ATTACHMENT 6: UPDATED PROJECT PLANS, DATED OCTOBER 14, 2021

MAGU Farms, LLC

PROCESSING BUILDING

andrulaitis+mixon
2040 ALAMEDA PADRE SERRA
SANTA BARBARA SUITE 107
CALIFORNIA 805 899 2528

ABBREVIATIONS

@	AT	LT	LIGHT
d	PENNY	MAS	MASONRY
0#	POUND	MATL	MATERIAL
AB	ANCHOR BOLT	MAX	MAXIMUM
AC	ASPHALTIC CONCRETE	MB	MACHINE BOLT
A/C	AIR CONDITIONING	MECH	MECHANICAL
AL	ALUMINUM	MEMB	MEMBRANE
AD	ANODIZED	MET	METAL
AW	AWNING	MFR	MANUFACTURER
BD	BOARD	MIN	MINIMUM
BF	BIFOLD	MISC	MISCELLANEOUS
BLDG	BUILDING	N	NORTH
BLK(G)	BLOCK(ING)	(N)	NEW
BM	BEAM	NIC	NOT IN CONTRACT
BN	BOUNDARY NAILING	NO OR #	NUMBER
BOT	BOTTOM		
CB	CATCH BASIN	NTS	NOT TO SCALE
CI	CAST IRON	OC	ON CENTER
CJ	CEILING JOIST	OH	OVAL HEAD OR OVER HEAD
CLG	CEILING		
CL	CLOSET	OPNG	OPENING
CLR	CLEAR	PERF	PERFORATED
CMU	CONCRETE MASONRY UNIT	PF	PRE FINISHED
		PL	PLATE OR PROPERTY LINE
CO	CLEAN OUT		
COL	COLUMN	PLAM	PLASTIC LAMINATE
CONN	CONNECTION	PLAS	PLASTER
CONT	CONTINUOUS	PLYWD	PLYWOOD
CS	CASEMENT	PMTR	PERIMETER
CSK	COUNTERSINK	PT	PAINT
DF	DOUGLAS FIR	PR	PAIR
DH	DOUBLE HUNG	PTDF	PRESSURE TREATED DOUGLAS FIR
DIA	DIAMETER		
DN	DOWN	RD	ROOF DRAIN
DS	DOWNSPOUT	RH	ROUND HEAD
DWG	DRAWING	RM	ROOM
E	EAST	RO	ROUGH OPENING
(E)	EXISTING	RWD	REDWOOD
EA	EACH	SCHED	SCHEDULE(D)
EJ	EXPANSION JOINT	SCW	SOLID CORE WOOD
ELEV	ELEVATION	S	SOUTH
EN	EDGE NAIL	SF	SQUARE FEET
EQ	EQUAL	SH	SINGLE HUNG
EQUIP	EQUIPMENT	SHT	SHEET
FAU	FORCED AIR UNIT	SHTH'G	SHEATHING
FBO	FURNISHED BY OWNER OR OTHERS, TO BE INSTALLED BY CONTRACTOR	SIM	SIMILAR
		SMACNA	RE: THE ARCH SHEET METAL MANUAL
		STRUC	STRUCTURAL
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FE(C)	FIRE EXTINGUISHER (& CABINET)	SQ	SQUARE
		S/S	STAINLESS STEEL
	FLOOR DRAIN	ST	STAIN
FF	FINISHED FLOOR	STD	STANDARD
FG	FINISHED GRADE	STL	STEEL
FH	FLAT HEAD	TC	TOP OF CURB OR TOP OF CONCRETE
FIN	FINISH		
FL	FLOW LEVEL	TCB	TOP OF CATCH BASIN
FLG	FLASHING	T&G	TONGUE AND GROOVE
FLR	FLOOR		
FN	FIELD NAILING	THRU	THROUGH
FOC	FACE OF CONCRETE	TMP	TEMPERED
FOF	FACE OF FINISH	TP	TOP OF PAVING
FOM	FACE OF MASONRY	TW	TOP OF WALL
FOP	FACE OF PLYWOOD	TYP	TYPICAL (ITEMS TYPICAL UNLESS SHOWN OR NOTED OTHERWISE)
FOS	FACE OF STUD		
FR	FRENCH DOOR		
FT	FOOT OR FEET		
FX	FIXED	UNO	UNLESS NOTED OTHERWISE
GA	GAUGE		
GALV	GALVANIZED	UV	ULTRAVIOLET BLOCKING GLASS
GYP	GYPSUM	VCT	VINYL COMPOSITION TILE
HB	HOSE BIBB		
HCW	HOLLOW CORE WOOD	VERT	VERTICAL
HM	HOLLOW METAL	VGDF	VERTICAL GRAIN DOUGLAS FIR
HP	HORSE POWER		
HR	HOUR	VTR	VENT THRU ROOF
HTR	HEATER	W	WEST
HVAC	HEATING/ VENTILATION/ AIR CONDITIONING	WC	WATER CLOSET
		WD	WOOD
		WH	WATER HEATER
HW(R)	HOT WATER (RETURN)	WP	WATERPROOF
INV	INVERT	WS	WOOD SCREW
LAG	LAMINATED GLASS	WWF	WELDED WIRE FABRIC
LAM	LAMINATE	W/	WITH
LB	LAG BOLT	W/O	WITHOUT

SYMBOLS

WORK POINT,CONTROL PT. OR DATUM PT.
INTERIOR ELEVATION(S)
ELEVATION # SHEET WHERE DRAWN
WINDOW TYPE
DOOR TYPE
REVISION
PARTITION TYPE
Room Name 101 ROOM NUMBER
101 REFERENCE NOTE
SECTION
SECTION IDENTIFICATION SHEET WHERE DRAWN
DETAIL REFERENCE
DETAIL NUMBER SHEET WHERE DRAWN
123 EXIST. CONTOUR
123 NEW CONTOUR
123 NEW GRADE
123 EXISTING GRADE

GENERAL NOTES

1 ALL WORK, MATERIAL, METHODS, ETC. SHALL CONFORM TO ALL GOVERNING BUILDING CODES AND REGULATIONS CURRENTLY IN EFFECT.
2 THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" AIA DOCUMENT A201, LATEST VERSION, SHALL BE PART OF THESE PLANS AND SPECIFICATIONS.
3 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT. INSTALL TEMPORARY BRACING AND SHORING AS REQUIRED TO GUARANTEE THE SAFETY OF THE WORK UNTIL IT IS IN ITS COMPLETED FORM.
4 THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES DISCOVERED IN THE DRAWINGS AND/OR SPECIFICATIONS. IN THE EVENT OF DISCREPANCIES BETWEEN ANY DRAWINGS AND/OR SPECIFICATIONS, THE COSTLIER OR MORE RESTRICTIVE CONDITION SHALL BE DEEMED THE CONTRACT REQUIREMENT, UNLESS OTHERWISE APPROVED IN WRITING BY THE ARCHITECT.
5 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN ALL SUB-CONTRACTORS.
6 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UNDERGROUND UTILITIES.
7 THE CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS PRIOR TO BID. ON SITE VERIFICATION OF ALL (E) DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUB-CONTRACTOR.
8 GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB, EXCEPT WHERE THEY MAY CONFLICT WITH SPECIFIC DETAILS AND NOTES. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED AND TYPICAL DETAILS DO NOT APPLY, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
9 ALL DIMENSIONS TYPICALLY TO FACE TO STUD (F.O.S.) UNLESS NOTED OTHERWISE. ALL OPENINGS DIMENSIONED TO CENTERLINE OF OPENING. PLYWOOD AT EXTERIOR WALLS SHALL ALIGN WITH FACE OF CONCRETE FOOTING. "FINISHED FLOOR" INDICATES TOP OF STRUCTURAL CONCRETE SLAB OR PLYWOOD DECK.
10 NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE.
11 CARPENTRY SHALL BE IN ACCORDANCE WITH CHAPTER 23, U.B.C.
12 ALL COVER PLATES, GRILLS, AND EXPOSED ELECTRICAL FITTINGS TO BE WHITE, UNLESS NOTED OTHERWISE.
13 ALL PENETRATIONS OF 1-HOUR FIRE RESISTIVE CONSTRUCTION SHALL BE PROTECTED WITH APPROVED FIRE ASSEMBLIES.
14 THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CEILING, BASEMENT, UNDERFLOOR OR WALL ACCESS PANELS AS REQUIRED BY GOVERNING AGENCIES FOR VENTILATION, CRAWLSPACE AND ATTIC ACCESS, AIR CONDITIONING, PLUMBING, FIRE SPRINKLER AND ELECTRICAL SYSTEMS. PROVIDE RATED ASSEMBLIES WHERE REQUIRED.
15 ARCHITECT IS NOT RESPONSIBLE FOR MOLD ENCOUNTERED DURING OR AFTER CONSTRUCTION. MOLD & MILDEW OCCURS NATURALLY IN THE ENVIRONMENT. CONTRACTOR TO PROVIDE PROPER VENTILATION, PROPERLY DRIED WOOD, VAPOR BARRIERS, AS WELL AS MATERIALS THAT "BREATHE" TO AVOID MOLD FROM OCCURING. NOTIFY ARCHITECT OF ANY DISCREPANCIES OR CONDITIONS IN PLANS THAT COULD LEAD TO MOLD OCCURANCE PRIOR TO CONSTRUCTION.

COMMERCIAL JOBS ONLY:

16 HANDICAPPED ACCESSIBILITY:
THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN TITLE 24 CAC AND ADA TITLE III STANDARDS. THE SYMBOL SPECIFIED SHALL CONSIST OF A WHITE FIGURE ON A BLUS BLACKGROUND. THE BLUE SHALL BE EQUAL TO COLR NO, 15090 IN FED. STANDARD 595A.

17 THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORMS. ALL LIGHT SWITCHES AND THERMOSTATS SHALL BE MOUNTED NO MORE THAN 48" ABOVE FINISHED FLOOR ELEVATION.

18 ALL RAMPS SHALL HAVE A MEDIUM BROOM FINISH UNLESS NOTED OTHERWISE ON PLANS.

SANTA BARBARA COUNTY:

19 WATER FLOW REQUIREMENTS PER CALIFORNIA GREEN BUILDING STANDARDS CODE.

20 FIRESTOPPING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:

A. CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING/FLOOR LEVELS AND AT 10 FOOT INTERVALS ALONG THE LENGTH OF THE WALL.
B. INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
C. CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF THE STAIRS.
U.B.C. SEC. 708.2.1 (3)

21 ALL EXTERIOR OPENINGS TO BE FLASHED IN A MANNER TO MAKE THEM WEATHERPROOF. U.B.C. SEC. 1402

CODE ANALYSIS

APPLICABLE CODES:

Intent to comply with
2019 California Administrative Code
2019 California Building Code
2019 California Electrical Code
2019 California Mechanical Code
2019 California Plumbing Code
2019 California Energy Code
2019 California Historical Building Code
2019 California Fire Code
2019 California Existing Building Code
2019 California Green Building Standards Code (CGBSC)
2019 California Reference Standards Code
2010 ADA Standards for Accessible Design
State Codes

OCCUPANCY GROUP: SECTION 302	B	F-1	S-1	A-2
SPRINKLERED?	YES	YES	YES	YES
CONSTRUCTION TYPE: SECTION 602	V-B	V-B	V-B	V-B
ALLOWABLE HEIGHT (FEET): TABLE 504.3	60	60	60	40
ALLOWABLE HEIGHT (STORIES): TABLE 504.4	3	2	2	2
ALLOWABLE FLOOR AREA: 506.2	36,000	34,000	36,000	24,000
ACTUAL GROSS FLOOR AREA	4,260 SF	11,256 SF	8,358 SF	1,181 SF

MIXED OCCUPANCY FLOOR RATION: 508.4.3

$$\frac{4{,}260\ SF}{36{,}000\ SF} + \frac{11256\ SF}{34{,}000\ SF} + \frac{8358\ SF}{36{,}000\ SF} + \frac{1181\ SF}{24{,}000\ SF} \quad \frac{25{,}055\ SF}{130{,}000\ SF} = 0.19 < 1$$

OCCUPANCY SEPARATION: TABLE 508.4

ADJOINING OCCUPANCIES	B/F-1/S-1	B/F-1/S-1 TO A-2
REQUIRED SEPARATION*	0 HR	1 HR

CONSTRUCTION CLASSIFICATION - TABLE 601 & 602:

STRUCTURAL FRAME:	0 HR
BEARING WALLS-EXTERIOR:	0 HR
BEARING WALLS-INTERIOR:	0 HR
NONBEARING WALLS-EXTERIOR: TABLE 602	
X < 5'	1 HR
5'≤X < 10'	1 HR
10'≤X < 30'	0 HR
X ≥30'	0 HR
NONBEARING WALLS-INTERIOR:	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR

ALLOWABLE AREA OF OPENINGS: TABLE 705.8
All openings are Unprotected & Sprinklered, and applicable to all 3 of the building's occupancies

FIRE SEPARATION DISTANCE (FT)	
X < 3'	Not Permitted
3' ≤X < 5'	15%
5' ≤X < 10'	25%
10' ≤X < 15'	45%
15' ≤X < 20'	75%
20' ≤X < 25'	No Limit
25' ≤X < 30'	No Limit
30' ≤X	No Limit

OCCUPANT LOAD: TABLE 1004.1.2

	USE	SF/OCC	AREA	LOAD	TWO EXITS?
101	Entry Vestibule	150 Grs	545	1	NO
102	Womens	150 Grs	214	2	NO
103	Mens	150 Grs	214	6	NO
104	Lockers	50 Grs	241	7	NO
105	Network Closet	150 Grs	28	4	NO
106	HR Office 1	150 Grs	128	4	NO
107	HR Office 2	150 Grs	439	3	NO
108	Office 1	150 Grs	119	1	NO
109	Office 2	150 Grs	119	1	NO
110	Office 3	150 Grs	119	1	NO
111	Office 4	150 Grs	134	1	NO
112	Open Office	150 Grs	1385	10	NO
113	Mom's Room	150 Grs	70	1	NO
114	Jan Closet	150 Grs	83	1	NO
115	Break Room	15 Grs	1181	79	YES
116	Processing Rm 4	100 Grs	3355	34	NO
117	Processing Rm 2	100 Grs	1207	13	NO
118	Office 5	150 Grs	424	3	NO
119	Vault	300 Grs	817	3	NO
120	Processing Rm 3	100 Grs	1677	17	NO
121	Processing Rm 1	100 Grs	2503	26	NO
122	Electrical Rm	300 Grs	31	1	NO
123	Drying Rm 7	300 Grs	1102	4	NO
124	Drying Rm 6	300 Grs	884	3	NO
125	Drying Rm 5	300 Grs	884	3	NO
126	Drying Rm 4	300 Grs	884	3	NO
127	Drying Rm 3	300 Grs	884	3	NO
128	Drying Rm 2	300 Grs	884	3	NO
129	Drying Rm 1	300 Grs	884	3	NO
130	Freezer Rm 1	300 Grs	1102	4	NO
131	Pre-Dry Rm	100 Grs	2514	26	NO
	TOTAL		25055	271	NO

PLUMBING FACILITIES

PLUMBING FACILITIES LOAD: CPC TABLE 442.1

	USE	SF/OCC	AREA	LOAD
1st Flr	B Occupancy	200	4260	22
	F Occupancy	2000	11256	6
	S Occupancy	5000	8358	2
	A-2 Occupancy	30	1181	40
	Total		**25055**	**70**

70 Total Occupants = 35 Male and Female

DOMINANT OCCUPANCY A-2

FIXTURES REQUIRED AND PROVIDED

	REQUIRED MALE	REQUIRED FEMALE	PROVIDED MALE	PROVIDED FEMALE	UNISEX
WTR CLOSETS	1	2	2	3	
URINALS	1	NA	2	NA	
LAVATORIES	1	1	2	2	
SHOWERS	0	0	NA	NA	NA
D. FOUNTAINS	1				2
SERVICE SINK	1				1

TABULATIONS

PROPERTY OWNERS:			MAGU Farms, LLC
PROJECT ADDRESS:			3561 FOOTHILL RD CARPINTERIA, CA
A.P.N.:			005-280-040
HIGH FIRE ZONE?			YES
FLOOD ZONE?			YES/NO
LAND USE ZONE:			AG-1-10
SETBACKS:			
FRONT:			50' FROM CL OF STREET/ 30' FROM ROW
REAR:			20'0"
INTERIOR:			20'0"
LOT AREA:	GROSS:		654,029 SF / 15.01 ACRES
	NET:		638,700 SF / 14.66 ACRES

BUILDING AREA

EXISTING BUILDING FLOOR AREA:	
GREENHOUSE 1	77,190 SF
GREENHOUSE 2	77,190 SF
GREENHOUSE 3	67,230 SF
GREENHOUSE 4	67,230 SF
GREENHOUSE 5	67,230 SF
(E) WAREHOUSE	16,800 SF
STORAGE SHEDS/ACC BLDGS	3,210 SF
EXISTING BUILDING AREA TO BE REMOVED:	0 SF
PROPOSED ADDITION:	25,000 SF
NET SQUARE FOOTAGE:	401,080 SF

PARKING

TOTAL PARKING SPACES REQUIRED:		
GREENHOUSES - 2 PER AC	8 acres	8 x 2 = 16
TOTAL REQUIRED		16
TOTAL PARKING SPACES PROVIDED:		53
NUMBER OF COMPACT SPACES:		0
NUMBER OF ACCESSIBLE SPACES:		3

SITE STATISTICS

	SF	% COVERAGE
BUILDING FOOTPRINT:	401,080	62.8 %
LANDSCAPING:	6,964	1.0 %
PAVED AREAS:	29,522	4.6 %
EXISTING	21,707	3.4 %
PROPOSED	7,815	1.2 %
OPEN AREA:	201,134	31.5 %
TOTAL:	638,700	100 %

DEFFERED SUBMITTALS

1. FIRE SPRINKLER INSTALLATIONS
2. PROCESSING DRYING ROOMS MECHANIAL EQUIPMENT

DRAWING INDEX

ARCHITECT
ANDRULAITIS+MIXON ARCHITECTS, INC.
2040 ALAMEDA PADRE SERRA, SUITE 107
SANTA BARBARA, CA 93103
805.899.2528

CIVIL ENGINEER
COAST ENGINEERING & SURVEY INC.
22 ANACAPA, #2
SANTA BARBARA, CA 93101
805.439.1920

SURVEYOR
WATERS CARDENAS LAND SURVEYING, LLP
5553 HOLLISTER AVE, SUITE 7
GOLETA, CA 93117
805.967.4416

LAND PLANNER
JAY HIGGINS LAND PLANNER / ACQUISITIONS
3217 CALLE NOGUERA, SUITE C
SANTA BARBARA, CA 93105
805.617.4563

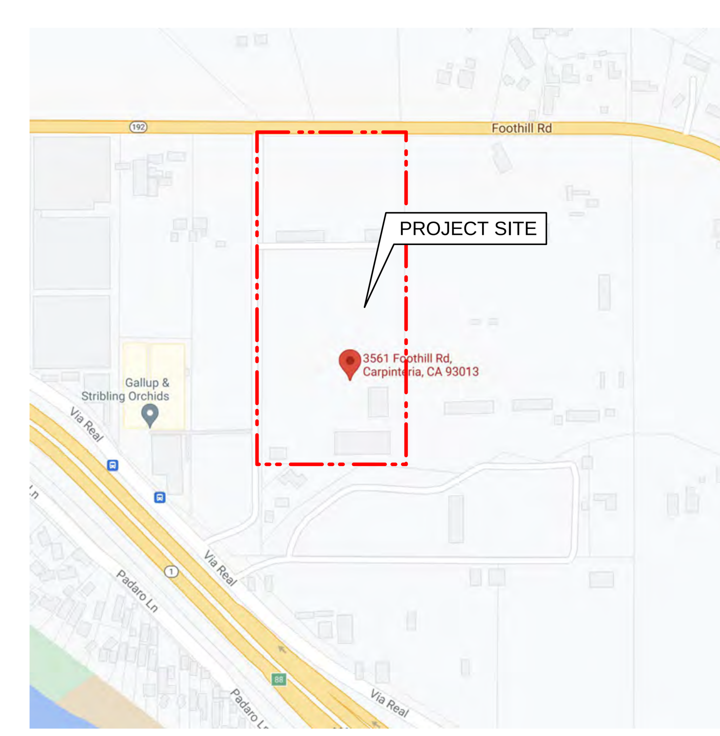
MECHANICAL/PLUMBING ENGINEER
AG MECHANICAL ENGINEEERS, INC
629 STATE STREET, STE 210
SANTA BARBARA, CA 93101
805.564.5076

ELECTRICAL ENGINEER
ALAN NOELLE ENGINEERING
1616 ANACAPA STREET
SANTA BARBARA, CA 93101
805.563.5444

SCOPE OF WORK

PROPOSED DEVELOPMENT OF A CANNABIS PROCESSING BUILDING AND SUPPORTING ACCESSORY SPACES.

VICINITY MAP



DRAWING INDEX

Proposed Project/Remodel for:
MAGU Farms, LLC - Processing Building
3561 Foothill Road
Carpinteria, CA

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
01.31.23
Renewal Date
STATE OF CALIFORNIA

JOB NUMBER
18.012

PERMIT NUMBER

CONTENTS
TITLE SHEET

SUBMITTALS

DATE	TYPE

ISSUE DATE
05.21.2021

REVISIONS

NO.	DATE	TYPE

G-001

CONDENSER UNITS FOR DRYING ROOMS

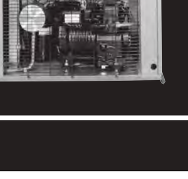
H-MSTB
November 2018
Replaces H-MSTB, October 2018

M Series

AIR-COOLED CONDENSING UNITS

1/2-6 HP Indoor and Outdoor Models

Technical Guide



MOH • MOZ • MOS

1/2 To 6 HP Indoor & Outdoor Condensing Units

HERMETIC COMPRESSORS
Unit Specifications

Model	Fig. ++	Compressor	Connections (ID) Liquid	Connections (ID) Suction	Receiver 90% Full Lbs.	Fan(s)	Dimensions D (In.)	Dimensions W (In.)	Dimensions H (In.)	Net Wt. Lbs.	Sound Data dBA†
MOH005X6	A	RST45C1E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/2	135	68
MOH008X6	A	RST55C1E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/2	135	68
MOH009X6	A	RST64C1E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/2	144	68
MOH010X6	A	RST70C1E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	138	68
MOH015X6	B	CS10K6E	3/8	5/8	9.0	2	28-1/4	37-3/4	17-1/4	193	71
MOH020X6	B	CS12K6E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	203	73
MOH025X6	B	CS14K6E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	208	74
MOH030X6	D	CS18K6E	1/2	7/8	20.0	1	30-1/4	42-1/2	29-3/4	290	73
MOH032X6	D	CS20K6E	1/2	7/8	20.0	1	30-1/4	42-1/2	29-3/4	275	76
MOH011L6	A	CF04K6E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	139	73
MOH014L6	A	CF06K6E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	170	73
MOH019L6	B	CF06K6E	3/8	5/8	9.0	2	28-1/4	37-3/4	17-1/4	200	69
MOH025L6	B	CF09K6E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	222	76
MOH031L6	C	CF12K6E	1/2	7/8	14.0	2	28-1/4	37-3/4	19-3/4	223	77
MOH005D6	A	RST45C1E	3/8	1/2	5.5	1	28-1/4	23-3/4	17-1/4	135	68
MOH009D6	A	RST64C1E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	144	68
MOH010D6	A	RST70C1E	3/8	5/8	5.5	1	28-1/4	23-3/4	17-1/4	138	68
MOH015D6	B	CS10K6E	3/8	5/8	9.0	2	28-1/4	37-3/4	17-1/4	193	71
MOH025D6	B	CS14K6E	3/8	7/8	9.0	2	28-1/4	37-3/4	17-1/4	208	74
MOH032D6	D	CS20K6E	1/2	7/8	20.0	1	30-1/4	42-1/2	29-3/4	275	76

NOTES:
++ = See Dimensional Drawings for details
† = Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA for 40 feet, deduct 12 dBA for 80 feet, deduct 18 dBA. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.

AWEF Values
Medium/High Temperature Condensing Units-Cooler Application

Model	Indoor R404A/R507A	Indoor R407A/F	Indoor R407C	Indoor R448A/R449A	Outdoor/IntelliGen™/Beacon II™ R404A/R507A	Outdoor/IntelliGen™/Beacon II™ R407A/F	Outdoor/IntelliGen™/Beacon II™ R407C	Outdoor/IntelliGen™/Beacon II™ R448A/R449A
MOH005X6	4.86	-	4.95	4.87	6.50	-	6.12	6.42
MOH008X6	5.02	-	4.97	4.94	7.83	-	6.35	7.59
MOH009X6	4.57	-	4.90	4.54	5.97	-	6.62	6.14
MOH010X6	5.36	-	4.83	4.93	7.55	-	6.94	6.82
MOH015X6	5.60	-	-	-	8.30	-	-	-
MOH020X6	5.59	-	-	-	8.41	-	-	-
MOH025X6	5.37	-	-	-	8.18	-	-	-
MOH030X6	6.20	-	-	-	9.01	-	-	-
MOH032X6	6.11	-	-	-	8.90	-	-	-
MOH005H6	4.86	-	-	-	6.50	-	-	-
MOH009H6	4.57	-	-	-	5.97	-	-	-
MOH010H6	5.36	-	-	-	7.55	-	-	-
MOH015H6	5.60	-	-	-	8.30	-	-	-
MOH025H6	5.37	-	-	-	8.18	-	-	-
MOH032H6	6.11	-	-	-	8.90	-	-	-

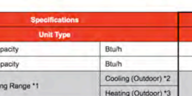
NOTES:
These refrigeration systems are designed and certified for use in walk-in cooler applications.
- = Compressor is not rated for this refrigerant

10

HEAT PUMPS

One CMY-R300NCBK Twinning Kit)

Job Name:
System Reference: Date:



OUTDOOR VRF HEAT PUMP WITH HEAT RECOVERY SYSTEM

UNIT OPTION
Standard Model TURYE3363BN40AN
Seacoast Model TURYE3363BN40AB

ACCESSORIES
Twinning Kit (required) CMY-R300NCBK
Joint Kit .... for details see Pipe Accessories Submittal
BC Controller (required) .... for details see BC Controller Submittals
Low Ambient Kit .... for details see Low Ambient Kit Submittal
Snow/Hail Guards Kit .... for details see Snow/Hail Guards Kit Submittal
Panel Heater Kit .... for details see Panel Heater Kit Submittal

Specifications / Unit Type		System TURYE3363BN40A(N/B)	Module 1 TURYE1683AN40A(N/B)	Module 2 TURYE1683AN40A(N/B)
Nominal Cooling Capacity	Btu/h	336,000	168,000	168,000
Nominal Heating Capacity	Btu/h	378,000	188,000	188,000
Guaranteed Operating Range *1	Cooling (Outdoor) *2	Refer to Module Data	23~126°F (-5~52°C)	
	Heating (Outdoor) *3		-13~60°F (-25~15.5°C)	
Extended Operating Range *4	Heating (Outdoor)		-25~60°F (-31.5~15.5°C)	
External Dimensions (H x W x D)	In. (mm)	Refer to Module Data	71-5/8 x 68-29/32 x 29-5/32 (1,818 x 1,750 x 740)	71-5/8 x 68-29/32 x 29-5/32 (1,818 x 1,750 x 740)
Net Weight	Lbs. (kg)	1554 (704)	777 (352)	777 (352)
External Finish		Refer to Module Data	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>	
Electrical Power Requirements	Voltage, Phase, Hertz	Refer to Module Data	3-phase 3-wire 208-230 V ±10% 60 Hz	
Minimum Circuit Ampacity (MCA, 208/230V)	A		57/53	57/53
Maximum Overcurrent Protection (MOP, 208/230V)	A		90/80	90/80
Recommended Fuse Size (208/230V)	A		70/70	70/70
Recommended Minimum Wire Size (208/230V)	AWG (mm)		4 (21.2) / 4 (21.2)	4 (21.2) / 4 (21.2)
Short-circuit Current Rating (SCCR)	kA		5	5
Piping Diameter (Brazed) (In. / mm)	Liquid (High Pressure)	1-1/8 (28.58) Brazed	Refer to System Data	
	Gas (Low Pressure)	1-5/8 (41.28) Brazed		
Max. Total Refrigerant Line Length	Ft.	3,936		
Max. Refrigerant Line Length (Between ODU & IDU)	Ft.	541		
Max. Control Wiring Length	Ft.	1,640		
Indoor Unit	Total Capacity	50~150% of outdoor unit capacity	Refer to System Data	
	Model / Quantity	P05~P96/2~50		
Sound Pressure Levels	dB(A)	65.5/69.5	Refer to System Data	
Sound Power Levels	dB(A)	84.0/88.5		
Fan: Type x Quantity		Refer to Module Data	Propeller fan x 2	Propeller fan x 2
Fan: Airflow Rate	CFM		14,850	14,850
Fan: External Static Pressure	In. WG		Selectable; 0, 0.12, 0.24, 0.32 in.WG; factory set to 0 in.WG	
Compressor Operating Range		7.5% to 100%	Refer to System Data	
Compressor Type x Quantity		Refer to Module Data	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
Refrigerant		Refer to Module Data	R410A 23 lbs + 12 oz (10.8 kg)	R410A 23 lbs + 12 oz (10.8 kg)
Protection Devices	High Pressure	Refer to Module Data	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter Circuit (Comp. / Fan)		Over-heat protection, Over-current protection	
	Fan Motor		Over-current protection	
AHRI Ratings (Ducted/Non-Ducted)	EER	10.5 / 10.3	Refer to System Data	
	IEER	22.5 / 24.9		
	COP	3.20 / 3.29		
	SCHE	20.4 / 23.4		

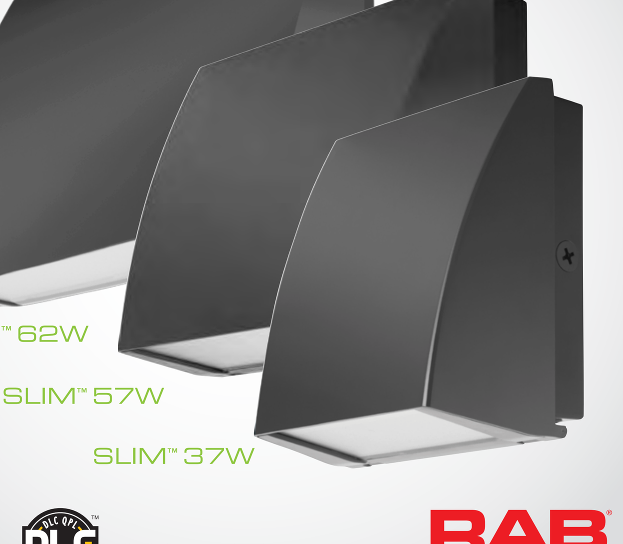
NOTES:
Nominal cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)
Nominal heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)
** Each individual module requires a separate electrical connection. Refer to electrical data for each individual module.

