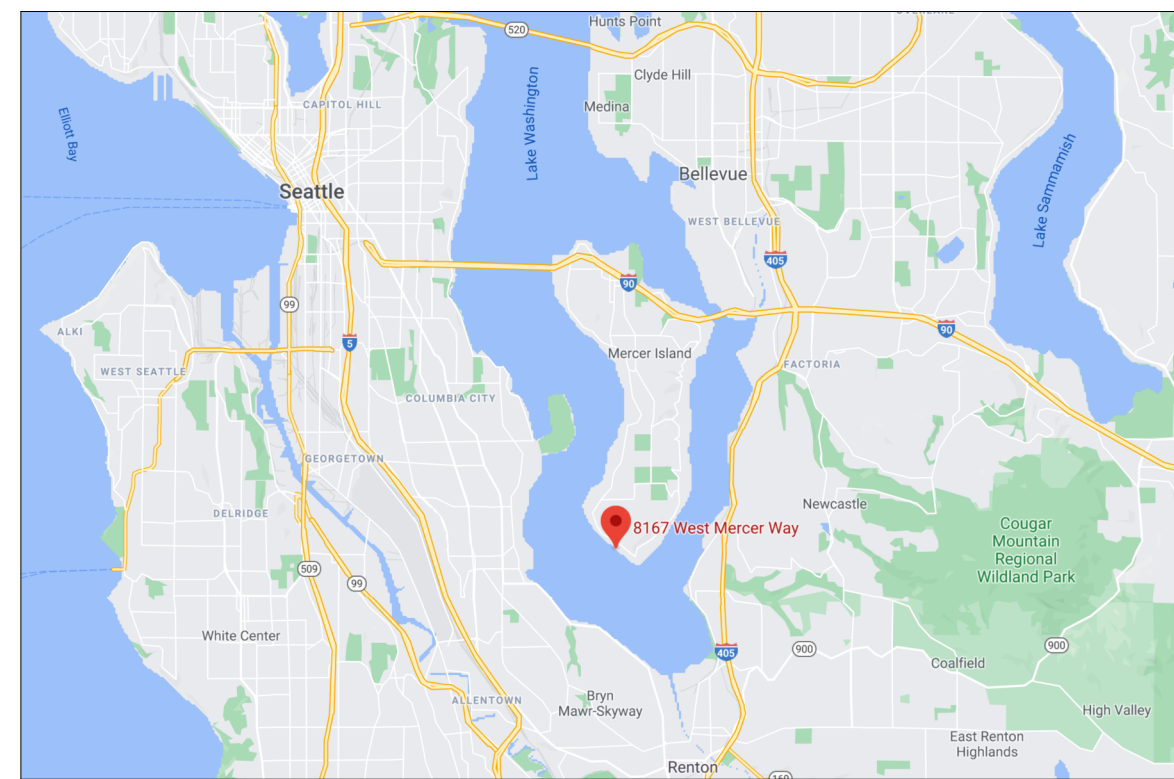
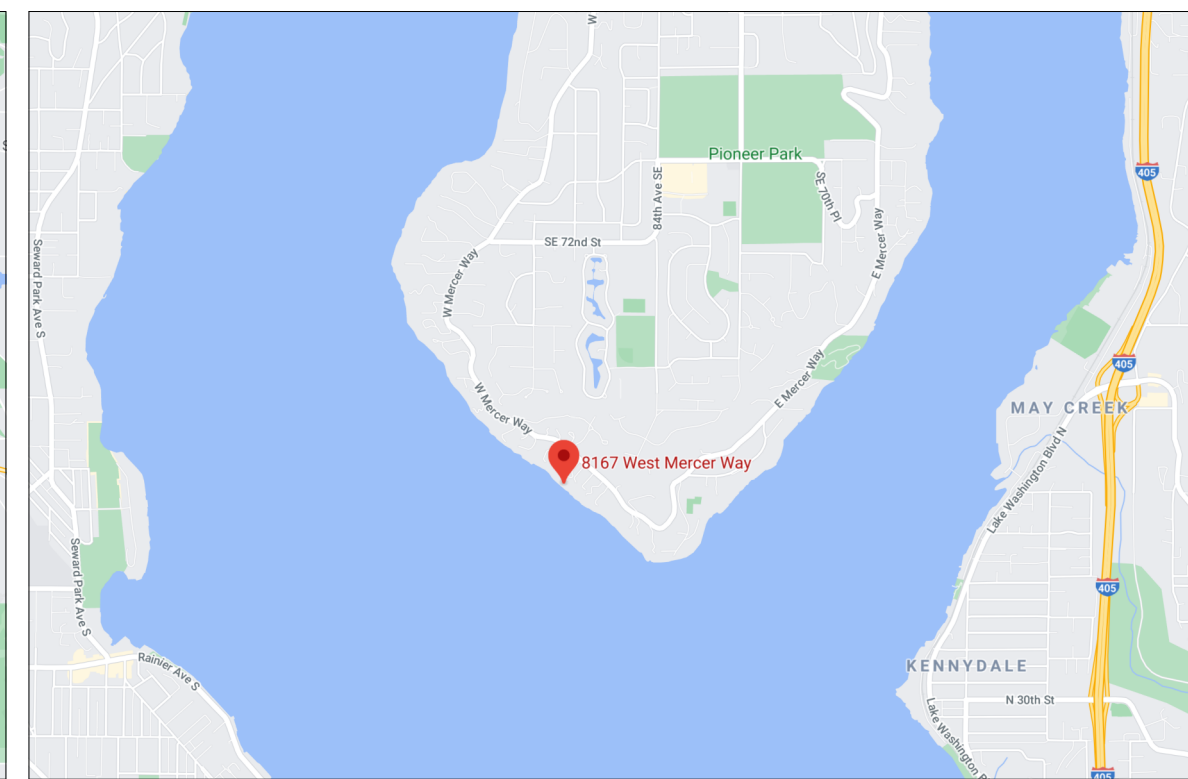


