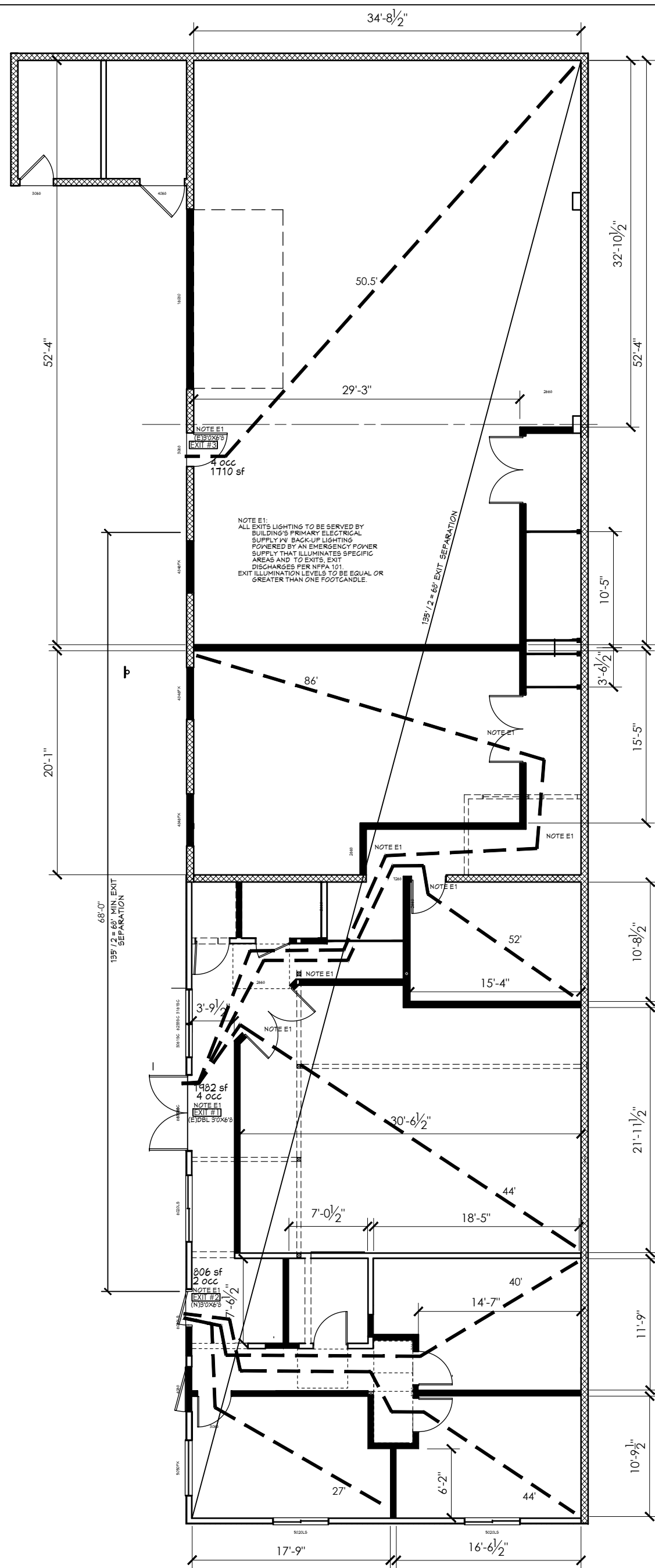
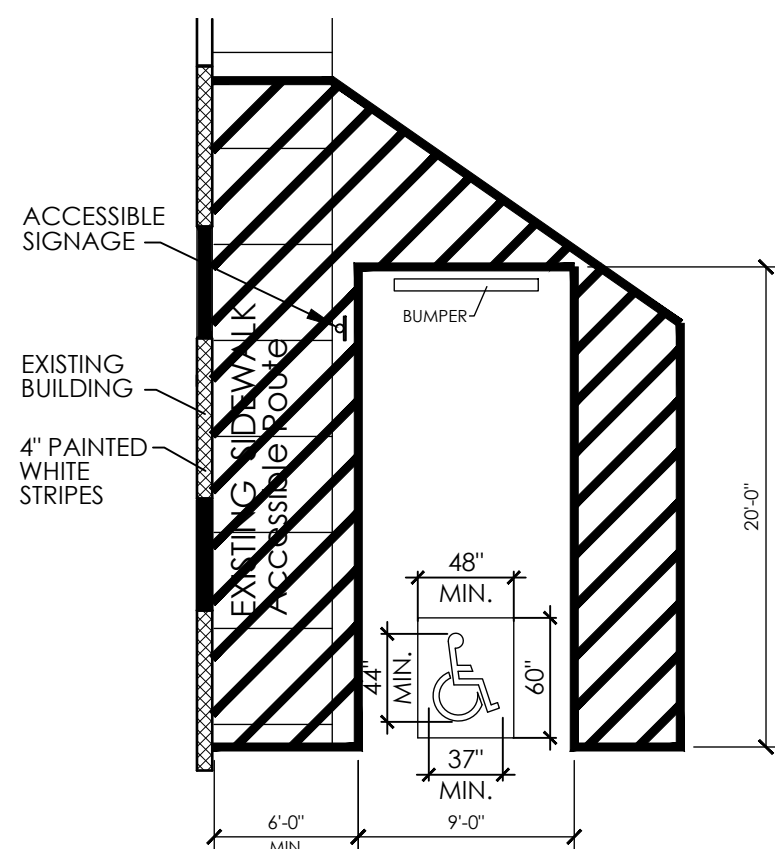
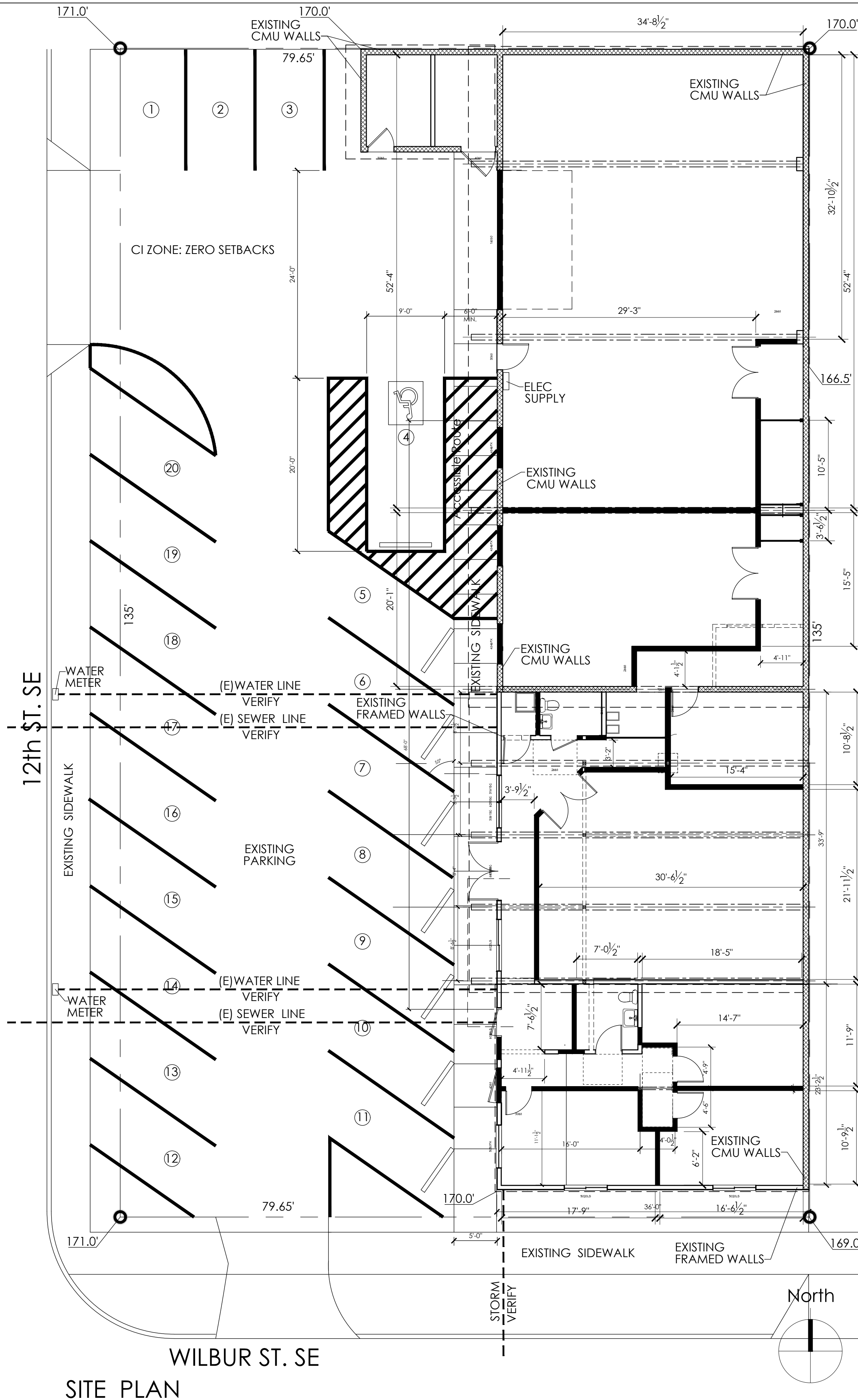




