

NOTICE OF MEETING
VILLAGE OF FOX POINT
BUILDING BOARD

SCHWEMER HALL
7200 N. SANTA MONICA BLVD.
FOX POINT, WI 53217

Wednesday
October 14, 2020
5:00 P.M.

Join Zoom Meeting

<https://us02web.zoom.us/j/86721322572?pwd=U3RiTytTbXE3ejlDRVpiR2NmMkd2QT09>

Meeting ID: 867 2132 2572

Dial In: 301.715.8592

1. Approval of the minutes of the September 9, 2020 Building Board meeting. p.2
2. Tom Robinette, 8075 N Mohawk Rd, proposed deck & studio sunroom. p. 3-21
3. Dianne Tomasini, 7473 N Beach Dr, proposed jacuzzi. p. 22-29
4. Tom Chelimsky, 7950 N Lake Dr, proposed PV system. p. 30-69
5. David Petering, 7229 N Santa Monica Blvd, proposed PV system. p. 70-76
6. Catie Knight, 7057 N Fairchild Cir, proposed egress window. p. 77-86
7. Terry McGauran, 308 E Willow Rd, proposed porch addition and deck. p. 87-103
8. Michael Savic, 8517 N Regent Rd, proposed four season sunroom. p. 104-106
9. David Swanson, 7724 N Beach Dr, proposed addition. p. 107-115
10. Chuck Prestigiacomo, 325 W Nokomis Ct, proposed addition. p. 116-125
11. Brian Tobiczky, 503 E Bradley Rd, proposed new single family home. p. 126-142
12. Fox Point Church, 7510 N Santa Monica Blvd, proposed resubmittal of Porte Cochere and screened mechanicals/utilities. p. 143-148
13. Adjourn.

PLEASE NOTE: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aids. For additional information or to request these services, contact the Village Clerk at 414-351-8900. It is possible that members of, and possibly a quorum of members of, other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information; no action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice.

**VILLAGE OF FOX POINT
BUILDING BOARD MINUTES**

A meeting of the Building Board was held via Zoom, on Wednesday, September 9, 2020, at 5:00 pm. Those present included:

Justin Racinowski
Jeff Weber
Matt Amman
Kristin Dufek
Lori Rosenthal
Michael Rakow

Notice of the meeting was provided to the North Shore Now and to all others as required by State open meeting laws and posted on the official bulletin boards.

MINUTES

Motion was made by Jeff Weber to approve the minutes from August 12, 2020. Motion was seconded by Kristin Dufek. Motion Passed.

AGENDA

- **Bradley Place, 8007 N Port Washington Dr, proposed freestanding sign.** It was the consensus of the Building Board to approve as submitted.
- **John Stephens, 8017 N Santa Monica Blvd, proposed new front entry stairs.** It was the consensus of the Building Board to approve as submitted.
- **Victor Newton, 8234 N Port Washington Rd, proposed 24X26 detached garage.** It was the consensus of the Building Board to approve as submitted.
- **Brad Fedderly, 7901 N Mohawk Rd, proposed sunroom.** It was the consensus of the Building Board to approve as submitted.
- **Bill Rinehart, 8305 N Regent Rd, proposed 10X12 shed.** It was the consensus of the Building Board to approve as submitted.
- **Arthur Harris, 6441 N Lake Dr, proposed porch addition and deck.** It was the consensus of the Building Board to approve as submitted.
- **Fox Point Church, 7510 N Santa Monica Blvd, proposed addition.** It was the consensus of the Building Board to approve subject to the Porte Cochere to be tabled for redesign and mechanicals/utilities to be screened.

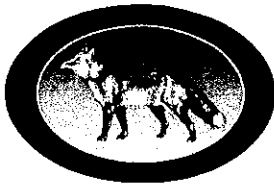
ADJOURN

Motion to adjourn Building Board was made by Kristin Dufek. Motion seconded by Jeff Weber. Motion Passed. Building Board adjourned at 6:04 pm.

Respectfully Submitted,



Michael Rakow
Building Inspector
Village of Fox Point

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

OFFICE USE ONLY	
Issuance Date	
Zoning	C, 60 min, 90 min

BUILDING PERMIT

Job Address 8075 N. Mohawk Rd Building Type: ☒ Residential ☐ Commercial
Description of Work:

Build new deck & 4" build new studio sunroom

Estimated Cost of Project: 29,113.00

Owner/Occupant

Name Tom Robinette Business Name _____
Address 8075 N Mohawk Rd City/State/Zip Fox Point, WI 53217
Phone 414 406-0269 Email _____

****Cautionary Statement required when homeowner is applying for permit****

Contractor

Company Name Champion Windows Contractor Name Carl Gust ²⁻⁶¹²⁻⁰⁰⁴³
Address 16560 W. Glendale Dr. City/State/Zip New Berlin WI 53151
Phone 262 317 5731 Email CGust@ChampionWindow.com
Dwelling Contractor # 039900039 Dwelling Contractor Qualifier # 040800052 ✓
_{Late}

Square Footage Under Construction

1st Floor _____ 2nd Floor _____ Basement _____ Addition 117.375 sq ft Garage _____

Permit Costs

	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	<u>275.5</u>
Building Board	\$75.00	<u>75.00</u>
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction		
\$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition	\$85.00 minimum plus	\$0.12/sqft
Moving Buildings over Public Ways	\$230.00 plus	\$0.12/sqft
Fuel Tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Work started without permit	Double Fee	

Payable to: Village of Fox Point

Total Permit Fee 275.50

****Minimum Fee \$70.00**

Applicant Signature

Date 8-9-2020

Rev 0619

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.055006

Sep 8, 2020

8075 N Mohawk

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PERMIT	275.50
24-44460 BUILDING PERMIT	
Total:	275.50
CHECK Check No: 37478	275.50
Payor: 8075 N Mohawk	
Total Applied:	275.50
Change Tendered:	.00

09/08/2020 2:45 PM

TOM AND MARIA ROBINETTE

8075-N MOHAWK ROAD

FOX POINT, WI 53217

(414) 406-0269

REAR OF HOUSE ELEVATION

SCALE: 1/4" = 1' 0"

SURRENDER PLANS APPROVED BY:

DATE:

EXISTING HOUSE

ROOF

CHAMPION ROOF

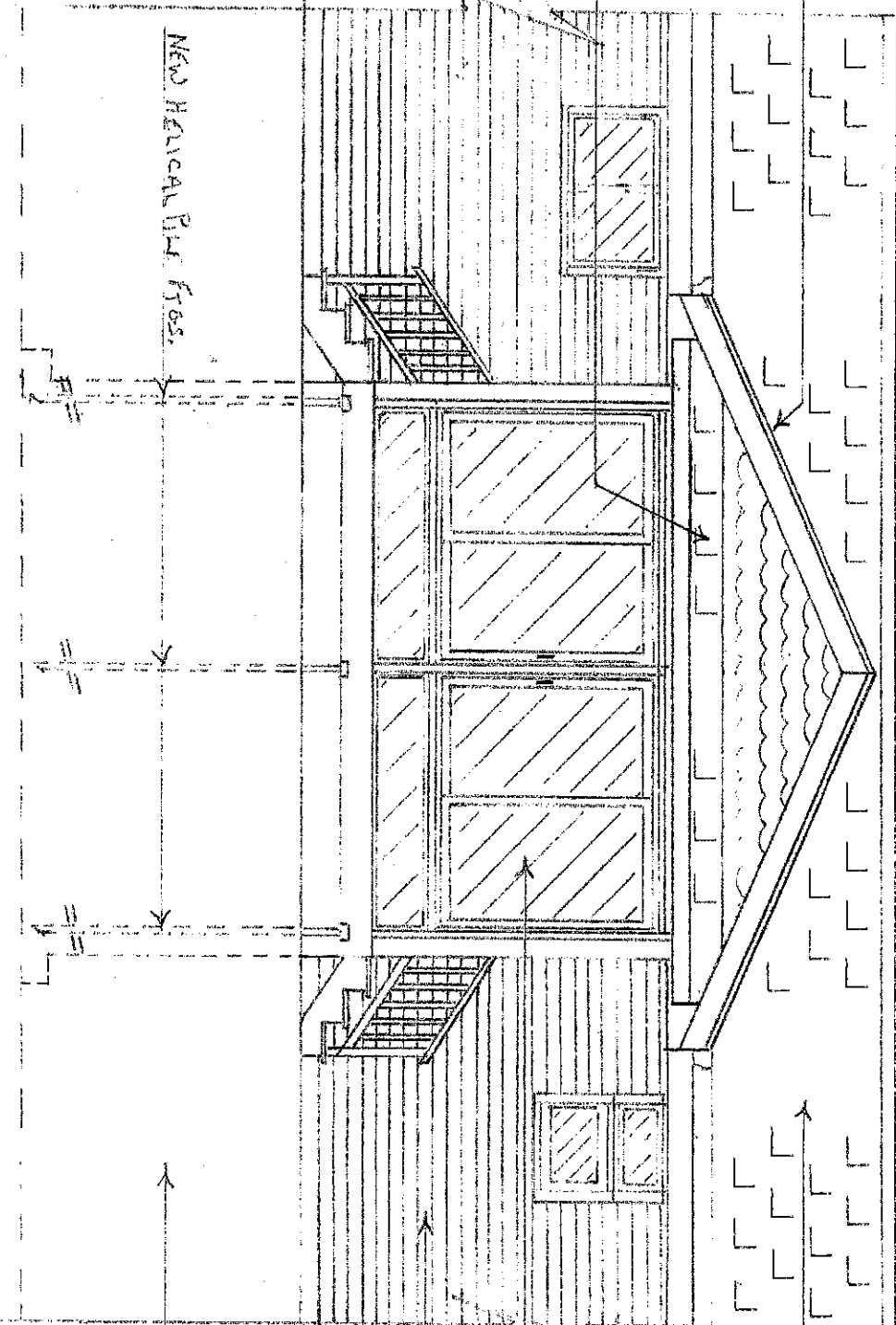
SYSTEM WITH

LOW-SLOPE ROLLED

ROOFING COLOR

TO MATCH EXISTING

CHAMPION ROOF
SYSTEM WITH
LOW-SLOPE ROLLED
ROOFING COLOR
TO MATCH EXISTING



NEW HELICAL PILE FROGS

EXISTING HOUSE

ROOF

CHAMPION WALL

SYSTEM B WALL

EXISTING HOUSE

WALL

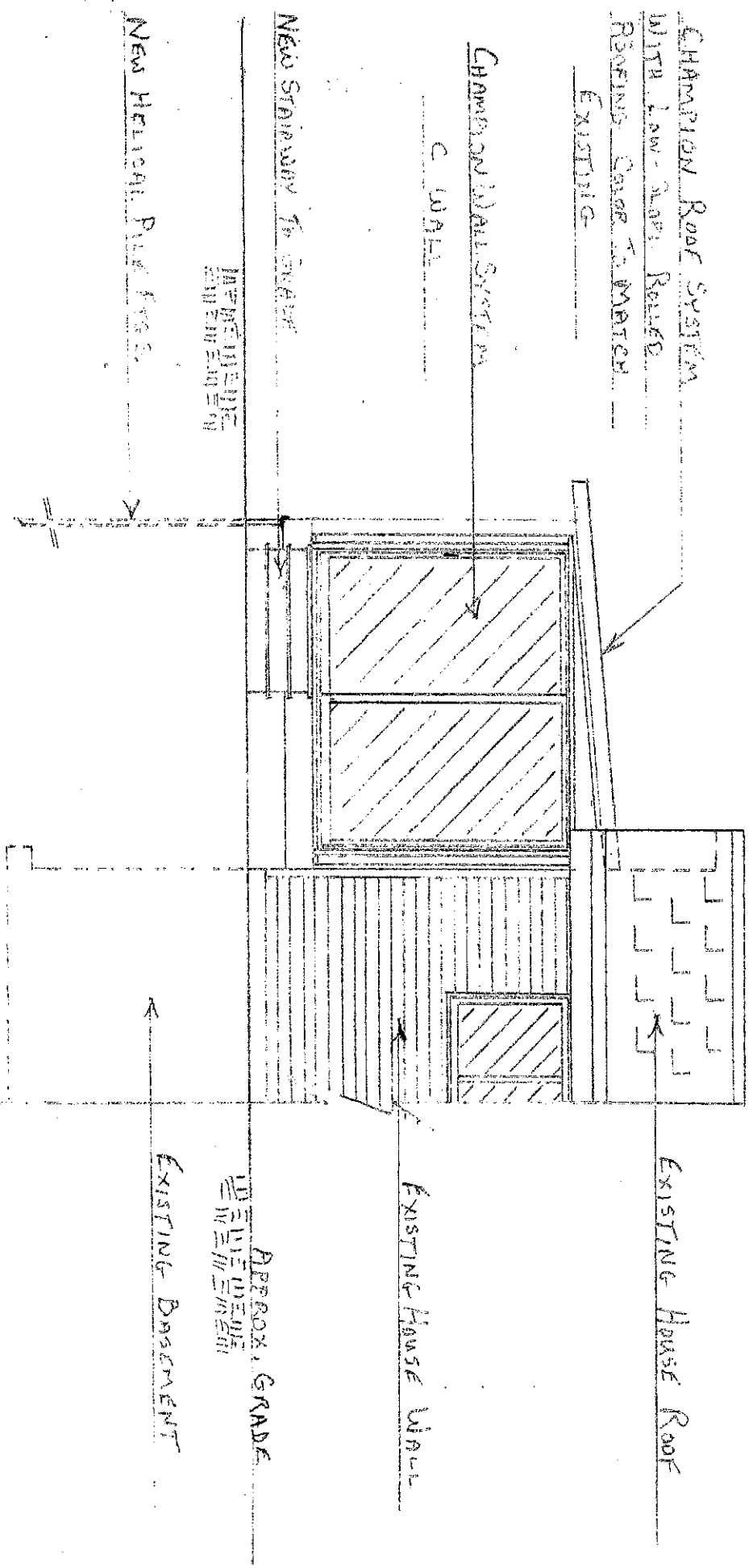
APPROX. GRADE
EXISTING ELEVATION

EXISTING ELEVATION

LEFT SIDE OF HOUSE ELEVATION

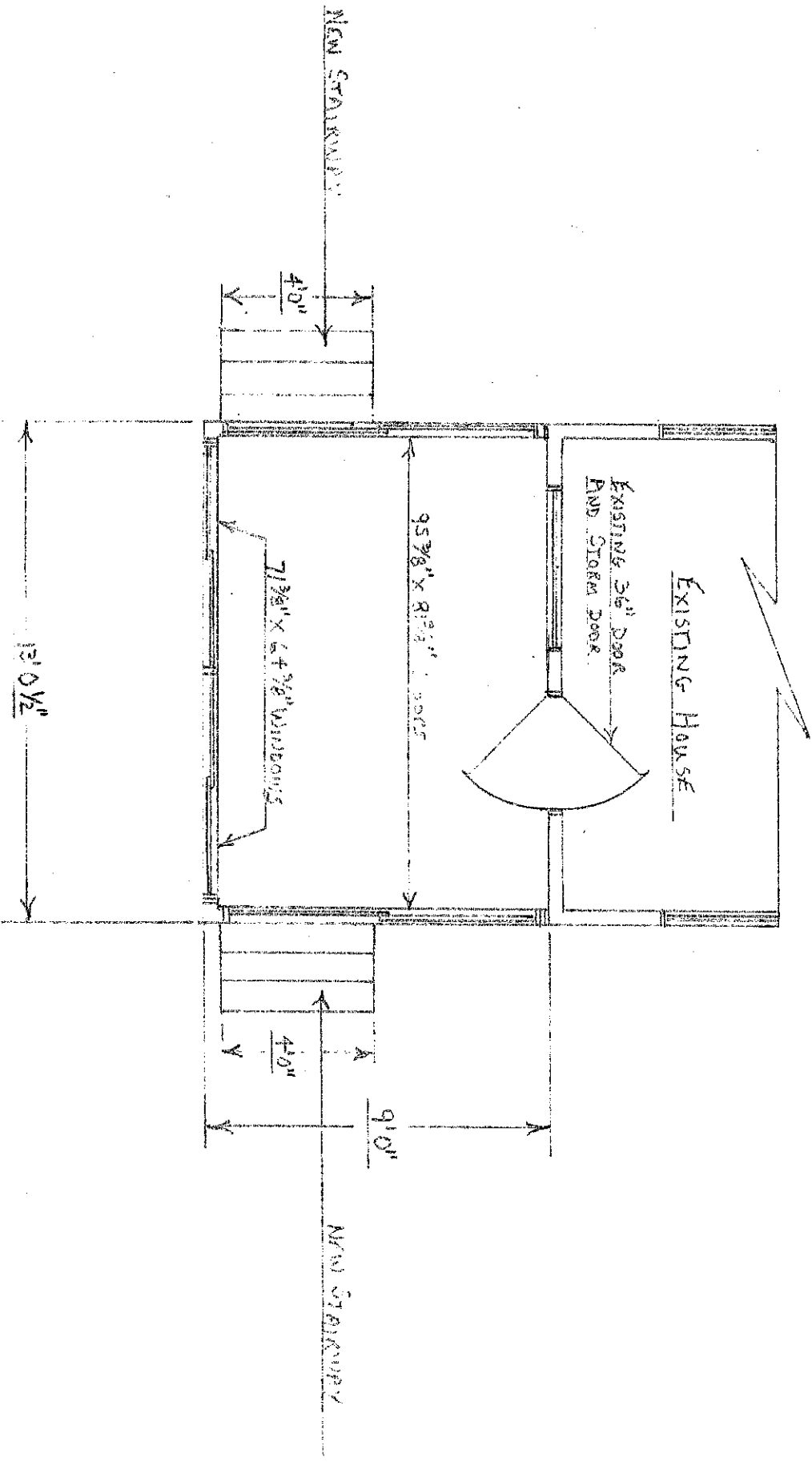
SCALE: 1/4" = 1'-0"

NOTE: OVERSET SIGN OF
NEW GARAGE (A WALL)
IS MARKED IMAGE 20
THIS SIDE (C WALL)



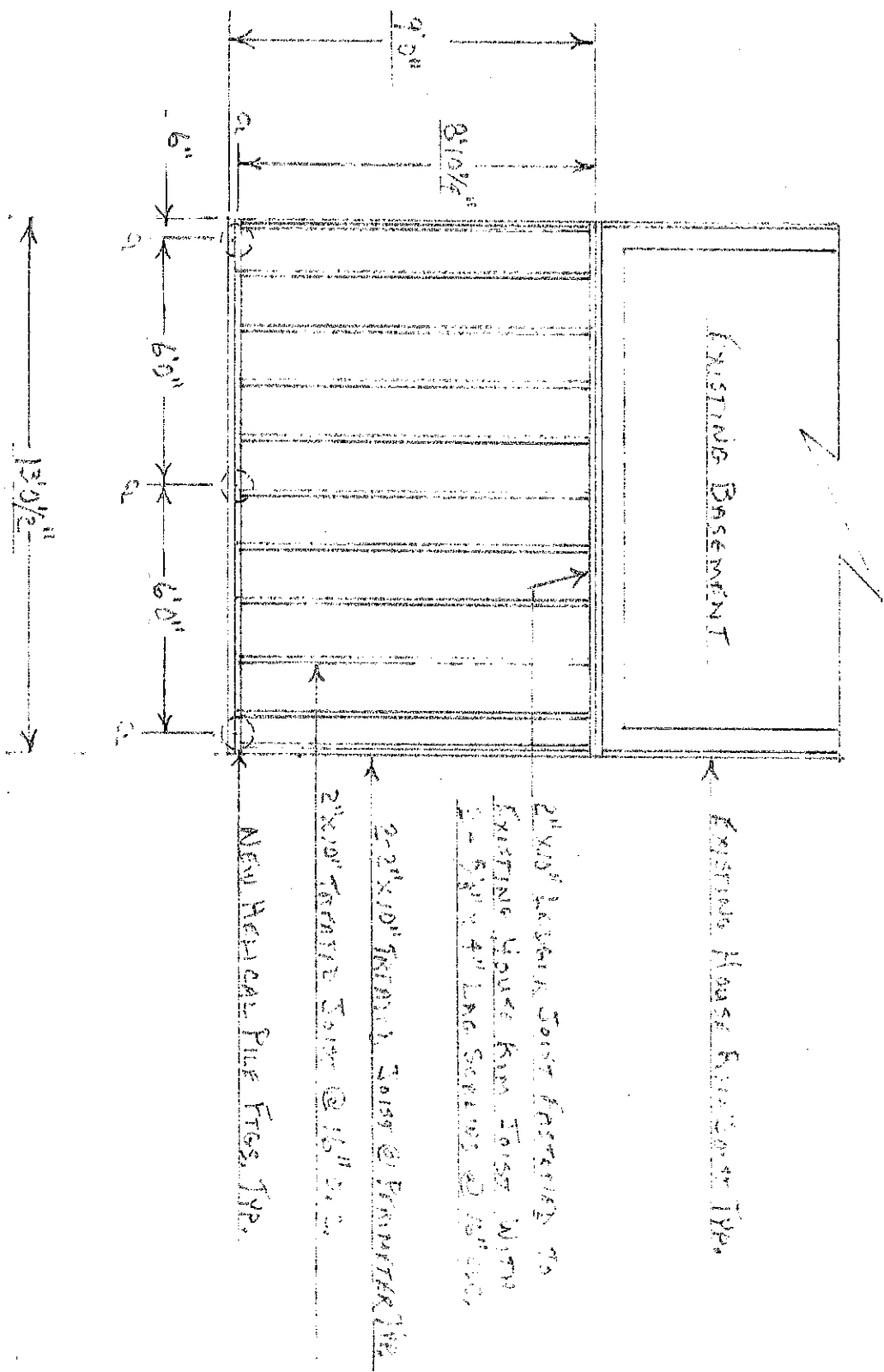
FLOOR PLAN

SCALE: $\frac{1}{4}" = 1'0"$



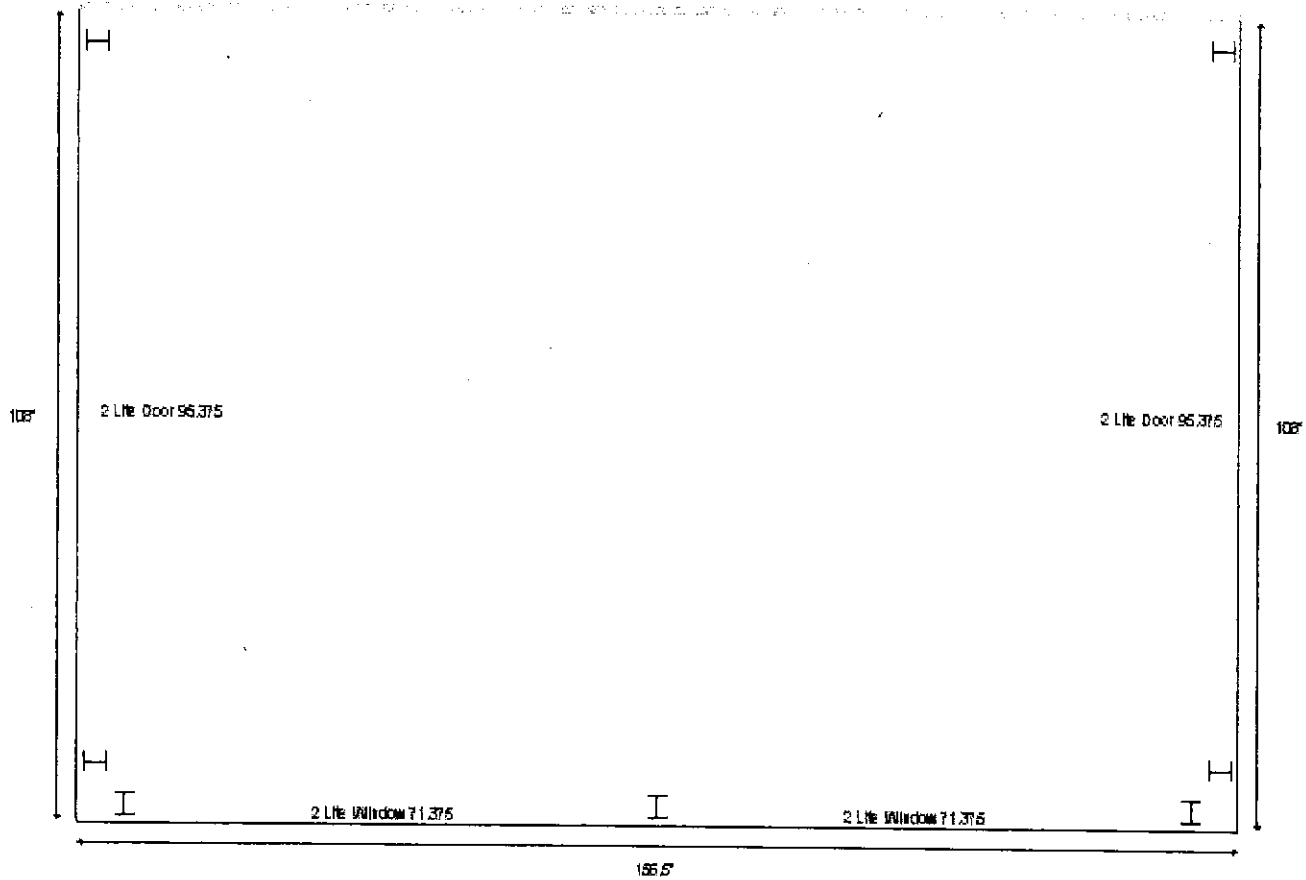
DECK FRAMING DETAIL

Scale 1/4" = 1'-0"



ORDER NO: 1674
ITEM: 1
DATE: 07/09/20

Floor Plan

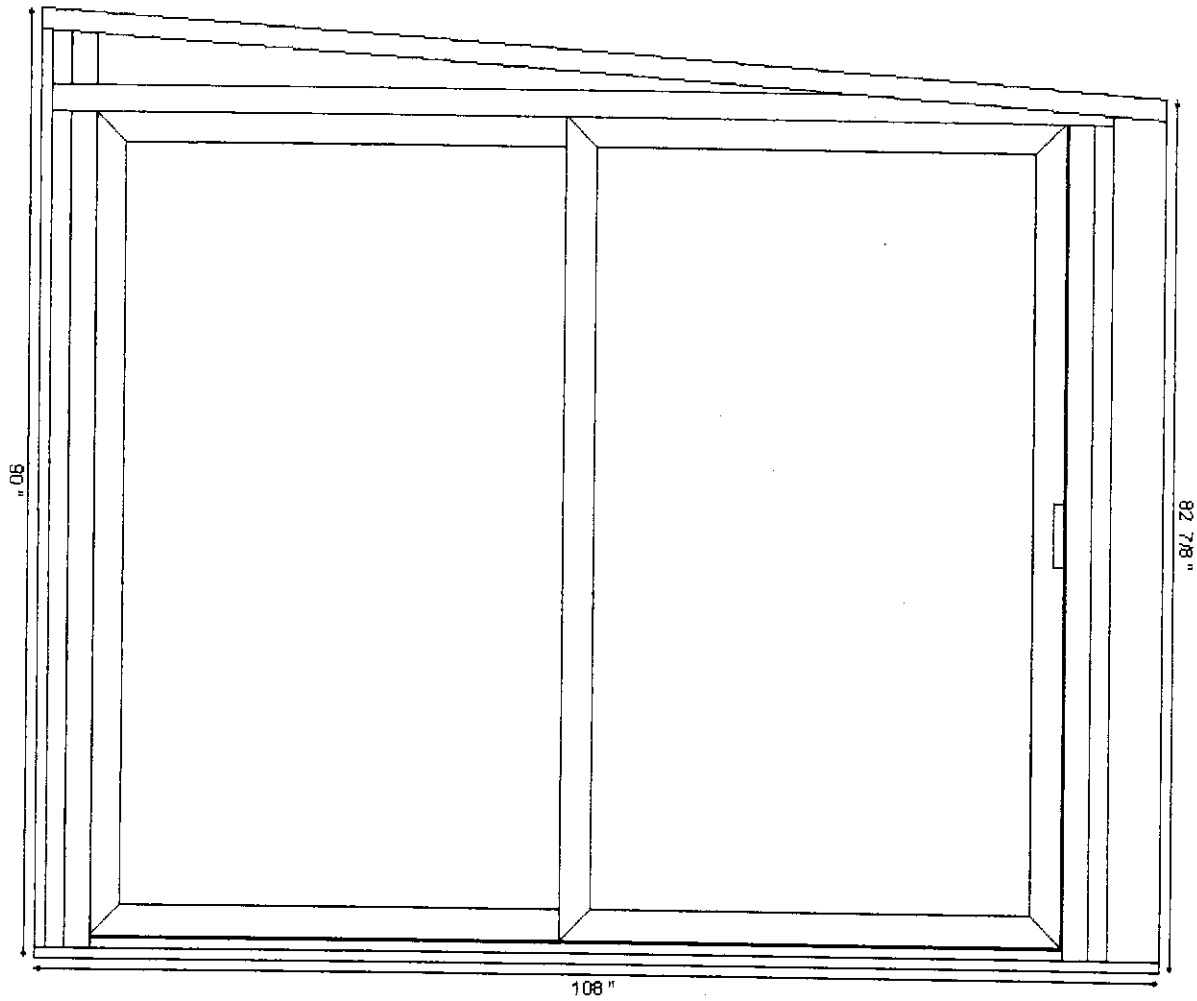


Dimensions

Attachment Height: 90 "
B Wall Height: 82.875 "
B Wall Width: 156.5 "
A Wall Width: 108 "
C Wall Width: 108 "
Roof Overhang: 12 "

ORDER NO:	1674
ITEM:	1
DATE:	07/09/20

A Wall



Dimensions

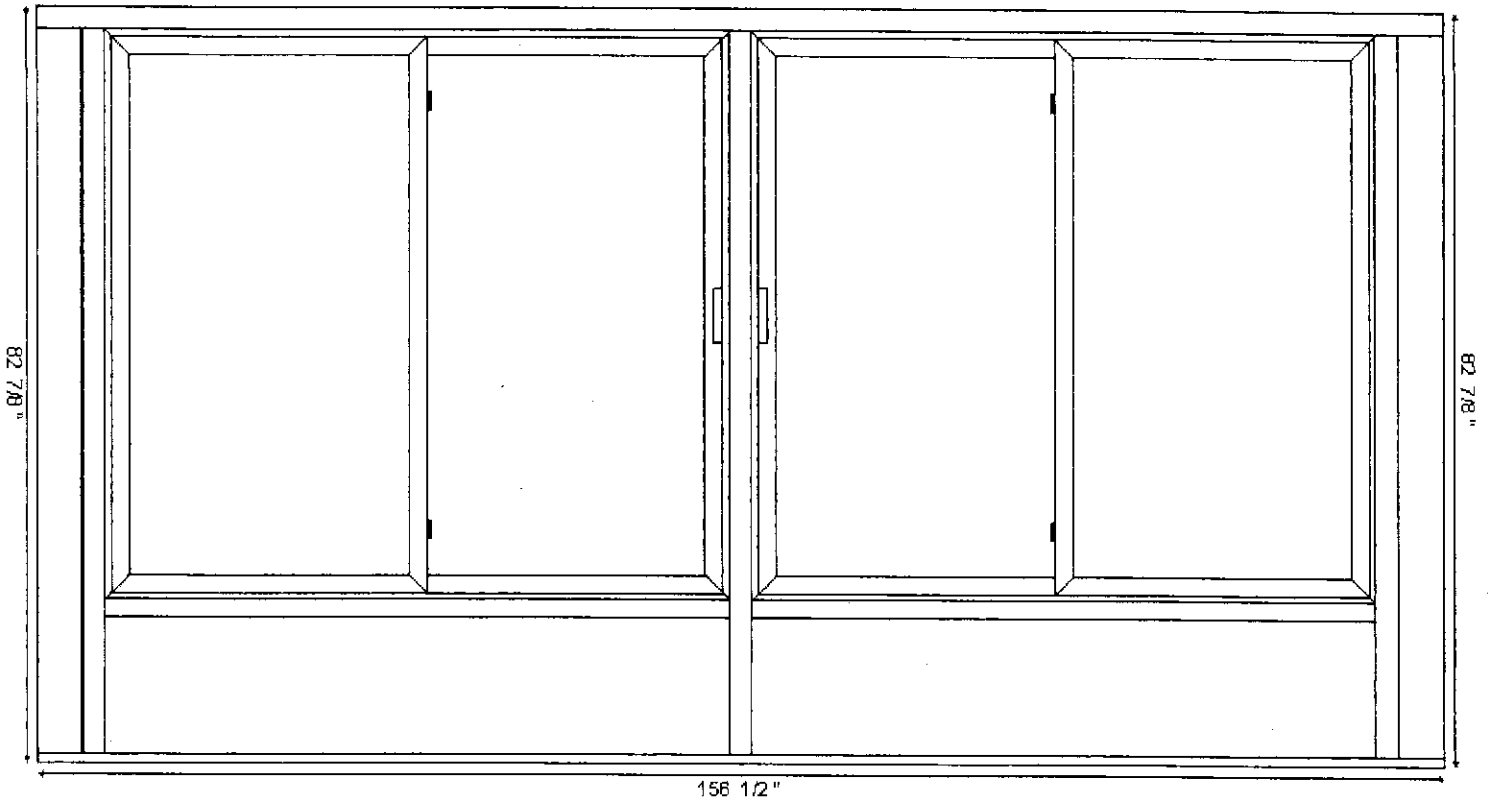
Attachment Height: 90 "
 B Wall Height: 82.875 "
 A Wall Width: 108 "
 Roof Overhang: 12 "

Layout

0" (Fascia) + 3.8125" (Foam) + 0.5" (THERMAL H) + 95.375" (2 Lite Door) + 0.5" (THERMAL H) + 3.8125" (Foam) + 4" (Corner Post)

ORDER NO: 1674
ITEM: 1
DATE: 07/09/20

B Wall



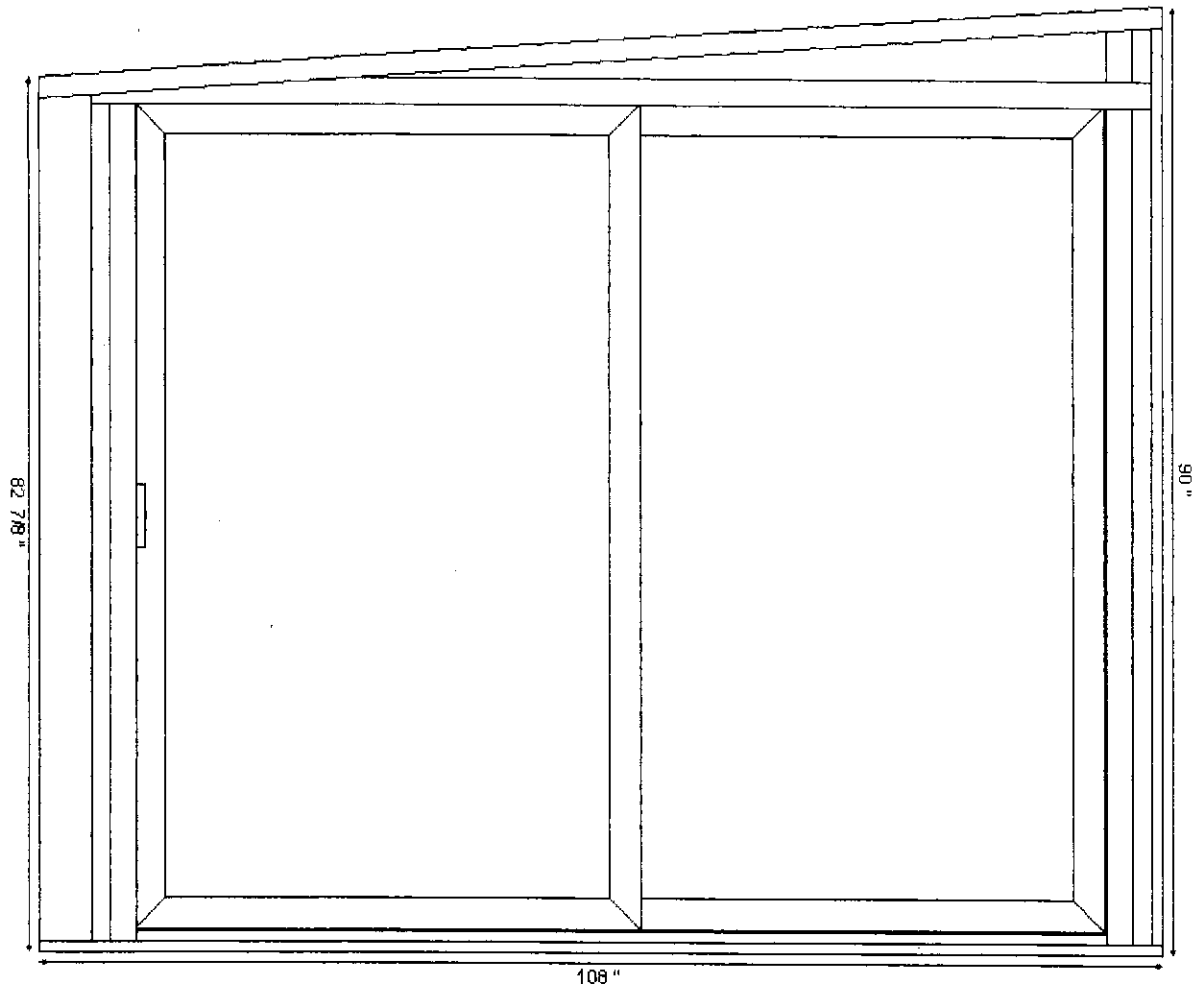
Dimensions

Attachment Height: 90 "
B Wall Height: 82.875 "
B Wall Width: 156.5 "
Roof Overhang: 12 "

Layout

4" (Corner Post) + 2.125" (Foam) + 0.5" (THERMAL H) + 71.375" (2 Lite Window) + 0.5" (THERMAL H) +
71.375" (2 Lite Window) + 0.5" (THERMAL H) + 2.125" (Foam) + 4" (Corner Post)

C Wall



Dimensions

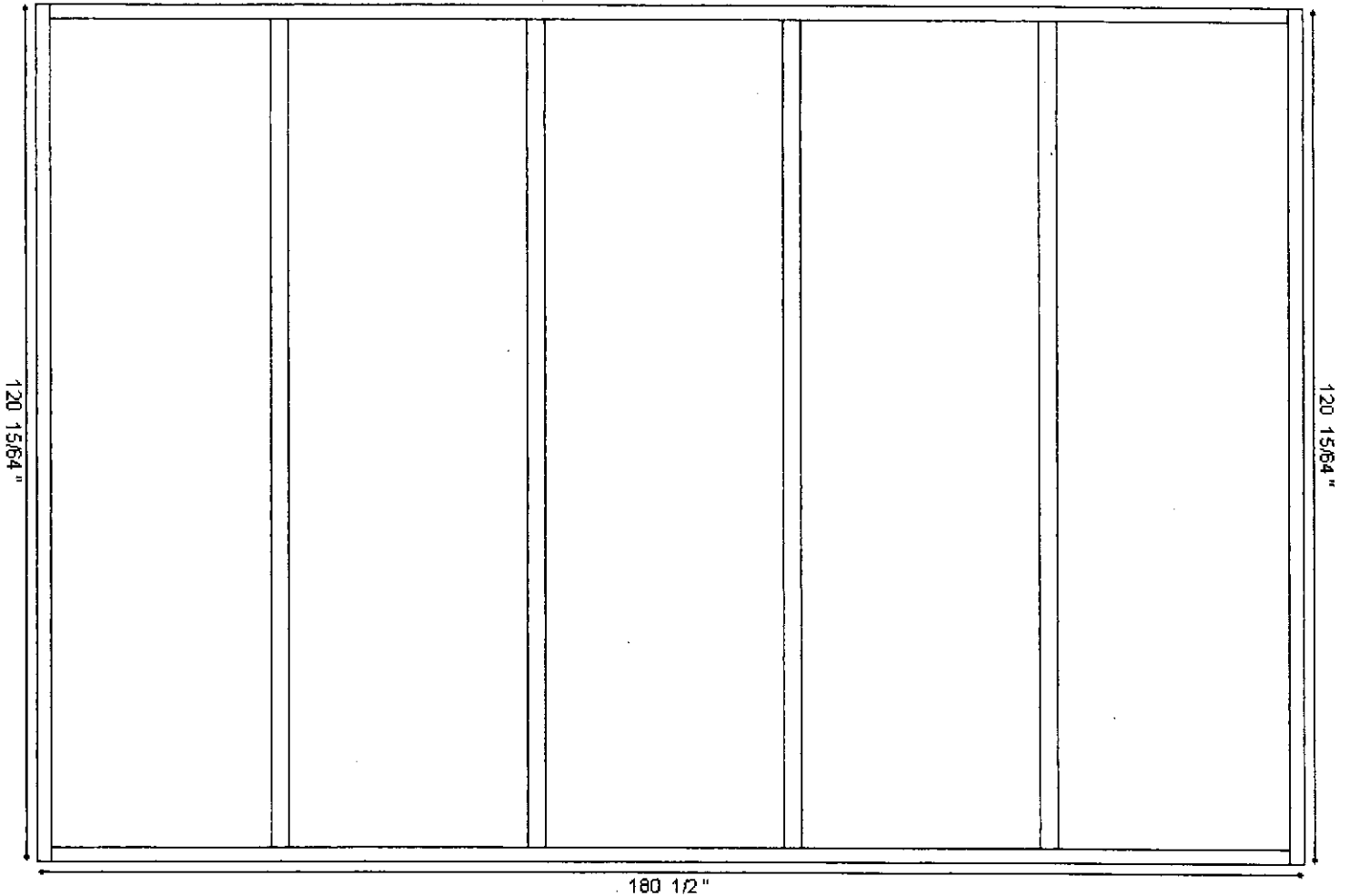
Attachment Height: 90 "
 B Wall Height: 82.875 "
 C Wall Width: 108 "
 Roof Overhang: 12 "

Layout

4" (Corner Post) + 3.8125" (Foam) + 0.5" (THERMAL H) + 95.375" (2 Lite Door) + 0.5" (THERMAL H) + 3.8125" (Foam) + 0" (Fascia)

ORDER NO: 1674
ITEM: 1
DATE: 07/10/20

Roof

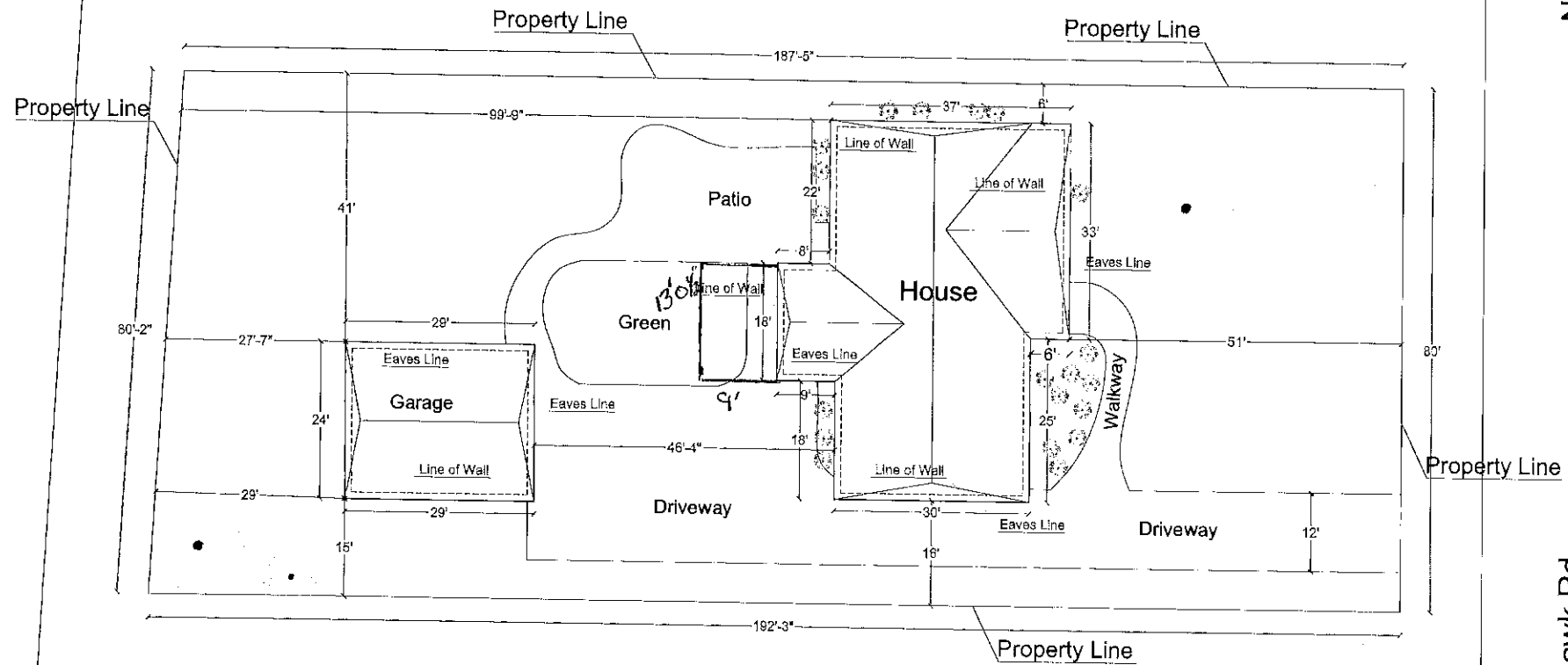


Dimensions

Attachment Height: 90 "
B Wall Height: 82.875 "
B Wall Width: 156.5 "
A Wall Width: 108 "
C Wall Width: 108 "
Roof Overhang: 12 "



N Port Washington Rd



W Willow Rd

N Mohawk Rd

N Mohawk Rd



Plot Plan for:

Owner: Robinette ,W Thomas, Maria E

Address: 8075 N Mohawk Rd

Lot:2

Submitted by:

Subdivision: Barrett Sub

Parcel/Locator: 0600002000

Scale: 1"=20'

CES
CHAMPION ENCLOSURE SUPPLIERS
 12111 CHAMPION WAY, CINCINNATI, OH 45241
 PH: (513) 752-3900 FAX: (513) 752-3903

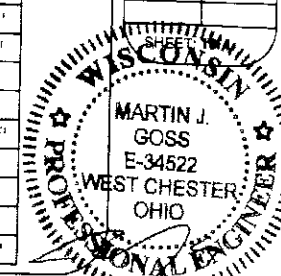
CHAMPION WINDOWS AND PATIO ROOM
 PLANS AND DETAILS FOR A
 LUMBER DECK SUPPORTING A
 CHAMPION PATIO ROOM

DATE: JUL 2, 2018

SCALE: 1/4" = 1'-0"

Drawn by: MJB

REV: DATE:



2/17/2020

PLAN 1: FLOOR PLAN WITH ONE BEAM SUPPORT

PLAN 2: FLOOR PLAN WITH TWO BEAM SUPPORTS

PLAN 3: FLOOR PLAN WITH THREE BEAM SUPPORTS

TABLE 2: ALLOWABLE JOIST SPANS

SPECIES	JOIST SIZE	40 PSF LIVE LOAD		
		1'-0"	1'-4"	2'-0"
SOUTHERN PINE NO. 2	2X6	10'-3"	9'-4"	7'-6"
	2X8	13'-6"	11'-4"	9'-8"
	2X10	16'-2"	14'-0"	11'-4"
	2X12	19'-1"	16'-6"	13'-5"
DOUGL. FIR NO. 2	2X6	10'-5"	9'-0"	7'-4"
	2X8	13'-2"	11'-5"	9'-4"
	2X10	16'-1"	13'-11"	11'-4"
	2X12	18'-6"	16'-2"	13'-2"
HEM. FIR No. 2 SPF	2X6	9'-2"	8'-4"	7'-2"
	2X8	12'-3"	11'-1"	9'-1"
	2X10	15'-6"	13'-6"	11'-1"
	2X12	18'-2"	15'-8"	12'-10"
REDWOOD No. 2 WESTERN CEDAR No. 2	2X6	9'-2"	8'-4"	7'-3"
	2X8	12'-1"	11'-0"	9'-2"
	2X10	15'-9"	13'-9"	11'-3"
	2X12	14'-4"	16'-0"	13'-0"

TABLE 1: MINIMUM REQUIRED LAG SCREW OR BOLTED CONNECTION BETWEEN 2X LEDGER AND EXISTING STRUCTURE

PANEL SPAN (FT)	DECK LIVE LOAD 40 LBS/FT
7'	(2) - 5/8" @ 24" C/C
8'	(2) - 5/8" @ 16" C/C
9'	(2) - 5/8" @ 16" C/C
10'	(2) - 5/8" @ 16" C/C
12'	(2) - 5/8" @ 16" C/C
14'	(2) - 5/8" @ 16" C/C
16'	(2) - 5/8" @ 16" C/C

TABLE 3: MINIMUM REQUIRED BEARING AREA OF FOOTINGS

BEAM 1: TRIANGULAR LOAD WIDTH - (A + B) / 2	BEAM 2: TRIANGULAR LOAD WIDTH - A / 2	BEAM 3: TRIANGULAR LOAD WIDTH - B / 2
4" MIN FOR DECKS UP TO 8" HIGH	4" MIN FOR DECKS UP TO 8" HIGH	4" MIN FOR DECKS UP TO 8" HIGH
4" MIN FOR DECKS UP TO 8" HIGH	4" MIN FOR DECKS UP TO 8" HIGH	4" MIN FOR DECKS UP TO 8" HIGH
4" MIN FOR DECKS UP TO 8" HIGH	4" MIN FOR DECKS UP TO 8" HIGH	4" MIN FOR DECKS UP TO 8" HIGH

SPECIES	BEAM SIZE	40 PSF LIVE LOAD									
		TRIPLY LOAD WIDTH (FT)									
		4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	
SOUTHERN PINE NO.2	2/2X6	7'-1"	6'-4"	5'-9"	5'-4"	5'-0"	4'-8"	----	----	----	
	2/2X8	9'-0"	8'-0"	7'-4"	6'-9"	6'-4"	6'-0"	5'-8"	5'-4"	5'-2"	
	2/2X10	10'-8"	9'-6"	8'-9"	8'-0"	7'-6"	7'-1"	6'-9"	6'-4"	6'-2"	
	2/2X12	12'-6"	11'-5"	10'-5"	9'-6"	8'-10"	8'-4"	7'-11"	7'-6"	7'-3"	
	4X6	7'-8"	6'-10"	6'-5"	5'-9"	5'-4"	5'-1"	4'-10"	4'-6"	4'-4"	
	4X8	10'-2"	9'-1"	8'-4"	7'-8"	7'-2"	6'-9"	6'-4"	6'-1"	5'-10"	
	4X10	12'-1"	10'-10"	9'-0"	8'-4"	8'-6"	8'-0"	7'-8"	7'-3"	7'-0"	
	4X12	14'-5"	12'-9"	11'-6"	10'-8"	10'-0"	9'-6"	9'-0"	8'-6"	8'-2"	

SPECIES	BEAM SIZE	40 PSF LIVE LOAD									
		TRIPLY LOAD WIDTH (FT)									
		4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	
REDWOOD NO.2/ WESTERN CEDAR NO.2	2/2X6	6'-9"	6'-0"	5'-6"	5'-1"	4'-9"	4'-6"	----	----	----	
	2/2X8	8'-6"	7'-8"	7'-0"	6'-4"	6'-0"	5'-9"	5'-4"	5'-2"	4'-11"	
	2/2X10	10'-4"	9'-4"	8'-6"	7'-11"	7'-4"	7'-0"	6'-8"	6'-5"	6'-0"	
	2/2X12	12'-2"	10'-9"	9'-11"	9'-2"	8'-7"	8'-1"	7'-8"	7'-4"	7'-0"	
	4X6	7'-4"	6'-6"	5'-11"	5'-6"	5'-2"	4'-10"	4'-6"	4'-5"	----	
	4X8	9'-6"	8'-6"	7'-10"	7'-5"	6'-10"	6'-4"	6'-1"	5'-10"	5'-6"	
	4X10	11'-10"	10'-6"	9'-8"	9'-11"	8'-4"	7'-10"	7'-5"	7'-1"	6'-10"	
	4X12	15'-9"	12'-4"	11'-5"	10'-4"	9'-9"	9'-2"	8'-8"	8'-3"	7'-11"	

SPECIES	BEAM SIZE	40 PSF LIVE LOAD									
		TRIPLY LOAD WIDTH (FT)									
		4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	
DOUGLASS PINE NO.2/ SPF NO.2/ HEMLOCK NO.2	2/2X6	6'-4"	5'-7"	5'-2"	4'-3"	----	----	----	----	----	
	2/2X8	8'-5"	7'-7"	6'-11"	6'-4"	6'-0"	5'-7"	5'-4"	5'-1"	4'-10"	
	2/2X10	10'-4"	9'-3"	8'-4"	7'-10"	7'-5"	6'-10"	6'-6"	6'-3"	5'-11"	
	2/2X12	12'-0"	10'-8"	9'-9"	9'-1"	8'-5"	8'-0"	7'-7"	7'-3"	6'-11"	
	4X6	6'-10"	6'-1"	5'-7"	5'-2"	4'-10"	4'-6"	----	----	----	
	4X8	9'-0"	8'-1"	7'-4"	6'-10"	6'-4"	6'-0"	5'-8"	5'-5"	5'-2"	
	4X10	11'-7"	10'-5"	9'-6"	8'-2"	8'-3"	7'-9"	7'-4"	7'-0"	6'-8"	
	4X12	15'-7"	12'-1"	11'-4"	10'-5"	9'-7"	9'-0"	8'-7"	8'-0"	7'-10"	

DECK PROJECTION (FT)	AXIAL LOADS ON POST (LBS)													
	DECK WIDTH (FT)													
	10	11	12	13	14	15	16	17	18	19	20	21	22	
10	1250	1375	1500	1625	1750	1875	2000	2125	2250	2375	2500	2625	2750	
11	1375	1515	1650	1788	1925	2065	2200	2338	2475	2615	2750	2888	3025	
12	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	3150	3300	
13	1625	1788	1950	2115	2275	2438	2600	2765	2925	3088	3250	3415	3575	
14	1750	1925	2100	2275	2450	2625	2800	2975	3150	3325	3500	3675	3850	
15	1875	2065	2250	2438	2625	2815	3000	3188	3375	3565	3750	3938	4125	
16	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	
17	2125	2338	2550	2765	2975	3188	3400	3615	3825	4038	4250	4465	4675	
18	2250	2475	2700	2925	3150	3375	3600	3825	4050	4275	4500	4725	4950	

NOTE:
TABLE 4 SHOWS AXIAL LOADS FOR POSTS AS DETAILED IN PLAN 1, PLAN 2 AND PLAN 3 SHEET 1.
FOR ALL PLAN 11 CONFIGURATIONS AND PLAN 2 AND PLAN 3 CONFIGURATIONS WHERE PANEL SPAN A AND B ARE EQUAL.
AXIAL LOADS ON POST 2 = TABULATED VALUES DIVIDED BY TWO.
AXIAL LOADS ON POST 3 = TABULATED VALUES DIVIDED BY FOUR.
TABLE DOES NOT INCLUDE ENCLOSURE COLUMN LOADS. THESE CAN BE OBTAINED FROM TABLE 4 FOR LOAD BEARING COLUMNS AND FROM THE ENGINEERING PACKAGE FOR THE ROOM FOR RIDGE POST LOADS.

