MATILIJA JUNIOR HIGH SCHOOL
GYM REROOFING AND LOCKER ROOM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

ABBREVIATIONS

Ø	DIAMETER	HR.	HOUR
&	AND	HT.	HEIGHT
CL OR C	CENTERLINE	INSUL.	INSULATION
#	POUND OR NUMBER	INT.	INTERIOR
A.B.	ANCHOR BOLT	JT.	JOINT
ABV.	ABOVE	LAM.	LAMINATE
ACP	ACOUSTICAL CEILING PANEL	LAV.	LAVATORY
A.D.	AREA DRAIN	LT.	LIGHT
ADJ.	ADJUSTABLE	MFR.	MANUFACTURER
A.F.F.	ABOVE FINISH FLOOR	MATR'L	MATERIAL
A.F.G.	ABOVE FINISH GRADE	MAX.	MAXIMUM
ALUM.	ALUMINUM	M.B.	MACHINE BOLT
BLDG.	BUILDING	MECH.	MECHANICAL
BLKG.	BLOCKING	MIN.	MINIMUM
BM.	BEAM	MISC.	MISCELLANEOUS
B.O.B.	BOTTOM OF BEAM	M.R.	MOISTURE RESISTANT
BOT.	BOTTOM	MTL.	METAL
BTWN.	BETWEEN	(N)	NEW
CAB.	CABINET	N.I.C.	NOT IN CONTRACT
CALIF.	CALIFORNIA	NO. OR #	NUMBER
C.F.O.I	CONTRACTOR FURNISHED OWNER INSTALLED	N.T.S.	NOT TO SCALE
		O/	OVER
C.I.P.	CAST IN PLACE	O.C.	ON CENTER
CJ	CONSTRUCTION JOINT	O.F.C.I.	OWNER FURNISHED CONTACTOR INSTALLED
C.J.	CONTROL JOINT		
C.L.	CHAIN LINK	O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
CLG.	CEILING		
CLR.	CLEAR	OPP.	OPPOSITE
CMU	CONCRETE MASONRY UNIT	PB	PULL BOX
C.O.	CLEAN OUT	PERF.	PERFORATED
C.O.C.	CENTER OF COLUMN	PL.	PLATE OR PLASTIC
COL.	COLUMN	PLAST.	PLASTER
COMP.	COMPOSITION	PLYWD.	PLYWOOD
CONC.	CONCRETE	PR.	PAIR
CONSTR.	CONSTRUCTION	PROJ.	PROJECTION
CONT.	CONTINUOUS	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
C.T.	CERAMIC TILE		
DBL.	DOUBLE	R OR RAD	RADIUS
DF	DOUGLAS FIR	REFL.	REFLECTED
D.F.	DRINKING FOUNTAIN	REFRIG.	REFRIGERATOR
DFCI	DISTRICT FURNISHED CONTRACTOR INSTALL	REINF.	REINFORCED OR REINFORCEMENT
DIA.	DIAMETER	REQ.	REQUIRED OR REQUIREMENTS
DIM.	DIMENSION		
DN	DOWN	RM.	ROOM
DR.	DOOR	S.C.	SOLID CORE
DWG	DRAWING	SCHED.	SCHEDULE
(E)	EXISTING	SHT'G	SHEATHING
EA	EACH	SHT.	SHEET
EJ	EXPANSION JOINT	SIM.	SIMILAR
ELECT.	ELECTRICAL	SJ	SAWCUT JOINT
ELEV.	ELEVATION	S.M.S.	SHEET METAL SCREWS
EQ	EQUAL	SQ.	SQUARE
EQUIP.	EQUIPMENT	S.S.	STAINLESS STEEL
EXIST.	EXISTING	ST.	STANDARD
EXT.	EXTERIOR	STL.	STEEL
FD	FLOOR DRAIN	STOR.	STORAGE
FDN.	FOUNDATION	STRUCT.	STRUCTURAL
F.E.	FIRE EXTINGUISHER	SUSP.	SUSPENDED
F.E.C.	FIRE EXTINGUISHER CABINET	T&B	TOP & BOTTOM
F.F.	FINISH FLOOR	TEMP.	TEMPERED
FIN.	FINISH	T.O.	TOP OF
FLR.	FLOOR	T.O.B.	TOP OF BEAM
F.O.C.	FACE OF CONCRETE	TS	TUBE STEEL
F.O.F.	FACE OF FINISH	T.W.	TOP OF WALL
F.O.S.	FACE OF STRUCTURE	TYP.	TYPICAL
FRAM'G	FRAMING	U.N.O.	UNLESS NOTED OTHERWISE
FRP	FIBERGLASS REINFORCED PANEL	U.O.N.	UNLESS OTHERWISE NOTED
		V.C.T.	VINYL COMPOSITION TILE
FT.	FOOT OR FEET	VERT.	VERTICAL
FTG.	FOOTING	V.G.D.F.	VERTICAL GRAIN DOUGLAS FIR
F.V.	FIELD VERIFY		
GA.	GAUGE	V.I.F.	VERIFY IN FIELD
GALV.	GALVANIZED	W/	WITH
GWB	GYPSUM WALL BOARD	WD.	WOOD
GYP. BD.	GYPSUM BOARD	W.O.	WHERE OCCURS
HDG	HOT DIP GALV	W.P.	WATERPROOF
HDR.	HEADER	W.R.	WATER RESISTANT
HORIZ.	HORIZONTAL	WT.	WEIGHT
H.M.	HOLLOW METAL		

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LEGEND

- PROPERTY LINE
- 1:12 — SLOPING SURFACE
- 2 / A4 — DETAIL NUMBER / SHEET DETAIL APPEARS ON
- 2 / A4 — SECTION NUMBER / SHEET SECTION APPEARS ON
- 2 / A4 — ELEVATION NUMBER / SHEET SECTION APPEARS ON
- CONCRETE
- SOIL
- PLYWOOD
- STEEL
- WOOD BLOCKING
- WOOD CONTINUOUS MEMBER
- WORK POINT, CONNECTION POINT, DATUM POINT OR CONTROL POINT
- 1222A — KEYNOTE
- A3 — DOOR NUMBER REFERENCE, REFER TO DOOR SCHEDULE
- C03A — WINDOW NUMBER REFERENCE, REFER TO WINDOW TYPES
- 1A — WALL TYPE REFERENCE, REFER TO AD101-AD106
- a — SIGN TYPE REFERENCE, REFER TO AD701
- X' - X" — TICK INDICATES DIMENSIONS TO FACE OF STUD, GRIDLINES OR FACE OF STRUCTURE
- X' - X" — DOT INDICATES DIMENSION TO CENTERLINE
- X' - X" — ARROW INDICATES DIMENSION TO F.O. FINISH OR CLEAR DIMENSION
- x.x — SPOT ELEVATION
- ALIGN

ARCHITECT'S STATEMENT OF GENERAL CONFORMANCE

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER SHEET OR INDEX SHEET

☐ THIS DRAWING, PAGE OR SPECIFICATION/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OR 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 THE PROJECT.

I CERTIFY THAT:

☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ THIS DRAWING OR PAGE

☒ IS/ARE IN GENERAL CONFORMANCE AND
☒ HAVE BEEN COORDINATED

SIGNATURE — DATE 9/12/2018

ARCHITECT IN RESPONSIBLE CHARGE: TYSON CLINE
LICENSE NUMBER: C 34436
EXPIRATION DATE: 01/31/2019

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FLOOD HAZARD MAP

FLOOD ZONE DESIGNATION: ZONE X
FIRM PANEL DESIGNATION: 1275
EFFECTIVE DATE: JANUARY 20, 2010
BASE FLOOD ELEVATION: 0.0'
APPLICABLE COMMUNITY ORDINANCE SECTIONS:
- CITY OF OJAI
- VENTURA COUNTY

PROJECT DESCRIPTION

- REMOVE AND REPLACE ROOF OF GYMNASIUM AND LOCKER ROOMS.
- REMODEL (E) LOCKER ROOMS TO PROVIDE ACCESSIBLE OFFICES, RESTROOMS AND SHOWERS.
- ROOFING MATERIALS SHALL BE PURCHASED BY THE SCHOOL DISTRICT AND INSTALLED BY THE CONTRACTOR.

EXISTING BUILDING DATA

	GYM (K)	LOCKER ROOM (E)
OCCUPANCY TYPE	GROUP A2.1	GROUP E1
TYPE OF CONSTRUCTION	TYPE VB	TYPE VB
SPRINKLERS	NO	NO
ALLOWABLE AREA	6,000 SF	9,500 SF
BUILDING AREA	5,000 SF	3,000 SF
ALLOWABLE HEIGHT	40 FT (1 STORY)	
BUILDING HEIGHT	37 FT	12 FT

APPLICABLE CODES

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

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, C.C.R. TITLE 24 PART 1 AND 2

2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2016 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24 PART 3
2016 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24 PART 4
2016 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24 PART 5
2016 CALIFORNIA ENERGY CODE, C.C.R. TITLE 24 PART 6
2016 CALIFORNIA HISTORICAL CODE, C.C.R. TITLE 24 PART 8
2016 CALIFORNIA FIRE CODE, C.C.R. TITLE 24 PART 9
2016 CALIFORNIA EXISTING BUILDING CODE, C.C.R. TITLE 24 PART 10
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, C.C.R. TITLE 24 PART 11
2016 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24 PART 12
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS:
2016 CBC (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIF. AMENDED), 2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIF. AMENDED), 2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CALIF. AMENDED), 2016 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERINGS, 2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIF. AMENDED), 2015 EDITION

PROJECT DIRECTORY

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VICINITY MAP

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
AGENCY FILE
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

TITLE SHEET

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY

Sheet Number

G-000

DEMOLITION NOTES

1. IDENTIFY ALL DAMAGED ELEMENTS DESIGNATED TO REMAIN OR BE RELOCATED. REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH DEMOLITION WORK.

2. GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING DEMOLITION PLANS IN RELATION TO STRUCTURAL AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE THE EXTENT OF DEMOLITION WORK WITH NEW WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL CONFLICTS, DISCREPANCIES OR PROBLEMS.

3. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO DEMOLITION. THE CONTRACTOR SHALL BEWARE OF POTENTIAL HAZARDS FROM DEMOLITION WORK NEAR UTILITIES. PIPES AND CONDUIT ENCOUNTERED IN DEMOLISHED PARTITIONS AND AREAS WHICH ARE TO REMAIN IN USE SHALL BE RE-ROUTED AND CONCEALED. THOSE WHICH ARE TO BE ABANDONED SHALL BE CAPPED AND CONCEALED IN FLOOR, WALL OR CEILING.

4. THE GENERAL CONTRACTOR SHALL ERECT ALL NECESSARY TEMPORARY SOLID AND/OR PLASTIC DROP CLOTH PARTITIONS TO PROTECT AREAS TO REMAIN WHILE DEMOLITION AND CONSTRUCTION ARE IN PROGRESS.

5. BRACE AND SUPPORT EXISTING WORK PRIOR TO AND DURING DEMOLITION AND NEW WORK, AND UNTIL SAFE TO REMOVE SUCH BRACING AND SUPPORTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SHORING DESIGN AND CALCULATIONS.

6. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK REQUIRED INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ALL DEBRIS, BROKEN CONCRETE, ETC., FROM THE SITE. PROPER SHORING SHALL BE EXECUTED FOR THE SAFETY OF THE STRUCTURE AND WORKMEN.

7. THE OWNER SHALL HAVE FIRST RIGHTS OF REFUSAL FOR ALL DEMOLISHED MATERIALS.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM DEMOLITION AT NO ADDITIONAL COST TO THE OWNER. THE GENERAL CONTRACTOR SHALL BE EXTREMELY CAREFUL TO PROTECT AND NOT TO DAMAGE ANY PORTION OF EXISTING INSTALLATION NOT BEING REMOVED. ANY EXISTING FACILITIES INDICATED TO REMAIN WHICH ARE SO DAMAGED SHALL BE REPLACED EQUAL TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER.

9. CUT EXISTING PORTIONS OF WALLS, FLOORS, CEILINGS, ETC., WHERE INDICATED AND AS NECESSARY FOR NEW WORK. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER, THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION.

10. ALL TRADES CONCERNED SHALL COORDINATE EACH OTHER'S WORKS PRIOR TO AND DURING DEMOLITION.

11. ANY PROJECTING OR SURFACE-MOUNTED ITEMS BEING ABANDONED SHALL BE REMOVED, CAPPED AND CONCEALED BEHIND FINISHED SURFACES, UNLESS OTHERWISE NOTED. PATCH AND FINISH TO MATCH EXISTING ADJACENT SURFACE.

12. SURFACES WHERE MATERIAL IS REMOVED TO INSTALL NEW WORK OR TO RECEIVE NEW FINISH SHALL BE REPAIRED AND PATCHED TO MATCH ORIGINAL CONDITIONS. RETEXTURE AND REPAINT WALL OR CEILING WHERE PATCHED TO MATCH EXISTING, WITH NO EVIDENCE THAT PATCH HAS OCCURRED.

13. ALL EXISTING AREAS TO REMAIN OR NEW CONSTRUCTION WORK THAT ARE DAMAGED SHALL BE PATCHED AS REQUIRED TO MATCH EXISTING ADJACENT AREA IN MATERIAL, FINISH AND COLOR, UNLESS OTHERWISE NOTED.

14. ALL EQUIPMENT AND MATERIAL WHICH ARE IN OPERATING CONDITION WHEN REMOVED SHALL BE MAINTAINED AS SUCH AND RETURNED TO THE OWNER OR TO BE REINSTALLED WHERE INDICATED. PROPERLY RECONNECT EQUIPMENT TO RESUME OPERATION.

15. THE PROVISIONS OF CFC & CBC CHAPTER 33 SHALL BE ENFORCED ON THIS PROJECT.

GENERAL NOTES

1. THE PROJECT MANUAL ISSUED AS PART OF THESE CONSTRUCTION DOCUMENTS IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THAT ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE APPLICABLE CODES AND FEDERAL REQUIREMENTS AND REGULATIONS.

3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS PRIOR TO SUBMITTING A BID. THE CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.

4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, GRADES, ELEVATIONS AND DIMENSIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY OR INCONSISTENCY.

5. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL EXISTING UTILITY SERVICES IN THE AREA TO BE EXCAVATED PRIOR TO THE BEGINNING OF EXCAVATION. THE CONTRACTOR SHALL PROTECT ALL UTILITY LINES AND SERVICE LINES TO REMAIN WHICH ARE ENCOUNTERED DURING CONSTRUCTION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF FEDERAL AND STATE OF CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS AND REGULATIONS.

7. DO NOT SCALE ANY DRAWINGS IN THIS SET.

8. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

9. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH ANY WORK SO INVOLVED. NO CHANGES ARE TO BE MADE UNLESS THE ARCHITECT AND THE OWNER ARE NOTIFIED IN WRITING AND APPROVE SUCH A CHANGE ACCORDING TO THE CONTRACT.

10. THE ARCHITECT IS NOT RESPONSIBLE FOR ASBESTOS ABATEMENT.

11. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE OWNER AND THE ARCHITECT ONLY UPON SUBMITTAL, AND FOR A LIMITED PERIOD.

12. ITEMS SHOWN AS N.I.C. ON PLANS MAY REQUIRE SEPARATE SUBMITTALS, APPROVALS AND PERMITS. INSTALLING CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR SUCH ITEMS.

13. CONTRACTOR SHALL ENSURE ALL FINISH MATERIALS WILL BE FLUSH WHERE NEW FINISH SURFACE MATERIALS JOIN EXISTING TO PROVIDE SMOOTH TRANSITION.

14. CONTRACTOR ACKNOWLEDGES THAT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE TO REPRESENT THE INTENT OF THE WORK TO BE ACCOMPLISHED. CONTRACTOR IS TO INSTALL MATERIALS AND SYSTEMS WITH EXPERIENCED SKILLED CRAFTSMEN WHO WILL BE RESPONSIBLE FOR THE INTEGRITY OF THEIR RESPECTIVE WORK. NOT EVERY DETAIL OF EACH CONDITION IS DRAWN. CONTRACTOR AND SUB-CONTRACTOR ARE RESPONSIBLE FOR COMPLETE WORKMANLIKE INSTALLATION OF ALL MATERIALS AND SYSTEMS AND WILL NEED TO PROVIDE ADDITIONAL DETAILS FOR INSTALLATION BASED ON GENERAL INFORMATION SHOWN. FOR INSTANCE, NOT EVERY WATERPROOFING OR FLASHING DETAIL FOR EVERY CONDITION IS SHOWN. CONTRACTOR IS TO PROVIDE DETAILS AND INSTALLATION FOR A COMPLETE WATERTIGHT INSTALLATION.

15. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DIVISION OF THE STATE ARCHITECT (DSA) BEFORE PROCEEDING WITH THE WORK.
{REFERENCE : SECTION 4-317 (c), CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)}

16. DURING CONSTRUCTION PERIOD, CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. THE LOAD SHALL NOT EXCEED THE DESIGN LIVE LOADS FOR EACH PARTICULAR LEVEL.

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703 EL PASEO ROAD,
OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

GENERAL NOTES

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY
Sheet Number	

G-100

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1 SITE / ACCESS PLAN
1" = 40'-0"

GENERAL NOTES

1. ALL GRATINGS IN PATH OF TRAVEL SHALL HAVE GAPS NO GREATER THAN 1/2" IN THE DIRECTION OF TRAVEL.
2. ALL EXISTING BUILDINGS, PARKING LOTS, PATHS OF TRAVEL, SANITARY FACILITIES, DRINKING FOUNTAINS, SIGNAGE & PUBLIC TELEPHONES DSA CERTIFIED UNDER PREVIOUS DSA APPROVED PROJECTS.

LEGEND

- PROPERTY LINE
- EXISTING ACCESSIBLE PATH OF TRAVEL
- PROPOSED ACCESSIBLE PATH OF TRAVEL
- SCOPE OF WORK
- (H) (E) FIRE HYDRANT
- EXISTING 20' WIDE FIRE TRUCK ACCESS ROUTE WITH 28' WIDE MIN. TURN RADIUS
- (a) BUILDING SIGNAGE, REFER TO AD-601

1. (E) ACCESSIBLE PARKING AND SIGNAGE A# 03-107301
2. ACCESSIBLE BOYS & GIRLS TOILET ROOM - PART OF SCOPE OF WORK
3. ACCESSIBLE MEN'S & WOMEN'S TOILET ROOM - PART OF SCOPE OF WORK
4. ACCESSIBLE DRINKING FOUNTAIN - PART OF SCOPE OF WORK
5. (E) 20' X 5' ACCESSIBLE LOADING ZONE AND SIGN STATING "PASSENGER LOADING ZONE - NO PARKING" WITH I.S.A.
6. (E) ACCESSIBLE BOYS & GIRLS TOILET ROOM WITH DUAL HEIGHT DRINKING FOUNTAIN A# 03-107301
7. (E) ACCESSIBLE MEN'S & WOMEN'S TOILET ROOM A# 03-107896
8. (E) ACCESSIBLE PARKING TOW AWAY SIGNAGE PER DETAIL 20/AD703
9. TRUNCATED DOMES, REFER TO DETAIL 15/AD703
10. ATTACH "MINIMUM FINE $250" SIGN TO (E) ACCESSIBLE PARKING SIGN, REFER TO 17/AD-703
11. ADD "NO PARKING" TEXT ON ACCESSIBLE PARKING AISLE, REFER TO 13/AD-703
12. (E) ACCESSIBLE PATH STRIPING. A# 03-107301

DSA 810

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: OJAI UNIFIED SCHOOL DISTRICT

Project Name/School: MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

Project Address: 703 EL PASEO ROAD, OJAI, CA 93023

LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: VENTURA COUNTY FIRE DEPARTMENT

LFA Reviewer Name: RUBEN LUNA — Title: Fire Inspector II

Work Email: Ruben.Luna@ventura.org — Work Telephone Number: 805-914-8801

I have reviewed and responded to the applicable items for this project as listed below.

Note: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA.

LFA Reviewer's Signature: _____ **Date:** 10/24/18

Review Key: "Y" = Complies with LFA requirements; "NA" = Not applicable to the project; "N" = Not approved (complete Section 8); "NR" = LFA elects not to review

	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2	Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.	X			
3	Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X			
4	Fire hydrant location and distribution complies with NFPA 1142. "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.			X	
	Signature of School District Official: _____ **Date:** _____ **Print the School District Official's Name:** _____				
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
7	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) ☐ Yes ☒ No. Check type if "Yes": ☐ Moderate ☐ High ☐ Very High ☐ WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
8	COMMENTS (note deficiencies):				

DSA 810 (rev 01-24-18) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 1 STATE OF CALIFORNIA

ACCESSIBLE P.O.T. NOTES

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:12 OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

ARCHITECTS STATEMENT

REFER TO DSA PR 15_01

THE P.O.T. IDENTIFIED 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 P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC 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 COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PREVIOUS DSA APPLICATIONS

BUILDING	SQ. FT.	A#
BUILDING - A	4,880	9230 / 51555 / 107896
BUILDING - B	2,270	5346 / 51555
BUILDING - C	8,610	1926 / 9338 / 51555 / 107301
BUILDING - D	1,110	9230 / 51555
BUILDING - E	3,790	9231
BUILDING - F	6,230	1926 / 51555 / 104381 / 107301
BUILDING - G	2,602	37821 / 107896
BUILDING - H	5,280	26247
BUILDING - I	5,280	28247
BUILDING - J	4,200	28346
BUILDING - K	7,030	3294 / 5346 / 51555

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LICENSED ARCHITECT — TYSON CLINE — NO. C-34434 — REN. 1-31-19 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
AC FLS SS M.K.
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

SITE / ACCESS PLAN

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY

Sheet Number

G-101

C:\Users\calderon\Documents\Matilija Roofing Project_calderon.rvt

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

SHEET GENERAL NOTES

1. AFTER REMOVAL OF ROOFING, THE ARCHITECT WILL REVIEW THE EXISTING PLYWOOD SUBSTRATE. IF PORTIONS OF PLYWOOD REQUIRE REPLACEMENT, THE ARCHITECT WILL IDENTIFY AND PROVIDE WRITTEN DIRECTION TO THE CONTRACTOR TO AUTHORIZE THE WORK. SUCH COSTS WILL BE APPLIED **AGAINST ALLOWANCE NO. 1**.
2. EXISTING ROOFING MATERIALS SCHEDULED FOR DEMOLITION HAVE BEEN TESTED AND BEEN FOUND NOT TO CONTAIN ASBESTOS. THIS DOES NOT GUARANTEE THAT ALL ROOFING MATERIALS WILL BE FREE OF ASBESTOS. IF ASBESTOS IS FOUND, COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR ASBESTOS ABATEMENT.
3. DO NOT CUT INTO EXISTING PLYWOOD ROOF SHEATHING DURING ROOFING DEMOLITION. ANY PLYWOOD CUT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PER DSA APPROVED DETAILS.
4. DETACH UTILITIES FROM SUPPORTS AND TEMPORARILY SUPPORT AS REQUIRED TO REMOVE AND REPLACE ROOFING.
5. REMOVE ALL EXISTING ROOF JACKS AT PIPE OR CONDUIT PENETRATIONS AND PREP TO RECEIVE NEW SEALED PENETRATION PER DETAIL 7/A-501.
6. FOR DIMENSIONS REFER TO A-103 .

LEGEND

DEMOLISH (E) ASHPALT SHINGLE ROOF TO WOOD SHEATHING

DEMOLISH (E) MEMBRANE ROOF TO WOOD SHEATHING

(E) CONCRETE WALL

KEYNOTES

07712A	(E) DOWNSPOUT TO REMAIN, PROTECT IN PLACE
07712E	REMOVE (E) GUTTER
07720A	PROTECT IN PLACE, (E) EXHAUST FAN TO REMAIN
07720B	(E) ROOF VENT PIPE, PROTECT IN PLACE
07720K	(E) MECHANICAL DUCT, PROTECT IN PLACE
07720M	DEMOLISH (E) FLUE AND PATCH OPENING
07720N	REMOVE (E) FLUE
07720P	REMOVE AND STORE (E) EXHAUST FAN. PATCH OPENING, REFER TO STRUCTURAL
07720T	DEMOLISH (E) EXHAUST FAN AND PATCH OPENING, REFER TO STRUCTURAL
08621A	(E) SKYLIGHT, PROTECT IN PLACE
21000A	PROTECT IN PLACE (E) UTILITY

LOCATION MAP

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OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

ROOF DEMOLITION PLAN

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY
Sheet Number	D-101

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1 DEMOLITION SLAB PLAN
1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. ONLY DEMOLISH NON-STRUCTURAL BUILDING ELEMENTS OF INTERIOR SPACES INDICATED WITHIN THE RENOVATION SCOPE OF WORK.
2. RECORD DRAWINGS FOR EXISTING BUILDING ARE AVAILABLE. NO GUARANTEE IS MADE AS TO ACCURACY OF DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.
3. NO LOAD BEARING WALL, SHEAR WALL, EXTERIOR WALL, WOOD/ STEEL POST SHALL BE REMOVED UNLESS THE LOCATION & DETAILS ARE SHOWN ON STRUCTURAL DRAWINGS.

LEGEND

- (E) CONCRETE WALL
- (E) WALL
- DEMOLISH EXISTING WALL - NON-LOAD BEARING / SHEAR
- DEMOLISH EXISTING WALL - LOAD BEARING
- DEMOLISH ITEM
- (E) SLAB TO BE DEMOLISHED
- (E) CURB, PROTECT IN PLACE
- (E) CONCRETE TO BE DEMOLISHED

KEYNOTES

02000C	(E) CONCRETE WALKWAY, PROTECT IN PLACE
02000D	GRIND EXISTING SLAB, PATCH AND FILL DEPRESSIONS AS REQUIRED
02400E	DEMOLISH (E) CONCRETE LOCKER BASE. REMOVE AND STORE LOCKERS
02400H	DEMOLISH (E) CONCRETE SLAB-ON-GRADE
02400N	(E) CONCRETE LOCKER CURB
02400S	DEMOLISH (E) CONCRETE WALK

LOCATION MAP

NORTH

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OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

LOCKER ROOM DEMOLITION SLAB PLAN

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY

Sheet Number

D-102

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2 DEMO PLAN
1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. ONLY DEMOLISH NON-STRUCTURAL BUILDING ELEMENTS OF INTERIOR SPACES INDICATED WITHIN THE RENOVATION SCOPE OF WORK.
2. RECORD DRAWINGS FOR EXISTING BUILDING ARE AVAILABLE. NO GUARANTEE IS MADE AS TO ACCURACY OF DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS.
3. NO LOAD BEARING WALL, SHEAR WALL, EXTERIOR WALL, WOOD/ STEEL POST SHALL BE REMOVED UNLESS THE LOCATION & DETAILS ARE SHOWN ON STRUCTURAL DRAWINGS.

LEGEND

- (E) CONCRETE WALL
- (E) WALL
- DEMOLISH (E) WINDOW
- DEMOLISH EXISTING WALL – NON-LOAD BEARING/SHEAR
- DEMOLISH EXISTING LOAD BEARING WALL
- DEMOLISH ITEM
- (E) TILE FLOORING TO BE DEMOLISHED
- (E) ELECTRICAL PANEL, PROTECT IN PLACE

KEYNOTES

02000C	(E) CONCRETE WALKWAY, PROTECT IN PLACE
02000E	(E) STEEL COLUMN, PROTECT IN PLACE
02400C	DEMOLISH (E) FLOOR TILES
02400D	DEMOLISH (E) PLUMBING FIXTURE
02400E	DEMOLISH (E) CONCRETE LOCKER BASE. REMOVE AND STORE LOCKERS
02400F	DEMOLISH (E) CONCRETE BOILER SUPPORT WALL
02400G	DEMOLISH (E) PLASTER FINISH AND PLYWOOD SUBSTRATE WHERE WATER DAMAGE OCCURS
02400J	(E) FAN COIL UNIT, PROTECT IN PLACE
02400P	DEMOLISH (E) WINDOW
02400Q	DEMOLISH (E) DOOR
02400S	DEMOLISH (E) CONCRETE WALK
08132A	(E) WINDOW TO BE REMOVED & INFILLED

LOCATION MAP

NORTH

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

LOCKER ROOM DEMOLITION FLOOR PLAN

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY

Sheet Number

D-103

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1 LOCKER ROOM DEMO RCP
1/8" = 1'-0"

NORTH

SHEET GENERAL NOTES

1. DO NOT DEMOLISH STRUCTURAL BUILDING ELEMENTS UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.
2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS
3. REFER TO MECHANICAL, ELECTRICAL, PLUMBING DEMOLITION PLANS
4. HARD CEILING SUPPORTED BY ROOF RAFTERS.

DEMO LEGEND

= = =	DEMOLISH EXISTING PARTITION WALL
– – –	DEMOLISH ITEM
	EXISTING WALL, PROTECT IN PLACE
	EXISTING PLASTER CEILING, PROTECT IN PLACE
	PATCH AND REPAIR PLASTER AS REQUIRED TO MATCH (E) REF. 5 / AD-401
	DEMOLISH (E) WINDOW

KEYNOTES

02400J	(E) FAN COIL UNIT, PROTECT IN PLACE
02400K	DEMOLISH (E) CEILING MOUNTED UNIT
02400M	DEMOLISH (E) LIGHT FIXTURE
02400P	DEMOLISH (E) WINDOW
02400R	(E) SPEAKER, REMOVE AND STORE FOR REINSTALLATION ON CEILING
02400T	PATCH PLASTER WHERE INTERIOR PARTITION WALLS HAVE BEEN DEMOLISHED
02400U	DEMOLISH (E) FIRE ALARM DEVICE AND ASSOCIATED CONDUIT
08132A	(E) WINDOW TO BE REMOVED & INFILLED
26500C	DEMOLISH (E) EXIT SIGN

LOCATION MAP

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

LOCKER ROOM DEMOLITION RCP

	17761.00
Date	5/31/2018
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Checked by	CY

Sheet Number

D-104

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

SHEET GENERAL NOTES

1. ALL ITEMS ARE NEW UNLESS NOTED OTHERWISE.
2. ANY ROOFING MEMBERS OBSERVED TO BE COMPROMISED TO BE REPLACED IN COMPLIANCE WITH DSA-APPROVED EXISTING CONDITION DRAWINGS.
3. REFER TO SHEET A-501 FOR MEMBRANE ROOF DETAILS AT PENETRATIONS AND ROOF EDGE.
4. REPAIR EXISTING FASCIA / TRIM WHERE DAMAGED AND REPAINT ALL TRIM.
5. ROOFING MATERIALS SHALL BE PURCHASED BY THE SCHOOL DISTRICT AND INSTALLED BY THE CONTRACTOR.

LEGEND

- CLASS A METAL PANEL ROOF OVER UNDERLAYMENT. 1/2" PLYWOOD INSTALLED BY CONTRACTOR, REFER TO R-101 METAL ROOFING DRAWINGS FOR ATTACHMENT. 2" BOARD INSULATION
- CLASS A MODIFIED BITUMEN ROOFING OVER (E) DECKING. REFER TO 20/A-510 FOR FASTENING PATTERN. 2" BOARD INSULATION
- CLASS A MODIFIED BITUMEN ROOFING ADHERED TO (E) CONCRETE OVERHANG, NO BOARD INSULATION
- CLASS A MODIFIED BITUMEN ROOFING OVER (E) DECKING. REFER TO 20/A-510 FOR FASTENING PATTERN, NO BOARD INSULATION
- CRICKET
- (E) CONCRETE WALL
- (E) WALL BELOW

KEYNOTES

07712F	GUTTER
07712G	(E) DOWNSPOUT TO REMAIN, CONNECT TO GUTTER
07720A	PROTECT IN PLACE, (E) EXHAUST FAN TO REMAIN
07720C	REINSTALL EXHAUST FAN, REFER TO 14/AD-501
07720D	INSTALL ROOF JACK AT (E) PIPE VENT, REFER TO 7/AD-501. ASSUME 6 PIPE PENETRATIONS OCCUR AT ROOF
07720I	(E) ROOF DRAIN TO REMAIN, REFER TO 19/AD-501 FOR DETAIL
07720L	METAL ROOF CURB. REFER TO F/R-105 AND G/R-105
07720R	EXHAUST DUCT WITH T-TOP TERMINATION, REFER TO MECHANICAL DRAWINGS
07720S	4" CAT III FLUE, REFER TO MECHANICAL DRAWINGS
08621A	(E) SKYLIGHT, PROTECT IN PLACE
21000A	PROTECT IN PLACE (E) UTILITY
23000B	PROTECT IN PLACE (E) MECHANICAL EQUIPMENT
23000E	(E) SPLIT OUTDOOR UNIT, REFER TO MECHANICAL DRAWINGS

LOCATION MAP

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

ROOF PLAN

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY

Sheet Number

A-101

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

NORTH

SHEET GENERAL NOTES

1. SEE SHEET G-100 FOR GENERAL NOTES AND STANDARDS.
2. SEE SHEET G-000 FOR ARCHITECTURAL SYMBOLS AND ABBREVIATIONS AND DIMENSIONING STANDARDS.
3. ALL DIMENSIONS TO FORMED CONCRETE EDGES ARE TO FACE OF CONCRETE OR FACE OF CURB.
4. COORDINATE ALL PENETRATIONS / SLEEVES / EMBEDS / CONDUITS AND BLOCKOUTS WITH OTHER TRADES INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, MECHANICAL AND FIRE.
5. COORDINATE CURB WIDTHS WITH WALL TYPE DETAILS.

LEGEND

NEW CONCRETE

CERAMIC TILE O/ DEPRESSED CONCRETE SLAB, REFER TO 9/AD-111

PER WALL TYPE, U.O.N.
HEIGHT OF CURB
INDICATES DEPRESSION OR STEP IN SLAB

CONCRETE CURB, REFER TO 9/AD-111 U.O.N.

KEYNOTES

02400N	(E) CONCRETE LOCKER CURB
03300A	CONCRETE LOCKER CURB, REFER TO 10/AD-901 AND STRUCTURAL FOR REINFORCING.
03300B	CONCRETE PAVING
22400F	FLOOR DRAIN, REFER TO PLUMBING DRAWINGS, 1:48 MAXIMUM SLOPE, TYPICAL AND 1/2" MAXIMUM GRATE OPENING, TYPICAL

LOCATION MAP

NORTH

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

SLAB PLAN

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY

Sheet Number

A-102

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

INTERIOR FINISH SCHEDULE

ROOM#	ROOM NAME	FLOOR MAT.	FLOOR FINISH	BASE BASE MATERIAL	BASE BASE FINISH	NORTH WALL MAT.	NORTH WALL FINISH	EAST WALL MAT.	EAST WALL FINISH	SOUTH WALL MAT.	SOUTH WALL FINISH	WEST WALL MAT.	WEST WALL FINISH	CEILING MAT.	CEILING CEILING FINISH	REMARKS
	GYM															
100	OFFICE	EX CN	EX PT	EX PL / CN	EX PT / PT	EX PL	EX PT	EX PL / EX CN	EX PT	EX PL / PL	EX PT / PT	EX PL	EX PT	EX PL	PT	
101	ACCESSIBLE TOILET	CT	FF	CT	FF	EX PL / PL / GB / CT	EX PT / PT / FF	EX PL / CT	EX PT / FF	EX PL / GB / CT	EX PT / PT / FF	EX PL / CT	EX PT / FF	EX PL	PT	
102	GIRLS LOCKER ROOM	EX CN	PT	EX PL / CN	EX PT / PT	EX PL / PL	EX PT / PT	EX PL / EX CN / PL	EX PT / PT	EX PL / CN / GB	EX PT / PT	GB	PT	EX PL	PT	
107	MECHANICAL ROOM	CN	PT	-	-	GB	PT	EX PL	EX PT	GB	PT	GB	PT	EX PL	PT	
111	BOYS LOCKER ROOM	EX CN	EX PT	EX PL / CN	EX PT / PT	EX PL / PL	EX PT / PT	GB	PT	EX PL / EX CN / GB	EX PT / PT	EX PL / EX CN / PL	EX PT / PT	EX PL	PT	
112	OFFICE	EX CN	EX PT	EX PL / CN	EX PT / PT	EX PL	EX PT	EX PL	EX PT	EX PL / PL	EX PT / PT	EX PL / EX CN	EX PT	EX PL	PT	
113	ACCESSIBLE TOILET	CT	FF	CT	FF	EX PL / PL / GB / CT	EX PT / PT / FF	EX PL / PL / CT	EX PT / PT / FF	EX PL / GB / CT	EX PT / PT / FF	EX PL / CT	EX PT / FF	EX PL	PT	
114	CUSTODIAN	CN	PT	-	-	GB	PT	GB	PT	EX PL / EX CN	EX PT	GB	PT	EX PL	PT	
115	STORAGE	CN	PT	-	-	GB	PT	GB	PT	EX PL / EX CN	EX PT	EX PL	EX PT	EX PL	PT	
116	STORAGE	CN	PT	-	-	GB	PT	EX PL / GB	EX PT / PT	EX PL / EX CN	EX PT	GB	PT	EX PL	PT	
117	GIRLS RESTROOM	CT	FF	CT	FF	EX PL / CT	EX PT / FF	-	-	GB / CT	PT / FF	GB / CT	PT / FF	EX PL	PT	
118	BOYS RESTROOM	CT	FF	CT	FF	EX PL / CT	EX PT / FF	GB / CT	PT / FF	GB / CT	PT / FF	-	-	EX PL	PT	
120	STORAGE	CT	FF	CT	FF	GB	PT	GB	PT	EX PL	PT	EX PL	PT	EX PL	PT	
121	STORAGE	CT	FF	CT	FF	GB	PT	GB	PT	EX PL	PT	EX PL	PT	EX PL	PT	

SHEET GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE PERFORMING THE WORK.
2. REFER TO INTERIOR ELEVATIONS ON A-210 FOR MORE INFORMATION.
3. ALL FINISHES ARE NEW UNLESS NOTED OTHERWISE.
4. ALL EXISTING FACTORY FINISHES SHALL NOT BE PAINTED. PROTECT FINISH WHEN PAINTING ADJACENT SURFACES.
5. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.

LEGEND

- (E) CONCRETE WALL, PROTECT IN PLACE
- (E) WALL, PROTECT IN PLACE
- 6" WOOD FRAME WALL, FULL HEIGHT
- DOOR PER DOOR SCHEDULE
- WINDOW PER WINDOW SCHEDULE
- 5' CLEAR FLOOR SPACE
- TILE FLOORING PER FINISH SCHEDULE
- (E) CONCRETE, PROTECT IN PLACE

CLASSROOM — ROOM NAME
E-1 — ROOM NUMBER
907 SF — ROOM SIZE (SF)
E — OCCUPANCY TYPE
20 — OCCUPANCY FACTOR
46 — TOTAL OCCUPANTS

DOOR — TYPE OF EXIT
13 — OCCUPANT LOAD @ EXIT
32.0" — REQUIRED WIDTH IN INCHES
32.0" — PROVIDED WIDTH IN INCHES

MATERIALS LEGEND

EX CN	EXISTING CONCRETE
CN	CONCRETE
EX PL	EXISTING PLASTER
CT	CERAMIC TILE
GB	GYPSUM WALL BOARD
PL	PLASTER

FINISHES LEGEND

EX PT	EXISTING PAINT
FF	FACTORY FINISH
PT	PAINT

LOCKERS

RM. 111, BOYS LOCKER ROOM
REINSTALL: 0 2TIER, 54 3TIER
NEW: 110 2TIER, 0 3TTIER

ACCESSIBLE 5% PER 11B-225.2.1
6 2TIER, 3 3TIER

RM. 102, GIRLS LOCKER ROOM
REINSTALL: 0 2TIER, 60 3TIER
NEW: 18 2TIER, 0 3TIER

ACCESSIBLE 5% PER 11B-225.2.1
1 2TIER, 3 3TIER

STORAGE AREA

(E) STORAGE:
P.E. - 108 SF
GYM - 52 SF
(E) CUSTODIAL: 34 SF

(N) STORAGE:
P.E - 116 SF
GYM - 104 SF
(N) CUSTODIAL: 30 SF

LOCATION MAP

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
APPL. FLS. DS. M.K.
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

LOCKER RM. FLOOR PLAN & INT. FINISH SCHEDULE

17761.00
Date 5/31/2018
Drawn by BI
Checked by CY
Sheet Number
A-103

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1 LOCKER ROOM RCP
1/8" = 1'-0"

NORTH

GENERAL NOTES

1. INSTALL REQUIRED BACKING FOR LIGHT FIXTURE SUPPORTS.
2. PAINT ALL EXPOSED STEEL, PIPE, CONDUIT, AND DUCTWORK.
3. REFER TO ELECTRICAL DRAWINGS FOR FIRE ALARM DEVICE LOCATIONS.

LEGEND

- (E) PLASTER CEILING, PROTECT IN PLACE
- LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- HVAC DIFFUSER, REFER TO MECHANICAL DRAWINGS
- EXIT SIGN, REFER TO ELECTRICAL DRAWINGS
- FIRE ALARM DEVICE, REFER TO ELECTRICAL DRAWINGS
- FRAMED GYPSUM CEILING, PAINTED.

