

City of Portland

Reviewed for Code Compliance

BES STORMWATER FACILITY INSPECTION
AT 10000 N. COAST RD. BES IN
To schedule, contact the automated in
(IVR) system at 503-823-7000 and r
#487, BES, Onsite Stormwater Facility E
BES at 503-823-7761 for assistance.

Permit #: 21-065911-000-00-RS

BDS INSPECTOR APPROVAL REQUIRED FOR
PRIVATE STORM SEWER PIPING OUTSIDE C

Date: 11/12/21

Permit #: 21-065911-000-00-RS

SEPARATE BES ROW SEWER CONNECTION PERMIT
REQUIRED, WORK IN THE
PUBLIC RIGHT OF WAY CALL: 503-823-1026
or Email: BESTrades@portlandoregon.gov

(2) 1.5"Ø CALLERY PEAR (PYRUS CALLERYANA ('ARISTOCRAT') OR EQUAL MEDIUM TREE * MANUAL IRRIGATION FOR THE FIRST YEAR.

100.0' 25.0' 100.0'

100.5' 100.5'

10x10 CONCRETE PATIO

100.5' 100.5'

DOWNSPOUT

29.5'

4.83'

.16' CANTILEVERED FIREPLACE WOODCHASE

.25' CANTILEVERED BAY AT MAIN LEVEL

.25' CANTILEVERED BAY AT UPPER LEVEL

RAIN DRAIN, 3"Ø ABS SCH40 (CONTINUOUS ROOF DRAINAGE TIED TO LINED PLANTER 1% SLOPE)

5.00'

33.0'

EXISTING PROPERTY LINE

DOWNSPOUT

1.0' ROOF OVERHANG

WATER LINE, 3/4"Ø PVC

100.0'

PROPOSED SINGLE FAMILY PLAN: 1753-B1 FFE: 101.92'

15.00'

5.0'

3.0'

.16' CANTILEVERED BAY AT UPPER LEVEL

RAIN DRAIN, 3"Ø ABS SCH40 (CONTINUOUS ROOF DRAINAGE TIED TO LINED PLANTER 1% SLOPE)

2.5'

ELEV. 99.5' AT BOTTOM OF RAIN DRAIN PENETRATING THE LINED PLANTER

STORMWATER LINED PLANTER PER SIMPLIFIED DESIGN APPROACH (SEE SW141 & SW-190 DETAIL ON SITE PLAN DETAIL PAGE) 70 SQ. FT. FACILITY SURFACE AREA (1,156 SQ. FT. ROOF X .06 = 69.36 SQ. FT. MIN.)

28.0'

ELEV. 99.5' AT BOTTOM OF RAIN DRAIN PENETRATING THE LINED PLANTER

OVERFLOW

RAIN DRAIN, 3"Ø ABS SCH40

100.5'

DOWNSPOUT

100.5'

SEWER LINE, 3"Ø ABS CONNECT ON SITE TO THE NEWLY INSTALLED BRANCH

STORM DRAIN, 3"Ø ABS SCH40 CONNECT ON SITE TO THE NEWLY INSTALLED BRANCH

GAS LINE

100.0'

25.0'

NEW 4" (PVC OR HDPE BRANCH) EXTENDING TO THE FROM THE MAINLINE SEWER. TAP THE EXISTING MAIN SEWER. NEW SFR SANITARY LINE WILL CONNECT ON INSTALLED BRANCH.

INSTALL NEW 4"Ø (PVC OR HDPE) SEWER BRANCH EXT THE PROPERTY LINE FROM THE MAIN-LINE SANITARY S & TAP THE CITSY EXISTING 8" CSP SANITARY SEWER I

10.00'

CONCRETE DRIVEWAY & SIDEWALK

100.0'

RAIN DRAIN, 3"Ø ABS SCH40

100.0'

NEW 3/4" WATER METER TO BE INSTALLED

NEW WATER SERVICE LATERAL

EXISTING 48" CSP STORM MAIN

EXISTING 8" CSP SEWER MAIN

EXISTING GAS MAIN

EXISTING WATER MAIN

1,156 SQ. FT. = ROOF
213.5 SQ. FT. = DRIVE
NOT INCLUDING AREA
90 SQ. FT. = REAR PA
AREA UNDER ROOF
1,459.5 SQ. FT. IMPER

City of Portland
Reviewed for
Code Compliance
Date: 1/17/21
Permit #: 21-065911-000-00-RS
BDS INSPECTOR APPROVAL REQUIRED FOR
PRIVATE STORM SEWER PIPING OUTSIDE
SEPARATE BES ROW SEWER CONN
REQUIRED, WORK IN
PUBLIC RIGHT OF WAY CALL: 5
or Email: BESTrades@portlan

1. ALL UTILITIES IN THE RIGHT OF WAY WITHIN THE DEVELOPMENT PROPERTY'S FRONTAGE MUST BE LOCATED THROUGH 811, ONE CALL, AND SHOWN ON THE ASSOCIATED PLAN SET. APPLICANT WILL NEED TO BE ABLE TO PROVIDE THE LOCATE TICKET NUMBER IF REQUESTED FOR VERIFICATION.

3. UNDERGROUND GAS LINE (VERIFY LOCATION).

4.
 - SEPERATION BETWEEN SANITARY SEWER & WATER LINE SHOULD BE 5 FT. MINIMUM SKIN TO SKIN.
 - SEPERATION BETWEEN UNDERGROUND ELECTRICAL SERVICE LINE & WATER LINE SHOULD BE 4 FT. MINIMUM.
 - SEPARATION BETWEEN MULTIPLE WATER SERVICES ON ONE TAX LOT SHOULD BE 3 FT. MINIMUM.
 - SEPARATION BETWEEN WATER SERVICE AND PROPERTY LINES SHOULD BE 1.5 FT. MINIMUM.
- S.
 - ALL OTHER UNDERGROUND UTILITIES NEED TO HAVE 3 FT. MINIMUM SEPERATION FROM WATER LINE.
 - NEW WATER METERS SHOULD NOT BE PLACED IN DRIVEWAY WINGS.
 - STREET TREES MUST BE A MINIMUM OF 5 FT. FROM THE NEAREST EDGE OF WATER PIPE, VALVE OR METER BOX & A MINIMUM OF 10 FT. FROM A FIRE HYDRANT. REFERENCE STANDARD DRAWING P-845 FOR MORE INFORMATION.

1,156 SQ. FT. = ROOF AREA
213.5 SQ. FT. = DRIVEWAY AREA
NOT INCLUDING AREA UNDER ROOF OVERHANGS.
90 SQ. FT. = REAR PATIO AREA NOT INCLUDING
AREA UNDER ROOF OVERHANGS.
1,459.5 SQ. FT. IMPERVIOUS AREA TOTAL

PROJECT LEGAL DESCRIPTION:
PROP. ID#: STATE ID: 1S2E19CC 1802
LOT 19, STANFORD HTS, BLOCK13
SE 1/4 NE 1/4 SEC. 8, T.1S R.2E.
W.M. MULTNOMAH COUNTY, OREGON


PROJECT ADDRESS:
4445 SE UMATILLA ST, (LOT E. OF 4407)
PORTLAND, OREGON 97206

ROOF AREA:	1,156.0 SQ. FT.
FLATWORK AREA:	
DRIVEWAY & SIDEWALK	238.0 SQ. FT.
COVERED FRONT PORCH	28.0 SQ. FT.
REAR PATIO	100.0 SQ. FT.
	TOTAL= 560.0 SQ. FT.

LOT COVERAGE:
 LOT AREA 2,500.0 SQ. FT.
 BUILDING AREA 997.2 SQ. FT.
 (NOT INCLUDING OVERHANGS)
 39.9 % LOT COVERAGE

ZONING:
ZONE: R5 OVERLAY: N/A

SCALE: 1" = 10.0' (ON 18"X24" PAPER SIZE)
DATE: 6-30-21
JOB# 21-54



NORTH



MHD
MASSIE HOME DESIGN

500 NW 20TH ST STE 203 (o) PHONE: 503-663-1100
GRESHAM, OREGON 97030 EMAIL: brian@massiehd.com

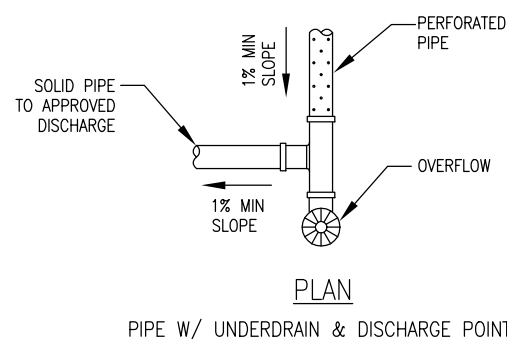
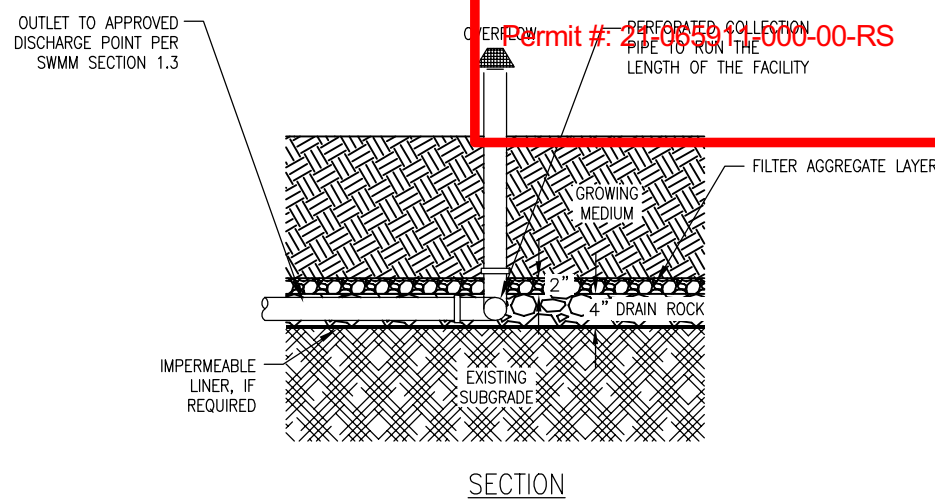
PREMISES IDENTIFICATION: NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY, INCLUDING MONUMENT SIGNS. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS. NUMBERS SHALL BE A MINIMUM OF 4 INCHES HIGH WITH A MINIMUM STROKE WIDTH OF 1/2 INCH. WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE(S). (OFC 505.1)

RECEIVED 10-20-21

City of Portland
Reviewed for
Code Compliance

Date: 11/12/21

Permit #: 44-00000000-00-RS



- DRAWING NOT TO SCALE -



STORMWATER MANAGEMENT
TYPICAL DETAILS FOR
PRIVATE PROPERTY

UNDERDRAIN
AND OVERFLOW
CONFIGURATIONS

SW-190

9-2-20

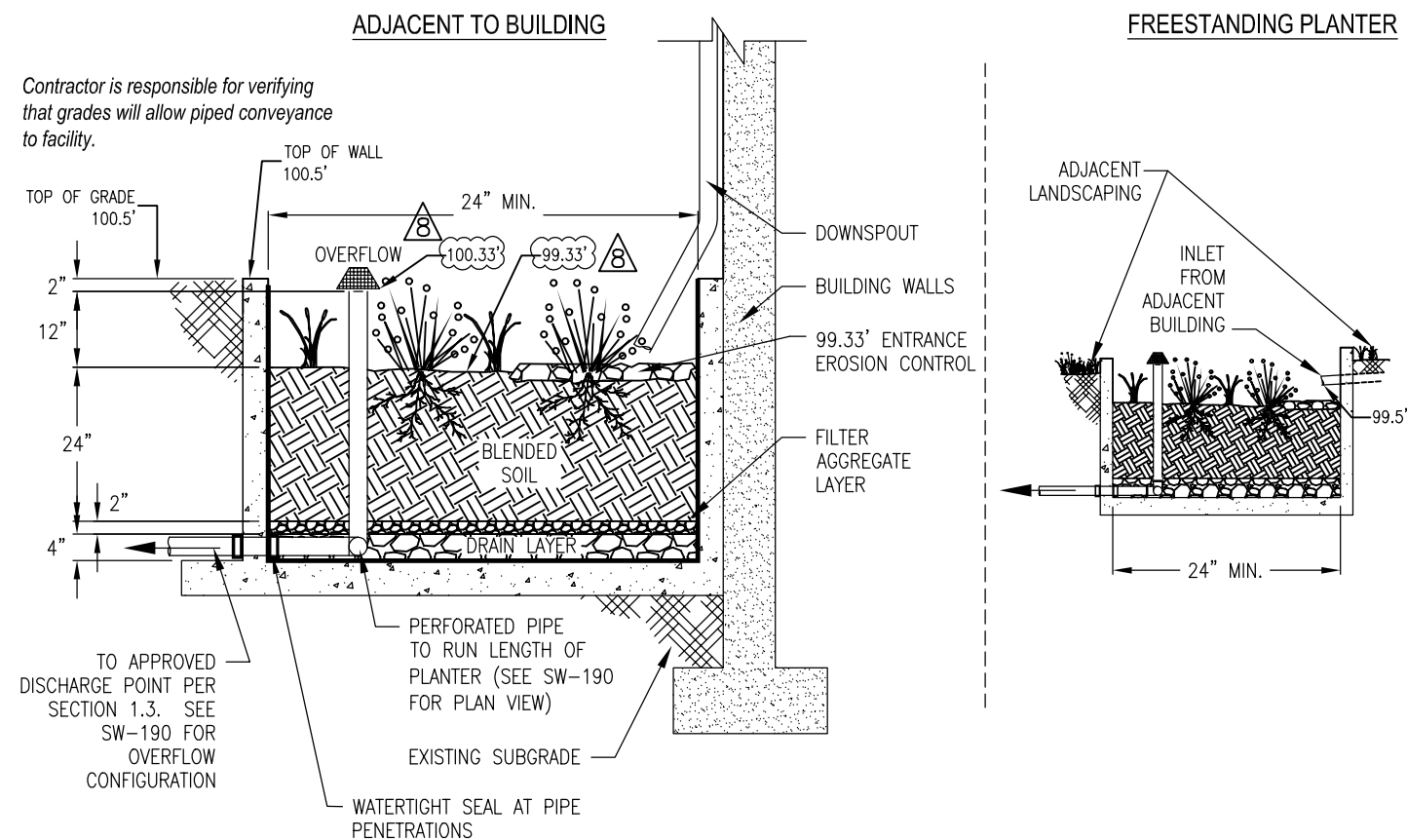


STORMWATER MANAGEMENT
TYPICAL DETAILS FOR
PRIVATE PROPERTY

LINED PLANTER

SW-141

9-2-20



1. Setbacks: No setback is required for lined planters. Walls can't exceed 30" height above grade if within 5' of property line including right-of-way.
2. Facility Slope (planted floor): Maximum of 0.5% in all directions.
3. Planter Structure: A single-pour monolithic concrete shell, without cold joints, is required to avoid the requirement for liner. Include walls on foundation plans. Check state structural standards for foundations.
4. Waterproofing: No additional waterproofing is needed if structure is monolithically poured.
5. Piping: Conform with Oregon Plumbing Specialty Code (OPSC) requirements.
6. Drain Layer: 4" of $\frac{3}{4}$ "-1 $\frac{1}{2}$ " washed drain rock. Filter aggregate layer: 2-3" of $\frac{1}{4}$ "-No.10 washed angular aggregate.
7. Overflow: Overflow elevation must allow for 2" of freeboard, minimum. Protect from debris and sediment with strainer or grate.
8. Blended Soil: Use BES' standard soil blend for stormwater facilities (SWMM Section 6.3) unless otherwise approved. Install minimum of 24" of blended soil.
9. Vegetation: Refer to plant list in SWMM Section 3.5. Minimum container size is 1 gal. Number of plantings per 100sf of facility area: 80 herbaceous plants OR 72 herbaceous plants and 4 small shrubs.
10. Entrance Erosion Control: Install river rock, flagstone, or similar to dissipate the energy of incoming water at entrances and ends of downspout extensions.
11. Inspections: Call BDS IVR Inspection Line, (503) 823-7000, request 487. 3 inspections required.

CONSTRUCTION REQUIREMENTS
Do not allow temporary storage of construction waste or materials in the facilities. Do not allow entry of runoff or sediment during construction.

- DRAWINGS NOT TO SCALE -

	9-27-2021 BES	UPDATED W/ ELEVATIONS & INFO. FOR LINED PLANTER.
	10-19-2021 BES, 3RD	UPDATED ELEVATIONS AT OVERFLOW RISER & AT GROWING MEDIUM

PROJECT LEGAL DESCRIPTION:
PROP. ID#: STATE ID: 1S2E19CC 1802
LOT 19, STANFORD HTS, BLOCK13
SE 1/4 NE 1/4 SEC. 8, T.1S R.2E.
W.M. MULTNOMAH COUNTY, OREGON

PROJECT ADDRESS:
4445 SE UMATILLA ST. (LOT E. OF 4407)
PORTLAND, OREGON 97206

PROPOSED PROJECT FOR:
SENTAUR INC.

SITE PLAN DETAILS

SCALE: 1" = 10.0' (ON 18"X24" PAPER SIZE)
DATE: 9-10-21
JOB# 21-54



MD
MASSIE HOME DESIGN

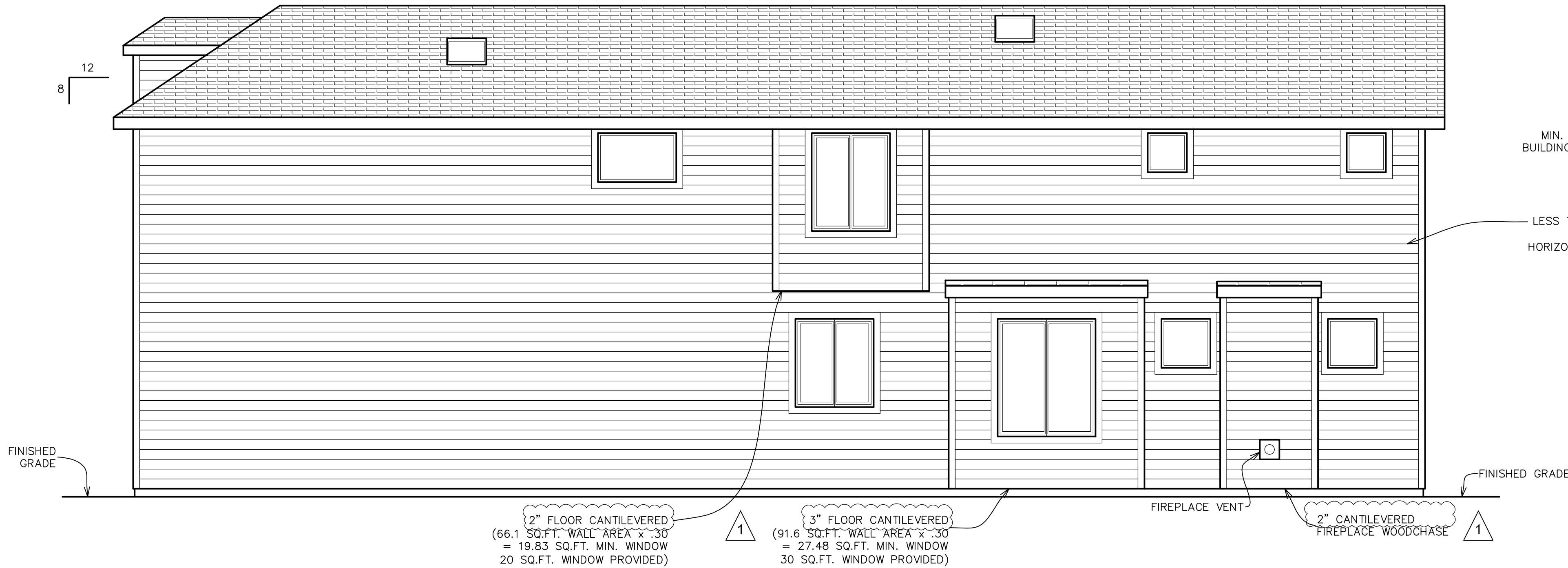
500 NW 20TH ST STE 203 (o) PHONE: 503-663-1100
GRESHAM, OREGON 97030 EMAIL: brian@massiehd.com

