = 1'-0"

2 FIRE ALARM FLOOR PLAN - BUILDING B
SCALE: 1/8" = 1'-0"

FIRE ALARM SHEET NOTES

1. BUILDING B SCOPE OF WORK DOES NOT CONTAIN FIRE SPRINKLERS AND THE CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF STRUCTURE. HEAT AND SMOKE DETECTION IS TO BE INSTALLED ON THE CEILING ONLY. (REFERENCE CFC §907.2.3.6.1)
2. THIS AREA CONTAINS A SUSPENDED TILE CEILING AT 9' A.F.F. INSTALL HEAT DETECTION IN ABOVE CEILING SPACE(S).
3. INSTALL NEW AUDIO AMPLIFIER, NOTIFICATION POWER SUPPLY, CONTROL MODULE AND MONITOR MODULE IN THIS LOCATION. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.
4. EXISTING MAGNETIC DOOR HOLDERS AND ROLL UP DOOR CONTROLLER TO REMAIN AS CURRENTLY CONFIGURED. INSTALL NEW CONTROL RELAY FOR DOOR RELEASE ON ALARM. FIELD VERIFY SERVICEABILITY AND CONDITION OF EXISTING DOOR HOLDERS AND REPLACE IF NO LONGER SERVICEABLE.
5. IN AREAS WHERE SURFACE MOUNTED WIRE MOLDING IS USED FOR FIRE ALARM CIRCUITS, REMOVE EXISTING WIRE MOLD AND REPLACE WITH NEW IN ACCORDANCE WITH NOTE #18 ON SHEET FA0.0. COLOR TO BE IVORY AND IS DISTRICT STANDARD.

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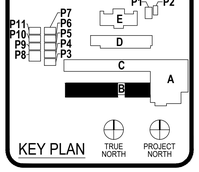
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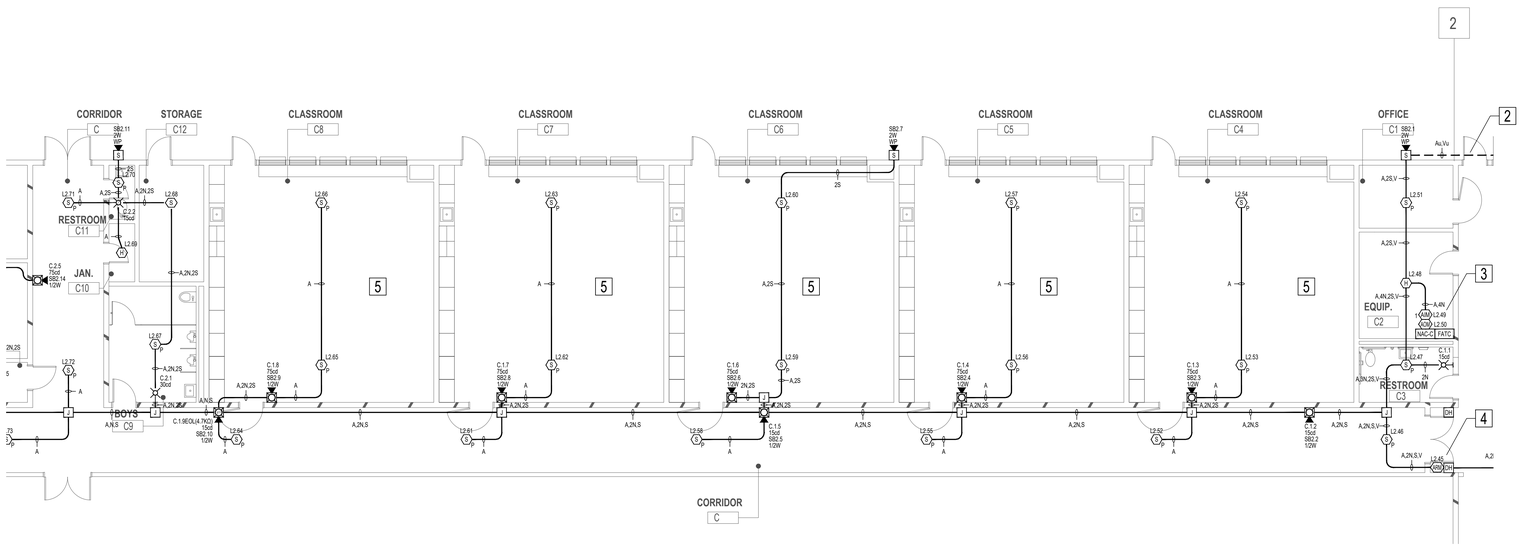
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FIRE ALARM FLOOR PLAN BUILDING B

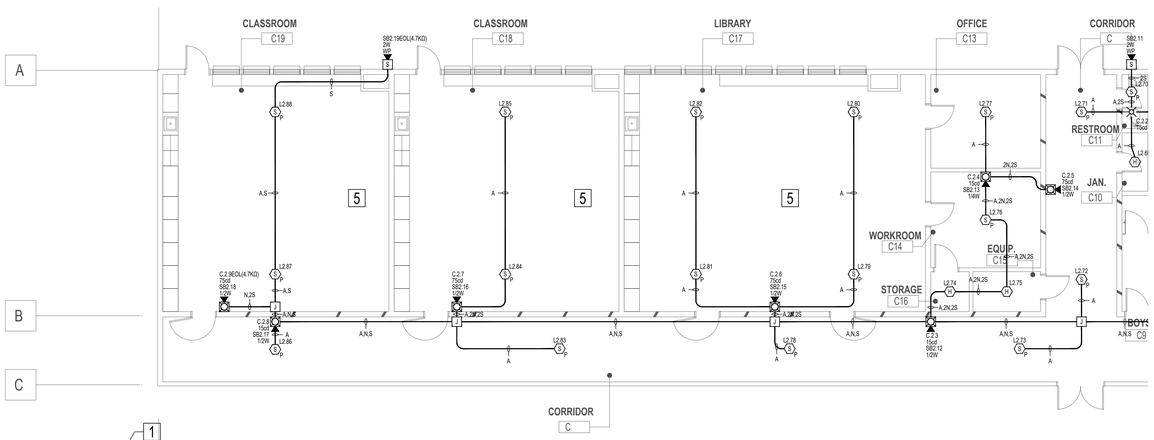
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A6.01 - EXTERIOR ELEVATIONS



1 FIRE ALARM FLOOR PLAN - BUILDING C
SCALE: 1/8" = 1'-0"



2 FIRE ALARM FLOOR PLAN - BUILDING C
SCALE: 1/8" = 1'-0"

FIRE ALARM SHEET NOTES

1. BUILDING C SCOPE OF WORK DOES NOT CONTAIN FIRE SPRINKLERS AND THE CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF STRUCTURE. HEAT AND SMOKE DETECTION IS TO BE INSTALLED ON THE CEILING ONLY. (REFERENCE CFC §907.2.3.6.1)
2. UNDERGROUND CONDUIT AND WIRE TO BUILDING D. FIELD VERIFY PRIOR TO ROUGH IN.
3. INSTALL NEW FIRE ALARM TERMINAL CABINET, NOTIFICATION POWER SUPPLY, CONTROL MODULE AND MONITOR MODULE IN THIS LOCATION. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.
4. EXISTING MAGNETIC DOOR HOLDERS AND ROLL UP DOOR CONTROLLER TO REMAIN AS CURRENTLY CONFIGURED. INSTALL NEW CONTROL RELAY FOR DOOR RELEASE ON ALARM. FIELD VERIFY SERVICEABILITY AND CONDITION OF EXISTING DOOR HOLDERS AND REPLACE IF NO LONGER SERVICEABLE.
5. IN AREAS WHERE SURFACE MOUNTED WIRE MOLDING IS USED FOR FIRE ALARM CIRCUITS, REMOVE EXISTING WIRE MOLD AND REPLACE WITH NEW IN ACCORDANCE WITH NOTE #18 ON SHEET FA0.0. COLOR TO BE IVORY AND IS DISTRICT STANDARD.

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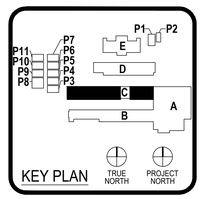
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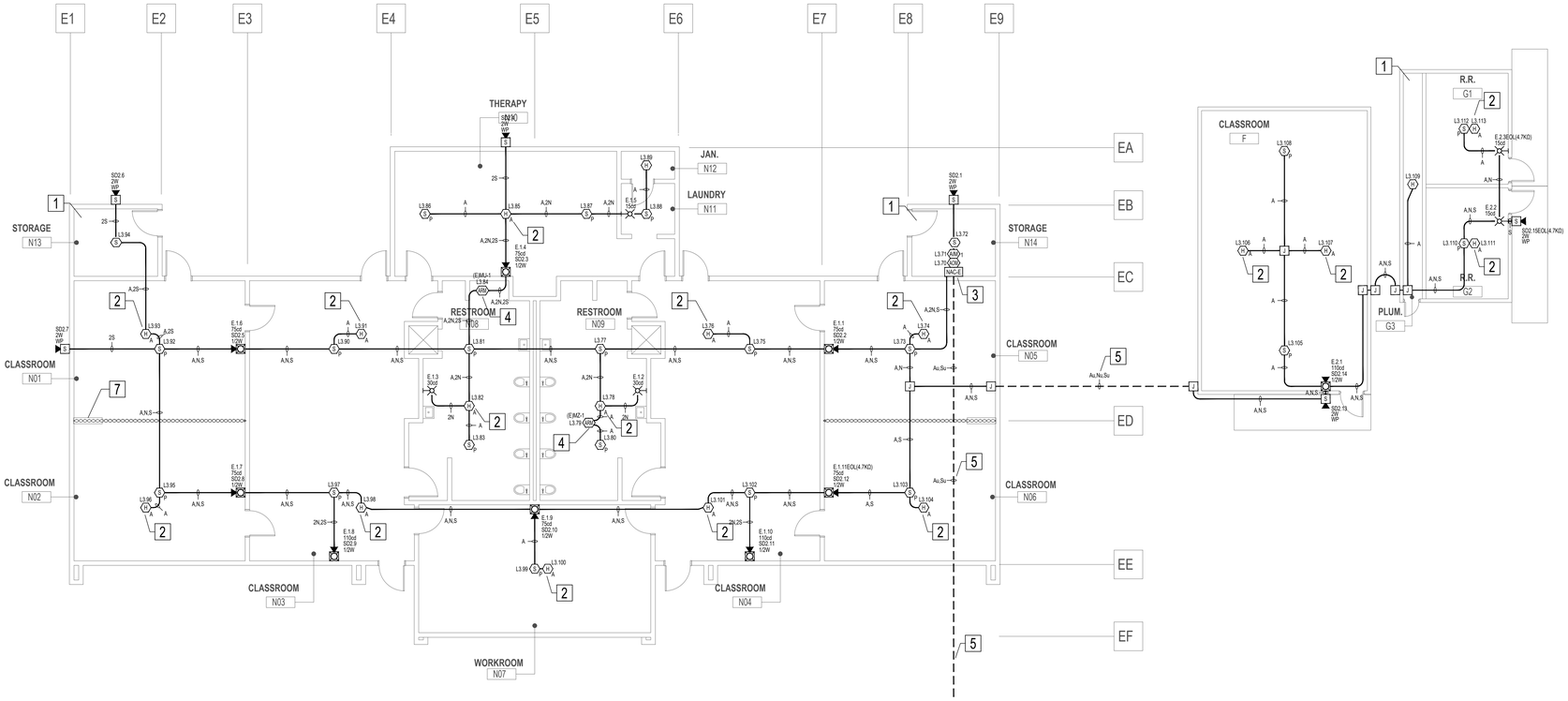
FIRE ALARM FLOOR PLAN BUILDING C

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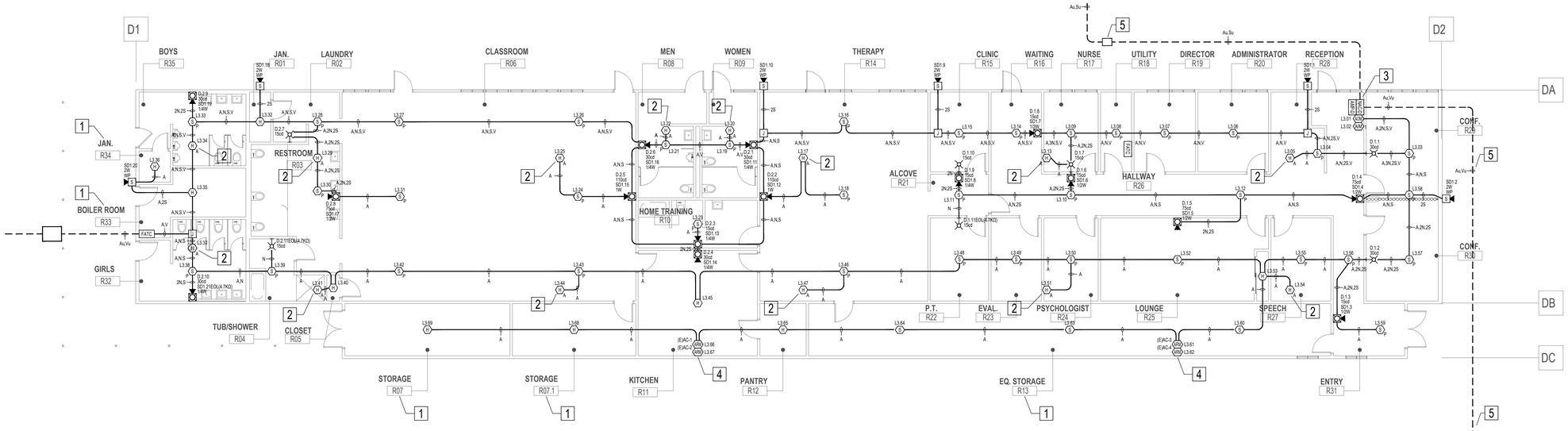
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A6.01 - EXTERIOR ELEVATIONS



1 FIRE ALARM FLOOR PLAN - BUILDING E
SCALE: 1/8" = 1'-0"



2 FIRE ALARM FLOOR PLAN - BUILDING D
SCALE: 1/8" = 1'-0"

FIRE ALARM SHEET NOTES

1. THIS AREA(S) CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE ROOF STRUCTURE. HEAT AND SMOKE DETECTION IS TO BE INSTALLED ON THE CEILING ONLY. (REFERENCE CFC §907.2.3.6.1)
2. INSTALL HEAT DETECTION IN ABOVE CEILING SPACE(S).
3. INSTALL NEW AUDIO AMPLIFIER, NOTIFICATION POWER SUPPLY, CONTROL MODULE AND MONITOR MODULE IN THIS LOCATION. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.
4. INSTALL RELAY MODULE FOR HVAC UNIT SHUT DOWN. SHUT DOWN TO BE ACTUATED IN ACCORDANCE WITH CMC §609.1 EXCEPTION (1).
5. UNDERGROUND CONDUIT AND WIRE AND PULL BOXES. FIELD VERIFY PRIOR TO ROUGH IN.
6. IN AREAS WHERE SURFACE MOUNTED WIRE MOLDING IS USED FOR FIRE ALARM CIRCUITS, REMOVE EXISTING WIRE MOLD AND REPLACE WITH NEW IN ACCORDANCE WITH NOTE #18 ON SHEET FA0.0. COLOR TO BE IVORY AND IS DISTRICT STANDARD.
7. ACCORDION PARTITION WALL TO REMAIN.

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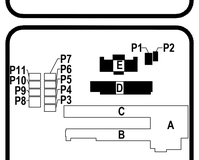
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GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
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LODI UNIFIED SCHOOL DISTRICT



REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E 19817
ELECTRICAL
STATE OF CALIFORNIA
11/28/23

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
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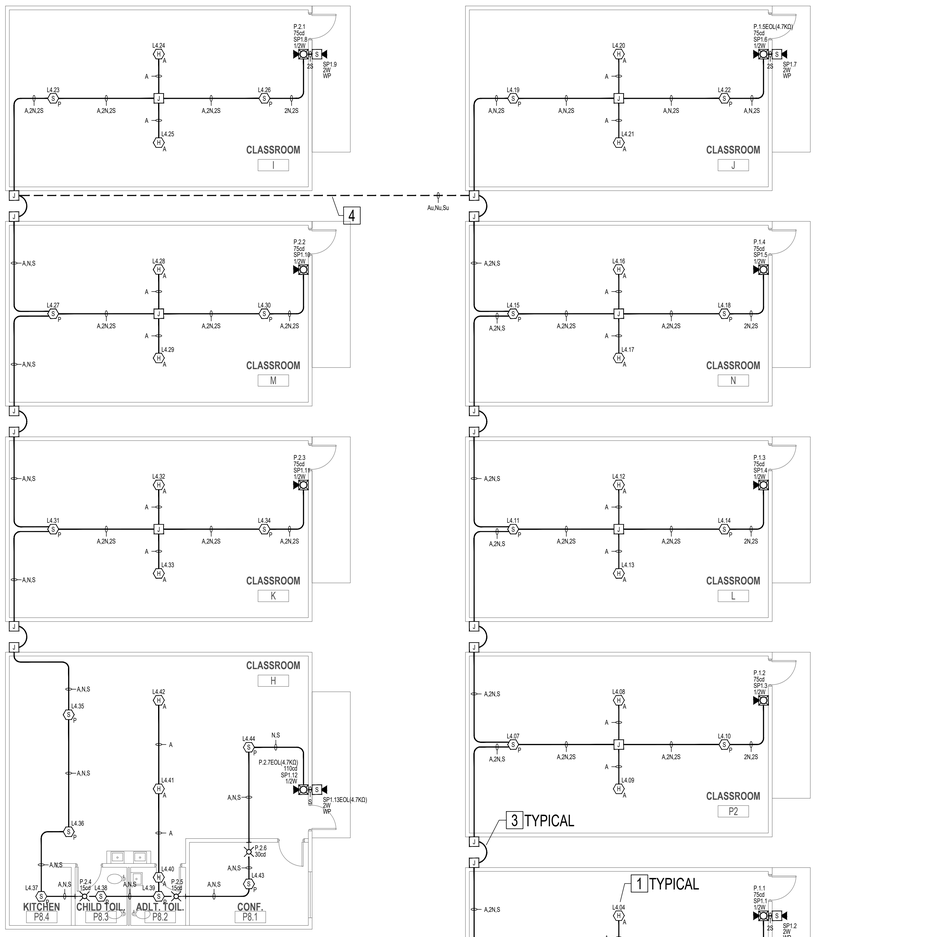
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FIRE ALARM FLOOR PLAN BUILDINGS D & E

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FIRE ALARM SHEET NOTES

1. INSTALL HEAT DETECTION IN ABOVE CEILING SPACE(S).
2. INSTALL NEW AUDIO AMPLIFIER, NOTIFICATION POWER SUPPLY, CONTROL MODULE AND MONITOR MODULE IN THIS LOCATION. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENTS.
3. PATHWAY BETWEEN PORTABLE BUILDINGS TO BE LIQUID TIGHT, FLEXIBLE, METALLIC CONDUIT (LFMC) WITH WEATHER PROOF NEMA JUNCTION BOXES.
4. UNDERGROUND CONDUIT AND WIRE AND PULL BOXES. FIELD VERIFY PRIOR TO ROUGH IN.
5. INSTALL SURGE PROTECTION IN ACCORDANCE WITH NFPA 72, NFPA 70, CEC AND CFC.
6. IN AREAS WHERE SURFACE MOUNTED WIRE MOLDING IS USED FOR FIRE ALARM CIRCUITS, REMOVE EXISTING WIRE MOLD AND REPLACE WITH NEW IN ACCORDANCE WITH NOTE #18 ON SHEET FA0.0. COLOR TO BE IVORY AND IS DISTRICT STANDARD.

