

PROJECT NUMBER: U0E-23086 PROJECT NAME: SBDO Fire Station #305

PROJECT LOCATION: Hesperia, CA COUNTY: San Bernardino CUSTOMER: FCP, Inc. Ventura, CA

### GENERAL NOTES

 S. MITTENAS
 ARTHUR SECONOMO

 IMBRICHARS, STRIT, RATE
 680 / 652 / 4811
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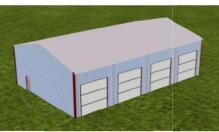
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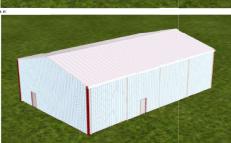
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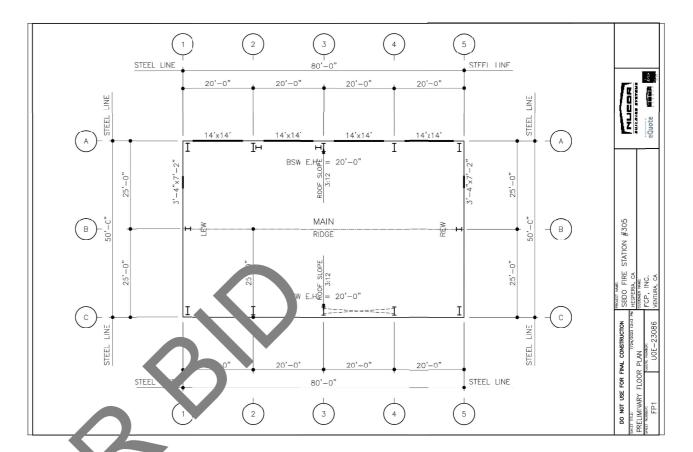
  6) IF JOSTS ME INCLIDED WITH THIS PROJECT, THEY ME SUPPLED AS A PART OF THE SYSTEMS DISMEDIED METAL BUILDING AND ARE FARRICATED IN ACCORDANCE WITH THE REQUIREDMENTS OF SECTION 1928/756 OF OSHA SWETY SYMMAROS FOR STEEL DEGETION, DATED JANUARY 18, 2001.

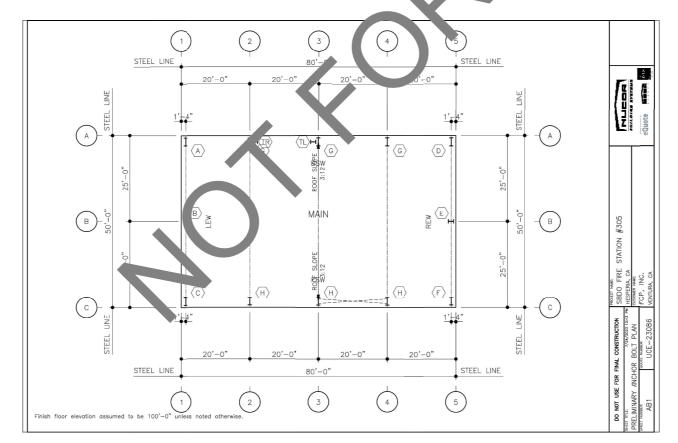






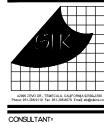
NOTES:
1) COLUMNAL DUD LOADS, UNLESS ORIENNES MOTES, ARE ASSAURD TO BE
UNDERSEAST DESTRUCTURES STANDARD STREET, LOADING, BACK
HOUSE DESTRUCTURES DESTRUCTURES DE POLICES, OR F BONDOUR, MEMBERS ARE
LOADED SERVINONET MOTE DANS ORIEN. 2) THE DESIGN OF STRUCTURAL MAJERIES SUPPORTING GRAVITY LONG IS CONTROLLED BY THE WORE CRITICAL SPECIFIC OF BOY LINE LONG OR ROOF SHOW LONG, AS OUTDRANKED BY THE APPLICABLE COOL.





# NOTES

NOTES
THE DRAWINGS & NOTES SHOWN ON THIS SHEET IS FOR INFORMATION & BIDDING PURPOSE ONLY, FINAL DESIGN & ENGINEERING/SHOP DRAWING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, WET STAMPED BY A REGISTERED CALIFORNIA ENGINEER, GENERAL CONTRACTOR TO SLEMIT ENGINEERING/SHOP DRAWINGS AS A DEFERRED SUBMITTAL.



PROJECT ADMINISTERED BY: SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

# PROJECT NAME:

FIRE STATION 305 PREFABRICATED METAL STORAGE BUILDING

PROJECT # 10.10.1200

8331 CALIENTE ROAD HESPERIA, CA 92344

ISSUE INFO	DRMATION:
DATE:	INFORMATION
02-29-24	PFM lst PC
04-24-24	BID SET
<u> </u>	

# SHEET INFORMATION:

STK PROJECT NO.: 374-164-22 SCALE: AS NOTED DATE: PLOT DATE: FEBRUARY 2024 DRAWING NAME

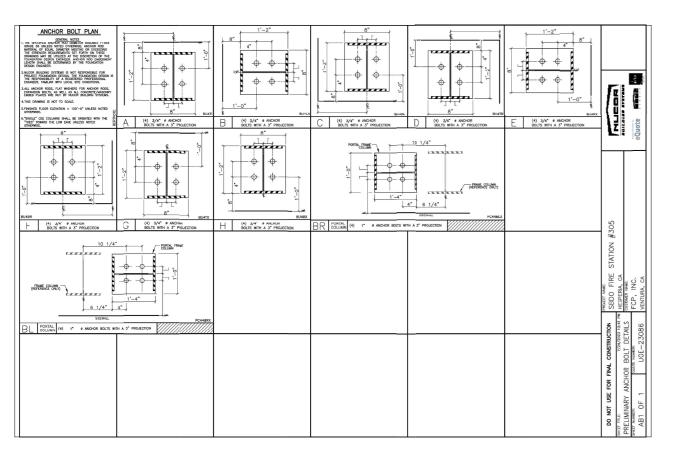


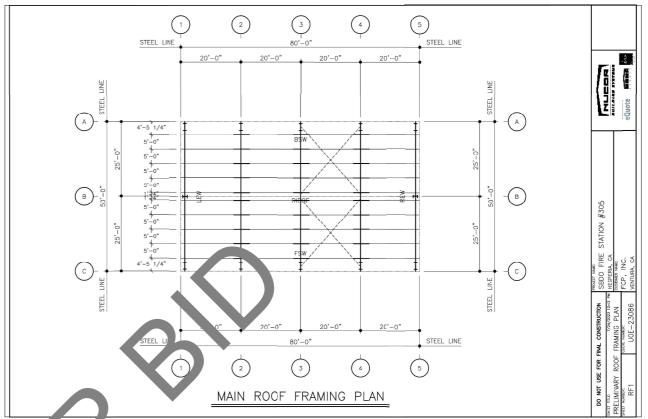
SHEET TITLE:

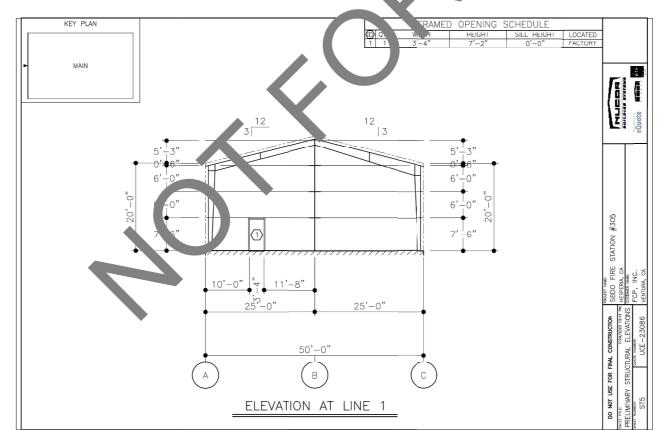
PREFABRICATED METAL BUILDING

SHEET NO.

A4.0







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PROJECT # 10.10.1200

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02-29-24	PFM lst PC
04-24-24	BID SET
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# SHEET INFORMATION:

STK PROJECT NO.: 374-164-22 SCALE: DATE: PLOT DATE: AS NOTED FEBRUARY 2024

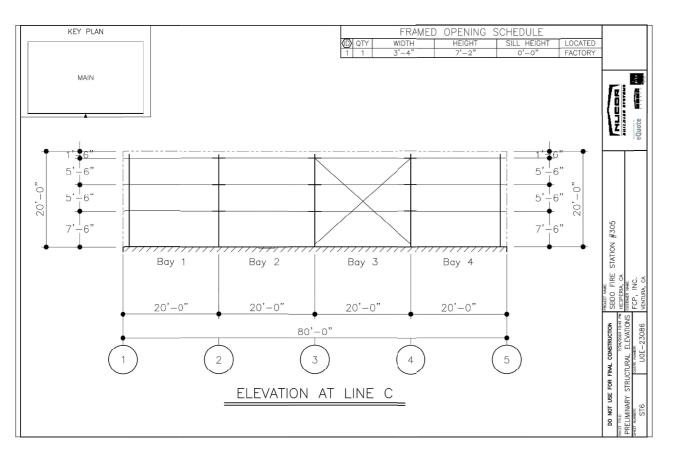


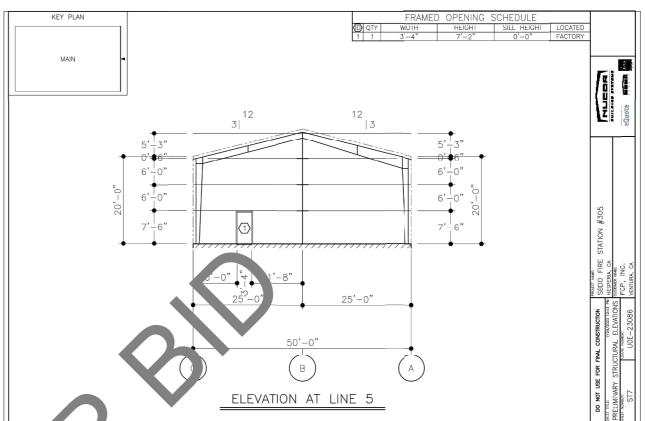
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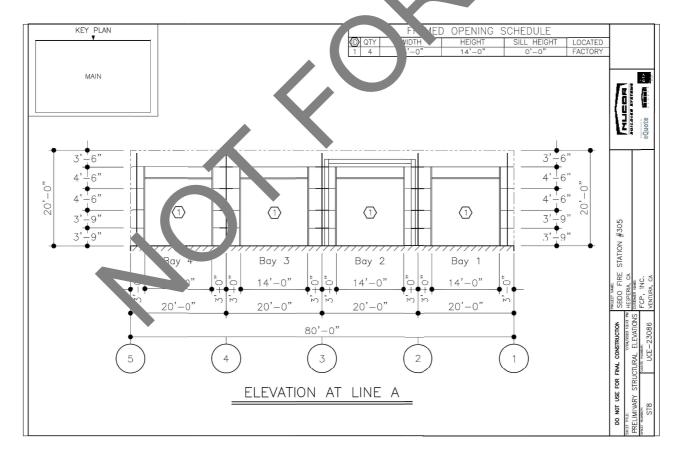
PREFABRICATED METAL BUILDING

SHEET NO.

A4.1







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385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

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PROJECT # 10.10,1200

ISSUE INFORMATION:  DATE: INFORMATION:  02-29-24	l ——	
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<u> </u>	DATE:	INFORMATION
04-24-24 BID SET	02-29-24	PFM lst PC
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# SHEET INFORMATION:

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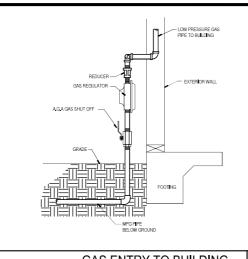


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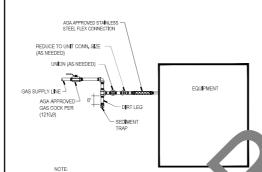
PREFABRICATED METAL BUILDING

SHEET NO.

