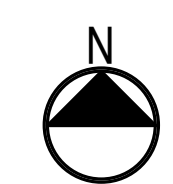


**LEGEND:**

- CURRENT BUILDING PAD AREA
- PROPOSED UPPER LOT BUILDING PAD AREA
- PROPOSED MAIN BUILDING PAD AREA
- PROPOSED LOT AREAS AFTER SUBDIVISION:
- MAIN LOT = 19,192 SF
- UPPER LOT = 15,697 SF

**NOTE:**  
 DIAGRAM IS FOR FUTURE SUBDIVISION TO INDICATE COMPLIANCE WITH MICC 19.02.0200(X1)



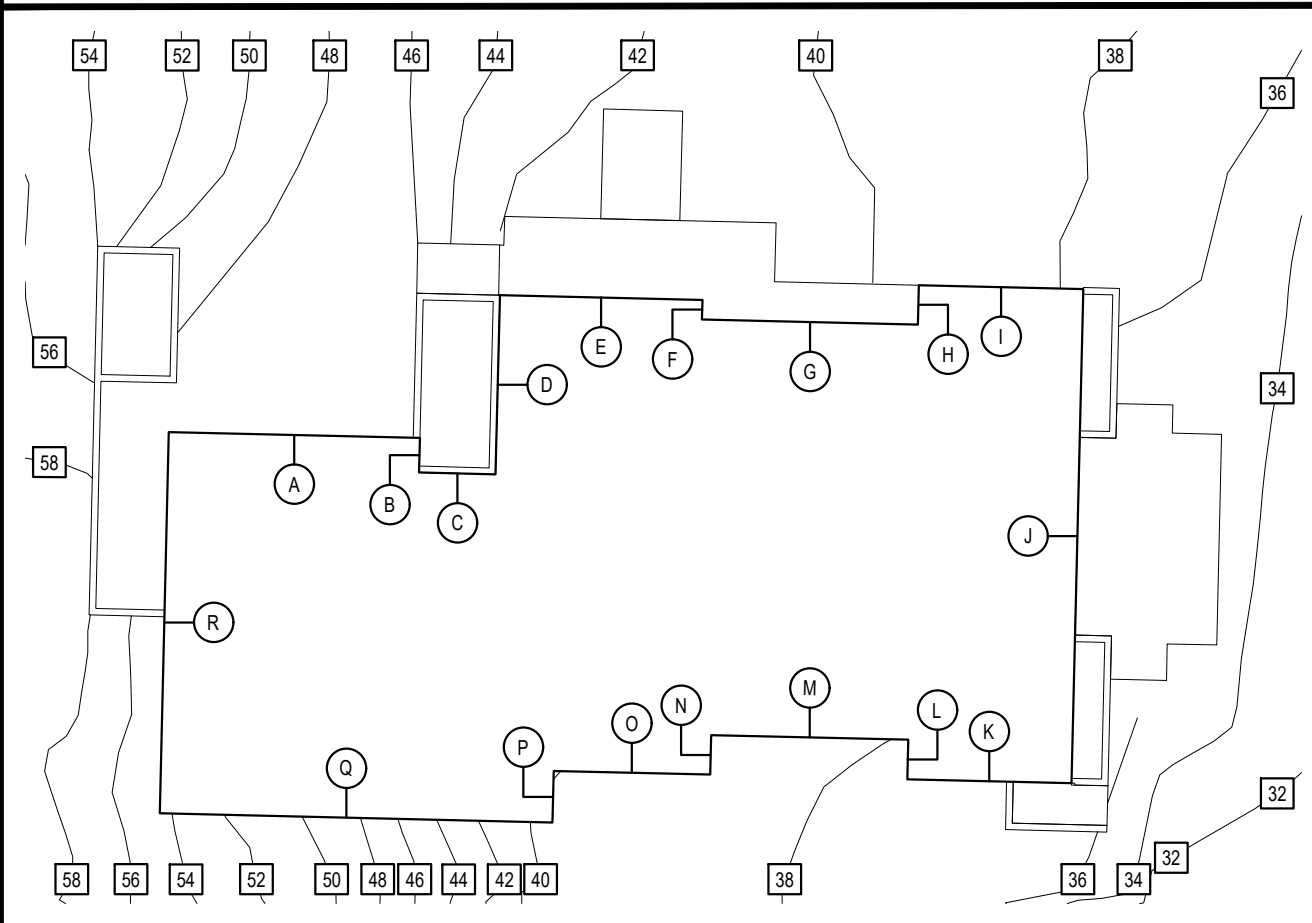
**SUBDIVISION/BUILDING PAD DIAGRAM**

SCALE: 1" = 20'-0"

AREA 2,112.3 SF  
 MAX IMPERVIOUS  
 30% (633.7 SF)  
 STRUCTURES  
 ALLOWED

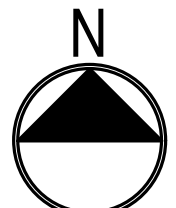
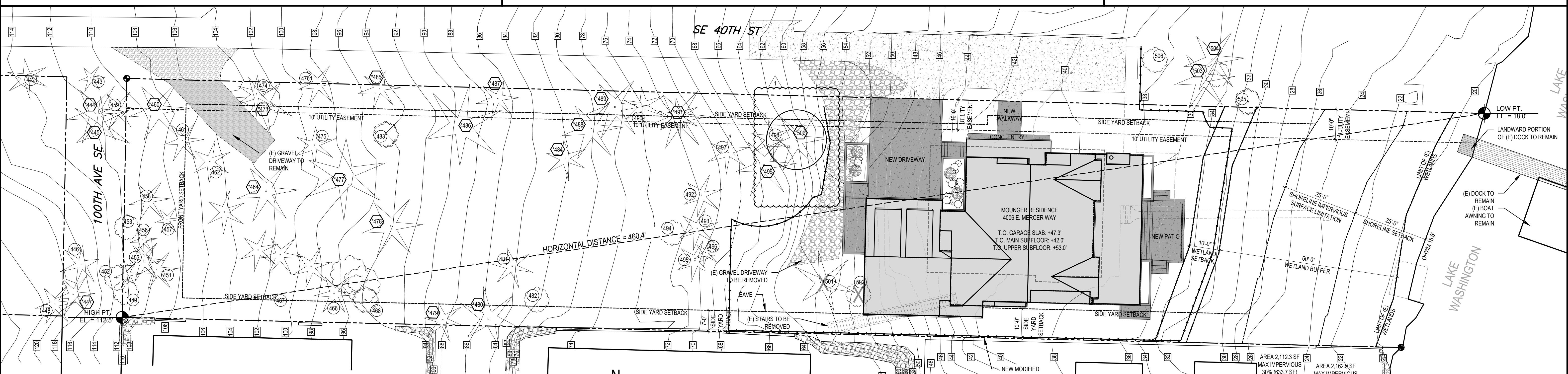
AREA 2,162.9 SF  
 MAX IMPERVIOUS  
 10% (216 SF)  
 NO STRUCTURES  
 ALLOWED

**A.B.E.**



MIDPOINT ELEVATION	SEGMENT LENGTH
A: 47.1 FT	25.4 FT
B: 44.1 FT	3.5 FT
C: 43.2 FT	7.8 FT
D: 42.9 FT	18.1 FT
E: 41.9 FT	20.5 FT
F: 40.3 FT	2.0 FT
G: 39.8 FT	21.9 FT
H: 38.9 FT	4.0 FT
I: 38.3 FT	16.3 FT
J: 36.9 FT	50.0 FT
K: 36.9 FT	16.3 FT
L: 37.7 FT	4.0 FT
M: 38.6 FT	19.9 FT
N: 39.1 FT	4.0 FT
O: 39.5 FT	15.8 FT
P: 39.9 FT	5.2 FT
Q: 48.5 FT	39.9 FT
R: 54.2 FT	38.6 FT

MID POINT ELEVATION X SEGMENT LENGTH = 13,436.0 FT<sup>2</sup>  
 TOTAL WALL SEGMENT LENGTH: 313.2 FT = 42.9 FT



**SITE PLAN**

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

**NOTES:**  
 SITE PLAN IS COMPLIANT WITH MICC 19.13.01.01(6) AND IS USING THE BUFFER TABLE IN 19.07.190(C) BY MEETING ALL THE APPLICABLE MINIMIZING MEASURES LISTED IN MICC 19.07.190(D)(3).  
 COMPLIANCE WITH 19.13.01.01(6) AND MICC 19.07.190(D)(3) HAS BEEN REVIEWED BY ESA. REFER TO MEMO IN SUPPLEMENTAL DOCUMENTS DATED JUNE 24, 2021.

AREA 2,112.3 SF  
 MAX IMPERVIOUS  
 30% (633.7 SF)  
 STRUCTURES  
 ALLOWED

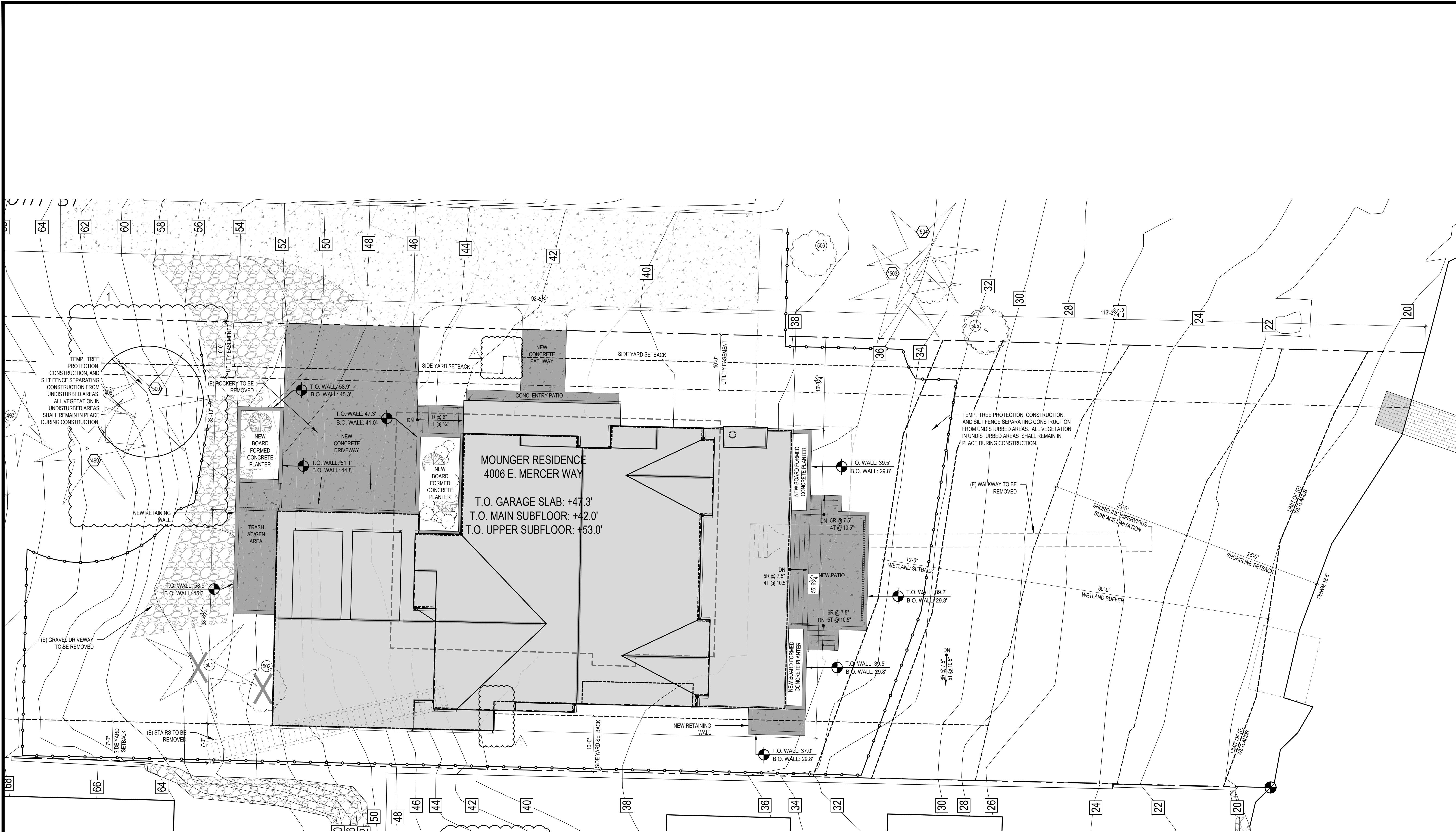
AREA 2,162.9 SF  
 MAX IMPERVIOUS  
 10% (216 SF)  
 NO STRUCTURES  
 ALLOWED

SCALE: IF SHEET IS LESS THAN 24" x 36" IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY

PERMIT SET 5/2/2022

REVISIONS:

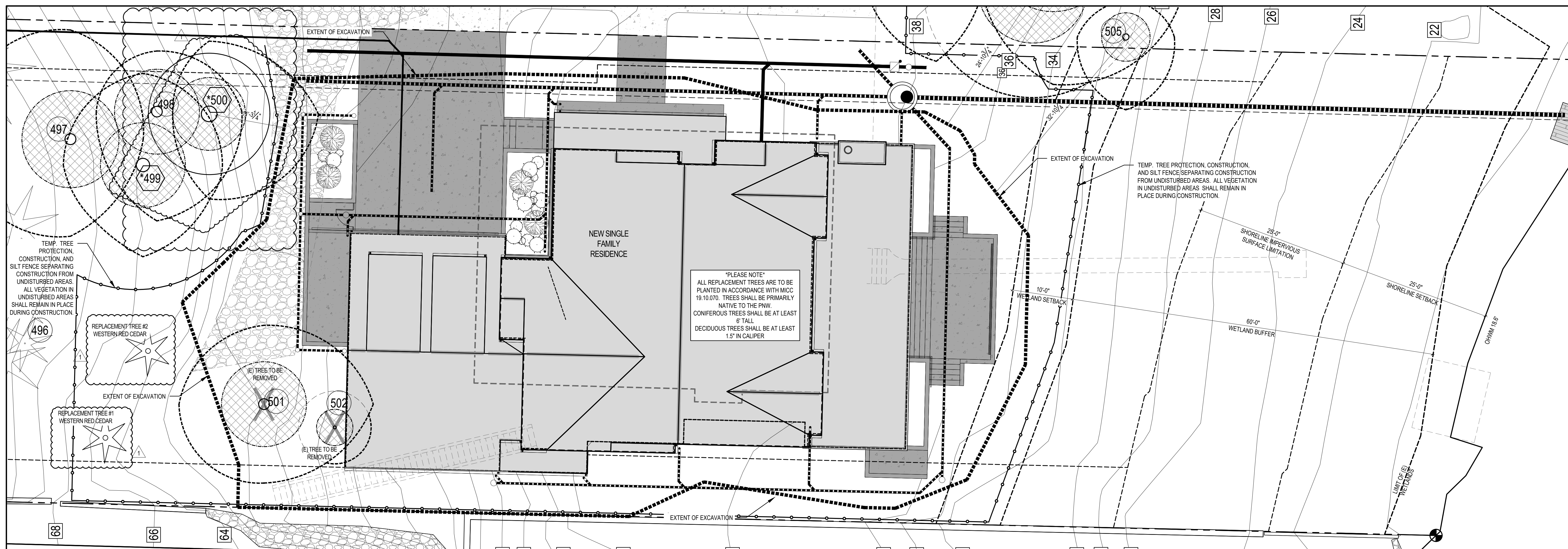

PLOT DATE: 8/8/2022  
 DRAWN BY: JM  
 CHECKED BY: BJS



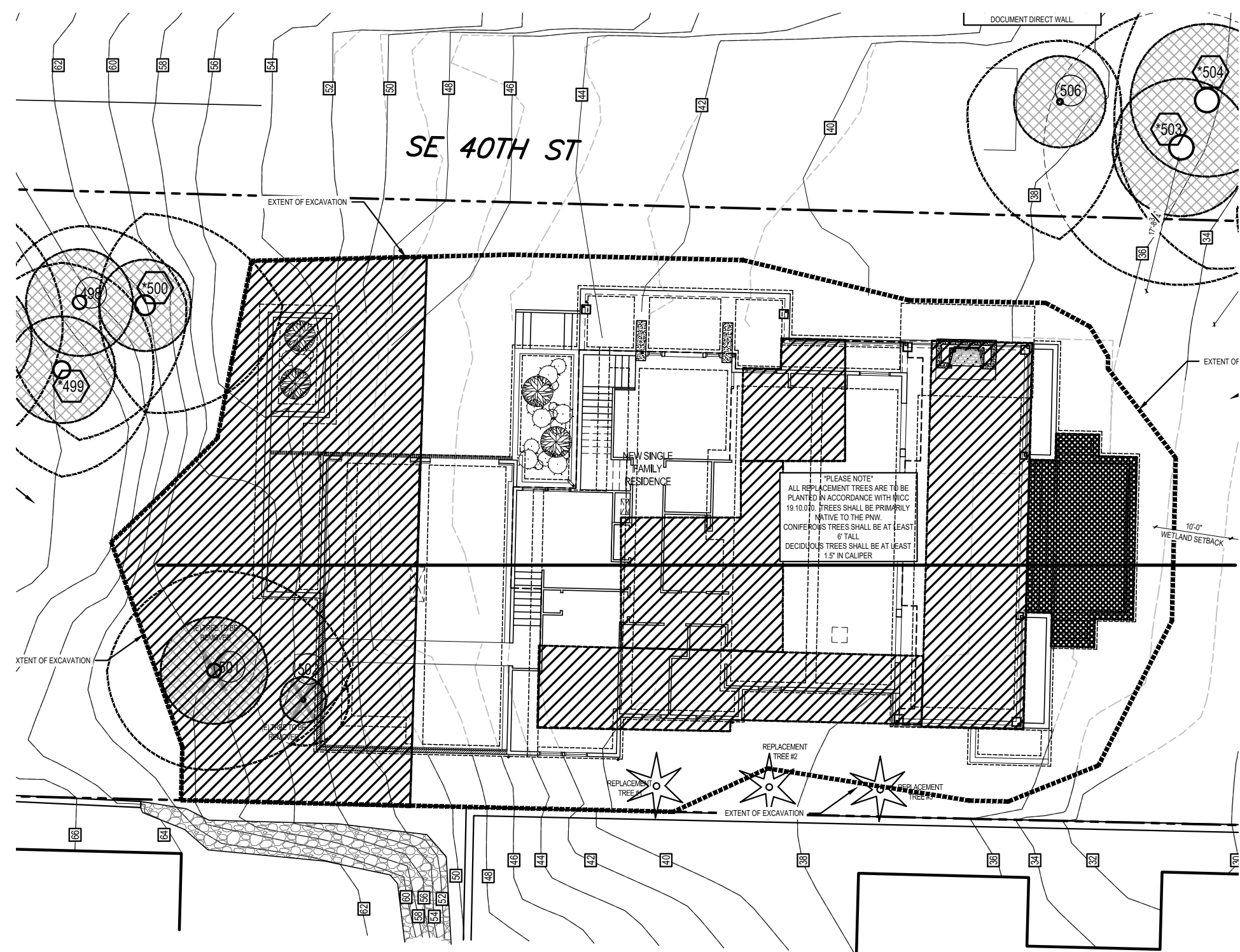
NOTE:  
ALL EAVES SHALL NOT ENCROACH  
INTO REQUIRED SIDE YARD SETBACK

**SITE PLAN**  
SCALE: 1/8" 1'-0"

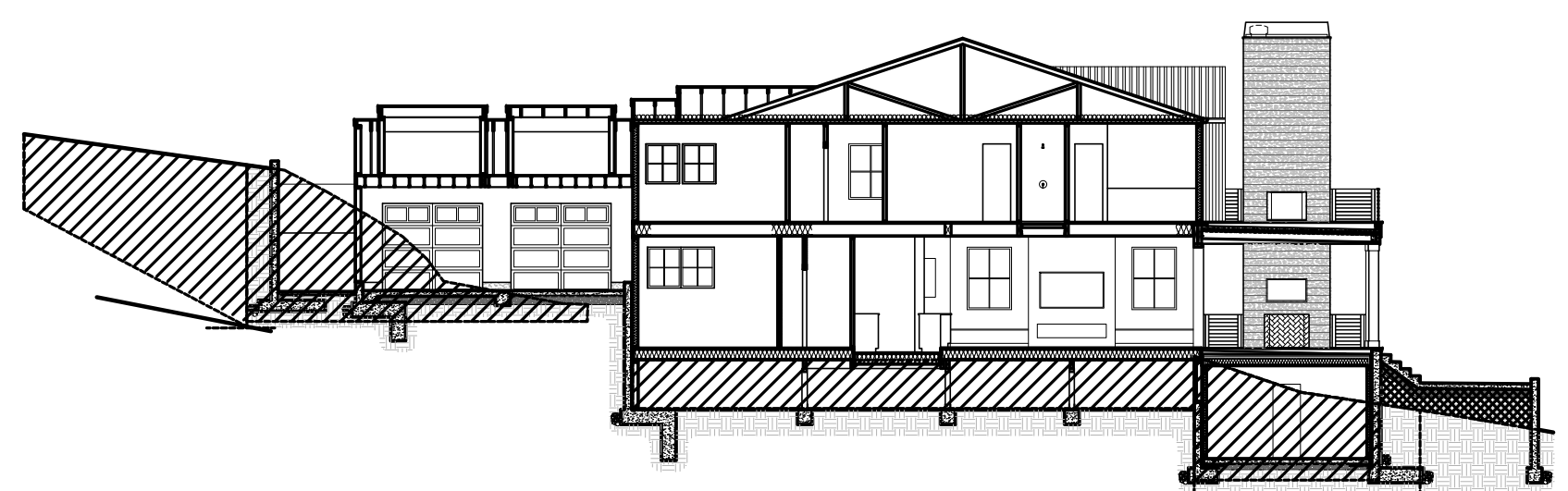
REVISIONS:	
▲	CORRECTION 1 2022.7-18
▲	
▲	
▲	
▲	
▲	
PLOT DATE:	8/8/2022
DRAWN BY:	JM
CHECKED BY:	BJS
SHEET	



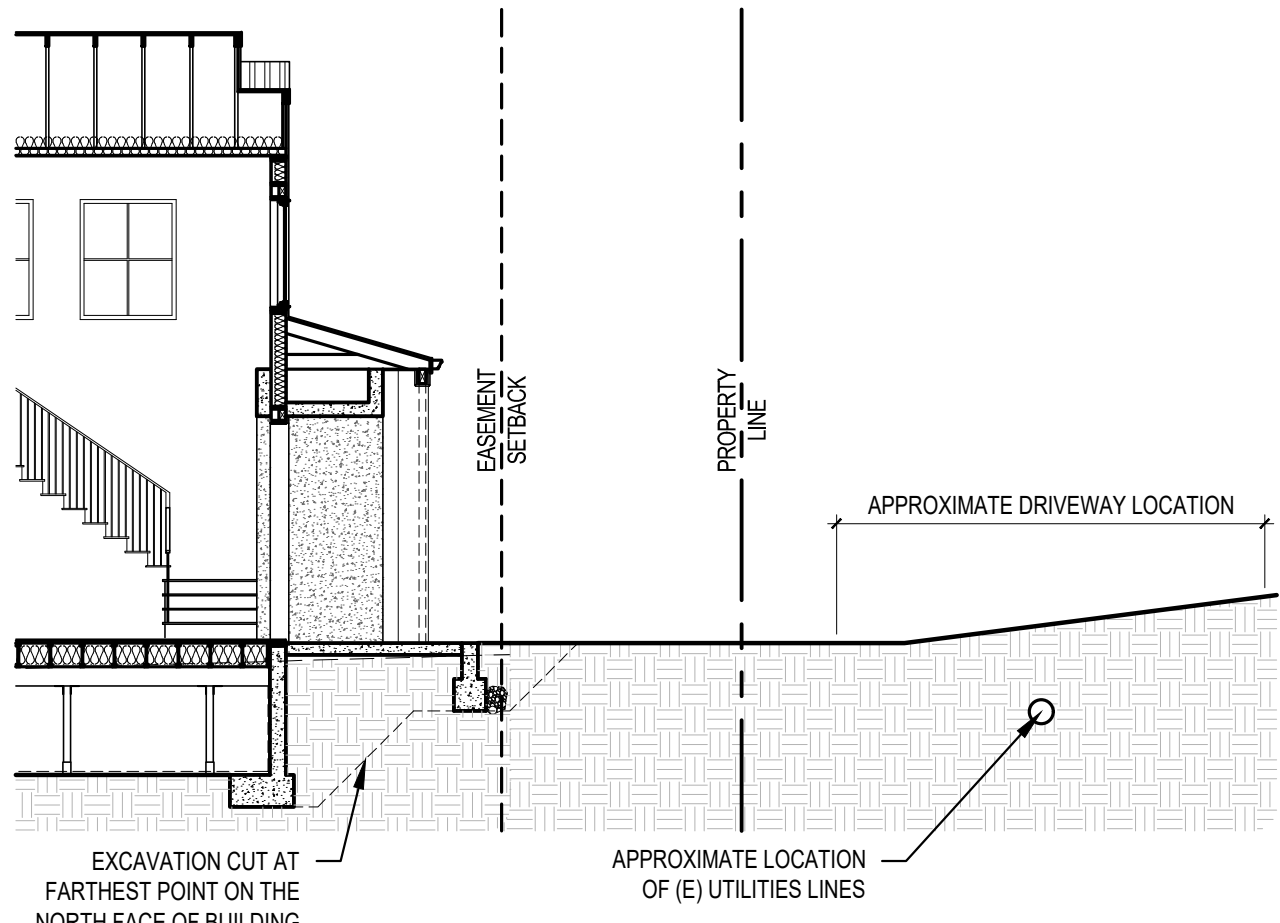
**EXCAVATION PLAN**  
SCALE: 1/8" 1'-0"



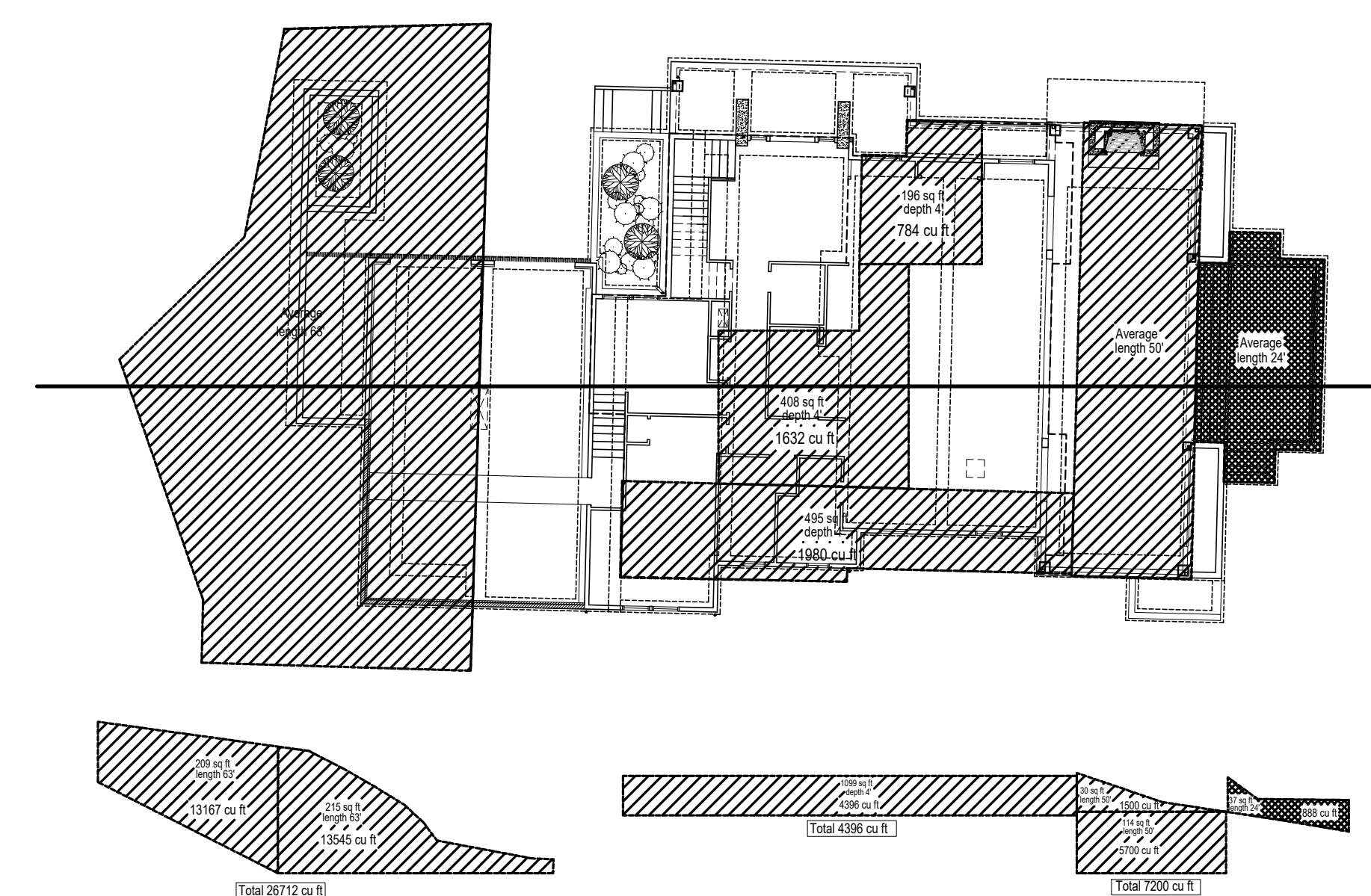
**EXCAVATION CUT AND FILL PLAN**  
SCALE: 1/16" 1'-0"



**EXCAVATION CUT AND FILL SECTION**  
SCALE: 1/16" 1'-0"



**EXCAVATION CUT INTO EASEMENT**  
SCALE: 1/8" 1'-0"

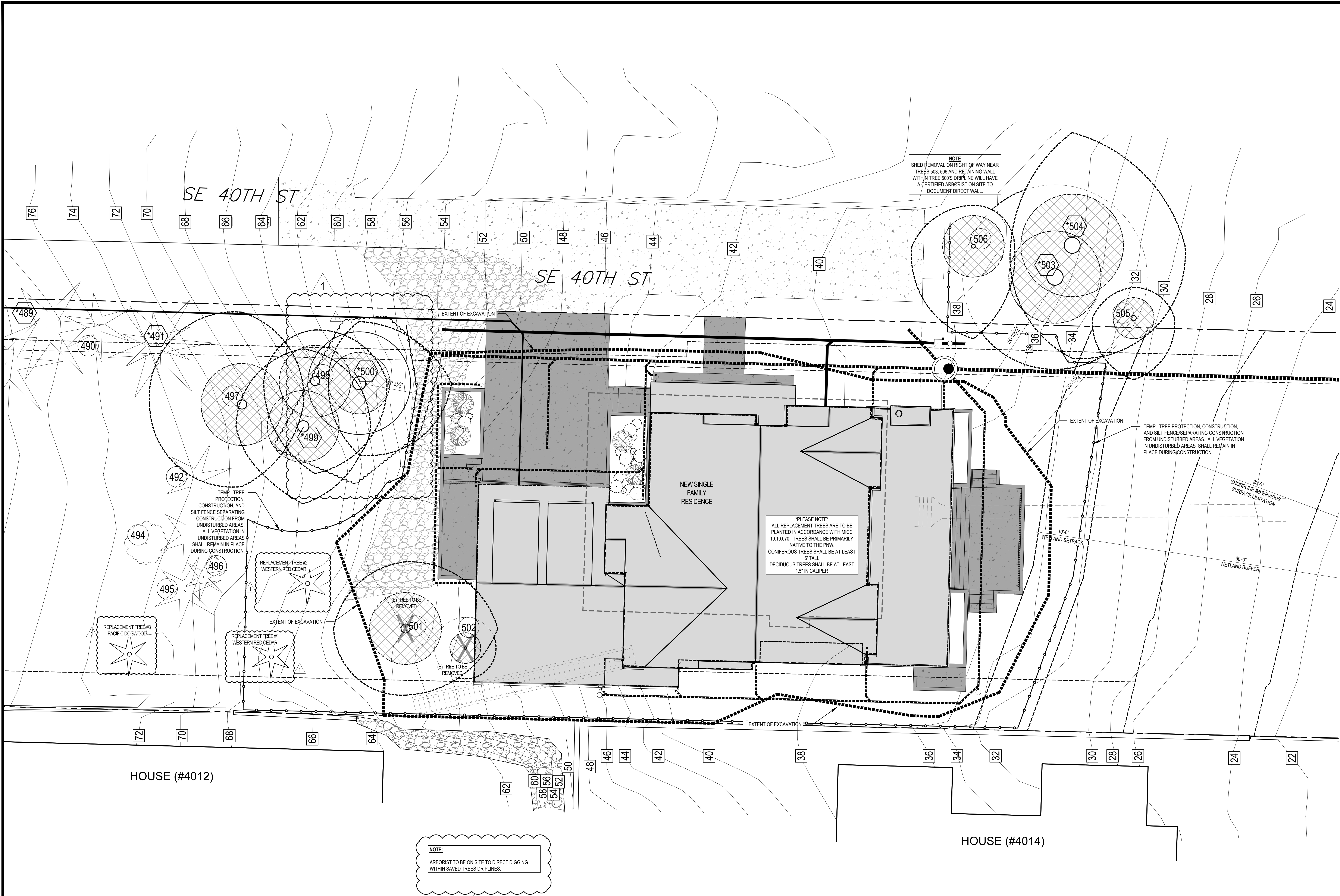


CUT - 26712 + 4396 + 7200 = 38308 cu. ft. = 1419 cu. yd.
  FILL - 888 cu. ft. = 33 cu. yd.

**EXCAVATION CUT AND FILL CALCULATIONS**

SCALE: 1/16" 1'-0"  
Cut- 1419 cu.yd    Fill- 33 cu.yd.

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET    8/8/2022



NOTE  
 SHED REMOVAL ON RIGHT OF WAY NEAR  
 TREES 503, 506 AND RETAINING WALL  
 WITHIN TREE 500'S DRIFLINE WILL HAVE  
 A CERTIFIED ARBORIST ON SITE TO  
 DOCUMENT DIRECT WALL.

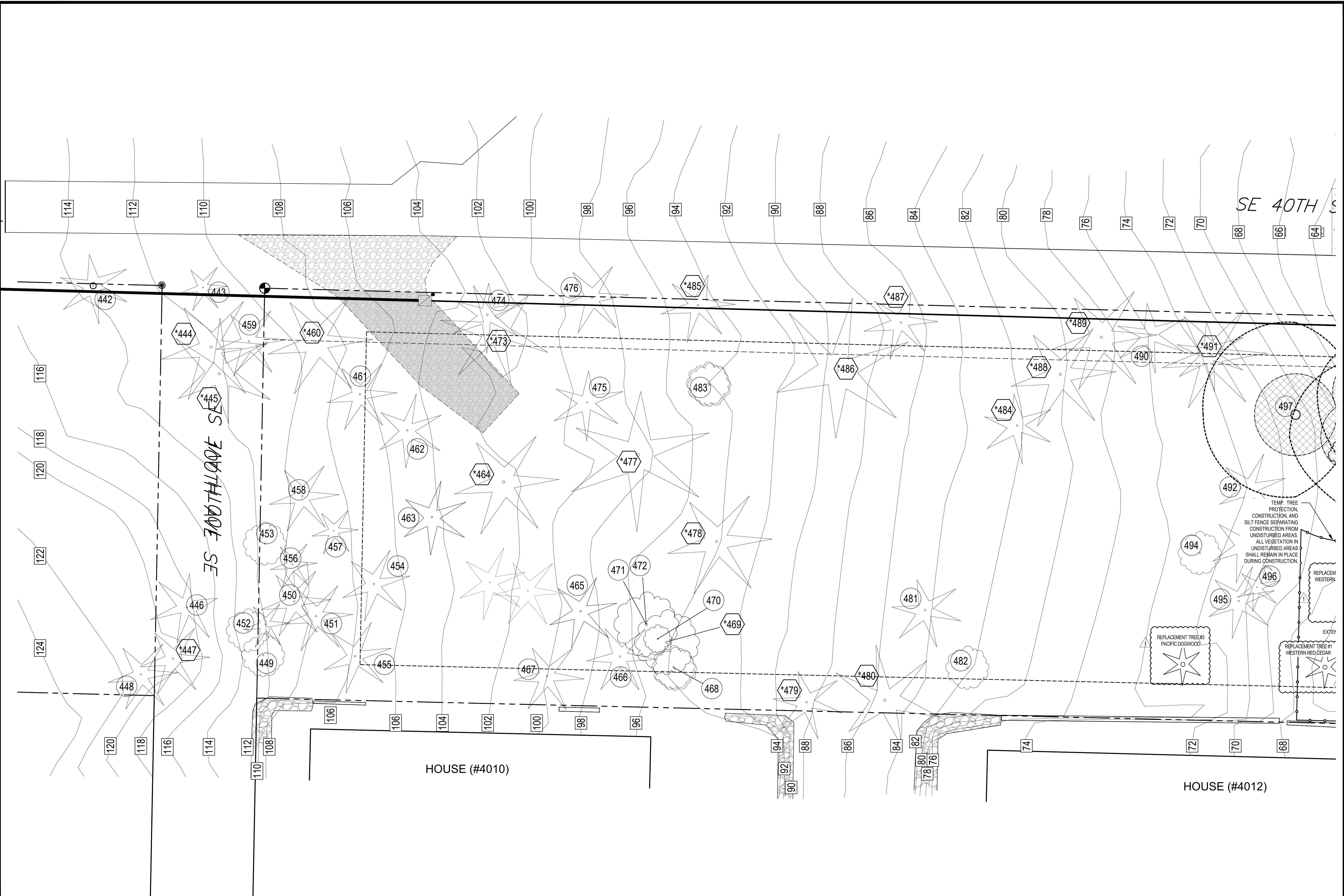
\*PLEASE NOTE\*  
 ALL REPLACEMENT TREES ARE TO BE  
 PLANTED IN ACCORDANCE WITH MICC  
 19.10.070. TREES SHALL BE PRIMARILY  
 NATIVE TO THE PNW.  
 CONIFEROUS TREES SHALL BE AT LEAST  
 6' TALL.  
 DECIDUOUS TREES SHALL BE AT LEAST  
 1.5" IN CALIPER

NOTE:  
 ARBORIST TO BE ON SITE TO DIRECT DIGGING  
 WITHIN SAVED TREES DRIFLINES.

**1 TREE PLAN**  
 SCALE: 1/8" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS  
 A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 CORRECTION SET 8/8/2022

REVISIONS:	
▲	CORRECTION 1 2022-7-18
▲	
▲	
▲	
▲	
▲	
PLOT DATE:	8/8/2022
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	



SE 40TH ST  
 SE 700TH AVE SE

SE 40TH ST

HOUSE (#4010)

HOUSE (#4012)

N  
 2 TREE PLAN  
 SCALE: 1/8" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36" IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 CORRECTION SET 8/8/2022

STURMAN ARCHITECTS  
 9-103rd Ave NE Suite 203 Bellevue, WA 98004  
 TEL: 425-451-7003

REGISTERED ARCHITECT  
 BRADLEY J. STURMAN  
 STATE OF WASHINGTON

4006 RESIDENCE  
 4006 E MERCER WAY  
 MERCER ISLAND, WA 98040

TREE PLAN (CONT.)

REVISIONS:  
 CORRECTION 1 2022.7-18

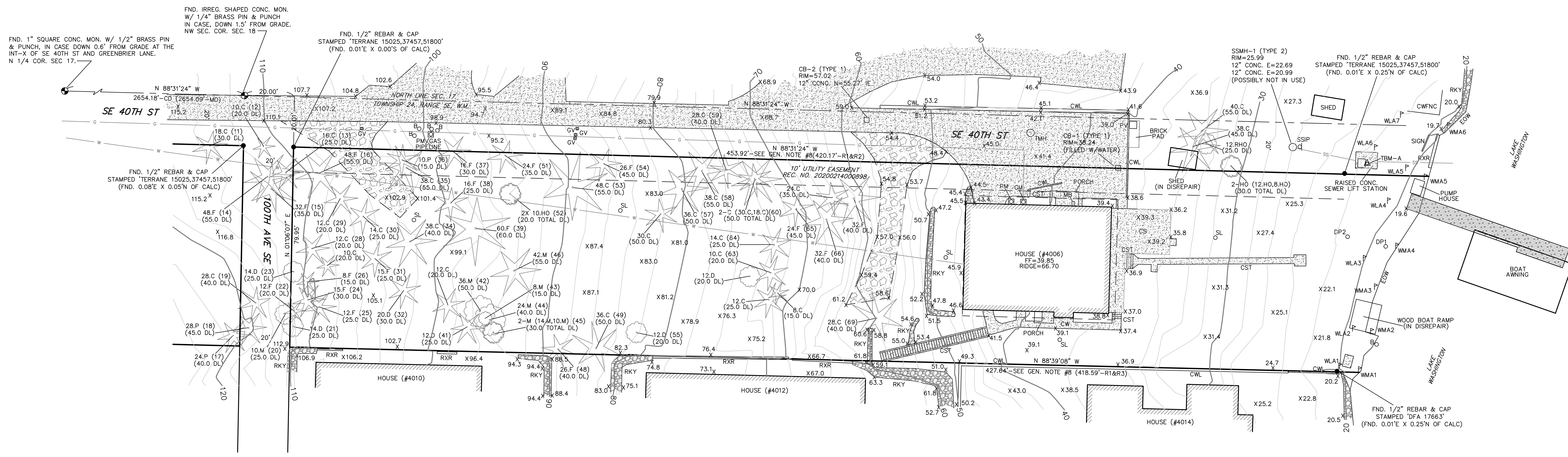
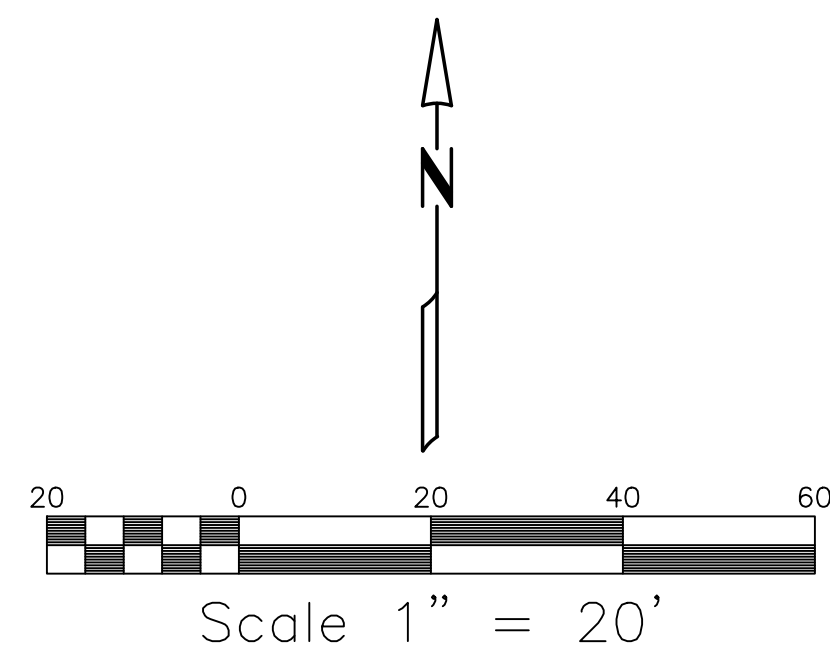
PLOT DATE: 8/8/2022  
 DRAWN BY: JM  
 CHECKED BY: BJS

SHEET  
**A1.4**

TEMP. TREE PROTECTION, CONSTRUCTION, AND SILT FENCE SEPARATING CONSTRUCTION FROM UNDISTURBED AREAS. ALL VEGETATION IN UNDISTURBED AREAS SHALL REMAIN IN PLACE DURING CONSTRUCTION.

REPLACEMENT TREE #3  
 PACIFIC DOGWOOD

REPLACEMENT TREE #1  
 WESTERN RED CEDAR



**MERIDIAN**

ASSUMED- BASIS OF BEARING N. LINE OF SEC. 17, T.24N, R.5E, W.M. AS SHOWN HEREON

**LEGEND:**

- FOUND MONUMENT AS DESCRIBED
- FOUND EXISTING PROP. COR. AS SHOWN
- ▲ TEMPORARY BENCHMARK AS SHOWN ON MAP
- B BOLLARD
- C CEDAR TREE
- CB CATCH BASIN
- CD CALCULATED DIMENSION
- CS CONCRETE SLAB
- CST CONCRETE STAIRS
- CW CONCRETE WALK
- CWL CONCRETE WALL
- CWFNC CHICKEN WIRE FENCE
- D DECIDUOUS TREE
- DL DRIP LINE
- DP DATA POINT
- EW EDGE OF WATER
- F FIR TREE
- FF FINISH FLOOR ELEVATION
- GM GAS METER
- GV GAS VALVE
- HO HOLLY TREE
- IE INVERT ELEVATION
- M MAPLE TREE
- MB MALBON
- MD MEASURED DIMENSION
- P PINE TREE
- PM POWER METER
- PV POWER VAULT
- RXR RAILROAD TIE WALL
- RHO RHODODENDRON TREE
- RKY ROCKERY
- SL SOIL LOG
- TMH TELEPHONE MANHOLE
- WM WATER METER
- WMA WATER LOCATION FLAG
- WLA WETLAND FLAG

**LEGAL DESCRIPTION**

PER STATUTORY WARRANTY DEED REC. NO. 20200423001396  
 LOT 1, LAKEHOLM ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 12 OF PLATS, PAGE 52, RECORDS OF KING COUNTY, WASHINGTON;  
 TOGETHER WITH SECOND CLASS SHORELANDS ADJACENT OR ABUTTING THEREON.  
 SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

**CONTOUR INTERVAL = 2'**

**EQUIPMENT & PROCEDURES**

FIELD SURVEY CONDUCTED USING A COMBINATION OF GPS USING A REFERENCE NETWORK AND A 5" ELECTRONIC TOTAL STATION WAS USED FOR THIS FIELD TRAVERSE SURVEY. SURVEY PROCEDURES MEET OR EXCEED STATE STANDARDS AS SPECIFIED BY W.A.C. 332-130 WITH REGARD TO LINEAR AND ANGULAR CLOSURES. ALL MEASURING INSTRUMENTS FOR THIS SURVEY HAVE BEEN MAINTAINED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND HAVE BEEN COMPARED WITH A NATIONAL GEODETIC SURVEY CALIBRATED BASELINE WITHIN THE LAST 12 MONTHS.

**REFERENCES**

1. ALTA/NSPS LAND TITLE SURVEY BY TERRANE; PROVIDED BY CLIENT (R1)
2. RECORD OF SURVEY; VOL. 54 OF SURVEYS, PAGE 202; REC. NO. 198704019003 (R2)
3. RECORD OF SURVEY; VOL. 164 OF SURVEYS, PAGE 03; REC. NO. 20031029900002 (R3)

**GENERAL NOTES**

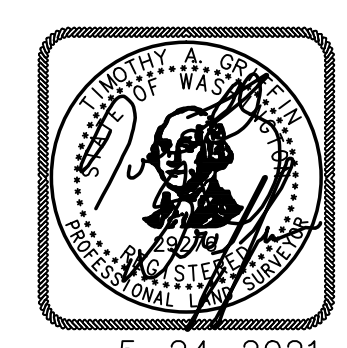
1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.
2. UNDERGROUND UTILITIES WERE LOCATED BASED ON THE SURFACE EVIDENCE OF UTILITIES (I.E. PAINT MARKS, SAW CUTS IN PAVEMENT, COVERS, LIDS ETC.) THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. TREE SIZES WERE LOCATED & SPECIES DETERMINED TO THE BEST OF OUR ABILITY. HOWEVER, TYEE SURVEYORS DOES NOT WARRANT THE ACCURACY OF SIZE & SPECIES SHOWN HEREON. ANY TREES CONSIDERED TO BE CRITICAL SHOULD BE VERIFIED BY A TRAINED ARBORIST. TREES MEASURED IN INCHES AT BREAST HEIGHT, DRIP LINES SHOWN ARE DIAMETER, IN FEET. (XX) IS NUMBER OF TREE TAG, IF AVAILABLE.
4. NO PROPERTY CORNERS WERE SET IN CONJUNCTION WITH THIS SURVEY.
5. MAP SYMBOLS ARE NOT TO SCALE, AND ARE FOR GRAPHIC PURPOSES ONLY.
6. THIS SURVEY WAS CREATED USING A COMBINATION OF INTERNAL RECORDS, KING COUNTY RECORDS OF SURVEY NO'S. 20031029900002 & 198704019003 AND THE PLAT OF LAKEHOLM ADD.
7. THE INTENT OF THIS SURVEY IS TO AID WITH DESIGN/PLANNING FOR THIS SITE.
8. THE NORTH AND SOUTH PROPERTY LINES WERE CREATED FROM AND MATCH R1, R2, & R3 IN BEARING RELATIONSHIP BUT HAVE BEEN EXTENDED TO THE EDGE OF EXISTING LOCATIONS DONE BY TYEE SURVEYORS ON 5-20-2020.

**BENCHMARK & DATUM INFO**

VERTICAL DATUM: NAVD88  
 ORIGINAL BM: CITY OF MERCER ISLAND BM-MI 1074; FND. 1" SQUARE CONC. MON. W/ 1/2" BRASS SPIN & PUNCH, IN CASE DOWN 0.6' FROM GRADE AT THE INT-X OF SE 40TH ST AND GREENBRIER LANE. ELEV. = 305.67  
 TBM - A: CITY OF MERCER ISLAND BM-PS 12; FND. 2" BRASS DISC SURFACE MON. STAMPED 'CITY OF MERCER ISLAND GPS CONTROL' SET ON TOP OF A RAISED SEWER LIFT STATION VAULT NEAR THE NE CORNER OF THE SITE AS SHOWN ON MAP. ELEV. = 24.18

**HATCH LEGEND**

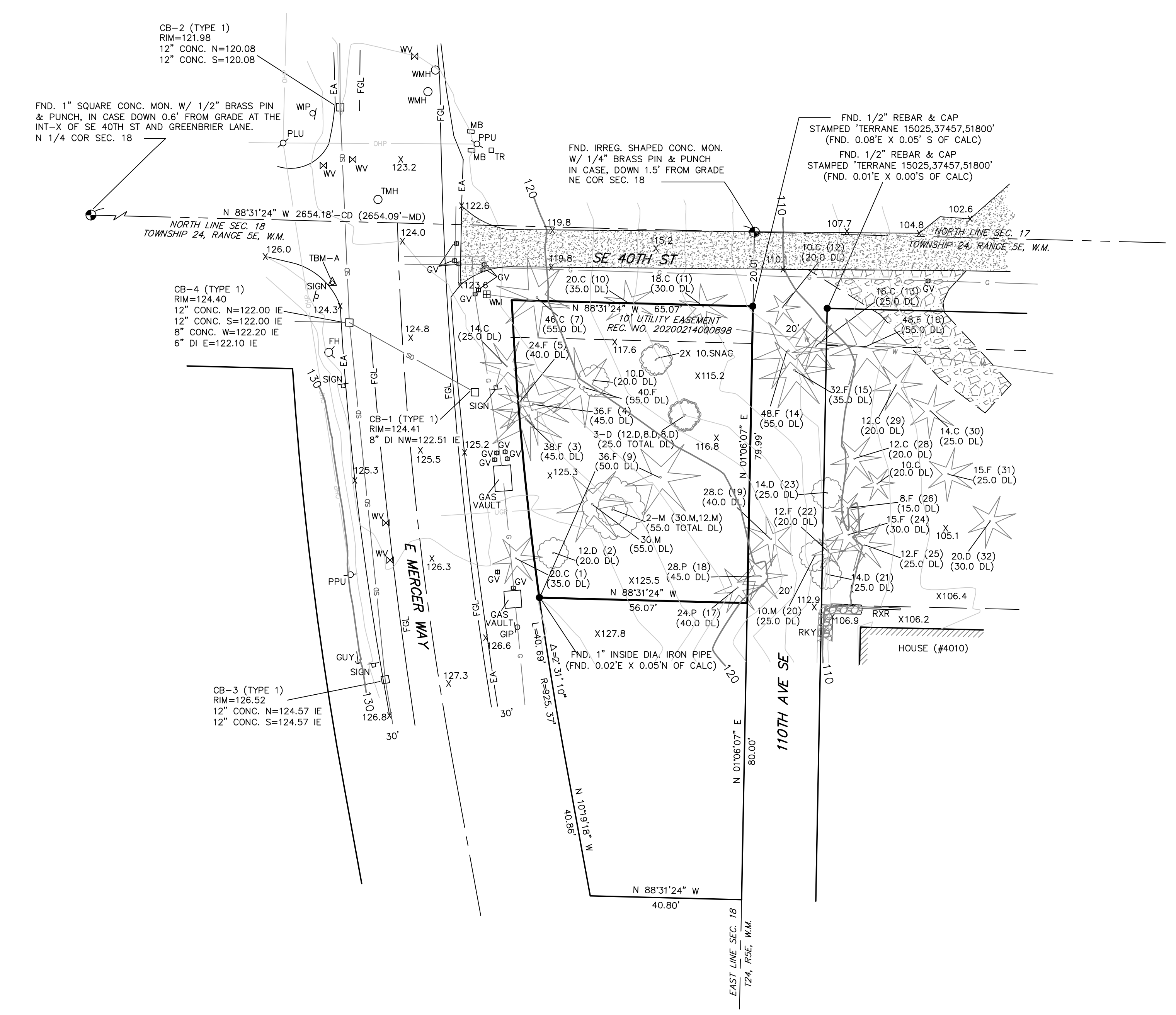
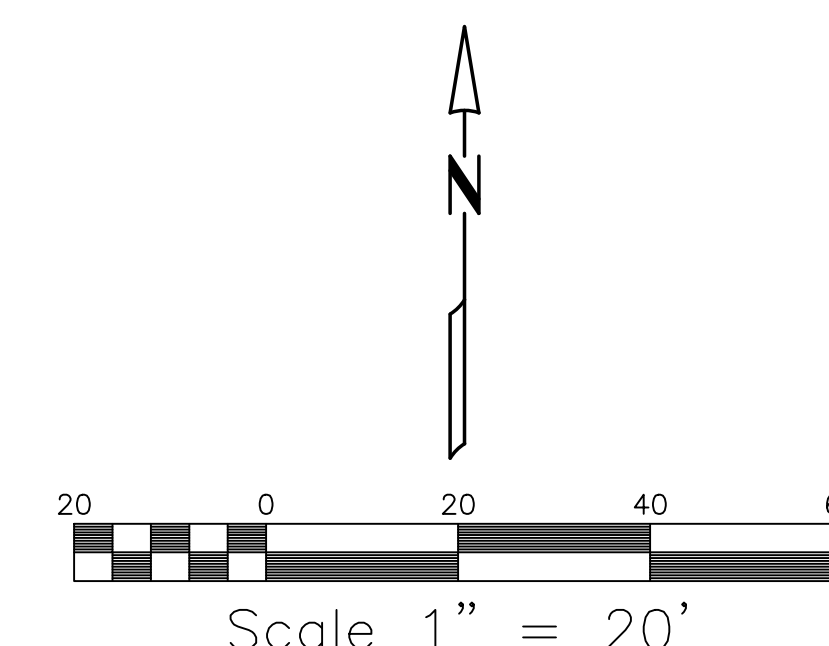
- DECK HATCH
- CONCRETE HATCH
- ROCKERY HATCH
- BUILDING HATCH
- GRAVEL HATCH
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- SANITARY SEWER LINE
- SPOT ELEVATION
- CONFIR TREE
- DECIDUOUS TREE



5-24-2021

SITE ADDRESS: 4006 E MERCER WAY  
 PARCEL NUMBER: 413190-0005  
 NW1/4, NW1/4, SEC. 17, T. 24 N., R. 5 E., W.M.  
 CITY OF MERCER ISLAND, WASHINGTON

TOPOGRAPHIC SURVEY for <b>MITCH MOUNGER</b>		
4006 E MERCER WAY      MERCER ISLAND, WASHINGTON 98040		
Tye Surveyors PROFESSIONAL LAND SURVEYORS 10007 GREENWOOD AV. N. SEATTLE, WA. 98133 206-525-3660		
DRAWN BY: AA	DATE: 5-24-2021	JOB NO.: 20057
CHKD BY: TG	SCALE: 1" = 20'	SHEET: 1 OF 2



**MERIDIAN**  
 ASSUMED— BASIS OF BEARING N. LINE OF SEC. 18, T.24N, R.5E, W.M. AS SHOWN HEREON

- LEGEND:**
- FOUND MONUMENT AS DESCRIBED
  - FOUND EXISTING PROP. COR. AS SHOWN
  - △ TEMPORARY BENCHMARK AS SHOWN ON MAP
- |     |                      |     |                               |
|-----|----------------------|-----|-------------------------------|
| C   | CEDAR TREE           | MD  | MEASURED DIMENSION            |
| CB  | CATCH BASIN          | P   | PINE TREE                     |
| CD  | CALCULATED DIMENSION | PM  | POWER METER                   |
| D   | DECIDUOUS TREE       | PPU | POWER POLE W/UNDERGD.         |
| DL  | DRIP LINE            | PPL | POWER POLE W/LIGHT            |
| EA  | EDGE ASPHALT         | PLU | POWER POLE W/LIGHT + UNDERGD. |
| F   | FIR TREE             | PV  | POWER VAULT                   |
| FGL | FOG LINE             | RXR | RAILROAD TIE WALL             |
| GIP | GAS INDICATOR POST   | RHO | RHOODENDRON TREE              |
| GUY | GUY WIRE             | RKY | ROCKERY                       |
| GV  | GAS VALVE            | TMH | TELEPHONE MANHOLE             |
| IE  | INVERT ELEVATION     | TR  | TELEPHONE RISER               |
| M   | MAPLE TREE           | WIP | WATER INDICATOR POST          |
| MB  | MAILBOX              | WM  | WATER METER                   |
- 
- |  |                |  |                |
|--|----------------|--|----------------|
|  | ROCKERY HATCH  |  | BUILDING HATCH |
|  | CONCRETE HATCH |  | GRAVEL HATCH   |
- 
- |  |                             |
|--|-----------------------------|
|  | UGP— UNDERGROUND POWER LINE |
|  | GHP— OVERHEAD POWER LINE    |
|  | G— UNDERGROUND GAS LINE     |
|  | W— UNDERGROUND WATER LINE   |
|  | XXXX.X SPOT ELEVATION       |
|  | CONIFER TREE                |
|  | DECIDUOUS TREE              |

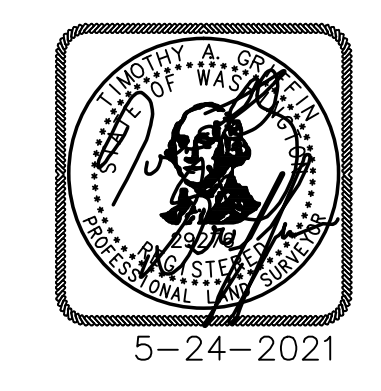
**CONTOUR INTERVAL = 2'**

**BENCHMARK & DATUM INFO**  
 VERTICAL DATUM: NAVD88  
 ORIGINAL BM: CITY OF MERCER ISLAND BM-MI 1074: FND. 1" SQUARE CONC. MON. W/ 1/2" BRASS SPIN & PUNCH, IN CASE DOWN 0.6' FROM GRADE AT THE INT-X OF SE 40TH ST AND GREENBRIER LANE  
 ELEV. = 305.67  
 TBM - A: MAG NAIL SET AT IN THE SW QUAD OF THE INT-X OF E MERCER WAY & SE 40TH ST.  
 ELEV. = 124.31

**LEGAL DESCRIPTION**  
 (PER FIDELITY NATIONAL TITLE COMPANY EXHIBIT 'A', ORDER NO. 611232976)  
 THE NORTH 80 FEET OF THE SOUTH 160 FEET OF THE NORTH 180 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 18, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, LYING EAST OF EAST MERCER WAY.

- GENERAL NOTES**
1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.
  2. UNDERGROUND UTILITIES WERE LOCATED BASED ON THE SURFACE EVIDENCE OF UTILITIES (I.E. PAINT MARKS, SAW CUTS IN PAVEMENT, COVERS, LIDS ETC.) THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
  3. TREE SIZES WERE LOCATED & SPECIES DETERMINED TO THE BEST OF OUR ABILITY. HOWEVER, TYEE SURVEYORS DOES NOT WARRANT THE ACCURACY OF SIZE & SPECIES SHOWN HEREON. ANY TREES CONSIDERED TO BE CRITICAL SHOULD BE VERIFIED BY A TRAINED ARBORIST.
  4. TREE SIZES MEASURED IN INCHES AT BREAST HEIGHT. DL = DRIP LINE DIAMETER IN FEET WITH A DESIGNATION OF (XX) FOR THE TREE TAG NUMBER IF MARKED ON TREE.
  5. NO PROPERTY CORNERS WERE SET IN CONJUNCTION WITH THIS SURVEY.
  6. MAP SYMBOLS ARE NOT TO SCALE, AND ARE FOR GRAPHIC PURPOSES ONLY.
  7. THIS SURVEY WAS CREATED USING A COMBINATION OF INTERNAL RECORDS AND KING COUNTY RECORDS OF SURVEY NO'S. 20031029900002 & 198704019003.
  8. THE INTENT OF THIS SURVEY IS TO AID WITH DESIGN/PLANNING FOR THIS SITE.

**EQUIPMENT & PROCEDURES**  
 FIELD SURVEY CONDUCTED USING A COMBINATION OF GPS USING A REFERENCE NETWORK AND A 5" ELECTRONIC TOTAL STATION WAS USED FOR THIS FIELD TRAVERSE SURVEY. SURVEY PROCEDURES MEET OR EXCEED STATE STANDARDS AS SPECIFIED BY W.A.C. 332-130 WITH REGARD TO LINEAR AND ANGULAR CLOSURES. ALL MEASURING INSTRUMENTS FOR THIS SURVEY HAVE BEEN MAINTAINED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND HAVE BEEN COMPARED WITH A NATIONAL GEODETIC SURVEY CALIBRATED BASELINE WITHIN THE LAST 12 MONTHS.

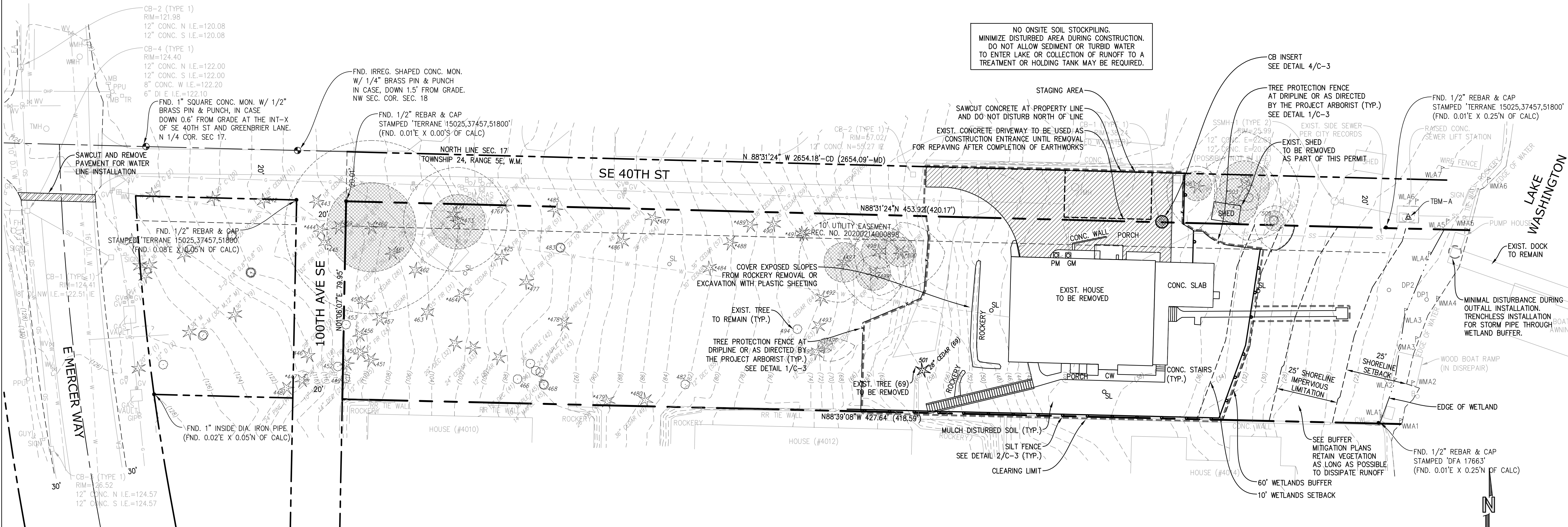


PARCEL NUMBER: 182405-9028  
 NE1/4, NE1/4, SEC. 18, T. 24 N., R. 5 E., W.M.  
 CITY OF MERCER ISLAND, WASHINGTON

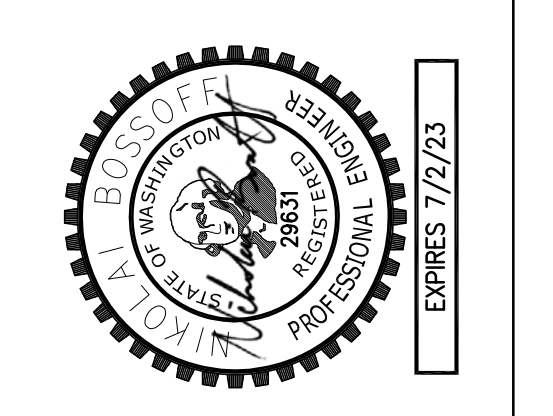
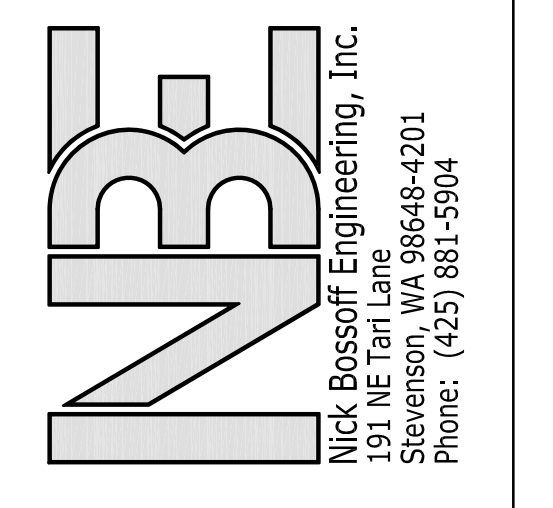
TOPOGRAPHIC SURVEY for <b>MITCH MOUNGER</b>		<b>Tyee Surveyors</b> PROFESSIONAL LAND SURVEYORS 10007 GREENWOOD AV. N. SEATTLE, WA. 98133 206-525-3660
DRAWN BY: AA	DATE: 5-24-2021	
CHKD BY: TG	SCALE: 1" = 20'	SHEET: 2 OF 2
4006 E MERCER WAY MERCER ISLAND, WASHINGTON 98040		



NW1/4, NW1/4, SEC. 17, T. 24 N., R. 5 E., W.M.



NO ONSITE SOIL STOCKPILING.  
MINIMIZE DISTURBED AREA DURING CONSTRUCTION.  
DO NOT ALLOW SEDIMENT OR TURBID WATER  
TO ENTER LAKE OR COLLECTION OF RUNOFF TO A  
TREATMENT OR HOLDING TANK MAY BE REQUIRED.



