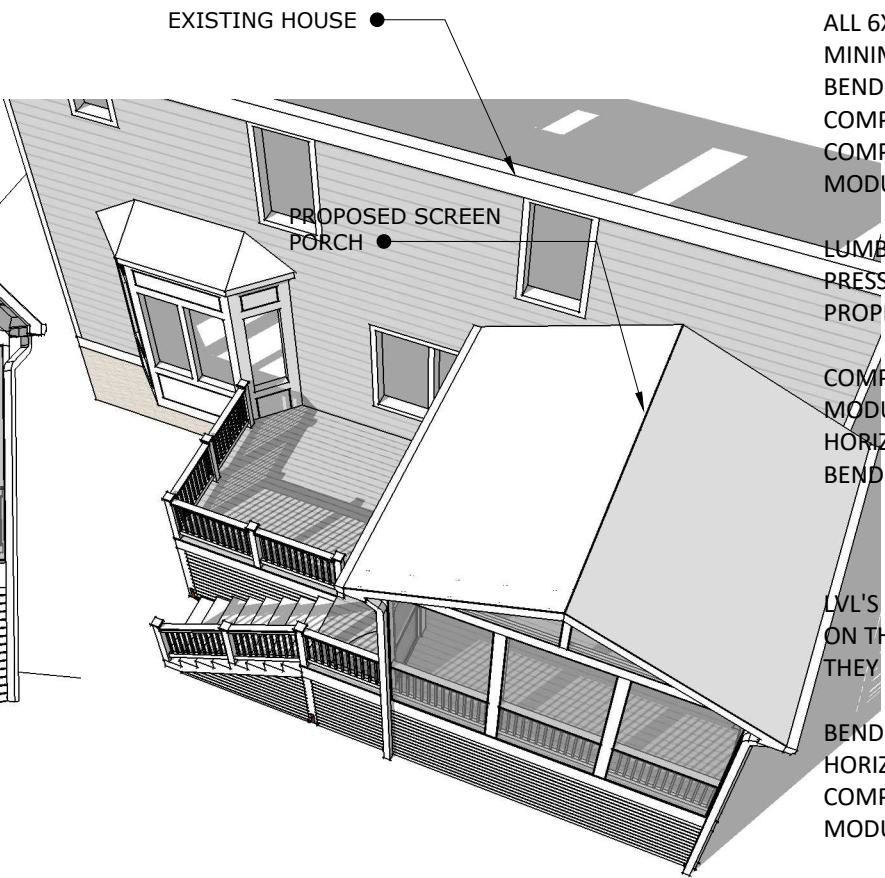
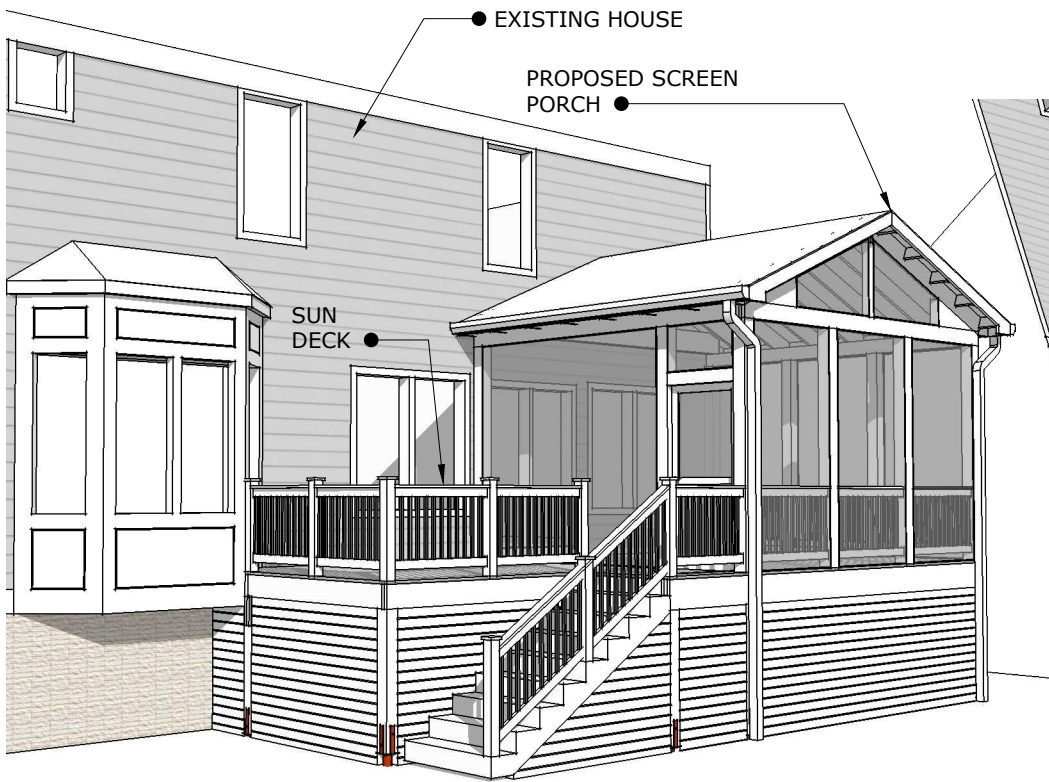


SCREEN PORCH & DECK TO THE SCHAMPERS RESIDENCE



WOODS

ALL 6X6 POST SHALL BE SOUTHERN YELLOW PINE SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
BENDING STRESS "Fb" =850 PSI
COMPRESSION PARALLEL TO GRAIN "Fc" =575 PSI
COMPRESSION PERPENDICULAR TO GRAIN "Fc" =375 PSI
MODULUS OF ELASTICITY "E" =1,200,000 PSI

LUMBER FOR DECKS SHALL BE MINIMUM #2 SOUTHERN YELLOW PINE, PRESSURE TREATED TO 0.40 LB RETENTION,HAVING THE FOLLOWING PROPERTIES:

COMPRESSION PERPENDICULAR TO GRAIN "Fc" =565 PSI
MODULUS OF ELASTICITY "E" =1,600,000 PSI
HORIZONTAL SHEAR "Fv" =90 PSI
BENDING STRESS "Fb" =1500,1250,1200,1050,&975 for 2X4,2X6,2X8,2X10 &2X12 RESPECTIVELY.

LVL'S (LAMINATED VENER LUMBER) SHALL BE 1-3/4" WIDE .OF THE DEPTH SPECIFIED ON THE PLANS .AND SHALL BE SECURED TOGETHER AS DIRECTED BY THE MANUFACTURER. THEY SHALL HAVE THE FOLLOWING PROPERTIES:

BENDING STRESS "Fb" = 2600 psi for 1' depth , for other multiply by [12/d] 0.136
HORIZONTAL SHEAR "Fv" =285 PSI
COMPRESSION PERPENDICULAR TO GRAIN "Fc" =750 PSI
MODULUS OF ELASTICITY "E" =1,900,000 PSI

STRUCTURAL NOTES

DESIGN CRITERIA

FLOOR LIVE LOAD: 40 PSF,
EXCEPT IN SLEEPING ROOMS WHERE
LIVE LOAD =30PSF

ROOF LIVE LOAD =30 PSF,
GROUND SNOW LOAD= 35 PSF
HANDRAILS LIVE LOAD = 200 PSF
STAIRS =40 PSF OR 300 LBS CONCENTRATED
LOAD ACTING OVER 4 SQ. INCHES

BASIC WIND SPEED = 116 MPH,3 SECOND GUST,20 PSF
MINIMUM

SEISMIC DESIGN CATEGORY = A, AS PER IRC R301.2

FROST/FOOTING DEPTH = 30 INCHES

SOIL BEARING CAPACITY = 1500 PSF,ASSUME SANDY CLAY AS
PER IRC R401.4.1

CONCRETE : CONCRETE FOR FOOTINGS TO BE MIN 3000 PSI,
NORMAL WEIGHT, AIR ENTRAINED.

CONCRETE

1: ALL CONCRETE CONSTRUCTION SHALL CONFORM
TO THE ACI CODE 318-95

2:28-DAY CONCRETE STRENGTH SHALL BE A S
FOLLOWS: STONE CONCRETE:
COURSE AGGREGATE SHALL CONFORM TO ASTM
C33, F C =3000 PSI

3: DO NOT PLACE CONCRETE OVER FROZEN SOIL

4: SLABS ON GRADE SHALL BE 4" THICK CONCRETE
AND REINFORCED WITH 6X6 W1.4XW1.4
WWF,UNLESS OTHERWISE NOTED ON PLANS. LAP
MESH 8" IN EACH DIRECTION. PLACE CONCRETE
OVER 6 MIL. POLYETHYLENE VAPOR BARRIER AND
4" MINIMUM COURSE OF AGGREGATE OR AS
RECOMMENDED BY SOILS ENGINEER. THE
AGGREGATE LAYER SHALL BE PLACED OVER FIRM
NATURAL SUBGRADE OR A COMPACTED AND
CONTROLLED FILL. FILL UNDER
SLABS SHALL BE COMPACTED IN 8" LAYERS TO 95%
MAX. DENSITY. USE AIR-ENTRAINED AT ALL
EXTERIOR SLABS.