PATIO ROOM ROOF SPAN (FT)	CHAMPION PATIO ROOM LOAD BEARING COLUMN SPACING (FT)								
	ROOF LOAD: 20PSF			ROOF LOAD: 30PSF			ROOF LOAD: 40 PSF		
	4'	6'	8'	4'	6'	8'	4'	6'	8'
8	460	690	920	660	990	1320	860	1290	1720
10	552	828	1104	792	1188	1584	1032	1548	2064
12	644	966	1288	924	1386	1848	1204	1806	2408
14	736	1104	1472	1056	1584	2112	1376	2064	2752
16	828	1242	1656	1188	1782	2376	1548	2322	3096
18	920	1380	1840	1320	1980	2640	1720	2580	3440
20	1012	1518	2024	1452	2178	2904	1892	2858	3784

- NOTE:
- THE AXIAL LOADS PRESENTED IN THIS TABLE ARE FOR THE LOAD BEARING COLUMNS IN A CHAMPION PATIO ROOM USING CHAMPION 5 STANDARD SANDWICH PANEL ROOF ONLY.
 - FOR PATIO ROOMS UTILIZING CHAMPION 5 ORB ROOF PANELS, THE INPUT ROOF LOAD VALUE SHALL BE THE DESIGN ROOF SNOW LOAD PLUS SPF.
 - THIS TABLE DOES NOT APPLY TO THE PATIO ROOM RIDGE POST. THE RIDGE POST LOADS SHALL BE DETERMINED FROM THE CHAMPION PATIO ENCLOSURE ENGINEERING PACKAGE.
 - LINEAR INTERPOLATION IS PERMITTED.

ALLOWABLE SOIL BEARING CAPACITY	AXIAL LOADS ON POST (LBS)									
	500	1000	1500	2000	2500	3000	3500	4000	5000	
1000	12"Ø	14"Ø	17"Ø	20"Ø	22"Ø	24"Ø	26"Ø	28"Ø	31"Ø	
1500	12"Ø	12"Ø	14"Ø	16"Ø	18"Ø	20"Ø	21"Ø	23"Ø	25"Ø	
2000	12"Ø	12"Ø	12"Ø	14"Ø	16"Ø	17"Ø	18"Ø	20"Ø	22"Ø	
2500	12"Ø	12"Ø	12"Ø	13"Ø	14"Ø	15"Ø	17"Ø	18"Ø	20"Ø	
3000	12"Ø	12"Ø	12"Ø	12"Ø	13"Ø	14"Ø	15"Ø	16"Ø	20"Ø	
3500	12"Ø	12"Ø	12"Ø	12"Ø	13"Ø	13"Ø	14"Ø	15"Ø	18"Ø	
4000	12"Ø	12"Ø	12"Ø	12"Ø	12"Ø	12"Ø	12"Ø	14"Ø	17"Ø	

- NOTE:
- AXIAL LOADS SHALL BE THE COMBINATION OF DEAD LOADS FROM TABLE 4 PLUS THE PATIO ENCLOSURE LOADS DETERMINED FROM TABLE 5 FOR LOAD BEARING COLUMNS.
 - RIDGE POST LOADS MUST BE DETERMINED FROM THE ENCLOSURE ENGINEERING PACKAGE.
 - FOOTINGS THAT ARE FOUND TO BE LESS THAN 18" BELOW GRADE SHALL BE A MINIMUM OF 18" X 18" X 2' FILL.

CES
CHAMPION ENCLOSURE SUPPLIERS
12111 CHAMPION WAY, CINCINNATI, OH 45241
PH: (513) 782-3900 FAX: (513) 782-3903

CHAMPION WINDOWS AND PATIO ROOM
PLANS AND DETAILS FOR A
LUMBER DECK SUPPORTING A
CHAMPION PATIO ROOM

DATE: OCT 15, 2010

SCALE: 1/8"

Drawn by: ELM

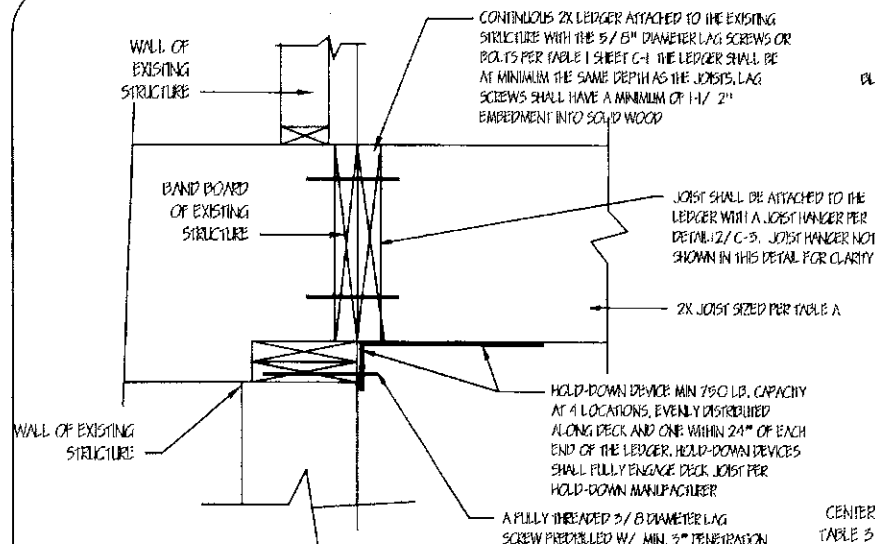
REV: DATE:

DATE: OCT 15, 2010

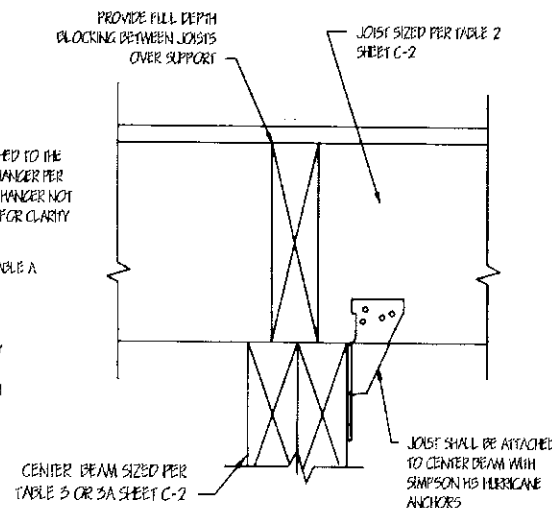
MARTIN J. GOSS
E-34522
WEST CHESTER, OHIO

PROFESSIONAL ENGINEER

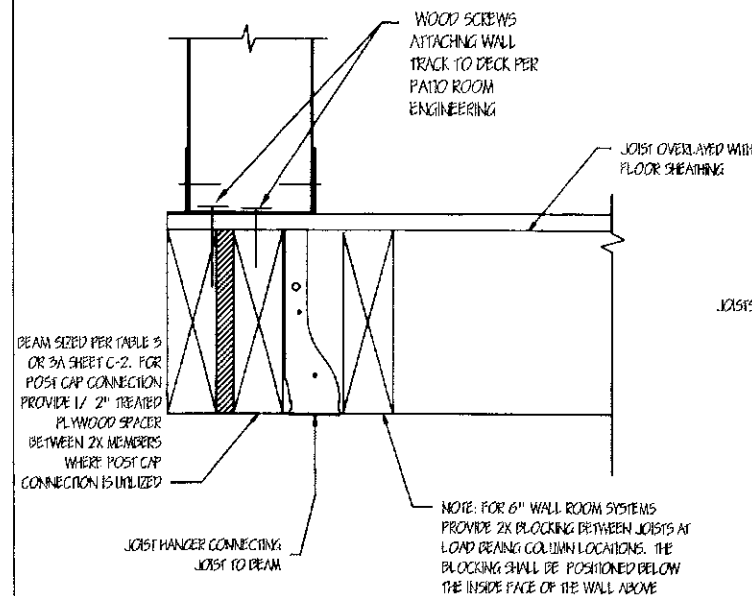
2/12/2020



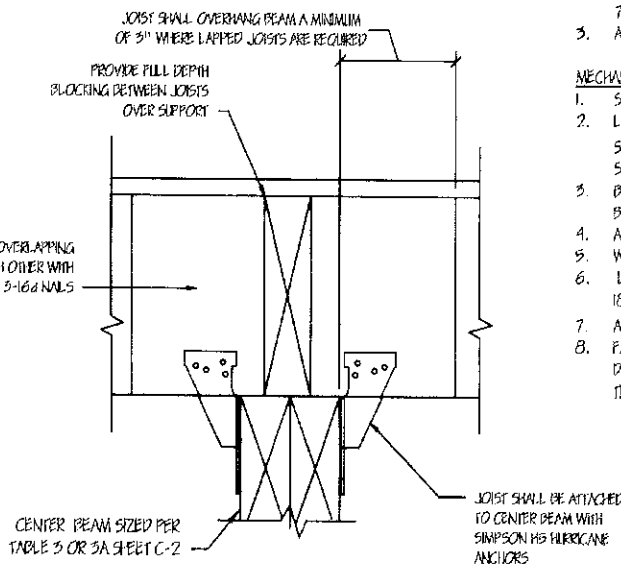
14
C-1 DECK TO HOUSE CONNECTION DETAIL



16
C-2 CONNECTION DETAIL AT CENTER BEAM



15
C-3 CONNECTION DETAIL FOR BEAM AT DECK PERIMETER



17
C-4 CONNECTION DETAIL AT CENTER BEAM

GENERAL NOTES AND SPECIFICATIONS

1. THE STRUCTURAL DESIGN FOR THE DECK HAS BEEN PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF 2009, 2012, 2015 AND 2018 EDITIONS OF THE IRC CODES AND UTILIZING THE FOLLOWING REFERENCED STANDARDS: 2009, 2012, 2015 AND 2018 NDS FOR WOOD.
2. THESE PLANS COVER THE DESIGN OF THE DECK AND ITS CONNECTION TO THE EXISTING STRUCTURE. THE STRUCTURAL ADEQUACY OF THE EXISTING STRUCTURE TO SUPPORT THE TRANSFERRED LOADS IS BEYOND THE SCOPE OF THIS PACKAGE AND SHOULD BE VERIFIED BY OTHERS.
3. A MAXIMUM DESIGN HORIZONTAL WIND LOAD OF 30 PSF WAS USED IN THE DESIGN OF THE DECK CONNECTIONS. THE TERM "PATIO ROOM" IN THESE DRAWINGS REFERS SOLELY TO LIGHT GAUGE ALUMINUM FRAME STRUCTURES MANUFACTURED BY CHAMPION ENCLOSURE SUPPLIERS. THESE DRAWINGS ARE ONLY VALID WHEN THE PATIO ROOMS ARE CONSTRUCTED IN ACCORDANCE WITH THE CHAMPION ENCLOSURE SUPPLIERS PATIO ROOM ENGINEERING.
- 4.

MATERIALS

DIMENSIONAL LUMBER

1. DIMENSIONAL LUMBER SHALL BE DOUGLAS FIR, SOUTHERN PINE, HEM-FIR, SPT, ALL DIMENSIONAL LUMBER SHALL BE GRADE #2 MINIMUM.
2. DIMENSIONAL LUMBER SHALL BE TREATED FOR PREVENTION OF DECAY AS REQUIRED BY THE GOVERNING CODE OF THE LOCALITY.

SOILS

1. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1/2") UNDISTURBED SOIL OR APPROVED ENGINEERING FILL WITH AN ALLOWABLE SOIL BEARING CAPACITY OF 1000 PSF. FOOTINGS SHALL EXTEND BELOW THE FROST LINE OF THE LOCALITY BUT NOT LESS THAN 12" BELOW GRADE.

CONCRETE

1. ALL CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND WHERE EXPOSED TO THE EXTERIOR ENVIRONMENT SHALL HAVE AN ENTRAINED AIR CONTENT OF BETWEEN 5.0% TO 7.0%.
3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 60 KSI DEFORMED BARS AND ASTM A655 MESH.

MECHANICAL FASTENERS

1. SHEET METAL SCREWS (SMS) SHALL BE STAINLESS STEEL WITH TYPE A2 SCREW THREADS.
2. LAG SCREWS SHALL BE GALVANIZED STEEL "FULL BODIED" SCREWS WITH A MINIMUM BENDING YIELD STRENGTH OF 60,000 PSI FOR 5/8" DIAMETER AND 40,000 PSI FOR 3/4" AND LARGER DIAMETER. LAG SCREWS SHALL HAVE A MINIMUM EMBEDMENT DEPTH OF 8 X LAG SCREW DIAMETER.
3. BOLTS SHALL COMPLY TO ANSI/ASME STANDARD B18.21-1961. BOLTS SHALL BE FULL DIAMETER BOLTS WITH A BENDING YIELD STRENGTH OF 70,000 PSI.
4. AG SCREWS SHOULD BE GALVANIZED STEEL WITH A MINIMUM BENDING YIELD STRENGTH OF 60,000 PSI.
5. WOOD SCREWS SHALL HAVE A MINIMUM BENDING YIELD STRENGTH OF 80,000 PSI.
6. L558 LEDGER LOK® SCREWS BY FASTENMASTER AND SHALL HAVE A MINIMUM BENDING STRENGTH OF 153,000 PSI AND SHALL HAVE A MINIMUM EMBEDMENT OF 2" INTO THE MAIN WOOD SUPPORTING MEMBER.
7. ANCHOR BOLTS INTO CONCRETE SHALL BE 3/4" X 2-1/2" WEDGE-BOLT+ ANCHORS BY POWERS FASTENERS.
8. FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL OR SHALL BE HOT DIPPED GALVANIZED PER ASTM A153. HOT DIPPED CONNECTOR PRODUCTS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE ASTM A653 COATING DESIGNATION G-185.

CES
CHAMPION ENCLOSURE SUPPLIERS
12111 CHAMPION WAY, CINCINNATI, OH 45241
PH: (513) 769-3900 FAX: (513) 769-3903

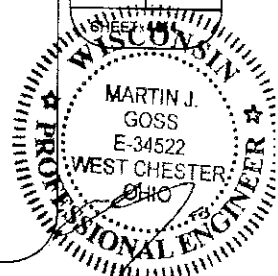
CHAMPION WINDOWS AND PATIO ROOM
PLANS AND DETAILS FOR A
LUMBER DECK SUPPORTING A
CHAMPION PATIO ROOM

DATE: JULY 2, 2019

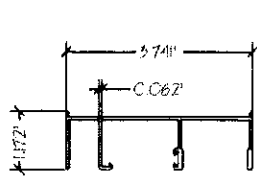
SCALE: 1/8"

Drawn by: JLS

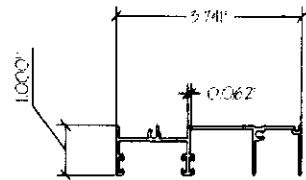
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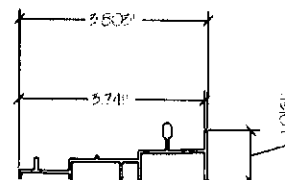
2/17/2020



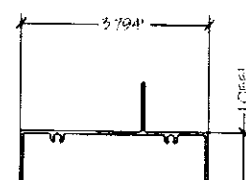
① WINDOW/ DOOR FRAME HEAD



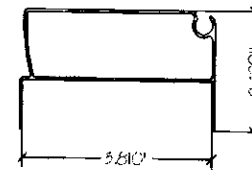
② WINDOW/ DOOR FRAME JAMB



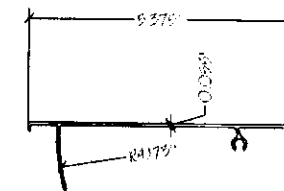
③ WINDOW/ DOOR FRAME SILL



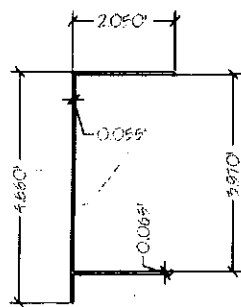
④ RANSOM FRAME



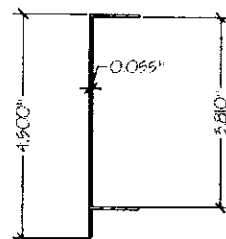
⑤ HEADER BASE



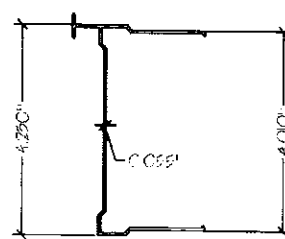
⑥ HEADER ARM



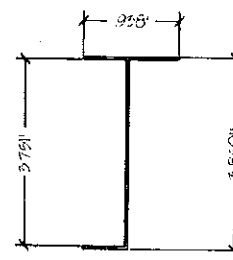
⑦ 4" EXPANDER



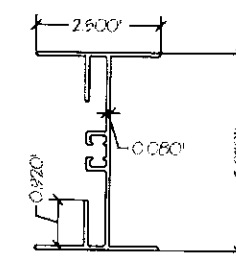
⑧ 4" F-CHANNEL



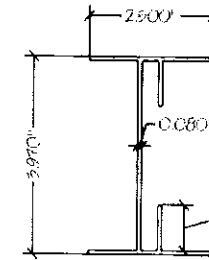
⑨ 4" HANGER BASE



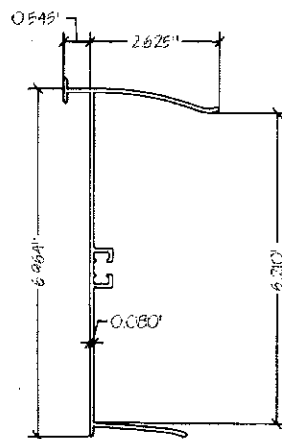
⑩ 4" SILL EXTRUSION



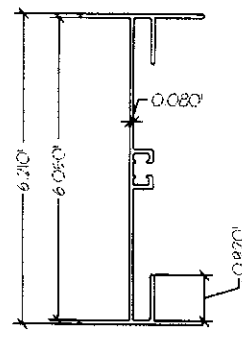
⑪ 4" I-SECTION THERM



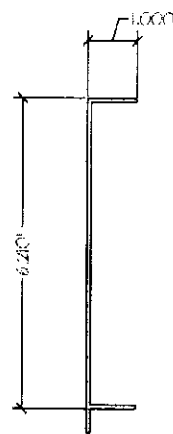
⑫ 4" NON-THERM I-SECTION



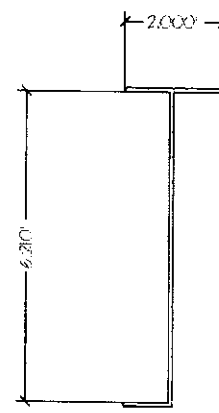
⑬ 6" HANGER BASE



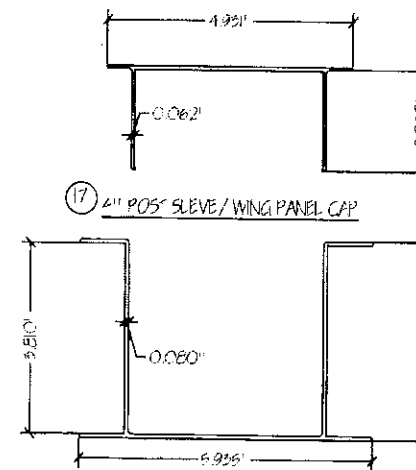
⑭ 6" I-BEAM



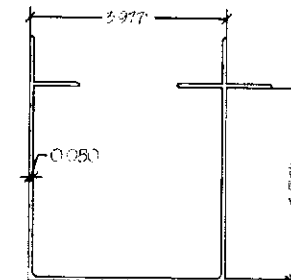
⑮ 6" F-CHANNEL



⑯ 6" SILL



⑰ 4" POST SLEEVE/ WING PANEL CAP



⑱ CORNER POST

CES
CHAMPION ENCLOSURE SUPPLIES
12111 CHAMPION WAY, CINCINNATI, OH 45241
PH: (513) 782-3900 FAX: (513) 782-3903

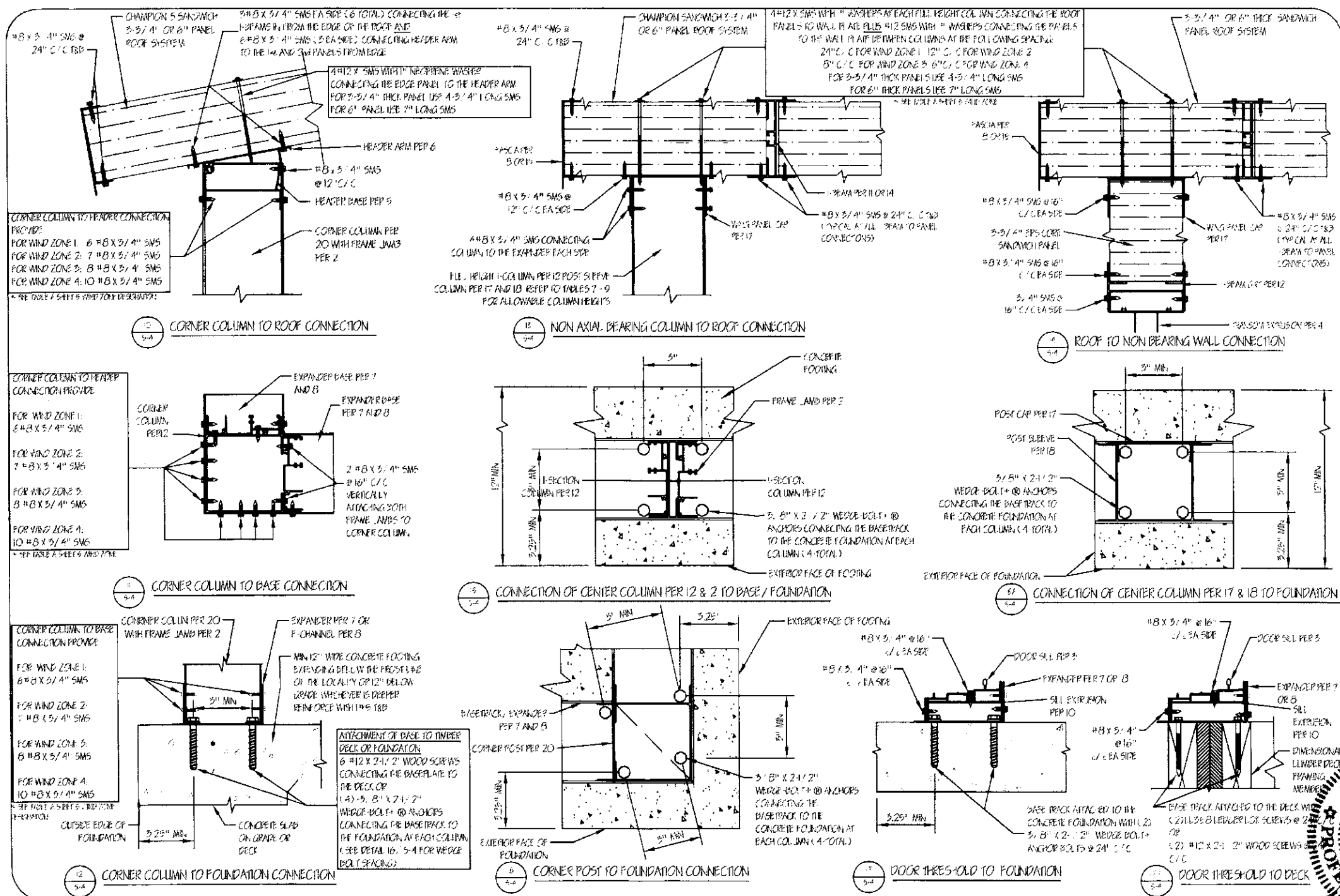
CHAMPION WINDOWS AND PATIO ROOMS
4" Wall System with Studio Style Roof

SECTION DETAILS

DATE: 2/13/19
SCALE: NTS
Drawn by: MJG
REV: DATE:
SHEET: 1 OF 5

WISCONSIN
MARTIN J. GOSS
E-34522
WEST CHESTER, OHIO
PROFESSIONAL ENGINEER

2/17/2025



CES
CHAMPION ENCLOSURE SUPPLIERS
12111 CHAMPION WAY, CINCINNATI, OH 45241
PH: (513) 782-3900 FAX: (513) 782-3903

CHAMPION WINDOWS AND PATIO ROOM
4" Wall System with Studio Style Roof

SECTION DETAILS

DATE: 2/13/19

SCALE: NTS

Drawn by: MJG

REV:	DATE:
------	-------

SHEET: 4 OF 5

MARTIN J.
GOSS
E-34522
WEST CHESTER
OHIO

SECTIONAL LENGTH

SPECIAL DESIGN WIND SPEED	115 MPH RISK CAT. I	130 MPH RISK CAT. II	140 MPH RISK CAT. III	150 MPH RISK CAT. IV
ALLOWABLE STRESS WIND SPEED	90 MPH	100 MPH	110 MPH	120 MPH
EXP. B	WIND ZONE 1	WIND ZONE 2	WIND ZONE 3	WIND ZONE 4
EXP. C	WIND ZONE 2	WIND ZONE 3	WIND ZONE 4	SPECIAL DESIGN REQUIRED
EXP. D	WIND ZONE 3	WIND ZONE 4	SPECIAL DESIGN REQUIRED	SPECIAL DESIGN REQUIRED

1. EXPOSURE CATEGORIES ARE AS DEFINED IN THE IBC AND ASCE-7
2. TABLE APP. 6-2 FOR FACTOR ROOMS WITH MEAN ROOF HEIGHTS UP TO 50' IN EXPOSURE B AND UP TO 15' IN EXPOSURES C AND D FOR ROOMS IN EXPOSURE CATEGORIES C AND D WITH MEAN ROOF HEIGHTS WITH MEAN ROOF HEIGHTS BETWEEN 15' AND 50'. THE NEXT HIGHER WIND ZONE DESIGNATION SHALL BE SELECTED FOR A SITE SPECIFIC DESIGN WILL BE UTILIZED.
3. SITE SPECIFIC DETERMINATION OF WIND PRESSURES IS REQUIRED FOR SITES ON ISOLATED HILLS, RIDGES OR ESCARPMENTS AND ANY ADJUST CHANGES FROM THE GENERAL TOPOGRAPHY OF THE AREA.

WALL SPAN (FT)	ROOF L: 4" SLOPE LOAD (PSF)										WIND ZONE 2			
	20	25	30	35	40	45	50	55	60	70	1	2	3	4
6	92	112	132	140	172	192	212	232	252	292	96	12	145	175
8	115	140	165	190	215	240	265	290	315	365	108	136	165	195
10	138	168	198	228	258	288	318	348	378	458	120	148	178	214
12	161	196	231	266	301	336	371	406	441	541	132	163	197	234
14	184	224	264	304	344	384	424	464	504		145	176	213	251
16	207	252	297	342	387	432					158	192	232	274
18	230	280	330	380							166	206	250	296
20	255	308									175	220	266	318

[illegible]

COLUMN SPACING (FEET)	WIND ZONE *			
	1	2	3	4
60'	8.5	8.5	8.5	8.0
68'	8.5	8.5	8.0	8.0
78'	8.5	8.0	7.5	---
84'	8.5	7.5	---	---
96'	8.0	---	---	---

* 1994年12月31日以前

COLUMN SPACING (K' TO 50')	WIND ZONE *			
	1	2	3	4
60"	10' 0"	9' 5"	8' 10"	8' 5"
68"	9' 8"	9' 0"	8' 7"	8' 2"
78"	9' 5"	8' 6"	8' 2"	---
84"	9' 0"	8' 5"	---	---
96"	8' 0"	---	---	---

* SEE US AT THE CONSIGNMENT OF THE YEAR

COLUMN SPACING (INCHES)	WIND ZONE *			
	1	2	3	4
60"	8.5	8.5	8.5	8.5
65"	8.5	8.5	8.5	8.5
75"	8.5	8.5	8.5	...
84"	8.5	8.5	...	...
96"	8.5	...	...	...

* 2011 年 1 月 1 日起实施

COLUMN SPACING (INCHES)	WIND ZONE *			
	1	2	3	4
60"	13 0"	12 3"	11 2"	10 5"
68"	12 7"	11 6"	10 3"	10 0"
78"	11 10"	10 10"	10 2"	...
84"	11 5"	10 7"	...	...
96"	10 10"	...	...	...

* 港安社社址: 92 號 101 號 海濱花園

WIND ZONE	1	2	3	4
MAX GIRT SPAN (FT)	13' 6"	2' 3"	1' 2"	10' 5"

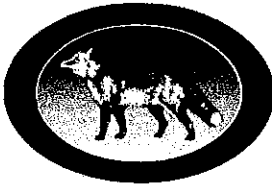
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COLUMN SPACING (KNOTS):	WIND ZONE *			
	1	2	3	4
60"	13' 0"	3' 0"	12' 0"	11' 2"
66"	13' 0"	12' 4"	11' 4"	10' 2"
78"	12' 9"	11' 7"	10' 3"	...
84"	12' 4"	11' 3"	...	...
96"	11' 8"	...	...	...

* 74.281A-RECEIVED 05/28/2006 10:07 AM

* 01 22 11 9000 01 22 11 9000 01 22 11 9000

PANEL THICKNESS (IN)	LIVE LOAD (PSF)	50% SNOW LOAD (PSF)									
		20	20	25	50	55	60	45	50	55	60
4-5/8"	17-4"	6-5 1/2"	15-5 1/2"	14-5 1/2"	13-7 1/2"	12-5 1/2"	12-2 1/2"	11-5 1/2"	11-0 1/2"	10-7 1/2"	9-10"
5"	20	20	15-2"	17-5 1/2"	16-4 1/2"	15-4 1/2"	14-6"	13-8 1/2"	13-2"	12-8 1/2"	11-8"

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

OFFICE USE ONLY	
Issuance Date	
Zoning	A-1, 60

BUILDING PERMIT

Job Address <u>7473 N. BEACH DR</u>	Building Type: Residential - Commercial
Description of Work <u>ADD A JACUZZI TO BACK YARD</u>	
Estimated Cost of Project \$ <u>3,500</u>	

Owner/Occupant	
Name <u>DIANNE TOMASINI</u>	Business Name
Address <u>7473 N. BEACH DR</u>	City/State/Zip
Phone <u>414-334-5504</u>	Email

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name <u>REN RENOVATIONS LLC</u>	Contractor Name <u>RICHARD S. LIEBHART</u>
Address <u>W181 N 8924 MELANIE LN</u>	City/State/Zip <u>MENOMONIE FALLS, WI 53051</u>
Phone <u>262-674-0314</u>	Email <u>richard.liebhart@att.net</u>
Dwelling Contractor # <u>1204485</u> ✓	Dwelling Contractor Qualifier # <u>1204484</u> ✓

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition	Garage

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	<u>\$9.50</u>	
Building Board	<u>\$75.00</u>	<u>75.00</u>
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition \$85.00 minimum plus	\$0.12/sqft	
Moving buildings over public ways \$230.00 plus	\$0.12/sqft	
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Work started without permit Double Fee		
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature**Date**9-17-20

Rev 0619

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

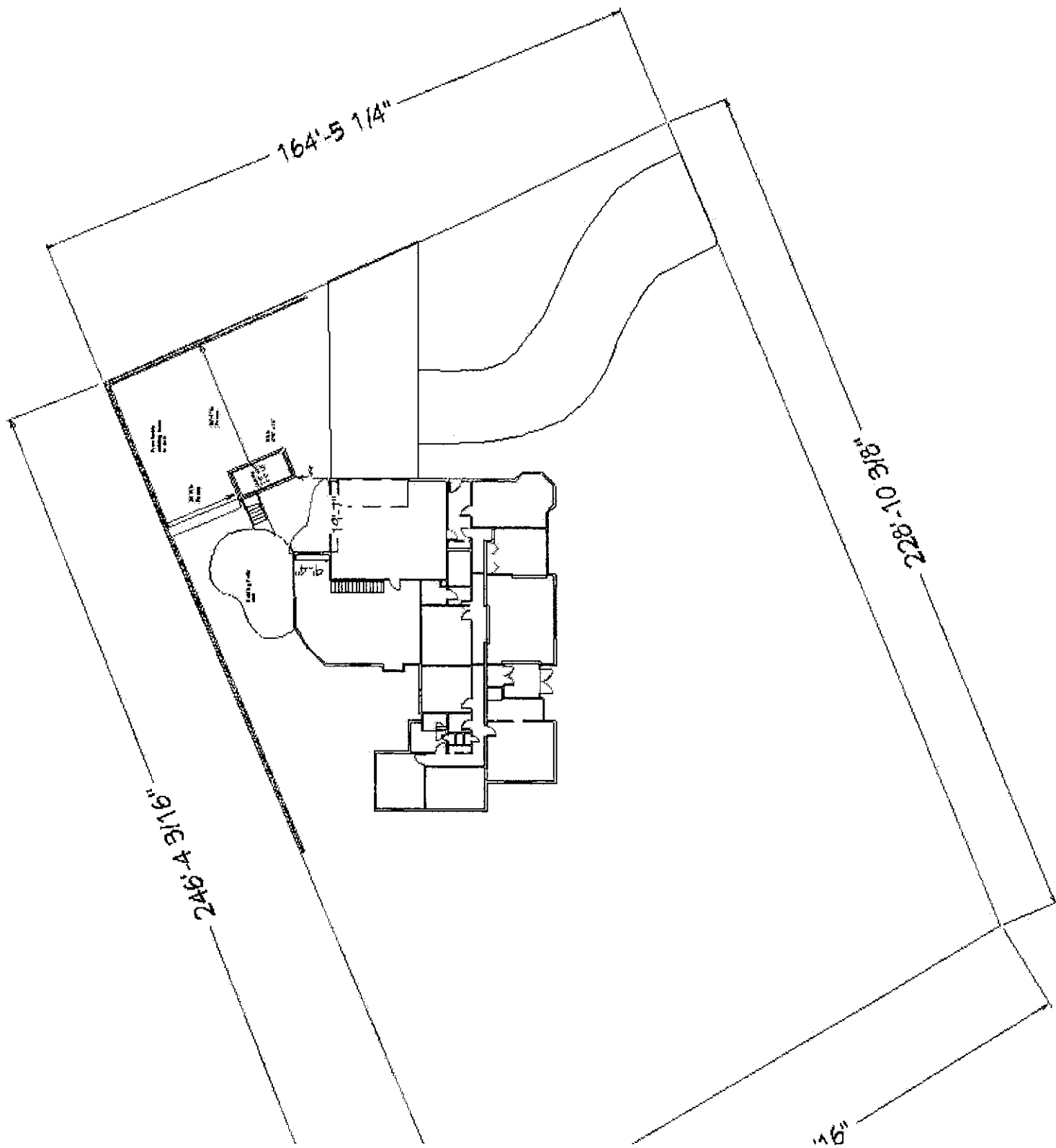
Receipt No: 1.055045

Sep 17, 2020

7475 N Beach

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PLANS - FILING FEE	75.00
24-44440 BUILDING PLANS-FILING FEE	
Total:	75.00
CHECK	75.00
Check No: 1178	
Payor: 7475 N Beach	
Total Applied:	75.00
Change Tendered:	.00

09/17/2020 11:17 AM



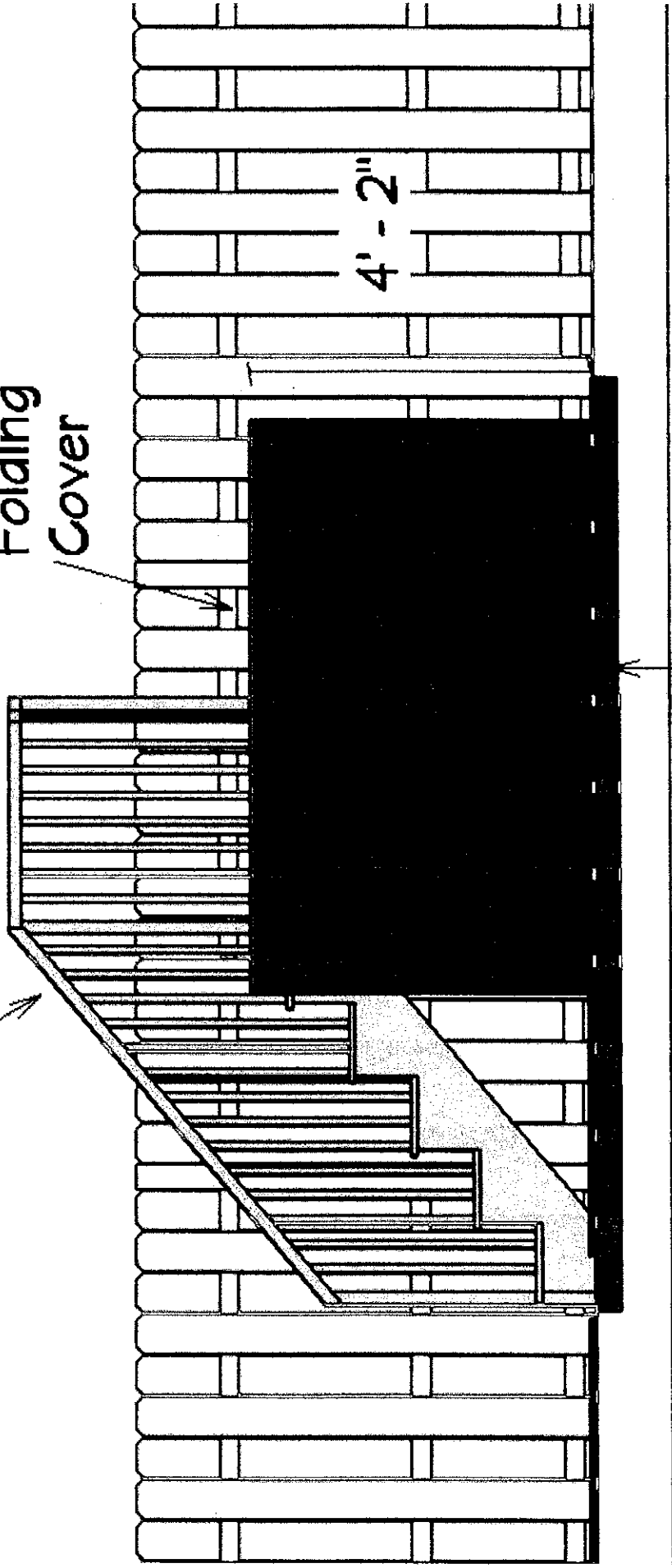


Portable Steps

Lockable
Folding
Cover

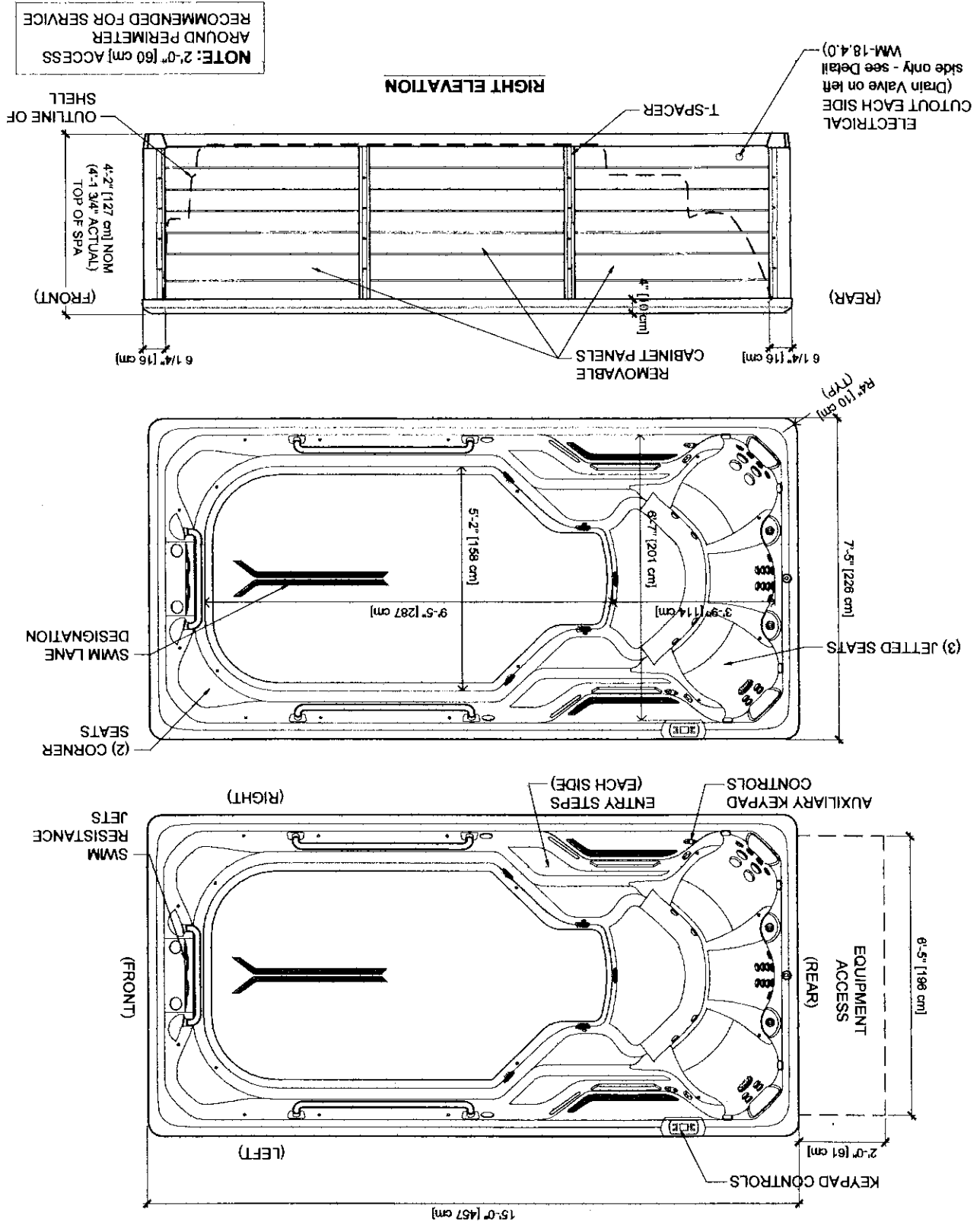
4' - 2"

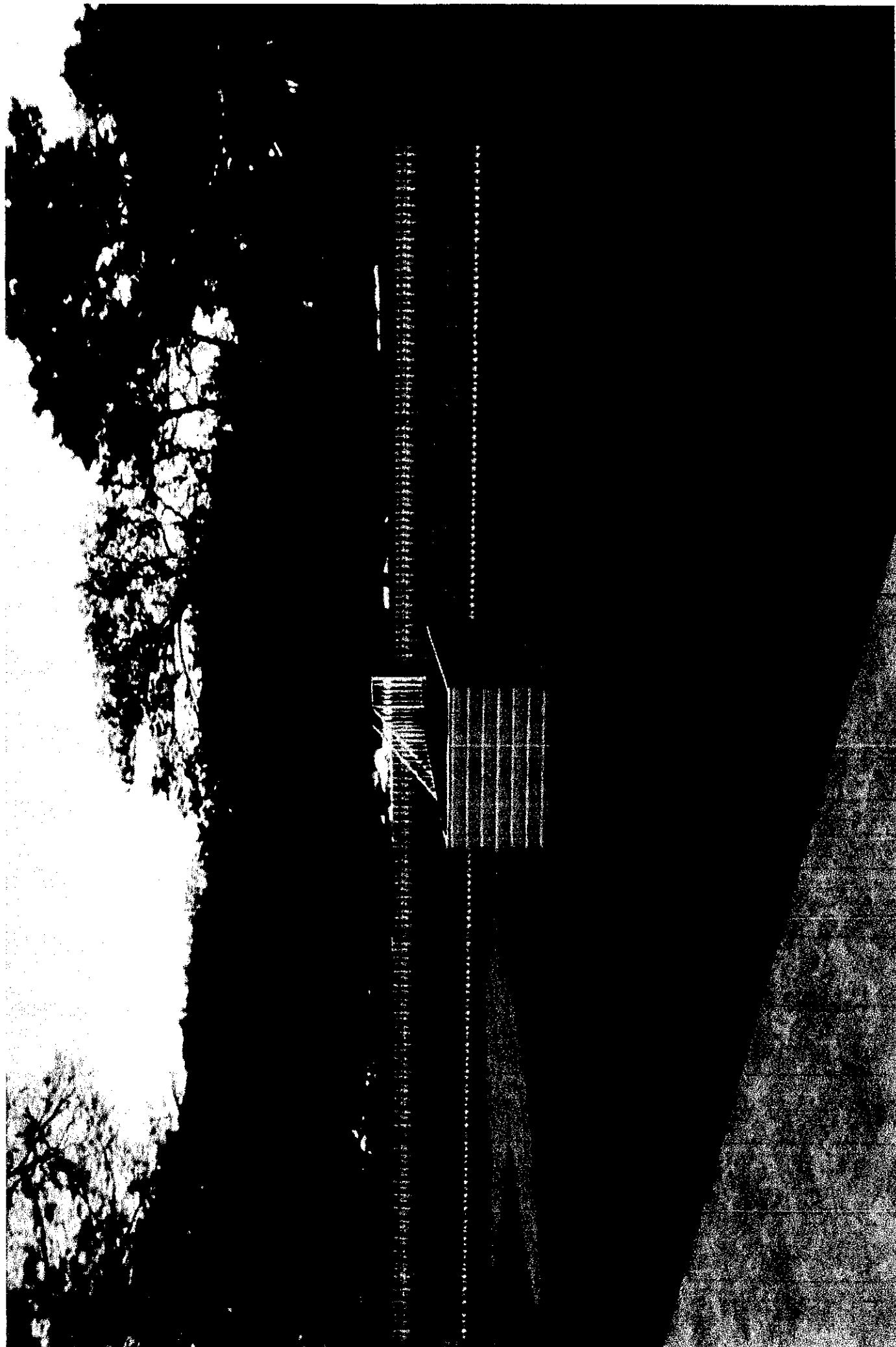
Top slab flush with
existing grade

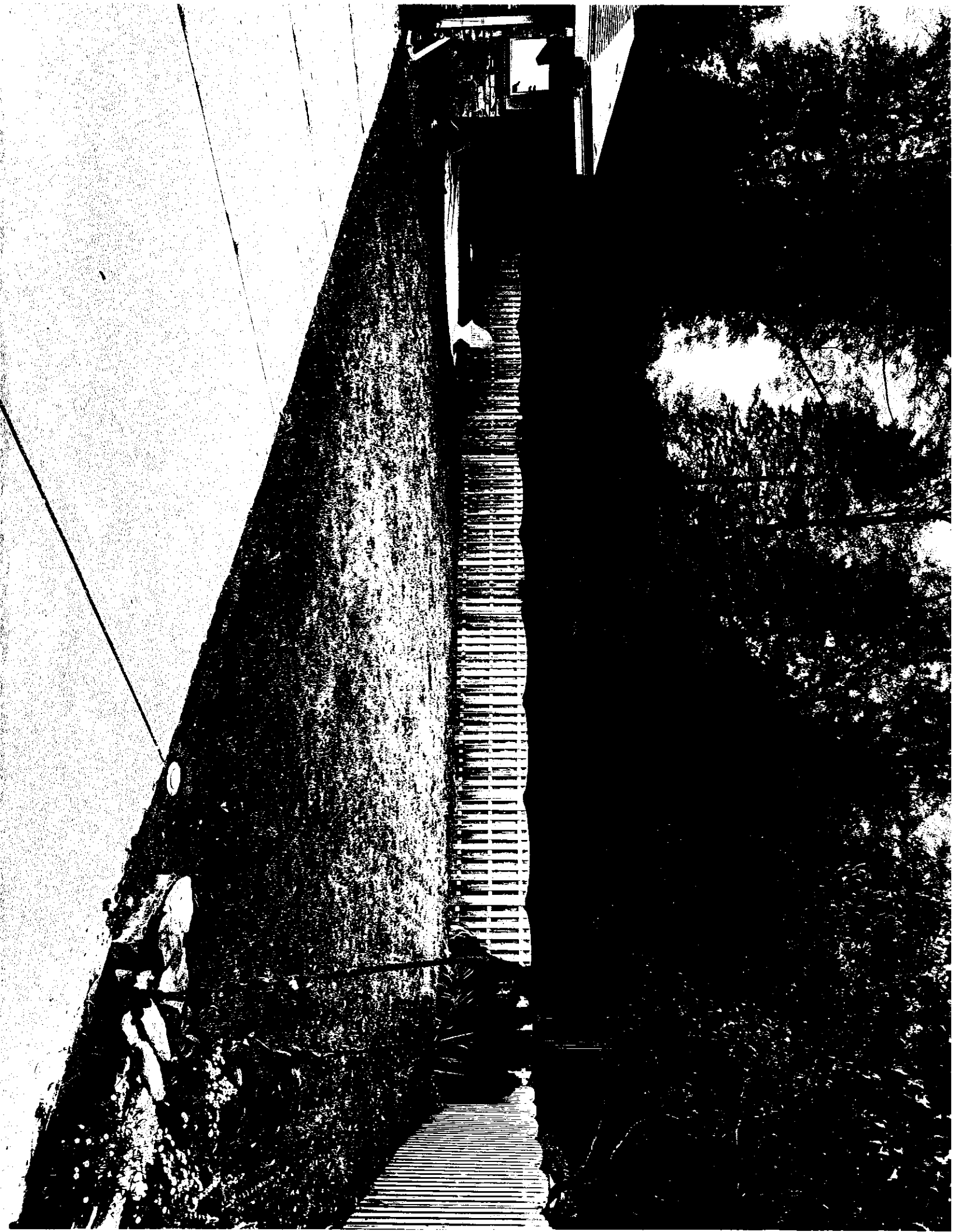


X500
SwimCross™ Exercise System
General Information
AQUATIC FITNESS SYSTEMS DETAILS

DETAIL NUMBER: WM-18.0.3
REV: 2019/01/09









VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number: _____

OFFICE USE ONLY
Issuance Date
Zoning

BUILDING PERMIT

Job Address <u>7950 N Lake Dr</u>	Building Type: Residential Commercial
Description of Work <u>12KW Photovoltaic System</u>	
Estimated Cost of Project \$ <u>35,095</u>	

Owner/Occupant	
Name <u>Tom & Gysela Chelimsky</u>	Business Name
Address <u>7950 N Lake Dr</u>	City/State/Zip
Phone <u>216-255-1677</u>	Email

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name <u>Arch Electric</u>	Contractor Name
Address <u>1237 Pilgrim Rd</u>	City/State/Zip <u>Plymouth, WI 53073</u>
Phone <u>920-838-4245</u>	Email <u>Catherine@archelec.com</u>
Dwelling Contractor #	Dwelling Contractor Qualifier #

M 270617 6130101

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition	Garage

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	334.00
Building Board	\$75.00	75.00
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition	\$85.00 minimum plus	\$0.12/sqft
Moving buildings over public ways	\$230.00 plus	\$0.12/sqft
Fuel tanks - Per 1,000 gallons		\$24.00
Re-inspection		\$100.00
Work started without permit Double Fee		
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature

Catherine Donati

Date

9/14/20

Rev 0619

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6822
www.villageoffoxpoint.com

Permit Number:**OFFICE USE ONLY**

Issuance Date

ELECTRICAL PERMIT

Job Address <u>7950 N Lake Dr</u>	Building Type: Residential - <u>Commercial</u>
Description of Work <u>12 Kw Photovoltaic System</u>	
Owner/Occupant Name <u>Tom + Gisela Chelimsky</u>	

Contractor	
Company Name <u>Arch Electric</u>	Master Electrician Name <u>Ed Zinthefer</u>
Address <u>1237 Pilgrim Rd</u>	City/State/Zip <u>Plymouth WI 53073</u>
Phone <u>920-838-4245</u>	Email <u>Catherine@archelec.com</u>
Master Electrician Number <u>M 270617</u>	Electrical Contractor Number <u>51097745</u>

Description	Rate	Qty	Amount
Devices (fixtures, switches, receptacles, luminaries, etc.)	\$0.75		
Range, disposal, dishwasher, clothes dryer, water heater	\$10.00		
HID luminaire-Arc, mercury, quartz, etc.	\$5.00		
Ventilation fans, paddle fans, dimmers, GFCI devices	\$3.00		
Heating equipment (furnace, boiler)	\$15.00		
Space heating system, base board	\$5.00		
Air conditioner, refrigerating equipment	\$15.00		
Feeders or sub-feeder-sub panel	\$15.00		
Service switch or disconnect switch	\$5.00		
Services 0-100 amp	\$30.00		
101-200 amp	\$45.00		
Each additional 100 amp	\$5.00		
Generator, XFMR, rectifier, capacitor, welder, converter, reactor	\$30.00		
Swimming pools, spa, hot tub	\$60.00		
Motors over 1/4 hp (per hp or fraction thereof)	\$1.00		
Fuel dispensing equipment	\$50.00		
Signs, illuminated	\$35.00		
Strip lighting, plug-in strip, Trol-E-Duct, etc.	\$1.00/ft		
Low voltage devices	\$2.00		
Motion picture, stereopticon and X-ray machines, or similar equip	\$30.00		
Pole mounted fixtures	\$10.00		
Audible or visual devices-signals or communication devices	\$25.00		
Whirlpool tubs	\$10.00		
Fire alarm systems	\$60.00		
Raceways, wireways, busways, gutters	\$1.00/ft		
Temporary service for 90 days	\$60.00		
Work started without permit Double Fee			
Minimum Fee	\$60.00		
Payable to: Village of Fox Point	Total Permit Fee	\$	

Permit shall expire 12 months after the date of issuance, if installation of the electrical wiring has not commenced.

Applicant Signature

Catherine Chelimsky

Date

9/19/20

Rev 0819

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.055113

Oct 1, 2020

7950 N Lake

Previous Balance: .00

LICENSES & PERMITS - BUILDING PERMIT 334.00

24-44460 BUILDING PERMIT

Total: 334.00

CHECK Check No: 22093 334.00

Payor: 7950 N Lake

Total Applied: 334.00

Change Tendered: .00

10/01/2020 1:03 PM

Equipment Location:

Meter outside 10' N of SW corner of the house.
Disconnects will be located adjacent to meter.
Combiner and solar meter will also be next to meter.

Asphalt roof, south east and south west facing
roofs. Stacks and vents need to be avoided.

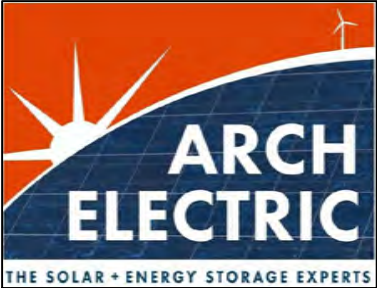
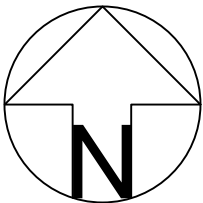
Array #	Array Pitch	True Azim.	Mag. Azim.	PV SqFt
1	30°	180°	183°	213.96



Main service panel in basement.