1 FIRE ALARM FLOOR PLAN - WEST PORTABLE CLASSROOM BUILDINGS
SCALE: 1/8" = 1'-0"

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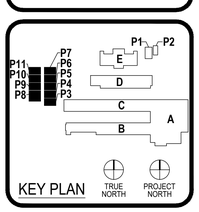
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LODI UNIFIED SCHOOL DISTRICT





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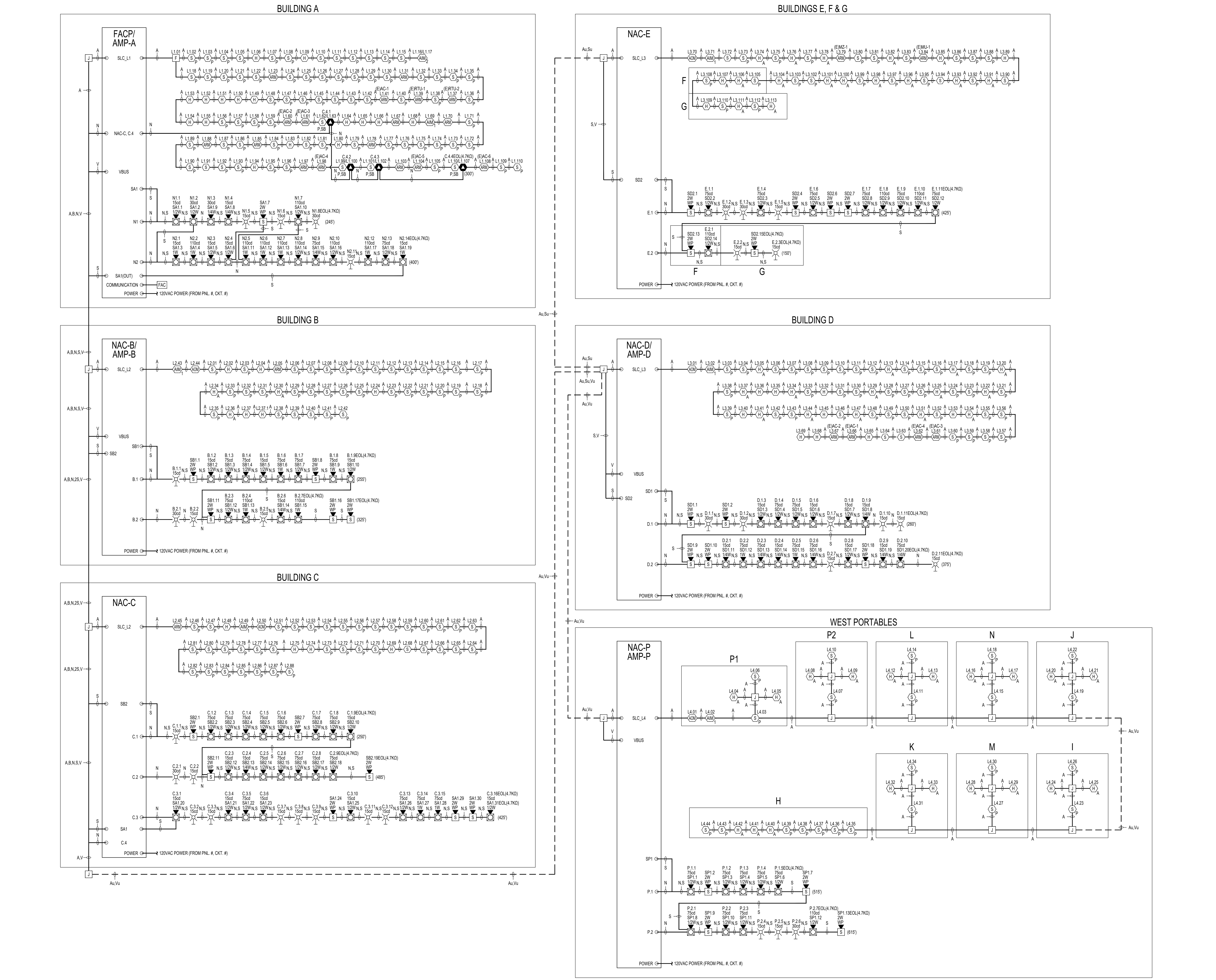
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FIRE ALARM FLOOR PLAN WEST PORTABLE CLASSROOM BUILDINGS

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1 FIRE ALARM RISER DIAGRAM
SCALE: NO SCALE

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LODI UNIFIED SCHOOL DISTRICT

KEY PLAN
P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 E D C A B
TRUE NORTH
PROJECT NORTH

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
Exp. 3-31-26
ELECTRICAL
STATE OF CALIFORNIA

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LODI UNIFIED SCHOOL DISTRICT	
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FIRE ALARM RISER DIAGRAM

FA2.0

A6.01 - EXTERIOR ELEVATIONS

E-3 FACP
BATTERY CALCULATIONS FOR 24 HOUR STANDBY
(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
E-3	E-3 SERIES FACP/EVAC	1	0.11100	0.11100	0.24300	0.24300
DACT-E3	DIGITAL COMMUNICATION CARD	1	0.01800	0.01800	0.01800	0.01800
LCD-SLP	LCD KEYPAD DISPLAY	1	0.03000	0.03000	0.06500	0.06500
ILI-MB-E3	INTELLIGENT LOOP INTERFACE-MAIN BOARD	1	0.15000	0.15000	0.15000	0.15000
ILI-S-E3	INTELLIGENT LOOP INTERFACE-EXPANSION BOARD	1	0.15000	0.15000	0.15000	0.15000
ANU-48	LED DRIVER MODULE	1	0.00300	0.00300	0.05000	0.05000
ASM-16	ADDRESSABLE SWITCH MODULE	1	0.01100	0.01100	0.15500	0.15500
PM-9	POWER SUPPLY	1	0.00030	0.00030	0.05000	0.05000
AMM-4F	SINGLE ADDRESSABLE INPUT MODULE	6	0.00038	0.00225	0.00500	0.03000
AMM-2IF	DUAL ADDRESSABLE INPUT MODULE	1	0.00075	0.00075	0.00097	0.00097
AOM-2RF	ADDRESSABLE RELAY MODULE	25	0.00038	0.00938	0.00255	0.06375
AOM-2SF	ADDRESSABLE CONTROL MODULE	5	0.00375	0.01875	0.00650	0.03250
ASD-PL3	ADDRESSABLE SMOKE DETECTOR	215	0.00020	0.04300	0.00020	0.04300
MCS-COF3	ADDRESSABLE SMOKE/CO DETECTOR	4	0.00020	0.00080	0.20000	0.80000
ATD-L3H	ADDRESSABLE HEAT DETECTOR	93	0.00020	0.01860	0.20000	18.60000
MS-7AF	ADDRESSABLE DOUBLE ACTION PULL STATION	1	0.00030	0.00030	0.00300	0.00300
B200S-WH	ADDRESSABLE SOUNDER BASE	4	0.00005	0.00020	0.03500	0.14000
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	5	0.09100	0.45500	0.14500	0.72500
AM-50/70	50 WATT AMPLIFIER	4	0.08600	0.34400	2.20000	8.80000
			PANEL TOTALS	1.366		30.119
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	**FIELD NOTIFICATION APPLIANCE CIRCUITS**					
N1	NOTIFICATION APPLIANCE CIRCUIT -N1	1	0.000	0.000	0.509	0.509
N2	NOTIFICATION APPLIANCE CIRCUIT -N2	1	0.000	0.000	1.465	1.465
			NAC TOTALS	0.000		1.974
			OVERALL TOTALS	1.366		32.093

TOTAL ALARM AMPS 32.093 X 15 MINS= 8.023
TOTAL STANDBY AMPS 1.366 X 24 HOURS= 32.792
5 MINS = 0.083
15 MINS = 0.250
TOTAL AMP HOURS REQUIRED= 40.815
RECOMMENDED MINIMUM BATTERY SIZE= 55.0 AMP HOURS
LESS 25% DERATING FACTOR= 41.3 AMP HOURS
SPARE AMP HOURS 0.4 AMP HOURS

NOTIFICATION CIRCUIT - N1 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	2					0.043	0.086	
SPSRL-30	WALL SPKR/STROBE @ 30cd	2					0.063	0.126	
SPSRL-110	WALL SPKR/STROBE @ 110cd	1					0.148	0.148	
SRL-15	WALL STROBE @ 15cd	2					0.043	0.086	
SRL-30	WALL STROBE @ 30cd	1					0.063	0.063	
				245		0.946		0.509	0.481

TOTAL AMPS: 0.509 TOTAL % DROP: 2.36% TOTAL V-DROP: 0.481
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.92 VDC

NOTIFICATION CIRCUIT - N2 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	4					0.043	0.172	
SPSRL-75	WALL SPKR/STROBE @ 75cd	2					0.107	0.214	
SPSRL-110	WALL SPKR/STROBE @ 110cd	7					0.148	1.036	
SRL-15	WALL STROBE @ 15cd	1					0.043	0.043	
				400		1.544		1.465	2.262

TOTAL AMPS: 1.465 TOTAL % DROP: 11.09% TOTAL V-DROP: 2.262
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 18.14 VDC

HW-TG7FS-A FAC
BATTERY CALCULATIONS FOR 24 HOUR STANDBY
(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HW-TG7FS-A	CELLULAR COMMUNICATOR	1	0.06000	0.06000	0.25000	0.25000
			PANEL TOTALS	0.060		0.250
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	**FIELD NOTIFICATION APPLIANCE CIRCUITS**					
			NAC TOTALS	0.000		0.000
			OVERALL TOTALS	0.060		0.250

TOTAL ALARM AMPS 0.250 X 15 MINS= 0.063
TOTAL STANDBY AMPS 0.060 X 24 HOURS= 1.440
5 MINS = 0.083
15 MINS = 0.250
TOTAL AMP HOURS REQUIRED= 1.503
RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 3.7 AMP HOURS

Global Project Values:
Project Name: G.W.E.S. Standby Hours: 24
Project ID: 230216 Alarm Mins: 15
Prepared By: C. YANEZ Derating 1.25
Date: 8/22/2023

Panel ID: AMP-A Model: AM-50/70 Audio Amplifier
Location: ADMIN OFFICE

Ckt.#	Circuit Name	Qty	Current Draw Standby	Alarm
SA1	SPKR CKT A	1	0.086	2.200
			0.000	0.000
			0.000	0.000
Watts	Enter Number of Watts	25.25	0.000	1.136
	Total Standby Current (AMPS)		0.086	3.336
	Standby Time In Hours		24	0.250
	Total Standby AH Required		2.064	0.834
	Total Combined AH Required		2.90	
	Multiply By The Derating Factor		1.25	
	Minimum Battery AmpHours Required		3.62	

Global Project Values:
Project Name: G.W.E.S. Standby Hours: 24
Project ID: 230216 Alarm Mins: 15
Prepared By: C. YANEZ Derating 1.25
Date: 8/22/2023

Panel ID: AMP-B Model: AM-50/70 Audio Amplifier
Location: BLDG. B

Ckt.#	Circuit Name	Qty	Current Draw Standby	Alarm
SB1	SPKR CKT 1	1	0.086	2.200
SB2	SPKR CKT 2	1	0.086	2.200
			0.000	0.000
Watts	Enter Number of Watts	33.05	0.000	1.487
	Total Standby Current (AMPS)		0.172	5.887
	Standby Time In Hours		24	0.250
	Total Standby AH Required		4.128	1.472
	Total Combined AH Required		5.60	
	Multiply By The Derating Factor		1.25	
	Minimum Battery AmpHours Required		7.00	

Global Project Values:
Project Name: G.W.E.S. Standby Hours: 24
Project ID: 230216 Alarm Mins: 15
Prepared By: C. YANEZ Derating 1.25
Date: 8/22/2023

Panel ID: AMP-D Model: AM-50/70 Audio Amplifier
Location: BLDG. D

Ckt.#	Circuit Name	Qty	Current Draw Standby	Alarm
SD1	SPKR CKT 1	1	0.086	2.200
SD2	SPKR CKT 2	1	0.086	2.200
			0.000	0.000
Watts	Enter Number of Watts	33.2	0.000	1.494
	Total Standby Current (AMPS)		0.172	5.894
	Standby Time In Hours		24	0.250
	Total Standby AH Required		4.128	1.474
	Total Combined AH Required		5.60	
	Multiply By The Derating Factor		1.25	
	Minimum Battery AmpHours Required		7.00	

Global Project Values:
Project Name: G.W.E.S. Standby Hours: 24
Project ID: 230216 Alarm Mins: 15
Prepared By: C. YANEZ Derating 1.25
Date: 8/22/2023

Panel ID: AMP-P Model: AM-50/70 Audio Amplifier
Location: CLASSROOM P-1

Ckt.#	Circuit Name	Qty	Current Draw Standby	Alarm
SP1	SPKR CKT 1	1	0.086	2.200
			0.000	2.200
			0.000	0.000
Watts	Enter Number of Watts	12.5	0.000	0.563
	Total Standby Current (AMPS)		0.086	4.963
	Standby Time In Hours		24	0.250
	Total Standby AH Required		2.064	1.241
	Total Combined AH Required		3.30	
	Multiply By The Derating Factor		1.25	
	Minimum Battery AmpHours Required		4.13	

HFP24S8 NAC-B
BATTERY CALCULATIONS FOR 24 HOUR STANDBY
(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	**FIELD NOTIFICATION APPLIANCE CIRCUITS**					
N1	NOTIFICATION APPLIANCE CIRCUIT -B.1	1	0.000	0.000	0.707	0.707
N2	NOTIFICATION APPLIANCE CIRCUIT -B.2	1	0.000	0.000	0.595	0.595
			NAC TOTALS	0.000		1.302
			OVERALL TOTALS	0.091		1.447

TOTAL ALARM AMPS 1.447 X 15 MINS= 0.362
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083
15 MINS = 0.250
TOTAL AMP HOURS REQUIRED= 2.546
RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.7 AMP HOURS

NOTIFICATION CIRCUIT - B.1 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	3					0.043	0.129	
SPSRL-75	WALL SPKR/STROBE @ 75cd	5					0.107	0.535	
SRL-15	WALL STROBE @ 15cd	1					0.043	0.043	
				255		0.984		0.707	0.696

TOTAL AMPS: 0.707 TOTAL % DROP: 3.41% TOTAL V-DROP: 0.696
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.70 VDC

NOTIFICATION CIRCUIT - B.2 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	1					0.043	0.043	
SPSRL-75	WALL SPKR/STROBE @ 75cd	1					0.107	0.107	
SPSRL-110	WALL SPKR/STROBE @ 110cd	2					0.148	0.296	
SRL-15	WALL STROBE @ 15cd	2					0.043	0.086	
SRL-30	WALL STROBE @ 30cd	1					0.063	0.063	
				325		1.255		0.595	0.746

TOTAL AMPS: 0.595 TOTAL % DROP: 3.66% TOTAL V-DROP: 0.746
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.65 VDC

HFP24S8 NAC-C
BATTERY CALCULATIONS FOR 24 HOUR STANDBY
(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	**FIELD NOTIFICATION APPLIANCE CIRCUITS**					
N1	NOTIFICATION APPLIANCE CIRCUIT -C.1	1	0.000	0.000	0.835	0.835
N2	NOTIFICATION APPLIANCE CIRCUIT -C.2	1	0.000	0.000	0.663	0.663
N3	NOTIFICATION APPLIANCE CIRCUIT -C.3	1	0.000	0.000	0.944	0.944
N4	NOTIFICATION APPLIANCE CIRCUIT -C.4	1	0.000	0.000	0.140	0.140
			NAC TOTALS	0.000		2.582
			OVERALL TOTALS	0.091		2.727

TOTAL ALARM AMPS 2.727 X 15 MINS= 0.682
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083
15 MINS = 0.250
TOTAL AMP HOURS REQUIRED= 2.866
RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.4 AMP HOURS

NOTIFICATION CIRCUIT - C.1 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	1					0.043	0.043	
SPSRL-75	WALL SPKR/STROBE @ 75cd	7					0.107	0.749	
SRL-15	WALL STROBE @ 15cd	1					0.043	0.043	
				250		0.965		0.835	0.806