RECEIVED 10-20-21

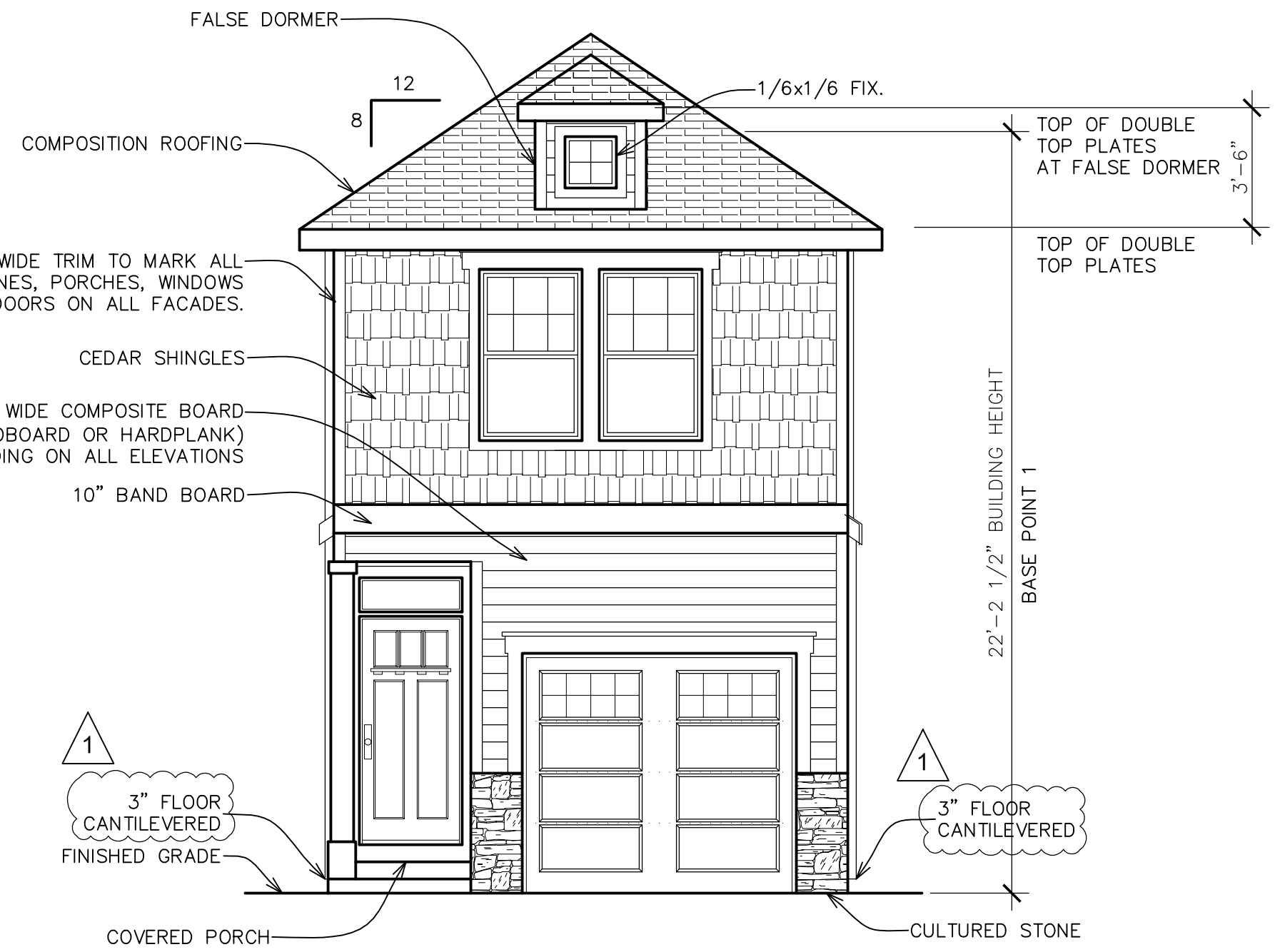
City of Portland
Reviewed for
Code Compliance

Date: 11/12/21
Permit #: 21-065911-000-00-RS

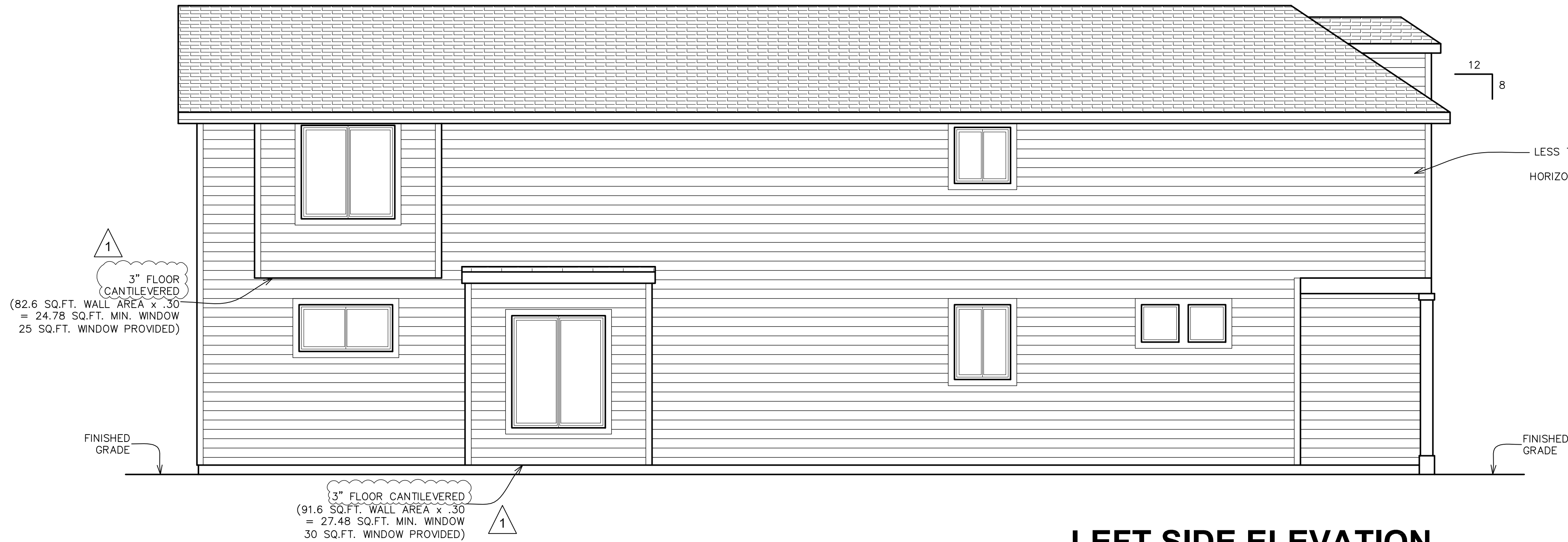
CITY OF PORTLAND BASE ZONE DESIGN STANDARD
STREET-FACING FACADE:
55.25 SQ. FT. WINDOW & DOOR AREA OF STREET
FACING FACADE DIVIDED BY 315.9 SQ. FT. AREA
OF STREET FACING FACADE = 17.5% WINDOW AND
DOOR AREA OF STREET FACING FACADE (15% MIN.)



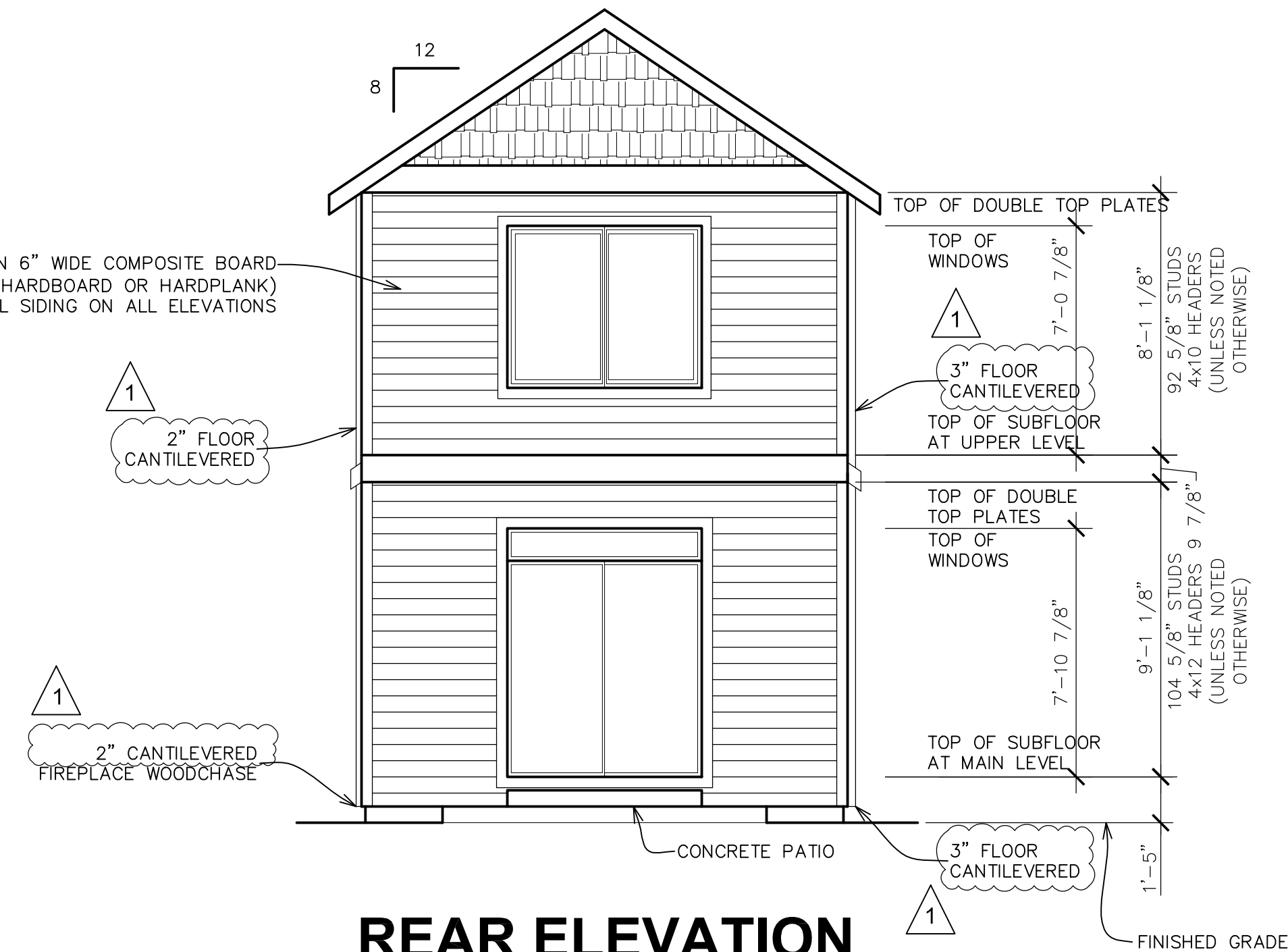
RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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



LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



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

MASSIE HOME DESIGN

500 NW 20TH ST STE 203
GRESHAM OREGON 97030
(O) PHONE: 503-663-1100
EMAIL: brian@massiehd.com

PROJECT ADDRESS:
4011 SE UMATILLA ST
PORTLAND, OREGON 97206

THESE PLANS ARE FOR THE CONSTRUCTION OF
ONE SINGLE-FAMILY RESIDENTIAL UNIT
IN ANY FORM WITHOUT THE EXPRESS WRITTEN
PERMISSION OF MASSIE HOME DESIGN.

PLAN 1753-B

FOR

SENTAUR INC.

21-065939

DESCRIPTION:
CHANGED THE DEPTH OF THE 4 BAYS &
FIREPLACE.

REVISION
DATE:
8-19-21

DRAWN BY: E.H.

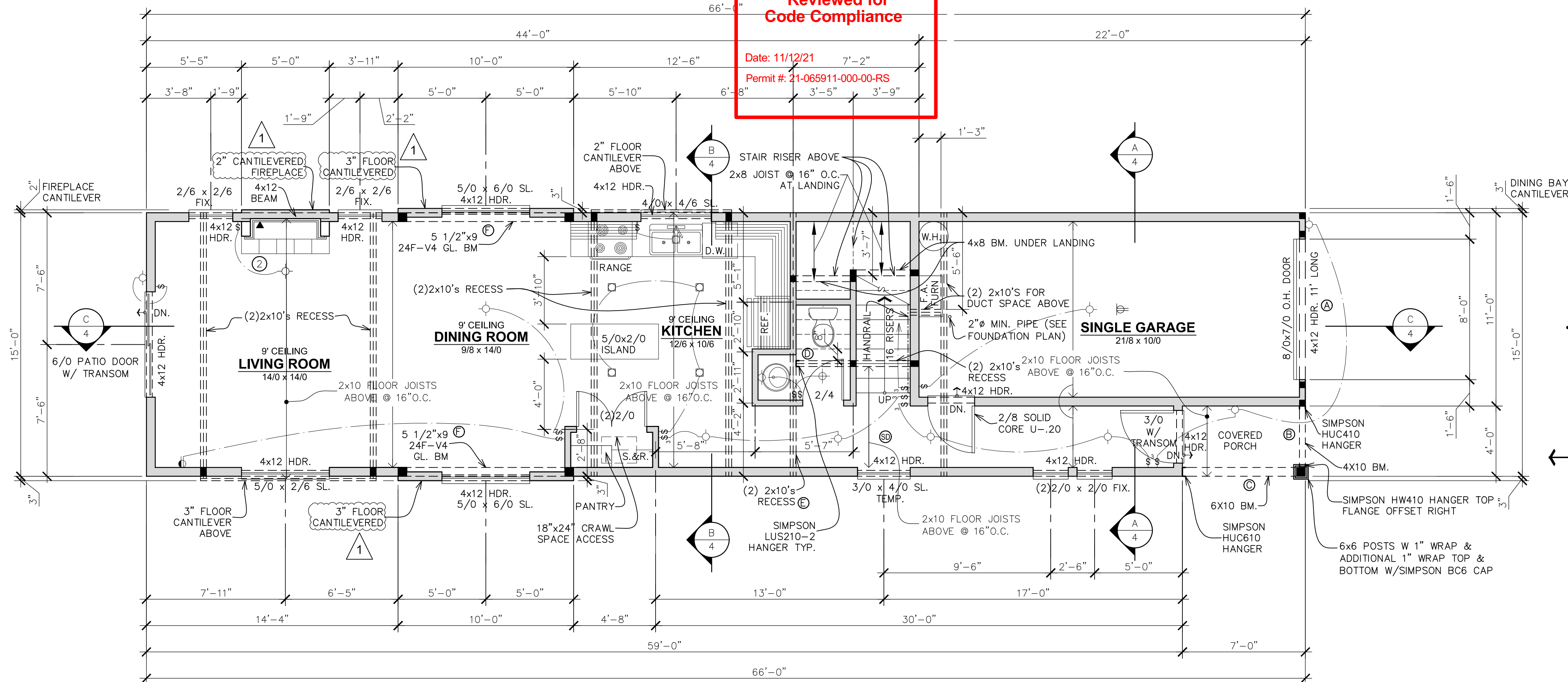
REVIEWED BY:BLM

DATE: 6-30-21

JOB# 21-51

1
OF 5

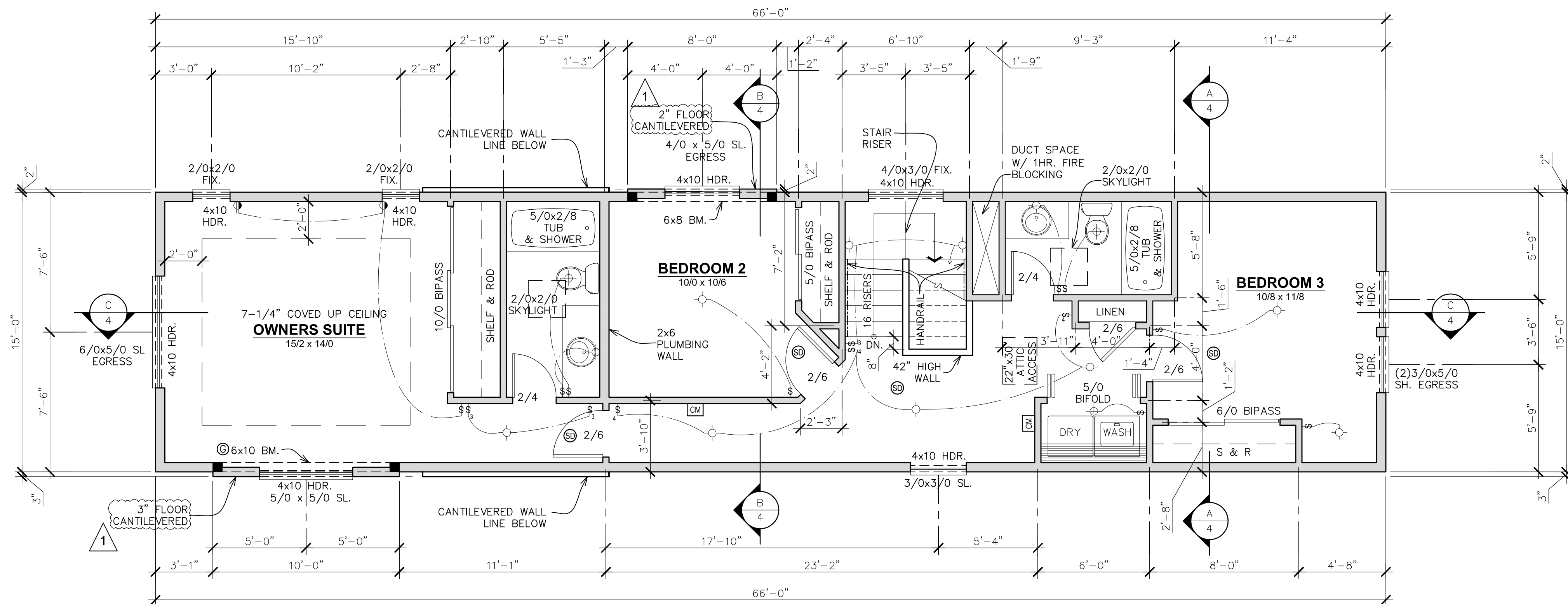
City of Portland
Reviewed for
Code Compliance
Date: 11/12/21
Permit #: 21-065911-000-00-RS



- LEGEND:
- SURFACE MOUNTED INCANDESCENT
 - WALL MOUNTED INCANDESCENT
 - RECESSED INCANDESCENT
 - ⊕ EXHAUST FAN VENTED TO EXTERIOR
 - ⊕ CEILING MOUNTED DUPLEX OUTLET
 - ⊕ SPLIT-WIRED OUTLET, WIRE TO SWITCH
 - ⊕ SINGLE-POLE SWITCH
 - ⊕ THREE-WAY SWITCH
 - ▲ TELEPHONE OUTLET
 - ⊕ TELEVISION OUTLET
 - ⊕ 110V SMOKE ALARM / DETECTOR WITH BATTERY BACKUP-INNERCONNECT
 - ⊕ 110V CARBON MONOXIDE ALARM / DETECTOR WITH BATTERY BACKUP- IN EACH BEDROOM OR WITHIN 15 FEET OUTSIDE OF EACH BEDROOM DOOR
 - ⊕ STRUCTURAL BEAM, SEE INCLUDED CALCULATIONS FOR BEAM DATA
 - ⊕ INTERIOR BEARING WALL
 - BEARING POINT LOCATION, PROVIDE 2x STUDS, MIN. OF BEAM WIDTH, UNLESS NOTED

- NOTES:
1. VENT RANGE HOOD / DOWNDRAFT EXHAUST MIN. 150 CFM INTERMITTENT TO OUTSIDE. VENT DRYER, LAUNDRY & BATH FANS TO OUTSIDE. BATH ROOMS WITH BATHING FACILITIES SHALL HAVE A MECHANICAL VENTILATION SYSTEM DESIGNED TO EXHAUST A MINIMUM OF 80 CFM INTERMITTENT OR 20 CFM CONTINUOUS CONTROLLED BY A DE-HUMIDISTAT TIMER OR SIMILAR MEANS OF AUTOMATIC CONTROL. IN ADDITION, WHEN NOT PROVIDED WITH NATURAL VENTILATION, TOILET ROOMS WITHOUT BATHING OR SPA FACILITIES SHALL HAVE A MECHANICAL VENTILATION SYSTEM DESIGNED TO EXHAUST A MINIMUM OF 50 CFM.
 2. METAL GAS FIREPLACE TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS, PROVIDE OUTSIDE COMBUSTIBLE AIR.
 3. PROVIDE 18" PLATFORM FOR WATER HEATER & FURNACE.
 4. SEISMIC STRAPPING OF WATER HEATER IS REQUIRED PER SECTION M1307.2

**SHEARWALL/HOLD-DOWN CALLOUT, SEE ENGINEERING "S" PAGES FOR TYPES REQUIRED.



DESCRIPTION:	
CHANGED THE DEPTH OF THE 4 BAYS & FIREPLACE.	
NO.	REVISION DATE:
1	8-19-21

DATE: 6-30-21

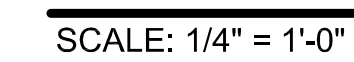
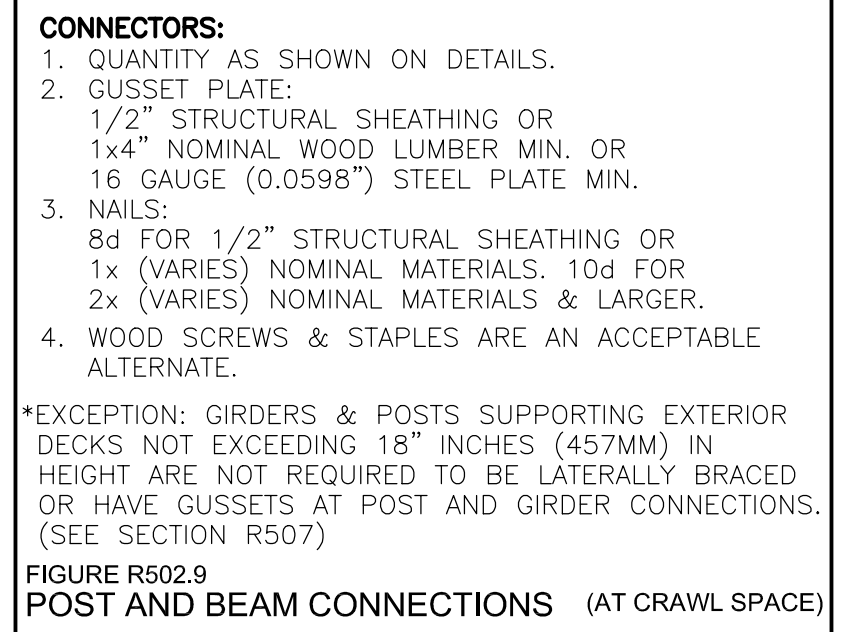
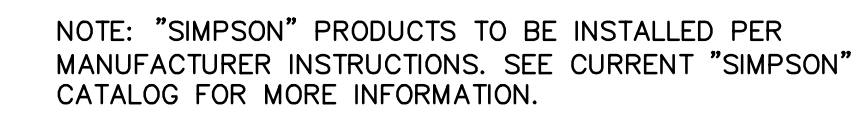
PLAN 1753-B

2
OF 5

SCALE: 1/4" = 1'-0" (ON 24" X 36" PAPER SIZE)

© 2021 MASSIE HOME DESIGN

SUBMITTED 9/20/2021



1. PROVIDE (5) 50 SQ.IN. SCREENED ROOF RIDGE VENTS AT UPPER LEVEL (238 SQ. IN. TOTAL).
2. PROVIDE (12) 20 SQ. IN. SCREENED ROOF EAVE VENTS AT UPPER LEVEL (238 SQ. IN. TOTAL).

