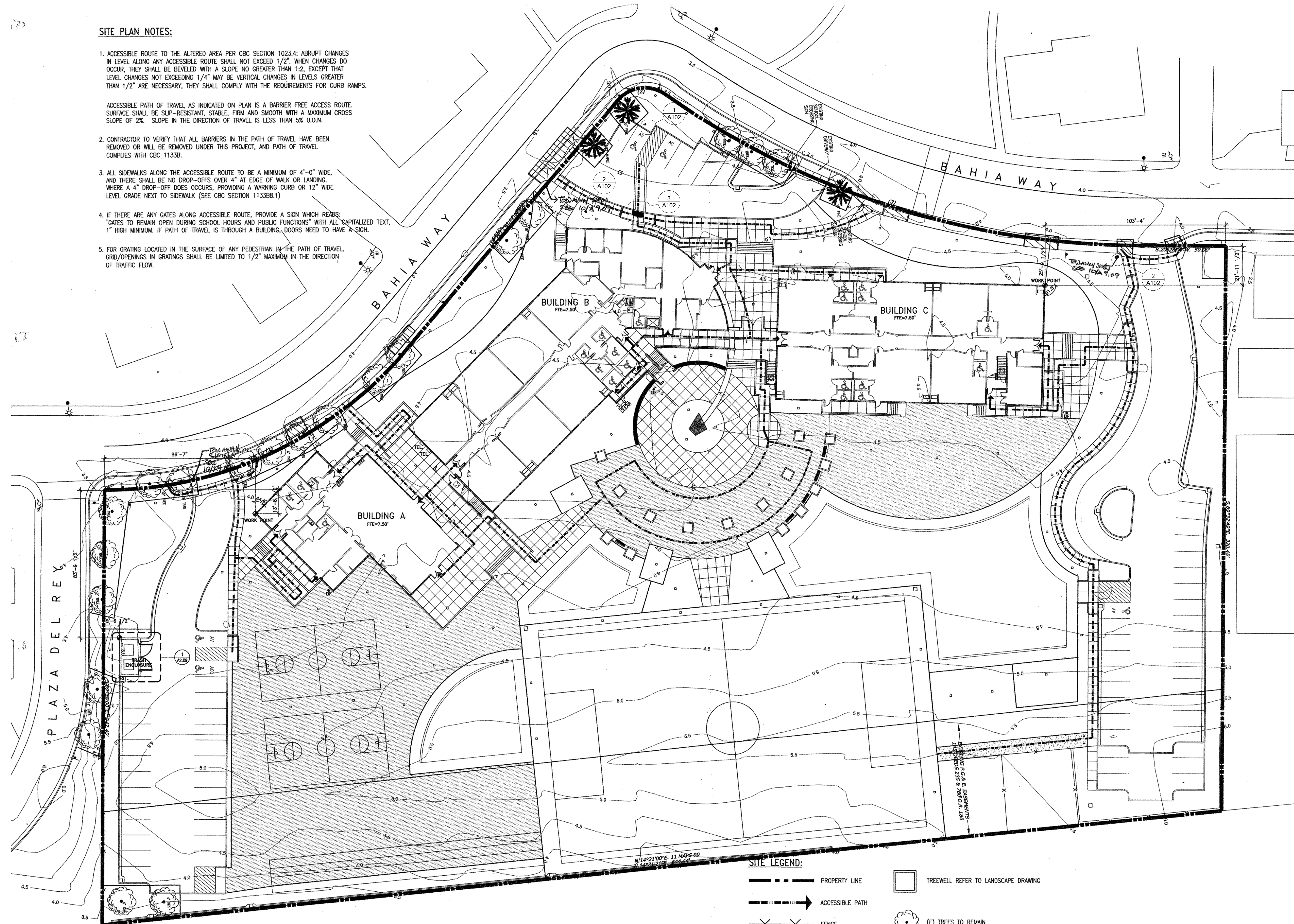


SITE PLAN NOTES:

1. ACCESSIBLE ROUTE TO THE ALTERED AREA PER CBC SECTION 1023.4: ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2". WHEN CHANGES DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL CHANGES IN LEVELS GREATER THAN 1/2" ARE NECESSARY, THEY SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS.

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE. SURFACE SHALL BE SLIP-RESISTANT, STABLE, FIRM AND SMOOTH WITH A MAXIMUM CROSS-SLOPE OF 2%. SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% U.O.N.
2. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 1133B.
3. ALL SIDEWALKS ALONG THE ACCESSIBLE ROUTE TO BE A MINIMUM OF 4'-0" WIDE, AND THERE SHALL BE NO DROP-OFFS OVER 4" AT EDGE OF WALK OR LANDING. WHERE A 4" DROP-OFF DOES OCCUR, PROVIDING A WARNING CURB OR 12" WIDE LEVEL GRADE NEXT TO SIDEWALK (SEE CBC SECTION 1133B.1)
4. IF THERE ARE ANY GATES ALONG ACCESSIBLE ROUTE, PROVIDE A SIGN WHICH READS: "GATES TO REMAIN OPEN DURING SCHOOL HOURS AND PUBLIC FUNCTIONS" WITH ALL CAPITALIZED TEXT, 1" HIGH MINIMUM. IF PATH OF TRAVEL IS THROUGH A BUILDING, DOORS NEED TO HAVE A SIGN.
5. FOR GRATING LOCATED IN THE SURFACE OF ANY PEDESTRIAN IN THE PATH OF TRAVEL, GRID/OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2" MAXIMUM IN THE DIRECTION OF TRAFFIC FLOW.



SITE LEGEND:

PROPERTY LINE	TREEWELL REFER TO LANDSCAPE DRAWING
ACCESSIBLE PATH	(E) TREES TO REMAIN
FENCE	BENCH REFER TO LANDSCAPE DRAWING
CONCRETE PAVING	(E) FIRE HYDRANT
ASPHALT PAVING	ACC. DRINKING FOUNTAIN W/TRUNCATED DOMES (PROVIDE CONC. FTD PER MFR.)

- ACCESSIBLE PATH OF TRAVEL NOTES:**
1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT CHANGES. CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2" HIGH SHALL BE RAMPED AND SHALL COMPLY WITH SECTION 11B-404 OR 11B-405. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
 2. RAMP IS REQUIRED WHERE THE CHANGE IN LEVEL EXCEEDS 1/2". RAMP USED AS PART OF MEANS OF EGRESS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (8% SLOPE) PER CBC SECTION 1012.
 3. CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED PER SECTION 11B-202.4.
 4. ALL EXTERIOR ENTRANCES AND EXITS IDENTIFIED WITH A TRIANGULAR SYMBOL ▲ ON THIS PLAN ARE ACCESSIBLE AND COMPLY WITH CBC 11B-202.4 INCLUDING:
 - A. 32" CLEAR OPENING MINIMUM
 - B. REQUIRED STRIKE EDGE CLEARANCE AT PULL SIDE OF DOOR (24" FOR FRONT AND LATCH, 36" FOR HINGE APPROACH);
 - C. ACCESSIBLE THRESHOLD, HARDWARE (LEVEL), CLOSER, 10" KICK PLATE.
 5. THRESHOLDS AT DOORWAYS, CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2 11B-303.3
 6. ALL OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. 11B-309.4, 11B606.4
 7. VERIFY ALL PROTRUDING OBJECTS - HAND DRYERS, TV'S SIGNAGE, FIRE EXTINGUISHERS, ECT. ARE IN COMPLIANCE WITH 11B-307 OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4" MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.
 8. (E) TRUNCATED DOME STRIP AT 9" FROM CURB ACROSS ENTRY TO SIDEWALK AREA. PER CBC 11B-705

REVISION	DESCRIPTION	INITIAL	DATE



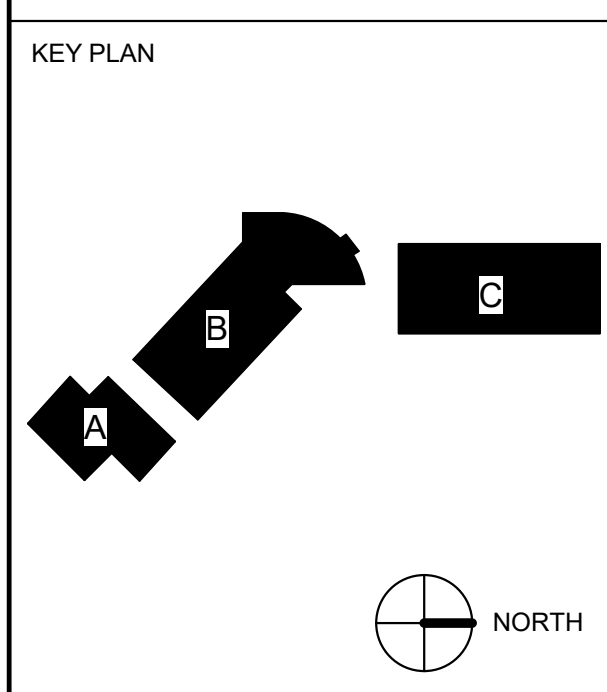
CONSULTANT:

INTERACTIVE RESOURCES
architects + engineers

117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94801
(510) 236-7435
www.itres.com

PROJECT:
HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

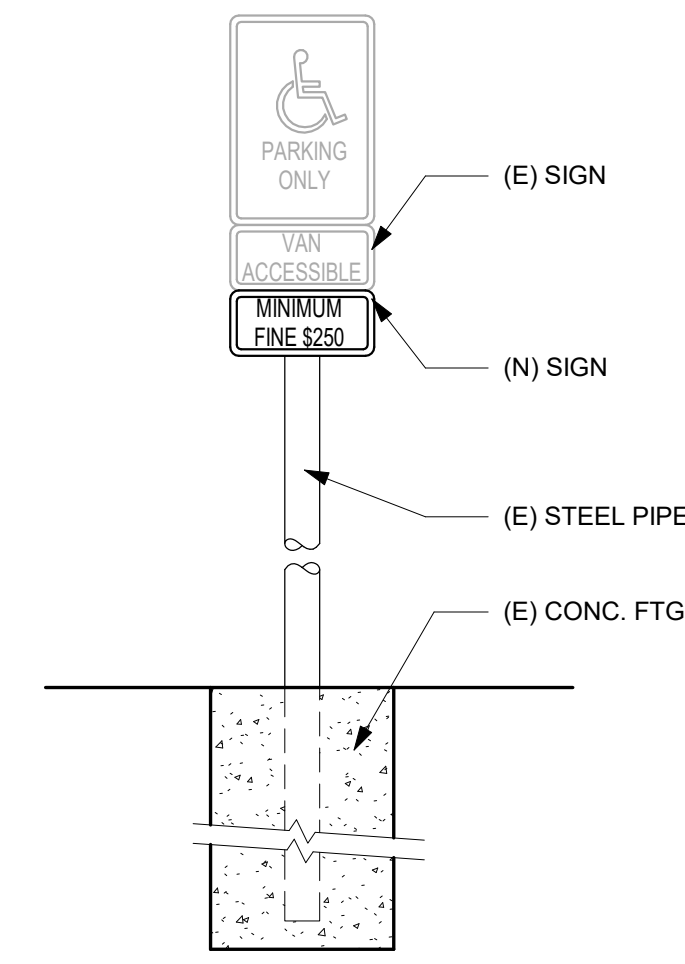
125 BAHIA WAY
SAN RAFAEL, CA. 94901



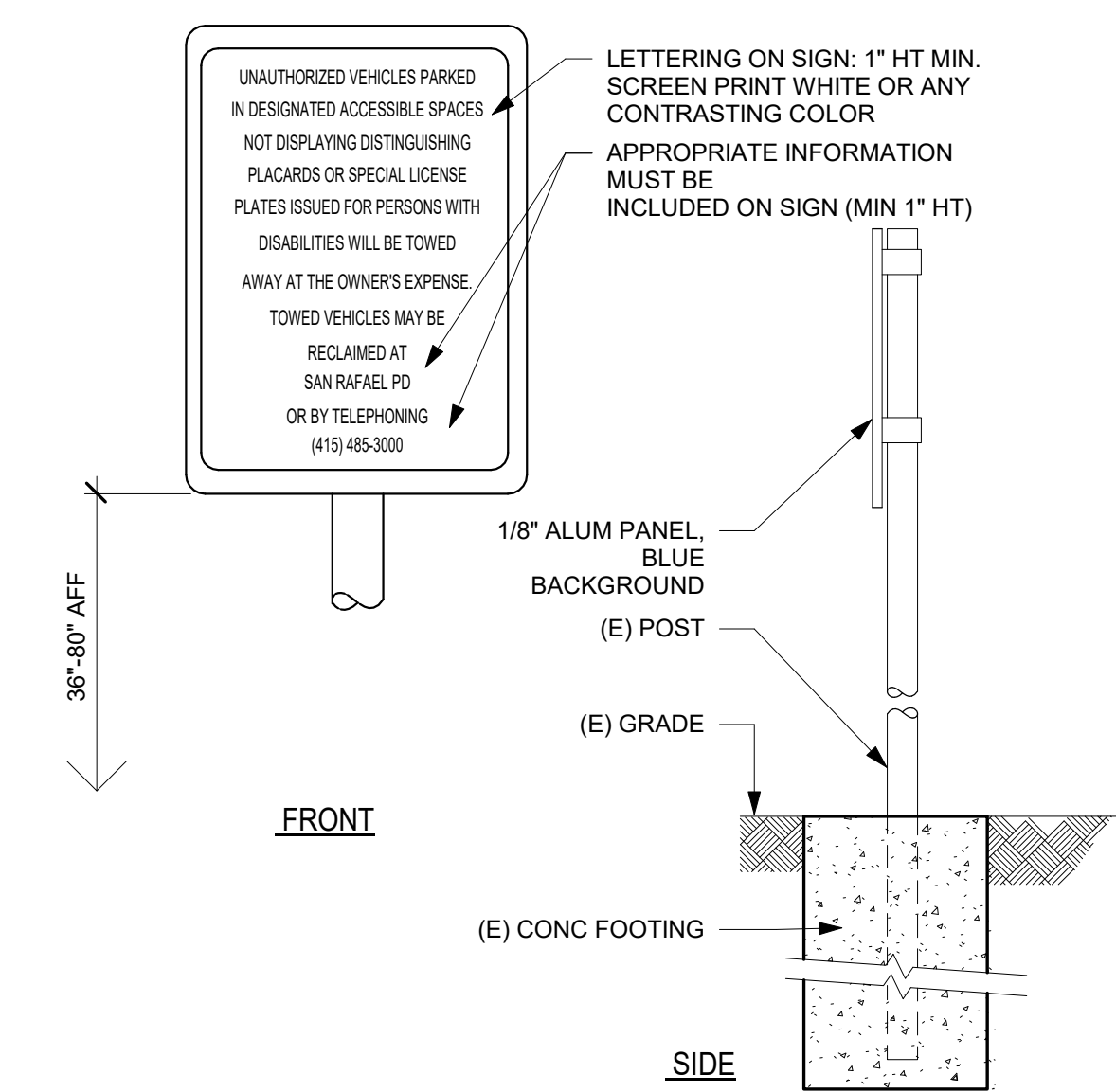
SHEET TITLE:
SITE AND ACCESSIBLE PATH OF TRAVEL

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	MT
DESIGNER:	GYN
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

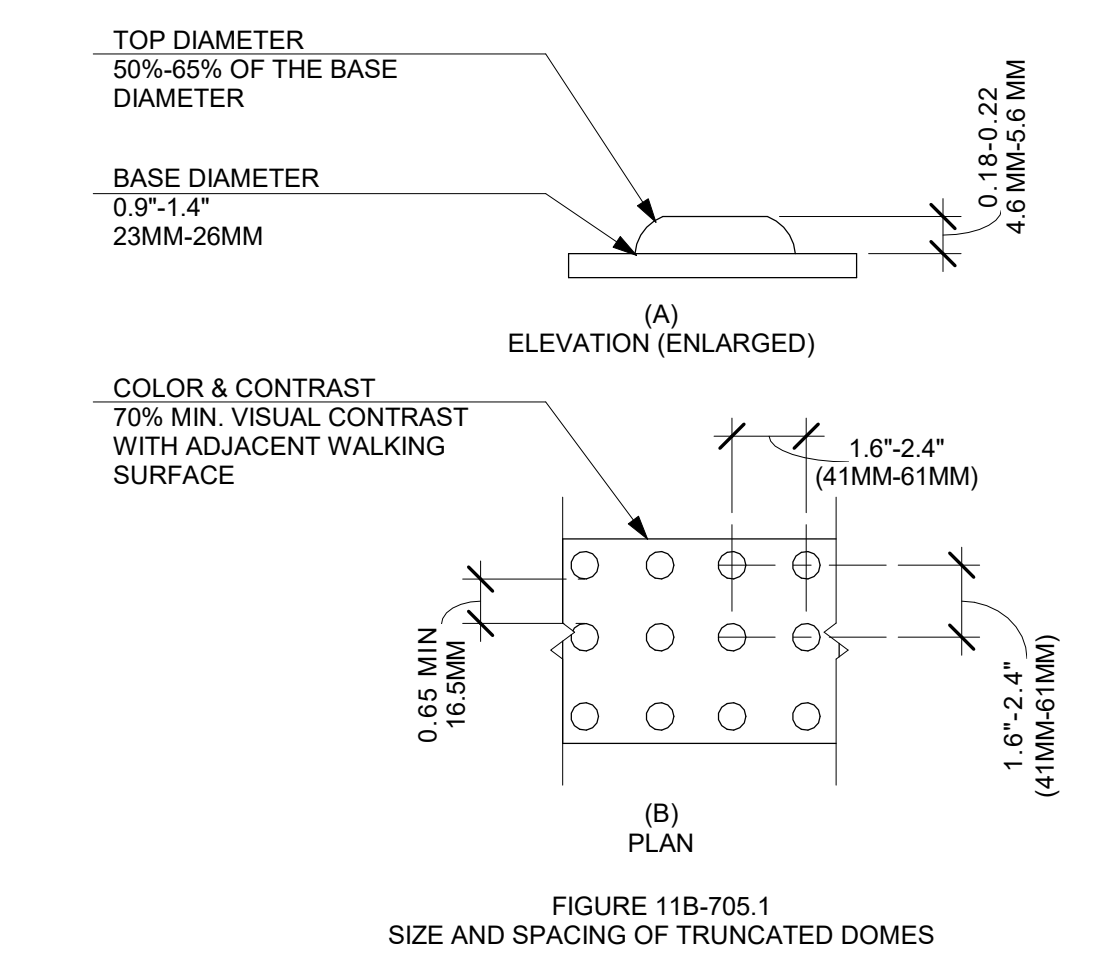
A101



1 POLE MOUNTED ACCESSIBLE PARKING SIGNAGE
3/4" = 1'-0"



2 (N) TOW AWAY SIGN
1" = 1'-0"



3 DETECTABLE WARNINGS DETAILS (2019 CBC 11B-705.1)
6" = 1'-0"

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK 01.19.21
ISSUED FOR PERMIT
ISSUED FOR BID
ISSUED FOR CONSTRUCTION



CONSULTANT:



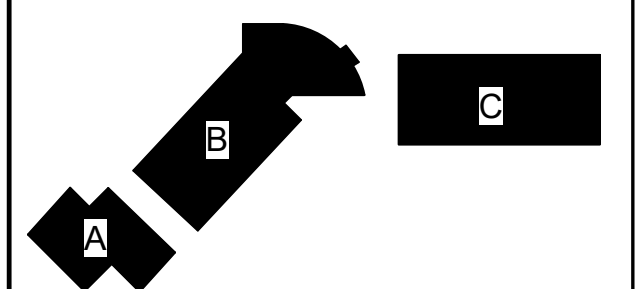
117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94801
(510) 236-7435
www.itres.com

PROJECT:

HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL

125 BAHIA WAY
SAN RAFAEL, CA. 94901

KEY PLAN

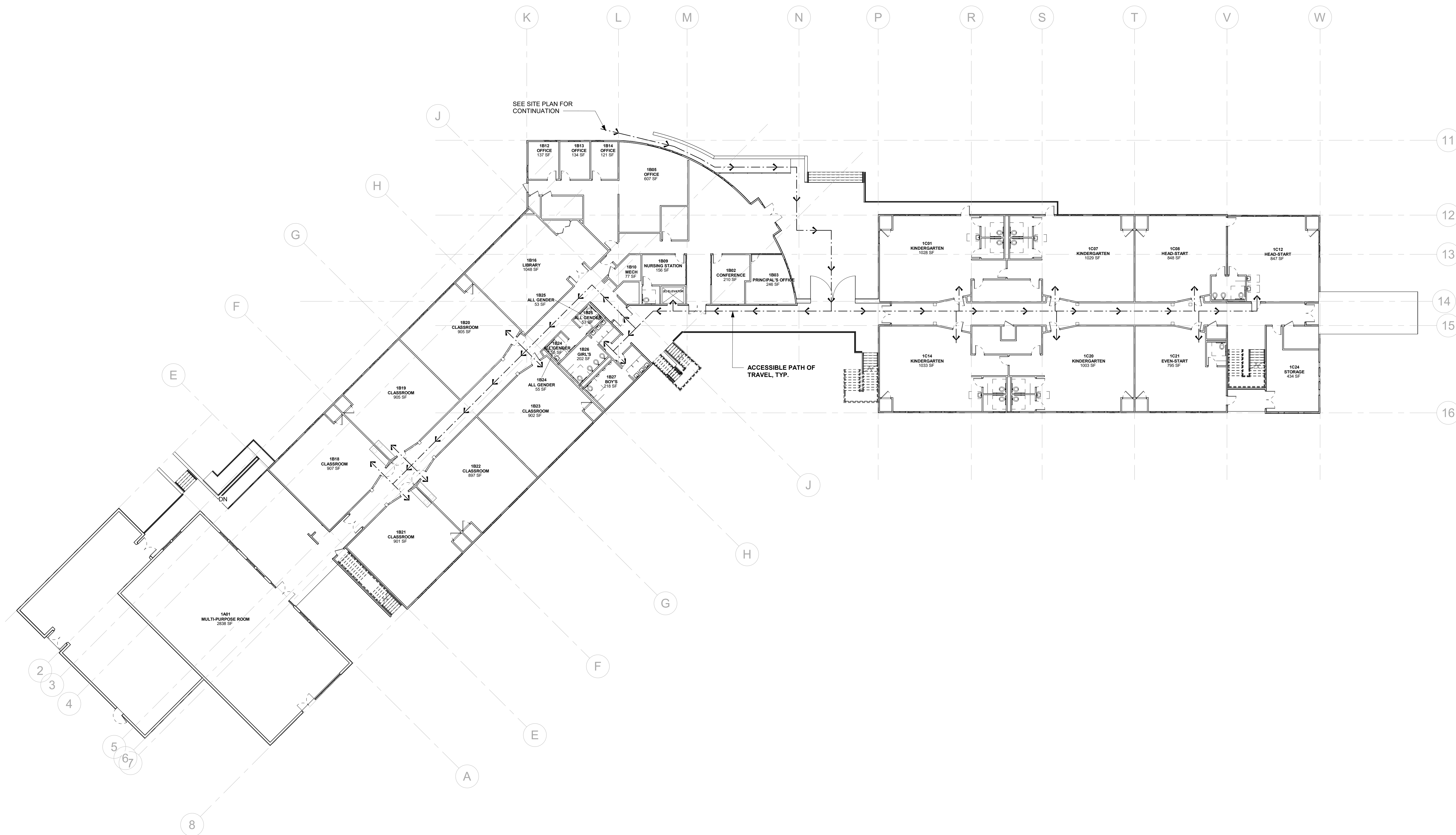


SHEET TITLE:

SITE DETAILS

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

A102



REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



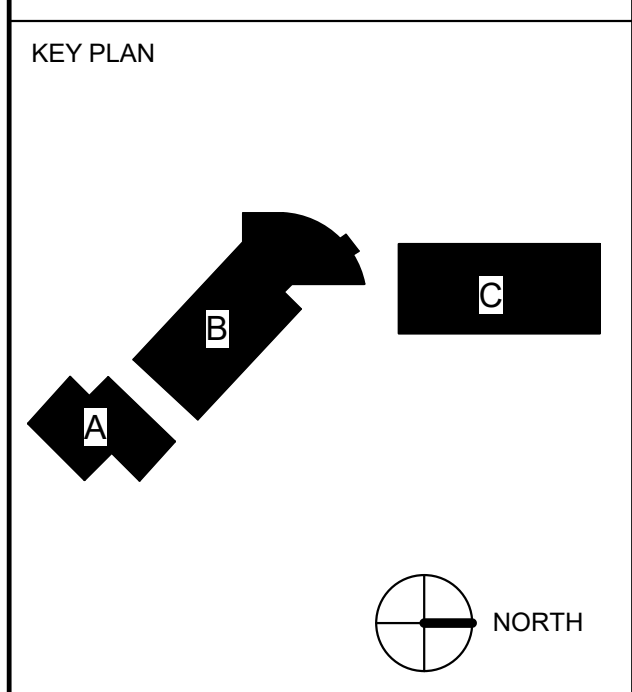
CONSULTANT:



117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 www.itres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94901

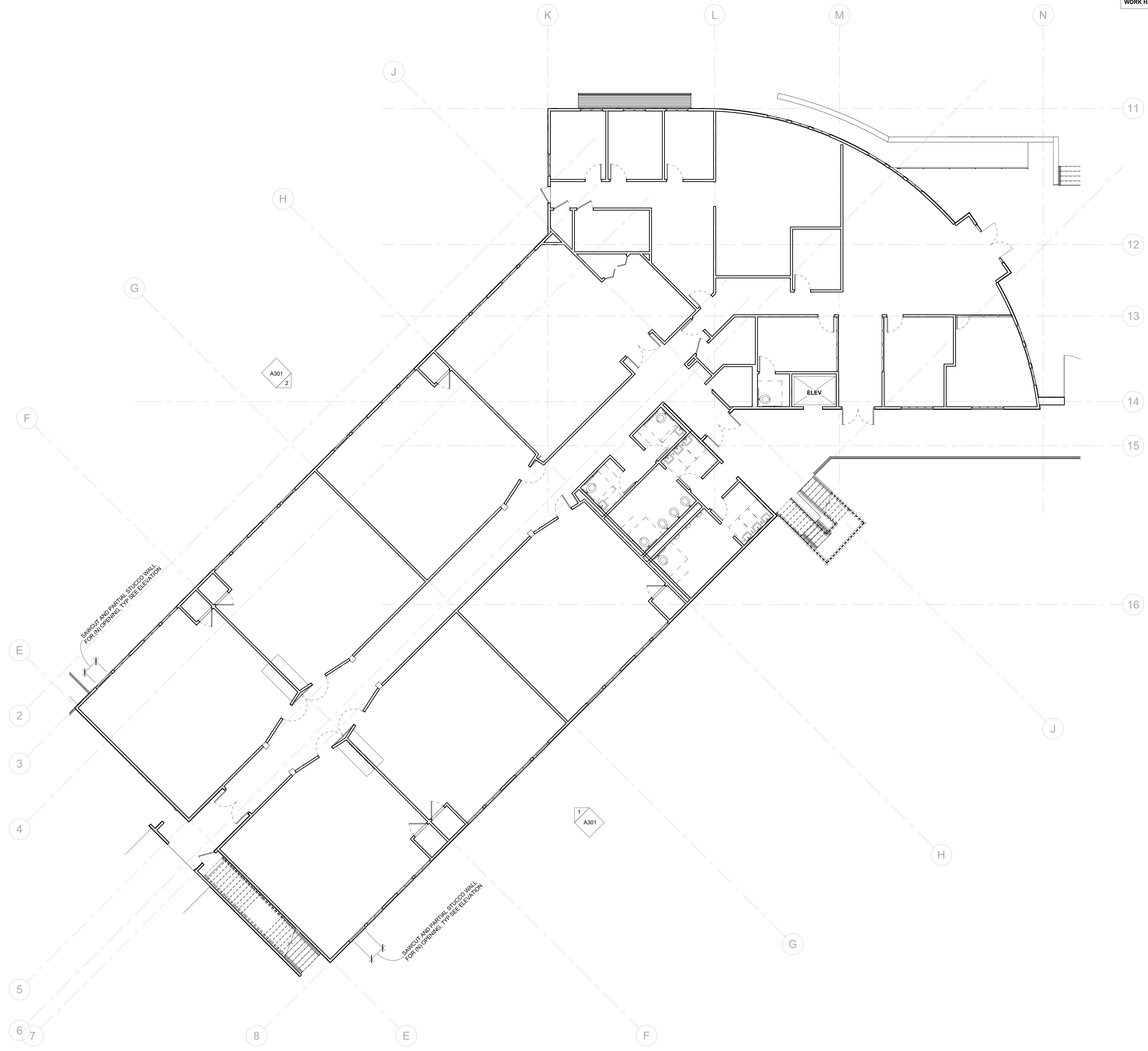


SHEET TITLE:
**LEVEL 1 -
 OVERALL PATH
 OF TRAVEL
 FLOOR PLAN**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

A201

GENERAL DEMOLITION NOTE: NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA



REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



CONSULTANT:



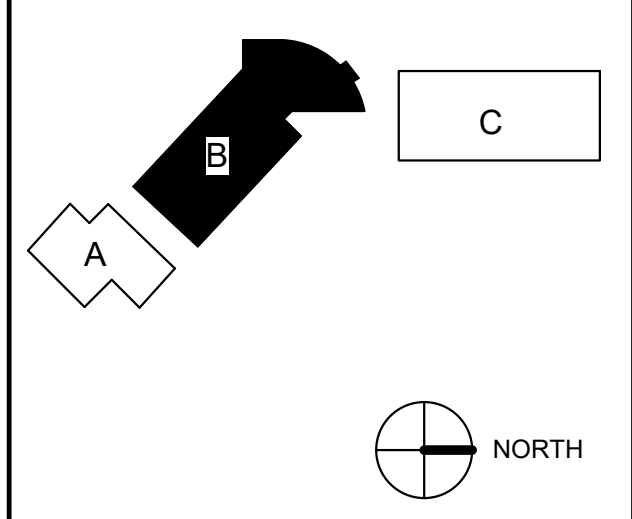
117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 www.itres.com

PROJECT:

**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94901

KEY PLAN



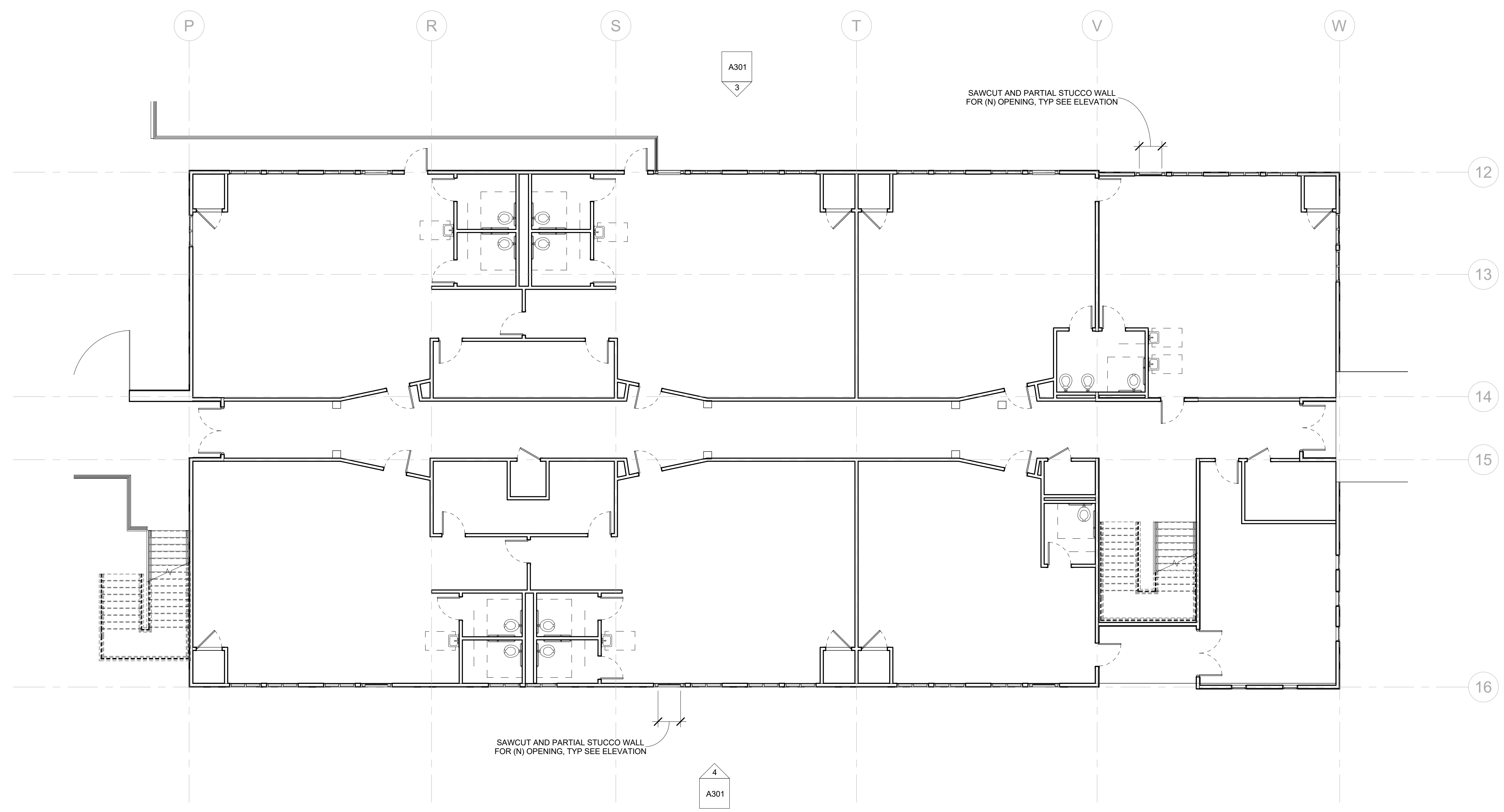
SHEET TITLE:

**LEVEL 1 -
 BUILDING B**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	MT
DESIGNER:	GYN
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

A202

GENERAL DEMOLITION NOTE: NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA



REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



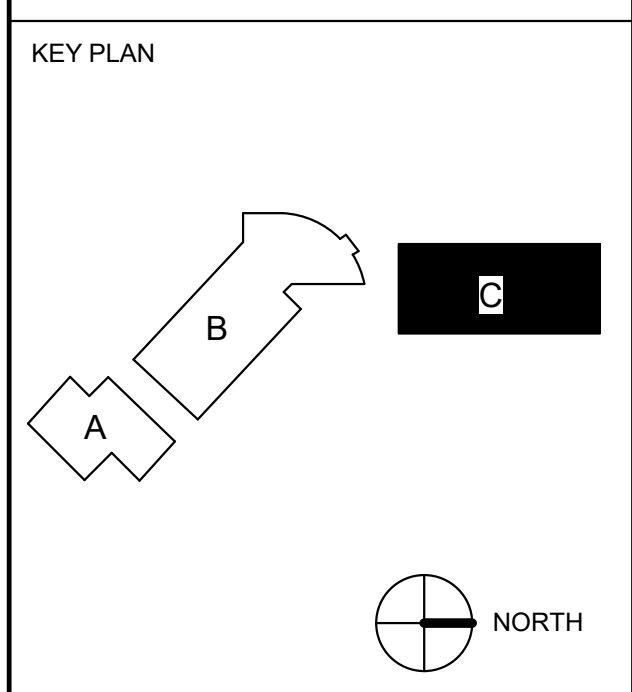
CONSULTANT:



117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 www.inres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

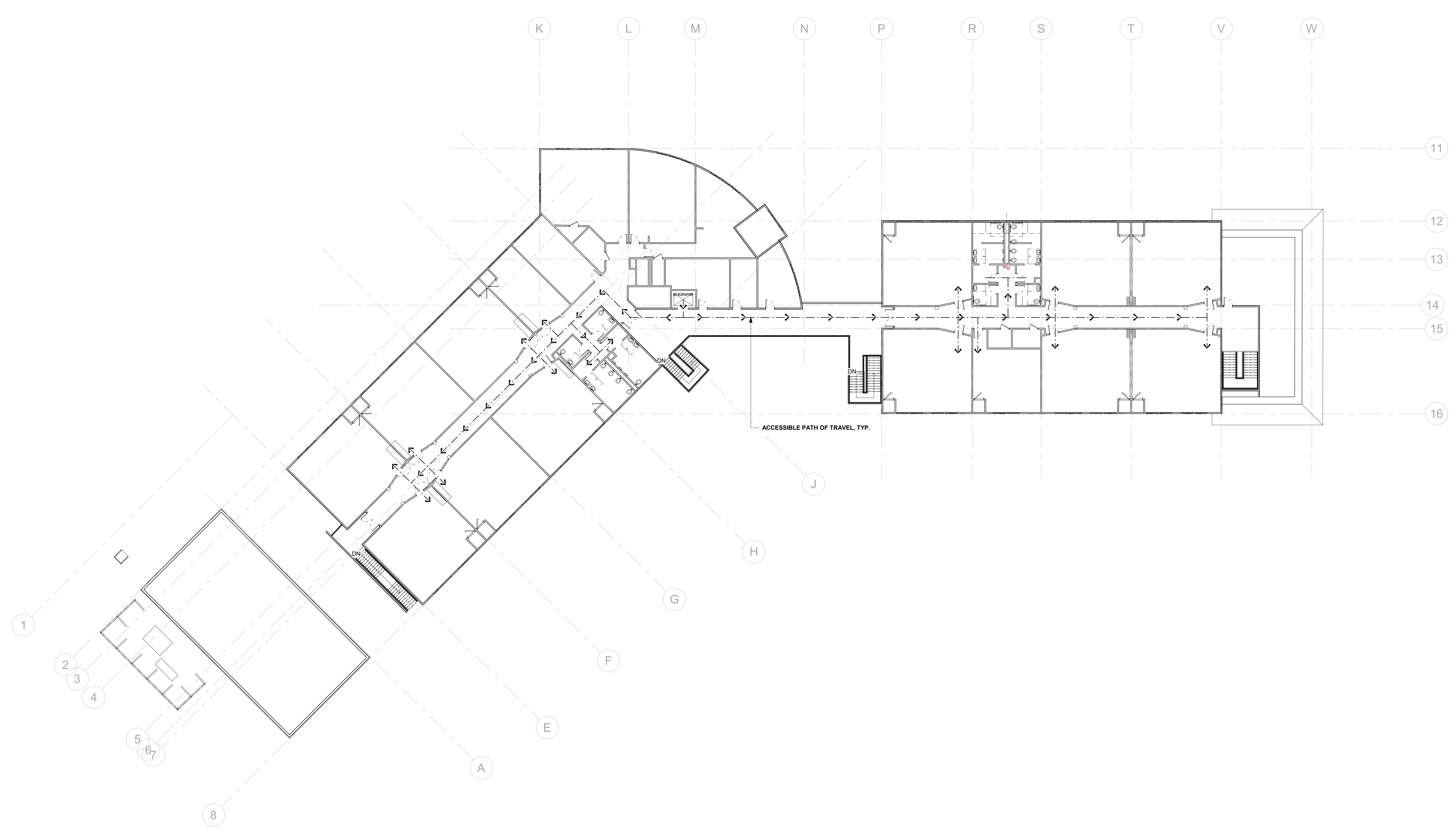
125 BAHIA WAY
 SAN RAFAEL, CA. 94901



SHEET TITLE:
**LEVEL 1 -
 BUILDING C**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