VICINITY PLAN



LOCATION PLAN



ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ALT	ALTERNATE
ARCH	ARCHITECT, ARCHITECTURAL
BLW	BELOW
BSMT	BASEMENT
BTW	BETWEEN
BLD	BUILDING
CAB	CABINET
CALC	CALCULATION
CLG	CEILING
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DW	DISHWASHER
DBL	DOUBLE
EA	EACH
ELEC	ELECTRIC, ELECTRICIAN
ELEV	ELEVATION
ENGR	ENGINEER
EQUIV	EQUIVALENT
EXIST OR (E)	EXISTING
EXT	EXTERIOR
FF	FINISH FLOOR
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
HDR	HEADER
HT	HEIGHT
HORIZ	HORIZONTAL
INSUL	INSULATION
INT	INTERIOR
LOC	LOCATE, LOCATION
MAX	MAXIMUM
MFR	MANUFACTURER
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
NTS	NOT TO SCALE
O.C.	ON CENTER
PLY	PLYWOOD
PRELIM	PRELIMINARY
PT	PRESSURE-TREATED
PL	PROPERTY LINE
REFR	REFRIGERATOR
REINF	REINFORCE, REINFORCING
REQD	REQUIRED
SCHED	SCHEDULE
SW	SHEARWALL
SIM	SIMILAR
SF	SQUARE FOOT
SPECS	SPECIFICATIONS
SSTL	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURE, STRUCTURAL
TEMP	TEMPORARY
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
VERT	VERTICAL
WP	WATERPROOF, WEATHERPROOF
WNDW	WINDOW
W	WITH
W/O	WITHOUT
WD	WOOD

SYMBOLS KEY

GRID LINES		0
ROOM REFERENCE		ROOM NAME ROOM NUMBER
DOOR REFERENCE		ROOM NUMBER DOOR NUMBER
WINDOW REFERENCE		ROOM NUMBER WINDOW NUMBER
EXTERIOR ELEVATIONS		DRAWING NUMBER SHEET NUMBER
WALL SECTION		DRAWING NUMBER SHEET NUMBER
SECTION DETAIL		DRAWING NUMBER SHEET NUMBER
AREA DETAIL		DRAWING NUMBER SHEET NUMBER
INTERIOR ELEVATION		DRAWING NUMBER SHEET NUMBER
ELEVATION DATUM		LOCATION ELEVATION
FINISH MATERIAL		FINISH TYPE: SEE FINISH SCHEDULE FINISH NUMBER
REVISION BUG		NOTE: ONLY MOST RECENT REVISION SHOWN CLOUDED. FOR PREVIOUS REVISIONS DELTAS REMAIN. DATE OF REVISIONS INDICATED AT RIGHT MARGINS.
ASSEMBLY TYPE		W4a R: ROOF TYPE W: WALL TYPE F: FLOOR TYPE SEE ASSEMBLIES FOR MORE INFO
EXHAUST FAN		
SMOKE DETECTOR		
SMOKE/CARBON MONOXIDE DETECTOR		
CENTERLINE		

GENERAL NOTES

ALL WORK SHALL BE IN COMPLIANCE WITH THE 2009 INTERNATIONAL RESIDENTIAL CODE AS ADOPTED AND MODIFIED BY THE JURISDICTIONAL LAND USE CODE, AND ALL OTHER LAWS, CODES, ORDINANCES AND REGULATIONS OF THE COUNTY, STATE, AND FEDERAL JURISDICTIONS. (LATEST EDITION AND AMENDMENTS)

ALL UNDERGROUND UTILITIES MUST BE VERIFIED AS TO EXACT LOCATIONS SO AS NO INTERFERENCE BY DISRUPTION WILL BE CAUSED. GENERAL CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITIES BY THE METHODS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND DPO REPRESENTATIVE AT THE PRE-CONSTRUCTION SITE MEETING. DAMAGE THAT MAY BE CAUSED BY GENERAL CONTRACTOR OR SUBCONTRACTOR TO ANY OF THE ABOVE MENTIONED SHALL BE REPAIRED BY HIM AND LEFT IN AS GOOD A CONDITION AS EXISTED PRIOR TO DAMAGING.