Plot Plan: Scale - NTS



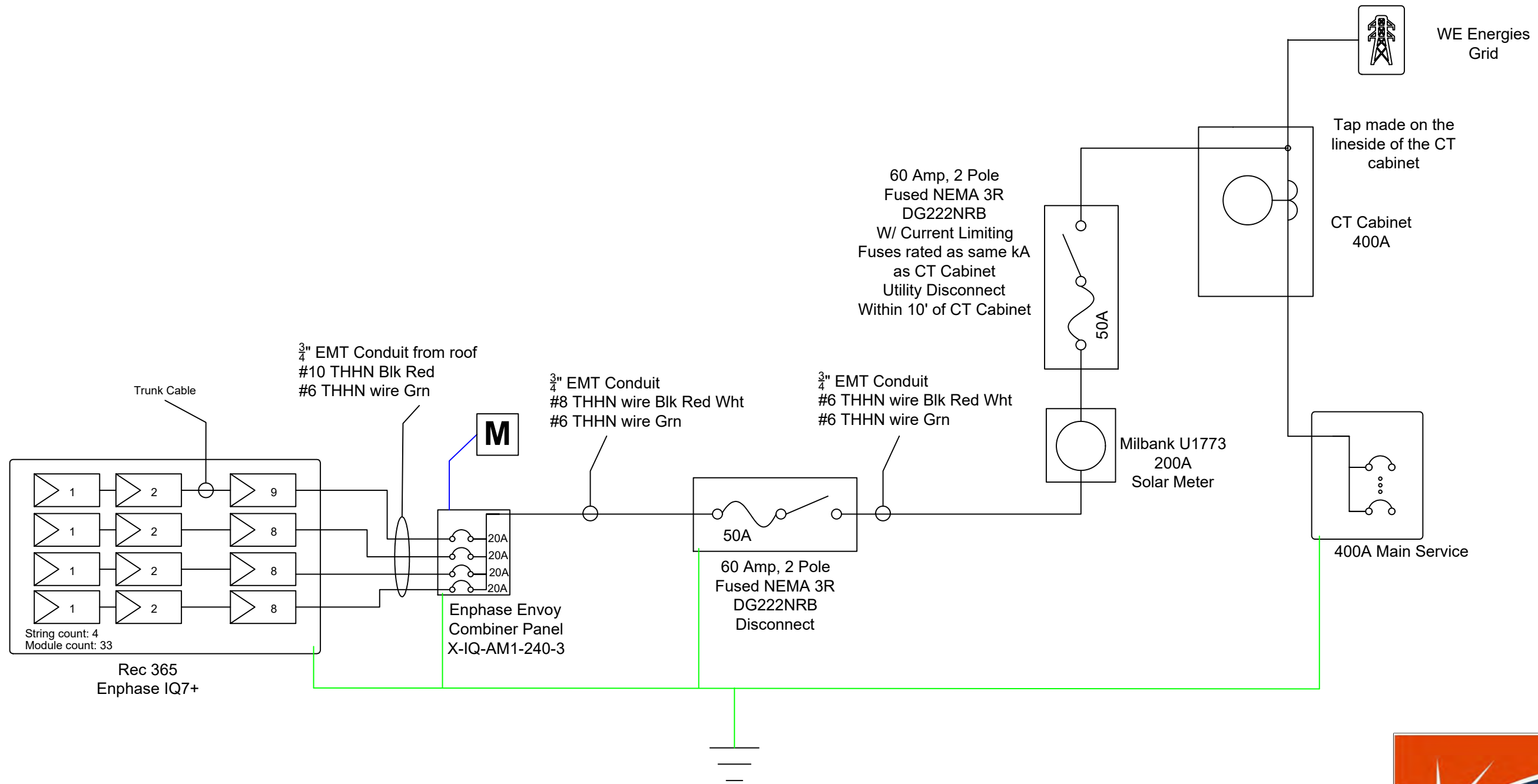
Customer: Tom Chelimsky
Address: 7950 N Lake Dr
City: Fox Point
State: WI
Zip Code: 53217
Contact: Tom Chelimsky
Phone: 216-255-1677
Email: thomas.chelimsky@gmail.com

Project Number: PV 20.087
System Size: 12.045kWdc
Designer: Justin Van Camp
920.838.0487

Plot Plan

Revision: 1 Date: 9.8.20

Page A.2



Module Specifications	
Rec Solar 365AA	
STC Rating	365 W
Vmp	38 V
Imp	9.6 A
Voc	44.3 V
Isc	10.26 A

Array Specifications		
1 String of 9 Modules / 3 Strings of 8 Modules		
Max DC Power Rating	3.285kW	2.92kW
Operating AC Voltage	240 V	240 V
Operating AC Current	10.89 A	9.68 A
Max AC System Voltage	240 V	240 V
AC Short Circuit Current	20 A	20 A

Inverter Specifications	
Enphase 295w IQ7+	
Max AC Power Rating	295W / 9.735kWac Total
Max DC Input Voltage	60 V
Max DC Input Current	15 A
Nominal AC OperatingVoltage	240 V
Max AC Operating Current	1.21A Each / 39.93A Total



THE SOLAR + ENERGY STORAGE EXPERTS

Customer: Tom Chelimsky
Address: 7950 N Lake Dr
City: Fox Point
State: WI
Zip Code: 53217
Contact: Tom Chelimsky
Phone: 216-255-1677
Email: thomas.chelimsky@gmail.com

Project Number: PV 20.087
System Size: 12.045kWdc
Designer: Justin Van Camp
920.838.0487

One Line Diagram

Revision: 1 Date: 9.8.20



September 11, 2020

Arch Electric, Inc.
1237 Pilgrim Road. #201
Plymouth, WI 53073

RE: Structural Roof Evaluation for the *Chelimsky Residence: 7950 North Lake Drive, Fox Point, Wisconsin*

As per your request, we have evaluated the roof structure under the proposed solar panel array. The information used to evaluate this structure was gathered during a field visit by Arch Electric INC on behalf of Right Angle Engineering. A total of 33 solar panels will be added to the structure. The roof structure consists of 2x4 trusses spaced at 24" on center, 2x6 rafters spaced at 16" on center, and 2x10 rafters spaced at 16" on center. The roof consists of asphalt shingles. The existing roof framing was evaluated using RISA analysis software. The following loads were used in the analysis of the roof framing:

Dead Load	12.0 psf
Roof Snow Load	30.0 psf
Solar Load	3.0 psf

Based on our analysis we have determined that the existing roof framing will adequately support the additional loads imposed by the solar panels. A total of 66 roof attachments should be staggered such that the mounting hardware may be attached to each truss at 24" O.C. The racking system should be installed per the manufacture's specifications. The attachments consist of a 5/16" or 18/8 SS lag screw with 2" minimum penetration centered on each truss top chord. Waterproofing around the roof penetrations is the responsibility of others. Right Angle Engineering assumes no responsibility for improper instillation of the solar panels.

Regards,

Robert D Smythe, P.E.
Right Angle Engineering

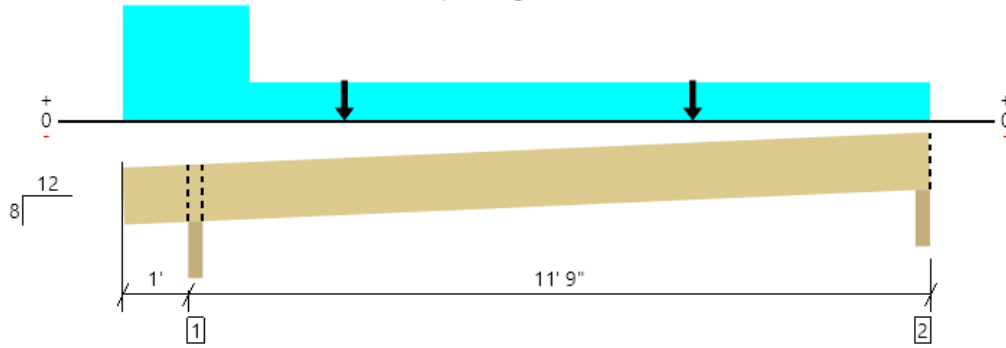


9/11/20

Level, Roof: Joist

1 piece(s) 2 x 6 Douglas Fir-Larch No. 1 @ 16" OC

Sloped Length: 15' 3 7/8"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Member Length : 15' 7 9/16"

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	379 @ 1' 1 3/4"	2682 (3.50")	Passed (14%)	--	1.0 D + 0.525 E + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	329 @ 1' 8 1/16"	1584	Passed (21%)	1.60	1.0 D + 0.7 E (All Spans)
Moment (Ft-lbs)	934 @ 7' 8 3/8"	1507	Passed (62%)	1.60	1.0 D + 0.7 E (All Spans)
Live Load Defl. (in)	0.185 @ 0	0.200	Passed (2L/178)	--	0.6 D - 0.7 E (All Spans)
Total Load Defl. (in)	0.923 @ 6' 10 7/16"	0.913	Passed (L/178)	--	1.0 D + 0.7 E (All Spans)

System : Roof
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD
Member Pitch : 8/12

- Deflection criteria: LL (L/240) and TL (L/180).
- Overhang deflection criteria: LL (2L/0.2") and TL (2L/180). Upward deflection on left cantilever exceeds overhang deflection criteria.
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Snow	Seismic	Total	
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	166	81	290/-290	537/-290	Blocking
2 - Beveled Plate - SPF	3.50"	3.50"	1.50"	141	-2	236/-236	377/-238	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	8' 7" o/c	
Bottom Edge (Lu)	15' 4" o/c	

- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Spacing	Dead (0.90)	Snow (1.15)	Seismic (1.60)	Comments
1 - Uniform (PSF)	0 to 12' 9"	16"	15.0	-	-	Default Load
2 - Uniform (PSF)	0 to 2'	16"	-	30.0	-	
3 - Point (lb)	3' 6"	N/A	-	-	263	
4 - Point (lb)	9'	N/A	-	-	263	

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

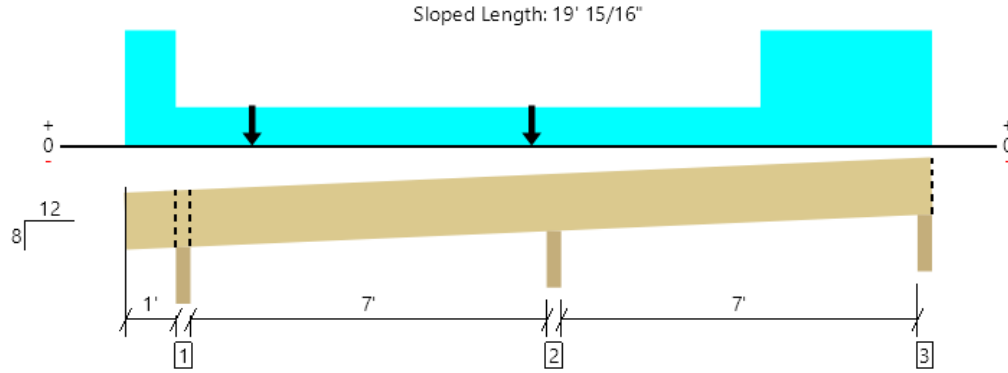
ForteWEB Software Operator	Job Notes
Dakota Smythe Right Angle Engineering (925) 316-8341 solar@rightangleeng.com	



9/11/2020 6:53:01 PM UTC
ForteWEB v3.0, Engine: V8.1.3.1, Data: V8.0.0.0

File Name: Tom Chelimsky

Level, Roof: Joist
1 piece(s) 2 x 4 Douglas Fir-Larch No. 2 @ 24" OC



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Member Length : 19' 3 5/16"

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	556 @ 8' 5 1/4"	2682 (3.50")	Passed (21%)	--	1.0 D + 0.7 E (All Spans)
Shear (lbs)	367 @ 8' 9/16"	1008	Passed (36%)	1.60	1.0 D + 0.7 E (All Spans)
Moment (Ft-lbs)	296 @ 13' 2 3/16"	456	Passed (65%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.151 @ 0	0.200	Passed (2L/220)	--	1.0 D - 0.525 E + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.374 @ 12' 5 5/16"	0.579	Passed (L/279)	--	1.0 D - 0.525 E + 0.75 L + 0.75 S (All Spans)

- Deflection criteria: LL (L/240) and TL (L/180).
- Overhang deflection criteria: LL (2L/0.2") and TL (2L/180). Upward deflection on left cantilever exceeds overhang deflection criteria.
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.

System : Roof
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD
Member Pitch : 8/12

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Snow	Seismic	Total	
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	144	62	211/-211	417/-211	Blocking
2 - Beveled Plate - SPF	3.50"	3.50"	1.50"	322	56	334/-334	712/-334	None
3 - Beveled Plate - SPF	3.50"	3.50"	1.50"	106	153	19/-19	278/-19	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	15' 11" o/c	
Bottom Edge (Lu)	13' 10" o/c	

- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Spacing	Dead (0.90)	Snow (1.15)	Seismic (1.60)	Comments
1 - Uniform (PSF)	0 to 15' 10 1/2"	24"	15.0	-	-	Default Load
2 - Uniform (PSF)	0 to 1'	24"	-	30.0	-	
3 - Point (lb)	2' 6"	N/A	-	-	263	
4 - Point (lb)	8'	N/A	-	-	263	
5 - Uniform (PSF)	12' 6" to 15' 10 1/2"	24"	-	30.0	-	

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
Dakota Smythe Right Angle Engineering (925) 316-8341 solar@rightangleeng.com	



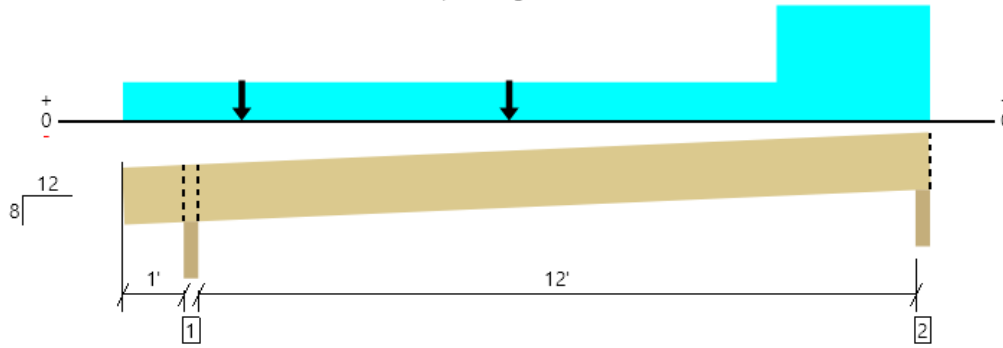
9/11/2020 6:59:05 PM UTC
ForteWEB v3.0, Engine: V8.1.3.1, Data: V8.0.0.0

File Name: Tom Chelimsky

Level, Roof: Joist

1 piece(s) 2 x 10 Douglas Fir-Larch No. 2 @ 16" OC

Sloped Length: 16' 3 7/8"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Member Length : 16' 10 1/16"

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	451 @ 1' 1 3/4"	2682 (3.50")	Passed (17%)	--	1.0 D + 0.7 E (All Spans)
Shear (lbs)	404 @ 1' 11 3/16"	2664	Passed (15%)	1.60	1.0 D + 0.7 E (All Spans)
Moment (Ft-lbs)	1076 @ 6' 6"	3247	Passed (33%)	1.60	1.0 D + 0.7 E (All Spans)
Live Load Defl. (in)	0.042 @ 0	0.200	Passed (2L/782)	--	0.6 D - 0.7 E (All Spans)
Total Load Defl. (in)	0.240 @ 7' 1 1/16"	0.980	Passed (L/736)	--	1.0 D + 0.7 E (All Spans)

- Deflection criteria: LL (L/240) and TL (L/180).
- Overhang deflection criteria: LL (2L/0.2") and TL (2L/180).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.

System : Roof
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD
Member Pitch : 8/12

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Snow	Seismic	Total	
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	176	9	392/-392	577/-392	Blocking
2 - Beveled Plate - SPF	3.50"	3.50"	1.50"	151	94	134/-134	379/-134	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	12' 5" o/c	
Bottom Edge (Lu)	16' 4" o/c	

- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Spacing	Dead (0.90)	Snow (1.15)	Seismic (1.60)	Comments
1 - Uniform (PSF)	0 to 13' 7"	16"	15.0	-	-	Default Load
2 - Uniform (PSF)	11' to 13' 7"	16"	-	30.0	-	
3 - Point (lb)	2'	N/A	-	-	263	
4 - Point (lb)	6' 6"	N/A	-	-	263	

Weyerhaeuser Notes

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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
Dakota Smythe Right Angle Engineering (925) 316-8341 solar@rightangleeng.com	



9/11/2020 6:56:39 PM UTC
ForteWEB v3.0, Engine: V8.1.3.1, Data: V8.0.0.0

File Name: Tom Chelimsky

Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** dramatically simplify the installation process while achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Microinverters integrate seamlessly with the Enphase IQ Envoy™, Enphase Q Aggregator™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)

* The IQ 7+ Micro is required to support 72-cell modules.



Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)	IQ7-60-2-US		IQ7PLUS-72-2-US	
Commonly used module pairings ¹	235 W - 350 W +		235 W - 440 W +	
Module compatibility	60-cell PV modules only		60-cell and 72-cell PV modules	
Maximum input DC voltage	48 V		60 V	
Peak power tracking voltage	27 V - 37 V		27 V - 45 V	
Operating range	16 V - 48 V		16 V - 60 V	
Min/Max start voltage	22 V / 48 V		22 V / 60 V	
Max DC short circuit current (module Isc)	15 A		15 A	
Overvoltage class DC port	II		II	
DC port backfeed current	0 A		0 A	
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit			
OUTPUT DATA (AC)	IQ 7 Microinverter		IQ 7+ Microinverter	
Peak output power	250 VA		295 VA	
Maximum continuous output power	240 VA		290 VA	
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A	1.15 A	1.21 A	1.39 A
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20 A (L-L) branch circuit ³	16 (240 VAC) 13 (208 VAC)		13 (240 VAC) 11 (208 VAC)	
Overvoltage class AC port	III		III	
AC port backfeed current	0 A		0 A	
Power factor setting	1.0		1.0	
Power factor (adjustable)	0.7 leading ... 0.7 lagging		0.7 leading ... 0.7 lagging	
EFFICIENCY	@240 V	@208 V	@240 V	@208 V
Peak CEC efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA	IQ 7 Microinverter			
Ambient temperature range	-40°C to +65°C			
Relative humidity range	4% to 100% (condensing)			
Connector type	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)			
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 lbs)			
Cooling	Natural convection - No fans			
Approved for wet locations	Yes			
Pollution degree	PD3			
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor			
FEATURES				
Communication	Power Line Communication (PLC)			
Monitoring	Enlighten Manager and MyEnlighten monitoring options. Both options require installation of an Enphase IQ Envoy.			
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer’s instructions.			

1. No enforced DC/AC ratio. See the compatibility calculator at <https://enphase.com/en-us/support/module-compatibility>.

2. Nominal voltage range can be extended beyond nominal if required by the utility.

3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

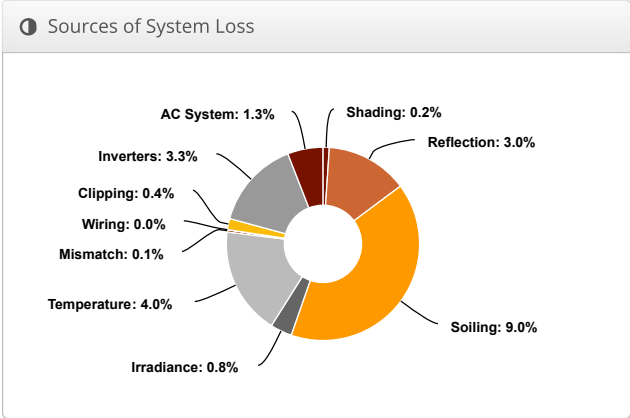
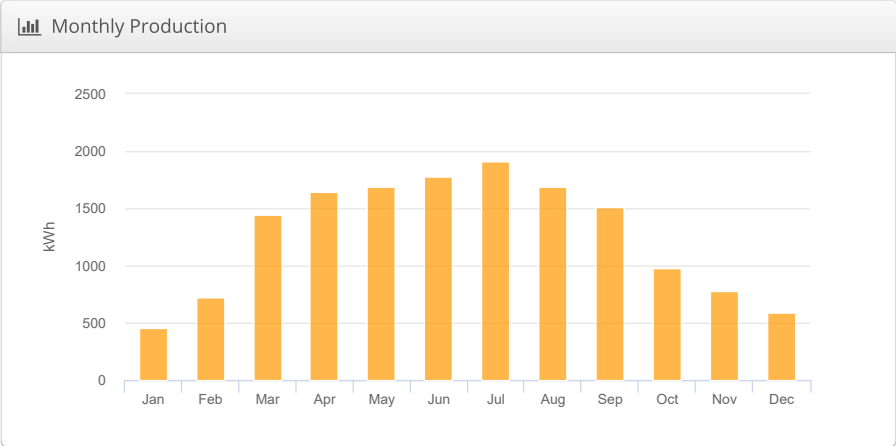
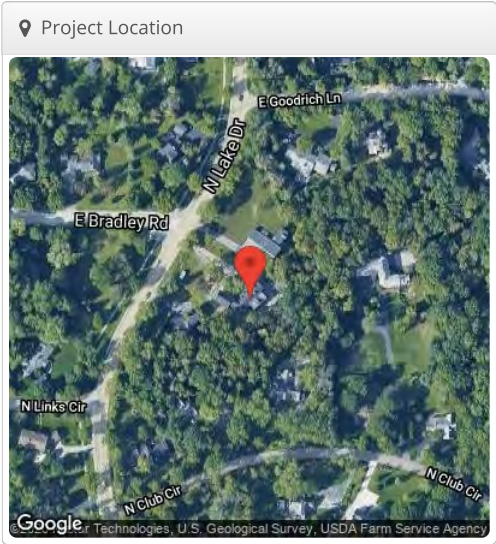
To learn more about Enphase offerings, visit enphase.com



Design 1 (copy) Gisela Chelimsky, 7950 N Lake Dr. Fox Point Wi 53217

Report	
Project Name	Gisela Chelimsky
Project Address	7950 N Lake Dr. Fox Point Wi 53217
Prepared By	Justin Van Camp justin@archelec.com

System Metrics	
Design	Design 1 (copy)
Module DC Nameplate	12.0 kW
Inverter AC Nameplate	9.74 kW Load Ratio: 1.24
Annual Production	15.18 MWh
Performance Ratio	79.6%
kWh/kWp	1,260.0
Weather Dataset	TMY, 10km grid (43.15,-87.85), NREL (prospector)
Simulator Version	d1de3e6c3d-b69b4b654f-80ebaab94f-004220bb64



Annual Production			
	Description	Output	% Delta
Irradiance (kWh/m ²)	Annual Global Horizontal Irradiance	1,402.9	
	POA Irradiance	1,582.6	12.8%
	Shaded Irradiance	1,578.9	-0.2%
	Irradiance after Reflection	1,530.9	-3.0%
	Irradiance after Soiling	1,393.6	-9.0%
	Total Collector Irradiance	1,393.6	0.0%
Energy (kWh)	Nameplate	16,778.5	
	Output at Irradiance Levels	16,643.7	-0.8%
	Output at Cell Temperature Derate	15,980.0	-4.0%
	Output After Mismatch	15,966.6	-0.1%
	Optimal DC Output	15,966.6	0.0%
	Constrained DC Output	15,900.7	-0.4%
	Inverter Output	15,378.0	-3.2%
	Energy to Grid	15,176.7	-1.3%
Temperature Metrics			
	Avg. Operating Ambient Temp		10.4 °C
	Avg. Operating Cell Temp		24.3 °C
Simulation Metrics			
	Operating Hours		4698
	Solved Hours		4698

☁ Condition Set													
Description	Condition Set 1												
Weather Dataset	TMY, 10km grid (43.15,-87.85), NREL (prospector)												
Solar Angle Location	Meteo Lat/Lng												
Transposition Model	Perez Model												
Temperature Model	Sandia Model												
Temperature Model Parameters	Rack Type	a		b		Temperature Delta							
	Fixed Tilt	-3.56		-0.075		3°C							
	Flush Mount	-2.81		-0.0455		0°C							
Soiling (%)	J	F	M	A	M	J	J	A	S	O	N	D	
	45	30	7	5	5	5	2	2	5	5	10	25	
Irradiation Variance	5%												
Cell Temperature Spread	4° C												
Module Binning Range	-2.5% to 2.5%												
AC System Derate	0.50%												
Module Characterizations	Module				Uploaded By		Characterization						
	REC365AA (2019) (REC Solar)				Folsom Labs		Spec Sheet Characterization, PAN						
Component Characterizations	Device				Uploaded By		Characterization						
	IQ7PLUS-72-x-240 (Enphase)				Folsom Labs		Default Characterization						

📦 Components		
Component	Name	Count
Inverters	IQ7PLUS-72-x-240 (Enphase)	33 (9.74 kW)
AC Branches	8 AWG (Copper)	2 (395.4 ft)
Module	REC Solar, REC365AA (2019) (365W)	33 (12.0 kW)

🔌 Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	12	1-1	Along Racking

🏠 Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 2	Flush Mount	Portrait (Vertical)	30°	210.634°	0.0 ft	1x1	17	17	6.21 kW
Field Segment 3	Flush Mount	Portrait (Vertical)	30°	221.129°	0.0 ft	1x1	8	8	2.92 kW
Field Segment 3	Flush Mount	Portrait (Vertical)	30°	137.974°	0.0 ft	1x1	8	8	2.92 kW

Detailed Layout



The Strongest Attachment in Solar

IronRidge FlashFoot2 raises the bar in solar roof protection. The unique water seal design is both elevated and encapsulated, delivering redundant layers of protection against water intrusion. In addition, the twist-on Cap perfectly aligns the rail attachment with the lag bolt to maximize mechanical strength.

Twist-On Cap

FlashFoot2's unique Cap design encapsulates the lag bolt and locks into place with a simple twist. The Cap helps FlashFoot2 deliver superior structural strength, by aligning the rail and lag bolt in a concentric load path.

Three-Tier Water Seal

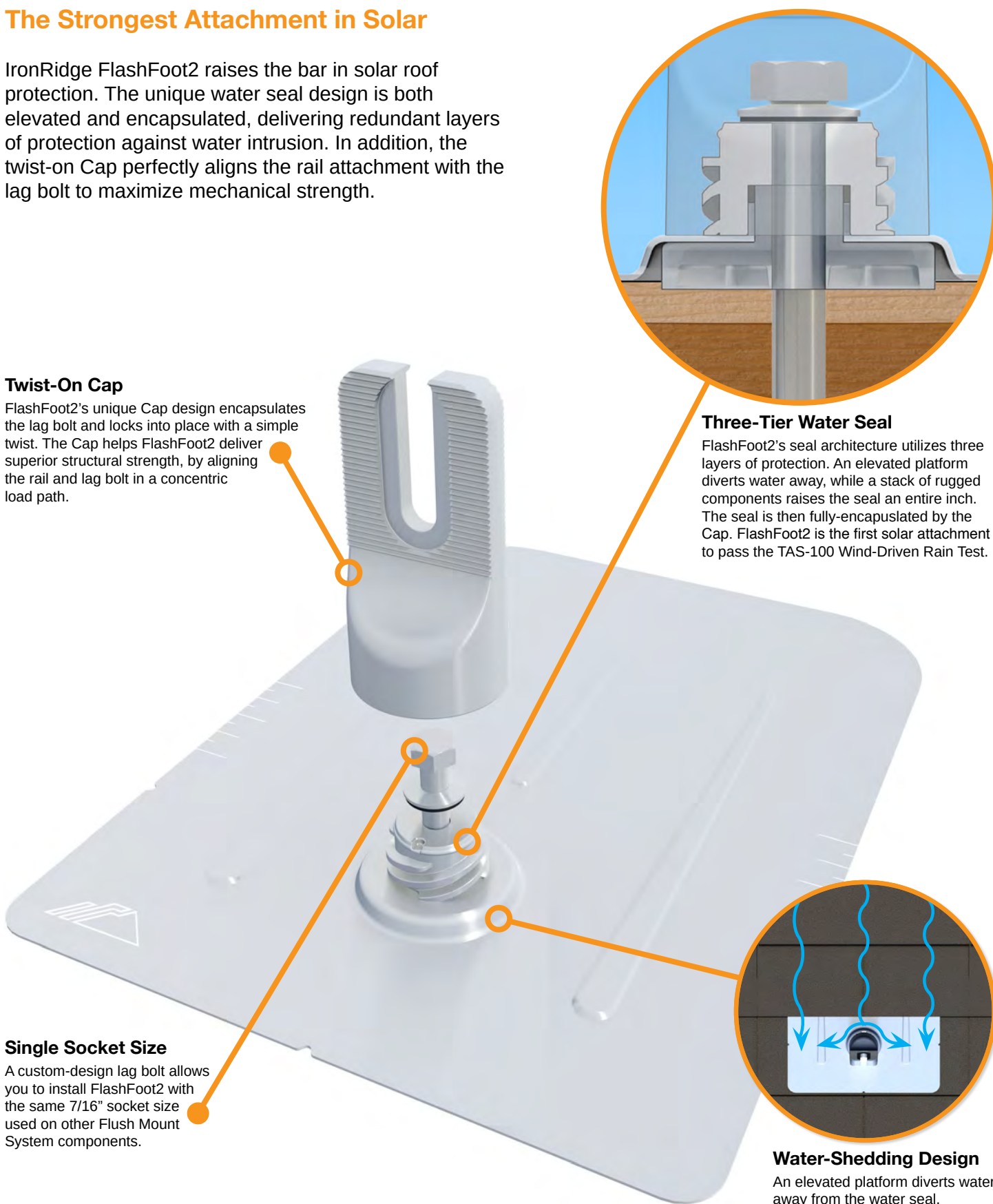
FlashFoot2's seal architecture utilizes three layers of protection. An elevated platform diverts water away, while a stack of rugged components raises the seal an entire inch. The seal is then fully-encapsulated by the Cap. FlashFoot2 is the first solar attachment to pass the TAS-100 Wind-Driven Rain Test.

Single Socket Size

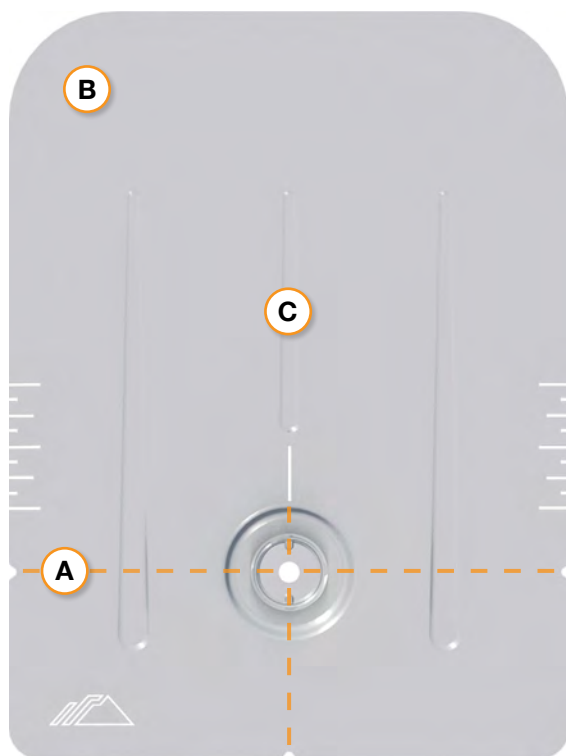
A custom-design lag bolt allows you to install FlashFoot2 with the same 7/16" socket size used on other Flush Mount System components.

Water-Shedding Design

An elevated platform diverts water away from the water seal.



Installation Features



A Alignment Markers

Quickly align the flashing with chalk lines to find pilot holes.

B Rounded Corners

Makes it easier to handle and insert under the roof shingles.

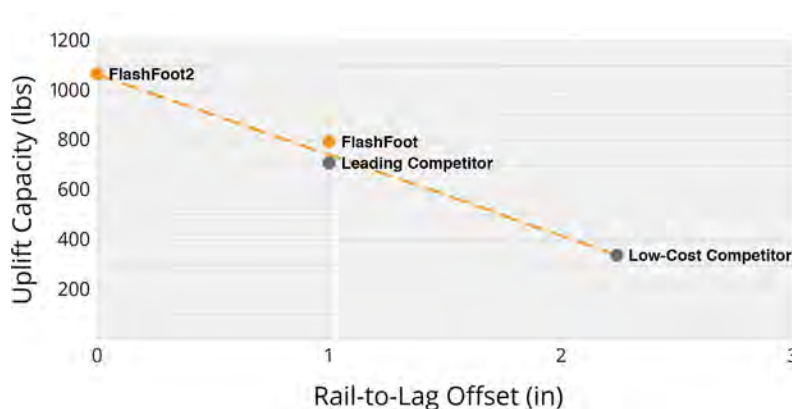
C Reinforcement Ribs

Help to stiffen the flashing and prevent any bending or crinkling during installation.

Benefits of Concentric Loading

Traditional solar attachments have a horizontal offset between the rail and lag bolt, which introduces leverage on the lag bolt and decreases uplift capacity.

FlashFoot2 is the only product to align the rail and lag bolt. This concentric loading design results in a stronger attachment for the system.



Testing & Certification

Structural Certification

Designed and Certified for Compliance with the International Building Code & ASCE/SEI-7.

Water Seal Ratings

Water Sealing Tested to UL 441 Section 27 "Rain Test" and TAS 100-95 "Wind Driven Rain Test" by Intertek. Ratings applicable for composition shingle roofs having slopes between 2:12 and 12:12.

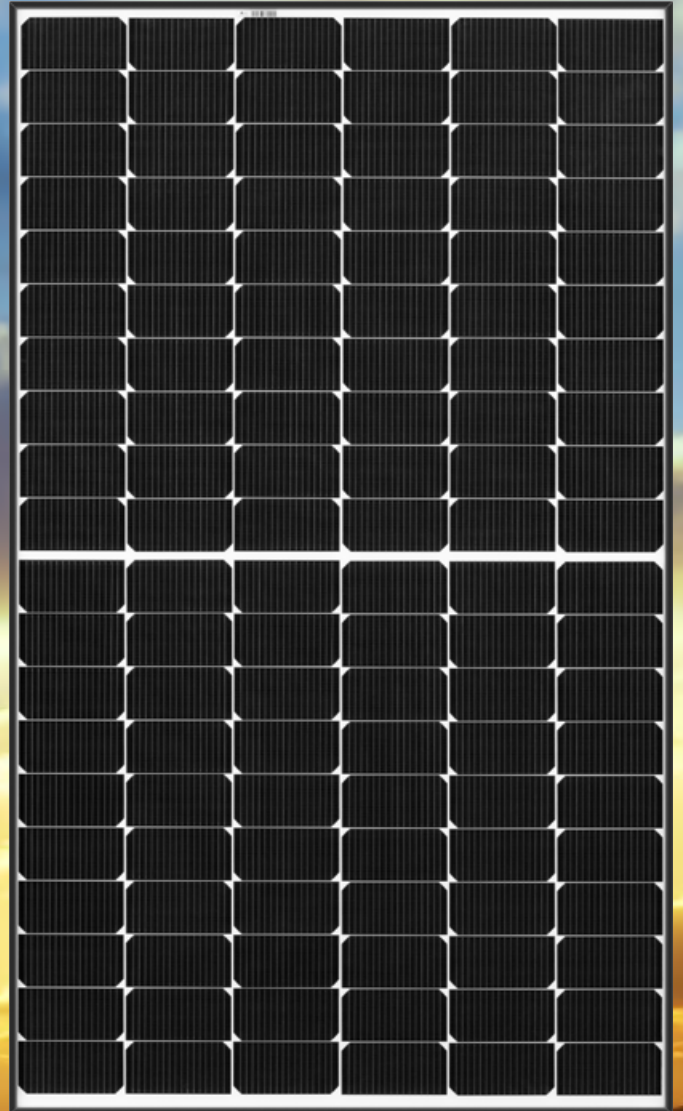
UL 2703

Conforms to UL 2703 Mechanical and Bonding Requirements. See Flush Mount Install Manual for full ratings.

SOLAR'S MOST TRUSTED



REC ALPHA SERIES



380 W_P POWER

20 YEAR PRODUCT WARRANTY

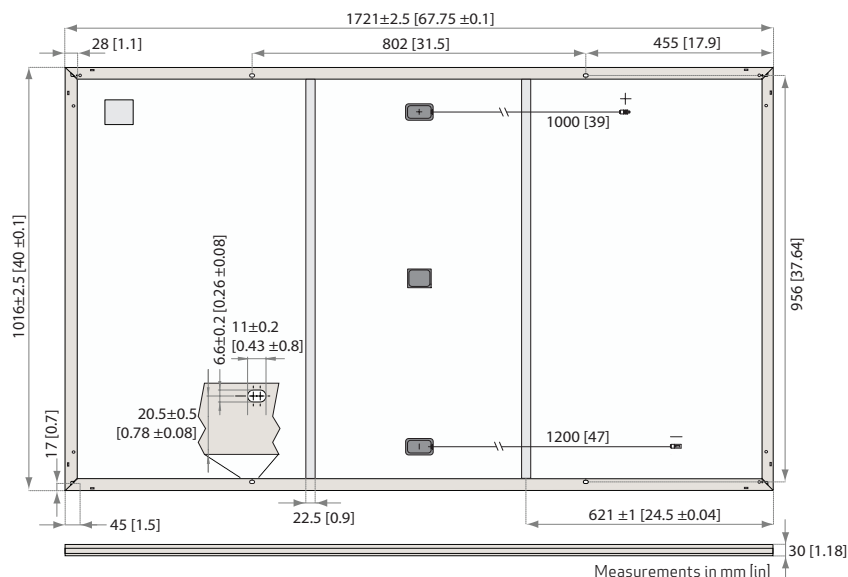
25 YEAR POWER OUTPUT WARRANTY



recgroup.com/alpha

REC ALPHA SERIES

PRODUCT DATASHEET



GENERAL DATA

Cell type:	120 half-cut cells with REC heterojunction cell technology 6 strings of 20 cells in series	Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790
Glass:	0.13 in (3.2 mm) solar glass with anti-reflection surface treatment	Cable:	12 AWG (4 mm ²) PV wire, 39 + 47 in (1 + 1.2 m) in accordance with EN 50618
Backsheet:	Highly resistant polymeric construction	Connectors:	Stäubli MC4 PV-KBT4/KST4, 12 AWG (4 mm ²) in accordance with IEC 62852 IP68 only when connected
Frame:	Anodized aluminum (black)	Origin:	Made in Singapore

ELECTRICAL DATA @ STC

Product Code*: RECxxxAA

Nominal Power - P _{MPP} (Wp)	360	365	370	375	380
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - V _{MPP} (V)	37.7	38.0	38.3	38.7	39.0
Nominal Power Current - I _{MPP} (A)	9.55	9.60	9.66	9.72	9.76
Open Circuit Voltage - V _{OC} (V)	44.1	44.3	44.5	44.6	44.7
Short Circuit Current - I _{SC} (A)	10.23	10.26	10.30	10.40	10.46
Panel Efficiency (%)	20.6	20.9	21.2	21.4	21.7

Values at standard test conditions (STC: air mass AM1.5, irradiance 10.75 W/sq ft (1000 W/m²), temperature 77°F (25°C), based on a production spread with a tolerance of V_{OC} & I_{SC} ±3% within one watt class. * Where xxx indicates the nominal power class (P_{MPP}) at STC above.

ELECTRICAL DATA @ NMOT

Product Code*: RECxxxAA

Nominal Power - P _{MPP} (Wp)	274	278	282	286	290
Nominal Power Voltage - V _{MPP} (V)	35.5	35.8	36.1	36.4	36.7
Nominal Power Current - I _{MPP} (A)	7.71	7.76	7.80	7.85	7.88
Open Circuit Voltage - V _{OC} (V)	41.6	41.7	41.9	42.0	42.1
Short Circuit Current - I _{SC} (A)	8.26	8.29	8.32	8.40	8.45

Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s). * Where xxx indicates the nominal power class (P_{MPP}) at STC above.

CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 1703, UL 61730

IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
UL 1703	Fire Type Class 2
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
AS4040.2 NCC 2016	Cyclic Wind Load

ISO 14001:2004, ISO 9001:2015, OHSAS 18001:2007



WARRANTY

20 year product warranty
25 year linear power output warranty
Maximum annual power degradation of 0.25% p.a.
Guarantees 92% of power after 25 years
See warranty conditions for further details.

MECHANICAL DATA

Dimensions:	67.8 x 40 x 1.2 in (1721 x 1016 x 30 mm)
Area:	18.8 sq ft (1.75 m ²)
Weight:	43 lbs (19.5 kg)

MAXIMUM RATINGS

Operational temperature:	-40 ... +85°C
Maximum system voltage:	1000 V
Design load (+): snow	4666 Pa (97.5 lbs/sq ft)*
Maximum test load (+):	7000 Pa (146 lbs/sq ft)*
Design load (-): wind	2666 Pa (55.6 lbs/sq ft)*
Maximum test load (-):	4000 Pa (83.5 lbs/sq ft)*
Max series fuse rating:	25 A
Max reverse current:	25 A

* Calculated using a safety factor of 1.5

* See installation manual for mounting instructions

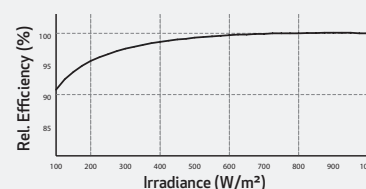
TEMPERATURE RATINGS*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P _{MPP} :	-0.26 %/°C
Temperature coefficient of V _{OC} :	-0.24 %/°C
Temperature coefficient of I _{SC} :	0.04 %/°C

*The temperature coefficients stated are linear values

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC's renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs around 2,000 people worldwide, producing 1.5 GW of solar panels annually.



Roof Mount System

2015 Edition v1.73

This **Engineering Design Guide** was created to help our engineering partners more easily design and specify PV roof mount applications using IronRidge components. In addition to this document, IronRidge provides a complete system of technical support including installation guides, pre-stamped certification letters for most PV-friendly states, our online Design Assistant software, and live, knowledgeable person-to-person customer service.

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Introduction

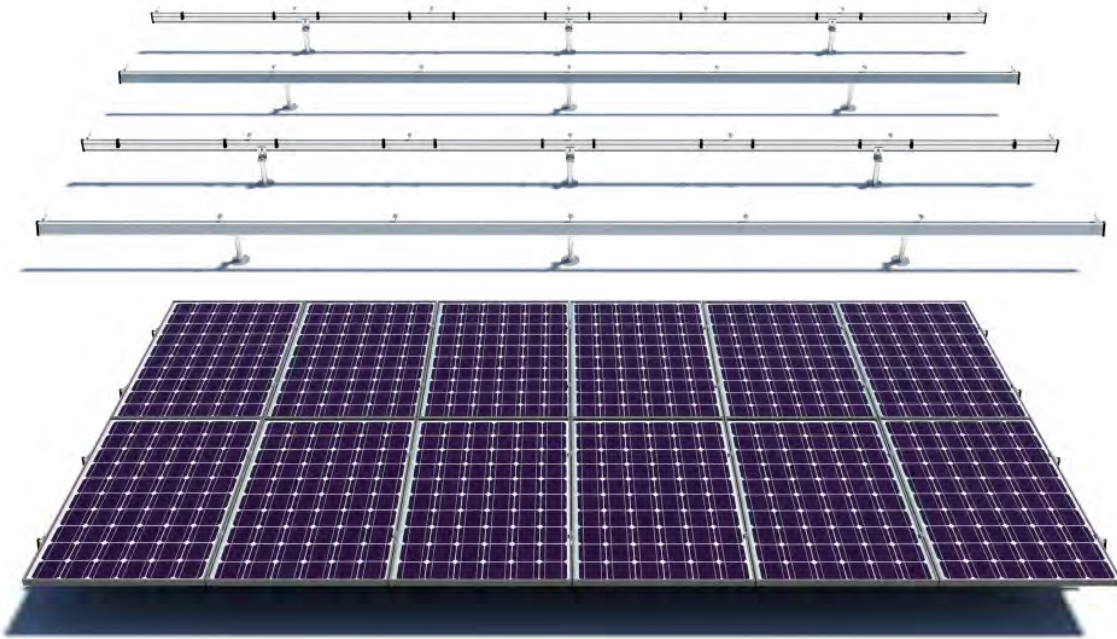
IronRidge provides a comprehensive platform for designing a wide variety of photovoltaic systems for roof mounting applications. Due to its modular architecture, it can handle nearly all commercially available PV modules and layout designs. The IronRidge Roof Mount provides an all-in-one mounting solution, with the roof attachment FlashFoot, XR rails, and integrated grounding. IronRidge products are engineered to last in the most extreme weather conditions and have been installed in every continent in the world.

Technical Specifications

Below is a brief summary of the technical specifications of the IronRidge Roof Mount platform. More detail will be provided in the following pages. If there is additional information you require that is not listed in this Engineering Design Guide, please do not hesitate to contact us at support@ironridge.com.

Allowable Roof Slope	0 to 45 Degrees	Warranty	20 Year
Span Lengths	Up to 12'	Tilt Legs	Yes (10" to 40")
Rail Lengths	Standard & Custom	Adjustable Tilt Legs	Up to 45 Degrees
Rail Finish	Clear, Black (Only XR10 & XR100)	Adjustable L Feet	1-1/8" vertical adjustability
Building Height	Certified to 60'	Splices	Patent-pending internal
Max Wind Speed	170 Mph (for 7-10)	Stand-offs	Yes (4", 7")
Module Orientation	Landscape & Portrait	Tilt Stand-offs	Yes (3.75", 6", 9")
Wind Exposure	Category B, C & D	Flashing	FlashFoot (All-in-One Attachment)
Cantilever	40% of Maximum Span	T-bolts	Multiple Sizes
Max Ground Snow Load	90 psf	Wire Clips	Black Polycarbonate
Component Materials	Aluminum and Stainless Steel	End Caps	Black Polycarbonate
Hardware	Stainless Steel Fasteners	Engineering Support	Yes (P.E. Certified)

Assembled Views



Flush Mounted



Tilt Mounted

For a complete 360 degree interactive roof mounting viewing environment, go to: ironridge.com/products/roofmounting/360view.

XR Rails

XR10 Rail



A low-profile mounting rail for regions with light snow.

- 6' spanning capability
- Moderate load capability
- Clear & black anod. finish

XR100 Rail



The ultimate residential solar mounting rail.

- 8' spanning capability
- Heavy load capability
- Clear & black anod. finish

XR1000 Rail



A heavyweight mounting rail for commercial projects.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish

Internal Splices ☺



All rails use internal splices for seamless connections.

- Self-tapping screws
- Varying versions for rails
- Grounding Straps offered

Attachments

FlashFoot



Anchor, flash, and mount with all-in-one attachments.

- Ships with all hardware
- IBC & IRC compliant
- Certified with XR Rails

Slotted L-Feet



Drop-in design for rapid rail attachment.

- High-friction serrated face
- Heavy-duty profile shape
- Clear & black anod. finish

Standoffs



Raise flush or tilted systems to various heights.

- Works with vent flashing
- Ships pre-assembled
- 4" and 7" Lengths

Tilt Legs



Tilt assembly to desired angle, up to 45 degrees.

- Attaches directly to rail
- Ships with all hardware
- Fixed and adjustable

Clamps & Grounding

End Clamps



Slide in clamps and secure modules at ends of rails.

- Clear and black anod.
- Sizes from 1.22" to 2.3"
- Optional Under Clamps

Mid Clamps ☺



Attach and ground modules in the middle of the rail.

- Parallel bonding T-bolt
- Reusable up to 10 times
- Mill & black stainless

Grounding Lugs ☺



Ground system using the rail's top slot.

- No clips or washers
- Eliminates pre-drilling
- Easy top-slot mounting

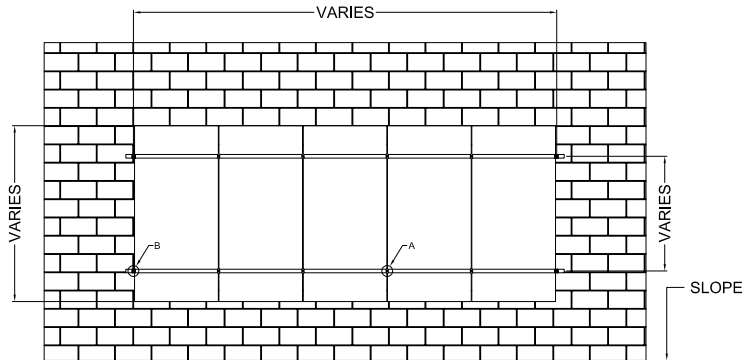
Accessories



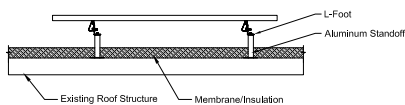
Provide a finished and organized look for rails.

- Snap-in Wire Clips
- Perfected End Caps
- UV-protected polymer

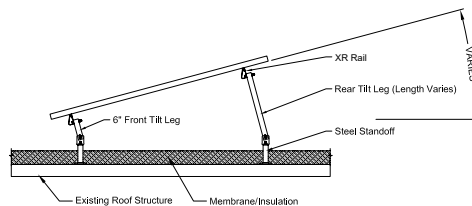
Assembly CAD Details

[Download AutoCAD File](#) | [Download PDF](#)


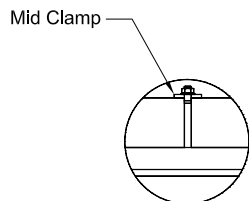
Typical Flush Mount Array - Plan View
1/2" = 1' -0"



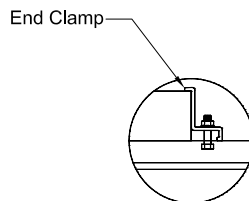
Section - Flush Mount - Flat Roof
3/4" = 1' -0"



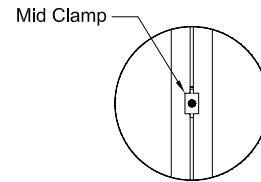
Section - Tilt Mount - Flat Roof
3/4" = 1' -0"



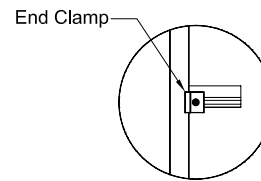
Detail D - Mid Clamp to Rail - Elevation
6" = 1' -0"



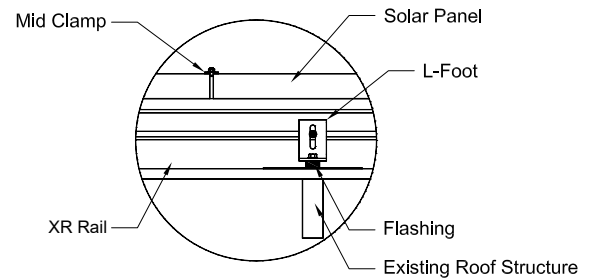
Detail E - End Clamp to Rail - Elev.
6" = 1' -0"



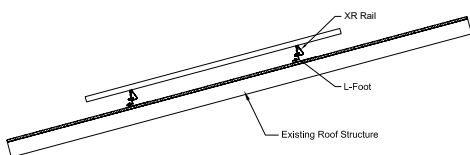
Detail A - Mid Clamp to Rail - Plan
3" = 1' -0"



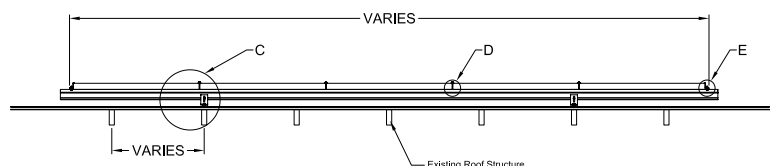
Detail B - End Clamp to Rail - Plan
3" = 1' -0"



Detail C - Typical Roof Connection
3" = 1' -0"



Section - Flush Mount - Sloped Roof
3/4" = 1' -0"



Typical Flush Mount Array - Elevation
3/4" = 1' -0"

XR1000 Rail

XR1000 is a heavyweight among solar mounting rails, built to handle extreme climates and spans 12 feet or more for commercial applications.



Property	Value
Material	6000 Series Aluminum
Finish	Clear Anodized
Beam Height	3.00"
Weight / Linear Foot	0.945 Lbs
Total Cross-Sectional Area	0.807 In ²
Section Modulus (X-axis)	0.530 In ³
Moment of Inertia (X-axis)	0.843 In ⁴
Moment of Inertia (Y-axis)	0.182 In ⁴
Torsional Constant	0.436 In ³
Polar Moment of Inertia	0.3299 In ⁴

XR100 Rail

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans.



Property	Value
Material	6000 Series Aluminum
Finish	Clear & Black Anodized
Beam Height	2.44"
Weight / Linear Foot	0.68 Lbs
Total Cross-Sectional Area	0.582 In ²
Section Modulus (X-axis)	0.297 In ³
Moment of Inertia (X-axis)	0.390 In ⁴
Moment of Inertia (Y-axis)	0.085 In ⁴
Torsional Constant	0.214 In ³
Polar Moment of Inertia	0.126 In ⁴

XR10 Rail

XR10 is a low-profile mounting rail, perfectly matched to regions with light snow. It achieves 6 foot spans, while staying light and economical.



Property	Value
Material	6000 Series Aluminum
Finish	Clear & Black Anodized
Beam Height	1.75"
Weight / Linear Foot	0.436 Lbs
Total Cross-Sectional Area	0.363 In ²
Section Modulus (X-axis)	0.136 In ³
Moment of Inertia (X-axis)	0.124 In ⁴
Moment of Inertia (Y-axis)	0.032 In ⁴
Torsional Constant	0.076 In ³
Polar Moment of Inertia	0.033 In ⁴

Internal Splice

IronRidge Rails are easy to extend with our patent-pending Internal Splices.



Property	Value
Material	6000 Series Aluminum
Finish	Mill
Length	12"
Hardware	2 SS Self-tapping Screws

End Clamp

IronRidge End Clamps secure PV modules to XR Rails using the top slot, independent upon the module's mounting holes.



Property	Value
Material	5000 & 6000 Series Aluminum
Finish	Mill & Black
Height	Varies depending on Module
Width	1.5"
Depth	1.5"
Weight	0.05 Lbs
Hardware	1/4"-20 SS Nut and Bolt

Mid Clamp

IronRidge Mid Clamps secure PV modules to the rail when there are multiple modules in a row.



Property	Value
Material	5000 Series Aluminum
Finish	Mill & Black
Spacing between Modules	1/4"
Width	1"
Depth	1.5"
Weight	0.05 Lbs
Hardware	1/4"-20 SS Nut and Bolt

Grounding Mid Clamp

Grounding Mid Clamps pierce through anodized coatings to ground array, being ETL listed to UL 2703.



Property	Value
Material	304 Stainless Steel
Finish	Mill & Black
Spacing between Modules	1/4"
Width	1"
Depth	1.2"
Weight	0.08 Lbs
Hardware	1/4"-20 SS Nut and Bolt

Slotted L-Foot

Our Slotted L-feet are engineered for most roof mounting applications. Vertical slots allow for easily dropping in rails with attached hardware and provide adjustability to account for roof irregularities.



Property	Value
Material	6000 Series Aluminum
Finish	Mill & Black
Height	3"
Width	2"
Depth	2"
Length of Vertical Slot	1.125"
Weight	0.22 Lbs
Hardware	3/8" SS

FlashFoot™

IronRidge FlashFoot™ is an all-in-one solar mounting product for composition shingle roofs that eliminates the need for separate standoffs, flashings, and L-feet. FlashFoot incorporates a number of structural and waterproofing features to securely attach IronRidge Rails to roof structures, while also protecting against water intrusion and weather damage. Comes with flashing, lag bolt, and L-Foot.