KEYNOTES

02000B	(E) ROOF STRUCTURE, PROTECT IN PLACE
02000E	(E) STEEL COLUMN, PROTECT IN PLACE
08621A	(E) SKYLIGHT, PROTECT IN PLACE
09230C	ALIGN WALL FINISH WITH FINISH AT SKYLIGHT
10200A	PRIVACY CURTAIN AND TRACK, REFER TO 15/AD-901
10200E	PRIVACY CURTAIN AT SHOWER COMPARTMENT, REFER TO 15/AD-901 FOR MOUNTING DETAIL, SIM.& TO 17/AD-701
21000A	PROTECT IN PLACE (E) UTILITY
23000C	COMBO EXHAUST REGISTER, REFER TO MECHANICAL DRAWINGS
23000D	UNIT HEATER, REFER TO MECHANICAL DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS
23000F	RE-INSTALL (E) EXHAUST FAN, REFER TO 3/M-301 ON MECHANICAL DRAWINGS
26000A	REINSTALL (E) SPEAKER, REFER TO DETAIL 12/AD-901
26050A	(E) CONDUIT, PROTECT IN PLACE
26500B	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
26500D	EXIT SIGN, REFER TO ELECTRICAL DRAWINGS

LOCATION MAP

NORTH

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AC FFLS SS M.V.
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

LOCKER ROOM REFLECTED CEILING PLAN

	17761.00
Date	5/31/2018
Drawn by	BI
Checked by	CY

Sheet Number

A-104

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2 GIRLS LOCKER ROOM - NORTH
1/4" = 1'-0"

1 GIRLS LOCKER ROOM - EAST
1/4" = 1'-0"

3 GIRLS LOCKER ROOM - SOUTH
1/4" = 1'-0"

4 GIRLS LOCKER ROOM - WEST
1/4" = 1'-0"

5 BOYS LOCKER ROOM - NORTH
1/4" = 1'-0"

6 BOYS LOCKER ROOM - EAST
1/4" = 1'-0"

7 BOYS LOCKER ROOM - SOUTH
1/4" = 1'-0"

8 BOYS LOCKER ROOM - WEST
1/4" = 1'-0"

KEYNOTES

05521A	DRINKING FOUNTAIN GUARDRAIL AND GRAB BAR
08131A	DOOR, REFER TO DOOR SCHEDULE
08131B	(E) DOOR, PROTECT IN PLACE W/WALL OPENING
08500B	WINDOW, REFER TO WINDOW SCHEDULE, WINDOWS 100A & 112A PER 4/15.600A
09230A	INSTALL PLYWOOD SUBSTRATE AND PLASTER FINISH, PAINT TO MATCH (E) WALL FINISH
09230B	PATCH PLASTER AS NEEDED, PAINT TO MATCH DISTRICT STANDARDS
09310B	CERAMIC WALL TILE
10200B	TOILET PARTITION, REFER TO 5/AD-702 FOR BACKING DETAILS
10200F	SOAP DISPENSER
10440A	RELOCATE (E) PORTABLE FIRE EXTINGUISHER
10510B	2-TIER LOCKER, REFER TO 10/AD-901
22400A	ADA TOILET
22400B	ADA LAVATORY
22400D	HIGH / LOW ADA DRINKING FOUNTAIN, REFER TO 15/AD-702
23000G	MECHANICA EQUIPMENT, REFER TO MECHANICAL DRAWINGS
26240A	(E) ELECTRICAL PANEL, PROTECT IN PLACE
26500B	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS

LOCATION MAP

NORTH

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OJAI UNIFIED SCHOOL DISTRICT

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703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

LOCKER ROOM INTERIOR ELEVATIONS

	17761.00
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Drawn by	BI
Checked by	CY

Sheet Number

A-210

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1 SECTION A
1/8" = 1'-0"

2 SECTION B
1/8" = 1'-0"

KEYNOTES

02000A	(E) WALL, PROTECT IN PLACE
02000B	(E) ROOF STRUCTURE, PROTECT IN PLACE
07210A	(E) INSULATION, REFER TO ALLOWANCE 1 FOR REPLACEMENT OF DAMAGED INSULATION
07520A	MEMBRANE ROOFING, REFER TO A-103 LEGEND
07520C	METAL PANEL ROOF, REFER TO A-103 LEGEND
07720A	PROTECT IN PLACE, (E) EXHAUST FAN TO REMAIN
07720L	METAL ROOF CURB. REFER TO F/R-105 AND G/R-105

LOCATION MAP

NORTH

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703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

BUILDING SECTIONS

	17761.00
Date	5/31/2018
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Sheet Number	A-301

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1 BOYS LOCKER ROOM ENLARGED PLAN
1/4" = 1'-0"

SHEET GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE PERFORMING THE WORK.

LEGEND

- (E) CONCRETE WALL, PROTECT IN PLACE
- (E) WALL, PROTECT IN PLACE
- 6" WOOD FRAME WALL, FULL HEIGHT
- 0000A — DOOR PER DOOR SCHEDULE
- 0000A — WINDOW PER WINDOW SCHEDULE
- 5' CLEAR FLOOR SPACE
- 30" X 48" CLEAR FLOOR SPACE
- ACCESSIBLE LOCKER, REFER TO LOCKER NOTES ON A-103 & ACCESSIBLE DETAILS ON 11/AD-701
- THIN-SET TILE FLOORING PER FINISH SCHEDULE
- NEW CONCRETE
- 0A — WALL TYPE, REFER TO AD-101
- a — INDICATES BUILDING SIGNAGE, REFER TO AD-601

KEYNOTES

05100A	STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS
06100A	6X6 POST, REFER TO STRUCTURAL DRAWINGS
09230B	PATCH PLASTER AS NEEDED, PAINT TO MATCH DISTRICT STANDARDS
10200A	PRIVACY CURTAIN AND TRACK, REFER TO 15/AD-901
10200C	ADA SHOWER BENCH, REFER TO 8/AD-702 FOR ANCHORAGE DETAILS & TO 17/AD-701
10200D	ADA GRAB BAR, REFER TO 20/AD-702 FOR BACKING DETAILS
10200G	PAPER TOWEL DISPENSER
10440A	RELOCATE (E) PORTABLE FIRE EXTINGUISHER
10510A	INSTALL CURB AT LOCKERS. REINSTALL 3-TIER LOCKERS
10510B	2-TIER LOCKER, REFER TO 10/AD-901
10600A	SIGNAGE, REFER TO AD-601
12672A	ADA LOCKER ROOM BENCH, REFER TO 17/AD-702
12672B	LOCKER ROOM BENCH, MATCH (E) BENCH CONSTRUCTION. REFER TO 18/AD-901
22400A	ADA TOILET
22400B	ADA LAVATORY
22400E	ADA SHOWER, REFER TO 7/AD-702
220002	REINSTALL (E) WATER HEATER

LOCATION MAP

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OJAI UNIFIED SCHOOL DISTRICT

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

BOYS LOCKER RM ENLARGED FLOOR PLAN

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Checked by	CY
Sheet Number	A-501

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1 GIRLS LOCKER ROOM ENLARGED PLAN
1/4" = 1'-0"

SHEET GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT BEFORE PERFORMING THE WORK.

LEGEND

- (E) CONCRETE WALL, PROTECT IN PLACE
- (E) WALL, PROTECT IN PLACE
- 6" WOOD FRAME WALL, FULL HEIGHT
- 0000A — DOOR PER DOOR SCHEDULE
- 0000A — WINDOW PER WINDOW SCHEDULE
- 5' CLEAR FLOOR SPACE
- 30" X 48" CLEAR FLOOR SPACE
- ACCESSIBLE LOCKER, REFER TO LOCKER NOTES ON A-103 & ACCESSIBLE DETAILS ON 11/AD-701
- THIN-SET TILE FLOORING PER FINISH SCHEDULE
- NEW CONCRETE
- 0A — WALL TYPE, REFER TO AD-101
- a — INDICATES BUILDING SIGNAGE, REFER TO AD-601

KEYNOTES

05100A	STEEL COLUMN, REFER TO STRUCTURAL DRAWINGS
06100A	6X6 POST, REFER TO STRUCTURAL DRAWINGS
09230B	PATCH PLASTER AS NEEDED, PAINT TO MATCH DISTRICT STANDARDS
10200A	PRIVACY CURTAIN AND TRACK, REFER TO 15/AD-901
10200C	ADA SHOWER BENCH, REFER TO 8/AD-702 FOR ANCHORAGE DETAILS & TO 17/AD-701
10200D	ADA GRAB BAR, REFER TO 20/AD-702 FOR BACKING DETAILS
10200G	PAPER TOWEL DISPENSER
10440A	RELOCATE (E) PORTABLE FIRE EXTINGUISHER
10510A	INSTALL CURB AT LOCKERS. REINSTALL 3-TIER LOCKERS
10510B	2-TIER LOCKER, REFER TO 10/AD-901
10600A	SIGNAGE, REFER TO AD-601
12672A	ADA LOCKER ROOM BENCH, REFER TO 17/AD-702
12672B	LOCKER ROOM BENCH, MATCH (E) BENCH CONSTRUCTION. REFER TO 18/AD-901
22400A	ADA TOILET
22400B	ADA LAVATORY
22400D	HIGH / LOW ADA DRINKING FOUNTAIN, REFER TO 15/AD-702
22400E	ADA SHOWER, REFER TO 7/AD-702
22400G	MOP SINK, REFER TO PLUMBING DRAWINGS
26240A	(E) ELECTRICAL PANEL, PROTECT IN PLACE

LOCATION MAP

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OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

GIRLS LOCKER RM ENLARGED FLOOR PLAN

	17761.00
Date	5/31/2018
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Sheet Number

A-502

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DOOR SCHEDULE

MARK	LOCATION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	HDW SET	TYPE	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FRAME FRAME TYPE	FRAME FRAME MATERIAL	FRAME FRAME FINISH	REMARKS
101A	ACCESSIBLE TOILET	3' - 0"	7' - 0"	1 3/4"	WD	PT	2.0	F	3/AD-201	8/AD-201	13/AD-201	1	HM	PT	
101B	STORAGE	2' - 0"	7' - 0"	1 3/4"	WD	PT	4.0	F	3/AD-201	8/AD-201	13/AD-201	1	HM	PT	
102A	GIRLS LOCKER ROOM	4' - 6"	7' - 0"	1 3/4"	HM	PT	1.0	FF	4/AD-201	9/AD-201	15/AD-201	1	HM	PT	PH
107	MECHANICAL ROOM	6' - 0"	7' - 0"	1 3/4"	WD	PT	3.0	L	3/AD-201	8/AD-201	13/AD-201	1	HM	PT	UNDERCUT 1"
111A	BOYS LOCKER ROOM	4' - 6"	7' - 0"	1 3/4"	HM	PT	1.0	FF	4/AD-201	9/AD-201	15/AD-201	1	HM	PT	PH
111B	STORAGE	2' - 0"	7' - 0"	1 3/4"	WD	PT	4.0	F	3/AD-201	8/AD-201	13/AD-201	1	HM	PT	
113	ACCESSIBLE TOILET	3' - 0"	7' - 0"	1 3/4"	WD	PT	2.0	F	3/AD-201	8/AD-201	13/AD-201	1	HM	PT	
114	CUSTODIAN	3' - 0"	7' - 0"	1 3/4"	HM	PT	4.0	F	4/AD-201	9/AD-201	15/AD-201	1	HM	PT	
115	STORAGE	3' - 0"	7' - 0"	1 3/4"	HM	PT	4.0	F	4/AD-201	9/AD-201	15/AD-201	1	HM	PT	
119	GYM	5' - 0"	7' - 0"	1 3/4"	HM	PT	1.0	FG	5/AD-201	10/AD-201	15/AD-201	1	HM	PT	PH
121	GYM	5' - 0"	7' - 0"	1 3/4"	HM	PT	1.0	FG	5/AD-201	10/AD-201	15/AD-201	1	HM	PT	PH

DOOR TYPE

DOOR FRAME TYPE

WINDOW TYPE.

DOOR GENERAL NOTES

1. VERIFY ALL ROUGH OPENING DIMENSIONS PRIOR TO FABRICATION.

2. ALL DOORS SHALL HAVE LEVER HARDWARE U.O.N. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES SHALL BE INSTALLED MINIMUM 34" AND MAXIMUM 48" ABOVE FINISH FLOOR. (CBC 1010.1.9.2)

3. EXCEPT AS SPECIFICALLY PERMITED BY THIS SECTION EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT (CBC 1010.1.9) AND THE FORCE REQUIRED TO PUSH OR PULL AN EGRESS DOOR TO THE OPEN POSITION SHALL NOT EXCEED 5 POUND (CBC 1010.1.3)

4. CONTRACTOR SHALL PROVIDE POWER AS NECESSARY FOR FULL OPERATION OF KEYPAD ACCESS.

5 SWINGING DOORS:

- DOORS SHALL BE A MINIMUM OF 16 GA AND HAVE SUFFICIENT REINFORCEMENT TO MAINTAIN THE DESIGNED THICKNESS OF THE DOOR WHEN ANY LOCKING DEVICE IS INSTALLED; SUCH REINFORCEMENT BEING ABLE TO RESIST COLLAPSING OF THE DOOR AROUND ANY LOCKING DEVICE.
- GLAZING IN DOORS OR WITHIN 40" OF ANY DOOR LOCKING MECHANISM SHALL BE FULLY TEMPERED SAFETY GLASS.
- SINGLE DOORS SHALL BE EQUIPPED WITH A DEADBOLT. DEADBOLT SHALL HAVE MIN. PROJECTION OF 1" AND BE CONSTRUCTED SO AS TO REPEL CUTTING TOOL ATTACKS. THE DEADBOLT SHALL HAVE AN EMBEDMENT OF AT LEAST 3/4" INTO THE STRIKE RECEIVING THE DEADBOLT. THE CYLINDER SHALL HAVE A CYLINDER GUARD, A MIN. OF (5) PIN TUMBLERS AND SHALL BE CONNECTED TO THE INNER PORTION OF THE LOCK BY CONNECTING SCREWS OF AT LEAST 1/4" IN DIA. THESE PROVISIONS NOT REQUIRED WHERE PANIC HARDWARE IS REQUIRED.
- DOUBLE DOOR INACTIVE LEAF SHALL BE EQUIPPED WITH METAL FLUSH BOLTS HAVING A MINIMUM EMBEDMENT OF 5/8" INTO THE HEAD AND THRESHOLD OF THE DOOR FRAME. SHALL HAVE AN ASTRAGAL CONSTRUCTED OF STEEL 1/8" MIN. THICK WHICH COVERS OPENING BETWEEN DOORS. ASTRAGAL SHALL BE MIN. 2" WIDE AND EXTEND MIN. 1" BEYOND THE EDGE OF THE DOOR TO WHICH IT IS ATTACHED. ASTRAGAL SHALL BE EITHER WELDED TO THE OUTSIDE OF THE ACTIVE DOOR OR ATTACHED WITH NON-REMOVABLE BOLTS AT 10" O.C. MAX.
- PANIC HARDWARE SHALL CONTAIN A MINIMUM OF TWO LOCKING POINTS ON EACH DOOR.

6. PROVIDE LABEL OR ETCHING ON TEMPERED GLASS WITHIN 18" OF DOOR AND AT OTHER REQUIRED LOCATIONS.

7. ALL NEW DOORS TO BE INSTALLED IN (E) OPENINGS SHALL BE FITTED ON (E) OPENINGS WITHOUT ENLARGEMENT.

DOOR FINISH LEGEND

PT PAINT

DOOR MATERIALS LEGEND

HM HOLLOW METAL

(T) TG TEMPERED GLASS

WINDOW GENERAL NOTES

1. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION, INCLUDING DOOR DETAIL REFERENCES. FIELD VERIFY ALL DOOR, WINDOW, OPENING DIMENSIONS

2. PROVIDE LABEL OR ETCHING ON TEMPERED GLASS WITHIN 18" OF DOOR AND AT OTHER REQUIRED LOCATIONS.

3. REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.

4. REPAIR OR REPLACE WOOD TRIM & PAINT TO MATCH (E).

WINDOW SCHEDULE LEGEND

000A WINDOW TAG, REFER TO FLOOR PLAN FOR LOCATION

(T) TEMPERED GLASS

(O) OBSCURING GLASS

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DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

LOCKER ROOM DOOR & WINDOW SCHEDULES

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3A DOUBLE INTERIOR PARTITION WALL W/ 4" WOOD STUDS W/ 3/16" PORCELAIN TILE O/ CEMENTITIOUS BOND COAT O/ 5/8" FIBER GLASS FACED GYPSUM BOARD ON BOTH SIDES.

SECTION 3A

PLAN 3A

DOUBLE INT. PARTITION WALL 1 1/2" = 1'-0" 6

SECTION 4A

PLAN 4A

SHEAR WALL 1 1/2" = 1'-0" 7

SECTION 1A

SECTION 1B

SECTION 1C

1A EXTERIOR WALL W/ 4" WOOD STUDS W/ INTERIOR PLASTER O/ WOOD PATH ON ONE SIDE AND EXTERIOR PLASTER O/ WOOD LATH. INSULATION BETWEEN STUDS.

1B EXTERIOR WALL W/ 4" WOOD STUDS W/ EXTERIOR PLASTER O/ WOOD LATH AND 3/16" PORCELAIN TILE O/ CEMENTITIOUS BOND COAT O/ 5/8" FIBER GLASS FACED GYPSUM BOARD. INSULATION BETWEEN STUDS.

1C EXTERIOR WALL W/ 4" WOOD STUDS W/ EXTERIOR PLASTER O/ WOOD LATH AND 3/16" PORCELAIN TILE O/ 1/4" FIBER GLASS FACED GYPSUM BOARD O/ CEMENTITIOUS BOND COAT O/ 5/8" DIAGONAL SHEATING. INSULATION BETWEEN STUDS.

PLAN 1A

PLAN 1B

PLAN 1C

EXTERIOR WOOD STUD WALL 1 1/2" = 1'-0" 10

SECTION 2A

SECTION 2B

SECTION 2C

SECTION 2D

SECTION 2E

SECTION 2F

2A INTERIOR WALL W/ 4" WOOD STUDS W/ 5/8" GYPSUM BOARD BOTH SIDES.

2B INTERIOR WALL W/ 4" WOOD STUDS W/ 5/8" GYPSUM BOARD BOTH SIDES. INSULATION BETWEEN STUDS.

2C INTERIOR WALL W/ 4" WOOD STUDS W/ INTERIOR PLASTER O/ WOOD LATH ONE SIDE AND 5/8" GYPSUM BOARD.

2D INTERIOR WALL W/ 4" WOOD STUDS W/ INTERIOR PLASTER O/ WOOD LATH ONE SIDE AND 3/16" PORCELAIN TILE O/ CEMENTITIOUS BOND COAT O/ 5/8" FIBER GLASS FACED GYPSUM BOARD.

2E INTERIOR WALL W/ 4" WOOD STUDS W/ 3/16" PORCELAIN TILE O/ CEMENTITIOUS BOND COAT O/ 5/8" FIBER GLASS FACED GYPSUM BOARD BOTH SIDES.

2F INTERIOR WALL W/ 4" WOOD STUDS W/ 5/8" GYPSUM BOARD ONE SIDE AND 3/16" PORCELAIN TILE O/ CEMENTITIOUS BOND COAT O/ 5/8" FIBER GLASS FACED GYPSUM BOARD.

PLAN 2A

PLAN 2B

PLAN 2C

PLAN 2D

PLAN 2E

PLAN 2F

INTERIOR WOOD STUD WALL 1 1/2" = 1'-0" 20

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OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

WALL TYPE DETAILS

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AD-101

TYPICAL BACKING 3" = 1'-0" (3)

TOP OF INT. PARTITION WALL 3" = 1'-0" (4)

EXTERIOR WALL @ (E) HEADER 3" = 1'-0" (5)

BASE OF INT. PARTITION WALL 3" = 1'-0" (8)

CURB @ INT. PARTITION WALL 3" = 1'-0" (14)

BASE OF EXTERIOR WALL 3" = 1'-0" (15)

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TYPICAL WALL DETAILS

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CURB & SLAB DETAIL AA 1/2" = 1'-0" (2)

CURB & SLAB DETAIL BB 1/2" = 1'-0" (4)

TRANSITION @ TILE FLOOR AND (E) CONCRETE FLOOR 3" = 1'-0" (5)

TILE O/ SLAB ON GRADE 3" = 1'-0" (6)

NOTES:
1. REFER TO DET. 9 / AD-121 FOR EXPANSION JOINT AT EXISTING CONCRETE.

TYPICAL CONCRETE PAVEMENT 1" = 1'-0" (7)

NOTES:
1. PROVIDE EXPANSION JOINTS WHERE INDICATED ON THE DRAWINGS, AND AT (E) TO (N) PAVING TRANSITIONS
2. ALL TOOLED EDGES OF JOINTS SHALL BE 1/4" RAD. MAX.

EXPANSION JOINT @ EXISTING CONCRETE 3" = 1'-0" (9)

CONTROL JOINT (CJ)

EXPANSION JOINT (EJ)

CONCRETE JOINTS

CJ CONTROL / CONTRACTION JOINTS TROWEL 3/16" TO 1/4" WIDE BY AT LEAST 1/3 DEPTH OF SLAB OR 1-1/2" JOINT SHALL EXTEND THROUGH THE FULL SECTION OF THE CONCRETE AT EDGES & AGAINST EDGED CONSTRAINTS. 1/4" TOOLED RADIUS.

EJ EXPANSION / ISOLATION JOINTS FORMED WITH PREFORMED EXPANSION JOINT MATERIAL WITH REMOVABLE TOP STRIP FOR PLACEMENT OF SEALANT

NOTES:

1. ALL JOINTS OTHER THAN EXPANSION JOINTS SHALL BE TOOLED CONTROL JOINTS U.N.O.
2. INSTALL EXPANSION JOINTS AT ALL LOCATIONS WHERE PAVEMENT MEETS BUILDINGS, WALLS, CURBS AND OTHER PERMANENT STRUCTURES OR AT 100' MAX O.C.

JOINTS @ CONC. PAVEMENT 3/4" = 1'-0" (15)

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TYPICAL FLOOR DETAILS

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AD-121

INT. HEAD,JAMB,SILL @ STUD WALL 3" = 1'-0" (1)

EXT. HEAD @ STUD WALL 3" = 1'-0" (2)

HEAD @ INTERIOR WOOD STUD WALL 3" = 1'-0" (3)

HEAD @ EXTERIOR WALL 3" = 1'-0" (4)

HEAD @ (E) CONCRETE WALL 3" = 1'-0" (5)

EXT. JAMB @ STUD WALL 3" = 1'-0" (7)

JAMB @ INTERIOR WOOD STUD WALL 3" = 1'-0" (8)

JAMB @ EXTERIOR WALL 3" = 1'-0" (9)

JAMB @ (E) CONCRETE WALL 3" = 1'-0" (10)

EXT. SILL @ STUD WALL 3" = 1'-0" (12)

THRESHOLD @ INT. DOOR 3" = 1'-0" (13)

THRESHOLD @ EXT. DOOR 3" = 1'-0" (15)

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TYPICAL DOOR & WINDOW DETAILS

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AD-201

FRAMED CEILING @ SHOWERS 3" = 1'-0" (5)

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CLERESTORY ROOF EAVE 3" = 1'-0" (6)

MEMBRANE ROOFING @ SKYLIGHT 3" = 1'-0" (2)

MEMBRANE ROOF PENETRATION 3" = 1'-0" (7)

MEMBRANE ROOFING @ (E) WALL 1 1/2" = 1'-0" (8)

NOTE:
1. REFER TO 20/-- FOR ZONE IDENTIFICATION
2. ROOF A USE 1/4" #14 SCREW FASTENER #3 PHILLIPS TRUSS HEAD AND PLATE.
3. TYPICAL ROOF USE 3" #14 SCREW FASTENER #3 PHILLIPS TRUSS HEAD AND PLATE.

BASE PLY FASTENER PATTERN @ ZONES A, B, C1, C2 PER 20/AD-501 1/2" = 1'-0" (10)

GUTTER @ MEMBANE ROOF 3" = 1'-0" (12)

MECHANICAL EQUIPMENT CURB 3" = 1'-0" (14)

NOTE:
REFER TO 10/-- FOR BASE PLY FASTENER PATTERN.

ROOF ZONES 1" = 20'-0" (20)

MEMBRANE ROOF @ CLERESTORY ROOF 3" = 1'-0" (17)

MEMBRANE ROOFING @ (E) DRAIN 3" = 1'-0" (19)

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ROOF DETAILS

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AD-501

GENERAL NOTES

1. FOR SIGNAGE APPLICATION TO GLASS, PROVIDE A MATCHING BACK-UP PLATE & MOUNT TO INTERIOR SURFACE OF GLASS WITH ADHESIVE.

2. VERIFY ALL SIGN TEXT WITH ***DISTRICT*** PRIOR TO ORDERING SIGNAGE.

3. PROVIDE AN ADDITIONAL 10 BUILDING SIGNS WITH 40 CHARACTERS PER SIGN TO BE DETERMINED DURING CONSTRUCTION PER THE ***DISTRICT***'S DIRECTION.

ACCESSIBLE SIGNAGE

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO INDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH AND AS SPECIFICALLY REQUIRED IN THESE NOTES. THE FOLLOWING ELEMENTS AND SPACES OF ACCESSIBLE FACILITIES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY:
   - A. ACCESSIBLE PARKING SPACES.
   - B. ACCESSIBLE AREA OF REFUGE.
   - C. ACCESSIBLE PASSENGER LOADING ZONES.
   - D. ACCESSIBLE TOILET AND BATHING FACILITIES.
   - E. ALL MAIN ENTRY DOORS.
2. OTHER SIGNS:
   - A. IN ASSEMBLY AREAS, A SIGN NOTIFYING THE GENERAL PUBLIC OF THE AVAILABILITY OF ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED AT TICKET OFFICES OR SIMILAR LOCATIONS.
   - B. EACH DOOR TO AN EXIT SHALL HAVE A TACTILE SIGN, INCLUDING RAISED LETTERS AND BRAILLE, STATING "EXIT" AND SHALL COMPLY WITH CABO/ANSI A117.1, CBC 1011.4 AND CBC 11B-703.
   - C. AT EXITS AND ELEVATORS SERVING A REQUIRED ACCESSIBLE SPACE, BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS, SIGNS SHALL BE INSTALLED INDICATING THE LOCATION OF ACCESSIBLE MEANS OF EGRESS.
3. COLOR OF SYMBOL: THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595C.
4. BRAILLE SYMBOLS: CALIFORNIA CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED. DOTS SHALL BE 1/10 INCH ON CENTER IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS. DOTS SHALL BE RAISED 0.025 TO 0.037 (1/40 TO 1/27) INCH ABOVE THE BACKGROUND. CBC TABLE 11B-703.3.1. RECOMMENDED ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE.

4. CHARACTER PROPORTION: CHARACTER PROPORTIONS: LETTERS AND NUMBERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF UPPERCASE LETTER "O" IS BETWEEN 60% AND 110% THE HEIGHT OF THE UPPERCASE LETTER "I", AND THE STROKE THICKNESS OF THE UPPERCASE LETTER "I" IS 10% TO 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CBC SECTION 11B-703.5.4. CREATE A TEMPLATE TO TEST PROPORTIONS. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OF O, WHICHEVER IS NARROW. IF THE CHARACTER IS NOT WIDER THAN THE 110% RECTANGLE, NOR NARROWER THAN THE 60% RECTANGLE, THE PROPORTIONS ARE CORRECT. USE THE 1:10 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:20 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE. LOWER CASE CHARACTERS ARE PERMITTED.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

5. CHARACTER HEIGHT : VISUAL CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ, PER TABLE 11B-703.5.5 (REPRODUCED BELOW). THE HEIGHT IS MEASURED USING AN UPPER-CASE "I". LOWERCASE CHARACTERS ARE PERMITTED.

6. FINISH AND CONTRAST OF SYMBOL: CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTER ON A LIGHT BACKGROUND. CBC 11B-703.5.1

7. RAISED CHARACTERS AND PICTORIAL SYMBOL SIGNS. WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING:
   - A. TYPE: LETTER TYPE: LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32 INCH MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CALIFORNIA CONTRACTED GRADE 2 BRAILLE. CBC SECTION 11B-703.2 (SEE NOTE 3).
   - B. SIZE: RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH AND A MAXIMUM OF 2" HIGH.
   - C. PICTORIAL SYMBOL SIGN (PICTOGRAMS): PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOUMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMNSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6 INCHES IN HEIGHT. PICTOGRAMS SHALL HAVE A NON-GLARE FINISH AND SHALL CONTRAST WITH THEIR FIELD.
   - D. SPACING: CHARACTER SPACING SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE STROKE WIDTH MAXIMUM AT THE BASE, AND 1/8" MINIMUM AND 4 TIMES THE STROKE WIDTH MAXIMUM AT THE TOP. LINES SPACING SHALL BE 135% TO 170% OF THE RAISED CHARACTER HEIGHT. CBC 11B-703.2.

8. ENTRANCE SIGNS. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.

9. INFORMATION POSTED. BUILDINGS THAT HAVE BEEN REMODELED TO PROVIDE SPECIFIC SANITARY FACILITIES AND/OR ELEVATORS FOR PUBLIC USE THAT CONFORM TO THESE BUILDING STANDARDS SHALL HAVE THIS INFORMATION POSTED IN THE BUILDING LOBBY, PREFERABLY AS PART OF THE BUILDING DIRECTORY.

10. MOUNTING LOCATION AND HEIGHT FOR TACTILE SIGNAGE: WHERE DIRECTION OR IDENTIFICATION SIGNS ARE PROVIDED FOR INTERIOR OR EXTERIOR ROOMS, SPACES, OR FACILITIES, RAISED LETTERS SHALL ALSO BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE. CBC SECTION 11B-216.2. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR OR THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. EXIT SIGNAGE SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE SPACE. MOUNTING HEIGHT SHALL BE 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR TO THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS AND 48" MINIMUM ABOVE FINISHED FLOOR TO THE BASELINE OF THE LOWEST BRAILLE CELLS. MOUNTING LOCATION SHALL BE DETERMINED SO THAT AN 18" X 18" CLEAR SPACE IS PROVIDED CENTERED ON THE TACTILE CHARACTERS AND BEYOND ANY DOOR SWING. CBC SECTION 11B-703.4.

11. ALL SIGNS (AT MAIN ENTRANCES, TOILETS, PERMANENT ROOMS AND ASSISTIVE LISTENING SYSTEM(S), ETC.) SHALL COMPLY WITH TITLE 24, INCLUDING SECTION 11B-703.

TABLE 11B-703.5.5 VISUAL CHARACTER HEIGHT

HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 INCHES TO 70 INCHES	LESS THAN 72 INCHES	5/8 INCH
	72 INCHES AND GREATER	5/8 INCH, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 72 INCHES
GREATER THAN 70 INCHES TO 120 INCHES	LESS THAN 180 INCHES	2 INCHES
	180 INCHES AND GREATER	2 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 180 INCHES
GREATER THAN 120 INCHES	LESS THAN 21 FEET	3 INCHES
	21 FEET AND GREATER	3 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FEET

NOTE #1: MOUNT ON DOOR, SEE MOUNTING INSTRUCTION

NOTE #2: COLOR OF TRIANGLE SHALL CONTRAST WITH COLOR OF CIRCLE. COLOR OF CIRCLE SHALL CONTRAST WITH COLORS OF TRIANGLE AND DOOR. COLORS TO BE SELECTED BY THE ARCHITECT.

NOTE # 1: PROVIDE SIGNAGE W/ #2 BRAILLE @ LATCH SIDE OF DOOR.

NOTE # 2: COLOR & CONTRAST OF SIGN SHALL BE DISTINCTLY DIFFERENT FROM COLOR & CONTRAST OF THE DOOR. COLOR TO BE SELECTED BY THE ARCHITECT.

NOTE #3: SEE DETAIL BELOW FOR INDIVIDUAL SIGNAGE MOUNTING HEIGHT.

NOTE #4: WHEREVER USED, ISA PROPORTIONS SHALL MATCH CBC FIGURE 11B-703.7.2.1

TYPE b
CONSISTS OF BOTH DOOR SYMBOL AND TACTILE JAMB SIGN

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TYPICAL SIGNAGE DETAILS

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ACCESSIBLE MOUNTING 1/2" = 1'-0" (4)

TYPICAL MOUNTING HEIGHT 3/4" = 1'-0" (7)

UNOBSTRUCTED REACH HEIGHT 1/2" = 1'-0" (11)

DIMENSIONS FOR ACCESSIBILITY IN FACILITIES

TOILET (CENTERLINE) FROM WALL	17" - 18"
TOILET SEAT HT. (FF TO TOP OF SEAT)	17" - 19"
GRAB BAR HT. (FF TO TOP OF GRIPPING SURFACE)	33" - 36"
TOILET PAPER (CENTERLINE) IN FRONT OF TOILET SEAT EDGE	7" - 9"
NAPKIN DISPOSAL IN FRONT OF TOILET SEAT EDGE	NO REQUIREMENT
DISPENSER, DISPOSAL, OPERABLE PARTS OR MIRROR HT.	40" MAX.
LAVATORY / SINK TOP HT.	34" MAX.
LAVATORY / SINK KNEE CLEARANCE	27" MIN.
URINAL LIP HT.	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.
LOW DRINKING FOUNTAIN BUBBLER HT.	36" MAX.
HIGH DRINKING FOUNTAIN BUBBLER HT.	38" -43"
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
RAMP / STAIR HANDRAIL HT.	34" - 38"
DESKTOP HEIGHT	26" - 30"
DESK KNEE SPACE	27" MIN.
F.E. CABINET HANDLE & F.E. HANDLE	48" MAX.

REQUIRED DIMENSIONS 1" = 1'-0" (12)

ACCESSIBLE SHOWER HEAD AND SEAT 1/2" = 1'-0" (17)

SANITARY FACILITIES NOTES

1. IDENTIFICATION: DOORWAYS LEADING TO MEN'S SANITARY FACILITIES, SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND A VERTEX POINTING UPWARD. WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE, 1/4 INCH THICK AND 12 INCHES IN DIAMETER. UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4 INCH THICK, 12 INCHES IN DIAMETER WITH A 1/4 INCH THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12 INCH DIAMETER. THESE GEOMETRIC SYMBOLS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 58 TO 60 INCHES ABOVE FINISH FLOOR AND THEIR COLOR SHALL CONTRAST WITH THE COLOR OF THE DOOR. SEE ACCESSIBILITY SIGNAGE CRITERIA FOR ADDITIONAL REQUIREMENTS.

2. PASSAGEWAYS: PASSAGEWAYS LEADING TO SANITARY FACILITIES SHALL HAVE A CLEAR ACCESS AS SPECIFIED IN CHAPTER 11B DIVISION 4.
A. ALL DOORWAYS LEADING TO SUCH SANITARY FACILITIES SHALL HAVE A CLEAR OPENING WIDTH OF 32 INCHES (813 MM) MIN., AND 34 INCHES (864 MM) MIN. CLEAR FOR SIDE ENTRY.
B. LEVEL AREA: SHALL COMPLY WITH CBC SECTION 11B-404.2.4

3. TOILET FACILITIES

3.1 MULTIPLE-ACCOMMODATION TOILET FACILITIES: MULTIPLE-ACCOMMODATION TOILET FACILITIES SHALL HAVE THE FOLLOWING:

A. WHEELCHAIR CLEARANCE. A CLEAR SPACE MEASURED FROM THE FLOOR TO A HEIGHT OF 27 INCHES ABOVE THE FLOOR, WITHIN THE SANITARY FACILITY ROOM, OF SUFFICIENT SIZE TO INSCRIBE A CIRCLE WITH A DIAMETER NOT LESS THAN 60 INCHES. DOORS SHALL NOT SWING INTO THE FLOOR SPACE REQUIRED FOR ANY FIXTURE. THE LAYOUT OF THE COMPARTMENTS SHALL COMPLY WITH CBC FIGURE 11B-604.8.1.1.2 OR 11B-604.8.1.1.3.

B. CLEAR SPACE: THE COMPARTMENT SHALL PROVIDE A CLEAR SPACE OF MINIMUM 60 INCHES FROM THE SIDE WALL NEXT TO A FIXTURE AND 56 INCHES DEEP FROM THE WALL BEHIND THE TOILET. THERE SHALL BE 17 TO 18 INCHES FROM THE CENTERLINE OF THE WATER CLOSET TO THE WALL. A MINIMUM 48-INCH-LONG CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET IF THE COMPARTMENT HAS AN END-OPENING DOOR (FACING THE WATER CLOSET). A MINIMUM 60 INCH-LONG CLEAR SPACE SHALL BE PROVIDED IN A COMPARTMENT WITH THE DOOR LOCATED AT THE SIDE AND OPENING OUT. PROVIDE MINIMUM 72" IF THE DOOR IS OPENING IN. GRAB BARS SHALL NOT PROJECT MORE THAN 3 INCHES INTO THE CLEAR SPACES AS SPECIFIED ABOVE.

C. COMPARTMENT DOORS: WATER CLOSET COMPARTMENT SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. DOORS SHALL COMPLY WITH STANDARD ACCESSIBILE CLEARANCES, EXCEPT THAT IF THE APPROACCH IS FROM THE PUSH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 48 INCHES MINIMUM MEASURED PERPENDICULAR TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION.

THE INSIDE AND OUTSIDE OF THE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH, MOUNTING HEIGHT OF 34" TO 44" A.F.F. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES AND THE SPACE IMMEDIATELY IN FRONT OF A WATER CLOSET COMPARTMENT SHALL NOT BE LESS THAN 48 INCHES (1219 MM) AS MEASURED AT RIGHT ANGLES TO COMPARTMENT DOOR IN ITS CLOSED POSITION.

3.2 SINGLE-ACCOMMODATION TOILET FACILITIES: THERE SHALL BE SUFFICIENT SPACE IN THE TOILET ROOM FOR A WHEELCHAIR MEASURING 30 INCHES WIDE BY 48 INCHES LONG TO ENTER THE ROOM AND PERMIT THE DOOR TO CLOSE. THERE SHALL BE IN THE ROOM A CLEAR FLOOR SPACE OF AT LEAST 60 INCHES IN DIAMETER. THE WATER CLOSET SHALL BE LOCATED IN A SPACE WHICH PROVIDES A CLEAR SPACE OF MINIMUM 60 INCHES FROM THE SIDE WALL NEXT TO A FIXTURE AND 56 INCHES DEEP FROM THE WALL BEHIND THE TOILET. THERE SHALL BE 17 TO 18 INCHES FROM THE CENTERLINE OF THE WATER CLOSET TO THE WALL. A MINIMUM 48 INCHES OF CLEAR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. DOORS ARE PERMITTED TO SWING OVER FIXTURE CLEAR SPACES IN SINGLE-ACCOMMODATION TOILET FACILITIES. ALL DOORS, FIXTURES AND CONTROLS SHALL BE ON AN ACCESSIBLE ROUTE. THE MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL BE 36 INCHES EXCEPT AT DOORS.

4. GRAB BARS
A. LOCATION: GRAB BARS LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE ACCESSIBLE TOILET STALL OR COMPARTMENT, SHALL BE SECURELY ATTACHED AT 33 TO 36 INCHES ABOVE THE FLOOR, MEASURED TO THE TOP OF THE GRIPPING SURFACE. SIDE GRAB BARS SHALL BE AT LEAST 42 INCHES LONG, LOCATED 12 INCHES MAX FROM THE REAR WALL WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET. REAR GRAB BARS SHALL NOT BE LESS THAN 36 INCHES LONG, AND SHALL EXTEND 12" TO ONE SIDE AND 24" INCHES TO OTHER SIDE OF WATER CLOSET CENTERLINE. B. DIAMETER OR WIDTH: THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 INCHES TO 2 INCHES (32 MM TO 51 MM) OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES (38 MM). SEE FIGURE 11B-609.2.2.
C. STRUCTURAL STRENGTH: GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL BE ABEL TO RESIST A 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE ASSEMBLY PER 11B-609.8. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
D. SURFACE: A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH (3.2 MM).
E. PROJECTION: THE GRAB BAR SHALL NOT PROJECT MORE THAN 4" INTO THE REQUIRED CLEAR FLOOR SPACE. CBC SECTION 11B-604.3.2

5. TOILET ROOM FIXTURES AND ACCESSORIES
A. LAVATORY FIXTURES: A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY.TOE SPACE SHALL EXTEND MINIMUM 9 INCHES ABOVE FINISH FLOOR AND SHALL EXTEND MINIMUM 17 INCHES AND MAXIMUM 19 INCHES UNDER THE LAVATORY. KNEE SPACE SHALL BE 11 INCHES DEEP MINIMUM AT 9 INCHES ABOVE THE FINISH FLOOR, 8 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR, AND 29 INCHES ABOVE THE FINISH FLOOR AT THE EDGE OF THE LAVATORY SINK.
B. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE MAX 40 INCHES FROM THE FLOOR WHERE INSTALLED ABOVE LAVATORIES OR COUNTERTOPS. WHERE MIRRORS ARE INSTALLED ELSEWHERE, ONE SHALL BE LOCATED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAX ABOVE FINISH FLOOR.
C. TOWEL, SANITARY NAPKINS, WASTE RECEPTACLES, AND OTHER SIMILAR DISPENSING AND DISPOSAL FIXTURES: WHERE PROVIDED, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40 INCHES FROM THE FINISHED FLOOR.
D. TOILET TISSUE DISPENSERS: THE TOILET TISSUE DISPENSER AT EACH ACCESSIBLE TOILET SHALL BE LOCATED ON THE WALL SO THAT THE CENTERLINE OF THE DISPENSER IS 7 TO 9 INCHES HORIZONTALLY IN FRONT OF THE FRONT EDGE OF THE TOILET SEAT, WITH THE BOTTOM OF THE DISPENSER BELOW THE GRAB BAR AND 19 INCHES MINIMUM ABOVE FINISH FLOOR TO CENTERLINE OF ROLL OR DELIVERY HEIGHT. DISPENSERS THAT CONTROL DELIVERY OR THAT DOES NOT PERMIT CONTINUOUS PAPER FLOW SHALL NOT BE USED. LIMIT THE PROJECTION OF A SURFACE OR SEMI-RECESS MOUNTED DISPENSER FROM ENCROACHING MORE THAN FOUR INCHES FROM THE FACE OF THE WALL OR PARTITION. DISPENSER SHALL NOT BE LOCATED BEHIND ANY GRAB BAR.
E. TOILET PAPER AND FEMININE NAPKIN DISPENSERS LOCATED ON THE GRAB BAR SIDE OF AN ACCESSIBLE TOILET ROOM OR STALL SHALL NOT BE LOCATED CLOSER THAN 1-1/2"CLEAR OF THE TANGENT POINT OF THE GRAB BAR. DO NOT LOCATE SURFACE MOUNTED ACCESSORIES ABOVE GRAB BARS
F. URINALS: WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR FLOOR SPACE 30 INCHES BY 48 INCHES IN FRONT OF THE URINAL TO ALLOW FORWARD APPROACH.
G. COAT HOOKS, SHELVES, AND SIMILAR ACCESSORIES SHALL BE LOCATED MINIMUM 40 INCHES AND MAXIMUM 48 INCHES ABOVE THE FINISH FLOOR, WHERE THE REACH IS NOT OBSTRUCTED.