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND JOB CONDITIONS RELATED TO THIS WORK. ALL DIMENSIONS SHALL BE CONSIDERED "NOMINAL" UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. DIMENSIONS ON LARGE SCALE DRAWINGS OR DETAILS WILL PREVAIL OVER SMALLER SCALED DRAWINGS. WRITTEN DIMENSIONS ARE DRAWN TO THE FACE OF STUD, U.N.O. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT. PROVIDE ALL BUCKOUTS, BLOCKING, AND JACKS AS REQUIRED BY THE DRAWINGS AND OTHER TRADES. ANY DISCREPANCY IN DIMENSIONS SHALL BE REPORTED IN WRITING TO THE PROJECT MANAGER/DESIGNER FOR CLARIFICATION, OR APPROVAL OF MODIFICATION BEFORE COMMENCING WORK. THE RESPONSIBILITY TO THE PROJECT MANAGER/DESIGNER, SHALL REST WITH THE CONTRACTOR OR ANY OTHER PERSON APPROVING SUCH A CHANGE.

ALL WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF CERTIFICATE OF OCCUPANCY UNLESS SPECIFIED FOR A LONGER PERIOD OF TIME ON SPECIFIED ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING HIS OWN DEFECTIVE WORK AS WELL AS PAY ALL COSTS INCIDENTAL THERETO INCLUDING DAMAGE TO OTHER WORK, FURNISHINGS OR EQUIPMENT.

ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO THE OWNER'S WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL BE SO WRITTEN THAT SUCH GUARANTEE OR WARRANTIES SHALL INSURE TO THE BENEFIT OF OWNER.

INSURANCE: PRIOR TO THE COMMENCEMENT OF WORK THE GENERAL CONTRACTOR SHALL DELIVER TO THE OWNER CERTIFICATES OF INSURANCE FOR BOTH COMPREHENSIVE GENERAL LIABILITY AND WORKMAN'S COMPENSATION INCLUDING THE TOTAL AMOUNT OF COVERAGE AND CONDITIONS STIPULATED AND AGREED BY BOTH PARTIES.

THE OWNER SHALL BE RESPONSIBLE FOR PAYING FOR THE BUILDING PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED OR NECESSARY FOR THE COMPLETION OF THE WORK FROM THE RESPECTIVE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE GOVERNING AGENCIES AS REQUIRED FOR SITE INSPECTIONS.

ALL TRADES SHALL REFER TO THE ARCHITECTURAL DRAWINGS REGARDING LOCATIONS OF WORK TO BE INSTALLED.

UNLESS OTHERWISE NOTED, PROVIDE ALL MISCELLANEOUS FASTENERS, HARDWARE AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. EVEN THOUGH SUCH ITEMS MAY NOT HAVE BEEN SPECIFICALLY MENTIONED IN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT OF ANY REVISIONS OR ADDITIONAL INFORMATION OBTAINED FROM THE MANUFACTURER OF SPECIFIED MATERIALS OR EQUIPMENT WHICH MAY AFFECT THE CONTRACT TIME, COST OR QUALITY OF WORK.

GENERAL CONDITIONS: THE GENERAL CONTRACTOR, ALL SUB-CONTRACTORS AND ALL MAJOR SUPPLIERS SHALL SUBMIT TO THE OWNER WITHIN 30 DAYS AFTER COMPLETION ALL "RELEASE OF LIENS" FOR ALL WORK PERFORMED PRIOR TO FINAL PAYMENT.

PARTIAL LIEN WAIVERS TO BE SUBMITTED WITH MONTHLY REQUESTION.

ALL MANUFACTURERS AND/OR SUPPLIERS SHALL SUBMIT SHOP DRAWINGS AND/OR MATERIAL SAMPLES TO THE DESIGNER/OWNER FOR APPROVAL PRIOR TO FABRICATION.

ALL OF THE GENERAL CONTRACTOR'S EQUIPMENT, SCAFFOLDING HOISTS, ETC., SHALL BE AVAILABLE TO THE OWNER/DESIGNER AND THEIR STAFF FOR INSPECTION OF ANY AND ALL WORK DURING NORMAL WORKING HOURS.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DELIVERY POINTS, HOISTS LOCATIONS, ACCESS TO AND FROM THE SITE OF THE BUILDING AND UTILITY SERVICES. BID TO INCLUDE ALL NECESSARY AND REQUIRED PERMITS, LICENSES, FEES, BONDS AND INSURANCE - EVIDENCE OF WHICH MUST BE SUBMITTED TO OWNER/DESIGNER PRIOR TO ANY CONSTRUCTION.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBCONTRACTORS WORKING AT JOB SITE AND FOR ALL COORDINATION OF WORK.

THE MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ALL EQUIPMENT WITH THE OTHER TRADES. THESE CONTRACTORS SHALL BE RESPONSIBLE FOR FINAL HOOK-UP OF ALL EQUIPMENT NOT FURNISHED BY THEM BUT REQUIRING THE SAME FOR FINAL COMPLETION.

GENERAL CONTRACTOR TO BE RESPONSIBLE FOR SECURITY OF ALL MATERIALS AT JOB SITE UNTIL FINAL ACCEPTANCE OF WORK BY OWNER.

ANY SUBCONTRACTOR CUTTING INTO WORK ALREADY COMPLETED, CUTTING CHASES AND TRENCHES FOR THE INTRODUCTION OF HIS WORK AND EQUIPMENT IN THE BUILDING SHALL DO OR PAY FOR ALL BACK FILLING, REPAIRATION OF WALLS, FLOOR, ETC., DAMAGE BY SUCH A COMPANY. ALL REPAIRS SHALL MATCH EXISTING SURFACES.