TOTAL AMPS: 0.835 TOTAL % DROP: 3.95% TOTAL V-DROP: 0.806
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.59 VDC

NOTIFICATION CIRCUIT - C.2 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	3					0.043	0.129	
SPSRL-75	WALL SPKR/STROBE @ 75cd	4					0.107	0.428	
SRL-15	WALL STROBE @ 15cd	1					0.043	0.043	
SRL-30	WALL STROBE @ 30cd	1					0.063	0.063	
				485		1.872		0.663	1.241

TOTAL AMPS: 0.663 TOTAL % DROP: 6.08% TOTAL V-DROP: 1.241
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.16 VDC

NOTIFICATION CIRCUIT - C.3 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	5					0.043	0.215	
SPSRL-75	WALL SPKR/STROBE @ 75cd	4					0.107	0.428	
SRL-15	WALL STROBE @ 15cd	7					0.043	0.301	
				425		1.641		0.944	1.549

TOTAL AMPS: 0.944 TOTAL % DROP: 7.59% TOTAL V-DROP: 1.549
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 18.85 VDC

NOTIFICATION CIRCUIT - C.4 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
B200S-WH	SOUNDER BASE	4					0.035	0.140	
				300		1.158		0.140	0.162

TOTAL AMPS: 0.14 TOTAL % DROP: 0.79% TOTAL V-DROP: 0.162
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 20.24 VDC

HFP24S8 NAC-D
BATTERY CALCULATIONS FOR 24 HOUR STANDBY
(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	**FIELD NOTIFICATION APPLIANCE CIRCUITS**					
N1	NOTIFICATION APPLIANCE CIRCUIT -D.1	1	0.000	0.000	0.641	0.641
N2	NOTIFICATION APPLIANCE CIRCUIT -D.2	1	0.000	0.000	0.793	0.793
			NAC TOTALS	0.000		1.434
			OVERALL TOTALS	0.091		1.579

TOTAL ALARM AMPS 1.579 X 15 MINS= 0.395
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083
15 MINS = 0.250
TOTAL AMP HOURS REQUIRED= 2.579
RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.7 AMP HOURS

NOTIFICATION CIRCUIT - D.1 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	4					0.043	0.172	
SPSRL-75	WALL SPKR/STROBE @ 75cd	2					0.107	0.214	
SRL-15	WALL STROBE @ 15cd	3					0.043	0.129	
SRL-30	WALL STROBE @ 30cd	2					0.063	0.126	
				260		1.004		0.641	0.643

TOTAL AMPS: 0.641 TOTAL % DROP: 3.15% TOTAL V-DROP: 0.643
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.76 VDC

NOTIFICATION CIRCUIT - D.2 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-15	WALL SPKR/STROBE @ 15cd	4					0.043	0.172	
SPSRL-75	WALL SPKR/STROBE @ 75cd	5					0.107	0.535	
SRL-15	WALL STROBE @ 15cd	2					0.043	0.086	
				375		1.448		0.793	1.148

TOTAL AMPS: 0.793 TOTAL % DROP: 5.63% TOTAL V-DROP: 1.148
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.25 VDC

HFP24S8 NAC-E
BATTERY CALCULATIONS FOR 24 HOUR STANDBY
(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	**FIELD NOTIFICATION APPLIANCE CIRCUITS**					
N1	NOTIFICATION APPLIANCE CIRCUIT -E.1	1	0.000	0.000	1.107	1.107
N2	NOTIFICATION APPLIANCE CIRCUIT -E.2	1	0.000	0.000	0.234	0.234
			NAC TOTALS	0.000		1.341
			OVERALL TOTALS	0.091		1.486

TOTAL ALARM AMPS 1.486 X 15 MINS= 0.372
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083
15 MINS = 0.250
TOTAL AMP HOURS REQUIRED= 2.556
RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.7 AMP HOURS

NOTIFICATION CIRCUIT - E.1 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-75	WALL SPKR/STROBE @ 75cd	6					0.107	0.642	
SPSRL-110	WALL SPKR/STROBE @ 110cd	2					0.148	0.296	
SRL-15	WALL STROBE @ 15cd	1					0.043	0.043	
SRL-30	WALL STROBE @ 30cd	2					0.063	0.126	
				425		1.641		1.107	1.816

TOTAL AMPS: 1.107 TOTAL % DROP: 8.90% TOTAL V-DROP: 1.816
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 18.58 VDC

NOTIFICATION CIRCUIT - E.2 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-110	WALL SPKR/STROBE @ 110cd	1					0.148	0.148	
SRL-15	WALL STROBE @ 15cd	2					0.043	0.086	
				150		0.579		0.234	0.135

TOTAL AMPS: 0.234 TOTAL % DROP: 0.66% TOTAL V-DROP: 0.135
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 20.26 VDC

HFP24S8 NAC-P
BATTERY CALCULATIONS FOR 24 HOUR STANDBY
(•) 24 ( ) 60

PART#	DESCRIPTION	QTY	STANDBY CURRENT	TOTAL STANDBY	ALARM CURRENT	TOTAL ALARM
PANEL CONTROLLER AND CARDS						
HFP24S8	8 AMP NOTIFICATION POWER SUPPLY	1	0.09100	0.09100	0.14500	0.14500
			PANEL TOTALS	0.091		0.145
24V AUXILIARY DEVICES						
			24V AUX. DEVICE TOTALS	0.000		0.000
PANEL CIRCUIT	**FIELD NOTIFICATION APPLIANCE CIRCUITS**					
N1	NOTIFICATION APPLIANCE CIRCUIT -P.1	1	0.000	0.000	0.535	0.535
N2	NOTIFICATION APPLIANCE CIRCUIT -P.2	1	0.000	0.000	0.618	0.618
			NAC TOTALS	0.000		1.153
			OVERALL TOTALS	0.091		1.298

TOTAL ALARM AMPS 1.298 X 15 MINS= 0.325
TOTAL STANDBY AMPS 0.091 X 24 HOURS= 2.184
5 MINS = 0.083
15 MINS = 0.250
TOTAL AMP HOURS REQUIRED= 2.509
RECOMMENDED MINIMUM BATTERY SIZE= 7.0 AMP HOURS
LESS 25% DERATING FACTOR= 5.3 AMP HOURS
SPARE AMP HOURS 2.7 AMP HOURS

NOTIFICATION CIRCUIT - P.1 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-75	WALL SPKR/STROBE @ 75cd	5					0.107	0.535	
				515		1.988		0.535	1.064

TOTAL AMPS: 0.535 TOTAL % DROP: 5.21% TOTAL V-DROP: 1.064
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 19.34 VDC

NOTIFICATION CIRCUIT - P.2 - VOLTAGE DROP CALCULATIONS
1) STARTING VOLTAGE (24Vdc) AT 85% EFFICIENCY: Vdc = 24Vdc x .85 = 20.4Vdc
2) WIRE RESISTANCE (OHMS) = (#14 FEET x 3.07/1000 +#12 FEET x 1.93/1000 + #10 FEET x 1.21/1000) x 2
3) UTILIZING EOL OHM'S CALCULATIONS, ACCEPTABLE VOLTAGE DROP IS NO LESS THAN 16VDC EOL AS PER UL864 10TH EDITION
* FORMULA = CURRENT X DISTANCE² X RESISTIVITY CONSTANT / CIRCULAR MILLS / VOLTAGE X 1000 = % OF DROP

PART #	DEVICE TYPE	NO. OF DEVICE ON CKT	TOTAL LINEAR FEET OF WIRE #14	#12	#10	RES. OF WIRES (OHMS)	DEVICE LOAD (AMPS)	TOTAL LOAD (AMPS)	VOLTAGE DROP (VOLTS)
SPSRL-75	WALL SPKR/STROBE @ 75cd	3					0.107	0.321	
SPSRL-110	WALL SPKR/STROBE @ 110cd	1					0.148	0.148	
SRL-15	WALL STROBE @ 15cd	2					0.043	0.086	
SRL-30	WALL STROBE @ 30cd	1					0.063	0.063	
				615		2.374		0.618	1.467

TOTAL AMPS: 0.618 TOTAL % DROP: 7.19% TOTAL V-DROP: 1.467
STARTING VOLTAGE 20.4VDC ACTUAL FINISH VOLTAGE 18.93 VDC

DECIBLE LOSS CALCULATOR

ROOM # / NAME: ALL
SPEAKER #: ALL
SPEAKER TAP: 1/4 & 1/2 WATT

MODEL #	VOLTAGE	REVERBERANT DBA AT 10 FEET PER UL 1480 (RATED WATTS) 1/8W	1/4W	1/2W	1W	2W
SPSRL	70	N/A	77	80	83	86

Decibel Loss Formula L=20XLog10(V2/V1)
L=loss
V1=Value of Starting Reference
V2=Value of Distance from Reference

Ambient Noice Level 60 Enter Ambient Noise here
dB at 10' from Source 80 Enter Audio Device Decibel level here

Start Reference from Source in Feet	Farthest Distance from Reference Point in Feet	Decibel Loss Between Start & Distance Reference Points	Decibel Level at Finish Reference Point	dB Above Ambient (must be 15dB above Ambient)
10	10	0.00	80.00	20.00
	11	-0.83	79.17	19.17
	12	-1.58	78.42	18.42
	13	-2.28	77.72	17.72
	14	-2.92	77.08	17.08
	15	-3.52	76.48	16.48
	16	-4.08	75.92	15.92
	17	-4.61	75.39	15.39
	18	-5.11	74.89	14.89

FIRE ALARM FUNDAMENTAL OF DESIGN: CALCULATIONS

AS STATED IN NFPA 72, CHAPTER 10.3.5: EQUIPMENT SHALL BE DESIGNED SO THAT IT IS CAPABLE OF PERFORMING ITS INTENDED FUNCTIONS UNDER THE FOLLOWING CONDITIONS:

(1) *AT 85 PERCENT AND AT 110 PERCENT OF THE NAMEPLATE PRIMARY (MAIN) AND SECONDARY (STANDBY) INPUT VOLTAGE(S)
(2) AT AMBIENT TEMPERATURES OF 32°F (0°C) AND 120°F (49°C)
(3) AT A RELATIVE HUMIDITY OF 85 PERCENT AND AN AMBIENT TEMPERATURE OF 86°F (30°C)

AS PER THE MANUFACTURE, THE FIRE ALARM CONTROL PANEL'S LISTED VOLTAGE IS 24VDC. THE OPERATING VOLTAGE RANGES FROM 20.4VDC TO 26.4VDC.

WHERE BACK-UP BATTERIES ARE USED, THE BATTERY CALCULATIONS ARE BASED ON A BACK-UP POWER (BATTERY) THAT DERATED BY 20%.

EXAMPLE:

BATTERY POWER (24VDC) X 85% = DERATING FACTOR (STARTING VOLTAGE)

24VDC X .85 = 20.4VDC

AS PER UL864, 10TH EDITION, THE NOTIFICATION APPLIANCES MUST OPERATE BETWEEN 16VDC AND 33VDC AND STATES THAT THE END OF LINE VOLTAGE FOR A NOTIFICATION APPLIANCE CIRCUIT MUST BE NOT LESS THAN 16VDC (MANUFACTURE'S UL LISTED OPERATING VOLTAGE). THUS ALL NOTIFICATION APPLIANCE CIRCUITS ARE CALCULATED WITH A 20% DERATED FACTOR AND THE STARTING VOLTAGE IN 20.4VDC. ALTHOUGH THE PERCENTAGE OF VOLTAGE DROP MAY VARY, ALL NOTIFICATION APPLIANCE CIRCUITS AND BATTERY CALCULATIONS MUST AND WILL CONFIRM TO THIS STANDARD.

FIRE ALARM CALCULATION NOTES:

1. INSTALL TWO 12VDC, 55Ah BATTERIES IN BATTERY ENCLOSURE FOR FACP.
2. INSTALL TWO, 12VDC, 7Ah BATTERIES IN EACH AMPLIFIER ENCLOSURE.
3. INSTALL TWO, 12VDC, 7Ah BATTERIES IN NAC POWER SUPPLY ENCLOSURES.
4. INSTALL ONE, 12VDC, 7Ah BATTERY IN FAC ENCLOSURE. (MANUFACTURER RECOMMENDED BATTERY SIZE AS PER INSTALLATION MANUAL)

1 FIRE ALARM CALCULATIONS
SCALE: NO SCALE

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Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

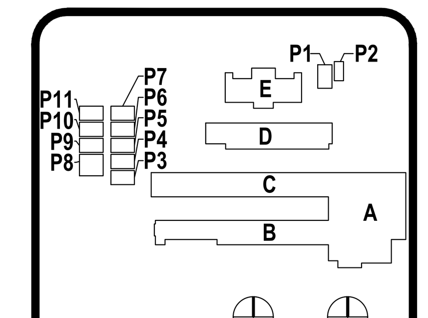
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LODI UNIFIED SCHOOL DISTRICT



KEY PLAN

REGISTERED PROFESSIONAL ENGINEER
STEVEN C. MUSSER
E-19817
ELECTRICAL
STATE OF CALIFORNIA
11/28/23

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 4/12/2024
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REVISIONS

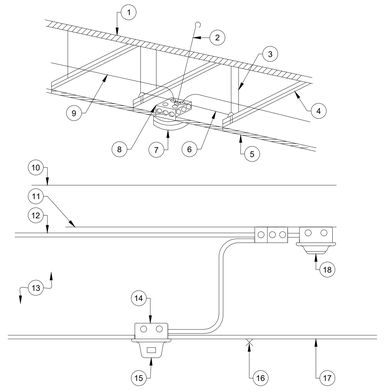
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FIRE ALARM CALCULATIONS

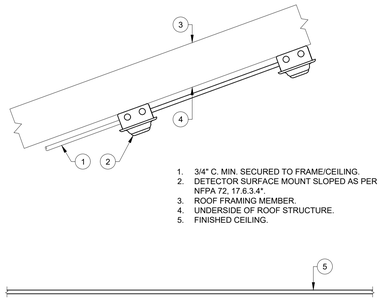
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1. PERMANENT CEILING.
2. SEISMIC HANGER.
3. HANGERS
4. T-BAR
5. DROP CEILING TILE.
6. T-BAR BOX SUPPORT BRACKET.
7. SMOKE DETECTOR
8. 4" Sq. BOX.
9. 3/4" MINIMUM METALLIC CONDUIT.
10. UNDERSIDE OF ROOF STRUCTURE.
11. ROOF FRAMING MEMBER.
12. 3/4" MINIMUM CONDUIT, CONCEAL IN ATTIC SPACE.
13. CEILING SPACE.
14. JUNCTION BOX MOUNTED IN CEILING (SEE NOTE).
15. SMOKE DETECTOR.
16. "PERMANENT MARKER" INDICATES THE LOCATION OF THE HEAT DETECTOR IN THE ATTIC SPACE. RED LETTER ON WHITE BACKGROUND SHALL BE 3/4" HIGH.
17. FINISH CEILING.
18. HEAT DETECTOR.



REFERENCE NFPA 72, CHAPTER 17

CEILING & ABOVE CEILING DETECTOR MOUNTING DETAIL 01



1. 3/4" C. MIN. SECURED TO FRAME/CEILING.
2. DETECTOR SURFACE MOUNT SLOPED AS PER NFPA 72, 17.6.3.4*.
3. ROOF FRAMING MEMBER.
4. UNDERSIDE OF ROOF STRUCTURE.
5. FINISHED CEILING.

REFERENCE NFPA 72, CHAPTER 17

ABOVE CEILING SLOPED DETECTOR MOUNTING DETAIL 02

ALL WORK SHALL BE IN CONFORMANCE WITH TITLE 24, 2022 CALIFORNIA CODE OF REGULATIONS (CCR), 2022 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 CCR, 2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR

CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE.

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

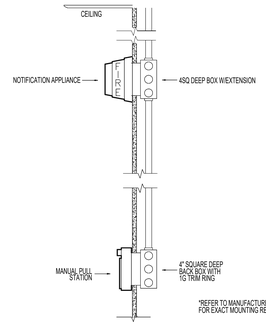
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

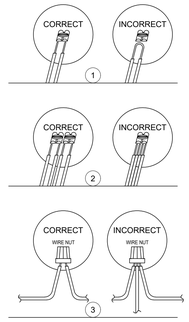
MP [ ] MD [ ] PP [ ] E [X] OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP [ ] MD [ ] PP [ ] E [ ] OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

ANCHORAGE AND BRACING NOTES 03

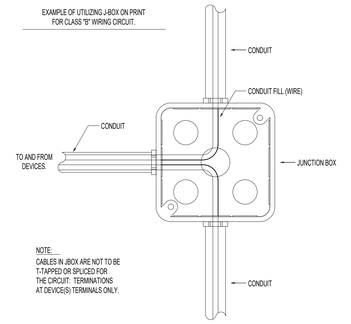


DEVICE WALL MOUNT DETAIL 04

1. DO NOT LOOP CONDUCTOR INTO TERMINAL. ALWAYS CUT WIRE AND INSERT INTO TERMINAL.
2. ONLY INSTALL TWO (2) CONDUCTORS IN EACH TERMINAL (MAXIMUM). DO NOT INSTALL FOUR (4) CONDUCTORS IN ONE TERMINAL.
3. WHEN USING A WIRE NUT, ONLY CONNECT TWO (2) CONDUCTORS WITH ONE (1) WIRE NUT. (USE AS NEEDED OR ALLOWED)

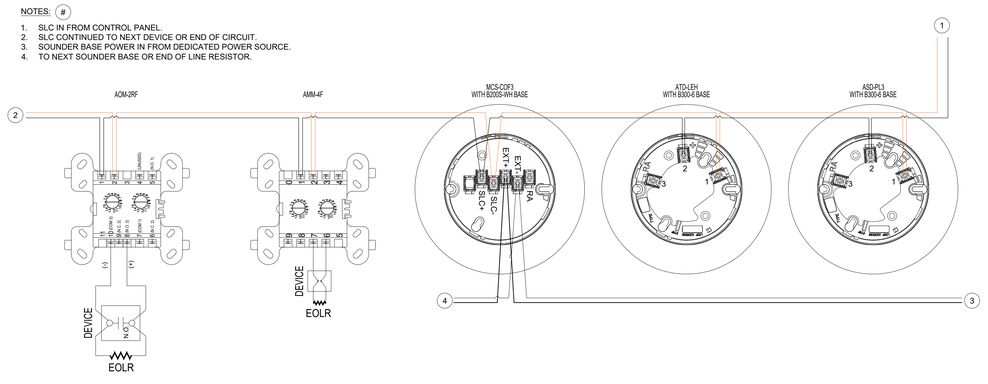


WIRING METHOD DETAIL 05

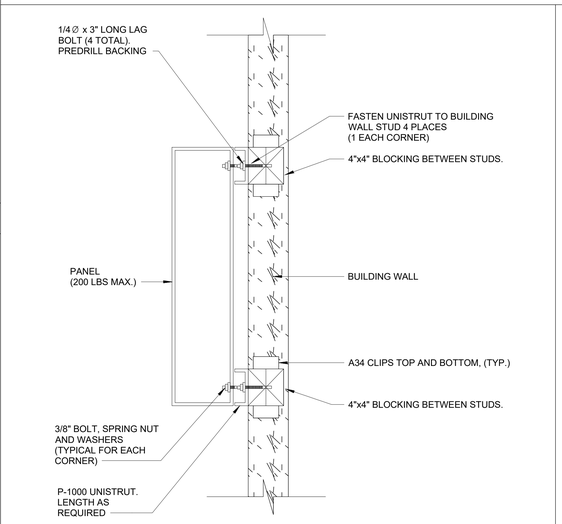


WIRE ROUTING DETAIL - JUNCTION BOX 06

NOTES: (#)
1. SLC IN FROM CONTROL PANEL.
2. SLC CONTINUED TO NEXT DEVICE OR END OF CIRCUIT.
3. SOUNDER BASE POWER IN FROM DEDICATED POWER SOURCE.
4. TO NEXT SOUNDER BASE OR END OF LINE RESISTOR.