SANITARY FACILITY NOTES 1" = 1'-0" (20)

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DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

TYP. ACCESSIBILITY DETAILS

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Date	5/31/2018
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Sheet Number	AD-701

ACCESSIBLE SHOWER CONTROLS 1 1/2" = 1'-0" (7)

NOTE:
REFER TO 9/AD-111 FOR INFORMATION NOT SHOWN. ALL FASTENERS STAINLESS STEEL UNLESS OTHERWISE NOTED.

ACCESSIBLE SHOWER BENCH 3" = 1'-0" (8)

TOILET PARTITION ANCHORAGE 3" = 1'-0" (5)

BACKING @ TOILET SUPPORT 3" = 1'-0" (10)

PLAN

SECTION

NOTE: ADA BENCH TO BE 4'-0" LONG MIN.

ADA LOCKER ROOM BENCH 1 1/2" = 1'-0" (17)

NOTES:
FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED. PUSH TYPE & ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

LEGEND

INDICATES REQUIRED CLEAR SPACE UNDER LAVATORY

CLEARANCE @ LAVORATORY 1" = 1'-0" (18)

NOTE: SEE DETAIL 6/AD-901 FOR DRINKING FOUNTAIN ATTACHMENT DETAILS

DRINKING FOUNTAIN 1" = 1'-0" (15)

GRAB BAR SUPPORT 3" = 1'-0" (20)

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ACCESSIBLE SIDEWALK OBSTRUCTIONS 1/2" = 1'-0" (5)

ACCESSIBLE PARKING PAVEMENT SYMBOL 1" = 1'-0" (10)

ACCESSIBLE ACCESS AISLE 1/2" = 1'-0" (13)

TYP. ALIGNED PLAN N.T.S.

TYP. SECTION A-A N.T.S.

SECTION B-B

TRUNCATED DOMES - ALIGNED 1" = 1'-0" (15)

"FINE" SIGN IN ACCESSIBLE PARKING SIGN 1" = 1'-0" (17)

PASSENGER LOADING SIGN 1" = 1'-0" (18)

ACCESSIBLE PARKING SIGN 1" = 1'-0" (19)

ACCESSIBLE PARKING ENTRY SIGN 1" = 1'-0" (20)

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CONSTRUCTION DOCUMENTS

No.	Description	Date

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AD-703

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ELEVATION

SECTION - A

10-018 DRINKING FOUNTAIN ATTACHMENT 1" = 1'-0" (6)

DOUBLE - LOADED

SINGLE - LOADED

CURB @ LOCKER 3" = 1'-0" (10)

NOTE: FOR VERTICAL OR HORIZONTAL INSTALLATION

SPEAKER INSTALLATION 3" = 1'-0" (12)

PLAN

SECTION

NOTE:
LOCKER ROOM BENCHES TO MATCH CONSTRUCTION OF EXISTING BENCHES

BENCH ATTACHMENT 3" = 1'-0" (18)

CEILING MOUNTED LIGHT FIXTURE STANDOFF 3" = 1'-0" (14)

CURTAIN ROD ATTACHMENT 3" = 1'-0" (15)

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

MISC. DETAILS

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I. GENERAL

1. THESE GENERAL NOTES APPLY, UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL CONSTRUCTION, TESTING AND INSPECTING SHALL CONFORM TO THE BUILDING CODE REFERENCED UNDER THE HEADING "DESIGN CRITERIA".
3. STANDARDS REFERENCED IN THESE NOTES SHALL BE THE LATEST EDITION, UNLESS OTHERWISE NOTED.
4. THE NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS.
5. DETAILS SHALL BE APPLIED TO EVERY LIKE CONDITION WHETHER OR NOT THEY ARE REFERENCED IN EVERY INSTANCE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.
6. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING FEATURES AND CONDITIONS (DIMENSIONS, ELEVATIONS, ETC.) UPON WHICH THESE DRAWINGS RELY.
7. OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.
8. REFER TO ARCHITECTURAL PLANS FOR FINISH FLOOR ELEVATIONS, FLOOR DEPRESSIONS, OPENINGS, SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, NON-BEARING PARTITIONS, STAIR HANGERS, ETC. REFER TO MECHANICAL AND ELECTRICAL PLANS FOR SLEEVES, OPENINGS, AND HANGERS FOR PIPES, DUCTS, AND EQUIPMENT. COORDINATE THESE ITEMS WITH STRUCTURAL WORK.
9. DO NOT SCALE DRAWINGS. COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
10. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
11. THE STRUCTURAL DRAWINGS AND PROJECT SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THE METHODS, PROCEDURES, AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.

II. DESIGN CRITERIA

1. BUILDING CODE: CALIFORNIA BUILDING CODE (CBC) 2016 EDITION
2. OCCUPANCY CATEGORY: III
3. DEAD LOADS
   A. SELF WEIGHT OF STRUCTURE
4. LIVE LOADS:
   A. ROOF LIVE LOAD: 20 PSF, 300 LB POINT LOAD (see ASCE 7-10 Table 4-1)
5. WIND DESIGN DATA:
   RISK CATEGORY: III
   WIND EXPOSURE CATEGORY: C
   BASIC WIND SPEED: V=115 MPH, 3 SEC GUST
6. EARTHQUAKE DESIGN DATA:

   SEISMIC IMPORTANCE FACTOR: I = 1.25
   SEISMIC DESIGN CATEGORY: E
   SITE CLASS: D

   BASIC SEISMIC RESISTING SYSTEM: WOOD SHEAR WALLS
   SYSTEM OVERSTRENGTH FACTOR: $\Omega = 3.0$
   DEFLECTION AMPLIFICATION FACTOR: $C_d = 4.0$

   SPECTRAL RESPONSE ACCELERATION
   1.) SHORT PERIOD: $S_s = 2.219$
   2.) 1 SECOND PERIOD: $S_1 = 0.829$
   DESIGN SPECTRAL RESPONSE ACCELERATION
   1.) SHORT PERIOD: $S_{ds} = 1.480$
   2.) 1 SECOND PERIOD: $S_{d1} = 0.829$
   SEISMIC RESPONSE COEFFICIENT: $C_s = 0.285$
   DESIGN BASE SHEAR: V = Cs TIMES W (=BUILDING SEISMIC DEAD LOAD)
   ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

III. FOUNDATION

1. FOUNDATION DESIGN IS BASED ON SOILS REPORT RECOMMENDATIONS BY EARTH SYSTEMS, PROJECT NO: 302294-00, REPORT NO: 18-7-25, DATED: JULY 12, 2018.
2. FOUNDATION TYPE: CONTINUOUS FOOTING AND PAD FOOTINGS
3. DESIGN ALLOWABLES:
   A. SOIL BEARING: 1.5 KSF (DL+LL)
   B. LATERAL BEARING: 100 PSF/FT
   C. COHESION RESISTANCE = 130 PSF
4. FOLLOW SOILS REPORT RECOMMENDATIONS FOR ALL FOUNDATION WORK.
5. THE SOILS ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL EXCAVATIONS, SUB GRADES, FILLS AND BACK FILLS. NO REINFORCEMENT OR CONCRETE SHALL BE PLACED IN ANY EXCAVATION OR ON ANY SUBGRADE OR FILL UNTIL THAT WORK HAS BEEN REVIEWED AND APPROVED IN WRITING BY THE DSA ENGINEER.
6. ALL FOOTINGS SHALL BEAR ON EITHER FIRM UNDISTRUBED SOIL OR COMPACTED STRUCTURAL FILL (NOT A COMBINATION OF BOTH). THE BOTTOM OF FOOTING ELEVATIONS ARE SHOWN ON THE PLANS. WHERE SOFT OR LOOSE MATERIAL IS FOUND AT BOTTOM OF FOOTING ELEVATIONS, THE SOFT OR LOOSE MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL AS DIRECTED BY THE SOILS ENGINEER.
7. FOR RETAINING WALLS, FREE STANDING WALLS AND OTHER STRUCTURES, ALL EXISTING FILL SHOULD BE REMOVED AND REPLACED WITH STRUCTURAL FILL. THE NEED FOR AND LIMITS FOR DEEPER EXCAVATION FOR THESE LIGHTLY LOADED STRUCTURES SHOULD BE DETERMINED BY THE DSA FIELD ENGINEER DURING GRADING BASED ON THE ACTUAL CONDITIONS ENCOUNTERED.
8. THE SIDES OF FOUNDATIONS SHOWN STRAIGHT ARE FORMED. FOUNDATIONS POURED AGAINST THE EARTH AT CONTRACTOR'S OPTION REQUIRE THE FOLLOWING PRECAUTIONS:
   A. SIDES OF EXCAVATION MUST BE VERTICAL (OVER POURING AND MUSHROOMING NOT ALLOWED).
   B. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP OF SOIL SLOUGHING BEFORE, DURING, AND AFTER POUR.
9. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATION FOR EITHER SURFACE WATER, GROUND WATER OR SEEPAGE IF REQUIRED.
10. BACK FILL OVER EXCAVATED FOOTINGS WITH CONCRETE OF SAME DESIGN STRENGTH AS FOOTING CONCRETE OR COMPACTED STRUCTURAL FILL, AS DIRECTED OTHERWISE BY THE SOILS ENGINEER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES, EXISTING STRUCTURES, ETC., WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
12. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
13. SLABS ON GRADE SHALL BE SUPPORTED ON NATURAL GRADE OR COMPACTED STRUCTURAL FILL ACCORDING TO THE RECOMMENDATIONS OF THE 2018 CBC, PROJECT SPECIFICATIONS.
14. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOUNDATIONS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL, UNLESS INDICATED OTHERWISE IN THE DRAWINGS. MAINTAIN A 1:1 SLOPE FROM BOTTOM EDGE OF ANY EXCAVATION.
15. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEETING AND SHORING ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES.

III. FRAMING LUMBER

1. FRAMING LUMBER GRADES: WWPA GRADING RULES. STRUCTURAL AND FRAMING MEMBERS SHALL HAVE MOISTURE CONTENT NOT TO EXCEED 19 PERCENT AT THE TIME OF INSTALLATION. STRESS VALUES SHOWN HEREIN ARE VALUES:
   A. 2x4 STUDS (NON BEARING PARTITIONS): CONST. GRADE, D.FIR/LARCH, S.DRY
   B. 2x & 3x STUDS: No. 1, D.FIR/LARCH, S.DRY
   C. 4x STUDS & LARGER: No. 1, D.FIR/LARCH, S.DRY
   D. ALL OTHER STRUCTURAL LIGHT FRAMING: No. 1, D.FIR/LARCH, S.DRY
   E. STRUCTURAL JOISTS & PLANKS: No. 1, D.FIR/LARCH, S.DRY
   F. 3x & 4x MEMBERS: NO. 1, D.FIR/ LARCH / S.DRY
   G. POSTS & TIMBERS: No. 1, D.FIR/LARCH, S.DRY
2. TREATED LUMBER:
   A. ALL WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER AND SUBJECT TO DECAY SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH. TREATMENT PER THE CURRENT AMERICAN WOOD PRESERVERS ASSOCIATION STANDARDS. ALL FASTENERS AND CONNECTORS CONNECTING TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
3. GLUE LAMINATED MEMBERS U.N.O. :
   A. BEAMS: SPECIES = DOUGLAS FIR-LARCH Fb = 2400 PSI ,COMB 24F-V4 CAMBER = SPAN/400, EXCEPT AS NOTED. NO CAMBER IS REQUIRED IN BEAMS WITH SPAN LESS WITH THAN 20'-0"
   B. ALL CANTILEVERED GLUE LAM MEMBERS TO BE 24F-V8
   C. MEMBERS SHALL BE FABRICATED WITH WATERPROOF ADHESIVE.
   D. MEMBERS SHALL BE MANUFACTURED PER ANSI A190.1-CURRENT EDITION WITH THE ADDITIONAL REQUIREMENT THAT THE MOISTURE CONTENT AT THE TIME OF MANUFACTURE SHALL NOT EXCEED 12%.
4. STRUCTURAL SHEATHING:
   A. ALL PANELS TO BE PLYWOOD OF MINIMUM 5 PLY CONSTRUCTION. EACH PANEL SHALL BEAR THE QUALITY TRADEMARK STAMP OF THE "AMERICAN PLYWOOD ASSOCIATION".
   B. FLOORS SHALL BE NAILED & GLUED PER APA GLUED FLOOR SYSTEM REQUIREMENTS. THE GLUE SHALL CONFORM TO PERFORMANCE SPECIFICATION AFG-01. FOLLOW MANUFACTURE'S SPECIFIC APPLICATION RECOMMENDATIONS:
   C. WALLS SHALL BE 1/2", "C-D", STRUCTURAL 1 GROUP 1, SPAN INDEX 32/16, EXPOSURE 1.
   D. MINIMUM NAILING REQUIREMENTS:
      1.) NAIL SIZE: USE 0.148" DIAMETER x 2 1/4" GUN NAIL. AT STEEL STUD CONSTRUCTION: NO. 8 FLAT HEAD SELF-DRILLING TAPPING SCREW WITH A MINIMUM HEAD DIAMETER OF 0.285 INCHES OR NO. 10 FLAT HEAD SELF-DRILLING TAPPING SCREW WITH A MINIMUM HEAD DIAMETER OF 0.333 INCHES
      2.) SPACING: SEE DRAWINGS FOR SPECIAL NAILING REQUIREMENTS:
         a. PANEL EDGES @ 6" OC.
         b. INTERIOR BEARINGS @ 12" OC.
         c. GLUE LAM BEAMS & SHEAR COLLECTORS @ 6" OC.
      3.) PROVIDE 2x SOLID BLOCKING AT PANEL EDGES OF WALL SHEATHING.
      4.) SHEATHING FASTENERS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE FACE PLY.
      5.) HD GALVANIZED NAILS SHALL BE USED WHEN NAILING TO PRESSURE TREATED MEMBERS.
   E. PANEL LAYOUT:
      1.) LONG DIMENSION OF PANEL TO BE PERPENDICULAR TO FRAMING MEMBERS, EXCEPT PANELS AT WALLS MAY BE INSTALLED WITH LONG DIMENSION PARALLEL TO STUDS.
      2.) END JOINTS IN ADJACENT RUNS SHALL BE STAGGERED 4 FEET.
      3.) MINIMUM PANEL WIDTH SHALL BE 12".
      4.) EDGES OF ALL PANELS LESS THAN 24" WIDE SHALL BE BACKED BY BLOCKING (2x4 MIN SIZE).
6. JOIST HANGERS AND FRAMING CONNECTORS:
   A. DETAILS ARE SHOWN WITH SIMPSON "STRONG-TIE" CONNECTORS. NAILING SHALL BE PER ICC RESEARCH RECOMMENDATIONS TO ACHIEVE FULL ICC APPROVED LOADS. THE MAXIMUM GAP BETWEEN END OF JOIST AND FACE OF SUPPORTING MEMBER SHALL BE 1/8". WHERE CONNECTION IS NOT DETAILED, PROVIDE APPROPRIATE CONNECTOR PER MANUFACTURER'S RECOMMENDATION. BOLTS FASTENING WOOD MEMBERS SHALL BE FITTED WITH STANDARD CUT WASHERS AGAINST NUT AND BOLT HEAD. HOLES FOR BOLTS SHALL BE BORED 1/32" MAXIMUM OVERSIZE. RETIGHTEN ALL BOLTS BEFORE CLOSING IN.
   B. USE TOP FLANGE JOIST HANGERS WHERE A MEMBER FRAMES INTO THE SIDE OF ANOTHER FRAMING MEMBER, UNLESS OTHERWISE NOTED.
   C. ALL HANGERS TO BE SELECTED TO MATCH SIZE OF SUPPORTED MEMBER AND SHALL HAVE FULL NAILING AS SHOWN THE ICC REPORT
   D. PROVIDE SLOPED SEATS HANGERS FOR SLOPING I JOIST INSTALLATIONS
   E. SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT AND HAVE ICC APPROVED LOAD CAPACITIES EQUAL TO OR GREATER THAN THE SIMPSON "STRONG-TIE" CONNECTORS
   F. HD GALVANIZED NAILS SHALL BE USED WHEN NAILING TO PRESSURE TREATED MEMBERS
   G. SIMPSON HANGERS AT PRESSURE TREATED MEMBERS SHALL HAVE ZMAX COATING
7. SILL PLATES AND ANCHOR BOLTS:
   A. SILL PLATES SHALL BE DOUGLAS FIR/LARCH NO.2 AND PRESSURE TREATED.
   B. SILL PLATES ARE TO BEAR FULLY ON THE TOPS OF THE FOUNDATION WALLS AND/OR SLABS. THE TOPS OF ALL FOUNDATION WALLS/SLABS SHALL BE SMOOTH AND LEVEL. THE TOPS OF FOUNDATION WALLS/SLABS SHALL BE CONSIDERED LEVEL WHEN THE MAXIMUM DEVIATION FROM GRADE IS +/-1/8 INCH AND THE DEPRESSION BETWEEN HIGH SPOTS IS NOT GREATER THAN 1/8 INCH ALONG A 10 FOOT STRAIGHT EDGE.
   C. ANCHOR BOLTS TO BE GALVANIZED OR STAINLESS STEEL ASTM F 1554, GRADE 36 WITH STANDARD BOLT HEAD OR EQUAL DEFORMATION IN THE EMBEDDED PORTION. CUT THREADS ARE REQUIRED AT ALL ANCHOR BOLTS.
   D. THE SPACING AND SIZE OF ANCHOR BOLTS SHALL BE AS SHOWN IN DETAILS.
   E. LOCATE AN ANCHOR BOLT AT 6" MINIMUM TO 12" MAXIMUM FROM ENDS OF EACH PIECE. EACH LENGTH OF PLATE TO HAVE A MINIMUM OF TWO ANCHOR BOLTS.
   F. INSTALL EXTRA ANCHOR BOLTS AS REQUIRED. WHERE PLATE IS CUT OR NOTCHED.
   G. SILL PLATES SHALL NOT BE DAPPED AT BOLT HEADS.
   H. PROVIDE 3x3x1/4 GALVANIZED OR STAINLESS STEEL PLATE WASHERS AT ALL ANCHOR BOLTS.
8. FABRICATION OF TIMBER CONNECTORS:
   A. FABRICATION SHALL BE IN ACCORDANCE WITH 2015 EDITION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
      1.) A WASHER OR METAL PLATE SHALL BE PROVIDED BETWEEN THE WOOD AND THE BOLT HEAD AND/OR NUT. RETIGHTEN BOLTS BEFORE CLOSING IN.
      2.) BOLT HOLES SHALL BE 1/16" MAXIMUM OVERSIZE.
      3.) LAG BOLTS:
         a. LEAD HOLES SHALL BE DRILLED FOR LAG BOLTS: SHANK PORTION = SHANK DIAMETER. THREADED PORTION = 70% OF SHANK DIAMETER.
         b. LAGS BOLTS SHALL BE INSTALLED USING A PROPER WRENCH.
9. BLOCKING / BRIDGING:
   A. PROVIDE FULL DEPTH SOLID BLOCKING BETWEEN JOISTS AND RAFTERS OVER SUPPORTS.
   B. PROVIDE 2x SOLID BLOCKING BETWEEN STUDS AT MID HEIGHT IN WALLS OVER 8'-0" TALL.
10. NOTCHING AND DRILLING FRAMING MEMBERS:
   A. THE CONTRACTOR IS CAUTIONED ABOUT THE DRILLING AND NOTCHING OF STUDS, PLATES, JOISTS, BEAMS, COLUMNS,AND OTHER FRAMING MEMBERS.
   B. THE CONTRACTOR SHALL CONSULT WITH THE STRUCTURAL ENGINEER BEFORE NOTCHING OR DRILLING ANY FRAMING MEMBERS WHERE NOT SPECIFICALLY DETAILED IN STRUCTURAL DRAWINGS.

III. FRAMING LUMBER CONT.

11. NAILING SCHEDULE:

CONNECTION	NAILING
JOIST TO SUPPORT - TOE NAIL	3 - 8d
BRIDGING TO JOIST - TOE NAIL EACH END	2 - 8d
BLOCKING TO JOIST - TOE NAIL EACH END	3 - 8d
BLOCKING TO PLATE OR BEAM - TOE NAIL	3 - 12d
2" DECKING TO SUPPORT - BLIND & FACE NAIL	2 - 16d
STUD TO PLATE - TOE NAIL	4 - 8d
OR - END NAIL 2x6 & 2x4 STUDS	3 - 16d
AND - END NAIL 2x8 STUDS	4 - 16d
MULTIPLE STUDS OR LAMINATED COLUMNS - FACE NAIL	16d @ 12" OC
TOP PLATES - FACE NAIL	16d @ 12" OC
TOP PLATES - JOINTS & INTERSECTIONS - FACE NAIL	4 - 16d EACH END
LAMINATED HEADER - FACE NAIL ALONG EACH EDGE	16d @ 12" OC
JOISTS, LAPS OVER SUPPORTS - FACE NAIL	4 - 16d
BUILT-UP CORNER STUDS	16d @ 12" OC

   A. NAILING SCHEDULE AND THE STRUCTURAL DETAILS ARE BASED ON THE USAGE OF "COMMON" WIRE NAILS, EXCEPT THAT 16d "SINKER" NAILS (0.148" DIA x 3-1/4") MAY BE USED WHERE 16d IS SPECIFIED. IF "GUN" NAILS ARE USED, THE CONTRACTOR SHALL SUBMIT NAIL DATA FOR REVIEW PRIOR TO BEGINNING CONSTRUCTION.
   B. HD GALVANIZED OR STAINLESS STEEL NAILS SHALL BE USED WHEN NAILING TO PRESSURE TREATED MEMBERS

IV. CONCRETE

1. ALL CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH ACI 318. USE MIXES WITH A MAXIMUM AGGREGATE SIZE APPROPRIATE FOR FORM AND REBAR CLEARANCES TO BE ENCOUNTERED IN ACCORDANCE WITH ACI RECOMMENDATIONS.
2. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNERS TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH CBC 2016 SECTION 1903A, 1904A, AND ACI 318. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
3. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR II.
4. AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C 33 AND PROJECT SPECIFICATIONS.
5. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C 330.
6. CONCRETE SHALL HAVE THE FOLLOWING 28 DAY STRENGTHS, F'c: (ALL CONCRETE SHALL BE NORMAL WEIGHT, EXCEPT AS NOTED)
   A. FOUNDATIONS: 4000 PSI.
   B. SLABS ON GRADE: 3000 PSI
   C. ALL OTHER CONCRETE: 3000 PSI, U. N. O.
7. SCHEDULING OF WORK MAY REQUIRE ACHIEVEMENT OF DESIGN STRENGTH IN A SHORTER PERIOD OF TIME.
8. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED (1/4" AMPLITUDE) BY SAND BLASTING OR MECHANICAL MEANS. CLEAN BEFORE POUR. LOCATION TO BE APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATION PLAN OR ALL PROPOSED JOINTS NOT INDICATED ON DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK.
9. ALL CONCRETE TO BE REINFORCED, UNLESS SPECIFICALLY NOTED "NOT REINFORCED".
10. CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED 30% OF SLAB THICKNESS, AND SHALL BE PLACED FOUR DIAMETERS MINIMUM APART, UNLESS SPECIFICALLY DETAILED OTHERWISE.
11. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE PRIOR TO POURING CONCRETE. DO NOT CUT REINFORCING.
12. CORING OF CONCRETE IS NOT PERMITTED UNLESS REVIEWED BY THE STRUCTURAL ENGINEER.
13. EXPOSED PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4" CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
14. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL ENSURE THAT ALL REINFORCING AND EMBEDMENTS, INCLUDING COLUMN ANCHOR BOLTS, ARE PROPERLY LOCATED AND SECURELY TIED IN PLACE.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING CURING CONCRETE FROM FREEZING AND HOT WEATHER PER ACI 306.1 AND ACI 305 RESPECTIVELY.
16. NO LOADS SHALL BE PLACED ON STRUCTURAL CONCRETE SLABS WITHIN 7 DAYS AFTER CONCRETE IS PLACED. AFTER CONCRETE IS PLACED, IN NO CASE SHALL THE SUPERIMPOSED CONSTRUCTION LOADS BE GREATER THAN SPECIFIED DESIGN LIVE LOADS, UNLESS THE WORK IS SHORED.
17. CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE THAT PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
18. PROVIDE LIGHTWEIGHT SELF-LEVELING MATERIAL AT ELEVATED CONCRETE SLABS AND CONCRETE FILL OVER METAL DECK AS REQUIRED TO MEET FLOOR FLATNESS AND LEVELNESS REQUIREMENTS.

V. REINFORCING STEEL

1. ALL REINFORCING STEEL FOR CONCRETE AND/OR MASONRY CONSTRUCTION SHALL BE PLACED IN CONFORMANCE WITH "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318; "BUILDING CODE REQUIREMENTS FOR MASONRY CONSTRUCTION", ACI 530; "SPECIFICATIONS FOR MASONRY STRUCTURES", ACI 530.1; AND THE "ACI DETAILING MANUAL" AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.
2. REINFORCING STEEL:
   A. DEFORMED BARS, ASTM A 615 GRADE 60. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
   B. WELDED WIRE FABRIC, ASTM A 185.
   C. SHEAR WALL BOUNDARY ELEMENTS, LATERAL LOAD RESISTING FRAME ELEMENTS, AND AT WELDED REINFORCING, ASTM A706.
3. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER, UNLESS OTHERWISE NOTED:
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3".
   B. CONCRETE FORMED AND EXPOSED TO EARTH OR WEATHER:
      1.) #6 THROUGH #11 BARS: 2".
      2.) #5, W31 OR D31 WIRE, AND SMALLER: 1 1/2".
   C. CONCRETE NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH THE GROUND:
      1.) SLABS AND WALLS: 3/4".
      2.) BEAMS AND COLUMNS PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1 1/2"
4. ALL LAP SPLICES SHALL BE CLASS B SPLICE AND 2'-0" MINIMUM, UNLESS OTHERWISE NOTED.
5. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF WALL OR COLUMN REINFORCEMENT. EXTEND DOWELS A LAP SPLICE LENGTH INTO WALL OR COLUMN AND TERMINATE WITH STANDARD HOOK 3" ABOVE BOTTOM OF FOOTING, UNLESS OTHERWISE NOTED.
6. ALL REINFORCING STEEL AND EMBEDMENTS TO BE HELD SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO ALLOW WALKING ON REINFORCEMENT.
7. WELDING OF REINFORCING IS PROHIBITED, UNLESS APPROVED BY STRUCTURAL ENGINEER.
8. REINFORCEMENT SHALL BE PLACED IN RELATIVE POSITION SHOWN ON THE DRAWINGS. NO SPLICES IN REINFORCING WILL BE PERMITTED, UNLESS SHOWN IN THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
9. STAGGER LAP SPLICES OF ADJACENT BARS IN CONTINUOUS FOUNDATION MEMBERS 5'-0" MIN.
10. FUSION WELDING OF RODS TO LONGITUDINAL REBAR IS PROHIBITED
    FUSION WELDING OF RODS TO STIRRUPS IS NOT PERMITTED UNLESS SPECIFICALLY APPROVED BY S.E.O.R, & D.S.A.

VI. STRUCTURAL OBSERVATION

1. THE OWNER SHALL EMPLOY THE S.E.O.R. RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN CBC 2016 SECTION 1709A. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

2. STRUCTURAL OBSERVATION SHALL BE PERFORMED FOR THE FOLLOWING CONSTRUCTION STAGES:
   A. PRIOR TO CONCRETE POUR(S) OF FOOTINGS
   B. PRIOR TO COVER OF:
      1) NEW EQUIPMENT ATTACHEMENT POINTS
      2) ROOF FRAMING SYTEM

VII. EXISTING CONDITION

EXISTING CONDITIONS ARE SHOWN BASED ON AVAILABLE BUILDING DOCUMENTS AS PREPARED BY HILLMAN & NOWELL DATED 09/1947 . THE CONTRACTOR SHALL NOTIFY THE SEOR IF CONDITIONS ARE NOT SHOWN PRIOR TO PROCEEDING WITH THE WORK.

VIII. POST-INSTALLED CONCRETE AND MASONRY ANCHORS

1. INSTALLATION HOLES FOR POST-INSTALLED ANCHORS SHALL BE DRILLED WITH A ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE THAT EXISTING REINFORCING IS NOT DAMAGED. ALL MISDRILLED OR UNACCEPTABLE HOLES SHALL NOT BE USED AND GROUTED SOLID.
2. SPECIAL INSPECTION AND ANCHOR TESTING:
   A. SPECIAL INSPECTION IS REQUIRED UNLESS NOTED OTHERWISE.
      1) DRILL-BIT COMPLIANCE WITH ANSI B94 12-1977.
      2) CHECK HOLE DEPTH & CLEANLINESS, PRODUCT DESCRIPTION INCLUDING PRODUCT NAME, ROD DIAMETER AND LENGTH.
      3) VERIFY EPOXY/ADHESIVE EXPIRATION DATE.
      4) VERIFY INSTALLATION AND IN-SERVICE TEMPERATURE REQUIREMENTS MEET MANUFACTURER'SCURRENT ICC REPORT REQUIREMENTS.
      5) CHECK ANCHOR INSTALLATION METHOD REQUIREMENTS WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE CURRENT ICC REPORT.
   B. PERFORM PULL-OUT OR TORQUE TEST WHERE SPECIFICALLY NOTED IN DRAWINGS.
3. ADHESIVE ANCHORS & REINFORCING STEEL DOWELS: INSTALLATION SHALL BE IN ACCORDANCE WITH CURRENT PRODUCT ICC REPORT. THE FOLLOWING EPOXIES ARE APPROVED:
   A. CONCRETE: DIAMETER AS NOTED IN DETAILS. MINIMUM EMBEDMENT = 8 DIAMETERS.
      1) **SET-XP EPOXY ADHESIVE AS MANUFACTURED BY SIMPSON STRONGTIE, ICC-ESR 2508**
      2) **HIT-RE-500-SD AS MANUFACTURED BY HILTI, INC., ICC-ES ESR 2322.**
   B. SOLID GROUTED MASONRY: DIAMETER AS NOTED IN DETAILS. MINIMUM EMBEDMENT = 8 DIAMETERS.
      1) **SET-HIGH STRENGTH EPOXY AS MANUFACTURED BY SIMPSON STRONGTIE, ICC-ES ESR1772**
      2) **HIT HY-200 AS MANUFACTURED BY HILTI, INC., ICC-ES ESR 3693.**
4. ADHESIVE ANCHORS INTO EXISTING UNGROUTED MASONRY CELLS:
   USE HILTI 1/2" DIAMETER HIT-A THREADED ROD, **HIT-HY150 ADHESIVE, AND HILTI HIT-S-16/2 SCREEN**. INSTALL ANCHORS INTO FACE SHELL OF EXISTING UNGROUTED MASONRY. LOCATION AND SPACING AS INDICATED IN STRUCTURAL DRAWINGS. INSTALL ANCHORS PER MANUFACTURERS INSTRUCTIONS.
5. EXPANSION ANCHORS: INSTALLATION SHALL BE IN ACCORDANCE WITH PRODUCT ICC REPORT. THE FOLLOWING ANCHORS ARE APPROVED:
   A. CONCRETE: DIAMETER AS NOTED IN DETAILS. MINIMUM EMBEDMENT = 8 DIAMETERS.
      1) **STRONG-BOLT AS MANUFACTURED BY SIMPSON STRONG-TIE, ICC-ES ESR 1771.**
      2) **KWIK BOLT TZ AS MANUFACTURED BY HILTI INC., ICC-ES ESR 1917**
      3) **TRUBOLT+ AS MANUFACTURED BY ITW-RAMSWTREDHEAD, ICC-ES ESR 2427**
   B. SOLID GROUTED MASONRY: DIAMETER AS NOTED IN DETAILS. MINIMUM EMBEDMENT = 8 DIAMETERS.
      1) **KWIK BOLT 3 AS MANUFACTURED BY HILTI INC, ICC ESR 1385**
      2) **SIMPSON STRONGTIE WEDGE ALL, ICC ESR 1396**
6. SCREW ANCHORS: INSTALLATION SHALL BE IN ACCORDANCE WITH CURRENT PRODUCT ICC REPORT. DIAMETER AS NOTED IN DETAILS. MINIMUM EMBEDMENT = 8 DIAMETERS UNLESS NOTED OTHERWISE.
   1) **TITEN HD ANCHOR AS MANUFACTURED BY SIMPSON STRONGTIE, ICC-ES ESR-2713**.
7. WHERE ANCHORS ARE INSTALLED IN CONTACT WITH WOOD FRAMING AN OVERSIZE WASHER IS REQUIRED IN ORDER TO ACHIEVE TORQUE REQUIRED BY THE ICC REPORT. THE WASHER SHALL BE OF SUFFICIENT SIZE TO PREVENT NOTICEABLE DEFORMATION OF WOOD FIBERS ON FACE OF MEMBER DUE TO TIGHTENING OF NUT. USE MINIMUM WASHER SIZE 1/4"X3" SQUARE. VERIFY REQUIRED WASHER SIZE PRIOR TO INSTALLATION.
8. POWDER ACTUATED FASTENERS (PAF): INSTALLATION SHALL BE IN ACCORDANCE WITH PRODUCT ICC REPORT. APPROVED ARE MANUFACTURED BY **HILTI --- ICC-ER ESR 1663, RAMSET-- ICC- ER ESR 1799 AND SIMPSON --- ICC-ER ESR 2138.** ANCHOR TYPE TO BE SELECTED PER MAUNFACTURERS PUBLISHED INSTRUCTIONS.
   A. WOOD OR LIGHT GAGE STEEL TO STEEL CONNECTIONS: 0.145" DIAMETER, MAXIMUM SPACING = 24". REFER TO MANUFACTURE'S SPECIFICATIONS AND ICC REPORT FOR PROPER FASTENER EMBEDMENT INTO STEEL.
   B. WOOD OR LIGHT GAGE STEEL TO CONCRETE CONNECTIONS: 0.145" DIAMETER, MAXIMUM SPACING = 24", CONCRETE EMBEDMENT = 1 1/2".

STRUCTURAL DRAWING INDEX

ISSUED FOR:					DRAWING LIST	

XIV. TESTING AND INSPECTION

1. SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1701 OF CBC AND DSA 103 FORM REQUIRED FOR BUT NOT LIMITED TO:

   A. FOOTING EXCAVATIONS AND COMPACTION - PERIODIC
   B. PLACEMENT OF CONCRETE - CONTINUOUS
   C. PLACEMENT OF REINFORCING STEEL - PERIODIC
   D. ANCHOR BOLTS SET IN CONCRETE - PERIODIC
   E. CONCRETE / GROUT STRENGTH TESTING - CONTINUOUS
   F. EPOXY ANCHOR, EPOXY DOWEL AND EXPANSION ANCHOR - CONTINUOUS
   G. STRUCTURAL WELDING (SHOP AND FIELD) - CONTINUOUS AT COMPLETE, PARTIAL, AND FILLET WELDS > 5/16", OTHERWISE PERIODIC
   H. SHEAR CONNECTOR (WELD STUD) - PERIODIC
   I. HIGH STRENGTH BOLTING - PERIODIC, CONTINUOUS DURING SC TENSIONING
   J. SPRAYED FIRE-PROOFING APPLICATION - PERIODIC
   K. DIAPHRAGM AND SHEARWALL NAILING - PERIODIC

2. THE FOLLOWING ADDITIONAL SYSTEMS AND COMPONENTS IN STRUCTURES ARE SUBJECT TO PERIODIC SPECIAL INSPECTIONS:

   A. ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER SYSTEMS
   B. EXTERIOR WALL PANELS AND THEIR ANCHORAGE.
   C. SUSPENDED CEILING SYSTEMS AND THEIR ANCHORAGE
   D. ACCESS FLOORS AND THEIR ANCHORAGE
   E. STEEL STORAGE RACKS AND THEIR ANCHORAGE, WHERE THE IMPORTANCE FACTOR IS EQUAL TO 1.5 IN ACCORDANCE WITH SECTION 15.5.3 OF ASCE 7.

3. 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 OFRESPONSIBILITY 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 THE FOLLOWING:

   A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS
   B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
   C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
   D. IDENTIFICATION AND QUALIFICATION OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITIONS(S) IN THE ORGANIZATION.

VIII. STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL TO BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS.
2. ALL WELDING SHALL CONFORM TO CURRENT AMERICAN WELDING SOCIETY STANDARDS AND TO BE PERFORMED BY CERTIFIED WELDERS.
3. ALL WELDING ELECTRODES SHALL BE E70XX, UNLESS OTHERWISE NOTED.
4. STEEL GRADES:
   A. PLATES, SHAPES AND RODS: ASTM A 36.
   B. W SHAPES: ASTM A 992.
   C. HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A 500, GRADE B.
   D. PIPE: ASTM A 53, GRADE B.
   E. BOLTS: ASTM A 325N FOR STEEL TO STEEL CONNECTIONS., A325 SC @ COLLECTOR CONNECTIONS.
   F. ANCHOR BOLTS: ASTM F 1554, GRADE 36, UNO ON PLANS.
   ANCHOR BOLTS SHALL HAVE STANDARD BOLT HEAD EXCEPT AS NOTED

DIAMETER	REQUIRED EMBEDMENT FROM CONCRETE FACE: LEDGER, ETC	SILL	PLATES & COLUMN TOPS
1/2"	4"	6"	
5/8"	5"	7"	
3/4"	5"	7"	
7/8"	6"	8"	
1"	7"	9"	

   G. BASE PLATES: ASTM A 36.
   H. FRAME BASE PLATES: ASTM A 572, GRADE 50.
   I. FRAME JOINT CONTINUNITY GUSSET PLATES AND DOUBLER PLATES: ASTM A572, GRADE 50.
5. HEADED STUD ANCHORS (HSA) / WELDED STUDS (WS): ASTM A108. USE NELSON SHEAR CONNECTORS AS MANUFACTURED BY THE NELSON DIVISION OF TRW, INC. AND WELDED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND PROCEDURES. REFER TO DETAILS FOR STUD DIAMETER AND LENGTH.
6. DEFORMED BAR ANCHORS (DBA): ASTM A496. USE NELSON DEFORMED BAR ANCHORS AS MANUFACTURED BY THE NELSON DIVISION OF TRW, INC. AND WELDED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND PROCEDURES. REFER TO DETAILS FOR BAR DIAMETER AND LENGTH.
7. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION, UNLESS OTHERWISE NOTED. ALL FILLET WELDS SHALL BE PER AISC. MINIMUM SIZES ARE BASED ON THICKNESS OF MATERIALS JOINED UNLESS OTHERWISE NOTED.
8. BOLT HOLES SHALL BE NO MORE THAN 1/16" OVERSIZE, UNLESS OTHERWISE NOTED. WHERE OVERSIZED HOLE IS REQUIRED
   AT BASE PLATES, PROVIDE 5/16"x3"x3" PLATEWASHER WELDED TO THE BASE PLATE, WITH 1/4" FILLET WELD x 2 1/2" ON THREE SIDES.
9. ALL STEEL EXPOSED AT EXTERIOR LOCATIONS SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
10. BEAMS SHALL BE CAMBERED AS NOTED ON DRAWINGS. CAMBER SHALL APPROXIMATE A CIRCULAR ARC. CAMBER ACCOMPLISHED BY INSTALLING A SINGLE KINK AT MID SPAN OF BEAMS IS NOT ACCEPTABLE.
11. GAS CUTTING TORCHES SHALL NOT BE USED TO CORRECT FABRICATION ERRORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
12. NON-SHRINK GROUT IS REQUIRED UNDER ALL BASE PLATES. GROUT SHALL COMPLY WITH ASTM C 1107 GRADE A AND ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS.
13. ALL DETAILS ARE TYPICAL. FOR CONDITIONS NOT SPECIFICALLY SHOWN, CONTRACTOR SHALL APPLY SIMILAR CONCEPT OR INTENT TO DETAIL THOSE CONDITIONS AND SUBMIT FOR REVIEW AND APPROVAL.
14. STEEL MEMBERS CONNECTING TO OR SUPPORTING WOOD FRAMING SHALL HAVE 1/2" DIAMETER THREADED STUDS AT 24" O.C. TYPICAL U.N.O.

WOOD LEGEND

INDICATES WOOD POST. SEE PLAN FOR SIZE.

XX'-XX" — INDICATES TOP OF ROOF DECK ELEVATION

INDICATES PLYWOOD/SHEATHING

INDICATES FRAMING EXTENTS

INDICATES BLOCKING

CONCRETE/ FOUNDATION LEGEND

INDICATES STEP IN SLAB/FRAMING.

ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
ADDM	ADDENDUM
ALT	ALTERNATE
ALUM	ALUMINUM
AN	ANCHOR
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AVG	AVERAGE
B	BOTTOM (REINF)
BF	BRACED FRAME
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BO	BOTTOM OF
BOC	BOTTOM OF CONCRETE
BOD	BOTTOM OF DECK
BOF	BOTTOM OF FRAMING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BTWN	BETWEEN
BZ	BOUNDARY ZONE
CBC	CALIFORNIA BUILDING CODE
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
COORD	COORDINATE
CP	COMPLETE PENETRATION
CSJ	CONSTRUCTION JOINT
CSK	COUNTER SINK
CTR	CENTER
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEMO	DEMOLISH
DF-L	DOUGLAS FIR / LARCH
D, DIAM	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DJ	DOUBLE JOIST
DL	DEAD LOAD
DN	DOWN
DO	DITTO (SAME)
DP	DEEP
DTL	DETAIL
DWG	DRAWING
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EN	EDGE NAILING
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
(E), EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FIN	FINISH
FLR	FLOOR (ING)
FO	FACE OF
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOSH	FACE OF SHEATHING
FOS	FACE OF STUD
FOFW	FACE OF FOUNDATION WALL
FOW	FACE OF WALL
FT	FEET
FS	FAR SIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GL	GLU-LAM
GYP	GYPSUM
GWB	GYPSUM WALL BOARD
HD	HOLD DOWN
HDG	HOT-DIP GALVANIZED
HDR	HEADER
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLTS
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
HVAC	HEATING VENTILATING & AC
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCHES
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JT	JOINT

K	KIP(S), 1000 POUNDS
LBS	POUNDS
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC(S)	LOCATION(S)
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
LV	LENGTH VARIES
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR/MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MS	METAL STUD
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT & NOT PART OF THE APPLICATION
No	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
(N)	NEW
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENERS
PJ	PANEL JOINT
PL	PLATE
PLWD	PLYWOOD
PNL	PANEL
PP	PARTIAL PENETRATION
PSF	POUNDS PER SQUARE FOOT
PSL	PARALLEL STRAND LUMBER
PT	POST TENSIONED/ PRESSURE TREATED
R, RAD	RADIUS
REF	REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
RH	RIGHT HAND
RO	ROUGH OPENING
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SCH	SCHEDULE
SCL	STRUCTURAL COMPOSITE LUMBER
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	SNOW LOAD
SMD	SEE MECHANICAL DRAWINGS
SOG	SLAB ON GRADE
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STGD	STAGGERED
STL	STEEL
STIFF	STIFFENER
STRUCT	STRUCTURAL
SYMM	SYMMETRICAL
T	TOP (REINF)
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERATURE
THK	THICK (NESS)
TN	TOE NAIL
TO	TOP OF
TOC	TOP OF CONCRETE
TOD	TOP OF DECK (ING)
TOF	TOP OF FRAMING FOOTING
TOM	TOP OF MASONRY
TOPL	TOP OF PLATE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TSA	THREADED STUD ANCHOR
TS6	TAPERED GIRDER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WORK POINT
WS	WELDED STUD
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD
#	POUND, SCREW SIZE, REBAR SIZE

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DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL
703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date
		09-18-2018

Sheet Name

GENERAL NOTES AND ABBREV.

	40410.08
Date	05/31/18
Drawn by	A.L.
Checked by	F.G.

Sheet Number

S-101

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1 FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. SEE SHEET S-100 & S-101 FOR STRUCTURAL NOTES & SYMBOL LEGEND
   SEE SHEET S-400 SERIES FOR TYPICAL CONCRETE DETAILS.
   SEE SHEET S-500 SERIES FOR TYPICAL STEEL DETAILS.
   SEE SHEET S-600 SERIES FOR TYPICAL WOOD DETAILS.
2. TOP OF SLAB ON GRADE = 0'-0" UNO
3. TOP OF FOOTING SHALL BE FLUSH WITH THE EXISTING SLAB, U.N.O.
4. S.A.D. FOR DIMENSIONS, ELEVATIONS, SLOPES, CURBS, STEPS, AND PADS NOTED ON PLAN.
5. COORDINATE LOCATION OF SLAB STEPS AND DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
6. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE PROJECT INSPECTOR PRIOR TO PLACEMENT OF REINFORCING STEEL.
8. THE PROJECT INSPECTOR SHALL ADVISE DSA IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE LATEST EDITION OF THE CBC.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE CBC

LEGEND

- (E) WALL
- (E) WALL & (E) FTG
- (N) WALL
- (N) WALL & (N) FTG.
- (N) INFILL PER 12/S-600
- (N) OPENING PER 4/S-600A U.N.O.
- (E) SHEAR WALL
- (N) SHEAR WALL
- P1 — 6x6, No.1 D.FIR/ LARCH
- INDICATES EXIST. / NEW WOOD POST
- INDICATES EXIST./ NEW STEEL PIPE COL.
- INDICATES COLUMN/ POST UP OR DOWN
- (N) CONCRETE SLAB & (N) FTG
- (N) CONCRETE CURB PER 4/S-400 U.N.O.
- (E) CONCRETE CURB

KEY PLAN
NTS

NORTH

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FOUNDATION PLAN

	40410.08
Date	05/31/18
Drawn by	A.L.
Checked by	F.G.

Sheet Number

S-201

1 ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES:

1. SEE SHEET S-100 & S-101 FOR STRUCTURAL NOTES & SYMBOL LEGEND.
   SEE SHEET S-400 SERIES FOR TYPICAL CONCRETE DETAILS.
   SEE SHEET S-500 SERIES FOR TYPICAL STEEL DETAILS.
   SEE SHEET S-600 SERIES FOR TYPICAL WOOD DETAILS.
2. TOP OF SHEATHING VARIES. SEE ARCHITECTURAL DRAWINGS FOR ROOF EXTENTS AND ELEVATIONS. (GROUND FLOOR REFERENCE ELEV = 0'-0")
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN. COORDINATE ALL POST-COLUMN BASED ON ARCHITECTURAL DRAWINGS UNLESS OTHERWISE NOTED.
4. DIMENSIONS AND GRIDS TO FACE OR CENTERLINE OF STUDS, UNO.
5. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
6. ALL WOOD EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED, UNO.
7. EXISTING ROOF SHEATHING TO REMAIN.
8. SEE DETAIL 4/S-600 FOR TYPICAL FRAMING AT ROOF OPENINGS, UNO.
9. ALL HARDWARE TO BE "SIMPSON STRONG-TIE" PRODUCT OR APPROVED EQUIVALENT. ICC ESR-2105.
10. HDR DENOTES HEADER OVER OPENING. SEE 4/S-600A.

LEGEND

- (E) WALL BELOW
- (N)WALL BELOW
- (E) — INDICATES EXISTING BEAM
- (E) — INDICATES EXISTING ROOF JOIST (R.J.)
- INDICATES NEW BEAM
- INDICATES NEW ROOF JOIST (R.J.) OR CEILING JOIST (C.J.)
- INDICATES COLUMN/ POST UP OR DOWN
- INDICATES EXIST. / NEW WOOD POST BELOW
- INDICATES EXIST. / NEW PIPE COL. BELOW
- INDICATES (E) SHEAR WALL BELOW
- INDICATES (N) SHEAR WALL BELOW

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		09-18-2018

Sheet Name

ROOF FRAMING PLAN

	40410.08
Date	05/31/18
Drawn by	A.L.
Checked by	F.G.

Sheet Number

S-202

12 SECTION AT EXTERIOR WALL
1" = 1'-0"

9 SECTION AT EXTERIOR WALL
1" = 1'-0"

6 SLAB ON GRADE DETAIL
NTS

3 NEW SLAB ON GRADE TO EXISITNG
3/4" = 1'-0"

8 CONCRETE CURBS
3/4" = 1'-0"

5 CONT. FTG. AT (N) SHEAR WALL
NTS

2 CONCRETE STEM WALL
AT EXTERIOR WALL INFILL
1" = 1'-0"

NOTES:
1. SOME HOLDDOWNS ARE DRAWN AS HD STYLE, BUT VARY BETWEEN HD AND HDU.
2. SEE 10/S600 FOR TYP SHEARWALL CONSTRUCTION DETAIL AND SEE PLANS FOR HOLDOWN LOCATIONS.
3. GYPCRETE (WHERE EXISTS) IS NOT SHOWN FOR CLARITY. DOUBLE BOTTOM PLATE MAY BE REQUIRED - SEE ARCH
4. SEE DETAIL 5/S-400 FOR INFO NOT SHOWN.
5. DEEPEN FTG TO PROVIDE 3" CLR MIN AS REQUIRED.

10 TYP. WOOD HOLDOWN DETAILS
AT (N) FTG
3/4" = 1'-0"

4 CONCRETE CURBS
3/4" = 1'-0"

1 SECTION AT (N) STEEL COLUMN
1" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Description	Date
		09-18-2018

Sheet Name
TYPICAL FOUNDATION DETAILS

	40410.08
Date	05/31/18
Drawn by	A.L.
Checked by	F.G.

Sheet Number
S-400

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GROUTED ANCHORS IN CONCRETE

ROD SIZE	ASTM MATERIAL STANDARD	MIN EMBED (IN) U.N.O.	MIN CONCRETE THICKNESS (IN)	REMARKS
1/2"	A36/A307	2-3/4	2-1/2	
5/8"	A36/A307	3-1/8	3-1/8	
3/4"	A36/A307	3-1/2	3-3/4	
7/8"	A36/A307	3-3/4	4-3/8	
1"	A36/A307	4	5	
#4	A615/A706	2-3/4	2-1/2	
#5	A615/A706	3-1/8	3-1/8	
#6	A615/A706	3-1/2	3-3/4	
#7	A615/A706	3-3/4	4-3/8	
#8	A615/A706	4	5	
#10	A615/A706	5	18	

NOTES:

1. INSTALL IN STRICT CONFORMANCE WITH MANUFACTURERS RECOMMENDATIONS.
   GROUTED EPOXY ANCHORS SHALL BE:
   (A) SIMPSON SET-XP EPOXY-TIE, MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. (ICC ESR 2508)

   ALTERNATE:
   (B) HILTI RE-500, MANUFACTURED BY HILTI, INC, (ICBO REPORT No ER-2322)

2. SPECIAL INSPECTION SHALL BE PROVIDED FOR ANCHOR INSTALLATION.

11 GROUTED ANCHORS EMBED SCHEDULE IN CONCRETE

NTS

180° HOOK 90° HOOK

MINIMUM TENSION EMBEDMENT LENGTHS, (ldh), FOR STANDARD END HOOKS ON GRADE 60 BARS

GENERAL USE (NON-SEISMIC)

BAR SIZE	NORMAL WEIGHT CONCRETE, f'c (psi)					
	3,000	4,000	5,000	6,000	7,000	8,000
#3	6"	6"	6"	6"	6"	6"
#4	8"	7"	6"	6"	6"	6"
#5	10"	9"	8"	7"	7"	6"
#6	12"	10"	9"	8"	8"	7"
#7	14"	12"	11"	10"	9"	9"
#8	16"	14"	12"	11"	10"	10"
#9	18"	15"	14"	13"	12"	11"
#10	20"	17"	15"	14"	13"	12"
#11	22"	19"	17"	16"	14"	14"
#14	37"	32"	29"	27"	25"	23"
#18	50"	43"	39"	35"	33"	31"

NOTES:
1. SIDE COVER ≥2 1/2 INCHES.
2. END COVER (90° HOOKS) ≥ 2 INCHES.
3. FOR SIDE COVER < 2 1/2 INCHES AND END COVER < 2 INCHES, MULTIPLY THE TABULATED VALUES BY 1.43.
4. FOR LIGHT WEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.
5. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY 1.2

8 EMBEDMENT LENGTHS FOR HOOKED BARS

NTS

90° HOOK
TIE OR STIRRUP

TIES AND STIRRUPS ONLY:
#3 : D = 1 1/2"
#4 : D = 2"
#5 : D = 2 1/2"
#6 : D = 4 1/2"

TIE LAP AT FRAME COL. AND GIRDERS

135° HOOK
TIE OR STIRRUP

135° HOOK
SEISMIC STIRRUP / TIE

D = 6d FOR #3 THRU #8
D = 8d FOR #9 THRU #11
D = 10d FOR #14 THRU #18

90° HOOK

180° HOOK

MAX OFFSET BEND
PRINCIPAL REINFORCING

NOTES:
1. ALL BENDS SHALL BE MADE COLD.
2. #14 AND #18 BARS SHALL BE BEND-TESTED AND APPROVED PRIOR TO BENDING.

10 STANDARD HOOK AND TIE DETAILS

NTS

CASE 1

REINFORCING BAR SPLICE AND STRAIGHT DEVELOPMENT LENGTHS SCHEDULE

(SEE NOTES BELOW) (NORMAL WEIGHT CONCRETE)

TENSION SPLICE	f'c PSI	BAR SIZE GRADE 60	#3	#4	#5	#6	#7	#8	#9	#10	#11
CLASS A & STRAIGHT DEVELOPMENT LENGTHS, Ld (IN)	3000	TOP	22"	29"	36"	43"	63"	72"	81"	91"	101"
		OTHER	17"	22"	28"	33"	48"	55"	62"	70"	78"
	4000	TOP	19"	25"	31"	37"	54"	62"	70"	79"	87"
		OTHER	15"	19"	24"	29"	42"	48"	54"	61"	67"
	5000	TOP	17"	22"	28"	33"	49"	55"	63"	70"	78"
		OTHER	13"	17"	22"	26"	37"	43"	48"	54"	60"
	≥6000	TOP	15"	20"	25"	30"	44"	50"	57"	64"	71"
		OTHER	12"	16"	20"	23"	34"	39"	44"	49"	55"
CLASS B	3000	TOP	28"	37"	47"	56"	81"	93"	105"	118"	131"
		OTHER	22"	29"	36"	43"	63"	72"	81"	91"	101"
	4000	TOP	24"	32"	40"	48"	70"	80"	91"	102"	113"
		OTHER	19"	25"	31"	37"	54"	62"	70"	79"	87"
	5000	TOP	22"	29"	36"	43"	63"	72"	81"	91"	101"
		OTHER	17"	22"	28"	33"	49"	55"	63"	70"	78"
	≥6000	TOP	20"	26"	33"	40"	58"	66"	74"	83"	93"
		OTHER	15"	20"	25"	30"	44"	51"	57"	64"	71"

CASE 2

REINFORCING BAR SPLICE AND STRAIGHT DEVELOPMENT LENGTHS SCHEDULE

(SEE NOTES BELOW) (NORMAL WEIGHT CONCRETE)

TENSION SPLICE	f'c PSI	BAR SIZE GRADE 60	#3	#4	#5	#6	#7	#8	#9	#10	#11
CLASS A & STRAIGHT DEVELOPMENT LENGTHS, Ld (IN)	3000	TOP	32"	43"	54"	64"	94"	107"	121"	136"	151"
		OTHER	25"	33"	41"	50"	72"	82"	93"	105"	116"
	4000	TOP	28"	37"	47"	56"	81"	93"	105"	118"	131"
		OTHER	22"	29"	36"	43"	63"	71"	81"	91"	101"
	5000	TOP	25"	33"	42"	50"	73"	83"	94"	105"	117"
		OTHER	19"	26"	32"	38"	56"	64"	72"	81"	90"
	≥6000	TOP	23"	30"	38"	46"	66"	76"	85"	96"	107"
		OTHER	18"	23"	29"	35"	51"	58"	66"	74"	82"
CLASS B	3000	TOP	42"	56"	70"	84"	122"	139"	157"	177"	195"
		OTHER	32"	43"	54"	64"	94"	107"	121"	136"	151"
	4000	TOP	36"	48"	60"	72"	106"	121"	136"	153"	170"
		OTHER	28"	37"	47"	56"	81"	93"	105"	118"	131"
	5000	TOP	33"	43"	54"	65"	94"	108"	122"	137"	152"
		OTHER	25"	33"	42"	50"	73"	83"	94"	105"	117"
	≥6000	TOP	30"	40"	49"	59"	86"	98"	111"	125"	139"
		OTHER	23"	30"	38"	46"	66"	76"	85"	96"	107"

NOTES:

1. TABULATED VALUES ARE BASED ON ACI 318-05 CHAPTER 12, GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
2. CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CENTER-TO-CENTER SPACING OF THE BARS, ARE DEFINED AS:

   BEAMS AND COLUMNS: CASE 1: CONCRETE COVER ≥ 1.0 db AND CTR-CTR SPACING ≥ 2.0 db AND WITH STIRRUPS OR TIES THROUGHOUT Ld NOT LESS THAN THE CODE MINIMUM.

   CASE 2: CONCRETE COVER < 1.0 db AND CTR-CTR SPACING < 2.0 db.

   ALL OTHER ELEMENTS: CASE 1: CONCRETE COVER ≥ 1.0 db AND CTR-CTR SPACING ≥ 3.0 db.

   CASE 2: CONCRETE COVER < 1.0 db AND CTR-CTR SPACING < 3.0 db.
3. LAP SPLICES OF DEFORMED BARS AND DEFORMED WIRE IN TENSION SHALL BE CLASS B SPLICES EXCEPT THAT CLASS A SPLICES ARE ALLOWED WHEN ONE-HALF OR LESS OF THE TOTAL REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.
4. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.
5. FOR EPOXY-COATED BARS, MULTIPLY THE TABULATED VALUES BY ONE OF THE FOLLOWING FACTORS:

CONCRETE COVER AND SPACING	TOP BARS	OTHER BARS
COVER < 3.0 db OR CTR-CTR SPACING < 7.0 db	1.50	1.50
COVER ≥ 3.0 db OR CTR-CTR SPACING ≥ 7.0 db	1.20	1.20

6. db = NOMINAL DIAMETER OF A BAR.
7. TOP BARS ARE HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
8. OTHER BARS ARE ALL VERTICAL REINFORCING, ALL HORIZONTAL WALL REINFORCING, AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF CONCRETE BELOW BAR.
9. SMALLER BAR LAP LENGTH MAY BE USED WHEN SPLICING DIFFERENT SIZE BARS.
10. LAP SPLICES ARE NOT PERMITTED IF MECHANICAL SPLICES ARE SHOWN.
11. NON-CONTACT LAP SPLICED BARS SHALL NOT BE SPACED TRANSVERSELY FUTHER APART THAN ONE -FIFTH OF THE REQUIRED LAP SPLICE LENGTH NOR 6 INCHES.
12. LAP TOP BARS AT MIDSPAN AND BOTTOM BARS AT SUPPORTS UNLESS OTHERWISE SHOWN.
13. BUNDLED BAR SPLICES:
    A. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL NOT OVERLAP EACH OTHER.
    B. INCREASE LAP LENGTH 20% AT THREE BARS. INCREASE LAP LENGTH 33% AT FOUR BARS.

4 REINFORCING BAR SPLICE SCHEDULE AND NOTES (GRADE 60)

NTS

BEAM COLUMN

*1 1/2" OR WIRED IN CONTACT

A BOUNDARY, COLUMN AND BEAM REINFORCING SPLICE DETAIL

B WALL OR SLAB REINFORCING SPLICE DETAIL

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REGISTERED PROFESSIONAL ENGINEER CRAIG M. CHAMBERLAIN No. 4588 Exp. 06-30-19 STRUCTURAL STATE OF CALIFORNIA

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APP03 118467
AC ___ FLS ___ SS MK
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL
703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date
		09-18-2018

Sheet Name

TYPICAL CONCRETE DETAILS

	40410.08
Date	05/31/18
Drawn by	A.L.
Checked by	F.G.

Sheet Number

S-401

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3 (N)FTG TO (E) FTG DETAIL

1 1/2" = 1'-0"

PLAN

ELEVATION

1 PIPE COL. BASE PLATE DETAILS

NTS

ANCHOR ROD SCHEDULE						
ANCHOR ROD DIAMETER	BASE PL HOLE DIA "D"	MIN WASHER SIZE	MIN WASHER t	MIN PROJ ABOVE BASE PL	NOMINAL GROUT THICKNESS	REMARKS
3/4"	1 5/16"	2-1/2"	1/4"	3"	1 1/2"	SEE 1/S-500 FOR POST-INSTALLED CONDTION

NOTES:

1. SEE TYPICAL ANCHOR ROD AND BASE PLATE DETAILS
2. WHERE WELD 'A' IS NOT SHOWN, TACK-WELD AS REQUIRED FOR ERECTION

7 TYPICAL ANCHOR ROD DETAIL

3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Description	Date
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TYPICAL STEEL DETAILS

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12 IN-FILL OF (E) OPENINGS IN NON-SHEAR WALLS

1/2" = 1'-0"

HOLDOWN SCHEDULE							
HD MARK (SEE PLAN)	ALLOWABLE CAPACITY (LBS)	SIMPSON HD's (ESR-2330 / ER-143)					
		ANCHOR SIZE	ANCHOR TYPE	EMBED INFO @ FTG	TYP POST SIZE (U.N.O.)	FASTENING	REMARKS
~~HDU14~~	~~11556#~~	~~1" DIA~~	~~A36 ROD~~	~~le=18"~~	~~6x6~~	~~36 SDS1/4 X 2 1/2" SCREWS~~	
HD19	13388#	1 1/8" DIA	A36 ROD	le=18"	6x6	(5) 1"Ø M.B.	

HOLDOWN SCHEDULE NOTES:

1. TYPICAL POST SIZE AS SHOWN ON SCHEDULE UNO ON PLAN. ALL POSTS TO BE DF-L #1.
2. ADDITIONAL REBAR NOT REQUIRED AT HOLDOWNS AT SLAB EDGES UNO ON PLAN.
3. MOISTURE CONTENT OF 19% OR LESS REQUIRED FOR ALL WOOD FRAMING PRIOR TO TIGHTENING OF ALL HOLDOWN ANCHOR RODS.
4. REFER TO 5/S-400 FOR ANCHOR PLACEMENT AND EMBEDMENT.

6 TYP HOLDOWN SCHEDULE

3/4" = 1'-0"

ELEVATION - STUD WALL TOP PLATE SPLICES

NOTES:
1. APPLY DETAIL TO WOOD PLATES OF ALL STRUCTURAL STUD WALLS.
2. BEFORE PLACING BOLTS, CHECK LOCATIONS OF ALL POST, MULLIONS, STUDS, ETC. TO INSURE THAT SUCH WILL NOT FALL AT BOLT LOCATION.
3. 3x SILL IS REQUIRED AT SHEAR WALL. USE 2x SILL ELSEWHERE AT CONTRACTOR'S OPTION.

11 TOP AND BOTTOM PLATES OF STUD WALL

3/4" = 1'-0"

5 INFILL OF (E) OPENING IN DIAPHRAGM

1" = 1'-0"

SEE TYPICAL STUD WALL DETAIL FOR INFORMATION NOT NOTED. OPENINGS DO NOT APPLY TO WINDOW OR DOOR OPENINGS UNLESS SPECIFICALLY NOTED ON PLAN OR DETAILS.

10 TYP WOOD SHEARWALL ELEVATION

3/4" = 1'-0"

4 TYPICAL SMALL OPENING AT PLYWOOD DIAPHRAGM

3/4" = 1'-0"

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No.	Description	Date
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TYPICAL WOOD DETAILS

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BEARING WALL

NON-BEARING WALL
(INTERIOR WALL)

NOTES:
1. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECION OF STUD AS A CUT OR NOTCH.
2. APPROVED STUD SHOES MAY BE USED WHEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS

12 LIMITS ON NOTCH AND BORING IN STUDS
3/4" = 1'-0"

DOUBLE TOP PLATE

9 LIMITS ON NOTCH AND BORING IN TOP PLATES
3/4" = 1'-0"

PERPENDICULAR TO JOISTS

PARALLEL TO JOISTS OR TRUSS

6 NON BRG WALL CONNECTION (GAP)
NTS

B CURB CONDITION

A NO CURB CONDITION

3 INT (NON-BEARING) WALL TO CONC. SLAB CONN. DETAIL
NTS

11 SHEAR WALL INTERSECTION PLAN
1" = 1'-0"

SHEAR WALL SCHEDULE

MARK	SHEATHING (NOMINAL THK)	SIDES	PLYWOOD NAILING		3X SILL W/ 3/4"Ø SILL PLATE ANCHOR (1157# / BOLT)	TRANSFER CLIPS: A35 OR LTP4) (445# EA)	CAPACITY	REMARKS
			EDGE (EN)	FIELD (FN)				
3A	1/2" STRUCT 1	TWO	10d@3"oc	10d@12"oc	@16"oc	2X@6"oc	1330 PLF	SEE NOTE 3 3X BLKG OR DBL BLOCK 3X SILL @ CONC FOR WALL W/ DOUBLE SIDED SHEATHING, USE 2X No OF FASTENERS

NOTES:

1. APA RATED, STRUCTURAL I SHEATHING, 15/32 MIN, EXPOSURE 1.
2. ALL NAILS SHALL BE COMMON WIRE NAILS WITH 1 1/4" MIN PENETRATION INTO FRAMING.
3. FOR TRANSER NAILING PREDRILL HOLES FOR NAILS WHERE NIALS TEND TO SPLIT WOOD.
4. PROVIDE 3x STUDS OR 3x BLKG AT ADJOINING PANEL EDGES WHERE NAILS ARE SPACED 4" OR LESS. (ALT USE TWO 2x STUDS OR BLKG FASTENED TOGETHER W/ 16d NAILS SPACED AT REQUIRED EDGE NAILING OF SUBJECT SHEARWALL).
5. SEE GENERAL NOTE SHEET FOR PLYWOOD INFORMATION.
6. PROVIDE BLOCKING IN SHEAR WALL PER TYPICAL SHEARWALL ELEVATION DETAIL.
7. STAGGER VERTICAL JOINTS IN PLYWOOD SHEETS WHERE SHEAR WALLS ARE SHEATHED ON BOTH SIDES.
8. USE EXTERIOR GRADE PLYWOOD TYPICAL.
9. WHERE ROOF JOISTS ARE PERPENDICULAR TO SHEAR WALL, PROVIDE SIMPSON HI CLIP FROM ROOF JOIST TO DBL PLATE IN ADDITION TO CLIP SHOWN ON SHEAR WALL SCHEDULE.

5 SHEAR WALL SCHEDULE
3/4" = 1'-0"

HEADER SCHEDULE

HEADER SIZE U.N.O.	"W" WIDTH OF OPENING
4X6	TO 5'-0" MAX
4X8	TO 6'-6" MAX

NOTE: ALL HEADERS SHALL BE DF.L, NO. 1

4 TYPICAL STUD WALL FRAMING ELEVATION
3/4" = 1'-0"

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		09-18-2018

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TYPICAL WOOD DETAILS

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Sheet Number

S-600A

9 ELEVATION AT INTERIOR WALL
1/2" = 1'-0"

6 EXHAUST FAN ANCHORAGE DETAIL
3/4" = 1'-0"

3 DRAG CONNECTION AT SHEAR WALL
3/4" = 1'-0"

11 ELEVATION AT "A"
1/2" = 1'-0"

2 DETAIL
1" = 1'-0"

7 ELEVATION
1/2" = 1'-0"

AT SPLICE/CONT BEAM

4 SECTION AT (N) STEEL COLUMN
NTS

A SECTION

1 DETAIL
1" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Description	Date
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SECTIONS AND DETAILS

	40410.08
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Sheet Number
S-600B

MATILIJA JHS GYMNASIUM REROOF

703 EL PASEO RD, OJAI, CA 93023

TYPICAL RMS-18 PANEL PROFILE

#3007GS GABLE CLIP
16GA GALVANIZED STEEL

"HOT MELT" SEALANT BEADS
FACTORY APPLIED

#301016GS STD. CLIP
16GA GALVANIZED STEEL

R-MER SPAN PANEL AND ACCESSORIES

SPECIAL NOTES:

R-MER SPAN PANEL NOTES:

- FOR ADDITIONAL R-MER SPAN INSTALLATION INSTRUCTIONS, CONTACT GARLAND FOR AN INSTALLATION GUIDELINES MANUAL.
- ALL PANEL CLIPS ARE TO BE FASTENED USING #12 FASTENER PER MIAMI DADE COUNTY NOA # 17-0725.07
- ROOF PANELS ARE TO BE FIELD SEAMED BY ERECTOR WITH GARLAND'S ELECTRIC SEAMER. REFERENCE INSTALLATION MANUAL AND/OR OPERATING INSTRUCTIONS PROVIDED WITH SHIMENT OF SEAMER.

Lane P. Jobe

Digitally signed by Lane P. Jobe
DN: E=lane@miller-se.com, CN=Lane P. Jobe, OU=Engineering, O="Miller Consulting Engineers, Inc.", L=Portland, S=Oregon, C=US
Date: 2018.09.25 16:49:49-07'00'

UNDERLAYMENT NOTE:

GARLAND RECOMMENDS APPLYING A MINIMUM OF (1) LAYER OF AQUA SHIELD TO ENTIRE ROOF SUBSTRATE. ALWAYS FOLLOW THE MANUFACTURER'S INSTALLATION GUIDELINES.

ENGINEER CONTACT INFO:

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MILLER CONSULTING ENGINEERS
9570 SW BARBUR BLVD., SUITE 100
PORTLAND, OR 97219-5412
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NOTE:
DRAWING REFERENCES ARE TO SHEETS "R-10_". FOR EXAMPLE SHEET 1 IS FOUND ON SHEET R-101.

GENERAL NOTES:

ATTENTION: G/C, & SUB-CONTRACTOR

THESE SHOP DRAWINGS HAVE BEEN SUBMITTED FOR GENERAL CONTRACTOR AND SUB-CONTRACTOR APPROVAL. ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN UNLESS OTHERWISE NOTED. IT IS CRUCIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED.

*APPROVAL STAMPS/SIGNATURES ATTACHED AT RIGHT.

G/C APPROVAL

SUB-CONTRACTOR APPROVAL

STORAGE NOTE:
ALWAYS STORE ALL COMPONENTS IN A CLEAN, DRY STORAGE AREA. PREVENT CONTACT WITH CORROSIVE OR STAINING MATERIALS.

MATERIAL NOTE:
SOME OIL CANNING OF PANELS IS COMMON IN THE INDUSTRY AND IS NOT CONSIDERED CAUSE FOR PRODUCT REJECTION.

IMPORTANT CUSTOMER NOTE:
PLEASE READ AND SIGN BELOW

1) ALL OF GARLAND'S SHOP FABRICATED MATERIAL WILL BE MANUFACTURED TO THE DIMENSIONS SHOWN UNLESS OTHERWISE NOTED.
2) IT IS CRUCIAL THAT ANY NECESSARY CHANGES, NOTATIONS OR REQUESTED INFORMATION BE CLEARLY NOTED ON THE SHOP DRAWINGS AND RETURNED TO GARLAND FOR REVIEW.
3) EACH DIMENSION MARKED WITH AN (*) MUST BE APPROVED FOR FABRICATION BY INDICATING THE RESPONSE "OK" OR "✓", OR BY NOTING THE CORRECT DIMENSION.
4) WHERE GARLAND SPECIFICALLY REQUESTS TO "FIELD VERIFY" OR "SPECIFY" A DIMENSION, THE PROPER CUSTOMER RESPONSE WILL BE TO:
   A) MARK WITH EITHER "OK" OR "✓" IF THE DIMENSION IS CORRECT.
   OR
   B) NOTE THE CORRECT DIMENSION.
   IT IS IMPERATIVE THAT FIELD DIMENSIONS ARE TAKEN TO INSURE ACCURATE FABRICATION AND PROPER MATERIAL FIT.
5) NO MATERIAL WILL BE CONSIDERED RELEASED FOR FABRICATION UNTIL ALL PERTINENT INFORMATION (i.e., COLOR, DIMENSIONS, MATERIAL CONFIGURATION) HAS BEEN RECEIVED BY GARLAND.

SEALANT NOTE:
USE A CONTINUOUS BEAD OF NON-HARDENING, HIGH QUALITY SEALANT COMPATIBLE WITH KYNAR AND POLYESTER FINISHES. FOR FORMED COPING, EXTENDERS, FASCIA AND WALL CAPS, APPLY SEALANT BEAD TO THE CONCEALED PORTION OF THE SPLICE PLATE.
(SEALANT BY ERECTOR)

ERECTOR NOTE:

- SAW OR TORCH CUTS OF THE ROOF PANEL ARE NOT PERMITTED. ONLY SHEARING ACTION MAY BE USED, AS ACHIEVED WITH HAND SNIPS OR ELECTRIC SHEARS
- ALL PANELS, BATTENS AND SEAMS TO HAVE FIELD BENT TRANSITIONS. (EXAMPLE: CHANGE OF PLANE)
- ALL RELATED PANEL TRIM TO HAVE FIELD TRANSITIONS AND FIELD FABRICATED MITERS.
  (EXAMPLE: TRANSITION BETWEEN RIDGE TO RAKE TRIM OR RAKE TO VERTICAL CORNER TRIM)
  (EXAMPLE: MITERS – 90° CORNERS FOR SILL TRIM)
- ALL CONTINUOUS LENGTHS OF PANEL TRIM TO BE NOTCHED, LAPPED AND SEALED 3" MINIMUM AT LAP SPLICES. (TYPICAL)
- PANEL TRIM'S THERMAL MOVEMENT OCCURS AT LAP SPLICES DO NOT ANCHOR TRIM AT LAP SPLICES. (TYPICAL)

FINISH SPECIFICATIONS:

ROOF PANEL: R-MER SPAN

MATERIAL: 24 GA GALV. STEEL Miami Dade NOA# 17-0725.07
FINISH: FLUOROCARBON-70% RESIN (Kynar 500)
COLOR: STANDARD "TBD"

SUBMITTAL

STRUCTURAL ONLY

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9-25-18
REF. MCE #170832

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ARCHITECT: RNT ARCHITECTS | DATE: 06/29/17 | DWG BY: MEC | CHK BY: MA
PM: JEFF, MORGAN | CUSTOMER: NA | AGENT: JASON MORONNOLTE

REV:	DATE:
1	DATE: 9-14-18
2	DATE: --/--/--
3	DATE: --/--/--
4	DATE: --/--/--

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OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

R-MER SPAN PANEL & ACCESSORIES

	17761.00
Date	08/23/18
Drawn by	Author
Checked by	Checker
Sheet Number	R-101

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CLIP PLACEMENT AT ZONE 1 3/8" = 1'-0" (1)

CLIP PLACEMENT AT ZONE 2 AND 3 3/8" = 1'-0" (2)

NOA #17-0725.07:
- 3 FASTENERS PER CLIP IN ZONE 1
- 2 FASTENERS PER CLIP IN ZONE 2

TRIM LAP DETAILS:
ERECTOR TO COORDINATE WITH MANUFACTURER'S DETAILS.
INSTALLATION SUPPORT TAB
*REFER TO TRIM LAP DETAILS IN THIS SECTION. (RA)

SMACNA GUIDELINES:
GARLAND RECOMMENDS FOLLOWING SMACNA GUIDELINES FOR THE SIZING AND LOCATION OF GUTTERS, DOWNSPOUTS, AND EXPANSION JOINTS.

ERECTOR NOTE:
ALL MATERIAL SUPPLIED IS 24 GA GALV. STEEL. ALL TRIM COMPONENTS ARE TO BE FABRICATED BY THE ERECTOR FROM FLAT SHEET SUPPLIED.

1/2 ROOF PLAN
ARCH. REF. : 1/A-103

DESIGN PER NOA 17-0725.07

PROVIDED BELOW ARE THE MAXIMUM ALLOWABLE ROOF PANEL CLIP SPACINGS.

ROOF PANEL CLIPS MAY BE INSTALLED CLOSER TOGETHER THAN THE ALLOWABLE O.C. MAXIMUMS IF JOB-SITE CONDITIONS REQUIRE. HOWEVER, PANEL CLIPS MUST 'NOT' EXCEED THE MANUFACTURER'S PROVIDED O.C. MAXIMUMS.

ZONE DESIGNATION:	ZONE TYPE:	DESCRIPTION:	CLIP SPACING:
	ZONE 1	(Field of Roof)	2'-6" o.c. MAX. SEE CLIP PLACEMENT AT ZONE 2, FOR RESTRICTED AREAS.
	ZONE 2	(Perimeters)	2'-0" o.c. MAX. SEE CLIP PLACEMENT AT ZONE 2 AND 3 FOR RESTRICTED AREAS.
	ZONE 3	(Corners)	2'-0" o.c. MAX. SEE CLIP PLACEMENT AT ZONE 2 AND 3 FOR RESTRICTED AREAS.

FIXED PANEL CLIP LOCATIONS:

LINE TYPE:	DESCRIPTION:	EXPLANATION:
------	PANEL FIXED LOCATION	DESIGNATES A ROW OF 'FIXED' PANEL CLIPS.

SUBSTRATE LENGTH SCHEDULE:

PROVIDED BELOW ARE ESTIMATED SUBSTRATE LENGTHS (NOT PANEL LENGTHS), AS PROVIDED TO GARLAND OR AS SCALED BY GARLAND FROM CONSTRUCTION DRAWINGS.

- THESE SUBSTRATE LENGTHS ARE PROVIDED FOR REVIEW AND MUST BE FIELD VERIFIED.
- ERECTOR MUST THEN REFERENCE THE APPROPRIATE DETAILS WITHIN THE SHOP DRAWINGS TO CALCULATE THE CORRECT ROOF PANEL LENGTHS REQUIRED. YOU MAY NOTE THESE CALCULATED PANEL LENGTHS IN THE SPACES PROVIDED BELOW.
- ERECTOR TO COORDINATE JOB SITE CONDITIONS WITH SHOP DRAWING DETAILS TO DETERMINE REQUIRED PANEL QUANTITIES AND LENGTHS. THIS ITEMIZED CUT IS TO BE FORWARDED TO GARLAND FOR MATERIAL RELEASE AND PRODUCTION.

DO NOT USE THE SUBSTRATE LENGTHS AS THE PANEL LENGTHS!

SUBSTRATE DESIGNATION:	SUBSTRATE LENGTH:	CALCULATE: REQUIRED PANEL LENGTHS:
S-1	88'-8 1/16"	=
S-2	18'-11"	=
S-3	11'-2 15/16"	=
	---	=
	---	=
	---	=
	---	=
	---	=

NOTE: Use the shop drawing details to adjust the substrate length dimension to the panel length required.

IMPORTANT READ:
THE ERECTOR HAS THE SOLE RESPONSIBILITY TO COORDINATE THE SHOP DRAWINGS WITH THE ACTUAL JOB SITE CONDITIONS TO DETERMINE AN ACCURATE AND ITEMIZED MATERIAL 'CUT LIST'. THIS IS CRUCIAL FOR MATERIAL RELEASE AND PANEL PRODUCTION.

DOWNSPOUT PROFILES:
*REFER TO SECTION (RA) FOR DOWNSPOUT & STRAP DATA.

PROFILE DS-1
NUMBER OF CONDITIONS:04

ALL ROOF DIMENSIONS MUST BE FIELD VERIFIED

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CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name
ROOF PLAN

	17761.00
Date	08/23/18
Drawn by	Author
Checked by	Checker

Sheet Number
R-102

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ERECTOR NOTE: FIXED PANEL INSTALLATION METHOD

- TYPICALLY, PANELS ARE 'FIXED' ALONG THE RIDGE/HIP/HEAD CONDITIONS AND PANEL THERMAL MOVEMENT IS DIRECTED TOWARD THE EAVE/SILL/VALLEY CONDITIONS.
- FIX (MECHANICAL ATTACHED) PANELS TO CLIPS AS SHOWN.
- PROTECT THE PANEL'S PAINT FINISH FROM HOT DRILL FILINGS. THESE FILINGS WILL BECOME SELF-EMBEDDED IN THE PAINT AND CREATE RUST SPOTS NOT COVERED IN THE FINISH WARRANTY.
- SNAP ON THE SEAM CAP AFTER THE PANEL HAS BEEN RIVETED TO THE PANEL CLIPS. SEE DRAWING.
- USE THE HAND CRIMPING TOOL AND CRIMP THE SEAM CAPS AT THESE FIXED LOCATIONS.
- DO NOT RUN THE MOTORIZED ELECTRIC SEAMING MACHINE OVER THESE FIXED LOCATIONS.

ERECTOR NOTE: FIXED PANEL LOCATION EXPLANATION

- THE FIXED PANEL LOCATIONS ILLUSTRATED ON THE ROOF PLAN DESIGNATE A "FIXED LOCATION" BETWEEN THE PANEL AND PANEL CLIP.
- THIS "FIXED LOCATION" IS A MECHANICAL CONNECTION BETWEEN THESE TWO COMPONENTS, PANEL AND PANEL CLIP.
- A "FIXED LOCATION" CAN ONLY OCCUR AT ONE LOCATION ON EACH PANEL.
- DO NOT ATTACH EACH PANEL CLIP TO THE PANEL.
- THE PANEL MUST BE FIXED (MECHANICAL ATTACHED) AT ONE LOCATION AND ALL REMAINING PANEL CLIPS ALONG THE PANEL MUST NOT BE ATTACHED.
- ONCE THE PANEL IS FIXED AT THE ONE LOCATION, THE REMAINING NON-ATTACHED PANEL CLIPS WILL ALLOW PANEL THERMAL MOVEMENT.
- THIS THERMAL MOVEMENT IS EXPANSION AND CONTRACTION OF THE PANEL ALONG ITS' ENTIRE LENGTH.

2-Rivet Mid-Curve Fixed Panel Detail

SEE ROOF PLAN FOR CORRECT PLACEMENT OF THE PANEL'S FIXED LOCATIONS.
IF THIS IS UNCLEAR IN ANY MANNER, DO NOT INSTALL PANELS AND CONTACT THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE FOR CLARIFICATIONS.

SUBMITTAL

ERECTOR NOTE: FIXED PANEL INSTALLATION METHOD

- TYPICALLY, PANELS ARE 'FIXED' ALONG THE RIDGE/HIP/HEAD CONDITIONS AND PANEL THERMAL MOVEMENT IS DIRECTED TOWARD THE EAVE/SILL/VALLEY CONDITIONS.
- FIX (MECHANICAL ATTACHED) PANELS TO CLIPS AS SHOWN.
- PROTECT THE PANEL'S PAINT FINISH FROM HOT DRILL FILINGS. THESE FILINGS WILL BECOME SELF-EMBEDDED IN THE PAINT AND CREATE RUST SPOTS NOT COVERED IN THE FINISH WARRANTY.
- SNAP ON THE SEAM CAP AFTER THE PANEL HAS BEEN RIVETED TO THE PANEL CLIPS. SEE DRAWING.
- USE THE HAND CRIMPING TOOL AND CRIMP THE SEAM CAPS AT THESE FIXED LOCATIONS.
- DO NOT RUN THE MOTORIZED ELECTRIC SEAMING MACHINE OVER THESE FIXED LOCATIONS.

ERECTOR NOTE: FIXED PANEL LOCATION EXPLANATION

- THE FIXED PANEL LOCATIONS ILLUSTRATED ON THE ROOF PLAN DESIGNATE A "FIXED LOCATION" BETWEEN THE PANEL AND PANEL CLIP.
- THIS "FIXED LOCATION" IS A MECHANICAL CONNECTION BETWEEN THESE TWO COMPONENTS, PANEL AND PANEL CLIP.
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- THIS THERMAL MOVEMENT IS EXPANSION AND CONTRACTION OF THE PANEL ALONG ITS' ENTIRE LENGTH.

