VALHALLA HIG
BATTERY REP
VALHALLA HIGH
1725 HILLSDALE ROAD, E
GROSSMONT UNION HIGH

RUHNAU CLARKE ARCHITECTS

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

TYPICAL ABBREVIATIONS

	@ &	AT AND	GA GALV	GAUGE GALVANIZED
	<	ANGLE	GL GLU LAN	GLASS
	ACPL ACT	ACOUSTIC PLASTER ACOUSTIC TILE	GB	GRAB BAR
	AFF	ABOVE FINISHED FLOOR	GWB	GYPSUM PLASTER GYPSUM WALLBOARD WATER RESISTANT GWB
	BLKG	BLOCKING	GC	GENERAL CONTRACTOR
	BD BOS	BOARD BOTTOM OF STRUCTURE	H	HIGH
	BB	BULTTETIN BOARD	HDW HORIZ	
	CAB CPT	CABINET CARPET	HR HT	HOUR HEIGHT
	CSWK CLG	CASEWORK CEILING	ID	INSIDE DIAMETER
	CEM CPL	CEMENT CEMENT PLASTER	INSUL INT	
	CL CT	CENTERLINE CERAMIC TILE	JH	JOIST HANGER
	CLF CLR	CHAIN LINK FNECE CLEAR	JT JST	JOINT JOIST
	COL	COLUMN CONCRETE	LAM	LAMINATE
	CMU	CONCRETE MASONRY UNIT	LT	LIGHT
	CJ CONT	COLD JOINT CONTINUOUS	LVR	LOUVER
	CF	CUBIC FEET	MACH MAX	MACHINE MAXIMUM
	DP DET	DEMOUNTABLE PARTITION DETAIL	MECH MIN	MECHANICAL MINIMUM
	DIM DR	DIMENSION DOOR	MH MFR	MANHOLE MANUFACTURER
	DRF DL	DOOR FRAME DOOR LOUVER	MO MTL	MASONRY OPENING METAL
	DN DS	DOWN DOWN SPOUT	ML MS	METAL LATHE METAL STUD
	DF DSA	DRINKING FOUNTAIN DIVISION OF STATE	MTD	MOUNTED
		ARCHITECT	NIC NTC	NOT IN CONTRACT NOT IN CONTRACT
	DWGS	DRAWINGS	NTS	NOT TO SCALE
		EACH ELECTRIC	NO	NUMBER
	EWC ELEV	ELECTRIC WATER COOLER ELEVATION	OC OD	ON CENTER OUTSIDE DIAMETER
	ENCL EQ	ENCLOSURE EQUAL	OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED
	EQUIP (E)	EQUIPMENT EXISTING	OFOI	OWNER FURNUSHED/ OWNER INSTALLED
	EXP EJ	EXPANSION/EXPOSED EXPANSION JOINT	OH OPNG	OPPOSITE HAND/OVERHEA OPENING
	EW EXT	EACH WAY EXTERIOR	OPP	OPPOSITE
	FS	FLOOR SINK	PA PFIN	PLANTING AREA PRE FINISHED
	FOF FOM	FACE OF FINISH FACE OF MASONRY	PL PLAS	PLATE/PROPERTY LINE PLASTIC
	FOS FIN	FACE OF STUD FINISH	PLWD PTD	PLYWOOD PAINTED
	FC	FINISH CEILING	PTN	PARTITION
	FG FFE	FINISH GRADE FINISH FLOOR GRADE	R	RADIUS/RISER
	FEC FHC	FIRE EXTINGUISER CABINET FIRE HOSE CABINET	REF	ROOF DRAIN REFERENCE
	FRPF FD	FIREPROOF/FIREPROOFING FLOOR DRAIN	REQD	
	FLR FURN	FLOOR FURNISH/FURNITURE	RO RQMT	ROUGH OPENING REQUIREMENT
		ARCHITE	CT	URAL SYN
I	DIRECTIO	NG SECTION DN OF VIEW CUT		CONSTRUCTION KEY
		ON OF VIEW1	SIM	NUMBER
(OCCURS	N WHICH DETAIL	01	REFERENCE
		DR ELEVATION		IDENTIFICATION: DEPTH
		SHEET -1		HEIGHT ——— INDICATES SPECIAL
	SHEET O OCCURS	N WHICH DETAIL	01	W.I.C. NUMBER LENGTH
<u> </u>	DETAIL	REFERENCE TO DRAWINGS		LOCK

SRF FLOORING SS SERVICE SINK/ STAINLESS STEEL SHT SHEFT SHTH SHEATHING SOLID CORE SPLASH BLOCK SB STN STD STAIN STANDARD STL STEEL STR STRUCTURAL/STRUCTUR SUSP SUSPENDED SM SHEET METAL SIM SIMILAR TB TACK BOARD TOOLED JOINT TOP OF CONCRETE CURB TUBE STEEL TOP OF WALK TW TYP TYPICAL TEI EPHONE TFI TEMP TEMPERATURE TOC TOP OF CANOPY TOR TOP OF ROOF TOS TOP OF STRUCTURE TOP TOP OF PARAPET TOW TOP OF WALL UC UNDER CUT/ UNDER COUNTER UNLESS NOTED UNO OTHERWISE VERT VERTICAL VINYL COATED VCT VINYL COMPOSITION TILE R INSTALLED VT VINYL TILE VSF VINYL SHEET FLOORING VWC VINYL WALL COVERING ND/OVERHEAD VIF VERIFIED IN FIELD VENT THROUGH ROOF VTR WWF WELD WIRE FABRIC WI

RSLB RESILIENT BASE

ROUND

RT

RWL

0

W/

WD

SYMBOLS

RUBBER TREAD

RAIN WATER LEADER

SEAMLESS RESILIENT

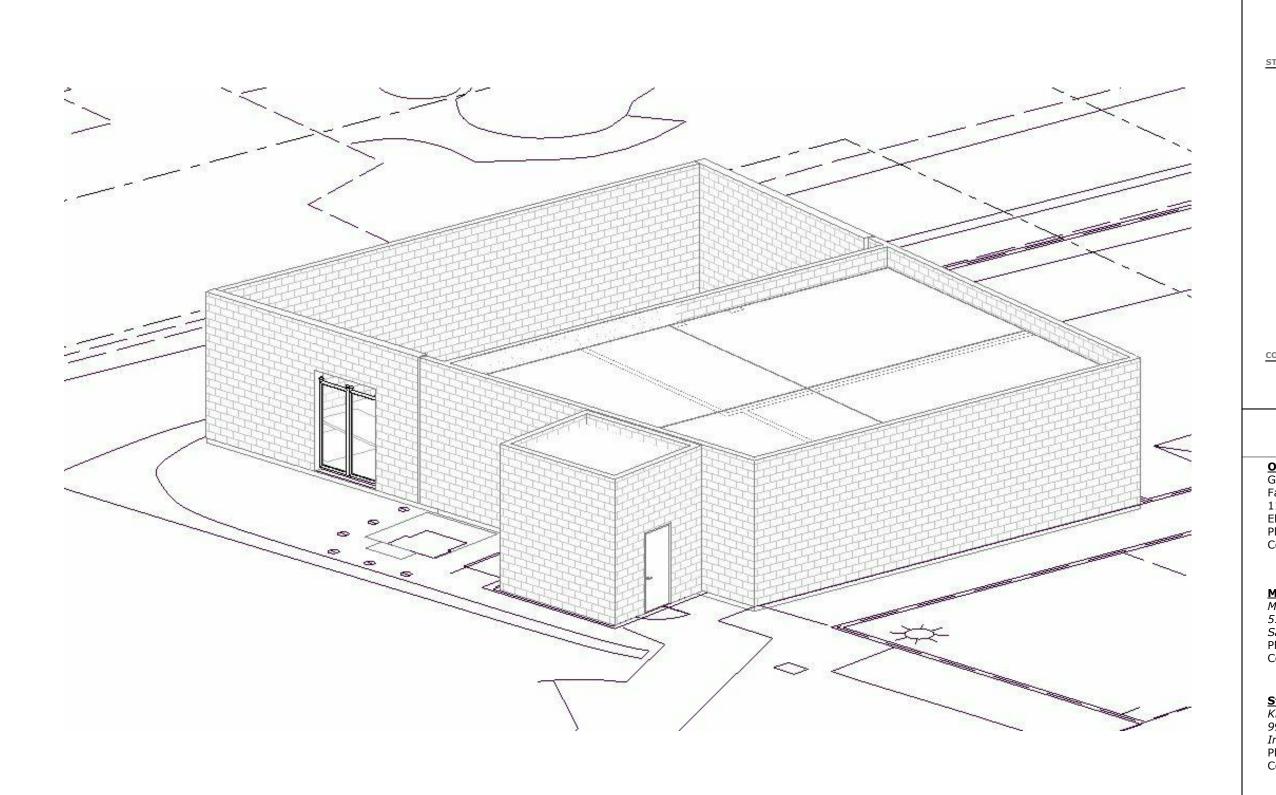
WOODWORKING INSTITUTE WIN WINDOW WITH WOOD W/O WITHOUT

GENERAL NOTES THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, SEQUENCE, TECHNIQUES OR