NO.	DATE	REVISION
1	09/25/20	PERMIT SUBMITTAL
2	07/04/21	BIDS SCOPE CHANGE & CITY COMMENTS
3	10/18/21	WALL REVISION
4	02/07/22	CITY COMMENTS
5	04/29/22	REVISED BUILDING
6	08/08/22	CITY COMMENTS

N. BOSSOFF, P.E.  
 PROJECT MANAGER: NB  
 DESIGNED: TKB  
 DRAWN: SARC-2002  
 JOB NUMBER: SARC-2002  
 FILE NAME: SARC-2002.pln.dwg

**LEGAL DESCRIPTION**

PER STATUTORY WARRANTY DEED REC. NO. 20200423001396  
 LOT 1, LAKEHOLM ADDITION, ACCORDING TO THE PLAT THEREOF  
 RECORDED IN VOLUME 12 OF PLATS, PAGE 52, RECORDS OF KING  
 COUNTY, WASHINGTON;  
 TOGETHER WITH SECOND CLASS SHORELANDS ADJACENT OR  
 ABUTTING THEREON.  
 SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

**BENCHMARK & DATUM**

VERTICAL DATUM: NAVD88  
 ORIGINAL BM: CITY OF MERCER ISLAND BM-MI 1074: FND. 1"  
 SQUARE CONC. MON. W/ 1/2" BRASS PIN & PUNCH, IN CASE DOWN  
 0.6' FROM GRADE AT THE INT-X OF SE 40TH ST AND GREENBRIER  
 LANE  
 ELEV.=305.67  
 TBM A: CITY OF MERCER ISLAND BM-PS 12: FND. 2" BRASS DISC  
 SURFACE MON. STAMPED 'CITY OF MERCER ISLAND GPS CONTROL'  
 SET ON TOP OF A RAISED SEWER LIFT STATION VAULT NEAR THE NE  
 CORNER OF THE SITE AS SHOWN ON MAP.  
 ELEV.=24.18

**EROSION AND SEDIMENT CONTROL NOTES**

- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDING IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDING WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDING AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DDES INSPECTOR. THE DDES INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

**POLLUTION PREVENTION AND SPILL CONTROL**

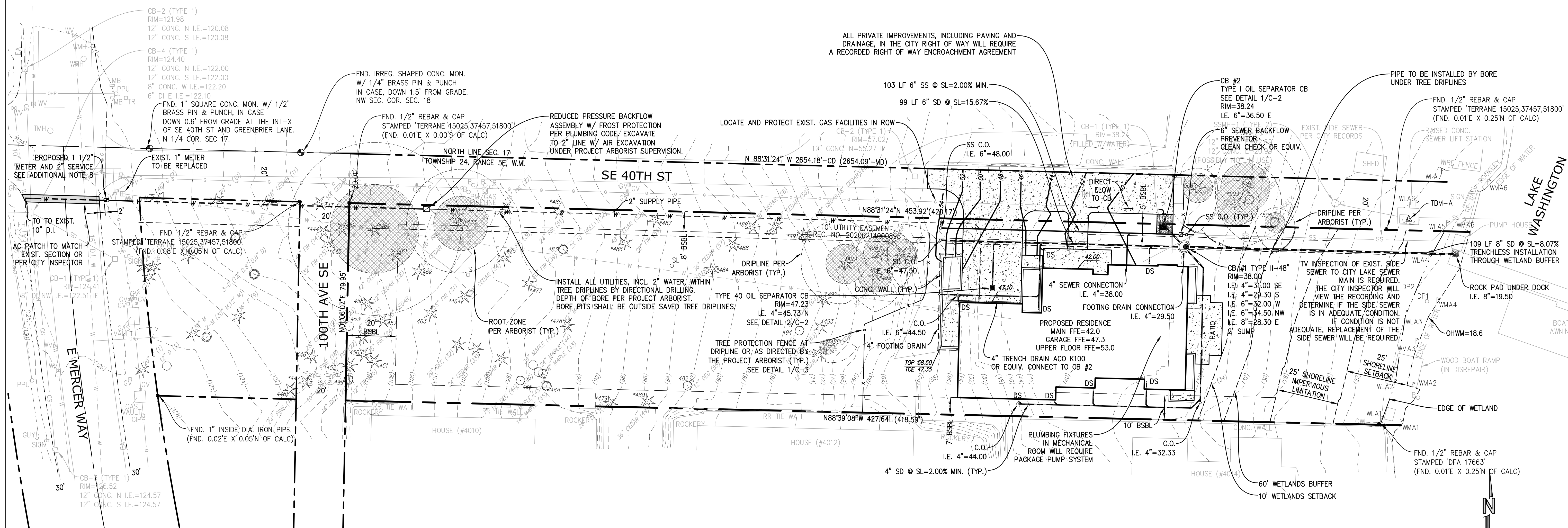
- STORAGE AND HANDLING OF LIQUIDS**
- MINIMIZE AMOUNT OF LIQUIDS STORED ON SITE.
  - STORE AND CONTAIN LIQUID MATERIALS IN SUCH A MANNER THAT IF A VESSEL IS RUPTURED OR LEAKS, THE CONTENTS WILL NOT DISCHARGE, FLOW, OR BE WASHED INTO THE STORM DRAINAGE SYSTEM, SURFACE WATERS, OR GROUNDWATER. TYPICALLY THIS MEANS INSTALLING SECONDARY CONTAINMENT, SUCH AS A LINED EXCAVATION, LARGER CONTAINER, OR USING A DOUBLE-WALLED TANK OR SIMILAR COMMERCIALY AVAILABLE CONTAINMENT FACILITY.
  - PLACE TIGHT-FITTING LIDS ON ALL CONTAINERS.
  - ENCLOSE OR COVER THE CONTAINERS WHERE THEY ARE STORED TO PROTECT FROM RAIN. THE LOCAL FIRE DISTRICT MUST BE CONSULTED FOR LIMITATIONS ON CLEARANCE OF ROOF COVERS OVER CONTAINERS USED TO STORE FLAMMABLE MATERIALS.
  - RAISE THE CONTAINERS OFF THE GROUND BY USING A SPILL CONTAINMENT PALLET OR SIMILAR METHOD THAT HAS PROVISIONS FOR SPILL CONTROL.
  - PLACE DRIP PANS OR ABSORBENT MATERIALS BENEATH ALL MOUNTED CONTAINER TAPS, AND AT ALL POTENTIAL DRIP AND SPILL LOCATIONS DURING FILLING AND UNLOADING OF CONTAINERS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
  - STORE AND MAINTAIN ABSORBENT PADS OR APPROPRIATE SPILL CLEANUP MATERIALS NEAR THE CONTAINER STORAGE AREA, IN A LOCATION KNOWN TO ALL. ENSURE THAT EMPLOYEES ARE FAMILIAR WITH THE SITE'S SPILL PLAN AND/OR PROPER SPILL CLEANUP PROCEDURES.
  - CHECK CONTAINERS (AND ANY CONTAINMENT SUMPS) DAILY FOR LEAKS AND SPILLS. REPLACE CONTAINERS THAT ARE LEAKING, CORRODED, OR OTHERWISE DETERIORATING. IF THE LIQUID CHEMICALS ARE CORROSIVE, CONTAINERS MADE OF COMPATIBLE MATERIALS MUST BE USED INSTEAD OF METAL DRUMS. NEW OR SECONDARY CONTAINERS MUST BE LABELED WITH THE PRODUCT NAME AND HAZARDS.
  - PLACE DRIP PANS OR ABSORBENT MATERIALS BENEATH A CONTAINER THAT IS FOUND TO BE LEAKING. REMOVE THE DAMAGED CONTAINER AS SOON AS POSSIBLE. MOP UP THE SPILLED LIQUID WITH ABSORBENT PADS OR RAGS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- FUELING**
- LOCATE THE FUELING OPERATION TO ENSURE LEAKS OR SPILLS WILL NOT DISCHARGE, FLOW, OR BE WASHED INTO THE STORM DRAINAGE SYSTEM, SURFACE WATER, OR GROUNDWATER.
  - USE DRIP PANS OR ABSORBENT PADS TO CAPTURE DRIPS OR SPILLS DURING FUELING OPERATIONS.
  - IF FUELING IS DONE DURING EVENING HOURS, LIGHTING MUST BE PROVIDED.
  - STORE AND MAINTAIN APPROPRIATE SPILL CLEANUP MATERIALS IN THE MOBILE FUELING VEHICLE. ENSURE THAT EMPLOYEES ARE FAMILIAR WITH PROPER SPILL CONTROL AND CLEANUP PROCEDURES.
  - IMMEDIATELY MOP UP ANY SPILLED FUEL WITH ABSORBENT PADS OR RAGS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- CONCRETE SAW CUTTING, SLURRY, AND WASHWATER DISPOSAL**
- SLURRY FROM SAW CUTTING THE SIDEWALK SHALL BE VACUUMED SO THAT IT DOES NOT ENTER NEARBY STORM DRAINS.
  - CONCRETE TRUCK CHUTES, PUMPS, AND INTERNALS SHALL BE WASHED OUT ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE.
  - UNUSED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINATING BATCH PLANT FOR RECYCLING.
  - HAND TOOLS INCLUDING, BUT NOT LIMITED, SCREEDS, SHOVELS, RAKES, FLOATS, AND TROWELS SHALL BE WASHED OFF ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR IMPERMEABLE ASPHALT.
  - EQUIPMENT THAT CANNOT BE EASILY MOVED, SUCH AS CONCRETE PAVERS, SHALL ONLY BE WASHED IN AREAS THAT DO NOT DIRECTLY DRAIN TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.
  - WASHDOWN FROM AREAS SUCH AS CONCRETE AGGREGATE DRIVEWAY SHALL NOT DRAIN DIRECTLY TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.
  - WHEN NO FORMED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE CONTAINED IN A LINED CONTAINER. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS. CONTAINERS SHALL BE CHECKED FOR HOLES IN THE LINER DAILY DURING CONCRETE POURS AND REPLACED THE SAME DAY.

**MOUNGER RESIDENCE**  
 4006 E MERCER WAY  
 WASHINGTON  
 MERCER ISLAND

TITLE: T.E.S.C. PLAN

SHEET: **C-1**

CALL 48 HOURS BEFORE YOU DIG  
1-800-424-5555

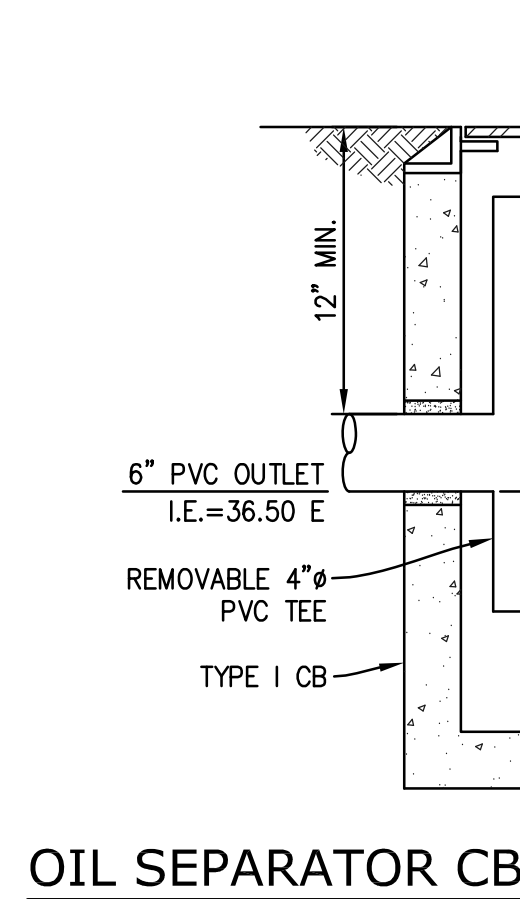


**POST-CONSTRUCTION SOIL QUALITY AND DEPTH NOTES**

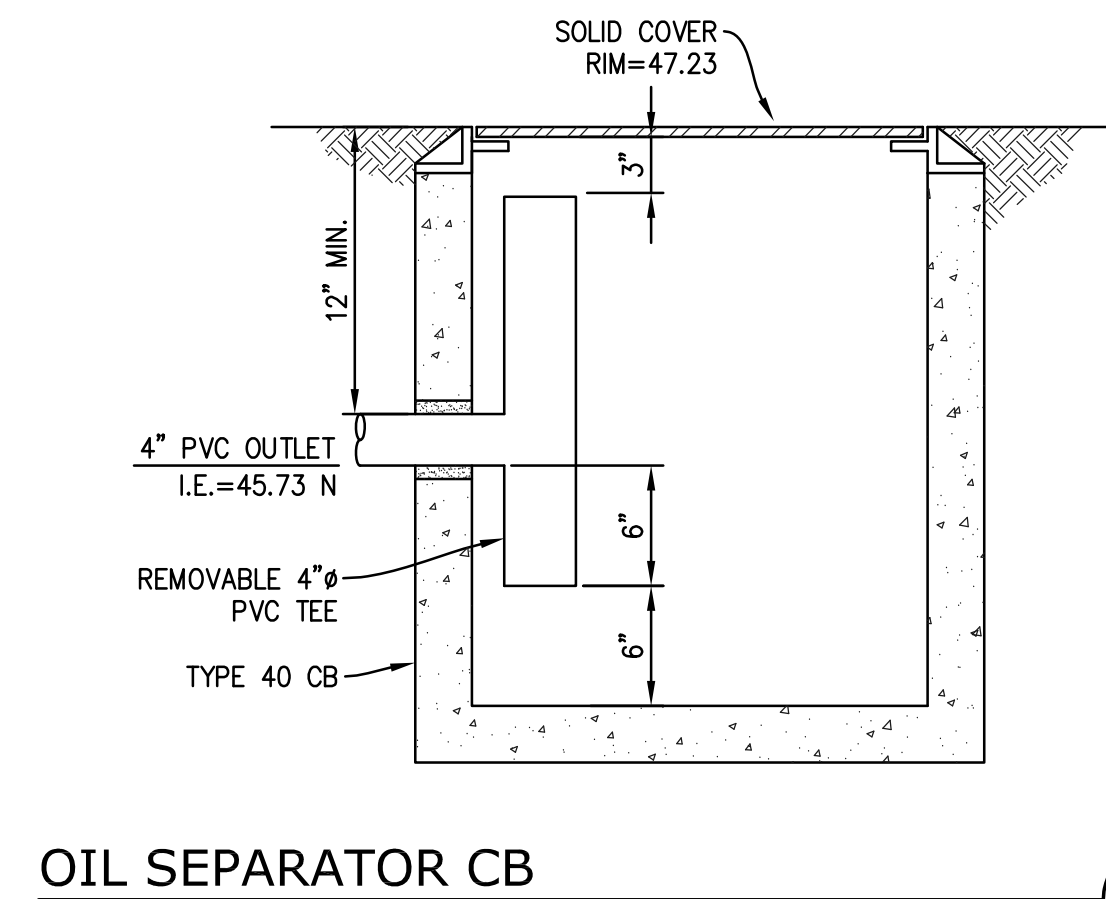
- A. SOIL RETENTION, RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.
- B. SOIL QUALITY. ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:
  1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
  2. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
  3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
    - A. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE DEFINITION OF "COMPOSTED MATERIALS" IN WAC 173-350-220, WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
    - B. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220. THE RESULTING SOIL SHOULD BE CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.
  - C. IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:
    1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
    2. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
    3. STOCKPILE EXISTING TOPSOIL DURING GRADING AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
    4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS. MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

**ADDITIONAL NOTES:**

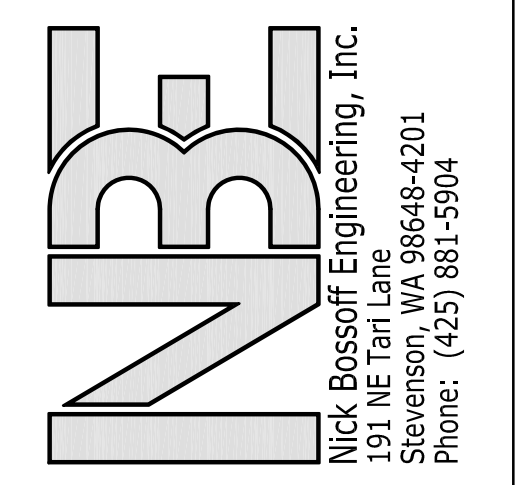
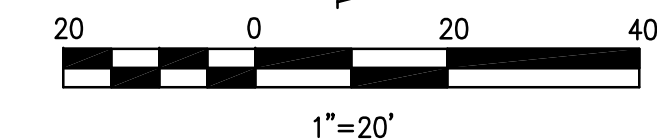
1. ALL CONSTRUCTION MATERIALS AND PRACTICE SHALL CONFORM TO THE CITY OF MERCER ISLAND STANDARDS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS.
2. EXISTING UTILITIES AS SHOWN ARE FROM CITY RECORDS AND ARE APPROXIMATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO IDENTIFY, LOCATE AND PROTECT ABOVE AND BELOW GRADE UTILITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND THE PROPOSED IMPROVEMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AND SHALL MAINTAIN THE NECESSARY SAFEGUARDS AND MANAGE THE CONSTRUCTION SO AS TO PREVENT WATERBORNE SEDIMENTS FROM LEAVING THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
4. ON-SITE PRIVATE STORM AND SEWER PIPE SHALL BE SOLVENT WELDED SCHEDULE 40 PVC OR PVC ASTM D3034 SDR35 UNLESS SHOWN OTHERWISE. PVC PIPE LAID AT A SLOPE IN EXCESS OF 20% SHALL BE SOLVENT WELDED SCHEDULE 40 PVC. STORM PIPE IN THE RIGHT-OF-WAY SHALL BE HIGH-DENSITY POLYETHYLENE DOUBLE-WALLED SMOOTH INTERIOR PIPE SUCH AS ADS N-12 OR EQUIVALENT. FOOTING DRAINS SHALL BE INSTALLED AROUND THE BASE OF ALL FOUNDATION FOOTINGS THAT ENCLOSE A CRAWL SPACE, CELLAR, BASEMENT, GARAGE OR OTHER BUILDING SPACE. FOOTING DRAINS SHALL BE PERFORATED 4-INCH DIAMETER PVC CONFORMING TO D2729, PERFORATIONS DOWN, PLACED BEHIND AND AT THE BASE OF WALL FOOTINGS, AND EMBEDDED IN 12 TO 18 INCHES OF CLEAN CRUSHED ROCK OR PEA GRAVEL WRAPPED IN A LAYER OF FILTER FABRIC (MIRAFI 140N OR EQUIVALENT). A MINIMUM 18-INCH-WIDE ZONE OF FREE DRAINING GRANULAR BACKFILL (I.E. PEA GRAVEL OR WASHED ROCK) SHALL BE PLACED ADJACENT THE WALL AND FOR THE FULL HEIGHT OF THE WALL. ALTERNATIVELY, A COMPOSITE DRAINAGE MATERIAL, SUCH AS MIRADRAIN 6000, MAY BE USED IN LIEU OF THE CLEAN CRUSHED ROCK OR PEA GRAVEL. THE DRAINPIPE AT THE BASE OF THE WALL SHOULD BE GRADED TO DIRECT WATER TO THE OUTLET. TIE THE FOOTING DRAIN INTO THE STORM LINE AT A LOCATION WHERE THE FOOTING DRAIN ELEVATION IS AT LEAST 12-INCHES ABOVE THE STORM LINE. SEE ALSO THE GEOTECHNICAL REPORT BY PANGE0, JULY 7, 2020.
5. EXISTING SIDE SEWER AND STORM DRAIN DEPTH AND LOCATION SHALL BE DETERMINED PRIOR TO ANY CONSTRUCTION, INCLUDING BUILDING CONSTRUCTION. REPORT CONFLICTS WITH PROPOSED CONSTRUCTION TO ENGINEER. NEW SIDE SEWER CONNECTION TO MAIN OR SEWER EJECTOR PUMP MAY BE NECESSARY FOR BASEMENT.
6. PROPOSED METER LOCATION, IF SHOWN, IS APPROXIMATE. CONTRACTOR TO COORDINATE EXACT LOCATION OF NEW SERVICE/METER/ SUPPLY LINE WITH CITY WATER DEPARTMENT DURING CONSTRUCTION.
7. EACH DOWNSPOUT SHALL CONNECT TO A RIGID NON-PERFORATED PIPE AT THE BUILDING PERIMETER. UNDER NO CIRCUMSTANCES SHALL DOWNSPOUTS CONNECT DIRECTLY TO THE PERFORATED FOOTING DRAIN.
8. USE SAND COLLARS FOR PVC PIPE CONNECTIONS TO MANHOLES.
9. VERTICAL BENDS ON THE STORM DRAINS MAY BE NECESSARY TO MAINTAIN MIN. 1.5' SOIL COVER OVER PIPE. MAX. PIPE BENDS TO BE 45'.
10. DOWNSPOUT LOCATIONS SHOWN ARE PRELIMINARY. REFER TO ARCHITECTURAL PLANS FOR FINAL DOWNSPOUT LOCATIONS.
11. AN UNDERSLAB DRAINAGE SYSTEM MAY BE NECESSARY DEPENDENT ON GEOTECHNICAL EVALUATION BY OTHERS.
12. WINDOW WELLS SHALL BE DESIGNED FOR PROPER DRAINAGE BY CONNECTING TO THE BUILDING'S FOUNDATION DRAINAGE SYSTEM REQUIRED PER SECTION R310.2.3.2 OF THE INTERNATIONAL RESIDENTIAL CODE. A DRAINAGE SYSTEM FOR WINDOW WELLS IS NOT REQUIRED WHERE THE FOUNDATION IS ON WELL-DRAINED SOIL OR SAND-GRAVEL MIXTURE SOILS IN ACCORDANCE WITH THE UNITED SOIL CLASSIFICATION SYSTEM, GROUP 1 SOILS, AS DETAILED IN TABLE R405.1 OF THE IRC.



1



2



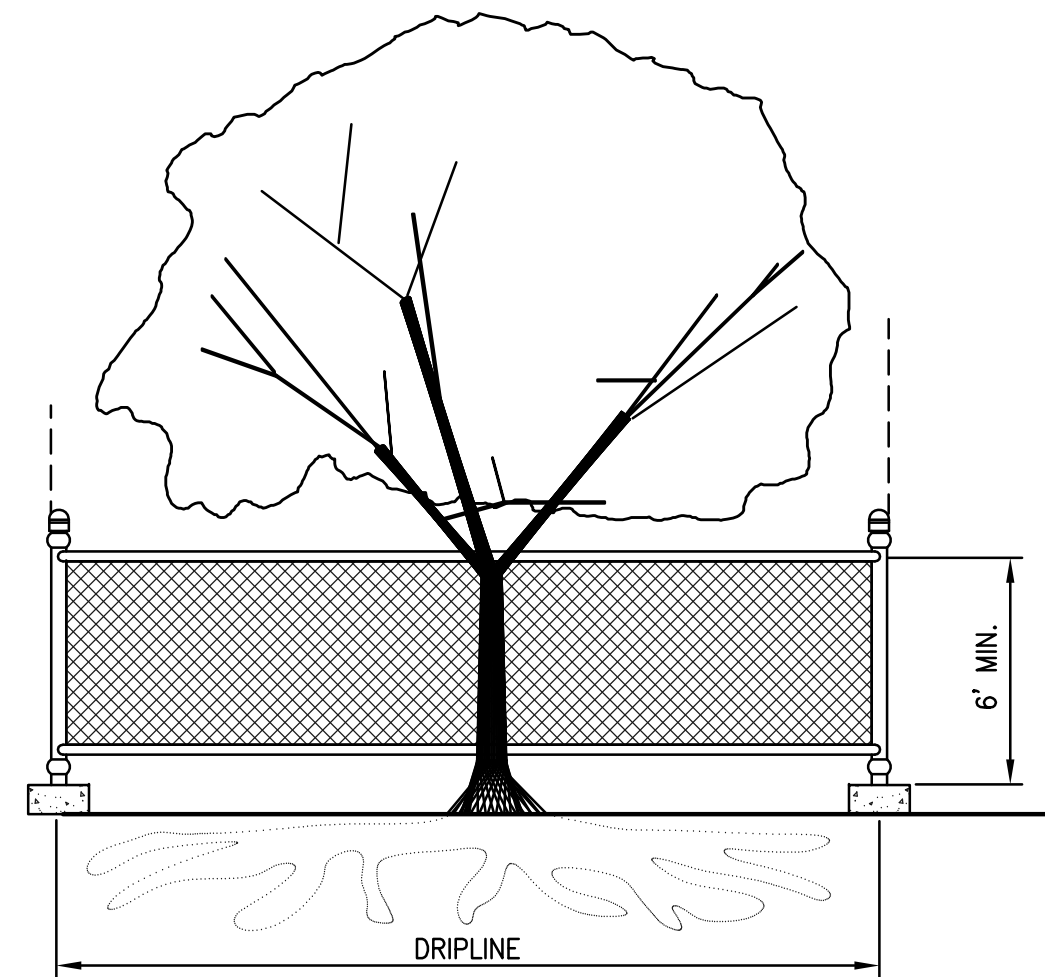
NO.	DATE	REVISION
1	09/25/20	PERMIT SUBMITTAL
2	07/14/21	BIDS SCOPE CHANGE & CITY COMMENTS
3	10/18/21	WALL REVISION
4	02/07/22	CITY COMMENTS
5	04/29/22	RENSED BUILDING
6	06/06/22	CITY COMMENTS

PROJECT MANAGER: N. BOSSOFF, P.E.  
 DESIGNED: NB  
 DRAWN: TKB  
 SARC-2002  
 JOB NUMBER: SARC-2002  
 FILE NAME: SARC-2002.pln.dwg

**MOUNGER RESIDENCE**  
**4006 E MERCER WAY**

WASHINGTON  
 MERCER ISLAND

TITLE: DRAINAGE PLAN  
 SHEET: C-2



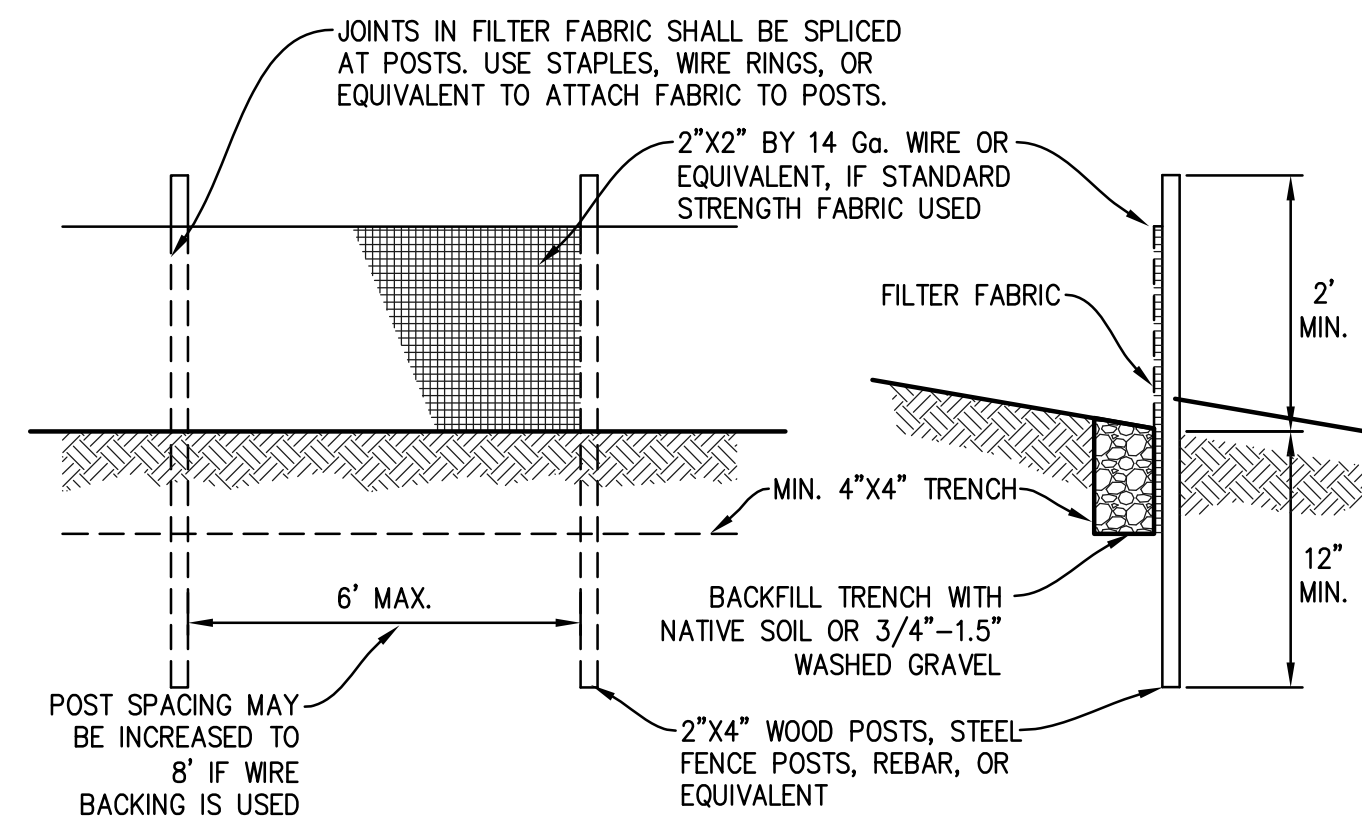
**TREE PROTECTION DURING CONSTRUCTION**

- 6-FT. HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIROLE THE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
- FOR ROOTS OVER 1-IN DIA. THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
- WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.

**TREE PROTECTION**

SCALE: NTS

1



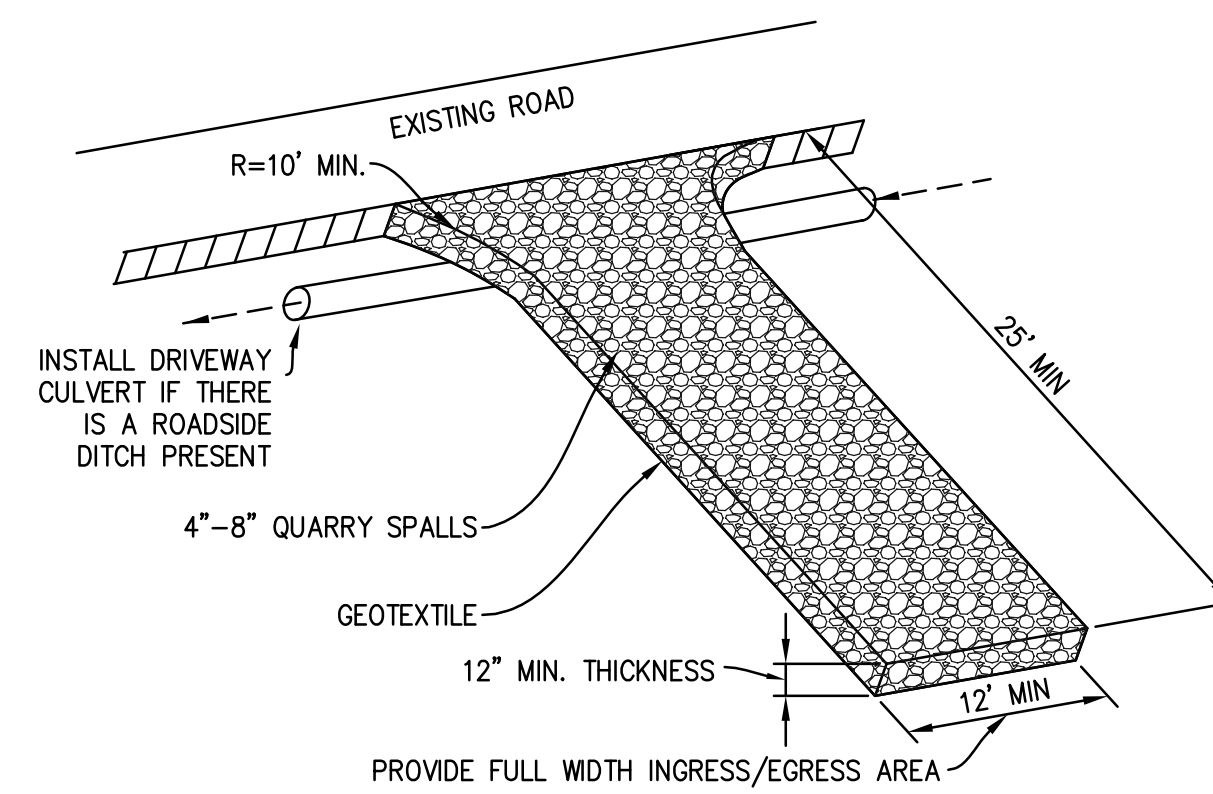
**MAINTENANCE STANDARDS**

- ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGN OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCUR, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
- SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
- IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

**SILT FENCE**

SCALE: NTS

2



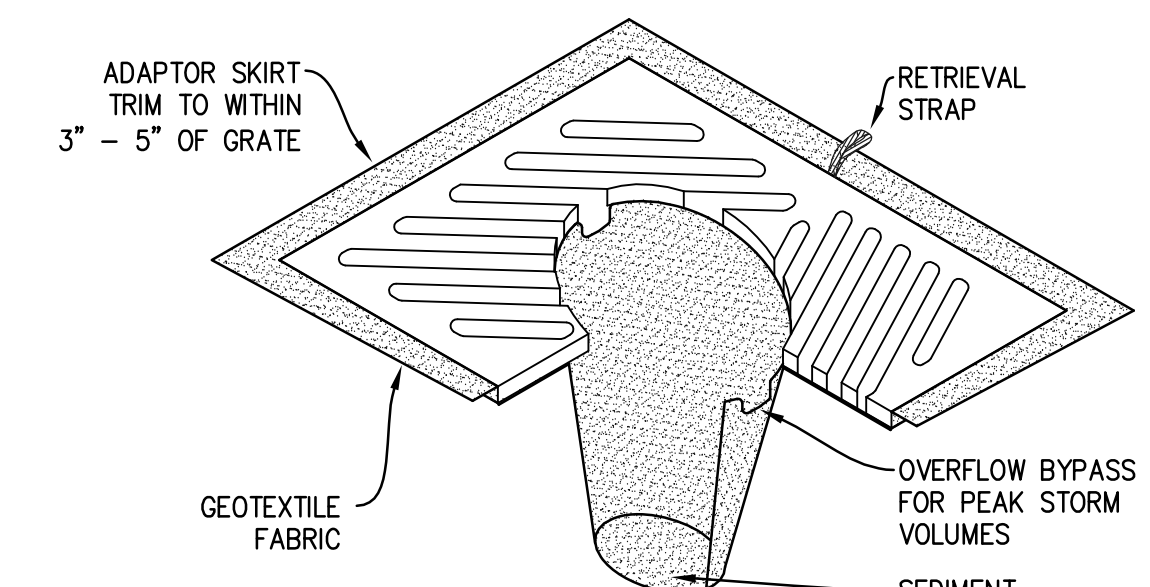
**MAINTENANCE STANDARDS**

- QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
- IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
- ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREET, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
- ANY ROCK SPALLS THAT ARE LOOSEENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING (SECTION 5.4.1) SHALL BE INSTALLED TO CONTROL TRAFFIC.

**ROCK CONSTRUCTION ENTRANCE**

SCALE: NTS

3



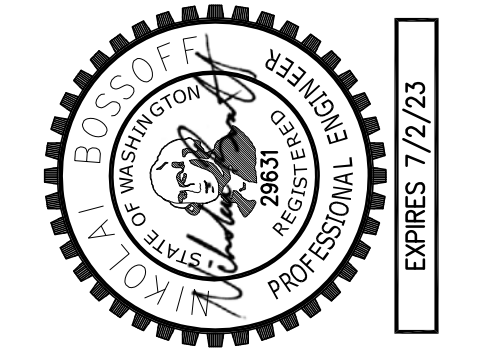
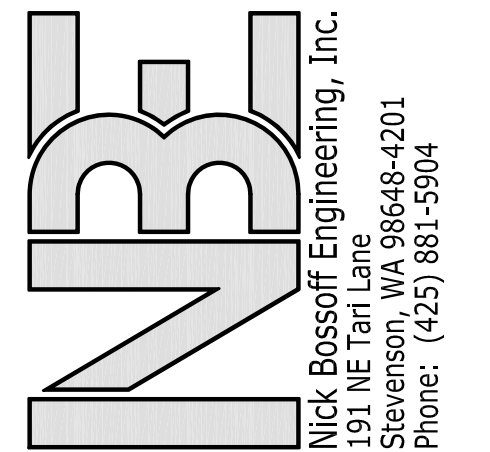
**NOTES**

- INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
- SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
- SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

**CB INSERT**

SCALE: NTS

4



NO.	DATE	REVISION
1	09/25/20	PERMIT SUBMITTAL
2	07/14/21	BIDS SCOPE CHANGE & CITY COMMENTS
3	10/18/21	WALL REVISION
4	02/07/22	CITY COMMENTS
5	04/29/22	REVISED BUILDING
6	08/08/22	CITY COMMENTS

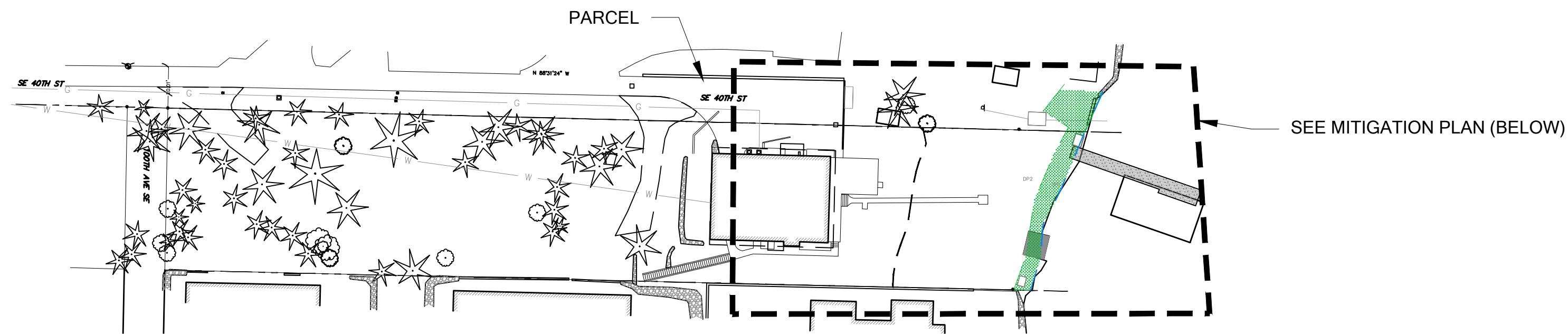
N. BOSSOFF, P.E.
PROJECT MANAGER:
DESIGNED: TKB
DRAWN: SARC-2002
JOB NUMBER: SARC-2002pln.dwg
FILE NAME:

**MOUNGER RESIDENCE**  
**4006 E MERCER WAY**  
 MERCER ISLAND  
 WASHINGTON

TITLE:  
**DETAILS**

SHEET:  
**C-3**

# MOUNGER RESIDENCE



**PARCEL OVERVIEW**

SCALE 1"= 50'

**LEGEND**

- PARCEL BOUNDARY
- DELINEATED OHWM
- DATA POINT
- WETLAND FLAGS
- DELINEATED WETLAND BOUNDARY
- SHORELINE SETBACK (50 FT)
- SHORELINE BUFFER (25 FT)
- WETLAND BUFFER (60 FT)
- WETLAND BUFFER BSBL

**MITIGATION LEGEND**

- PRE-EXISTING IMPACT IN WETLAND
- 20' SHORELINE ENHANCEMENT (770 SF)
- SHORELINE ENHANCEMENT OVER WETLAND (481 SF)

**MITIGATION AREA NOTES**

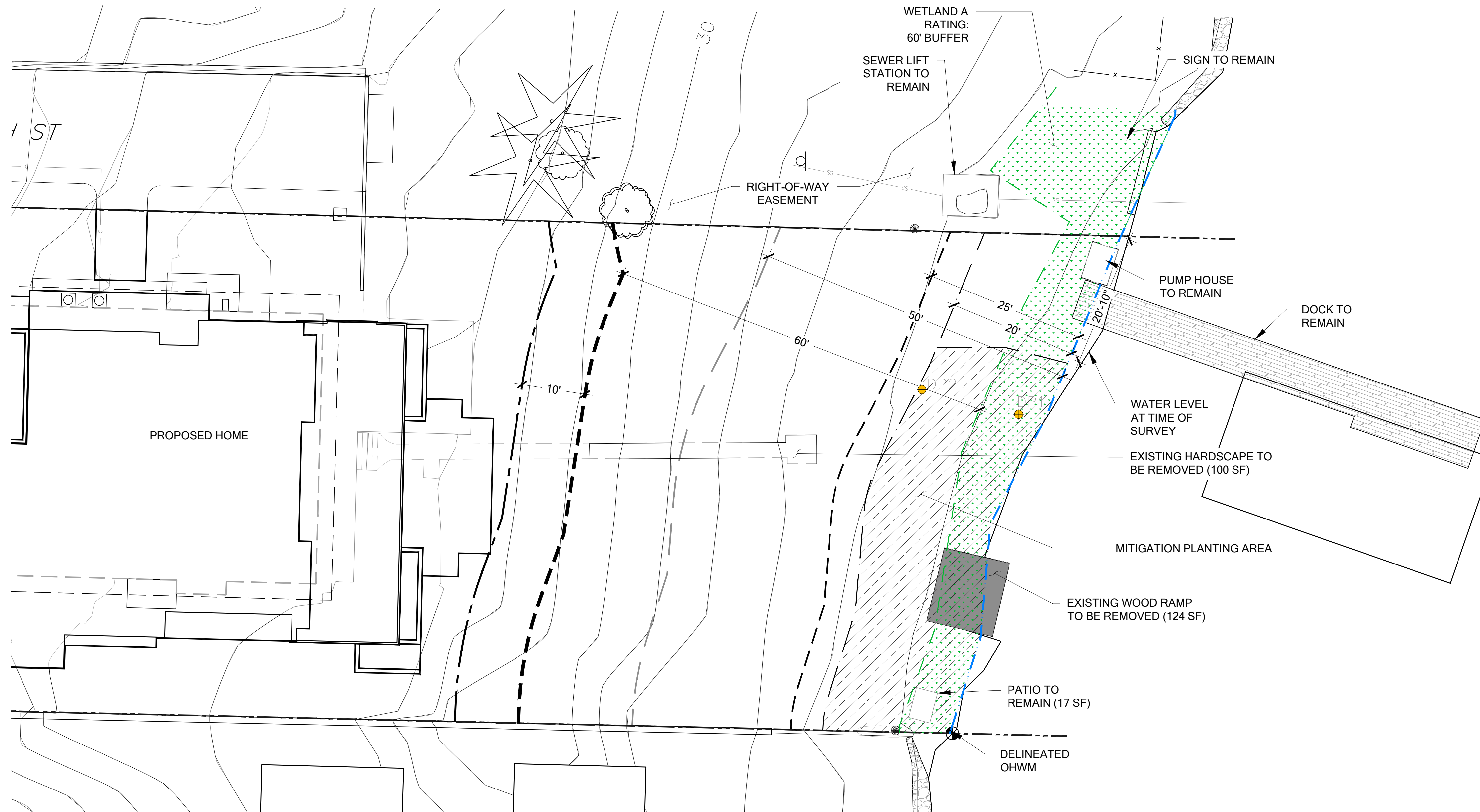
1. TOTAL AREA WITHIN 20 FT OF THE OHWM = 1,668 SF
2. TOTAL PLANTED SHORELINE AREA = 75% = 1,251 SF
3. TOTAL ACCESS AREA = 25% = 417 SF

**SHEET INDEX**

- W1 MITIGATION PLAN AND PARCEL OVERVIEW
- W2 PLANTING PLAN AND SCHEDULE
- W3 MITIGATION DETAILS AND NOTES

**NOTES**

1. WETLAND AND OHWM DELINEATED BY THE WATERSHED COMPANY ON MAY 19, 2020
2. SITE PLAN PROVIDED BY STURMAN ARCHITECTS; 103RD AVENUE NE, SUITE 203, BELLEVUE, WA 98004 (425) 451-7003



**MITIGATION PLAN**

SCALE 1:10



**PERMIT SET**

NOT FOR CONSTRUCTION

-

**MOUNGER RESIDENCE  
SHORELINE MITIGATION PLAN  
PREPARED FOR: BRAD STURMAN**

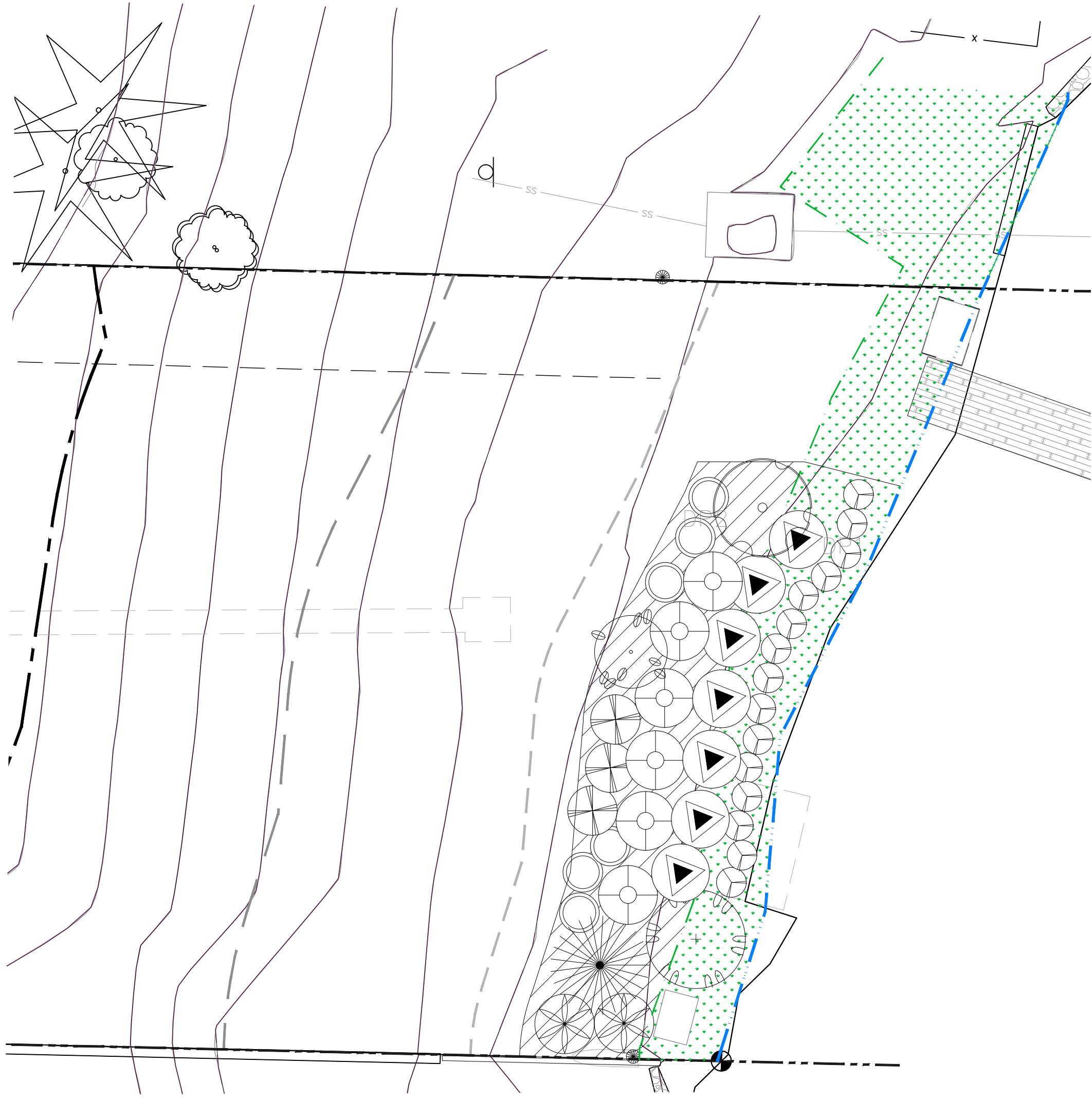
4006 EAST MERCER WAY  
MERCER ISLAND, WA 98040

SUBMITTALS & REVISIONS	
NO.	DESCRIPTION
1	08-20-2020 MITIGATION PLANTING PLAN
2	06-07-2021 MITIGATION PLANTING PLAN REVISED
3	04-28-2022 MITIGATION PLAN REVISED

**SHEET SIZE:**  
ORIGINAL PLAN IS 22" x 34".  
SCALE ACCORDINGLY.

PROJECT MANAGER: RK  
DESIGNED: RK/MF  
DRAFTED: AS/MF/AF  
CHECKED: RK

JOB NUMBER:  
200509  
SHEET NUMBER:  
**W1 OF 3**



**PLANT INSTALLATION SPECIFICATIONS**

GENERAL NOTES

QUALITY ASSURANCE

- PLANTS SHALL MEET OR EXCEED THE SPECIFICATIONS OF FEDERAL, STATE, AND LOCAL LAWS REQUIRING INSPECTION FOR PLANT DISEASE AND INSECT CONTROL.
- PLANTS SHALL BE HEALTHY, VIGOROUS, AND WELL-FORMED, WITH WELL DEVELOPED, FIBROUS ROOT SYSTEMS, FREE FROM DEAD BRANCHES OR ROOTS. PLANTS SHALL BE FREE FROM DAMAGE CAUSED BY TEMPERATURE EXTREMES, LACK OR EXCESS OF MOISTURE, INSECTS, DISEASE, AND MECHANICAL INJURY. PLANTS IN LEAF SHALL BE WELL FOLIATED AND OF GOOD COLOR. PLANTS SHALL BE HABITUATED TO THE OUTDOOR ENVIRONMENTAL CONDITIONS INTO WHICH THEY WILL BE PLANTED (HARDENED-OFF).
- TREES WITH DAMAGED, CROOKED, MULTIPLE OR BROKEN LEADERS WILL BE REJECTED. WOODY PLANTS WITH ABRASIONS OF THE BARK OR SUN SCALD WILL BE REJECTED.
- NOMENCLATURE: PLANT NAMES SHALL CONFORM TO FLORA OF THE PACIFIC NORTHWEST BY HITCHCOCK AND CRONQUIST, UNIVERSITY OF WASHINGTON PRESS, 1973 AND/OR TO A FIELD GUIDE TO THE COMMON WETLAND PLANTS OF WESTERN WASHINGTON & NORTHWESTERN OREGON, ED. SARAH SPEAR COOKE, SEATTLE AUDUBON SOCIETY, 1997.

DEFINITIONS

- PLANTS/PLANT MATERIALS. PLANTS AND PLANT MATERIALS SHALL INCLUDE ANY LIVE PLANT MATERIAL USED ON THE PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CONTAINER GROWN, B&B OR BAREROOT PLANTS; LIVE STAKES AND FASCINES (WATTLES); TUBERS, CORMS, BULBS, ETC.; SPRIGS, PLUGS, AND LINERS.
- CONTAINER GROWN. CONTAINER GROWN PLANTS ARE THOSE WHOSE ROOTBALLS ARE ENCLOSED IN A POT OR BAG IN WHICH THAT PLANT GREW.

SUBSTITUTIONS

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN SPECIFIED MATERIALS IN ADVANCE IF SPECIAL GROWING, MARKETING OR OTHER ARRANGEMENTS MUST BE MADE IN ORDER TO SUPPLY SPECIFIED MATERIALS.
- SUBSTITUTION OF PLANT MATERIALS NOT ON THE PROJECT LIST WILL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE RESTORATION CONSULTANT.
- IF PROOF IS SUBMITTED THAT ANY PLANT MATERIAL SPECIFIED IS NOT OBTAINABLE, A PROPOSAL WILL BE CONSIDERED FOR USE OF THE NEAREST EQUIVALENT SIZE OR ALTERNATIVE SPECIES, WITH CORRESPONDING ADJUSTMENT OF CONTRACT PRICE.
- SUCH PROOF WILL BE SUBSTANTIATED AND SUBMITTED IN WRITING TO THE CONSULTANT AT LEAST 30 DAYS PRIOR TO START OF WORK UNDER THIS SECTION.

INSPECTION

- PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE RESTORATION CONSULTANT FOR CONFORMANCE TO SPECIFICATIONS, EITHER AT TIME OF DELIVERY ON-SITE OR AT THE GROWER'S NURSERY. APPROVAL OF PLANT MATERIALS AT ANY TIME SHALL NOT IMPAIR THE SUBSEQUENT RIGHT OF INSPECTION AND REJECTION DURING PROGRESS OF THE WORK.
- PLANTS INSPECTED ON SITE AND REJECTED FOR NOT MEETING SPECIFICATIONS MUST BE REMOVED IMMEDIATELY FROM SITE OR RED-TAGGED AND REMOVED AS SOON AS POSSIBLE.
- THE RESTORATION CONSULTANT MAY ELECT TO INSPECT PLANT MATERIALS AT THE PLACE OF GROWTH. AFTER INSPECTION AND ACCEPTANCE, THE RESTORATION CONSULTANT MAY REQUIRE THE INSPECTED PLANTS BE LABELED AND RESERVED FOR PROJECT. SUBSTITUTION OF THESE PLANTS WITH OTHER INDIVIDUALS, EVEN OF THE SAME SPECIES AND SIZE, IS UNACCEPTABLE.

MEASUREMENT OF PLANTS

- PLANTS SHALL CONFORM TO SIZES SPECIFIED UNLESS SUBSTITUTIONS ARE MADE AS OUTLINED IN THIS CONTRACT.
- HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO MAIN BODY OF PLANT AND NOT BRANCH OR ROOT TIP TO TIP. PLANT DIMENSIONS SHALL BE MEASURED WHEN THEIR BRANCHES OR ROOTS ARE IN THEIR NORMAL POSITION.
- WHERE A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND AT LEAST 50% OF THE PLANTS SHALL BE AS LARGE AS THE MEDIAN OF THE SIZE RANGE. (EXAMPLE: IF THE SIZE RANGE IS 12" TO 18", AT LEAST 50% OF PLANTS MUST BE 15" TALL.)

SUBMITTALS

- PROPOSED PLANT SOURCES  
1. WITHIN 45 DAYS AFTER AWARD OF THE CONTRACT, SUBMIT A COMPLETE LIST OF PLANT MATERIALS PROPOSED

TO BE PROVIDED DEMONSTRATING CONFORMANCE WITH THE REQUIREMENTS SPECIFIED. INCLUDE THE NAMES AND ADDRESSES OF ALL GROWERS AND NURSERIES.

PRODUCT CERTIFICATES

- PLANT MATERIALS LIST - SUBMIT DOCUMENTATION TO CONSULTANT AT LEAST 30 DAYS PRIOR TO START OF WORK UNDER THIS SECTION THAT PLANT MATERIALS HAVE BEEN ORDERED. ARRANGE PROCEDURE FOR INSPECTION OF PLANT MATERIAL WITH CONSULTANT AT TIME OF SUBMISSION.
- HAVE COPIES OF VENDOR'S OR GROWER'S INVOICES OR PACKING SLIPS FOR ALL PLANTS ON SITE DURING INSTALLATION. INVOICE OR PACKING SLIP SHOULD LIST SPECIES BY SCIENTIFIC NAME, QUANTITY, AND DATE DELIVERED (AND GENETIC ORIGIN IF THAT INFORMATION WAS PREVIOUSLY REQUESTED).

DELIVERY, HANDLING, & STORAGE

NOTIFICATION  
CONTRACTOR MUST NOTIFY CONSULTANT 48 HOURS OR MORE IN ADVANCE OF DELIVERIES SO THAT CONSULTANT MAY ARRANGE FOR INSPECTION.

PLANT MATERIALS

- TRANSPORTATION - DURING SHIPPING, PLANTS SHALL BE PACKED TO PROVIDE PROTECTION AGAINST CLIMATE EXTREMES, BREAKAGE AND DRYING. PROPER VENTILATION AND PREVENTION OF DAMAGE TO BARK, BRANCHES, AND ROOT SYSTEMS MUST BE ENSURED.
- SCHEDULING AND STORAGE - PLANTS SHALL BE DELIVERED AS CLOSE TO PLANTING AS POSSIBLE. PLANTS IN STORAGE MUST BE PROTECTED AGAINST ANY CONDITION THAT IS DETRIMENTAL TO THEIR CONTINUED HEALTH AND VIGOR.
- HANDLING - PLANT MATERIALS SHALL NOT BE HANDLED BY THE TRUNK, LIMBS, OR FOLIAGE BUT ONLY BY THE CONTAINER, BALL, BOX, OR OTHER PROTECTIVE STRUCTURE. EXCEPT BAREROOT PLANTS SHALL BE KEPT IN BUNDLES UNTIL PLANTING AND THEN HANDLED CAREFULLY BY THE TRUNK OR STEM.
- LABELS - PLANTS SHALL HAVE DURABLE, LEGIBLE LABELS STATING CORRECT SCIENTIFIC NAME AND SIZE. TEN PERCENT OF CONTAINER GROWN PLANTS IN INDIVIDUAL POTS SHALL BE LABELED. PLANTS SUPPLIED IN FLATS, RACKS, BOXES, BAGS, OR BUNDLES SHALL HAVE ONE LABEL PER GROUP.

WARRANTY

PLANT WARRANTY  
PLANTS MUST BE GUARANTEED TO BE TRUE TO SCIENTIFIC NAME AND SPECIFIED SIZE, AND TO BE HEALTHY AND CAPABLE OF VIGOROUS GROWTH.

REPLACEMENT

- PLANTS NOT FOUND MEETING ALL OF THE REQUIRED CONDITIONS AT THE CONSULTANT'S DISCRETION MUST BE REMOVED FROM SITE AND REPLACED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- PLANTS NOT SURVIVING AFTER ONE YEAR TO BE REPLACED AT THE CONTRACTOR'S EXPENSE.

PLANT MATERIAL

GENERAL

- PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO OR MORE SEVERE THAN THOSE OF THE PROJECT SITE.
- PLANTS SHALL BE TRUE TO SPECIES AND VARIETY OR SUBSPECIES. NO CULTIVARS OR NAMED VARIETIES SHALL BE USED UNLESS SPECIFIED AS SUCH.

QUANTITIES

SEE PLANT LIST ON ACCOMPANYING PLANS AND PLANT SCHEDULES.

ROOT TREATMENT

- CONTAINER GROWN PLANTS (INCLUDES PLUGS): PLANT ROOT BALLS MUST HOLD TOGETHER WHEN THE PLANT IS REMOVED FROM THE POT, EXCEPT THAT A SMALL AMOUNT OF LOOSE SOIL MAY BE ON THE TOP OF THE ROOTBALL.
- PLANTS MUST NOT BE ROOT-BOUND; THERE MUST BE NO CIRCLING ROOTS PRESENT IN ANY PLANT INSPECTED.
- ROOTBALLS THAT HAVE CRACKED OR BROKEN WHEN REMOVED FROM THE CONTAINER SHALL BE REJECTED.

**PLANT SCHEDULE**

TREES	COMMON / BOTANICAL NAME	SIZE	QTY	GROUNDCOVER	COMMON / BOTANICAL NAME	SIZE	SPACING	QTY	REMARKS
	PAPER BIRCH / BETULA PAPYRIFERA	1.5" CAL	1		GOATSBEARD / ARUNCUS SYLVESTER	1 GAL.	24" O.C.	25	PLANT IN SAME-SPECIES GROUPINGS OF 3-9 PLANTS
	OREGON ASH / FRAXINUS LATIFOLIA	5 GAL.	1		CAMAS / CAMASSIA QUAMASH	1 GAL.	24" O.C.	25	
	OREGON ASH / FRAXINUS LATIFOLIA	5 GAL.	1		TUFTED HAIRGRASS / DESCHAMPSIA CESPITOSA	1 GAL.	24" O.C.	25	
	SHORE PINE / PINUS CONTORTA	6 FT B&B	1		SMALL-FRUITED BULRUSH / SCIRPUS MICROCARPUS	4" POT/PLUG	24" O.C.	25	PLANT IN SAME SPECIES GROUPINGS 5-9 PLANTS IN CLUSTERS THROUGHOUT PLANTING BED
	VINE MAPLE / ACER CIRCINATUM	10 GAL.	1		WESTERN COLUMBINE / AQUILEGIA FORMOSA	1 GAL.	24" O.C.	12	
	CORNUS SERICEA 'KELSEY' / RED-TWIG DOGWOOD	1 GAL.	15		SWORD FERN / POLYSTICHUM MUNITUM	1 GAL.	24" O.C.	24	
	PACIFIC BAYBERRY / MORELLA CALIFORNICA	5 GAL.	2		OREGON STONECROP / SEDUM OREGONUM	4" POT	15" O.C.	32	
	MOCK ORANGE / PHILADELPHUS LEWISII	1 GAL.	6		TOUGH-LEAF IRIS / IRIS TENAX	1 GAL.	24" O.C.	12	
	CLUSTERED WILD ROSE / ROSA PISOCARPA	1 GAL.	7						
	ROSE SPIREA / SPIRAEA DENSIFLORA	1 GAL.	6						
	VACCINIUM OVATUM / EVERGREEN HUCKLEBERRY	2 GAL.	3						

**PLANTING PLAN AND SCHEDULE**  
SCALE 1:10



**NOTES**

- SEE SHEET W3 FOR SITE PREPARATION AND PLANTING DETAILS.

**PERMIT SET**

NOT FOR CONSTRUCTION

SHEET SIZE:  
ORIGINAL PLAN IS 22" x 34".  
SCALE ACCORDINGLY.

PROJECT MANAGER: RK  
DESIGNED: RK/MF  
DRAFTED: AS/MF/AF  
CHECKED: RK

JOB NUMBER: 200509  
SHEET NUMBER: W2 OF 3

SUBMITTALS & REVISIONS

NO.	DATE	DESCRIPTION	BY
1	08-20-2020	MITIGATION PLANTING PLAN	AS/MF
2	06-07-2021	MITIGATION PLANTING PLAN REVISED	AF
	04-28-2022	MITIGATION PLANTING PLAN REVISED	AF

**MITIGATION SPECIFICATIONS**

**OVERVIEW**

A COMPREHENSIVE FIVE-YEAR MAINTENANCE AND MONITORING PLAN IS INCLUDED AS PART OF THE SHORELINE AND WETLAND/WETLAND BUFFER ENHANCEMENT. THE PLAN SPECIFIES APPROPRIATE SPECIES FOR PLANTING AND PLANTING TECHNIQUES, DESCRIBES PROPER MAINTENANCE ACTIVITIES, AND SETS FORTH PERFORMANCE STANDARDS TO BE MET YEARLY DURING MONITORING. THIS WILL ENSURE THAT ENHANCEMENT/RESTORATION PLANTINGS WILL BE MAINTAINED, MONITORED, AND SUCCESSFULLY ESTABLISHED WITHIN THE FIRST FIVE YEARS FOLLOWING IMPLEMENTATION.

PROPOSED RESTORATION BEGINS WITH INCORPORATING COMPOST INTO THE BUFFER ENHANCEMENT AREA. NO COMPOST SHALL BE APPLIED IN THE WETLAND. THIS WILL BE FOLLOWED BY INSTALLATION OF THREE NATIVE TREE SPECIES, SEVEN NATIVE SHRUB SPECIES, AND EIGHT NATIVE GROUNDCOVER SPECIES SUITABLE TO THE SITE. THE PLAN CALLS FOR NEW PLANTINGS WITHIN THE INNER 20-FOOT SHORELINE SETBACK AREA, INCLUDING WITHIN WETLAND A AND THE OVERLAPPING SHORELINE SETBACK/WETLAND A BUFFER. NATIVE PLANTINGS ARE INTENDED TO INCREASE NATIVE PLANT COVER, IMPROVE NATIVE SPECIES DIVERSITY, IMPROVE VEGETATIVE SCREENING, INCREASE VEGETATIVE STRUCTURE, AND PROVIDE FOOD AND OTHER HABITAT RESOURCES FOR WILDLIFE.

**GOALS**

ENHANCE SHORELINE BUFFERS.

- a. REDUCE THE AMOUNT OF IMPERVIOUS SURFACE AREA WITHIN THE WETLAND BUFFER AND SHORELINE SETBACK.
- b. ESTABLISH DENSE AND DIVERSE NATIVE TREE, SHRUB, AND GROUNDCOVER VEGETATION THROUGHOUT THE MITIGATION AREA.

**PERFORMANCE STANDARDS**

THE STANDARDS LISTED BELOW WILL BE USED TO JUDGE THE SUCCESS OF THE PLAN OVER TIME. IF THE STANDARDS ARE MET AT THE END OF THE FIVE-YEAR MONITORING PERIOD, THE CITY SHALL ISSUE RELEASE OF THE PERFORMANCE BOND.

1. SURVIVAL:
  - a. 100% SURVIVAL OF ALL INSTALLED TREES AND SHRUBS AT THE END OF YEAR-1. THIS STANDARD MAY BE MET THROUGH ESTABLISHMENT OF INSTALLED PLANTS OR BY REPLANTING AS NECESSARY TO ACHIEVE THE REQUIRED NUMBERS.
  - b. 80% SURVIVAL OF ALL INSTALLED TREES AND SHRUBS AT THE END OF YEAR 2. THIS STANDARD MAY BE MET THROUGH ESTABLISHMENT OF INSTALLED PLANTS OR BY REPLANTING AS NECESSARY TO ACHIEVE THE REQUIRED NUMBERS.
2. NATIVE VEGETATION COVER IN PLANTED AREAS:
  - a. ACHIEVE AT LEAST 60% COVER OF NATIVE TREES, SHRUBS, AND GROUNDCOVERS IN PLANTED AREAS BY THE END OF YEAR 3. VOLUNTEER SPECIES MAY COUNT TOWARD THIS STANDARD.
  - b. ACHIEVE AT LEAST 80% COVER OF NATIVE TREES, SHRUBS, AND GROUNDCOVERS IN PLANTED AREAS BY THE END OF YEAR 5. VOLUNTEER SPECIES MAY COUNT TOWARD THIS STANDARD.
3. DIVERSITY: A MINIMUM OF TWO TREE SPECIES, FIVE SHRUB SPECIES, AND FIVE EMERGENT SPECIES WILL BE PRESENT IN THE MITIGATION AREA IN YEARS 3 - 5.
4. INVASIVE SPECIES STANDARD: NO MORE THAN 10% COVER OF INVASIVE SPECIES IN THE PLANTING AREA IN ANY MONITORING YEAR. INVASIVE SPECIES ARE DEFINED AS ANY CLASS A, B, OR C NOXIOUS WEEDS AS LISTED BY THE KING COUNTY NOXIOUS WEED CONTROL BOARD.

**MONITORING METHODS**

THIS MONITORING PROGRAM IS DESIGNED TO TRACK THE SUCCESS OF THE MITIGATION SITE OVER TIME BY MEASURING THE DEGREE TO WHICH THE PERFORMANCE STANDARDS LISTED ABOVE ARE BEING MET. AN AS-BUILT PLAN WILL BE PREPARED WITHIN 30 DAYS OF SUBSTANTIALLY COMPLETE CONSTRUCTION OF THE MITIGATION AREAS. THE AS-BUILT PLAN WILL DOCUMENT CONFORMANCE WITH THESE PLANS AND WILL DISCLOSE ANY SUBSTITUTIONS OR OTHER NON-CRITICAL DEPARTURES. THE AS-BUILT PLAN WILL ESTABLISH BASELINE PLANT INSTALLATION QUANTITIES AND PHOTOPOINTS THAT WILL BE USED THROUGHOUT THE MONITORING PERIOD TO VISUALLY DOCUMENT SITE CHANGES OVER TIME.

MONITORING WILL OCCUR ANNUALLY FOR FIVE YEARS. THE INSPECTION WILL OCCUR IN LATE SUMMER OR FALL AND WILL RECORD THE FOLLOWING AND BE SUBMITTED IN AN ANNUAL REPORT TO THE CITY:

1. COUNTS OF SURVIVING AND DEAD/DYING PLANTS BY SPECIES IN THE PLANTING AREAS.
2. ESTIMATES OF NATIVE SPECIES COVER USING COVER CLASS METHOD.
3. ESTIMATES OF INVASIVE SPECIES COVER USING COVER CLASS METHOD.
4. PHOTOGRAPHIC DOCUMENTATION AT PERMANENT PHOTOPOINTS.
5. RECOMMENDATIONS FOR MAINTENANCE IN THE MITIGATION AREAS.
6. RECOMMENDATIONS FOR REPLACEMENT OF ALL DEAD OR DYING PLANT MATERIAL WITH SAME OR LIKE SPECIES AND NUMBER AS ON THE APPROVED PLAN.