EXITING PLAN
SCALE: 1" = 10' 0"



1
A0 ACCESSIBLE PARKING SPACE
SCALE: 1/8" = 1' 0"



SITE PLAN
SCALE: 1/8" = 1' 0"

EXITING PLAN
SCALE: 1" = 10' 0"

GENERAL BUILDING INFORMATION

BUILDING 10 YEAR LEASE:

PROPERTY OWNER: MJLEISTEN LLC
MIKE LEISTEN, 5914 BALLEymeade ST SE, SALEM, OR 97306
503-585-4759

PERMIT APPLICANT: CSK CONSTRUCTION
17799 SW SHASTA TRAIL,
TUALATIN, OR 97062

ATTN: Seung (KC) Choi
503-888-8498

ARCHITECT: Clinton Pearson Mobile: 971-570-1606
11076 SW Eschman Way, Tigard, OR 97223
by Architect

STRUCTURAL: by Architect

PROJECT ADDRESS: 1290 12TH St. SE Salem, OR 97302
LEGAL DESCRIPTION: Taxlot # 073W35BB09900, Tax Account: 596807, Acres: 0.25 AC
ZONING: IC COMMERCIAL, CMLSE LAT: 44.92510 LONG: -123.03030

APPLICABLE CODES

2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
(BASED ON 2021 IBC)

2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE
(OEEESC)(BASED ON ASHRAE Standard 90.1-2019)

2022 OREGON FIRE CODE (OFC)

2022 OREGON MECHANICAL SPECIALTY CODE (OMSC)

2021 OREGON PLUMBING SPECIALTY CODE (OPSC)

2021 OREGON ELECTRICAL SPECIALTY CODE (OESC)

2017 ICC A117.1-2017 ACCESSIBLE & USABLE BUILDINGS...

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

PROPERTY & BUILDING NARRATIVE & INFO + FLS CODE SUMMARY

CONVERT EXISTING AUTOMOTIVE REPAIR CENTER TO A CANNABIS GROWING OPERATION (NOT DISPENSARY OR PROCESSING). SITE AREA = 10,752.75 SF;
BUILDING FOOTPRINT 4,925 SF, INTERIOR 4540 SF.,
OCCUPANCY & USE (chapter 3): Marijuana Grow Facilities (Greenhouse) F-1 Occupancy
per 306.2.

BUILDING HEIGHT & AREAS (chapter 5): Type Vb 15'<40' allow per Table 504.3;
F-1 NS 8,500 Type Vb 4,925 sf < 8,500 sf OK per Table 506.2; No Sprinklers req'd.
One Story.

CONSTRUCTION (chapter 6): Type Vb= 0 Hours all elements. Section 602 fire separation
based on distance. x<5' = 2 hrs. See 706.1.1 Party walls.

FIRE & SMOKE PROTECTION FEATURES & LIFE SAFETY FEATURES (chapter 7):

Existing to remain, except where door & windows are removed.

Safety glazing at new door Exit # 2.

INTERIOR FINISHES (chapter 8)

NonSprinklered Wall & Ceiling finishes: Exit passage ways Class B finishes
Enclosed Rooms & Spaces, Class C finishes.

MEANS OF EGRESS (chapter 10)

OCCUPANT LOAD (chapter 10) SUM TABLE 1004.1.2

WAREHOUSES 500 SF GROSS / OCC 4540 sf / 500 sf per occ = 10 OCCUPANTS;
Per Section 1008 Provide exit illumination. Illumination powered by building electrical
system at Exit passageways, Vestibules, and Exit landings. Per 1008.3.3 Electrical
equipment rooms, Generator rooms, Public Restrooms to automatically illuminated for
not less than 90 minutes with emergency power.

ACCESSIBILITY (chapter 11)

Per 1102.1.2.5 Door opening force 8.5 lbs exit doors, 5 lbs interior doors.

Per 1104 Accessible route provided except per 1104.4 exception 7.

Per 1106 Provide 1 accessible stall w/ Surface identification and signage as req'd.

Per 1109 Provide at least 1 accessible drinking fountain.

INTERIOR ENVIRONMENT (chapter 12)

Per 1202 provide natural or mechanical ventilation equivalent to 4% of floor area
including restrooms.

Per 1204 provide artificial lighting of 10 footcandles min. at 30" above except where
cannabis and tissue culture requirements require otherwise.

Per 1209 provide restroom compartment door requirements & fixture clearances.

ENERGY EFFICIENCY & EXTERIOR WALLS (chapterS 13 & 14)
Provide insulation r-21 min. & wall assembly materials & flashing at new infill window
& door wall infill locations. HVAC system as required separate permit.

New door U-0.20, New windows U-0.30 (0.65 max).

Per 1405.1.3 Provide fireblocking at 10' max. distance in tall walls.

STRUCTURAL DESIGN (chapter 16-23):

See attached structural calculations.

GLASS & GLAZING (chapter 24)

Per 2406 provide safety glazing at new doors and at windows if adjacent.

ELECTRICAL, MECHANICAL, PLUMBING (chapters 27, 28, & 29) under separate permit.

PAGES

A0 SITE PLAN & PROJECT INFORMATION & CODE SUMMARY
A1 FLOOR PLAN
A2 ELEVATIONS
A3 SECTIONS
STRUCTURAL CALCULATIONS

CLINTON
PEARSON
ARCHITECT

STREET ADDRESS :
11076 SW ESCHMAN WAY
TIGARD, OREGON 97223

PHONE: 971 - 570 - 1606

Cannabis Growing Facility
1290 12th St. SE, Salem, OR 97302

PERMIT SET: 30 NOV 2022

DRAWN BY: CAL

SCALE:

FILE NAME:

REGISTERED ARCHITECT
3216
CLINTON A.L. PEARSON
TIGARD, OREGON
STATE OF OREGON

22412
SHEET NO.

A0
OF

12th ST. SE

EXISTING SIDEWALK

CI ZONE: ZERO SETBACKS

WILBUR ST. SE

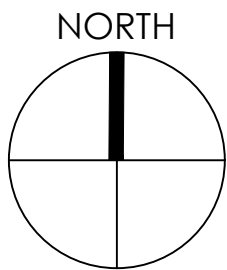
FLOOR PLAN SCALE: 3/16" = 1' - 0"

NOTE: ARCHITECT IS NOT RESPONSIBLE FOR ANY AGREEMENT BETWEEN LEASEE AND OWNER, OR RESULTS OF THIS REMODEL PER THAT AGREEMENT, OR FOR ANY WORK HEREIN, OR FOR EXISTING OR NEW CONDITIONS, OR ASSUMPTIONS REGARDING EXISTING CONDITIONS.

