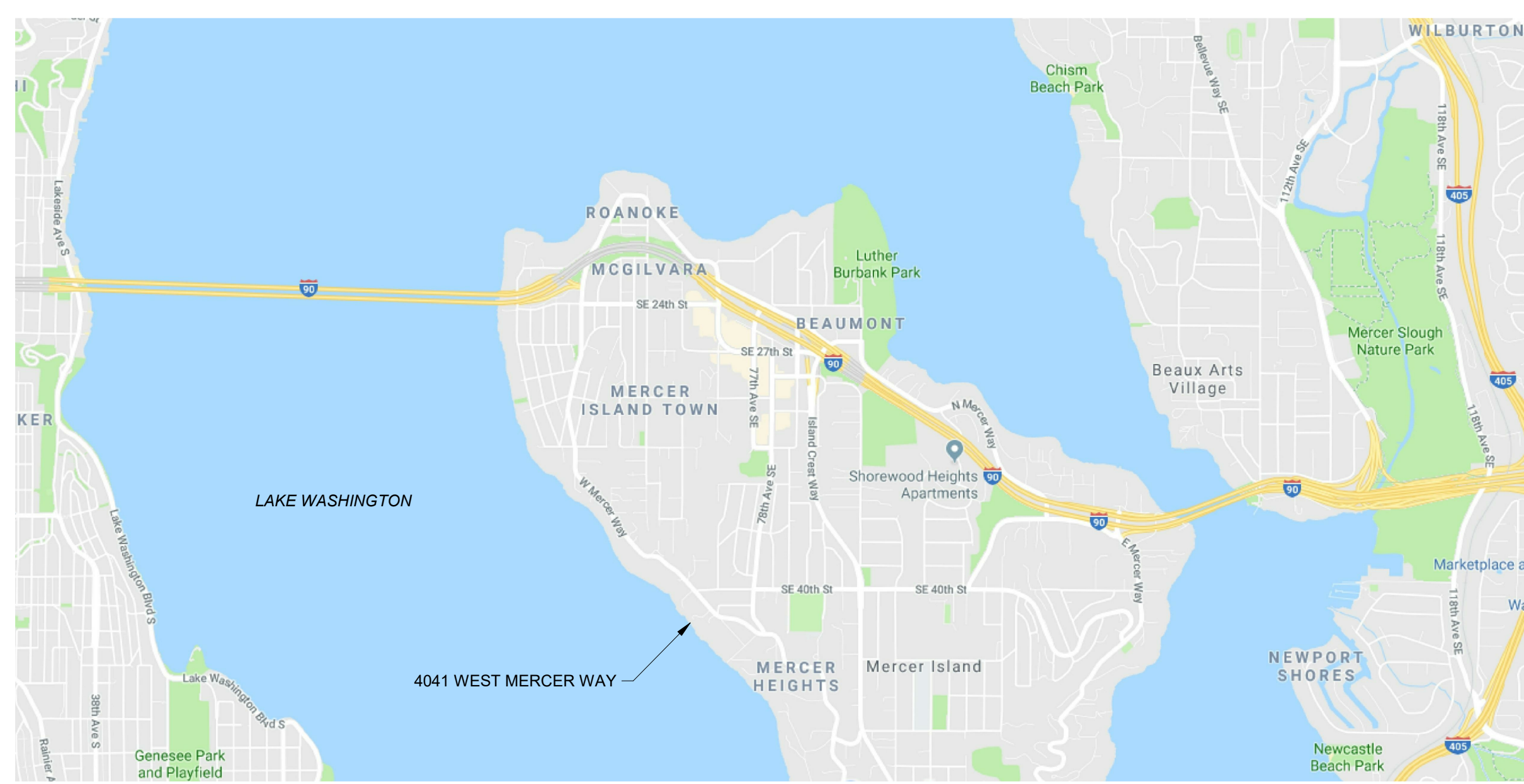
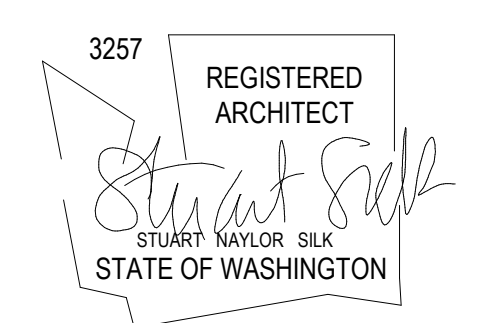


PROJECT TEAM	PROPERTY DATA	CONSTRUCTION DATA	ENERGY DATA	VENTILATION DATA	FIRE PROTECTION DATA	SHEET INDEX	
<p>OWNER David & Jaymee Lundin 2221 22nd Avenue East Seattle, WA 98112 phone email</p> <p>ARCHITECT Stuart Silk Architects 2400 North 45th Street, Suite 200 Seattle, WA 98103 CONTACT: Kelly McShane 206-728-9500 EXT #102 kellym@stuartsilks.com</p> <p>LANDSCAPE ARCHITECT Cambium, Inc. 701 34th Avenue Seattle, WA 98122 CONTACT: Jason Breittling 206-396-7571 jason@cambiumlandscape.com</p> <p>STRUCTURAL ENGINEER Quantum Consulting Engineers LLC 1511 Third Avenue, Suite 323 Seattle, WA 98101 CONTACT: Sandro Kodama 206-957-3907 / 206-919-8853 (cell) dkodama@quantumce.com</p>	<p>CIVIL ENGINEER D.R. Strong Consulting Engineers 620 7th Avenue Kirkland, WA 98033 CONTACT: Walter J. Shostak, P.E. 425-827-3063 walt.shostak@drstrong.com</p> <p>GEOTECHNICAL ENGINEER PanGEO, Inc. 3213 Eastlake Avenue East, Suite B Seattle, WA 98102 CONTACT: Siew L. Tan, P.E. 206-262-0370 / 206-406-8692 (cell) stan@pangeo.com</p> <p>SURVEYOR Hansen Survey & Consulting / 4 Site Surveying, LLC 4227 South Meridian, Suite C-445 Puyallup, WA 98373 CONTACT: Chris Fox 425-235-8440 / 206-832-9158 (cell) 4sitesurveying@comcast.net</p> <p>CONTRACTOR Gallagher Co., LLC 3910 77th Avenue Southeast, Suite 202 Mercer Island, WA 98040 CONTACT: Tom Gallagher 206-232-1600 / 206-849-4992 (cell) tom@gallagherco.net</p>	<p>PROJECT ADDRESS 4041 West Mercer Way Mercer Island, WA 98040</p> <p>LOT AREA 0.48 acres (20,812 square feet)</p> <p>ASSESSOR'S TAX NUMBER 362350-0387</p> <p>LEGAL DESCRIPTION ISLAND PARK REPLAT OF "LOT 3" TOW UND INT IN TRACTS 'A & B' TOW UND INT IN NWLY 10.00 FT OF NELY 203.00 FT OF SELY 1/2 OF LOT 5 MERCER ISLAND SHORT PLAT NO SUB05-006 REC NO 20070726900003 SD SHORT PLAT DAF-- LOT 4 AND THE NWLY 1/2 OF LOT 5 IN BLOCK C OF REPLAT OF ISLAND PARK PLAT</p> <p>ZONING DESIGNATION Residential (R-15)</p> <p>SETBACKS (MICC 19.02.020C.iii) Side (North) setback: 10' Front (East) setback: 10' from existing retaining wall (Vested per 2005 plat permit) Side (South) setback: 5' (Vested per 2005 plat permit setback lines) Rear (West) setback: See 1A-1.2 for shoreline setbacks</p> <p>BUILDING HEIGHT LIMIT 30'-0" ON DOWNHILL SIDE FROM EXISTING OR FINISHED GRADE TO TOP PLATE OF ROOF, WITH ROOF RIDGE NOT EXCEEDING 30' ABOVE THE AVERAGE BUILDING ELEVATION. 30' ABOVE THE A.B.E. (28.55') = 58.55' ABOVE SEA LEVEL</p> <p>SEE 3/A-1.0 FOR A.B.E. CALCULATIONS AND HEIGHT LIMIT DETERMINATION.</p> <p>LOT SLOPE HIGHEST ELEVATION POINT OF LOT 122' ABOVE SEA LEVEL LOWEST ELEVATION POINT OF LOT 18.5' ABOVE SEA LEVEL ELEVATION DIFFERENCE 103.5' HORIZONTAL DISTANCE BETWEEN HIGH AND LOW POINTS 253.6' LOT SLOPE: 103.5' / 253.6' = 40.81%</p> <p>LOT COVERAGE See 1A-1.2 for Lot Coverage Diagram + Lot Coverage Calculations (MICC 19.02.060)</p> <p>SHORELINE SETBACKS See 1A-1.2 for Shoreline Setback Impervious Coverage</p>	<p>SCOPE OF WORK</p> <ul style="list-style-type: none"> Construction of new single family residence with attached garage. Construction of new driveway, site walls and exterior stair. Project team to develop and implement sustainable technologies and building practices. <p>AREA SUMMARY</p> <p>Floor Area</p> <ul style="list-style-type: none"> Main Floor (including Mechanical) 1,823ft² Lower Floor (including Mechanical) 2,686ft² Total Conditioned Floor Areas 4,509ft² Unconditioned Garage (inc. Storage) 538ft² Covered Terrace 325ft² Total Conditioned & Uncond. Area 5,372ft² <p>Roof Area</p> <ul style="list-style-type: none"> Non-vegetated Roof 2,686ft² Vegetated Roof 0ft² Total Roof Area 2,686ft² <p>LOT COVERAGE CALCULATIONS</p> <p>MICC 19.02.060</p> <ul style="list-style-type: none"> Gross Lot Area (0.48 Acres) 20,812ft² Net Lot Area (-614ft² shared road) 20,198ft² Main Structure Roof Area 2,686ft² Vehicular Use 2,551ft² Total Lot Coverage 5,328ft² <ul style="list-style-type: none"> Allowable Lot Coverage (30%-50% slope) 30% Proposed Lot Coverage (5,328/20,198) 26.38% <p>GFA CALCULATIONS</p> <p>MICC 19.02.020D</p> <ul style="list-style-type: none"> Gross Lot Area (0.48 Acres) 20,812ft² Allowed GFA (R-15, 40%) 8,324.8ft² Upper Floor GFA (150% GFA Mod) 2,735ft² Main (Lower) Floor 2,686ft² Total Proposed GFA 5,959ft² 	<p>ENERGY CODE COMPLIANCE</p> <p>PRESCRIPTIVE COMPLIANCE INSULATION & FENESTRATION REQUIREMENTS (2015 WASHINGTON STATE ENERGY CODE)</p> <p>CLIMATE ZONE 4C</p> <p>THE BUILDER SHALL COMPLETE AND POST AN "INSULATION CERTIFICATE FOR RESIDENTIAL CONSTRUCTION" WITHIN THREE (3) FEET OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION PER SEC R401.3</p> <p>PROVIDE MINIMUM BUILDING THERMAL ENVELOPE OR BETTER PER SECTION R402</p> <p>MINIMUM INSULATION R-VALUES</p> <p>CEILING 49 VAULTED CEILING 38 WOOD-FRAMED WALL 21 INT. MASS WALL 21/21 FLOOR 30 BELOW-GRADE WALL 21 INT. SLAB 10 WINDOW & DOOR HEADER 10</p> <p>MINIMUM INSULATION U-FACTORS</p> <p>FENESTRATION 0.30 SKYLIGHT 0.30</p>	<p>SYSTEM CRITERIA PER 2015 IRC TABLE M1507.3.3 (1) CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AIRFLOW RATE REQUIREMENTS: PROVIDE 135 CFM AIRFLOW.</p> <p>PER 2015 IRC TABLE M1507.3.3 (2) INTERMITTENT WHOLE-HOUSE MECHANICAL VENTILATION RATE FACTORS, RUN TIME % IN EACH 4-HOUR SEGMENT TO BE 75% WITH A FACTOR OF 1.3: 135 CFM X 1.3 = 175.5 CFM</p> <p>MINIMUM OF .35 AIR EXCHANGES PER HOUR FOR ALL HABITABLE ROOMS. MAXIMUM OF .50 AIR EXCHANGES PER HOUR FOR ALL HABITABLE ROOMS.</p> <p>SYSTEM COMPONENTS</p> <ul style="list-style-type: none"> TIMER INTAKE GRILL & DUCTING (FROM EXTERIOR) MOTORIZED DAMPER ELECTRIC AIR TEMPERING UNIT INTAKE BLOWER DISTRIBUTION DUCTING (HABITABLE ROOMS) DISTRIBUTION GRILLS (HABITABLE ROOMS) ELECTRIC EXHAUST FAN EXHAUST DUCTING EXHAUST PORT WITH BACK DRAFT DAMPER <p>SYSTEM FUNCTION INTAKE BLOWER, AIR TEMPERING UNIT, AND EXHAUST FAN TO BE CONNECTED TO TIMER FOR SYNCHRONIZED, INTERMITTENT USE THROUGHOUT EACH DAY. FRESH AIR FROM THE EXTERIOR IS PULLED THROUGH AIR TEMPERING UNIT, THEN DISTRIBUTED THROUGH DUCTING TO ALL HABITABLE ROOMS. A BALANCED QUANTITY OF AIR IS SIMULTANEOUSLY EVACUATED FROM THE INTERIOR VIA THE EXHAUST FAN DUCTED TO THE EXTERIOR.</p>	<p>PROVIDE AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13D FOR SINGLE FAMILY RESIDENCE</p> <p>EGRESS, SEPARATION, FIRE PROTECTION SYSTEMS AND EMERGENCY ACCESS SHALL MEET THE REQUIREMENTS OF 2015 INTERNATIONAL FIRE CODE</p> <p>AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED IN DWELLING UNITS AND SLEEPING UNITS, PER SECTION R315.</p> <p>NOTE: WHEN MORE THAN ONE CARBON MONOXIDE ALARM IS REQUIRED TO BE INSTALLED, THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE UNIT.</p>	<p>SHEET # SHEET NAME</p> <p>ARCHITECTURAL</p> <p>A-1.0 PROJECT DATA A-1.1 GENERAL NOTES A-1.2 SITE PLAN</p> <p>SURVEY</p> <p>CIVIL</p> <p>C1 TESC PLAN C2 TESC DETAILS C3 STORM DRAINAGE PLAN C4 NOTES & DETAILS C5 NOTES & DETAILS</p> <p>ARCHITECTURAL</p> <p>A-2.1 LOWER FLOOR PLAN A-2.2 MAIN FLOOR PLAN A-2.3 CLERESTORY PLAN A-2.4 ROOF PLAN A-3.0 EXTERIOR ELEVATIONS A-3.1 EXTERIOR ELEVATIONS A-3.2 EXTERIOR ELEVATIONS A-4.0 BUILDING SECTIONS A-4.1 BUILDING SECTIONS A-4.2 BUILDING SECTIONS A-5.0 WALL SECTIONS A-5.1 WALL SECTIONS A-5.2 WALL SECTIONS A-6.0 DOOR & WINDOW SCHEDULES A-7.0 FIREPLACE DETAILS A-7.1 STAIR DETAILS</p> <p>STRUCTURAL</p> <p>S1.0 GENERAL STRUCTURAL NOTES S1.1 GENERAL STRUCTURAL NOTES S2.0 FOUNDATION PLAN S2.1 MAIN FLOOR FRAMING PLAN S2.2 LOW ROOF / CLERESTORY FRAMING PLAN S2.3 UPPER ROOF FRAMING PLAN S3.0 TYPICAL FOUNDATION/SLAB DETAILS S3.1 DETAILS S3.2 DETAILS S4.0 TYPICAL WOOD DETAILS S4.1 TYPICAL WOOD DETAILS S4.2 TYPICAL FLOOR DETAILS S4.3 TYPICAL DETAILS S4.4 DETAILS S4.5 DETAILS S4.6 DETAILS S5.0 DETAILS</p> <p>SHORING</p> <p>SH1.0 TYPICAL SHORING NOTES SH1.1 TYPICAL SHORING DIAGRAM SH2.0 SHORING PLAN SH3.0 SHORING ELEVATIONS SH3.1 SHORING ELEVATIONS SH4.0 TYPICAL SHORING SCHEDULE AND DETAILS SH4.1 TYPICAL SHORING SCHEDULE AND DETAILS</p> <p>LANDSCAPE</p> <p>L1 LANDSCAPE PLAN: SHORELINE PLANTING</p>

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STUART SILK ARCHITECTS

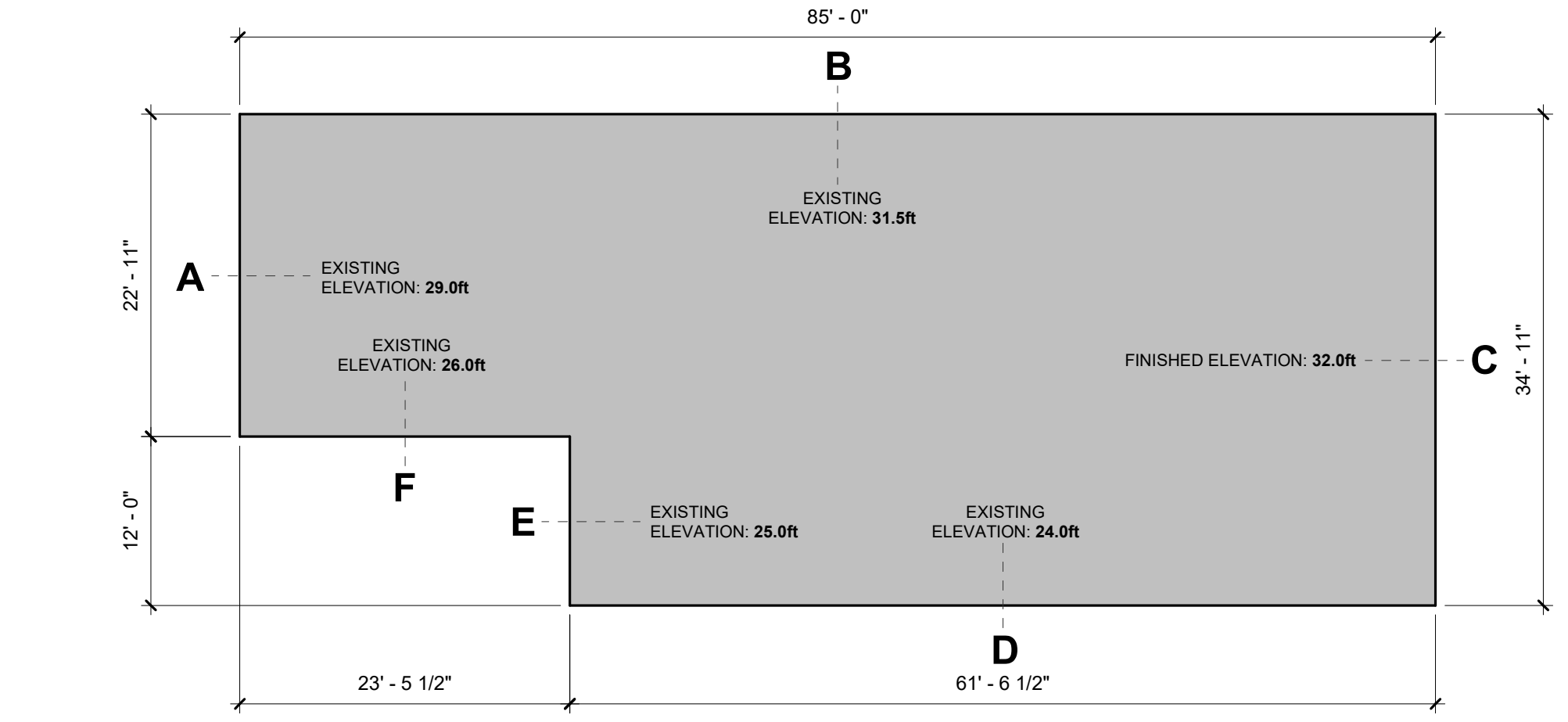


1 LOCATION MAP
NOT TO SCALE



2 VICINITY MAP
NOT TO SCALE

ENERGY CODE CREDITS		OPTION DESCRIPTION		OPTION DESCRIPTION	
MEDIUM DWELLING UNIT (<5000 ft²): 3.5 CREDITS REQUIRED					
OPTION	DESCRIPTION	OPTION	DESCRIPTION	OPTION	DESCRIPTION
3A	HIGH EFFICIENCY HVAC EQUIPMENT: GAS, PROPANE OR OIL-FIRED FURNACE WITH MINIMUM AFUE OF 94 OR GAS, PROPANE OR OIL-FIRED BOILER WITH MINIMUM AFUE OF 92% TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY. 1.0 CREDIT	4	HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM: ALL HEATING AND COOLING SYSTEM COMPONENTS INSTALLED INSIDE CONDITIONED SPACE. THIS INCLUDES ALL EQUIPMENT AND DISTRIBUTION SYSTEM COMPONENTS SUCH AS FORCED AIR DUCTS, HYDRONIC PIPING, HYDRONIC FLOOR HEATING LOOP, CONVECTORS AND RADIATORS. ALL COMBUSTION EQUIPMENT SHALL BE DIRECT VENT OR SEALED COMBUSTION. FOR FORCED AIR DUCTS: A MAXIMUM OF 10 LINEAR FEET OF RETURN DUCTS AND 5 LINEAR FEET OF SUPPLY DUCTS MAY BE LOCATED OUTSIDE THE CONDITIONED SPACE. ALL METALLIC DUCTS LOCATED OUTSIDE THE CONDITIONED SPACE MUST HAVE BOTH TRANSVERSE AND LONGITUDINAL JOINTS SEALED WITH MASTIC. IF FLEX DUCTS ARE USED, THEY CANNOT CONTAIN SPLICES. FLEX DUCT CONNECTIONS MUST BE MADE WITH NYLON STRAPS AND INSTALLED USING A PLASTIC STRAPPING TENSIONING TOOL. DUCTS LOCATED OUTSIDE THE CONDITIONED SPACE MUST BE INSULATED TO A MINIMUM OF R-5. LOCATING SYSTEM COMPONENTS IN CONDITIONED CRAWL SPACES IS NOT PERMITTED UNDER THIS OPTION. ELECTRIC RESISTANCE HEAT AND DUCTLESS HEAT PUMPS ARE NOT PERMITTED UNDER THIS OPTION. DIRECT COMBUSTION HEATING EQUIPMENT WITH AFUE LESS THAN 80% IS NOT PERMITTED UNDER THIS OPTION. TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SHOW THE LOCATION OF THE HEATING AND COOLING EQUIPMENT AND ALL THE DUCTWORK. 1.0 CREDIT	5C	EFFICIENT WATER HEATING: GAS, PROPANE OR OIL WATER HEATER WITH A MINIMUM E.F. OF 0.91 1.5 CREDITS



AVERAGE BUILDING ELEVATION (per MERCER ISLAND CITY CODE 19.02.020.E) = (WEIGHTED SUM OF WALL MID-POINT ELEVATIONS) / (TOTAL LENGTH OF WALL SEGMENTS)

[WEIGHTED SUM = SUM OF: (MID-POINT ELEVATION OF EACH INDIVIDUAL WALL SEGMENT) x (LENGTH OF EACH INDIVIDUAL WALL SEGMENT)]

or $(A \times a) + (B \times b) + (C \times c) + (D \times d) + (E \times e) + (F \times f) / (a + b + c + d + e + f)$

- WEIGHTED SUM CALCULATION: (WALL A = 29 x 22.92) + (WALL B = 31.5 x 85) + (WALL C = 32 x 34.92) + (WALL D = 24.0 x 61.54) + (WALL E = 25 x 12) + (WALL F = 26 x 23.46) = **6815.77**
- TOTAL LENGTH OF WALL SEGMENTS: 22.92ft + 85ft + 34.92ft + 61.54ft + 12ft + 23.46ft = **239.84ft**
- AVG. BUILDING ELEVATION CALCULATION: 6846.54 / 239.84 = **28.55ft**

3 AVERAGE BUILDING ELEVATION CALCULATION
NOT TO SCALE

DESIGN	SNS, KM	
DRAWN	TES	
CHECKED	DM	
SHEET ISSUE DATE	01/08/2019	
DRAWING SETS		
REVISIONS		
#	DATE	DESCRIPTION

Stuart Silk Architects

2400 N. 45th Street
Seattle, WA 98103
WWW.STUARTSILK.COM

LUNDIN RESIDENCE

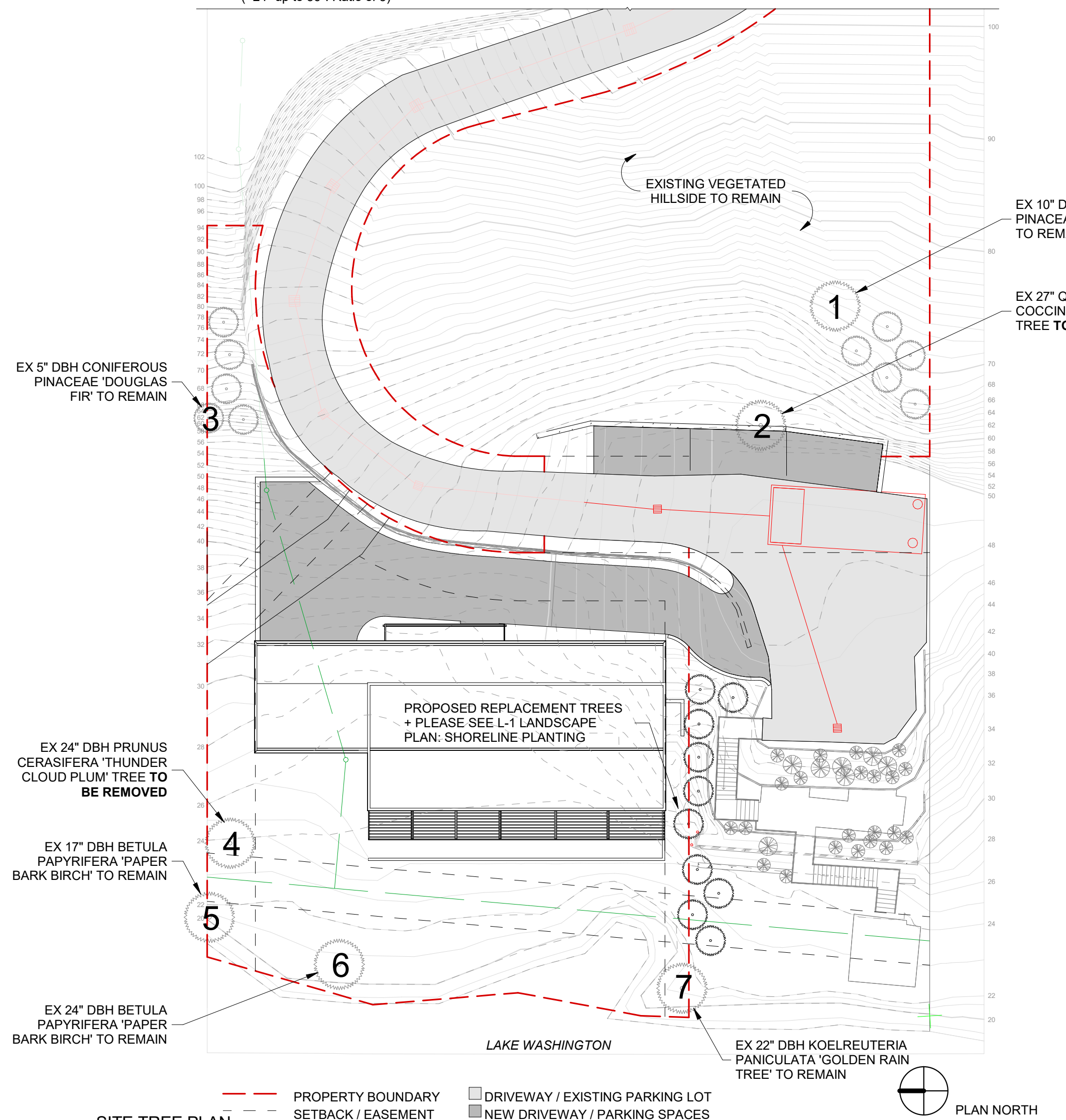
4041 West Mercer Way
Mercer Island, WA 98040

PERMIT SET
PROJECT DATA

A-1.0

TREE CALCULATIONS

- MICC 19.10.010**
- No. of Trees 36" or greater: 0
 - No. of Trees 24" or greater: 3
 - No. of Exceptional Trees: 0
 - No. of Large Regulated Trees (over 10" D): 6
 - No. of Large Reg. Trees Proposed Removal: 2
 - % of Trees to be Retained: 66.66%
- TREE REPLACEMENT**
- No. of Trees Proposed for Removal: 2
 - No. of Trees Reuiled for Replacement (>24" up to 36": Ratio of 3): 6

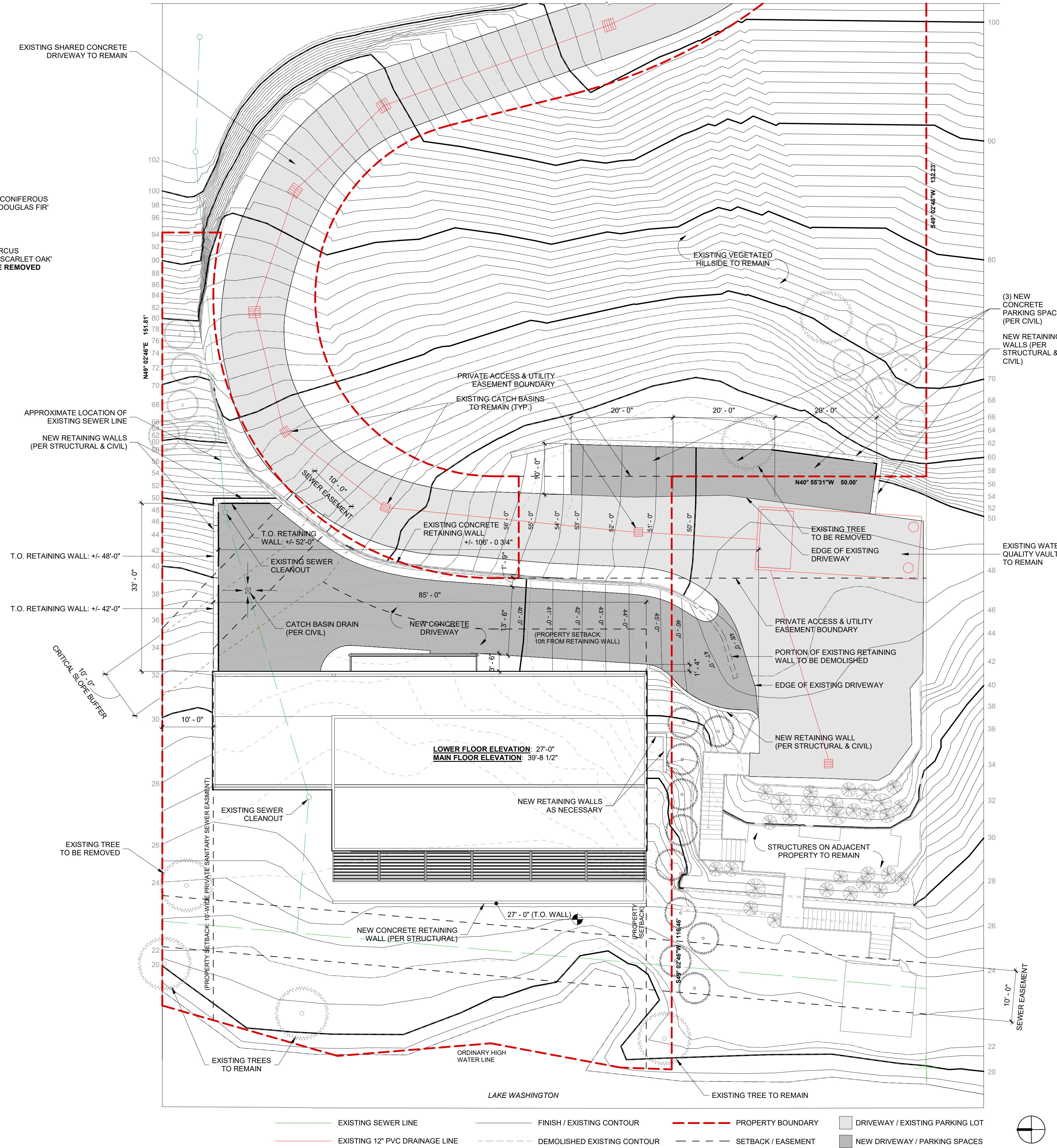
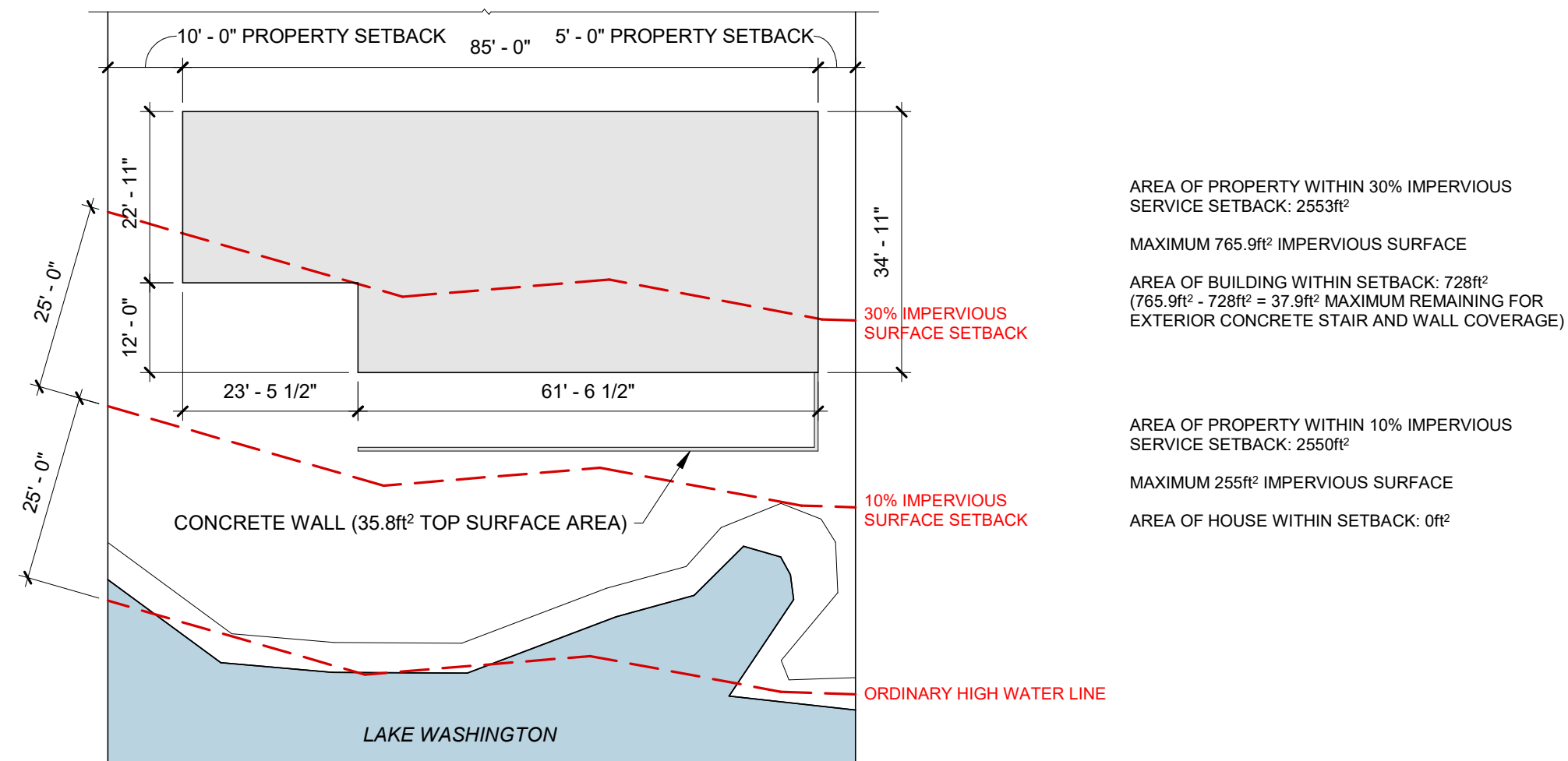


LOT COVERAGE CALCULATIONS

- MICC 19.02.060**
- Gross Lot Area (0.48 Acres): 20,812ft²
 - Net Lot Area (-614ft² shared road): 20,198ft²
 - Main Structure Roof Area: 2,686ft²
 - Vehicular Use: 2,551ft²
 - Total Lot Coverage: 5,237ft²
 - Allowable Lot Coverage (30%-50% slope): 30%
 - Proposed Lot Coverage (5,328/20,198): 26.38%

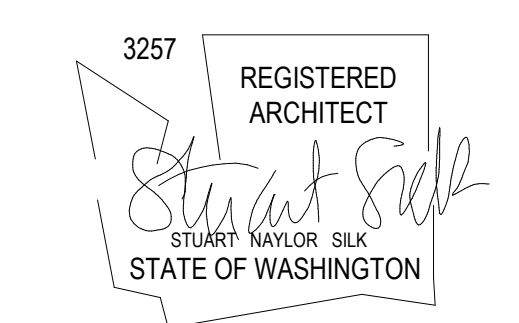
GFA CALCULATIONS

- MICC 19.02.020D**
- Gross Lot Area (0.48 Acres): 20,812ft²
 - Allowed GFA (R-15, 40%): 8,324.8ft²
 - Upper Floor GFA (150% GFA Mod): 2,735ft²
 - Main (Lower) Floor: 2,686ft²
 - Total Proposed GFA: 5,959ft²



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DESIGN	SNS, KM	
DRAWN	TES	
CHECKED	DM	
SHEET ISSUE DATE	01/14/2019	
DRAWING SETS		
REVISIONS		
#	DATE	DESCRIPTION

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2400 N. 45th Street
Seattle, WA 98103
WWW.STUARTSILK.COM

LUNDIN RESIDENCE

4041 West Mercer Way
Mercer Island, WA 98040

PERMIT SET
SITE PLAN

A-1.2

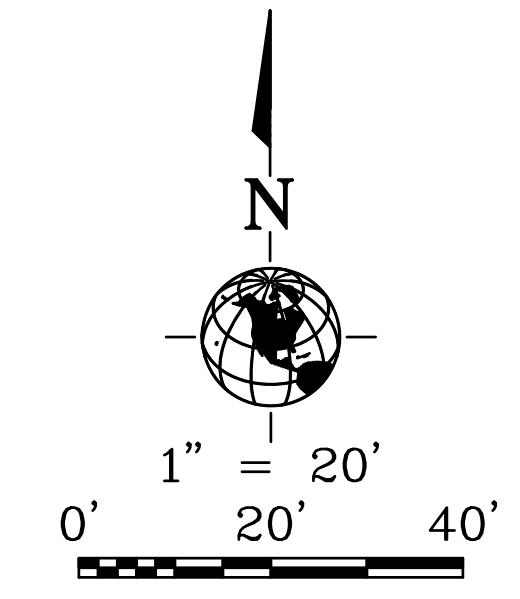
PORTION OF THE NE 1/4, NW 1/4, SECTION 13, TWP. 24 N., RGE. 4 E., W.M.
KING COUNTY, WASHINGTON

CURVE TABLE

CURVE	RADIUS	DELTA ANGLE	ARC LENGTH
C1	55.00'	105°30'13"	99.36'
C2	35.00'	165°43'08"	101.23'
C3	105.00'	50°32'19"	92.62'

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 40°57'14" E	11.53'
L2	S 40°55'31" E	5.02'
L3	N 49°04'29" E	23.00'
L4	N 40°55'31" W	5.02'
L5	S 55°12'23" E	28.24'



BASIS OF BEARINGS IS PER HUNSAKER SHORT PLAT SUB05-006, KING COUNTY REC. NO. 2007072690003
TOTAL SITE AREA=20,781.8 S.F. OR 0.48 ACRES +/-
KING COUNTY TAX PARCEL NO. 362350-0387-03
ADDRESS: 4041 WEST MERCER WAY, MERCER ISLAND, WA 98040

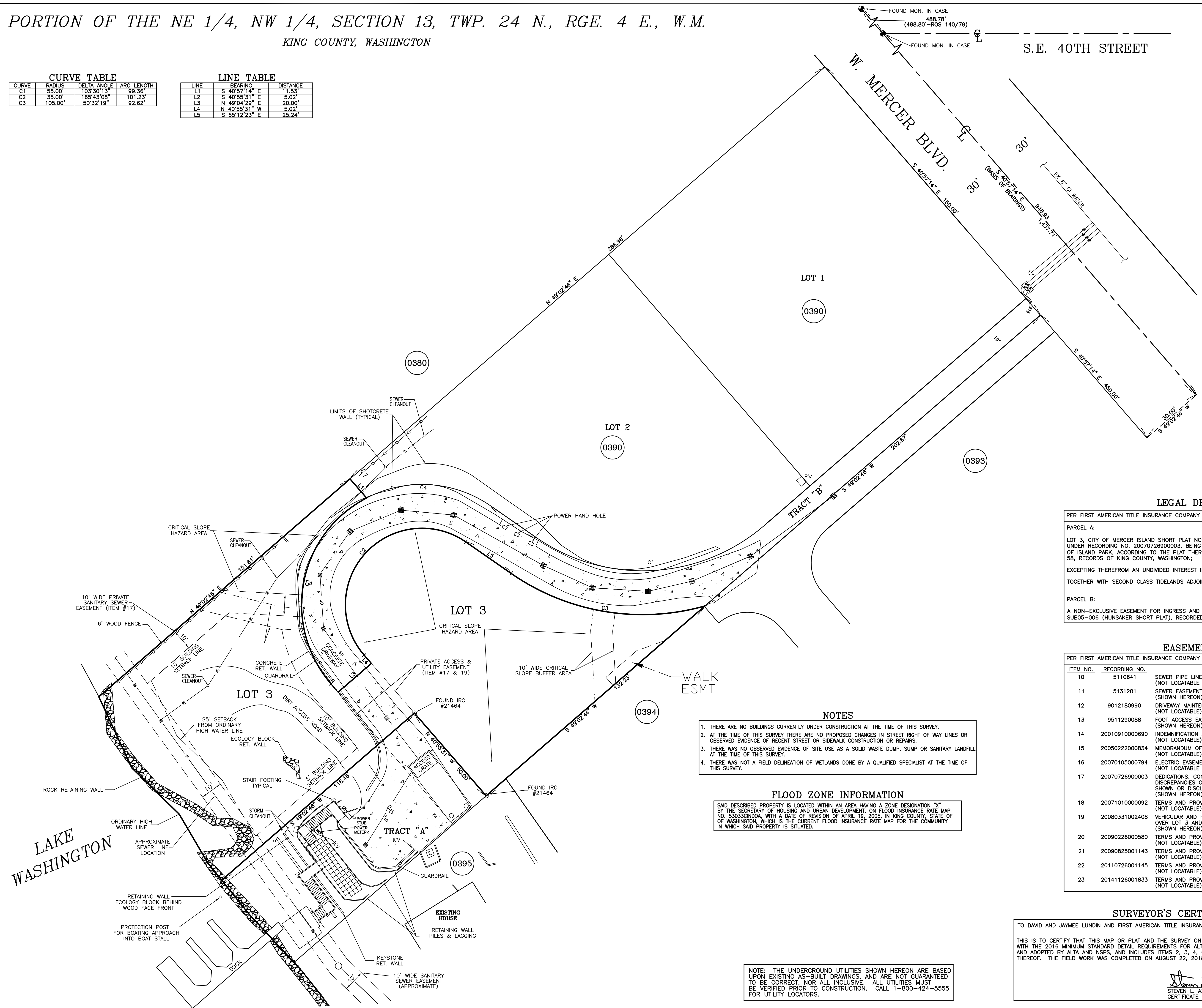
LEGEND

- SS = SANITARY SEWER
- SD = STORM SEWER
- G = GAS LINE
- W = WATER LINE
- ⊕ = GAS VALVE
- ⊕ = WATER VALVE
- ⊕ = WATER METER
- ⊕ = FIRE HYDRANT
- ⊕ = CATCH BASIN
- ⊕ = MANHOLE
- ⊕ = UTILITY POLE
- ⊕ = LIGHT POST
- ⊕ = GUY ANCHOR
- ⊕ = SIGN
- ⊕ = POWER VAULT/TRANSFORMER
- ⊕ = TELE./TV PEDESTAL
- ⊕ = PARKING METER
- ⊕ = SECTION CORNER
- ⊕ = QUARTER CORNER
- ⊕ = FOUND MON. IN CASE
- ⊕ = FOUND PROP. COR. AS NOTED
- ⊕ = SET 1/2" I.R. W/CAP #29538
- 50.00 = SPOT ELEVATION

NO.	REVISIONS	DATE
1		7/16/18



HANSEN SURVEYING & CONSULTING
4227 S. MERIDIAN STE. C-445, PUYALLUP, WA, 98373
TEL: 425-235-8440 EMAIL: hansenurvey@comcast.net



LEGAL DESCRIPTION

PER FIRST AMERICAN TITLE INSURANCE COMPANY FILE NO. 4201-3084704 DATED JULY 2, 2018
PARCEL A:
LOT 3, CITY OF MERCER ISLAND SHORT PLAT NO. SUB05-006 (HUNSAKER SHORT PLAT), RECORDED UNDER RECORDING NO. 2007072690003, BEING A PORTION OF LOTS 4 AND 5, BLOCK C, REPLAT OF ISLAND PARK, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 13 OF PLATS, PAGE(S) 58, RECORDS OF KING COUNTY, WASHINGTON;
EXCEPTING THEREFROM AN UNDIVIDED INTEREST IN TRACT A OF SAID SHORT PLAT.
TOGETHER WITH SECOND CLASS TIDELANDS ADJOINING;
PARCEL B:
A NON-EXCLUSIVE EASEMENT FOR INGRESS AND EGRESS AS DELINEATED ON SHORT PLAT NO. SUB05-006 (HUNSAKER SHORT PLAT), RECORDED UNDER RECORDING NO. 2007072690003.

EASEMENT TABLE

ITEM NO.	RECORDING NO.	NOTE
10	5110641	SEWER PIPE LINE EASEMENT (NOT LOCATABLE - AS CONSTRUCTED)
11	5131201	SEWER EASEMENT (SHOWN HEREON)
12	9012180990	DRIVEWAY MAINTENANCE AGREEMENT (NOT LOCATABLE)
13	9511290088	FOOT ACCESS EASEMENT (SHOWN HEREON)
14	20010910000690	INDEMNIFICATION AND COVENANT FOR GEOLOGICALLY HAZARDOUS AREAS (NOT LOCATABLE)
15	20050222000834	MEMORANDUM OF AGREEMENT (NOT LOCATABLE)
16	20070105000794	ELECTRIC EASEMENT (NOT LOCATABLE - AS CONSTRUCTED)
17	20070726900003	DEDICATIONS, CONDITIONS, RESTRICTIONS, EASEMENTS, BOUNDARY DISCREPANCIES OR ENCROACHMENTS, NOTES AND/OR PROVISIONS SHOWN OR DISCLOSED BY SHORT PLAT (SHOWN HEREON)
18	20071010000092	TERMS AND PROVISIONS CONTAINED IN DOCUMENT (NOT LOCATABLE)
19	20080331002408	VEHICULAR AND PEDESTRIAN INGRESS AND EGRESS EASEMENT OVER LOT 3 AND UTILITY SERVICE OVER TRACT A (SHOWN HEREON)
20	20090226000580	TERMS AND PROVISIONS CONTAINED IN DOCUMENT (NOT LOCATABLE)
21	20090825001143	TERMS AND PROVISIONS CONTAINED IN DOCUMENT (NOT LOCATABLE)
22	20110726001145	TERMS AND PROVISIONS CONTAINED IN DOCUMENT (NOT LOCATABLE)
23	20141126001833	TERMS AND PROVISIONS CONTAINED IN DOCUMENT (NOT LOCATABLE)

NOTES

- THERE ARE NO BUILDINGS CURRENTLY UNDER CONSTRUCTION AT THE TIME OF THIS SURVEY.
- AT THE TIME OF THIS SURVEY THERE ARE NO PROPOSED CHANGES IN STREET RIGHT OF WAY LINES OR OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
- THERE WAS NO OBSERVED EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL AT THE TIME OF THIS SURVEY.
- THERE WAS NOT A FIELD DELINEATION OF WETLANDS DONE BY A QUALIFIED SPECIALIST AT THE TIME OF THIS SURVEY.

FLOOD ZONE INFORMATION

SAID DESCRIBED PROPERTY IS LOCATED WITHIN AN AREA HAVING A ZONE DESIGNATION "X" BY THE SECRETARY OF HOUSING AND URBAN DEVELOPMENT, ON FLOOD INSURANCE RATE MAP NO. 53033CIND04, WITH A DATE OF REVISION OF APRIL 19, 2005, IN KING COUNTY, STATE OF WASHINGTON, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

SURVEYOR'S CERTIFICATION

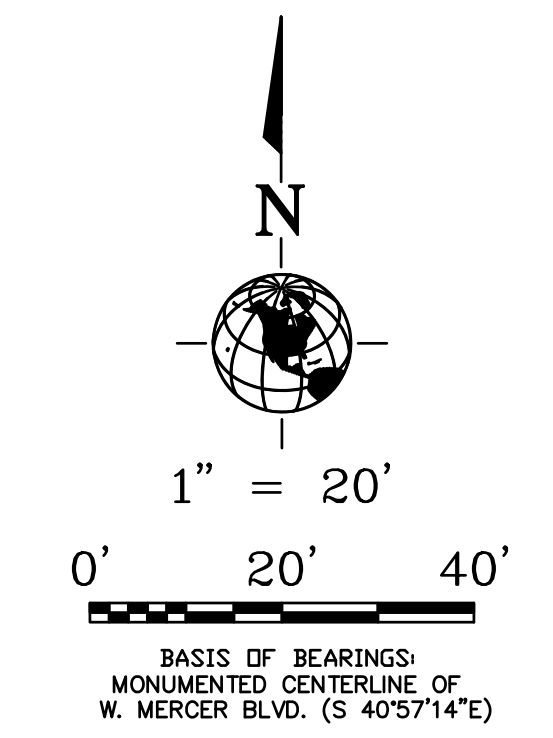
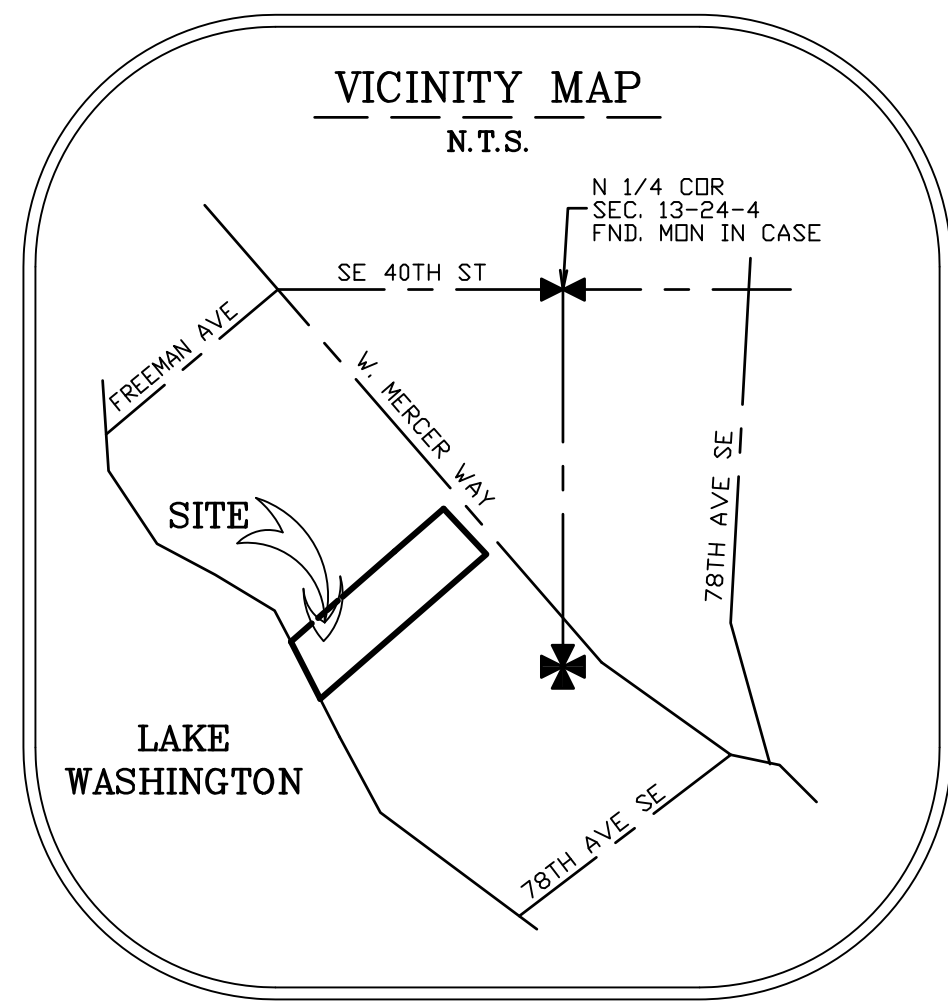
TO DAVID AND JAYMEE LUNDIN AND FIRST AMERICAN TITLE INSURANCE COMPANY:
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 6(b), 7(c), 7(d)(1), 8, 11, 14, 16, 17 AND 18 THEREOF. THE FIELD WORK WAS COMPLETED ON AUGUST 22, 2018.
STEVEN L. AZELTINE
CERTIFICATE NO. 29568
8/29/18
DATE

NOTE: THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON EXISTING AS-BUILT DRAWINGS, AND ARE NOT GUARANTEED TO BE CORRECT, NOR ALL INCLUSIVE. ALL UTILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION. CALL 1-800-424-5555 FOR UTILITY LOCATORS.

ALTA SURVEY OF
4041 WEST MERCER WAY
FOR
DAVID AND JAYMEE LUNDIN
MERCER ISLAND, WASHINGTON

DATE:	8/29/18	DRAWN BY:	RF	CHECKED BY:	SLA
SHEET	1	OF	1	JOB NUMBER	96001 LOT 3 ALTA

PORTION OF THE N.E. 1/4, N.W. 1/4, SECTION 13, TWP. 24 N., RGE. 4 E., W.M.
MERCER ISLAND, KING COUNTY, WASHINGTON



- LEGEND**
- SS = SANITARY SEWER
 - SD = STORM SEWER
 - G = GAS LINE
 - W = WATER LINE
 - WV = WATER VALVE
 - WM = WATER METER
 - FH = FIRE HYDRANT
 - CB = CATCH BASIN
 - M = MANHOLE
 - UP = UTILITY POLE
 - QP = QUARTER CORNER
 - GA = GUY ANCHOR
 - S = SIGN
 - PV = POWER VAULT/TRANSFORMER
 - TE = TELE./TV PEDESTAL
 - PM = PARKING METER
 - SC = SECTION CORNER
 - QC = QUARTER CORNER
 - FM = FOUND MON. IN CASE
 - FP = FOUND PROP. COR. AS NOTED
 - SET 1/2" I.R. W/CAP #21464
 - SE = SPOT ELEVATION
 - ICV = IRRIGATION CONTROL VALVE
 - 12" F = 12" FIRE TREE
 - 12" D = 12" DECIDUOUS TREE
 - BLW = ACTUAL BOTTOM OF WALL

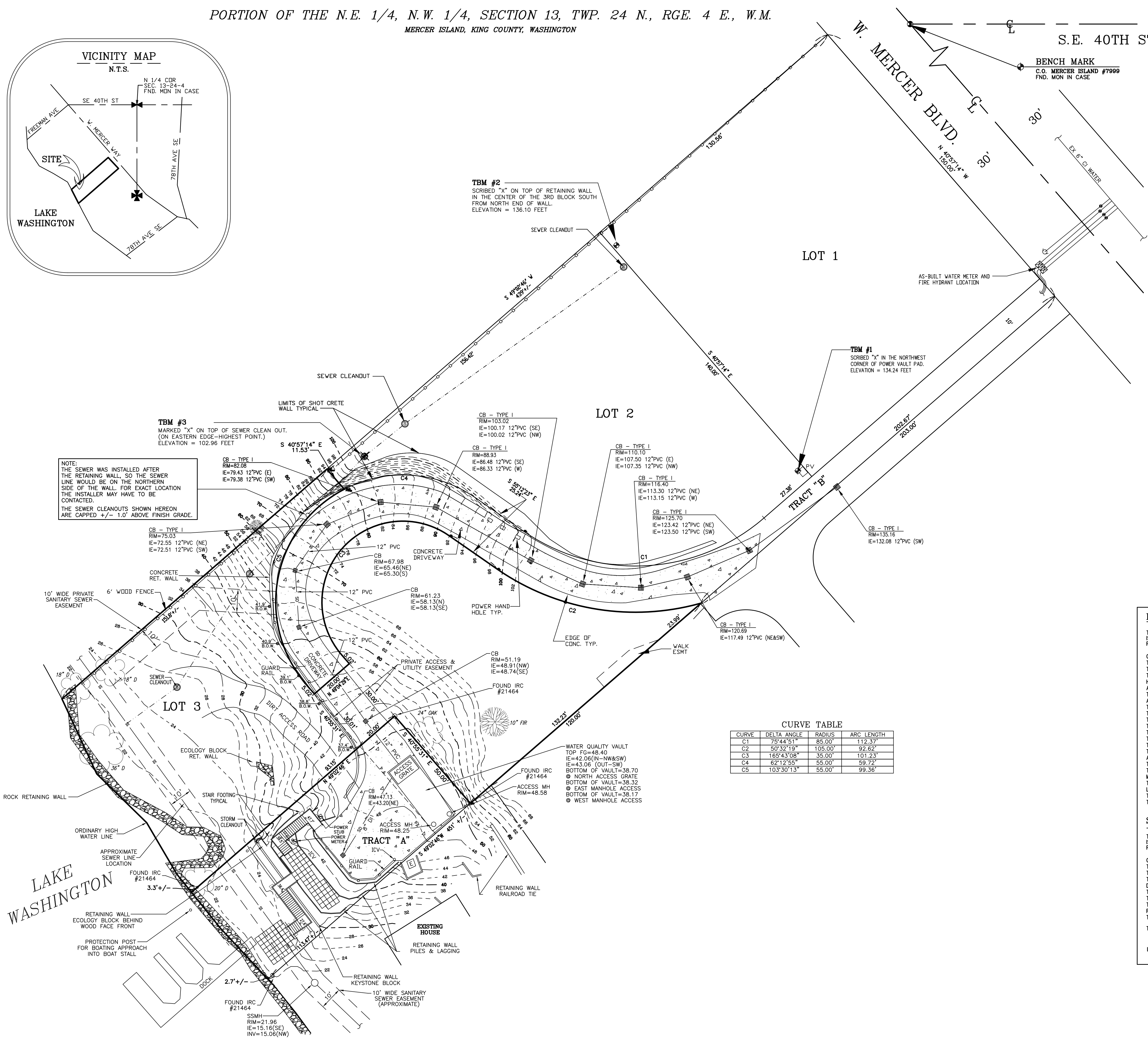
BENCH MARK
VERTICAL DATUM: NAVD 88
CITY OF MERCER ISLAND CONTROL POINT No. 7999
2" BRASS CAP WITH CHISELED "X" IN 4" CONCRETE MON
LOCATED AT THE INTERSECTION OF SE 40TH STREET AND
WEST MERCER WAY.
ELEVATION = 144.320 FEET

TBM #2
SCRIBED "X" ON TOP OF RETAINING WALL
IN THE CENTER OF THE 3RD BLOCK SOUTH
FROM NORTH END OF WALL.
ELEVATION = 136.10 FEET

TBM #1
SCRIBED "X" IN THE NORTHWEST
CORNER OF POWER VAULT PAD.
ELEVATION = 134.24 FEET

TBM #3
MARKED "X" ON TOP OF SEWER CLEAN OUT.
(ON EASTERN EDGE-HIGHEST POINT).
ELEVATION = 102.96 FEET

NOTE:
THE SEWER WAS INSTALLED AFTER
THE RETAINING WALL, SO THE SEWER
LINE WOULD BE ON THE NORTHERN
SIDE OF THE WALL. FOR EXACT LOCATION
THE INSTALLER MAY HAVE TO BE
CONTACTED.
THE SEWER CLEANOUTS SHOWN HEREON
ARE CAPPED +/- 1.0' ABOVE FINISH GRADE.



CURVE TABLE

CURVE	DELTA ANGLE	RADIUS	ARC LENGTH
C1	75°44'51"	85.00'	112.37'
C2	50°32'19"	105.00'	92.62'
C3	165°43'08"	35.00'	101.23'
C4	62°12'56"	55.00'	59.72'
C5	103°30'13"	55.00'	99.36'

LEGAL DESCRIPTION

LOT 3
THAT PORTION OF LOT 4 AND THE NORTHWESTERLY HALF OF LOT 5, BLOCK C, REPLAT OF ISLAND PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 13 OF PLATS, PAGE 58, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
COMMENCING AT THE MOST NORTHERLY CORNER OF SAID LOT 4;
THENCE S 49°02'46" W ALONG THE NORTHWESTERLY LINE OF SAID LOT 4, A DISTANCE OF 286.98 FEET TO THE TRUE POINT OF BEGINNING;
THENCE S 40°57'14" E 11.53 TO A POINT ON A CURVE CONCAVE TO THE EAST, HAVING A RADIUS OF 55.00 FEET;
AND THROUGH WHICH POINT A RADIAL LINE BEARS N 27°25'19" W
THENCE SOUTHERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 103°30'13", AN ARC DISTANCE OF 99.36 FEET;
THENCE S 40°55'31" E 5.02 FEET;
THENCE N 49°04'29" E 20.00 FEET;
THENCE N 40°55'31" W, 5.02 FEET TO A POINT OF CURVE TO THE RIGHT, HAVING A RADIUS OF 35.00 FEET;
THENCE ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 165°43'08", AN ARC DISTANCE OF 101.23 FEET;
THENCE S 55°12'23" E 25.24 FEET TO A POINT OF A CURVE TO THE LEFT, HAVING A RADIUS OF 105.00 FEET;
THENCE ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 50°32'19", AN ARC DISTANCE OF 92.62 FEET THE SOUTHEASTERLY LINE OF THE NORTHWESTERLY HALF OF SAID LOT 5,
THENCE, ON A NON-TANGENT BEARING, S 49°02'46" W, ALONG SAID SOUTHEASTERLY LINE, A DISTANCE OF 131.89 FEET;
THENCE N 40°55'31" W, 50.00 FEET;
THENCE S 49°02'46" W, PARALLEL WITH THE NORTHWESTERLY LINE OF SAID LOT 4, A DISTANCE OF 117 FEET, MORE OR LESS, TO THE SHORELINE OF LAKE WASHINGTON;
THENCE NORTHWESTERLY, ALONG THE SHORELINE OF LAKE WASHINGTON, TO THE NORTHWESTERLY LINE OF SAID LOT 4;
THENCE N 49°02'46" E, ALONG SAID NORTHWESTERLY LINE, A DISTANCE OF 152 FEET, MORE OR LESS, TO THE TRUE POINT OF BEGINNING.

SHARED WATER FRONT TRACT "A"
THAT PORTION OF LOT 4 AND THE NORTHWESTERLY HALF OF LOT 5, BLOCK C, REPLAT OF ISLAND PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 13 OF PLATS, PAGE 58, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
COMMENCING AT THE MOST NORTHERLY CORNER OF SAID LOT 4;
THENCE S 40°57'14" E, ALONG THE NORTHEASTERLY LINE OF LOT 4 AND LOT 5, A DISTANCE OF 150.00 FEET TO THE MOST NORTHERLY CORNER OF THE NORTHWESTERLY HALF OF SAID LOT 5;
THENCE S 49°02'46" W, ALONG THE SOUTHEASTERLY LINE OF SAID NORTHWESTERLY HALF OF SAID LOT 5, A DISTANCE OF 334.89 FEET TO THE TRUE POINT OF BEGINNING;
THENCE N 40°55'31" W 50.00 FEET;
THENCE S 49°02'46" W 116 FEET, MORE OR LESS TO THE SHORELINE OF LAKE WASHINGTON;
THENCE SOUTHEASTERLY, ALONG SAID SHORELINE TO A POINT WHICH BEARS S 49°02'46" W FROM THE POINT OF BEGINNING;
THENCE N 49°02'46" E 116 FEET, MORE OR LESS, TO THE POINT OF BEGINNING.
TOGETHER WITH SECOND CLASS TIDELANDS ADJOINING.

LOT 3 ADDRESS: 4043 WEST MERCER WAY

NOTE: THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON EXISTING AS-BUILT DRAWINGS, AND ARE NOT GUARANTEED TO BE CORRECT, INCLUSIVE. ALL UTILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION. CALL 1-800-424-5555 FOR UTILITY LOCATORS.

<p>DATE: 8/27/18</p> <p>DRAWN BY: PJC</p> <p>CHKD BY: SLA</p>	<p>SHEET 1 OF 1</p> <p>JOB NUMBER 96001</p>
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TOPOGRAPHICAL SURVEY OF LOT 3

HUNTSACKER SHORT PLAT

CITY OF MERCER ISLAND, WASHINGTON.

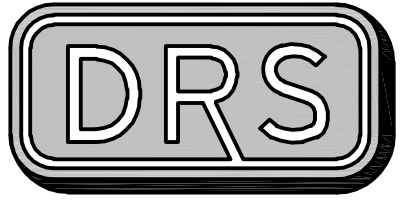
HANSEN SURVEYING

LAND SURVEYORS & CONSULTANTS

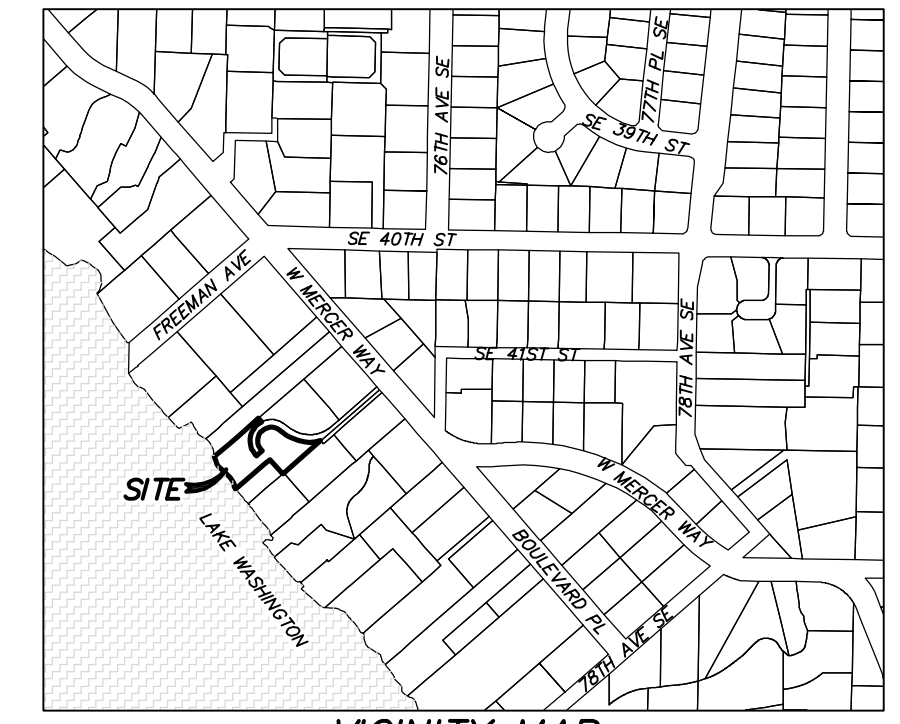
17420 116TH AVE. S.E., RENTON, WA 98058

TEL. 425-235-8440 FAX 425-235-0266

NW 1/4 SECTION 13, TOWNSHIP 24 N, RANGE 4 E, W.M.
4041 W. MERCER WAY



D.R. STRONG CONSULTING ENGINEERS
 ENGINEERS PLANNERS SURVEYORS
 620 - 7th AVENUE KIRKLAND, WA 98033
 O 425.827.3063 F 425.827.2423



VICINITY MAP
 1"=500'

PROJECT CONTACTS:

OWNER: DAVID & JAYMEE LUNDIN
 2221 22ND AVE EAST
 SEATTLE WA 98112

ARCHITECT: STUART SILK ARCHITECTS
 2400 N. 45TH ST, SUITE 200
 SEATTLE, WASHINGTON 98103
 206.728.9500
 CONTACT: KELLY MCSHANE
 KELL1M@STUARTSILK.COM

CIVIL ENGINEER: D.R. STRONG CONSULTING ENGINEERS, INC.
 620 7TH AVE NE
 KIRKLAND, WASHINGTON 98033
 425.827.3063
 CONTACT: WALTER J. SHOSTAK, P.E.
 WALT.SHOSTAK@DRSTRONG.COM

SURVEYOR: HANSEN SURVEYING & CONSULTING
 4227 S. MERIDIAN, SUITE C-445
 PUYALLUP, WASHINGTON 98373
 425.235.8440
 CONTACT: CHRIS FOX

4041 W. MERCER WAY
LUNDIN RESIDENCE

TESC PLAN

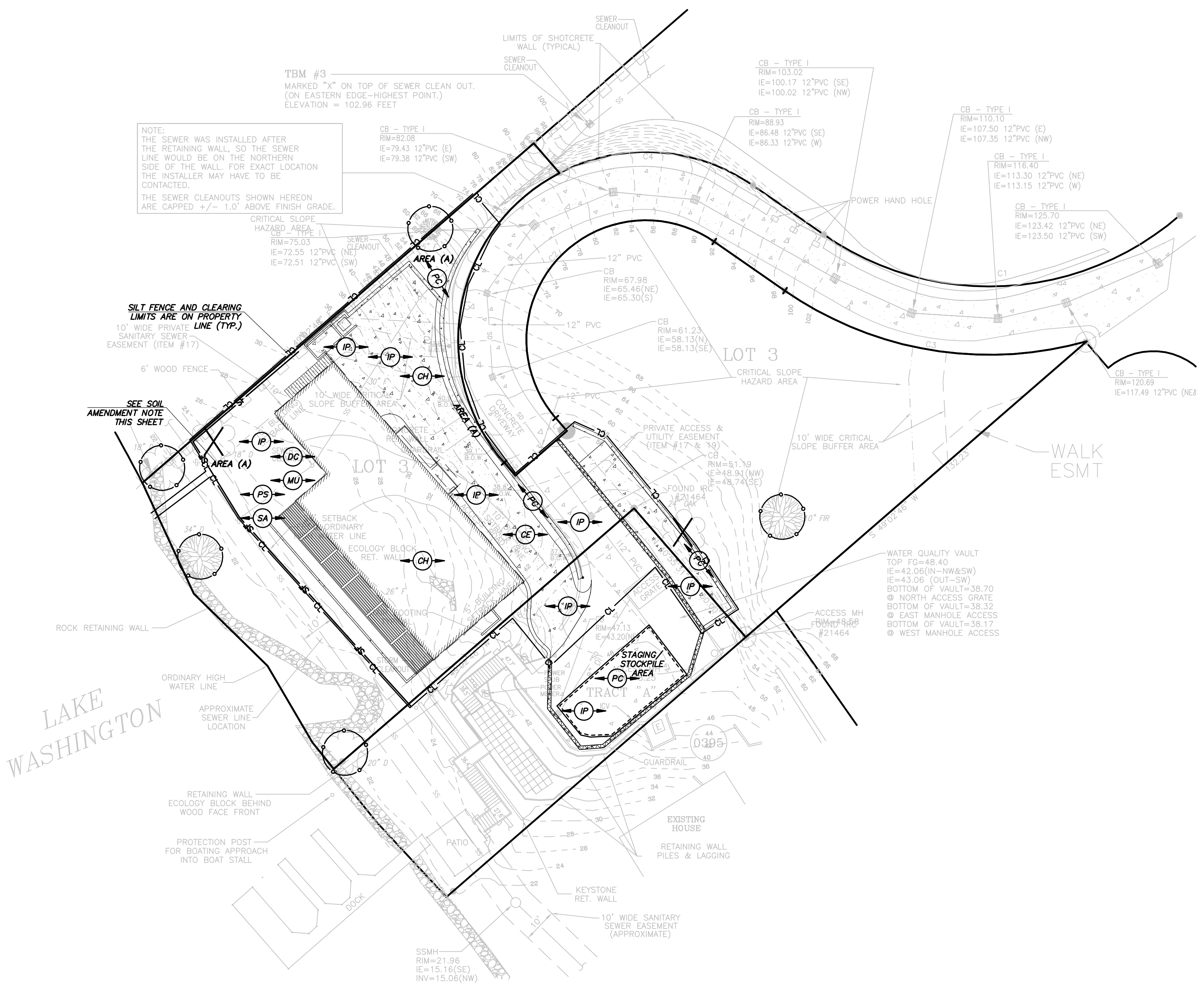
PARCEL NO. 3623500387
 4041 W. MERCER WAY
 MERCER ISLAND, WA 98040

DAVID & JAYMEE LUNDIN

2221 22ND AVE E
 SEATTLE WA 98112



1-8-19



TESC LEGEND:

- FOR ADDITIONAL TESC DETAILS REFER TO DOE 2012 SHMMHW
- CL CONSTRUCTION LIMITS, TO BE FLAGGED OR FENCED WHEN NO SILT FENCE IS PROPOSED (BMP C103).
 - SF SILT FENCE IS PROPOSED (BMP C233).
 - STRAW WATTLES (BMP C235)
 - CE STABILIZED CONSTRUCTION ENTRANCE (BMP C105)
 - IP INLET PROTECTION (BMP C220)
 - DC DUST CONTROL (BMP C140)
 - MU MULCHING, MATTING, & COMPOST BLANKETS (BMP C121, BMP C125)
 - PS PERMANENT SEEDING AND PLANTING (BMP C120)
 - SA POST-CONSTRUCTION SOIL AMENDMENT QUALITY & DEPTH (BMP C120)
 - OH CONCRETE HANDLING (BMP C151)
 - PC PLASTIC COVERING (BMP C123)
 - Tree with 'X' TREE TO BE REMOVED
 - Tree with circle TREE TO BE SAVED, PROVIDE TREE PROTECTION FENCING

SHEET INDEX:

- C1 OF 5 COVER SHEET & T.E.S.C. PLAN
- C2 OF 5 T.E.S.C. NOTES & DETAILS
- C3 OF 5 STORM DRAINAGE PLAN
- C4 OF 5 NOTES & DETAILS
- C5 OF 5 NOTES & DETAILS



GENERAL EROSION CONTROL NOTES:

ALL DISTURBED AREAS SHALL BE STABILIZED USING TYPICAL TESC BMP'S. THE LIMITS OF DISTURBANCE WILL BE DELINEATED WITH HIGH VISIBILITY CONSTRUCTION FENCING. DURING CONSTRUCTION SILT FENCES WILL BE PLACED DOWN SLOPE OF DISTURBED AREAS ALONG WITH STRAW MATTING, NETS, OR PLASTIC COVERING OVER EXPOSED SOIL OR STOCKPILES. TREES TO BE RETAINED WILL BE PROTECTED WITH HIGH VISIBILITY CONSTRUCTION FENCING.

AT THE COMPLETION OF THE PROJECT ALL DISTURBED AREAS WILL BE STABILIZED WITH COMPOST AMENDED SOILS AND HYDROSEEDING OR SOD.

SITE VOLUME CALCULATIONS

CUT VOLUME (CU. YDS.)	FILL VOLUME (CU. YDS.)	NET VOLUME (CU. YDS.)
456	458	2 FILL

ALL VOLUMES ARE APPROXIMATE AND ARE PROVIDED FOR PERMITTING PURPOSES AND REPRESENT FINISH GRADE TO EXISTING GRADE AS SHOWN. CONTRACTOR SHALL RELY ON HIS/HER OWN ESTIMATES FOR DETERMINING ACTUAL EARTHWORK QUANTITIES. THE VOLUMES DO NOT INCLUDE STRIPPING, STRUCTURAL EXCAVATION, EXPANSION/COMPACTION FACTOR OR ANY SOIL TYPE RESTRICTIONS.

GRADING NOTE:

TOTAL AREA TO BE DISTURBED ON-SITE.....9,187 S.F.
 TOTAL AREA TO BE DISTURBED OFF-SITE.....1,090 S.F.
 TOTAL AREA TO BE DISTURBED FOR PROJECT.....10,277 S.F.

FILL SHALL CONSIST OF SUITABLE MATERIAL ORIGINATING FROM THE SITE OR FROM AN APPROVED SUPPLIER.

SOIL AMENDMENT NOTE:

AREA (A): STOCKPILE SITE DUFF AND TOPSOIL FOR ALL DISTURBED PERVIOUS AREAS AND REAPPLY WITH SOIL AMENDMENT AFTER GRADING AND CONSTRUCTION. MINIMUM SCARIFICATION DEPTH 8-INCHES. PROVIDE A TOTAL OF 15 C.Y. OF AMENDMENT FOR AN AREA OF 2,764 S.F.

ON-SITE SOILS:

THE ENTIRE SITE CONTAINS KITSAP SILT LOAM (KpD) SOILS PER THE NRCS SOIL MAP.

P.E. CERTIFICATION FOR SECTION B:

I HEREBY STATE THAT THIS CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN FOR 4041 W. MERCER WAY HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE STANDARD OF CARE AND EXPERTISE WHICH IS USUAL AND CUSTOMARY IN THIS COMMUNITY FOR PROFESSIONAL ENGINEERS. I UNDERSTAND THAT THE CITY OF MERCER ISLAND DOES NOT AND WILL NOT ASSUME LIABILITY FOR THE SUFFICIENCY, SUITABILITY, OR PERFORMANCE OF CONSTRUCTION SMPPP BMPS PREPARED BY ME.

LEGAL DESCRIPTION OF LOT 3: (BY SURVEYOR)

THAT PORTION OF LOT 4 AND THE NORTHWESTERLY HALF OF LOT 5, BLOCK C, REPLAT OF ISLAND PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 13 OF PLATS, PAGE 58, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
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LEGAL DESCRIPTION OF SHARED WATER FRONT TRACT "A": (BY SURVEYOR)

THAT PORTION OF LOT 4 AND THE NORTHWESTERLY HALF OF LOT 5, BLOCK C, REPLAT OF ISLAND PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 13 OF PLATS, PAGE 58, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
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CONSTRUCTION SEQUENCE

- ARRANGE AND ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY INSPECTOR.
- FLAG OR FENCE CLEARING LIMITS.
- CALL ONE-CALL UTILITY LOCATE SERVICE PRIOR TO ANY EXCAVATION WORK.
- GRADE ACCESS ROAD & CONSTRUCT/INSTALL ROCK CONSTRUCTION ENTRANCE IF NECESSARY.
- INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- INSTALL SHORING WALL.
- CONSTRUCT RESIDENCE AND OTHER SITE IMPROVEMENTS.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OR COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- MAINTAIN ACCESS TO OFF-SITE ROADS AND DRIVEWAYS AT ALL TIMES DURING THE DURATION OF THE PROJECT.
- RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
- SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMPS REMOVED IF APPROPRIATE AFTER ACCEPTANCE BY INSPECTOR.

BENCHMARK: (BY SURVEYOR)

VERTICAL DATUM: NAVD 88 CITY OF MERCER ISLAND CONTROL POINT NO. 7999
 2" BRASS CAP WITH CHISELED "X" IN 4" CONCRETE MON.
 LOCATED AT THE INTERSECTION OF SE 40TH STREET AND WEST MERCER WAY.
 ELEVATION = 144.320 FEET

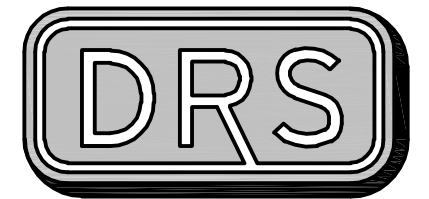
BASIS OF BEARINGS: (BY SURVEYOR)

PER HUNSAKER SHORT PLAT SUB05-006, KING COUNTY REC. NO. 2007072690003

DRAFTED BY: DLR
 DESIGNED BY: WJS
 PROJECT ENGINEER: WJS
 DATE: 1.8.19
 PROJECT NO.: 18113

DRAWING: C1
 SHEET: 1 OF 5

NW 1/4 SECTION 13, TOWNSHIP 24 N, RANGE 4 E, W.M.
4041 W. MERCER WAY



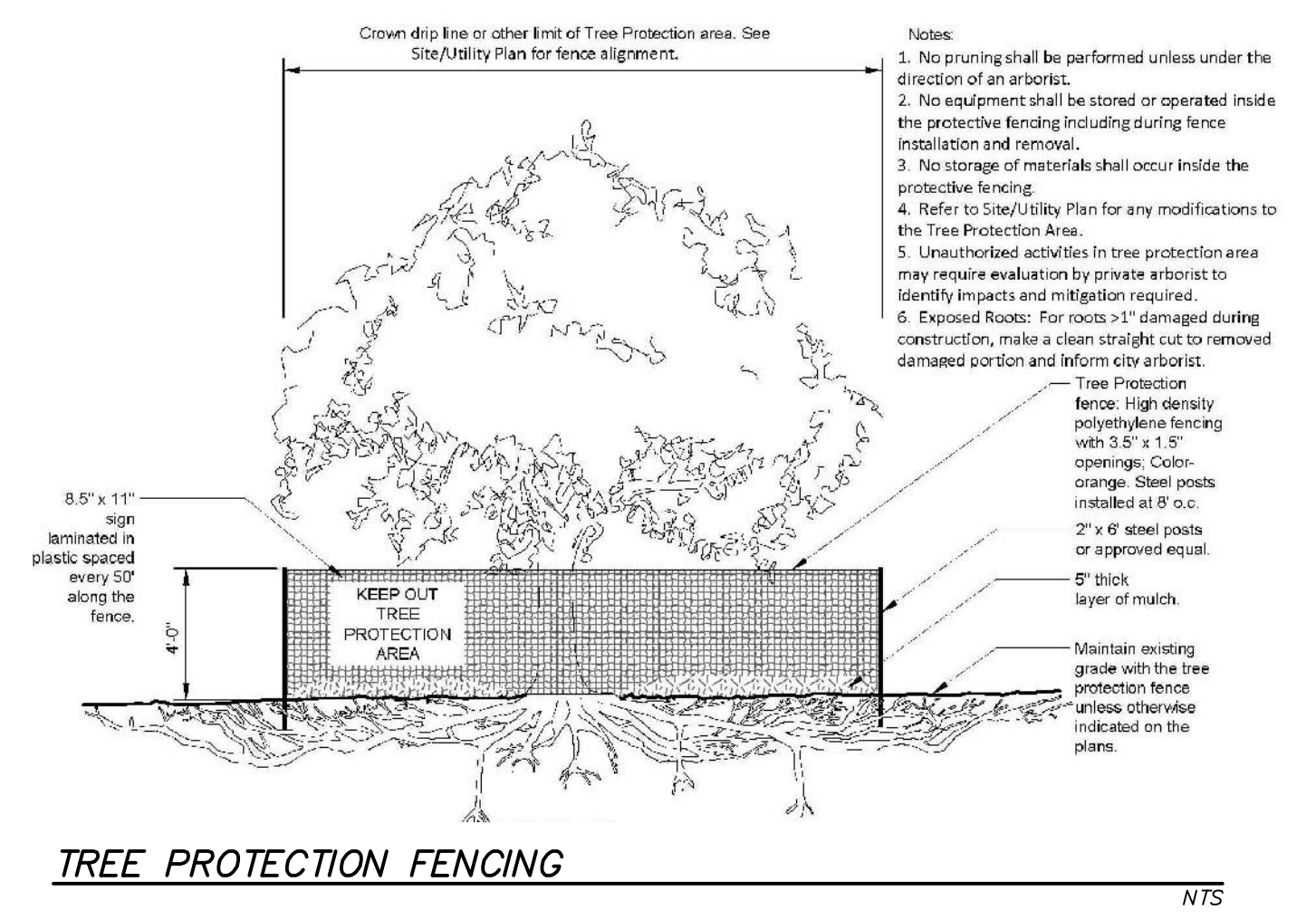
D.R. STRONG
CONSULTING ENGINEERS
 ENGINEERS PLANNERS SURVEYORS
 620 - 7th AVENUE KIRKLAND, WA 98033
 O 425.827.3063 F 425.827.2423

4041 W. MERCER WAY
LUNDIN RESIDENCE

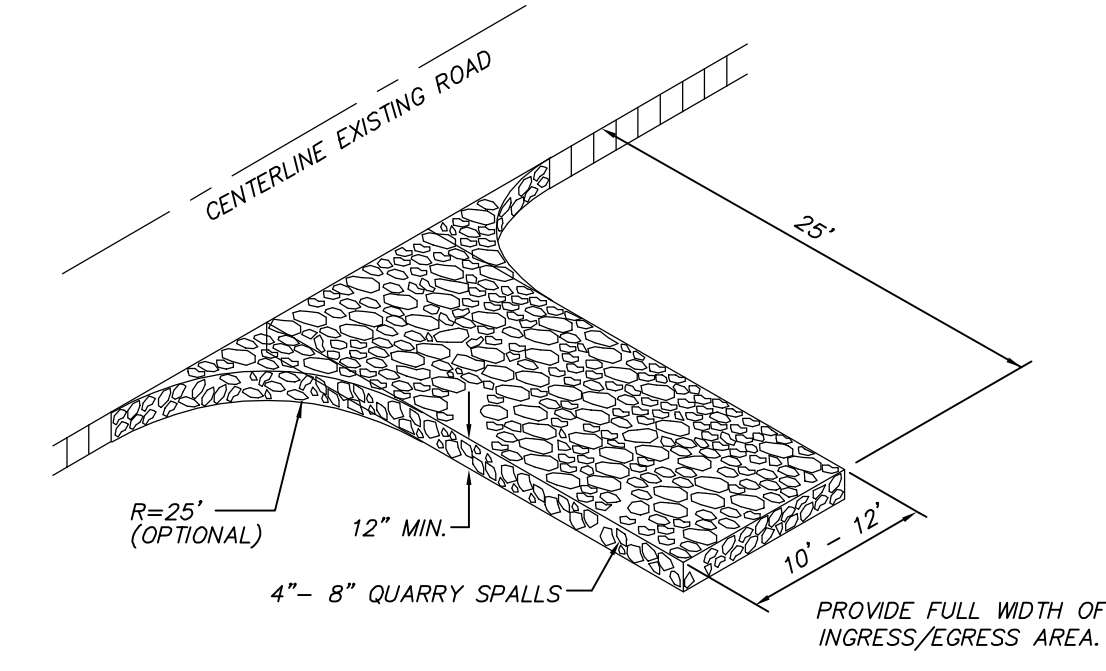
TESC DETAILS
 PARCEL NO. 3623500387
 4041 W. MERCER WAY
 MERCER ISLAND, WA 98040

DAVID & JAYMEE LUNDIN

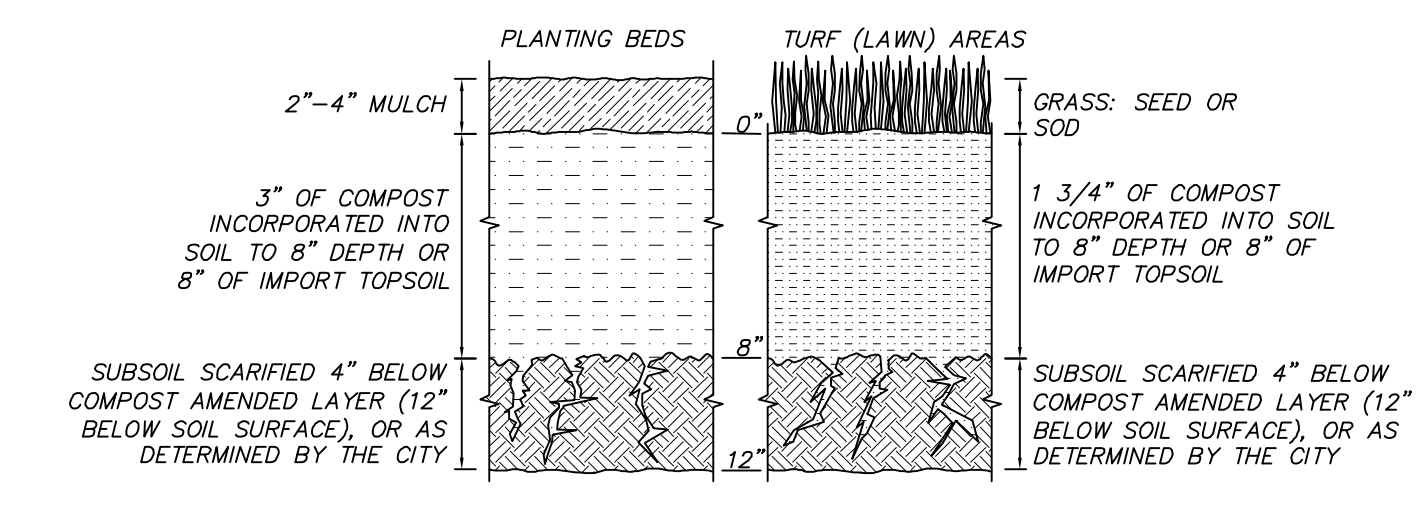
2221 22ND AVE E
 SEATTLE WA 98112



TREE PROTECTION FENCING



GRAVEL CONSTRUCTION ENTRANCE



SOIL AMENDMENT

EROSION AND SEDIMENT CONTROL NOTES:

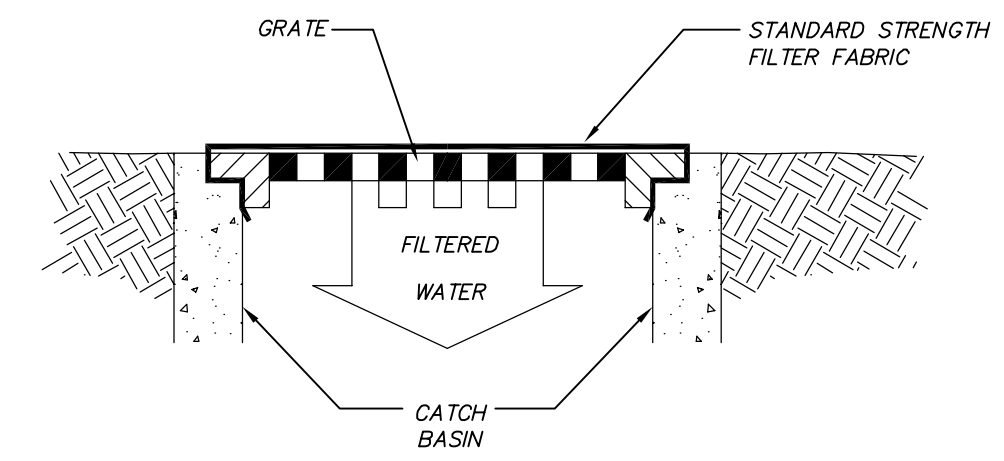
- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, 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 TESC 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.).
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED 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 SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ALL DISTURBED AREAS SHALL BE STABILIZED USING TYPICAL TESC BMP'S. THE LIMITS OF DISTURBANCE WILL BE DELINEATED WITH HIGH VISIBILITY CONSTRUCTION FENCING. DURING CONSTRUCTION SILT FENCES WILL BE PLACED DOWN SLOPE OF DISTURBED AREAS ALONG WITH STRAW MATTING, NETS, OR PLASTIC COVERING OVER EXPOSED SOIL OR STOCKPILES. TREES TO BE RETAINED WILL BE PROTECTED WITH HIGH VISIBILITY CONSTRUCTION FENCING.
- ALL SOIL STOCKPILES TO BE COVERED WITH PLASTIC SHEETING UNTIL SUCH TIME THAT THE SOIL IS EITHER USED OR REMOVED. PILES SHOULD BE SITUATED AND LOCATED SUCH THAT SEDIMENT DOES NOT RUN INTO THE STREET OR ONTO ADJOINING PROPERTIES.
- ALL EXPOSED SOIL AREAS SHALL BE COVERED OR PROTECTED USING AN APPROPRIATE BMP, STABILIZED DENuded AREAS OF THE SITE BY MULCHING, SEEDING, PLANTING, OR SODDING.
- ALL ADJACENT PROPERTIES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION BY APPROPRIATE USE OF VEGETATION BUFFER STRIPS, SEDIMENT BARRIERS, OR FILTERS, DIKES, MULCHING, OR BY A COMBINATION OF THESE MEASURES AND OTHER APPROPRIATE BMP'S.
- PROVIDE FOR PERIODIC STREET CLEANING TO REMOVE ANY SEDIMENT THAT MAY HAVE BEEN TRACKED OFF-SITE. SEDIMENT SHOULD BE REMOVED BY SHOVELING OR SWEEPING AND CAREFULLY REMOVED TO A SUITABLE DISPOSAL AREA WHERE IT WILL NOT BE RE-ERODED.
- ALL INSTALLED EROSION AND SEDIMENT CONTROL BMP'S SHALL BE INSPECTED REGULARLY BY THE GENERAL CONTRACTOR ESPECIALLY AFTER ANY LARGE STORM. MAINTENANCE, INCLUDING REMOVAL AND PROPER DISPOSAL OF SEDIMENT SHOULD BE A NECESSARY TO INSURE THAT SEDIMENT AND EROSION IS CONTROLLED ON SITE.

SOIL AMENDMENT NOTES

- *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.
- *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:
- 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.
 - MULCH PLANTING BEDS WITH 2-4 INCHES OF ORGANIC MATERIAL.
 - USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
 - THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP 17.30), 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.
 - 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 CONDUCIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.
- *IMPLEMENTATION OPTIONS:** THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:
- LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
 - 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.
 - 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.
 - 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.

MAINTENANCE:
 ESTABLISH SOIL QUALITY AND DEPTH TOWARD THE END OF CONSTRUCTION AND ONCE ESTABLISHED, PROTECT FROM COMPACTION, SUCH AS FROM LARGE MACHINERY USE, AND FROM EROSION.
 PLANT VEGETATION AND MULCH THE AMENDED SOIL AREA AFTER INSTALLATION.
 LEAVE PLANT DEBRIS OR ITS EQUIVALENT ON THE SOIL SURFACE TO REPLENISH ORGANIC MATTER.
 REDUCE AND ADJUST, WHERE POSSIBLE, THE USE OF IRRIGATION, FERTILIZERS, HERBICIDES AND PESTICIDES, RATHER THAN CONTINUING TO IMPLEMENT FORMERLY ESTABLISHED PRACTICES.

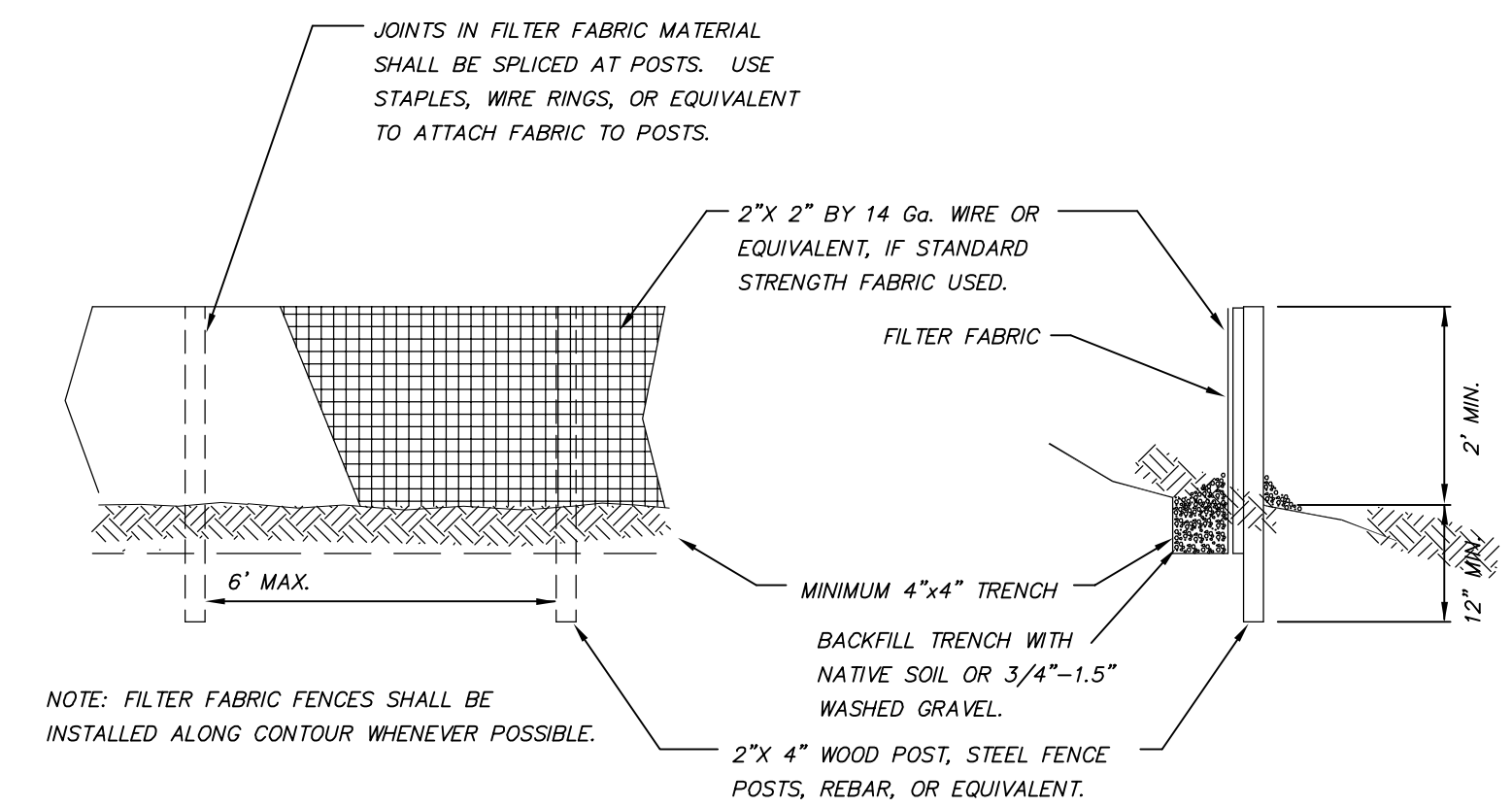


CATCH BASIN INSERT MAINTENANCE STANDARDS

- ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON SITE OR HAULED OFF SITE.
- ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
- REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH BASINS PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

NOTE: ONLY TO BE USED WHERE PONDING OF WATER ABOVE THE CATCH BASIN WILL NOT CAUSE TRAFFIC PROBLEMS AND WHERE OVERFLOW WILL NOT RESULT IN EROSION OF SLOPES.

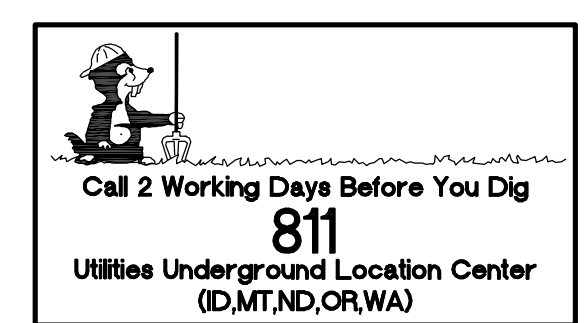
CATCH BASIN INLET FILTER



- 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 SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
- SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6 INCHES HIGH.
- IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.