LOCATION: 4445 SE UMATILLA ST PORTLAND, OREGON
LATERAL ANALYSIS AND DESIGN FOR SINGLE FAMILY RESIDENCE

CODE: 2019 OSSC
USE OR OCCUPANCY OF BUILDINGS AND STRUCTURES RISK CATEGORY (ASCE TABLE 1.5-1): II
WIND SPEED CLASS: 120 MPH EXPOSURE 'B', $V_{asd} = 93$ MPH (OSSC EQUATION 16-33)
SEISMIC DESIGN CATEGORY: 'D'
GROUND SNOW LOAD: 25 PSF (ROOF SNOW LOAD: 25 PSF)
ROOF DEAD LOAD: 17 PSF
ROOF LIVE LOAD: 40 PSF
FLOOR DEAD LOAD: 10 PSF
SOIL BEARING PRESSURE: 1500 PSF
SOIL PASSIVE SOIL PRESSURE: 200 PSF

1. WALL STUDS TO BE 2X6 DFL @ 16" O.C., TYPICAL U.N.O.
2. ROOF SHEATHING TO BE 1/2" APA RATED CDX SHEATHING OR OSB. INSTALL PANELS HORIZONTALLY. SPACE 84 NAILS MAXIMUM 6" O.C. ALONG PANEL EDGES. FOR OTHER CONDITIONS, SPACE 84 NAILS MAXIMUM 12" O.C. ON INTERMEDIATE SUPPORTS.
3. TYPICAL WALL SHEATHING (FSN) TO BE 1/2" APA RATED CDX SHEATHING OR OSB. ALL PANEL EDGES TO BE 1/2" WIDE FRAMING. INSTALL WANTING HORIZONTAL OR VERTICAL. SPACE 84 NAILS MAXIMUM 6" O.C. ALONG PANEL EDGES. FOR OTHER CONDITIONS AND PANEL THICKNESSES, SPACE 84 NAILS MAXIMUM 12" O.C. ON INTERMEDIATE SUPPORTS.
4. FLOOR SHEATHING TO BE 3/4" APA RATED CDX SHEATHING OR OSB. SPACE 84 NAILS MAXIMUM 6" O.C. ALONG PANEL EDGES. FOR OTHER CONDITIONS, SPACE 84 NAILS MAXIMUM 12" O.C. ON INTERMEDIATE SUPPORTS.
5. WALL PLATE TO BE 2X4 OR 2X6 (REFER TO SILL BOLT SPACING IN SCHEDULE BELOW).
6. FOR NAIL SIZES REFER TO BELOW.

NOTES:

- 1) SHEATHING TO BE APARATED SHEATHING OR OSB (GRADE C OR C-D STRUCTURAL II OR BETTER).
- 2) SHEATHING TO BE APARATED SHEATHING OR OSB (GRADE C OR C-D STRUCTURAL II OR BETTER) OR GYP BOARD (5/8" THICK) OR 1/2" GYP BOARD (1/2" THICK) OR 1/4" GYP BOARD (1/4" THICK) OR 1/8" GYP BOARD (1/8" THICK) OR 1/16" GYP BOARD (1/16" THICK) OR 1/32" GYP BOARD (1/32" THICK) OR 1/64" GYP BOARD (1/64" THICK) OR 1/128" GYP BOARD (1/128" THICK) OR 1/256" GYP BOARD (1/256" THICK) OR 1/512" GYP BOARD (1/512" THICK) OR 1/1024" GYP BOARD (1/1024" THICK) OR 1/2048" GYP BOARD (1/2048" THICK) OR 1/4096" GYP BOARD (1/4096" THICK) OR 1/8192" GYP BOARD (1/8192" THICK) OR 1/16384" GYP BOARD (1/16384" THICK) OR 1/32768" GYP BOARD (1/32768" THICK) OR 1/65536" GYP BOARD (1/65536" THICK) OR 1/131072" GYP BOARD (1/131072" THICK) OR 1/262144" GYP BOARD (1/262144" THICK) OR 1/524288" GYP BOARD (1/524288" THICK) OR 1/1048576" GYP BOARD (1/1048576" THICK) OR 1/2097152" GYP BOARD (1/2097152" THICK) OR 1/4194304" GYP BOARD (1/4194304" THICK) OR 1/8388608" GYP BOARD (1/8388608" THICK) OR 1/16777216" GYP BOARD (1/16777216" THICK) OR 1/33554432" GYP BOARD (1/33554432" THICK) OR 1/67108864" GYP BOARD (1/67108864" THICK) OR 1/134217728" GYP BOARD (1/134217728" THICK) OR 1/268435456" GYP BOARD (1/268435456" THICK) OR 1/536870912" GYP BOARD (1/536870912" THICK) OR 1/1073741824" GYP BOARD (1/1073741824" THICK) OR 1/2147483648" GYP BOARD (1/2147483648" THICK) OR 1/4294967296" GYP BOARD (1/4294967296" THICK) OR 1/8589934592" GYP BOARD (1/8589934592" THICK) OR 1/17179869184" GYP BOARD (1/17179869184" THICK) OR 1/34359738368" GYP BOARD (1/34359738368" THICK) OR 1/68719476736" GYP BOARD (1/68719476736" THICK) OR 1/137438953472" GYP BOARD (1/137438953472" THICK) OR 1/274877906944" GYP BOARD (1/274877906944" THICK) OR 1/549755813888" GYP BOARD (1/549755813888" THICK) OR 1/1099511627776" GYP BOARD (1/1099511627776" THICK) OR 1/2199023255552" GYP BOARD (1/2199023255552" THICK) OR 1/4398046511104" GYP BOARD (1/4398046511104" THICK) OR 1/8796093022208" GYP BOARD (1/8796093022208" THICK) OR 1/17592186044416" GYP BOARD (1/17592186044416" THICK) OR 1/35184372088832" GYP BOARD (1/35184372088832" THICK) OR 1/70368744177664" GYP BOARD (1/70368744177664" THICK) OR 1/140737488355328" GYP BOARD (1/140737488355328" THICK) OR 1/281474976710656" GYP BOARD (1/281474976710656" THICK) OR 1/562949953421312" GYP BOARD (1/562949953421312" THICK) OR 1/1125899906842624" GYP BOARD (1/1125899906842624" THICK) OR 1/2251799813685248" GYP BOARD (1/2251799813685248" THICK) OR 1/4503599627370496" GYP BOARD (1/4503599627370496" THICK) OR 1/9007199254740992" GYP BOARD (1/9007199254740992" THICK) OR 1/18014398509481984" GYP BOARD (1/18014398509481984" THICK) OR 1/36028797018963968" GYP BOARD (1/36028797018963968" THICK) OR 1/72057594037927936" GYP BOARD (1/72057594037927936" THICK) OR 1/144115188075855872" GYP BOARD (1/144115188075855872" THICK) OR 1/288230376151711744" GYP BOARD (1/288230376151711744" THICK) OR 1/576460752303423488" GYP BOARD (1/576460752303423488" THICK) OR 1/1152921504606846976" GYP BOARD (1/1152921504606846976" THICK) OR 1/2305843009213693952" GYP BOARD (1/2305843009213693952" THICK) OR 1/4611686018427387904" GYP BOARD (1/4611686018427387904" THICK) OR 1/9223372036854775808" GYP BOARD (1/9223372036854775808" THICK) OR 1/18446744073709551616" GYP BOARD (1/18446744073709551616" THICK) OR 1/36893488147419103232" GYP BOARD (1/36893488147419103232" THICK) OR 1/73786976294838206464" GYP BOARD (1/73786976294838206464" THICK) OR 1/147573952589676412928" GYP BOARD (1/147573952589676412928" THICK) OR 1/295147905179352825856" GYP BOARD (1/295147905179352825856" THICK) OR 1/590295810358705651712" GYP BOARD (1/590295810358705651712" THICK) OR 1/1180591620717411303424" GYP BOARD (1/1180591620717411303424" THICK) OR 1/2361183241434822606848" GYP BOARD (1/2361183241434822606848" THICK) OR 1/4722366482869645213696" GYP BOARD (1/4722366482869645213696" THICK) OR 1/9444732965739290427392" GYP BOARD (1/9444732965739290427392" THICK) OR 1/18889465931478580854784" GYP BOARD (1/18889465931478580854784" THICK) OR 1/37778931862957161709568" GYP BOARD (1/37778931862957161709568" THICK) OR 1/75557863725914323419136" GYP BOARD (1/75557863725914323419136" THICK) OR 1/151115727451828646838272" GYP BOARD (1/151115727451828646838272" THICK) OR 1/302231454903657293676544" GYP BOARD (1/302231454903657293676544" THICK) OR 1/604462909807314587353088" GYP BOARD (1/604462909807314587353088" THICK) OR 1/1208925819614629174706176" GYP BOARD (1/1208925819614629174706176" THICK) OR 1/2417851639229258349412352" GYP BOARD (1/2417851639229258349412352" THICK) OR 1/4835703278458516698824704" GYP BOARD (1/4835703278458516698824704" THICK) OR 1/9671406556917033397649408" GYP BOARD (1/9671406556917033397649408" THICK) OR 1/19342813113834066795298816" GYP BOARD (1/19342813113834066795298816" THICK) OR 1/38685626227668133590597632" GYP BOARD (1/38685626227668133590597632" THICK) OR 1/77371252455336267181195264" GYP BOARD (1/77371252455336267181195264" THICK) OR 1/154742504910672534362390528" GYP BOARD (1/154742504910672534362390528" THICK) OR 1/309485009821345068724781056" GYP BOARD (1/309485009821345068724781056" THICK) OR 1/618970019642690137449562112" GYP BOARD (1/618970019642690137449562112" THICK) OR 1/1237940039285380274899124224" GYP BOARD (1/1237940039285380274899124224" THICK) OR 1/2475880078570760549798248448" GYP BOARD (1/2475880078570760549798248448"

HOLDOWN NOTATION	'SIMPON' HOLDOWN TYPE	INSTALLATION INSTRUCTIONS
2	HDU2 (3075#)	STD. SB $\frac{1}{2}$ X 24 MIN. 18" EMBEDMENT @ CONCRETE. ANCHOR TO BE INSTALLED PLUMB AND LOCATED ALONG CENTER LINE OF (2X26 DFL-42 WALL STUDS MIN. 2 $\frac{1}{2}$ " EDGE DISTANCE), FASTEN STUDS TOGETHER WITH 16d NAILS @ 6" O/C ENTIRE HEIGHT OF STUD. INSTALL HOLDOWN PER MANUFACTURER'S SPECIFICATIONS.
4	HDU4 (4565#)	STD. SB $\frac{1}{2}$ X 24 MIN. 18" EMBEDMENT @ CONCRETE. ANCHOR TO BE INSTALLED PLUMB AND LOCATED ALONG CENTER LINE OF (2X26 DFL-42 WALL STUDS MIN. 2 $\frac{1}{2}$ " EDGE DISTANCE), FASTEN STUDS TOGETHER WITH 16d NAILS @ 6" O/C ENTIRE HEIGHT OF STUD. INSTALL HOLDOWN PER MANUFACTURER'S SPECIFICATIONS.
5	HDU5 (5645#)	STD. SB $\frac{1}{2}$ X 24 MIN. 18" EMBEDMENT @ CONCRETE. ANCHOR TO BE INSTALLED PLUMB AND LOCATED ALONG CENTER LINE OF (2X26 DFL-42 WALL STUDS MIN. 2 $\frac{1}{2}$ " EDGE DISTANCE), FASTEN STUDS TOGETHER WITH 16d NAILS @ 6" O/C ENTIRE HEIGHT OF STUD. INSTALL HOLDOWN PER MANUFACTURER'S SPECIFICATIONS.
8	HDU8 (6765#, 6970#, 7870#)	STD. SB $\frac{1}{2}$ X 24 MIN. 18" EMBEDMENT @ CONCRETE. ANCHOR TO BE INSTALLED PLUMB AND LOCATED ALONG CENTER LINE OF (2X26 DFL-42 WALL STUDS MIN. 2 $\frac{1}{2}$ " EDGE DISTANCE), FASTEN STUDS TOGETHER WITH 16d NAILS @ 6" O/C ENTIRE HEIGHT OF STUD. INSTALL HOLDOWN PER MANUFACTURER'S SPECIFICATIONS.
11	HDU11 (9335#)	STD. 1"3 ANCHOR BOLT OR ALTERNATIVE TO BE EMBEDDED INTO CONCRETE FOOTING (MIN. 12"). ANCHOR TO BE INSTALLED PLUMB AND LOCATED ALONG CENTER LINE OF 4X6 DFL-42 (MIN. 2 $\frac{1}{2}$ " EDGE DISTANCE). INSTALL HOLDOWN PER MANUFACTURE'S SPECIFICATIONS.
14	HDU14 (14445#)	STD. 1"3 ANCHOR BOLT OR ALTERNATIVE TO BE EMBEDDED INTO CONCRETE FOOTING (PER 2)52). ANCHOR TO BE INSTALLED PLUMB AND LOCATED ALONG CENTER LINE OF 6X6 DFL-42 (MIN. 2 $\frac{1}{2}$ " EDGE DISTANCE). INSTALL HOLDOWN PER MANUFACTURE'S SPECIFICATIONS.
28	MSTC28 (1535#)	INSTALL STRAP ACROSS FLOOR LINE. INSTALL MIN. 16d 16d NAILS INTO DOUBLE WALL STUDS ABOVE FLOOR AND INTO DOUBLE WALL STUDS BELOW. CENTER STRAP ON STUDS TO INSTALL NAILS INTO MIDDLE THIRD OF STUD.
40	MSTC40 (3070#)	INSTALL STRAP ACROSS FLOOR LINE. INSTALL MIN. 16d 16d NAILS INTO DOUBLE WALL STUDS ABOVE FLOOR AND INTO DOUBLE WALL STUDS BELOW. CENTER STRAP ON STUDS TO INSTALL NAILS INTO MIDDLE THIRD OF STUD.
52	MSTC52 (4610#)	INSTALL STRAP ACROSS FLOOR LINE. INSTALL MIN. 24d 16d NAILS INTO DOUBLE WALL STUDS ABOVE FLOOR AND INTO DOUBLE WALL STUDS BELOW. CENTER STRAP ON STUDS TO INSTALL NAILS INTO MIDDLE THIRD OF STUD.
66	MSTC66 (5850#)	INSTALL STRAP ACROSS FLOOR LINE. INSTALL MIN. 34d 16d NAILS INTO DOUBLE WALL STUDS ABOVE FLOOR AND INTO DOUBLE WALL STUDS BELOW. CENTER STRAP ON STUDS TO INSTALL NAILS INTO MIDDLE THIRD OF STUD.

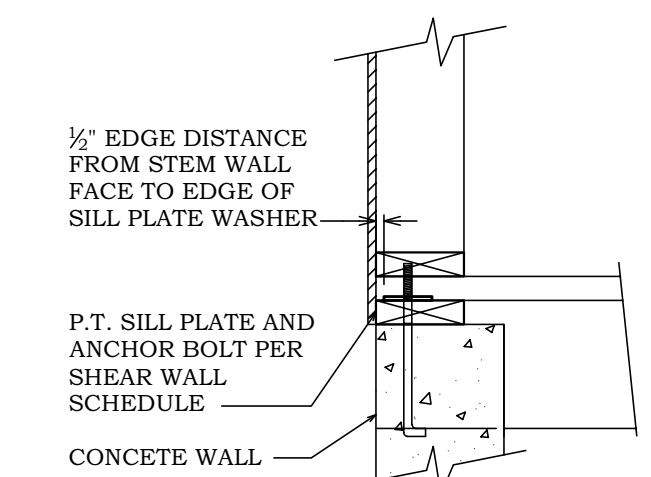
NOTES:

[1] HOLDINGS TO BE FASTENED TO DOUBLE STUDS (CONTINUOUS FROM SILL PLATE TO DOUBLE TOP PLATE) AT PANEL ENDS. WALL STUDS SHOULD HAVE PANELS SHEAR NAILING FROM SHEAR WALL SHEATHING.

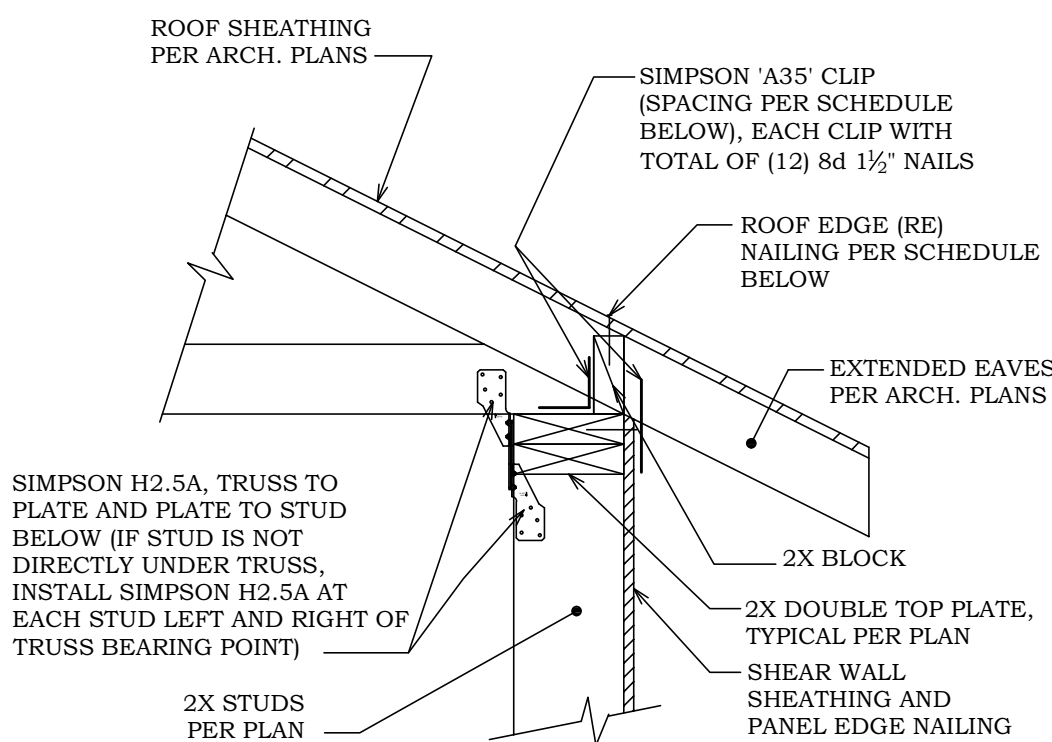
[2] IF HOLDINGS 2, 5, 6, AND 8 ARE INSTALLED FROM FLOOR TO FLOOR, REFER TO DETAIL FF/S1.

[3] U.O.C., INSTALL 1(1)+4 CONTINUOUS HORIZONTAL TOP BAR 3" DOWN FROM TOP OF WALL AT ALL HOLDUP ANCHORS. EXTEND BAR MIN. 5'-0" EAST HOLDUP IN BOTH DIRECTIONS (BEND BAR AROUND AT CORNER CONDITION). FOR THIS 10'-0" SECTION INSTALL 1(1)+4 VERTICAL BAR @ 24" O.C. THE HOLDUP ANCHOR TO HORIZONTAL TOP BAR.

Diagram illustrating the MINIMUM CONTINUOUS PANEL LENGTH for a SHEAR WALL PANEL. The diagram shows a horizontal section of a wall with a hatched area representing the panel. Labels include: MINIMUM CONTINUOUS PANEL LENGTH, D# (diameter of reinforcement bar), SHEAR WALL PANEL, HOLDOWN TYPE, EDGE OF WINDOW, DOOR, OR CORNER, and HOOK AT END OF PANEL. Arrows indicate the edge of the window, door, or corner and the hook at the end of the panel.