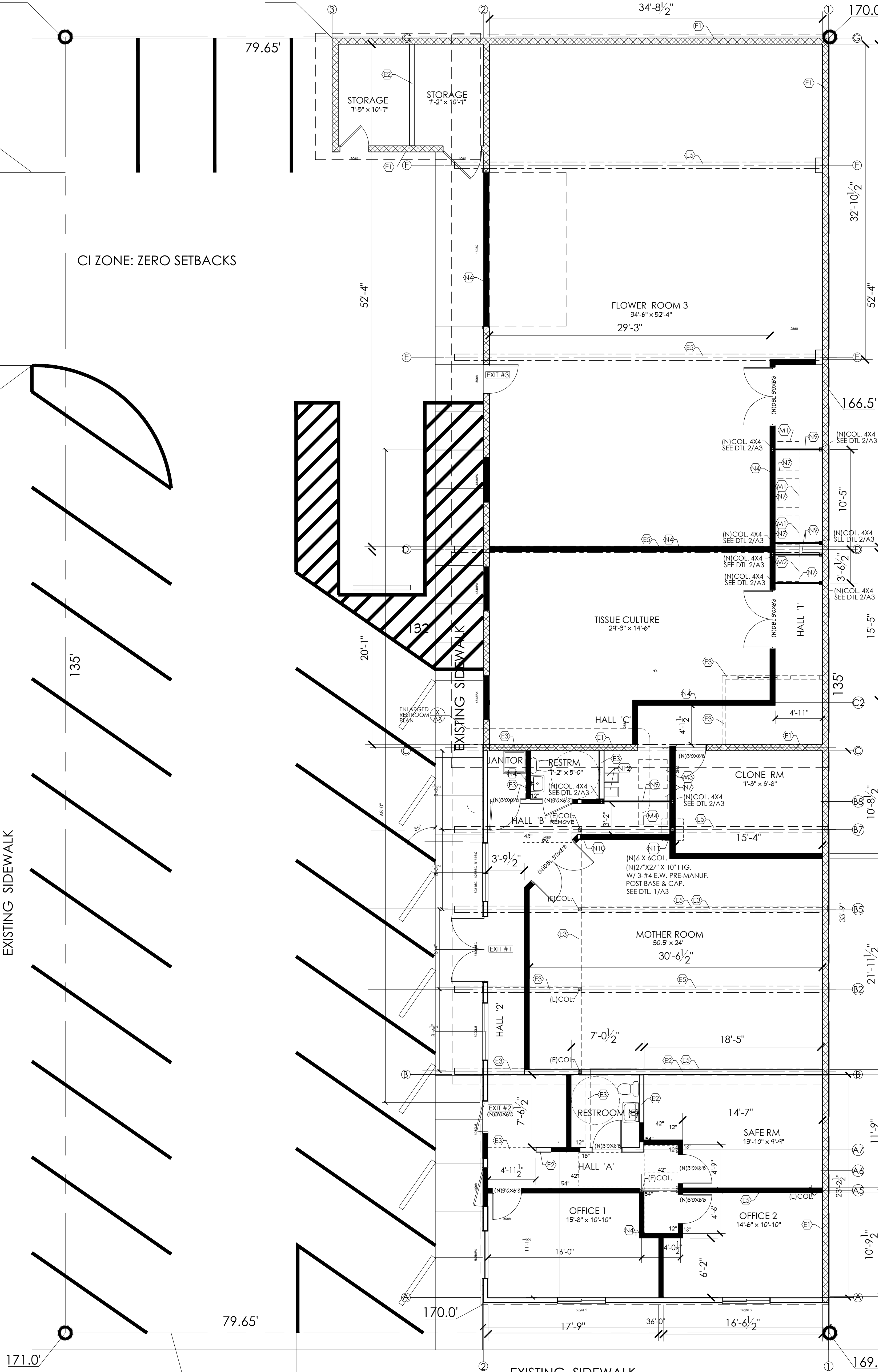
MECHANICAL NOTES
M1 3 UNITS X 10 TONS EA. @ FLOWER RM.
M2 1 UNIT X 6 TONS @ TISSUE CULTURE RM.
M3 1 UNIT X 3 TONS @ CLONE RM.
M4 1 UNIT X 10 TONS @ MOTHER RM.
M5 1 UNIT X 3 TONS @ SAFE RM.
NOTE: SEE DETAIL X/X FOR STRUCTURAL SUPPORT TYP. PROVIDE MANUFACTURER CLEARANCES.

NOTES: (X)
E1. EXISTING CMU WALL TO REMAIN.
E2. EXISTING FRAMED WALL TO REMAIN.
E3. EXISTING WALL TO BE REMOVED.
N4a. NEW WALL W/ DEFLECTION ATTACHMENT ABOVE TYP.
12" = 12" MIN. DIM. ON PUSH SIDE /18" ON PULL SIDE AT DOORS.
N4b. PROVIDE ACCESSIBLE FLOOR CLEARANCES SHOWN.
E5. EXISTING STRUCTURAL BEAM TO REMAIN.
E(COL) = EXISTING STRUCTURAL COLUMN TO REMAIN.
EXIT = EXIT W/ ILLUMINATION & HARDWARE AS REQ'D.
R6. REMOVE EXISTING FIXTURES.
(N)3'0"x6'9" = NEW DOOR PER SIZE SHOWN.
N7. NEW ROOFTOP EQUIPMENT LOCATION, SEE NOTE N9 & STRUCTURAL CALCULATIONS.
N8. CONVERT WINDOW IN TO DOORWAY.
N9. NEW 4X8 BEAM UNDER EXISTING JOISTS TO SUPPORT ROOF-TOP MECH UNITS W/ 4X4 COLUMNS EACH END, W/ 12" X 12" X 8' CONCRETE FOOTING PIN TO SLAB, SAWCUT CONTROL JOINT IN SLAB, PRE-MANF. POST BASES CAPS. SEE DETAIL 2/A3.

N10. VERIFY IF EXISTING BEAM IS CONTINUOUS, REPORT TO ARCHITECT. IF CONTINUOUS MAY REPLACE HALL COLUMN TO LOCATION AT NOTE N11, WITH NEW COLUMN & FOOTING.
N11. NEW COLUMN & FOOTING 6X6 COL. W/ 27X27X10" FOOTING W/ 3- #4 BAR EA. WAY, W/ PRE-MANUF. POST CAP & BASE. SEE DETAIL 1/A3.