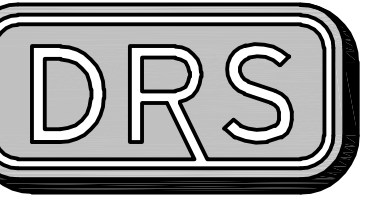
SILT FENCE DETAIL



DRAFTED BY: DLR
 DESIGNED BY: WJS
 PROJECT ENGINEER: WJS
 DATE: 1.8.19
 PROJECT NO.: 18113

DRAWING: C2
 SHEET: 2 OF 5

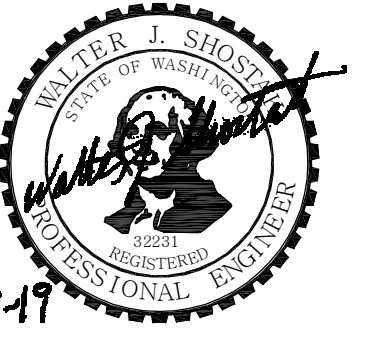
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4041 W. MERCER WAY LUNDIN RESIDENCE
STORM DRAINAGE PLAN
PARCEL NO. 3623500387
4041 W. MERCER WAY
MERCER ISLAND, WA 98040

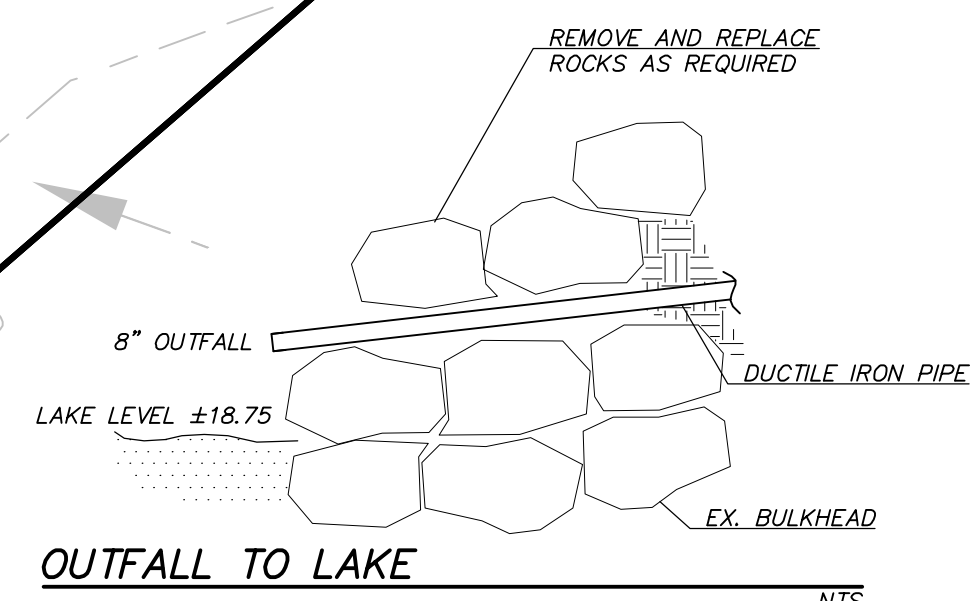
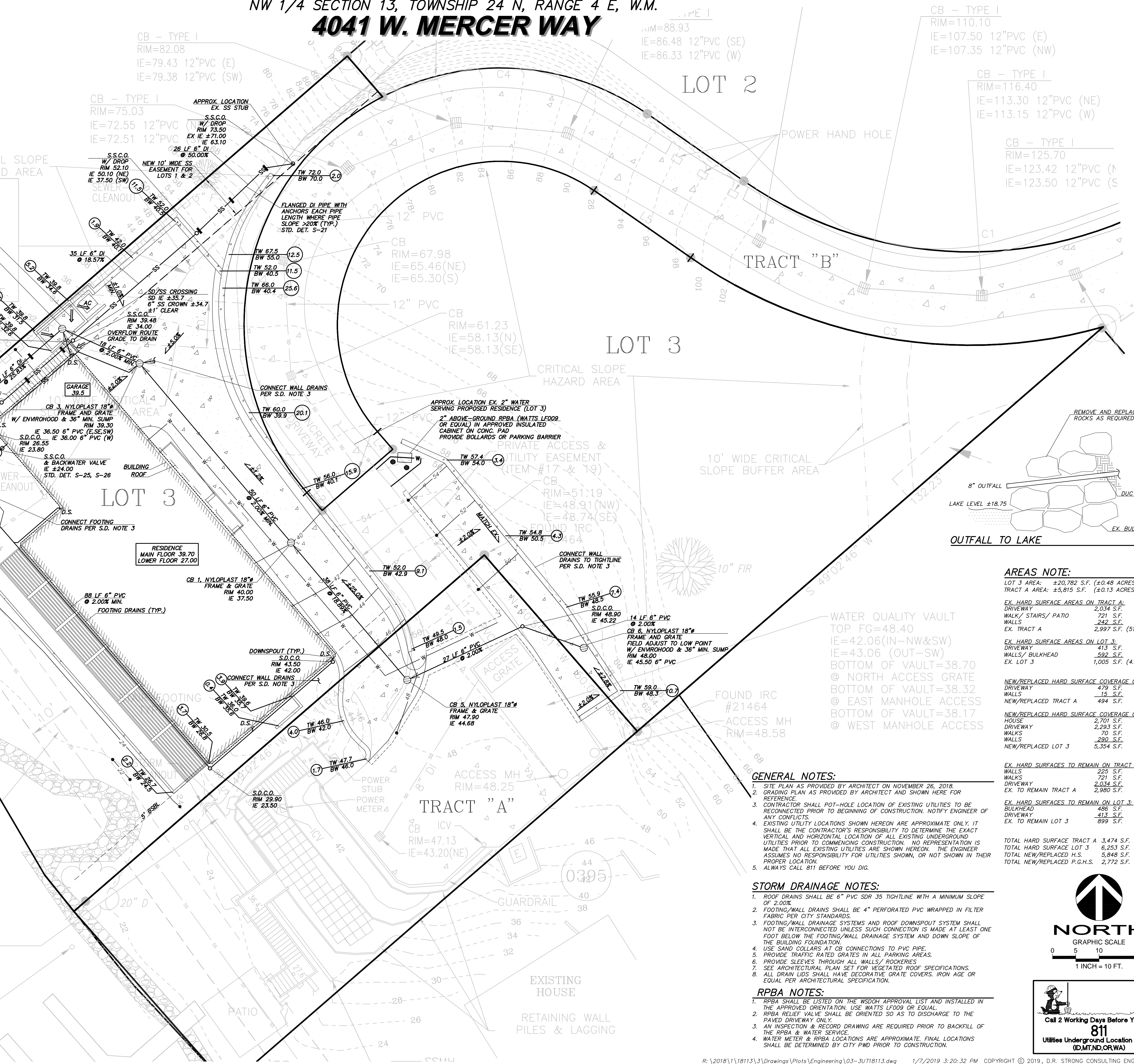
DAVID & JAYMEE LUNDIN
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SEATTLE WA 98112



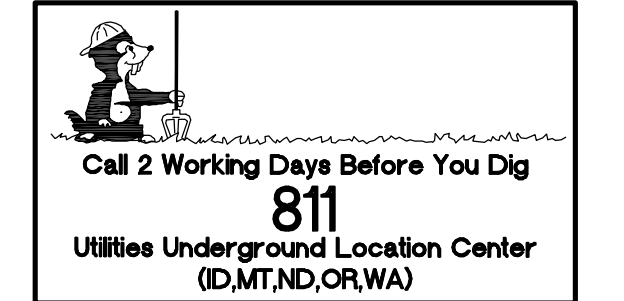
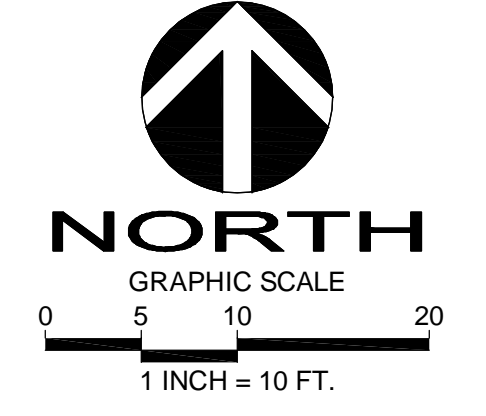
NOTE:
THE SEWER WAS INSTALLED AFTER THE RETAINING WALL, SO THE SEWER LINE WOULD BE ON THE NORTHERN SIDE OF THE WALL. FOR EXACT LOCATION THE INSTALLER MAY HAVE TO BE CONTACTED.
THE SEWER CLEANOUTS SHOWN ARE CAPPED +/- 1.0' ABOVE FINISH GRADE.

10' WIDE PRIVATE SANITARY SEWER EASEMENT (ITEM #17)
6' WOOD FENCE
2.5' MIN. TO FOUNDATION
4 LF. TRENCH DRAIN ACO KLASSIKDRAIN K100 @ 0.50%
CONNECT TO CB 1 GRATE 39.40 (MATCH PG) IE 38.80
10 LF 6" DI @ 2.00%
SD/SS CROSSING SD IE ±22.6
6" SS CROWN ±20.6 ±2' CLEAR
CB 1, NYLOPLAST 18" SOLID LOCKING LID RIM 25.20 IE 21.80 6" PVC (N,SE) IE 20.27 6" PVC (SW)
FLANGED DI PIPE BETWEEN CB 2 AND OUTFALL TO LAKE. ANCHOR EACH PIPE LENGTH WHERE PIPE SLOPE >20% (TYP.)
CONNECT TO EX SS IE ±15.06 PER STD. DET. S-17, S-18
NEW 6" Ø OUTFALL IE 10.25 SEE DETAIL THIS SHEET
APPROX. LOCATION EX. SS STUB TO BE ABANDONED/REMOVED PER STD. DET. S-22A

ROCK RETAINING WALL
ORDINARY HIGH WATER LINE
WASHINGTON LAKE
APPROXIMATE SEWER LINE LOCATION
RETAINING WALL ECOLOGY BLOCK BEHIND WOOD FACE FRONT
PROTECTION POST FOR BOATING APPROACH INTO BOAT STALL



AREAS NOTE:
WATER QUALITY VAULT
TOP FG=48.40
IE=42.06 (IN-NW&SW)
IE=43.06 (OUT-SW)
BOTTOM OF VAULT=38.70
@ NORTH ACCESS GRATE
BOTTOM OF VAULT=38.32
@ EAST MANHOLE ACCESS
BOTTOM OF VAULT=38.17
@ WEST MANHOLE ACCESS



DRAFTED BY: DLR
DESIGNED BY: WJS
PROJECT ENGINEER: WJS
DATE: 1.8.19
PROJECT NO.: 18113
DRAWING: C3
SHEET: 3 OF 5

NW 1/4 SECTION 13, TOWNSHIP 24 N, RANGE 4 E, W.M.
4041 W. MERCER WAY



4041 W. MERCER WAY
LUNDIN RESIDENCE

NOTES & DETAILS

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 SEATTLE WA 98112



APR	
REVISION	
DATE	

DRAFTED BY: **DLR**
 DESIGNED BY: **WJS**
 PROJECT ENGINEER: **WJS**
 DATE: **1.8.19**
 PROJECT NO.: **18113**

DRAWING: **C4**
 SHEET: **4** OF **5**

NYLOPLAST ENVIROHOOD SPECIFICATION

SCOPE
 This specification describes the Envirohood for use in stormwater conveyance systems.

REQUIREMENTS

- All hoods shall be constructed of polyethylene.
- The size and position of the hood shall be determined by the outlet pipe size as per manufacturer's recommendation.
- The bottom of the hood shall extend downward a minimum distance of 6" (15 cm) for pipes < 12" (30 cm).
- Installation hardware and instructions shall be provided by manufacturer.
- Installation shall be in accordance with Nyloplast installation procedures and those issues by local building/construction regulations.

STRUCTURE TYPE	OUTLET COVERED	PART NUMBER*	GENERAL DIMENSIONS in. (cm)			
			A	B	C	D
48" (120 cm) Round Concrete	up to 18" (45 cm)	5818AGR	30.2 (75)	14.9 (35)	17.2 (45)	20.5 (50)
48"-54" (120-135 cm) Round Concrete	up to 24" (60 cm)	5824AGR	41.7 (105)	18.0 (45)	20.9 (70)	26.9 (70)
54"-60" (135-150 cm) Round Concrete	up to 30" (75 cm)	5830AGR	48.7 (120)	20.5 (50)	30.5 (75)	33.1 (80)
Flat Concrete	up to 18" (45 cm)	5818AGF	30.2 (75)	15.8 (35)	17.2 (45)	20.4 (50)
Flat Concrete	up to 24" (60 cm)	5824AGF	41.8 (105)	15.3 (40)	20.9 (70)	27.1 (70)
Flat Concrete	up to 30" (75 cm)	5830AGF	48.8 (120)	18.3 (45)	30.5 (75)	34.0 (85)
24" (60 cm) Nyloplast	up to 12" (30 cm)	5818AGD12	19.4 (50)	9.8 (25)	12.3 (30)	13.8 (35)
24" (60 cm) Nyloplast	up to 15" (40 cm)	5824AGD15	26.5 (65)	12.8 (30)	14.5 (35)	20.0 (50)
30" (75 cm) Nyloplast	up to 18" (45 cm)	5830AGD18	32.8 (85)	13.4 (40)	18.7 (45)	20.0 (50)

*Includes installation hardware

For more information on Envirohood and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

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 B93 10553 07/12

Advanced Drainage Systems, Inc.
 4640 Treuman Blvd., Hilliard, OH 43026
 1-800-821-6710 www.ads-pipe.com

2808AG_X 8" CUSTOM DRAIN BASIN

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
STANDARD	LIGHT DUTY	0889CS	7001-110-184
SLIDING COVER	LIGHT DUTY	0890CS	7001-110-186
BRONZE	N/A	0892CB	7001-110-196
STONE	N/A	0893CS	7001-110-187
DROP-IN GRATE	LIGHT DUTY	0881B	7001-110-019

(1) DUCTILE IRON GRATE
 (2) VARIABLE INVERT HEIGHT
 (3) VARIABLE OVERALL HEIGHT

(3,4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
 4" - 8" FOR CORRUGATED HDPE (ADS N-12 HANCOCK DUAL WALL, ADS HANCOCK SINGLE WALL), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

2810AG_X 10" CUSTOM DRAIN BASIN

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
STANDARD	LIGHT DUTY	1099CS	7001-110-189
SLIDING COVER	LIGHT DUTY	1099CS	7001-110-190
BRONZE	N/A	1099CB	7001-110-200
STONE	N/A	1099CS	7001-110-200
DROP-IN GRATE	LIGHT DUTY	1081B	7001-110-020

(1) DUCTILE IRON GRATE
 (2) VARIABLE INVERT HEIGHT
 (3) VARIABLE OVERALL HEIGHT

(3,4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
 4" - 10" FOR CORRUGATED HDPE (ADS N-12 HANCOCK DUAL WALL, ADS HANCOCK SINGLE WALL), PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

1 - GRATES/SLIDING COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
 2 - CUSTOM DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-085
 3 - DRAINAGE CONNECTION SUB JOINT THICKNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12 HANCOCK DUAL WALL) & SDR 35 PVC.
 4 - STANDARD DRAIN BASIN HAS FIXED ADAPTER LOCATIONS OF 0" & 180°. CUSTOM DRAIN BASIN ADAPTERS CAN BE LOCATED ON ANY ANGLE UP TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
 5 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.

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DRAWN BY: AWA	MATERIAL: PVC	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-3443 FAX (770) 932-3490 www.nyloplast-usa.com
DATE: 8-11-16	PROJECT NO./NAME:	Nyloplast
REVISED BY: MMH	DATE: 05-11-16	TITLE: 8 IN & 10 IN DRAIN BASIN DESIGN DETAILS
DWG SIZE: A	SCALE: 1:40	SHEET: 1 OF 1
DWG NO.: 7001-110-285	REV: D	

NYLOPLAST DRAIN BASIN WITH PEDESTRIAN GRATE

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.
 (3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)
 (4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 30" FOR CORRUGATED HDPE (ADS N-12 HANCOCK DUAL WALL, ADS HANCOCK SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC.
 (5) ADAPTERS CAN BE ADAPTED UP TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS. SEE DRAWING NO. 7001-110-012.
 (6) PEDESTRIAN GRATES SHALL MEET 750 LB LOAD RATING. SEE DRAWING NO. 7001-110-144 FOR H-200 TRAFFIC LOAD GUIDELINES.

MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (8" MIN. ON 12" - 24", 10" MIN. ON 30")

12" MIN WIDTH GUIDELINE
 6" MIN THICKNESS GUIDELINE

(6) MEDIUM DUTY TRAFFIC LOADS. CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.

WATER TIGHT JOINT (CORRUGATED HOPE SHOWN)

4" MIN ON 12" - 24"
 6" MIN ON 30"

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D3212. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D3212.

1 - 12" - 30" PEDESTRIAN GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-085.
 4 - DRAINAGE CONNECTION SUB JOINT THICKNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12 HANCOCK DUAL WALL, N-12 HP, & PVC SEWER (EX: SDR 35)).
 5 - ADAPTERS CAN BE ADAPTED UP TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS. SEE DRAWING NO. 7001-110-012.
 6 - 12" - 30" PEDESTRIAN GRATES SHALL MEET 750 LB LOAD RATING.
 30" PEDESTRIAN GRATE SHALL MEET 750 LB LOAD RATING. SEE DRAWING NO. 7001-110-144 FOR H-200 TRAFFIC LOAD GUIDELINES.

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DATE: 4-30-07	PROJECT NO./NAME:	Nyloplast
REVISED BY: MMH	DATE: 05-11-16	TITLE: DRAIN BASIN WITH PEDESTRIAN GRATE
DWG SIZE: A	SCALE: 1:40	SHEET: 1 OF 1
DWG NO.: 7001-110-285	REV: D	

DRAWN BY: **FERN LIDDELL**

NOTE:
 ALL DRAIN LIDS SHALL HAVE DECORATIVE GRATE COVERS. IRON AGE OR EQUAL PER ARCHITECTURAL SPECIFICATION.

PLAN VIEW
FRAME AND VANED GRATE

TOP OF RISER EXTENSION
 12" TO 18" EXTENSION - AS NEEDED
 4" (IN) ON BODY SIZE OF 18" TO 24" (IN)
 6" (IN) ON BODY SIZE OF 30" (IN)

INTEGRATED DUCTILE IRON BASE PLATE TO MATCH BASIN O.D. (SEE NOTE 6)
 FIELD GLUE JOINT

RISER EXTENSION

SEE CONTRACT FOR OUTLET TYPE, SIZE AND DIMENSION (TYP.)
 BODY BASIN (SEE NOTE 1)
 SLUMP DEPTH VARIES - SEE CONTRACT

18" - 24" AND 30" BASINS AVAILABLE

BASIN BODY

INTEGRATED DUCTILE IRON BASE PLATE TO MATCH BASIN O.D. (SEE NOTE 6)
 MINIMUM PIPE BURIAL DEPTH - 2' - 0" INVERT ACCORDING TO THE CONTRACT (SEE NOTE 2)
 4" MIN.

GRAVEL BACKFILL FOR PIPE ZONE BEDDING

ELEVATION VIEW

RISER SECTIONS AND/OR BASINS CAN BE CUT AT A SLOPE OF 2% WITHOUT AFFECTING THE INSTALLATION OF THE GRATE FRAME

NOTES

- Drain basin to be custom manufactured according to plan details. Risers are needed for basins over 8" (in) due to shipping restrictions. The maximum depth from finished grade to the lowest invert shall be 8' (ft).
- Drainage connections shall utilize flexible elastomeric seals conforming to **ASTM F477** and shall meet the requirements of **ASTM D3212**.
- Risers can be trimmed down to 3" (in) extension without interfering with the installation of the frame.
- These structures can be used for Type 1, Type 1L, and Type 2 structures. usage for the Type 2 structures shall be limited to pipe size use only.
- Basins shall be manufactured from PVC pipe stock meeting the requirements of **ASTM D1784**, cell classification **12454**.
- Ductile iron castings for PVC catch basins shall conform to the requirements of **ASTM A536, grade 70-50-05**, and shall meet the proof load testing requirements of **AASHTO M 306**.
- Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.

APPROVED FOR PUBLICATION
 Expired: 5/1
 Jan 26 2017 10:30 AM

STATE DESIGN ENGINEER
 Washington State Department of Transportation

Julie Heilman
 Heilman, Julie
 Jan 25 2017 2:57 PM
CATCH BASIN - PVC
STANDARD PLAN B-10-70-00
 SHEET 1 OF 1 SHEET

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 Expired: 5/1
 Jan 26 2017 10:30 AM

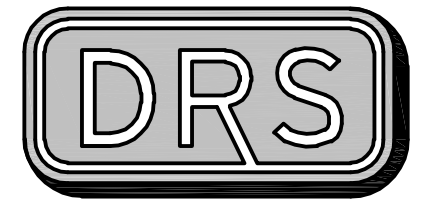
STATE DESIGN ENGINEER
 Washington State Department of Transportation

CAP, AND WHERE CLEANOUT IS IN PAVEMENT; IRON RING AND COVER PER IFCD #247 OR EQUIVALENT
 45° BEND
 PERMANENT CAP OR CONNECT PIPE
 45° WYE
 TEE, CROSS OR 45° WYE AT BENDS

STORM DRAIN CLEAN-OUT

NTS

NW 1/4 SECTION 13, TOWNSHIP 24 N, RANGE 4 E, W.M.
4041 W. MERCER WAY



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 MERCER ISLAND, WA 98040

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 SEATTLE WA 98112

CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
SIDE SEWER CONNECTION AND STUB
 6-5-2009 NO SCALE **S-17**

REV DATE _____ APPROVED _____

CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
HOUSE SEWER CONNECTION
 6-5-2009 NO SCALE **S-18**

REV DATE _____ APPROVED _____

CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
CLEAN OUT DETAIL
 6-5-2009 NO SCALE **S-19**

REV DATE _____ APPROVED _____

CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
PIPE ANCHOR DETAIL
 6-5-2009 NO SCALE **S-21**

REV DATE _____ APPROVED _____

DISCONNECTION
 WHEN ABANDONING A SIDE SEWER IT SHALL BE DISCONNECTED AT THE MAIN PRIOR TO REMOVAL OF BUILDING FOUNDATIONS. THE CONTRACTOR SHALL PLUG THE CONNECTION AT THE MAIN WITH A MECHANICAL PLUG AND NON-SHRINK GROUT. DISCONNECTIONS SHALL BE PERFORMED IN THE PRESENCE OF THE CITY'S UTILITY INSPECTOR. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT DRAWING DEPICTING THE DISCONNECTED SIDE SEWER UPON COMPLETION OF THE WORK.

RECONNECTION
 WHEN RECONNECTING TO AN EXISTING SIDE SEWER, THE POINT OF RECONNECTION WILL BE DETERMINED BASED ON THE MAGNITUDE OF THE CONSTRUCTION ON THE PROPERTY.

- PARTIAL INTERIOR REMODEL AND/OR BUILDING ADDITION WITH NO ADDITIONAL PLUMBING FIXTURES - NO SIDE SEWER REPLACEMENT REQUIRED UNLESS A KNOWN PROBLEM EXISTS IN THE SIDE SEWER.
- PARTIAL INTERIOR REMODEL AND/OR BUILDING ADDITION WITH ADDITIONAL PLUMBING FIXTURES- ASSESS CONDITION OF EXISTING SIDE SEWER THROUGH VIDEO INSPECTION FROM BUILDING TO PROPERTY LINE AND REPLACE AS NEEDED.
- COMPLETE INTERIOR REMODEL - ASSESS CONDITION OF EXISTING SIDE SEWER THROUGH VIDEO INSPECTION FROM BUILDING TO SEWER MAIN AND REPLACE AS NEEDED. IF EXISTING SIDE SEWER IS ASBESTOS CEMENT OR CONCRETE, SIDE SEWER SHALL BE REPLACED FROM BUILDING TO PROPERTY LINE.
- COMPLETE INTERIOR REMODEL AND BUILDING ADDITION - NEW SIDE SEWER FROM BUILDING AT LEAST TO PROPERTY LINE.
- CONSTRUCTION OF A NEW BUILDING - NEW SIDE SEWER FROM BUILDING AT LEAST TO MAIN.*

BACK WATER VALVE INSTALLATION PER CITY ENGINEER, IF SCENARIO 2, 3, 4, OR 5 IS DIRECTLY ATTACHED TO THE LAKE LINE OR THE ELEVATION OF THE LOWEST DRAIN IN THE RESIDENCE IS LOWER THAN THE RIM ELEVATION OF THE UPSTREAM SEWER MANHOLE ON THE MAIN.

VIDEO INSPECTION OF THE EXISTING SIDE SEWER, BETWEEN THE PROPERTY LINE AND THE SEWER MAIN SHALL BE PERFORMED FOR SCENARIO NUMBER 4.

PROVIDE A COPY OF THE VIDEO DOCUMENTATION (VIDEO AND HARD COPY REPORT) TO THE CITY ENGINEER.

REPLACEMENT OR REPAIR OF THAT PORTION OF THE SIDE SEWER BETWEEN THE PROPERTY LINE AND THE SEWER MAIN, WILL BE DETERMINED BY THE CITY ENGINEER, BASED ON THE VIDEO INSPECTION.

*IF THE EXISTING SIDE SEWER IS PVC AND IS LESS THAN TEN YEARS OLD, THE SIDE SEWER DOES NOT HAVE TO BE REPLACED IF A VIDEO INSPECTION AND HYDROSTATIC PRESSURE TEST CONFIRMS THAT THE SIDE SEWER IS IN PROPER WORKING CONDITION. THESE TESTS SHALL BE PERFORMED AFTER ALL HEAVY EQUIPMENT THAT COULD DAMAGE THE SIDE SEWER IS OFF OF THE SITE.

CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
COMMERCIAL/MULTI FAMILY
SIDE SEWER
DISCONNECTION & RECONNECTION
 6-5-2009 NO SCALE **S-22A**

REV DATE _____ APPROVED _____

PIPE SIZE	MATERIAL	CAP	ENCLOSURE	COMMENTS
6"	PVC	SIDU MECHANICAL SEWER PLUG	CONC. METER BOX, FOGTITE 1-D	INSTALLATION BELOW HYDRAULIC GRADIENT
6"	PVC	PVC CAP W/O GASKET	CONC. METER BOX, FOGTITE 1-D	INSTALLATION ABOVE HYDRAULIC GRADIENT
6"	DIP	MECHANICAL JOINT CAP	CONC. METER BOX, FOGTITE 1-D	INSTALLATION ABOVE HYDRAULIC GRADIENT
8"	PVC	PVC CAP W/O GASKET	CONC. METER BOX, FOGTITE NO. 2 (CONC. LID W/ ALUM. INS. PLATE)	INSTALLATION ABOVE HYDRAULIC GRADIENT
8"	DIP	MECHANICAL JOINT CAP	CONC. METER BOX, FOGTITE NO. 2 (CONC. LID W/ ALUM. INS. PLATE)	INSTALLATION ABOVE HYDRAULIC GRADIENT

CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
BACK WATER VALVE ASSEMBLY
FOR JOINT USE SIDE SEWER
(4" OR 6" DIAMETER)
 6-5-2009 NO SCALE **S-25**

REV DATE _____ APPROVED _____

CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
BACK WATER VALVE ASSEMBLY
FOR JOINT USE SIDE SEWER
(4" OR 6" DIAMETER)
 6-5-2009 NO SCALE **S-26**

REV DATE _____ APPROVED _____

SIDE SEWER NOTES:

- FOUR-INCH (4") PIPE MUST BE LAID AT A MINIMUM 2% GRADE. SIX-INCH (6") PIPE MUST BE LAID AT A MINIMUM 1.2% GRADE.
- SIDE SEWERS MUST NOT BE CLOSER THAN 30" TO ANY FOUNDATION WALL OR OUTER LINE OF ANY FOOTINGS, PILING, OR BUILDING SUPPORTS. A CLEAN-OUT MUST BE INSTALLED AT THE CONNECTION, AND MUST BE 36" FROM THE FOUNDATION.
- MINIMUM COVER MUST BE 42" IN THE PUBLIC RIGHT-OF-WAY, 30" IN PRIVATE ROADWAYS AND UNDER DITCHES, AND 18" ON PRIVATE PROPERTY.
- SEWER MAINS MAY BE CORED OR A "T" INSTALLED IN THE MAIN LINE WHERE NO SEWER STUB EXISTS.
- SIDE SEWERS WHEN USING OPEN CUT CONSTRUCTION METHODS MUST BE BEDDED WITH IMPORTED MATERIAL TO 4" BELOW AND 6" ABOVE THE INSTALLED PIPE. THE BROAD, "BELL" ENDS OF PIPE MUST BE LAID UPHILL.
- IMPORTED BACKFILL MATERIAL WILL BE REQUIRED IN ALL PAVED AREAS AND MUST BE COMPACTED TO 95% OF MAXIMUM DENSITY IN 1 FT. LIFTS. IN PUBLIC RIGHT OF WAY, ONLY SELECT MATERIAL (5/8" MINUS C.R.) WILL BE ALLOWED FOR BEDDING AND BACKFILL.
- PARALLEL SEWER AND WATER SERVICE LINES MUST BE AT LEAST 4 FEET APART WHEN LAID HORIZONTALLY, AND AT LEAST 2 FEET APART WHEN LAID VERTICALLY, WITH THE SEWER THE DEEPER OF THE TWO LINES. IF THE LINES MUST CROSS, THEY MUST CROSS AT 90 DEGREES TO ONE ANOTHER AND HAVE AT LEAST 2 FEET OF VERTICAL CLEARANCE.
- ALL CHANGES IN DIRECTION MUST BE MADE WITH 1/8 BENDS (45 DEGREES), 1/16 BENDS (22 1/2 DEGREES), OR 7/8 BRANCHES WITH THE STRAIGHT-THROUGH OPENING PLUGGED FOR CLEAN-OUT. NO MORE THAN TWO BENDS ARE PERMITTED BETWEEN CLEAN-OUTS, WHICH MUST BE PLACED AT LEAST EVERY 100 FEET. CLEAN-OUTS MUST EXTEND TO WITHIN 12" OF THE FINISHED GRADE AND CAPPED WITH A WATER-TIGHT PLUG. CLEAN-OUTS IN PAVED AREAS, PATIOS, OR SIDEWALKS MUST HAVE CAST IRON FRAMES AND COVERS WITH LOCKING LIDS SET TO FINISHED PAVED GRADE.
- PIPE MATERIALS: ASTM 3034 SDR 35 PVC PIPE, FUSED SOLID WALL HOPE, SCHEDULE 40 ABS, DIP OR CIP (UP TO 8 FT. DEPTH), OVER 8 FT. DEPTH AND SLOPES MORE THAN 20% DIP, CIP, OR FUSED SOLID WALL HOPE ARE REQUIRED.
- BEDDING MATERIAL FOR OPEN CUT CONSTRUCTION MUST BE PEA GRAVEL, SAND, CONTROL DENSITY FILL (CDF), OR 5/8" MINUS C.R.
- SELECT BACKFILL MATERIAL SHALL BE 5/8" MINUS C.R. OR CONTROL DENSITY FILL (CDF).
- IMPORTED BACKFILL MATERIAL SHALL BE BANK RUN GRAVEL OR PIT RUN GRAVEL FROM AN APPROVED SUPPLIER MEETING APWA/WSDOT GRADATION SPECIFICATIONS. NOT ALLOWED IN RIGHT-OF-WAY.
- RUBBER GASKETS MUST BE USED WHEN APPROPRIATE.
- RIGID COUPLINGS MUST BE USED FOR CONNECTIONS TO EXISTING STUBS IN RIGHT-OF-WAY.
- A STAINLESS STEEL STRAP AND SADDLE (ROMAC) MUST BE USED FOR CORING.
- TESTING: THE RATE OF LEAKAGE MUST NOT EXCEED THE FOLLOWING AMOUNTS PER 100 FT. OF PIPE: 4" PIPE 1.6 GAL/HR 6" PIPE 2.4 GAL/HR
- INSPECTION IS REQUIRED PRIOR TO BACKFILLING. THE CITY REQUIRES AT LEAST 24 HOURS NOTICE PRIOR TO INSPECTIONS.



1-8-19

APR

REVISION

DATE

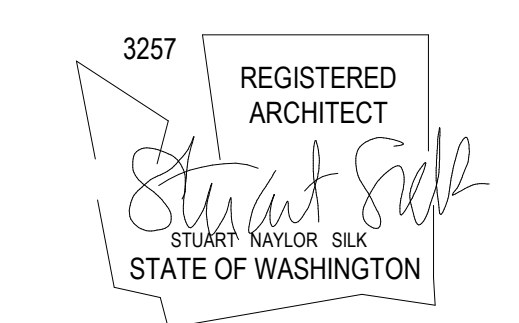
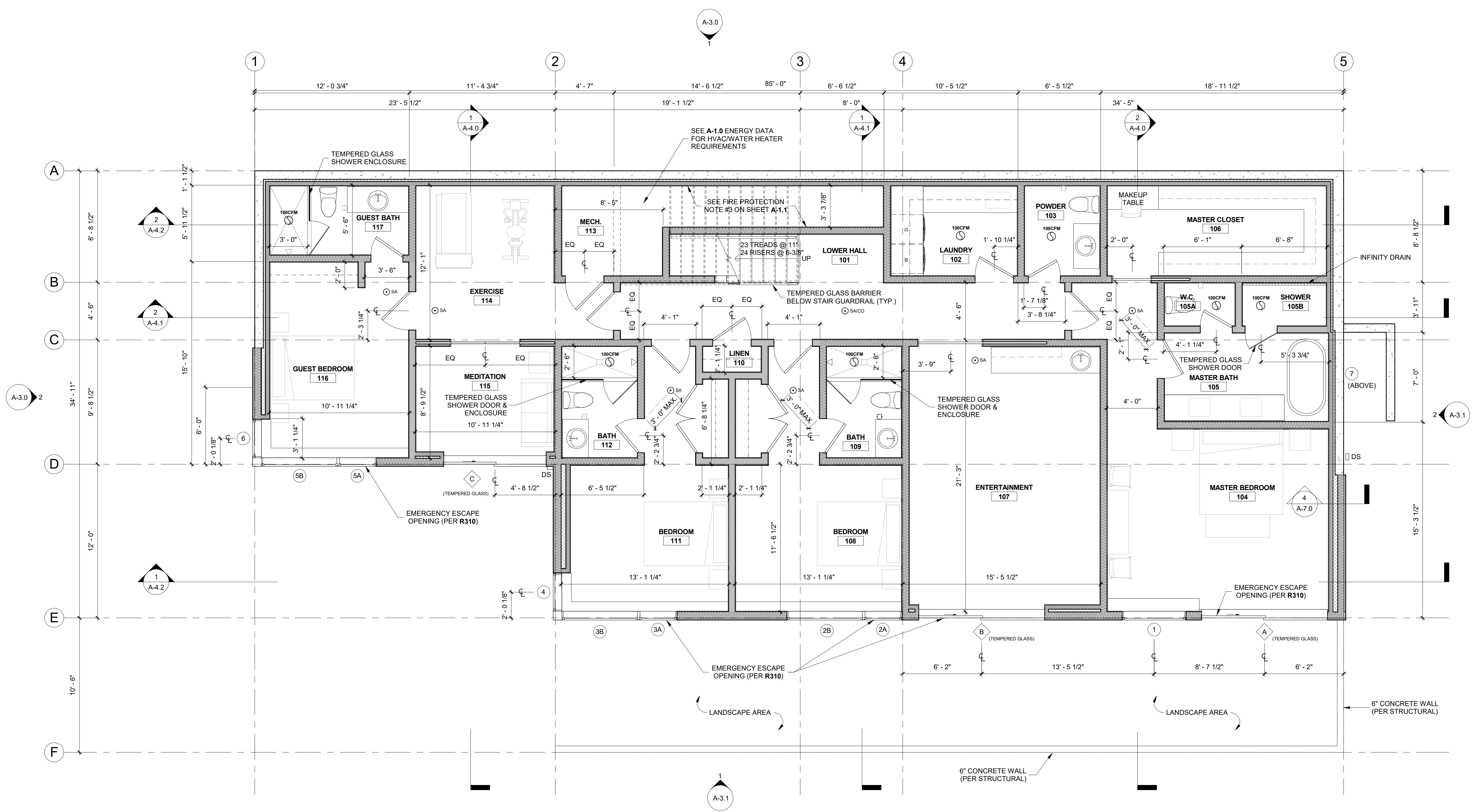
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 DESIGNED BY: WJS
 PROJECT ENGINEER: WJS
 DATE: 1.8.19
 PROJECT NO.: 18113

DRAWING: C5
 SHEET: 5 OF 5

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FLOOR PLAN LEGEND		
SYMBOL	DESCRIPTION	NOTES
⊙	EXHAUST FAN	- SEE MECHANICAL PLANS - EXHAUST VENTS MUST TERMINATE AT EXTERIOR OF STRUCTURE WITH CLEARANCES PER WAC M1506.2
⊙ SA	SMOKE ALARM	
⊙ SA/CO	SMOKE ALARM & CARBON MONOXIDE DETECTOR	
GENERAL PLAN NOTES		
1. ALL GRID LINES AND DIMENSIONS ARE TO FACE OF STUD/CONCRETE		
2. ALL EXTERIOR WALLS ARE 2x6 UNLESS OTHERWISE NOTED		



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DRAWN	CA, TES	
CHECKED	DM	
SHEET ISSUE DATE	01/08/2019	
DRAWING SETS		
REVISIONS		
#	DATE	DESCRIPTION

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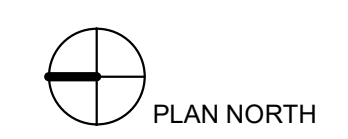
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PERMIT SET
LOWER FLOOR PLAN

A-2.1

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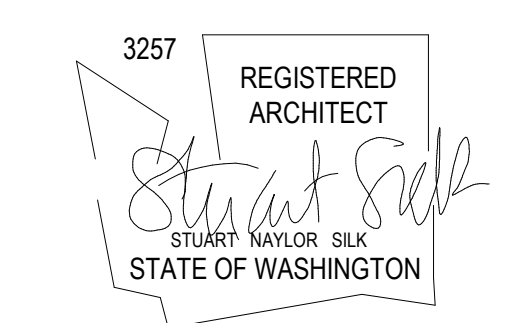
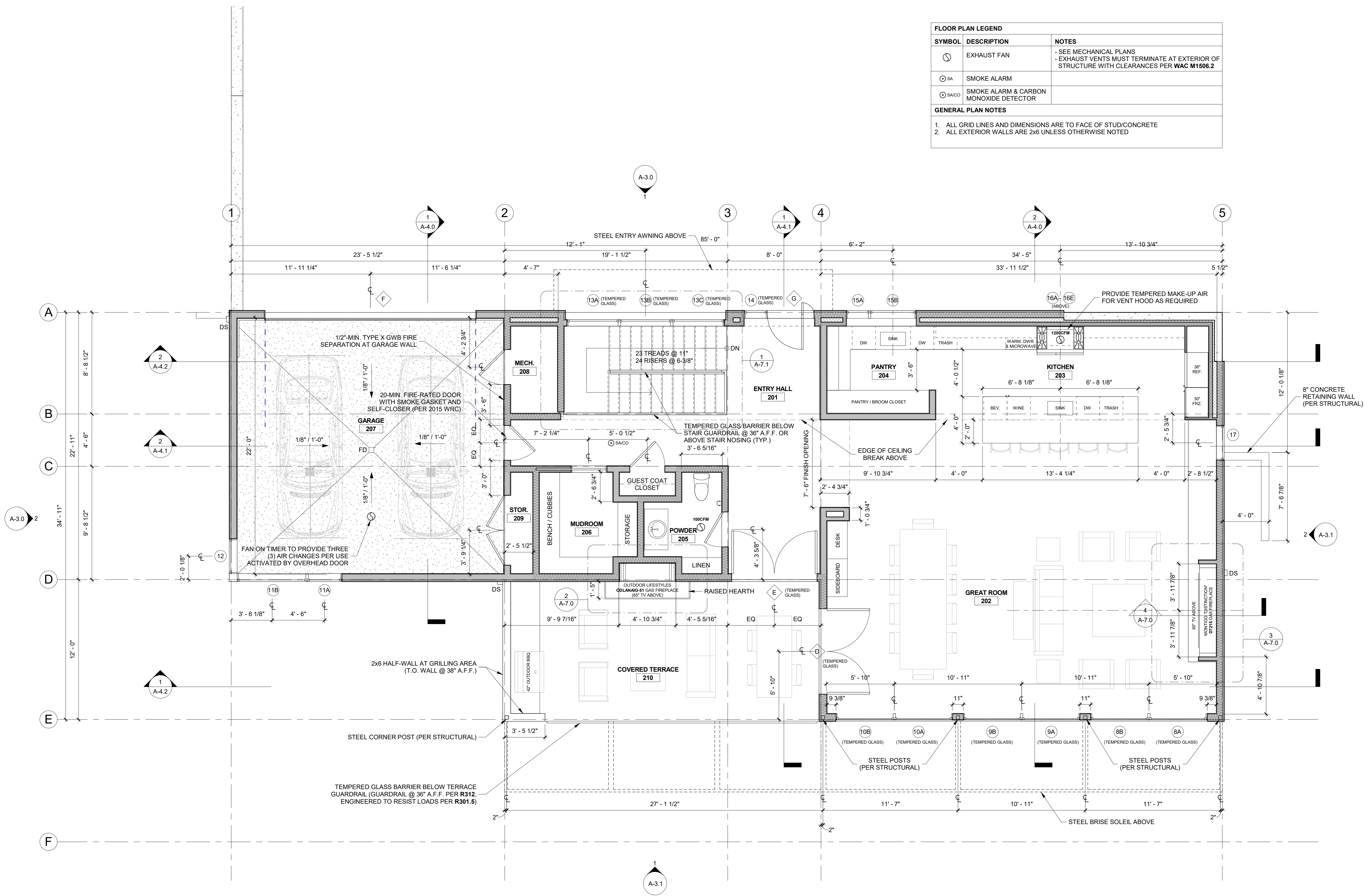
1 LOWER FLOOR PLAN
1/4" = 1'-0"



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FLOOR PLAN LEGEND		
SYMBOL	DESCRIPTION	NOTES
⊙	EXHAUST FAN	- SEE MECHANICAL PLANS - EXHAUST VENTS MUST TERMINATE AT EXTERIOR OF STRUCTURE WITH CLEARANCES PER WAC M1506.2
⊙ SA	SMOKE ALARM	
⊙ SA/CO	SMOKE ALARM & CARBON MONOXIDE DETECTOR	
GENERAL PLAN NOTES		
1. ALL GRID LINES AND DIMENSIONS ARE TO FACE OF STUD/CONCRETE		
2. ALL EXTERIOR WALLS ARE 2x6 UNLESS OTHERWISE NOTED		



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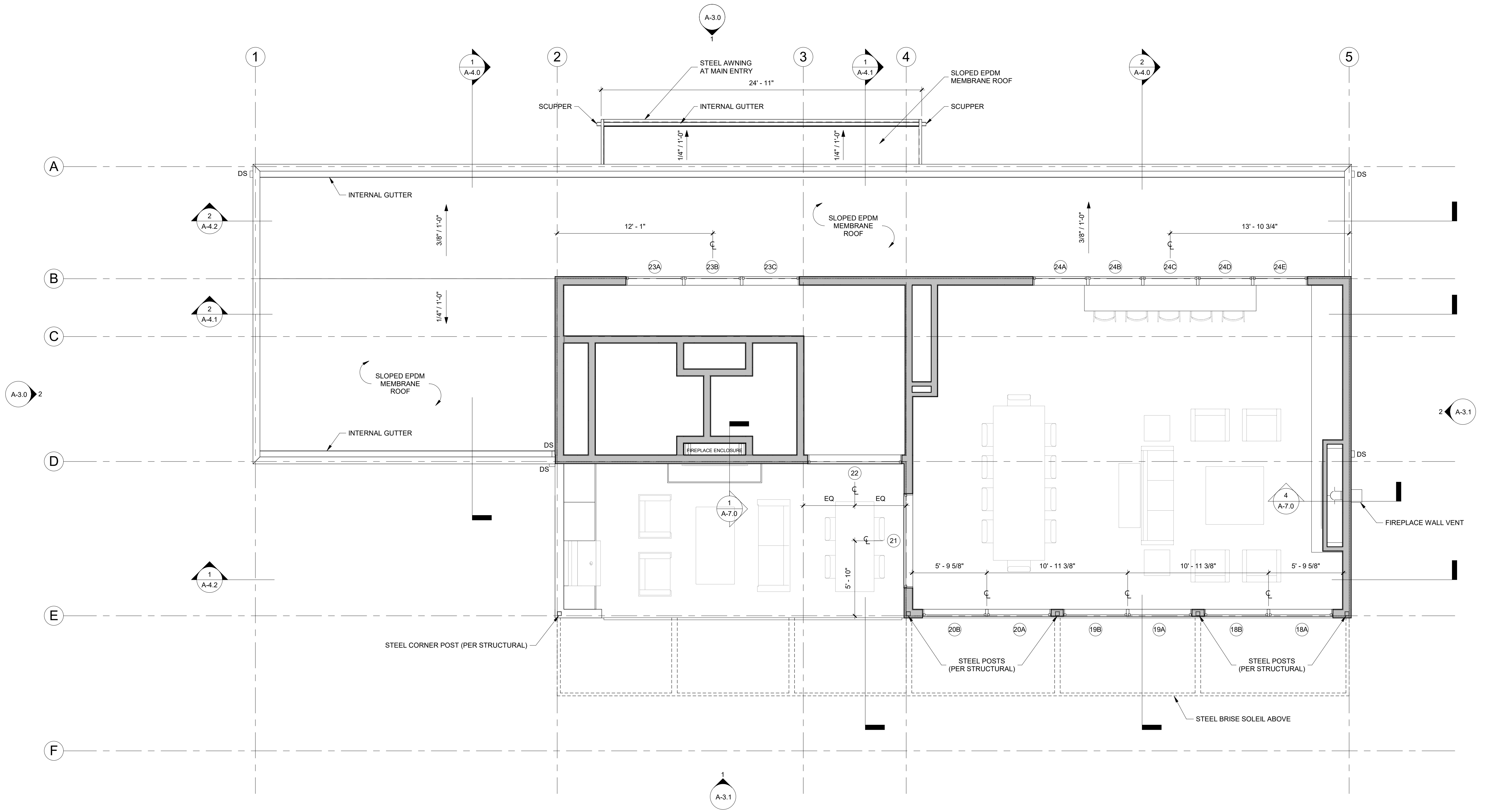
PERMIT SET
MAIN FLOOR PLAN

A-2.2

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



FLOOR PLAN LEGEND		
SYMBOL	DESCRIPTION	NOTES
⊙	EXHAUST FAN	- SEE MECHANICAL PLANS - EXHAUST VENTS MUST TERMINATE AT EXTERIOR OF STRUCTURE WITH CLEARANCES PER WAC M1506.2
⊙ SA	SMOKE ALARM	
⊙ SA/CO	SMOKE ALARM & CARBON MONOXIDE DETECTOR	
GENERAL PLAN NOTES		
1. ALL GRID LINES AND DIMENSIONS ARE TO FACE OF STUD/CONCRETE		
2. ALL EXTERIOR WALLS ARE 2x6 UNLESS OTHERWISE NOTED		

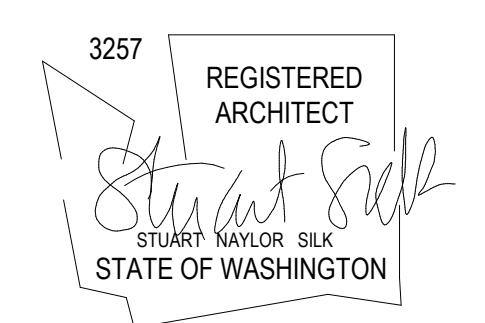


1 CLERESTORY PLAN
1/4" = 1'-0"



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PERMIT SET
CLERESTORY PLAN

A-2.3

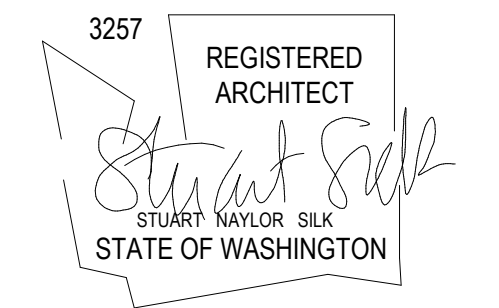
ROOF PLAN LEGEND		
SYMBOL	DESCRIPTION	REMARKS
DS	EXTERIOR DOWNSPOUT	(3" diameter, round, painted)
RS	ROOF SCUPPER	(Size, finish, detail callout T.B.D.)
OS	OVERFLOW SCUPPER	(Size, finish, detail callout T.B.D.)

ROOF PLAN NOTES		
1. Flood test all flat roofs for 24 hours prior to insulating. 2. Roofing Contractor to guarantee materials and workmanship for 10 years. 3. All roof penetration locations to be approved by Architect prior to rough in. No roof penetrations on the (front) side of roof. Minimize quantities of roof penetrations as much as possible. Combine vent stacks. 4. Contractor to field verify venting continuity and 1" minimum airspace above insulation. 5. Flat Roof Slope = 1/4" per Foot, Typical.		

ROOF VENTILATION NOTES		
1. Provide ventless roof framing and insulation at all flat roof planes: - Framing per structural drawings - R-21 batt insulation - R-21 closed-cell spray-foam insulation - Rooftop rigid insulation (sloped to drain - 1/4" slope per linear foot)		

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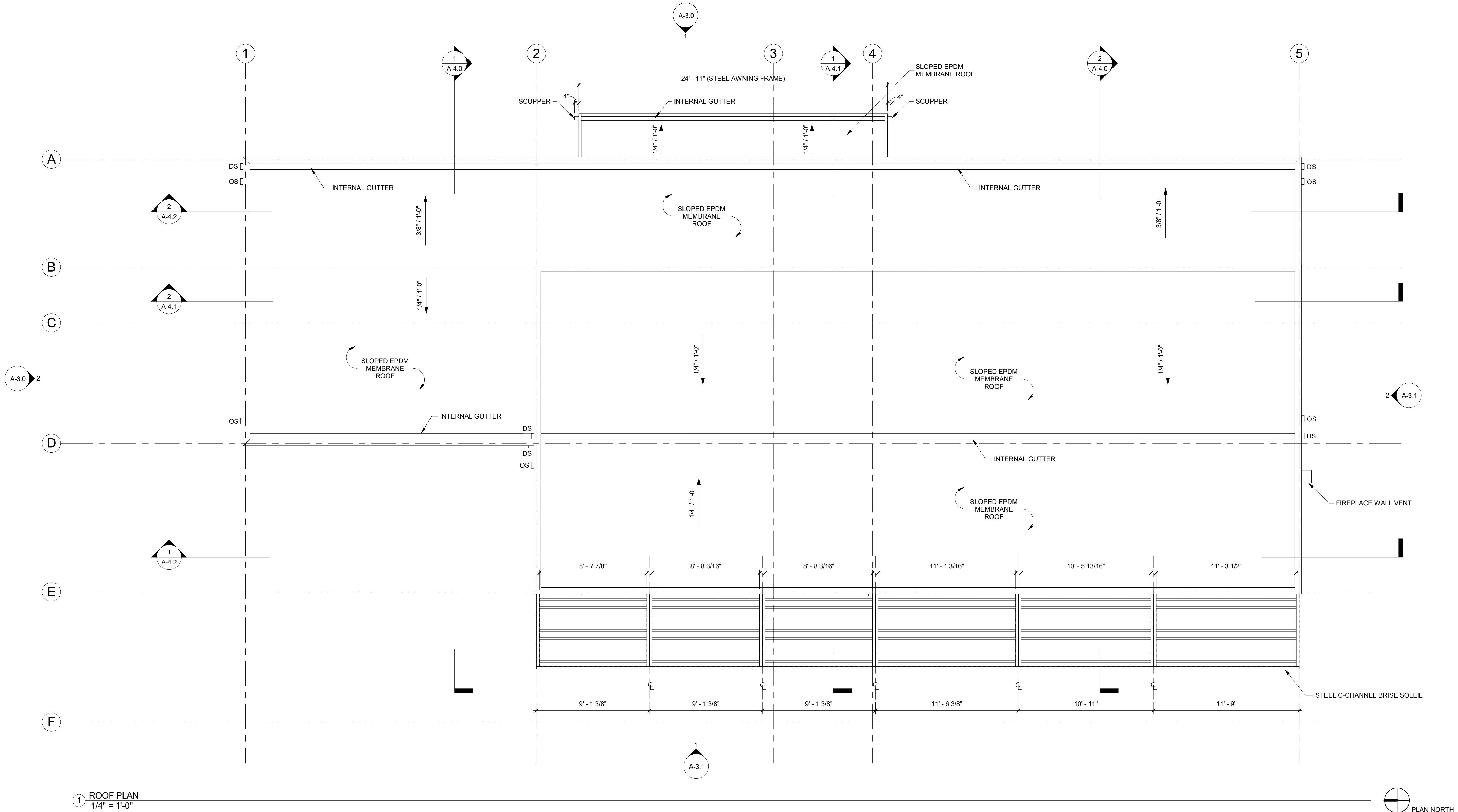
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PERMIT SET
ROOF PLAN

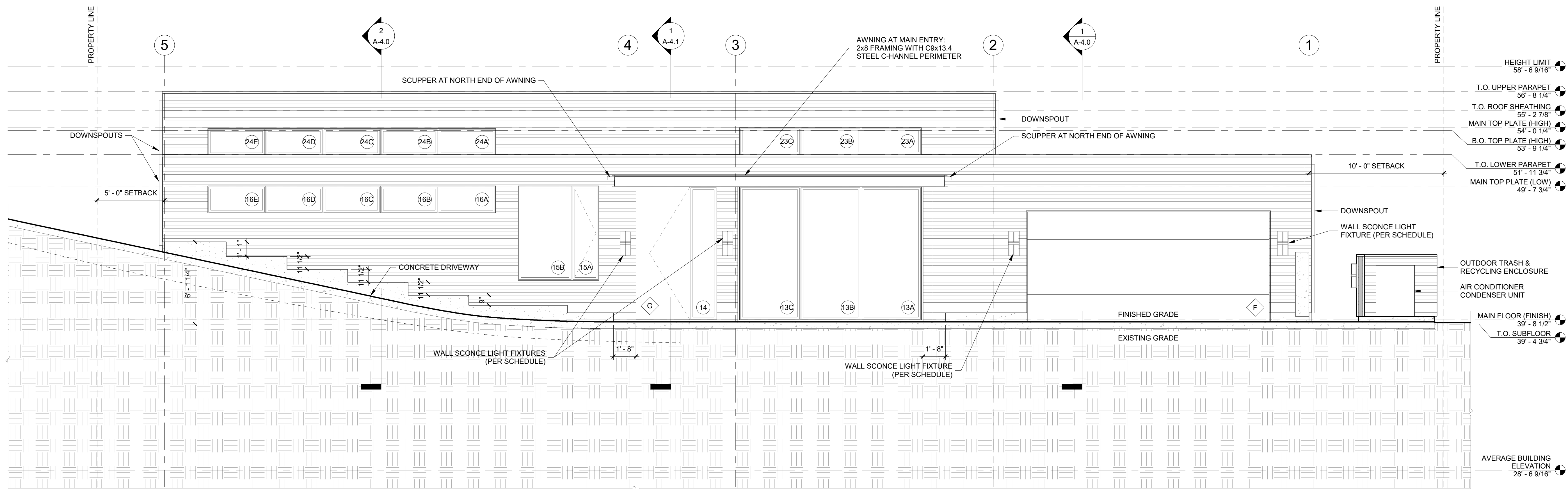
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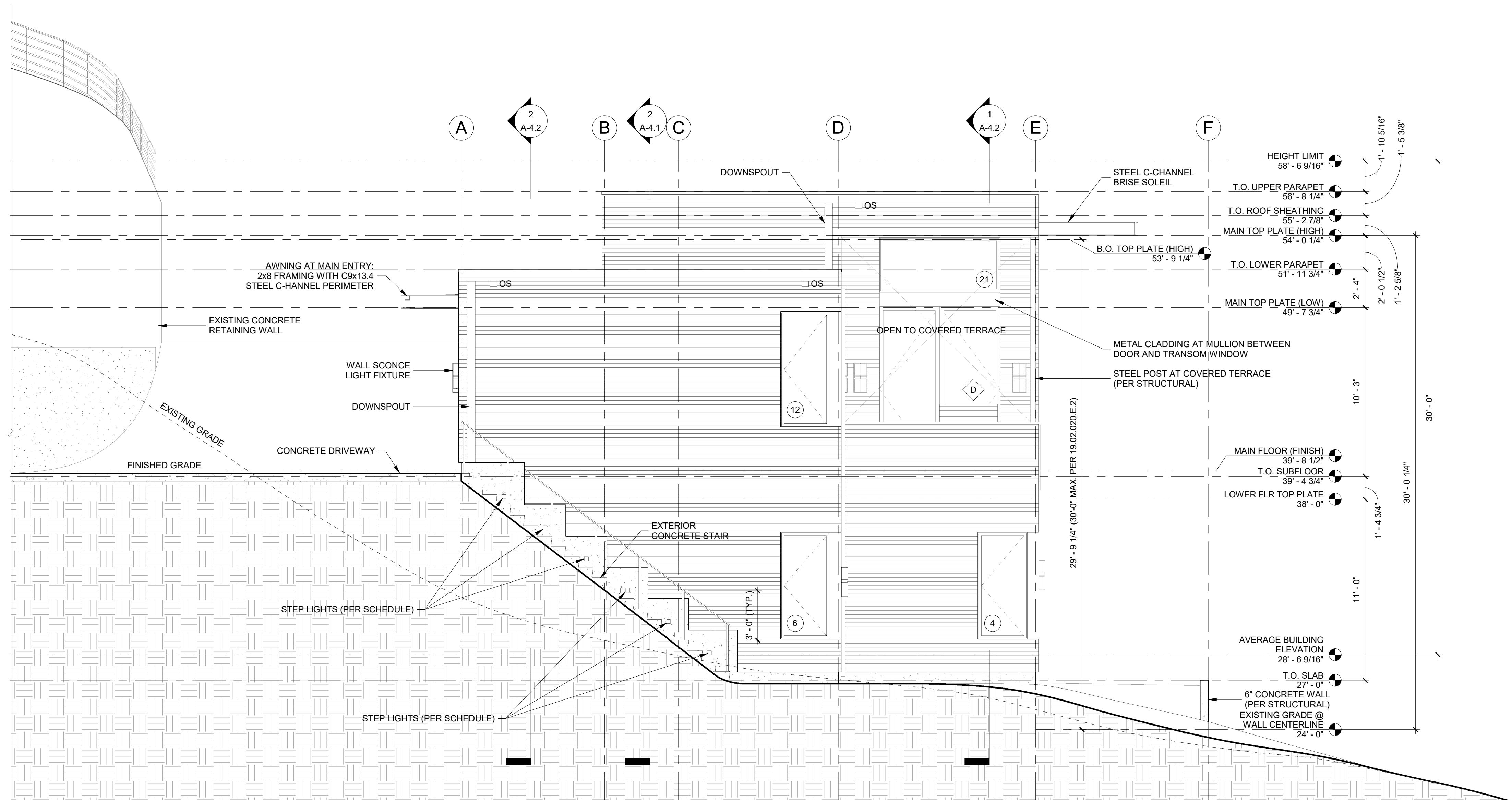


1 ROOF PLAN
1/4" = 1'-0"





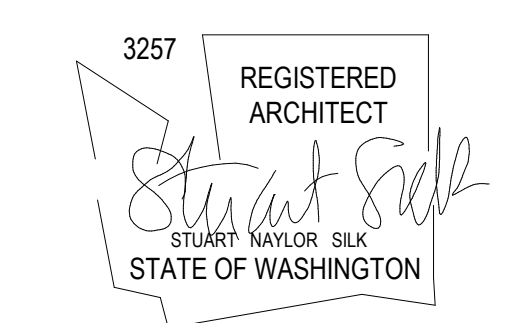
1 EAST ELEVATION
1/4" = 1'-0"



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

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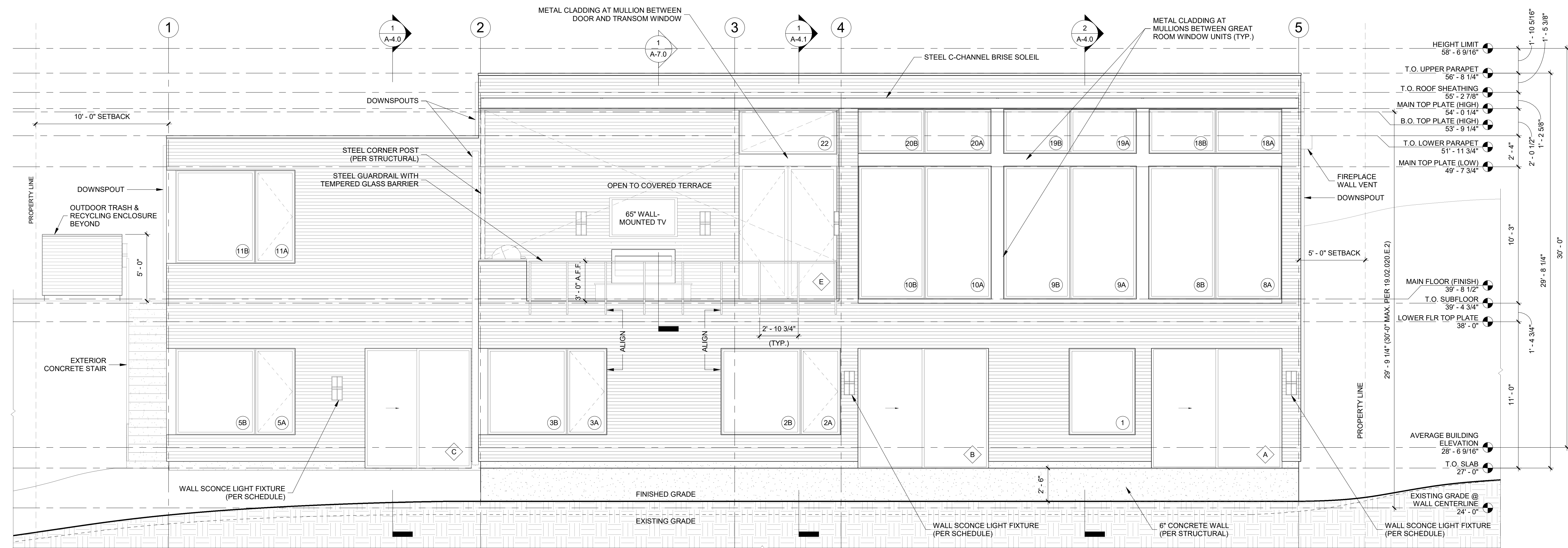
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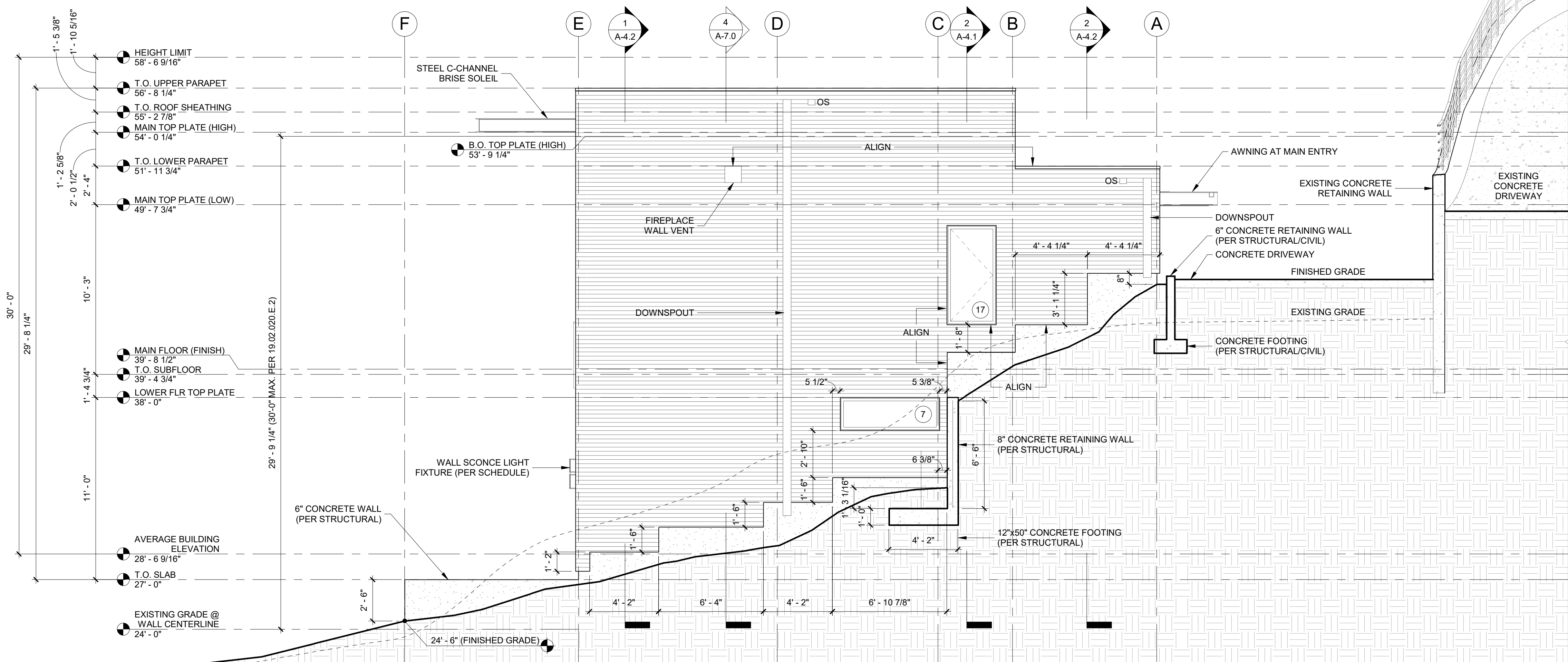
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Mercer Island, WA 98040

PERMIT SET
EXTERIOR ELEVATIONS

A-3.0



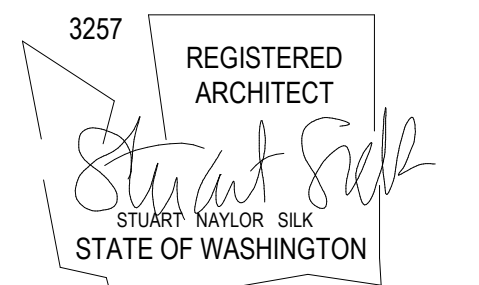
1 WEST ELEVATION
1/4" = 1'-0"



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

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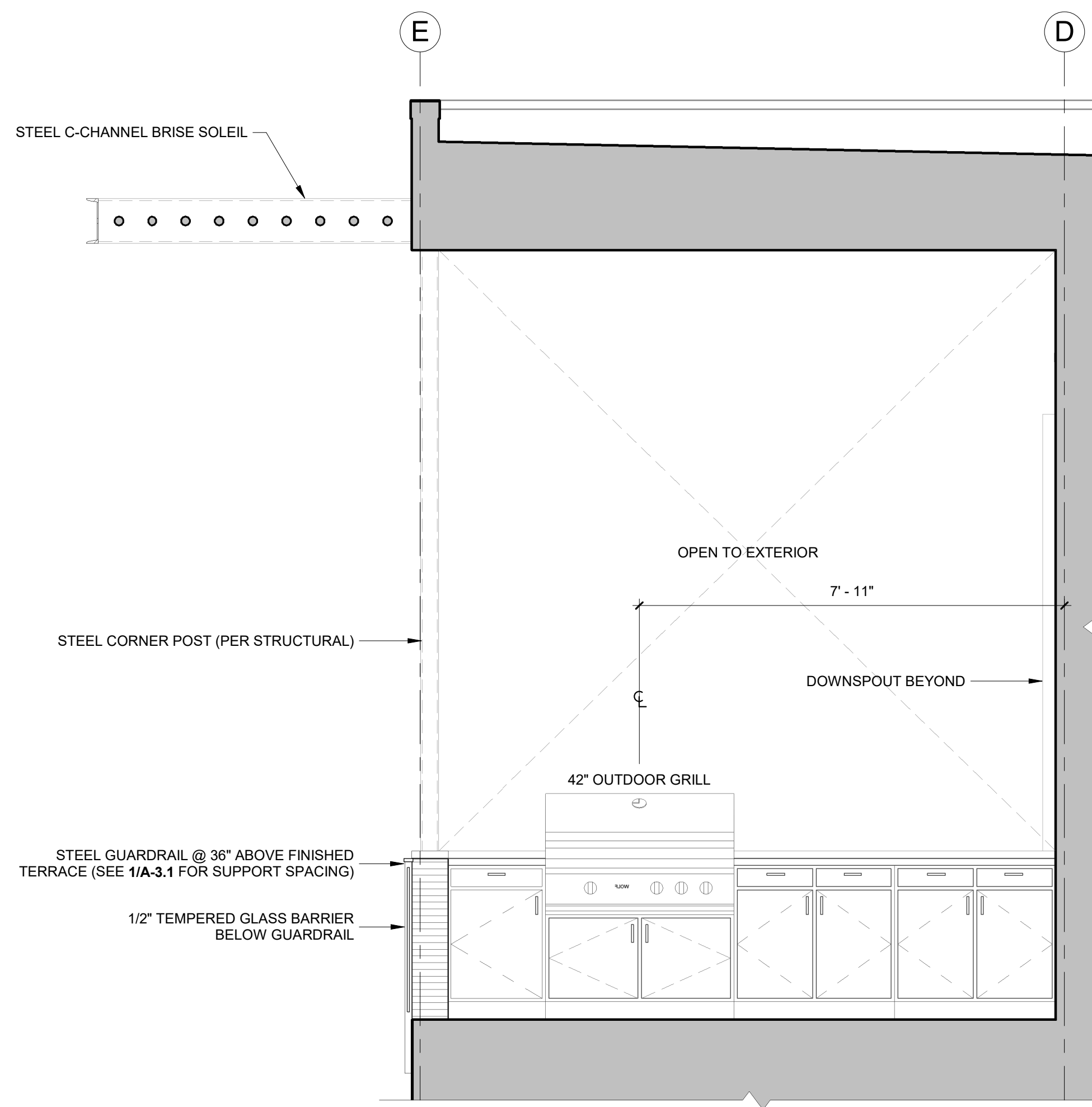
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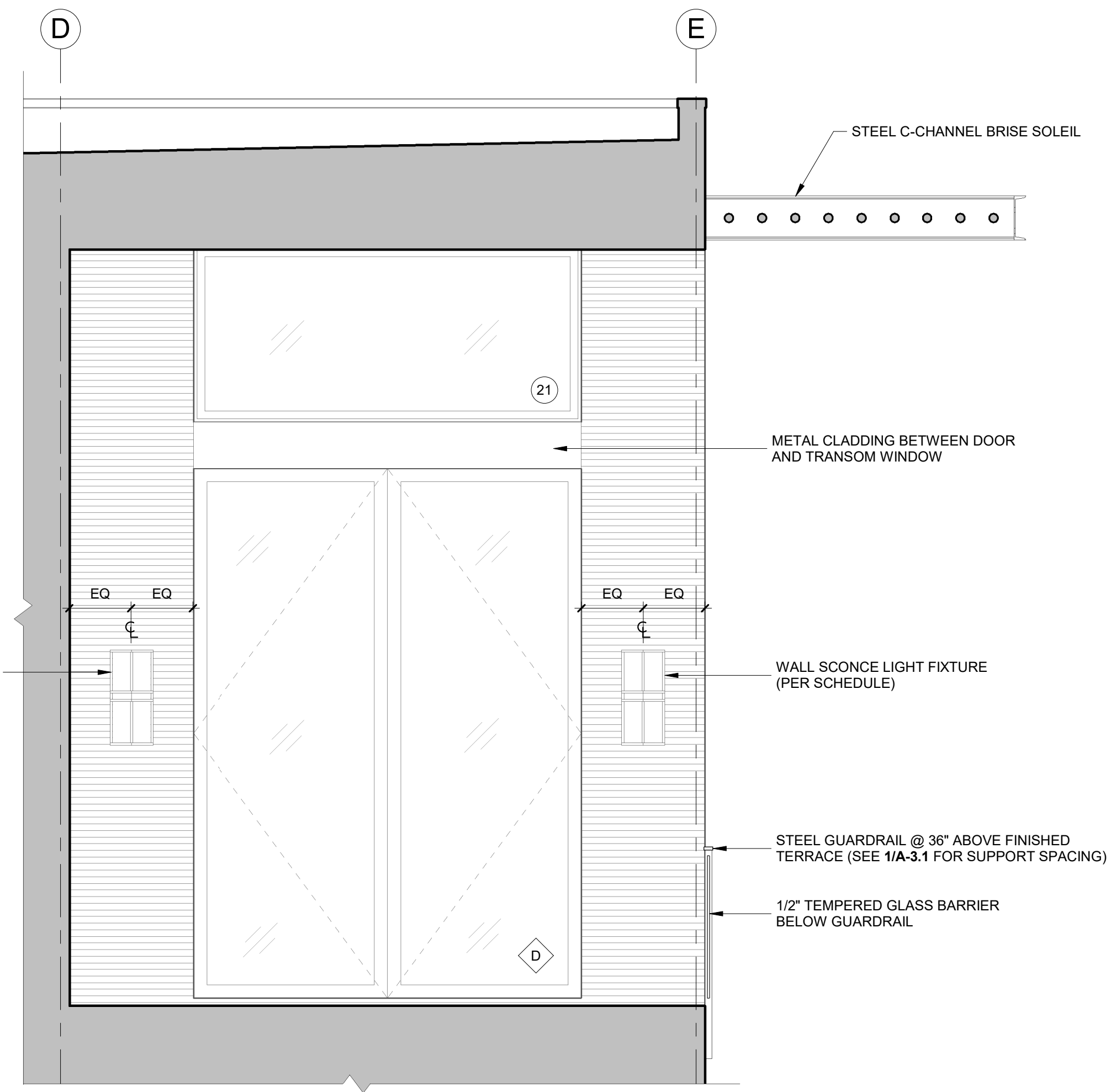
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PERMIT SET
EXTERIOR ELEVATIONS

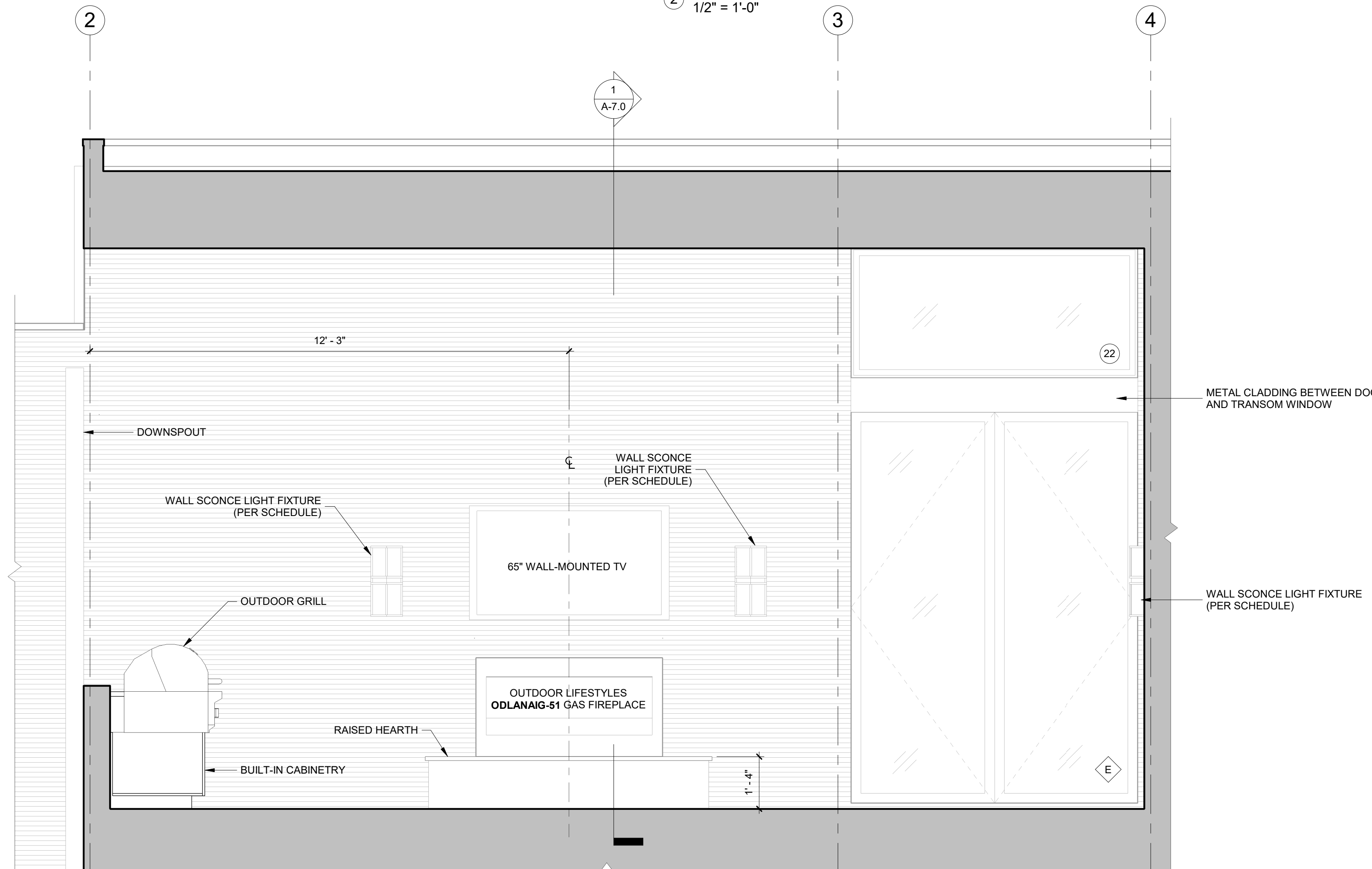
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1 210 COVERED TERRACE - NORTH
1/2" = 1'-0"



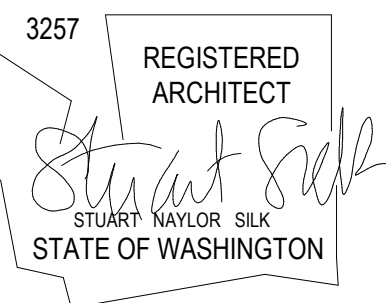
2 210 COVERED TERRACE - SOUTH
1/2" = 1'-0"



3 210 COVERED TERRACE - EAST
1/2" = 1'-0"

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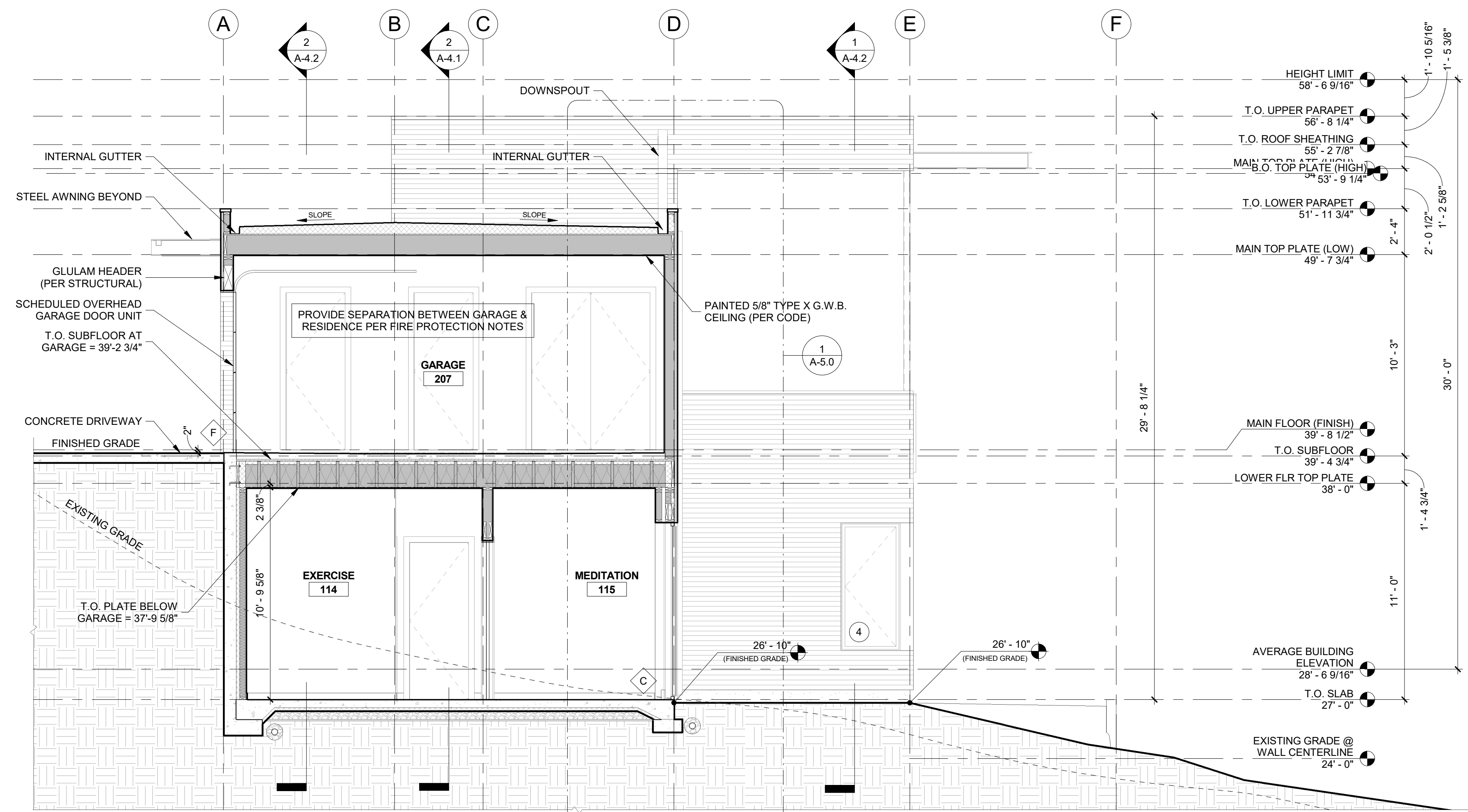
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LUNDIN RESIDENCE

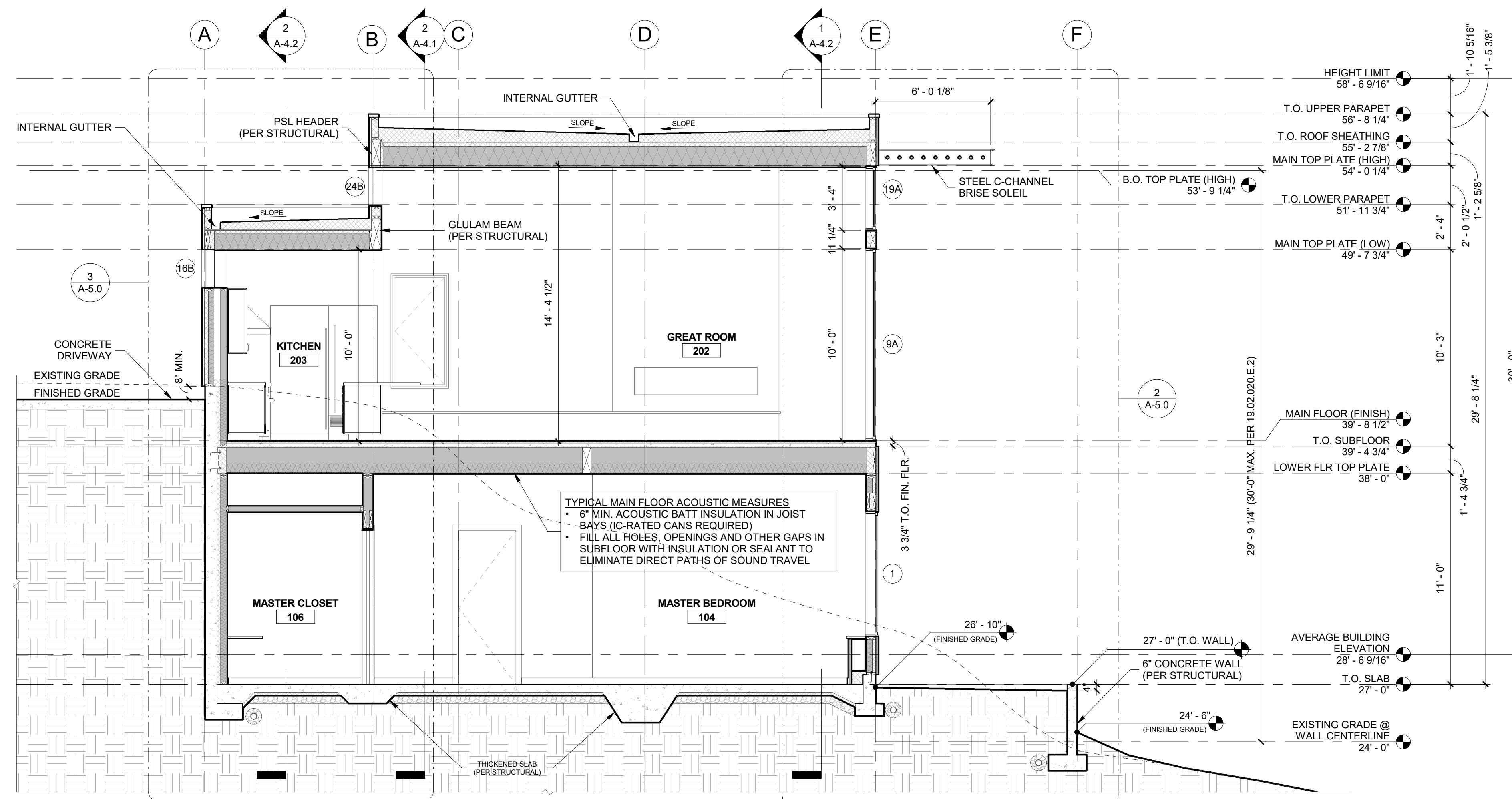
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PERMIT SET
EXTERIOR ELEVATIONS

A-3.2



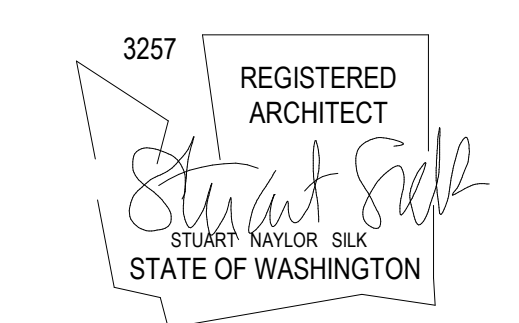
1 EAST/WEST SECTION 1
1/4" = 1'-0"



2 EAST/WEST SECTION 2
1/4" = 1'-0"

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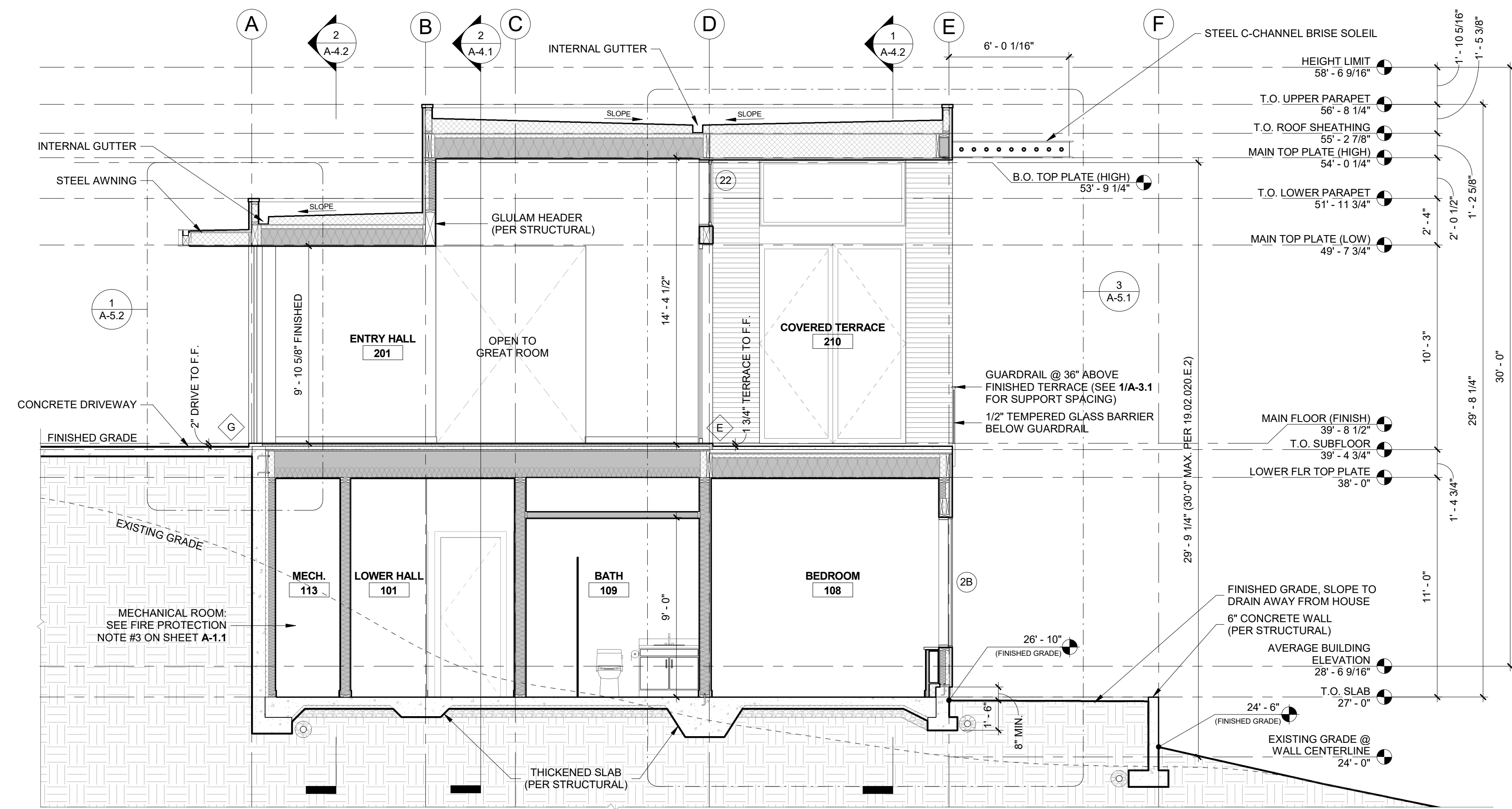
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LUNDIN RESIDENCE

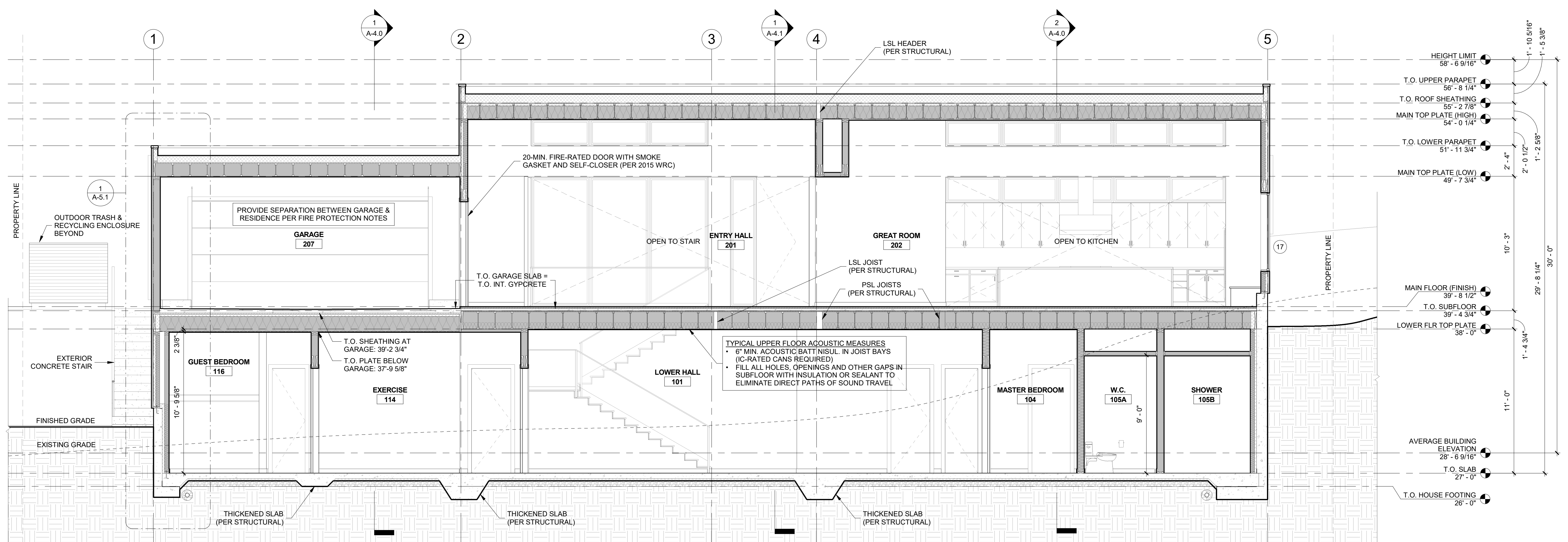
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PERMIT SET
BUILDING SECTIONS

A-4.0



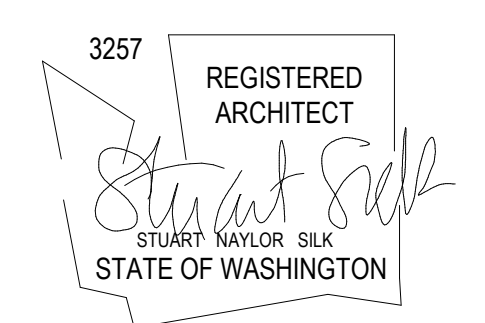
1 EAST/WEST SECTION 3
1/4" = 1'-0"



2 NORTH/SOUTH SECTION 1
1/4" = 1'-0"

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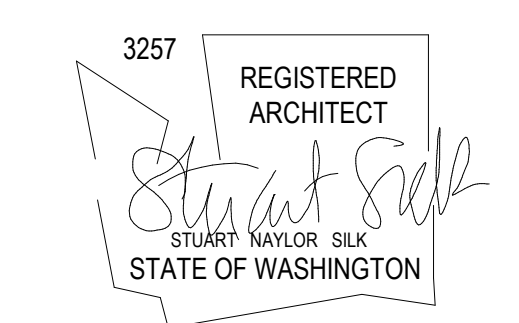
LUNDIN RESIDENCE
4041 West Mercer Way
Mercer Island, WA 98040

PERMIT SET
BUILDING SECTIONS

A-4.1

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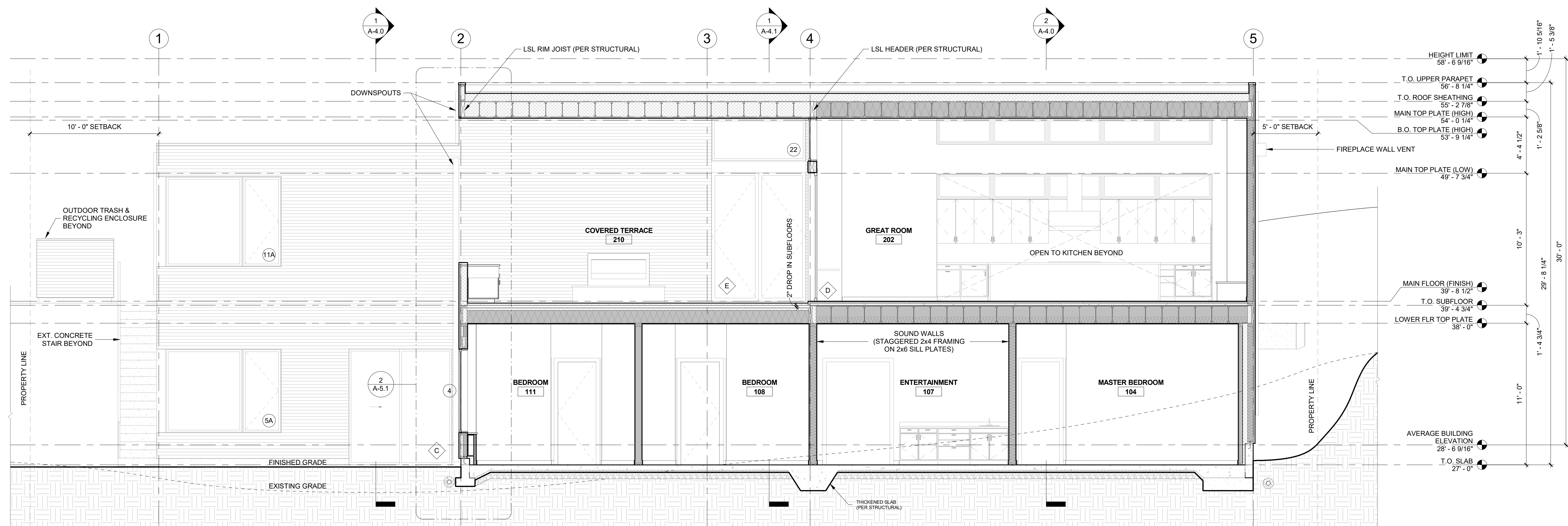
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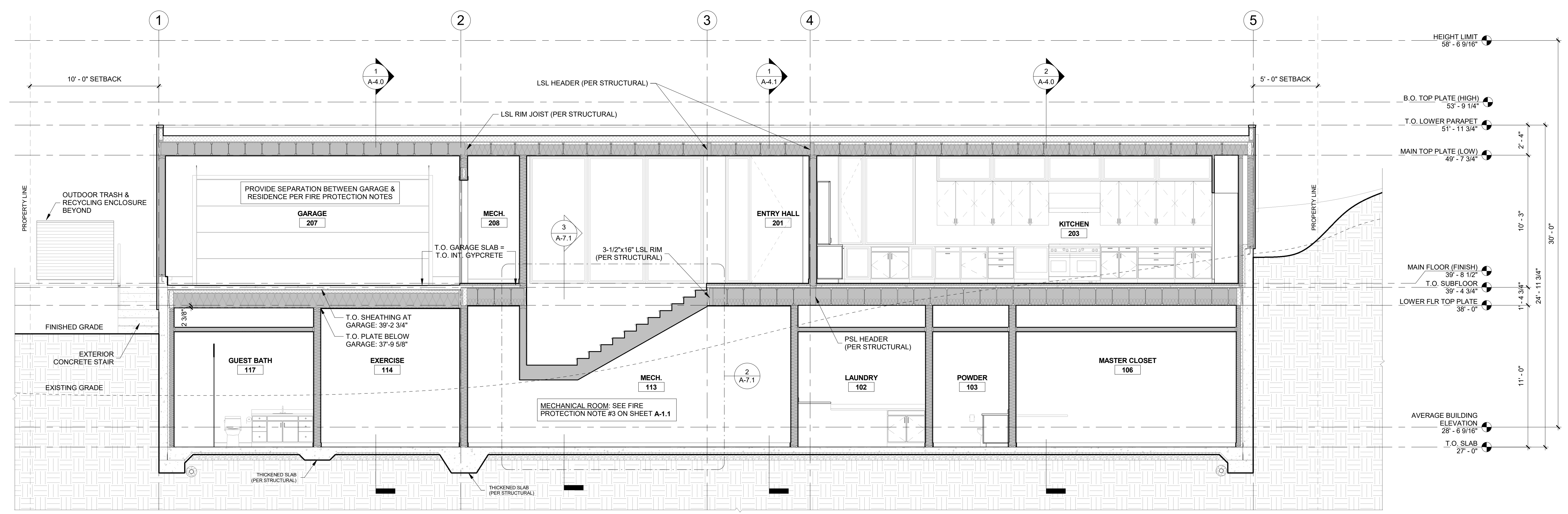
PERMIT SET
BUILDING SECTIONS