Property	Value
Material	Aluminum
Finish	Mill & Black
Height	3.5"
Length	12"
Width	12"
Dual Mechanical Seal	Yes
Open L-Foot Slot	Yes
Weight	1.35 Lbs
Hardware	5/16" and 3/8" SS

Under Clamp

IronRidge Under Clamps secure PV modules to the XR1000 Rail using the mounting holes of the PV module and the side slot of the rail.



Property	Value
Material	6000 Series Aluminum
Finish	Mill
Spacing between Modules	1/4"
Width	1.6"
Depth	1.5"
Weight	0.05 Lbs
Hardware	1/4"-20 SS Nut and Bolt

Flush Mount Standoff

Our Flush Mount Aluminum Standoffs are sized to integrate easily with Oatey Flashings. IronRidge Flush Mount Standoffs are available in 4" and 7" lengths. Standoffs include L-Foot mounting hardware. Lag bolts not included.



Property	Value
Material (Post)	6000 Series Aluminum
Material (Base)	5000 Series Aluminum
Finish	Mill
Heights	4", 7"
Post Diameter	1.5"
Depth	4"
Weight	0.84 Lbs
Hardware	5/16"

Fixed Tilt Length Leg

Our Fixed Tilt Legs attach directly to IronRidge XR Rails. This simple design provides adjustability in all 3 axes, and a variety of lengths cover most angles. Each Tilt Leg Kit comes with the shorter front leg, the longer rear leg, mounting brackets and hardware.



Property	Value
Material (Legs)	6000 Series Aluminum
Material (Brackets)	5000 Series Aluminum
Finish	Mill
Length (Short Leg)	6"
Length (Long Legs)	10", 15", 20"
Leg Diameter	1.5" Square Tube
Tube Weight / Linear Foot	0.80 Lbs
Height (Brackets)	2.6"
Width (Brackets)	1.85"
Depth (Brackets)	2"
Hardware	3/8" SS

Adjustable Tilt Length Leg

As with our Fixed Tilt Legs, the Adjustable Tilt Legs attach directly to IronRidge XR Rails. Each Tilt Leg Assembly kit comes with the shorter fixed front leg, the longer adjustable rear leg, and all the necessary hardware.



Property	Value
Material (Legs)	6000 Series Aluminum
Material (Brackets)	5000 Series Aluminum
Finish	Mill
Length (Short Leg)	6"
16" Range (Long Leg)	18" – 22"
28" Range (Long Leg)	30" – 46"
Outer Tube Diameter	1.8" Square Tube
Inner Tube Diameter	1.5" Square Tube
Upper Bracket	2.2"x4.25"x2"
Lower Bracket	2.6"x1.85"x2"
Hardware	3/8" SS

Bonding Strap

Bonding Straps are used to bond rail-to-rail connections. They are only required on the rail with the grounding lug. Bonding Strap Expansion Joint also available.



Property	Value
Material	Tin-plated Copper Flat Braid
Weight	0.054 Lbs
Wire Gauge	9 AWG

End Caps

End caps provide a finished look while protecting against the collection of water and debris inside the rail.



Property	Value
Material	Polycarbonate
Color	Black
UV Protection	Yes

Wire Clips

IronRidge Wire Clips snap into the top slot of XR Rails, and accommodate up to ten 5mm panel wires, or one MC4, one Enphase wire and one dual Enphase wire. The Wire Clips are molded from black polycarbonate with UV protection.



Property	Value
Material	Polycarbonate
Color	Black
UV Protection	Yes
Weight	0.01 Lbs

Microinverter Mounting Kit

Mount either one or two microinverters, depending on model.



Property	Value
Material	Stainless Steel
Color	Mill
Hardware	1/4 x 3/4" Hex or T-Bolts
Weight	0.06 Lbs

Grounding Lug

Manufactured from high strength copper alloy with stainless steel screw, UL listed and CSA certified. Hex bolt and grounding T-bolt versions available. Hex bolt version not compatible with XR10 or XR100 rails.



Property	Value
Material	SS & Tin-plated Copper
Weight	0.154 Lbs
Conductor Size	4-14 AWG
Listing	UL 467 Compliant
Hardware	#10 & 1/4" SS

Third-Party Grounding Components

Wiley grounding clips (WEEB DMC) are used in conjunction with the IronRidge Mid Clamps for grounding PV modules to rails.



Property	Value
Material	304 Stainless Steel
ETL Listed	ANSI/UL 467 Compliant
Maximum Conductor Size	6 AWG (with two WEEBs contacting each module)
Hardware	None

Wiley WEEB 6.7 grounding lugs are used in conjunction with copper wire to provide a continuous ground for every row of rails.



Property	Value
WEEB Material	304 Stainless Steel
Lug Material	Tin-plated Copper
ETL Listed	ANSI/UL 467 Compliant
Ground Conductor	One 14 AWG to 6 AWG or two 10 AWG, two 12 AWG
Hardware	1/4"-20 & 1/4"-28 SS

Wiley bonding jumpers are used to provide a continuous ground between spliced rail sections. Order one jumper for every splice.



Property	Value
WEEB Material	304 Stainless Steel
Braid Material	Tin-plated Copper
ETL Listed	ANSI/UL 467 Compliant
Hardware	1/4"-20 SS

Summary

With the IronRidge Design Assistant™ our customers move from laboriously designing systems across the span of weeks, to intuitively designing while pricing, a bill of materials and engineering calculations all updates in real-time.

If you choose to register for an online account, you will then be able to save your work and prevent losing your project's configuration settings.

The application is so quick and easy to use, multiple what-if scenarios can be evaluated through immediate engineering and pricing feedback. Engineered calculations comply with ASCE 7-10 building codes for expedited P.E. approval.

The IronRidge Design Assistant™ is provided free of charge to IronRidge customers.

Design, engineer and quote, online, in just minutes.

ironridge.com/support/designassistant



Code Compliance

IronRidge Roof Mount components, when installed in accordance with the IronRidge Roof Mount Installation Manual, will be structurally adequate and will meet the structural requirements of:

- ASCE/SEI 7-10 Min. Design Loads for Buildings & Other Structures
- California Building Code 2013 Edition
- AC428, Acceptance Criteria for Modular Framing Systems Used to Support PV Modules, Effective November 1, 2012 (ICC-ES)
- Aluminum Design Manual, 2010 Edition
- Florida Building Code 2010 Edition
- Florida Residential Building Code 2010 Edition
- International Building Code 2012 Edition
- International Residential Building Code 2012 Edition

IronRidge Rails with Integrated Grounding conforms to:

- UL Subject 2703 Outline of Investigation for Rack Mounting Systems and Clamping Devices for Flat-Plate Photovoltaic Modules and Panels
- ETL Listed requirements and certification

Thermal Expansion (Expansion Joints)

For rows exceeding 100 feet of rail, a Grounding Strap Expansion Joint is required for thermal expansion. Insert Internal Splice into first rail and secure with screw. Assemble and secure Expansion Joint an inch from rail end. Slide second rail over Internal Splice, attach other end of Expansion Joint with hardware, and secure with screw. Torque screws and nuts to 84 in-lbs.

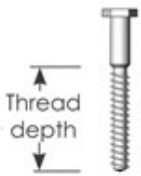
AWC Lag Pull-out Chart

Lag pull-out (withdrawal) capacities (lbs) in typical roof lumber (ASD)

Material	Specific Gravity	Lag Screw Specifications*
Douglas Fir, Larch	0.50	266
Douglas Fir, South	0.46	235
Engelmann Spruce, Lodgepole Pine (MSR 1650 f & higher)	0.46	235
Hem, Fir, Redwood (close grain)	0.43	212
Hem, Fir (North)	0.46	235
Southern Pine	0.55	307
Spruce, Pine, Fir	0.42	205
Spruce Pine Fir (E of 2 million psi and higher grades of MSR and MEL)	0.50	266

Sources: American Wood Council, NDS 2005, Table 11.2A, 11.3.2A.

Notes: (1) Thread must be embedded in the side grain of a rafter or other structural member integral with the building structure.
(2) Lag bolts must be located in the middle third of the structural member.
(3) These values are not valid for wet services.
(4) This table does not include shear capacities. If necessary, contact a local engineer to specify lag bolt size with regard to shear forces.
(5) Install lag bolts with head and washer flush to surface (no gap). Do not over-torque.
(6) Withdrawal design values for lag screw connections shall be multiplied by applicable adjustment factors if necessary.
See Table 10.3.1 in the American Wood Council NDS for Wood Construction.



*5/16" shaft, per inch thread depth (Use flat washers with lag screws).

Rails & Splices

When top mounting panels, the lengths of XR Rails required for each row may be determined by multiplying the quantity of modules in a row by the module's width. Add to this ¼ inch space between each module and 1.5 inches to each end for the total length of rail required for that row.

XR Rails

Part Number	Description	Weight	Packaging
XR-1000-132A	XR1000, Rail 132" (11 Feet), Clear	11.24 Lbs	Sub-bundles of 4; Bundles of 80
XR-1000-168A	XR1000, Rail 168" (14 Feet), Clear	14.30 Lbs	Sub-bundles of 4; Bundles of 80
XR-1000-204A	XR1000, Rail 204" (17 Feet), Clear	17.36 Lbs	Sub-bundles of 4; Bundles of 80
XR-100-132A	XR100, Rail 132" (11 Feet), Clear	7.69 Lbs	Sub-bundles of 4; Bundles of 80
XR-100-132B	XR100, Rail 132" (11 Feet), Black	7.69 Lbs	Sub-bundles of 4; Bundles of 80
XR-100-168A	XR100, Rail 168" (14 Feet), Clear	9.76 Lbs	Sub-bundles of 4; Bundles of 80
XR-100-168B	XR100, Rail 168" (14 Feet), Black	9.76 Lbs	Sub-bundles of 4; Bundles of 80
XR-100-204A	XR100, Rail 204" (17 Feet), Clear	11.88 Lbs	Sub-bundles of 4; Bundles of 80
XR-100-204B	XR100, Rail 204" (17 Feet), Black	11.88 Lbs	Sub-bundles of 4; Bundles of 80
XR-10-132A	XR10, Rail 132" (11 Feet), Clear	4.80 Lbs	Sub-bundles of 4; Bundles of 160
XR-10-132B	XR10, Rail 132" (11 Feet), Black	4.80 Lbs	Sub-bundles of 4; Bundles of 160
XR-10-168A	XR10, Rail 168" (14 Feet), Clear	6.11 Lbs	Sub-bundles of 4; Bundles of 160
XR-10-168B	XR10, Rail 168" (14 Feet), Black	6.11 Lbs	Sub-bundles of 4; Bundles of 160
XR-10-204A	XR10, Rail 204" (17 Feet), Clear	7.41 Lbs	Sub-bundles of 4; Bundles of 160
XR-10-204B	XR10, Rail 204" (17 Feet), Black	7.41 Lbs	Sub-bundles of 4; Bundles of 160

Internal Splices

Part Number	Description	Weight	Packaging
XR-1000-SPLC	XR1000 Splice	0.55 Lbs	1 Splice/Kit; 20 Splices/Box
XR-100-SPLC	XR100 Splice	0.54 Lbs	1 Splice/Kit; 20 Splices/Box
XR-10-SPLC	XR10 Splice	0.53 Lbs	1 Splice/Kit; 20 Splices/Box

Clamps

Module Clamp size depends on the module thickness. Use the table below to determine which Module Clamp will fit your projects module thickness.

Module Thickness		Clamp Info	Part Numbers			
Mm	Inches	Type	End Clamp	Hex Mid Clamp	T-bolt Mid Clamp	Grounding Mid Clamp
31.0 - 32.5	1.22 - 1.28	I	29-7000-125	29-7000-105	29-70TB-105	RS-GD-MCL-200
32.5 - 33.5	1.28 - 1.32	L	29-7000-130	29-7000-105	29-70TB-105	RS-GD-MCL-200
33.3 - 34.8	1.31 - 1.37	A	29-7000-134	29-7000-105	29-70TB-105	RS-GD-MCL-200
34.8 - 36.8	1.37 - 1.45	B	29-7000-224	29-7000-105	29-70TB-105	RS-GD-MCL-225
37.6 - 38.6	1.48 - 1.52	M	29-7000-150	29-7000-101	29-70TB-101	RS-GD-MCL-225
39.0 - 41.0	1.53 - 1.61	C	29-7000-157	29-7000-101	29-70TB-101	RS-GD-MCL-225
41.1 - 42.7	1.62 - 1.68	J	29-7000-165	29-7000-101	29-70TB-101	RS-GD-MCL-250
42.7 - 44.2	1.68 - 1.74	E	29-7000-171	29-7000-101	29-70TB-101	RS-GD-MCL-250
45.0 - 47.0	1.77 - 1.85	F	29-7000-214	29-7000-108	29-70TB-108	RS-GD-MCL-250
46.7 - 48.3	1.84 - 1.90	K	29-7000-187	29-7000-108	29-70TB-108	RS-GD-MCL-275
49.0 - 51.1	1.93 - 2.01	G	29-7000-204	29-7000-108	29-70TB-108	RS-GD-MCL-275
57.4 - 58.9	2.26 - 2.32	H	29-7000-230	29-7000-104	29-70TB-104	Unsupported

End Clamps

Part Number	Description	Weight	Packaging
29-7000-125	Kit, 4pcs, End Clamp I, 1.25", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-130	Kit, 4pcs, End Clamp L, 1.30", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-134	Kit, 4pcs, End Clamp A, 1.34", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-224	Kit, 4pcs, End Clamp B, 1.41", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-150	Kit, 4pcs, End Clamp M, 1.50", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-157	Kit, 4pcs, End Clamp C, 1.57", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-165	Kit, 4pcs, End Clamp J, 1.65", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-171	Kit, 4pcs, End Clamp E, 1.71", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-214	Kit, 4pcs, End Clamp F, 1.81", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-187	Kit, 4pcs, End Clamp K, 1.87", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-204	Kit, 4pcs, End Clamp G, 1.97", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-230	Kit, 4pcs, End Clamp H, 2.30", Mill	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-125B	Kit, 4pcs, End Clamp I, 1.25" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-130B	Kit, 4pcs, End Clamp L, 1.30" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-134B	Kit, 4pcs, End Clamp A, 1.34" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-224B	Kit, 4pcs, End Clamp B, 1.41" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-150B	Kit, 4pcs, End Clamp M, 1.50" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-157B	Kit, 4pcs, End Clamp C, 1.57" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-165B	Kit, 4pcs, End Clamp J, 1.65" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-171B	Kit, 4pcs, End Clamp E, 1.71" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-214B	Kit, 4pcs, End Clamp F, 1.81" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-187B	Kit, 4pcs, End Clamp K, 1.87" Black	0.3 Lbs	Kits of 4; Boxes of 25
29-7000-204B	Kit, 4pcs, End Clamp G, 1.97" Black	0.3 Lbs	Kits of 4; Boxes of 25

Mid Clamps

Part Number	Description	Weight	Packaging
29-7000-105	Kit, 4pcs, Mid Clamp A/B/I/L, 2.00", Mill (Hex)	0.3 Lbs	Kits of 4; Boxes of 50
29-7000-101	Kit, 4pcs, Mid Clamp C/D/J/E/M, 2.25", Mill (Hex)	0.3 Lbs	Kits of 4; Boxes of 50
29-7000-108	Kit, 4pcs, Mid Clamp F/K/G, 2.50", Mill (Hex)	0.3 Lbs	Kits of 4; Boxes of 50
29-7000-104	Kit, 4pcs, Mid Clamp H, 2.75", Mill (Hex)	0.3 Lbs	Kits of 4; Boxes of 50
29-70TB-105	Kit, 4pcs, Mid Clamp A/B/I/L, 2.00", Mill (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
29-70TB-101	Kit, 4pcs, Mid Clamp C/D/J/E/M, 2.25", Mill (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
29-70TB-108	Kit, 4pcs, Mid Clamp F/K/G, 2.50", Mill (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
29-70TB-104	Kit, 4pcs, Mid Clamp H, 2.75", Mill (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
29-7000-105B	Kit, 4pcs, Mid Clamp A/B/I/L, 2.0", Black (Hex)	0.3 Lbs	Kits of 4; Boxes of 50
29-7000-101B	Kit, 4pcs, Mid Clamp C/D/J/E/M, 2.25", Black (Hex)	0.3 Lbs	Kits of 4; Boxes of 50
29-7000-108B	Kit, 4pcs, Mid Clamp F/K/G, 2.5", Black (Hex)	0.3 Lbs	Kits of 4; Boxes of 50
29-7000-104B	Kit, 4pcs, Mid Clamp H, 2.75", Black (Hex)	0.3 Lbs	Kits of 4; Boxes of 50
29-70TB-105B	Kit, 4pcs, Mid Clamp A/B/I/L, 2.00", lack (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
29-70TB-101B	Kit, 4pcs, Mid Clamp C/D/J/E/M, 2.25", Black (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
29-70TB-108B	Kit, 4pcs, Mid Clamp F/K/G, 2.50", Black (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
29-70TB-104B	Kit, 4pcs, Mid Clamp H, 2.75", Black (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50

Grounding Mid Clamps

Part Number	Description	Weight	Packaging
RS-GD-MCL-200	Kit, 4pcs, Mid Clamp A/B/I/L, 2.00", Mill (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
RS-GD-MCL-225	Kit, 4pcs, Mid Clamp C/D/J/EM, 2.25", Mill (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
RS-GD-MCL-250	Kit, 4pcs, Mid Clamp F/K/G, 2.50", Mill (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
RS-GD-MCL-275	Kit, 4pcs, Mid Clamp H 2.75", Mill (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
RS-GD-MCL-200B	Kit, 4pcs, Mid Clamp A/B/I/L, 2.00", Black (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
RS-GD-MCL-225B	Kit, 4pcs, Mid Clamp C/D/J/EM, 2.25", Black (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
RS-GD-MCL-250B	Kit, 4pcs, Mid Clamp F/K/G, 2.50", Black (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50
RS-GD-MCL-275B	Kit, 4pcs, Mid Clamp H, 2.75", Black (T-bolt)	0.3 Lbs	Kits of 4; Boxes of 50

Under Clamps

Part Number	Description	Weight	Packaging
29-7000-117	Kit, 4pcs, Under Clamp	0.4 Lbs	Kits of 4; Boxes of 25

Attachments
Slotted L-Feet

Part Number	Description	Weight	Packaging
RS-LFT-001	4-pack, Slotted L-Foot, Mill	1.14 Lbs	4 L-feet/Pack; 25 Kits/Box
RS-LFT-001B	4-pack, Slotted L-Foot, Black	1.14 Lbs	4 L-feet/Pack; 25 Kits/Box

FlashFoot™

Part Number	Description	Weight	Packaging
RF-FLSH-001	Kit, 6-pack, IronRidge FlashFoot (Mill) (L-foot Included)	8.1 Lbs	6 Flashings/Box
RF-FLSH-001B	Kit, 6-pack, IronRidge FlashFoot (Black) (L-foot Included)	8.1 Lbs	6 Flashings/Box

Flush Mount Standoffs

Part Number	Description	Weight	Packaging
51-6004-500L	Kit, 4" Standoff, Flush Mount, Mill	0.56 Lbs	20 Standoffs / Box
51-6007-500L	Kit, 7" Standoff, Flush Mount, Mill	0.84 Lbs	20 Standoffs / Box

Adjustable Tilt Legs

Part Number	Description	Weight	Packaging
51-7516-016H	Adjustable Tilt Leg, 16 inches (18-22")	4.29 Lbs	12 Adjustable Tilt Legs/Box
51-7528-028H	Adjustable Tilt Leg, 28 inches (30-46")	6.34 Lbs	12 Adjustable Tilt Legs/Box

Fixed Tilt Legs

Part Number	Description	Weight	Packaging
51-7210-010	Tilt Leg Kit, 10", Mill	1.87 Lbs	20 Fixed Tilt Legs/Box
51-7215-015	Tilt Leg Kit, 15", Mill	2.20 Lbs	20 Fixed Tilt Legs/Box
51-7220-020	Tilt Leg Kit, 20", Mill	2.56 Lbs	20 Fixed Tilt Legs/Box

Accessories

Part Number	Description	Weight	Packaging
XR-1000-CAP	XR1000 End Cap (Polybag, 20)	7 Lbs/Box	20 End Caps/ Bag; 500 Caps / Box
XR-100-CAP	XR100 End Cap (Polybag, 20)	5 Lbs/Box	20 End Caps/ Bag; 500 Caps / Box
XR-10-CAP	XR10 End Cap (Polybag, 20)	4 Lbs/Box	20 End Caps/ Bag; 500 Caps / Box
29-4000-077	Wire Clip (Polybag, 20)	6.70 Lbs/Box	20 Clips / Bag; 500 Clips / Box
29-5003-005	Kit, ¼ x ¾ Microinverter Mounting	10.30 Lbs/Box	150 Kits / Box
29-50TB-005	Kit, ¼ x ¾ Microinverter Mounting, T-Bolt	10.30 Lbs/Box	150 Kits / Box

Grounding

Part Number	Description	Weight	Packaging
RS-GDST-001	Bonding Strap	2.7 Lbs/Box	50 Kits / Box
RS-GDXP-001	Bonding Strap Expansion Joint	2.0 Lbs/Box	25 Kits / Box
RS-GDLG-001	Grounding Lug (XR1000 Compatible Only)	7.7 Lbs/Box	50 Kits / Box
RS-GDLG-002	Grounding Lug (T-Bolt)	7.9 Lbs/Box	50 Kits / Box
29-4000-001	WEEB DMC Compression Clip	.50 Lbs/Box	100 Clips / Box
29-4000-002	WEEB Grounding Lug 6.7	12.45 Lbs/Box	100 Lugs / Box
29-4000-003	WEEB Bonding Jumper	17.55 Lbs/Box	100 Jumpers / Box

System Support

IronRidge provides a complete system of technical support including installation guides, pre-stamped certification letters for most PV-friendly states, our online Design Assistant software, and live, knowledgeable person-to-person customer service.

Downloadable Support Documents

Our website at www.ironridge.com/products/roofmounting/systemsupport contains all of the technical support information necessary to design, quote, certify, and install an IronRidge Roof Mount system. The specific documents that can be found here include:

- CAD files (AutoCAD format)
- Engineering Design Guide
- Pre-stamped Certification Letters
- Installation Guides
- Parts Catalog

3rd Party Partners

We've engineered best-of-class 3rd party solutions with our Roof Mount platform to further improve the quality we offer customers. Where appropriate, pre-stamped certification letters are included to simplify and expedite the design, quoting, and permitting processes. At this time, we work with roofing products from the following companies:

- Ecofasten
- Enphase
- Quick Mount PV
- S5!
- Wiley

Design Assistant

The IronRidge Design Assistant automates much of the Design and Engineering phases of a project. Easily accessible from our website, the Design Assistant provides a highly intuitive layout interface, automatically calculates critical engineering information based on your project's specific load conditions, provides the ability to add optional components and 3rd party products, and determines an accurate bill of materials and quotations.

The Roof Mount Design Assistant can be accessed at: www.ironridge.com/rm

Engineering Services

IronRidge provides expedited site specific certification letters for many standard load conditions. These letters are available in most PV-friendly states, including:

Arizona	North Carolina
California	New Hampshire
Colorado	New Jersey
Connecticut	New Mexico
D.C.	Nevada
Delaware	New York
Florida	Ohio
Georgia	Oklahoma
Hawaii	Oregon
Iowa	Pennsylvania
Illinois	Rhode Island
Indiana	South Carolina
Louisiana	Tennessee
Massachusetts	Texas
Maryland	Utah
Michigan	Virginia
Maine	Vermont
Minnesota	Washington
Missouri	

In addition, we provide pre-stamped certification letters for:

Ontario
New Zealand
Puerto Rico

For non-standard certifications, wet-stamped letters, or specialized engineering requests, please contact support@ironridge.com.

Customer Service

The IronRidge support staff is knowledgeable, experienced, friendly, and responsive. We would be happy to provide assistance on any questions you may have. Please feel free to contact us through your preferred method at:

Email: support@ironridge.com

Phone: 800-227-9523

Warranty Information

Effective for IronRidge, Inc. ("IronRidge") mounting structure components ("Products") manufactured after April 1st, 2012, IronRidge provides the following warranties, for Products installed properly and used for the purpose for which the Products are designed:

- finishes shall be free of visible defects, peeling, or cracking, under normal atmospheric conditions, for a period of three (3) years from the earlier of (i) the date of complete installation of the Product or (ii) thirty days after the original purchaser's date of purchase of the Product ("Finish Warranty");
- components shall be free of structurally-related defects in materials for a period of ten (10) years from the earlier of (i) the date of complete installation of the Product or (ii) thirty days after the original purchaser's date of purchase of the Product;
- components shall be free of functionally-related manufacturing defects for a period of twenty (20) years from date of manufacture.

The Finish Warranty does not apply to: (a) surface oxidation of the galvanized steel components or any foreign residue deposited on Product finish; and (b) Products installed in corrosive atmospheric conditions, as defined solely by IronRidge; corrosive atmospheric conditions include, but are not limited to, conditions where Product is exposed to corrosive chemicals, fumes, cement dust, salt water marine environments or to continual spraying of either salt or fresh water. The Finish Warranty is VOID if (c) the practices specified by AAMA 609 & 610-02 – "Cleaning and Maintenance for Architecturally Finished Aluminum" (www.aamanet.org) are not followed by Purchaser for IronRidge's aluminum based components; and (d) if the practices specified by ASTM A780 / A780M - 09 "Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings" are not followed by Purchaser for IronRidge's galvanized steel-based components.

The warranties above do not cover any parts or materials not manufactured by IronRidge, and exclude non-functionally-related defects, as defined solely by IronRidge. The warranties do not cover any defect that has not been reported to IronRidge in writing within twenty (20) days after discovery of such defect.

In the event of breach of or non-compliance with the warranties set forth above, IronRidge's sole obligation and liability, and the sole and exclusive remedy for such breach or non-compliance, shall be correction of defects by repair, replacement, or credit, at IronRidge's sole discretion. Such repair, replacement or credit shall completely satisfy and discharge all of IronRidge's liability with respect to these warranties.

Refurbished Product may be used to repair or replace the defective components. Transportation, installation, labor, or any other costs associated with Product replacement are not covered by these warranties and are not reimbursable. These warranties additionally do not cover (a) normal wear, or damage resulting from misuse, overloading, abuse, improper installation (including failure to follow professional instruction and certification), negligence, or accident, or from force majeure acts including any natural disasters, war or criminal acts; and (b) Products that have been altered, modified or repaired without written authorization from IronRidge or its authorized representative; and (c) Products used in a manner or for a purpose other than that specified by IronRidge. A formal document proving the purchase and the purchase date of the Product is required with any warranty claim.

Except as set forth above, IronRidge sells the Products on an "AS IS" basis, which may not be free of errors or defects, and ALL EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUALITY, WORKMANLIKE EFFORT, CORRESPONDENCE TO DESCRIPTION, DESIGN, TITLE OR NON-INFRINGEMENT, OR ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE OR TRADE PRACTICE, ARE HEREBY DISCLAIMED.



VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number: _____

OFFICE USE ONLY
Issued Date
Zoning

BUILDING PERMIT

Job Address <u>7229 N Santa Monica Blvd</u>	Building Type: Residential - Commercial
Description of Work <u>6.5 KW photovoltaic system</u>	
Estimated Cost of Project \$ <u>11,871</u>	

Owner/Occupant	
Contact Name <u>David Petering</u>	Business Name
Address <u>7229 N Santa Monica Blvd</u>	City/State/Zip
Phone <u>414-351-3617</u>	Email

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name <u>Arch Electric Inc.</u>	Contact Name <u>Catherine Zaleski</u>
Address <u>1237 Pilgrim Rd. Ste 201</u>	City/State/Zip
Phone <u>Plymouth, WI 53073</u>	Email <u>Catherine@archelec.com</u>
Dwelling Contractor # <u>M270617</u>	Dwelling Contractor Qualifier # <u>51097745</u>

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition	Garage

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	
Building Board	\$75.00	
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition	\$85.00 minimum plus	\$0.12/sqft
Moving buildings over public ways	\$230.00 plus	\$0.12/sqft
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Other		
Work started without permit	Double Fee	
	Minimum Fee	\$70.00
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature
Rev 09/20

Catherine Zaleski Date 9/17/20

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**



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Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition	Garage

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	
Building Board	\$75.00	
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition	\$85.00 minimum plus	\$0.12/sqft
Moving buildings over public ways	\$230.00 plus	\$0.12/sqft
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Other		
Work started without permit Double Fee		
Minimum Fee		\$70.00
Payable to: Village of Fox Point		Total Permit Fee \$

Applicant Signature

Rev 09/20

Date

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.055118

Oct 5, 2020

7229 N Santa Monica

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PERMIT	188.00
24-44460 BUILDING PERMIT	
Total:	188.00
CHECK	188.00
Check No: 22143	
Payor: 7229 N Santa Monica	
Total Applied:	188.00
Change Tendered:	.00

10/05/2020 9:44 AM



VILLAGE OF FOX POINT

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

BUILDING BOARD

The Building Board meeting is typically held on the second Wednesday of every month starting at 5:00 p.m. Please check the website (Agendas & Minutes) for the agenda.

The application deadline is the Friday prior to the Wednesday meeting at noon. All applications must be complete and shall include the proper filling fee.

The following are examples of projects that must appear before the Building Board: New Construction, Additions, Exterior Improvements, Detached Garage, Decks, Sheds (≥ 100 sqft), Window Replacement, New Doors, Patio Doors, Pools, Signs and Solar Systems.

- ☐ **Three (3) Sets of drawings** to 1/4 inch scale on 24" x 36" maximum size sheets. These shall include all elevations, floor plans, foundation plan, and cross sections.

Elevation Drawings shall include all proposed elevations of the building, even if changes to the elevation are not proposed. This is to ensure consistency of all elevations. In cases where a building element may be skewed from another, it may be necessary to draw more than the four primary elevations of the building to clearly explain the intent of the design. All building elevations must be fully dimensioned to indicate heights above grade for all components. If the project is a building addition or remodeling, the original structure should be clearly illustrated as new building versus existing structure. ***The complete existing elevation should be shown in all cases of additions and remodeling.*** All building materials must be identified and noted on each elevation drawing. This is to include, but not limited to, type and size of siding, type and size of masonry, window type size and material, roofing material, fascia, rakes, soffits, eaves, and flashing materials. It is recommended to bring material samples and colors.

Dimensioned floor plans shall include all floor plans of the proposed building. Each plan must include complete dimensions, and include room names for each space. In the case of an addition, each room shall be tagged either existing or new. In the case where there is a detached garage, a separate plan, fully dimensioned, for the garage must be included.

- ☐ **Three (3) Sets - Color photos** that includes all elevations of existing home and any accessory structures on the property.
- ☐ **Three (3) Sets - Survey** (to be less than one year old or an accurate survey showing all buildings) This document must include all property lines with distances bearings, North arrow, exact location of all existing and proposed buildings, parking areas, drives, public improvements, easements, and other key features of the site. Show distances from front, rear and side property lines.
- ☐ **Site Plan** (Include a North arrow and dimensions) This document must include all property lines, utility and access easements, zoning setbacks, grades at one foot intervals, exact location of all existing and proposed buildings or additions including roof overhangs, all hard surfaced areas (parking areas, drives, patios, sidewalks, etc.), swimming pools, and other accessory structures.
- ☐ **Open Area** calculation required for New Construction, Additions, and Accessory Structures.
- ☐ **Grades** - Existing and proposed grades to be submitted to engineering before Building Board meeting.
- ☒ **Completed Building Permit Application.**
- ☐ **Building Board Fee \$75.00** Payable to the Village of Fox Point.
- ☐ **IT IS MANDATORY THAT A REPRESENTATIVE IS IN ATTENDANCE.**



VILLAGE OF FOX POINT

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

BUILDING PERMIT AND ENGINEERING CHECKLIST

This checklist is intended to provide an applicant with a general introduction to and basic understanding of the information that must be provided in order to obtain a building permit. ***The applicant and/or property owner shall be responsible for reviewing all applicable code requirements and designing their project in compliance with those requirements.***

☒ **Residential Building Permit**

- | | |
|--|--|
| ☐ Interior Remodeling (kitchen, bathrooms, rec rooms, etc.) | ☐ Decks |
| ☐ Exterior Remodeling (Windows, siding, etc.) | ☐ Pools |
| ☐ House Addition | ☐ Accessory Buildings |
| ☐ Detached Garage | ☐ Fences |
| ☐ New House Construction | ☐ Roofing |
| ☐ Razing Permit | ☐ Occupancy Permit |
| | ☒ Building Board Approvals (Exterior Alterations only) |

☐ **Commercial Building Permit**

- ☐ Village Board Approval
- ☐ State Approved Plans
- ☐ Building Board Approvals (Exterior Alterations only)
- ☐ Occupancy Permit

☐ **Institutional Building Permit**

- ☐ Conditional Use Permit
- ☐ State Approved Plans
- ☐ Building Board Approvals (Exterior Alterations only)
- ☐ Occupancy Permit

☒ **Other Permits**

- | | |
|---|--|
| ☐ Electrical Permit | ☐ Culvert Permit |
| ☐ Plumbing Permit | ☐ Construction on the Lake Bluff or Ravine |
| ☐ HVAC Permit | ☐ Urban Forestry - Tree Removal, Cutting on the Bluff, etc. |
| ☐ Signs | ☐ Storm Water Permit |
| ☐ Grading or Drainage Permit | ☐ Underground Storage Tank (UST) Removal |
| ☐ Fill Permit | |
| ☐ Erosion Control | |

These are described in more detail as follows:

1. **Chapter 756 - Building and Razing Permits.** A building permit application form must be filled-out completely in order to obtain a permit for building and/or razing.
2. **Chapter 292 - Streets and Sidewalks.** For activities being performed in the Village's Right of Way (ROW), a separate permit may need to be obtained and a deposit must be paid. **Applicants are reminded that it is their responsibility to contact the Village after all work in the ROW is completed. Deposits will only be returned upon satisfactorily restoring the Village ROW.**



September 28, 2020

Arch Electric, INC.
1237 Pilgrim RD. #201
Plymouth, WI 53073

RE: Structural Roof Evaluation for the *Petering Residence: 7229 North Santa Monica Boulevard, Fox Point, Wisconsin*

As per your request, we have evaluated the roof structure under the proposed solar panel array. The information used to evaluate this structure was gathered during a field visit by Arch Electric INC on behalf of Right Angle Engineering. A total of 18 solar panels will be added to the structure. The roof structure consists of 2x4 trusses spaced at 24" on center. The roof consists of asphalt shingles. The existing roof framing was evaluated using RISA analysis software. The following loads were used in the analysis of the roof framing:

Dead Load	12.0 psf
Roof Snow Load	30.0 psf
Solar Load	3.0 psf

Based on our analysis we have determined that the existing roof framing will adequately support the additional loads imposed by the solar panels. A total of 36 roof attachments should be staggered such that the mounting hardware may be attached to each truss at 24" O.C. The racking system should be installed per the manufacture's specifications. The attachments consist of a 5/16" or 18/8 SS lag screw with 2" minimum penetration centered on each truss top chord. Waterproofing around the roof penetrations is the responsibility of others. Right Angle Engineering assumes no responsibility for improper instillation of the solar panels.

Regards,

Robert D Smythe, P.E.
Right Angle Engineering

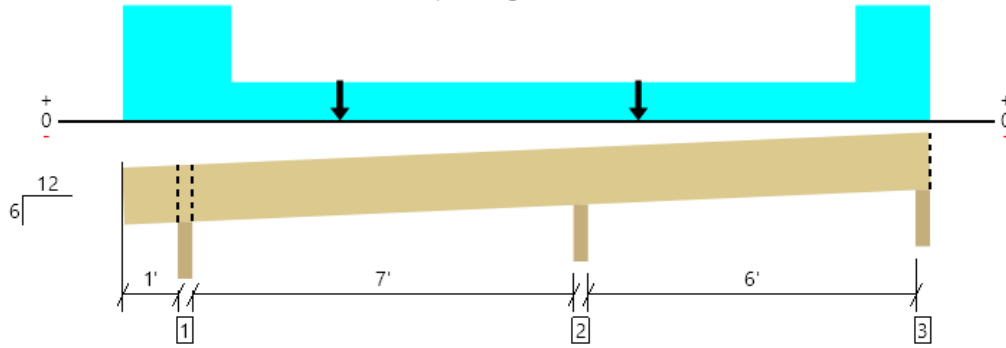


9/28/20

Level, Roof: Joist

1 piece(s) 2 x 4 Douglas Fir-Larch No. 1 @ 24" OC

Sloped Length: 16' 7 9/16"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Member Length : 16' 9 5/16"

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	691 @ 8' 5 1/4"	2495 (3.50")	Passed (28%)	--	1.0 D + 1.0 S (Adj Spans)
Shear (lbs)	391 @ 8' 10 1/8"	725	Passed (54%)	1.15	1.0 D + 1.0 S (Adj Spans)
Moment (Ft-lbs)	495 @ 4'	506	Passed (98%)	1.15	1.0 D + 1.0 S (Alt Spans)
Live Load Defl. (in)	0.304 @ 4' 4 1/8"	0.408	Passed (L/321)	--	1.0 D + 1.0 S (Alt Spans)
Total Load Defl. (in)	0.433 @ 4' 4 3/8"	0.543	Passed (L/226)	--	1.0 D + 1.0 S (Alt Spans)

- Deflection criteria: LL (L/240) and TL (L/180).
- Overhang deflection criteria: LL (2L/240) and TL (2L/180). Upward deflection on left cantilever exceeds overhang deflection criteria.
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.

System : Roof
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD
Member Pitch : 6/12

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Snow	Total	
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	138	252	390	Blocking
2 - Beveled Plate - SPF	3.50"	3.50"	1.50"	280	411	691	None
3 - Beveled Plate - SPF	3.50"	3.50"	1.50"	81	91	172	Blocking

Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	3' 5" o/c	
Bottom Edge (Lu)	7' 4" o/c	

Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Spacing	Dead (0.90)	Snow (1.15)	Comments
1 - Uniform (PSF)	0 to 14' 10 1/2"	24"	15.0	-	Default Load
2 - Uniform (PSF)	0 to 2'	24"	-	30.0	
3 - Uniform (PSF)	13' 6" to 14' 10 1/2"	24"	-	30.0	
4 - Point (lb)	4'	N/A	-	263	
5 - Point (lb)	9' 6"	N/A	-	263	

Weyerhaeuser Notes

Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. Accessories (Rim Board, Blocking Panels and Squash Blocks) are not designed by this software. Products manufactured at Weyerhaeuser facilities are third-party certified to sustainable forestry standards. Weyerhaeuser Engineered Lumber Products have been evaluated by ICC-ES under evaluation reports ESR-1153 and ESR-1387 and/or tested in accordance with applicable ASTM standards. For current code evaluation reports, Weyerhaeuser product literature and installation details refer to www.weyerhaeuser.com/woodproducts/document-library.

The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
Dakota Smythe Right Angle Engineering (925) 316-8341 solar@rightangleeng.com	



9/28/2020 9:06:44 PM UTC

ForteWEB v3.0, Engine: V8.1.3.1, Data: V8.0.0.0

File Name: Dave Petering

Page 1 / 1



VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

OFFICE USE ONLY
Issuance Date
Zoning

BUILDING PERMIT

Job Address 7057 N Fairchild Circle	Building Type: Residential - Commercial
Description of Work Egress window & Basement office / storage room	
Estimated Cost of Project \$ 14,000	

Owner/Occupant	
Name Catie Knight	Business Name
Address 7057 N Fairchild Circle	City/State/Zip Fox Point
Phone 414-374-2518	Email Catmander@gmail.com

Cautionary Statement required when homeowner is applying for permit

Contractor	
Company Name Glacier Concepts	Contractor Name Raymond Norene
Address W660 N520 Madison Ave	City/State/Zip Cedarburg, WI 53012
Phone 414-739-9705	Email Ray@GlacierConcepts.com
Dwelling Contractor # DC-062000623	Dwelling Contractor Qualifier # DCQ-061900647

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	161 sqft	Addition
		Garage		

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	133.00
Building Board	\$75.00	75.00
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition	\$85.00 minimum plus	\$0.12/sqft
Moving buildings over public ways	\$230.00 plus	\$0.12/sqft
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Work started without permit Double Fee		
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$ 208.00

Applicant Signature  **Date** 10-9-2020

ISSUED PERMITS are available on the Village website under
Services > Permits, Applications, & Licenses > Issued Permits & Licenses > Fox Point GIS.

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.055148

Oct 9, 2020

7057 N Fairchild Cir

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PERMIT	133.00
24-44460 BUILDING PERMIT	

Total:	133.00
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CHECK	Check No: 1215	133.00
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Payor: 7057 N Fairchild Cir

Total Applied:	133.00
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Change Tendered:	.00
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Duplicate Copy

10/09/2020 11:42 AM

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.055148

Oct 9, 2020

7057 N Fairchild Circle

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PLANS - FILING FEE	75.00
24-44440 BUILDING PLANS-FILING FEE	
Total:	75.00
CHECK	75.00
Check No: 1215	
Payor: Glacier Concepts	
Total Applied:	75.00
Change Tendered:	.00

Duplicate Copy

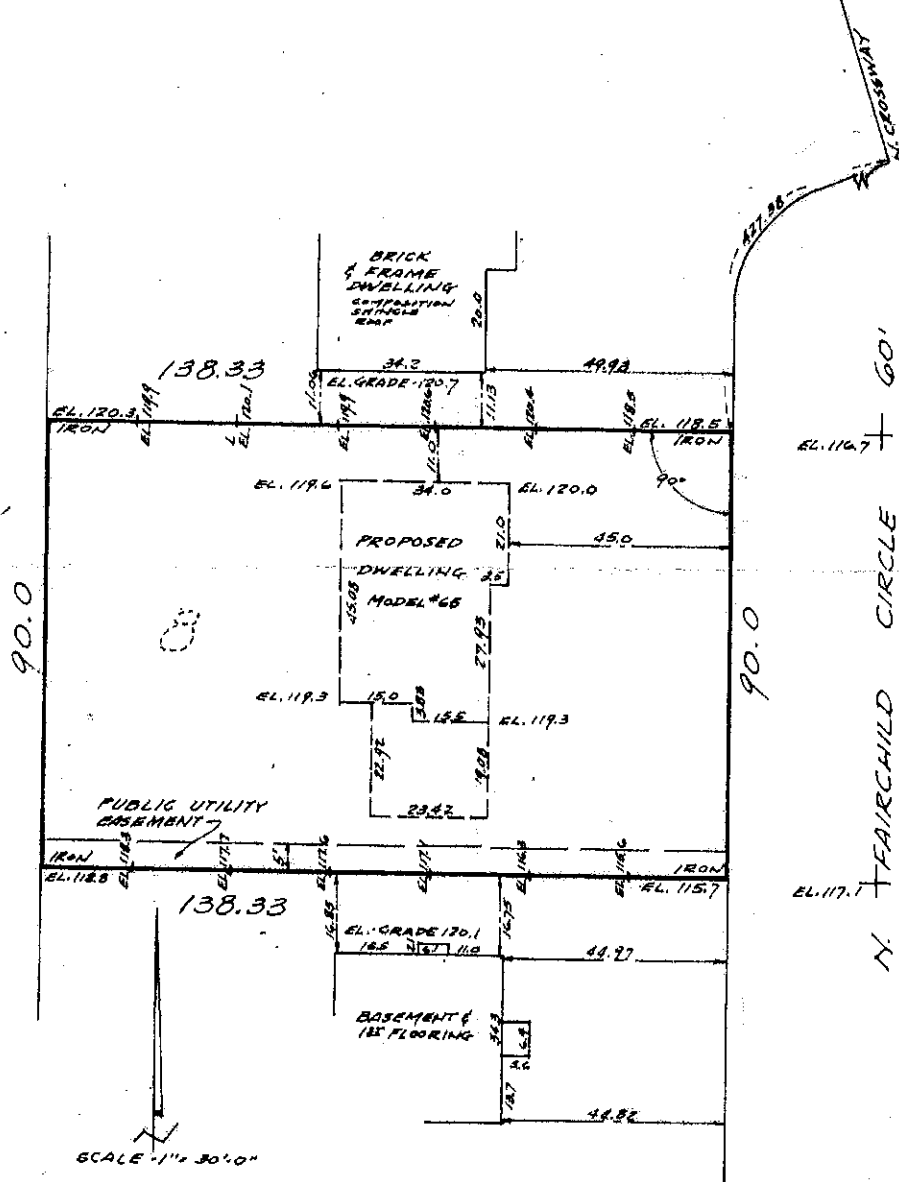
10/09/2020 11:42 AM

Plat of Survey

for
FRED A. MIKKELSON, ARCHITECT
2110 WEST NATIONAL AVENUE
MILWAUKEE, WISCONSIN

Known as 7057 North Fairchild Circle, V of Fox Point, Wisconsin.
Lot 8 in Block 1 in CARL MILLER SUBDIVISION NO. 4, being a part of the
N. E. 1/4 of Section 20 and the N. W. 1/4 of Section 21, T 8 N, R 22 E, in the
Village of Fox Point, Milwaukee County, Wisconsin.
September 22, 1955

Survey No. 70505-S

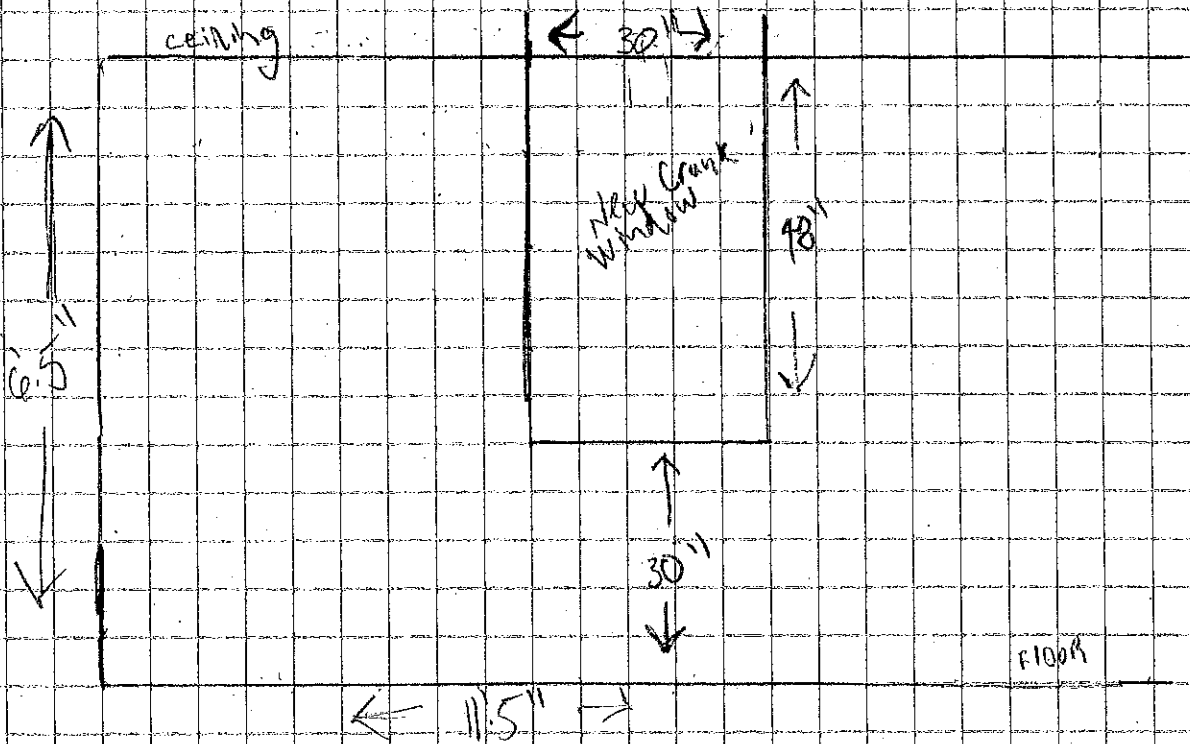


We Certify that we have surveyed the above described property and that the above plat is an accurate survey and a true representation thereof and correctly shows the exterior boundary lines and location of buildings and other improvements on said property and the correct measurements thereof.