A203



REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION

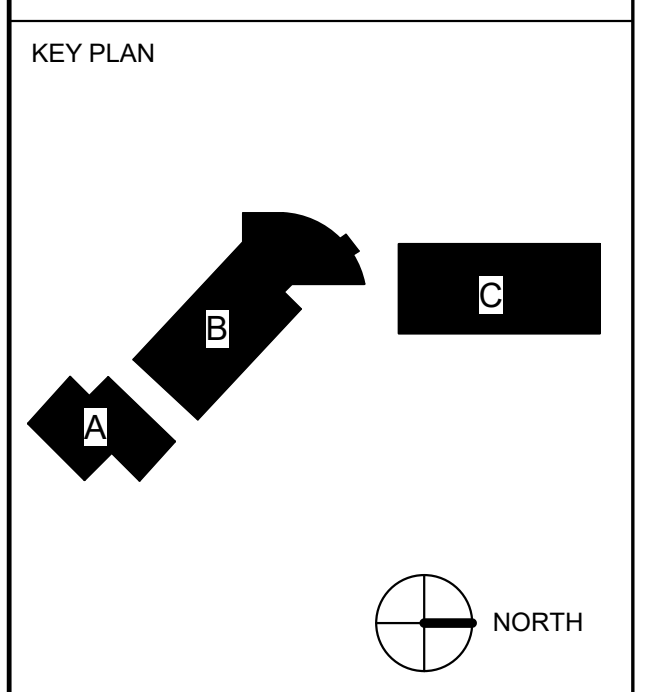


CONSULTANT:

117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 www.itres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94901

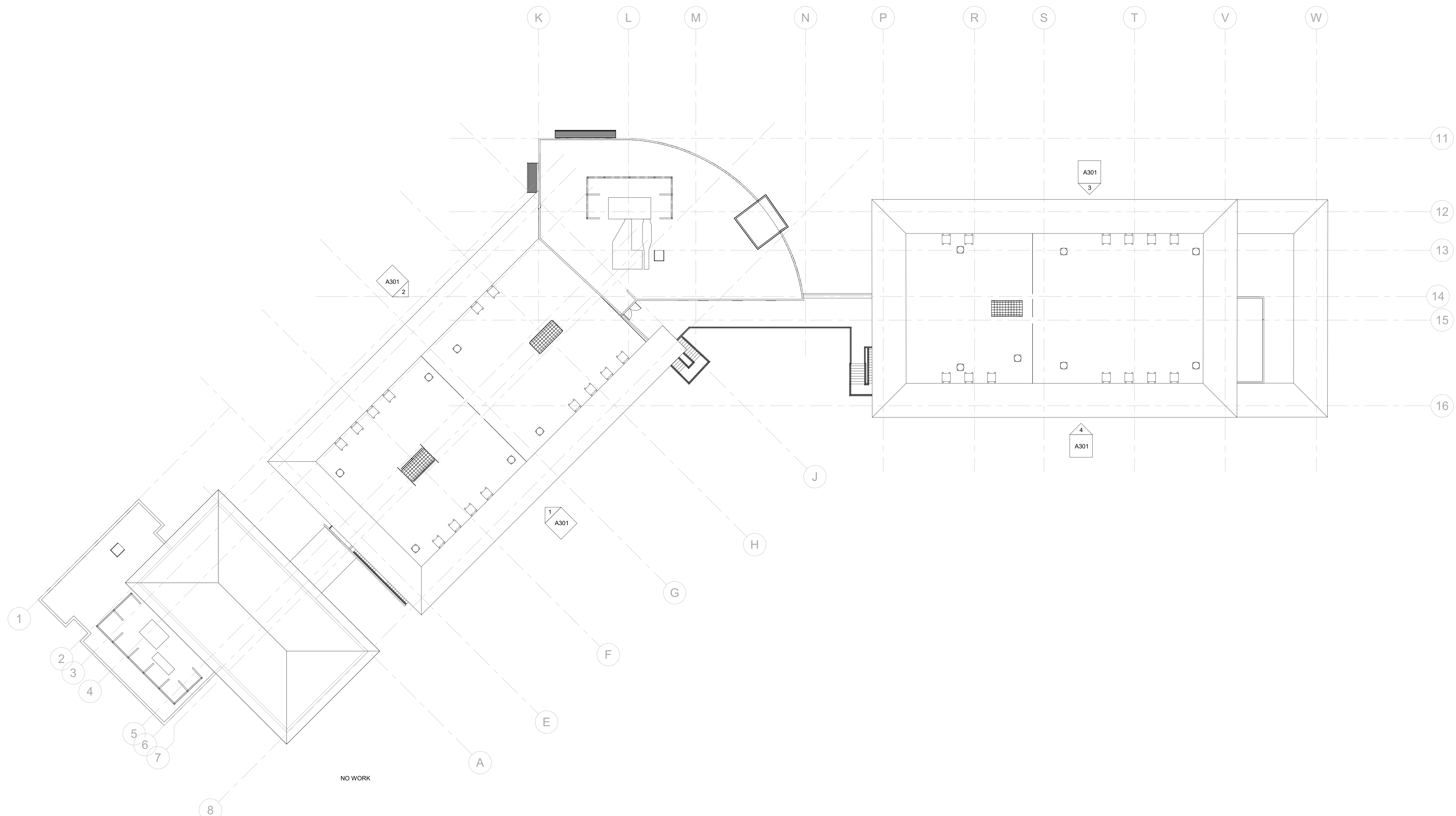


SHEET TITLE:
**LEVEL 2 -
 OVERALL PATH
 OF TRAVEL
 FLOOR PLAN**

PROJ. NO. 2020-036-01
 PREPARATION AND REVIEW
 DRAWN BY: MT
 DESIGNER: GYN
 PROJ. MGR: AMB
 PEER REVIEW: Checker
 SHEET NUMBER:

A204

1 LEVEL 2 OVERALL PATH OF TRAVEL FLOOR PLAN
 1/16" = 1'-0"



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

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION

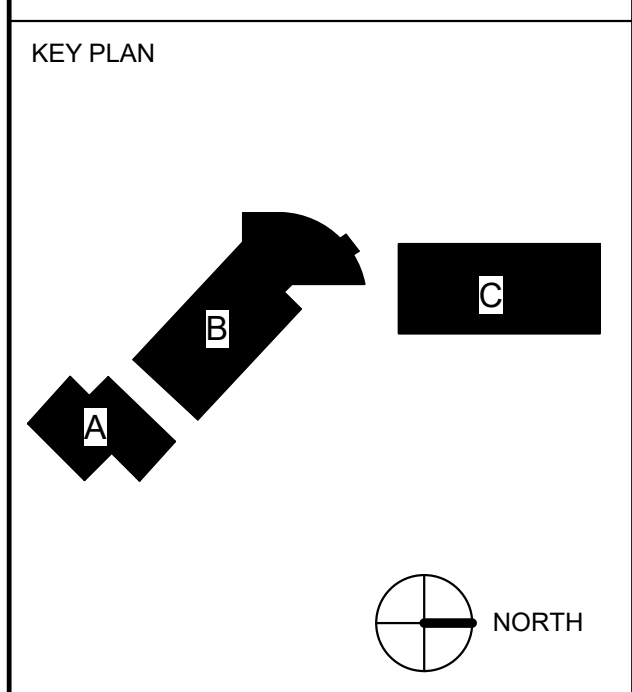


CONSULTANT:



PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

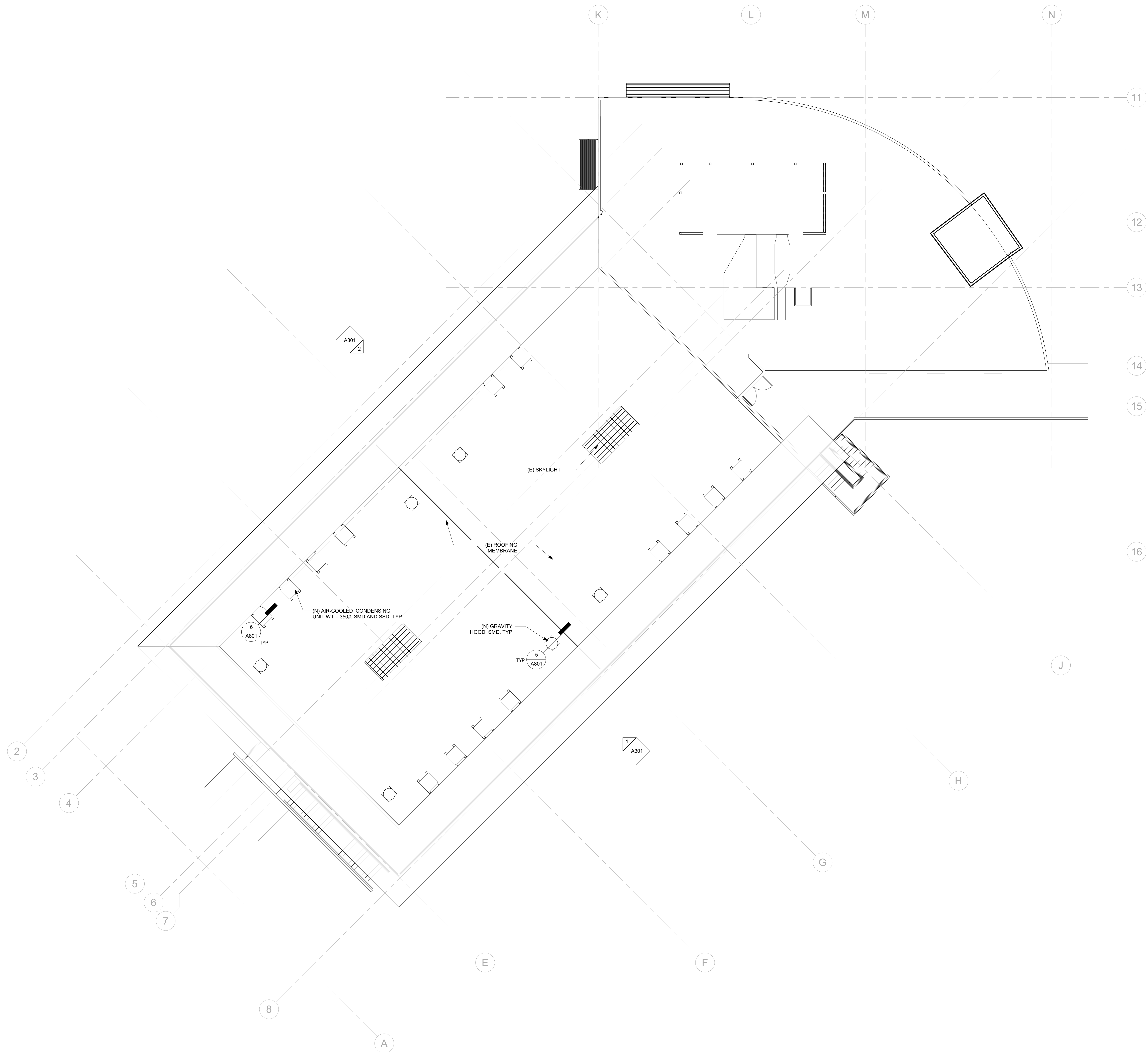
125 BAHIA WAY
 SAN RAFAEL, CA. 94901



SHEET TITLE:
**OVERALL ROOF
 PLAN**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	MT
DESIGNER:	GYN
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

A205



1 ROOF BUILDING B
1/8" = 1'-0"

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



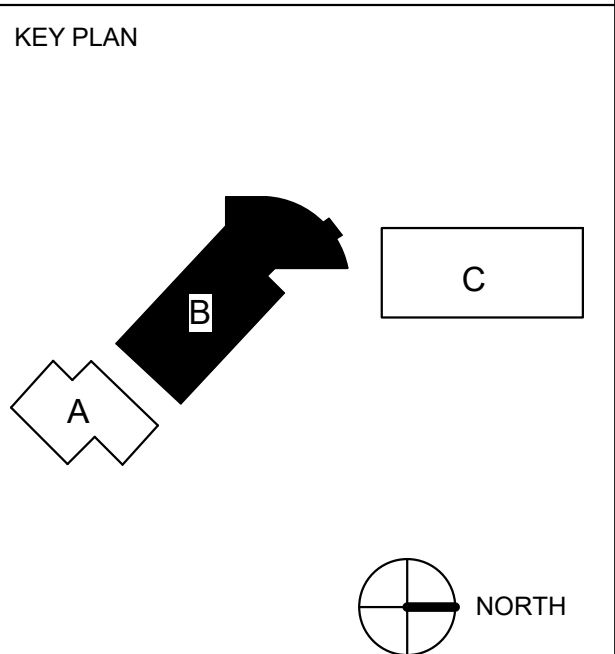
CONSULTANT:



117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 www.inres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94901



SHEET TITLE:
**ROOF PLAN -
 BUILDING B**

PROJ. NO. 2020-036-01
 PREPARATION AND REVIEW
 DRAWN BY: MT
 DESIGNER: GYN
 PROJ. MGR: AMB
 PEER REVIEW: Checker
 SHEET NUMBER:

A208

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK 01.19.21
ISSUED FOR PERMIT
ISSUED FOR BID
ISSUED FOR CONSTRUCTION



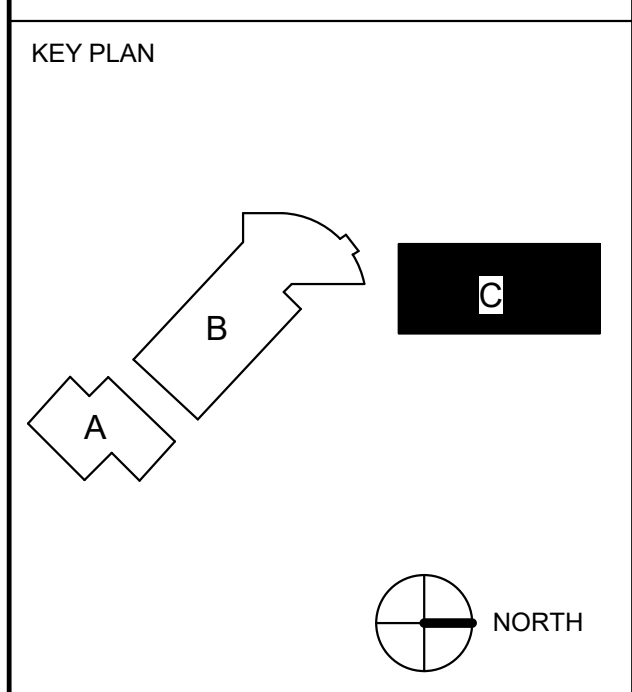
CONSULTANT:



117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94801
(510) 236-7435
www.itres.com

PROJECT:
**HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL**

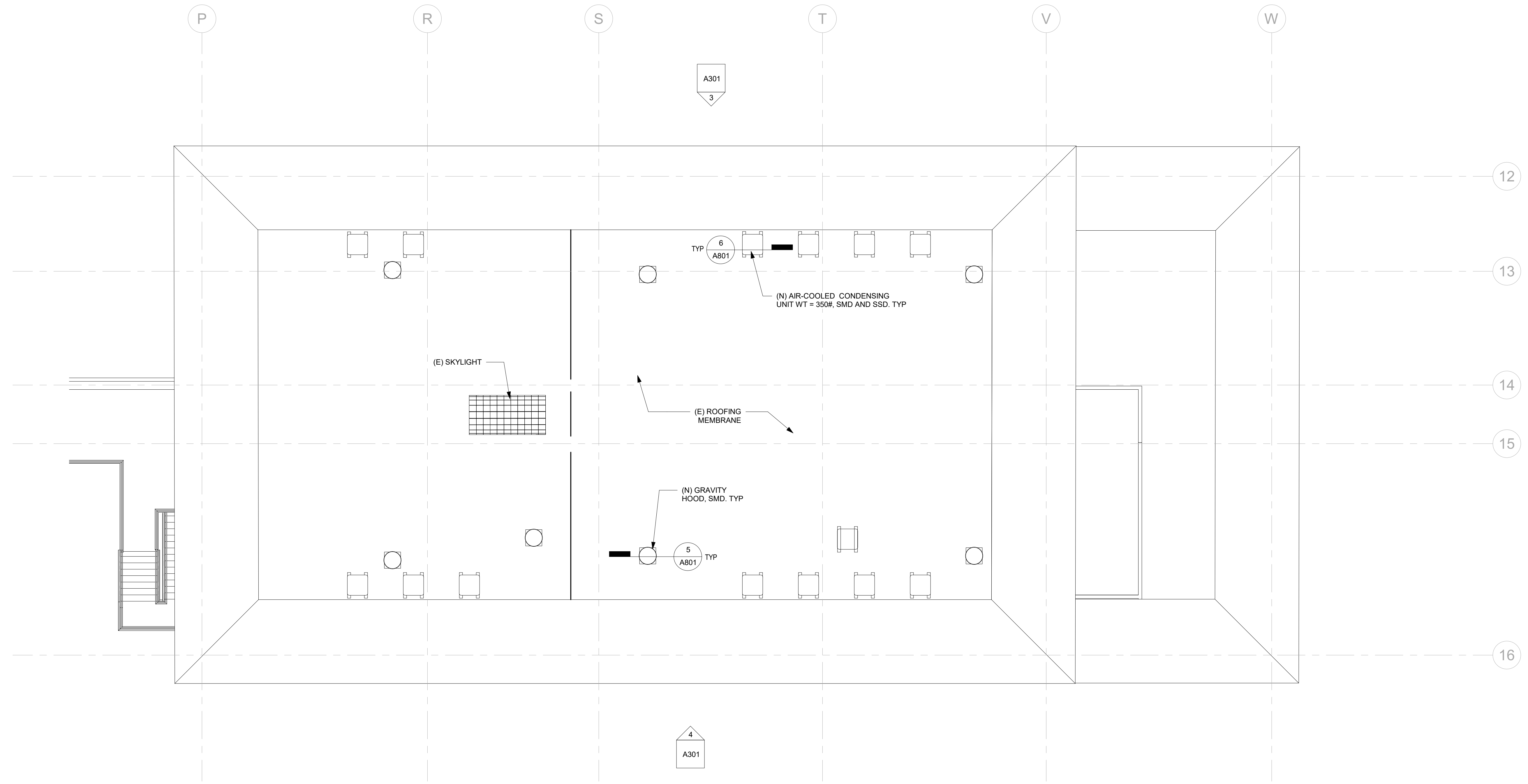
125 BAHIA WAY
SAN RAFAEL, CA. 94901

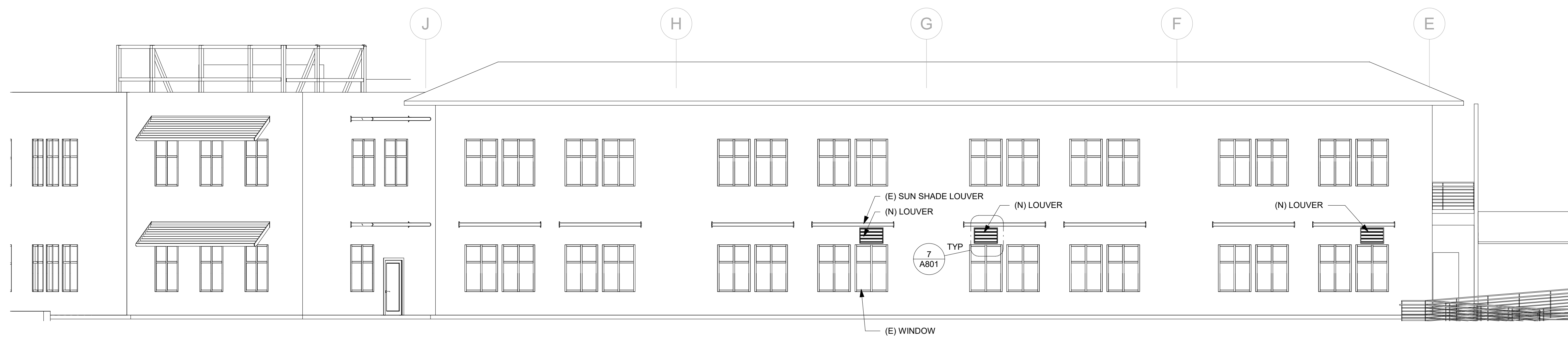


SHEET TITLE:
**ROOF PLAN -
BUILDING C**

PROJ. NO. 2020-036-01
PREPARATION AND REVIEW
DRAWN BY: MT
DESIGNER: GYN
PROJ. MGR: AMB
PEER REVIEW: Checker
SHEET NUMBER:

A209





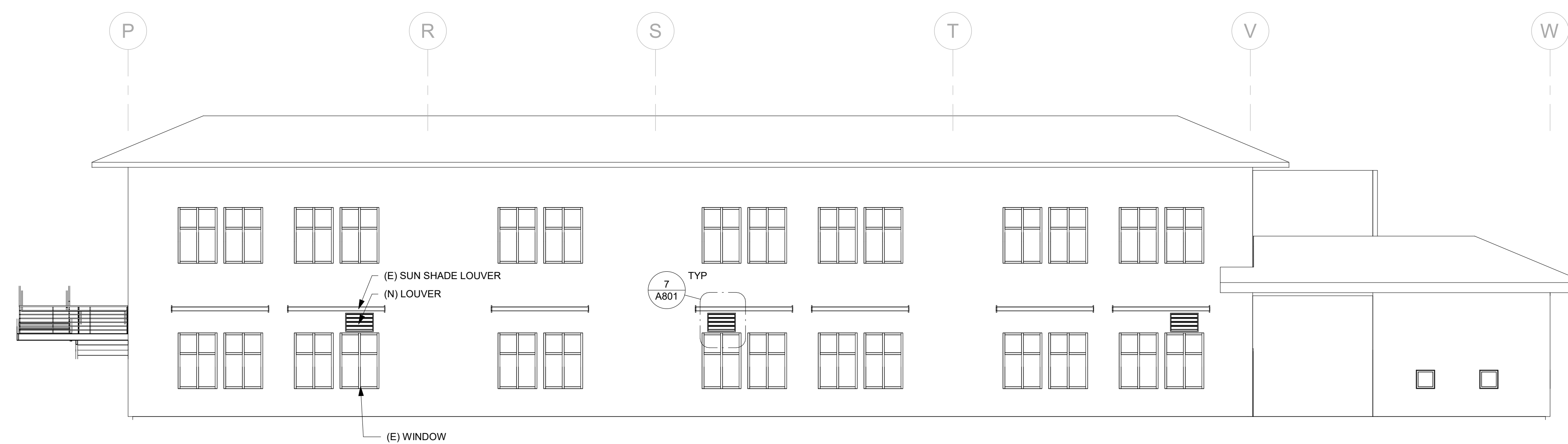
2 WEST ELEVATION - BUILDING B
1/8" = 1'-0"



1 EAST ELEVATION - BUILDING B
1/8" = 1'-0"



3 WEST ELEVATION - BUILDING C
1/8" = 1'-0"



4 EAST ELEVATION - BUILDING C
1/8" = 1'-0"

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



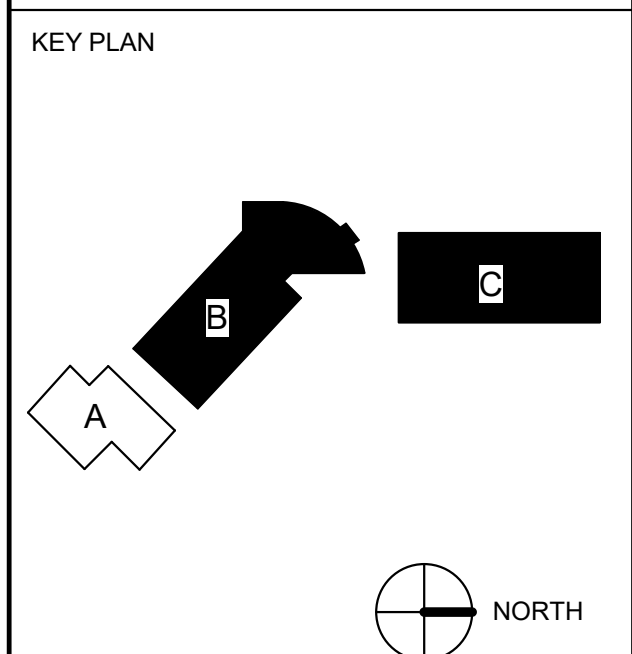
CONSULTANT:



117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 www.inres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

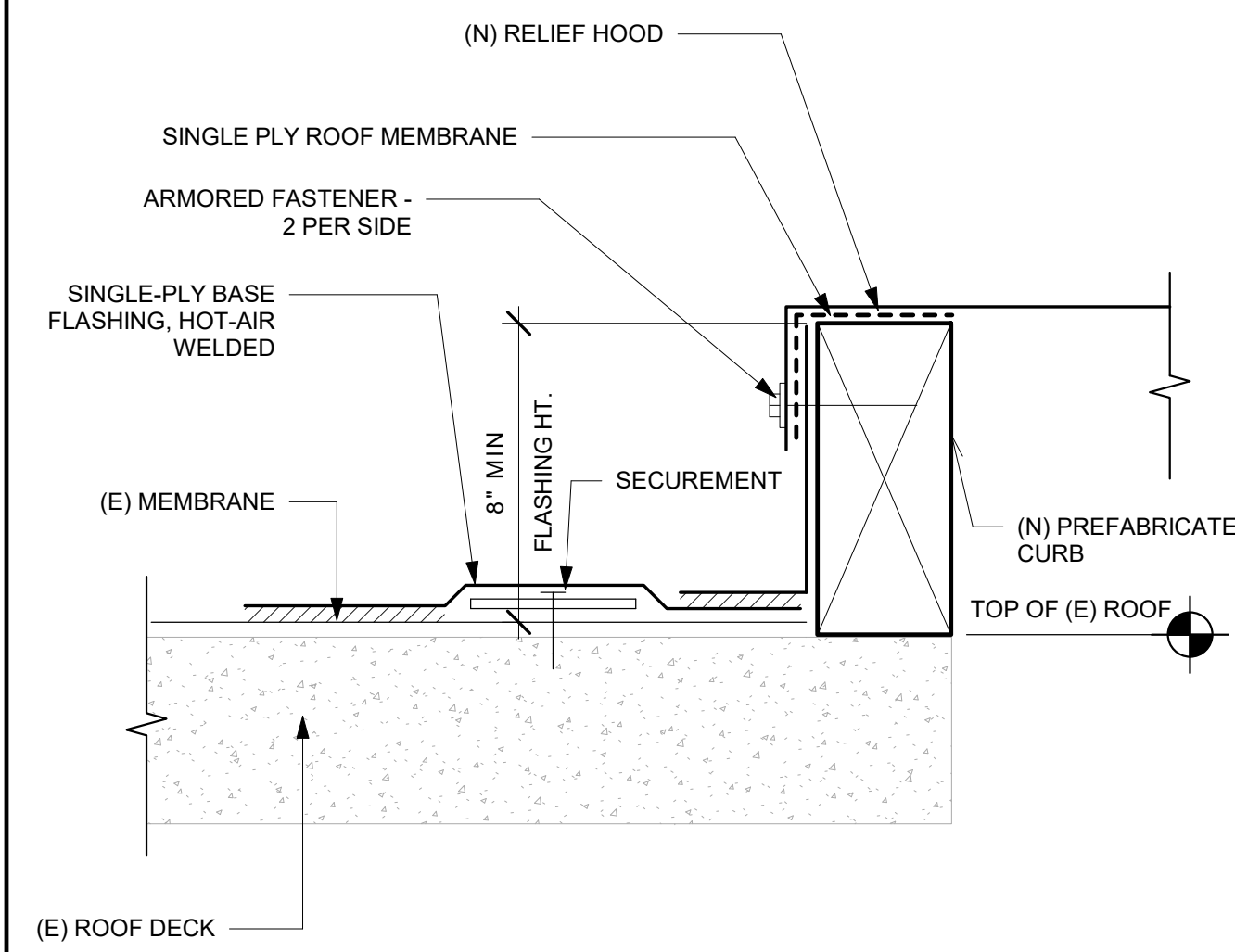
125 BAHIA WAY
 SAN RAFAEL, CA. 94901



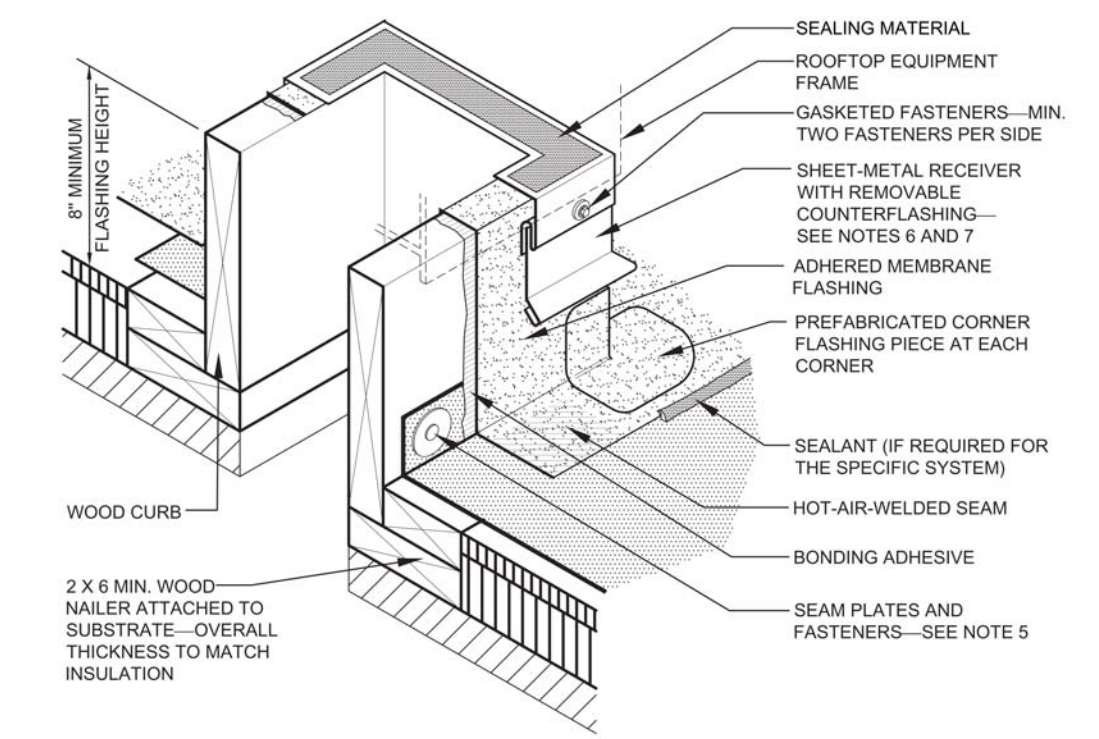
SHEET TITLE:
**EXTERIOR
 ELEVATION -
 BUILDING B & C**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	MT
DESIGNER:	GYN
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

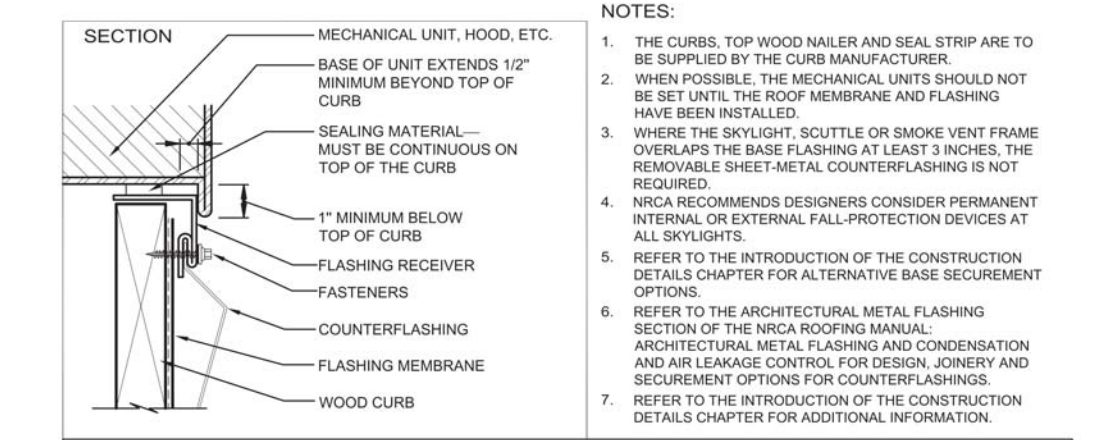
A301



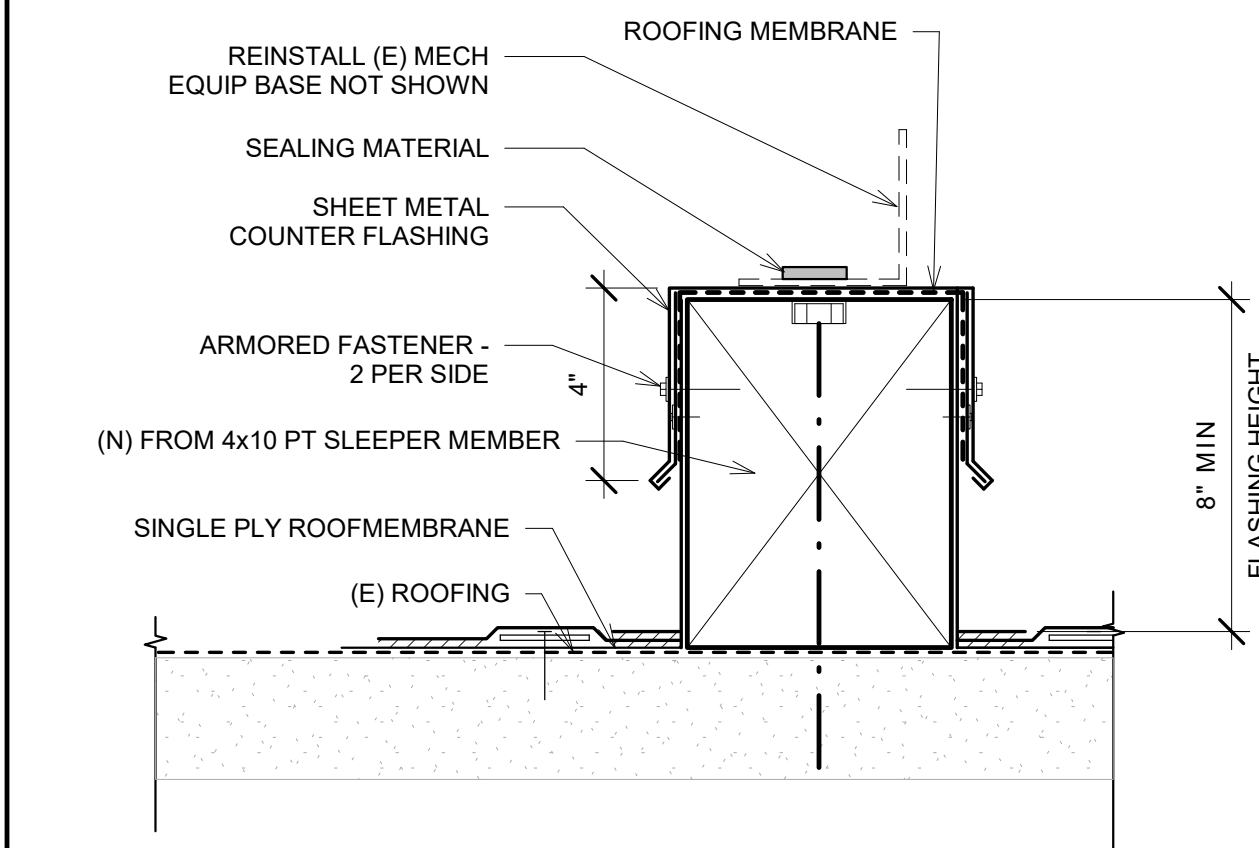
5 (N) MECHANICAL CURB
6" = 1'-0"