CONSTRUCTION SPECIFICATIONS: NO SUBSTITUTIONS ARE ALLOWED FOR MATERIALS WHERE SPECIFIC MANUFACTURERS ARE INDICATED, UNLESS APPROVED BY THE OWNER/ARCHITECT. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN WRITING PRIOR TO ORDERING MATERIALS OR COMMENCING WORK. SUCH REQUESTS SHALL INCLUDE THE DATE, SCOPE OF WORK, ANY ADDITIONAL COSTS TO THE OWNER, AND ANY ANTICIPATED DELAYS CAUSED BY SUCH CHANGES.

NO EXTRA WORK OR CHANGE SHALL BE MADE UNLESS A WRITTEN CHANGE ORDER IS SUBMITTED AND SIGNED BY THE OWNER AND ARCHITECT. THE ORDER SHALL STATE THAT THE OWNER HAS AUTHORIZED THE EXTRA WORK OR CHANGE, AND NO CLAIM FOR AN ADDITIONAL SUM SHALL BE VALID UNLESS SO OFFERED AS DESCRIBED ABOVE.

ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

WOOD SPECIFICATIONS TO CONFORM TO OUTLINE SPECIFICATIONS, STRUCTURAL PLANS, NOTES, AND GENERAL CONDITIONS.

CAULKING AND SEALANTS: INSTALLED SHALL BE GUARANTEED WATERTIGHT. EXTERIOR METAL WORK, INCLUDING WINDOWS AND DOOR FRAMES AND ALL JUNCTIONS BETWEEN MASONRY, CONCRETE AND METAL SHALL BE SEALED WITH NEOPRENE OR POLYURETHANE FILLER AND APPROVED SEALANT COMPOUNDS.

PROVIDE GALVANIC INSULATION BETWEEN ALL DISSIMILAR METALS.

PROVIDE WATERPROOFING MEMBRANE OVER PROTECTIVE BOARD AT ALL WALLS EXPOSED TO EARTH.

ALL PIPING AND CONDUIT UNDER SLAB SHALL BE A MINIMUM OF 2'-0" CLEAR OF UNDERSIDE OF FOOTING.

ALL FINAL SURFACE GRADING SHALL BE COMPLETED TO FACILITATE POSITIVE DRAINAGE AWAY FROM THE BUILDING UNLESS NOTED OTHERWISE.

PROVIDE AND INSTALL INSULATION AT EXTERIOR WALLS, ROOF, FLOOR LOCATIONS AS SHOWN, SPECIFIED AND IN ACCORDANCE WITH SEATTLE ENERGY CODE.

WATER PIPES TO BE INSULATED IN ALL UNHEATED AREAS.

INSULATE ALL ROUGH-IN PLUMBING IN WALLS, FLOORS, AND CEILINGS FOR SOUND TRANSMISSION.

GRAPHIC KEY

(NOT TO SCALE)

	GLASS		BATT INSULATION
	CONCRETE		RIGID INSULATION
	STEEL		PLYWOOD
	EARTH		FINISH WOOD
	GRAVEL		STUCCO
	WATER		SPRAY FOAM INSULATION
	BRICK		GYPSUM WALLBOARD
	ALUMINUM		

GENERAL INFORMATION

PROJECT ADDRESS	8163 W MERCER WAY MERCER ISLAND, WA 98040
PROJECT NUMBER	2011-147
ASSESSOR'S PARCEL #	4139300305
LEGAL DESCRIPTION	(PER QUIT CLAIM DEED RECORDING #9608220105) LOT B OF SHORT PLAT NO. M 79-05-14, ACCORDING TO THE SHORT PLAT SURVEY RECORDED UNDER KING COUNTY RECORDING NO. 790806-0708; TOGETHER WITH EASEMENT FOR INGRESS, EGRESS AND UTILITIES OVER AND ACROSS LOT A OF SAID SHORT PLAT AS DESCRIBED THEREIN; SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.
PROJECT DESCRIPTION	REMODEL OF EXISTING SINGLE FAMILY HOUSE
ZONE	SF 5000
BUILDING TYPE	SINGLE FAMILY RESIDENCE
OWNER	JOHN & HEATHER KAHAN 8163 WEST MERCER WAY MERCER ISLAND, WA 98040
ARCHITECT	COLIN BRANDT BRANDT DESIGN GROUP 66 BELL ST., UNIT 1 SEATTLE, WA 98121 206.239.0850 colin@brandtdesigninc.com
OWNER'S AGENT/CONTACT	BREE MEDLEY BRANDT DESIGN GROUP 66 BELL ST., UNIT 1 SEATTLE, WA 98121 206.239.0850 bree@brandtdesigninc.com
GENERAL CONTRACTOR	JOHN KAELIN K2 CONSTRUCTION 19601 SE 29th ST SAMMAMISH, WA 98075 206.730.8878 k2quality@comcast.net
STRUCTURAL ENGINEER	BRETT MOZDEN SWENSON SAY FAGET 2124 THIRD AVENUE, SUITE 100 SEATTLE, WA 98121 206.443.6212 bmozden@sslengineers.com
CIVIL ENGINEER	LAURIE PFARR LPO ENGINEERING 1932 FIRST AVE., SUITE 201 SEATTLE, WA 98101 206.725.1211 louiepf@lpengineering.com