EXISTING SIDEWALK

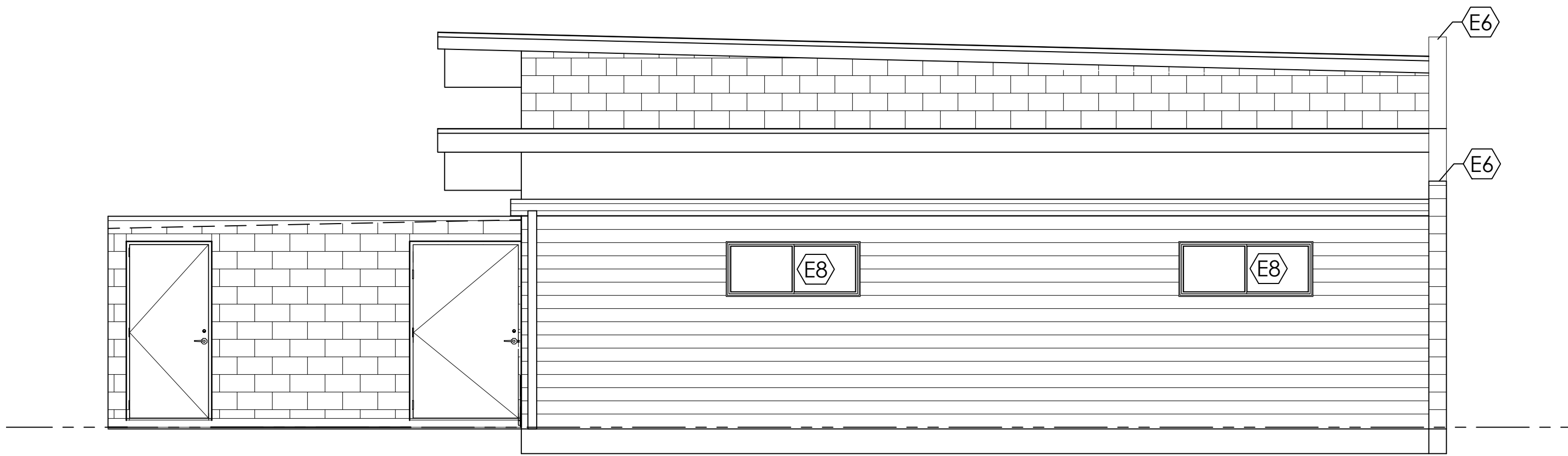


DESIGNER	30 NOV 2022
DRAWN BY	CAL
CHECKED BY	
SCALE	
DATE	

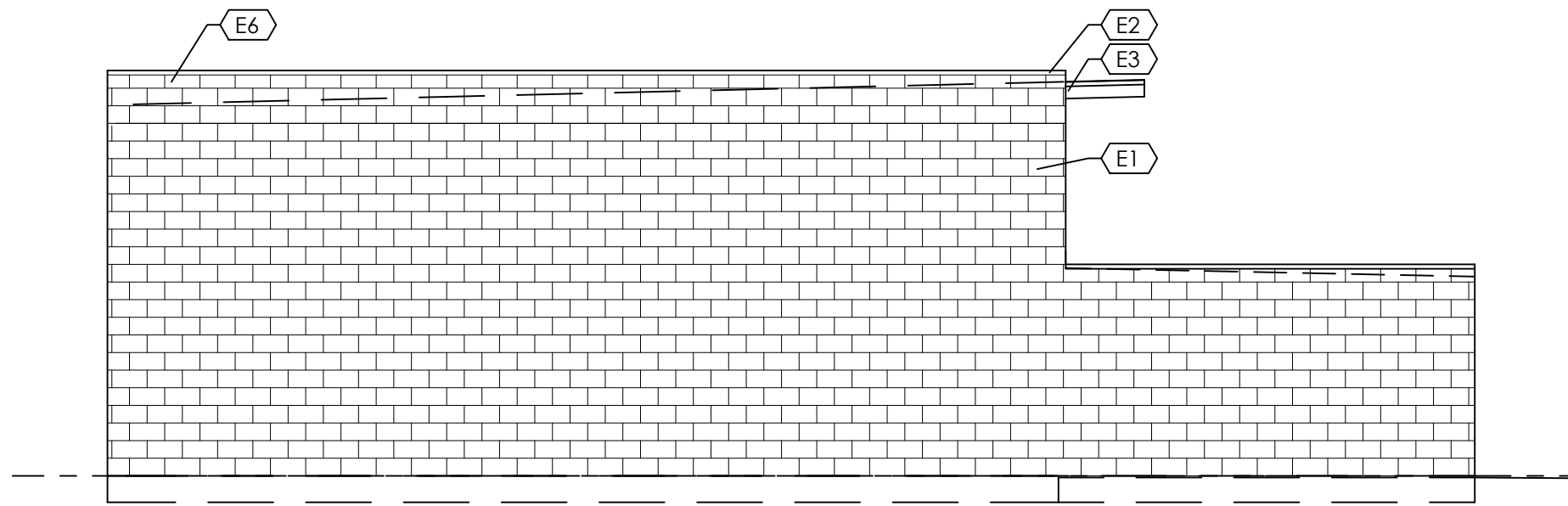
Cannabis Growing Facility
1290 12th St. SE, Salem, OR 97302

CLINTON
PEARSON
ARCHITECT
STREET ADDRESS :
11076 SW ECHMAN WAY
TIGARD, OREGON 97223
PHONE: 971-570-1606

OF
SHEET NO. 22412
A1

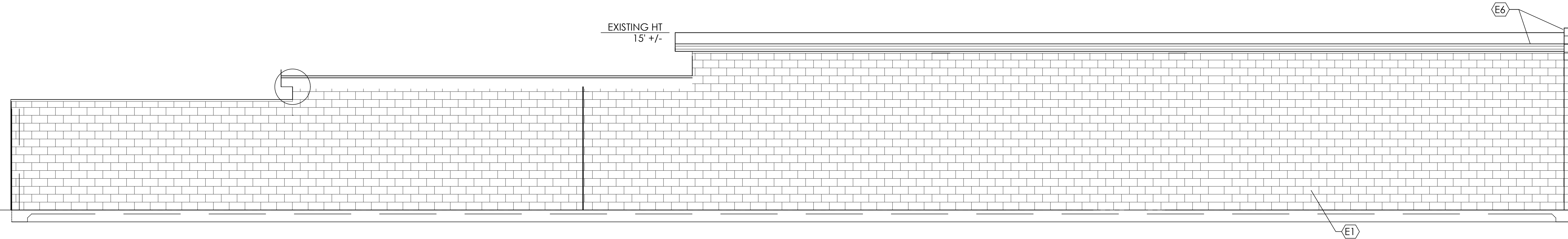


SOUTH ELEVATION
SCALE 1/4" = 1'-0"

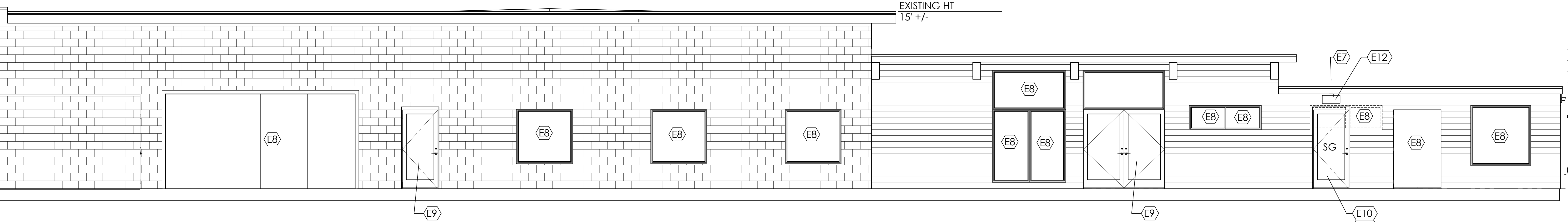


NORTH ELEVATION
SCALE 1/4" = 1'-0"

LEGEND
E1. EXISTING CMU WALLS.
E2. EXISTING FLASHING.
E3. EXISTING WOOD FASCIA PAINTED.
E4. FIBER CEMENT SOFFIT TYP. w/ CONT. VENT.
E5. EXISTING SIDING.
E6. EXISTING PARAPET
E7. NEW LIGHTING AS REQ'D.
E8. NEW INFILL WALLS W/ FIBERCEMENT FINISH.
E9. EXISTING FIREMANUF. DOOR & WINDOW SYSTEMS TO REMAIN.
E10. NEW FIREMANUF. DOOR & WINDOW SYSTEMS PER ENERGY
CODE W/ SAFETY GLAZING
E11. SG = SAFETY GLAZING
E12. ADDRESS NUMBERS AS REQ'D.



EAST ELEVATION
SCALE 1/4" = 1'-0"



WEST ELEVATION
SCALE 1/4" = 1'-0"

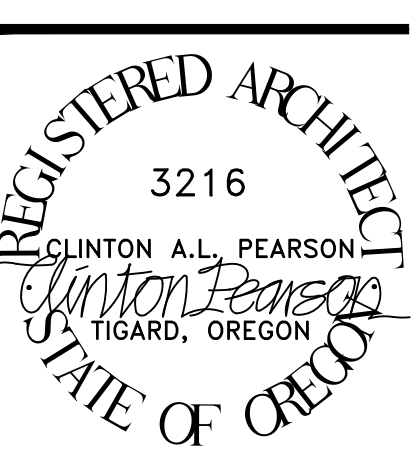
Cannabis Growing Facility
1290 12th St. SE, Salem, OR 97302

PERMIT SET: 30 NOV 2022

DRAWN BY: CAL

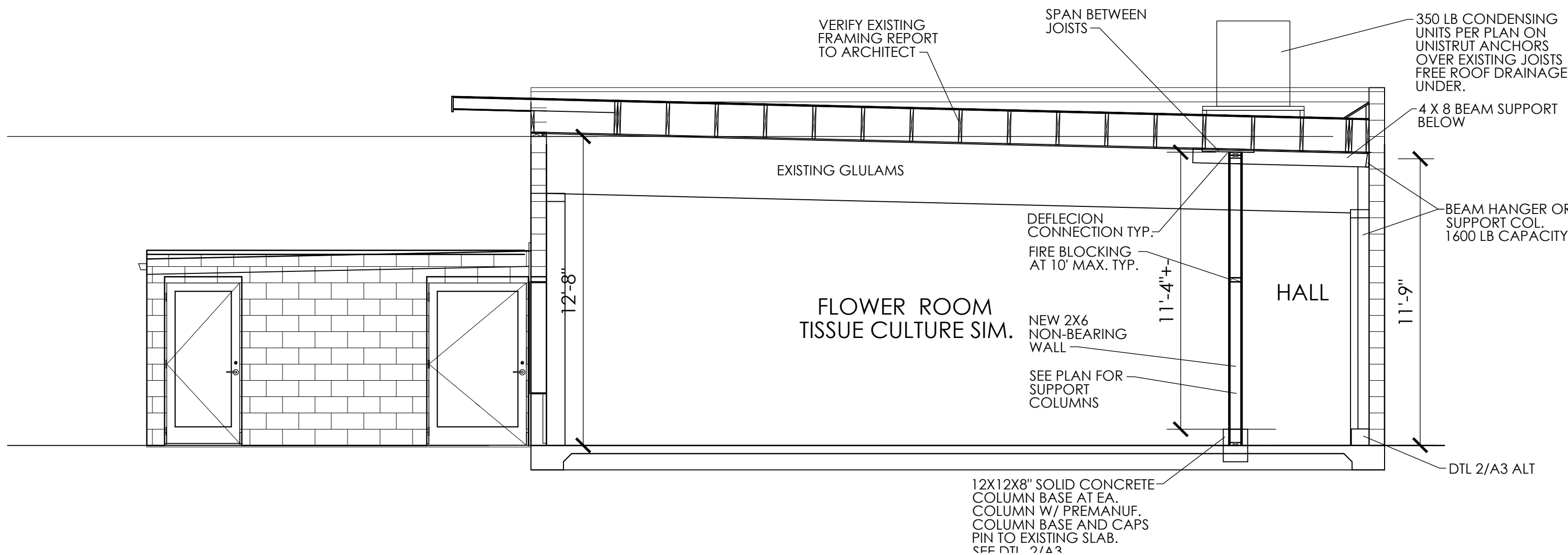
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FILE NAME:

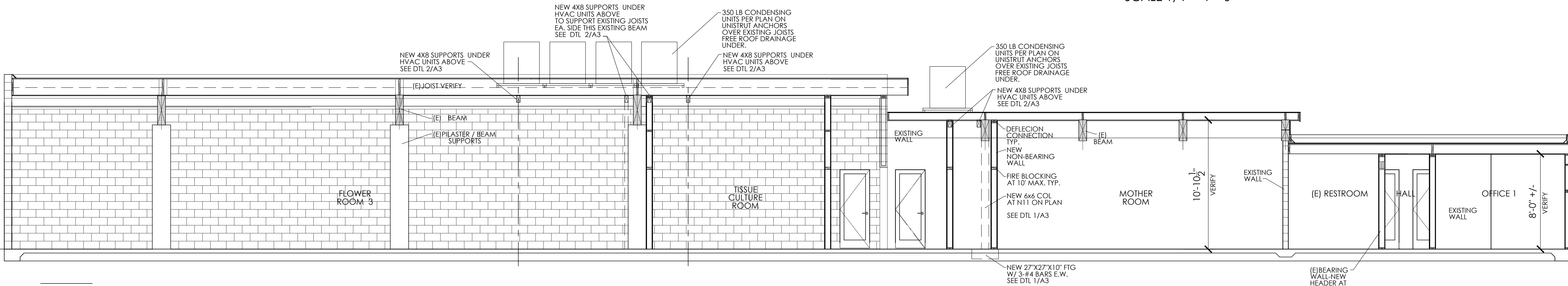


22412
SHEET NO.

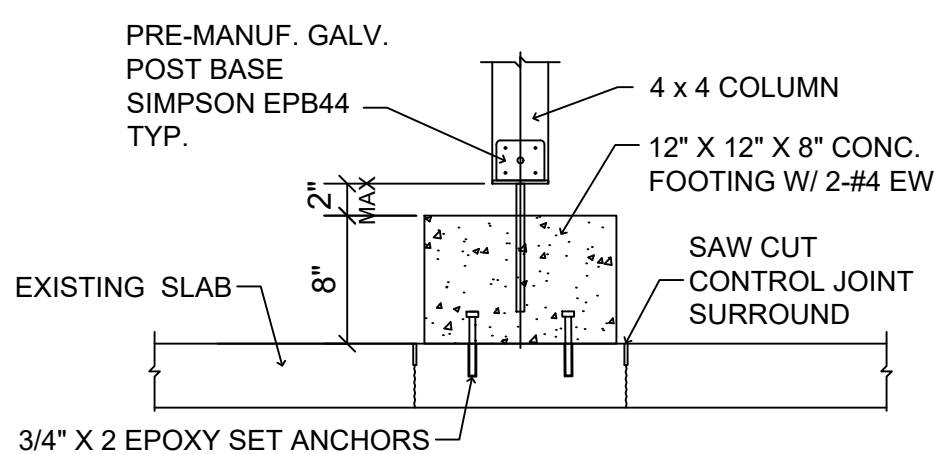
OF A2



SECTION BB
SCALE 1/4" = 1' - 0"

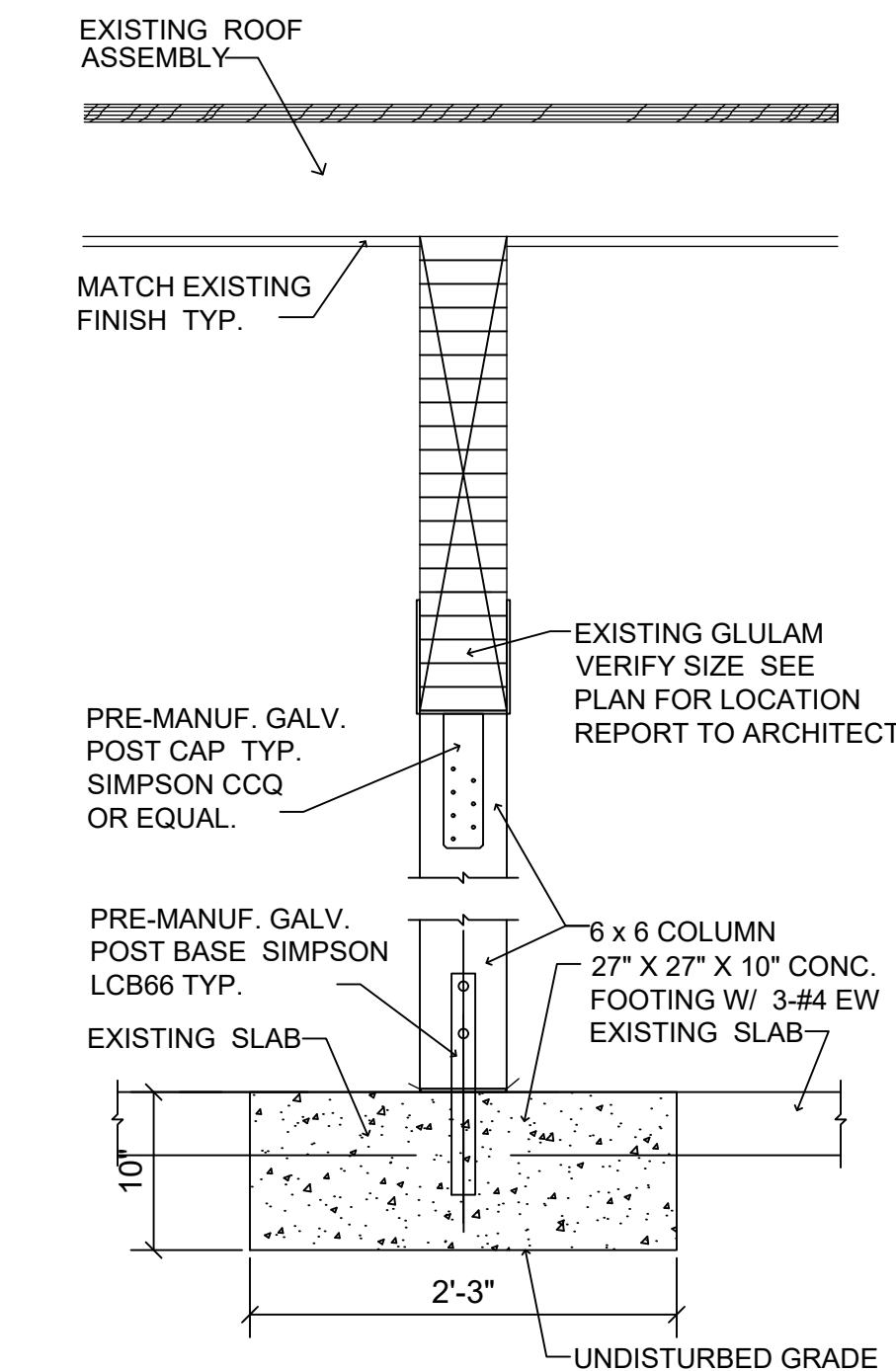
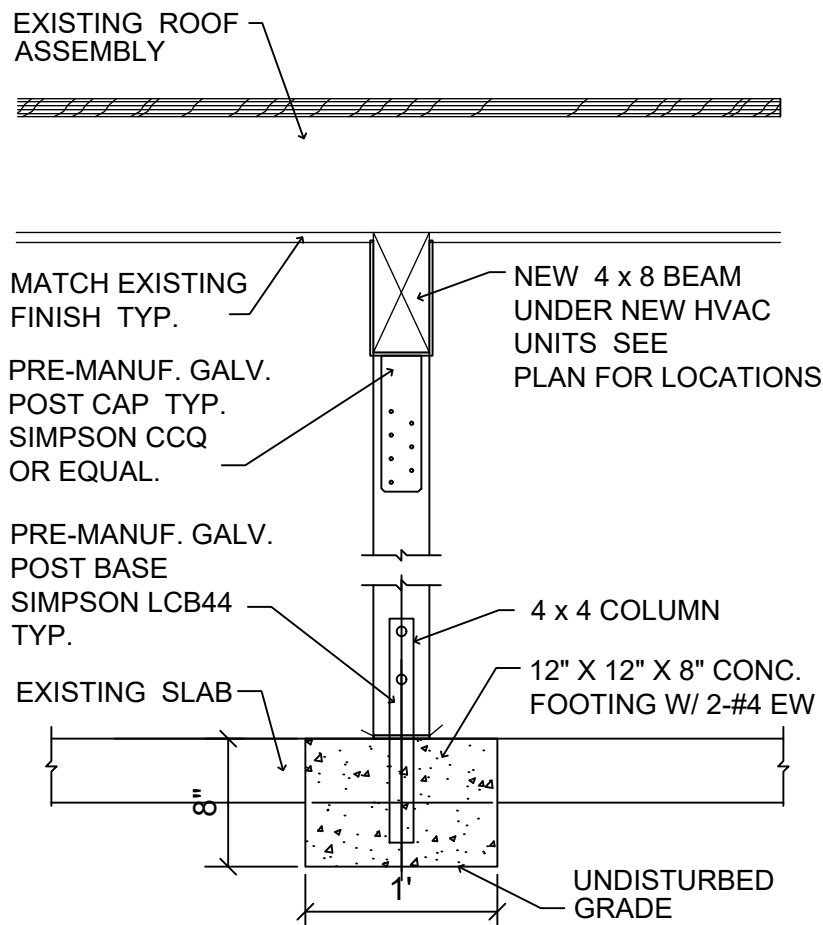