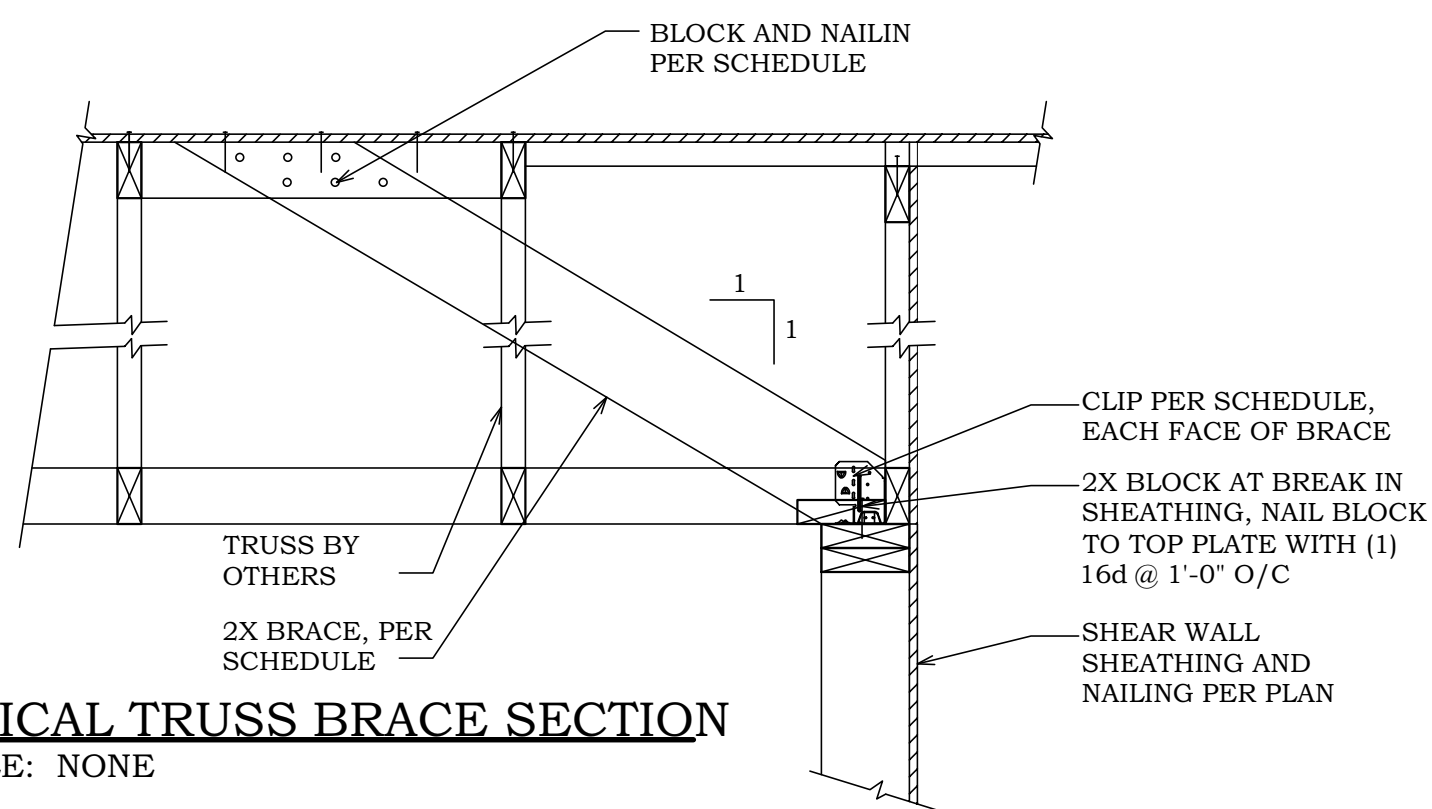


~~FSP~~ FDN. SILL PLATE SECTION
~~S1~~



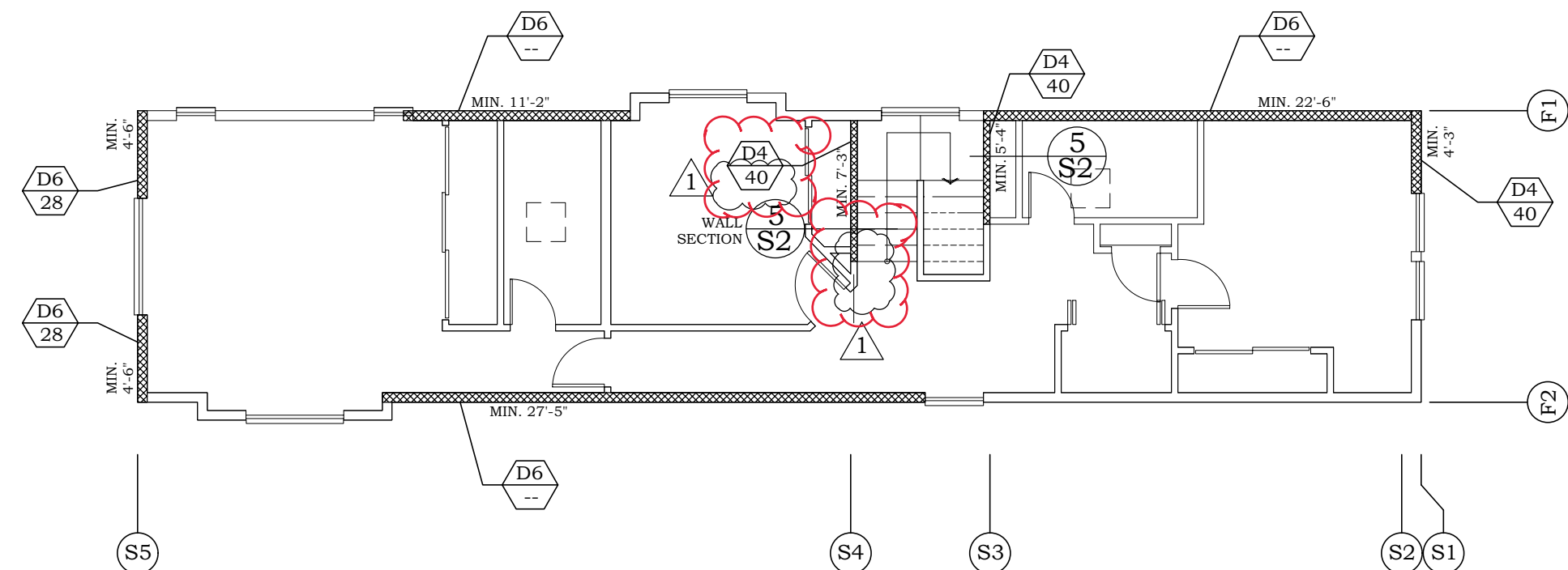
S1 NOTE:
1. IN LIEU OF CLIPS, BREAK SHEAR WALL
PANELS AT BLOCKING OR RIM JOIST (INSTALL
PANEL EDGE NAILING AT BREAK).

PANEL TYPE	'SP NAIL SPACING	SIMPSON CLIP SPACING	'RE NAIL SPACING
D6	16d @ 8" O.C.	1'-8" O.C.	8d @ 8" O.C.
D4	16d @ 4" O.C.	1'-2" O.C.	8d @ 4" O.C.
D3	16d @ 3" O.C.	0'-11" O.C.	8d @ 3" O.C.
D2	16d @ 3" O.C.	8" O.C.	8d @ 2 1/2" O.C.
E2	16d @ 2" O.C.	7" O.C.	8d @ 2" O.C.
D3X2	16d @ 3" O.C. (2) ROWS	1'-0" O.C. (2) ROWS	8d @ 3" O.C. (2) ROWS
D2X2	16d @ 2" O.C. (2) ROWS	10" O.C. (2) ROWS	8d @ 2" O.C. (2) ROWS

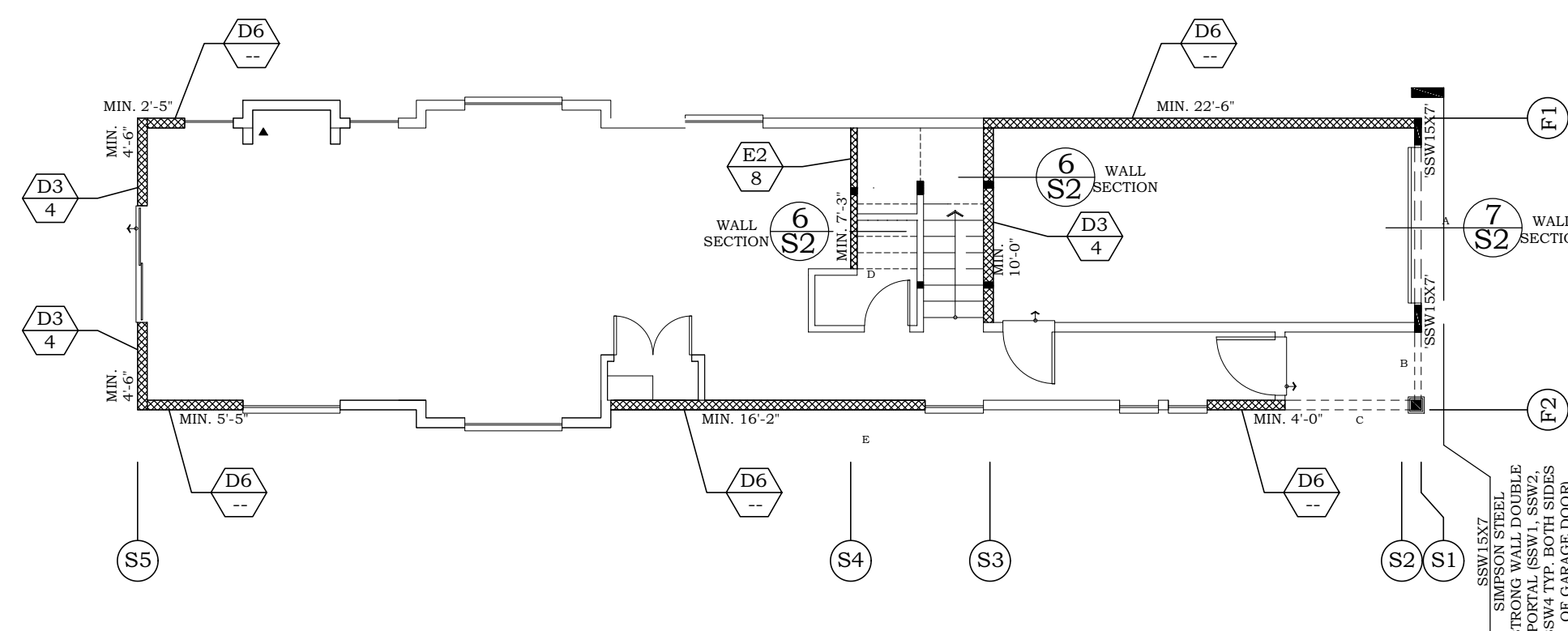


Date: 11/12/21

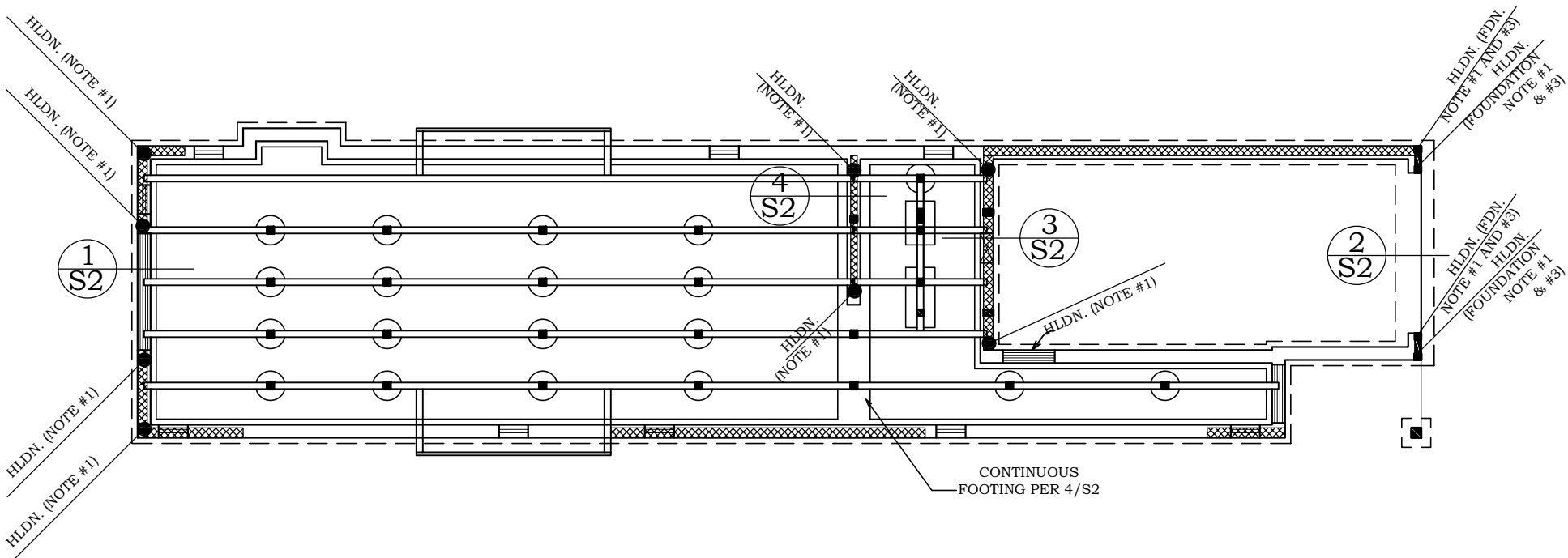
Permit #: 21-065911-000-00-RS



NOTE:
1. REFER TO FRAMING REQUIREMENTS FOR TYPICAL EXTERIOR SHEATHING AND NAILING, ROOF SHEATHING AND NAILING AND FLOOR SHEATHING AND NAILING REQUIREMENTS.



NOTE:
1. REFER TO FRAMING REQUIREMENTS FOR TYPICAL EXTERIOR SHEATHING AND NAILING, ROOF SHEATHING AND NAILING AND FLOOR SHEATHING AND NAILING REQUIREMENTS.



FOUNDATION NOTES

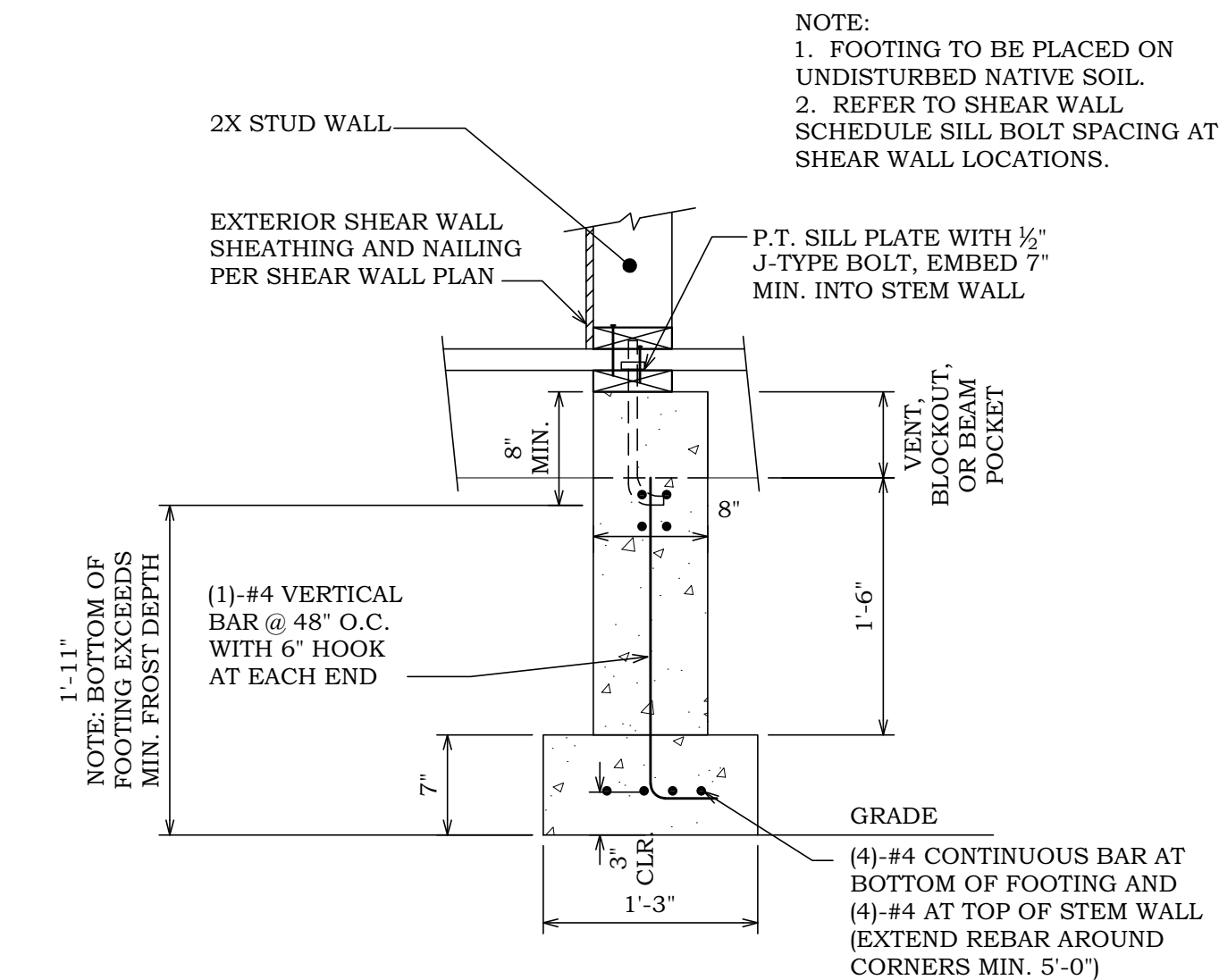
1. REFER TO MAIN FLOOR SHEAR WALL PLAN FOR HOLDOWN SIZE.
2. THIS DRAWING IS FOR LATERAL INFORMATION ONLY, REFER TO ARCHITECTURAL PLANS FOR ALL OTHER INFORMATION.
3. ANCHOR BOLT TO BE SIMPSON 'SSWAB1X24' (REFER TO 2/S2 AND SSW1, SSW2, SSW4).

MATERIALS:
CONCRETE. MIN. 28-DAY CONCRETE STRENGTH = 2500 psi.
GRADE BEAMS, PIERS, AND SPREAD FOOTINGS SHALL BE POURED ONTO UNDISTURBED, NATIVE SOIL WHICH IS FREE FROM ANY MATERIAL THAT WILL ADVERSELY AFFECT THE SOIL DESIGN BEARING PRESSURE REFERENCED ABOVE. ALL NON-STRUCTURAL WEATHER PROOFING AND FINISH MATERIAL TO BE DETERMINED "BY OTHERS".

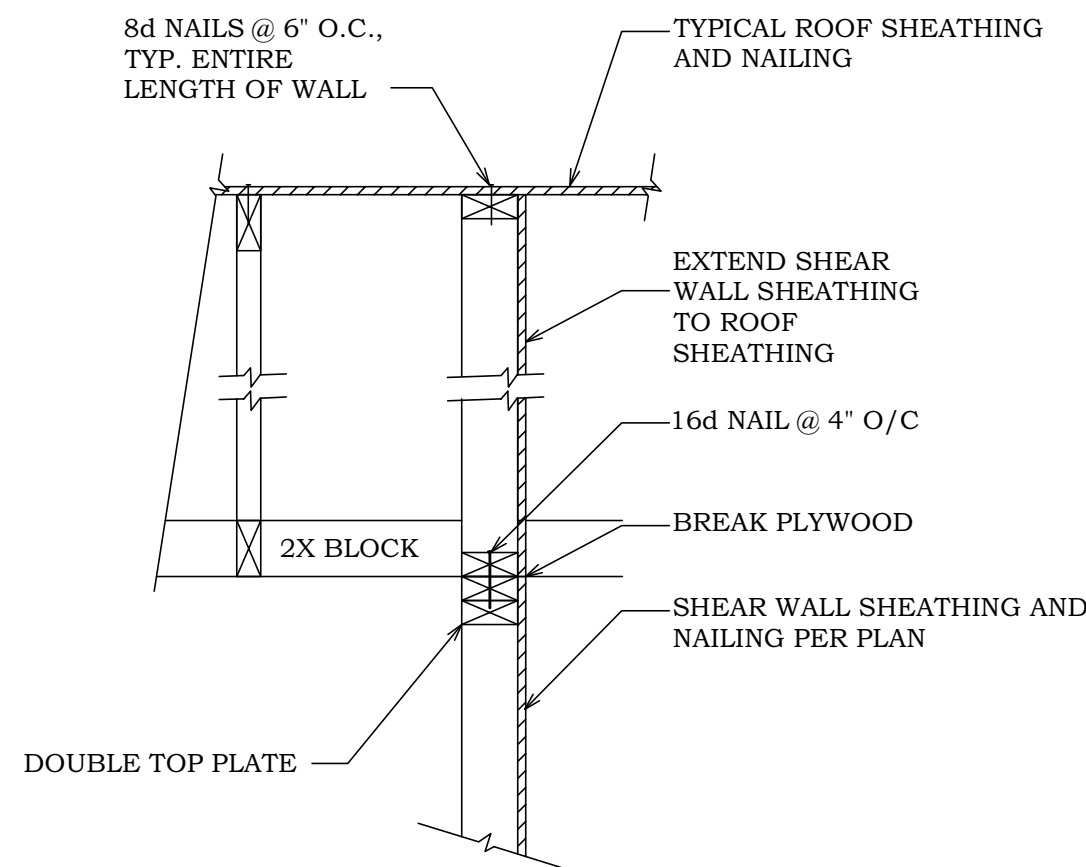
SLAB CONTROL JOINTS: PER OWNERS REQUIREMENTS OR DIRECTION

MISC. SITE PREPARATIONS:
OBTAIN AND OBEY ALL APPLICABLE REGULATIONS REGARDING GRADING AND EXCAVATION. IDENTIFY, MARK, AND PROTECT FROM DAMAGE ALL EXISTING UTILITIES, STRUCTURES, AND OBSTACLES. EXCAVATE AND REMOVE ALL STORM SEWER, GAS, STEAM, ELECTRICAL AND COMMUNICATION CABLE. REMOVE SOIL WITH ORGANIC MATTER. PERFORM BACKFILL AND COMPACTION IN A SYSTEMATIC PATTERN, TO ASSURE COMPLETE AND CONSISTENT WORK. IF ANY OVER-EXCAVATION OCCIDENTALLY OCCURS, CORRECT IT WITH WELL-COMPACTED FILL. PERFORM FIELD TESTS AND INSPECTION OF BACKFILL AND COMPACTION. LAYER BACKFILL IN 6 IN. TO 12 IN INCREMENTS. COMPACT ALL FILL. USE STABILIZED FILL MATERIAL OF AN APPROVED TYPE AND FROM AN APPROVED SOURCE. TEST AND APPROVE MATERIAL DELIVERED FROM OTHER SITES. DO NOT ALLOW FILL TO BE MIXED WITH FILL. CURE CONCRETE TO THE REQUIRED STRENGTH BEFORE BACKFILLING. PROVIDE DRAINAGE CATCHERS PER ARCHITECTURAL DRAWINGS.