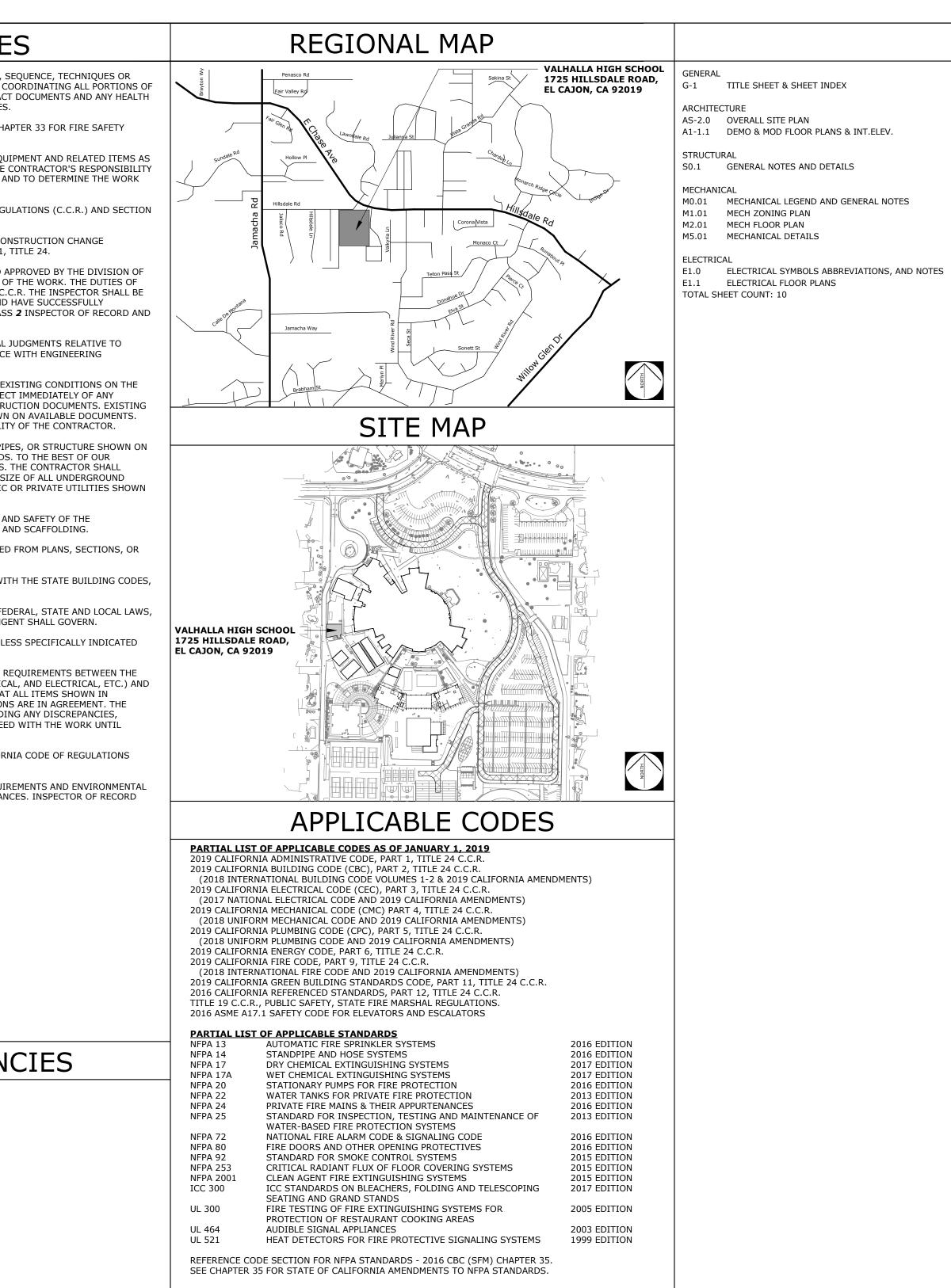
- PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE CONTRACTOR SHALL COMPLY WITH CALIFORNIA FIRE CODE, CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.
- CONTRACTOR WILL BE REOUIRED TO PROVIDE AND INSTALL ALL EOUIPMENT AND RELATED ITEMS AS SHOWN IN THESE DOCUMENTS AND AS SPECIFIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID AND TO DETERMINE THE WORK NECESSARY TO COMPLETE THE PROJECT.
- 4. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) AND SECTION 4-333.
- STRUCTURAL MODIFICATIONS SHALL BE MADE BY ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (C.C.D.) APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.
- A PROJECT INSPECTOR, EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT, SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR IS DEFINED IN SECTION 4-342, PART 1, TITLE 24, C.C.R. THE INSPECTOR SHALL BE ESPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK AND HAVE SUCCESSFULLY COMPLETED THE REQUIRED DSA CERTIFICATION PROCESS FOR CLASS 2 INSPECTOR OF RECORD AND A R.B.I.P.
- THE ARCHITECT OF RECORD SHALL HAVE THE RIGHT TO MAKE FINAL JUDGMENTS RELATIVE TO SUBMITTAL DRAWING REVISIONS IN ORDER TO ENSURE COMPLIANCE WITH ENGINEERING STANDARDS, APPLICABLE CODES, AND ARCHITECTURAL INTENT.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS ON THE JOB SITE PRIOR TO THE START OF ANY WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF INFORMATION SHOWN ON AVAILABLE DOCUMENTS. ANY DAMAGE TO EXISTING CONDITIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, OR STRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, EXISTING UTILITIES ARE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN OR NOT SHOWN HEREON.
- 10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUACY AND SAFETY OF THE DESIGN/ERECTION OF BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING.
- . UNDER NO CIRCUMSTANCE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE DRAWINGS.
- 12. ALL STANDARDS, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE STATE BUILDING CODES, ORDINANCES, REGULATIONS, AND LAWS.
- 13. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN. 14. ITEMS MARKED "TYP." OR "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF REQUIREMENTS BETWEEN THE DISCIPLINES (ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL, ETC.) AND BETWEEN DRAWING AND SPECIFICATION IN ORDER TO ENSURE THAT ALL ITEMS SHOWN IN RELATIONSHIP TO ONE ANOTHER OR SHOWN IN MULTIPLE LOCATIONS ARE IN AGREEMENT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT REGARDING ANY DISCREPANCIES, ERRORS, OMISSIONS OR INCONSISTENCIES AND SHALL NOT PROCEED WITH THE WORK UNTIL CLARIFICATION HAS BEEN ISSUED BY THE ARCHITECT.
- 16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS
- . GRADING PLANS DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. INSPECTOR OF RECORD (IOR CLASSIFICATION 1).

DUILDING SECTION DIRECTION OF VIEW DIRECTION OF VIEW VIEW ON SHEET SHEET ON WHICH DETAIL OCCURS EXTERIOR ELEVATION DIRECTION OF VIEW VIEW ON SHEET SHEET ON WHICH DETAIL OR VIEW ON SHEET SHEET ON WHICH DETAIL OCCURS DETAIL REFERENCE TO DRAWINGS VIEW ON SHEET SHEET ON WHICH DETAIL OCCURS DIRECTION OF VIEW ROOM SHEET SHEET ON WHICH DETAIL OCCURS DIRECTION OF VIEW ROOM NAME ROOM NAME ROOM NAME ROOM NUMBER 1 1001 9/A1-7.1 2 SHEET ON WHICH INTERIOR ELEVATION OCCURS INTERIOR ELEVATION VIEW DOOR TAG MINDOW TAG 1t <th>KETHOLE 1 CONSTRUCTION KEY NOTE X.X ASSOCIATED DETAIL A101 REFERENCE CASEWORK DEPTH EIGHT HEIGHT 40 NUMBER 40 W.I.C. NUMBER Mercycerse LENGTH Mercycerse LOCK Mercycerse EXPLANATION OF SPECIAL CONDITION IF NEEDED</th> <th>APPLICABLE AGEN STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES DIVISION OF THE STATE ARCHITECT 10920 VIA FRONTERA ROAD, STE. 300 SAN DIEGO, CA 92127 TEL: (858) 674-5400</th>	KETHOLE 1 CONSTRUCTION KEY NOTE X.X ASSOCIATED DETAIL A101 REFERENCE CASEWORK DEPTH EIGHT HEIGHT 40 NUMBER 40 W.I.C. NUMBER Mercycerse LENGTH Mercycerse LOCK Mercycerse EXPLANATION OF SPECIAL CONDITION IF NEEDED	APPLICABLE AGEN STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES DIVISION OF THE STATE ARCHITECT 10920 VIA FRONTERA ROAD, STE. 300 SAN DIEGO, CA 92127 TEL: (858) 674-5400
PROJECT No. :1-30-56 6/15/2021 3:30:14 PM DRAWN BY: CHECKED BY: ISSUE No. DATE DESCRIPTION ISSUE No. DATE DESCRIPTION ISSUE No. DATE DESCRIPTION ISSUE No. DATE DESCRIPTION ISSUE No. DATE	REVISION No. DATE DESCRIPTION REVISION No. DATE DESCRIPTION REVISION NO. DATE DESCRIPTION REVISION No. DATE DESCRIPTION	

GH SCHOOL LACEMENT SCHOOL EL CAJON, CA 92019 SCHOOL DISTRICT



SHEET INDEX



RUHNAUCI

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501(951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 9201(0760) 438 5899



SCOPE OF WORK

SHEET	INDEA	SCOPE
		THE PROPOSED SCOPE OF WORK IS THE REPLAC AND INVERTOR FOR THE MAIN CLASSROOM BUIL PROJECT WOULD INCLUDE DEMOLITION OF THE 20 YEAR LIFE BATTERY SYSTEM; NEW INVERTOR EXISTING CONCRETE MAINTENANCE PADS IN TH ADJACENT TO THE EXISTING CHILLER AND MAIN ALSO BE MOUNTED A NEW CONCRETE MAINTENA COOLING TOWER COURTYARD
		STATEMENT OF GE
		FOR ARCHITECT/ENGINEERS W NOT LIMITED TO SHOP DRAWI DESIGN PROFESSION
		THE DRAWINGS OR SHEETS LISTED ON THE
		HAVE BEEN PREPARED BY OTHER DESIGN PROFE AUTHORIZED TO PREPARE SUCH DRAWINGS IN 1) DESIGN INTENT AND APPEARS TO ME
		CALIFORNÍA CODE OF REGUATIONS AND THE PROJECT SPE 2) COORDINATION WITH THE PLANS AN INTO THE CONSTRUCTION OF THIS PROJECT
		THE STATEMENT OF GENERAL CONFORMANCE "S DUTIES, AND RESPONSIBILITIES UNDER SECTIO SECTIONS 4-336, 4-341, AND 4-344" OF TITLE 2
		I FIND THAT: 🔀 ALL DRAWINGS OR SHEETS LIS
		SIGNATURE
		ARCHITECT ÖR ENGINEER DESIGNATED TO BE I DAVID RUHNAU PRINT NAME C-20662 LICENSE NUMBER
	VALHALLA HIGH SCHOOL BATTERY	
ARKE.COM	REPLACEMENT VALHALLA HIGH SCHOOL	TITLE SHEET & S

VALHALLA HIGH SCHOOL **1725 HILLSDALE ROAD, EL CAJON, CA 92019 GROSSMONT UNION HIGH SCHOOL DISTRICT** TITLE SHEET & SHEET INDEX



37-H4 A#04-



CONTACT LIST Architect Ruhnau Clarke Architects Carlsbad, CA 92010 Phone: 760.438.5899 Contact:Chris Perez cperez@ruhnauclarke.com Contact: David Ruhnau druhnau@ruhnauclarke.com <u>Electrical</u> Johnson Consulting Engineers 12875 Brookprinter Plaza, Suite 300

Poway, CA, 92064 Phone: 858.679.4030. Contact: John Frisbie jfrisbie@jce-inc.com

Specifications 9783 E. Maplewood Ave.

Englewood, CO 80111 Phone: 909.374.2011 Contact: Richard Gonser specstudio@icloud.com

ACEMENT OF THE EXISTING BATTERY BACKUP SYSTEM UILDING AT VALHALLA HIGH SCHOOL. THE PROPOSED HE EXISTING SYSTEM AND THE INSTALLATION OF A NEW OR, NEW STORAGE CABINETS MOUNTED TO THE THE EXISTING ELECTRICAL ROOM (DSA A#04-109912) AIN BUILDING ON CAMPUS. TWO SPLIT SYSTEMS WILL ENANCE PAD LOCATED IN THE IN THE EXISTING

GENERAL CONFORMANCE S WHO UTILIZE PLANS, INCLUDING BUT WINGS, PREPARED BY OTHER LICENSED DNALS AND/OR CONSULTANTS HE INDEX SHEET NS/CALCULATIONS DFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

MEET THE APPROPRIATE REQUIREMENT OF TITLE 24, SPECIFICATIONS PREPARED BY ME, AND AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCOPORATION

"SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, TIONS 17802 AND 81138 OF THE EDUCATION CODE AND E 24, PART 1, (TITLE 24, PART 1, SECTION 4-317(b)) LISTED ON THE COVER OR INDEX SHEET