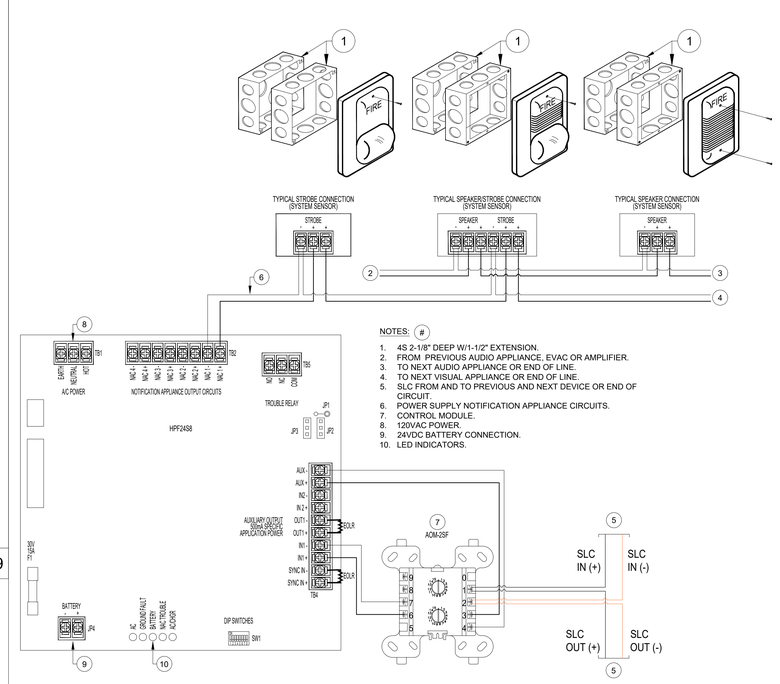


TYPICAL DETECTOR AND MODULE SLC AND SOUNDER BASE WIRE DIAGRAM 08



NOTES:
1. THIS DETAIL IS GENERAL IN NATURE. REFER TO MANUFACTURE'S INSTALLATION INSTRUCTIONS FOR ALL REQUIRED MOUNTING HARDWARE AND OR ACCESSORIES.

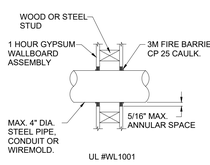
SURFACE MOUNTED PANEL/CABINET WOOD FRAMING DETAIL 09



NOTES: (#)
1. 4S 2-1/8" DEEP W/1-1/2" EXTENSION.
2. FROM PREVIOUS AUDIO APPLIANCE, EVAC OR AMPLIFIER.
3. TO NEXT AUDIO APPLIANCE OR END OF LINE.
4. TO NEXT VISUAL APPLIANCE OR END OF LINE.
5. SLC FROM AND TO PREVIOUS AND NEXT DEVICE OR END OF CIRCUIT.
6. POWER SUPPLY NOTIFICATION APPLIANCE CIRCUITS.
7. CONTROL MODULE.
8. 120VAC POWER.
9. 24VDC BATTERY CONNECTION.
10. LED INDICATORS.

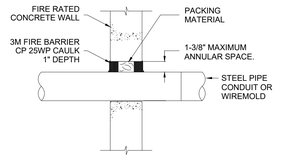
HPF24S8 WITH AOM-2SF CONTROL MODULE TYPICAL WIRE DIAGRAM 10

GYPSUM BOARD WALL PENETRATION



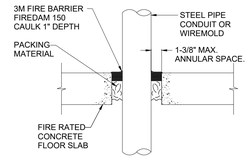
UL #WL1001

CONCRETE WALL PENETRATION



UL #CAJ1044

CONCRETE FLOOR PENETRATION



UL #CAJ1017

ITEM 1

WALL ASSEMBLY - THE 1, 2, 3 OR 4 HOUR FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2 HR. RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2" X 4" LUMBER SPACED IN 16" ON CENTER WITH NOMINAL 2" X 4" LUMBER AND PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3-8/8" WIDE BY 1-3/8" DEEP CHANNELS SPACED MAXIMUM 24" ON CENTER.
B. WALLBOARD/GYPSUM - NOMINAL 5/8" THICK, 4' WIDE SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARDS RYPS, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE SPECIFIED IN THE INDIVIDUAL U300 OR U400 DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.

MAXIMUM DIAMETER OF OPENINGS IS 13-1/2".

SYSTEM NUMBER: WL1001 (FORMERLY SYSTEM NUMBER 147)
F RATINGS: 1, 2, 3 AND 4 HOUR (SEE ITEMS 2 AND 3)
T RATINGS: 0, 1, 2, 3 AND 4 HOUR (SEE ITEM 3)
L RATING AT AMBIENT: LESS THAN 1 CFM/SQ FT (SEE ITEM 3)

ITEM 2

PIPE OR CONDUIT - NOMINAL 12" IN DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER), STEEL PIPE NOMINAL 6" IN DIAMETER (OR SMALLER), STEEL CONDUIT NOMINAL 4" IN DIAMETER (OR SMALLER), STEEL ELECTRICAL METALLIC TUBING OR TYPE L (OR HEAVIER), COPPER TUBING NOMINAL 1" IN DIAMETER (OR SMALLER), FLEXIBLE STEEL CONDUIT. WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAXIMUM F RATING OF FIRESTOP SYSTEM (TIEM CONSTRUCTED USING STEEL CHANNEL STUDS). A MAXIMUM OF ONE (1) PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED IN BOTH SIDES OF WALL ASSEMBLY.

ITEM 3

FILL, VOID OR CAVITY MATERIAL, CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MINIMUM OF 1/4" IN DIAMETER BOARD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. IN THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIA. (INCHES)	ANNULAR SPACE (INCHES)	F RATING (HOURS)	T RATING (HOURS)
1	0 TO 3/16	1 OR 2	0 + 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 NOMINAL
MINNESOTA MINING & MFG. CO. - TYPES CP-23 S/L, CP-25 N/8, CP-25 WS, CP-25 WS + (NOTE: L RATINGS APPLY WHEN THE TYPE CP-25WS+CAULK IS USED)

THROUGH WALL & FIRE STOP PENETRATION DETAILS 07

Not for permitting or construction

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

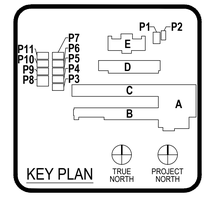
ARCHITECT PBK-WLC, Inc.
PBK-WLC.com
1100 Iron Point Road, Suite 200
Folsom, CA 95630
916-355-9922

CONSULTANT
LEAF ENGINEERS
1100 Iron Point Road, Suite 200
Folsom, CA 95630
916-355-9922
leafengineers.com

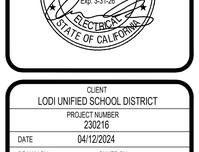
GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT



KEY PLAN TRUE NORTH PROJECT NORTH



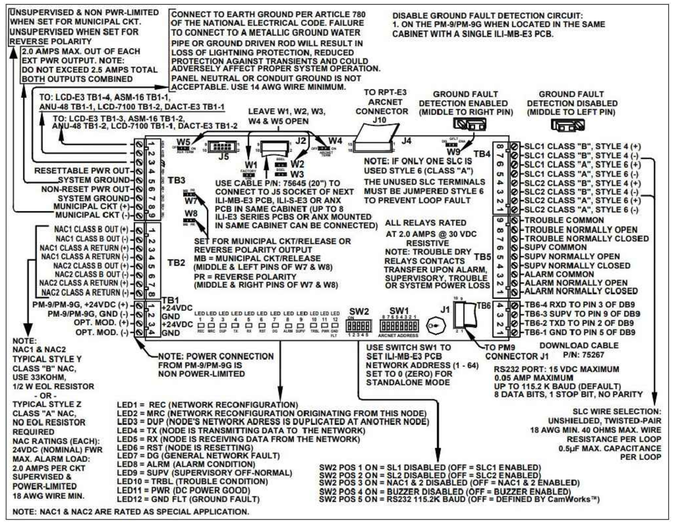
CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 04/12/2024
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

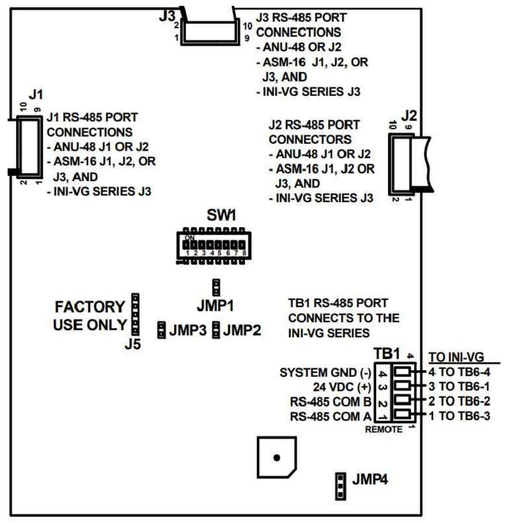
FIRE ALARM DETAILS

This document is for plan review only

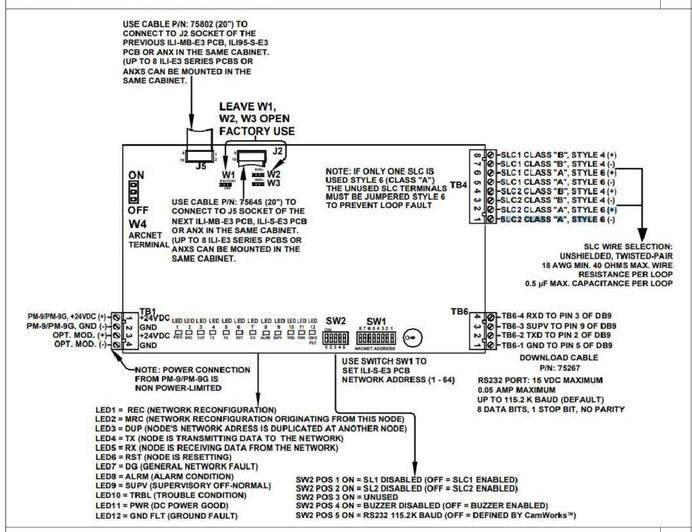
FA4.0



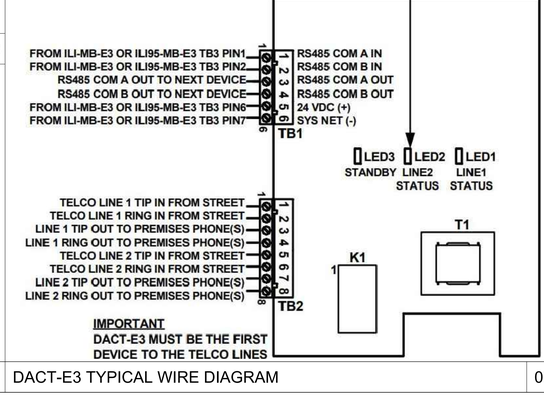
ILI-MB-E3 TYPICAL WIRE DIAGRAM | 01



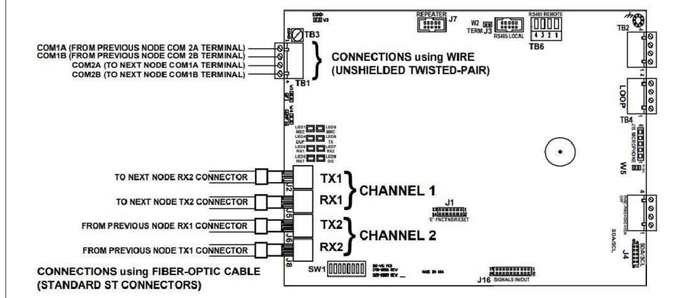
ASM-16 TYPICAL WIRE DIAGRAM | 05



ILI-S-E3 TYPICAL WIRE DIAGRAM | 02

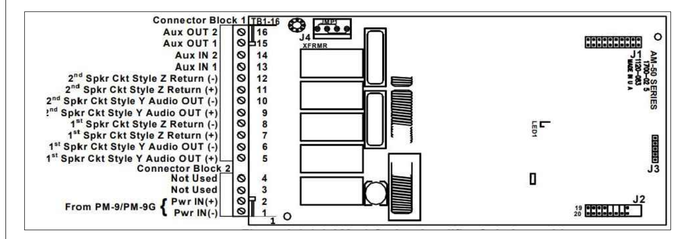


ANU-48 TYPICAL WIRE DIAGRAM | 06



INI-VG TYPICAL WIRE DIAGRAM | 03

DACT-E3 TYPICAL WIRE DIAGRAM | 07



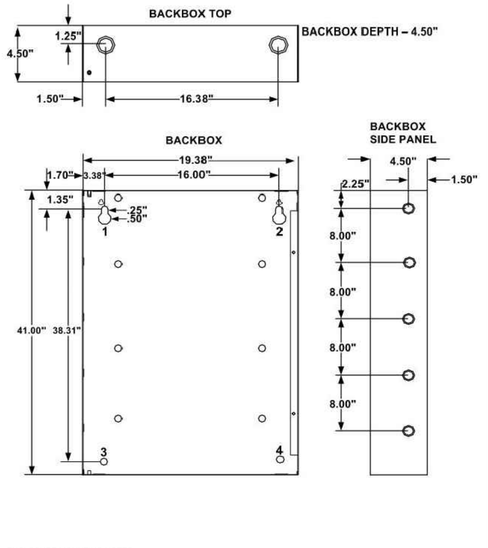
AM-50/70 TYPICAL WIRE DIAGRAM | 04

1. Prepare the mounting site by pre-drilling four (4), #10 screws, using the dimensions shown in the figure below. Use four (4), #10 screws.

NOTE: If the fasteners are anchored to a wallboard, use #10 wall anchors. Mountings to concrete walls should be backed by plywood to insulate the equipment from possible condensation.

2. Secure with two (2), #10 screws in the two-hole mounting pattern as shown in Locations 1 and 2 of the figure below.
3. Set the backbox over the top, two-hole mounting pattern, and hang the backbox over the two screw heads.
4. Insert and secure two (2), #10 screws in the two-hole mounting pattern as shown in Locations 3 and 4 of the figure below.

NOTE: Add knockouts to the left and right side of the rear panel of the backbox. Do not add knockouts in the center or top of the backbox, above the ILI-MB-E3/ILI95-MB-E3/ANX, behind or below the batteries. To add larger knockouts, increase the size of the existing knockouts.



ENCLOSURE MOUNTING NOTES:

1. CAB-D SIZE CABINET WITH STANDARD ASSOCIATED BOARDS, MOUNTING HARDWARE, MICROPHONE AND LCD DISPLAY IS ESTIMATE TO BE LESS THAN 50 LBS.
2. IF TOTAL WEIGHT OF ENCLOSURE WITH STANDARD ASSOCIATED EQUIPMENT AND ANY OTHER ADDITIONAL EQUIPMENT EXCEEDS 50 LBS INSTALL SEISMIC KIT 90518.
3. NEW FIRE ALARM CONTROL PANEL WILL BE MOUNTED IN THE SAME LOCATION AS THE EXISTING FIRE ALARM CONTROL PANEL. USE NEW SIMILAR MOUNTING HARDWARE TO MOUNT NEW FIRE ALARM CONTROL PANEL TO EXISTING WALL STUDS.

E3 SERIES CAB-D ATTACHMENT DETAIL | 08

VMC GROUP
THE POWER OF TOGETHER®

Gamewell FX DETECTION INSTRUMENTS
by Honeywell

CERTIFICATE OF COMPLIANCE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-45894-02C (Revision 8)

Expiration Date: 11/30/2025

Certification Parameters:
The nonstructural products (mechanical and/or electrical components) listed on this certificate are CERTIFIED[1] FOR SEISMIC APPLICATIONS in accordance with the following building code[2] releases.