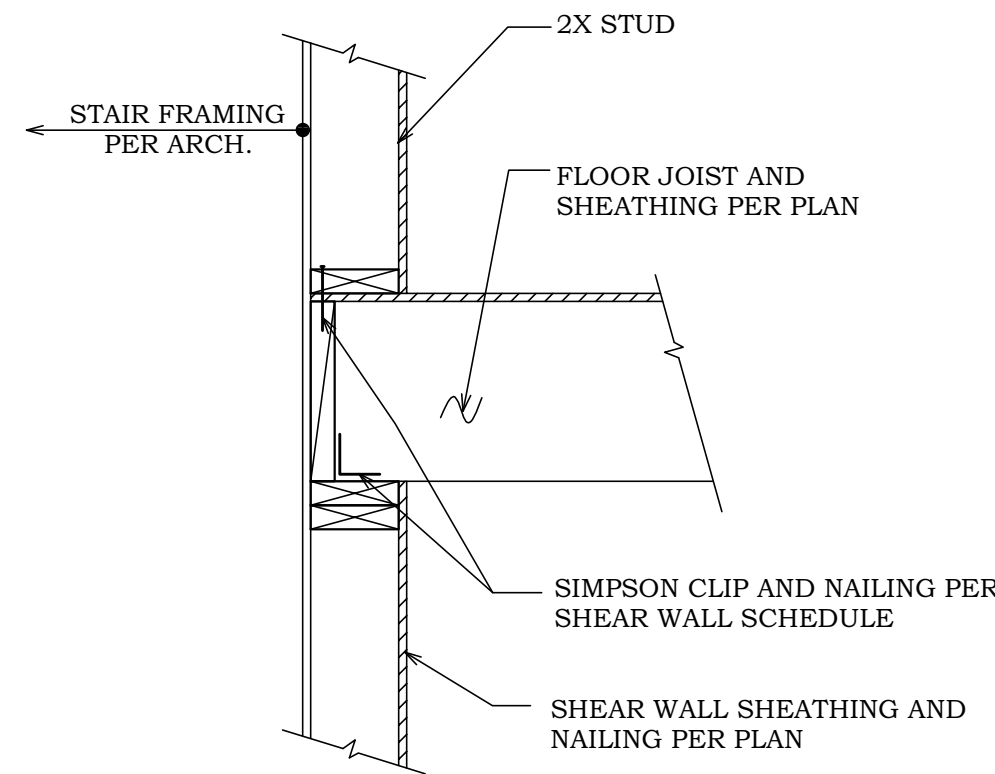
SPECIAL INSPECTION: NONE



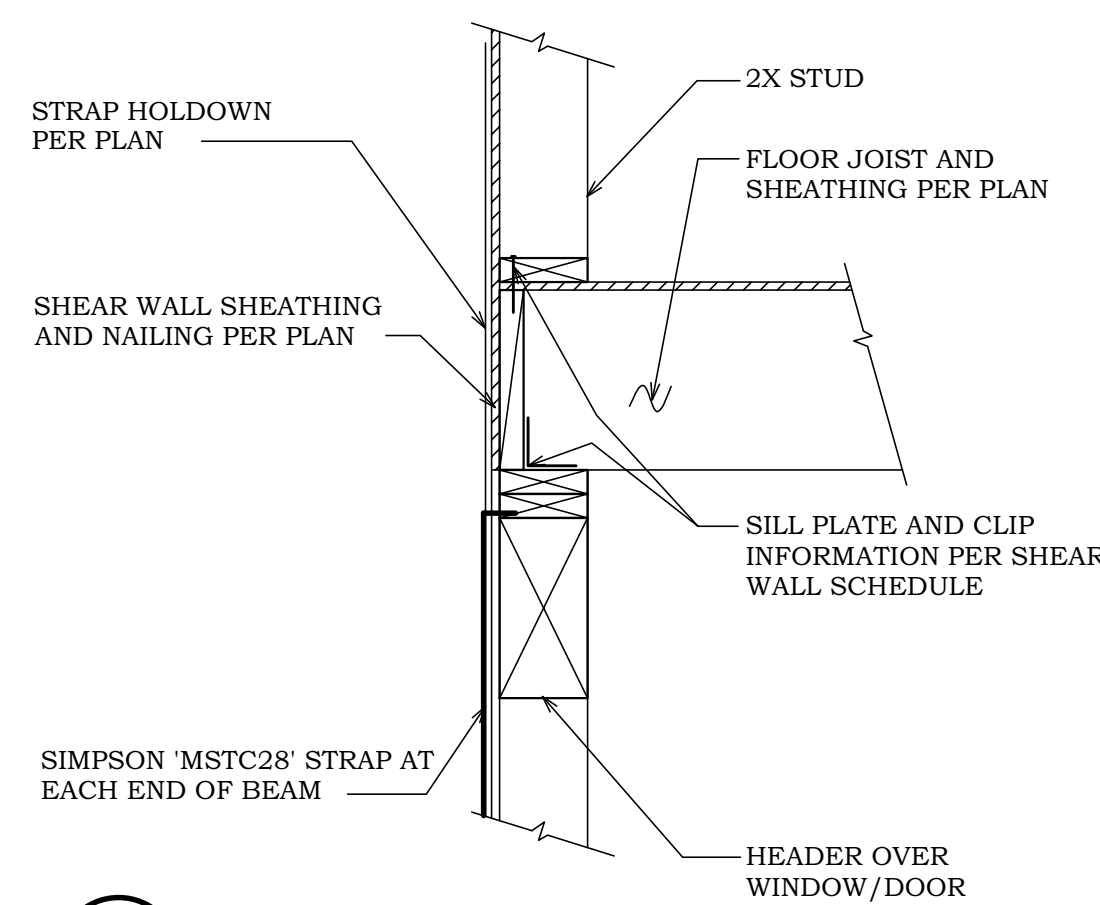
4 FOOTING SECTION
S2.0 SCALE: 1" = 1'-0"



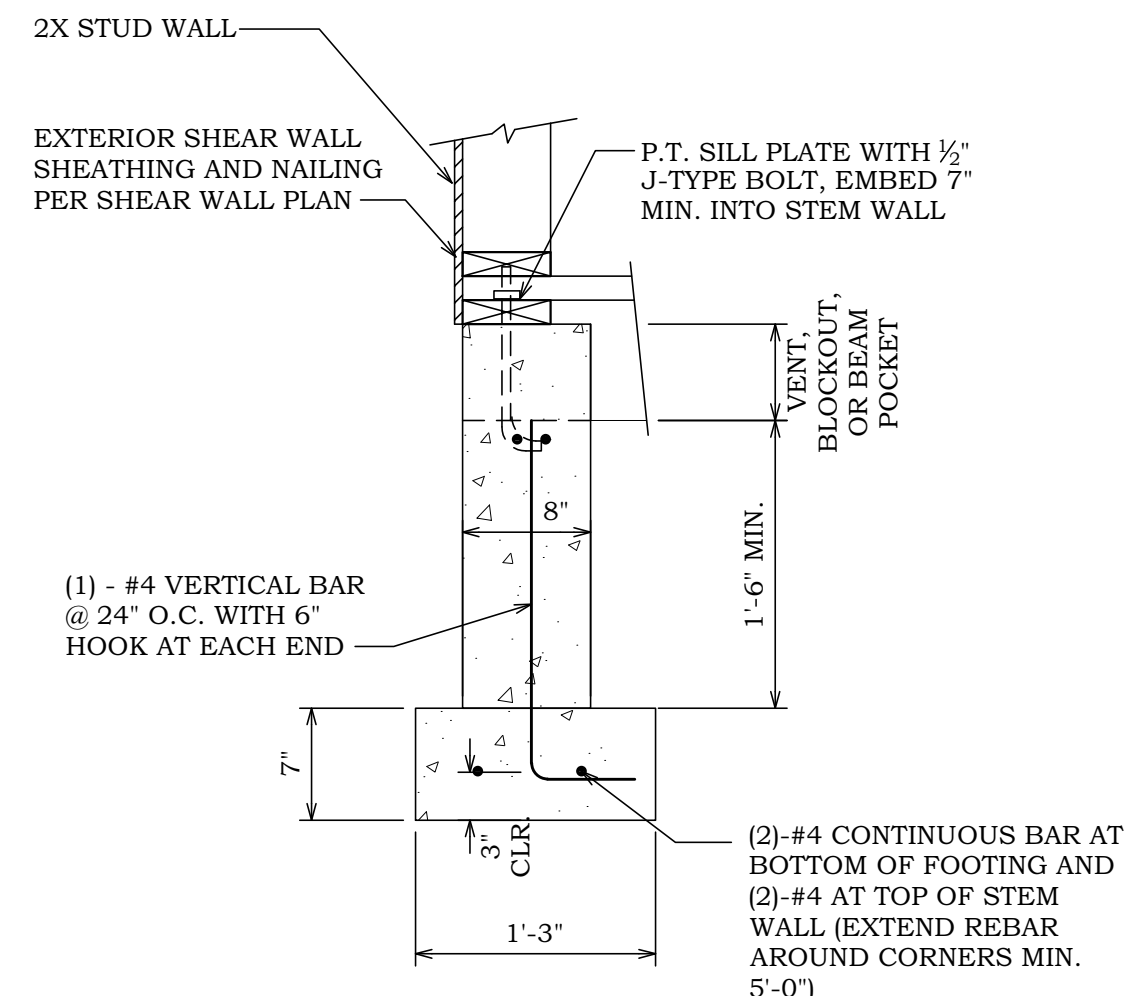
5 WALL SECTION
S2 SCALE: 1" = 1'-0"



6 WALL SECTION
S2 SCALE: 1" = 1'-0"

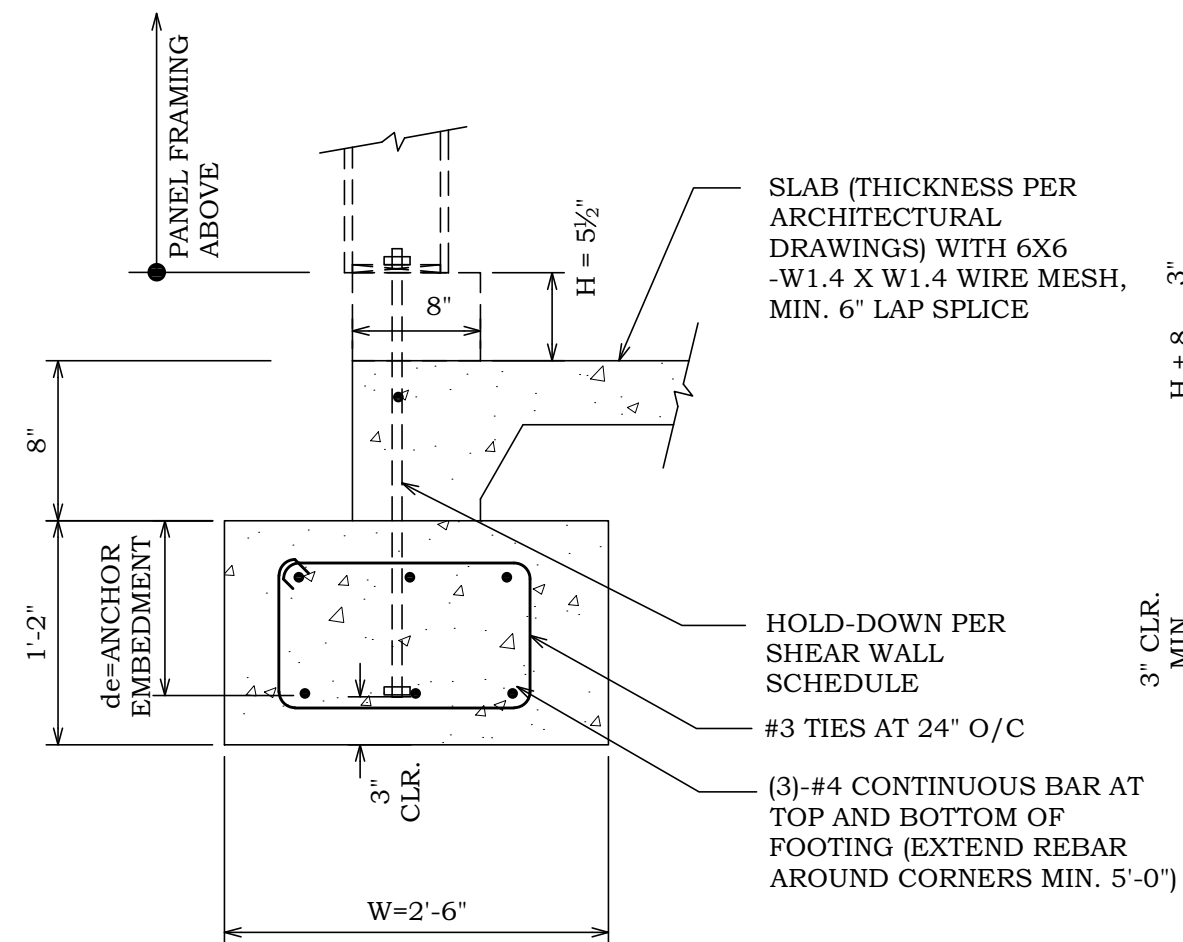


7 WALL SECTION
S2 SCALE: 1" = 1'-0"



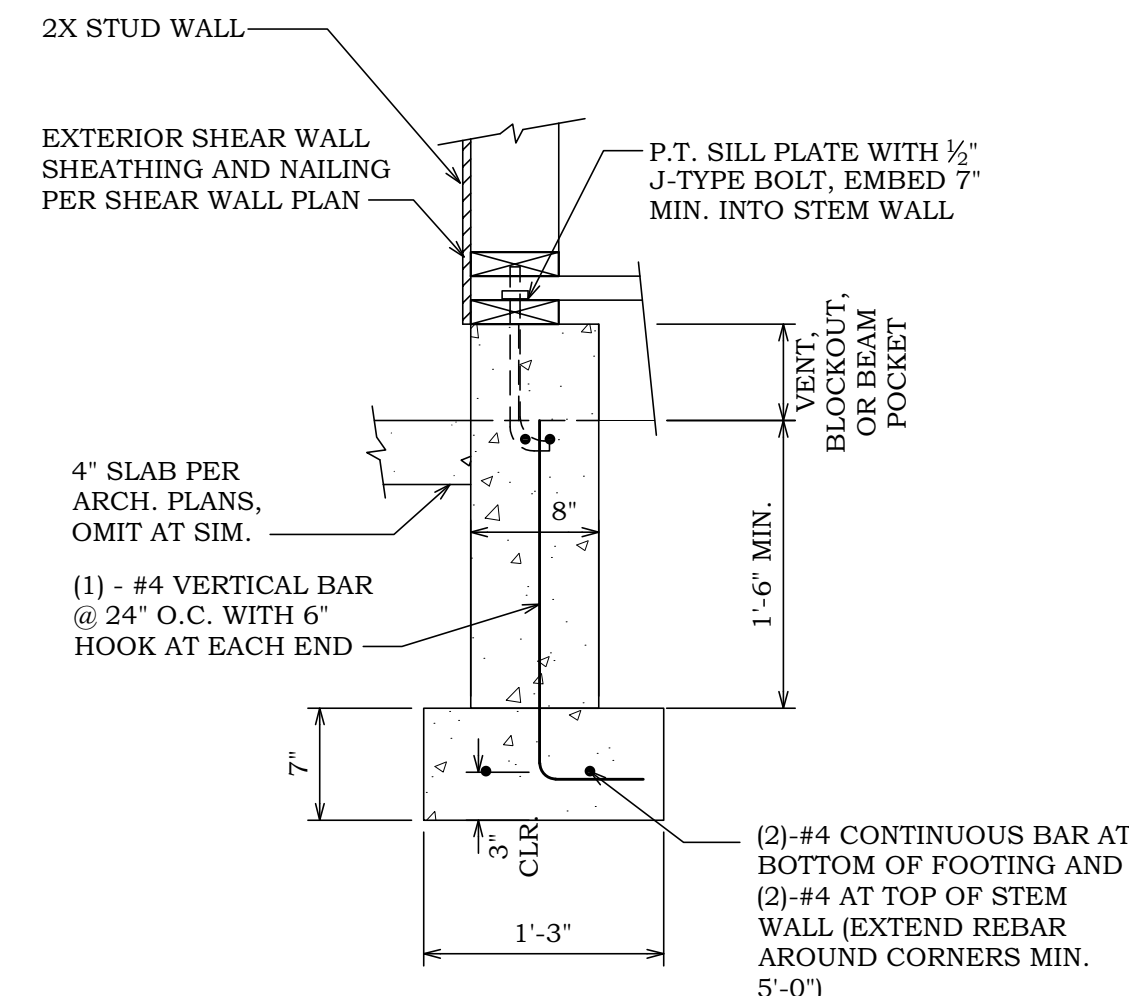
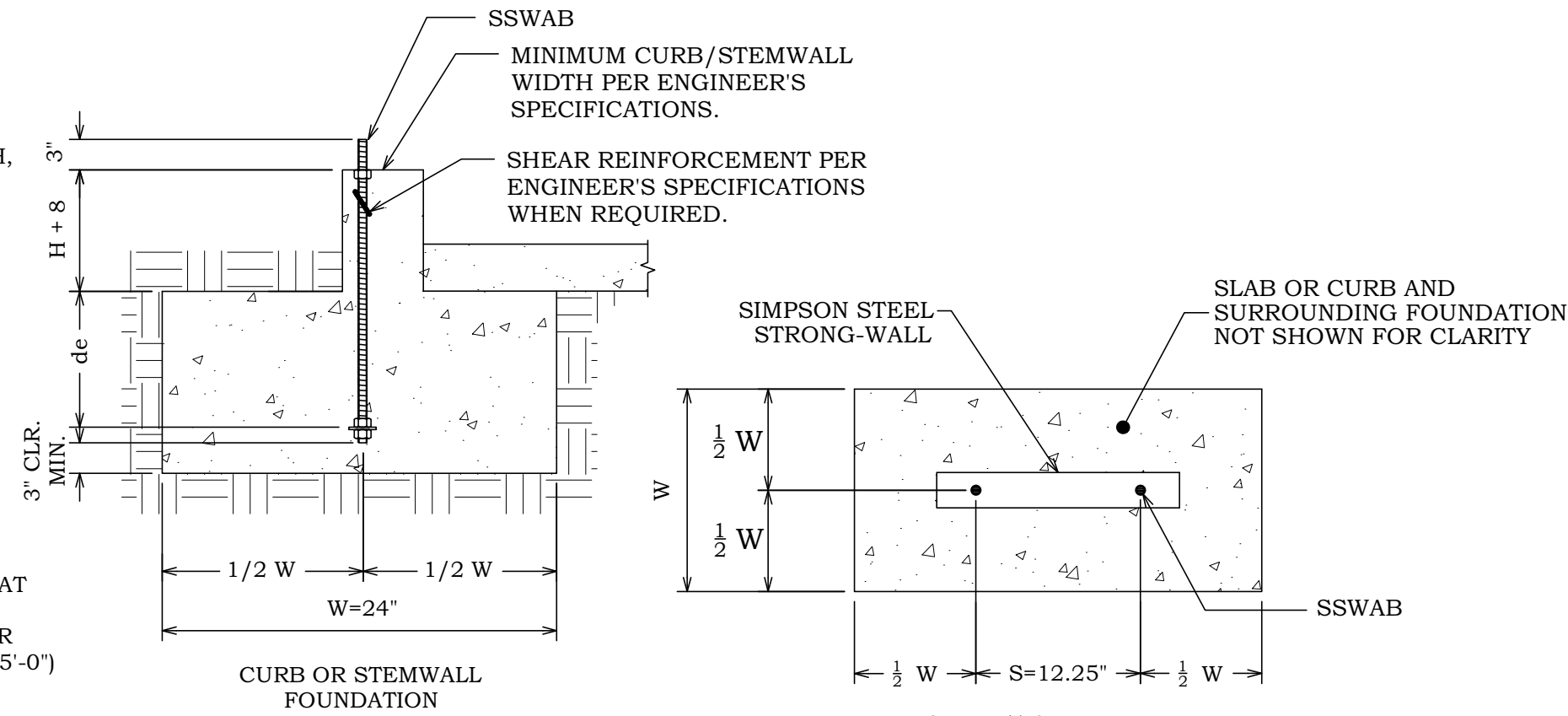
NOTE:
1. FOOTING TO BE PLACED ON UNDISTURBED NATIVE SOIL.
2. REFER TO SHEAR WALL SCHEDULE SILL BOLT SPACING AT SHEAR WALL LOCATIONS.