A4.2



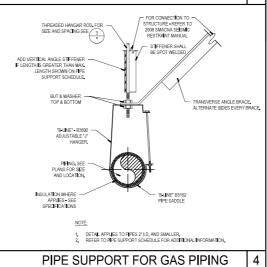
# GAS ENTRY TO BUILDING



# GAS CONNECTION TO EQUIPME

ı										
	FIPE SIZE IN INCHES		RS Q.C.	NGER ROD METER	MAX ROD LENGTH, NO STEFFERER	MAX.RCD LBHSTH, WIDH STIFFERER	LONG[TUD]NAL ANGLE BRACE	VERTICAL HANGER ANGLE (STIFFNER)	TRANSVERSE ANGLE BRACE	BOLT SIZE
ı						STEEL	PIPE FOR GAS			
L		640	6-0"	38"		37*	1 1/2 x 1 1/2 x 18 ga @ 80' 0" 0.C	1 x 1 x 18ga	1.1/2 x 1.1/2 x 18 ga @ 40/ 0" O.C.	3/8"
			8-0"	38"	ī.	37°	1-1/2 x 1-1/2 x 18 ga @ 80*0* 0.C	1 x 1 x 18ga	1-1/2 x 1-1/2 x 18 gs @ 40*-0*-0.C	3/8"
l	14 thru 2	10-0"		3/8"	16"	37*	2 1/2 x 2 1/2 x 16 ga @ 80*0* 0.C	1 x 1 x 18ga	2 1/2 x 2 1/2 x 16 ga @ 40* 0* 0.C	3/8"

# PIPE SUPPORT SCHEDULE



# **GENERAL NOTES**

- THE TOTAL INSTALLATION SHALL COMPLY WITH ANY REQUIREMENTS OF THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION NOLLDING 2022 CAG CAREON REQUIREMENTS. AND 2022 CAMICONG CALIFORNIA MECHANIZAL AND FULMANDS GOODE).
- MSIT THE SITE PRIOR TO BID AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS UNDER WHICH THEY WILL BE REQUIRED TO WORK, INDICATED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE FURDESSION.
- BEFORE PROCEEDING WITH THE WORK, CAREFULLY CHECK AND VERIFY DIMENSIONS, SIZES, REQUIRED CLEARANCES AND SHALL ASSUME FULL RESPONSIBILITY FOR THE HITTING OF EQUIPMENT AND MATERIALS HEREIN REQUIRED TO OTHER PRATES.
- THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT OFFSETS, BENDS, SPECIAL FITTINGS AND LOCATIONS ARE NOT EXACTLY LOCATED IN THE PREPARATION OF THESE DOCUMENTS, CERTAIN ASSUMPTIONS ARE MADE RESURFACE DISTRIBLE CONCIONOS, SOLIE OF THESE ASSUMPTION AND AND THE SHAPINGS AND EXPENDED AND THE SHAPING THE PROPERTY OF THESE ASSUMPTION AND THE PROPERTY OF THE PR
- ITEMS RELATED TO PLUMENING UTILITIES ANDOR OTHER SERVICE(S), MATERIALS, LABOR, PERMITS, FEES, ETC., SHALL SEWENTIPED WITH THE RESPECTIVE SERVING UTILITY COMPANY PROR TO SUBJECTIVE OF A 180, THE ACT OF SUBMITIONS A 180 SHALL CONSTITUTE PULL RESPONSELY. TO INSTALL SERVICE(S) IN COMPANIONE WITH THE REQUIREMENTS OF THE SERVING UTILITY COMPANY AND THE MESONANCIAL BURNERS, THE CONTRACTOR SHALL SE RESPONSIBLE OF OR CHARGES LEVELOS THE SERVING UTILITY COMPANY DELIVERY IN THE REST ALLIES DEPOSIT.
- 6. COMPLY WITH CONTRACT DOCUMENTS IN LAYING OUT THEIR WORK AND EQUIPMENT. THEY SHALL COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER TRADES AND JOB CONDITIONS.
- THE INSTALLATION OF ACCESS PANELS OR OTHER INDICATING EQUIPMENT OR SPECIALITIES REQUIRING READING, ADJUSTMENT, INSPECTION, REPAIRS, REMOVAL, OR REPLACEMENT SHALL BE CONVENIENTLY LOCATED WITH REFERENCE OTHER PRISE BULLIONS.
- 9. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS.
- 10. WHERE MATERIAL IS SHOWN ON THE DRAWINGS BUT NOT SPECIFIED, IT SHALL BE OF THE SAME TYPE AND QUALITY AS DISTRIBUTIONS.

- THAT INTERRUPTION TIME WILL BE AS SHORT AS OTICE OF SUCH INTERRUPTIONS AND THE ACTUAL JERS REPRESENTATIVE.
- 15. ANY SUBSTITUTION MAD INDIC THE SUBM , Is specified on the drawings shall be clearly MAIN BRANCHES, RUNS TO RISERS AND WHERE INDICATED ON DRAWING

# F. E MATERIAL SCHEDULE

SERVICE	PIPE M/ RIAL 8/ GHT	TYPE OF JOINTS	PRESSURE FITTINGS MATERIAL	SHUT-OFF RATINGS PSI - SwP	VALVE
FUEL GAS	STEEL 40, BLACK STEEL 40, BLACK	SCREWED WELDED	MALL, IRON STEEL WELD	150 150	BALL SQR HEAD COCK

NOTE: ALL EXPOSED FUEL GAS FIPING SHALL BE PRIME AND PAINTED. COORDINATE COLOR WITH ARCHITECT.

# GAS LOAD SCHEDULE

SYMBOL	ITEM	LOCATION	DEMAND (IN CFH)
RH=1	RADIANT GAS HEATER	NEW METAL BUILDING	125
RH-2	RADJANT GAS HEATER	NEW METAL BUILDING	125
RH <b>-</b> 3	RADIANT GAS HEATER	NEW METAL BUILDING	125
-	(E) LOAD	-	2,379

<350 FT.

LONGEST DEVELOPED PIPE LENGTH (MEDIUM PRESSURE @ 5 PSI)

SIZING BASED ON 2022 CPC TABLE 1215.2(6) LONGEST DEVELOPED PIPE LENGTH (LOW PRESSURE GAS) <100 FT. SIZING BASED ON 2022 CPC TABLE 1215.2(1)

# PLUMBING LEGEND AND SYMBOLS

SYMBOL	ABBREV.	DESCRIPTION
DETAIL No.		DETAIL REFERENCE
(A)		SECTION REFERENCE
STACK/RISER ID. No.		PLUMBING STACK OR RISER REFERENCE
EQUIPMENT ID, No.		EQUIPMENT REFERENCE
G	G	GAS LOW PRESSURE
MPG	MPG	GAS MEDIUM PRESSURE
<b>5</b>	SOV or GC CV	SHUT OFF VALVE OR GAS COCK ON RISER SWING CHECK VALVE
	DN	PIPE DOWN
——ю	UP	PIPE UP
	DN	TEE DOWN
— ю— с—	UP	TEE UP PIPE RISER & PIPE DROP (UP AND DOWN)
О— С— ————		CAP ON END OF PIPE
——×——	GR	GAS REGULATOR
—— <del></del>	GC	GAS COCK (or GAS STOP)
•—	P.O.C.	POINT OF CONNECTION
<b>♦</b>	P.O.D.	POINT OF DEMOLITION
D	AP	ACCESS PANEL
•	ABV	ABOVE
	BEL	BELOW
	AGA	AMERICAN GAS ASSOCIATION
	CONN	CONNECTION
	CONT	CONTINUATION EXISTING
	(E) (N)	NEW NEW
	DN DN	DOWN
	ADA	AMERICAN DISABILITY ACT
	IE .	INVERT ELEVATION
	(TYP)	TYPICAL
	U.O.N.	UNLESS OTHER NOTED
	W/	WITH
	B.F.F.	BELOW FINISH FLOOR