H THE PROJECT DESIGN, AND E PROJECT PLANS AND SPECIFICATIONS 6.16.21 DATE

E IN GENERAL RESPONSIBLE CHARGE

03-31-23 EXPIRATION DATE



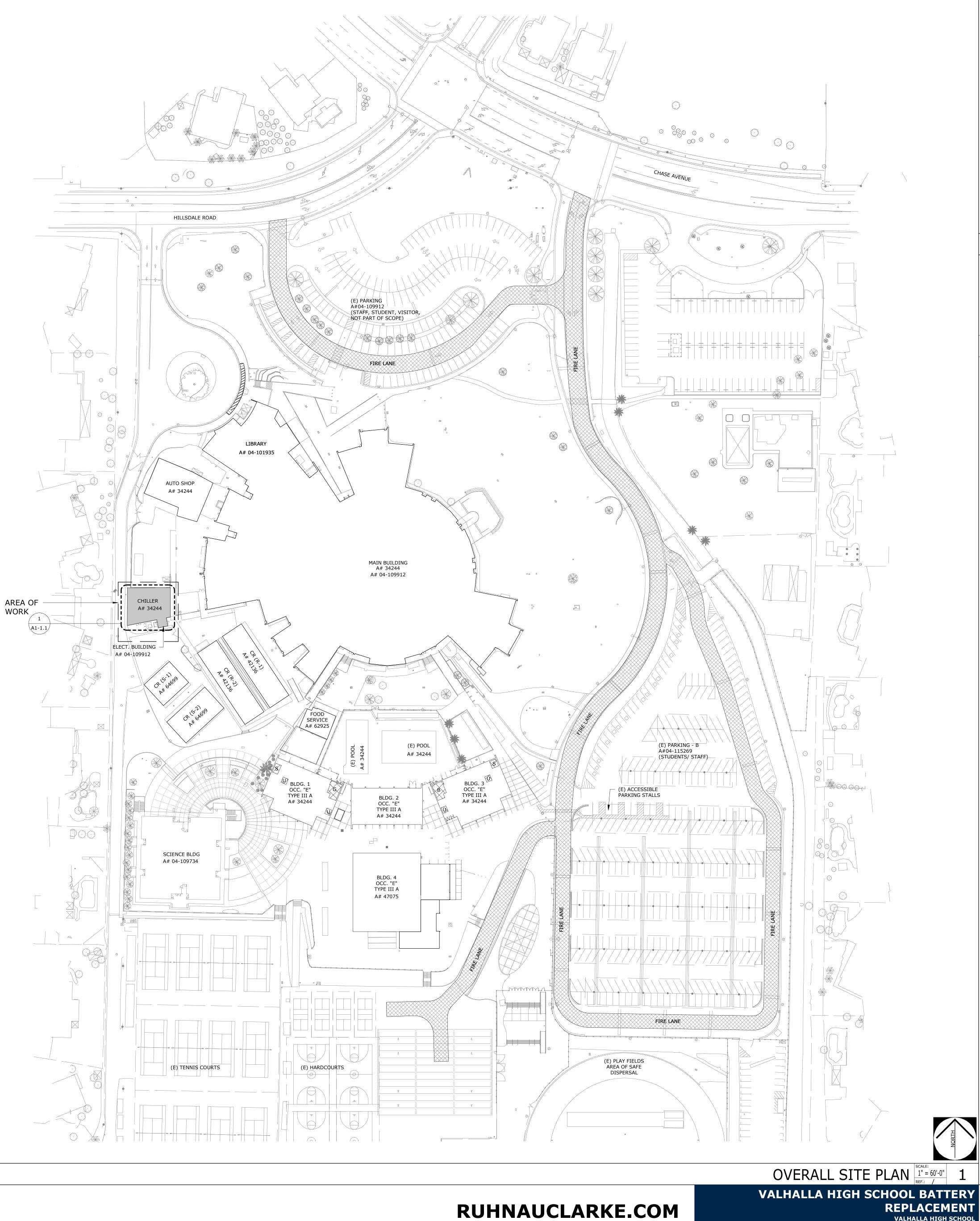


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3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501(951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 9201(0760) 438 5899

STAMPS	
CONSULTANT BRANDI	NG
	GENE
1. VERIFY ALL D	IMENSIONS PRIOR TO CON
LE	GEND SI
	EXISTING BUILDING
	EXISTING BUILDING
	EXISTING FIRE LANE

REPLACEMENT VALHALLA HIGH SCHOOL 1725 HILLSDALE ROAD, EL CAJON, CA 92019 GROSSMONT UNION HIGH SCHOOL DISTRICT



AGENCY APPROVAL File No: 37-H4 A#04-120235



ERAL NOTES

ONSTRUCTION.

ITE PLAN - MOD.

G TO REMAIN

G TO BE MODERNIZED





1-30-56

BOILER ROOM ELECT. ROOM CHILLER 1 CHILLER ROOM CHILLER 2 COOLING TOWER COURTYARD 103 CT-1 CT-2 **PROJECT No. :1-30-56** 6/15/2021 3:30:11 PM CHECKED BY: ___ DESCRIPTION____ __ DESCRIPTION___ ___ DESCRIPTION___ ___ DESCRIPTION___ DRAWN BY: ISSUE No.____ ISSUE No.____ ISSUE No.____ ISSUE No.____
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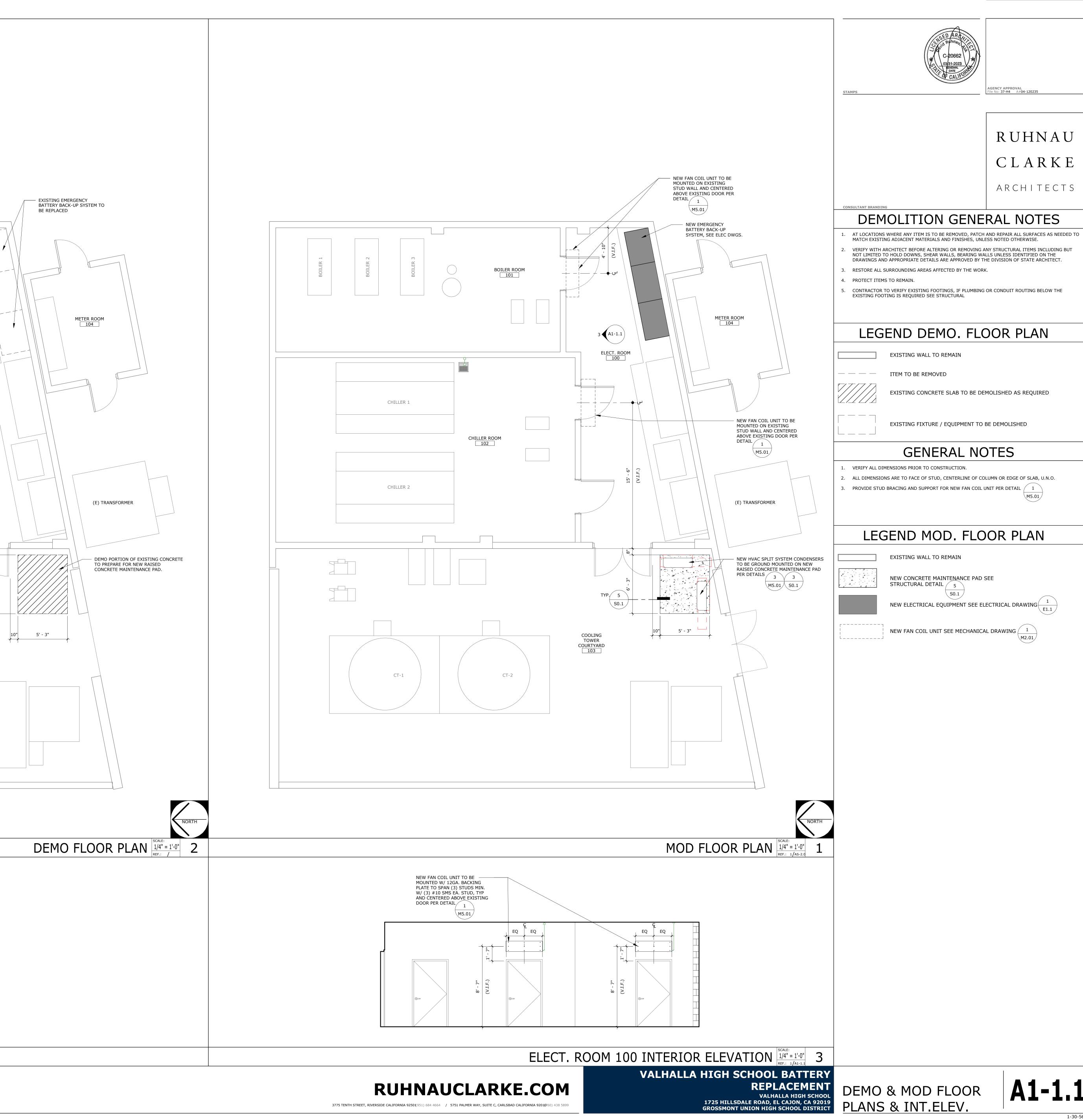
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ENCY APPROVAL No: 37-H4 A#04-120235



EXISTING CONCRETE SLAB TO BE DEMOLISHED AS REQUIRED

\M5.01

NEW ELECTRICAL EQUIPMENT SEE ELECTRICAL DRAWING

\m2.01∕



1-30-56

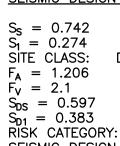
ADD'L.	ADDITIONAL
ALT.	ALTERNATE
ACI INSTITUTE ASSOCIATION	AMERICAN CONCRETE
ASTM TESTING AND MATERIALS AWS A.B. ARCH. ©	AMERICAN SOCIETY FOR AMERICAN WELDING SOCIETY ANCHOR BOLT(S) ARCHITECT/ARCHITECTURAL AT
BTWN.	BETWEEN
BOT. OR BOTT.	BOTTOM
BLDG.	BUILDING
CBC CIP CJP PENETRATION WELD &	CALIFORNIA BUILDING CODE CAST IN PLACE COMPLETE JOINT CENTER LINE
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
COND.	CONDITION
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT'D	CONTINUED
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
DL	DEAD LOAD
DEMO.	DEMOLISH
DTL. OR DET.	DETAIL
DIAG.	DIAGONAL
DIA. OR Ø	DIAMETER
DIM.	DIMENSION
DBL.	DOUBLE
DWL.	DOWEL
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMBED.	EMBEDMENT
ENG.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXCAV.	EXCAVATION
(E)	EXISTING
EXT.	EXTERIOR
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD OR FACE OF
F.O.S. SLAB F.S. FIN. F.F. FLR. FTG. FNDN. GALV.	FACE OF STOD OK FACE OF FAR SIDE FINISH FINISHED FLOOR FLOOR FOOTING FOUNDATION GALVANIZE
GA.	GAUGE
GR.	GRADE
HGR.	HANGER
HDR.	HEADER
HT.	HEIGHT
HSS	HOLLOW STRUCTURAL
SECTION HORIZ. INFO. I.D. INT. IBC CODE ICC COUNCIL INV.	HORIZONTAL INFORMATION INSIDE DIAMETER INTERIOR INTERNATIONAL BUILDING INTERNATIONAL CODE INVERT
KSI	KIPS PER SQUARE INCH
LDGR.	LEDGER
LT. WT. OR LW	LIGHT WEIGHT
LL	LIVE LOAD
LG.	LONG OR LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO-HY	LOW HYDROGEN
M.B. MFR. MATL. MAX. MECH. MTL. MIN. MISC. MU N.F.	MACHINE BOLT(S) MANUFACTURER MATERIAL MAXIMUM MECHANICAL MINIMUM MISCELLANEOUS MECHANICAL UNIT
N.S.	NEAR SIDE
NSA	NELSON STUD ANCHOR
(N)	NEW
NIC.	NOT IN CONTRACT
NTS.	NOT TO SCALE
NO. OR #	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
O.D.	OUTSIDE DIAMETER
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PL	PROPERTY LINE
RAD.	RADIUS
REF.	REFERENCE
REINF.	REINFORCING
REQ'D	REQUIRED
REQMT.	REQUIREMENT
SCHED.	SCHEDULE
SEC.	SECTION
SHT.	SHEET
SMS	SHEET METAL SCREWS
SIM.	SIMILAR
SIMP.	SIMPSON
SPCG.	SPACING
SPECS.	SPECIFICATION
SQ.	SQUARE
STGR.	STAGGER
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STIFF.	STIFFENER
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
THK.	THICK
K OR KIP	1,000 POUNDS
THRU	THROUGH
T&B	TOP AND BOTTOM
T.O.F.	TOP OF FOOTING
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
VERT.	VERTICAL
WT.	WEIGHT
W/	WITH
W/O	WITHOUT

GENERAL

- ADMINISTRATIVE CODE), 2019 EDITION.
- BUILDING CODE), 2019 EDITION.
- SPECIFICATIONS.
- CIVIL CODE (THE DRIGHT TO REPAIR ACTD).
- THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
- THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
- LIMITATION, THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR FOR ANY AND ALL SAFETY PROGRAMS AND PRECAUTIONS.
- 3. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE
- 4. IN INTERPRETING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.
- CONSIDERED ONLY APPROXIMATE.
- 5. IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY: OTHERWISE PROCEEDING.
- SUBMITTAL.
- 8. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE SOLE RISK.