**CONSTRUCTION NOTES AND SPECIFICATIONS**

**GENERAL NOTES**

THE RESTORATION SPECIALIST WILL OVERSEE THE FOLLOWING:

1. CLEARING, SOIL DECOMPACTION, AND COMPOST INCORPORATION;
2. INVASIVE WEED CLEARING; AND
3. PLANT MATERIAL INSPECTION.
  - a) PLANT DELIVERY INSPECTION.
  - b) 100% PLANT INSTALLATION INSPECTION.

**WORK SEQUENCE**

1. CLEAR THE PLANTING AREA OF ALL INVASIVE SPECIES USING HAND TOOLS.
2. ROTO-TILL THREE INCHES OF COMPOST INTO THE UPPER 9 INCHES OF THE SOIL IN BUFFER AREAS ONLY. DO NOT APPLY COMPOST WITHIN THE WETLAND AREA.
3. ALL PLANT INSTALLATION WILL TAKE PLACE DURING THE DORMANT SEASON (OCTOBER 15<sup>TH</sup> TO MARCH 1<sup>ST</sup>).
4. LAYOUT VEGETATION TO BE INSTALLED PER THE PLANTING PLAN AND PLANT SCHEDULE.
5. PREPARE A PLANTING PIT FOR EACH PLANT AND INSTALL PER THE PLANTING DETAILS.
6. MULCH EACH TREE AND SHRUB WITH A CIRCULAR WOOD CHIP MULCH RING, FOUR INCHES THICK AND EXTENDING SIX INCHES FROM THE BASE OF THE PLANT (12-INCH DIAMETER) IN THE BUFFER AREAS ONLY. DO NOT APPLY MULCH IN WETLAND AREA. ALTERNATIVELY, A BLANKET MULCH APPLICATION MAY BE APPLIED TO THE ENTIRE RESTORATION AREA.

**MAINTENANCE**

THIS SITE WILL BE MAINTAINED FOR FIVE YEARS FOLLOWING COMPLETION OF THE PLANT INSTALLATION.

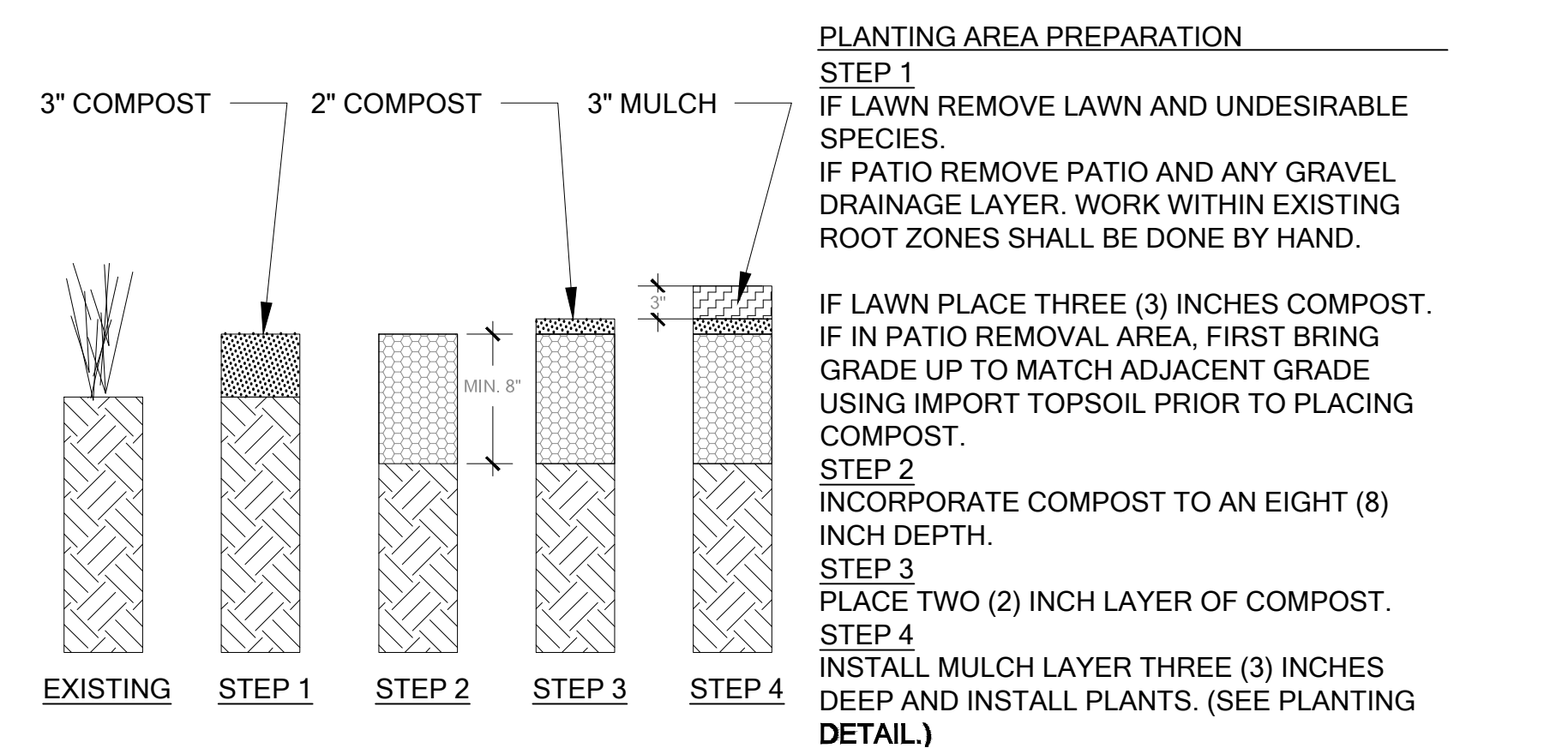
1. REPLACE EACH PLANT FOUND DEAD IN THE SUMMER MONITORING VISIT DURING THE UPCOMING FALL DORMANT SEASON (OCTOBER 15<sup>TH</sup> TO MARCH 1<sup>ST</sup>).
2. INVASIVE SPECIES MAINTENANCE PLAN: HIMALAYAN BLACKBERRY, ENGLISH IVY, ENGLISH LAUREL, AND OTHER INVASIVE WOODY VEGETATION WILL BE GRUBBED OUT BY HAND ON AN ONGOING BASIS, WITH CARE TAKEN TO GRUB OUT ROOTS EXCEPT WHERE SUCH WORK WILL JEOPARDIZE THE ROOTS OF INSTALLED OR VOLUNTEER NATIVE PLANTS.
3. AT LEAST TWICE YEARLY, REMOVE BY HAND ALL COMPETING WEEDS AND WEED ROOTS FROM BENEATH EACH INSTALLED PLANT AND ANY DESIRABLE VOLUNTEER VEGETATION TO A DISTANCE OF 12 INCHES FROM THE MAIN PLANT STEM. WEEDING SHOULD OCCUR AS NEEDED DURING THE SPRING AND SUMMER. FREQUENT WEEDING WILL RESULT IN LOWER MORTALITY AND LOWER PLANT REPLACEMENT COSTS.
4. DO NOT WEED THE AREA NEAR THE PLANT BASES WITH STRING TRIMMER (WEED WHACKER). NATIVE PLANTS ARE EASILY DAMAGED OR KILLED, AND WEEDS EASILY RECOVER AFTER TRIMMING.
5. MULCH THE WEEDED AREAS BENEATH EACH PLANT WITH WOOD CHIP MULCH AS NECESSARY TO MAINTAIN A MINIMUM 4-INCH-THICK, 12-INCH-DIAMETER MULCH RING.
6. THE TEMPORARY IRRIGATION SYSTEM WILL BE OPERATED TO ENSURE THAT PLANTS RECEIVE A MINIMUM OF ONE INCH OF WATER PER WEEK FROM JUNE 1<sup>ST</sup> THROUGH SEPTEMBER 30<sup>TH</sup> FOR THE FIRST TWO YEARS FOLLOWING INSTALLATION. IRRIGATION BEYOND THE SECOND YEAR MAY BE NEEDED BASED ON SITE PERFORMANCE OR SIGNIFICANT REPLANTING.

**CONTINGENCY PLAN**

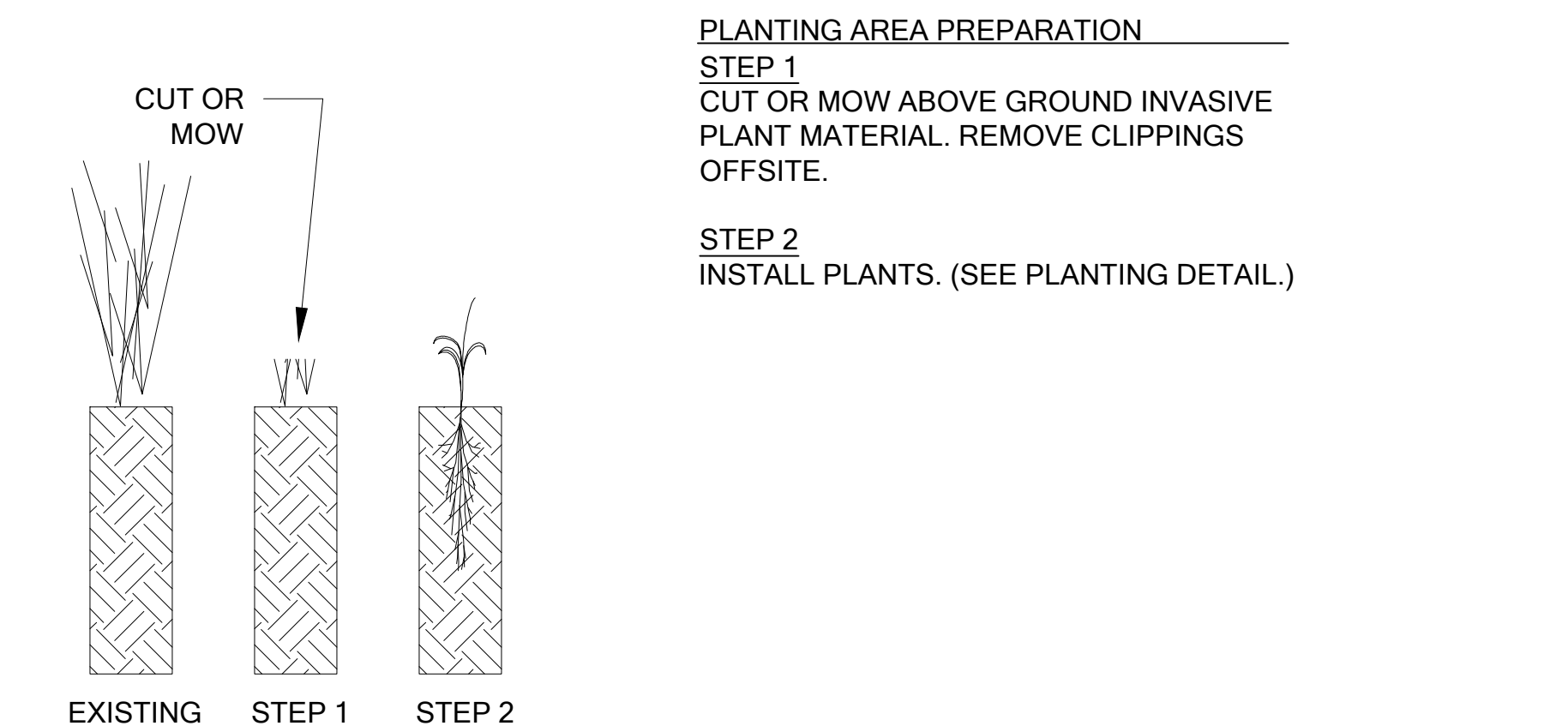
IF ALL OR PART OF THE MITIGATION AREA FAILS TO ESTABLISH ACCORDING TO THE GOALS AND PERFORMANCE STANDARDS, A CONTINGENCY PLAN SHALL BE DEVELOPED. CONTINGENCY MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO, PLANT SPECIES SUBSTITUTIONS, SOIL AMENDMENTS, HERBIVORE EXCLUSION FENCING, MODIFIED IRRIGATION SCHEDULE, AND ADAPTIVE WEED MANAGEMENT.

**MATERIAL SPECIFICATIONS AND DEFINITIONS**

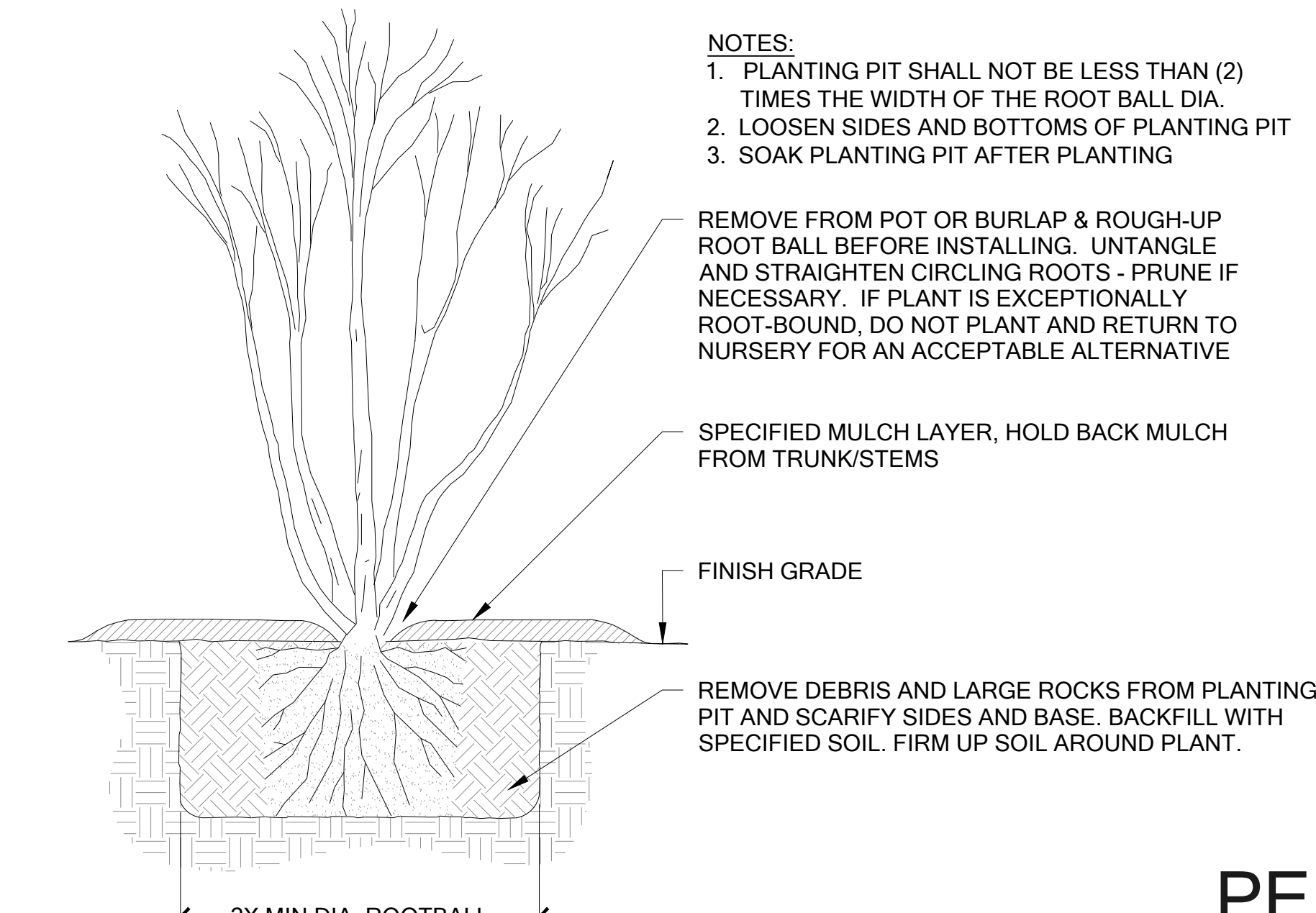
1. IRRIGATION SYSTEM: AUTOMATED SYSTEM CAPABLE OF DELIVERING AT LEAST ONE INCH OF WATER PER WEEK FROM JUNE 1 THROUGH SEPTEMBER 30 FOR THE FIRST TWO YEARS FOLLOWING INSTALLATION.
2. RESTORATION PROFESSIONAL: WATERSHED COMPANY [(425) 822-5242] PERSONNEL, OR OTHER PERSONS QUALIFIED TO EVALUATE ENVIRONMENTAL RESTORATION PROJECTS.
3. WOOD CHIP MULCH: ARBORIST CHIPS (CHIPPED WOODY MATERIAL) APPROXIMATELY 1 TO 3 INCHES IN MAXIMUM DIMENSION (NOT SAWDUST OR COARSE HOG FUEL). THIS MATERIAL IS COMMONLY AVAILABLE IN LARGE QUANTITIES FROM ARBORISTS OR TREE-PRUNING COMPANIES. THIS MATERIAL IS SOLD AS "ANIMAL FRIENDLY HOG FUEL" AT PACIFIC TOPSOILS [(800) 884-7645]. MULCH MUST NOT CONTAIN APPRECIABLE QUANTITIES OF GARBAGE, PLASTIC, METAL, SOIL, AND DIMENSIONAL LUMBER OR CONSTRUCTION/DEMOLITION DEBRIS. QUANTITY REQUIRED: 17 CUBIC YARDS.
4. COMPOST: CEDAR GROVE COMPOST OR EQUIVALENT "COMPOSTED MATERIAL" PER WASHINGTON ADMIN. CODE 173-350-220. QUANTITY REQUIRED: 28 CUBIC YARDS.



**A BUFFER MITIGATION AREA SITE PREPARATION** SEE SHEET W1 Scale: NTS



**B WETLAND MITIGATION AREA SITE PREPARATION** SEE SHEET W1 Scale: NTS



**C CONTAINER PLANTING DETAIL** Scale: NTS

**MITIGATION DETAILS AND NOTES**

**THE WATERSHED COMPANY**  
 750 Sixth Street South  
 Kirkland WA 98033  
 p 425.822.5242  
 www.watershedco.com  
 Science & Design

**MOUNGER RESIDENCE**  
**SHORELINE MITIGATION PLAN**  
 PREPARED FOR: BRAD STURMAN  
 4006 EAST MERCER WAY  
 MERCER ISLAND, WA 98040

SUBMITTALS & REVISIONS		BY	DATE	DESCRIPTION
1	AS/MF	08-20-2020	MITIGATION PLANTING PLAN	
2	AF	06-07-2021	MITIGATION PLANTING PLAN REVISED	
	AF	04-28-2022	MITIGATION PLANTING PLAN REVISED	

**PERMIT SET**

NOT FOR CONSTRUCTION

**SHEET SIZE:**  
 ORIGINAL PLAN IS 22" x 34".  
 SCALE ACCORDINGLY.

PROJECT MANAGER: RK  
 DESIGNED: RK/MF  
 DRAFTED: AS/MF/AF  
 CHECKED: RK

JOB NUMBER: 200509  
 SHEET NUMBER: W3 OF 3

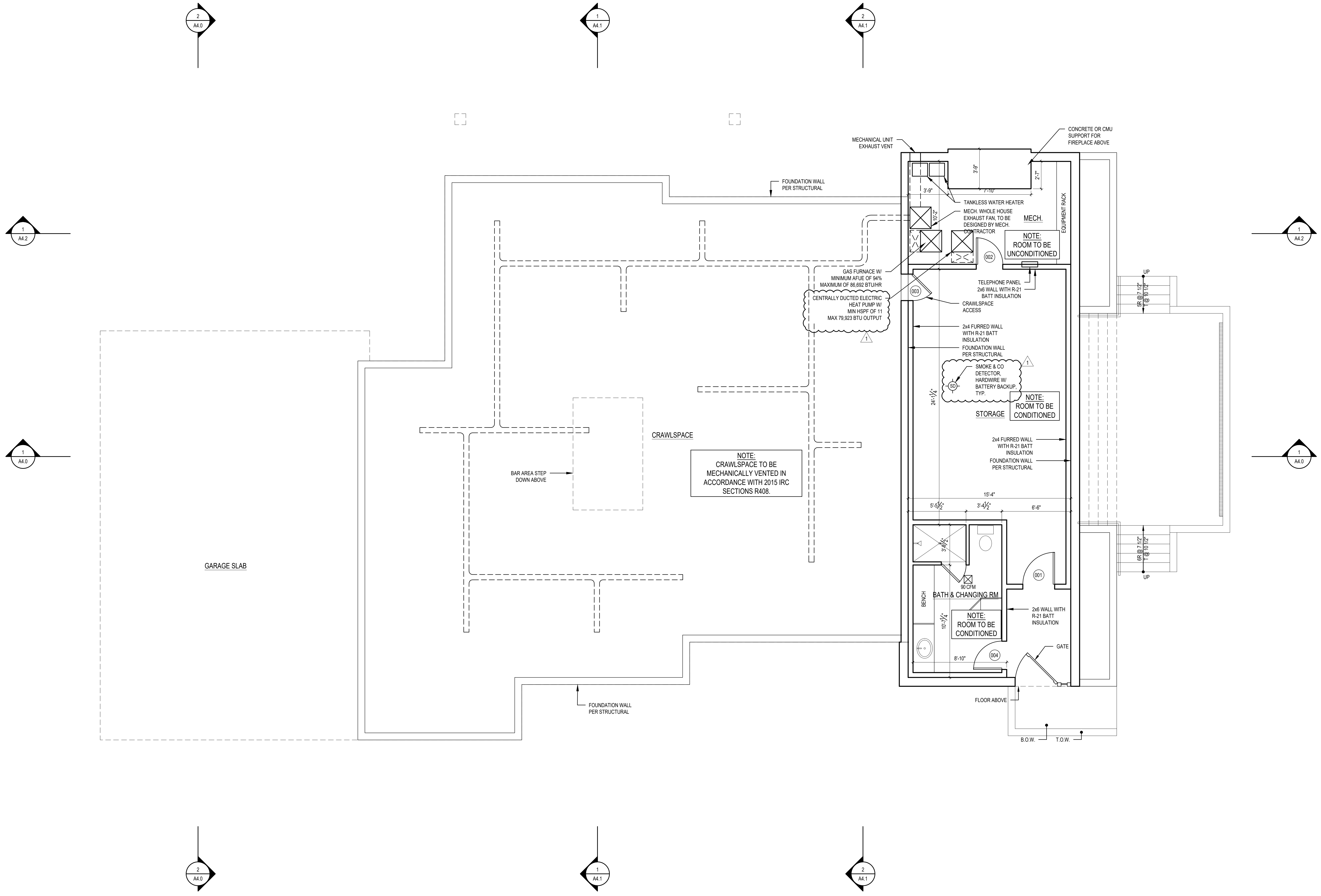
REVISIONS:	
▲	CORRECTION 1 2022.7-18
▲	
▲	
▲	
▲	

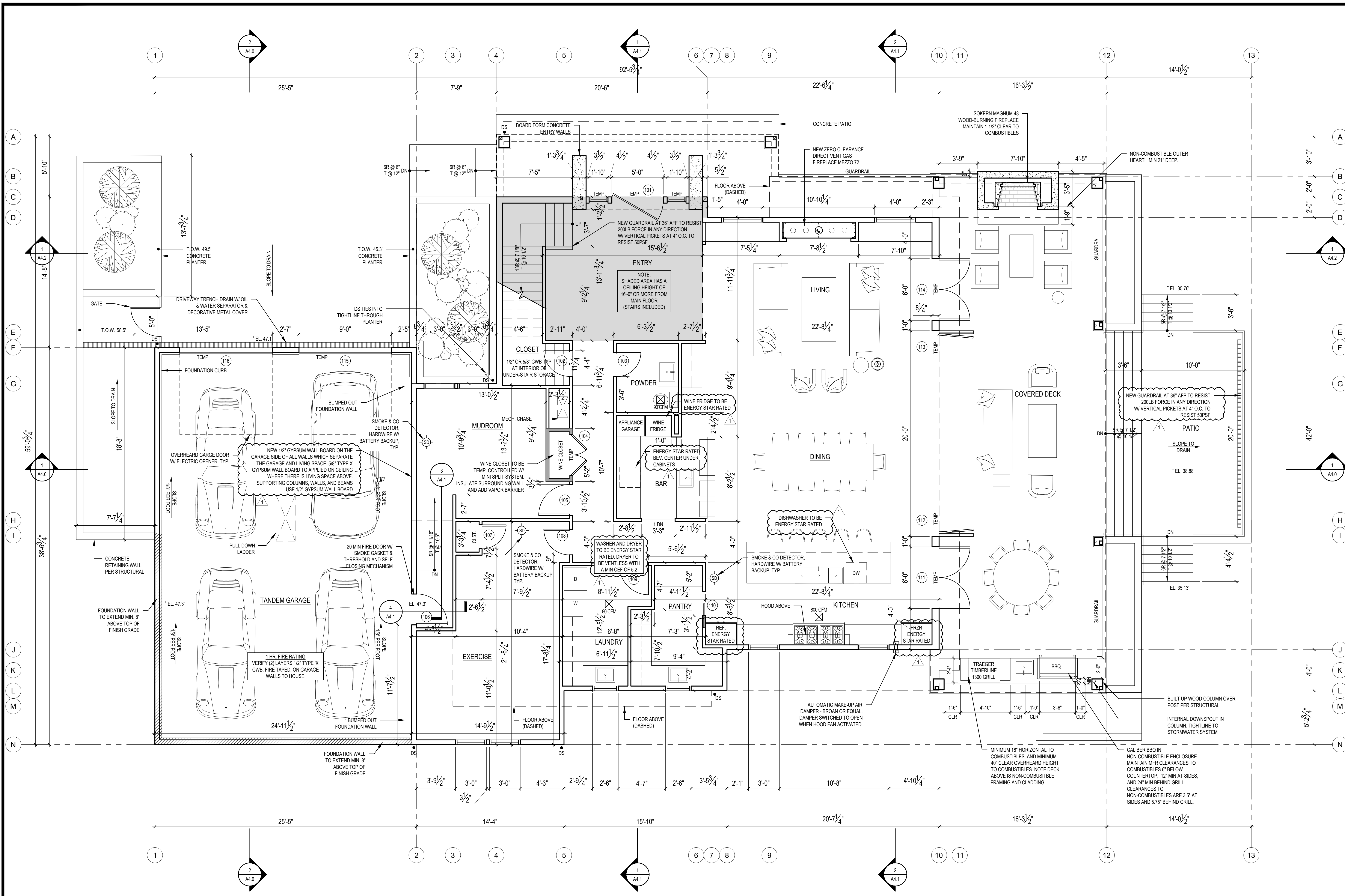
PLOT DATE: 8/8/2022  
 DRAWN BY: JM  
 CHECKED BY: BJS

SHEET  
**A2.0**

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 CORRECTION SET 8/8/2022

**1 LOWER FLOOR/CRAWLSPACE**  
 SCALE: 1/4" = 1'-0"





**1 MAIN FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

	BASEMENT	MAIN FLOOR	SECOND FLOOR	HEATED SUB-TOTAL	BASEMENT MECH/ENTRY	OUTDOOR ROOM	ATTACHED GARAGE	GRAND TOTAL
PROPOSED HOUSE SF:	498 SF	2,150 SF	2,252 SF	4,900 SF	179 SF	817 SF	923 SF	6,819 SF

SCALE: IF SHEET IS LESS THAN 24" x 36" IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET 8/8/2022

**STURMAN ARCHITECTS**  
REGISTERED ARCHITECT  
BRADLEY J. STURMAN  
STATE OF WASHINGTON  
www.sturmanarchitects.com  
All Rights Reserved © 2022

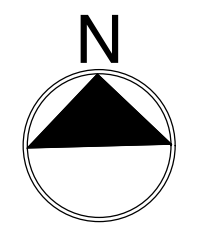
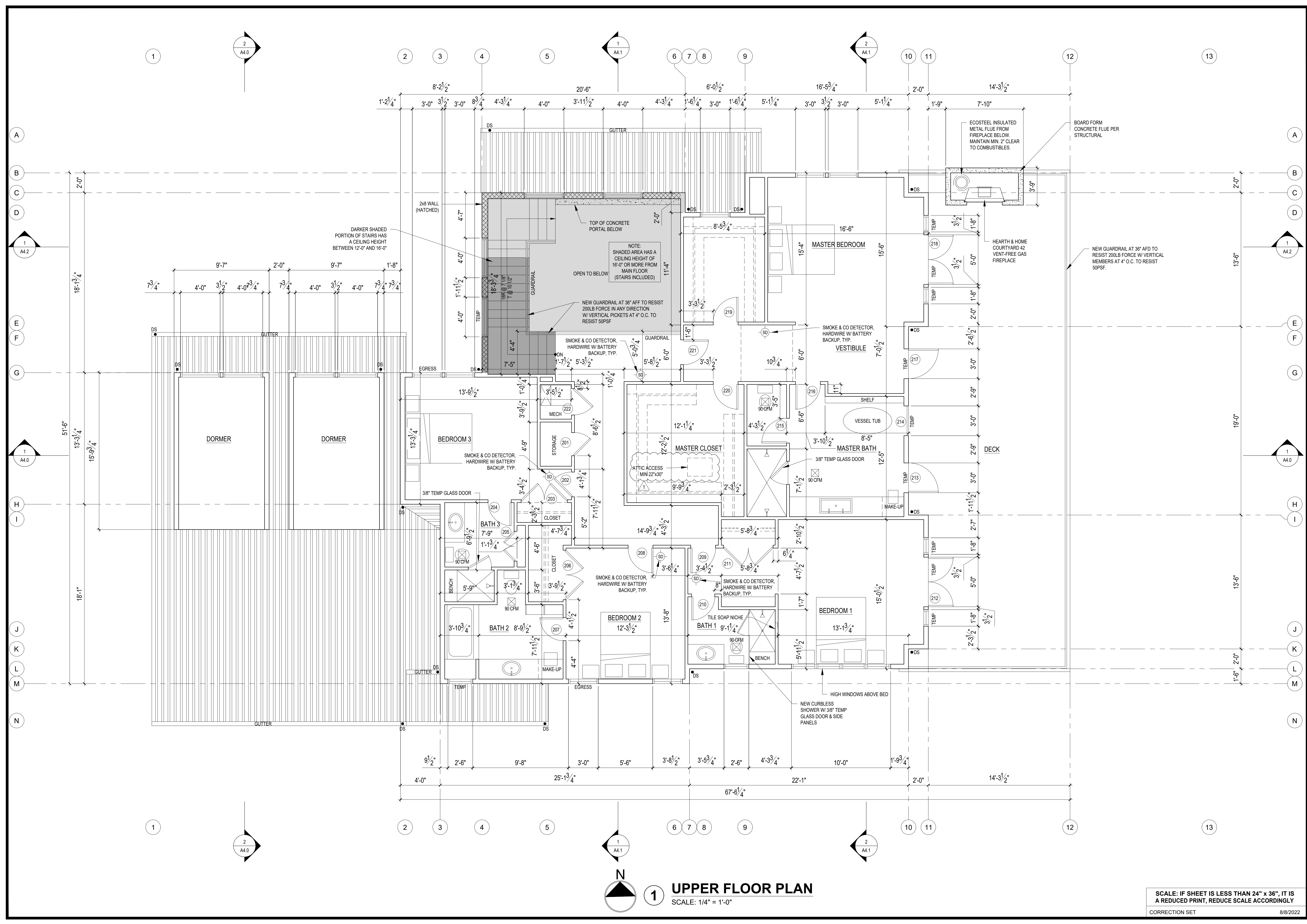
**4006 RESIDENCE**  
4006 E MERCER WAY  
MERCER ISLAND, WA 98040

**MAIN FLOOR PLAN**

REVISIONS:  
CORRECTION 1. 2022.7.18

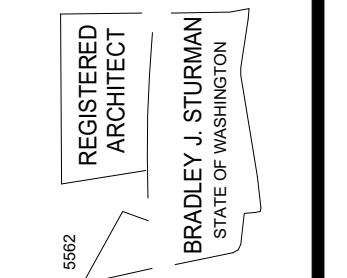
PLOT DATE: 8/8/2022  
DRAWN BY: JM  
CHECKED BY: BJS  
SHEET **A2.1**





**1 UPPER FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET 8/8/2022



www.sturmanarchitects.com  
All Rights Reserved  
© 2022

**4006 RESIDENCE**  
4006 E MERCER WAY  
MERCER ISLAND, WA 98040

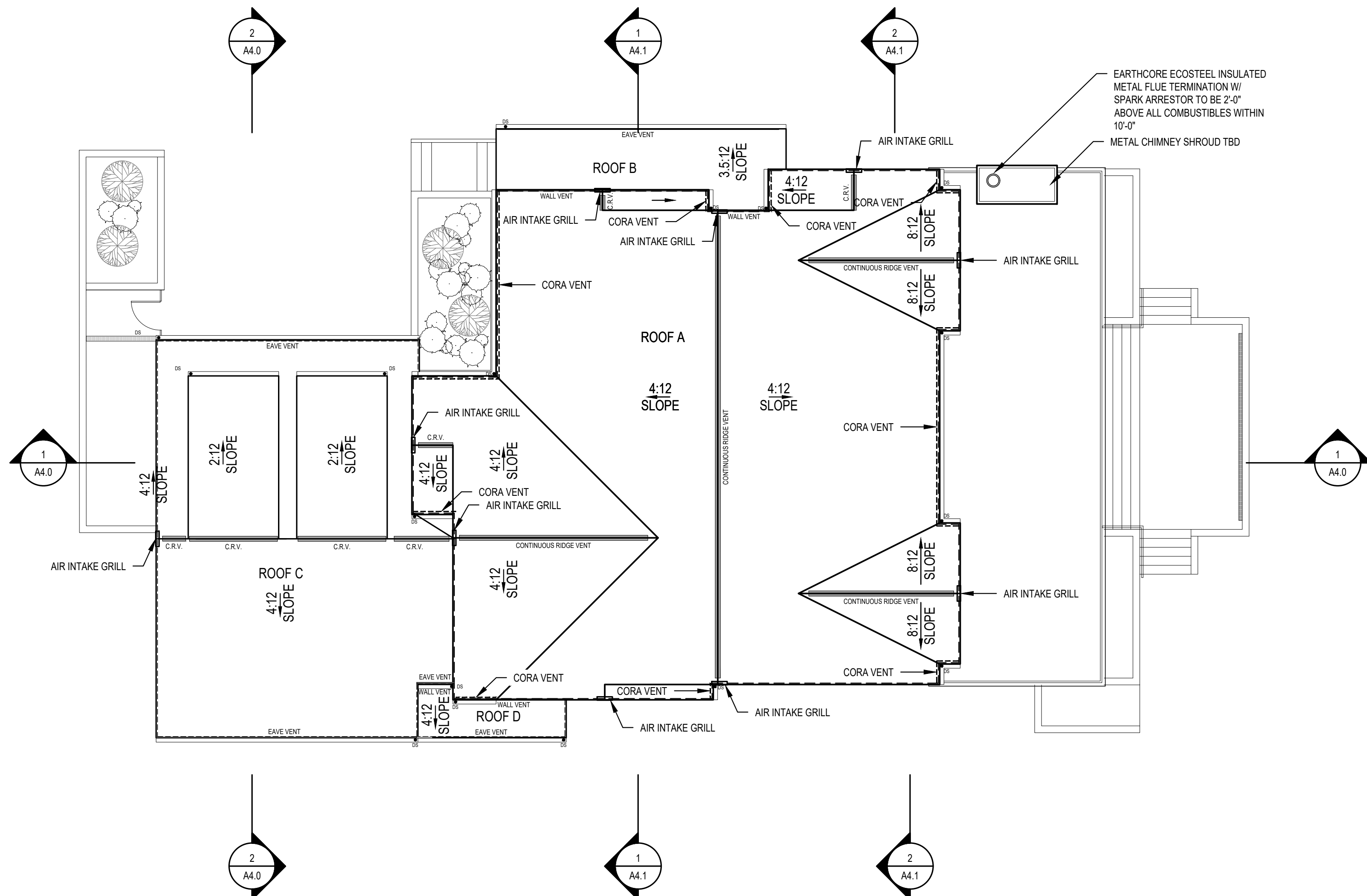
**UPPER FLOOR PLAN**

REVISIONS:

1	CORRECTION 1.1.2022.7-18
2	
3	
4	
5	
6	

PLOT DATE: 8/8/2022  
DRAWN BY: JM  
CHECKED BY: BJS

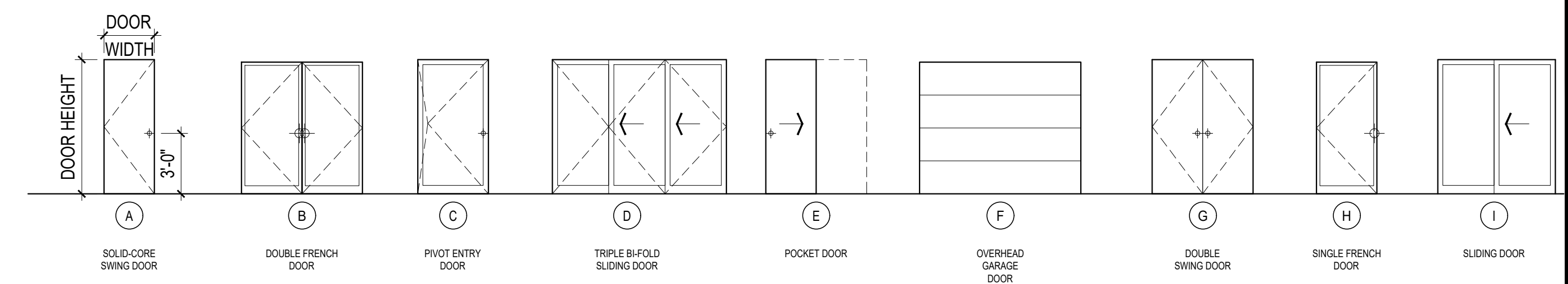
SHEET  
**A2.2**



**1 ROOF PLAN**  
SCALE: 1/8" = 1'-0"

CODE REQUIREMENT		CALCULATIONS										ACTUAL			
DESCRIPTION	SF AREA	REQ. VENTING PER SF AREA		VENT TYPE			VENT L.F. OR AMOUNT	=	TOTAL VENT AREA	SF CONVERT. 1/144	X	80% EFF FACTOR	TOTAL		
ROOF A	2,384	150	300	RIDGE	EAVE	LOUVRE	CORA VENT S-400	WALL							
				10 SQ. IN./FT.											
				1.5x1.0" VENT											
				12 SQ. IN./FT.											
				CONTINUOUS											
ROOF B	181	150	300	12x12 SQ. IN.											
				6.75 SQ. IN./FT.											
				CONTINUOUS											
				10 SQ. IN./FT.											
				1.5x1.0" VENT											
ROOF C	1,181	150	300	10 SQ. IN./FT.											
				1.5x1.0" VENT											
				12 SQ. IN./FT.											
				CONTINUOUS											
				6.75 SQ. IN./FT.											
ROOF D	61	150	300	10 SQ. IN./FT.											
				1.5x1.0" VENT											
				12 SQ. IN./FT.											
				CONTINUOUS											
				6.75 SQ. IN./FT.											

**DOOR TYPES:**

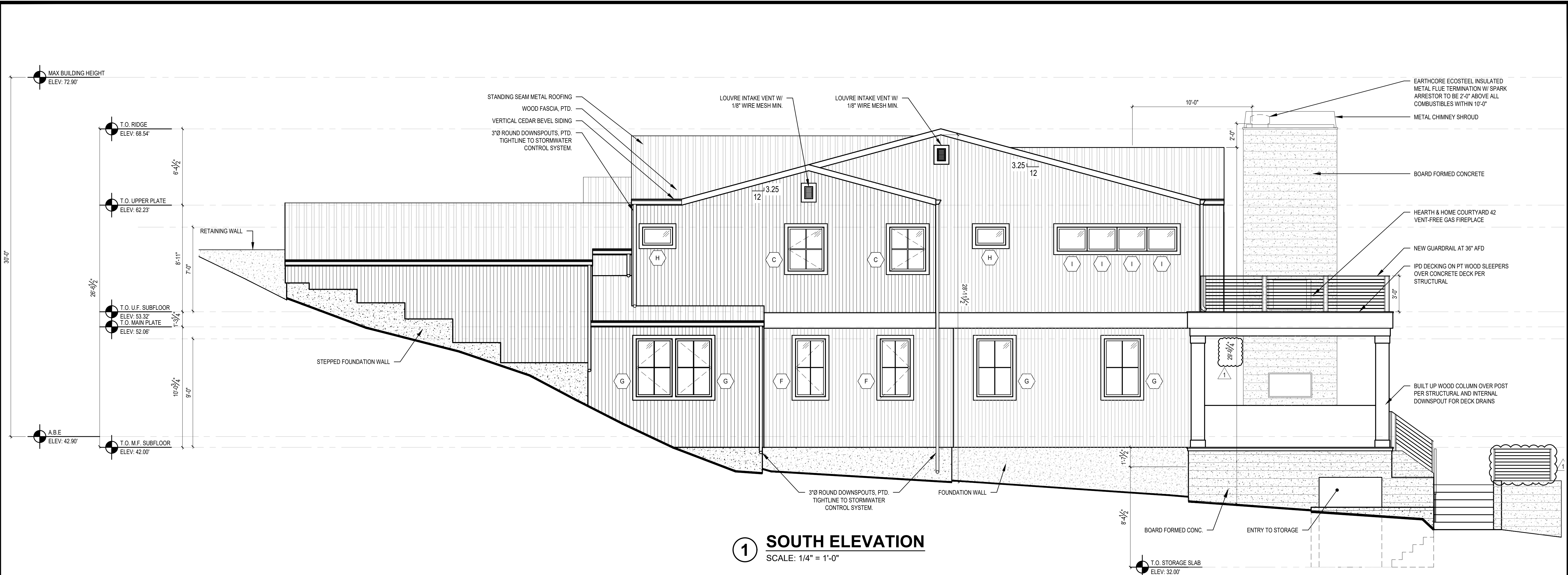


**DOOR SCHEDULE**

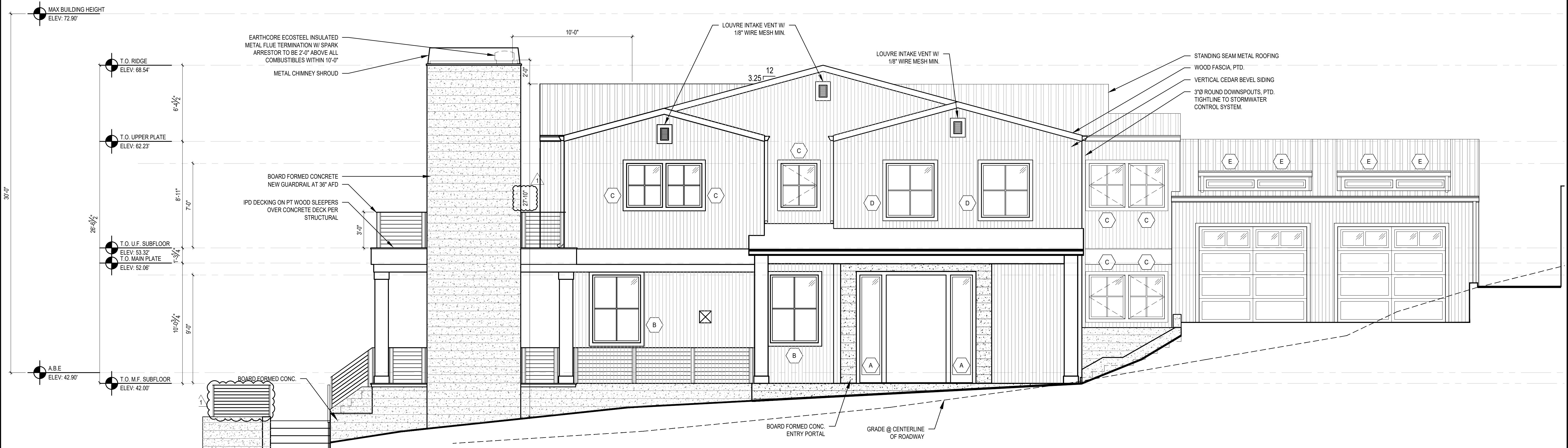
DOOR NO.	LOCATION	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	TEMP GLASS	DOOR FIN.	DOOR THK	U-VAL (MIN.)	NFRC CERT.	REMARKS
<b>LOWER FLOOR</b>										
001	STORAGE	3'-0"	7'-0"	A	-	-	1-3/4"	28	Y	
002	MECHANICAL	2'-6"	7'-0"	A	-	-	1-3/4"	28	Y	
003	CRAWLSPACE	2'-6"	4'-0"	A	-	-	1-3/4"	28	Y	CRAWLSPACE ACCESS
004	BATH & CHANGING ROOM	2'-8"	7'-0"	A	-	-	1-3/4"	28	Y	
<b>MAIN FLOOR</b>										
101	ENTRY	5'-0"	9'-0"	C	Y	-	1-3/4"	28	Y	
102	ENTRY CLOSET	2'-6"	7'-0"	A	-	-	1-3/4"	-	Y	
103	POWDER	2'-4"	7'-0"	A	-	-	1-3/4"	-	Y	
104	WINE CLOSET	4'-0"	7'-0"	G	-	-	1-3/4"	-	Y	
105	MUDROOM	2'-6"	7'-0"	A	Y	-	1-3/4"	-	Y	
106	GARAGE	3'-0"	7'-0"	A	-	-	1-3/4"	-	Y	
107	EXERCISE	2'-4"	7'-0"	A	-	-	1-3/4"	-	Y	
108	EXERCISE	2'-6"	7'-0"	A	-	-	1-3/4"	-	Y	
109	LAUNDRY	2'-10"	7'-0"	A	-	-	1-3/4"	-	Y	
110	PANTRY	2'-4"	7'-0"	E	-	-	1-3/4"	-	Y	
111	KITCHEN	6'-0"	9'-0"	B	Y	-	1-3/4"	28	Y	
112	DINING	10'-0"	9'-0"	D	Y	-	1-3/4"	28	Y	
113	DINING	10'-0"	9'-0"	D	Y	-	1-3/4"	28	Y	
114	LIVING	6'-0"	9'-0"	B	Y	-	1-3/4"	28	Y	
115	GARAGE	9'-0"	8'-0"	F	-	-	1-3/4"	-	Y	OVERHEAD DOOR
116	GARAGE	9'-0"	8'-0"	F	-	-	1-3/4"	-	Y	OVERHEAD DOOR
<b>UPPER FLOOR</b>										
201	HALLWAY	2'-4"	6'-8"	A	-	-	1-3/4"	-	Y	
202	BEDROOM 3	2'-6"	6'-8"	A	-	-	1-3/4"	-	Y	
203	BEDROOM 3	4'-8"	6'-8"	G	-	-	1-3/4"	-	Y	
204	BEDROOM 3 BATH	2'-4"	6'-8"	E	-	-	1-3/4"	-	Y	
205	BEDROOM 3 BATH	3'-0"	6'-8"	G	-	-	1-3/4"	-	Y	
206	BEDROOM 2	5'-0"	6'-8"	G	-	-	1-3/4"	-	Y	
207	BEDROOM 2	2'-4"	6'-8"	A	-	-	1-3/4"	-	Y	
208	BEDROOM 2	2'-6"	6'-8"	A	-	-	1-3/4"	-	Y	
209	BEDROOM 1	2'-6"	6'-8"	A	-	-	1-3/4"	-	Y	
210	BEDROOM 1	2'-4"	6'-8"	A	-	-	1-3/4"	-	Y	
211	BEDROOM 1	5'-0"	6'-8"	G	-	-	1-3/4"	-	Y	
212	BEDROOM 1	5'-0"	6'-8"	B	Y	-	1-3/4"	28	Y	
213	MASTER BATH	3'-0"	6'-8"	H	Y	-	1-3/4"	28	Y	
214	MASTER BATH	3'-0"	6'-8"	H	Y	-	1-3/4"	-	Y	NON OPERABLE
215	MASTER BATH	2'-4"	6'-8"	A	-	-	1-3/4"	-	Y	
216	MASTER BATH	2'-6"	6'-8"	A	-	-	1-3/4"	-	Y	
217	VESTIBULE	3'-0"	6'-8"	H	Y	-	1-3/4"	28	Y	
218	MASTER BEDROOM	5'-0"	6'-8"	B	Y	-	1-3/4"	28	Y	
219	MASTER CLOSET	2'-6"	6'-8"	A	-	-	1-3/4"	-	Y	
220	MASTER CLOSET	2'-6"	6'-8"	A	-	-	1-3/4"	-	Y	
221	VESTIBULE	2'-6"	6'-8"	A	-	-	1-3/4"	-	Y	
222	HALLWAY	2'-8"	6'-8"	A	-	-	1-3/4"	-	Y	

**WINDOW SCHEDULE**

WINDOW MARK	DESCRIPTION	R.O. SIZE WIDTH	HEIGHT	TEMP.	QTY.	TOTAL AREA (SF)	U-VALUE (MIN.)	NFRC CERT.	GLAZING	REMARKS & NOTES
A	FIXED	1'-10"	9'-0"	Y	2	33.0'	28	Y	LOW E / CLEAR	-
B	CASEMENT/FIXED CASEMENT	4'-0"	5'-8"	-	2	45.2'	28	Y	LOW E / CLEAR	EGRESS WINDOW IN SOME LOCATIONS
C	CASEMENT/FIXED CASEMENT	3'-8"	5'-0"	-	9	99.0'	28	Y	LOW E / CLEAR	EGRESS WINDOW IN SOME LOCATIONS
D	FIXED	4'-0"	4'-6"	Y	4	72.0'	28	Y	LOW E / CLEAR	-
E	FIXED	4'-0"	1'-0"	-	4	16.0'	28	Y	LOW E / CLEAR	-
F	CASEMENT	2'-6"	4'-10"	Y	2	24.0'	28	Y	LOW E / CLEAR	EGRESS
G	CASEMENT/FIXED	3'-0"	4'-10"	-	4	58.0'	28	Y	LOW E / CLEAR	EGRESS WINDOW IN SOME LOCATIONS
H	FIXED	2'-6"	1'-6"	-	2	7.5'	28	Y	LOW E / CLEAR	-
I	FIXED	2'-6"	2'-0"	-	4	20.0'	28	Y	LOW E / CLEAR	-
J	FIXED	1'-8"	1'-0"	-	4	6.7'	28	Y	LOW E / CLEAR	-
K	FIXED	5'-0"	1'-8"	-	2	16.6'	28	Y	LOW E / CLEAR	-
L	FIXED	1'-8"	6'-8"	Y	4	44.4'	28	Y	LOW E / CLEAR	-



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



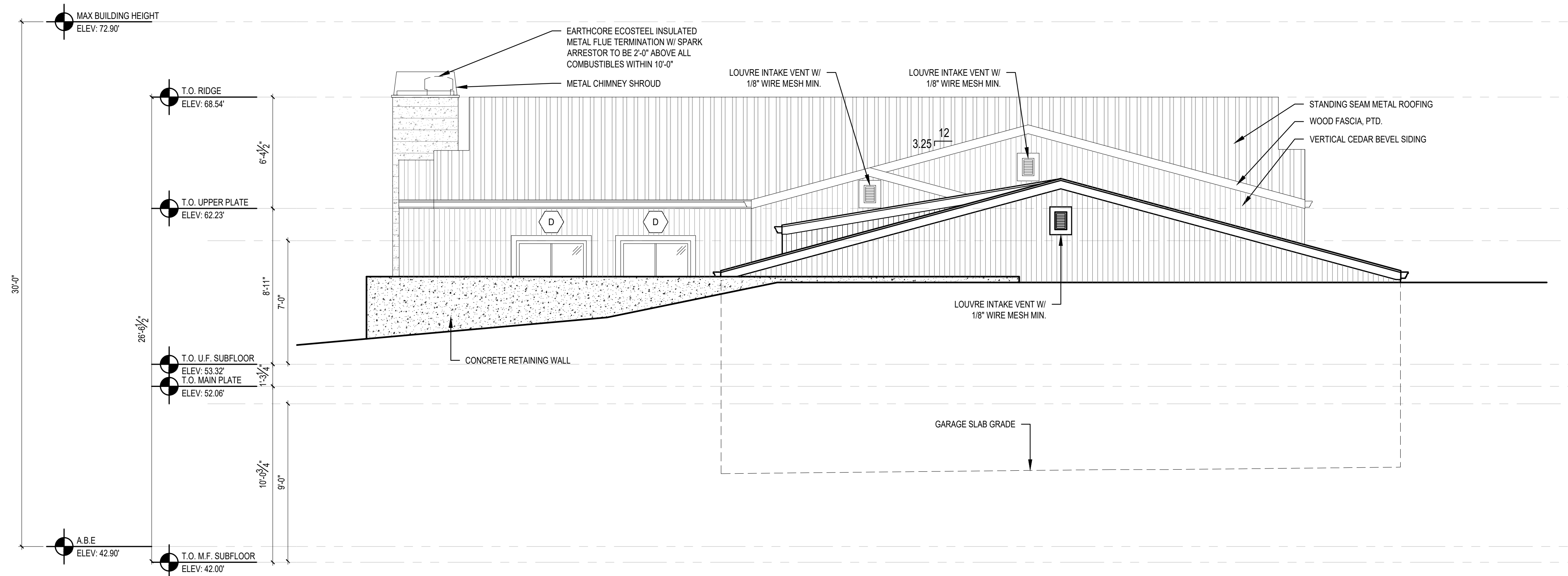
**2 NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"

**STURMAN ARCHITECTS**  
 REGISTERED ARCHITECT  
 BRADLEY J. STURMAN  
 STATE OF WASHINGTON  
 www.sturmanarchitects.com  
 All Rights Reserved  
 © 2021  
**MOUNGER REMODEL**  
 4006 E MERCER WAY  
 MERCER ISLAND, WA 98040

**EXTERIOR ELEVATIONS**  
 REVISIONS:  
 PLOT DATE: 8/8/2022  
 DRAWN BY: JM  
 CHECKED BY: BJS  
 SHEET  
**A3.0**  
 SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 PERMIT SET 5/2/2022



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



**2 WEST ELEVATION**  
SCALE: 1/4" = 1'-0"

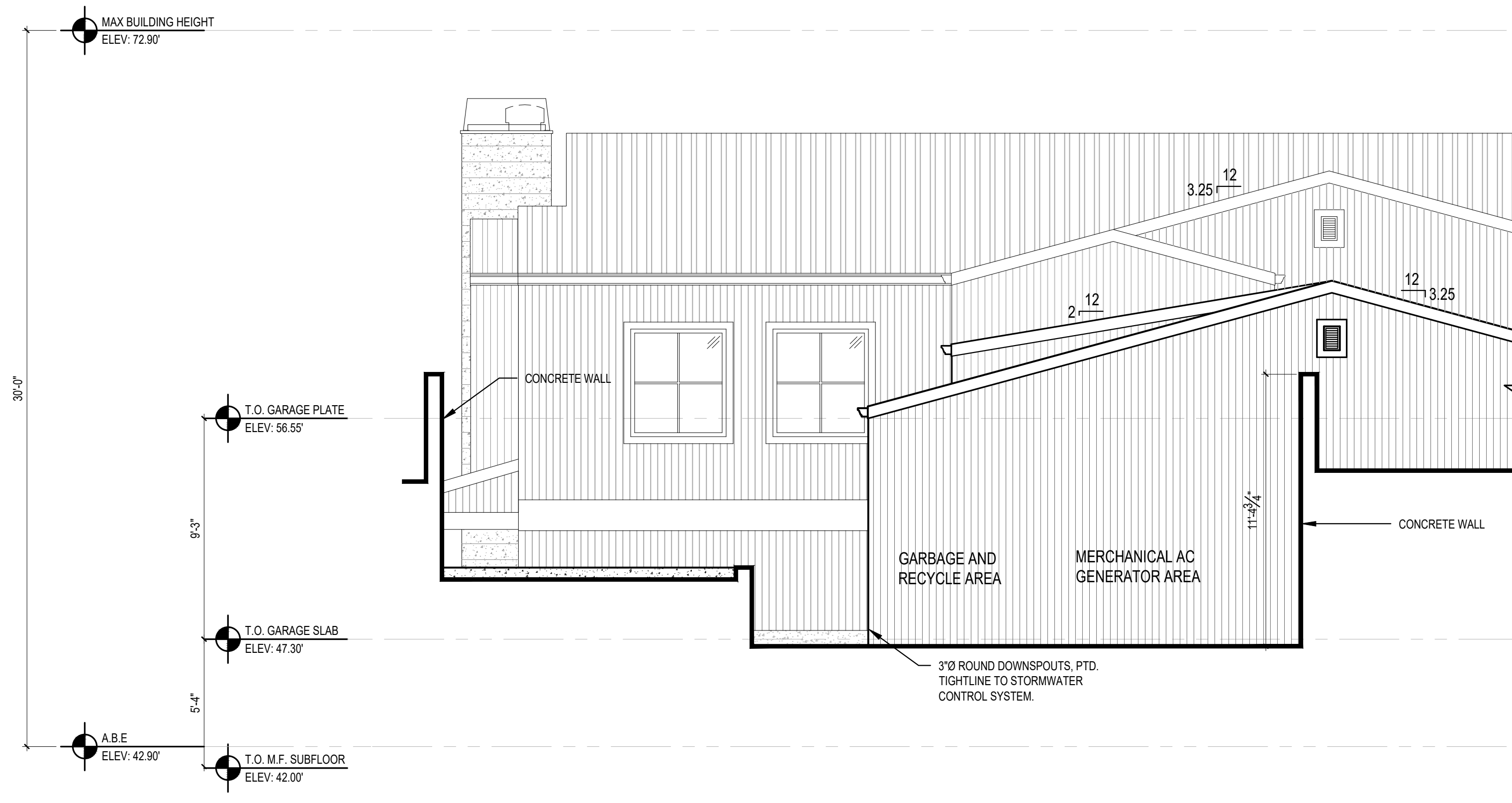
NO.	DATE	DESCRIPTION

REVISIONS:

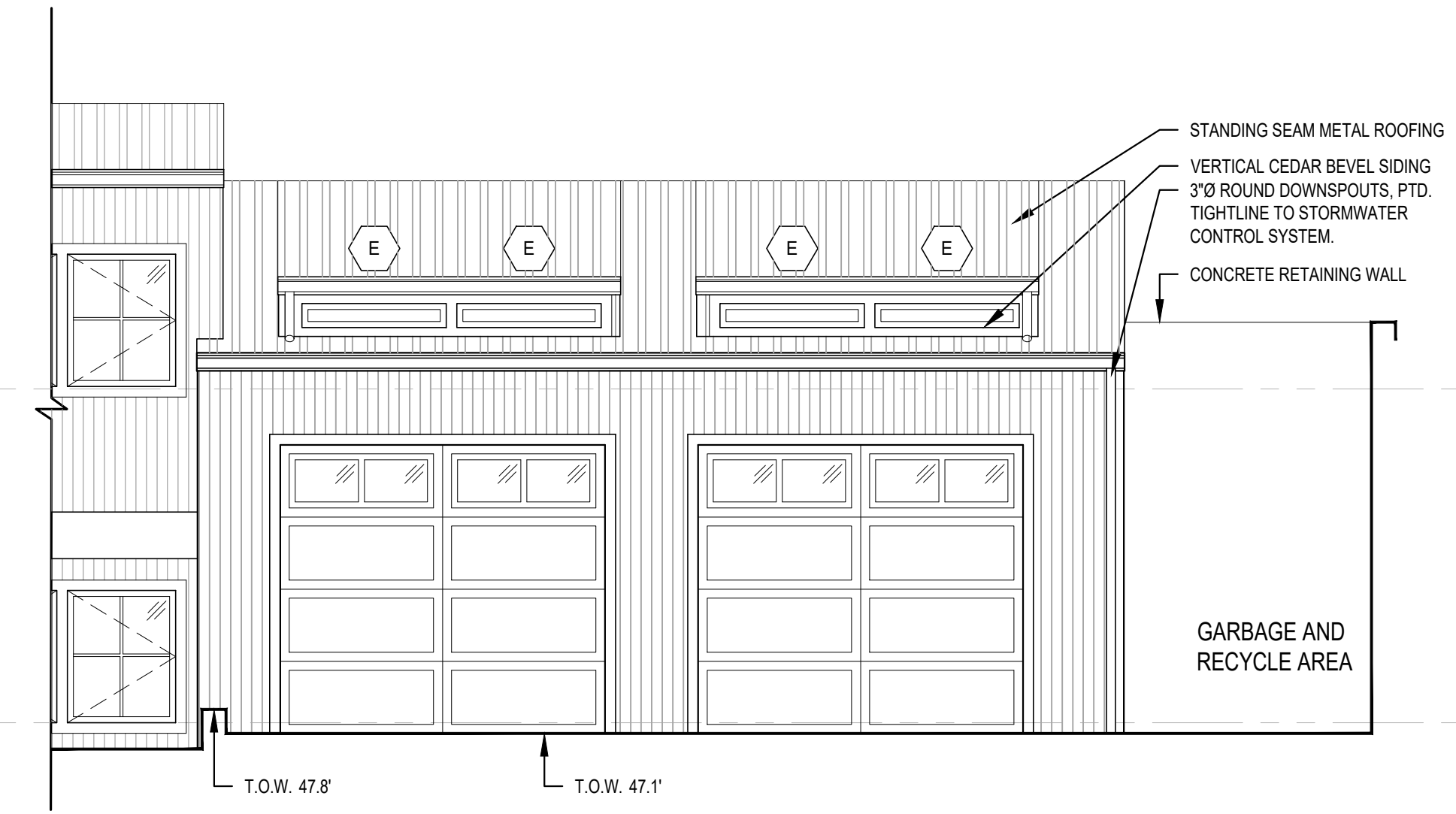
PLOT DATE: 8/8/2022

DRAWN BY: JM

CHECKED BY: BJS



**1** GARAGE AND GARBAGE/RECYCLING AREA  
**WEST ELEVATION**  
 SCALE: 1/4" = 1'-0"



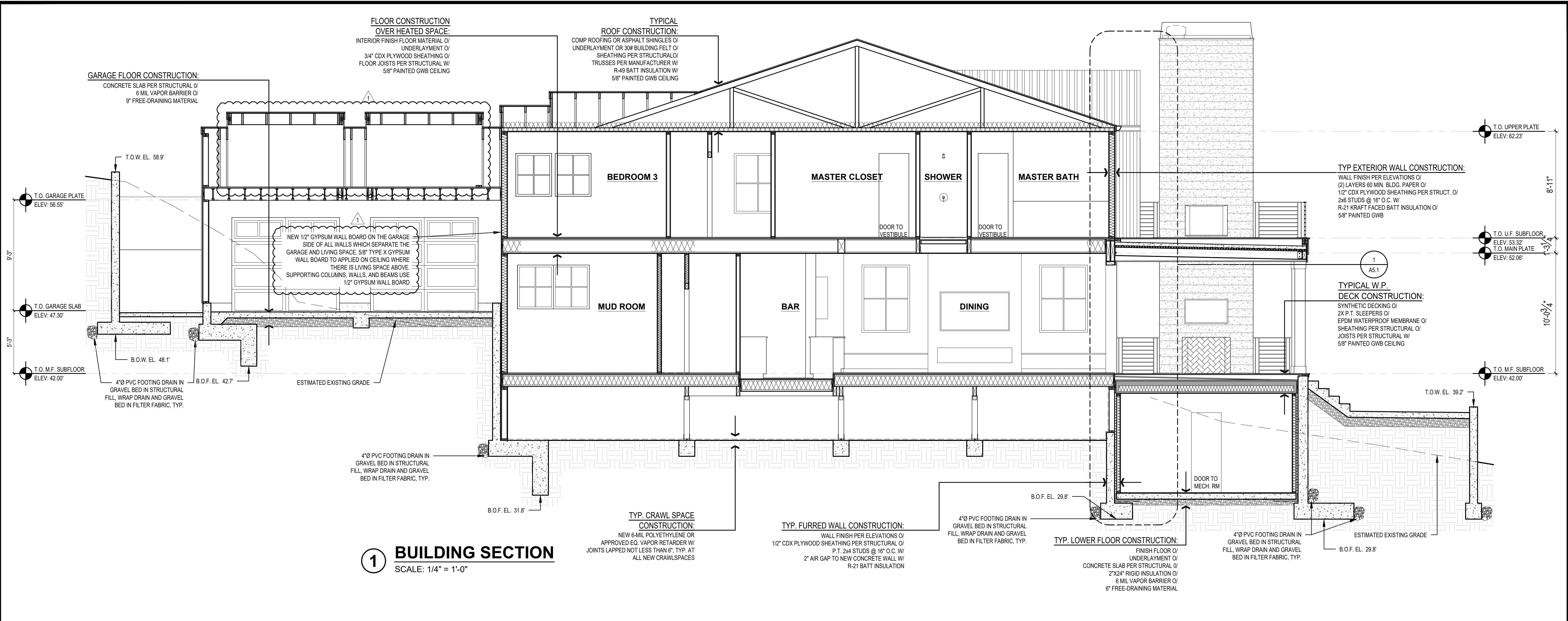
**2** GARAGE AND GARBAGE/RECYCLING AREA  
**NORTH ELEVATION**  
 SCALE: 1/4" = 1'-0"

REVISIONS:

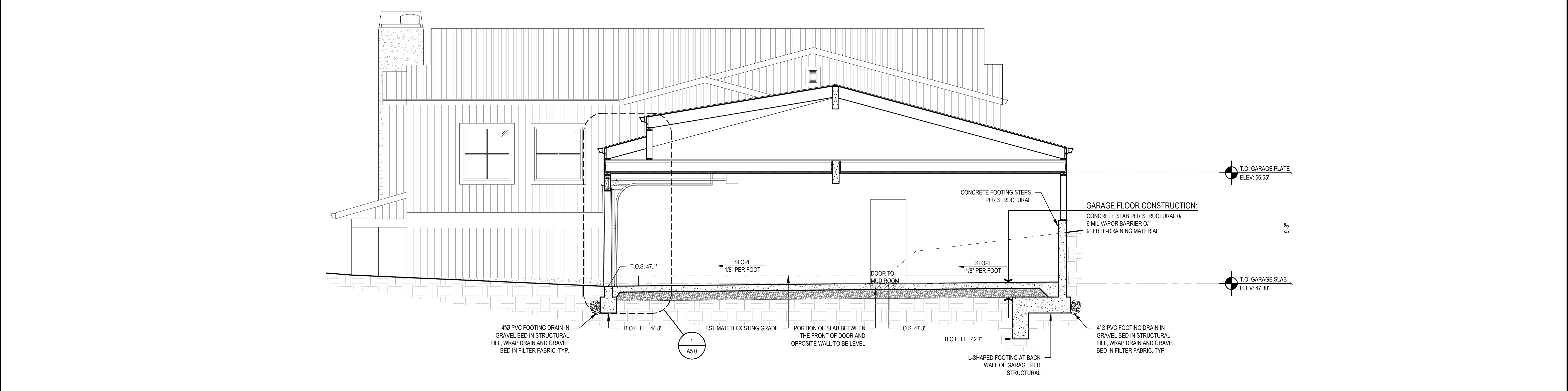

PLOT DATE: 8/8/2022  
 DRAWN BY: JM  
 CHECKED BY: BJS

SHEET  
**A3.2**

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 PERMIT SET 5/2/2022



**1 BUILDING SECTION**  
SCALE: 1/4" = 1'-0"

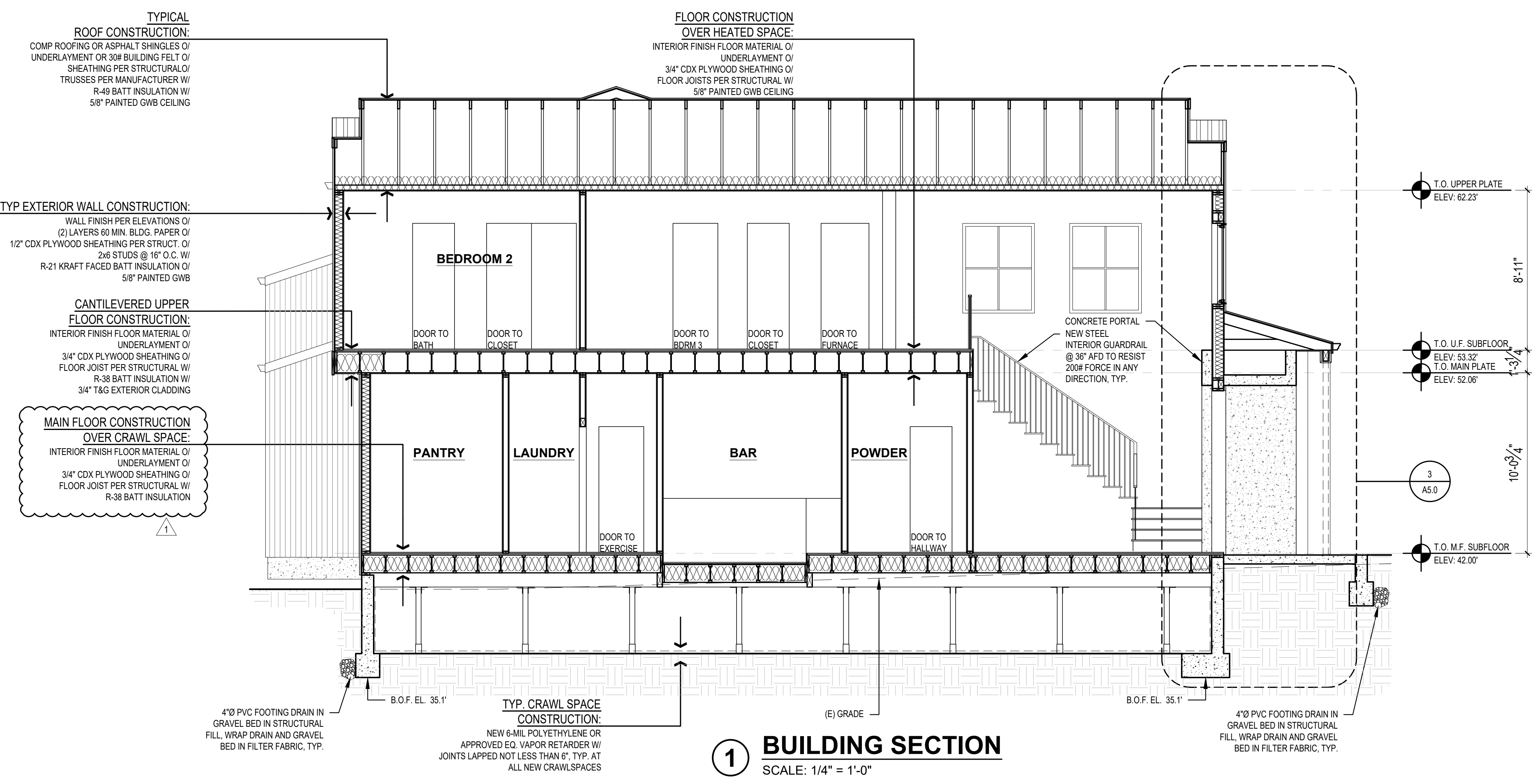


**2 BUILDING SECTION**  
SCALE: 1/4" = 1'-0"

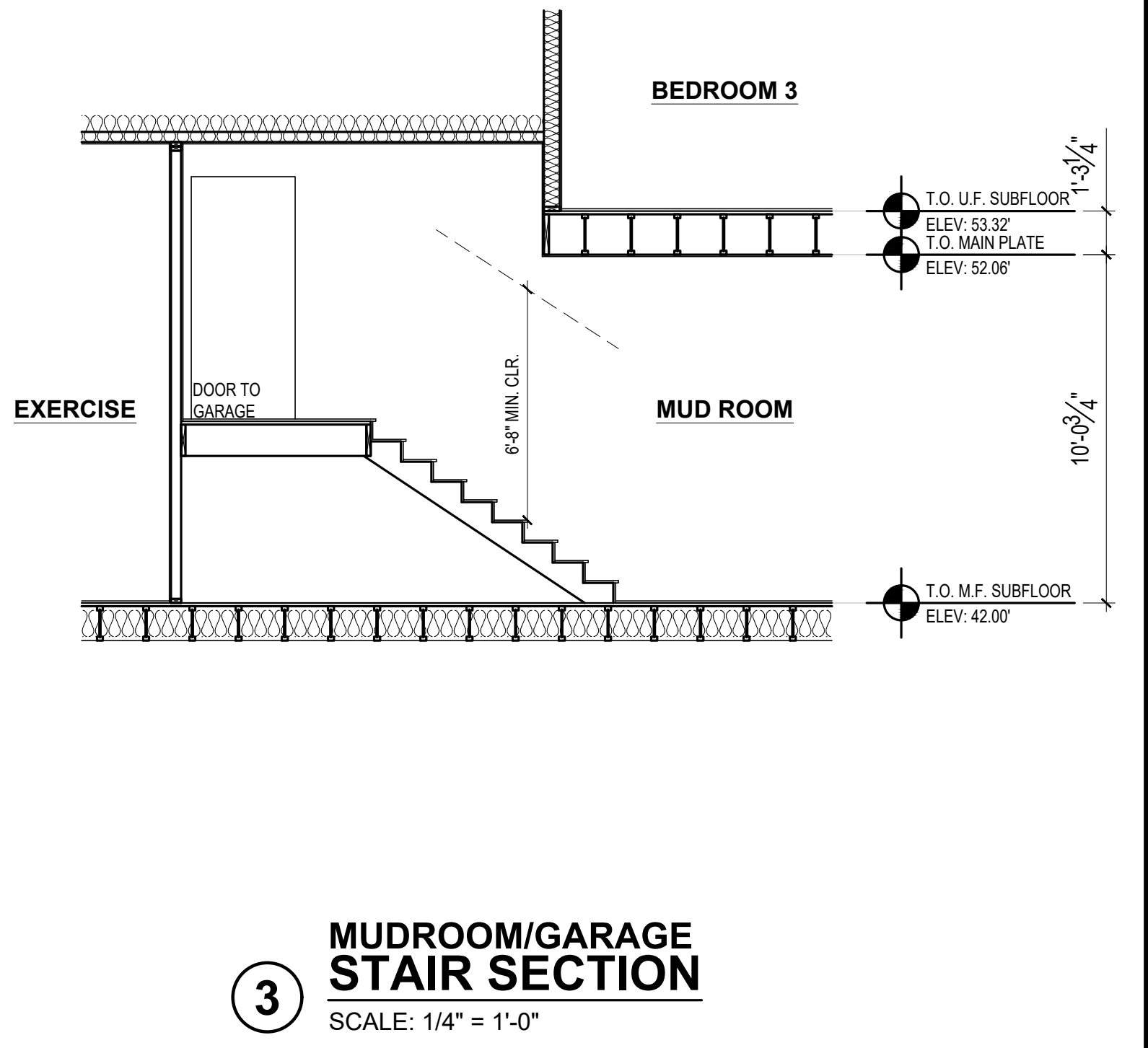
REVISIONS:


PLOT DATE: 8/8/2022  
DRAWN BY: JM  
CHECKED BY: BJS  
SHEET

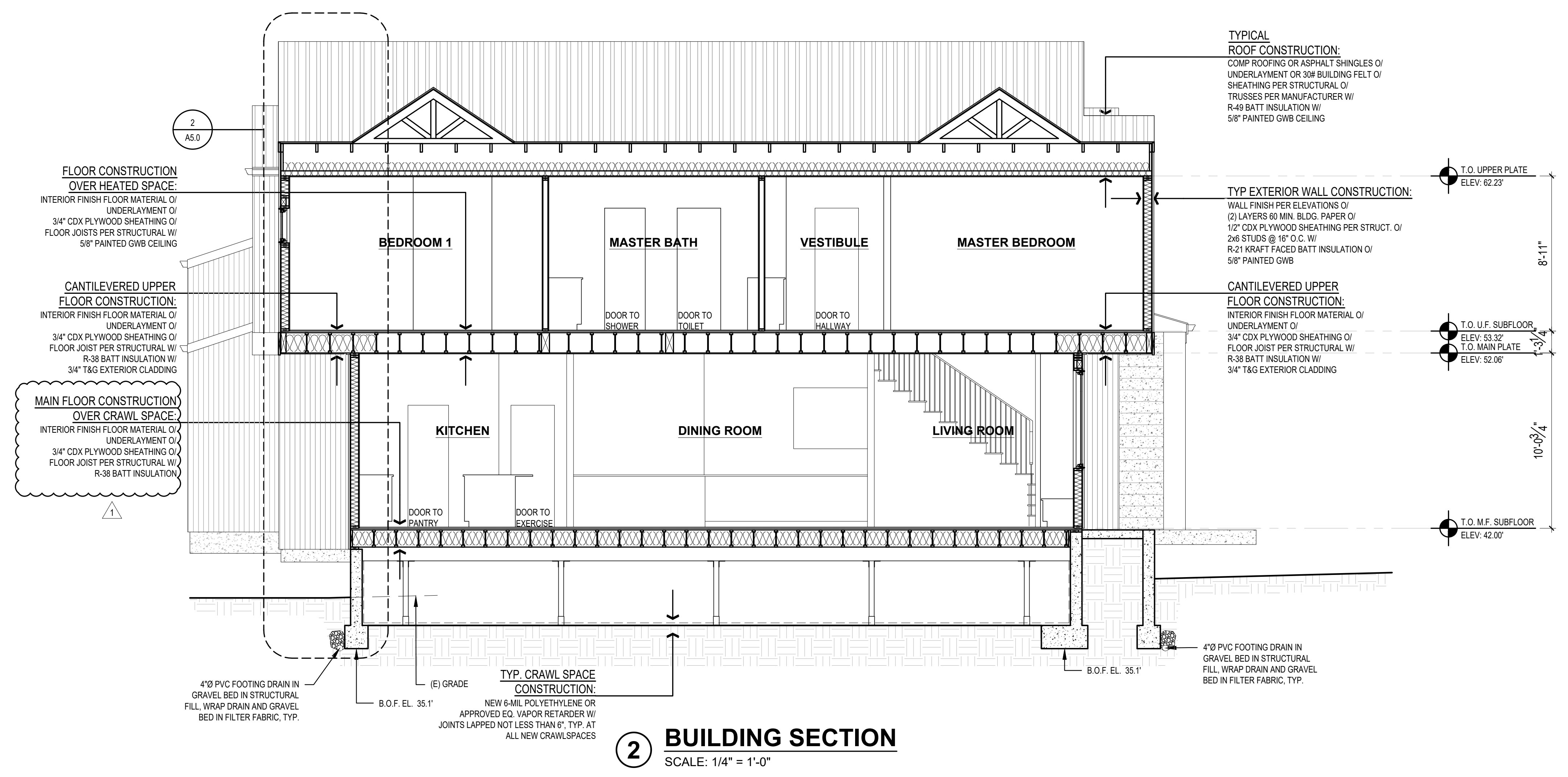
REVISIONS:	
▲	
▲	
▲	
▲	
PLOT DATE:	8/8/2022
DRAWN BY:	JM
CHECKED BY:	BJS
SHEET	



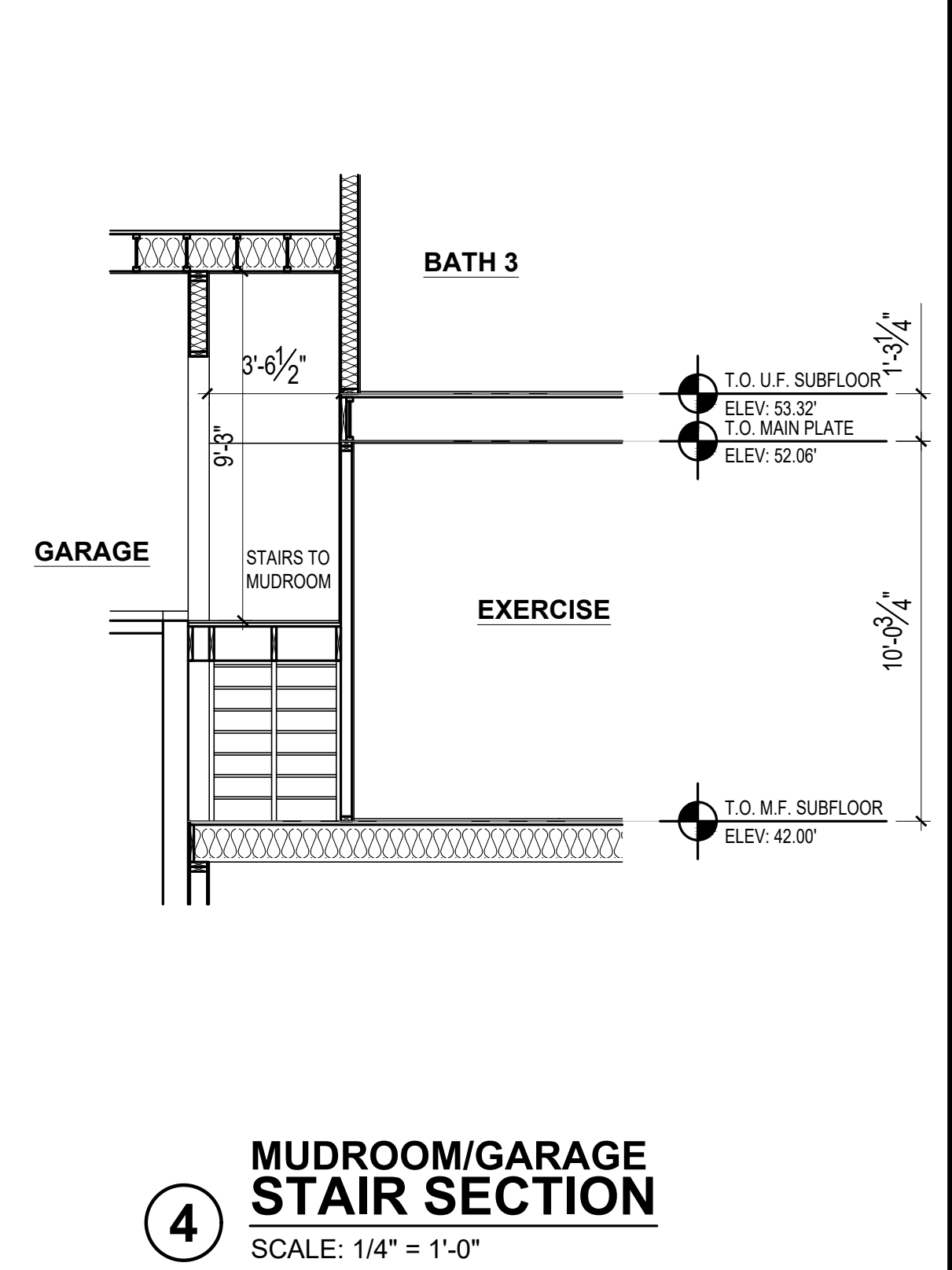
**1 BUILDING SECTION**  
 SCALE: 1/4" = 1'-0"



**3 MUDROOM/GARAGE STAIR SECTION**  
 SCALE: 1/4" = 1'-0"

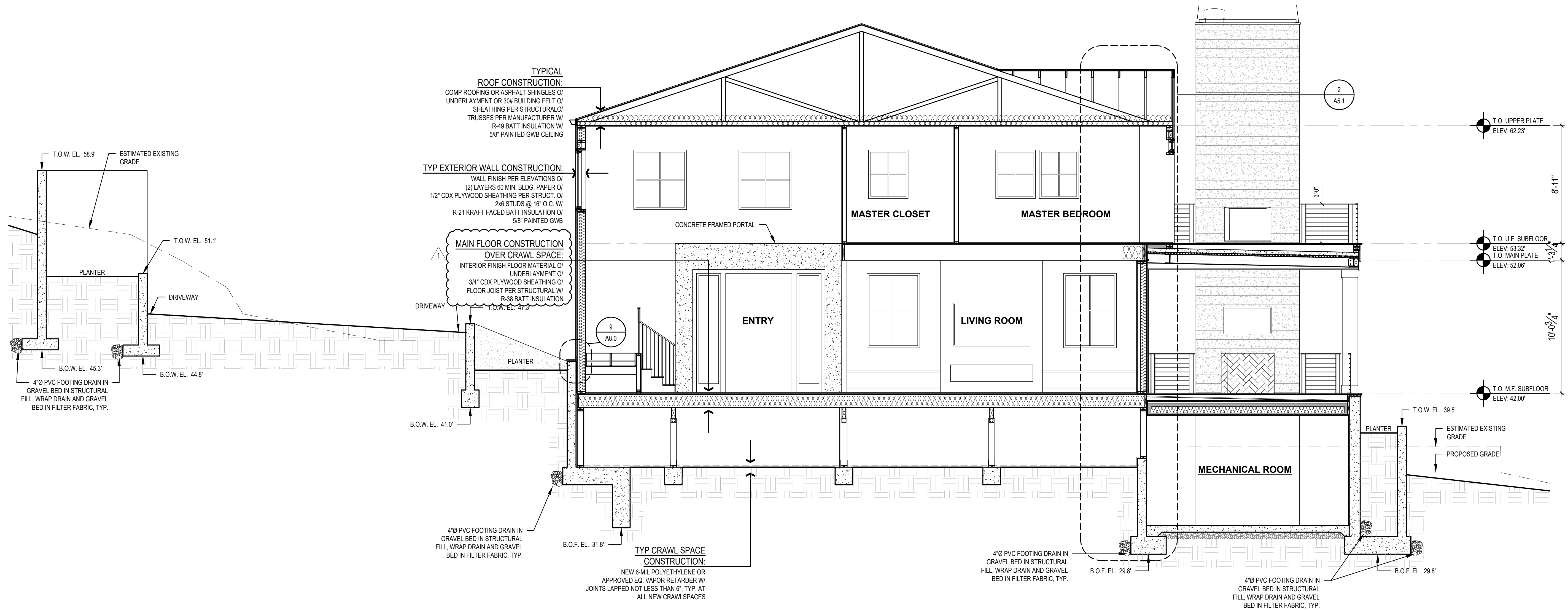


**2 BUILDING SECTION**  
 SCALE: 1/4" = 1'-0"



**4 MUDROOM/GARAGE STAIR SECTION**  
 SCALE: 1/4" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36" IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 PERMIT SET 5/2/2022



**1 BUILDING SECTION**  
 SCALE: 1/4" = 1'-0"

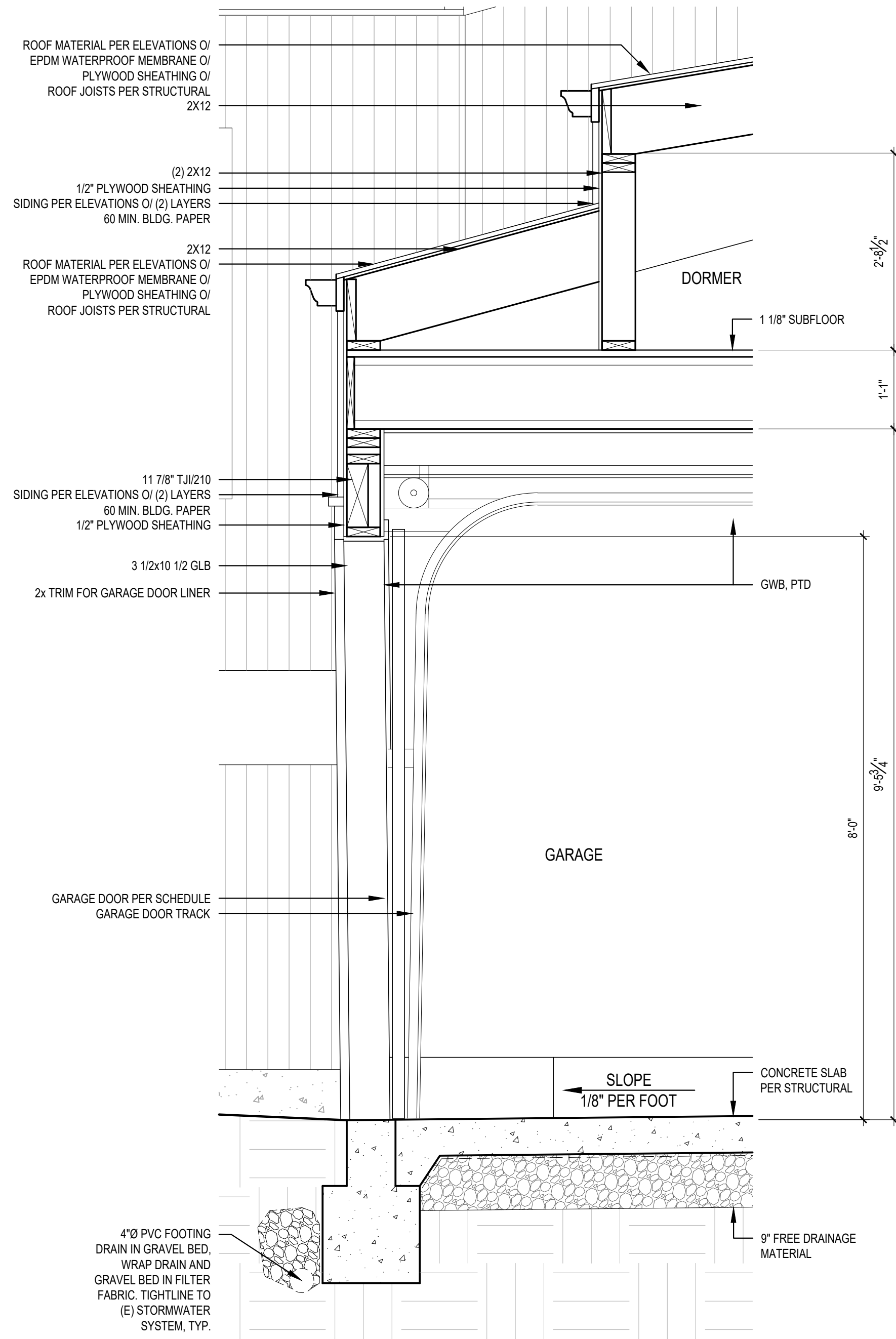
NO.	DATE	DESCRIPTION

PLOT DATE: 8/8/2022  
 DRAWN BY: JM  
 CHECKED BY: BJS

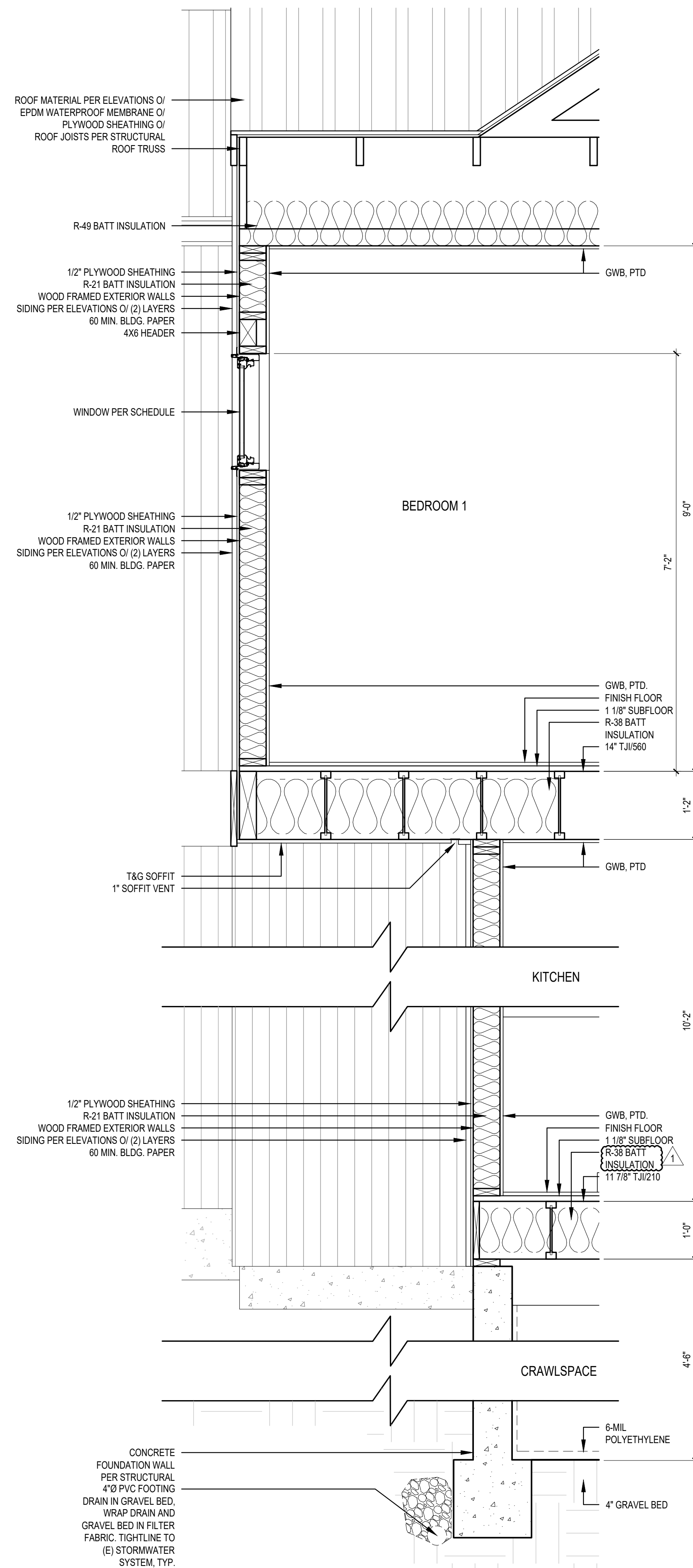
SHEET  
**A4.2**

SCALE: IF SHEET IS LESS THAN 24" x 36" IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 PERMIT SET 5/2/2022

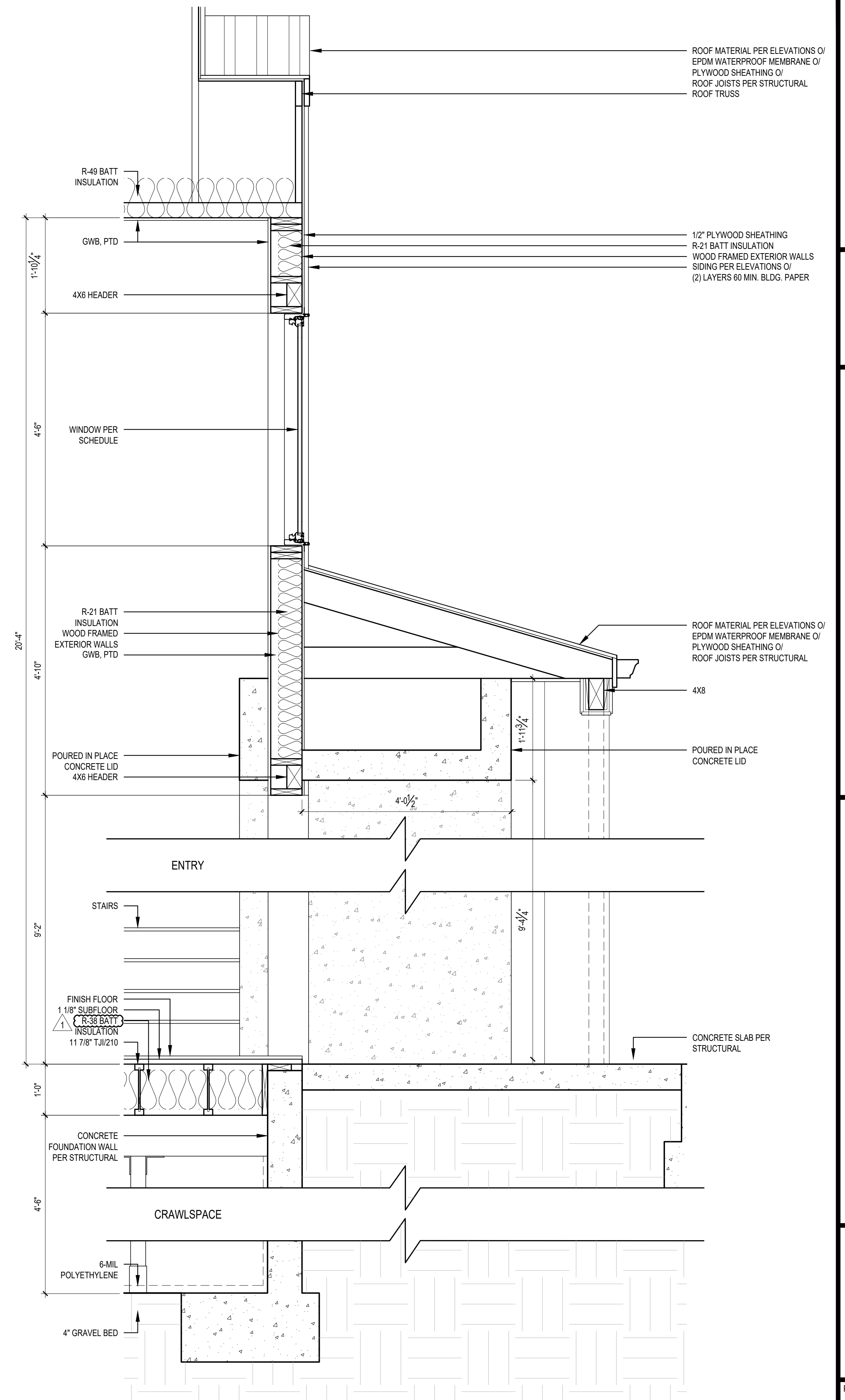




**1 WALL SECTION**  
SCALE: 3/4" = 1'-0"



**2 WALL SECTION**  
SCALE: 3/4" = 1'-0"



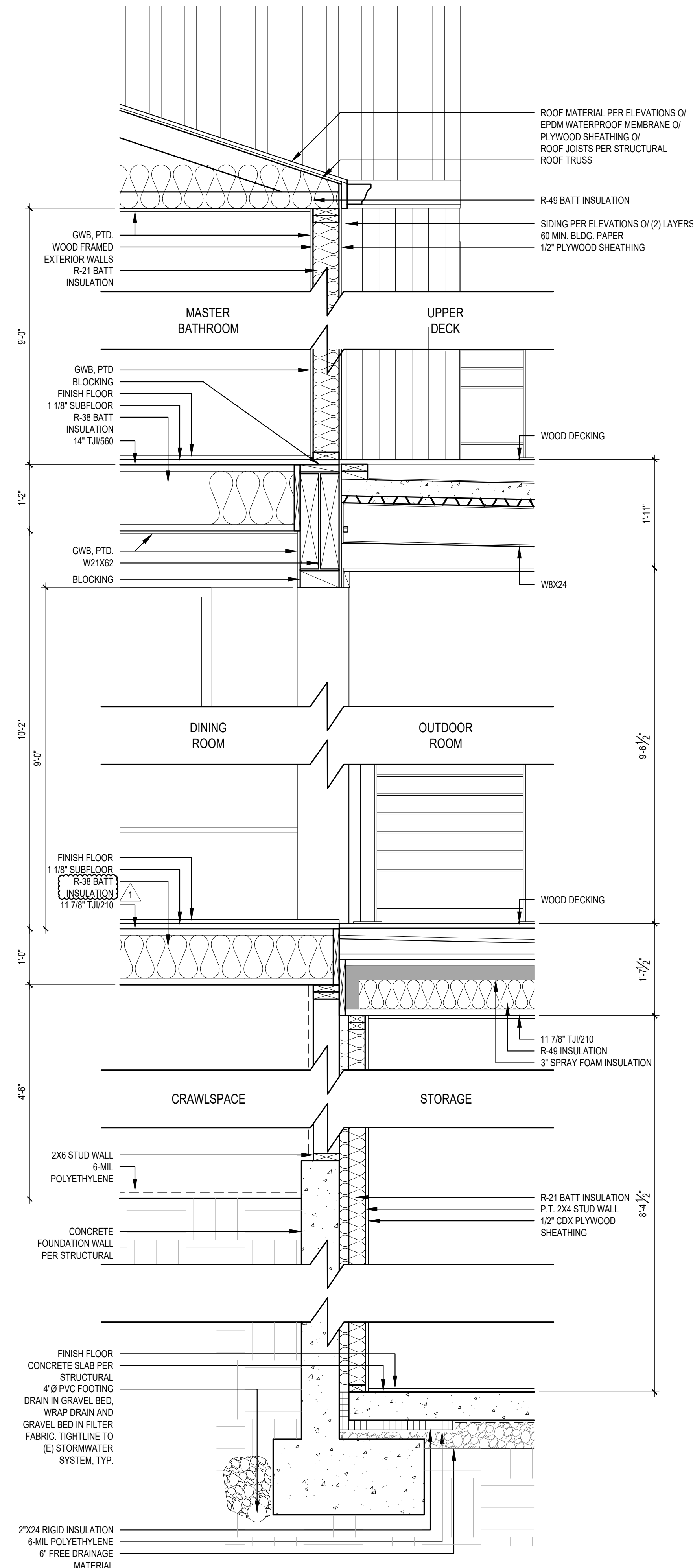
**3 WALL SECTION**  
SCALE: 3/4" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET 8/8/2022

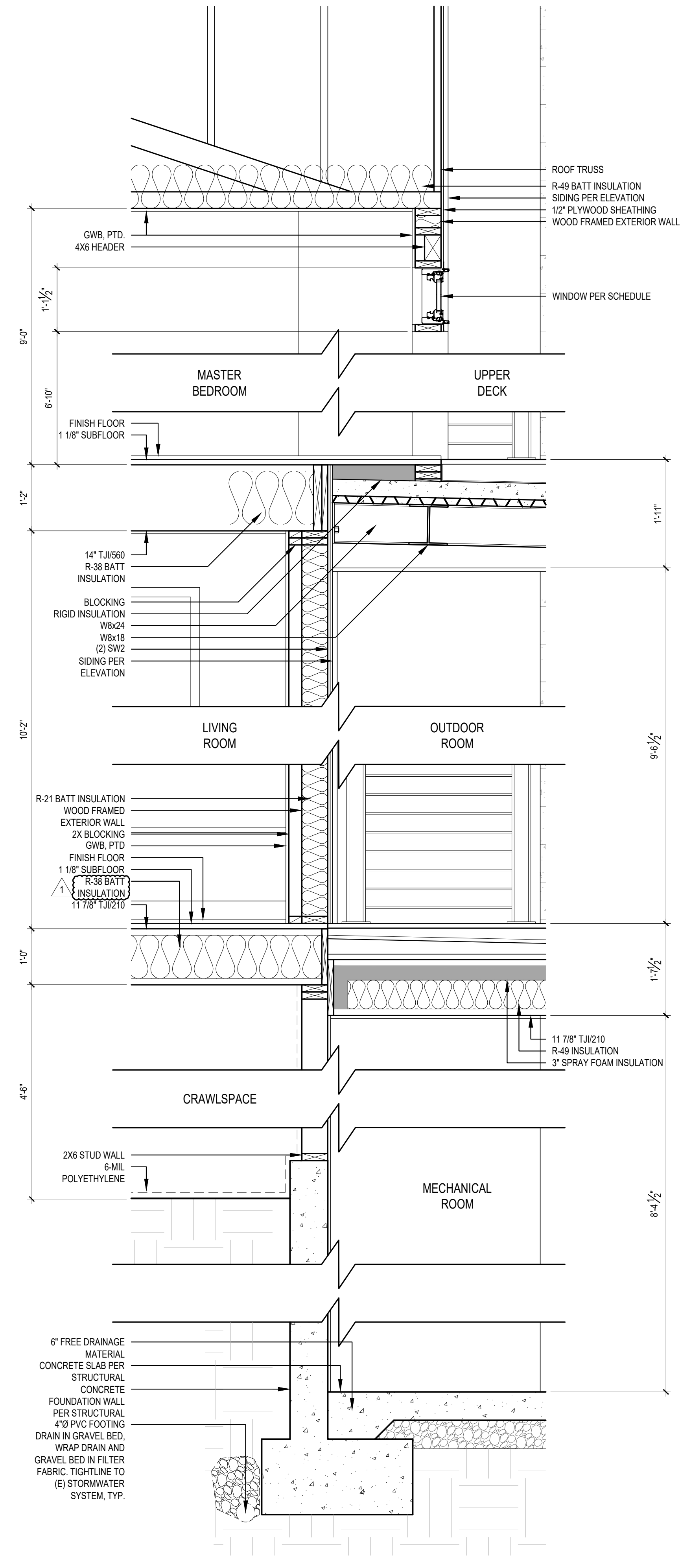
REVISIONS:	
△	CORRECTION 1 2022-7-18
△	
△	
△	
△	

PLOT DATE: 8/8/2022  
DRAWN BY: JM  
CHECKED BY: BJS

SHEET  
**A5.0**



**1 WALL SECTION**  
SCALE: 3/4" = 1'-0"



**2 WALL SECTION**  
SCALE: 3/4" = 1'-0"

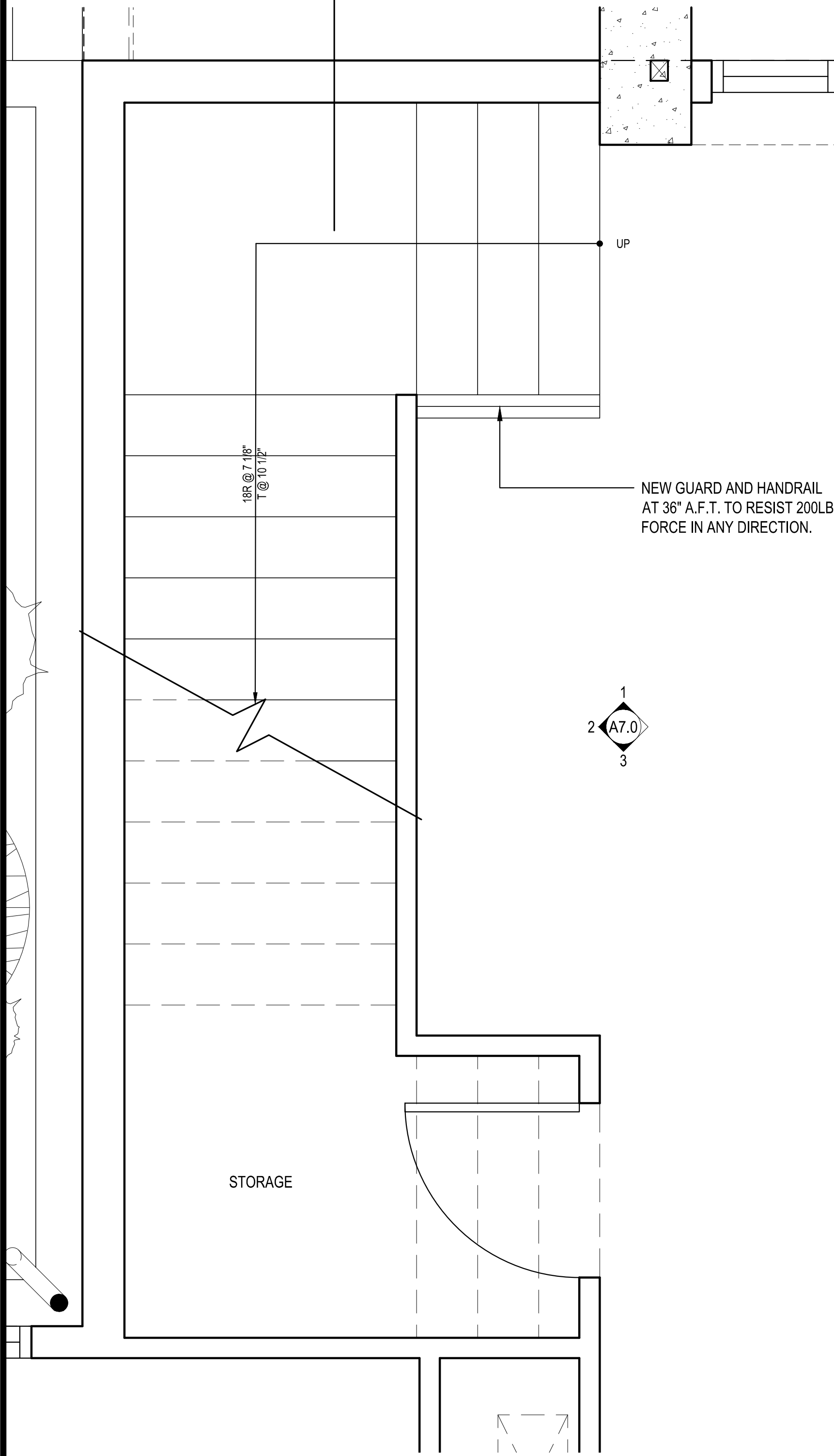
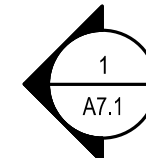
SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS  
A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET 8/8/2022

REVISIONS:

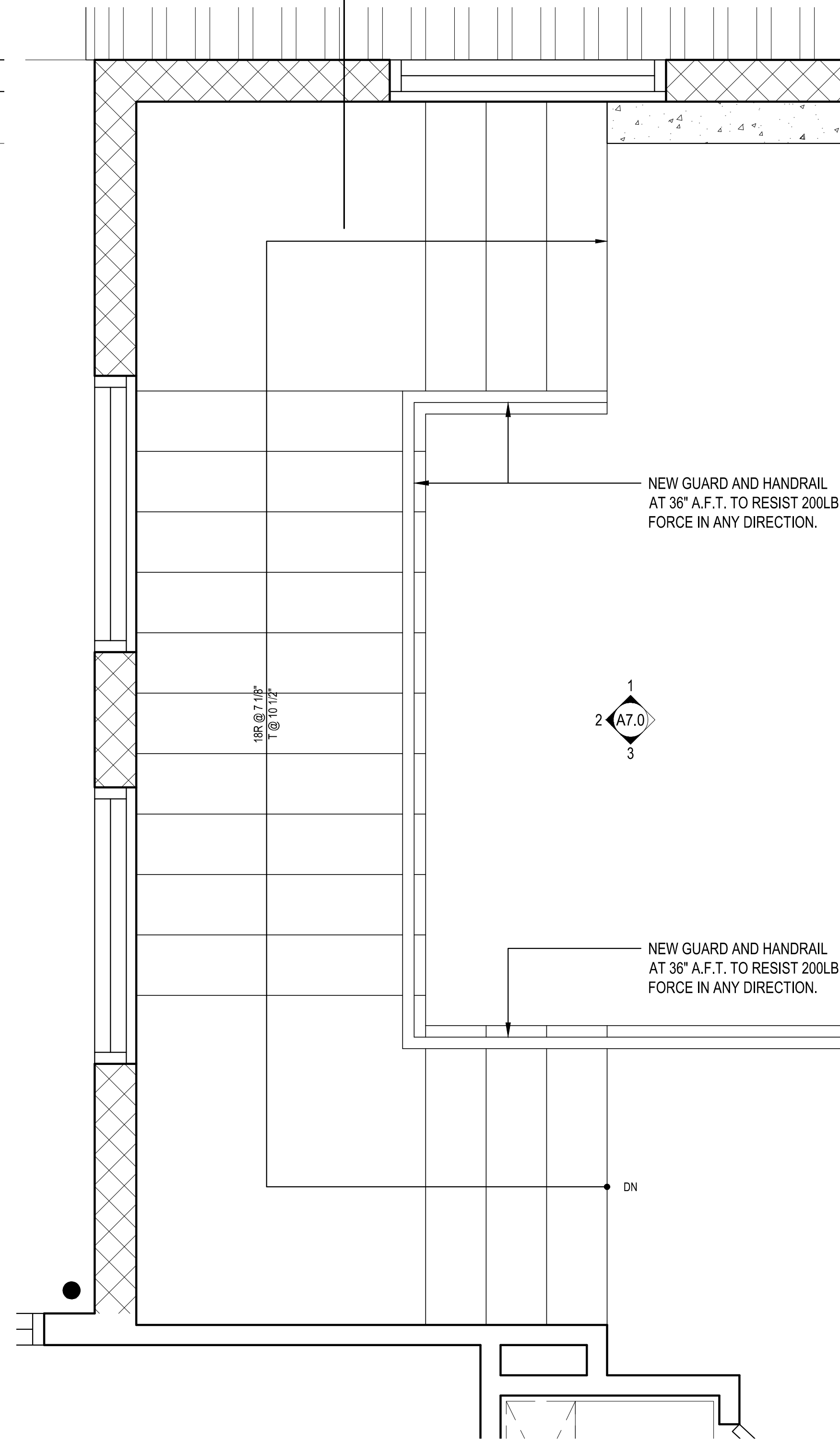
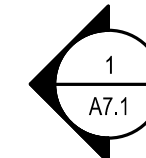
1	CORRECTION 1.1.2022.7-18
2	
3	
4	
5	

PLOT DATE: 8/8/2022  
DRAWN BY: JM  
CHECKED BY: BJS

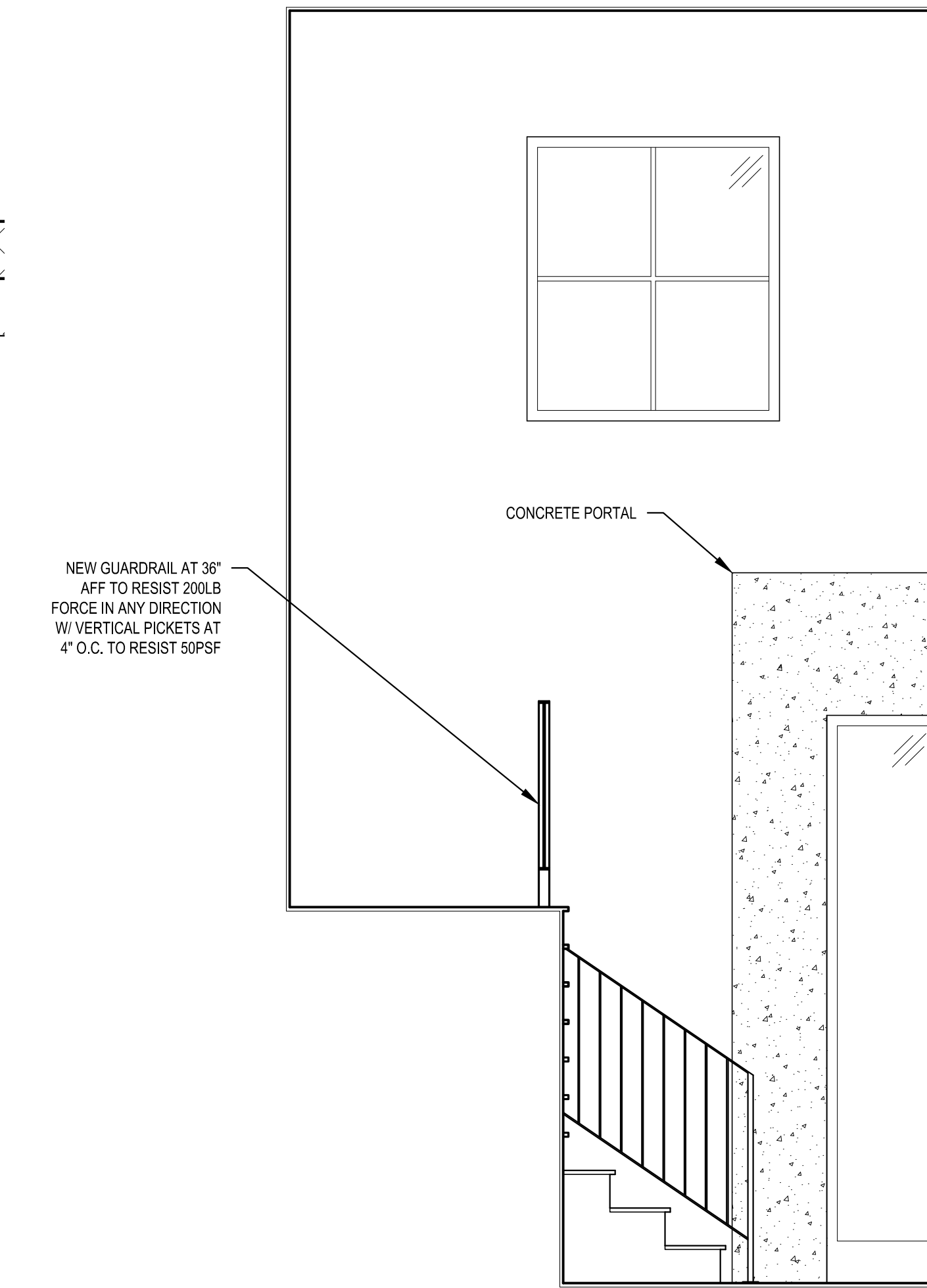
SHEET  
**A5.1**



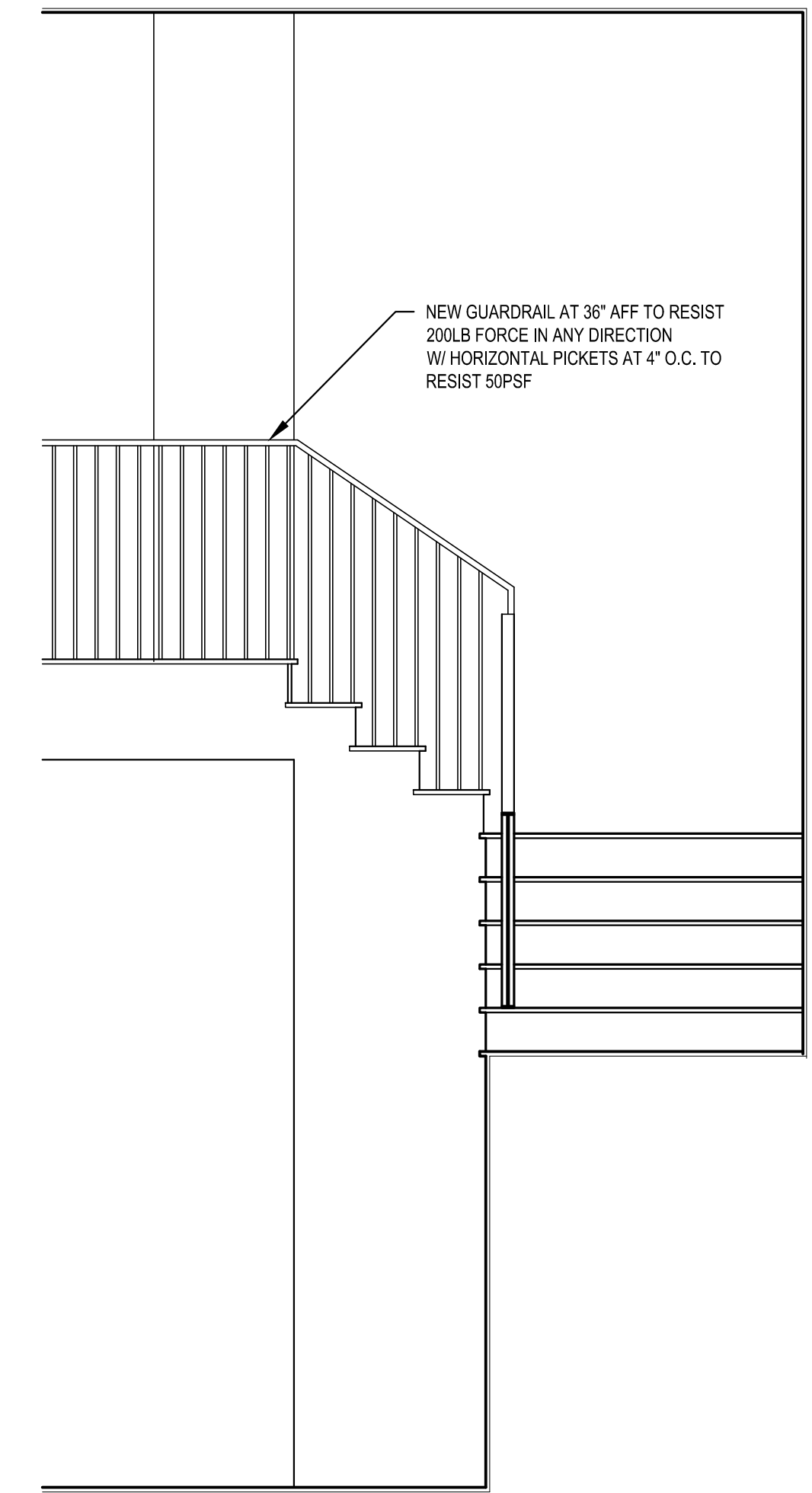
**PARTIAL MAIN FLOOR PLAN**  
SCALE: 3/4" = 1'-0"



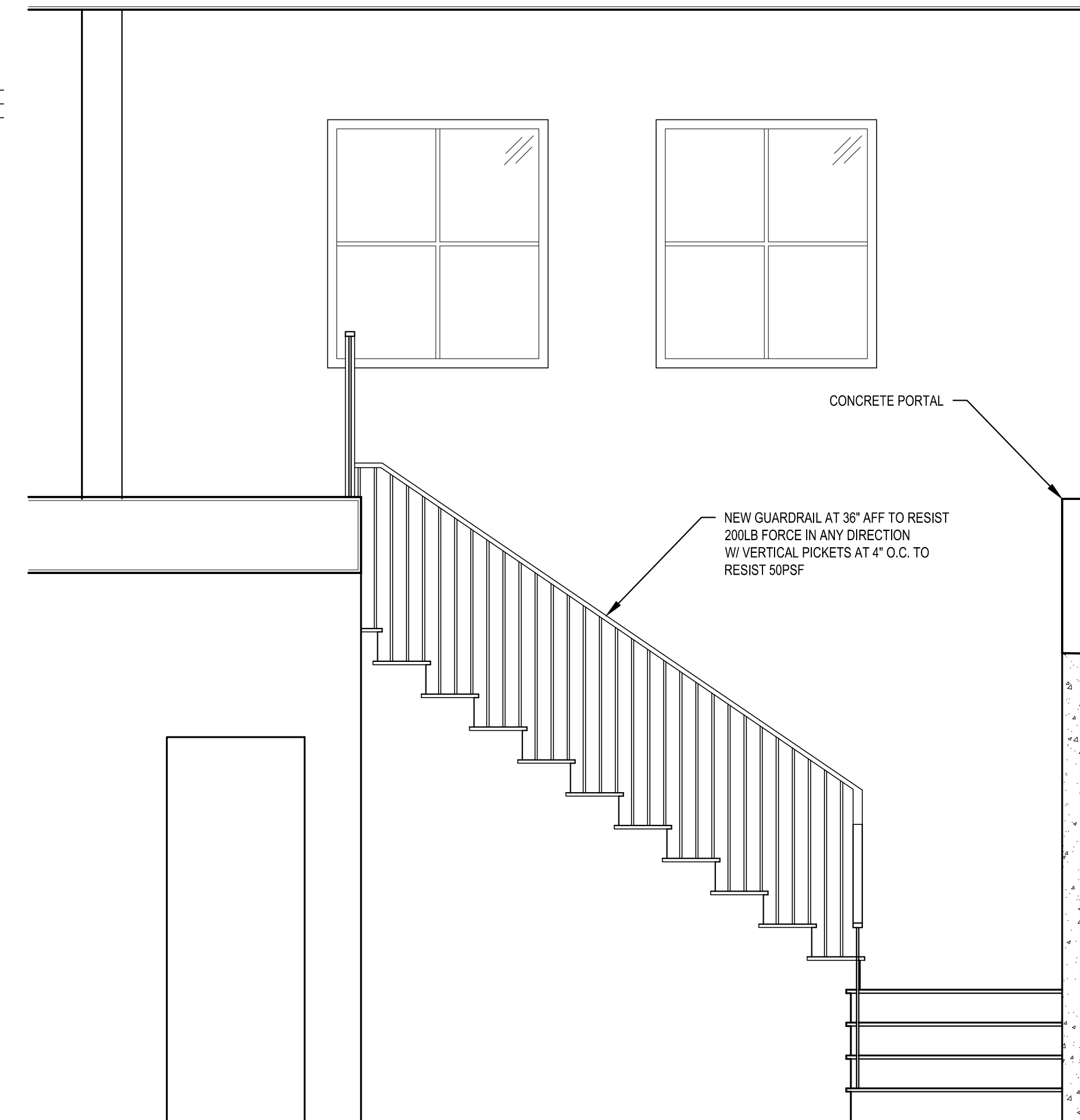
**PARTIAL UPPER FLOOR PLAN**  
SCALE: 3/4" = 1'-0"



**1 STAIR ELEVATION**  
SCALE: 1/2" = 1'-0"



**3 STAIR ELEVATION**  
SCALE: 1/4" = 1'-0"



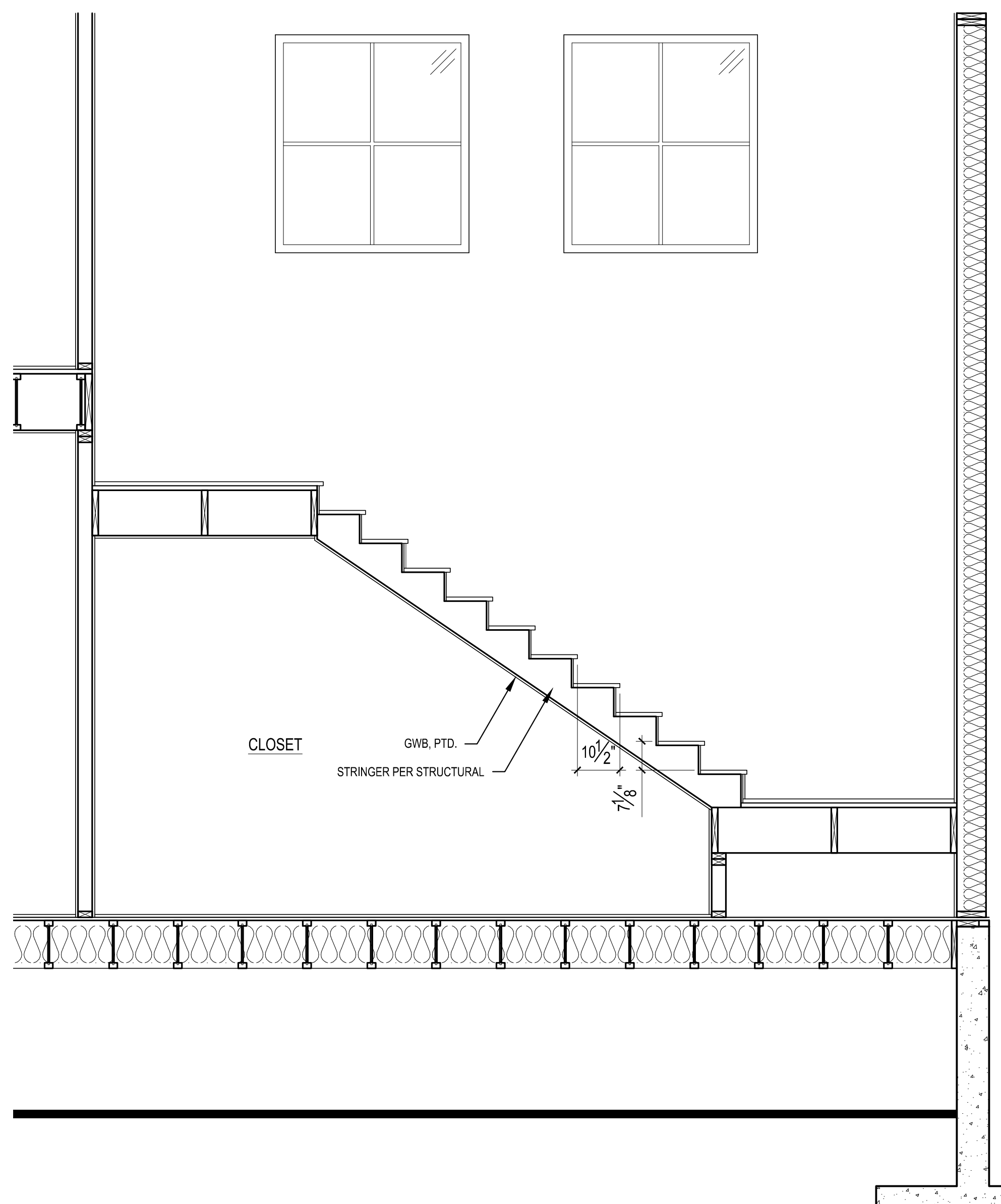
**2 STAIR ELEVATION**  
SCALE: 1/4" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET 8/8/2022

REVISIONS:	
△	CORRECTION 1 2022-7-18
△	
△	
△	

PLOT DATE:	8/9/2022
DRAWN BY:	JM
CHECKED BY:	BJS

SHEET  
**A7.0**



**1 STAIR SECTION**  
SCALE: 1/2" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY

CORRECTION SET 8/8/2022

REVISIONS:

△	CORRECTION 1	2022-7-18
△		
△		
△		
△		

PLOT DATE: 8/9/2022

DRAWN BY: JM

CHECKED BY: BJS

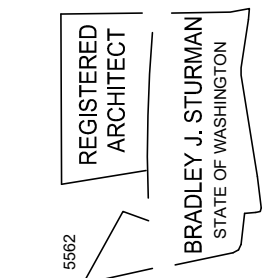
SHEET

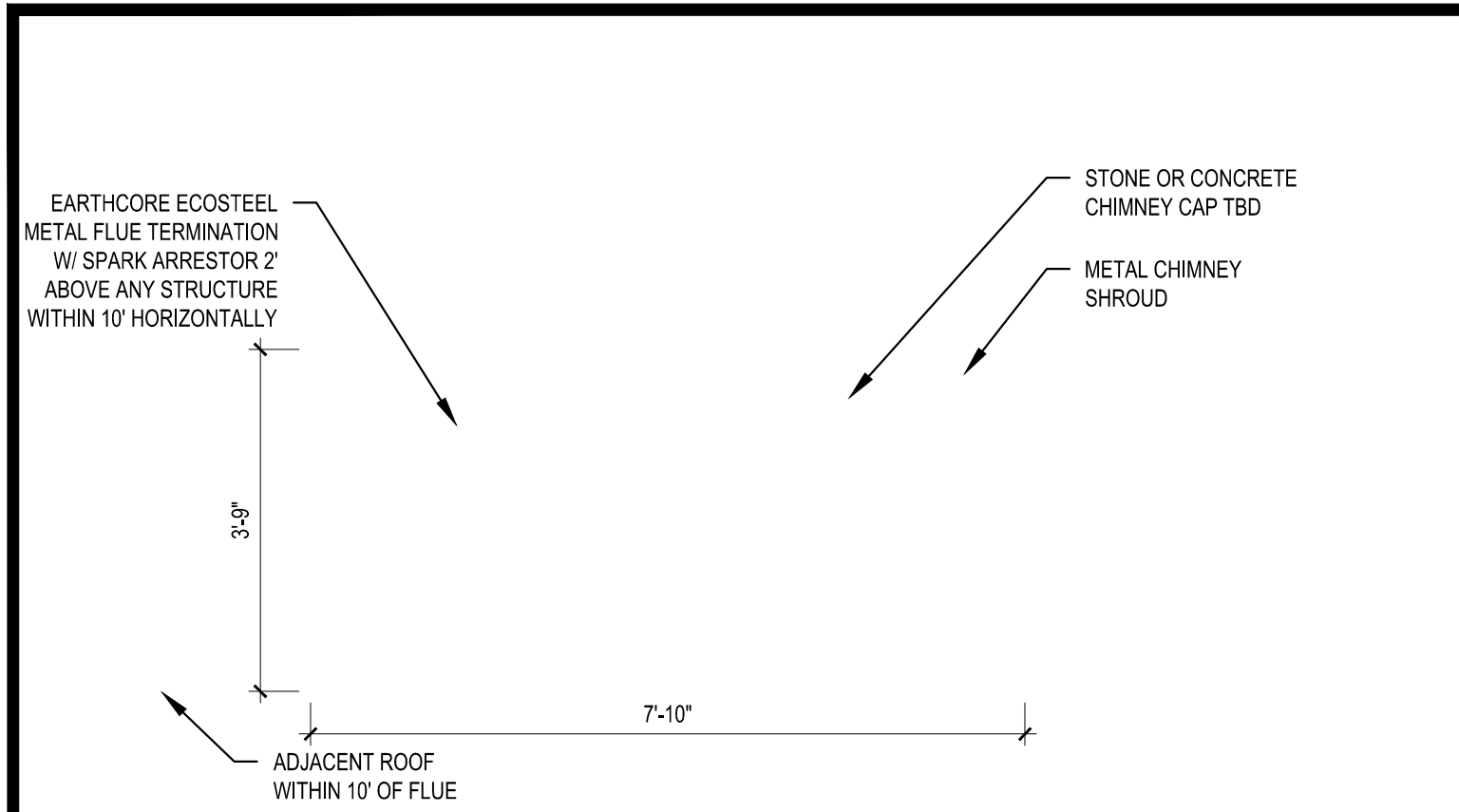
**A7.1**

**INTERIOR STAIR PLAN**

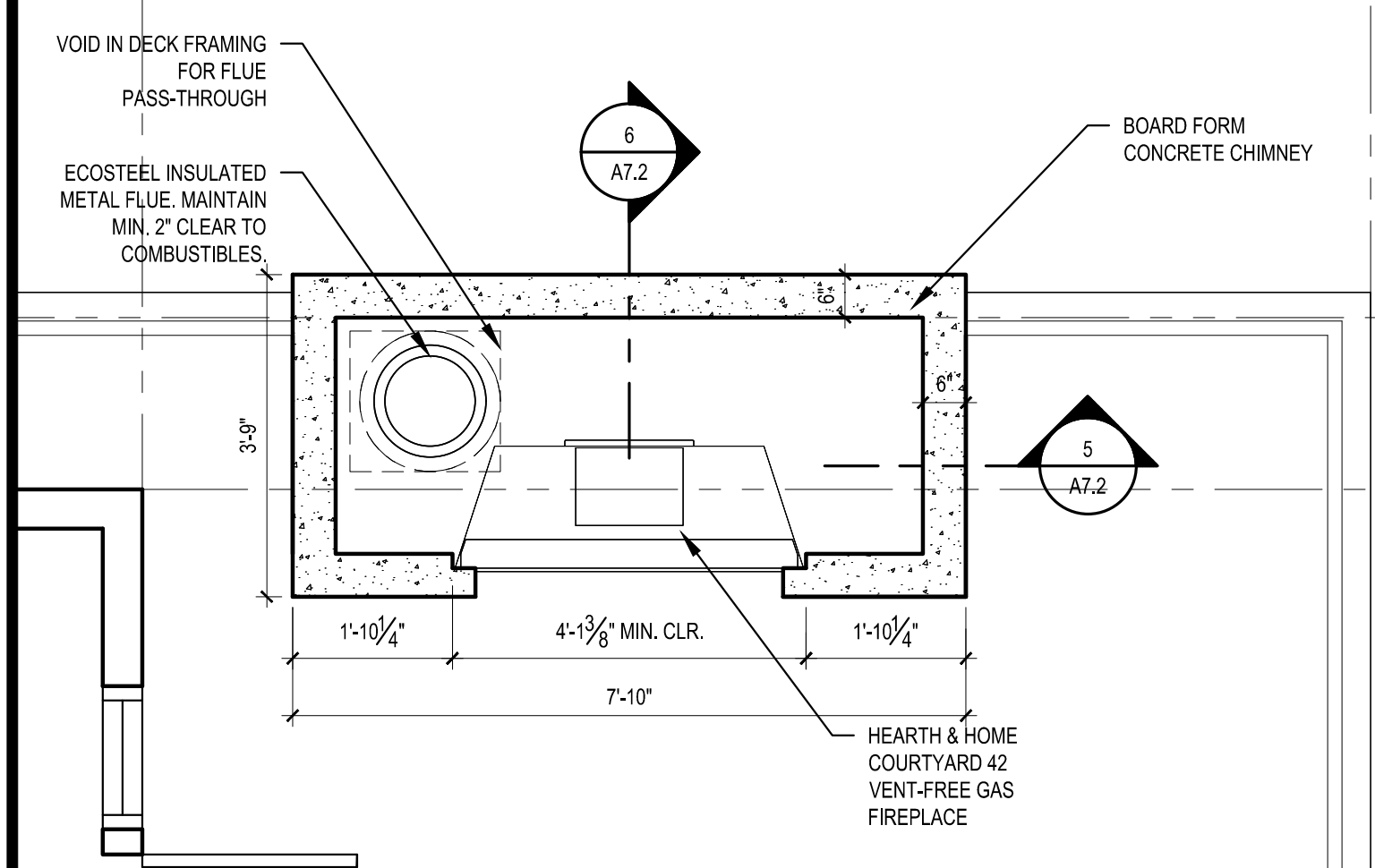
**4006 RESIDENCE**  
**4006 E MERCER WAY**  
**MERCER ISLAND, WA 98040**

www.sturmanarchitects.com  
All Rights Reserved  
© 2022

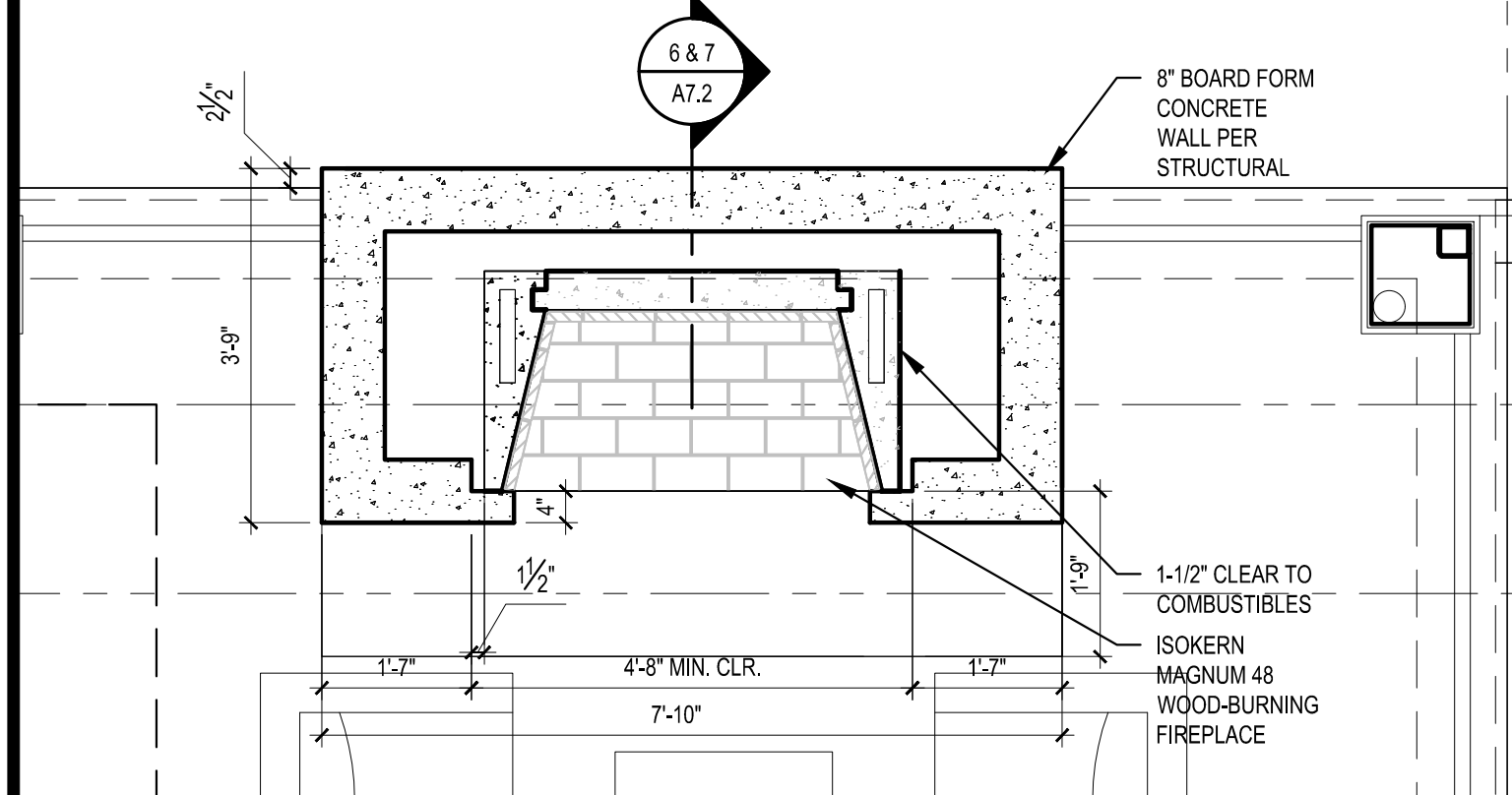




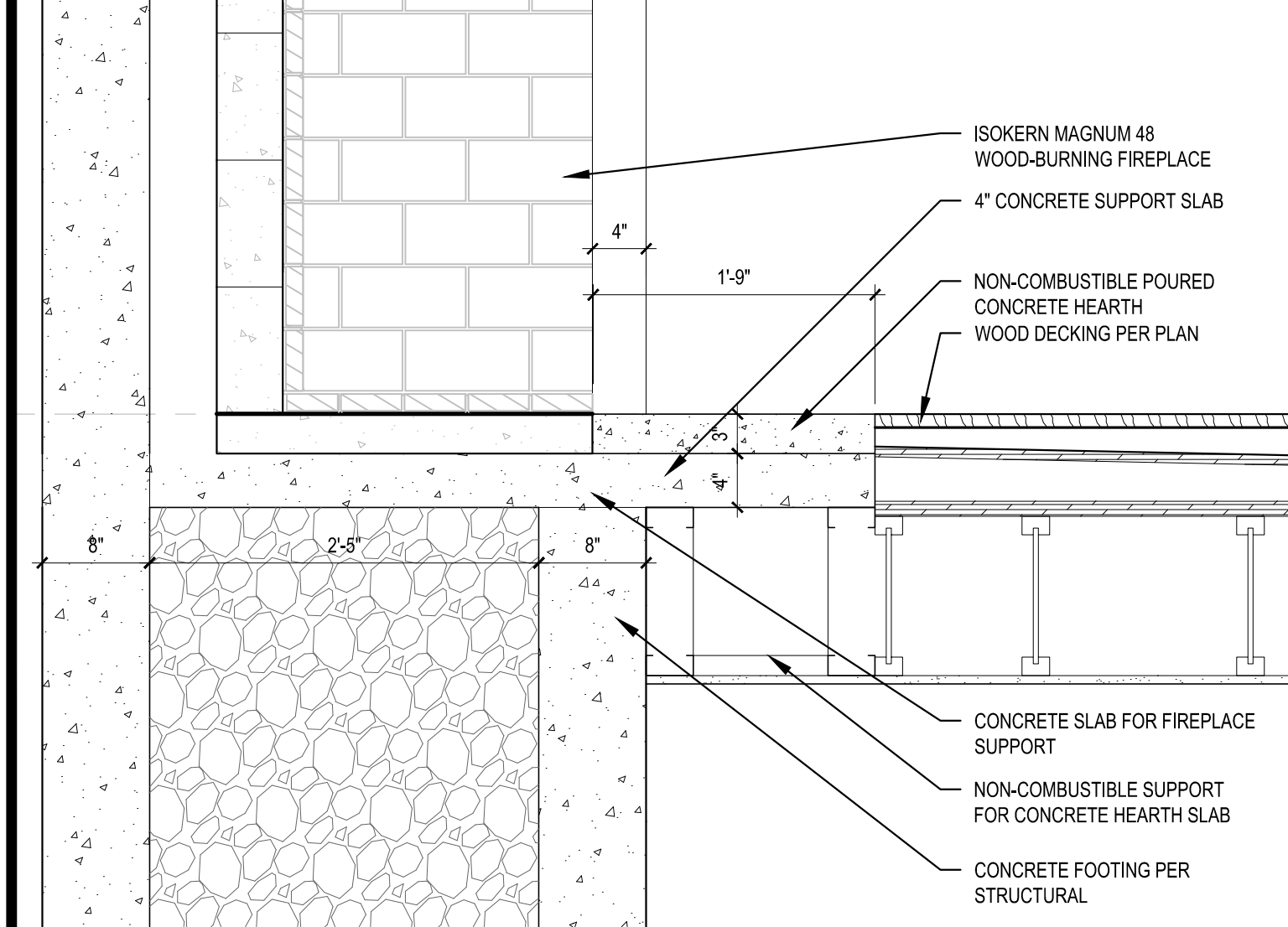
**1 UPPER FLUE PLAN**  
SCALE: 1/2" = 1'-0"



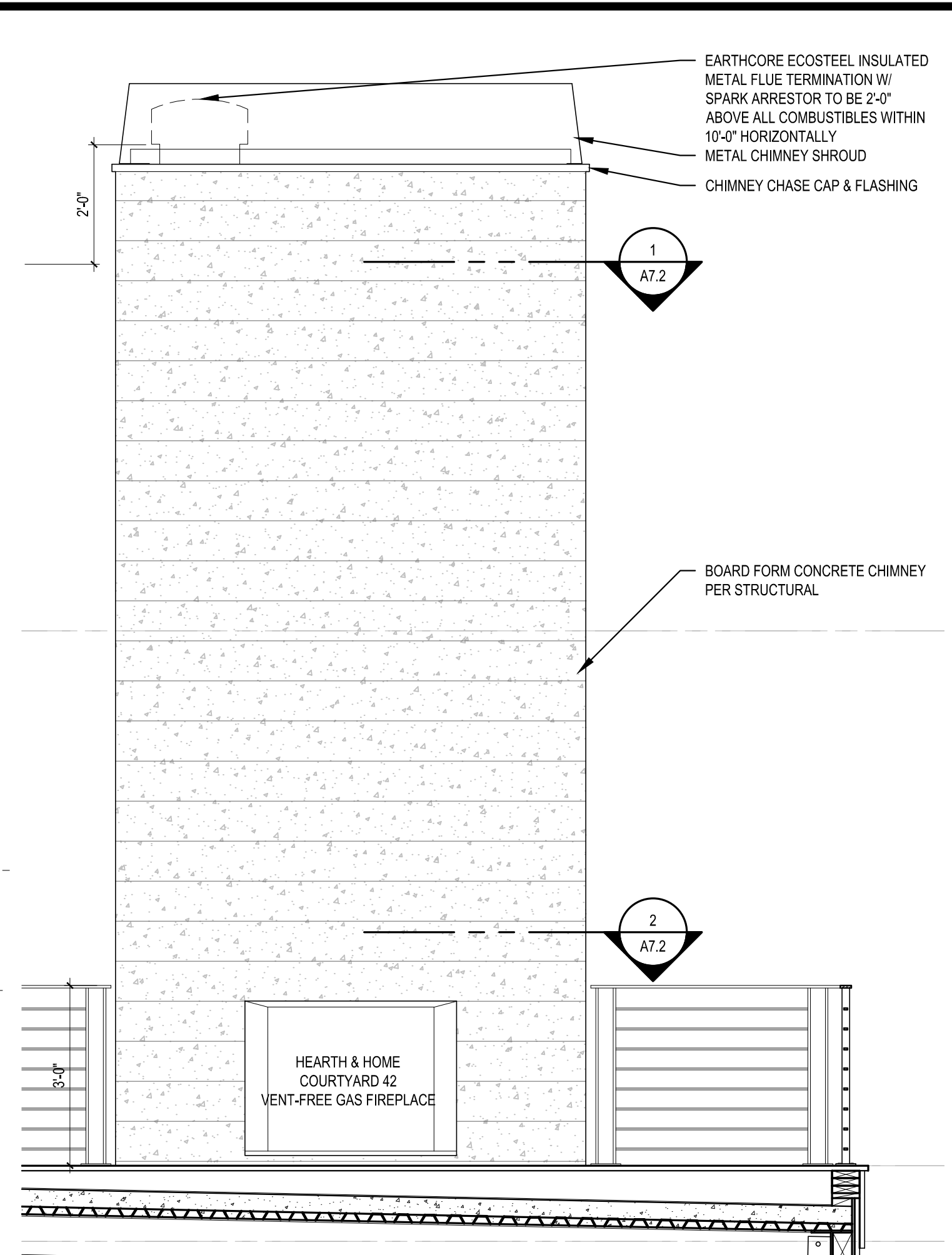
**2 UPPER FLOOR PLAN**  
SCALE: 1/2" = 1'-0"



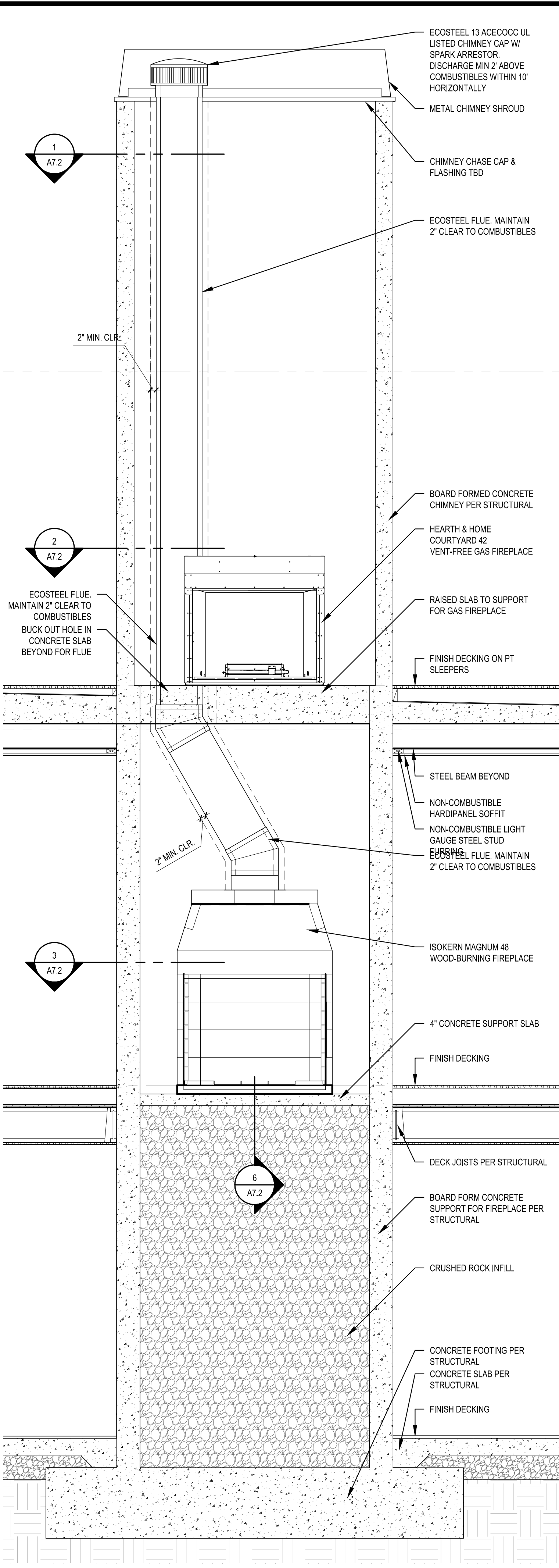
**3 MAIN FLOOR PLAN**  
SCALE: 1/2" = 1'-0"



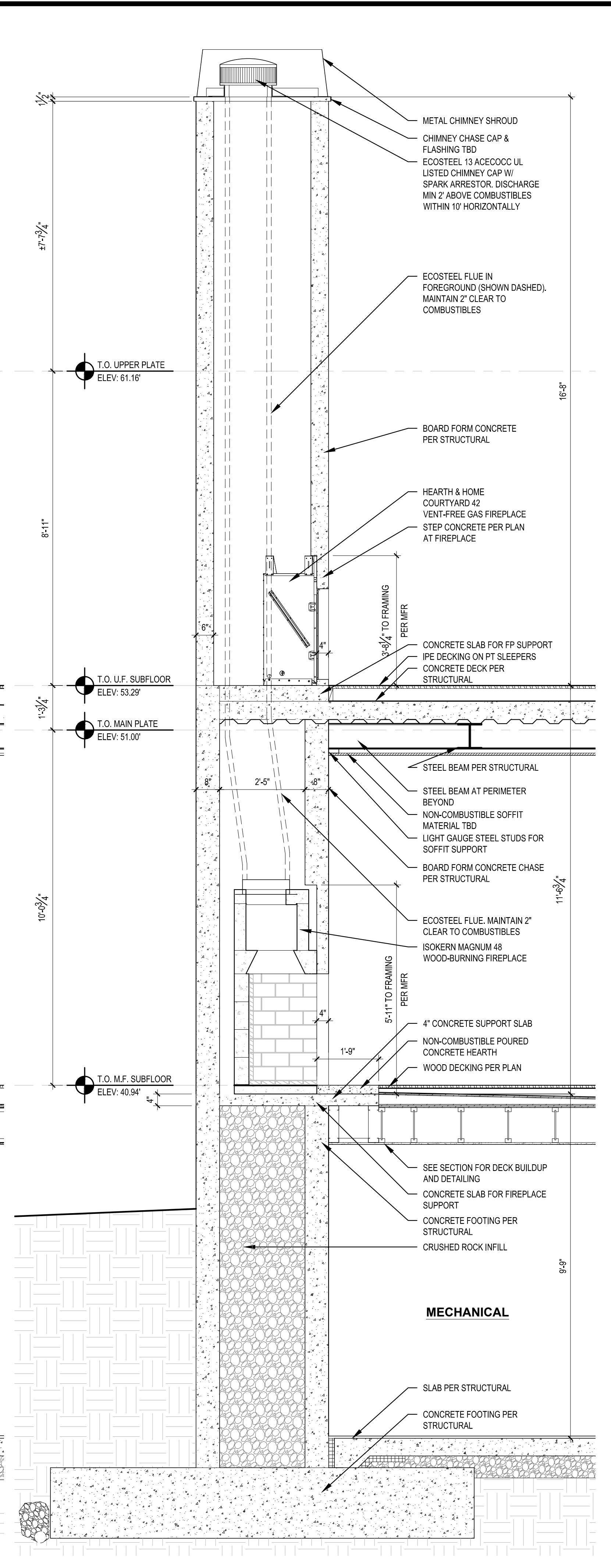
**7 HEARTH DETAIL**  
SCALE: 1" = 1'-0"



**4 FIREPLACE ELEVATION**  
SCALE: 1/2" = 1'-0"



**5 FIREPLACE SECTION**  
SCALE: 1/2" = 1'-0"



**6 FIREPLACE SECTION**  
SCALE: 1/2" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET 8/8/2022

**STURMAN ARCHITECTS**

REGISTERED ARCHITECT  
BRADLEY J. STURMAN  
STATE OF WASHINGTON

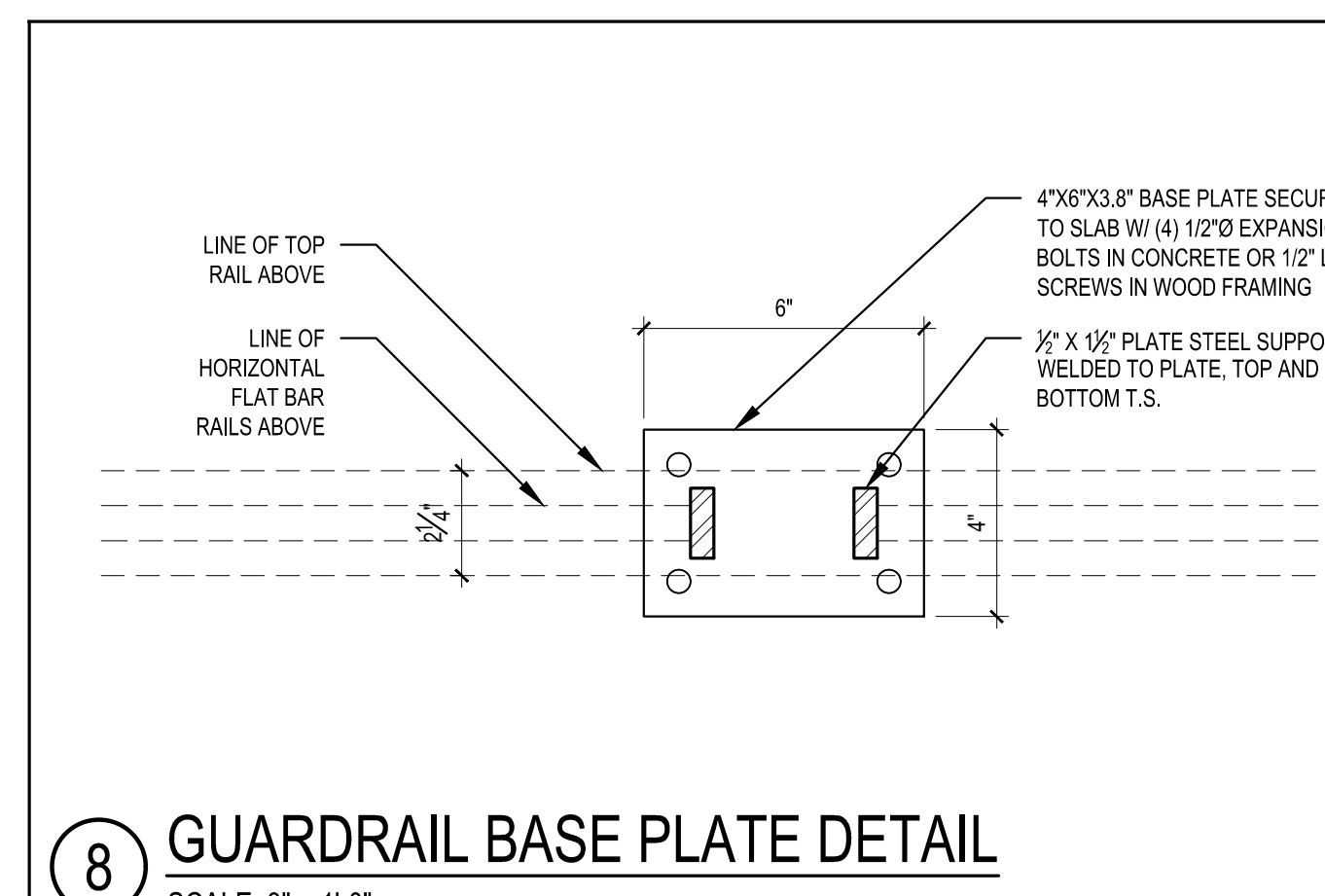
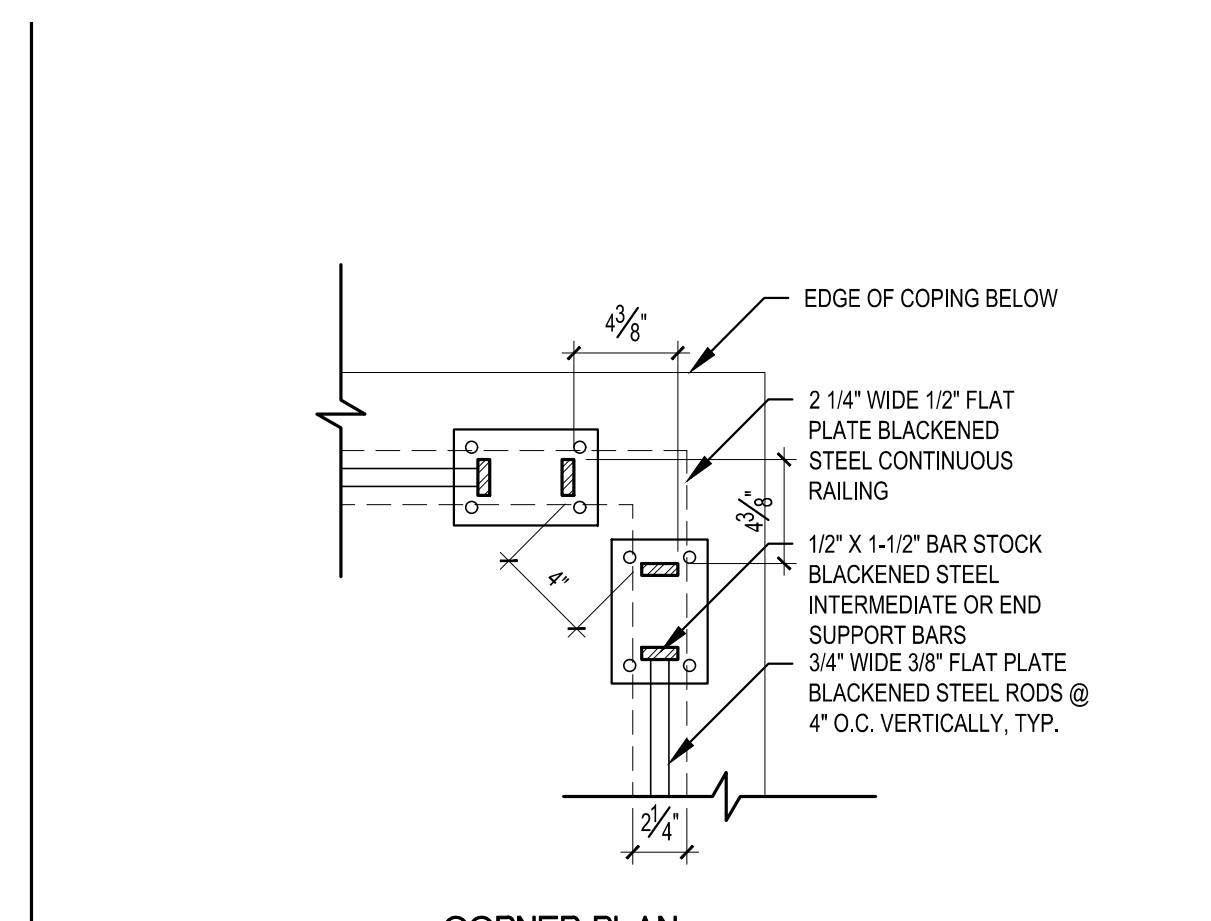
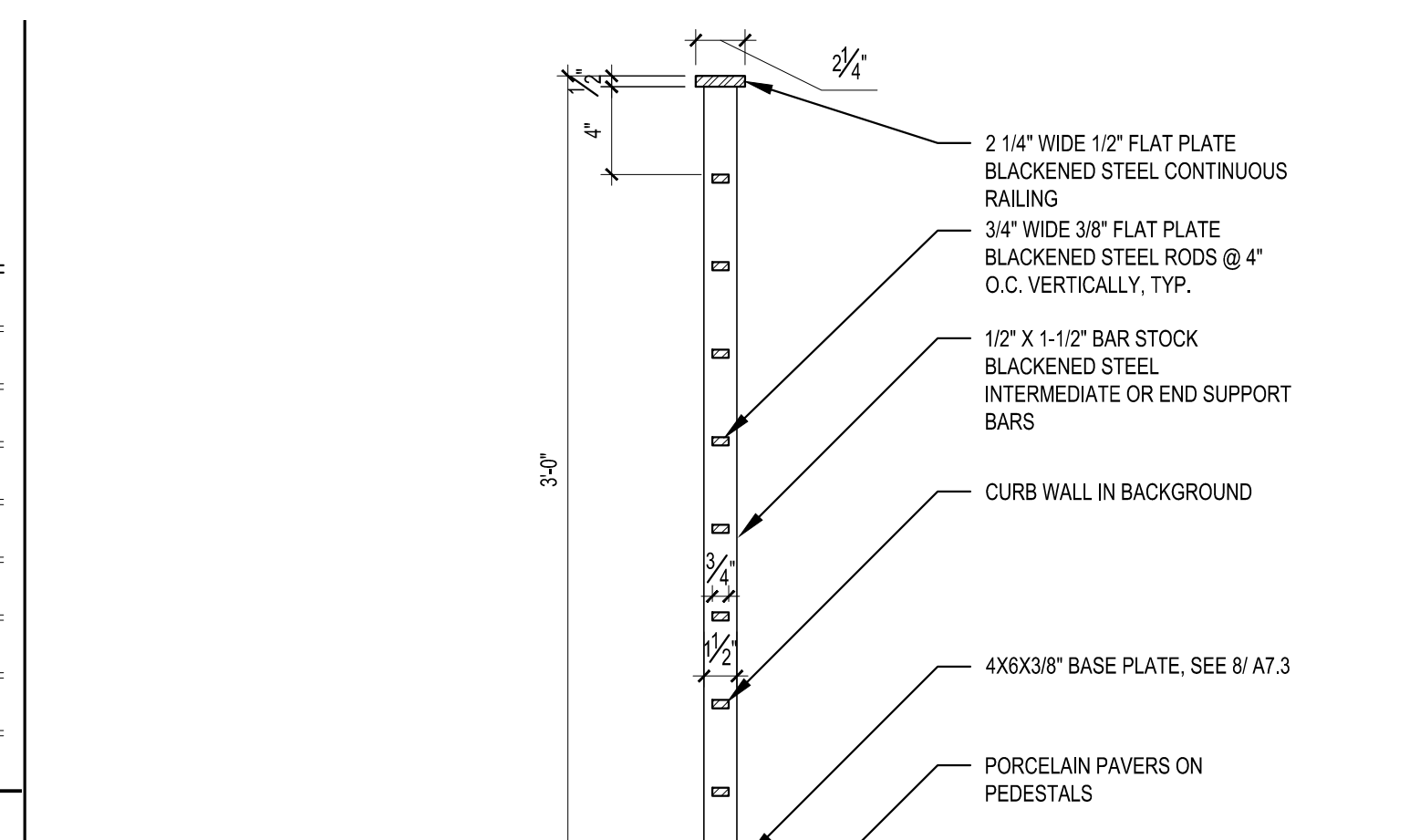
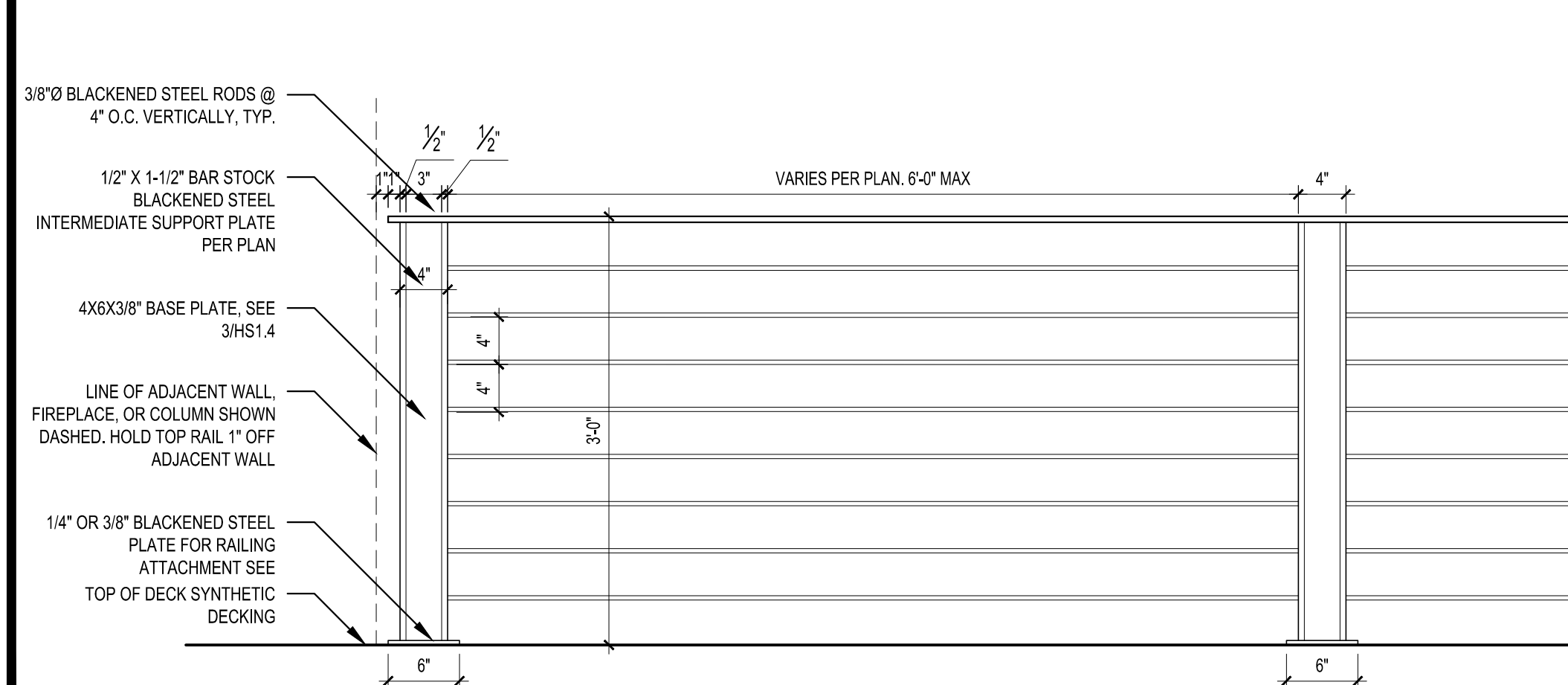
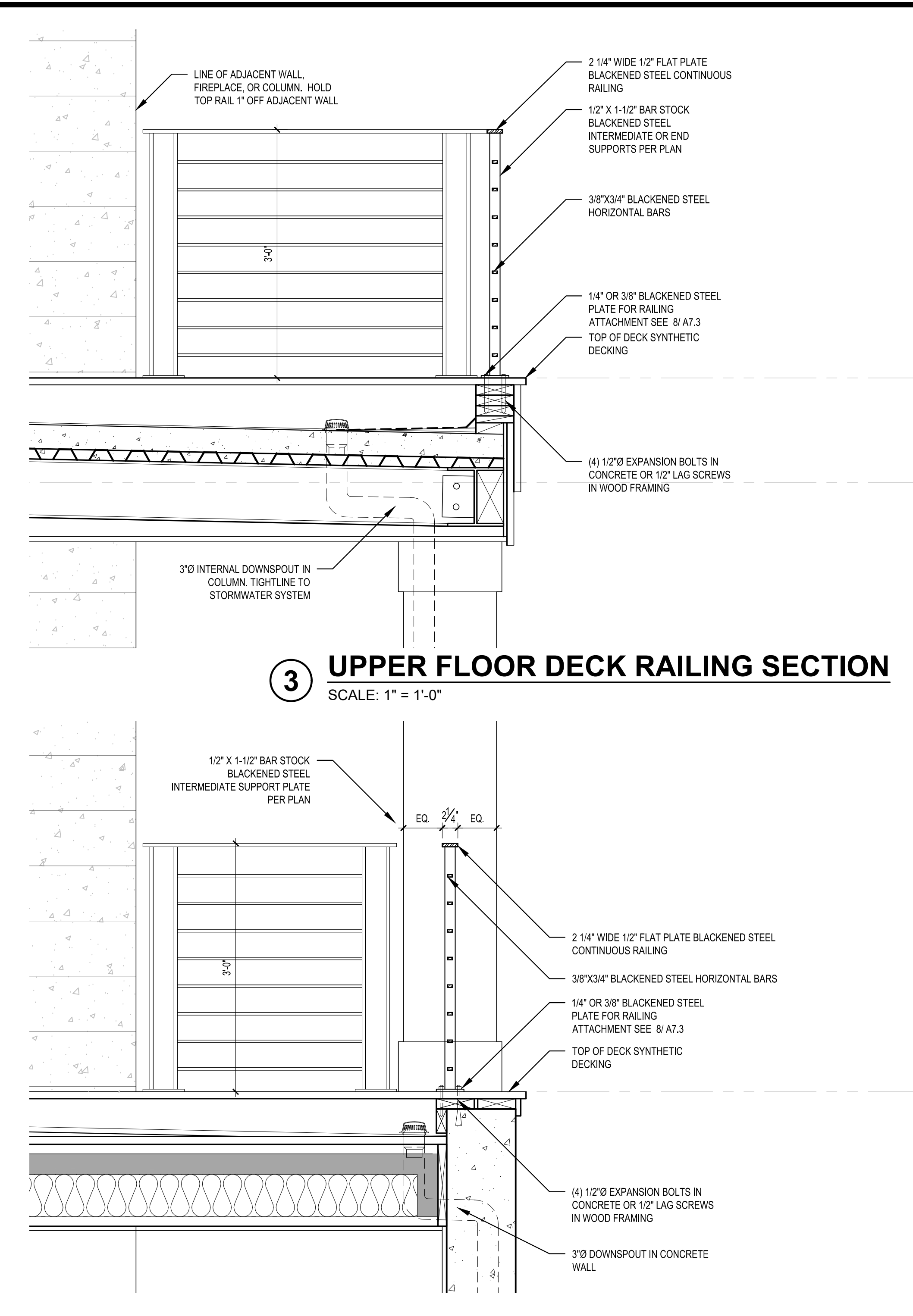
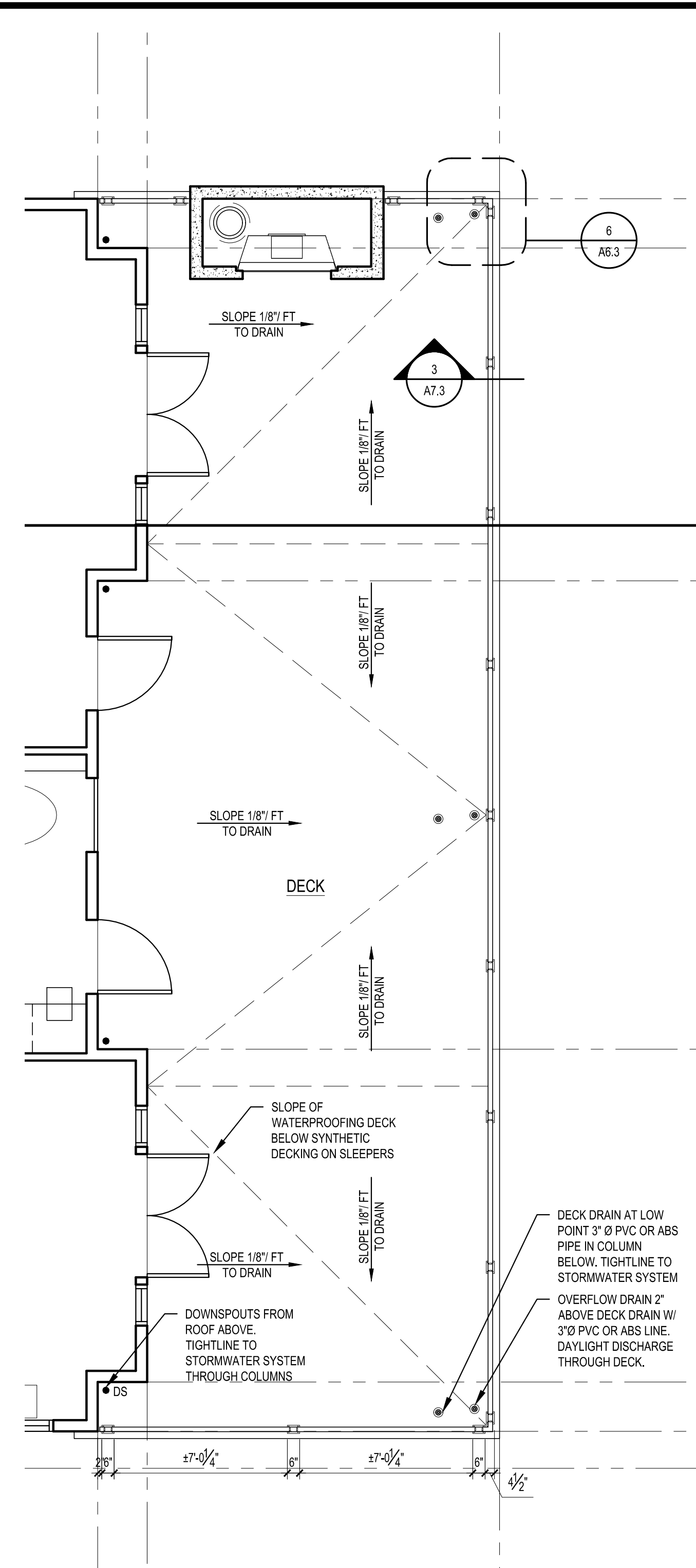
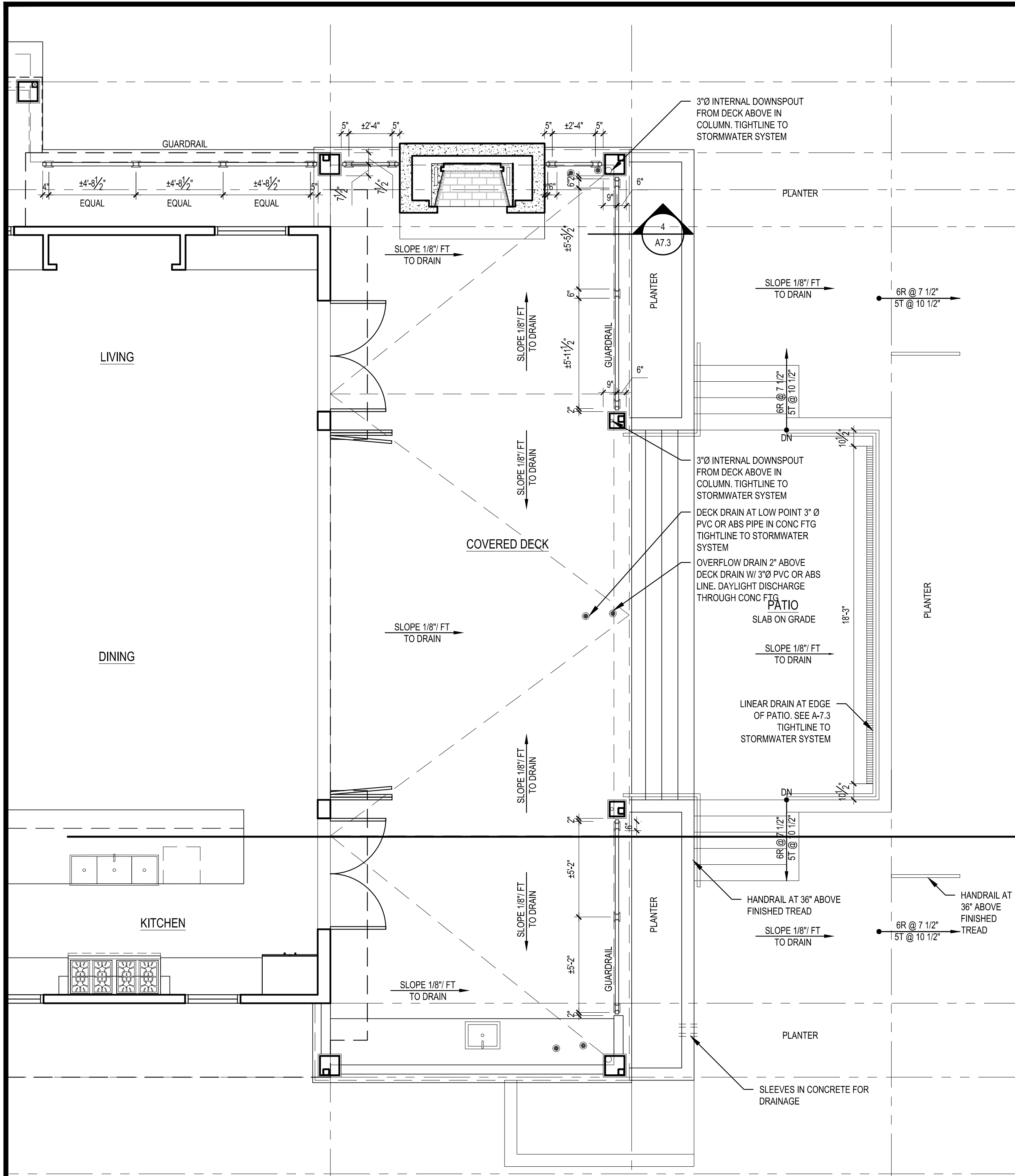
www.sturmanarchitects.com  
All Rights Reserved  
© 2022

**4006 RESIDENCE**  
**4006 E MERCER WAY**  
**MERCER ISLAND, WA 98040**

**FIREPLACE DETAILS**

REVISIONS:  
CORRECTION 1 2022-7-18

PLOT DATE: 8/9/2022  
DRAWN BY: LG  
CHECKED BY: BJS  
SHEET **A7.2**



STURMAN ARCHITECTS  
REGISTERED ARCHITECT  
BRADLEY J. STURMAN  
STATE OF WASHINGTON  
www.sturmanarchitects.com  
All Rights Reserved © 2022

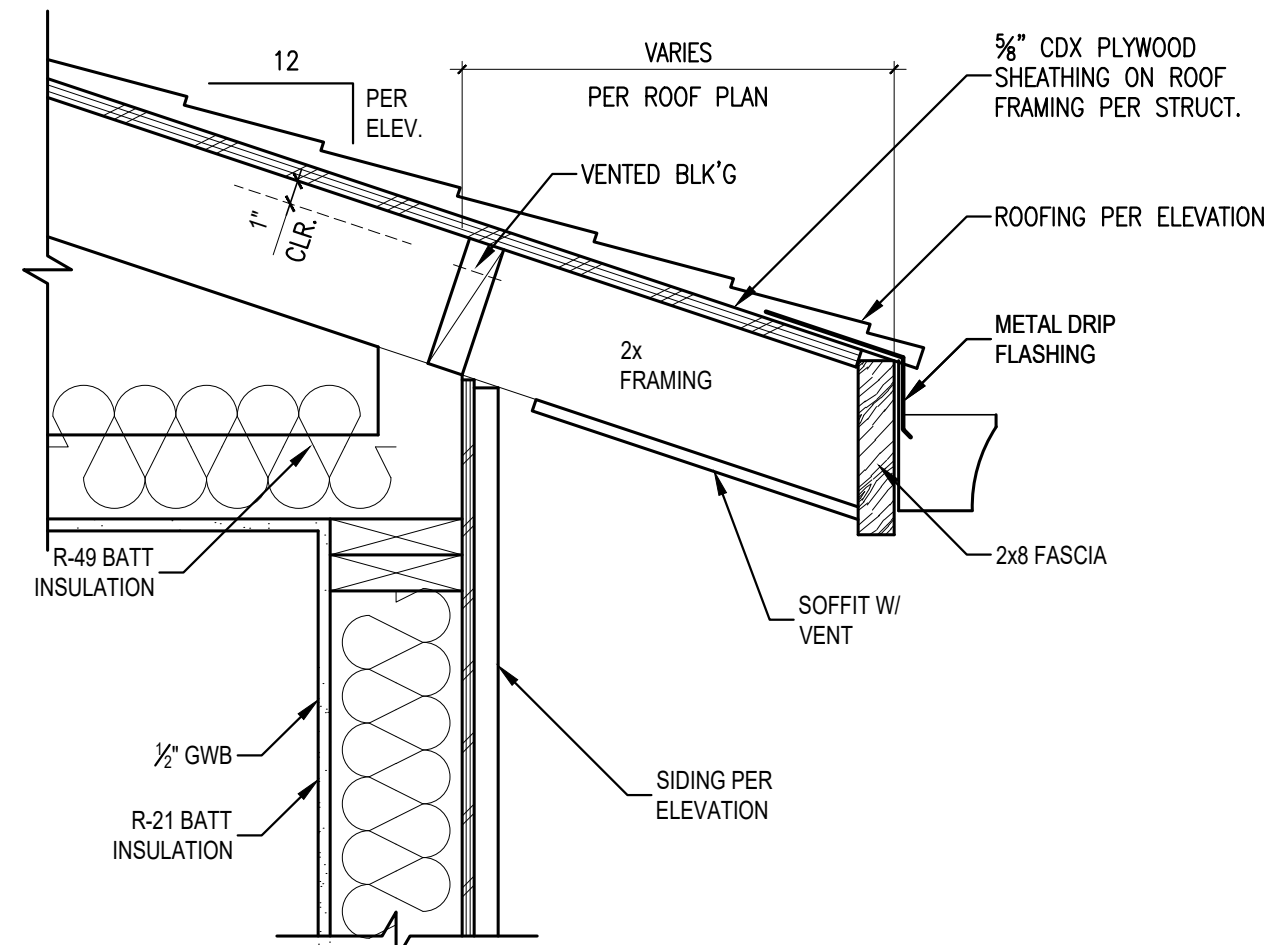
4006 RESIDENCE  
4006 E MERCER WAY  
MERCER ISLAND, WA 98040

DECK DRAINAGE AND EXTERIOR RAILINGS

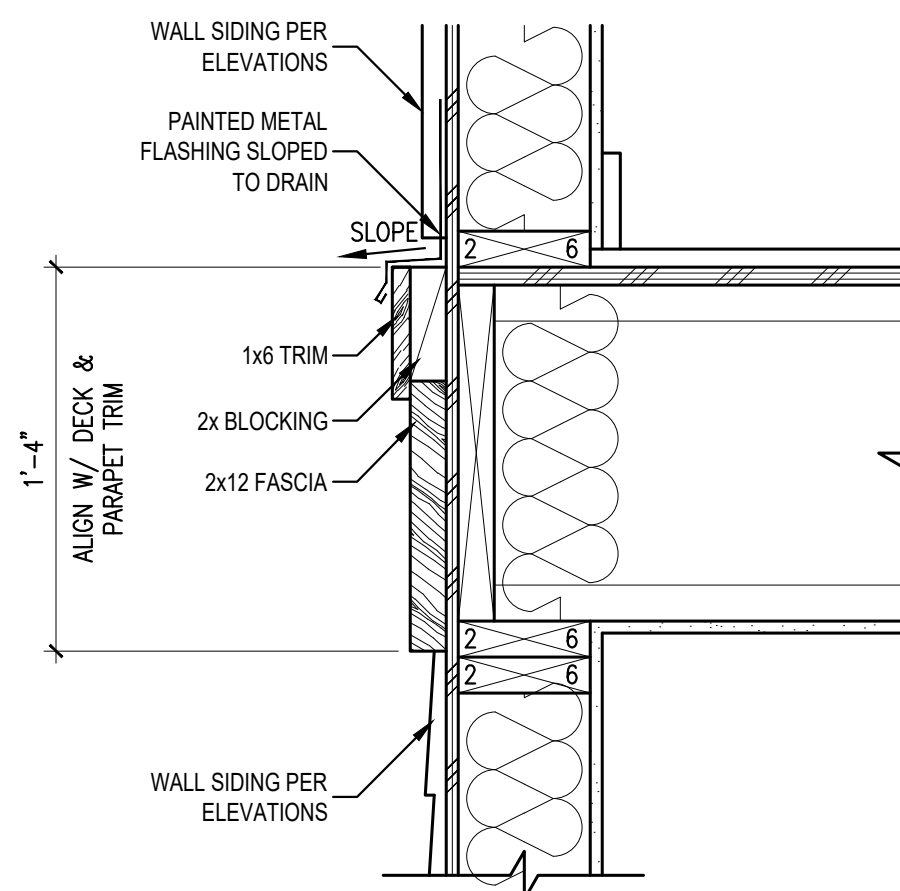
REVISIONS:  
CORRECTION 1.2022-7-18

PLOT DATE: 8/9/2022  
DRAWN BY: JM  
CHECKED BY: BJS  
SHEET A7.3

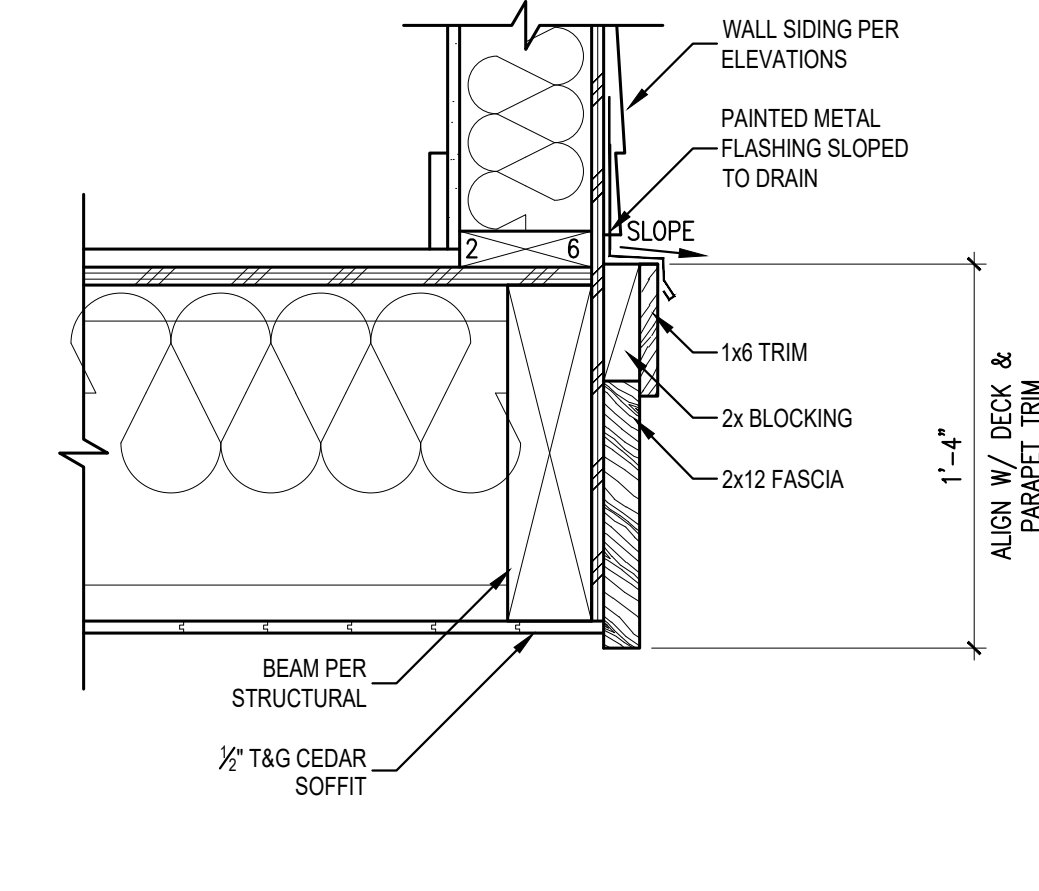
SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET 8/8/2022



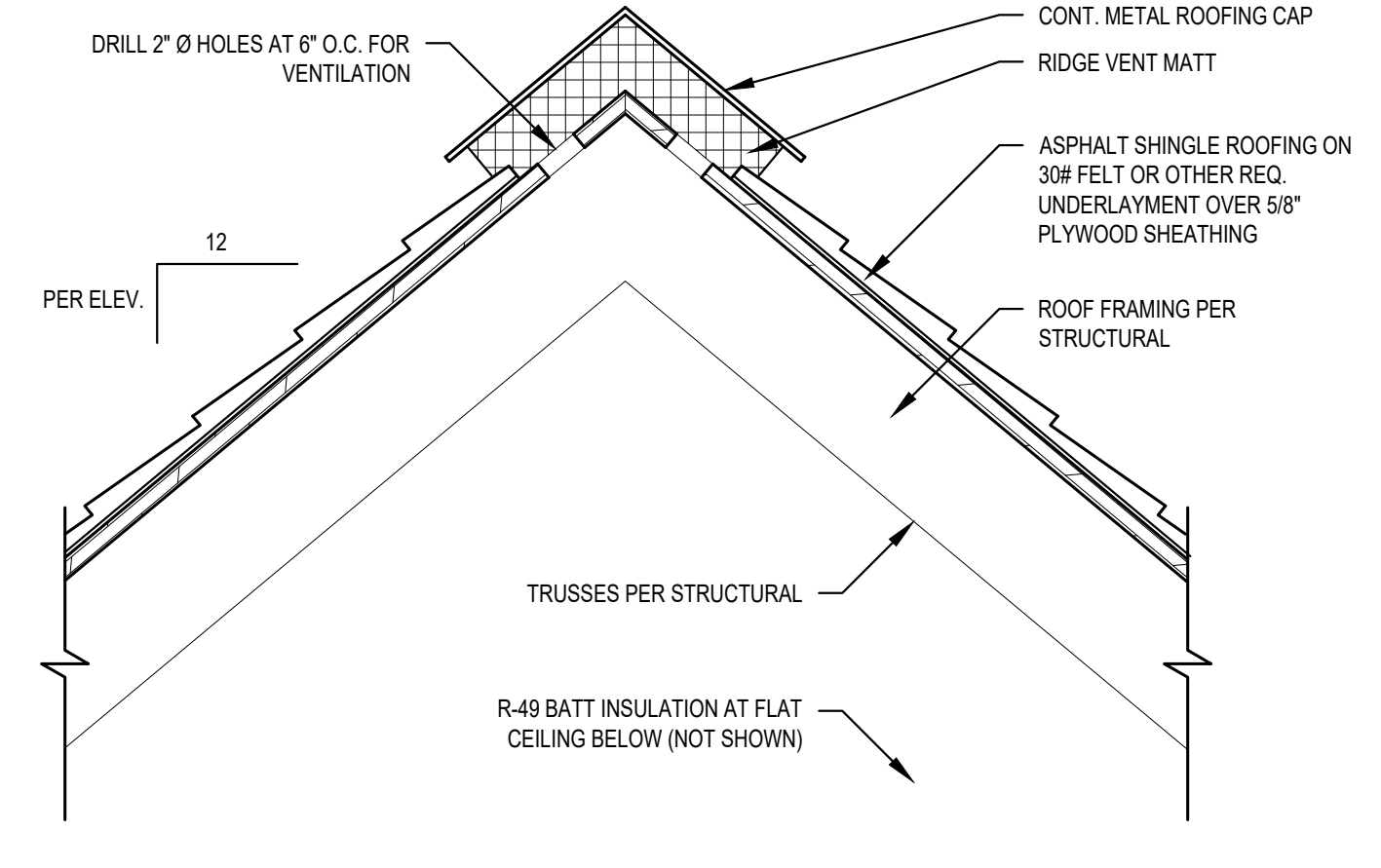
**1 TYPICAL ROOF EAVE DETAIL**  
SCALE: 1 1/2" = 1'-0"



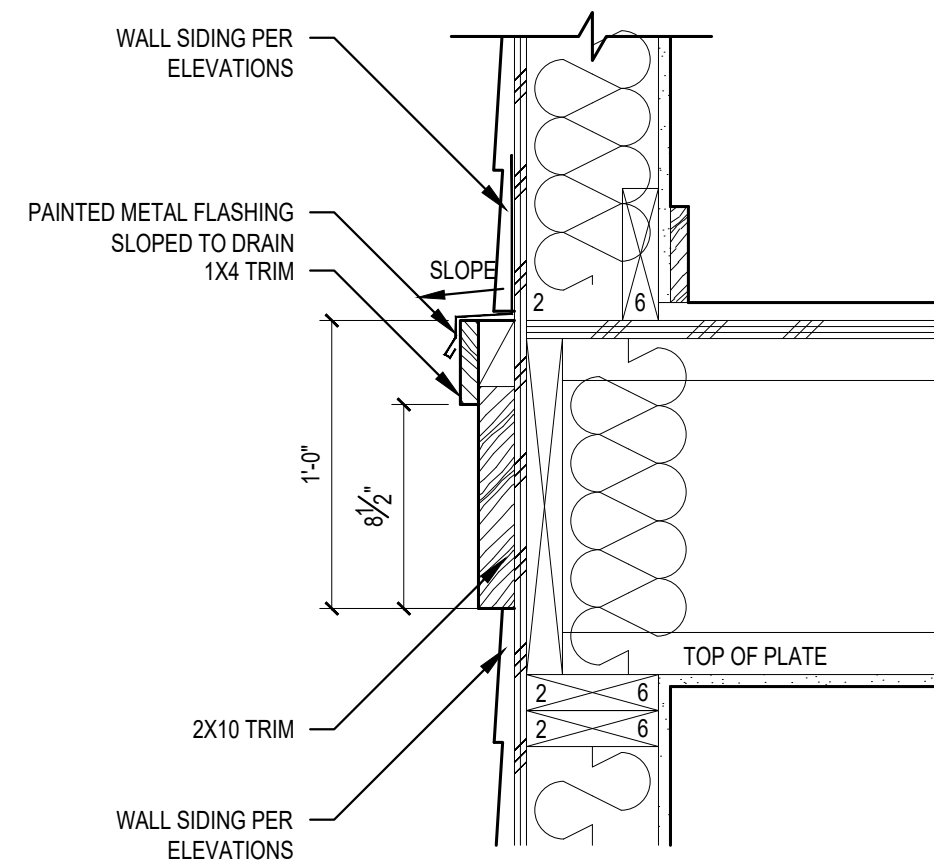
**2 TYPICAL BAND TRIM DETAIL**  
SCALE: 1 1/2" = 1'-0"



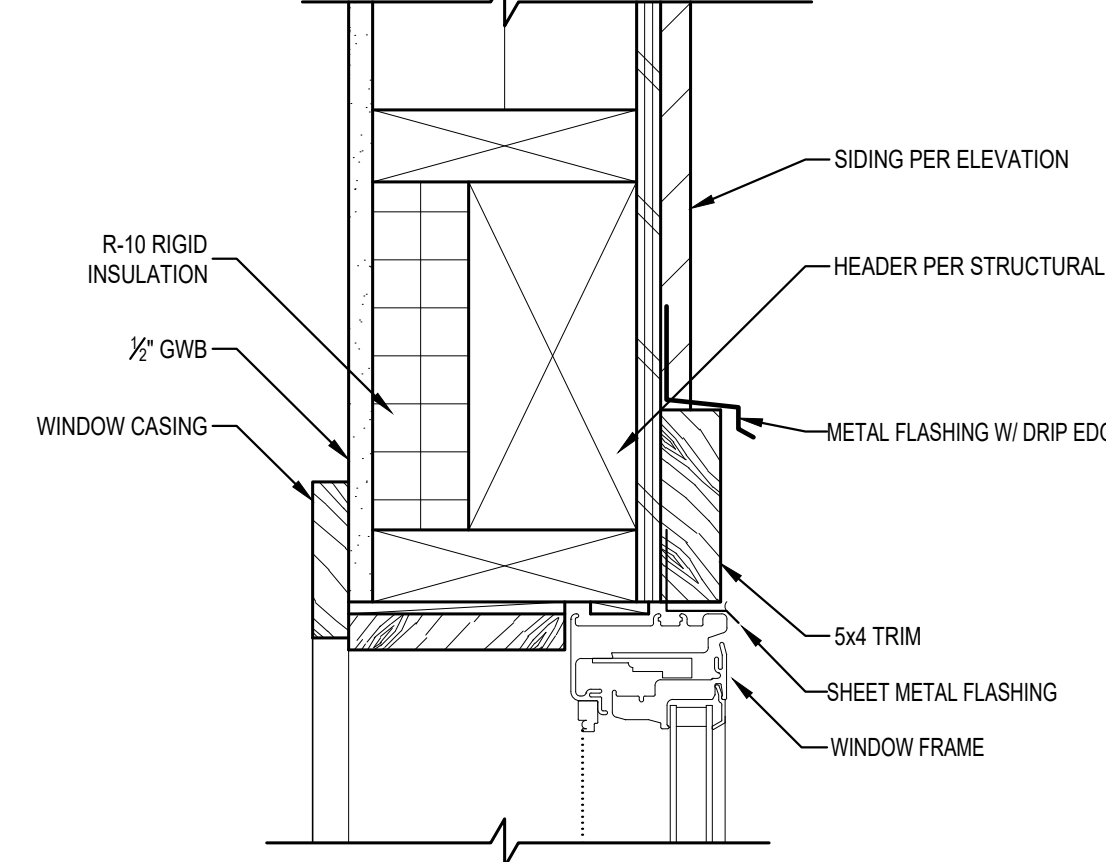
**3 BAND TRIM DETAIL AT SOFFIT**  
SCALE: 1 1/2" = 1'-0"



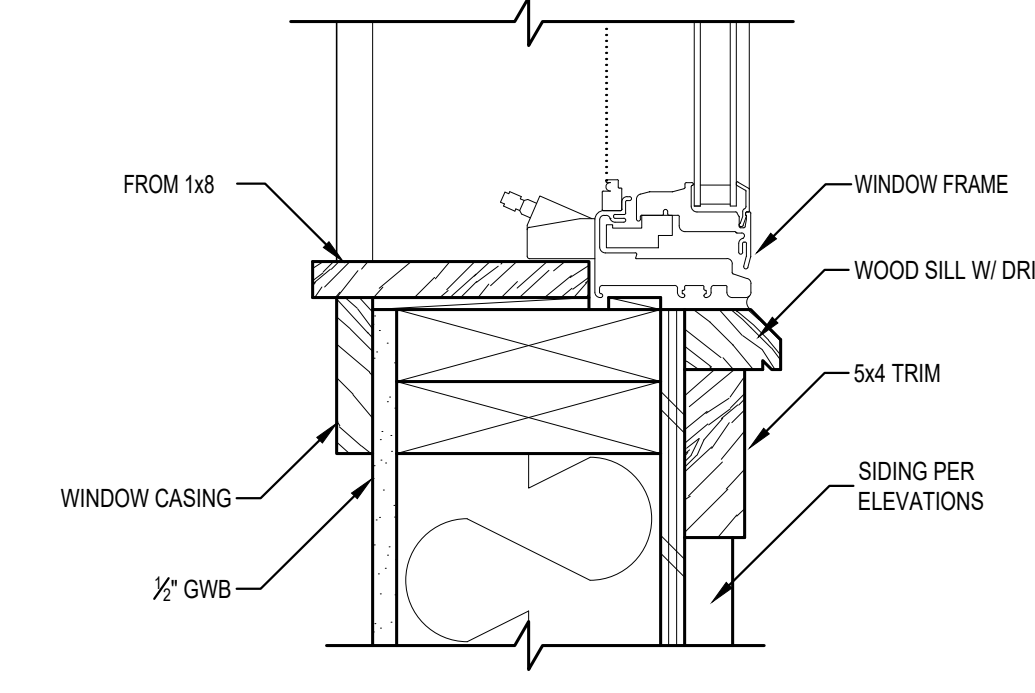
**4 TYPICAL ROOF RIDGE VENT DETAIL**  
SCALE: 1 1/2" = 1'-0"



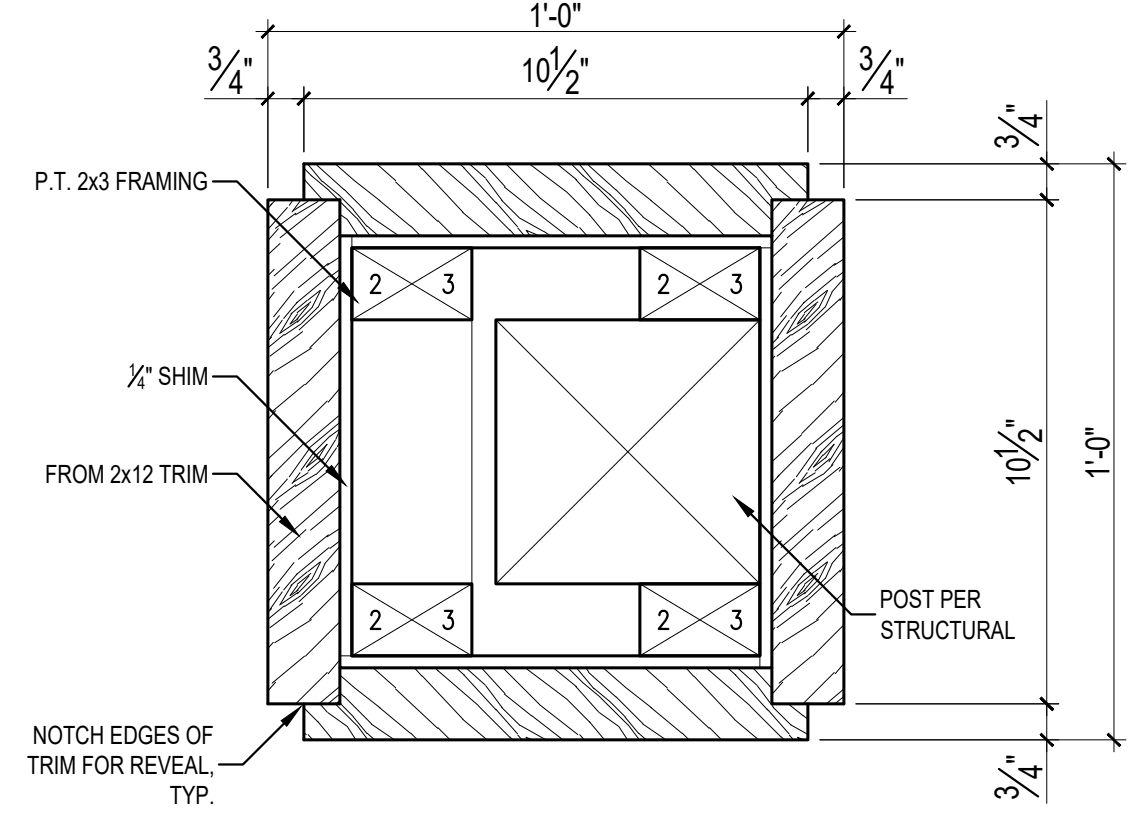
**5 TYPICAL TRIM BAND DETAIL**  
SCALE: 1 1/2" = 1'-0"