CONTENT

A-01 NOTES/COVER PAGE
A-02 FOUNDATION PLAN
A-03 FRAMING PLAN
A-04 FLOOR PLAN
A-05 ROOF FRAMING PLAN
A-06 REAR ELEVATION
A-07 LEFT-SIDE ELEVATION
A-08 RIGHT-SIDE ELEVATION
A-09 SECTION A-A
A-10 SECTION B-B
A-11 CONSTRUCTION DETAILS
A-12 CONSTRUCTION DETAILS
A-13 HELICAL PIER DETAILS
A-14 ELECTRICAL PLAN

GENERAL NOTES

GENERAL SCOPE OF WORK

SCREEN PORCH AND SUN DECK
ADDITION .

SCOPE OF WORK / PROJECT DESCRIPTION

SCREEN PORCH WITH GABLE ROOF.
SUN DECK / GRILL DECK
STAIR ACCESS

LAND DISTURBANCE

ONLY LAND DISTURBANCE WILL BE
TO INSERT HELICAL PIERS

PROJECT NAME

**SCHAMPERS
SCREEN PORCH/DECK**

Drwg Date: Aug. 26th, 2019

ADDRESS

**127 Lewis st. NW.
Vienna VA 22180**

SHEET NAME

NOTES/COVER PAGE

LAST UPDATE

October 30, 2019

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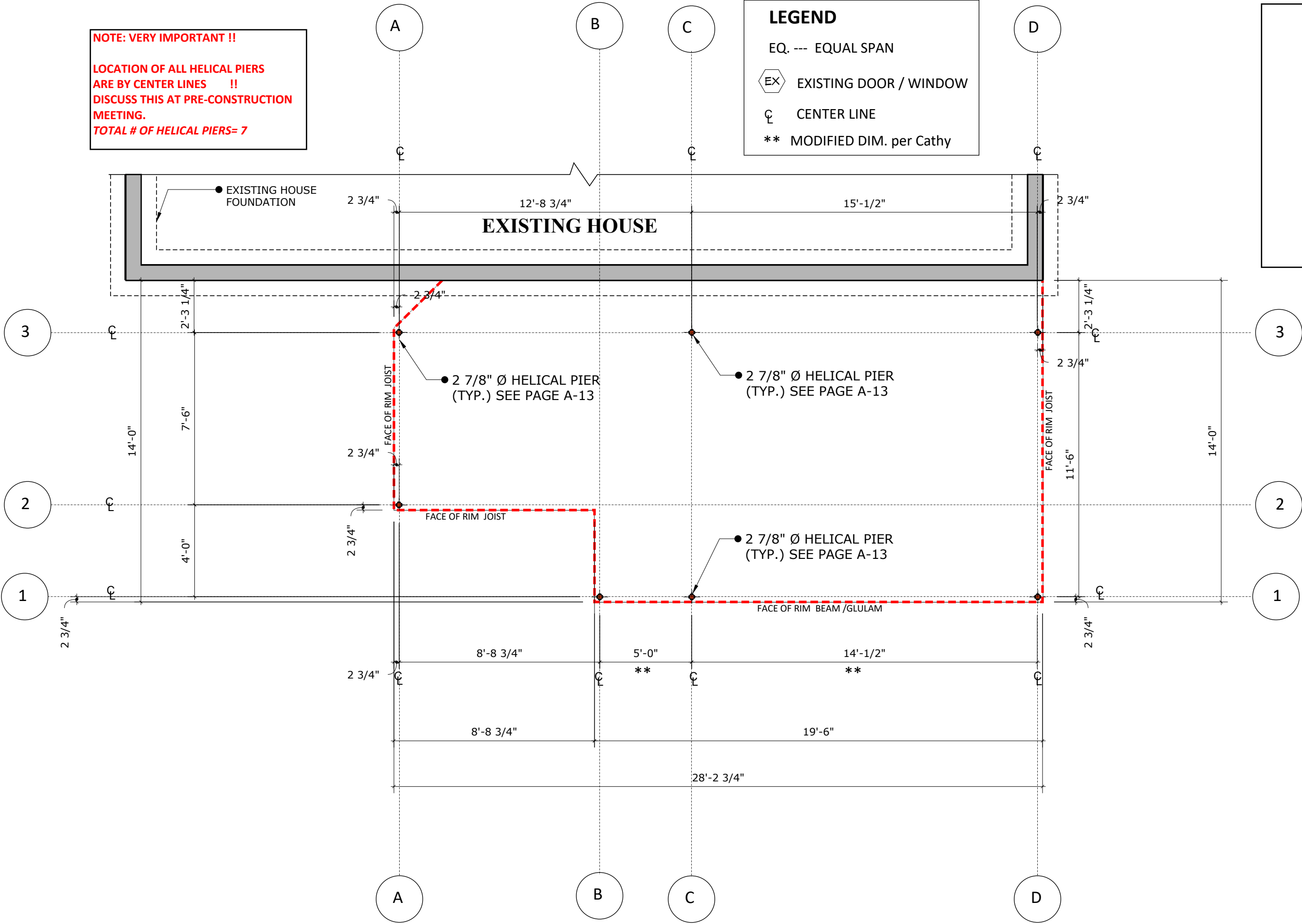
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A-01

NOTE: VERY IMPORTANT !!
LOCATION OF ALL HELICAL PIERS
ARE BY CENTER LINES !!
DISCUSS THIS AT PRE-CONSTRUCTION
MEETING.
TOTAL # OF HELICAL PIERS= 7

LEGEND

- EQ. --- EQUAL SPAN
- EX EXISTING DOOR / WINDOW
- CL CENTER LINE
- ** MODIFIED DIM. per Cathy



FOUNDATION PLAN

1/4"=1'-0"

PROJECT NAME

SCHAMPERS
SCREEN PORCH/DECK

Drwg Date: Aug. 26th, 2019

ADDRESS

127 Lewis st. NW.
Vienna VA 22180

SHEET NAME

FOUNDATION PLAN

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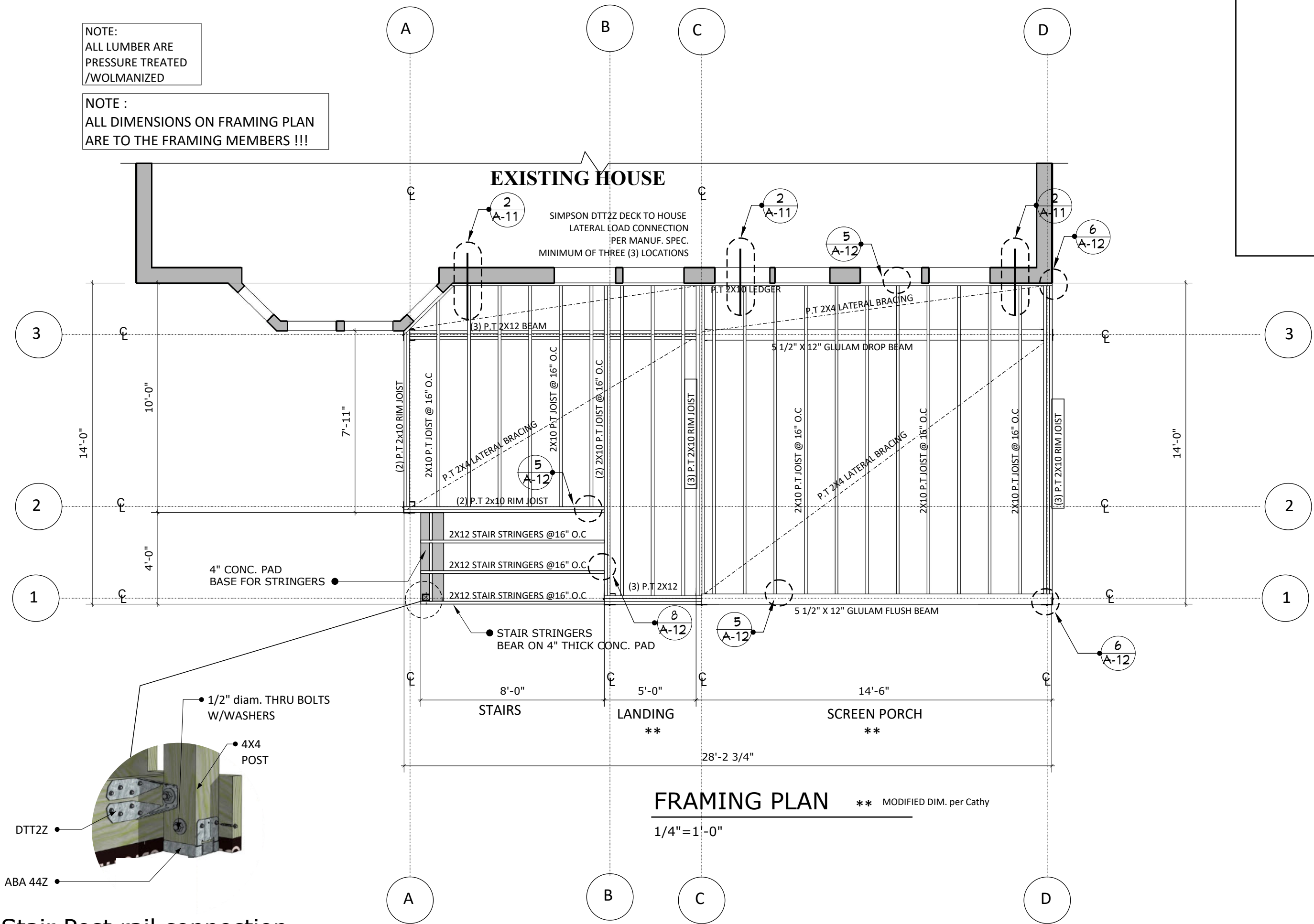
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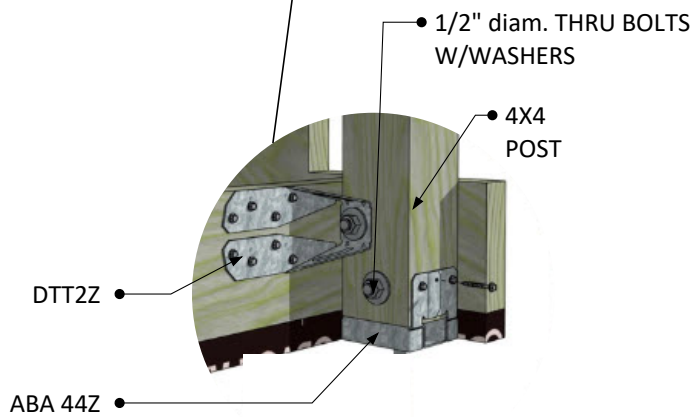
A-02

NOTE:
ALL LUMBER ARE
PRESSURE TREATED
/WOLMANIZED

NOTE :
ALL DIMENSIONS ON FRAMING PLAN
ARE TO THE FRAMING MEMBERS !!!