ANCHORAGE AND BRACING NOTES

PIPES, DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE 2008 SMACNA "GUIDELINES FOR SEBMID RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS", THE "SUPPRISTRUT SEISMIC RESTRAINT SYSTEM FOR PIPES AND CONDUITS ONLY.

SAN BERNARDING COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT

DESIGN WEST ENGINEERING
MECHANICAL•ELECTRICAL•ENERGY CONSULTANTS

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

FIRE STATION 305 PREFABRICATED METAL STORAGE BUILDING

PROJECT # 10.10.1200

8331 CALIENTE ROAD HESPERIA, CA 92344

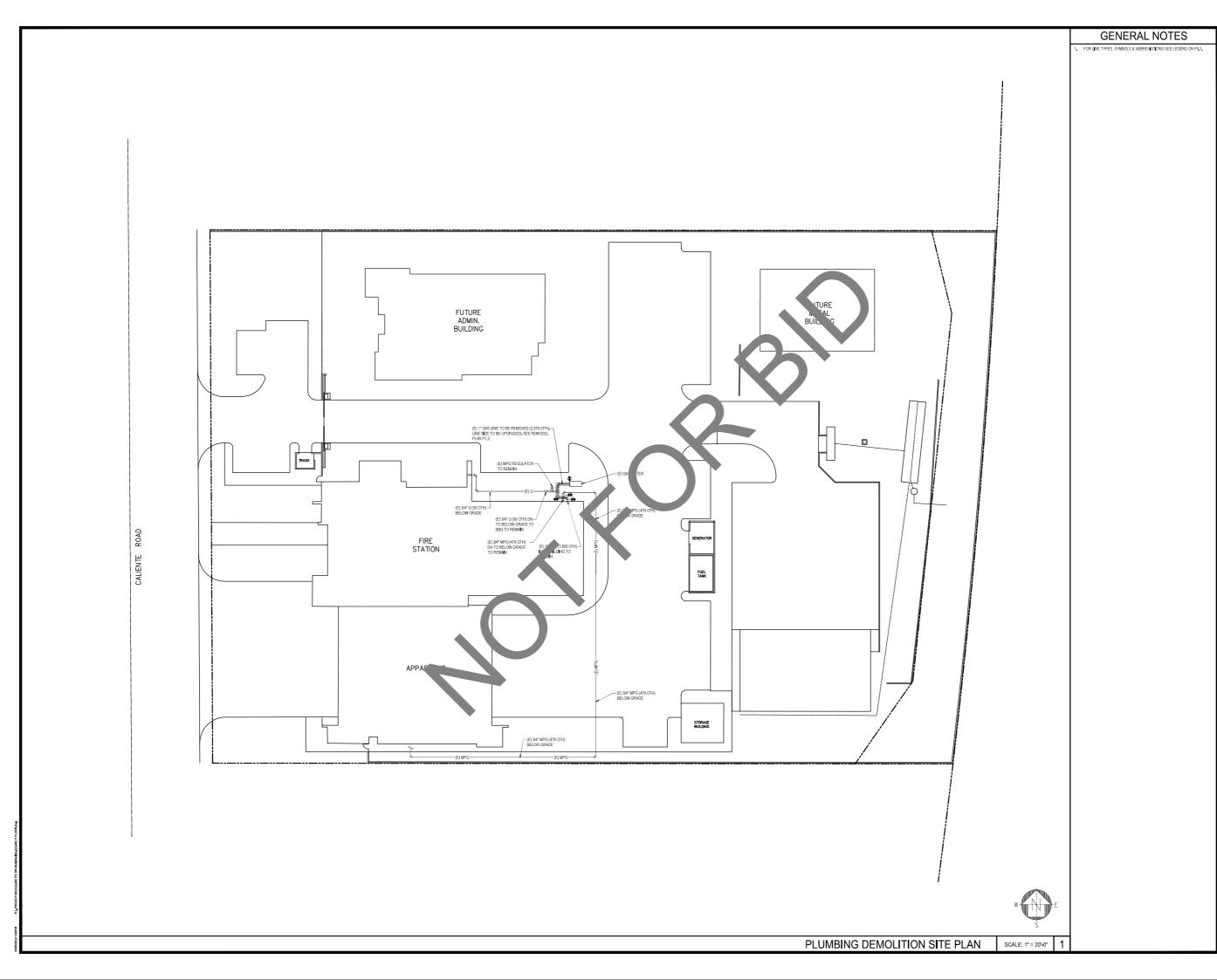
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02-29-24	PFM 1st
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STK PROJECT NO.: 374-164-22 SCALE: DATE: PLOT DATE:



PLUMBING LEGEND NOTES & SCHEDULES

P0.



CONSULTANT:



DESIGN WEST ENGINEERING
MECHANCAL • ELECTRICAL • ENERGY CONSULTANTS

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

### PROJECT NAM

FIRE STATION 305 PREFABRICATED METAL STORAGE BUILDING

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# SHEET INFORMATION:

STK PROJECT NO.: 374–164–22
SCALE: AS NOTED
DATE: FEBRUARY 2024
PLOT DATE: 
DRAWING NAME:

SEAL:



SHEET TITL

PLUMBING DEMOLITION SITE PLAN

SHEET NO.

P1.1

# FUTURE ADMIN. BUILDING FIRE STATION FUEL TANK STORAGE BUILDING PLUMBING REMODEL SITE PLAN SCALE: 1" = 20'-0"

# GENERAL NOTES

CONTRACTOR SHALL PATCH FLOORS, WALLS & CEILINGS TO MATINEW CONSTRUCTION PER ARCHITECTS SPECIFICATIONS.