IBC 2021, 2018, 2015, 2012, 2009

The following model designations, options, and accessories are included in this certification. Reference report number VMA-45894-01 as issued by The VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

Gamewell by Honeywell; Fire Alarm Control Panels
Various Series; Various Ratings

The above referenced equipment is **APPROVED** for seismic application when properly installed[3], used as intended, and contains a Seismic Certification Label referencing this Certificate of Compliance[4]. As limited by the tabulated values, below grade, grade, and roof-level installations, installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification with an Equipment Importance Factor assigned as I_p=1.5. The equipment is qualified by successful seismic shake table testing at the nationally recognized University of California Berkeley Pacific Earthquake Engineering Research Center and Dynamic Certification Laboratories under the witness of the ISO Accredited Product Certification Agency, the VMC Group.

Certified Seismic Design Levels			
Certified IBC	Importance I_p ≤ 1.5 Soil Classes A-E Risk Categories I-IV Design Categories A-F	z/h ≤ 1.0 S_{DS} ≤ 2.000 g	z/h > 0.0 S_{DS} ≤ 2.500 g

Certified Seismic Installation Methods
Directly To Structural Wall

HEADQUARTERS
13 Main Street
Bloomingdale, NJ 07403
Phone:973.838.1780
Toll Free:800.969.9423
Fax:973.492.8439

CALIFORNIA
180 Promenade Circle
Suite 300
Sacramento, CA 95834
Phone:916.694.2371

TEXAS
1900 Briercroft Park Drive
Houston, TX 77041
Phone: 713.466.0333
Fax: 713.466.0555

thevmcgroup.com
ADVANCED CERTIFICATIONS
DCL

1025-103387 Rev18

VMC GROUP
THE POWER OF TOGETHER®

Gamewell FX DETECTION INSTRUMENTS
by Honeywell

CERTIFICATE OF COMPLIANCE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certified Product Table:

Model	Description
GWF402[5], -404[5], GF505[5], -510[5]	2-Zone, 4-Zone; 5-Zone, 10-Zone Fire Alarm Control Panel
GF506[5]	Deluge/Preaction Control Panel
GF506E[5]	Agent Release Control Panel
1100-0480, -0481	Netaxis 7100 Fire Alarm Control Panel
7100-10-PNL[1-2]	7100 Slim Fire Alarm Control Panel
E3BB-RBSLIM[1-2]	E3 Series 8-SLIM
SLP-BLK, -RED[1-2]	S3 (SLP) Series
E3BB-BB, -RB[3-4], E3BB-BC/INCC, - RC/INCC[3-4], E3BB-BD/INCC, -RD/INCC[3-4]	E3 Series Intelligent Network Command Center (INCC)
E3BB-BB/INX, -RB/INX[4], E3BB-BC/INXX, -RC/INXX; E3BB-BD/INXX, -RD/INXX	E3 Series Intelligent Network Transponder
E3BB-BAA	E3 LOC
GWF-7075[1]	Intelligent Fire Alarm Control Panel
GSM-CAB-GWF	Houses a GSM (cellular) Communicator Card for Central Station Reporting
LTE-CAB-GWF	Houses a LTE (cellular) Communicator Card for Central Station Reporting
GWF-PS6[6], -PS10[6]	6-amp, 10-amp Power Supply, Includes 2 TBL Relay Circuits

Required Seismic Kits: [1]90516, [2]90517, [3]90518, [4]90519, [5]90520, [6]SEISKIT-COMMENC, [7]SK-SCK, [8]SEISKIT-MULTI-1

Group	Type	S_{DS} (z/h=0)	S_{DS} (z/h=1)	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}	F_p/W_p	Installation Methods
Seismic	AC156	2.50	2.00	3.20	2.40	1.67	0.67	1.50	Directly to Structural Wall

This certification includes the unit and factory supplied accessories and options. The unit and included accessories and options shall be a catalogue design and factory supplies. The unit shall be installed and attached to the building structure per the manufacturer supplied seismic installation instructions. This certification excludes all non-factory supplied accessories, including but not limited to mounting brackets and the integrity of the wall or other supporting structure to which the unit is being attached.

1025-103387 Rev18

VMA-45894-02C (Revision 8)
Issue Date: Wednesday, November 30, 2016
Revision Date: Friday, October 14, 2022
Expiration Date: Sunday, November 30, 2025

VMC GROUP
THE POWER OF TOGETHER®

Gamewell FX DETECTION INSTRUMENTS
by Honeywell

CERTIFICATE OF COMPLIANCE
SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Notes & Comments:

1. All equipment listed herein successfully passed the seismic acceptance criteria for shake testing non-structural components and systems as set forth in the ICC AC-156. The Test Response Spectrum (TRS) enveloped the Required Response Spectrum (RRS) for all units tested. The tested units were representative sample(s) of a contingent of models and all remained captive and structurally sound after the seismic shake simulation. The units also remained functionally operational after the simulation testing as functional testing was completed by the equipment manufacturer before and after the seismic simulations. Although a seismic qualified unit inherently contains some wind resisting capacity, that capacity is undetermined and is excluded from this certification. Snow/ice loads have been neglected and thus limit the unit to be installed both indoors (covered by an independent protective structure) and out of doors (exposed to accumulating snow/ice) for ground snow loads no greater than 30 psf for all applications.
2. The following building codes are addressed under this certification:
   IBC 2021 referencing ASCE7-16 and ICC-ES AC-156
   IBC 2018 referencing ASCE7-16 and ICC-ES AC-156
   IBC 2015 referencing ASCE7-10 and ICC-ES AC-156
   IBC 2012 referencing ASCE7-10 and ICC-ES AC-156
   IBC 2009 referencing ASCE7-05 and ICC-ES AC-156
3. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for seismic applications. Required anchor locations, size, style, and load capacities (tension and shear) may be specified on the installation drawings or specified by a 3rd party. Mounting requirement details such as anchor brand, type, embedment depth, edge spacing, anchor-to-anchor spacing, concrete strength, special inspection, wall design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural walls, structural floors, and housekeeping pads must also be seismically designed and approved by the project or building Structural Engineer of Record to withstand the seismic anchor loads as defined on the installation drawings. The installing contractor is responsible for ensuring the proper installation of all anchors and mounting hardware.
4. For this certificate and certification to remain valid, this certificate must correspond to the "Seismic Certification Label" found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC seismic design criteria set forth by the Certified Seismic Qualification Agency, the VMC Group, and meets the seismic design levels claimed by this certificate.
5. Mechanical, Electrical, and Plumbing connections to the equipment must be flexibly attached as to not transfer load through the connection. The structural integrity of any conduit, cable trays, piping, ductwork and/or flexible connections is the responsibility of others. This certification does not guarantee the equipment will remain compliant to NEMA, IP, UL, or CSA standards after a seismic event.
6. This certificate applies to units manufactured at:
   12 Clintonville Road, Northford, CT 06472
7. This certification follows the VMC Group's ISO-17065 Scheme.

John P. Giuliano, PE
President, VMC Group

1025-103387 Rev18

VMA-45894-02C (Revision 8)
Issue Date: Wednesday, November 30, 2016
Revision Date: Friday, October 14, 2022
Expiration Date: Sunday, November 30, 2025

SEISMIC CERTIFICATES | 09

Not for permitting or construction

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SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

PBK

ARCHITECT
PBK-WLC, Inc.
PBK-WLC.com
1100 Iron Point Road, Suite 200
Folsom, CA 95630
916-355-9922

CONSULTANT
LEAF ENGINEERS
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GEORGE WASHINGTON ES MODERNIZATION

LODI UNIFIED SCHOOL DISTRICT
GEORGE WASHINGTON ELEMENTARY SCHOOL
831 WEST LOCKEFORD STREET
LODI, CA 95240

LODI UNIFIED SCHOOL DISTRICT

P1 P2 P7 P6 P5 P4 P3 P11 P10 P9 P8 E D C B A

KEY PLAN — TRUE NORTH — PROJECT NORTH

LICENSED PROFESSIONAL ENGINEER STEVEN C. MUSSER E-19817 ELECTRICAL STATE OF CALIFORNIA
11/28/23

CLIENT
LODI UNIFIED SCHOOL DISTRICT
PROJECT NUMBER
230216
DATE 4/12/2024
DRAWN BY: CHKED BY:
REVISIONS

#	DESCRIPTION	DATE

This document is for plan review only

FIRE ALARM DETAILS

FA4.1

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DATE: 12/19/2024

DESIGN CRITERIA	
BASE LOCATION LOCATED AT BOTTOM OF BASEPLATE/TOP OF FOOTING	
DESCRIPTION	DESIGN VALUES
DEAD AND LIVE LOADS	
ROOF LIVE LOAD	20 PSF
ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)	5 PSF MAX
ROOF PANEL DEAD LOAD	M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF
COLLATERAL DEAD LOAD	M = 3.9 PSF, G = 3.8 PSF, S = 3.7 PSF
ROOF LIVE LOAD	
ROOF LIVE LOAD, L_r	20 PSF
ROOF SNOW LOAD	
GROUND SNOW LOAD, P_g	20 PSF
RISK CATEGORY	II
ROOF SNOW LOAD: SLOPED, P_s	20 PSF
FOR SNOW LOAD CONDITIONS ONLY - SITE APPLICATION REVIEWER SHALL VERIFY THE STTRUCTURE SHALL BE LOCATED AT LEAST 20 FEET	
FROM ANY ADJACENT STRUCTURE FOR SNOW DRIFT.	
SNOW LOAD SLOPE FACTOR, C_s	1.0
SNOW LOAD EXPOSURE FACTOR, C_e	1.0
SNOW LOAD IMPORTANCE FACTOR, I_s	1.0
THERMAL FACTOR, C_t	1.2
LOWEST ANTICIPATED SERVICE TEMPERATURE	30
WIND DESIGN	
BASIC WIND SPEED (3 SECOND GUST), V_{ult}, V_{asd}	100 MPH, 78 MPH
RISK CATEGORY	II
EXPOSURE CATEGORY	C
FACTORS: K_d, K_{zt}, K_z	0.85, 1.0, 0.85
q_h = 0.00256 K_z K_{zt} K_d V^2	18.50 PSF
C_{NW} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (1.1 / -1.2) CASE B (0.01 / -0.69)
C_{NL} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED	CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)
C_L PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (< h)	CASE A (-0.8 / -1.2) CASE B (0.8 / 0.5)
C_L PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (> h, < 2h)	CASE A (-0.6 / -0.9) CASE B (0.5 / 0.5)
C_L PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (>2h)	CASE A (-0.3 / -0.6) CASE B (0.3 / 0.3)
COMPONENTS & CLADDING - C_N (PRESSURE/SUCTION) CLEAR / OBSTRUCTED	ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0)
	ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3)
	ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)
SEISMIC DESIGN	
LATERAL FORCE RESISTING SYSTEM	STEEL - ORDINARY CANTILEVER COLUMN
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
SEISMIC IMORTANCE FACTOR, I_e	1.0
SEISMIC SITE CLASS	D
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_S	2.60
MCE_R SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_1	0.90
SHORT PERIOD SITE COEFFICIENT, F_a	1.20
LONG PERIOD COEFFICIENT, F_v	1.70
FUNDAMENTAL PERIOD OF THE STRUCTURE, T (WORST CASE FOR ALL STRUCTURES)	0.152 s
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS}	2.08 ☐
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS} - USED TO DETERMINE Cs (WITH CAP PER ASCE 7 12.8.1.3) SOIL PROPERTIES MAY NOT BE CLASSIFIED AS SITE CLASS E.	2.08 * 0.70 = 1.456 ☐
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S_{D1}	1.02
SEISMIC DESIGN CATEGORY	E
SITE SPECFIC RESPONSE ANALYSIS NOT REQUIRED PER ASCE 7 11.4.8 EXCEPTION 2	T_s = 0.49 s / T < 1.5 * T_s
RESPONSE MODIFICATION FACTOR, R	1.25
OVERSTRENGTH FACTOR, Ω	1.25
REDUNDANCY FACTOR, ρ	1.0
HORIZONTAL OR VERTICAL IRREGULARITIES	NONE
SEISMIC RESPONSE COEFFICIENT, C_s (20' WIDE, 30' WIDE, 40' WIDE)	1.16 / 1.00 / 1.00
DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE) (WORST CASE)	10.62 PSF ☐ / 12.70 PSF ☒ / 12.85 PSF ☐
ALLOWABLE SOIL BEARING FOR FOUNDATIONS	VARIES - SEE FOUNDATION CHARTS
FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA	
IF PROJECT IS LOCATED IN A FLOOD ZONE OTHERTHAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.	

STRUCTURAL SEPARATION

ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IR PC-7

SEPARATION IS THE SUM OF 2 OF THESE SELECTED DEFLECCTION

DEFLECTIONS ARE FOR (1) STRUCTURE

SOIL CLASSES PER CBC TABLE 1806A.2

MAXIMUM DRIFT δ_{max} SIDE COLUMNS

	Soil Class 5	Soil Class 4	Soil Class 3
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.40~~	~~[ ] 2.55~~	~~[ ] 2.65~~
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[X] 2.15	[ ] 2.30	[ ] 2.40
~~40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.20~~	~~[ ] 2.29~~	~~[ ] 2.30~~
MINIMUM SEPARATION ($\delta_m = C_d\ \delta_{max}$) C_d = 1.25			
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 3.00~~	~~[ ] 3.19~~	~~[ ] 3.31~~
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[X] 2.69	[ ] 2.88	[ ] 3.00
~~40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.75~~	~~[ ] 2.75~~	~~[ ] 2.88~~

MAXIMUM DRIFT δ_{max} END COLUMNS

	Soil Class 5	Soil Class 4	Soil Class 3
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.40~~	~~[ ] 2.55~~	~~[ ] 2.65~~
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[X] 2.15	[ ] 2.30	[ ] 2.40
~~40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.20~~	~~[ ] 2.29~~	~~[ ] 2.30~~
MINIMUM SEPARATION ($\delta_m = C_d\ \delta_{max}$) C_d = 1.25			
~~20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 3.00~~	~~[ ] 3.19~~	~~[ ] 3.31~~
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)	[X] 2.69	[ ] 2.88	[ ] 3.00
~~40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT) (INCHES)~~	~~[ ] 2.75~~	~~[ ] 2.75~~	~~[ ] 2.88~~

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWINGS TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
- GABLE STRUCTURES UP TO 20' WIDE USE THE "RG 20" BASE FRAME
- GABLE STRUCTURES UP TO 30' WIDE USE THE "RG 30" BASE FRAME
- GABLE STRUCTURES UP TO 40' WIDE USE THE "RG 40" BASE FRAME
- MAXIMUM WIDTH IS 40' (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- THE 24', 44', 64', 84' AND 104' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON (20' BAYS ARE THE MOST ECONOMICAL)
- FRAME LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT – 2' MAX DIMENSION)

STEP 1	FRAME DIMENSIONS					
		SUGGESTED			OTHER	
	FRAME WIDTH	[ ] 20'	[ ] 30'	[ ] 40'		[X] ~~(40' MAX)~~ 25'
	FRAME LENGTH	[ ] 44'	[X] 64'	[ ] 84'	[ ] 104'	[ ] (NO MAX)

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
- "M" REPRESENTS McELROY METAL "MULTI-RIB" ROOF PANEL
- "G" REPRESENTS McELROY METAL "MEGA-RIB" ROOF PANEL
- "S" REPRESENTS McELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF PANEL

STEP 2	ROOF PANEL				
	ROOF PANEL TYPE	[ ] M	[ ] G	[X] S	

STEP 3: IDENTIFY THE Ss ACCELERATION (g) FOR YOUR PROJECT
- Ss VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
- Ss VAULE DEPENDS ON THE PROJECTS GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
- FIND Ss VALUES FOR YOUR PROJECT ON THE USGS WEB SITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")

STEP 3	PROJECT SITE – Ss ACCELERATION (g)
	0.617

STEP 4: IDENTIFY THE Ss REGION FOR YOUR PROJECT
- THE REGIONS ARE DEPENDANT ON THE Ss VALUE DETERMINED IN STEP 3
- THE Ss REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME

STEP 4	Ss REGION			
			Ss REGIONS	MAX DEAD LOAD
	DESCRIPTION	X	0 < Ss <= 2.14	5 PSF
			2.14 < Ss <= 2.50	5 PSF
			2.50 < Ss <= 2.60	5 PSF

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4 FOR YOUR Ss VALUE
- Sds VALUE USED IN CALCULATION IS THE CAPPED Sds (SEE DESIGN CRITERIA)

STEP 5	TOTAL ROOF DEAD LOAD		
		DEAD LOAD	EXAMPLES
	ROOF DECK	1.3 PSF	M=1.1PSF; G=1.2PSF ;S=1.3PSF (SEE STEP 2)
	COLLATERAL	0 PSF	LIGHTNING,FIRE SUPPRESSION,SOLAR PANELS,ETC
	TOTAL	1.3 PSF	ADD ROOF DECK AND COLLATERAL LOADS (MAX 5 PSF)

STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT
- IDENTIFY SOIL CLASS FOR PROJECT SITE PER SITE SPECIFIC SOIL CONDITIONS
- USE THIS TO SELECT CORRECT FOUNDATION SIZE ON FOUNDATION SHEET AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT

STEP 6	FOUNDATION REQUIREMENTS		
	[X] GEOTECHNICAL REPORT NOT REQUIRED	[ ] GEOTECHNICAL REPORT REQUIRED	
	SOIL CLASS 5 (BEARING) 1500 PSF [X]	SOIL CLASS 4 (BEARING) 2000 PSF [ ]	SOIL CLASS 3 (BEARING) 3000 PSF [ ]
	SOIL CLASS 5 (LATERAL BEARING) 200 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 300 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 400 PSF/FT
	COHESION 130 PSF	FRICTION COEFFICIENT 0.25	FRICTION COEFFICIENT 0.30

STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT
- MAXIMUM CLEAR HEIGHT IS 12'-0": (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
- MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

STEP 7	MISCELLANEOUS		
		DESIGN OPTIONS	
	CLEAR HEIGHT	[ ] 8' [ ] 10' [X] 12'	[ ] ' (12' MAX)
	ELECTRICAL CUTOUTS	[ ] YES	[X] NO
	GUTTERS	[X] YES	[ ] NO

STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT
- REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF PANEL TYPE (STEP 2)
- IDENTIFY THE APPLICABLE SHEET INDEX