2-Rivet Fixed Panel Detail

SEE ROOF PLAN FOR CORRECT PLACEMENT OF THE PANEL'S FIXED LOCATIONS.
IF THIS IS UNCLEAR IN ANY MANNER, DO NOT INSTALL PANELS AND CONTACT THE MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE FOR CLARIFICATIONS.

STRUCTURAL ONLY
REGISTERED PROFESSIONAL ENGINEER JANE P. JOGIN No. S5720 EXP. 12/31/18 STRUCTURAL STATE OF CALIFORNIA
9-25-18
REF. MCE #170832

MATILIJA JHS GYMNASIUM REROOF
703 EL PASEO RD, OJAI, CA 93023

ARCHITECT: RNT ARCHITECTS
DATE: 06/29/17 | DWG BY: MEC | CHK BY: MA
PM: JEFF, MORGAN
CUSTOMER: NA
AGENT: JASON MORONNOLTE

REV: 1 DATE: 9-14-18
2 DATE: --/--/--
3 DATE: --/--/--
4 DATE: --/--/--

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JOB NUMBER: 23689
SHEET: 3 OF 5

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FILE NO. 56-21
03-118467
AC. FLS. SS. M.V.
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date

Sheet Name

PANEL DETAILS

	17761.00
Date	08/23/18
Drawn by	Author
Checked by	Checker
Sheet Number	R-103

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A/4 EXPANDING EAVE GUTTER DETAIL
ARCH. REF. : 2/A-301

B/4 FIXED HEAD DETAIL
ARCH. REF. : 2/A-301

C/4 RADIUSED RAKE DETAIL
ARCH. REF. : 1/A-301

RADIUSED TRIM NOTE:
ERECTOR TO FIELD CUT ALL RADIUSED TRIM COMPONENTS INTO SEGMENTS FROM FLAT STOCK LENGTHS. THESE SEGMENTS WILL BE INSTALLED/CHORDED TO FIT THE BUILDING CURVATURE BY FLASHING/LAPPING SEGMENTS IN A MANNER THAT PROPERLY SHEDS WATER.

SUBMITTAL

STRUCTURAL ONLY

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Sheet Number	R-104

D / 5 EXPANDING EAVE TRANSITION
ARCH. REF. : 17/A-501

E / 5 RADIUSED SLOPING JAMB DETAIL
ARCH. REF. : 1/A-301

F / 5 HEAD DETAIL @ EXHAUST VENT
ARCH. REF. : NA

G / 5 SLOPING JAMB DETAIL @ EXHAUST VENT
ARCH. REF. : NA

SUBMITTAL

STRUCTURAL ONLY

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OJAI UNIFIED SCHOOL DISTRICT

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Sheet Number	R-105

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MECHANICAL NOTES

1. SCOPE OF WORK: WORK INCLUDES THE FOLLOWING: FURNISH AND INSTALL ALL EQUIPMENT AND CONTROLS SHOWN ON THE MECHANICAL DRAWINGS AND DESCRIBED IN THESE NOTES, THE BOOK SPECIFICATIONS AND THE CONTRACT DOCUMENTS. WORK INCLUDES BUT IS NOT LIMITED TO: DEMOLITION OF EXISTING MECHANICAL SYSTEM, INCLUDING REMOVAL OF EXISTING UNIT HEATERS REMOVAL & REINSTALLATION OF EXISTING EXHAUST FANS & SPLIT SYSTEMS; INSTALLATION OF NEW UNIT HEATERS, EXHAUST FANS, AND CONTROLS. CONTRACTOR SHALL FURNISH AND INSTALL, MAKE OPERABLE, AND TEST ALL MECHANICAL EQUIPMENT SHOWN ON THE PLANS. IN CONNECTION THEREWITH, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY DEVICES, HARDWARE, AND SYSTEMS REQUIRED TO MAKE SAID EQUIPMENT PROPERLY AND SAFELY OPERABLE, INCLUDING BUT NOT LIMITED TO, MOUNTING HARDWARE, INSULATION, FILTERS, VIBRATION CONTROL DEVICES, DUCT SYSTEMS, CONTROL SYSTEMS, AND PATCHING & PAINTING. ANYTHING OF ANY KIND RELATED TO THE BUILDING AND IT'S STRUCTURE, IF REMOVED TO DEMO OR INSTALL NEW HVAC, NEEDS TO BE REPLACED AND PUT BACK TO A BETTER CONDITION PER LATEST BUILDING CODE THEN WHAT WAS PRIOR TO WORK TAKING PLACE.

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

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

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

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE, THE 2016 CALIFORNIA MECHANICAL CODE, THE 2016 CALIFORNIA BUILDING CODE, THE STATE OF CALIFORNIA, THE LOCAL JURISDICTION, AND STANDARD CONSTRUCTION PRACTICES. ALL MECHANICAL EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH THE EQUIPMENT SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES, AND SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, DSA AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION, AND THE SCHOOL DISTRICT. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN. NOTHING IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO APPLICABLE CODES.

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

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

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

9. DUCTWORK: CONTRACTOR SHALL INSTALL NEW DUCTWORK IN THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWINGS. ALL DUCTWORK SHALL BE SECURELY ANCHORED TO THE BUILDING IN AN APPROVED MANNER THAT WILL RENDER IT ABSOLUTELY FREE FROM VIBRATION AND LATERAL MOVEMENT. PROVIDE ALL OFFSETS & TRANSITION REQUIRED TO AVOID STRUCTURE & OTHER TRADES.

10. MATERIALS - DUCTWORK: ALL DUCTWORK FOR HVAC SYSTEMS SHALL BE GALVANIZED STEEL CONFORMING TO ASTM SPEC A525.

ALL ROUND DUCTWORK SHALL BE GALVANIZED CONSTRUCTION WITH GAUGES AND CONNECTIONS AS FOLLOWS: UP TO 12" DIAMETER (INCLUDING FITTINGS) - 26 GAUGE WITH 2" CRIMP JOINT. 13"-24" DIAMETER (INCLUDING FITTINGS) - 24 GAUGE WITH 2" CRIMP JOINT. WHERE NECESSARY TO MAKE FIELD CONNECTIONS BETWEEN PLAIN END DUCT, SLIP JOINT CONNECTORS SHALL BE PROVIDED. JOINT CONNECTION AND SEALING: SHEET METAL SCREW ALL FIELD MADE JOINTS WITH A MINIMUM OF THREE SCREWS. SPACING OF SCREWS NOT TO EXCEED TWELVE INCHES ON CENTER. COVER ALL FIELD MADE JOINTS WITH HARDCAST "IRON-GRIP 601" PREMIUM FLEXIBLE WATER BASED DUCT SEALANT. FITTINGS AT RECTANGULAR DUCT TAKEOFF SHALL BE SPIN-IN TYPE, COMPLETE WITH LOCKING TYPE VOLUME DAMPERS IF INDICATED ON PLANS.

CURVED ELBOWS SHALL HAVE CENTRALIZED RADIUS NOT LESS THAN THE WIDTH OF THE DUCT. WHERE ABRUPT TURNS AND ELBOWS ARE USED, TURNING VANES SHALL BE PROVIDED. TAKEOFFS FROM MAIN DUCTS SHALL BE MADE WITH 45 DEGREE ANGLES WITH VOLUME DAMPERS WHERE SHOWN. ALL PANELS SHALL BE CROSS BROKEN TO ENSURE RIGIDITY.

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

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

13. COORDINATION: MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH THE PROJECT MANAGER AND ALL RELATED TRADES.

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

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

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

17. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE DISTRICT PRIOR TO ACCEPTANCE OF THE PROJECT. INCLUDED IN THE AS-BUILTS SHALL BE DOCUMENTATION AND TWO COPIES OF THE PRINTED SHEETS AND PLANS ON MAGNETIC MEDIA.

18. DEMOLITION. REMOVE ALL EXISTING MECHANICAL SYSTEMS NOT REUSED IN THIS PROJECT WHICH SHALL BE OFFERED TO THE DISTRICT AND IF NOT TAKEN, PROPERLY RECYCLE ALL RECYCLABLE MATERIALS.

GENERAL NOTES

1. CUTTING, BORING SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA REPRESENTATIVE.

2. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/ORS.

~~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.~~

GREEN BUILDING NOTES

1. GENERAL CONTRACTOR SHALL ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. WASTE MANAGEMENT PLAN SHALL:
A.) IDENTIFY THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
B.) DETERMINE IF MATERIAL WILL BE SORTED ON-SITE OR MIXED
C.) IDENTIFY DIVERSION FACILITIES WHERE MATERIALS COLLECTED WILL BE TAKEN.
D.) SPECIFY THE AMOUNT OF MATERIALS DIVERTED WHICH SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BOTH.

2. RECYCLE WASTE MATERIAL BEING REMOVED FROM SITE TO THE GREATEST EXTENT POSSIBLE. RECORD ALL AMOUNTS DISPOSED AND ALL AMOUNTS RECYCLED.

3. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION: AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING 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 DUCT OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PER THE 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, C.G.B.S.C., SECTION 5.504.3

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AIR DISTRIBUTION SCHEDULE

EG EXHAUST GRILLE. KRUEGER, S80, 0° DEFLECTION, WHITE. PLASTER MOUNT.

EXHAUST FAN SCHEDULE

TAG	AREA SERVED	MAKE	MODEL	OPERATING WEIGHT (LBS.)	CFM	WC ESP (")	ELECTRICAL DATA VOLT	PHASE	WATTS	NOTES:
EF 1	SHOWER 102 & 111 R.R. 101 & 113	PANASONIC	FV-11-15VKL1	13.15	130	0.25	120	1	16.8	PROVIDE FLEX CONNECTORS ON OUTLET. CONTROL VIA HUMIDITY & MOTION SENSOR WITH LIGHT & BACKDRAFT DAMPER.

A,B,C, & D

TAG	AREA SERVED	MAKE	MODEL	OPERATING WEIGHT (LBS.)	CFM	WC ESP (")	ELECTRICAL DATA VOLT	PHASE	WATTS	NOTES:
EF 2	CUST. RM. 114	PANASONIC	FV-0511VQ1	13.15	83	0.25	120	1	10.8	PROVIDE FLEX CONNECTORS ON OUTLET. CONTROL VIA MOTION SENSOR WITH BACKDRAFT DAMPER.

TAG	AREA SERVED	MAKE (EXISTING)	MODEL (EXISTING)	OPERATING WEIGHT (LBS.)	CFM	WC ESP (")	ELECTRICAL DATA VOLT	PHASE	HP	NOTES:
EF 3	LOCKER ROOM 102 & 111	COOK	100 ACEB	39	530	0.125	120	1	1/6	PROVIDE SLOPED ROOF CURB, CONTROLS, & BACKDRAFT DAMPER. INSTALL TORK TIME CLOCK

A & B

UNIT HEATER SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	AREA SERVED	CFM	WEIGHT (LBS)	HEATING INPUT / OUTPUT (BTUH)	ELECTRICAL DATA VOLT	PHASE	HP	NOTES:
UH 1	REZNOR UDAP-75	LOCKER ROOM 102 & 111	961	79	75,000 / 62,250	120	1	0.06	S.S. HEAT EXCHANGER, TWO STAGE VALVE, DIRECT SPARK IGNITION, TOTALLY ENCLOSED FAN MOTOR, & VIBRATION ISOLATION KIT. THERMOSTAT

A & B

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVEABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED(E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THESE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. 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 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25. AND 1616A.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, SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

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

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

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

MP ☐ MD ☐ PP ☐ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

ABBREVIATIONS

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

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LICENSED ARCHITECT TYSON CLINE NO. C-34436 REN. 1-31-19 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
AC___ FLS ✓ SS M.K.
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date
	Plan Check	9/20/2018

Sheet Name

MECHANICAL NOTES & SCHEDULES

AE201810	17761.00
Date	5/31/2018
Drawn by	TP
Checked by	PW/HM

Sheet Number

M-100

1 MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

NORTH

2 MECHANICAL REFLECTED CEILING PLAN
1/8" = 1'-0"

NORTH

3 UNIT HEATER DETAIL
NTS

4 DUCT SUPPORT DETAIL
NTS

LOCATION MAP

AE Group
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838 East Front Street
Ventura, California 93001
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phil@aegroupme.com

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CONSTRUCTION DOCUMENTS

No.	Description	Date
	Plan Check	9/20/2018

Sheet Name

MECHANICAL FLOOR PLAN

AE201810	17761.00
Date	5/31/2018
Drawn by	TP
Checked by	PW/HM

Sheet Number

M-201

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

NORTH

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

NORTH

3 EXH FAN (EF-1&2) MOUNTING DETAIL
NTS

4 EXH FAN (EF-3) MOUNTING DETAIL
NTS

5 OUTDOOR UNIT MOUNTING DETAIL
NTS

LOCATION MAP

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OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date
	Plan Check	9/20/2018

Sheet Name

MECHANICAL ROOF PLAN

AE201810	17761.00
Date	5/31/2018
Drawn by	TP
Checked by	PW/HM

Sheet Number

M-301

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 1 of 4)
Project Name: Matilija junior high school gym reroofing and locker rm remodel	Date Prepared: 5/25/2018

A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2016 Nonresidential Manual

Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Comp. Doc./Worksheet #	Title
☑	☐	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
☑	☐	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals.
☑	☐	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12-A to 18-A). Required on plans where applicable.
☑	☐	NRCC-MCH-02-E (Part 1 of 2)	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
☑	☐	NRCC-MCH-02-E (Part 2 of 2)	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
☑	☐	NRCC-MCH-03-E	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
☐	☑	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
☐	☑	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 2 of 4)
Project Name: Matilija junior high school gym reroofing and locker rm remodel	Date Prepared: 5/25/2018

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

Test Performed By:

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck – The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-08-A	MCH-09-A	MCH-10-A	MCH-11-A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
Unit Heater	2	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 3 of 4)
Project Name: Matilija junior high school gym reroofing and locker rm remodel	Date Prepared: 5/25/2018

C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)

Test Performed By:

Designer:
This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

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The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Plancheck – The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description		MCH-12-A	MCH-13-A	MCH-14-A	MCH-15-A	MCH-16-A	MCH-17-A	MCH-18-A
Equipment Requiring Testing or Verification	# of Units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
Unit Heater	2	☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
		☐	☐	☐	☐	☐	☐	☐
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STATE OF CALIFORNIA
MECHANICAL SYSTEMS
CEC-NRCC-MCH-01-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-01-E
Mechanical Systems	(Page 4 of 4)
Project Name: Matilija junior high school gym reroofing and locker rm remodel	Date Prepared: 5/25/2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Tony Perez	Documentation Author Signature:	
Company:	AE Group Mechanical Engineers, Inc.	Signature Date:	5/25/2018
Address:	838 E. Front St.	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Ventura, Ca 93001	Phone:	(805) 653-1722

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:	Phil White	Responsible Designer Signature:	
Company :	AE Group Mechanical Engineers, Inc.	Date Signed:	5/25/2018
Address:	838 E. Front St.	License:	M15777
City/State/Zip:	Ventura, Ca 93001	Phone:	805-653-1722

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LICENSED ARCHITECT — TYSON CLINE — NO. C-34436 — REN. 1-31-19 — STATE OF CALIFORNIA

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DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD,
OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date
	Plan Check	9/20/2018

Sheet Name

ENERGY FORMS

AE201810	17761.00
Date	5/31/2018
Drawn by	TP
Checked by	PW/HM

Sheet Number

EN-100

PLUMBING NOTES

1. SCOPE OF WORK: PLUMBING WORK INCLUDES THE FOLLOWING: DEMOLITION OF EXISTING FIXTURES & PIPING BOTH BELOW GRADE & ABOVE GRADE PIPING INDICATED ON THE THE PLUMBING AND ARCHITECTURAL DRAWINGS. AS A PART OF THIS WORK, ANYTHING OF ANY KIND RELATED TO THE BUILDING AND IT'S STRUCTURE IF REMOVED TO DEMO OR INSTALL NEW PLUMBING OF ANY KIND, NEEDS TO BE REPLACED AND PUT BACK TO A BETTER CONDITION PER LATEST BUILDING CODE THAN WHAT WAS PRIOR TO WORK TAKING PLACE. FURNISH AND INSTALL ALL PIPING AND PLUMBING FIXTURES SHOWN ON THE PLUMBING AND ARCHITECTURAL DRAWINGS AND DESCRIBED IN THESE NOTES AND THE BOOK SPECIFICATIONS. UNLESS OTHERWISE DIRECTED BY BUILDING OWNER, CONTRACTOR SHALL ARRANGE FOR AND PAY ALL FEES FOR CONNECTIONS TO UTILITIES FOR GAS, WATER, & SEWER. IN CONNECTION WITH THIS WORK CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY LABOR, DEVICES, HARDWARE AND SYSTEMS REQUIRED TO MAKE SAID SYSTEMS PROPERLY AND SAFELY OPERABLE, INCLUDING, BUT NOT LIMITED TO, CONCRETE SAW CUTTING, TRENCHING AND BACKFILL, PATCHING & FILLING OF UNUSED PENETRATIONS, PIPING MOUNTING AND SUPPORT HARDWARE, FRAMING, INSULATION, VALVES, CLEANOUTS AND PATCHING & PAINTING.

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

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

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

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE, THE 2016 CALIFORNIA MECHANICAL CODE, THE 2016 CALIFORNIA BUILDING CODE, THE STATE OF CALIFORNIA, DSA, THE LOCAL JURISDICTION, AND STANDARD CONSTRUCTION PRACTICES. ALL PLUMBING FIXTURES SHALL BE IN STRICT ACCORDANCE WITH THE FIXTURE SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES, AND SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, DSA, AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION, AND GENERAL CONTRACTOR / OWNER. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, STANDARDS SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN.

6. SUBMITTALS REQUIRED: PRIOR TO ORDERING FIXTURES AND MATERIALS, CONTRACTOR SHALL FURNISH SUBMITTALS OF ALL FIXTURES AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ALL FIXTURES AND MATERIALS SHALL BE INSTITUTIONAL GRADE HEAVY DUTY QUALITY. ORDERING OF FIXTURES AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY ENGINEER / OWNER. COPIES OF ALL OWNER'S MANUALS, WARRANTIES, AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE SUBMITTED TO OWNER.

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

8. UNDERGROUND ALERT: CALL 811 BEFORE YOU DIG OR VISIT CALIFORNIA811.ORG TO REQUEST A TICKET ONLINE."

DO NOT START ANY EXCAVATION JOB WITHOUT FIRST OBTAINING A POSITIVE RESPONSE FROM SOCALGAS THAT YOUR LOCATE AND MARK REQUEST HAS BEEN ADDRESSED.

BEFORE LAYING OUT PIPING AND PERFORMING TRENCHING, CONTRACTOR SHALL DETERMINE LOCATIONS OF EXISTING UNDERGROUND UTILITIES. CONTACT "DIG ALERT / UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA" - 811 OR CALIFORNIA811.ORG. CONTRACTOR SHALL ALSO CONTACT OWNER'S REPRESENTATIVE TO ASCERTAIN LOCATIONS OF UNDERGROUND PIPING AND OTHER CONDITIONS AFFECTING TRENCHING, AND SHALL PERFORM TESTING AND SUBSURFACE EXPLORATION AS NECESSARY TO LOCATE UTILITIES.

9. TRENCHING: MATERIAL SHALL BE EXCAVATED FROM TRENCHES AND PILED ADJACENT TO THE TRENCH. MATERIAL SHALL BE PILED IN SUCH A MANNER THAT WILL CAUSE A MINIMUM OF INCONVENIENCE TO PUBLIC TRAVEL. ALL ROCK, BOULDERS, AND STONES SHALL BE REMOVED TO PROVIDE A MINIMUM CLEARANCE OF SIX (6) INCHES UNDER AND AROUND PIPES. EXCAVATIONS SHALL BE KEPT FREE OF WATER. TRENCHES SHALL BE DUG TO TRUE AND SMOOTH BOTTOM GRADES AND IN ACCORDANCE WITH THE LINES INDICATED ON DRAWINGS AND AS DIRECTED. TRENCH WIDTHS SHALL NOT EXCEED 30 INCHES OR 1.5 TIMES OUTSIDE DIAMETER OF THE PIPE PLUS 18 INCHES WHICHEVER IS GREATER. MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF PIPE INSTALLED PLUS 12 INCHES.

DEPTH OF TRENCHING FOR WATER SHALL BE SUCH AS TO GIVE A MINIMUM COVER OF 18 INCHES OVER THE TOP OF THE PIPE. DEEPER EXCAVATION MAY BE REQUIRED DUE TO LOCALIZED BREAKS IN GRADE, OR TO INSTALL THE NEW PIPING UNDER EXISTING CULVERTS OR OTHER UTILITIES WHERE NECESSARY.

TRENCHING FOR SEWERS AND DRAINS SHALL BE OF SUFFICIENT WIDTH TO PERMIT PROPER JOINTING OF THE PIPE AND BACKFILLING OF MATERIAL ALONG THE SIDES OF THE PIPE. TRENCH WIDTH AT THE SURFACE OF THE GROUND SHALL BE KEPT TO THE MINIMUM AMOUNT NECESSARY TO INSTALL THE PIPE IN A SAFE MANNER. TRENCHES SHALL BE EXCAVATED BELOW THE BARREL OF THE PIPE A SUFFICIENT DISTANCE TO PROVIDE FOR BEDDING MATERIAL.

WHERE THE TRENCH BOTTOM IS IN A MATERIAL WHICH IS UNSUITABLE FOR FOUNDATION OR WHICH WILL MAKE IT DIFFICULT TO OBTAIN UNIFORM BEARING FOR THE PIPE, SUCH MATERIAL SHALL BE REMOVED AND A STABLE FOUNDATION PROVIDED. THIS SHALL INCLUDE THE PREPARATION OF THE NATIVE TRENCH BOTTOM AND/OR THE TOP OF THE FOUNDATION MATERIAL TO A UNIFORM GRADE SO THAT THE ENTIRE LENGTH OF PIPE RESTS FIRMLY ON A SUITABLE PROPERLY COMPACTED MATERIAL. GRAVEL TO BE USED FOR FOUNDATION PURPOSES SHALL BE OF A TYPE AND GRADATION TO PROVIDE A SOLID COMPACT BEDDING IN THE TRENCH.

10. BACKFILL: CONTRACTOR SHALL COMPLETE BEDDING AND THEN BACKFILL TO 6 INCHES OVER THE TOP OF THE PIPE WITH SAND BEFORE STARTING BACKFILLING OPERATIONS. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE PIPE FROM DAMAGE, MOVEMENT AND SHIFTING. COMPACTION EQUIPMENT USED ABOVE THE PIPE ZONE SHALL BE OF A TYPE THAT DOES NOT INJURE THE PIPE. WHERE ORIGINAL EXCAVATED MATERIAL IS UNSUITABLE FOR TRENCH BACKFILL, BACKFILL GRAVEL SHALL BE PLACED. UNSUITABLE MATERIAL SHALL BE REMOVED TO A DISPOSAL AREA. WHEREVER A TRENCH IS EXCAVATED IN A PAVED ROADWAY, SIDEWALK OR OTHER AREA WHERE MINOR SETTLEMENTS WOULD BE DETRIMENTAL AND WHERE NATIVE EXCAVATED MATERIAL IS NOT SUITABLE FOR COMPACTION AS BACKFILL, TRENCH SHALL BE BACKFILLED WITH BACKFILL GRAVEL. WARNING TAPE MARKERS AND TRACER WIRES SHALL BE INSTALLED DURING BACKFILL OPERATIONS.

THE METHOD OF COMPACTION SHALL BE AT CONTRACTOR'S OPTION, UNLESS EXCAVATION PERMIT REQUIRES A SPECIFIC TYPE. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE PROPER SIZE AND TYPE OF COMPACTION EQUIPMENT AND SELECT THE PROPER METHOD OF UTILIZING SAID EQUIPMENT TO ATTAIN THE REQUIRED COMPACTION DENSITY. COMPACTION BY WATER JETTING WILL NOT BE PERMITTED.

WHERE BACKFILL IS REQUIRED TO BE COMPACTED TO A SPECIFIED DENSITY, TESTS FOR COMPLIANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITY. ALLOW TESTING SERVICE TO INSPECT AND APPROVE EACH SUBGRADE AND FILL LAYER BEFORE FURTHER FILL, BACKFILL OR CONSTRUCTION WORK IS PERFORMED.

11. PIPING LOCATIONS: PIPING LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL LATERAL STUBS, OFFSETS, OBSTRUCTIONS, ETC. REQUIRED IN THE FIELD. THE ACTUAL LOCATIONS OF LINES, CLEANOUTS AND CONNECTIONS MAY VARY PROVIDED THAT COMPLETE SYSTEMS ARE SIZED AND INSTALLED IN COMPLIANCE WITH CODES. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO INSTALLATION.

12. WATER PIPING: WATER PIPING: ALL UNDERGROUND SITE PIPING SHALL BE U.S. MANUFACTURED SCH. 80 PVC. INSTALL TAPE MARKERS AND TRACER WIRES FOR ALL BURIED PLASTIC PIPE. ALL ABOVE GROUND COLD AND HOT WATER PIPES IN BUILDINGS SHALL BE U.S. MANUFACTURED TYPE "L" HARD COPPER WITH (NON-LEAD) SOLDER SWEAT JOINTS. ALL UNDERGROUND WATER PIPING IN BUILDINGS SHALL BE U.S. MANUFACTURED TYPE "K" SOFT COPPER, WITH NO JOINTS ALLOWED UNDER SLABS. UNDERGROUND JOINTS SHALL BE BRAZED. ALL WATER SHUT-OFF VALVES SHALL BE BALL TYPE OF LEAD-FREE CONSTRUCTION, NIBCO S-685-80-LF OR EQUAL. WHERE PIPES PIERCE FINISHED SURFACES, CHROME PLATED CAST BRASS ESCUTCHEONS WITH SET SCREW (BRASSCRAFT CB SERIES OR EQUAL) SHALL BE INSTALLED. SINK STOPS SHALL BE LEAD-FREE HEAVY PATTERN, ANGLE, 1/2" FEMALE INLET, 1/2" FEMALE OUTLET, WITH LOOSE KEY, CHROME PLATED, CHICAGO FAUCET 442-LK OR EQUAL. CONNECT STOPS WITH CHROME PLATED BRASS NIPPLES INTO FIP ADAPTERS BEHIND ESCUTCHEONS. SUPPLY TUBES SHALL BE BRAIDED STAINLESS STEEL WITH (1) 1/2" FEMALE FITTING & (1) 1/2" MALE FITTING

13. WATER PRESSURE: WATER PRESSURE SHALL BE MAINTAINED AT A MINIMUM OF 60 PSI. IF WATER PRESSURE IS IN EXCESS OF 80 PSI, AN APPROVED WATER PRESSURE REGULATOR AND PRESSURE RELIEF VALVE SHALL BE INSTALLED.

14. NATURAL GAS PIPING: ALL ABOVE GROUND NATURAL GAS PIPING 2-1/2" AND SMALLER SHALL BE US MANUFACTURED BLACK (INTERIOR) OR GALVANIZED (EXTERIOR) SCH. 40 STEEL PIPE WITH 150 POUND BLACK OR GALVANIZED THREADED FITTINGS. ALL UNDERGROUND NATURAL GAS PIPING SHALL BE US MANUFACTURED POLYETHYLENE PLASTIC SDR 11.0 OR LESS APPROVED FOR NATURAL GAS SERVICE, JM EAGLE OR EQUAL. INSTALL TRACER WIRES FOR UNDERGROUND PLASTIC PIPE. TRANSITIONS FROM PLASTIC TO STEEL PIPE SHALL BE MADE WITH PRE-BENT ANODELESS LISTED STEEL TRANSITION FITTING. FOR INDIVIDUAL GAS SHUTOFF VALVES AT BUILDINGS, McDONALD 10710 FOR 1-1/2" AND SMALLER & ROCKWELL SUPER NORDSTROM 200 CWP FLANGED FOR 2" AND LARGER. PROVIDE A CAPPED DIRT LEG IN EACH PIPE SERVING GAS BURNING EQUIPMENT. PAINT EXPOSED PIPING, VALVES, CLAMPS, & STRUTS WITH ANTI-CORROSIVE PAINT (COLOR TO MATCH ADJACENT SURFACE). SUPPORT ON STRUT PER 2016 CPC.

15. WASTE AND VENT PIPING: ALL DRAIN & VENT PIPING AND FITTINGS SHALL BE U.S. MANUFACTURED "NO-HUB" CAST IRON WITH STAINLESS STEEL BAND CLAMPS. THE BUILDING SEWER (BEYOND 5 FEET OF FOUNDATION) SHALL BE U.S. MANUFACTURED SCHEDULE 40 PVC PLASTIC GRAVITY SEWER PIPE MEETING THE REQUIREMENTS OF ASTM D-2665.& D-1785& NSF LISTED. EXTENSIONS TO SERVE CLEANOUTS AT GRADE SHALL BE NO-HUB CAST IRON WITH STAINLESS STEEL BAND CLAMPS. ALL LINES SHALL BE SLOPED @ 1/4"/FT MIN OR IN COMPLIANCE WITH CODE. WHERE VENT PIPES PENETRATE THE ROOF, PIPING SHALL BE FLASHED AND COUNTER-FLASHED. VANDAL-PROOF VENT CAPS (JR SMITH 1748, ZURN Z-193, OR EQUAL) SHALL BE INSTALLED ON EVERY PLUMBING VENT. SINKS SHALL BE INSTALLED WITH ADA COMPLIANT OFFSET PERFORATED GRID DRAIN ASSEMBLIES, AMER STD, OR EQUAL. SINK P-TRAPS SHALL BE INSTITUTIONAL GRADE CHROME PLATED VANDAL-PROOF HEAVY DUTY CAST BRASS, MCGUIRE MFG CO "VANDAL TRAP", OR EQUAL. FOR ACCESSIBLE LAVATORIES AND SINKS, INSULATE WITH PLUMBEREX HANDY-SHIELD MAXX, WITH TAMPER-RESISTANT FASTENERS. WHERE DRAINS PENETRATE WALLS, CHROME PLATED CAST BRASS ESCUTCHEONS WITH SET SCREWS SHALL BE INSTALLED. COMBINE ALL PLUMBING VENTS AND RUN TO HIGHEST PART OF ROOF, AT LEAST 10-FT. FROM AIR INTAKES. ALL UNDERGROUND CAST IRON SHALL BE WRAPPED WITH 10 MIL POLYETHYLENE PER THE DUCTILE IRON PIPE RESEARCH COUNCIL RECOMMENDATIONS.

16. CLEANOUTS: WALL CLEANOUTS SHALL BE CAST IRON CLEANOUT TEE WITH COUNTERSUNK BRONZE PLUG AND ROUND STAINLESS STEEL COVER WITH VANDAL-PROOF -SCREWS - J.R. SMITH 4532S-UY; ZURN Z-1446-BP-VP, OR EQUAL. FLOOR CLEANOUTS SHALL BE CAST IRON BODY WITH BRONZE PLUG AND SQUARE ADJUSTABLE NON-SKID NICKEL-BRONZE TOP WITH VANDAL PROOF TOP FOR FINISHED FLOOR, J.R. SMITH 4043S-PB, ZURN ZN-1400-TVP, OR EQUAL. CLEANOUTS TO GRADE SHALL BE J.R. SMITH 4253S OR EQUAL WITH BRONZE PLUG AND NON-SKID COVER WITH LIFTING DEVICE SET FLUSH WITH SURFACE FOR PAVED AREAS. NON-TRAFFIC OR NON-SURFACED AREAS SHALL BE INSTALLED WITH CAST IRON CLEANOUT RISERS TERMINATING WITH BRONZE PLUG WITHIN CONCRETE YARD BOX WITH CAST IRON COVER AND THE WORDS "BUILDING SEWER CLEANOUT" MARKED ON COVER.

17. CONDENSATE DRAINS: ALL CONDENSATE DRAINS SHALL BE U.S. MANUFACTURED TYPE "L" HARD COPPER, WITH SOLDER WROT COPPER FITTINGS. SLOPED AT 1/4" PER FOOT MINIMUM. DRAINS SHALL DISCHARGE WHERE INDICATED INTO AN APPROVED INDIRECT WASTE RECEPTOR. PROVIDE TEE W/ BRASS PLUG AT CHANGES OF DIRECTION.

18. PIPING SUPPORT: ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE. HORIZONTAL WATER PIPES AND CONDENSATE DRAINS SHALL BE HUNG WITH SUPERSTRUT C-727-F ADJUSTABLE FELT-LINED PIPE HANGERS, THREADED ROD, AND BEAM ATTACHMENT BRACKETS, LOCATED AT SIX FOOT MAXIMUM INTERVALS. VERTICAL WATER PIPES AND CONDENSATE DRAINS SHALL BE SUPPORTED AT THEIR BASES AND AT EACH STORY OR AT TEN FOOT MAXIMUM INTERVALS. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT SIX FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING. HORIZONTAL NATURAL GAS PIPING SHALL BE SUSPENDED WITH THE SAME HARDWARE AS FOR WATER PIPING, EXCEPT WITHOUT FELT LINER, LOCATED EVERY TEN FEET FOR PIPES 3/4" AND SMALLER, AND TWELVE FEET MAXIMUM FOR PIPES 1" AND LARGER. VERTICAL NATURAL GAS PIPING SHALL BE SUPPORTED AT EACH STORY HEIGHT. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT TEN FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING.

HORIZONTAL CAST IRON PIPING SHALL BE HUNG WITH SUPERSTRUT C-710 ADJUSTABLE CLEVIS HANGERS, THREADED ROAD, AND BEAM ATTACHMENT BRACKETS, LOCATED AT FIVE FOOT MAXIMUM INTERVALS. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT FIVE FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING. VERTICAL PIPING SHALL BE SUPPORTED AT EACH FLOOR WITH SUPERSTRUT C-720 RISER CLAMPS AND AT MIDSPAN WITH C-708 CLAMPS INTO SUPERSTRUT CHANNEL.

19. ROUGH-IN: EXCEPT WHERE INDICATED IN THE FIXTURE SCHEDULE FOR HANDICAPPED FIXTURES, PIPING ROUGH-IN SHALL BE IN PRECISE ACCORDANCE WITH THE STANDARD ROUGH-IN DIMENSIONS PUBLISHED BE THE MANUFACTURER. ALL FIXTURES SHALL BE LOCATED IN STRICT CONFORMANCE WITH THE ARCHITECTURAL PLANS. COORDINATE WITH MECHANICAL CONTRACTOR FOR INSTALLATION OF GAS AND CONDENSATE PIPING TO ANY HVAC UNITS. COORDINATE W/ FRAMING & CONCRETE CONTRACTORS FOR BACKING & BLOCKOUTS AS REQD.

20. INSULATION: INSULATE ALL HOT WATER PIPING WITH 1 INCH THICK FIBERGLASS. ALL EXTERIOR PIPING SHALL BE COVERED W/ 0.016 ALUMINUM JACKET W/ FORMED ALUMINUM ELBOWS PABCO. INSULATE ALL CONDENSATE DRAIN PIPING WITH 1 INCH THICK FIBERGLASS. ALL SERVICE JACKETS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THERE SHALL BE NO GAPS IN THE INSULATION. FOR ACCESSIBLE LAVATORIES AND SINKS, INSULATE WITH PLUMBEREX HANDY-SHIELD MAXX, WITH TAMPER-RESISTANT FASTENERS, ADA COMPLIANT UNDER-LAV INSULATOR PROTECTORS OR EQUAL.

21. TESTING: ALL PIPING AND FIXTURES INSTALLED SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE, THE LOCAL JURISDICTION, AND THE SCHOOL DISTRICT STANDARDS.

22. STERILIZATION: ALL WATER PIPING SHALL BE FLUSHED AND STERILIZED. FLUSH EACH UNIT OF WATER SUPPLY AND DISTRIBUTION SYSTEM THOROUGHLY WITH CLEAN WATER AT THE HIGHEST VELOCITIES ATTAINABLE. STERILIZE WATER LINES BY FILLING WITH A SOLUTION CONTAINING FIFTY (50) PARTS OF CHLORINE PER MILLION PARTS OF WATER AND HOLDING THE SOLUTION THEREIN FOR AT LEAST EIGHT (8) HOURS WITH A WATER HEAD OF AT LEAST FIVE FEET ABOVE THE HIGHEST POINT IN THE SYSTEM. CONTINUE FLUSHING UNTIL THE RESIDUAL CHLORINE IS APPROXIMATELY, BUT NOT MORE THAN, TWO (2.0) PARTS PER MILLION.

23. MAINTAIN A MINIMUM OF TEN FEET OF CLEARANCE BETWEEN ANY AIR INTAKE AND ALL VENTS AND FLUES.

24. MANDATORY ENERGY MEASURES: PLUMBING EQUIPMENT SUBJECT TO CCR TITLE 24, PART 6, SHALL BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE EFFICIENCY REQUIREMENTS AS PRESCRIBED IN SECTIONS 111, 113, 114, AND 115. SAID PLUMBING EQUIPMENT SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH SECTION 123.

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

26. LOW-FLOW FIXTURES: THE PLUMBING FIXTURES AND PLUMBING FITTINGS SHALL MEET THE FOLLOWING STANDARDS: TOILETS - 1.28 GALLONS PER FLUSH MAX. SHOWERHEADS - 2.0 GPM MAX. LAVATORY FAUCETS - 0.5 GPM MAX. SINK FAUCETS - 1.5 GPM MAX. ALL FIXTURES SHALL MEET APPLICABLE ANSI STDS.

27. SEISMIC ANCHORING: ANCHOR ALL EQUIPMENT INCLUDING WATER HEATERS TO RESIST SEISMIC INDUCED MOTION WITH APPROVED ANCHORING DEVICES PER CPC & CBC REQTS.

28. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE SCHOOL DISTRICT PRIOR TO ACCEPTANCE OF THE PROJECT.

29. WARRANTY: THE CONTRACTOR SHALL WARRANT THAT ALL SYSTEMS, SUBSYSTEMS, AND COMPONENT PARTS ARE FULLY FREE FROM DEFECTIVE DESIGN, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE SCHOOL DISTRICT.

30. CLEANUP: CONTRACTOR SHALL THOROUGHLY CLEAN ENTIRE JOBSITE EVERY DAY OF ALL DEBRIS ASSOCIATED WITH PLUMBING INSTALLATION.

31. COORDINATION: CONTRACTOR SHALL COORDINATE WITH THE SCHOOL'S PROJECT MANAGER AND ALL RELATED TRADES.

32 CAP ALL ABANDONED PIPING BELOW FINISHED WALL OR FLOOR SURFACES.

33. CONTRACTOR SHALL REBUILD ALL FLUSHOMETERS 30 DAYS AFTER STARTUP.

34. CUTTING AND PATCHING. WORK INCLUDES CUTTING AND PATCHING (TO MATCH EXISTING) ALL SURFACES AND SYSTEMS DISTURBED BY THE PLUMBING WORK.

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TYSON CLINE
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
AC PVA FLS BS M-E
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD,
OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date
	Plan Check	9/20/2018

Sheet Name

PLUMBING NOTES

AE201810	17761.00
Date	5/31/2018
Drawn by	TP
Checked by	PW/HM

Sheet Number

P-100

FIXTURE SCHEDULE

SYMBOL	WASTE	VENT	CW	HW	DESCRIPTION
WC 1	4	2	1-1/4	-	TOILET, WHITE VITREOUS CHINA, ELONGATED BOWL, FLOOR MOUNT. AMERICAN STANDARD MADERA MODEL 3461.001, WITH OLSONITE #95 OPEN FRONT SEAT. 1.28 GALLONS PER FLUSH, SLOAN FLUSHOMETER MODEL 111. SEE ARCHITECTURAL PLANS FOR ADA COMPLIANT INSTALLATION REQTS.
U 1	2	1-1/2	1	-	URINAL, WHITE VITREOUS CHINA, WALL HUNG, AMERICAN STANDARD WASHBROOK MODEL 6590.001. 1/8 GALLON PER FLUSH , SLOAN FLUSHOMETER MODEL 180. INSTALL ON JR SMITH OR ZURN CARRIER. SEE ARCHITECTURAL PLANS FOR ADA COMPLIANT INSTALLATION REQTS.
L 1	2	1-1/2	1/2	1/2	LAVATORY, WALL MOUNT, WHITE VITREOUS CHINA, AMERICAN STANDARD "LUCERNE" 0355.012, W/ THREE HOLE (4" FIXED CENTERS). WITH METERING CHICAGO FAUCET MODEL 857-E2805-665PSHAB, 0.5 GPM VANDAL-PROOF NON-AERATING OUTLET. INSTALL TRUEBRO LAV GUARD. SEE ARCHITECTURAL PLANS FOR ADA COMPLIANT REQUIREMENTS FOR HEIGHTS AND LOCATIONS FOR EACH LAVATORY. INSTALL ON JR SMITH OR ZURN CARRIER.
DF 1	2	1-1/2	1	-	DRINKING FOUNTAIN: ELKAY MODEL EHWM217RAC, 14 GA TYPE 304 STAINLESS STEEL, BARRIER-FREE, DUAL HEIGHT, & VANDAL-RESISTANT BUBBLER. WALL MOUNTED WITH FACTORY WALL MOUNT BRACKET & MOUNTING PLATE. SEE ARCHITECTURAL DETAILS FOR ADA INSTALLATION DIMENSIONS.
SH 1	-	-	1/2	1/2	SHOWER, SINGLE STATION, ADA COMPLIANT. ACORN SHOWER-WARE 450BADA SERIES APEX TYPE 5, MODEL NO. 4-5-8-W-LVR-SB. FLUSH-MOUNTED, WITH T/P TEMPERATURE - PRESSURE BALANCING MIXING VALVE, SUPPLY FLOW CONTROL 1.5 GPM. SEE ARCHITECTURAL PLANS FOR ADA COMPLIANT INSTALLATION REQTS.