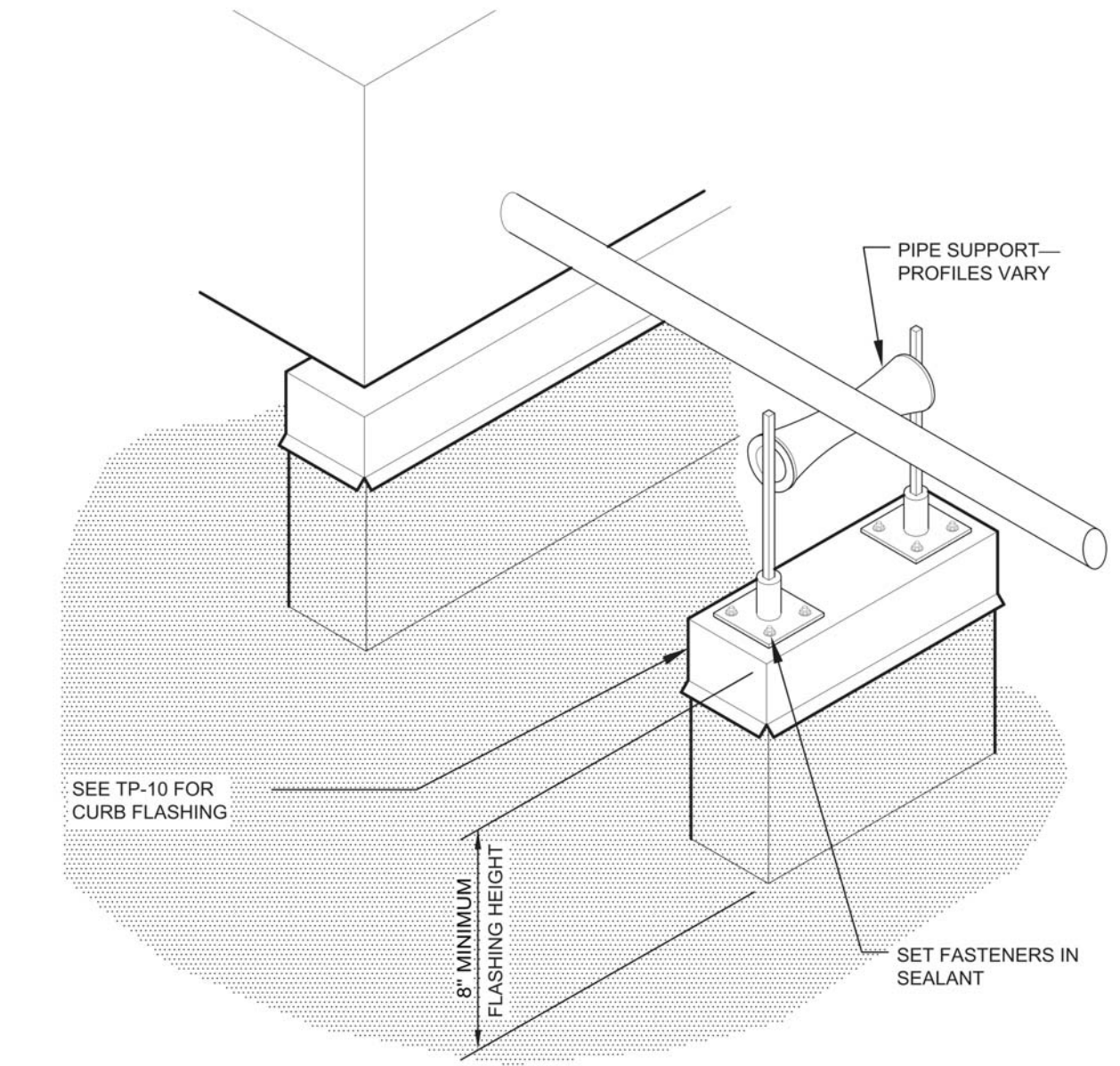
1 TP-14 BASE FLASHING AT WOOD CURB
ISOMETRIC



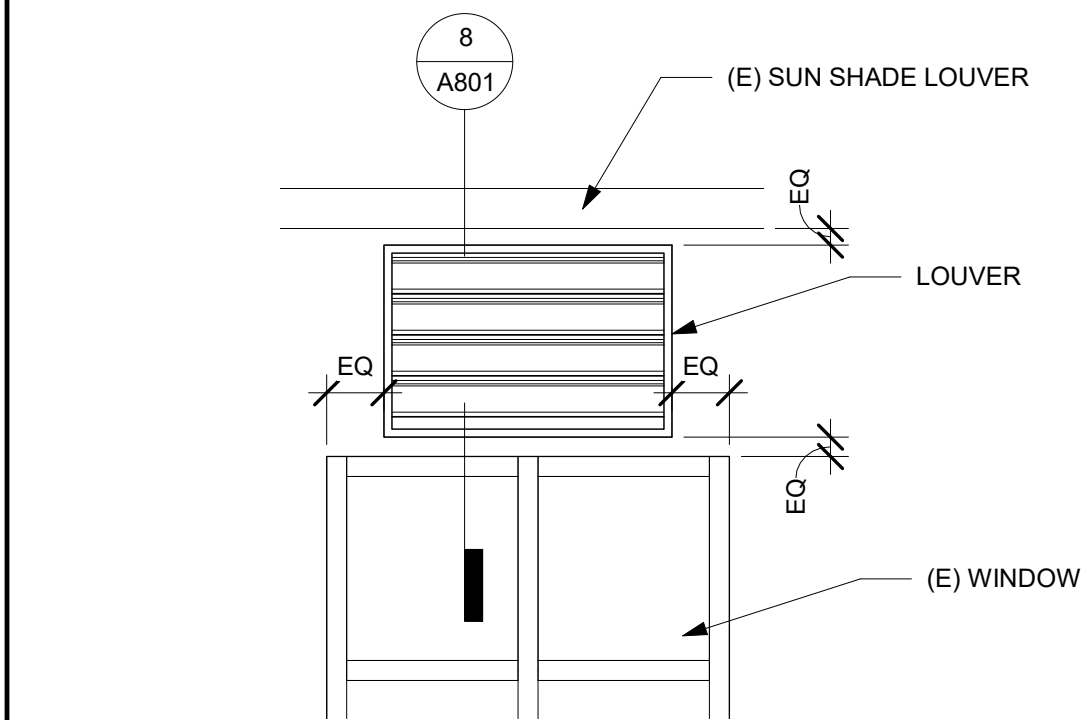
- NOTES:
1. THE CURB, TOP WOOD MAUER AND SEAL STRIP ARE TO BE SHIPPED BY THE CURB MANUFACTURER.
 2. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET INTO THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.
 3. WHERE THE WOOD CURB, SCUTTER OR SMOKE VENT FRAME IS NOT AVAILABLE, THE WOOD CURB AT LEAST SHOULD BE REMOVABLE SHEET METAL COUNTER FLASHING IS NOT REQUIRED.
 4. UNLESS RECOMMENDED OTHERWISE, CONSIDER PERMANENT INTERNAL OR EXTERNAL FALL PROTECTION DEVICES AT ALL TIMES.
 5. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ALTERNATIVE BASE SECUREMENT OPTIONS.
 6. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE MECA SPECIFICATION FOR ARCHITECTURAL METAL FLASHING AND COORDINATION AND INSTALLATION NOTES FOR DESIGN, POWER AND SECUREMENT OPTIONS FOR COUNTER FLASHING.
 7. REFER TO THE INTRODUCTION OF THE CONSTRUCTION DETAILS CHAPTER FOR ADDITIONAL INFORMATION.



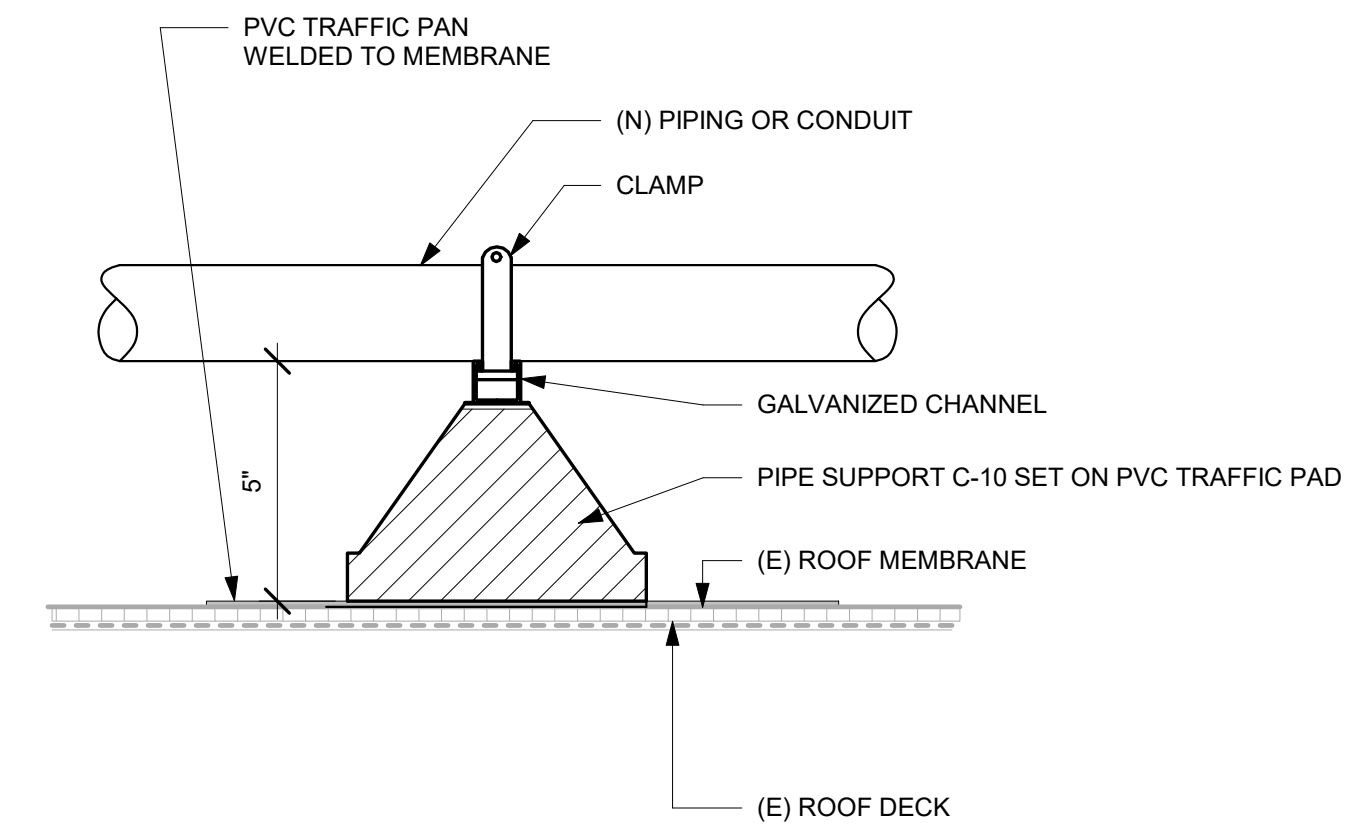
6 (N) MECHANICAL SLEEPER
3" = 1'-0"



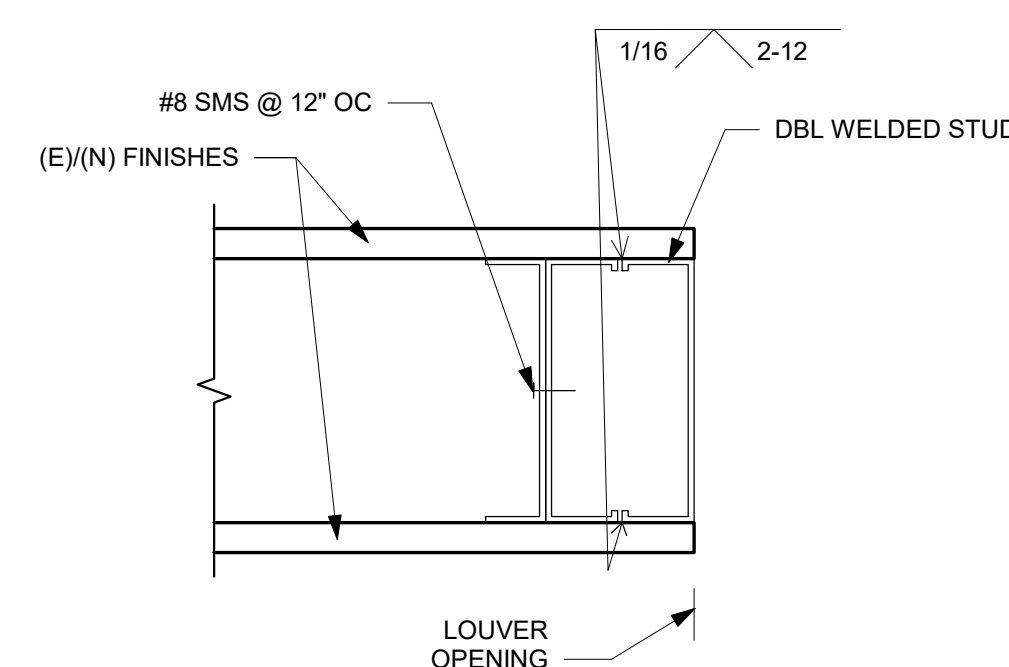
2 TP-23 PIPE SUPPORT CURB
ISOMETRIC



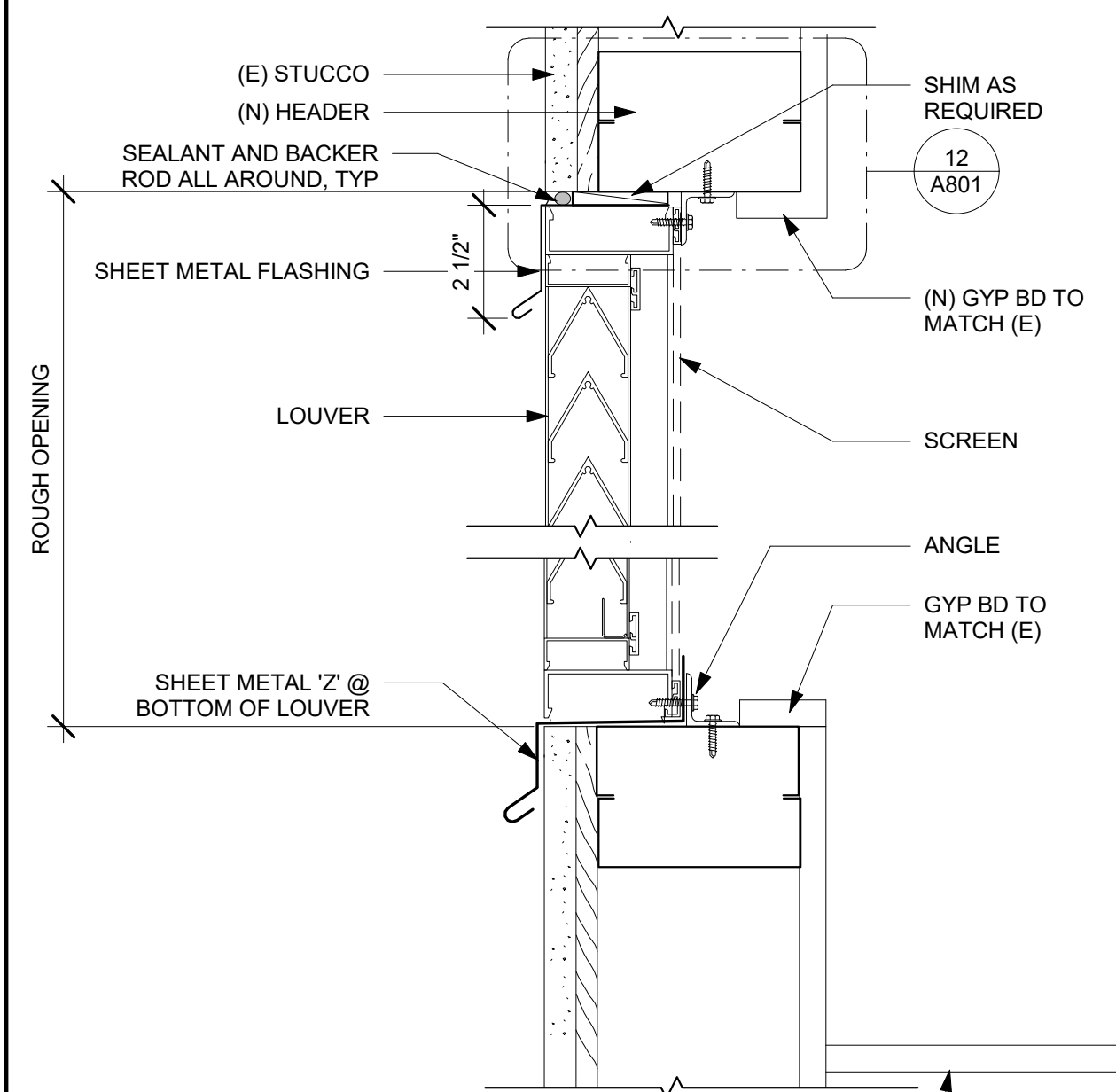
7 PARTIAL ENLARGED LOUVER ELEVATION
1/2" = 1'-0"



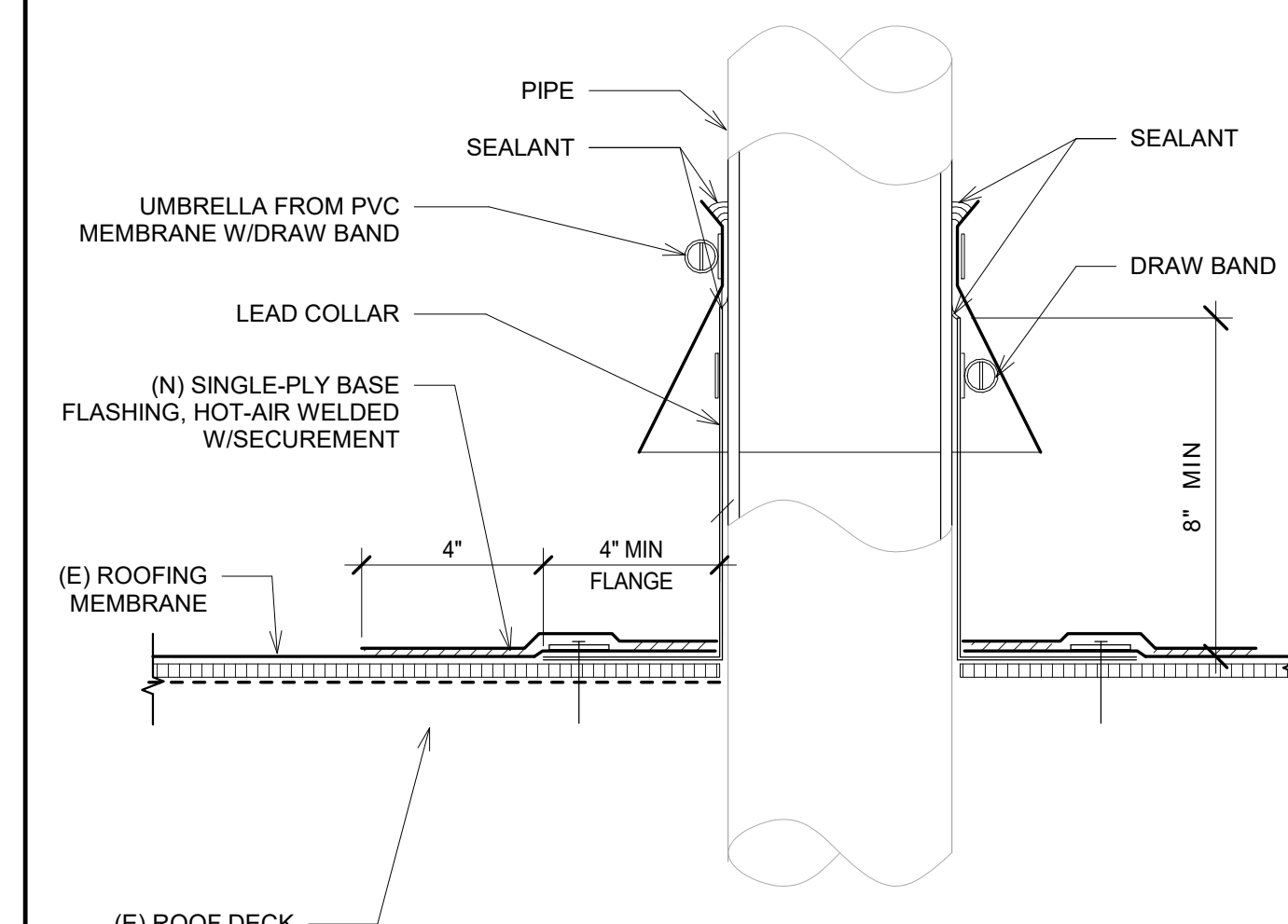
3 (E)/(N) PIPE SUPPORT
3" = 1'-0"



12 LOUVER HEADER (JAMB SIM)
NTS



8 LOUVER ABOVE (E) WINDOW
3" = 1'-0"



4 (N) PIPE PENETRATION W/SHEET METAL COLLAR
3" = 1'-0"

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK 01.19.21
ISSUED FOR PERMIT
ISSUED FOR BID
ISSUED FOR CONSTRUCTION



CONSULTANT:



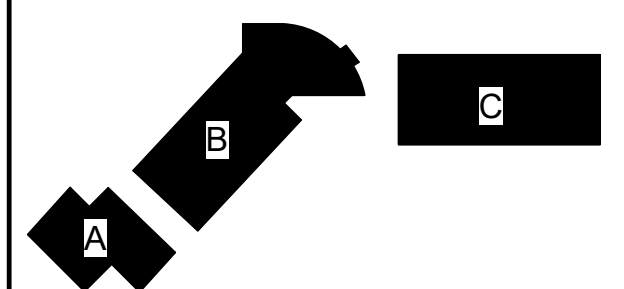
117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94801
(510) 236-7435
www.inres.com

PROJECT:

HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL

125 BAHIA WAY
SAN RAFAEL, CA. 94901

KEY PLAN



SHEET TITLE:
**EXTERIOR
DETAILS**

PROJ. NO. 2020-036-01
PREPARATION AND REVIEW
DRAWN BY: MT
DESIGNER: GYN
PROJ. MGR: AMB
PEER REVIEW: Checker
SHEET NUMBER:

A801

NEW BUILDING GENERAL NOTES

CONFORM TO THE FOLLOWING, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED. ITEMS WITH CHECK BOXES APPLY IF CHECKED.

GENERAL

00701 TYPICAL CONDITIONS:
TYPICAL DETAILS APPLY TO ALL CONSTRUCTION EXCEPT WHERE SHOWN DIFFERENTLY ELSEWHERE.

00702 SPECIFICATIONS:
THE SPECIFICATIONS SHALL GOVERN WHERE INFORMATION IS NOT GIVEN IN THESE GENERAL STRUCTURAL NOTES OR ON THE DRAWINGS. WHERE REFERENCE IS MADE TO STANDARD SPECIFICATIONS, THE LATEST ADOPTED REVISIONS SHALL BE USED.

00703 SIMILARITY:
IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

00705 EXISTING CONDITIONS:
CONTRACTOR SHALL INSPECT ALL EXISTING CONDITIONS WHICH AFFECT THE WORK SHOWN AND SHALL NOTIFY ENGINEER OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH OR DIFFER FROM THE NEW WORK SHOWN. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THESE CONFLICTS AND/OR DIFFERENCES ARE RESOLVED.

00706 SUBMITTALS:
ITEMS SUBMITTED FOR REVIEW SHALL HAVE CONTRACTOR'S APPROVAL AND DATE INDICATED ON EACH COPY. SUBMIT TWO COPIES IN ADDITION TO COPIES DESIRED TO BE RETURNED TO CONTRACTOR.

00707 BRACING AND SHORING:
THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE CONDUCT OF THE WORK, INCLUDING ALL CONSTRUCTION METHODS AND PROCEDURES; SITE SAFETY; AND METHODS, DESIGN, AND MATERIALS FOR TEMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES. ENGINEER'S SITE OBSERVATION VISITS SHALL NOT BE INTERPRETED AS A REVIEW OF CONTRACTOR'S SAFETY MEASURES.

01001 CODE:
CALIFORNIA BUILDING CODE, 2019 EDITION
ASCE 7-16 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.

01002 DESIGN LOADS:
DEAD LOADS: ACTUAL IN-PLACE WEIGHTS OF MATERIALS SHOWN ON THE CONSTRUCTION DOCUMENTS.

LIVE LOADS (REDUCED PER CBC):
ROOF LIVE LOAD: 20 PSF

WIND LOADS:
q_s = 17.2 PSF
WIND SPEED 91 MPH
EXPOSURE C
K_e = 0.956
K_d = 1.00
K_z = 0.85
K_z = 0.997

SEISMIC DESIGN CATEGORY D
LATITUDE = 38.049
LONGITUDE = -122.154
S_s = 1.200 Q_s = 2.0
S₁ = 0.600

SITE COEFFICIENTS
SITE CLASS D - DEFAULT
F_p = 1.8 W_s
a_s = 2.5
R_e = 2.0
I_p = 1.0
S_{DS} = 1.200
IMPORTANCE FACTOR
I = 1.00

01040 COORDINATION:
COORDINATE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS. NOTIFY THE STRUCTURAL ENGINEER AND ARCHITECT OF ANY CONFLICTS AND DO NOT PROCEED WITH THE WORK UNTIL CONFLICTS ARE RESOLVED.

01064 SPECIAL INSPECTION:
SPECIAL INSPECTION SHALL BE PROVIDED PER CBC SECTION 1701A FOR THE FOLLOWING, REFERENCE DSA FROM 103, TESTING INSPECTION FORM
A. WELDING OF THREADED STUDS

01065 TESTING:
OWNER'S TESTING AGENCY SHALL PERFORM THE FOLLOWING TESTS AND SUBMIT
A. PERFORM 30° BEND TEST AND TENSION TEST ON SAMPLE 3/8"Ø THREADED STUDS PRIOR TO INSTALLATION.
B. SUBMIT COMPLETE RECORD OF ALL TESTING AND INSPECTION OF WORK.

01066 STRUCTURAL OBSERVATION:
THE STRUCTURAL ENGINEER OF RECORD SHALL PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN CBC SECTION 1704A. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL. THE ENGINEER 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 ENGINEER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

01071 ABBREVIATIONS AND SYMBOLS:

AB	ANCHOR BOLT	HDR	HEADER
ALT	ALTERNATE	HORIZ	HORIZONTAL
ARCH	ARCHITECT(URAL)	HSB	HIGH STRENGTH BOLT
BLDG	BUILDING	INFO	INFORMATION
BLKG	BLOCKING	INT	INTERIOR
BM	BEAM	JT	JOINT
BN	BOUNDARY NAIL	L	ANGLE
BOT	BOTTOM	MAX	MAXIMUM
CBC	CALIFORNIA BUILDING CODE	MB	MACHINE BOLT
CC	CENTER-TO-CENTER	MFR	MANUFACTURER
CJ	CONSTRUCTION JOINT	MIN	MINIMUM
CL	CENTERLINE	(N)	NEW
CLR	CLEAR	N/A	NOT APPLICABLE
CMU	CONCRETE MASONRY UNIT	No.	NUMBER
COL	COLUMN	NS	NEAR SIDE
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECTION	OC	ON CENTER
CONT	CONTINUOUS	OPP	OPPOSITE
CP	COMPLETE PENETRATION	OWSJ	OPEN WEB STEEL JOIST
		PARA	PARALLEL
		PERP	PERPENDICULAR
		PL	PLATE
		PN	PLATE NAIL
		PT	PRESSURE TREAT
		PW	PLYWOOD
		REINF	REINFORCEMENT
		REQD	REQUIRED
		SAD	SEE ARCH. DRAWINGS
		SCHED	SCHEDULE
		SIM	SIMILAR
		SOG	SLAB-ON-GRADE
		SQ	SQUARE
		SLRS	SEISMIC RESISTING LOAD SYSTEM
		SS	STAINLESS STEEL
		STRUCT	STRUCTURAL
		SYM	SYMMETRICAL
		T&B	TOP AND BOTTOM
		T&G	TONGUE AND GROOVE
		TOC	TOP OF CONCRETE
		TOS	TOP OF STEEL
		TOT	TOTAL
		TYP	TYPICAL
		UON	UNLESS OTHERWISE NOTED
		VERT	VERTICAL
		VIF	VERIFY IN FIELD
		W	WITH
		W/O	WITHOUT
		WP	WORKING POINT
		#	SIZE OF REINFORCING BAR
		@	AT (SPACING)

05120 STRUCTURAL STEEL

05121 MATERIALS:
WIDE FLANGE COLUMNS: _____ ASTM A992, F_y = 50 KSI
WIDE FLANGE SECTIONS: _____ ASTM A572 GRADE 50
OTHER STRUCTURAL STEEL: _____ ASTM A572 GRADE 50
GUSSET PLATES AT BRACED FRAMES _____ ASTM A572, F_y = 50 KSI
STEEL TUBING: _____ ASTM A500, GRADE B, F_y = 48 KSI
PIPE: _____ ASTM A53, GRADE B, F_y = 35 KSI
BOLTS: _____ ASTM A307
HIGH STRENGTH BOLTS: _____ ASTM A325/36
ANCHOR BOLTS: _____ F1554 GRADE VARIES

05122 FABRICATION AND ERECTION:
PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS," DECEMBER 2005.

05123 WELDING:
PER AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEEL (ANSI/AWS D1.1)," CERTIFIED WELDERS, CONFORM TO THE CURRENT AWS CODE AND AISC ASD SPECIFICATIONS.

06000 ROUGH CARPENTRY

06101 FRAMING LUMBER:
• MAXIMUM MOISTURE CONTENT IN 2x MEMBERS: _____ 19%
• LUMBER GRADING TO CONFORM TO UBC STANDARD 23-1. FRAMING SHALL BE DF-L NO. 2 OR BETTER, UNLESS OTHERWISE NOTED.
• LUMBER TO BE FREE OF HEART CENTER.

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK 01.19.21
ISSUED FOR PERMIT
ISSUED FOR BID
ISSUED FOR CONSTRUCTION



CONSULTANT:



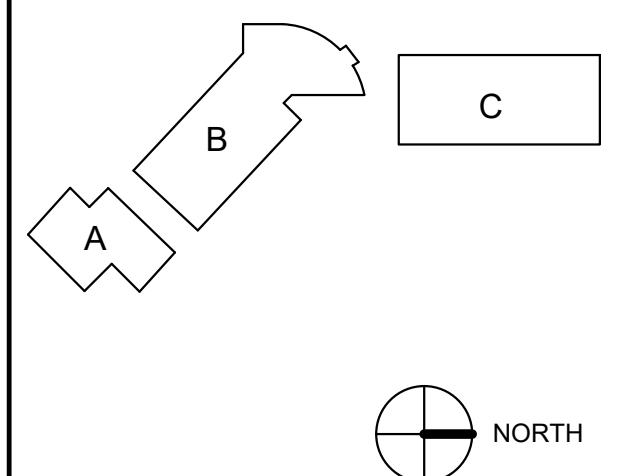
117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94801
(510) 236-7435
www.itres.com

PROJECT:

**HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL**

125 BAHIA WAY
SAN RAFAEL, CA. 94901

KEY PLAN



SHEET TITLE:

**STRUCTURAL
NOTES**

PROJ. NO. 2020-036-01

PREPARATION AND REVIEW

DRAWN BY: Author

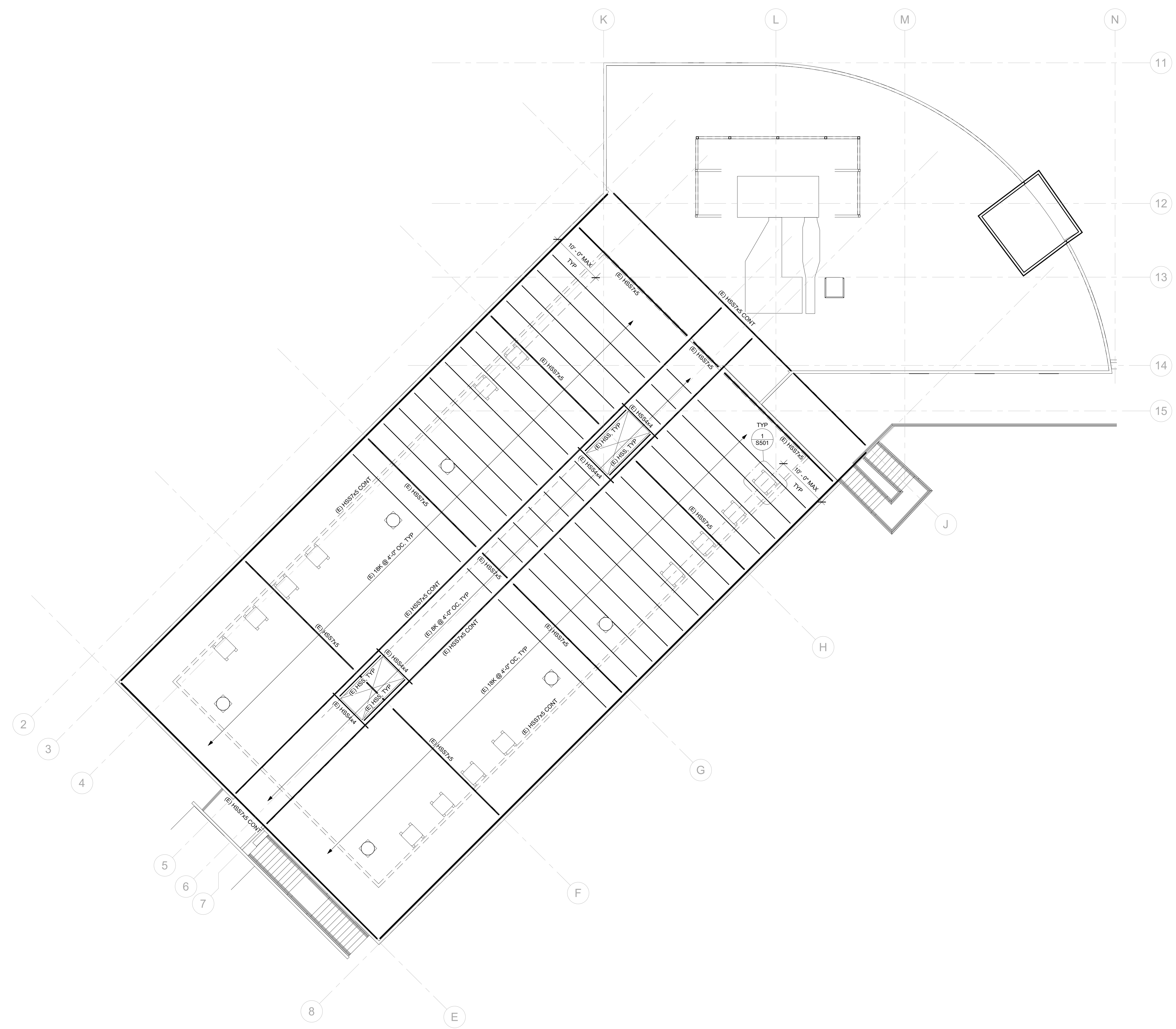
DESIGNER: Designer

PROJ. MGR: AMB

PEER REVIEW: Checker

SHEET NUMBER:

S100



1 ROOF FRAMING PLAN BUILDING B
1/8" = 1'-0"

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION

SEAL:

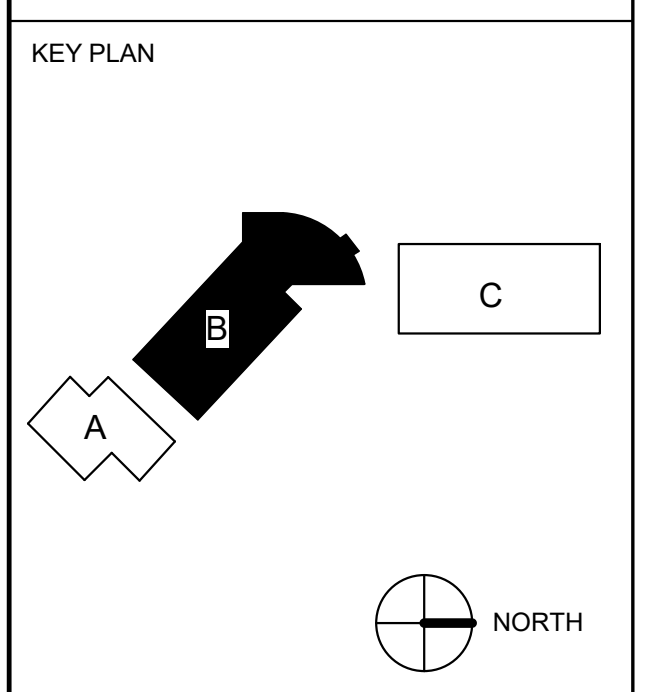
CONSULTANT:

117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 www.inres.com

PROJECT:

**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94901

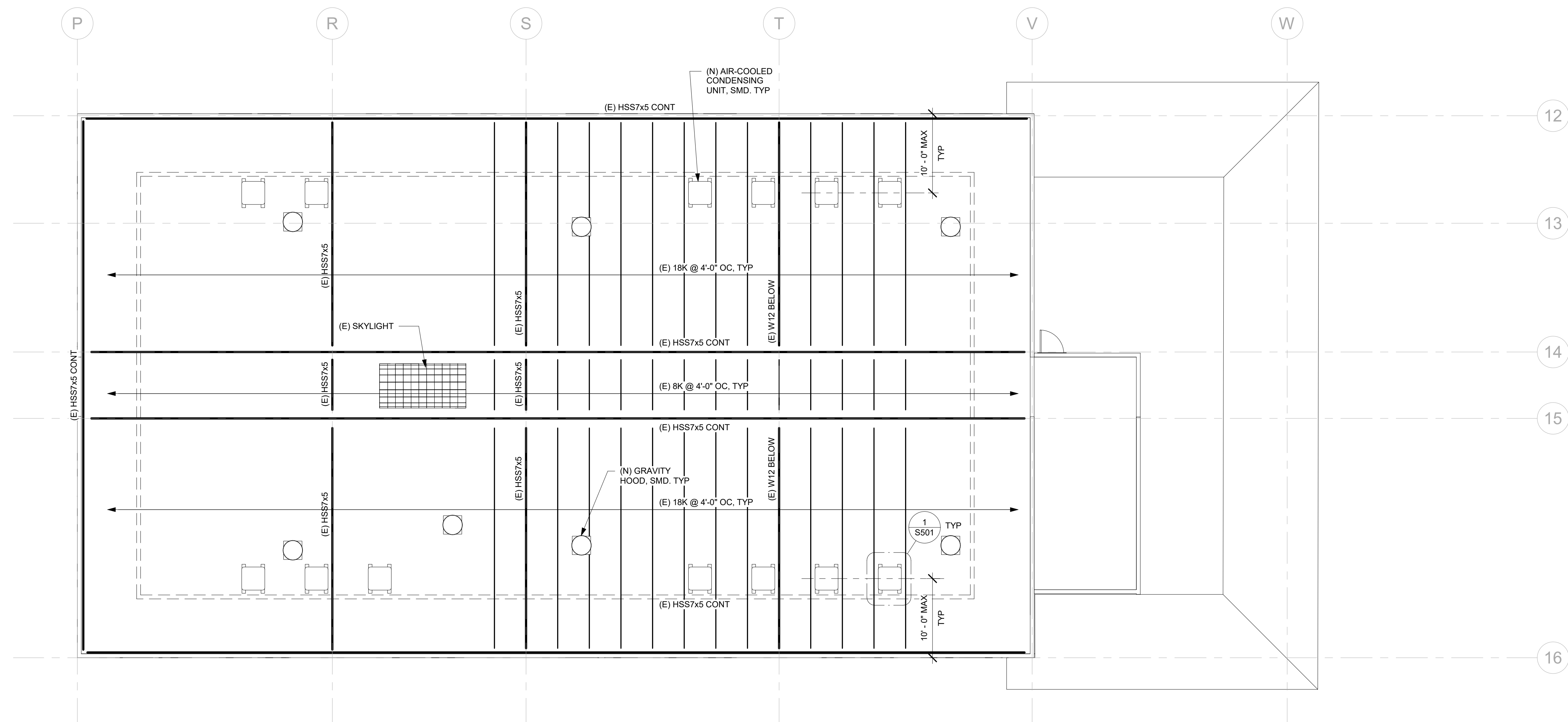


SHEET TITLE:

**ROOF FRAMING
 PLAN
 BUILDING B**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

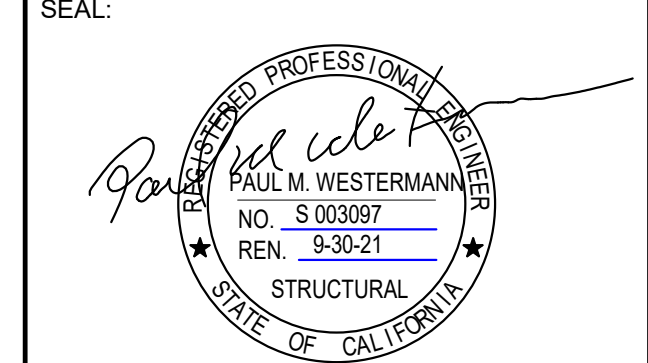
S208



1 ROOF FRAMING PLAN BUILDING C
1/8" = 1'-0"

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



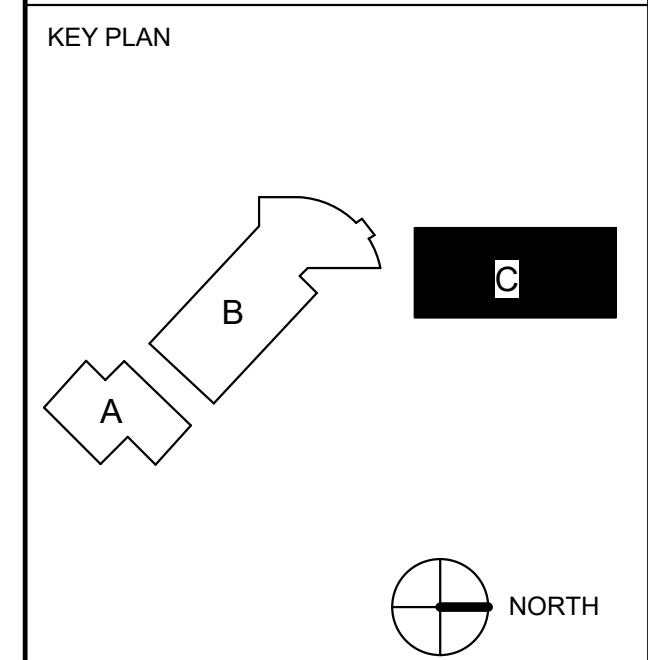
CONSULTANT:



117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 www.inres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

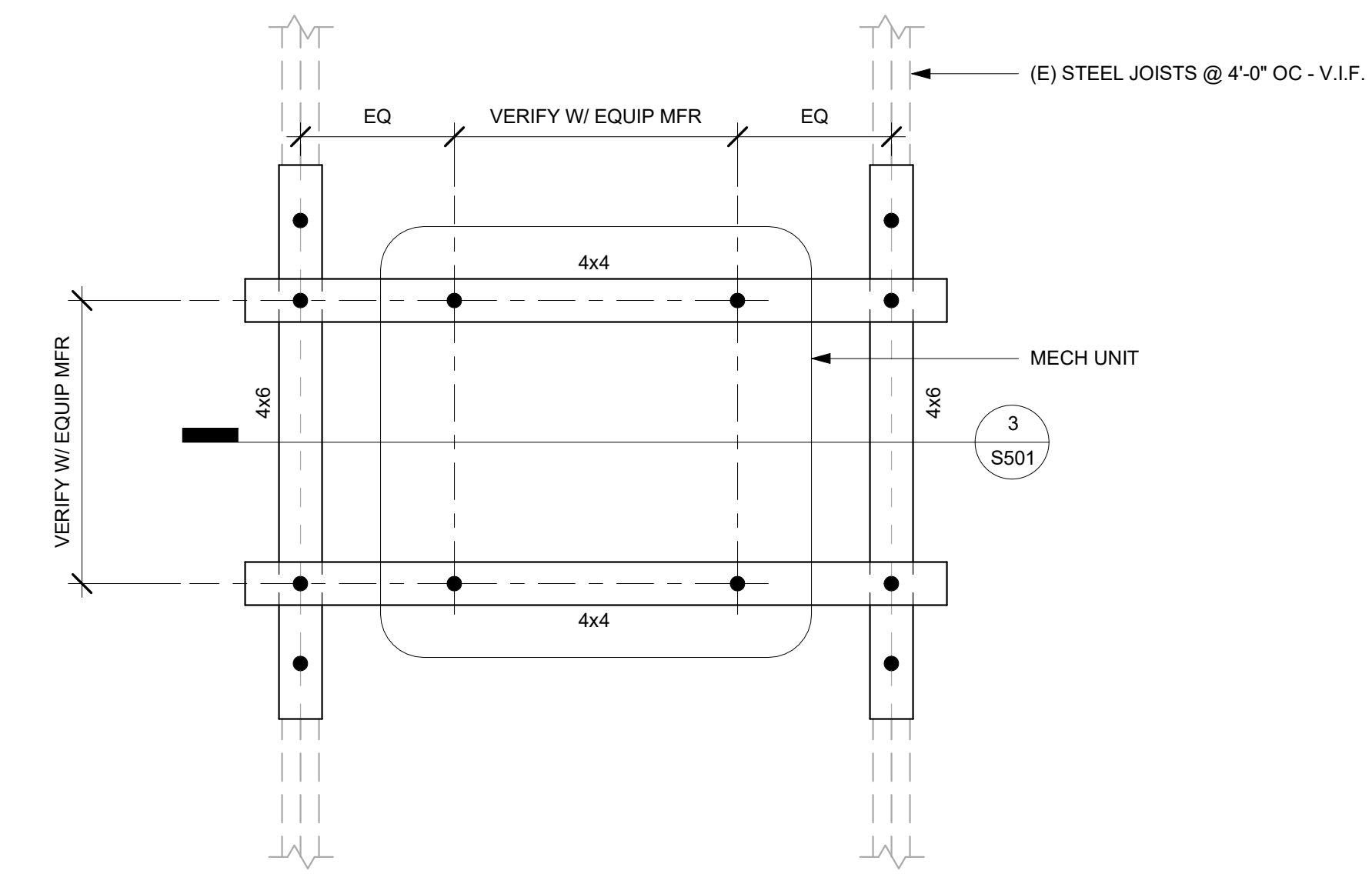
125 BAHIA WAY
 SAN RAFAEL, CA. 94901



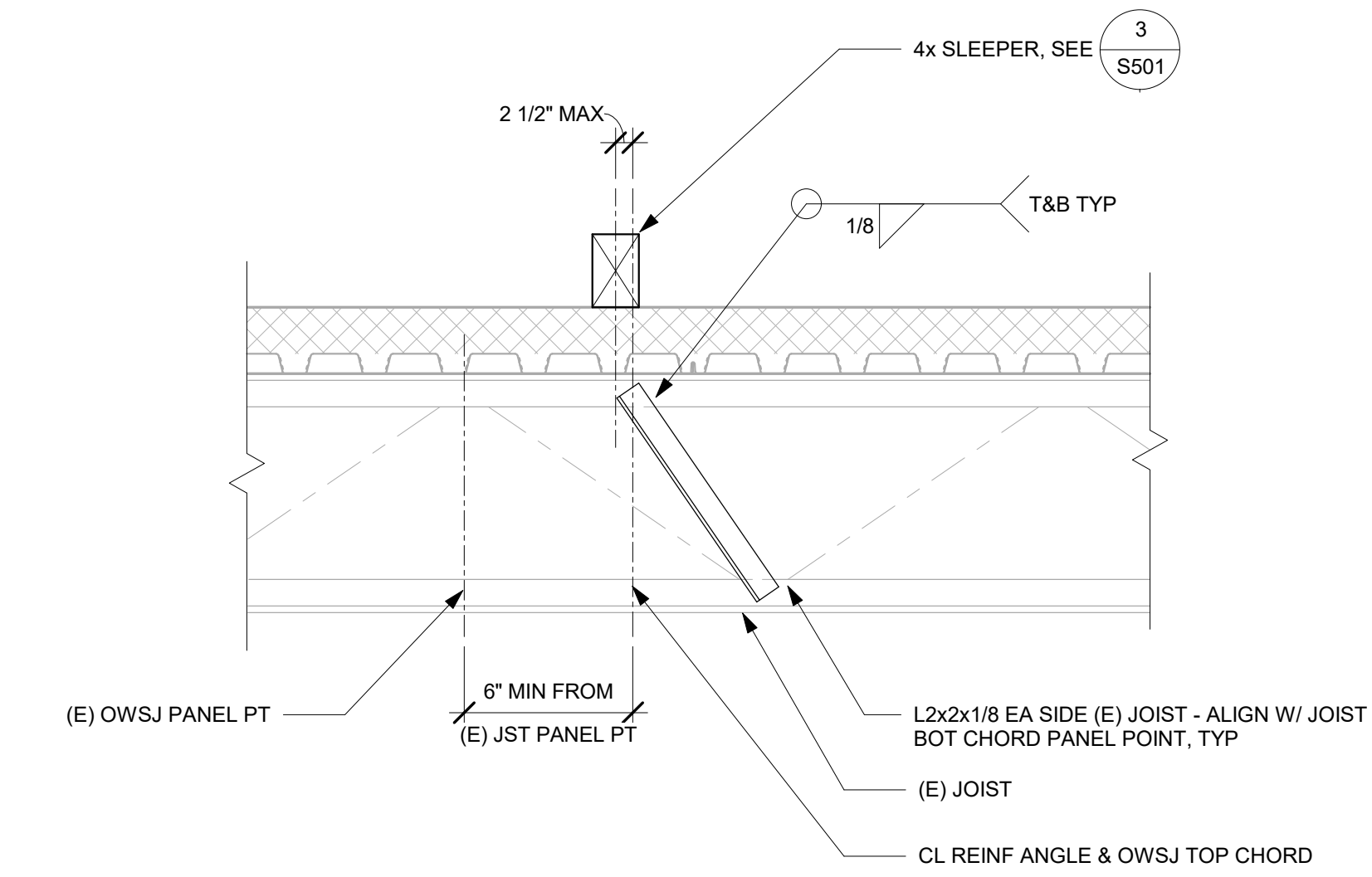
SHEET TITLE:
**ROOF FRAMING
 PLAN BUILDING C**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

S209

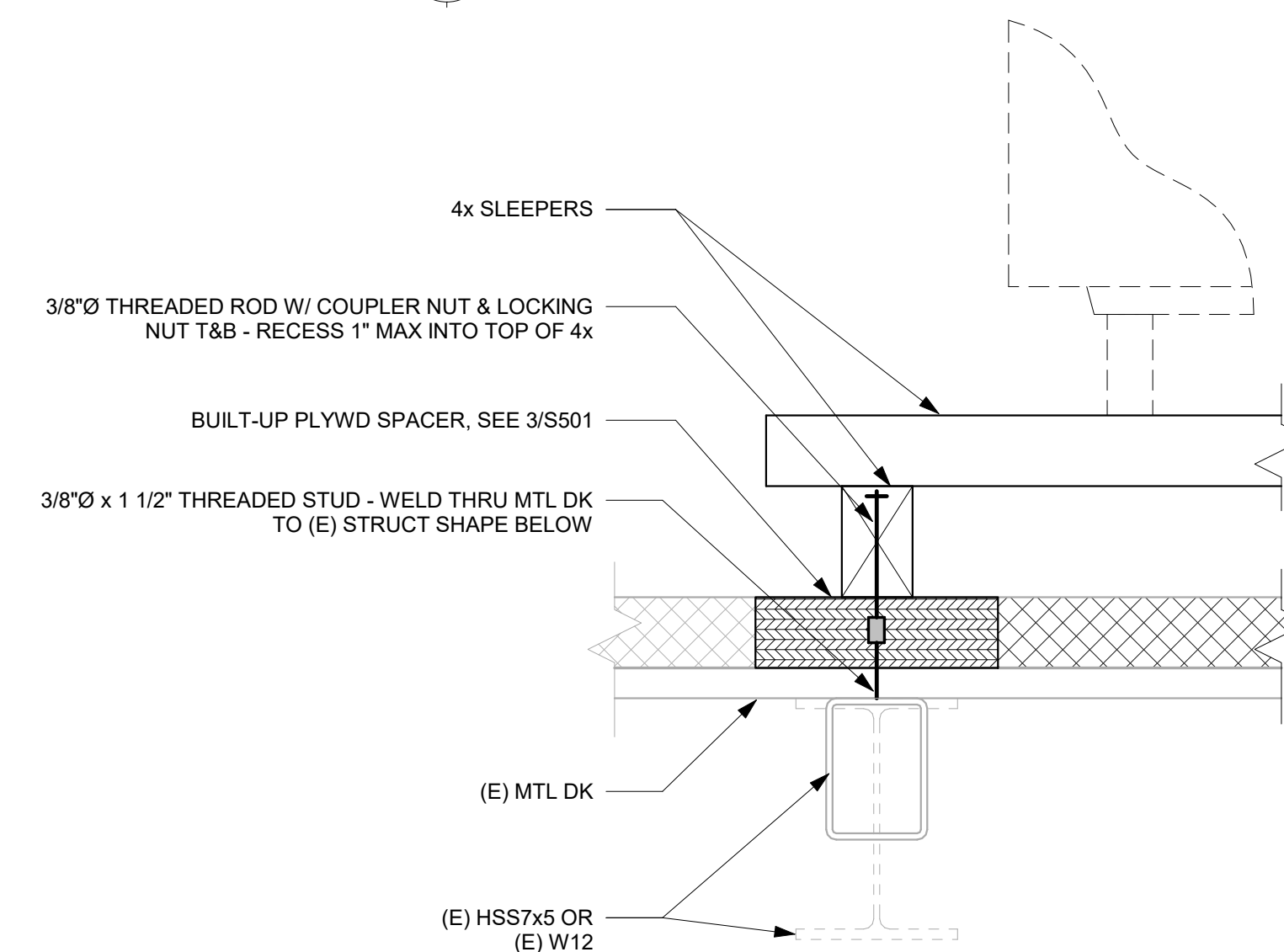


1 PLANS AT UNITS
1" = 1'-0"

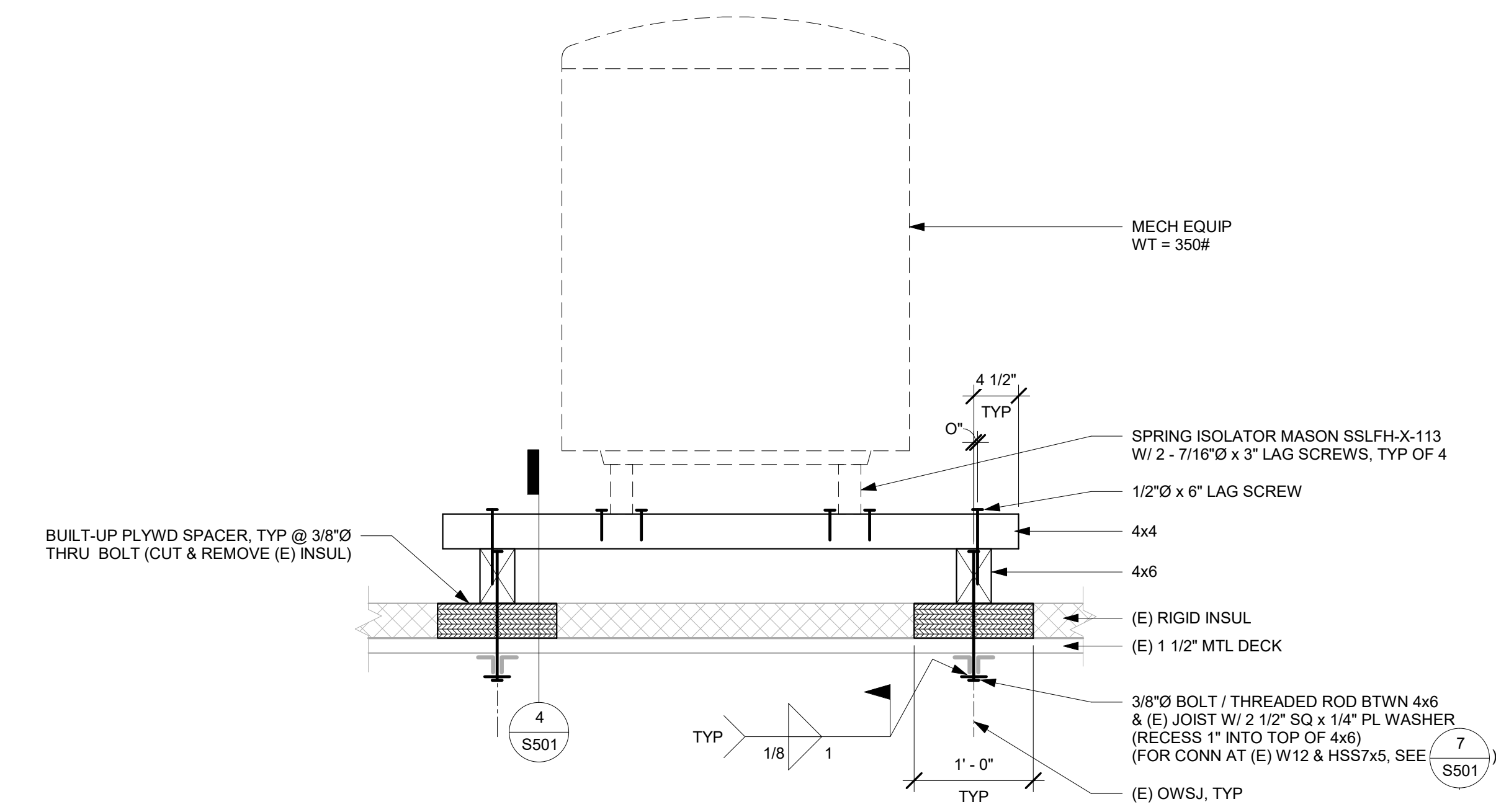


2 TRUSS REINFORCING
1" = 1'-0"

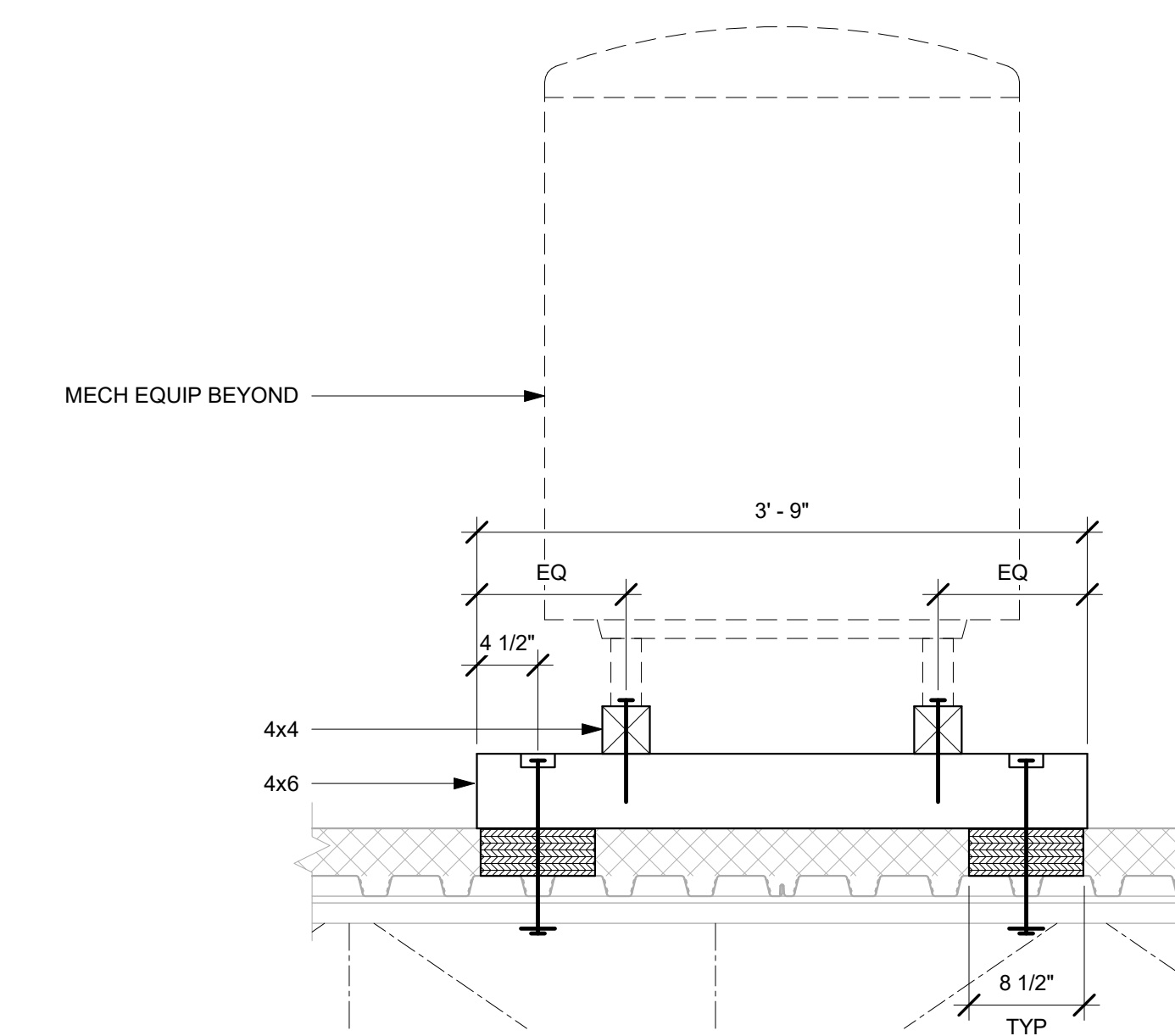
NOTE:
FOR BALANCE OF FRAMING, SEE 3 S501 SIM



7 EQUIPMENT ANCHORAGE - TYPICAL
1 1/2" = 1'-0"



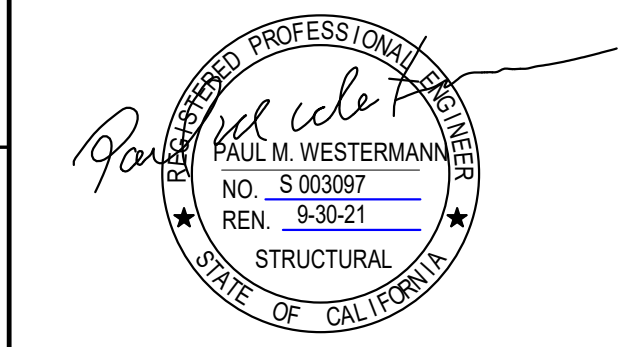
3 EQUIPMENT ANCHORAGE - TYPICAL
1" = 1'-0"



4 SECTION AT EQUIPMENT ANCHORAGE
1" = 1'-0"

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK 01.19.21
ISSUED FOR PERMIT
ISSUED FOR BID
ISSUED FOR CONSTRUCTION



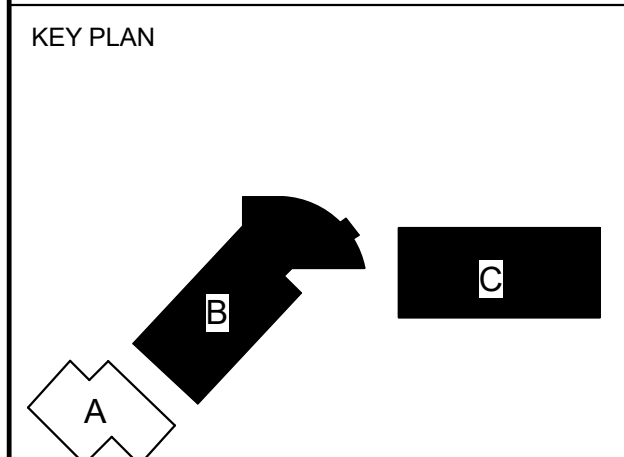
CONSULTANT:



117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94801
(510) 236-7435
www.itres.com

PROJECT:
**HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL**

125 BAHIA WAY
SAN RAFAEL, CA. 94901



SHEET TITLE:
**STRUCTURAL
DETAILS**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	Author
DESIGNER:	Designer
PROJ. MGR:	AMB
PEER REVIEW:	Checker
SHEET NUMBER:	

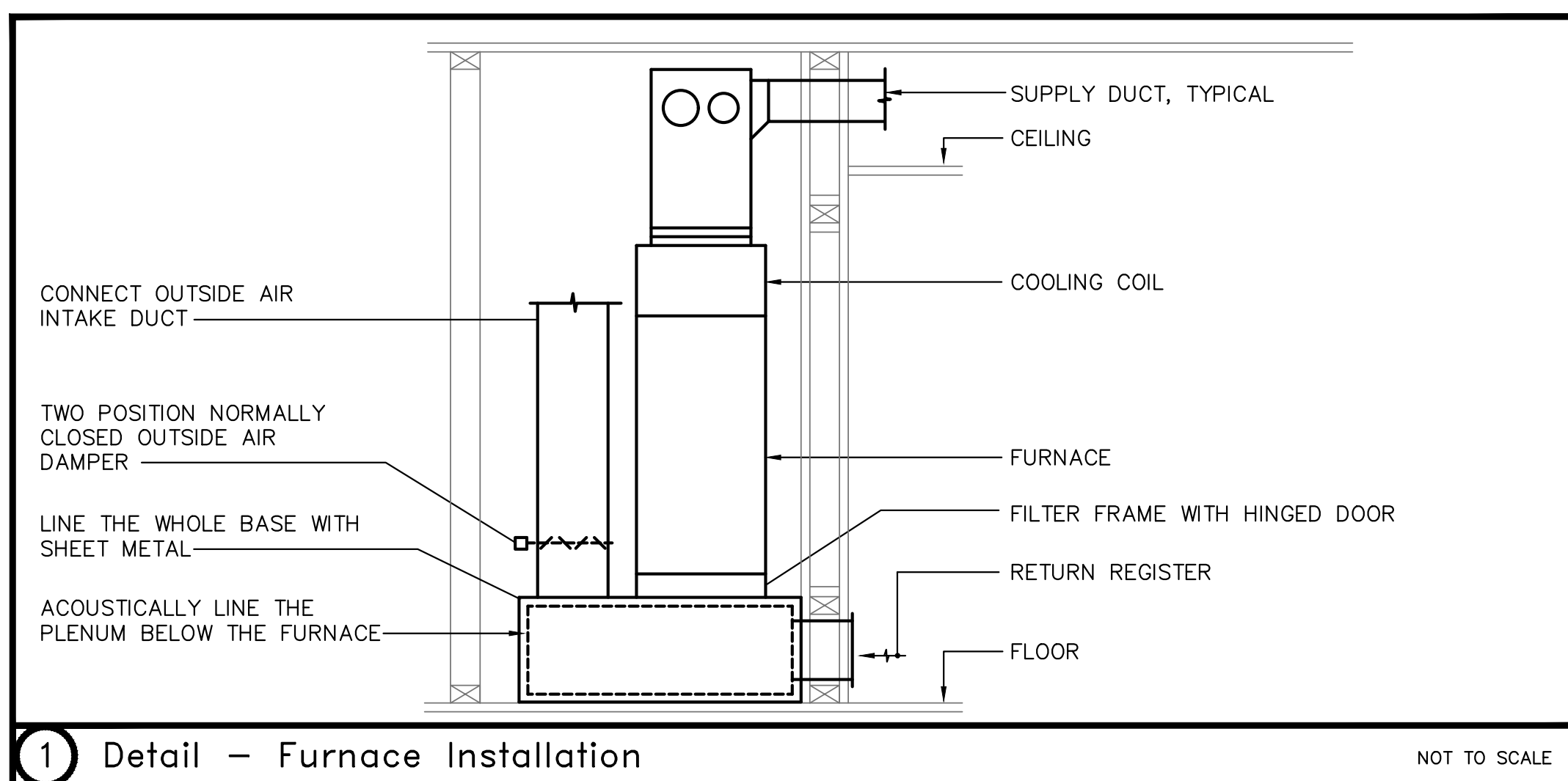
S501

Furnace Schedule												
UNIT NO.	MFR.	MODEL NO.	CFM	EXT. S.P. (IN.)	FLUE SIZE	INPUT BTUH	OUTPUT BTUH	POWER			WT. LBS.	REMARKS
								FAN HP	VOLT	PHASE		
F-1	CARRIER	EXISTING	1,670	0.8	(2) 2"	-	-	-	115	1	200	EXISTING TO REMAIN
F-2	CARRIER	EXISTING	1,185	0.8	(2) 2"	-	-	-	115	1	150	EXISTING TO REMAIN

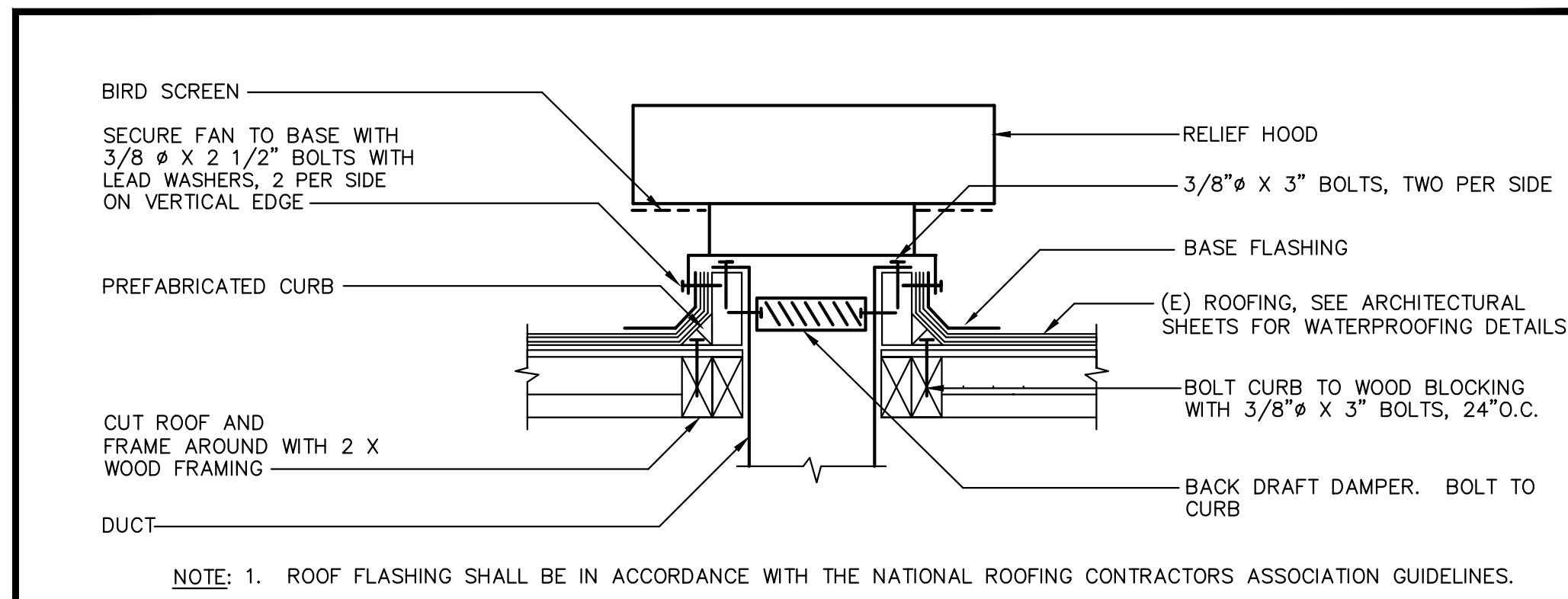
Air-Cooled Condensing Unit Schedule																
UNIT NO.	MFR.	MODEL NO.	CONDENSER FAN		COMPRESSOR		CONDENSER COIL		SENSIBLE COOLING CAPACITY (BTUH)*	POWER			APPROX. WEIGHT (LBS)	REMARKS		
			NO.	CFM	NO.	STEPS(KW)	AREA (SQ FT)	ROWS		VOLTAGE	PHASES	MCA				
AC-1	CARRIER	24ANB148	1	4309	1	1/5	1	2	4.41	30.18	2	43,130	208	1	28.4	350
AC-2	CARRIER	24ANB136	1	3124	1	1/5	1	2	2.8	30.18	2	32,870	208	1	22.6	350

* 105°F. AIR ENTERING CONDENSING UNIT, 80°F. EDB/62°F. EWB ON COOLING COIL.