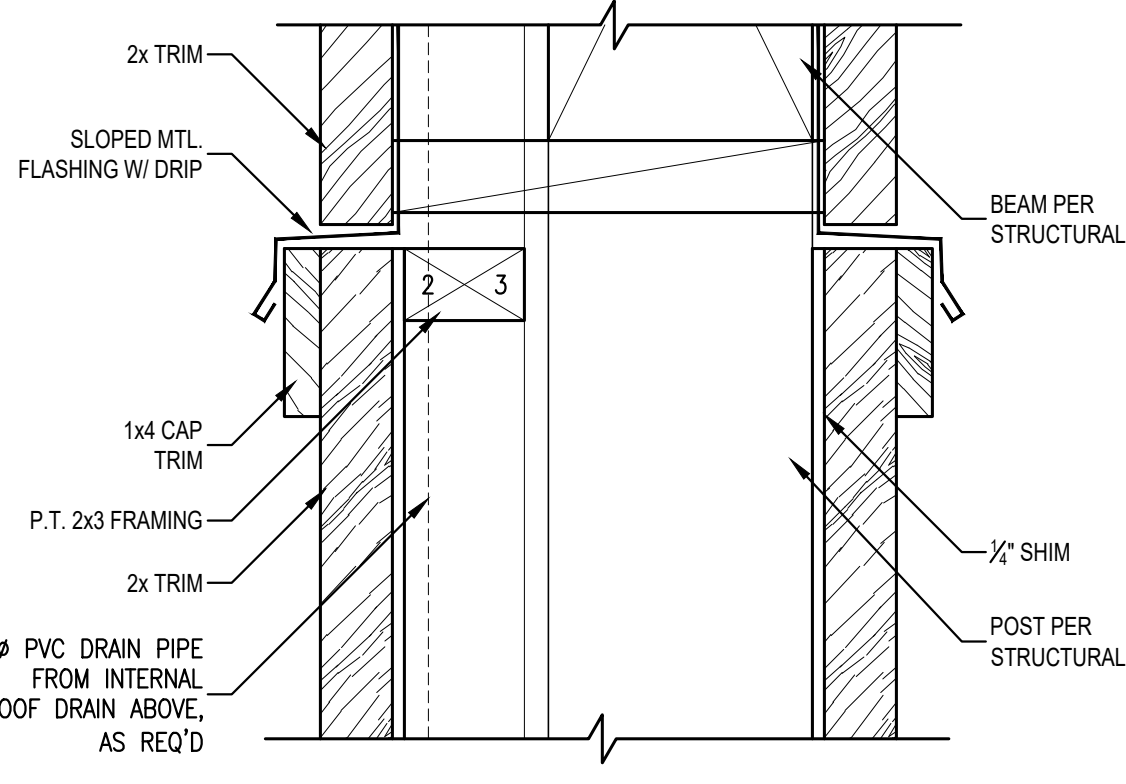
**6 TYPICAL WINDOW HEAD DETAIL**  
SCALE: 3" = 1'-0"



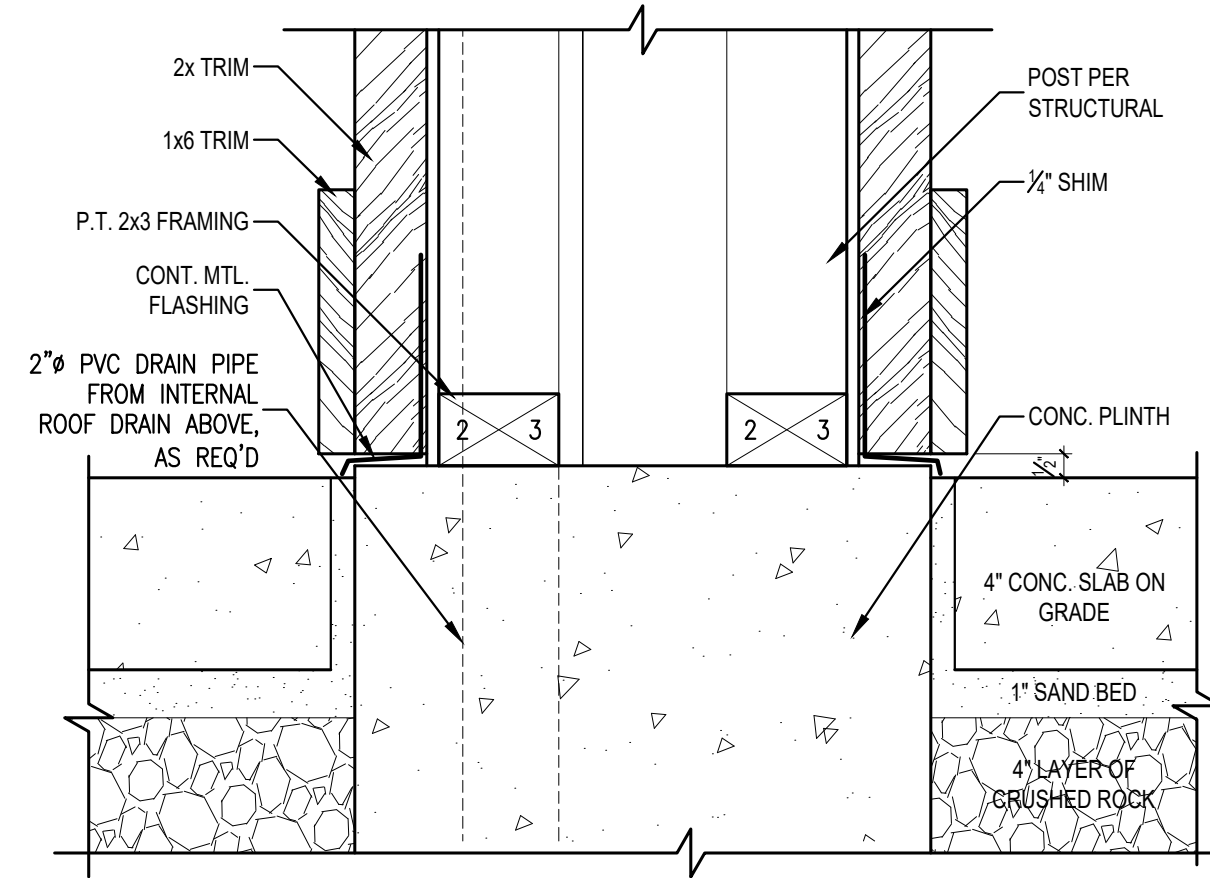
**7 TYPICAL WINDOW SILL DETAIL**  
SCALE: 3" = 1'-0"



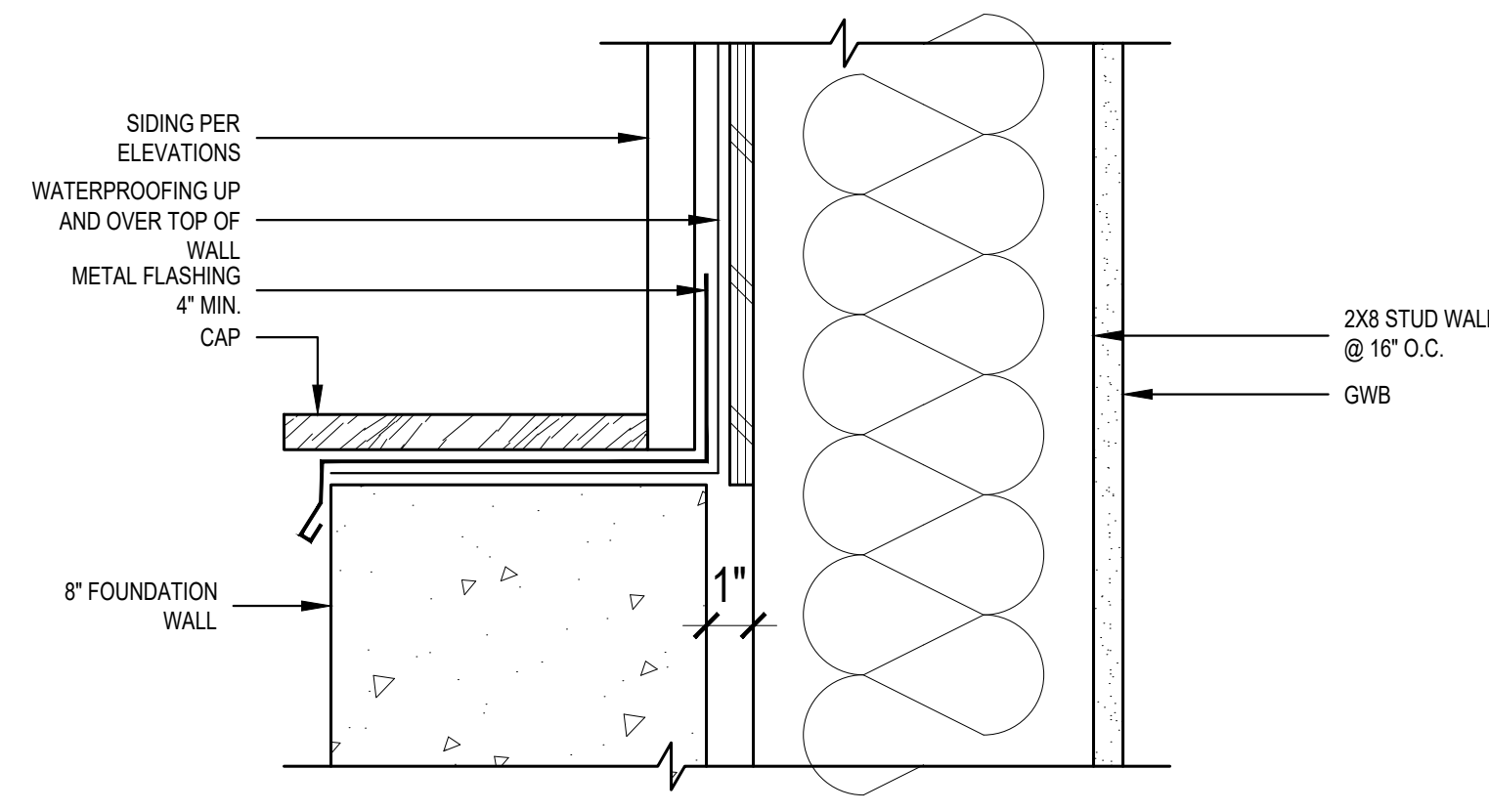
**8 TYP. COLUMN PLAN DETAIL**  
SCALE: 3" = 1'-0"



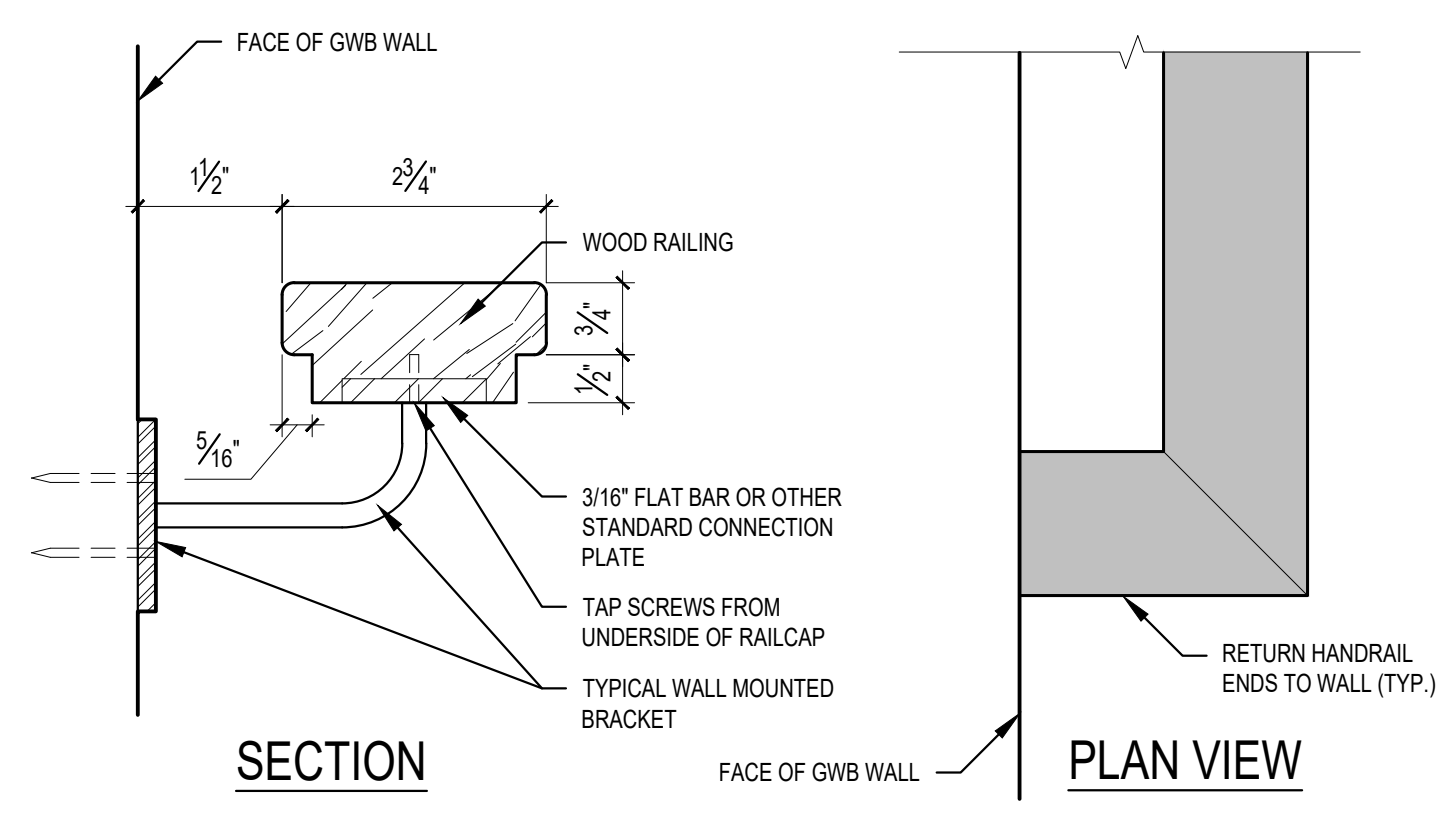
**9 TYP. COLUMN CAP SECTION DETAIL**  
SCALE: 3" = 1'-0"



**10 COLUMN BASE DTL. WITH CONC. PLINTH**  
SCALE: 3" = 1'-0"



**11 PLANTER FOUNDATION @ EXT. WALL**  
SCALE: 3" = 1'-0"

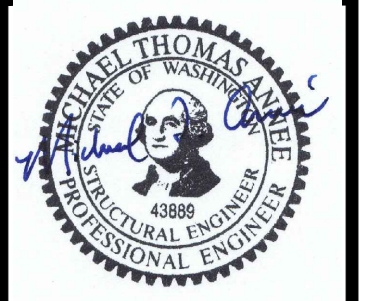


**12 HANDRAIL DETAIL**  
SCALE: 6" = 1'-0"

REVISIONS:	
△	CORRECTION 1.2022.7-18
△	
△	
△	
△	
PLOT DATE:	8/8/2022
DRAWN BY:	JM
CHECKED BY:	BJS
SHEET	



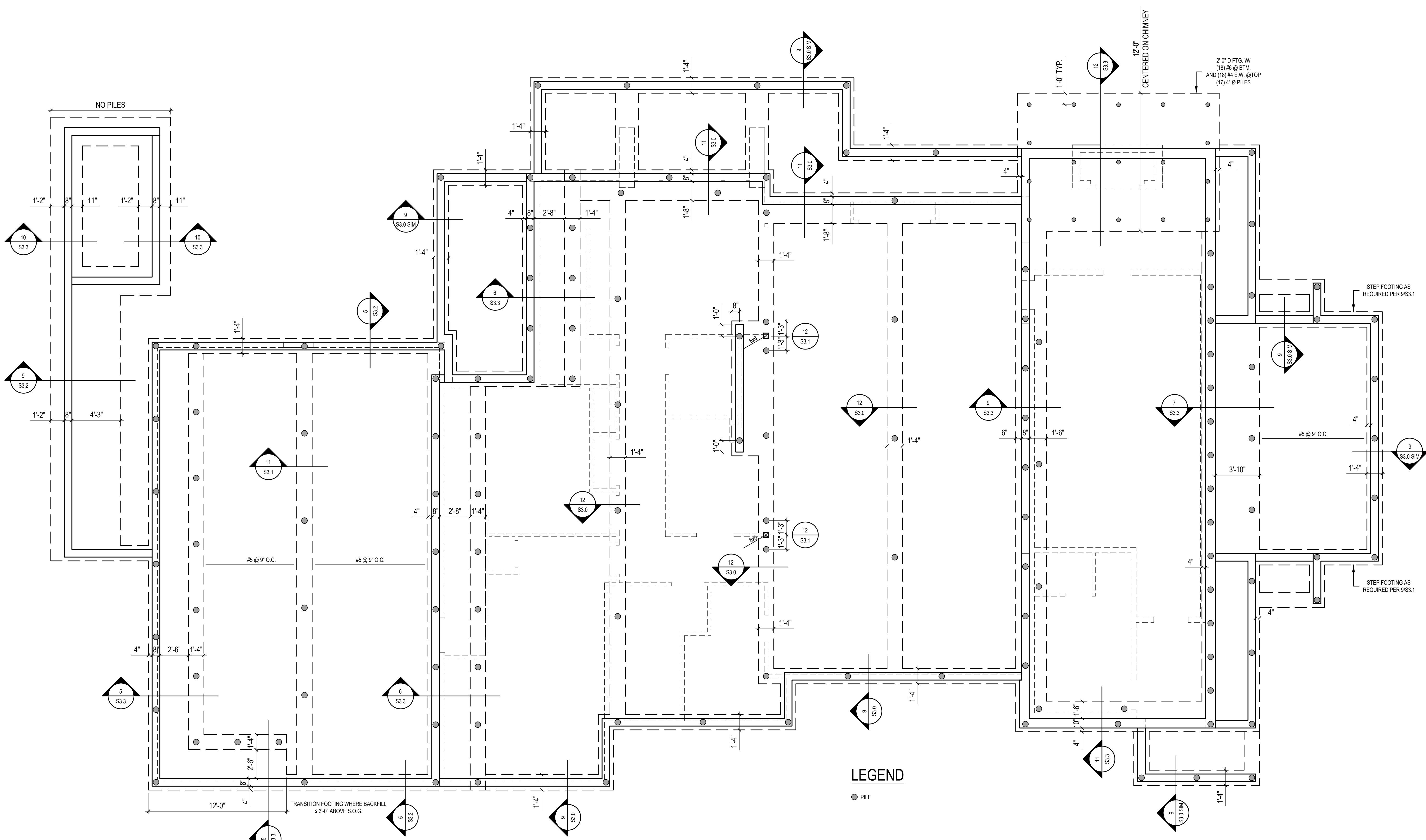




# FOUNDATION PLAN

REVISIONS:	
1	CORRECTION 1/2022-7-18
PLOT DATE:	8/8/2022
DRAWN BY:	JM
CHECKED BY:	BJS
SHEET	S2.0

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 CORRECTION SET 8/8/2022



## 1 FOUNDATION PLAN

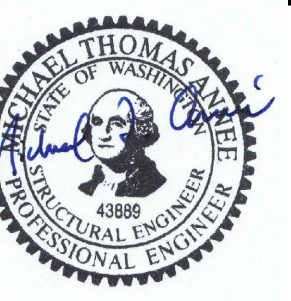
SCALE: 1/4" = 1'-0"

### LEGEND

● PILE

### FOUNDATION NOTES:

1. STRUCTURAL SLAB ON GRADE SHALL BE MIN. 6" THICK W/ #5 @ 9" OC REINF. AT CENTERLINE IN PRIMARY DIRECTION AND #4 @ 18" OC IN TRANSVERSE DIR.
2. - INDICATES ANCHOR ROD/HOLDOWN LOCATED AT END OF SHEAR WALL ABOVE, SEE SCHEDULE ON 4/S1.1.
3. - INDICATES 4" DIAMETER, SCHEDULE 40, GALVANIZED PIN PILE (10 TON), WITH AN ESTIMATED TOTAL LENGTH BETWEEN 20'-25'. TESTING SHALL BE IN ACCORDANCE WITH ASTM D 1143-81. LOAD TEST A MINIMUM OF 3% OR ONE PILE, WHICHEVER IS GREATER, TO 200% OF THE DESIGN CAPACITY. THE GEOTECHNICAL INSPECTOR SHALL BE CONTINUOUSLY PRESENT DURING PIN PILE INSTALLATION AND TESTING.
- 4.



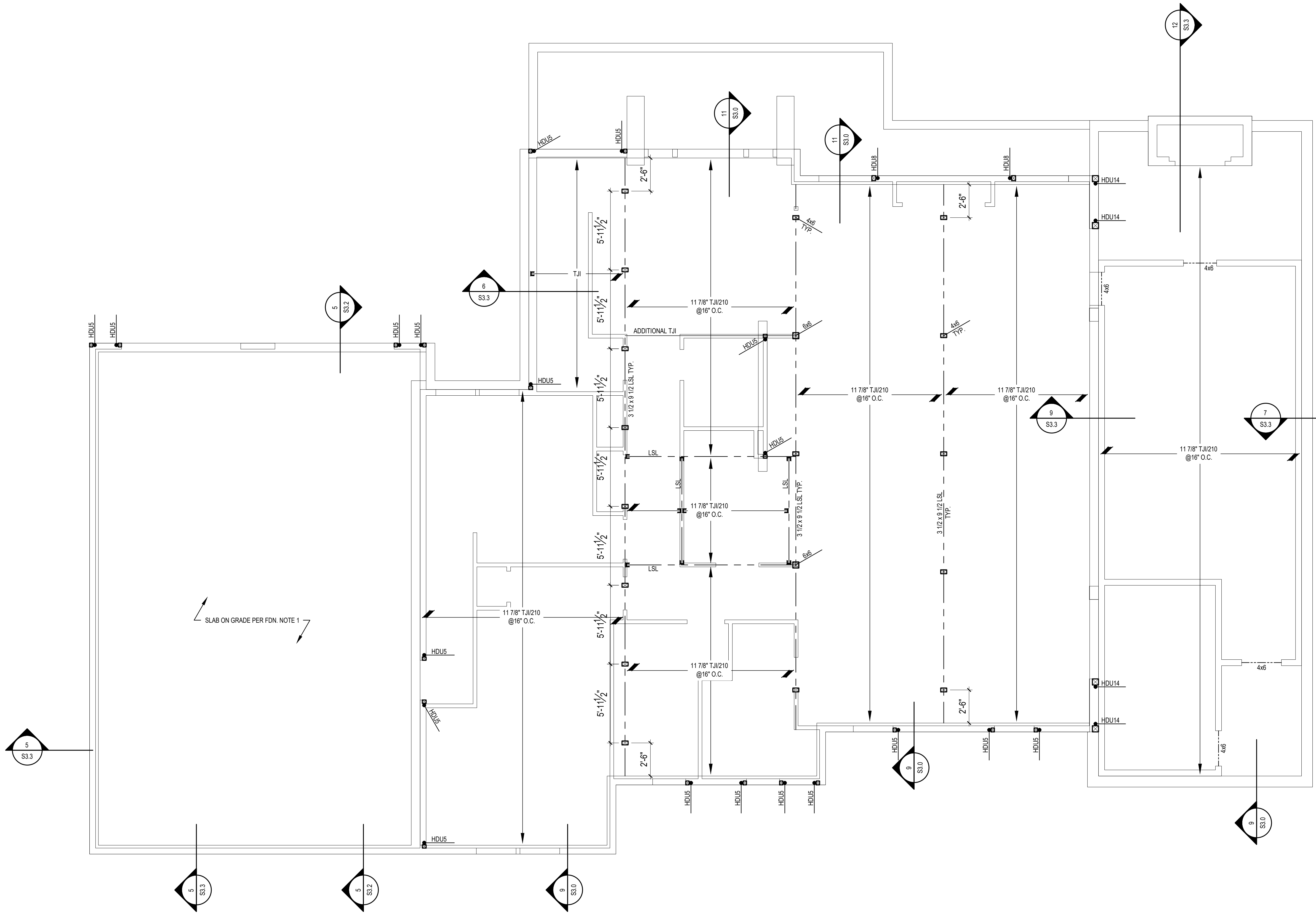
MAIN FLOOR FRAMING

REVISIONS:

1	CORRECTION 1.1.2022.7-18
2	
3	
4	
5	

PLOT DATE: 8/8/2022  
 DRAWN BY: JM  
 CHECKED BY: BJS

SHEET  
**S2.1**



GENERAL FRAMING NOTES:

- ALL BEAMS SHALL BE FLUSH AND ALL HEADERS DROPPED, UNO. TYPICAL POST-TO-BEAM CONNECTIONS SHALL BE AC/BC/PC POST CAP AND/OR POST BASE.
- TYPICAL HEADERS SHALL BE 4x6 DF#2, UNO. SEE 2/S3.2 FOR TYPICAL INSTALLATION.
- PROVIDE (2) BEARING STUDS UNDER EACH END OF ALL BEAMS AND (1) 2x TRIMMER (BEARING) STUD AND (1) 2x KING (FULL-HEIGHT) STUD AT EACH END OF ALL HEADERS, UNO. NAIL STUDS TOGETHER PER GENERAL STRUCTURAL NOTES.
- PROVIDE SOLID BEARING BELOW ALL POINT LOADS ABOVE.
- STUD WALLS SHALL BE 2x HF STUDS @ 16"oc, UNO. SEE SHEAR WALL, HOLDDOWN AND STRAP SCHEDULES ON S1.1 FOR ADDITIONAL REQUIREMENTS AT SHEAR WALL FRAMING.
- AT BREAKS IN DOUBLE TOP PLATE OF ALL EXTERIOR WALLS AND ALL SHEAR WALLS SEE DETAIL 3/S1.1.
- SW-X INDICATES SHEAR WALL PER SCHEDULE 1/S1.1. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. ALL NEW, EXTERIOR WALLS SHALL BE SHEATHED PER SW6, UNO.
- REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

FLOOR FRAMING NOTES:

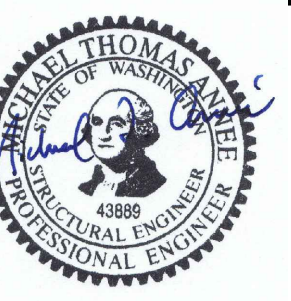
- FLOOR SHEATHING SHALL BE MIN 3/4" APA RATED SHEATHING (48/24). NAIL @ ALL PANEL EDGES AND OVER ALL SHEAR WALLS w/0.113" @ 6"oc AND 12"oc TO ALL INTERMEDIATE FRAMING. PLACE LONG DIRECTION OF PLYWOOD PERPENDICULAR TO JOISTS DIRECTION, STAGGER PANEL JOINTS.
- TYPICAL FLOOR FRAMING SHALL BE 11-7/8" TJI/210 @ 16"oc, DIRECTION PER PLAN. JOIST TO SPAN CONTINUOUS AS INDICATED ON PLAN.
- LSL - INDICATES FLUSH-FRAMED 1-3/4x11-3/8 LSL BEAM. ALL JOISTS AND 11-7/8" DEEP BEAMS SHALL BE FLUSH-FRAMED & ALL 4x HEADERS/GLULAM BEAMS SHALL BE DROPPED UNO.
- INDICATES HOLDDOWN LOCATED AT END OF SHEAR WALL ABOVE, SEE SCHEDULE ON 4/S1.1.
- INDICATES STRAP AT END OF SHEAR WALL ABOVE, SEE SCHEDULE ON 2/S1.1.

MEMBER	HANGER
2x8/2x12	LUS
14" TJI/210	IUS/ITS3.06/14
14" TJI/560	IUS/ITS3.56/14
1-3/4x14 LSL/LVL	HUS1.81/10
3-3/4x14 LSL/PSL	HHUS410
5-3/4x14 PSL	HGUS5.510
11-7/8" TJI/210	IUS/ITS2.06/11.88
1-3/4x11-3/8 LSL/LVL	HUS1.81/10
3-3/4x11-3/8 LSL/PSL	HHUS410

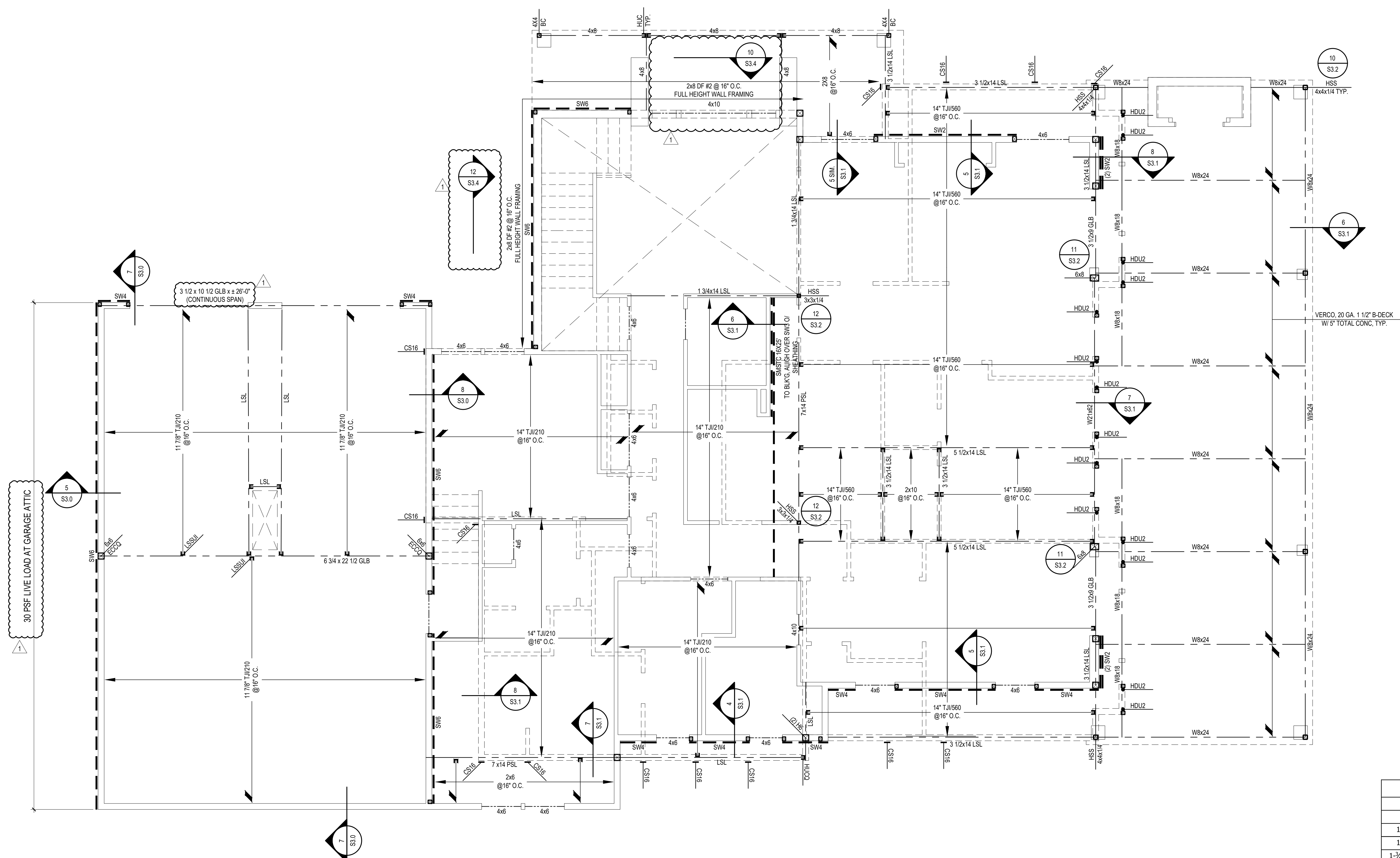
**1 MAIN FLOOR FRAMING**  
 SCALE: 1/4" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36" IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 CORRECTION SET 8/8/2022

SLAB ON GRADE PER FDN. NOTE 1



**UPPER FLOOR FRAMING**



**1 UPPER FLOOR FRAMING**  
 SCALE: 1/4" = 1'-0"

HANGER SCHEDULE	
MEMBER	HANGER
2x8/2x12	LUS
14" TJI/210	IUS/ITS2.06/14
14" TJI/560	IUS/ITS3.56/14
1-3/4"x14 LSL/LVL	HUS1.81/10
3-1/2"x14 LSL/PSL	HHUS410
5-3/8"x14 PSL	HGUS5.510
11-3/8" TJI/210	IUS/ITS2.06/11.88
1-3/4"x11-3/8" LSL/LVL	HUS1.81/10
3-1/2"x11-3/8" LSL/PSL	HHUS410

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 CORRECTION SET 8/8/2022

REVISIONS:	
1	CORRECTION 1.2022.7-18
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

PLOT DATE: 8/8/2022  
 DRAWN BY: JM  
 CHECKED BY: BJS  
 SHEET: **S2.2**

**Prefabricated Connector Plate Wood Roof Trusses**  
 Prefabricated wood trusses shall be metal plate connected wood trusses designed and fabricated in accordance with the current ANSI/TPI.1. The trusses shall be designed to support their own weight plus superimposed dead, live, uplift and lateral loads including, but not limited to the loads below:

- top chord snow load 25 psf unless otherwise noted in the load criteria
- top chord dead load 10 psf
- bottom chord dead load 10 psf
- bottom chord live load 10 psf (uninhabitable attics w/o storage)
- bottom chord live load 20 psf (uninhabitable attics w/light storage or uninhabitable attics w/o storage, but containing areas where the clear distance between the top and bottom chords is greater than or equal to 42" for a horizontal distance of 24" involving (2) or more trusses)

The bottom chord live load does not act concurrently with the roof live or snow load.

See Architectural and mechanical drawings for sprinkler and mechanical equipment loading and for wind uplift (top chord) per ASCE 7-10, use components and cladding loads, see loading criteria.

All top and bottom chord splices shall be connected with approved metal press plates and tension tested to a minimum of 1.2 times the allowable tension parallel to the grain per NDS specifications. Dead load combined with live load deflections shall be limited to span/240 (span/120 at cantilevered members). Live load deflections of members shall be limited to span/360 (span/180 at cantilevered members). Truss load duration factor shall be per the current edition of the NDS.

The truss manufacturer shall be responsible for the complete design, fabrication and erection procedures for all trusses, blocking, incidental framing, framing for openings, temporary and permanent member lateral restraint and bracing, bridging, connections, holdown anchors, and all other items required for a complete and safe installation of the truss system. Truss Configurations are shown on the Architectural or structural drawings. The truss manufacturer shall have at least 3 years experience in the fabrication of prefabricated wood trusses.

Design of trusses shall consider deflection of trusses relative to adjacent parallel supports and include design of bridging, bracing, additional trusses or other means necessary to alleviate problems resulting from differential deflections.

Contractor shall submit design calculations and truss design drawings (sealed by a licensed Engineer in the governing jurisdiction) and a truss placement diaphragm in accordance with the Deferred Submittal Section to the Architect and Structural Engineer of Record. Design calculations and truss design drawings shall be approved by the Architect and the building official prior to manufacturing the trusses. The truss placement diagram shall identify the proposed location for each individually designated truss and reference the corresponding truss design drawing. The diagram shall be provided as part of the truss submittal package and included with the shipment of trusses delivered to the job site. The location, direction and span of the trusses shall match the permit documents or a separate Substitution request shall be made to the Architect/SER prior to the issuance of the Deferred Submittal.

Truss design drawings are the written, graphic and pictorial depiction of each individual truss. Truss design drawings shall be provided with the shipment of trusses delivered to the job site. Truss design drawings shall include, at a minimum, the following:

- A. Truss profiles showing slope or depth, span and spacing;
- B. Location of joints;
- C. Required bearing widths;
- D. Design loads as applicable;
- E. Top chord live load, (including snow loads);
- F. Top chord dead load;
- G. Bottom chord live load;
- H. Bottom chord dead load;
- I. Concentrated loads and their points of application as applicable;
- J. Controlling wind and earthquake loads as applicable;
- K. Adjustments to lumber and metal connector plate design value for conditions if used;
- L. Each reaction force and direction;
- M. Metal connector plate type, size, thickness or gage, and the dimensioned location of each metal connector plate except where symmetrically located relative to the joist interface. Provide the ICC report for plates used;
- N. Lumber size, species and grade for each member;
- O. Connection details for all truss to truss (including any combination of truss, girder truss, hip truss and hip girders); truss ply to ply; truss to column/beam, and field assembly of a truss when the truss shown on the individual truss design drawing is supplied in separate pieces that will be field connected.
- P. Calculated deflection ratio and maximum vertical and horizontal deflection for live and total load as applicable;
- Q. Maximum axial tension and compression forces in the truss members; and
- R. Required permanent individual truss member lateral restraint and bracing per 2006 IBC section 2303.4.1.2, unless a specific truss member permanent bracing plan and details for the roof or floor structural system are provided by a registered design professional.

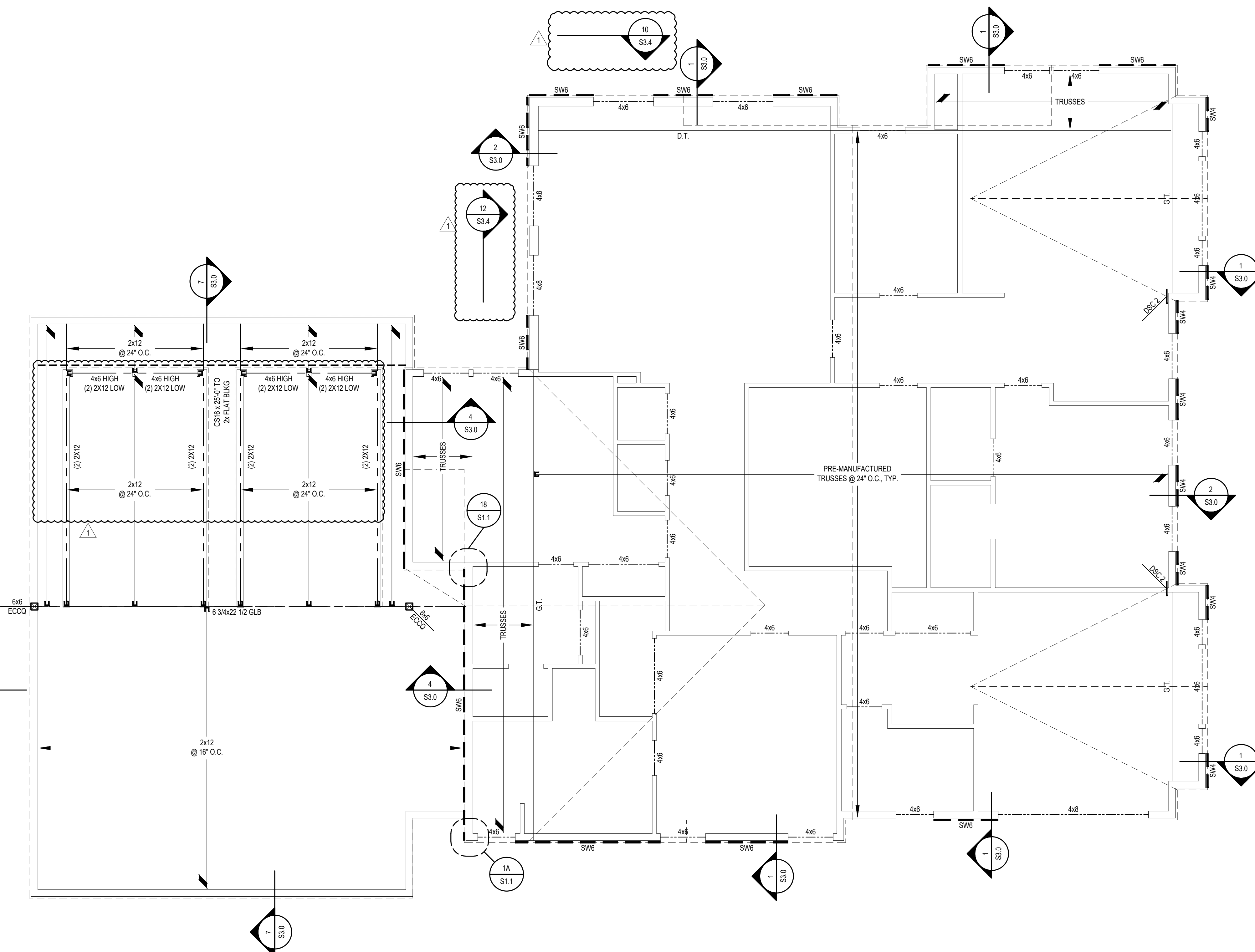
Where permanent individual member lateral restraint and bracing of truss members is required on the truss design drawings, it shall be accomplished by one of the following methods:

- A. The trusses shall be designed so that the buckling of any individual truss member can be resisted internally by the structure (e.g. Buckling member T-bracing, I-bracing, etc.) of the individual truss. The truss individual member buckling reinforcement shall be installed as shown on the truss design drawing or on supplemental truss member buckling reinforcement diagrams provided by the truss designer.
- B. Permanent individual member lateral restraint and bracing shall be installed by the contractor using standard industry bracing details that conform to generally accepted engineering practice. Individual truss member continuous lateral bracing locations(s) shall be shown on the truss design drawing(s).

Erection bracing and bridging sizes and spacing shall be as required by the truss manufacturer in accordance with the latest recommendations of the Truss Plate Institute (TPI). Install and lap bracing and bridging per latest TPI recommendations.

Truss members and components shall not be cut, notched, drilled, spliced or otherwise altered in any way without written consent and approval of a registered design professional. New load or changes in loads resulting in the addition of loads to any truss (e.g., HVAC equipment, water heater, piping, ducts, etc.) shall not be permitted without verification that the truss is capable of supporting such additional loading.

A special inspector approved by the building official shall verify that the truss manufacturer maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to approved construction documents and referenced standards. The special inspector shall review the procedures for completeness and adequacy relative to the code requirements for the fabricator's scope of work. Each wood truss member shall carry a grading stamp.



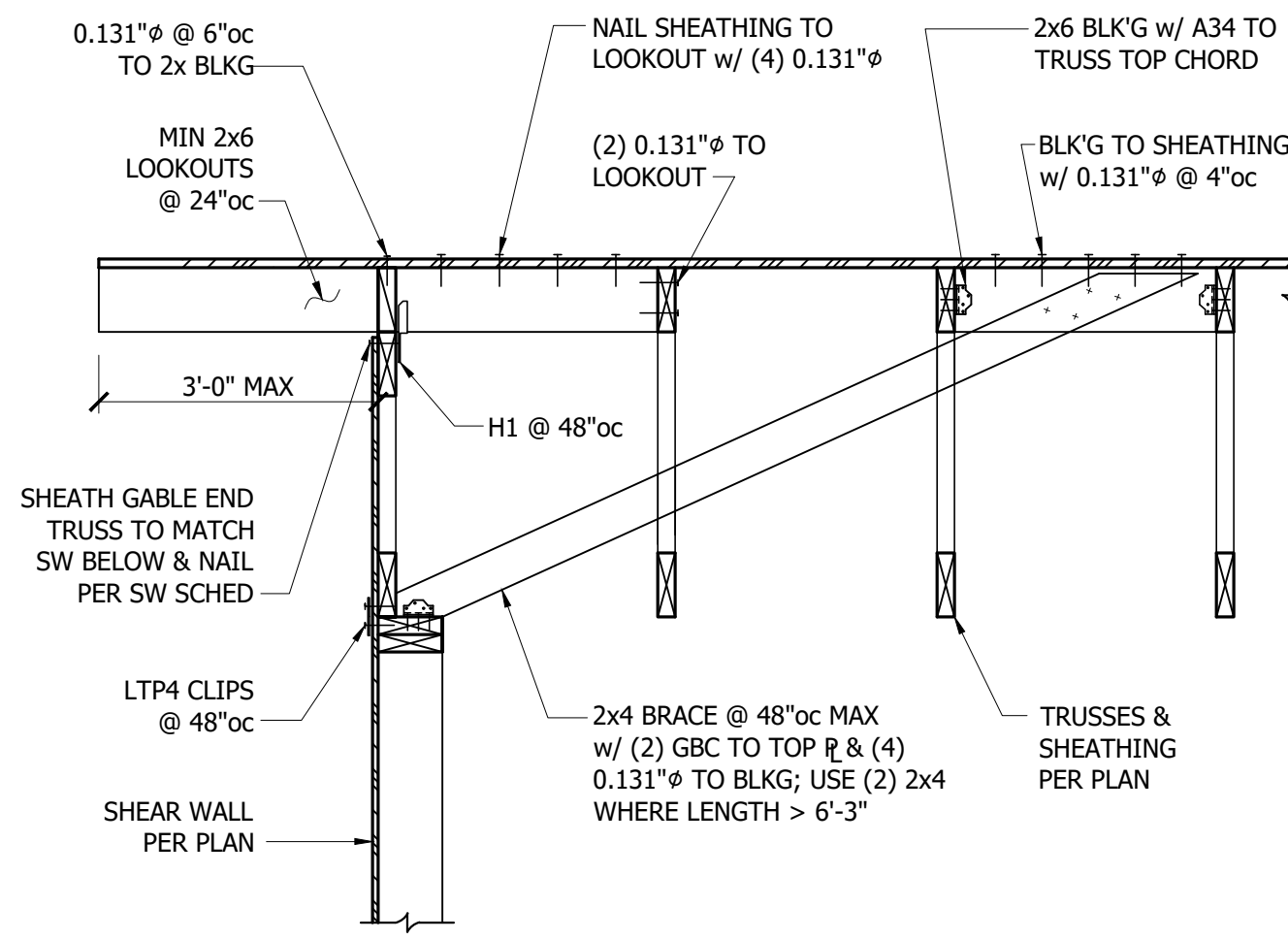
**ROOF FRAMING NOTES:**

1. ROOF SHEATHING SHALL BE 1/2" APA RATED SHEATHING (32/16). NAIL @ ALL FRAMED PANEL EDGES AND OVER ALL SHEAR WALLS w/0.131" @ 6" oc AND 12" oc TO ALL INTERMEDIATE FRAMING. PLACE LONG DIRECTION OF PLYWOOD PERPENDICULAR TO JOISTS DIRECTION, STAGGER PANEL JOINTS.
2. TYPICAL ROOF FRAMING SHALL BE PRE-MANUFACTURED MENDING PLATE TRUSSES @ 24" oc UNO.
3. DT - INDICATES DRAG TRUSS. TRUSS SHALL BE ENGINEERED TO TRANSFER LATERAL FORCE NOTED ON PLANS FROM ENTIRE LENGTH OF TOP CHORD TO SHEAR WALL ALIGNED AT BOTTOM CHORD. NAIL SHEATHING OVER ENTIRE LENGTH w/0.131" @ NAILS @ 6" oc.
4. GT - INDICATED GIRDER TRUSS PER MANUFACTURER.
5. CONTRACTOR TO SUBMIT COPY OF FINAL TRUSS DESIGN SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

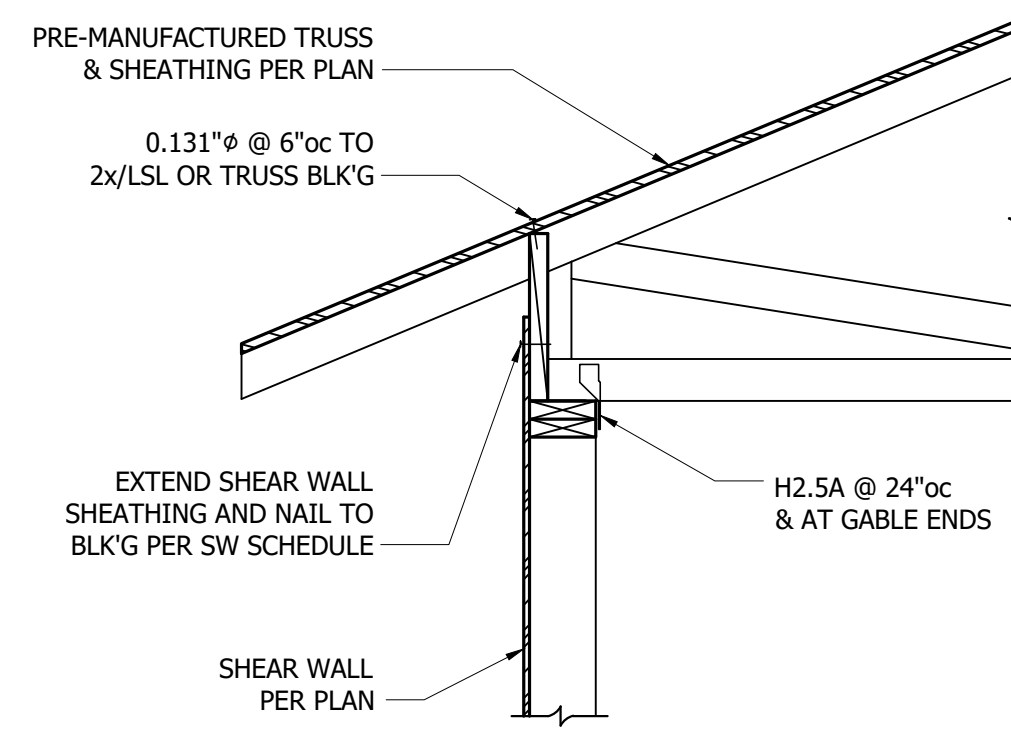
HANGER SCHEDULE	
MEMBER	HANGER
2x8/2x12	LUS
14" TJI/210	IUS/ITS2.06/14
14" TJI/560	IUS/ITS3.56/14
1-3/4"x14 LSL/LVL	HUS1.81/10
3-3/8"x14 LSL/PSL	HHUS410
5-3/8"x14 PSL	HGUS5.510
11-7/8" TJI/210	IUS/ITS2.06/11.88
1-3/4"x11-7/8 LSL/LVL	HUS1.81/10
3-3/8"x11-7/8 LSL/PSL	HHUS410

**1 ROOF FRAMING PLAN**  
 SCALE: 1/4" = 1'-0"

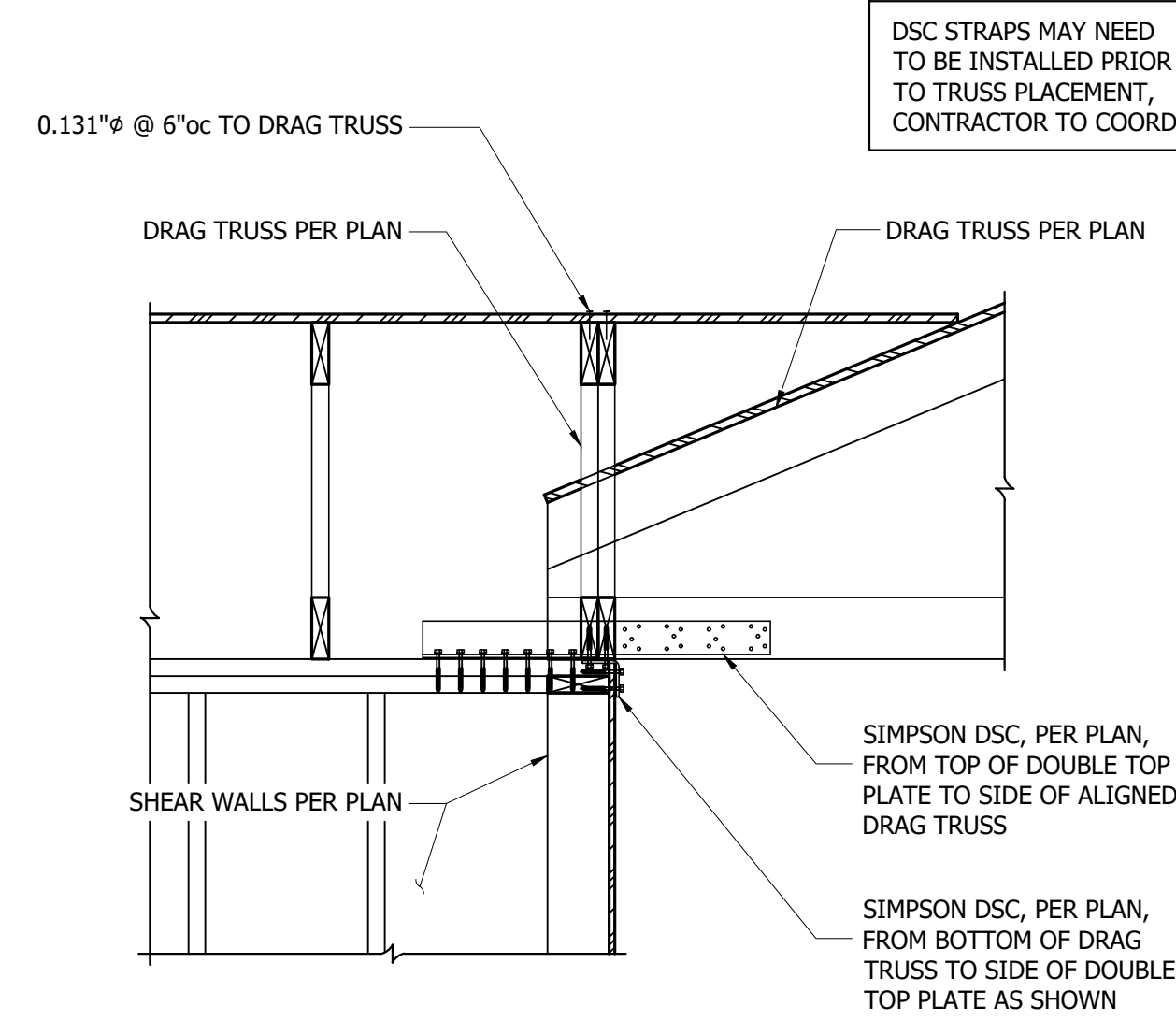
SCALE: IF SHEET IS LESS THAN 24" x 36" IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
 CORRECTION SET 8/8/2022



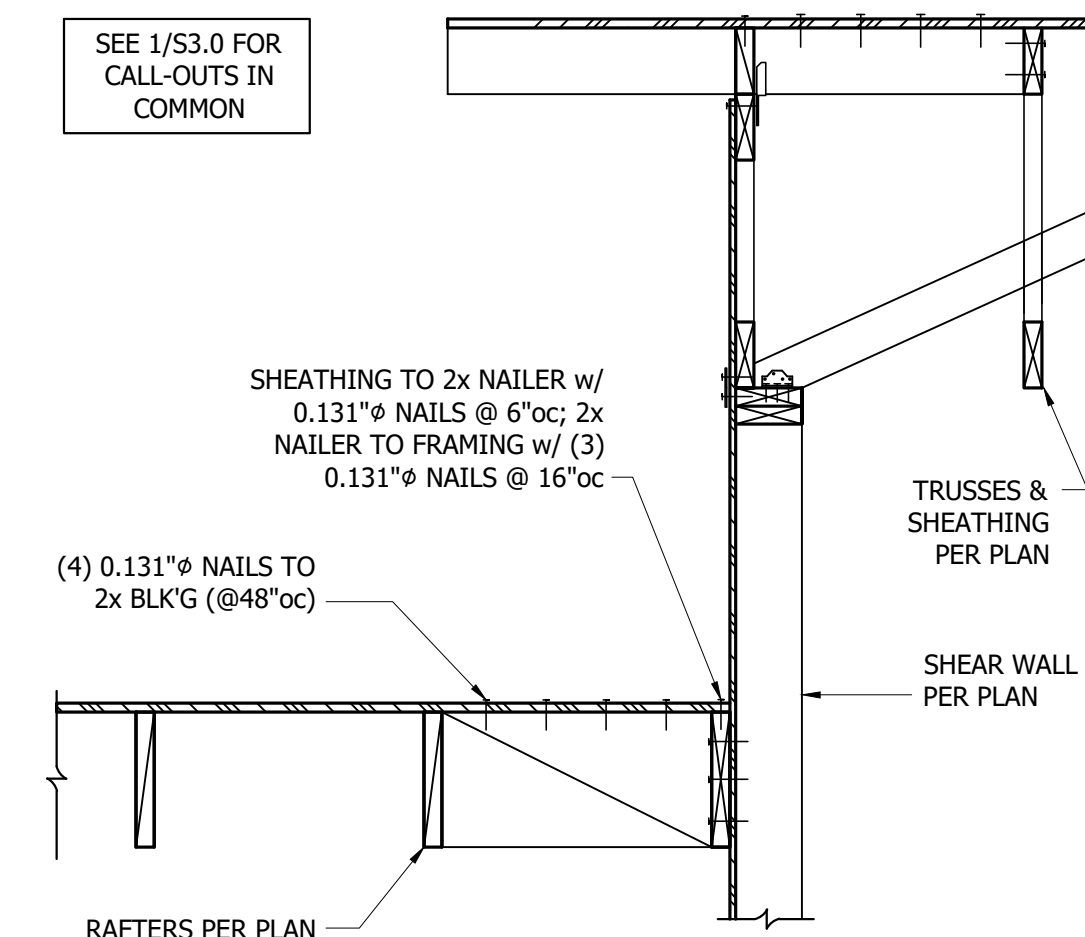
1 Trusses Parallel to Exterior Wall  
3/4" = 1'-0"



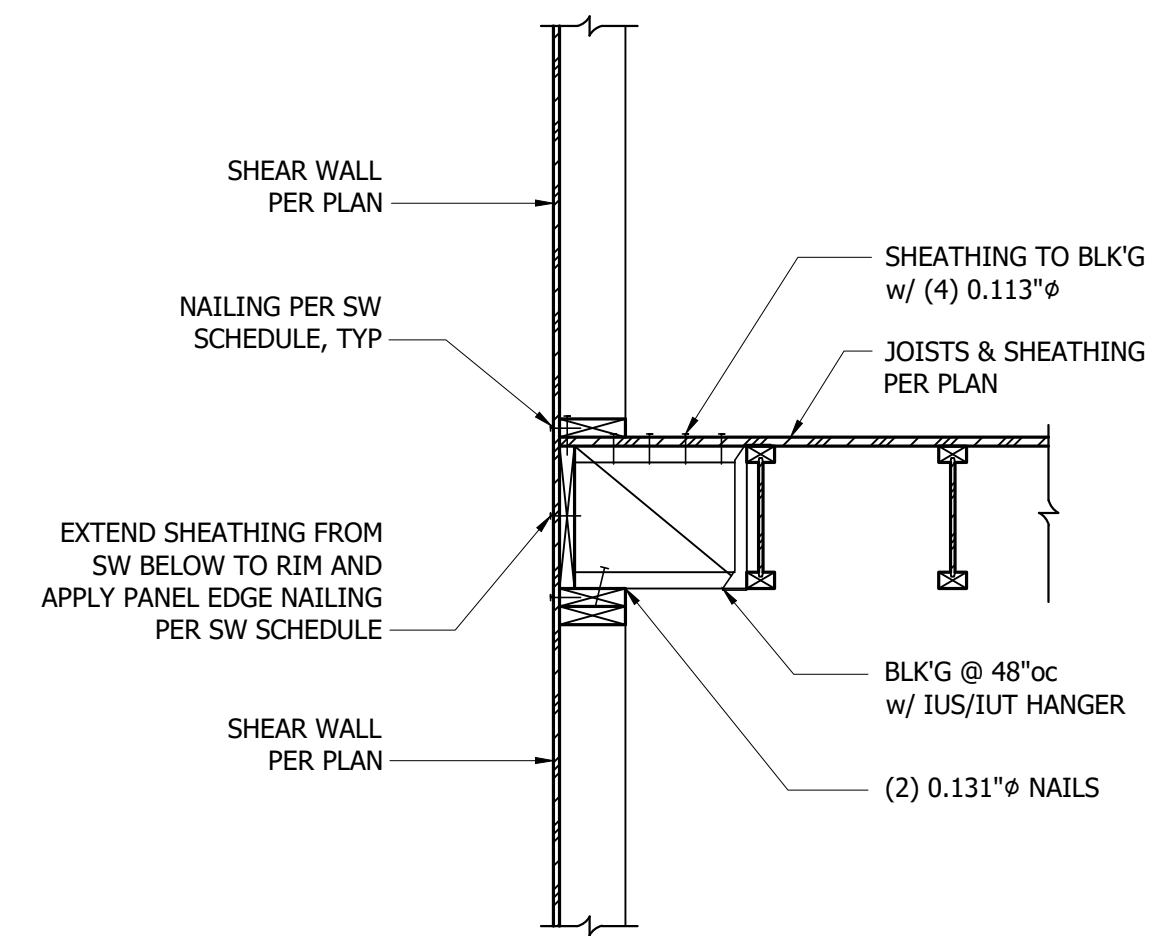
2 Trusses Perpendicular to Exterior Wall  
3/4" = 1'-0"



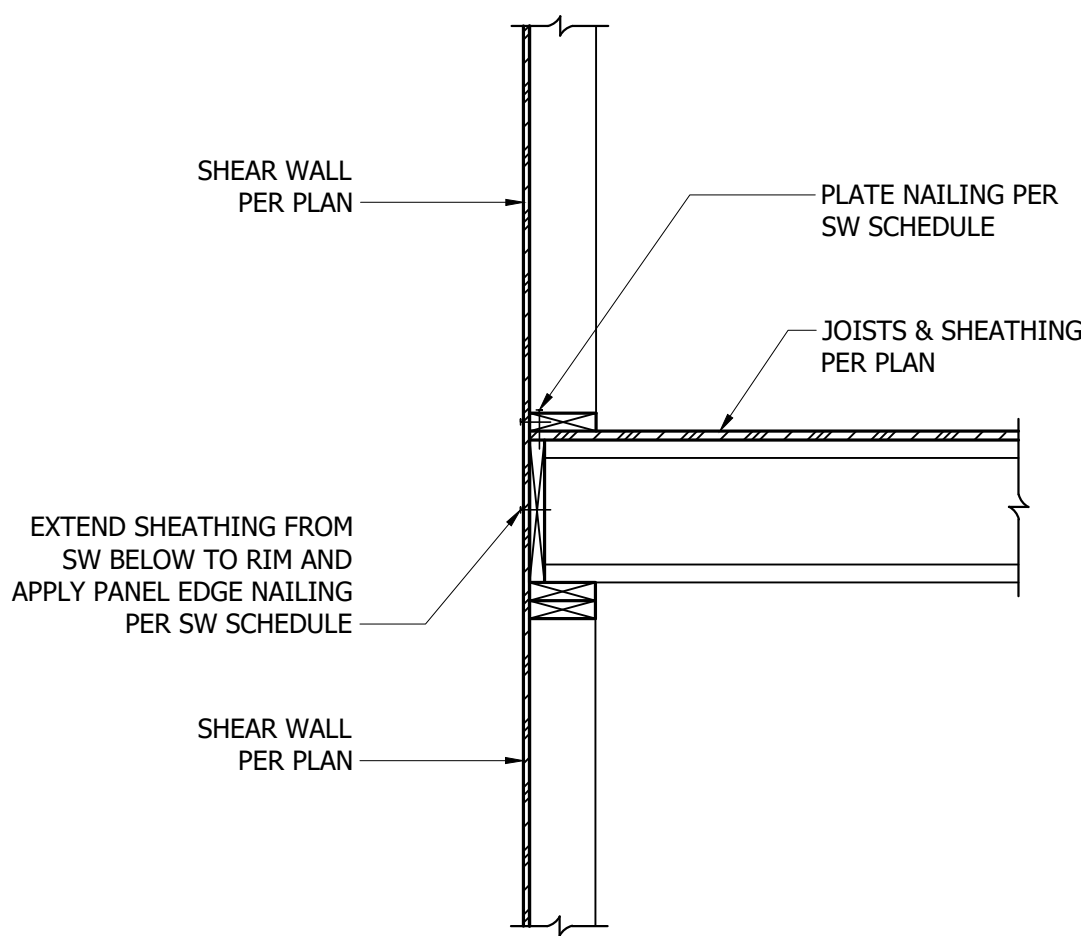
3 Drag Struts to Shear Walls  
3/4" = 1'-0"



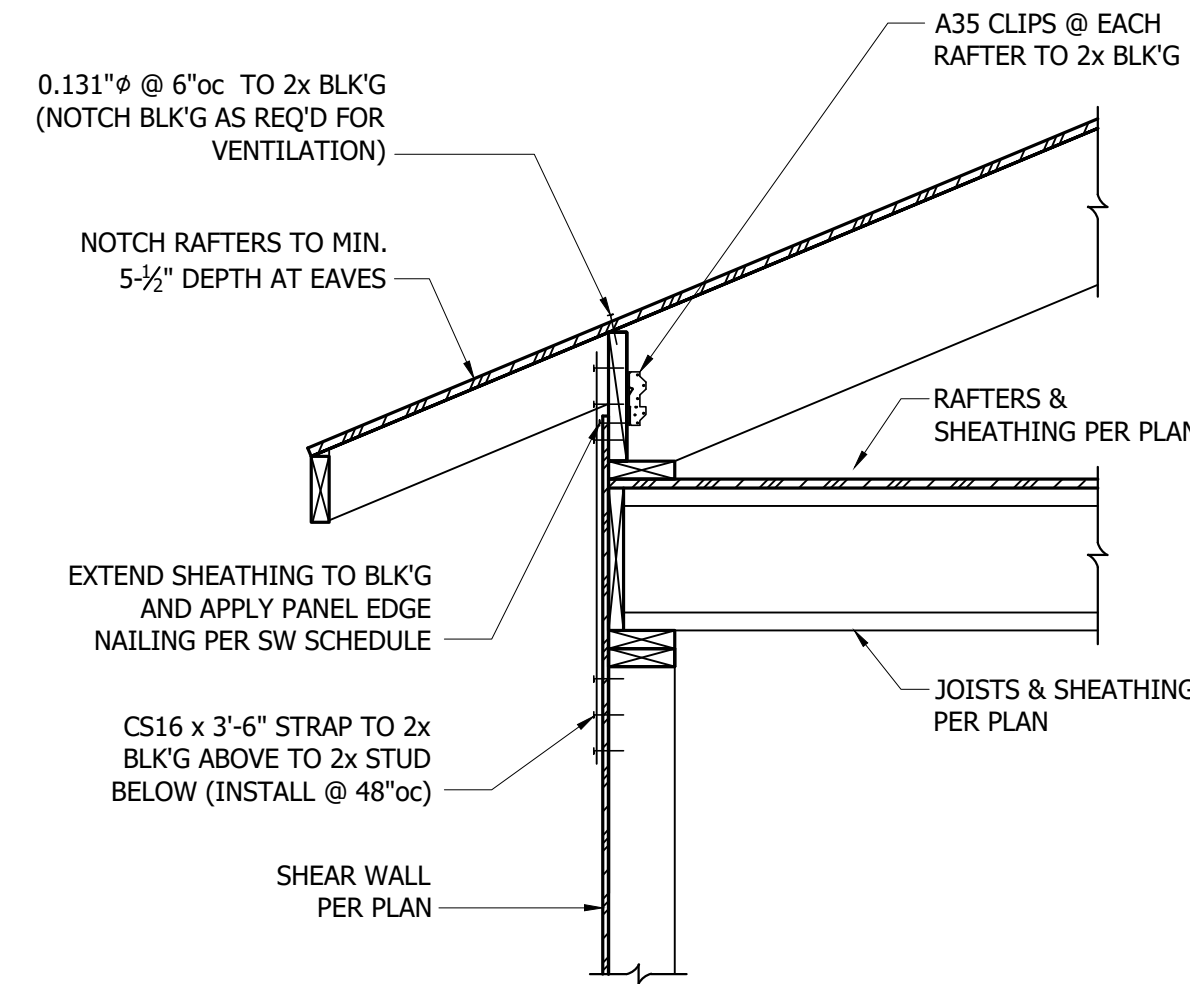
4 Trusses Parallel to Exterior Wall  
3/4" = 1'-0"