1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region
2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal
3. When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating
4. Unit will continue to operate in extended operating range, but capacity is not guaranteed

EXTERIOR LIGHT FIXTURE

Replace traditional wallpacks with SLIM™ LED.

Same footprint. Better performance.



DLC QPL LISTED PREMIUM — DLC QPL LISTED

Visit rabweb.com to see which models are DLC or DLC Premium listed.

RAB LIGHTING
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SLIM™

5 YEAR WARRANTY — NO COMPROMISE

- Covers footprint of most traditional wallpacks
- 37W replaces 200W MH; 57W replaces 250W MH; 62W replaces 320W MH
- Easy installation with hinged access, bubble level and multiple conduit entries
- Ultra-high efficiency, up to 115 lm/W
- Available as cutoffs or full cutoffs
- Tight-lock gasket keeps elements out
- 100,000-Hour LED lifespan

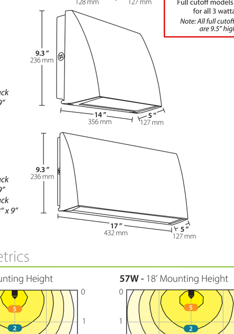
ida — Full Cutoff Models Only
IP66 RATING

Dimensions and weight

SLIM™ 37W
Weight: 7.5 lbs
RAB WP1 wallpack measures 8.5" x 8.6"

SLIM™ 57W
Weight: 11 lbs
RAB WP2 wallpack measures 14" x 9"

SLIM™ 62W
Weight: 13 lbs
RAB WP3 wallpack measures 17" x 9"
RAB WP4 wallpack measures 17 1/8" x 9"



Full cutoff models available for all 3 wattages
Note: All full cutoff models are 9.5" high.

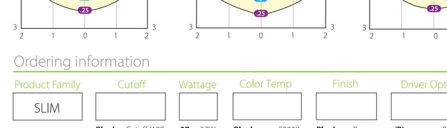
Specifications

UL: Suitable for wet locations. Wall mount only.
LEDs: Long-life, high-efficiency, micro-power, surface mount LEDs; binned and mixed for uniform light output and color.
Lifespan: 100,000-hour LED lifespan based on IES LM-80 results & TM-21 calculations
Drivers: Constant Current, Class 2, 100-277V and 480V, 50/60HZ
37W: : 0.6A,
57W: Constant Current, Class 2, 100-277V and 480V, 50/60Hz, 100-277VAC: 0.8A,
62W: Constant Current, Class 2, 100-277V and 480V, 50/60Hz, 100-277VAC: 0.6A,

	37W	57W	62W
5000K Color Temperature			
Nominal Watts	37W	57W	62W
Output Lumens (cutoff models)	3905	5579	6395
Lumens per Watt (cutoff models)	111	115	106
Color Accuracy (CRI)	73	73	73
4000K Color Temperature			
Nominal Watts	37W	57W	62W
Output Lumens (cutoff models)	3873	5422	6215
Lumens per Watt (cutoff models)	112	114	106
Color Accuracy (CRI)	73	73	73
3000K Color Temperature			
Nominal Watts	37W	57W	62W
Output Lumens (cutoff models)	3657	4977	6145
Lumens per Watt (cutoff models)	104	100	108
Color Accuracy (CRI)	71	72	72

Bi-Level Operation (Optional): Allows 50% and 100% output modes
Cold Weather Starting: Minimum starting temperature is -40°F / -40°C
Thermal Management: Superior thermal management with internal Air-Flow fins
Housing: Precision die-cast aluminum housing and door frame
Mounting: Die-cast back box with four (4) conduit entry points and knockout pattern for junction box or direct wall mounting. Hinged housing for hands-free installation.
Cutoff Options: Full Cutoff (0°) or Cutoff (10°)
Lens: Microprismatic diffusion lens for smooth and even light distribution
Reflector: Specular thermoplastic
Gaskets: High-temperature silicone
Finish: Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contain no VOC or toxic heavy metals.
Color Stability: LED color temperature warrantied not to shift more than 200K in CCT in 5 years
Color Uniformity: RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.
Green Technology: Mercury and UV free, and RoHS compliant. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.
IESNA LM-79 & LM-80 Testing: RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

Photometrics



Grid Scale: Multiples of Mounting Height
Values Shown in Footcandles
Photometric Reports RAB02437, RAB02604 and RAB02946MOD50

Ordering information

Product Family	Cutoff	Wattage	Color Temp	Finish	Driver Options	Photocell Options
SLIM	Blank Cutoff (10°) FC Full Cutoff (0°)	37 37W 57 57W 62 62W	Blank 5000K N 4000K Y 3000K	Blank Bronze W White	/BL Bi-Level /480 480V	/PC 120V Photocell /PC2 277V Photocell /PCS 120V Swivel Photocell /PCS2 277V Swivel Photocell /PCS4 480V Swivel Photocell

GENERATOR

Specification Sheet

Cummins

Diesel Generator Set QSL9-G7 Series Engine

250 kW - 300 kW Standby

Description

Cummins® commercial generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary Standby and Prime Power applications.

Features

Cummins heavy-duty engine - Rugged 4-cycle, industrial diesel delivers reliable power, low emissions and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® electronic control is standard equipment and provides total genset system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, AmpSentry™ protection, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

Cooling system - Standard cooling package provides reliable running at the rated power level.

Enclosures - Optional weather protective and sound attenuated enclosures are available.

Fuel tanks - Dual wall sub-base fuel tanks are also available.

NFPA - The genset accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor network.

Model	Standby rating 60 Hz kW (kVA)	Standby rating 50 Hz kW (kVA)	Prime rating 60 Hz kW (kVA)	Prime rating 50 Hz kW (kVA)	Continuous rating 60 Hz kW (kVA)	Continuous rating 50 Hz kW (kVA)	Data sheets 60 Hz	Data sheets 50 Hz
DQDAA	250 (313)		225 (281)				D-3442	
DQDAB	275 (344)		250 (313)				D-3443	
DQDAC	300 (375)		270 (338)				D-3444	

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Generator set data sheet

Model:	DQDAA
Frequency:	60 Hz
Fuel type:	Diesel
kW rating:	250 Standby 225 Prime
Emissions level:	EPA NSPS Stationary Emergency Tier 3

Exhaust emission data sheet:	EDS-1073
Exhaust emission compliance sheet:	EPA-1101
Sound performance data sheet:	MSP-1026
Cooling performance data sheet:	MCP-163
Prototype test summary data sheet:	PTS-164
Standard set-mounted radiator cooling outline:	A048R355
Optional set-mounted radiator cooling outline with seismic feature codes L228-2 (IBC) or L225-2 (OSHPD):	A041F591

Fuel consumption	Standby kW (kVA)				Prime kW (kVA)				Continuous kW (kVA)
Ratings	250 (313)				225 (281)				
Load	1/4	1/2	3/4	Full	1/4	1/2	3/4	Full	Full
US gph	6.0	10.5	15.1	19.6	5.5	9.5	13.6	17.7	
L/hr	22.5	39.7	56.9	74.2	20.7	36.1	51.5	67.0	

Engine	Standby rating	Prime rating	Continuous rating
Engine manufacturer	Cummins Inc.		
Engine model	QSL9-G7		
Configuration	Cast iron, in-line 6 cylinder		
Aspiration	Turbocharged and after-cooled		
Gross engine power output, kW_m (bhp)	346 (464)	312 (419)	
BMEP at set rated load, kPa (psi)	2606 (378)	2351 (341)	
Bore, mm (in.)	114.0 (4.49)		
Stroke, mm (in.)	145 (5.69)		
Rated speed, rpm	1800		
Piston speed, m/s (ft/min)	8.7 (1707.0)		
Compression ratio	16.1:1		
Lube oil capacity, L (qt)	30.0 (31.7)		
Overspeed limit, rpm	2070 ± 50		
Regenerative power, kW	35.00		

Fuel flow		
Maximum fuel flow, L/hr (US gph)	138.1 (36.5)	
Maximum fuel inlet restriction, mm Hg (in Hg)	152.4 (6.0)	
Maximum return restriction, mm Hg (in Hg)	254.0 (10.0)	

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Generator Set Options and Accessories

Engine
- 120/240 V 1500 W coolant heater
- 120/240 V 150 W lube oil heater
- Heavy duty air cleaner
- Engine oil temperature

Control panel
- 120/240 V 100 W control anti-condensation heater
- Exhaust pyrometer
- Ground fault indication
- Remote fault signal package
- Run relay package
- Paralleling configuration

Alternator
- 105 °C rise
- 125 °C rise
- 120/240 V 100 W anti-condensation heater
- PMG excitation
- Single phase

Exhaust system
- Genset mounted muffler
- Heavy duty exhaust elbow
- Slip on exhaust connection
- NPT exhaust connection

Fuel system
- 1022 L (270 gal) sub-base tank
- 1136 L (300 gal) sub-base tank
- 1514 L (400 gal) sub-base tank
- 1893 L (500 gal) sub-base tank
- 2271 L (600 gal) sub-base tank
- 2498 L (660 gal) sub-base tank
- 2725 L (720 gal) sub-base tank
- 5565 L (1470 gal) sub-base tank

Generator set
- AC entrance box
- Battery
- Battery charger
- Export box packaging
- UL 2200 Listed
- Main line circuit breaker
- PowerCommand network
- Communications Module (NCM)
- Remote annunciator panel
- Spring isolators
- Enclosure: aluminum, steel, weather protective or sound attenuated
- 2 year Standby power warranty
- 2 year Prime power warranty
- 5 year Basic power warranty
- 10 year major components warranty

Note: Some options may not be available on all models - consult factory for availability.

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Generator Set Specifications

Governor regulation class	ISO 8528 Part 1 Class G3
Voltage regulation, no load to full load	± 0.5%
Random voltage variation	± 0.5%
Frequency regulation	Isochronous
Random frequency variation	± 0.5%
Radio frequency emissions compliance	IEC 801.2 through IEC 801.5; MIL-STD-461C, Part 9

Engine Specifications

Bore	114.0 mm (4.49 in)
Stroke	145 mm (5.69 in)
Displacement	8.9 L (543 in^3)
Configuration	Cast iron, in-line 6 cylinder
Battery capacity	750 amps minimum at ambient temperature of -18 °C (-0.4 °F) and above
Battery charging alternator	70 amps
Starting voltage	24 volt, negative ground
Fuel system	Direct injection: number 2 diesel fuel, fuel filter, automatic electric fuel shutoff
Fuel filter	Dual element with water separator
Air cleaner type	Normal duty
Lube oil filter type(s)	Single spin-on, combination full flow and bypass filters
Standard cooling system	High ambient radiator

Alternator Specifications

Design	Brushless, 4 pole, drip proof revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible discs
Insulation system	Class H
Standard temperature rise	125 °C Standby, 105 °C Prime
Exciter type	Permanent Magnet Generator (PMG)
Phase rotation	A (U), B (V), C (W)
Alternator cooling	Direct drive centrifugal blower
AC waveform Total Harmonic Distortion (THDV)	< 5% no load to full linear load, < 3% for any single harmonic
Telephone Influence Factor (TIF)	< 50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	< 3

Available Voltages

60 Hz 3-phase Reconnectable		60 Hz 3-phase Non-Reconnectable	50 Hz 3-phase Reconnectable	50 Hz 3-phase Non-Reconnectable
• 110/90 • 139/240 • 240/416	• 120/208 • 120/240 • 254/440	• 277/480 • 347/600		

Note: Consult factory for other voltages.

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Air	Standby rating	Prime rating	Continuous rating
Combustion air, m^3/min (scfm)	22.3 (787)	20.8 (733)	
Maximum air cleaner restriction, kPa (in H_2O)	6.2 (25.0)		
Alternator cooling air, m^3/min (cfm)	59.4 (2100.0)		

Exhaust	Standby rating	Prime rating	Continuous rating
Exhaust flow at set rated load, m^3/min (cfm)	54.6 (1927)	50.8 (1796)	
Exhaust temperature, °C (°F)	525 (977)	495 (923)	
Maximum back pressure, kPa (in H_2O)	10.2 (41.0)		

Standard set-mounted radiator cooling (non-seismic)			
Ambient design, °C (°F)	50 (122)		
Fan load, kW_m (HP)	26.09 (35)		
Coolant capacity (with radiator), L (US gal)	34.29 (9.06)		
Cooling system air flow, m^3/min (scfm)	427.58 (15100)		
Total heat rejection, MJ/min (Btu/min)	8.93 (8467.0)	8.55 (8104.0)	
Maximum cooling air flow static restriction, kPa (in H_2O)	0.12 (0.5)		

Optional set-mounted radiator cooling (with seismic feature codes L228-2 (IBC) and/or L225-2 (OSHPD)			
Ambient design, °C (°F)	50 (122)		
Fan load, kW_m (HP)	27.8 (37.2)		
Coolant capacity (with radiator), L (US gal)	30.3 (8.0)		
Cooling system air flow, m^3/min (scfm)	568.1 (20075.0)		
Total heat rejection, MJ/min (Btu/min)	8.93 (8467.0)	8.55 (8104.0)	
Maximum cooling air flow static restriction, kPa (in H_2O)	0.12 (0.5)		

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Cummins

Sound data

250DQDAA 60 Hz

Sound pressure level @ 7 meters, dB(A)

See notes 1-8 listed below

Configuration		1	2	3	4	5	6	7	8	Average
Standard – unhoused	Infinite exhaust	86	90	89	93	89	95	90	90	91
F183 – skin tight	Mounted muffler	88	91	91	94	90	95	91	91	92
F201 – quiet site II first stage	Mounted muffler	80	81	83	91	91	91	83	83	88
F202 – quiet site II second stage	Mounted muffler	72	74	73	72	73	72	69	71	72

(Columns 1–8: Measurement location number)

Sound power level, dB(A)

See notes 2-6, 9, 10 listed below

Configuration		63	125	250	500	1000	2000	4000	8000	Overall sound power level
Standard – unhoused	Infinite exhaust	79	94	108	111	113	111	107	107	118
F183 – skin tight	Mounted muffler	95	104	112	113	114	112	108	103	120
F201 – quiet site II first stage	Mounted muffler	104	111	108	109	110	108	103	97	117
F202 – quiet site II second stage	Mounted muffler	84	94	93	96	98	97	93	87	103

(Columns 63–8000: Octave band center frequency (Hz))

Exhaust sound pressure level @ 1 meter, dB(A)

Open exhaust (no muffler) @ rated load	63	125	250	500	1000	2000	4000	8000	Sound pressure level
	98	109	118	121	123	127	126	124	131.9

(Columns 63–8000: Octave band center frequency (Hz))

Note:
1. Position 1 faces the engine front. The positions proceed around the generator set in a counter-clockwise direction in 45° increments. All positions are at 7 m (23 ft) from the surface of the generator set and 1.2 m (48 in.) from floor level.
2. Sound levels are subject to instrumentation, measurement, installation and manufacturing variability.
3. Sound data with remote-cooled generator sets are based on rated loads without cooling fan noise.
4. Sound levels for aluminum enclosures are approximately 2 dB(A)s higher than listed sound levels for steel enclosures.
5. Sound data for generator set with infinite exhaust do not include exhaust noise.
6. Data is based on full rated load with standard radiator-cooling fan package.
7. Sound pressure levels are measured per ANSI S1.13 and ANSI S12.18, as applicable.
8. Reference sound pressure is 20 μPa.
9. Sound power levels per ISO 3744 and ISO 8528-10, as applicable.
10. Reference power = 1 pw (10^{-12} W).
11. Exhaust sound power levels are per ISO 6798, as applicable.

Cummins Inc. Data and specification subject to change without notice MSP-1026 (10/17)

andrulaitis+mixon
2040 ALAMEDA PADRE SERRA SUITE 107
SANTA BARBARA CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

3561 Foothill Road
Carpinteria, CA

LICENSE

LICENSED ARCHITECT — Kent B. Mixon — No. C 27001 — 01.31.23 Renewal Date — STATE OF CALIFORNIA

JOB NUMBER
18.012

PERMIT NUMBER

CONTENTS

TDM
NOTES AND PLAN

SUBMITTALS

DATE	TYPE

ISSUE DATE
05.21.2021

REVISIONS

NO.	DATE	TYPE

G-002

CHILLERS

TRANE

Job Name: Enerdes Carp Grow
Prepared By:

Unit Tag: 40T PP and HR
Quantity: 1

Unit Overview

Chiller Model	CGAM
Unit Nominal Tonnage	40 tons
Unit Type	Extra efficiency
Refrigeration Capacity	38.83 tons
Cooling Efficiency	10.39 EER (Btu/W-h)
IPLV.IP	13.74 EER (Btu/W-h)
NPLV.IP	13.74 EER (Btu/W-h)
Elevation	0.000 ft
Unit Frequency	60. hertz
Unit Voltage	460. volt 3 phases
Refrigerant Type	R410A
Number of compressor	4
Number of circuits	2
Number of capacity steps	4
Agency Listing	UL/CUL

Evaporator Information

Evaporator Application					
Std cooling					
Fluid Temperatures		Flow Rate			
Evaporator Leaving	44.00 F	Design Flow	92.90 gpm	Freeze protection	With freeze protection
Evaporator Entering	53.99 F	Min Flow	45.40 gpm	Fouling factor	0.0001000 hr-sq ft-deg F/ Btu
Fluid Properties		Fluid Pressure Drop			
Fluid Type	Water	Total PD evap+strainer	20.5 ft H2O	Flow switch set point	Flow switch set point 60 cm/sec
Freeze Point	32.00 F	Design Evap PD	7.89 psig	Water connection size	2.500 in
		Min PD	2.41 psig		

Condenser Information

Unit Application	Wide ambient	Fin Material	Complete coat		
Ambient Air Temp.	95.0 F	Total airflow	35945 cfm	Number of Fans	4
Field Purchased Evaporative Pre-Cooling	No Pre-Cooling				

Unit Electrical

Unit					RLA	LRA
Compressor Starter	Across the line	Incoming Power Line Conn. Type	Single point	Compressor A	18.60 A	142.00 A
Total Power	44.85 kW	Power Line Conn. Type	Terminal block	Compressor B	18.60 A	142.00 A
Compressor Power	39.47 kW	Short Circuit Current Option	Default	Compressor D	18.60 A	142.00 A
Fan Power	4.971 kW	Short Circuit Current Rating	5000 A	Compressor E	18.60 A	142.00 A
Total Fan FLA	3.20 A	Single Point Power MCA	108 A			
		Single Point Power MOP	125 A			

Pump Package Information

Pump type	Dual high head	Available head pressure at water connection	62.8 ft H2O
Pump size	5.000 hp	Total PD pump+evap+strainer	22.0 ft H2O
Pump nominal current	11.70 A	Expansion tank volume	5.00 gal
Pump flow control	Var speed drive	Buffer tank	With buffer storage tank
		Buffer tank volume	140.00 gal

Heat Recovery Information

Condenser heat recovery	Partial with fan control	Leaving temperature	140.00 F	Fluid flow rate	10.53 gpm
Heating capacity	6.506 tons	Entering temperature	125.00 F	Pressure drop	2.17 ft H2O
Heating efficiency	0.5102 COP (kW/kW)				

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TRANE

Job Name: Enerdes Carp Grow
Prepared By:

Unit Tag: 40T PP and HR
Quantity: 1

Physical Information

Dimensions		Weights			Refrigerant Charge	Oil Charge
Length	134 in	Operating Weight	6390 lb	Circuit 1	42.0 lb	1.74 gal
Width	88 in	Shipping Weight	5116 lb	Circuit 2	42.0 lb	1.74 gal
Height	85 in					

Unit Acoustics (A-Weighted)

	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Octave band sound power:	93 dB	86 dB	84 dB	83 dB	84 dB	81 dB	79 dB	70 dB

A-Weighted	Sound Power	Sound Pressure*	Unit Sound Package
100%	88 dBA	62 dBA	Comprehensive package

Note: In Accordance with AHRI 370　*Note: at 30 feet in free field

Warranty

Standard Warranty

Regulatory Compliance

ASHRAE 90.1

This unit complies with the efficiency requirements of ASHRAE 90.1 and CSA C743 - all versions up to 2016.

AHRI Standard 550/590

Certified in accordance with Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org

Information for LEED Projects

Refrigerant (R410A) - ckt 1	42.0 lb	ASHRAE 90.1 - all versions up to 2016
Refrigerant (R410A) - ckt 2	42.0 lb	This product meets the minimum efficiency requirements of ASHRAE Standard 90.1 and CANS/CSA C743 for all versions (which are based on AHRI standard rating conditions) and, therefore, also meets the LEED "Minimum Energy Performance" prerequisite in the Energy and Atmosphere section.
Rated Capacity (AHRI)	38.83 tons	
Rated Efficiency (AHRI)	10.39 EER (Btu/W-h)	
IPLV	13.74 EER (Btu/W-h)	The LEED Green Building Rating System™, developed by the U.S. Green Building Council, provides indepenent, third-party verification that a building project meets green building and performance measures.
Refrigeration Capacity	38.83 tons	
Cooling Efficiency	10.39 EER (Btu/W-h)	
Compress Power	39.47 kW	
Fan Motor Power	4.971 kW	

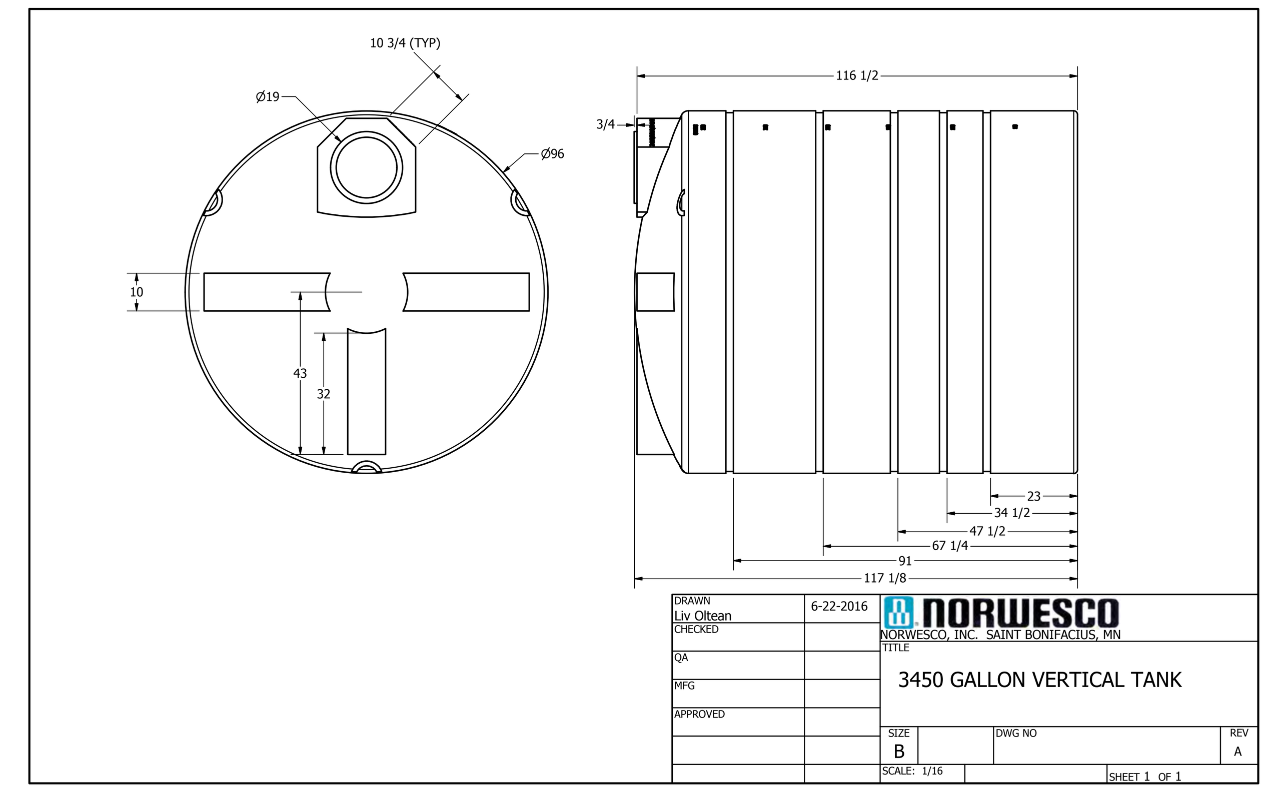
Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Heat Reclaim unit is certified when operating with heat reclaim off. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

AHRI CERTIFIED® www.ahridirectory.org Air-Cooled Water Chilling Packages AHRI Standards 550/590 and 551/591

Trane Select Assist Version Number: 243
Data Generation Date: 2/5/2021

2021-02-05 14:40:57Z　Page 2 of 16

WATER TANKS



andrulaitis+mixon

2040 ALAMEDA PADRE SERRA SUITE 107
SANTA BARBARA CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

3561 Foothill Road
Carpinteria, CA

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
05.31.23
Renewal Date
STATE OF CALIFORNIA

JOB NUMBER

18.012

PERMIT NUMBER

CONTENTS

TDM
NOTES AND PLAN

SUBMITTALS

DATE	TYPE

ISSUE DATE

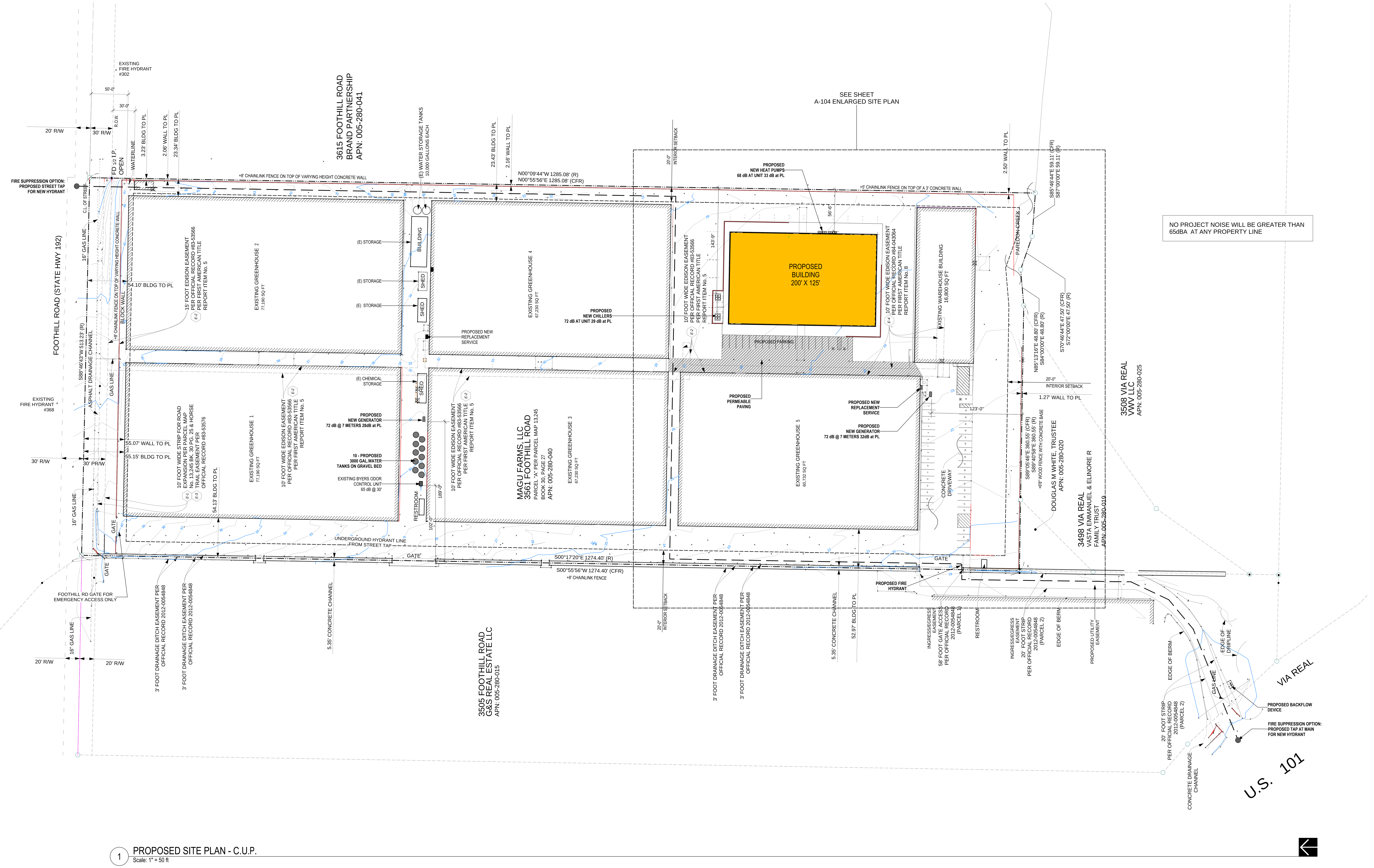
05.21.2021

REVISIONS

NO.	DATE	TYPE

G-003

andrulaitis+mixon
2040 ALAMEDA PADRE SERRA



1 PROPOSED SITE PLAN - C.U.P.
Scale: 1" = 50 ft

Proposed Project/Remodel for:
MAGU Farms, LLC - Processing Building
3561 Foothill Road
Carpinteria, CA