FRAMING PLAN ** MODIFIED DIM. per Cathy
1/4"=1'-0"



Stair Post rail connection

PROJECT NAME

**SCHAMPERS
SCREEN PORCH/DECK**

Drwg Date: Aug. 26th, 2019

ADDRESS

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Vienna VA 22180**

SHEET NAME

FRAMING PLAN

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REVISIONS

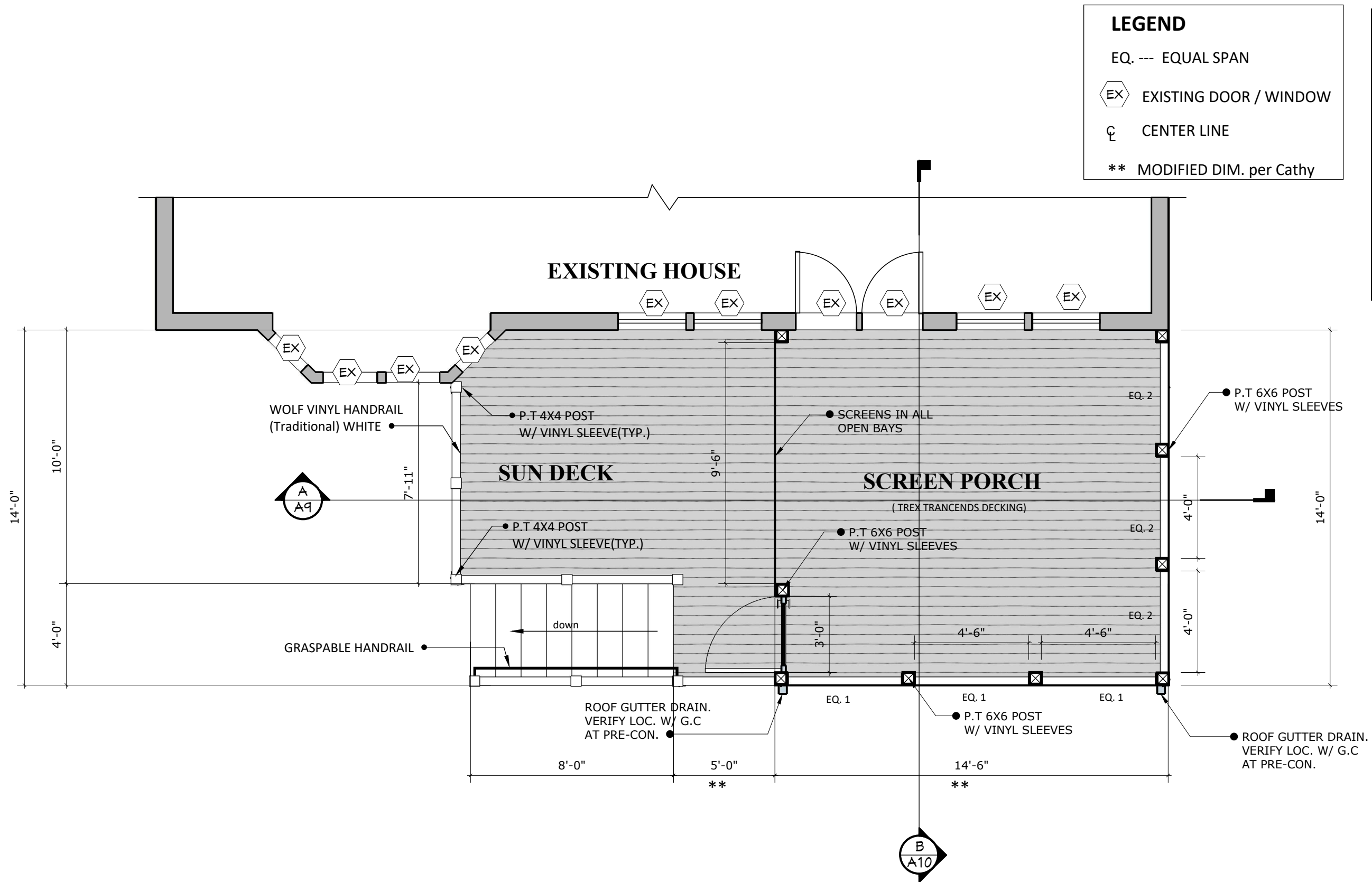
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SEE DRAWING

SHEET NUMBER

A-03



LEGEND

EQ. --- EQUAL SPAN

EX EXISTING DOOR / WINDOW

CL CENTER LINE

** MODIFIED DIM. per Cathy

FLOOR PLAN/ LAYOUT

1/4"=1'-0"

PROJECT NAME

SCHAMPERS
SCREEN PORCH/DECK

Drwg Date: Aug. 26th, 2019

ADDRESS

127 Lewis st. NW.
Vienna VA 22180

SHEET NAME

FLOOR PLAN

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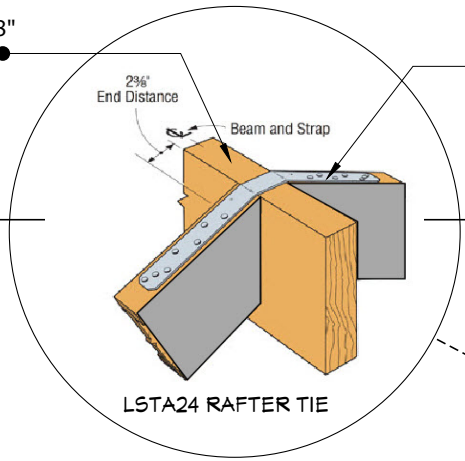
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SHEET NUMBER

A-04

(2) 1 3/4" X 11 7/8" LVL RIDGE BEAM

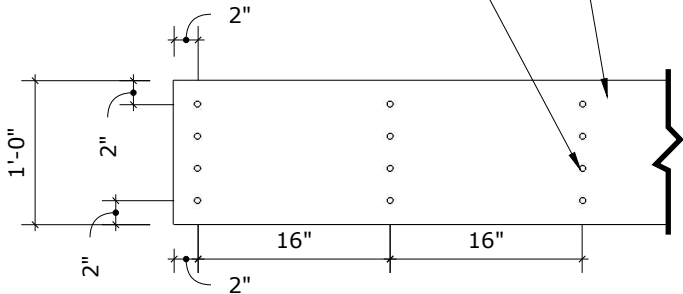


LSTA24 RAFTER TIE

EXISTING HOUSE

4X4 SUPPORT POST FOR RIDGE BEAM

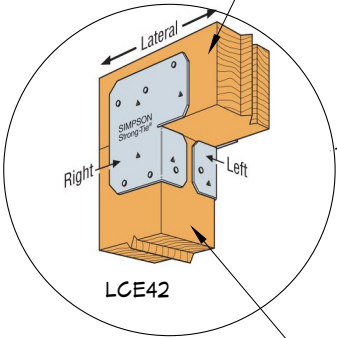
2- 1 3/4" X 11 7/8" LVL BEAM (WOLMANIZED)
10d THREADED NAIL OR #10 WOOD SCREWS @ 16" O.C