PROJECT DESIGN CRITERIA

WIND	LOADS
	RISK CATEGORY: III EXPOSURE CATEGORY: C BASIC DESIGN WIND SPEED ALLOWABLE STRESS DESIGN VELOCITY PRESSURE EXPOSE TOPOGRAPHIC FACTOR, K_{zt} = WIND DIRECTIONALITY FACTOF GROUND ELEVATION FACTOR, GUST EFFECT FACTOR, G =
A.	EQUIPMENT (ASCE 7-16, CH
	$q_Z = 0.00256 \ \text{K}_Z \ \text{K}_{Zt} \ \text{K}_d$ Ke
	$P = q_z GC_f A_f$
	FORCE COEFFICIENT, $C_{f} = [$
EARTH	QUAKE LOADS
	SEISMIC DESIGN CRITERIA



RISK CATEGORY: III SEISMIC DESIGN CATEGORY: D SEISMIC DESIGN REQUIREMENTS $F_{P} = 0.4(AP)(S_{DS})(l_{P}) (1+2(Z/h)W_{P})$ SESMIC HORIZONTAL FORCE FOR EQUIPMENT

DESIGN HORIZONTAL FORCE FOR TANKS $V = C_S W$ WHERE BUT SHALL NOT BE LESS THAN BUT NEED NOT EXCEED



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1. THESE STRUCTURAL DRAWINGS AND SPECIFICATIONS, INCLUDING ANY ADDENDA (COLLECTIVELY "THE PLANS") INCORPORATE ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION THE FOLLOWING:

• THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1 (CALIFORNIA

• THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CALIFORNIA

• OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND

THE FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA

2. THE PLANS REPRESENT ONLY THE FINISHED STRUCTURE, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. IN PARTICULAR AND WITHOUT

ANY AND ALL EXCAVATION, DEMOLITION, SHORING AND ERECTION PROCEDURES AND

CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE STRUCTURAL WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.

WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.

• WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS

SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE

• BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR

 THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

6. SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE

7. IN NO EVENT WILL ANY SITE VISITS BY THE STRUCTURAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF STRUCTURAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE,

PLAGIARISM. STRUCTURAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S

> (3-SECOND GUST), V = 103 MPHWIND SPEED, $V_{ASD} = 80$ MPH SURE COEFFICIENT, $K_z = 0.85 (0-15 \text{ FT})$ = 1.0 $OR, K_d = 0.85$ Ke⁻= 1.00

0.85

CH. 29) e V² = 19.6 PSF

[FIG. 29.4–1 THRU 29.4–4]

 $C_{S} = S_{DS}/(R/I_{e})$ 0.3(S_{DS})(I_P)(W_P) $1.6(S_{DS})(I_{P})(W_{P})$

DIMENSIONS

- 1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
- 2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
- 3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT NOTED ON STRUCTURAL DRAWINGS.
- 4. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

POST-INSTALLED ANCHORS

- 1. ACCEPTABLE EQUIVALENT MANUFACTURERS OF POST-INSTALLED EXPANSION ANCHORS AND SCREW ANCHORS SHALL BE HILTI INC., SIMPSON STRONG-TIE COMPANY INC., OR DEWALT, UNO.
- 2. TESTS FOR POST-INSTALLED ANCHORS IN HARDENED CONCRETE SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A, SECTION 1910A.5.
- 3. POST-INSTALLED ANCHOR INSTALLATION SHALL BE INSPECTED BY A SPECIAL INSPECTOR SPECIFICALLY APPROVED BY THE ENFORCEMENT AGENCY FOR THAT PURPOSE.
- 4. POST-INSTALLED ANCHOR TESTING SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR.
- 5. TEST QUANTITY OF POST-INSTALLED ANCHORS AS NOTED BELOW: APPLICATION <u>QUANTITY</u>
- NON-STRUCTURAL (EQUIP. ANCHORAGE, ETC.) 50% OF BOLTS
- 6. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TESTING FREQUENCY.
- 7. TORQUE TESTING SHALL BE APPLIED BY CALIBRATED WRENCH. TENSION TESTING (WHERE INDICATED) SHALL BE APPLIED BY HYDRAULIC JACK OR CALIBRATED SPRING LOADING DEVICE.
- 8. THE FOLLOWING CRITERIA SHALL APPLY FOR THE ACCEPTANCE OF INSTALLED POST-INSTALLED ANCHORS:
- A. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE ATTAINED WITHIN ONE-HALF ($\frac{1}{2}$) TURN OF THE NUT. SLEEVE ANCHORS $\frac{3}{8}$ INCH DIAMETER OR LESS MUST ATTAIN THE SPECIFIED TEST TORQUE WITHIN ONE-QUARTER ($\frac{1}{4}$) TURN OF THE NUT, AND THREADED ANCHORS MUST ATTAIN THE SPECIFIED TEST TORQUE WITHIN ONE-QUARTER (1_4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.
- B. HYDRAULIC RAM METHOD: (FOR TENSION TESTING WHERE INDICATED) ANCHORS SHALL MAINTAIN THE TENSION TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST. (AN EXAMPLE OF DISCERNABLE MOVEMENT WOULD BE LOOSENING OF THE WASHER UNDER THE NUT).

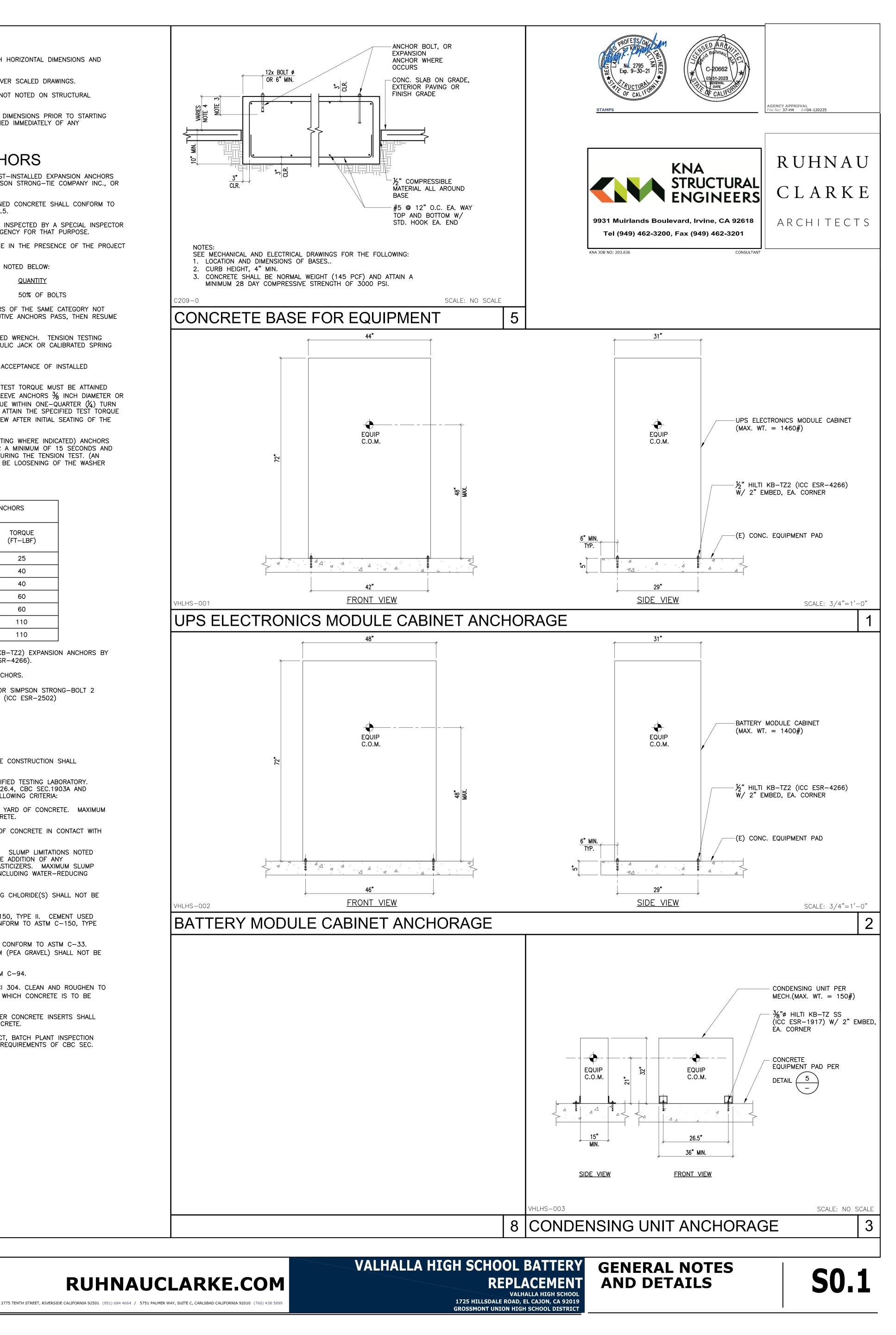
8. TEST LOADS (1)(2)(3)

	ST VALUES - EXPANSIO DRMAL WEIGHT CONCRE	
ANCHOR DIAMETER (INCH)	ANCHOR DEPTH (INCHES)	TORQUE (FT-LBF)
3%8	2	25
Ъ	2	40
/2	31⁄4	40
5%8	31/8	60
78	4	60
3⁄4	33⁄4	110
74	43⁄4	110

- (1) TEST VALUES ARE BASED ON KWIK BOLT TZ2 (KB-TZ2) EXPANSION ANCHORS BY HILTI, INC. (ICC EVALUATION REPORT NUMBER ESR-4266).
- (2) TEST VALUES ARE BASED ON CARBON STEEL ANCHORS.
- (3) VERIFY TORQUE VALUES WITH MANUFACTURER FOR SIMPSON STRONG-BOLT 2 (ICC ESR-3037) OR DEWALT POWER-STUD+SD2 (ICC ESR-2502)

CONCRETE

- 1. ALL PORTIONS OF WORK PERTAINING TO CONCRETE CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A.
- 2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. MIX DESIGNS SHALL CONFORM TO ACI 318, SEC. 26.4, CBC SEC.1903A AND 1904A. MIX DESIGNS SHALL INCORPORATE THE FOLLOWING CRITERIA:
- MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. MAXIMUM OF 7 SACKS OF CEMENT PER YARD OF CONCRETE.
- MAXIMUM WATER/CEMENT RATIO (BY WEIGHT) OF CONCRETE IN CONTACT WITH SOIL SHALL BE 0.45.
- MAXIMUM SLUMP SHALL NOT EXCEED 4" ± 1". SLUMP LIMITATIONS NOTED SHALL APPLY TO CONCRETE MIX PRIOR TO THE ADDITION OF ANY WATER-REDUCING ADMIXTURES OR SUPER-PLASTICIZERS. MAXIMUM SLUMP MAY BE INCREASED TO 5 + / - 1" FOR MIX INCLUDING WATER-REDUCING ADMIXTURES OR SUPER-PLASTICIZERS.
- CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDE(S) SHALL NOT BE USED
- 4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II. CEMENT USED FOR CONCRETE IN CONTACT WITH SOIL SHALL CONFORM TO ASTM C-150, TYPE
- 5. AGGREGATE FOR NORMALWEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. COMBINED AGGREGATE GRADATION OF $\frac{3}{8}$ " MAXIMUM (PEA GRAVEL) SHALL NOT BE USED.
- 6. READY MIXED CONCRETE SHALL CONFORM TO ASTM C-94.
- 7. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 304. CLEAN AND ROUGHEN TO $\frac{1}{4}$ " AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
- 8. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- 9. IF APPROVED BY DIVISION OF THE STATE ARCHITECT, BATCH PLANT INSPECTION MAY BE REDUCED TO PERIODIC SUBJECT TO THE REQUIREMENTS OF CBC SEC. 1705A.3.3.1.