PROJECT DATA

EXISTING LOT AREA SUMMARY	
GROSS LOT AREA	17,955 SF
ACCESS EASEMENTS	2,721 SF
NET LOT AREA	15,234 SF
LOT SLOPE	90.6' / 301.2' = 30.08%
TREE REMOVAL	
(E) TREES TO BE REMOVED	1
(N) TREES TO BE PLANTED AS REPLACEMENT	2
LOT COVERAGE	
BUILDING ROOF, GARAGE, COVERED DECK	2,794 SF
(N) DRIVEWAY/PARKING	896 SF
(E) DRIVEWAY	537 SF
(E) TOTAL LOT COVERAGE	4,227 SF = 27.7% OF NET LOT AREA
ALLOWABLE LOT COVERAGE = 30%	15,234 X 0.3 = 4,570.2 SF
HARDSCAPE	
(E) SITE WALLS	68 SF
(N) SITE WALLS	46 SF
(N) STAIRS	30 SF
TOTAL	139 SF
PERCENTAGE	139/15,234 = 0.9%

PROPOSED BUILDING AREA SUMMARY (GFA):

PROPOSED LOWER LEVEL	1,635 SF
PROPOSED LOWER LEVEL BELOW GRADE (EXCLUDED)	1,187 SF
PROPOSED MAIN LEVEL W/ GARAGE	2,320 SF
PROPOSED UPPER LEVEL (EXCLUDES STAIRS)	2,205 SF
TOTAL PROPOSED BUILDING AREA (GFA):	4,973 SF
PROPOSED GROSS FLOOR AREA:	4,973 / 17,955 = 27.7%
40% ALLOWABLE GFA	17,995 X 0.40 = 7,198 SF

CODE ANALYSIS

SETBACKS	VARIABLE
SIDE YARD	MINIMUM 7'-6"
FRONT YARD	20'
REAR YARD	25'
OCCUPANCY SUMMARY	
PROPOSED TYPE	R-15
OCCUPANT LOAD -	SINGLE FAMILY
ENERGY CODE SUMMARY	
CLIMATE ZONE 1 (TABLE G-1)	
PRESCRIPTIVE OPTION III (EFFICIENT ENVELOPE OPTION 1A)	
UNLIMITED GLAZING	
GLAZING U-FACTOR (VERTICAL):	30
GLAZING U-FACTOR (OVERHEAD):	50
DOOR U-FACTOR:	20
CEILING:	R-49
VAULTED CEILING:	R-38
WALL ABOVE GRADE:	R-21
WALL BELOW GRADE (INT.):	R-21 (INT.) OR R-10 (EXT.)
WALL BELOW GRADE (EXT.):	R-10

SLAB ON GRADE @ BASEMENT

HEATING	
INSTALLED PER INTERNATIONAL RESIDENTIAL CODE. WORK TO BE COMPLETED UNDER A SEPARATE PERMIT.	
VENTILATION	
PER 2015 WA STATE MECHANICAL CODE/IRC, FANS ON TIMERS, PER PLANS. VOLUME OF REQUIRED OUTDOOR VENTILATION AIR TO BE PROVIDED BASED ON TABLE 403.8.1 / 403.8.5.1	
* PLUMBING, MECHANICAL, ELECTRICAL WORK TO BE PERMITTED SEPARATELY.	
SEE SHEET A001 FOR VENTILATION & ENERGY CALCULATIONS.	

SHEET INDEX

DISCIPLINE	SHEET NUMBER	SHEET NAME
ARCHITECTURAL	A000	COVERSHEET
	A001	WA STATE ENERGY CODE / VENTILATION CALC
	A002	SURVEY
	A100	SITE PLAN
	A101	BUILDING PAD PLAN
	A102	EXCAVATION PLAN
	A103	EXCAVATION SECTIONS
	A105	CRITICAL AREA & TREE PLAN
CIVIL	C1.0	TESC & DEMOLITION
	C1.1	TESC DETAILS & NOTES
	C2.0	GRADING & DRAINAGE
	C3.0	UTILITY & PAVING
	C4.0	DRAINAGE, UTILITIES & PAVING DETAILS
ARCHITECTURAL	A201	LOWER FLOOR PLAN
	A202	MAIN FLOOR PLAN
	A203	UPPER FLOOR PLAN
	A204	ROOF PLAN
	A300	EXTERIOR ELEVATIONS
	A301	EXTERIOR ELEVATIONS
	A400	BUILDING SECTIONS
	A402	WALL SECTIONS
	A600	WINDOW / DOOR SCHEDULES
	A700	ASSEMBLY DETAILS
STRUCTURAL	S1.1	GENERAL STRUCTURAL NOTES
	S1.2	GENERAL STRUCTURAL NOTES
	S1.3	SPECIAL INSPECTION NOTES
	S2.1	FOUNDATION PLAN
	S2.2	MAIN FLOOR FRAMING/UPPER FOUNDATION PLAN
	S2.3	UPPER FRAMING PLAN
	S2.4	ROOF FRAMING PLAN
	S3.1	TYPICAL CONCRETE DETAILS
	S3.2	FOUNDATION DETAILS
	S3.3	FOUNDATION DETAILS
	S4.1	TYPICAL WOOD FRAMING DETAILS
	S4.2	WOOD FRAMING DETAILS
	S4.3	WOOD FRAMING DETAILS
	S5.1	STEEL DETAILS
	SH1.1	GENERAL SHORING NOTES
	SH2.1	SHORING PLAN
	SH3.1	SHORING DETAILS
	SH4.1	SHORING ELEVATIONS
	SH4.2	SHORING ELEVATIONS
	SH4.3	SHORING ELEVATIONS
	SH4.4	SHORING ELEVATIONS
	SH4.5	SHORING ELEVATIONS
	SH4.6	SHORING ELEVATIONS
	SH4.7	SHORING ELEVATIONS