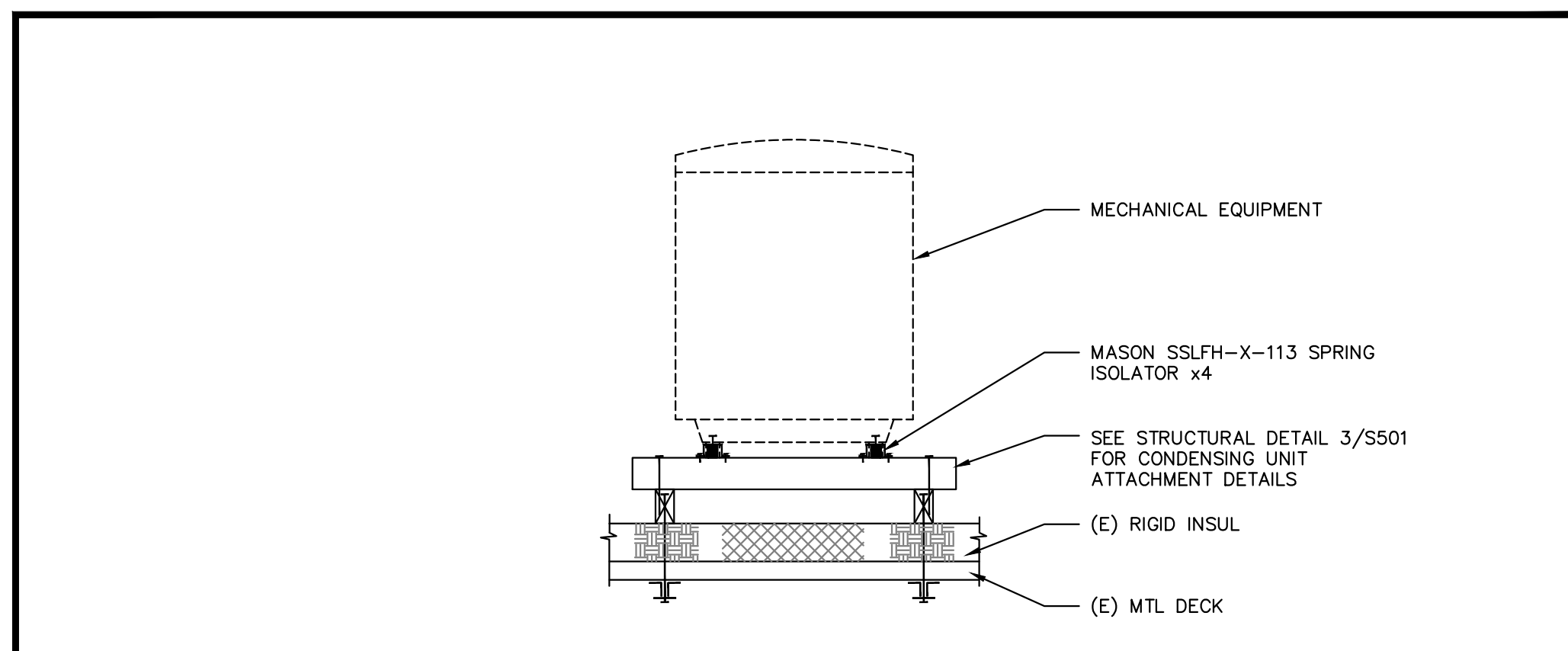
Gravity Hood Schedule									
FAN NO.	MFR.	MODEL NO.	CFM	S.P. (IN.)	INTAKE AREA	NECK SIZE	AIR FLOW DIRECTION	APPROX. WEIGHT (LBS.)	REMARKS
GR-1	COOK	16X16GR	-1670	0.038	4.33	16"x16"	RELIEF	125	WITH BACKDRAFT DAMPER
GR-2	COOK	12X18GR	-1200	0.021	4.66	12"x18"	RELIEF	50	WITH BACKDRAFT DAMPER



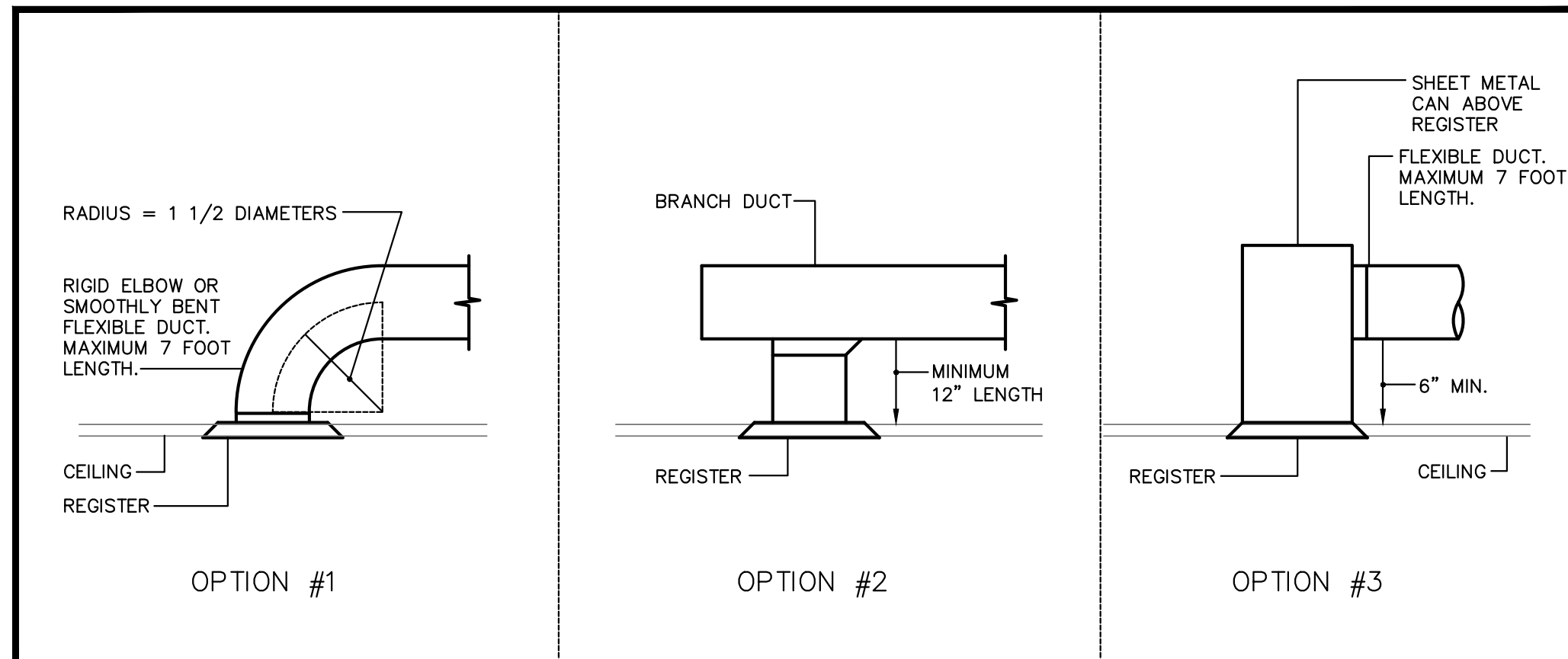
1 Detail - Furnace Installation NOT TO SCALE



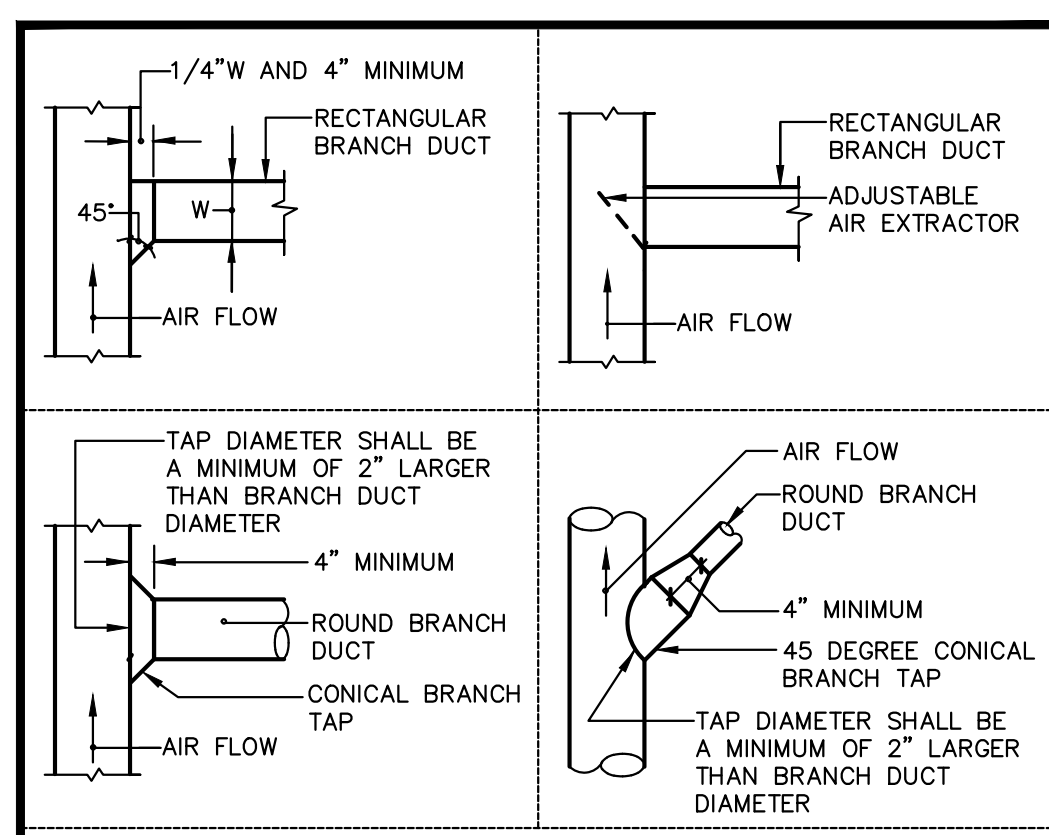
2 Detail - Relief Hood Support NOT TO SCALE



3 Detail - Equipment Support On Roof NOT TO SCALE



4 Detail - Register Connection NOT TO SCALE



5 Detail - Supply Air Branch Connections

Plumbing Legend	
	W. SOIL OR WASTE PIPING ABOVE FLOOR
	W. SOIL OR WASTE PIPING BELOW GRADE/FLOOR
	RWL. RAINWATER LEADER PIPING
	V. VENT PIPING
	CW. COLD WATER PIPING
	HW. HOT WATER PIPING
	HWR. HOT WATER RETURN PIPING
	G. GAS PIPING
	CD. CONDENSATE DRAIN PIPING
	F. FIRE PIPING
	FD, RD. FLOOR DRAIN, ROOF DRAIN
	COTG, FCO. CLEANOUT TO GRADE, FLOOR CLEANOUT
	WCO. WALL CLEANOUT
	CO. CLEANOUT
	VTR. VENT THROUGH ROOF
	WC. WATER CLOSET
	UR. URINAL
	LAV. LAVATORY
	SSK. SERVICE SINK
	SK. SINK
	SH. SHOWER
	DF. DRINKING FOUNTAIN
	HB. HOSE BIBB
	①. DESIGNATION OF SHEET NOTE #1
	(E). EXISTING
	(N). NEW
	TYP. TYPICAL
	G.V. GAS COCK
	G.V. GATE VALVE
	B.V. BALL VALVE
	CH. V. CHECK VALVE
	S. STRAINER

Mechanical Legend	
	12" ROUND DUCT, INSIDE DIAMETER INDICATED
	18x12 RECTANGULAR DUCT, INSIDE WIDTH AND INSIDE DEPTH
	SUPPLY DUCT, SECTION
	RETURN DUCT, SECTION
	EXHAUST DUCT, SECTION
	FD FIRE DAMPER IN DUCT
	SBD SINGLE BLADE VOLUME DAMPER
	TV TURNING VANE
	TAO TAKE-OFF WITH ADJUSTABLE TURNING VANE
	RTC ROUND CONICAL TEE WITH TAKE-OFF AT 45° TO DIRECTION OF MAIN DUCT
	AP ACCESS PANEL IN DUCT
	IAI INTERNAL ACOUSTIC INSULATION INSIDE DUCT, SIZES SHOWN ARE NET INSIDE
	500 18x18x1 CEILING DIFFUSER, CFM ON TOP, NECK SIZE AND NUMBER OF DIRECTIONS OF BLOW ON BOTTOM
	200 12x12 CEILING RETURN REGISTER, CFM ON TOP, NECK SIZE ON BOTTOM
	200 12x12 CEILING EXHAUST REGISTER, CFM ON TOP, NECK SIZE ON BOTTOM
	200 12x12 SIDEWALL EXHAUST, RETURN, OR RELIEF REGISTER, CFM ON TOP, NECK SIZE ON BOTTOM
	500 18x12x1 SIDEWALL DIFFUSER, CFM ON TOP, NECK SIZE AND NUMBER OF DIRECTIONS OF BLOW ON BOTTOM
	TYP. THERMOSTAT MOUNT ON WALL
	TYP. TYPICAL
	(E). EXISTING
	(N). NEW
	NTS. NOT TO SCALE
	DN. DOWN
	AF. ABOVE THE FINISHED FLOOR
	①. DESIGNATION OF SHEET NOTE #1

Bracing Note

MFP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- 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 THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- 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.
- 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

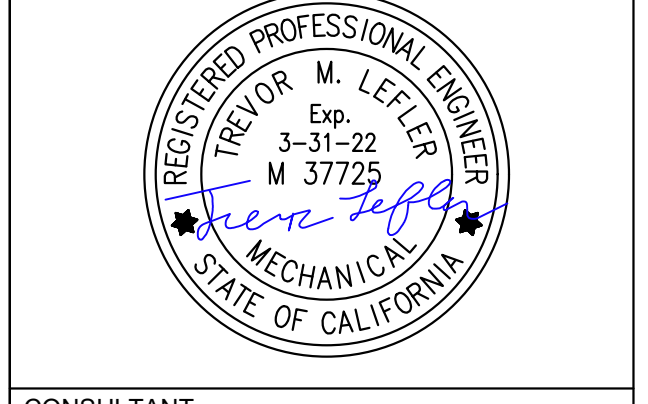
PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

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 (eg. 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.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM#).

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



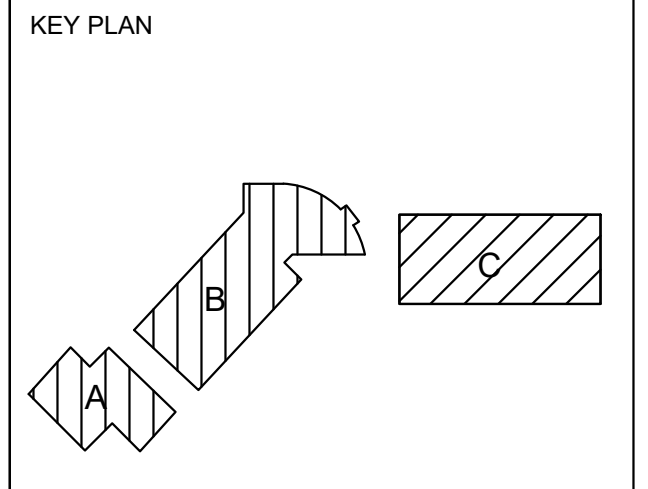
CONSULTANT:
LEFLER ENGINEERING, INC.
 1651 Second Street
 San Rafael, CA 94901
 (415) 456-4220
 (415) 456-1248 fax



117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94901
 (510) 236-7435
 www.itres.com

HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

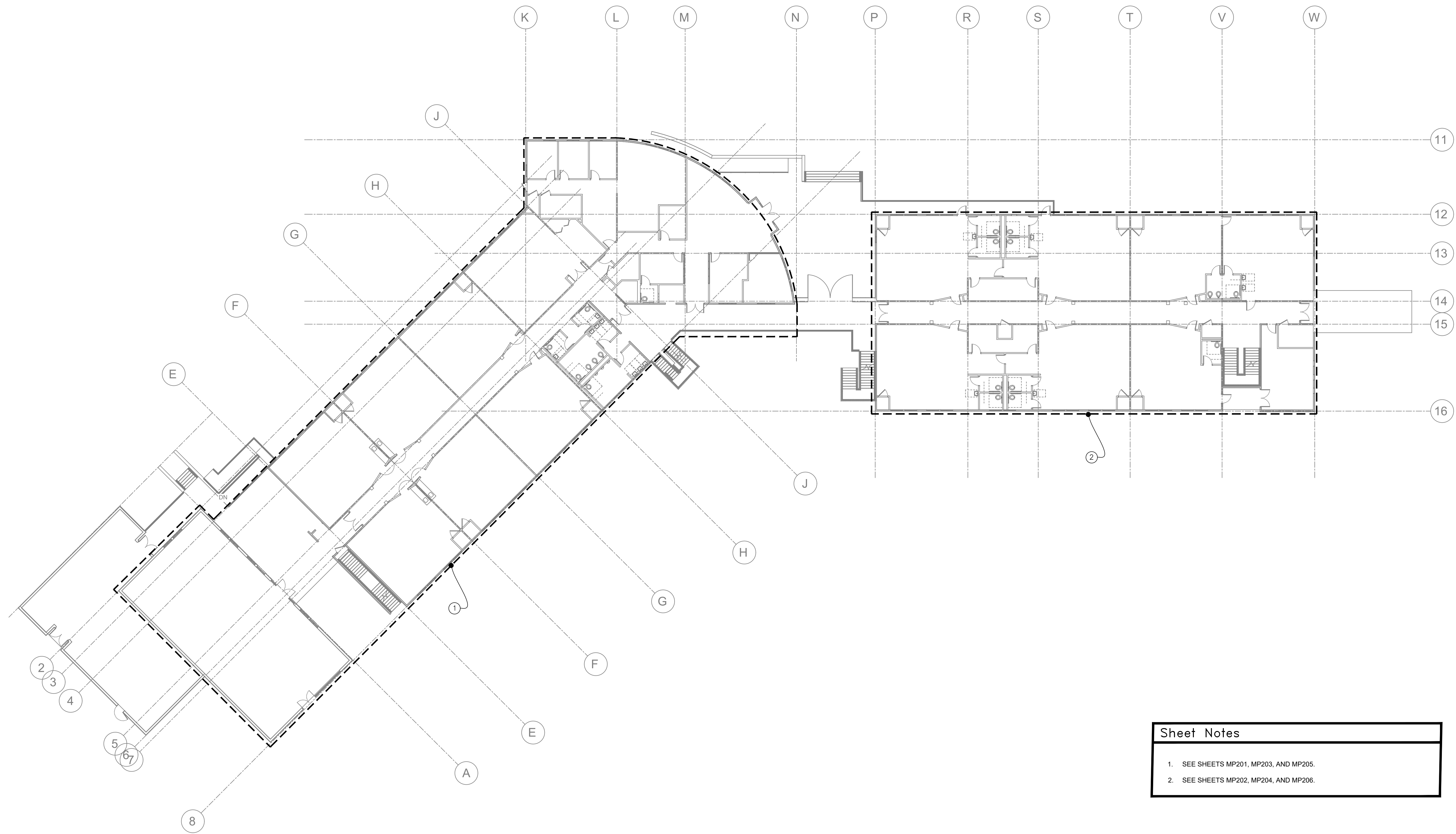
125 BAHIA WAY
 SAN RAFAEL, CA. 94901



MECHANICAL AND PLUMBING SCHEDULES AND LEGENDS

PROJ. NO.	PREPARATION AND REVIEW
DRAWN BY:	
PROJ. MGR:	
PEER REVIEW:	
SHEET NUMBER:	

MP001

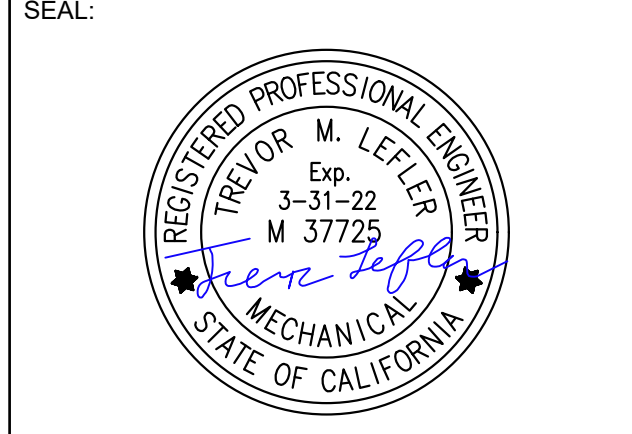


Sheet Notes

- SEE SHEETS MP201, MP203, AND MP205.
- SEE SHEETS MP202, MP204, AND MP206.

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



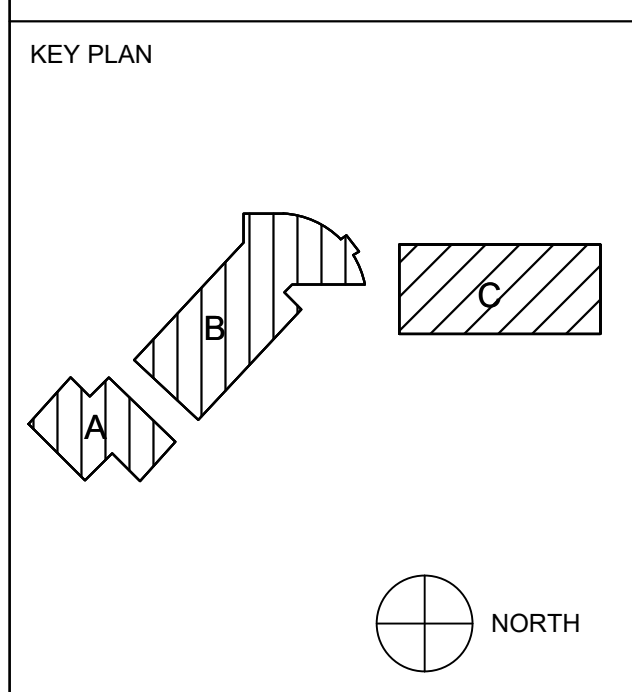
CONSULTANT:
LEFLER ENGINEERING, INC.
 1651 Second Street
 San Rafael, CA 94901
 (415) 456-4220
 (415) 456-1248 fax

ir INTERACTIVE RESOURCES
 architects + engineers

117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94901
 (510) 236-7435
 www.itres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94901



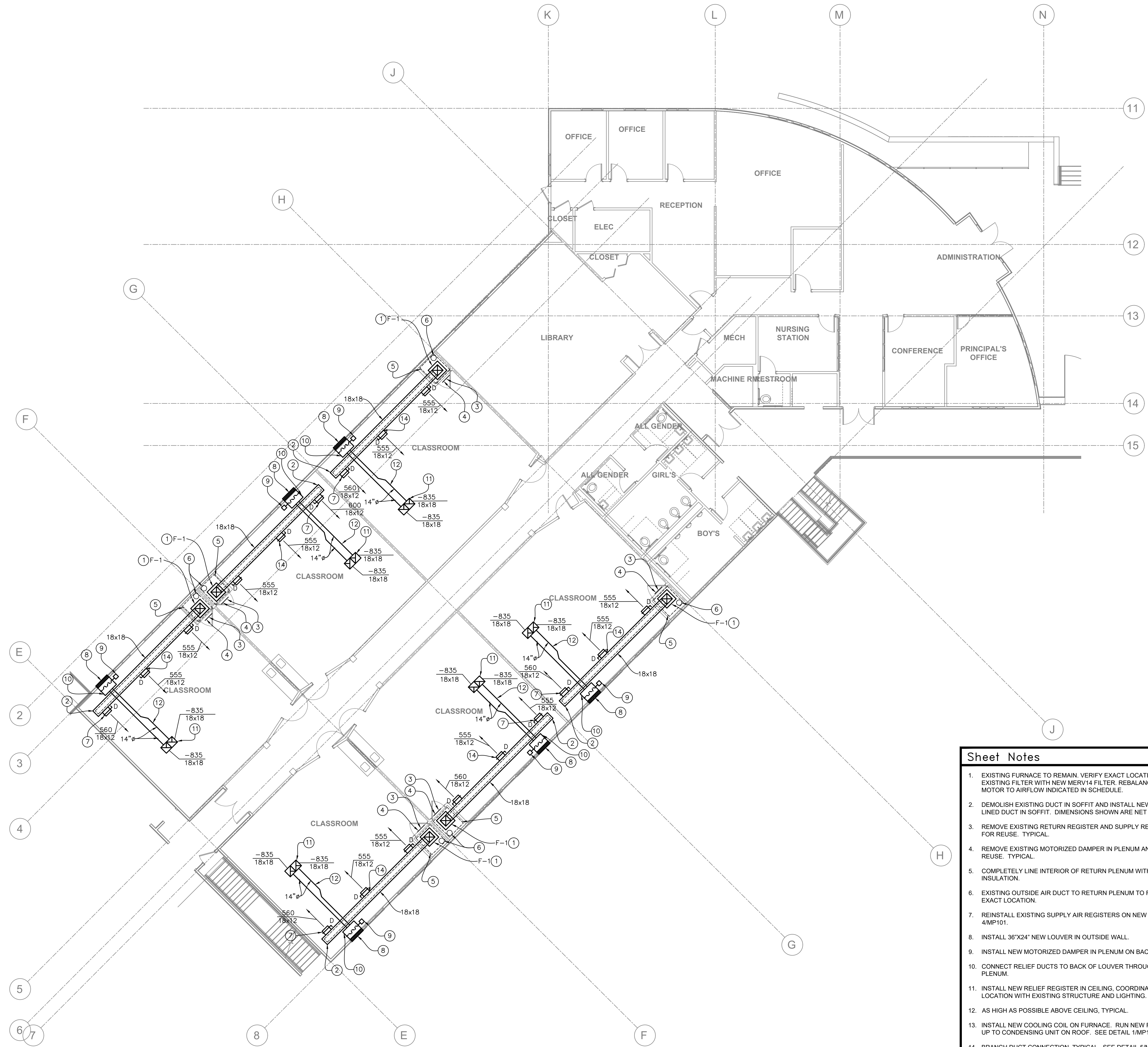
SHEET TITLE:
**MECHANICAL
 AND PLUMBING
 SITE PLAN**

PROJ. NO. _____
 PREPARATION AND REVIEW
 DRAWN BY: _____
 DESIGNER: _____
 PROJ. MGR: _____
 PEER REVIEW: _____
 SHEET NUMBER: _____

MP101

1 MECHANICAL AND PLUMBING SITE PLAN
 1/16" = 1'-0"





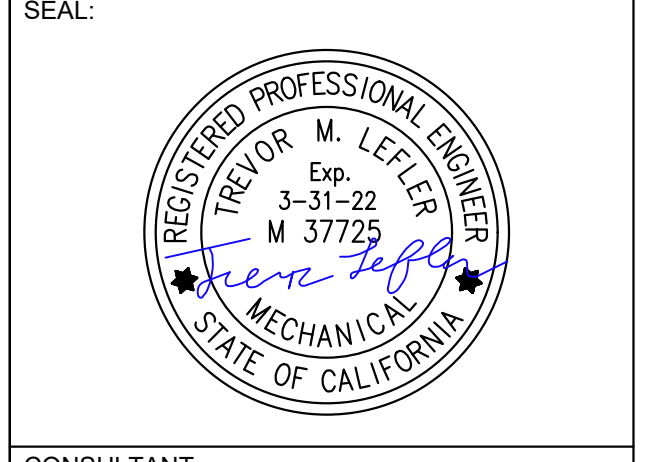
- Sheet Notes**
- EXISTING FURNACE TO REMAIN. VERIFY EXACT LOCATION. REPLACE EXISTING FILTER WITH NEW MERV14 FILTER. REBALANCE FURNACE MOTOR TO AIRFLOW INDICATED IN SCHEDULE.
 - DEMOLISH EXISTING DUCT IN SOFFIT AND INSTALL NEW ACOUSTICALLY LINED DUCT IN SOFFIT. DIMENSIONS SHOWN ARE NET INSIDE.
 - REMOVE EXISTING RETURN REGISTER AND SUPPLY REGISTERS AND KEEP FOR REUSE. TYPICAL.
 - REMOVE EXISTING MOTORIZED DAMPER IN PLENUM AND KEEP FOR REUSE. TYPICAL.
 - COMPLETELY LINE INTERIOR OF RETURN PLENUM WITH ACOUSTIC INSULATION.
 - EXISTING OUTSIDE AIR DUCT TO RETURN PLENUM TO REMAIN. VERIFY EXACT LOCATION.
 - REINSTALL EXISTING SUPPLY AIR REGISTERS ON NEW DUCT. SEE DETAIL 4/MP101.
 - INSTALL 36"x24" NEW LOUVER IN OUTSIDE WALL.
 - INSTALL NEW MOTORIZED DAMPER IN PLENUM ON BACK OF LOUVER.
 - CONNECT RELIEF DUCTS TO BACK OF LOUVER THROUGH FULL SIZE PLENUM.
 - INSTALL NEW RELIEF REGISTER IN CEILING, COORDINATE EXACT LOCATION WITH EXISTING STRUCTURE AND LIGHTING. TYPICAL.
 - AS HIGH AS POSSIBLE ABOVE CEILING, TYPICAL.
 - INSTALL NEW COOLING COIL ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 1/MP101.
 - BRANCH DUCT CONNECTION, TYPICAL. SEE DETAIL 5/MP101.

1 MECHANICAL AND PLUMBING LEVEL 1 BUILDING B
1/8" = 1'-0"



REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
ISSUED FOR PLAN CHECK 01.19.21
ISSUED FOR PERMIT
ISSUED FOR BID
ISSUED FOR CONSTRUCTION



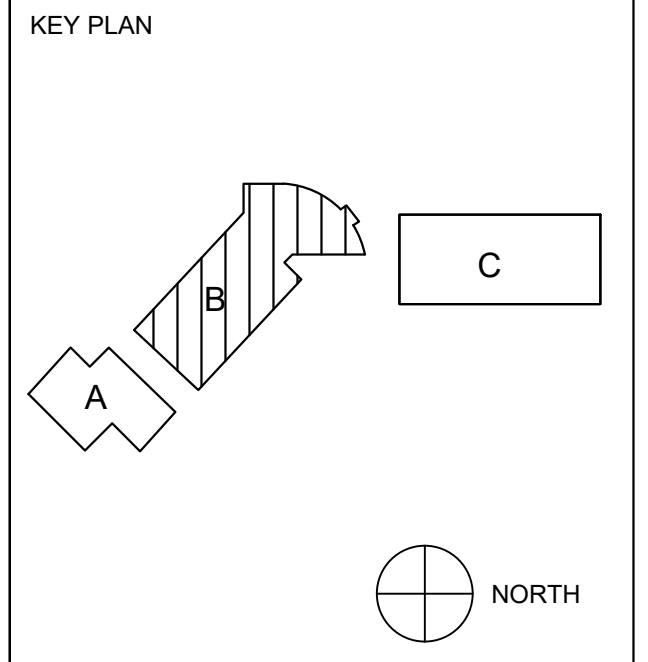
CONSULTANT:
LEFLER ENGINEERING, INC.
1651 Second Street
San Rafael, CA 94901
(415) 456-4220
(415) 456-1248 fax



117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94901
(510) 236-7435
www.irtres.com

PROJECT:
**HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL**

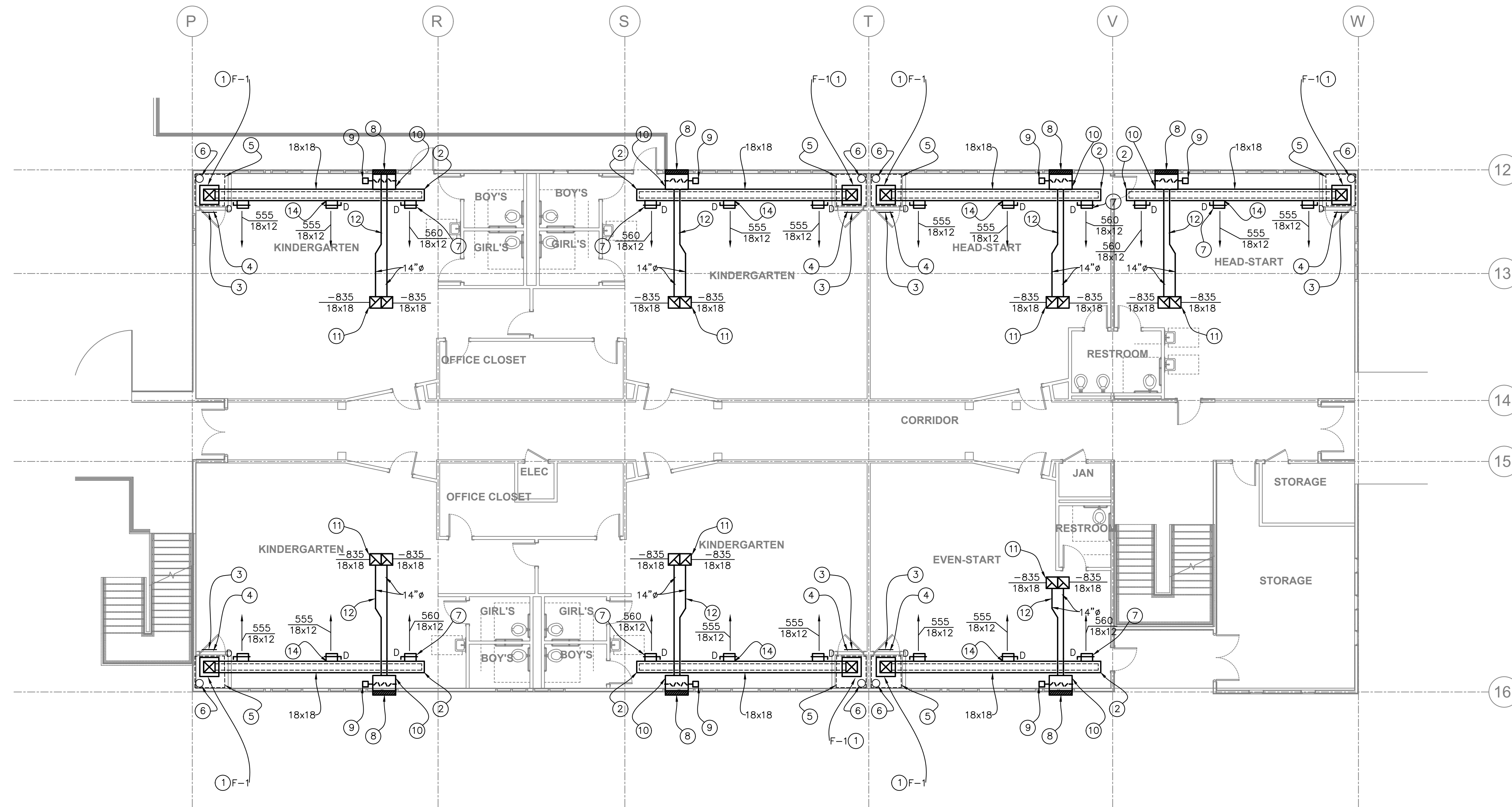
125 BAHIA WAY
SAN RAFAEL, CA. 94901



SHEET TITLE:
**MECHANICAL
AND PLUMBING
BUILDING B
LEVEL 1 FLOOR
PLAN**

PROJ. NO. _____
PREPARATION AND REVIEW
DRAWN BY: _____
PROJ. MGR: _____
DESIGNER: _____
PEER REVIEW: _____
SHEET NUMBER: _____

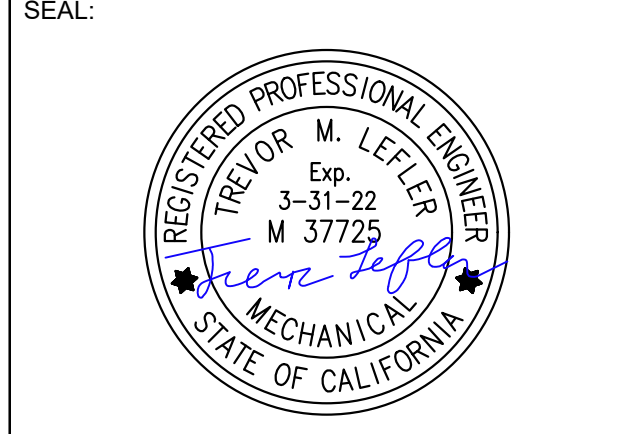
MP201



- Sheet Notes**
- EXISTING FURNACE TO REMAIN. VERIFY EXACT LOCATION. REPLACE EXISTING FILTER WITH NEW MERV14 FILTER. REBALANCE FURNACE MOTOR TO AIRFLOW INDICATED IN SCHEDULE.
 - DEMOLISH EXISTING DUCT IN SOFFIT AND INSTALL NEW ACOUSTICALLY LINED DUCT IN SOFFIT. DIMENSIONS SHOWN ARE NET INSIDE.
 - REMOVE EXISTING RETURN REGISTER AND SUPPLY REGISTERS AND KEEP FOR REUSE. TYPICAL.
 - REMOVE EXISTING MOTORIZED DAMPER IN PLENUM AND KEEP FOR REUSE. TYPICAL.
 - COMPLETELY LINE INTERIOR OF RETURN PLENUM WITH ACOUSTIC INSULATION.
 - EXISTING OUTSIDE AIR DUCT TO RETURN PLENUM TO REMAIN. VERIFY EXACT LOCATION.
 - REINSTALL EXISTING SUPPLY AIR REGISTERS ON NEW DUCT. SEE DETAIL 4MP101.
 - INSTALL 36"x24" NEW LOUVER IN OUTSIDE WALL.
 - INSTALL NEW MOTORIZED DAMPER IN PLENUM ON BACK OF LOUVER.
 - CONNECT RELIEF DUCTS TO BACK OF LOUVER THROUGH FULL SIZE PLENUM.
 - INSTALL NEW RELIEF REGISTER IN CEILING. COORDINATE EXACT LOCATION WITH EXISTING STRUCTURE AND LIGHTING. TYPICAL.
 - AS HIGH AS POSSIBLE ABOVE CEILING. TYPICAL.
 - INSTALL NEW COOLING COIL ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 1MP101.
 - BRANCH DUCT CONNECTION. TYPICAL. SEE DETAIL 5MP101.

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



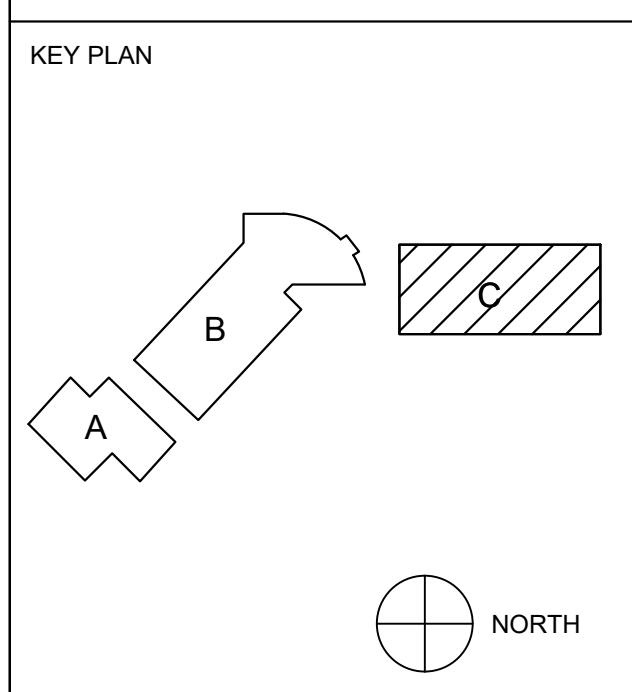
CONSULTANT:
LEFLER ENGINEERING, INC.
 1651 Second Street
 San Rafael, CA 94901
 (415) 456-4220
 (415) 456-1248 fax



117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94901
 (510) 236-7435
 www.itres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94901

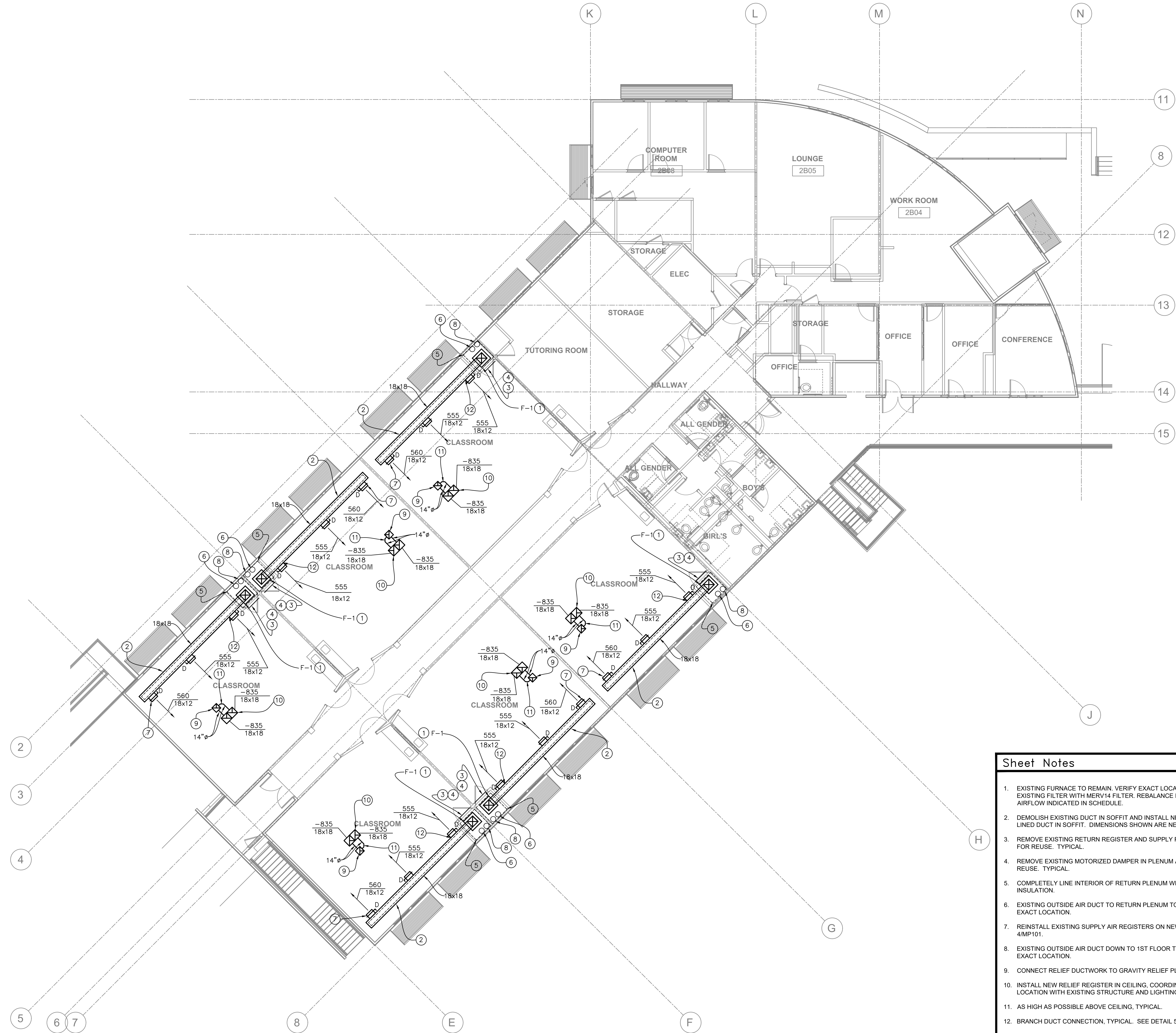


SHEET TITLE:
**MECHANICAL
 AND PLUMBING
 BUILDING C
 LEVEL 1 FLOOR
 PLAN**

PROJ. NO. _____
 PREPARATION AND REVIEW
 DRAWN BY: _____
 DESIGNER: _____
 PROJ. MGR. _____
 PEER REVIEW _____
 SHEET NUMBER: _____



MP202



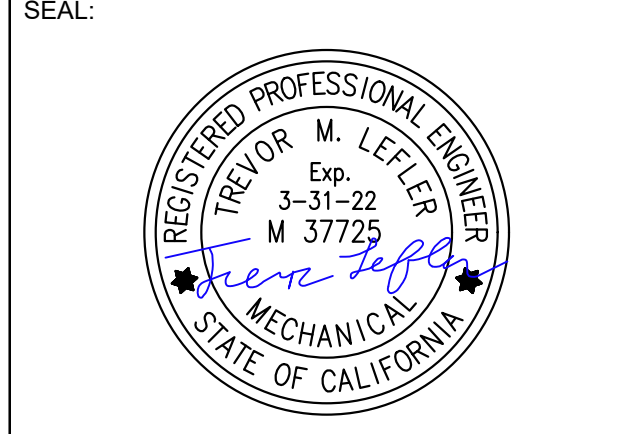
- Sheet Notes**
- EXISTING FURNACE TO REMAIN. VERIFY EXACT LOCATION. REPLACE EXISTING FILTER WITH MERV14 FILTER. REBALANCE FURNACE MOTOR AIRFLOW INDICATED IN SCHEDULE.
 - DEMOLISH EXISTING DUCT IN SOFFIT AND INSTALL NEW ACOUSTICALLY LINED DUCT IN SOFFIT. DIMENSIONS SHOWN ARE NET INSIDE.
 - REMOVE EXISTING RETURN REGISTER AND SUPPLY REGISTERS AND KEEP FOR REUSE. TYPICAL.
 - REMOVE EXISTING MOTORIZED DAMPER IN PLENUM AND KEEP FOR REUSE. TYPICAL.
 - COMPLETELY LINE INTERIOR OF RETURN PLENUM WITH ACOUSTIC INSULATION.
 - EXISTING OUTSIDE AIR DUCT TO RETURN PLENUM TO REMAIN. VERIFY EXACT LOCATION.
 - REINSTALL EXISTING SUPPLY AIR REGISTERS ON NEW DUCT. SEE DETAIL 4/MP101.
 - EXISTING OUTSIDE AIR DUCT DOWN TO 1ST FLOOR TO REMAIN. VERIFY EXACT LOCATION.
 - CONNECT RELIEF DUCTWORK TO GRAVITY RELIEF PLENUM.
 - INSTALL NEW RELIEF REGISTER IN CEILING. COORDINATE EXACT LOCATION WITH EXISTING STRUCTURE AND LIGHTING. TYPICAL.
 - AS HIGH AS POSSIBLE ABOVE CEILING. TYPICAL.
 - BRANCH DUCT CONNECTION. TYPICAL. SEE DETAIL 5/MP101.
 - INSTALL NEW COOLING COIL ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 1/MP101.