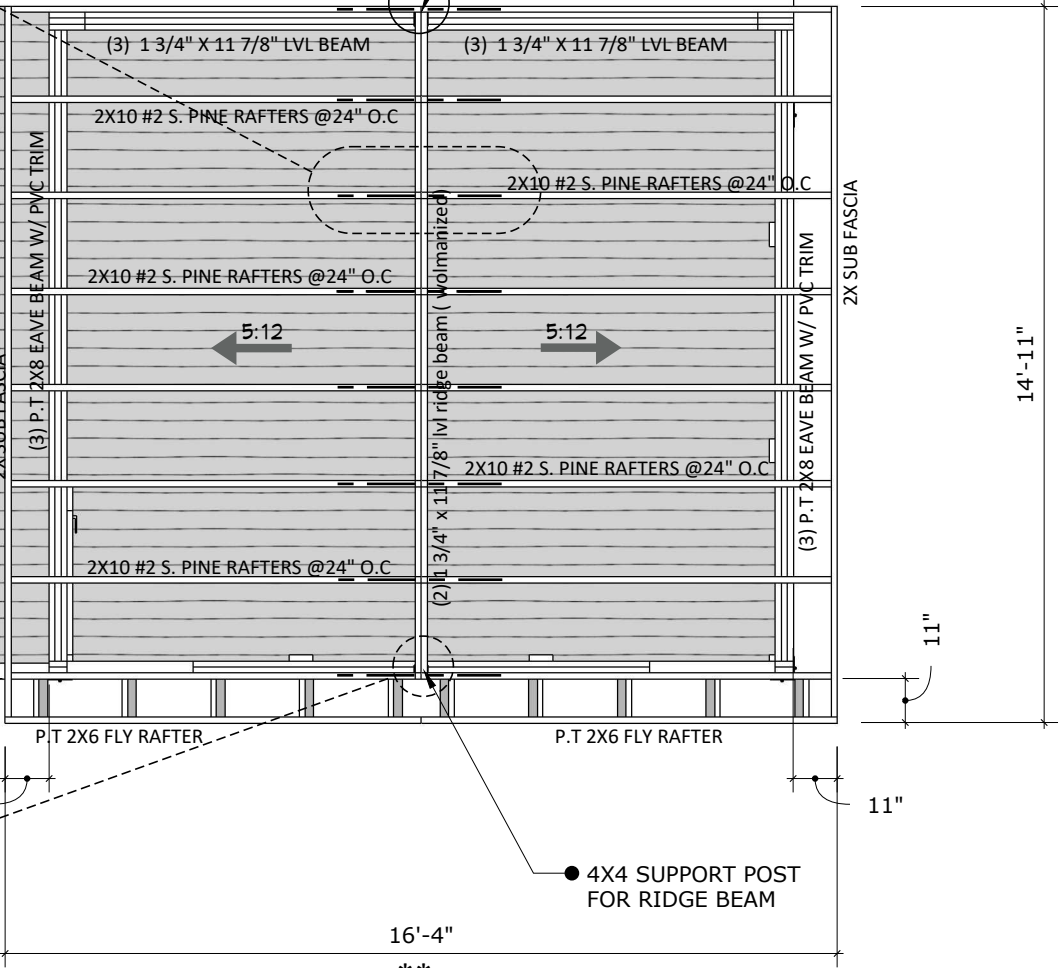
NAILING PATTERN

3/4"=1'-0"

(2) 1 3/4" X 11 7/8" LVL RIDGE BEAM



P.T 4X4 SUPPORT POST

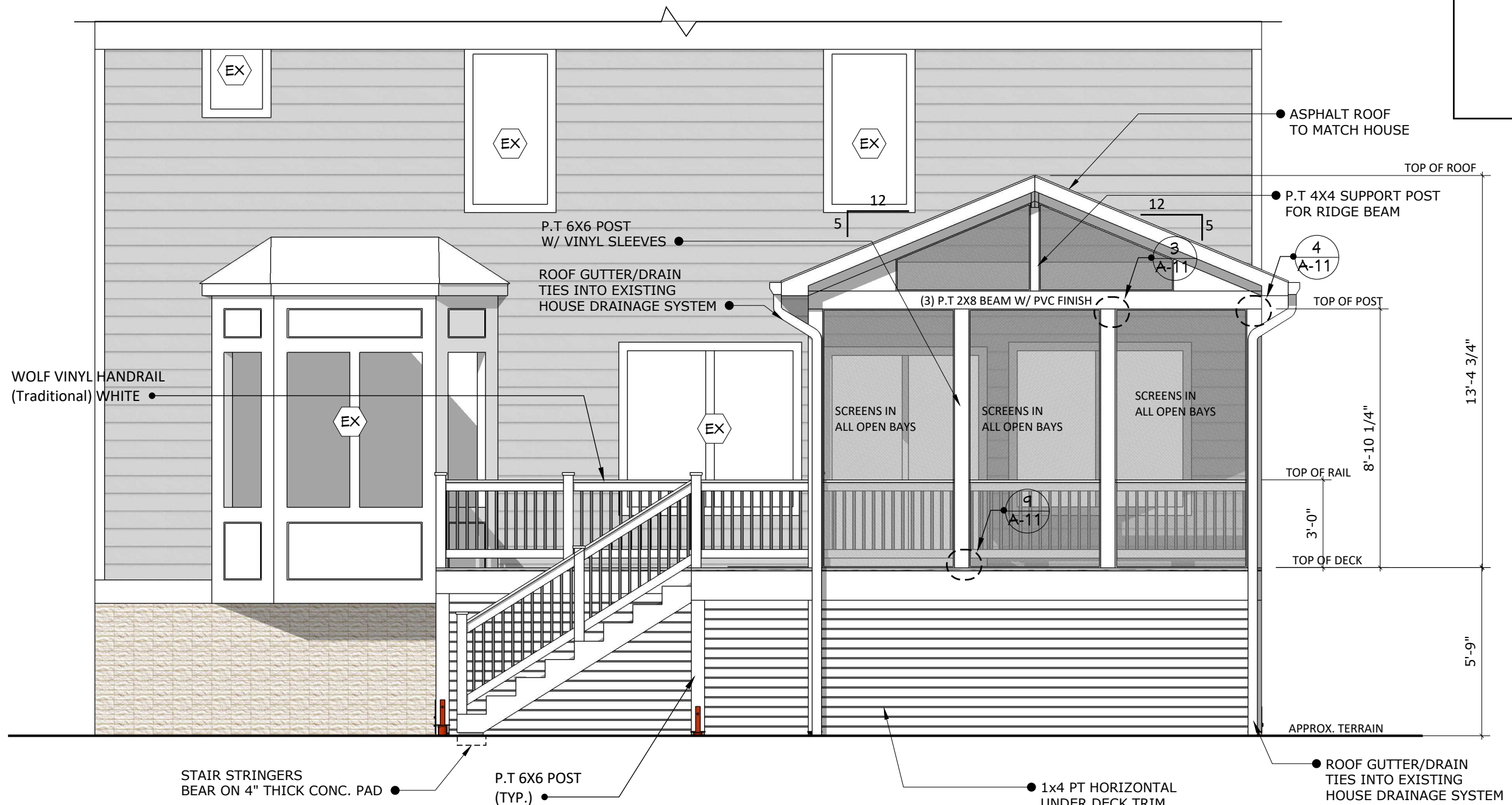


ROOF FRAMING PLAN

1/4"=1'-0"

** MODIFIED DIM. per Cathy

PROJECT NAME
SCHAMPERS SCREEN PORCH/DECK Drwg Date: Aug. 26th, 2019
ADDRESS
127 Lewis st. NW. Vienna VA 22180
SHEET NAME
ROOF FRAMING PLAN
LAST UPDATE
October 30, 2019
REVISIONS
DATE DESCIP.
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SCALE
SEE DRAWING
SHEET NUMBER
A-05



REAR ELEVATION

1/4"=1'-0"

NOTE: LOCATION OF ACCESS GATE / DOOR TBD.

PROJECT NAME

**SCHAMPERS
SCREEN PORCH/DECK**

Drwg Date: Aug. 26th, 2019

ADDRESS

**127 Lewis st. NW.
Vienna VA 22180**

SHEET NAME

REAR ELEVATION

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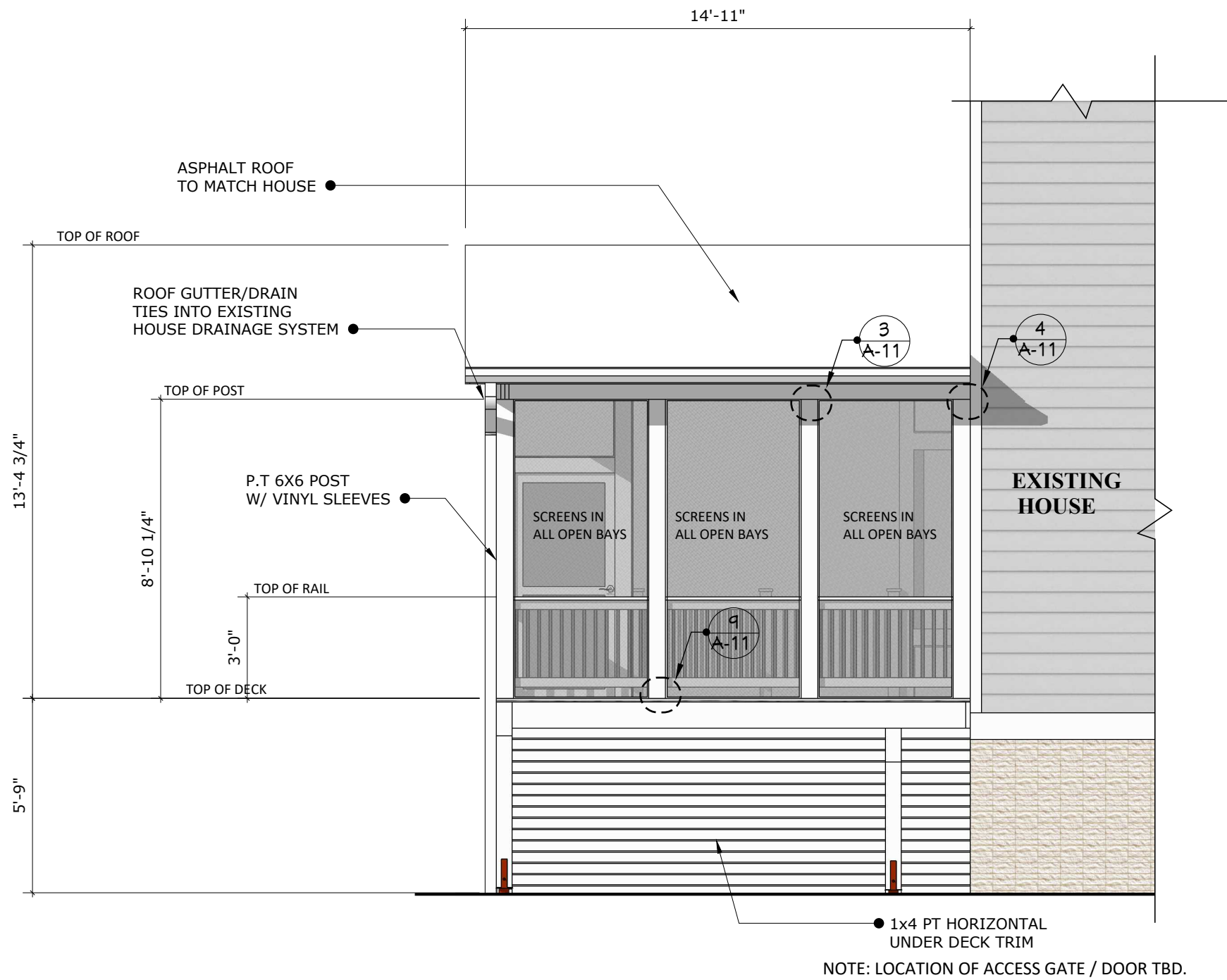
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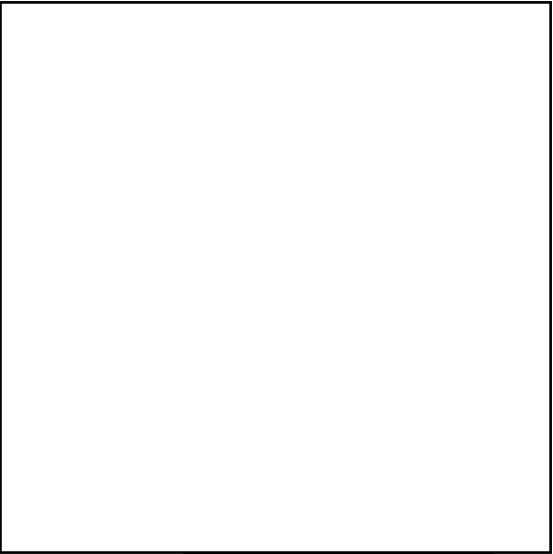
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A-06