CONSULTAN

412 E. Vanderbill Way San Bernardino, CA 92408 Phone: 909,990,3700 fax: 999,890,3770 Emal: cadd@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

PROJECT ADMINISTERED BY: SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

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FIRE STATION 305 PREFABRICATED METAL STORAGE BUILDING

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04-24-24	BID SET

# SHEET INFORMATION:

STK PROJECT NO.: 374–164–22
SCALE: AS NOTED
DATE: FEBRUARY 2024
PLOT DATE: DRAWING NAME:

SEAL:



SHEET TITL

PLUMBING REMODEL SITE PLAN

SHEET NO.

P1.2

# GENERAL NOTES 1. FOR LINE TYPES, SYMBOLS & ABBRENATIONS SEE LEGEND ON PUL. 2. CONTRACTOR SHALL PATCH FLOORS, WALLS & CELLINGS TO MATCH NEW CONSTRUCTION PER ARCHITECTS SPECIFICATIONS.

50X80 METAL BUILDING

FOR CONTINUATION OF 3/4" MPG, SEE SHEET P1.2



CONSULTAN

412 E. Vanderb# Way San Bernardho, CA 92408 Phone: 909.890,3700 fax: 909.890,370 Emol: cadd@designwesteng

DESIGN WEST ENGINEERING

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT & FACILITIES
MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

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FIRE STATION 305 PREFABRICATED METAL STORAGE BUILDING

PROJECT # 10.10.1200

# CONSTRUCTION NOTES

- ROUTE 1-1/4" GAS LINE DN ALONG THE WALL AND OUT THE BUILDING.
  PROVIDE WITH TO MIPS REGULATOR AND SHUT OFF VALVE AND ROUTE
  3/4" MPG (375 CFH) BELOW GRADE
- ROUTE 1" GAS LINE (125 CFH) TO HEATER WITH APPROVED A.G.A. SHU
  OFF WALVE
- 3) 5" FLUE VENT, REFER TO MECHANICAL DRAWINGS

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DRAWING NAME:

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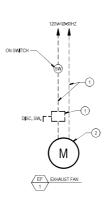
SHEET TITLE

PLUMBING FLOOR PLAN

SHEET NO.

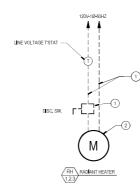
P1.3

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

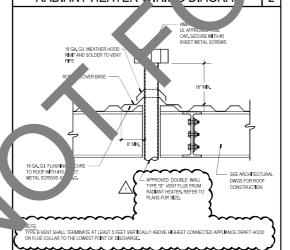


- (1) ALL WIRING AND EQUIPMENT SHOWN DASHED SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR
- 2) ALL EQUIPMENT NOT SHOWN DASHED SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

# EXHAUST FAN WIRING DIAGRAM



- - RADIANT HEATER WIRI G DIAGRA



FLUE VENT

- 4

# MECHANICAL GENERAL NOTES

- THE TOTAL INSTALLATION SHALL COMPLY WITH ANY REQUIREMENTS OF THE LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION INCLUDING 2022 CBC (CALFORNA BULDING CODE), 2022 CHOCPP (CALFORNA MECHANICAL AND PLUMENG CODE), 2022 CH. GEREN REQUIREMENTS AND THE 2022 THE APPERRY OF THE APP
- MISIT THE SITE PRIOR TO BID AND SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO WORK.
- INCICATED DIMENSIONS ARE APPROXIMATE AND ARE CIVEN FOR ESTIMATE PURPOSES ONLY, BEFORE PROCEEDING WITH THE WORK THIS CONTRACTOR SHALL CAREFULLY CHECK AND VERIEY DIMENSIONS, SIZES REQUIRED OLERANCES AND SHALL ASSUME FULL RESPONSIBILITY FOR THE TITHS OF COMMENT AND MATERIALS HERRIN REQUIRED TO OTHER PARTS OF THE WORK OF OTHER TRADES, DUCT DIMENSIONS SHOWN ON PLANS ARE NET INSIDE CLEAR.
- THE TRAINING ARE ESSIMILATED EDGENARIATE TO THE CONTENT THAT OFFSETS, SENDS, SPECIAL FITTINGS AND LOCATIONS ARE ESSIMILATED EDGENARIATED TO THE CONTENT THAT OFFSETS, SENDS, SPECIAL FITTINGS AND LOCATIONS ARE DOT PROTECTED. DICTORISE OR INDEXES SEND AND THE PRANCINGS ARE NET INSIDE OTHERS HOUSE. DO NOT FERRITOR EDUCTION FROM THESE OFFSETS THE NET OFFSETS OF THE SEND PRANCINGS WHICH REFLECT THE PROPOSED INSTITULATION. THE SHOP DRAWINGS HISTORY OF REPORT OF THE PROPOSED ACCURATE ASSISTANT OF THE PROPOSED OF THE PROPOSED ACCURATE ASSISTANT OF THE PROVINCE OF THE PROPOSED ACCURATE ASSISTANT OF THE PROVINCE AND OWNER.
- IN THE PREPARATION OF THESE DOCUMENTS, CERTAIN ASSUMPTIONS ARE MADE REGARDING DISTING CONDITIONS, SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MODEY OR DESTROYING OTHERWISE ADDITIONAL OR SERVICEABLE PORTIONS OF ENSTING BUILDINGS AND/OR EQUIPMENT, THEREFORE THE DISTINGERS WALL NOT BE HELD RESPONSIBLE FOR ANY CHANGES OR ADDITIONAL COSTS INCURRED DUE TO EXISTING CONDITIONS.
- COMPLY WITH CONTRACT DOCUMENTS IN LAYING OUT THEIR WORK AND EQUIPMENT. THEY SHALL COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER TRADES AND JOB CONDITIONS.
- WHERE NOT SPECIFICALLY INDICATED OTHERWISE, DUCTWORK AND EQUIPMENT SHALL BE SUPPORTED PER THE SMACAU GUIDELINES FOR SEISING RESTRAINT AND CURRENT APPLICABLE UNIFORM MECHANICAL CODE.
- TESTING, ADJUSTING, AND BALANCING (TAB) OF THE AIR CONDITIONING SYSTEMS AND RELATED ANCILLARY EQUIPMENT WILL BE PERFORMED BY A CERTIFICE INDEPENDENT THEO PARTY, AMEC ACENCY PROCLIFED BY THE MECHANICAL CONTRACTOR. A COMPLETE AIR BALANCE REPORT TO BE SUBMITTED TO THE ADMINISTRATIVE AUTHORITY AND TO THE MECHANICAL EXCRETE AND APPROVED PRIOR TO THAN EXTRIBUT.
- ANY SUBSTITUTION MADE THAT IS DIFFERENT FROM WHAT IS SPECIFIED ON THE DRAWINGS SHALL BE CLEARLY INDICATED ON THE SUBMITTAL AS TO THAT IS BEING SUBSTITUTED.
- WHERE MORE THAN ONE HEATING, COOLING VENTILATING, OR REPRICEPATING SYSTEM IS INSTALLED ON THE ROOF OF A BUILDING OR WITH'N A BULDING. IT SHALL BE FERMANENTLY BOSITHED AS TO THE AREA OR SPACE SERVED BY THE BULDHENEY, COOL 2026) PROJULE PERMANENT LABELING AND DESIRTEDATION FOR HAVE UNIT (SINCE SYSTEM OR MULTIPLE) AND THERMOSTATS, DENTIFICATION, SHE THERMOSTATS SHALL CORRELATE TO THE HAVE UNIT THAT IT SERVES.