GREEN BUILDING NOTES

1. GENERAL CONTRACTOR SHALL ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. WASTE MANAGEMENT PLAN SHALL:
A.) IDENTIFY THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
B.) DETERMINE IF MATERIAL WILL BE SORTED ON-SITE OR MIXED
C.) IDENTIFY DIVERSION FACILITIES WHERE MATERIALS COLLECTED WILL BE TAKEN.
D.) SPECIFY THE AMOUNT OF MATERIALS DIVERTED WHICH SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BOTH.

2. RECYCLE WASTE MATERIAL BEING REMOVED FROM SITE TO THE GREATEST EXTENT POSSIBLE. RECORD ALL AMOUNTS DISPOSED AND ALL AMOUNTS RECYCLED.

FIXTURE SCHEDULE

SYMBOL	WASTE	VENT	CW	HW	DESCRIPTION
MS 1	3	2	3/4	3/4	MOP SINK. FIAT PRODUCTS MODEL TSB 3001 W/ S.S. WALL GUARD, HOSE AND HOSE BRACKET. CHICAGO FAUCET MODEL 897-RCF W/ WALL BRACE, & VACUUM BREAKER SPOUT WITH PAIL HOOK.
HB 1	-	-	3/4	-	NIBCO "WOODFORD" MODEL MB224 WITH MODULAR BOX SYSTEM, WALL HYDRANT, POLISHED BRASS, LOOSE TEE KEY. NIDEL 34HF ANTI SIPHON VACUUM BREAKER.
SHD 1	2	1-1/2"	1/2 (TP)	-	SHOWER DRAIN. JR SMITH MODEL #2005Y-B-P, ZURN MODEL #415 J OR EQUAL. WITH SQUARE TOP, NO HUB AND TRAP PRIMER CONNECTION.
FD 1	2	1-1/2"	1/2 (TP)	-	FLOOR DRAIN. JR SMITH MODEL #2005Y-B-P, ZURN MODEL #415 J OR EQUAL. WITH SQUARE TOP, NO HUB AND TRAP PRIMER CONNECTION.
FS 1	2	1-1/2"	1/2	-	FLOOR SINK, JR SMITH FIG. 3101Y-C-U-12, 8-1/2" SQUARE TOP, NICKEL BRONZE RIM, 3/4 GRATE. WITH RECTORSEAL SURESEAL TRAP SEAL.
TP 1	-	-	1/2	-	TRAP PRIMER, MIFAB M-500, INSTALL IN COLD WATER LINE WITH 12"X12" JR SMITH 4730-U-NB STAINLESS STEEL ACCESS COVER. INSTALL W/MI-DU DISTRIBUTION UNIT WHERE MULTIPLE TRAPS ARE SERVED.
WHA 1	-	-	1	-	WATER HAMMER ARRESTOR. JR SMITH 5005, ZURN Z-1700 #100, OR EQUAL. LOCATE INSIDE WALL WITH 12"X12" JR SMITH 4730-U-NB, STAINLESS STEEL ACCESS COVER WITH VANDAL-PROOF SCREWS.
WH 1	-	-	3/4	3/4	RE-LOCATE (E) WATER HEATER. BRADFORD WHITE MODEL D100L270E3N. 100 GAL. CAPACITY. INPUT - 270,000 BTUH. ELEC. DATA 115/1/60. PROVIDE AND INSTALL NEW HOLD-RITE SEISMIC RESTRAINT, DRIP PAN AND STAND, TYPE B FLUE, DIELECTRIC FITTINGS, T&P DRAIN, SUPPLY TUBES, AND WATTS EXPANSION TANK & TEMPERING VALVE. OPT. WT. 1,559 LBS.
RP 1					RE-CIRCULATING PUMP. HOT WATER SYSTEM. 5 GPM @ 25 FT HEAD. GRUNDFOS MODEL UP26-96 BF WITH OPEN ON RISE HONEYWELL AQUASTAT L4006 AND 7-DAY TIME CLOCK.. ELECTRICAL DATA - 208/1/60 1/12 HP. OPT. WT. 11.5 LBS.
SOV 1					SHUT-OFF VALVE. NIBCO S-685-80-LF. 1/2" THRU 2", BRONZE BALL VALVE, FULL PORT, SOLDER END. T-FP-600A-LF, 2-1/2" & LARGER, BRASS BALL VALVE, FULL PORT, THREADED END. LOCATE IN RESTROOM CEILING BEHIND JR SMITH, 15x15, 4730-U-NP STAINLESS STEEL ACCESS COVER W/ VANDAL PROOF SCREWS, TO PROVIDE INDIVIDUAL RESTROOM ISOLATION FOR SERVICE. SIZE ON PLANS.
PR 1					WATER PRESSURE REGULATION STATION. WILKINS MODEL 500YSBR. SEE DETAIL 1 ON SHEET P-402. ONE (3/4") AND ONE (1-1/2") WITH WATTS PRESSURE GAUGES SERIES DPG1. WITH STRAINER & HOSE BIBB UPSTREAM.
GSOV 1					GAS SHUT OFF VALVE: ROCKWELL, SUPER NORDSTROM PLUG VALVE, REGULAR PATTERN, ASME CLASS 600 - FIGURE 2224, CARBON STEEL BODY, THREADED. INSTALL PER MANUFACTURERS RECOMMENDATIONS. SIZE ON PLANS.
EQV 1					SEISMIC SAFETY GAS VALVE: PACIFIC SEISMIC PRODUCTS, KOSO, OR SAFE-T-QUAKE, SIZE ON PLANS. PROVIDE MODEL SUITABLE FOR ORIENTATION OF INSTALLED UNIT.

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NOTE :
CONTRACTOR SHALL FIRST OFFER ALL REMOVED FIXTURES TO THE DISTRICT. IF NOT WANTED BY THE DISTRICT, CONTRACTOR SHALL PROPERLY DISPOSE / RECYCLE.

NATURAL GAS PIPE SIZING PER 2016 CPC - CHAPTER 12, TABLE 1216.2(1)
MATILIJA JUNIOR HIGH SCHOOL - LOCKER RM

EQUIPMENT	QTY	BTUH/EA	TOTAL BTUH
UH UNIT (UH-1)	2	75,000	150,000
WATER HEATER	1	270,000	270,000
TOTAL:			420,000

CFH @ 1,000 BTUH/CF — 420 CFH

DISTANCE TO FURTHEST APPLIANCE: 140 FT.

FROM TABLE 1216.2(1) (150 FT.)

SIZE:	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CFH:	40	83	157	322	482	928

IMPORTANT NOTICE
ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.
CONTACT 811 OR california811.org

DIGALERT
CONTACT 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

SYMBOL LEGEND

- FLOOR DRAIN
- FLOOR CLEAN OUT
- COTG IN YARD BOX
- FLOOR SINK
- WALL CLEAN-OUT
- SHUT-OFF VALVE
- POD — POINT OF DISCONNECT
- POC — POINT OF CONNECTION
- HOSE BIB
- SAWCUT & PATCH

LINE LEGEND

- (E) COLD WATER
- (N) COLD WATER
- (E) HOT WATER
- (N) HOT WATER
- TW — (N) TEMPERED WATER
- HWR — (N) HOT WATER RETURN
- (E) VENT
- (N) VENT
- (N) WASTE OR SEWER
- (E) WASTE
- DEMO WASTE
- G — (E) GAS
- G — (N) GAS
- COND — (N) CONDENSATE
- TEE

ABBREVIATIONS

ABBREV. ABBREVIATIONS
ABV. ABOVE
APPROX. APPROXIMATELY
AFF ABOVE FINISHED FLOOR
BLDG BUILDING
BLW. BELOW
BOT BOTTOM
CFM CUBIC FEET PER MINUTE
CL CENTERLINE
CLG CEILING
COND CONDENSATE
CONT CONTINUED
CW COLD WATER
DIA DIAMETER
DN DOWN
DS DOWN SPOUT
DWG DRAWING
(E) EXISTING
EA EACH
EL,ELEV ELEVATION
ELEC ELECTRIC
EQ EQUIPMENT
EQUIP EQUIPMENT
EXH EXHAUST
FIN FINISHED
FLR FLOOR
FRM FROM
G GAS
GPM GALLONS PER MINUTE
HW HOT WATER
HWR HOT WATER RETURN
MIN. MINIMUM
MAX. MAXIMUM
(N) NEW
OC ON CENTER
POC POINT OF CONNECTION
RD ROOF DRAIN
SHT SHEET
SOV SHUT-OFF VALVE
TP TRAP PRIMER
TW TEMPERED WATER
TYP TYPICAL
UGND UNDERGROUND
VTR VENT TO ROOF
WCO WALL CLEAN-OUT

MATERIAL SCHEDULE - ALL US MANUFACTURER

SITE WATER PIPING, UNDERGROUND:	SCHEDULE 80 PVC
DOMESTIC WATER PIPING, ABOVE GROUND:	HARD COPPER TUBE:TYPE 'L' WATER TUBE
DOMESTIC WATER PIPING, BELOW GRADE:	SOFT COPPER TUBE:TYPE 'K' WATER TUBE
CONDENSATE DRAIN PIPING:	HARD COPPER TUBE:TYPE 'L' WATER TUBE
NATURAL GAS PIPING, BURIED:	POLYETHYLENE, SDR 11.0
NATURAL GAS PIPING, ABOVE GROUND:	STEEL PIPE: BLACK / GALV. STEEL, SCHEDULE 40
SANITARY WASTE AND VENT PIPING:	"NO-HUB" CAST-IRON PIPE

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OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
DATE DEC 12 2018

OJAI UNIFIED SCHOOL DISTRICT

MATILIJA JUNIOR HIGH SCHOOL GYM REROOFING AND LOCKER RM REMODEL

703 EL PASEO ROAD, OJAI, CA 93023

CONSTRUCTION DOCUMENTS

No.	Description	Date
	Plan Check	9/20/2018

Sheet Name

PLUMBING SCHEDULE

AE201810	17761.00
Date	5/31/2018
Drawn by	TP
Checked by	PW/HM
Sheet Number	P-101

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1 PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

NORTH

2 PLUMBING FLOOR PLAN
1/8" = 1'-0"

NORTH

LOCATION MAP

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PLUMBING FLOOR PLAN

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Sheet Number

P-201

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

NORTH

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

NORTH

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PLUMBING ROOF PLAN

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P-301

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1 ACCESSIBLE TOILET [113]
ENLARGED PLUMBING FLOOR PLAN
1/2" = 1'-0"

NORTH

2 ENLARGED PLUMBING FLOOR PLAN
1/2" = 1'-0"

NORTH

3 ACCESSIBLE TOILET [101]
ENLARGED PLUMBING FLOOR PLAN
1/2" = 1'-0"

NORTH

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ENLARGED PLUMBING FLOOR PLANS

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Sheet Number

P-401

1 / P-402 BUILDING WATER SUPPLY

SCALE: NONE

2 / P-402 PRESSURE REG. STATION

SCALE: NONE

3 / P-402 BUILDING GAS SUPPLY

SCALE: NONE

PLAN VIEW

4 / P-402 EQUIPMENT GAS CONNECTION

SCALE: NONE

5 / P-402 WATER CLOSET DETAIL

SCALE: NONE

6 / P-402 WATER HEATER MOUNTING DETAIL

SCALE: NONE

7 / P-402 WATER HEATER PIPING DETAIL

SCALE: NONE

8 / P-402 WALL CLEAN OUT DETAIL

SCALE: NONE

9 / P-402 FLOOR DRAIN DETAIL

SCALE: NONE

10 / P-402 FLOOR SINK DETAIL

SCALE: NONE

1. EXTERIOR SURFACE.
2. CHRIST YARD BOX F08 WITH FL08D LID
3. PLUGGED WYE AT END OF RUNS
4. CLEAN-OUT W/ PLUG

11 / P-402 SURFACE CLEANOUT TO GRADE (COTG TYP)

SCALE: NONE

12 / P-402 PIPE SUPPORT DETAIL

SCALE: NONE

13 / P-402 DRYWELL DETAIL

SCALE: NONE

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1 / P-403 COLD & HOT WATER RISER DIAGRAM
SCALE: NONE

2 / P-403 WASTE & VENT RISER DIAGRAM
SCALE: NONE

3 / P-403 GAS ISOMETRIC DIAGRAM
SCALE: NONE

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PLUMBING RISER DIAGRAMS

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P-403

GENERAL NOTES

A. GENERAL

1. SCOPE
THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT.

2. PERMITS AND CHARGES
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

3. REGULATIONS AND CODES
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2016 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.

4. VERIFYING EXISTING CONDITIONS
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

5. COORDINATION
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED.

SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS.

LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE SHOWN FOR CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID.

6. SERVICE CONTINUITY
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.

7. AS BUILT
PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

8. GUARANTEE
CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

9. SHOP DRAWINGS
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL.

SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.

10. CONTRACTOR BID
CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

B. MATERIAL AND INSTALLATION
ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL MATERIALS SHALL BE NEW AND LISTED FOR THE APPLICATION BY UNDERWRITERS LABORATORY (U.L.).

1. CONDUITS
CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR ACSR SHALL BE PERMITTED. FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT. ALL CONNECTIONS SHALL BE COMPRESSION & NOT SCREW TYPE.

2. SWITCHES AND RECEPTACLES
PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5-20R. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA SERIES TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

3. FEEDERS AND BRANCH CIRCUITS IDENTIFICATION
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER.

IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS.

IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT LABELING.

4. CONDUCTORS
DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS)

PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH 90°C THWN/THHN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED. CONDUCTOR SIZE NO.1 AWG AND SMALLER WITH 90 DEGREE C INSULATION ARE TO USE THE 60 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF CODE, TABLE 310-16, TO DETERMINE AMPACITY. (110.14C)

WHERE THE NUMBER OF CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(3)(a).

5. LIGHTING FIXTURES
PROVIDE LIGHTING FIXTURES WITH ELECTRONIC DRIVERS PER SCHEDULE, PROVIDE WITH LAMPS BY G.E., PHILIPS OR SYLVANIA AS STATED IN THE SCHEDULE.

NO SUBSTITUTIONS OF FIXTURES SHALL BE PROVIDED WITHOUT THE APPROVAL OF THE ENGINEER-OF-RECORD.

6. PANELBOARDS (BID SQUARE D; PROVIDE OF ALTERNATE BID)
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON-ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME.

7. STRUCTURAL SUPPORT
EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

8. ELECTRICAL CERTIFICATION
"ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTISHIP STANDARDS SECTION 3099.

C. DEMOLITION
1. NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

2. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

3. ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER-CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.

4. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS ON SITE AND IN WALL, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

5. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

6. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND RE-LABEL DEVICES AS SPARES.

7. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOOR, AND PATCH SURFACES.

8. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVE. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

9. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

10. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK

11. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

12. BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.

D. EXECUTION
1. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

2. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

3. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

4. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

5. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.

6. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

E. TELEPHONE SYSTEMS
PROVIDE RACEWAYS, AND ALL MATERIAL INCLUDING PULLING CABLE IN EACH RACEWAY AS REQUIRED FOR THE TELEPHONE SYSTEM PER THE TELEPHONE REQUIREMENTS.
ALL CAT 6 CABLES SHALL BE TESTED & MEET CURRENT BICSI STANDARDS, A TEST REPORT SIGNED BY A RCCD SHALL BE PROVIDED WITH THE DOCUMENTATION.

F. GROUNDING & BONDING
FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS.

G. INSTALLATION
1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT, TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

2. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES.

3. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

4. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.

5. FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.

6. DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.

7. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" DEEP.

8. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO ENGINEER FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIAL BEYOND WHAT IS REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.

9. ALL RECEPTACLES SHALL BE MOUNTED BETWEEN 18" AND 48" PER ADA REQUIREMENTS UNLESS NOTED OTHERWISE, MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY.

10. CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

11. ALL SWITCHES SHALL BE MOUNTED 36" TO 48" MEASURED FROM BOTTOM & TOP OF BOX RESPECTIVELY.

12. PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408.4.

H. FIRE ALARM SYSTEM
1. CONTRACTOR SHALL PROVIDE AND INSTALL A FIRE ALARM SYSTEM FOR THE PROJECT AREA TO INCLUDE:
   A) SMOKE & CO DETECTORS IN ALL REQUIRED AREAS
   B) HEAT DETECTORS IN ALL REQUIRED AREAS
   C) DUCT DETECTORS IN ALL REQUIRED SPACES
   D) STROBES/SPEAKERS IN ALL REQUIRED AREAS
   E) PULL STATIONS AT ALL LEGAL FIRE EXITS
   F) TAMPER AND FLOW SWITCHES
   G) SPEAKERS AS REQUIRED
2. CONTRACTOR SHALL SUBMIT FOR THE OWNERS SIGNED APPROVAL, APPROVED FIRE DEPARTMENT FIRE ALARM DRAWINGS FOR THE PROJECT SPACE.
3. CONTRACTOR SHALL BE BUILDING STANDARD.
4. ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MARSHALL APPROVED AND CURRENTLY LISTED.
5. CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEMS FOR A PERIOD OF TWO YEARS.
6. CONTRACTOR SHALL PROVIDE 6 (SIX) HARD COPY SETS OF FIRE ALARM MANUALS FOR ALL SYSTEMS AND DEVICES IN ADDITION TO 6 (SIX) HARD COPY SETS OF A SYSTEM OPERATIONAL MANUAL TAILORED FOR THE PROJECT SPACE.
7. CONTRACTOR SHALL PROVIDE AN INDIVIDUALLY ADDRESSABLE TOTALLY SUPERVISED SYSTEM WITH BATTERY BACK-UP FOR 24 HOURS OF MONITORING INITIATING CIRCUITS PLUS 30 MINUTES OF ALARM WITH DUAL RATE BATTERY CHARGER.
8. CONTRACTOR SHALL PROVIDE A SATISFACTORY SYSTEM TEST IN THE PRESENCE OF THE OWNER, FIRE PREVENTION BUREAU AND CONSULTING ENGINEER.
9. CONTRACTOR SHALL PROVIDE A CENTRAL MASTER ANNUNCIATOR PANEL IN THE ELECTRICAL ROOM AND A REMOTE PANEL IN AN AREA PER OWNERS REPRESENTATIVE AND LOCAL FIRE MARSHAL.
10. ANNUNCIATOR PANEL SHALL BE NONGRAPHIC WITH NAMEPLATE AND LED FOR EACH DEVICE ADDRESS, WITH AUDIBLE ALARM AND KEYED SILENCE SWITCH.
11. CONTRACTOR SHALL PROVIDE ALL CONNECTION TO POWER PANELS, CONDUIT AND WIRE AND CONNECTIONS REQUIRED TO PROVIDE AN OPERATIONAL FIRE ALARM SYSTEM.

COLOR CODE FOR CONDUCTORS

PROVIDE CONDUCTOR COLOR CODE AS FOLLOWS:
120/208VAC, 3ø, 4W: BLUE, BLACK, RED FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

277/480VAC, 3ø, 4W: ORANGE, BROWN, YELLOW FOR PHASE CONDUCTORS AND WHITE FOR NEUTRAL, GREEN FOR GROUND.

SYMBOLS

- RELAY CONTROLLED RECEPTACLE AT 18" AFF, PROVIDE WITHIN 6'-0" OF NON CONTROLLED RECEPTACLE. PROVIDE COVER PLATE WITH ENGRAVED "CONTROLLED".
- WP GFCI RECEPTACLE AT 18" AFF
- GFCI RECEPTACLE AT 42" AFF
- SINGLE RECEPTACLE, WALL MOUNTED @ +18"AFF, NEMA 5-20R U. O. N.
- DUPLEX RECEPTACLE, WALL MOUNTED @ +18"AFF, NEMA 5-20R U. O. N.
- I. G. ISOLATED (ORANGE) GROUND DUPLEX RECEPTACLE, WALL MTD.@18"AFF, NEMA 5-20R U. O. N.
- DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, WALL MOUNTED @ +18"AFF
- DUPLEX RECEPTACLE, WALL MOUNTED @ +18" NEMA 5-20R U. O. N. TOP RECEPTACLE SWITCHED
- DUPLEX RECEPTACLE, FLOOR MOUNTED, NEMA 5-20R
- CEILING MOUNTED DUPLEX RECEPTACLE, 5-20R
- 2 (2)DATA OUTLETS, 2 GANG 4SD BOX WITH DEVICES AND 2 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.
- 4 (4)DATA OUTLETS, 2 GANG 4SD BOX WITH DEVICES AND 4 CAT 6 CABLES PER NOTES & SPECIFICATION. PROVIDE 1-1/4"C MINIMUM TO CABLE TRAY OR IDF.
- SPECIAL OUTLET, TYPE AS REQUIRED BY EQUIPMENT.
- JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 370
- JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370
- THERMOSTAT - 36" TO 48" AFF, BOTTOM & TOP OF BOX RESPECTIVELY
- BRANCH CIRCUIT PANELBOARD - 120/208VAC, 3ø, 4W.
- 4'X8'X3/4" TELEPHONE BACKBOARD, MARINE PLYWOOD AND PAINTED WITH FIRE RESISTANT PAINT, PER OWNERS REPRESENTATIVE.
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS.
- CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND
- —E— EMERGENCY CIRCUIT
- FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIGHT CONDUIT IN ALL EXPOSED AREAS)
- —T— LOW VOLTAGE CABLE & CONDUIT 3/4"C-1ØCAT6 U. O. N.
- #10 HASH MARKS INDICATE QUANTITY OF #12 CONDUCTORS. NO HASH MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL CONDUITS.) WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE #12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE. (3/4" CONDUIT MINIMUM).
- 2LA 1-3-5,7 INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTRAL & CKT 7 WITH DEDICATED NEUTRAL.
- 3/4"C-2ø12 & 1ø12 GND
- 3/4"C-3ø12 & 1ø12 GND
- 3/4"C-4ø12 & 1ø12 GND
- 3/4"C-5ø12 & 1ø12 GND
- #10 3/4"C-2ø10 & 1ø10 GND
- #10 3/4"C-3ø10 & 1ø10 GND
- #10 3/4"C-4ø10 & 1ø10 GND
- #10 3/4"C-5ø10 & 1ø10 GND
- 1" CONDUIT MINIMUM IF UNDERGROUND (CONTRACTOR TO PROVIDE DEDICATED NEUTRALS FOR CIRCUITS WHICH DO NOT HAVE COMMON CIRCUIT HANDLE TIES ON BREAKERS FEEDING THE CIRCUITS)
- 1 SEE KEY NOTE #1 AS INDICATED ON DRAWING
- $p SWITCH WITH PILOT LIGHT @ 42"AFF
- $3ab 3-WAY SWITCH. a & b INDICATES LIGHT FIXTURE TO BE SWITCHED (EACH A 3-WAY) MOUNTED @ 42" AFF
- $ SWITCH MOUNTED @ +42" AFF
- $M MOTOR RATED SWITCH
- $a, b, c, d CIRCUIT SWITCH LEGS — WALL SWITCHES
- 60AS 30AF 3P DISCONNECT SWITCH, 60AMP SWITCH, 35 AMP FUSE, 3 POLE W/ OVERCURRENT PROTECTION U. O. N.
- M 100A UTILITY METER (OR AS NOTED)
- 3P 100AS 80AF FUSED DISCONNECT SWITCH 100AMP SWITCH RATING WITH 60 AMP FUSES, 3 POLE
- 200AF 150AT 3P MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATING, 3 POLE
- CCTV CCTV-VERIFY MOUNTING LOCATION AND REQUIREMENTS WITH CLIENT/OWNER.

ADDITIONAL NOTES

1. PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS.
2. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS.
3. FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION.
4. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (210.4)
5. MULTIWIRE BRANCH CIRCUITS SUPPLYING POWER TO THE PARTITION SHALL BE PROVIDED WITH A MEAN TO DISCONNECT SIMULTANEOUSLY ALL UNGROUNDED CONDUCTORS AT THE PANELBOARD WHERE THE BRANCH CIRCUIT ORIGINATES. (605.7)
6. ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS/SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXISTING OVERCURRENT DEVICES.
7. RACEWAY SEALS. CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT EITHER OR BOTH ENDS.
8. PROVIDE LOCAL DISCONNECTS FOR ALL HARDWIRED EQUIPMENT THAT IS NOT "WITHIN SIGHT" OF THE SOURCE PANEL.
9. MULTIPLE RACEWAYS CONTAINING MORE THAN 3 CURRENT CARRYING SETS OF A SYSTEM OPERATIONAL SHALL COMPLY WITH [2016 CEC, 310.15(B)(2)(A)].
10. THE IDENTIFICATION OF EVERY CIRCUIT OF A PANEL BOARD AND SWITCHBOARD SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE AND SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. 2016 C.E.C 408.4 - PROVIDE MORE DETAIL ON PANEL SCHEDULE CIRCUIT DESCRIPTIONS.
11. A SINGLE RECEPTACLE INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT SHALL HAVE AN AMPERE RATING OF NOT LESS THAN THAT OF THE BRANCH CIRCUIT. INDICATE THE RECEPTACLE RATING. (210.21(B)(1))
12. PROVIDE RECEPTACLE OUTLETS WHEREVER CORD CONNECTED EQUIPMENT WILL BE USED. (210.50(B))
13. WHERE THE DISCONNECTS ARE NOT PROVIDED WITHIN SIGHT FROM THE EQUIPMENT IT SUPPLIES, THE SWITCH OR CIRCUIT BREAKER MUST INCLUDE PROVISIONS FOR ADDING A LOCK, AND THESE PROVISIONS MUST REMAIN WITH THE EQUIPMENT. THESE LOCKING PROVISIONS HAVE TO BE PART OF THE EQUIPMENT, EITHER INHERENT TO THE EQUIPMENT DESIGN OR AS A ACCESSORY FEATURE THAT CAN BE INSTALLED ON THE EQUIPMENT. [410.141(B), 422.31(B), 424.19, 440.14 EXCEPTION NO. 1, 600.6(A)(2)(3), 620.51(A) EXCEPTION NO. 1, 620.53, 620.55]
14. STANDARD NON-LOCKING STRAIGHT-BLADE RECEPTACLES IN 120- AND 250-VOLT CONFIGURATION AT WET/DAMP LOCATION ARE REQUIRED TO BE LISTED WEATHER-RESISTANT TYPE. [CEC 406.8(A)].

LIST OF DRAWINGS

| SHEET | DESCRIPTION | SHEET | DES

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL	Date Prepared: 09-05-2018

A. General Information

Climate Zone: 6	Conditioned Floor Area:				
	Unconditioned Floor Area: 2960				
Building Type:	☐ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☑ Schools	☐ Relocatable Public Schools	☐ Conditioned Spaces	☐ Unconditioned Spaces		
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration		
Method of Compliance:	☑ Complete Building	☐ Area Category	☐ Tailored		

Project Address: 703 EL PASEO ROAD, OJAI, CA 93023

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
◉	○	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
◉	○	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
○	◉	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	◉	NRCC-LTI-04-E	Tailored Method Worksheets
○	◉	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
○	○	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL	Date Prepared: 09-05-2018

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	1749	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+				
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	1749	Adjusted **Installed** Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)			Complies ONLY if **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		2030	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
◉	○	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
◉	○	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

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CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 3 of 6)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL	Date Prepared: 09-05-2018

E. Declaration of Required Certificates of Acceptance

Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	FORM/TITLE	
◉	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
◉	○	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
○	◉	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector
○	◉	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for: ☐ **CONDITIONED SPACE** ☑ **UNCONDITIONED SPACE**

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

- ☐ The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.
- ☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
- ☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
- ☐ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed.

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL	Date Prepared: 09-05-2018

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft²							Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square Feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
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Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL	Date Prepared: 09-05-2018

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule			Installed Watts					Location	Field Inspector[1]	
01	02	03	04		05	06	07	08		
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default Item Mult	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (V.03 x V.05)		Primary Function area in which these luminaires are installed	Pass	Fail
F1	LED 1' X 4'	74	☐	☑	19	1406			○	○
			☐	☐		0			○	○
F2	LED 2' X 2'	25	☐	☑	7	175			○	○
			☐	☐		0			○	○
F3	LED 1' X 6'	42	☐	☑	4	168			○	○
			☐	☐		0			○	○
			☐	☐		0			○	○
			☐	☐		0			○	○
			☐	☐		0			○	○
INSTALLED WATTS PAGE TOTAL:						1749		Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

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CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL	Date Prepared: 09-05-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	KEN LUCCI	Documentation Author Signature:	
Company:	LUCCI & ASSOCIATES	Signature Date:	09-05-2018
Address:	3251 CORTE MALPASO, SUITE 511	CEA Certification Identification (if applicable):	
City/State/Zip:	CAMARILLO, CA., 93012	Phone:	805 389-6520

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:	KEN LUCCI	Responsible Designer Signature:	
Company:	LUCCI & ASSOCIATES	Date Signed:	09-05-2018
Address:	3251 CORTE MALPASO, SUITE 511	License:	E8340
City/State/Zip:	CAMARILLO, CA., 93012	Phone:	805 389-6520

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL 703 EL PASEO ROAD, OJAI, CA 93023	Date Prepared: 09-05-2018

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
◉	○	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
◉	○	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
◉	○	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
◉	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
◉	○	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
◉	○	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 meet the multi-level lighting control requirements in accordance with Section 130.1(b).
◉	○	All Installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
◉	○	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
○	◉	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
◉	○	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL 703 EL PASEO ROAD, OJAI, CA 93023	Date Prepared: 09-05-2018

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☑ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With[1] (✓ all that apply, or leave empty if Exempted)								PAF Credit Calculation[2]: Complying Lighting	Watts of Complying Lighting	PAF	Control Credit (1 x 2 x 3)	✓ if Acceptance Test Required	Field Inspector	
01	02	03	04	05	06	07	08	09	10		11		12	13	14	15	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(d)	§130.1(b)	§130.1(c)	§130.1(d)	§130.1(e)	§130.1(f)2	§140.6(d)							Pass	Fail
IST LEVEL	DIMMER & OCCUPANCY SENSOR	15	•	•	•									0	☐	○	○
														0	☐	○	○
														0	☐	○	○
														0	☐	○	○
														0	☐	○	○
														0	☐	○	○
														0	☐	○	○
Control Credit PAGE TOTAL (Sum of Column 13):														0			
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):																	
														Enter Control Credit total into NRCC-LTI-01-E; Page 1.			

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level: §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL 703 EL PASEO ROAD, OJAI, CA 93023	Date Prepared: 09-05-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	KEN LUCCI	Documentation Author Signature:	
Company:	LUCCI & ASSOCIATES	Signature Date:	09-05-2018
Address:	3251 CORTE MALPASO, SUITE 511	CEA Certification Identification (if applicable):	
City/State/Zip:	CAMARILLO, CA, 93012	Phone:	805 389-6520

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:	KEN LUCCI	Responsible Designer Signature:	
Company:	LUCCI & ASSOCIATES	Date Signed:	09-05-2018
Address:	3251 CORTE MALPASO, SUITE 511	License:	E8340
City/State/Zip:	CAMARILLO, CA, 93012	Phone:	805 389-6520

LICENSED ARCHITECTS — TERADA NAKAMURA ROESLING
Roesling Nakamura Terada Architects
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LICENSED ARCHITECT TYSON CLINE NO. C-34436 REN. 1-31-19 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
AC FLS BS M.K.
DATE DEC 17 2018

LUCCI & ASSOCIATES INC
CONSULTING ELECTRICAL ENGINEERS
3251 CORTE MALPASO, #511
CAMARILLO, CA 93012-8094
(805) 389-6520 FAX (805) 389-6519
Web Site http://www.lucciland.com

REGISTERED PROFESSIONAL ENGINEER — KENNETH M. LUCCI — No. E-8340 — Exp. 09/30/2020 — ELECTRICAL — STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

TITLE 24 PAGE 1

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI

Sheet Number

E101

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L.A.I.# 17426 PAPER SIZE 36"x24"

DATE: 6 September 2018 TIME: 2:11 pm
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C:\Users\lwasaki\Documents\Matilija Roofing Project_lwasaki@rntarchitects.com.rvt

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Drafter: Lee Keener; G:\17\426\EL\Sheets\17426E101.dwg; DATE: SEP 06, 2018 TIME: 9:19 AM

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL 703 EL PASEO ROAD, OJAI, CA 93023	Date Prepared: 09-05-2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0	0

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
					0
			Total Area:		
			Total Watts. Enter Total Watts into section A, row 1 (Above on this page)		0

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES	Watts
Total from section C-2.	2030
Total from section C-3.	
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	2030
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.	

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL 703 EL PASEO ROAD, OJAI, CA 93023	Date Prepared: 09-05-2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS				ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER ft²	X	AREA (ft²)	=	WATTS
1ST LEVEL	OFFICE	1.0		160		160
1ST LEVEL	RESTROOM	0.6		400		240
1ST LEVEL	LOCKER	0.7		2000		1400
1ST LEVEL	MECHANICAL	0.55		200		110
1ST LEVEL	STORAGE	0.6		200		120
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
				TOTALS		2960
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						2030
						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL 703 EL PASEO ROAD, OJAI, CA 93023	Date Prepared: 09-05-2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03 [2]	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of 04 or 06
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
				TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1		

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2 . Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL 703 EL PASEO ROAD, OJAI, CA 93023	Date Prepared: 09-05-2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: KEN LUCCI	Documentation Author Signature:
Company: LUCCI & ASSOCIATES	Signature Date: 09-05-2018
Address: 3251 CORTE MALPASO, SUITE 511	CEA Certification Identification (if applicable):
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

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: KEN LUCCI	Responsible Designer Signature:
Company : LUCCI & ASSOCIATES	Date Signed: 09-05-2018
Address: 3251 CORTE MALPASO, SUITE 511	License: E8340
City/State/Zip: CAMARILLO, CA., 93012	Phone: 805 389-6520

5.4.6 Lighting Control Acceptance Requirements (§130.4)
Before an occupancy permit shall be granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor and outdoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance.
A Certificate of Acceptance shall be submitted to the enforcement agency under §10-103(a) of Part 1 and §130.4(a), that:
1. Certifies that all of the lighting acceptance testing necessary to meet the requirements of Part 6 is completed
2. Certifies that the applicable procedures in Reference Nonresidential Appendix NA7.6 and NA7.8 have been followed
3. Certifies that automatic daylight controls comply with §130.1(d) and Reference Nonresidential Appendix NA7.6.1
4. Certifies that lighting shut-OFF controls comply with §130.1(c) and Reference Nonresidential Appendix NA7.6.2
5. Certifies that demand responsive controls comply with §130.1(e) and Reference Nonresidential Appendix NA7.6.3
6. Certifies that outdoor lighting controls comply with the applicable requirements of §130.2(c) and Reference Nonresidential Appendix NA7.8
7. Certifies that lighting systems receiving the Institutional Power Adjustment Factor comply with §140.6(a)2J and Reference Nonresidential Appendix NA7.7.6.2

5.4.7 Lighting Certificate of Installation Requirements
Before any of the following applications will be recognized for compliance with the lighting requirements, the person who is eligible under Division 3 of the Business and Professions Code to accept responsibility for the construction or installation of features, materials, components, or manufactured devices shall sign and submit the Certificate of Installation for installation of the following items:
1. Lighting Control System
2. Energy Management Control System
3. Track lighting integral current limiter
4. Track lighting supplementary overcurrent protection panel
5. Interlocked lighting systems service a single space
6. Lighting controls installed to earn a lighting Power Adjustment Factor (PAF)
7. Additional lighting wattage available for a videoconference studio

If any of the requirements in the Certificate of Installation fail the installation requirements, that application shall not be recognized for compliance with the Energy Standards.

Roesling Nakamura Terada Architects
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www.RNTarchitects.com

LICENSED ARCHITECT — TYSON CLINE NO. C-34436 — REN. 1-31-19 — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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FILE NO. 56-21
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DATE DEC 12 2018

LUCCI & ASSOCIATES INC.
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REGISTERED PROFESSIONAL ENGINEER — KENNETH M. LUCCI — No. E8340 — Exp. 09/30/2020 — ELECTRICAL — STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL
703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name
TITLE 24 PAGE 2

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI

Sheet Number
E102

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Drafter: Lee Keener; G:\17\426\EL\Sheets\17426E102.dwg; DATE: SEP 06, 2018 TIME: 9:18 AM

DEMOLITION NOTES:

1. REMOVE ALL INTERIOR AND EXTERIOR LIGHT FIXTURES FROM THE LOCKER ROOMS AND DELIVER THEM TO THE SCHOOL DISTRICT MAINTENANCE SHOP.
2. REMOVE ALL WIRE, CONDUIT, BOXES, SWITCHES, RECEPTACLES ASSOCIATED WITH PANEL G1 CIRCUITS G1-3, 5, 7, 9, 11, 13, 15, 17, 2, 4, 6, 8, 10, 12, AND 14. ELECTRICAL FOR CIRCUITS G1-19, 23, 16, 18 AND 24 TO REMAIN AND BE OPERATIONAL DURING CONSTRUCTION.
3. REMOVE EXISTING 1-1/2" CONDUIT FROM PAL G1 THAT GOES THROUGH THE ROOF IN THE BOYS LOCKER ROOM.
4. THE WALL AND CEILING COVERINGS ARE TO BE COMPLETELY REMOVED BY OTHERS SO THAT ALL CONCEALED ELECTRICAL CAN BE REMOVED.
5. DISCONNECT AND REMOVE WIRE, CONDUIT, BOXES, SWITCHES AND OTHER ELECTRICAL DEVICES ASSOCIATED WITH THE MECHANICAL SYSTEMS BEING REMOVED. REFER TO MECHANICAL PLANS FOR MECHANICAL EQUIPMENT DEMOLITION.

KEY NOTES:

1. EXISTING TO REMAIN.
2. 200A, 2 POLE DISCONNECT NEMA 3R

SHEET NOTES:

1. SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
2. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
3. PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
4. MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
5. DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
6. EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
7. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
8. SCHEDULE ALL WORK AND OUTAGES WITH TENANTS AND OWNERS WRITTEN APPROVAL.
9. CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

SCALE: 1/4"=1'-0"
0 2' 4' 8'

FIRST FLOOR POWER DEMOLITION PLAN

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

1 / E110

SITE MAP

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REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 5340
Exp. 09/30/2020
ELECTRICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

FIRST FLOOR POWER DEMOLITION PLAN

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI
Sheet Number	E110

DATE: 6 September 2018 TIME: 2:11 pm
PATHNAME: G:\17\426\EL\Sheets
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DEMOLITION NOTES:

1. REMOVE ALL INTERIOR AND EXTERIOR LIGHT FIXTURES FROM THE LOCKER ROOMS AND DELIVER THEM TO THE SCHOOL DISTRICT MAINTENANCE SHOP.
2. REMOVE ALL WIRE, CONDUIT, BOXES, SWITCHES, RECEPTACLES ASSOCIATED WITH PANEL G1 CIRCUITS G1-3, 5, 7, 9, 11, 13, 15, 17, 2, 4, 6, 8, 10, 12, AND 14. ELECTRICAL FOR CIRCUITS G1-19, 23, 16, 18 AND 24 TO REMAIN AND BE OPERATIONAL DURING CONSTRUCTION.
3. REMOVE EXISTING 1-1/2" CONDUIT FROM PAL G1 THAT GOES THROUGH THE ROOF IN THE BOYS LOCKER ROOM.
4. THE WALL AND CEILING COVERINGS ARE TO BE COMPLETELY REMOVED BY OTHERS SO THAT ALL CONCEALED ELECTRICAL CAN BE REMOVED.
5. DISCONNECT AND REMOVE WIRE, CONDUIT, BOXES, SWITCHES AND OTHER ELECTRICAL DEVICES ASSOCIATED WITH THE MECHANICAL SYSTEMS BEING REMOVED. REFER TO MECHANICAL PLANS FOR MECHANICAL EQUIPMENT DEMOLITION.

KEY NOTES:

1 SAVE AND REINSTALL PER E401.

SHEET NOTES:

1. SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
2. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
3. PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
4. MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
5. DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
6. EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
7. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
8. SCHEDULE ALL WORK AND OUTAGES WITH OWNERS WRITTEN AND OBTAIN APPROVAL.
9. CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

SCALE: 1/4"=1'-0"
0 2' 4' 8'

FIRST FLOOR LIGHTING DEMOLITION PLAN 1 E111
SCALE: 1/4"=1'-0"

SITE MAP

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IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
AC FS SC M.K.
DATE DEC 12 2018

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REGISTERED PROFESSIONAL ENGINEER KENNETH M. LUCCI No. E 5340 Exp. 09/30/2020 ELECTRICAL STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

FIRST FLOOR LIGHTING DEMOLITION PLAN

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI
Sheet Number	E111

L.A.I.# 17426 PAPER SIZE 36"x24"

DATE: 6 September 2018 TIME: 2:11 pm
PATHNAME: G:\17426\EL\Sheets
DRAWING FILENAME: 17426E111
DRAFTER: Lee Keener
C:\Users\lwasaki\Documents\Matilija Roofing Project_lwasaki@rntarchitects.com.rvt

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DATE: 6 September 2018 TIME: 2:11 pm

PATHNAME: G:\17\426\ELI\Sheets DRAWING FILENAME: 17426E112 DRAFTER: Lee Keener

DEMOLITION NOTES:

1. REMOVE ALL INTERIOR AND EXTERIOR LIGHT FIXTURES FROM THE LOCKER ROOMS AND DELIVER THEM TO THE SCHOOL DISTRICT MAINTENANCE SHOP.
2. REMOVE ALL WIRE, CONDUIT, BOXES, SWITCHES, RECEPTACLES ASSOCIATED WITH PANEL G1 CIRCUITS G1-3, 5, 7, 9, 11, 13, 15, 17, 2, 4, 6, 8, 10, 12, AND 14. ELECTRICAL FOR CIRCUITS G1-19, 23, 16, 18 AND 24 TO REMAIN AND BE OPERATIONAL DURING CONSTRUCTION.
3. REMOVE EXISTING 1-1/2" CONDUIT FROM PAL G1 THAT GOES THROUGH THE ROOF IN THE BOYS LOCKER ROOM.
4. THE WALL AND CEILING COVERINGS ARE TO BE COMPLETELY REMOVED BY OTHERS SO THAT ALL CONCEALED ELECTRICAL CAN BE REMOVED.
5. DISCONNECT AND REMOVE WIRE, CONDUIT, BOXES, SWITCHES AND OTHER ELECTRICAL DEVICES ASSOCIATED WITH THE MECHANICAL SYSTEMS BEING REMOVED. REFER TO MECHANICAL PLANS FOR MECHANICAL EQUIPMENT DEMOLITION.