	IANI
SYMBOL	ABBRE
× / / / / /	DOC
➡	POC POD
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	HHWS
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			INDOOR FAN SECTION															OUTDOO	R SECTION							COMBINED	CAPACITY					1			
SYMBOL	DESCRIPTION	SERVES				INDO	OR FAN M	IOTOR					FI	ILTERS	OPER.	SYMBOL	DESCRIPTION			EL	ECTRICAL D	ATA		OPER.			COC	DLING				HEATING		MIN. OSA	RE
			CFM	E.S.P.	H.P.	DRIVE	V	PH	Hz	MCA	FLA	MOCP	TK.	MIN. A F	T ² WT. LBS	S.		RLA	MCA	MOCP	V	PH	Hz	WT. LBS.	TOTAL CAI MBH	P. SENSIBLE CAP. MBH	AMB °F	ENT DB °F	ENT WB °F	SEER	AMB °F	OUTPUT MBH	HSPF	CFM	
FC 1	CARRIER 40MAQB36B3	ELECTRICAL ROOM - 100	870			DIRECT	208	1	60	0.40					50		CARRIER 38MAQB36R3		25.0	35.0	208	1	60	175	36.0	27.0	95	80	67	16.0					123
FC 2	CARRIER 40MAQB36B3	ELECTRICAL ROOM - 100	870			DIRECT	208	1	60	0.40					50		CARRIER 38MAQB36R3		25.0	35.0	208	1	60	175	36.0	27.0	95	80	67	16.0					123

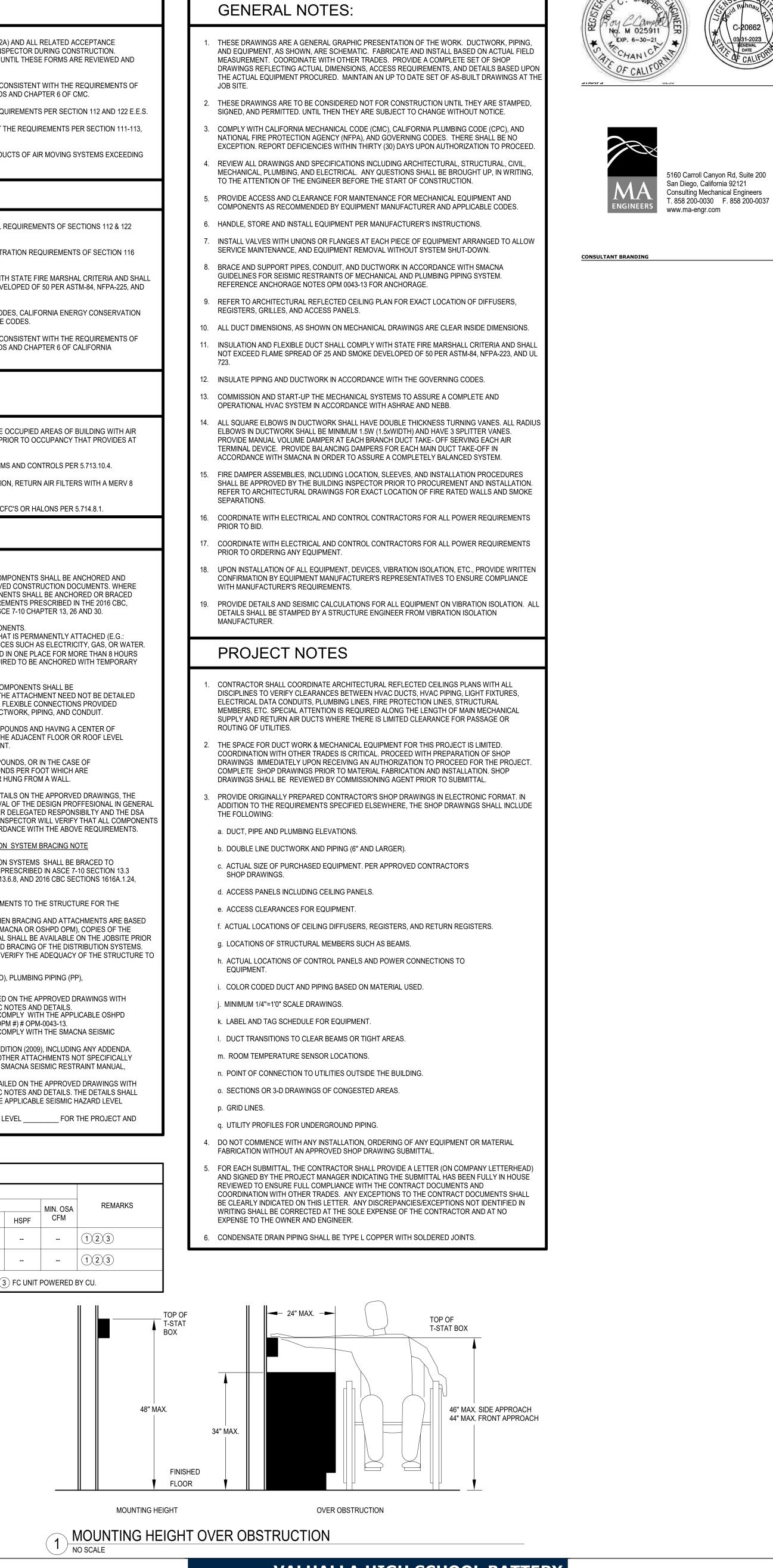
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AL L	EGEND	-			PLAN CHECK NOTES
	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION	1. CERTIFICATE OF ACCEPTANCE (MECH-2A AND ENV-2A)
	E EXISTING EQUIPMENT OR SHOWN DASHED		CD	DUCT TRANSITION CEILING DIFFUSER	DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSP CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UN
DEMOL	ITION		RR	RETURN REGISTER	APPROVED.
POINT (DF CONNECTION		ER	EXHAUST REGISTER	 ALL PIPING AND DUCT WORK SHALL BE INSULATED CO SECTIONS 118, 123, 124 TITLE 24 ENERGY STANDARDS
	DF DISCONNECT	(T)AC-3	T'STAT		3. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQU
	INATE WITH ELECTRICAL G HOT WATER SUPPLY	®	H'STAT	(NUMBER INDICATES EQUIPMENT ZONE SERVED) HUMIDISTAT	4. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MET TH
	G HOT WATER SUPPLY	Ś	SENSOR	OCCUPANCY SENSOR	115, 120-124 TITLE 24 ENERGY STANDARDS.
CHILLEI	D WATER	ŚW	SWITCH	CONTROL SWITCH	 PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUC 2000 CFM PER SECTION 609.0 CMC.
-	D WATER RETURN	(CO2)		CARBON DIOXIDE SENSOR	
-	D WATER SUPPLY		CFM	CUBIC FEET PER MINUTE	TITLE 24 NOTES
	NSATE DRAIN (A.C) NSER WATER RETURN			SYMBOL, SEE EQUIPMENT SCHEDULE	
	NSER WATER SUPPLY		AD/AP AFF	ACCESS DOOR / ACCESS PANEL ABOVE FINISHED FLOOR	 HVAC SYSTEMS SHALL MEET THE LATEST CONTROL R ENERGY EFFICIENCY STANDARDS.
DRAIN			BDD	BACK DRAFT DAMPER	 2. DOORS AND WINDOWS SHALL MEET MINIMUM INFILTR/
STEAM			BOD	BOTTOM OF DUCT	ENERGY EFFICIENCY STANDARDS.
	RESSURE STEAM // PRESSURE STEAM		BOP	BOTTOM OF PIPE (ABOVE FIN. FLR.)	3. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH
	RESSURE STEAM		CD		NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVE U.L. 723.
STEAM	CONDENSATE RETURN		CLG. CFM	CEILING CUBIC FEET PER MINUTE	4. ALL WORK SHALL BE IN ACCORDANCE WITH CITY COD
REFRIG	ERANT DISCHARGE		CONC.	CONCRETE	STANDARDS, TITLE - 24, AND ALL OTHER APPLICABLE C
_			CONT.	CONTINUATION	 ALL PIPING AND DUCT WORK SHALL BE INSULATED CO SECTIONS 118, 123, 124 TITLE 24 ENERGY STANDARDS
PIPE DC	ERANT SUCTION		°F	DEGREES FAHRENHEIT	MECHANICAL CODE.
PIPE UF		Ø	DIA.	DIAMETER	CA GREEN BUILDING
PIPE RI	SE (OR DN. FOR DROP)		DN. DWGS.	DOWN DRAWINGS	NOTES
	ION OF FLOW IN PIPE		DB	DRY BULB	NOTES
	NT (VALVE)		DTR	DUCT THRU ROOF	1. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE C
	VALVE		(E)	EXISTING	FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRI LEAST MERV OF 8 (REF. SECTION 5.504.5.3).
	OL VALVE (2-WAY)		EA		 PROVIDE TESTING AND ADJUSTING OF HVAC SYSTEMS
CONTR	OL VALVE (3-WAY)		ER EFF.	EXHAUST REGISTER EFFICIENCY	3. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION
AUTOM	ATIC FLOW CONTROL DEVICE		ELEV.	ELEVATION	RATING SHALL BE USED PER 5.714.4.1.
GATE V			ENT.	ENTERING	4. INSTALLED HVAC EQUIPMENT SHALL NOT CONTAIN CF
	BALL/BUTTERFLY VALVE		EWT	ENTERING WATER TEMPERATURE	
	ELEMENT VENTURI		EXH.	EXHAUST	ANCHORAGE NOTES:
VALVE	ON RISE OR DROP		EXIST. FF	EXISTING FINISHED FLOOR	MEP COMPONENT ANCHORAGE NOTE
STRAIN			FIN.	FINISH	ALL MECHANICAL, PLUMBING, AND ELECTRICAL COM
CAPPE			FLR.	FLOOR	INSTALLED PER THE DETAILS ON THE DSA APPROVED NO DETAIL IS INDICATED THE FOLLOWING COMPONE
RISE OF			GPM	GALLONS PER MINUTE	TO MEET THE FORCE AND DISPLACEMENT REQUIREM SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE
	JRE RELIEF VALVE		IN.	INCH	1. ALL PERMANENT EQUIPMENT AND COMPON
PRESSI	JRE GAUGE WITH BALL VALVE		HD. HOA	HEAD HAND-OFF-AUTOMATIC	2. TEMPORARY OR MOVABLE EQUIPMENT THAT HARD-WIRED) TO BUILDING UTILITY SERVICE
	TRIC REDUCER		HP	HORSEPOWER	3. MOVABLE EQUIPMENT THAT IS STATIONED I AND HEAVIER THAN 400 POUNDS IS REQUIR
			LD	LINEAR DIFFUSER	ATTACHMENTS.
	LE CONNECTION (PIPE) (ELL (PETE'S PLUG) - PRESSURE		LVG.	LEAVING	THE FOLLOWING MECHANICAL AND ELECTRICAL COM POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE
	R TEMPERATURE		LWT MAX.	LEAVING WATER TEMPERATURE	ON THE PLANS. THESE COMPONENTS SHALL HAVE FL BETWEEN THE COMPONENT AND ASSOCIATED DUCT
THERM	OMETER		MAX. MBH	ONE THOUSAND B.T.U.'S PER HOUR	A. COMPONENTS WEIGHING LESS THAN 400 PC
PIPE AN	ICHOR		MECH.	MECHANICAL	MASS LOCATED 4 FEET OR LESS ABOVE THE THAT DIRECTLY SUPPORT THE COMPONENT
UNION			MIN.	MINIMUM	B. COMPONENTS WEIGHING LESS THAN 20 POL
	ORK (1ST NUMBER INDICATES WIDTH I), NET INSIDE DIMENSION		MTD.	MOUNTED	DISTRIBUTED SYSTEMS LESS THAN 5 POUND SUSPENDED FROM A ROOF OR FLOOR OR H
SQUAR	E ELBOW WITH TURNING VANES		MTG. NC	MOUNTING NORMALLY CLOSED	FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETA
RADIUS	ELBOW		NO	NORMALLY OPEN	INSTALLATION SHALL BE SUBJECT TO THE APPROVAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER
			OBD	OPPOSED BLADE DAMPER	DISTRICT STRUCTURAL ENGINEER. THE PROJECT INS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORD
	OPERATED DAMPER		OA	OUTSIDE AIR	PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION
FIRE DA			PD	PRESSURE DROP	PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION
DUCT N	IOUNTED SMOKE DETECTOR		PSIG RA	POUNDS PER SQUARE INCH GAUGE RETURN AIR	COMPLY WITH THE FORCES AND DISPLACEMENTS PR AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.0
AUTOM	ATIC SMOKE AND FIRE DAMPER		REG.	REGISTER	1616A.1.25 AND 1616A.1.26.
	E CONNECTION (DUCTWORK)		RR	RETURN REGISTER	THE METHOD OF SHOWING BRACING AND ATTACHME IDENTIFIED
			SA	SUPPLY AIR	DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMA
FLEXIBL	LE CONNECTION OR SEISMIC JOINT				
LINED D	DUCTWORK (OR PLENUM)		SF	SQUARE FEET	BRACING SYSTEM INSTALLATION GUIDE OR MANUAL TO THE START OF AND DURNING THE HANGING AND
LINED D DUCT R	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW		SF SS	SQUARE FEET STAINLESS STEEL	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE
LINED D DUCT R DUCT D	DUCTWORK (OR PLENUM)		SF SS ST	STAINLESS STEEL STEAM	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS.
LINED D DUCT R DUCT D ROUND	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW ROP IN DIRECTION OF FLOW		SF SS ST TYP.	STAINLESS STEEL STEAM TYPICAL	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), ELECTRICAL DISTRIBUTION SYSTEMS (E):
LINED D DUCT R DUCT D ROUND ROUND	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW PROP IN DIRECTION OF FLOW DUCT UP		SF SS ST	STAINLESS STEEL STEAM	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP() MD() PP() E() - OPTION 1: DETAILED PROJECT SPECIFIC N
LINED D DUCT R DUCT D ROUND ROUND SUPPLY	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW PROP IN DIRECTION OF FLOW DUCT UP DUCT DOWN (DUCT UP (DUCT DOWN		SF SS ST TYP. U/C	STAINLESS STEEL STEAM TYPICAL UNDER CUT	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP() MD() PP() E() - OPTION 1: DETAILED PROJECT SPECIFIC N MP(X) MD(X) PP() E() - OPTION 2: SHALL COP PRE-APPROVED (OPN
LINED D DUCT R DUCT D ROUND ROUND SUPPLY RETURI	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW PROP IN DIRECTION OF FLOW DUCT UP DUCT DOWN Y DUCT DOWN N AIR DUCT/OUTSIDE AIR DUCT UP		SF SS ST TYP. U/C UNO UOS UTR	STAINLESS STEEL STEAM TYPICAL UNDER CUT UNLESS NOTED OTHERWISE UNLESS OTHERWISE SPECIFIED UP THRU ROOF	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP() MD() PP() E() - OPTION 1: DETAILED PROJECT SPECIFIC N MP(X) MD(X) PP() E() - OPTION 2: SHALL CON PRE-APPROVED (OPN MP() MD() PP(X) - OPTION 3: SHALL CON
LINED D DUCT R DUCT D ROUND ROUND SUPPLY RETURI RETURI	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW PROP IN DIRECTION OF FLOW DUCT UP DUCT DOWN (DUCT UP (DUCT DOWN		SF SS ST TYP. U/C UNO UOS UTR VAV	STAINLESS STEEL STEAM TYPICAL UNDER CUT UNLESS NOTED OTHERWISE UNLESS OTHERWISE SPECIFIED UP THRU ROOF VARIABLE AIR VOLUME	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP() MD() PP() E() - OPTION 1: DETAILED PROJECT SPECIFIC N MP(X) MD(X) PP() E() - OPTION 2: SHALL COM PRE-APPROVED (OPN MP() MD() PP(X) - OPTION 3: SHALL COM
LINED D DUCT R DUCT D ROUND ROUND SUPPLY RETURI RETURI EXHAUS	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW PROP IN DIRECTION OF FLOW DUCT UP DUCT DOWN Y DUCT UP Y DUCT DOWN N AIR DUCT/OUTSIDE AIR DUCT UP		SF SS ST TYP. U/C UNO UOS UTR	STAINLESS STEEL STEAM TYPICAL UNDER CUT UNLESS NOTED OTHERWISE UNLESS OTHERWISE SPECIFIED UP THRU ROOF	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP() MD() PP() E() - OPTION 1: DETAILED PROJECT SPECIFIC N MP(X) MD(X) PP() E() - OPTION 2: SHALL CON PRE-APPROVED (OPN MP() MD() PP(X) - OPTION 3: SHALL CON RESTRAINT MANUAL, OSHPD EDI
LINED D DUCT R DUCT D ROUND ROUND SUPPLY RETURI RETURI EXHAUS	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW PROP IN DIRECTION OF FLOW DUCT UP DUCT DOWN (DUCT DOWN N AIR DUCT/OUTSIDE AIR DUCT UP N AIR DUCT/OUTSIDE AIR DUCT DOWN ST AIR DUCT UP		SF SS ST TYP. U/C UNO UOS UTR VAV VFD	STAINLESS STEEL STEAM TYPICAL UNDER CUT UNLESS NOTED OTHERWISE UNLESS OTHERWISE SPECIFIED UP THRU ROOF VARIABLE AIR VOLUME VARIABLE FREQUENCY DRIVE	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP() MD() PP() E() - OPTION 1: DETAILED PROJECT SPECIFIC N MP() MD() PP() E() - OPTION 1: DETAILED PROJECT SPECIFIC N MP() MD() PP() E() - OPTION 2: SHALL COM PRE-APPROVED (OPN MP() MD() PP(X) - OPTION 3: SHALL COM RESTRAINT MANUAL, OSHPD EDIT FASTENERS AND OTH IDENTIFIED IN THE SM OSHPD EDITION, ARE DETAIL
LINED D DUCT R DUCT D ROUND ROUND SUPPLY RETURI RETURI EXHAUS	DUCTWORK (OR PLENUM) RISE IN DIRECTION OF FLOW PROP IN DIRECTION OF FLOW DUCT UP DUCT DOWN (DUCT DOWN N AIR DUCT/OUTSIDE AIR DUCT UP N AIR DUCT/OUTSIDE AIR DUCT DOWN ST AIR DUCT UP		SF SS ST TYP. U/C UNO UOS UTR VAV VFD VTR	STAINLESS STEEL STEAM TYPICAL UNDER CUT UNLESS NOTED OTHERWISE UNLESS OTHERWISE SPECIFIED UP THRU ROOF VARIABLE AIR VOLUME VARIABLE FREQUENCY DRIVE VENT THRU ROOF	TO THE START OF AND DURNING THE HANGING AND E THE STRUCTURAL ENGINEER OF RECORDS SHALL VE SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP() MD() PP() E() - OPTION 1: DETAILED PROJECT SPECIFIC N MP() MD() PP() E() - OPTION 2: SHALL COM PRE-APPROVED (OPM MP() MD() PP(X) - OPTION 3: SHALL COM RESTRAINT MANUAL, OSHPD EDIT FASTENERS AND OTH IDENTIFIED IN THE SM OSHPD