# HVAC LEGEND

SYMBOL	ABBREV[AT]ONS	DESCRIPTION
DETAIL No.		DETAIL REFERENCE
EQUIPMENT ID. No.		EQUIPMENT REFERENCE
Ū-I	TSTAT	THERMOSTAT
©H		SWITCH .
1	AF.F.	ABOVE FINISHED FLOOR
I	CFM	CUBIC FEET OF AIR PER MINUTE
I	CFME	CFM EXHAUST

# NEW INDICATES ROUND DUCT (INCHES) ANCHORAGE AND BRACING NOTES

PIPES DUCTS AND CONDUITS SHALL BE SUPPORTED AND BRACED PER THE 2008 SMACHA "GUDELINES FOI SEBMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS", THE "SUPERSTRUT SEISMI RESTRAINT SYSTEM" FOR PIPES AND CONDUITS ONLY.



DESIGN WEST ENGINEERING MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

	TROOLOT ADMINISTERED DI.
SCHEDULE	SAN BERNARDINO COUNTY

_	6.	ACTURER &	ARE	1		HEATING C	APAC <b>I</b> TY	FA	N SYST	EM	GAS	FLUE	ELECT	RICAL			MANAGEMENT DEPARTMENT
G		NO.	SERV	TYPE	INPUT	OUTPUT	EFFICIENCY	CFM	DRIVE	HP	CONNECTION	DIAMETER	V-PH-HZ	AMPS	WEIGHT	REMARKS	WANAGEWENT DEPARTMENT
2		DAYTU 55FG85	AGE JLDING	NATURAL GAS	125,000 BTU/HR	103,750 BTU/HR	83% THERMAL EFFICEINCY	1,476	BELT	1/4	1/2*	5*	120V-1Ø-60Hz	6.9 MCA 15 MOCP	187 LBS	1 2	
H >		TON	METAL STORAGE BUILDING	NATURAL GAS	125,000 BTU/HR	103,750 BTU/HR	83% THERMAL EFFICEINCY	1,476	BELT	1/4	1/2*	5*	120V-1Ø-60Hz	6,9 MCA 15 MOCP	187 LBS	12	385 N. ARROWHEAD AVE.
		DAYTON 55FG85	METAL STORAGE BUILDING	NATURAL GAS	125,000 BTU/HR	103,750 BTU/HR	83% THERMAL EFFICEINCY	1,476	BELT	1/4	1/2"	5'	120V-1/2-60Hz	6.9 MCA 15 MOCP	187 LBS	1 2	SAN BERNARDINO, CA 92415

BLOWER TYPE 2 DAYTON LINE VOLT MECHANICAL TSTAT: HEAT ONLY, ON-OFF, 50° TO 90°F, EXPOSED DIAL, 120AC

1 COMPLETE WITH DISCONNECT SWITCH 2 CONTROLLED BY A SWITCH 3 WIREGUARD - MOTOR SIDE 4 WIREGUARD - PROP SIDE

# EXHAUST FAN SCHEDULE

RADIANT HEATER

710		5.W.T.05	1051 450 50		FAN SYSTE	М		ELECTRIC	CAL	OPER.WT		REMARKS
TAG	MFR. & MODEL NO.	FAN TYPE	AREA SERVED	EXHAUST CFM	ESP	RPM	MOTOR	V <del>-</del> PH <del>-</del> HZ	FLA	(LBS)	SONES	(SEE EQUIPMENT NOTES BELOW)
(EF)	COOK AWB 30A5B	WALL EXHAUST FAN	METAL STORAGE BUILDING	4,000	0.2	645	1/2 HP	120-1Ø-60Hz	9.8	173	23	1234
EQUIPME	NT NOTES:											

PROJECT NAME:

FIRE STATION 305 PREFABRICATED

METAL STORAGE BUILDING

PROJECT # 10.10.1200

ISSUE INFO	ORMATION:
DATE:	INFORMATION:
02-29-24	PFM 1st PC
04-24-24	BID SET

STK PROJECT NO.: 374-164-22 SCALE: DATE: PLOT DATE:



MECHANICAL LEGEND NOTES & SCHEDULES

M0.1

Dry System Equi	pment Sizing (includes air cor	nditioners, condensers, heat pumps, VR	F, furnaces and o	unit heaters a	and DOAS s	ystems)				
01	02	03	04	05	06	07	80	09	10	11
							er Mechanica ), 170.2(c)1 8		(kBtu/h)	
	Equipment Category per		Smallest Size	Hea	ting Outpu	t <sup>2,3</sup>	Cooling C	Output <sup>2,3</sup>	Load Calc	ulations <sup>3,4</sup>
Name or Item Tag	Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Available <sup>1</sup> 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (k8tu/h)	Total Sensible Cooling Load (k8tu/h
Radiant Heaters	PTAC/ PTHP	PTAC replacements	NA: Load Controls	311.25	103.75	0	0	0	282.36	179.18

01	02	03	04	05	06	07
	Heati	ng Mode			Cooling Mode	
Name or Item Tag	Rated Output Capacity (kBtu/h)	Minimum COP Required per Table 110.2-E	Design COP	Rated Output Capacity (kBtu/h)	Minimum EER Required per Tables 110.2-E	Design EER
Radiant Heaters	103750	3	0.8	0	11.9	0

Commence of the Commence of th		
	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-4473-0124-1872 Report Generated: 2024-01-29 11:27:59