LEFT-SIDE ELEVATION

1/4"=1'-0"



PROJECT NAME

SCHAMPERS
SCREEN PORCH/DECK

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ADDRESS

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SHEET NAME

LEFT SIDE ELEVATION

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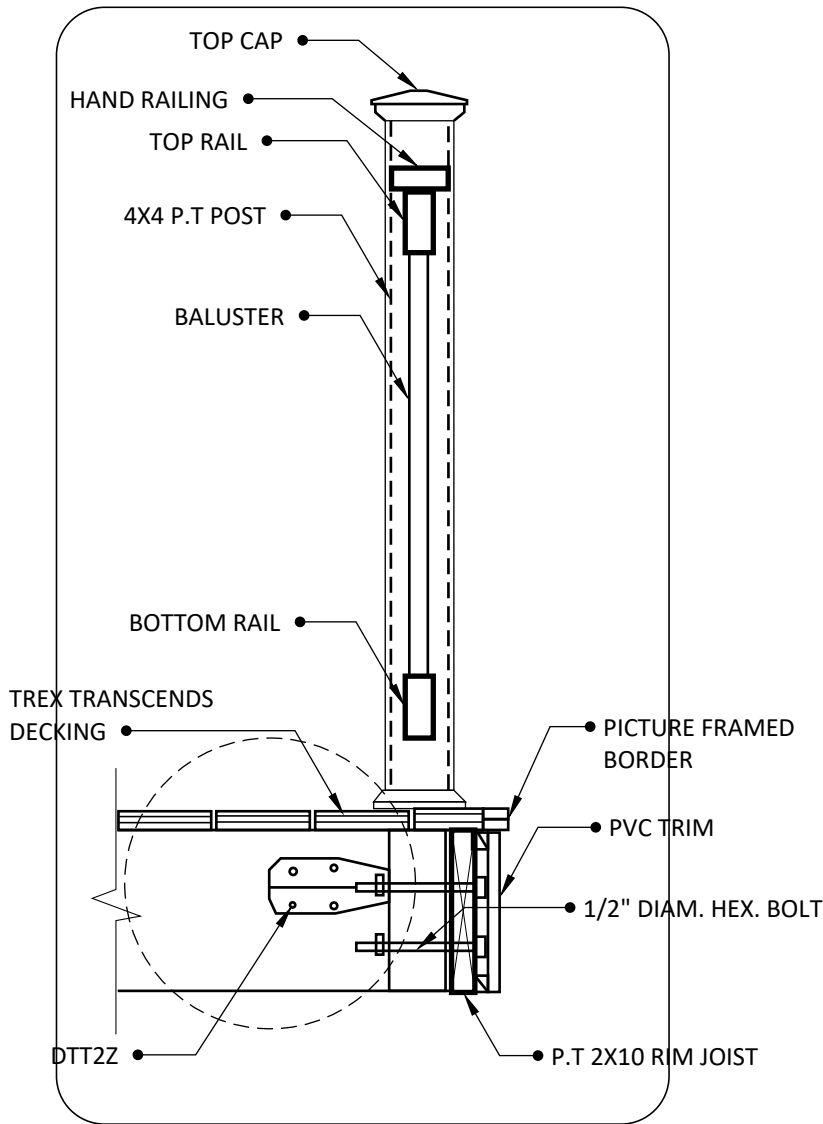
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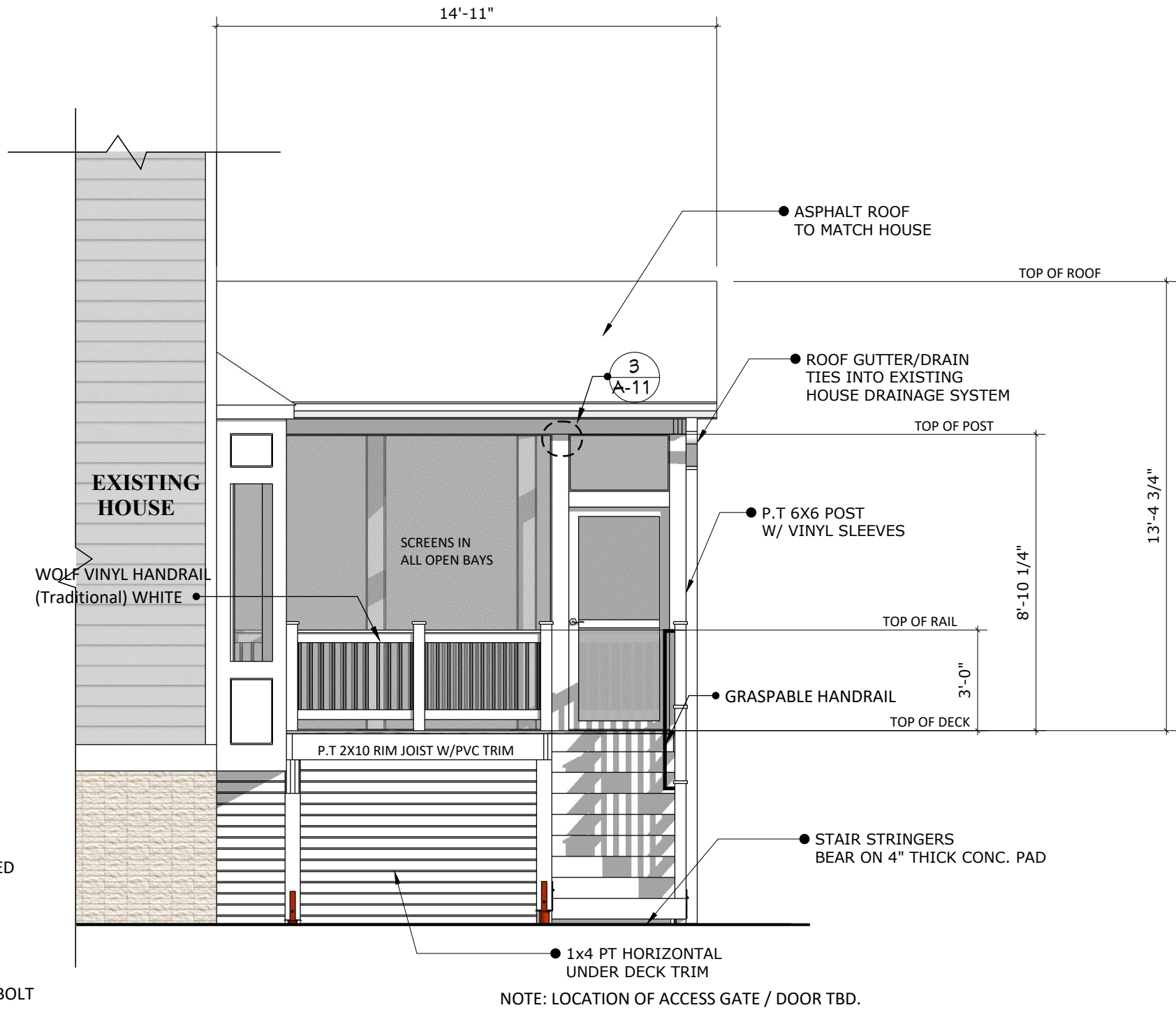
SEE DRAWING