A-4.2

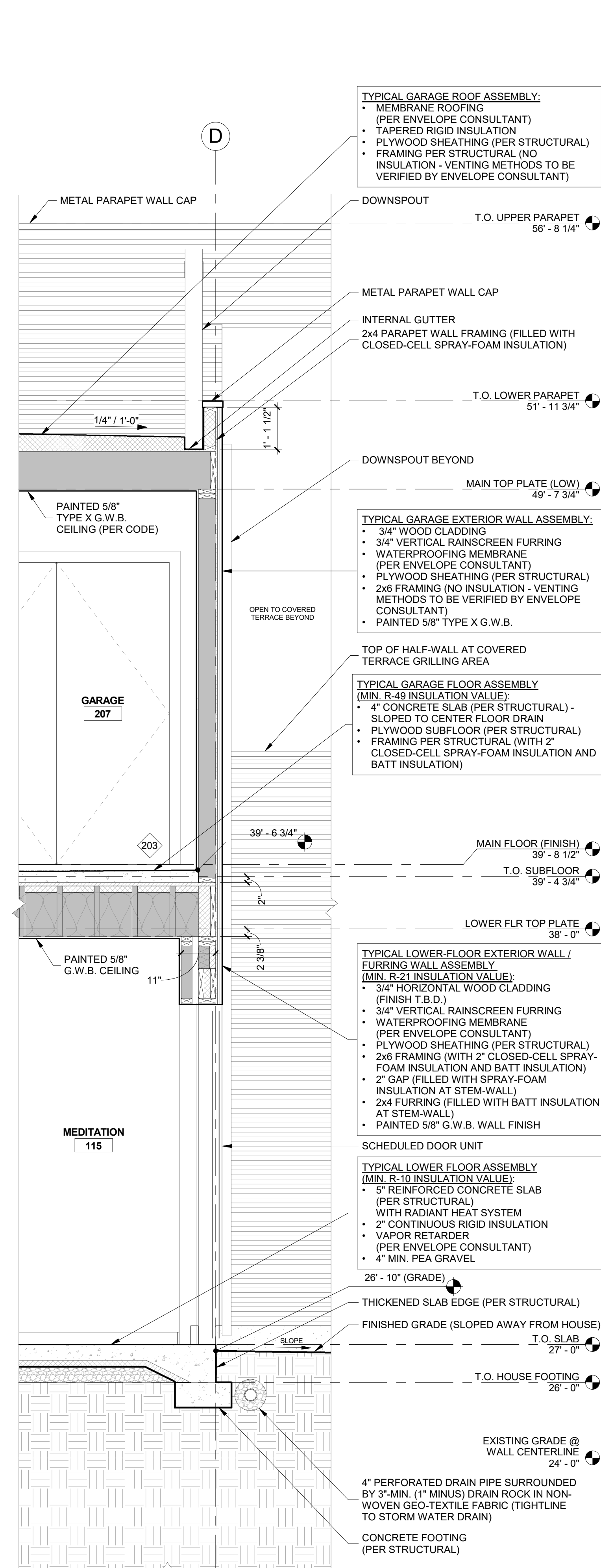
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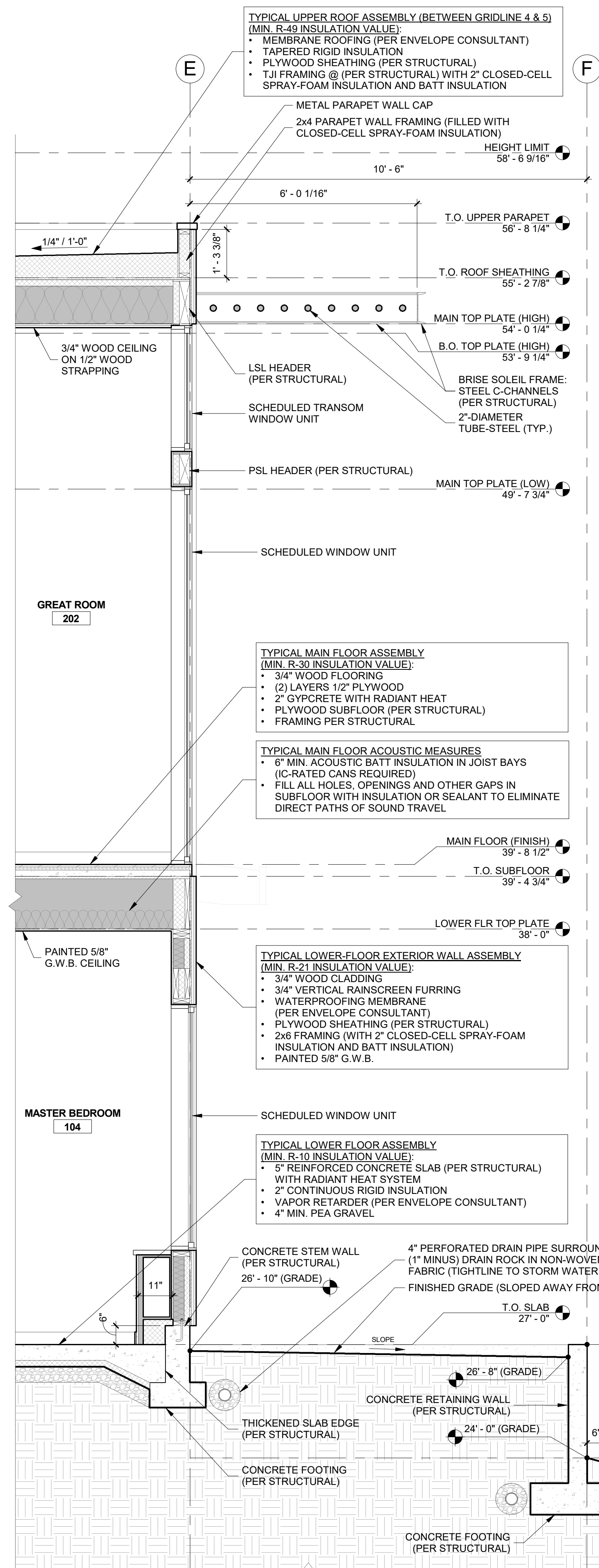
1 NORTH/SOUTH SECTION 2
1/4" = 1'-0"



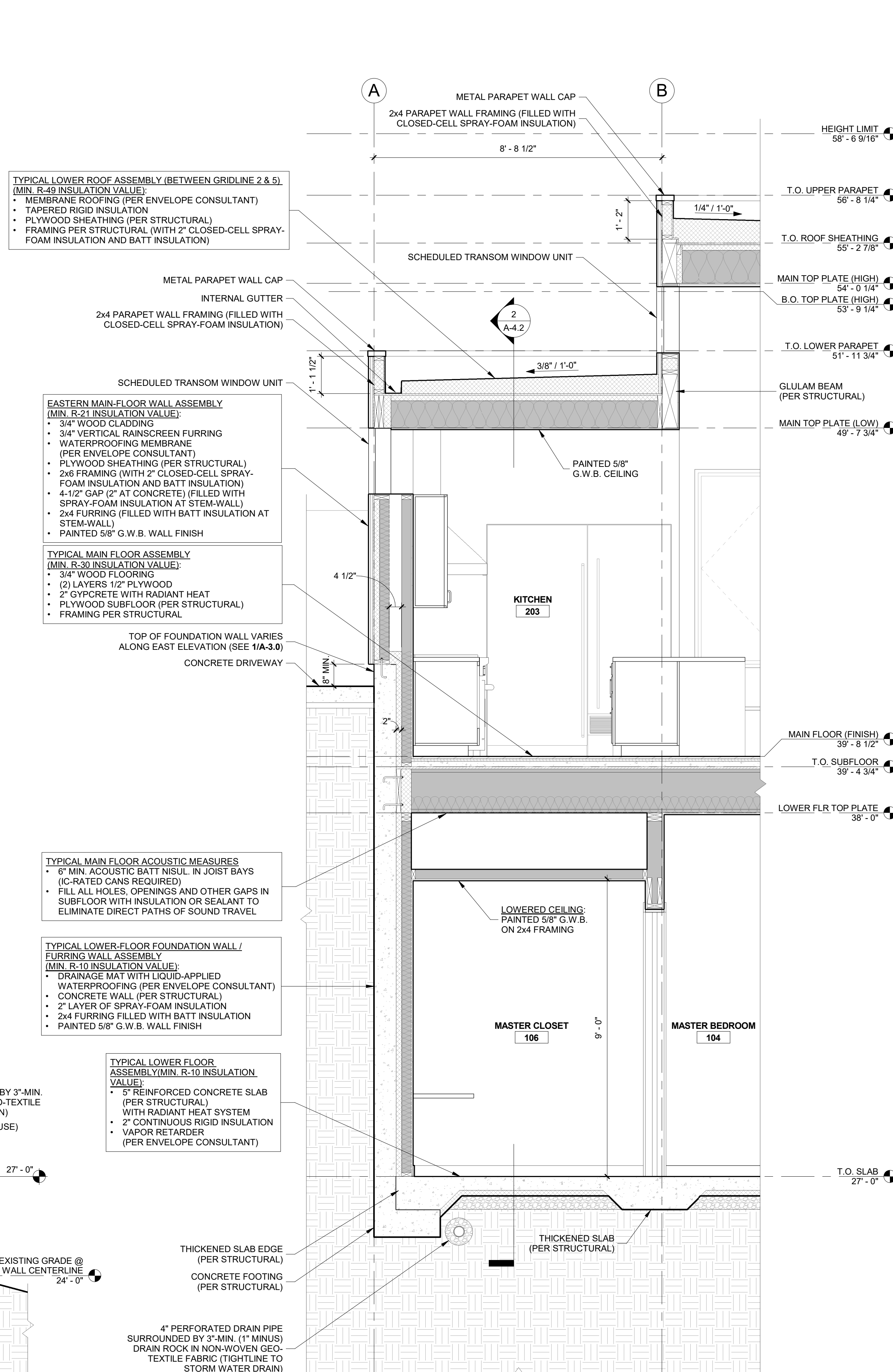
2 LOWER
1/4" = 1'-0"



1 WALL SECTION AT GARAGE 207 / MEDITATION 115
1/2" = 1'-0"



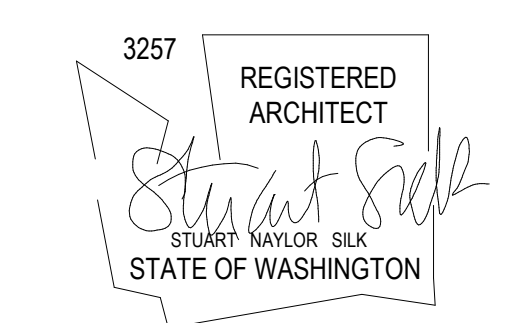
2 WALL SECTION AT GREAT ROOM 202 / MASTER BEDROOM 104
1/2" = 1'-0"



3 WALL SECTION AT KITCHEN 203 / MASTER CLOSET 106
1/2" = 1'-0"

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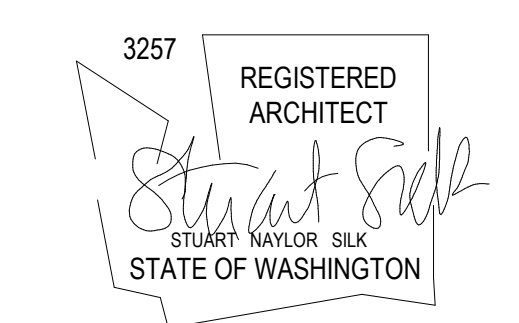
4041 West Mercer Way
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PERMIT SET
WALL SECTIONS

A-5.0

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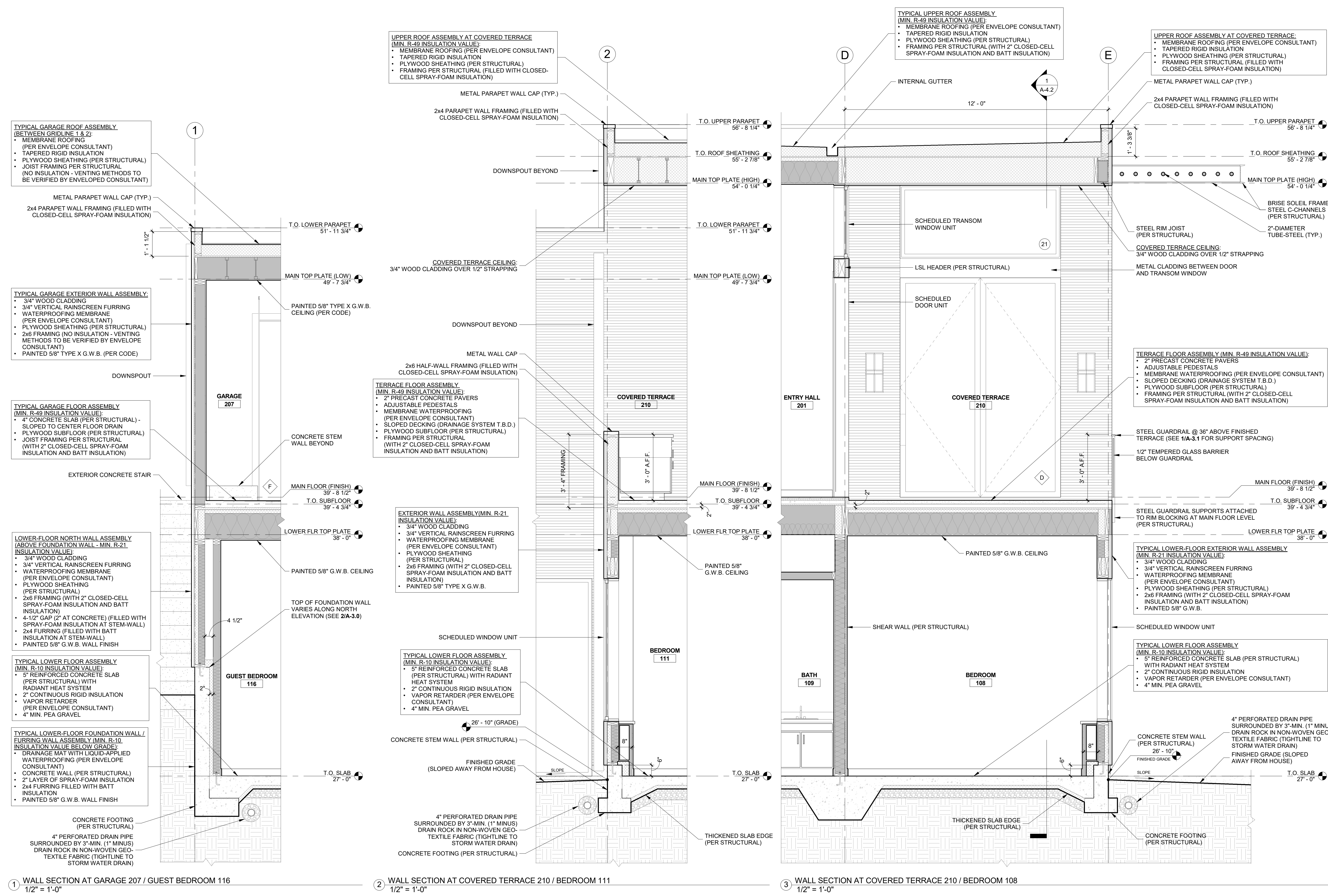
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WALL SECTIONS

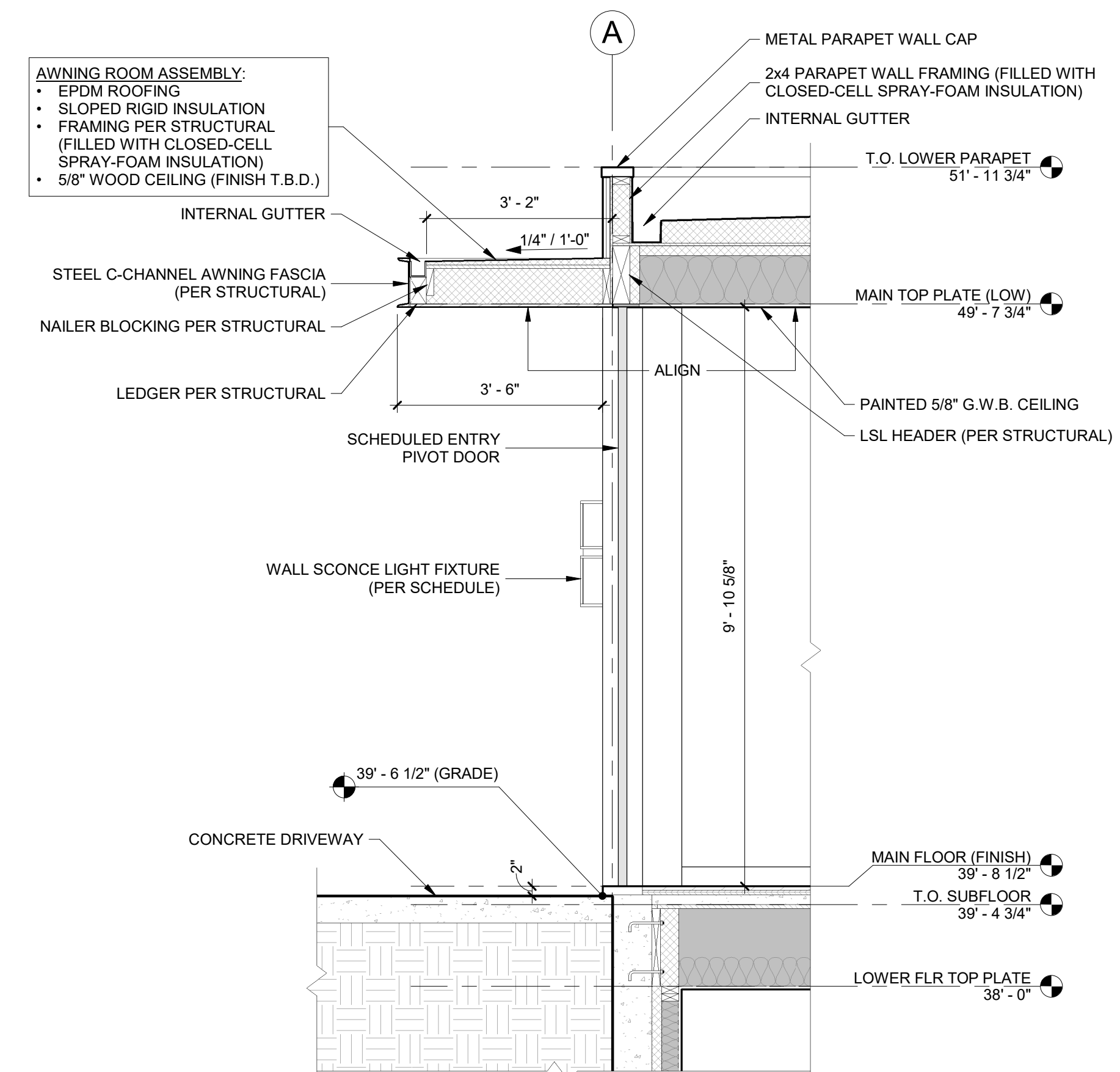
A-5.1



1 WALL SECTION AT GARAGE 207 / GUEST BEDROOM 116
1/2" = 1'-0"

2 WALL SECTION AT COVERED TERRACE 210 / BEDROOM 111
1/2" = 1'-0"

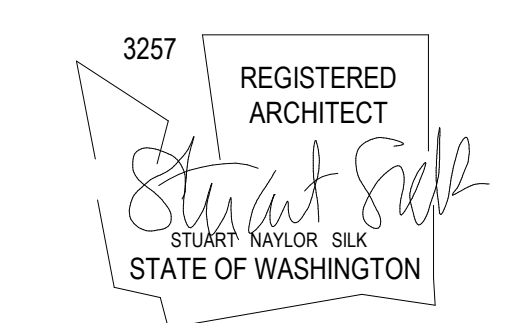
3 WALL SECTION AT COVERED TERRACE 210 / BEDROOM 108
1/2" = 1'-0"



1 WALL SECTION AT MAIN ENTRY
1/2" = 1'-0"

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PERMIT SET
WALL SECTIONS

A-5.2

EXTERIOR DOOR SCHEDULE															
MARK	LOCATION	ROOM	DESCRIPTION	DIAGRAM	WIDTH	HEIGHT	FRAME TYPE	FIRE RATING	U VALUE	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	HARDWARE REQUIREMENTS	LOCK FUNCTION	COMMENTS
A	MASTER BEDROOM	104	BYPASS SLIDER (GLASS PANEL)		9' - 10"	9' - 0"									SAFETY GLAZING
B	ENTERTAINMENT	107	BYPASS SLIDER (GLASS PANEL)		9' - 10"	9' - 0"									SAFETY GLAZING
C	MEDITATION	115	BYPASS SLIDER (GLASS PANEL)		8' - 0"	9' - 0"									SAFETY GLAZING
D	GREAT ROOM	202	DOUBLE HINGED (GLASS PANEL)		7' - 4"	10' - 0"									SAFETY GLAZING
E	ENTRY HALL	201	DOUBLE HINGED (GLASS PANEL)		7' - 4"	10' - 0"									SAFETY GLAZING
F	GARAGE	207	OVERHEAD DOOR		18' - 0"	8' - 2"									
G	ENTRY HALL	201	PIVOT HINGE (SOLID DOOR)		4' - 0"	9' - 10 5/8"									
H			SINGLE HINGED (SOLID DOOR)		3' - 0"	4' - 6"									TRASH ENCLOSURE GATE

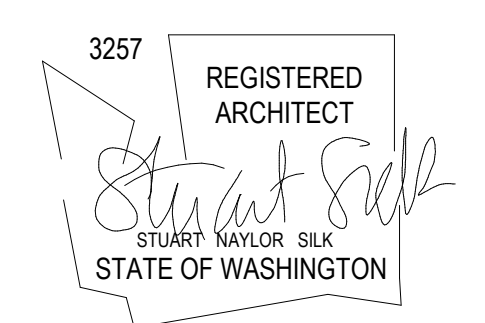
DOOR SCHEDULE NOTES
<ol style="list-style-type: none"> ALL UNIT DIMENSIONS ARE TO OUTSIDE OF FRAME. PROVIDE EXTERIOR TRIM ACCESSORIES AS SHOWN IN ARCHITECTURAL DETAILS. SEE DOOR DETAILS FOR CRITICAL DOOR INFORMATION. SHOP DRAWING APPROVAL BY ARCHITECT REQUIRED PRIOR TO FABRICATION. CONTRACTOR TO CONFIRM ALL REQUIRED ROUGH OPENING SIZES WITH MANUFACTURER PRIOR TO FRAMING. MANUFACTURER TO REVIEW INSTALLATION LOCATIONS AND DETERMINE WHICH LITES ARE REQUIRED TO HAVE SAFETY GLAZING. MANUFACTURER TO REVIEW INSTALLATION LOCATIONS AND SIZES TO DETERMINE IF OPERABLE DOORS MEET EGRESS REQUIREMENTS.
DOOR SCHEDULE ORGANIZATION
<ol style="list-style-type: none"> EXTERIOR DOORS ARE CALLED OUT WITH A SINGLE LETTER (EXAMPLE: A, B, C...). LABELING BEGINS AT THE LOWER LEVEL, THEN MAIN, THEN UPPER. LABELING BEGINS AT THE EAST ELEVATION AND PROCEEDS CLOCKWISE.

WINDOW SCHEDULE									
MARK	LOCATION	ROOM	DESCRIPTION	WIDTH	HEIGHT	U VALUE	COMMENTS		
1	MASTER BEDROOM	104	FIXED	5' - 0"	6' - 6"	0.3			
2A	BEDROOM	108	CASEMENT	3' - 0"	6' - 6"	0.3	MULLED UNIT		
2B	BEDROOM	108	FIXED	6' - 0"	6' - 6"	0.3	MULLED UNIT		
3A	BEDROOM	111	CASEMENT	3' - 0"	6' - 6"	0.3	MULLED UNIT		
3B	BEDROOM	111	FIXED	6' - 0"	6' - 6"	0.3	MULLED UNIT		
4	BEDROOM	111	CASEMENT	3' - 0"	6' - 6"	0.3	SINGLE CASEMENT		
5A	GUEST BEDROOM	116	CASEMENT	3' - 0"	6' - 6"	0.3	MULLED UNIT		
5B	GUEST BEDROOM	116	FIXED	6' - 0"	6' - 6"	0.3	MULLED UNIT		
6	GUEST BEDROOM	116	CASEMENT	3' - 0"	6' - 6"	0.3	SINGLE CASEMENT		
7	MASTER BATH	105	FIXED	6' - 0"	2' - 0"	0.3			
8A	GREAT ROOM	202	FIXED	5' - 0"	10' - 0"	0.3	MULLED UNIT WITH SAFETY GLAZING		
8B	GREAT ROOM	202	FIXED	5' - 0"	10' - 0"	0.3	MULLED UNIT WITH SAFETY GLAZING		
9A	GREAT ROOM	202	FIXED	5' - 0"	10' - 0"	0.3	MULLED UNIT WITH SAFETY GLAZING		
9B	GREAT ROOM	202	FIXED	5' - 0"	10' - 0"	0.3	MULLED UNIT WITH SAFETY GLAZING		
10A	GREAT ROOM	202	FIXED	5' - 0"	10' - 0"	0.3	MULLED UNIT WITH SAFETY GLAZING		
10B	GREAT ROOM	202	FIXED	5' - 0"	10' - 0"	0.3	MULLED UNIT WITH SAFETY GLAZING		
11A	GARAGE	207	CASEMENT	3' - 0"	7' - 0"	0.3	MULLED UNIT		
11B	GARAGE	207	FIXED	6' - 0"	7' - 0"	0.3	MULLED UNIT		
12	GARAGE	207	CASEMENT	3' - 0"	7' - 0"	0.3	SINGLE CASEMENT		
13A	ENTRY HALL	201	FIXED	4' - 6"	9' - 10 5/8"	0.3	MULLED UNIT WITH SAFETY GLAZING		
13B	ENTRY HALL	201	FIXED	4' - 6"	9' - 10 5/8"	0.3	MULLED UNIT WITH SAFETY GLAZING		
13C	ENTRY HALL	201	FIXED	4' - 6"	9' - 10 5/8"	0.3	MULLED UNIT WITH SAFETY GLAZING		
14	ENTRY HALL	201	FIXED SIDELITE	2' - 0"	9' - 10 5/8"	0.3	MULLED UNIT		
15A	PANTRY	204	CASEMENT	2' - 0"	7' - 0"	0.3	MULLED UNIT		
15B	PANTRY	204	FIXED	4' - 0"	7' - 0"	0.3	MULLED UNIT		
16A	KITCHEN	203	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
16B	KITCHEN	203	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
16C	KITCHEN	203	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
16D	KITCHEN	203	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
16E	KITCHEN	203	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
17	GREAT ROOM	202	CASEMENT	3' - 0"	6' - 0"	0.3	SINGLE CASEMENT		
18A	GREAT ROOM	202		5' - 0"	3' - 4"	0.3	MULLED UNIT		
18B	GREAT ROOM	202		5' - 0"	3' - 4"	0.3	MULLED UNIT		
19A	GREAT ROOM	202		5' - 0"	3' - 4"	0.3	MULLED UNIT		
19B	GREAT ROOM	202		5' - 0"	3' - 4"	0.3	MULLED UNIT		
20A	GREAT ROOM	202		5' - 0"	3' - 4"	0.3	MULLED UNIT		
20B	GREAT ROOM	202		5' - 0"	3' - 4"	0.3	MULLED UNIT		
21	COVERED TERRACE	210		7' - 4"	3' - 4"	0.3	MULLED UNIT		
22	COVERED TERRACE	210		7' - 4"	3' - 4"	0.3			
23A	ENTRY HALL	201	FIXED	4' - 6"	2' - 0"	0.3	MULLED UNIT		
23B	ENTRY HALL	201	FIXED	4' - 6"	2' - 0"	0.3	MULLED UNIT		
23C	ENTRY HALL	201	FIXED	4' - 6"	2' - 0"	0.3	MULLED UNIT		
24A	GREAT ROOM	202	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
24B	GREAT ROOM	202	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
24C	GREAT ROOM	202	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
24D	GREAT ROOM	202	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		
24E	GREAT ROOM	202	FIXED TRANSOM	4' - 3 1/4"	2' - 0"	0.3	MULLED UNIT		

WINDOW SCHEDULE ORGANIZATION
<ol style="list-style-type: none"> WINDOWS ARE CALLED OUT WITH A SINGLE NUMBER (EXAMPLE: 1, 2, 3...). LABELING BEGINS AT THE LOWER LEVEL, THEN MAIN, THEN UPPER. LABELING BEGINS AT THE EAST ELEVATION AND PROCEEDS CLOCKWISE.
GENERAL WINDOW NOTES
<ol style="list-style-type: none"> WINDOWS ADJACENT TO DOORS AND/OR LESS THAN 18" FROM FINISH FLOOR TO INCLUDE TEMPERED GLASS.

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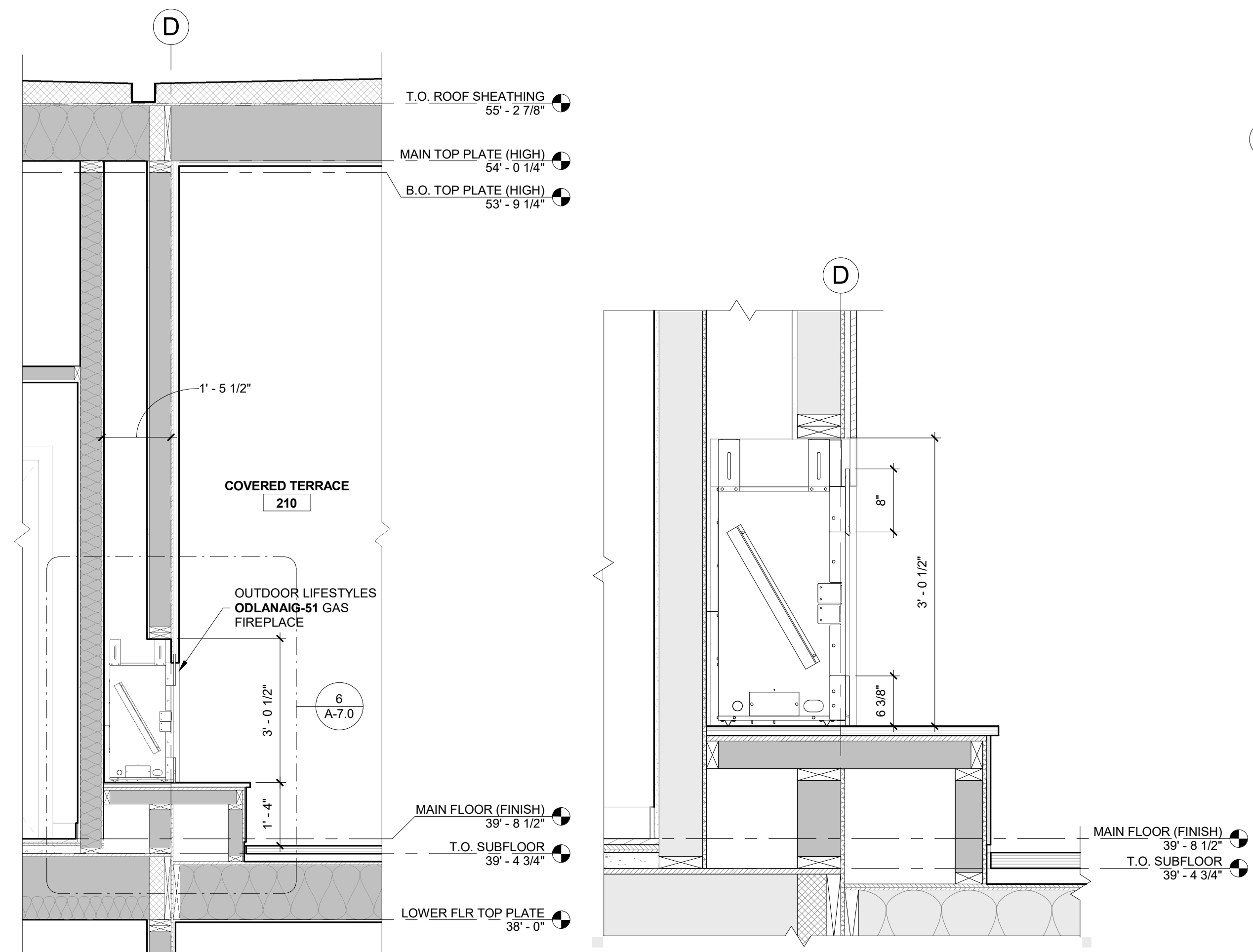
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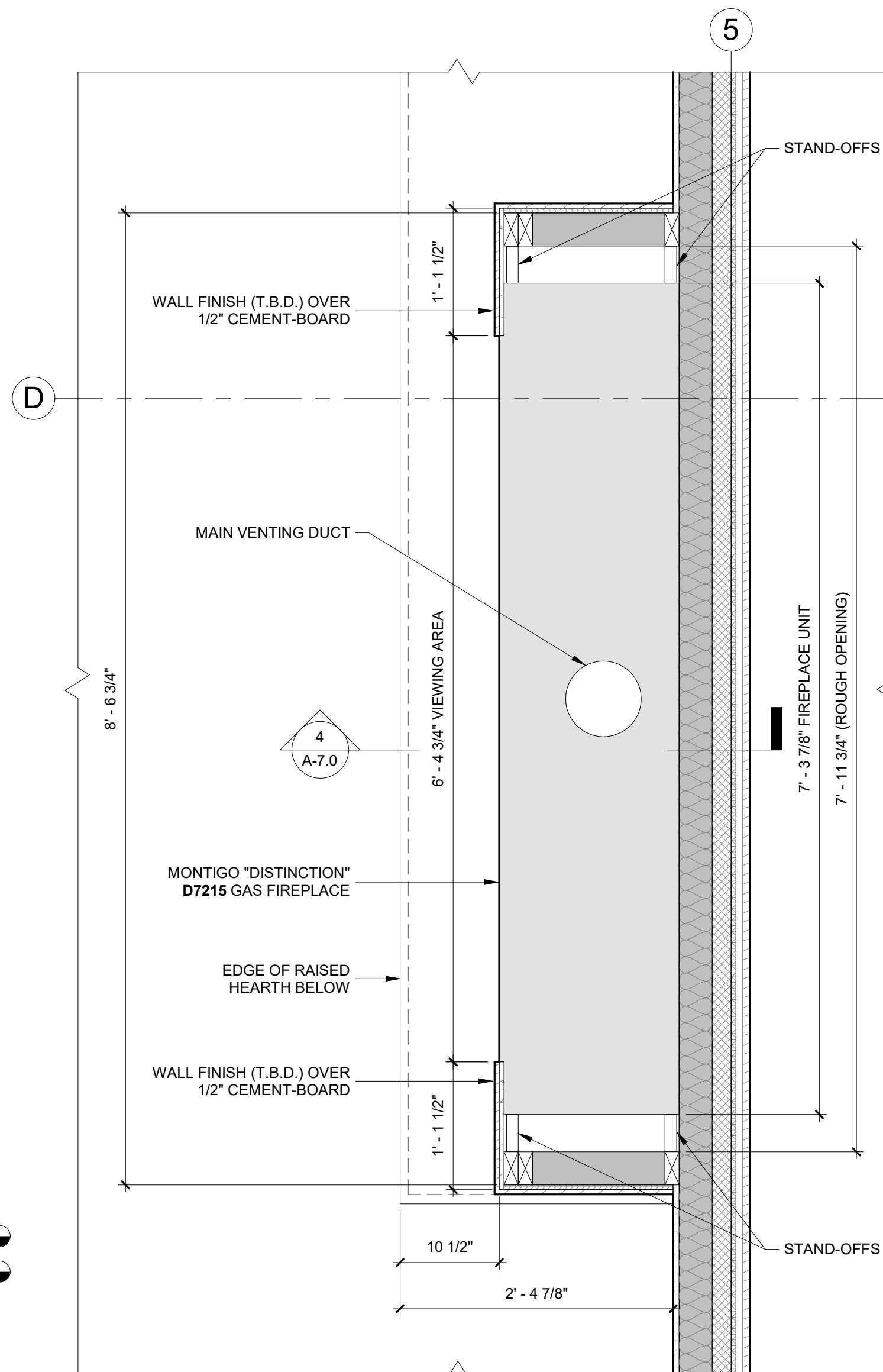
PERMIT SET
DOOR & WINDOW SCHEDULES

A-6.0

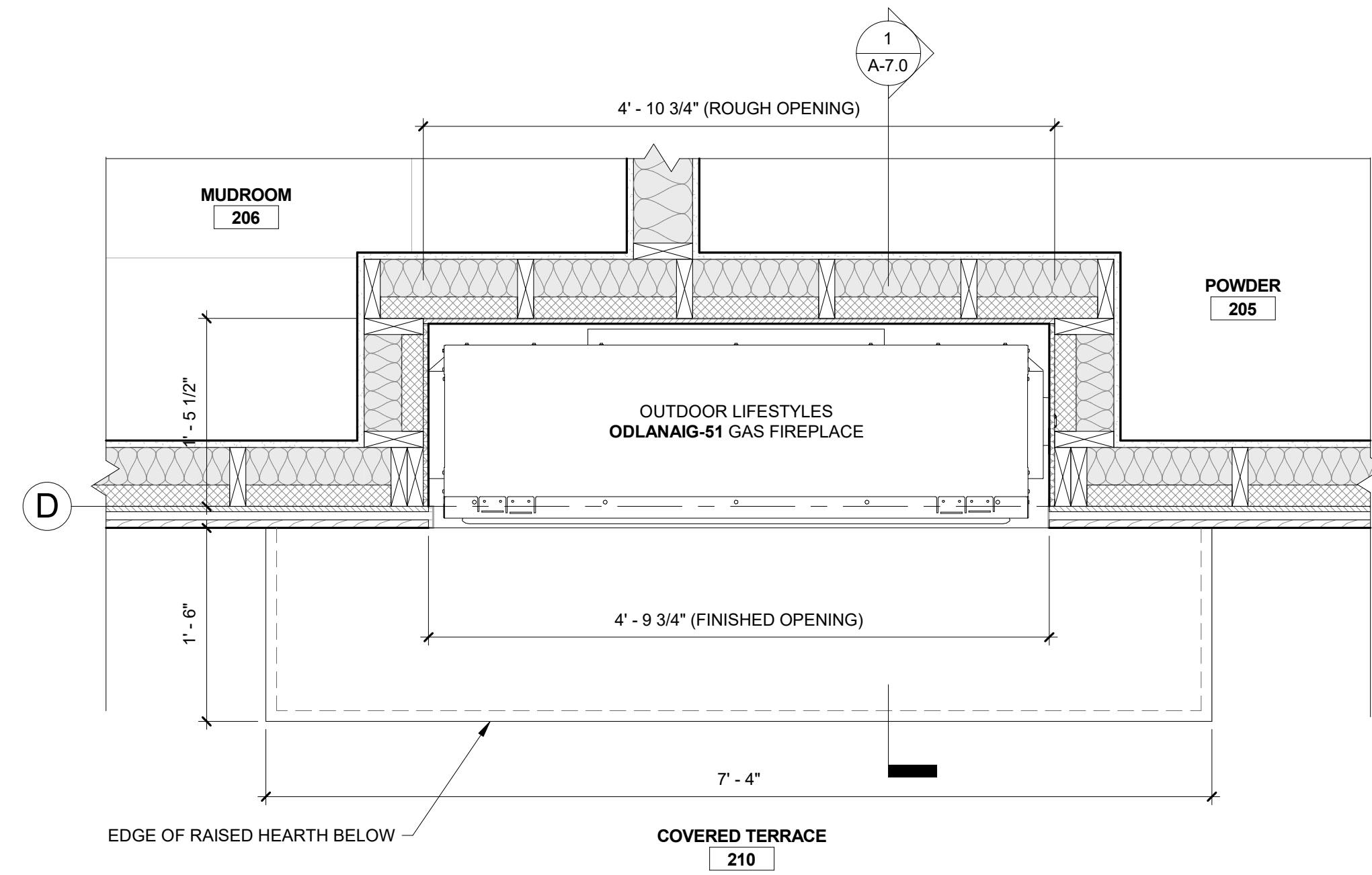


1 FIREPLACE WALL SECTION (COVERED TERRACE)
1/2" = 1'-0"

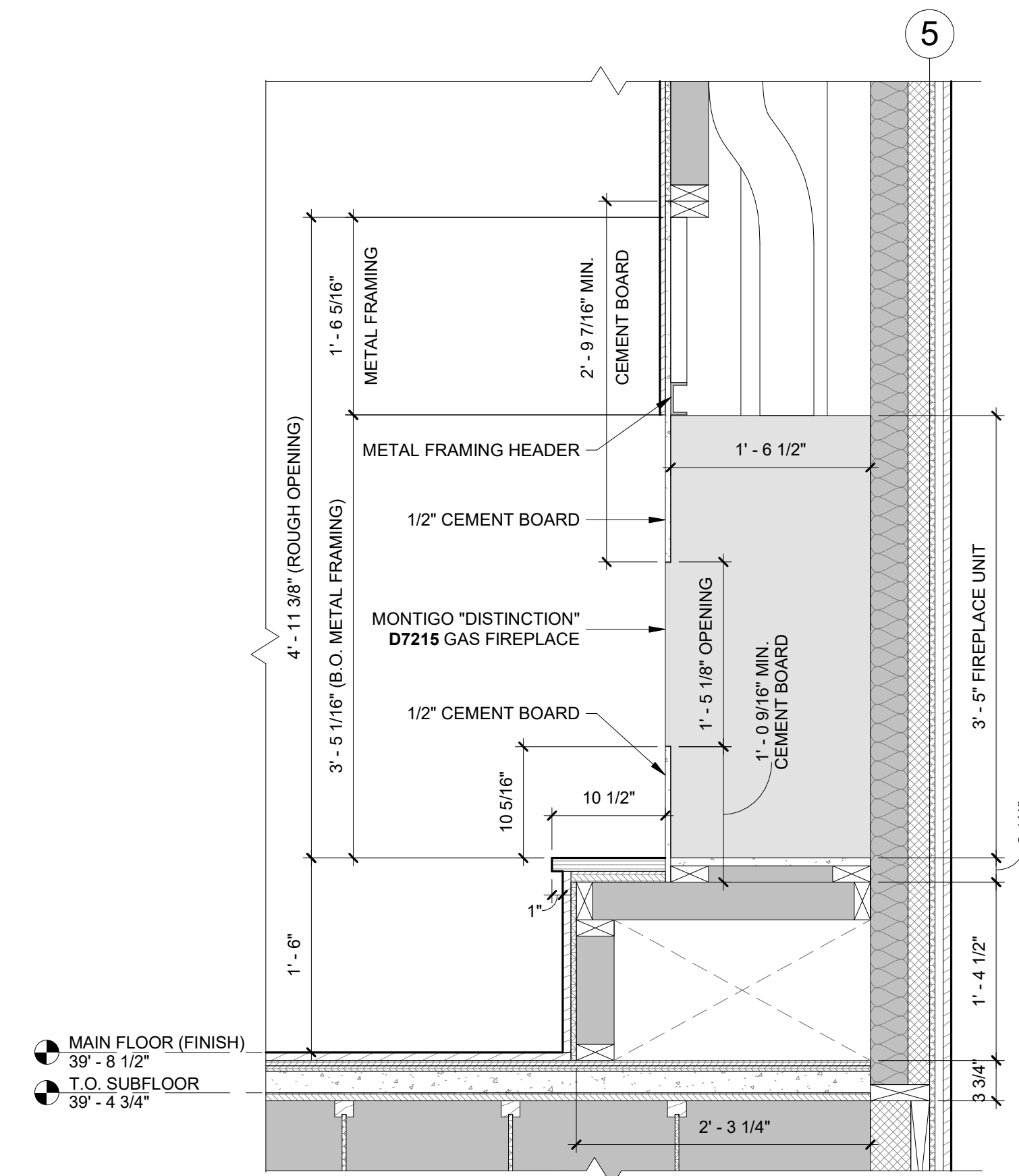
6 FIREPLACE SECTION DETAIL (COVERED TERRACE)
1" = 1'-0"



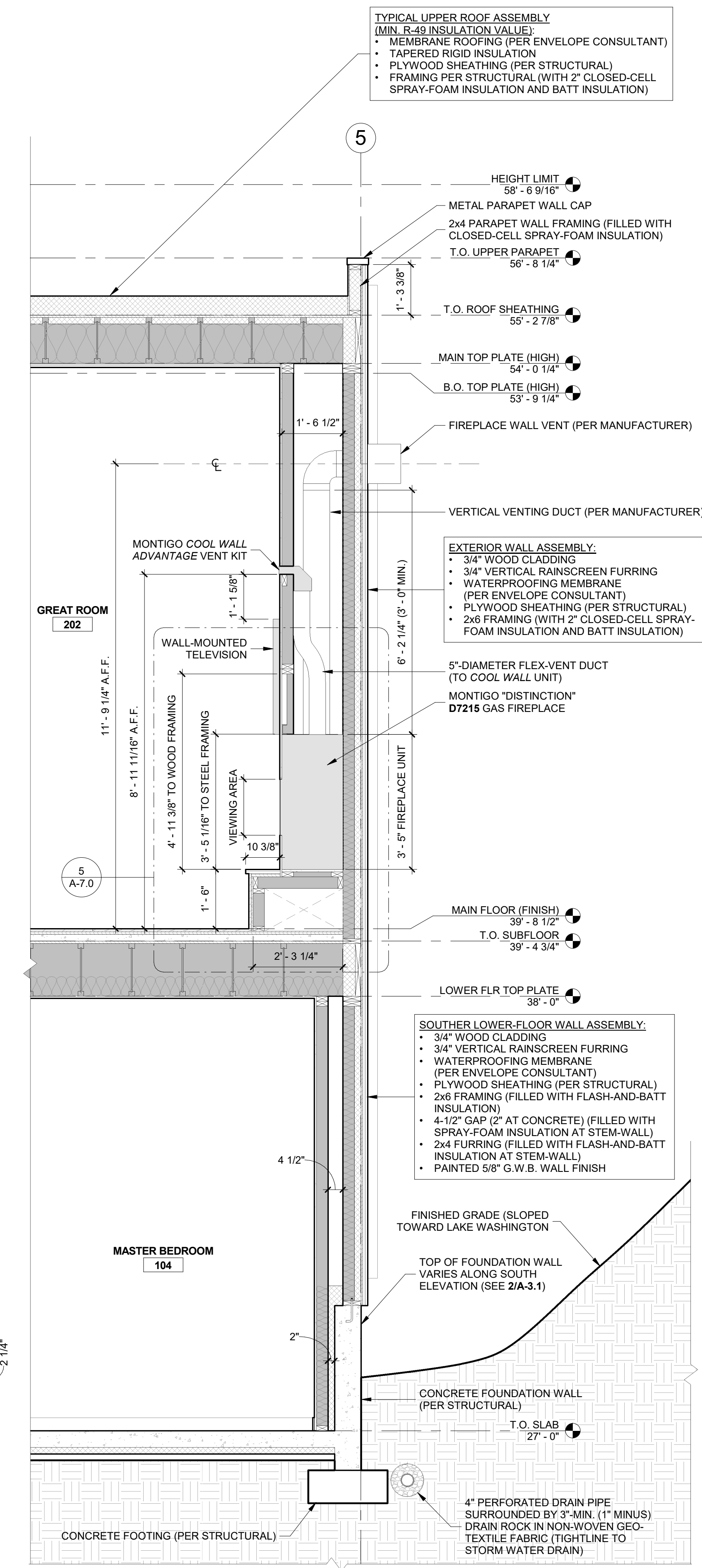
3 FIREPLACE PLAN DETAIL (GREAT ROOM)
1" = 1'-0"



2 FIREPLACE PLAN DETAIL (COVERED TERRACE)
1" = 1'-0"



5 FIREPLACE SECTION DETAIL (GREAT ROOM)
1" = 1'-0"



4 FIREPLACE WALL SECTION (GREAT ROOM)
1/2" = 1'-0"

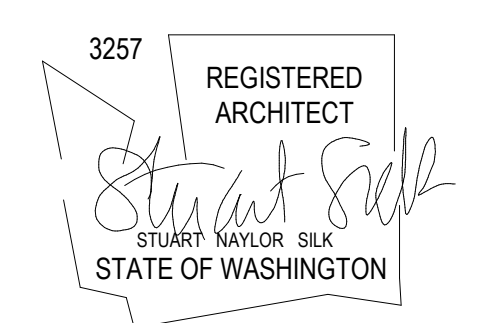
TYPICAL UPPER ROOF ASSEMBLY
(MIN. R-49 INSULATION VALUE)
• MEMBRANE ROOFING (PER ENVELOPE CONSULTANT)
• TAPERED RIGID INSULATION
• PLYWOOD SHEATHING (PER STRUCTURAL)
• FRAMING PER STRUCTURAL (WITH 2" CLOSED-CELL SPRAY-FOAM INSULATION AND BATT INSULATION)

EXTERIOR WALL ASSEMBLY:
• 3/4" WOOD CLADDING
• 3/4" VERTICAL RAINSCREEN FURRING
• WATERPROOFING MEMBRANE (PER ENVELOPE CONSULTANT)
• PLYWOOD SHEATHING (PER STRUCTURAL)
• 2x6 FRAMING (WITH 2" CLOSED-CELL SPRAY-FOAM INSULATION AND BATT INSULATION)

SOUTHER LOWER-FLOOR WALL ASSEMBLY:
• 3/4" WOOD CLADDING
• 3/4" VERTICAL RAINSCREEN FURRING
• WATERPROOFING MEMBRANE (PER ENVELOPE CONSULTANT)
• 2x6 FRAMING (FILLED WITH FLASH-AND-BATT INSULATION)
• 4-1/2" GAP (2" AT CONCRETE) (FILLED WITH SPRAY-FOAM INSULATION AT STEM-WALL)
• 2x4 FURRING (FILLED WITH FLASH-AND-BATT INSULATION AT STEM-WALL)
• PAINTED 5/8" G.W.B. WALL FINISH

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SHEET ISSUE DATE	01/08/2019
DRAWING SETS	
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PERMIT SET
FIREPLACE DETAILS

A-7.0

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REGISTERED ARCHITECT
Stuart Silk
STUART SILK ARCHITECTS
STATE OF WASHINGTON

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DRAWN TES
CHECKED DM
SHEET ISSUE DATE 01/08/2019
DRAWING SETS

REVISIONS

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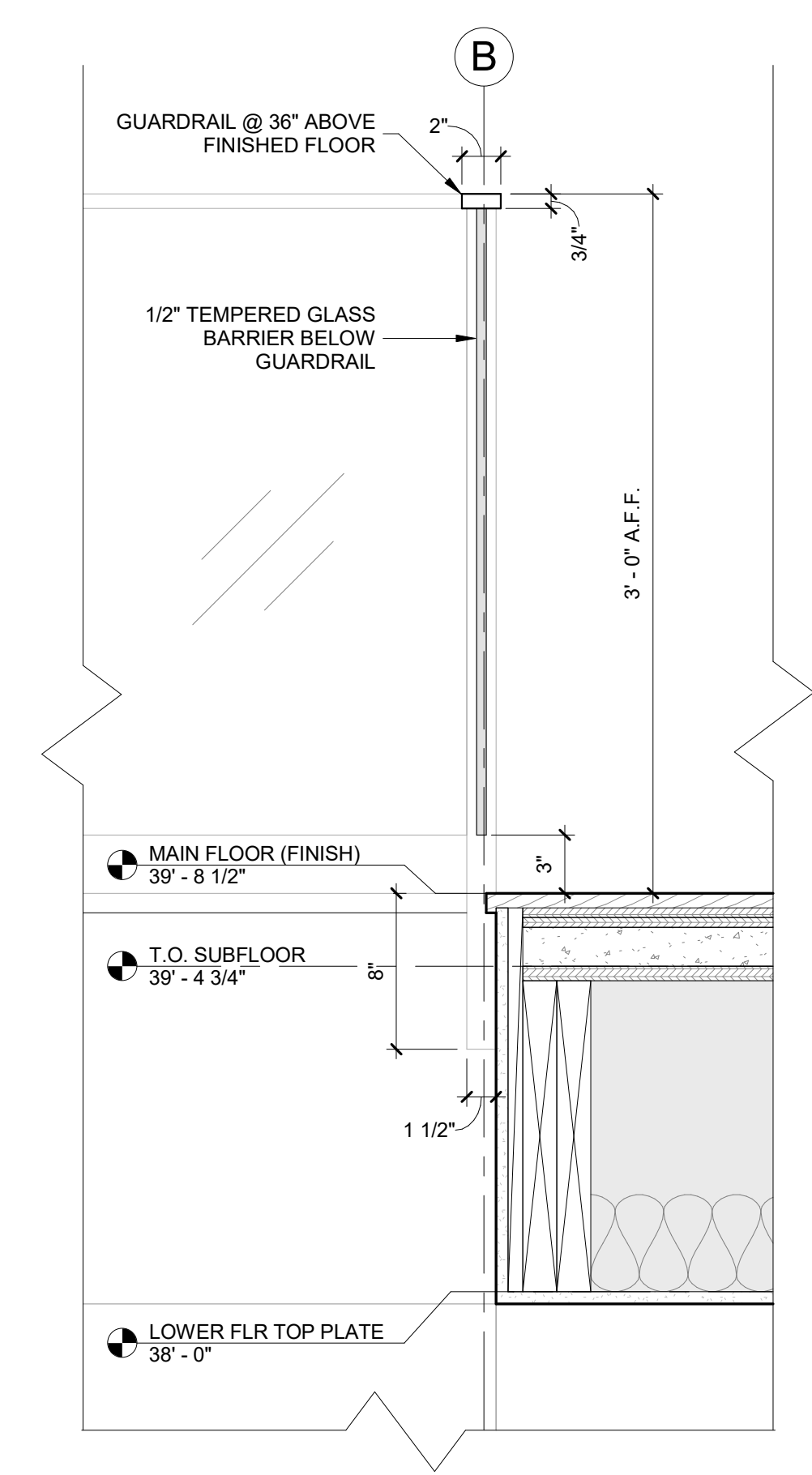
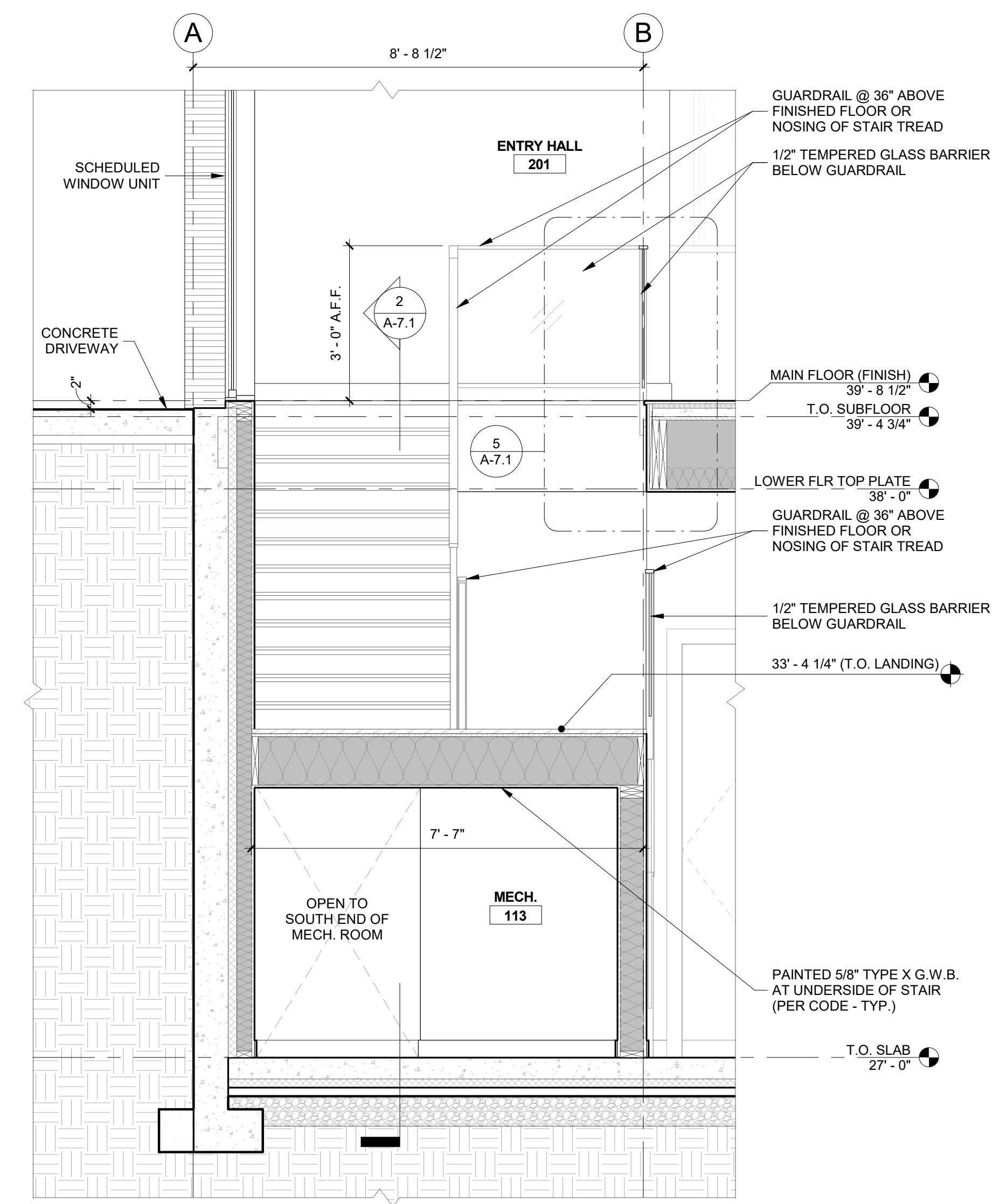
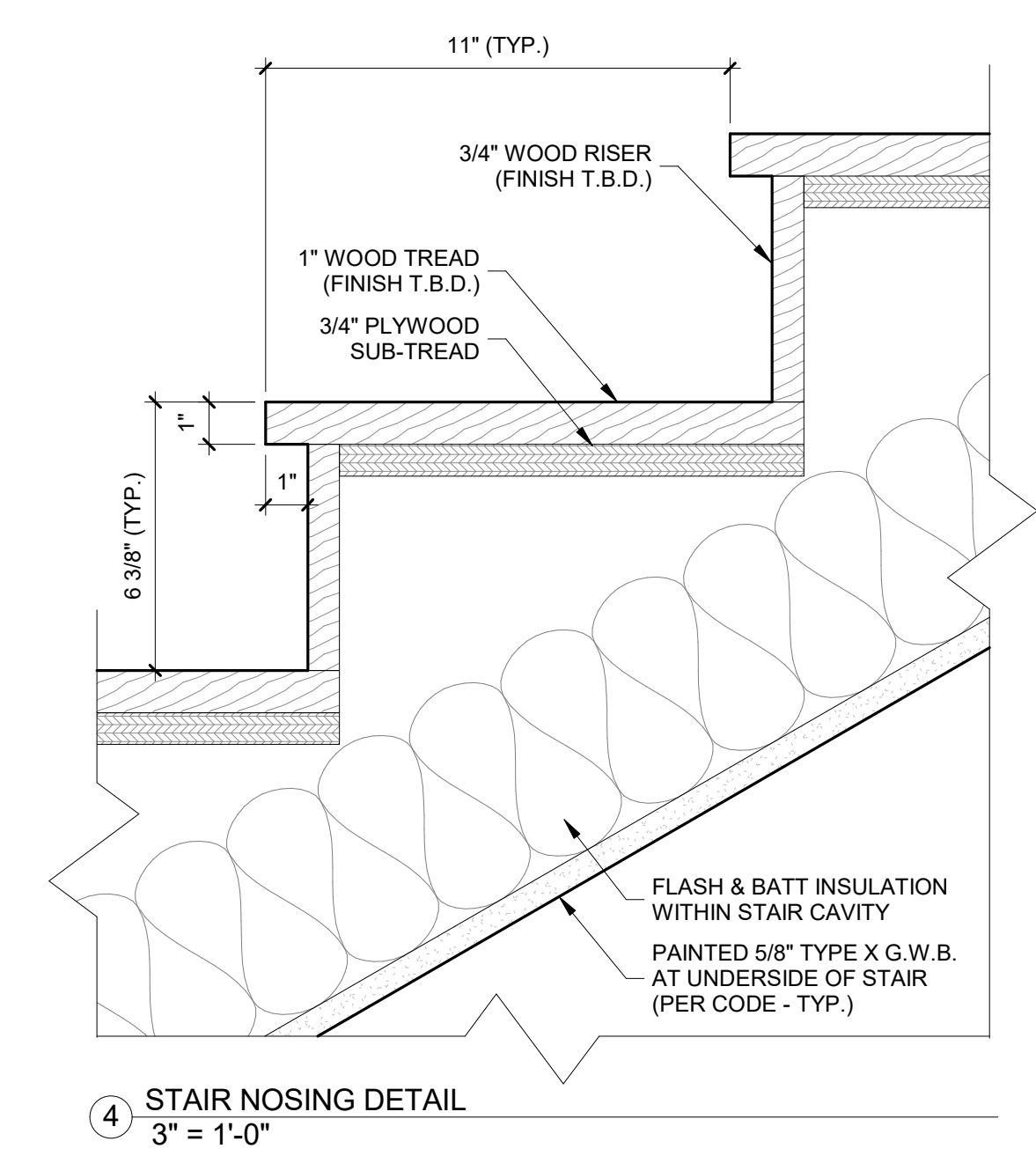
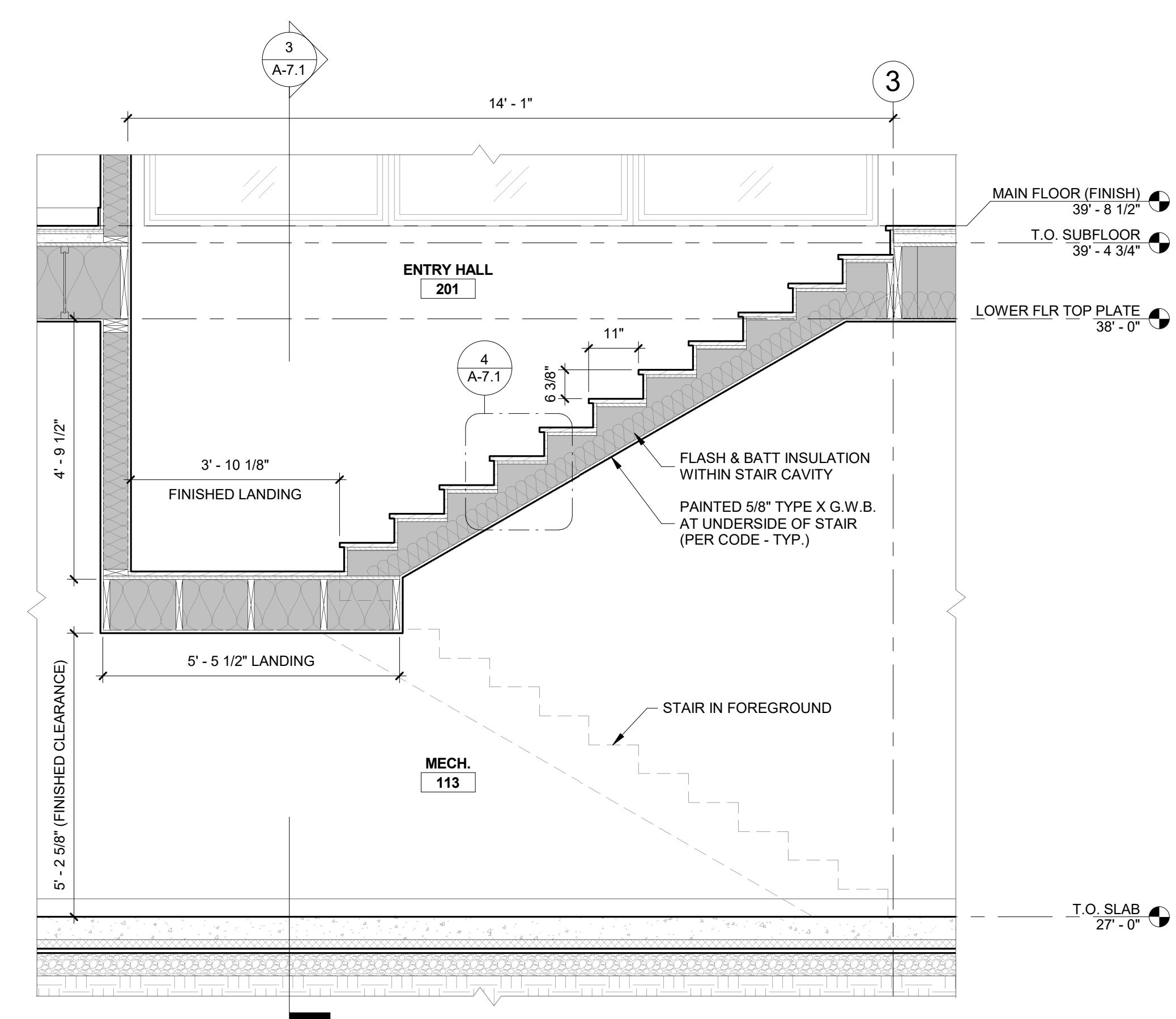
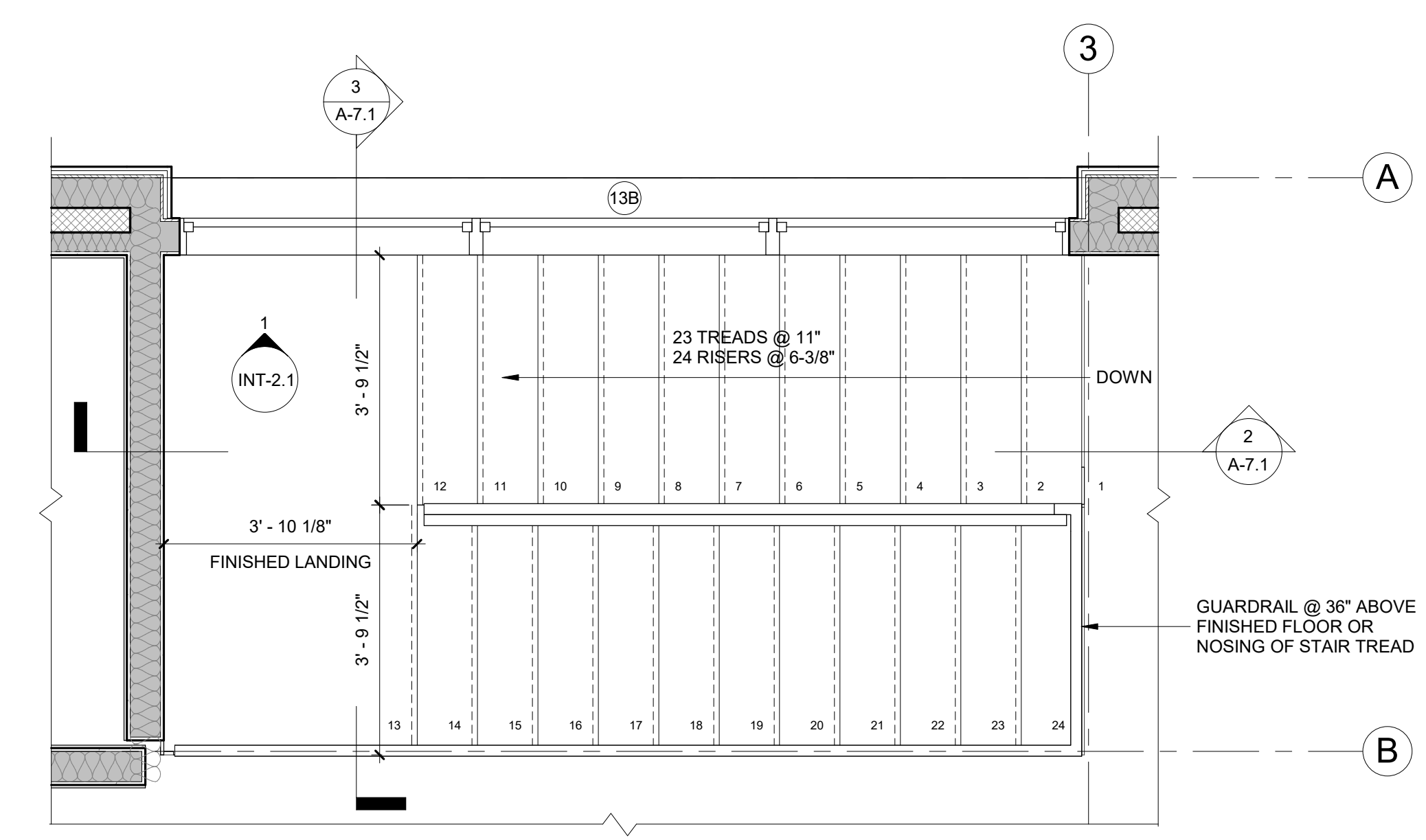
LUNDIN RESIDENCE

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Mercer Island, WA 98040

PERMIT SET
STAIR DETAILS

A-7.1

PLOT DATE: 1/21/2019 3:50:31 PM



GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

CRITERIA

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
2. DESIGN LOADING CRITERIA

ROOF SNOW LOAD	30 PSF
FLOOR LIVE LOAD (RESIDENTIAL)	40 PSF
FLOOR LIVE LOAD (RESIDENTIAL EXTERIOR DECKS AND BALCONIES)	60 PSF
GUARDRAILS/BALCONY RAILS (ONE OR TWO UNIT DWELLING)	200 LBS OR 50 PLF

WIND

ANALYSIS PROCEDURE: ASCE 7-10 CHAPTER 27 "PART II - ENCLOSED SIMPLE DIAPHRAGM"

RISK CATEGORY II

110 MPH

EXPOSURE "C"

TOPOGRAPHIC FACTOR Kzt = 1.0

WIND BASE SHEAR, NORTH/SOUTH Vw = 24.6 K

WIND BASE SHEAR, EAST/WEST Vw = 50.7 K

EARTHQUAKE

ANALYSIS PROCEDURE: IBC "EQUIVALENT LATERAL FORCE PROCEDURE"

SEISMIC DESIGN CATEGORY (SDC) = D

RISK CATEGORY = II

SEISMIC SITE CLASS = D

IMPORTANCE FACTOR Ie = 1.0

MAPPED MCE Ss = 1.41; S1 = 0.55

DESIGN ACCELERATION Sds = 0.94; Sd1 = 0.55

SEISMIC RESISTING SYSTEM: WOOD PANEL BEARING SHEAR WALL, R = 6.5

SEISMIC BASE SHEAR, Vs = 33.4 K
3. LATERAL LOADS ARE TRANSFERRED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE SHEAR WALLS. FORCES ARE BASED ON THE TRIBUTARY AREA FOR EACH SHEAR WALL AND ARE CARRIED BY THE SHEAR WALLS TO THE FOUNDATION.
4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THEIR WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. WHERE INFORMATION ON THE DRAWINGS IS IN CONFLICT WITH THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. DO NOT SCALE THE DRAWINGS.
9. ALL STRUCTURAL SYSTEMS WHICH ARE COMPOSED OF FIELD ERECTED COMPONENTS SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
10. SHOP DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL AND GLUED LAMINATED MEMBERS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.
11. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED. A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR REVIEW.
12. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.
13. SPECIAL INSPECTION: SHALL BE SUPERVISED BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER IN ACCORDANCE WITH SECTION 1704 OF THE SEATTLE BUILDING CODE AND THE PROJECT SPECIFICATIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND THE SEATTLE DCI. ANY MATERIALS WHICH FAIL TO MEET PROJECT SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
14. SPECIAL INSPECTION: CONCRETE CONSTRUCTION, STRUCTURAL STEEL FABRICATION AND ERECTION (INCLUDING FIELD WELDING AND HIGH-STRENGTH FIELD BOLTING), EXPANSION BOLTS AND EPOXY GROUTED INSTALLATIONS SHALL BE SUPERVISED IN ACCORDANCE WITH IBC SECTION 1704 AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET PROJECT SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

GEOTECHNICAL

15. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND GEOTECHNICAL ENGINEER. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED UNDER COLUMNS OR WALLS ABOVE.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE GEOTECHNICAL REPORT.

THE STRUCTURAL DESIGN IS BASED ON THE FOLLOWING VALUES FROM THE REFERENCED GEOTECHNICAL REPORT:

ALLOWABLE SOIL PRESSURE	3000 PSF
LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)	50 PCF/50 PCF
SEISMIC SURCHARGE PRESSURE (RESTRAINED/UNRESTRAINED)	7H PSF
PASSIVE SOIL PRESSURE (FACTOR OF SAFETY OF 1.5 INCLUDED)	300 PCF
COEFFICIENT OF FRICTION (FACTOR OF SAFETY OF 1.5 INCLUDED)	0.30
16. GEOTECHNICAL REPORT REFERENCE: #10-202 BY PANGEO INCORPORATED
17. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301. CONSTRUCTION TOLERANCES SHALL NOT EXCEED THOSE LISTED IN ACI 117. CONCRETE SHALL ATTAIN A 28 DAY STRENGTH OF Fc = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 BAGS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS (BEFORE THE ADDITION OF ADMIXTURES). THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.55 FOR FOOTINGS AND 0.45 FOR ALL SLABS AND EXPOSED CONCRETE UNLESS OTHERWISE NOTED.

THE MINIMUM AMOUNT OF CEMENT AND THE MAXIMUM SLUMP MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE SEATTLE DCI FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE CONCRETE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER/CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. CHEMICAL ADMIXTURES AND FLY ASH SHALL CONFORM TO ASTM C494 AND C618 RESPECTIVELY. FLY ASH PERCENTAGE OF TOTAL CEMENTITIOUS MATERIAL SHALL NOT EXCEED 20%. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY TO CONTRACT DOCUMENTS. CONTRACTOR MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR ENTRAINED WITH AN AIR ENTRAINING AGENT CONFORMING TO ASTM C260. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14 TABLE 19.3.3.1. ALL CONCRETE EXPOSED TO THE WEATHER AND ALL GARAGE SLABS-ON-GRADE SHALL OBTAIN A 28-DAY STRENGTH Fc OF 3,000 PSI IN ACCORDANCE WITH ACI 318 TABLE 19.3.2.1 AND IBC SECTION 1904.1. THIS INCREASE IN REQUIRED STRENGTH IS FOR DURABILITY ONLY (SPECIAL INSPECTION IS NOT REQUIRED).
18. REINFORCING STEEL SHALL CONSIST OF #4 BARS CONFORMING TO ASTM A615 GRADE 40, fy = 40,000 PSI, #5 BARS CONFORMING TO ASTM A615, GRADE 60, fy = 60,000 PSI AND SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT 48 BAR DIAMETERS, 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS, LAP 2'-0" MINIMUM. PROVIDE (2) #4 MIN. U.N.O. TRIM BARS AROUND ALL OPENINGS IN CONCRETE WALLS OR SLABS EXTENDING 2'-0" PAST CORNERS, TYPICAL.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO REINFORCING BARS SHALL BE "WET-SET" INTO THE CONCRETE. PROVIDE A 20' LONG REBAR GROUND (UFER GROUND) PER ELECTRICIAN.
19. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED SURFACES EXPOSED TO EARTH (i.e. WALLS BELOW GROUND) OR WEATHER (#6 BARS OR LARGER)	2"
SLABS AND WALLS (INTERIOR FACE)	1"
20. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:

WALL THICKNESS	VERTICAL BARS	HORIZONTAL BARS
6" WALLS	#4 @ 16" CURTAIN	#4 @ 12" CURTAIN
8" WALLS	#4 @ 16" CURTAIN	#4 @ 10" CURTAIN
21. NON-SHRINK GROUT SHALL BE NON-METALLIC CONFORMING TO ASTM C1107 AND BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (5000 PSI MINIMUM).
22. CONCRETE MAY BE PLACED BY THE "SHOTCRETE" METHOD, PROVIDED THE APPROVALS, TESTS, AND INSPECTIONS REQUIRED BY THE CITY OF MERCER ISLAND ARE OBTAINED. SHOTCRETE MATERIALS, EQUIPMENT, PROCEDURES, PROPORTIONS, BATCHING AND MIXING AND PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 506R, ACI 506.2 AND IBC SECTION 1908. SHOTCRETE AGGREGATE SIZE SHALL NOT EXCEED 3/8".

THE "SHOTCRETE" METHOD SHALL NOT BE USED WITHOUT MAKING SPECIAL ARRANGEMENTS THROUGH OWNER AND ENGINEER UNLESS STRUCTURAL DRAWINGS ARE SPECIFICALLY DETAILED TO ACCOMMODATE SHOTCRETING.

ANCHORAGE

23. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2 WEDGE ANCHOR", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3037 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAFMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.
24. SCREEN ANCHORS INTO CONCRETE SHALL BE "TITEN HD", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-2719 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAFMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL SCREEN ANCHOR INSTALLATION.
25. DRIVE PINS, SHOT PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE FASTENERS AS MANUFACTURED BY HILTI CORPORATION. WHEN CALLED FOR IN THE DRAWINGS, PROVIDE THE APPROPRIATE FASTENER AS NOTED IN THE TABLE BELOW FOR EACH GIVEN APPLICATION. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORTS NO. ESR-2264 FOR THE X-U FASTENERS AND ESR-2374 FOR THE X-CP FASTENERS. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3" TO NEAREST CONCRETE EDGE AND 4" CENTER TO CENTER SPACING. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAFMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES.

APPLICATION	FASTENER TYPE	ALLOWABLE SHEAR CAPACITY (LBS)	ALLOWABLE TENSION CAPACITY (LBS)
2x TREATED LUMBER TO CONCRETE (2000 PSI MIN)	X-CP 12 P8 S23 w/ 1.33" EMBED	250	175
2x LUMBER TO STRUCTURAL STEEL (3/16" MIN, A36 OR GR. 50)	X-U 52 MX PLUS R-23 WASHERS	250	175
26. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) INTO CONCRETE SHALL BE INSTALLED USING "AT-XP" ADHESIVE AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH IAFMO UES REPORT NO. ER-263, INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAFMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.

STEEL

27. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE LATEST EDITIONS OF THE A.I.S.C. SPECIFICATIONS AND CODES:

A. AISC - STEEL CONSTRUCTION MANUAL, 14TH EDITION

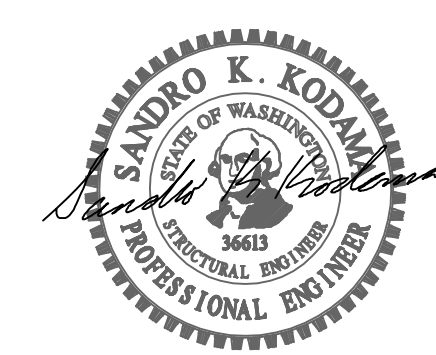
B. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
28. STRUCTURAL STEEL, WIDE FLANGE (W AND WT) SHAPES SHALL CONFORM TO ASTM A992, Fy = 50 KSI; ALL OTHER ROLLED SHAPES SHALL CONFORM TO ASTM A36, Fy = 36 KSI. STEEL PLATE SHALL CONFORM TO ASTM A36, Fy = 36 KSI. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, Fy = 35 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46 KSI. CONNECTION BOLTS SHALL CONFORM TO ASTM A307. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36, Fy = 36 KSI.
29. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
30. ALL A-325 CONNECTION BOLTS SHALL BE INSTALLED TO THE SNUG-TIGHT CONDITION PER AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A440 BOLTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. ALL NUTS SHALL CONFORM TO ASTM A563. ALL WASHERS SHALL CONFORM TO ASTM F436 OR ASTM F959 TYPE 325. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED.
31. ALL A-307 CONNECTION BOLTS SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF-LOCKING NUTS. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED.
32. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.W.S.) SHALL BE USED. WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING E70XX ELECTRODES. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED. SEE REINFORCING NOTE FOR MATERIAL REQUIREMENTS OF WELDED BARS. ALL WELDING OF STAINLESS STEEL SHALL USE E304 ELECTRODES WITH A GMW PROCESS. ALL WELDING SHALL BE PERFORMED BY WELDERS WITH AWS / W.A.B.O. CERTIFICATION WITH THE MATERIAL AND METHOD REQUIRED.

SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELDS SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELDING SHALL BE 3/16-INCH. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD ARROWS ARE SHOWN WHERE A FIELD WELD IS REQUIRED BY THE STRUCTURAL DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL DELIVERY AND ERECTION.



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DATE	1/8/2019

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PERMIT SET	1/8/2019

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GENERAL STRUCTURAL NOTES



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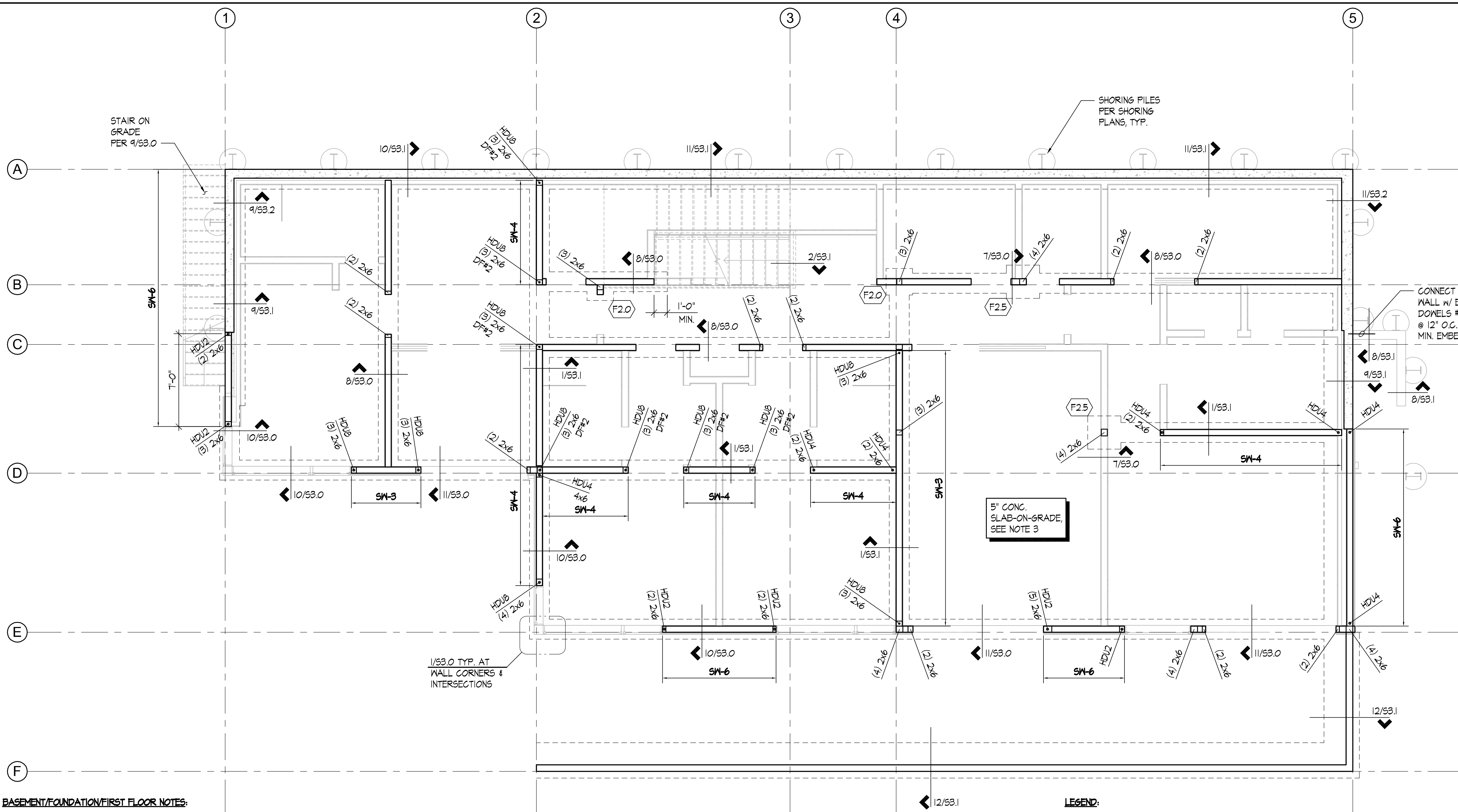
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4041 WEST MERCER WAY
MERCER ISLAND, WA 98040

PROJECT NO. 18689.01

FOUNDATION PLAN

S2.0



BASEMENT/FOUNDATION/FIRST FLOOR NOTES:

- ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEET S3.0 FOR TYPICAL CONCRETE AND FOUNDATION DETAILS. SEE SHEET S4.0 FOR TYPICAL WOOD DETAILS.
- SLAB-ON-GRADE SHALL BE 5" THICK CONCRETE REINFORCED WITH #4 @ 16" O.C. EACH WAY, U.O.N. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SUB-GRADE MOISTURE BARRIER AND ELEVATIONS, ETC.
- FOR SLAB-ON-GRADE JOINTS, SEE DETAIL 2/53.0.
- ALL WOOD BEARING ON UNPROTECTED CONCRETE, EXPOSED TO WEATHER, OR WITHIN 8" OF FINISHED GRADE SHALL BE PRESSURE-TREATED, U.O.N.
- FOR SILL PLATE ANCHOR BOLT LAYOUT TO CONCRETE FOUNDATION WALLS AND SLABS, SEE DETAIL 1/54.0.
- ALL BEARING AND SHEAR WALLS SHALL BE 2x6 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR U.O.N.
- POSTS INDICATED ARE AT THIS LEVEL. ALL POSTS NOT SPECIFIED SHALL BE (2) 2x U.O.N. SOLID SAWN MEMBERS OF EQUIVALENT SIZE MAY BE SUBSTITUTED FOR BUILT-UP MEMBERS (SUCH AS A 4x6 FOR (3) 2x4).
- Fx.x INDICATES SPREAD FOOTING TYPE, SEE 12/53.0 FOR SCHEDULE.
- SN-x INDICATES SHEAR WALL AT THIS LEVEL. SEE SHEAR WALL SCHEDULE 8/54.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS. ALL EXTERIOR WALLS SHALL BE SHEATHED PER SN-6 CRITERIA U.O.N.
- HD1x INDICATES HOLDDOWN TO CONCRETE FOUNDATION WALLS OR FOOTINGS. SEE 12/54.0 FOR HOLDDOWN DETAIL. USE MIN. (2) 2x POST U.O.N.

LEGEND:

- INDICATES SPREAD FOOTING SEE 12/53.0 FOR SCHEDULE
- INDICATES FOOTING
- INDICATES FOUNDATION WALL, WOOD BEARING WALL OR SHEAR WALL ABOVE FLOOR FRAMING
- INDICATES WOOD BEARING WALL OR SHEAR WALL ABOVE. SEE PLAN NOTES 7 & 10
- INDICATES NON-BEARING/ NON-SHEAR WALL ABOVE. SEE 1 & 2/54.1 FOR CONNECTION DETAILS
- INDICATES MULTIPLE STUD POST ABOVE. SEE PLAN NOTE 8
- INDICATES HOLDDOWN TYPE AT THIS LEVEL. SEE PLAN NOTE 11

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

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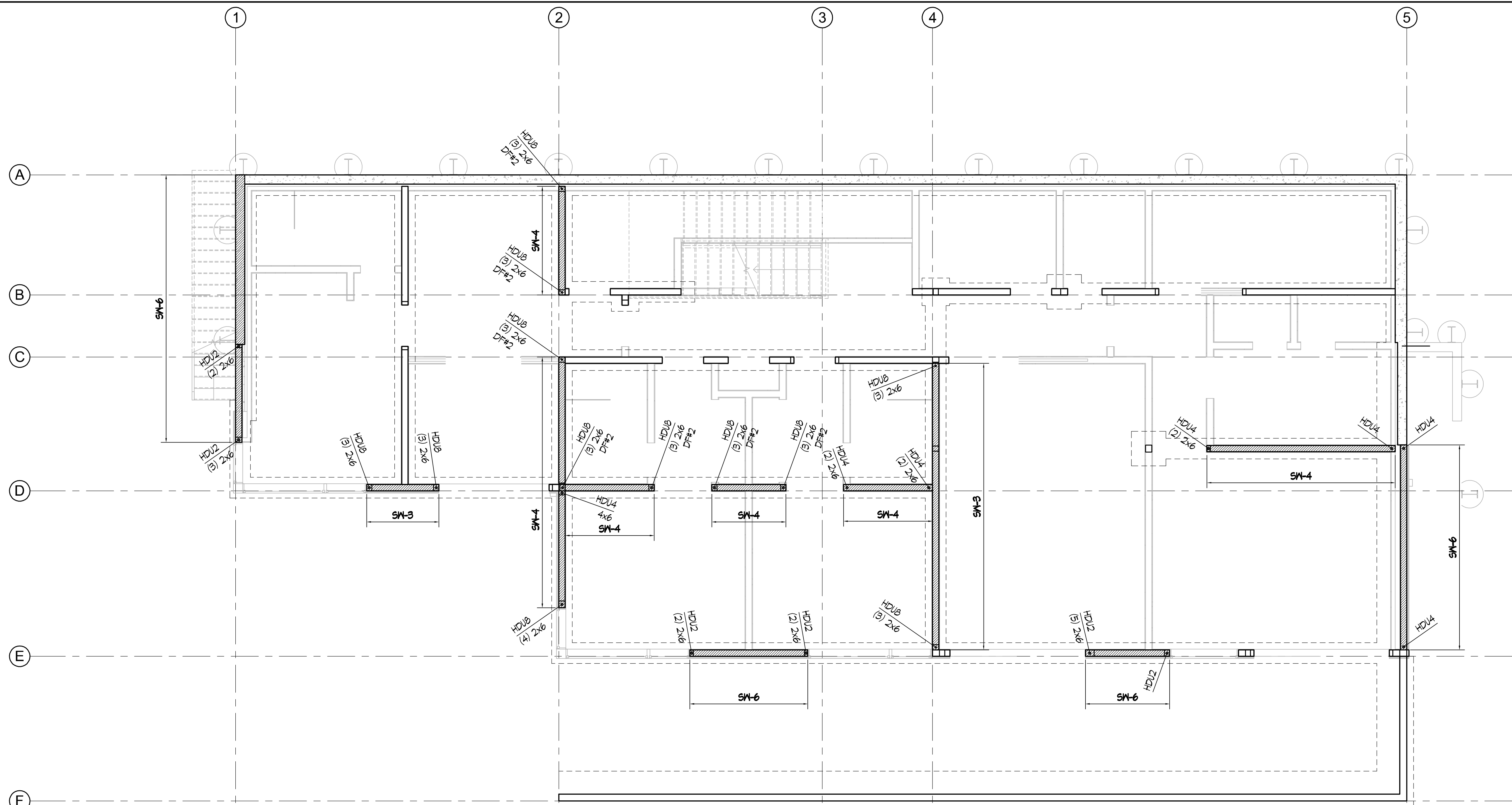
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PROJECT NO. 18689.01

FOUNDATION SHEAR WALL PLAN

S2.0A

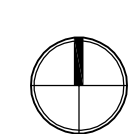


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- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEET S3.0 FOR TYPICAL CONCRETE AND FOUNDATION DETAILS. SEE SHEET S4.0 FOR TYPICAL WOOD DETAILS.
- SLAB-ON-GRADE SHALL BE 5" THICK CONCRETE REINFORCED WITH #4 @ 16" O.C. EACH WAY, U.O.N. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SUB-GRADE MOISTURE BARRIER AND ELEVATIONS, ETC.
- FOR SLAB-ON-GRADE JOINTS, SEE DETAIL 2/53.0.
- ALL WOOD BEARING ON UNPROTECTED CONCRETE, EXPOSED TO WEATHER, OR WITHIN 8" OF FINISHED GRADE SHALL BE PRESSURE-TREATED, U.O.N.
- FOR SILL PLATE ANCHOR BOLT LAYOUT TO CONCRETE FOUNDATION WALLS AND SLABS, SEE DETAIL 1/54.0.
- ALL BEARING AND SHEAR WALLS SHALL BE 2x6 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR U.O.N.
- POSTS INDICATED ARE AT THIS LEVEL. ALL POSTS NOT SPECIFIED SHALL BE (2) 2x U.O.N. SOLID SAWN MEMBERS OF EQUIVALENT SIZE MAY BE SUBSTITUTED FOR BUILT-UP MEMBERS (SUCH AS A 4x6 FOR (3) 2x4).
- Fx.x INDICATES SPREAD FOOTING TYPE, SEE 12/53.0 FOR SCHEDULE.
- SW-x INDICATES SHEAR WALL AT THIS LEVEL. SEE SHEAR WALL SCHEDULE 3/54.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS. ALL EXTERIOR WALLS SHALL BE SHEATHED PER SW-6 CRITERIA U.O.N.
- HDUx INDICATES HOLDDOWN TO CONCRETE FOUNDATION WALLS OR FOOTINGS. SEE 12/54.0 FOR HOLDDOWN DETAIL. USE MIN. (2) 2x POST U.O.N.

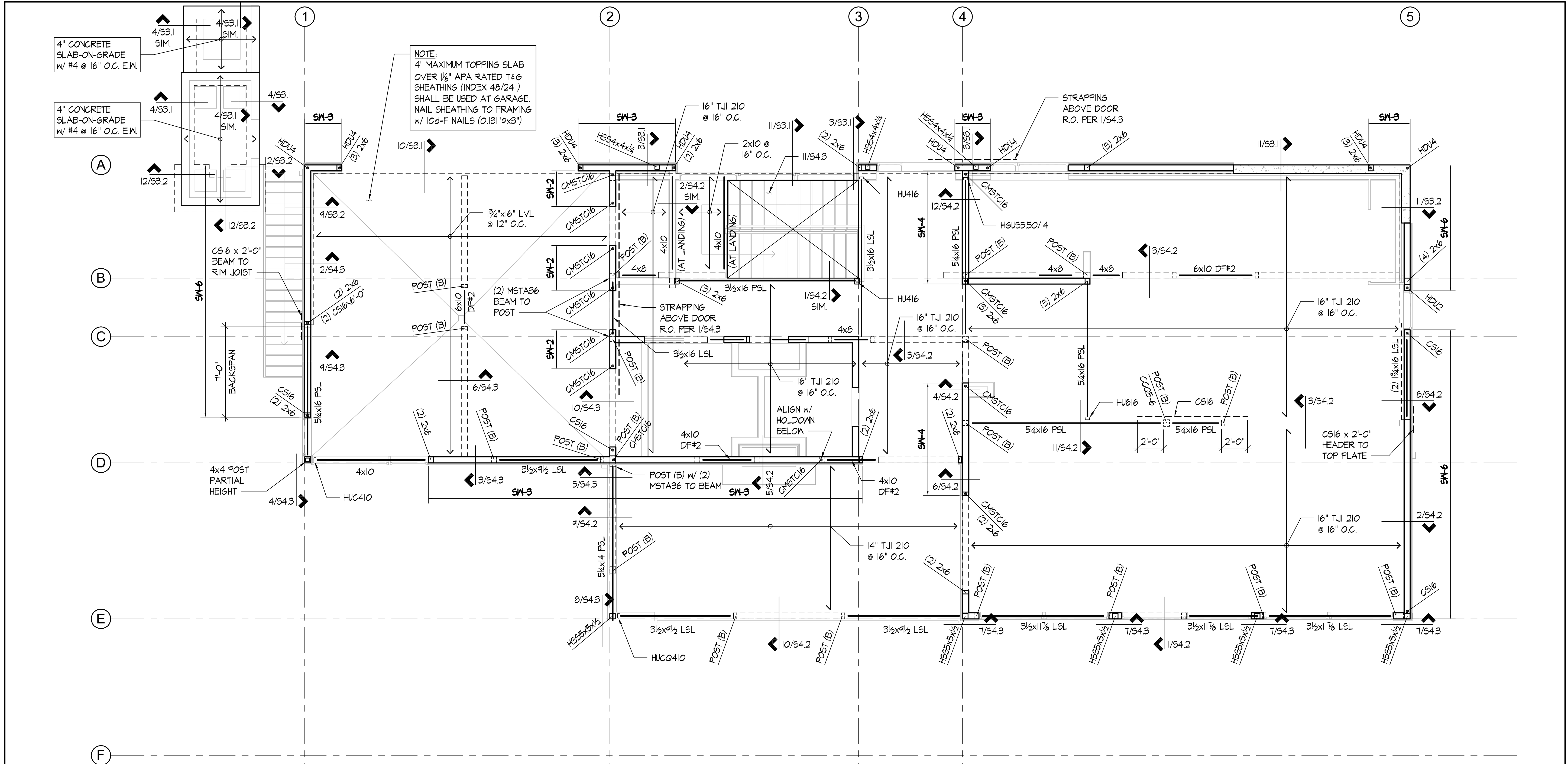
LEGEND:

- Fx.x INDICATES SPREAD FOOTING SEE 12/53.0 FOR SCHEDULE
- INDICATES FOOTING
- INDICATES FOUNDATION WALL, WOOD BEARING WALL OR SHEAR WALL ABOVE FLOOR FRAMING
- INDICATES WOOD BEARING WALL OR SHEAR WALL ABOVE. SEE PLAN NOTES 7 & 10
- INDICATES NON-BEARING/ NON-SHEAR WALL ABOVE. SEE 1 & 2/54.1 FOR CONNECTION DETAILS
- (3) 2x INDICATES MULTIPLE STUD POST ABOVE. SEE PLAN NOTE 8
- HDUx INDICATES HOLDDOWN TYPE AT THIS LEVEL. SEE PLAN NOTE 11



FOUNDATION SHEAR WALL PLAN

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



FLOOR FRAMING NOTES:

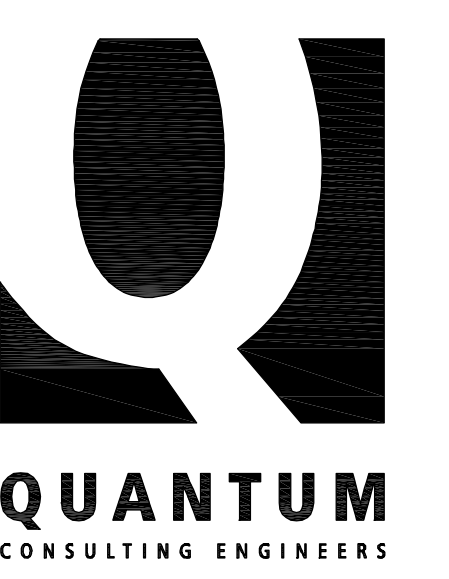
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- SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEETS S4.0, S4.1 AND S4.2 FOR TYPICAL WALL DETAILS.
- TYPICAL FLOOR FRAMING CONSISTS OF 23/32" APA RATED T&G SHEATHING (INDEX 48/24), LAID FACE GRAIN PERPENDICULAR OVER 16" TJI 210 JOISTS AT 16" O.C. HANG TJI JOISTS WITH ITS TOP FLANGE HANGERS TYPICAL AT FLUSH BEAMS, U.O.N.
- NAIL FLOOR SHEATHING TO FRAMING WITH 8d NAILS (0.131" x 2.5" LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS (UNBLOCKED). SEE DETAIL 6/S4.0.
- ALL BEARINGS AND SHEAR WALLS SHALL BE 2x6 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR U.O.N.
- POSTS INDICATED ARE AT THIS LEVEL. ALL POSTS NOT SPECIFIED SHALL BE (2) 2x U.O.N. SOLID SAWN MEMBERS OF EQUIVALENT SIZE MAY BE SUBSTITUTED FOR BUILT-UP MEMBERS (SUCH AS A 4x6 FOR (3) 2x4).
- PROVIDE SOLID OR BUILT-UP WOOD POSTS BENEATH THE ENDS OF ALL FLOOR BEAMS AND ALL POSTS ABOVE FOR FULL BEARING. PROVIDE BLKG. AT JOISTS PER DETAIL 7/S4.1.
- ALL HEADERS NOT SHOWN ON PLAN SHALL BE (2) 2x8 FOR EXTERIOR BEARING WALLS AND (2) 2x8 FOR INTERIOR BEARING WALLS. SEE 10/S4.1 FOR HEADER DETAIL.
- FOR TOP PLATE SPLICE SEE DETAIL 6/S4.1.
- ALIGN A JOIST OR JOIST BLOCKING OVER THE FULL LENGTH OF ALL BEARING/SHEAR WALLS. SEE 8/S4.0 FOR SPECIAL SHEAR WALL BLOCKING REQUIREMENTS.
- SM-x INDICATES SHEAR WALL AT THIS LEVEL. SEE SHEAR WALL SCHEDULE 8/S4.0 FOR SHEATHING, BLOCKING, NAILING, AND ANCHOR BOLT REQUIREMENTS. ALL EXTERIOR WALLS SHALL BE SHEATHED PER SM-6 CRITERIA U.O.N.
- HDUx INDICATES HOLDDOWN TO CONCRETE FOUNDATION WALLS OR FOOTINGS. SEE 12/S4.0 FOR HOLDDOWN DETAIL. USE MIN. (2) 2x POST U.O.N.
- CSxx INDICATES HOLDDOWN STRAP TO FRAMING BELOW WALL. SEE 10/S4.0 FOR STRAP HOLDDOWN DETAIL AT FLOOR-TO-FLOOR AND BEAM SUPPORTING SHEAR WALL END. USE MIN. (2) 2x POST U.O.N.