STATE OF CALIFOR	NIA		
Mechanica	al Systems		CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF	COMPLIANCE		NRCC-MCH
Project Name:	FS 305 - Metal Storage Building	Report Page:	(Page 6 of
		Date Prenared:	1/29/20

I VENTILATION	N AND IN	DOOR AIR QUALITY								
This table is used d:t24refnolink/].	d to demoi 160.2, 160 I to be doc	nstrate compliance with 1 1.3(a)3D, 170.2(a)4N, 170	2(a)40 for high	n-rise resident	ial occupar	cies. For a	terations, o	(p) and 140.4(q) for all no only ventilation systems be irflows may be shown on t	eing altered within the	scope of the permit
01		Check the box if the p	oject is showin	g ventilation	calculations	on the pla	ns, or attac	hing the calculations inst	ead of completing this	table.
851	⊠	Check this box if the p	roject included	Nonresidenti	al, Hotel/M	lotel Space	or Multifa	mily Common Use Spaces	5	
02										
03		Check the box if the p	roject is using n	atural ventila	tion in any	nonresiden	tial or hote	/motel spaces to meet re	equired ventilation rat	es per 120.1(c)2.
Nonresidential	and Hotel	Motel Multifamily Com	mon Use Venti	lation System	s					
	n	4		05				06		07
System Name	1	Radiant Heaters	System Des	ign OA CFM	0		Design Air CFM	0		20.1(c) 141.0(b)2 and 2(c)21 <sup>2</sup>
			Airt	low.		transier	AIT CFIVI		Pro	ovided
08		09	10	11	12	13	14	15		16
		Mechanical Ventilation	Required per 1	120.1(c)3 <sup>3</sup> & 1	60.2(c)3		Exh. V	/ent per 120.1(c)4 & 160.2(c)4	DCV or Sensor Co	ntrols per 120.1(d)3,
Space Name or Item Tag	C	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower heads/ toilets	# of people <sup>c</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM	120.1(d)5, and 120.1(e)3 <sup>6</sup> 160.2(c)5D 160.2(c)5E 160.2(c)5D	
Metal Storage	Оссирі	able storage rooms for	toon				£000		DCV	NA: Not required per §120.1(d)3
Building		liquids/ gels	4000			0	6000	0	2.00	NA: Not required

	Generated Date/Time:	Documentation Software: EnergyPro
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022,0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-4473-0124-1872 Report Generated: 2024-01-29 11:27:59

STATE OF CALIFORNIA  Mechanical Systems			CALIFORNIA FNERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name: FS 305 - Metal Storage Building		Report Page:	(Page 9 of 9)
Project Address.	8331 Caliente Road	Date Prepared.	1/29/20

I certify that this Certificate of Compliance documentation is a	ccurate and complete.
Documentation Author Name. Steven Johnson	Documentation Author Signature. Steven Johnson
Company: Design West Engineering	Signature Date: 01/29/2024
Address: 412 East Vanderbilt Way	CEA/ HERS Certification Identification (if applicable): M33209
City/State/7ip- San Bernardino CA 92408	Phone: 909-890-3700
The energy features and performance specifications, materials, component of Title 24, Part 1 and Part 6 of the California Code of Regulations.  The building design features or system design features identified on this Cer	or responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) as, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requiremental control of the compliance conform to the requirement rifficate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations,
inspections. I understand that a completed signed copy of this Certificate of	shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable f Compliance is required to be included with the documentation the building provides to the building owner at occupancy.
<ol> <li>will ensure that a completed signed copy of this Certificate of Compliance inspections. I understand that a completed signed copy of this Certificate of Responsible Designer Name:</li> </ol>	shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable
<ol> <li>i will ensure that a completed signed copy of this Certificate of Compliance inspections. I understand that a completed signed copy of this Certificate of Responsible Designer Name: Steven Johnson</li> <li>Company:</li> </ol>	shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable f Compliance is required to be included with the documentation the building provides to the building owner at occupancy.
5. I will ensure that a completed signed copy of this Certificate of Compliance	shall be made available with the building permitty) issued for the building, and made available to the enforcement agency for all applicable (Compliance is required to be included with becommentation by builder provides to the building owner at occupancy.  Responsible Designer Signature:  June Sygnot:  Uses Sygnot:

STATE OF CALIFORNIA		
Mechanical Systems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: FS 305 - Metal Storage Building	Report Page:	(Page 2 of 9)
	Date Prenared:	1/29/2024

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)48	AND	Distribution 120.3, 140.4(I), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	1
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND		AND		COMPLIES
				Mandatory	Meast	ires Complian	ce (See	Table Q for D	etails)				COMP	LIES	

D. EXCEPTIONAL CONDITION	13				
This table is auto-filled with une	ditable comments because	of selections made or data entere	ed in tables throughout the form	1.	
E. ADDITIONAL REMARKS					
This table includes remarks mad	le by the permit applicant to	the Authority Having Jurisdiction	n.		
F. HVAC SYSTEM SUMMARY	(DRY & WET SYSTEMS)				
Space Conditioning System Info	ormation	g			
01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
Radiant Heaters	3	Single zone	New/ Addition		

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  STATE OF CALIFORNIA  Mechanical Systems	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: Energy 4773 872 Report Genery 1024-01-29 1 159 CALIFORN ERGY MINISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: FS 305 - Metal Storage Building	Report Page:	(Page 5 of 9)
	Date Pressured	/29/207

Fan System Name	Qty	Hour. Operation Year	on per De	sign Supply rflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per 140.4(q) 8 170.2(c)40	ust Air covery 1 14 & B	aty Kalung	Energy Recovery Bypass
Fan Energy Inde	x (FEI)					•				-
	01					02			03	
	Name or It	tem Tag				FEI Exception			FEI	
	Radiant H	leaters				None Appl			1	
This table is used	to demonstrati				ols in 110.2 ag	2 and press	e controls i	in 140.4(f) a h), 170.2	(c)4D 170.2(c)4L	or requirements in
This table is used 141.0(b)2E 180.2(	to demonstrati	space con	ditioning sy:				e controls i			
This table is used	to demonstrati (b)2 for altered	02 System		tems.  d The 110.2(b) d 160.3(a)2A	04 err 3 & (c) 2(a	05 Shy	Isolation Zone Controls 120.2(g) & 160.3(a)2F	b7  Demand Response 110.12 120.2(b) & 160.3(a)28	08 Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	or requirements in 09 Window Interlocks pt 140.4(n) & 170.2(c)4(