NATIONAL SURVEY SERVICE
CIVIL ENGINEERS AND SURVEYORS
3729 W. VLIET ST. BLUEMOUND 8-0230
MILWAUKEE 3, WISCONSIN

Kenneth E. Burke
SURVEYOR





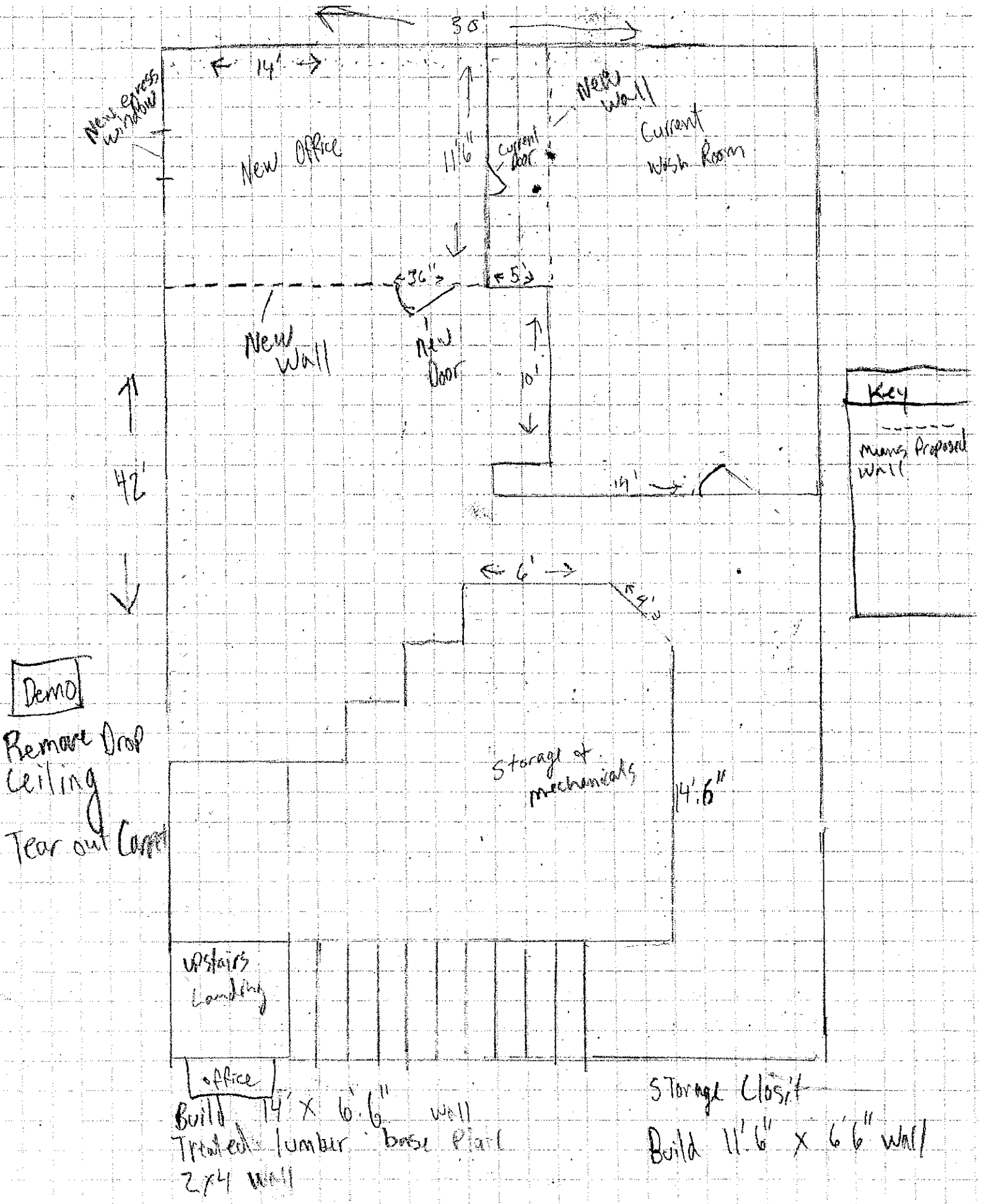
Material: Trufo 2x wrapped on all Brick/Block

Tuck the header in floor Joist

Seal with window tape

Spray foam Insulation

Backfill with Washed Stone
6' in Base



New Express Window

New Office

New Wall

Current Wash Room

Current Door

New Wall

New Door

Key

Means Proposed Wall

Demo

Remove Drop Ceiling
Tear out Carpet

Storage of mechanics

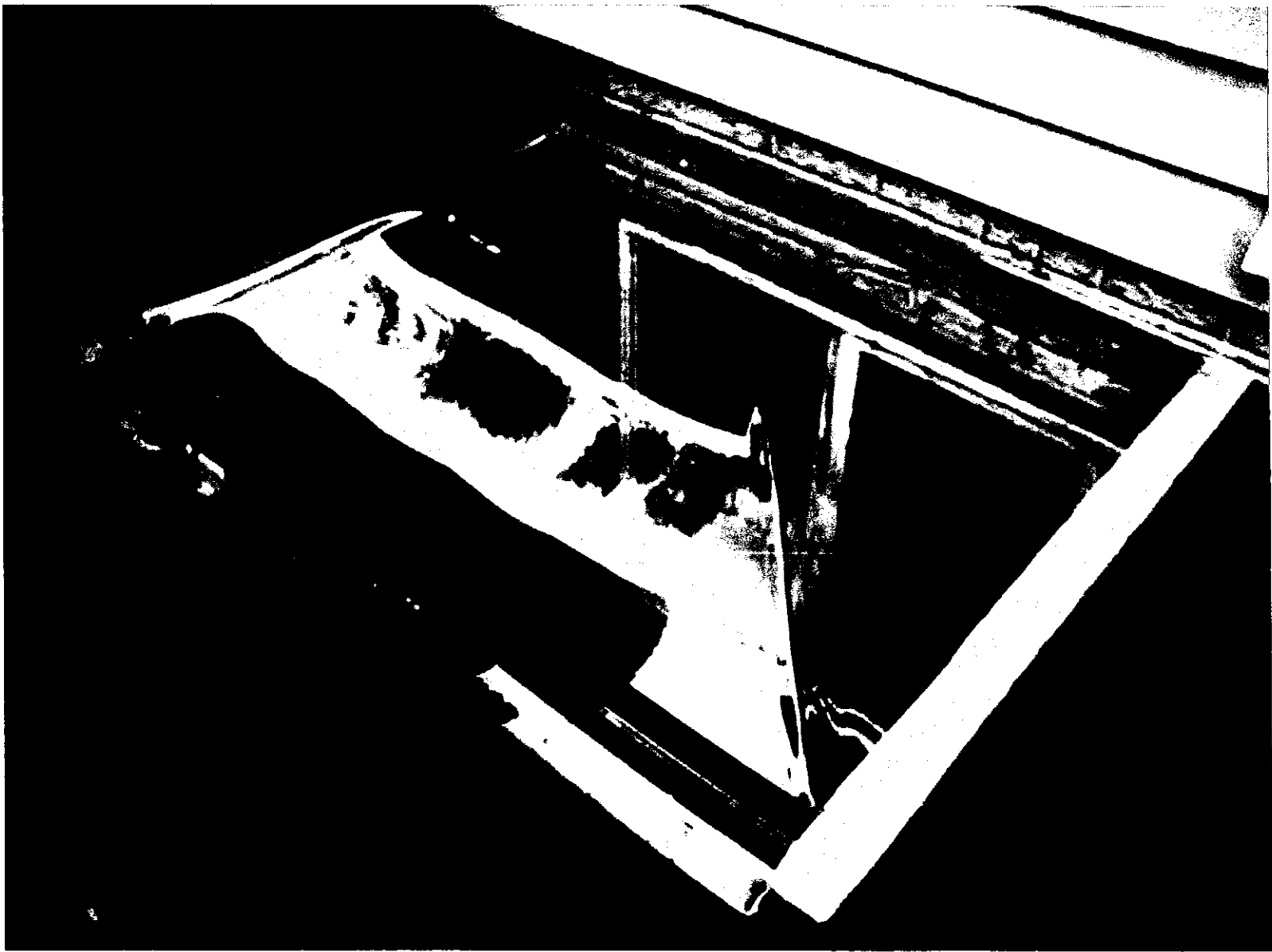
Stairs Landing

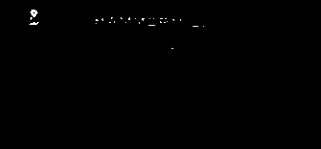
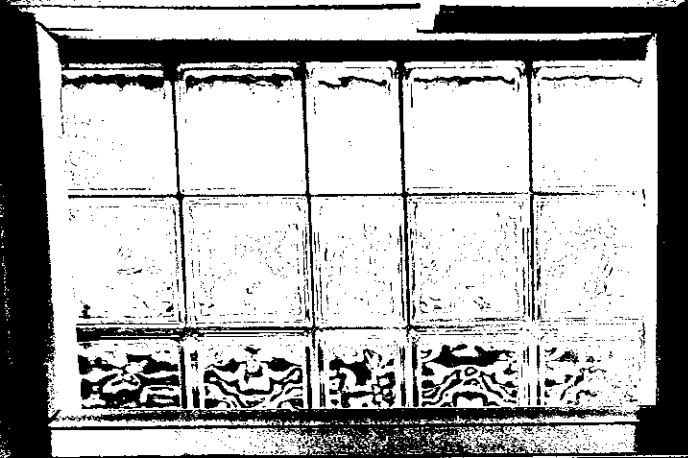
Office

Build 14' x 6'6" wall
Treated lumber base plate
2x4 wall

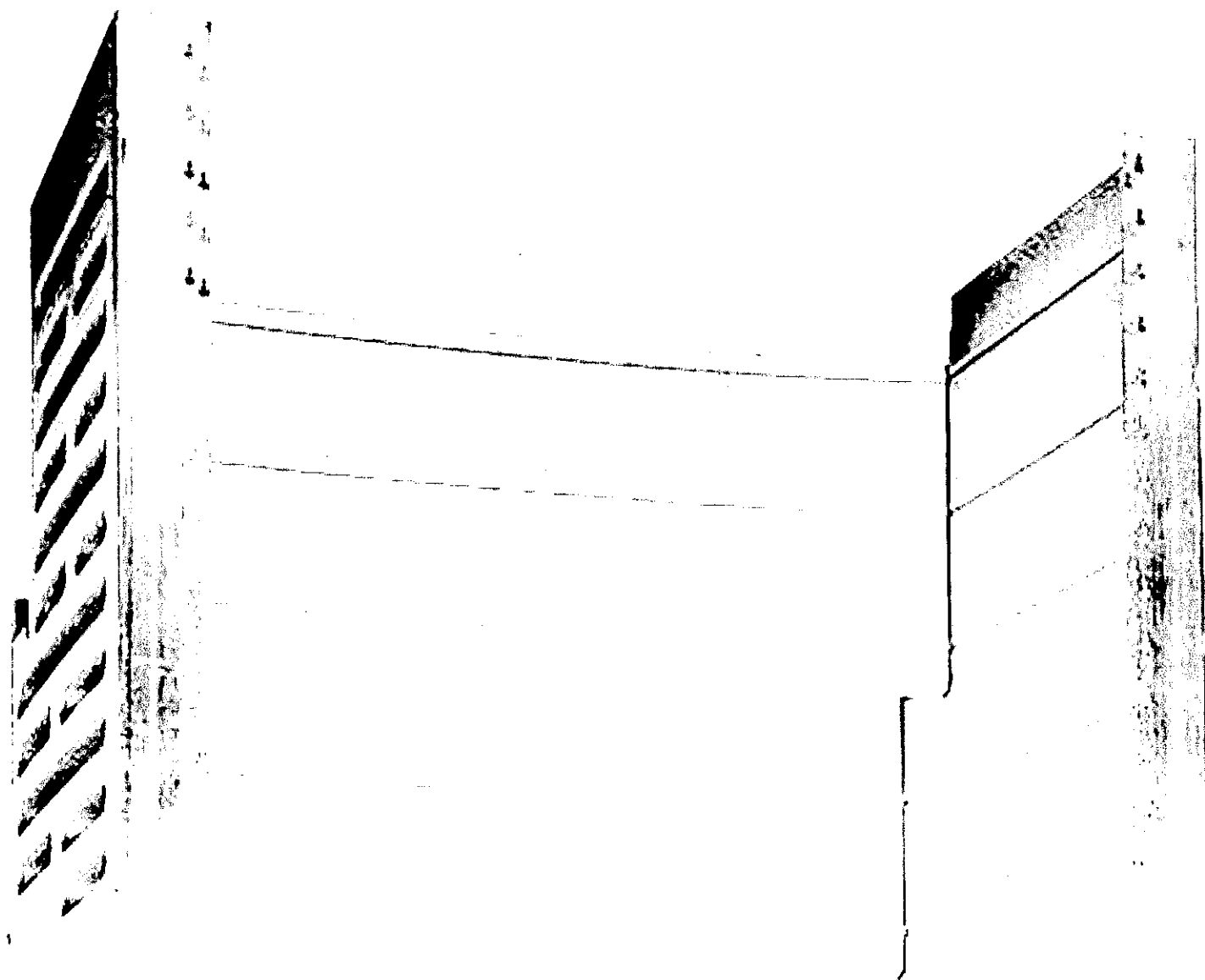
Storage Closet

Build 11'6" x 6'6" wall











VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number: _____

OFFICE USE ONLY
Issuance Date
Zoning <u>C , 60</u>

BUILDING PERMIT

Job Address 308 E. Willow Rd. Fox Point, 53217	Building Type: <u>Residential</u> Commercial
Description of Work	
This project will be improving an existing deck and porch floor by replacing an existing pergola with a covered porch roof, adding to the the deck floor space depth at the center with (2) new posts while using decking to match existing, and improving the flashing at the existing home to prevent interior leaks.	
Estimated Cost of Project \$ 32,000.00	

Owner/Occupant	
Name Terry & Diane McGauran	Business Name n/a
Address 308 E. Willow Rd.	City/State/Zip Fox Point, WI 53217
Phone 414-351-2311	Email dmccgauran@me.com

Cautionary Statement required when homeowner is applying for permit

Contractor	
Company Name Design Group Three, LLC	Contractor Name Design Group Three, LLC
Address 5050 N. Port Washington Rd.	City/State/Zip Glendale, WI 53217
Phone 414-962-5560	Email douglas@designgroupthree.com
Dwelling Contractor # DC-012000025 (exp. 2021-07-31)	Dwelling Contractor Qualifier # DCQ-071300052 (exp 2021-07-31)

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition 182 sq. ft.	Garage

(POOP ONLY)

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	304.00
Building Board	\$75.00	75.00
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition \$85.00 minimum plus	\$0.12/sqft	
Moving buildings over public ways \$230.00 plus	\$0.12/sqft	
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Work started without permit Double Fee		
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$ 379.00

Applicant Signature Douglas Moore Date 10/07/2020

Rev 0619

ISSUED PERMITS are available on the Village website under
Services > Permits, Applications, & Licenses > Issued Permits & Licenses > Fox Point GIS.



VILLAGE OF FOX POINT BUILDING BOARD APPLICATION

Building Board typically meets on the second Wednesday of every month at 5:00 p.m. The application deadline is 12 p.m. on the Friday prior. All applications must be complete and include the proper filling fee.

Examples of projects that must appear before the Building Board: New Construction, Additions, Exterior Improvements, Detached Garage, Decks, Sheds ≥ 100 sq. ft., Window Replacement, New Doors, Patio Doors, Pools, Signs and Solar Systems.

Complete Building Board Applications must include:

- ☒ ~~X~~ **sets of drawings** ^{*Note: (1) set + electronic} to 1/4 inch scale on 24" x 36" maximum size sheets. These shall include all elevations, floor plans, foundation plan, and cross sections.

- **Elevation Drawings** shall include all proposed elevations of the building, even if changes to the elevation are not proposed. This is to ensure consistency of all elevations. In cases where a building element may be skewed from another, it may be necessary to draw more than the four primary elevations of the building to clearly explain the intent of the design. All building elevations must be fully dimensioned to indicate heights above grade for all components. If the project is a building addition or remodeling, the original structure should be clearly illustrated as new building versus existing structure. The complete existing elevation should be shown in all cases of additions and remodeling. All building materials must be identified and noted on each elevation drawing. This is to include, but not limited to, type and size of siding, type and size of masonry, window type size and material, roofing material, fascia, rakes, soffits, eaves, and flashing materials. It is recommended to bring material samples and colors.
- **Dimensioned floor plans** shall include all floor plans of the proposed building. Each plan must include complete dimensions, and include room names for each space. In the case of an addition, each room shall be tagged either existing or new. In the case where there is a detached garage, a separate plan, fully dimensioned, for the garage must be included.

^{*Note: (1) set + electronic}

- ☒ ~~X~~ **sets of color photos** that includes all elevations of existing home and any accessory structures on the property.

^{*Note: (1) existing survey + electronic}

- ☒ ~~X~~ **sets of survey** less than one year old OR accurately showing all buildings. This must include all property lines with distances bearings, North arrow, exact location of all existing and proposed buildings, parking areas, drives, public improvements, easements, and other key features of the site. Show distances from front, rear and side property lines.

- ☒ **Electronic copy of building plans** emailed to mrakow@villageoffoxpoint.com.

- ^{*N/A} ☐ **Site plan** including a North arrow and dimensions. This document must include all property lines, utility, and access easements, zoning setbacks, grades at one foot intervals, exact location of all existing and proposed buildings or additions including roof overhangs, all hard surfaced areas (parking areas, drives, patios, sidewalks, etc.), swimming pools, and other accessory structures.

- ^{*N/A} ☐ **Open area** calculation required for New Construction, Additions, and Accessory Structures. ^{*Note: Legal non-conforming}

- ^{*N/A} ☐ **Existing and proposed grades** submitted to engineering before building board meeting.

- ☒ **Completed building permit application.**

- ☒ **Building board fee of \$75.00** paid to the Village of Fox Point.

*Per meeting with Mike Rakow
on 9/22/2020

A REPRESENTATIVE MUST ATTEND BUILDING BOARD MEETING.

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.055140

Oct 7, 2020

308 E Willow

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PERMIT	304.00
24-44460 BUILDING PERMIT	
Total:	304.00
CHECK	304.00
Check No: 29088	
Payor: 308 E Willow	
Total Applied:	304.00
Change Tendered:	.00

10/07/2020 3:47 PM

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1,055141

Oct 7, 2020

308 E Willow

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PLANS - FILING FEE	75.00
24-44440 BUILDING PLANS-FILING FEE	

Total:	75.00
--------	-------

CHECK	Check No: 29088	75.00
Payor: 308 E Willow		

Total Applied:	75.00
----------------	-------

Change Tendered:	.00
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10/07/2020 3:48 PM



SOUTH ELEVATION





NORTH ELEVATION



EAST ELEVATION



WEST ELEVATION





GARAGE



CLIENT APPROVAL:

SIGNATURE

SIGNATURE

DATE

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Porch Remodel for:

Terry & Diane McGauran
308 E. Willow Rd.
Fox Point, WI 53217

DRAWN BY:

D. Moore

DATE: 09 / 30 / 2020

SHEET NO.:

A-1
1 OF 7

Scope
of work

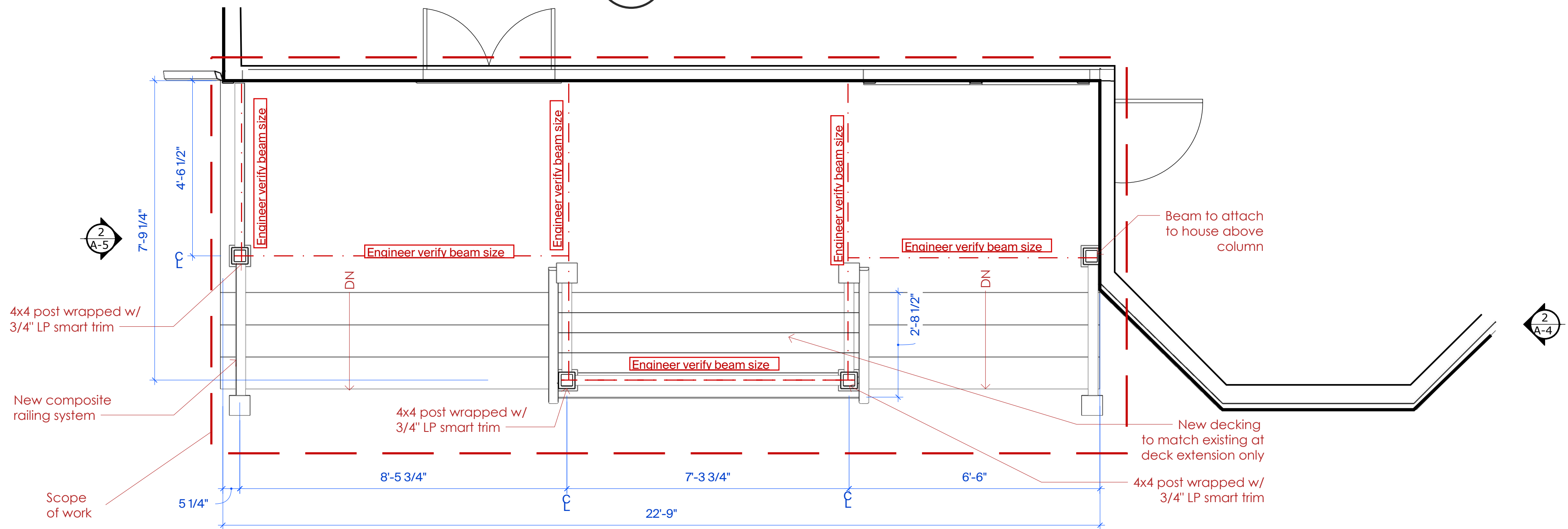
Remove pergola and roof structure
as needed

Remove stair framing
as needed @ deck platform extension

Existing decking, floor & stair framing
to remain

Existing/Demo Plan

1/2" = 1'-0"



Plan

1/2" = 1'-0"

CLIENT APPROVAL:

SIGNATURE

SIGNATURE

DATE

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Porch Remodel for:

Terry & Diane McGauran
308 E. Willow Rd.
Fox Point, WI 53217

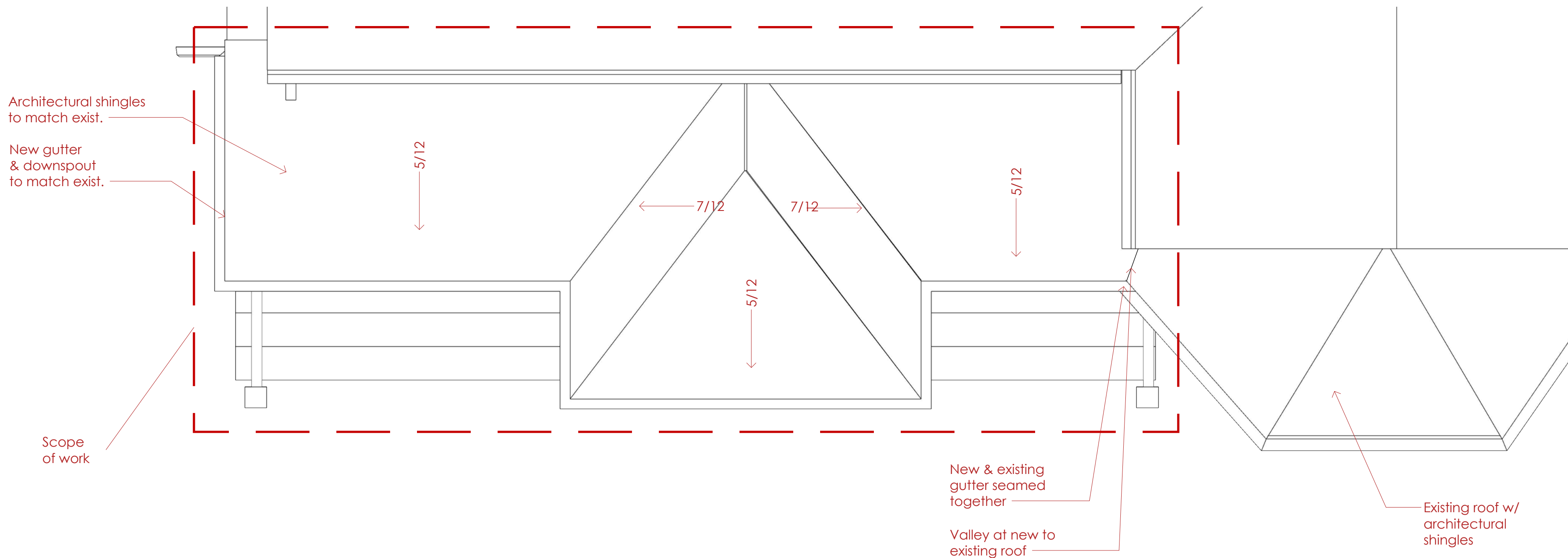
DRAWN BY:

D. Moore

DATE: 09 / 30 / 2020

SHEET NO.:

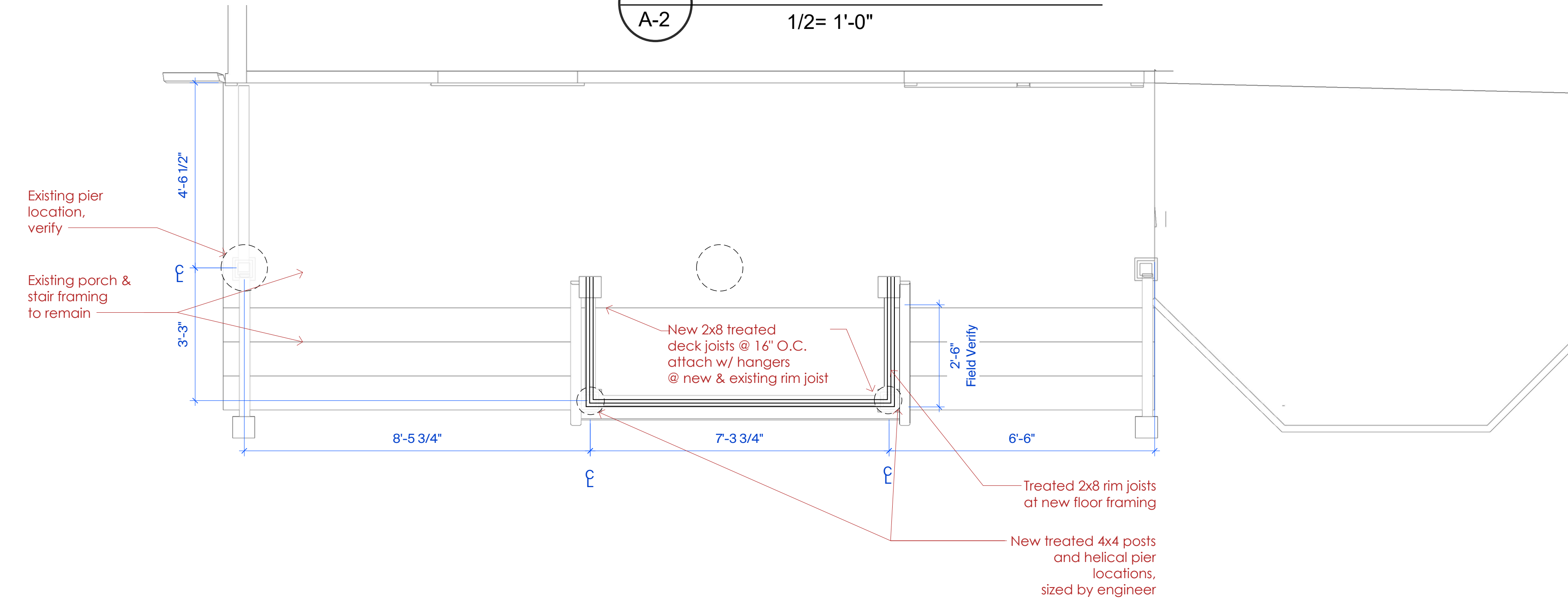
A-2
2 OF 7



1
A-2

Roof Plan

1/2= 1'-0"

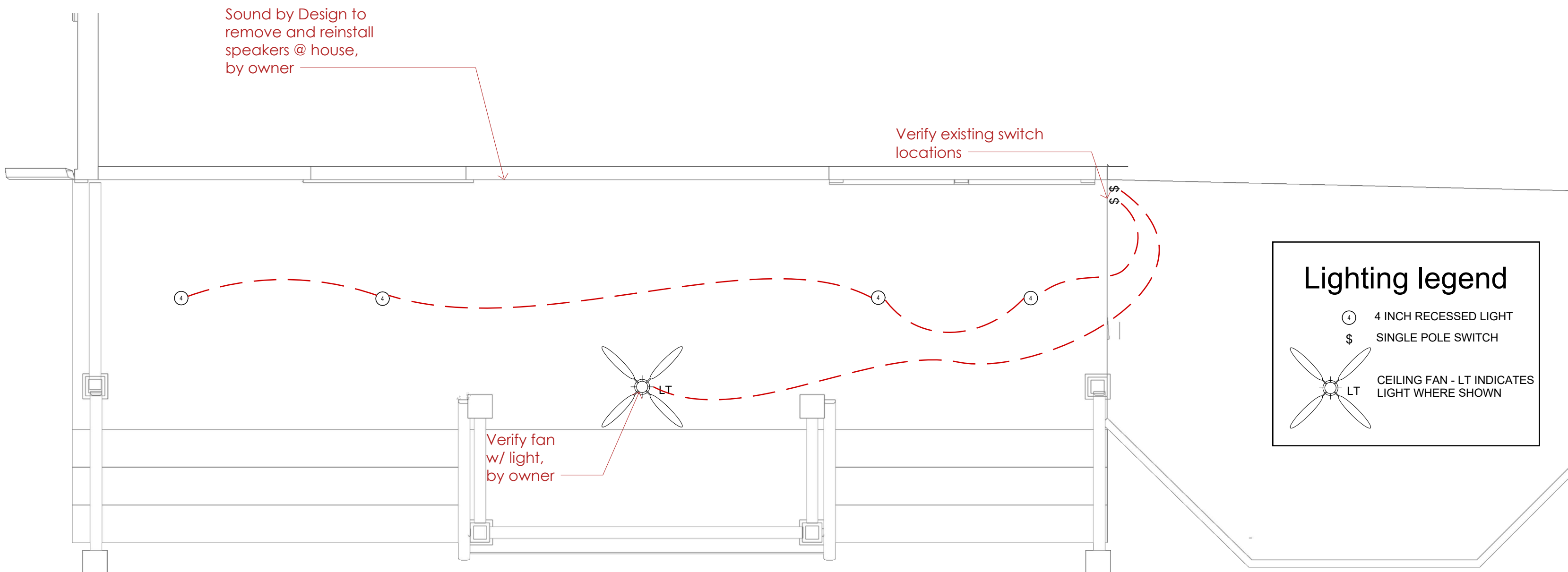


2
A-2

Foundation / Floor Framing Plan

1/2= 1'-0"





Lighting legend

④ 4 INCH RECESSED LIGHT

\$ SINGLE POLE SWITCH

LT CEILING FAN - LT INDICATES LIGHT WHERE SHOWN

1
A-3

Electrical Plan

1/2= 1'-0"



ARCHITECTURE
RENOVATION
CONSTRUCTION

5050 N. Port Washington Rd.
Milwaukee, WI 53217
414.962.5560
designgroupthree.com

CLIENT APPROVAL:

SIGNATURE _____

SIGNATURE _____

DATE _____

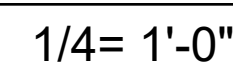
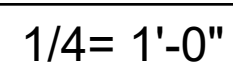
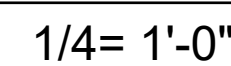
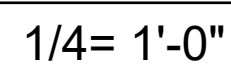
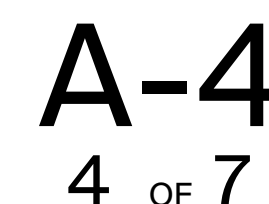
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Porch Remodel for:
Terry & Diane McGauran
308 E. Willow Rd.
Fox Point, WI 53217

DRAWN BY:
D. Moore

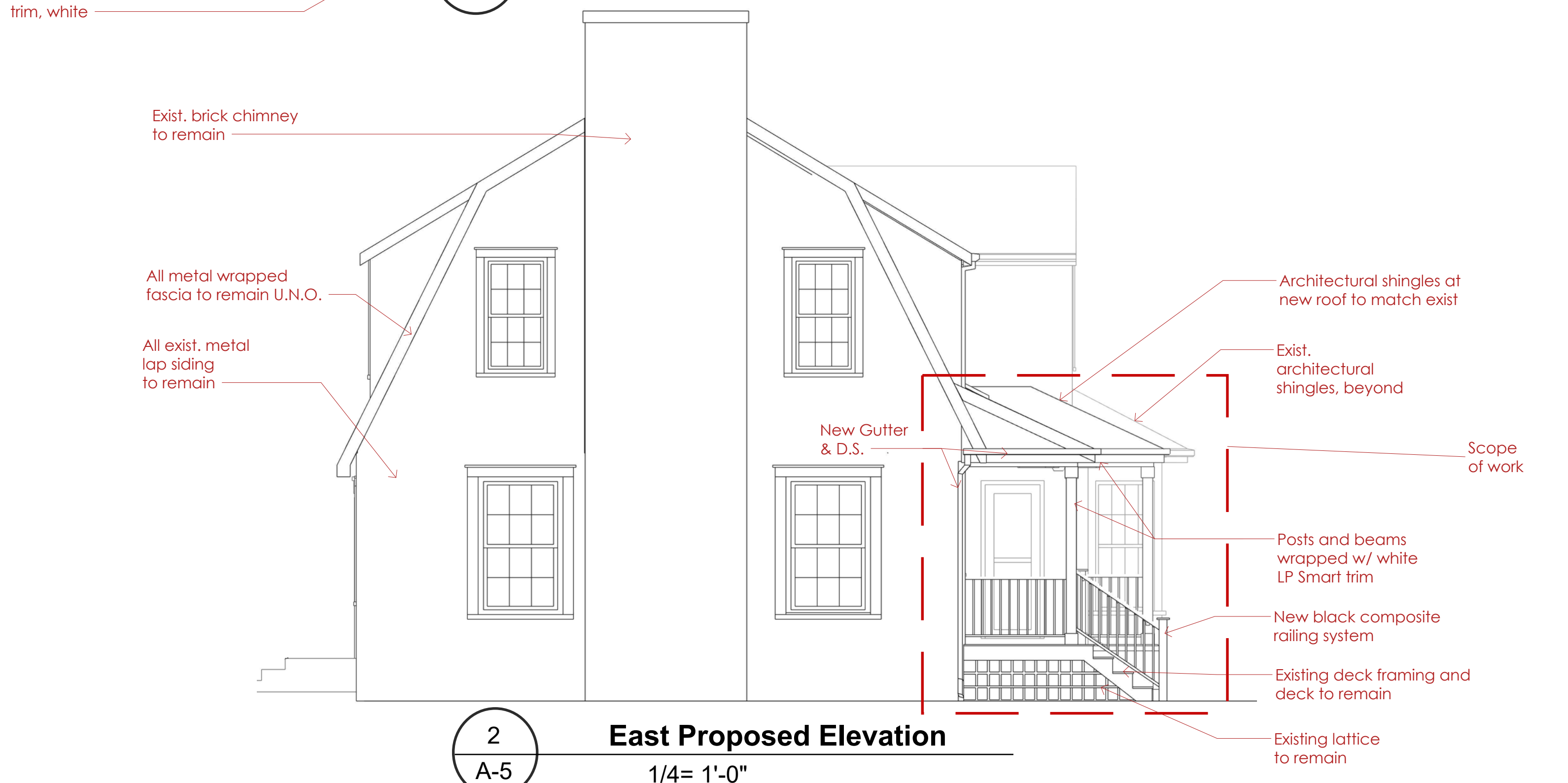
DATE: 09 / 30 / 2020

SHEET NO.:
A-3
3 OF 7



- Remove roof as needed
- Remove exist. trellis & pergola

- Existing framing, stairs, and decking to remain
- Existing lattice below deck to remain



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SIGNATURE _____
DATE _____

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Porch Remodel for:
Terry & Diane McGauran
308 E. Willow Rd.
Fox Point, WI 53217

DRAWN BY:
D. Moore

DATE: 09 / 30 / 2020

SHEET NO.:
A-5
5 OF 7

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SIGNATURE

SIGNATURE

DATE

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Porch Remodel for:

Terry & Diane McGauran

308 E. Willow Rd.

Fox Point, WI 53217

DRAWN BY:
D. Moore

DATE: 09 / 30 / 2020

SHEET NO.:

A-6
6 OF 7





1
A-7

View 2



ARCHITECTURE
RENOVATION
CONSTRUCTION

5050 N. Port Washington Rd.
Milwaukee, WI 53217
414.962.5560
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SIGNATURE

DATE

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Porch Remodel for:

Terry & Diane McGauran

308 E. Willow Rd.

Fox Point, WI 53217

DRAWN BY:

D. Moore

DATE: 09 / 30 / 2020

SHEET NO.:

A-7
7 OF 7

MILTON H. SCHMIDT, Pres.
CLARENCE H. DIEPENBURG, Vice-Pres.
JAMES A. EIDE, Sec.-Treas.

BADGER SURVEYING CO., INC.

PHONE CONCORD 4-2792
823 W. ATKINSON AVE.
MILWAUKEE 6, WIS.

PLAT OF SURVEY

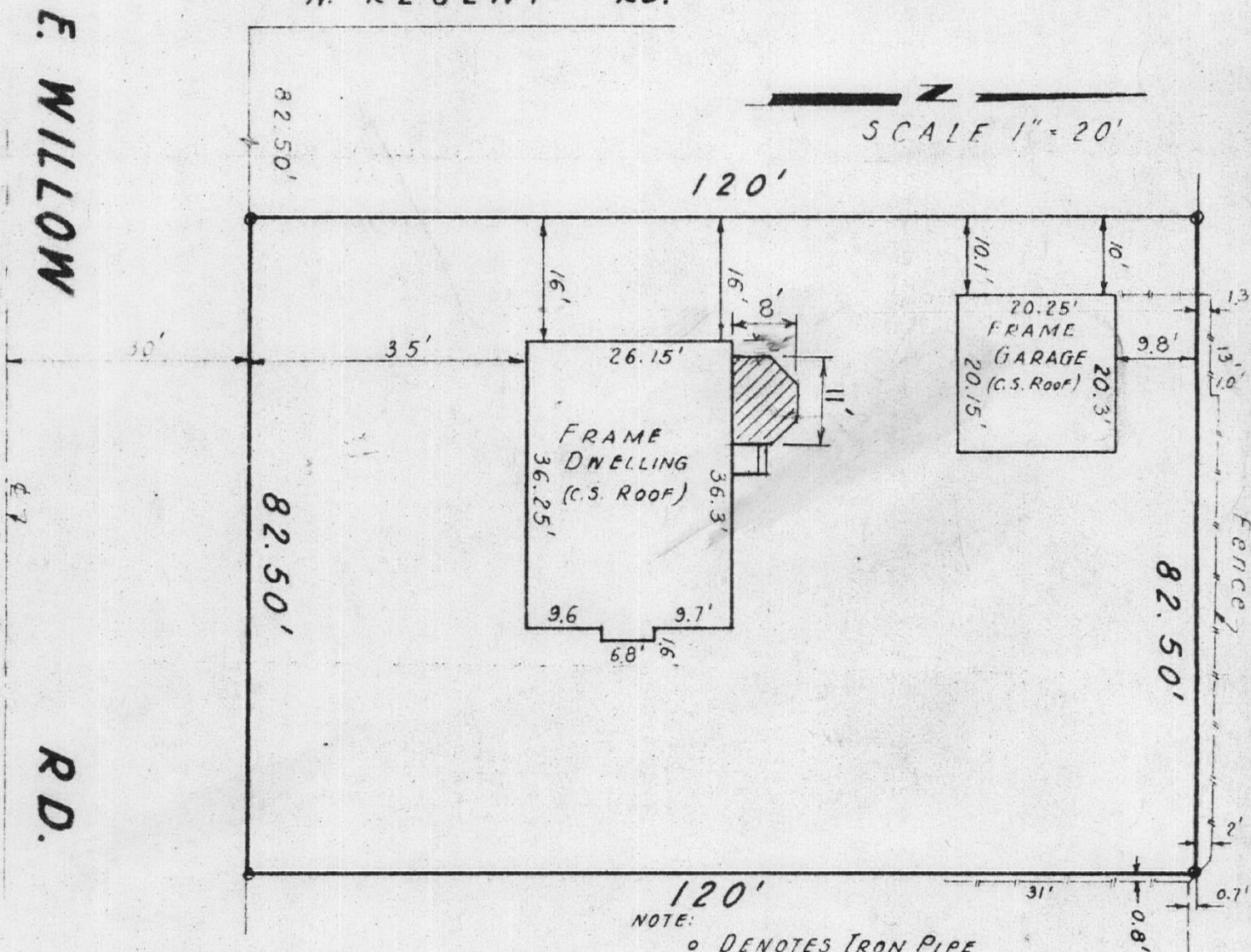
Property at 308 E. Willow Road

Philip E. Dakin - Owner

Legal Description: Lot 17, Block 5, Fox Point Gardens, being a part of the South West 1/4 of Section 9, Township 8 North, Range 22 East, in the Village of Fox Point, County of Milwaukee, and State of Wisconsin.



N. REGENT RD.



Prepared for NORTHERN BANK

State of Wisconsin, ss.
County of Milwaukee

I hereby certify that on the 2ND day of JULY 1954, I have surveyed the property described above according to the official records and that the above plat is a correct representation of the boundary lines and measurements of all buildings and other structures thereon.

Plat No. 54-750

Signed James A. Eide
Surveyor

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:**OFFICE USE ONLY**

Issuance Date

Zoning B, 75

BUILDING PERMIT

Job Address 8517 NORTH REGENT ROAD, FOX POINT 53217	Building Type: Residential - Commercial
Description of Work 4 SEASON SUNROOM [21' WIDE X 12' PROJECTION]	
Estimated Cost of Project \$52,768.16	

Owner/Occupant	
Name MICHAEL & TAMMI SAVIC	Business Name
Address 8517 NORTH REGENT ROAD	City/State/Zip, FOX POINT 53217
Phone 414-915-6933	Email tammisavic@gmail.com

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name Millennium Windows & Sunrooms	Contractor Name Richard Lass
Address 1376 S 97th St	City/State/Zip West Allis, WI 53214
Phone	Email rich@millenniummke.com
Dwelling Contractor #949988	Dwelling Contractor Qualifier #949989

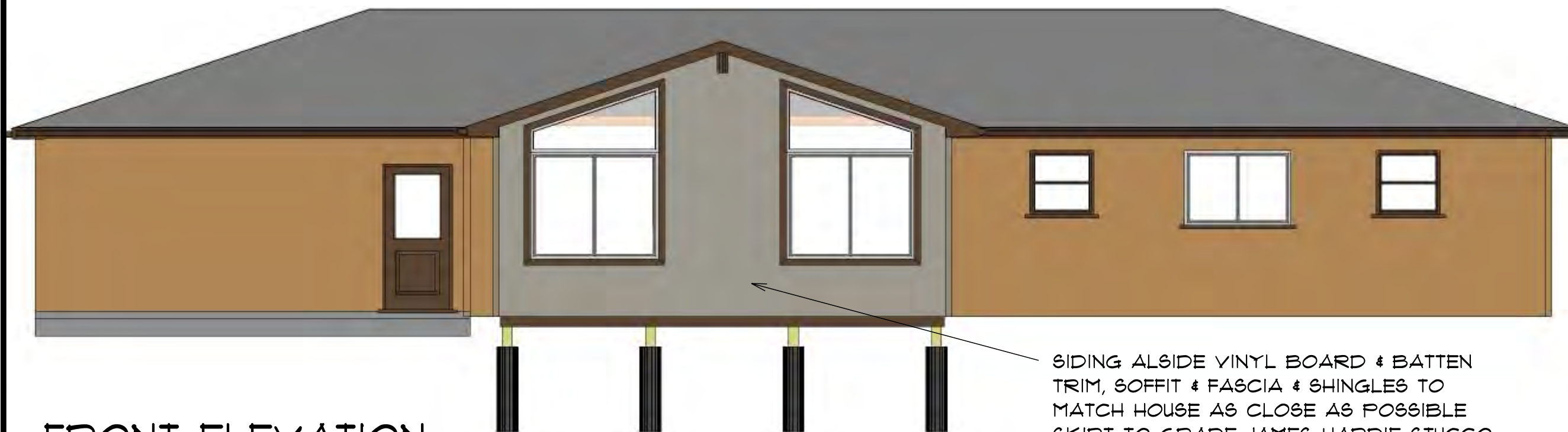
Square Footage Under Construction				
1 st Floor 252sq ft	2 nd Floor	Basement	Addition	Garage

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	502.00
Building Board	\$75.00	75.00
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus per commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition \$85.00 minimum plus	\$0.12/sqft	
Moving buildings over public ways \$230.00 plus	\$0.12/sqft	
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Work started without permit Double Fee		
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature Richard Lass **Date** 10/2/20

Rev 0619

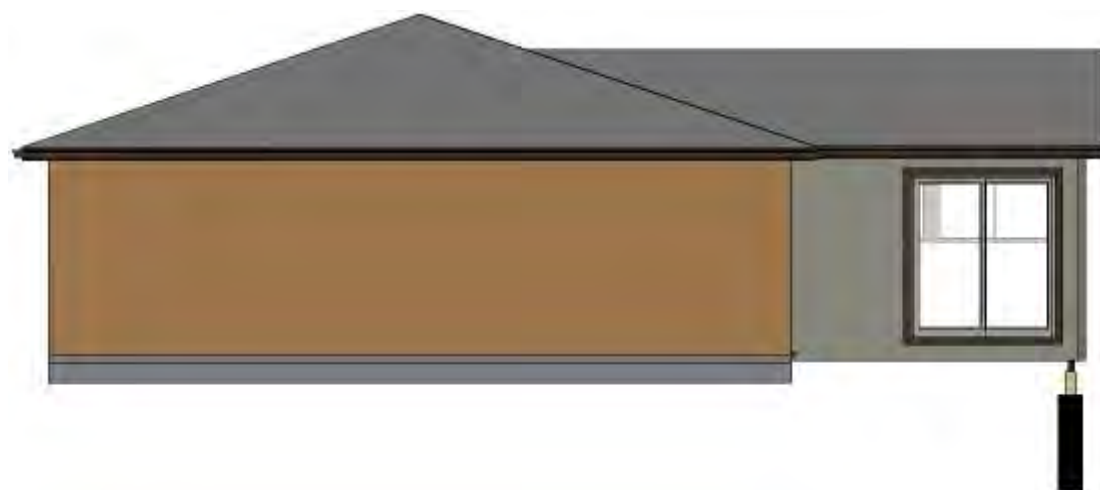
ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**



FRONT ELEVATION

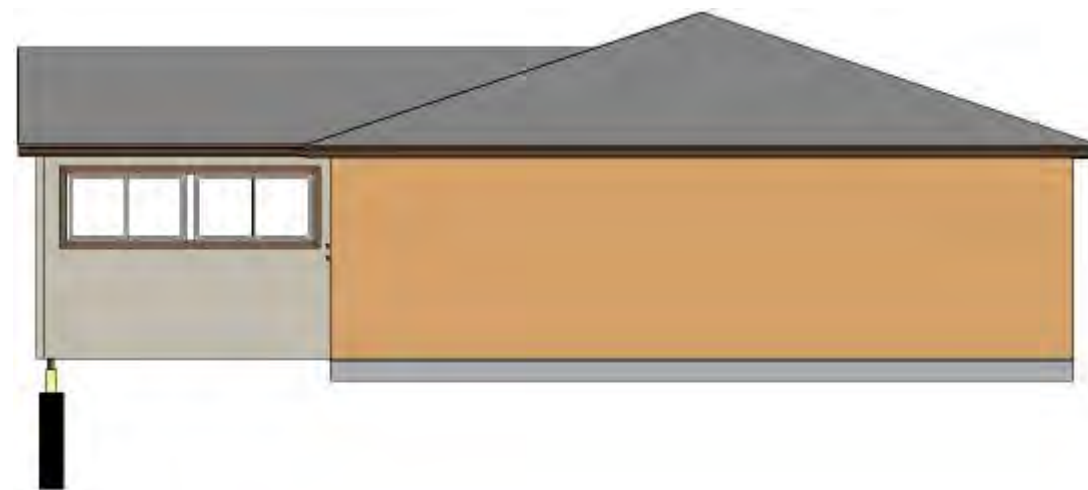
SCALE: 3/16" = 1'-0"

SIDING ALSIDE VINYL BOARD & BATTEN
TRIM, SOFFIT & FASCIA & SHINGLES TO
MATCH HOUSE AS CLOSE AS POSSIBLE
SKIRT TO GRADE JAMES HARDIE STUCCO



LEFT ELEVATION

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



RIGHT ELEVATION

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

MICHAEL & TAMMI SAVIC

8517 North Regent Road PHONE: (414) 915-6933

FOX POINT WI 53217

FAX: tammisavic@gmail.com
MOBILE:

DRAWN BY:

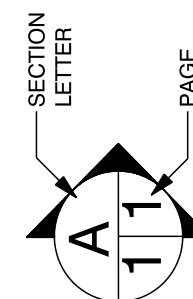
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DATE: Wednesday, September 16, 2020

PAGE:

1/2

ELEVATIONS



SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

Millennium Sunrooms, LLC

License: 949988 PHONE: 262-894-1431

Qualifier: 949989

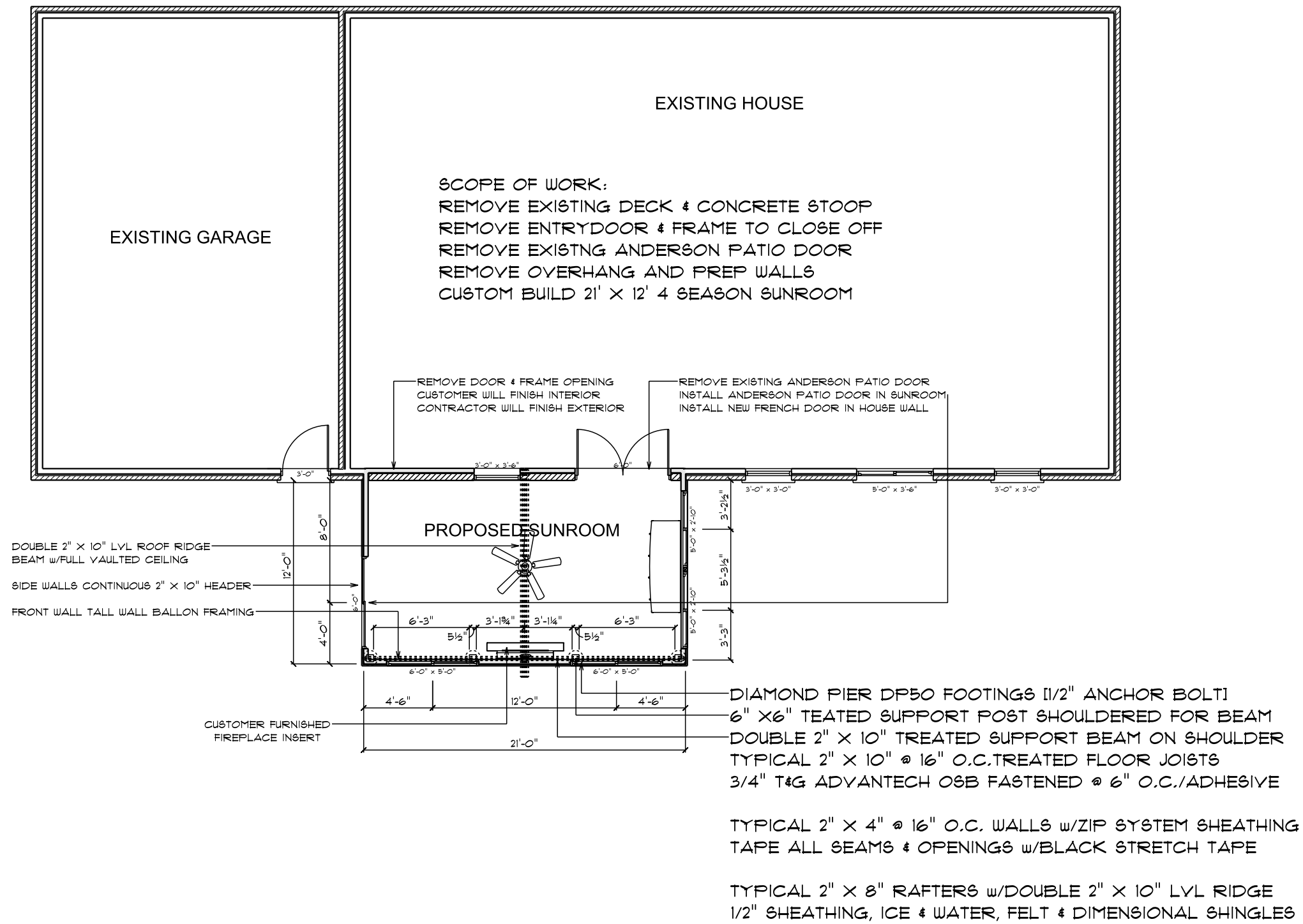
www.millenniummke.com

rich@millenniummke.com

MOBILE:

MAIN FLOOR

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



MICHAEL & TAMMI SAVIC

8517 North Regent Road PHONE: (414) 915-6933

FOX POINT FAX:

WI

53217

MOBILE: tammisavic@gmail.com

DRAWN BY:

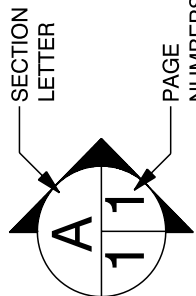
SCALE: 1/8" = 1'-0"

DATE: Wednesday, September 16, 2020

PAGE:

2/2

MAIN FLOOR



SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

Millennium Sunrooms, LLC

License: 949988 PHONE: 262-894-1431

Qualifier: 949989 FAX:

www.millenniummke.com MOBILE:

rich@millenniummke.com

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:**OFFICE USE ONLY**

Issuance Date

Zoning

BUILDING PERMIT

Job Address	Building Type: Residential - Commercial
Description of Work	RESIDENTIAL
GREAT ROOM AND ATTACHED GARAGE ADDITION TO THE WEST SIDE OF THE EXISTING HOME, REMOVE EXISTING DETACHED GARAGE.	
Estimated Cost of Project \$ 500,000	

Owner/Occupant	
Name DAVID SWANSON & TONIT CALAWAY	Business Name
Address 7724 N. BEACH DRIVE	City/State/Zip FOX POINT, WI 53217
Phone 414-870-0841	Email DAVIDC.SWANSON@YAHOO.COM

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name MARK PORRECA	Contractor Name CUSTOM BUILD LLC
Address 125 W. MELVINA ST.	City/State/Zip MILWAUKEE, WI 53212
Phone 414-477-2325	Email M.PORRECA@GMAIL.COM
Dwelling Contractor # 1133073	Dwelling Contractor Qualifier # 1122074

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement 880	Addition 1050	Garage 1206
ATTIC STORAGE				

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	
Building Board	\$75.00	
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition	\$85.00 minimum plus	\$0.12/sqft
Moving buildings over public ways	\$230.00 plus	\$0.12/sqft
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Work started without permit	Double Fee	
	Minimum Fee	\$70.00
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature

Rev 0619

Date 09-29-20**ISSUED PERMITS** are available on the Village website under **PERMITS & LICENSES**



VIEW FROM THE WEST



VIEW FROM THE EAST



VIEW FROM THE SOUTHWEST



VIEW FROM THE NORTHEAST

Calaway-Swanson Residence
7724 North Beach Drive
Fox Point, Wisconsin 53217



VIEW FROM THE NORTHWEST



GARAGE TO BE REMOVED



VIEW FROM BEACH DRIVE



VIEW FROM BEACH DRIVE

Calaway-Swanson Residence
7724 North Beach Drive
Fox Point, Wisconsin 53217

SHEET INDEX:

SHEET NO:	ARCHITECTURAL DRAWINGS:
A-0	SITE PLAN AND PROJECT INFORMATION
A-1	FIRST FLOOR PLAN
A-2	FOUNDATION PLAN AND SECOND FLOOR PLAN
A-3	SOUTH AND WEST ELEVATIONS
A-4	NORTH AND EAST ELEVATIONS
A-5	SECTIONS AND PARTIAL ELEVATIONS

SITE INFORMATION:

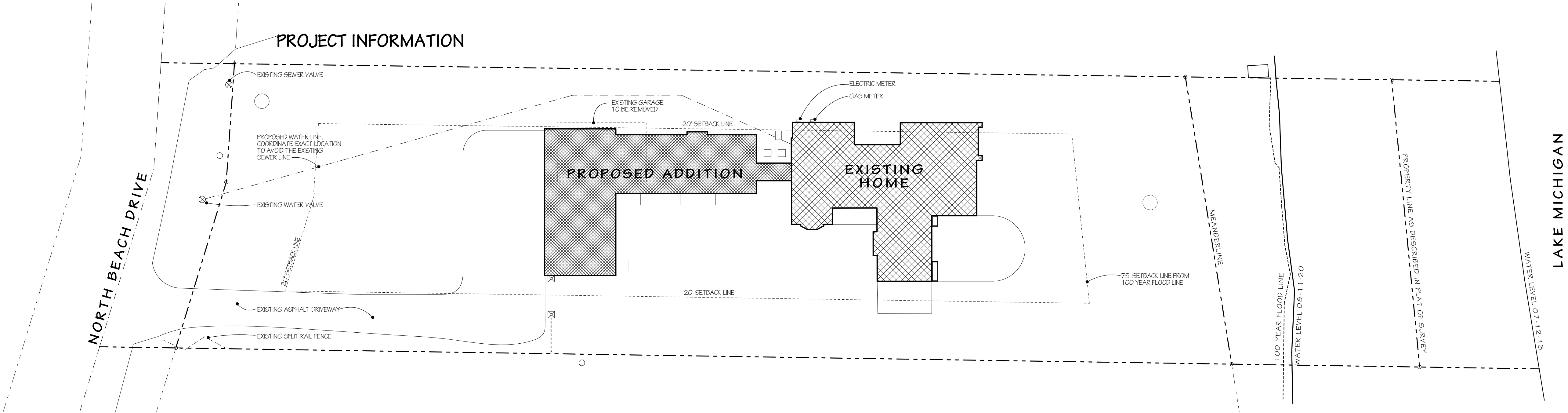
VILLAGE:	FOX POINT
COUNTY:	MILWAUKEE
ZONING:	A-1 (RESIDENTIAL)
BUILDING TYPE:	RESIDENTIAL

LOT AREA BREAKDOWN:

AREA OF LOT (07-12-13 SURVEY)	45,911 S.F.
AREA OF LOT (08-11-20 SURVEY)	38,207 S.F.
AREA OF LOT AS DESCRIBED IN PLAT OF SURVEY (ALL AREAS INCLUDE AREA OF ROAD)	42,173 S.F.
EXISTING HOUSE FOOT PRINT	2,334 S.F.
PROPOSED HOUSE FOOT PRINT	1,050 S.F.
PROPOSED GARAGE FOOT PRINT	1,206 S.F.
TOTAL BUILDING FOOT PRINT	4,590 S.F.
LOT COVERAGE CALCULATION	
PROPOSED BUILDING FOOT PRINT	4,590 S.F.
AREA OF LOT IN PLAT OF SURVEY	42,173 S.F.
LOT COVERAGE	10.9%
REQUEST A MODIFICATION OF OPEN AREA OF 1% FOR A SUBSTANDARD LOT	

BUILDING AREA BREAKDOWN:

EXISTING FIRST FLOOR	2,334 S.F.
EXISTING SECOND FLOOR	1,474 S.F.
TOTAL EXISTING	3,808 S.F.
PROPOSED FIRST FLOOR	1,050 S.F.
PROPOSED GARAGE	1,206 S.F.
PROPOSED ATTIC STORAGE	880 S.F.
TOTAL PROPOSED	3,136 S.F.
TOTAL BUILDING LIVING AREA	4,858 S.F.
BUILDING LIVING AREA	



SITE PLAN
1" = 20'-0"

ADDITION FOR:
CALAWAY-SWANSON RESIDENCE
7724 NORTH BEACH DRIVE
FOX POINT, WISCONSIN 53217

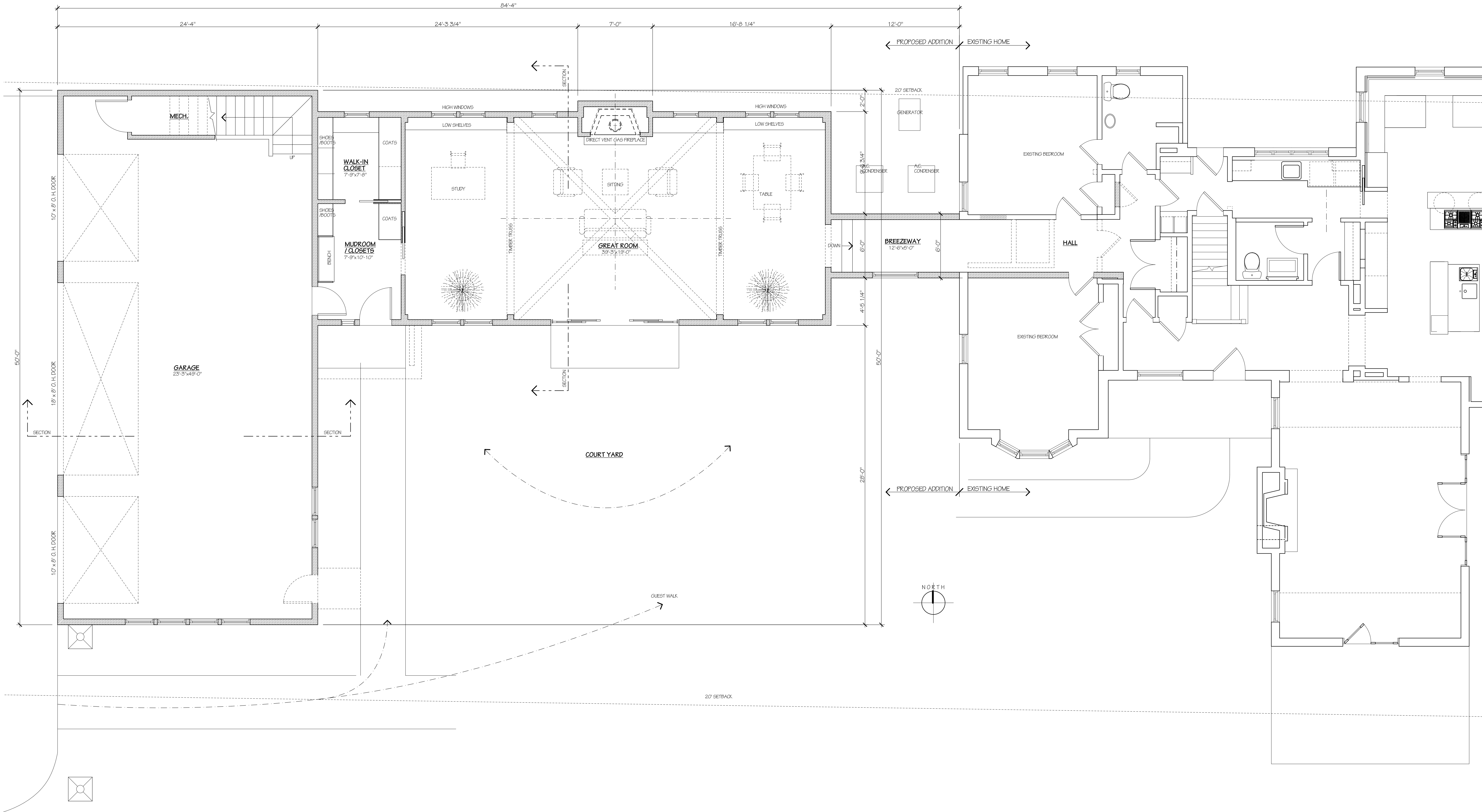
WYDEVEN
ARCHITECTS
7667 West State Street, Suite 303
Wauwatosa, Wisconsin 53213
Phone: 414-614-4677 Email: Bruce@WydevenArchitects.com