STEP 8	SHEET INDEX											
	BASE FRAME	RG 20			RG 30			RG 40		
	ROOF PANEL TYPE	M	G	S	M	G	S	M	G	S
	SELECT ONE	[ ]	[ ]	[ ]	[ ]	[ ]	[X]	[ ]	[ ]	[ ]
	GENERAL NOTES	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0
	FOUNDATION PLAN	LS2.0	LS2.0	LS2.0	LS3.0	LS3.0	LS3.0	LS4.0	LS4.0	LS4.0
	FRAMING PLAN	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1
	FRAME CONNECTION DETAILS	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1	LS4.1
	ROOFING LAYOUT & DETAILS	LS2.2	LS2.2	LS2.4	LS3.2	LS3.3	LS3.4	LS4.2	LS4.2	LS4.4
	MISC DESIGN OPTIONS	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0
	DSA 103 EXAMPLE	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3	LS1.2 LS1.3
	"									
	"									

STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
- INCLUDE "MISC DESIGN OPTIONS" SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

STEP 10: IDENTIFY PROJECT NAME AND LOCATION

PROJECT NAME:	SCHOOL DISTRICT:
GEORGE WASHINGTON ES MODERNIZATION	LODI UNIFIED SCHOOL DISTRICT

STEP 11: CROSS OUT EXAMPLE 103 FORMS & INCORPORATE REQUIRED SPECIAL INSPECTIONS 103 FORMS THAT ARE PROJECT SPECIFIC

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

SELECT ONE

SNOW
Pg = 0 psf
Pf = 0 psf
Ce = 0 psf

WIND
V = 94 mph < XX mph
Kzt = 1.0 <1
EXPOSURE: C☒ D☐

SIESMIC
☒ DESIGN BASED ON SITE CLASS D
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 0.617 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHNICAL INVESTIGATION PROVIDED
SITE CLASS: C☐ D☐ E☐
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

☐ DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, Sds, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT
CGS APPROVAL REQUIRED
NOT ELEGIBLE FOR OTC REVIEW
SITE CLASS: C☐ D☐ E☐

Sds = Fa Ss = 0.537
☒ SITE CLASS C or D: 0.7 x Sds* = 0.7 x 0.537 = 0.376 ≤ X.XX
☐ SITE CLASS E: Sds = _____ ≤ X.XX
Cs= X.XXX USED IN DESIGN
SEISMIC DESIGN CATEGORY D☒ E☐
*SITE SPECIFIC Sds VALUE BEFORE APPLYING REDUCTION ALLOWED BY ASCE 7 SECTION 12.8.1.3

ABBREVIATIONS:

ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RIB ROOF PANEL (MCELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATLS	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
C.J.P	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INCHES	SS	STANDING SEAM ROOF PANEL (MCELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH

ARCHITECTURAL REQUIREMENTS

DESCRIPTION	DESIGN VAULES
TYPE OF CONSTRUCTION	II-B
OCCUPANCY CLASSIFICATION	A-3
NUMBER OF STORIES	1
~~FIRE SPRINKLER SYSTEM~~	~~NOT BY ICON, WEIGHT NOT INCLUDED IN DESIGN~~
~~MOST COMMON RG20 MIN/MAX SQ.FT (SEE STEP 1)~~	~~480/2,880~~
MOST COMMON RG30 MIN/MAX SQ.FT (SEE STEP 1)	720/3,120
~~MOST COMMON RG40 MIN/MAX SQ.FT (SEE STEP 1)~~	~~960/4,160~~

AREA OVER 4000 SQFT REQUIRES GEOHAZARD REPORT
ALLOWABLE AREA FOR II-B / A-3 IS 9500 SQ.FT

RELATED BUILDING CODES AND STANDARDS

TITLE 24 CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
2022 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
2022 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
2022 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)
2022 CALIFORNIA FIRE CODE (CFC) .....(PART 9, TITLE 24, CCR)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
2022 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST I BREA, CA 92821
T. 714.524.1870 I F. 714.524.1875
WWW.JRMA.COM

Aug 31, 2023

GEORGE WASHINGTON ELEMENTARY
931 W LOCKEFORD ST
LODI, CA 95240

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122180 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

GENERAL INFO

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004. ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.0

PRINTED ON :

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APP: 02-121905 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

GENERAL:

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS, EXCEPT AS AMENDED BY CBC CHAPTER 35.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEC REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS. SEE CBC CHAPTER 7A FOR REQUIREMENTS
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. VIEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), Fy = 46 KSI. MIN.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, Fy = 36 KSI.
6. ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, Fy= 50 KSI.
7. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, Fy = 50 KSI Fu = 65 KSI
8. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
9. ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
10. ALL ROOF DECKS SHALL CONFORM TO ASTM A-792, Fy = 50 KSI.
11. ALL BASE CONNECTIONS ARE A PART OF THE LATERAL FORCE RESISTING SYSTEM

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
2. FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. FOR THE SITE SPECIFIC PROJECT, J.R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
6. J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

1. A DSA-CERTIFIED CLASS 3 (MINIMUM) PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
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 THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL 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

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (0° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE HOT DIPPED GALVANIZED ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO HOT DIPPED GALVANIZED ASTM A-563 GRADE DH.
2. HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS – INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
5. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME
BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S
USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.
   A) PRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
      1. TURN-OF-NUT PRETENSIONING: PER SECTION 8.2.1 OF THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS* , WASHERS ARE NOT REQUIRED FOR THIS METHOD, THE NUT OR HEAD SHALL BE ROTATED AS SPECIFIED IN TABLE 8.2. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
      2. CALIBRATED WRENCH: PER THE *SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS*, WASHERS ARE REQUIRED (NOT SUPPLIED BY ICON) THESE SHALL BE INSTALLED PER THE INSTALLATION TORQUE DETERMINED IN THE PRE-INSTALLATION VERIFICATION OF THE FASTENER ASSEMBLY PER SECTION 7. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
      3. IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH "PT REQUIRED"

   B) ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF THE SNUG-TIGHTENED JOINTS. SNUG TIGHT CONDITION EXISTS WHEN ALL PLIES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

FOUNDATIONS:

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE. PASSIVE PRESSURE IS ASSUMED TO START 12" BELOW TOP OF FOOTING.
2. PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
5. MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET
6. PER CBC SECTION 1803A.6, GEOHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIESMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
7. GEOHAZRD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
8. SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IF USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
9. LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 FOR THE 1/2" DEFLECTION & HAS BEEN DESIGNED FOR P-DELTA EFFECTS. NO 1/3 INCREASE HAS BEEN APPLIED.
10. MINIMUM CLEARANCE BETWEEN PIERS SHALL BE 8'-0".

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH Pc (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SLUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.44	0.35	3"	150 PCF

2. CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0=0, F1=4.5, F2=6
3. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA.
4. AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.005. MAX AGGREGATE SIZE = 1".
5. CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
7. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
8. CONCRETE DURABILITY SHALL BE PER CBC 1904A.1 ACI 318-19, CHAPTER 19.
9. CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-19, SECTION 26.12.
10. NO ADMIXTURE SHALL CONTAIN CALCIUM CHLORIDE.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:
   GR 60: (#4 BARS AND LARGER)
   GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:
   A. CAST AGAINST EARTH .....3"
   B. CAST AGAINST FORM BELOW GRADE .....2"
   C. FORMED SLABS (#11 BAR & SMALLER).....3/4"
   D. SLABS ON GRADE (FROM TOP OF SLAB).....1"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPLICED PER ACI 318-19, SECTION 25.5.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED.
8. REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWNG SPECIFICATIONS:

1. THE STEEL FRAME (HSS SECTIONS, COLD FORMED & PLATE STEEL) SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
2. THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN MINIMUM THREE STAGE ELECTRO DEPOSITION PRE-TREATEMENT PROCESS.
3. IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY COATED IN AN EPOXY PRIMER TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
4. THE STEEL SHALL THEN HAVE A TGIC POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.
5. THE FINISH THICKNESS OF THESE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
6. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES & COLD FORMED STEEL ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE "AND THE "AISC SPECIFICATION SECTION M3"(UNLESS NOTED OTHERWISE).

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
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Aug 31, 2023

GEORGE WASHINGTON ELEMENTARY
931 W LOCKEFORD ST
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122180 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

GENERAL INFO

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
WWW.ICONSHELTERS.COM
COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
1455 LINCOLN AVE
HOLLAND MI, 49423

616.396.0919
800.748.0985
616.396.0944 FX

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS1.1

PRINTED ON :

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122188 | School Name: PC Update | School District: PC Update
DSA File Number: | Increment Number: | Date Created: 2023-04-19 08:36:32

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that the continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188 | School Name: PC Update | School District: PC Update
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Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by GE

	S1. GENERAL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.)

	S2. SOIL COMPACTION AND FILL:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☑	b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) form for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
☑	c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188 | School Name: PC Update | School District: PC Update
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	Test or Special Inspection	Type	Performed By	Code References and Note
☐	b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☐	c. Confirm adequate end strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☐	d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

	S5. RETAINING WALLS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Placement, compaction and inspection of backfill.	Continuous	GE*	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
☐	b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c. Segmental retaining walls; Inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
☐	d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188 | School Name: PC Update | School District: PC Update
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	S6. OTHER SOILS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Soil Improvements	Test	GE*	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-122188 | School Name: PC Update | School District: PC Update
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	S3. DRIVEN DEEP FOUNDATIONS (PILES):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☐	c. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	e. Steel piles.	Provide tests and inspections per STEEL section below.		
☐	f. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

	S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: 04-122188 | School Name: PC Update | School District: PC Update
DSA File Number: | Increment Number: | Date Created: 2023-04-19 08:36:32

	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☑	d. Test concrete (f'c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☐	e. Batch plant inspection:	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

	C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
☐	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13, Special inspector to verify specified concrete strength test prior to stressing.
☐	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

	C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13.
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
☐	c. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints. 3. Completion of connections in the field.	Continuous	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5
☐	d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3; ACI 318-19 Section 26.13.1.3; ACI 550.5

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

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	C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506.4-16.
☐	b. Sample and test shotcrete (f'c).	Test	LOR	1908A.2, 1705A.3.9

	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

	C6. OTHER CONCRETE:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS Z1.8

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	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a–3c, 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b. Test unidentified materials	Test	LOR	2202A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
☑	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
☐	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

	S/A2. HIGH-STRENGTH BOLTS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☑	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. **"Continuous" or "Periodic" depends on the tightening method used.

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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A3. WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
☐	c. Bond strength adhesion/cohesion.	Test	LOR	1705A.15.1, 1705A.15.4, ASTM E605

	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	S/A10. STORAGE RACK SYSTEMS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7
☐	b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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Exempt items given in DSA IR A-2 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment – see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior non-structural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A3. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect end welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
☐	d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

	S/A11. Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

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	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max'd-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	b. Magnetic particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	S/A7. STEEL JOISTS AND TRUSSES:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

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	X1. OTHER:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Load test for identified product(s):	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
☐	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐	c.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2022 CBC

Application Number: 04-122188
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Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

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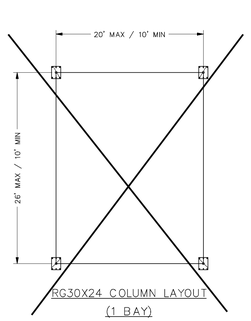
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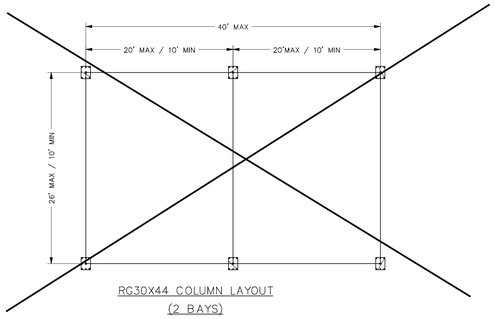
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Code: 2022 CBC
A separate project application for construction is required.

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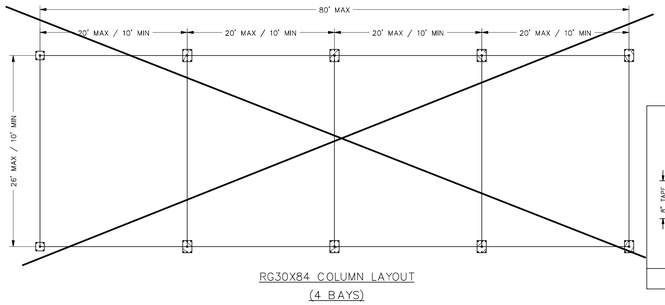
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SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024



RG30X24 COLUMN LAYOUT
(1 BAY)

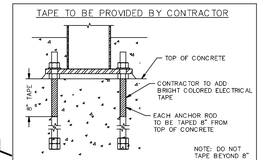


RG30X44 COLUMN LAYOUT
(2 BAYS)

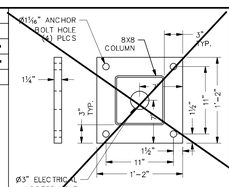


RG30X84 COLUMN LAYOUT
(4 BAYS)

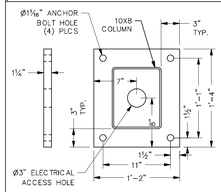
BASE PLATE LOCATION		
	DETAIL A	DETAIL B
8"	BP1	BP3
10"	BP1	BP3
12"	BP2	BP3



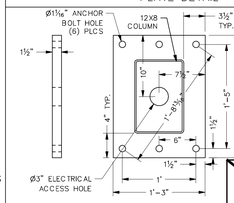
ANCHOR ROD TAPE REQUIREMENT — SCALE: N.T.S. — C2



8X8 COLUMN BASE PLATE DETAIL — BP1



10X8 COLUMN BASE PLATE DETAIL — BP2



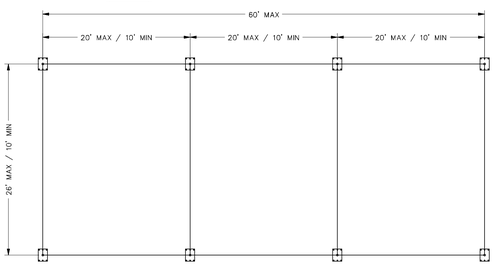
12X8 COLUMN BASE PLATE DETAIL — BP3

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DATE	3/21/2023
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REV DATE	

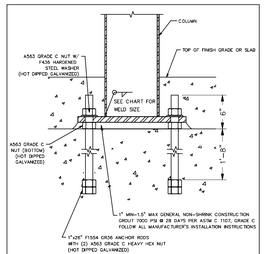
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831 W LOCKEFORD ST
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RG30X64 COLUMN LAYOUT
(3 BAYS)



NOTES:
COLUMN BASE PLATES ARE TO HAVE DOUBLE NUTS. PLACE ONE NUT UNDER THE PLATE AND ONE NUT ON TOP WITH A WASHER UNDER THE NUT.

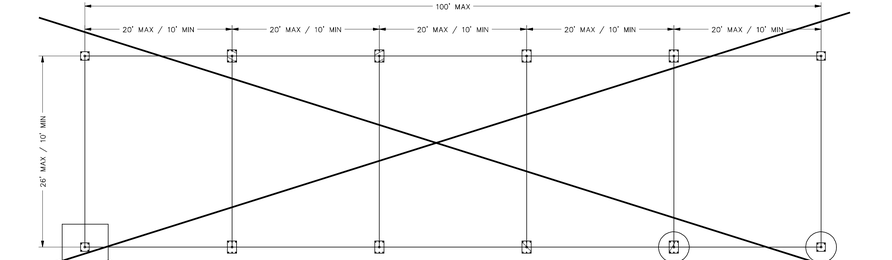
THE BOTTOM NUT CAN BE USED AS A LEVELING NUT.

AFTER COLUMN IS SET AND LEVELED AND THE NUTS HAVE BEEN TIGHTENED THE COLUMN MUST HAVE NON-SHRINK GROUT PLACED UNDER THE BASE PLATE BEFORE COVERING THE BASE WITH CONCRETE.

REFER TO FOOTING DETAIL FOR ROD/NUT LOCATIONS AND SIZE.

FOUNDATION ANCHORS ARE TO BE UNTORQUED.

COLUMN BASE CONNECTION DETAIL — SCALE: N.T.S. — C1



RG30X104 COLUMN LAYOUT
(5 BAYS)

MID COLUMNS

END COLUMNS

ANCHOR ROD DETAIL
1.HEAT TREATED
2.MAX CARBON CONTENT-27%
3.MAX MANGANESE CONTENT
0.6 TO 0.9%

NOTES:
COLUMN SIZE AND LOCATION WILL VARY DEPENDING ON MODEL TYPE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL FOR CORRECT PLACEMENT AND SIZE.

WHERE CONCRETE SLAB SPECIFIED PORTLAND CEMENT CONCRETE PAVING SHALL HAVE A MEDIUM SALTED (MEDIUM BROOM) FINISH ON ALL SURFACES SLOPED LESS THAN 6% AND SLIP RESISTANT (HEAVY BROOM FINISH) ON ALL SURFACES SLOPED GREATER THAN 6% CBC SECTION 1133B.7.1

30' WIDE RECTANGULAR GABLE

ALL ANCHOR RODS SHALL BE 1"X26" U.N.O.