	Generated Date/Time:	Documentation Software: EnergyPro
A Building Errer ficiency Standards - 2022 Non ential Compliance	Repurt Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID. EnergyPro-4473-0124-1872 Report Generated: 2024-01-29 11:27:59
CALIFORNIA		

STIC CALIFORNIA  Mec ical Sys		CALIFORNIA ENERGY COMMISSION
CERTIFICA COMPLIANC		NRCC-MCH-E
Project Name: 305 - Metal Storage Building	Report Page:	(Page 8 of 9)
	Date Prepared:	1/29/2024
	•	

ions have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in the format must be provided to the building inspector during construction and can be found online at	n Table E Additional Remarks.
https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	Dayton 55FG85;
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	Dayton 55FG85;
NRCA-MCH-11-A Automatic Demand Shed Controls	Dayton 55FG85:
NRCA-MCH-16-A Supply Air Temperature Reset Controls	Dayton 55FG85;
NRCA-MCH-18-A Energy Management Control Systems	Dayton 55FG85:

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION		
There are no NRCV forms required for this project.		
Q. MANDATORY MEASURES DOCUMENTATION LOCATION		
This table is used to indicate where mandatory measures are documented in the pl	an set or construction documentation	on.
01		02
Compliance with Mandatory Measures documented through MCH		Plan sheet or construction document location
Mandatory Measures Note Block	Yes	M-Sheets

CERTIFICATE OF	COMPLIANCE			NRCC-MCH-E
	t is used to demonstrate compliance for mech in 140.4, or 141.0(b)2 for alterations.	nanical systems that are within th	e scope of the permit application and are demo	nstrating compliance using the prescriptive
Project Name:	FS 305 - Metal Storage Building		Report Page:	(Page 1 of 9)
		8331 Caliente Road	Data Barrera	1/29/2024

01 Project Location (city)	Hesperia	04	Total Conditioned Floor Area	4000
02 Climate Zone	14	05	Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

	ECT SCOPE				
	Includes mechanical systems or components that are 10.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.	within t	he scope of the permit application and are de	monstrating con	pliance using the prescriptive path outlined in
40.4, 17	0.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.		02	1	03
	Air System(s)		Wet System Components		Dry System Components
$\boxtimes$	Heating Air System		Water Economizer		Air Economizer
	Cooling Air System		Pumps		Electric Resistance Heat
	Mechanical Controls		System Piping	⊠	Fan Systems
	Mechanical Controls (existing to remain, altered or new)		Cooling Towers		Ductwork (existing to remain, altered or new
			Chillers	×	Ventilation
			Boilers		Zonal Systems/ Terminal Boxes

	Generated Date/Time:	Documentation Software: EnergyP
Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Compliance ID: EnergyPro-4473-0124-18: Report Generated: 2024-01-29 11:27:

Mechanical Systems		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: FS 305 - Metal Storage Building	Report Page:	(Page 4 of 9)
	Date Prepared:	1/29/2024

				liance with presi quirements and					40.4(e), 140	0.4(m), 170.2	(c)3, and 1	70.2(c)4A for f	an systems.	Fan systems se	erving only
System Name	Radiant Heaters	Quantit y	3	Fan System Status	New		all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	4,428	Site Elevation	3,191	Economizer	NA: <=33 kBtu/h cooling
01	02	03		04			15	06	07	08		09		10	11
Fan									Allov	vance			Design		
Name or Item Tag	Fan Type	Qty		Component			through nent (%)	Water Gauge (w.g)	Compone nt Allowance	Allowance (watt/cfm)	Design I	Electrical Inpu Method	t Power	Motor Nameplate Horsepower	Design Electrica Input Power (k)
SF	6 miles	,		lowance for syst saces <=6 floors		1,	476		342			ufacturer prov	etal.		0.44
21	Supply	3		13-16 Filter up: al conditioning e		1,	476		205		Man	uracturer prov	лаеа		0.44
	Fan Base nce (kW)		Đ	khuast/Return/R Allov	elief/Transf	er Fan Ba	ase			ystem ce (kW) <sup>3</sup>	1.	64		em Electrical out (kW)	1.31

AT RECOVERY	AT RECOVERY 140.4(q),

M. COOLING TOWERS

- 01	02	03	.04	05	06	07	06	09	10	- 11
					Generated Date/1	ime:			Documentation So	ftware: EnergyPro
CA Building Energ	gy Efficiency Standa	ards - 2022 Nonres	idential Compliance		Report Version: 2i Schema Version: r				iance ID: EnergyPro ort Generated: 20	0-4473-0124-1872 24-01-29 11:27:59

Project Name: FS 305 - Metal Storage Building	Report Page:	(Page 7 of 9)
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Mechanical Systems		CALIFORNIA ENERGY COMMISSION
STATE OF CALIFORNIA		

L. VENTILATION AND INDOOR AIR QUALTY

For lecture help with fixed secting, the expected number of occupants shall be determined in accordance with the California Building Code.

§ 120 1921 requires systems: surviving mores that non-required by 130 161 to how lighting norreprony sensing nontrink to nice have norreprony sensing non-rentrink for wentilation.

Examples of spaces which require lighting occupancy sensors include offices 250ff or smaller, multipurpose rooms less than 1,000 ff<sup>2</sup>; classrooms, conference rooms, restrooms, asides and open oreas in waveflowers, likery book stock oxides, corridors, stainwest, parting garages, and loading and unloading zones, unless excepted by 130.1(c).

K. TERMINAL BOX CONTROLS	
This section does not apply to this project.	

This section does not apply to this project.		

IN. DECLARATION OF REQUIRED CENTIFICATES OF INSTALLATION	
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Reman	s.
These documents must be provided to the building inspector during construction and can be found online at	
https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	
Form/Title	_
NDC MCU DS F. Months are bright of the effective of the e	_

DESIGN WEST ENGINEERING MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

SAN BERNARDINO COUNTY PROJECT & FACILITIES MANAGEMENT DEPARTMENT

385 N. ARROWHEAD AVE. SAN BERNARDINO, CA 92415

FIRE STATION 305 PREFABRICATED METAL STORAGE BUILDING

PROJECT # 10.10.1200

8331 CALIENTE ROAD HESPERIA, CA 92344

ATE: INFO	RMATION:
2-29-24	PFW
4-24-24	

SHEET INFORMATION: STK PROJECT NO.: 374-164-22 SCALE:

FEBRUARY 2024

DATE: F
PLOT DATE:
DRAWING NAME:

**MECHANICAL** TITLE 24 REQUIREMENTS

M0.2