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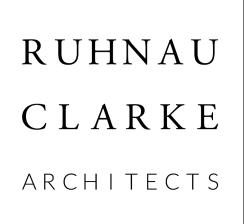
VALHALLA HIGH SCHOOL BATTERY REPLACEMENT VALHALLA HIGH SCHOOL 1725 HILLSDALE ROAD, EL CAJON, CA 92019 GROSSMONT UNION HIGH SCHOOL DISTRICT

MECHANICAL LEGEND AND GENERAL NOTES



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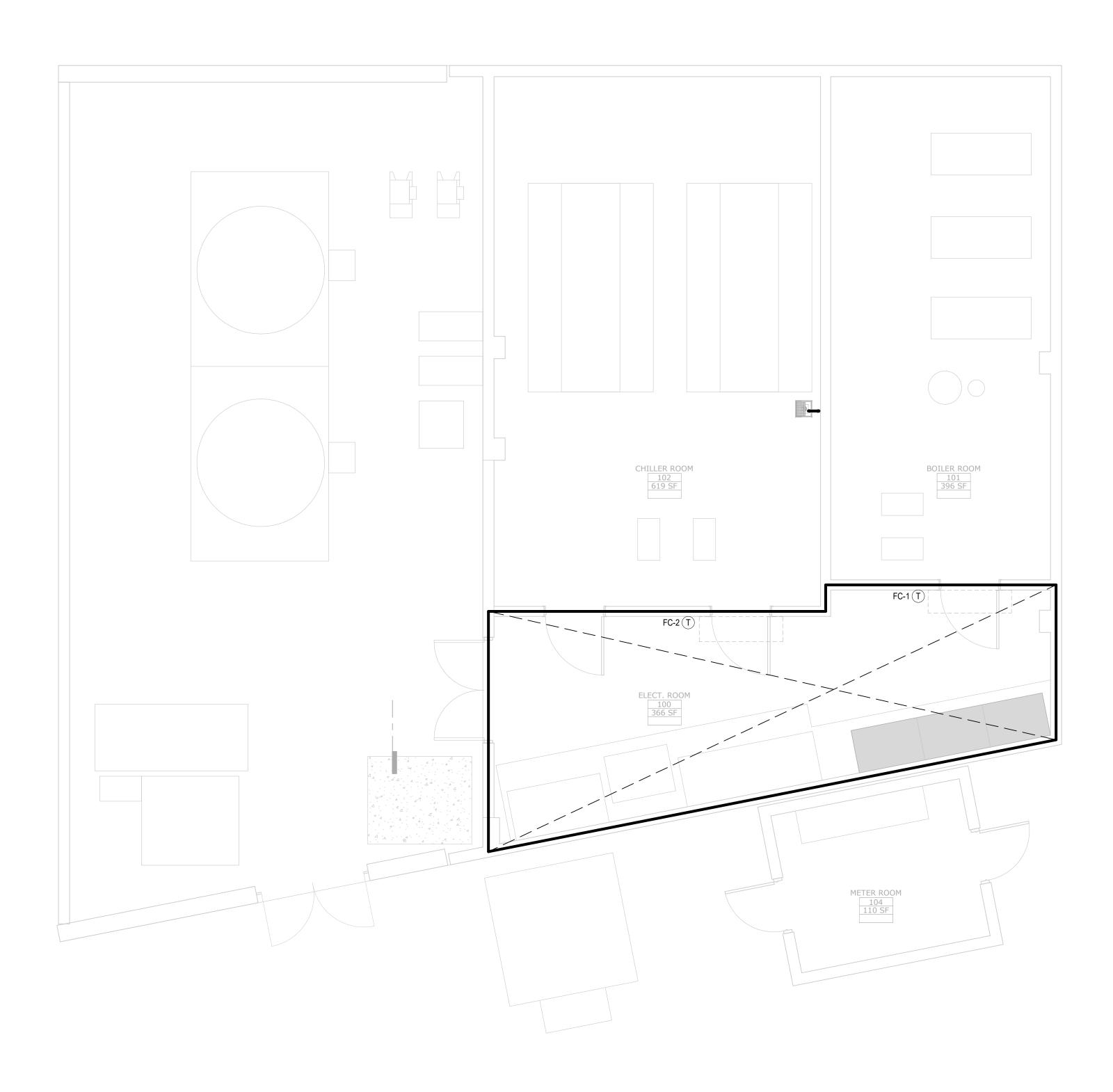