SECTION AA
SCALE 1/4" = 1' - 0"



ALTERNATE BASE DETAIL NEAR WALLS

2 A3 TYP. 4x4 POST & 4x8 BEAM DETAIL UNDER HVAC UNITS
1" = 1'-0"



1 A3 TYP. 6x6 POST @ EXIST'G BEAM DETAIL
1" = 1'-0"

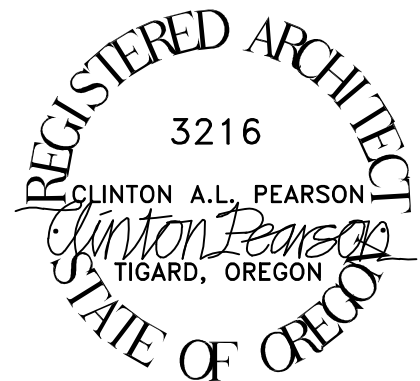


TABLE OF CONTENTS:

STRUCTURAL CALCULATIONS

Date: 21 NOV 2022

Revised

CANNABIS GROWING FACILITY
1290 12th ST. SE.
SALEM, OREGON

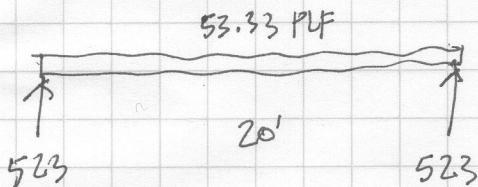
STRUCTURAL
DESIGN
CALCULATIONS

EXCLUSION OF LIABILITIES:

1. DISCLAIMER AND RELEASE

OWNER AND OWNERS AGENTS HEREBY WAIVES, RELEASES AND RENOUNCES ALL WARRANTIES (EXPRESS OR IMPLIED), OBLIGATIONS, AND LIABILITIES OF ARCHITECT AND ALL OTHER RIGHTS, CLAIMS AGAINST ARCHITECT (EXPRESS OR IMPLIED) WITH RESPECT TO ANY NONCONFORMITY, IMPROPER INSTALLATION, WORKMANSHIP, OR MATERIALS RELATIVE TO SCOPE OF WORK PERFORMED BY ARCHITECT.

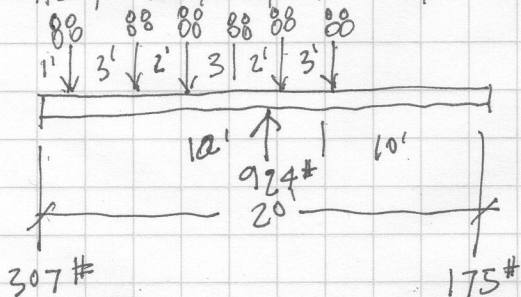
CHECK ROOF RAFTERS



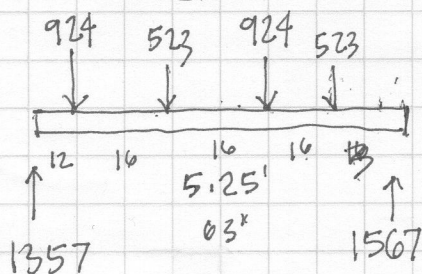
LL SNOW 25 PSF
DL 20 PSF
45 PSF TOTAL
ASSUME 24" % Fail Δ
1962 construction.

25 PSF LL SNOW
15 PSF DL
40 PSF Total
16" % OK
VERIFY SPACING

CHECK MAX SPAN W/ 350#/2 HVAC UNIT LOAD



If support added in center @ 10'
or even @ 14' OK

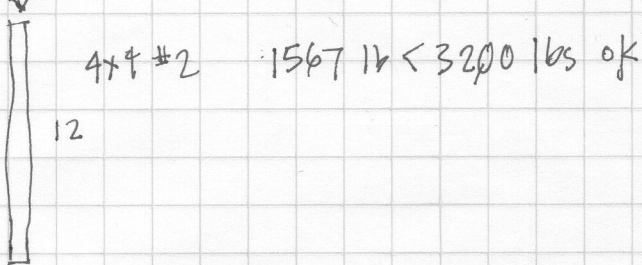


New ^{ROOF} SUPPORT @ HVAC UNITS

4x8 DF. N°2 OK (ADD TO EA. SIDE
OF EXIST'G BEAMS
TO NOT ADD TO EXIST'G
BEAM LOADING).

P = 3200 LB MAX

4x4 x 12' HVAC BEAM SUPPORT COL.



COL
N11

NEW / REPLACED COL & FOOTING @

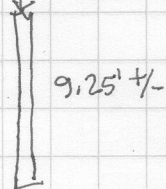
Note 11 / N11

FOR HALL
CLEARANCE

trib area $8.2 \times 17.5 = 145$ SF 145 SF $\times$ 45 PSF Roof =

6,525 LB

P = 6525 lb



6x6 col. min

2.25' x 2.25' x 10" FTG W/ 3# Net E.W. min FOOTG

DATE:	11/18/2022			COMPANY:	Architect
STRUCALC BUILD:	StruCalc Pro			DESIGNED BY:	clinton pearson
CUSTOMER:				REVIEWED BY:	clinton pearson
PROJ. ADDRESS:	--			PROJECT NAME:	CHOI Cannabis
	--				
LEVEL:	NOT YET ASSIGNED			LOADING:	ASD
MEMBER NAME:	20 ft span			CODE:	2021 International Building Code
MEMBER TYPE:	ROOF RAFTER			NDS:	2018 NDS
MATERIAL:	Solid Sawn				
Douglas Fir-Larch	No. 1	(1) 1.5 X 11.25	16(in) O.C.	DRY	

20 ft span DIAGRAM



BEAM PROPERTIES

Start (ft): 0 End (ft): 20 Member Slope: 1/12 Actual Length (ft): 20.07 Roof Pitch: 1/12 O.C. Spacing(in): 16

Area	I _x	I _y	BSW	Lams	G	K _{cr}
(in ²)	(in ⁴)	(in ⁴)	(lbf/ft)			Creep Factor
16.88	177.98	3.16	3.85	1	0.5	1

STRENGTH PROPERTIES

	F _b (psi)	F _t (psi)	F _v (psi)	F _c (psi)	F _c ⊥ (psi)	E (psi) x10 ³	E _{min} (psi) x10 ³
Base Values	1000	675	180	1500	625	1700	620
Adjusted Values	1150	675	180	1500	625	1700	620
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	1	1	1	1	1	1	1
C _F	1	1	1	1	1	1	1

Bending Adjustment Factors C_{fu} = 0.74C_r = 1.15

BEAM DATA

		Unbraced Length (ft)		Beam End				
Span	Length (ft)	Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	20	0	20	1.666667	1.00	0.26	1.00	1.00

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	PASS (79.4%)	46.4	225.0	0	D+Lr	1.25
Bending Stress Y (psi)	PASS (30.9%)	993.0	1437.5	10	D+Lr	1.25
Deflection (in)	PASS (6.2%)	0.627 (=L/384)	0.669 (=L/360)	10	D+Lr	
Compressive Stress (psi)	PASS (99.7%)	2.6	934.3	0	D+Lr	1.25
Tensile Stress (psi)	PASS (99.7%)	2.6	843.8	20	D+Lr	1.25
Bearing Stress (psi)	PASS (81.5%)	115.6	625.0	0	D+Lr	1.25
Bending-Compression (Unit)	PASS (30.9%)	0.69	1.00	9.8	D+Lr	1.25
Bending-Tension (Unit)	PASS (30.9%)	0.69	1.00	10	D+Lr	1.25