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
STATE OF CALIFORNIA

JOB NUMBER
18.012
PERMIT NUMBER
CONTENTS
EXISTING/PROPOSED C.U.P. SITE PLAN

SUBMITTALS

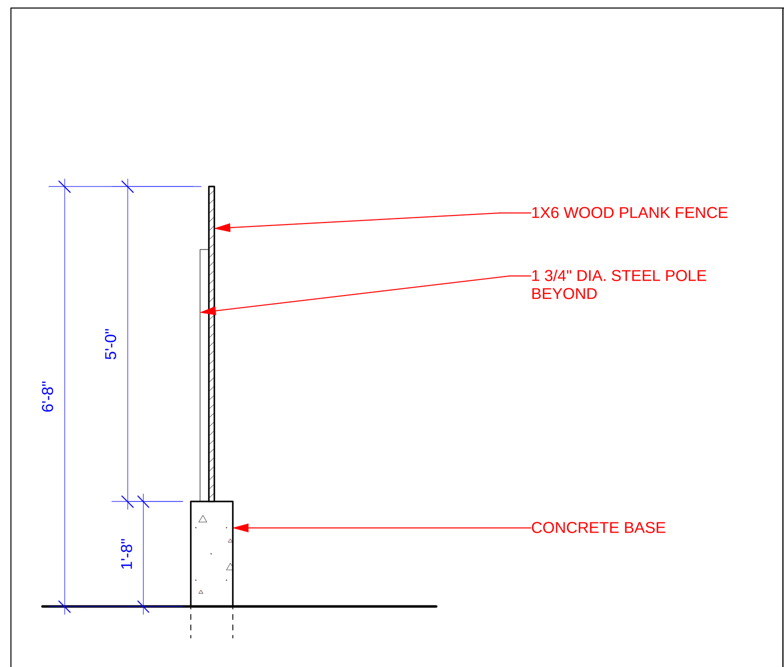
DATE	TYPE

ISSUE DATE
10.14.2021

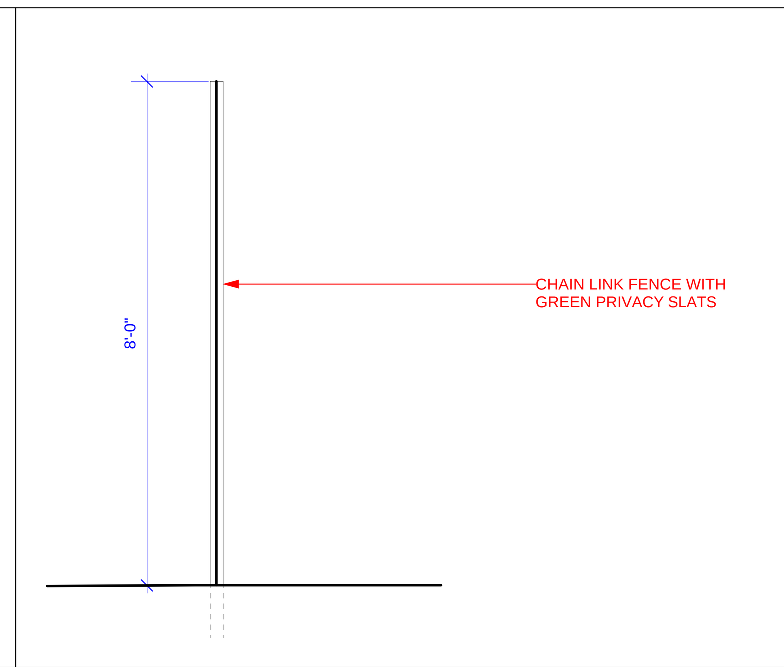
REVISIONS

NO.	DATE	TYPE

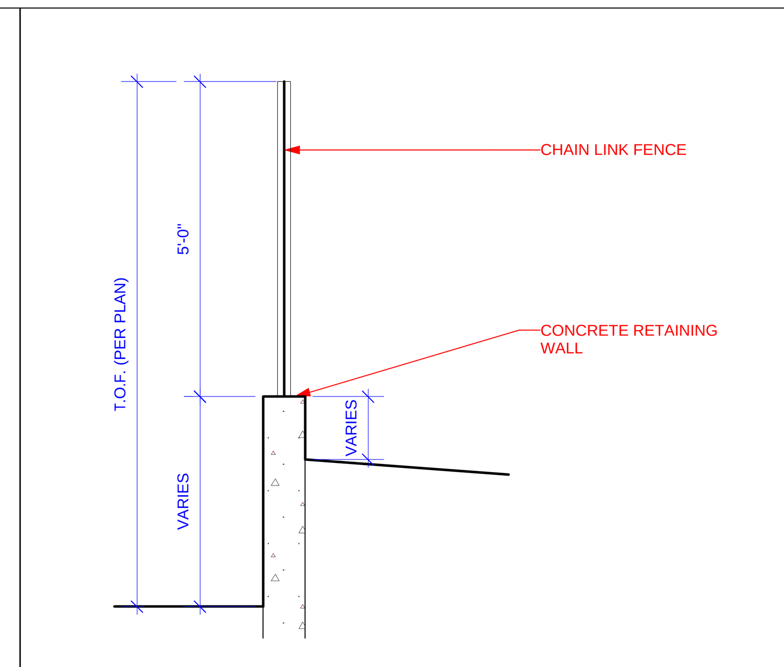
SP-101



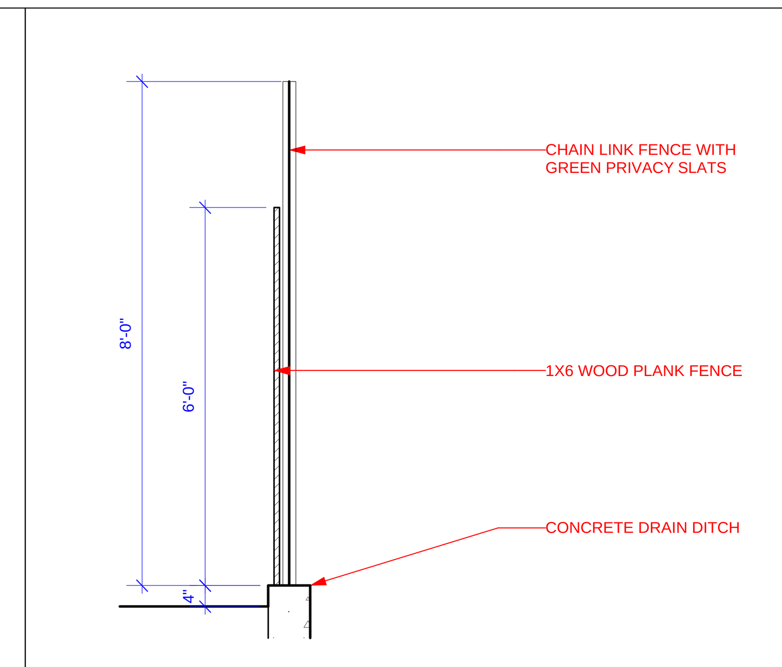
WOOD FENCE DETAIL | 1/2"=1'-0" | A



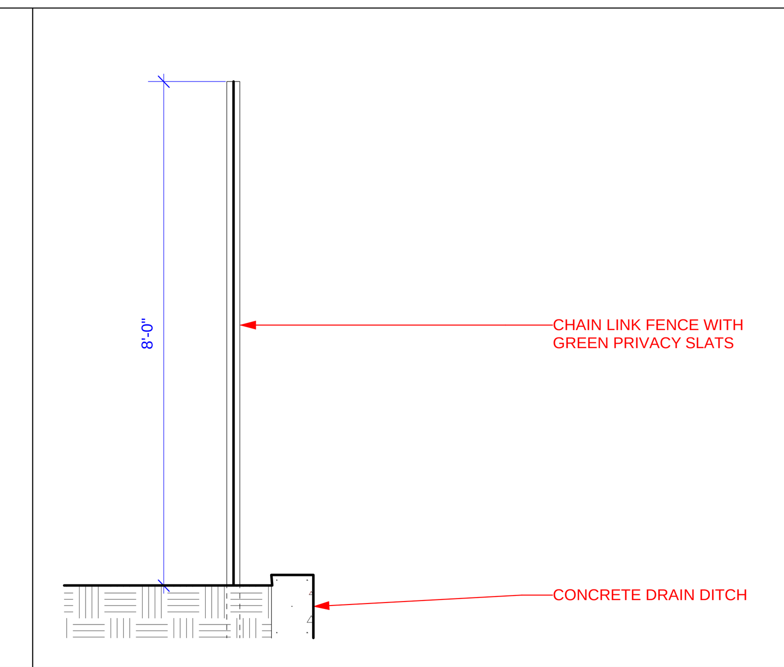
FENCE DETAIL | 1/2"=1'-0" | B



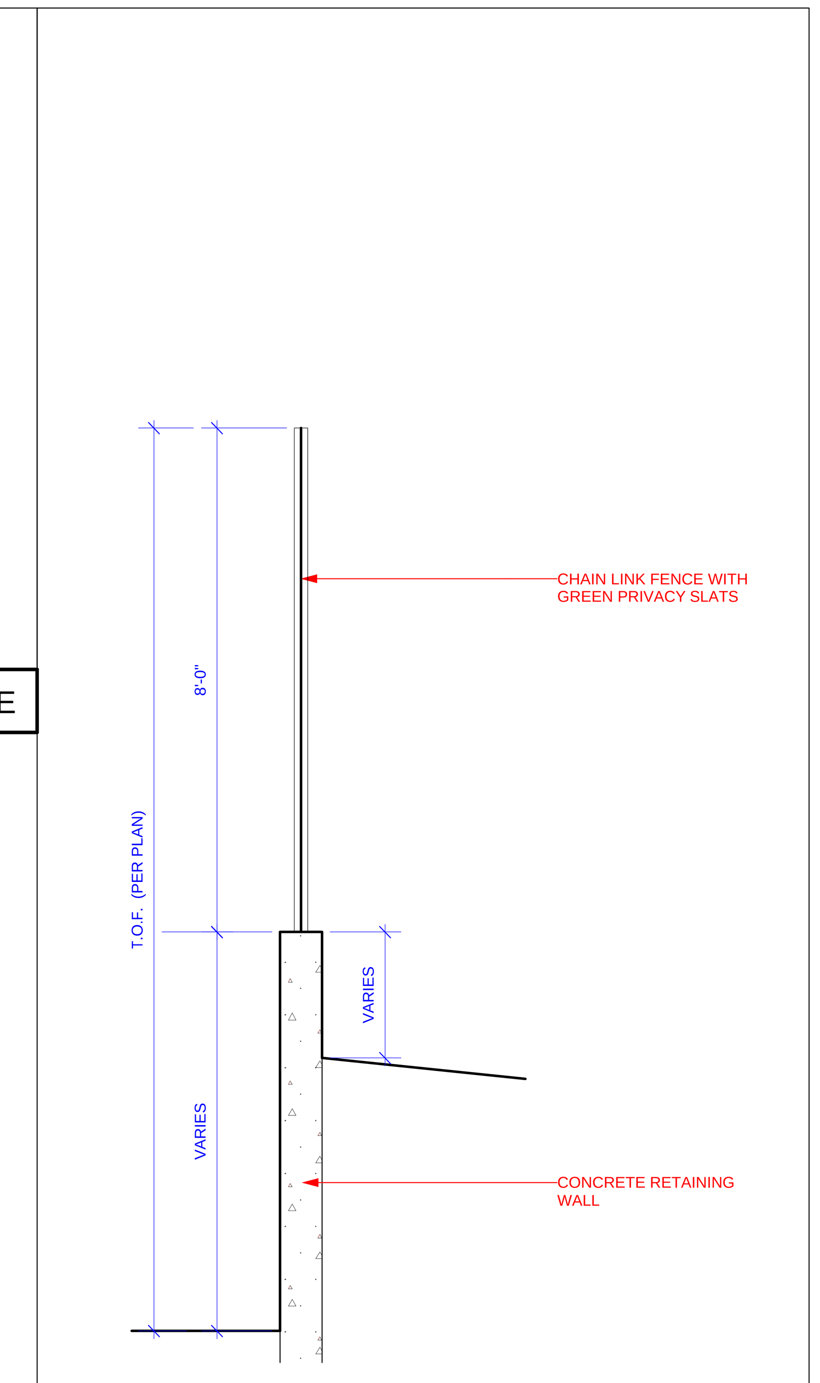
FENCE DETAIL | 1/2"=1'-0" | C



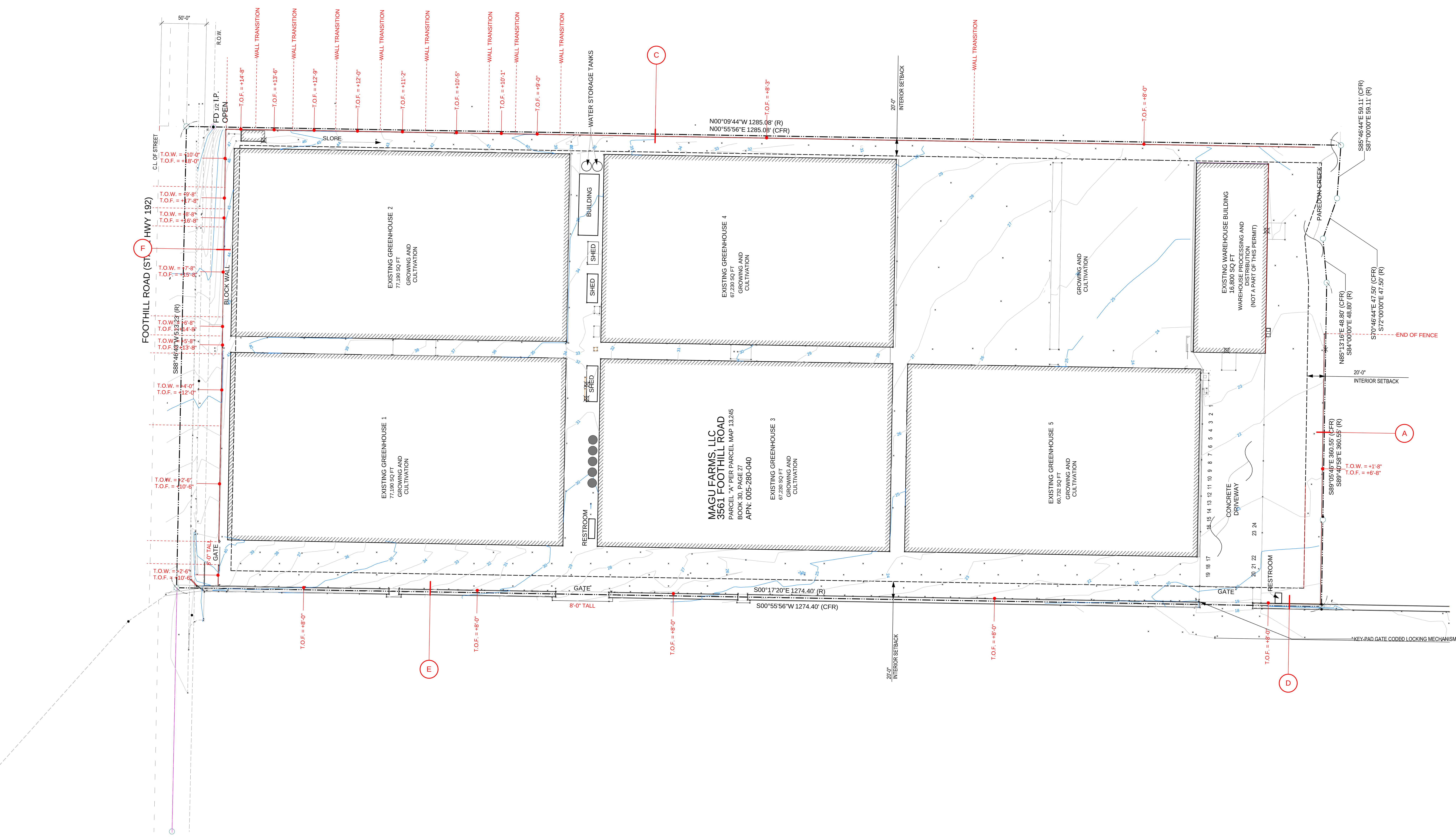
FENCE DETAIL | 1/2"=1'-0" | D



FENCE DETAIL | 1/2"=1'-0" | E



FENCE DETAIL | 1/2"=1'-0" | F



1 SITE FENCING PLAN - EXISTING
Scale: 1" = 50 ft

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2040 ALAMEDA PADRE SERRA

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building
3561 Foothill Road
Carpinteria, CA

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
01.31.23
Renewal Date
STATE OF CALIFORNIA

JOB NUMBER
18.012

PERMIT NUMBER

CONTENTS

FENCE PLAN

SUBMITTALS

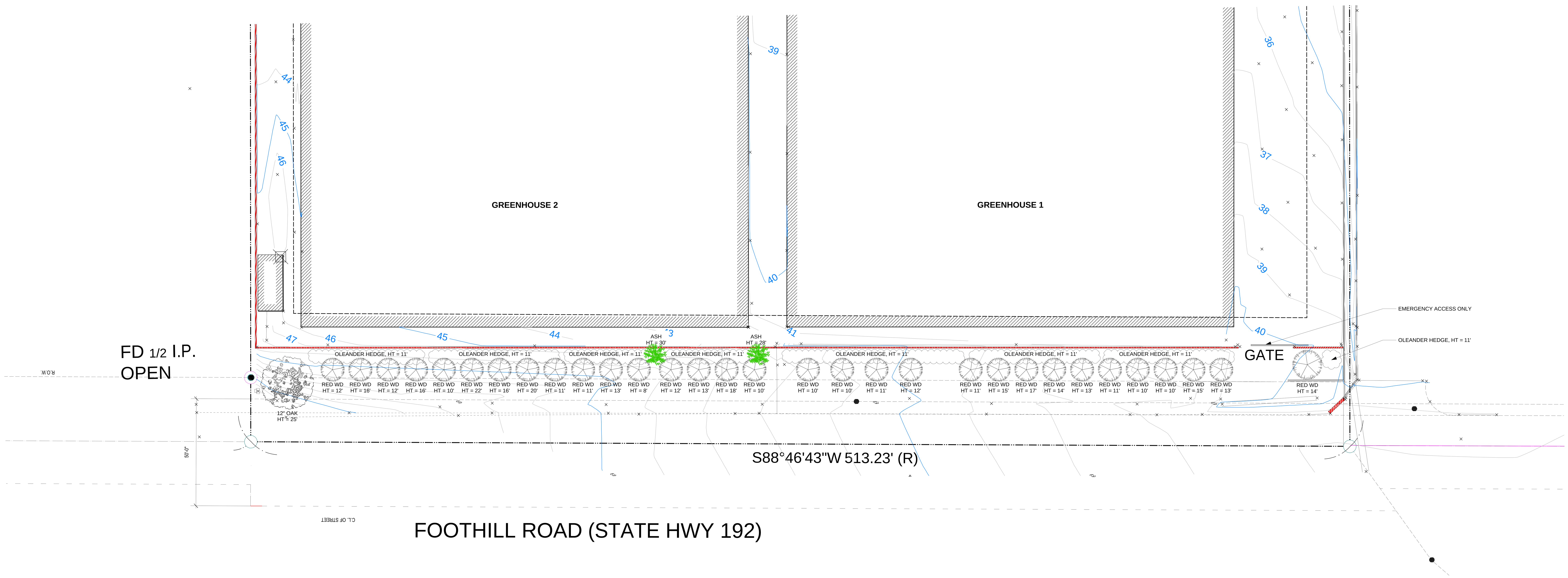
DATE	TYPE

ISSUE DATE
05.21.2021

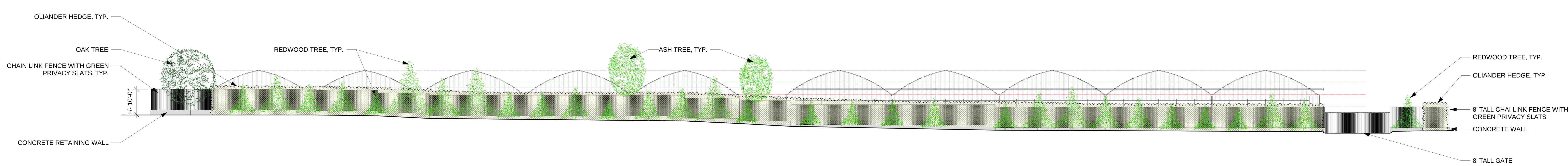
REVISIONS

NO.	DATE	TYPE

SP-102



1 SITE LANDSCAPE PLAN - EXISTING
Scale: 1" = 20 ft



2 STREET ELEVATION - EXISTNG
Scale: 1" = 20 ft

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2040 ALAMEDA PADRE SERRA

Proposed Project/Remodel for:
MAGU Farms, LLC - Processing Building
3561 Foothill Road
Carpinteria, CA

LICENSE

Kent B. Mixon
No. C 27001

JOB NUMBER
18.012

PERMIT NUMBER

CONTENTS

LANDSCAPE PLAN & ELEVATION

SUBMITTALS

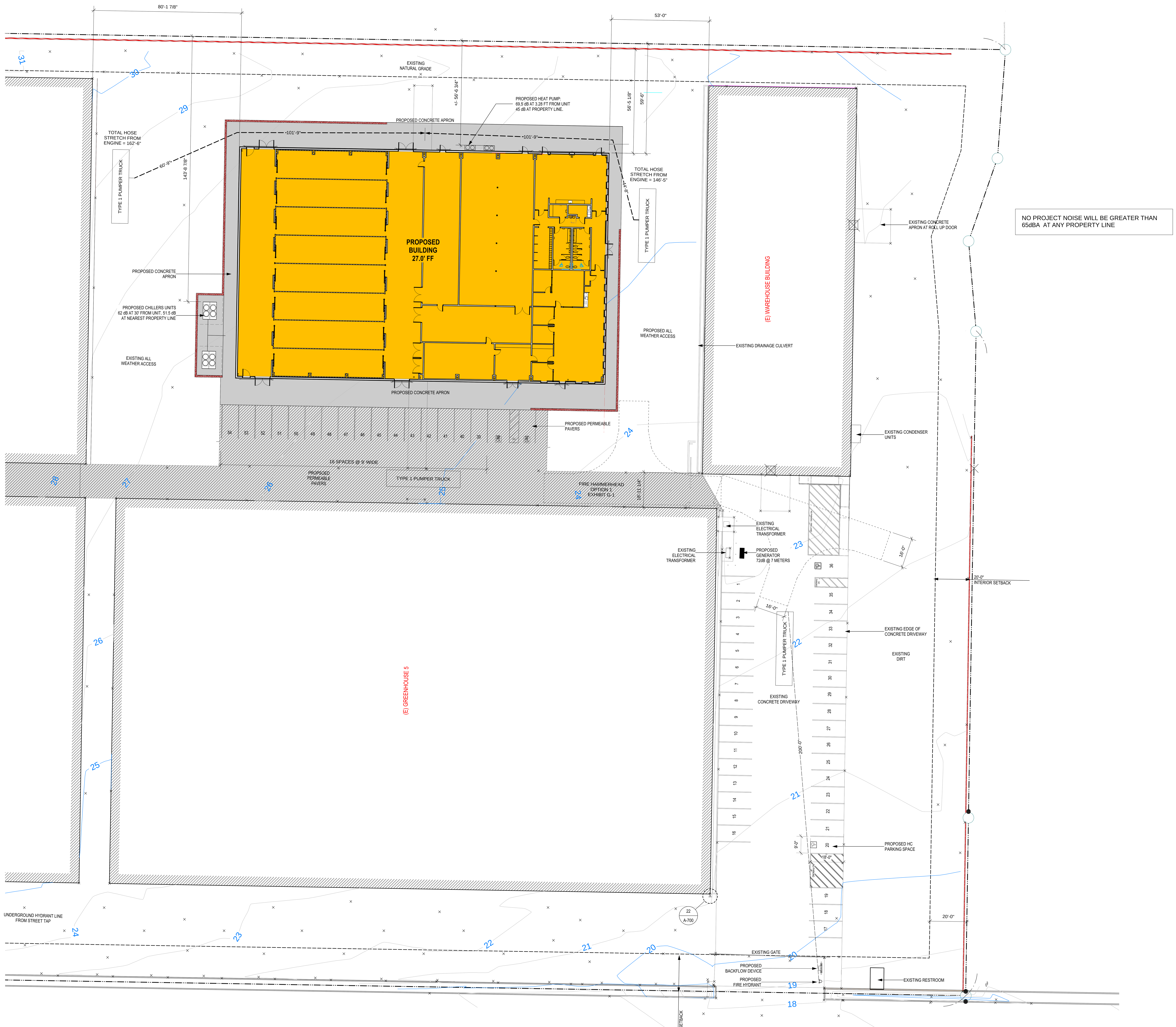
DATE	TYPE

ISSUE DATE
05.21.2021

REVISIONS

NO.	DATE	TYPE

SP-103



1 ENLARGED SITE PLAN
Scale: 1" = 20 ft

andrulaitis+mixon
2040 ALAMEDA PADRE SERRA

Proposed Project/Remodel for:
MAGU Farms, LLC - Processing Building
3561 Foothill Road
Carpinteria, CA

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
Renewal Date
STATE OF CALIFORNIA

JOB NUMBER
18.012

PERMIT NUMBER

CONTENTS

PROPOSED SITE PLAN

SUBMITTALS

DATE	TYPE

ISSUE DATE
05.21.2021

REVISIONS

NO.	DATE	TYPE

SP-104

3561 FOOTHILL RD PRELIMINARY GRADING PLAN

CARPINTERIA, CA. 93013
APN: 005-280-040

SANTA BARBARA COUNTY GRADING NOTES

CURRENT NOTES CAN BE FOUND AT THE FOLLOWING WEBSITE (HTTP://SBCOUNTYPLANNING.ORG/BUILDING/GRADING.CFM).

1. ALL GRADING SHALL CONFORM TO SANTA BARBARA COUNTY CODE CHAPTER 14 AND STANDARDS AND REQUIREMENTS PERTAINING THERETO, THESE CONSTRUCTION DRAWINGS AND THE RECOMMENDATIONS OF THE SOILS ENGINEER AND ENGINEERING GEOLOGIST.

2. CONTRACTOR TO NOTIFY THE COUNTY GRADING INSPECTOR AND SOILS LABORATORY AT LEAST 48 HOURS BEFORE START OF GRADING WORK OR ANY PRE-CONSTRUCTION MEETING.

3. CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT AND METHODS REQUIRED TO PREVENT HIS OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO ADJACENT PROPERTY, CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY DUST FROM HIS GRADING OPERATION.

4. BEFORE BEGINNING WORK REQUIRING EXPORTING OR IMPORTING OF MATERIALS, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM PUBLIC WORKS ROAD DIVISION FOR HAUL ROUTES USED AND METHODS PROVIDED TO MINIMIZE THE DEPOSIT OF SOILS ON COUNTY GRADING/ROAD INSPECTORS SHALL MONITOR THIS REQUIREMENT WITH THE CONTRACTOR.

5. THE GEOTECHNICAL ENGINEER SHALL PROVIDE OBSERVATION AND TESTING DURING GRADING OPERATIONS IN THE FIELD AND SHALL SUBMIT A FINAL REPORT STATING THAT ALL EARTH WORK WAS PROPERLY COMPLETED AND IS IN SUBSTANTIAL CONFORMANCE WITH THE REQUIREMENTS OF THE GRADING ORDINANCE.

6. AREAS TO BE GRADED SHALL BE CLEARED OF ALL VEGETATION INCLUDING ROOTS AND OTHER UNSUITABLE MATERIAL FOR A STRUCTURAL FILL, THEN SCARIFIED TO A DEPTH OF 6" PRIOR TO PLACING OF ANY FILL. CALL GRADING INSPECTOR FOR INITIAL INSPECTION.

7. A THOROUGH SEARCH SHALL BE MADE FOR ALL ABANDONED MAN-MADE FACILITIES SUCH AS SEPTIC TANK SYSTEMS, FUEL OR WATER STORAGE TANKS, AND PIPELINES OR CONDUITS. ANY SUCH FACILITIES ENCOUNTERED SHALL BE REMOVED AND THE DEPRESSION PROPERLY FILLED AND COMPACTED UNDER OBSERVATION OF THE GEOTECHNICAL ENGINEER.

8. AREAS WITH EXISTING SLOPES WHICH ARE TO RECEIVE FILL MATERIAL SHALL BE KEYED AND BENCHED. THE DESIGN AND INSTALLATION OF THE KEYWAY SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATION OR PER COUNTY STANDARD DETAIL NO. G-13.

9. FILL MATERIAL SHALL BE SPREAD IN LIFTS NOT EXCEEDING 6" IN COMPACTED THICKNESS, MOISTENED OR DRIED AS NECESSARY TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED BY AN APPROVED METHOD. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY 1957 ASTM D - 1557 - 91 MODIFIED PROCTOR (AASHO) TEST OR SIMILAR APPROVED METHODS. SOME FILL AREAS MAY REQUIRE COMPACTION TO A GREATER DENSITY IF CALLED FOR IN THE CONSTRUCTION DOCUMENTS. SOIL TESTS SHALL BE CONDUCTED AT NOT LESS THAN ONE TEST FOR EACH 18" OF FILL AND/OR FOR EACH 500 CUBIC YARDS OF FILL PLACED.