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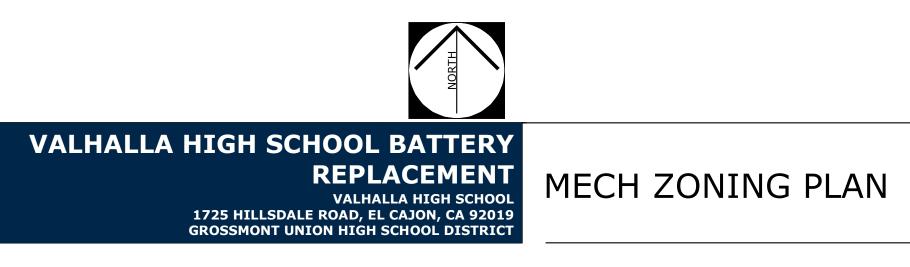
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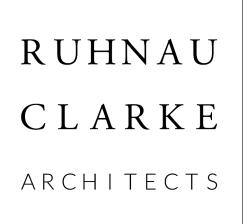
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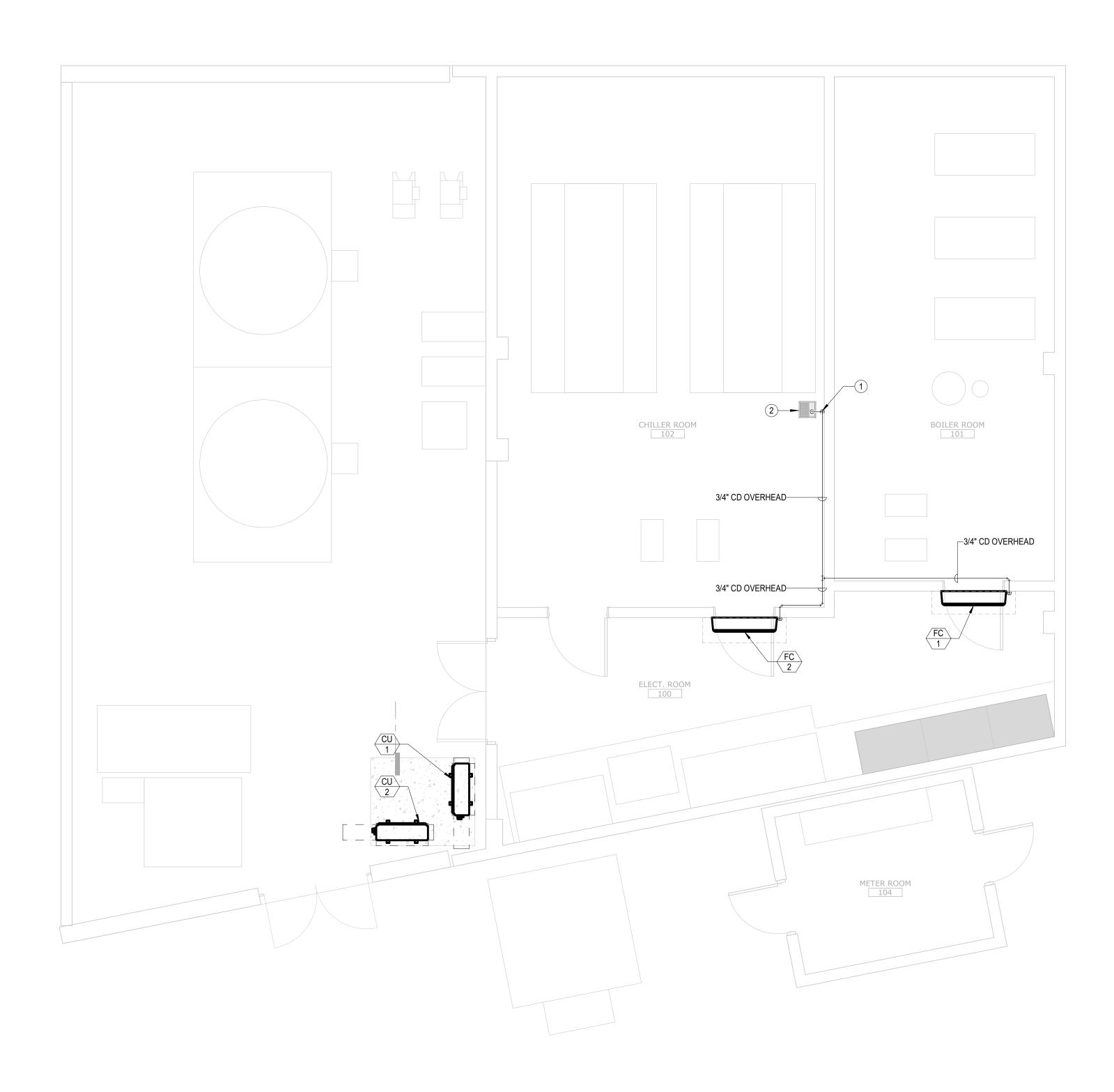
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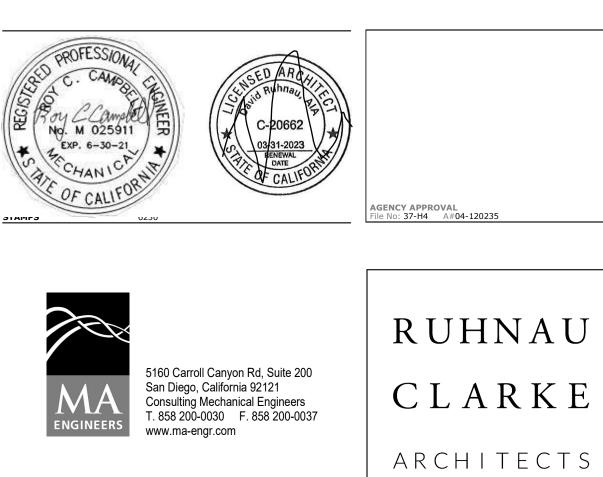
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1 MECH FLOOR PLAN 1/4" = 1'-0"







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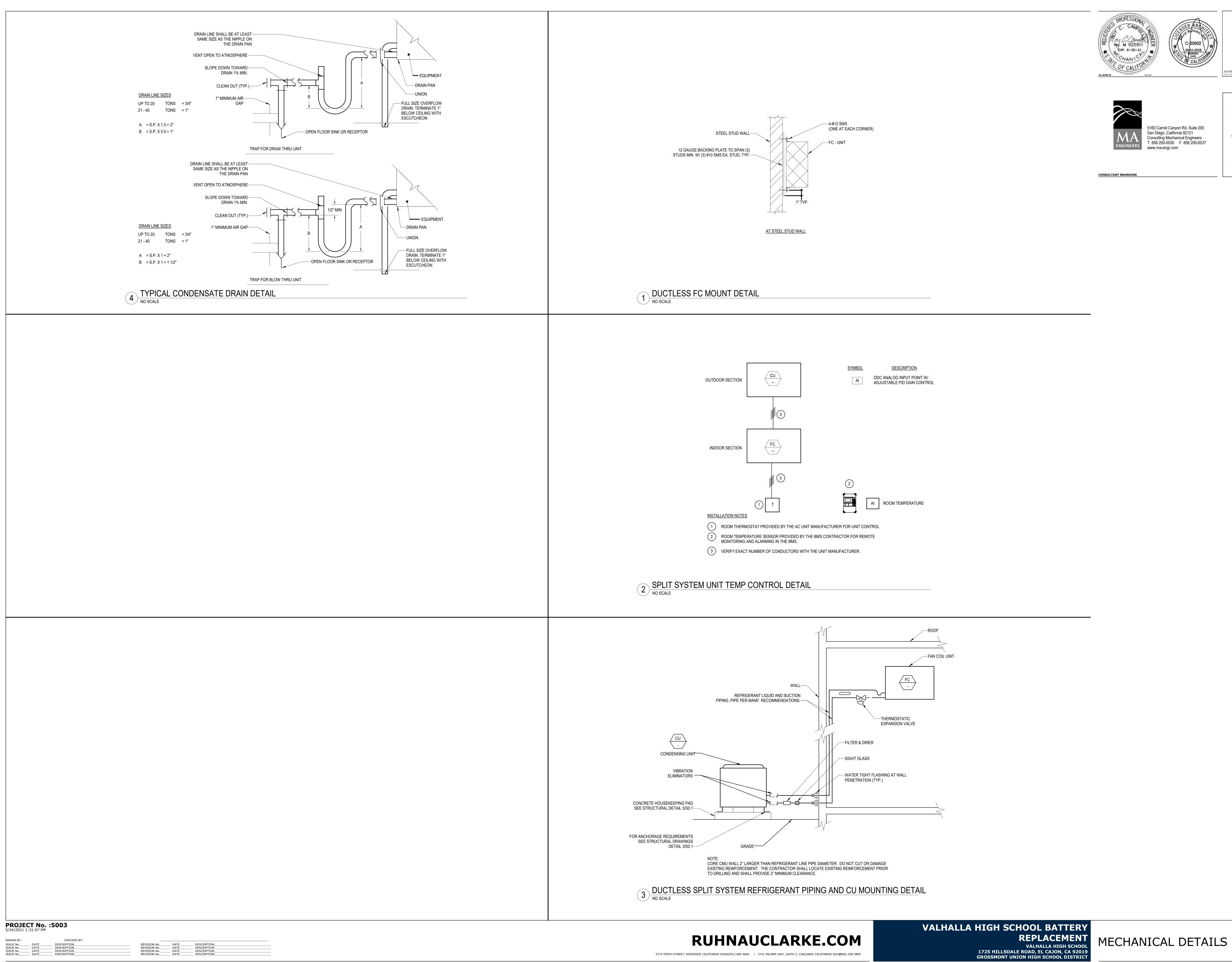
KEYNOTES (--) 3/4" CONDENSATE DRAIN DOWN WALL AND DRAIN INDIRECT TO FLOOR SINK. EXISTING FLOOR SINK. 1 2







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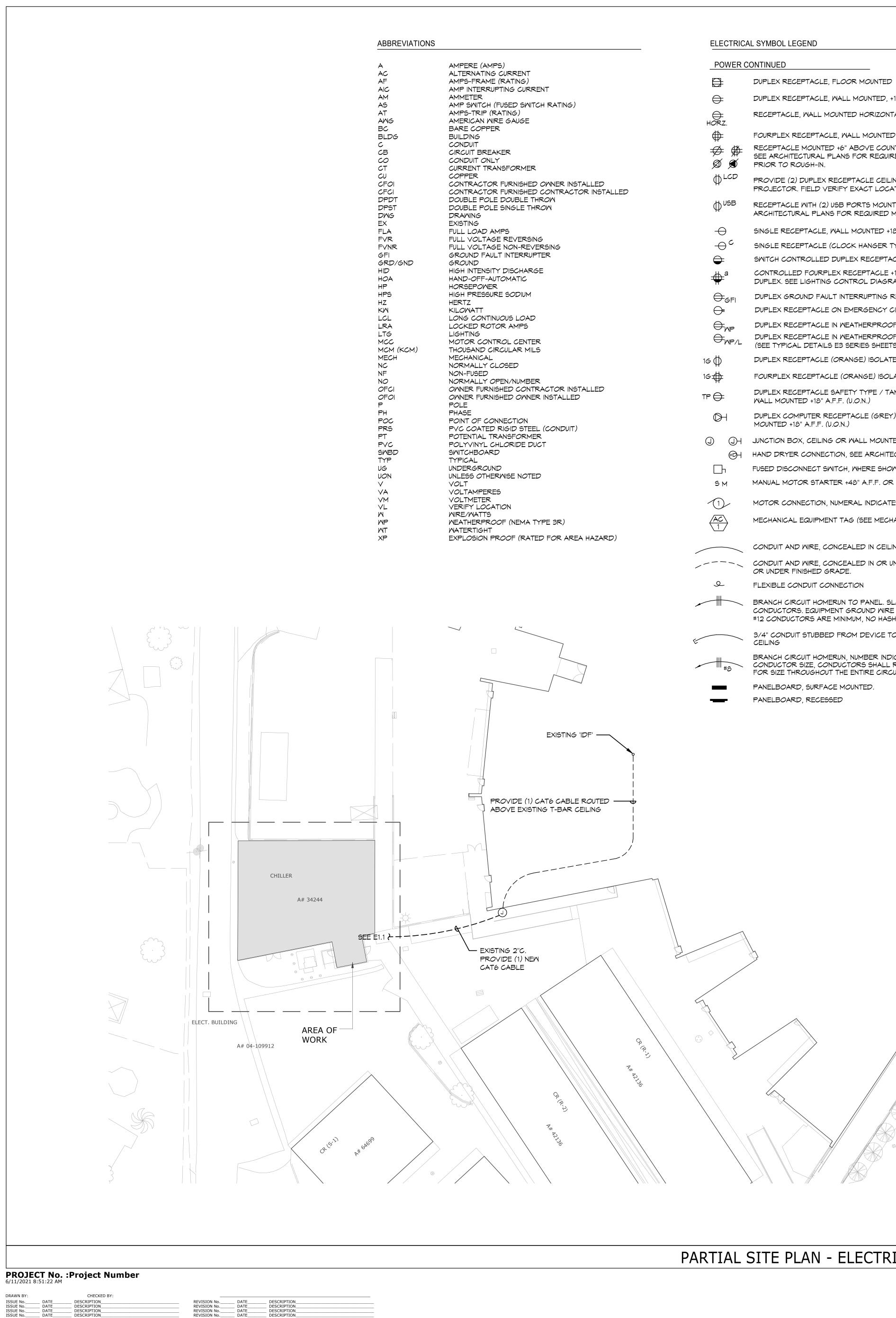