SHEET NUMBER

A-07



Deck Post to Rail connection



RIGHT SIDE - ELEVATION

1/4"=1'-0"

PROJECT NAME

SCHAMPERS
SCREEN PORCH/DECK

Drwg Date: Aug. 26th, 2019

ADDRESS

127 Lewis st. NW.
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SHEET NAME

RIGHT-SIDE ELEVATION

LAST UPDATE

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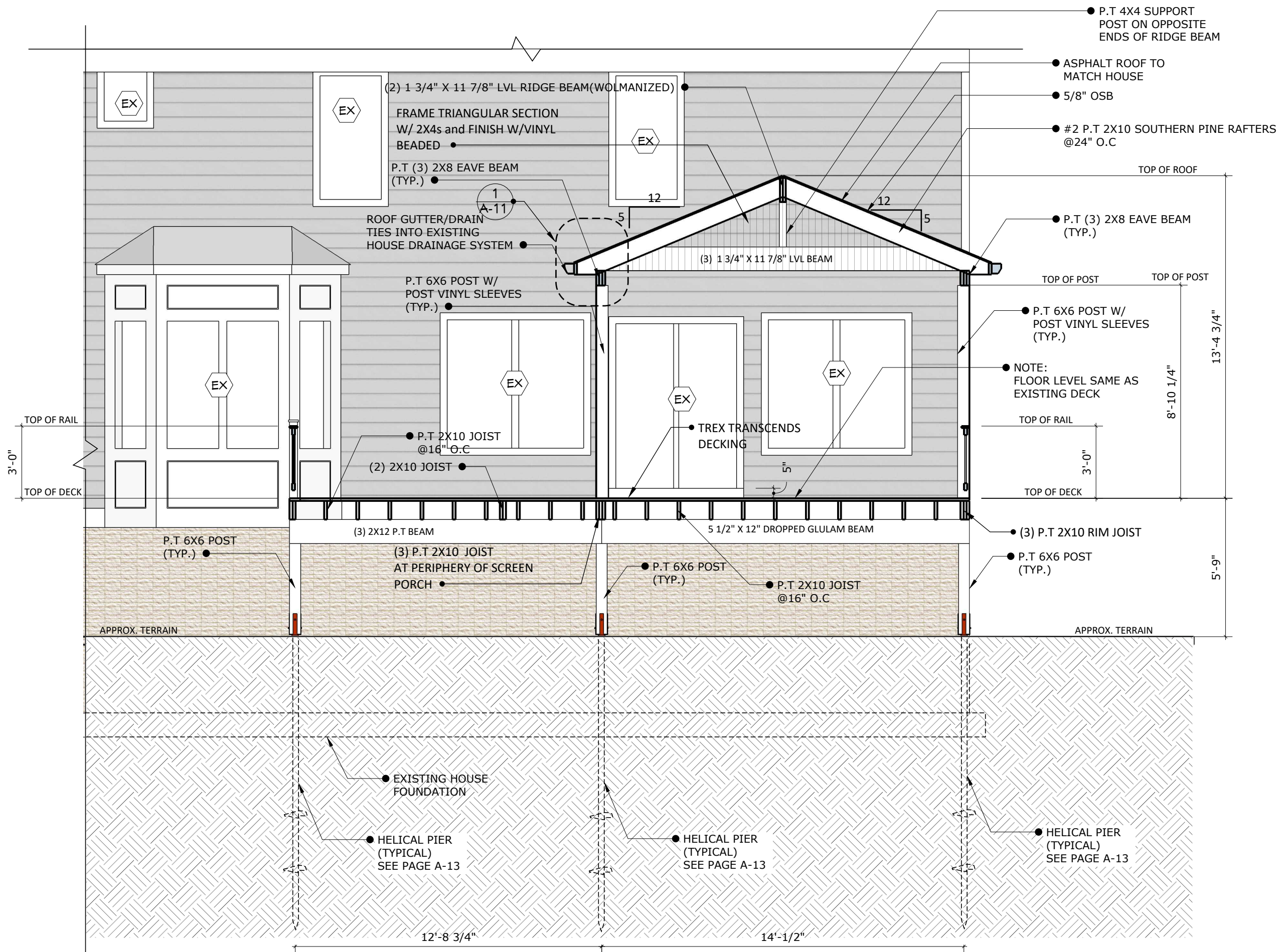
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SCALE

SEE DRAWING

SHEET NUMBER

A-08



SECTION A-A

1/4" = 1'-0"

** MODIFIED DIM. per Cathy

PROJECT NAME

SCHAMPERS
SCREEN PORCH/DECK

Drwg Date: Aug. 26th, 2019

ADDRESS

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Vienna VA 22180

SHEET NAME

SECTION A-A

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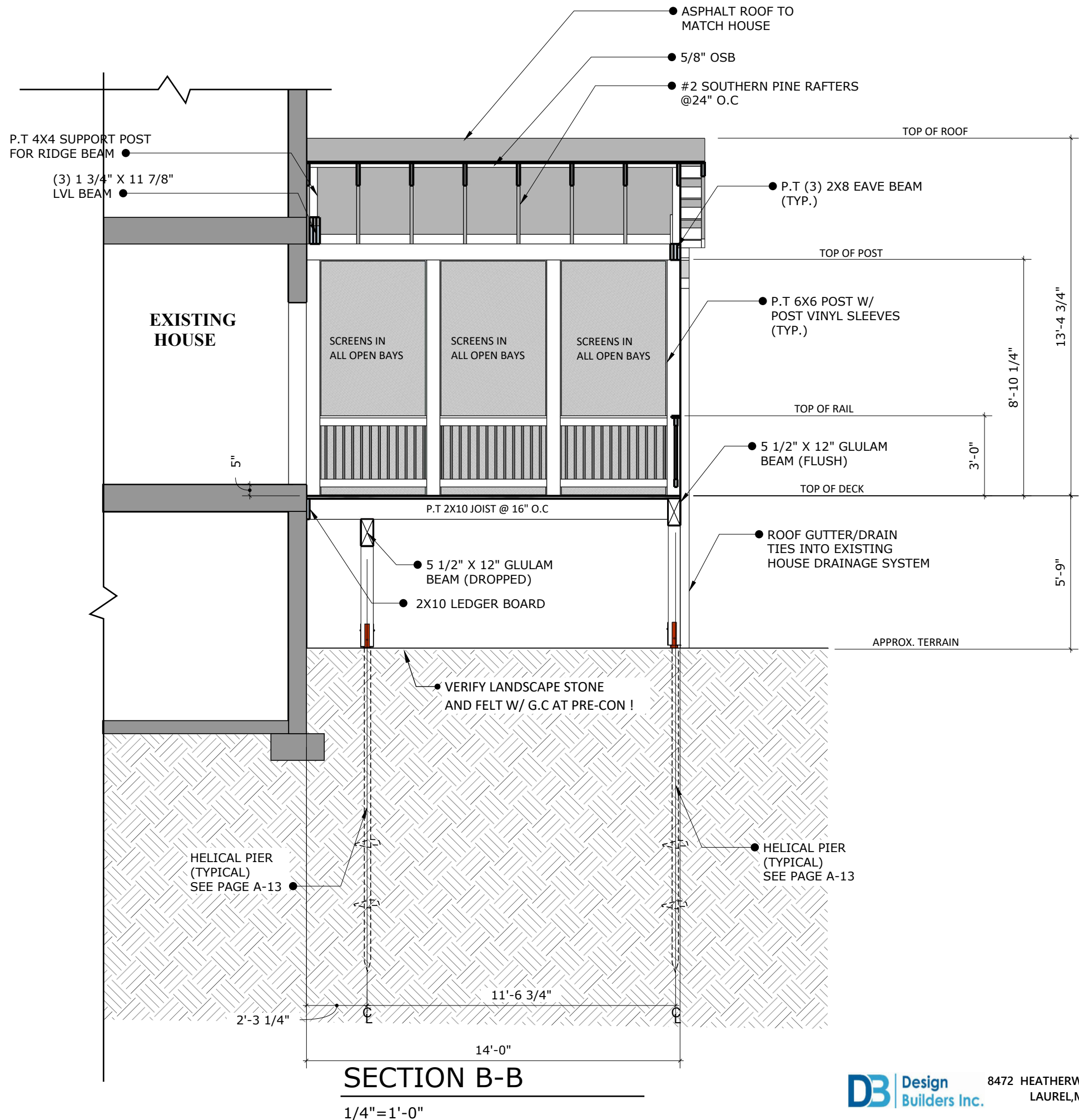
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A-09