1 FOOTING SECTION
S2.0 SCALE: 1" = 1'-0"



NOTE:
1. FOOTING TO BE PLACED ON UNDISTURBED NATIVE SOIL.
2. DRIVEWAY SURFACE NOT SHOWN.

2 FOOTING SECTION
S2.0 SCALE: 1" = 1'-0"



NOTE:
1. FOOTING TO BE PLACED ON UNDISTURBED NATIVE SOIL.
2. REFER TO SHEAR WALL SCHEDULE SILL BOLT SPACING AT SHEAR WALL LOCATIONS.

3 FOOTING SECTION
S2.0 SCALE: 1" = 1'-0"

DESCRIPTION

DATE

No.

PROJECT NAME

MHD 1753-B1
STRUCTURAL DETAILS

TURNER
ENGINEERING & DESIGN
Office: (503) 979-8407
Email: turner.team@turnereng.com
PO BOX 220
EAGLE CREEK, OREGON 97022

ENGINEERS STAMP

REGISTERED PROFESSIONAL
ENGINEER
58948PE
JULY 15, 2006
OREGON
RICHARD J. TURNER

EXP. DATE: 06-30-22

ISSUE

CD

DESIGNED BY

RJT

DRAWN BY

RJT

CHECKED BY

RJT

DATE

06/30/21

PROJECT NO.

R21351

SHEET NO.

S2.0

INTENTIONALLY LEFT BLANK

City of Portland
Reviewed for
Code Compliance

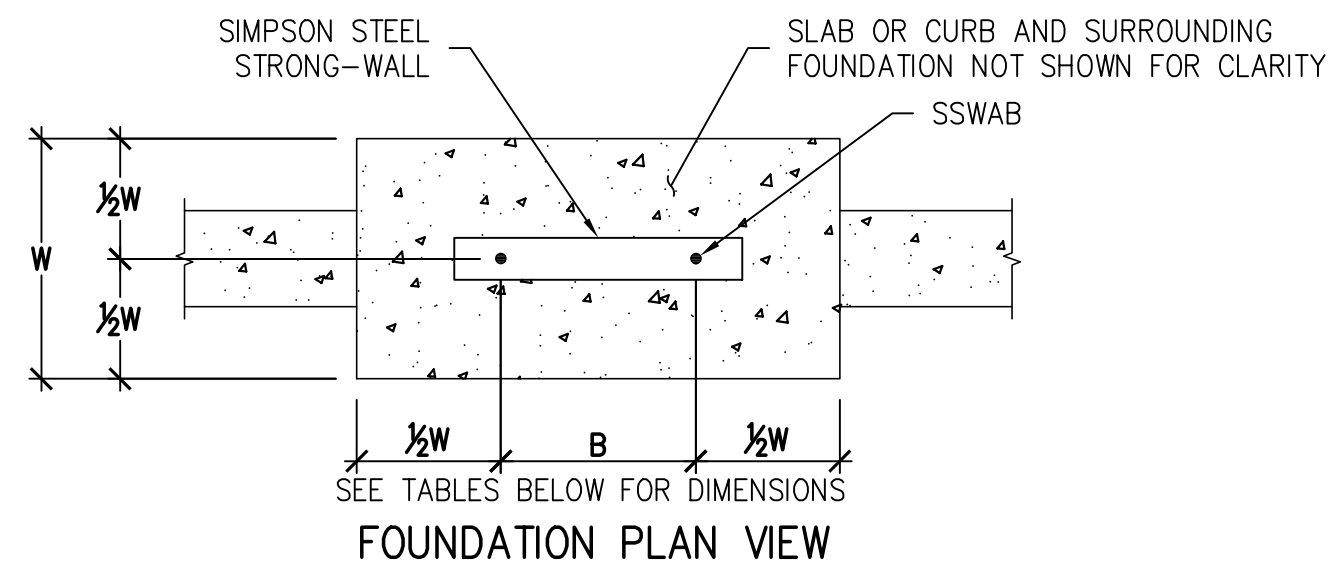
Date: 11/12/21

Permit #: 21-065911-000-00-RS

INTENTIONALLY LEFT BLANK

STEEL STRONG-WALL ANCHORAGE – TYPICAL SECTIONS

1



STEEL STRONG-WALL ANCHORAGE SOLUTIONS FOR 2500 PSI CONCRETE

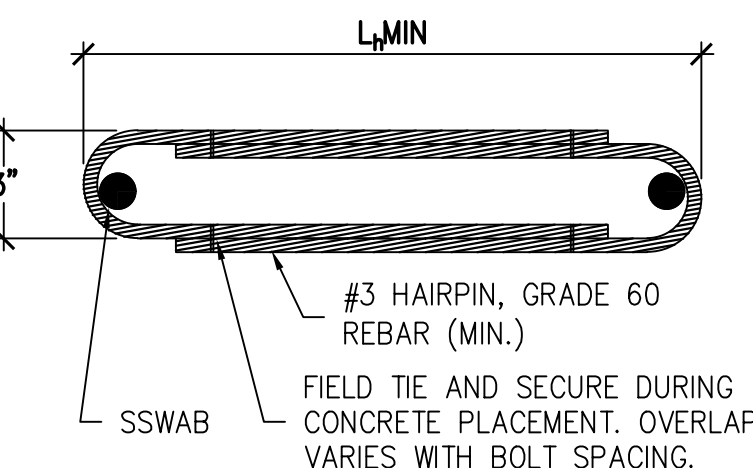
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	SSWAB 1" ANCHOR BOLT		
			ASD ALLOWABLE UPLIFT (lbs)	W (in.)	de (in.)
SEISMIC	CRACKED	STANDARD	16,100	33	11
		HIGH STRENGTH	17,100	35	12
			33,000	51	17
	UNCRAKED	STANDARD	35,300	54	18
			15,700	28	10
		HIGH STRENGTH	17,100	30	10
WIND	CRACKED	STANDARD	32,300	44	15
			35,300	47	16
			6,200	16	6
		HIGH STRENGTH	11,400	24	8
			17,100	32	11
			21,100	36	12
	UNCRAKED	STANDARD	27,300	42	14
			31,800	46	16
			35,300	50	17
			6,400	14	6
			12,500	22	8
		HIGH STRENGTH	17,100	28	10

NOTES :

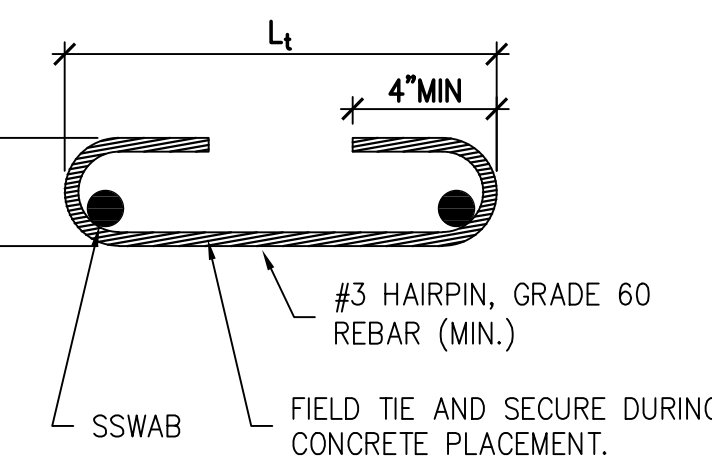
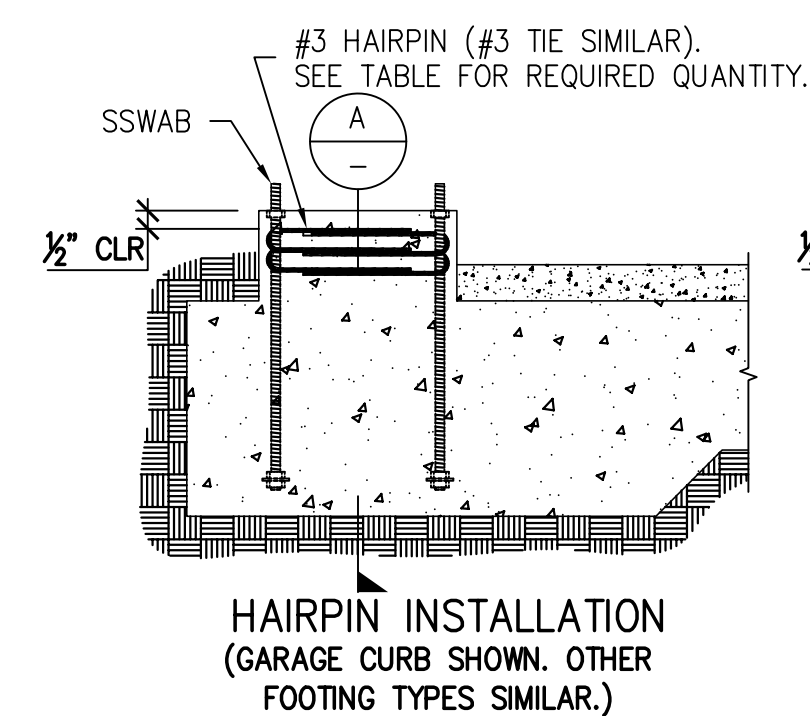
- ANCHORAGE DESIGNS CONFORM TO ACI 318-14 AND ACI 318-11 APPENDIX D WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.
- ANCHOR STRENGTH INDICATES REQUIRED GRADE OF SSWAB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A449).
- SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-14 SECTION 17.2.3.4.3 AND ACI 318-11 SECTION D.3.3.4.
- WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.
- FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE REGISTERED DESIGN PROFESSIONAL MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.
- REFER TO 1/SSW1 FOR de.

SSWAB TENSION ANCHORAGE SCHEDULE 2500 PSI

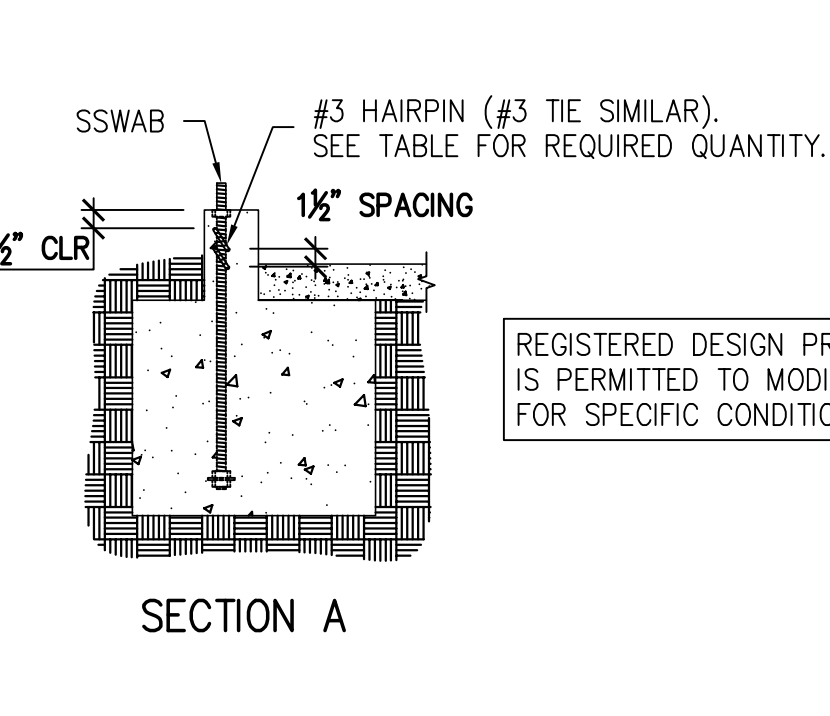
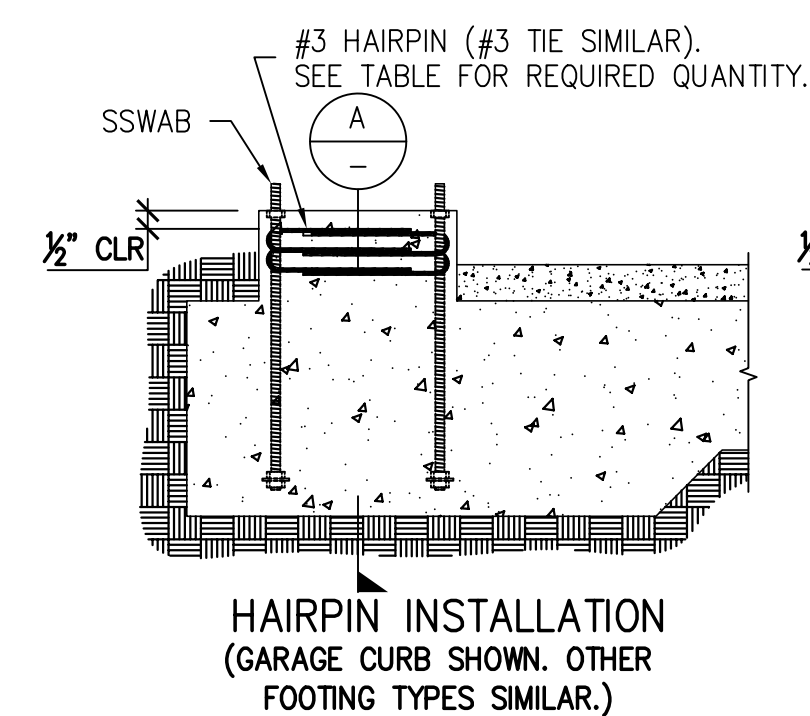
2



HAIRPIN SHEAR REINFORCEMENT



TIE SHEAR REINFORCEMENT



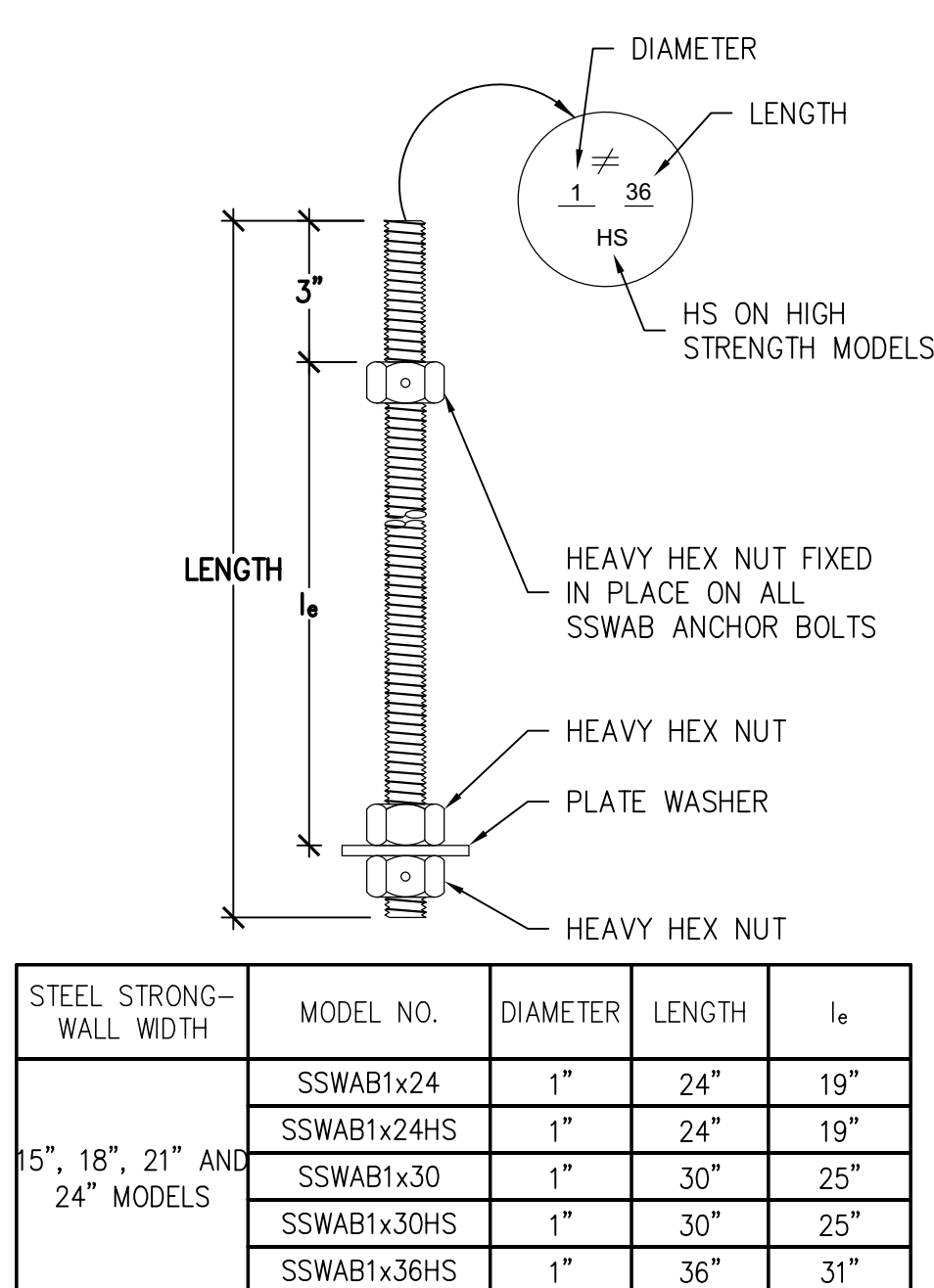
REGISTERED DESIGN PROFESSIONAL IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

NOTES :

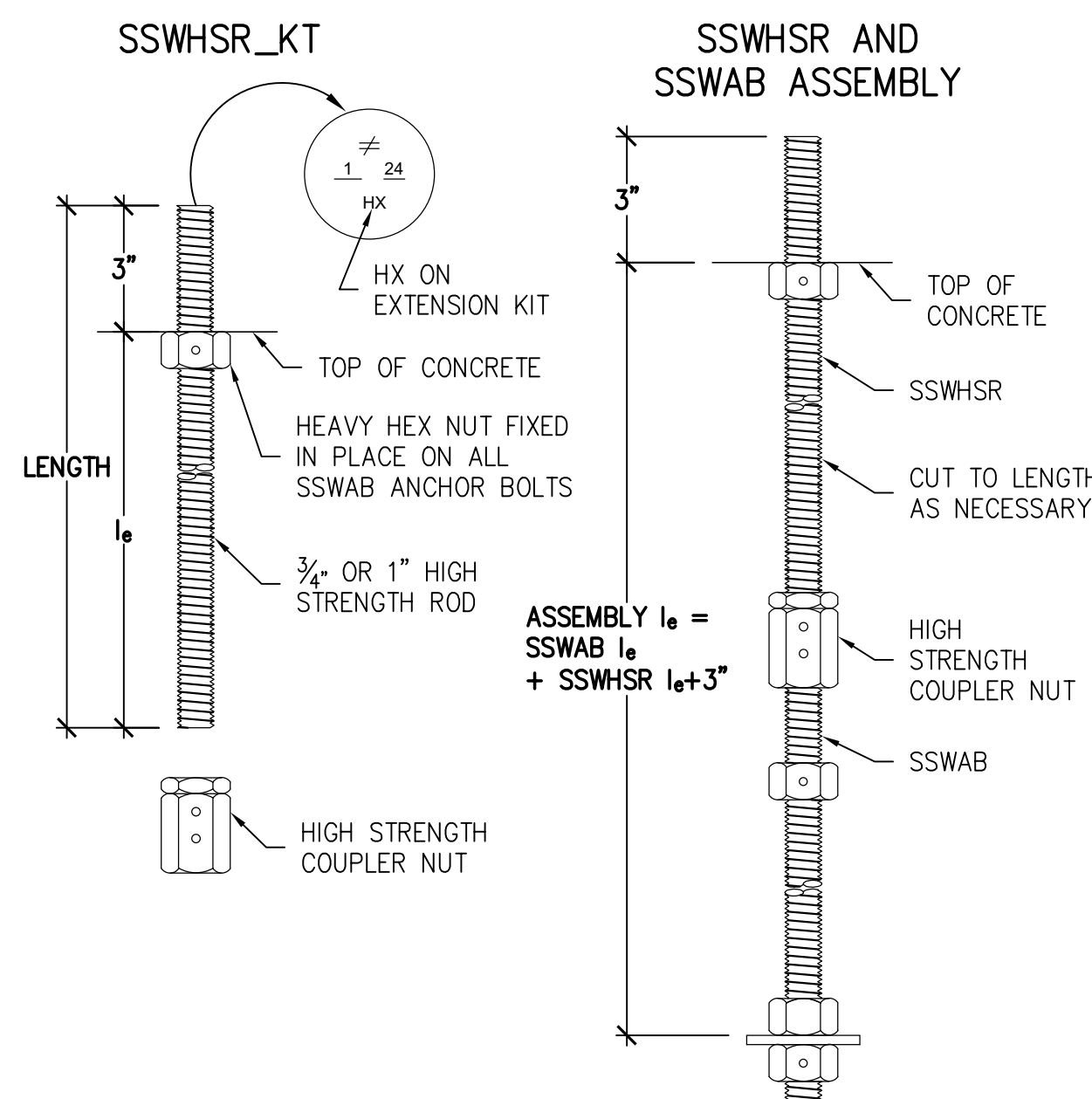
- SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-14 AND ACI 318-11 AND ASSUME MINIMUM $f'_c=2,500$ PSI CONCRETE. SEE DETAILS 1/SSW1 TO 3/SSW1 FOR TENSION ANCHORAGE.
- SHEAR REINFORCEMENT IS NOT REQUIRED FOR PANELS INSTALLED ON A WOOD FLOOR, INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS.
- SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS.
- WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B.
- MINIMUM CURB/STEMWALL WIDTH IS 6" WHEN STANDARD STRENGTH SSWAB IS USED.
- USE (1) #3 TIE FOR SSW12 AND SSW15 WHEN THE STEEL STRONG-WALL PANEL DESIGN SHEAR FORCE EXCEEDS THE TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
- CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-14 SECTION 17.7.2 AND ACI 318-11 D.8.2.