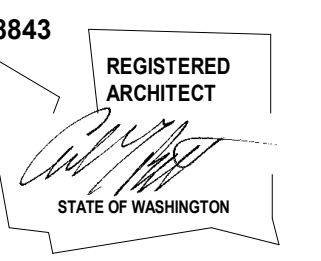
Brandt

Design Group

66 Bell Street
Unit 1
Seattle, WA
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206.239.0850

brandtdesigninc.com



KAHAN SPEC HOME

8163 WEST MERCER WAY
MERCER ISLAND, WA 98040

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PERMIT DOCUMENTS

DATE: 4/30/21

SHEET SIZE: D (24X36)

REVISIONS

NO: DATE:

PlanCheck1 04.30.21

DRAWN BY: MO

CHECKED BY: BM

COVERSHEET

SCALE: As indicated

A000

DEDICATED
APPROVAL
STAMP SPACE

VERTICAL DATUM

NAVD 88 (PER CITY OF MERCER ISLAND CONTROL)

BENCHMARK

CITY OF MERCER ISLAND CONTROL POINT 4331: FOUND 1" X 1" BRASS TACK IN CONC. DOWN 1.1" IN CASE, IN THE CENTERLINE OF WEST MERCER WAY NEAR THE NORTHEASTERLY CORNER OF SITE. ELEV=140.59

BASIS OF BEARINGS

N48°05'18"W BETWEEN THE FOUND CENTERLINE MONUMENTS ON WEST MERCER WAY

REFERENCES

- SEASPECT SHORT PLAT, M.J. FILE NO. SUB9706-005, MERCER ISLAND, WASHINGTON

LEGEND

- BOLLARD
- SIGN
- MAIL KIOSK
- GAS VALVE
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- STORM DRAIN STUB
- CATCH BASIN TYPE I
- CATCH BASIN TYPE II
- STORM DRAIN MANHOLE
- SEWER STUB
- SEWER CLEANOUT
- SEWER MANHOLE
- POWER POLE
- POWER JUNCTION BOX
- POWER CONDUIT
- COMMUNICATION PEDESTAL
- FOUND CORNER AS NOTED