PROJECT NAME

SCHAMPERS
SCREEN PORCH/DECK

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ADDRESS

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Vienna VA 22180

SHEET NAME

SECTION B-B

LAST UPDATE

October 30, 2019

REVISIONS

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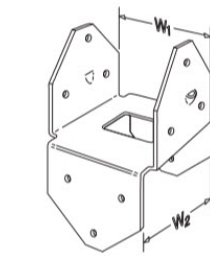
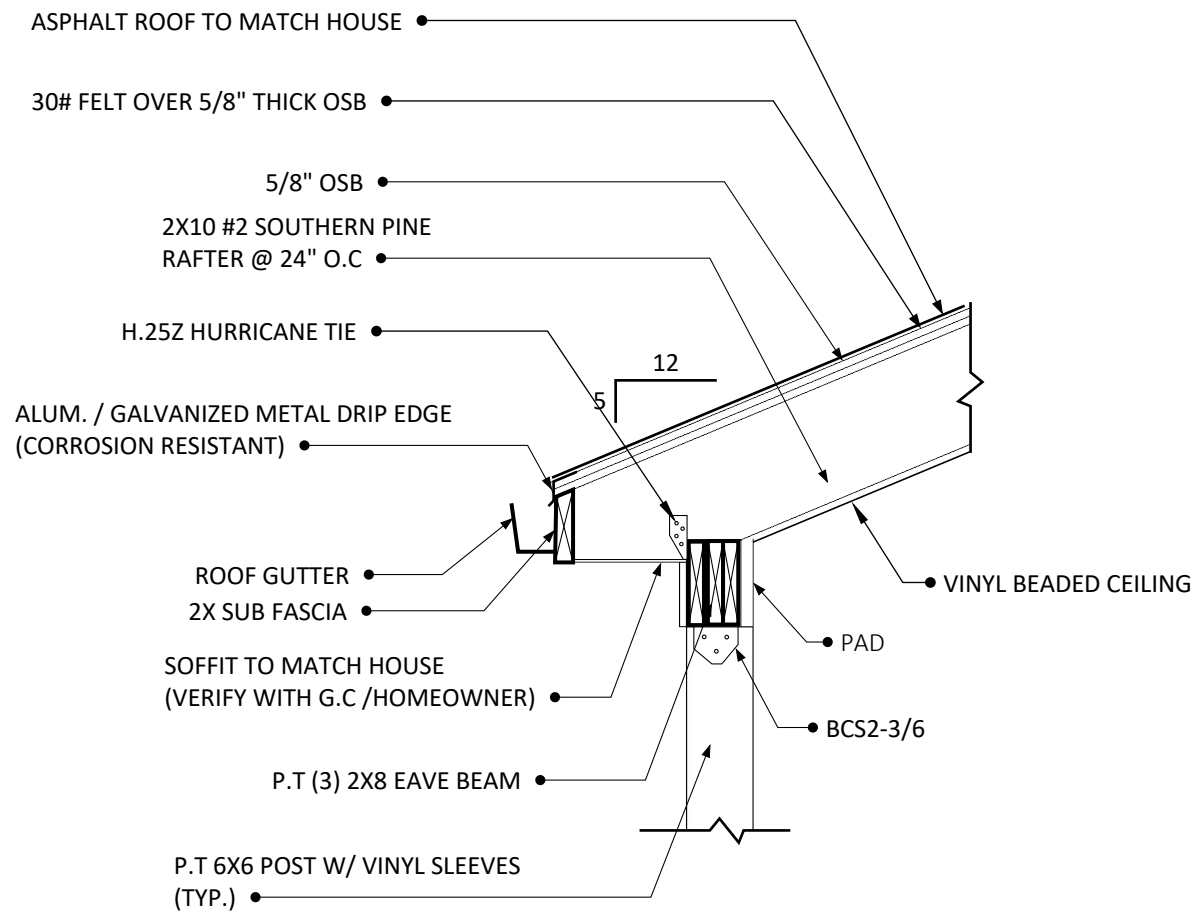
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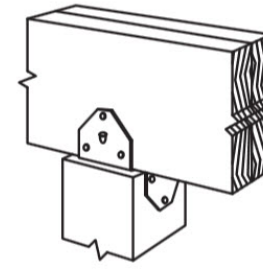
SEE DRAWING

SHEET NUMBER

A-010



BCS
(BC Similar)



Typical BCS
Installation (BC
Similar)

Installation:

- BCS: Install dome nails on beam; drive nails at an angle through the beam into the post below.
- BC: Do not install bolts into pilot holes.

Model No.	Dimensions (in.)						Fasteners			
	W1	W2	L1	L2	H1	H2	Nails		SD Screws	
							Beam Flange	Post Flange	Beam Flange	Post Flange
BC4Z	3 9/16	3 9/16	2 7/8	2 7/8	3	3	6-16d	6-16d	6-SD #10x1½	6-SD #10x1½
BC6Z	5 1/2	5 1/2	4 3/8	4 3/8	3 3/8	3 3/8	12-16d	12-16d	-	-
BCS2-2/4Z	3 1/8	3 9/16	2 7/8	2 7/8	2 15/16	2 15/16	8-10d	6-10d	8-SD #9x2½	6-SD #9x2½
BCS2-3/6Z	4 5/8	5 9/16	4 3/8	2 7/8	3 5/16	2 15/16	12-16d	6-16d	-	-

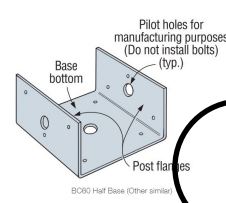
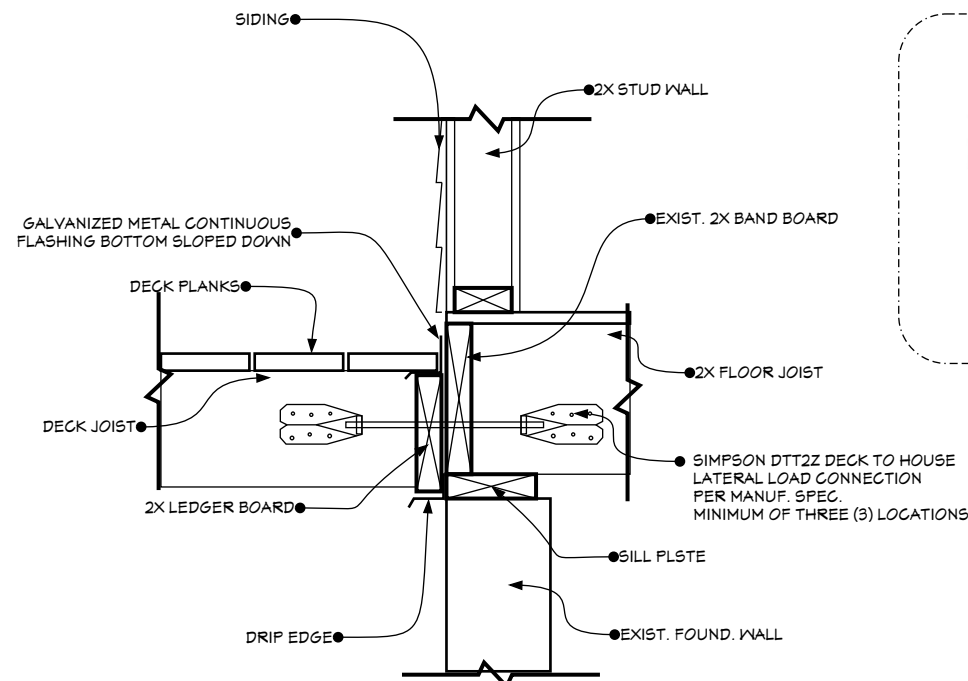
1. ▢ indicates connector is available in stainless steel. Replace Z in model number with SS when ordering.
2. Refer to current Wood Construction Connectors catalog for additional information.

3

BC, BCS Post Caps

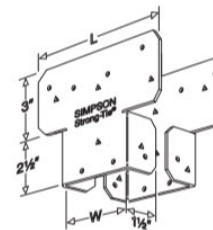
1 ROOF EAVE DETAIL

3/4"=1'-0"

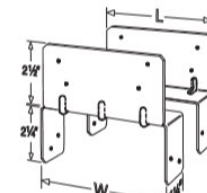


9

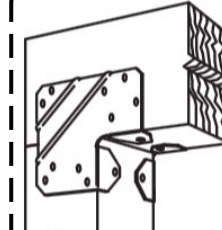
BC60 INSTALL



AC



LPCZ



Typical
LCE4Z
Installation

Installation:

- Install in pairs.
- For LCE4Z installations on mitered corner conditions, refer to www.strongtie.com for more information.

Model No.	Dimensions (in.)		Fasteners			
	W	L	Nails		SD Screws	
			Beam	Post	Beam	Post
AC4Z	3 9/16	6 1/2	14-16d	14-16d	14-SD #10x1½	14-SD #10x1½
AC6Z	5 1/2	8 1/2	14-16d	14-16d	14-SD #10x1½	14-SD #10x1½
LPC4Z	3 9/16	3 1/2	8-10d	8-10d	8-SD #9x1½	8-SD #9x1½
LPC6Z	5 9/16	5 1/2	8-10d	8-10d	-	-
LCE4Z	-	5 3/8	14-16d	10-16d	14-SD #10x1½	10-SD #10x1½

1. ▢ indicates connector is available in stainless steel. Replace Z in model number with SS when ordering.
2. Refer to current Wood Construction Connectors catalog for additional information.