1 MECHANICAL AND PLUMBING LEVEL 2 BUILDING B
1/8" = 1'-0"



REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01.19.21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



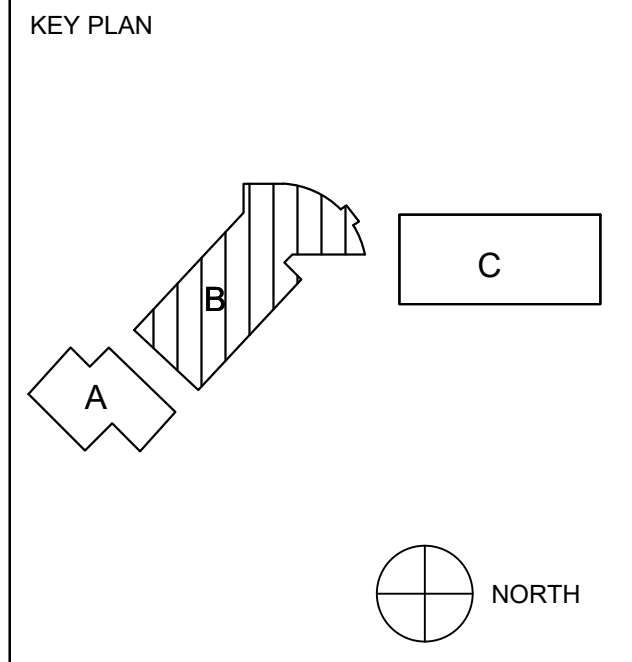
CONSULTANT:
LEFLER ENGINEERING, INC.
 1651 Second Street
 San Rafael, CA 94901
 (415) 456-4220
 (415) 456-1248 fax



117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94901
 (510) 236-7435
 www.itres.com

PROJECT:
**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

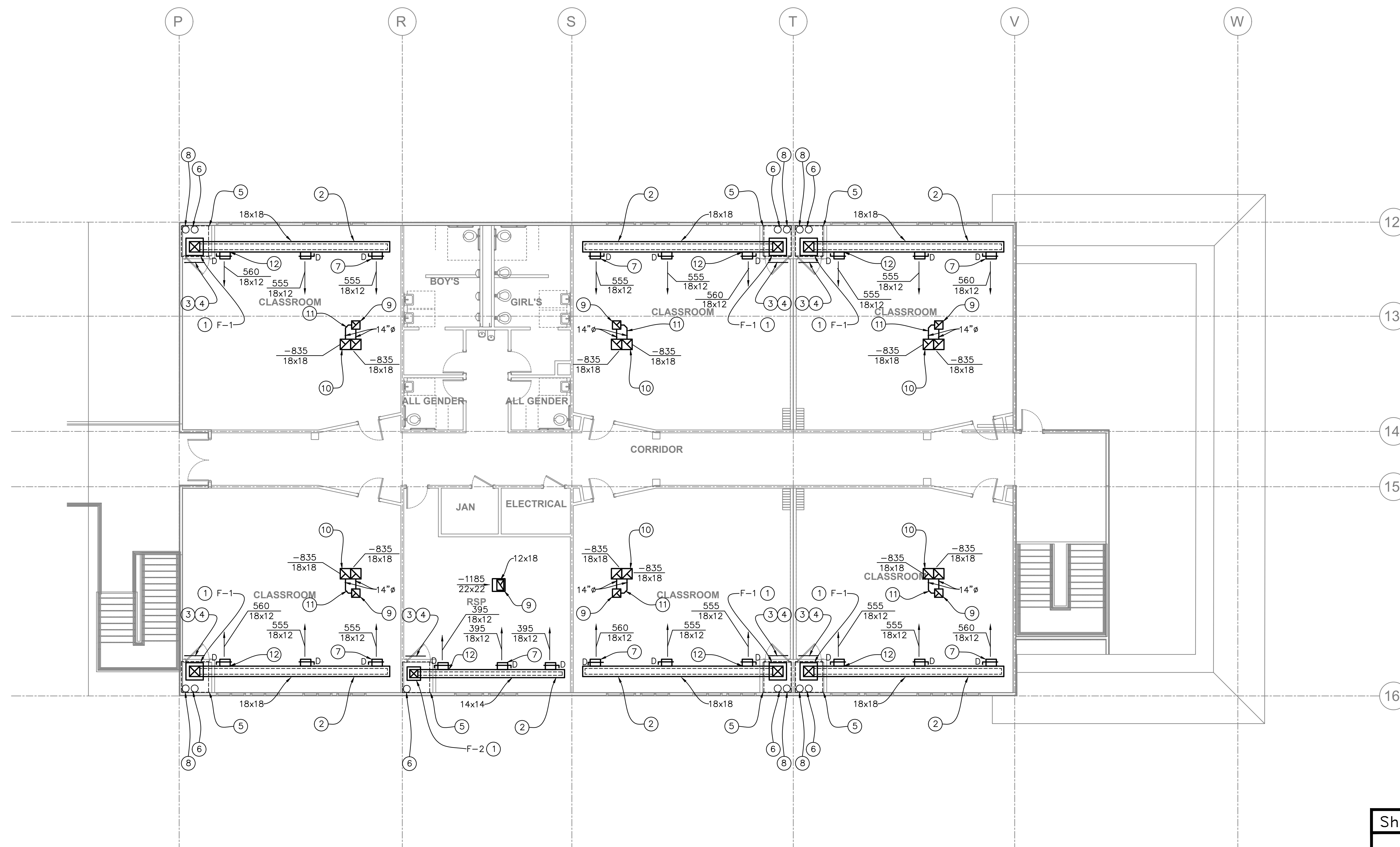
125 BAHIA WAY
 SAN RAFAEL, CA. 94901



SHEET TITLE:
**MECHANICAL
 AND PLUMBING
 BUILDING B
 LEVEL 2 FLOOR
 PLAN**

PROJ. NO.	
PREPARATION AND REVIEW	
DRAWN BY:	
DESIGNER:	
PROJ. MGR.	
PEER REVIEW	
SHEET NUMBER:	

MP203

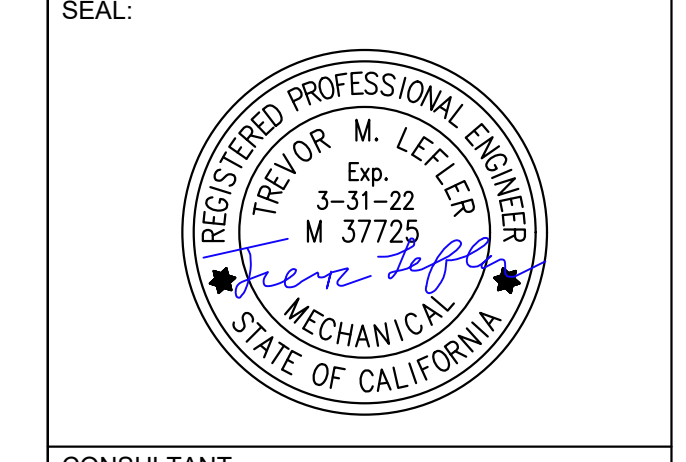


1 MECHANICAL AND PLUMBING LEVEL 2 BUILDING C
1/8" = 1'-0"

- ### Sheet Notes
- EXISTING FURNACE TO REMAIN. VERIFY EXACT LOCATION. REPLACE EXISTING FILTER WITH NEW MERV14 FILTER. REBALANCE FURNACE MOTOR TO AIRFLOW INDICATED IN SCHEDULE.
 - DEMOLISH EXISTING DUCT IN SOFFIT AND INSTALL NEW ACOUSTICALLY LINED DUCT IN SOFFIT. DIMENSIONS SHOWN ARE NET INSIDE.
 - REMOVE EXISTING RETURN REGISTER AND SUPPLY REGISTERS AND KEEP FOR REUSE. TYPICAL.
 - REMOVE EXISTING MOTORIZED DAMPER IN PLENUM AND KEEP FOR REUSE. TYPICAL.
 - COMPLETELY LINE INTERIOR OF RETURN PLENUM WITH ACOUSTIC INSULATION.
 - EXISTING OUTSIDE AIR DUCT TO RETURN PLENUM TO REMAIN. VERIFY EXACT LOCATION.
 - REINSTALL EXISTING SUPPLY AIR REGISTERS ON NEW DUCT. SEE DETAIL 4/MP101.
 - EXISTING OUTSIDE AIR DUCT DOWN TO 1ST FLOOR TO REMAIN. VERIFY EXACT LOCATION.
 - CONNECT RELIEF DUCTWORK TO GRAVITY RELIEF PLENUM.
 - INSTALL NEW RELIEF REGISTER IN CEILING. COORDINATE EXACT LOCATION WITH EXISTING STRUCTURE AND LIGHTING. TYPICAL.
 - AS HIGH AS POSSIBLE ABOVE CEILING. TYPICAL.
 - BRANCH DUCT CONNECTION. TYPICAL. SEE DETAIL 5/MP101.
 - INSTALL NEW COOLING COIL ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 1/MP101.



REVISION	DESCRIPTION	INITIAL	DATE



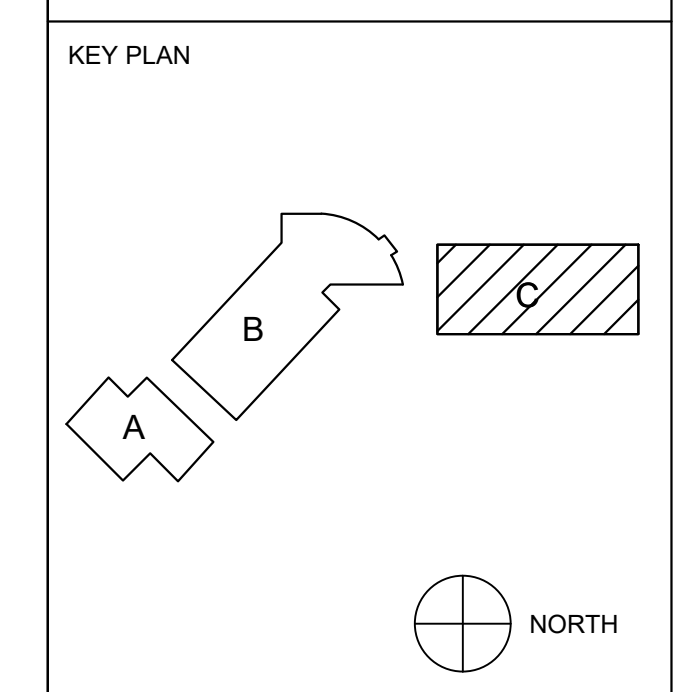
CONSULTANT:
LEFLER ENGINEERING, INC.
1651 Second Street
San Rafael, CA 94901
(415) 456-4220
(415) 456-1248 fax



117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94901
(510) 236-7435
www.itres.com

PROJECT:
**HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL**

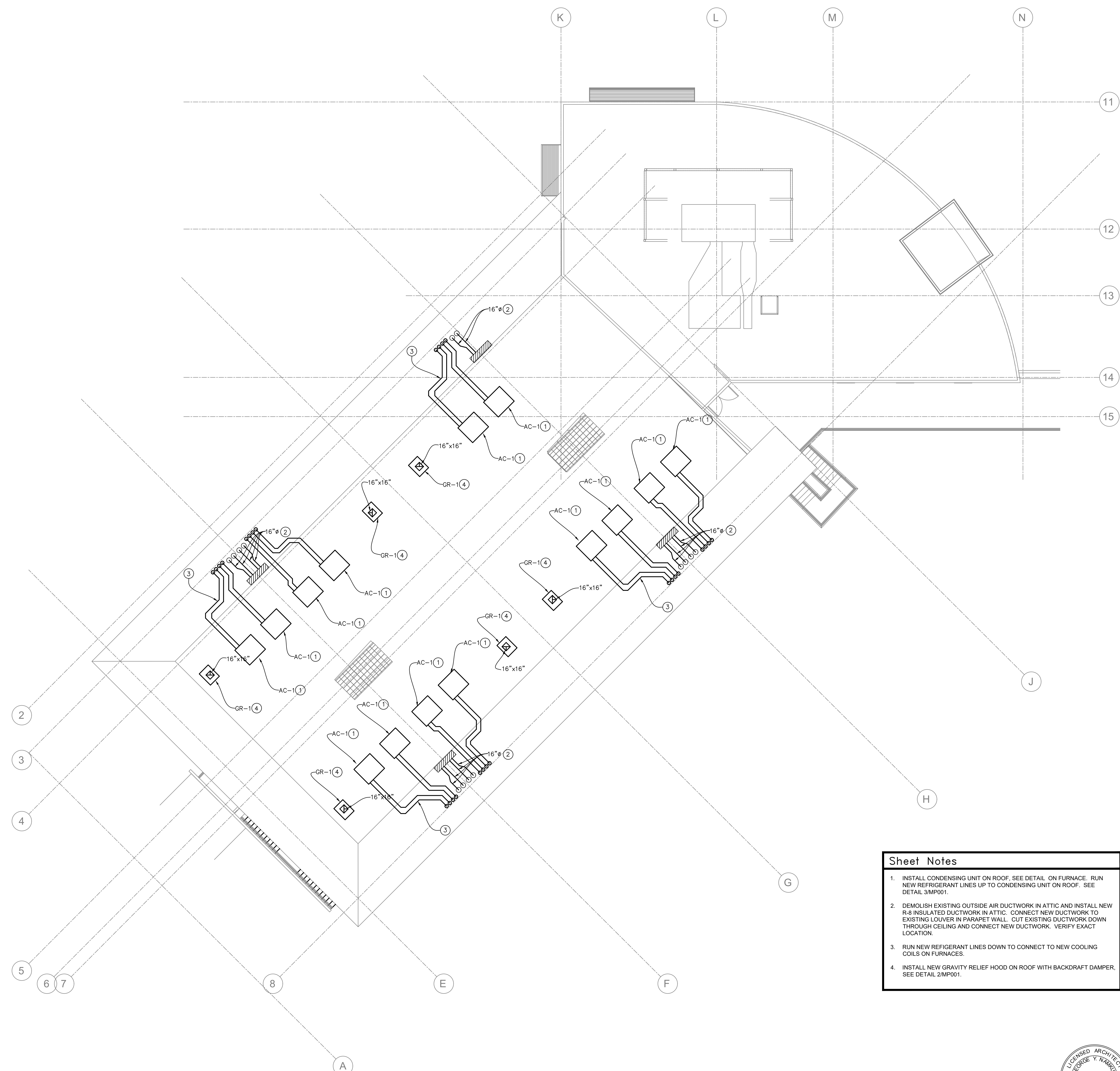
125 BAHIA WAY
SAN RAFAEL, CA. 94901



SHEET TITLE:
**MECHANICAL
AND PLUMBING
BUILDING C
LEVEL 2 FLOOR
PLAN**

PROJ. NO.	
PREPARATION AND REVIEW	
DRAWN BY:	
DESIGNER:	
PROJ. MGR:	
PEER REVIEW:	
SHEET NUMBER:	

MP204

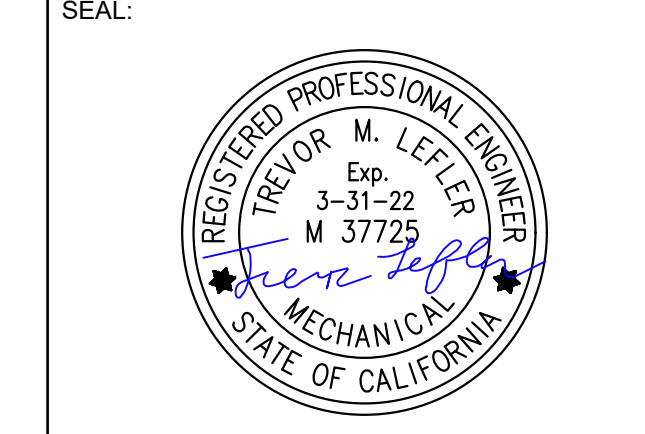


1 MECHANICAL AND PLUMBING ROOF PLAN BUILDING B
1/8" = 1'-0"

- Sheet Notes**
1. INSTALL CONDENSING UNIT ON ROOF. SEE DETAIL ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 3/MP001.
 2. DEMOLISH EXISTING OUTSIDE AIR DUCTWORK IN ATTIC AND INSTALL NEW R-8 INSULATED DUCTWORK IN ATTIC. CONNECT NEW DUCTWORK TO EXISTING LOUVER IN PARAPET WALL. CUT EXISTING DUCTWORK DOWN THROUGH CEILING AND CONNECT NEW DUCTWORK. VERIFY EXACT LOCATION.
 3. RUN NEW REFRIGERANT LINES DOWN TO CONNECT TO NEW COOLING COILS ON FURNACES.
 4. INSTALL NEW GRAVITY RELIEF HOOD ON ROOF WITH BACKDRAFT DAMPER. SEE DETAIL 2/MP001.



REVISION	DESCRIPTION	INITIAL	DATE



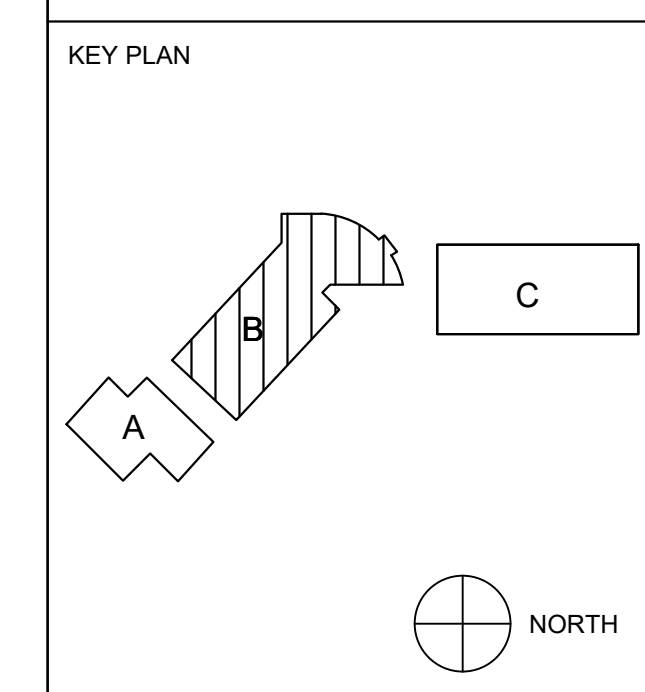
CONSULTANT:
LEFLER ENGINEERING, INC.
1651 Second Street
San Rafael, CA 94901
(415) 456-4220
(415) 456-1248 fax



117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94801
(510) 236-7435
www.itres.com

PROJECT:
**HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL**

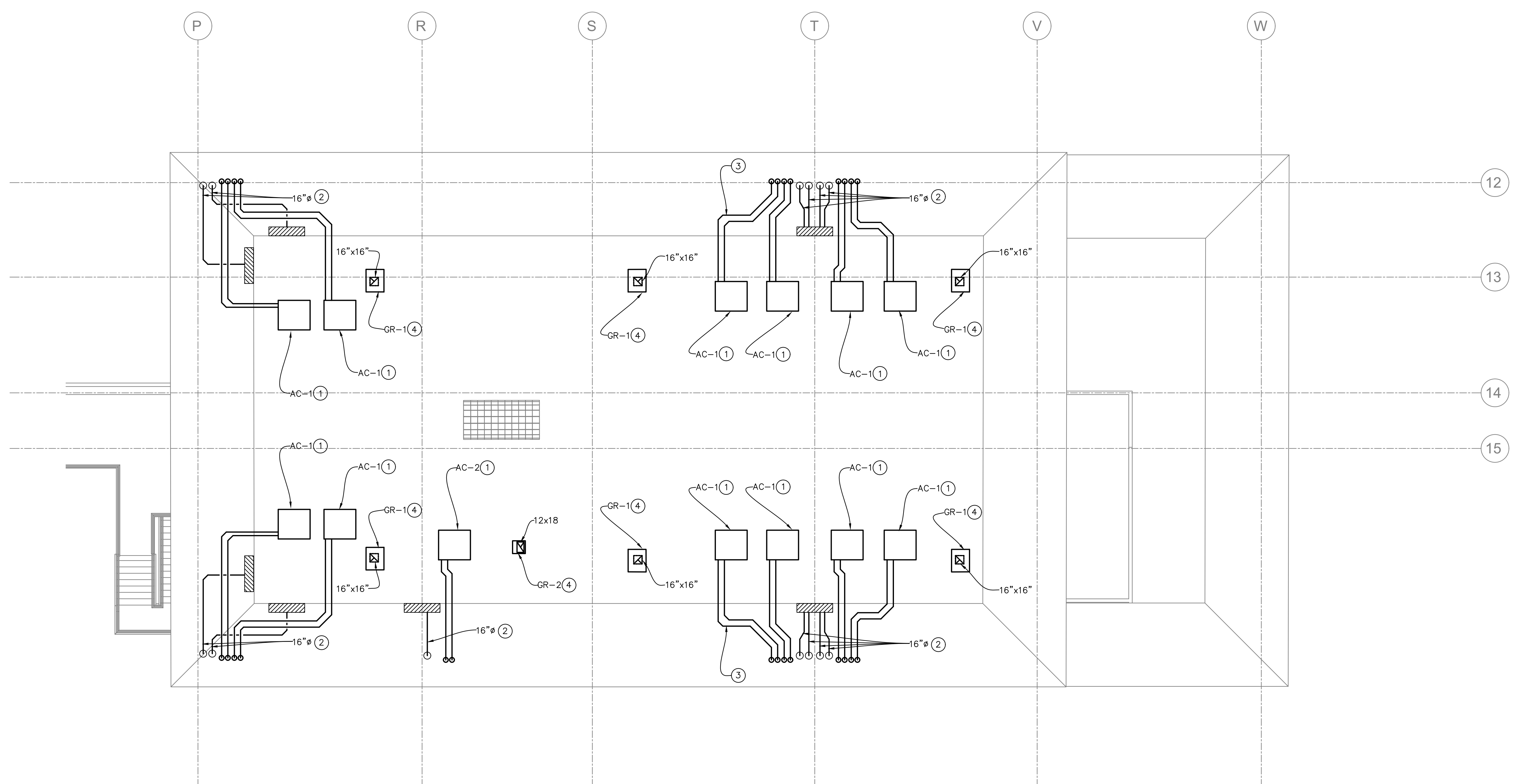
125 BAHIA WAY
SAN RAFAEL, CA. 94901



SHEET TITLE:
**MECHANICAL
AND PLUMBING
BUILDING B
ROOF PLAN**

PROJ. NO.	
PREPARATION AND REVIEW	
DRAWN BY:	
DESIGNER:	
PROJ. MGR:	
PEER REVIEW	
SHEET NUMBER:	

MP205

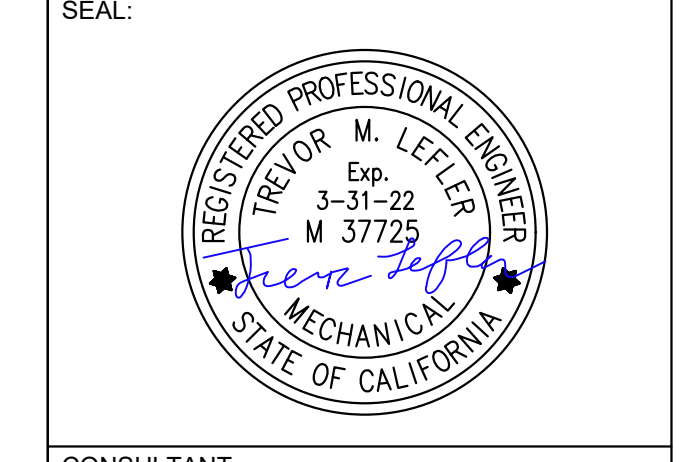


- Sheet Notes**
1. INSTALL CONDENSING UNIT ON ROOF. SEE DETAIL. ON FURNACE. RUN NEW REFRIGERANT LINES UP TO CONDENSING UNIT ON ROOF. SEE DETAIL 3/MP001.
 2. DEMOLISH EXISTING OUTSIDE AIR DUCTWORK IN ATTIC AND INSTALL NEW R-8 INSULATED DUCTWORK IN ATTIC. CONNECT NEW DUCTWORK TO EXISTING LOUVER IN PARAPET WALL. CUT EXISTING DUCTWORK DOWN THROUGH CEILING AND CONNECT NEW DUCTWORK. VERIFY EXACT LOCATION.
 3. RUN NEW REFRIGERANT LINES DOWN TO CONNECT TO NEW COOLING COILS ON FURNACES.
 4. INSTALL NEW GRAVITY RELIEF HOOD ON ROOF WITH BACKDRAFT DAMPER, SEE DETAIL 2/MP001.

1 MECHANICAL AND PLUMBING ROOF PLAN BUILDING C
1/8" = 1'-0"



REVISION	DESCRIPTION	INITIAL	DATE



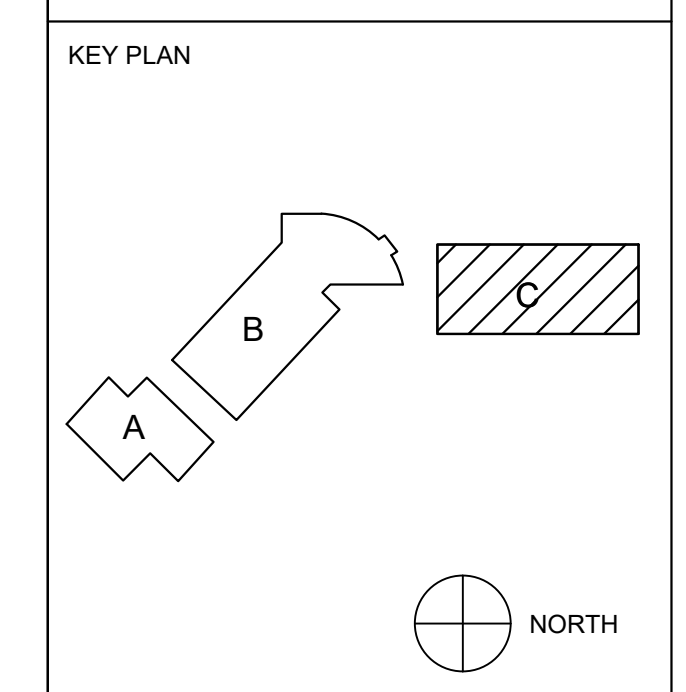
CONSULTANT:
LEFLER ENGINEERING, INC.
1651 Second Street
San Rafael, CA 94901
(415) 456-4220
(415) 456-1248 fax



117 PARK PLACE
POINT RICHMOND
CALIFORNIA 94901
(510) 236-7435
www.itres.com

PROJECT:
**HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL**

125 BAHIA WAY
SAN RAFAEL, CA. 94901



SHEET TITLE:
**MECHANICAL
AND PLUMBING
BUILDING C
ROOF PLAN**

PROJ. NO.	
PREPARATION AND REVIEW	
DRAWN BY:	
DESIGNER:	
PROJ. MGR:	
PEER REVIEW	
SHEET NUMBER:	

MP206

ADSA 403-A

2019 ENERGY CODE - CERTIFICATES OF COMPLIANCE CHECKLIST

PRESCRIPTIVE METHOD (For Performance Method, use Form DSA 403-B)

PURPOSE This checklist identifies the 2019 California Energy Code Certificates of Compliance to be submitted with the Plans as part of the plan review process for Prescriptive Compliance. Not all Certificates of Compliance on this checklist may be applicable to the submitted project.

INSTRUCTIONS Check the appropriate boxes for all required forms pertaining to the submittal. All required information and mandatory measures must be specified in the plans, and all copies of the Certificates of Compliance required for the Project must be submitted in PDF form and a copy of the Certificates of Compliance must be provided in the Plans. The Certificates of Compliance are dynamic and expand or collapse based on the project scope.

For all conditions building pursuing the Prescriptive Method, the following forms are required: Commissioning (CCR), Envelope (ENV), Mechanical (MCH), Indoor Lighting (LTI), Outdoor Lighting (LTO), Electrical Power Distribution (ELC), and Solar Ready (SR). Plumbing (PLB) is required for each water heater specified in the Project. NRCC-LTS-E is required if internally illuminated or externally illuminated signs are specified either indoors or outdoors in the Project. NRCC-PRC-E is required for Covered Process specified in the Project, which includes computer rooms, data centers, elevators, escalators and moving walkways, laboratories, enclosed parking garages, commercial kitchens, refrigerated warehouses, commercial refrigeration, compressed air systems, or process boilers.

For questions about required Certificates of Compliance and compliance with the California Energy Code contact the Energy Standards Hotline - 1 (800) 772-3300, Outside California, (916) 654-5106. For additional information see www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2019-building-energy-efficiency-1

Key: R = Report Required P = Copy of Form Required on Plans
Review will not commence until this checklist and all required Certificates of Compliance are submitted.
COMMISSIONING
ENVELOPE
MECHANICAL
INDOOR LIGHTING
OUTDOOR LIGHTING
SOLAR READY

2019 ENERGY CODE - CERTIFICATES OF COMPLIANCE CHECKLIST

ELECTRICAL POWER DISTRIBUTION
PLUMBING
SIGN LIGHTING
COVERED PROCESSES

As the Professional in General Responsible Charge, I have reviewed the Project Plans and affirm that the documentation submitted is in compliance with the requirements of the 2019 California Energy Code (Title 24, Part 6). The documents checked on pages 1 and 2 of this form are included in the project submittal. I further acknowledge that upon installation of equipment and material identified on compliance forms, I will ensure that the appropriate installation and acceptance tests are conducted and the associated forms completed, signed, and submitted to the owner, and that the completed construction complies with the 2019 California Energy Code Building Energy Efficiency Standards.

Signature: Trevor M. Leffler Date: 02/08/2021
Print Full Name: TREVOR M. LEFLER

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 1 of 11
Date Prepared: 2021-02-08

Table with columns: Equipment Name, System, Capacity, etc. Rows include Heating Air System, Cooling Air System, Mechanical Controls, etc.

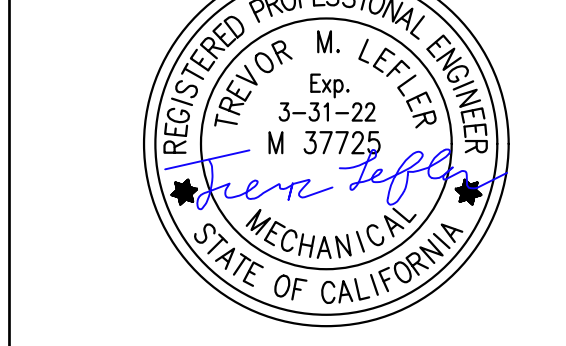
Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 2 of 11
Date Prepared: 2021-02-08

Table with columns: Equipment Name, System, Capacity, etc. Rows include Unitary AC/Condensers, etc.

REVISION DESCRIPTION INITIAL DATE

Table with columns: REVISION, DESCRIPTION, INITIAL, DATE. Includes rows for ISSUED FOR PROGRESS REVIEW, ISSUED FOR PLAN CHECK, ISSUED FOR PERMIT, ISSUED FOR BID, ISSUED FOR CONSTRUCTION.

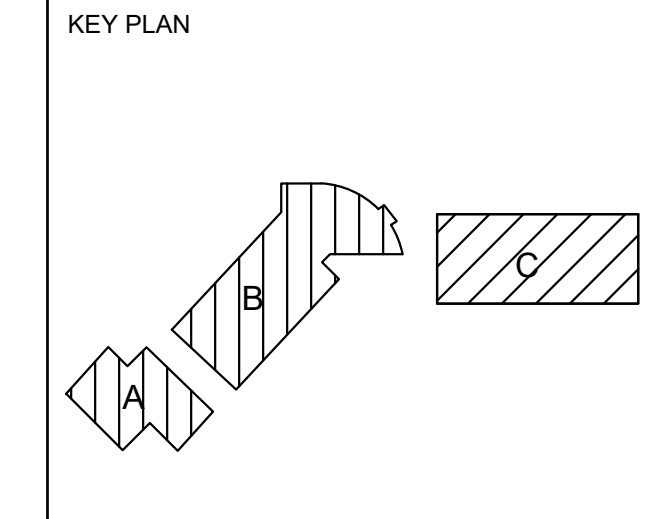


CONSULTANT: LEFLER ENGINEERING, INC. 1651 Second Street, San Rafael, CA 94901 (415) 456-4220 (415) 456-1248 fax



PROJECT: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY SAN RAFAEL, CA. 94901



SHEET TITLE: TITLE 24

PROJ. NO. PREPARATION AND REVIEW

DRAWN BY: LEFLER ENGINEERING, INC. 1651 SECOND STREET, SAN RAFAEL, CA 94901 (415) 456-4220

SHEET NUMBER: MP301

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 3 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Heating and Cooling Modes.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 4 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Mechanical Ventilation.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 5 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Terminal Box Controls.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 6 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Distribution (Ductwork and Piping).

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 7 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 8 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Fan Systems and Air Economizers.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 9 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Terminal Box Controls.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 10 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 11 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 12 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 13 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 14 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 15 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 16 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

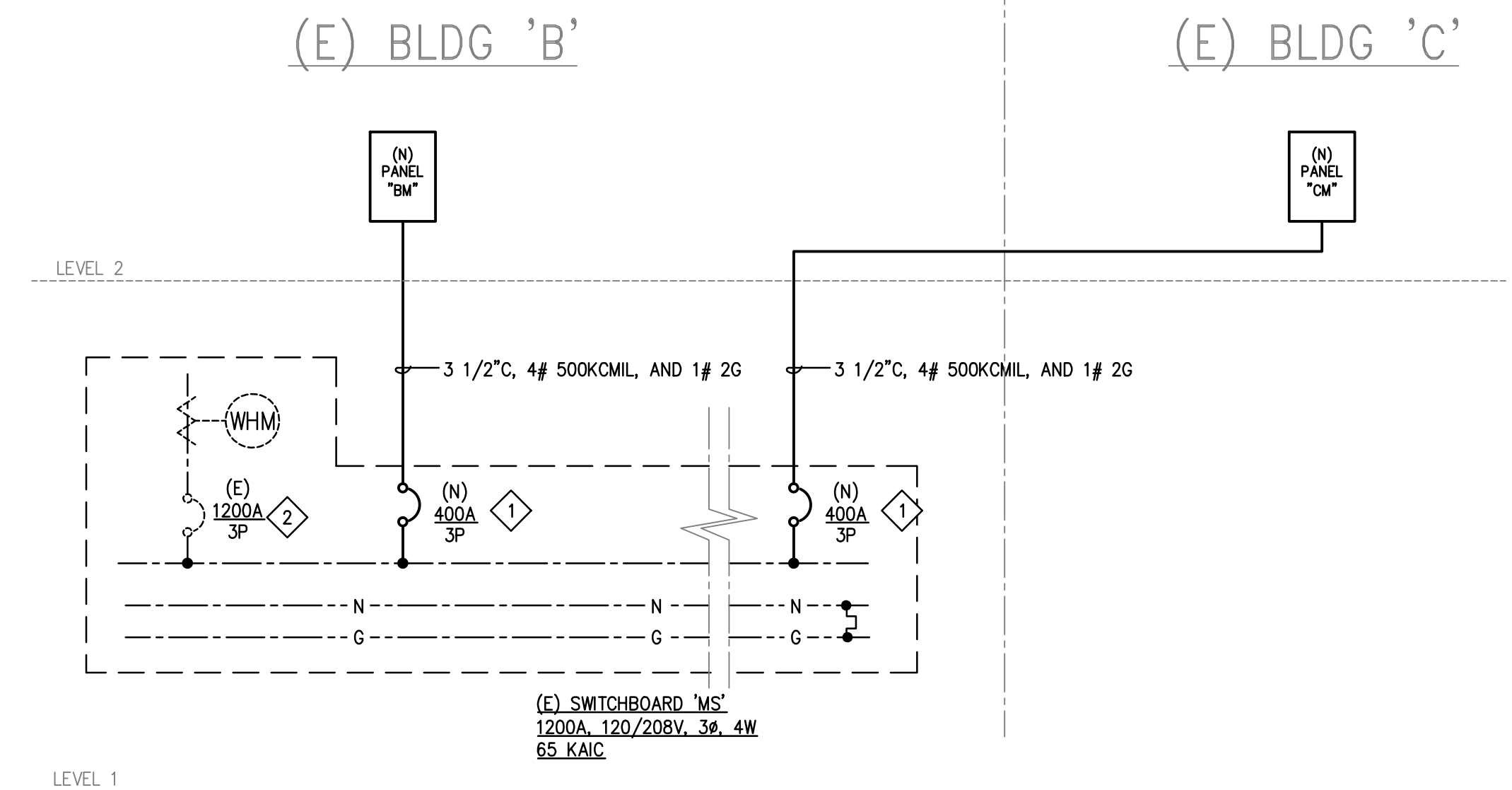
Mechanical Systems

CERTIFICATE OF COMPLIANCE
Project Name: HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
Project Address: 125 Bahia Way, San Rafael, CA 94901
Report Page: 17 of 11
Date Prepared: 2021-02-08

Table with columns: System Name, System Zoning, etc. Rows include AC-1, AC-2 for Cooling Towers.