10. CUT SLOPES SHALL NOT EXCEED A GRADE OF 1 ½ HORIZONTAL TO 1 VERTICAL. FILL AND COMBINATION FILL AND CUT SLOPES SHALL NOT EXCEED 2 HORIZONTAL TO 1 VERTICAL. SLOPES OVER THREE FEET IN VERTICAL HEIGHT SHALL BE PLANTED WITH APPROVED PERENNIAL OR TREATED WITH EQUALLY APPROVED EROSION CONTROL MEASURES PRIOR TO FINAL INSPECTION.

11. SURFACE DRAINAGE SHALL BE PROVIDED AT A MINIMUM OF 5% FOR 10 FEET AWAY FROM THE FOUNDATION LINE OR ANY STRUCTURE.

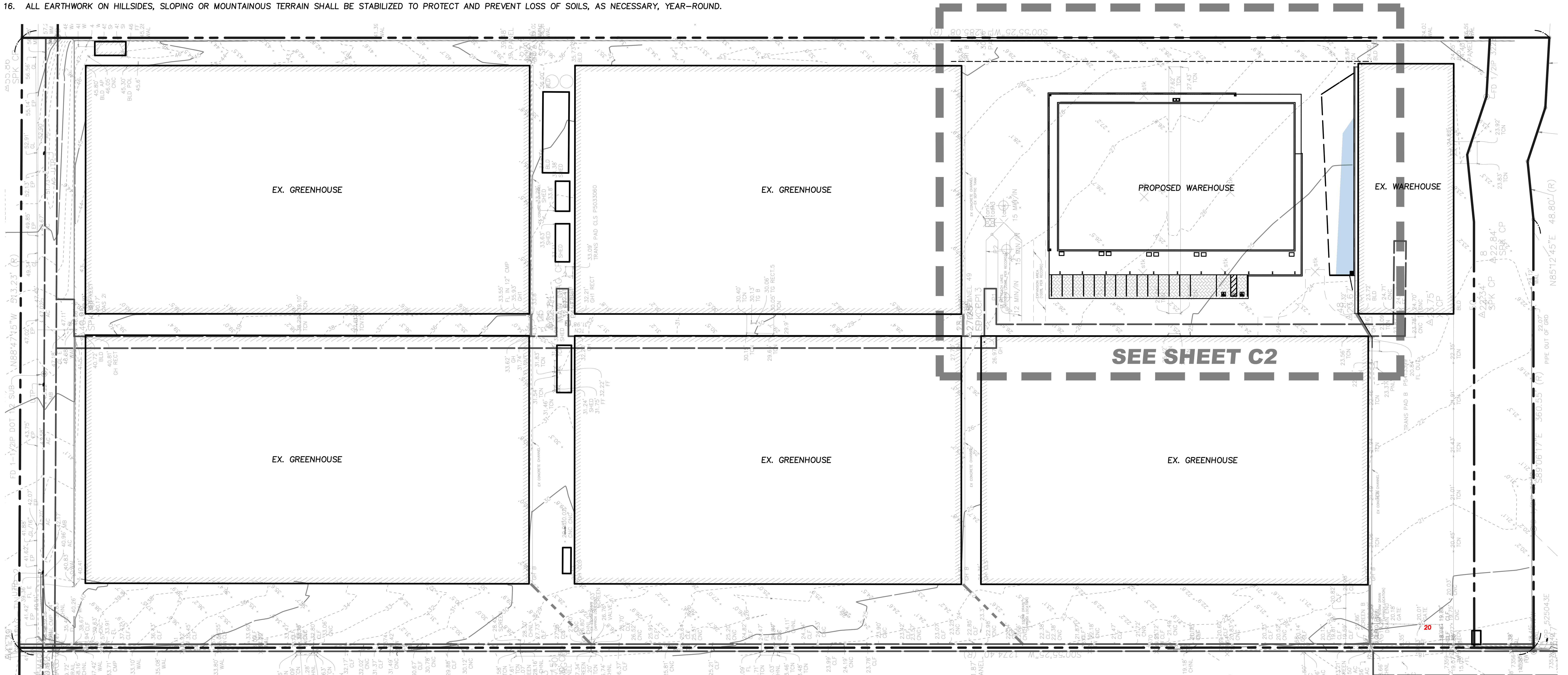
12. ALL TREES THAT ARE TO REMAIN ON SITE SHALL BE TEMPORARILY FENCED AND PROTECTED AROUND THE DRIP LINE DURING GRADING.

13. AN EROSION AND SEDIMENT CONTROL PLAN SHALL BE REQUIRED AS PART OF THE GRADING PLAN AND PERMIT REQUIREMENTS.

14. "BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES: ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS MUST BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED AS A SOLID WASTE. TRASH AND CONSTRUCTION RELATED SOLID WASTE MUST BE DEPOSITED INTO A COVERED WASTE RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY SEDIMENTS AND OTHER MATERIAL MAY NOT BE TRACKED FROM TO THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITION MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO MINIMIZE EROSION BY WIND AND WATER."

15. IF GRADING OCCURS DURING NOV 1 THROUGH APR 15, NO GRADING SHALL OCCUR UNLESS APPROVED EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE. DISCHARGES OF SEDIMENT FROM THE PROJECT SITE MAY RESULT IN A STOP WORK ORDER".

16. ALL EARTHWORK ON HILLSIDES, SLOPING OR MOUNTAINOUS TERRAIN SHALL BE STABILIZED TO PROTECT AND PREVENT LOSS OF SOILS, AS NECESSARY, YEAR-ROUND.



Know what's below. Call before you dig.

SCALE: 1"=50'
0 50 100 150

VICINITY MAP

N.T.S.

ASSESSORS PARCEL MAP

N.T.S.

PROJECT DATA

PROJECT ADDRESS:	3561 FOOTHILL RD CARPINTERIA, CA 93013
CLIENT INFORMATION:	MAGU FARMS, LLC

GRADING STATISTICS

CUT	1,400	CY
FILL	1,000	CY
TOTAL GRADED AREA	42,430	SF
	0.97	ACRES

EARTHWORK QUANTITIES ARE RAW VOLUMETRIC ESTIMATES FOR PRELIMINARY REVIEW AND PLANNING SUBMITTAL ONLY.
1) ESTIMATES DO NOT INCLUDE VOLUME ADJUSTMENTS DO TO CLEARING, SHRINKAGE, OVEREXCAVATION, UTILITY/FOOTING SPOILS, OR IMPORT OF CONSTRUCTION MATERIALS.
2) FOR PRELIMINARY PURPOSES, ALL SLAB FLATWORK ASSUMED TO BE 10" IN THICKNESS FOR EARTHWORK PURPOSES.
3) THE PRELIMINARY DETENTION BASIN DESIGN HAS BEEN INCLUDED IN THIS ESTIMATE.

ABBREVIATIONS

AC	ASPHALT CONCRETE	N.T.S.	NOT TO SCALE
BW	BACK OF WALK	PP	POWER POLE
C	COMMUNICATIONS	RIM	TOP OF STRUCTURE
CLF	CHAIN LINK FENCE	S	SEWER
CO	CLEANOUT	SD	STORM DRAIN
E	ELECTRICAL	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SL	SEWER LATERAL
FF	FINISHED FLOOR	SSMH	SEWER MANHOLE
FG	FINISHED GRADE	STBK	SETBACK
FH	FIRE HYDRANT	TC	TOP OF CURB
FL	FLOW LINE	TF	TOP OF FOOTING
FS	FINISHED SURFACE	TG	TOP OF GRATE
FW	FIRE WATER	TP	TOP OF PIPE
G	GAS	TW	TOP OF WALL
GFF	GARAGE FINISHED FLOOR	U	DRY UTILITIES
GM	GAS METER	W	WATER
HP	HIGH POINT	WM	WATER METER
INV	INVERT	WV	WATER VALVE
LP	LOW POINT		

SURVEYOR'S NOTES

TOPOGRAPHIC MAP PREPARED BY WATERS-CARDENAS LAND SURVYEING, LLP, APRIL 8, 2020.

(1) HORIZONTAL BASIS OF COORDINATES IS NAD83 (2017 EPOCH) PER STATION 44 PER RECORD OF SURVEY BOOK 212 PAGES 48-52.

(2) VERTICAL DATUM IS NAVD88 PER CAL-TRANS POST MILE 15.04. ELEVATION = 88.58' FEET

(3) = NO MONUMENT FOUND OR SET UNLESS OTHERWISE NOTED

(4) = FOUND MONUMENT AS NOTED

(5) (R) = BOUNDARY PER PARCEL "A" OF PARCEL MAP BOOK 30 PAGE 27

SHEET INDEX

FOR PLANNING REVIEW ONLY

COAST ENGINEERING & SURVEY, INC.
22 ANACAPA ST. #2
SANTA BARBARA, CA. 93101
PH: (805) 439-1920

REGISTERED PROFESSIONAL ENGINEER
SCOTT T. SMITH
No. 74892
CIVIL
STATE OF CALIFORNIA
PRELIMINARY

REVISIONS:
DATE:
DESCRIPTION:

DRAWN: DEA
CHECKED: STS

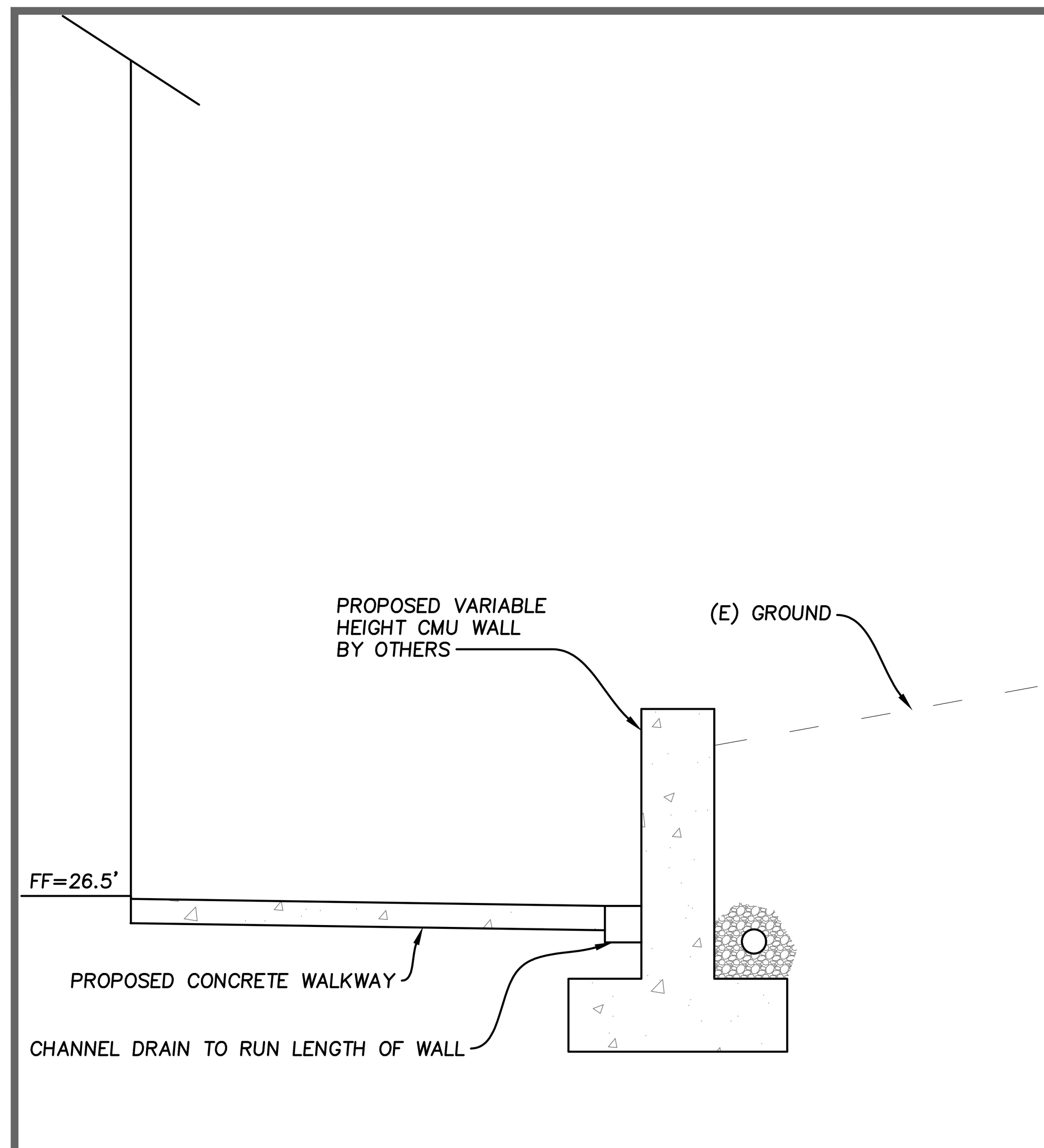
LOCATION: 3561 FOOTHILL RD, CARPINTERIA, CA. 93013, APN: 005-280-040
PROJECT NO.: 19103
CLIENT: MAGU FARMS, LLC

3561 FOOTHILL RD
MAGU FARMS PROPOSED WAREHOUSE
GRADING AND STORMWATER CONTROL PLAN

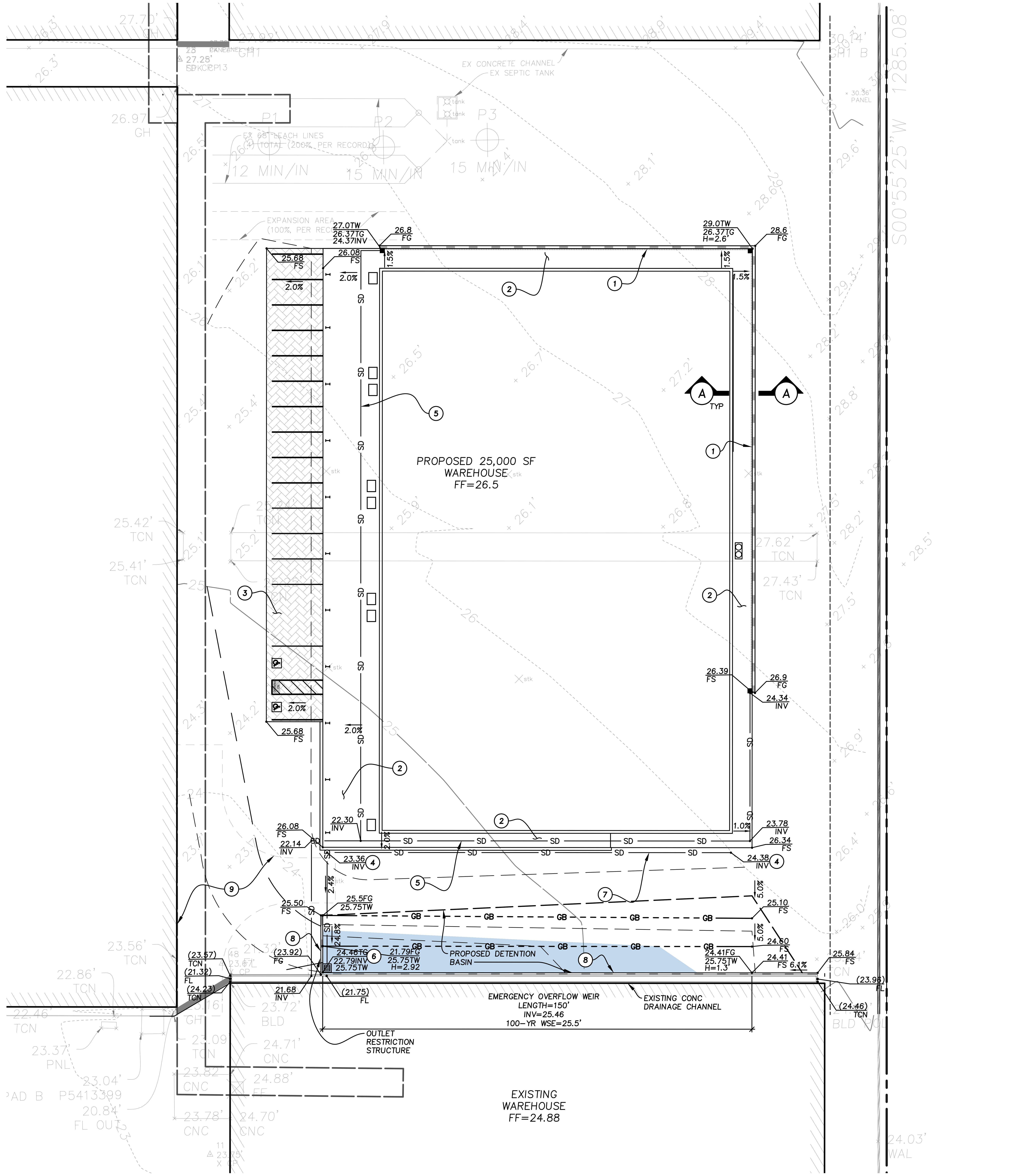
TITLE SHEET

SHEET: C1 OF: 4

DATE: JULY 16, 2020



A–A
SCALE: 1"=2'



HSG: Group B – Medium Runoff
BaC–Ballard Fine Sandy Loam, 2–9 percent slope

CONSTRUCTION NOTES

1. PROPOSED 6" CHANNEL DRAIN AND VARIABLE HEIGHT RETAINING WALL.
2. PROPOSED CONCRETE APRON.
3. PROPOSED PERVIOUS PAVER PARKING AREA.
4. MANIFOLD TOGETHER ROOF DRAINS. CONNECT DOWNSPOUT TO 12" STORM DRAIN.
5. 8" PROPOSED PVC PIPE.
6. CONSTRUCT DETENTION BASIN OUTLET PER DETAIL 1 SHEET C4.
7. CONSTRUCT 12" PVC PIPE.
8. CONSTRUCT RETAINING WALL ALONG EXISTING CONCRETE CHANNEL.
9. PROPOSED COUNTY OF SANTA BARBARA FIRE DEPARTMENT HAMMERHEAD. MAXIMUM SLOPE TO BE 5.0%.

SCALE: 1"=20'
0 20 40 60

FOR PLANNING REVIEW ONLY

COAST
ENGINEERING & SURVEY, INC.
22 ANACAPA ST. #2
SANTA BARBARA, CA. 93101
PH: (805) 439-1920

REGISTERED PROFESSIONAL ENGINEER
SCOTT T. SMITH
No. 74892
CIVIL
STATE OF CALIFORNIA
PRELIMINARY

REVISIONS: DATE: DESCRIPTION:

DRAWN: DEA
CHECKED: STS

LOCATION: 3561 FOOTHILL RD
CARPINTERIA, CA. 93013
APN: 005-280-040

PROJECT NO. 19103

CLIENT: MAGU FARMS, LLC

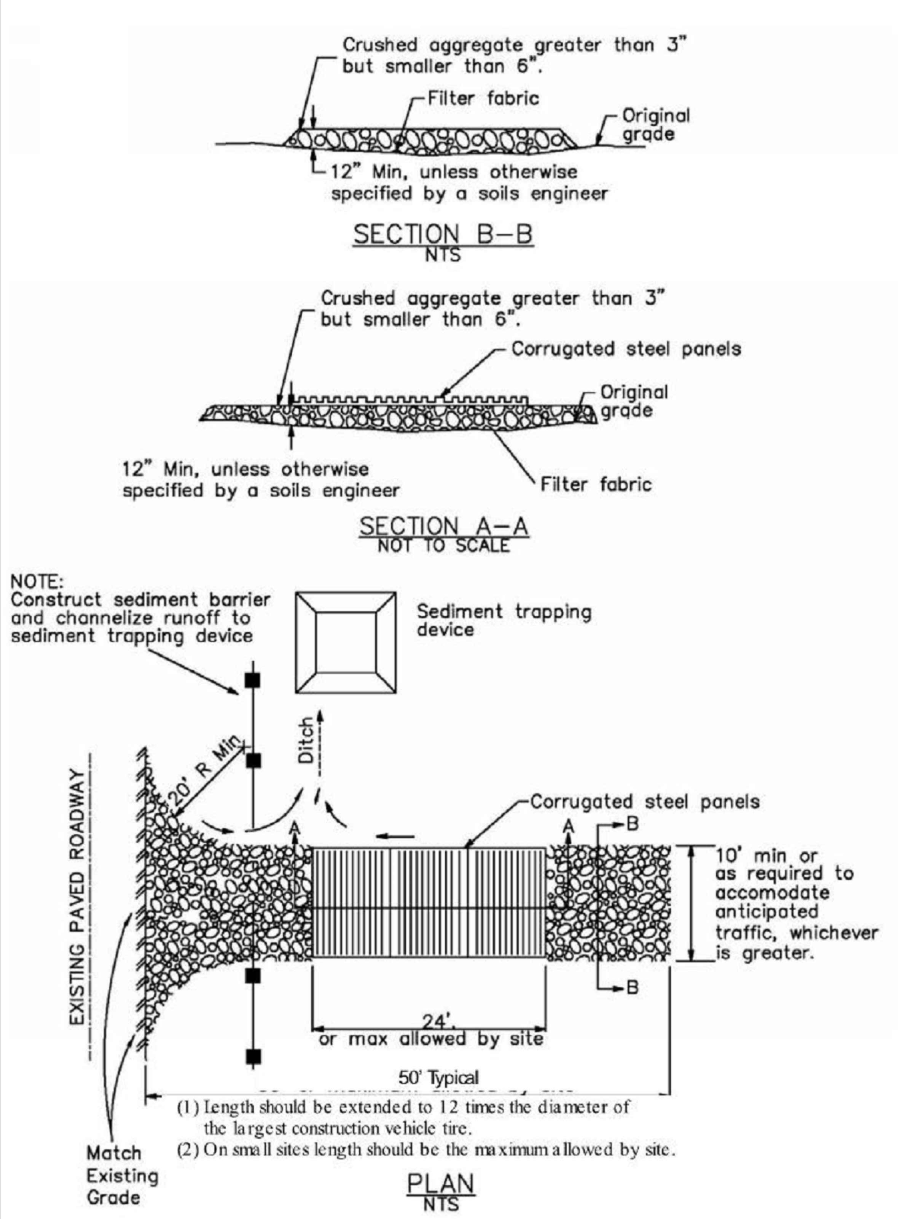
3561 FOOTHILL RD
MAGU FARMS PROPOSED WAREHOUSE
GRADING AND STORMWATER CONTROL PLAN

PRELIMINARY GRADING AND DRAINAGE PLAN

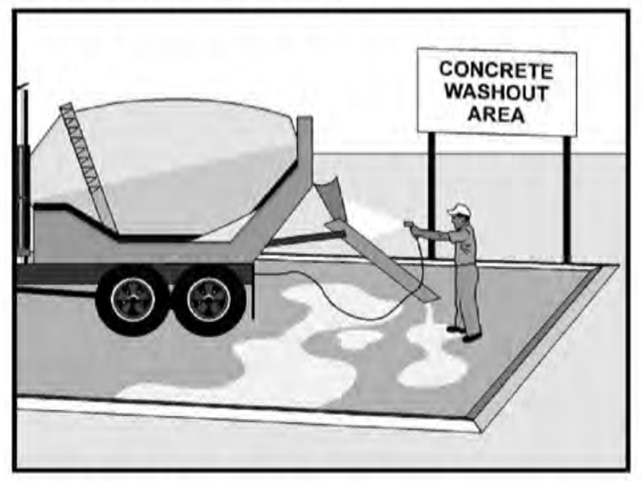
SHEET: C2 OF: 4

DATE: JULY 16, 2020

Stabilized Construction Entrance/Exit TC-1



Concrete Waste Management WM-8



Description and Purpose

Prevent the discharge of pollutants to stormwater from concrete waste by conducting washout onsite or offsite in a designated area, and by employee and subcontractor training.

The General Permit incorporates Numeric Action Levels (NAL) for pH (see Section 2 of this handbook to determine your project's risk level and if you are subject to these requirements).

Many types of construction materials, including mortar, concrete, stucco, cement and block and their associated wastes have basic chemical properties that can raise pH levels outside of the permitted range. Additional care should be taken when managing these materials to prevent them from coming into contact with stormwater flows and raising pH to levels outside the accepted range.

Suitable Applications

Concrete waste management procedures and practices are implemented on construction projects where:

- Concrete is used as a construction material or where concrete dust and debris result from demolition activities.
- Slurries containing portland cement concrete (PCC) are generated, such as from saw cutting, coring, grinding, grooving, and hydro-concrete demolition.
- Concrete trucks and other concrete-coated equipment are washed onsite.

Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	☒
WM	Waste Management and Materials Pollution Control	☑

Legend:
☑ **Primary Category**
☒ **Secondary Category**

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	☑
Bacteria	
Oil and Grease	
Organics	

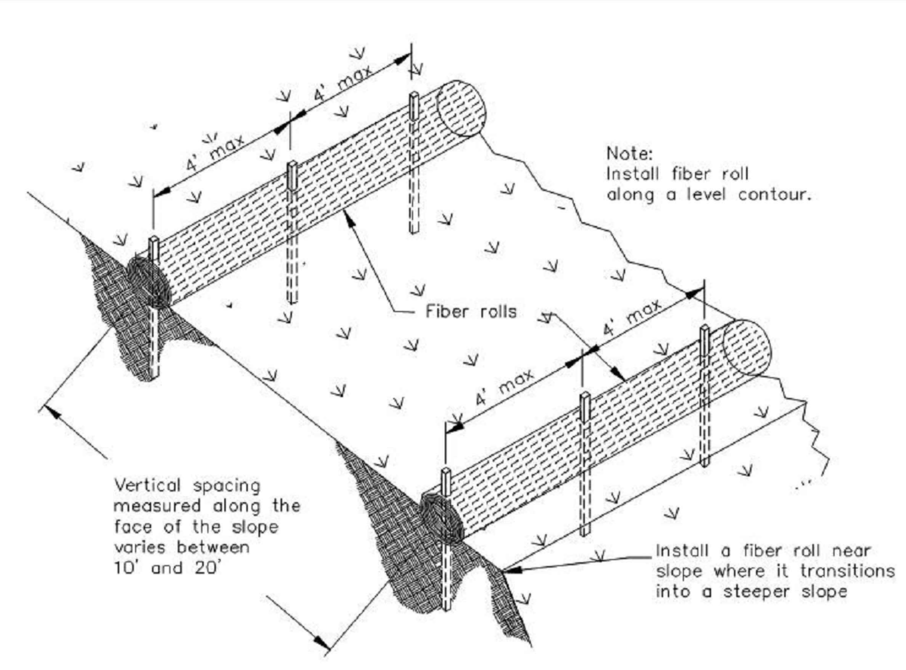
Potential Alternatives

None

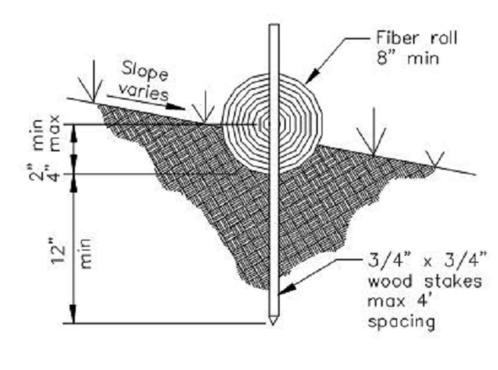
If User/Subscriber modifies this fact sheet in any way, the CASQA name/logo and footer below must be removed from each page and not appear on the modified version.

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION

Fiber Rolls SE-5

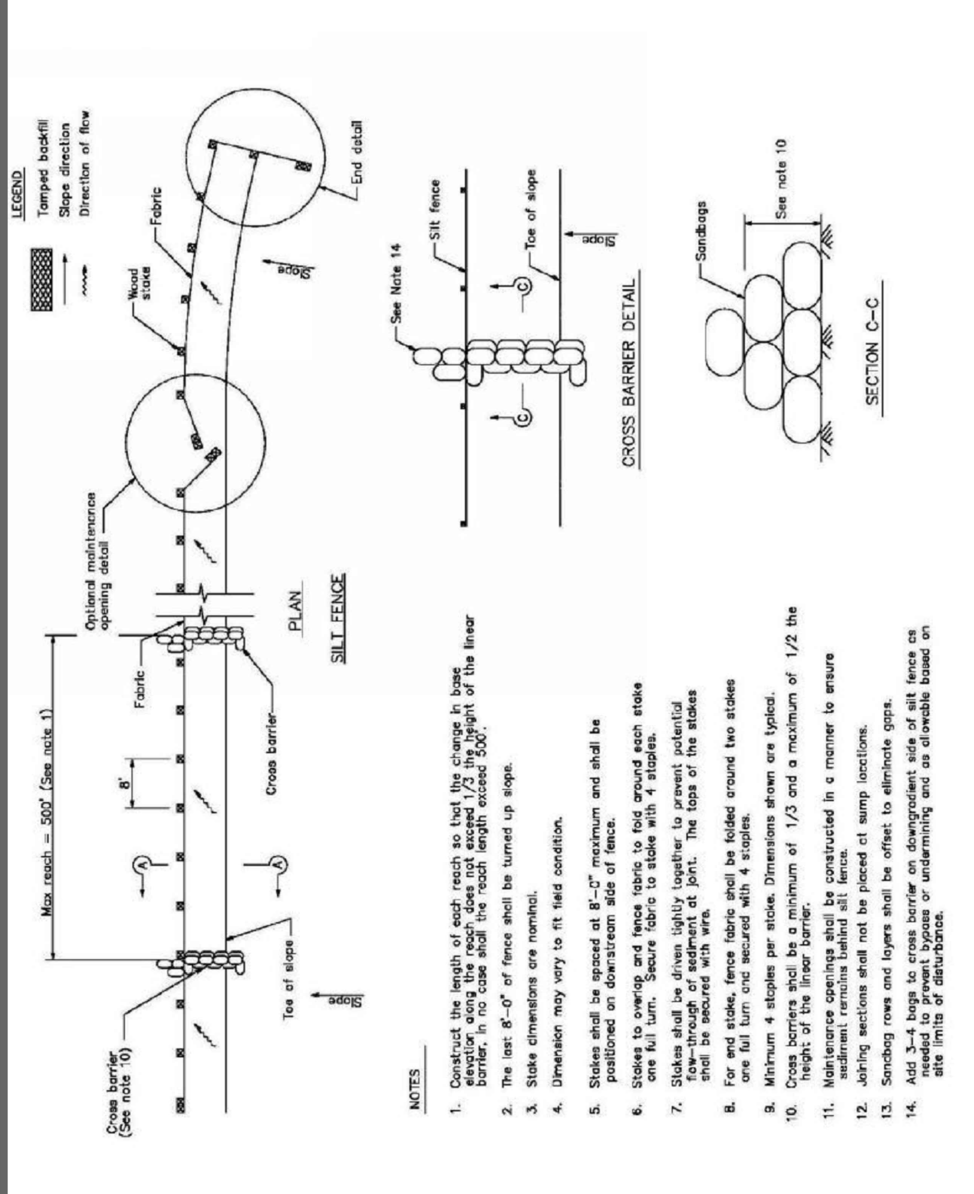


TYPICAL FIBER ROLL INSTALLATION
N.T.S.