SHEET NOTES:

1. SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
2. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
3. PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
4. MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
5. DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
6. EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
7. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
8. SCHEDULE ALL WORK AND OUTAGES WITH OWNERS & OBTAIN WRITTEN APPROVAL.
9. CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

KEY NOTES:

1. DISCONNECT EXISTING EQUIPMENT ELECTRICALLY FOR REROOFING PROJECT. SALVAGE ALL MATERIALS & RECONNECT EXISTING EQUIPMENT TO EXISTING UNITS. VERIFY ROTATION PRIOR TO RE-ENERGIZING UNITS.

3/16" = 1'-0"
0 1' 4' 8' 12'

ROOF DEMOLITION PLAN
SCALE: 3/16"=1'-0"

1 E112

N

SITE MAP

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L.A.I.# 17426 PAPER SIZE 36"x24"

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REN. 1-31-19
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OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL
703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

ROOF DEMOLITION PLAN

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI
Sheet Number	E112

EXISTING PANEL

PANEL NUMBER G1 EXISTING VOLTAGE 120/208 PHASE 3 WIRE 4
SOURCE MSB A.I.C. 10,000
PANEL LOCATION BOYS LOCKER ROOM BUS AMPERE RATING 200

■ NEMA 1 ■ COPPER BUSS
■ MAIN LUGS ONLY
■ FLUSH MOUNTING

LCL	MISC	RCPT	LTE	CIRCUIT DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	BRKR POLE	BRKR AMP	CKT	PHASE A B C	CKT	BRKR AMP	BRKR POLE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	CIRCUIT DESCRIPTION	MISC	RCPT	LTE	LCL
				SPARE	·			1	20	1		2	20	1	·			EXTERIOR LIGHTS				
				BOYS LIGHTS		·		1	20	3		4	20	1		·		BOYS LIGHTS				
				BOYS LIGHTS			·	1	20	5		6	20	1			·	BOYS LIGHTS				
				GIRLS LIGHTS	·			1	20	7		8	20	1	·			WATER HEATER CONTROL				
				GIRLS LIGHTS		·		1	20	9		10	20	1		·		SPARE				
		3		WATER HEATER CONTROL			·	1	20	11		12	20	1			·	EXTERIOR RECEPTACLE		3		
				BOYS EXHAUST FAN	·			1	20	13		14	20	1	·			BOYS OFFICE AC				
				GIRLS EXHAUST FAN		·		1	20	15		16	100			·		PANEL G2				
				GIRLS OFFICE AC			·	1	20	17		18		2			·	PANEL G2				
				FIRE ALARM	·			1	20	19		20	20	1	·			SPACE				
				SPARE		·		1	20	21		22	20	1		·		SPACE				
				GYM FANS			·	1	20	23		24	20	1			·	GYM FANS				
				·	·					25		26			·			·				
				·		·				27		28				·		·				
				·			·			29		30					·	·				
				TOTALS	·	·	·								·	·	·	TOTALS				

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL AMPS: . PHASE A . PHASE B . PHASE C .

CIRCUITS G1, 19, 23, 23, 16, 18 & 24 TO REMAIN AND BE OPERATIONAL DURING CONSTRUCTION.

NEW PANEL

PANEL NUMBER G1 VOLTAGE 120/208 PHASE 3 WIRE 4
SOURCE MSB A.I.C. 10,000
PANEL LOCATION BOYS LOCKER ROOM BUS AMPERE RATING 225

■ NEMA 1 ■ COPPER BUSS
■ MAIN LUGS ONLY
■ FLUSH MOUNTING

	LCL	MISC	RCPT	LTE	CIRCUIT DESCRIPTION	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	BRKR POLE	BRKR AMP	CKT	PHASE A B C	CKT	BRKR AMP	BRKR POLE	LOAD(VA) A	LOAD(VA) B	LOAD(VA) C	CIRCUIT DESCRIPTION	MISC	RCPT	LTE	LCL
			4		CUSTODIAN RECEPTACLE	720			1	20	1		2	20	1	200			EXTERIOR LIGHTS				
					BOYS LIGHTS		300		1	20	3		4	20	1		720		GIRLS LOCKER RECPTACLE		4		
					BOYS LIGHTS			300	1	20	5		6	20	1			540	GIRLS EXTERIOR RECPTACLE		3		
					GIRLS LIGHTS	300			1	20	7		8	20	1	500			WATER HEATER CONTROL				
					GIRLS LIGHTS		300		1	20	9		10	20	1		360		BOYS LOCKER RECEPTACLE		2		
					WATER HEATER CONTROL			500	1	20	11		12	20	1			540	BOYS EXTERIOR RECEPTACLE				
					BOYS EXHAUST FAN	100			1	20	13		14	20	1	600			BOYS OFFICE AC				
					GIRLS EXHAUST FAN		100		1	20	15		16	100			3200		PANEL G2				
					GIRLS OFFICE AC			600	1	20	17		18		2			3100	PANEL G2				
1					FIRE ALARM	100			1	20	19		20	20	1	360			BOYS OFFICE RECEPTACLE		2		
			5		STORAGE RECEPTACLE		900		1	20	21		22	20	1		360		BOYS OFFICE RECEPTACLE		2		
					GYM FANS			500	1	20	23		24	20	1			500	GYM FANS		2		
			2		GIRLS OFFICE RECEPTACLE	360			1	20	25		26	20	1	540			ROOF RECEPTACLES		3		
			2		GIRLS OFFICE RECEPTACLE		360		1	20	27		28	20	1		1000		SPLIT AC BOYS				
					SPARE			–	1	20	29		30	20	1			1000	SPLIT AC GIRLS				
						–			1	20	31		32	20	1	900			UH–1				
							–		1	20	33		34	20	1		900		UH–2				
								–	1	20	35		36	20	1			–	SPARE				
						–			1	20	37		38	20	1	–							
							–		1	20	39		40	20	1		–						
								–	1	20	41		42	20	1			–					
					TOTALS	1580	1960	1900								3100	6540	5680	TOTALS				

L.C.L. VOLT AMPS: . PHASE A . PHASE B . PHASE C .
TOTAL VOLT AMPS: 20760 PHASE A 4680 PHASE B 8500 PHASE C 7580
TOTAL AMPS: 57.7 PHASE A 39 PHASE B 70.8 PHASE C 63.2

1 LOCK ON CIRCUIT WITH RED BREAKER

EXISTING SYSTEM POWER CAPACITY HAS BEEN STUDIED AND IS ADEQUATE FOR REVISED POWER SYSTEM – EXISTING POWER KW DEMAND ON 'G' IS 230KW, NO NEW LOAD HAS BEEN ADDED

EXISTING ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NONE

1 / E200

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REGISTERED PROFESSIONAL ENGINEER KENNETH M. LUCCI No. E 5340 Exp. 09/30/2020 ELECTRICAL STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL
703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

EXISTING ELECTRICAL SINGLE LINE & PANEL SCHEDULES

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI
Sheet Number	E200

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Bentley Architecture V8 XM Edition (08.11.09.631)
Bentley Electrical V8 XM Edition (08.11.09.631)
PTB-Plot 3.00.23
Plot Date: 9/5/2018 2:11:23 PM
User: G:\17\426\EL\Sheets\17426E200.dwg
G:\17\426\EL\Sheets\17426E200.dwg Sep 06, 2018, 2:11pm Lee Keener

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
3. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED, 1" CONDUIT UNDERGROUND.
4. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
5. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
6. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
7. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
9. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
10. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
11. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.

DEVICE/CONTROL LEGEND

TAG	DESCRIPTION
—C5—	CAT 5 CABLE IN 3/4" CONDUIT
$V	VACANCY SENSOR SWITCH
$OS	OCCUPANCY SENSOR SENSOR SWITCH - LINE VOLTAGE DUAL LEVEL WSD PDT 2P
D1	nLIGHT ON/OFF RAISE LOWER #nPODMDXWH
D2	nLIGHT DIMMER 2 CHANNEL ON/OFF TOGGLE #nPODM2PDXWH
D4	nLIGHT DIMMER 4 CHANNEL TOGGLE WITH DIMMING #nPODM4PDXWH
RP	nLIGHT RELAY PACK #nPP16
OS	nLIGHT STANDARD RANGE 360° SENSOR CEILING MOUNT, LOW VOLTAGE DUAL TECHNOLOGY #nCMPDT9
AAOSP	nLIGHT AUTOMATIC DIMMING CONTROL PHOTOCELL, CEILING MOUNT, LOW VOLTAGE DUAL ZONE WITH OCCUPANCY SENSOR nCMPDT10ADCXDZ
PP2	POWER PACK, 2 LEVEL, 120/277VAC DUAL VOLTAGE
PC	PHOTOCELL 120/277VAC

LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS
F1		50	4' X 12" LED	LED	SURFACE - SEE ARCHITECTURAL AD-901 DETAIL 14	KENALL MLHAB48-F-MW-PP-1-67L40K-DCC-1-DV	-
F1E		50	4' X 12" LED	LED	SURFACE - SEE ARCHITECTURAL AD-901 DETAIL 14	KENALL MLHAB48-F-MW-PP-1-67L40K-DCC-1-DV	WITH 'EM' 90 MINUTE BATTERY PACK
F2		21	2'0" X 2'0" LED WET LOCATION	LED	SURFACE - SEE ARCHITECTURAL AD-901 DETAIL 14	KENALL MLHA8-24-MW-PP-25L40K-DCC-DV	-
F2E		21	2'0" X 2'0" LED WET LOCATION	LED	SURFACE - SEE ARCHITECTURAL AD-901 DETAIL 14	KENALL MLHA8-24-MW-PP-25L40K-DCC-DV	WITH 'EM' 90 MINUTE BATTERY PACK
F3		42	WALL WASH 6"X6'0"	LED	SURFACE - SEE ARCHITECTURAL AD-901 DETAIL 14	FOCAL POINT FWSL-650L-35K-1C-120-LD1-U-WH-6FT	
OL		-	OUTDOOR LIGHT	LED	WALL	LITHONIA DSX WILED-10C-350-40K-T2M-120-PE-PIRH1FC3V-ELWL	WITH 'EM' 90 MINUTE BATTERY PACK
X		-	EXIT LIGHT	LED	WALL	LITHONIA LHQ R120	WITH 'EM' 90 MINUTE BATTERY PACK

KEY NOTES:

1. EXISTING FAN COIL, RECONNECT.
2. VIA ASTRONOMICAL TIME CLOCK WITH PHOTOCELL, G1-2.
3. G1-3.
4. G1-7.
5. G1-5.
6. G1-9.
7. WITH 0-10V CONTROL.
8. nLIGHT npp16dER.
9. EM LIGHT WITH BATTERY PACK (90 MINUTE).
10. nLIGHT npp16d.

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

0 2' 4' 8'

FIRST FLOOR LIGHTING PLAN

1 / E300

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

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L.A.I.# 17426 PAPER SIZE 36"x24"

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OJAI UNIFIED SCHOOL DISTRICT

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703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

LIGHTING FIXTURE SCHEDULE

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI
Sheet Number	E300

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Drafter: Lee Keener G:\17\426\EL\Sheets\17426E300.dwg: DATE: SEP 06, 2018 TIME: 9:06 AM

LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL OFFICE 250 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NWSX PDT LV DX WH
1	NPP16 PL T24
1	NCM ADCX

LITHONIA EMBEDDED CONTROLS
TYPICAL LARGE OFFICE 500 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPODM DX WH
1	NPP16 PL T24
1	NCM PDT 9

LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL BOARD ROOM 2000 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
2	NCM PDT 10
1	NPP16 PL T24
1	NCM ADCX DZ

nPOD GFX WH

nPOD GFX — PS 100 — HOT, NEUTRAL, RED, BLACK

LITHONIA EMBEDDED CONTROLS
TYPICAL OFFICE 250 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NWSX PDT LV DX WH
1	NPP16 PL T24

LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL CONFERENCE ROOM 1000 SQUARE FEET
NOT TO SCALE

nPOD GFX WH

nPOD GFX — PS 100 — HOT, NEUTRAL, RED, BLACK

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
2	NCM PDT 9
1	NPP16 PL T24
1	NCM ADCX DZ

LITHONIA EMBEDDED CONTROLS
TYPICAL BOARD ROOM 2000 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
2	NCM PDT 10
1	NPP16 PL T24
3	NCM PDT 10

nPOD GFX WH

nPOD GFX — PS 100 — HOT, NEUTRAL, RED, BLACK

LITHONIA EMBEDDED CONTROLS AND DAYLIGHT HARVESTING
TYPICAL LARGE OFFICE 500 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPODM DX WH
1	NCM PDT 9
1	NPP16 PL T24
1	NCM ADCX DZ

nPOD GFX WH

nPOD GFX — PS 100 — HOT, NEUTRAL, RED, BLACK

LITHONIA EMBEDDED CONTROLS
TYPICAL CONFERENCE ROOM 1000 SQUARE FEET
NOT TO SCALE

AcuityBrands.

nLIGHT LIGHTING CONTROLS BLOCK DIAGRAM LEGEND

- CLASS II LV CONDUCTORS
- 0-10V DIMMING CONNECTION
- 0-10V DIMMING CONNECTION
- CAT 5 CABLE
- CLASS I LINE VOLTAGE CONDUCTORS

BILL OF MATERIAL

QTY	PRODUCT #
1	NPOD GFX WH
1	NPP16 PL T24
2	NCM PDT 9

CA TITLE 24 DESIGN GUIDE

< 250 SQUARE FOOT OFFICE

- ✓ SWITCH WITH ON/OFF RAISE/LOWER *per section 130.1(A)
- ✓ RELAY MODULE WITH ON/OFF DIMMING 0-10v *per section 130.1(B)
- ✓ OCCUPANCY SENSOR *per section 130.1(C)
- ✓ DAYLIGHT HARVESTING *per section 130.1(D)
- ✓ AUTOMATIC DEMAND RESPONSE *per section 130.1(E)
- ✓ PLUG LOAD CONTROL *per section 130.5 (D)

BILL OF MATERIAL

QTY	PRODUCT #	DESCRIPTION
1	nPODM 2P DX WH	2 CHANNEL ON/OFF TOGGLE WITH DIMMING
2	nPP16 D	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL; CHASE NIPPLE MOUNTING
1	nPP16 PL T24	16 AMP RELAY PACK FOR PLUG LOAD CONTROL; CHASE NIPPLE MOUNTING
1	nCM PDT 9 ADCX	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT): PHOTOCELL W/ DIMMING (NO WIRES)

NOTES
1) OFFICE IS BASED OFF A 15X16 SQ.FT. OFFICE (240 SQFT).

2) IF TOTAL BUILDING SQUARE FOOTAGE IS >10,000 SQ.FT. AUTOMATIC DEMAND RESPONSE IS REQUIRED FOR 2013 T24.*per section 130.1(E)

3) PRODUCTS CAN MEET ANY AND ALL T24 REQUIREMENTS, MUST BE CONFIGURED APPROPRIATELY.

FOR HELP WITH A 2013 T24 LAYOUT CONTACT- MAR VISTA SALES INC.
1845 KNOLL DRIVE
VENTURA, CA
(805) 642-7714

AcuityBrands.

LC & D – ROAM – SENSOR SWITCH – SYNERGY

Roesling Nakamura Terada Architects
285 N Ventura Ave #102
Ventura, CA 93001
P805.626.5330
F805.626.5350
www.RNTarchitects.com

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LUCCI & ASSOCIATES INC
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Web Site http://www.lucciland.com

REGISTERED PROFESSIONAL ENGINEER — KENNETH W. LUCCI — No. E 5340 — Exp. 09/30/2020 — ELECTRICAL — STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

nLIGHT ROOM LAYOUTS

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI

Sheet Number

E300B

L.A.I.# 17426 PAPER SIZE 36"x24"

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nLIGHT

Catalog Number | Date | Type

nWSX LV / nWSX PDT LV

WALL SWITCH SENSOR • LOW VOLTAGE
PASSIVE INFRARED (PIR) or DUAL TECH. (PDT)

nWSX LV · nWSX PDT LV · nWSX SP LV · nWSX PDT SP LV

PRODUCT OVERVIEW

The **nWSX LV / nWSX PDT LV** Series of wall mounted occupancy sensor provides a simple control solution for a small room, in particular one utilizing 0-10V enabled digital ballasts. Capable of detecting small motion up to 20 ft (6.1m), this sensor is perfect for private offices, private rest rooms, copy rooms, closets or any small enclosed space. The **nWSX LV** uses Passive Infrared (PIR) detection while the **nWSX PDT LV** utilizes PIR/Microphonic Dual Technology (PDT). This stylish sensor can be programmed locally, via the free 'push-button-tools', or remotely via the nLight Sensorview software. The **nWSX LV/nWSX PDT LV** includes an integrated photocell (adjustable to default).

SENSOR OPERATION — The sensor detects changes in the infrared energy given off by occupants and/or changes in the acoustic energy in the room. Upon detecting a change, the sensor will transmit enabled devices to switch connected lighting loads(i.e. Sensors with Passive Dual Technology (PDT) first use motion using Passive Infrared (PIR) and then engage Microphonics to hear sounds that indicate continued occupancy. This patented technology dynamically adapts a sensor to its environment by filtering out constant background noise and detecting only nature typical of human activity. A factory set timeout time delay of 10 minutes keeps the sensor in the occupancy state during brief periods of inactivity. The time delay is most every time occupancy is re-detected. The sensor requires no field calibration or sensitivity adjustments.

nLIGHT OPERATION — The **nWSX LV/nWSX PDT LV** is nLight enabled (networking) it is individually addressable and communicates digitally over an nLight network to integrate with other nLight enabled devices, such as wall switches, sensors, and photocells. Powered by a local power pack, the sensor can communicate digitally, digital scenes, and other messages. All devices are wired using CAT-5e cabling, creating a local nLight control zone. Once linked in an nLight Gateway, either directly or via an nLight network backbone, the zone becomes capable of remote status monitoring and control with nLight Sensorview software.

STANDALONE OPERATION with DIGITAL LUMINAIRES — When connected directly to an nLight enabled luminaire, the **nWSX LV/nWSX PDT LV** (all models provide occupancy, photocell, manual on/off switching, and continuous natural lower dimming control. This solution requires a single CAT-5e cable between the device and luminaire; no dimming wires, relays, or low power supply required.

OPTIONS

WIRED SMART ONLY — Adds wires LED night light

DIMMING CONTROL (DS) — Enables non/lower control of any nLight device with a dimming output (e.g. nBX, nRTU, ecPX PX3, nWallPod, & digital luminaires with nLight enabled drivers)

LOW TEMPERATURE / HIGH HUMIDITY OPTION (LT)
- Device electronics are coated for corrosion resistance - required for cold storage or humid areas
- Operates down to -40º F (-40º C) / 20º C to 70º C

SPECIFICATIONS

PHYSICAL
SIZE: 1.5"H x 1.38"W x 1.07"D (3.96 cm x 3.27 cm x 3.4 cm)
WEIGHT: 2 oz
MOUNTING: Single-Gang Switch Box or Low Voltage Ring

ELECTRICAL
nLIGHT BUS POWER CONSUMPTION: <5 mA
WIRES: None

ENVIRONMENTAL & OTHER
OPERATING TEMP: 10º to 150º F (-10º to 71º C)
RELATIVE HUMIDITY: 20 to 90% non-condensing
SILICONE FREE, ROHS COMPLIANT
TITLE 24
ASTM6,8,D0 in U.S.A.
5 YEAR WARRANTY

ORDERING LOGIC

Series	Night Light or Dimming	Color	Temp / Humidity
nWSX LV Passive Infrared nWSX PDT LV Dual Technology	Blank None NL Integrated Night Light DS Dalum/Lower Dim Control	WH White IV Ivory GY Gray AL LL Almond	Blank Standard LT Low Temp/ High Humidity

Example: nWSX PDT LV DS WH

Sensor Switch 900 Northrop Road, Wallingford, CT 06492 Phone: 1-800.PRESENS sensorswitch.com/nlight ©2013 Acuity Brands Lighting, Inc. All rights reserved 01/04/13 1 of 2

ncM PDT 9

STANDARD RANGE 360° SENSOR
CEILING MOUNT • LOW VOLTAGE • DUAL TECHNOLOGY (PDT)

SPECIFICATIONS

FEATURES
Patented Dual Technology with PIR / Microphonics Detection
360° Small Motion Coverage
Programmable Time Delay Network Integrated On/Off Photocell
Remotely Configurable/Upgradeable Push-Button Programmable
Adjustable Time Delay
Test Mode (Walk Test & Timer)
Green LED Indicator

PHYSICAL SPECS
SIZE: 4.50" Dia. (11.50 cm)
1.55" Deep (3.94 cm)
WEIGHT: 5 oz
MOUNTING:
Ceiling Or Surface
3.5" Octagon Box
Single Gang Handy Box
COLOR: White
nLIGHT NETWORK PORTS: 2 RJ-45

ELECTRICAL SPECS
POWER CONSUMPTION: < 3 mA
DIMMING LOAD (ADC version):
Sinks < 20mA
>40 Ballasts/Drivers @ .5mA each

ENVIRONMENTAL SPECS
OPERATING TEMP:
-10º to 150º F (-23º to 71º C)
RELATIVE HUMIDITY:
20 to 90% non-condensing
SILICONE FREE
ROHS COMPLIANT

OTHER
UL and CUL Listed
Title 24 Compliant
5 Year Warranty
Assembled in the U.S.A.

OVERVIEW
Open area office lighting control is made cost effective with the use of the **ncM PDT 9** which can change 360° of occupancy sensor. This small, sleek, ceiling mount provides line of sight PIR detection of small motion in a circular pattern and combines overlapping Microphonics™ coverage for detection of occupancy in their cubical space. By installing multiple **ncM PDT 9s** on 30 ft (9.14 m) centers, large zones are created (typically one per circuit of lighting). The ncM PDT 9 can be mounted in fixture stems or mounted directly to ceiling. Restrooms with stalls, large storage areas with shelving, and libraries with study carrels are also easily and cost effectively controlled by the **ncM PDT 9**.

SENSOR OPERATION
Sensors with Passive Dual Technology (PDT) first use motion using Passive Infrared (PIR) detection and then engage Microphonics™ to hear sounds that indicate continued occupancy. This patented technology uses Automatic Gain Control (AGC) to dynamically self adjust a sensor to its environment by filtering out constant background noise and registering only noises typical of human activity. Once occupancy is detected, a relay located elsewhere within the sensor's zone is signaled to switch the line voltage lighting load on. An internal time delay, factory set at 10 minutes, keeps the sensor in the occupancy state during brief periods of inactivity. The timer is adjustable, and is reset every time occupancy is re-detected. This state-of-the-art sensor requires no field calibration or adjustment.

ONOFF PHOTOCELL OPERATION
As a standard feature, these sensor have an integrated on/off photocell. This photocell can provide two types of operation. The first mode provides increased energy savings by switching lights off during occupied periods with sufficient daylight contribution. The second mode will prevent lights from initially turning on if adequate daylight is present, but won't switch them off once the lights are on. All on/off photocell operation is disabled by default.

nLIGHT OPERATION
This sensor is a native nLight device, meaning it has the ability to communicate over an nLight network. When delay-shaft wired, using CAT-5e cabling, with other nLight sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software.

OPTIONS

AUTOMATIC DIMMING CONTROL PHOTOCELL (ADCR / ADC)
- Photocell within sensor maintains total room light level by automatically dimming ballasts/drivers to a set point
- Typically used with remote nLight devices with dimming outputs (e.g. nSD LED, nBPS DL, nBPS PCO, nBPPS DL, nPANEL, etc)
- Includes a second time-out period that enables the lights to go to a dim setting before turning off
- Follows dimming commands from nLight WallPod dimmer or nLight Sensorview
- ADC version adds 20 AWG wires (dim output) and gray (common) wires, & 10 AWG green ground wire

LOW TEMP/HIGH HUMIDITY (LT)
- Sensor electronics are coated for corrosion resistance.
- Operates down to -4º F (-20º C).
- Required for bathrooms & cooler/ freezer applications.

ORDERING INFO

ncM PDT 9 [DAYLIGHTING] [TEMP/HUMIDITY]

DAYLIGHTING	TEMP/HUMIDITY
Blank = None ADCR = Auto Dimming Control Photocell (no wires) ADC = Auto Dimming Control Photocell (with 6-10 VDC wires)	Blank = Standard LT = Low Temp

OPTIONS

Sensor Switch 900 Northrop Road, Wallingford, CT 06492 Phone: 1-800.PRESENS sensorswitch.com/nlight ©2014 Acuity Brands Lighting, Inc. All rights reserved 01/14/14 1 of 3

nPP16 FAMILY

POWER / RELAY PACK w/ OPTIONAL DIMMING and EMERGENCY OPERATION

Model #: nPP16 (D) Model #: nPP16 (D) ER

KEY OPTIONS

DIMMING CONTROL (D, DS)
- Provides dimming outputs to control 0-10 VDC dimmable ballasts or LED drivers
- Follows dimming commands from nLight dimming WallPods, Photocells, Sensor Controllers, and/or Sensorview software
- Adds 120/277 VAC control inputs (grey wires through chase nipple (D option) or via a quick-connect cable (DS option)
- Isolated dimming circuitry provides robust network protection from ingress noise or line voltage faults

EMERGENCY OPERATION (ER)
- Controls luminaires powered via an emergency circuit
- Wired Latched
- Monitors normal power and overrides relay closed and sets dimming output (if present) to full (edge) if normal feed is lost regardless of current state or user status

DEFAULT MODE (SA, SA2, SW2, PL1 TA)
- SA option changes default operating mode to Manual On/Auto Off
- SA2 and SW2 change default switch tracking channel to 2
- PL TA option changes default operation to track only occupancy sensors (not switches or photocells)

247 VAC (247)
- Allows unit to be powered from and switch 347 VAC.

LOW TEMP/HIGH HUMIDITY (LT)
- Device electronics are coated for corrosion resistance - required for cold storage or humid areas
- Unit operates down to -40º F/C

OPERATIONAL SETTINGS

Several operational settings for the **nPP16** family are available, including:
- Override (On/Off/Manual) & Relay Set Mode (Enable/Disable)
- Occupancy, Photocell, & Switch Tracking (Enable/Disable)
- Occupancy, Photocell, & Switch Tracking Channel (1-16 each)
- Idle Time to Dim
- Special Operating Modes:
  - Manual On to Auto Off (Event Auto), Auto to (Timed) Override On, Manual to (Timed) Override On, Manual On to Hold Auto, Predictive Off
- Occupancy Expiration of Manual Off / Timed Expiration of Manual Off
- Maintain Dim Level When Vacant
- Occupied Bright Level & Unoccupied Dim Level
- High Bold & Low Dim Time

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nPP16 Power / Relay Pack

SPECIFICATIONS

ELECTRICAL SPECS
OPERATING VOLTAGE:
120/277 VAC
347 VAC (with -347 option)
MAX LOAD: (No derating necessary)
120 VAC: 1HP, 16A, 1920W
347 VAC (with -347 option)
MAX BALLAST/CFL LOAD: 16A
MOTOR LOAD: 1 HP
RELAY TYPE: Latching
FREQUENCY: 50/60 Hz
BUS OUTPUT CURRENT/VOLTAGE:
40mA / port @ 15 VDC
(max 80 units per port)
MAX DIMMING LOAD (with -D option):
Sinks 100 mA; 9-10 VDC dimmable ballasts or LED drivers
nLIGHT NETWORK PORTS: (2) RJ-45

PHYSICAL SPECS
SIZE: (not incl. 1/2" chase nipple)
3.38" H x 2.57" W x 1.87" D
(8.59 cm x 6.45 cm x 4.82 cm)
WEIGHT: 6 oz
MOUNTING: 1/2" knockout.
1/2" flexible conduit
COLOR:
White (Standard)
RED (-ER versions)
BLUE (-PL TA versions)

ENVIRONMENTAL SPECS
OPERATING TEMP:
Standard: 14º to 122º F (-10º to 50º C)
LT Option: -40º to 122º F (-40º to 50º C)
RELATIVE HUMIDITY:
20 to 90% non-condensing
Optional: 20 to 90% non-condensing
ROHS COMPLIANT
SILICONE FREE

ORDERING INFORMATION

nPP16

Series	Dimming	Emergency	Default Mode
nPP16 Power/Relay Pack	None D 0-10 VDC Dimming Output (six chase nipples)	None ER 20 Min Emergency Operation	(Blank) Auto On (Switch Ch. 1) SA2 Auto On (Switch Ch. 2) SW2 Manual On (Switch Ch. 2) PL TA Occ. only (Switch Ch. 1) (CA-Cat Plug Load)

Voltage	Temp/Humidity
(Blank) 120/277 VAC 347 347 VAC	(Blank) Standard LT Low Temp

Note: For information on current monitoring relay packs, see the nPP16-M series datasheet.

Acuity Brands. Expanding the boundaries of lighting™

UL 916 ENERGY MANAGEMENT EQUIPMENT ASSEMBLED in U.S.A.

WARRANTY
5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Sensor Switch 900 Northrop Road, Wallingford, CT 06492 Phone: 1-800.PRESENS sensorswitch.com/nlight ©2014 Acuity Brands Lighting, Inc. All rights reserved 01/14/14 3 of 3

nLIGHT AIR rPODM

Wallpod: On/Off & On/Off+Relay/Lower

OVERVIEW

The nPODM Series WallPods are nLight-enabled toggle and/or raise/lower switches that provide a user with local control of a lighting zone. These single-gang decorator style devices have soft-click buttons and have a green LED indicator for each button. WallPods communicate with other nLight devices via a CAT-5e cable that connects to one of its two RJ-45 connectors. A basic low voltage WallPod can work with an nLight power pack or nLight enabled fixture to provide toggle switch operation. WallPods with the DS option have the added ability to adjust the level of any nLight controlled dimmable lighting.

FEATURES
- Communicates with nLight network
- Remotely configurable/upgradeable
- Soft-click push-button control
- Custom button engraving at no charge (WH, IV, AL OV units only)
- 1, 2, or 4 button/led
- 1, 2, or 4 channel scan/lower
- "Dynamic" options for custom button names when pairing with Acuity Brands nTUNE fixtures

SPECIFICATIONS

Size: (not including ground strap) 2.74" H x 1.68" W x 1.62" D (6.96 cm x 4.27 cm x 4.14 cm)
Weight: 2 oz
Mounting: Single Gang Switch Box or Low Voltage Ring
Color: White, Ivory, LL Almond, Gray, Black
nLight Network Ports: 2 RJ-45
Power Consumption: < 5 mA
Wires: None
RoHS Compliant, Title 24 System Component

Warranty
Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/customerresources/terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

ORDERING INFORMATION

nPODM Example: nPODM 2P WH

Series	Preset Type	Dimming Control	Dynamic	Color	Temp/Humidity
nPODM	1P One-Button 2P Two-Button 4P Four-Button	(Blank) Single-channel Dimmer DX On/off + raise/lower control	(Blank) Standard CCT Cool/warm color temperature GRSCT Grayscale COLOR Color control	WH White IV Ivory GY Gray AL Almond BK Black RD Red	(Blank) Normal LT Low temp

CUSTOM BUTTON ENGRAVING
- Standard button labeling is shown on back.
- Custom lettering for WH, IV, AL, and GY units can be specified and ordered at no charge at: http://www.acuitybrands.com/product/media/files/AcuityBrands/Controls/Light/NLIGHT/PDF/Series
- To ensure color uniformity, ordering templates facilitate specifying all buttons on a unit as custom lettered. Replacing single buttons not recommended.
- Buttons may ship separately and require field installation

Notes
1. Only available on 2P DX configurations

Acuity Brands | One Lithonia Way Conyers, GA 30012 Phone: 800.535.2465 www.acuitybrands.com © 2014-2016 Acuity Brands Lighting, Inc. All rights reserved. Rev 09/15/16 nPODM 1 of 3

nLIGHT nWSX LV / nWSX PDT LV Wall Switch Sensor

COVERAGE PATTERN

- Small Motion (e.g. hand movements) detection up to 20 ft (6.10 m)
- Large motion (e.g. walking) detection greater than 30 ft (9.07 m)
- Wide Wall Coverage
- Passive Dual Technology (Microphonics) provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is utilized to prevent non-occupant noises from keeping the lights on.

TYPICAL WIRING DIAGRAMS

Sensor power is provided to the CAT-5e connection to an nLight power pack/supply, nLight enabled digital luminaire, or nLight Bridge. TS505 plug-in pack assignment is recommended for CAT-5e cables.

SINGLE LOAD SWITCHING
3-WAY SWITCHING AND DIMMING CONTROL
BLK - 120 V
ORN - 277 V
LOAD
Positive nLight devices (optional)
Common
Dim Common
0-10V Dim Leads (Blue and Gray)
Dim Common (optional)
Dim Leads (optional)
Dim Common (optional)
Dim Leads (optional)
Dim Common (optional)
Dim Leads (optional

Schedule

Symbol	Label	QTY	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wa
	F1	19	MLHA8-48-F-MW-CP-1-45L40K-DCC-1-DV	Millenium Stretch 8"	LED 4000K	144	39	0.95	5
	F2	7	MLHA8-24-MW-PP-25L40K-DCC-DV	MLHA8-24 Series	LED 4000K	72	35	0.95	
	F3	4	FWSL-650L-40K-1C-120-LD1-U-WH 6FT	White enamel aluminum housing, frosted plastic lens, white enamel aluminum reflector	LED 4000K	1	3864	0.95	4

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ACCESSIBLE TOILET 101	+	11.1 fc	14.6 fc	1.1 fc	13.3:1	10.1:1
ACCESSIBLE TOILET 113	+	10.6 fc	14.0 fc	1.1 fc	12.7:1	9.6:1
BOYS LOCKER ROOM	+	28.1 fc	44.7 fc	13.2 fc	3.4:1	2.1:1
CUSTODIAN	+	18.2 fc	20.9 fc	14.8 fc	1.4:1	1.2:1
GIRLS LOCKER ROOM	+	27.9 fc	45.4 fc	13.5 fc	3.4:1	2.1:1
OFFICE 100	+	22.6 fc	25.2 fc	20.7 fc	1.2:1	1.1:1
OFFICE 112	+	22.8 fc	25.3 fc	19.6 fc	1.3:1	1.2:1
STORAGE 115	+	17.8 fc	21.9 fc	13.5 fc	1.6:1	1.3:1
STORAGE 116	+	27.7 fc	33.9 fc	19.9 fc	1.7:1	1.4:1

SCALE: 1/4"=1'-0"
0 2' 4' 8'

FIRST FLOOR LIGHTING PHOTOMETRIC PLAN 1 E302
SCALE: 1/4"=1'-0"

Roesling Nakamura Terada Architects
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Ventura, CA 93001
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CAMARILLO, CA 93012-8094
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Web Site http://www.lucciland.com

REGISTERED PROFESSIONAL ENGINEER KENNETH M. LUCCI No. E 5340 Exp. 09/30/2020 ELECTRICAL STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

FIRST FLOOR LIGHTING PHOTOMETRIC PLAN

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI

Sheet Number

E302

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F1

MILLENIUM STRETCH™

MLHA8 SERIES

PRODUCT FEATURES:
- Surface mount – wall or ceiling; nominal 6" x 24", 8" x 36", 8" x 48", 8" x 72", 8" x 96"
- Extruded aluminum housing with decorative end caps
- Peace of Mind Guarantee® against breakage
- ADA compliant

PROJECT INFORMATION

Job Name: _____
Fixture Type: _____
Catalog Number: _____
Approved by: _____

SPECIFICATIONS

HOUSING: Marine grade aluminum. Extruded body with die-cast end caps. Housing, with end caps, post assembly TGIC polyester powder coat finished – 5-step pre-treatment. See Ordering information for standard, optional, architectural and custom finishes.

REFLECTOR: Full reflector/wide cover – 92% reflectivity.

LENS: UV-stabilized, high impact extruded clear or prismatic polycarbonate. Smooth exterior, linear prismatic interior. Nominal thickness .196". Lens securely positioned in body channels and end caps. Lens locked in place with tamper-resistant stainless steel Torx® anti-center pin fasteners and sealed with closed cell gaskets.

END CAPS: Marine grade die-cast aluminum. Three style available: Flat, Rounded and Reveal. Conduit and "Wireless" ready® knockouts visible only from interior of end cap (Flat and Rounded styles only).

SOCKETS: Shock-resistant sockets with internal locking collar to ensure positive lamp retention.

HARDWARE: Stainless steel, tamper-resistant Torx fasteners secure lens in housing body's lens channel (four on 24", 36", and 48" housings; eight on 72" and 96" housings).

ELECTRICAL: LED: Available 3500K, 4000K, and 5000K color temperatures, 82 CRI, 120-277VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant current driver (≥ 20% THD, ≥ 0.95 PF). Standard 0-10V dimming with 1-100% range, maximum driver source of 500 µA. Optional embedded microwave motion sensor (MS) has factory default settings of 20 minute time-out, dims down to 30%. LT: Class P Ballasts. Fluorescent electronic 1.20/277/347 and dual voltage ballasts high power factor.

INSTALLATION: Standard fixture joint 24" housing, six-point (36" and 48" housing) and twelve-point (72" and 96" housing) mounting required for Peace of Mind Guarantee®. LED product ambient temperature is -30°C to 40°C, unless otherwise noted.

TEKLINE™ TLS10: An independent lighting control system embedded in the luminaire, featuring its own occupancy sensor, daylight harvesting and adjustable time-out/dimming settings.

TEKLINE™ TL100: Centralized, wired zone occupancy and closed-loop daylight harvesting control system. TL100 controllers are standalone devices and ordered separately for luminaire. Click here for specifications

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an IAC/ISO 17025 accredited laboratory. For additional photometric information, go to www.kenall.com.

WARRANTY: Limited ten (10) year warranty for LED Lamps.

LISTINGS: UL and CUL listed for Wet Location – covered ceiling mount. UL certified IP66 in compliance with IEC 60598 – ceiling mount. Corner, horizontal wall and pendant mount installation – damp location only. ADA compliant. Approved by the New York State – Office of Mental Health.

In Stock Sku
ML14A8-F-MB-PP-3-32K8-Ldv
ML14A8-F-MB-PP-3-32-K8-5K-Ldv

ORDERING INFORMATION (Ex: ML14A8-48-F-MB-PP-4-5LL40K-DCC-DV-F5-9500)

Catalog Number	Length	End Cap	Finish	Lens	Lamp Qty	Lamp Type	Ballast/Driver	Circuit/Qty	Voltage	Options	Accessories	Tekline	Controls Kit
MLHA8													< >

Length
14 2'
24 2'
48 4'
72 Two 3' (factory connected)
96 Two 4' (factory connected)

End Caps
F Flat
R Rounded
RV Reveal

Finish
LG Light Gray
MB Matte Black
MW Matte White
CC Custom Color (contact factory)

Lens
CPo Clear Polycarbonate
PP Prismatic Polycarbonate

Lamp Quantity (Cross Section) (Orientation)
1 One
2 Two
3 Three (T8 or T5 only)

Lamp Type
2' Lengths
2SL30K 25 Watt 3500K LED
2SL40K 25 Watt 4000K LED
2SL50K 25 Watt 5000K LED
14 T14T5 (rapid start only)
17 T17T8
24* T24T5/HO (rapid start only)

5' Lengths
21 T21T5 (rapid start only)
25 T25T8
39 T39T5/HO (rapid start only)

4' Lengths
4SL35K 45 Watt 3500K LED
4SL40K 45 Watt 4000K LED
4SL50K 45 Watt 5000K LED
6SL35K 67 Watt 3500K LED
6SL40K 67 Watt 4000K LED
6SL50K 67 Watt 5000K LED
9SL40K 90 Watt 4000K LED
9SL50K 90 Watt 5000K LED
32 T32T5 (rapid start only)
32 T32T8
54 T54T5/HO (rapid start only)
54A T54T5/HO amalgam (rapid start only)

Ballast/Driver Type
IS Instant Start Electronic (< 10% THD (T8))
RS Rapid Start Electronic (< 10% THD (T8, T5HO))
DCC Dimming Constant Current (LED)

Circuit Quantity (n/a with LED)
1 One
21 Two (2 Ballast minimum)

Voltage
120 120 Volts
277 277 Volts
347 347 Volts (Canada Factory)
DV 120-277 Volts

Options
EL** 500 lm/min Lumen Battery Pack (90 Minutes; 32°F Starting Temp)
PEL** 1100 lm/min Lumen Battery Pack (90 Minutes; 32°F Starting Temp)
LEL LED Emergency Battery Backup (4' only) (45L max, 32°F minimum operating temperature)
CDF Captive Diffuser Fasteners
DL Dawn Location (Interior use NO guarantee)
PS Single Fuse & Holder (one per circuit)
NBUTS Nubatorium Environment Option
PH Philips Hue Fixtures
PWS § Pendant Mounts (stems by others; damp only)
TNL* Twin Tube Night Light – 5/29 watts (120V only)

Options (continued)
UCL* Uplight Component (Pendant Mount only; stems by others; damp only)
MS Motion Sensor (2' and 4' LED only) (use with 347 Voltage Option)

Accessories
C18B1 Corner Mount Bracket (Must be ordered with DL Option)
9500 Torx® Screwdriver
D-8552 Torx Driver Bit (Required for CH9 Option)

Teki ink
TLS10 TLS10 Control System (Click here for specifications)
TL100 TL100 Control System (Click here for specifications)

Please consult Kenall Applications when ordering controls. Mounting heights above 14' may require alternate sensing technology.