PANEL BM												LEVEL 2 EE ROOM			
DESCRIPTION	LOAD (KVA)				MOT.	CB	CKT	SN	CKT	CB	LOAD (KVA)				DESCRIPTION
	LTG.	REC.	RES.	MOT.							LTG.	REC.	RES.	MOT.	
AC-1 ON ROOF				4.80	35/2	1	*	2	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	3	*	4	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	5	*	6	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	7	*	8	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	9	*	10	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	11	*	12	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	13	*	14	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	15	*	16	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	17	*	18	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	19	*	20	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	21	*	22	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	23	*	24	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	25	*	26	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	27	*	28	35/2				4.80	AC-1 ON ROOF	
SPARE					35/2	29	*	30	20/1					SPARE	
SPARE						31	*	32	20/1					SPARE	
SPARE						33	*	34	20/1					SPARE	
SPARE						35	*	36	30/1					SPARE	
SPARE						20/1	37	*	38	20/1				SPARE	
SPARE						20/1	39	*	40	20/1	0.40			RECEPT ON ROOF	
SPARE						20/1	41	*	42	20/1	0.40			RECEPT ON ROOF	
TOTAL											0.80			33.60	
VOLTS: 120/208V, 3ø, 4W		MTG: SURFACE								CONNECTED KVA: 68.00					
BUS: 400A		TYPE: NQ								CONNECTED AMPS: 188.89					
MAIN: 400A		KAIC: 42													

PANEL CM												LEVEL 2 EE ROOM			
DESCRIPTION	LOAD (KVA)				MOT.	CB	CKT	SN	CKT	CB	LOAD (KVA)				DESCRIPTION
	LTG.	REC.	RES.	MOT.							LTG.	REC.	RES.	MOT.	
AC-1 ON ROOF				4.80	35/2	1	*	2	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	3	*	4	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	5	*	6	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	7	*	8	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	9	*	10	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	11	*	12	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	13	*	14	35/2				4.80	AC-1 ON ROOF	
AC-1 ON ROOF				4.80	35/2	15	*	16	35/2				4.80	AC-1 ON ROOF	
AC-2 ON ROOF				3.83	35/2	17	*	18	35/2				4.80	AC-1 ON ROOF	
AC-2 ON ROOF						19	*	20	35/2				4.80	AC-1 ON ROOF	
SPARE					35/2	21	*	22	35/2				4.80	AC-1 ON ROOF	
SPARE						23	*	24	35/2				4.80	AC-1 ON ROOF	
SPARE						25	*	26	35/2				4.80	AC-1 ON ROOF	
SPARE						27	*	28	35/2				4.80	AC-1 ON ROOF	
SPARE						30/1	29	*	30	35/2			4.80	AC-1 ON ROOF	
SPARE						30/1	31	*	32	35/2			4.80	AC-1 ON ROOF	
SPARE						30/1	33	*	34	35/2				SPARE	
SPARE						30/1	35	*	36	35/2				SPARE	
SPARE						20/1	37	*	38	20/1				SPARE	
SPARE						20/1	39	*	40	20/1	0.40			RECEPT ON ROOF	
SPARE						20/1	41	*	42	20/1	0.40			RECEPT ON ROOF	
TOTAL											0.80			38.40	
VOLTS: 120/208V, 3ø, 4W		MTG: SURFACE								CONNECTED KVA: 62.23					
BUS: 400A		TYPE: NQ								CONNECTED AMPS: 172.86					
MAIN: 400A		KAIC: 42													



NOTE:

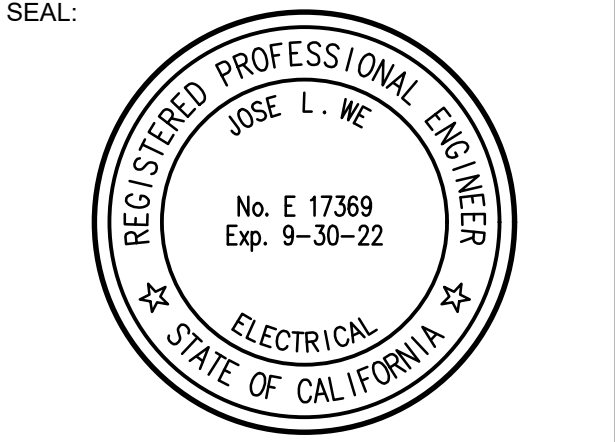
- 1 INSTALL NEW CIRCUIT BREAKER IN EXISTING SPACE. MATCH EXISTING TYPE AND KAIC RATING. PROVIDE ALL ACCESSORIES, HARDWARE AND KIT AS REQUIRED FOR A COMPLETE INSTALLATION.
- 2 EXISTING 1200A FULLY RATED CIRCUIT BREAKER WITH RMS310 LS. CONTRACTOR TO RETAIN SWITCHBOARD VENDOR, EATON, AS REQUIRED TO REMOVE AND REPLACE RATING PLUG TO SET THE TRIP RATING TO 1200A, #12NES1200T.

ELECTRICAL LOAD CALCS:		
A.	12-MONTH MAXIMUM HIGH CURRENT READING FROM PG 8.E.	194 KW
	ADD 25%	49.5 KW
		242.5 KW
B.	Bldg B - New Panel BM	68.0 KW
C.	Bldg C - New Panel CM	62.2 KW
D.	New Total Loads:	372.7 KW
E.	Total Amps: 120/208V 3-PH 4W	1035.4 AMPS
EXISTING 1200A SWITCHBOARD IS ADEQUATE.		

ELECTRICAL EXISTING PARTIAL ONE-LINE DIAGRAM NTS 1

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01-06-21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



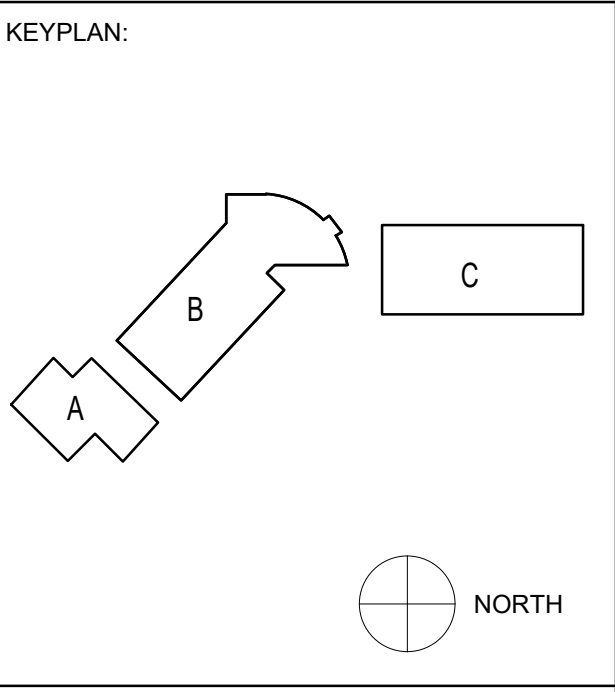
CONSULTANT:
WRM
 Electrical Consultants Incorporated
 3397 Mt. Diablo Blvd., Suite C
 Lafayette, CA 94549
 Tel: 925.385.0649
 20-059



ARCHITECTURE • PLANNING • ENGINEERING
 117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (910) 238-7435
 (FAX) 232-5325
 http://www.intres.com

PROJECT:
HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY
 SAN RAFAEL, CA. 94801

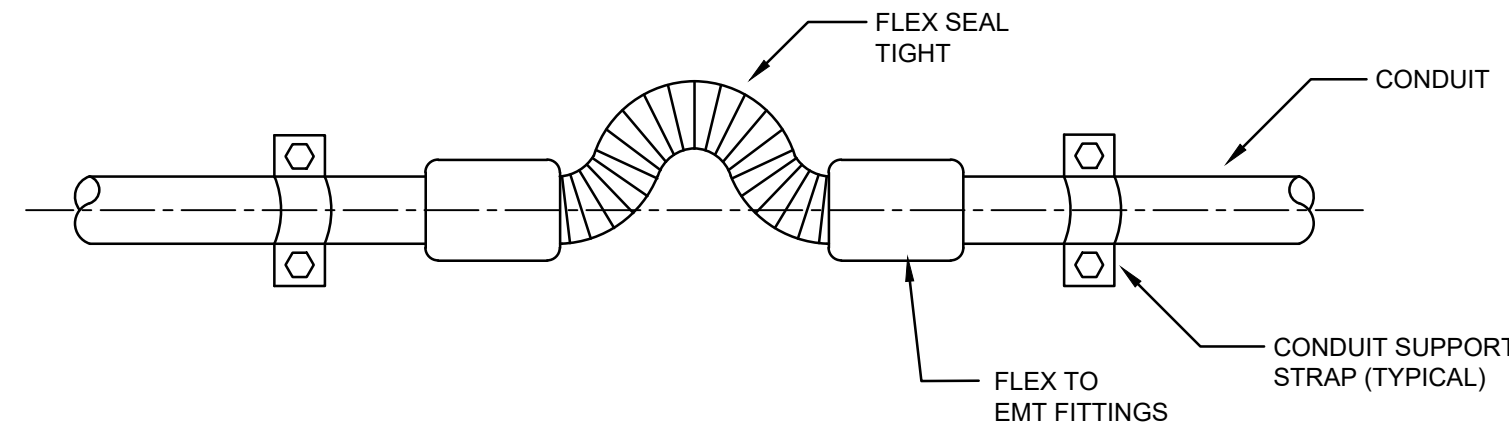


SHEET TITLE:
ELECTRICAL DIAGRAMS AND DETAILS

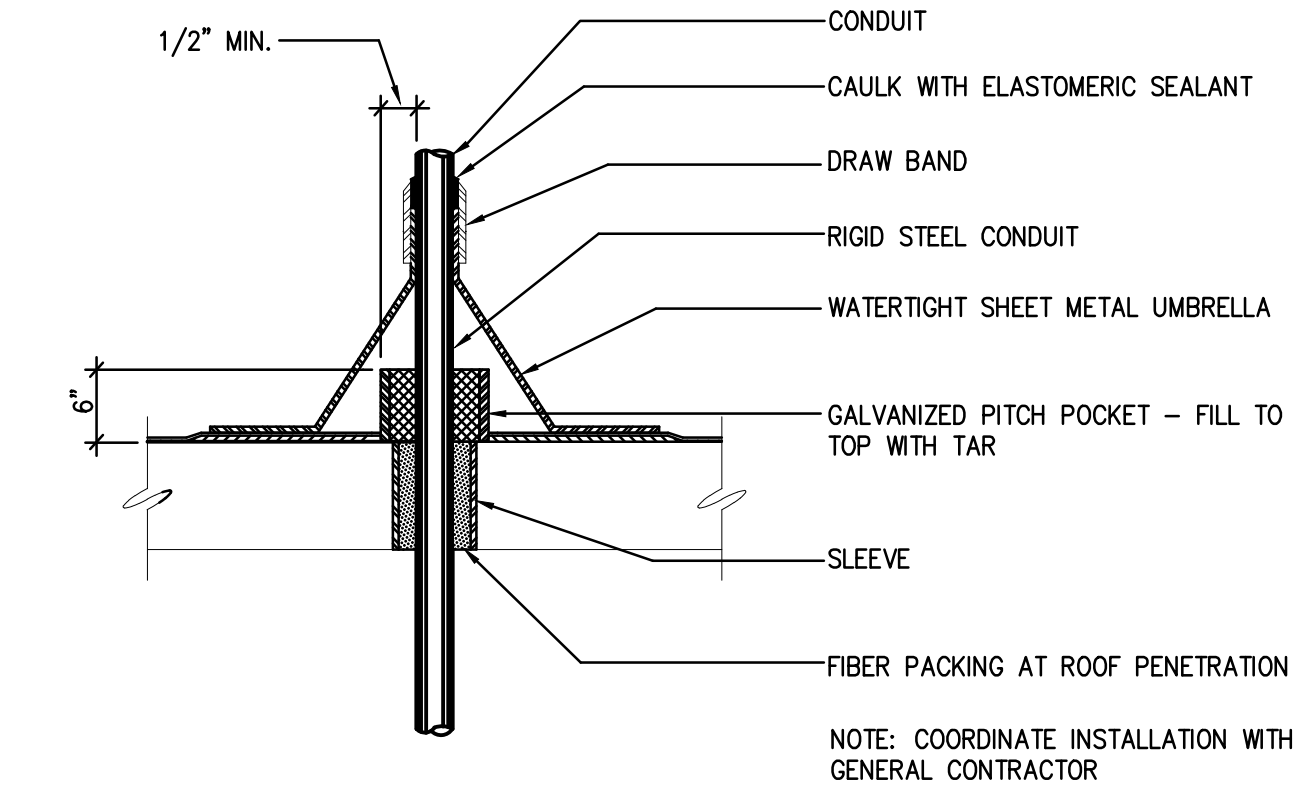
PROJ. NO. 2020-036-01
 PREPARATION AND REVIEW
 DRAWN BY: DM
 DESIGNER: JWE
 PROJ. MGR:
 PEER REVIEW: Checker
 SHEET NUMBER:

E002

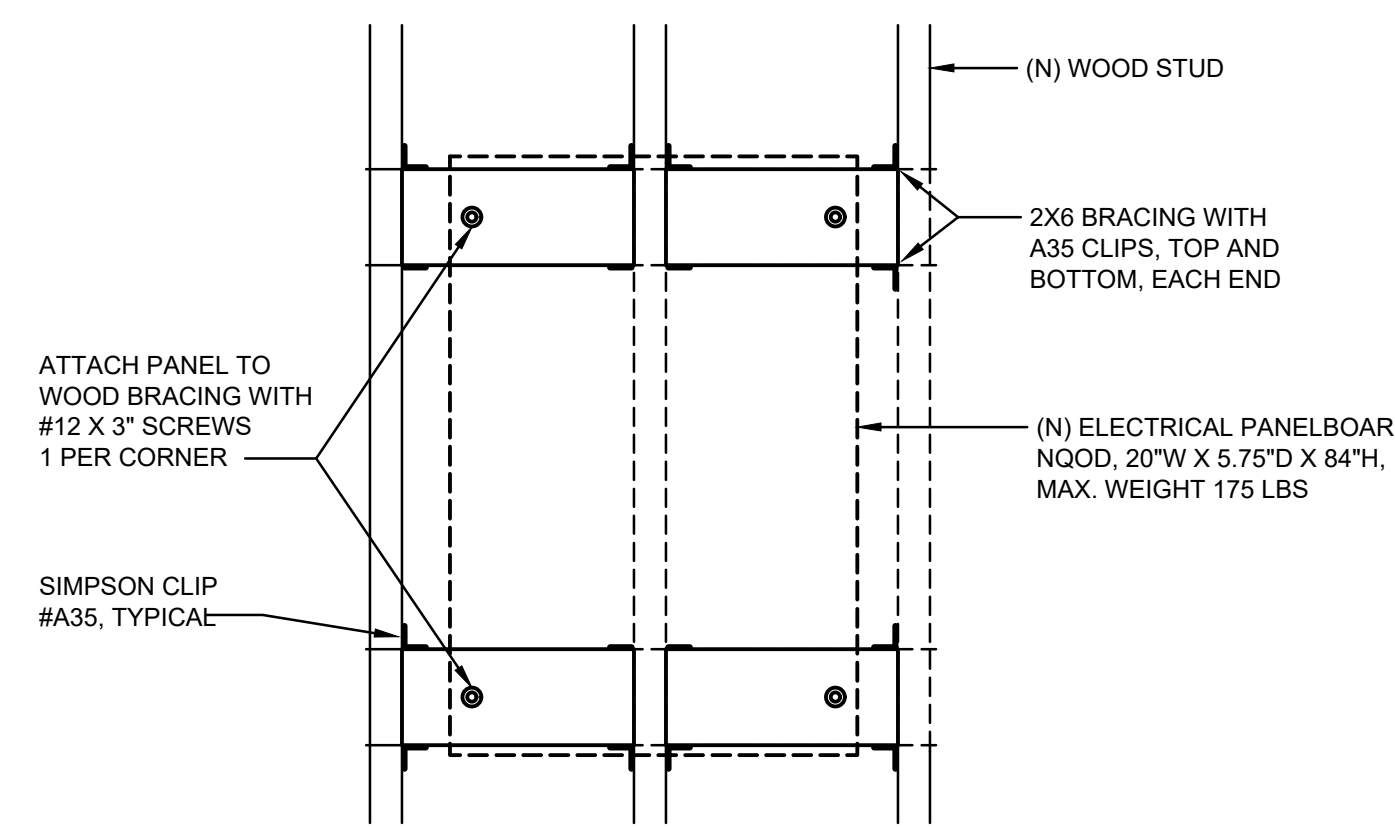




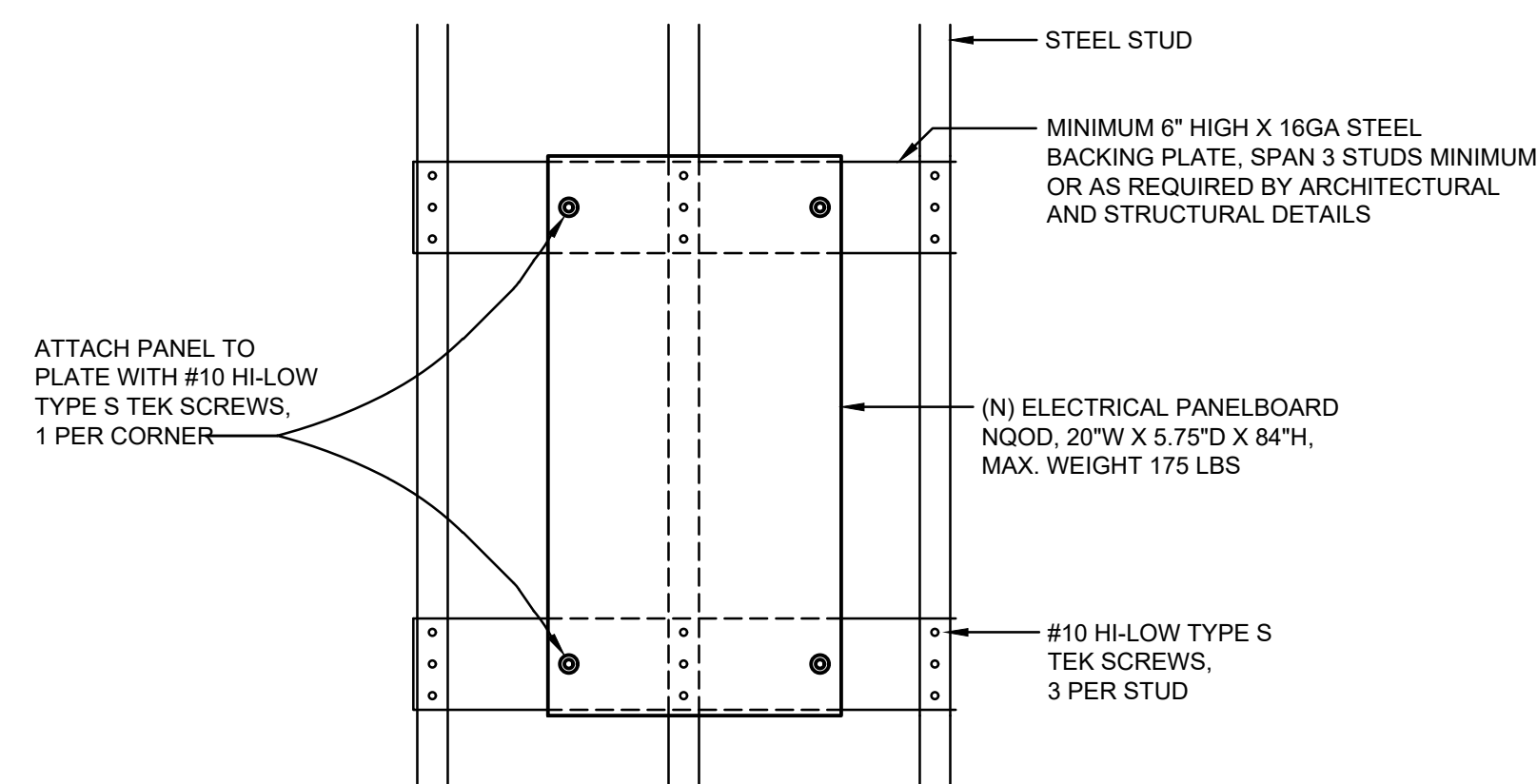
EXPOSED CONDUIT EXPANSION FITTING DETAIL - FLEX JOINT NTS 4



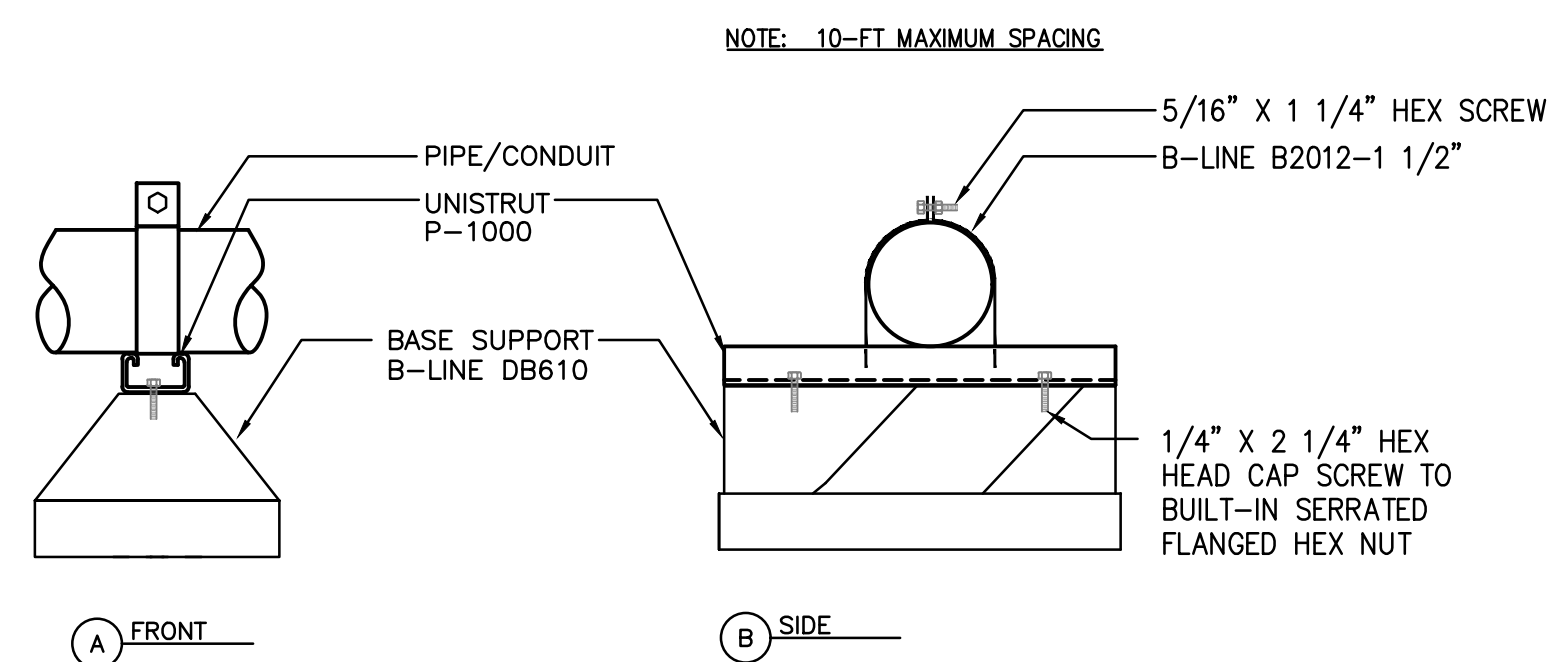
CONDUIT ROOF PENETRATION DETAIL NTS 1



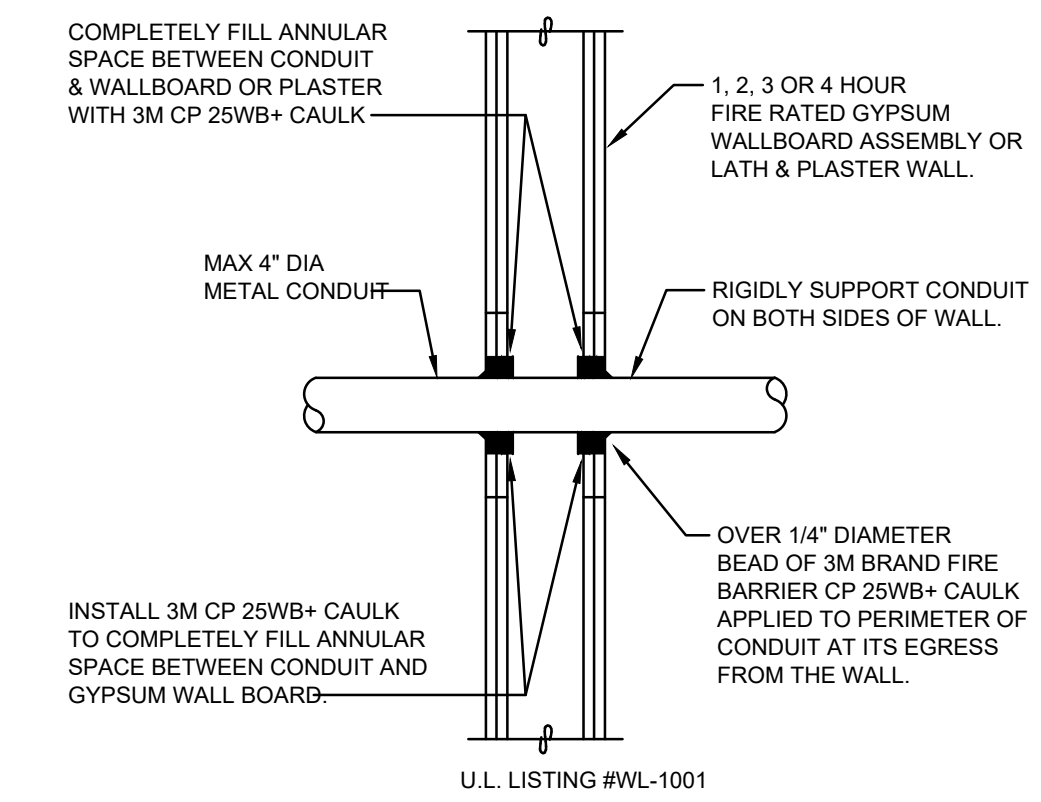
SURFACE PANELBOARD MOUNTING DETAIL - WOOD NTS 5



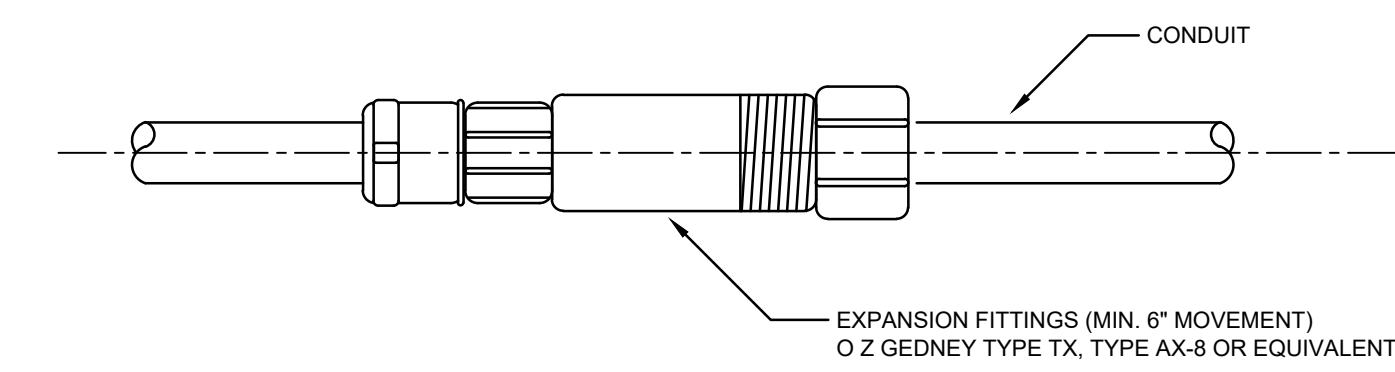
SURFACE PANELBOARD MOUNTING DETAIL - STEEL NTS 6



CONDUIT SUPPORT ON ROOF MOUNTING DETAIL NTS 7



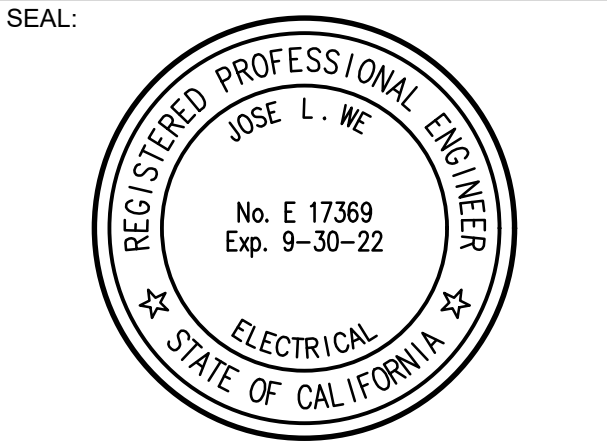
CONDUIT PENETRATION DETAIL - FIRE RATED WALL NTS 2



EXPOSED CONDUIT EXPANSION FITTING DETAIL - WALL NTS 3

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW	
ISSUED FOR PLAN CHECK	01-06-21
ISSUED FOR PERMIT	
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	

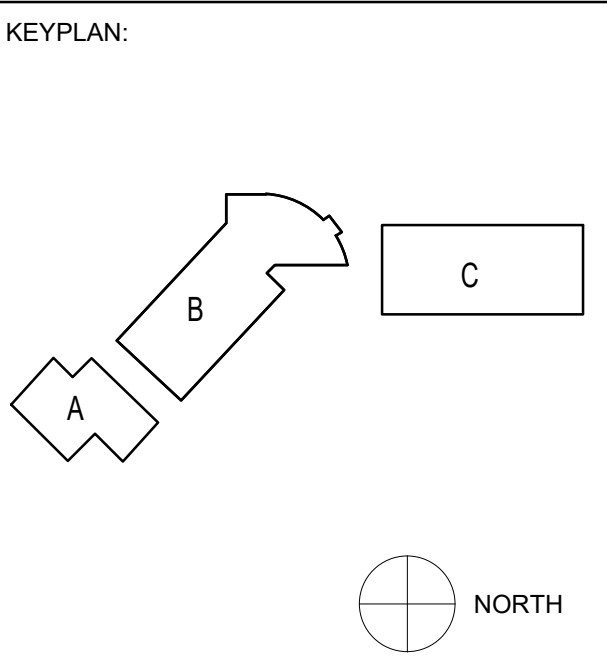


CONSULTANT:
WRM
 Electrical Consultants Incorporated
 3397 Mt. Diablo Blvd., Suite C
 Lafayette, CA 94549
 Tel: 925.385.0649
 20-059

INTERACTIVE RESOURCES
 architects + engineers
 ARCHITECTURE • PLANNING • ENGINEERING
 117 PARK PLACE
 POINT RICHMOND
 CALIFORNIA 94801
 (510) 236-7435
 (FAX) 232-5325
 http://www.intres.com

PROJECT:
HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

125 BAHIA WAY
 SAN RAFAEL, CA. 94801



SHEET TITLE:
ELECTRICAL DETAILS

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	DM
DESIGNER:	JWE
PROJ. MGR:	
PEER REVIEW:	Checker
SHEET NUMBER:	

E003



DEMOLITION NOTES

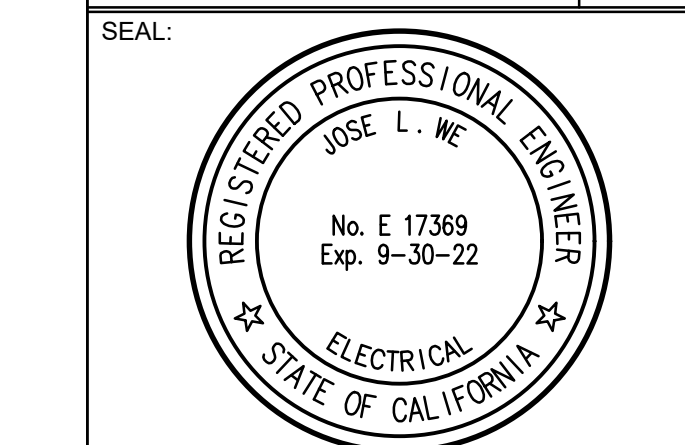
- ① EXISTING MOTORIZED DAMPER TO BE REMOVED AND RE-INSTALLED BY MECHANICAL. DISCONNECT ALL CONNECTIONS AND RE-CONNECT COMPLETE AFTER INSTALLATION.

SHEET NOTES

- ① CONNECT COMPLETE NEW MOTORIZED DAMPER TO EXISTING DAMPER CIRCUIT. SEE DEMOLITION NOTE 1 THIS SHEET.
- ② PROVIDE (2) NEW 400A/3P CIRCUIT BREAKERS. SEE ALSO DETAIL 1/E002.