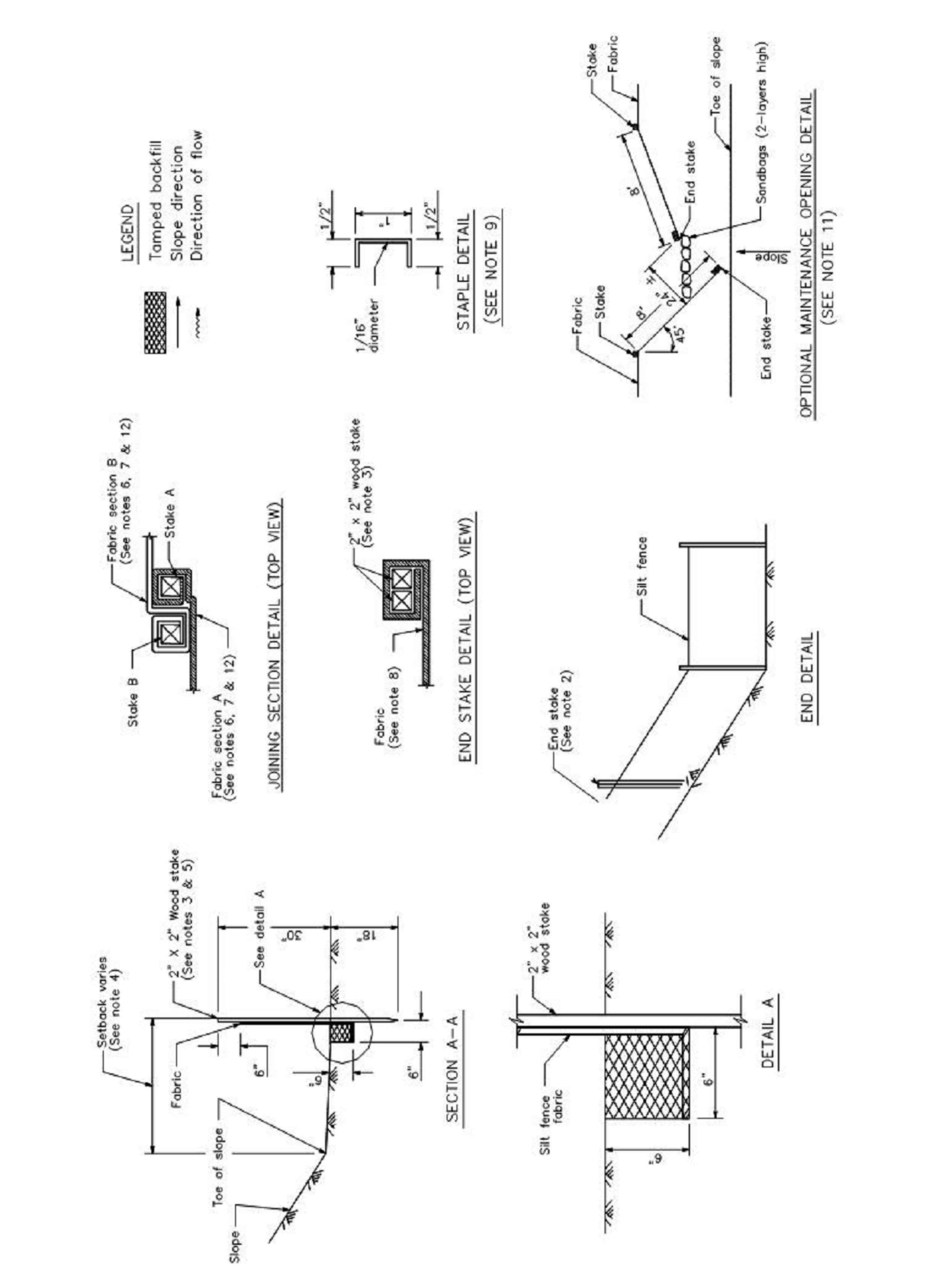


ENTRENCHMENT DETAIL
N.T.S.

Silt Fence SE-1



Silt Fence SE-1



CASQA CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP'S)

TEMPORARY SOIL STABILIZATION

EC1 – SCHEDULING
EC2 – PRESERVATION OF EXISTING VEGETATION
EC3 – HYDRAULIC MULCH
EC4 – HYDROSEEDING
EC5 – SOIL BINDERS
EC6 – STRAW MULCH
EC7 – GEOTEXTILES, PLASTIC COVERS, & EROSION CONTROL BLANKETS/MATS
EC8 – WOOD MULCHING
EC9 – EARTH DIKES/DRAINAGE SWALES & LINED DITCHES
EC10 – OUTLET PROTECTION/VELOCITY DISSIPATION DEVICES
EC11 – SLOPE DRAINS
EC12 – STREAMBANK STABILIZATION
EC13 – RESERVED
EC14 – COMPOST BLANKET
EC15 – SOIL PREPARATION/ROUGHENING
EC16 – NON-VEGETATIVE STABILIZATION

NON-STORMWATER MANAGEMENT

NS1 – WATER CONSERVATION PRACTICES
NS2 – DEWATERING OPERATIONS
NS3 – PAVING AND GRINDING OPERATIONS
NS4 – TEMPORARY STREAM CROSSING
NS5 – CLEAR WATER DIVERSION
NS6 – ILLICIT CONNECTION/ILLEGAL DISCHARGE DETECTION AND REPORTING
NS7 – POTABLE WATER/IRRIGATION
NS8 – VEHICLE AND EQUIPMENT CLEANING
NS9 – VEHICLE AND EQUIPMENT FUELING
NS10 – VEHICLE AND EQUIPMENT MAINTENANCE
NS11 – PILE DRIVING OPERATIONS
NS12 – CONCRETE CURING
NS13 – CONCRETE FINISHING
NS14 – MATERIAL OVER WATER
NS15 – DEMOLITION OVER WATER
NS16 – TEMPORARY BATCH PLANTS

TEMPORARY SEDIMENT CONTROL

SE1 – SILT FENCE
SE2 – SEDIMENT/DESILTING BASIN
SE3 – SEDIMENT TRAP
SE4 – CHECK DAM
SE5 – FIBER ROLLS
SE6 – GRAVEL BAG BERM
SE7 – STREET SWEEPING AND VACUUMING
SE8 – SANDBAG BARRIER
SE9 – STRAW BALE BARRIER
SE10 – STORM DRAIN INLET PROTECTION
SE11 – ACTIVE TREATMENT SYSTEMS
SE12 – MANUFACTURED LINEAR SEDIMENT CONTROLS (MLSC)
SE13 – COMPOST SOCKS AND BERMS
SE14 – BIOFILTER BAGS

TRACKING CONTROL

TC1 – STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC2 – STABILIZED CONSTRUCTION ROADWAY
TC3 – ENTRANCE/OUTLET TIRE WASH

WIND EROSION CONTROL

WE1 – WIND EROSION CONTROL

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL

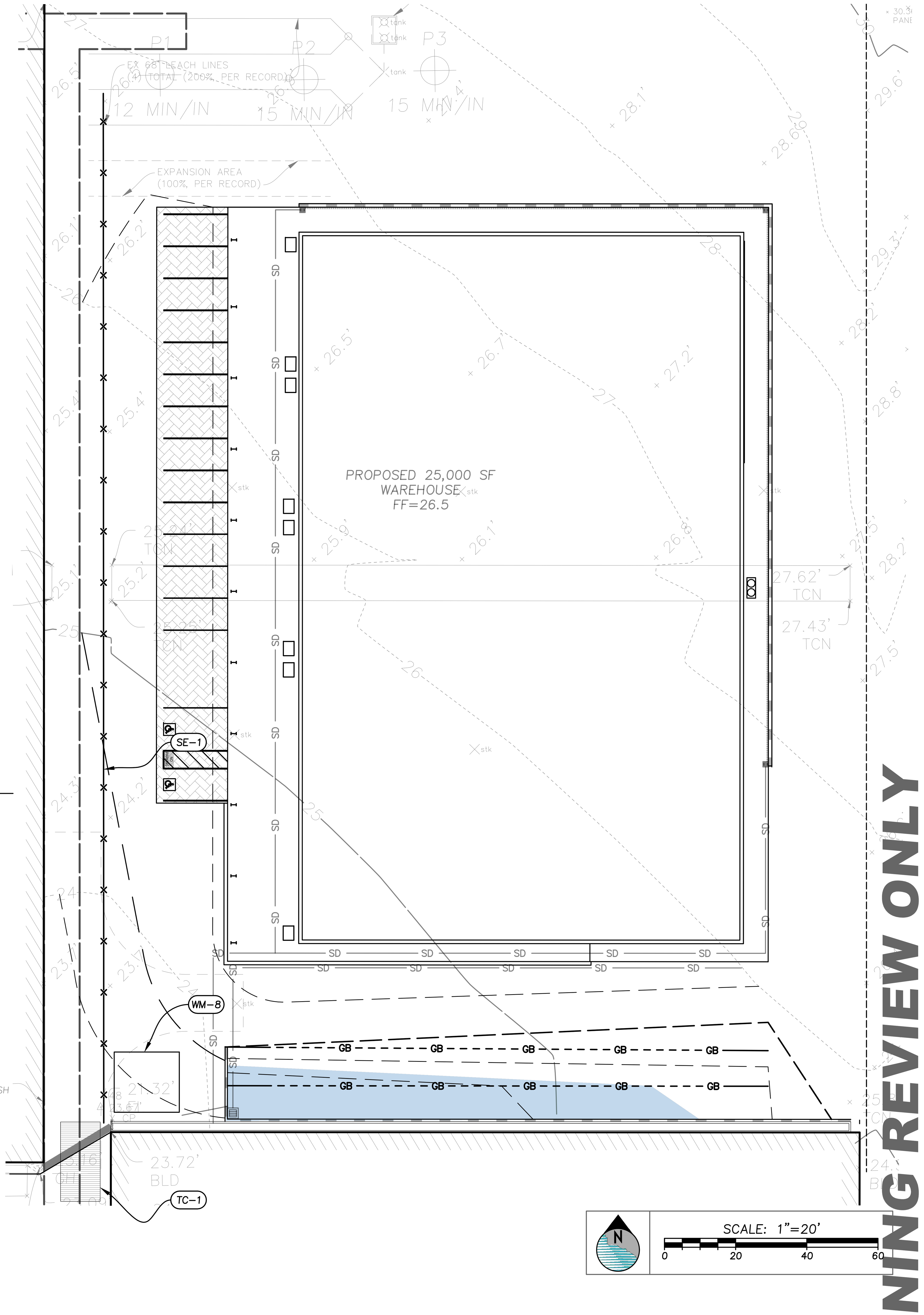
WM1 – MATERIAL DELIVERY AND STORAGE
WM2 – MATERIAL USE
WM3 – STOCKPILE MANAGEMENT
WM4 – SPILL PREVENTION AND CONTROL
WM5 – SOLID WASTE MANAGEMENT
WM6 – HAZARDOUS WASTE MANAGEMENT
WM7 – CONTAMINATED SOIL MANAGEMENT
WM8 – CONCRETE WASTE MANAGEMENT
WM9 – SANITARY/SEPTIC WASTE MANAGEMENT
WM10 – LIQUID WASTE MANAGEMENT

EROSION CONTROL NOTES

		LEGEND
(WM-8)	CONSTRUCTION WASH-OUT AREA.	
(SE-1)	CONSTRUCTION SILT FENCE.	
(TC-1)	STABILIZED CONSTRUCTION ENTRANCE/EXIT	

EROSION CONTROL GENERAL NOTES

1. CONTRACTOR TO IMPLEMENT CONSTRUCTION BMP'S BELOW IN ACCORDANCE WITH THE CURRENT CASQA CONSTRUCTION BMP HANDBOOK AND WITH THE COUNTY OF SANTA BARBARA STANDARDS. SELECTED BMP'S ARE NOTED ABOVE.
2. BMP'S SHALL BE IMPLEMENTED BY THE CONTRACTOR(S) AS NECESSARY, WHETHER OR NOT SPECIFIED BY THESE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT BMP'S IN TIMELY MANNER.



FOR PLANNING REVIEW ONLY

COAST
ENGINEERING & SURVEY, INC.
22 ANACAPA ST. #2
SANTA BARBARA, CA. 93101
PH: (805) 439-1920

REGISTERED PROFESSIONAL ENGINEER
SCOTT T. SMITH
No. 74892
CIVIL
STATE OF CALIFORNIA
PRELIMINARY

REVISIONS: DATE:	DESCRIPTION:

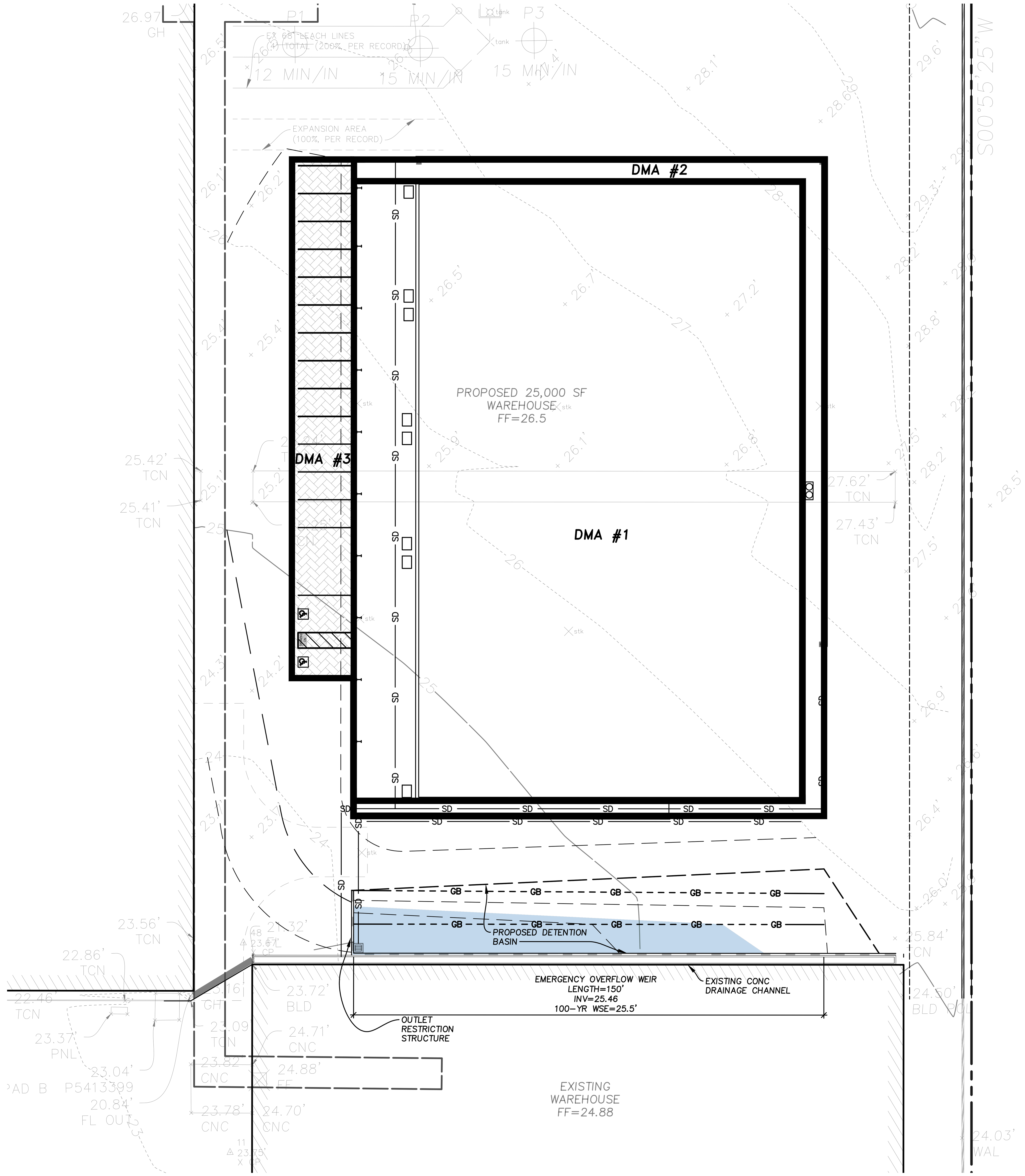
DRAWN: DEA
CHECKED: STS

LOCATION: 3561 FOOTHILL RD, CARPINTERIA, CA. 93013, APN: 005-280-040
PROJECT NO.: 19103
CLIENT: MAGU FARMS, LLC

3561 FOOTHILL RD
MAGU FARMS PROPOSED WAREHOUSE
GRADING AND STORMWATER CONTROL PLAN
EROSION AND SEDIMENT CONTROL PLAN

SHEET: C3 OF: 4

DATE: JULY 16, 2020



STORMWATER CONTROL STATISTICS

NEW OR REPLACED IMPERVIOUS	DRAINS TO:	PROP (SF)
DMA #1 (ROOF AREA)	DETENTION BASIN	29,425
DMA #2 (CONCRETE APRON)	DRAINS TO PERVIOUS	3,376
DMA #4 (PERVIOUS PAVERS)	SELF TREATING/RETAINING	3,350

PROJECT IMPERVIOUS IS >22,500, THEREFORE PROJECT IS TIER 4.

TIER II REQUIREMENTS

STORMWATER RUNOFF FROM DMA 1 (ROOF) IS CONSIDERED CLEAN AND WILL NOT BE TREATED BEFORE ENTERING THE DETENTION BASIN. THE ROOF WILL BE SLOPED CORRUGATED METAL.

THE PAVEMENT WILL FLOW INTO THE CHANNEL DRAINS. THE CATCH BASINS AT THE END OF THE CHANNELS WILL BE FITTED WITH CATCH BASIN FILTERS FOR TREATMENT.

TIER III REQUIREMENTS

THE SITE HAS HIGH SEASONAL GROUNDWATER. GROUNDWATER WAS DETECTED WITHIN 8' OF THE EXISTING SURFACE. THIS MEANS THAT STORMAWATER RETENTION WILL NOT BE FEASIBLE.

ALTERNATIVE COMPLIANCE WILL BE USED TO MEET TIER III REQUIREMENTS. A TEN PERCENT ADJUSTMENT WILL BE USED.

EQUIVALENT SURFACE AREA = 33,136 SF
TOTAL SCM AREA = 3,350 SF
% SCM = 10.1%

*SEE STORMWATER CONTROL MEMO FOR CALCULATIONS

TIER IV REQUIREMENTS

A DETENTION BASIN LOCATED ON THE SOUTHER PORTION OF THE SITE WILL BE USED TO DETAIN PEAK FLOWS TO PRE-DEVELOPMENT LEVELS. SEE TABLE BELOW FOR SUMMARY AND STORMWATER CONTROL MEMO FOR DETAILS.

FLOOD CONTROL DATA

	EXISTING PEAK RUNOFF CONDITIONS	PROPOSED PEAK RUNOFF CONDITIONS	Δ
2-YEAR	1.03 CFS	1.03 CFS	0.00 CFS
5-YEAR	1.80 CFS	1.79 CFS	-0.01 CFS
10-YEAR	2.33 CFS	2.32 CFS	-0.01 CFS
25-YEAR	2.98 CFS	2.93 CFS	-0.05 CFS
50-YEAR	3.46 CFS	3.37 CFS	-0.09 CFS
100-YEAR	3.93 CFS	3.77 CFS	-0.16 CFS

FOR PLANNING REVIEW ONLY

SCALE: 1"=20'

COAST
ENGINEERING & SURVEY, INC.
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PH: (805) 439-1920

REGISTERED PROFESSIONAL ENGINEER
SCOTT T. SMITH
No. 74892
CIVIL
STATE OF CALIFORNIA
PRELIMINARY

REVISIONS: DATE: DESCRIPTION:

LOCATION: 3561 FOOTHILL RD, CARPINTERIA, CA. 93013, APN: 005-280-040

PROJECT NO. 19103

DRAWN: DEA

CHECKED: STS

CLIENT: MAGU FARMS, LLC

3561 FOOTHILL RD
MAGU FARMS PROPOSED WAREHOUSE GRADING AND STORMWATER CONTROL PLAN
PRELIMINARY STORMWATER CONTROL PLAN

SHEET: C4 OF: 4

DATE: JULY 16, 2020

SURVEYOR'S NOTES:

SURVEY PREPARED BY: WATERS CARDENAS LAND SURVEYING, LLP
DATE PERFORMED: APRIL 8, 2020

(1) HORIZONTAL BASIS OF COORDINATES IS NAD83 (2017 EPOCH) PER STATION 44 PER RECORD OF SURVEY BOOK 212 PAGES 48–52.

(2) VERTICAL DATUM IS NAVD88 PER CAL–TRANS POST MILE 15.04. ELEVATION = 88.58'

(3) ○ = NO MONUMENT FOUND OR SET UNLESS OTHERWISE NOTED.

(4) ● = FOUND MONUMENT AS NOTED.

(5)(R) = BOUNDARY PER PARCEL "A" OF PARCEL MAP BOOK 30 PAGE 27.

GEOTECHNICAL INFORMATION

REPORT PREPARED BY: GEOSOLUTIONS
DATE: MAY 15, 2020

LEGEND

—— S ——	PROPOSED SEWER
— S – – – –	EXISTING SEWER
—— P ——	PROPOSED SEWER PRESSURE
	PROPERTY LINE
	EASEMENT
	SETBACK
P6	PERCOLATION TEST LOCATION
PERC RATE	MEASURED PERCOLATION RATE (MIN/IN)
LOADING RATE	ALLOWABLE LOADING RATE (PER LAMP REQUIREMENTS)
DEPTH OF TEST	DEPTH OF TEST

VICINITY MAP

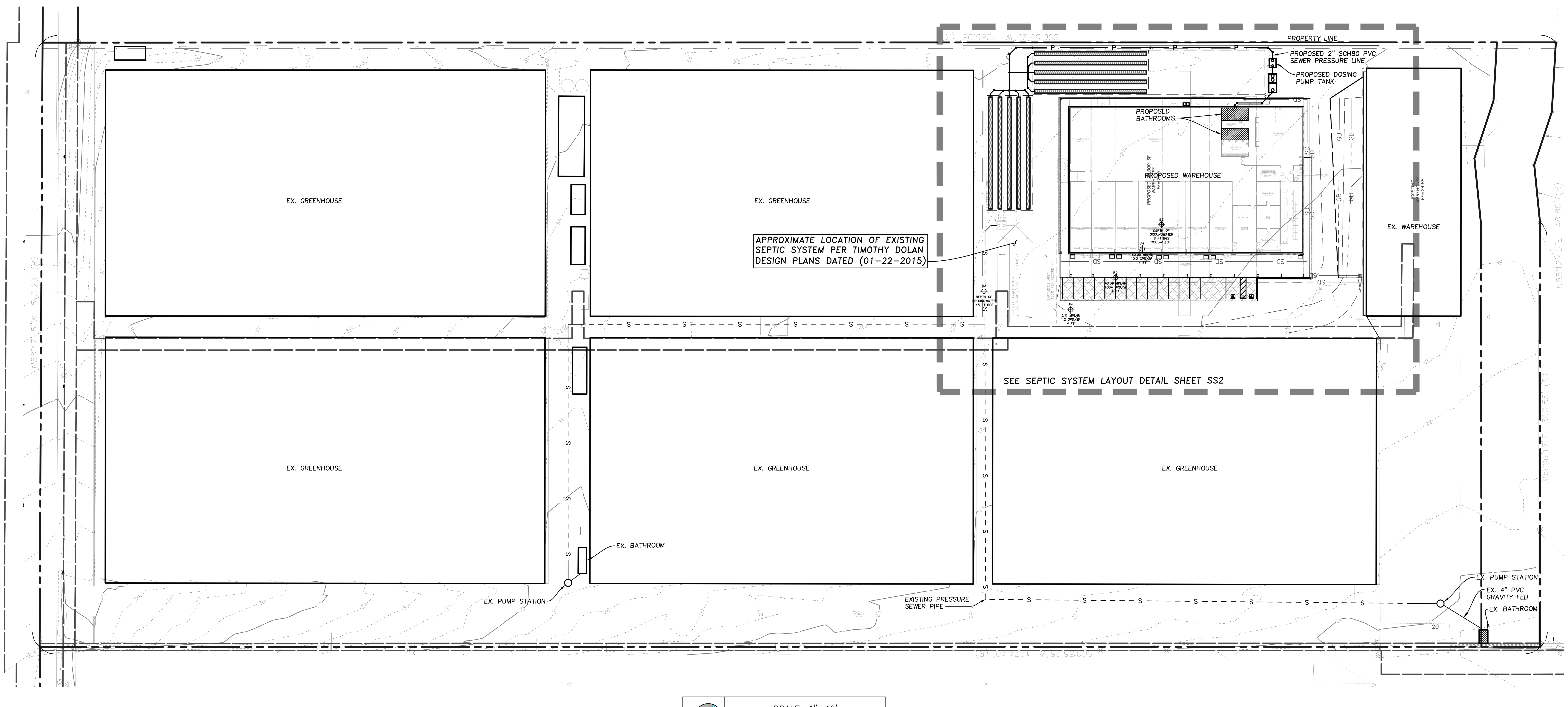
N.T.S.

ASSESSORS PARCEL MAP

N.T.S.

SHEET INDEX

SS1	TITLE SHEET, SITE PLAN
SS2	SEPTIC SYSTEM LAYOUT
SS3	DETAILS
SS4	DETAILS



COAST ENGINEERING & SURVEY, INC.
22 ANACAPA ST. #2
SANTA BARBARA, CA. 93101
PH: (805) 439-1920

REGISTERED PROFESSIONAL ENGINEER SCOTT T. SMITH No. 74892 CIVIL STATE OF CALIFORNIA
PRELIMINARY

REVISIONS: DATE: DESCRIPTION:

LOCATION: 3561 FOOTHILL ROAD CARPINTERIA, CA 93013 005–280–040
PROJECT NO. 19103
DRAWN DEA
CHECKED STS
CLIENT MAGU FARMS, LLC

3561 FOOTHILL RD
MAGU FARMS OWTS DESIGN PLANS

TITLE SHEET, SITE PLAN

SHEET: SS1 OF: 4

DATE: JULY 29, 2020

TYPICAL EPA WASTEWATER FLOW RATES

Chapter 3: Establishing Treatment System Performance Requirements

Table 3-4. Typical wastewater flow rates from commercial sources[a,b]

Facility	Unit	Flow, gallons/unit/day Range	Flow, gallons/unit/day Typical	Flow, liters/unit/day Range	Flow, liters/unit/day Typical
Airport	Passenger	2–4	3	8–15	11
Apartment house	Person	40–80	50	150–300	190
Automobile service station[c]	Vehicle served	8–15	12	30–57	45
	Employee	9–15	13	34–57	49
Bar	Customer	1–5	3	4–19	11
	Employee	10–16	13	38–61	49
Boarding house	Person	25–60	40	95–230	150
Department store	Toilet room	400–600	500	1,500–2,300	1,900
	Employee	8–15	10	30–57	38
Hotel	Guest	40–60	50	150–230	190
	Employee	8–13	10	30–49	38
Industrial building (sanitary waste only)	Employee	7–16	13	26–61	49
Laundry (self-service)	Machine	450–650	550	1,700–2,500	2,100
	Wash	45–55	50	170–210	190
Office	Employee	7–16	13	26–61	49
Public lavatory	User	3–6	5	11–23	19
Restaurant (with toilet)	Meal	2–4	3	8–15	11
Conventional	Customer	8–10	9	30–38	34
Short order	Customer	3–8	6	11–30	23
Bar/cocktail lounge	Customer	2–4	3	8–15	11
Shopping center	Employee	7–13	10	26–49	38
	Parking space	1–3	2	4–11	8
Theater	Seat	2–4	3	8–15	11

[a] Some systems serving more than 20 people might be regulated under USEPA's Class V Underground Injection Control (UIC) Program. See http://www.epa.gov/safewater/uic.html for more information.
[b] These data incorporate the effect of fixtures complying with the U.S. Energy Policy Act (EPACT) of 1994.
[c] Disposal of automotive wastes via subsurface wastewater infiltration systems is banned by Class V UIC regulations to protect ground water. See http://www.epa.gov/safewater/uic.html for more information.