STEEL STRONG-WALL ANCHOR BOLT SHEAR ANCHORAGE

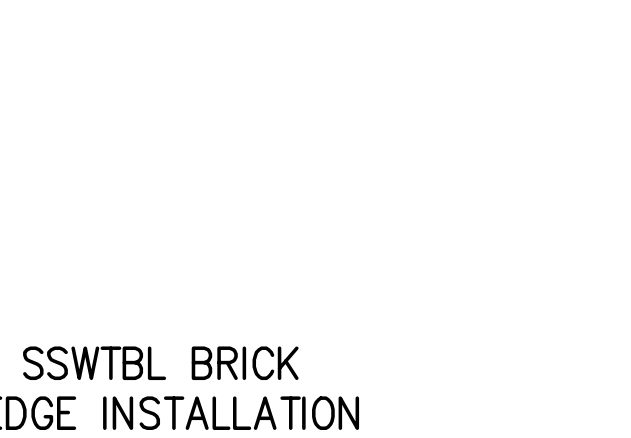
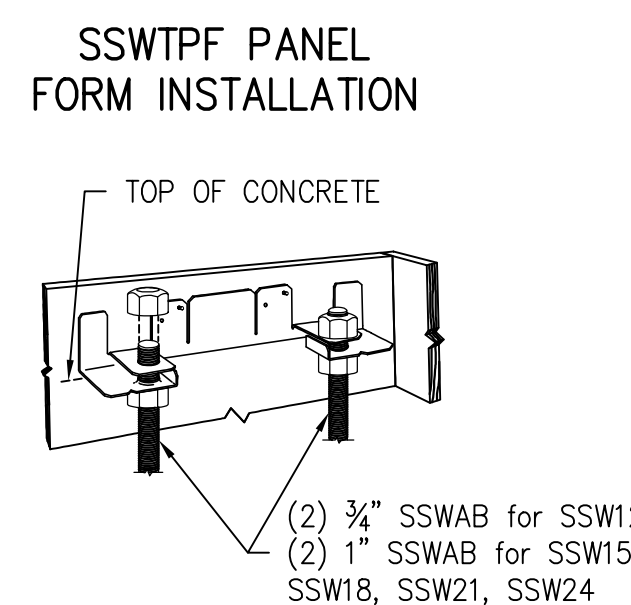
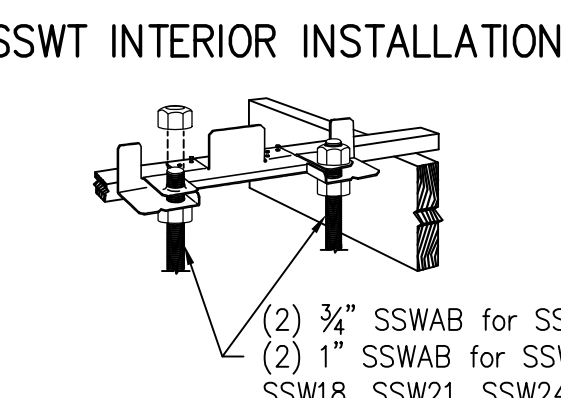
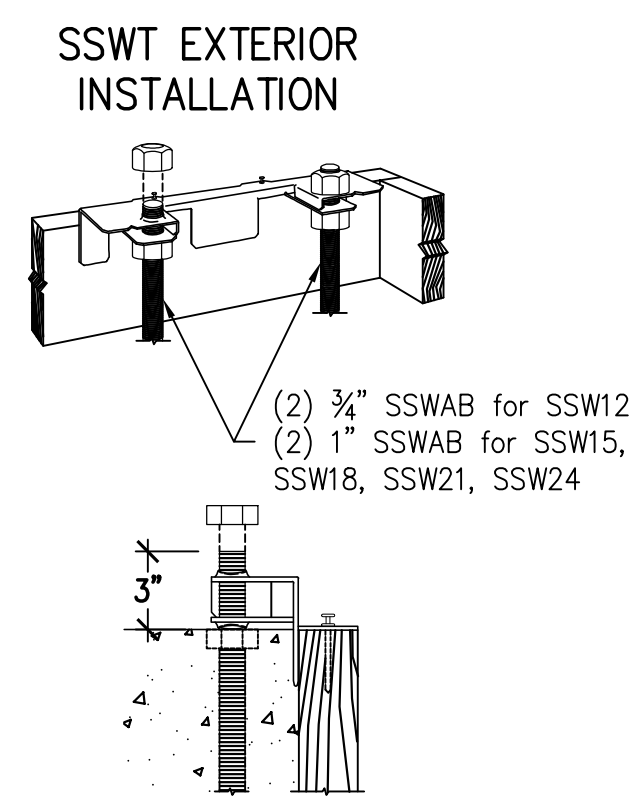
4



STEEL STRONG-WALL WIDTH	MODEL NO.	DIAMETER	LENGTH	le
15", 18", 21" AND 24" MODELS	SSWAB1x24	1"	24"	19"
	SSWAB1x24HS	1"	24"	19"
	SSWAB1x30	1"	30"	25"
	SSWAB1x30HS	1"	30"	25"
	SSWAB1x36HS	1"	36"	31"



SSW WIDTH	MODEL NO.	DIAMETER	TOTAL LENGTH	le
15", 18", 21" AND 24" MODELS	SSWHSR1-2KT	1"	24"	21"
	SSWHSR1-3KT	1"	36"	33"



STEEL STRONG-WALL ANCHORAGE DETAILS ENGINEERED DESIGNS

SIMPSON
Strong-Tie
THERE IS NO EQUAL

NAME
DATE
6-18-2020
SCALE
N.T.S.
CHECKED
SHEET
SSW1
OF SHEETS
JOB NO.

SIMPSON Strong-Tie, Co. Inc.

5956 W. Las Positas Blvd.
Pleasanton, CA 94588
Tel: (800) 999-5099
Website: www.strongtie.com

SIMPSON
Strong-Tie
THERE IS NO EQUAL

SUBMITTED 9/20/2021



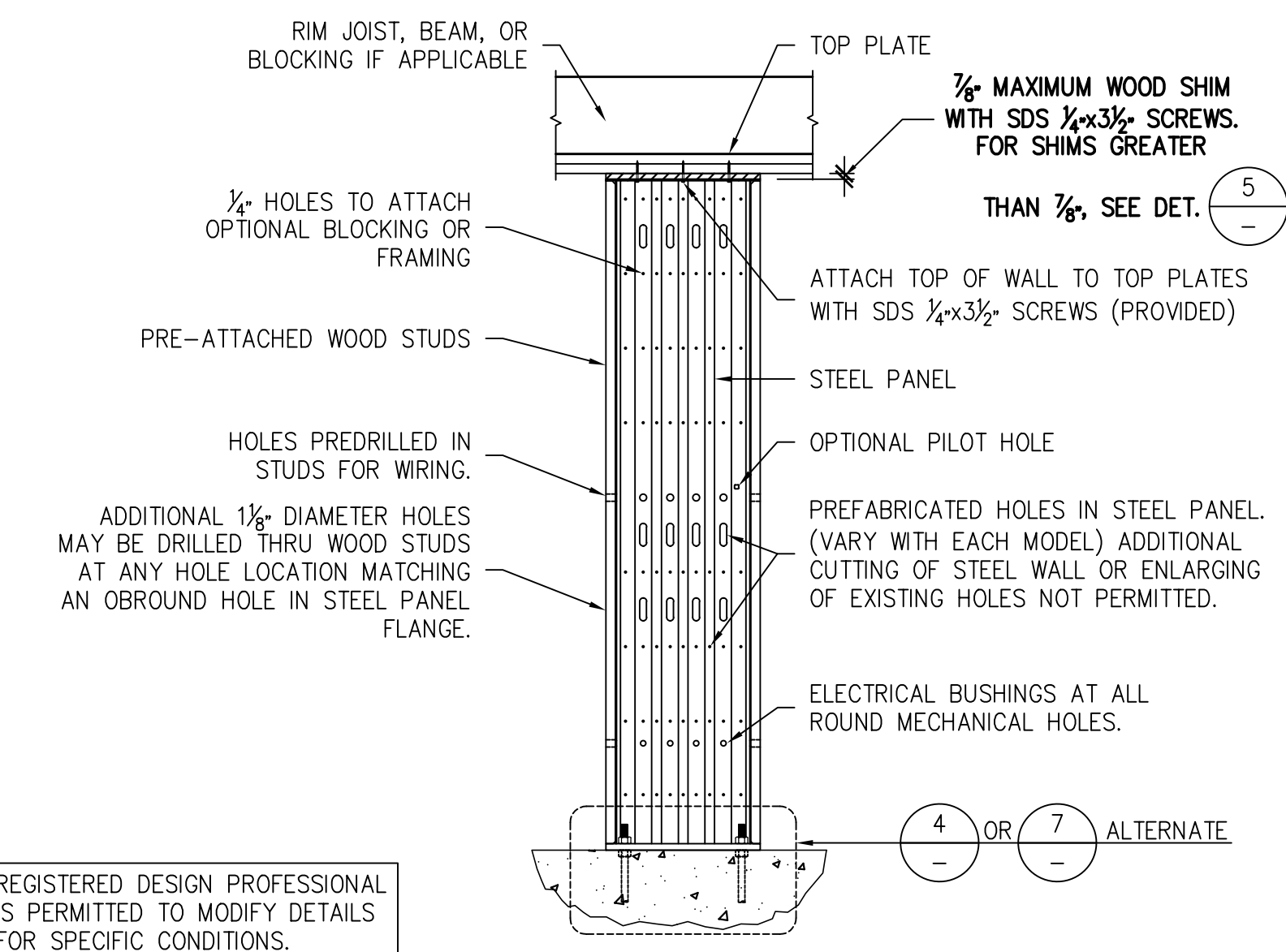
TABLE NOTES :

1. SDS 1/4"x3 1/2" SCREWS PROVIDED WITH WALL.
2. SEE SHEET SSW1 FOR ANCHORAGE SOLUTIONS

STEEL STRONG-WALL MODELS					
STD. WALL MODEL NO.	-STK WALL MODEL NO.	H(in)	T(in)	HOLDOWN ANCHOR BOLTS*	QTY. OF TOP OF WALL SCREWS
SSW15x8	SSW15x8-STK	9 3/4	3 1/2	2-1"	6

STEEL STRONG-WALL MODELS

1



SINGLE-STORY SSW ON CONCRETE

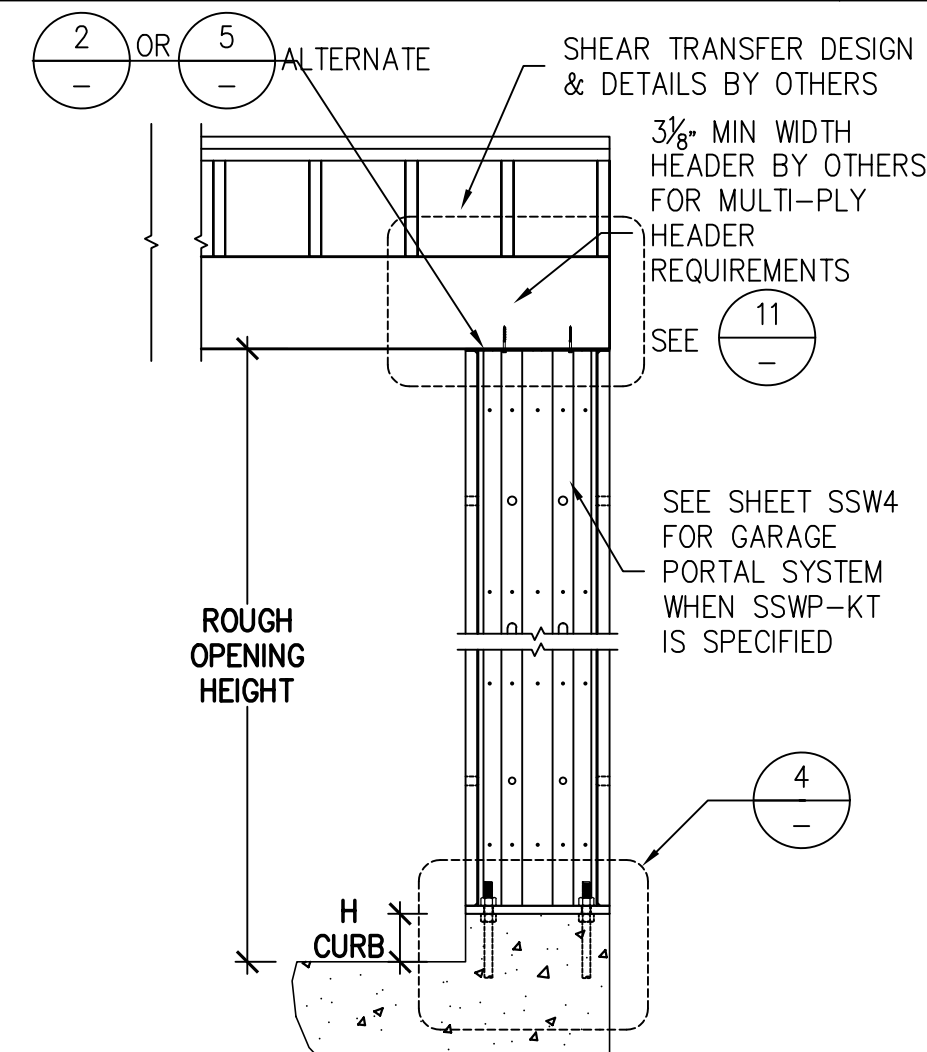
2

GARAGE HEADER
ROUGH OPENING HEIGHT

MODEL NO.	H CURB	ROUND OPENING HEIGHT
SSW12X7 SSW15X7 SSW18X7 SSW21X7 SSW24X7	5½"	7'-1½"
	6"	7'-2"
SSW12X7 SSW15X7 SSW18X7 SSW21X7 SSW24X7	5½"	8'-2¾"
	6"	8'-3¾"

1. THE HEIGHT OF THE GARAGE CURB ABOVE THE GARAGE SLAB IS CRITICAL FOR THE ROUGH HEADER OPENING AT GARAGE RETURN WALLS.
2. SHIMS ARE NOT PROVIDED WITH STEEL STRONG-WALL.
3. FURRING ON UNDERSIDE OF GARAGE HEADER MAY BE NECESSARY FOR LESSER ROUGH OPENING HEIGHTS.

REGISTERED DESIGN PROFESSIONAL
IS PERMITTED TO MODIFY DETAILS
FOR SPECIFIC CONDITIONS.



GARAGE WALL OPTION 2
FOR GARAGE WALL OPTION 2

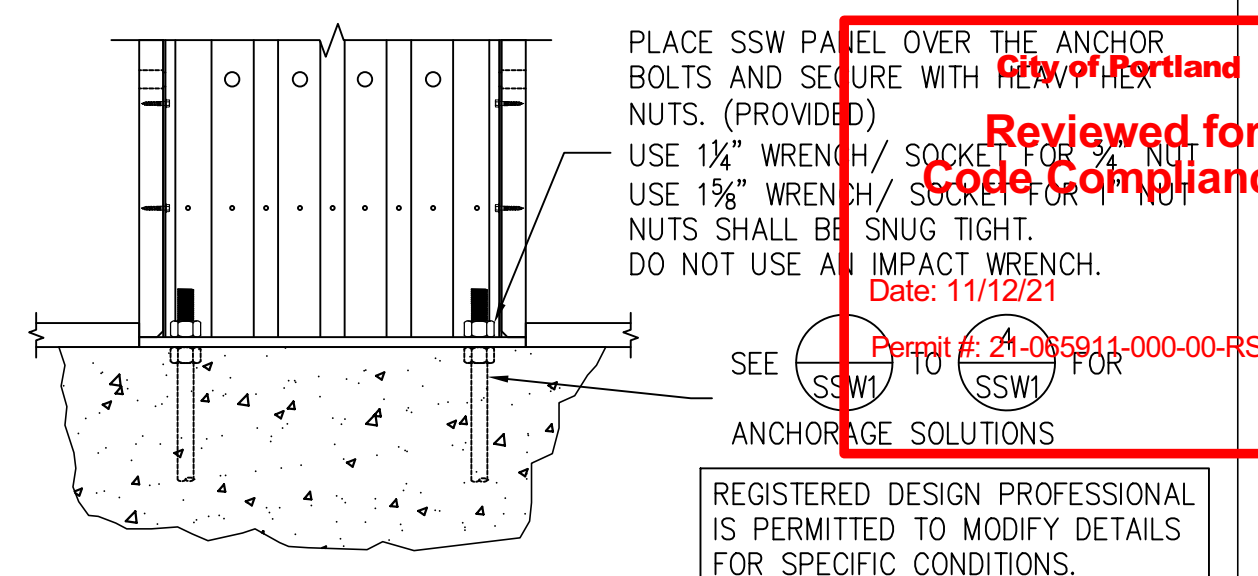
NOTE :
7-FT. HIGH STEEL STRONG-WALL MODELS
ARE 80", 2" TALLER THAN 7-FT. HIGH
WOOD STRONG-WALL SHEARWALLS

REGISTERED DESIGN PROFESSIONAL SHALL DESIGN FOR :

1. SHEAR TRANSFER
2. OUT OF PLANE LOADING EFFECT
3. INCREASED OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT.

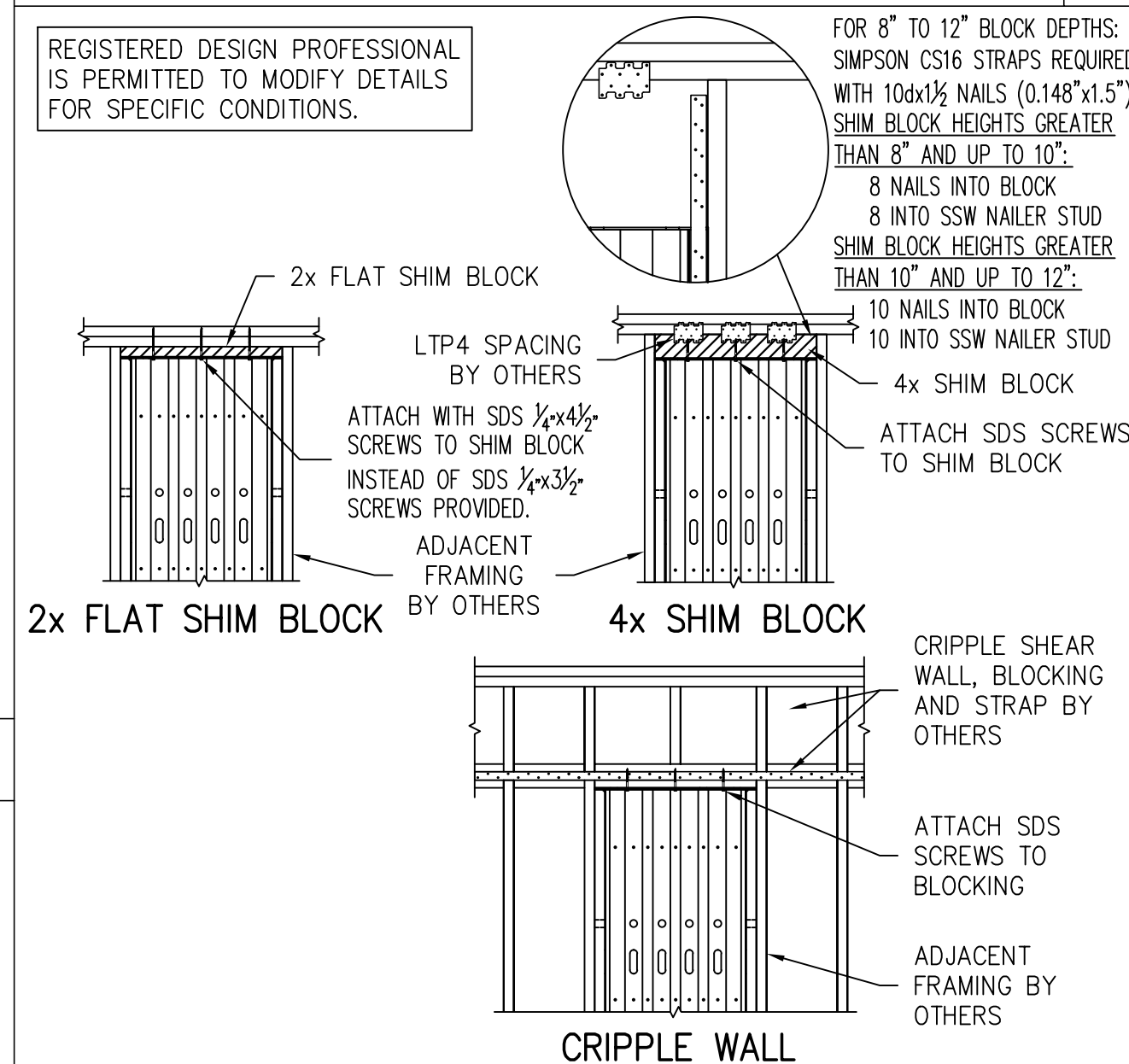
ALTERNATE GARAGE WALL OPTIONS

3



STRONG-WALL ON CONCRETE

4



REGISTERED DESIGN PROFESSIONAL SHALL DESIGN FOR :

1. SHEAR TRANSFER
2. OUT OF PLANE LOADING EFFECT
3. INCREASED OVERTURNING AND DRIFT DUE TO ADDITIONAL HEIGHT.

TOP OF WALL HEIGHT ADJUSTMENTS

5

1. STEEL STRONG-WALL SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY, INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY.
2. USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
3. THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE SPECIFIER.
4. ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STEEL STRONG-WALL SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE SPECIFIER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
6. INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE SPECIFIER.
7. SIMPSON STRONG-TIE COMPANY, INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
8. ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.