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WYDEVEN ARCHITECTS LLC
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PROJECT NO.
2009
DATE
09-25-20

SHEET

A-0



FIRST FLOOR PLAN

1/4" = 1'-0"

PROPOSED & EXISTING PLAN

ADDITION FOR:
CALAWAY-SWANSON RESIDENCE
7724 NORTH BEACH DRIVE
FOX POINT, WISCONSIN 53217

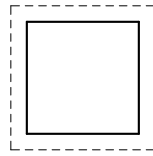
WYDEVEN
ARCHITECTS
7667 West State Street, Suite 303
Wauwatosa, Wisconsin 53213
Phone: 414-614-4677 Email: Bruce@WydevenArchitects.com

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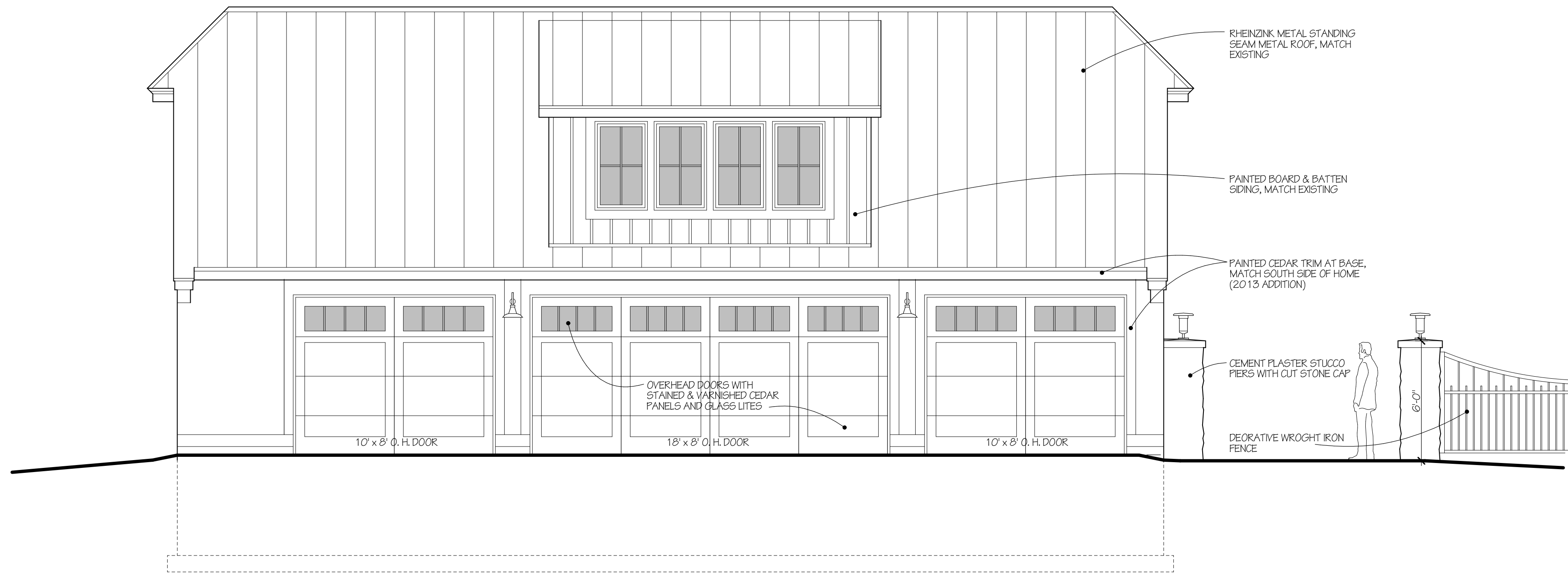
PROJECT NO.
2009
DATE
09-25-20

SHEET

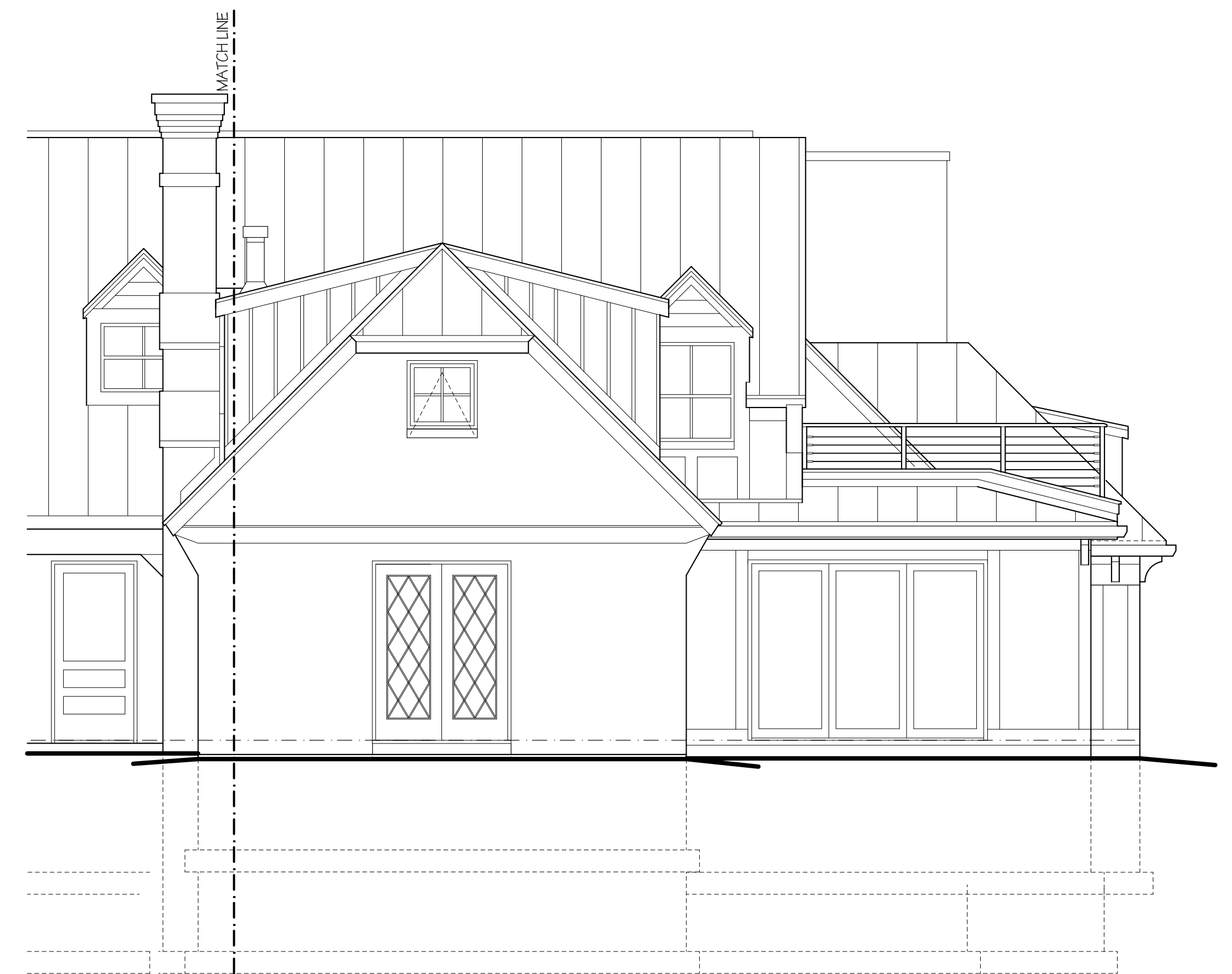
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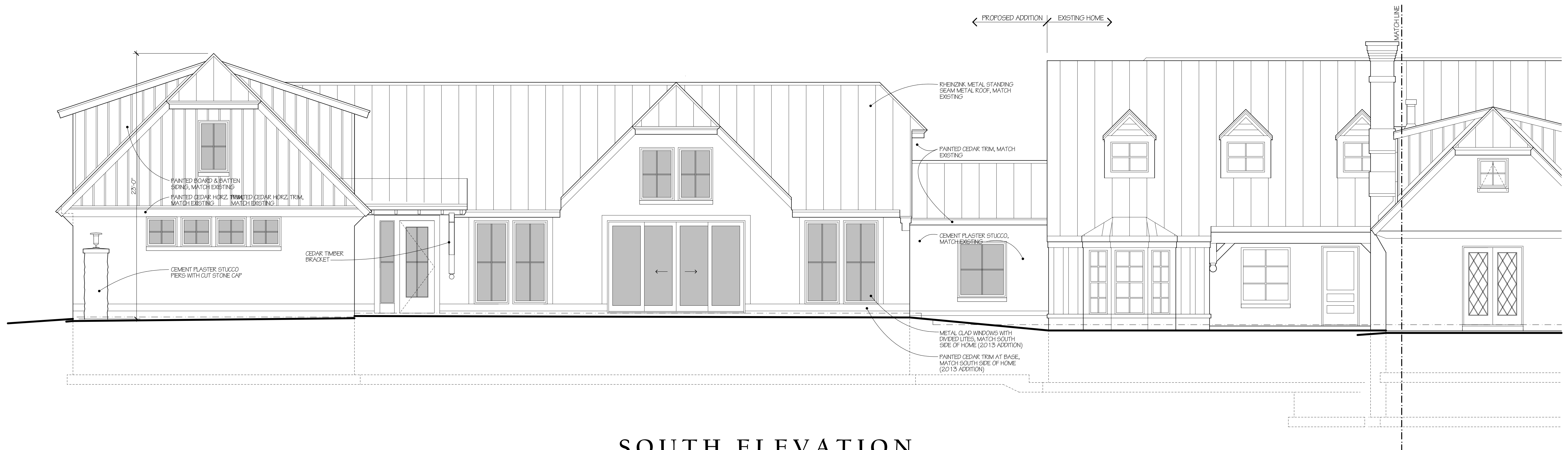
A-1



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



SOUTH ELEVATION - (EAST END)
1/4" = 1'-0"
EXISTING ELEVATION



SOUTH ELEVATION
1/4" = 1'-0"
PROPOSED & EXISTING ELEVATION

ADDITION FOR:
CALAWAY-SWANSON RESIDENCE
7724 NORTH BEACH DRIVE
FOX POINT, WISCONSIN 53217

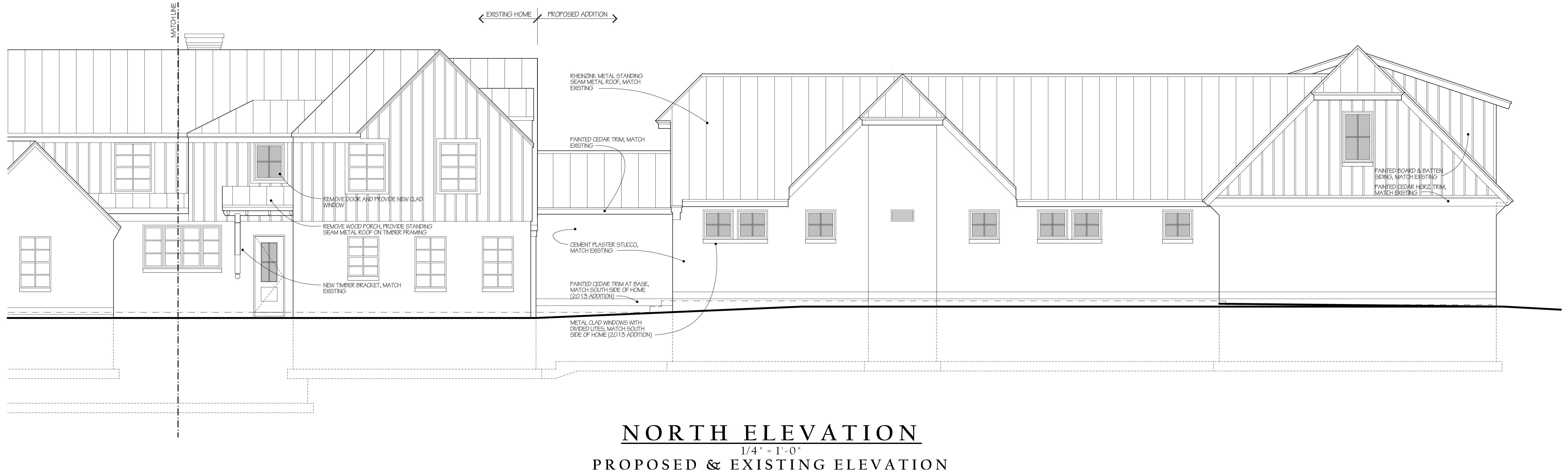
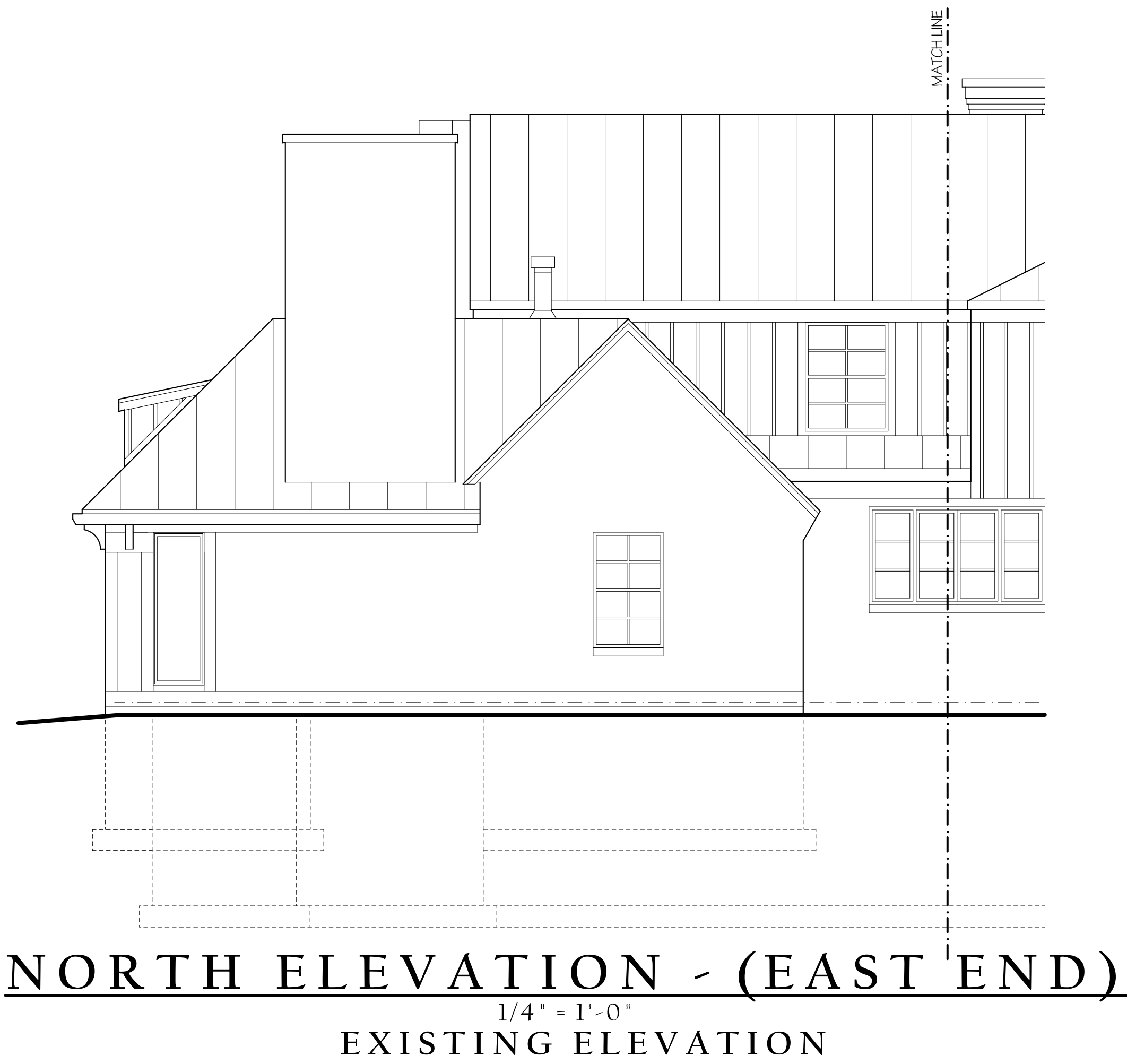
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ARCHITECTS
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Wauwatosa, Wisconsin 53213
Phone: 414-614-4677 Email: Bruce@WydevenArchitects.com

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PROJECT NO.
2009
DATE
09-25-20

SHEET

A-3



ADDITION FOR:
CALAWAY-SWANSON RESIDENCE
7724 NORTH BEACH DRIVE
FOX POINT, WISCONSIN 53217

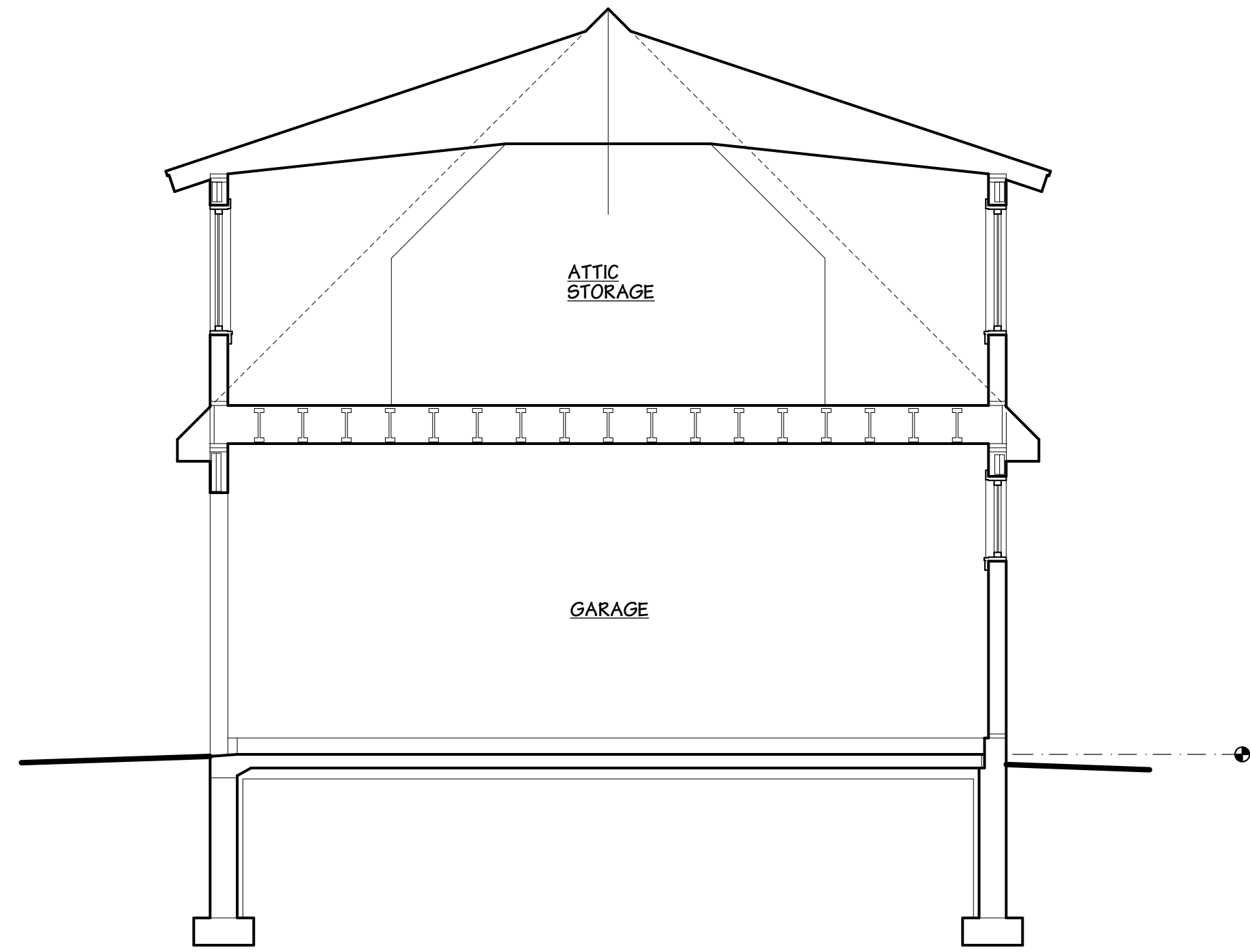
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ARCHITECTS
7667 West State Street, Suite 303
Wauwatosa, Wisconsin 53213
Phone: 414-614-4677 Email: Bruce@WydevenArchitects.com

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PROJECT NO.
2009
DATE
09-25-20

SHEET

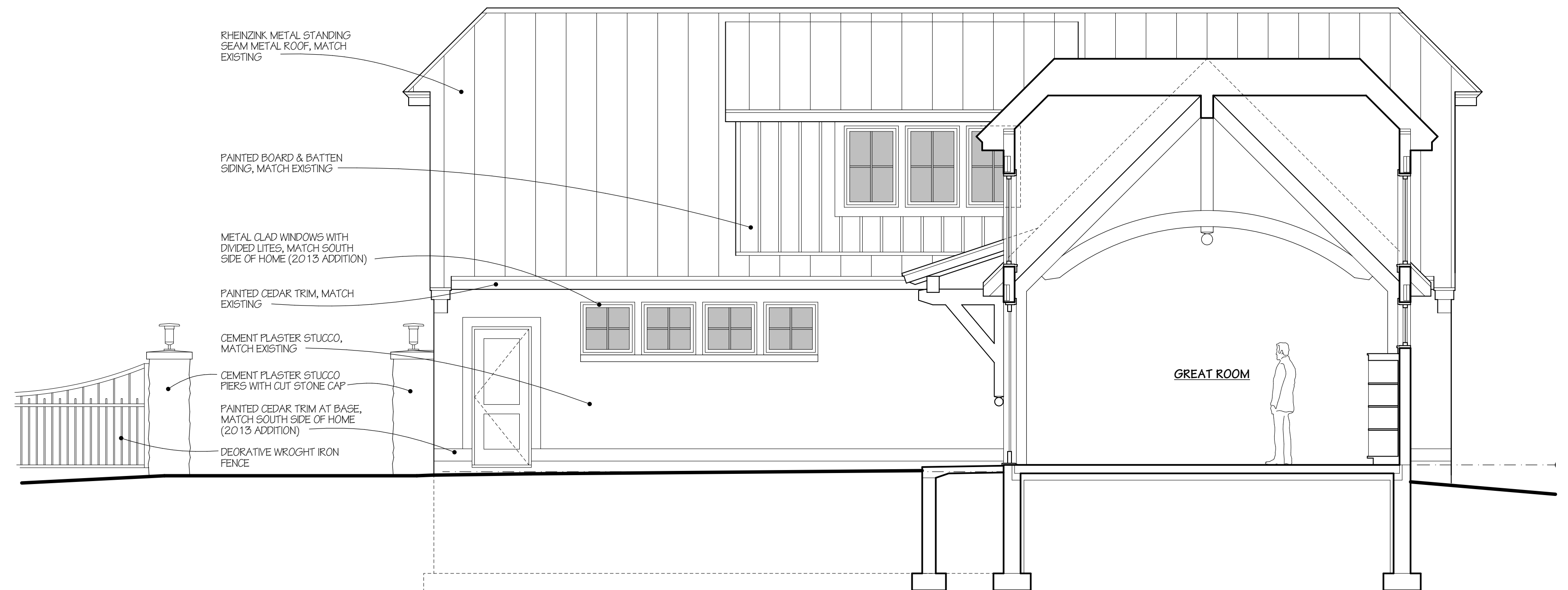
A-4



GARAGE SECTION - (LOOKING NORTH)
 1/4" = 1'-0"
 PROPOSED SECTION



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



SECTION / ELEVATION (LOOKING WEST)
 1/4" = 1'-0"
 PROPOSED SECTION / ELEVATION

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

OFFICE USE ONLY
Issuance Date
Zoning <u>A-3, 30</u>

BUILDING PERMIT

Job Address <u>325 W. NOKOMIS CT.</u>	Building Type: Residential - Commercial
Description of Work	
<u>MASTER SUITE ADDITION AND INTERIOR REMODEL</u>	
Estimated Cost of Project \$ <u>250,000.00</u>	

Owner/Occupant	
Name <u>CHUCK + CATHY PRETTI GIACOMO</u>	Business Name
Address <u>325 W. NOKOMIS CT.</u>	City/State/Zip
Phone <u>44-732-1167</u>	Email

Cautionary Statement required when homeowner is applying for permit

Contractor	
Company Name <u>VINTAGE DESIGN, LLC</u>	Contractor Name <u>same</u>
Address <u>811 W. GREEN TREE RD. 53217</u>	City/State/Zip <u>MILW., WI 53217</u>
Phone <u>44-228-1500</u>	Email <u>steve@vintagedesignllc.com</u>
Dwelling Contractor # <u>664935</u>	Dwelling Contractor Qualifier # <u>664936</u>

Square Footage Under Construction				
1 st Floor <u>APPROX.</u>	2 nd Floor	Basement	Addition <u>500 SQ. FT.</u>	Garage
<u>1800 SQ. FT.</u>				

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	
Building Board	\$75.00	
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		
State Seal	\$65.00	
Razing, Interior Demolition	\$85.00 minimum plus	\$0.12/sqft
Moving buildings over public ways	\$230.00 plus	\$0.12/sqft
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Work started without permit Double Fee		
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature  Date 10/9/20
STEVE SIMON

ISSUED PERMITS are available on the Village website under
Services > Permits, Applications, & Licenses > Issued Permits & Licenses > Fox Point GIS.

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.055147

Oct 9, 2020

325 W Nokomis ct

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PLANS - FILING FEE	75.00
24-44440 BUILDING PLANS-FILING FEE	

Total:	75.00
--------	-------

CHECK	Check No: 7821	75.00
Payor: 325 W Nokomis ct		

Total Applied:	75.00
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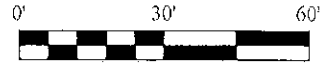
Change Tendered:	.00
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10/09/2020 10:56 AM

Cornerstone Land Surveying, Inc.

Plat of Survey

Scale 1"=30'



Surveyor:

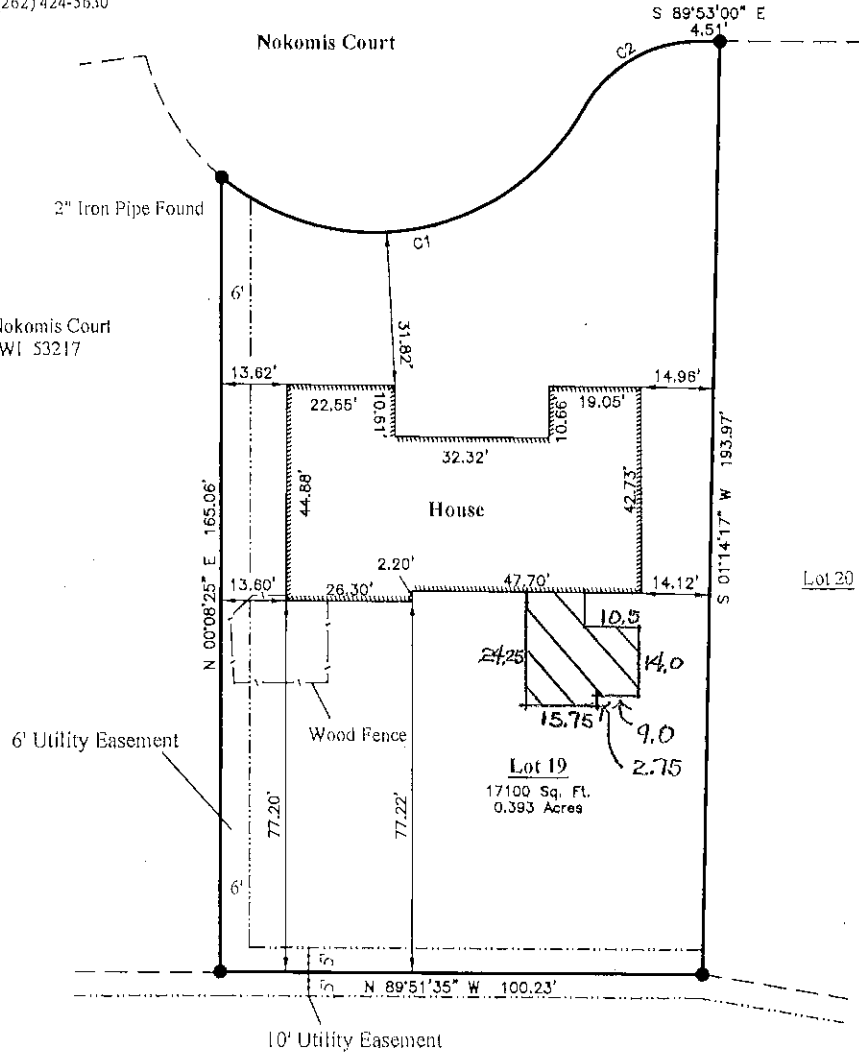
Richard Simon
5080 Fairy Chasm
West Bend, WI 53095
rich@cornerstonelandsurveying.com
(262) 424-5630

Legend:

● Denotes Iron Pipe Found

Address:

325 West Nokomis Court
Fox Point, WI 53217



Curve Data

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	87.70'	50.00'	100°29'34"	N 79°18'44" E	76.88'
C2	29.31'	27.50'	61°03'41"	N 59°03'18" E	27.94'

Description:

All of Lot 19 Indian Creek Parkway, being a subdivision of Vacated Blocks 1, 2, and 4 of the Savings and Investment Association of Milwaukee Subdivision No. 24, and the Interior Streets and Alleys therein, and also a subdivision of Lands located in the Southeast ¼ of Section 8, Township 8 North, Range 22 East, Village of Fox Point, Milwaukee County, Wisconsin.

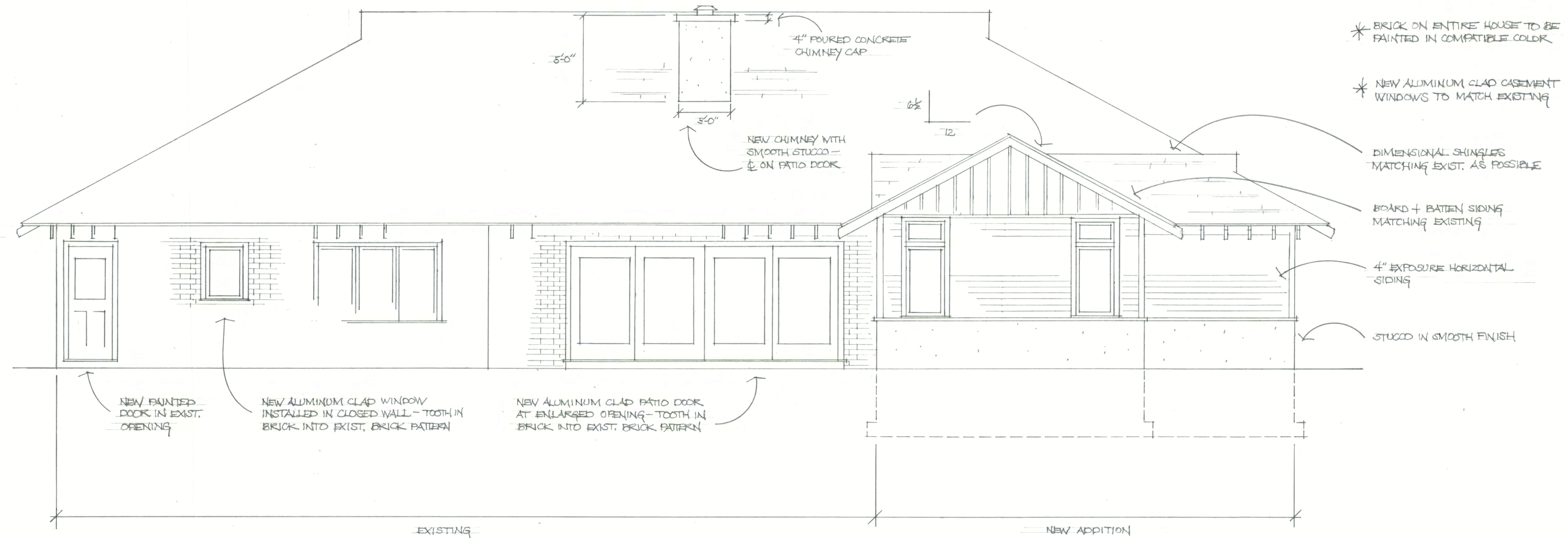
Notes:

- 1) Bearings or Distances in () are Recorded Measurements
- 2) In providing this boundary survey no attempt has been made to obtain or show data concerning the existence of any utility on the site, whether private, municipal, or public owned.
- 3) No Title Policy furnished therefore completeness of easements is not warranted.

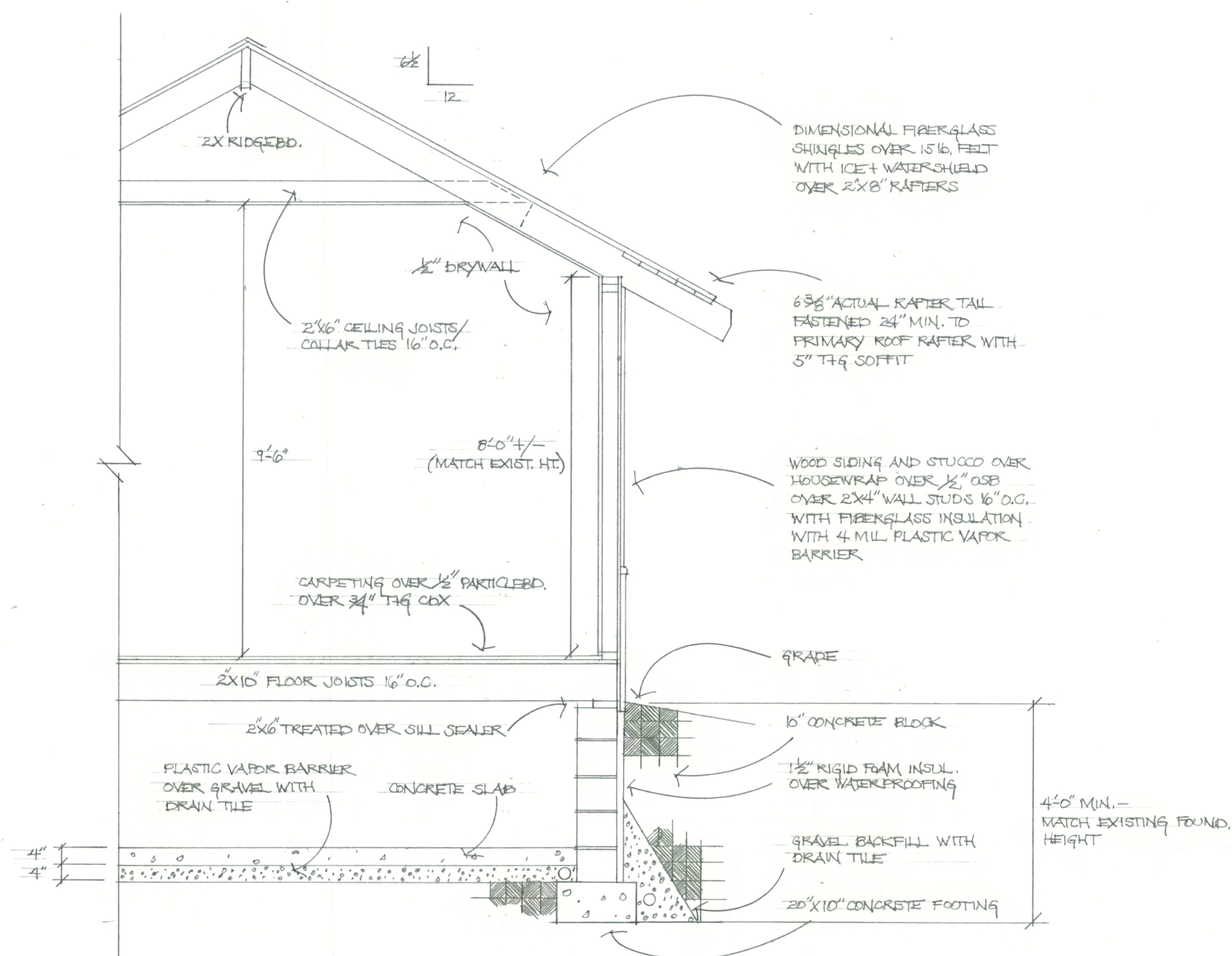
STATE OF WISCONSIN) SS.
COUNTY OF WASHINGTON)

"I HAVE SURVEYED THE ABOVE DESCRIBED PROPERTY ACCORDING TO OFFICIAL RECORDS AND THE ABOVE MAP IS A TRUE REPRESENTATION THEREOF. THIS SURVEY IS MADE FOR THE EXCLUSIVE USE OF THE PRESENT OWNERS OF THE PROPERTY AND ALSO THOSE WHO PURCHASE, MORTGAGE OR GUARANTEE THE TITLE THERETO, WITHIN ONE YEAR FROM THE DATE HERETO."

Survey For: Chuck & Cathy Presto
Dated this 7th day of October, 2020.



South Elevation



Addition Section

Scale: 1/2" = 1'-0"

REVISIONS	BY

steve@vintage
designinc.com



Chuck and Cathy Presto
325 W. Nokomis Ct.
Fox Point, WI

Date	
Scale	
Drawn	
Job	
Sheet	
Of	Sheets

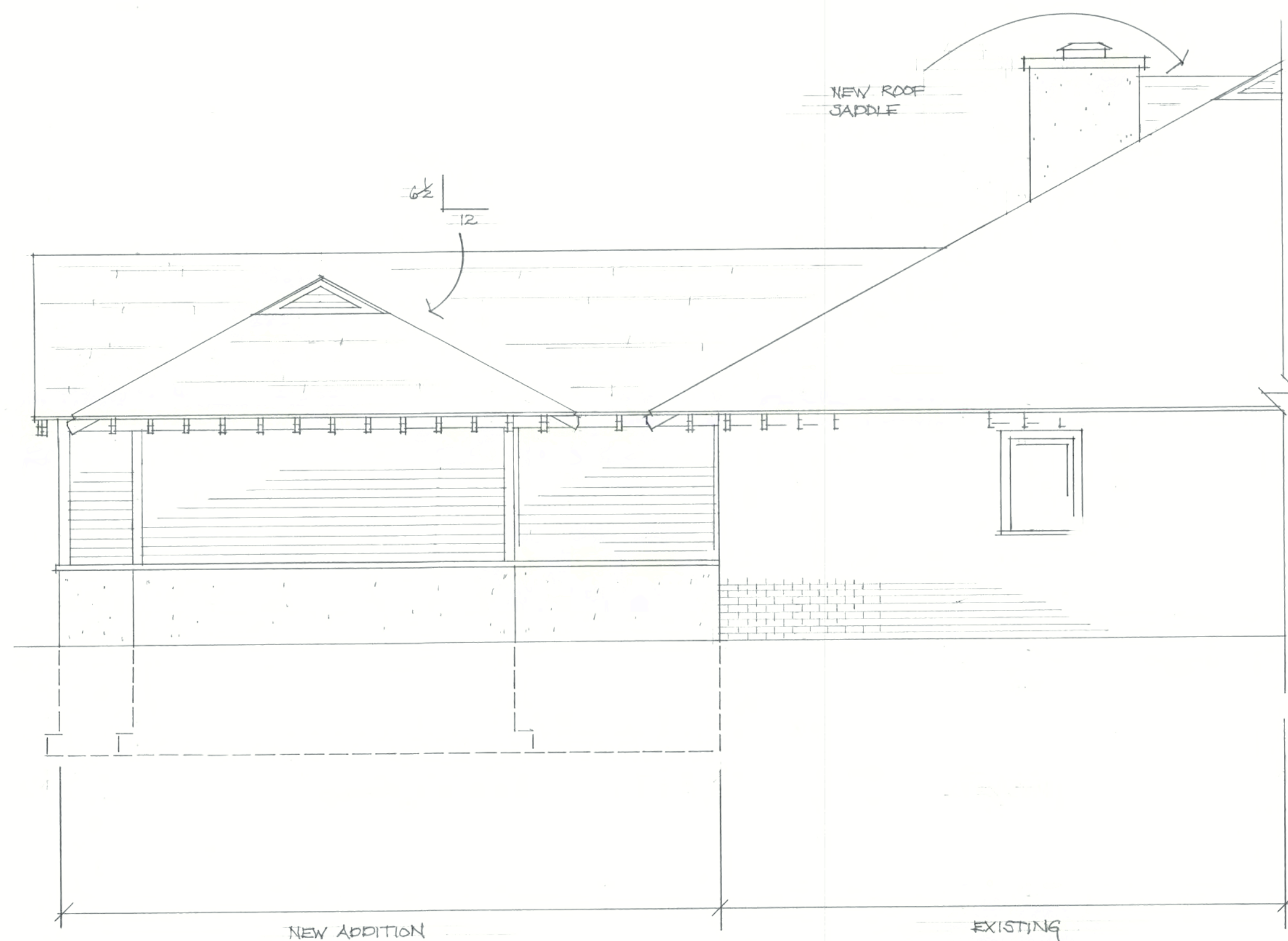
REVISIONS	BY

Vintage Design, LLC
811 W. Green Tree Rd.
Milwaukee, WI 53217

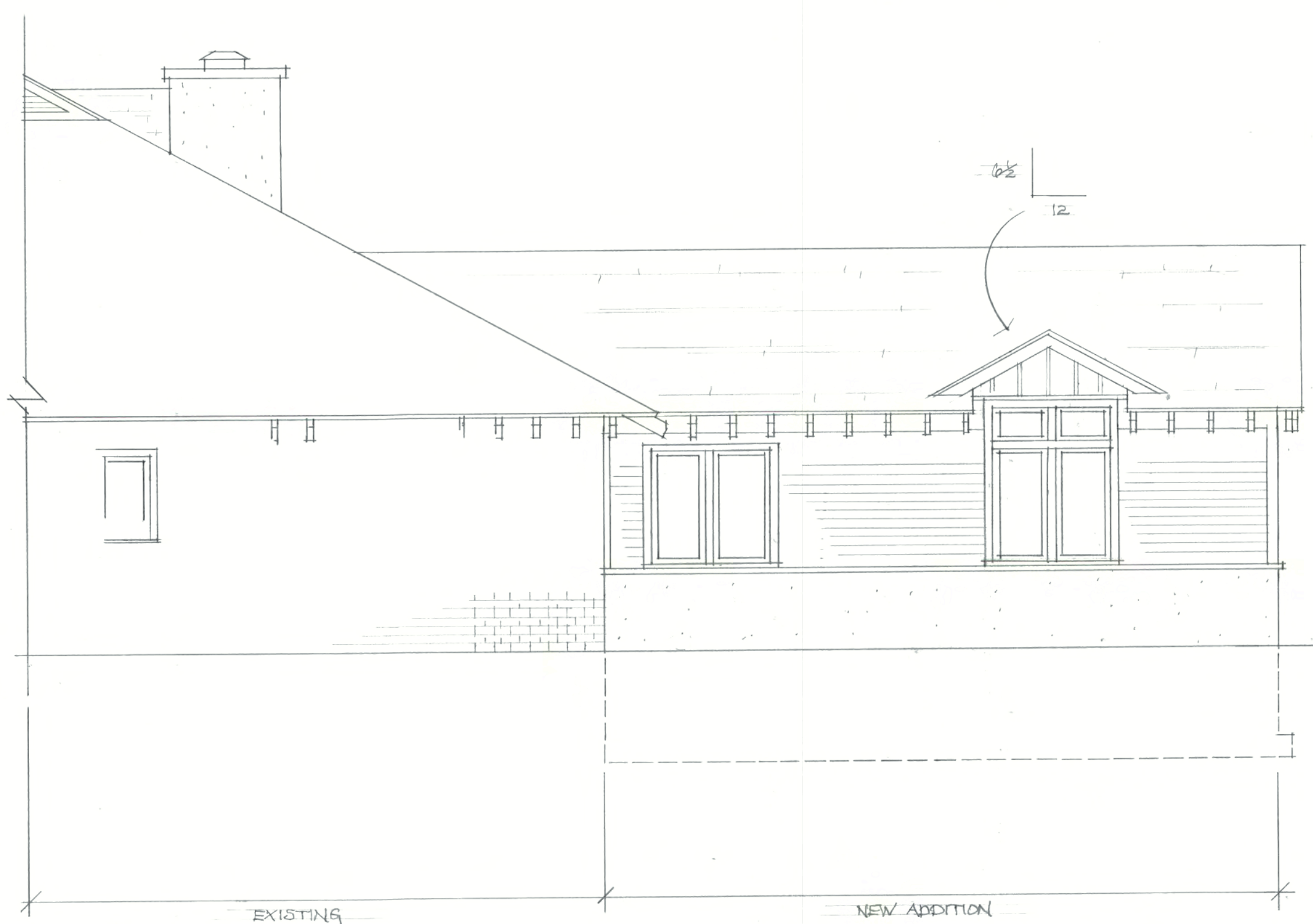
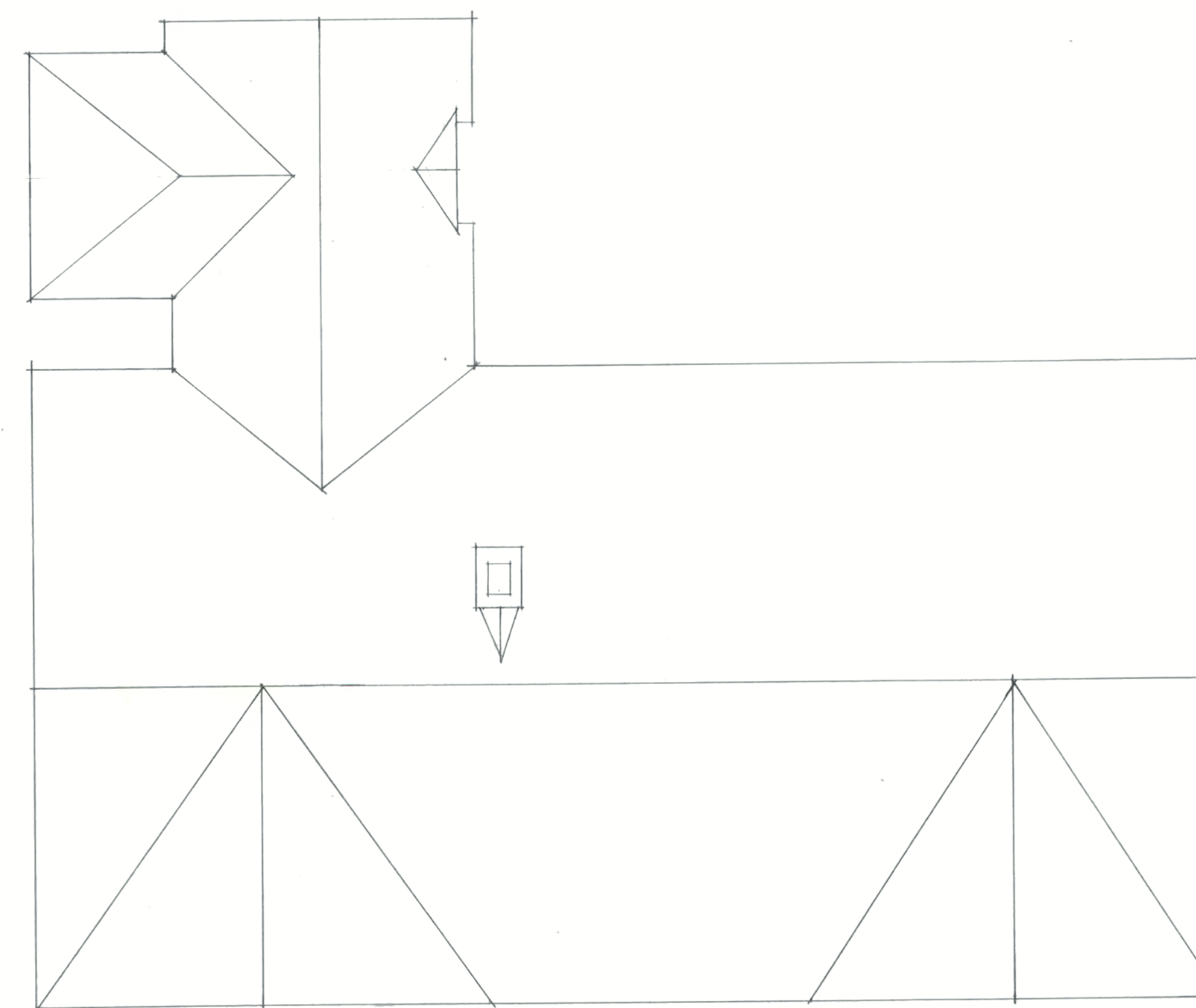


Chuck and Cathy Presto
325 W. Nokomis Ct.
Fox Point, WI

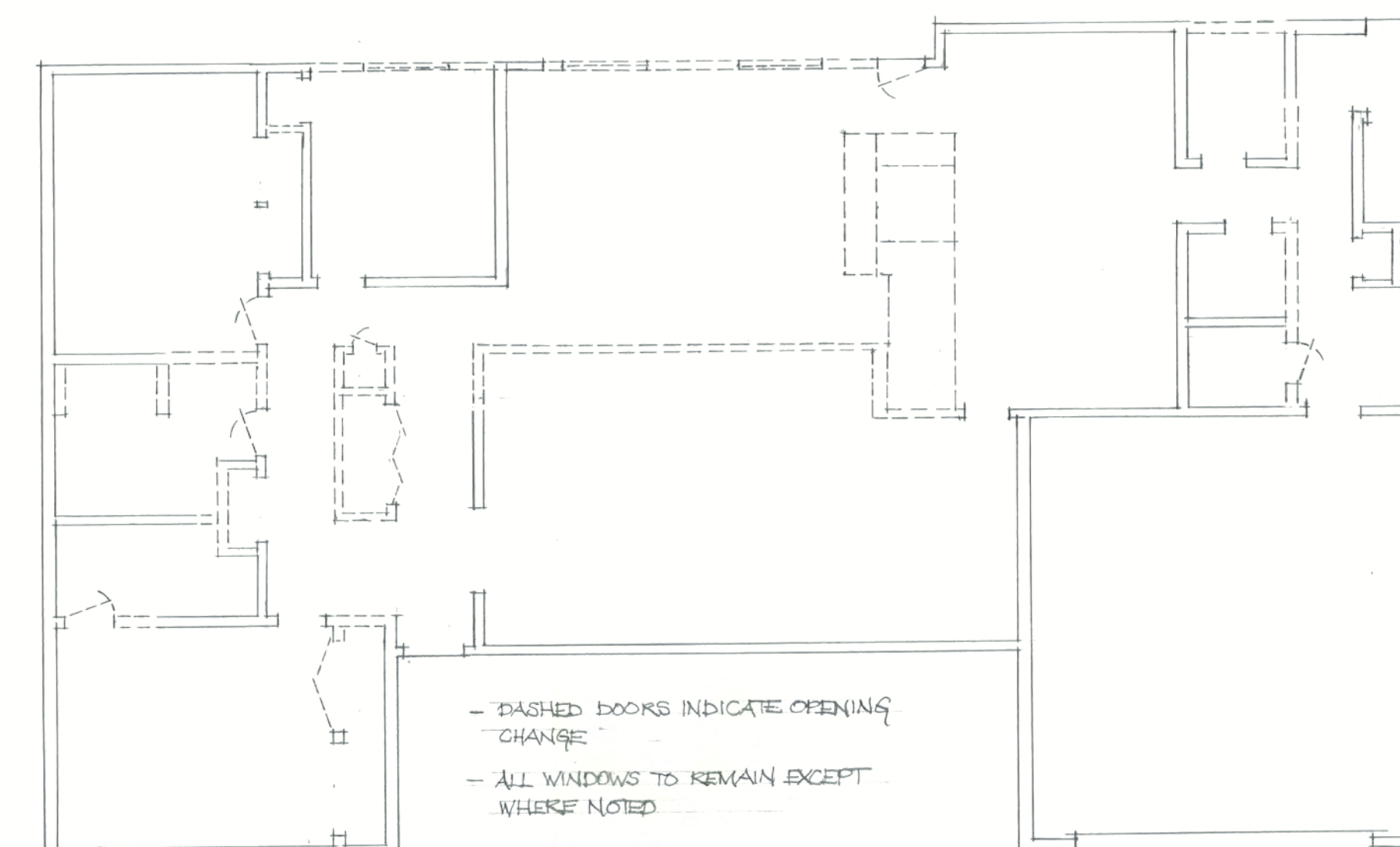
Date
Scale
Drawn
Job
Sheet
Of Sheets



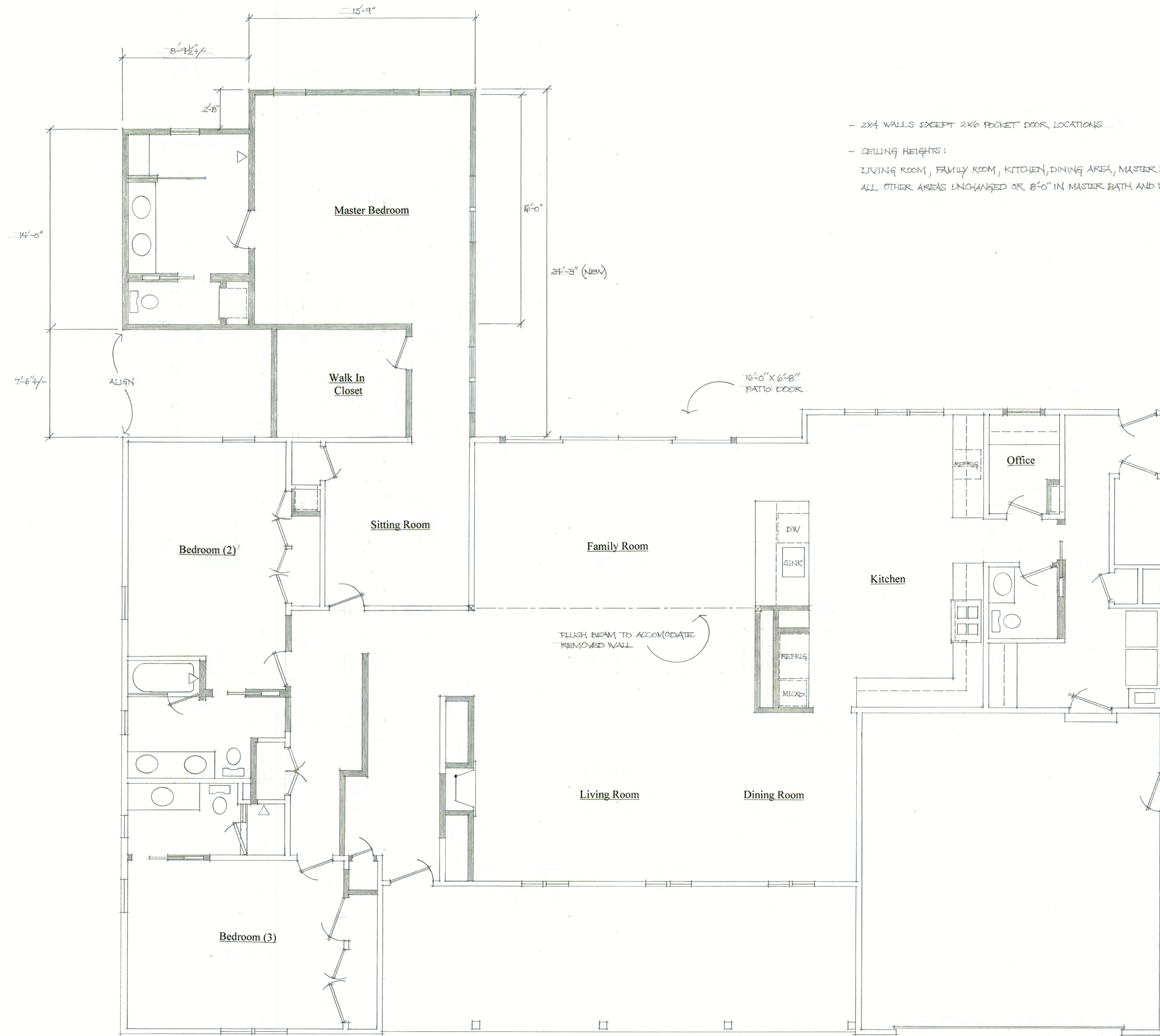
East Elevation

West Elevation

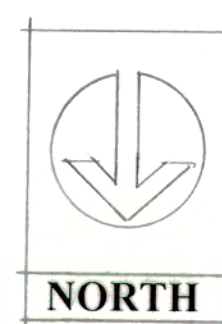
Roof Plan



Demolition Plan



Floor Plan



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

REVISIONS	BY

steve@vintage
designllc.com
414-467-9309

Vintage Design, LLC
811 W. Green Tree Rd.
Milwaukee, WI



Chuck and Cathy Presto
325 W. Nokomis Ct.
Fox Point, WI

Date	
Scale	
Drawn	
Job	
Sheet	
Of	Sheets











VILLAGE OF FOX POINT

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

BUILDING BOARD

The Building Board meeting is typically held on the second Wednesday of every month starting at 5:00 p.m. Please check the website (Agendas & Minutes) for the agenda.