LEGEND:

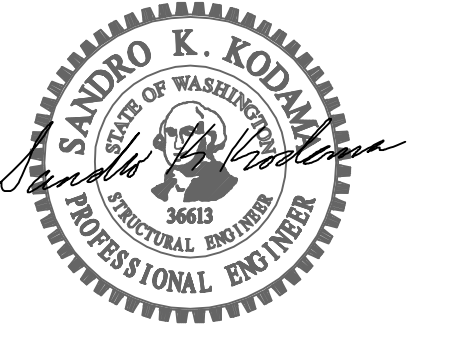
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- INDICATES EXTENT OF FRAMING
- SM-x** INDICATES SHEAR WALL TYPE AT THIS LEVEL. SEE PLAN NOTE II
- INDICATES WOOD BEARING WALL OR SHEAR WALL ABOVE. SEE PLAN NOTES 5 & 11
- INDICATES WOOD BEARING WALL OR SHEAR WALL BELOW.
- INDICATES NON-BEARING/ NON-SHEAR WALL ABOVE. SEE I & 2/S4.1 FOR CONNECTION DETAILS
- INDICATES HEADER MEMBER. SEE PLAN NOTE 8
- INDICATES MULTIPLE STUD POST ABOVE. SEE PLAN NOTE 6
- INDICATES HOLDDOWN TYPE AT THIS LEVEL. SEE PLAN NOTE 12 & 13

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

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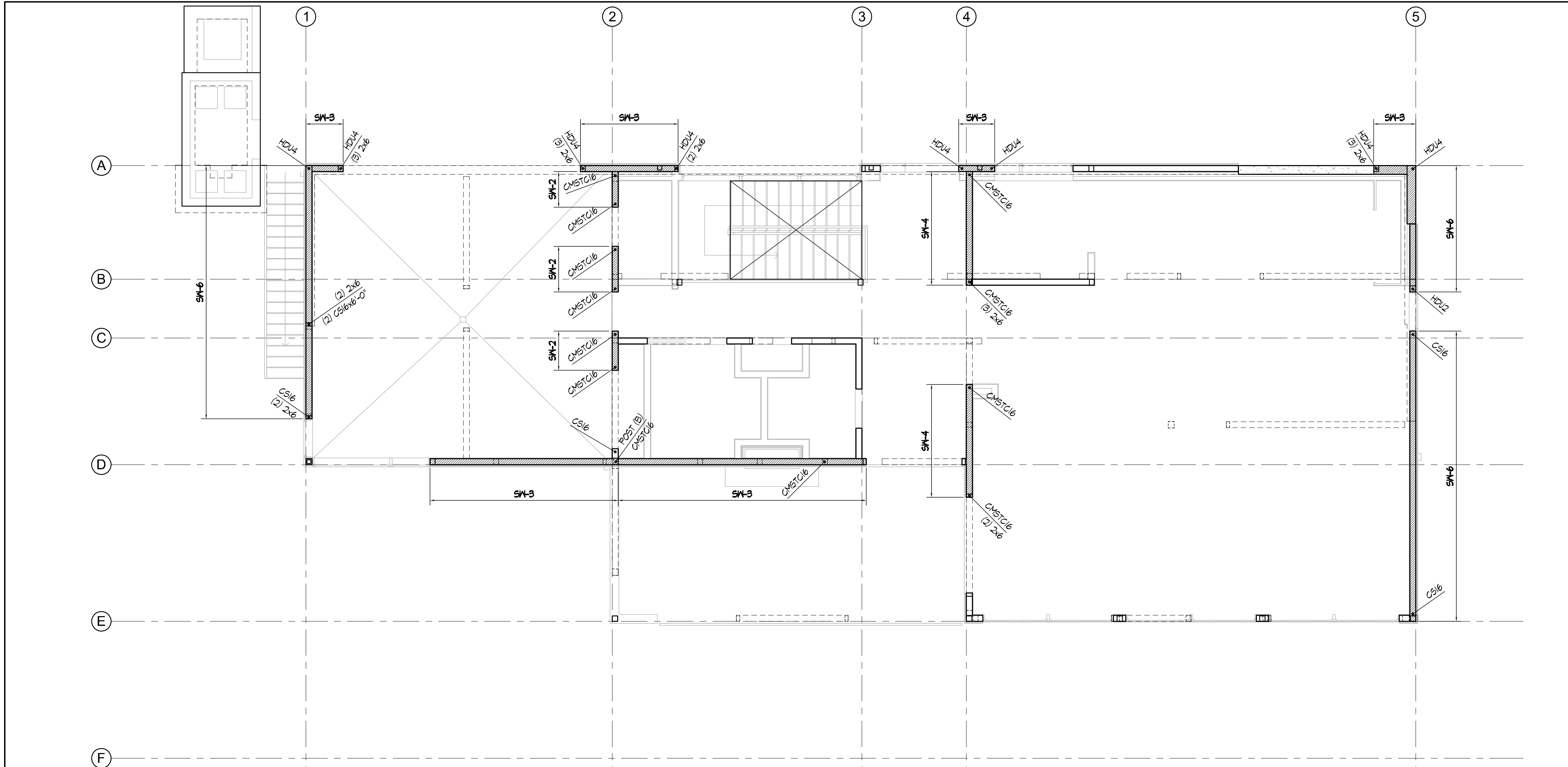
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CHECKED	SKK
DATE	1/8/2019
REVISIONS	
PERMIT SET	1/8/2019

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MERCER ISLAND, WA 98040

PROJECT NO. 18689.01

MAIN FLOOR FRAMING PLAN



FLOOR FRAMING NOTES:

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3. TYPICAL FLOOR FRAMING CONSISTS OF 23/32" APA RATED T&G SHEATHING (INDEX 4B/24), LAID FACE GRAIN PERPENDICULAR OVER 16" TJI 210 JOISTS AT 16" O.C. HANG TJI JOISTS WITH ITS TOP FLANGE HANGERS TYPICAL AT FLUSH BEAMS, U.O.N.
4. NAIL FLOOR SHEATHING TO FRAMING WITH 8d NAILS (0.131" x 2.5" LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS (UNBLOCKED). SEE DETAIL 6/S4.0.
5. ALL BEARING AND SHEAR WALLS SHALL BE 2x6 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR U.O.N.
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13. CSxx INDICATES HOLDDOWN STRAP TO FRAMING BELOW WALL. CMSTCxx SEE 10/S4.0 FOR STRAP HOLDOWN DETAIL AT FLOOR-TO-FLOOR AND BEAM SUPPORTING SHEAR WALL END. USE MIN. (2) 2x POST U.O.N.

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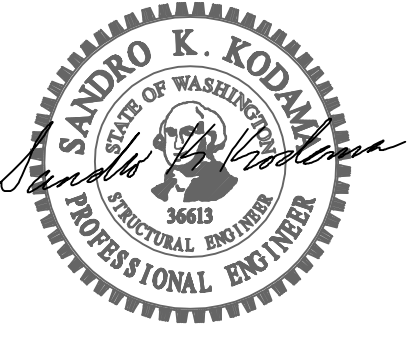
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MAIN FLOOR SHEAR WALL PLAN
SCALE: 1/4" = 1'-0"

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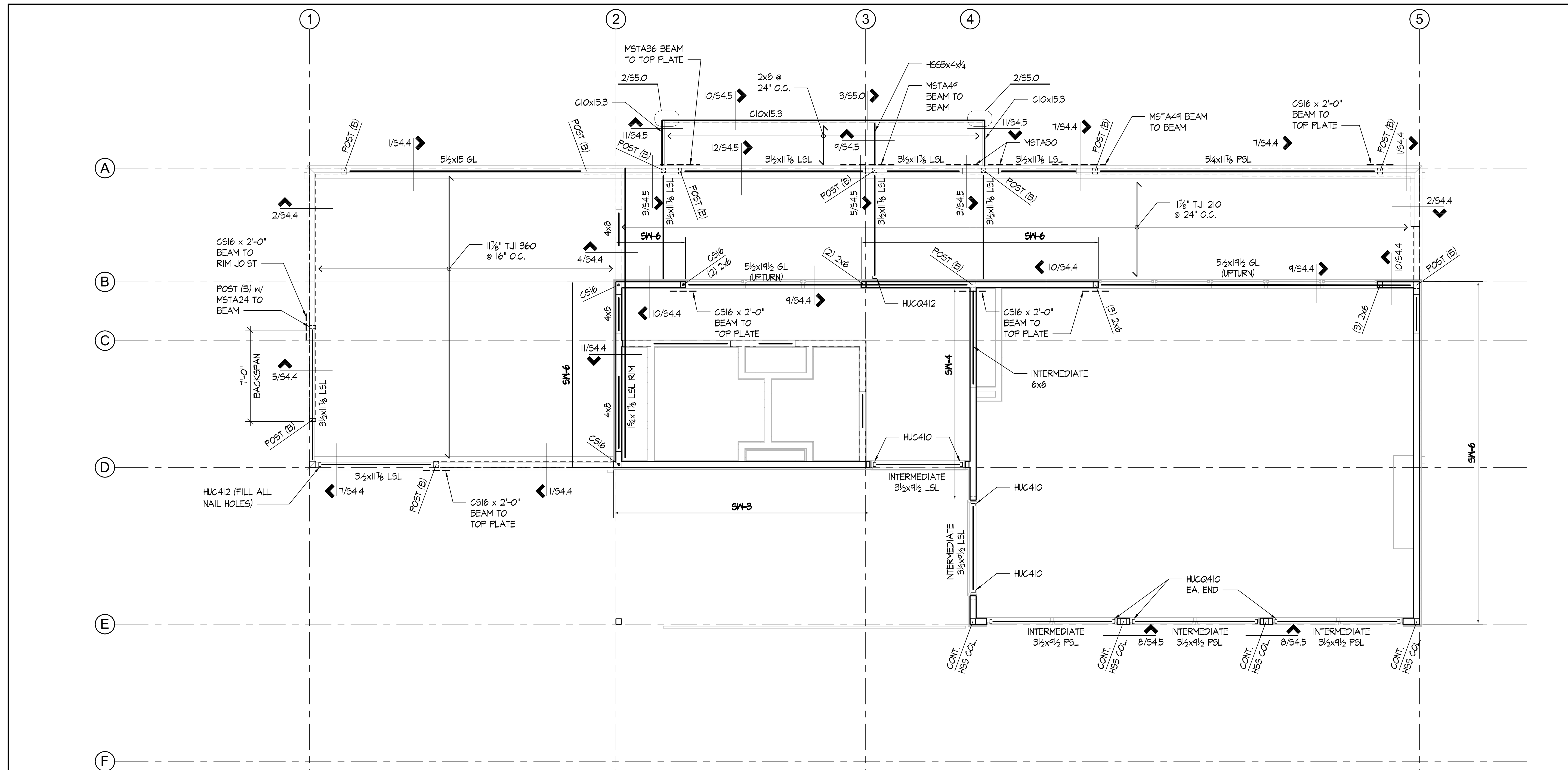
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MAIN FLOOR SHEAR WALL PLAN



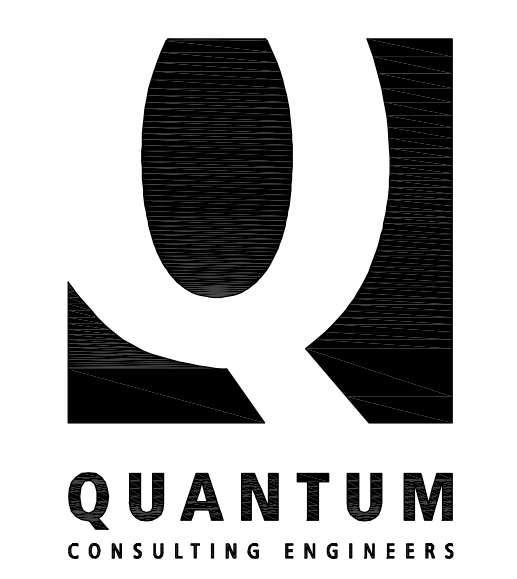
ROOF FRAMING NOTES:

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4. NAIL ROOF SHEATHING TO FRAMING WITH 8d NAILS (0.131"φ x 2.5" LONG) AT 6" O.C. AT ALL PANELS EDGES AND 8d NAILS AT 12" O.C. AT INTERMEDIATE FRAMING MEMBERS (UNBLOCKED). SEE DETAIL 6/54.0.
5. ALL BEARING AND SHEAR WALLS SHALL BE 2x6 @ 16" O.C. INTERIOR AND 2x6 @ 16" O.C. EXTERIOR U.O.N.
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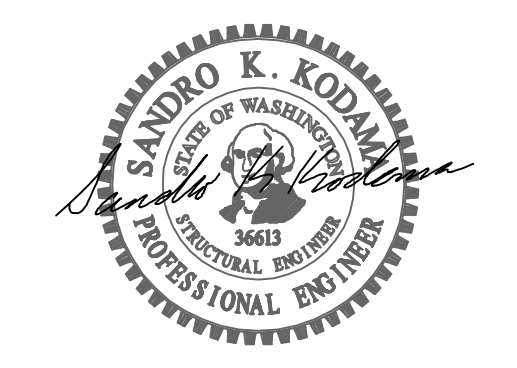
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**LOW ROOF / CLERE
STORY FRAMING PLAN**
SCALE: 1/4" = 1'-0"



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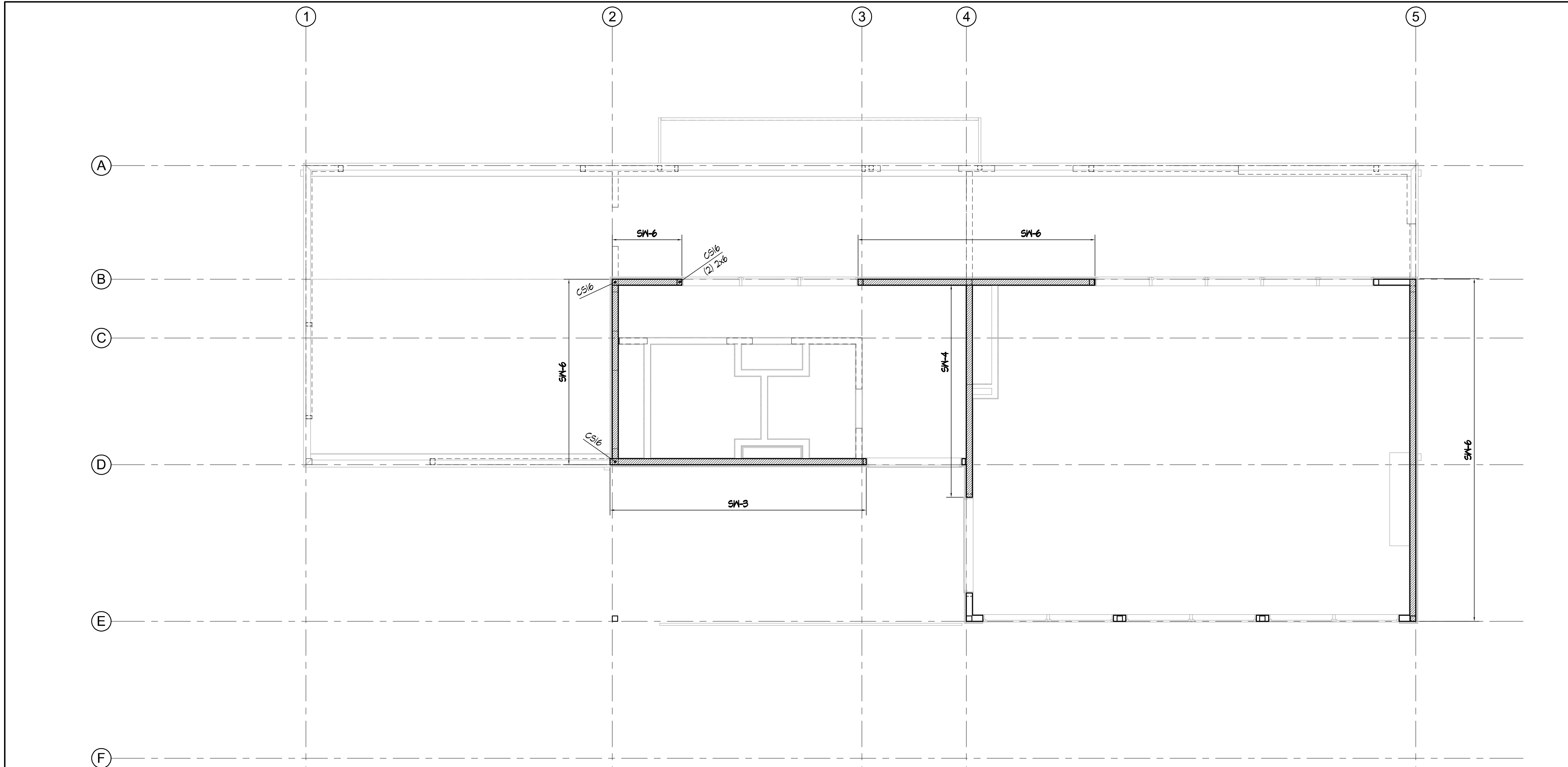
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RESIDENCE**
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PROJECT NO. 18689.01

LOW ROOF /
CLERESTORY
FRAMING PLAN



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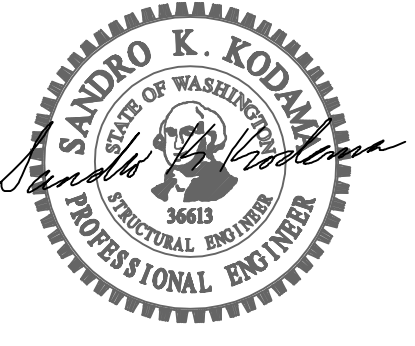
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**LOW ROOF / CLERE
STORY SHEAR WALL PLAN**
SCALE: 1/4" = 1'-0"

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PROJECT NO. 18689.01

LOW ROOF /
CLERESTORY SHEAR
WALL PLAN



QUANTUM
CONSULTING ENGINEERS

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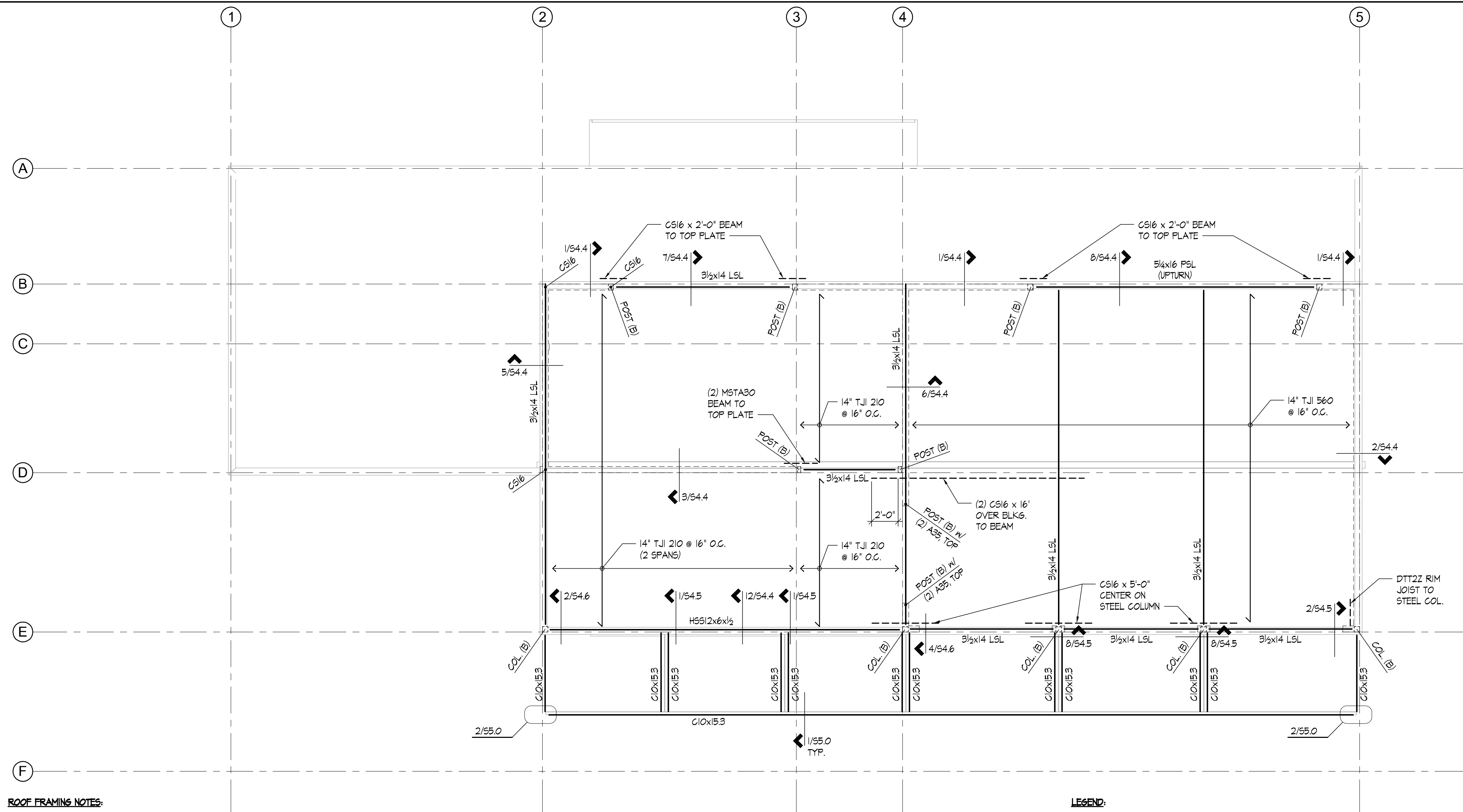
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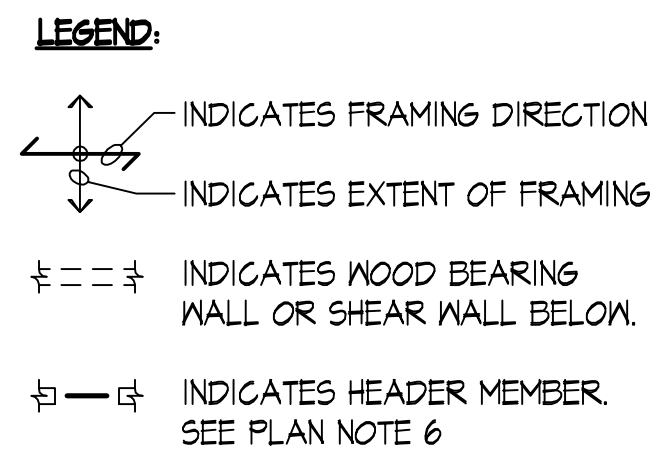
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PROJECT NO. 18669.01

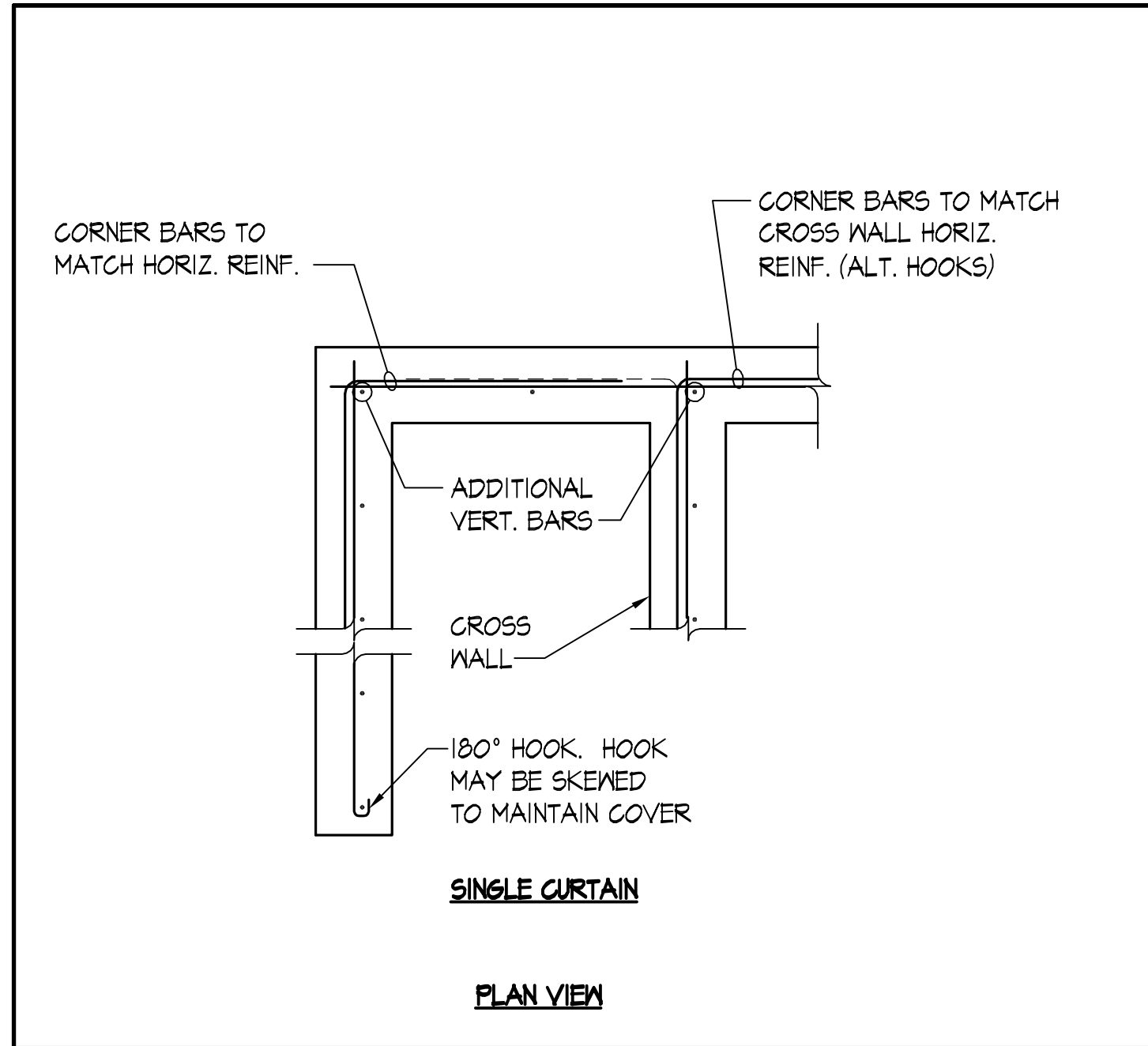
UPPER ROOF FRAMING PLAN



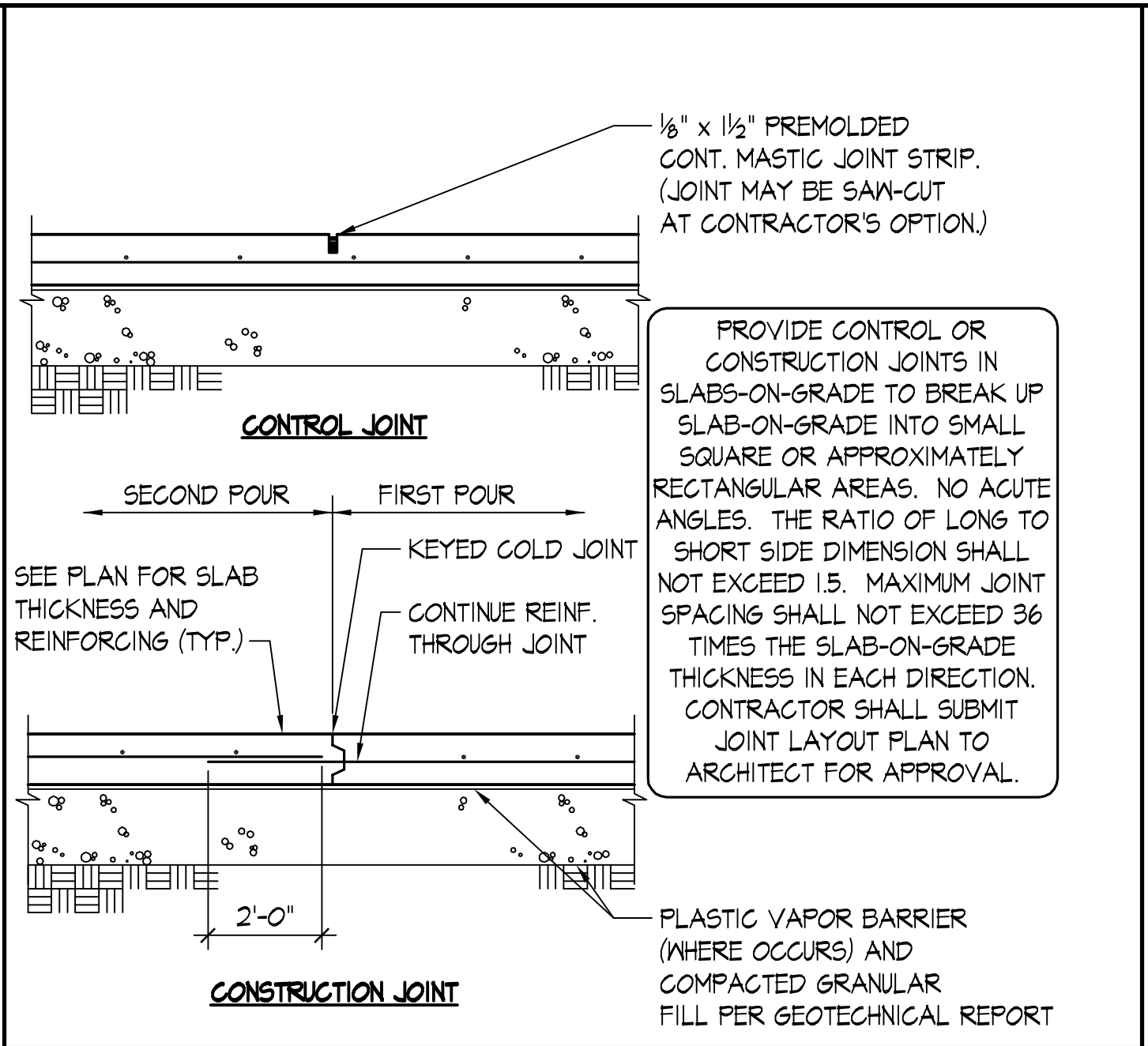
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 - PROVIDE SOLID BLOCKING BETWEEN EACH ROOF JOIST AT SUPPORTS. PROVIDE AN H2.5A CLIP AT EVERY MEMBER TO TOP PLATE.
 - ALL HEADERS NOT SHOWN ON PLAN SHALL BE (2) 2x8 FOR EXTERIOR BEARING WALLS AND (2) 2x8 FOR INTERIOR BEARING WALLS. SEE 10/S4.1 FOR HEADER DETAIL.
 - PROVIDE SOLID OR BUILT-UP WOOD POSTS BENEATH THE ENDS OF ALL ROOF BEAMS FOR FULL BEARING.
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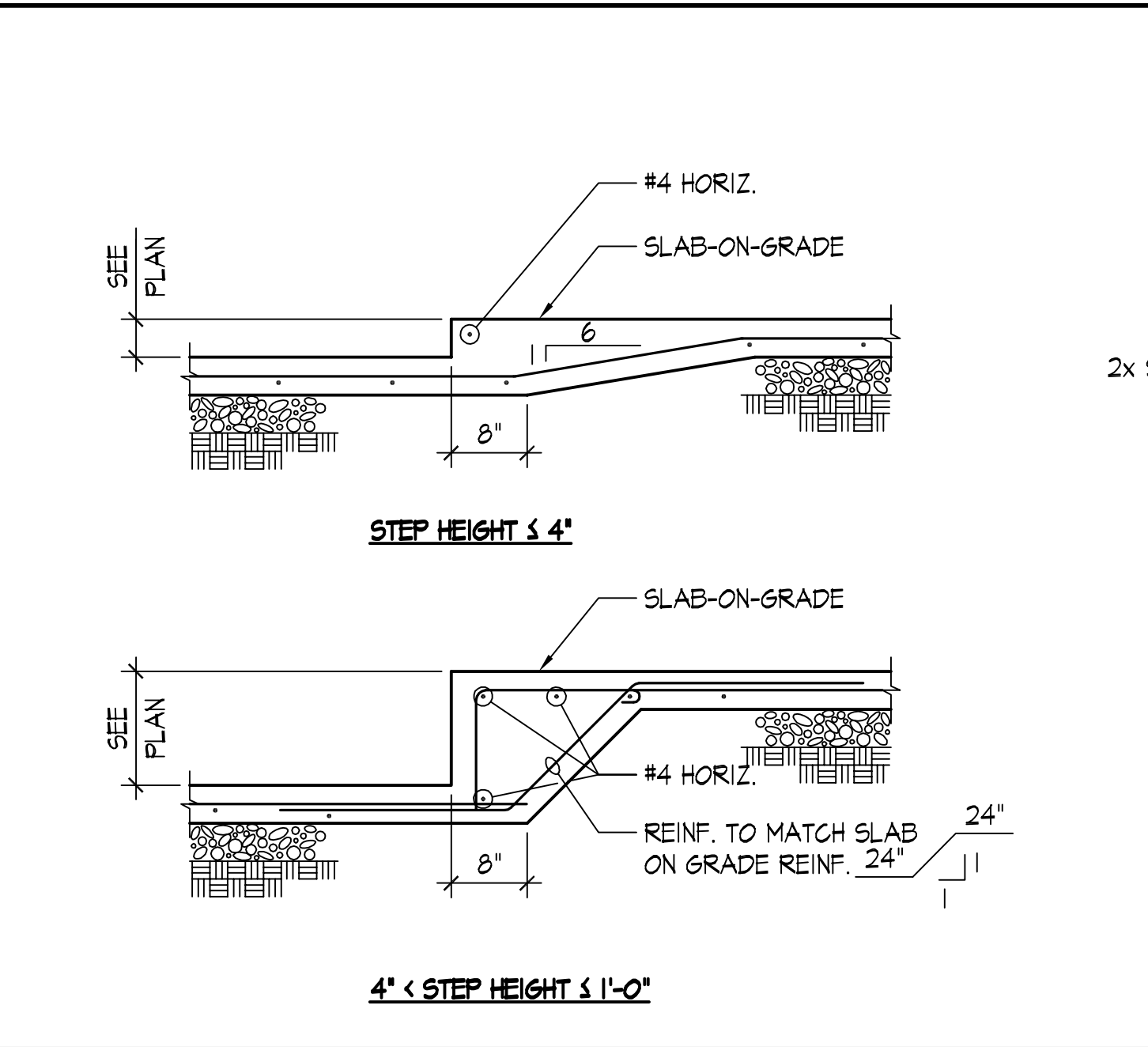
UPPER ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



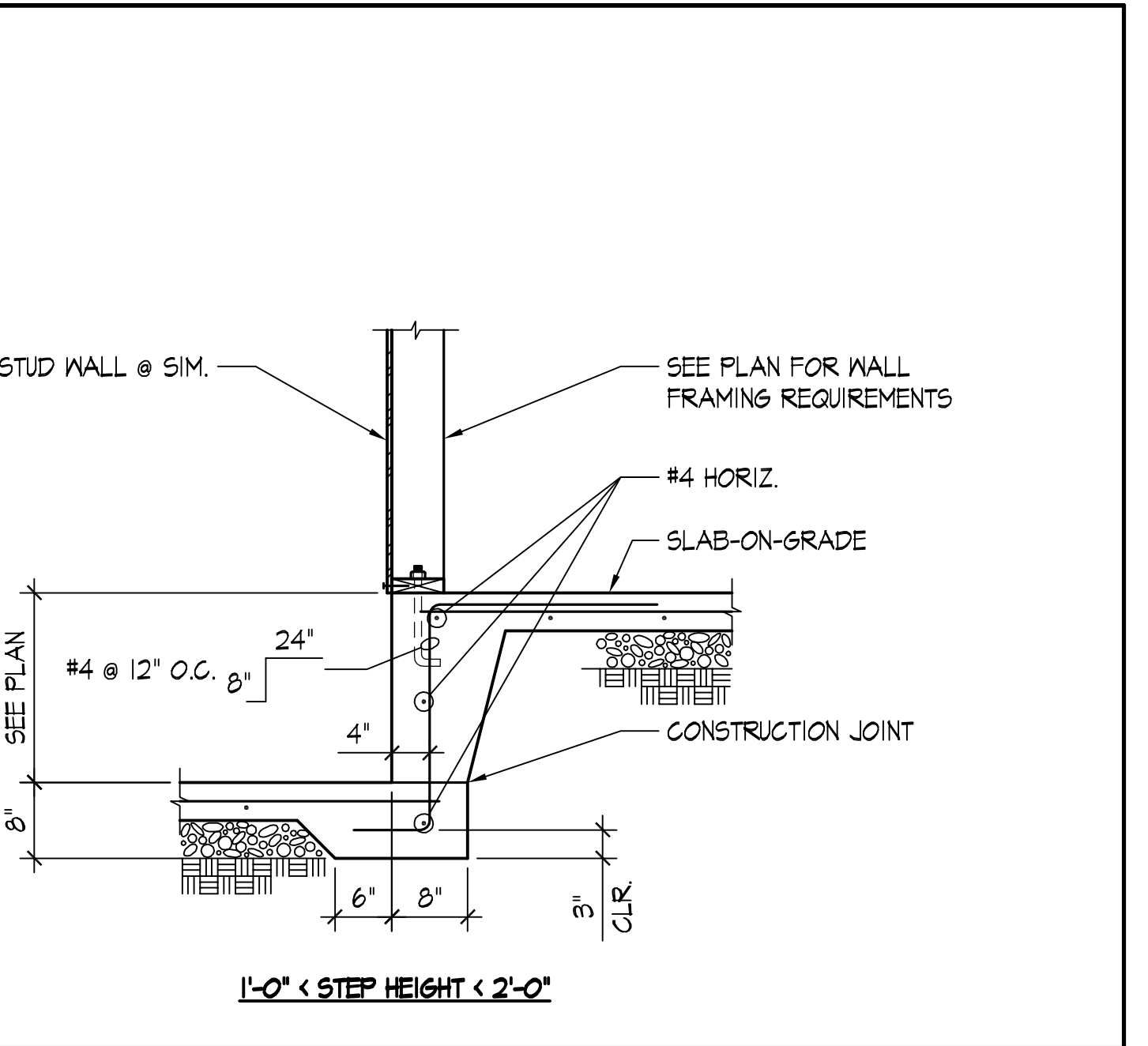
TYPICAL CORNER BAR AND WALL END BAR ARRANGEMENT AT CONCRETE WALLS OR FOOTINGS SCALE: NONE 1



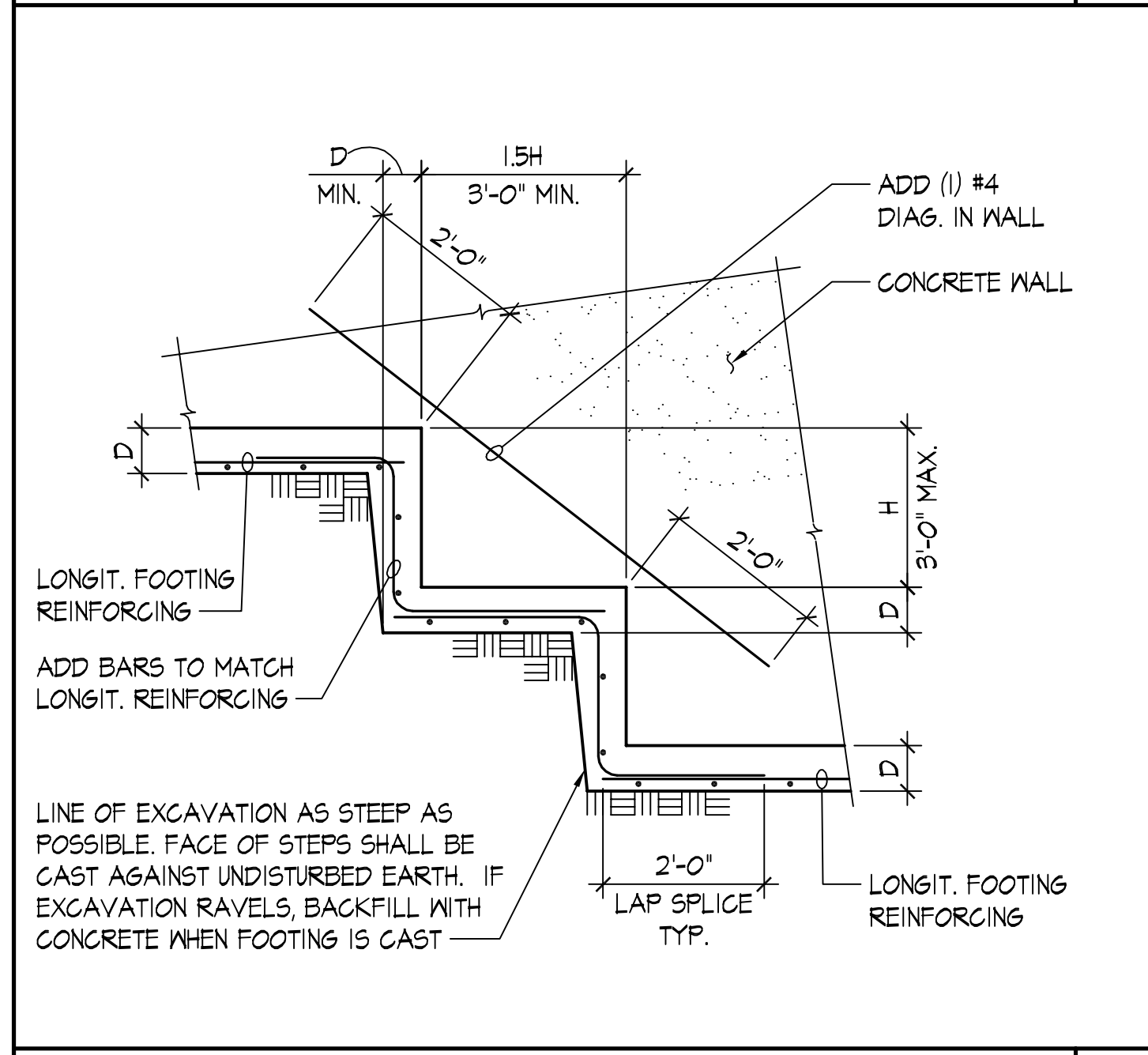
TYPICAL SLAB-ON-GRADE JOINTS SCALE: NONE 2



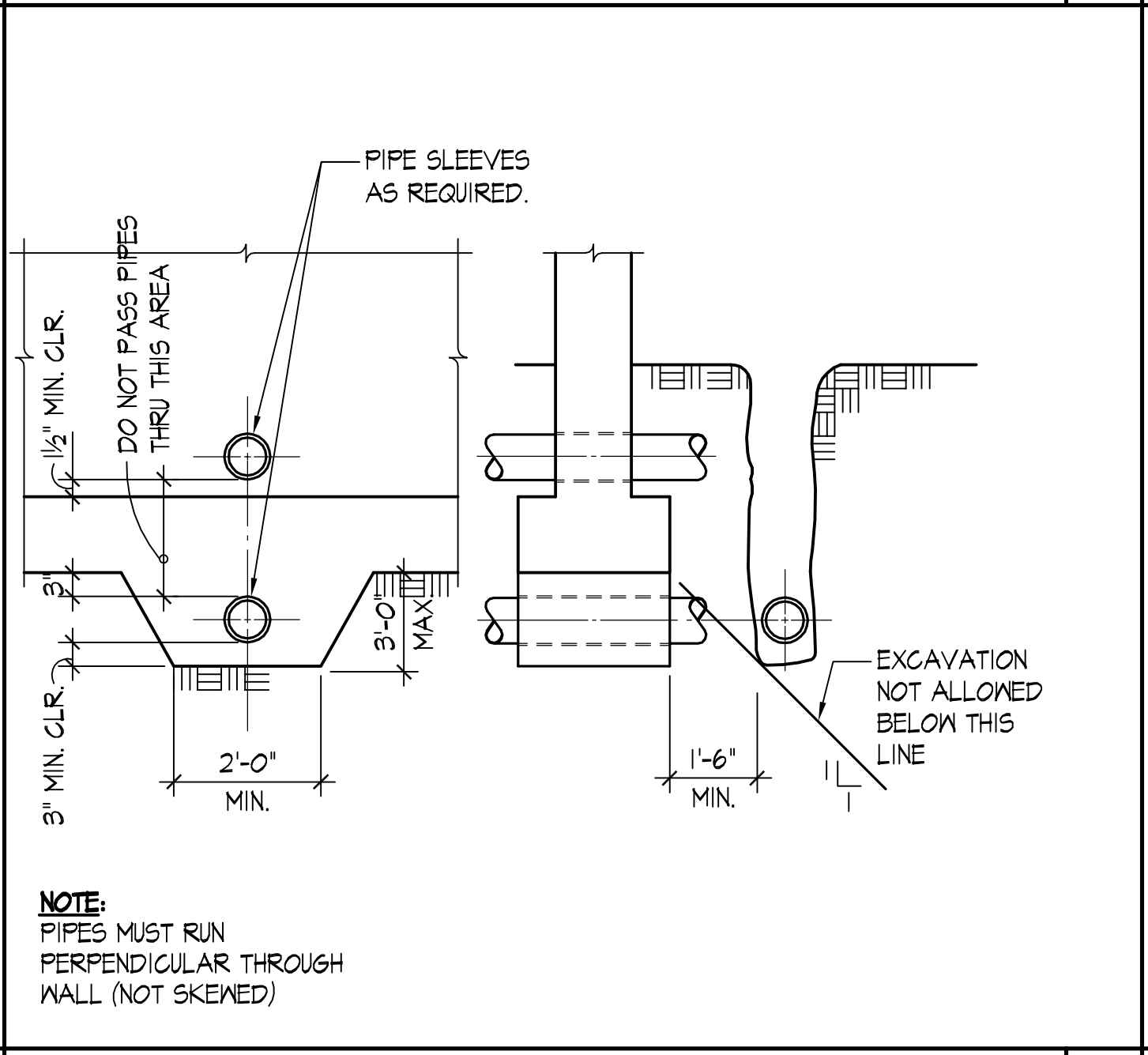
TYPICAL SLAB-ON-GRADE STEP DETAIL SCALE: NONE 4



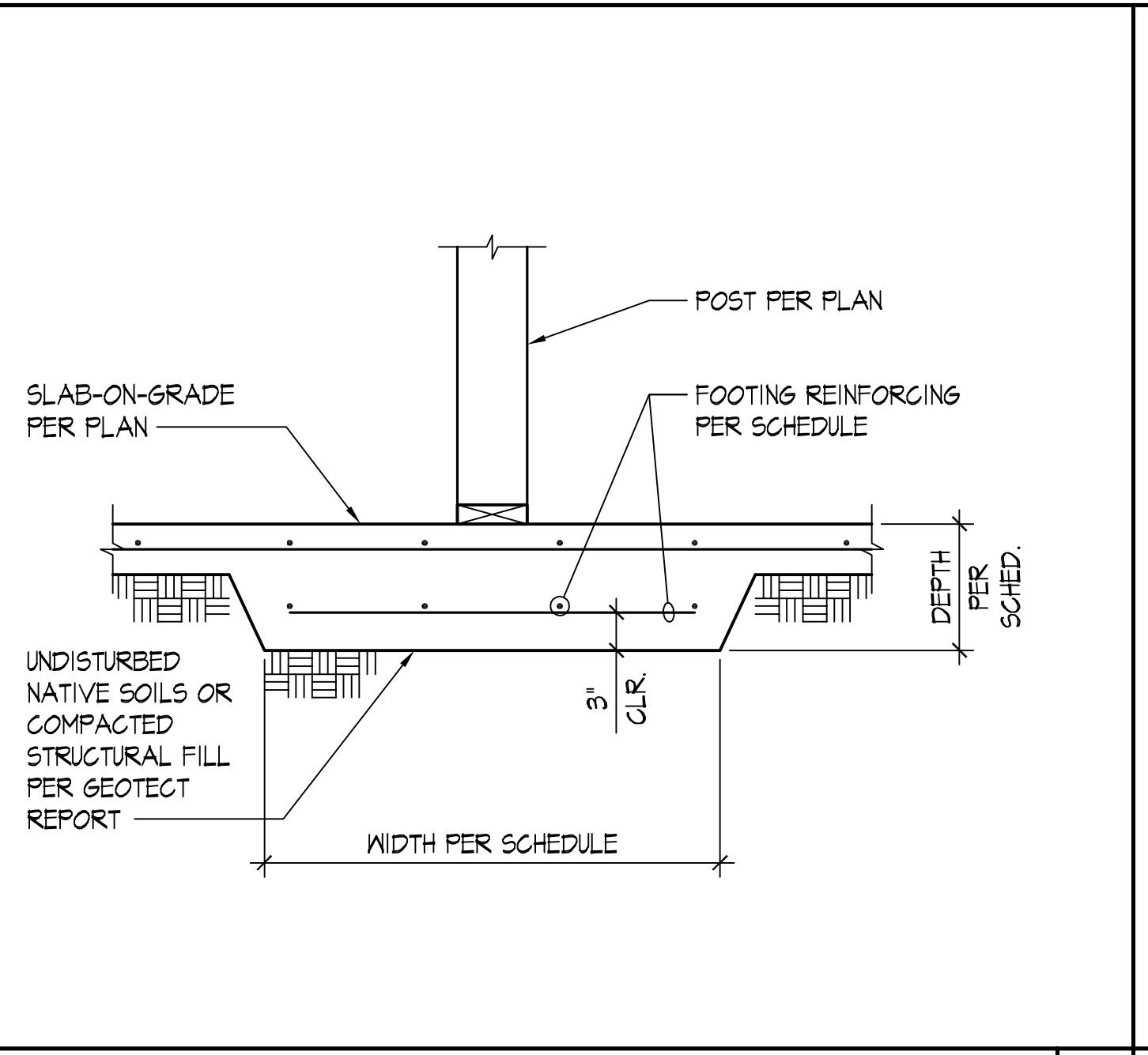
TYPICAL INTERIOR WALL FOUNDATION (THICKENED SLAB) SCALE: NONE 4



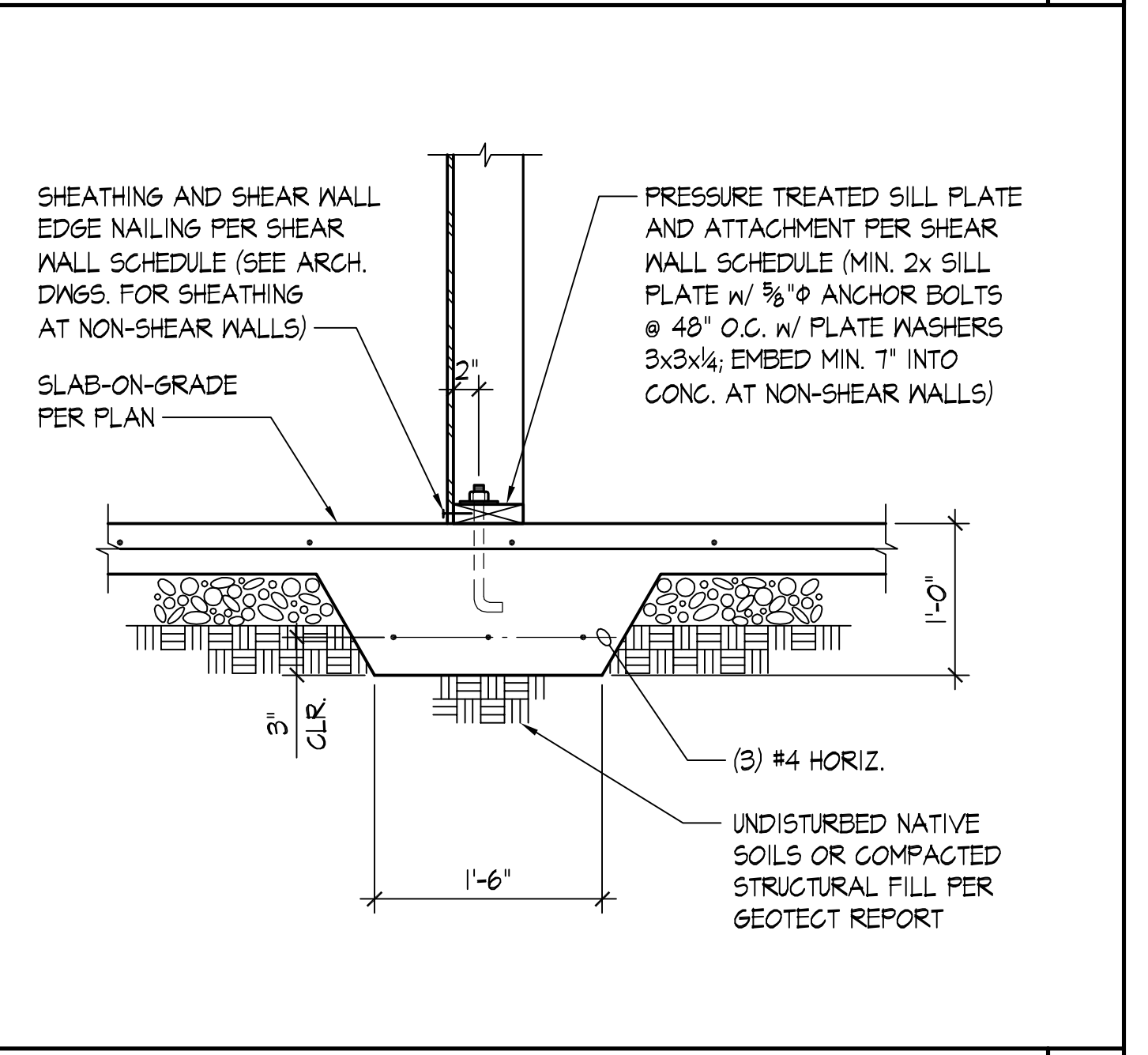
TYPICAL STEPPED FOOTING SCALE: NONE 5



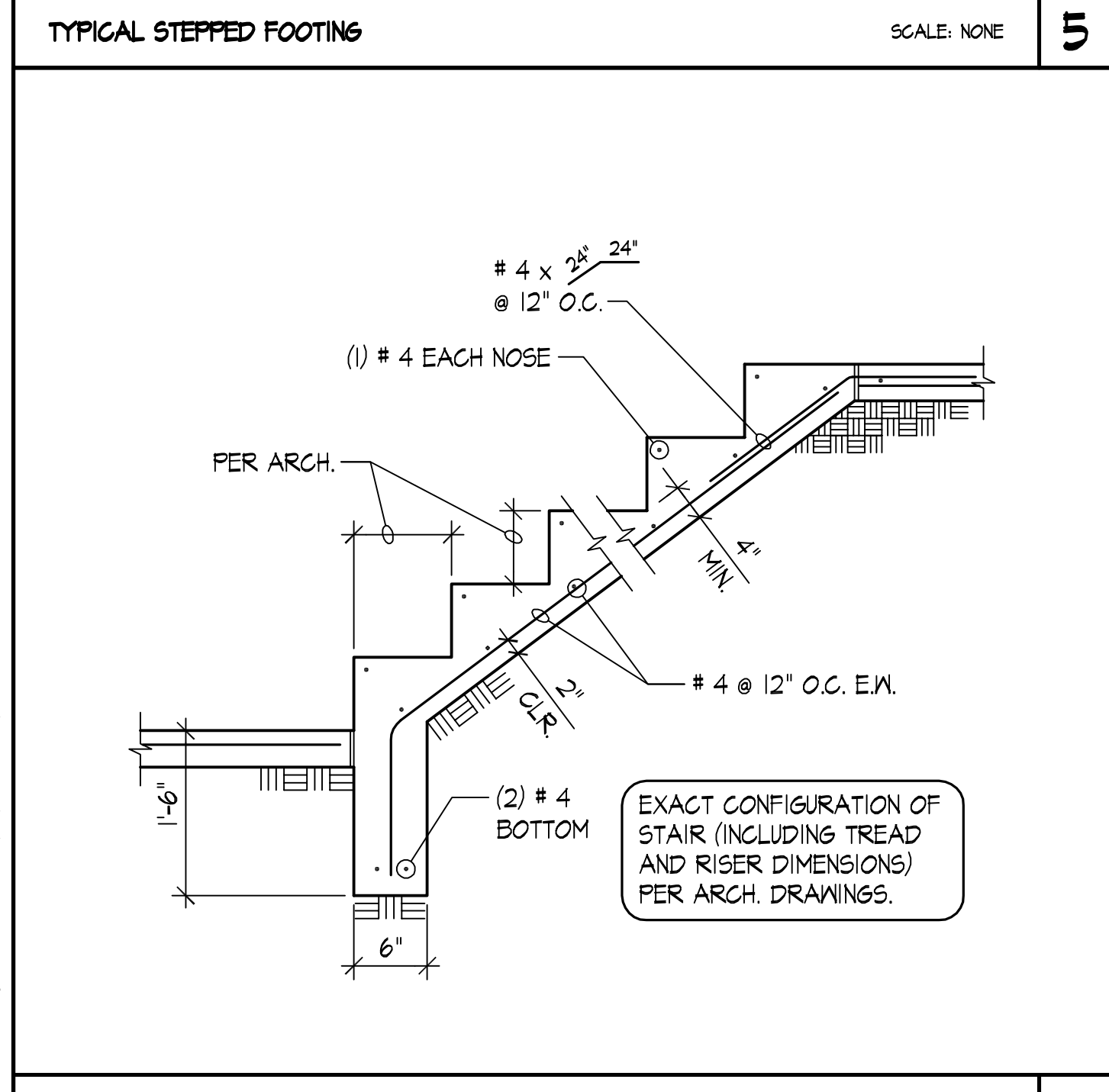
TYPICAL PIPE AND TRENCH LOCATIONS PERPENDICULAR TO FOOTING SCALE: NONE 6



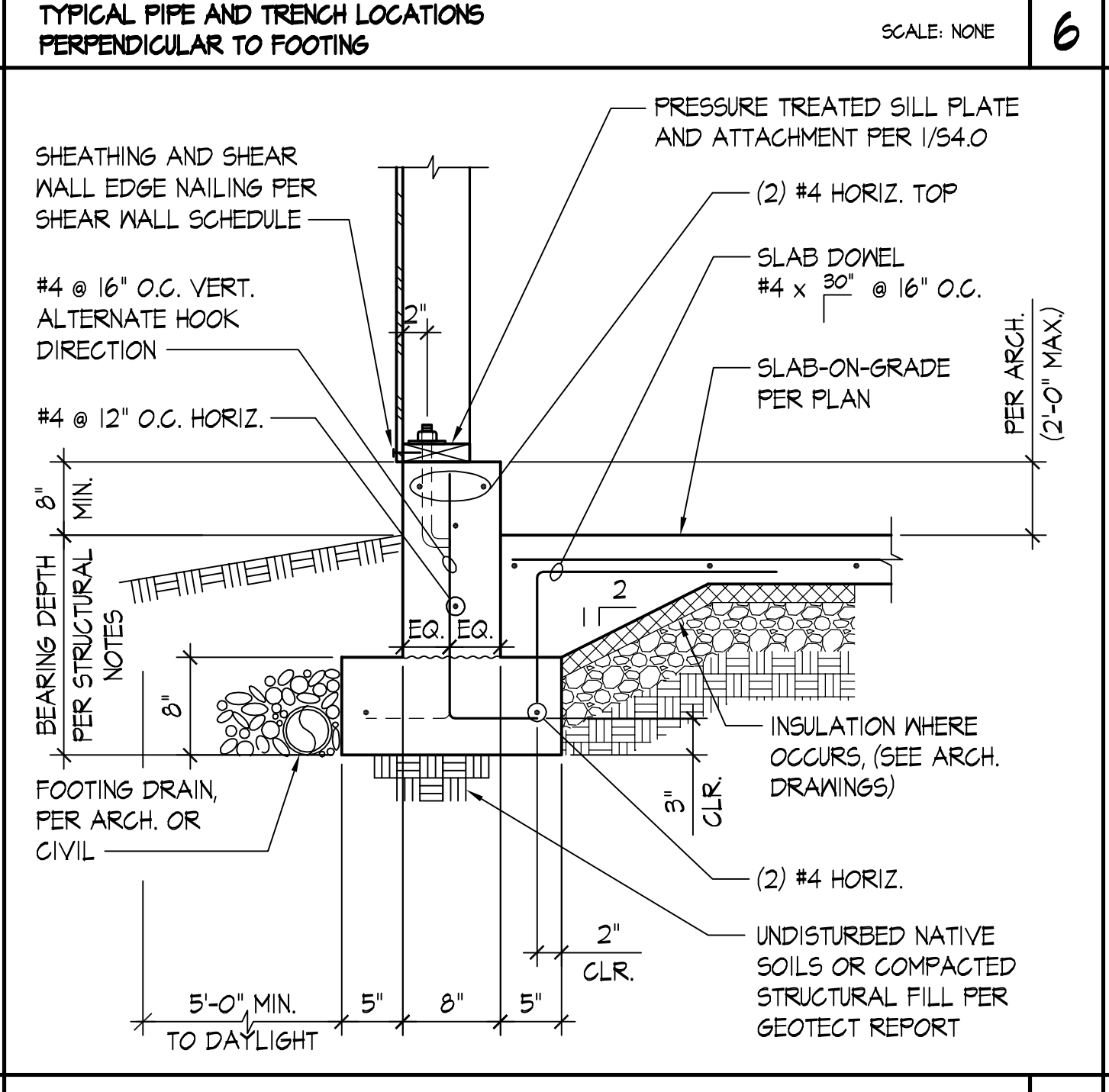
TYPICAL SPREAD FOOTING AT SLAB-ON-GRADE SCALE: NONE 7



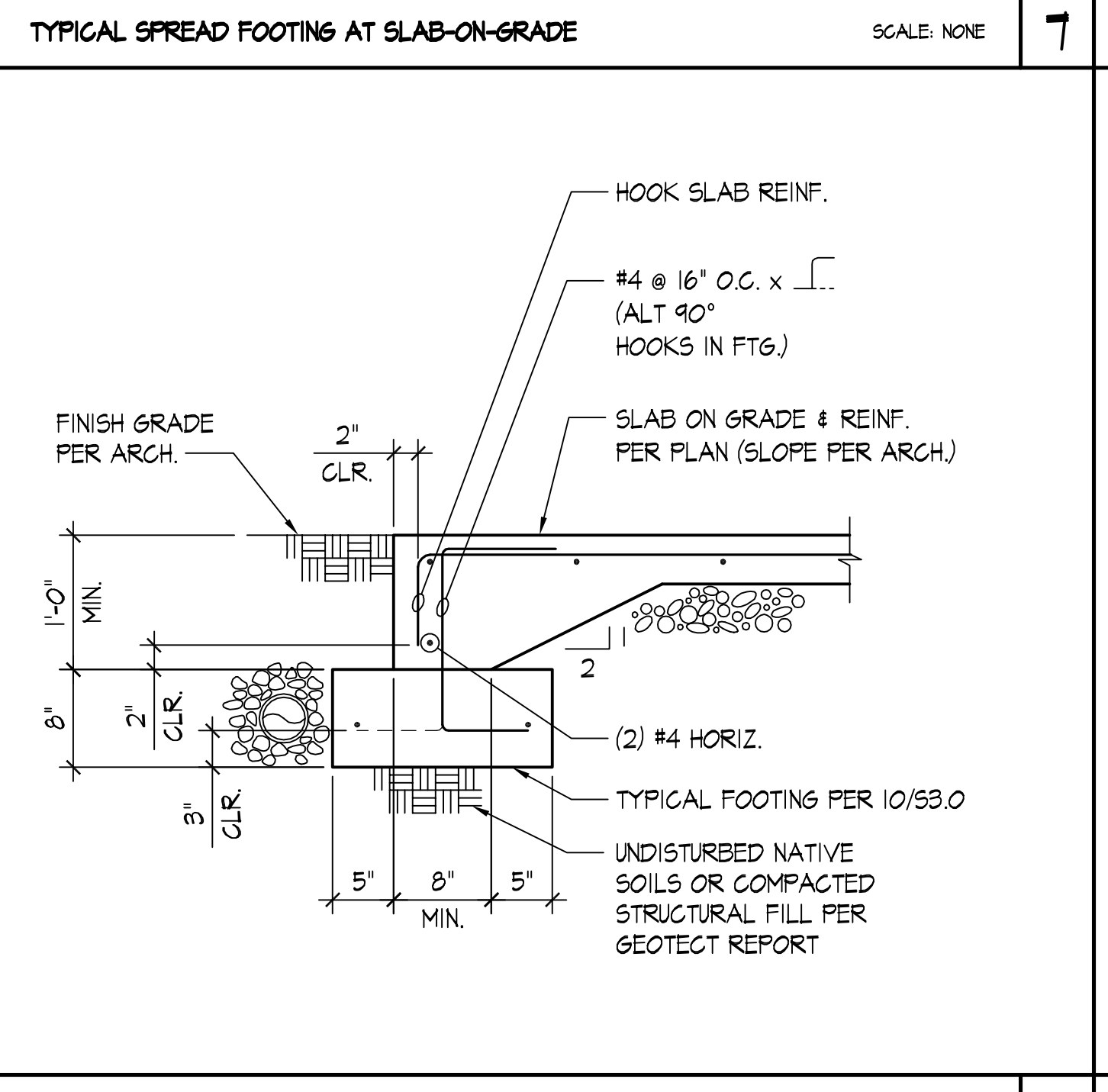
TYPICAL INTERIOR WALL FOUNDATION (THICKENED SLAB) SCALE: NONE 8



TYPICAL STAIR ON GRADE SCALE: NONE 9



TYPICAL PERIMETER WALL FOUNDATION AT SLAB-ON-GRADE SCALE: NONE 10



TYPICAL THICKENED SLAB AT DOOR SCALE: NONE 11

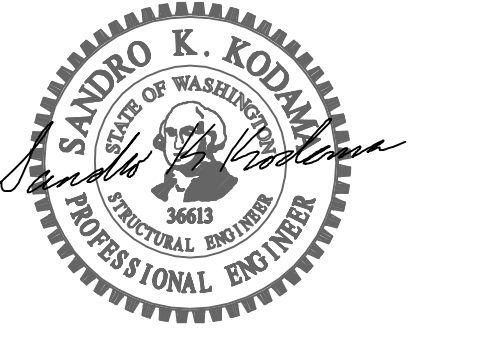
TYPICAL FOUNDATION/SLAB DETAILS

MARK	SIZE	DEPTH	REINFORCING	REMARKS
F2.0	2'-0" x 2'-0"	12"	(3) #4 EA. WAY BOT.	
F2.5	2'-6" x 2'-6"	12"	(4) #4 EA. WAY BOT.	

TYPICAL FOUNDATION/SLAB DETAILS SCALE: NONE 12

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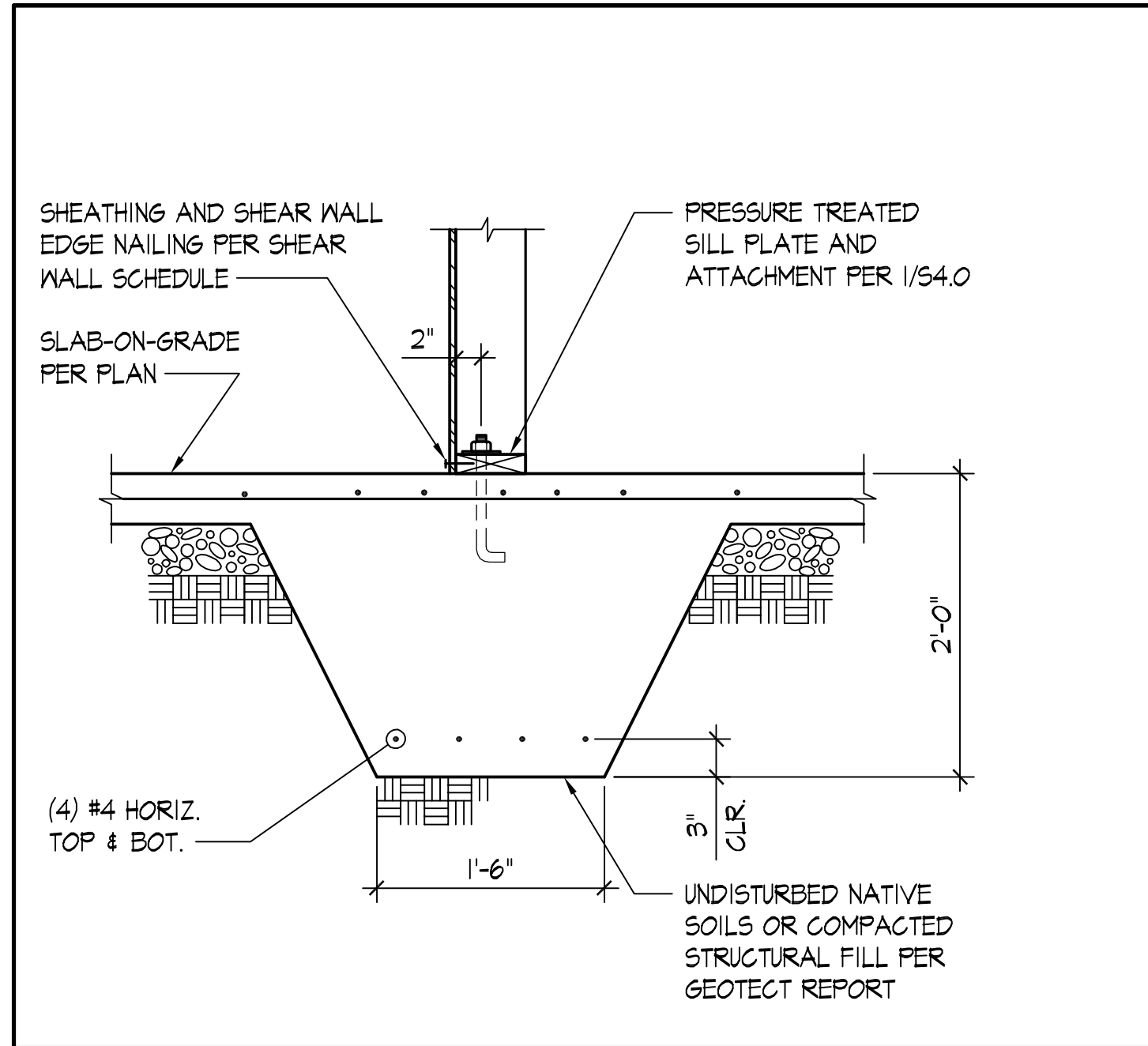
DESIGN	SKK
DRAWN	SC
CHECKED	SKK
DATE	1/8/2019
REVISIONS	
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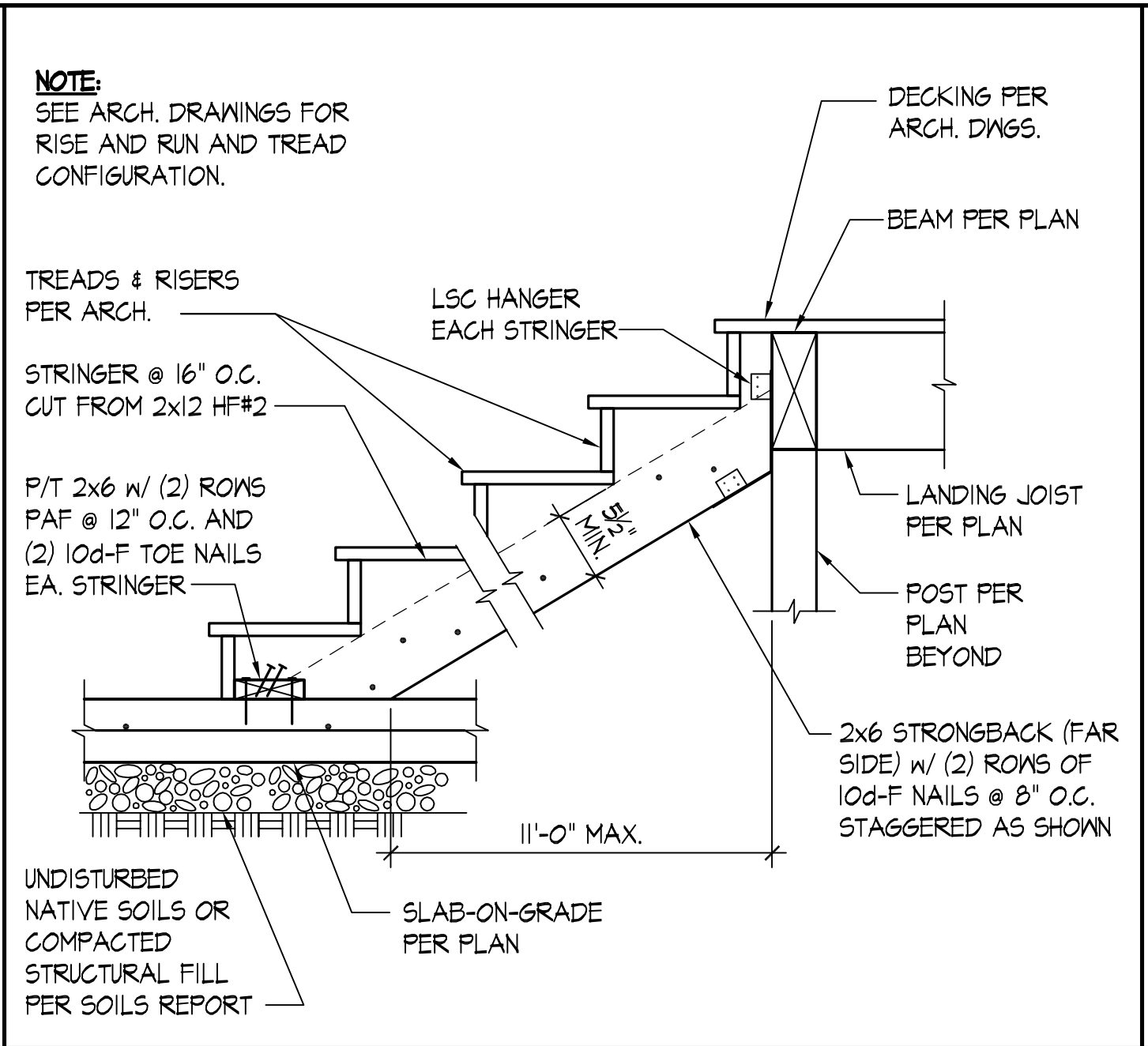
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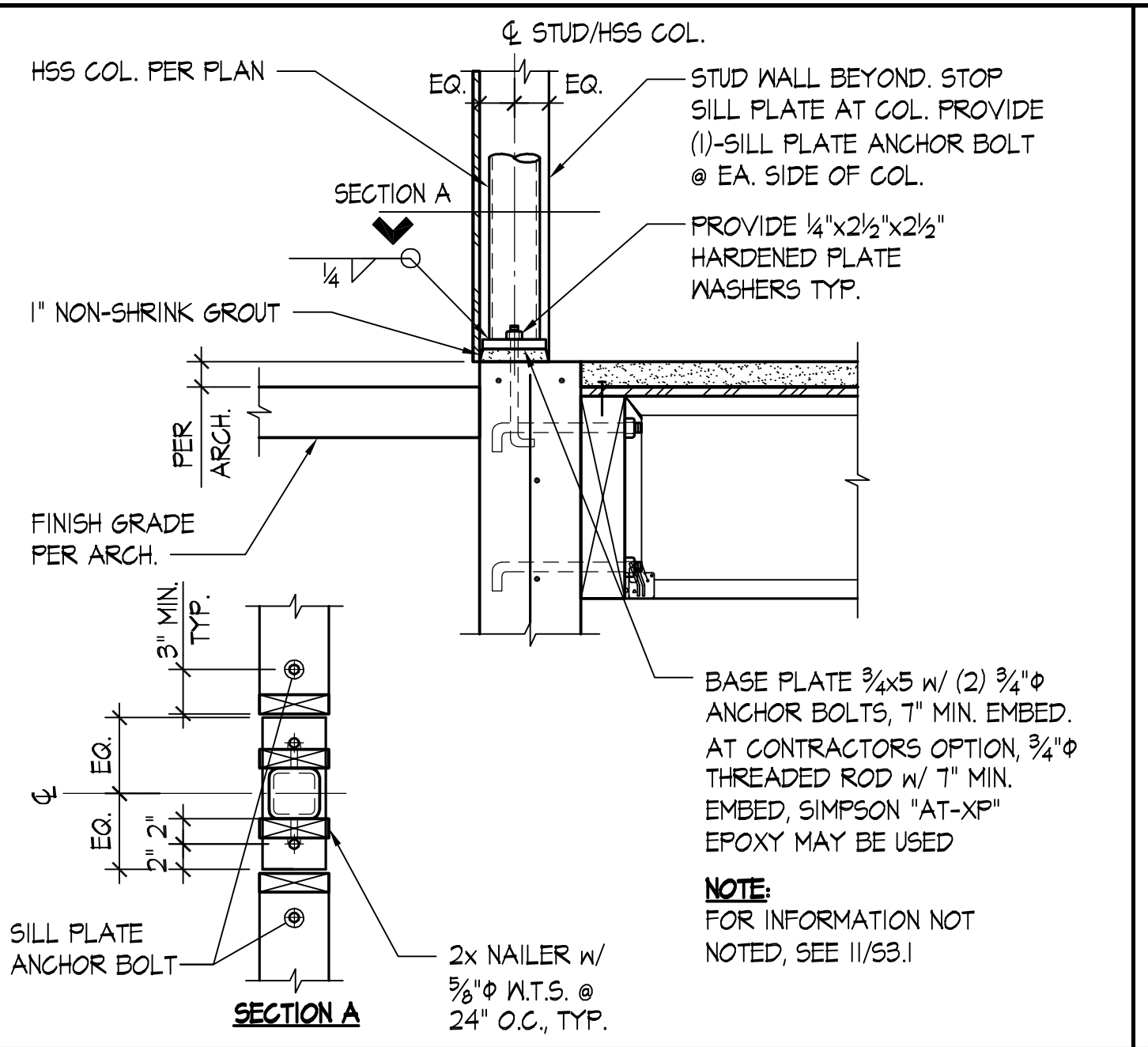
TYPICAL FOUNDATION/SLAB DETAILS



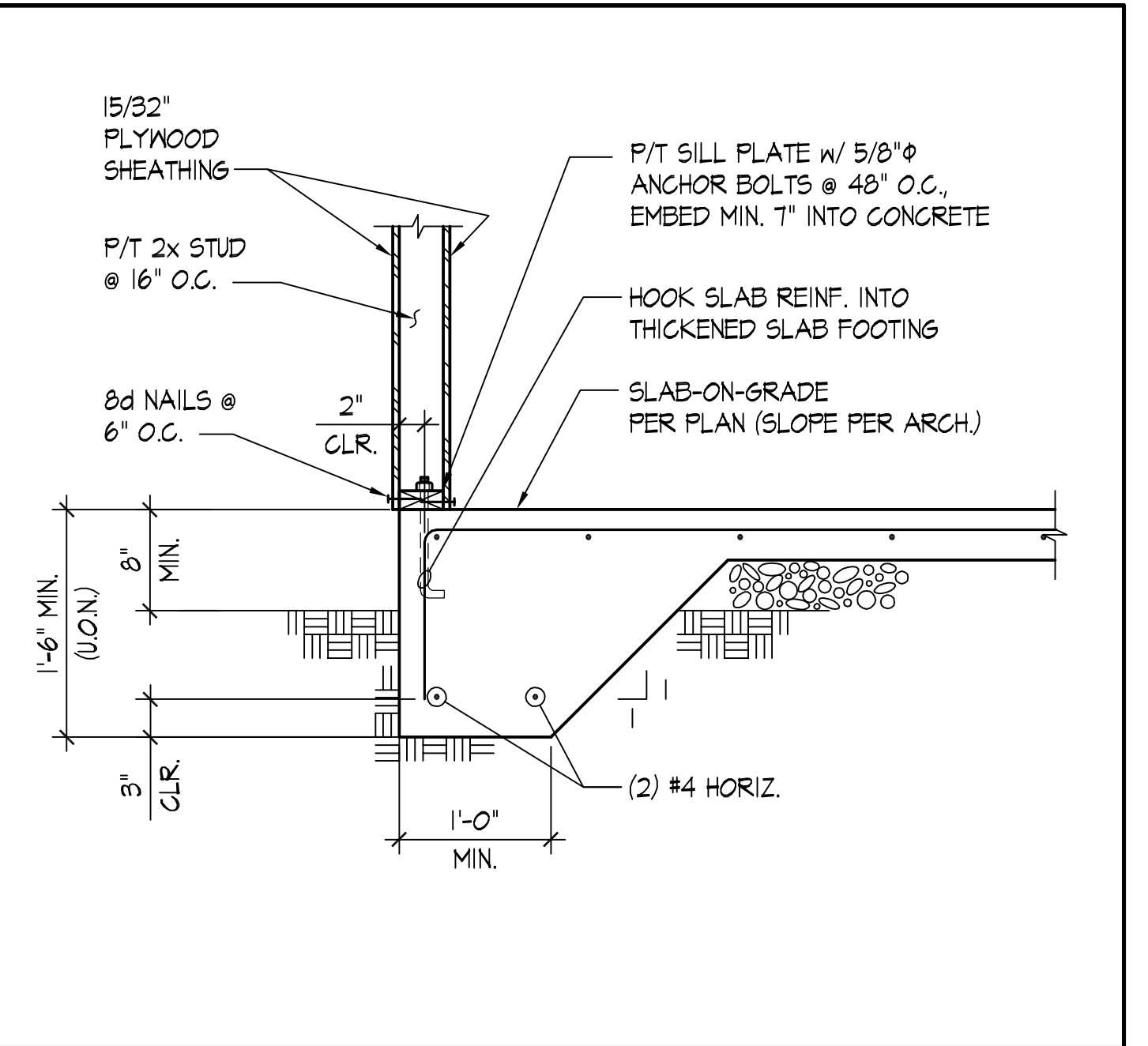
TYPICAL THICKENED SLAB AT SHEAR WALL SCALE: 1/4"=1'-0"



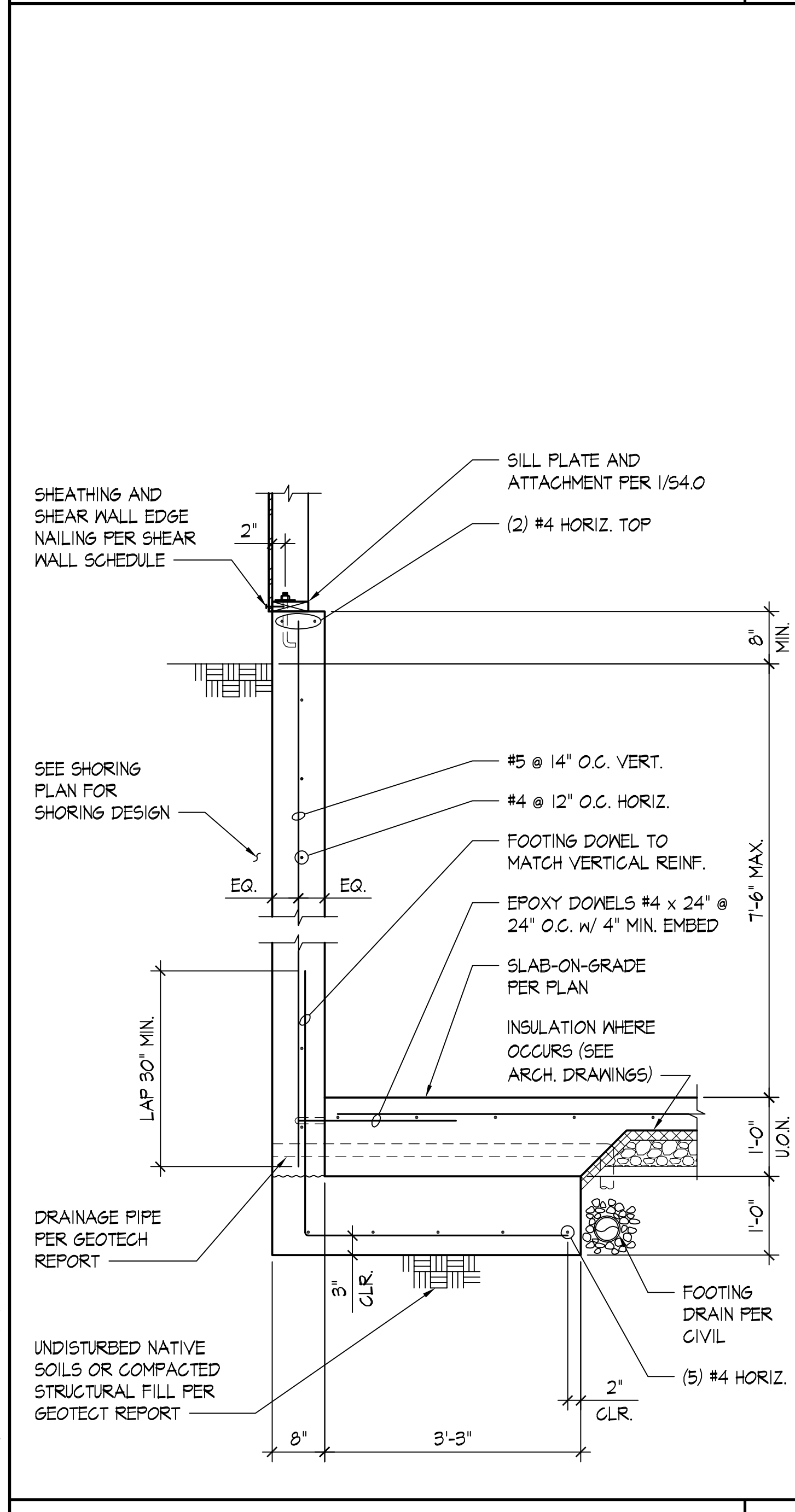
STAIR STRINGER TO FOOTING SCALE: NONE 2



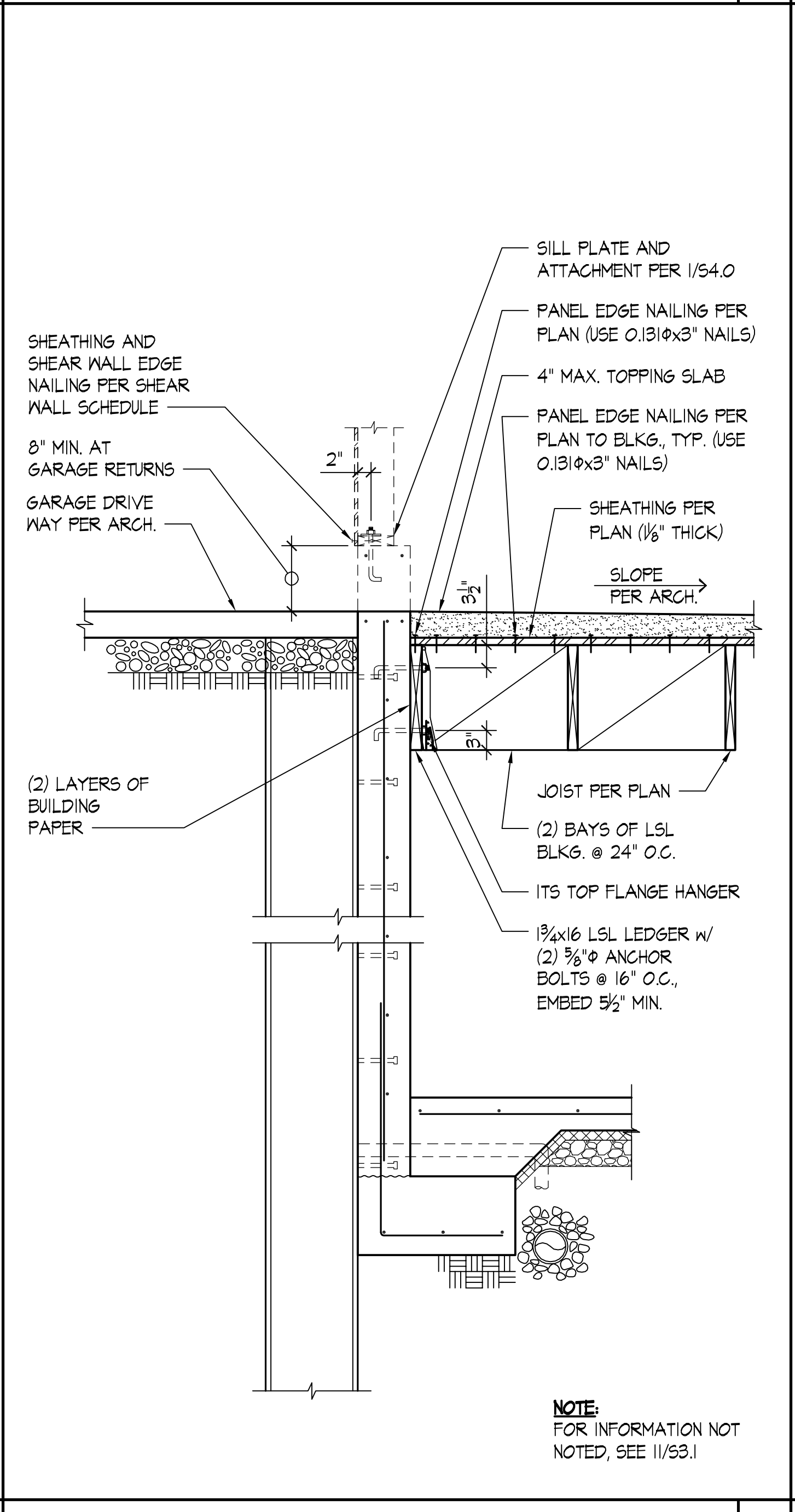
HSS COLUMN BASE CONNECTION SCALE: 1/4"=1'-0" 3



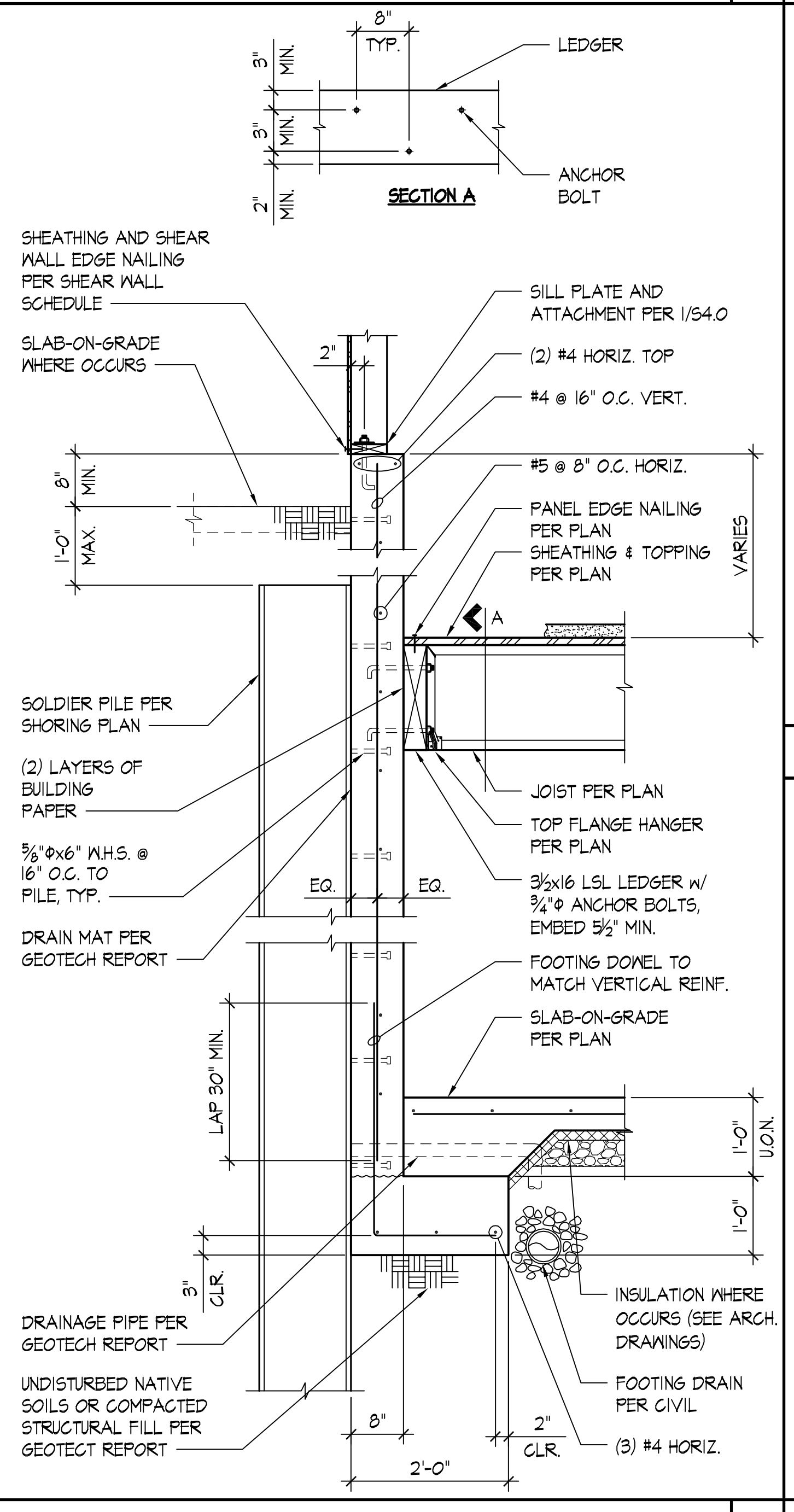
THICKENED SLAB EDGE AT TRASH ENCLOSURE SCALE: 1/4"=1'-0" 4



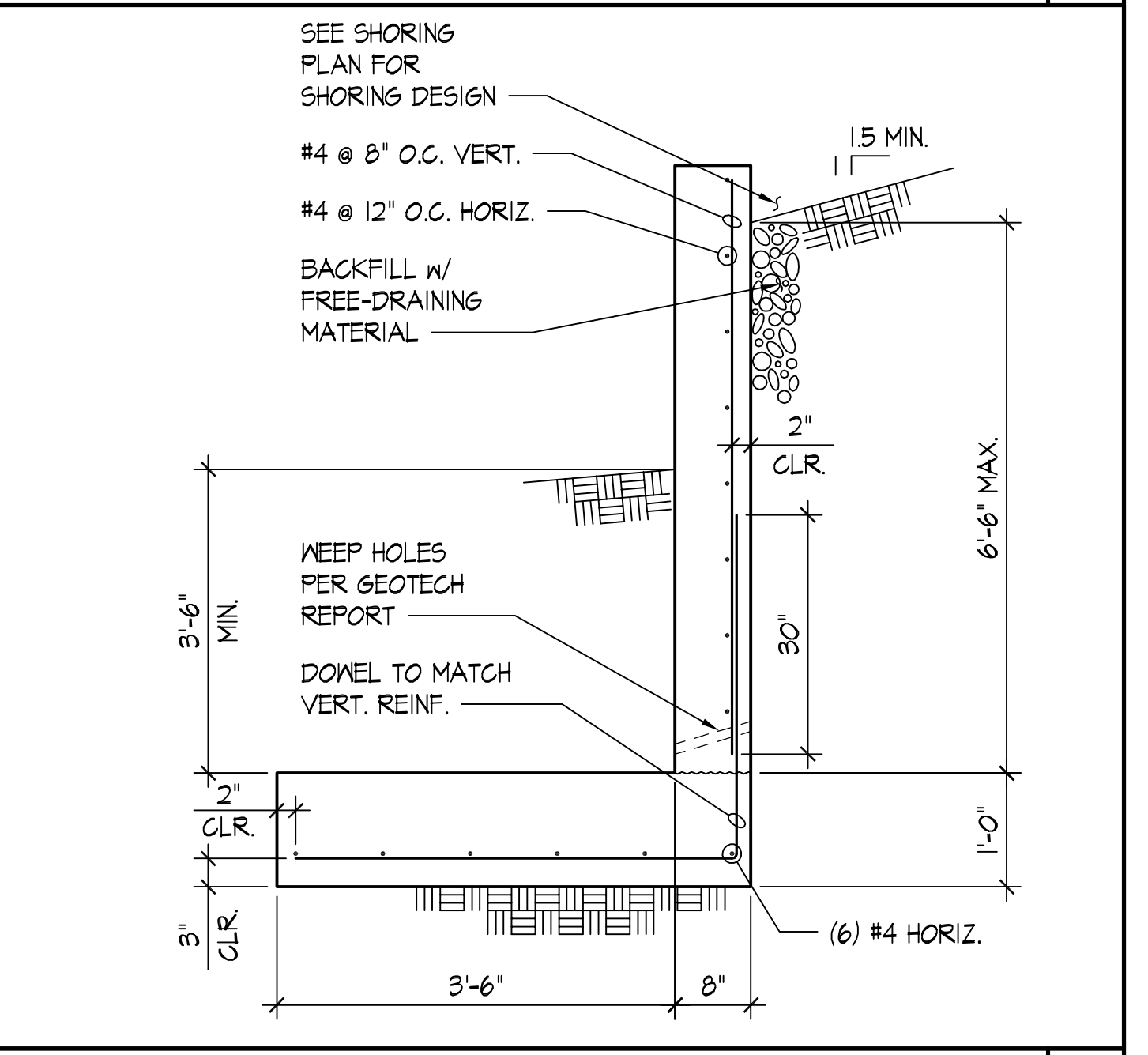
PARTIAL HEIGHT CONCRETE WALL SCALE: 3/4"=1'-0" 9



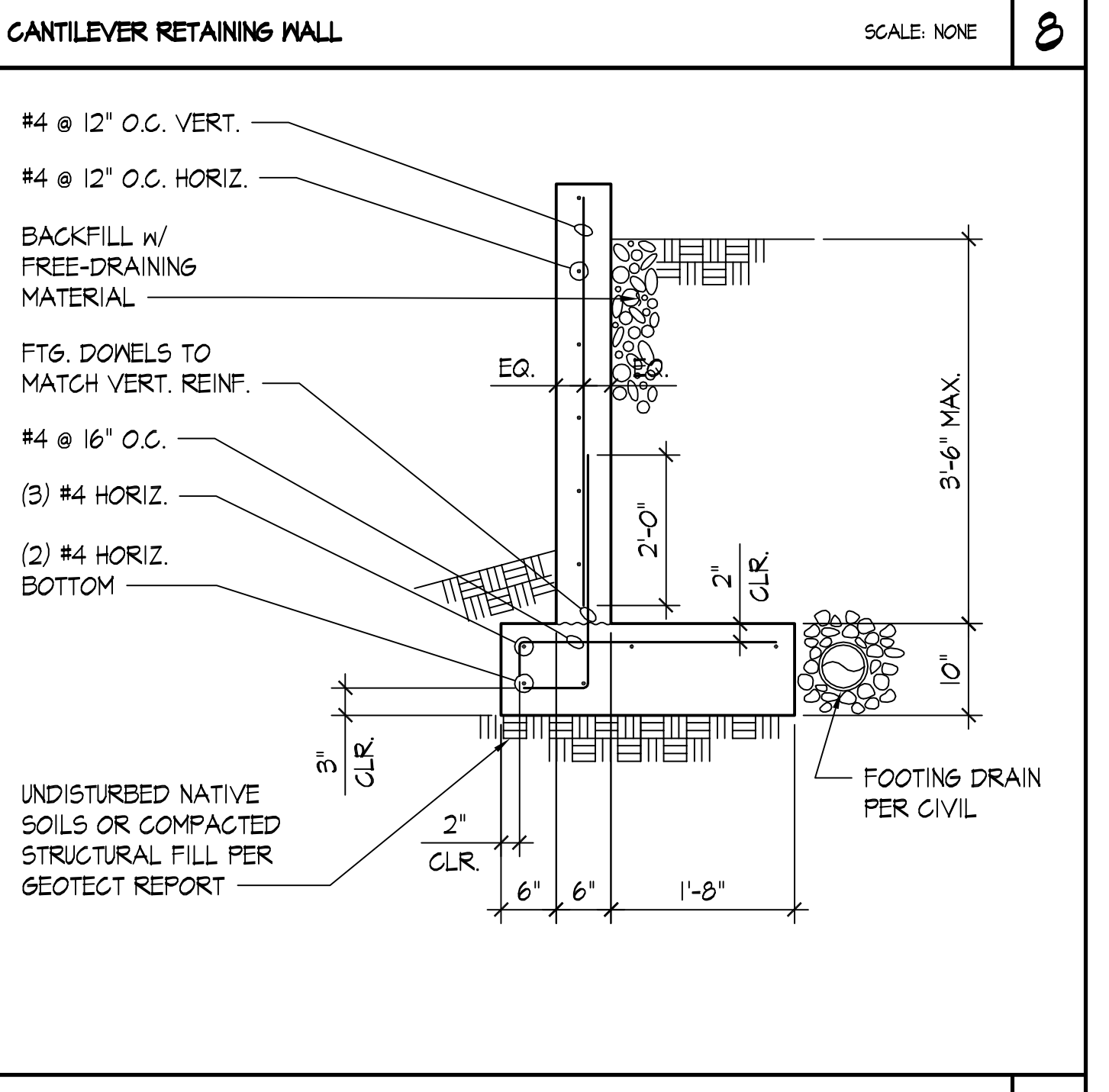
CONCRETE WALL AT GARAGE SCALE: 3/4"=1'-0" 10