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW	
ISSUED FOR PLAN CHECK	01-06-21
ISSUED FOR PERMIT	
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	



CONSULTANT:
WJWM
 Electrical Consultants Incorporated
 3397 Mt. Diablo Blvd., Suite C
 Lafayette, CA 94549
 Tel: 925.385.0649
 20-059

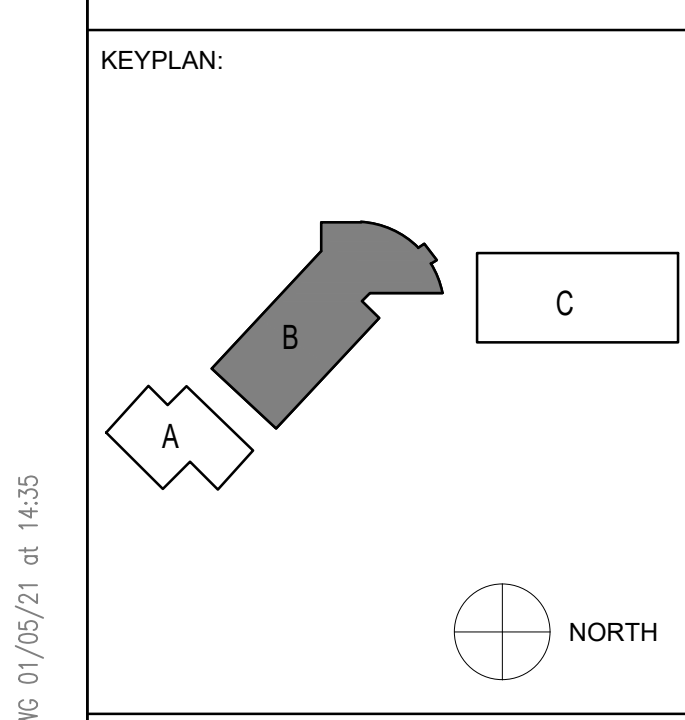
ir INTERACTIVE RESOURCES
 architects + engineers

ARCHITECTURE • PLANNING • ENGINEERING

117 PARK PLACE
 POINT RICHMOND, CALIFORNIA 94801
 (510) 236-7435
 (FAX) 232-5325
 http://www.intres.com

PROJECT:
HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL

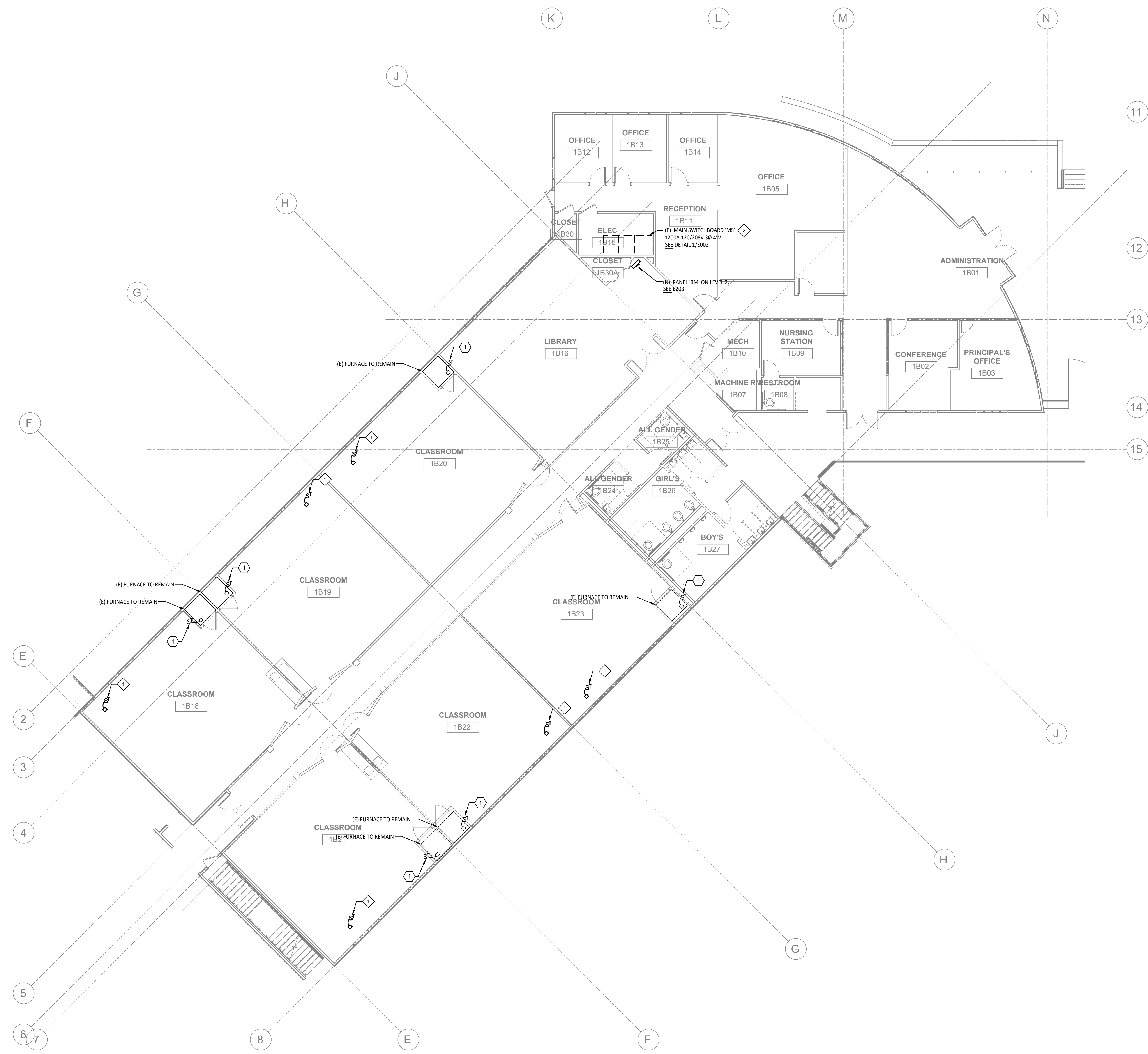
125 BAHIA WAY
 SAN RAFAEL, CA. 94801



SHEET TITLE:
ELECTRICAL POWER PLAN BUILDING B LEVEL 1

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	DM
DESIGNER:	JWE
PROJ. MGR:	
PEER REVIEW:	Checker
SHEET NUMBER:	

E201



01/06/21 3:45:00 PM C:\USERS\JAWM\WORK\CONSULTING\PROJECTS\2020\20-036\BAHIA VISTA ES HVAC\20059 E201.DWG

FILE: C:\Users\Jawm\Work\Consulting\Projects\2020\20-036\Bahia Vista ES HVAC\20059 E201.dwg:DWG: 01/06/21 at 14:35



DEMOLITION NOTES

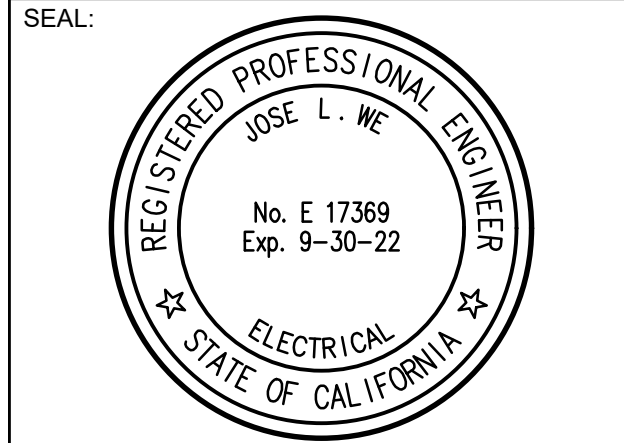
① EXISTING MOTORIZED DAMPER TO BE REMOVED AND RE-INSTALLED BY MECHANICAL. DISCONNECT ALL CONNECTIONS AND RE-CONNECT COMPLETE AFTER INSTALLATION.

REVISION	DESCRIPTION	INITIAL	DATE

SHEET NOTES

◇ CONNECT COMPLETE NEW MOTORIZED DAMPER TO EXISTING DAMPER CIRCUIT. SEE DEMOLITION NOTE 1 THIS SHEET.

ISSUED FOR PROGRESS REVIEW	
ISSUED FOR PLAN CHECK	01-06-21
ISSUED FOR PERMIT	
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	



CONSULTANT:

WJWE

Electrical Consultants Incorporated
3397 Mt. Diablo Blvd., Suite C
Lafayette, CA 94549
Tel: 925.385.0649
20-059

ir INTERACTIVE RESOURCES
architects + engineers

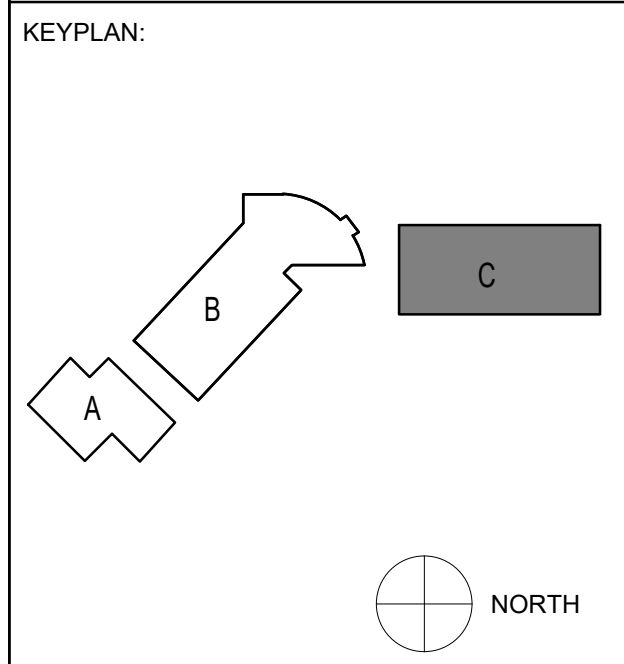
ARCHITECTURE • PLANNING • ENGINEERING

117 PARK PLACE
POINT RICHMOND,
CALIFORNIA 94801
(510) 236-7435
(FAX) 232-5325
http://www.intres.com

PROJECT:

**HVAC UPGRADE
AT BAHIA VISTA
ELEMENTARY
SCHOOL**

125 BAHIA WAY
SAN RAFAEL, CA. 94801

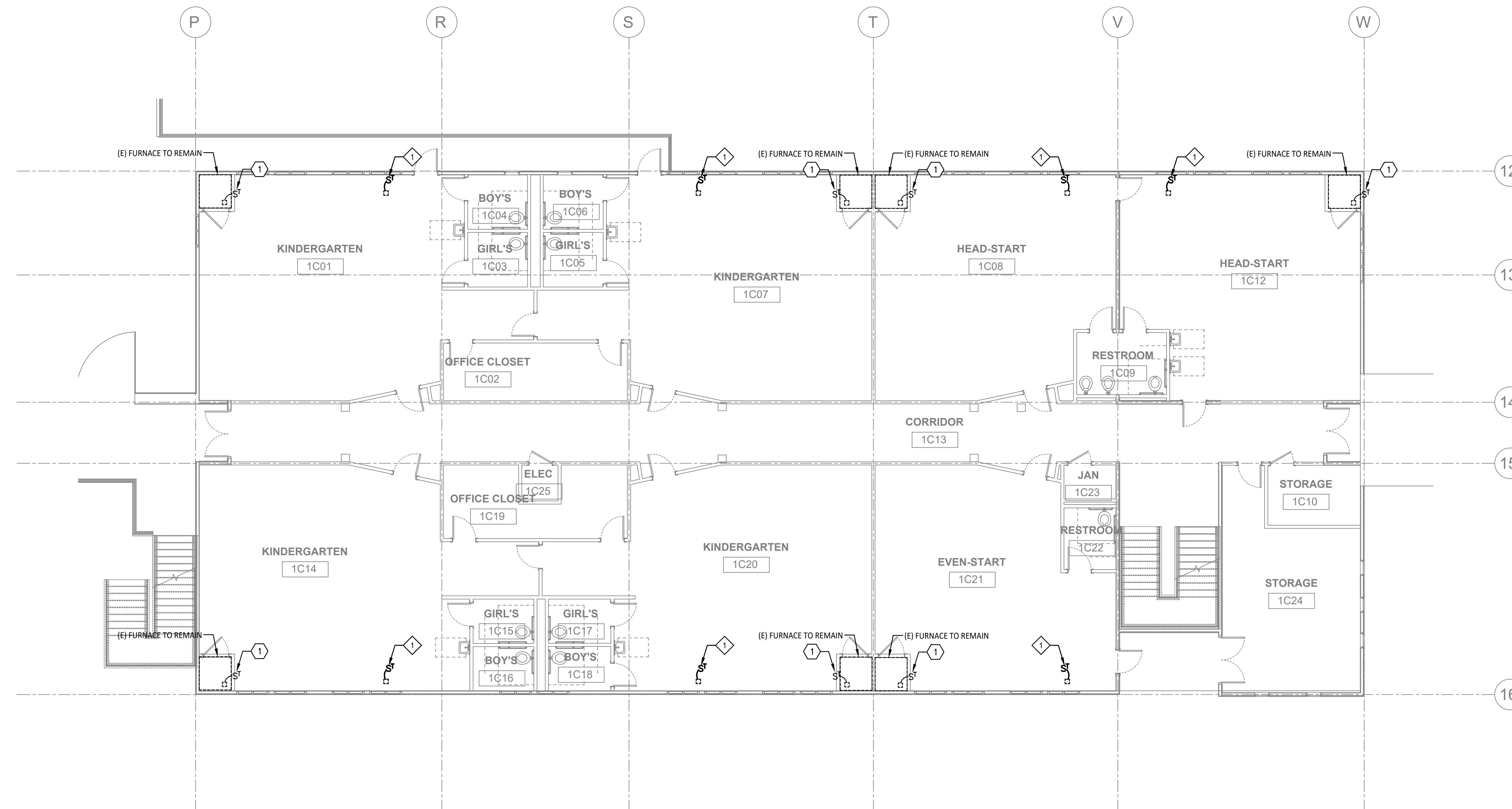


SHEET TITLE:

**ELECTRICAL
POWER PLAN
BUILDING C
LEVEL 1**

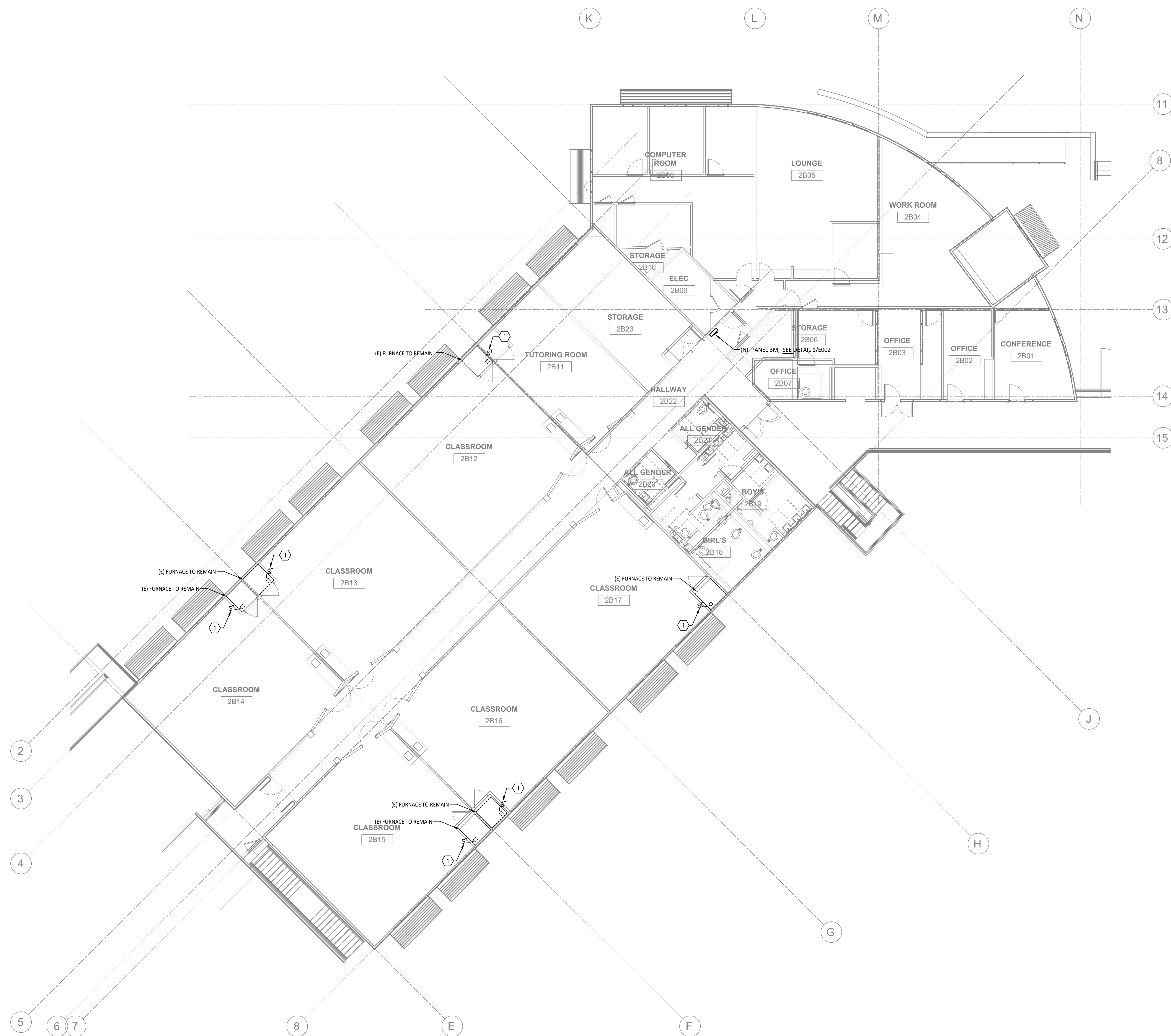
PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	DM
DESIGNER:	JWE
PROJ. MGR:	
PEER REVIEW	Checker
SHEET NUMBER:	

E202



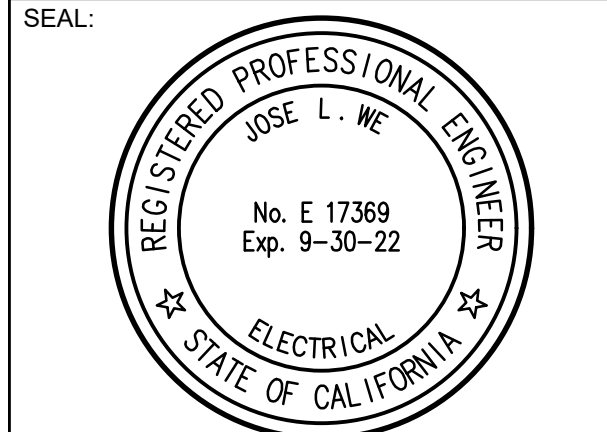
DEMOLITION NOTES

① EXISTING MOTORIZED DAMPER TO BE REMOVED AND RE-INSTALLED BY MECHANICAL. DISCONNECT ALL CONNECTIONS AND RE-CONNECT COMPLETE AFTER INSTALLATION.



REVISION	DESCRIPTION	INITIAL	DATE

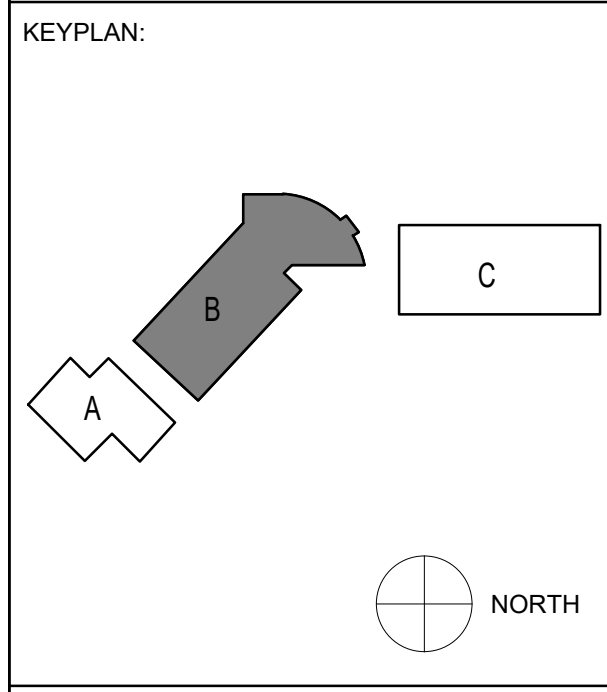
ISSUED FOR PROGRESS REVIEW
 ISSUED FOR PLAN CHECK 01-06-21
 ISSUED FOR PERMIT
 ISSUED FOR BID
 ISSUED FOR CONSTRUCTION



CONSULTANT:
WJWM
 Electrical Consultants Incorporated
 3397 Mt. Diablo Blvd., Suite C
 Lafayette, CA 94549
 Tel: 925.385.0649
 20-059

ir INTERACTIVE RESOURCES
 architects + engineers
 ARCHITECTURE • PLANNING • ENGINEERING
 117 PARK PLACE
 POINT RICHMOND, CALIFORNIA 94801
 (910) 236-7435
 (FAX) 232-5325
 http://www.intres.com

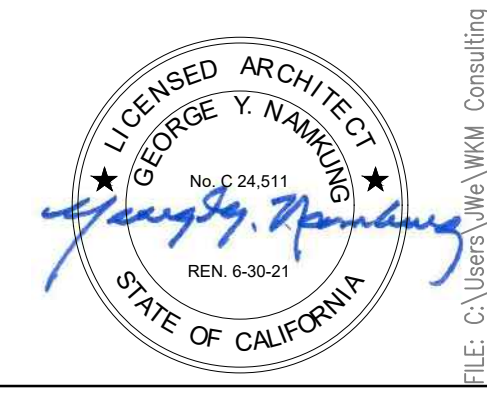
PROJECT:
HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
 125 BAHIA WAY
 SAN RAFAEL, CA. 94801



SHEET TITLE:
ELECTRICAL POWER PLAN BUILDING B LEVEL 2

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	DM
DESIGNER:	JWE
PROJ. MGR:	
PEER REVIEW:	Checker
SHEET NUMBER:	

E203



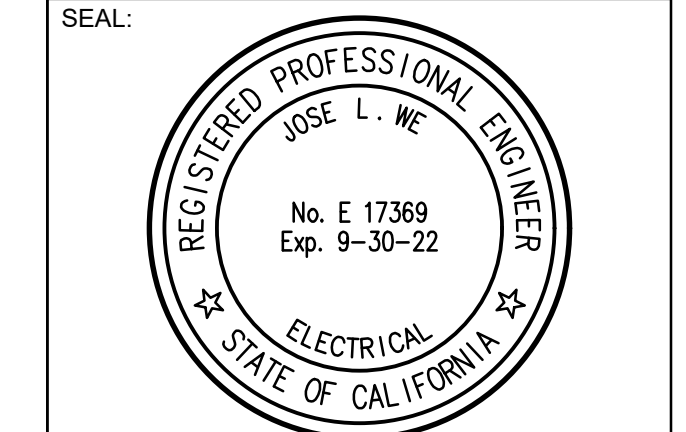
01/06/21 3:48:10 PM C:\USERS\JAWM\WORK\CONSULTING\PROJECTS\2020\20-036\BAHIA VISTA ES HVAC\20059 E203.DWG

FILE: C:\Users\Jawm\Work\Consulting\Projects\2020\20-036\Bahia Vista ES HVAC\20059 E203.dwg;PLOT: 01/06/21 at 14:55

DEMOLITION NOTES

1 EXISTING MOTORIZED DAMPER TO BE REMOVED AND RE-INSTALLED BY MECHANICAL. DISCONNECT ALL CONNECTIONS AND RE-CONNECT COMPLETE AFTER INSTALLATION.

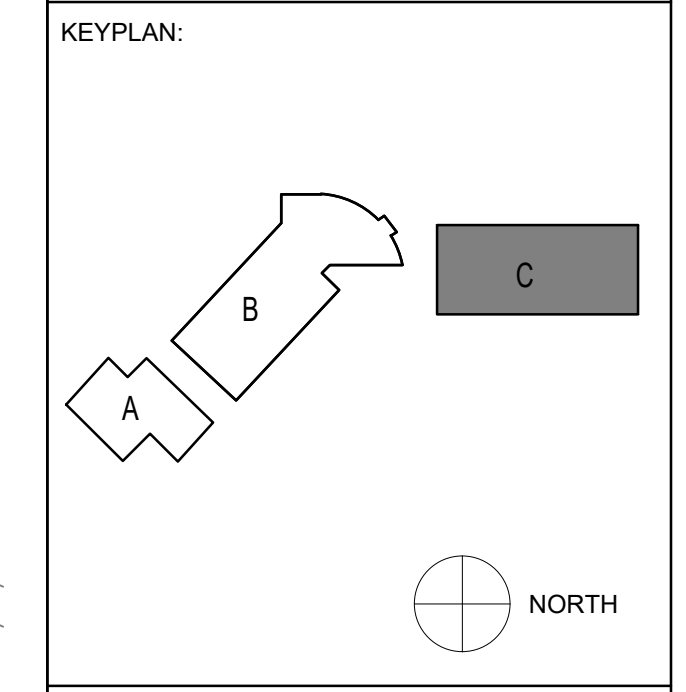
REVISION	DESCRIPTION	INITIAL	DATE



CONSULTANT:
WKM
 Electrical Consultants Incorporated
 3397 Mt. Diablo Blvd., Suite C
 Lafayette, CA 94549
 Tel: 925.385.0649
 20-059

ir INTERACTIVE RESOURCES
 architects + engineers
 ARCHITECTURE • PLANNING • ENGINEERING
 117 PARK PLACE
 POINT RICHMOND, CALIFORNIA 94801
 (510) 236-7435
 (FAX) 232-5325
 http://www.intres.com

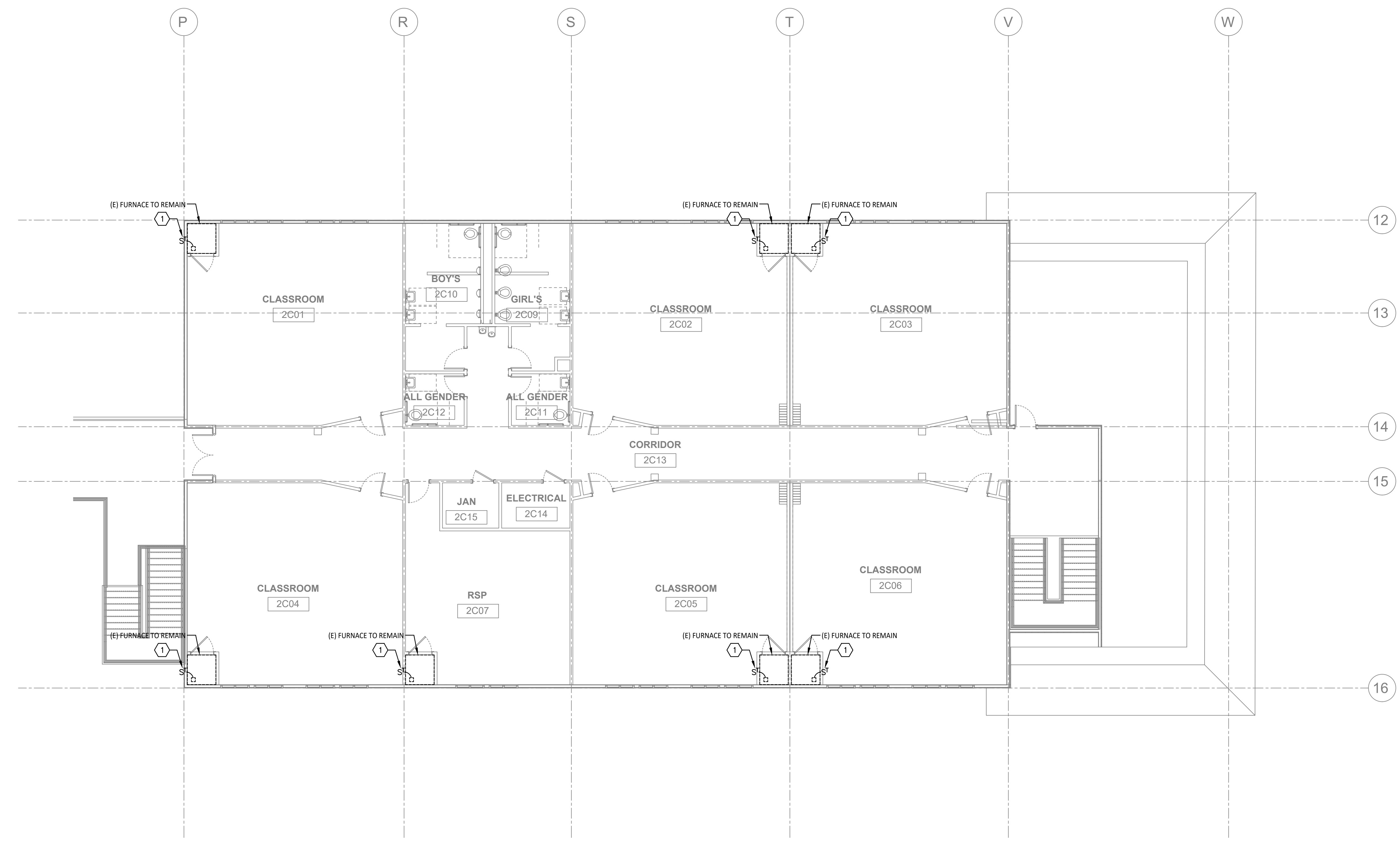
PROJECT:
HVAC UPGRADE AT BAHIA VISTA ELEMENTARY SCHOOL
 125 BAHIA WAY
 SAN RAFAEL, CA. 94801



SHEET TITLE:
**ELECTRICAL POWER PLAN
 BUILDING C
 LEVEL 2**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	DM
DESIGNER:	JWE
PROJ. MGR:	
PEER REVIEW	Checker
SHEET NUMBER:	

E204

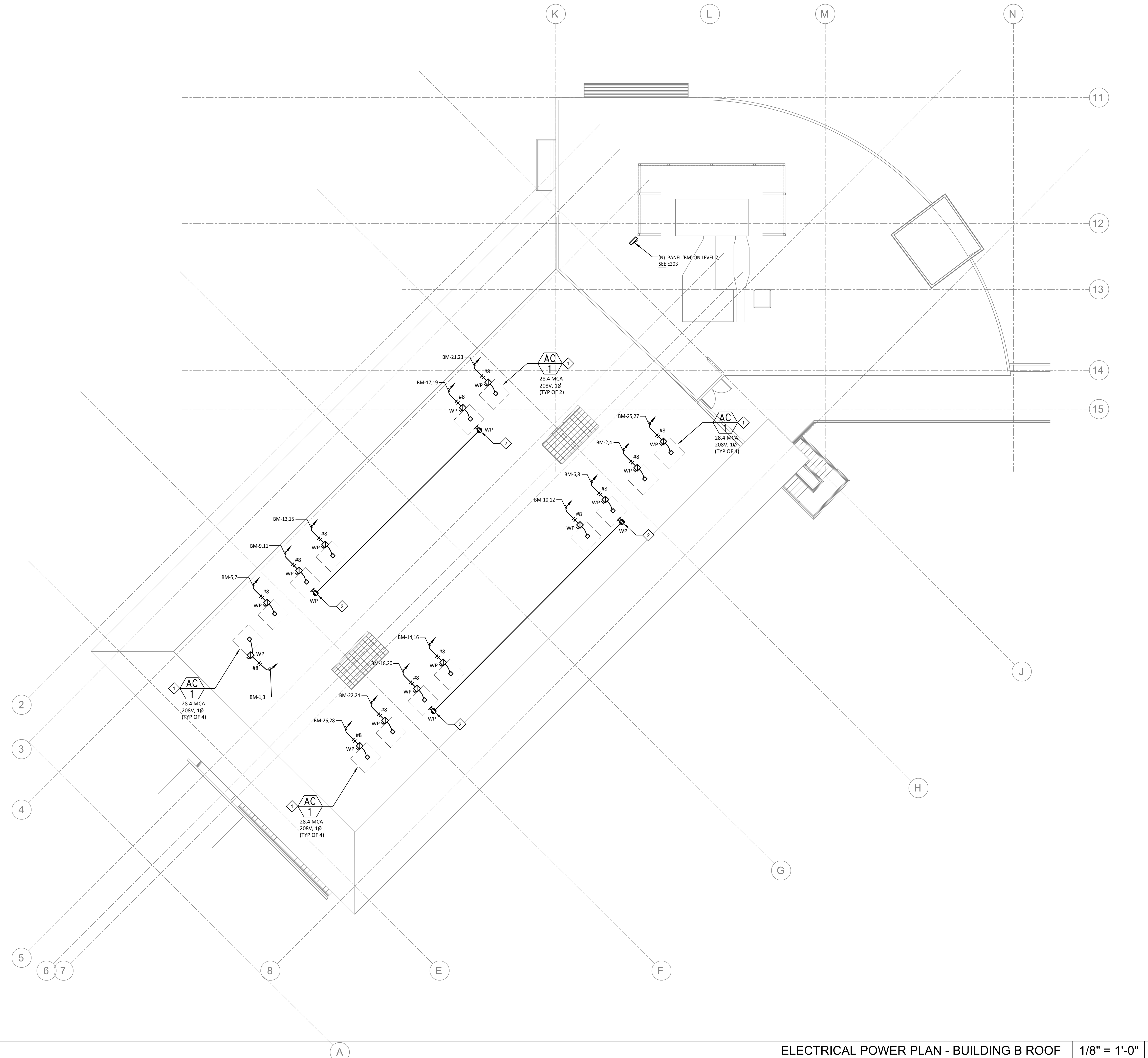


01/22/21 9:25:18 AM C:\USERS\JAMAR\WKM\CONSULTING\PROJECTS\2020\20-036-01\BAHIA VISTA ES HVAC\2020 E204.DWG

FILE: C:\Users\Jwe\OneDrive\Documents\Projects\2020\20-036-01\BAHIA VISTA ES HVAC\2020 E204.dwg 01/15/20 at 10:39



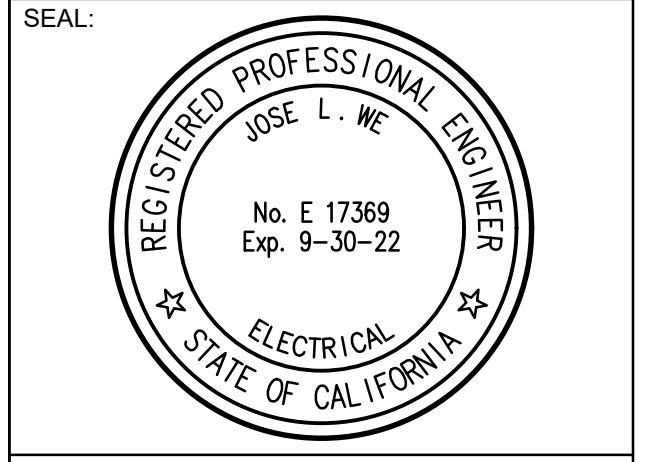
01/06/21 3:48:18 PM C:\USERS\JAWAR\My Documents\Projects\2020\20-059 Bahia Vista ES HVAC\20059 E205.DWG



SHEET NOTES

- 1 PROVIDE 3/4" 2 #8 PLUS GROUND TO PANEL BM ON SECOND FLOOR. SEE E203.
- 2 PROVIDE 3/4" 2 #12 PLUS GROUND TO PANEL BM ON SECOND FLOOR. SEE E2.03.

REVISION	DESCRIPTION	INITIAL	DATE



CONSULTANT:

WORM

Electrical Consultants Incorporated
 3397 Mt. Diablo Blvd., Suite C
 Lafayette, CA 94549
 Tel: 925.385.0649
 20-059

INTERACTIVE RESOURCES
 architects + engineers

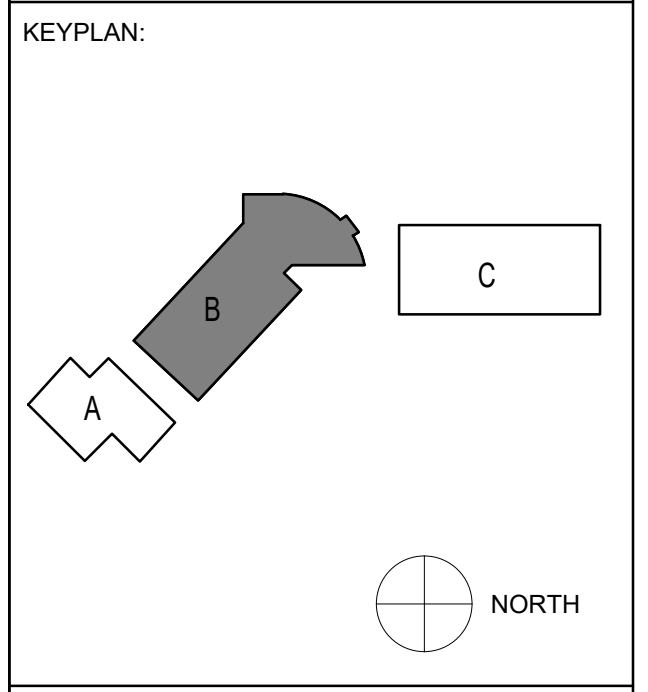
ARCHITECTURE • PLANNING • ENGINEERING

117 PARK PLACE
 POINT RICHMOND,
 CALIFORNIA 94801
 (510) 236-7435
 (FAX) 232-5325
 http://www.intres.com

PROJECT:

**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94801



SHEET TITLE:

**ELECTRICAL
 POWER PLAN
 BUILDING B
 ROOF**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	DM
DESIGNER:	JWE
PROJ. MGR:	
PEER REVIEW	Checker
SHEET NUMBER:	

E205



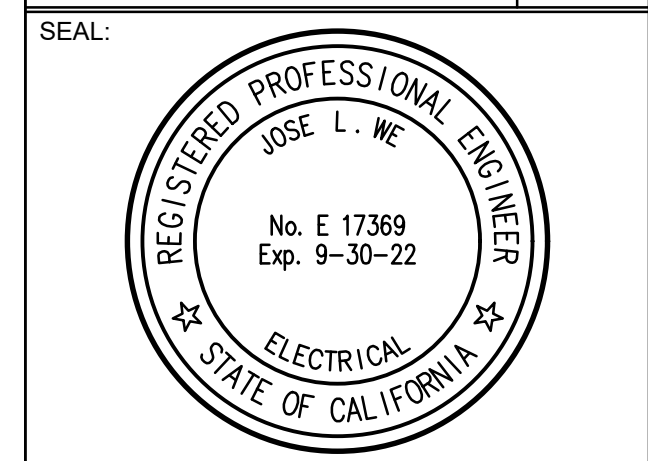
FILE: C:\Users\JAWAR\My Documents\Projects\2020\20-059 Bahia Vista ES HVAC\20059 E205.dwg; PLOT: 01/06/21 at 1:14:34

SHEET NOTES

- 1 PROVIDE 3/4" 2 #8 PLUS GROUND TO PANEL CM ON SECOND FLOOR. SEE E203.
- 2 PROVIDE 3/4" 2 #12 PLUS GROUND TO PANEL CM ON SECOND FLOOR. SEE E2.03.

REVISION	DESCRIPTION	INITIAL	DATE

ISSUED FOR PROGRESS REVIEW	
ISSUED FOR PLAN CHECK	01-06-21
ISSUED FOR PERMIT	
ISSUED FOR BID	
ISSUED FOR CONSTRUCTION	



CONSULTANT:

WJWM
 Electrical Consultants Incorporated
 3397 Mt. Diablo Blvd., Suite C
 Lafayette, CA 94549
 Tel: 925.385.0649
 20-059

ir INTERACTIVE RESOURCES
 architects + engineers

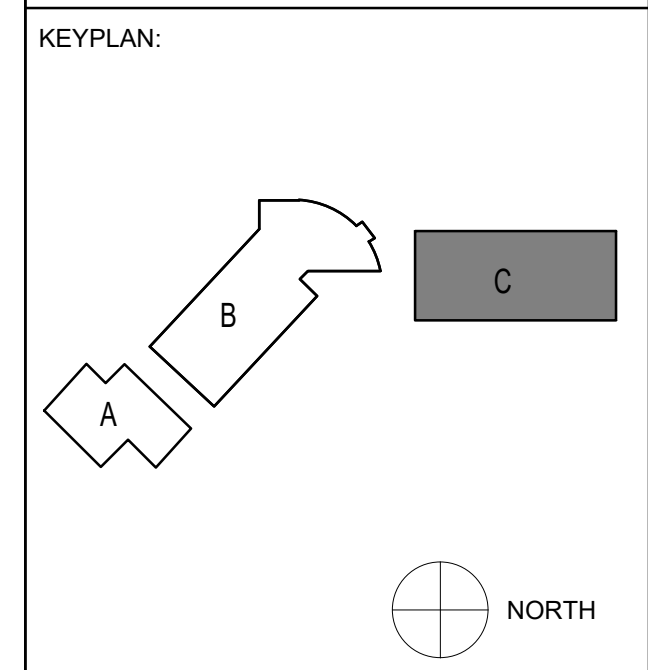
ARCHITECTURE • PLANNING • ENGINEERING

117 PARK PLACE
 POINT RICHMOND,
 CALIFORNIA 94801
 (510) 236-7435
 (FAX) 232-5325
 http://www.intres.com

PROJECT:

**HVAC UPGRADE
 AT BAHIA VISTA
 ELEMENTARY
 SCHOOL**

125 BAHIA WAY
 SAN RAFAEL, CA. 94801



SHEET TITLE:

**ELECTRICAL
 POWER PLAN
 BUILDING C
 ROOF**

PROJ. NO.	2020-036-01
PREPARATION AND REVIEW	
DRAWN BY:	DM
DESIGNER:	JWE
PROJ. MGR:	
PEER REVIEW	Checker
SHEET NUMBER:	

E206