REACTIONS		Units for V: lbf	Units for M: lbf-ft
Y axis	DEAD	LIVE ROOF	TOTAL
A	189	334	523
B	189	334	523

Reaction Location

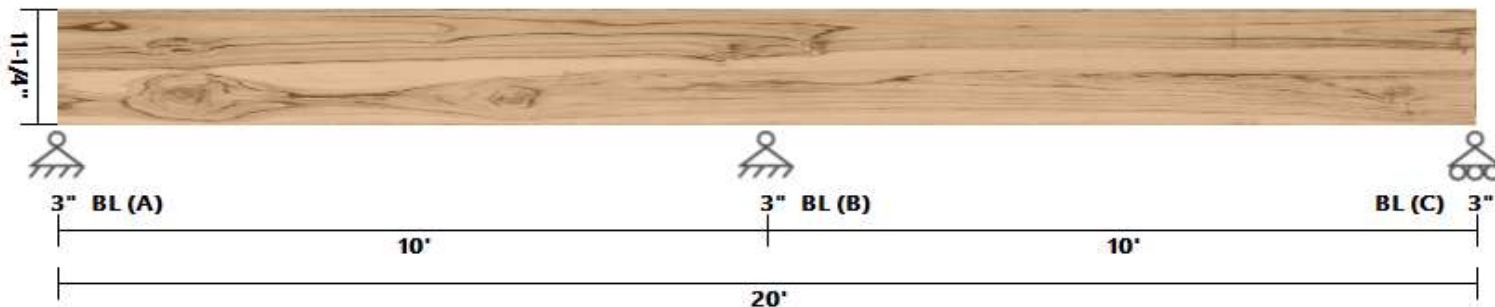
A

B

LOAD LIST						
Type	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft²)	25	25	0	20	Roof Live	Y
Uniform (lbf/ft)	15	15	0	20	Dead	Y
Self Weight (lbf/ft)	3.85	3.85	0	20	Dead	Y

DATE:	11/18/2022	COMPANY:	Architect
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	clinton pearson
CUSTOMER:		REVIEWED BY:	clinton pearson
PROJ. ADDRESS:	--	PROJECT NAME:	CHOI Cannabis
	--		
LEVEL:	Roof	LOADING:	ASD
MEMBER NAME:	Roof rafter w HVAC load	CODE:	2021 International Building Code
MEMBER TYPE:	ROOF BEAM	NDS:	2018 NDS
MATERIAL:	Solid Sawn		
Douglas Fir-Larch	No. 1	(1) 1.5 X 11.25	DRY

Roof rafter w HVAC load DIAGRAM



BEAM PROPERTIES

Start (ft): 0 End (ft): 20 Member Slope: 0/12 Actual Length (ft): 20

Area	I _x	I _y	BSW	Lams	G	K _{cr}
(in ²)	(in ⁴)	(in ⁴)	(lb/ft)			Creep Factor
16.88	177.98	3.16	3.85	1	0.5	1

STRENGTH PROPERTIES

	F _b (psi)	F _t (psi)	F _v (psi)	F _c (psi)	F _{c⊥} (psi)	E (psi) x10 ³	E _{min} (psi) x10 ³
Base Values	1000	675	180	1500	625	1700	620
Adjusted Values	1000	675	180	1500	625	1700	620
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	1	1	1	1	1	1	1
C _F	1	1	1	1	1	1	1

Bending Adjustment Factors C_{fu} = 0.74C_r = 1

BEAM DATA

		Unbraced Length (ft)		Beam End				
Span	Length (ft)	Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	10	0	10	0	1.00	0.90	1.00	1.00
2	10	0	10	0	1.00	0.82	1.00	1.00

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	PASS (80.9%)	43.0	225.0	10	D+Lr	1.25
Bending Stress Y (psi)	PASS (67.1%)	336.8	1024.8	10	D+Lr	1.25
Deflection (in)	PASS (95.9%)	0.028 (=L/4348)	0.667 (=L/180)	4.4	D+Lr	
Bearing Stress (psi)	PASS (70.8%)	205.4	703.1	10	D+Lr	1.25

REACTIONS

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	LIVE ROOF	TOTAL
A	213	94	307
B	612	312	924
C	81	94	175

Reaction Location

A

B

C

LOAD LIST

Type	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft)	25	25	0	20	Roof Live	Y
Uniform (lbf/ft)	15	15	0	20	Dead	Y
Point (lbf)	88	-	1	-	Dead	Y
Point (lbf)	88	-	4	-	Dead	Y
Point (lbf)	88	-	6	-	Dead	Y
Point (lbf)	88	-	9	-	Dead	Y
Point (lbf)	88	-	11	-	Dead	Y
Point (lbf)	88	-	14	-	Dead	Y
Self Weight (lbf/ft)	3.85	3.85	0	20	Dead	Y

DATE:	11/18/2022	COMPANY:	Architect
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	clinton pearson
CUSTOMER:		REVIEWED BY:	clinton pearson
PROJ. ADDRESS:	--	PROJECT NAME:	CHOI Cannabis
	--		
LEVEL:	NOT YET ASSIGNED	LOADING:	ASD
MEMBER NAME:	Mid span HVAC support	CODE:	2021 International Building Code
MEMBER TYPE:	ROOF BEAM	NDS:	2018 NDS
MATERIAL:	Solid Sawn		
Douglas Fir-Larch	No. 2	(1) 3.5 X 7.25	DRY

Mid span HVAC support DIAGRAM



BEAM PROPERTIES

Start (ft): 0 End (ft): 5.25 Member Slope: 0/12 Actual Length (ft): 5.25

Area	I _x	I _y	BSW	Lams	G	K _{cr}
(in ²)	(in ⁴)	(in ⁴)	(lb/ft)			Creep Factor
25.38	111.15	25.9	5.79	1	0.5	1

STRENGTH PROPERTIES

	F _b (psi)	F _t (psi)	F _v (psi)	F _c (psi)	F _c ⊥ (psi)	E (psi) x10 ³	E _{min} (psi) x10 ³
Base Values	900	575	180	1350	625	1600	580
Adjusted Values	1170	690	180	1417	625	1600	580
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	1	1	1	1	1	1	1
C _F	1.3	1.2	1	1.05	1	1	1

Bending Adjustment Factors C_{fu} = 1 C_r = 1

BEAM DATA

		Unbraced Length (ft)		Beam End				
Span	Length (ft)	Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	5.25	0	5.25	0	1.00	1.00	1.00	1.00

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	PASS (42.8%)	92.6	162.0	5.25	D	0.9
Bending Stress Y (psi)	PASS (28.9%)	749.1	1053.0	2.36	D	0.9
Deflection (in)	PASS (84.6%)	0.054 (=L/1167)	0.350 (=L/180)	2.62	D+L	
Bearing Stress (psi)	PASS (76.1%)	149.3	625.0	5.25	D	0.9

REACTIONS

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	TOTAL
A	1357	1357
B	1567	1567

Reaction Location

A

B

LOAD LIST

Type	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Point (lbf)	924	-	1	-	Dead	Y
Point (lbf)	523	-	2.33	-	Dead	Y
Point (lbf)	924	-	3.67	-	Dead	Y
Point (lbf)	523	-	5	-	Dead	Y
Self Weight (lbf/ft)	5.79	5.79	0	5.25	Dead	Y

DATE:	11/18/2022	COMPANY:	Architect
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	clinton pearson
CUSTOMER:		REVIEWED BY:	clinton pearson
PROJ. ADDRESS:	--	PROJECT NAME:	CHOI Cannabis
	--		
LEVEL:	NOT YET ASSIGNED	LOADING:	ASD
MEMBER NAME:	HVAC COLUMN 12 ft	CODE:	2021 International Building Code
MEMBER TYPE:	COLUMN	NDS:	2018 NDS
MATERIAL:	Solid Sawn		
Douglas Fir-Larch	No. 2	(1) 3.5 X 3.5	DRY

HVAC COLUMN 12 ft DIAGRAM



COLUMN PROPERTIES

Start(ft) 0 End(ft): 12

Area	I _x	I _y	BSW	Lams	G	K _{cr}
(in ²)	(in ⁴)	(in ⁴)	(lbf/ft)			Creep Factor
12.25	12.51	12.51	2.79	1	0.5	1