DETAIL SCALE: 3/4"=1'-0" 11



CANTILEVER RETAINING WALL SCALE: NONE 8



CANTILEVER RETAINING WALL SCALE: 3/4"=1'-0" 12



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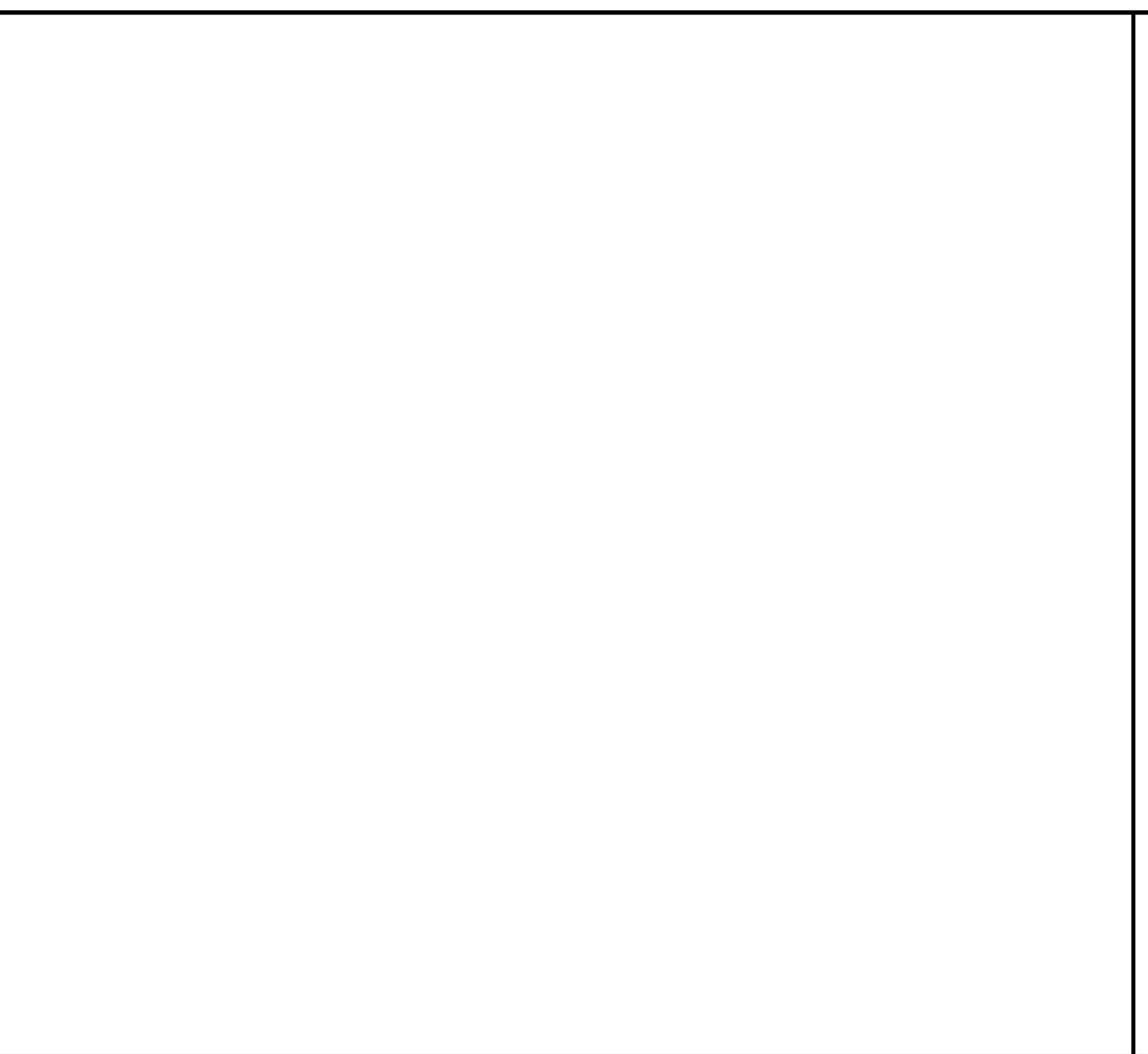
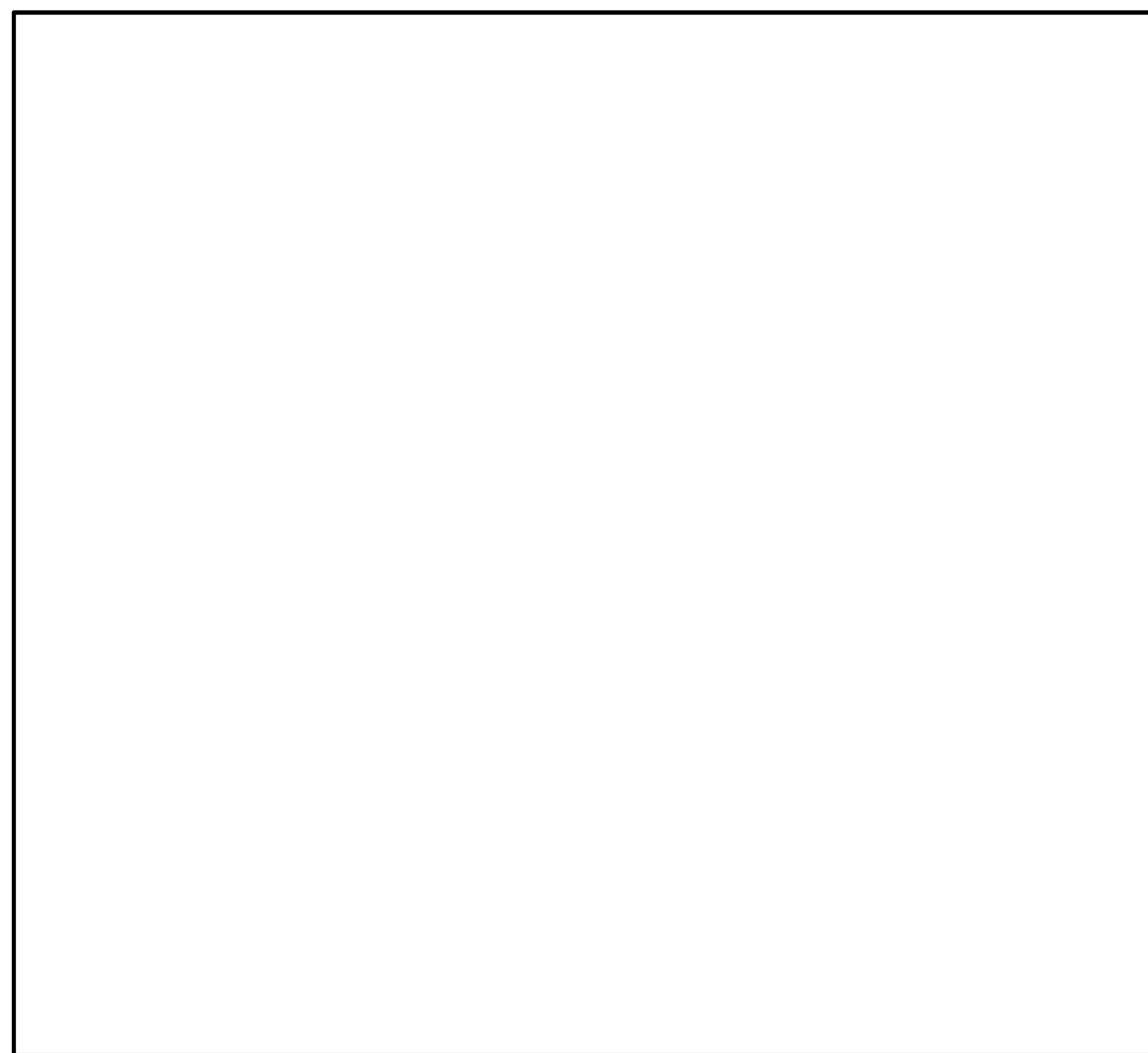
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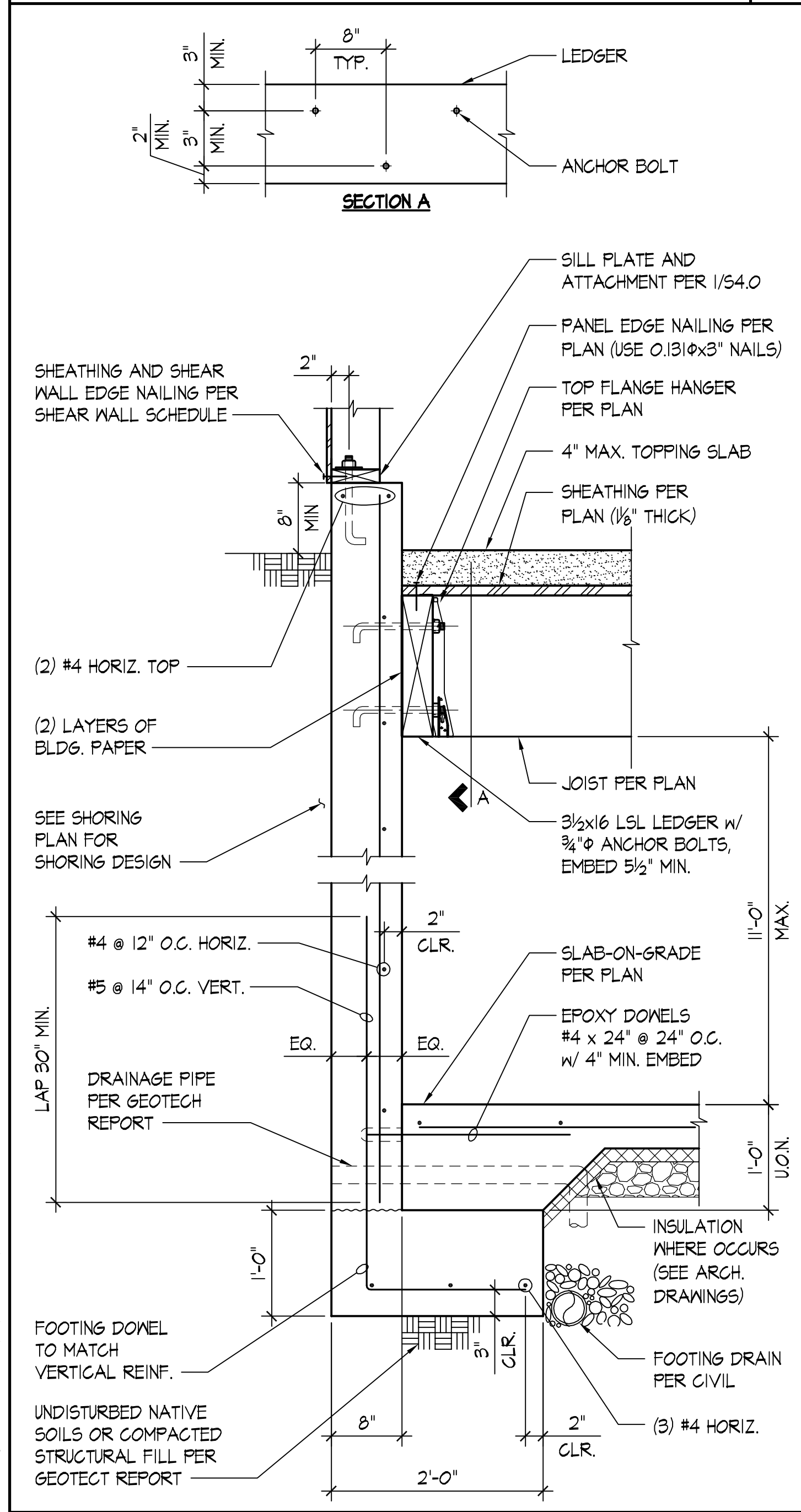


DETAIL SCALE: 1"=1'-0" |

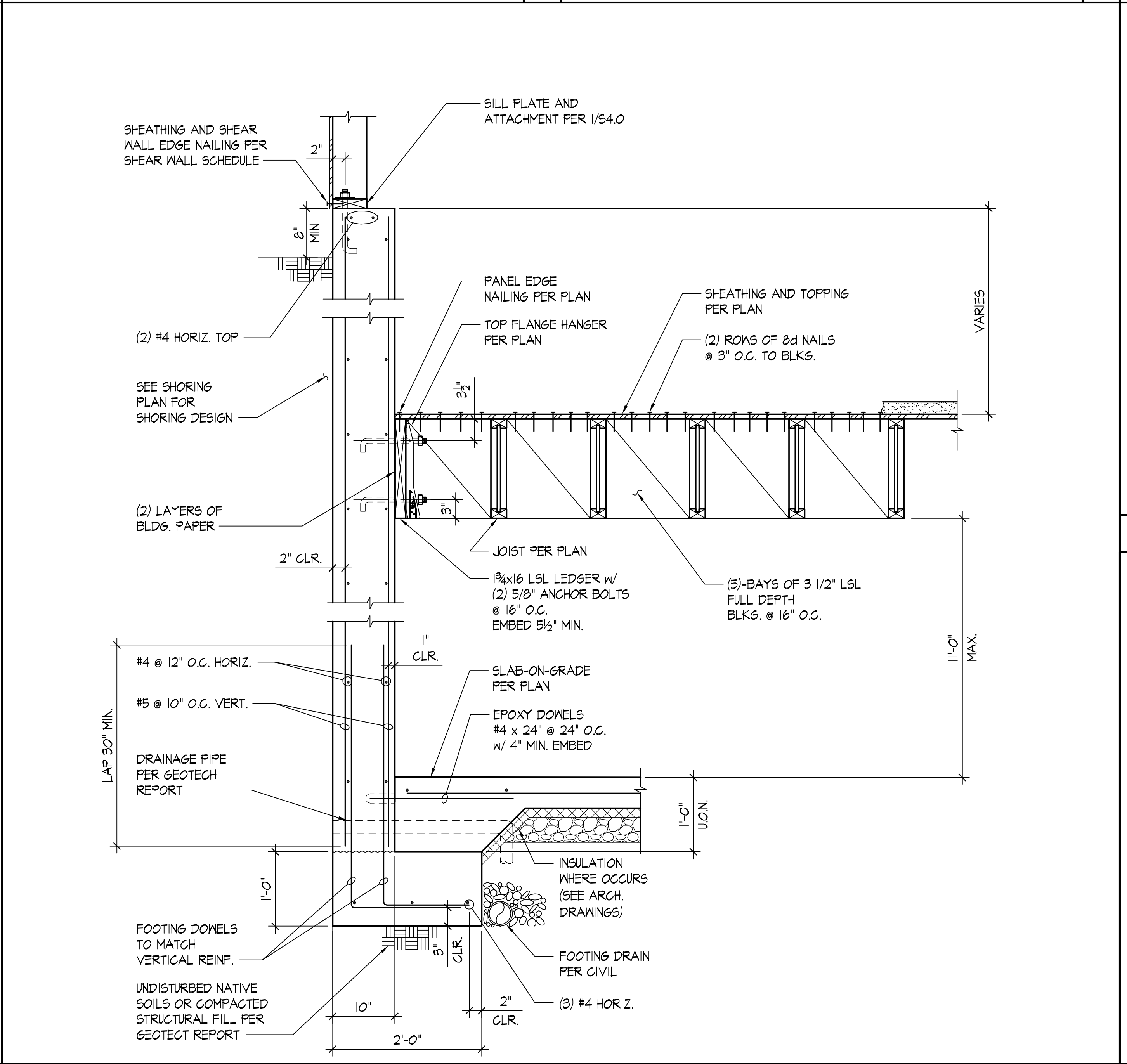
DETAIL SCALE: 1"=1'-0" 2

DETAIL SCALE: 1"=1'-0" 3

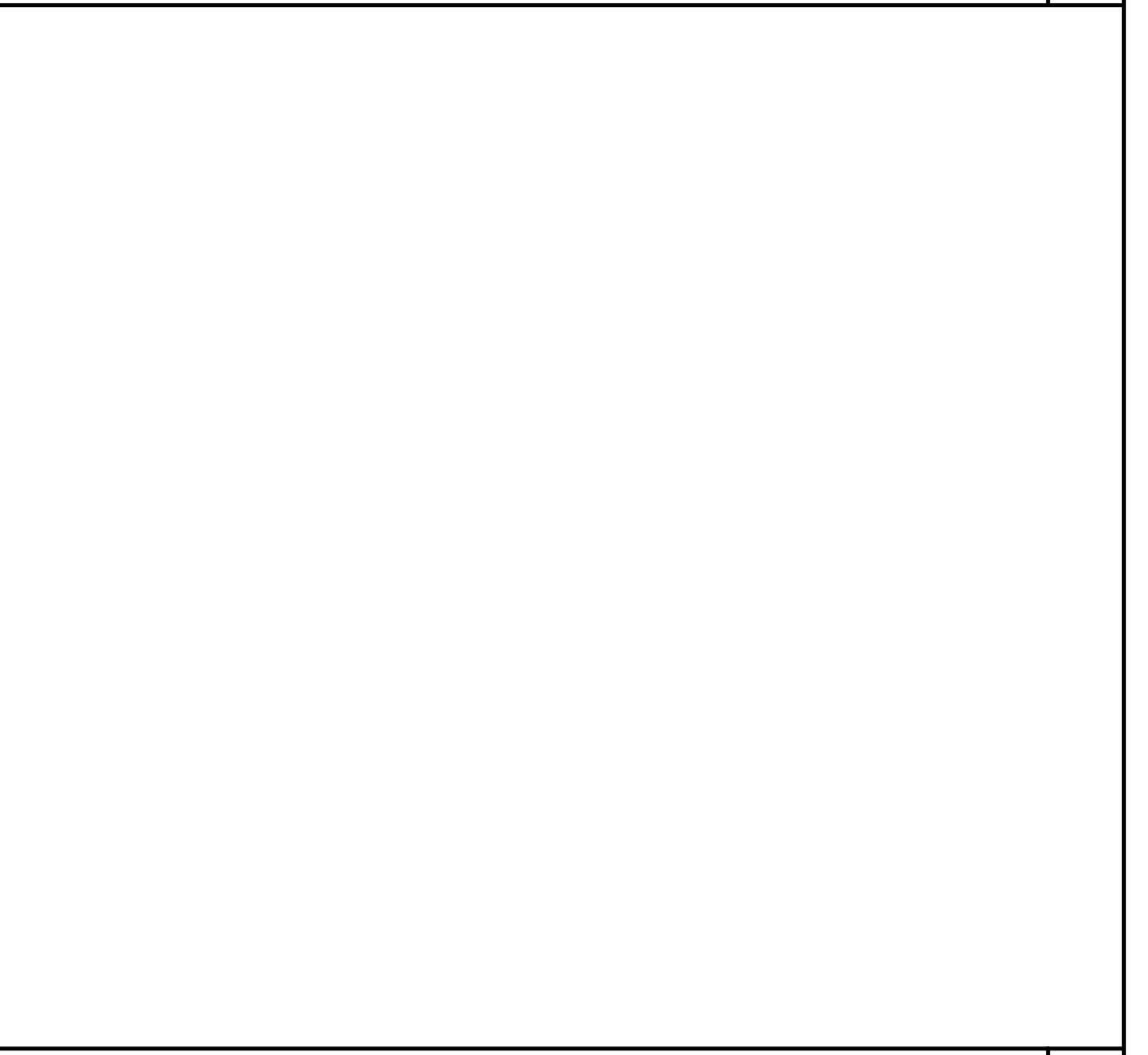
DETAIL SCALE: 1"=1'-0" 4



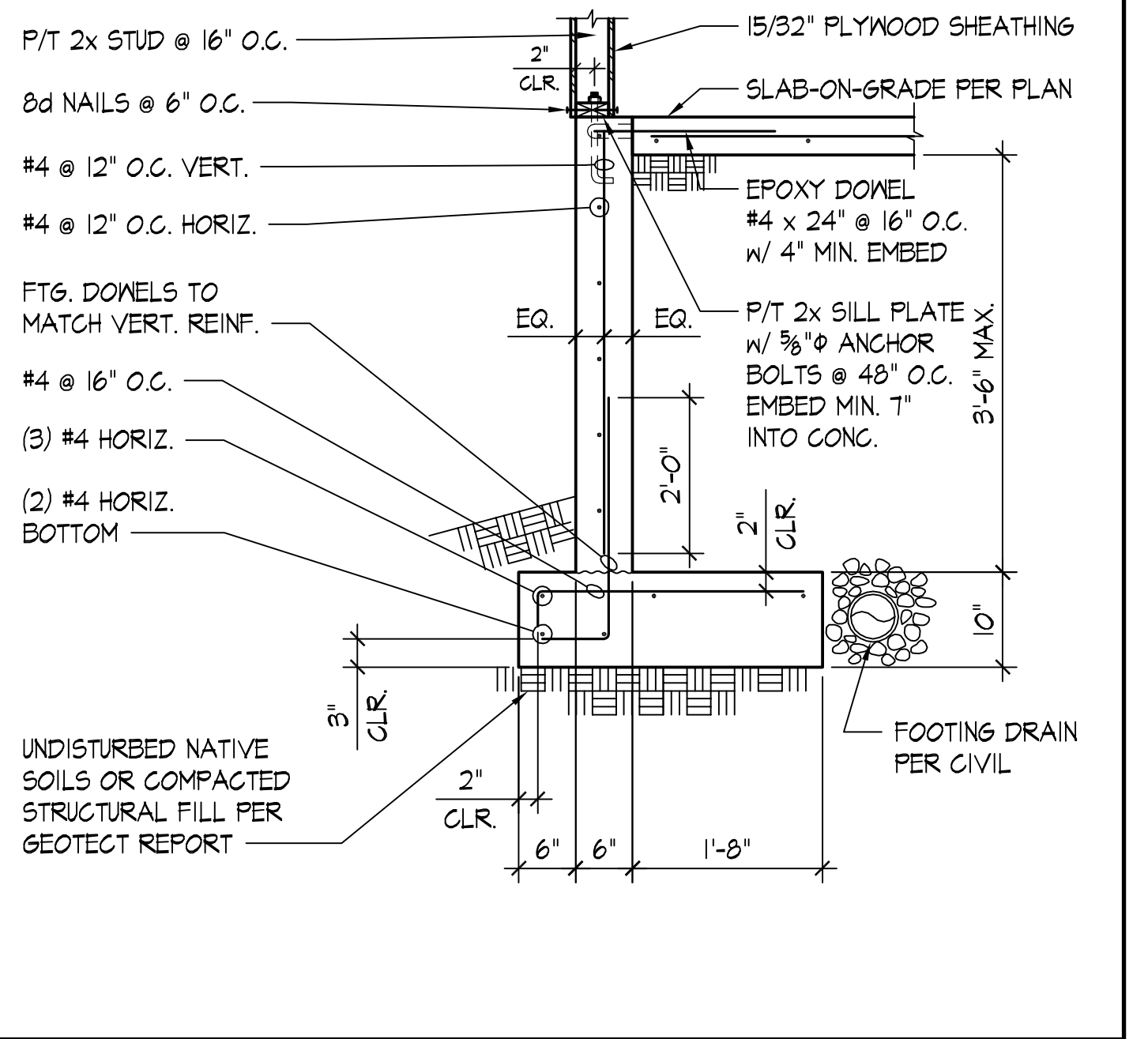
BASEMENT WALL SCALE: 1"=1'-0" 9



BASEMENT WALL SCALE: 1"=1'-0" 11

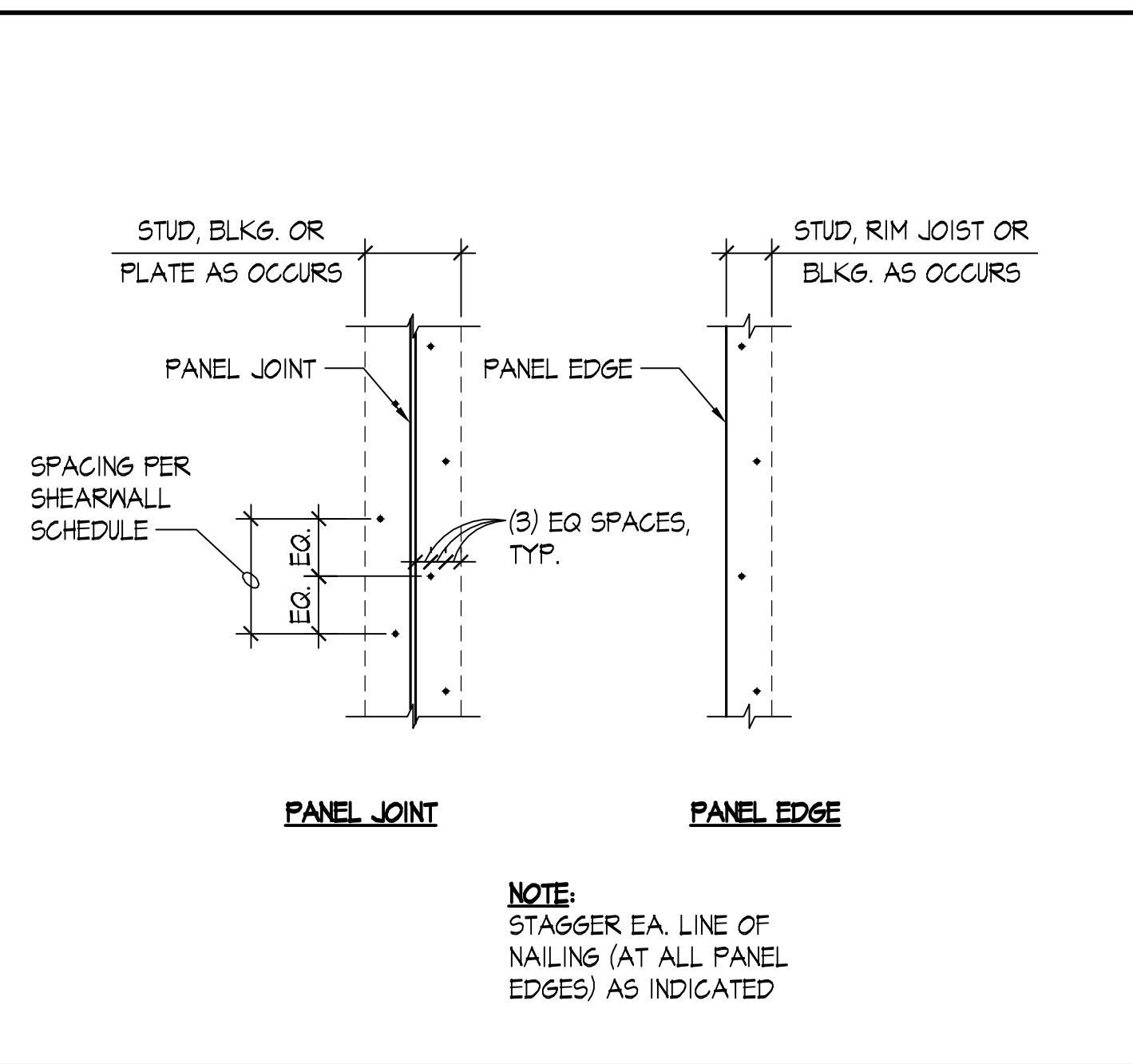
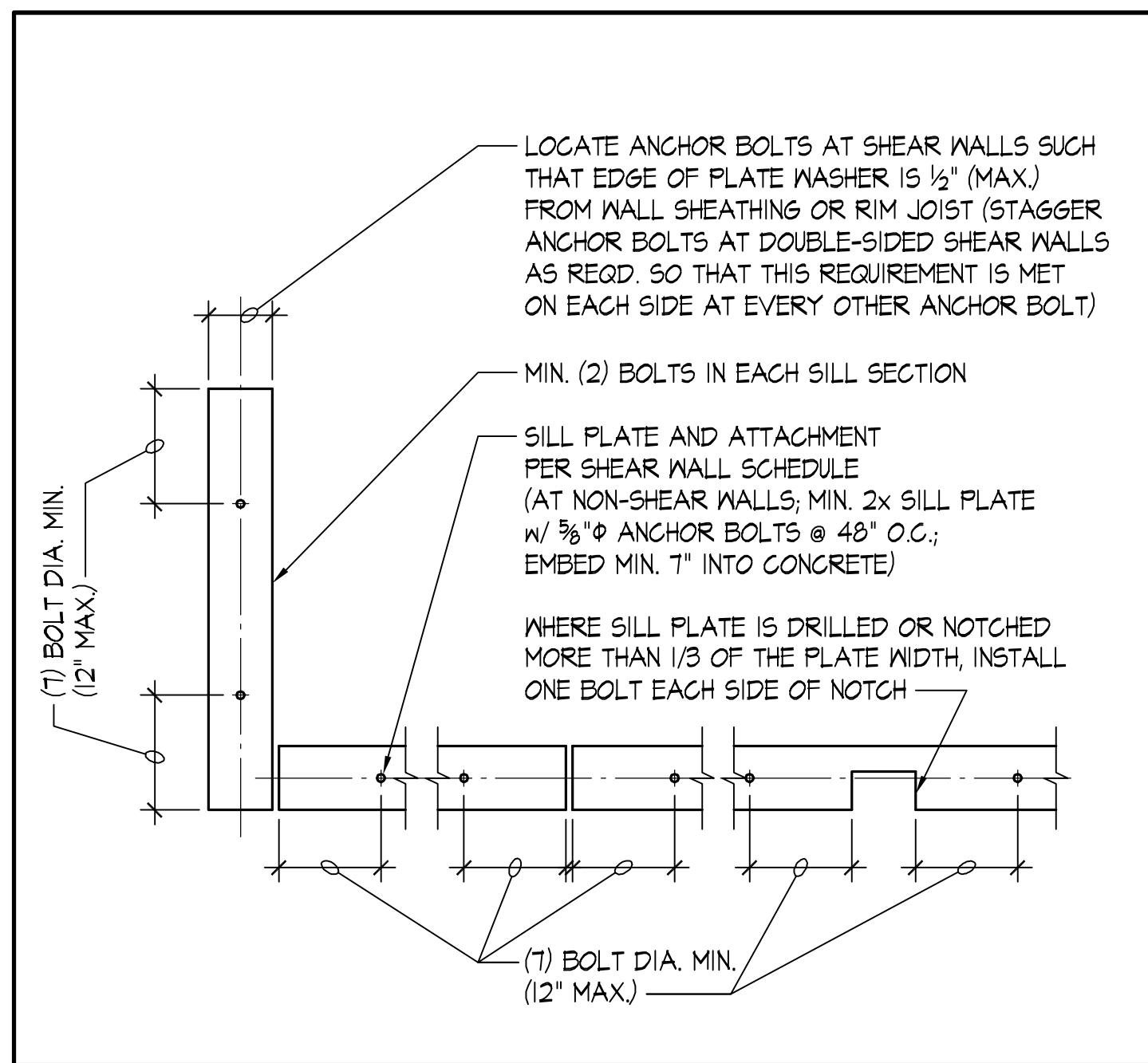


DETAIL SCALE: 1"=1'-0" 8



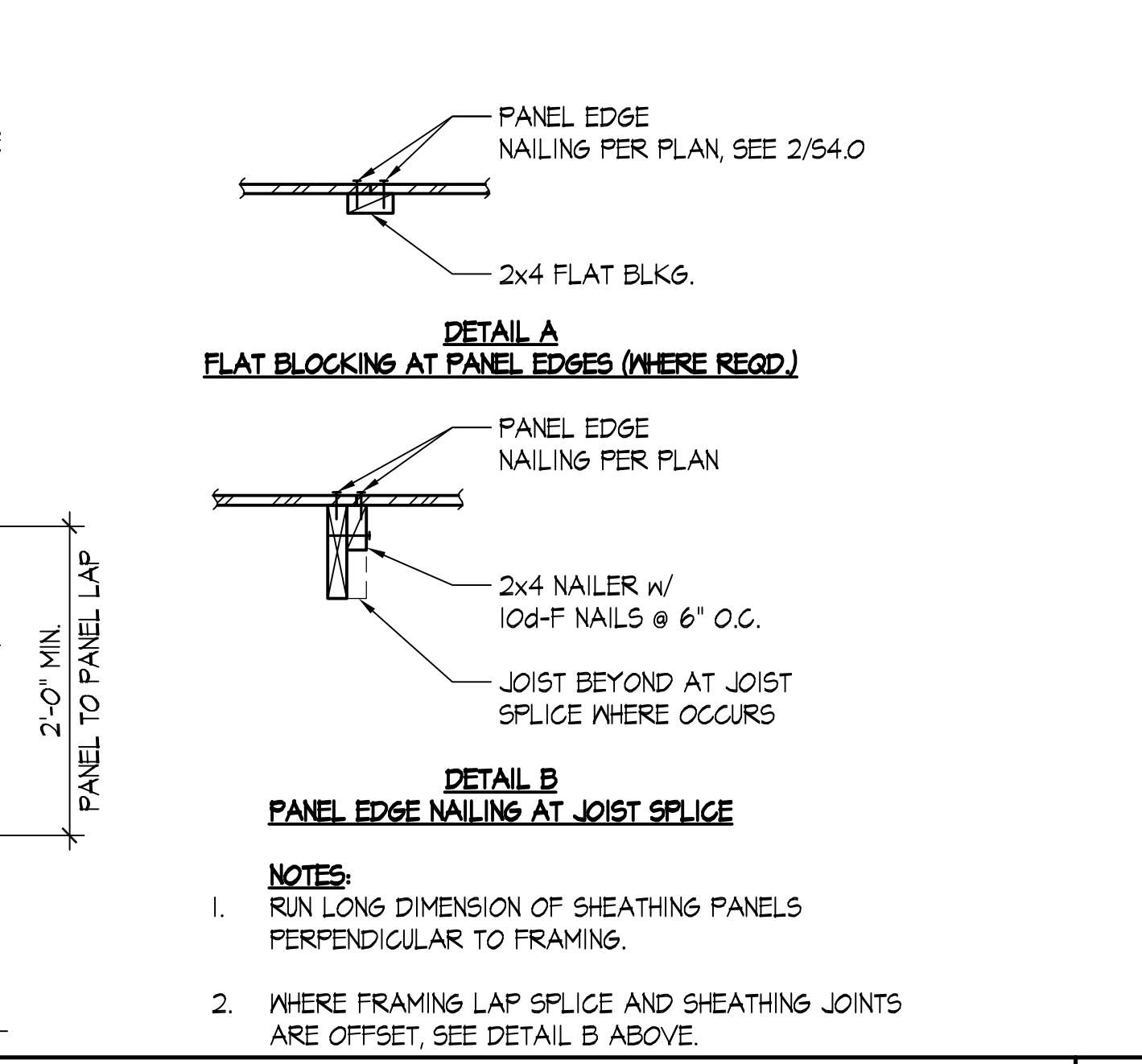
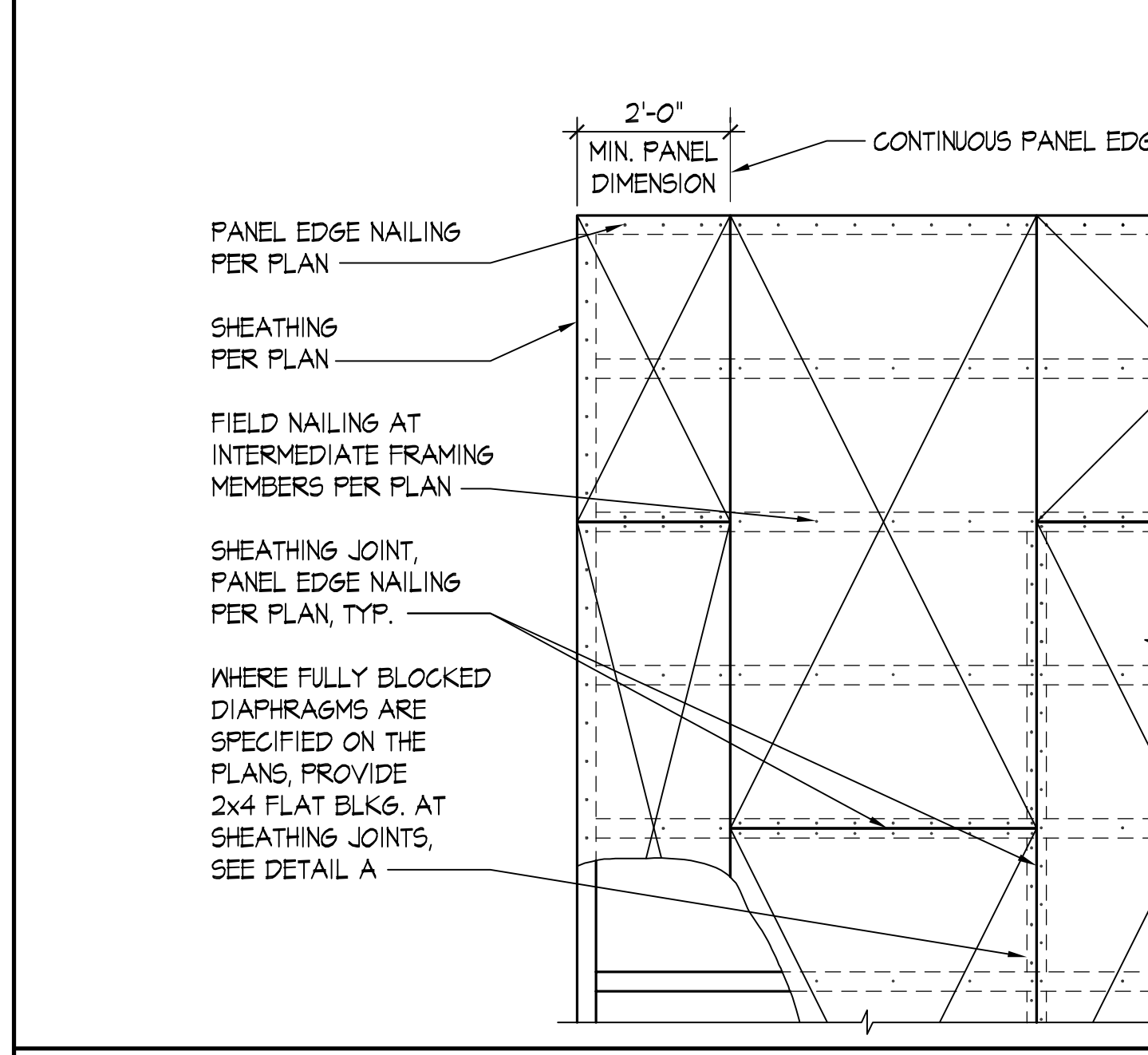
TRASH ENCLOSURE FOOTING SCALE: 3/4"=1'-0" 12

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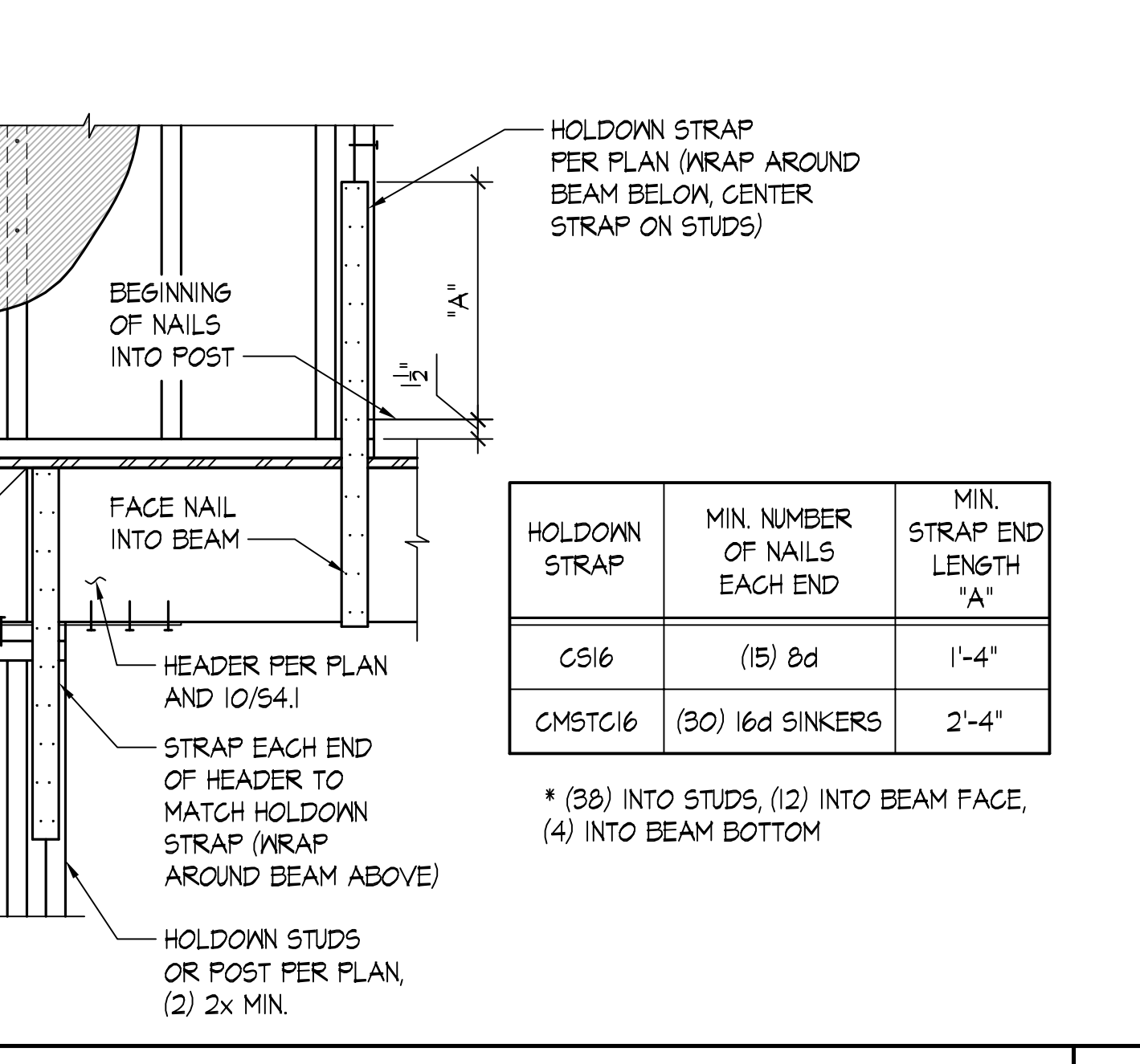
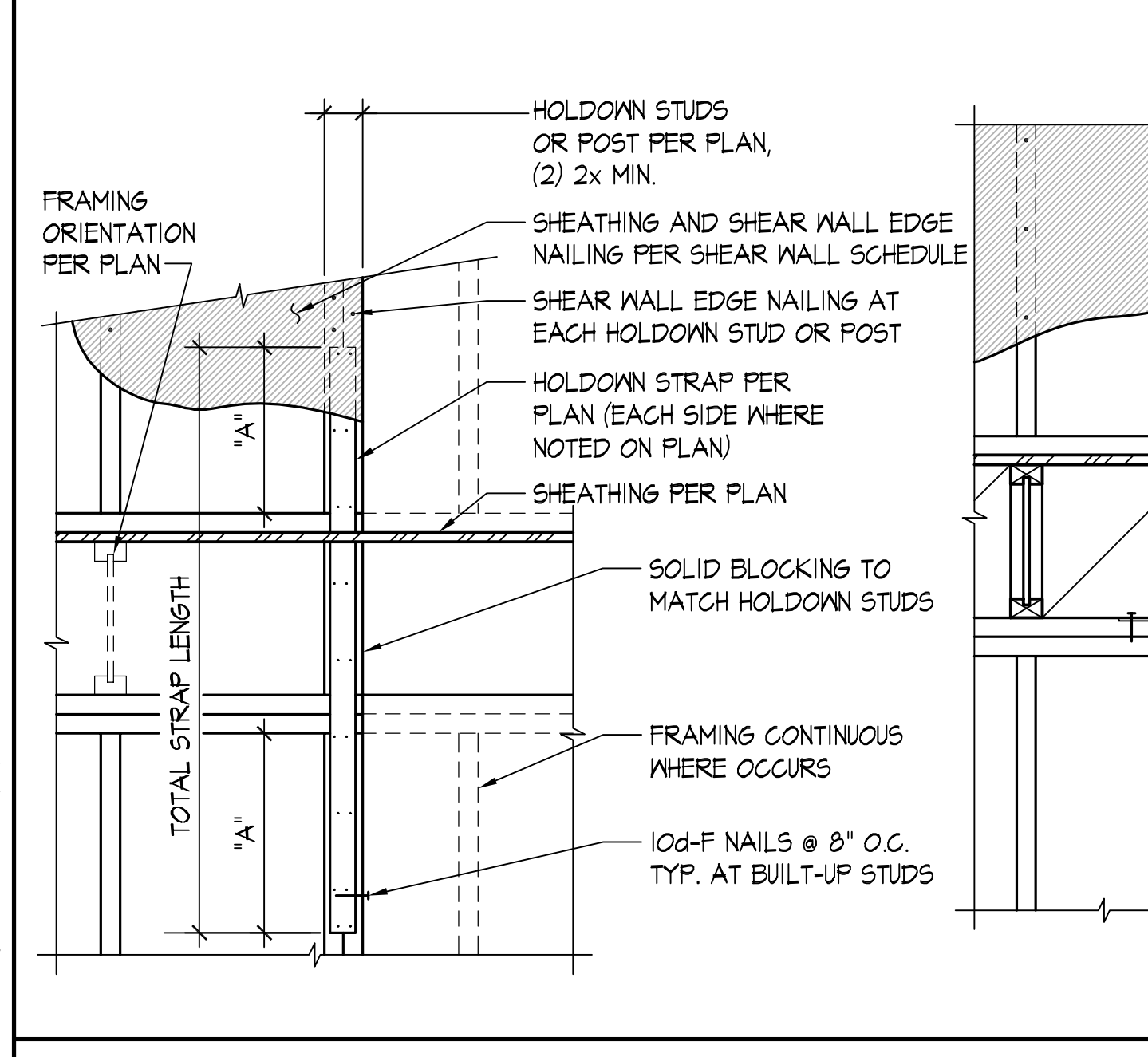
TYPICAL SILL PLATE BOLTING - PLAN VIEW SCALE: NONE

TYPICAL STAGGERED NAILING SCALE: NONE 2



TYPICAL ROOF AND FLOOR DIAPHRAGM SHEATHING SCALE: NONE

6



TYPICAL FLOOR TO FLOOR HOLDDOWN STRAP & FLOOR TO HEADER HOLDDOWN STRAP SCALE: NONE

10

SHEAR WALL TYPE	SHEAR WALL SHEATHING ①	PANEL EDGE FRAMING ② ⑦	PANEL EDGE NAILING ③	BOTTOM PLATE ATTACHMENT		TOP PLATE ATTACHMENT		
				2x BOTTOM PLATE CONNECTION TO RIM JOIST OR BLOCKING BELOW	ANCHOR BOLTING OF SILL PLATE TO CONCRETE BELOW ④ ⑤		RIM JOIST OR BLOCKING CONNECTION TO TOP PLATE ⑥	
					3x PLATE	2x PLATE	INTERIOR WALL	EXTERIOR WALL
9M-6	15/32" APA ONE-SIDE SHTG.	2x	0.131" φ x 2 1/2" @ 6" O.C.	0.148" x 3/4" @ 6" O.C. ⑩	5/8" φ @ 48" O.C.	5/8" φ @ 48" O.C.	A35 @ 16" O.C.	LTP4 @ 16" O.C.
9M-4	15/32" APA ONE-SIDE SHTG.	3x OR (2) 2x	0.131" φ x 2 1/2" @ 4" O.C. ⑥	0.148" x 3/4" @ 4" O.C. ⑩	5/8" φ @ 48" O.C.	5/8" φ @ 32" O.C.	A35 @ 16" O.C.	LTP4 @ 16" O.C.
9M-3	15/32" APA ONE-SIDE SHTG.	3x OR (2) 2x	0.131" φ x 2 1/2" @ 3" O.C. ⑥	0.148" x 3/4" @ 3" O.C. ⑩	5/8" φ @ 32" O.C.	5/8" φ @ 24" O.C.	A35 @ 12" O.C.	LTP4 @ 12" O.C.
9M-2	15/32" APA ONE-SIDE SHTG.	3x OR (2) 2x	0.131" φ x 2 1/2" @ 2" O.C. ⑥	(2) ROWS 0.148" x 3/4" @ 4" O.C. STAGGERED ⑪	5/8" φ @ 24" O.C.	5/8" φ @ 16" O.C.	A35 @ 8" O.C.	LTP4 @ 8" O.C.

- NOTES:
- INSTALL PANEL SHEATHING EITHER HORIZONTALLY OR VERTICALLY FOR THE ENTIRE LENGTH OF THE WALL PER PLAN.
 - ALL INTERMEDIATE WALL STUDS SHALL BE PER PLAN. PROVIDE BACKING FRAMING AT ALL PANEL EDGES INCLUDING HORIZONTAL BLOCKING PER THE SCHEDULE.
 - PROVIDE NAILING TO ALL PANEL EDGES, TOP & BOTTOM PLATES AND HORIZONTAL BLOCKING. PROVIDE THE SAME NAILING PATTERN TO EACH MULTIPLE STUD OF THE BUILT-UP HOLD DOWN POST. NAIL PANEL TO INTERMEDIATE FRAMING MEMBERS w/ 0.131" φ x 2 1/2" @ 12" O.C.
 - EMBED CAST-IN-PLACE 5/8" φ ANCHOR BOLTS 7" MIN. (OR EMBED ADHESIVE ANCHOR BOLTS 5 1/2" IN (E) CONCRETE; SEE STRUCTURAL NOTES). PROVIDE PLATE WASHER 3" x 3" x 1/4" AT EACH ANCHOR BOLT. SILL PLATES SHALL BE TREATED PER GENERAL NOTES, AND SHALL BE 2x OR 3x PER THE SCHEDULE. SEE DETAIL 1/54.0 FOR OTHER REQUIREMENTS.
 - PROVIDE HOT DIPPED GALVANIZED NAILS, BOLTS, OR METAL PLATES FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED MEMBERS.
 - PROVIDE 0.131" φ x 1-1/2" LONG NAILS FOR CLIPS DIRECTLY ATTACHED TO FRAMING MEMBERS; PROVIDE 0.131" φ x 2-1/2" LONG NAILS FOR CLIPS INSTALLED OVER FLOOR OR WALL SHEATHING ON FRAMING MEMBERS. SEE 6/54.1 FOR TOP PLATE SPLICE.
 - ALTERNATIVE TO 3x STUDS AND 3x HORIZ. BLOCKING IS (2) 2x STUDS/BLKG. NAILED TOGETHER WITH 0.148" φ x 3" LONG NAILS WITH THE SAME SPACING AS THE PANEL EDGE NAILING PER THE SCHEDULE (STAGGER).
 - STAGGER NAILS PER 2/54.0.
 - STAGGER PANEL EDGE JOINTS AT DOUBLE-SIDED SHEAR WALLS SO THAT JOINTS ON OPPOSITE SIDES ARE NOT AT THE SAME STUD.
 - RIM JOIST/BLOCKING MINIMUM WIDTH OF 1 3/4". STAGGER NAILS PER 2/54.0 WHERE SPACING IS LESS THAN 6" O.C.
 - RIM JOIST/BLOCKING MINIMUM WIDTH OF 1 3/4" AT EXTERIOR WALLS, 3/2" AT INTERIOR WALLS. STAGGER NAILS PER 2/54.0.
 - STAGGER ANCHOR BOLTS ON EITHER SIDE OF SILL PLATE AS NOTED ON 1/54.0.

SHEAR WALL SCHEDULE - 8d NAILS SCALE: NONE

8

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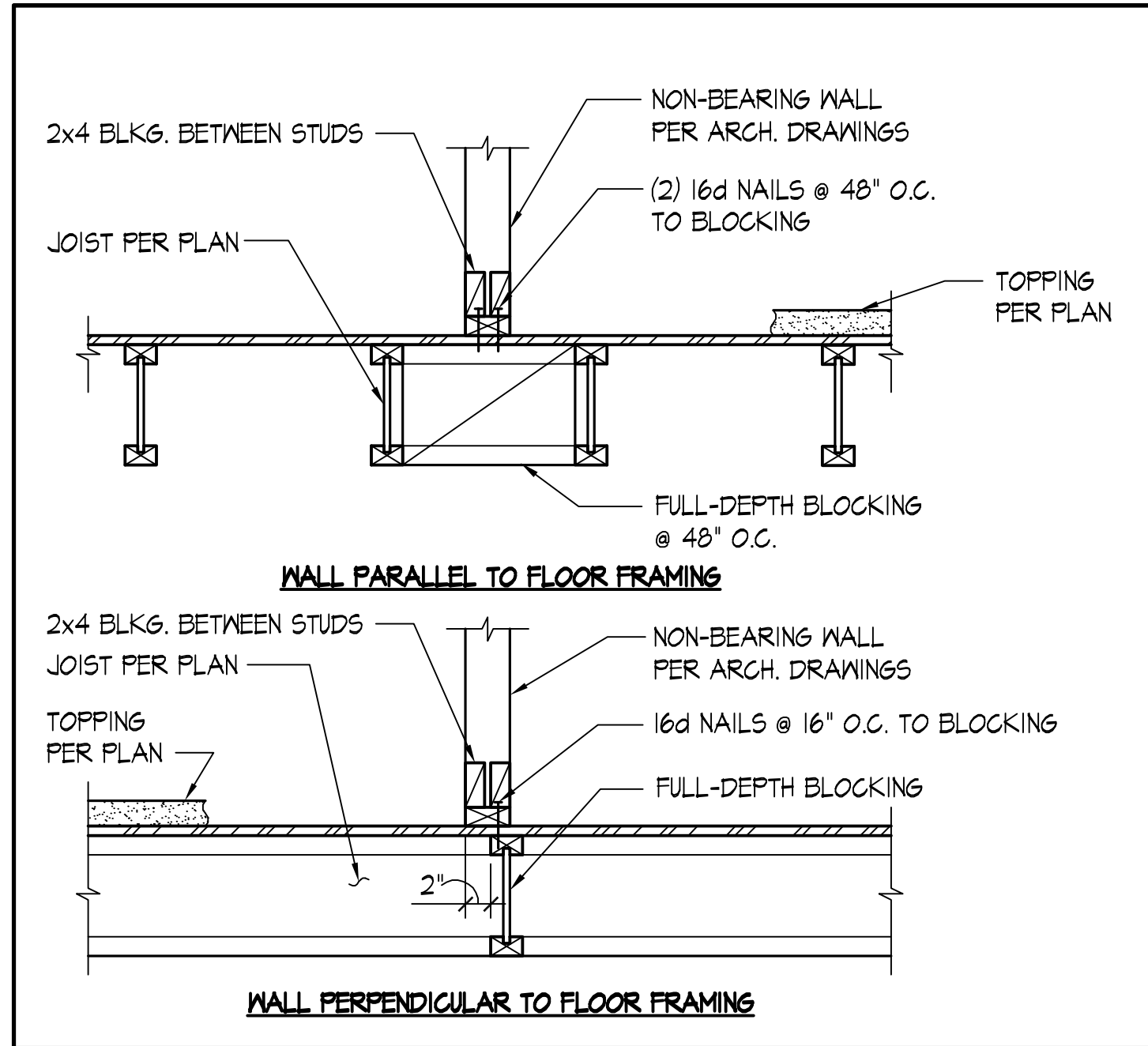
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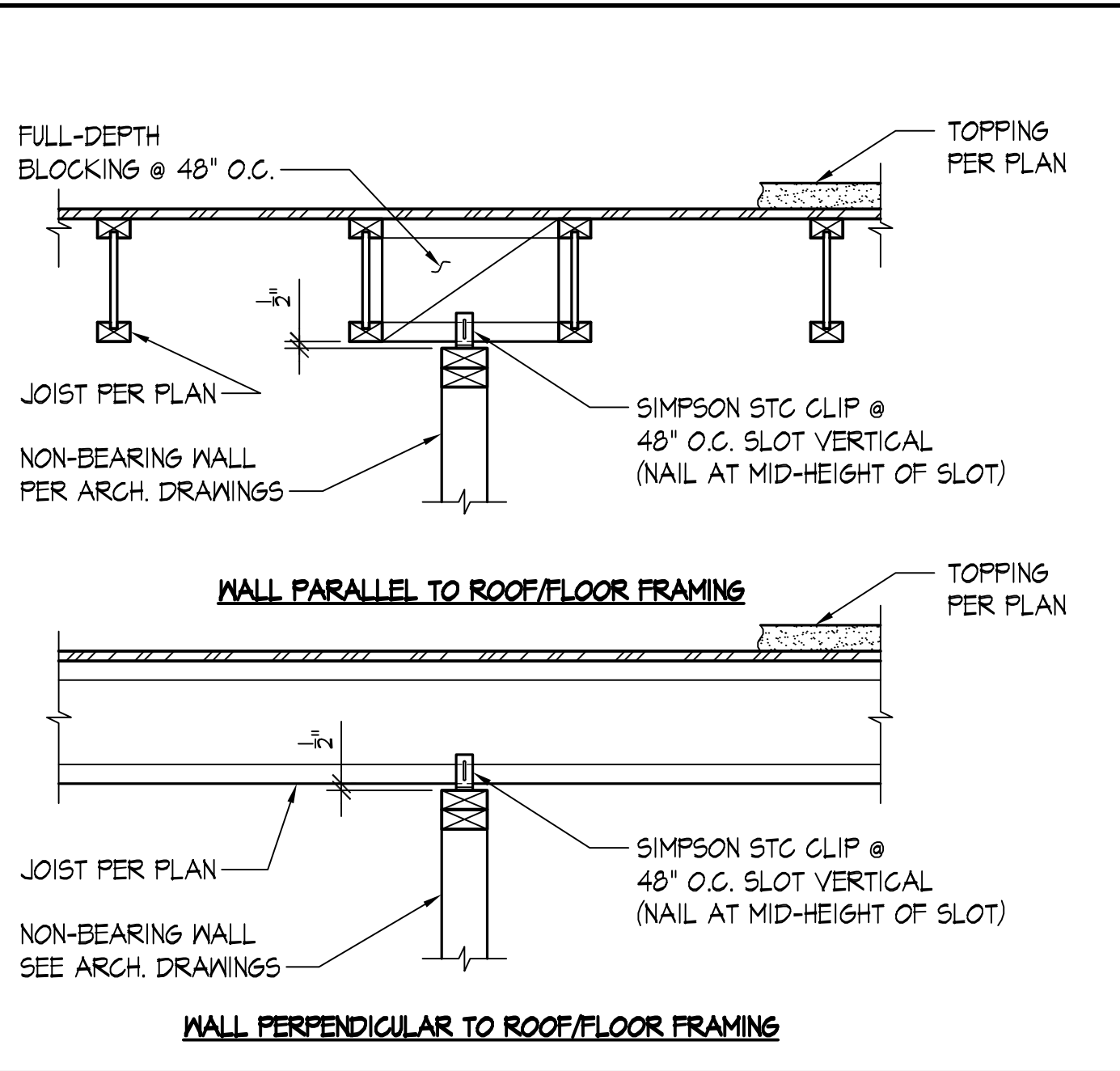
TYPICAL WOOD DETAILS

TYPICAL HOLDOWN TO CONCRETE AT RIM JOIST SCALE: NONE

12



TYPICAL NON-STRUCTURAL WALL SUPPORT (BOTTOM) - I-JOIST SCALE: NONE 1



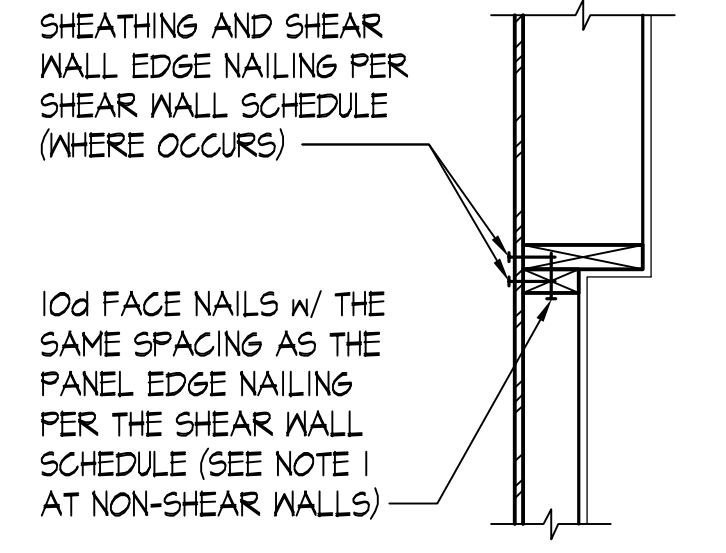
TYPICAL NON-STRUCTURAL WALL SUPPORT (TOP) - I-JOIST SCALE: NONE 2

CEILING JOIST SCHEDULE	
SIZE	MAX. SPAN
2x4 @ 24" O.C. 2x4 @ 16" O.C.	8'-0" 9'-2"
2x6 @ 24" O.C. 2x6 @ 16" O.C.	12'-6" 14'-4"
2x8 @ 24" O.C. 2x8 @ 16" O.C.	16'-6" 19'-0"
2x10 @ 24" O.C. 2x10 @ 16" O.C.	21'-2" 24'-3"

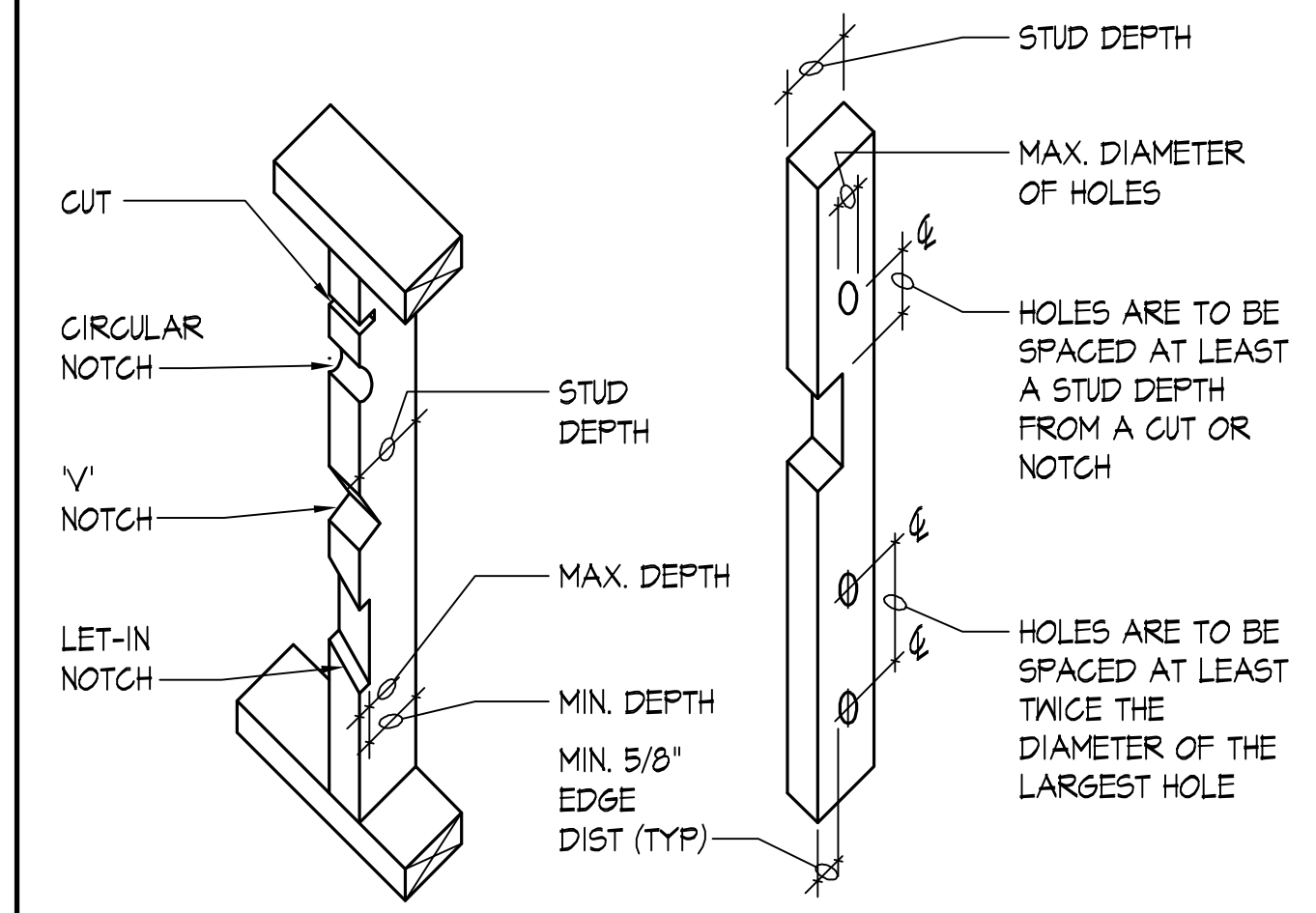
NOTES:
CEILING JOIST TABLE BASED ON
HF #2, Fb=850 PSI (REPETITIVE
MEMBER USE), Fv = 150 PSI
E=1.3x10⁶ PSI, DEFL. < L/240
ATTIC LIVE LOAD = 10.0 PSF
CEILING DEAD LOAD = 5.0 PSF

CEILING JOIST SCHEDULE SCALE: NONE 3

- NOTES:
- AT NON-SHEAR WALLS, NAIL STUDS TOGETHER WITH 10d-F NAILS @ 8" O.C.
 - ADDITIONAL STUDS REQUIRED AS NAILERS, ETC. ARE NOT SHOWN.



VARYING WALL SIZE



A. CUTTING AND NOTCHING WOOD STUDS
(DO NOT NOTCH MORE THAN 3 ADJACENT STUDS w/o REVIEW BY ENGINEER)

BEARING WALL STUDS:

STUD SIZE	MAX. DEPTH OF SAW CUT OR NOTCH	MIN. DEPTH REMAINING AFTER CUT OR NOTCH
2x4	1/8"	2-3/8"
2x6	1-3/8"	4-1/8"
2x8	1-7/8"	5-3/8"

NON-BEARING WALL STUDS:

STUD SIZE	MAX. DEPTH OF SAW CUT OR NOTCH	MIN. DEPTH REMAINING AFTER CUT OR NOTCH
2x4	1-1/2"	2"
2x6	2-3/8"	3-1/8"
2x8	3"	4-1/4"

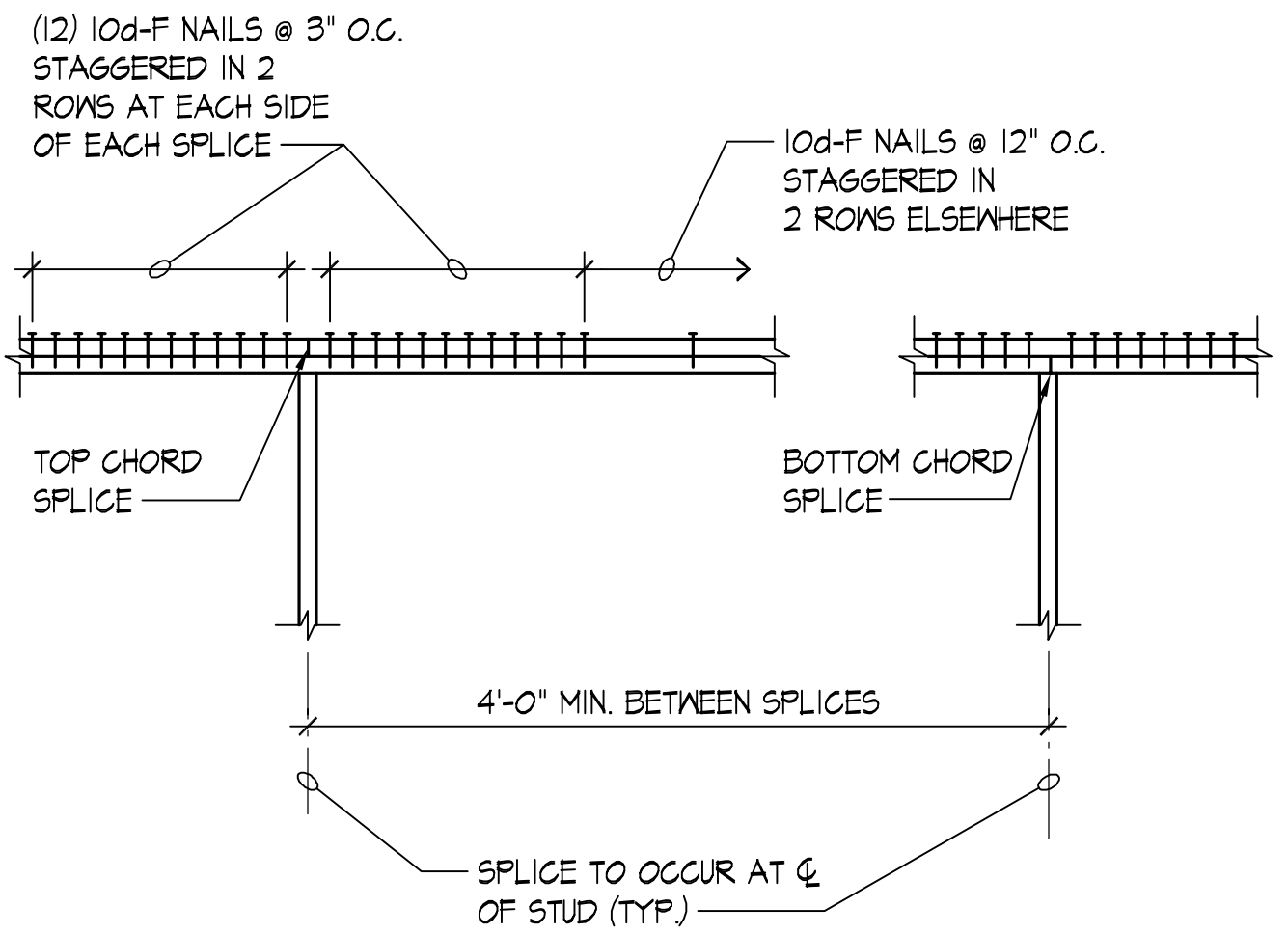
B. HOLES IN WOOD STUDS

BEARING WALL:

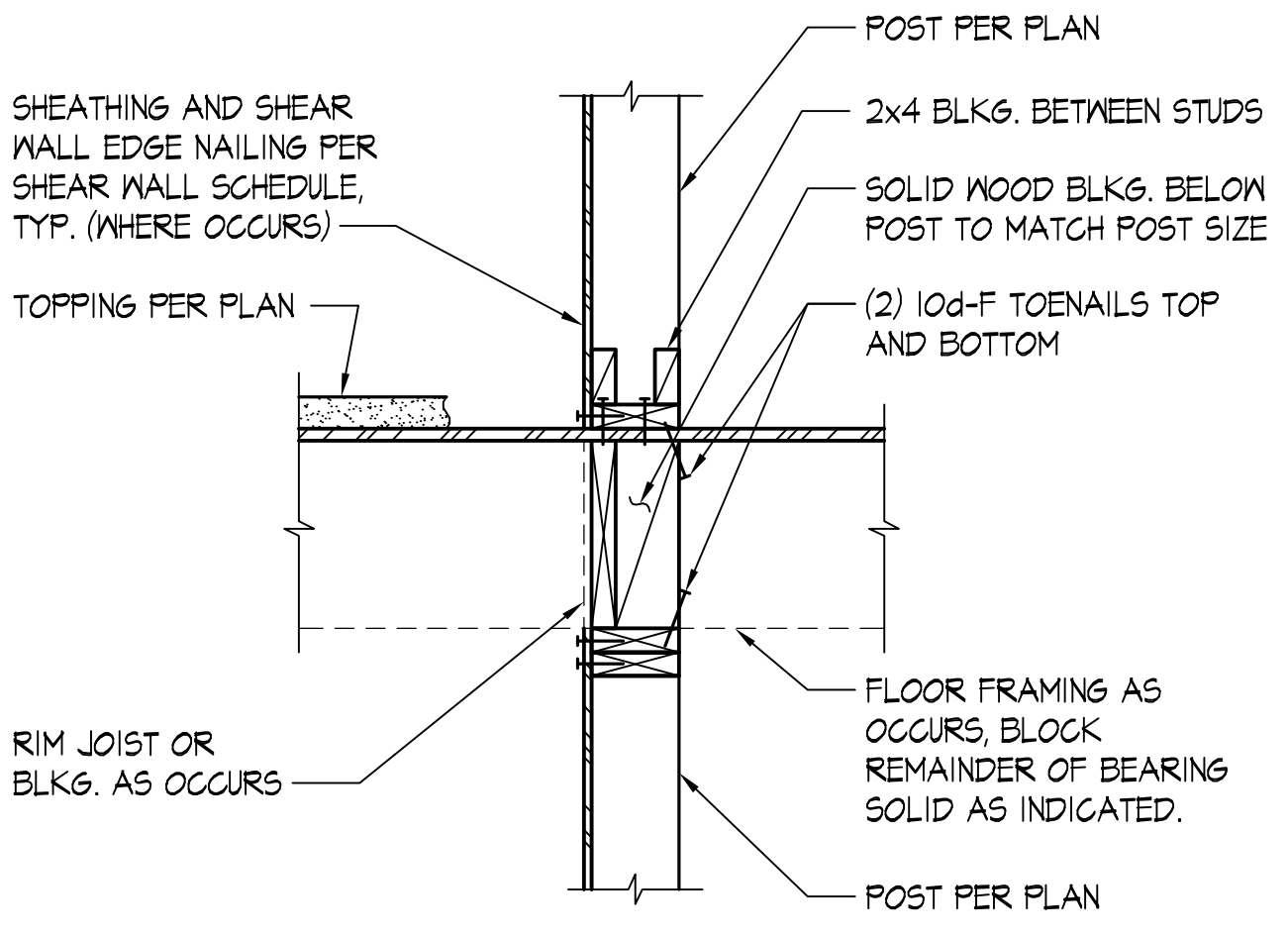
STUD SIZE	MAX. DIAMETER OF HOLE
2x4	1-1/2"
2x6	2-3/8"
2x8	3"

NON-BEARING WALL:

STUD SIZE	MAX. DIAMETER OF HOLE
2x4	2-1/4"
2x6	3-3/8"
2x8	4-1/2"

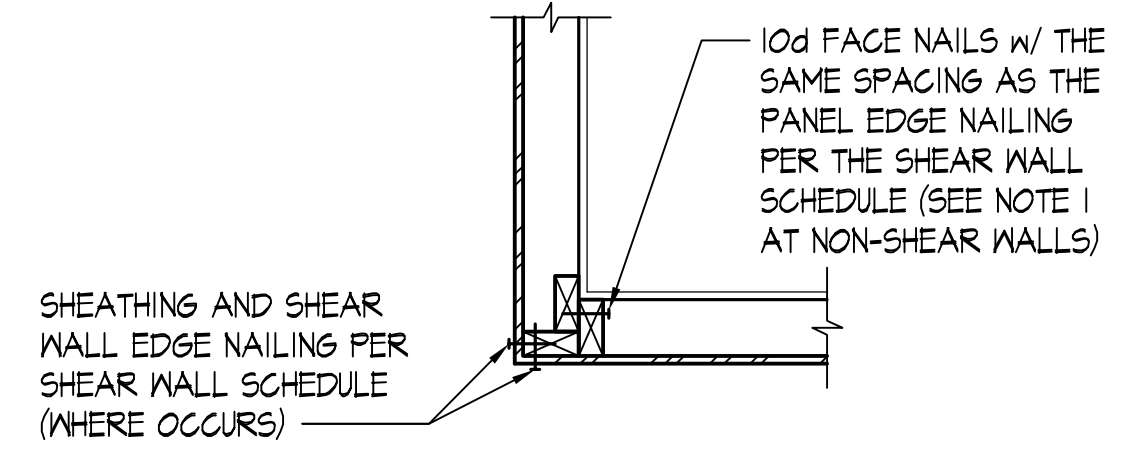


TYPICAL TOP PLATE SPLICE SCALE: NONE 6

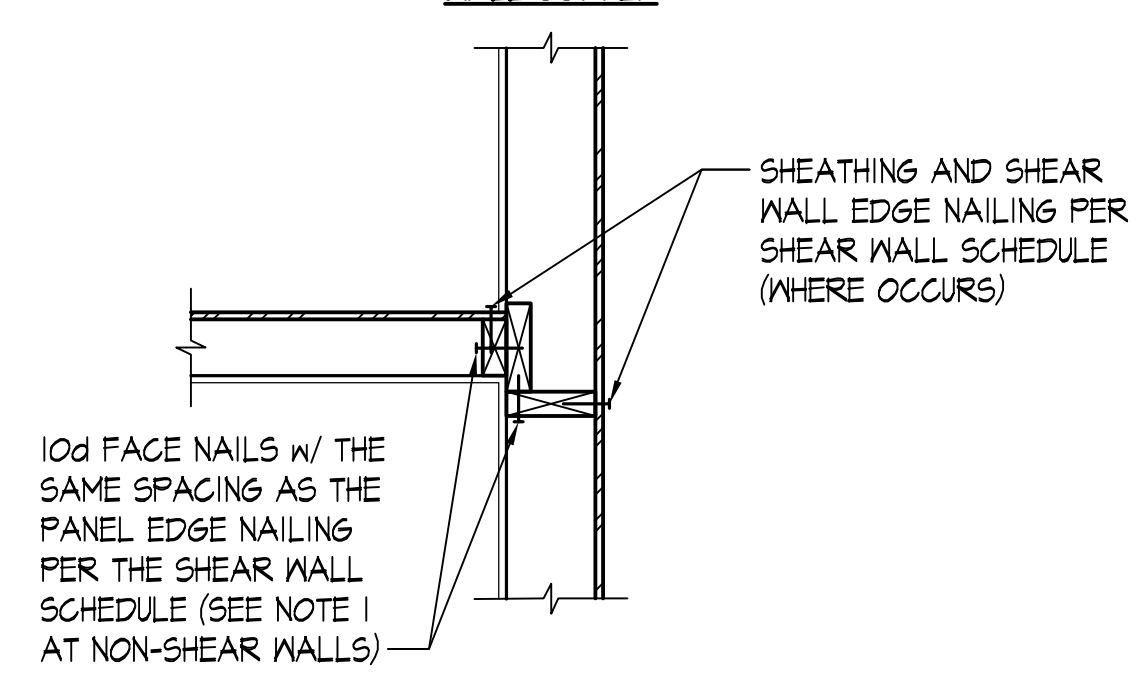


NOTE:
FRAMING CONDITIONS VARY,
FOR INFORMATION NOT
NOTED SEE PLAN &
APPROPRIATE DETAILS

TYPICAL POST AT FLOOR SCALE: NONE 7

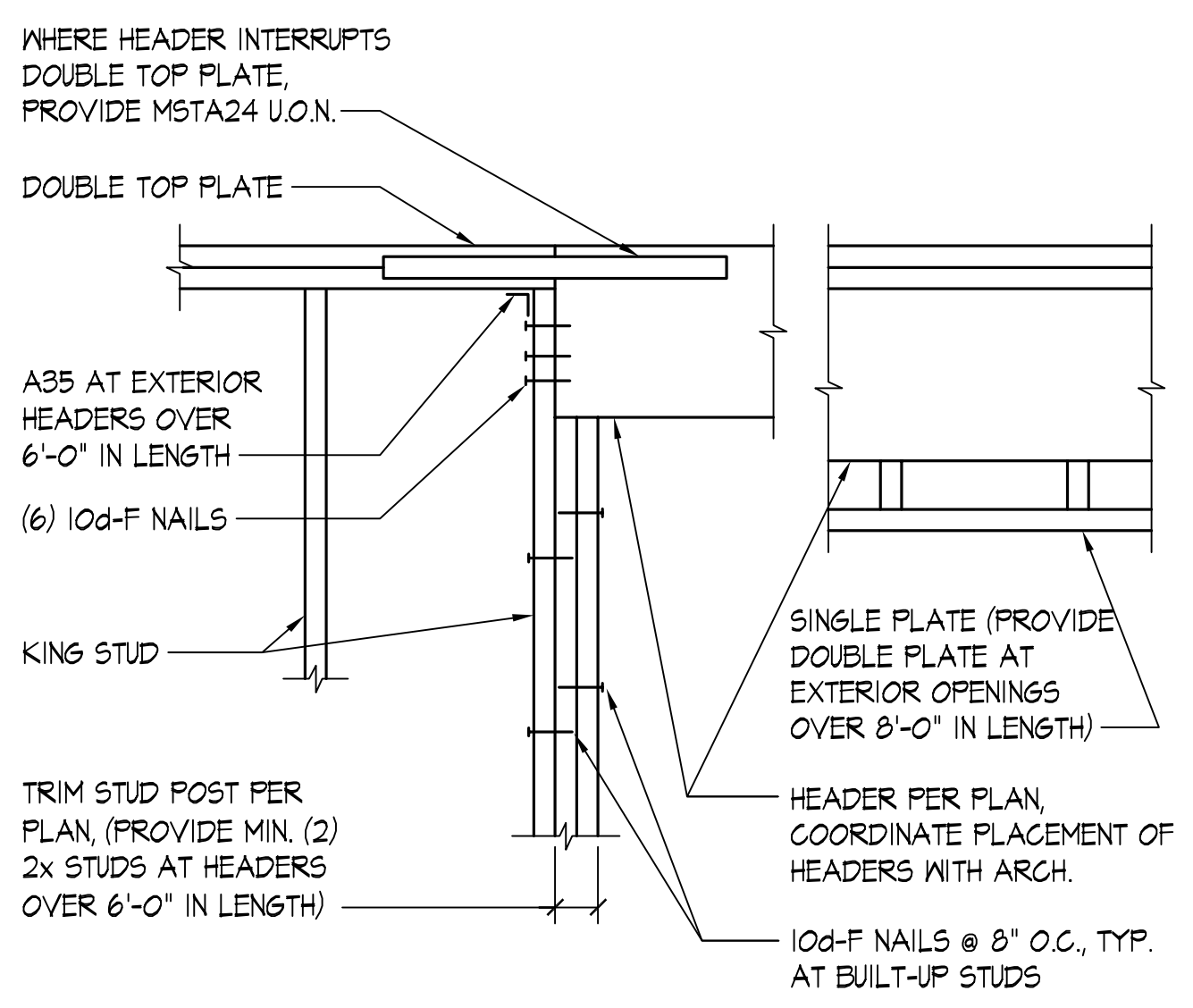


WALL CORNER

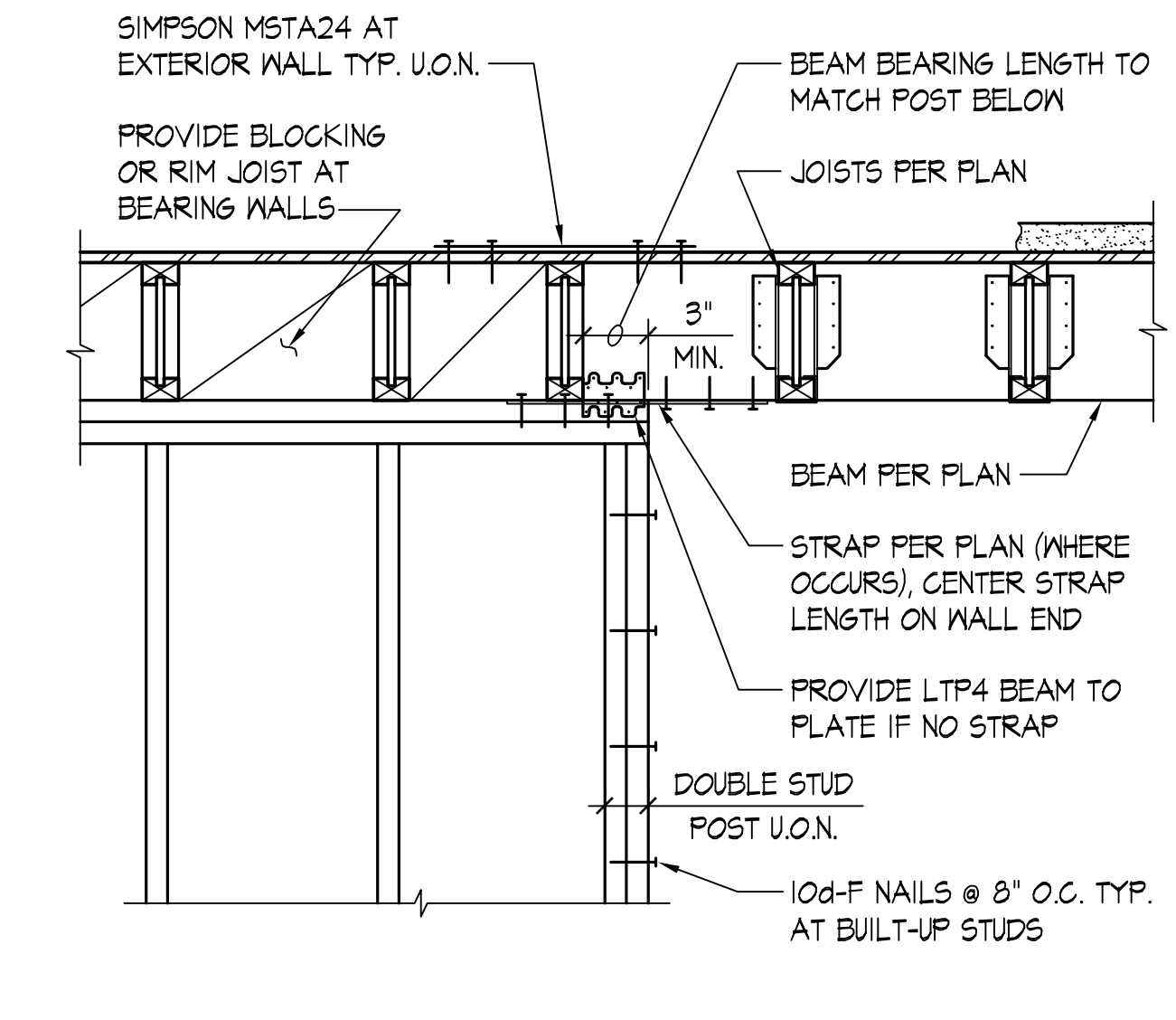


WALL INTERSECTION

TYPICAL WALL INTERSECTIONS - RESIDENTIAL SCALE: NONE 8



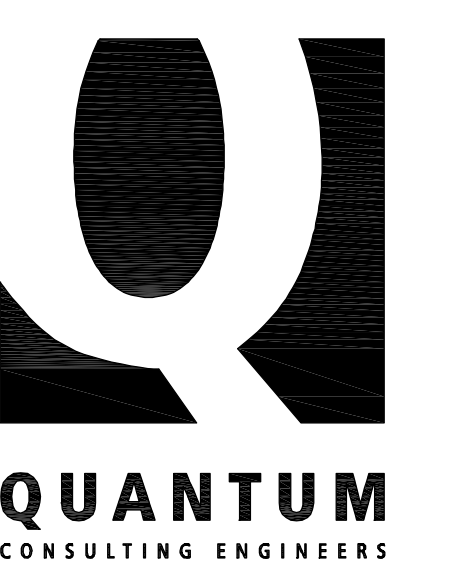
TYPICAL HEADER DETAIL SCALE: NONE 10



TYPICAL FLUSH BEAM DETAIL SCALE: NONE 11

TYPICAL ALLOWABLE HOLES AND NOTCHES IN STUDS SCALE: NONE 9

DETAIL SCALE: NONE 12



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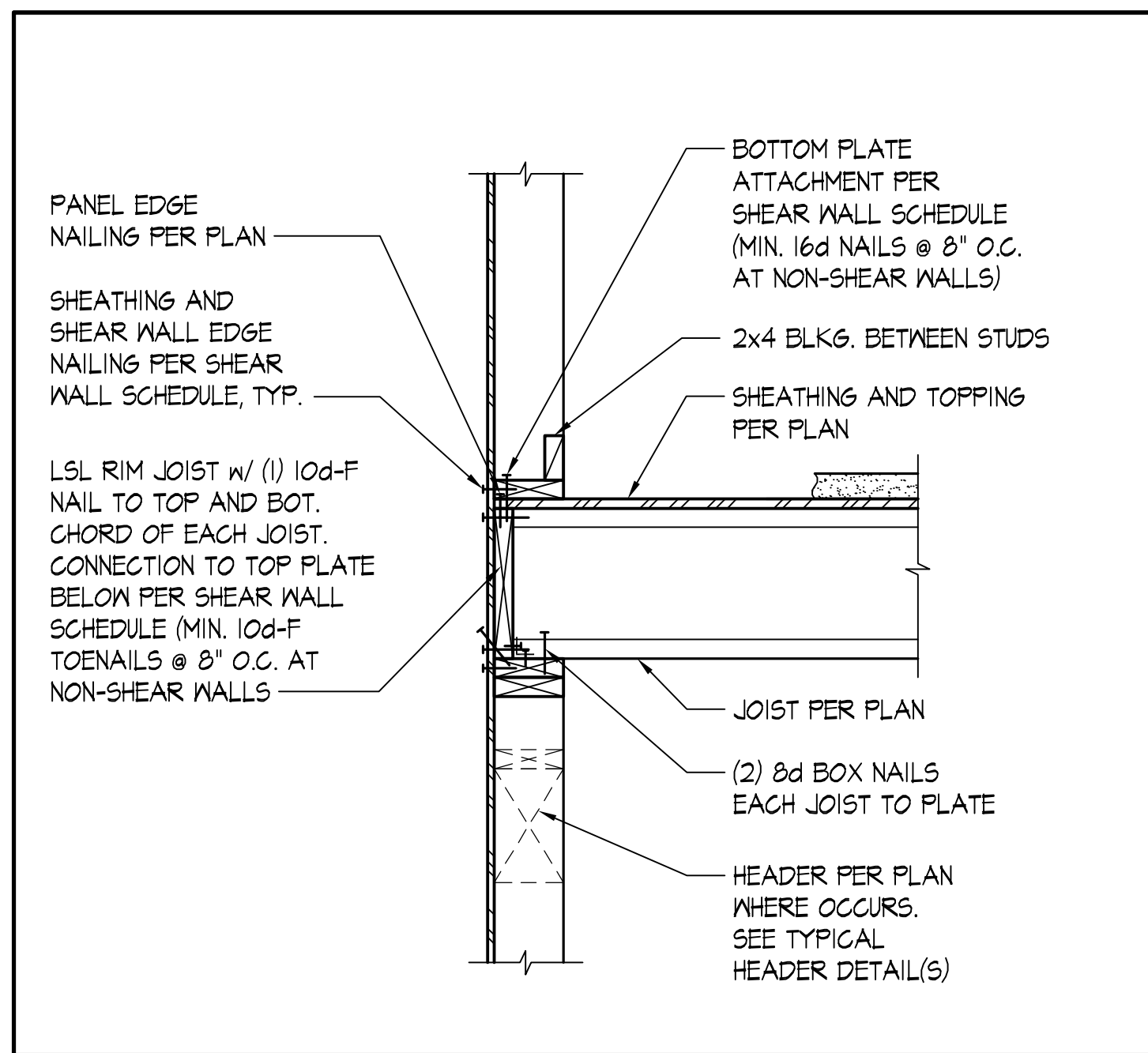
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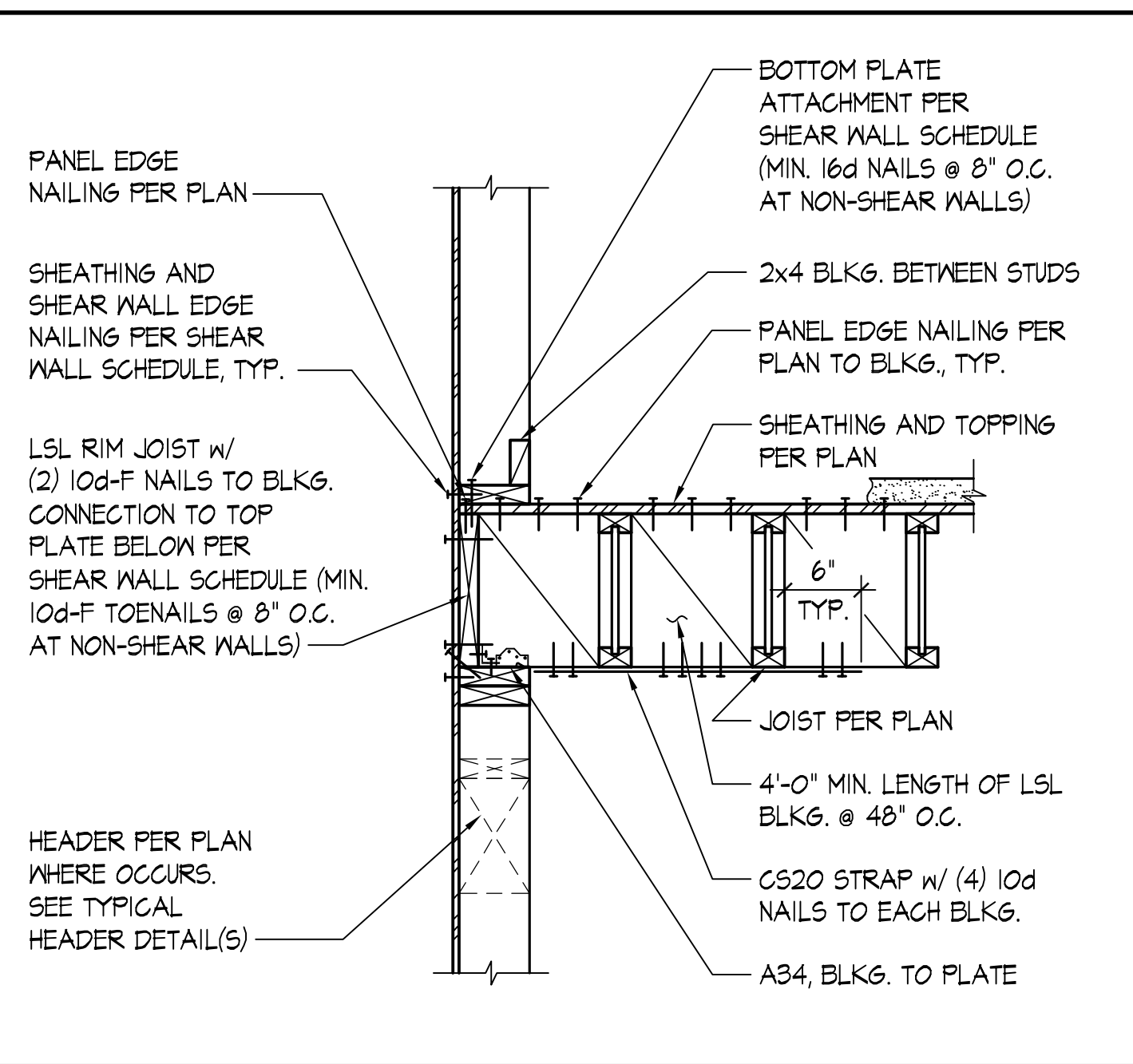
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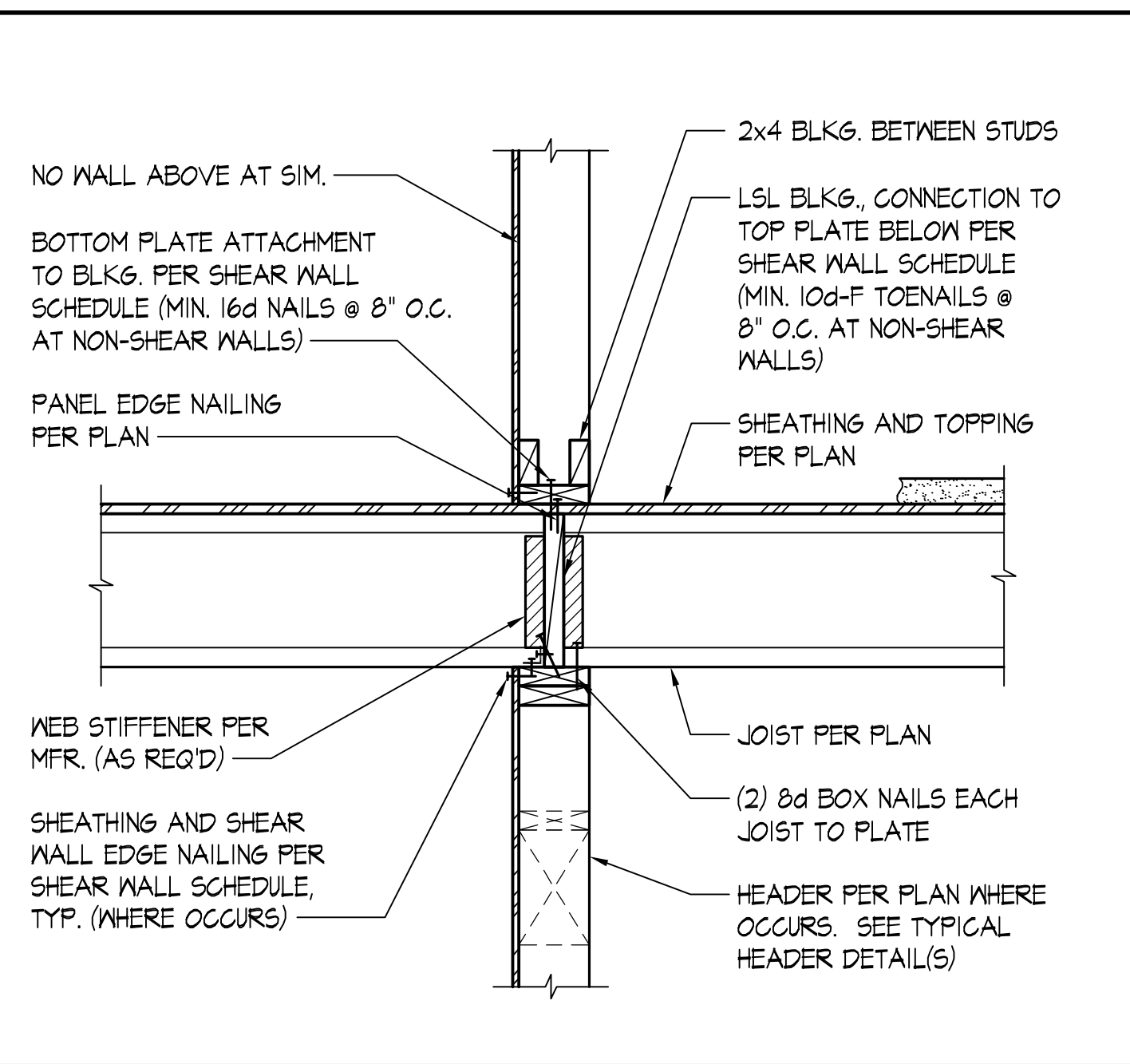
TYPICAL WOOD DETAILS



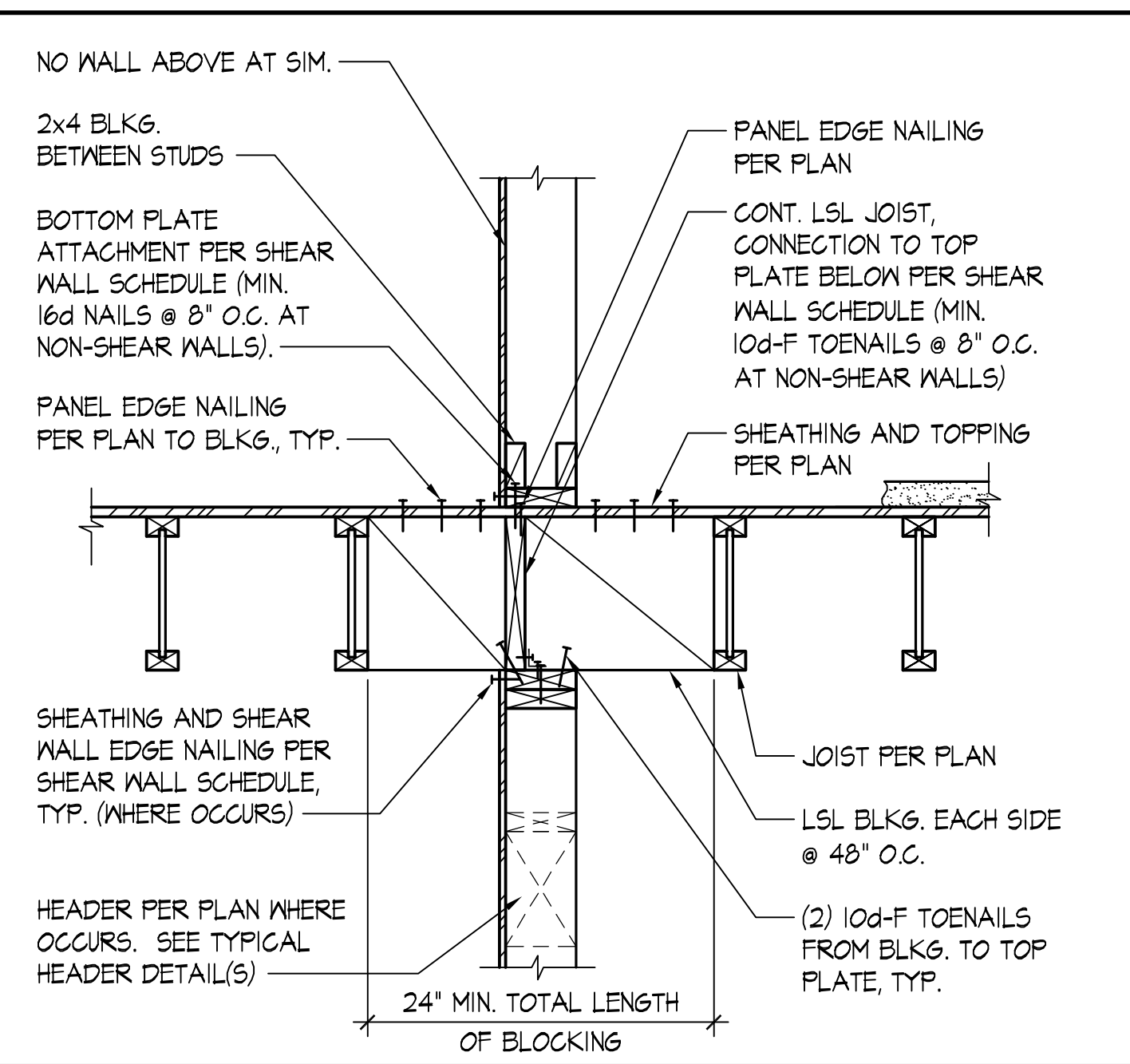
TYPICAL EXTERIOR WALL - I-JOIST PERPENDICULAR SCALE: NONE 1