Source: Crites and Tchobanoglous, 1998.

ONSITE TREATMENT SYSTEM CALCULATIONS

FIELD	RESULT
PARCEL SIZE:	14.66 ACRES
NUMBER OF EMPLOYEES	56
TYPICAL FLOW (INDUSTRIAL BLDG)	15 GPD/EMPLOYEE (PER EPA OWTS MANUAL TABLE 3–4, SEE DETAIL THIS SHEET)
FLOW RATE	840 GPD (56 EMP x 15 GPD/EMP)
AVERAGE PERCOLATION RATE	38 MIN/IN @ 4' (AVG PER GEOTECH)
LOADING RATE	0.445 GPD/SF
REQUIRED LEACHING AREA	200% (COMMERCIAL)
ADVANCED TREATMENT	NO
DOSING	NO
REQ. ABSORPTION AREA (100%)	1,888 SF
REQ. ABSORPTION AREA (200%)	3,776 SF
LEACH FIELD ABSORPTION AREA	4 SF/LF
LEACH LENGTH REQ. (100%)	472 LF
LEACH LENGTH REQ. (200%)	944 LF
LEACH LINES (100%)	5
LEACH LINES (200%)	10
LEACH LINE LENGTH	95 LF
LEACH LENGTH PROVIDED (100%)	475 LF
LEACH LENGTH PROVIDED (200%)	950 LF
TRENCH WIDTH	3 FT

SEPTIC TANK SIZING
840 GPD x 3 DAYS = 2,520 GALLONS
USE 3,000 GALLON TRAFFIC RATED MIDSTATE CONCRETE SEPTIC TANK OR APPROVED EQUAL (SEE CONSTRUCTION NOTE 1).

COMMERCIAL PROJECTS REQUIRE TWICE THE 100% DISPOSAL AREA TO BE INSTALLED WITH AN ADDITIONAL 100% HELD IN RESERVE. TOTAL NUMBER OF LEACH LINES TO BE INSTALLED WILL BE 10 @ 95 FT EACH

TIER 1 MINIMUM DEPTH TO GROUNDWATER

PERCOLATION RATE	MINIMUM DEPTH
30 MPI < PERCOLATION RATE ≤ 120 MPI	FIVE (5) FEET

PER CALIFORNIA WATER BOARDS OWTS POLICY TIER 1 LOW RISK SECTION, TABLE 2: TIER 1 MINIMUM DEPTHS TO GROUNDWATER AND MINIMUM SOIL DEPTH FROM THE BOTTOM OF THE DISPERSAL SYSTEM.

GENERAL NOTES

1. ALL SEWER PIPES SHALL BE SDR 35 P.V.C. CONFORMING TO ASTM D–3034 OR EQUIVALENT UNLESS OTHERWISE NOTED.
2. TRENCHING, BEDDING, AND BACKFILL SHALL BE PER COUNTY OF SANTA BARBARA SPECIFICATIONS.
3. ALL SEWERS SHALL BE TESTED BY THE CONTRACTOR PER COUNTY OF SANTA BARBARA STANDARDS.
4. ALL SEWER IMPROVEMENTS AND DISPOSAL FIELDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SANTA BARBARA COUNTY LOCAL AREA MANAGEMENT PLAN (LAMP), AND THESE PLANS.
5. THE LOCATION OF SEPTIC TANKS, BOXES AND DISPOSAL FIELDS SHALL BE STAKED PRIOR TO CONSTRUCTION TO COMPLY WITH SETBACK REQUIREMENTS.

	SEPTIC TANK	DISPOSAL FIELD
SETBACK TO PROPERTY LINE	5'	5'
SETBACK TO BUILDING	5'	8'
SETBACK TO PUBLIC WATER MAIN	10'	10'
SETBACK TO TOP OF CREEK BANK	100'	100'
SETBACK TO PUBLIC WATER WELL	150'	150'
SETBACK TO ADDITIONAL DISPOSAL FIELDS	5'	5'
SETBACK TO ONSITE WATER SERVICE LINE	5'	5'
HORIZONTAL DISTANCE FROM LEACHING SYSTEM TO GROUND SURFACE	15'	15'
SETBACK TO DISTRIBUTION BOX	–	5'

6. PER CPC – MINIMUM SPACING BETWEEN TRENCHES OR LEACHING BEDS SHALL BE FOUR (4) FEET PLUS TWO (2) FEET FOR EACH ADDITIONAL FOOT OF DEPTH IN EXCESS OF ONE (1) FOOT BELOW THE BOTTOM OF THE DRAIN LINE.
7. CONTRACTORS SHALL MAINTAIN ALL MINIMUM DISTANCE REQUIREMENTS BETWEEN OWTS COMPONENTS AND SATISFY OTHER SETBACKS PER LAMP REQUIREMENTS.
8. THIS PLAN DOES NOT AUTHORIZE ANY INCREASE IN DESIGN FLOW AT THE EXISTING PROPERTY.
9. THIS SITE PLAN DOES NOT CONSTITUTE A SURVEY. IT IS SCHEMATIC IN NATURE AND PROVIDES FOR SEPTIC SYSTEM LAYOUT AND SITE REPRESENTATION ONLY.

DOSING SYSTEM

PER CALIFORNIA PLUMBING CODE APPENDIX H601.8: WHEN THE QUANTITY OF SEWAGE EXCEEDS THE AMOUNT THAT CAN BE DISPOSED IN FIVE HUNDRED LINEAL FEET OF LEACH LINE, A DOSING TANK SHALL BE USED. DOSING TANKS SHALL BE EQUIPPED WITH AN AUTOMATIC SIPHON OR PUMP THAT DISCHARGES THE TANK ONCE EVERY THREE OR FOUR HOURS. THE TANK SHALL HAVE A CAPACITY EQUAL TO SIXTY TO SEVENTY–FIVE PERCENT OF THE INTERIOR CAPACITY OF THE PIPE TO BE DOSED AT ONE TIME.

INTERIOR CAPACITY OF LEACH LINES TO BE DOSED:
$pi * r^2 * L$
$(pi) * (1.98\ IN / 12\ FT)^2 * (475\ FT) = 40.60\ FT^3$ (304 GAL)

DOSE SIZE:
60% – 75% * LEACH LINE CAPACITY
60% – 75% * 304 GALLONS = 182–228 GAL PER DOSE

DOSING TANK / PUMP SIZING:
1,000 GALLON MIDSTATE DOSING TANK PER DETAIL "I" HAS A (7'–4" X 5'–6") INTERNAL HORIZONTAL CROSS SECTION.

THE VOLUME DELIVERED BY ONE AUTOMATIC PUMP CYCLE IS:
TANK LENGTH * TANK WIDTH * PUMP DRAWDOWN
7'–4" * 5'–6" * 0'–8" = 27 FT^3 (200 GAL)

USE MIDSTATE CONCRETE 1,000 GALLON HOLDING TANK AND DUAL PUMP (OR APPROVED EQUAL) PER DETAIL "C" SHEET SS3.

CONSTRUCTION NOTES

1. INSTALL 3,000 GALLON TRAFFIC RATED MIDSTATE CONCRETE SEPTIC BATTERY TANK (OR APPROVED EQUAL). TANK SHOULD BE FITTED WITH WATERTIGHT RISERS TO EXTEND WITHIN 12" OF EXISTING GROUND. SEE DETAIL SHEET SS3.
2. INSTALL 4" SDR 35 SEWER LINE AT 2% MINIMUM SLOPE PER TYP TRENCH DETAIL SHEET SS3.
3. CONSTRUCT SEWER CLEANOUTS AT THE UPPER TERMINUS OF EACH HORIZONTAL DRAINAGE PIPE, HORIZONTAL CHANGES IN DIRECTION GREATER THAN OR EQUAL TO 45°, AND AT LEAST EVERY 100'; REFER TO DETAIL SHEET SS3, TYP.
4. INSTALL LEACH LINES PER DETAIL "E" SHEET SS3, AND IN ACCORDANCE WITH ALL MANUFACTURER, LAMP, AND CALIFORNIA PLUMBING CODE RECOMMENDATIONS.
5. INSTALL INSPECTION PORT. INSPECTION PORTS SHALL EXTEND TO THE BOTTOM OF THE TRENCH OR BED AND MUST BE ANCHORED TO PREVENT DISTURBANCE OR REMOVAL. THE PORTION OF THE INSPECTION PORT WITHIN THE ROCK FILTER MATERIAL SHALL BE PERFORATED TO PERMIT THE FREE FLOW OF THE LIQUID. THE INSPECTION PORTS SHALL HAVE REMOVABLE CAPS AND MAY EITHER EXTEND ABOVE GRADE OR SET TO GRADE IF ENCLOSED IN A SERVICE BOX WITH REMOVABLE LID. THE BOXES SHALL BE MADE OF NON–DEGRADABLE MATERIAL SUCH AS PVC, FIBERGLASS OR CONCRETE.
6. FURNISH AND INSTALL MIDSTATE CONCRETE (5)–OUTLET DISTRIBUTION BOX PER DETAIL SHEET SS3 (OR APPROVED EQUAL).
7. FURNISH AND INSTALL DIVERTER VALVE.
8. RESERVE AREA FOR FUTURE USE – 100% LEACH FIELD EXPANSION.
9. FURNISH AND INSTALL 1,000 GALLON DOSING TANK (TRAFFIC RATED), PUMPS, EFFLUENT FILTER, AND CONTROL UNIT PER DETAIL "C" ON SHEET SS3 AND DETAILS "G", "H", AND "I", ON SHEET SS4 (OR APPROVED EQUALS). TANK SHOULD BE FITTED WITH WATERTIGHT RISERS TO EXTEND TO WITHIN 12" OF FINISHED GRADE.

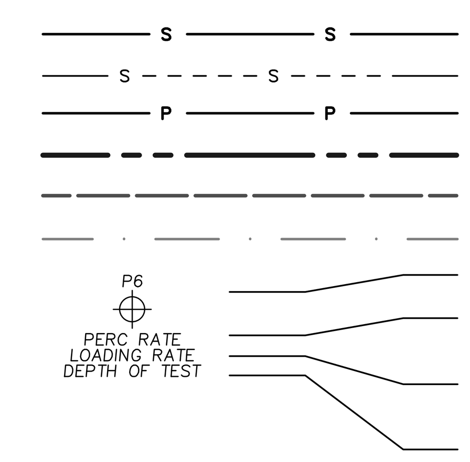
EHS NOTE

SEPTIC SYSTEM INSTALLERS NEED TO WORK FROM THE EHS STAMPED APPROVED PLANS ONLY AND SHOULD NOT DIVERT FROM THE ENGINEERED DESIGN.

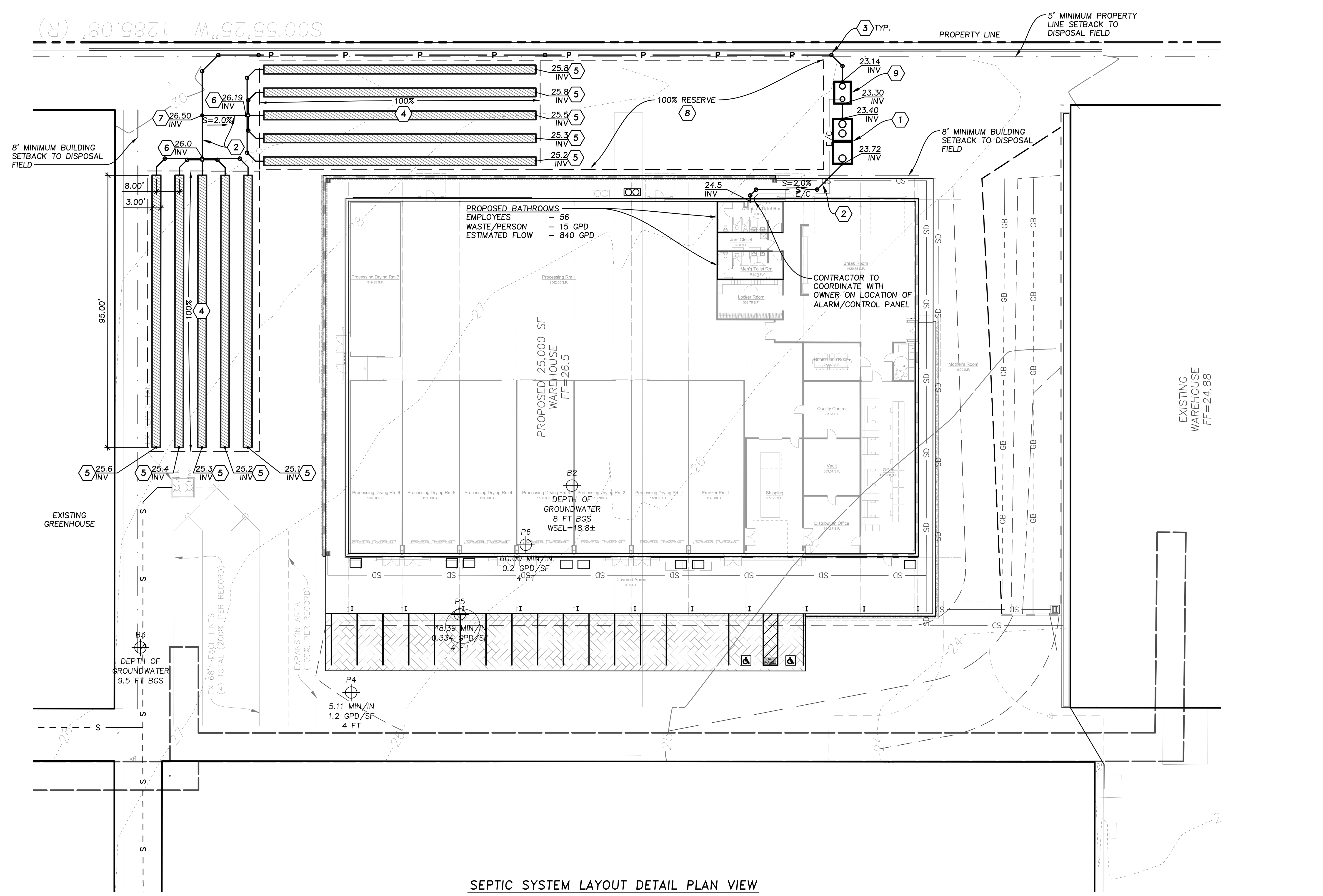
ENGINEER'S NOTE

AS PER THE LAMP 18C–3(F)(2) THE DESIGNING ENGINEER SHOULD CONDUCT PERIODIC INSPECTIONS OF ONSITE WASTEWATER TREATMENT SYSTEMS AFTER EXCAVATION AND PRIOR TO THE PLACEMENT OF ANY ROCK OR FILL MATERIAL. PRIOR TO FINAL APPROVAL, A SIGNED REPORT SHALL BE SUBMITTED TO EHS CONFIRMING THAT THE OWTS INSTALLATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED DESIGN. THIS DOES NOT PRECLUDE THE NORMAL INSPECTION PROCESS ASSOCIATED WITH THE PERMIT TO CONSTRUCT.

LEGEND



PROPOSED SEWER
EXISTING SEWER
PROPOSED SEWER PRESSURE
PROPERTY LINE
EASEMENT
SETBACK
PERCOLATION TEST LOCATION
MEASURED PERCOLATION RATE (MIN/IN)
ALLOWABLE LOADING RATE (PER LAMP REQUIREMENTS)
DEPTH OF TEST



SEPTIC SYSTEM LAYOUT DETAIL PLAN VIEW

SCALE: 1"=20'
0 20 40 60

811 Know what's below. Call before you dig.

COAST ENGINEERING & SURVEY, INC.
22 ANACAPA ST. #2
SANTA BARBARA, CA. 93101
PH: (805) 439-1920

REGISTERED PROFESSIONAL ENGINEER SCOTT T. SMITH No. 74892 CIVIL STATE OF CALIFORNIA
PRELIMINARY

REVISIONS: DATE: DESCRIPTION:

DRAWN DEA
CHECKED STS

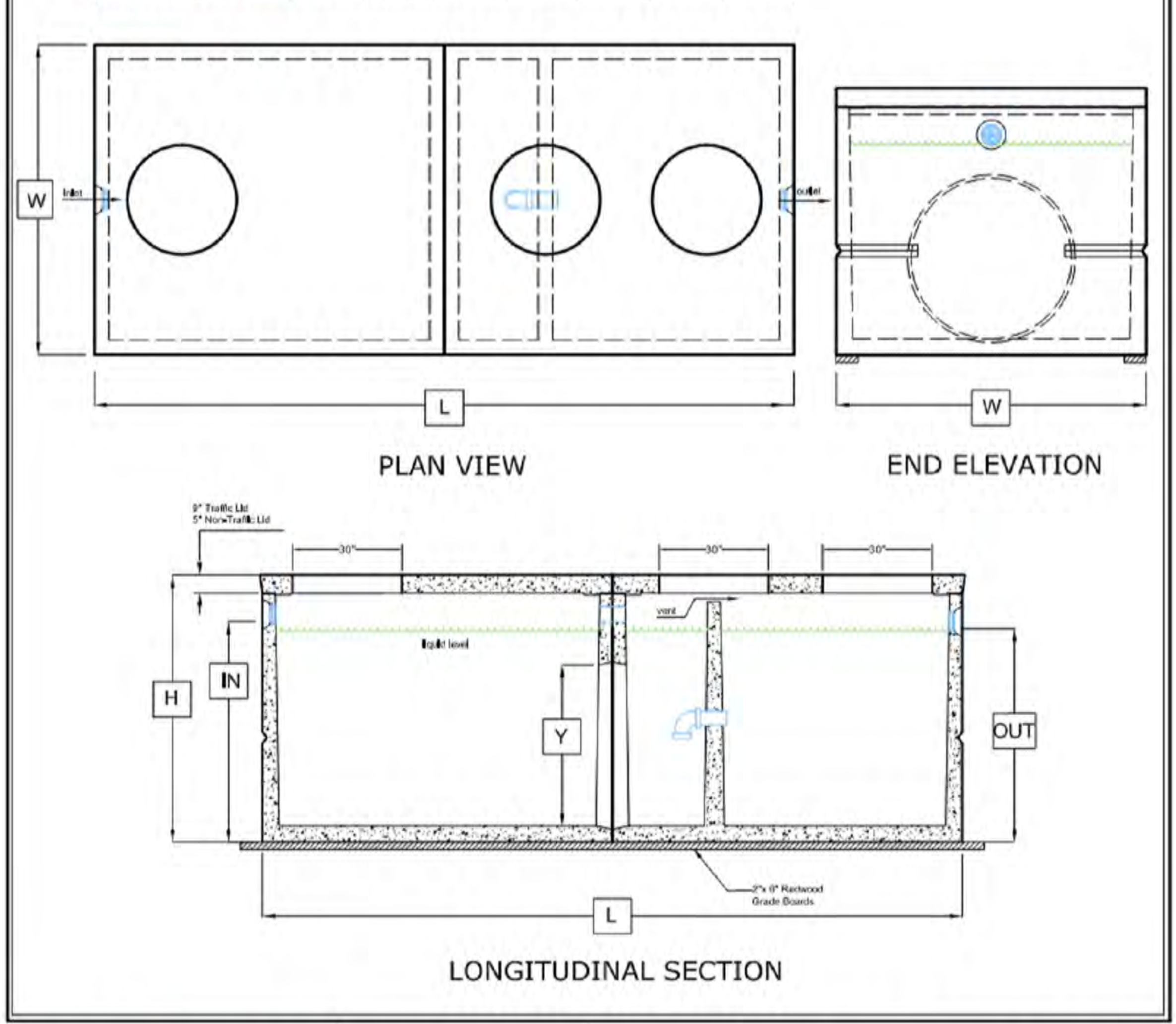
LOCATION 3561 FOOTHILL ROAD CARPINTERIA, CA 93013 005–280–040
PROJECT NO. 19103
CLIENT MAGU FARMS, LLC

3561 FOOTHILL RD
MAGU FARMS OWTS DESIGN PLANS
SEPTIC SYSTEM LAYOUT

SHEET: SS2 OF: 4

DATE: JULY 29, 2020

	Outside Width w	Outside Length L	Outside Height H	Inlet (IN)	Outlet (OUT)	Y	Weight p/ Tank
2000 Gallon - NON TRAFFIC	6' - 2"	16' - 0	5' - 1"	4' - 0"	3' - 10"	3' - 0"	12,700
2000 Gallon - TRAFFIC	6' - 2"	16' - 0	5' - 5"	4' - 0"	3' - 10"	3' - 0"	13,600
2500 Gallon - NON TRAFFIC	6' - 2"	16' - 0	5' - 9"	4' - 9"	4' - 7"	3' - 8"	13,760
2500 Gallon - TRAFFIC	6' - 2"	16' - 0	6' - 1"	4' - 9"	4' - 7"	3' - 8"	16,820
3000 Gallon - NON TRAFFIC	7' - 1"	16' - 0"	6' - 1/2"	5' - 1/2"	4' - 10 1/2"	3' - 8"	16,060
3000 Gallon - TRAFFIC	7' - 1"	16' - 0"	6' - 4 1/2"	5' 1/2"	4' - 10 1/2"	3' - 8"	19,800



PLAN VIEW

END ELEVATION

LONGITUDINAL SECTION

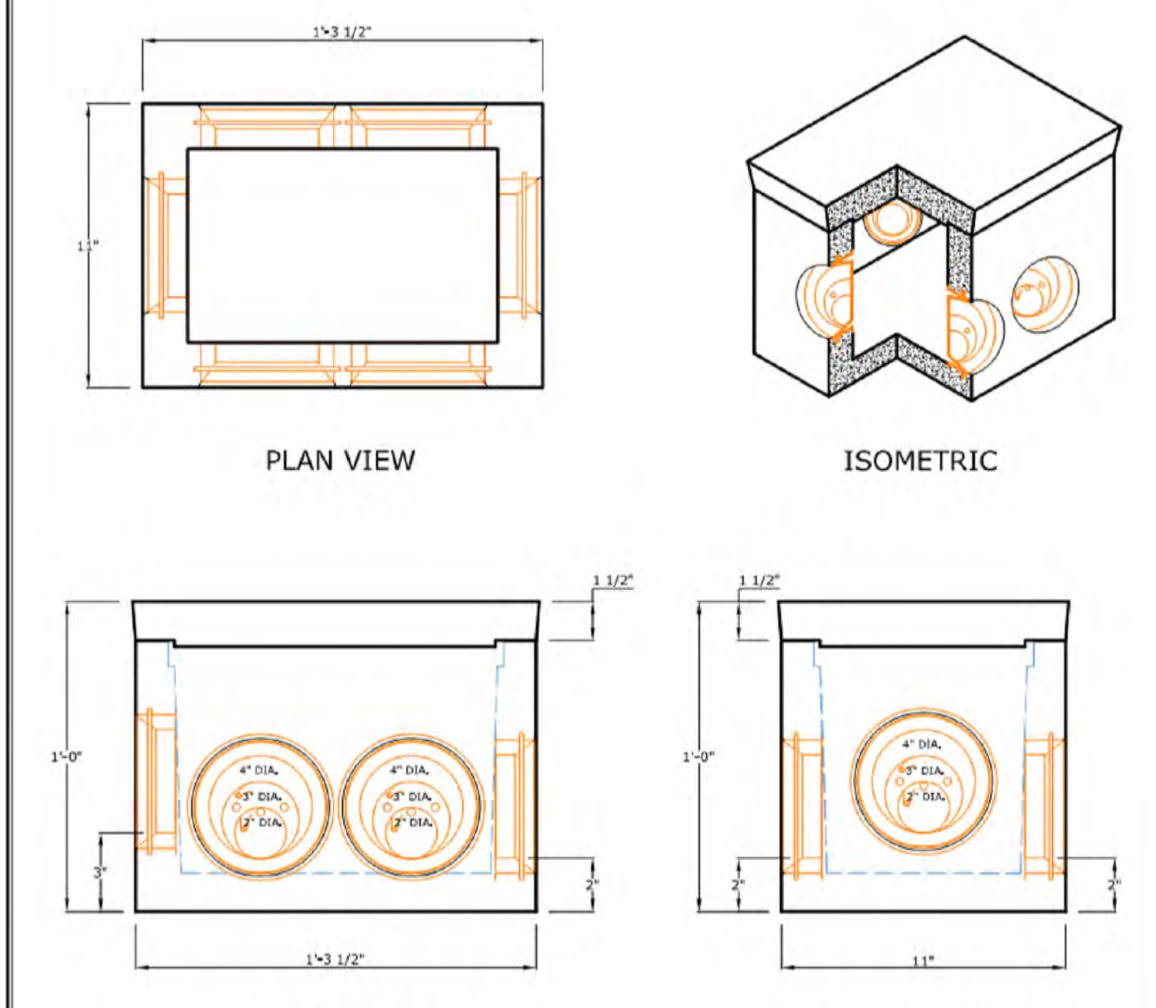
MID STATE Concrete Products Santa Maria, Ca

1625 E. DONOVAN RD., STE. C SANTA MARIA, CA 93454 PH (805) 928-2855 FAX (805) 928-2114 www.midstateconcrete.com

2000, 2500, & 3000 gal BATTERY TANKS

REV. 09/07

A 3,000 GALLON SEPTIC TANK — SCALE N.T.S.



PLAN VIEW

ISOMETRIC

FRONT ELEVATION

SIDE ELEVATION

NOTES:

1. Heights shown above are nominal dimensions. Actual dimensions vary to allow a ½" mortar or sealant joint, if needed.
2. Inlet and Outlet holes are cast in product wall using "Polylok Pipe Seal" low pressure pipe seals.
3. Wire mesh ASTM A 185

MID STATE Concrete Products Santa Maria, Ca

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5 - OUTLET DISTRIBUTION BOX

WT = 70 LBS.

REV. 09/07

B DISTRIBUTION BOX 5-OUTLET — SCALE N.T.S.

Orenco SYSTEMS — *Product Sheet*

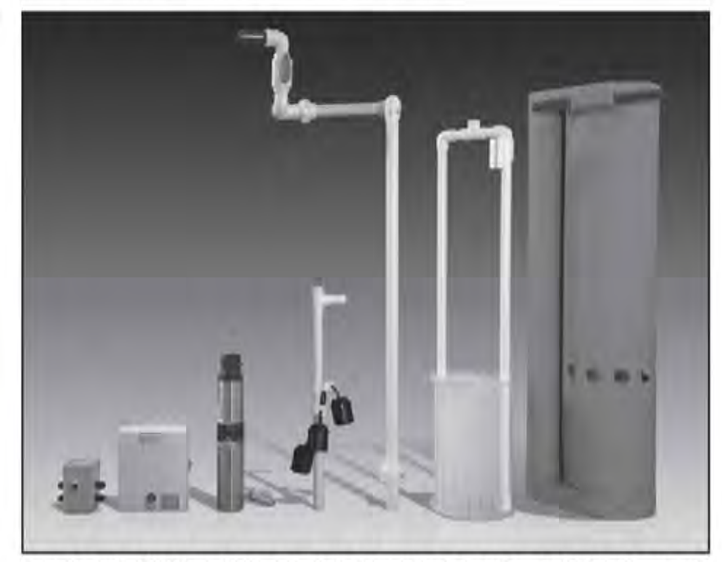
Biotube® ProPak™ Pump Package

Applications

Orenco's Biotube® ProPak™ Pump Package is a fully integrated pump package for wastewater applications. It is designed specifically for use in single-compartment or dual compartment septic tanks to filter and pump effluent to a drainfield or to secondary treatment— without the need for a separate pump tank.* Because the pump vault becomes the second tank.

The Biotube ProPak Pump Package includes the following components:

- ProPak™ pump vault with Biotube® filter cartridge
- 4-inch (100-mm) turbine effluent pump
- Float switches with "quick connect" collars
- Discharge plumbing assembly
- Splice box
- Demand-dosing control panel or timed-dosing panel ("dual-mode" available on digital timed-dose panels)



Orenco's new ProPak® Pump Package eliminates the need for a separate pump tank, saving money in equipment and installation. ProPak comes completely pre-packaged, with a 5-year limited warranty, and ready to install. No more "piecemeal pumping setups." Ask for your free ProPak Select™ design tool.*

*Where regulations allow

Standard Features & Benefits

- Drops right into a septic tank; no pump tank required*
- Saves money on equipment and installation; reduces septic system costs
- A complete system in one box; all parts designed to work together
- Fast and easy to select, install, and maintain
- Turbine pump lasts four times longer than centrifugal pumps
- Turbine pump withstands the frequent starts and stops that timed dosing requires
- Patented Biotube® filter has 14.5 ft^2 (1.35 m^2) of filter area; protects downstream components from clogging
- Snap-in float stem and adjustable float collars keep floats securely in position, speeding installation and servicing
- Built of molded polyethylene and PVC for long life
- Demand-dosing and timed-dosing systems available; systems with digital timed-dosing panels include dual-mode operation
- 5-year limited warranty on complete package
- Free ProPak Select™ CD-ROM for fast, error-free pump sizing and tank drawings with settings
- For more information, call Orenco at 800-348-9843 or 541-459-4449

*Where regulations allow

To Order

Call your nearest Orenco Systems®, Inc. Distributor. For nearest Distributor, call Orenco at 800-348-9843, or visit www.orenco.com and click on "Where to Buy."