Controls Kit
< > Factory Assigned Internal Code
1 n/a on 2' T5/T5HO or 3' T5HO fixtures with EL, PEL or TN options
* n/a with 347V
* 2' Fixtures have minimum 350-450 lumen battery pack
* n/a on 2' fixtures
§ n/a with 3 lamps
* n/a with LED Lamp Type
1 PH and CH10 not available in conjunction

KENALL www.kenall.com P: 800-6-Kenall F: 262-891-9701 16200 55th Street Kenosha, Wisconsin 53144

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ML14A8-012418

F2

MILLENIUM STRETCH™

MLHA8 SERIES

PRODUCT FEATURES:
- Surface mount – wall or ceiling; nominal 8" x 24", 8" x 36", 8" x 48", 8" x 72", 8" x 96"
- Extruded aluminum housing with decorative end caps
- Peace of Mind Guarantee® against breakage
- ADA compliant

PROJECT INFORMATION

Job Name: _____
Fixture Type: _____
Catalog Number: _____
Approved by: _____

SPECIFICATIONS

HOUSING: Marine grade aluminum. Extruded body with die-cast end caps. Housing, with end caps, post assembly TGIC polyester powder coat finished – 5-step pre-treatment. See Ordering information for standard, optional, architectural and custom finishes.

REFLECTOR: Full reflector/wide cover – 92% reflectivity.

LENS: UV-stabilized, high impact extruded clear or prismatic polycarbonate. Smooth exterior, linear prismatic interior. Nominal thickness .196". Lens securely positioned in body channels and end caps. Lens locked in place with tamper-resistant stainless steel Torx® anti-center pin fasteners and sealed with closed cell gaskets.

END CAPS: Marine grade die-cast aluminum. Three style available: Flat, Rounded and Reveal. Conduit and "Wireless" ready® knockouts visible only from interior of end cap (Flat and Rounded styles only).

SOCKETS: Shock-resistant sockets with internal locking collar to ensure positive lamp retention.

HARDWARE: Stainless steel, tamper-resistant Torx fasteners secure lens in housing body's lens channel (four on 24", 36", and 48" housings; eight on 72" and 96" housings).

ELECTRICAL: LED: Available 3500K, 4000K and 5000K color temperatures, 82 CRI, 120-277VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant current driver (≥ 20% THD, ≥ 0.95 PF). Standard 0-10V dimming with 1-100% range, maximum driver source of 500 µA. Optional embedded microwave motion sensor (MS) has factory default settings of 20 minute time-out, dims down to 30%. LT: Class P Ballasts. Fluorescent electronic 1.20/277/347 and dual voltage ballasts high power factor.

INSTALLATION: Standard fixture joint 24" housing, six-point (36" and 48" housing) and twelve-point (72" and 96" housing) mounting required for Peace of Mind Guarantee®. LED product ambient temperature is -30°C to 40°C, unless otherwise noted.

TEKLINE™ TLS10: An independent lighting control system embedded in the luminaire, featuring its own occupancy sensor, daylight harvesting and adjustable time-out/dimming settings.

TEKLINE™ TL100: Centralized, wired zone occupancy and closed-loop daylight harvesting control system. TL100 controllers are standalone devices and ordered separately for luminaire. Click here for specifications

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an IAC/ISO 17025 accredited laboratory. For additional photometric information, go to www.kenall.com.

WARRANTY: Limited ten (10) year warranty for LED Lamps.

LISTINGS: UL and CUL listed for Wet Location – covered ceiling mount. UL certified IP66 in compliance with IEC 60598 – ceiling mount. Corner, horizontal wall and pendant mount installation – damp location only. ADA compliant. Approved by the New York State – Office of Mental Health.

In Stock Sku
ML14A8-F-MB-PP-3-32K8-Ldv
ML14A8-F-MB-PP-3-32-K8-5K-Ldv

ORDERING INFORMATION (Ex: ML14A8-48-F-MB-PP-4-5LL40K-DCC-DV-F5-9500)

Catalog Number	Length	End Cap	Finish	Lens	Lamp Qty	Lamp Type	Ballast/Driver	Circuit/Qty	Voltage	Options	Accessories	Tekline	Controls Kit
MLHA8													< >

Length
24 2'
36 3'
48 4'
72 Two 3' (factory connected)
96 Two 4' (factory connected)

End Caps
F Flat
R Rounded
RV Reveal

Finish
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MB Matte Black
MW Matte White
CC Custom Color (contact factory)

Lens
CPo Clear Polycarbonate
PP Prismatic Polycarbonate

Lamp Quantity (Cross Section) (Orientation)
1 One
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3 Three (T8 or T5 only)

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24* T24T5/HO (rapid start only)

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25 T25T8
39 T39T5/HO (rapid start only)

4' Lengths
4SL35K 45 Watt 3500K LED
4SL40K 45 Watt 4000K LED
4SL50K 45 Watt 5000K LED
6SL35K 67 Watt 3500K LED
6SL40K 67 Watt 4000K LED
6SL50K 67 Watt 5000K LED
9SL35K 90 Watt 3500K LED
9SL40K 90 Watt 4000K LED
9SL50K 90 Watt 5000K LED
28 T28T5 (rapid start only)
32 T32T8
54 T54T5/HO (rapid start only)
54A T54T5/HO amalgam (rapid start only)

Ballast/Driver Type
IS Instant Start Electronic (< 10% THD (T8))
RS Rapid Start Electronic (< 10% THD (T8, T5HO))
DCC Dimming Constant Current (LED)

Circuit Quantity (n/a with LED)
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21 Two (2 Ballast minimum)

Voltage
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277 277 Volts
347 347 Volts (Canada Factory)
DV 120-277 Volts

Options
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PEL** 1100 lm/min Lumen Battery Pack (90 Minutes; 32°F Starting Temp)
LEL LED Emergency Battery Backup (4' only) (45L max, 32°F minimum operating temperature)
CDF Captive Diffuser Fasteners
DL Dawn Location (Interior use NO guarantee)
PS Single Fuse & Holder (one per circuit)
NBUTS Nubatorium Environment Option
PH Philips Hue Fixtures
PWS § Pendant Mounts (stems by others; damp only)
TNL* Twin Tube Night Light – 5/29 watts (120V only)

Options (continued)
UCL* Uplight Component (Pendant Mount only; stems by others; damp only)
MS Motion Sensor (2' and 4' LED only) (use with 347 Voltage Option)

Accessories
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9500 Torx® Screwdriver
D-8552 Torx Driver Bit (Required for CH9 Option)

Teki ink
TLS10 TLS10 Control System (Click here for specifications)
TL100 TL100 Control System (Click here for specifications)

Please consult Kenall Applications when ordering controls. Mounting heights above 14' may require alternate sensing technology.

Controls Kit
< > Factory Assigned Internal Code
1 n/a on 2' T5/T5HO or 3' T5HO fixtures with EL, PEL or TN options
* n/a with 347V
* 2' Fixtures have minimum 350-450 lumen battery pack
* n/a on 2' fixtures
§ n/a with 3 lamps
* n/a with LED Lamp Type
1 PH and CH10 not available in conjunction

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ML14A8-012418

F3

Focus™ Wall Wash

LED

FOCAL POINT

DIMENSIONAL DATA

Grid Ceiling Shown

Mounting Details

FEATURES

Low profile LED wall wash provides a glowing transition between wall and ceiling and shadow-free illumination.

Housing creates 6" architectural slot with extruded splay to conceal light source from view.

Infinite lengths with the ability for pattern creation with 90° inside and outside corners.

Ease of installation and maintenance with rough-in housing and separate snap and lock LED light module.

Integrated sliding sleeve extends to meet precise dimensions of a finished space with +/- 2" adjustment.

Preferred Light: Lighting for better color rendition and human preference.

PERFORMANCE

Focal Point LLC | 191 S. Pulaski Rd. Chicago, IL 60624 | 773-217-0404 | hello@focalpoint.com | www.focalpoint.com

November 2017 D

PATTERN CONFIGURATIONS (continued on page 3)

Wall-to-wall dimensions required. Integrated sliding sleeve accommodates +/-2" minimum field adjustment of luminaire.

SPECIFICATIONS

LED System
Proprietary linear LED module incorporates premium LEDs on a raised platform to achieve excellent thermal management. Module is available in 2700K, 3000K, 3500K or 4000K with CRI > 80. LED module and driver are replaceable from below.

Construction
One-piece, 22Ga. steel rough-in housing powder coated in matte satin white. Housing includes extruded splay in a matte satin white finish and steel alignment bracket. Light engine module constructed with 22Ga. steel and finished in matte satin white. Light engine mounts to installed after rough-in housing installation. Inaccessible corners and sliding sleeve fabricated with 22Ga. steel and include extruded aluminum splay.

Optic
Semi-specular aluminum optical reflector with .030" thick diffuser lens.

Electrical
Light engine module includes driver and wiring harness. Single power drop can power up to 40' or more in a single run. Galvanized feed box with access plate provided for every start of run luminaire and installed in the field. Emergency circuit feed locations are field located by positioning of feed box. Standard 120-277V driver includes 0-10V analog dimming. Power factor > .9.

Labels
UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only. Suitable for wood ceiling applications.

Emergency Battery
Bodine BSL-330LP. Emergency output for 90 minutes. Maximum mounting height 12ft

Finish
Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance
Reported: L70 at >60,000 hours Calculated: L70 at 95,000 hours
Derived from IPM TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty
LED system rated for operation in ambient environments up to 35°C. 5 year limited warranty.

6" PERFORMANCE CHART

Lumens per Foot	Delivered Lumens	Tested System Watts	LPW
250LF	1500	15	100
450LF	2700	28	96
650LF	3900	42	92
800LF	4800	51	90
950LF	5700	63	88

Focal Point LLC reserves the right to change specifications for product improvement without notification.

ORDERING

Luminaire Series		FWSL
Focus Wall Wash	FWSL	
Shielding		FL
Prismatic Lens	FL	
Lumen Output		
250 Lumens per foot	250LF	
450 Lumens per foot	450LF	
650 Lumens per foot	650LF	
800 Lumens per foot (Not available with Lutron DALI driver)	800LF	
950 Lumens per foot (Not available with Lutron DALI driver)	950LF	
Color Temperature		
2700K	27K	
3000K	30K	
3500K	35K	
4000K	40K	
3500K Preferred Light (Standard only)	P35K	
Circuits		1C
Single Circuit	1C	
Voltage		
120/277 UNV	UNV	
347 Volt (MBLP & LCP driver only)	347	
Driver		
0-10V - 10% Dimming	LD1*	
0-10V - 1% Dimming	LD11	
Lutron H-Series - 1% Dimming	LH1	
Lutron S-Series - 1% Dimming	LL1S	
DALI - 1% Dimming	D11	
Mounting		U
Universal	U	
Factory Options		
Air Return	AR	
Chicago Plenum	CP	
Emergency Circuit	EC	
Emergency Battery Pack	EM	
Flanged Ends	FL	
Finish		WH
Matte White Housing	WH	
Controls Kit (Overview: Leave blank for pattern ordering)		6FT
Specify lumen delivery length in 1" increments	ft_in	
Pattern Options		
Specify patterns based on wall-to-wall dimensions (See Pattern Configurations for example)	PAT-	

Pattern Example: FWSL-FL-450LF-30K-1C-UNV-LD11-U-WH-WH-6FT-PAT-10'-IC-15'-5'-IC-10'

10 DAY*

Options in example qualify for the 10 day program. To ship as 10 day, add "-10" to the end of the catalog number. Contact factory for Quantity, Quality, Delivery Details.

For more information visit focalpoint@gmail.com/conference or consult factory.

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DRAFTER: Lee Keener DRAWING FILENAME: 17426E303 PATHNAME: G:\17\426\EL\Sheets DATE: 6 September 2018 TIME: 2:12 pm

Sun Jan 06 2019 2:12:03 PM
Revit Build: 2018.1.0.20180329
Revit Model: C:\Users\LCDesk\Desktop\17426E303.rvt
Analysis Model: Not Specified
Warnings: 0 Critical, 0 Critical Resolved, 0 Other, 0 Other Resolved
Sheet: E303 - LIGHTING FIXTURE CUT SHEETS

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Drafter: Lee Keener; G:\17\426\EL\Sheets\17426E303.dwg; DATE: MAY 26, 2018 TIME: 3:37 PM

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L.A.I.# 17426 PAPER SIZE 36"x24"

TERADA ARCHITECTS
ROESLING NAKAMURA TERADA ARCHITECTS

Roesling Nakamura Terada Architects
285 N Ventura Ave #102
Ventura, CA 93001
P805.626.5330
F805.626.5350
www.RNTarchitects.com

LICENSED ARCHITECT
TYSON CLINE
NO. C-34436
REN. 1-31-19
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
FILE NO. 56-21
03-118467
AC FLS CLASS M-V
DATE DEC 12 2018

LUCCI & ASSOCIATES INC
CONSULTING ELECTRICAL ENGINEERS
2257 CORTE MALPASO, #G11
CAMARILLO, CA 93012-8094
(805) 389-6520 FAX (805) 389-6519
Web Site http://www.lucciland.com

REGISTERED PROFESSIONAL ENGINEER
KENETH W. LUCCI
No. E-13540
Exp. 09/30/2020
ELECTRICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

LIGHTING FIXTURE CUT SHEETS

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI

Sheet Number

E303

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

0 2' 4' 8'

FIRST FLOOR POWER PLAN

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

1 E401

SHEET NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
2. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM U. O. N.
5. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
6. PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
7. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
8. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.

KEY NOTES:

1. +42" AFF GFCI RECEPTACLE, TAMPER PROOF.
2. +18" AFF GFCI RECEPTACLE, WET LOCATION.
3. NEW POWER PANEL (RECESSED IN 6" WALL)
4. REINSTALL PA SPEAKER & CONNECT TO PA SYSTEM.
5. PROVIDE (2) NEW CAT 6 CABLE IN 3/4"C TO IDF IN ADJACENT BUILDING & TERMINATE BOTH ENDS.

CONNECT WATER HEATER, SPLIT AC UNIT AND EXHAUST FANS TO G1 PANEL PER E200, REPLACE CONDUCTORS WITH NEW

Roesling Nakamura Terada Architects

285 N Ventura Ave #102
Ventura, CA 93001
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Web Site http://www.lucciland.com

REGISTERED PROFESSIONAL ENGINEER
KENNETH W. LUCCI
No. E 5340
Exp. 09/30/2020
ELECTRICAL
STATE OF CALIFORNIA

OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD,
OJAI, CA 93023

No.	Description	Date

Sheet Name

FIRST FLOOR POWER PLAN

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI
Sheet Number	E401

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L.A.I.# 17426 PAPER SIZE 36"x24"

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ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT

TAG #	DESCRIPTION	H.P.	FLA	MAX OCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT	RECOMMENDED FUSE SIZE/TYPE *	REMARKS	PANEL/CIRCUIT NO.	FEEDER
EF 1A	EXHAUST FAN	.	1	.	120	1	.	15A/1P	.	PROVIDE FLEX CONNECTORS ON OUTLET. CONTROL VIA HUMIDITY & MOTION SENSOR WITH LIGHT & BACKDRAFT DAMPER.	G1-13	3/4"C-2#12 & 1#12GND
EF 1B	EXHAUST FAN	.	1	.	120	1	.	15A/1P	.		G1-13	3/4"C-2#12 & 1#12GND
EF 1C	EXHAUST FAN	.	1	.	120	1	.	15A/1P	.		G1-15	3/4"C-2#12 & 1#12GND
EF 1D	EXHAUST FAN	.	1	.	120	1	.	15A/1P	.		G1-15	3/4"C-2#12 & 1#12GND
EF 2	EXHAUST FAN IN ROOM 114	.	1	.	120	1	.	15A/1P	.	PROVIDE FLEX CONNECTORS ON OUTLET. CONTROL VIA MOTION SENSOR WITH BACKDRAFT DAMPER.	CONNECT TO ROOM LIGHTING POWER	3/4"C-2#12 & 1#12GND
EF 3A	EXHAUST FAN	1/6	3	.	120	1	.	15A/1P	.	CONTROL& BACKDRAFT DAMPER.	CONNECT TO ROOM LIGHTING POWER	3/4"C-2#12 & 1#12GND
EF 3B	EXHAUST FAN	1/6	3	.	120	1	.	15A/1P	.	CONTROL& BACKDRAFT DAMPER.	CONNECT TO ROOM LIGHTING POWER	3/4"C-2#12 & 1#12GND
UH 1A	UNIT HEATER IN LOCKER ROOM 102 & 111	.06	2	.	120	1	.	15A/1P	.	.	G1-37	3/4"C-2#12 & 1#12GND
UH 1B	UNIT HEATER IN LOCKER ROOM 102 & 111	.06	2	.	120	1	.	15A/1P	.	.	G1-34	3/4"C-2#12 & 1#12GND
AC 1A	AC SPLIT UNIT	.06	2	.	120	1	.	15A/1P	.	.	G1-28 (G1-17)	(2)3/4"C-2#12 & 1#12GND
AC 1B	AC SPLIT UNIT	.06	2	.	120	1	.	15A/1P	.	.	G1-30 (G1-14)	(2)3/4"C-2#12 & 1#12GND

* ALL FUSES BY BUSSMANN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.

SHEET NOTES:

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

KEY NOTES:

1. W.P. GFCI RECEPTACLE FED FROM G1-26.
2. REINSTALL (X) OUTDOOR UNIT RECONNECT TO NEW ELECTRICAL CIRCUITS, REPLACE CONDUCTORS.
3. REINSTALL (X) FAN RECONNECT TO NEW ELECTRICAL CIRCUITS, REPLACE CONDUCTORS.
4. NEW WEATHERPROOF MOTOR RATED DISCONNECT.
5. PROVIDE FEEDERS PER ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT.
6. 3/4"C CONTROL CONDUIT PER MANUFACTURERS , PROVIDE CABLE AS REQUIRED.

CONTROL SCHEDULE

T1 THERMOSTAT. PELICAN - MODEL TS200. PROGRAMMABLE. INTERNET CONNECTIVITY. VERIFY LOCATION W/ ARCH.

3/16" = 1'-0"
0 1' 4' 8' 12'

ROOF MECHANICAL POWER PLAN 1 E421
SCALE: 3/16"=1'-0"

SITE MAP

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OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

ROOF MECHANICAL POWER PLAN

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI

Sheet Number

E421

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L.A.I.# 17426 PAPER SIZE 36"x24"

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MATILIJA JUNIOR HIGH SCHOOL GYM AND LOCKER ROOM

FIRE ALARM MODERNIZATION

FIRE ALARM MODERNIZATION LEGEND

SYMBOL	QTY.	DESCRIPTION	MODEL #	C.S.F.M. #	BACK BOX REQUIREMENTS
FACP	1	FIRE ALARM CONTROL PANEL	SILENT KNIGHT IFP-2100 ECS	7165-0559:0505	SURFACE MOUNT
RCU	1	REMOTE COMMAND UNIT	SILENT KNIGHT ECS-RCU2000	7165-0559:0505	SURFACE MOUNT
SPS-2	1	EXISTING REMOTE POWER SUPPLY	SILENT KNIGHT RPS-1000	7165-0559:0505	EXISTSING TO REMAIN
AMP	1	50 WATT AMPLIFIER	SILENT KNIGHT ECS-50W	7165-0559:0505	SURFACE MOUNT
	9	ADDRESSABLE MANUAL PULL STATION (SINGLE ACTION)	SILENT KNIGHT SD500-PS	7150-0559:0136	4" SQ. BOX W/ SINGLE GANG RING
	3	ADDRESSABLE HEAT DETECTOR W/ BASE	SILENT KNIGHT SD505-AHS	7270-0559:0127	4" SQ. BOX W/ 3" ROUND RING
CO	23	SMOKE & CARBON MONOXIDE DETECTOR COMBO W/ BASE	SYSTEM SENSOR COSMO-4W	7275-16533:0227	4" SQ. BOX
A	1	ADDRESSABE INPUT MODLE	SILENT KNIGHT SD500-MIM	7300-0559:0132	4" SQ. BOX
V S	11	SPEAKER/STROBE COMBO, WALL MOUNT	GENTEX SSPK24WLPR	7320-0569:0140	GBLP-R BACKBOX
V	4	SPEAKER/STROBE COMBO, CEILING MOUNT	GENTEX SSPK24CLPR	7320-0569:0137	GBLP-R BACKBOX
WP S	4	SURFACE SPEAKER, WP ENCLOSURE	GENTEX WSSPKR	7320-0569:0141	GBLP-R BACKBOX
N/A	19	SPEAKER/STROBE SURFACE MOUNT BACK BOX	GENTEX GBLP-R	7320-0569:0141	SURFACE MOUNT
(E)	–	EXISTING TO REMAIN	–	–	–

WIRE CHART

SYMBOL	CIRCUIT DESCRIPTION	WIRE/CONDUIT DESCRIPTION		CIRCUIT CLASS
SBUS	SBUS COMMUNICATIONS CIRCUIT	4#18 THHN/THWN IN 3/4" CONDUIT		CLASS B
VBUS	VBUS COMMUNICATIONS CIRCUIT	2#16 TWISTED SHIELDED AUDIO CABLE		CLASS B
D	SIGNAL LINE CIRCUIT	2#16 THHN/THWN IN 3/4" CONDUIT		CLASS B
N	NOTIFICATION APPLIANCE CIRCUIT	2#12 THHN/THWN IN 3/4" CONDUIT		CLASS B
S	SPEAKER APPLIANCE CIRCUIT	2#16 TWISTED SHIELDED AUDIO CABLE		CLASS B
P	NON-RESTTABLE 24VDC POWER	2#14 THHN/THWN IN 3/4" CONDUIT		CLASS B

1. ALL FIRE ALARM CABLES INSTALLED IN CONDUITS OUTDOOR AND UNDERGROUND SHALL BE "AQUA SEAL" (AQC) RATED.

PROJECT DATA

APPLICABLE CODES:

A. 2016 CALIFORNIA BUILDING CODE (CBC)
B. 2016 CALIFORNIA ELECTRICAL CODE (CEC)
C. 2016 CALIFORNIA MECHANICAL CODE (CMC)
D. 2016 CALIFORNIA PLUMBING CODE (CPC)
E. 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.;
F. TITLE 19, CCD, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
G. NFPA 72-2016 EDITION
H. CAL/OSHA CONSTRUCTION SAFETY ORDERS
J. ADA, ADAAG, ARS, TITLE 24, CHAPTER 11

BUILDING CLASSIFICATION:

GYMNASIUM
A. OCCUPANCY TYPE: A2.1
B. CONSTRUCTION TYPE: VB
C. SPRINKLERED: NO

LOCKER ROOM
A. OCCUPANCY TYPE: E
B. CONSTRUCTION TYPE: VB
C. SPRINKLERED: NO

APN#: –

AGENCIES: A. DIVISION OF THE STATE ARCHITECT

COMMISSIONING AGENCY:
AMERICAN TWO-WAY
7345 VARNA AVE.
NORTH HOLLYWOOD, CA 91605-4009 USA

UL LISTING #: UUFX.S6037

CENTRAL STATION ACCOUNT #: M100-6063

FIRE ALARM/EVACS SYSTEM OUTPUTS

CONTROL MATRIX	CONTROL UNIT ANNUNCIATION							NOTIFICATION										REQUIRED FIRE SAFETY CONTROL							
	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE COMMON SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE COMMON TROUBLE SIGNAL	DISPLAY CHANGE OF STATUS MESSAGE ON LCD DISPLAY	ACTUATE BUILDING EMERGENCY VOICE EVACUATION SIGNALS	DISPLAY MESSAGE ON LCD DISPLAY	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	TRANSMIT CARBON MONOXIDE DETECTOR ALARM SIGNAL	ACTUATE CARBON MONOXIDE TEMPORAL 4 SIGNAL	NOT USED	NOT USED	NOT USED	SYSTEM WILL BE 100% OPERATIONAL ON BATTERY BACKUP	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
SYSTEM INPUTS																									
AREA SMOKE DETECTOR/CO DETECTOR	o	o					o	o	o	o															
AREA HEAT DETECTOR	o	o					o	o	o	o															
AREA CARBON MONOXIDE DETECTOR	o						o	o	o				o	o											
MANUAL PULL STATION	o	o					o	o	o	o															
FIRE ALARM SYSTEM AC POWER FAIL					o	o	o		o			o						o							
FIRE ALARM SYSTEM LOW BATTERY					o	o	o		o			o													
GROUND FAULT					o	o	o		o			o													
SIGNAL LINE "SHORT"					o	o	o		o			o													
NOTIFICATION "OPEN" CIRCUIT					o	o	o		o			o													
MICROPHONE KEY								o																	

SCOPE OF WORK

THIS PROJECT INCLUDES THE MODERNIZATION OF THE FIRE ALARM SYSTEM IN THE MATILIJA GYMNASIUM/LOCKER ROOM:

EXISTING FIRE ALARM SYSTEM IS ADDRESSABLE, PROVIDES TOTAL AUTOMATIC COVERAGE AND INCLUDES CONVENTIONAL OCCUPANT NOTIFICATION THROUGH SPEAKERS/STROBES.

PROPOSED SYSTEM WILL PRESERVE ALL INITIATING DEVICES AND REMOVE CONVENTIONAL SPEAKERS/STROBES WITH NEW EMERGENCY VOICE EVACUATION ALARM SYSTEM DEVICES AND WILL ADD CO DETECTION & MONITORING PER SECTION 915.

MAIN FIRE ALARM CONTROL PANEL IN GYM WILL HAVE TO BE REPLACED WITH A SILENT KNIGHT IFP-2100ECS TO INTEGRATE GYMNASIUM/LOCKER ROOM MODERNIZATION.

CONTRACTOR TO PROVIDE COMPLETE SITE SYSTEM FA TESTING AFTER REPLACEMENT OF MAIN FIRE ALARM PANEL

DSA REQUIRED NOTES

1. APPLICABLE STANDARD 2016 NFPA 72
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 THE INSTALLATION OF THE SYSTEMS, 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 LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM 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 TO BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 110 DBA AT THE MINIMUM HEARING DISTANCE. SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECTIONS 5 DBA MUST BE MAINTAINED.
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. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE 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 IN UNDERGROUND LOCATIONS. THERE MUST BE AT LEAST 6' OF LEAD WIRE FROM THE BOX TO THE DEVICE. 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 THE WEIGHT OF 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 RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
22. CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
23. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
24. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
25. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

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OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL
703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

FIRE ALARM COVER SHEET

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI

Sheet Number

E501

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8. CO DETECTION SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH CBC SECTION 915 AND NFPA 720, RESPECTIVELY.

GENERAL NOTES

1. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PRECEDING WITH THE WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL FIRE ALARM CONDITIONS REGARDLESS OF INFORMATION SHOWN ON THE DRAWINGS. DISCREPANCIES BETWEEN CONDITIONS SHOWN OR NOT SHOWN ON DRAWINGS AND ACTUAL EXISTING CONDITIONS RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT IN FULL CONFORMANCE WITH THE CONTRACT DOCUMENTS.
3. BIDDERS MUST VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH EXISTING FIRE ALARM CONDITIONS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A FUNCTIONAL FIRE ALARM SYSTEM IN EVERY DETAIL AND READY FOR OCCUPANCY.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PUTTING THE EXISTING FIRE ALARM SYSTEM ON TEST DURING CONSTRUCTION.
5. THE CONTRACTOR MUST BE SILENT KNIGHT FACTORY TRAINED AND QUALIFIED ENOUGH TO REPLACE AND RE-PROGRAM THE NEW FIRE ALARM CONTROL PANEL.
6. RE USE EXISTING FIRE ALARM CONDUIT WHERE APPLICABLE
7. LOBBY AND LOCKER ROOM AREA DO NOT HAVE ANY ATTIC SPACE THEREFORE NO HIGH-TEMPERATURE HEAT DETECTORS WERE ORIGINALLY PROVIDED.

KEYED NOTES:

1. EXISTING INITIATING DEVICE/CONDUIT TO REMAIN. (TYPICAL)
2. FIRE ALARM EQUIPMENT IS POWERED FROM AN EXISTING DEDICATED BRANCH CIRCUIT 'PANEL G1' WITH LOCK ON DEVICE AND PAINTED RED.
3. NEW CARBON MONOXIDE DETECTOR (COMBO DEVICE) PROVIDED FOR MECHANICAL GAS HEATING APPLIANCE.
4. ALL SPEAKER STROBES DEVICES ARE NEW & ARE TO BE MOUNTED ON 'GBLP-R' SURFACE MOUNT BACK BOXES. (TYPICAL)
5. REPLACE EXISTING 'HORN/STROBE' WITH NEW VOICE COMMUNICATION SPEAKER STROBE. (TYPICAL)
6. INSTALL NEW SILENT KNIGHT 50W AMPLIFIER ADJACENT TO EXISTING SILENT KNIGHT REMOTE POWER SUPPLY AND PROVIDE CONDUIT BETWEEN THEM.

SYMBOL LEGEND:

SYMBOLS:

———	AQUA SEAL CABLE IN CONDUIT BELOW GRADE
- - - - - -	EXISTING INITIATING CIRCUIT TO REMAIN
———	FIRE ALARM CABLE OR THHN IN CONDUIT ABOVE GRADE
FACP	FIRE ALARM CONTROL PANEL
RCU	REMOTE COMMAND UNIT
AMP	50 WATT AMPLIFIER
SPE2	EXISTING REMOTE POWER SUPPLY
	ADDRESSABLE MANUAL PULL STATION
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
	ADDRESSABLE HEAT DETECTOR
ALL NEW →	SMOKE DETECTORS/CARBON MONOXIDE DETECTOR-COMBO DEVICE
A	ADDRESSABLE INPUT MODULE
S WP	OUTDOOR SPEAKER W/ WEATHERPROOF ENCLOSURE
VS	SPEAKER STROBE, WALL MOUNT
SVc	SPEAKER STROBE, CEILING MOUNT
(E)	EXISTING DEVICE TO REMAIN
(N)	NEW

CIRCUIT DESCRIPTION:

N1-12 EOL ← END OF LINE RESISTOR (4.7K)
- DEVICE NUMBER
- CIRCUIT NUMBER
- NOTIFICATION APPLIANCE CIRCUIT

S1-12 EOL ← END OF LINE RESISTOR (15K)
- DEVICE NUMBER
- CIRCUIT NUMBER
- SPEAKER APPLIANCE CIRCUIT

d2-23
- DEVICE NUMBER
- SLC LOOP #
- SIGNALLING LINE CIRCUIT

WIRE LEGEND:

VBUS	VBUS COMMUNICATIONS 2#16 TWISTED SHIELDED AUDIO CABLE IN CONDUIT
SBUS	SBUS COMMUNICATIONS 4#18 THHN/THWN IN CONDUIT
D	DATA LINE CIRCUIT 6#16 THHN/THWN IN CONDUIT
N	NOTIFICATION APPLIANCE CIRCUIT 2#12 THHN/THWN IN CONDUIT
S	SPEAKER APPLIANCE CIRCUIT 2#16 TWISTED SHIELDED AUDIO CABLE IN CONDUIT
P	24VDC POWER CIRCUIT 2#14 THHN/THWN IN CONDUIT

ALL FIRE ALARM CABLES INSTALLED IN CONDUITS OUTDOOR AND UNDERGROUND SHALL BE "AQUA SEAL" (AQC) RATED.

SCALE: 1/8"=1'-0"
0 4' 8' 16'

FIRE ALARM MODERNIZATION - MATILIJA GYMANSIUM

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

1 / E502

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ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL
703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

FIRE ALARM MODERNIZATION - MATILIJA GYMANSIUM

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI

Sheet Number

E502

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KEYED NOTES:

1. EXISTING FIRE ALARM CONTROL PANEL LOCATION TO BE REPLACED SEE . 2
2. EXISTING FIRE ALARM CONTROL PANEL TO BE REPLACED WITH SILENT KNIGHT IFP-2100ECS AND RE-PROGRAMMED BACK TO A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM FOR ENTIRE CAMPUS. CONTRACTOR TO PROVIDE TESTING OF ENTIRE CAMPUS FIRE ALARM SYSTEM PER NFPA 72 CHAPTER 10.
3. NEW SILENT KNIGHT 50W AMPLIFIER.
4. EXISTING SILENT KNIGHT REMOTE POWER SUPPLY.
5. EXISTING NEMA 3R JUNCTION BOX.

1/32" = 1'-0"
0' 8' 16' 32' 64'

FIRE ALARM MODERNIZATION - SITE PLAN

SCALE: 1/32"=1'-0"

1
E502

NORTH

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ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD,
OJAI, CA 93023

No.	Description	Date

Sheet Name

FIRE ALARM MODERNIZATION - SITE PLAN

	17761.00
Date	9/05/2018
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L.A.I.# 17426 PAPER SIZE 36"x24"

PATHNAME: G:\17\426\EL\Sheets
DATE: 6 September 2018
TIME: 2:12 pm
DRAWING FILENAME: 17426E503
DRAFTER: Lee Keener

C:\Users\lwasaki\Documents\Matilija Roofing Project_lwasaki@rntarchitects.com.rvt

G:\17\426\EL\Sheets\17426E503.DWG Sep 06, 2018, 2:12pm Lee Keener

BATTERY CALCULATIONS "FACP"

EQUIPMENT	QTY.	STAND-BY CURRENT UNIT	STAND-BY CURRENT TOTAL	ALARM CURRENT UNIT	ALARM CURRENT TOTAL
IFP-2100/ECS	1	0.230	0.230	0.415	0.415
RPS-1000	1	0.010	0.010	0.010	0.010
5815XL	1	0.055	0.055	0.125	0.125
SD500-PS	1	0.0003	0.000	0.0003	0.000
SD505-PHOTO	32	0.0003	0.010	0.0003	0.010
SD505-AHS	20	0.0003	0.006	0.0003	0.006
SD500-MIM	1	0.00035	0.000	0.00035	0.000
ECS-50W	1	0.010	0.010	0.010	0.010
ECS-VCM	1	0.070	0.070	0.070	0.070
NAC Circuit N1	1		--	1.112	1.112
NAC Circuit N2	1		--	1.090	1.090
NAC Circuit N3	1		--	0.979	0.979

TOTAL STANDBY CURRENT (AMPS)	0.391	3.827	**TOTAL ALARM CURRENT (AMPS)**
STANDY BY TIME IN HOURS	24	0.250	**ALARM TIME IN MINUTES / 60 (15 MINUTES)**
TOTAL STANDBY AH REQUIRED	9.390	0.957	**TOTAL ALARM AH REQUIRED**
TOTAL COMBINED AH REQUIRED	10.347		
MULTIPLY BY THE DERATING FACTOR	1.20		
MINIMUM BATTERY AH REQUIRED	**12.416**		
BATTERY AH PROVIDED	**18.000**		
SPARE CAPACITY AH	**5.584**		

BATTERY CALCULATIONS "SPE-2"

EQUIPMENT	QTY.	STAND-BY CURRENT UNIT	STAND-BY CURRENT TOTAL	ALARM CURRENT UNIT	ALARM CURRENT TOTAL
RPS-1000	1	0.040	0.040	0.160	0.160
5815XL	1	0.055	0.055	0.125	0.125
SD500-PS	9	0.0003	0.003	0.0003	0.003
COSMO-4W	23	0.0022	0.0506	0.0034	0.0782
SD505-AHS	3	0.0003	0.0009	0.0003	0.0009
SD500-MIM	1	0.00035	0.00035	0.00035	0.0004
ECS-50W	1	0.010	0.010	0.010	0.010
ECS-RCU2000	1	0.100	0.100	0.225	0.225
NAC Circuit N1	1		--	0.653	0.653
NAC Circuit N2	1		--	1.028	1.028
24VDC POWER FOR CO DET.	1	0.020	0.020	0.040	0.040

TOTAL STANDBY CURRENT (AMPS)	0.280	2.323	**TOTAL ALARM CURRENT (AMPS)**
STANDY BY TIME IN HOURS	24	0.250	**ALARM TIME IN MINUTES / 60 (15 MINUTES)**
TOTAL STANDBY AH REQUIRED	6.709	0.581	**TOTAL ALARM AH REQUIRED**
TOTAL COMBINED AH REQUIRED	7.290		
MULTIPLY BY THE DERATING FACTOR	1.20		
MINIMUM BATTERY AH REQUIRED	**8.748**		
BATTERY AH PROVIDED	**16.000**		
SPARE CAPACITY AH	**7.252**		

BATTERY CALCULATIONS 'AMP'

EQUIPMENT	QTY.	STAND-BY CURRENT UNIT	STAND-BY CURRENT TOTAL	ALARM CURRENT UNIT	ALARM CURRENT TOTAL
ECS50W	1	0.085	0.085	0.525	0.525
# OF WATTS	13		--	0.040	0.520

TOTAL STANDBY CURRENT (AMPS)	0.085	1.045	**TOTAL ALARM CURRENT (AMPS)**
STANDY BY TIME IN HOURS	24	0.250	**ALARM TIME IN MINUTES / 60 (15 MINUTES)**
TOTAL STANDBY AH REQUIRED	2.040	0.261	**TOTAL ALARM AH REQUIRED**
TOTAL COMBINED AH REQUIRED	2.301		
MULTIPLY BY THE DERATING FACTOR	1.20		
MINIMUM BATTERY AH REQUIRED	**2.762**		
BATTERY AH PROVIDED	**8.000**		
SPARE CAPACITY AH	**5.239**		

12 DEVICES @ 1/4W = 3 WATTS
4 DEVICES @ 1/2W = 2 WATTS
4 DEVICES @ 2W = 8 WATTS

NEW BATTERY CALCULATIONS

SCALE: NONE

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VOLTAGE DROP CALCULATIONS - NOTIFICATION APPLIANCE CIRCUITS

PANEL ID	CKT #	15cd STROBE 0.053 QTY.	AMP	30cd STROBE 0.063 QTY.	AMP	75cd STROBE 0.122 QTY.	AMP	110cd STROBE 0.136 QTY.	AMP	15cd STROBE (CEILING) 0.072 QTY.	AMP	30cd STROBE (CEILING) 0.101 QTY.	AMP	75cd STROBE (CEILING) 0.167 QTY.	AMP	N/A 0.000 QTY.	AMP	N/A 0.000 QTY.	AMP	(I) TOTAL CURRENT	x	LENGTH FT.	x	21.6	÷	CIR MILS 14awg	=	VOLTS DROPPED	÷	24(V)	x	100	% VOLTAGE DROP
RPS-2	N12	3	0.165		0.000	4	0.488		0.000		0.000		0.000		0.000		0.000		0.000	0.653	x	450	x	21.6	x	6530	=	0.972	÷	24	x	100	4.1
RPS-2	N13		0.000		0.000		0.000		0.000	5	0.360		0.000	4	0.668		0.000		0.000	1.028	x	425	x	21.6	x	6530	=	1.445	÷	24	x	100	6.0

I x FEET x 21.6 = VOLTAGE DROPPED
C.M.
I = TOTAL CIRCUIT CURRENT
FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE
21.6 = FORMULA CONSTANT
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580
AWG 18	6.39 PER 1000'	1620

VOLTAGE DROP CALCULATIONS - SPEAKER APPLIANCE CIRCUITS

PANEL ID	CKT #	1/4 WATT 0.017 QTY.	AMP	1/2 WATT 0.034 QTY.	AMP	1 WATT 0.068 QTY.	AMP	2 WATT 0.132 QTY.	AMP	N/A 0.000 QTY.	AMP	N/A 0.000 QTY.	AMP	N/A 0.000 QTY.	AMP	N/A 0.000 QTY.	AMP	N/A 0.000 QTY.	AMP	(I) TOTAL CURRENT	x	LENGTH FT.	x	21.6	÷	CIR MILS 14awg	=	VOLTS DROPPED	÷	24(V)	x	100	% VOLTAGE DROP
AMP	S1	3	0.051	4	0.136		0.000	3	0.396		0.000		0.000		0.000		0.000		0.000	0.583	x	450	x	21.6	x	2580	=	2.196	÷	24	x	100	9.2
AMP	S2	9	0.153		0.000		0.000	1	0.132		0.000		0.000		0.000		0.000		0.000	0.285	x	425	x	21.6	x	2580	=	1.014	÷	24	x	100	4.2

I x FEET x 21.6 = VOLTAGE DROPPED
C.M.
I = TOTAL CIRCUIT CURRENT
FEET = ONE WAY DISTANCE IN FEET MEASURED FROM SOURCE TO THE LAST DEVICE
21.6 = FORMULA CONSTANT
C.M. = CROSS SECTIONAL AREA OF CONDUCTOR IN CIRCULAR MILS. SEE CHART BELOW

WIRE SIZE	WIRE RESISTANCE	CIR. MILS
AWG 12	1.59 PER 1000'	6530
AWG 14	2.52 PER 1000'	4110
AWG 16	4.02 PER 1000'	2580
AWG 18	6.39 PER 1000'	1620

NEW VOLTAGE DROP CALCULATIONS

SCALE: NONE

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NEW FIRE ALARM RISER W/ EVACS FOR BLDG 'E' & 'K'

SCALE: NONE

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OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL
703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

FIRE ALARM CALCULATIONS & RISER DIAGRAM

	17761.00
Date	9/05/2018
Drawn by	S.F.
Checked by	K. LUCCI
Sheet Number	E504

DRAFTER: Lee Keener DRAWING FILENAME: 17426E504 PATHNAME: G:\17\426\EL\Sheets DATE: 6 September 2018 TIME: 2:12 pm

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Drafter: Lee Keener: G:\17\426\EL\Sheets\17426E504.DWG: DATE: SEP 04, 2018 TIME: 4:25 PM

C.O. & SMOKE DETECTOR

COMMON MOUNTING HEIGHT DETAIL

POINT TO POINT FIRE ALARM/EVACS WIRING DETAIL

SCALE: NONE

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OJAI UNIFIED SCHOOL DISTRICT

ROOFING PROJECT AT MATILIJA JUNIOR HIGH SCHOOL

703 EL PASEO ROAD, OJAI, CA 93023

No.	Description	Date

Sheet Name

POINT TO POINT FIRE ALARM/EVACS WIRING DETAIL

	17761.00
Date	9/05/2018
Drawn by	S.F.
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