NOTES

12

NO.	DATE	REVISIONS
1	09-21-2009	2006 IBC REVISIONS
2	04-16-2014	2012 IBC REVISIONS
3	08-03-2016	2015 IBC REVISIONS
4	06-18-2020	2018 IBC REVISIONS

SIMPSON Strong-Tie, Co. Inc.



© 2000 THE UNIVERSITY OF CHICAGO
THERE IS NO FEE IN

STEEL STRONG-WALL

FRAMING DETAILS

ENGINEERED DESIGNS



THERE IS NO EQUAL®

NAME
DATE 6-18-2020
SCALE N.T.S.
CHECKED
SHEET SSW2
OF SHEETS
JOB NO.

SUBMITTED 9/20/2021

NO.	DATE	REVISIONS
0	09-21-2009	FIRST RELEASE
1	04-16-2014	2012 IBC REVISIONS
2	08-08-2016	2015 IBC REVISIONS
3	06-18-2020	2018 IBC REVISIONS

SIMPSON Strong-Tie, Co. Inc.

• 5956 W. Las Positas Blvd.
Pleasanton, CA 94588
• Tel: (800) 999-5099
• Website: www.strongtie.com



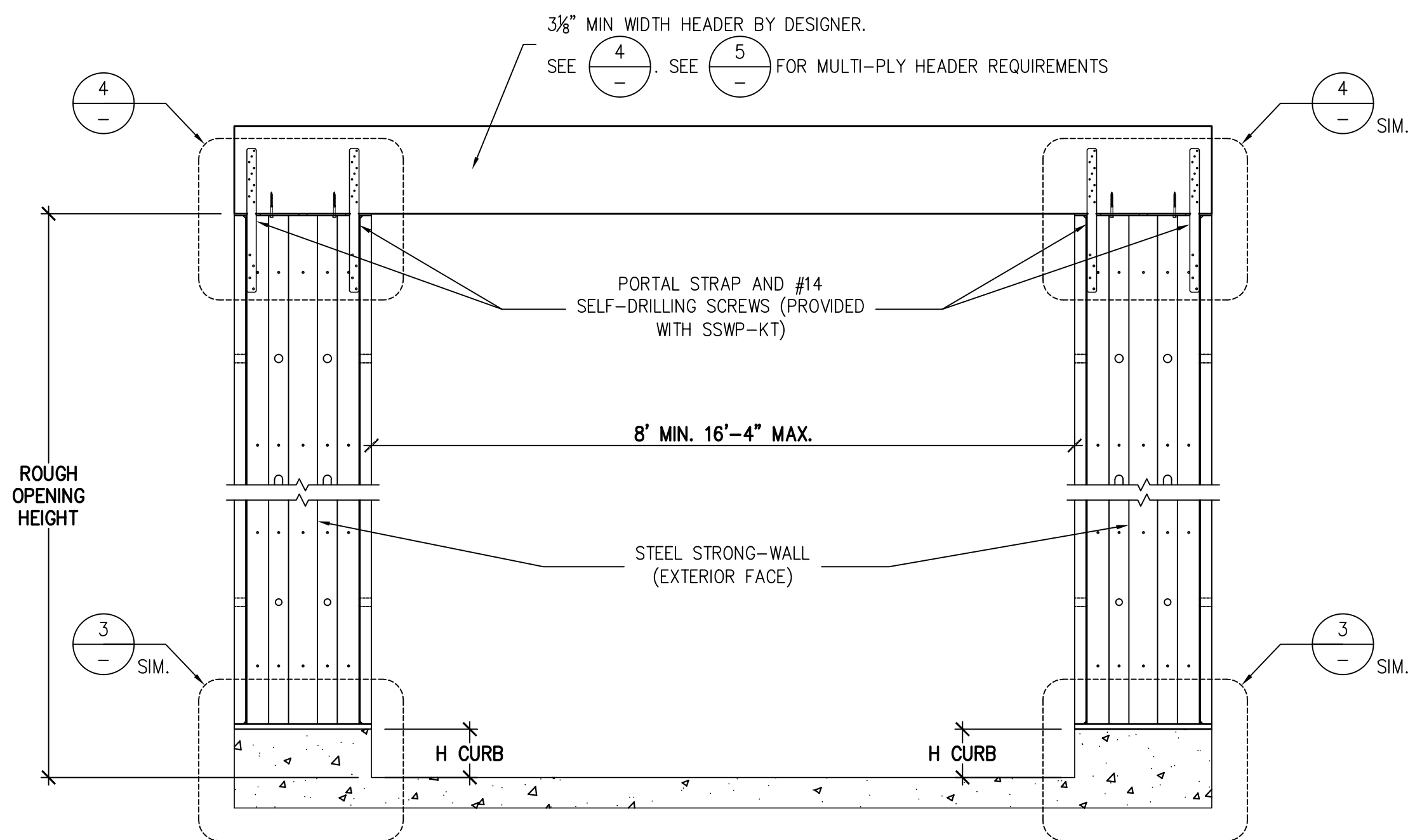
STEEL STRONG-WALL
PORTAL SYSTEM FRAMING DETAILS
ENGINEERED DESIGNS



NAME
DATE 6-18-2020
SCALE N.T.S.
CHECKED
SHEET SSW4
OF SHEETS
JOB NO.

1

5



GARAGE HEADER
ROUGH OPENING HEIGHT

MODEL NO.	H CURB	ROUGH OPENING HEIGHT
SSW15X7	5½"	7'-1½"
	6"	7'-2"

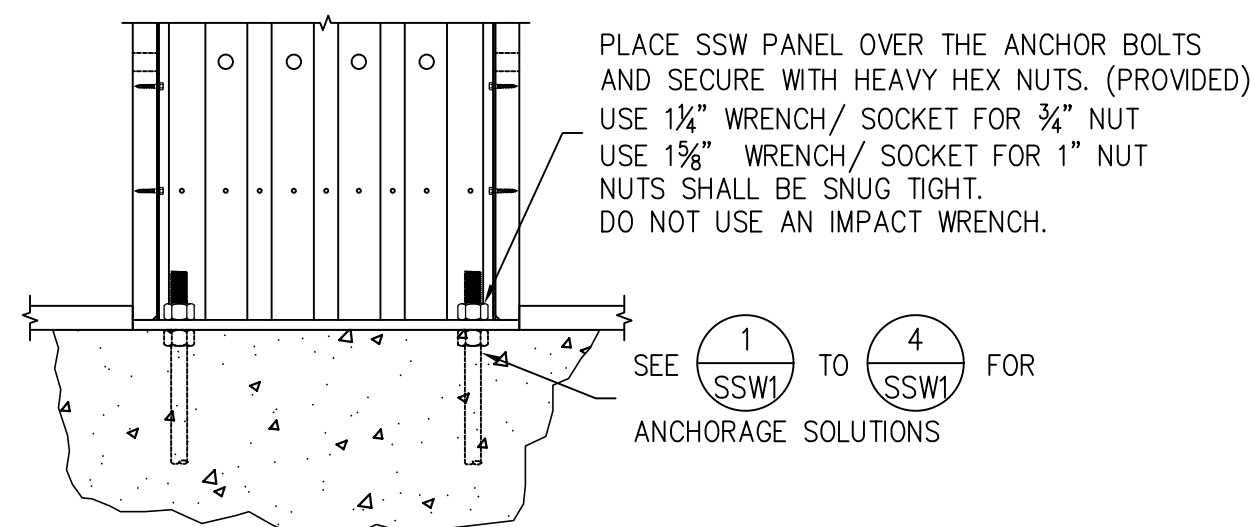
1. THE HEIGHT OF THE GARAGE CURB ABOVE THE GARAGE SLAB IS CRITICAL FOR THE ROUGH HEADER OPENING AT GARAGE RETURN WALLS.
2. SHIMS ARE NOT PROVIDED WITH STEEL STRONG-WALL.
3. FURRING DOWN GARAGE HEADER MAY BE NECESSARY FOR CORRECT ROUGH OPENING HEIGHT.

1. STEEL STRONG-WALL SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY, INC." "HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY.
2. USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
3. THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE SPECIFIER.
4. ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STEEL STRONG-WALL SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE SPECIFIER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
6. INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE SPECIFIER.
7. SIMPSON STRONG-TIE COMPANY, INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
8. ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.

STEEL STRONG-WALL DOUBLE WALL PORTAL

2

6

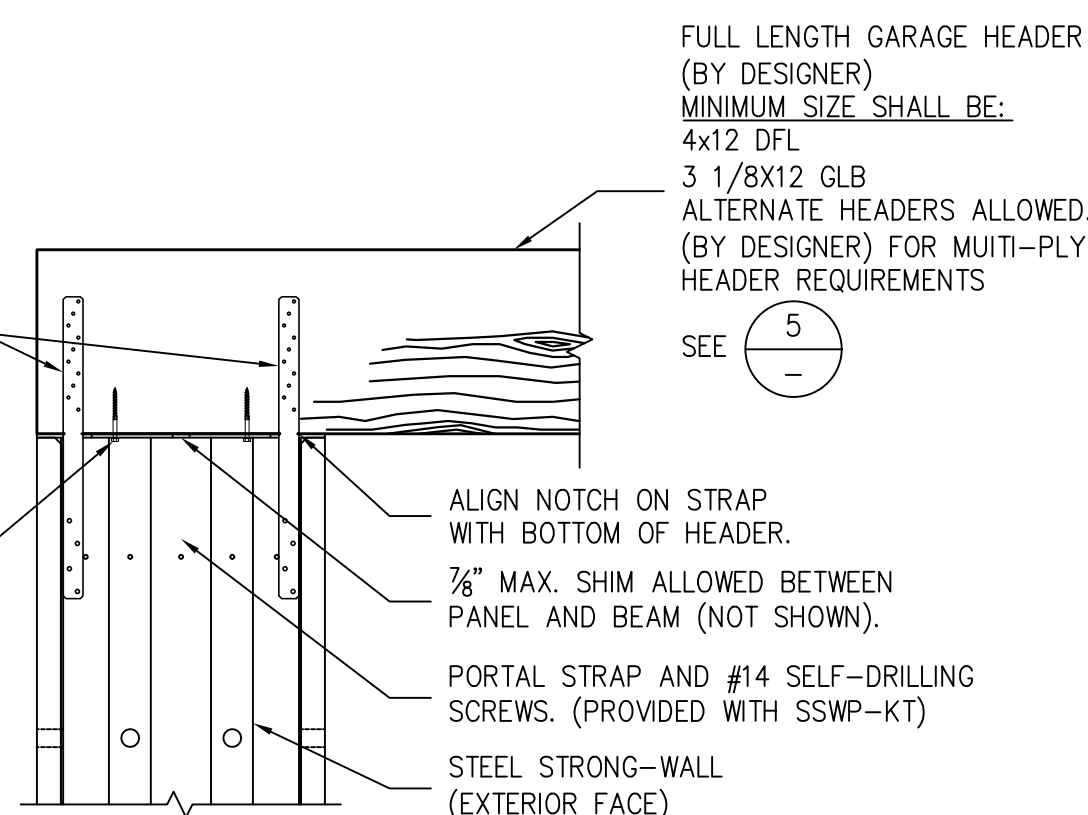


REGISTERED DESIGN PROFESSIONAL
IS PERMITTED TO MODIFY DETAILS
FOR SPECIFIC CONDITIONS.

NOTE :
LOAD PATH DESIGN AND
DETAILS ABOVE HEADER TO
BE PROVIDED BY DESIGNER.

FIELD NAIL PORTAL STRAP
TO HEADER WITH (10) 10dX2½"
MIN. NAILS.
FASTEN STRAP TO PANEL WITH
(4) #14 SELF-DRILLING SCREWS.
(SCREWS PROVIDED WITH
SSWP-KT)

NOTE :
STRAPS MUST BE INSTALLED ON
EXTERIOR FACE OF SSW PANEL.
POSITION HEADER FLUSH WITH
EXTERIOR FACE OF SSW PANEL.



BASE PLATE CONNECTION

3

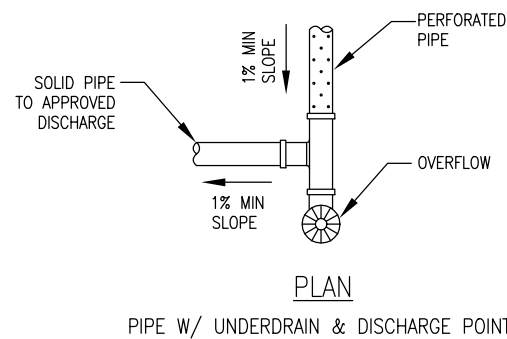
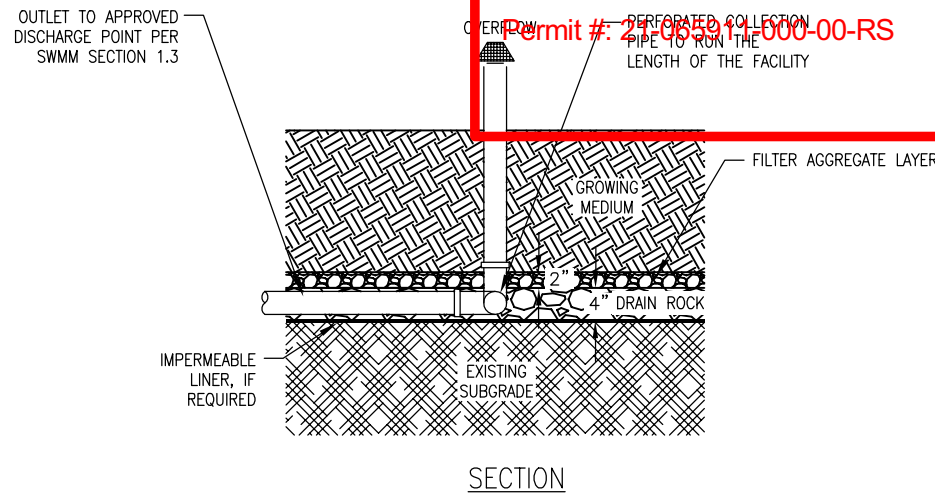
TOP OF WALL CONNECTION

4

City of Portland
Reviewed for
Code Compliance

Date: 11/12/21

Permit #: 44-00000000-00-RS



- DRAWING NOT TO SCALE -

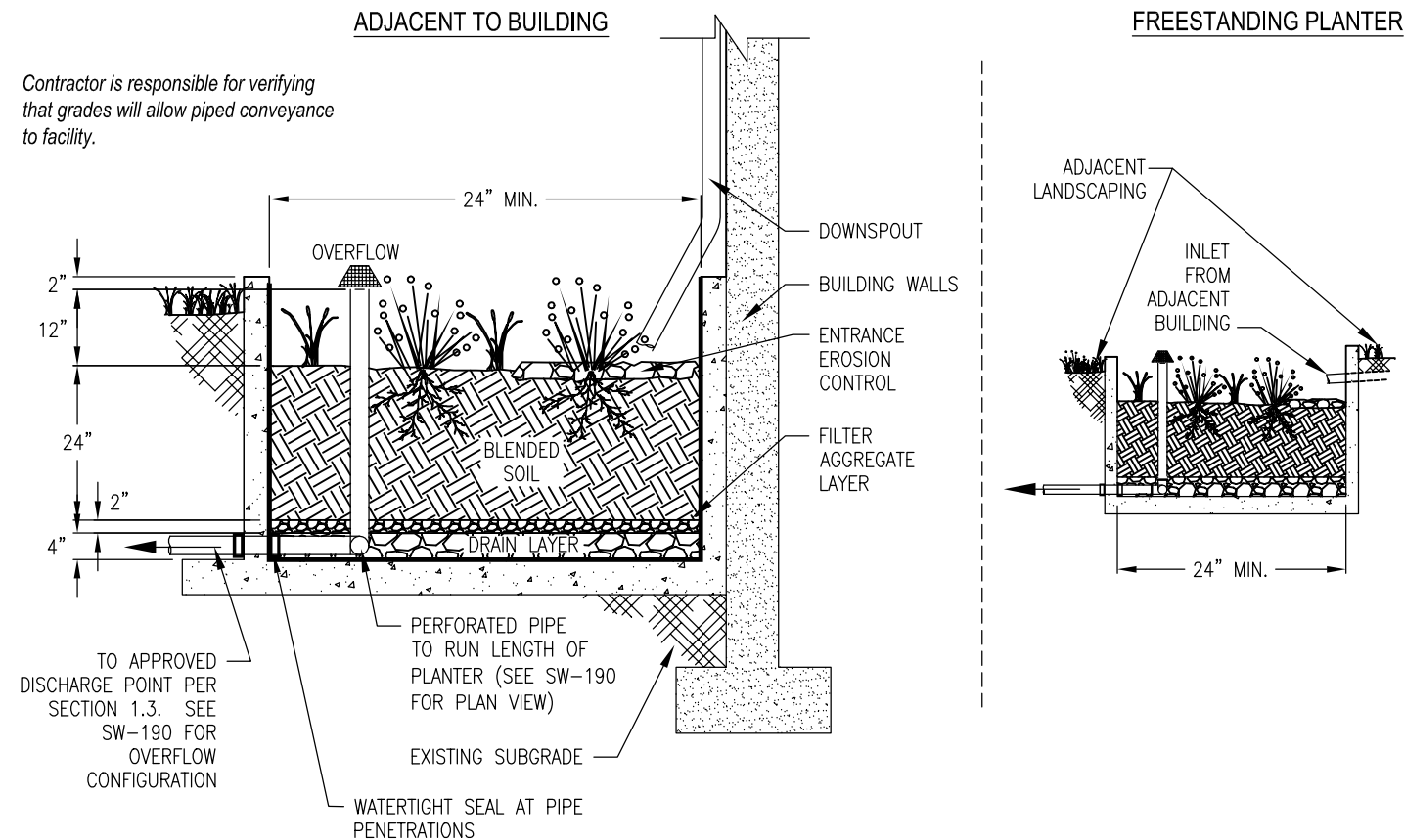


STORMWATER MANAGEMENT
TYPICAL DETAILS FOR
PRIVATE PROPERTY

UNDERDRAIN
AND OVERFLOW
CONFIGURATIONS

9-2-20

SIMPLIFIED
DESIGN APPROACH



1. Setbacks: No setback is required for lined planters. Walls can't exceed 30" height above grade if within 5' of property line including right-of-way.
2. Facility Slope (planted floor): Maximum of 0.5% in all directions.
3. Planter Structure: A single-pour monolithic concrete shell, without cold joints, is required to avoid the requirement for liner. Include walls on foundation plans. Check state structural standards for foundations.
4. Waterproofing: No additional waterproofing is needed if structure is monolithically poured.
5. Piping: Conform with Oregon Plumbing Specialty Code (OPSC) requirements.
6. Drain Layer: 4" of $\frac{3}{4}$ "-1 $\frac{1}{2}$ " washed drain rock. Filter aggregate layer: 2-3" of $\frac{1}{4}$ "-No.10 washed angular aggregate.
7. Overflow: Overflow elevation must allow for 2" of freeboard, minimum. Protect from debris and sediment with strainer or grate.
8. Blended Soil: Use BES' standard soil blend for stormwater facilities (SWMM Section 6.3) unless otherwise approved. Install minimum of 24" of blended soil.
9. Vegetation: Refer to plant list in SWMM Section 3.5. Minimum container size is 1 gal. Number of plantings per 100sf of facility area: 80 herbaceous plants OR 72 herbaceous plants and 4 small shrubs.
10. Entrance Erosion Control: Install river rock, flagstone, or similar to dissipate the energy of incoming water at entrances and ends of downspout extensions.
11. Inspections: Call BDS IVR Inspection Line, (503) 823-7000, request 487. 3 inspections required.

CONSTRUCTION REQUIREMENTS
Do not allow temporary storage of construction waste or materials in the facilities. Do not allow entry of runoff or sediment during construction.

- DRAWINGS NOT TO SCALE -



STORMWATER MANAGEMENT
TYPICAL DETAILS FOR
PRIVATE PROPERTY

LINED PLANTER

9-2-20

SIMPLIFIED
DESIGN APPROACH

	9-10-2021 BES	CHANGED TO LINED PLANTER SW-141.
--	------------------	-------------------------------------

PROJECT LEGAL DESCRIPTION:
PROP. ID#: STATE ID: 1S2E19CC 1802
LOT 19, STANFORD HTS, BLOCK13
SE 1/4 NE 1/4 SEC. 8, T.1S R.2E.
W.M. MULTNOMAH COUNTY, OREGON

PROJECT ADDRESS:
4445 SE UMATILLA ST, (LOT E. OF 4407)
PORTLAND, OREGON 97206

PROPOSED PROJECT FOR:
SENTAUR INC.

SITE PLAN DETAILS

SCALE: 1" = 10.0' (ON 18"X24" PAPER SIZE)
DATE: 9-10-21
JOB# 21-54



MD
MASSIE HOME DESIGN

500 NW 20TH ST STE 203 (o) PHONE: 503-663-1100
GRESHAM, OREGON 97030 EMAIL: brian@massiehd.com

SUBMITTED 9/20/2021