5003



	ELECTRICA	AL SYMBOL LEGEND
	POWERC	ONTINUED
JRRENT ATING)		DUPLEX RECEPTACLE, FLOOR MOUNTED
NG CURRENT	 ₽	DUPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.)
SED SWITCH RATING) ING)	_	RECEPTACLE, WALL MOUNTED HORIZONTALLY, +18" A.F.F. (U.O.N.)
GAUGE	HORZ.	
_		FOURPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.) RECEPTACLE MOUNTED +6" ABOVE COUNTER BACKSPLASH
R	\	SEE ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN.
FORMER		PROVIDE (2) DUPLEX RECEPTAGLE CEILING MOUNTED LOCATE ADJACENT TO
JRNISHED OWNER INSTALLED JRNISHED CONTRACTOR INSTALLED		PROJECTOR. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
OUBLE THROW INGLE THROW	Φ^{USB}	RECEPTACLE WITH (2) USB PORTS MOUNTED +6" ABOVE COUNTER BACKSPLASH. SEE ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN. EATON #TR7756
S REVERSING	$-\ominus$	SINGLE RECEPTACLE, WALL MOUNTED +18" A.F.F. (U.O.N.)
NON-REVERSING NTERRUPTER	\ominus^{c}	SINGLE RECEPTACLE (CLOCK HANGER TYPE) WALL MOUNTED +7'-0" A.F.F. (U.O.N.)
DISCHARGE	e	SWITCH CONTROLLED DUPLEX RECEPTACLE +18" U.O.N.
MATIC	⊕ ^a	CONTROLLED FOURPLEX RECEPTACLE +18" U.O.N. (1) DUPLEX, (1) HALF HOT CONTROLLED DUPLEX. SEE LIGHTING CONTROL DIAGRAMS FOR FURTHER INFO.
SODIUM		DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE +18" A.F.F. (U.O.N.)
US LOAD	\ominus	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT +18" A.F.F. (U.O.N.)
. AMPS		DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE +18" A.F.F. (U.O.N.)
DL CENTER		DUPLEX RECEPTACLE IN WEATHERPROOF "LOCKING" ENCLOSURE +18" A.F.F. (U.O.N.) (SEE TYPICAL DETAILS E3 SERIES SHEETS AND SPECIFICATIONS FOR REQUIRED TYPE).
JLAR MILS	1G 🕁	DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED +18" A.F.F. (U.O.N.)
	16 ∰	FOURPLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED +18" A.F.F. (U.O.N.)
N/NUMBER ED CONTRACTOR INSTALLED		DUPLEX RECEPTACLE SAFETY TYPE / TAMPER PROOF
ED OWNER INSTALLED	⊕ =⊤ ⊮	WALL MOUNTED +18" A.F.F. (U.O.N.) DUPLEX COMPUTER RECEPTACLE (GREY), WALL
ECTION GID STEEL (CONDUIT)		MOUNTED +18" A.F.F. (U.O.N.)
ISFORMER ORIDE DUCT		JUNCTION BOX, CEILING OR WALL MOUNTED
	_ ⊕H	HAND DRYER CONNECTION, SEE ARCHITECTURAL FOR MOUNTING HEIGHT.
ISE NOTED	Lh	FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED.
	SM	MANUAL MOTOR STARTER +48" A.F.F. OR ON EQUIPMENT (U.O.N.)
N		MOTOR CONNECTION, NUMERAL INDICATES HORSEPOWER.
(NEMA TYPE 3R)	$\left\langle \overrightarrow{AC} \right\rangle$	MECHANICAL EQUIPMENT TAG (SEE MECHANICAL DRAWINGS FOR DESCRIPTION)
OF (RATED FOR AREA HAZARD)		
		CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL
		CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR OR UNDER FINISHED GRADE.
	Q	FLEXIBLE CONDUIT CONNECTION
		BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED U.O.N.
		#12 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #12 3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE
	ε III	CEILING BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED
	#8	CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT.
		PANELBOARD, SURFACE MOUNTED.
	—	PANELBOARD, RECESSED
EXISTING 'IDF'		
VIDE (1) CAT6 CABLE ROUTED		
	\	
G 2"C.	4	A
ABLE	-	\mathcal{A}
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R R. J	() X	
P# 221-36	$\backslash \rangle$	
CR (R. L)	\setminus	

PARTIAL SITE PLAN - ELECTRICAL

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GENERAL PROJECT NOTES:

- 1. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
- 2. UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
- 3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
- 4. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

GENERAL DEMOLITION NOTES:

- 1. ALL ELECTRICAL EQUIPMENT, EXPOSED RACEWAY AND CONDUIT, OUTLET BOXES AND RINGS, AND DEVICES ARE TO BE REMOVED, EXCEPT WHERE SHOWN TO REMAIN. EXISTING WIRING, WHETHER EXPOSED, IN CONDUIT OR RACEWAY IS TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE.
- 2. THE ELECTRICAL CONTRACTOR IS TO DIRECT THE REMOVAL OF THE ABOVE LISTED WORK.

MEP COMPONENT ANCHORAGE NOTE:

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

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

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

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

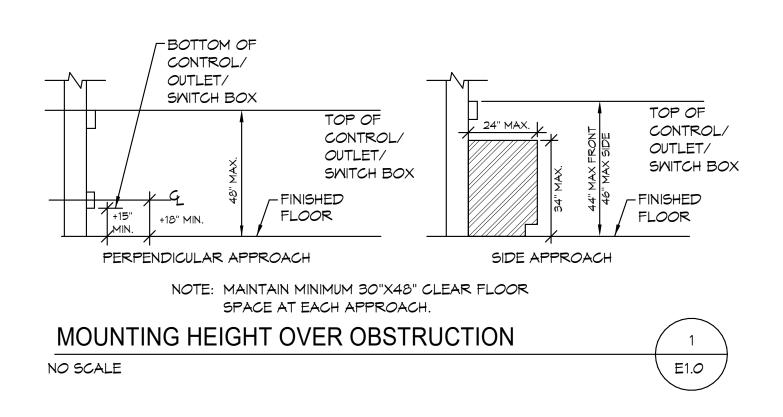
SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

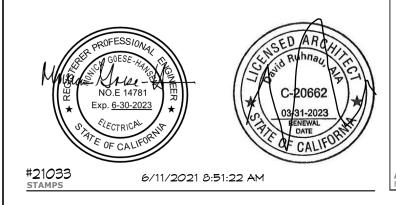
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. 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.

 $\mathsf{MP} \square \mathsf{MD} \square \mathsf{PP} \square \mathsf{E} \square - \mathsf{OPTION} 2: \mathsf{SHALL} \mathsf{COMPLY} \mathsf{WITH} \mathsf{THE} \mathsf{APPLICABLE} \mathsf{OSHPD}$ PRE-APPROVED (OPM#) #





JOHNSON CONSULTING ENGINEERS, INC.

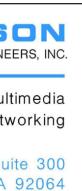
Power Lighting Multimedia Communications | Data Networking

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CONSULTANT BRANDING

VALHALLA HIGH SCHOOL BATTERY ELECTRICAL SYMBOLS, REPLACEMENT VALHALLA HIGH SCHOOL 1725 HILLSDALE ROAD, EL CAJON, CA 92019 **GROSSMONT UNION HIGH SCHOOL DISTRICT**

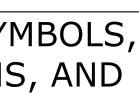
ABBREVIATIONS, AND NOTES



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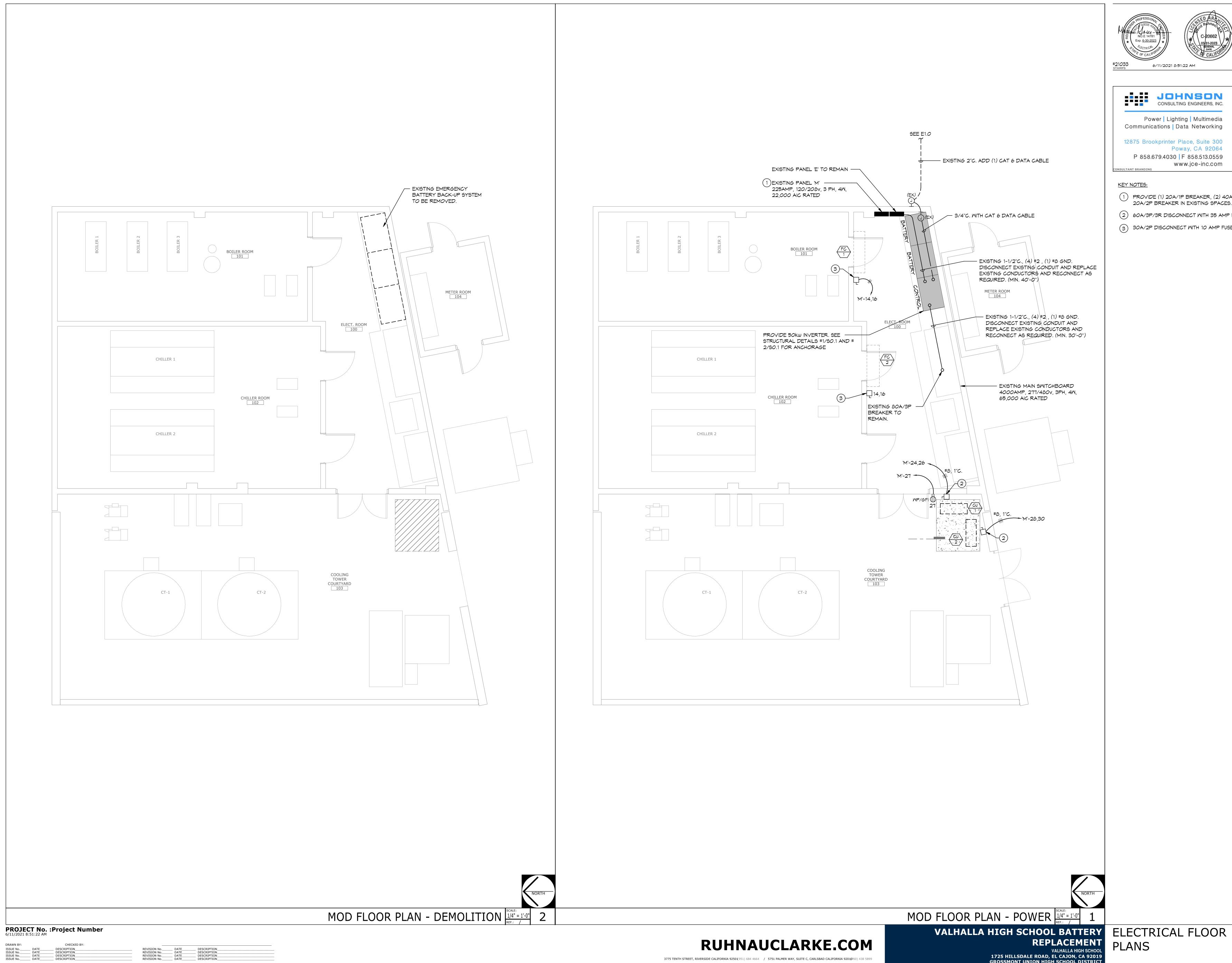
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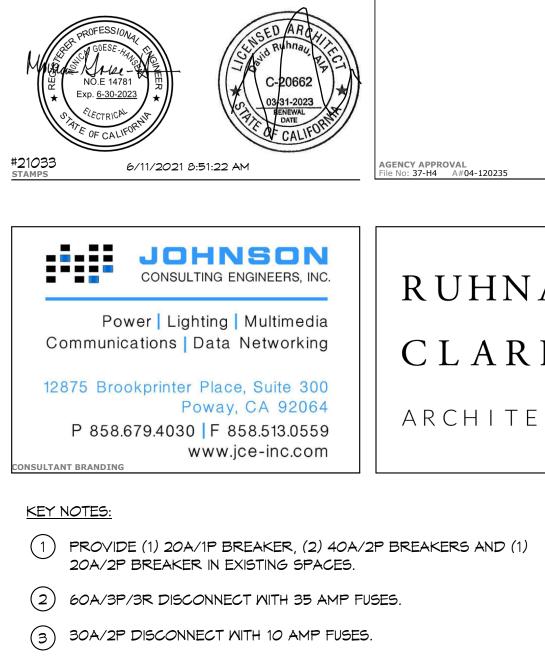




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