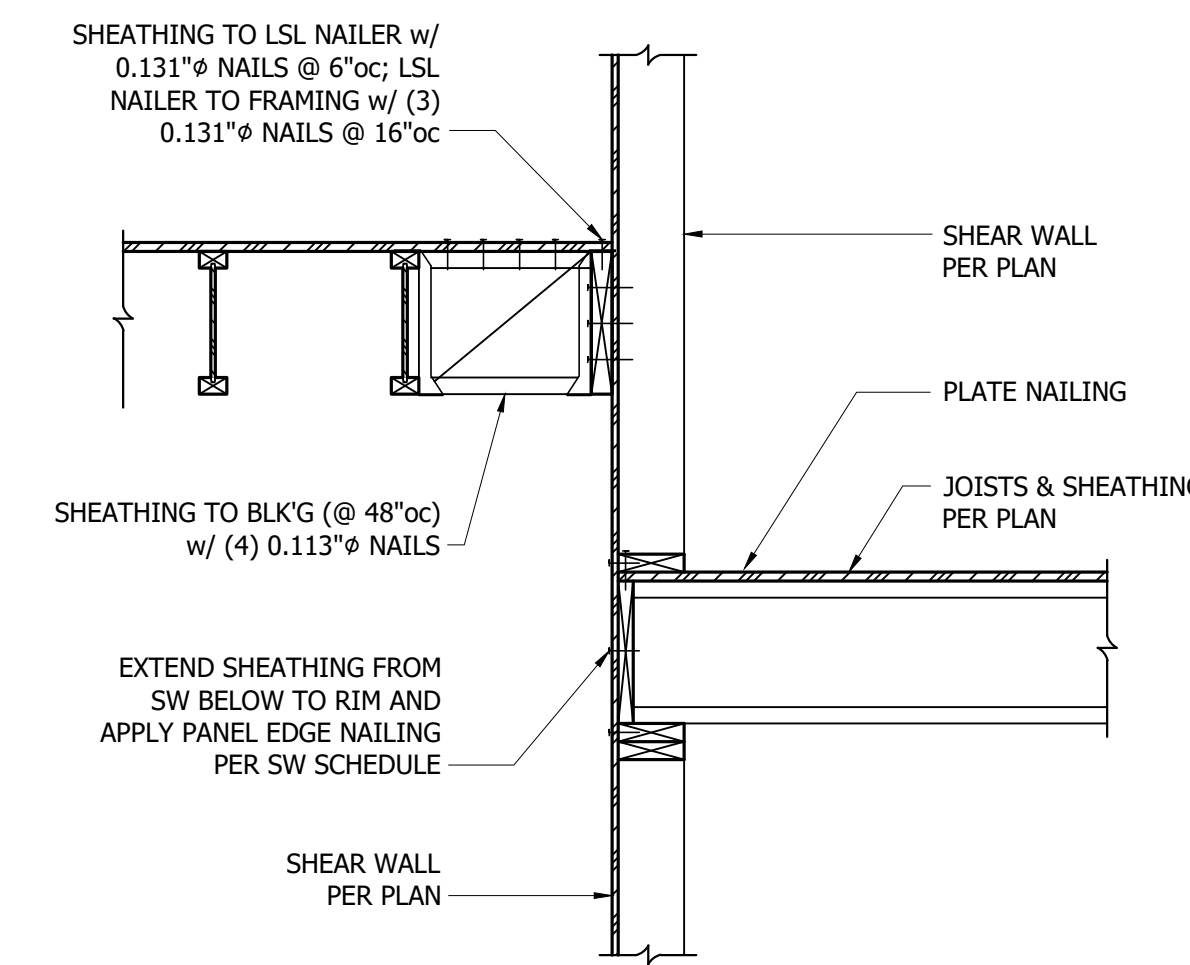
5 TJI Joists Parallel to Exterior Wall  
3/4" = 1'-0"



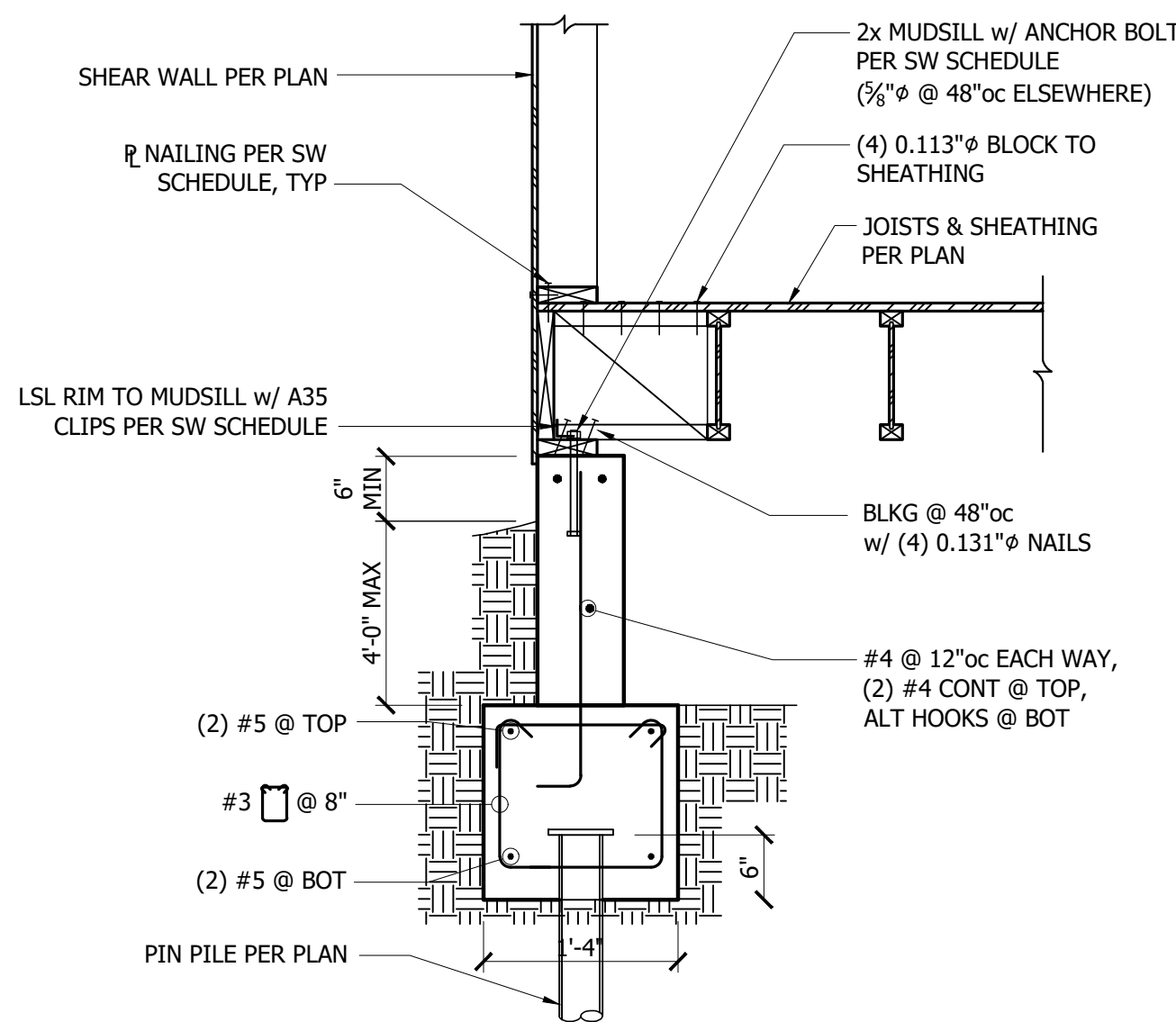
6 TJI Joists Perpendicular to Exterior Wall  
3/4" = 1'-0"



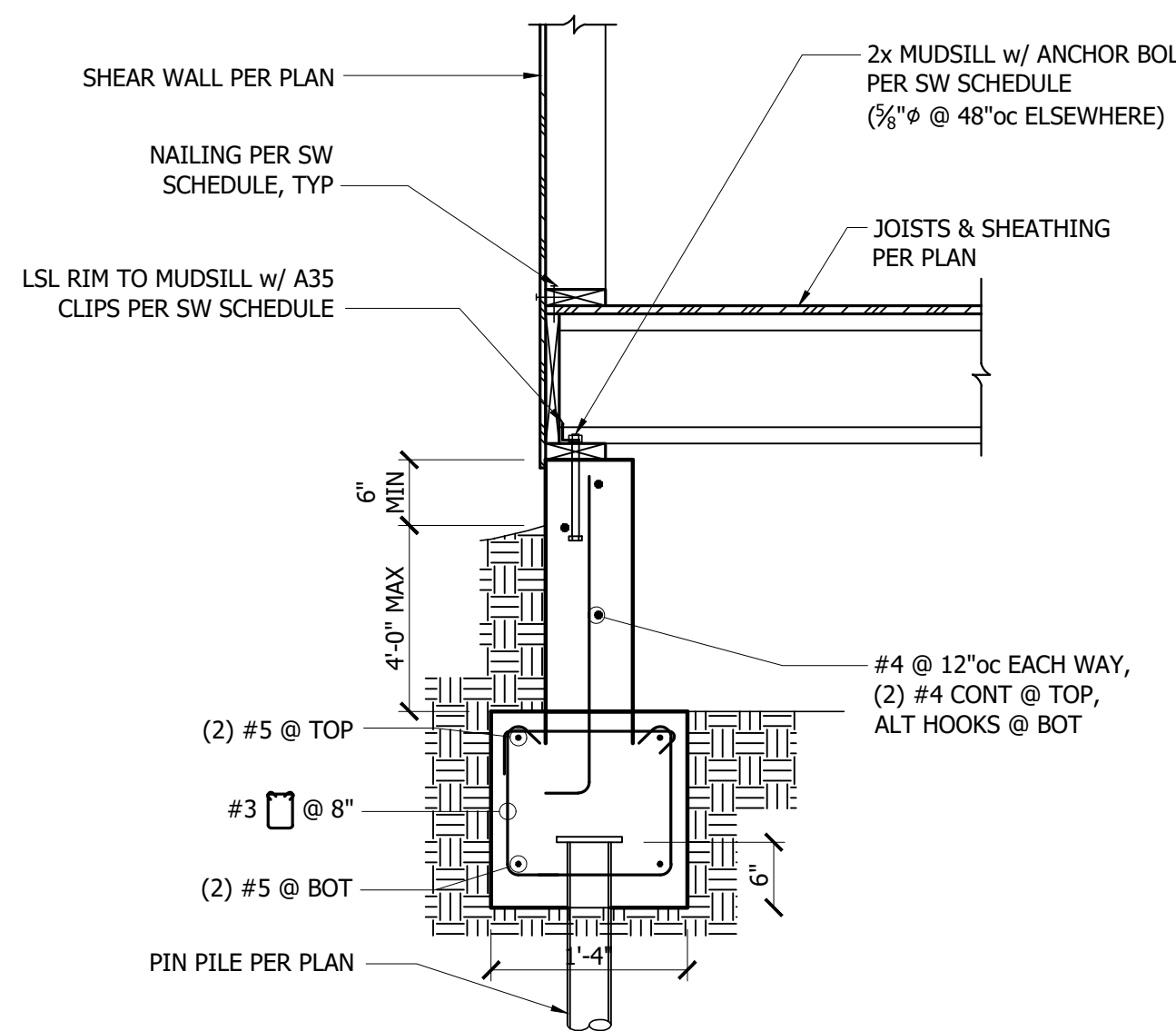
7 Low Roof over Floor Framing  
3/4" = 1'-0"



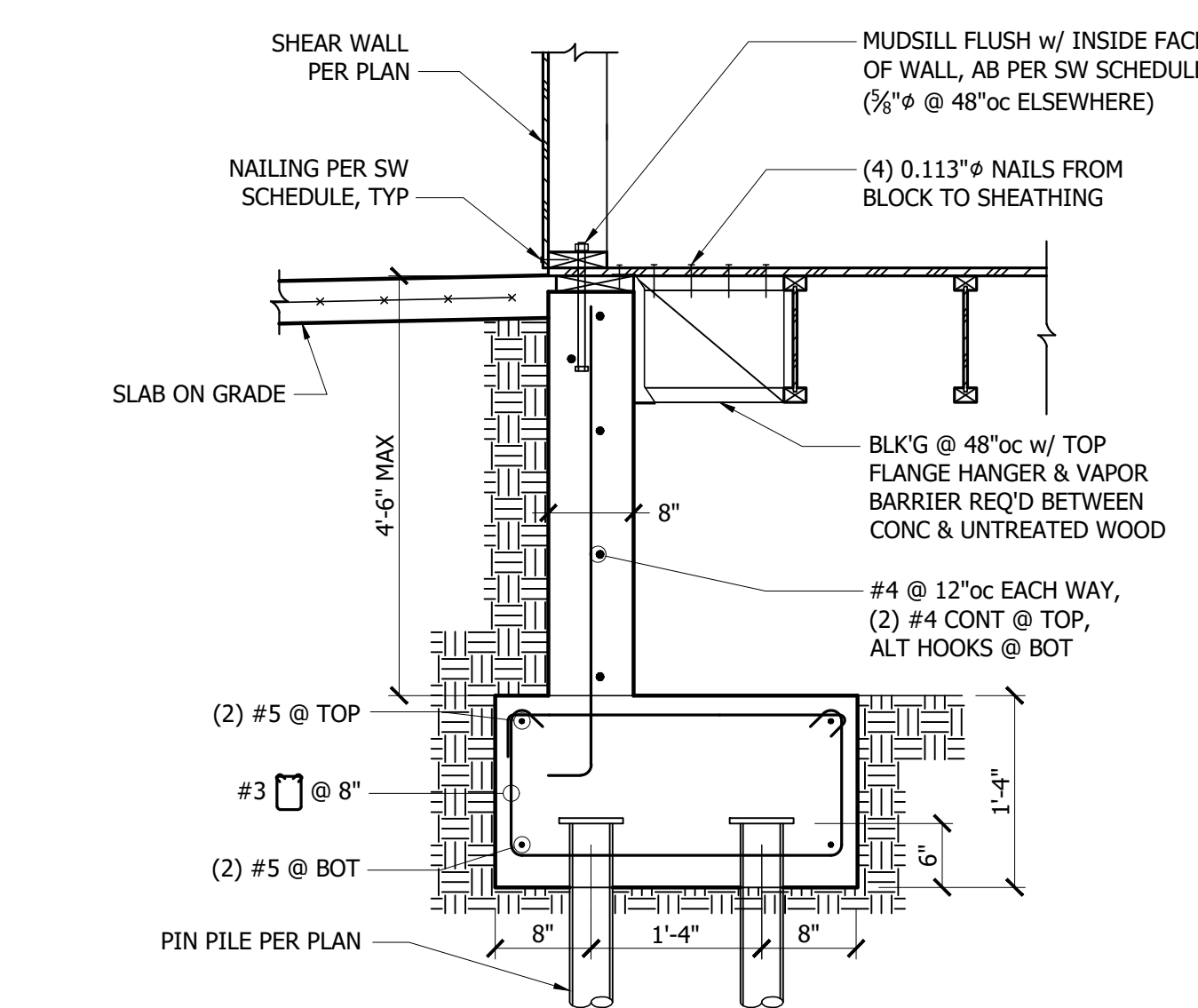
8 Change in Elevation/Direction of Floor Joist  
3/4" = 1'-0"



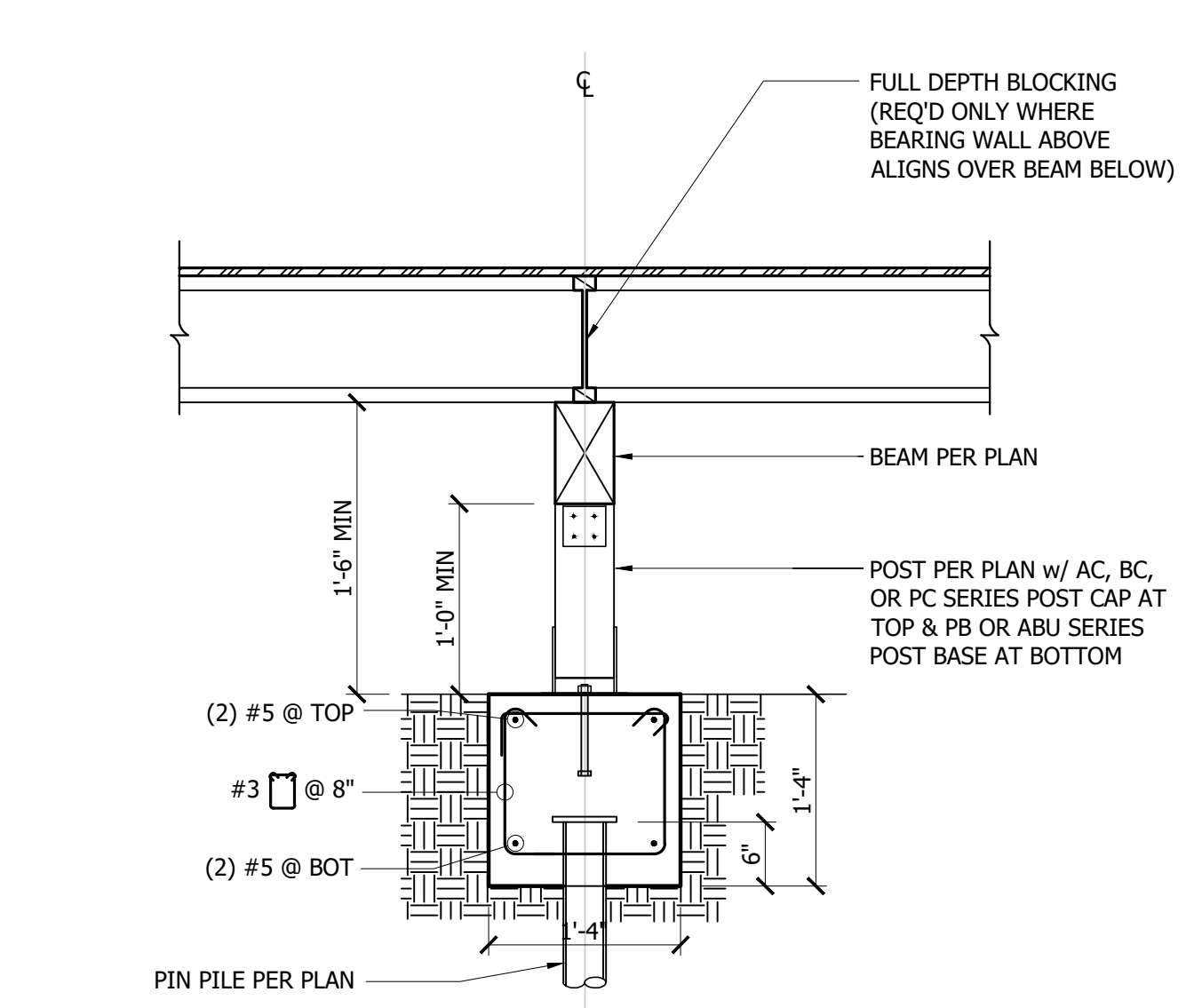
9 Grade Beam Foundation, Parallel to TJI Joists  
3/4" = 1'-0"



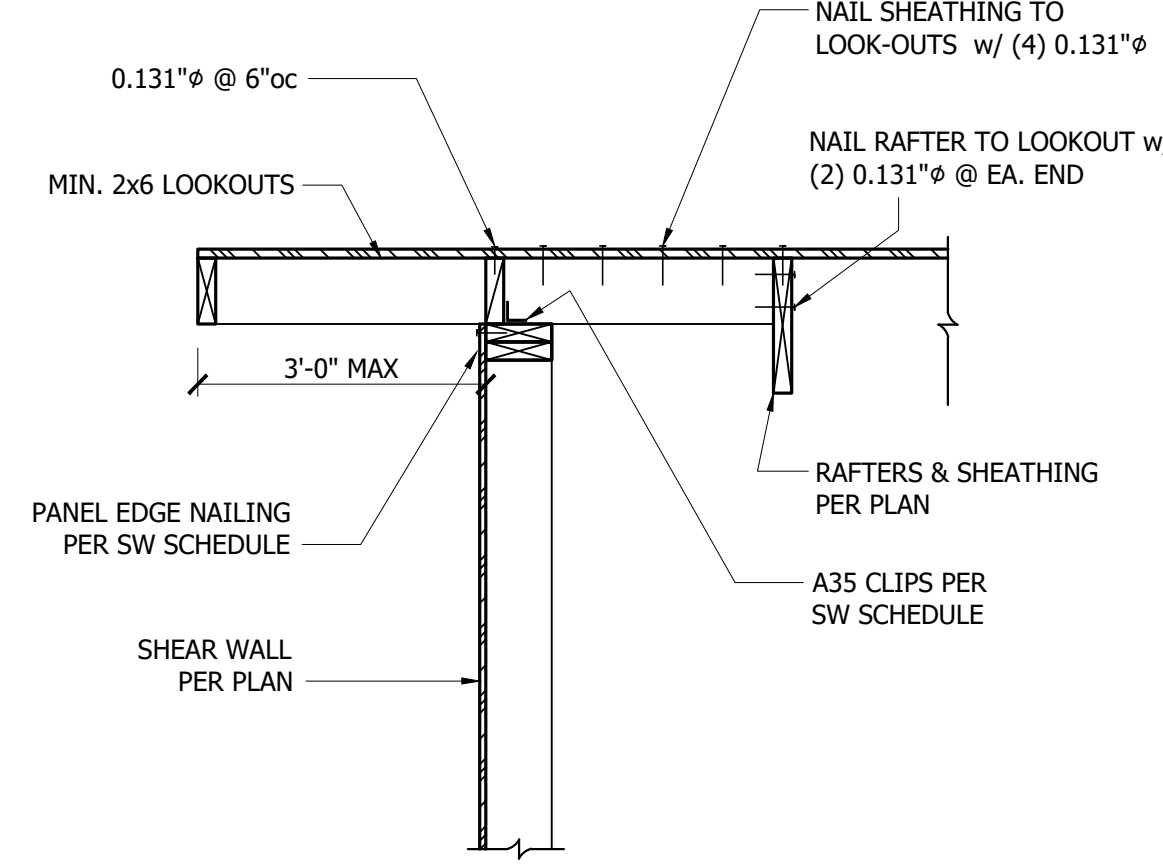
10 Grade Beam Foundation, Perp. to TJI Joists  
3/4" = 1'-0"



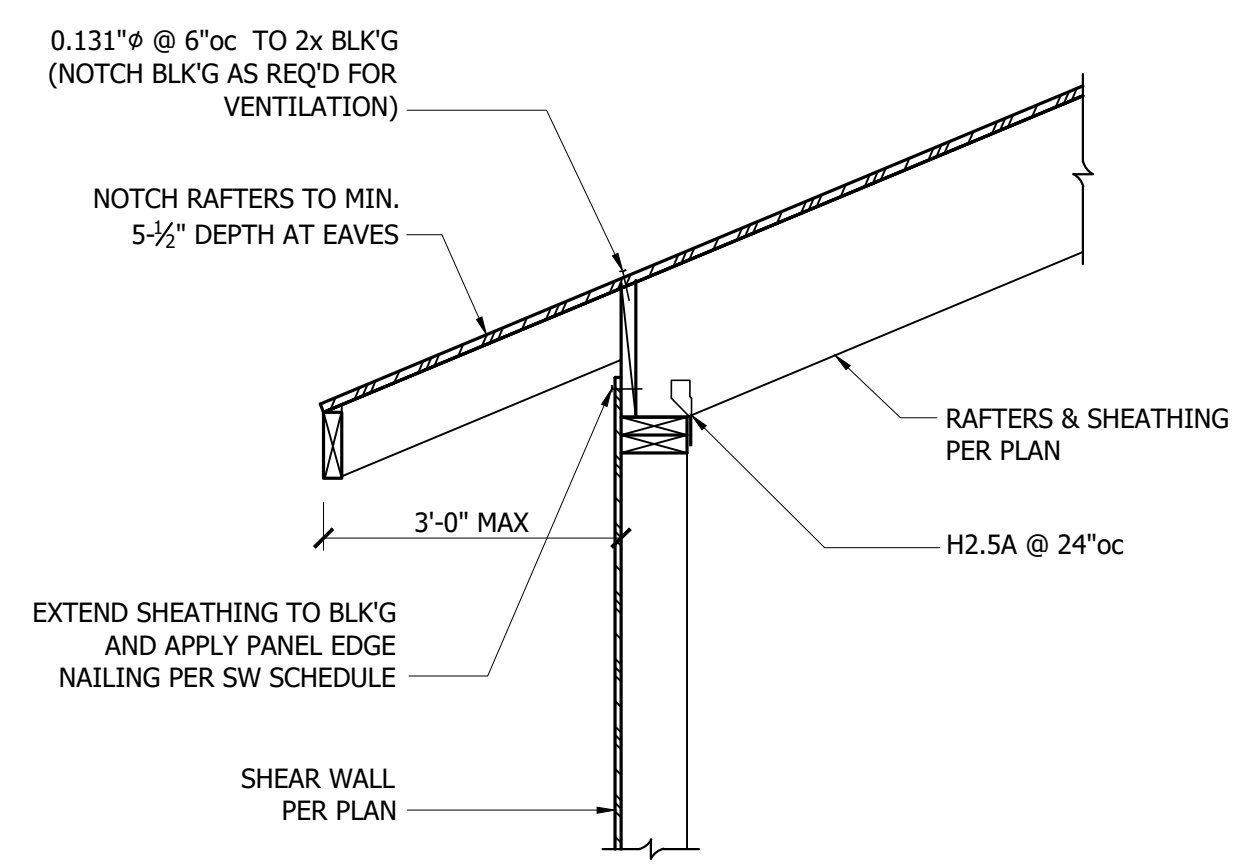
11 Grade Beam at Flush Foundation Wall  
3/4" = 1'-0"



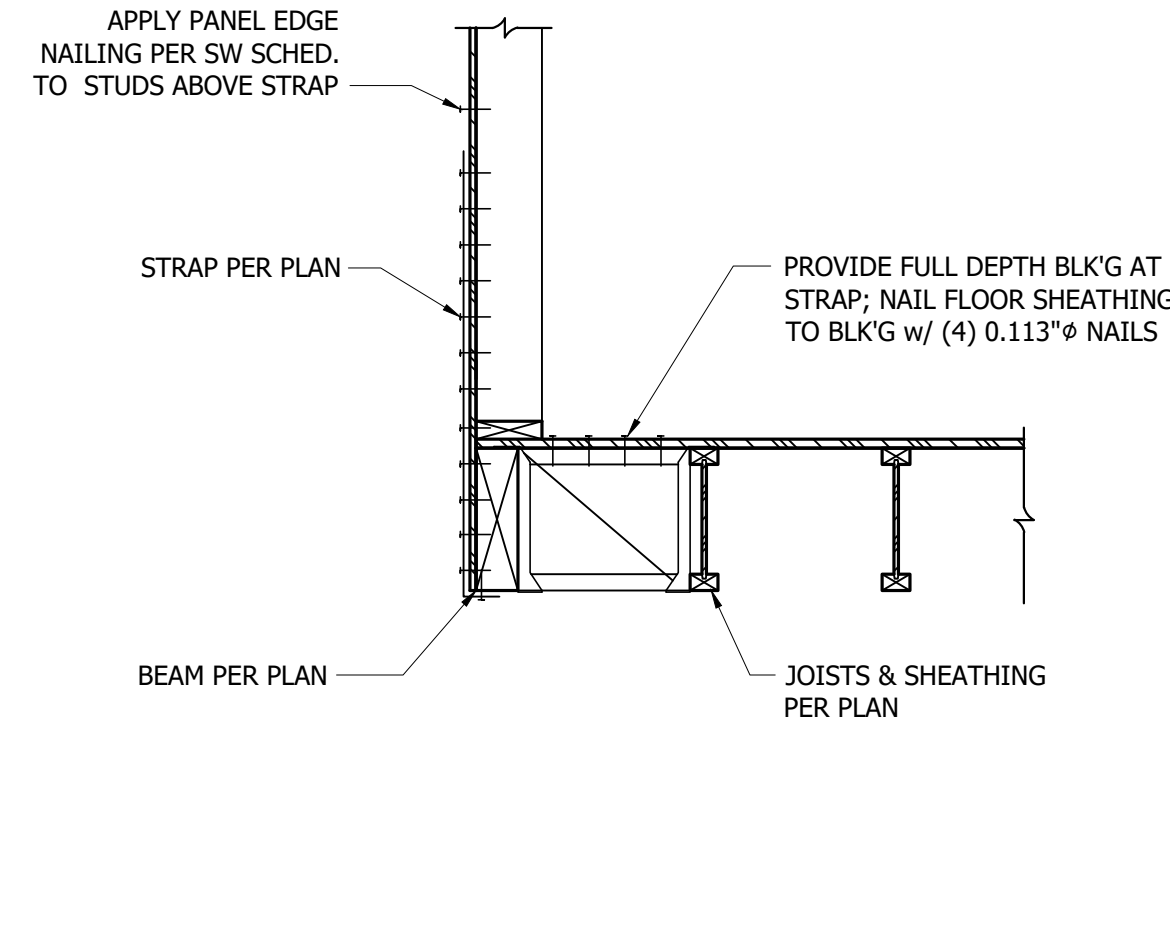
12 Crawlspace Post & Footing at Grade Beam  
3/4" = 1'-0"



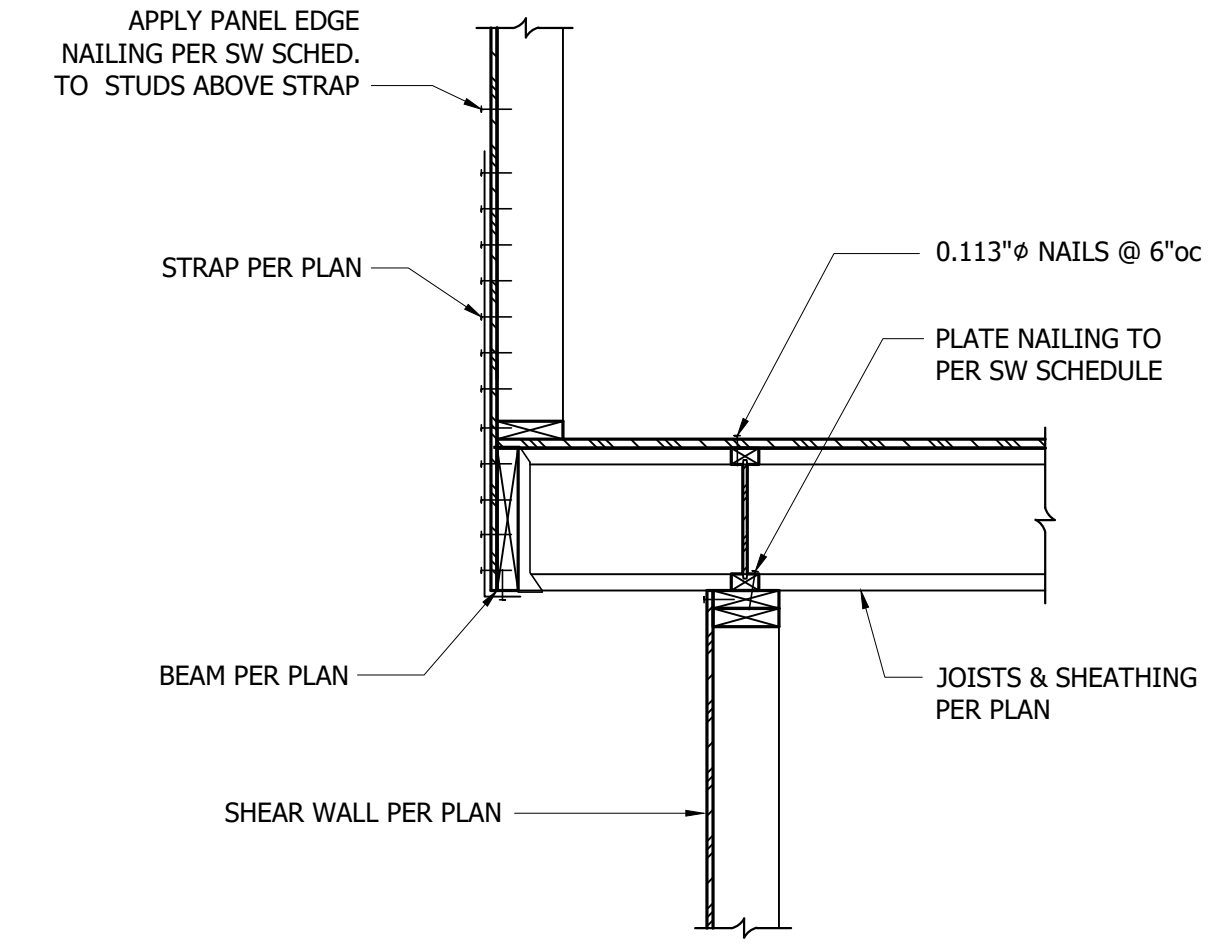
1 2x Rafter Parallel to Exterior Wall  
3/4" = 1'-0"



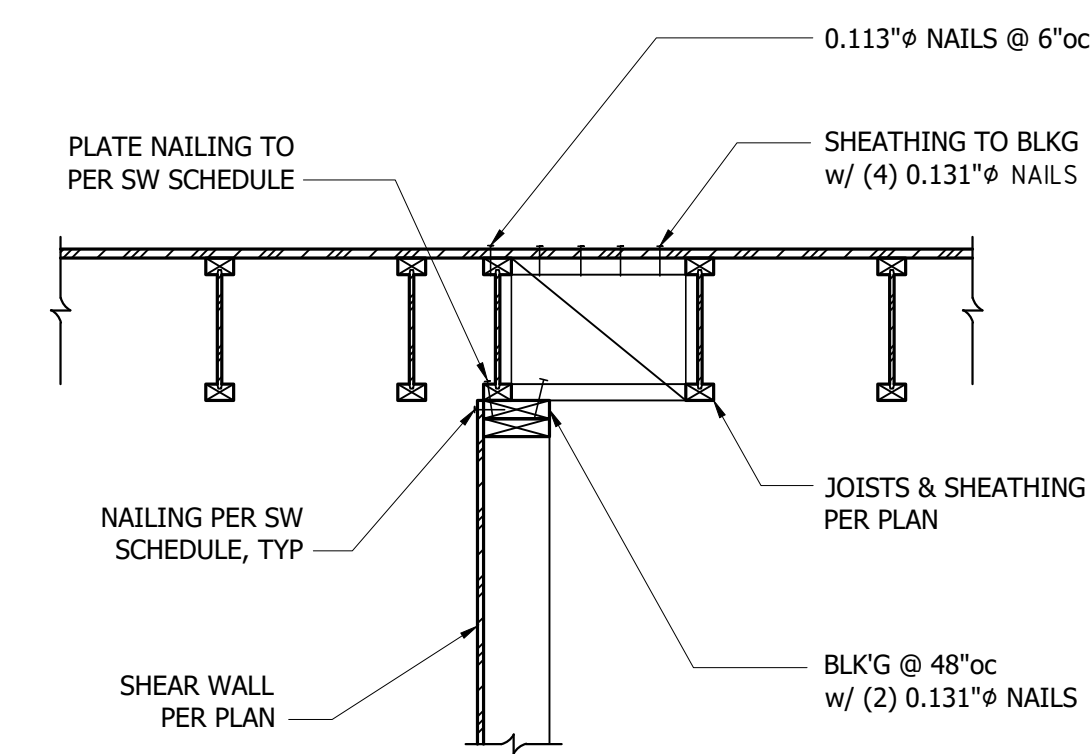
2 2x Rafters Perp. to Exterior Wall  
3/4" = 1'-0"



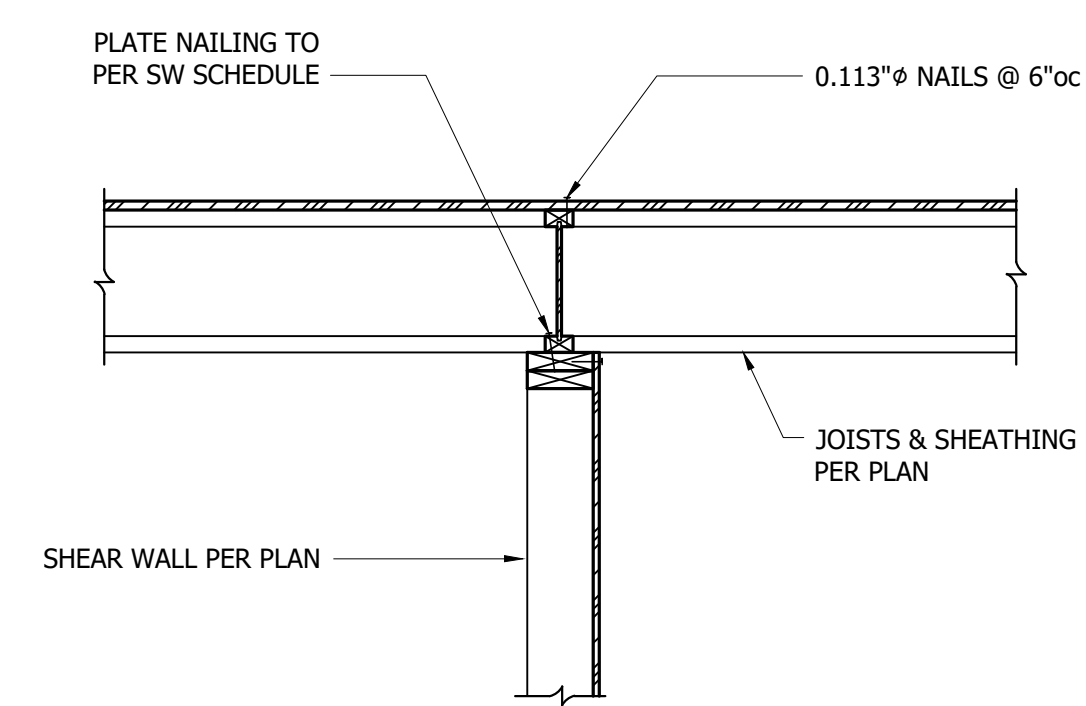
3 Strap to Beam Below  
3/4" = 1'-0"



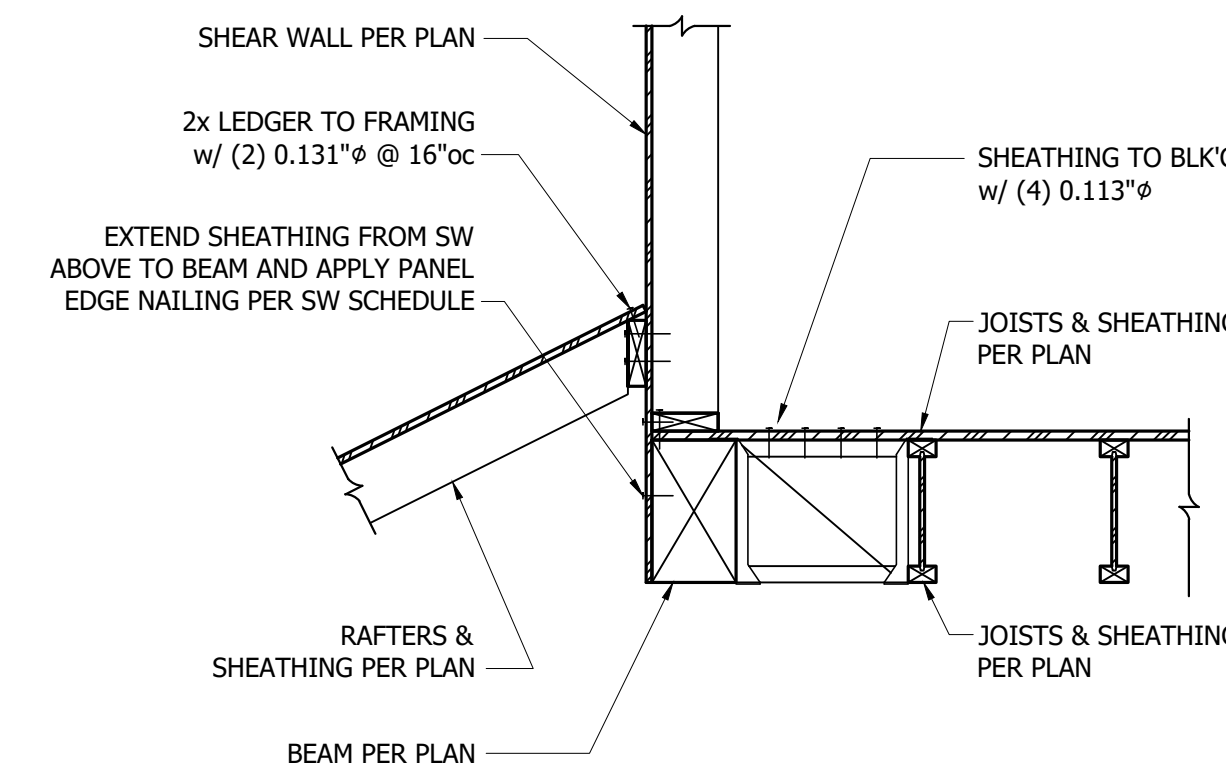
4 Strap to Beam Below  
3/4" = 1'-0"



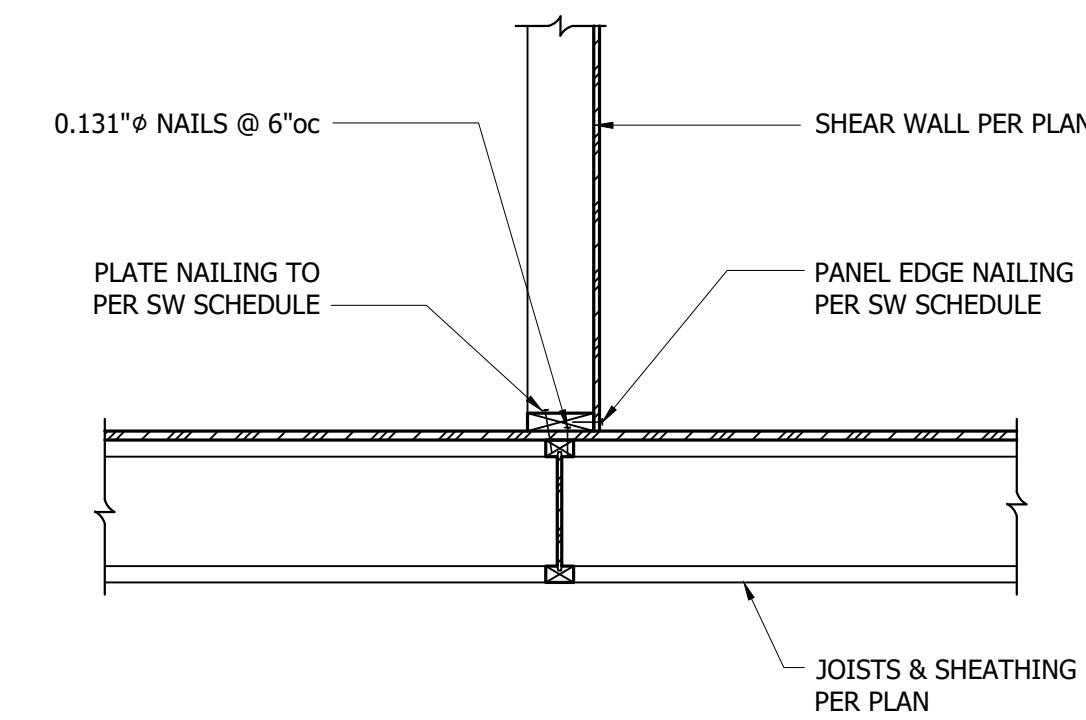
5 TJI Joists Parallel to Interior Shear Wall  
3/4" = 1'-0"



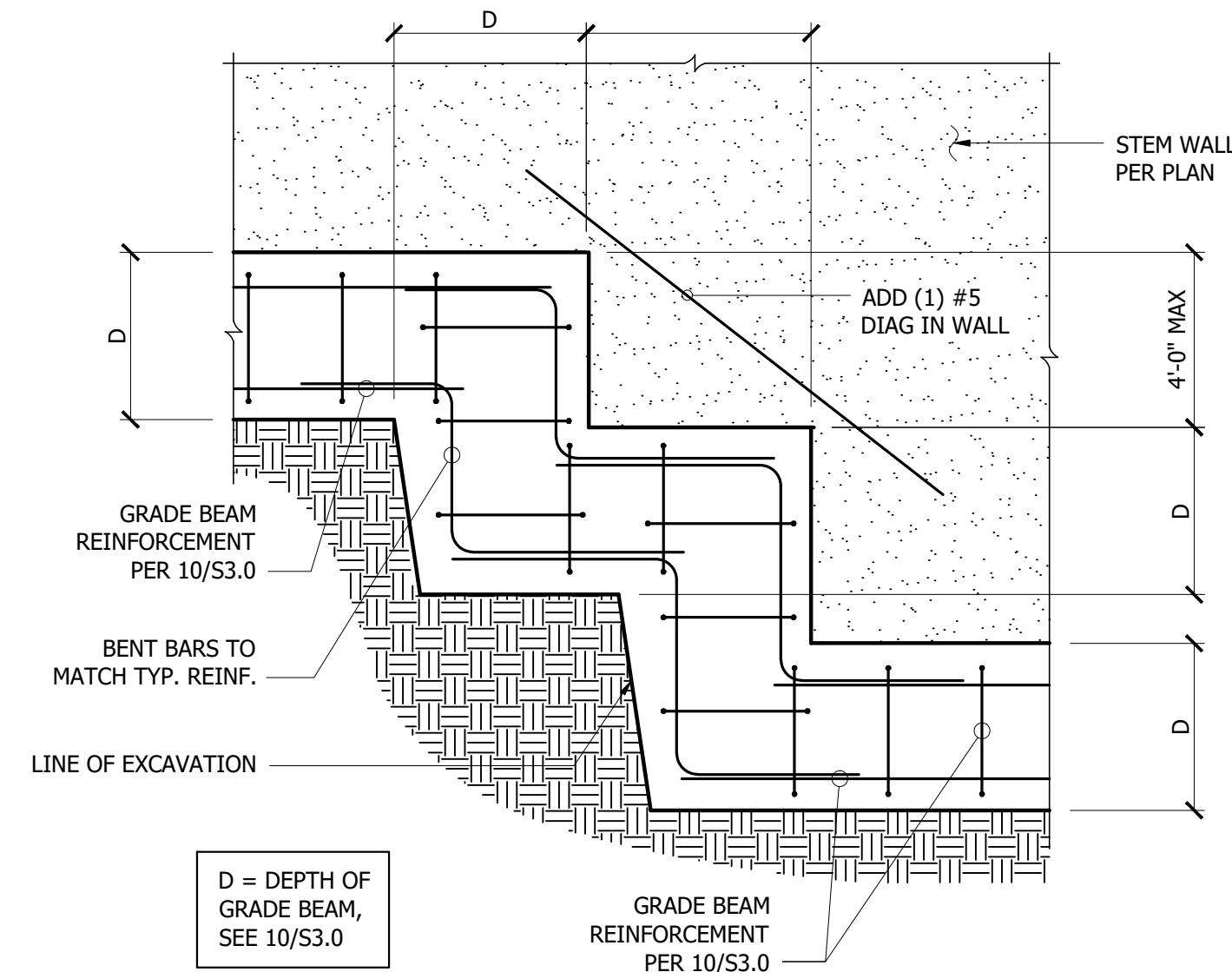
6 TJI Joists Perp. to Interior Shear Wall  
3/4" = 1'-0"



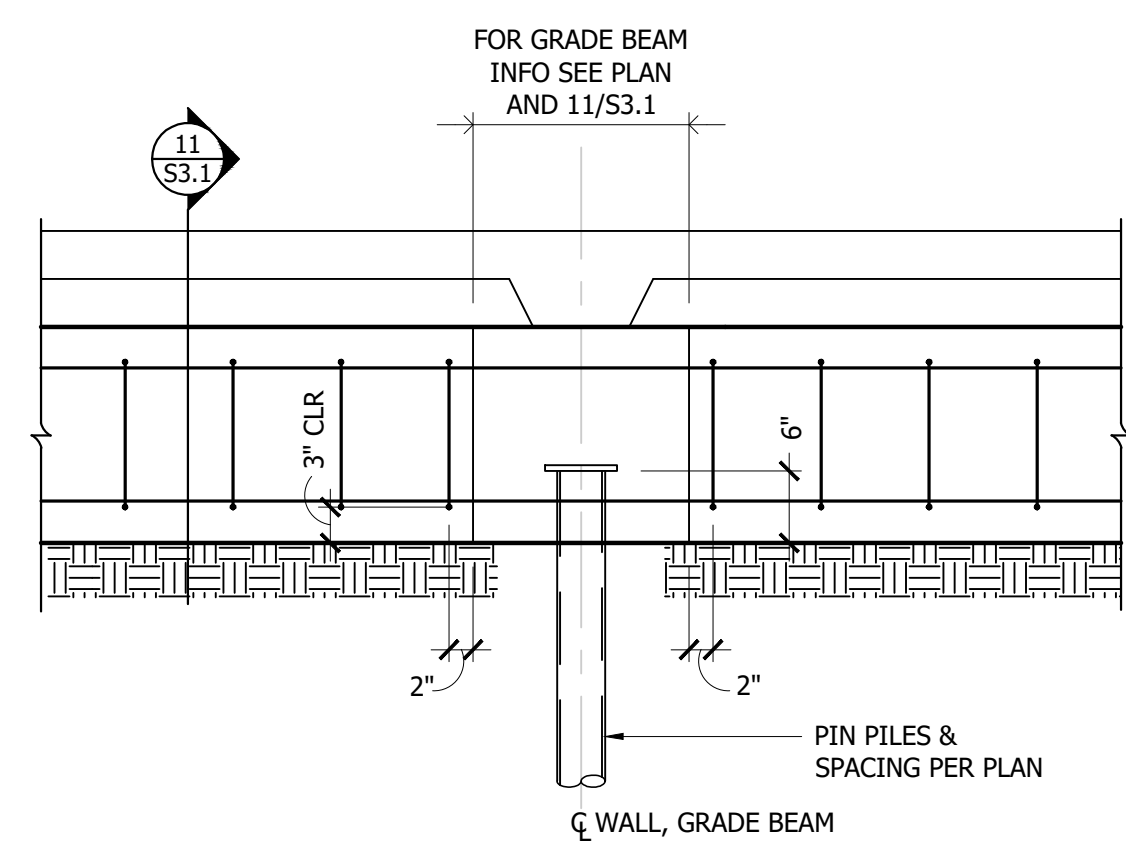
7 Offset Shear Walls at Floor Framing  
3/4" = 1'-0"



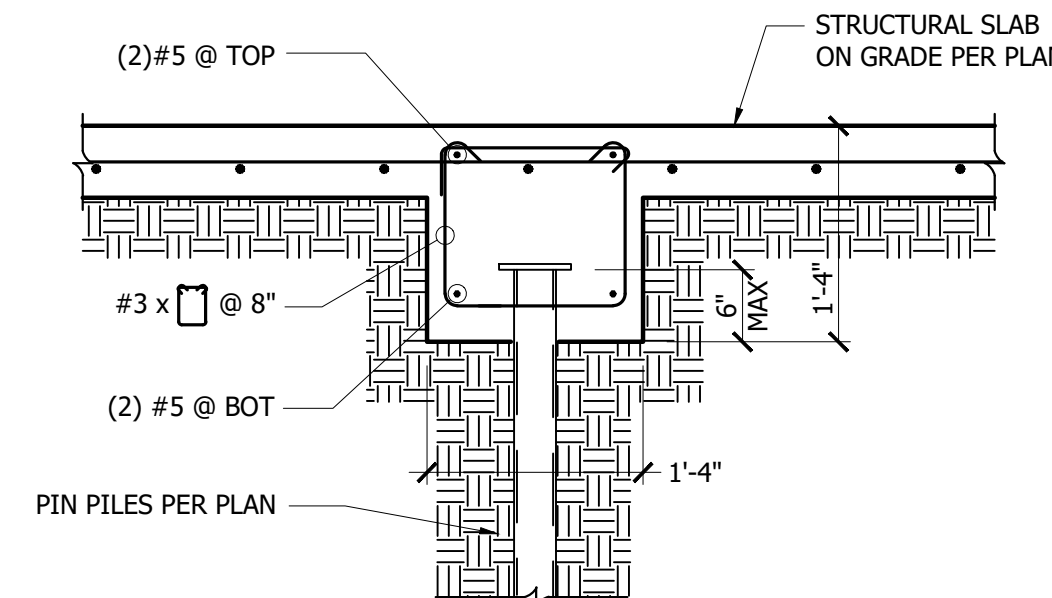
8 SW Supported by Perp. Joists  
3/4" = 1'-0"



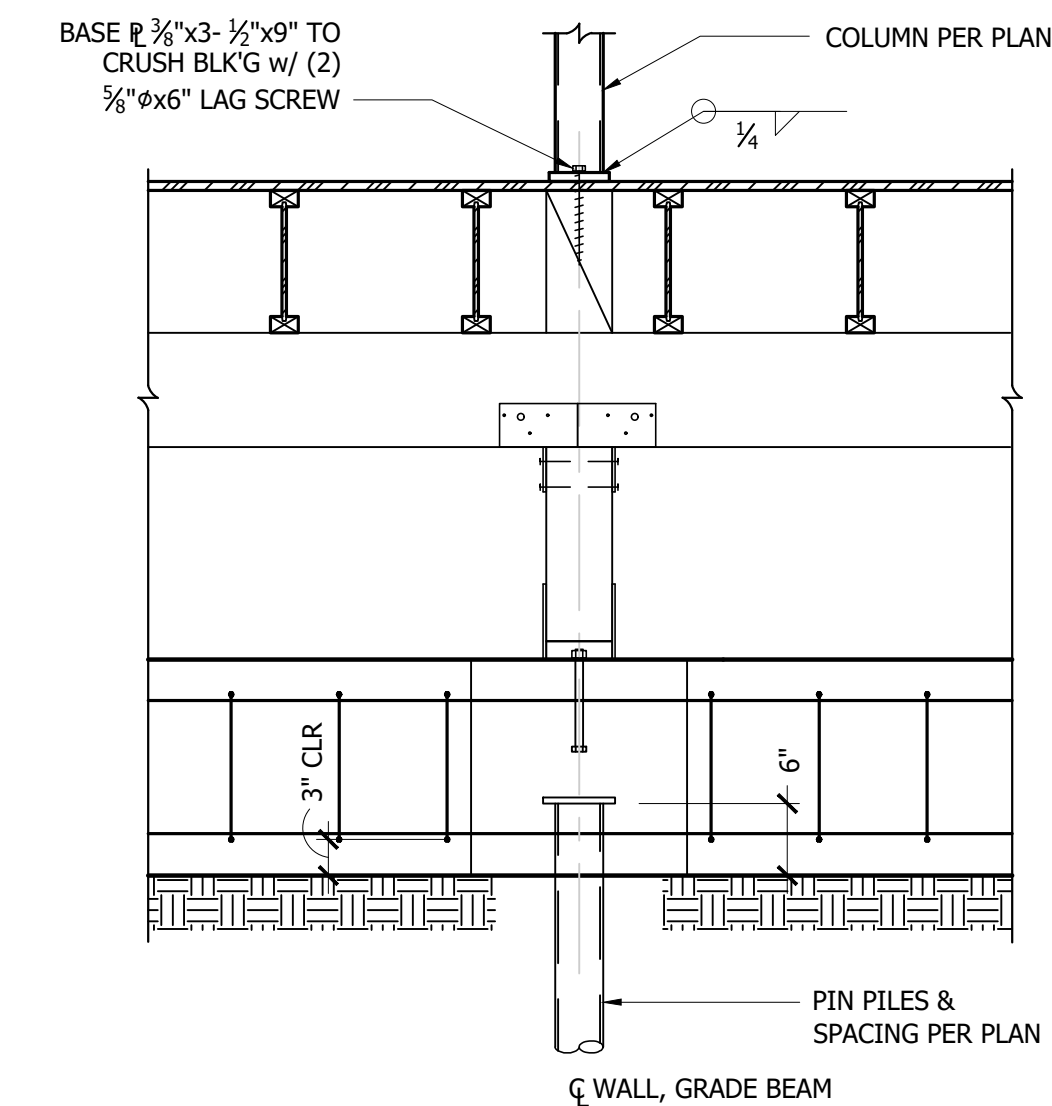
9 Stepped Grade Beam, Typ.  
3/4" = 1'-0"



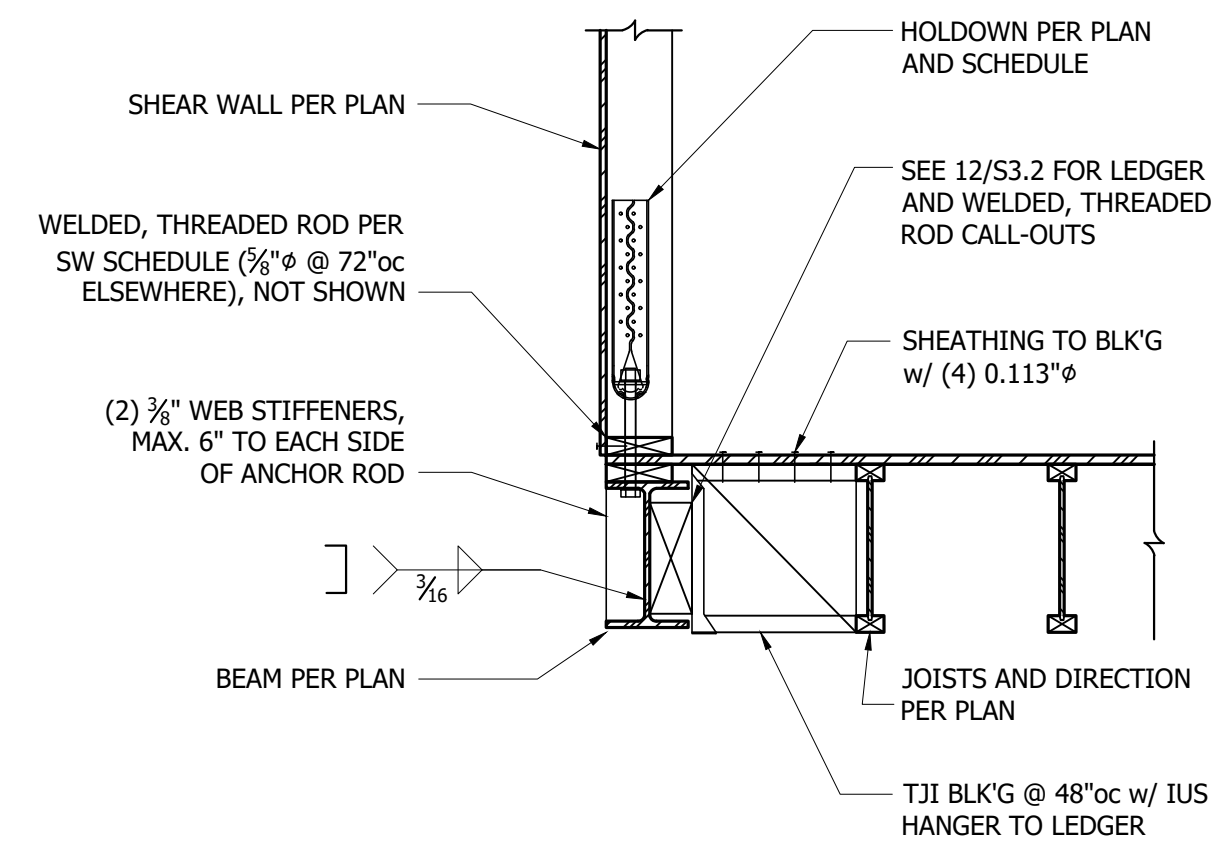
10 Grade Beam Intersection, Typ.  
3/4" = 1'-0"



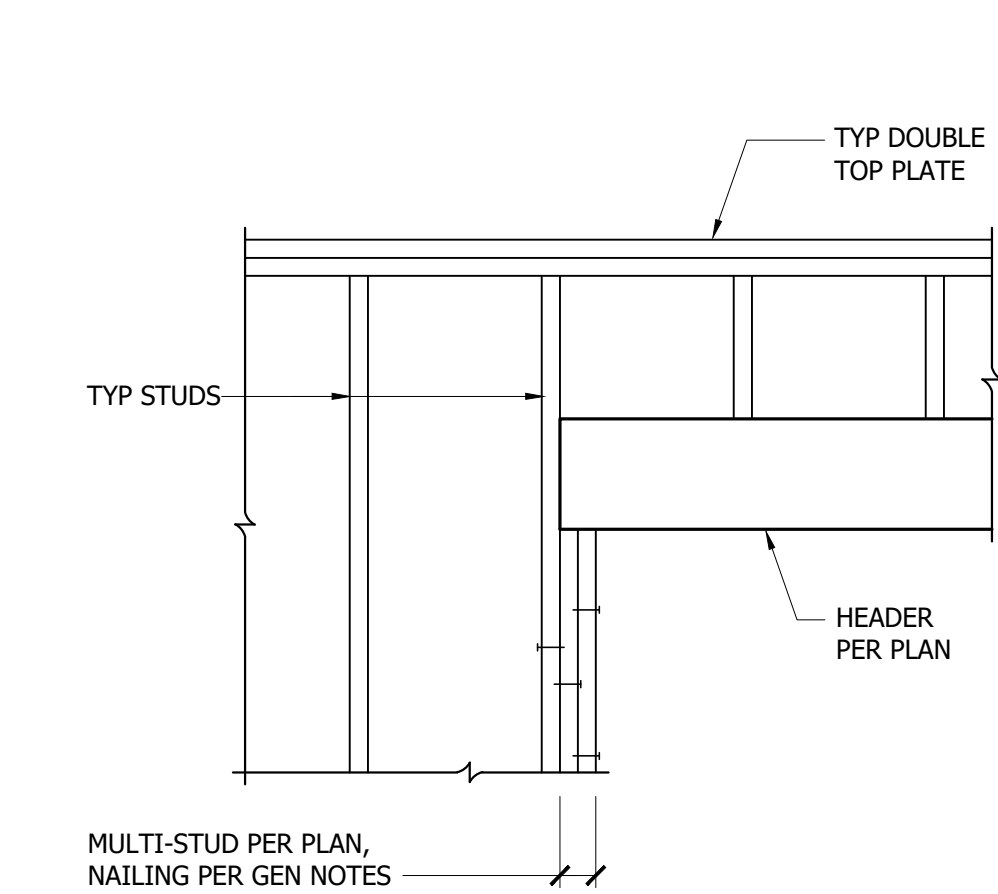
11 Grade Beam at Structural Slab  
3/4" = 1'-0"



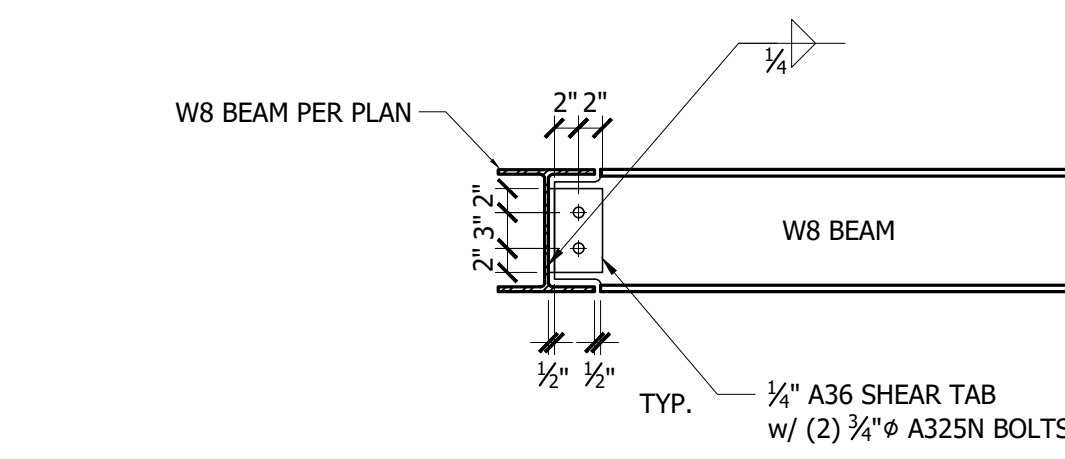
12 HSS Column Aligned over Grade Beam  
3/4" = 1'-0"



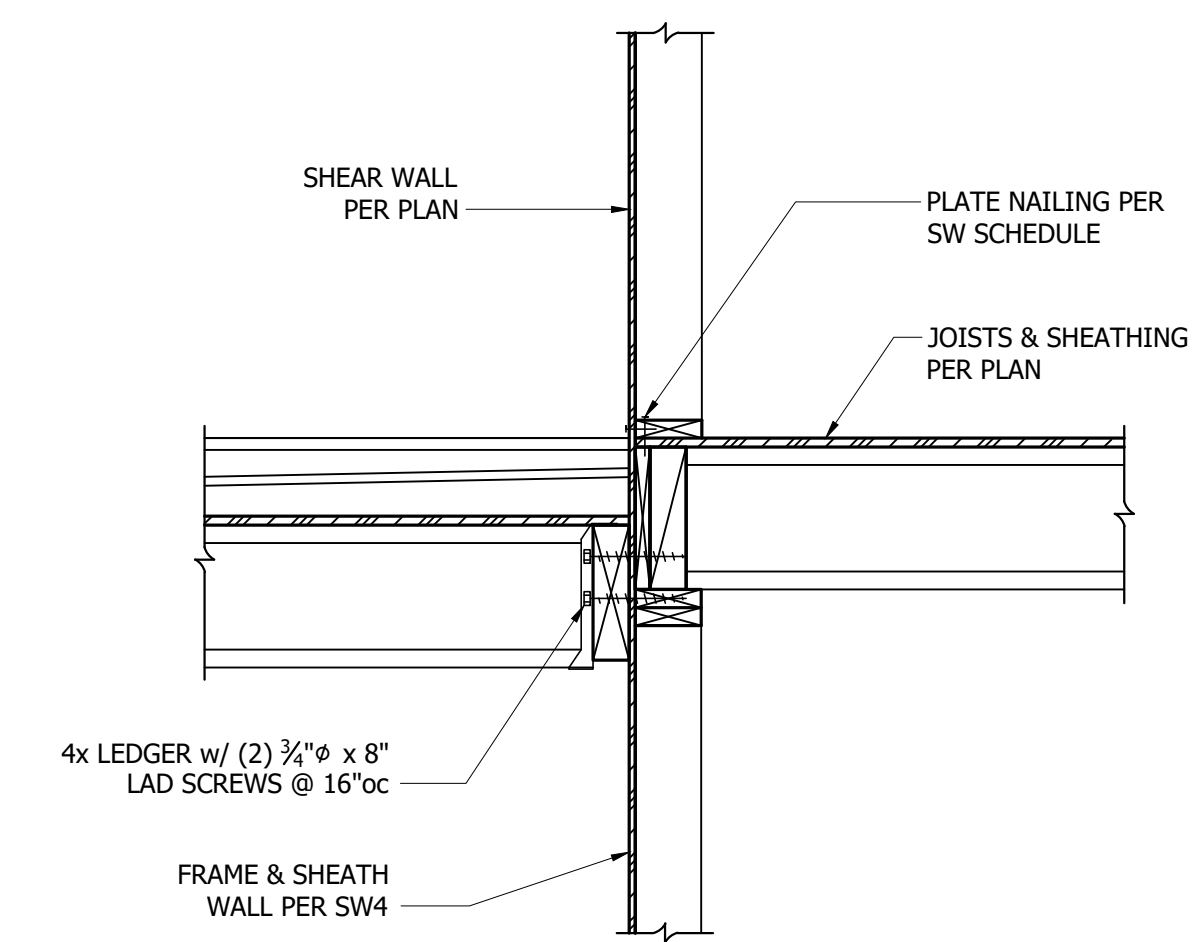
**1** Holdown to Steel Beam  
3/4" = 1'-0"