- BOF BOTTOM OF FLANGE
- TON TOP OF NUT
- R/C REBAR AND CAP
- BPA BUILDING PAD AREA

- ASPHALT
- POWER
- COMMUNICATIONS
- GAS
- STORM
- SEWER

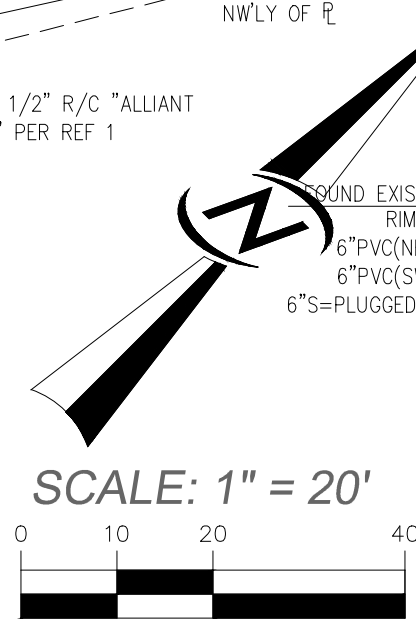
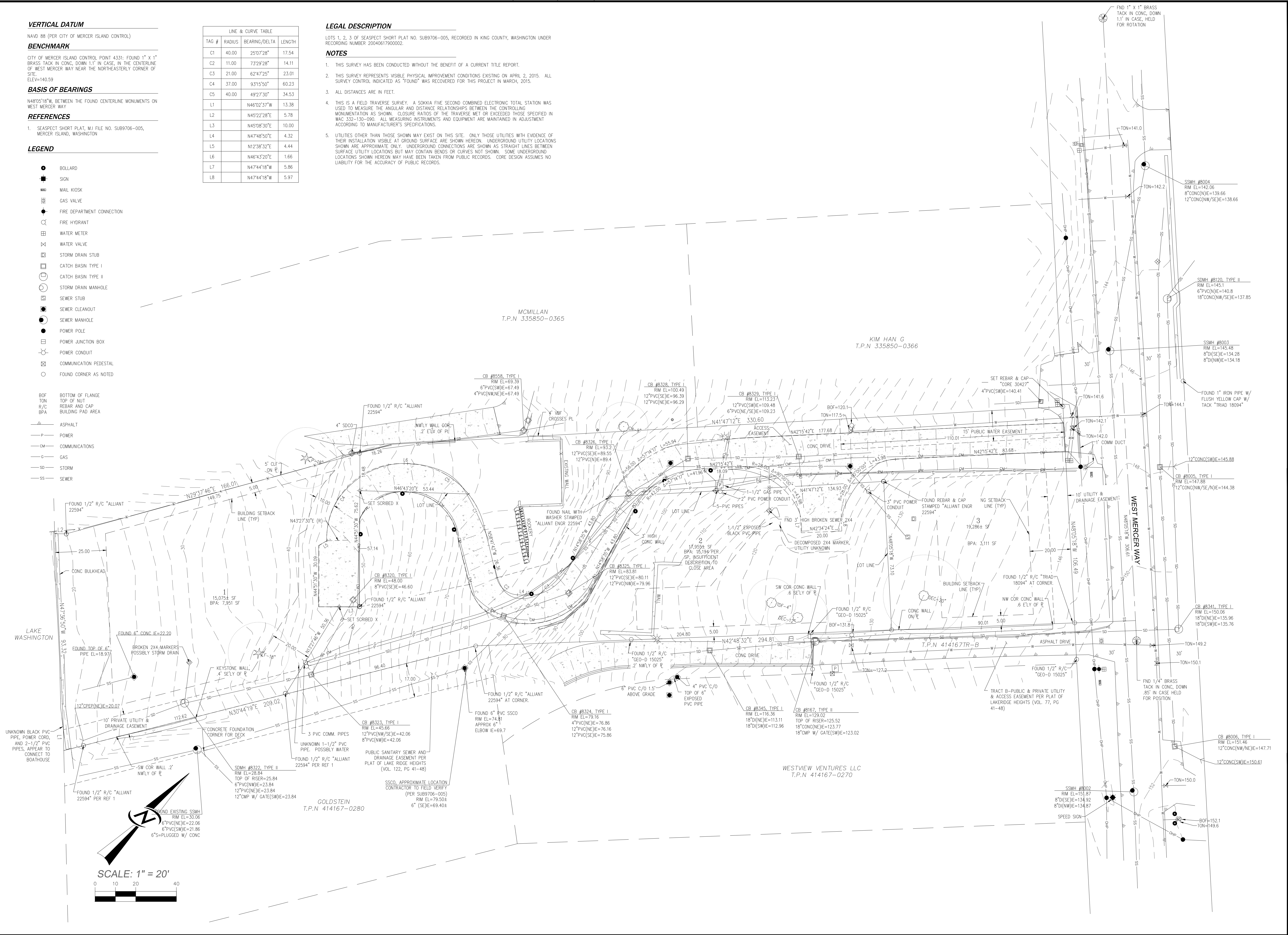
LINE & CURVE TABLE			
TAG #	RADIUS	BEARING/Delta	LENGTH
C1	40.00	25°07'28"	17.54
C2	11.00	73°29'28"	14.11
C3	21.00	62°47'25"	23.01
C4	37.00	93°15'50"	60.23
C5	40.00	49°27'30"	34.53
L1		N46°02'37"W	13.38
L2		N45°22'28"E	5.78
L3		N45°08'30"E	10.00
L4		N47°48'50"E	4.32
L5		N12°38'32"E	4.44
L6		N46°43'20"E	1.66
L7		N47°44'18"W	5.86
L8		N47°44'18"W	5.97

LEGAL DESCRIPTION

LOTS 1, 2, 3 OF SEASPECT SHORT PLAT NO. SUB9706-005, RECORDED IN KING COUNTY, WASHINGTON UNDER RECORDING NUMBER 20040617900002.

NOTES

- THIS SURVEY HAS BEEN CONDUCTED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT.
- THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING ON APRIL 2, 2015. ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN MARCH, 2015.
- ALL DISTANCES ARE IN FEET.
- THIS IS A FIELD TRAVERSE SURVEY. A SOKKIA FIVE SECOND COMBINED ELECTRONIC TOTAL STATION WAS USED TO MEASURE THE ANGULAR AND DISTANCE RELATIONSHIPS BETWEEN THE CONTROLLING MONUMENTATION AS SHOWN. CLOSURE RATIOS OF THE TRAVERSE MET OR EXCEEDED THOSE SPECIFIED IN WAC 332-130-090. ALL MEASURING INSTRUMENTS AND EQUIPMENT ARE MAINTAINED IN ADJUSTMENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT GROUND SURFACE ARE SHOWN HEREIN. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY. UNDERGROUND CONNECTIONS ARE SHOWN AS STRAIGHT LINES BETWEEN SURFACE UTILITY LOCATIONS BUT MAY CONTAIN BENDS OR CURVES NOT SHOWN. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. CORE DESIGN ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS.



NO.	DATE	REVISIONS

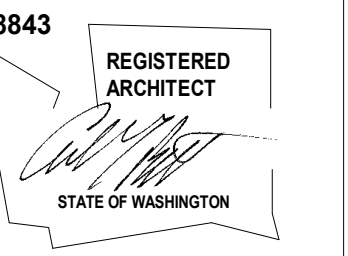
14711 NE 29th Place, #101
Bellevue, Washington 98007
425.885.7877 Fax 425.885.7963

CORE DESIGN
ENGINEERING • PLANNING • SURVEYING

TOPOGRAPHIC SURVEY SEASPECT SHORT PLAT

JOHN KAHAN
5656 E. MERCER WAY
MERCER ISLAND, WA 98040

DATE: 04/20/2015	DESIGNED: MRP/NRR	DRAWN: MRP/NRR	APPROVED: KJV	PROJECT MANAGER: KEVIN VANDERZANDEN, PLS
SHEET: 1	OF: 1	PROJECT NUMBER: 15039		