4

AC, LPC, LCE Post Caps



LAUREL, MD 20723



PROJECT NAME

**SCHAMPERS
SCREEN PORCH/DECK**

Drwg Date: Aug. 26th, 2019

ADDRESS

127 Lewis st. NW.
Vienna VA 22180

SHEET NAME

CONSTRUCTION DETAILS

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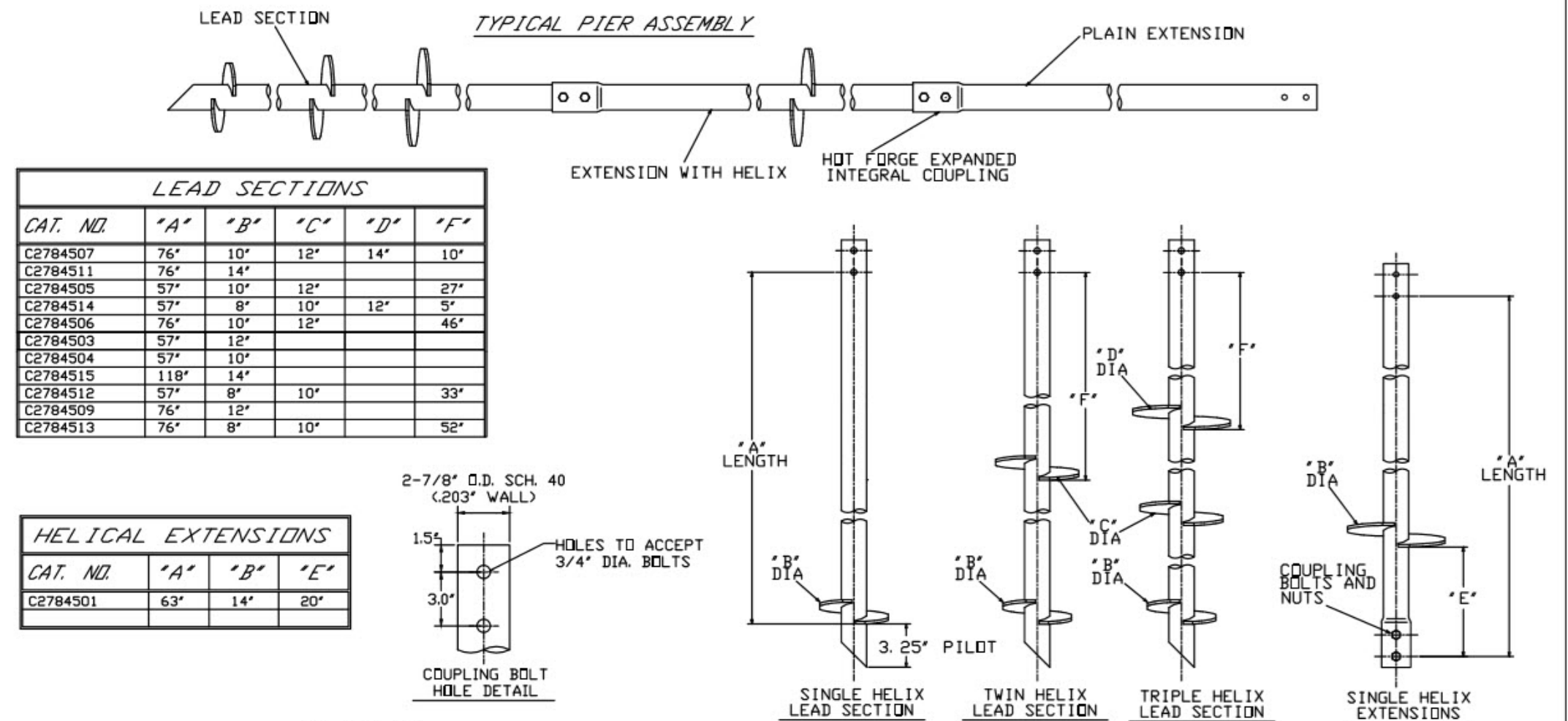
A-011

2 LATERAL BRACING DETAIL

NTS

RS2875.203 MULTI-HELIX LEADS

TORQUE STRENGTH RATING-5,500 FT-LB
ULTIMATE CAPACITY* (TENSION/COMPRESSION) 49 KIP
*BASED ON TORQUE FACTOR OF (Kt)=9



-NOTES-

1. HOT DIP GALVANIZED PER ASTM 153-(LATEST REVISION)
2. LEAD AND EXTENSION SECTION LENGTHS AND HELIX SPACINGS ARE NOMINAL,
3. NOMINAL SPACING BETWEEN HELIX PLATES IS THREE TIMES THE DIAMETER OF THE LOWER HELIX.
4. HELIX MATERIAL LOW CARBON STEEL MEETING THE GENERAL REQUIREMENTS OF AISI, OR ASTM A572, A656, OR A1018; 3/8" THICK.
5. PIPE SHAFT MATERIAL 2.5" NOMINAL, SCHEDULE 40 WALL THICKNESS PER ASTM A500 GRADE B/C, MINIMUM YIELD STRENGTH OF PIPE SHAFT IS 50 KSI.
6. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
7. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1.
8. FOR PLAIN EXTENSIONS REFER TO DRAWING SA278-4500.

CHANCE HELICAL		HUBBELL POWER SYSTEMS	
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SIZE SC/SA2784507	DWG NO. SEE CHART	CAT / PART / ASSY NO. SEE CHART	REV B
DO NOT SCALE THIS DRAWING	DRN BY KSH	DATE 12/29/09	SHEET 1/1

PROJECT NAME

SCHAMPERS
SCREEN PORCH/DECK

Drwg Date: Aug. 26th, 2019

ADDRESS

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Vienna VA 22180

SHEET NAME

HELICAL PIER DETAILS

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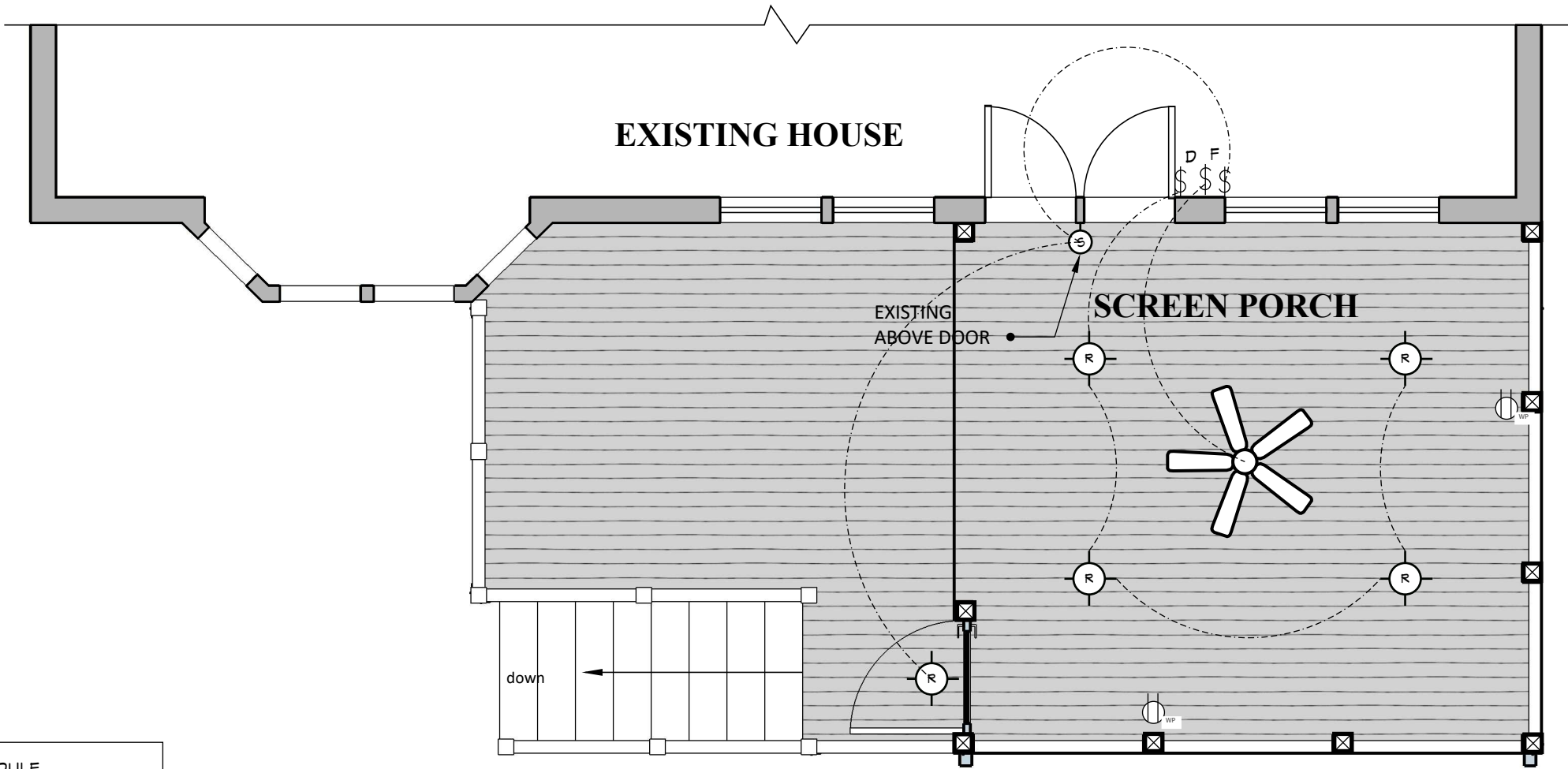
SEE DRAWING

SHEET NUMBER

A-013

NOTE:

FIELD VERIFY FINAL LOCATIONS OF
ALL ELECTRICAL ELEMENTS WITH G.C /
HOME OWNER BEFORE FINAL INSTALLATION !!



ELECTRICAL PLAN

1/4"=1'-0"

ELECTRICAL SCHEDULE		
ELECTRICAL	COUNT	SYMBOL
Ceiling Fan 5 Blade	1	
Recessed Lights	5	
Outlet WP	2	

PROJECT NAME

SCHAMPERS
SCREEN PORCH/DECK

Drwg Date: Aug. 26th, 2019

ADDRESS

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SHEET NAME

ELECTRICAL PLAN

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SCALE

SEE DRAWING

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A-014