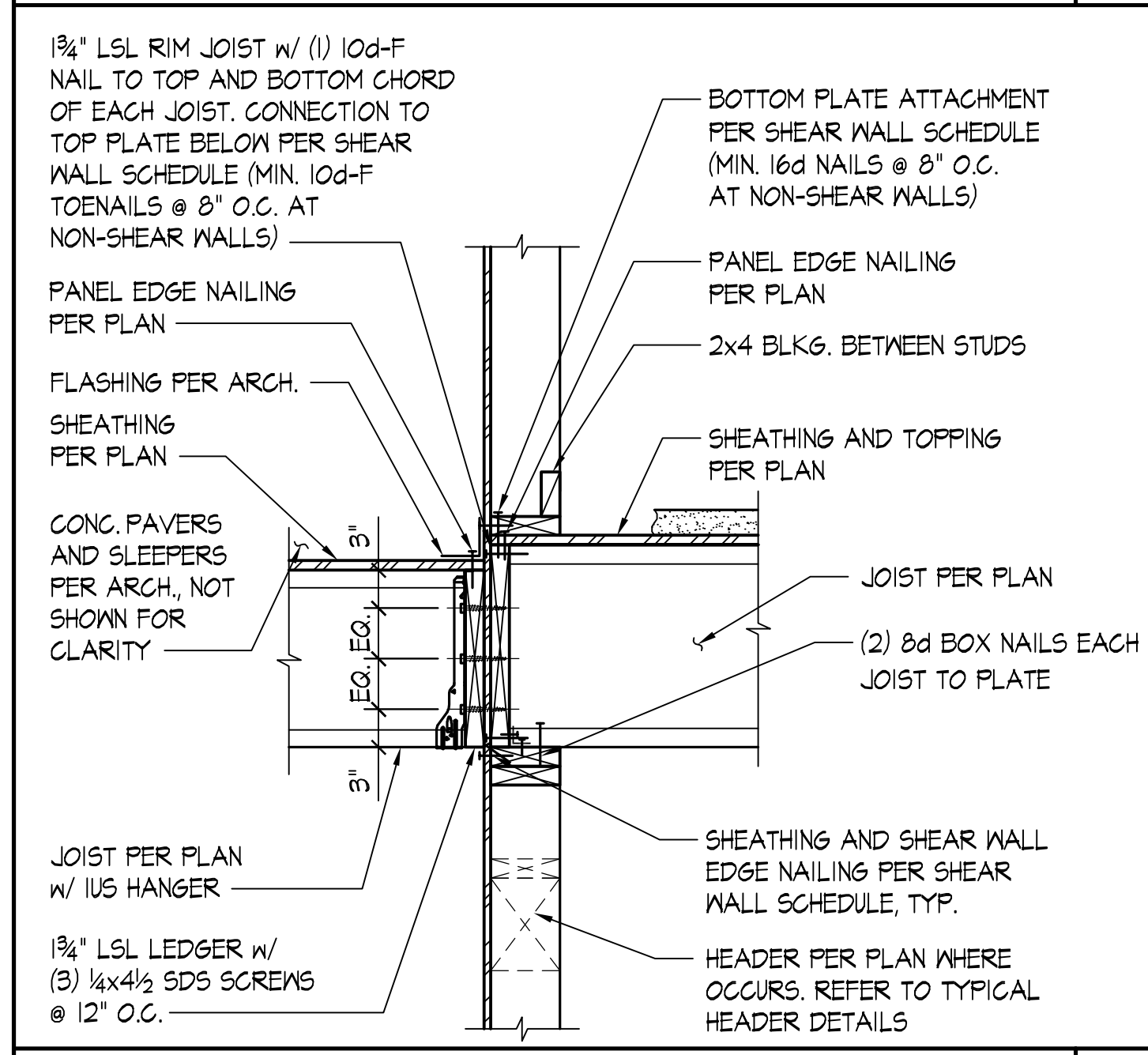
TYPICAL EXTERIOR WALL - I-JOIST PARALLEL SCALE: NONE 2



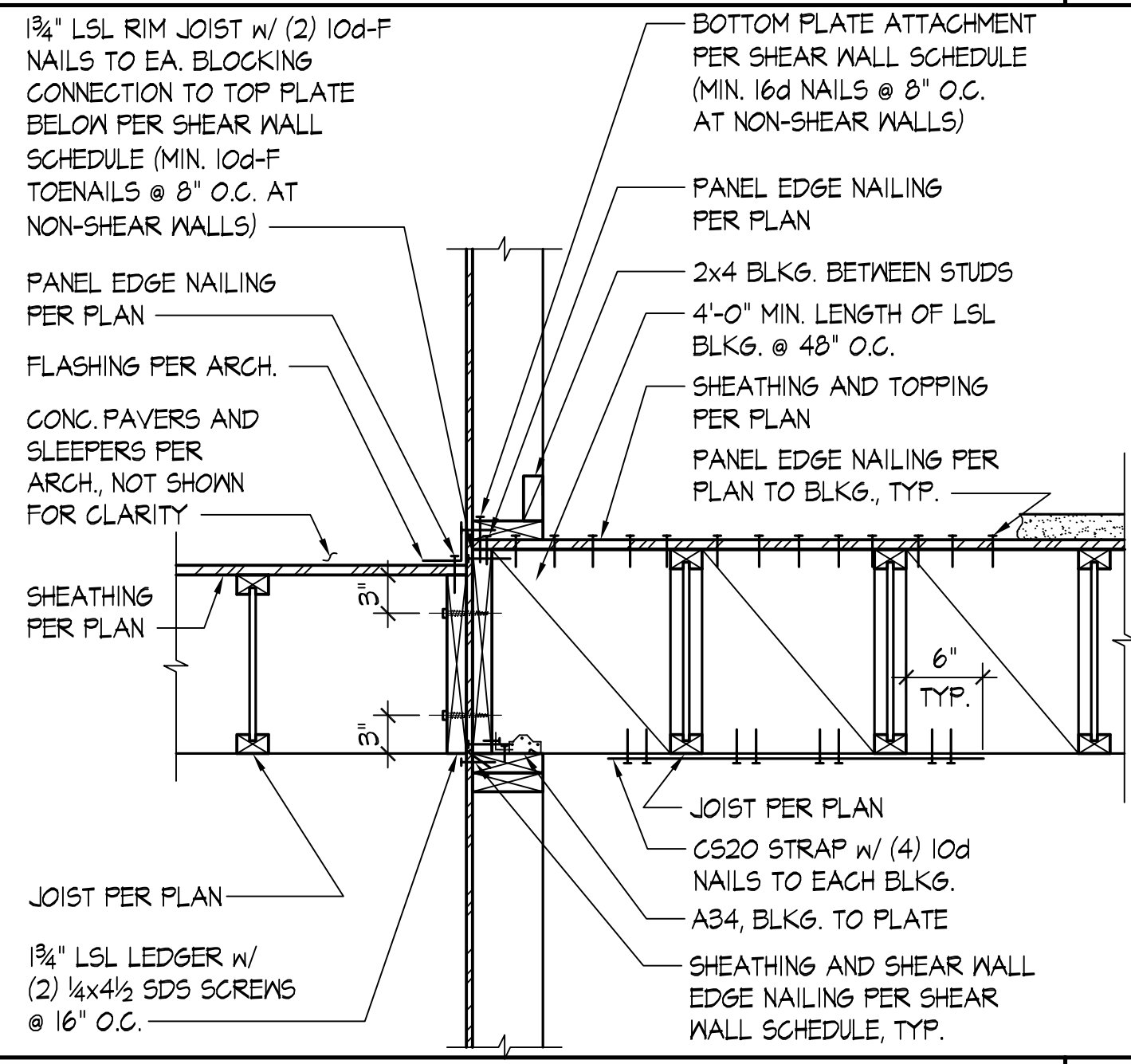
TYPICAL INTERIOR WALL - I-JOIST PERPENDICULAR SCALE: NONE 3



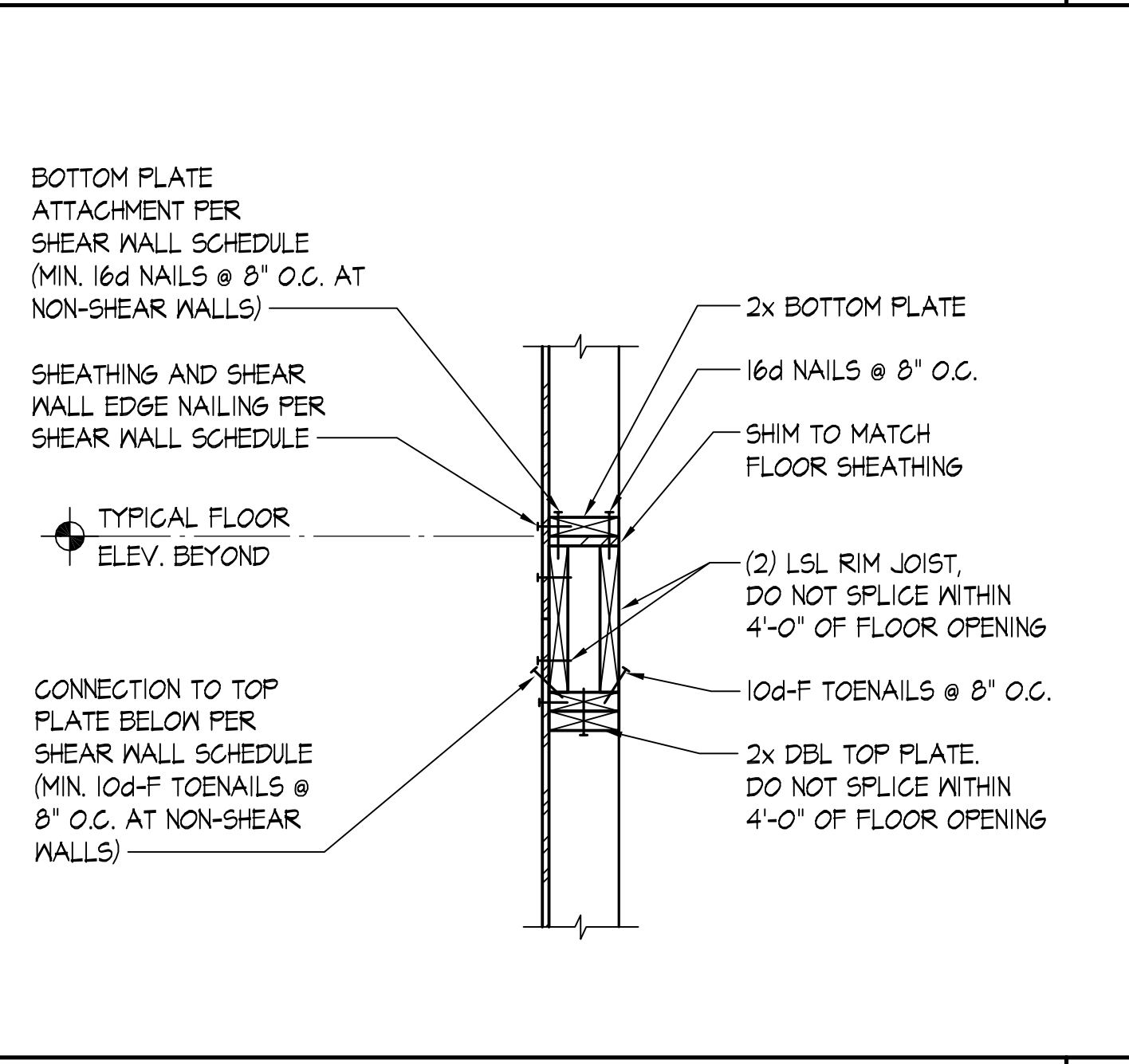
TYPICAL INTERIOR WALL - I-JOIST PARALLEL SCALE: NONE 4



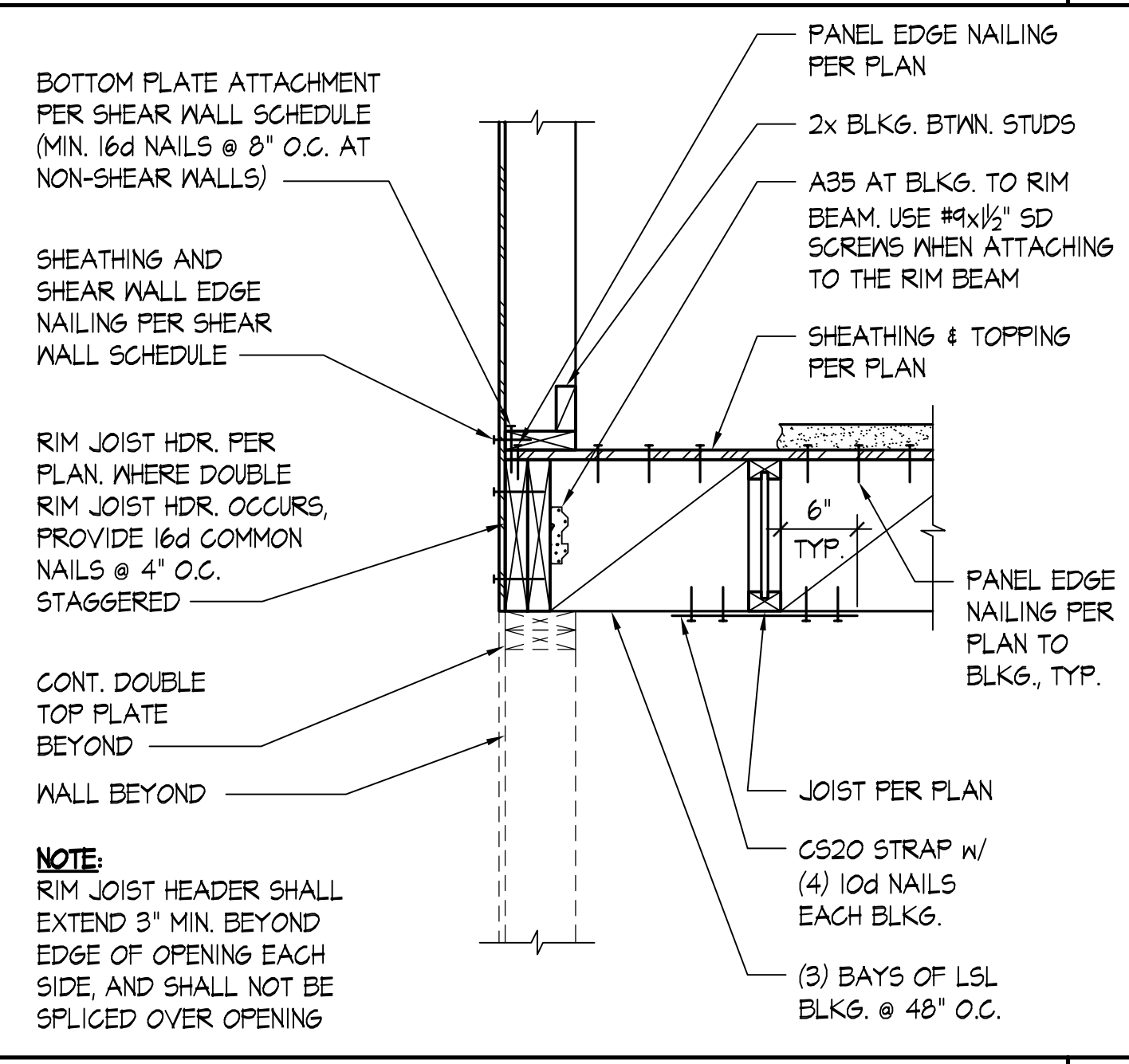
TERRACE TO HOUSE - I-JOIST PERPENDICULAR SCALE: NONE 5



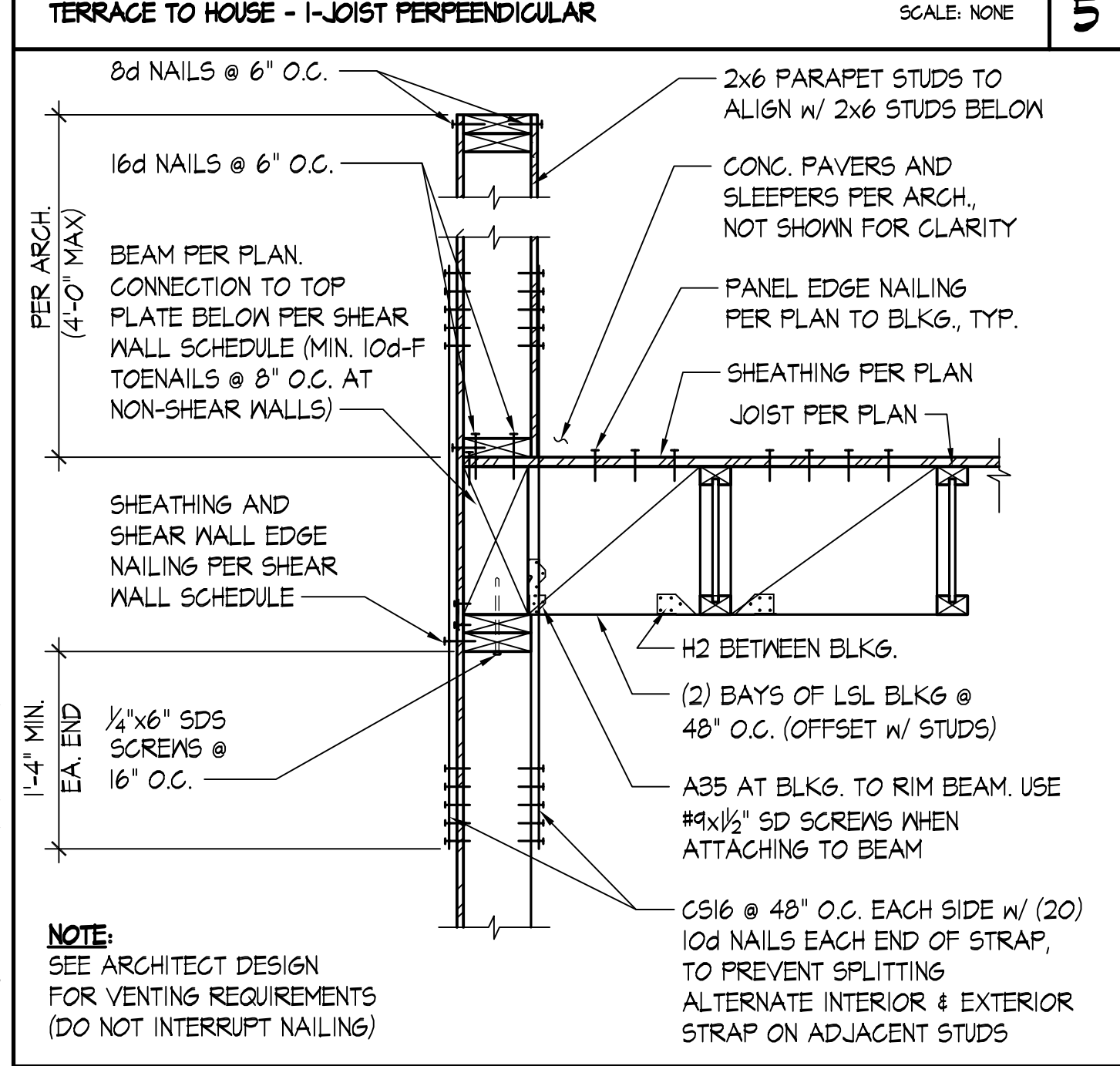
TERRACE TO HOUSE - I-JOIST PARALLEL SCALE: NONE 6



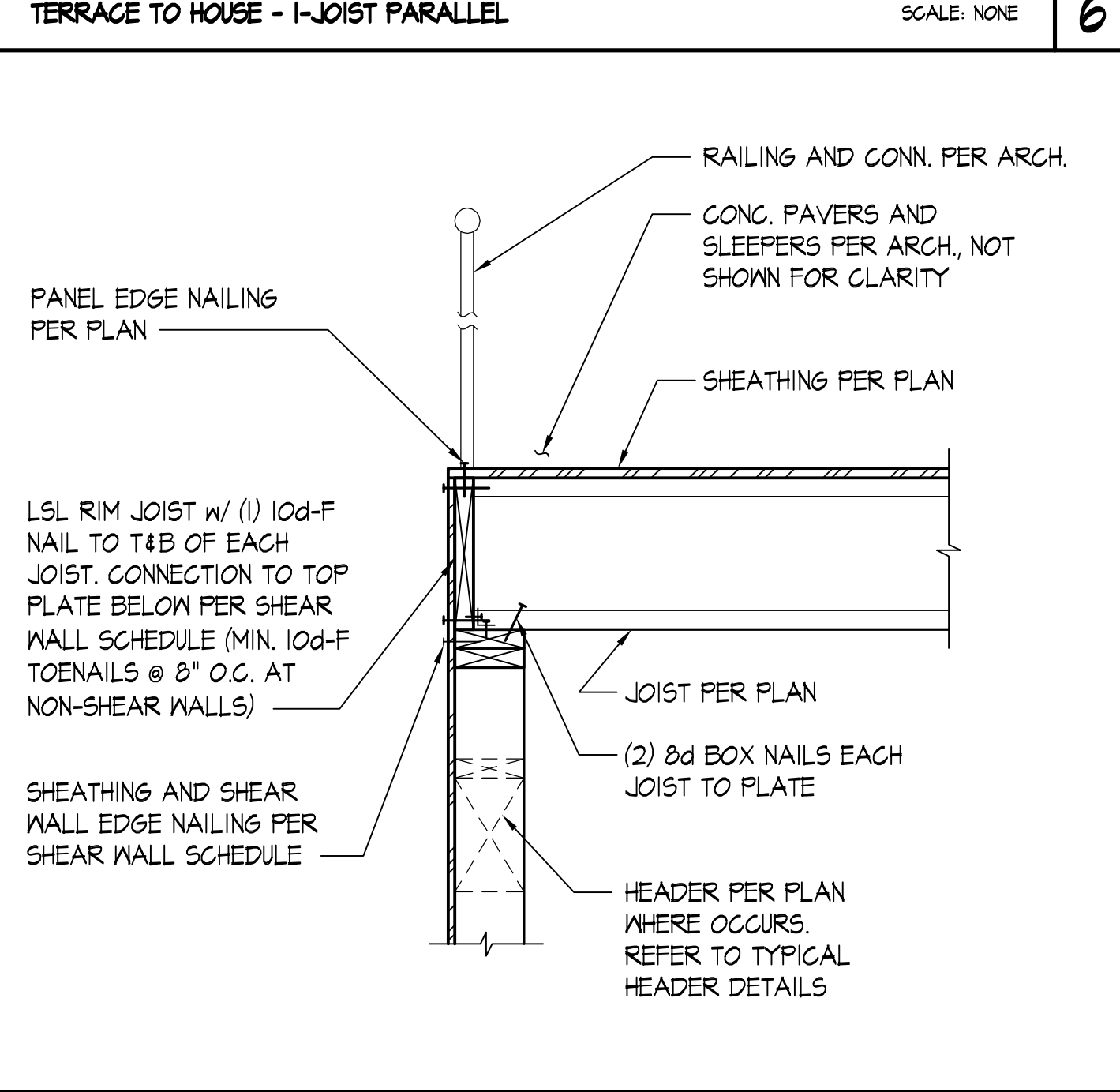
EXTERIOR WALL AT FLOOR OPENING - I-JOIST SCALE: NONE 7



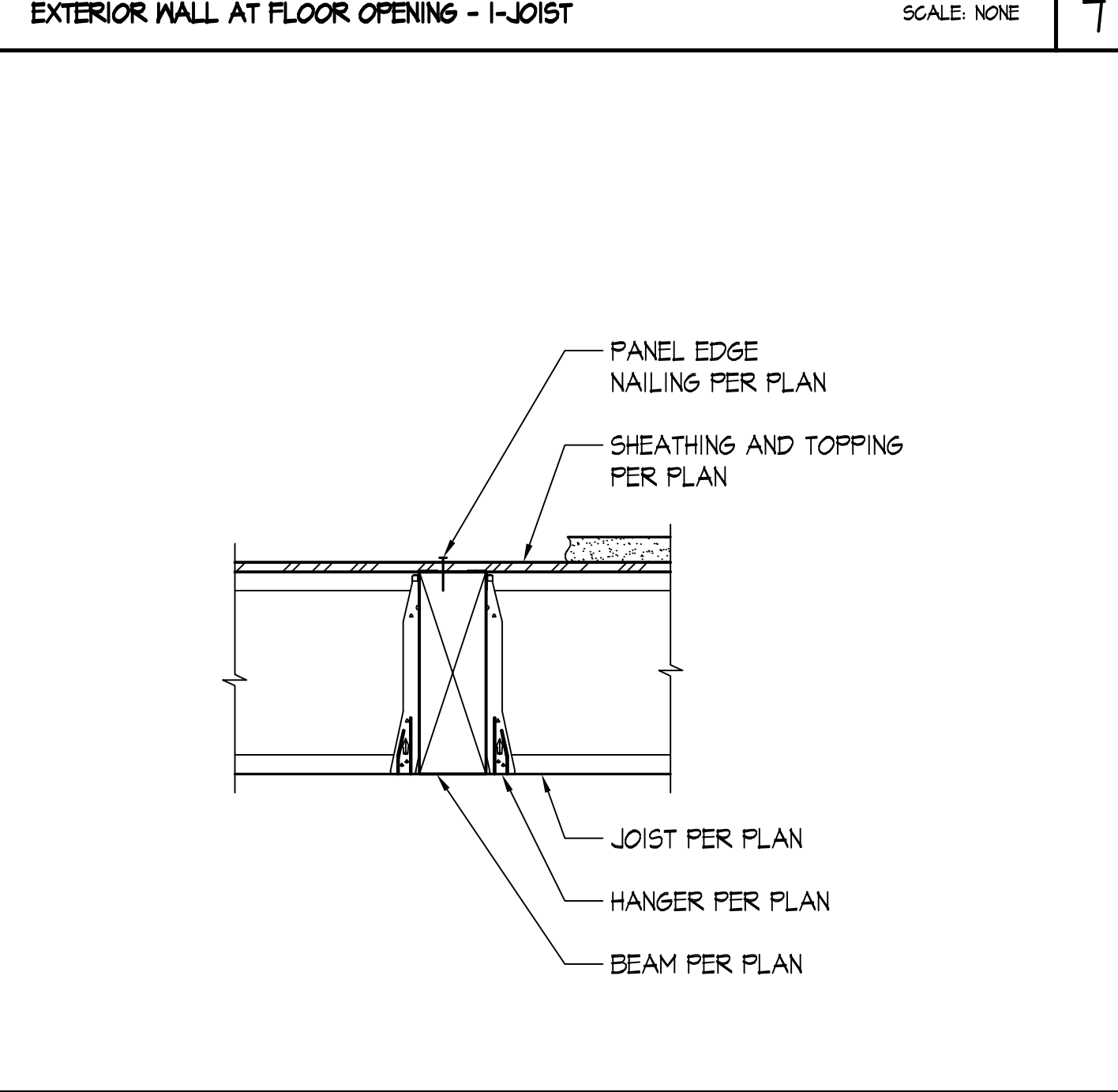
FLUSHED FRAMED HEADER SCALE: NONE 8



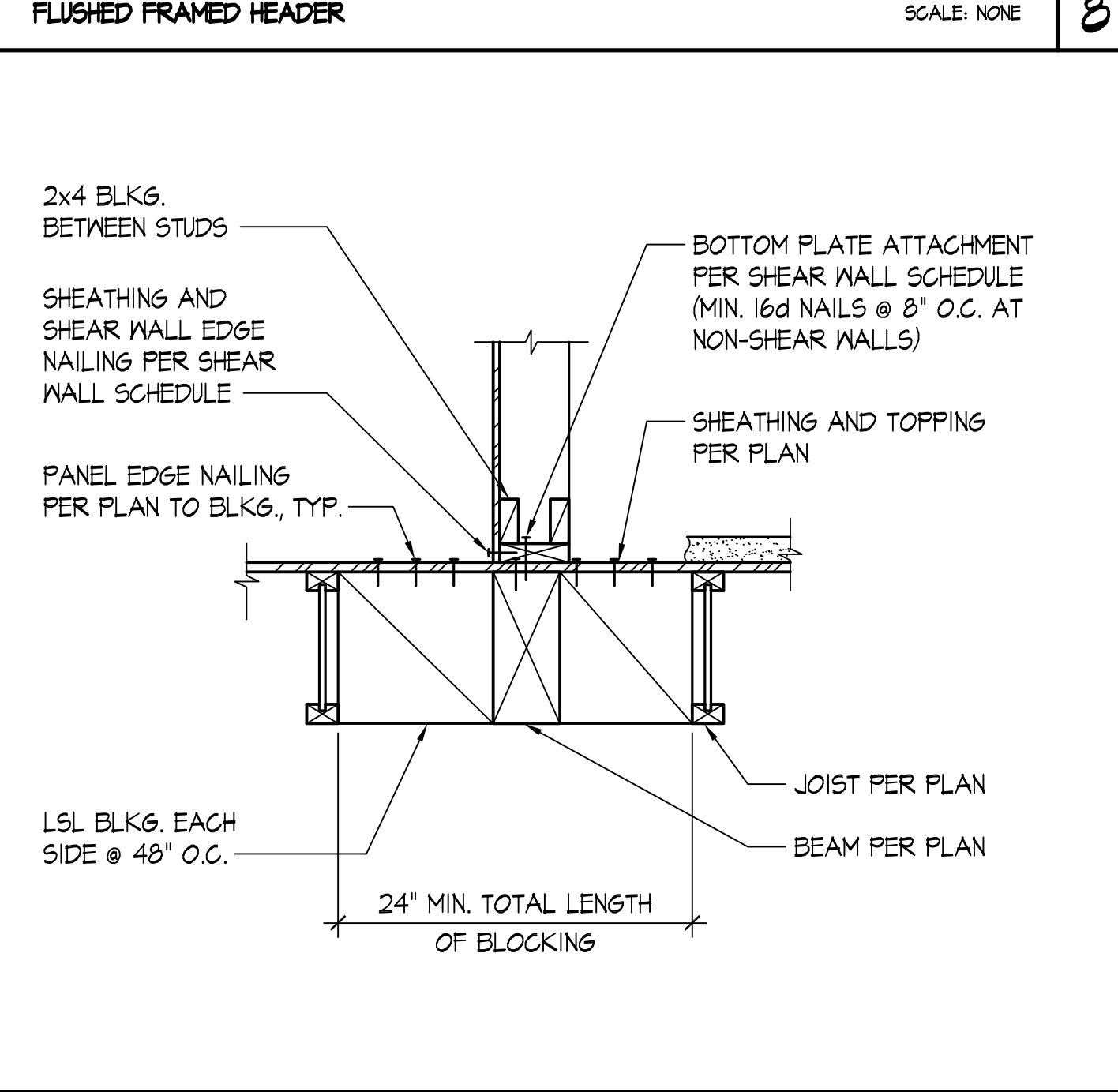
PARAPET AT COVERED TERRACE SCALE: NONE 9



DECK EDGE - JOIST PERPENDICULAR TO WALL SUPPORT SCALE: NONE 10



TYPICAL I-JOIST TO FLUSH BEAM CONNECTION SCALE: NONE 11

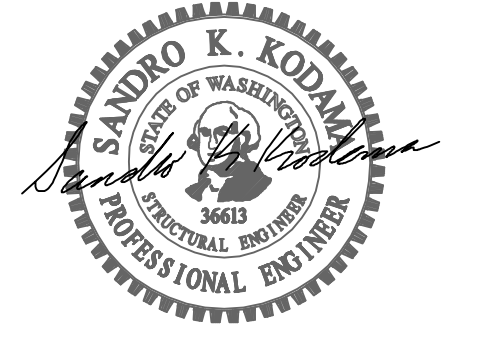


TYPICAL STRUCTURAL WALL TO PARALLEL BEAM BELOW - I-JOIST PARALLEL SCALE: NONE 12

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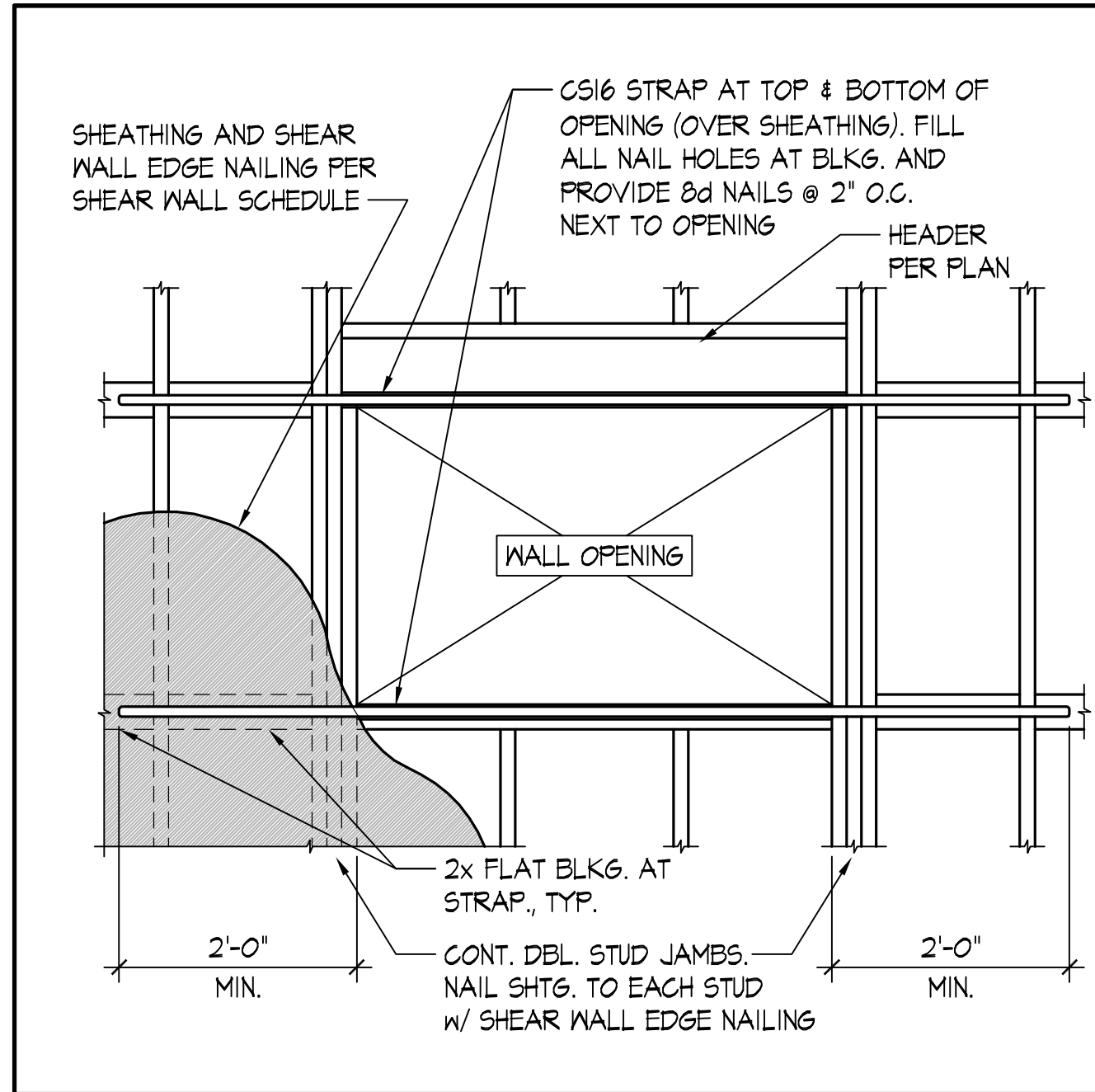
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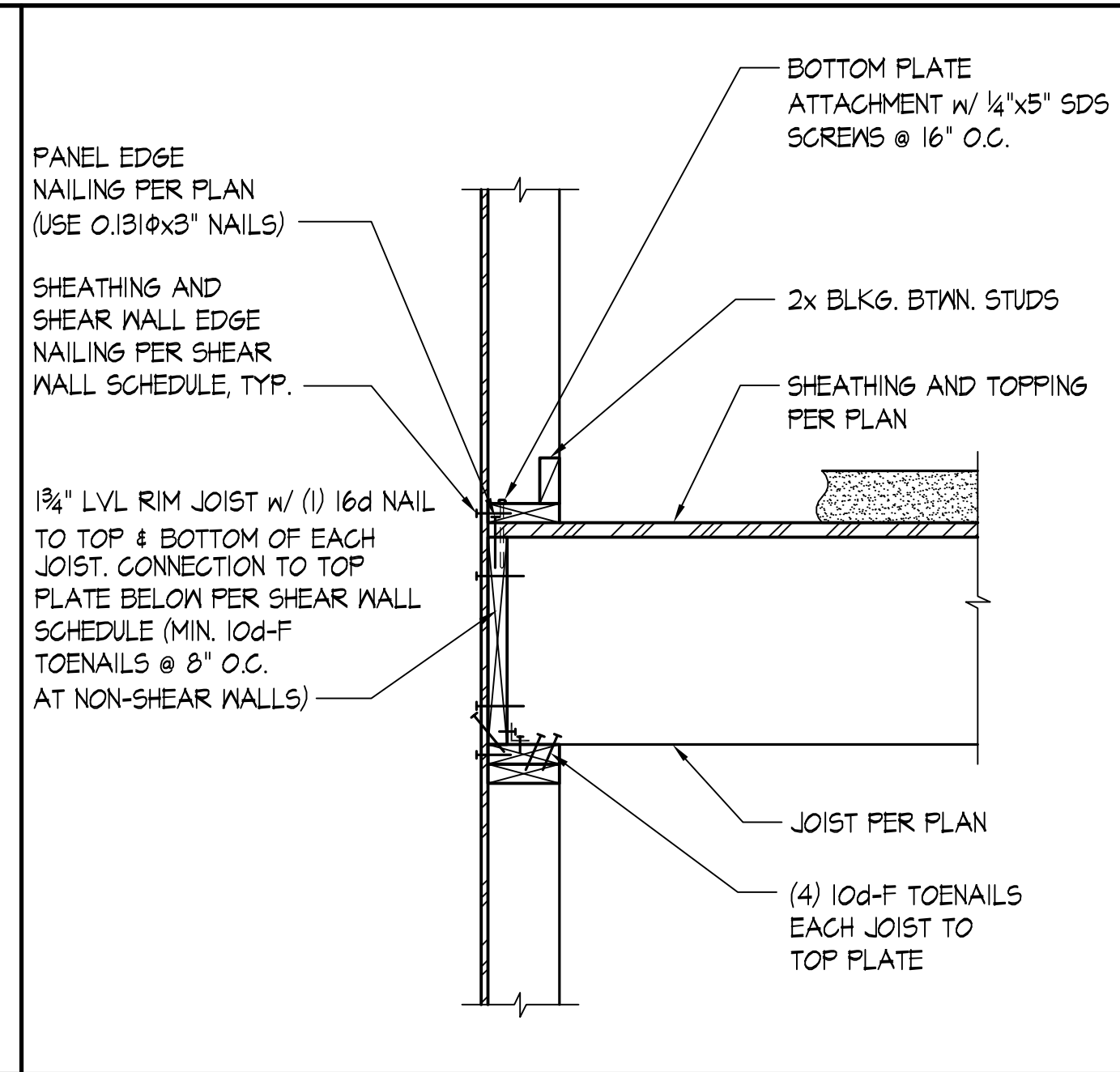
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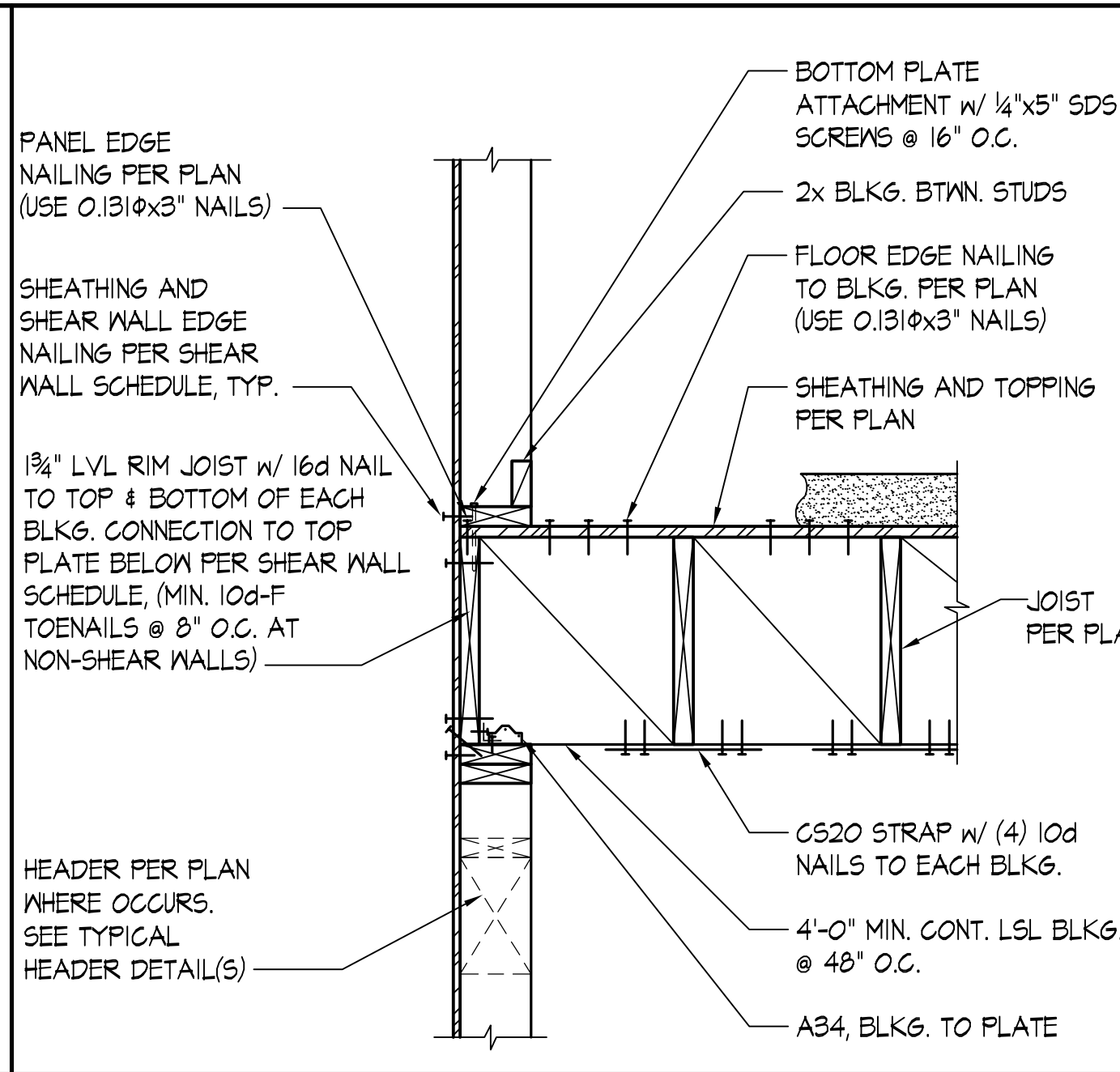
TYPICAL FLOOR DETAILS



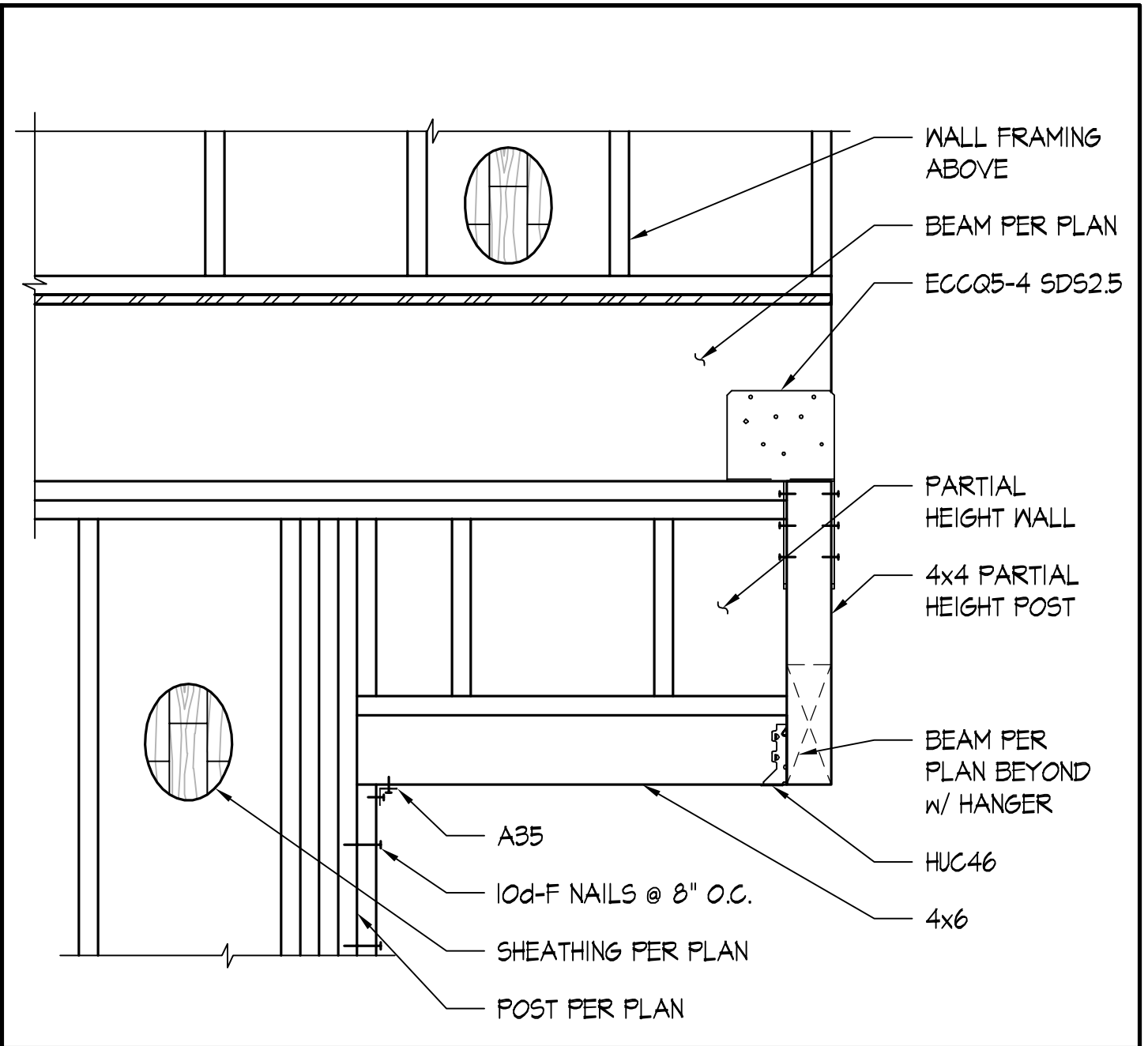
STRAPPING AROUND SHEAR WALL OPENING SCALE: NONE



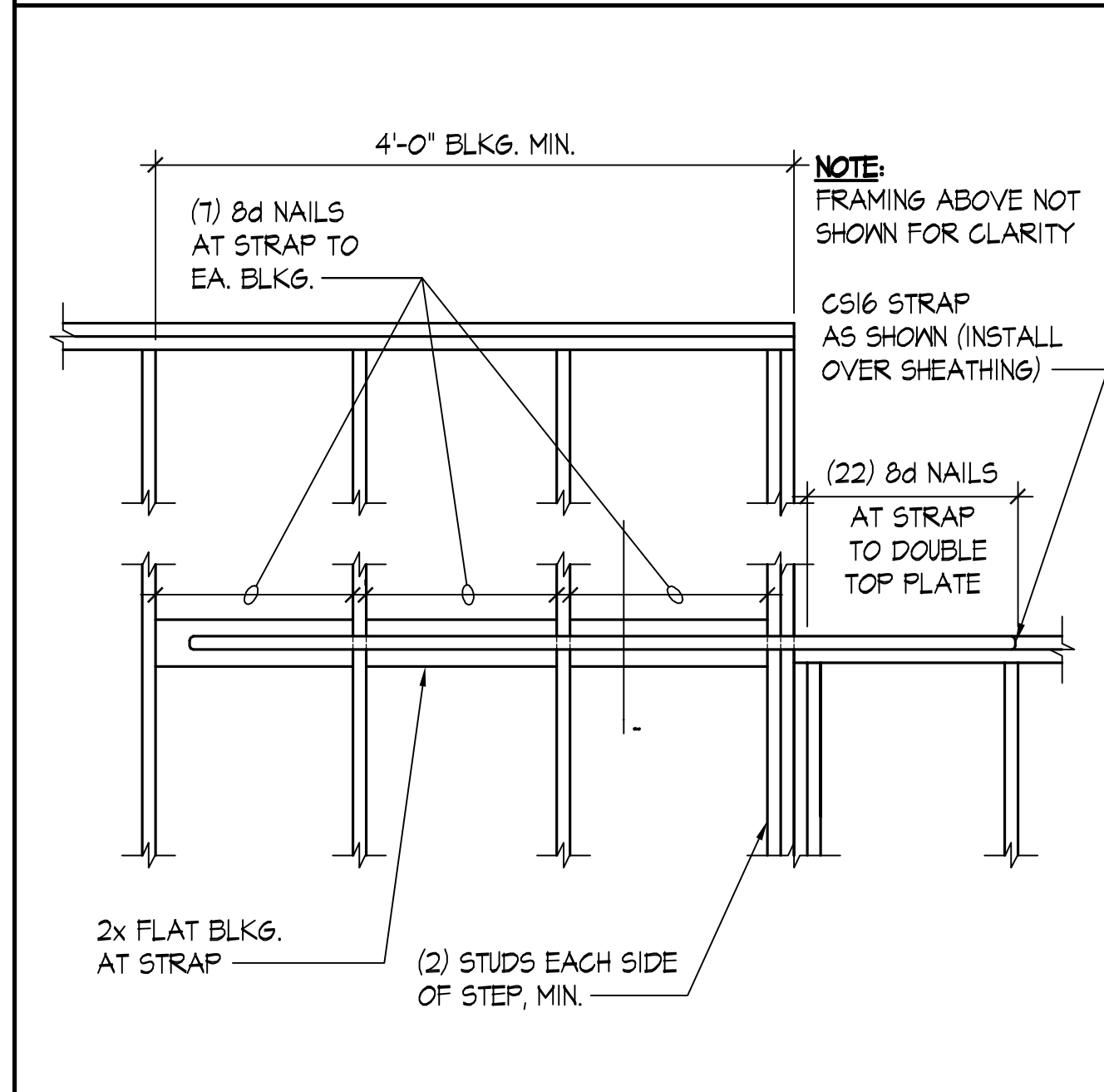
EXTERIOR WALL AT GARAGE - LVL JOIST PERPENDICULAR SCALE: NONE



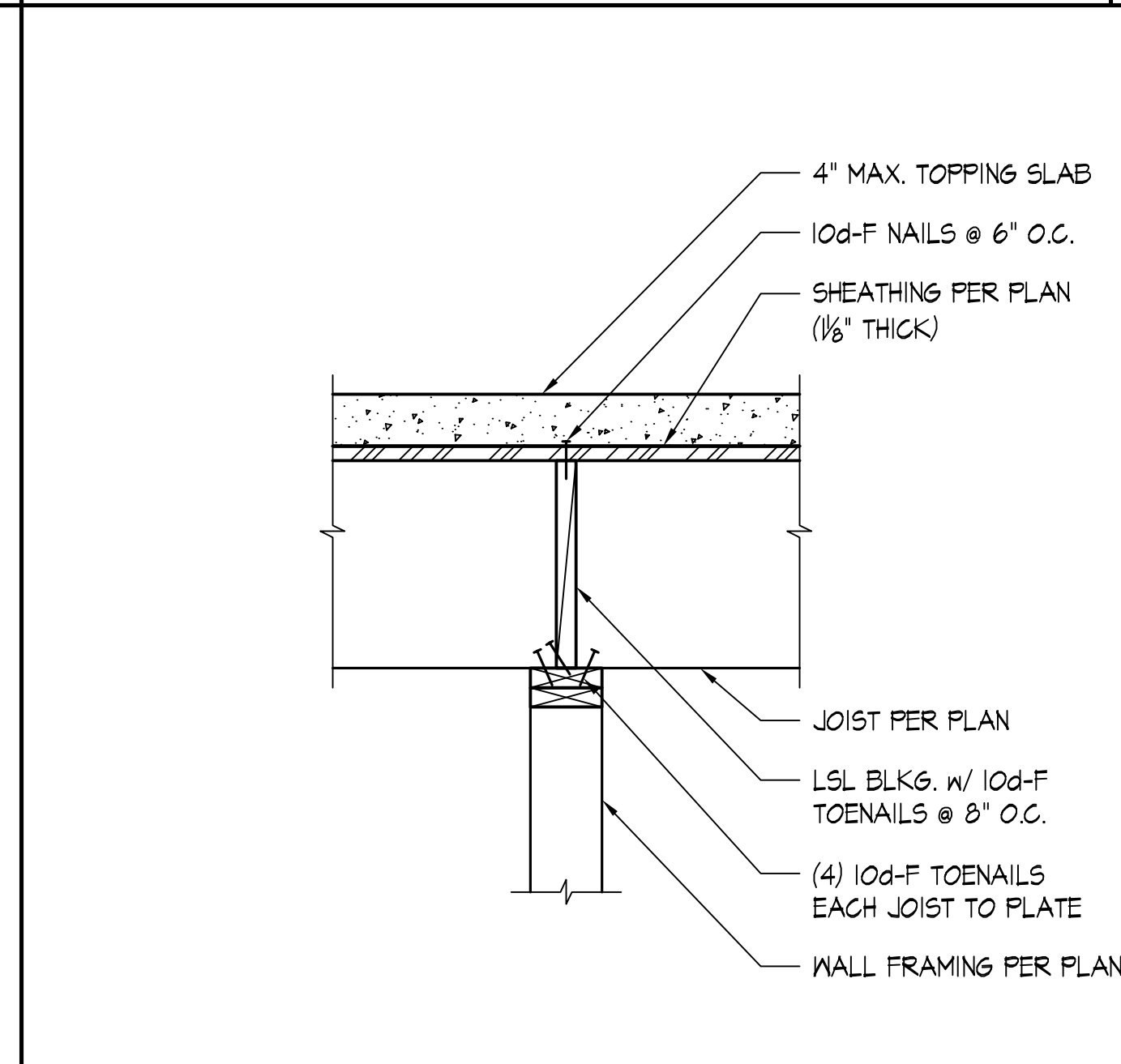
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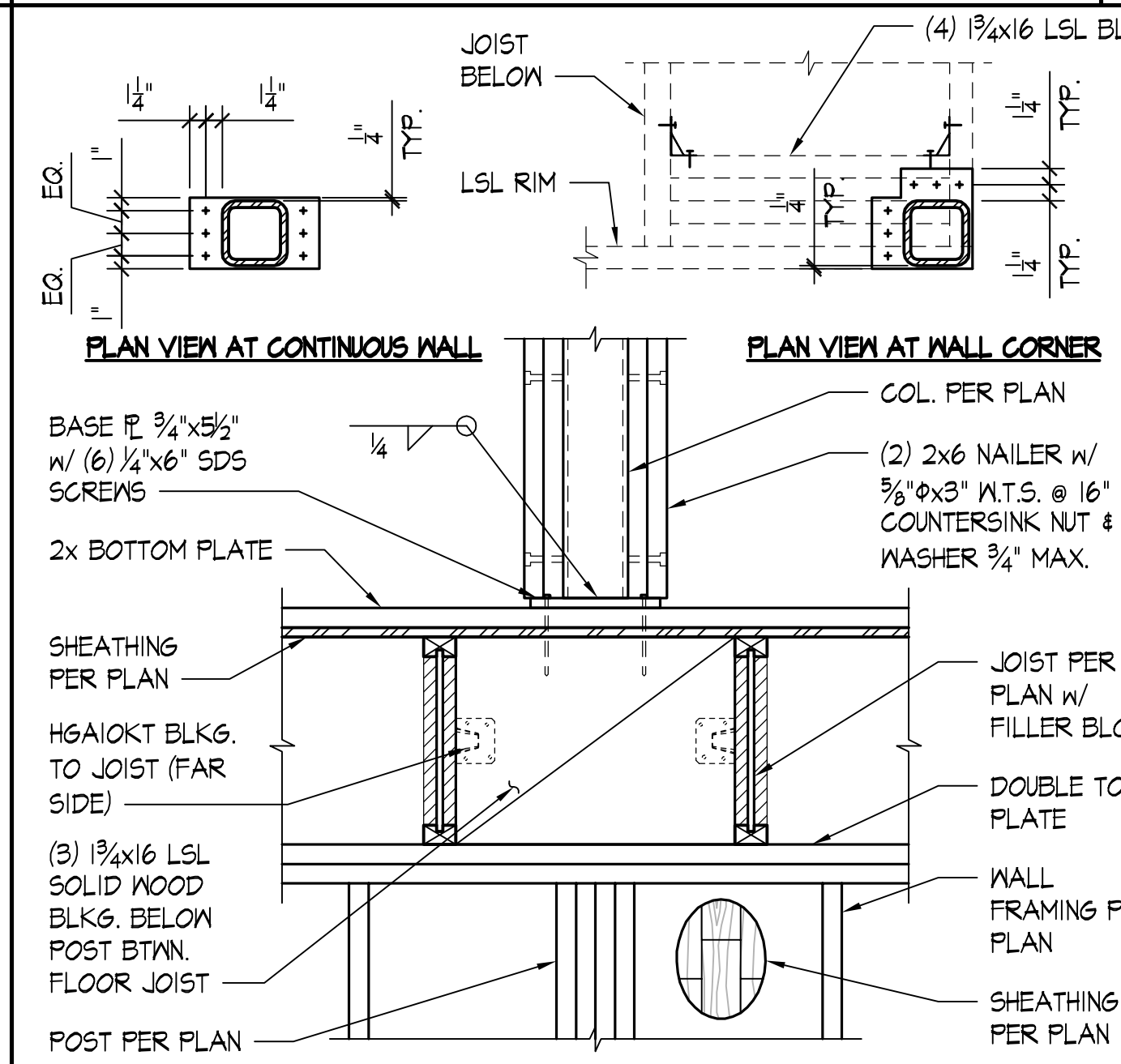
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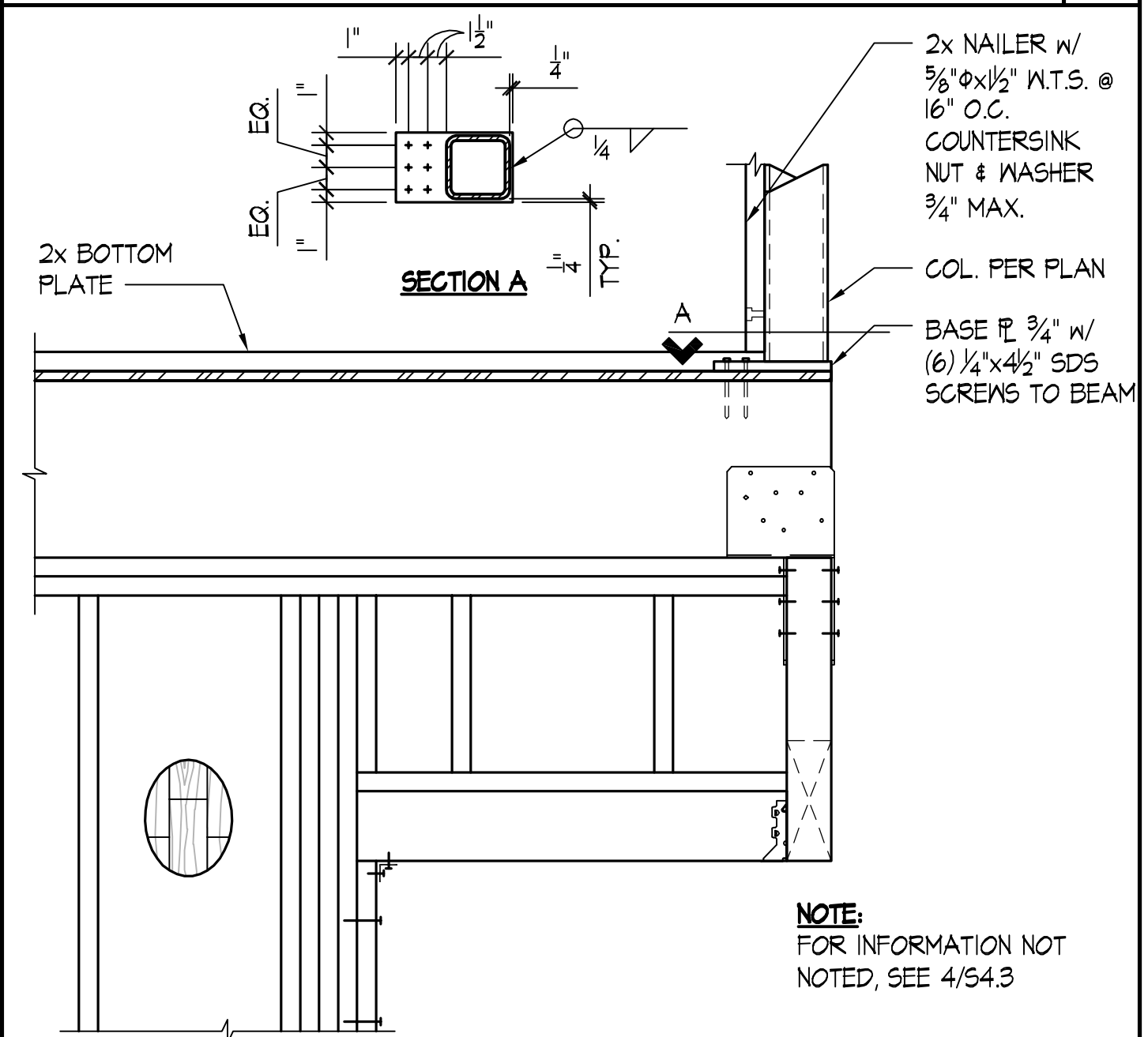
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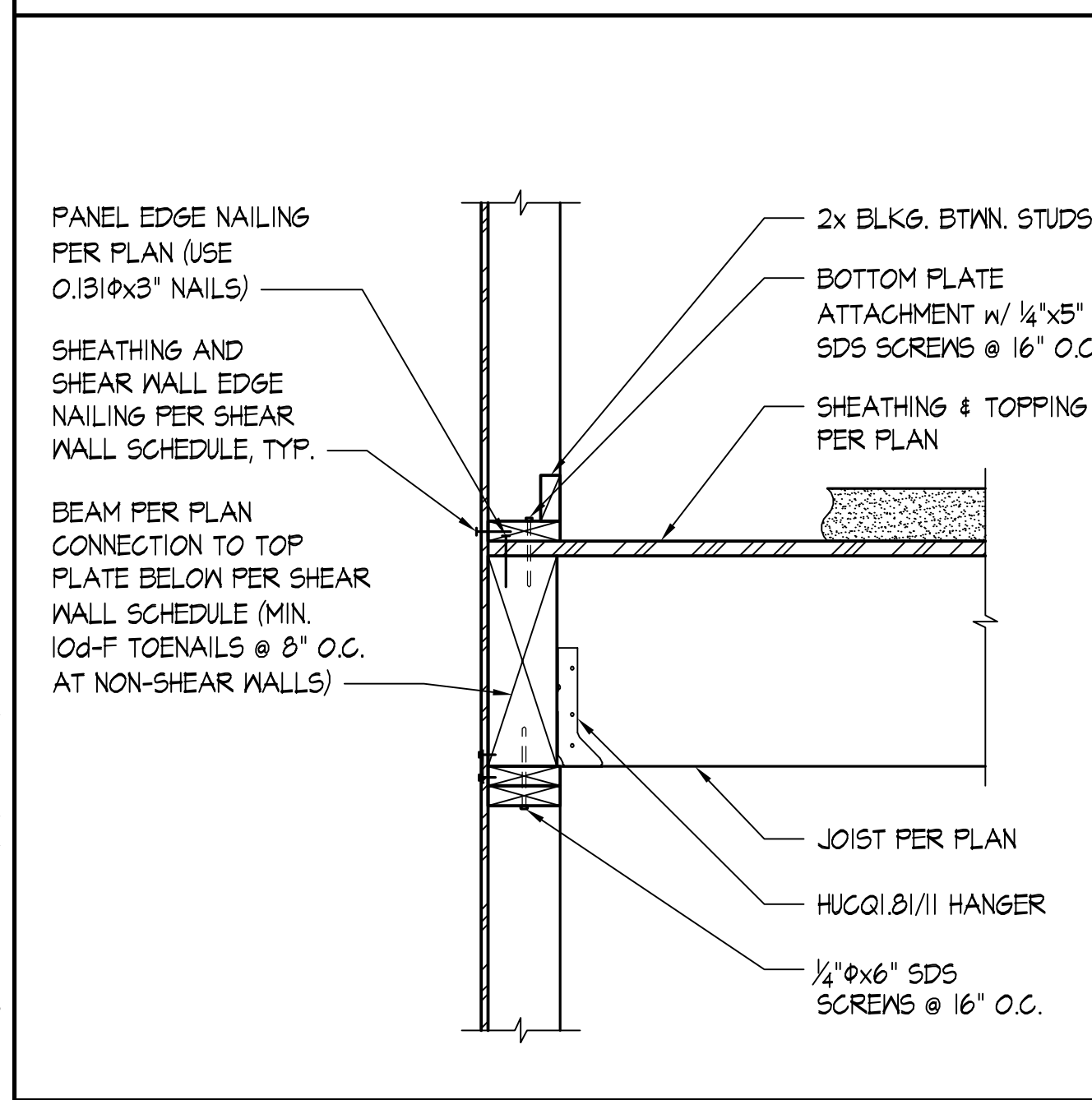
INTERIOR BEARING WALL - GARAGE SCALE: NONE



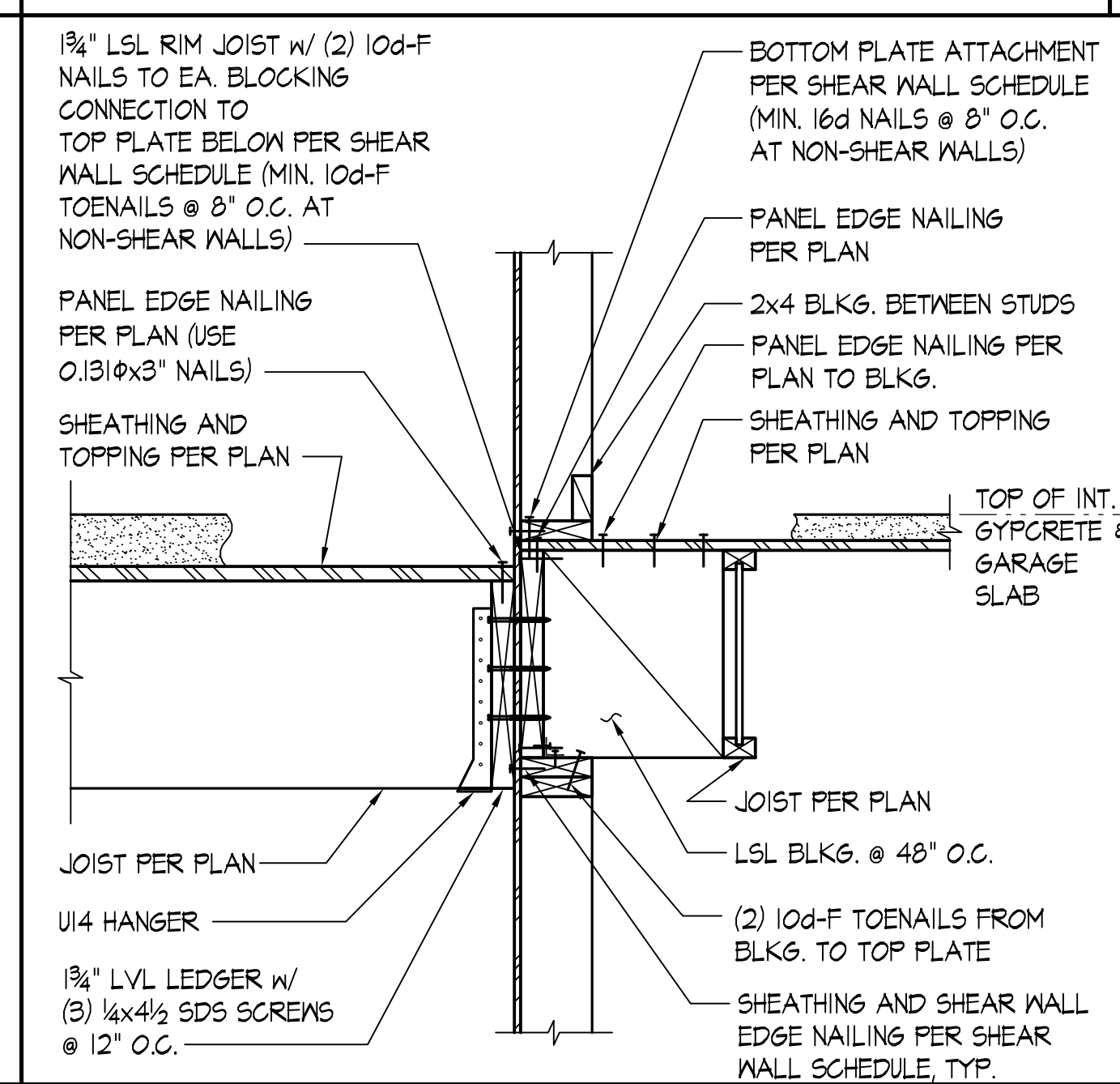
STEEL COLUMN BASE CONNECTION SCALE: NONE



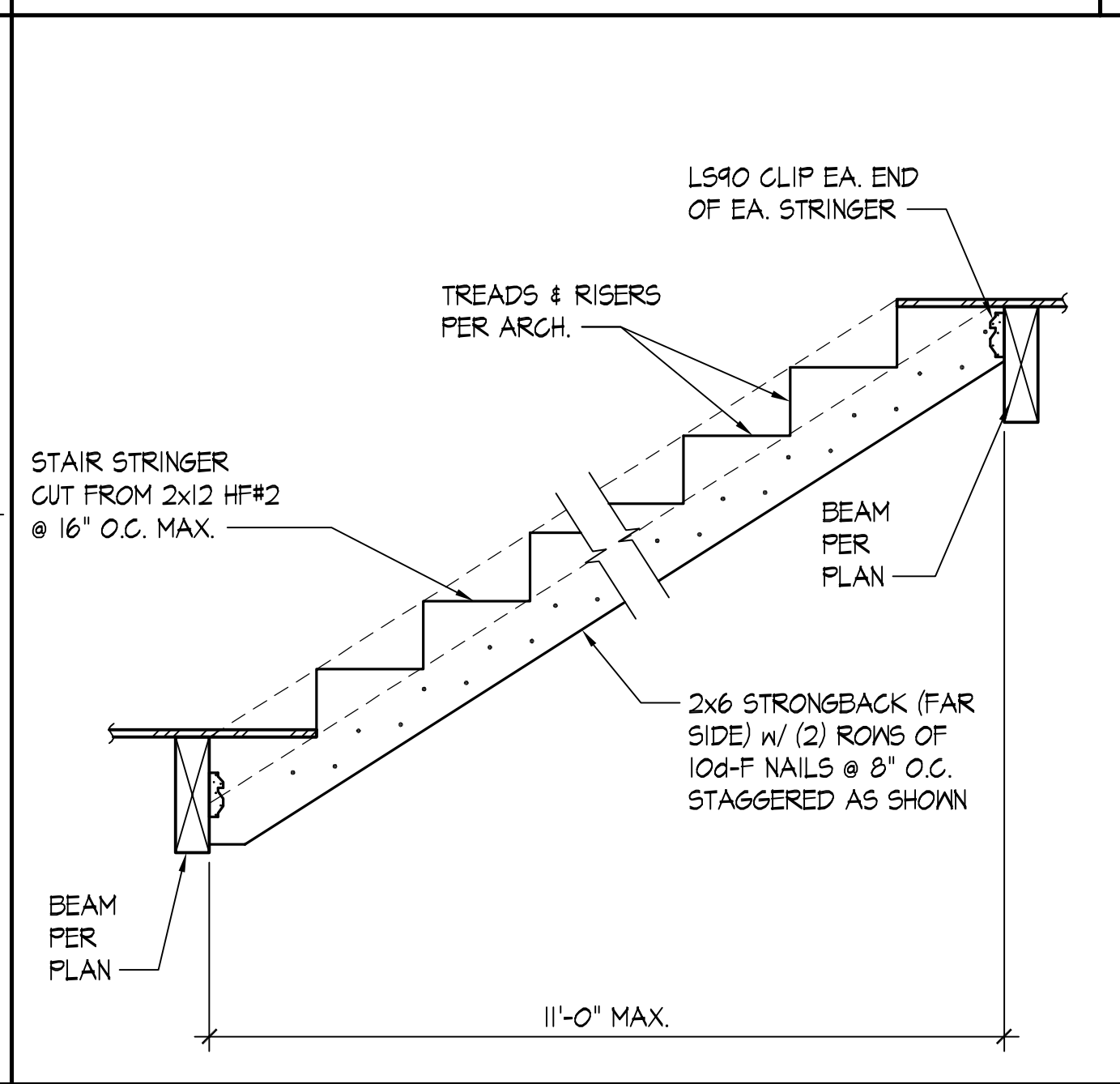
STEEL COLUMN BASE CONNECTION - TERRACE SCALE: NONE



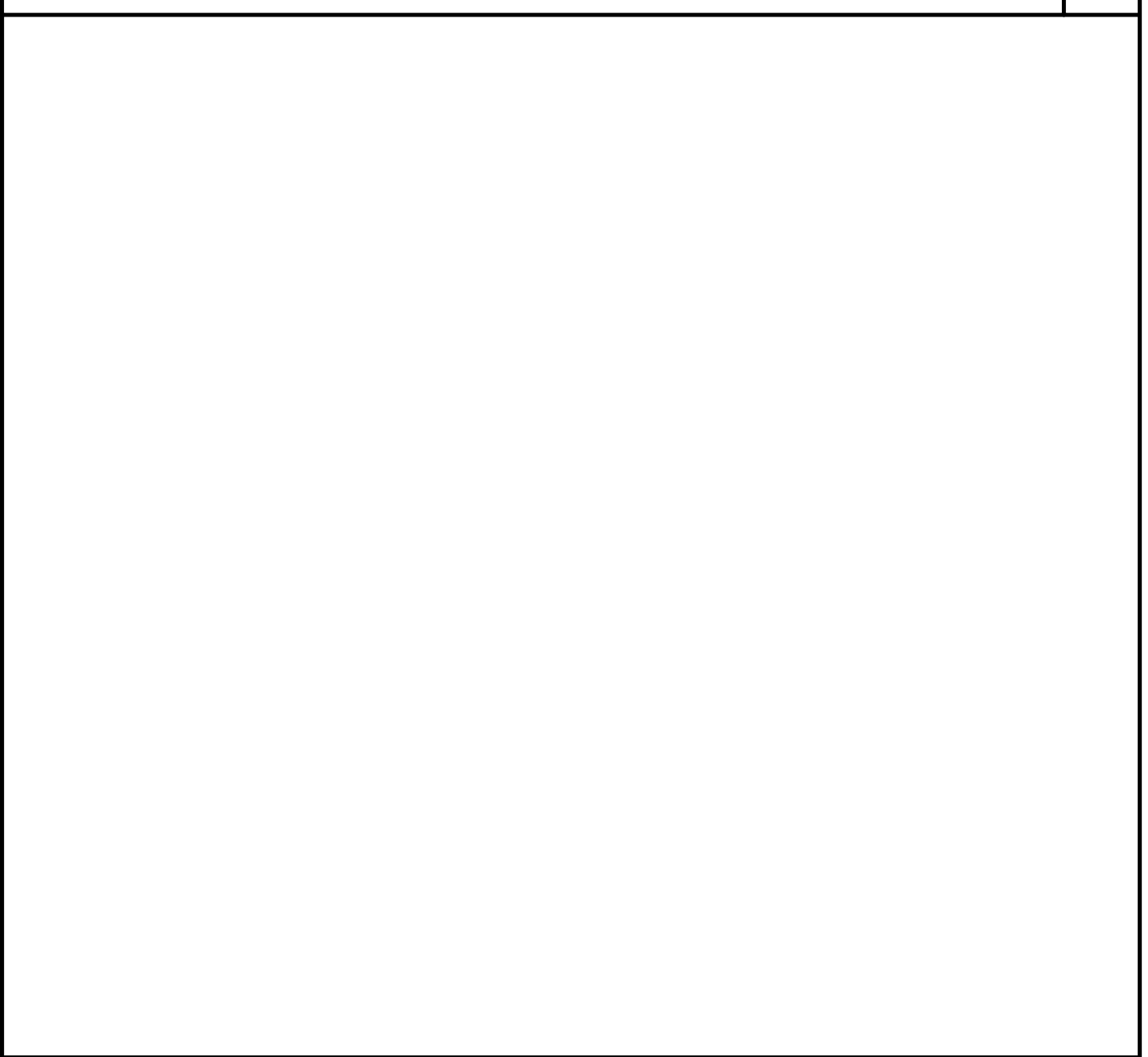
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DETAIL SCALE: NONE



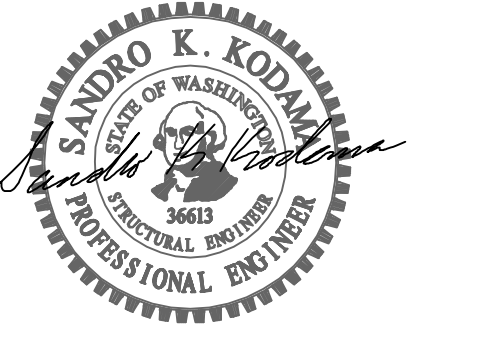
TYPICAL STAIR STRINGER SCALE: NONE



DETAIL SCALE: NONE

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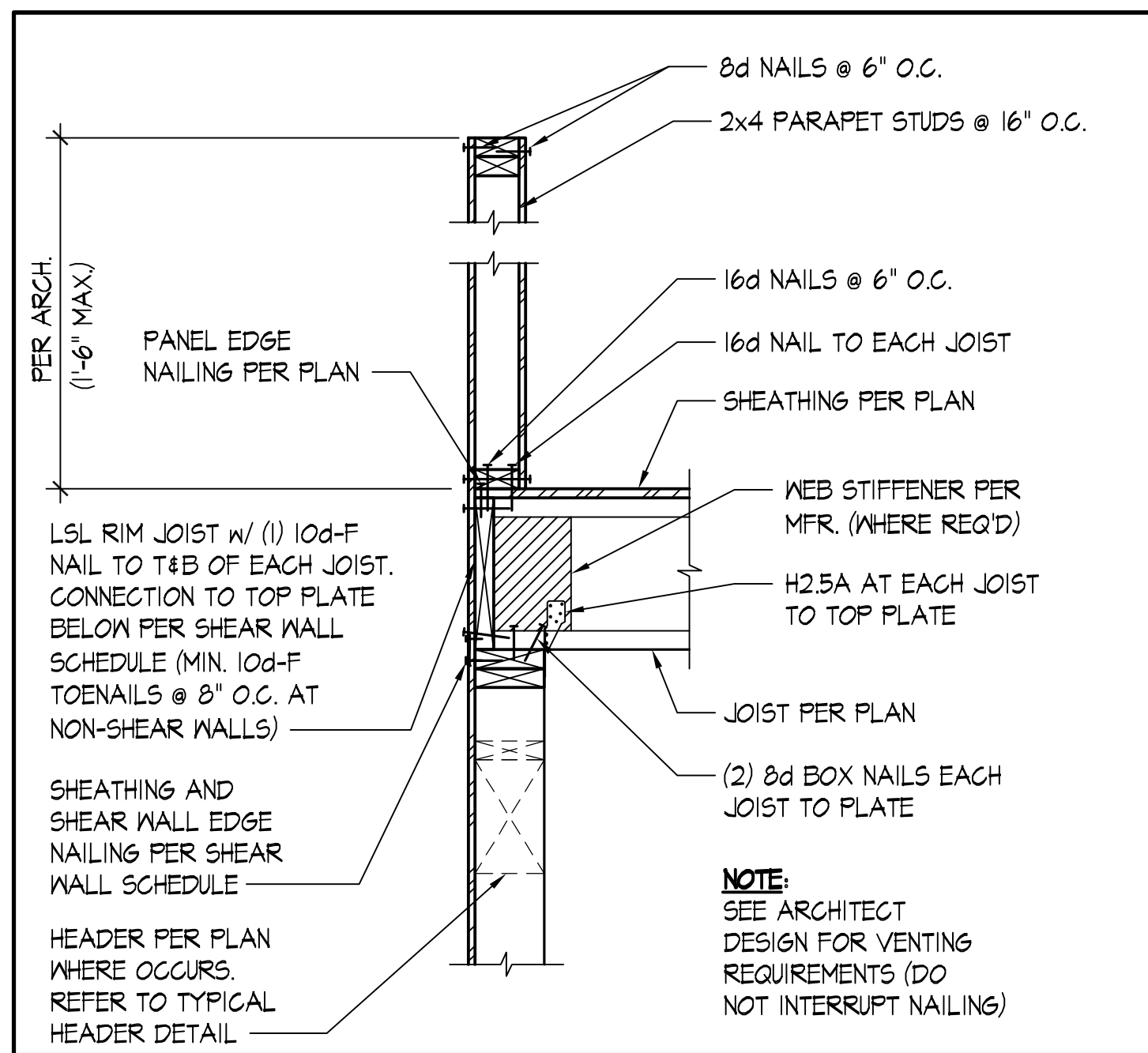


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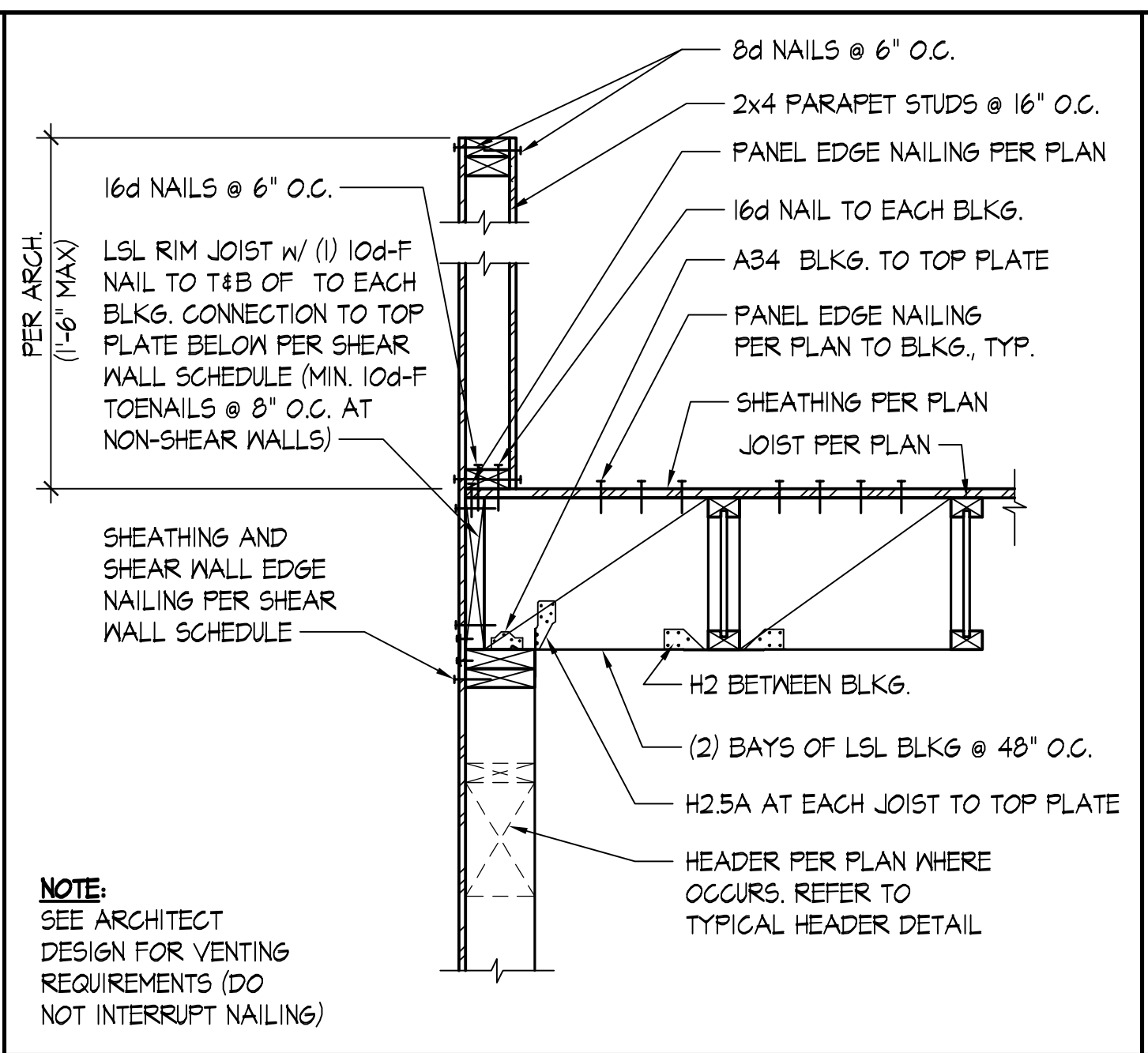
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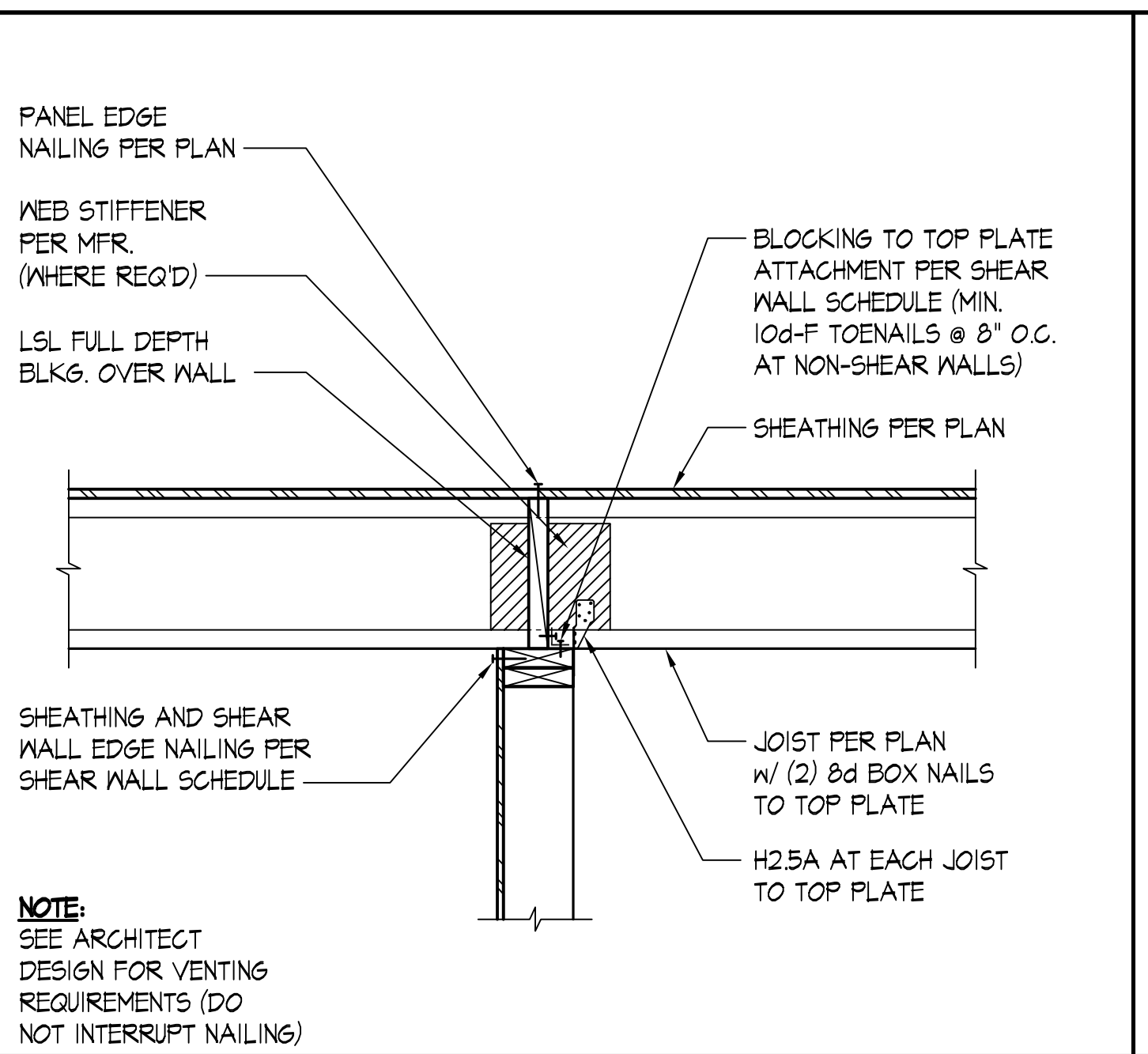
PROJECT NO. 18689.01
TYPICAL DETAILS



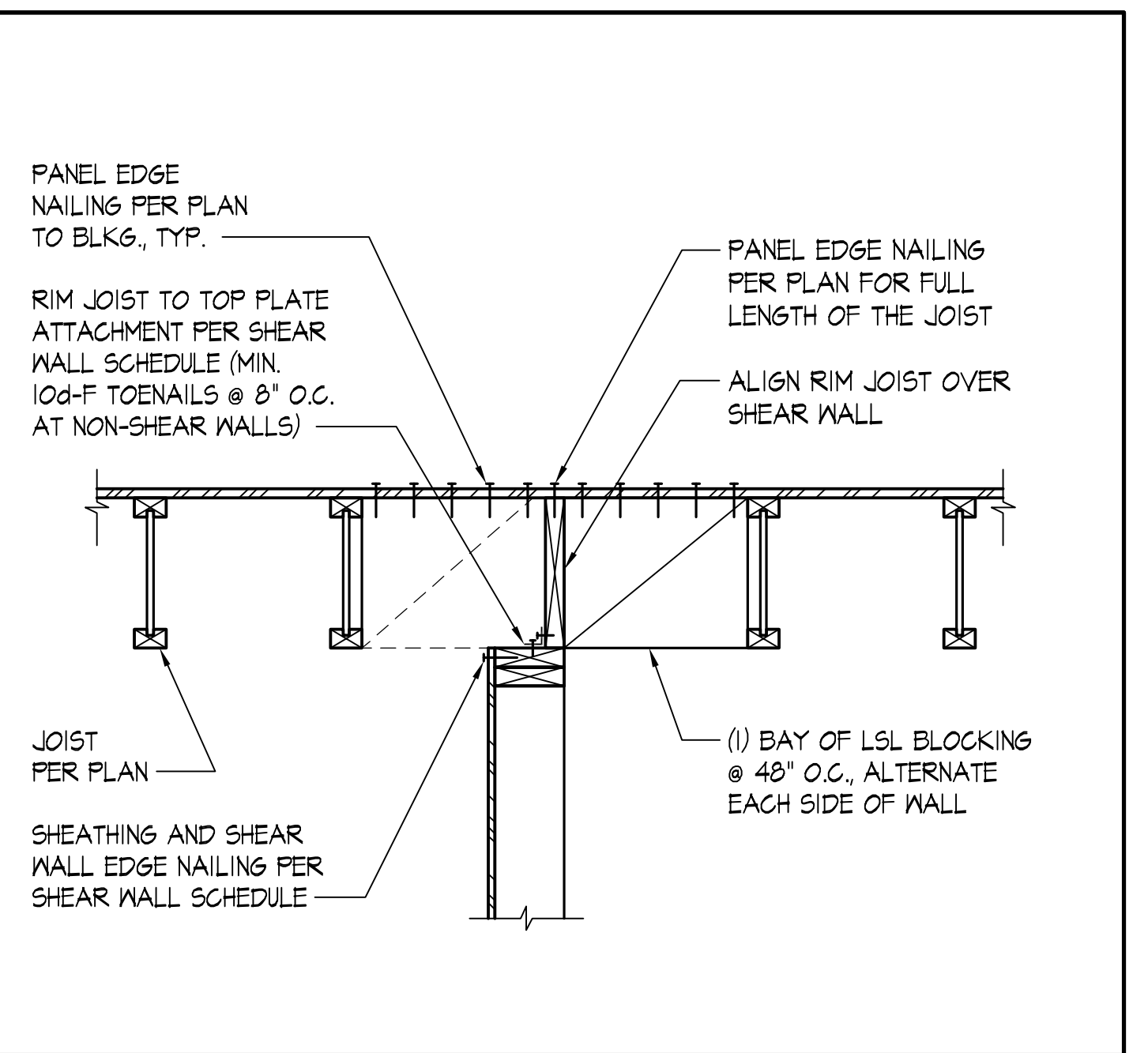
TYPICAL PARAPET - I-JOIST PERPENDICULAR SCALE: NONE 1



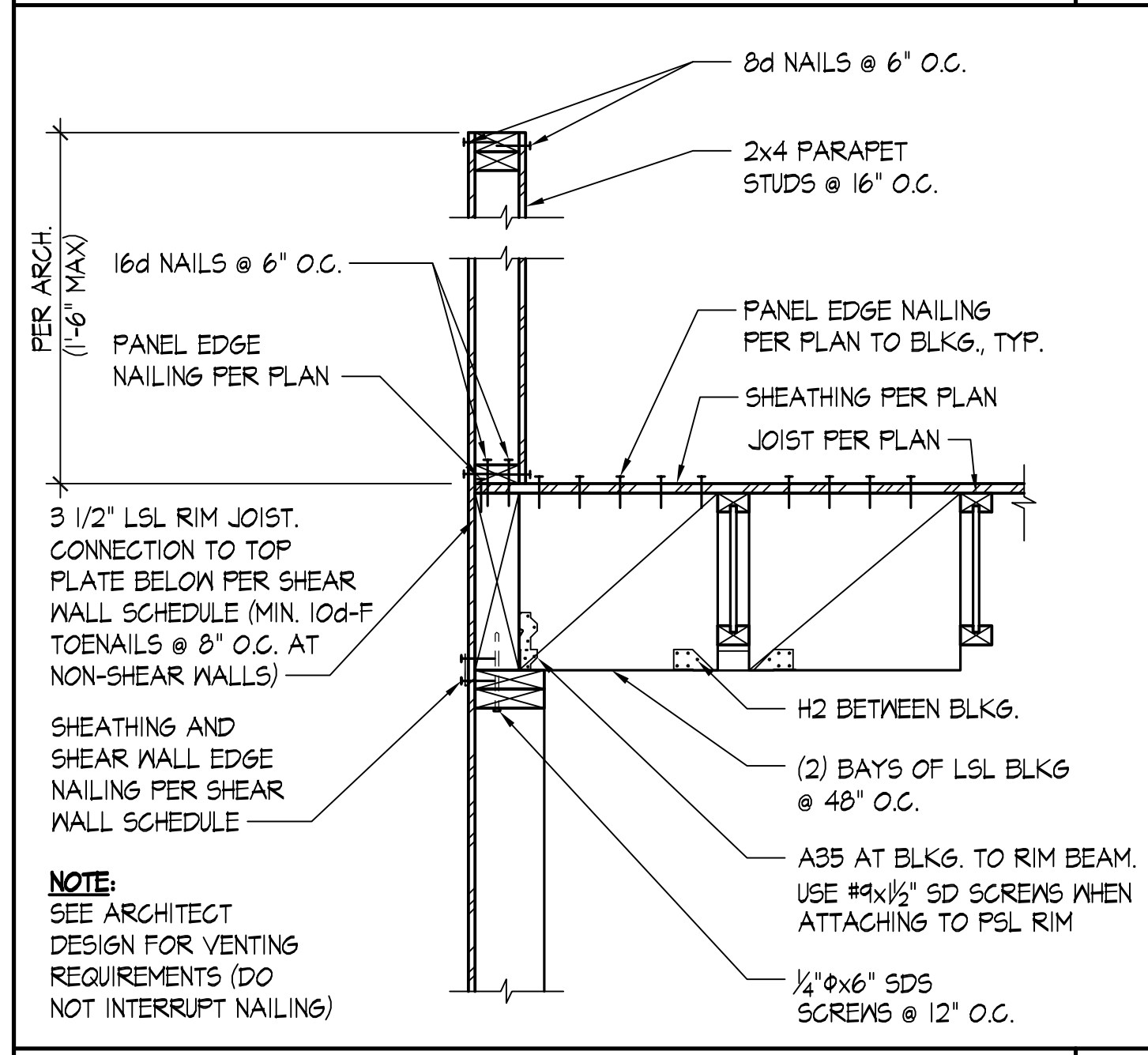
TYPICAL PARAPET - I-JOIST PARALLEL SCALE: NONE 2