The application deadline is the Friday prior to the Wednesday meeting at noon. All applications must be complete and shall include the proper filling fee.

The following are examples of projects that must appear before the Building Board: New Construction, Additions, Exterior Improvements, Detached Garage, Decks, Sheds (≥ 100 sqft), Window Replacement, New Doors, Patio Doors, Pools, Signs and Solar Systems.

- ☐ **Three (3) Sets of drawings** to 1/4 inch scale on 24" x 36" maximum size sheets. These shall include all elevations, floor plans, foundation plan, and cross sections.

Elevation Drawings shall include all proposed elevations of the building, even if changes to the elevation are not proposed. This is to ensure consistency of all elevations. In cases where a building element may be skewed from another, it may be necessary to draw more than the four primary elevations of the building to clearly explain the intent of the design. All building elevations must be fully dimensioned to indicate heights above grade for all components. If the project is a building addition or remodeling, the original structure should be clearly illustrated as new building versus existing structure. ***The complete existing elevation should be shown in all cases of additions and remodeling.*** All building materials must be identified and noted on each elevation drawing. This is to include, but not limited to, type and size of siding, type and size of masonry, window type size and material, roofing material, fascia, rakes, soffits, eaves, and flashing materials. It is recommended to bring material samples and colors.

Dimensioned floor plans shall include all floor plans of the proposed building. Each plan must include complete dimensions, and include room names for each space. In the case of an addition, each room shall be tagged either existing or new. In the case where there is a detached garage, a separate plan, fully dimensioned, for the garage must be included.

- ☐ **Three (3) Sets - Color photos** that includes all elevations of existing home and any accessory structures on the property.
- ☐ **Three (3) Sets - Survey** (to be less than one year old or an accurate survey showing all buildings) This document must include all property lines with distances bearings, North arrow, exact location of all existing and proposed buildings, parking areas, drives, public improvements, easements, and other key features of the site. Show distances from front, rear and side property lines.
- ☐ **Site Plan** (Include a North arrow and dimensions) This document must include all property lines, utility and access easements, zoning setbacks, grades at one foot intervals, exact location of all existing and proposed buildings or additions including roof overhangs, all hard surfaced areas (parking areas, drives, patios, sidewalks, etc.), swimming pools, and other accessory structures.
- ☐ **Open Area** calculation required for New Construction, Additions, and Accessory Structures.
- ☐ **Grades** - Existing and proposed grades to be submitted to engineering before Building Board meeting.
- ☐ **Completed Building Permit Application.**
- ☐ **Building Board Fee** \$75.00 Payable to the Village of Fox Point.
- ☐ **IT IS MANDATORY THAT A REPRESENTATIVE IS IN ATTENDANCE.**

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

OFFICE USE ONLY
Issued Date
Zoning

BUILDING PERMIT

Job Address 503 E. Bradley Rd	Building Type: Residential - Commercial
Description of Work Razing of existing house and garage and building of new 2394 SF home	
Estimated Cost of Project \$432,000	

Owner/Occupant	
Contact Name Brian Tobiczky	Business Name
Address 7921 N Fairchild Rd,	City/State/Zip Fox Point WI, 53217
Phone 414-477-3355	Email btobiczky@gmail.com

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name Pilot Builders	Contact Name Jason Hernandez
Address 5109 North Woodburn St	City/State/Zip Whitefish Bay, WI 53217
Phone 414-759-8808	Email jason@apm-llc.com
Dwelling Contractor #011600034	Dwelling Contractor Qualifier #101500037

Square Footage Under Construction				
1 st Floor 1200	2 nd Floor 1173	Basement 1200	Addition	Garage 560

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	\$1615
Building Board	\$75.00	\$75
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction \$300.00 plus \$27.00/unit commercial; New Construction		\$250
State Seal	\$65.00	
Razing, Interior Demolition House: 992 Garage: 440 \$85.00 minimum plus	\$0.12/sqft	\$256.84
Moving buildings over public ways \$230.00 plus	\$0.12/sqft	
Fuel tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	
Other		
Work started without permit Double Fee		
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$ 2196.84

Applicant Signature _____ **Date** _____

Rev 09/20

ISSUED PERMITS are available on the Village website under *PERMITS & LICENSES*

503 E BRADLEY RD - EXISTING HOUSE



NORTH



SOUTH



EAST



WEST

503 E BRADLEY RD - EXISTING GARAGE



SOUTH



NORTH



WEST



EAST

M.S.S. / MORTGAGE SURVEY SERVICE

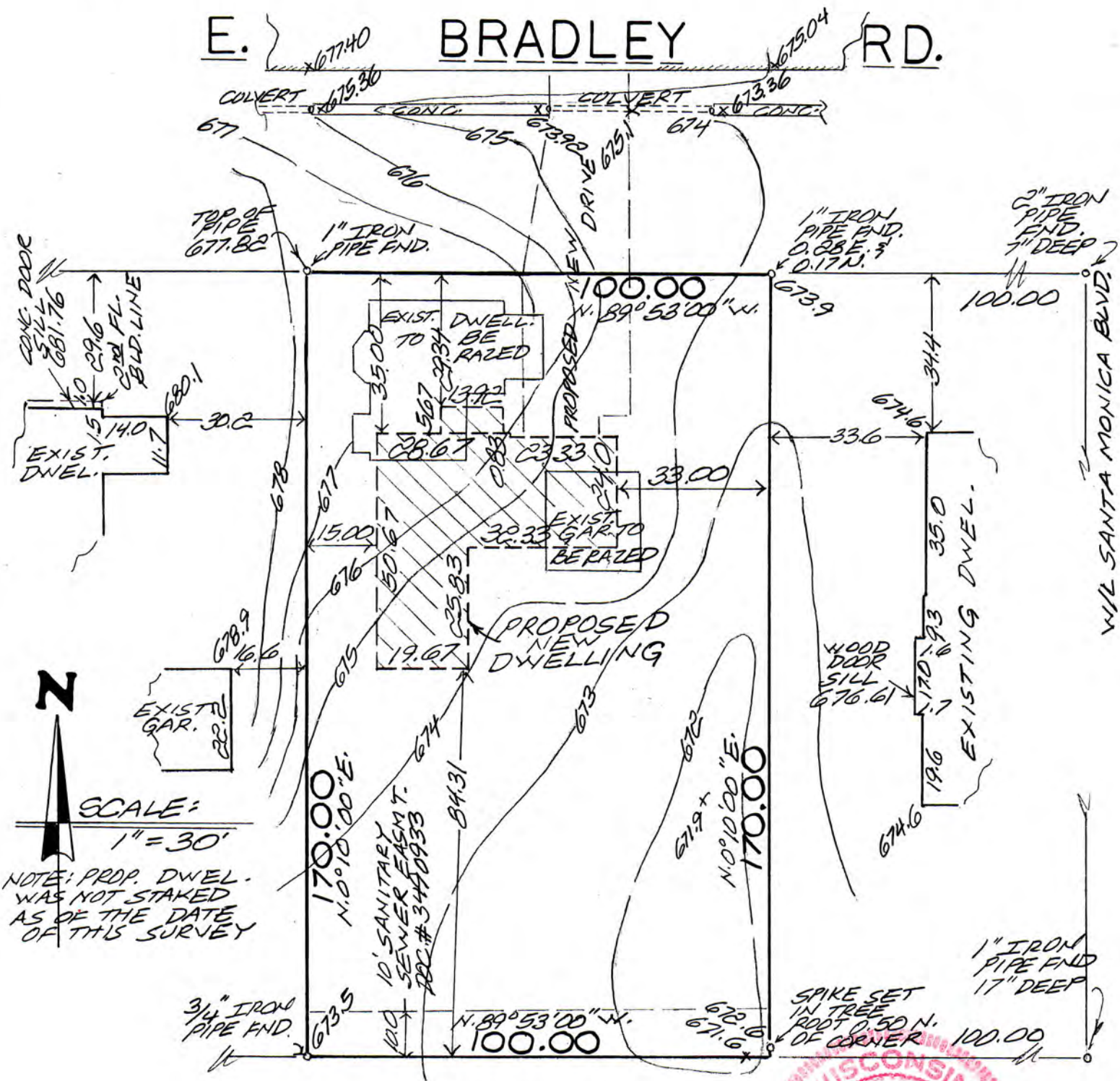
6617 West Coldspring Road Greenfield, Wisconsin 53220 (414) 327-4400

Prepared For Brian Tobiczky

Location of Property 503 East Bradley Road, Fox Point, WI

Description of Property

Lot 7 in Block 3 in BACON HOMESITES, being a subdivision of lands in the Northeast ¼ of Section 17, and the Northwest ¼ of Section 16, Township 8 North, Range 22 East, in the Village of Fox Point, Milwaukee County, Wisconsin.



State of Wisconsin

I have surveyed the above-described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all structures thereon, fences, apparent easements and roadways and visible encroachments, if any.

This survey is made for the exclusive use of the present owner of the property, and also those who purchase, mortgage, or guarantee the title thereto within (1) year from date hereof.

Dated at Greenfield, WI , this 26th day of September 20 20

NOTE: All property corners will not be located, verified and/or reset (per Section A-E7.01 Wisconsin Administrative Code) unless specifically requested.

WISCONSIN
JAMES E. SULKOWSKI
1866
GREENFIELD, WI
REGISTERED LAND SURVEYOR
James E. Sulkowski
Registered Land Surveyor



Sheet Index

architectural drawings	
COVER SHEET	
A0.0	PERSPECTIVES
A1.0	SITE PLAN
A1.1	-
A1.2	UTILITY PLAN
A2.0	FIRST & SECOND FLOOR PLAN
A2.1	FOUNDATION & ROOF PLAN
A3.0	EXTERIOR ELEVATIONS
A3.1	EXTERIOR ELEVATIONS
A4.0	BUILDING SECTIONS
A4.1	WALL SECTIONS
A5.0	DETAILS
A5.1	-
A6.0	WINDOW & DOOR SCHEDULES

TOBICZYK RESIDENCE

503 E. BRADLEY RD, FOX POINT, WI 53217



SETBACK & HEIGHT LIMITATIONS-"B" ZONING

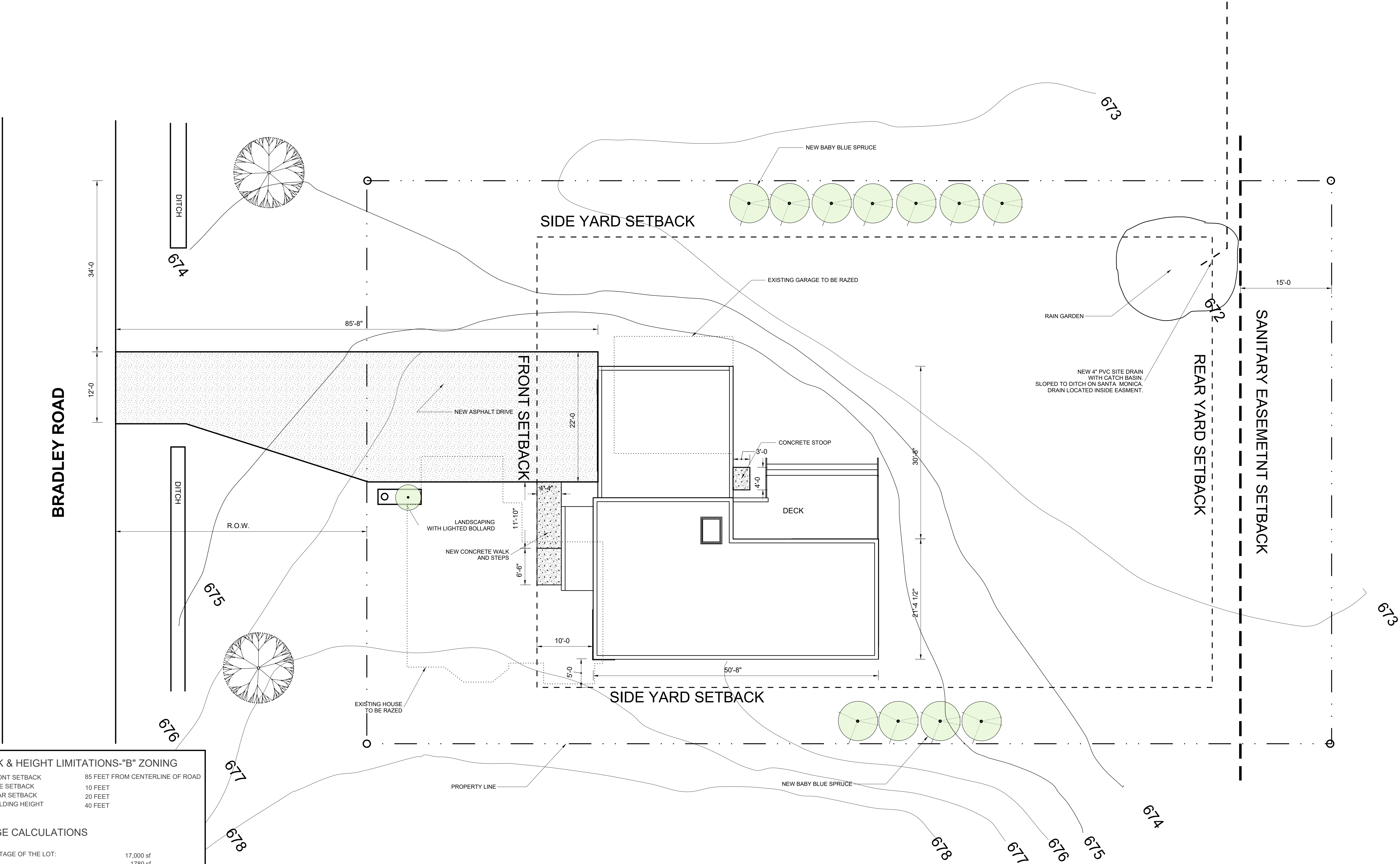
MAXIMUM FRONT SETBACK	85 FEET FROM CENTERLINE OF ROAD
MAXIMUM SIDE SETBACK	10 FEET
MAXIMUM REAR SETBACK	20 FEET
MAXIMUM BUILDING HEIGHT	40 FEET

COVERAGE CALCULATIONS

SQUARE FOOTAGE OF THE LOT:	17,000 sf
FOOT PRINT:	1780 sf
BUILDING COVERAGE:	1780 sf
ALLOWABLE BUILDING COVERAGE:	2000 sf

BUILDING AREA:

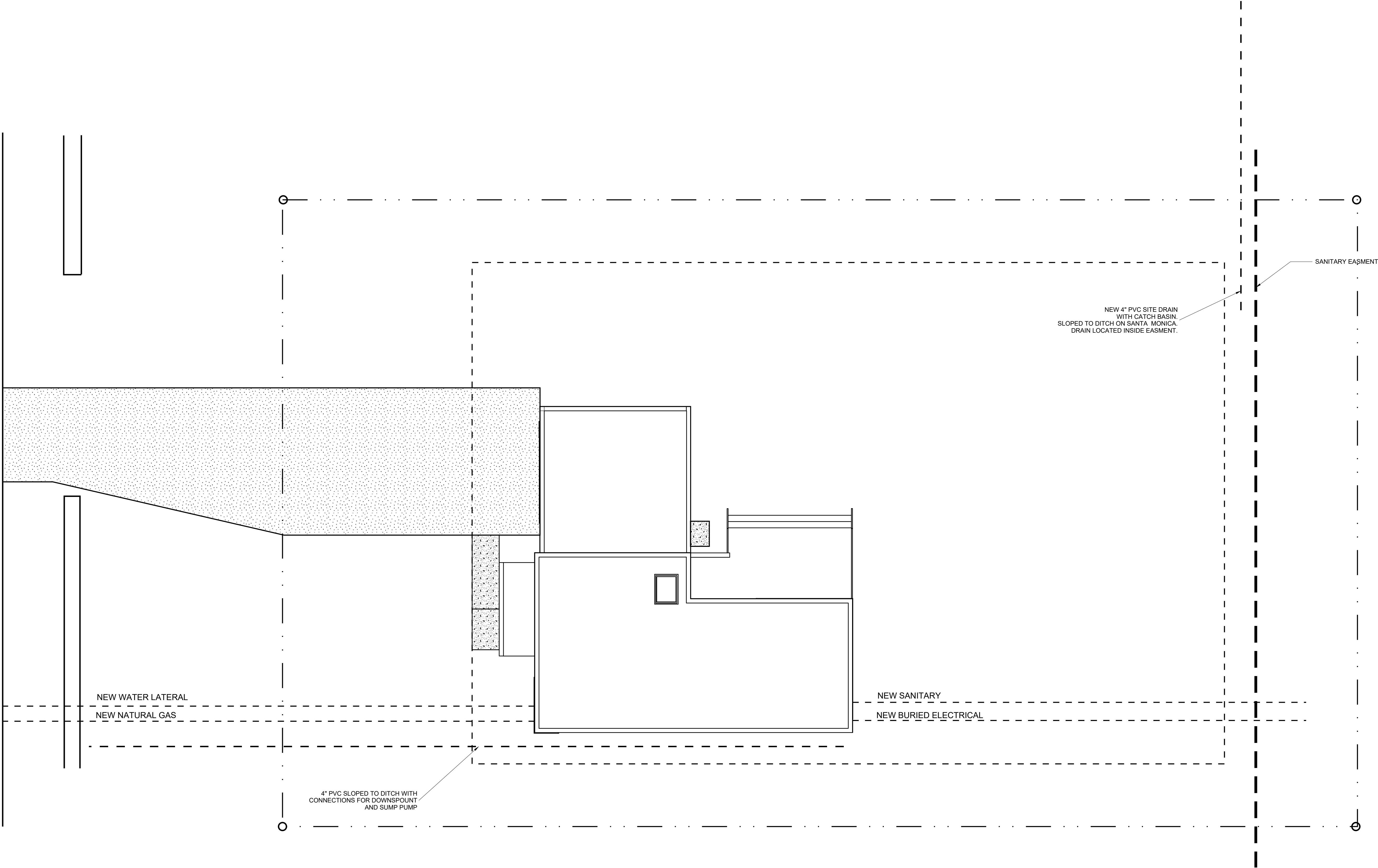
FIRST FLOOR LIVING AREA:	1,220 SF
SECOND FLOOR LIVING AREA:	1,174 SF
TOTAL LIVING AREA:	2,394 SF
GARAGE AREA:	560 SF



1 SITE PLAN
A-1.0 1/8" = 1'-0"



BRADLEY ROAD



1
A-1.2

UTILITY PLAN

1/8" = 1'-0"



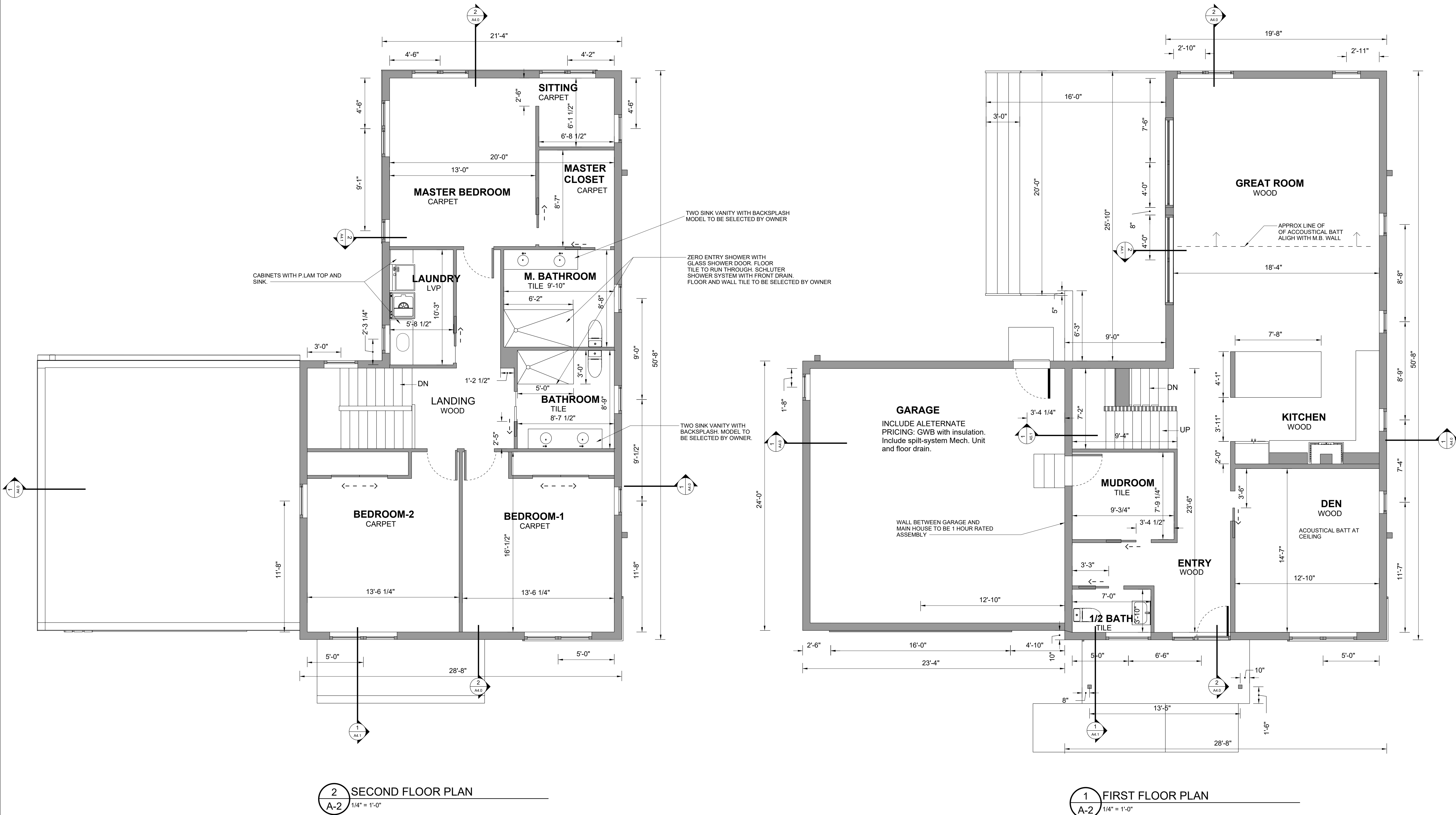
Utility Plan

ISSUE
10/7/2020
DRAWN BY
BT

TOBICZYK RESIDENCE
503 E. BRADLEY RD.
FOX POINT, WI 53217

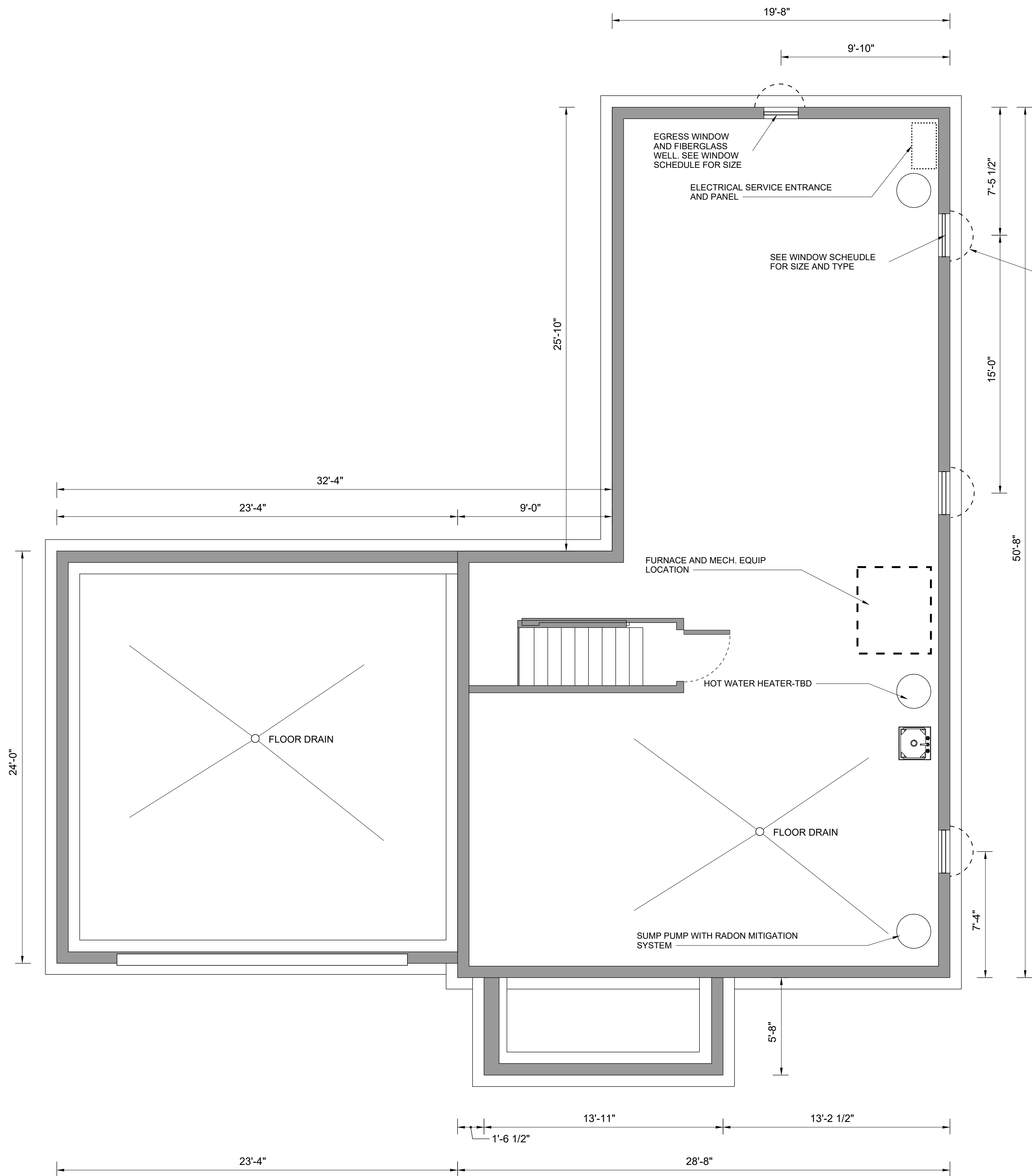
Brian
Tobiczyk ARCHITECT

A1.2

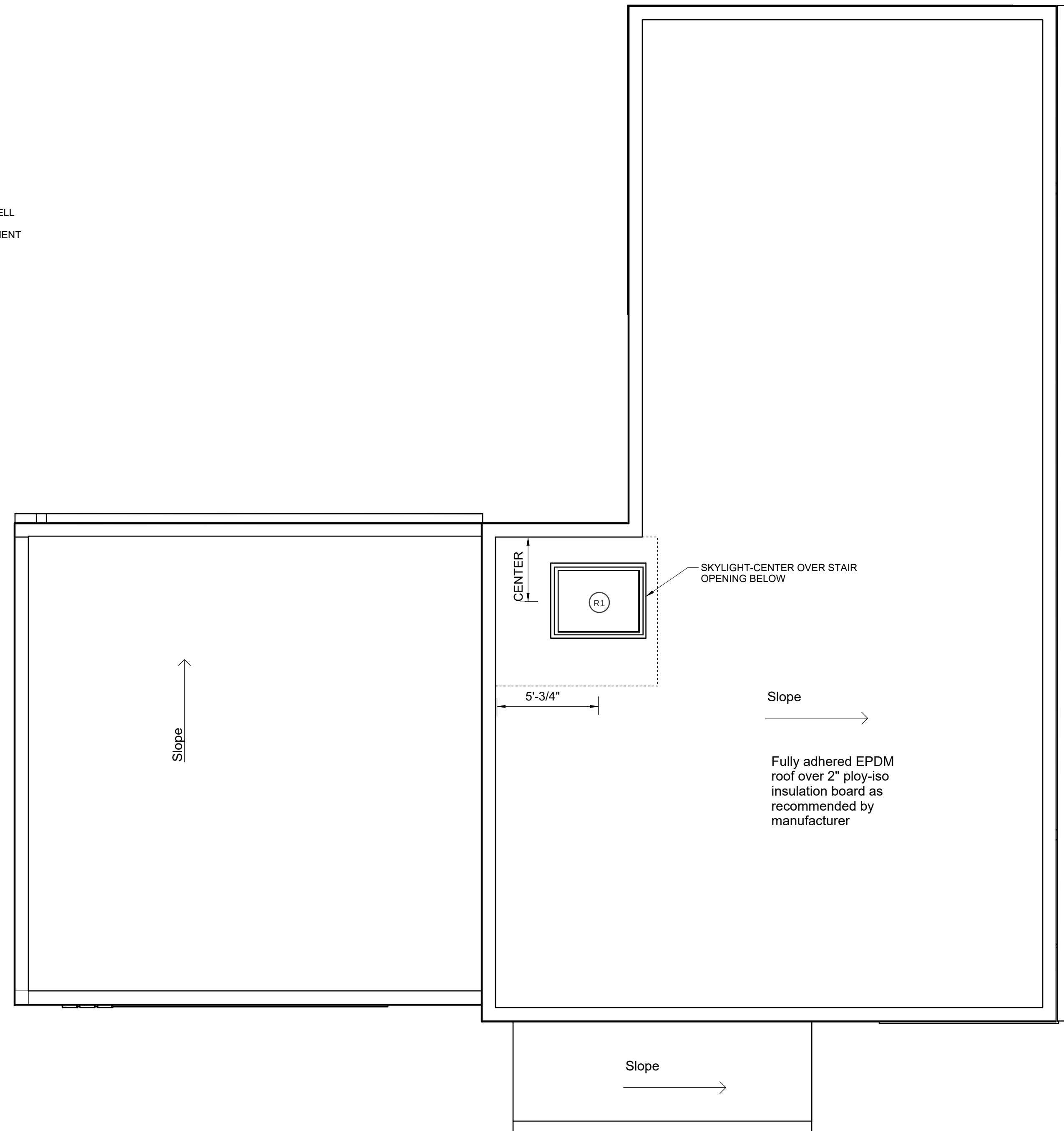


2 SECOND FLOOR PLAN
1/4" = 1'-0"

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



2 FOUNDATION PLAN
A-3 1/4" = 1'-0"



1 ROOF PLAN
A-3 1/4" = 1'-0"



EXTERIOR ELEVATION GENERAL NOTES

1. SLOPE GRADE A MINIMUM OF 2% AWAY FROM THE BUILDING FOR A MINIMUM DISTANCE OF 5'-0"
2. PAINT ALL EXPOSED VENTS ON ROOF TO MATCH ROOF COLOR.
3. PAINT ALL EXPOSED VENTS ON SIDING TO MATCH SIDING COLOR.
4. MAINTAIN 8" CLEARANCE BETWEEN NATURAL GRADE AND EXPOSED SIDING
5. ALL DECK RAILINGS SHALL BE 42" TALL MINIMUM. ALL OPENINGS SHALL BE CONSTRUCTED TO PREVENT A 4" SPHERE FROM PROJECTING THROUGH THE OPENING.
6. REFER TO ELECTRICAL SHEETS FOR EXTERIOR LIGHTING. .
7. ALL WALL VENTS SHALL BE PROTECTED BY CORROSION RESISTANT, NON-COMBUSTIBLE WIRE MESH WITH 1/8" MAXIMUM OPENINGS.
8. ALL EXPOSED MECHANICAL AND PLUMBING VENTING LOCATIONS TO BE APPROVED BY ARCHITECTURE REVIEW PRIOR TO INSTALLATION AND PAINTED A COLOR THAT COMPLEMENTS THE SURROUNDING MATERIAL (ROOF/SIDING).
9. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS, OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, COMCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

EXTERIOR SIDINGMATERIALS

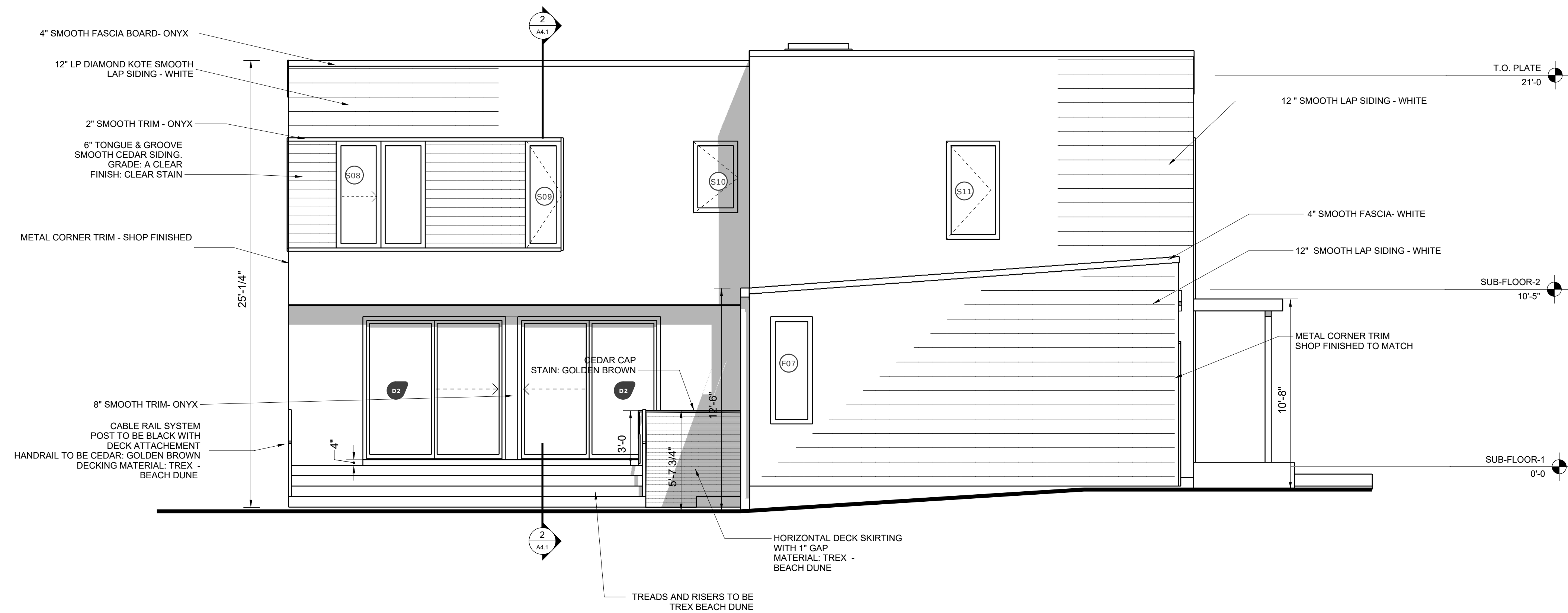
LAP SIDING:
MANUFACTURER: LP DIAMONDKOTE
TYPE: 12" WITH 11" EXPOSURE
FINISH:SMOOTH
COLOR: WHITE
CORNERS TO BE PREFINISHED METAL TO MATCH

TRIM:
MANUFACTURER: LP DIAMONDKOTE
TYPE: SIZE AS NOTED
FINISH:SMOOTH
COLOR: ONYX

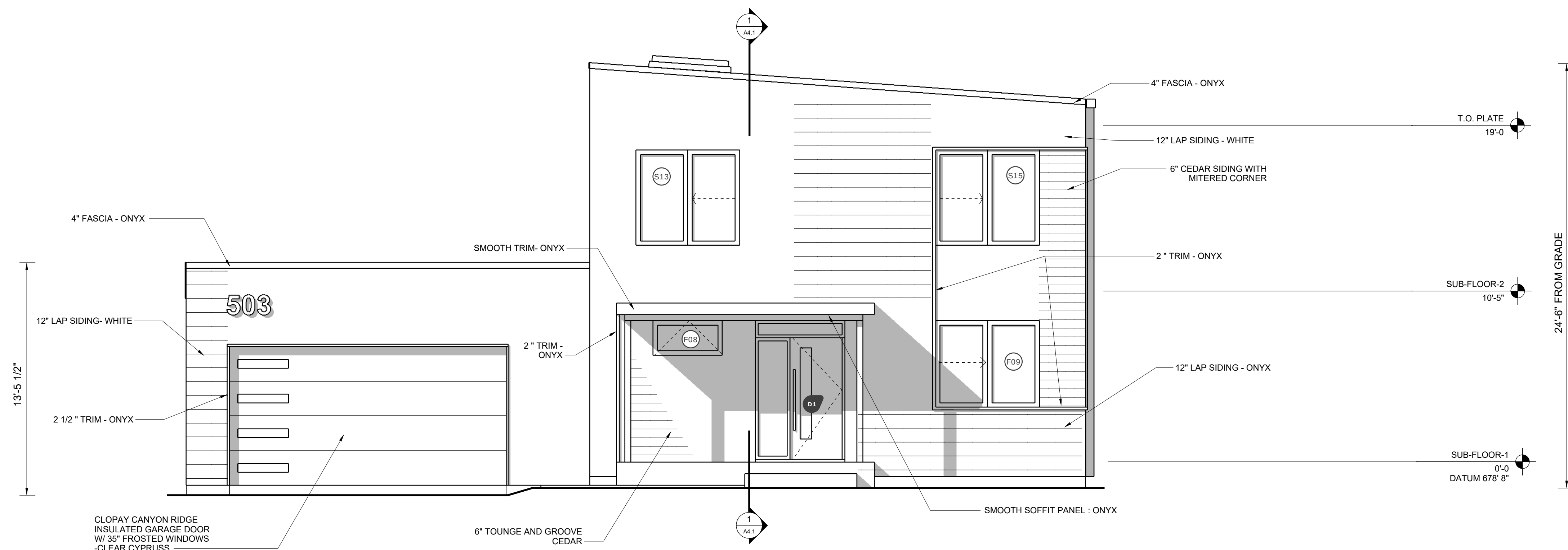
CEDAR SIDING:
6" TOUNGE & GROOVE
TYPE: A CLEAR
FINISH: CLEAR STAIN

FLASHING:
ALL METAL FLASHING TO BE PREFINISHED BLACK

SOFFITS:
MANUFACTURER: LP DIAMONDKOTE
TYPE: UNVENTED
FINISH:SMOOTH
COLOR: ONYX



3 EAST ELEVATION
A-4 1/4" = 1'-0"



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

EXTERIOR ELEVATION GENERAL NOTES

1. SLOPE GRADE A MINIMUM OF 2% AWAY FROM THE BUILDING FOR A MINIMUM DISTANCE OF 5'-0"
2. PAINT ALL EXPOSED VENTS ON ROOF TO MATCH ROOF COLOR.
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EXTERIOR SIDINGMATERIALS

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MANUFACTURER: LP DIAMONDKOTE
TYPE: 12" WITH 11" EXPOSURE
FINISH:SMOOTH
COLOR: WHITE
CORNERS TO BE PREFINISHED METAL TO MATCH

TRIM:
MANUFACTURER: LP DIAMONDKOTE
TYPE: SIZE AS NOTED
FINISH:SMOOTH
COLOR: ONYX

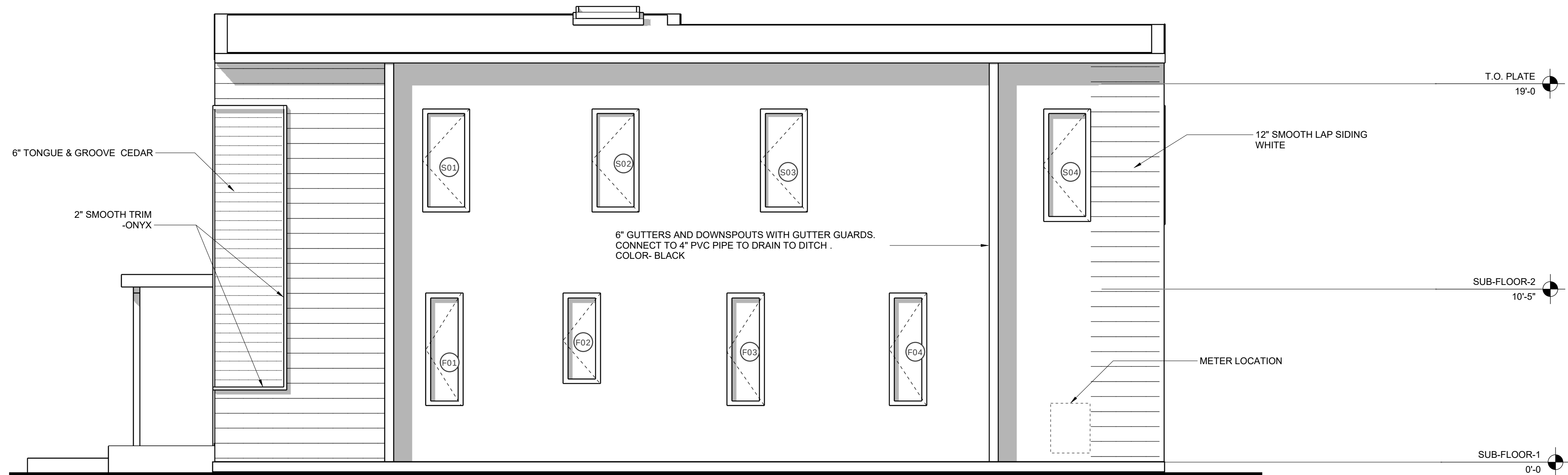
CEDAR SIDING:
6" TOUNGE & GROOVE
TYPE: A CLEAR
FINISH: CLEAR STAIN

FLASHING:
ALL METAL FLASHING TO BE PREFINISHED BLACK

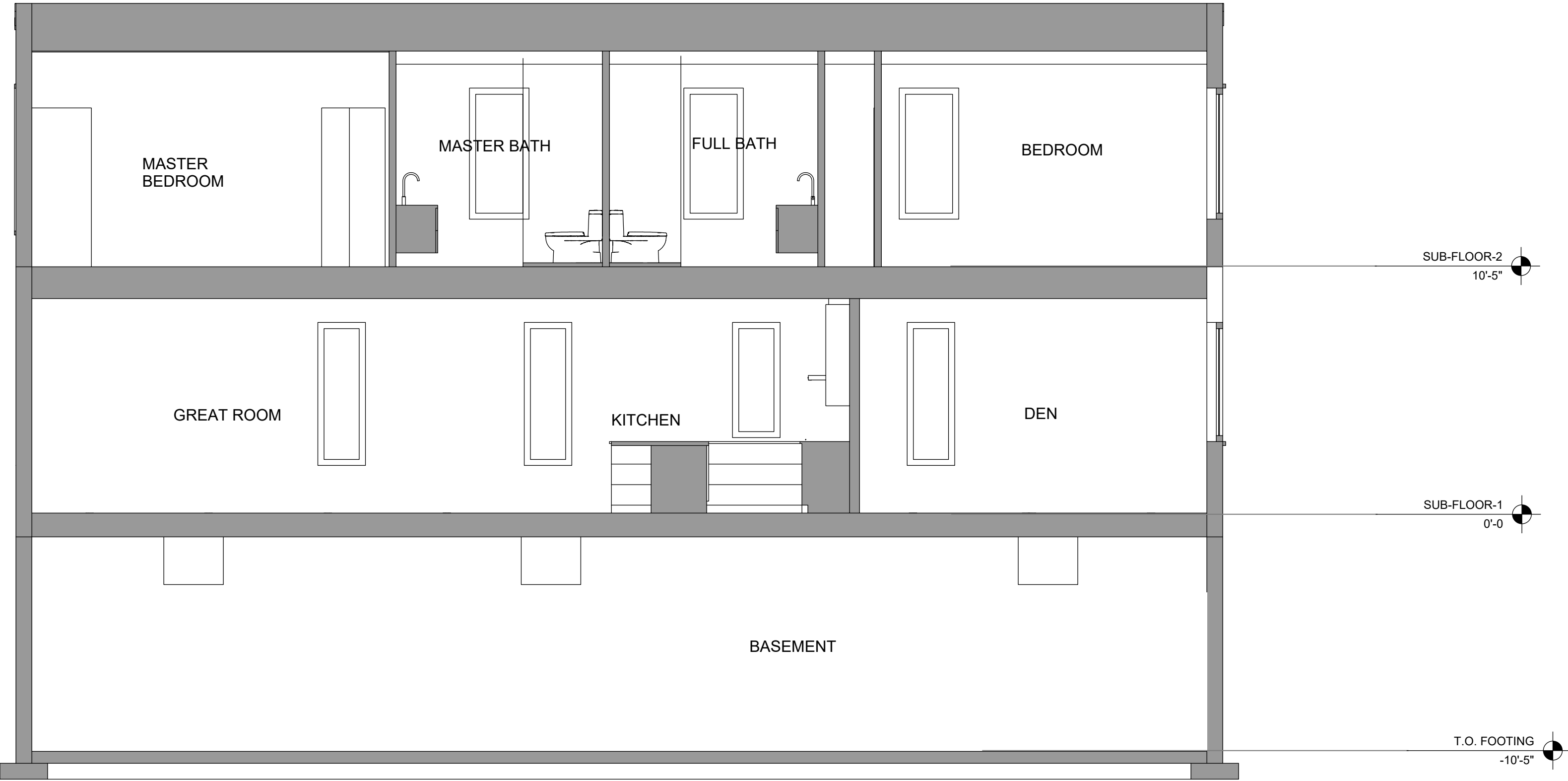
SOFFITS:
MANUFACTURER: LP DIAMONDKOTE
TYPE: UNVENTED
FINISH:SMOOTH
COLOR: ONYX



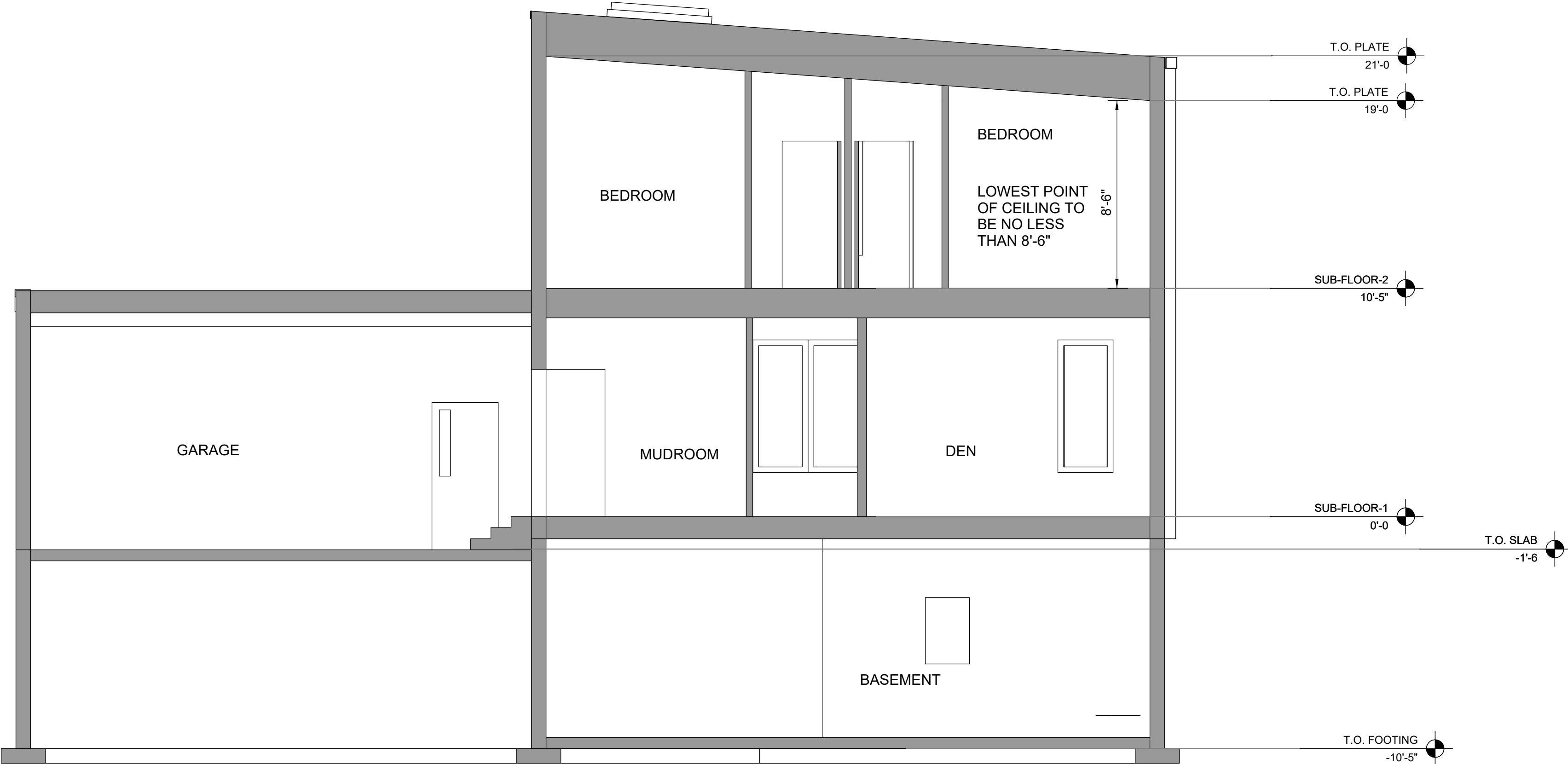
2 SOUTH ELEVATION
A3.1 1/4" = 1'-0"



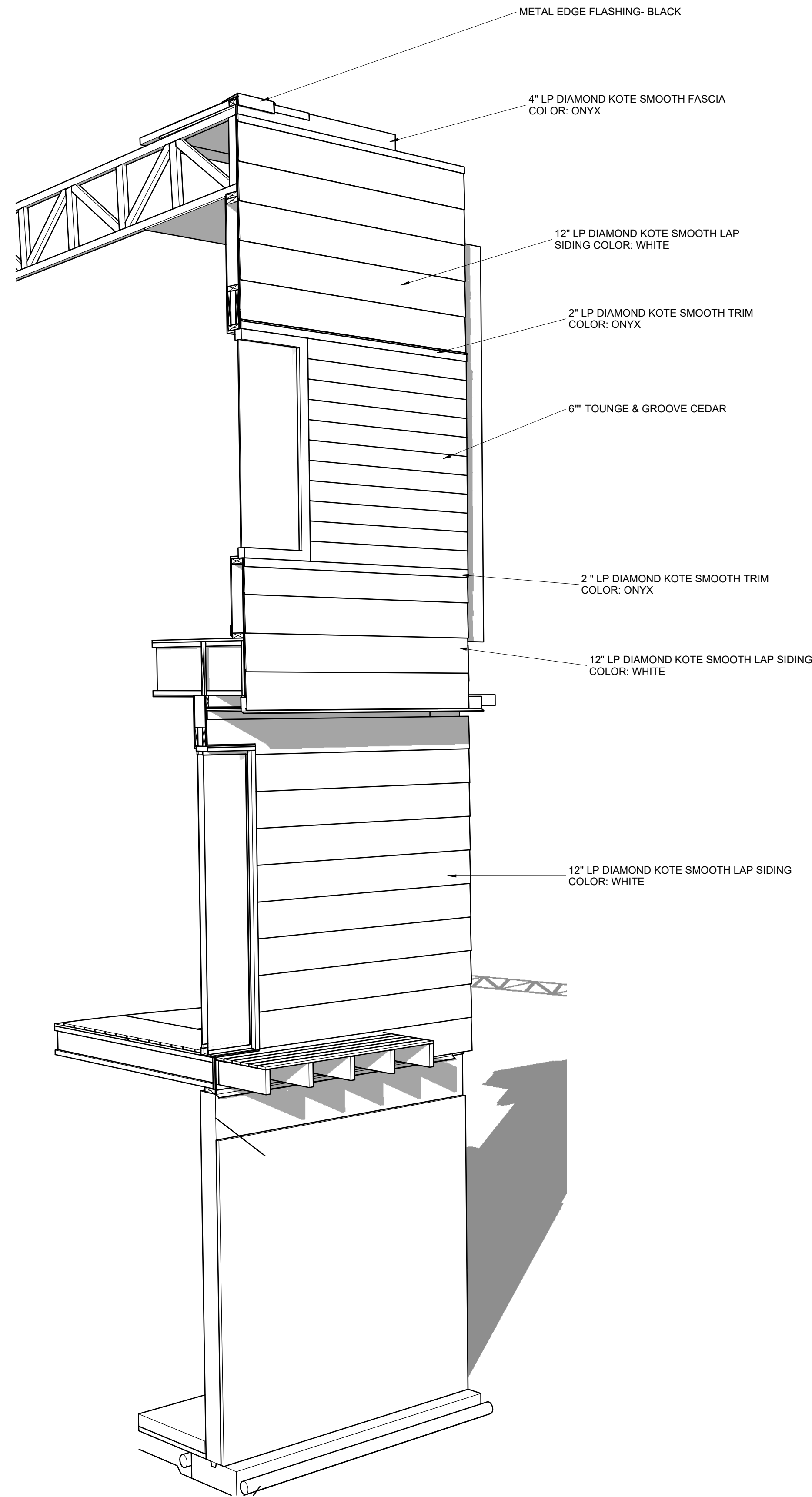
1 WEST ELEVATION
A3.1 1/4" = 1'-0"