Orenco SYSTEMS

APS-BPP-1
Rev. 3.0 © 04/17
Page 1

Orenco Systems® Inc., 814 Airway Ave., Sutherlin, OR 97479 USA
800-348-9843 • 541-459-4449 • www.orenco.com

Orenco SYSTEMS — *Product Sheet*

Biotube® ProPak™ Components

4-in. (100-mm) **turbine effluent pump:**
- **20 gpm** (1.3 L/sec)
- **30 gpm** (1.9 L/sec)
- **50 gpm** (3.2 L/sec)

Float switches with collars:
- **Demand-dosing systems** high-level and on/off
- **Timed-dosing systems** high-level, timer off, and redundant off

Model Code for Ordering*

BPP [30] [TDD] - [SX]*

*SPECIFY DUAL PUMPS WHEN ORDERING

Standard options:
Blank = 57-in. (1448-mm) vault height, internal splice box, standard discharge assembly
68 = 68-in. (1727-mm) vault height
SX = external splice box
CW = cold weather discharge assembly
DB = drainback discharge assembly

Panel Application:
DD = demand dosing
TDA = timed dosing, analog timer
TDD = timed dosing, digital timer, elapsed time meter & counters

Pump flow rate (nominal):
20 = 20 gpm (1.3 L/sec)
30 = 30 gpm (1.9 L/sec)
50 = 50 gpm (3.2 L/sec)

Biotube® ProPak™ pump vault

APS-BPP-1
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Page 2

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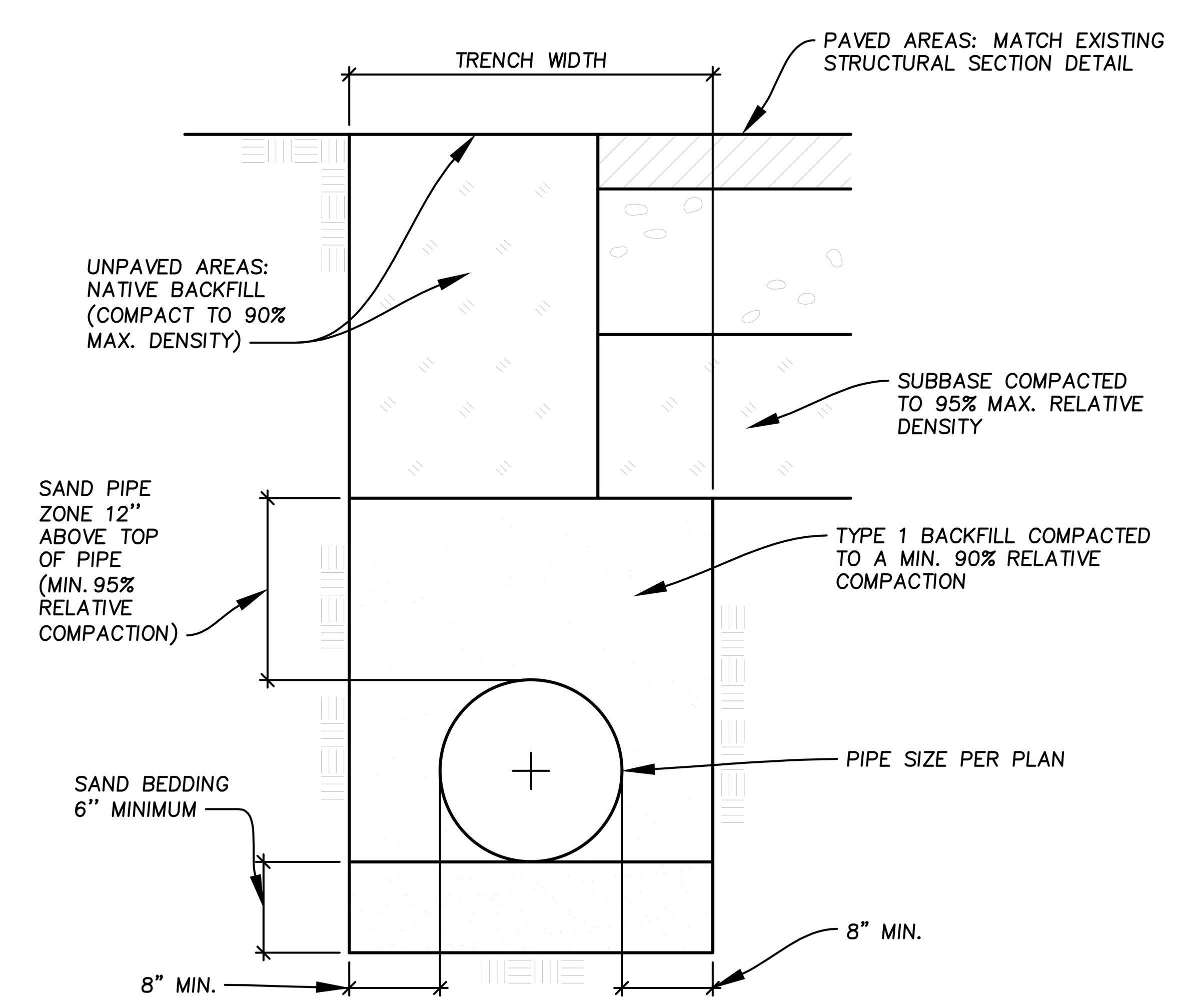
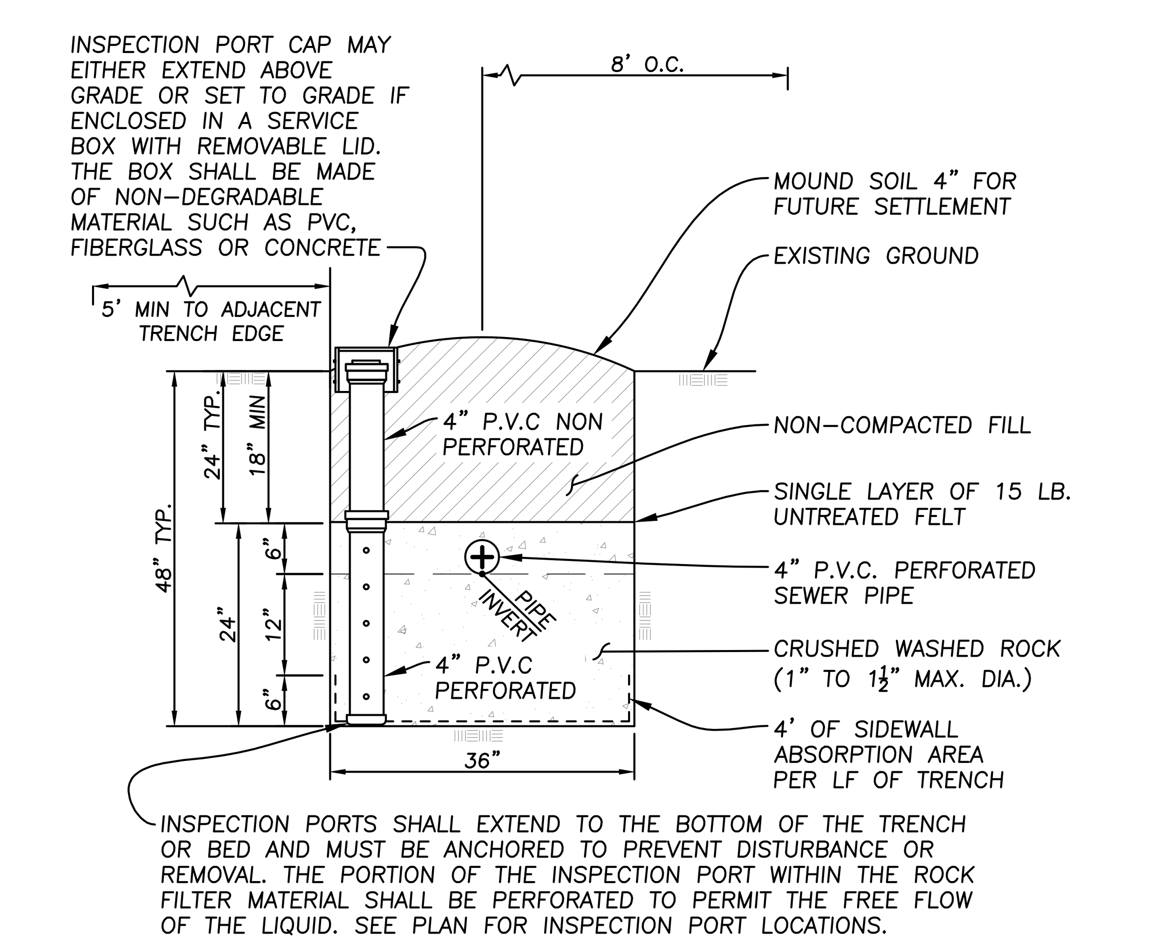
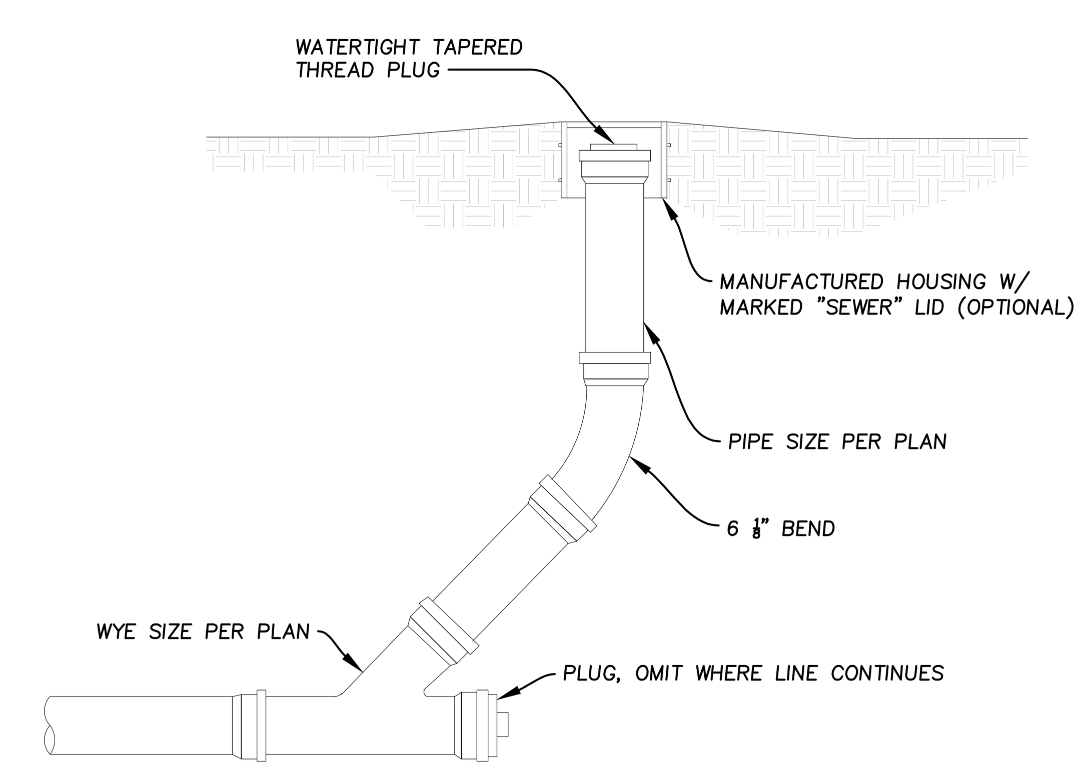
C TYPICAL PUMP ASSEMBLY PACKAGE — SCALE N.T.S.



D TRENCH DETAIL — SCALE N.T.S.



E TYPICAL LEACH LINE DETAIL — SCALE N.T.S.



F TYP. CLEANOUT DETAIL — SCALE N.T.S.

COAST ENGINEERING & SURVEY, INC.
22 ANACAPA ST. #2
SANTA BARBARA, CA. 93101
PH: (805) 439-1920

REGISTERED PROFESSIONAL ENGINEER SCOTT T. SMITH No. 74592 CIVIL STATE OF CALIFORNIA — PRELIMINARY

REVISIONS: DATE: DESCRIPTION:

DRAWN DEA — CHECKED STS

LOCATION: 3561 FOOTHILL RD CARPINTERIA, CA. 93013 APN: 005-280-040

PROJECT NO. 19103

CLIENT: MAGU FARMS, LLC

3561 FOOTHILL RD
MAGU FARMS OWTS DESIGN PLANS
DETAILS

SHEET: SS3 OF: 4

DATE: JULY 29, 2020

Orenco Systems — Technical Data Sheet

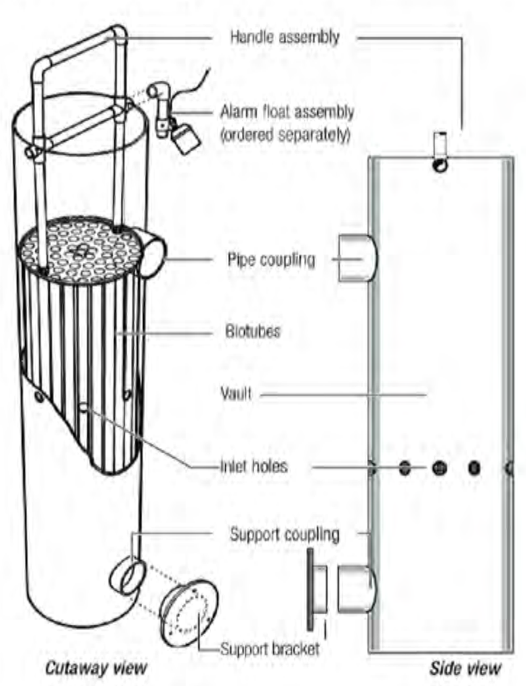
8-in. to 15-in. Dia. Biotube Effluent Filters

Applications

Orenco® 8-inch to 15-inch Biotube® Effluent Filters are designed to remove solids from effluent leaving commercial septic tanks. They can be used in new and existing tanks.

General

Orenco® 8-inch to 15-inch Biotube® Effluent Filters* are used to improve the quality of effluent exiting a commercial septic tank. The Biotube cartridge fits snugly in the vault and is removable for maintenance, the handle assembly snaps into the notches in the top of the vault, and the tee handle can be extended for easy removal of the cartridge. A "base inlet" model (see p. 2) is available for low-profile tanks. An optional slide rail system, available on larger models, simplifies installation and provides tank access for servicing.



Cutaway view   Side view

* Orenco® Biotube® Effluent Filters are covered under multiple U.S. and international patents.

Standard Models

FT0854-36, FT0822-14B, FT1254-36, FT1554-36, FT1254-36AR

Product Code Diagrams

FT [ ] 12 54 - 36 [ ]

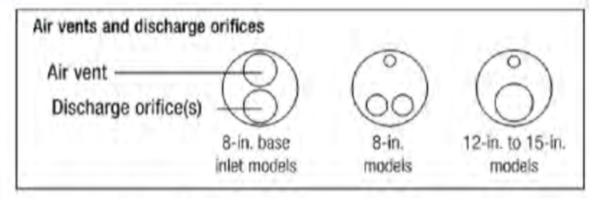
FT 08 22 - 14 B [ ]

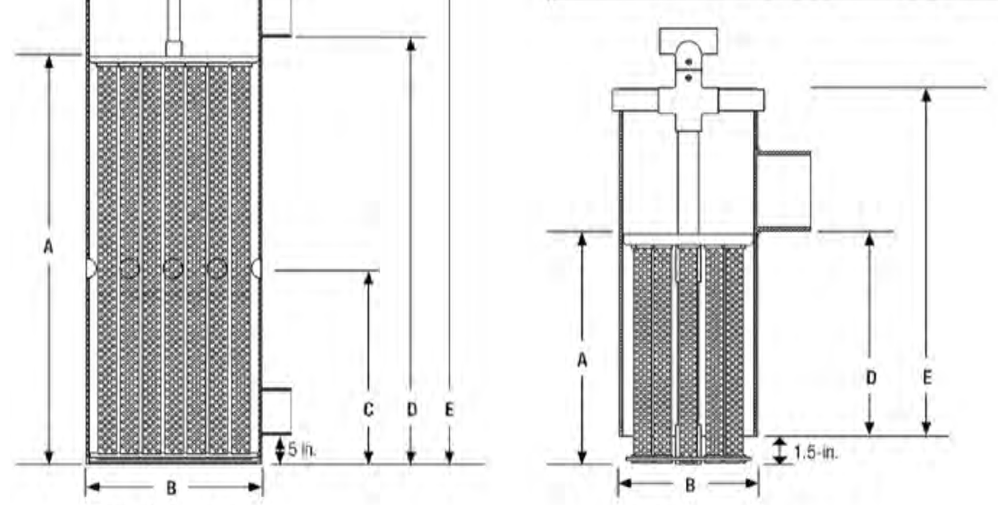
Materials of Construction

Vault	PVC
Pipe coupling	PVC
Handle components	PVC
Support coupling and bracket	PVC
Biotube® cartridge	Polypropylene and polyethylene

Note: Support coupling and support bracket are available on 12-inch and 15-inch filters only.

Orenco Systems — Technical Data Sheet





Standard model   *Base inlet model*

Specifications

Model	FT0854-36	FT0822-14B	FT1254-36	FT1254-36AR	FT1554-36
A - Cartridge height, in.	36	14	36	36	36
B - Nominal diameter, in.	8	8	12	12	15
C - Inlet hole height*, in.	22	n/a†	22	22	22
D - Vault base to invert height, in.	38	13	38	38	38
E - Vault height	54	22	54	54	54
Number of inlet holes	8	n/a	8	8	8
Inlet hole diameter, in.	1.375	n/a	1.375	1.375	1.375
Number of discharge orifices	2	1	1	1	1
Discharge orifice diameter, in.	1.125	1.750	2	2	2
Pipe coupling diameter, in.	4	4	4	4	4
Number of air vents	1	1	1	1	1
Air vent diameter, in.	0.75	1.750	0.75	0.75	0.75
Filter surface area‡, ft^2	14.6	6.0	30.0	30.0	50.5
Flow area**, ft^2	4.4	1.8	9.0	9.0	15.2

* Inlet hole height can vary depending on the configuration of the tank. Optimum hole height is 65-75% of the minimum liquid level.
† No inlet holes required, because influent enters between the vault base and the bottom of the filter cartridge.
‡ Filter area is defined as the total surface area of all individual Biotubes® within the filter cartridge.
** Flow area is defined as the total open area (area of the mesh openings) of all the individual Biotubes within the filter cartridge.

G TYPICAL EFFLUENT FILTER — SCALE N.T.S.

Orenco Systems — Product Sheet

MVP-Duplex Control Panel

Applications

The MVP-Duplex control panel has a dual-mode feature, making it ideal for both timed- and demand-dosing in two-pump alternating systems for onsite wastewater and water treatment systems. All MVPs include an easy-to-use, programmable logic unit that incorporates many timing and logic functions, such as multiple timing intervals to adjust for changing flow conditions and built-in elapsed time meters and cycle counters.

Easy to set, accurate, and surprisingly affordable, the MVP brings intelligent control technology to the water and wastewater handling industries.

Standard Features & Benefits

- Eight inputs and four outputs
- Simple setting instructions are easy to remember; parameters have understandable abbreviations
- Large, backlit LCD display is easy to read
- Intervals as long as 99 hours can be set with an accuracy of ±1%
- Programmable for timed or on-demand dosing
- For timed dosing, multiple timer intervals (normal timer, override timer) can be set to accommodate varying flow conditions
- Built-in programming keys allow reprogramming in the field without a portable computer
- Ability to use one model of float for all functions simplifies installation
- UL 508 listed in US and Canada
- Complete instructions and diagrams come with panel and are affixed to the inside, for in-field reference
- Three-year limited warranty

Standard Features for System Maintenance

- Totalized and resettable data for:
  - Elapsed pump run times
  - Pump cycle counts
  - Low-and high-level alarms
  - Overrides (timed-dose mode only)
  - Power failures
- Different alarm/light signals for different alarm conditions; alarm screen activates when an alarm condition occurs and the alarm type, start time, and date are reported automatically
- Redundant off feature as standard
- Automatic reactivation of silenced alarm (when problem is not corrected) prevents system failure
- 120 V output for remote alarm activation as standard
- Float status screen with error notification and float position indication
- Timed delays on float inputs prevent chattering and pump burnout

To Order

Call your nearest Orenco Systems®, Inc. Distributor. For nearest Distributor, call Orenco at 800-348-9843, or visit www.orenco.com and click on "Distributor Locator."

Orenco Systems — Product Sheet

Optional Features & Benefits

- Removable EEPROM card for reprogramming the panel in the shop or in the field
- UL698A (Intrinsically Safe listing) for use in hazardous locations
- Current sensor to detect pump failures in multiple-pump systems
- Self-regulating anti-condensation heater (which radiates additional wattage as temperature drops)
- Pump run light to indicate that the pump is currently activated
- Power light to indicate that the control panel is energized
- Surge arrestor to reduce problems caused by power surges and spikes

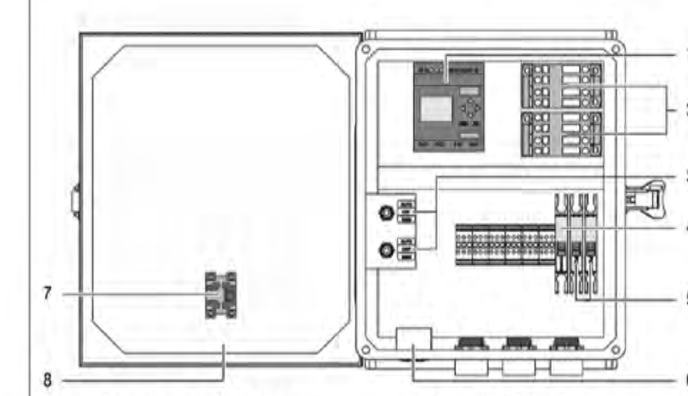
Standard Models

MVP-DAX1DM, MVP-DAX2DM

Model Code for Ordering

MVP - DAX [ ] [ ] DM [ ]*

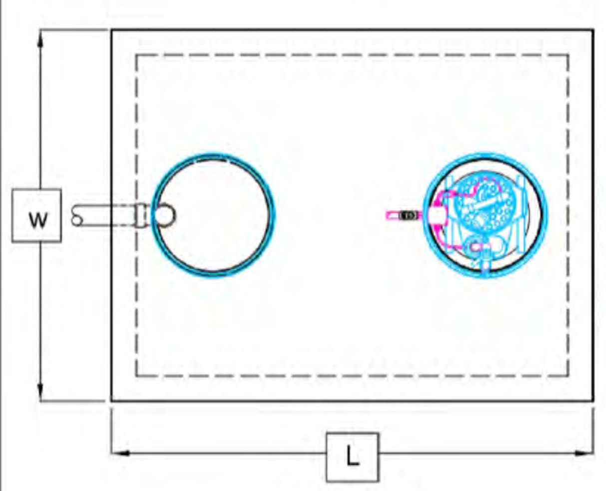
*CONTRACTOR TO VERIFY PUMP CONTROLLER WITH MANUFACTURER



1. Programmable Logic Unit
2. Motor-Start Contactors
3. Toggle Switch
4. Controls Circuit Breaker
5. Pump Circuit Breakers
6. Audio Alarm
7. Visual Alarm
8. Panel Enclosure

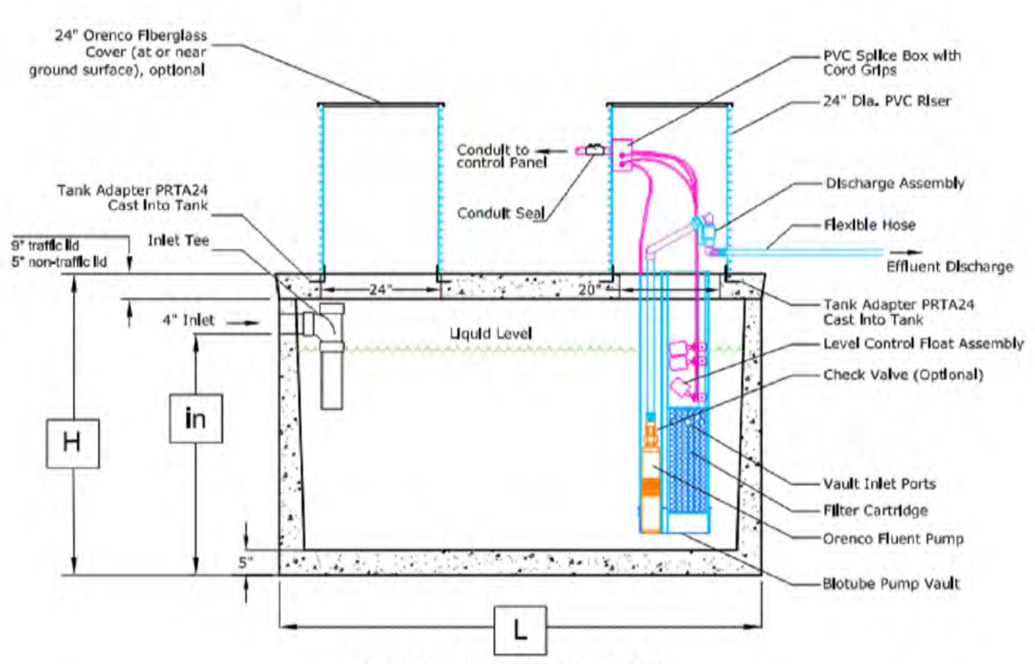
c UL us LISTED

H TYPICAL DUAL PUMP CONTROL UNIT — SCALE N.T.S.



PLAN VIEW

	Outside Width w	Outside Length L	Outside Height H	Inlet (IN)	Outlet (OUT)	Weight
800 Gallon - NON TRAFFIC	6' - 2"	8' - 0	4' - 4"	3' - 4"	3' - 2"	11,200
800 Gallon - TRAFFIC	6' - 2"	8' - 0	4' - 8"	3' - 4"	3' - 2"	12,740
1000 Gallon - NON TRAFFIC	6' - 2"	8' - 0	5' - 1"	4' - 0"	3' - 10"	12,700
1000 Gallon - TRAFFIC	6' - 2"	8' - 0	5' - 5"	4' - 0"	3' - 10"	13,600



LONGITUDINAL SECTION

MID STATE Concrete Products Santa Maria, Ca

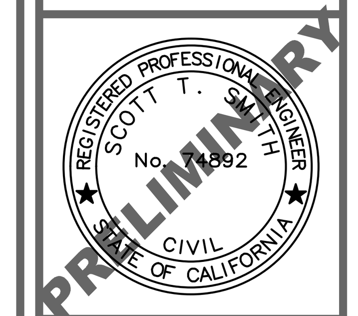
1625 E. DONOVAN RD., STE. C
SANTA MARIA, CA 93454
PH: (805) 928-2855
FAX: (805) 928-2114
www.midstateconcrete.com

CONCRETE DOSING TANKS

REV. 09/07

I 1,000 GALLON DOSING TANK — SCALE N.T.S.