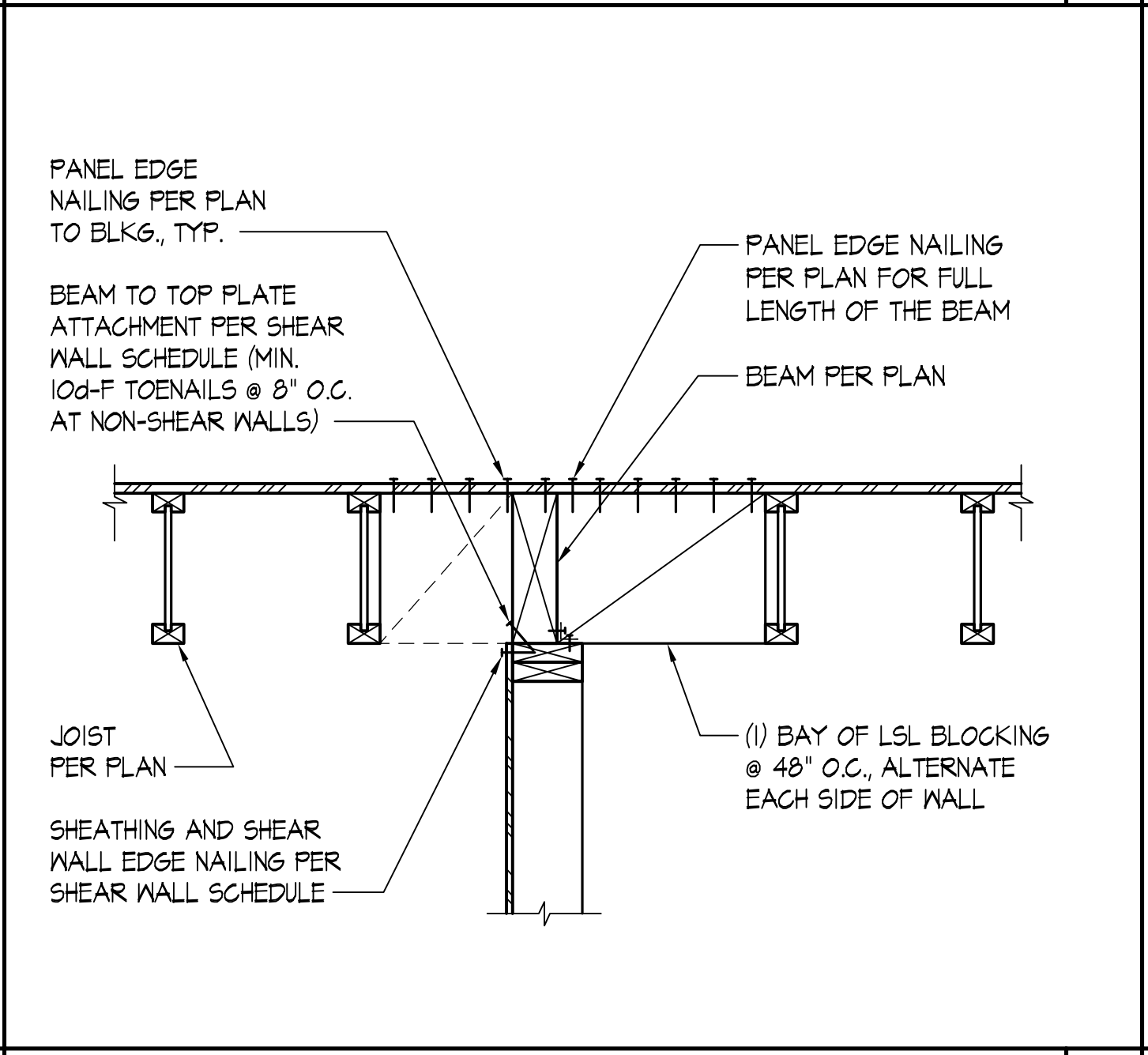
EXTERIOR STRUCTURAL WALL AT ROOF - I-JOIST PERPENDICULAR SCALE: NONE 3



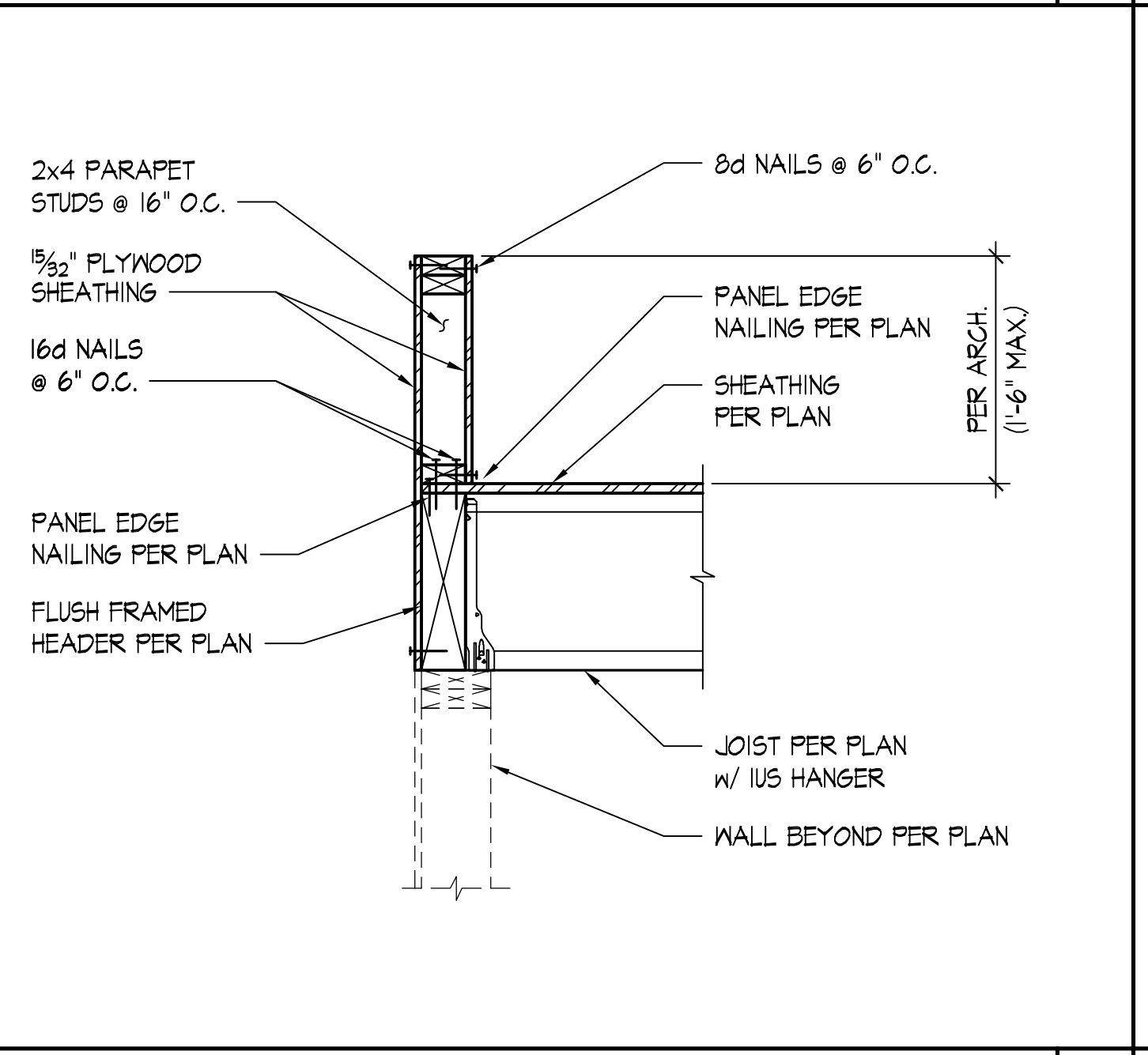
TYPICAL INTERIOR STRUCTURAL WALL AT ROOF - I-JOIST PARALLEL SCALE: NONE 4



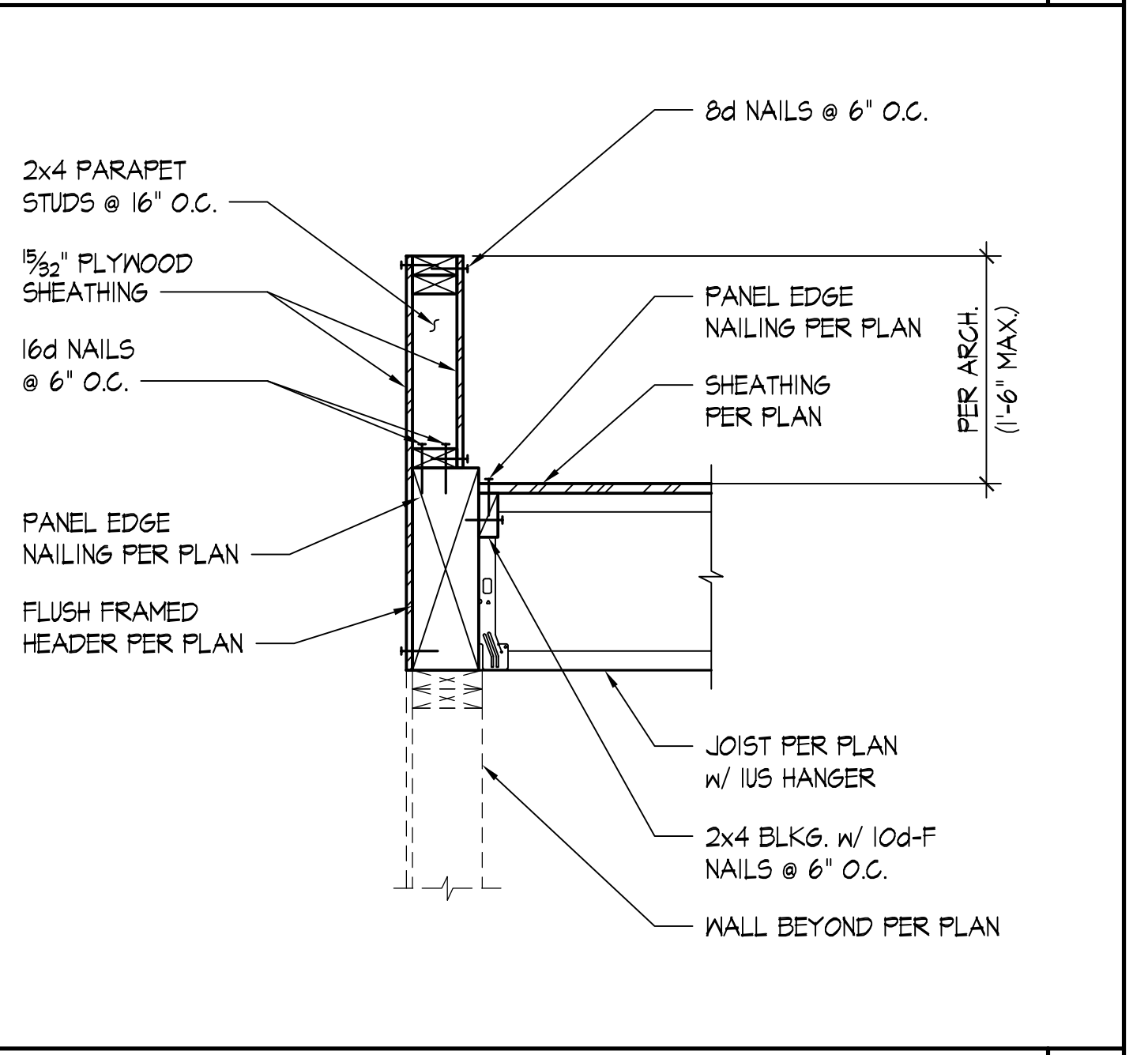
PARAPET - I-JOIST PARALLEL SCALE: NONE 5



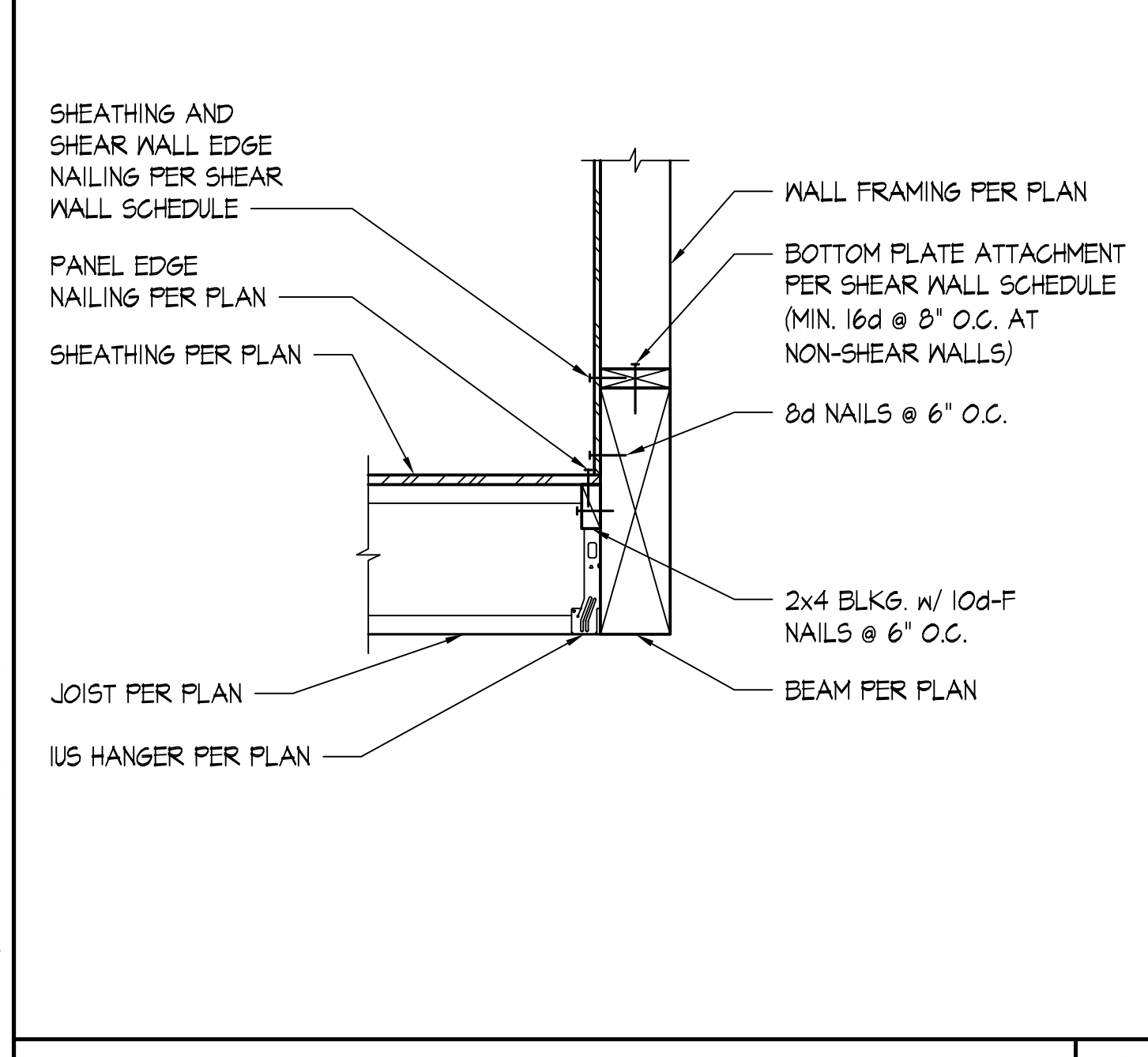
DETAIL SCALE: NONE 6



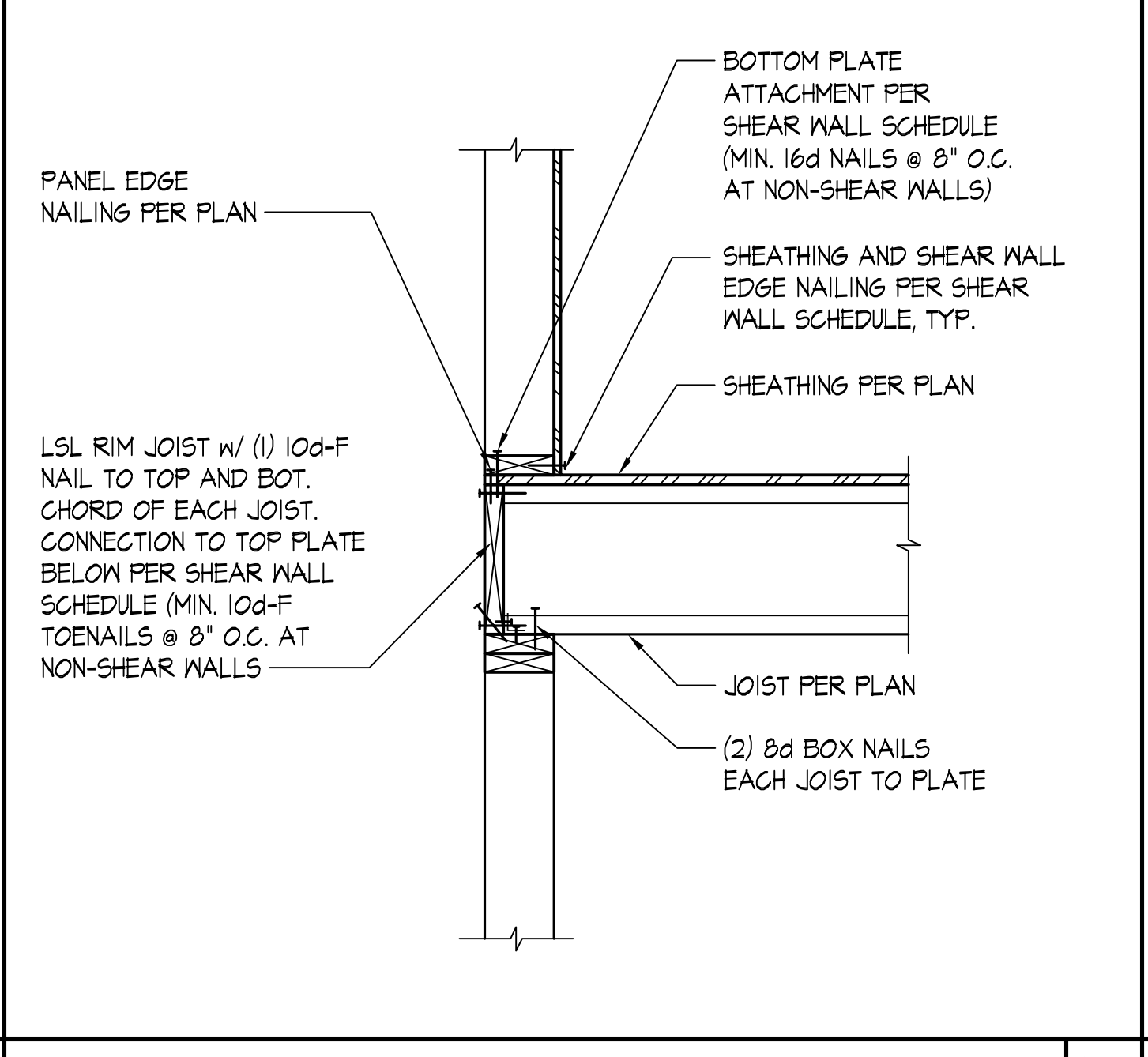
DETAIL SCALE: NONE 7



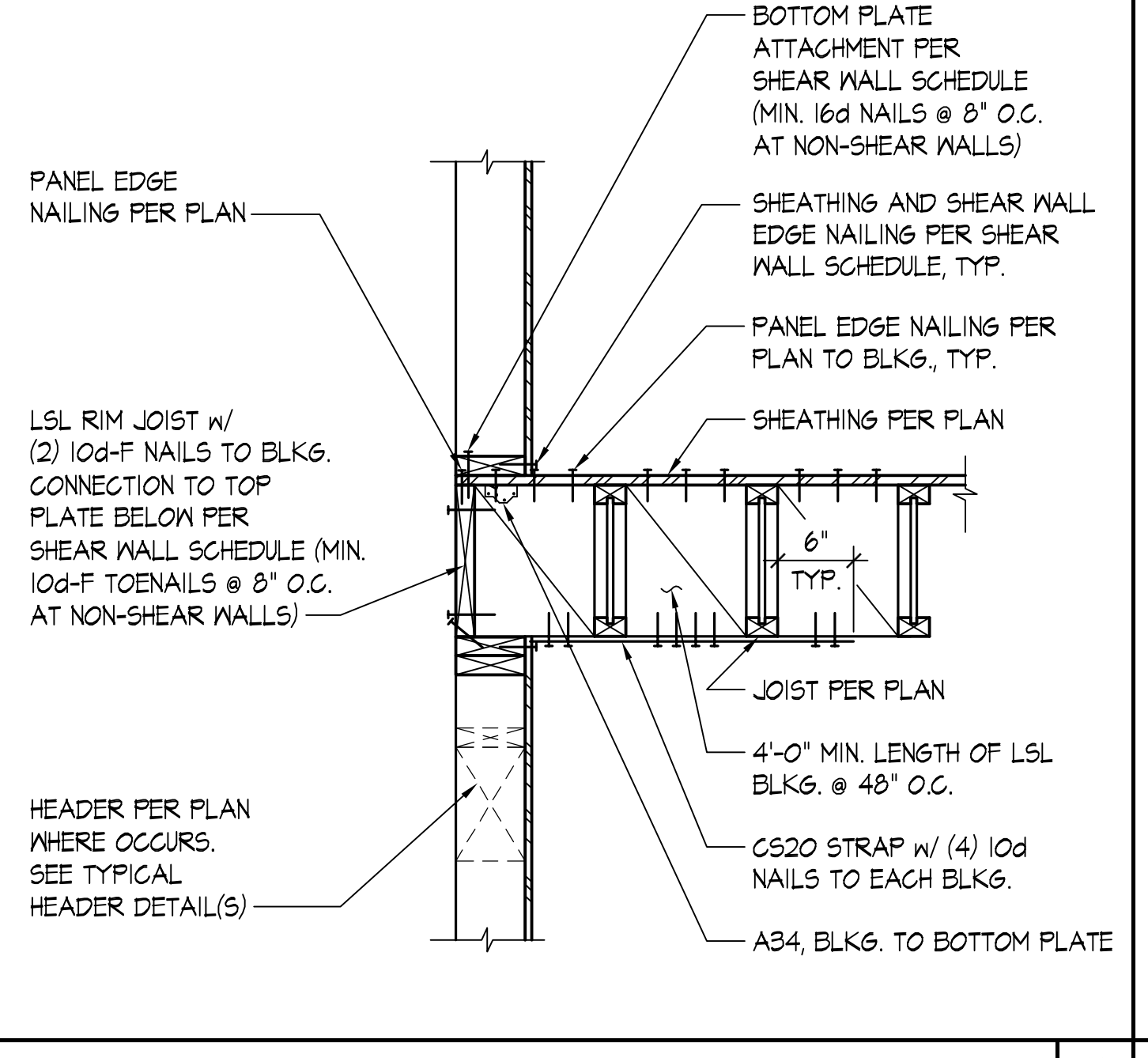
DETAIL SCALE: NONE 8



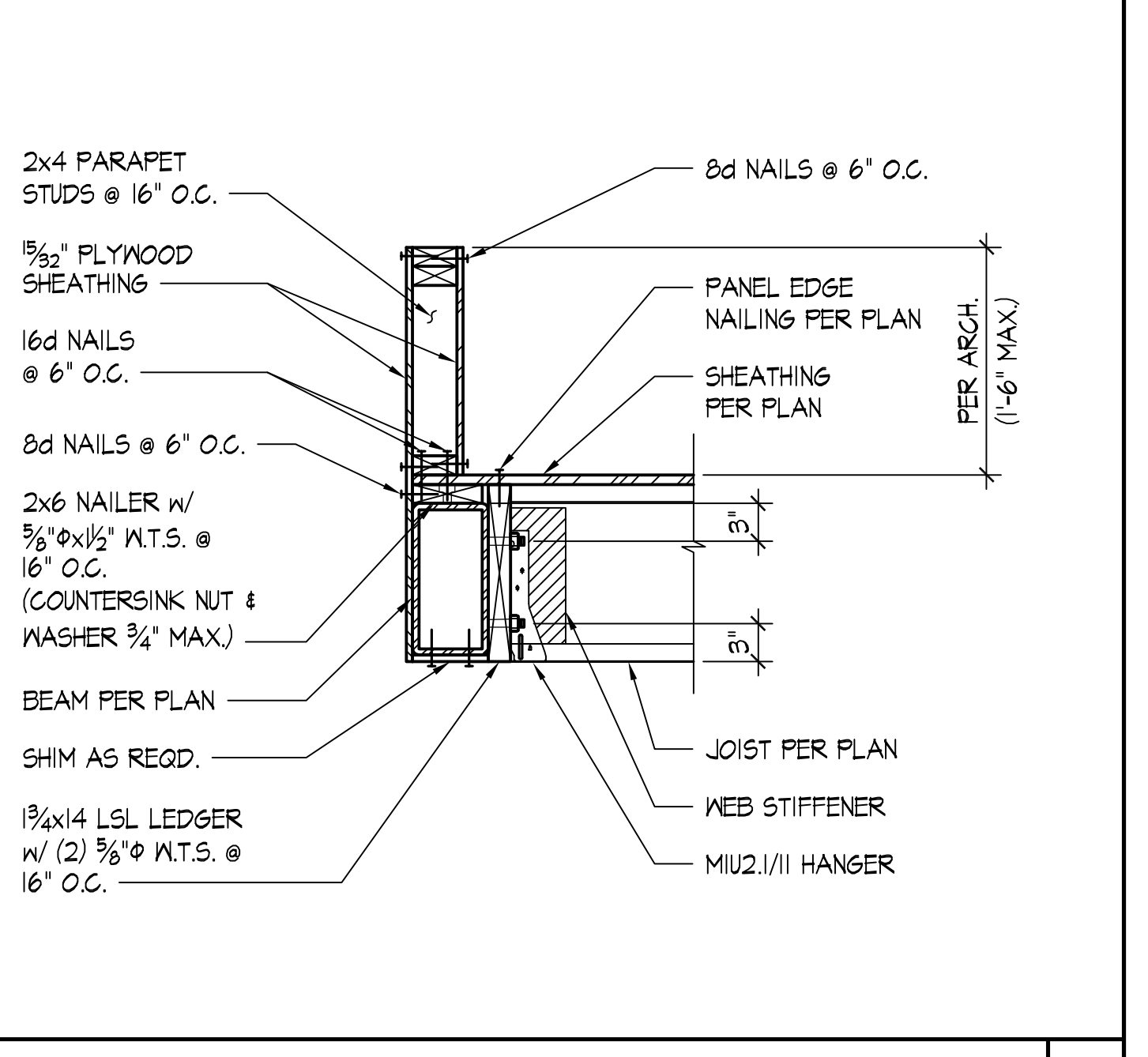
DETAIL SCALE: NONE 9



DETAIL SCALE: NONE 10



DETAIL SCALE: NONE 11



DETAIL SCALE: NONE 12



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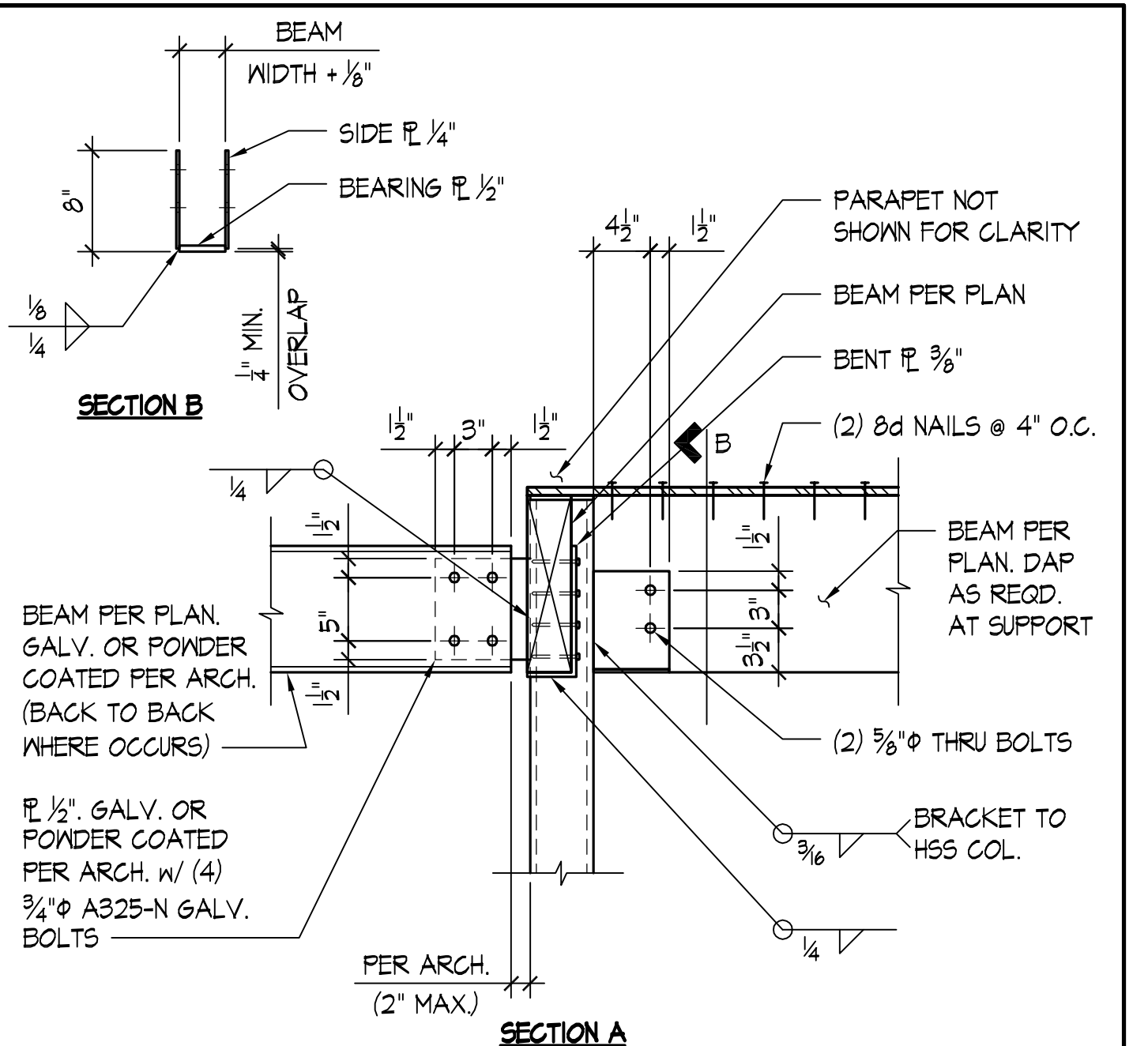
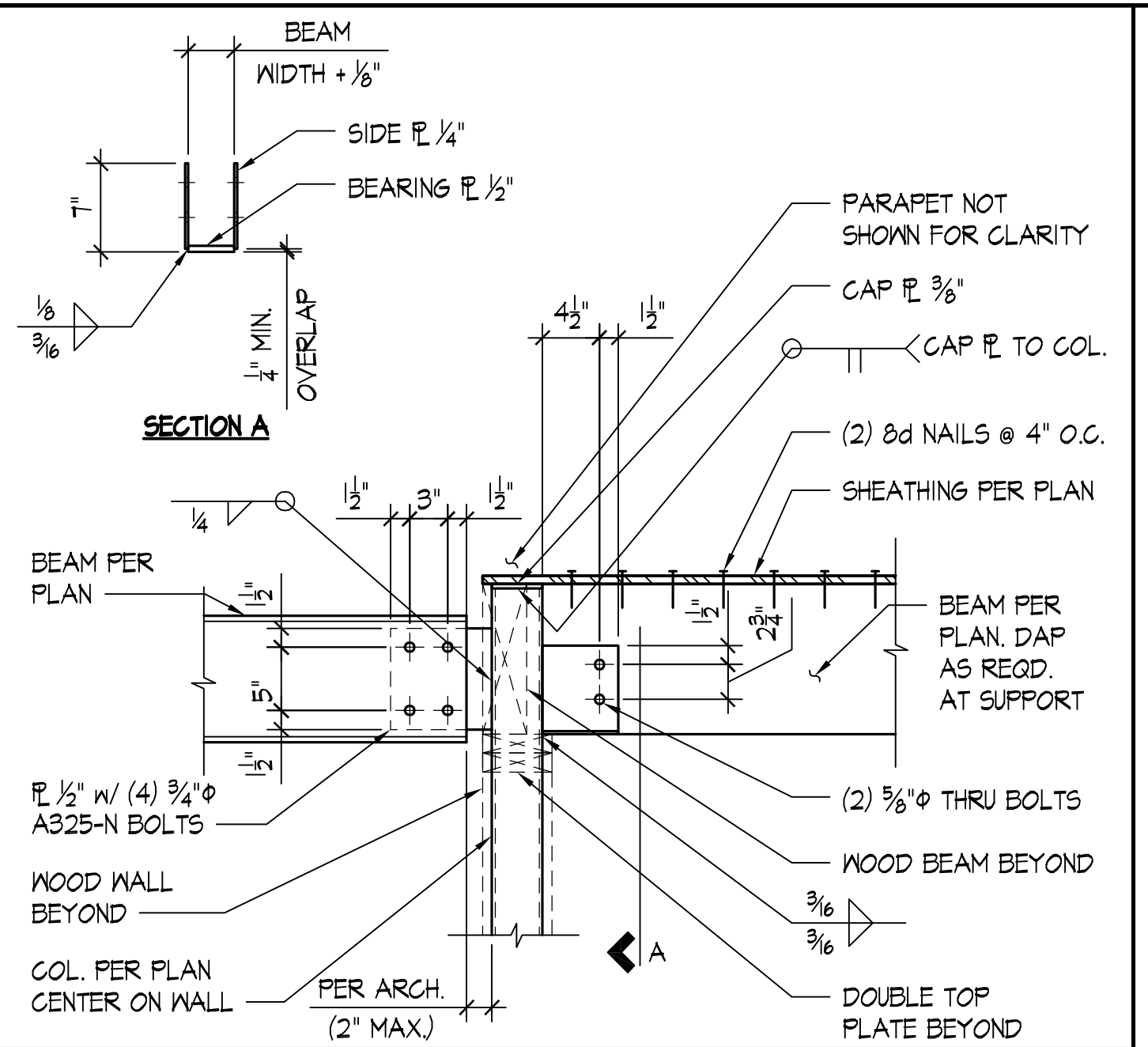
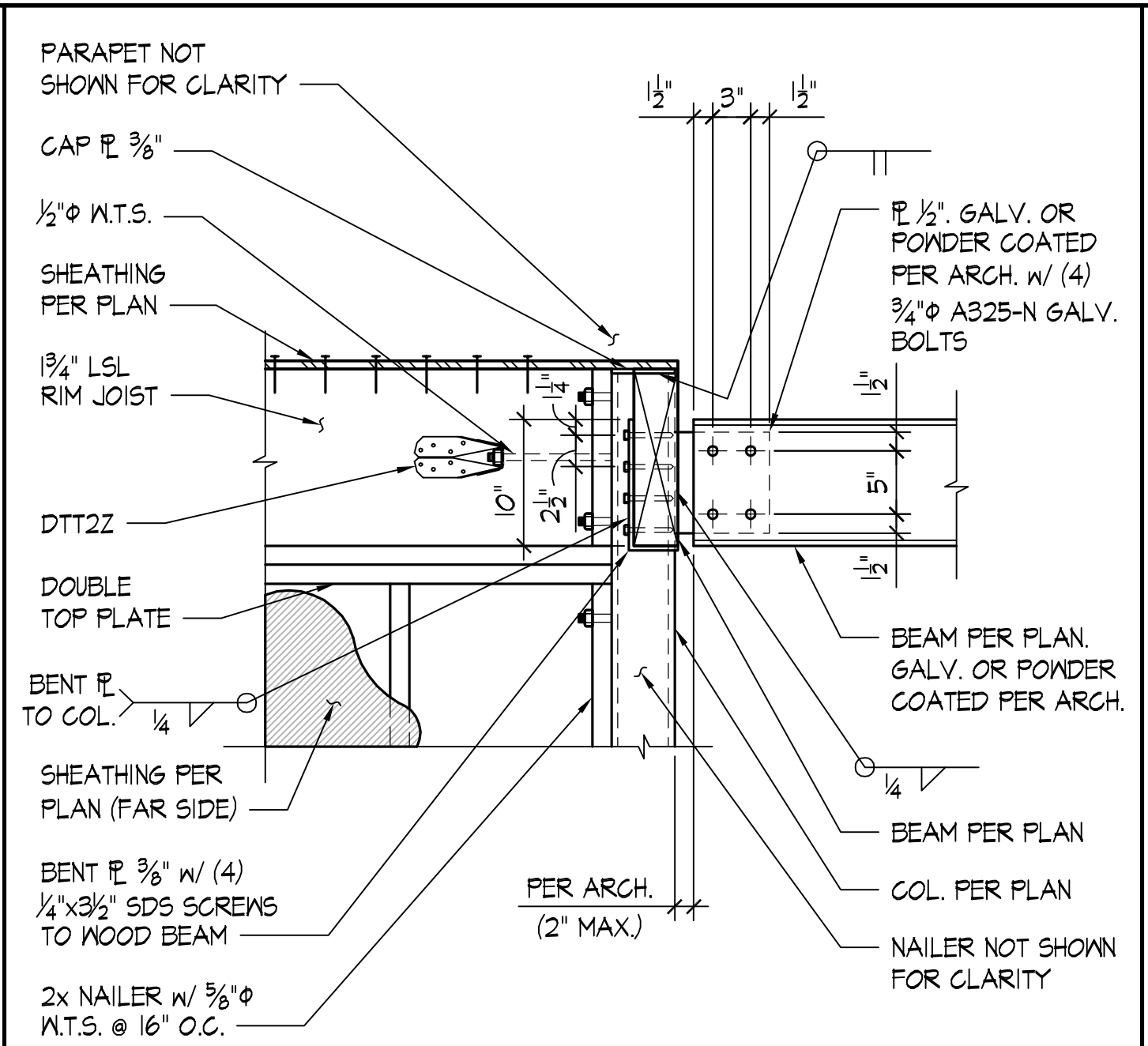
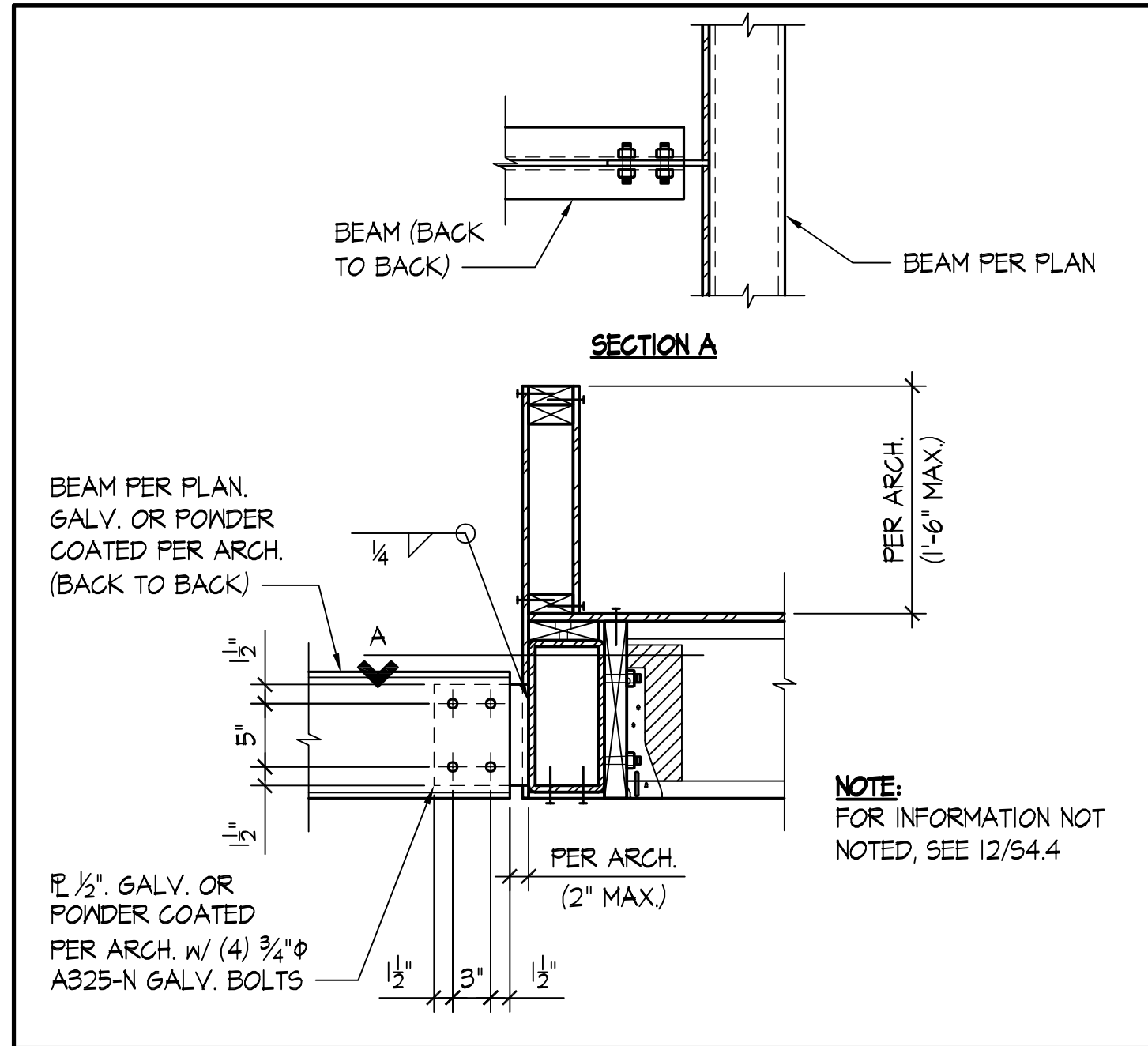
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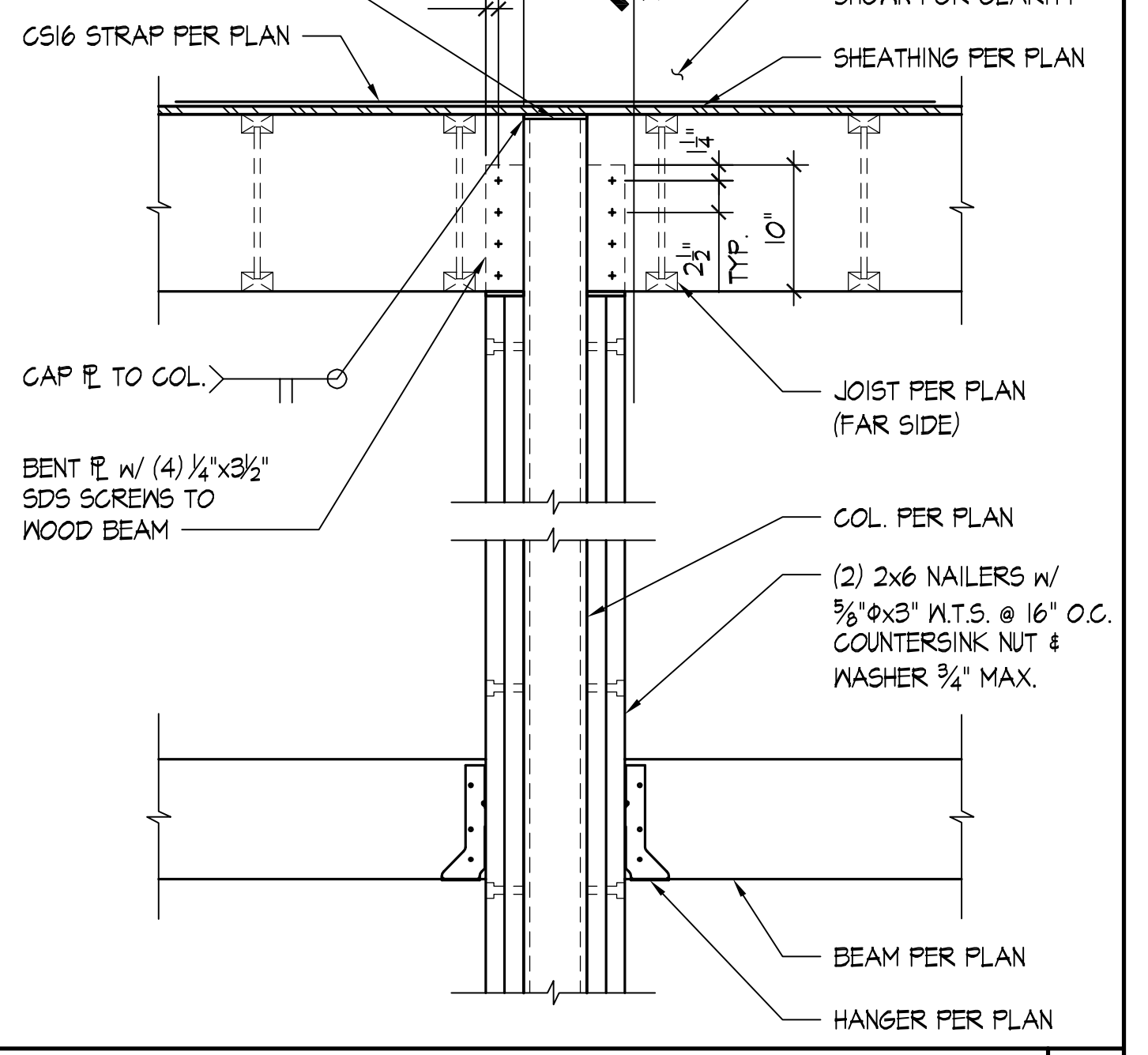
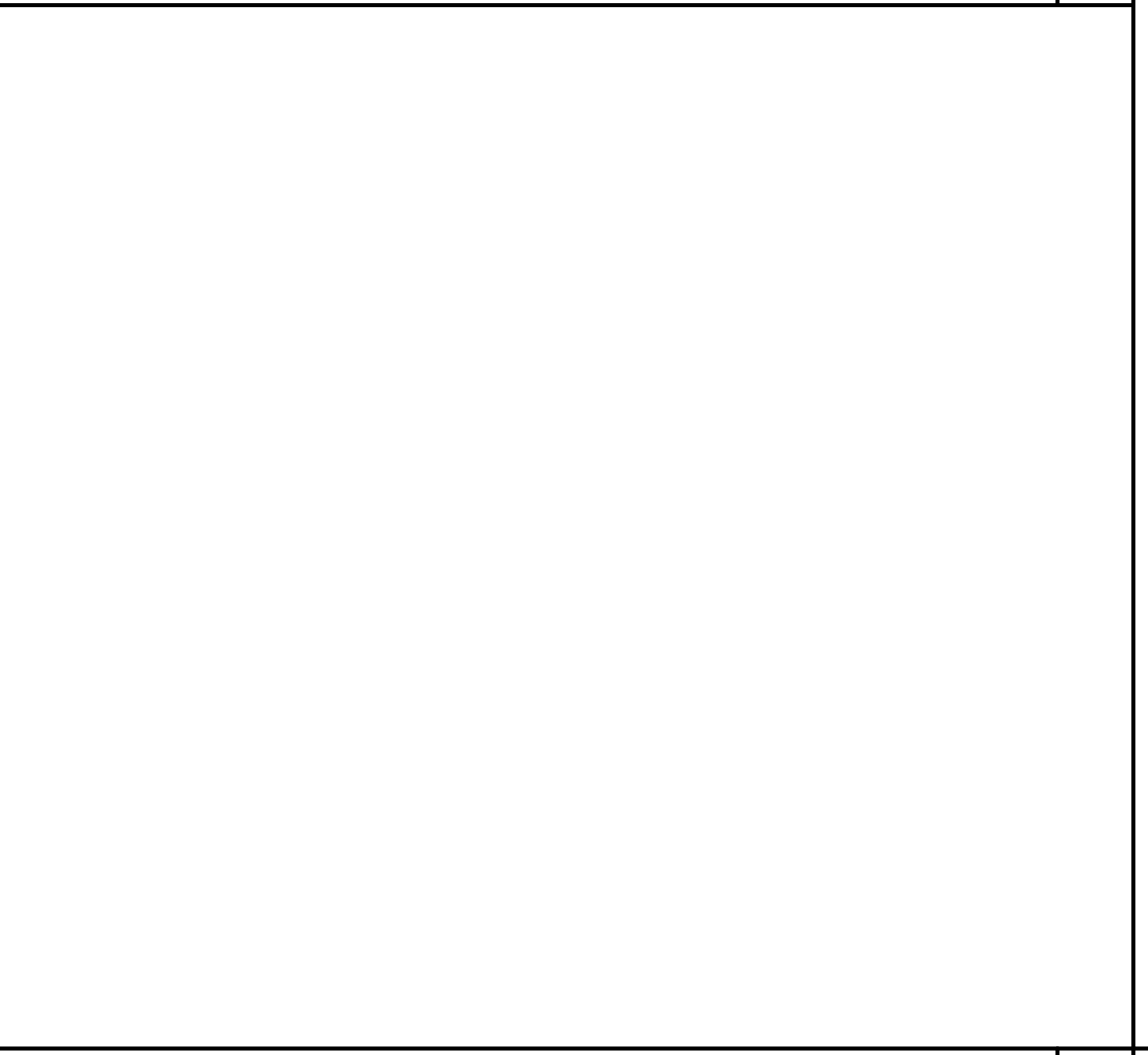
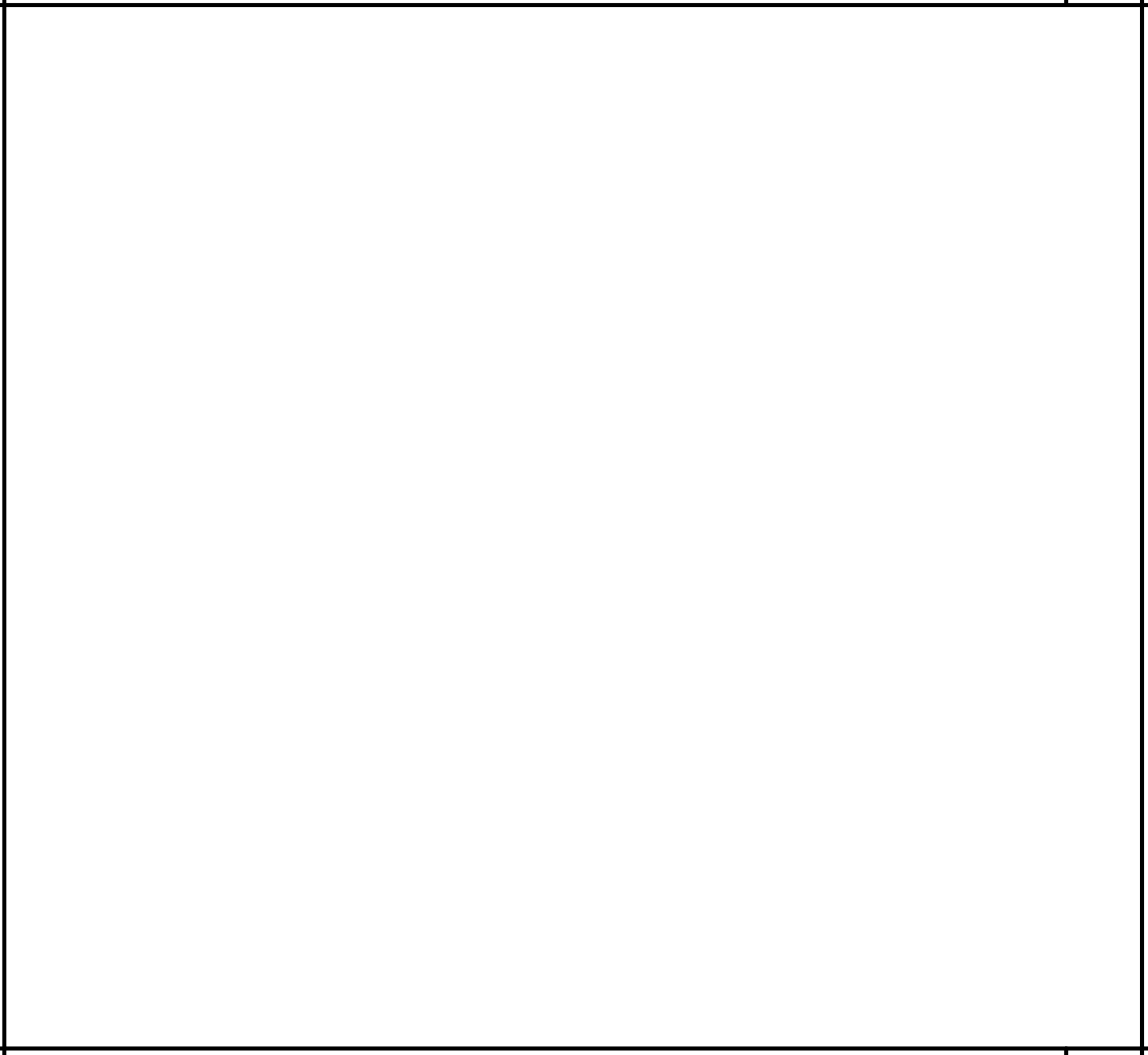
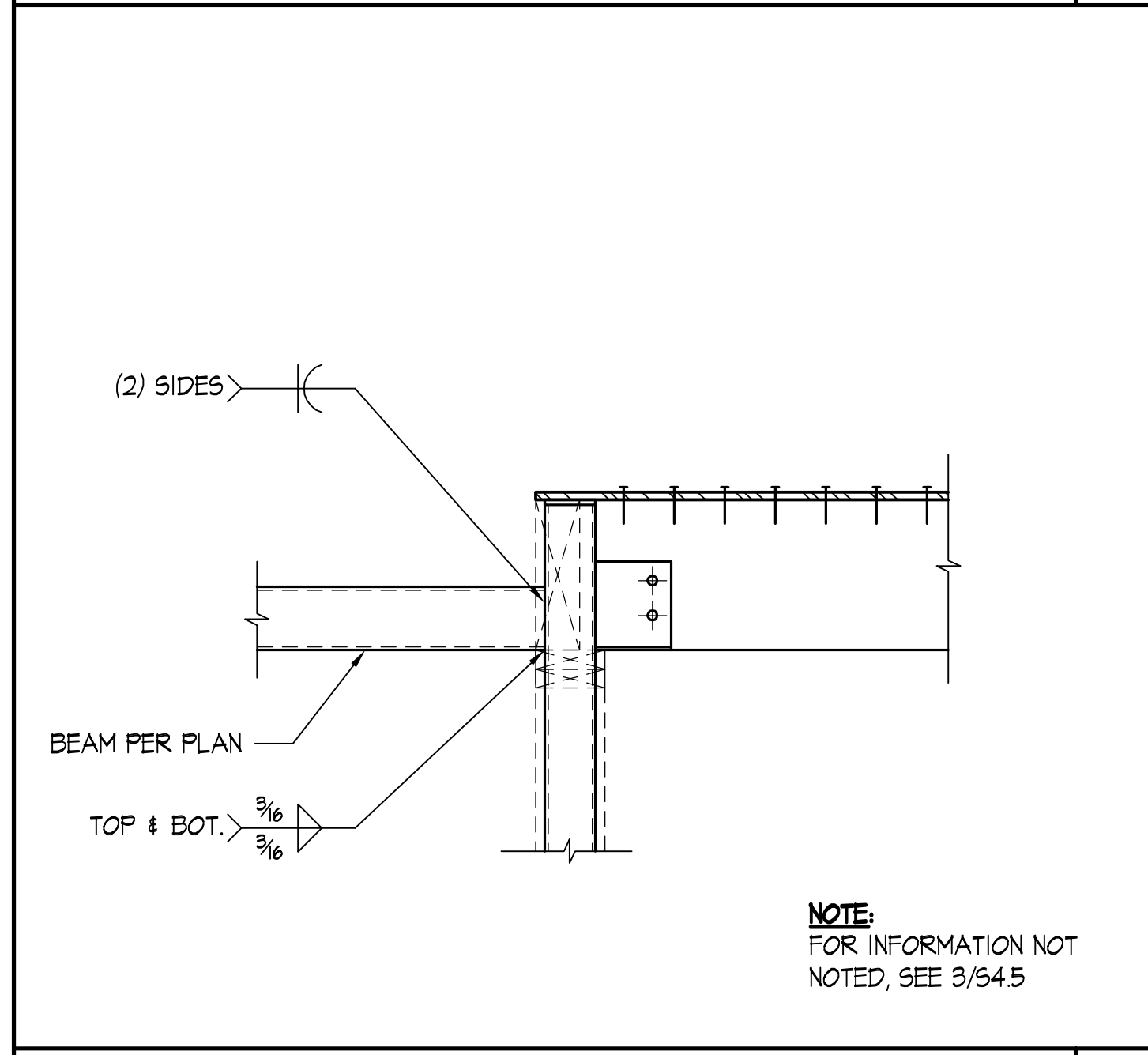


DETAIL SCALE: 1"=1'-0" 1

DETAIL SCALE: 1"=1'-0" 2

DETAIL SCALE: 1"=1'-0" 3

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

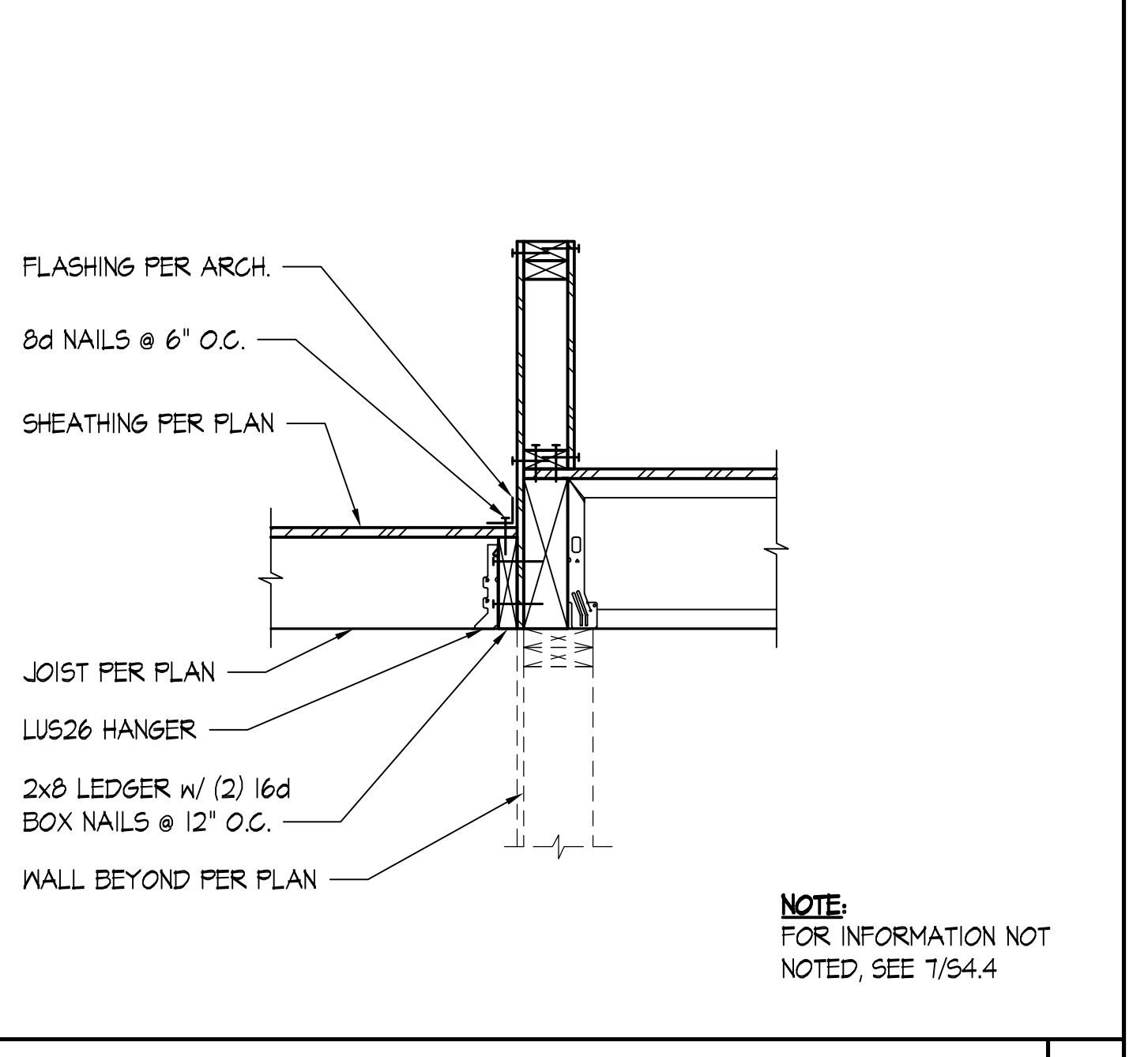
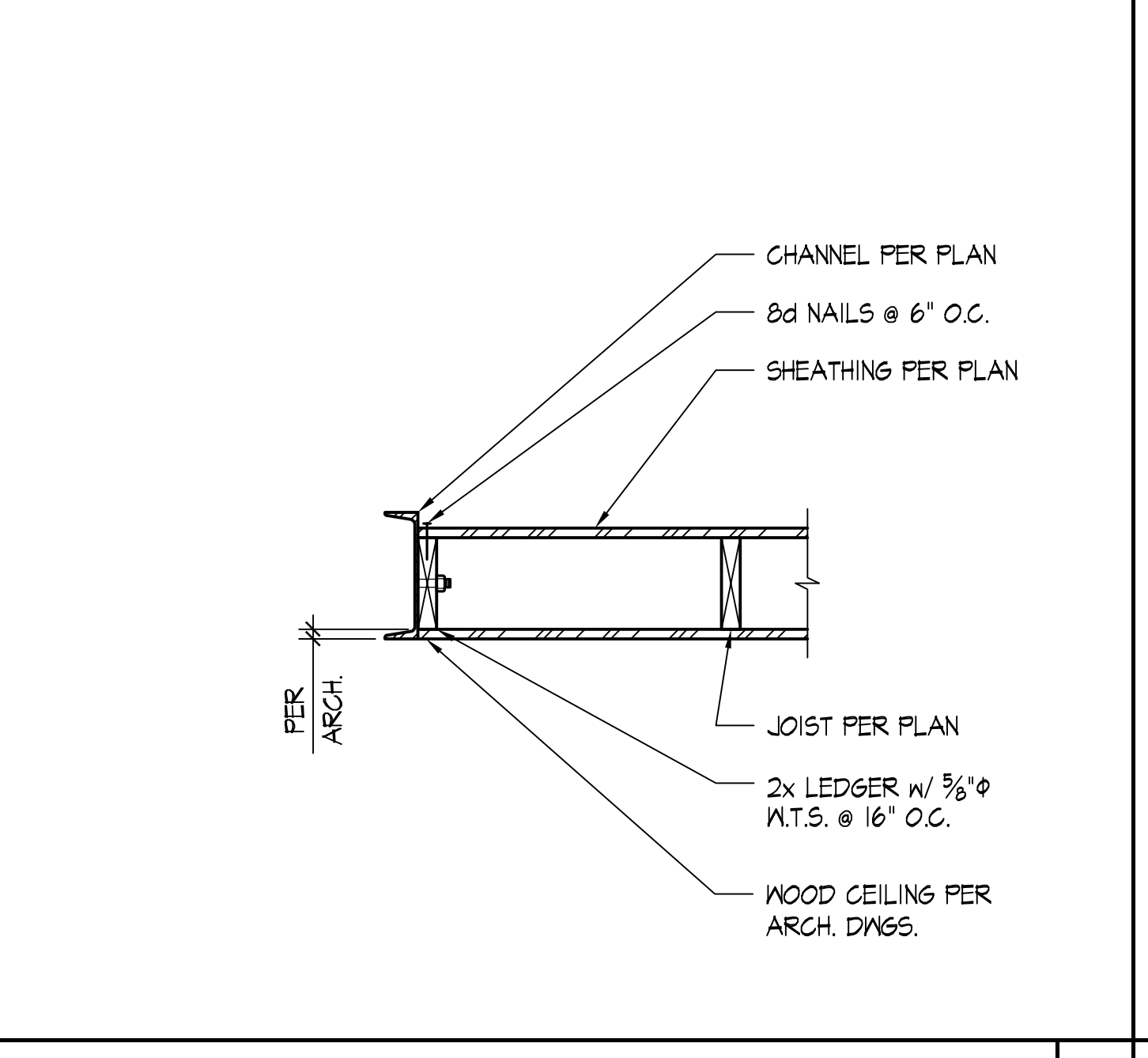
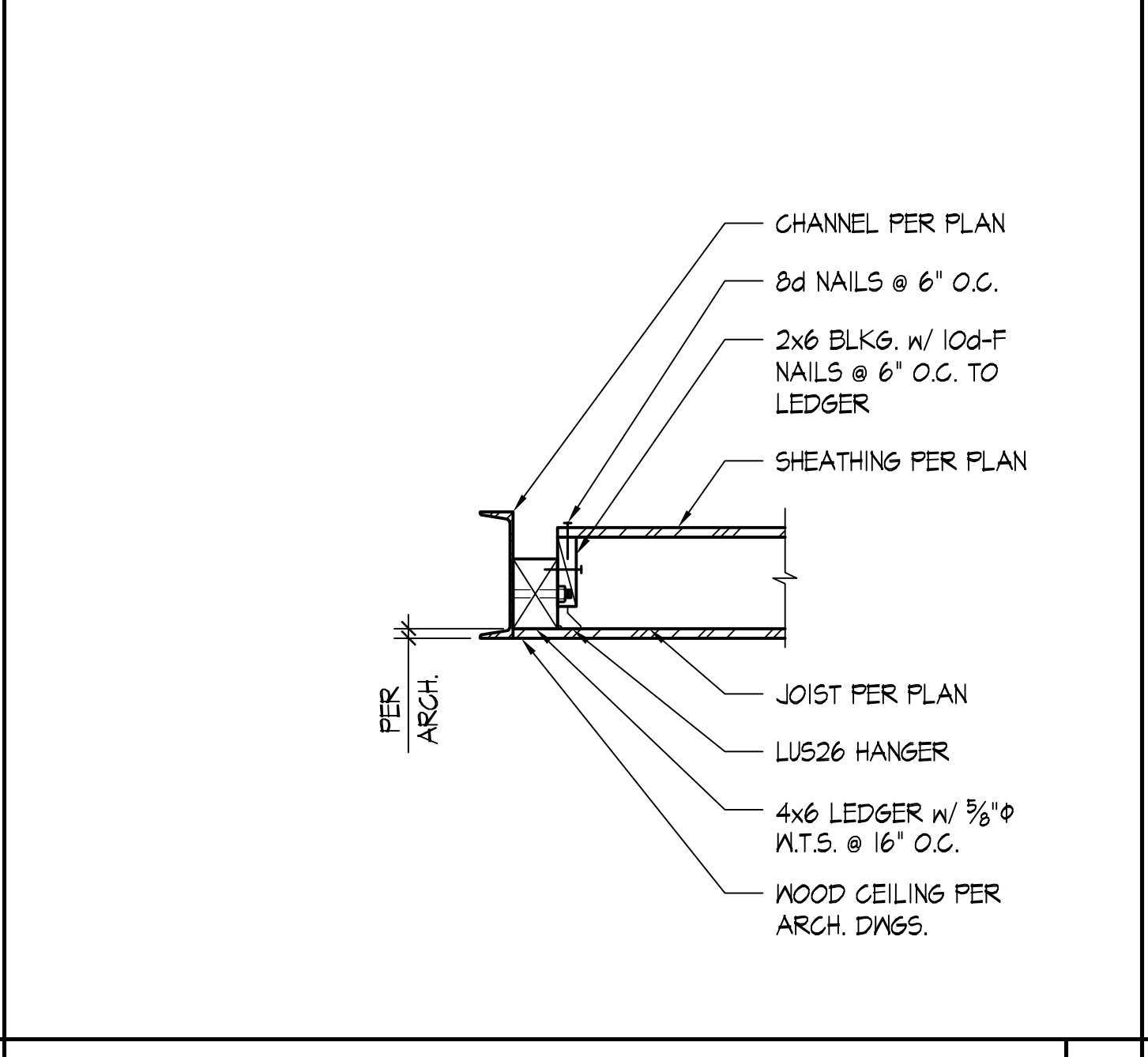
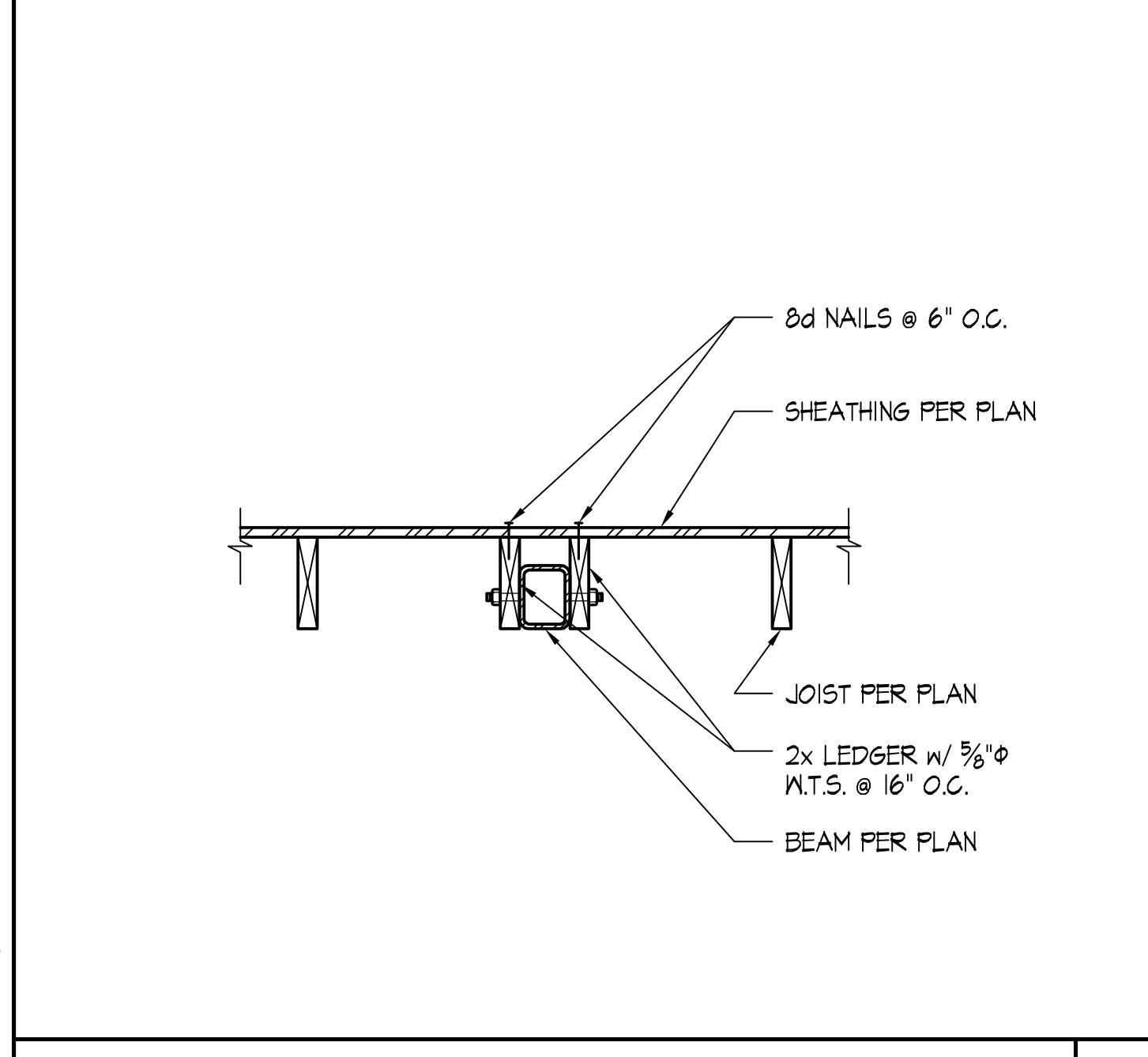


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DETAIL SCALE: 1"=1'-0" 6

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

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



DETAIL SCALE: 1"=1'-0" 9

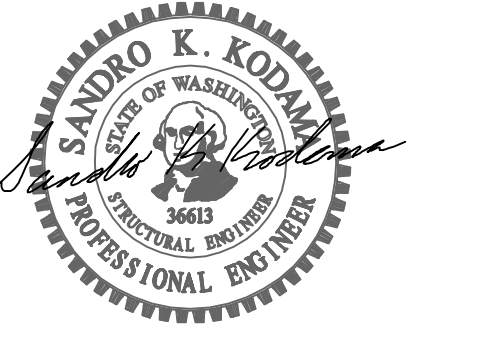
FRONT ENTRY AWNING SCALE: 1"=1'-0" 10

FRONT ENTRY AWNING SCALE: 1"=1'-0" 11

FRONT AWNING ATTACHMENT TO HOUSE SCALE: 1"=1'-0" 12



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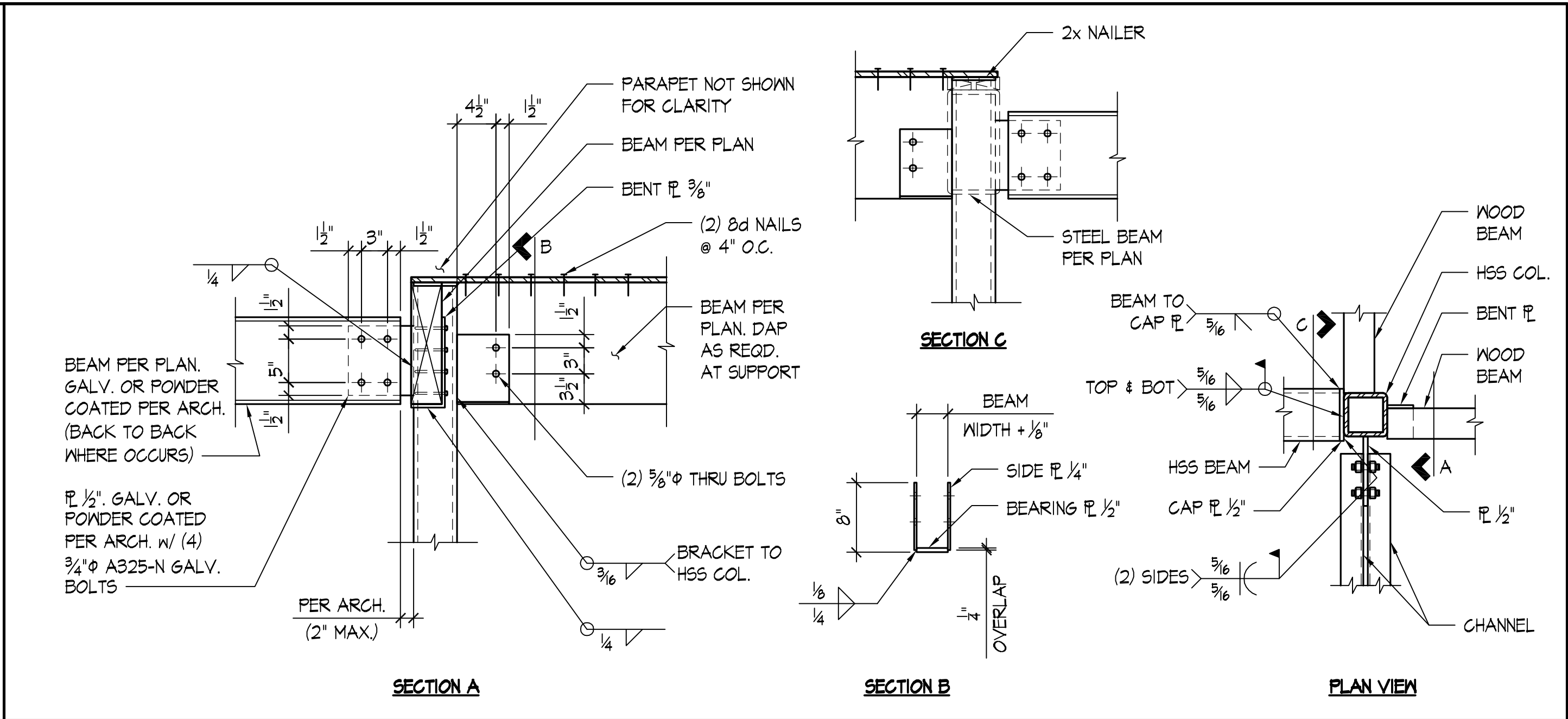
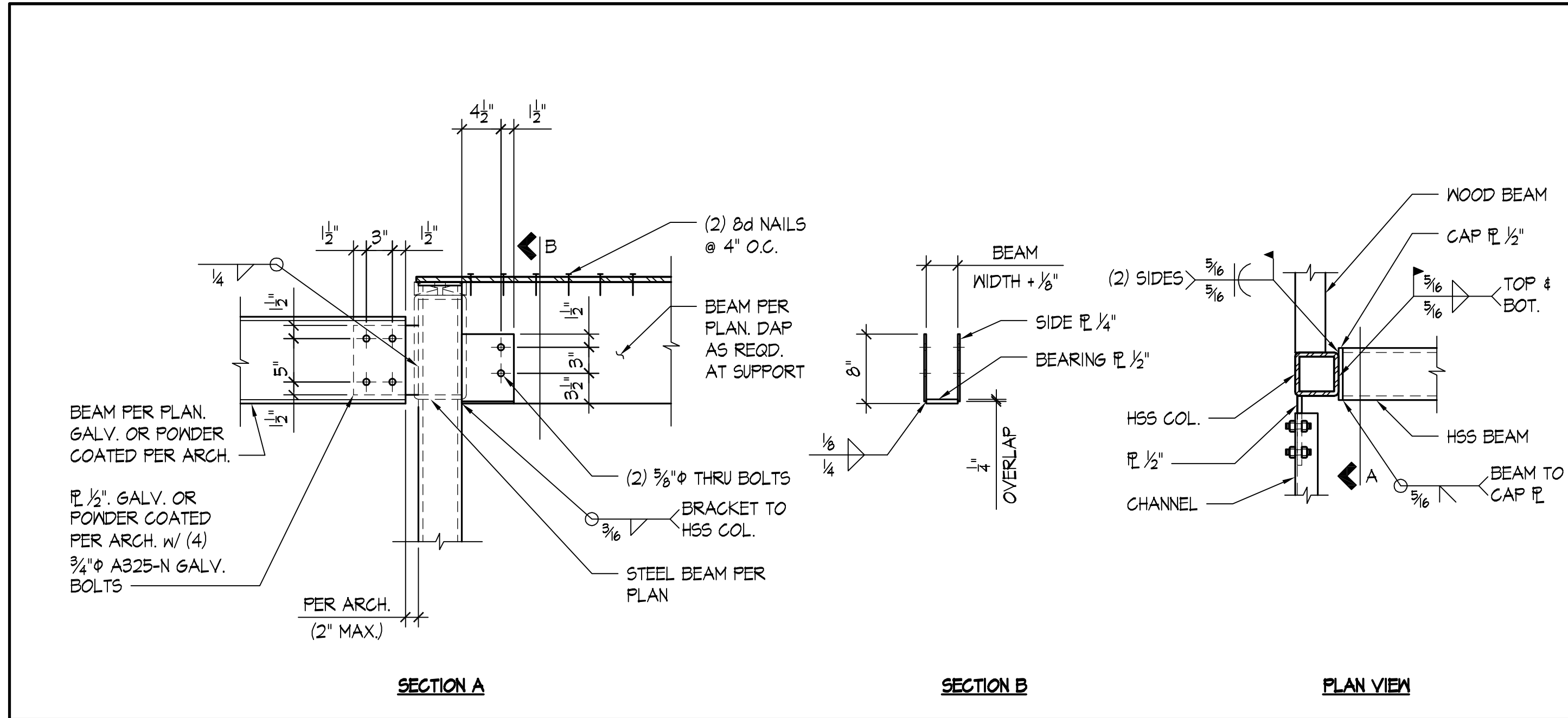
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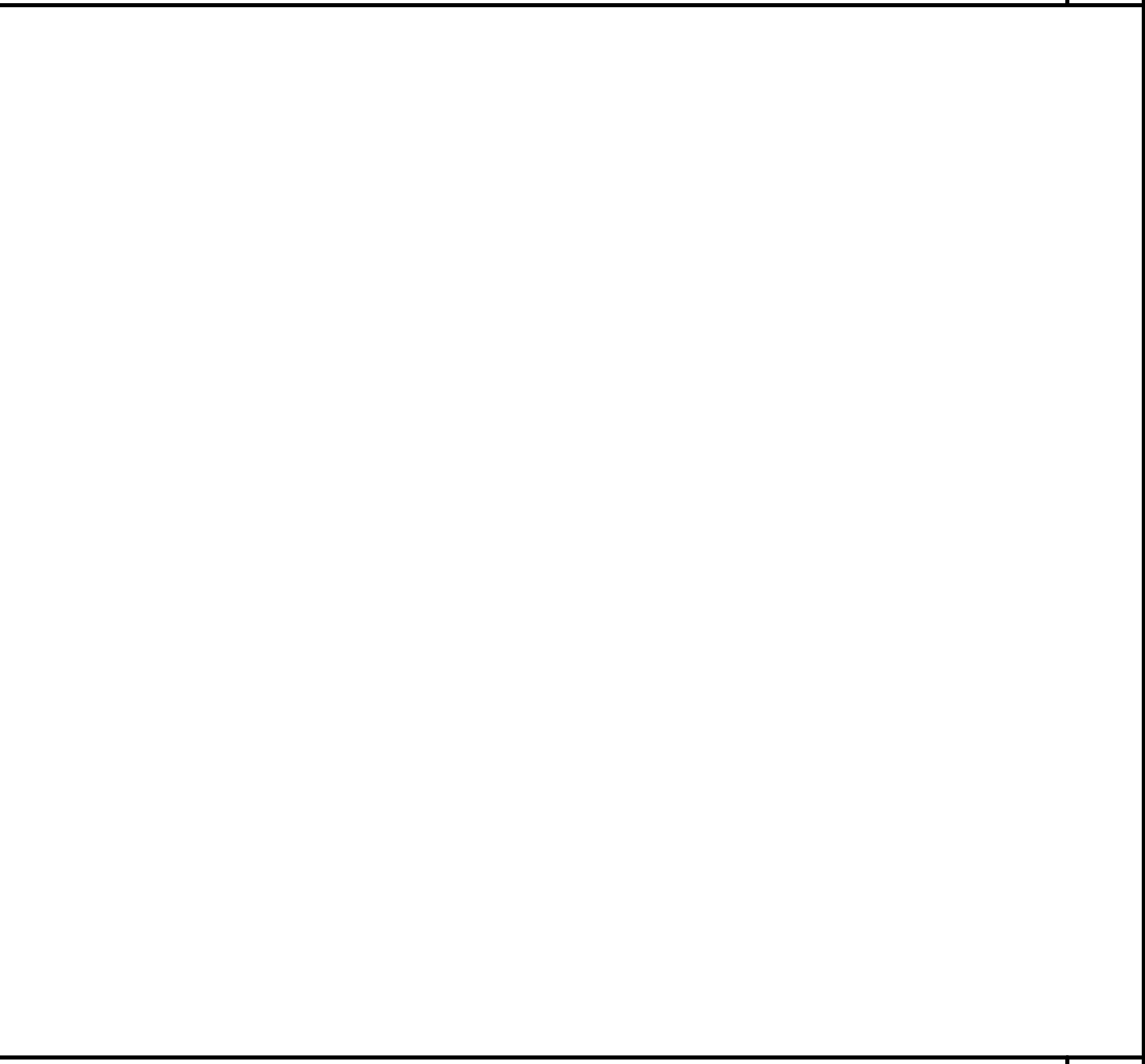
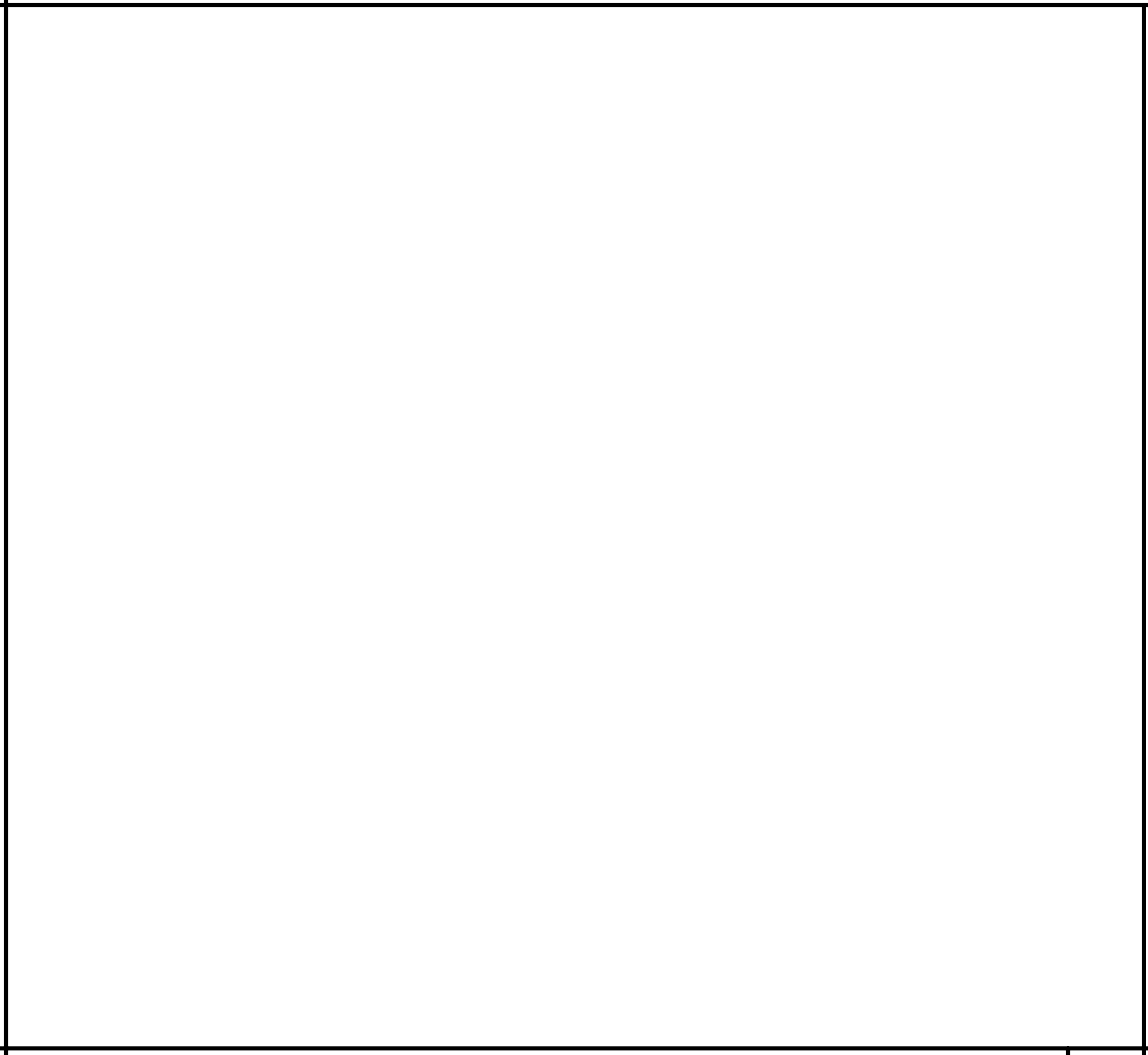
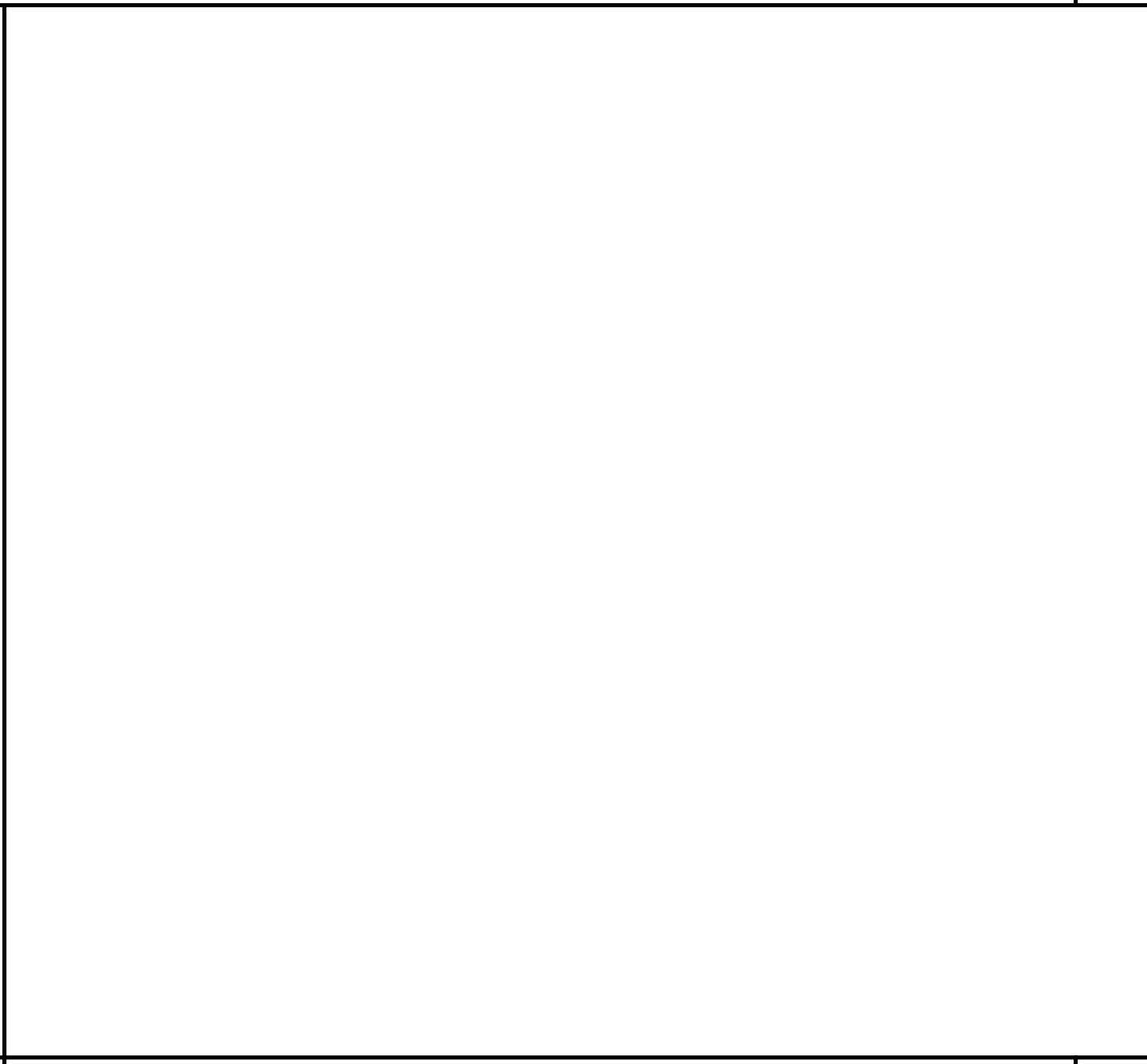
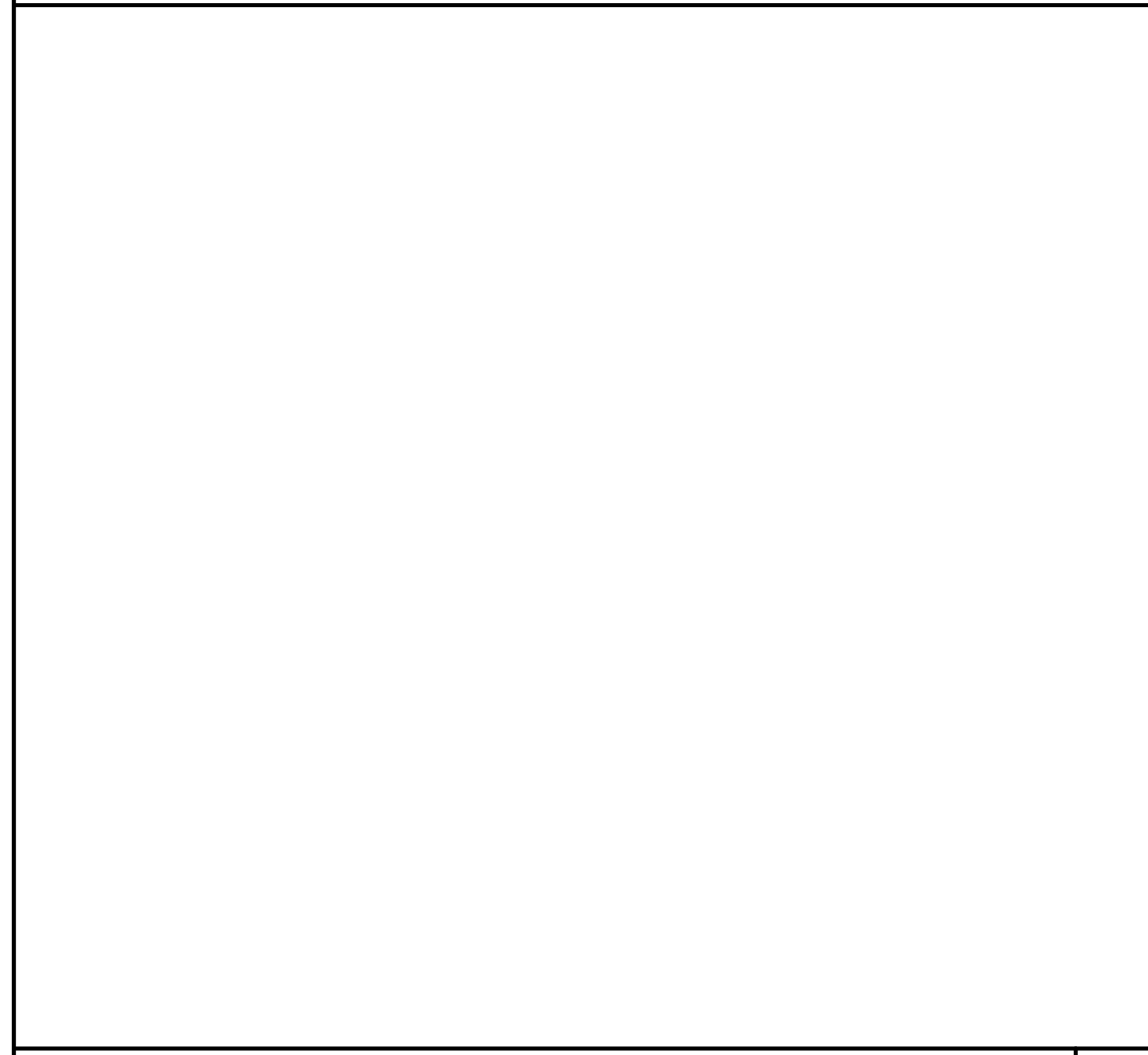
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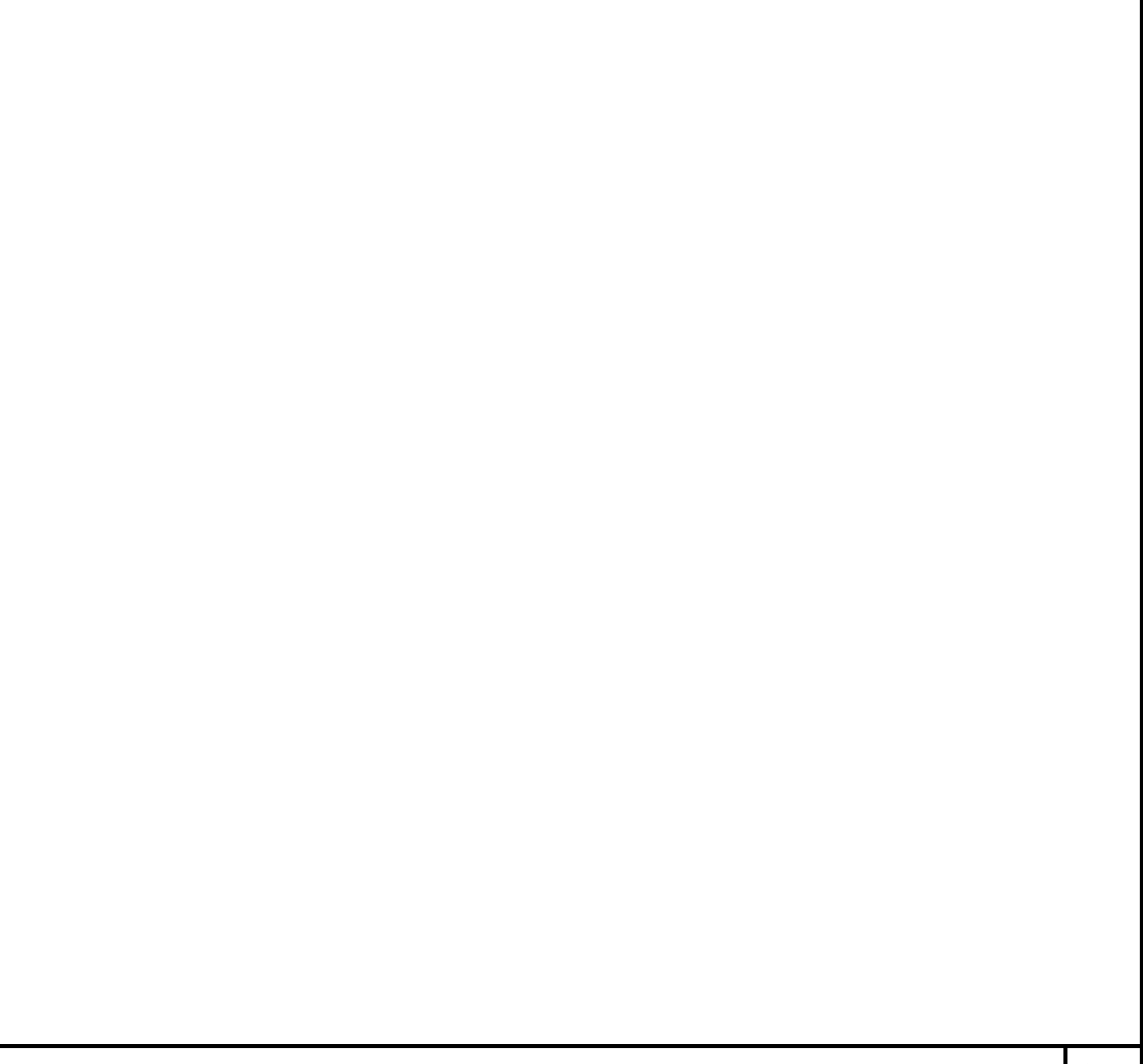
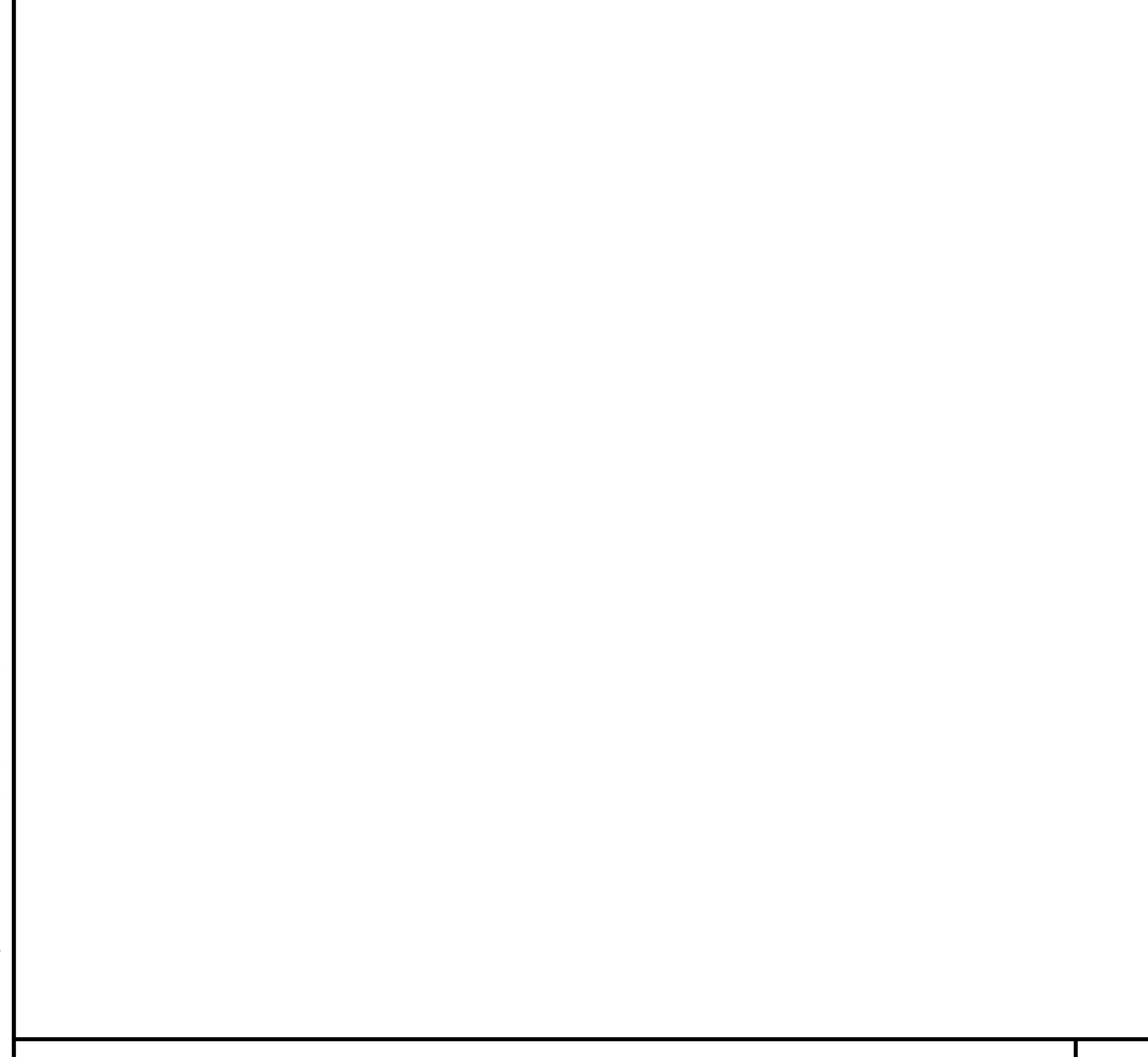


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DETAIL SCALE: 1"=1'-0" 8

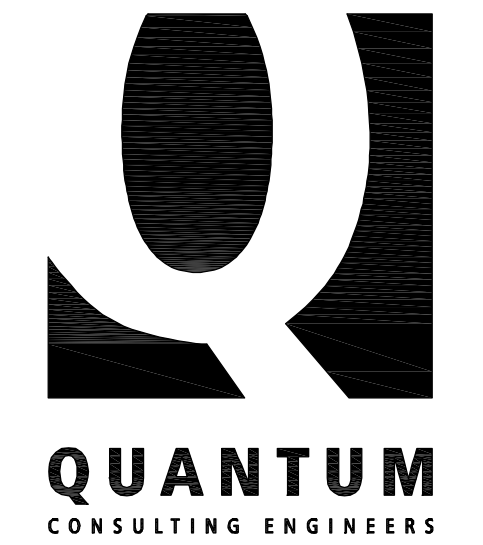


DETAIL SCALE: 1"=1'-0" 9

DETAIL SCALE: 1"=1'-0" 10

DETAIL SCALE: 1"=1'-0" 11

DETAIL SCALE: 1"=1'-0" 12



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GENERAL SHORING NOTES

(The following apply unless shown otherwise on the plans.)