STRENGTH PROPERTIES

	F _b (psi)	F _t (psi)	F _v (psi)	F _c (psi)	F _c ⊥ (psi)	E (psi) x10 ³	E _{min} (psi) x10 ³
Base Values	900	575	180	1350	625	1600	580
Adjusted Values	1350	862	180	1552	625	1600	580
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	1	1	1	1	1	1	1
C _F	1.5	1.5	1	1.15	1	1	1

Bending Adjustment Factors C_{fu} = 1 C_r = 1

COLUMN DATA

		Unbraced Length (ft)		Column End					
Span	Length (ft)	X	Y	Offset	CP	Ke(X Axis)	Ke(Y Axis)	KeL/d (X Axis)	KeL/d (Y Axis)
1	12	12	12	0	0.19	1.00	1.00	41.14	41.14

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Deflection (in)	PASS (94.1%)	0.024 (=L/6102)	0.400 (=L/360)	12	D+L	
Compressive Stress (psi)	PASS (1.8%)	264.0	268.8	0	D	0.9

REACTIONS

Units for V: lbf Units for M: lbf-ft

Z axis	DEAD	TOTAL
A	3234	3234
B	0	0

Reaction Location

A

B

LOAD LIST

Type	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Point (lbf)	-3200	-	12	-	Dead	Z
Self Weight (lbf/ft)	2.79	2.79	0	12	Dead	Z

DATE:	11/18/2022	COMPANY:	Architect
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	clinton pearson
CUSTOMER:		REVIEWED BY:	clinton pearson
PROJ. ADDRESS:	--	PROJECT NAME:	CHOI Cannabis
	--		
LEVEL:	NOT YET ASSIGNED	LOADING:	ASD
MEMBER NAME:	COL N11 REPLACMNT	CODE:	2021 International Building Code
MEMBER TYPE:	COLUMN	NDS:	2018 NDS
MATERIAL:	Solid Sawn		
Douglas Fir-Larch	No. 2	(1) 5.5 X 5.5	DRY

COL N11 REPLACMNT DIAGRAM



COLUMN PROPERTIES

Start(ft) 0 End(ft): 9.25

Area	Ix	Iy	BSW	Lams	G	Kcr
(in ²)	(in ⁴)	(in ⁴)	(lbf/ft)			Creep Factor
30.25	76.26	76.26	6.9	1	0.5	1

STRENGTH PROPERTIES

	Fb (psi)	Ft (psi)	Fv (psi)	Fc (psi)	Fc _⊥ (psi)	E (psi) x10 ³	Emin (psi) x10 ³
Base Values	750	475	170	700	625	1300	470
Adjusted Values	750	475	170	700	625	1300	470
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	1	1	1	1	1	1	1
C _F	1	1	1	1	1	1	1

Bending Adjustment Factors C_{fu} = 1 C_r = 1

COLUMN DATA

		Unbraced Length (ft)		Column End					
Span	Length (ft)	X	Y	Offset	CP	Ke(X Axis)	Ke(Y Axis)	KeL/d (X Axis)	KeL/d (Y Axis)
1	9.25	10	10	0	0.74	1.00	1.00	21.82	21.82

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Deflection (in)	PASS (94.0%)	0.019 (=L/5999)	0.308 (=L/360)	9.25	D+L	
Compressive Stress (psi)	PASS (57.9%)	217.8	517.7	0	D+L	1

REACTIONS

Units for V: lbf Units for M: lbf-ft

Z axis	DEAD	LIVE	TOTAL
A	64	6525	6589
B	0	0	0

Reaction Location

A

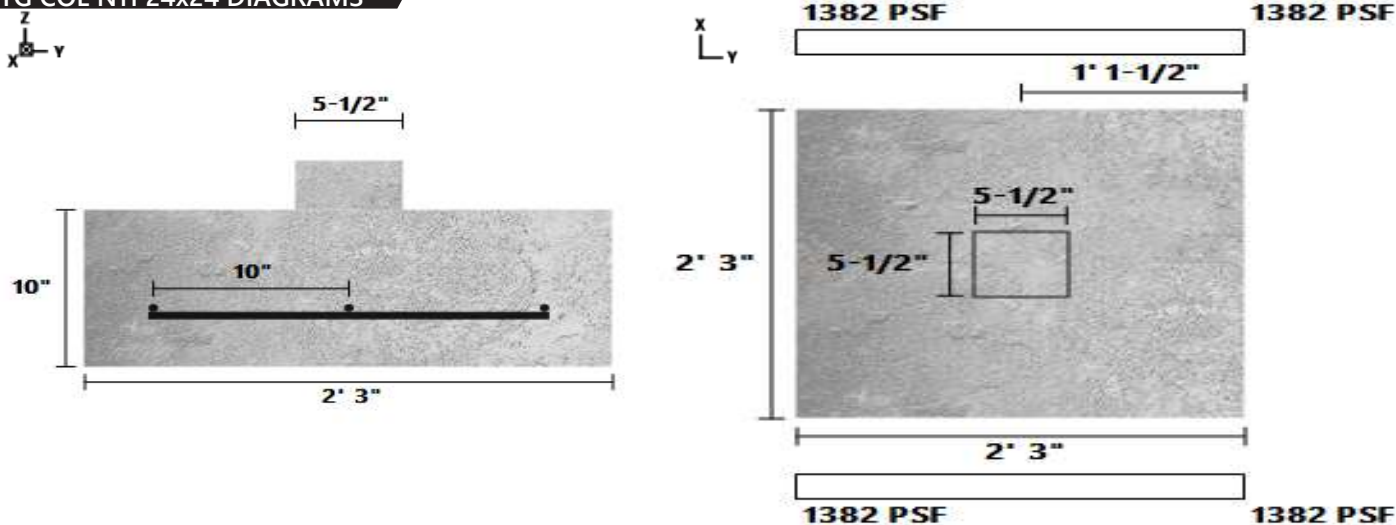
B

LOAD LIST

Type	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Point (lbf)	-6525	-	9.25	-	Live	Z
Self Weight (lbf/ft)	6.9	6.9	0	9.25	Dead	Z

DATE:	11/18/2022	COMPANY:	Architect
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	clinton pearson
CUSTOMER:		REVIEWED BY:	clinton pearson
PROJ. ADDRESS:	--	PROJECT NAME:	CHOI Cannabis
	--		
LEVEL:	NOT YET ASSIGNED	LOADING:	
MEMBER NAME:	FTG COL N11 24x24	CODE:	2021 International Building Code
MEMBER TYPE:	ISOLATED FOOTING	ACI:	ACI 318-19
MATERIAL:	Concrete		
2.25 (ft) X 2.25 (ft) X 10 (in)		Soil Depth TOF: 0 (ft)	(3) #4 Long, (3) #4 Short

FTG COL N11 24x24 DIAGRAMS



MATERIAL PROPERTIES

FOOTING						
fc' (psi)	Ec (psi)	Density (lb/ft ³)	Width (ft)	Length (ft)	Depth (in)	Volume (ft ³)
2500	2880952	145	2.25	2.25	10	4.22
CALCULATION VARIABLES						
Bo (in)	Φ-X	Φ-Y				
48	0	0				
COLUMN						
Width (in)	Length (in)	Material	Offset (in)			
5.5	5.5	Concrete	0			
SOIL						
Bearing Strength (lb/ft ²)	Density (lb/ft ³)	Cohesion	Friction Angle	Depth (ft)	Rankine Coefficient (Kp)	
1500	145	0	35	0	3.690172	
REBAR						
Bar Size #	# Bars Long	# Bars Short	fy (psi)	Es (psi)		
4	3	3	40000	2.9E+07		

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOAD COMBO
Soil Bearing Pressure (lb/ft ²)	PASS (7.8%)	1382.7	1500.0	D+L
Two-Way Shear (Punching) (lb)	PASS (76.1%)	11200.0	46800.0	1.2D+1.6L+0.5Lr
One-Way Shear X (lb)	PASS (86.6%)	1763.0	13162.5	1.2D+1.6L+0.5Lr
Moment X (lb-ft)	PASS (44.5%)	1997.4	3600.0	1.2D+1.6L+0.5Lr
One-Way Shear Y (lb)	PASS (67.9%)	1763.0	5499.4	1.2D+1.6L+0.5Lr
Moment Y (lb-ft)	PASS (44.5%)	1997.4	3600.0	1.2D+1.6L+0.5Lr
Crushing (psi)	PASS (73.2%)	370.2	1381.3	1.2D+1.6L+0.5Lr

LOAD LIST

Type	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Point (lb)	7000	-	0	-	Live	Z