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DATE: 09/21/2023

RG30 - PIER

8' height - End Columns				8' height - End Columns				8' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	122	8	6	30	104	8	6	30	94	8	6
8' height - Side Columns				8' height - Side Columns				8' height - Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
48	138	12	8	36	132	8	8	36	118	8	8
8' Eave - 1500 psf [ ]				8' Eave - 2000 psf [ ]				8' Eave - 3000 psf [ ]			

8' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
11	47	6	5/16
8' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	8	3/8
8' Eave - Rebar & Weld			

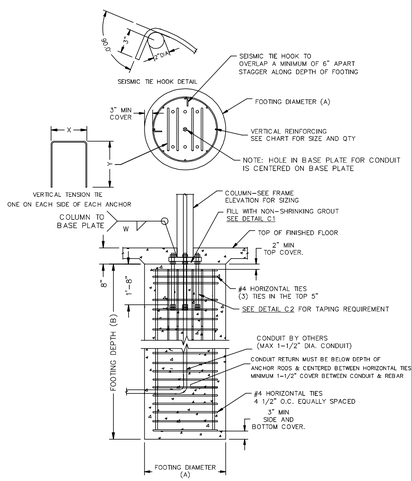
10' height - End Columns				10' height - End Columns				10' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	116	8	6	30	100	8	6	30	90	8	6
10' height - Side Columns				10' height - Side Columns				10' height - Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
42	136	10	8	36	124	8	8	36	112	8	8
10' Eave - 1500 psf [ ]				10' Eave - 2000 psf [ ]				10' Eave - 3000 psf [ ]			

10' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
11	59	7	5/16
10' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	6	5/16
10' Eave - Rebar & Weld			

12' height - End Columns				12' height - End Columns				12' height - End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
30	122	8	6	30	104	8	6	30	94	8	6
12' height - Side Columns				12' height - Side Columns				12' height - Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size	Dia (A) (in)	Depth (B) (in)	Vertical Rebar Qty	Rebar Size
36	140	8	8	36	120	8	8	36	108	8	8
12' Eave - 1500 psf [x]				12' Eave - 2000 psf [ ]				12' Eave - 3000 psf [ ]			

12' End Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
13	59	7	5/16
12' Side Columns			
Tension Rebar Dimensions			Weld
X (in)	Y (in)	Rebar Size	Fillet Weld "W"
17	65	8	3/8
12' Eave - Rebar & Weld			

SEE BASE PLATE DETAILS FOR CORRECT ANCHOR LAYOUT



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
B1 & B2 ARE A (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

RG30 - SPREAD

8' End Columns				8' End Columns				8' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
66	30	9	6	62	30	8	6	63	30	8	6
8' Side Columns				8' Side Columns				8' Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
96	30	12	6	96	30	12	6	80	30	10	6
8' Eave - 1500 psf [ ]				8' Eave - 2000 psf [ ]				8' Eave - 3000 psf [ ]			

10' End Columns				10' End Columns				10' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
66	30	9	6	62	30	8	6	63	30	8	6
10' Side Columns				10' Side Columns				10' Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
84	30	11	6	84	30	11	6	78	30	10	6
10' Eave - 1500 psf [ ]				10' Eave - 2000 psf [ ]				10' Eave - 3000 psf [ ]			

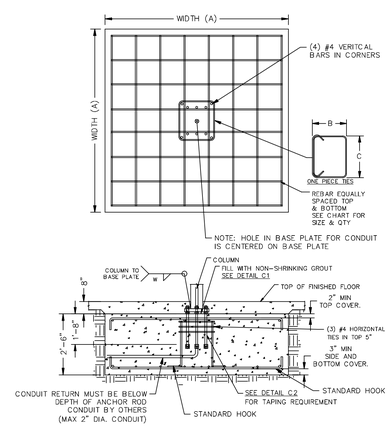
12' End Columns				12' End Columns				12' End Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
69	30	9	6	68	30	9	6	68	30	9	6
12' Side Columns				12' Side Columns				12' Side Columns			
Soil Class 5 - 1500 psf Bearing				Soil Class 4 - 2000 psf Bearing				Soil Class 3 - 3000 psf Bearing			
Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size	Size (A) (in)	Depth (in)	T&B Rebar Qty	Rebar Size
84	30	11	6	78	30	10	6	78	30	10	6
12' Eave - 1500 psf [x]				12' Eave - 2000 psf [ ]				12' Eave - 3000 psf [ ]			

8' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	17.5	4	5/16
8' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	3/8
8' Eave - Rebar & Weld			

10' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	17.5	4	5/16
10' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	5/16
10' Eave - Rebar & Weld			

12' End Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
16	19.5	4	5/16
12' Side Columns			
Tie Dimensions			Weld
B (in)	C (in)	Rebar Size	Fillet Weld "W"
17	23.5	4	3/8
12' Eave - Rebar & Weld			

SEE BASE PLATE DETAILS FOR CORRECT ANCHOR LAYOUT



SEE DETAILS BP1, BP2 OR BP3 FOR ANCHOR BOLT PATTERNS
B1 & B2 ARE A (4) BOLT PATTERN WHILE B3 IS A (6) BOLT

30' WIDE RECTANGULAR GABLE FOUNDATION PLAN

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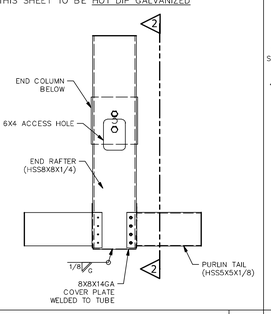
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S:\Engineering\Inventor\DSA 2019\PC 2019 RG DSA\30 FOOT WIDE\DSA RG30-P4.dwg

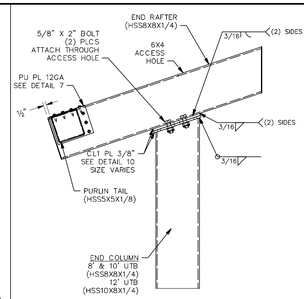
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SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024

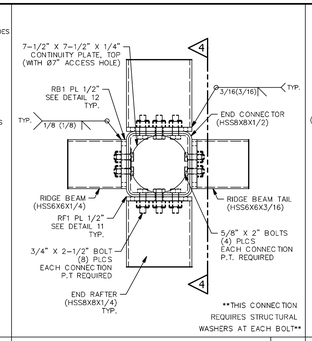
ALL STRUCTURAL FASTENERS (NUTS, BOLTS & WASHERS) ON THIS SHEET TO BE HOT DIP GALVANIZED



PLAN – PURLIN & END RAFTER CONNECTIONS @ END COLUMN | 1

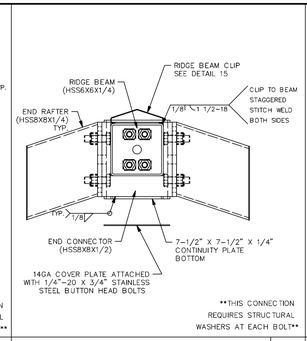


VIEW – PURLIN & END RAFTER CONNECTIONS @ END COLUMN | 2



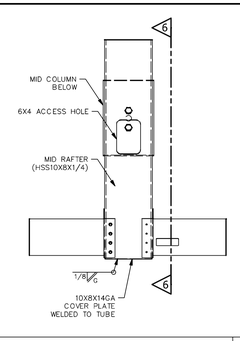
THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

PLAN – END RAFTER & RIDGE BEAM CONNECTIONS @ END CONNECTOR | 3

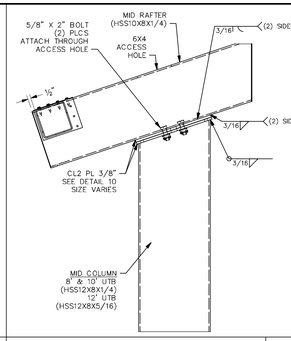


THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

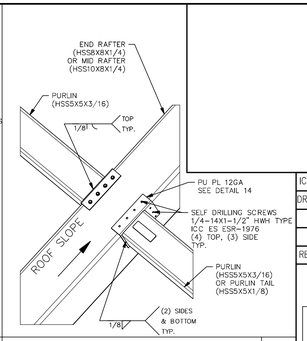
VIEW – END RAFTER & RIDGE BEAM CONNECTIONS @ END CONNECTOR | 4



PLAN – PURLIN & MID RAFTER CONNECTIONS @ MID COLUMN | 5



VIEW – PURLIN & MID RAFTER CONNECTIONS @ MID COLUMN | 6



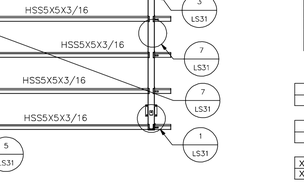
ISOMETRIC – PURLIN CONNECTIONS @ RAFTER | 7

THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

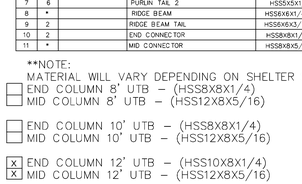
PLAN – MID RAFTER & RIDGE BEAM CONNECTIONS @ MID CONNECTOR | 8

THIS CONNECTION REQUIRES STRUCTURAL WASHERS AT EACH BOLT

VIEW – MID RAFTER & RIDGE BEAM CONNECTIONS @ MID CONNECTOR | 9

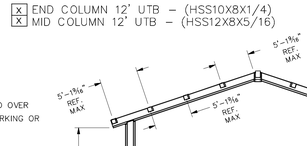


COLUMN TO RAFTER PLATE DETAILS | 10

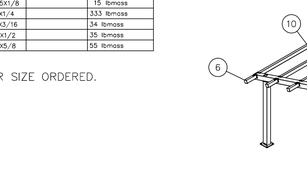


8X8 END RAFTER PLATE DETAIL | 11

RIDGE BEAM PLATE DETAIL | 12



10X8 MID RAFTER PLATE DETAIL | 13



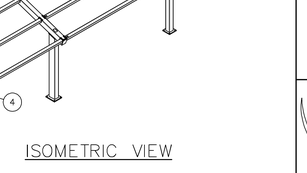
PURLIN PLATE DETAIL | 14



SECTION PROPERTIES
A=0.657 in^2 Fy=36 ksi
Ix=0.087 in^4 Sx=0.03 in^3
Iy=2.92 in^4 Sy=0.97 in^3

RIDGE BEAM CLIP (6" WIDE BEAM) | 15

TYPICAL NUT RESTRAINING SYSTEM | NR



ALL BOLTS ARE ASTM F3125 OR A325 HIGH STRENGTH BOLTS GALVANIZED PER SHEET LS1.0

TYPICAL BOLT RESTRAINING SYSTEM | BR

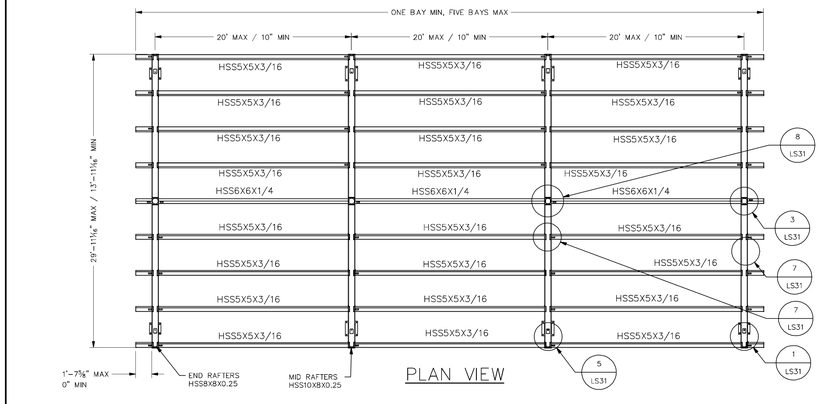
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DATE: 09/21/2023

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
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REV DATE	

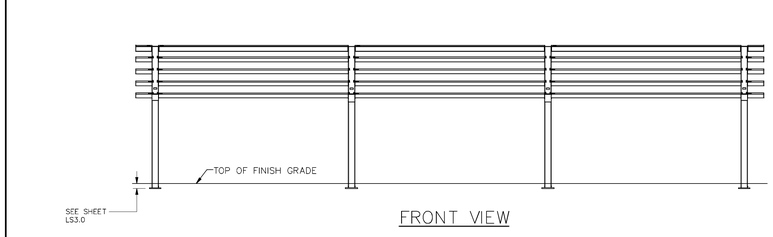
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Aug 31, 2023

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831 W LOCKEFORD ST
LODI, CA 95240



PLAN VIEW



FRONT VIEW

*NOTE:
QUANTITIES WILL VARY DEPENDING ON SHELTER SIZE ORDERED, PLEASE REFER TO JOB SPECIFIC BILL OF MATERIALS AND INSTALLATION MANUAL.

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	LENGTH	UNIT WEIGHT
1	4		END COLUMN	**SEE NOTE BELOW		285 lbm/ass
2	*		MID COLUMN	**SEE NOTE BELOW		381 lbm/ass
3	4		END RAFTER	HSS8X8X1/4		414 lbm/ass
4	*		MID RAFTER	HSS10X8X1/4		475 lbm/ass
5	**		PURLIN	HSS5X5X3/16		234 lbm/ass
6	6		PURLIN TAIL 1	HSS5X5X1/8		15 lbm/ass
7	6		PURLIN TAIL 2	HSS5X5X1/8		15 lbm/ass
8	*		RIDGE BEAM	HSS6X6X1/4		333 lbm/ass
9	2		RIDGE BEAM TAIL	HSS6X6X3/16		34 lbm/ass
10	2		END CONNECTOR	HSS8X8X1/2		35 lbm/ass
11	*		MID CONNECTOR	HSS8X8X5/8		55 lbm/ass

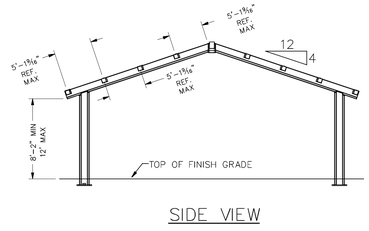
**NOTE:
MATERIAL WILL VARY DEPENDING ON SHELTER SIZE ORDERED.
☐ END COLUMN 8' UTB – (HSS8X8X1/4)
☐ MID COLUMN 8' UTB – (HSS12X8X5/16)

☐ END COLUMN 10' UTB – (HSS8X8X1/4)
☐ MID COLUMN 10' UTB – (HSS12X8X5/16)

☒ END COLUMN 12' UTB – (HSS10X8X1/4)
☒ MID COLUMN 12' UTB – (HSS12X8X5/16)

98" MIN IF USED OVER ACCESSIBLE PARKING OR ACCESS AISLES

114" MIN IF LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES

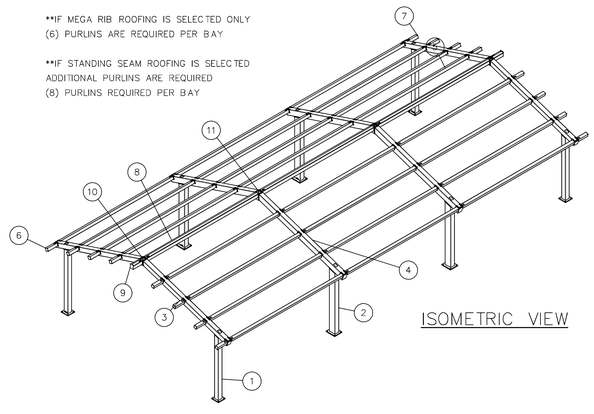


SIDE VIEW

**IF MULTI RIB ROOFING IS SELECTED ONLY
(6) PURLINS ARE REQUIRED PER BAY

**IF MEGA RIB ROOFING IS SELECTED ONLY
(6) PURLINS ARE REQUIRED PER BAY

**IF STANDING SEAM ROOFING IS SELECTED
ADDITIONAL PURLINS ARE REQUIRED
(8) PURLINS REQUIRED PER BAY



ISOMETRIC VIEW

MODEL DESIGNATION	
RG30X24	1 BAY
RG30X44	2 BAY
RG30X64	3 BAY
RG30X84	4 BAY
RG30X104	5 BAY

MODEL SHOWS 3 BAY SHELTER (RG30X64)
PLEASE REFER TO ANCHOR BOLT LAYOUT SHEET FOR CORRECT COLUMN PLACEMENT BASED ON SIZE ORDERED

30' WIDE RECTANGULAR GABLE

30' WIDE RECTANGULAR GABLE FRAMING & CONNECTION DETAILS

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HOLLAND MI, 49423
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800.748.0985
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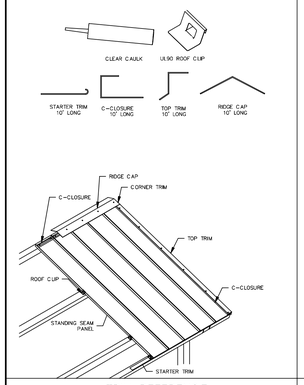
LS3.1

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

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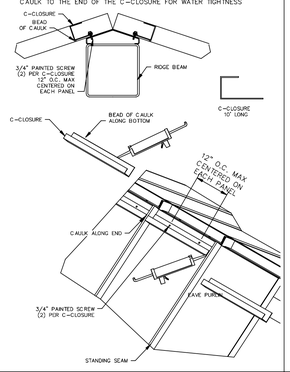
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APP: 02-121905 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/19/2024



TRIM REFERENCE

TO INSTALL C-CLOSURES ALONG THE RIDGE MEASURE, MARK & CUT THE C-CLOSURE TO LENGTH.

APPLY A 1/4" BEAD OF CAULK TO THE BOTTOM OF THE C-CLOSURE AND FASTEN IT TO THE ROOF WITH (2) 3/4" PAINTED SCREWS (12" O.C. MAX CENTERED ON EACH PANEL) ALONG THE RIDGE BEAM. THEN APPLY CAULK TO THE END OF THE C-CLOSURE FOR WATER TIGHTNESS

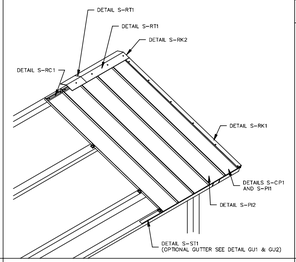


INSTALLATION OF C-CLOSURE @ RIDGE — S-RC1

THESE DETAILS ASSUME THAT ALL COMPONENTS OF THIS ROOF SYSTEM WILL BE INSTALLED PLUMB AND SQUARE. CAULK AND TRIM SHOULD ALSO BE INSTALLED TO ENSURE WATER TIGHTNESS

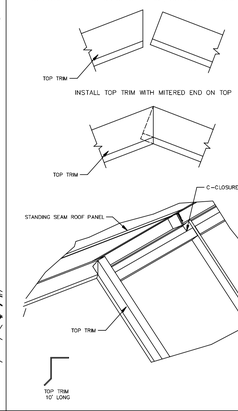
READ ALL DETAILS IN THIS INSTALLATION MANUAL BEFORE STARTING

S-ST1 STARTER TRIM
S-CP1 ROOF PANEL PREPARATION
S-PI1 FIRST ROOF PANEL
S-PI2 SECOND ROOF PANEL
S-RK1 TOP TRIM & C-CLOSURE @ RAKE
S-RC1 C-CLOSURE @ RIDGE
S-RK2 RIDGE CORNER TRIM
S-RT1 RIDGE CAP



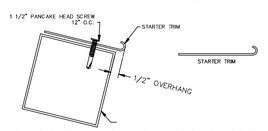
ORDER OF INSTALLATION

TO FINISH OFF THE END OF THE RIDGE, CUT THE TOP TRIM AS SHOWN.