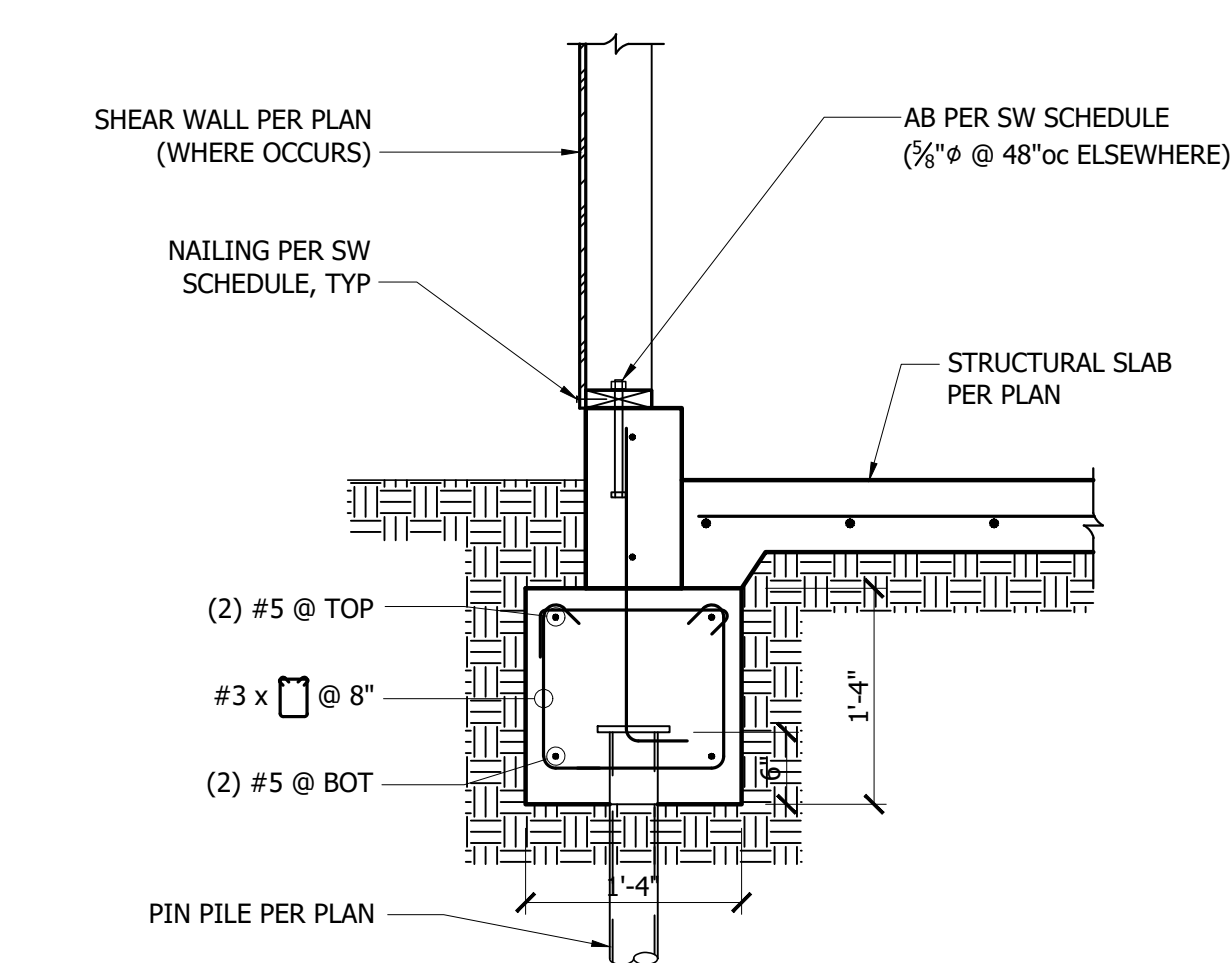
**2** Header Support, Typ.  
3/4" = 1'-0"



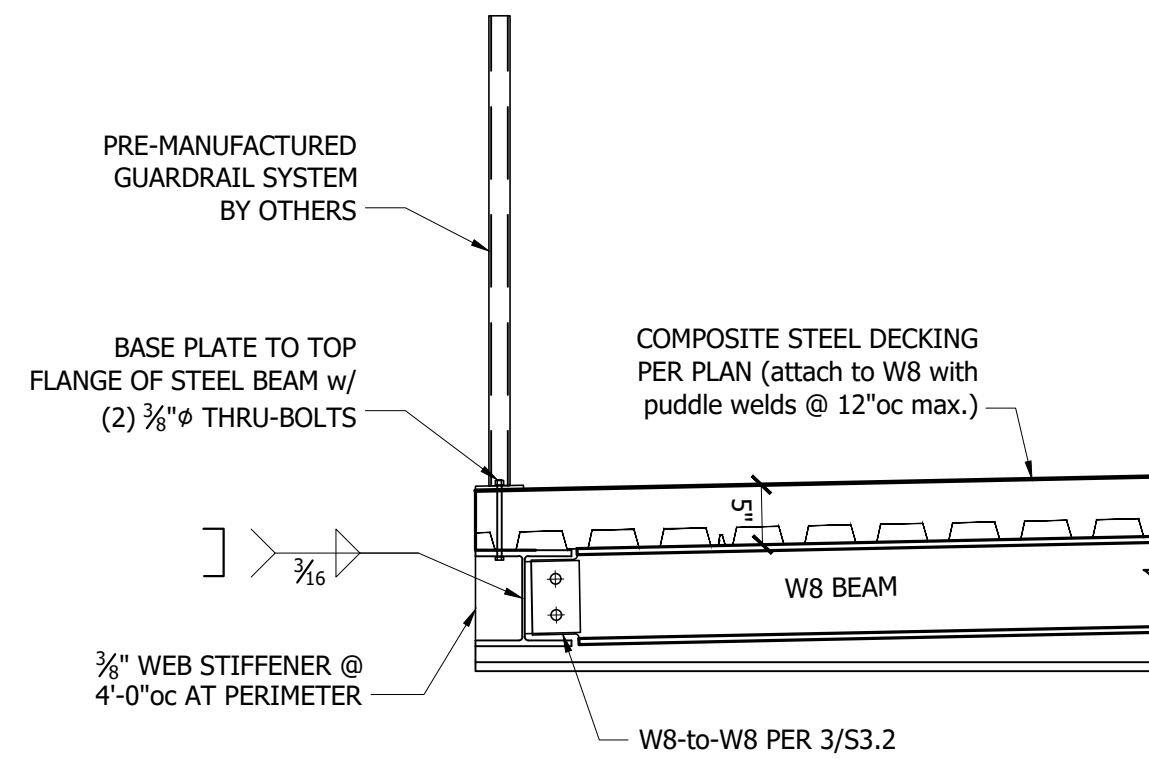
**3** Steel Beam to Steel Beam  
3/4" = 1'-0"



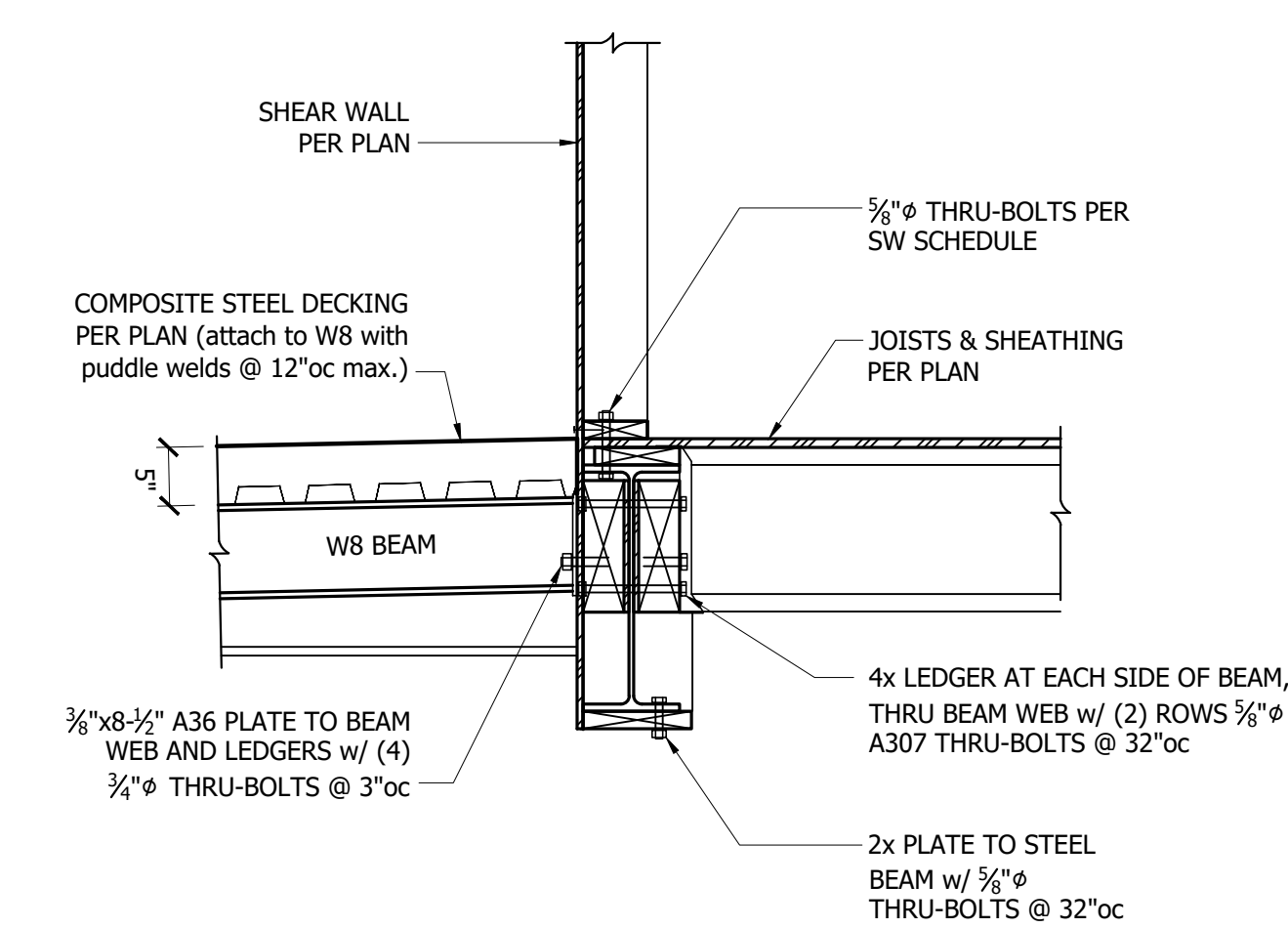
**4** Main Floor Deck at Floor Framing  
3/4" = 1'-0"



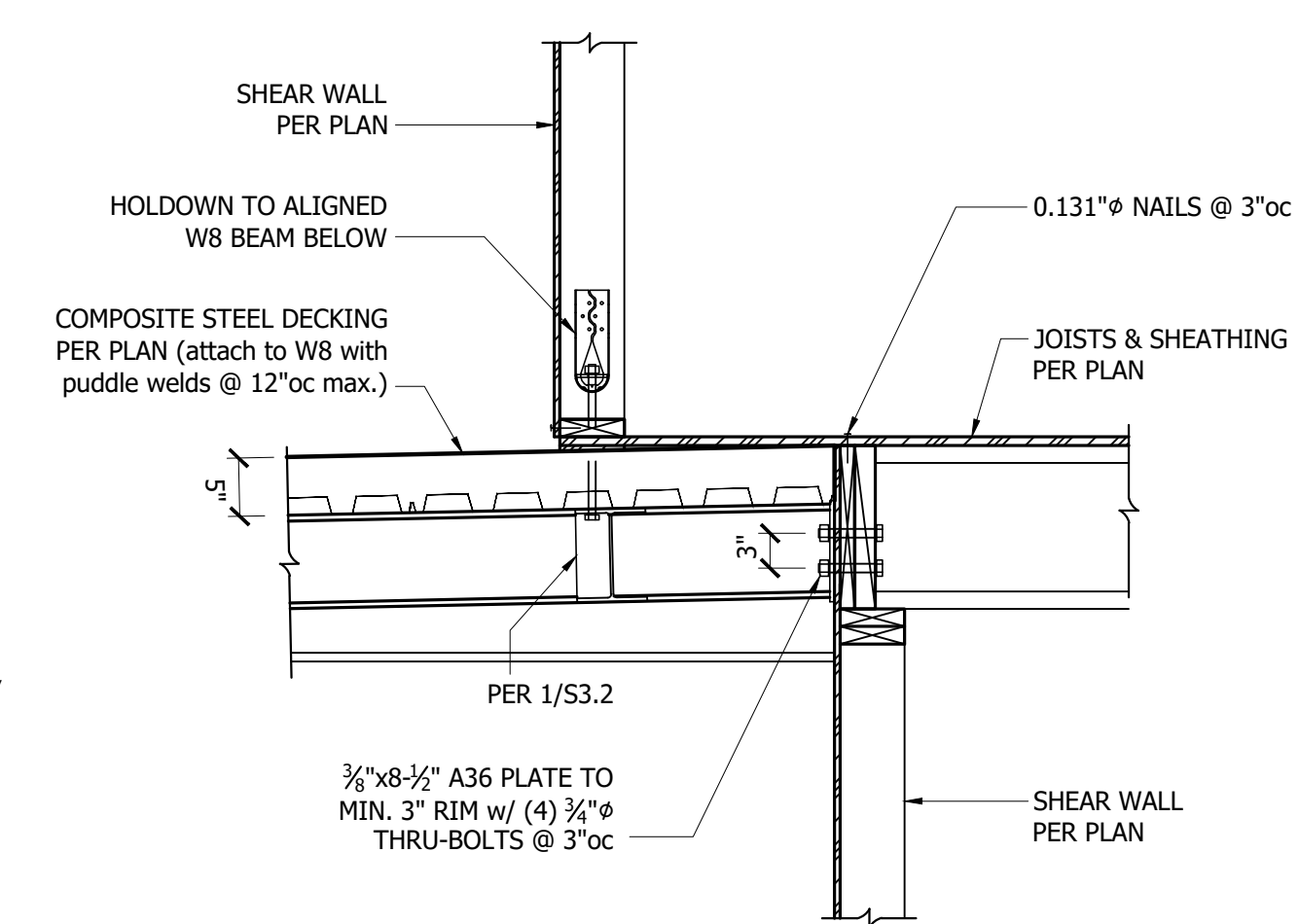
**5** Grade Beam at Garage  
3/4" = 1'-0"



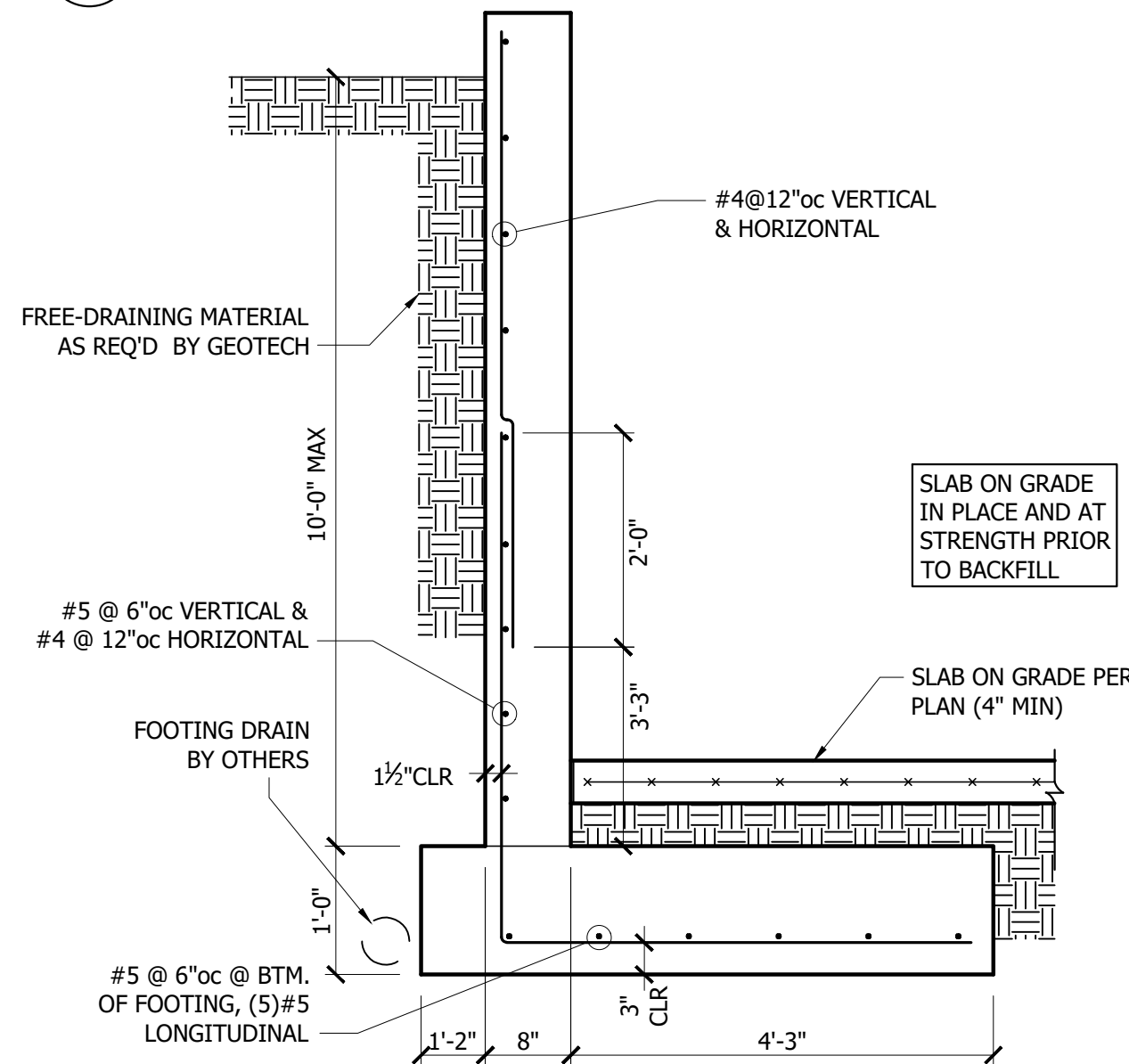
**6** Guardrail Support to Steel Beam  
3/4" = 1'-0"



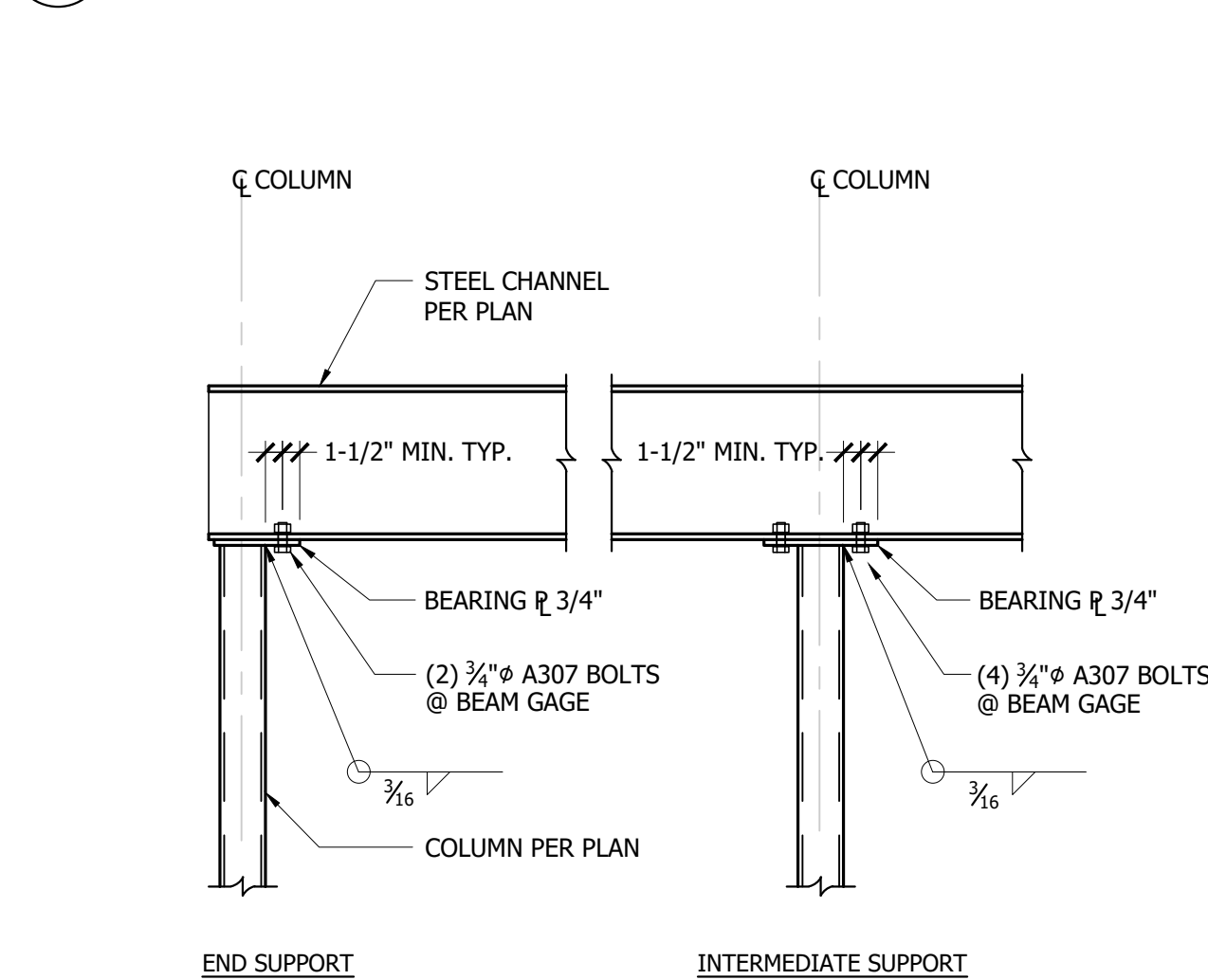
**7** Non-Combustible Deck at Steel Header  
3/4" = 1'-0"



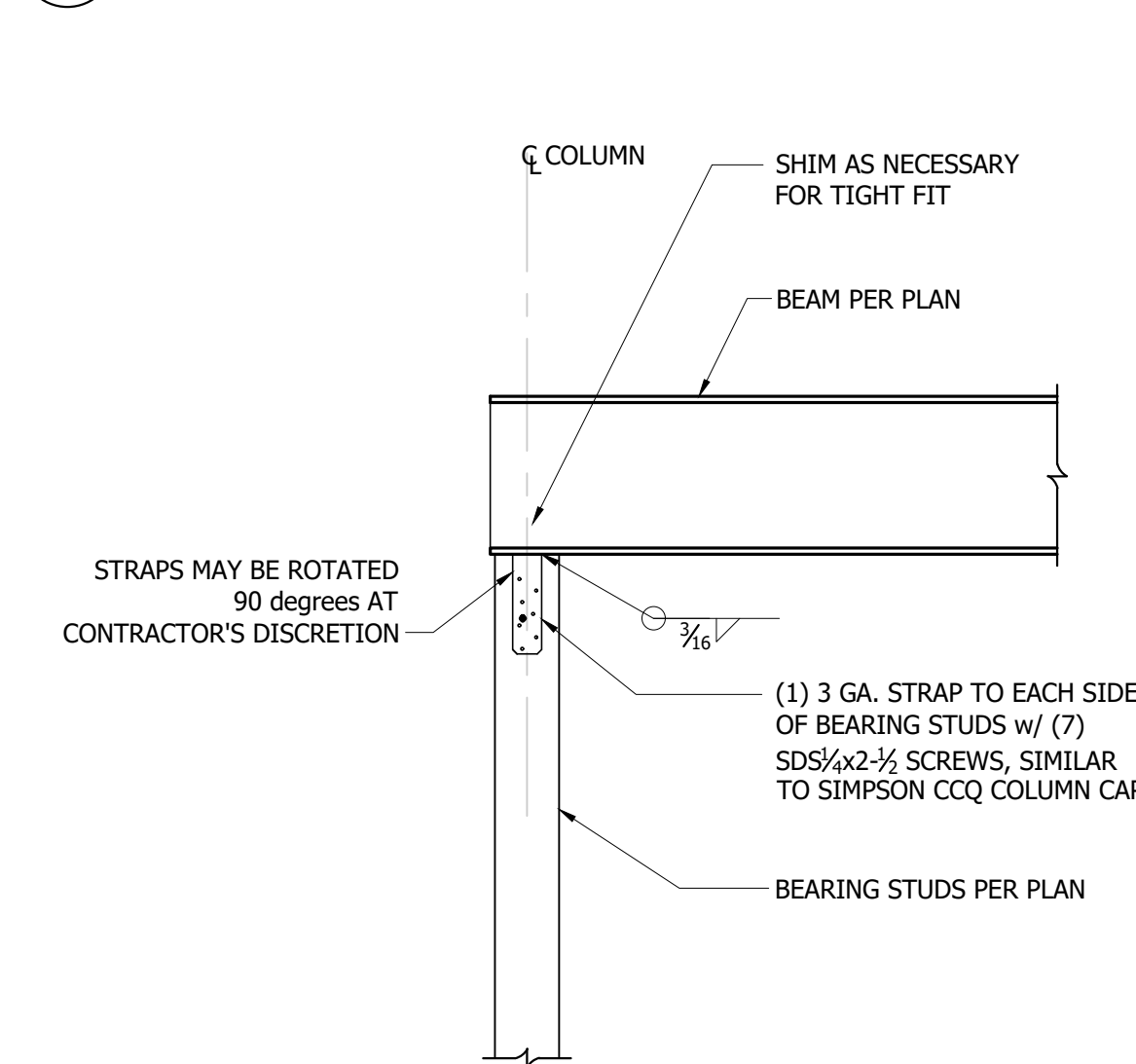
**8** Non-Combustible Deck under Bay  
3/4" = 1'-0"



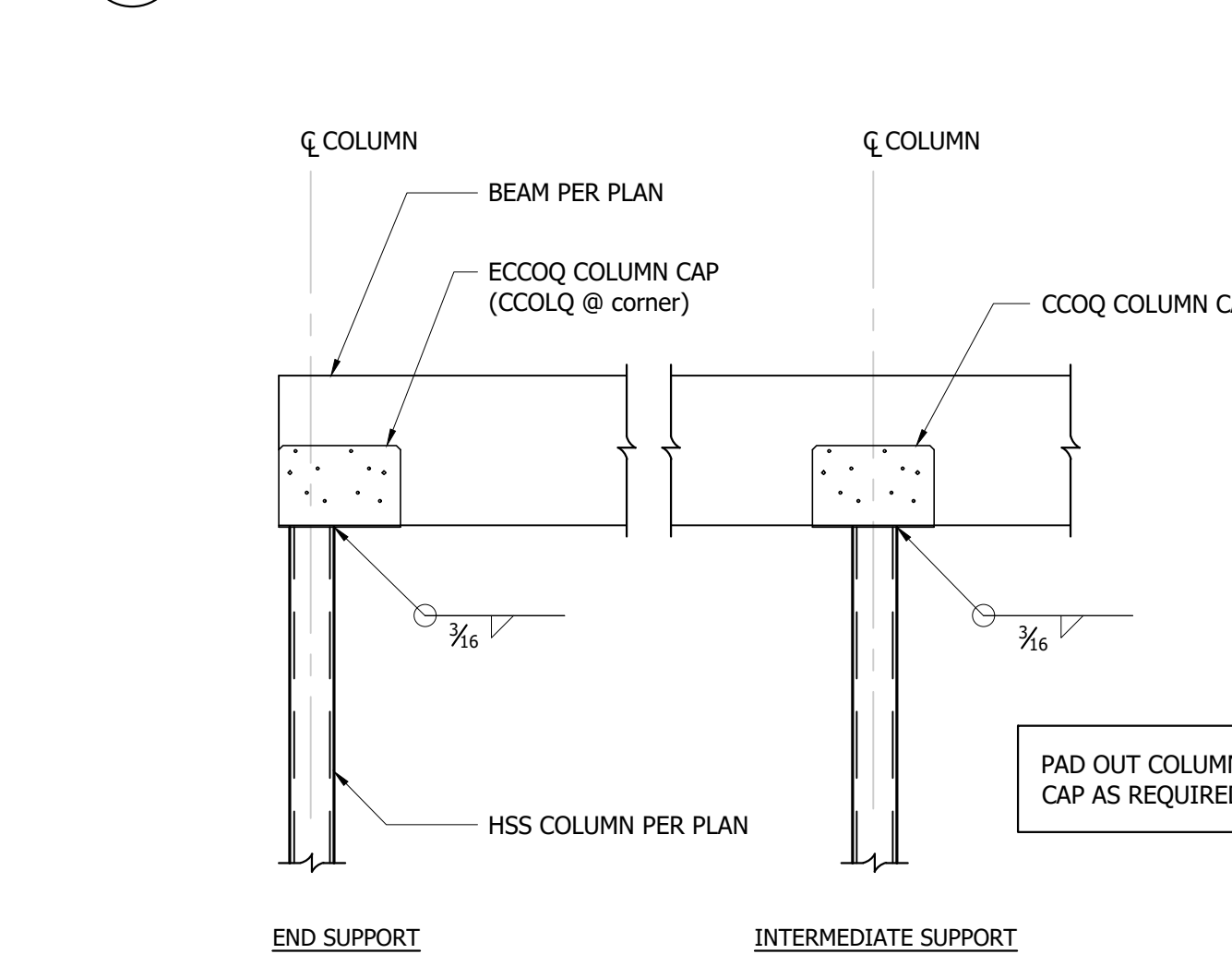
**9** 10' Landscape Wall  
3/4" = 1'-0"



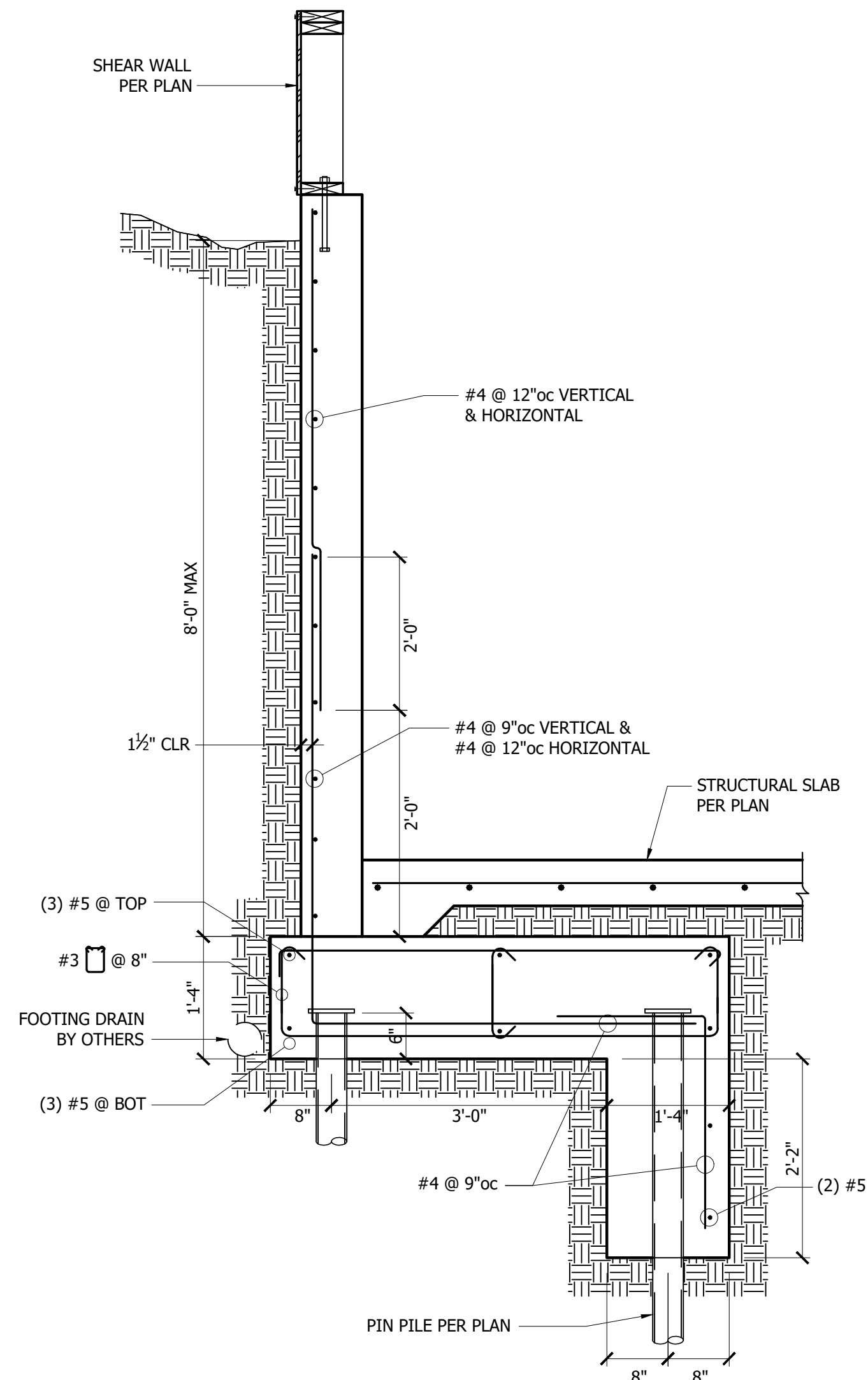
**10** Steel Beam to HSS Column, Typ.  
3/4" = 1'-0"



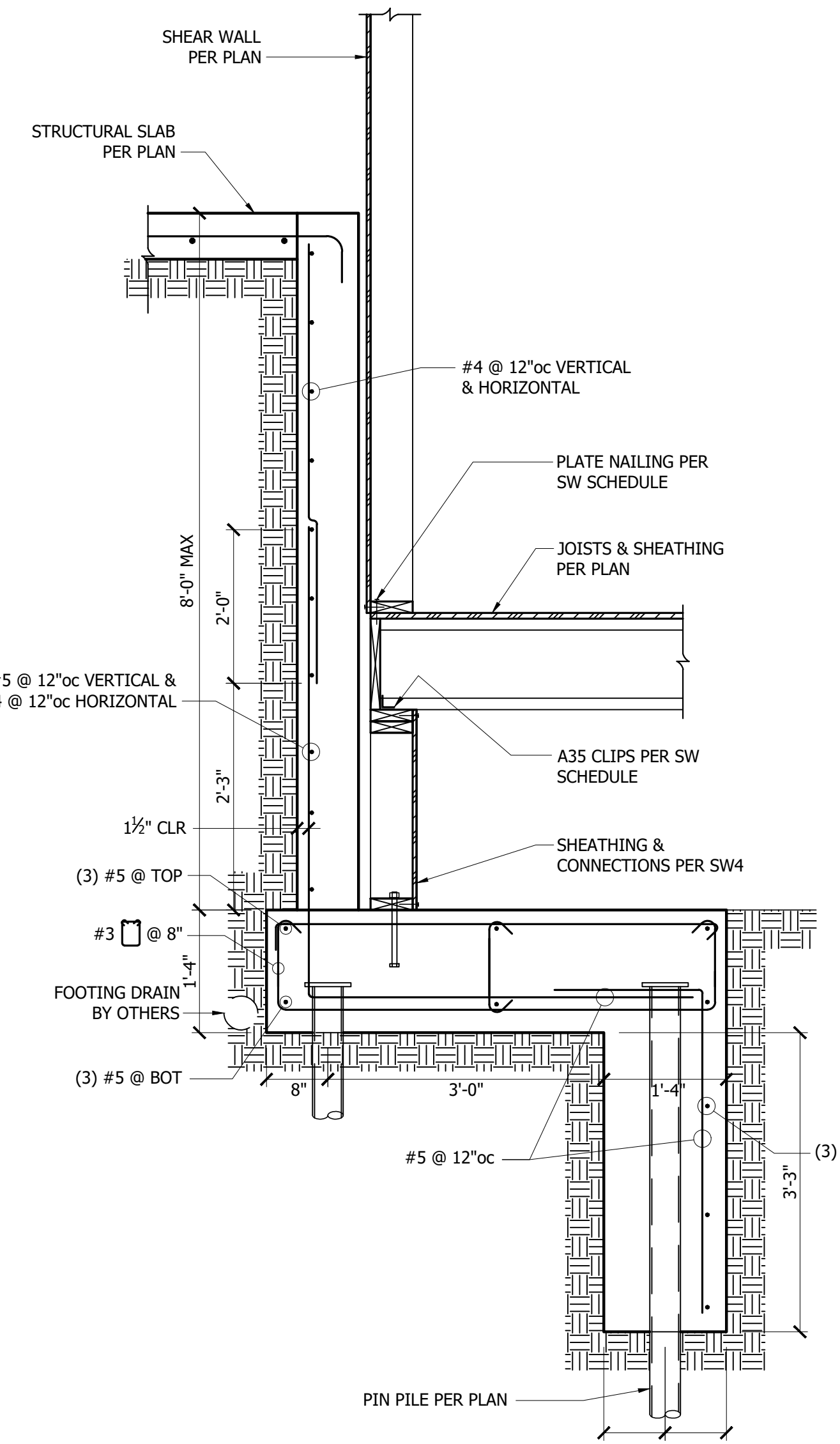
**11** Steel Beam to Wood Column  
3/4" = 1'-0"



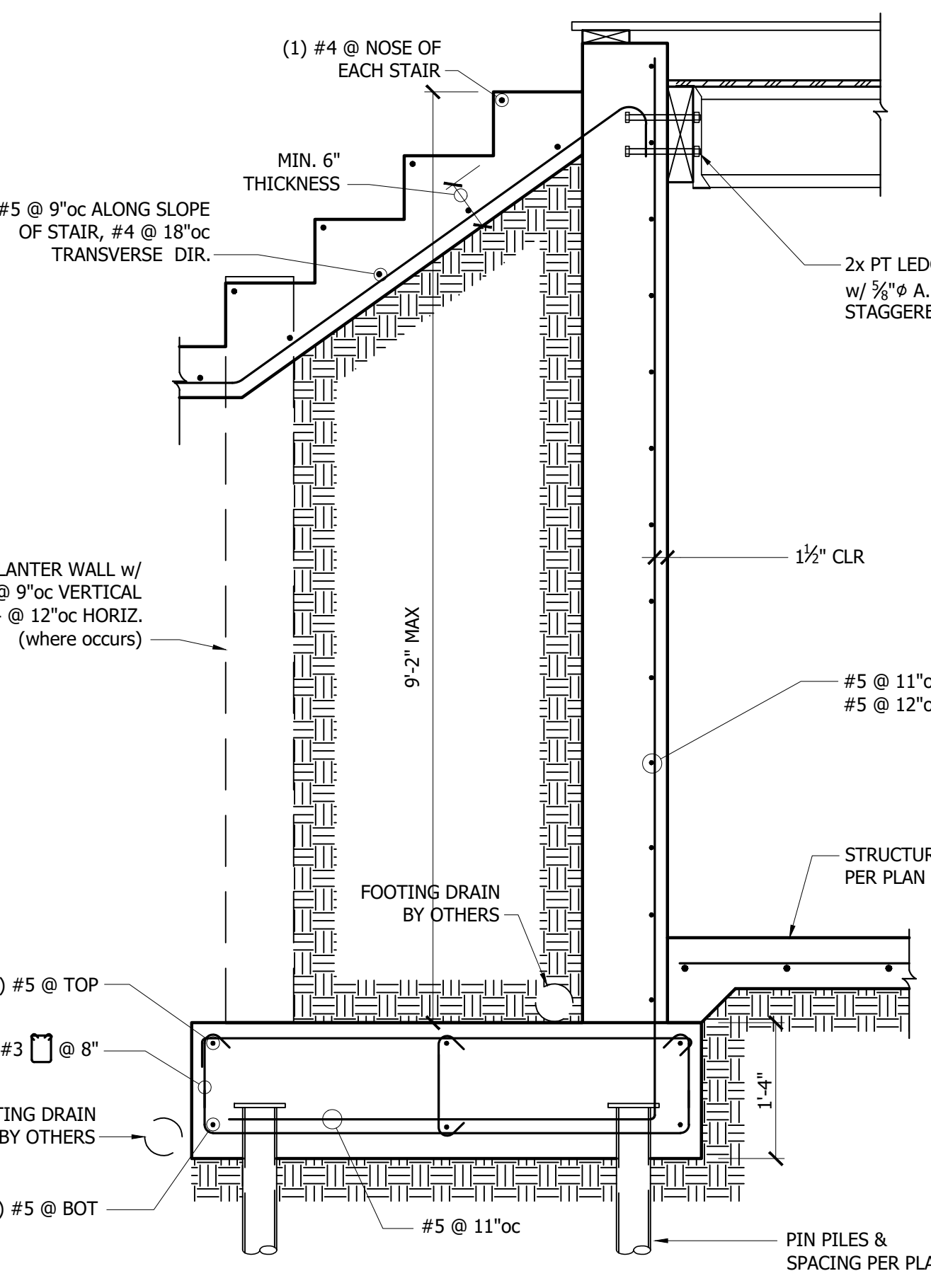
**12** Wood Beam to HSS Column, Typ.  
3/4" = 1'-0"



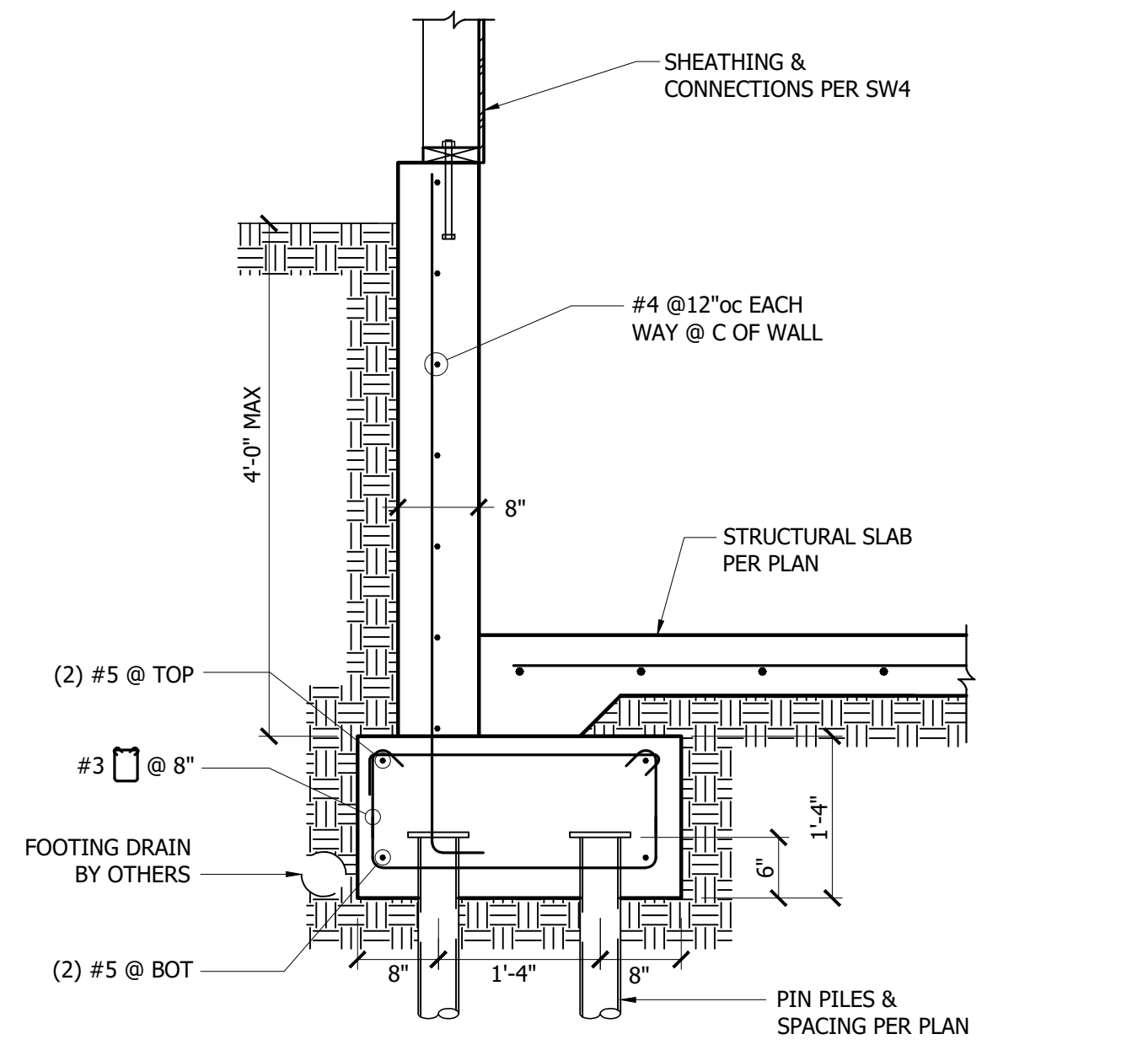
5 Grid 1 Retaining Wall  
3/4" = 1'-0"



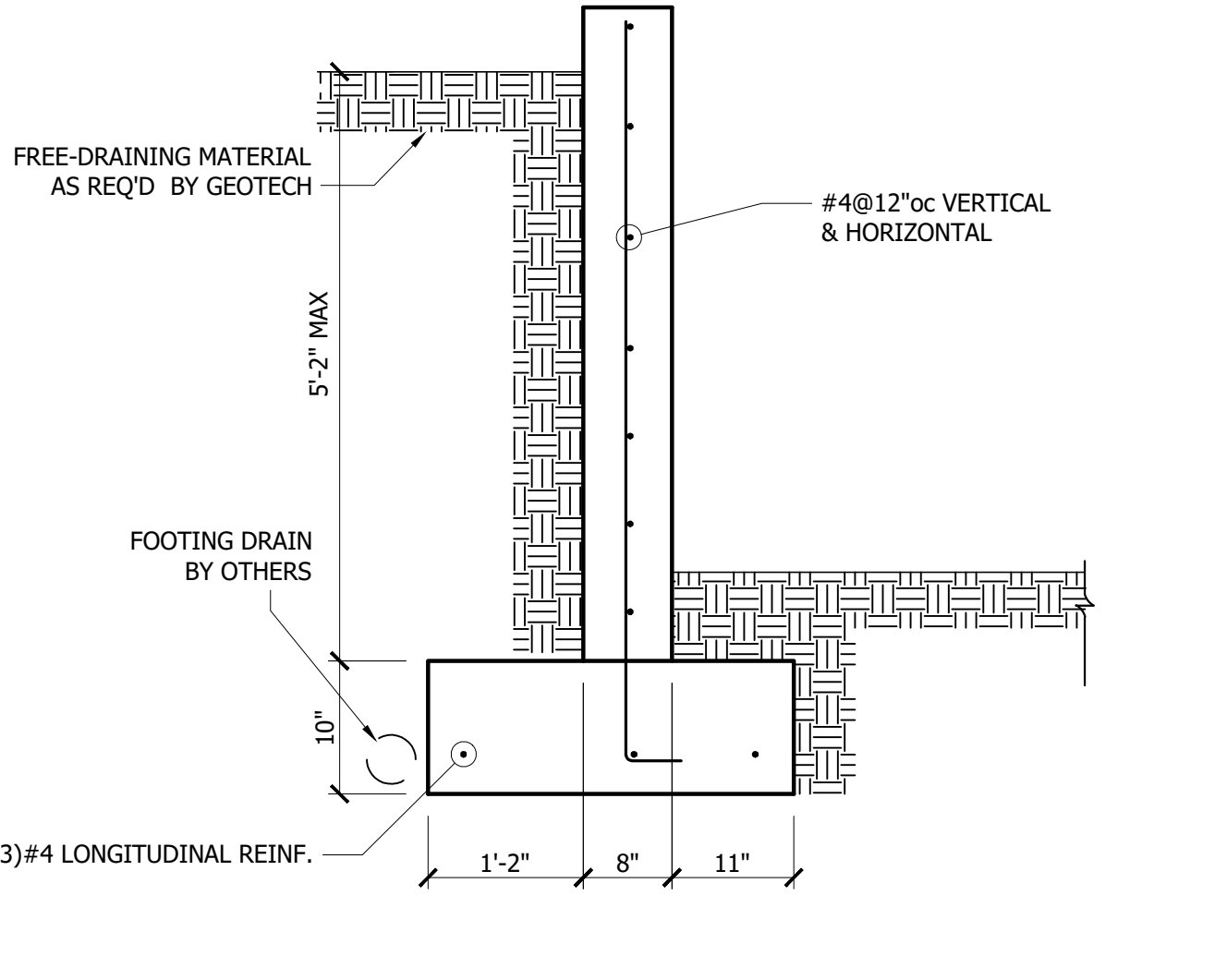
6 Grid 2,4 Retaining Wall  
3/4" = 1'-0"



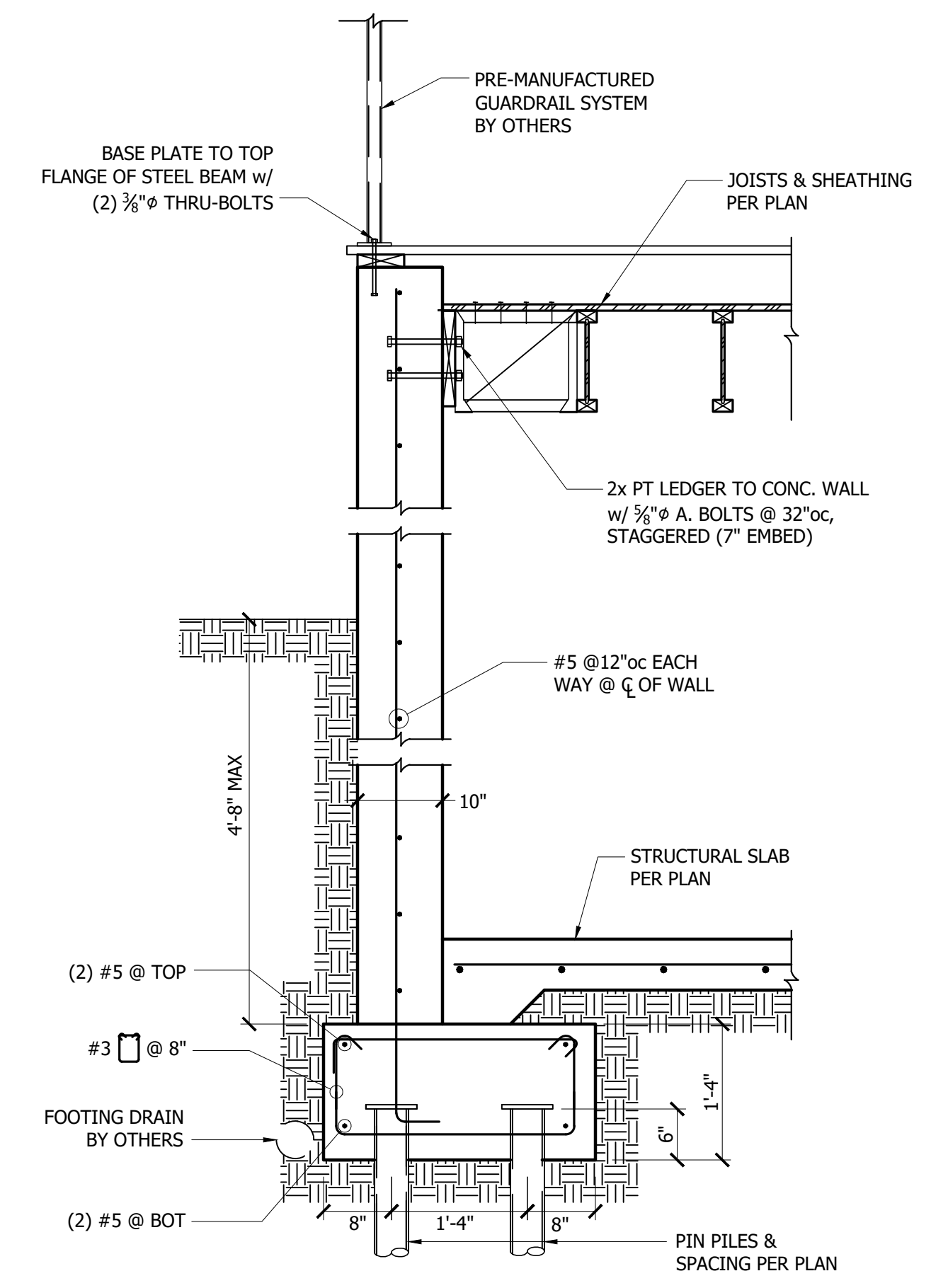
7 Grid 11 Retaining Wall  
3/4" = 1'-0"



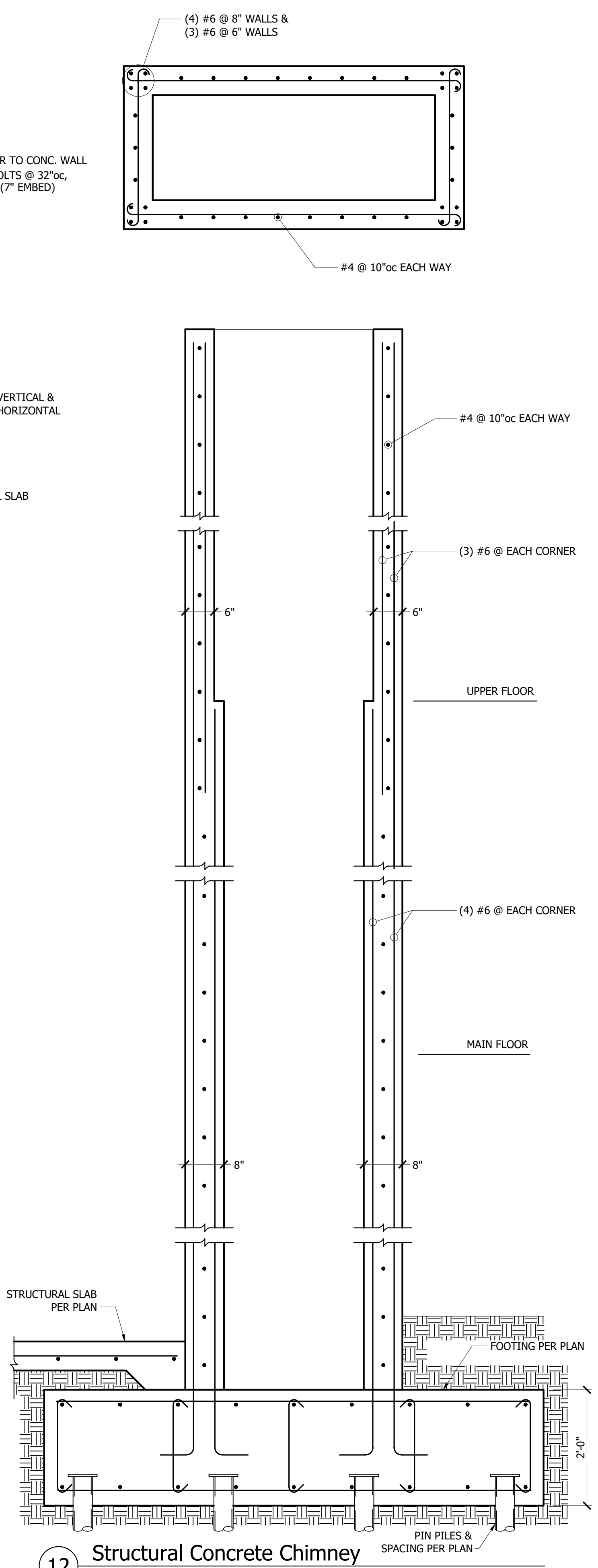
9 Grid 9 Retaining Wall  
3/4" = 1'-0"



10 5' Landscape Wall  
3/4" = 1'-0"

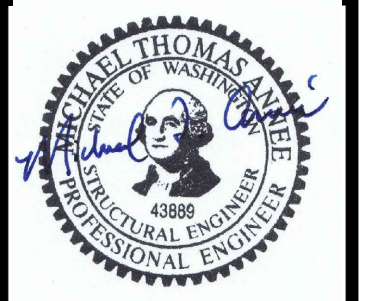


11 Grid L Retaining Wall  
3/4" = 1'-0"



12 Structural Concrete Chimney  
3/4" = 1'-0"

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET



www.sturmanarchitects.com  
All Rights Reserved  
© 2022

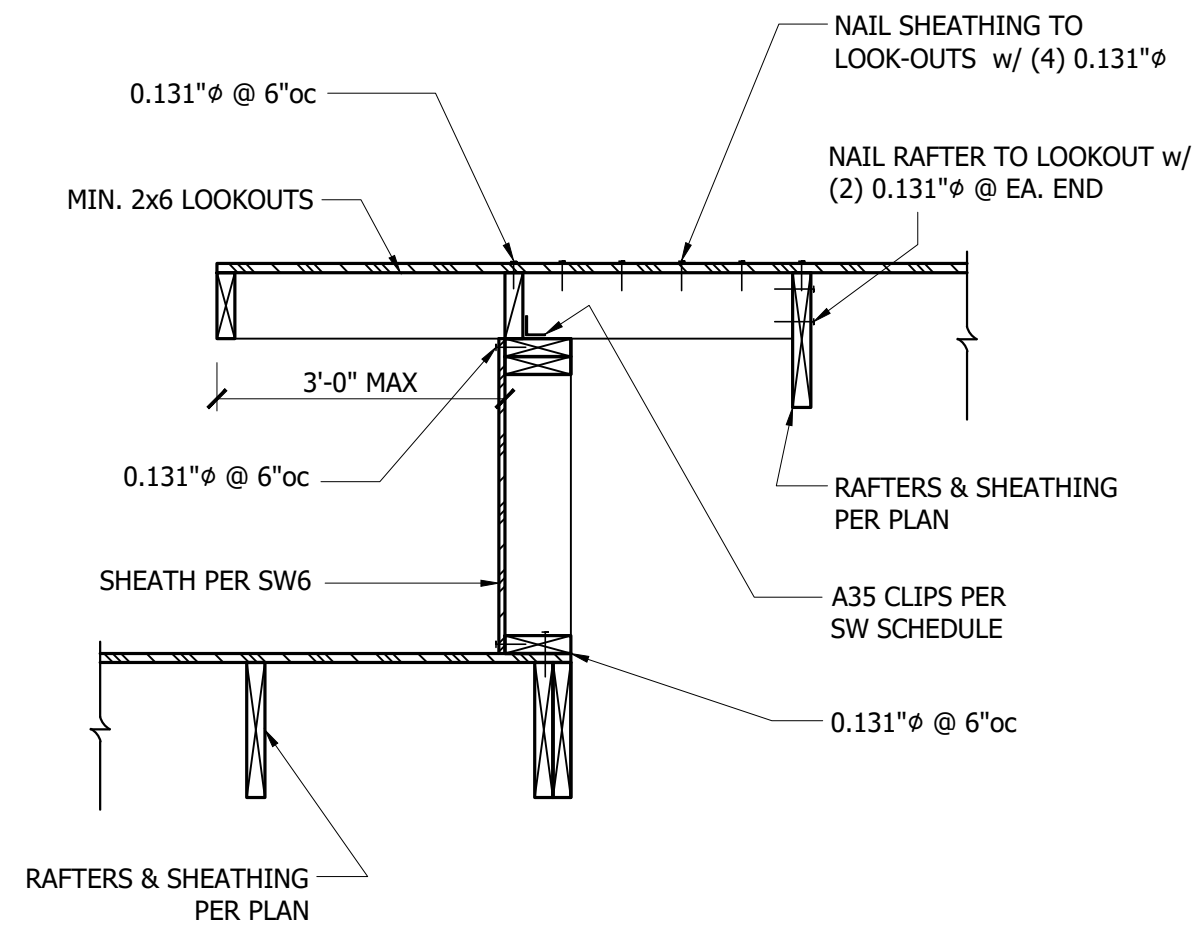
4006 RESIDENCE  
4006 E MERCER WAY  
MERCER ISLAND, WA 98040

STRUCTURAL DETAILS

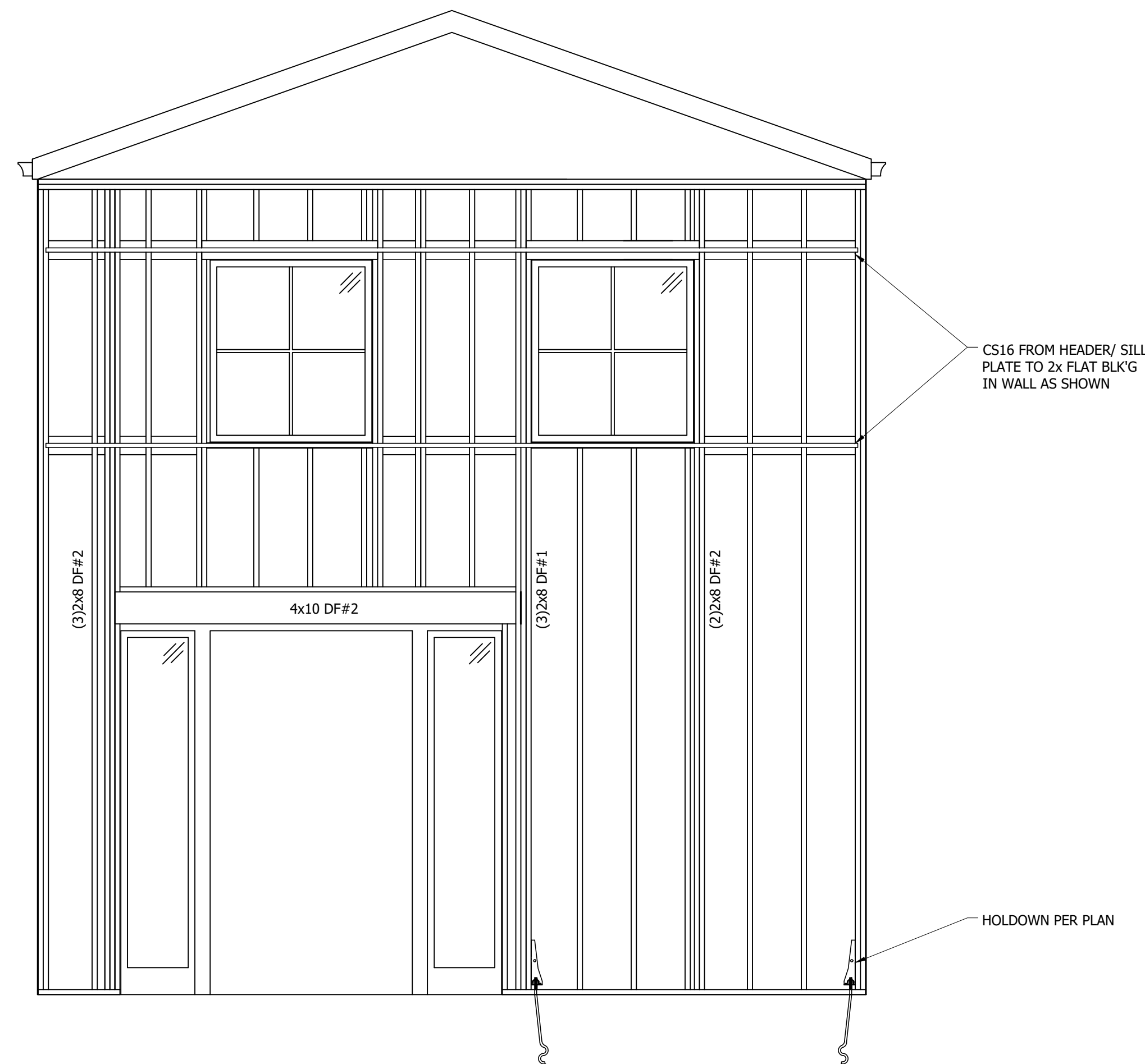
REVISIONS:	
▲ CORRECTION 1.2022.7-18	
PLOT DATE:	8/8/2022
DRAWN BY:	JM
CHECKED BY:	BJS

SHEET  
S3.3

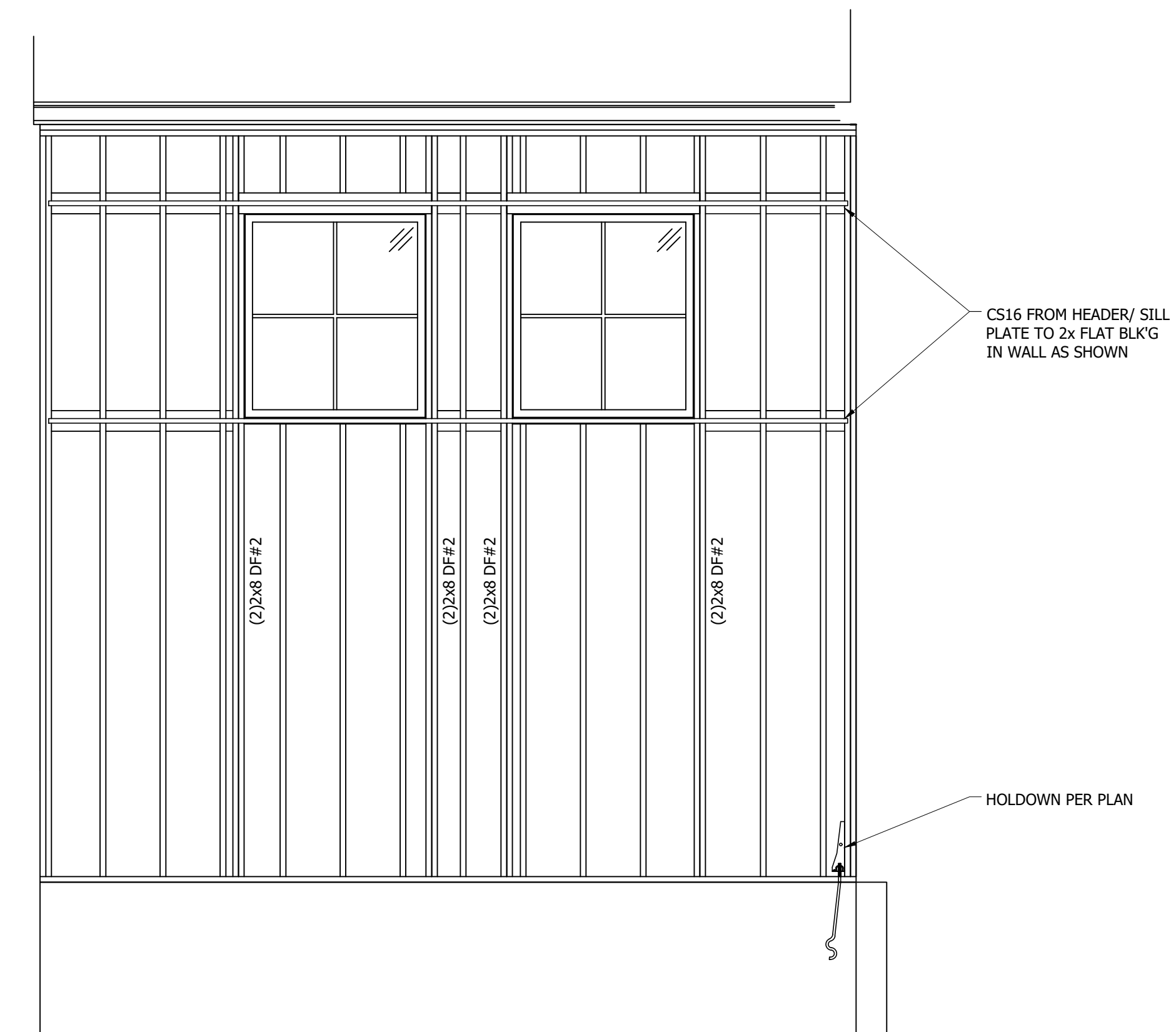




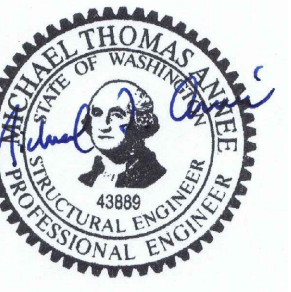
1 2x Rafter Parallel to Exterior Wall  
3/4" = 1'-0"



10 North Entry Wall Elevation  
3/8" = 1'-0"



12 West Entry Wall Elevation  
3/8" = 1'-0"



STRUCTURAL DETAILS

REVISIONS:	
△	CORRECTION 1 2022-7-18
△	
△	
△	
△	

PLOT DATE:	8/8/2022
DRAWN BY:	JM
CHECKED BY:	BJS

SHEET  
**S3.4**

SCALE: IF SHEET IS LESS THAN 24" x 36", IT IS A REDUCED PRINT, REDUCE SCALE ACCORDINGLY  
CORRECTION SET 8/8/2022