CRITERIA

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
2. REFERENCE DOCUMENTS:
 - A. TOPOGRAPHICAL AND BOUNDARY ALTA/ACSM LAND TITLE SURVEY BY HANSEN SURVEYING & CONSULTING, DATED AUGUST 29, 2018.
 - B. GEOTECHNICAL ENGINEERING INVESTIGATION REPORT #18-282 BY PARSEO, INC., DATED OCTOBER 12, 2018.
3. DESIGN LOADS: THE SOIL PRESSURE DIAGRAMS SHOWN ON THIS SHEET WERE USED FOR DESIGN.
4. SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING: STRUCTURAL STEEL, MISCELLANEOUS METAL, TENDONS, AND ANCHORS. PROPOSED DEMOLITION AND SHORING SEQUENCE SHALL ALSO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
5. INSPECTION: INSPECTION BY THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED FOR PILE PLACEMENT AND TIEBACK PLACING AND STRESSING. ALL PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF PILE. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING LAB. INSPECTION BY A QUALIFIED TESTING LAB SHALL BE PERFORMED FOR STEEL FABRICATION, ERECTION AND WELDING.
6. UTILITY LOCATION THE SHORING CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRILLING PILE HOLES, OR CUTTING OR DIGGING IN STREETS OR ALLEYS. THE UTILITIES INFORMATION SHOWN ON THE SURVEY MAY BE NOT COMPLETE.
7. VERIFICATION: CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURES PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES IN DIMENSIONS AND ALL FIELD CHANGES PRIOR TO FABRICATION AND INSTALLATION.
8. SOILS: SEE GEOTECHNICAL REPORT FOR MORE COMPLETE INFORMATION (NOTE 2 ABOVE). FOLLOW THE RECOMMENDATIONS OF THE REPORT INCLUDING THE FOLLOWING ITEMS:
 - A. SHORING - SEE DETAILS ON THIS SHEET FOR THE SOIL PRESSURE DIAGRAM. ALL PILES SHALL BE EMBEDDED PER THESE DRAWINGS, A MINIMUM OF 10 FEET BELOW THE EXCAVATION BASE AND 5 FEET BELOW ANY EXCAVATIONS LOCATED WITHIN 10 FEET HORIZONTALLY OF THE PILE.
 - B. TIEBACKS - PER THE GEOTECHNICAL REPORT, TIEBACK ANCHORS SHALL BE TESTED. SEE THE SEPARATE SECTION AT THE END OF THESE NOTES.
 - C. SHORING MONITORING - PER THE GEOTECHNICAL REPORT, THE GEOTECHNICAL ENGINEER SHALL CONTINUOUSLY MONITOR THE INSTALLATION OF THE PILES. PER SECTION 1.0 OF THE REPORT, THE GEOTECHNICAL ENGINEER SHALL ALSO REVIEW THE SHORING WALL DEFLECTION DATA COLLECTED BY THE PROJECT SURVEYOR. AT A MINIMUM THE SHORING SHALL BE SURVEYED BEFORE EXCAVATION BEGINS, DURING EXCAVATION, ONCE THE EXCAVATION IS COMPLETE, AND AFTER THE EXCAVATION IS COMPLETE. SURVEYING MUST CONTINUE UNTIL THE PERMANENT STRUCTURE (INCLUDING FLOOR SLABS AS BRACES) IS COMPLETE UP TO STREET GRADES. THE FREQUENCY AND DURATION OF MONITORING SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER BASED ON SHORING PERFORMANCE.
 - D. EXCAVATION - PER THE GEOTECHNICAL REPORT, EXPECT BOTH STRUCTURAL FILL AND GLACIAL TILL SOIL TYPES TO BE ENCOUNTERED. SEE REPORT FOR RECOMMENDATIONS.
 - E. LAGGING - PER THE GEOTECHNICAL REPORT, LAGGING SHALL BE INSTALLED BETWEEN ALL SHORING PILES.
 - F. BACKFILL - PER THE GEOTECHNICAL REPORT, PEA GRAVEL, SAND AND SUITABLE EXCAVATION SPOILS MAY BE USED AS SHORING WALL BACKFILL, WHEREAS CONCRETE, GDF OR OTHER IMPERMEABLE MATERIALS MAY NOT BE USED.
 - G. DRAINAGE - PER THE GEOTECHNICAL REPORT, BACKFILL BEHIND THE WALL SHOULD CONNECT TO A CONTINUOUS HORIZONTAL DRAIN LOCATED IN FRONT OF THE WALL THROUGH THE USE OF PREFABRICATED VERTICAL DRAINAGE STRIPS.
9. PRE-CONSTRUCTION MEETING: A PRE-CONSTRUCTION MEETING WITH THE BUILDING DEPARTMENT, IS REQUIRED BEFORE THE START OF SHORING INSTALLATION. ATTENDEES SHALL INCLUDE REPRESENTATIVES OF THE OWNER, GENERAL CONTRACTOR, EXCAVATION AND SHORING SUBCONTRACTORS, THE GEOTECHNICAL ENGINEER, SURVEYOR, STRUCTURAL ENGINEER AND BUILDING DEPARTMENT PERSONNEL.

CONCRETE GROUT

10. CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF CHAPTER 19 OF THE IBC. CONCRETE GROUT STRENGTHS OVER 1,000 PSI SHALL BE VERIFIED BY STANDARD CYLINDER TESTS, UNLESS APPROVED OTHERWISE. REQUIRED ULTIMATE COMPRESSIVE STRENGTHS OF CONCRETE GROUT SHALL BE REACHED BY 7 DAYS FOR TIEBACKS AND 28 DAYS FOR PILES.
- | FC (PSI) | MINIMUM CEMENT PER CUBIC YARD | MAXIMUM WATER PER 94 LB OF CEMENT | USE |
|----------|-------------------------------|-----------------------------------|---|
| 500 | 1-1/2 SACKS | - | PILE & TIEBACK (ZONE "B") LEAN CONCRETE GROUT |
| 2500 | 5 SACKS | - | PILE STRUCTURAL CONCRETE GROUT |
| 3000 | 6 SACKS | 6 GALLONS | UNDERPINNING STRUCTURAL GROUT |
| 3000 | 6 SACKS | 6 GALLONS | TIEBACK STRUCTURAL GROUT (ZONE "A") |

THE CONTRACTOR SHALL SUBMIT A CONCRETE GROUT MIX DESIGN FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE MIX DESIGNS WILL BE REVIEWED FOR CONFORMANCE TO IBC CH. 19.

STEEL

11. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST EDITION, PLUS ALL REFERENCED CODES.
12. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	F _y
A. PLATES, SHAPES, ANGLES, AND RODS	A36	36 KSI
B. SOLDIER PILES	A992 OR A572, GRADE 50	50 KSI
C. HEADED SHEAR STUDS	A108	49 KSI
D. PIPE SECTIONS	A53 (TYPE E OR S, GRADE B)	35 KSI
E. PIPE SECTIONS	A500 (GRADE B)	42 KSI
F. STRUCTURAL TUBING	A500 (GRADE B)	46 KSI
13. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.M.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70XX ELECTRODES OR TO KSI WELD METAL. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.M.S.) SHALL BE USED.
14. PRE-STRESSING STEEL:
 - A. HIGH STRENGTH RODS (STRESSED AND NON-STRESSED) SHALL BE DYNIDAS THREAD BARS WITH APPROPRIATE ANCHORAGE PLATES, NUTS AND COUPLERS, IN CONFORMANCE WITH ASTM A722 (F_{pu} = 150,000 PSI).
 - B. STRAND SHALL BE 1/2" DIAMETER, 7-WIRE STRESS-RELIEVED (OR LOW RELAXATION), CLEAN AND FREE FROM CORROSION, HAVING A GUARANTEED MINIMUM ULTIMATE STRENGTH OF 41300 POUNDS AND MANUFACTURED IN ACCORDANCE WITH ASTM A416, GRADE 270. ONE MILL TEST SHALL BE SUBMITTED FOR REVIEW FOR EACH REEL USED.

WOOD LAGGING

15. SAWN LUMBER: SAWN LUMBER SHALL CONFORM TO "GRADING AND DRESSING RULES," WEST COAST LUMBER INSPECTION BUREAU (WCLIB), LATEST EDITION. LUMBER SHALL BE THE SPECIES AND GRADE NOTED BELOW:

USE	GRADE	MAX. SPAN	SIZE	DEPTH BELOW GRADE
TIMBER LAGGING	HEM-FIR OR DF-L NO. 2	7'-8"	6x12	0'-0" TO 20'-0" (EAST/SOUTH WALL)
TIMBER LAGGING	HEM-FIR OR DF-L NO. 2	8'-0"	4x12	0'-0" TO 12'-0"

TIMBER LAGGING SHALL BE PRESSURE TREATED WITH WATERBORNE PRESERVATIVES IN ACCORDANCE WITH ANPA STANDARD U1 TO A MINIMUM RETENTION OF 0.4 LBS/CUFT.

SHORING INSTALLATION

16. DEMOLITION: SHORING AND SOIL EXCAVATION SHALL BE DONE SIMULTANEOUSLY.
17. HOLE DIGGING: PILE AND ANCHOR HOLES SHALL BE DRILLED WITHOUT LOSS OF GROUND AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED PILES AND ANCHORS. THIS MAY INVOLVE CASING THE HOLES OR OTHER METHODS OF PROTECTION FROM CAVING. SEE GEOTECHNICAL REPORT FOR RECOMMENDED HOLE DIGGING PROCEDURE. THE BOTTOM OF THE BORED HOLES SHALL BE CLEANED OUT USING A BUCKET AUGER.
18. PILE PLACEMENT: FOR ALL PILES SPACED CLOSER THAN 1' O.C., ALTERNATE PILES SHALL BE PLACED SO THAT A MINIMUM OF 24 HOURS IS ALLOWED FOR THE CONCRETE GROUT TO CURE BEFORE DRILLING THE DIRECTLY ADJACENT PILES.
19. STEEL PILE TOLERANCES:
 - 1" INSIDE PERPENDICULAR TO SHORING WALL.
 - 1" OUTSIDE PERPENDICULAR TO SHORING WALL.
 - 3" LATERALLY.
20. EXCAVATION BELOW TIEBACKS: TIEBACK INSTALLATION AND PRE-STRESSING SHALL BE COMPLETED BEFORE EXCAVATING MORE THAN 2 FEET BELOW THE TIEBACK LEVEL.
21. LAGGING: TIMBER LAGGING SHALL BE INSTALLED IN ALL AREAS. VOIDS BETWEEN LAGGING AND SOIL SHALL BE BACKFILLED/DRAINAGE BEHIND THE WALL. MUST BE MAINTAINED (SEE ITEM 8F ABOVE). IT IS THE CONTRACTOR'S RESPONSIBILITY TO LIMIT THE AMOUNT OF EXPOSED SOIL WITHOUT LAGGING TO AVOID LOSS OF SOIL. IN NO CASE SHALL THE EXPOSED SOIL HEIGHT EXCEED 4'-0". SPECIAL CARE SHOULD BE TAKEN TO AVOID GROUND LOSS DURING EXCAVATION. NO EXCAVATION FOR THE IMMEDIATE LOWER LIFT IS ALLOWED UNTIL VOIDS BEHIND THE LAGGING OF THE PRECEDING LIFT ARE FILLED WITH APPROVED MATERIALS.
22. SHORING MONITORING: SYSTEMATIC PROGRAM OF OBSERVATION SHALL BE CONDUCTED DURING THE PROJECT EXECUTION TO DETERMINE THE EFFECT OF CONSTRUCTION ON ADJACENT FACILITIES AND STRUCTURES IN ORDER TO PROTECT THEM FROM SERIOUS DAMAGE. SEE GEOTECHNICAL REPORT FOR RECOMMENDATIONS. A LICENSED SURVEYOR (NOT THE CONTRACTOR) MUST DO THE SURVEYING AT LEAST ONCE A WEEK. FIELD DATA AND MEASUREMENTS ARE TO BE SUBMITTED TO STRUCTURAL AND GEOTECHNICAL ENGINEER FOR REVIEW (SEE ITEM 8B ABOVE).
23. SLOPES: ALL SLOPES SHALL BE PROTECTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
24. REMOVAL: ALL PILES, ANCHORS, GROUT AND LAGGING LOCATED WITHIN THE CITY R.O.W. SHALL BE REMOVED TO A DEPTH OF 4'-0" BELOW FINAL GRADE ONCE THEY ARE NO LONGER NEEDED FOR CONSTRUCTION.

TIEBACK TESTING AND STRESSING

25. VERIFICATION TESTS (200% TESTS):
 - * PRIOR TO INSTALLING PRODUCTION ANCHORS, PERFORM A MINIMUM OF TWO TESTS EACH ON EACH ANCHOR TYPE, INSTALLATION METHOD AND SOIL TYPE WITH THE TESTED ANCHORS CONSTRUCTED TO THE SAME DIMENSIONS AS PRODUCTION ANCHORS.
 - * TEST LOCATIONS TO BE DETERMINED IN CONJUNCTION WITH AND APPROVED BY THE GEOTECHNICAL ENGINEER.
 - * TEST ANCHORS, WHICH WILL BE LOADED TO 200% OF THE DESIGN LOAD, MAY REQUIRE ADDITIONAL PRESTRESSING STEEL (STEEL LOAD NOT TO EXCEED 80% OF THE ULTIMATE TENSILE STRENGTH) OR REINFORCING OF THE SOLDIER PILE.
 - * LOAD TEST ANCHORS TO 150% LOAD IN 25% LOAD INCREMENTS, HOLDING EACH INCREMENTAL LOAD FOR AT LEAST 5 MINUTES AND RECORDING DEFLECTION OF THE ANCHOR HEAD AT VARIOUS TIMES WITHIN EACH HOLD TO THE NEAREST 0.01 INCH.
 - * AT THE 150% LOAD, THE HOLDING PERIOD SHALL BE AT LEAST 60 MINUTES.
 - * AFTER COMPLETION OF THE 150% HOLD, LOAD THE ANCHOR IN 25% INCREMENTS TO THE 200% LOAD, WHICH WILL BE HELD FOR 10 MINUTES.
 - * A SUCCESSFUL TEST SHALL PROVIDE A MEASURED CREEP RATE OF 0.04 INCHES OR LESS AT THE 150% LOAD BETWEEN 1 AND 10 MINUTES, AND 0.08 INCHES OR LESS BETWEEN 6 AND 60 MINUTES, AND ALL TIME INCREMENTS SHALL HAVE A CREEP RATE THAT IS LINEAR OR DECREASING WITH TIME. THE APPLIED LOAD MUST REMAIN CONSTANT DURING ALL HOLDING PERIODS (I.E., NO MORE THAN 5% VARIATION FROM THE SPECIFIED LOAD).
26. PROOF TESTS (130% TESTS ON ALL LOAD ANCHORS):
 - * LOAD TEST ALL PRODUCTION ANCHORS TO 130% OF THE DESIGN LOAD IN 25% LOAD INCREMENTS, HOLDING EACH INCREMENTAL LOAD UNTIL A STABLE DEFLECTION IS ACHIEVED (RECORD DEFLECTION OF THE ANCHOR HEAD AT VARIOUS TIMES WITHIN EACH HOLD TO THE NEAREST 0.01 INCH).
 - * AT THE 130% LOAD, THE HOLDING PERIOD SHALL BE AT LEAST 10 MINUTES.
 - * A SUCCESSFUL TEST SHALL PROVIDE A MEASURED CREEP RATE OF 0.04 INCHES OR LESS AT THE 130% LOAD BETWEEN 1 AND 10 MINUTES WITH A CREEP RATE THAT IS LINEAR OR DECREASING WITH TIME. THE APPLIED LOAD MUST REMAIN CONSTANT DURING THE HOLDING PERIOD (I.E., NO MORE THAN 5% VARIATION FROM THE 130% LOAD). ANCHORS FAILING THIS PROOF TESTING CREEP ACCEPTANCE CRITERIA MAY BE HELD AN ADDITIONAL 50 MINUTES FOR CREEP MEASUREMENT. ACCEPTABLE PERFORMANCE WOULD EQUATE TO A CREEP OF 0.08 INCHES OR LESS BETWEEN 5 AND 50 MINUTES WITH A LINEAR OR DECREASING CREEP RATE.

FOLLOWING PROOF LOADING, EACH ANCHOR SHALL BE LOCKED OFF AT 100% OF DESIGN LOADING.

VERIFICATION TESTED ANCHORS OR EXTENDED CREEP PROOF TESTED ANCHORS NOT MEETING THE ACCEPTANCE CRITERIA WILL REQUIRE A REDESIGN BY THE CONTRACTOR TO ACHIEVE THE ACCEPTANCE CRITERIA.

27. TIEBACK NOTES: ALL TIEBACKS ARE TO BE REMAIN STRESSED.

A BOND BREAKER (SUCH AS A SLIP SHEATH) SHALL BE CONSTRUCTED IN THE NO LOAD ZONE WHEN THE INSTALLATION PROCEDURES USE SINGLE STAGE GROUTING.



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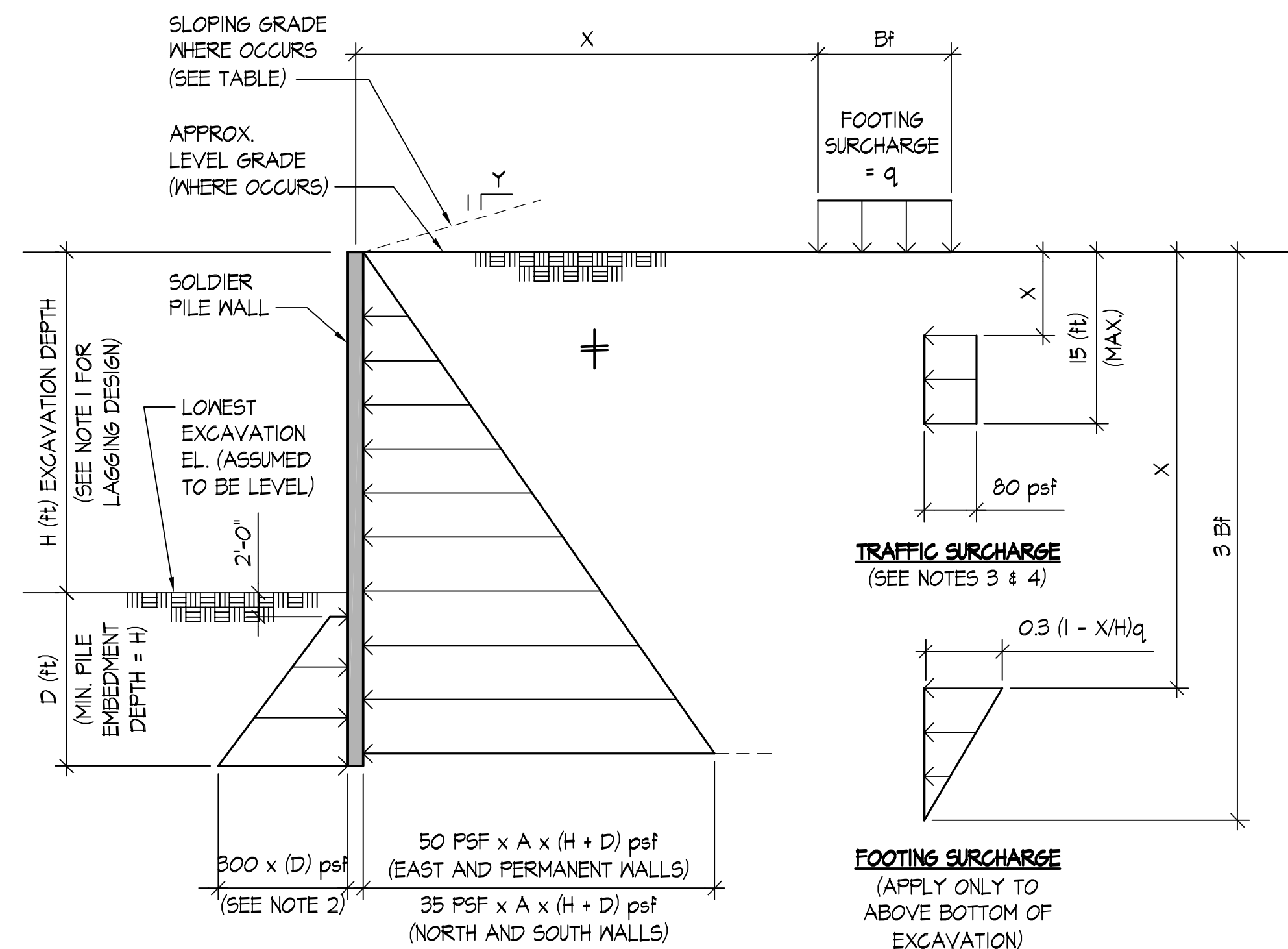
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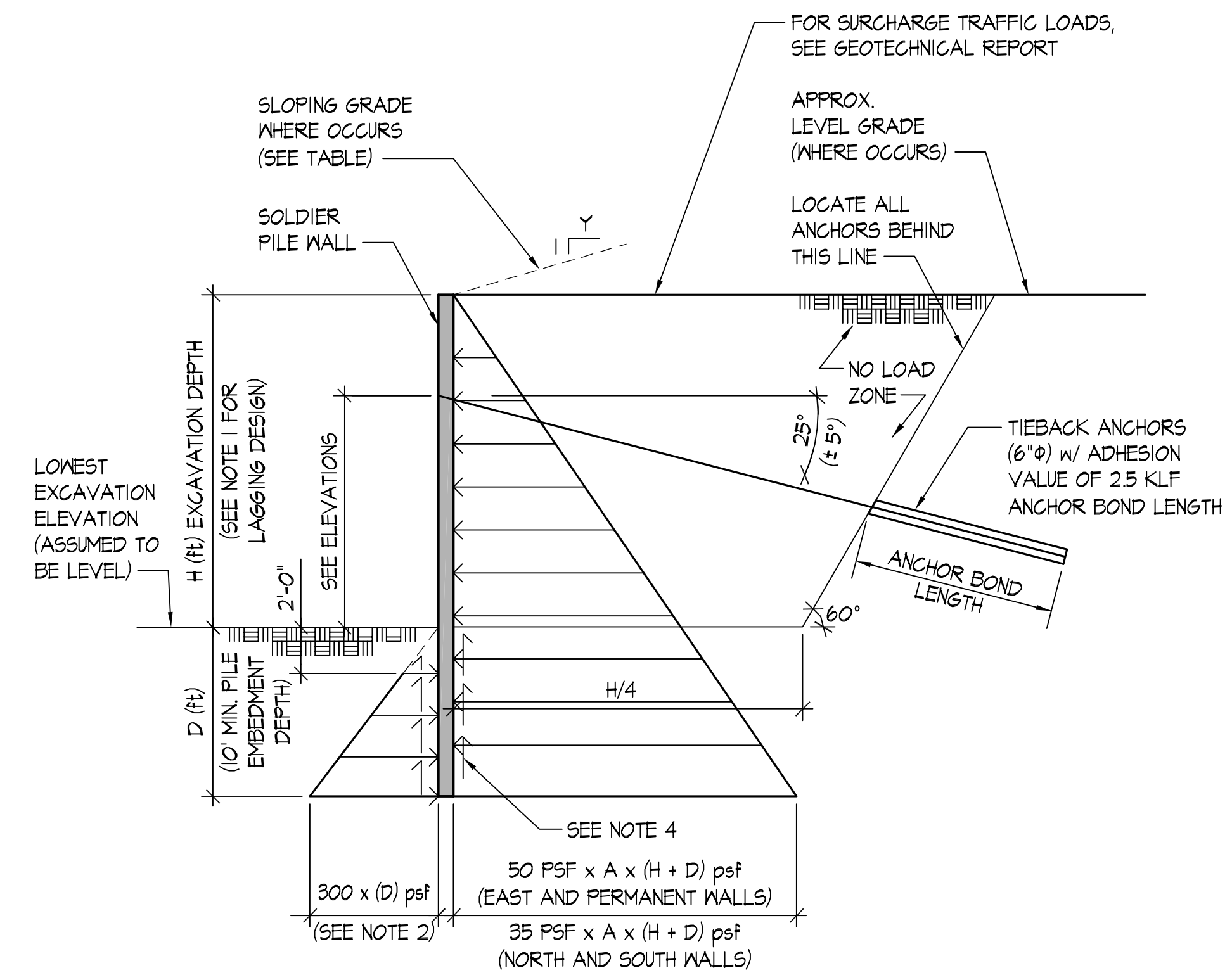
TYPICAL SHORING NOTES



PASSIVE PRESSURE ACTIVE PRESSURE

- NOTES:**
- 50% OF THE LATERAL EARTH PRESSURE USED TO DESIGN TIMBER LAGGING.
 - PASSIVE PRESSURE ACTS OVER 2.0 TIMES THE GROUTED SOLDIER PILE DIAMETER.
 - ACTIVE AND AT-REST SOIL PRESSURES ACT OVER THE PILE SPACING ABOVE AND PILE DIAMETER BELOW BOTTOM OF EXCAVATION. IT IS ASSUMED THAT NO HYDROSTATIC PRESSURES ACT ON THE BACK OF SHORING.
 - 80 PSF UNIFORM SURCHARGE NOT APPLIED AT SLOPED BACKSLOPE CONDITION.

EARTH PRESSURE FACTOR FOR BACKSLOPE	
BACKSLOPE Y:I	EARTH PRESSURE FACTOR, A
FLAT	1.00
2 : 1	1.35
1.5 : 1	1.50



PASSIVE PRESSURE ACTIVE PRESSURE

- NOTES:**
- 50% OF THE LATERAL EARTH PRESSURE USED TO DESIGN TIMBER LAGGING. EXCAVATION PER GEOTECHNICAL REPORT.
 - PASSIVE PRESSURE ACT OVER 2.0 TIMES THE GROUTED SOLDIER PILE DIAMETER.
 - ACTIVE AND AT-REST PRESSURES ACT OVER THE PILE SPACING ABOVE AND PILE DIAMETER BELOW BOTTOM OF EXCAVATION. IT IS ASSUMED THAT NO HYDROSTATIC PRESSURES ACT ON THE BACK OF SHORING WALLS.

EARTH PRESSURE FACTOR FOR BACKSLOPE	
BACKSLOPE Y:I	EARTH PRESSURE FACTOR, A
FLAT	1.00
2 : 1	1.35
1.5 : 1	1.50

SOIL PRESSURE DIAGRAM FOR CANTILEVERED SOLDIER PILE SHORING WALLS

SCALE: NONE 6

SOIL PRESSURE DIAGRAM FOR SINGLE TIED-BACK SHORING WALLS

SCALE: NONE 8

DETAIL

SCALE: 3/4"=1'-0"

9

DETAIL

SCALE: 3/4"=1'-0"

10

DETAIL

SCALE: 3/4"=1'-0"

11

DETAIL

SCALE: 3/4"=1'-0"

12



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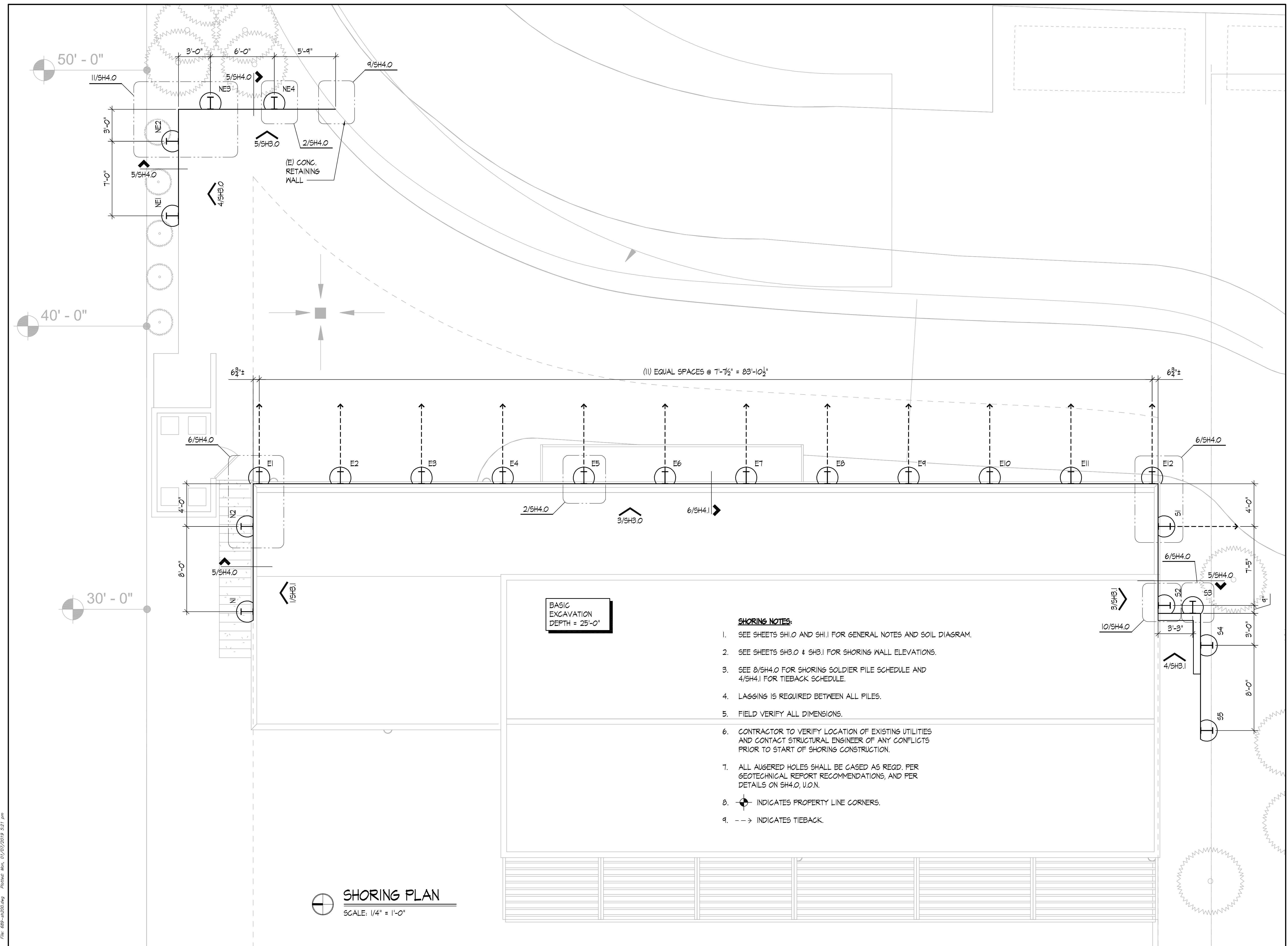
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TYPICAL SHORING DIAGRAM



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

BASIC EXCAVATION DEPTH = 25'-0"

SHORING NOTES:

1. SEE SHEETS SH1.0 AND SH1.1 FOR GENERAL NOTES AND SOIL DIAGRAM.
2. SEE SHEETS SH3.0 & SH3.1 FOR SHORING WALL ELEVATIONS.
3. SEE 8/SH4.0 FOR SHORING SOLDIER PILE SCHEDULE AND 4/SH4.1 FOR TIEBACK SCHEDULE.
4. LAGGING IS REQUIRED BETWEEN ALL PILES.
5. FIELD VERIFY ALL DIMENSIONS.
6. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES AND CONTACT STRUCTURAL ENGINEER OF ANY CONFLICTS PRIOR TO START OF SHORING CONSTRUCTION.
7. ALL AUGERED HOLES SHALL BE CASED AS REQD. PER GEOTECHNICAL REPORT RECOMMENDATIONS, AND PER DETAILS ON SH4.0, U.O.N.
8. INDICATES PROPERTY LINE CORNERS.
9. INDICATES TIEBACK.



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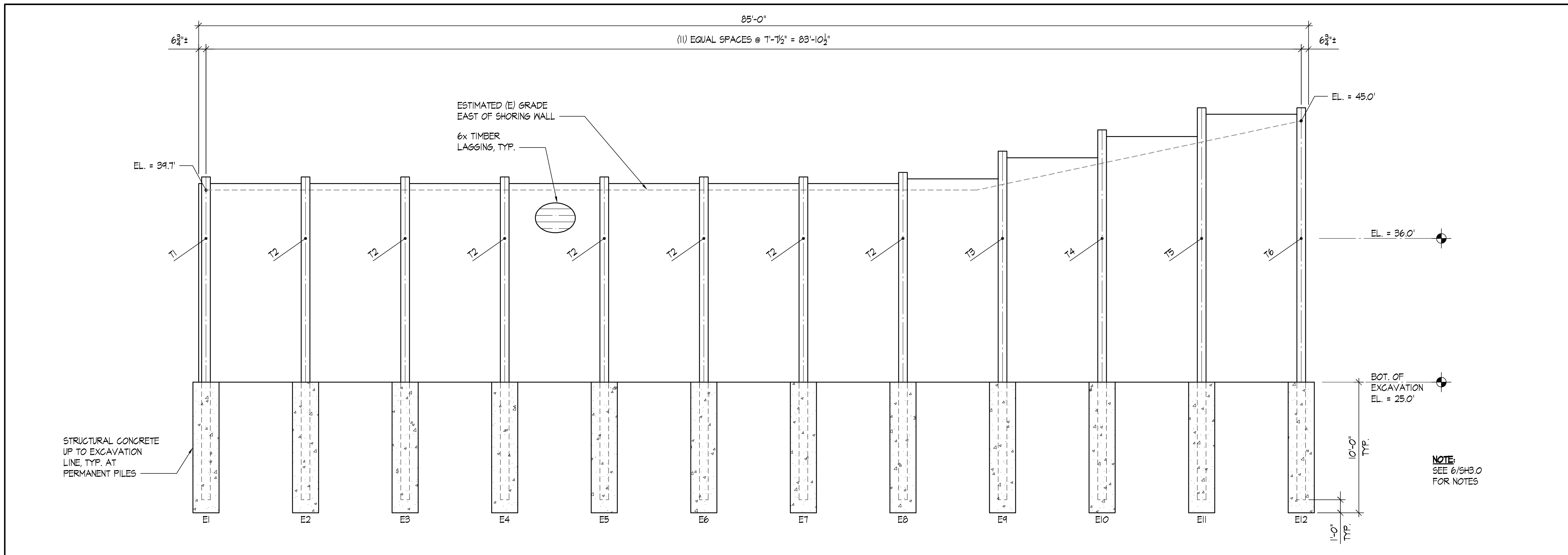
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SHORING PLAN

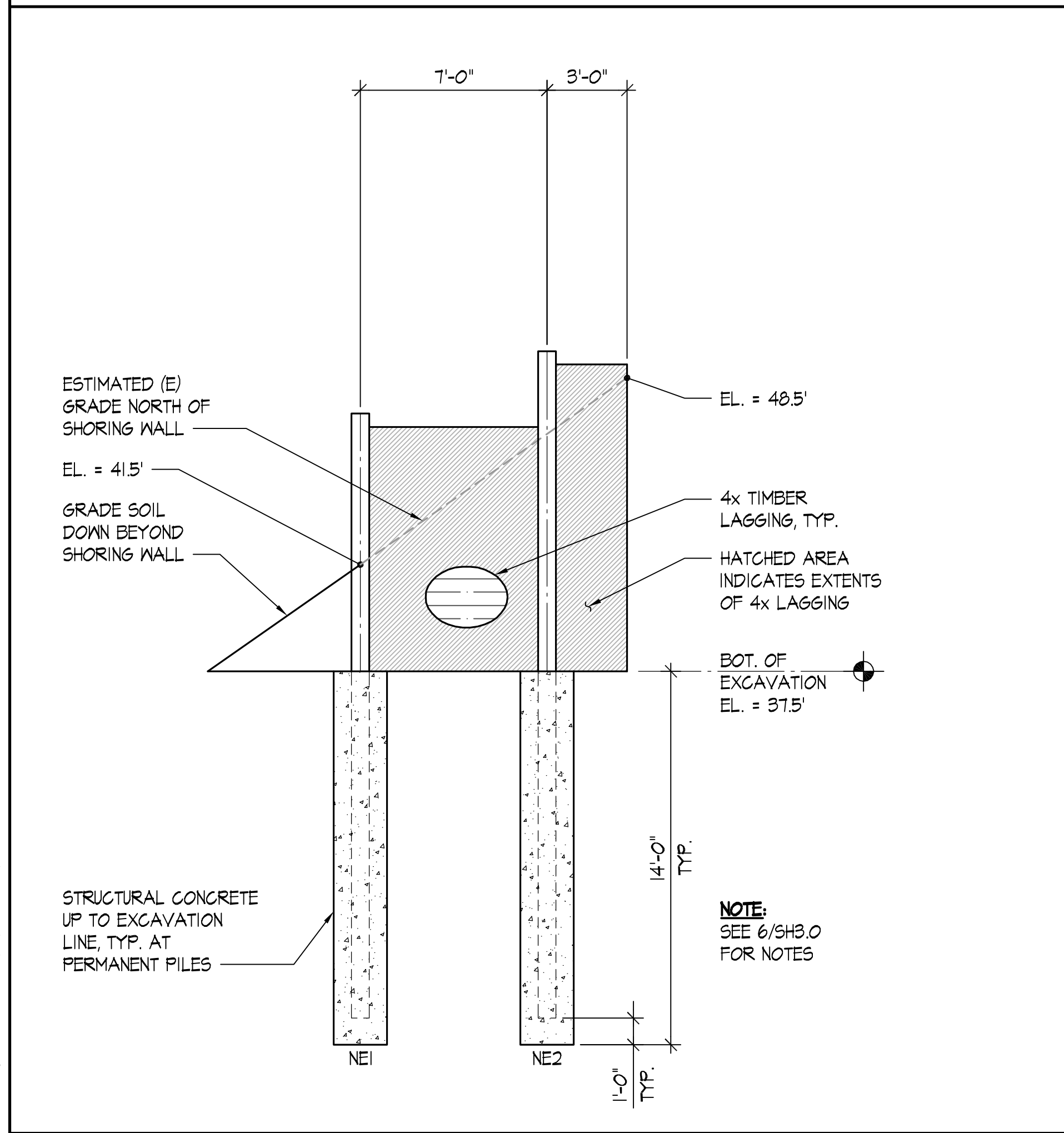
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EAST SHORING WALL ELEVATION

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

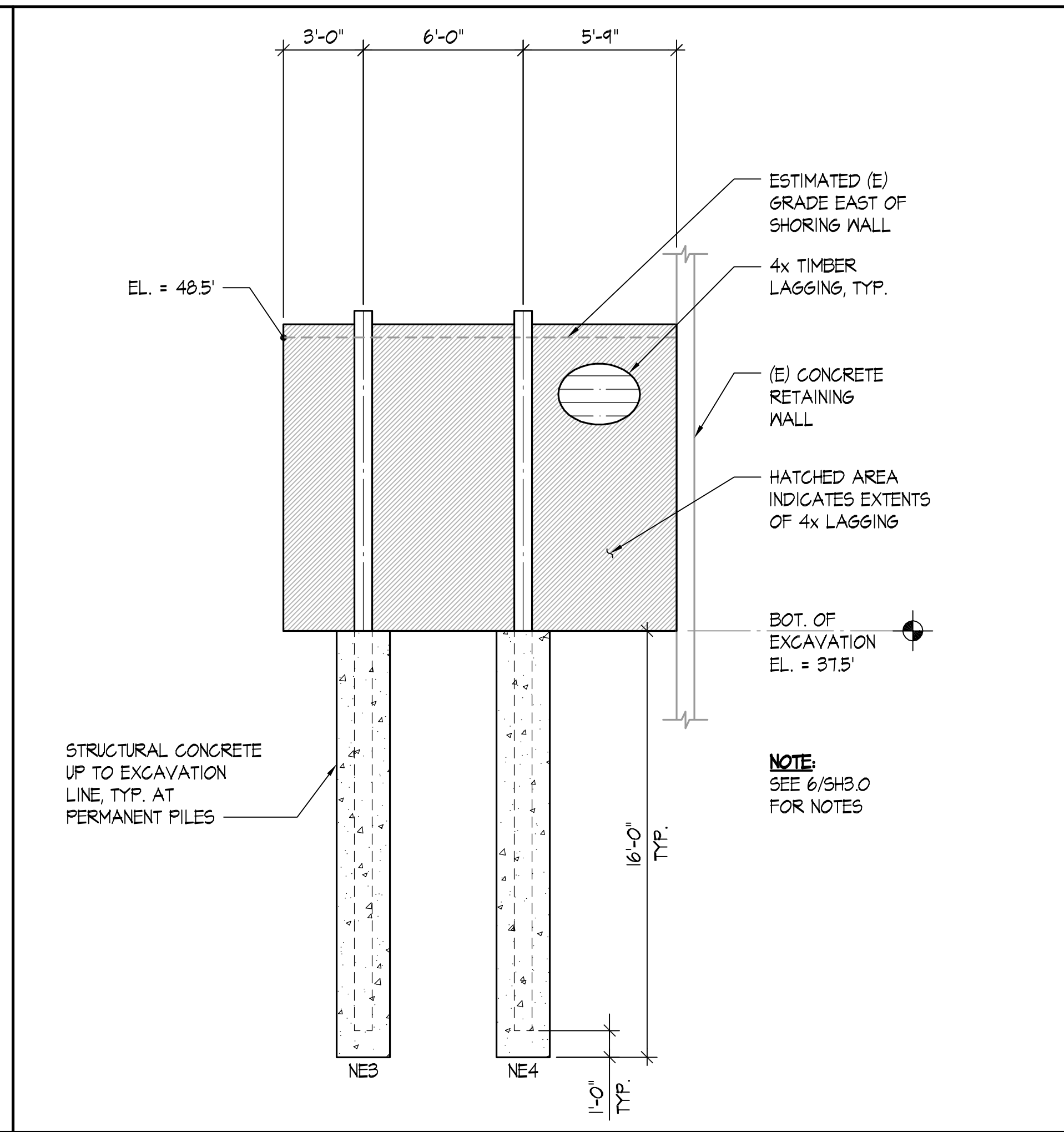
3



NORTHEAST SHORING WALL ELEVATION

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

4



NORTHEAST SHORING WALL ELEVATION

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

5

NOTES:

- WI INDICATES SOLDIER PILE PER SCHEDULE ON 8/SH4.0.
- TI = XX' INDICATES TIE BACK PER SCHEDULE ON 4/SH4.1.
- SPOT GRADE ELEVATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
- CONTRACTOR TO VERIFY AND COORDINATE ELEVATIONS & PILE HEIGHT/DEPTH WITH FIELD CONDITIONS.

SHORING NOTES

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

6



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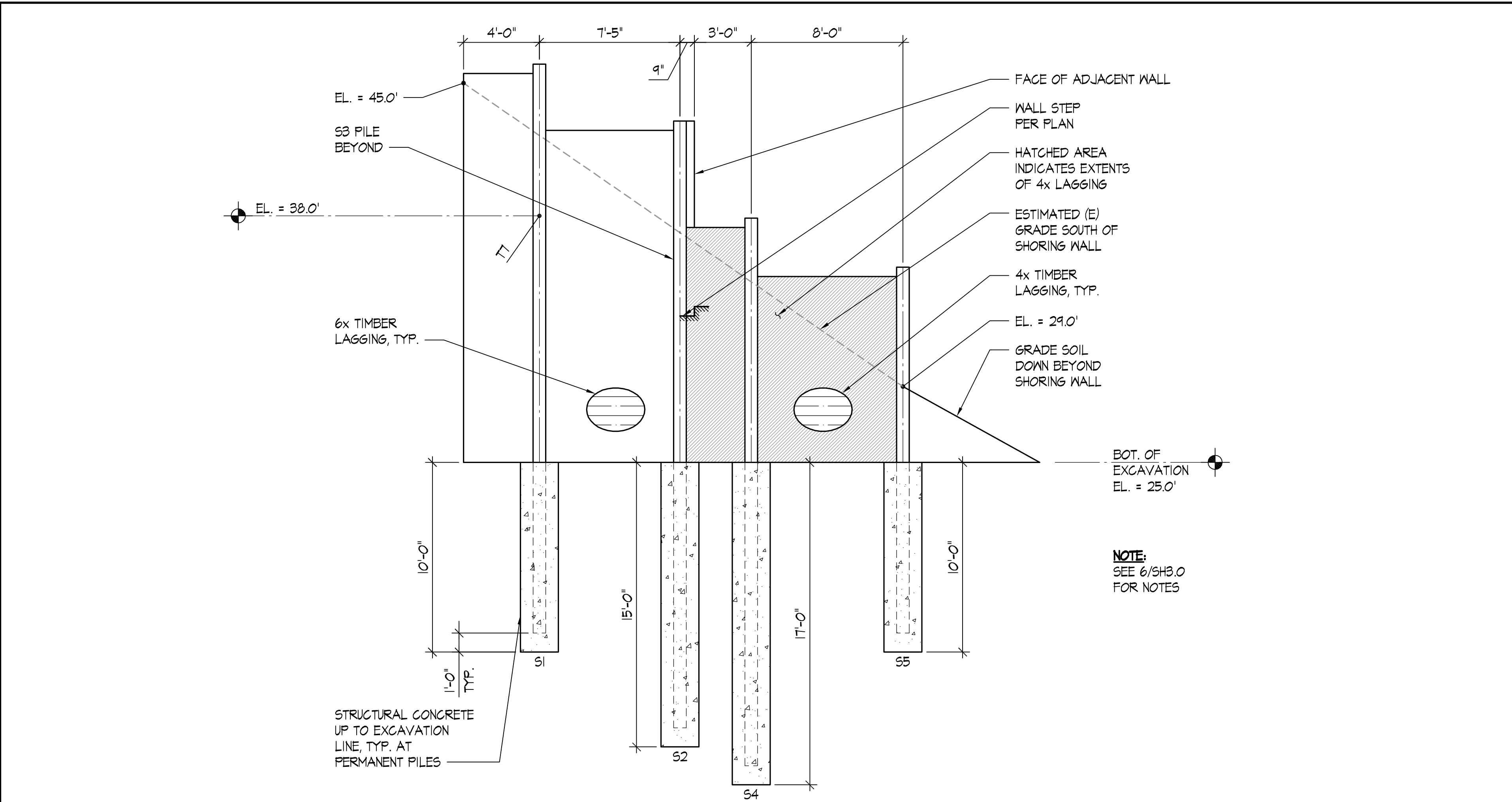
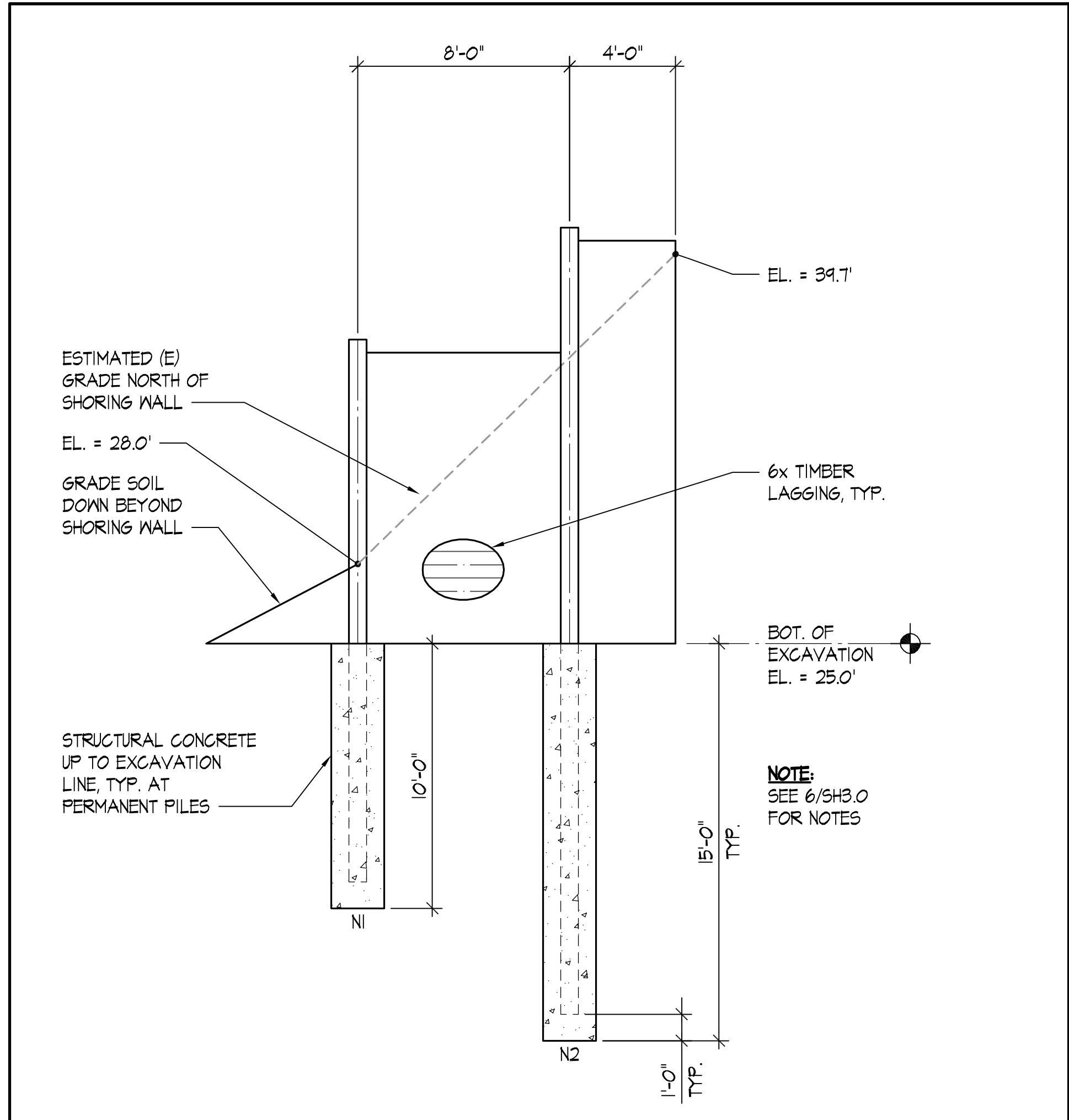
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SHORING ELEVATIONS

SH3.0

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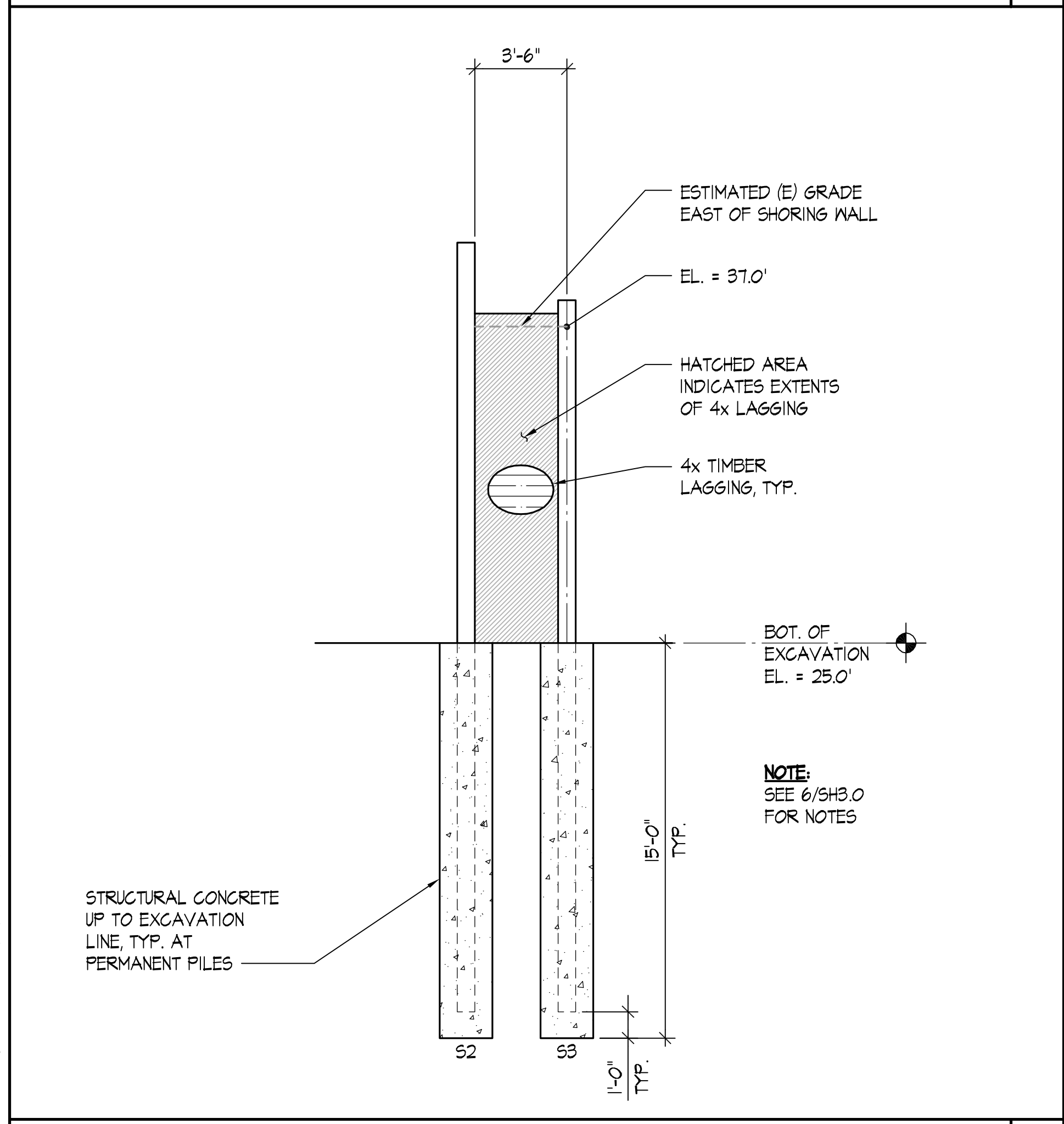
NORTH SHORING WALL ELEVATION

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

SOUTH SHORING WALL ELEVATION

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

3



SOUTH SHORING WALL ELEVATION

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

DETAIL

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

DETAIL

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

6



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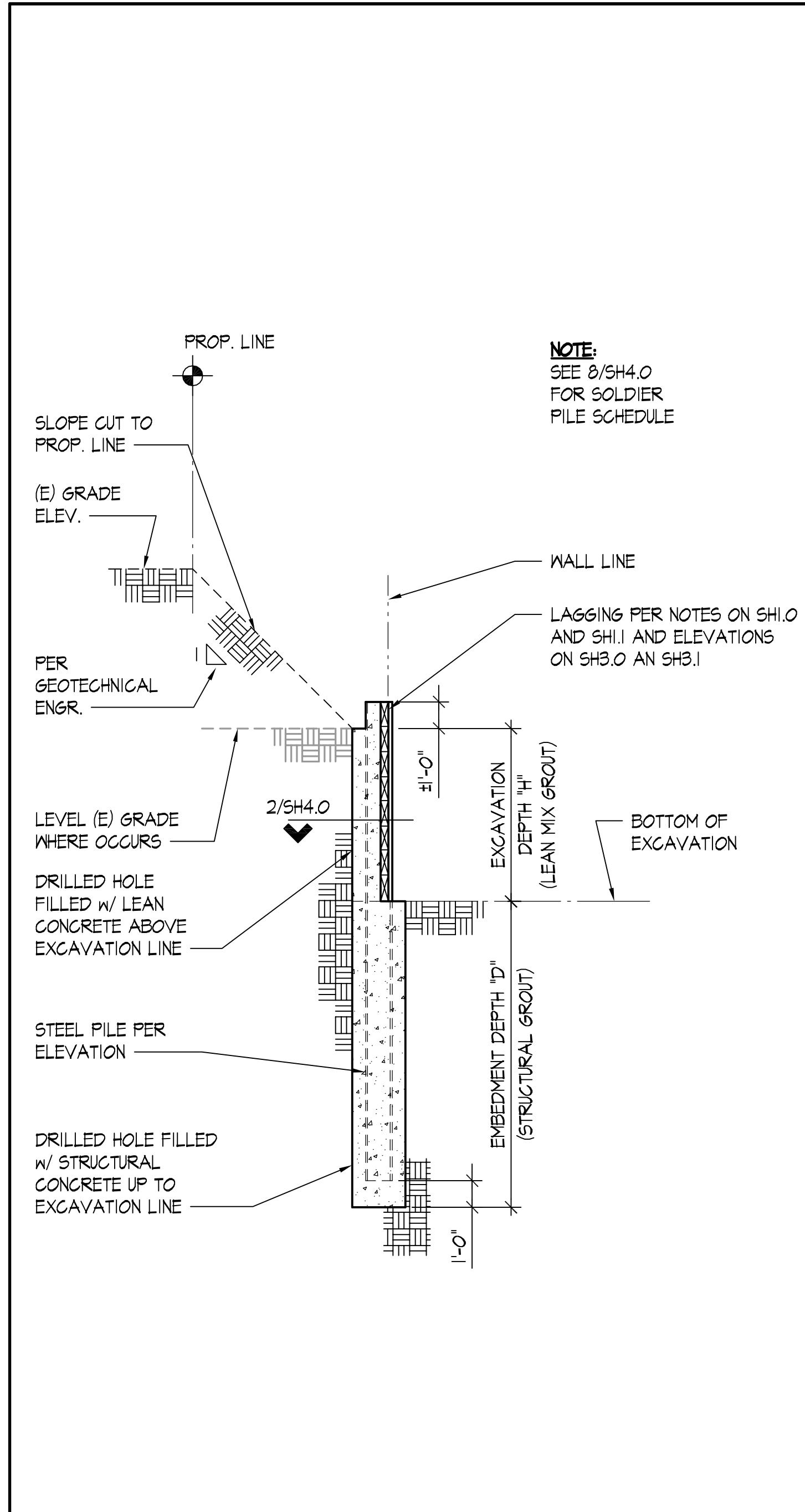
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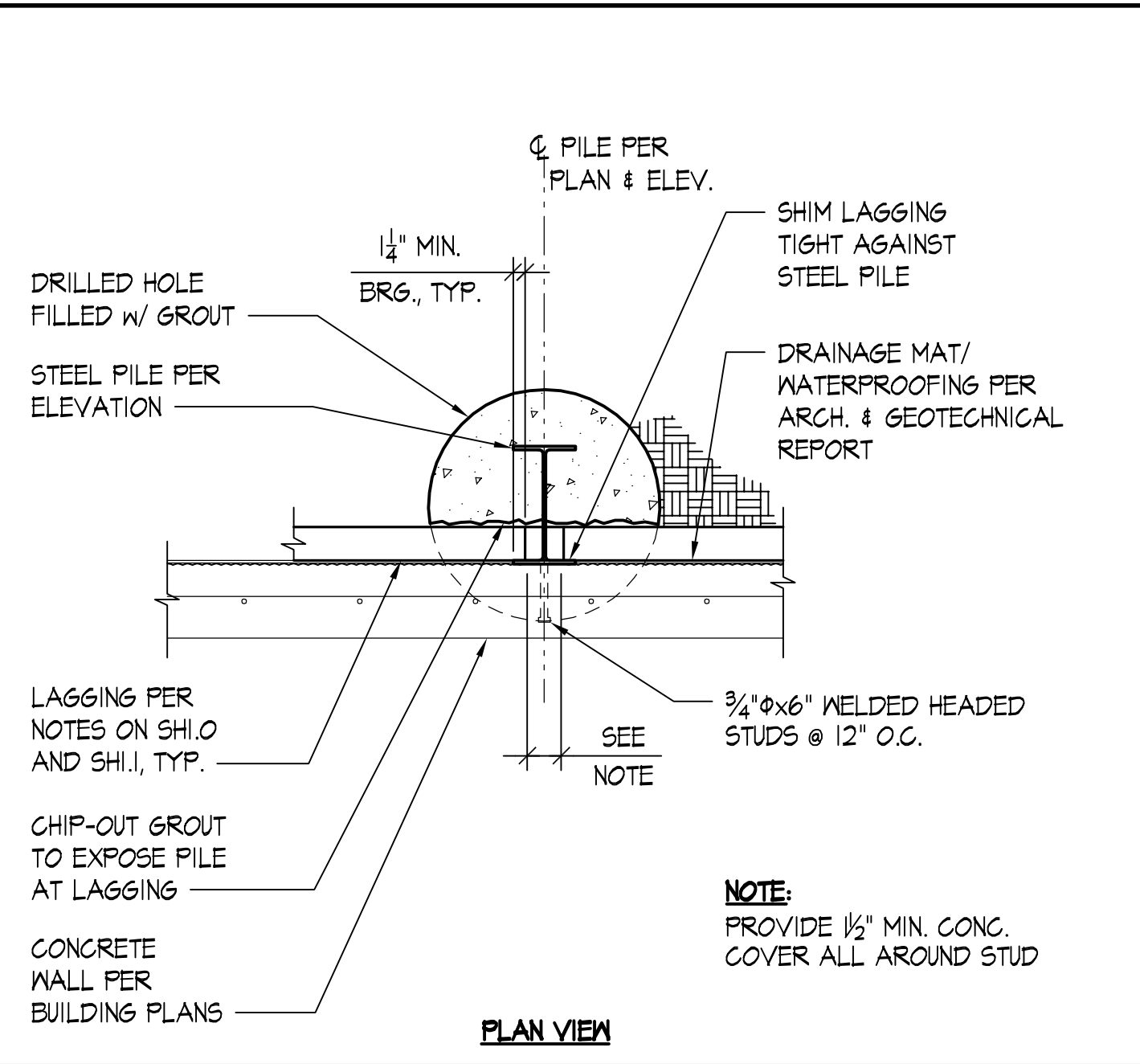
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SHORING ELEVATIONS

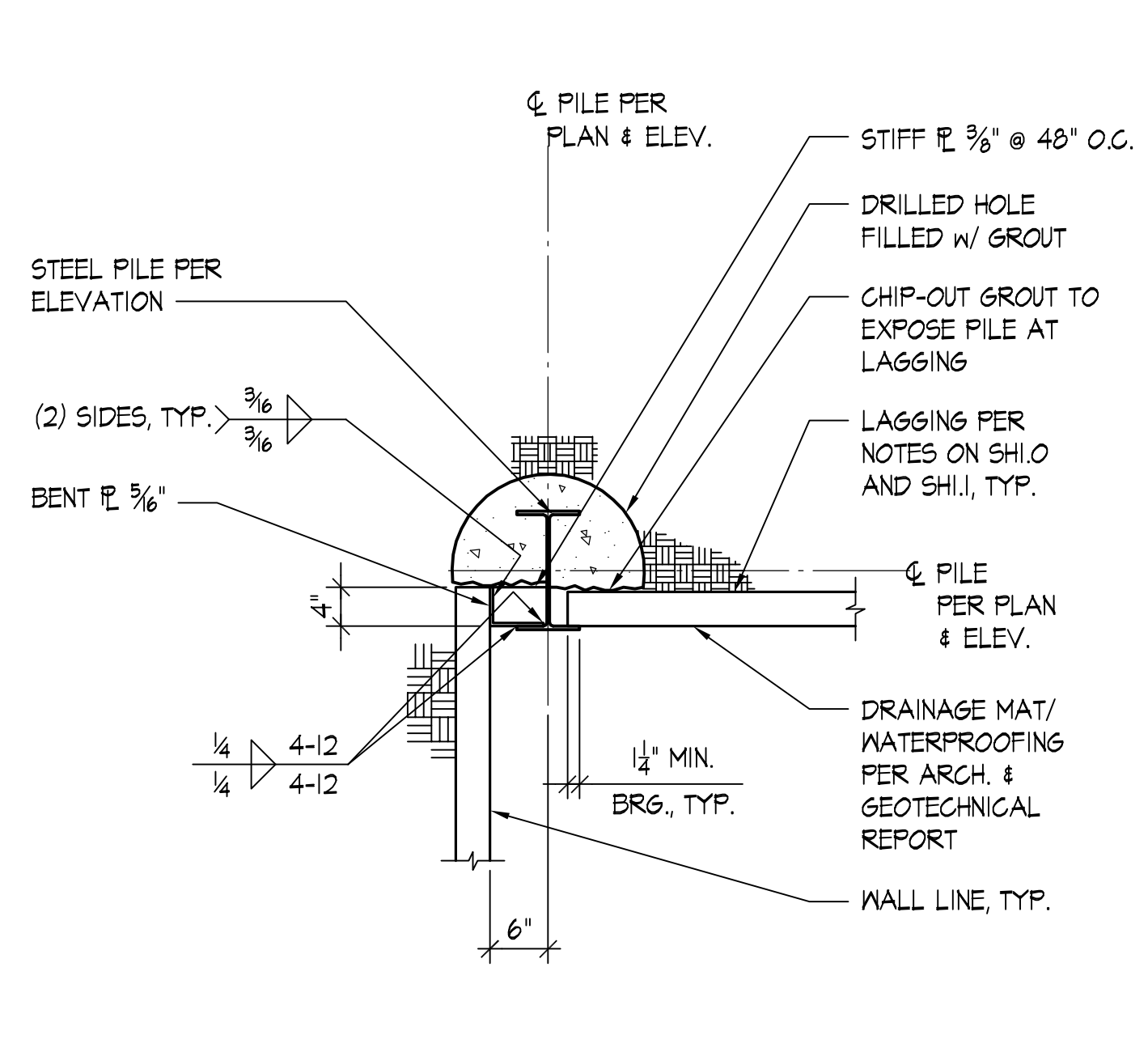
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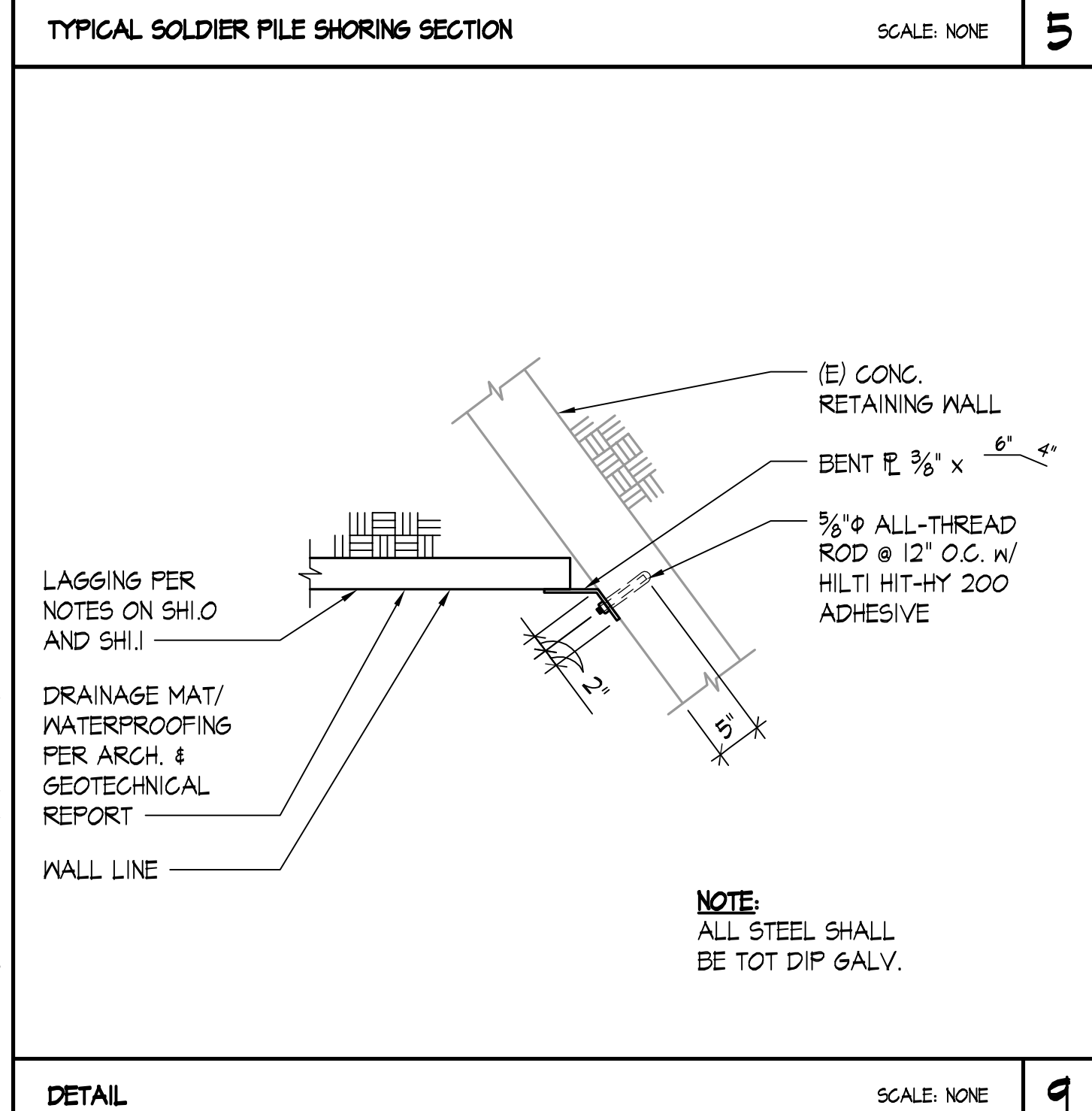
TYPICAL SOLDIER PILE SHORING SECTION SCALE: NONE **5**



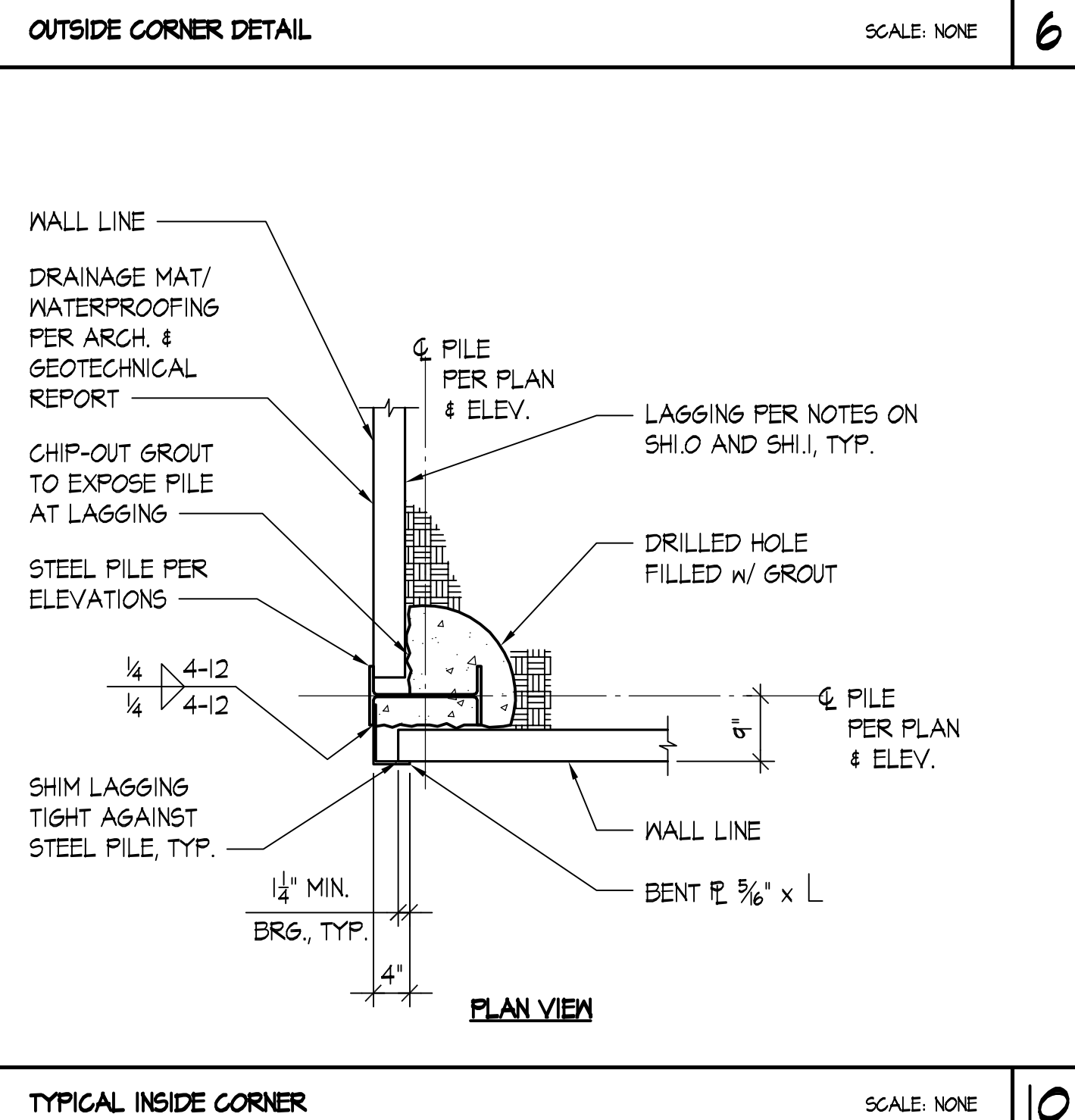
TYPICAL PERMANENT SOLDIER PILE SCALE: NONE **2**



OUTSIDE CORNER DETAIL SCALE: NONE **6**



DETAIL SCALE: NONE **9**

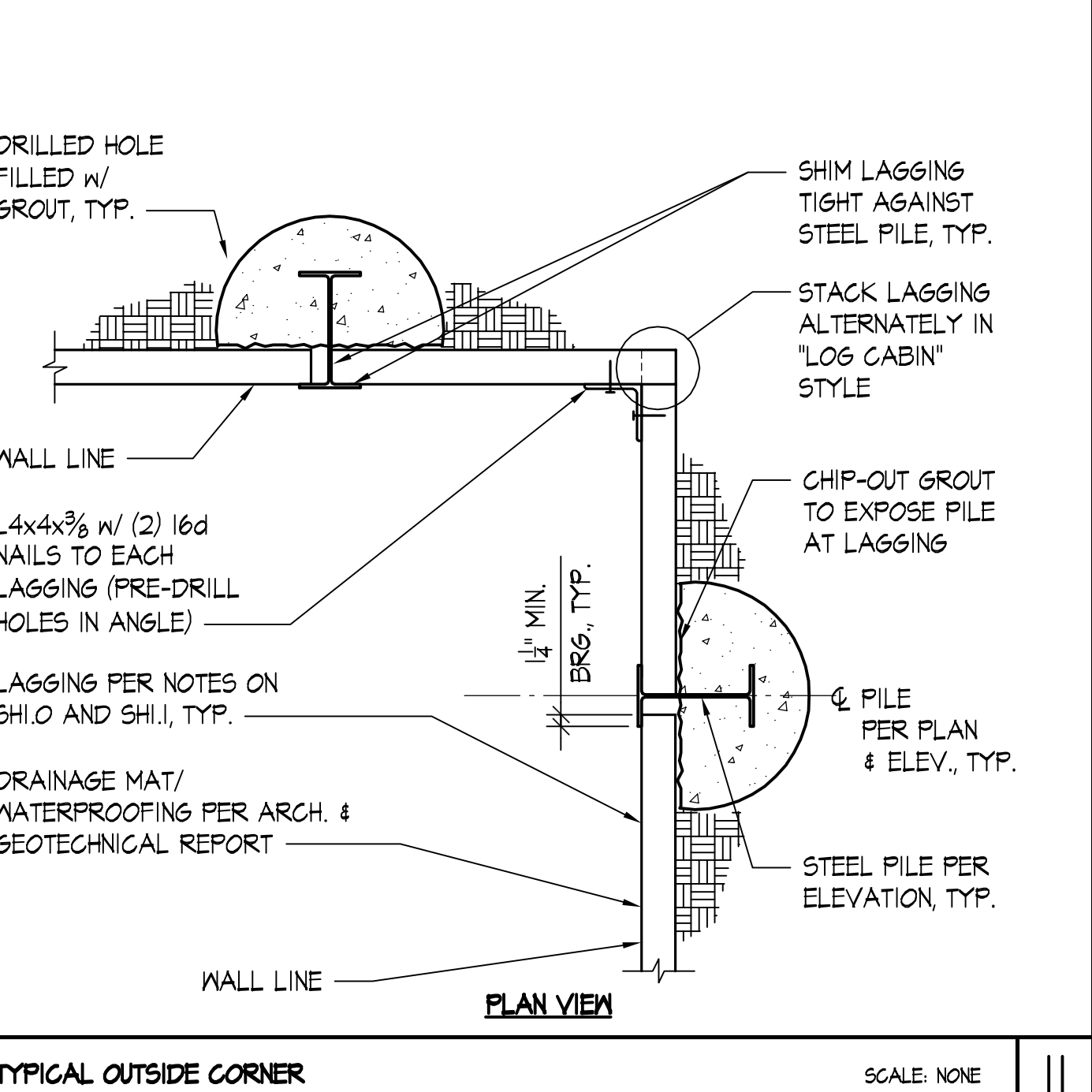


TYPICAL INSIDE CORNER SCALE: NONE **10**

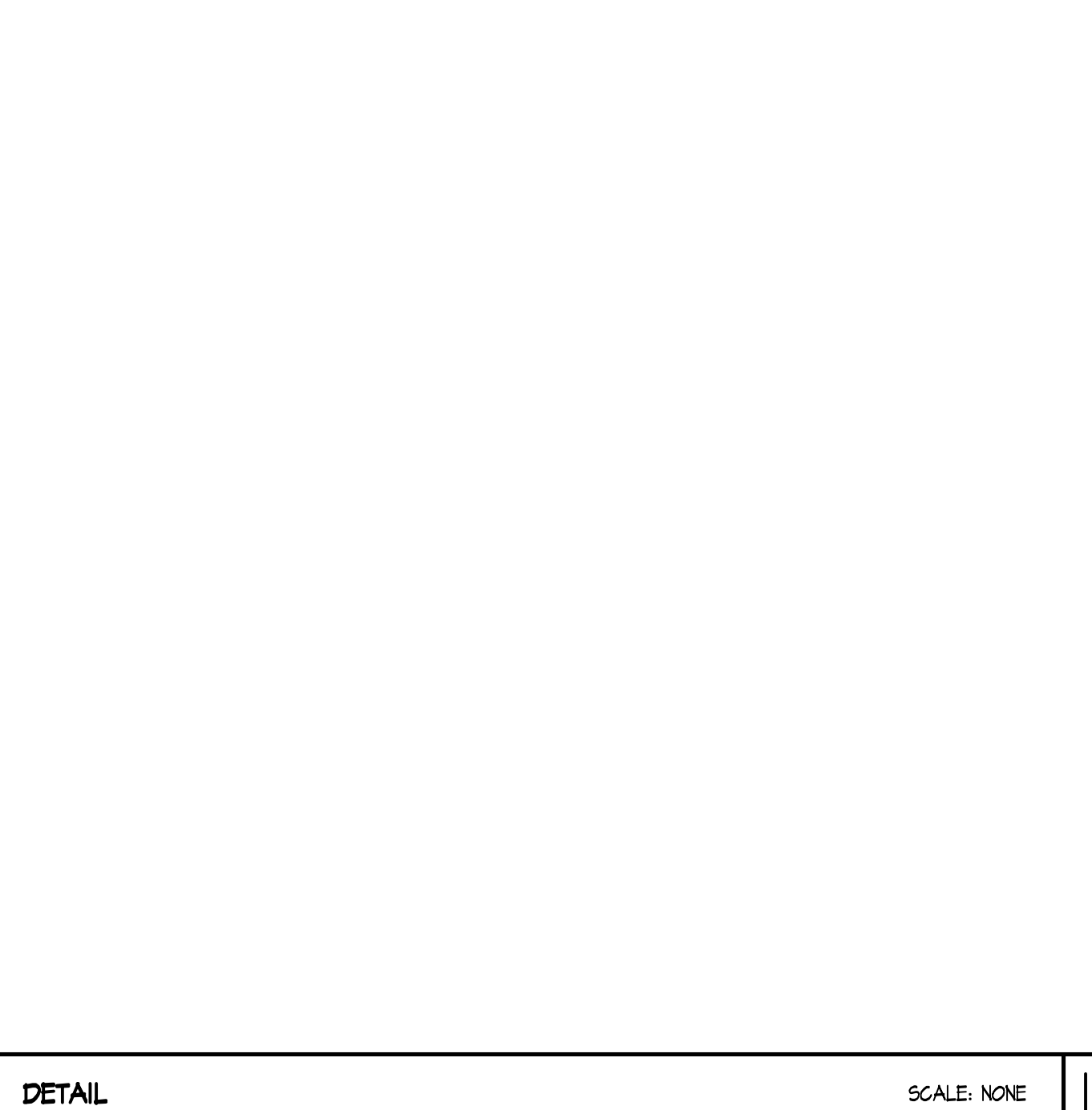
SOLDIER PILE SCHEDULE							
PILE MARK	PILE DIAMETER	SOLDIER PILE STEEL SECTION	BOTTOM EL. OF EXCAVATION	EMBEDMENT DEPTH 'D'	MAX. APPROX. HT. 'H'	STEEL SECTION LENGTH (ESTIMATED)	REMARKS
E1	24"	W14x26	25.0'	10'-0"	14'-8"	24'-8"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
E2 - E8	24"	W14x38	25.0'	10'-0"	14'-8"	24'-8"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
E9	24"	W14x43	25.0'	10'-0"	15'-6"	27'-0"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
E10	24"	W14x43	25.0'	10'-0"	17'-0"	29'-0"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
E11	24"	W14x48	25.0'	10'-0"	18'-6"	30'-0"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
E12	24"	W14x26	25.0'	10'-0"	20'-0"	30'-0"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
N1	24"	W12x14	25.0'	10'-0"	4'-0"	21'-0"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
N2	24"	W14x74	25.0'	15'-0"	12'-0"	30'-0"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
NE1	24"	W12x26	37.5'	14'-0"	6'-0"	23'-0"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
NE2	24"	W12x26	37.5'	14'-0"	9'-0"	24'-8"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
NE3	24"	W14x68	37.5'	16'-0"	11'-0"	27'-3"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
NE4	24"	W14x74	37.5'	16'-0"	11'-0"	27'-3"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
S1	24"	W14x43	25.0'	10'-0"	18'-0"	30'-0"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
S2	24"	W14x74	25.0'	15'-0"	12'-0"	31'-8"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
S3	24"	W14x68	25.0'	15'-0"	12'-0"	27'-3"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
S4	24"	W14x48	25.0'	17'-0"	10'-0"	28'-4"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE
S5	24"	W12x14	25.0'	10'-0"	6'-0"	19'-6"	PILE AND LAGGING EXTEND ABOVE FINISHED GRADE

NOTE: CONTRACTOR TO COORDINATE FINISH GRADE ELEVATION AND PILE HEIGHT W/ FIELD CONDITIONS

SOLDIER PILE SCHEDULE SCALE: NONE **8**



TYPICAL OUTSIDE CORNER SCALE: NONE **11**



DETAIL SCALE: NONE **12**



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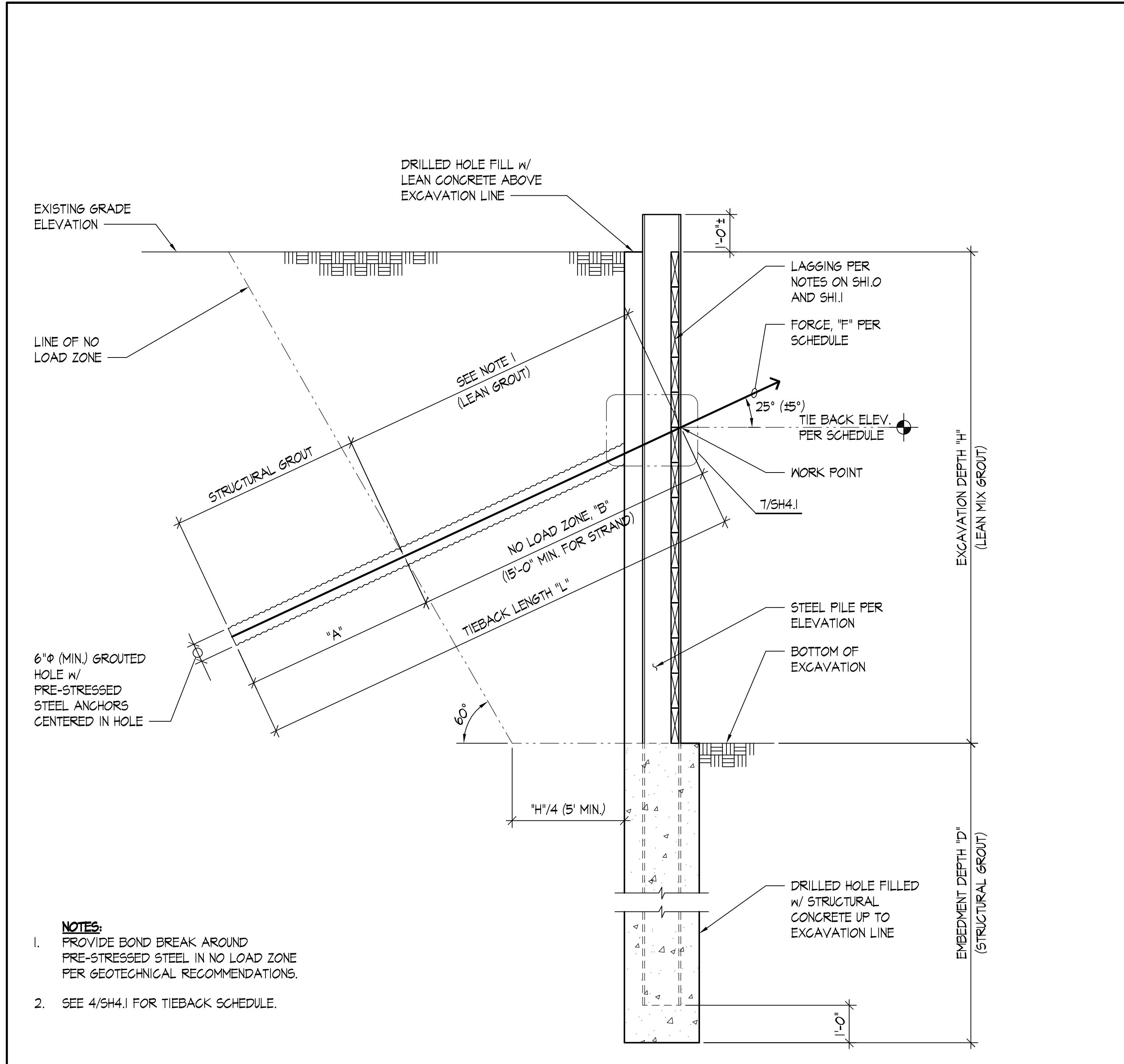


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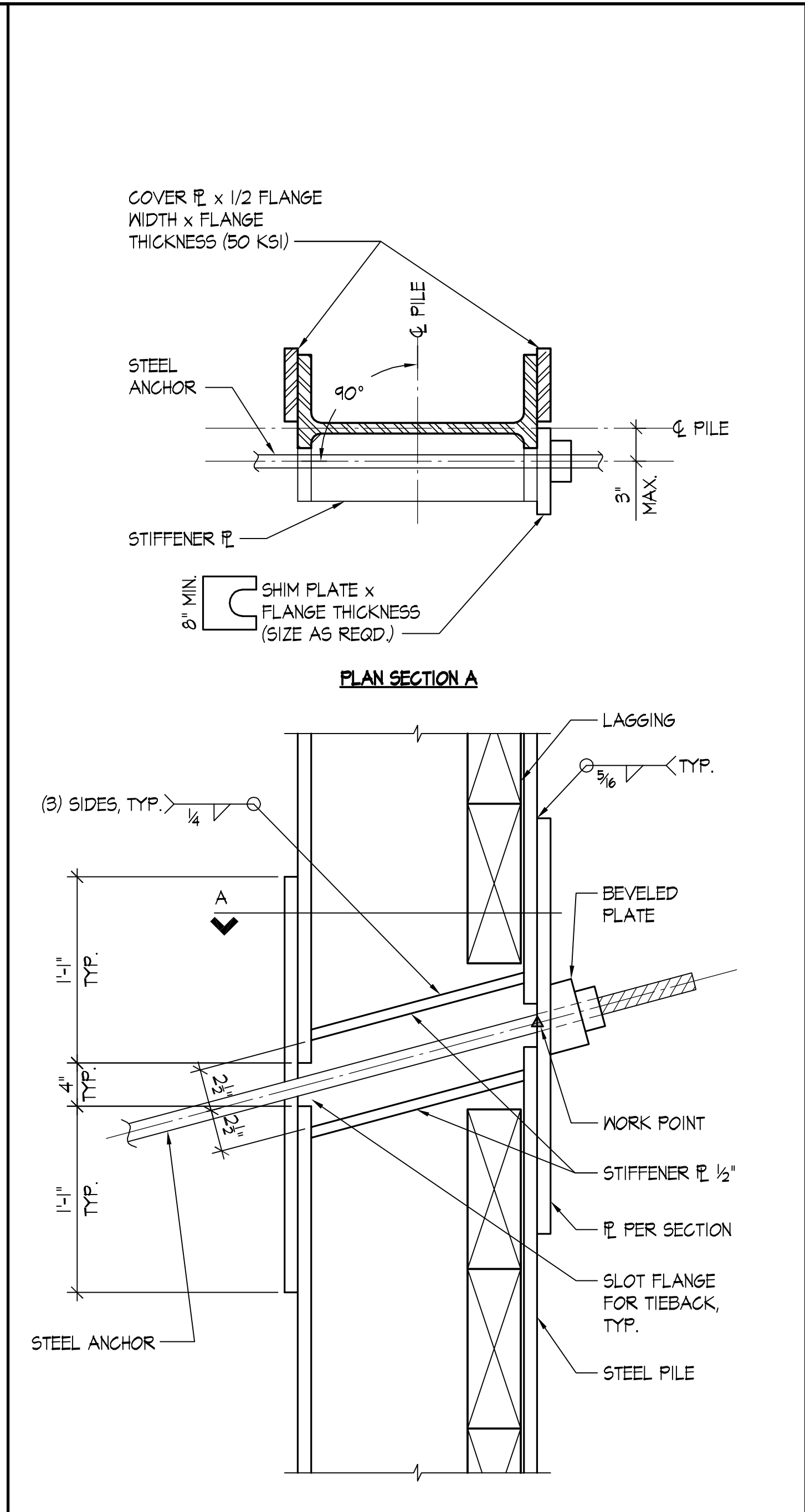
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TYPICAL SHORING SCHEDULE AND DETAILS



TYPICAL SOLDIER PILE SHORING SECTION - WITH TIEBACKS SCALE: NONE 6



TYPICAL TIEBACK CONNECTION AT PILE SCALE: NONE 7

TIEBACK SCHEDULE

TIEBACK MARK	ELEV.	F (k)	B (ft)	A (ft)	L (ft)	NOTES
T1	36.0'	23.0k	8.6'	4.2'	17.8'	PILE E1
T2	36.0'	45.8k	9.8'	10.3'	20.1'	PILE E2 - E8
T3	36.0'	51.3k	9.8'	20.5'	30.3'	PILE E9
T4	36.0'	63.8k	9.8'	25.5'	35.3'	PILE E10
T5	36.0'	79.4k	9.8'	31.8'	41.6'	PILE E11
T6	36.0'	40.2k	9.8'	19.3'	29.1'	PILE E12
T7	38.0'	34.5k	10.4'	15.8'	26.2'	PILE S1

NOTES:
 1. TIEBACK LENGTHS ARE BASED ON 6"Ø GROUTED HOLES WITH PRE-STRESSED STEEL ANCHORS. LENGTHS MAY BE REVISED BASED ON RECOMMENDATION OF GEOTECHNICAL ENGINEER.
 2. LENGTHS PROVIDED IN SCHEDULE ARE MINIMUMS.
 3. SEE ELEVATIONS FOR EXCAVATION AND PILE EMBEDMENT DEPTHS.

TIEBACK SCHEDULE SCALE: NONE 4



DETAIL SCALE: NONE 9



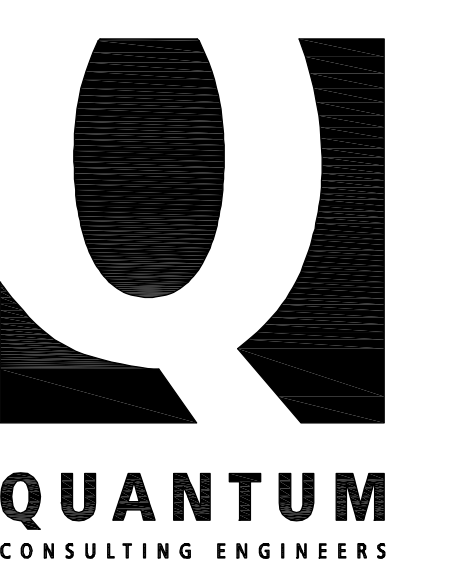
DETAIL SCALE: NONE 10



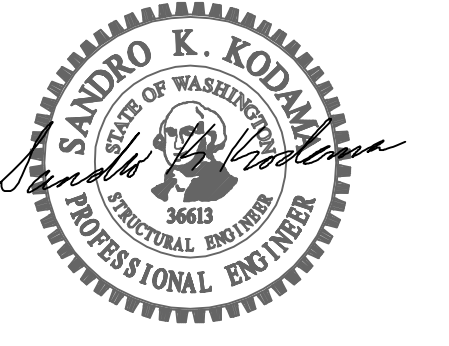
DETAIL SCALE: NONE 11



DETAIL SCALE: NONE 12



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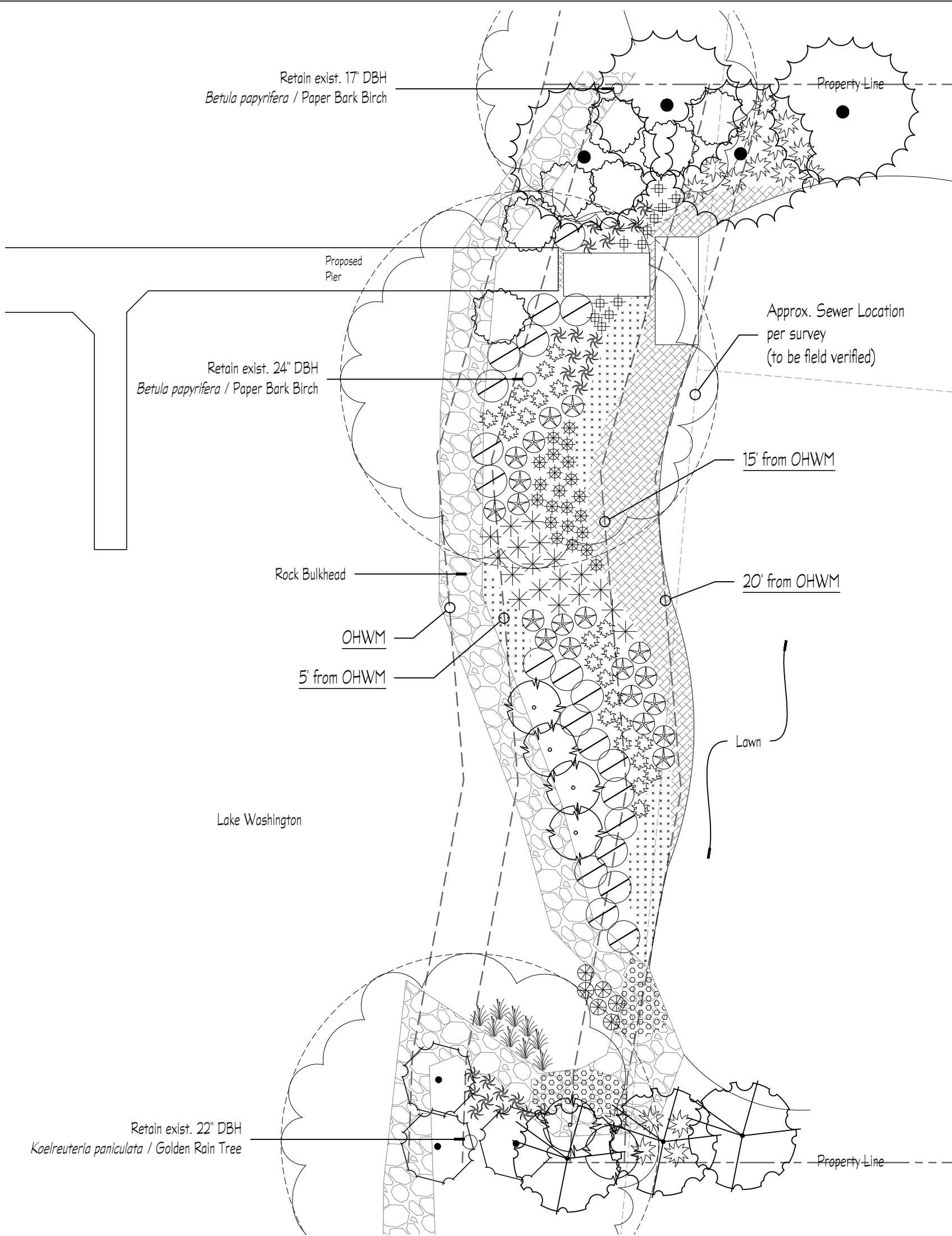


DESIGN	SKK
DRAWN	SC
CHECKED	SKK
DATE	1/8/2019
REVISIONS	
PERMIT SET	1/8/2019

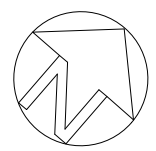
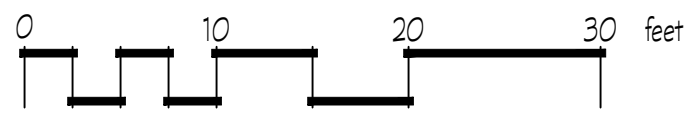
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LUNDIN RESIDENCE
 4041 WEST MERCER WAY
 MERCER ISLAND, WA 98040

PROJECT NO. 18689.01
TYPICAL SHORING SCHEDULE AND DETAILS



LEGEND: new plants	QTY.	SIZE/NOTES
<i>Amelanchier alnifolia</i> / Western Service Berry	3	6' - 7' height
<i>Pinus contorta</i> var 'Contorta' / Shore Pine	3	5' - 6' ht.
<i>Ribes sanguineum</i> / Red-Flowering Currant	3	3 gallon container
<i>Rubus parviflorus</i> / Thimbleberry	6	3 gal.
<i>Symphoricarpos albus</i> / Snowberry	21	3 gal.
<i>Vaccinium ovatum</i> / Evergreen Huckleberry	8	3 gal.
<i>Camassia quamash</i> / Camas	20	1 gal.
<i>Deschampsia cespitosa</i> / Tufted Hair Grass	18	1 gal.
<i>Dicentra formosa</i> / Bleeding Heart	12	1 gal.
<i>Festuca idahoensis</i> / Idaho Fescue	22	1 gal.
<i>Iris tenax</i> / Oregon Iris	24	1 gal.
<i>Juncus ensifolius</i> / Dagger-leaf Rush	6	1 gal.
<i>Mahonia nervosa</i> / Small Oregon Grape	23	1 gal.
<i>Polystichum munitum</i> / Sword Fern	16	1 gal.
<i>Scirpus microcarpus</i> / Small-fruited Bulrush	9	1 gal.
<i>Fragaria chiloensis</i> / Beach Strawberry	135	4" pot, 16" on center
<i>Sisyrrinchium idahoense</i> / Idaho Blue-eyed-grass	63	4" pot, 16" on center
<i>Sedum & Lewisia</i> / Native Stonecrop and Lewisia mix	45	4" pot, 12" on center



PER_DWG	
SCALE:	
REVISED:	
REVISOR:	
DATE:	
DRAWN BY:	ML
CHECKED BY:	JB
DATE:	10-26-2018

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Preliminary Design.
 Not For Construction

LUNDIN RESIDENCE
Landscape Plan: Shoreline Planting
 4041 West Mercer Way, Mercer Island, WA 98040

SHEET
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