INSTALLATION OF CORNER TRIM — S-RK2

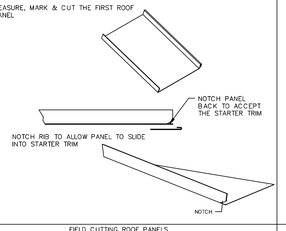
INSTALL STARTER TRIM OVERHANGING THE EDGE OF THE EAVE PURLIN 1/2". ATTACH STARTER TRIM WITH 1 1/2" PANCAKE HEAD SCREWS 12" O.C.



NOTE: SEE DETAILS GU1 AND GU2 IF INSTALLING OPTIONAL GUTTER SYSTEM

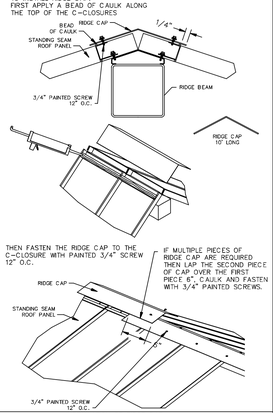
STARTER INSTALLATION — S-ST1

MEASURE, MARK & CUT THE FIRST ROOF PANEL



FIELD CUTTING ROOF PANELS — S-CP1

TO INSTALL RIDGE CAP:
FIRST APPLY A BEAD OF CAULK ALONG THE TOP OF THE C-CLOSURES

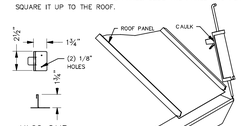


THEN FASTEN THE RIDGE CAP TO THE C-CLOSURE WITH PAINTED 3/4" SCREW 12" O.C.

IF MULTIPLE PIECES OF RIDGE CAP ARE REQUIRED THEN LAP THE SECOND PIECE OF CAP OVER THE FIRST PIECE 6", CAULK AND FASTEN WITH 3/4" PAINTED SCREWS.

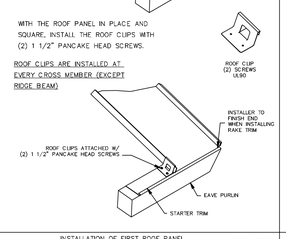
INSTALLATION OF RIDGE CAP — S-RT1

AFTER THE ROOF PANEL HAS BEEN CUT TO SIZE (IF NECESSARY) AND NOTCHED, TEST FIT THE PANEL. THEN APPLY A BEAD OF CAULK THE APPROXIMATE LENGTH OF THE PANEL. SLIDE THE PANEL INTO PLACE, AND SQUARE IT UP TO THE ROOF.



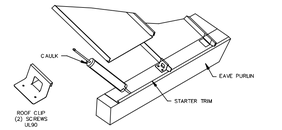
WITH THE ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) 1 1/2" PANCAKE HEAD SCREWS.

ROOF CLIPS ARE INSTALLED AT EVERY CROSS MEMBER (EXCEPT RIDGE BEAM)



INSTALLATION OF FIRST ROOF PANEL — S-PI1

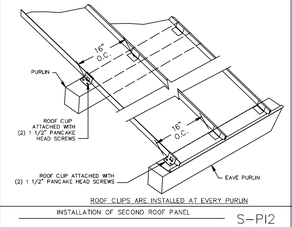
AFTER THE SECOND ROOF PANEL HAS BEEN CUT TO LENGTH (IF NECESSARY) AND NOTCHED, TEST FIT PANEL. THEN APPLY A BEAD OF CAULK INSIDE THE STARTER TRIM. SLIDE THE SECOND ROOF PANEL IN PLACE AND SNAP IT OVER THE BATTEN OF THE FIRST PANEL



WITH THE SECOND ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) 1 1/2" PANCAKE HEAD SCREWS.

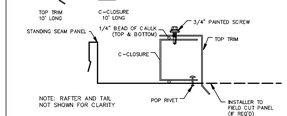
REPEAT THIS STEP UNTIL ALL ROOF PANELS ARE INSTALLED

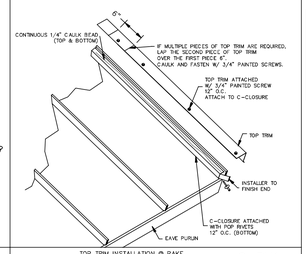
ROOF CLIPS ARE INSTALLED AT EVERY PURLIN



ROOF CLIPS ARE INSTALLED AT EVERY PURLIN

INSTALLATION OF SECOND ROOF PANEL — S-PI2





TOP TRIM INSTALLATION @ RAKE — S-RK1

ROOF NOTES

ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

INSTALLED CORRECTLY	INSTALLED TOO TIGHT	INSTALLED TOO LOOSE
THE SEALING MATERIAL SLIGHTLY VISIBLE AROUND THE METAL WASHER	THE SEALING MATERIAL IS DEFORMED BEYOND THE EDGE OF THE METAL WASHER	THE SEALING MATERIAL IS NOT VISIBLE AROUND THE EDGE OF THE METAL WASHER

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

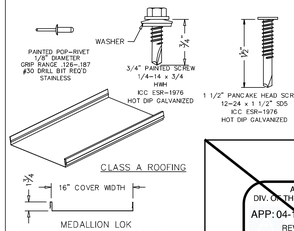
THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

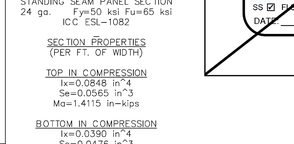
FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSPERSON AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.



CLASS A ROOFING



MEDALLION LOK
STANDING SEAM PANEL SECTION
24 ga. Fy=50 ksi Fu=65 ksi
ICC ESL-1082

SECTION PROPERTIES
(PER FT. OF WIDTH)

TOP IN COMPRESSION
Ix=0.0848 in^4
Se=0.0565 in^3
Ma=1.4115 in-kips

BOTTOM IN COMPRESSION
Ix=0.0390 in^4
Se=0.0476 in^3
Ma=1.0305 in-kips

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122188 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

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DATE	3/21/2023
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REV DATE	

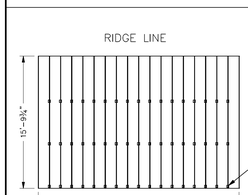
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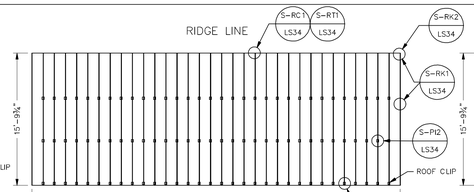
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LODI, CA 95240

30' WIDE RECTANGULAR GABLE STANDING SEAM ROOFING

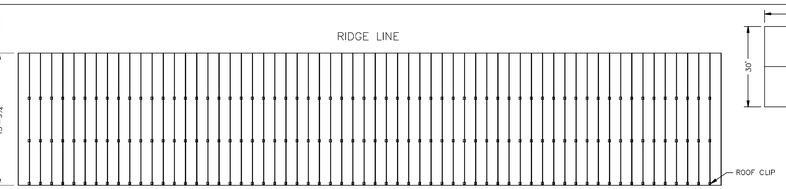
RIDGE LINE

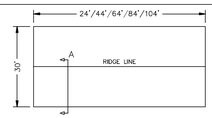


RIDGE LINE



RIDGE LINE

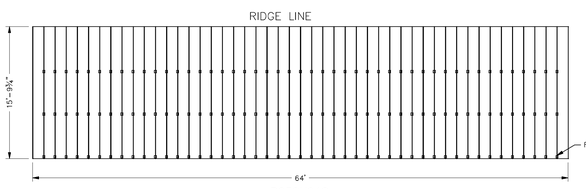


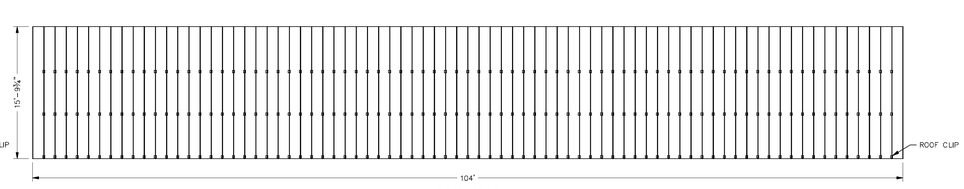


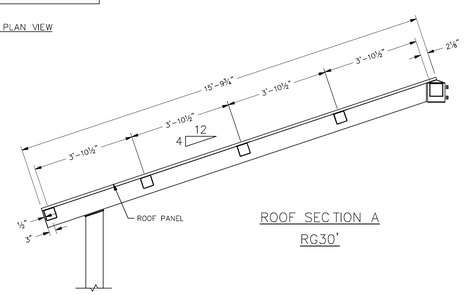
ROOF PLAN VIEW

INSTALLER TO FIELD CUT ALL ROOF PANELS

RIDGE LINE







ROOF SECTION A
RG30'

30' WIDE RECTANGULAR GABLE STANDING SEAM ROOFING PLAN

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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS3.4

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DATE: 12/19/2024

ELECTRICAL INFORMATION - RECTANGULAR GABLE

ICON'S STANDARD ELECTRICAL IS DESIGNED TO ACCOMMODATE Ø1/2" CONDUIT WITH A Ø3" INLET HOLE ON THE BOTTOM OF EACH COLUMN. THE CONDUIT PATHWAY RUNS THROUGH THE COLUMN, RAFTER, AND RIDGE BEAM THROUGH ALL BOLTED CONNECTIONS AS SHOWN. IF YOU HAVE SPECIAL ELECTRICAL REQUIREMENTS, PLEASE OUTLINE ANY CHANGES BELOW AS DESCRIBED.

PLEASE NOTE: DESIGN LIMITATIONS ON HOLE/CUTOUT SIZES MAY APPLY. ICON WILL REACH OUT TO DISCUSS ANY SUCH LIMITATIONS AS NEEDED.

NOTE: ICON SHELTER FRAME IS NOT UL LISTED TO ACT AS A CONDUIT FOR ELECTRICAL WIRING. CONSULT LOCAL BUILDING CODES WHEN PLANNING YOUR ELECTRICAL SYSTEM.

STEPS:

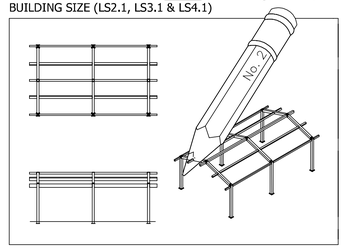
1. CONDUIT HOLE SIZE (DETAIL A)

2. ELECTRICAL EXIT HOLES (DETAIL B)

3. ELECTRICAL ACCESS & COVER PLATES (DETAIL C)

4. ELECTRICAL CONDUIT PATHWAY (DETAIL D)

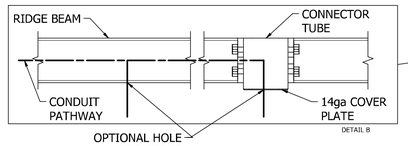
☐ IF REQUIRED, PLEASE DRAW THE NECESSARY ELECTRICAL CONDUIT PATHWAY ON THE FRAME SHEET REQUIRED FOR BUILDING SIZE (LS2.1, LS3.1 & LS4.1)



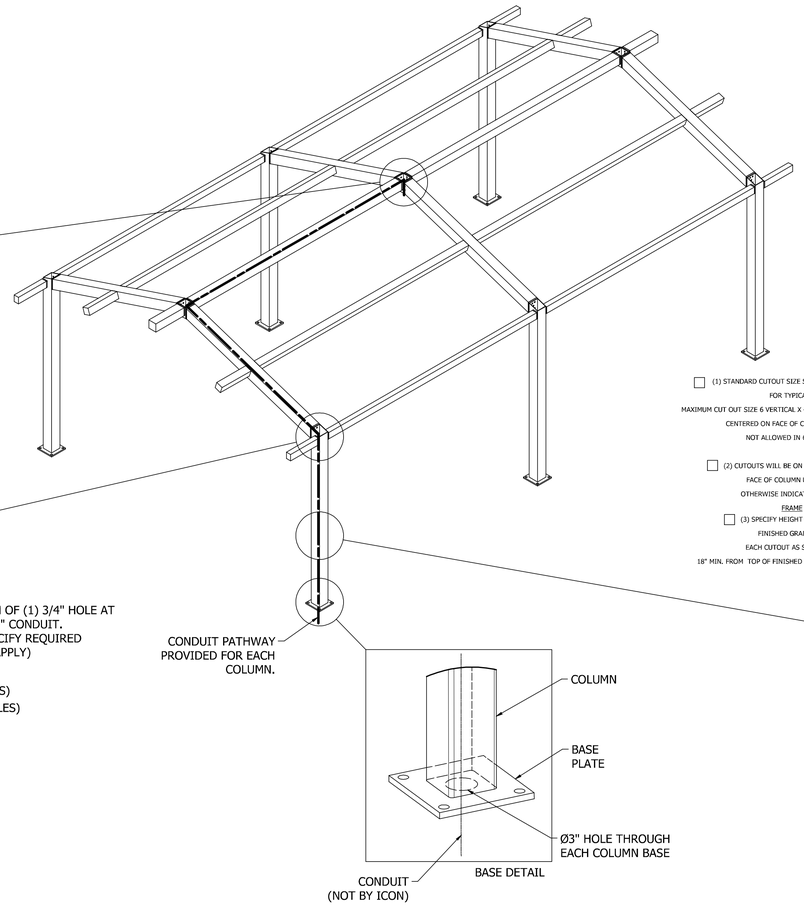
DETAIL D

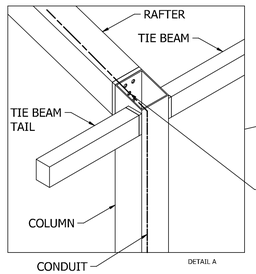
OPTIONAL EXIT HOLES
IF REQUIRED, EXIT HOLES FOR LIGHTING, ETC. CAN BE PLACED IN THE RIDGE BEAM AND/OR CONNECTOR TUBE WITH 14ga COVER PLATE AS SHOWN (CHARGES APPLY)
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED EXIT HOLE LOCATIONS AND SIZES.

(1) EXIT HOLE PER CONNECTOR
(2) EXIT HOLES PER RIDGE BEAM



DETAIL B





DETAIL A

ICON PROVIDES A MINIMUM OF (1) 3/4" HOLE AT EACH CONNECTION FOR 1/2" CONDUIT.
IF APPLICABLE, PLEASE SPECIFY REQUIRED CONDUIT SIZE: (CHARGES APPLY)

☐ 3/4" CONDUIT (1" HOLES)
☐ 1" CONDUIT (1 1/4" HOLES)

CONDUIT PATHWAY PROVIDED FOR EACH COLUMN.

BASE DETAIL

NOTE: BUILDING DEPICTED ON THIS SHEET FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LAYOUT AND FRAME MEMBER QUANTITIES VARY BY DESIGN. PLEASE REFER TO ELEVATION AND FRAME SHEETS IN THIS PC FOR ORDER-SPECIFIC CONFIGURATION.

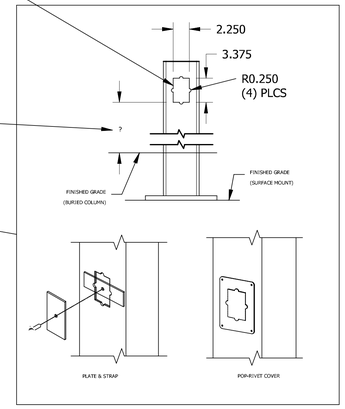
PROVIDE GROUNDING PER CEC ARTICLE 250

OPTIONAL CUTOUTS
USE FRAME SHEET OF THIS PRELIMINARY TO SPECIFY REQUIRED CUTOUT LOCATIONS (CHARGES APPLY)
SEE REQUIRED INFO BELOW

☐ (1) STANDARD CUTOUT SIZE SHOWN FOR TYPICAL GFCI
MAXIMUM CUT OUT SIZE 6 VERTICAL X 4 WIDE
CENTERED ON FACE OF COLUMN
NOT ALLOWED IN 6" FACE

☐ (2) CUTOUTS WILL BE ON INSIDE FACE OF COLUMN UNLESS OTHERWISE INDICATED ON FRAME SHEET.

☐ (3) SPECIFY HEIGHT ABOVE FINISHED GRADE FOR EACH CUTOUT AS SHOWN
18" MIN. FROM TOP OF FINISHED GRADE



DETAIL C

(4) COVER PLATES PROVIDED UPON REQUEST (CHARGES APPLY)
PLEASE SPECIFY TYPE AND QUANTITY REQUIRED:

☐ PLATE & STRAP
☐ POP-RIVET COVER PLATE (STAINLESS POP RIVET)
HOW MANY REQUIRED?_____

ICON STD	RG/DSA-PC
DRAWN BY	JD
DATE	3/21/2023
REV	
REV DATE	

JRMA
ARCHITECTS ENGINEERS
2700 SATURN ST BREA, CA 92821
T. 714.524.1870 F. 714.524.1875
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Aug 31, 2023

GEORGE WASHINGTON ELEMENTARY
931 W LOCKEFORD ST
LODI, CA 95240

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122189 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/21/2023

OPTIONAL ELECTRICAL ACCESS

ICON Shelter Systems Inc
DISTINCTIVE STEEL SHELTERS
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HOLLAND MI, 49423

616.396.0919
800.748.0985
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PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

LS5.0

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