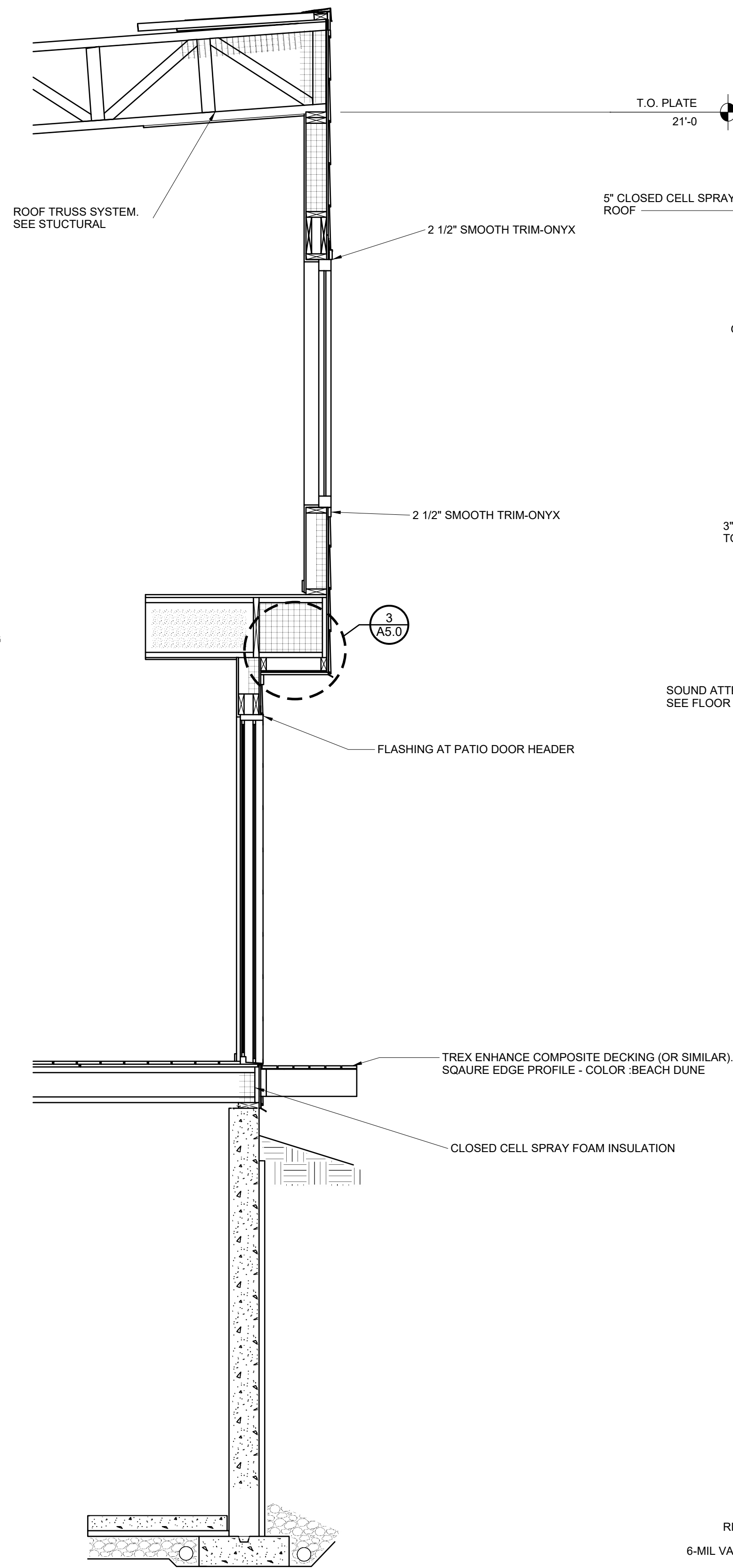
2 SECTION
A4.0 1/4" = 1'-0"



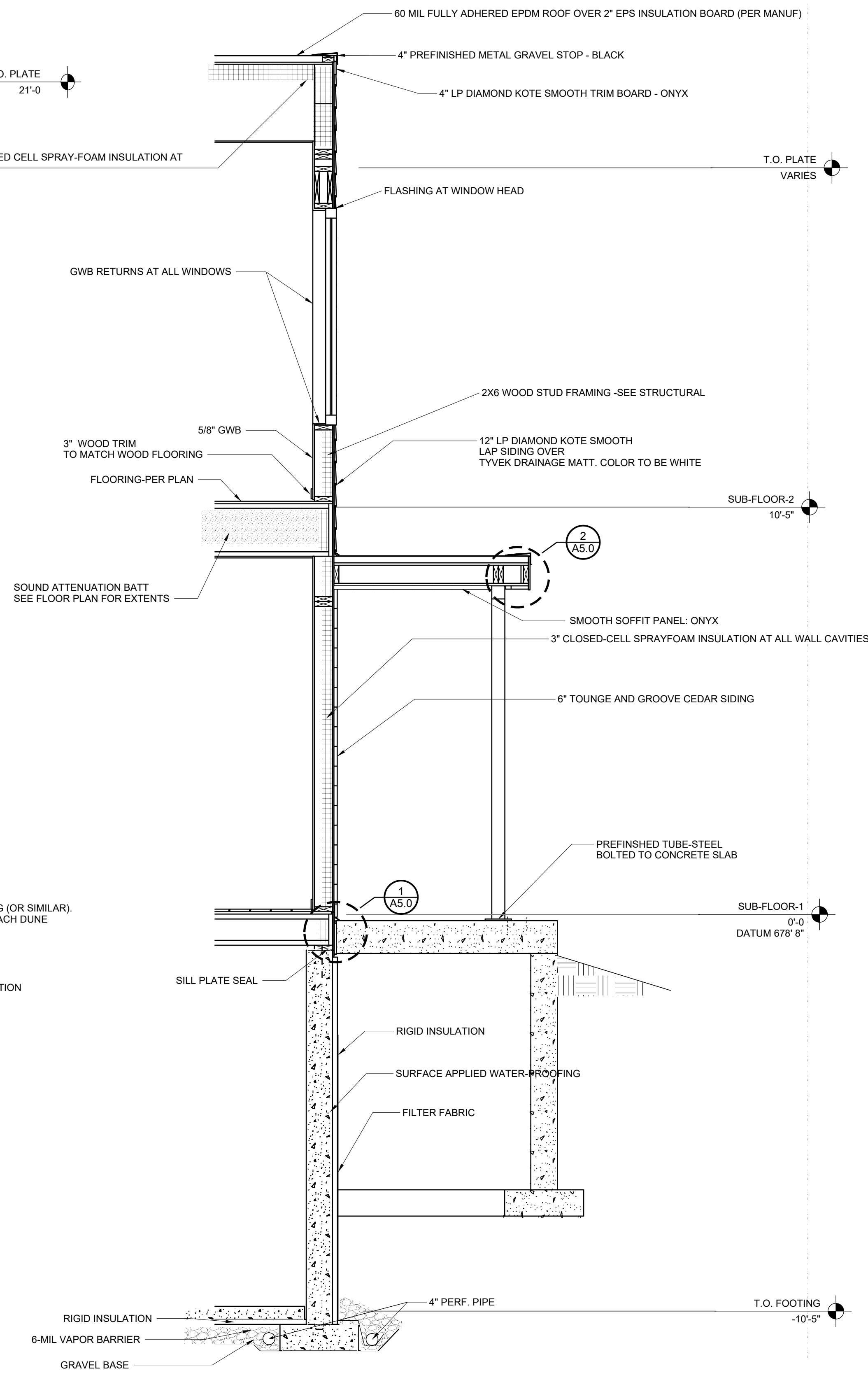
1 SECTION
A4.0 1/4" = 1'-0"



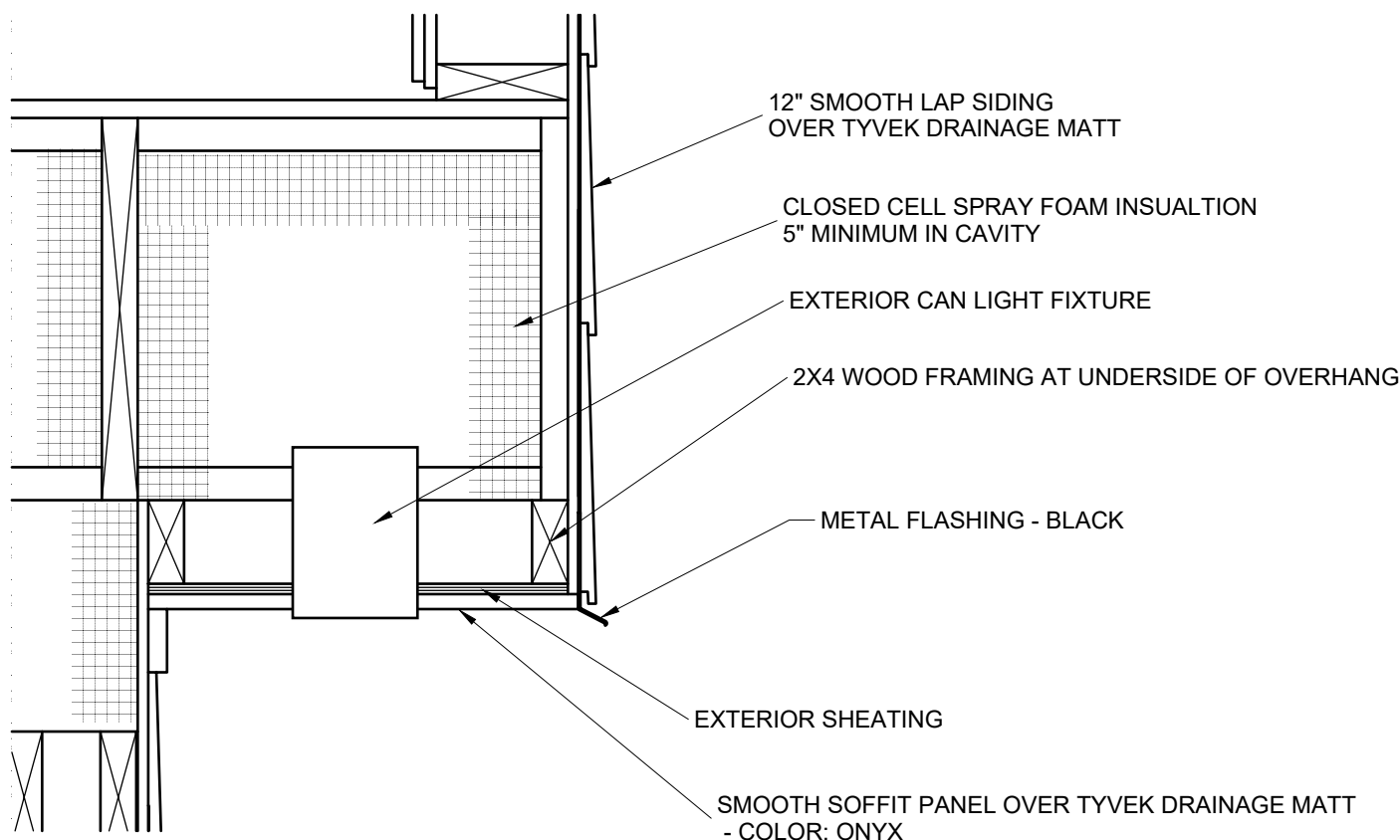
3 SECTION PERSPECTIVE
A4.1 NTS



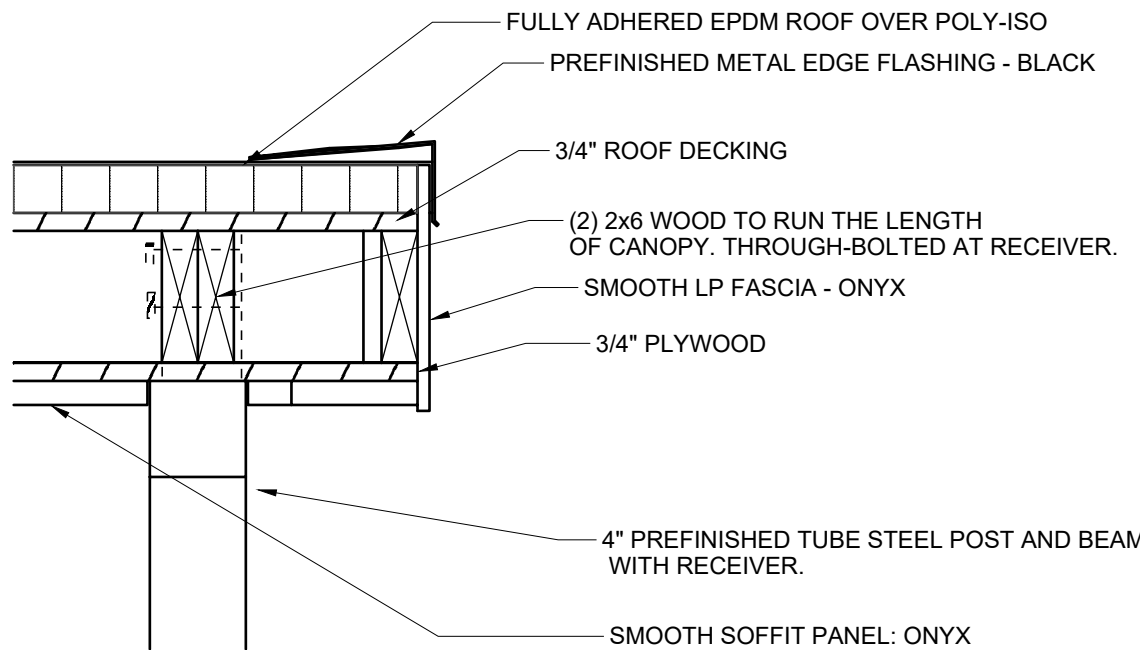
2 WALL SECTION
A4.1 1/2\"/>



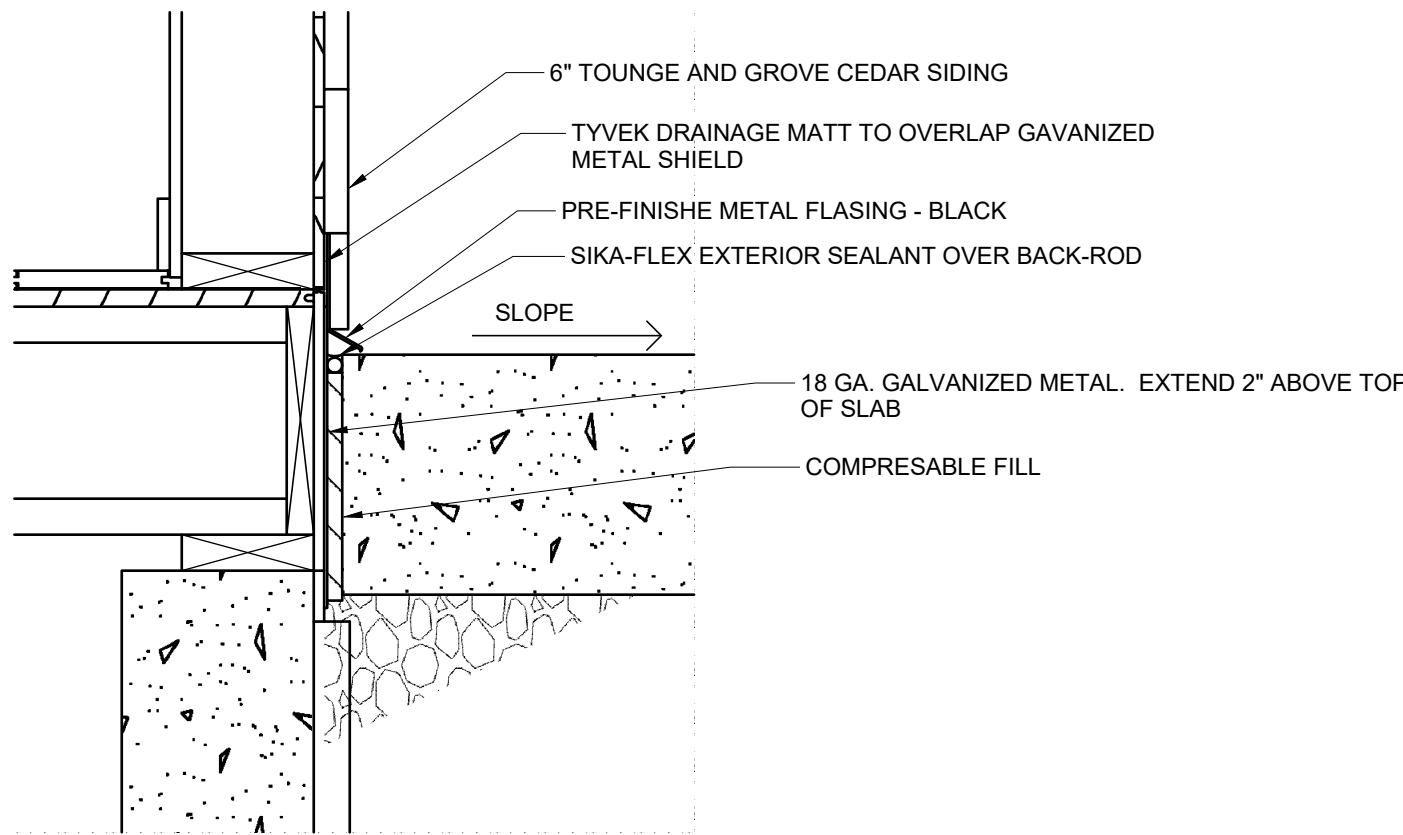
1 WALL SECTION
A4.1 1/2\"/>



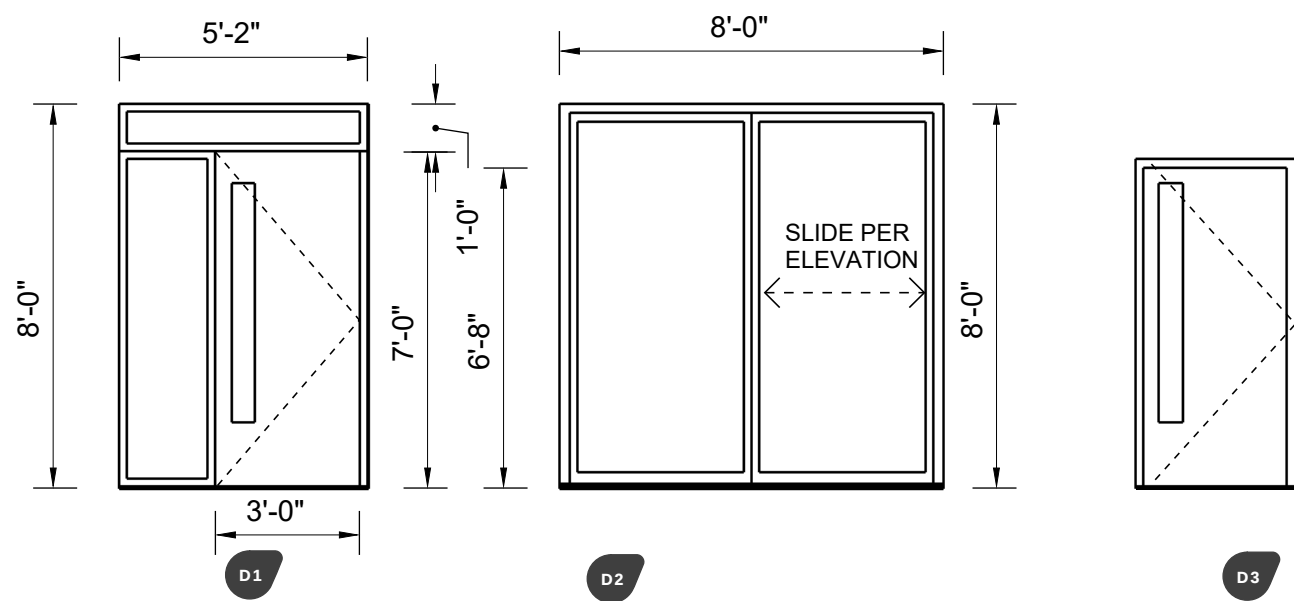
3 DETAIL-OVERHANG
A5.0 1 1/2" = 1'-0"



2 DETAIL - FRONT CANOPY
A5.0 1 1/2" = 1'-0"



1 DETAIL - FRONT STOOP
A5.0 1 1/2" = 1'-0"



Pre-Finished Insulated Fiberglass door with fixed transom and sidelight

Manufacturer: Western Model: SM16 Left Lute Glazing: Low-E Color: Yellow

Manufacturer: Andersen Model: 100 Gliding Patio Door Finish: Black Both Sides Hardware: Afton - Balck Accessories: Insect Screens, Auxiliary Foot-Lock Glazing: Low-E

Pre-Finished Insulated Fiberglass door

Manufacturer: Western Model: SM16 Left Lute Glazing: Low-E Color: Yellow

2

EXTERIOR DOORS

1

INTERIOR DOORS

WINDOW SCHEDULE					
NUMBER	TYPE	SILL HEIGHT (ABOVE DECK)	HEIGHT	WIDTH	NOTES
BASEMENT					
B-1 (ALL LOCATIONS)	AWNING	7'-0	2'-0	2'-6"	
B-2	CASEMENT -EGRESS		4'-0	3'-0	
FIRST FLOOR					
F01	Casement	1'-6"	6'-0	2'-0	
F02	Casement	3'-6"	4'-6"	2'-0	
F03	Casement	1'-6"	6'-0	2'-0	
F04	Casement	1'-6"	6'-0	2'-0	
F05	Casement	1'-6"	6'-0	2'-0	
F06	Sliding	1'-6"	6'-0	5'-0	
F07	Fixed	1'-6"	6'-0	2'-0	
F08	Awning	6'-0	2'-0	4'-0	
F09	Sliding	3'-0"	5'-0	6'-0	
SECOND FLOOR					
S01	Casement	2'-0	5'-6"	2'-6"	
S02	Casement	2'-0	5'-6"	2'-6"	
S03	Casement	2'-0	5'-6"	2'-6"	
S04	Casement	1'-6"	6'-0	2'-6"	
S05	Sliding	1'-6"	6'-0	5'-0	
S06	Sliding	1'-6"	6'-0	5'-0	
S07	Fixed	1'-6"	6'-0	3'-0	
S08	Sliding	1'-6"	6'-0	5'-0	
S09	Casement	1'-6"	6'-0	2'-0	
S10	Casement	3'-6"	4'-0	2'-6"	
S11	Casment	2'-0	5'-6"	2'-6"	
S12	NOT USED				
S13	Sliding	2'-0	5'-6"	6'-0	
S14	NOT USED				
S15	Sliding	2'-0	5'-6"	6'-0	
ROOF					
R1	Skylight		49"	33"	

WINDOW SPECIFICATIONS:

CASEMENT/FIXED/AWNING/ SLIDING

MANUFACTURER: ANDERSON

MODEL: 100 SERIES WITH FLANGE

FINISH: BLACK BOTH SIDES (INCLUDES LOCKS AND HARDWARE)

GLAZING: LOW-E

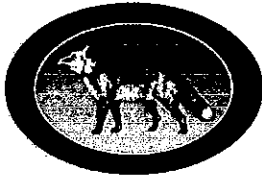
ACCESORIES: INSECT SCREENS

SKYLIGHT

MANUFACTURER: VELUX (OR SIMILAR)

MODEL: CURB MOUNTED VCS MODEL WITH REMOTE

ACCESORIES: INSECT SCREEN



VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number: _____

OFFICE USE ONLY	
Issuance Date	_____
Zoning	F, 854m/75CAL

BUILDING PERMIT

Job Address 7510 N. Santa Monica Blvd. Building Type: ☐ Residential ☒ Commercial

Description of Work:

Renodel + Addition to Existing church

Estimated Cost of Project: 3,850,000

Owner/Occupant

Name Fox Point Church Business Name _____
Address 7510 N. Santa Monica Blvd City/State/Zip _____
Phone _____ Email _____

****Cautionary Statement required when homeowner is applying for permit****

Contractor

Company Name Moore Construction Services Contractor Name Austin Moore
Address 4146 N. 16th Street City/State/Zip Madison WI, WI
Phone (262) 257-9628 Email Austin@moore-ct.com
Dwelling Contractor # _____ Dwelling Contractor Qualifier # _____

Square Footage Under Construction

1st Floor 21,080 2nd Floor _____ Basement 21,080 Addition _____ Garage _____

Permit Costs

	Rate	Amount
Project - Per \$1,000 of estimated cost	\$9.50	36,575.00
Building Board	\$75.00	75.00
Footing early start - \$210.00 one and two family; \$280.00 commercial		
Plan Review - \$250.00 one and two family; New Construction		
\$300.00 plus \$27.00/unit commercial; New Construction		300.00
State Seal	\$65.00	
Razing, Interior Demolition	\$85.00 minimum plus	\$0.12/sqft
Moving Buildings over Public Ways	\$230.00 plus	\$0.12/sqft
Fuel Tanks - Per 1,000 gallons	\$24.00	
Re-inspection	\$100.00	

Work started without permit **Double Fee**

Payable to: Village of Fox Point

Total Permit Fee _____

****Minimum Fee \$70.00**

Applicant Signature _____

Rev 0819

Date 8/19/2020

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.054918

Aug 20, 2020

7510 n santa monica

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PLANS - FILING FEE	75.00
24-44440 BUILDING PLANS-FILING FEE	

Total:	75.00
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CHECK	Check No: 14641	75.00
Payor: 7510 n santa monica		

Total Applied:	75.00
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Change Tendered:	.00
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08/20/2020 9:34 AM

**VILLAGE OF FOX POINT
BUILDING BOARD MINUTES**

A meeting of the Building Board was held via Zoom, on Wednesday, September 9, 2020, at 5:00 pm. Those present included:

Justin Racinowski
Jeff Weber
Matt Amman
Kristin Dufek
Lori Rosenthal
Michael Rakow

Notice of the meeting was provided to the North Shore Now and to all others as required by State open meeting laws and posted on the official bulletin boards.

MINUTES

Motion was made by Jeff Weber to approve the minutes from August 12, 2020. Motion was seconded by Kristin Dufek. Motion Passed.

AGENDA

- **Bradley Place, 8007 N Port Washington Dr, proposed freestanding sign.** It was the consensus of the Building Board to approve as submitted.
- **John Stephens, 8017 N Santa Monica Blvd, proposed new front entry stairs.** It was the consensus of the Building Board to approve as submitted.
- **Victor Newton, 8234 N Port Washington Rd, proposed 24X26 detached garage.** It was the consensus of the Building Board to approve as submitted.
- **Brad Fedderly, 7901 N Mohawk Rd, proposed sunroom.** It was the consensus of the Building Board to approve as submitted.
- **Bill Rinehart, 8305 N Regent Rd, proposed 10X12 shed.** It was the consensus of the Building Board to approve as submitted.
- **Arthur Harris, 6441 N Lake Dr, proposed porch addition and deck.** It was the consensus of the Building Board to approve as submitted.
- **Fox Point Church, 7510 N Santa Monica Blvd, proposed addition.** It was the consensus of the Building Board to approve subject to the Porte Cochere to be tabled for redesign and mechanicals/utilities to be screened.

ADJOURN

Motion to adjourn Building Board was made by Kristin Dufek. Motion seconded by Jeff Weber. Motion Passed. Building Board adjourned at 6:04 pm.

Respectfully Submitted,

Michael Rakow
Building Inspector
Village of Fox Point

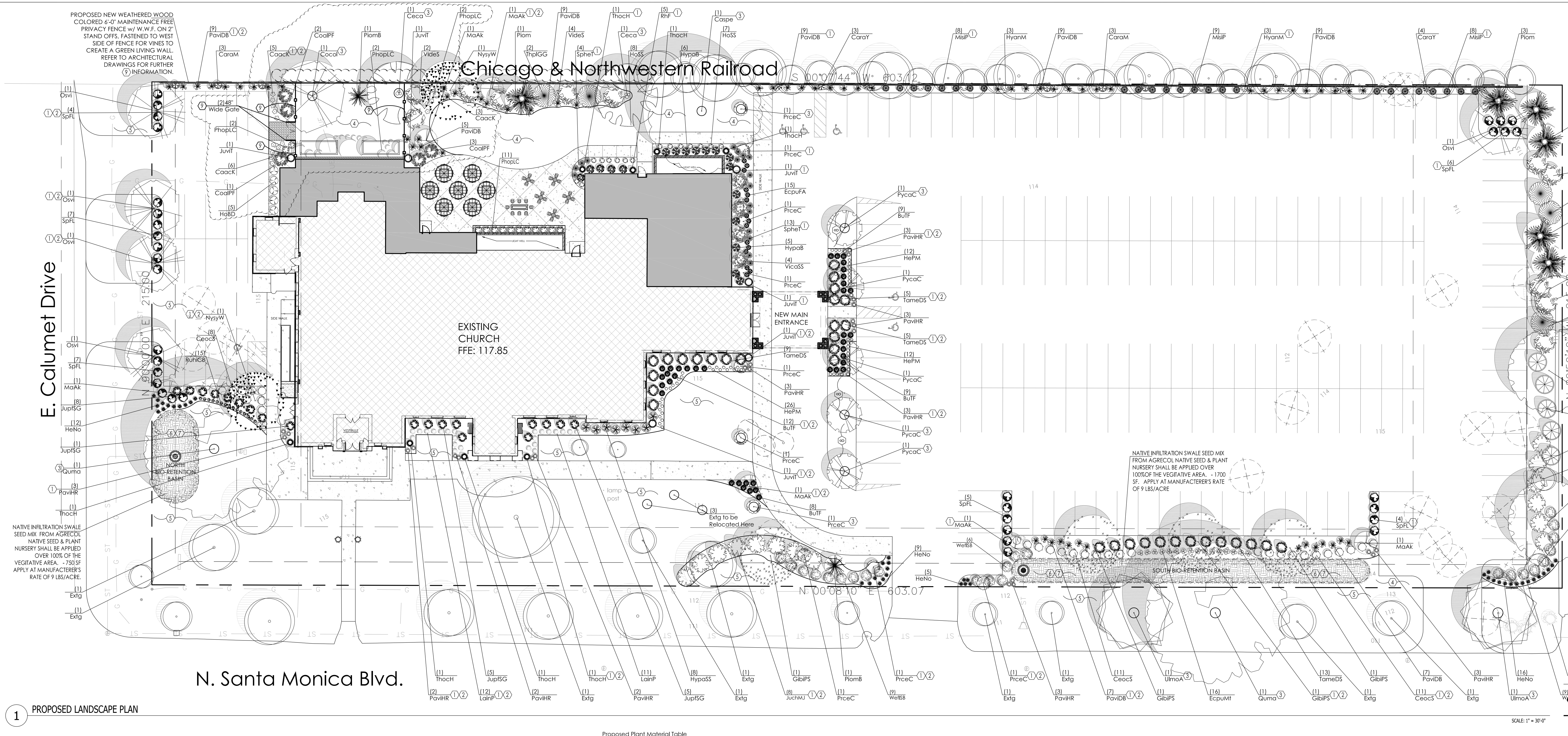
Project:

**FOX POINT
LUTHERAN
CHURCH**
7510 N. Santa Monica Blvd
Fox Point, WI 53217

Issuance and Revisions:

Date	Number	Description
07/10/19		Client Review Submitted
07/16/19		Plan Commission Submitted
03/05/20		Construction Document Submitted
05/20/20		Plan Commission Re-Submitted
09/21/20		Revisions Based on HVAC Units

CONSTRUCTION SET USE NO OTHER - DO NOT SCALE THESE DRAWINGS-



1 PROPOSED LANDSCAPE PLAN

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
1	Cospe		Catalpa speciosa	Western catalpa	2 1/2" - Cal - B&B	1
2	Ceca		Cercis canadensis	Eastern redbud	10" - 12" - Clump B&B	2
4	GBIPs		Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Malesian Tree	3" - Cal - B&B	1.8
2	GydlE		Gymnocladus dioica 'Espresso'	Espresso Kentucky Coffee Tree	1 1/2" - Cal - B&B	1.8
6	MAAK		Molus 'Adirondack'	Adirondack Flowering Crab	2 1/2" - Cal - B&B	1
2	NysyW		Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	2" - Cal - B&B	1
5	Ovi		Ostrya virginiana	American hophornbeam (Ironwood)	2 1/2" - Cal - B&B	1
10	PiceC		Prunus cerasifera 'Ciprazam'	Chancellor Pear	2" - Cal - B&B	1
5	PycaC		Prunus cerasifera 'Chanticleer'	Chanticleer Pear	2 1/2" - Cal - B&B	1
2	Quma		Quercus macrocarpa	Bur oak	2" - Cal - B&B	1.9
2	UmoA		Ulmus 'Morton' Accolade	Accolade Elm	2 1/2" - Cal - B&B	1.9
-	Extg		Existing to Remain	Existing to Remain	Existing	3
3	Extg		Existing to be Relocated	Existing to be Relocated	Existing	-
22	Extg		Existing to be Removed	Existing to be Removed	Existing	4

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
5	JusCM		Juniperus scopulorum 'Moonlow'	Moonlow Juniper	6" - 7" - B&B	5
6	JuvM		Juniperus virginiana Taylor	Taylor Redcedar	5" - 6" - B&B	5
6	Piom		Picea omorika	Serbian Spruce	5" - 7" - B&B	5
2	PiomB		Picea omorika 'Brun'	Brun's Serbian Spruce	5" - 7" - B&B	5
5	ThpGG		Thuja plicata 'Green Giant'	Green Giant Arborvitae	6" - 7" - B&B	5
-	Extg		Existing to Remain	Existing to Remain	Existing	3
1	Extg		Existing to be Removed	Existing to be Removed	Existing	4

SITE INFORMATION

USDA PLANT HARDNESS ZONE	5a (15 to 10 Degrees F)
LOT ZONING	F - Institutional
LOT AREA	129,849 SQ. FT. (2.98 Acres)
SITE BUILDING AREA	22,245 SQ. FT.
TOTAL IMPERVIOUS	94,961 SQ. FT. (2.18 Acres)
TOTAL GREENSPACE	34,848 SQ. FT. (0.80 Acres)
SITE LANDSCAPE PERCENTAGE	38%
TOTAL PARKING STALLS	195 STALLS

DESIGN COMPLIANCE: THIS LANDSCAPE PLAN IS ACCURATE AND IN COMPLIANCE WITH THE VILLAGE OF FOX POINT LANDSCAPE REQUIREMENTS SET FOR IN SECTIONS 310 TREES, SHRUBS AND OTHER PLANT MATERIAL. VILLAGE OF FOX POINT COMPREHENSIVE PLAN IMPLEMENTATION RECOMMENDATIONS, AND INPUT FROM VILLAGE STAFF AND NEIGHBORHOOD INPUT.

CONTRACTOR NOTE: THE LANDSCAPE CONTRACTOR/OFFICE CONTRACTOR ARE RESPONSIBLE TO INSTALL THE LANDSCAPE AS PER THE APPROVED PLAN. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THE THIS APPROVED PLAN, THE LANDSCAPE CONTRACTOR / GENERAL CONTRACTOR ARE RESPONSIBLE FOR UPDATING THE PLAN ACCORDINGLY AND SUBMITTING THOSE REVISED PLANS FOR APPROVAL AND "SIGN OFF" WITH THE VILLAGE OF FOX POINT. THE LANDSCAPE CONTRACTOR / GENERAL CONTRACTOR ARE ALSO RESPONSIBLE FOR VERIFYING THAT ANY PLANT MATERIAL SUBSTITUTIONS OR MODIFICATIONS THAT ARE MADE TO THE APPROVED LANDSCAPE DESIGN DOCUMENTS WILL NOT CHANGE OR ALTER ANY OF THE REQUIRED SUPPORTING LANDSCAPE REQUIREMENT CALCULATIONS. UPON COMPLETION OF THE CONSTRUCTION PROJECT AND FILE THAT AFFIDAVIT WITH THE VILLAGE OF FOX POINT.

LANDSCAPE PLAN GENERAL NOTES

- * PLANT MATERIAL SHOWN ON LANDSCAPE PLAN IS DEPICTED AT MATURE GROWTH. ** AT LEAST SEVENTY-TWO HOURS PRIOR TO ANY EXCAVATION, CONTRACTOR SHALL VERIFY UTILITY LOCATIONS AS GIVEN BY THE ELECTRIC, GAS, TELEPHONE, WATER, SEWER, AND CABLE TELEVISION COMPANIES, UTILITIES OR ENTITIES. REVIEW WITH OWNERS REPRESENTATIVE SITE MECHANICAL, SITE ELECTRICAL AND LIGHTING, SITE GRADING AND DRAINAGE, SITE IRRIGATION AND ALL OTHER DRAWINGS PERTAINING TO UNDERGROUND UTILITY LOCATIONS. RECORD SET OF INFORMATION THE SAME AS IN POSSESSION OF OWNERS REPRESENTATIVE. ALSO REVIEW OWNERS' MARK SETS OF ALL OF THESE DRAWINGS IN POSSESSION OF THE CONTRACTOR OR OWNER. MARK ALL SUCH UTILITIES ON THE SITE PRIOR TO COMMENCING. COORDINATE WITH OWNER BEFORE AND DURING CONSTRUCTION. REPAIR ANY DAMAGE TO ANY SYSTEM THAT CAUSED BY LANDSCAPE CONTRACTOR AT NO COST TO OWNER.
- ALL PLANTINGS SPECIFIED FOR THE FOX POINT LUTHERAN CHURCH PROJECT PLANTING TABLES SHALL COMPLY WITH STANDARDS AS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1 2014 AND ANSI STANDARDS FOR PLANTING 2012.
- ALL DEVIATIONS FROM THE APPROVED FOX POINT LUTHERAN CHURCH PROJECT PLANS SHALL BE NOTED ON THE RECORD DRAWINGS BY THE CONTRACTOR AND MAY BE EXECUTED ONLY WITH PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT AND OWNERS REPRESENTATIVE. VERBAL AGREEMENTS OR REVISIONS WITHOUT A CHANGE ORDER WILL NOT BE RECOGNIZED BY LANDSCAPE ARCHITECT AND OWNER.
- ALL PLANTS MUST BE DEAD AND SELECTED FOR THE SPECIES SPECIFIED ON THE PLANS. ANY SPECIES SUBSTITUTIONS MUST BE APPROVED IN WRITING BY LANDSCAPE ARCHITECT. THE SIZES OF PLANT MATERIAL LISTED HEREIN IS A MINIMUM ACCEPTABLE SIZE. ADDITIONALLY, IF EXCESSIVE PRUNING REDUCES THE CROWN THE PLANT SHALL BE REPLACED. PROTECT PUBLIC FROM CONSTRUCTION WITH BARRIERS AND BARRICADES.
- ALL AREAS THAT WERE DISTURBED DURING CONSTRUCTION AND AREAS NOT COVERED WITH PAVEMENT, BUILDING, PLANTING BEDS, OR TREE PITS ARE TO BE TOPSOILED 3" DEEP (MIN.) AND SHALL BE SOILED/SEED/ED WITH SPECIFIED LAWN GRASS. LANDSCAPE CONTRACTOR SHALL INCLUDE COST PER SQUARE YARD FOR ADDITIONAL SEED ORDER WILL NOT BE RECOGNIZED BY LANDSCAPE ARCHITECT AND OWNER.
- CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR PROPER PLANTING AND INSTALLATION OF ALL LANDSCAPE MATERIAL. QUANTITIES ON PLANT MATERIALS LIST ARE FOR CONVENIENCE OF BIDDING ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLANTS SHOWN ON LANDSCAPE PLANS AND COVERAGE OF ALL AREAS DELINEATED. THE PLANS ARE TO SUPERSEDE THE PLANT LIST IN ALL CASES.
- CONTRACTOR IS RESPONSIBLE FOR ALL ESTIMATING AND BIDDING. ALL AREAS, QUANTITIES MATERIALS SHOULD BE FIELD VERIFIED WITH SITE CONDITIONS.
- WHERE DISCREPANCIES OCCUR BETWEEN THE LANDSCAPE PLANS AND/OR ARCHITECTURAL AND/OR THE CIVIL DRAWINGS (AND ANY OTHER SITE DRAWINGS) THE DISCREPANCIES MUST BE BROUGHT TO THE LANDSCAPE ARCHITECTS ATTENTION FOR COORDINATION AND RESOLUTION. ALL DISCREPANCIES, NO MATTER HOW SMALL, SHALL BE REMOVED PRIOR TO THE PROPOSED SITE PRIOR TO THE START OF CONSTRUCTION AND DURING THE MAINTENANCE PERIOD.
- GENERAL CONTRACTOR SHALL LEAVE THE SITE FREE OF CONSTRUCTION DEBRIS. ALL LAWN AND PLANTING AREAS SHALL SLOPE TO DRAIN A MINIMUM OF 2% UNLESS NOTED OTHERWISE AND REVIEWED WITH OWNERS REPRESENTATIVE FOR FINAL APPROVAL.
- FINISH GRADES FOR DRIVE AND GRASS COVER AREAS SHALL BE 1" BELOW TOP OF EXISTING PAVEMENTS AND CURBS, UNLESS NOTED OTHERWISE ON THE PLANS. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- ALL PERENNIAL ANNUAL AND GROUND COVER AREAS TO RECEIVE A BLEND OF ORGANIC SOIL AMENDMENTS PRIOR TO PLANTING. THE FOLLOWING MATERIALS INTO EXISTING TOPSOIL TO A DEPTH OF APPROXIMATELY 8" A DEPTH OF 12" IN TREE PITS. PROPORTIONS AND QUANTITIES MAY REQUIRE ADJUSTMENT DEPENDING ON THE CONDITION OF EXISTING SOIL. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- PER EVERY 100 SQUARE FEET ADD: ONE 2 CUBIC FOOT BALE OF PEAT MOSS, 2 POUNDS OF 5-10-5 GARDEN FERTILIZER, 1/4 CUBIC YARD OF COMPOSTED MANURE OR OTHER COMPOSTED, ORGANIC MATERIAL.
- ALL SHRUBS TO BE POCKET PLANTED WITH A 3/8" WOOD MULCH OF COMPOSTED, ORGANIC MATERIAL AND EXISTING SOIL. INSTALL TOPSOIL INTO ALL BEDS AS NEEDED TO ACHIEVE PROPER GRADE. REMOVE ALL EXISTING GRAVEL, CLAY AND STONES. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- PLANT ALL TREES SLIGHTLY HIGHER THAN FINISHED GRADE AT ROOT FLARE. BACK FILL HOLE WITH 2/3 EXISTING TOPSOIL AND ORGANIC SOIL AMENDMENTS SPECIFIED IN NOTE 15. AVOID ANY AIR POCKETS. DISCARD ANY GRAVEL, CLAY OR STONES. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- ALL TREES TO BE INSTALLED, STAKED AND GUIDED ACCORDING TO DETAILS. REFER TO ANSI STANDARDS FOR PLANTING 2012 AND DETAILS ON LSP1.2 FOR FURTHER INFORMATION.
- PROVIDE A 4'-0" 3'-0" DIAMETER MULCH RING AT THE FOOT BALL FLARE OF ALL LAWN TREES.
- ALL PLANTING AREAS TO BE WATERED AT THE TIME OF PLANTING, THROUGHOUT CONSTRUCTION AND UPON COMPLETION OF PROJECT AS REQUIRED.
- WHERE SPECIFIED, ALL PLANT BEDS, PITS AND TREE RINGS ARE TO RECEIVE A MINIMUM OF 2" - 3" DRESSING OF SHREDDED HARDWOOD DARK BARK MULCH SHAVINGS FREE OF GROWTH, WEEDS, FOREIGN MATTER DERIVATIVES TO PLANT LIFE OR GERMINATION INHIBITING INGREDIENTS. LANDSCAPE CONTRACTOR TO PROVIDE A SAMPLE TO OWNER FOR APPROVAL. CONTRACTOR TO TAKE CARE WITH INSTALLATION NOT TO DAMAGE OR COVER PLANTS. REFER TO LSP1.2 FOR FURTHER INFORMATION.
- LAWN INSTALLATION: CONTRACTOR TO FURNISH AND PREPARE TOPSOIL (3" MIN) AND SEED BED (REMOVE ALL STONES 1" OR LARGER). APPLY STARTER FERTILIZER AND SEED INFORMA. PROVIDE A MULCH COVERING SUITABLE TO GERMINATE AND ESTABLISH TURF. EROSION CONTROL, MESH SHOULD BE USED IN SWALES AND STEP GRASSES WHERE APPLICABLE. METHODS OF INSTALLATION MAY VARY AT THE DISCRETION OF CONTRACTOR. IT IS HIGHER RESPONSIBILITY TO ESTABLISH AND GUARANTEE A SMOOTH, UNIFORM, QUALITY TURF. IF STRAW MULCH IS USED AS A COVERING, A TACKLER MAY BE NECESSARY TO AVOID WIND DAMAGE.
- LANDSCAPE / SITE DEMOLITION CONTRACTOR TO VERIFY LOCATIONS OF EXISTING TREES AND SHRUBS TO BE RELOCATED. ALL PLANT MATERIAL TO BE RELOCATED TO BE CLEARLY TAGGED WITH MARKING TAPE MOVED BEFORE AND SITE DEMOLITION TO BEGIN.
- LANDSCAPE / SITE DEMOLITION CONTRACTOR TO VERIFY LOCATIONS OF EXISTING TREES AND SHRUBS TO BE SALVAGED AND CLEARLY TAG THEM WITH MARKING TAPE AND CONSTRUCTION FENCE.

Proposed Plant Material Table

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
38	ButF		Buddleja x 'Podaras13'	Butterfly Petite Tuffi Full Pink Butterfly Bush	18" - Cont	6
30	CeacS		Cephalanthus occidentalis 'SMCOS'	Sugar Snap Buttonbush	18" - 24" - Cont	6
5	CoalPF		Cornus alba 'Prairie Fire'	Prairie Fire Dogwood	18" - 24" - Cont	6
1	Cocal		Corylus columba	Turkish Hazel	24" - 36" - Cont	6
13	HypaB		Hydrangea paniculata 'Bobo'	Bobo Hardy Hydrangea	18" - Cont	6
8	HypaSS		Hydrangea paniculata 'SMHPCW'	Stawberry Shake Hydrangea	18" - 24" - Cont	6
15	PhopLC		Physocarpus opulifolius 'Podaras 3'	Lemon Candy Ninebark	18" - Cont	6
34	SPFL		Spiraea x 'Fire Light'	Fire Light Spirea	18" - Cont	6
4	VicaSS		Viburnum Carolae 'J.N.Select S'	Sugar n' Spice Karanapace Viburnum	18" - 24" - Cont	6
11	VicaSS		Viburnum dentatum 'Synnvestad'	Chicago Lustre Arrowwood Viburnum	3" - B&B	6
24	WeilSB		Weigelia florida 'Bokrasopin'	Sonic Bloom Pink Reblooming Weigela	18" - 24" - Cont	6

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
23	LainP		Lavandula x intermedia 'Provence'	Provence French Lavander	18" - Cont	6
5	RHF		Rhododendron x 'Firestorm'	Firestorm Rhododendron	18" - Cont	6

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
15	EcpuFA		Echinacea purpurea 'Fragrant Angel'	Fragrant Angel Coneflower	4 1/2" pot	7
16	EcpuMT		Echinacea purpurea 'Mistral'	Mistral Coneflower	4 1/2" pot	7
43	HeNo		Hemerocallis x 'Nastaleri'	Traphylotek Nastaleri Daylily	4 1/2" pot	7
50	HePM		Hemerocallis x 'Pardon Me'	Pardon Me Dwarf Daylily	4 1/2" pot	7
5	HoSD		Hosta x 'Big Daddy'	Big Daddy Plantain Lily	1-Gal - Cont	7
15	HoSS		Hosta x 'So Sweet'	So Sweet Hosta	1-Gal - Cont	7
15	RuHCB		Rutadeckia hirta 'Cherry Brandy'	Cherry Brandy Gloxiosa Day	4 1/2" pot	7

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
17	CoacK		Calamagrostis acutiflora 'Karl Forester'	Karl Forester Feather Reed Grass	1-Gal - Cont	7
25	MiaP		Miscanthus sinensis 'Purpureus'	Purple Silver Grass	1-Gal - Cont	7
64	PavIDB		Panicum virgatum 'Dallas Blues'	Dallas Blues Switch Grass	1-Gal - Cont	7
30	PavHR		Panicum virgatum 'Hot Rod'	Hot Rod Switch Grass	1-Gal - Cont	7
17	Sphet		Sporobolus heterolepis 'Tara'	Tara Prairie Dropseed	1-Gal - Cont	7

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
7	Caray		Campsis radicans 'Flava'	Yellow Trumpet Creeper	2" - 3" - Cont	7
6	Carom		Campsis radicans 'Monbal'	Bobaa Sunset Trumpet Creeper	2" - 3" - Cont	7
6	Hyam		Hydrangea anomala petalata 'Miranda'	Miranda Climbing Hydrangea	2" - 3" - Cont	7

Quantity	Code Name	Symbol	Scientific Name	Common Name	Planting Size	Comments
14	JuchMJ		Juniperus chinensis 'Mint Julep'	Mint Julep Juniper	18" - 24" - B&B	6
19	JupISG		Juniperus x pfitzeriana 'Morsan'	Sea of Gold Juniper	18" - 24" - B&B	6
33	TamDS		Toxus x media 'Densiformis Select'	Select Dense Spreading 'Yew	18" - 24" - B&B	6
8	Thoch		Thuja occidentalis 'Holmsstrup'	Holmsstrup Dwarf Arborvitae	2" - 3" - B&B	6

Comments

- STRAIGHT CENTRAL LEADER, FULL & EVEN CROWN. PRUNE ONLY AFTER PLANTING.
- WELL BALANCED, MULTISTEMMED TREE WITH A MINIMUM OF (3) STRONG CANES AND FULL APPEARANCE.
- PRUNE EXISTING TREE REMOVE ANY DEAD, DISEASED OR HAZARDOUS LIMBS. THIN OUT AS REQUIRED & RAISE CANOPY FOR SAFETY & VISIBILITY FOR BOTH PEDESTRIANS & MOTORISTS.
- SHOULDER TREE TRUNK AND GROUND STUMP TO A MINIMUM OF 1" BELOW ADJACENT GRADE. REMOVE GRASSING OVER A FULL CROWN TOPSOIL & SOW TURF GRASS SEED AS REQUIRED.
- EVENLY SHAPED UPRIGHT TREE WITH FULL BRANCHING TO THE GROUND.
- FULL WELL ROOTED PLANT. EVENLY SHAPED.
- FULL WELL ROOTED PLANT.
- MAIL ONLY.
- REPLACEMENT STREET TREE.

LANDSCAPE PLAN CODED CONSTRUCTION NOTES

- MULCH BED AREA. DRESS WITH 2"-3" OF SHREDDED HARDWOOD BARK MULCH. TAKE CARE WITH INSTALLATION NOT TO DAMAGE OR COVER PLANTS. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR FURTHER INFORMATION.
- EARTHEN BED EDGE (SHOVEL POINT) LANDSCAPE EDGE. TYPICAL ALL PLANT MATERIAL AREAS. DRESS WITH 2"-3" OF SHREDDED HARDWOOD BARK MULCH. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR FURTHER INFORMATION.
- MULCHED 4'-0" DIA. TREE RING BED AREA w/ EARTHEN BED EDGE (SHOVEL POINT) LANDSCAPE EDGE AS REQUIRED. DRESS WITH 2"-3" OF SHREDDED HARDWOOD BARK MULCH. REFER TO LSP1.2.
- SEEDED AREAS OF TURF GRASS. REPAIR ANY AND ALL TURF DAMAGE FROM THE CONSTRUCTION PROCESS. IT IS VERY IMPORTANT TO FOLLOW THE MANUFACTURERS INSTALLATION INSTRUCTIONS REGARDING THE TURF GRASS FOR PROPER GERMINATION AND SURVIVABILITY OF THE SEED MIX. ALSO REFER TO GENERAL NOTES FOR PREPARATION OF TOP SOIL AND SEED INSTALLATION. REFER TO GRADING PLAN, GENERAL NOTES AND SPECIFICATIONS FOR FURTHER INFORMATION.
- THE PROJECT HAS ESTABLISHED TURF. REPAIR ANY AND ALL TURF DAMAGE FROM THE CONSTRUCTION PROCESS. RE-ESTABLISH TURF IN ANY AREAS WHERE EXISTING TURF IS DEAD. PROPERLY SEED EFFECTED AREAS OF TURF GRASS. IT IS VERY IMPORTANT TO FOLLOW THE MANUFACTURERS INSTALLATION INSTRUCTIONS REGARDING THE TURF GRASS FOR PROPER GERMINATION AND SURVIVABILITY OF THE SEED MIX. ALSO REFER TO GENERAL NOTES FOR PREPARATION OF TOP SOIL AND SEED INSTALLATION. REFER TO GRADING PLAN, GENERAL NOTES AND SPECIFICATIONS FOR FURTHER INFORMATION.
- AREA FOR BIO-RETENTION BASINS TO BE SEED WITH INFILTRATION SWALE SEED MIX FROM AGRECOL. THE INFILTRATION SWALE SEED MIX contains 11 of 12 native permanent grass / sedge species and 10 of 12 native forbs species. Apply at 9 lbs/acre. IT IS VERY IMPORTANT TO FOLLOW THE MANUFACTURERS INSTALLATION INSTRUCTIONS REGARDING THE SEED MIXES FOR PROPER GERMINATION AND SURVIVABILITY. IT IS RECOMMENDED AS PART OF THE ONGOING MAINTENANCE THAT ANY BROADCAST EVERGREEN AND CONIFEROUS TREES AND SHRUBS (EXCLUDING ARBORVITAE) RECEIVE AN APPLICATION OF AN ANTI-DESICANT SPRAY TO REDUCE THE LOSS OF MOISTURE DUE TO WINTER DESICCATION.
- 6'-0" TALL TREX SECTIONS COMPOSITE FENCING IN WINCHMEISTER GRAY COLOR. REFER TOMANUFACTURERS INSTALLATION INSTRUCTIONS AND SPECIFICATINS FOR FURTHER INFORMATION. REFER DETAILS TO LSP1.3 AND LSP1.3 FOR FURTHER INFORMATION.

Date of Drawing:	09/21/20
Scale:	1" = 20'-0"
Drawn By:	MCD
Job Number:	L19-071
Sheet Number:	

LSP1.1



9/25/2020

ADDITION AND RENOVATION

FOX POINT LUTHERAN CHURCH

7510 N SANTA MONICA BLVD, FOX POINT, WI 53217

PROJ. NO. 2016-93

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9/25/2020

ADDITION AND RENOVATION

FOX POINT LUTHERAN CHURCH

7510 N SANTA MONICA BLVD, FOX POINT, WI 53217

PROJ. NO. 2016-93

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