COAST ENGINEERING & SURVEY, INC.
22 ANACAPA ST. #2
SANTA BARBARA, CA. 93101
PH: (805) 439-1920



REVISIONS: DATE: DESCRIPTION:

DRAWN DEA
CHECKED STS

LOCATION
3561 FOOTHILL RD
CARPINTERIA, CA. 93013
APN: 005-280-040

PROJECT NO. 19103

CLIENT MAGU FARMS, LLC

3561 FOOTHILL RD
MAGU FARMS OWTS DESIGN PLANS
DETAILS

SHEET: **SS4** OF: 4

DATE: JULY 29, 2020

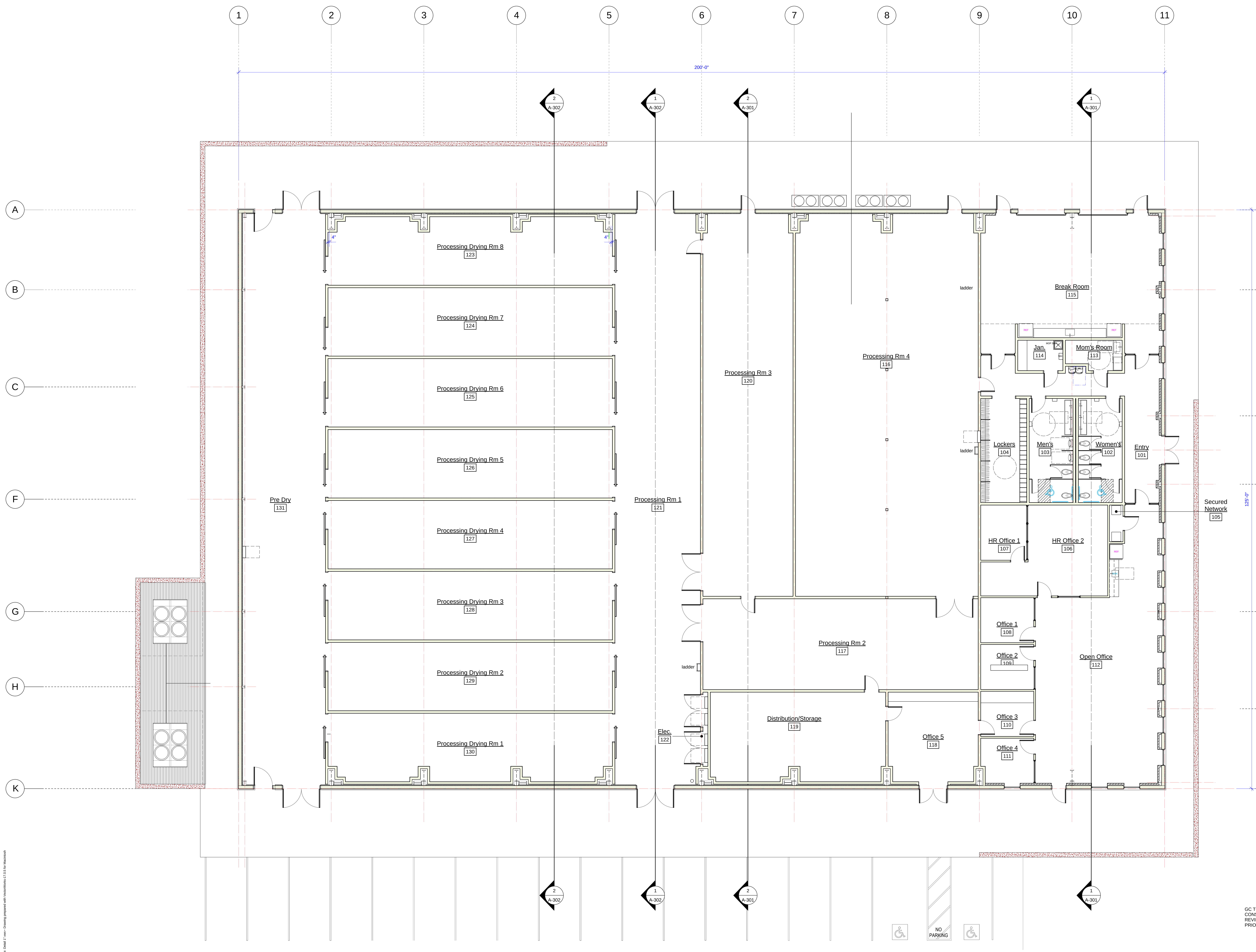
andrulaitis+mixon

2040 ALAMEDA PADRE SERRA
SANTA BARBARA SUITE 107
CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

3561 Foothill Road
Carpinteria, CA



1 FLOOR PLAN

Scale: 1/8" = 1'-0"

GC TO PROVIDE SPRINKLER PLANS TO ARCHITECT AND CONSULTANTS FOR REVIEW PRIOR TO FIRE DEPARTMENT REVIEW, AFTER FIRE DEPARTMENT APPROVAL AND PRIOR TO INSTALLATION

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
01.31.23
Renewal Date
STATE OF CALIFORNIA

JOB NUMBER

18.012

PERMIT NUMBER

CONTENTS

PROPOSED FLOOR PLAN

SUBMITTALS

DATE	TYPE

ISSUE DATE

05.21.2021

REVISIONS

NO.	DATE	TYPE

A-101

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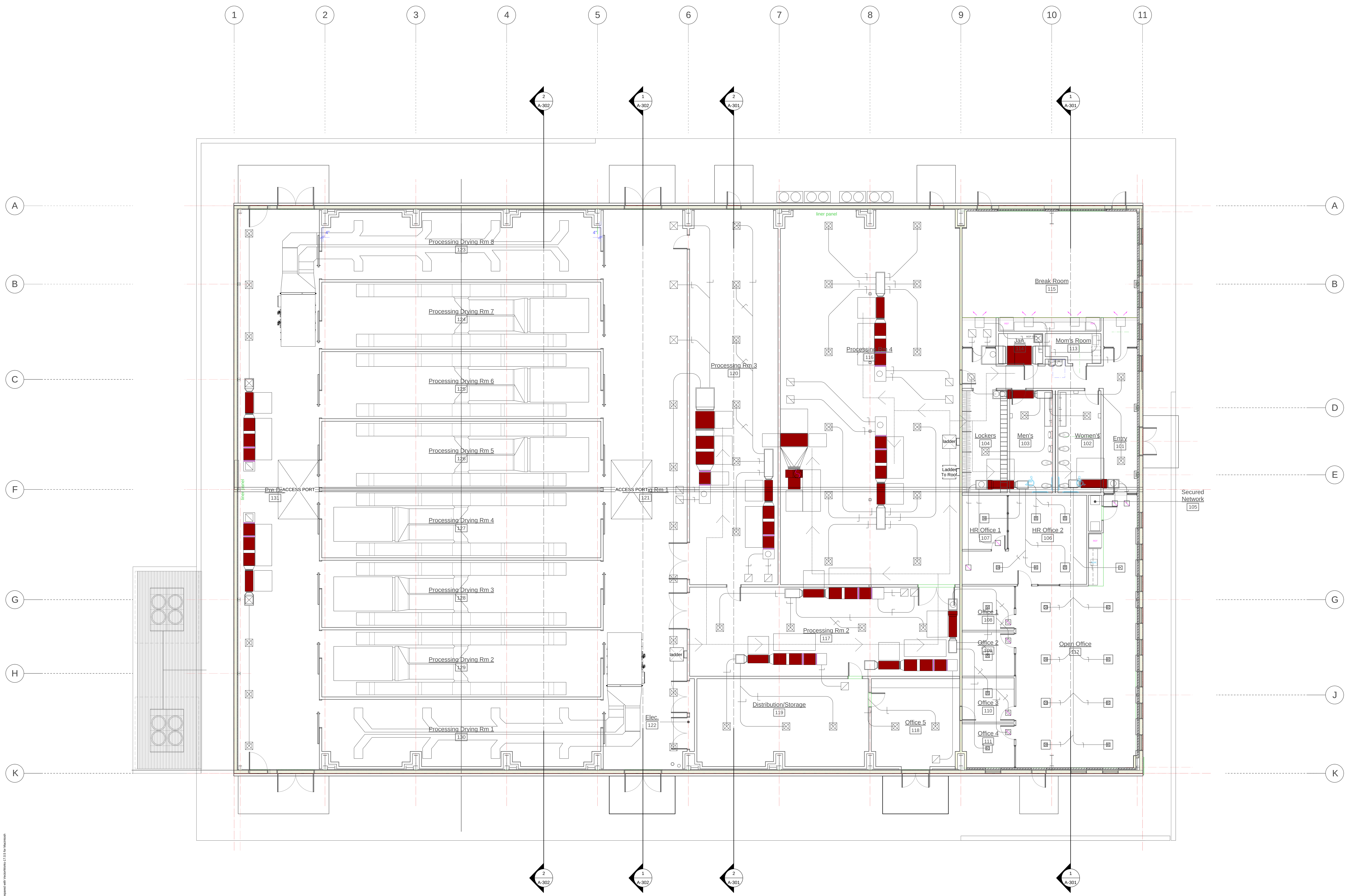
SANTA BARBARA CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

3561 Foothill Road
Carpinteria, CA



1 MECHANICAL PLATFORM
Scale: 1/8" = 1'-0"

LICENSE

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Kent B. Mixon
No. C 27001
01.31.23
Renewal Date
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CONTENTS

MECHANICAL PLATFORM

SUBMITTALS

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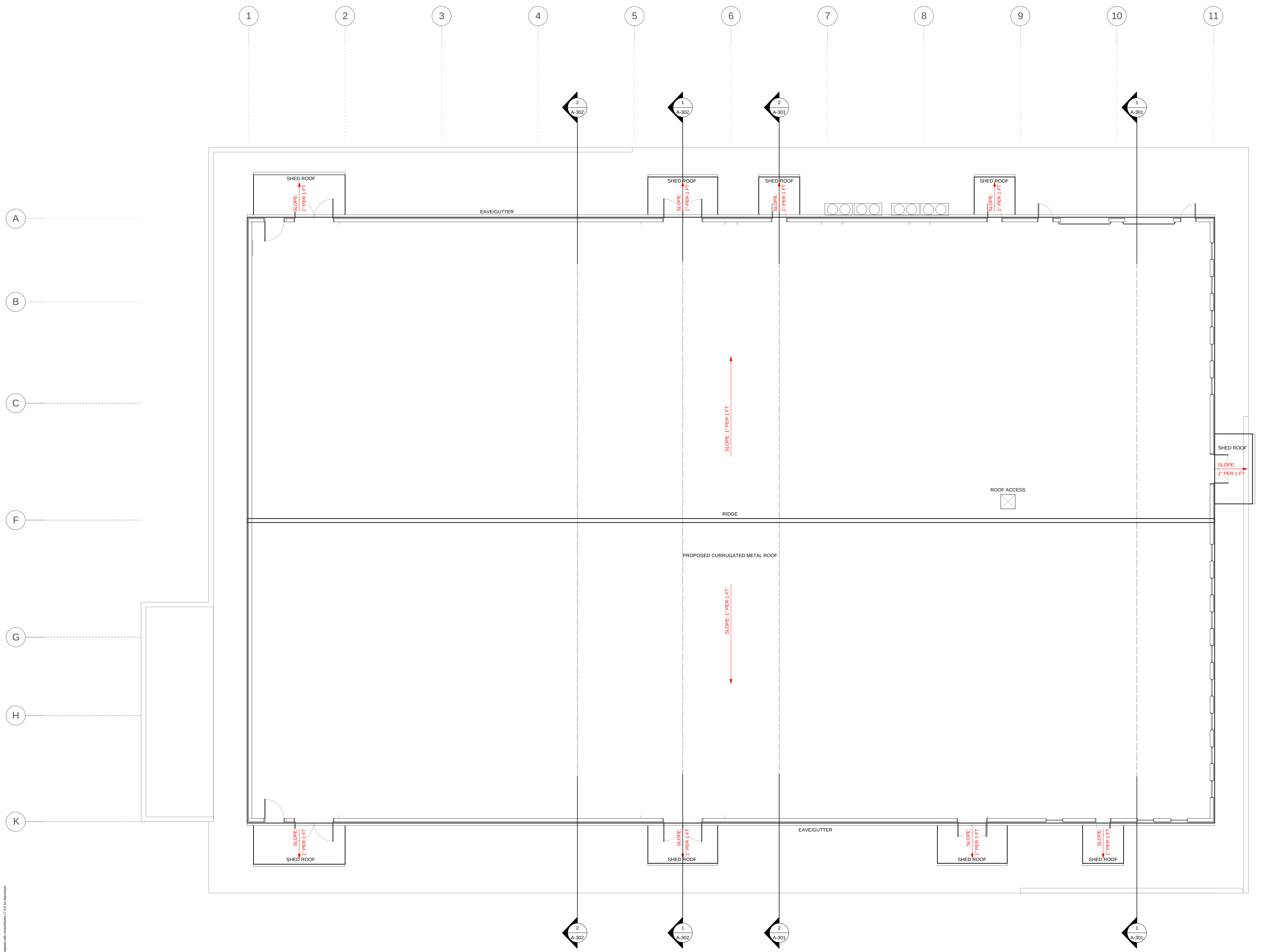
NO.	DATE	TYPE

A-103



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

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2040 ALAMEDA PADRE SERRA
SANTA BARBARA SUITE 107
CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

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Carpinteria, CA

LICENSE

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ROOF PLAN

SUBMITTALS

DATE	TYPE

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NO.	DATE	TYPE

A-104

Tuesday, September 24, 2013 9:55:22 AM • File: Detail 1".vwx • Drawing prepared with VectorWorks-17.0.5 for Macintosh

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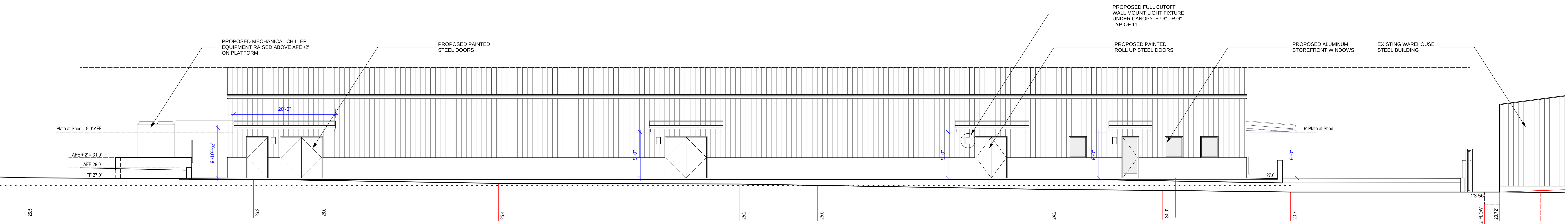
CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

3561 Foothill Road
Carpinteria, CA

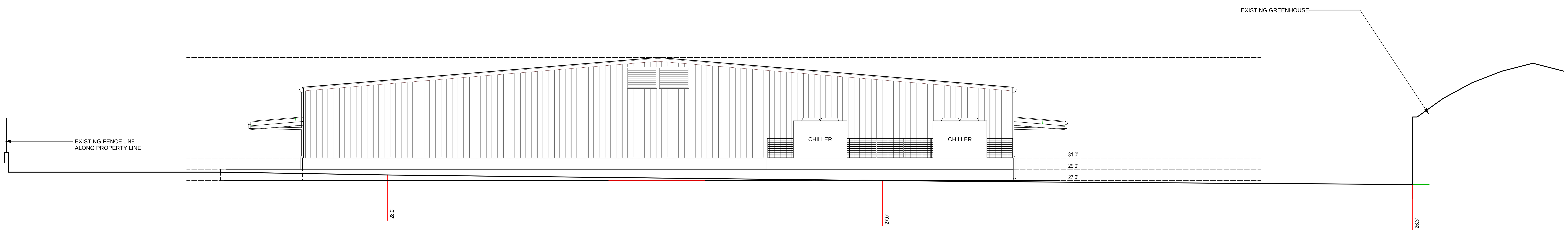


1 WEST ELEVATION

Scale: 1/8" = 1'-0"

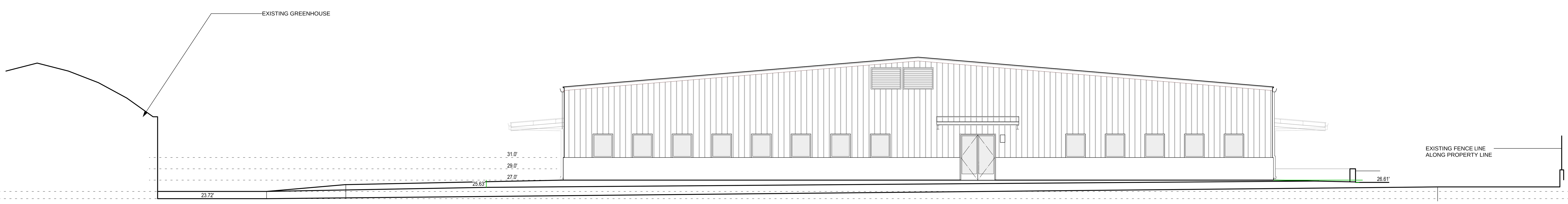
2 EAST ELEVATION

Scale: 1/8" = 1'-0"



3 NORTH ELEVATION

Scale: 1/8" = 1'-0"



4 SOUTH ELEVATION

Scale: 1/8" = 1'-0"

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
01.31.23
Renewal Date
STATE OF CALIFORNIA

JOB NUMBER
18.012

PERMIT NUMBER

CONTENTS

PROPOSED EXTERIOR ELEVATIONS

SUBMITTALS

DATE	TYPE

ISSUE DATE
05.21.2021

REVISIONS

NO.	DATE	TYPE

A-201

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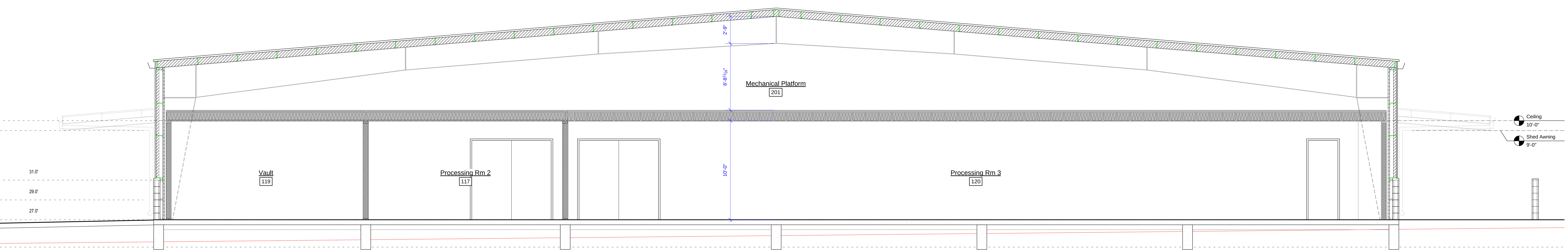
SANTA BARBARA SUITE 107
CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

3561 Foothill Road
Carpinteria, CA



2 BUILDING SECTION
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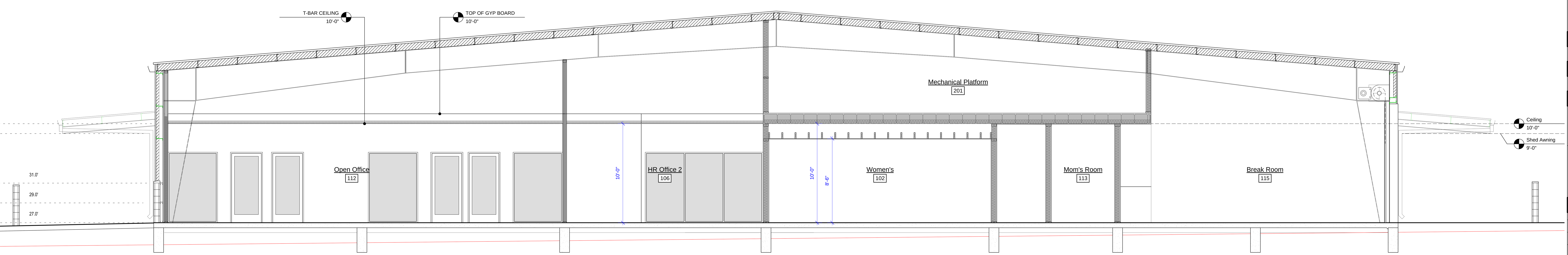


1 BUILDING SECTION
Scale: 1/4" = 1'-0"

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
STATE OF CALIFORNIA

JOB NUMBER
18.012

PERMIT NUMBER

CONTENTS

PROPOSED
BUILDING SECTIONS

SUBMITTALS

DATE	TYPE

ISSUE DATE
05.21.2021

REVISIONS

NO.	DATE	TYPE

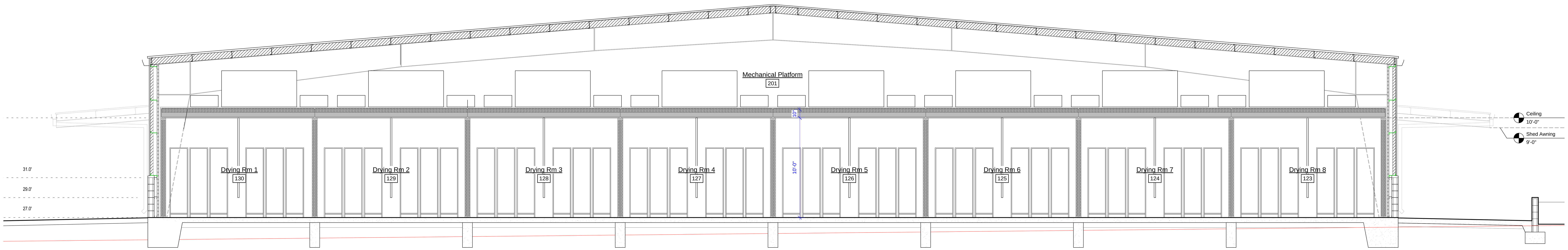
A-301

andrulaitis+mixon

2040 ALAMEDA PADRE SERRA
SANTA BARBARA SUITE 107
CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building
3561 Foothill Road
Carpinteria, CA



2 BUILDING SECTION
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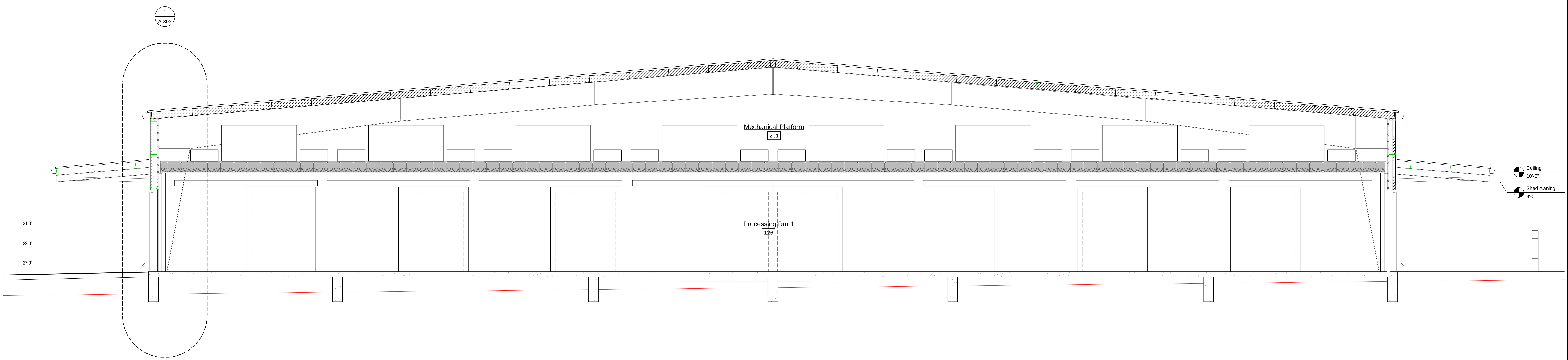


1 BUILDING SECTION
Scale: 1/4" = 1'-0"

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
01.31.23
Renewal Date
STATE OF CALIFORNIA

JOB NUMBER

18.012

PERMIT NUMBER

CONTENTS

PROPOSED
BUILDING SECTIONS

SUBMITTALS

DATE	TYPE

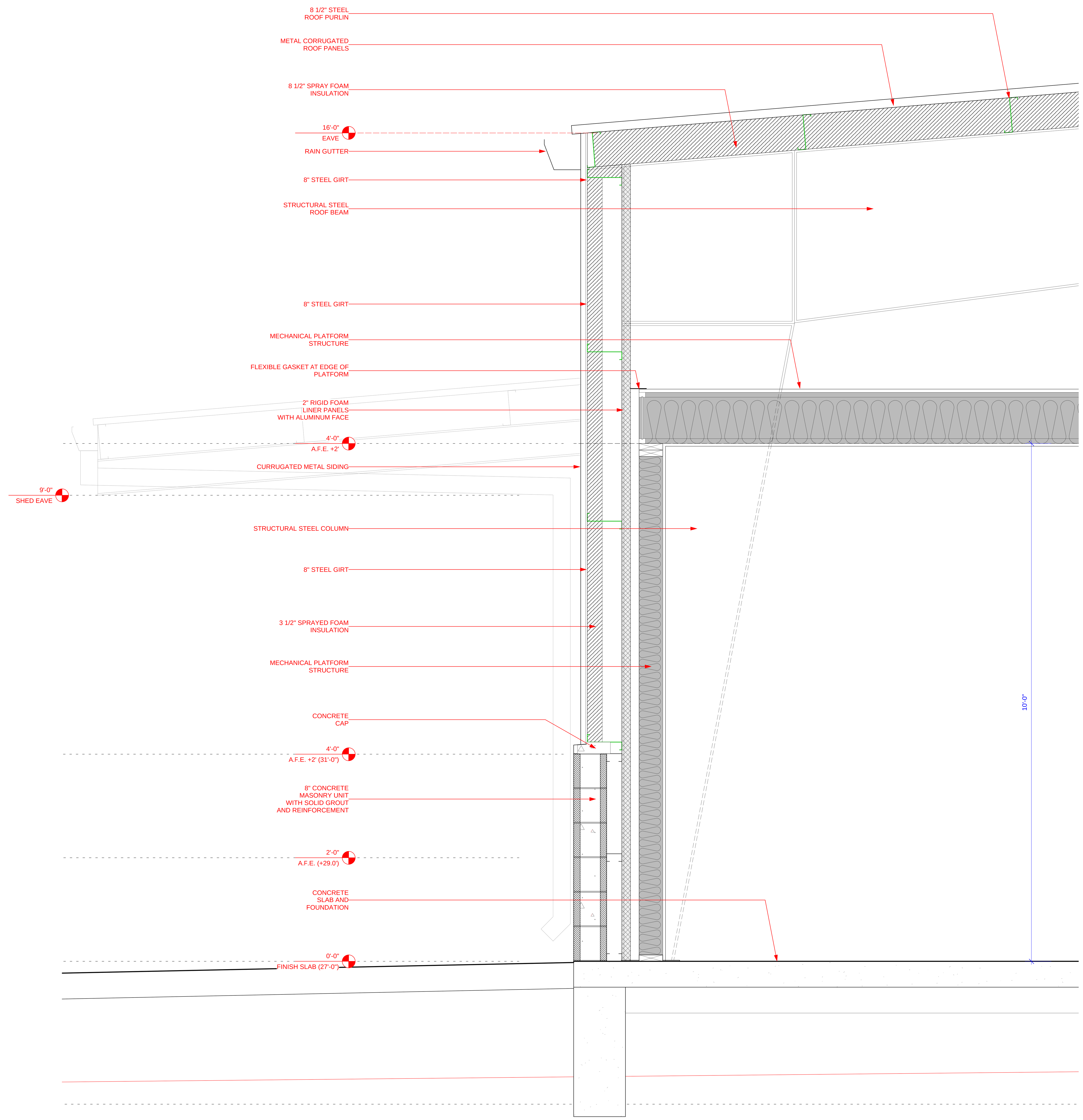
ISSUE DATE

05.21.2021

REVISIONS

NO.	DATE	TYPE

A-302



1 WALL SECTION
Scale: 1" = 1'-0"

andrulaitis+mixon
2040 ALAMEDA PADRE SERRA
SANTA BARBARA SUITE 107
CALIFORNIA 805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

3561 Foothill Road
Carpinteria, CA

LICENSE

LICENSED ARCHITECT
Kent B. Mixon
No. C 27001
01.31.23
Renewal Date
STATE OF CALIFORNIA

JOB NUMBER
18.012

PERMIT NUMBER

CONTENTS

PROPOSED
WALL SECTIONS

SUBMITTALS

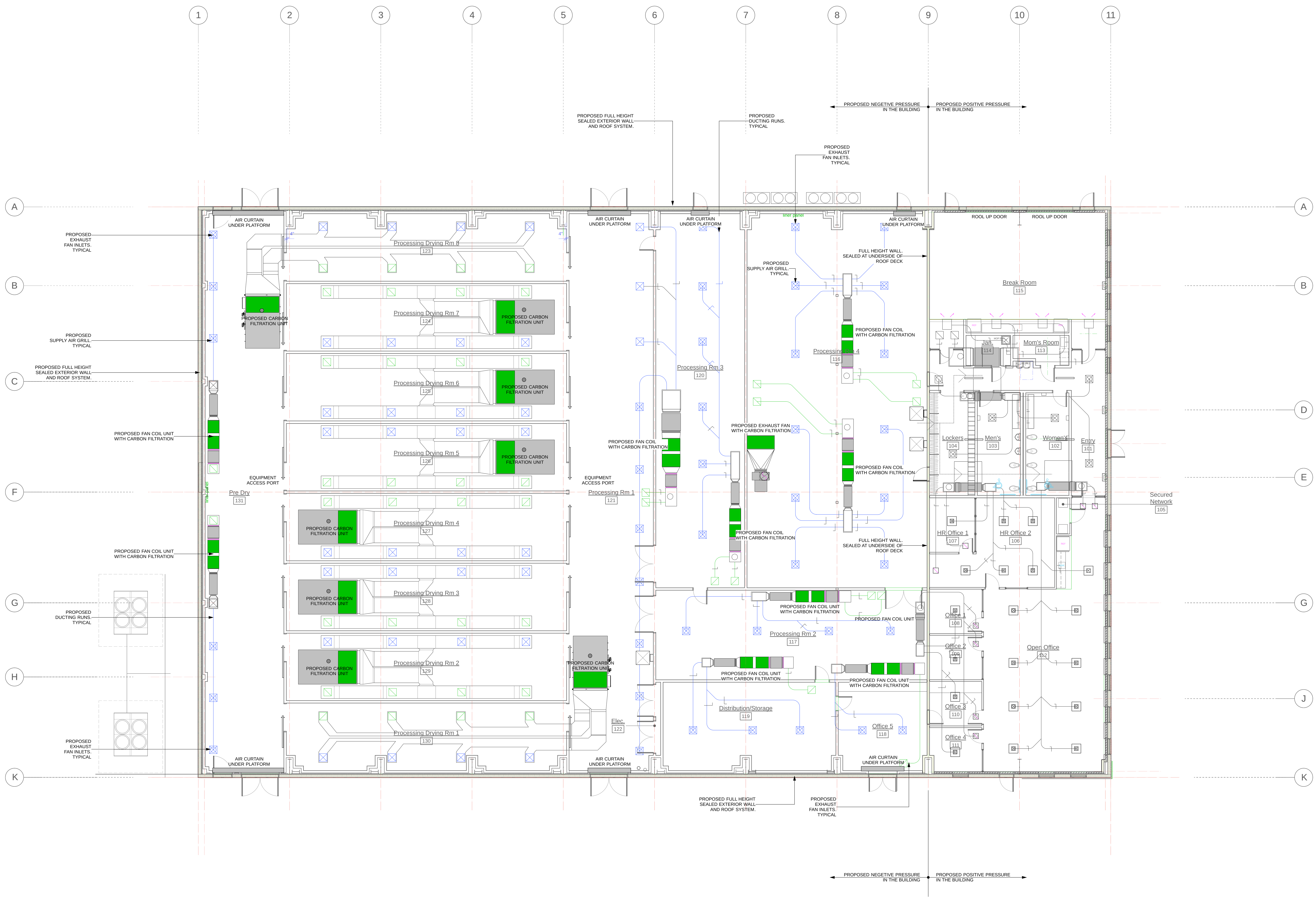
DATE	TYPE

ISSUE DATE
05.21.2021

REVISIONS

NO.	DATE	TYPE

A-303



1 ODOR ABATEMENT FLOOR PLAN

Scale: 1/8" = 1'-0"

andrulaitis+mixon

2040 ALAMEDA PADRE SERRA SUITE 107
SANTA BARBARA CALIFORNIA
805 899 2528

Proposed Project/Remodel for:

MAGU Farms, LLC - Processing Building

3561 Foothill Road
Carpinteria, CA

LICENSE

LICENSED ARCHITECT Kent B. Mixon No. C 27001 STATE OF CALIFORNIA

JOB NUMBER	18.012
PERMIT NUMBER	
CONTENTS	MECHANICAL PLATFORM
SUBMITTALS	
ISSUE DATE	10.14.2021
REVISIONS	

OA-101