BUILDING PAD & SETBACK LEGEND

- PROPERTY LINE
- SETBACK LINE
- PREVIOUSLY APPROVED BUILDING PAD - TO BE ABANDONED
- PROPOSED BUILDING PAD
- APPROVED FIRE DEPARTMENT TURNAROUND
- SHARED DRIVEWAY COUNTED TOWARDS LOT COVERAGE
- ACCESS EASEMENT
- 15' PUBLIC WATER EASEMENT
- PRIVATE UTILITY AND DRAINAGE EASEMENT

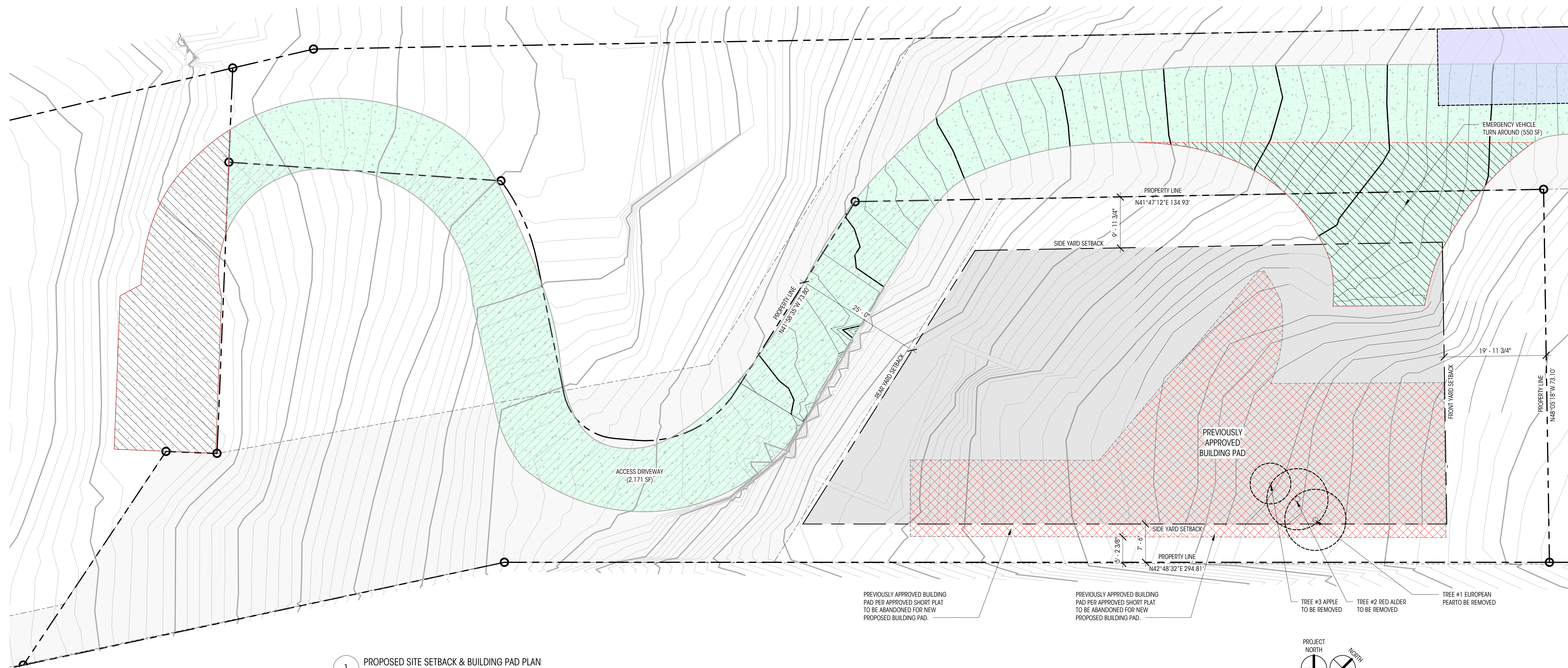
PROJECT DATA

EXISTING LOT AREA SUMMARY

GROSS LOT AREA	17,956 SF
ACCESS EASEMENTS	2,721 SF
NET LOT AREA	15,234 SF
LOT SLOPE	90.35' / 301.2' = 29.9%

SETBACKS

SIDE YARD	VARIABLE MINIMUM 7'-6"
FRONT YARD	20'
REAR YARD	25'



1 PROPOSED SITE SETBACK & BUILDING PAD PLAN
1" = 10'-0"

KAHAN SPEC HOME

8163 WEST MERCER WAY
MERCER ISLAND, WA 98040
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PERMIT DOCUMENTS

DATE: 4/30/21

SHEET SIZE: D (24X36)

REVISIONS

NO. DATE:

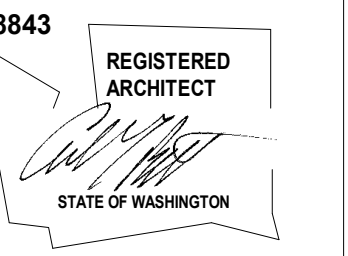
DRAWN BY: MO
CHECKED BY: BM

BUILDING PAD PLAN

SCALE: As indicated

A101

DEDICATED
APPROVAL
STAMP SPACE



CONSTRUCTION MONITORING NOTES

MONITOR ADJACENT BLDG. FOR SETTLEMENT. START MONITORING PRIOR TO DEMOLITION WEEKLY UNTIL PILE DRIVING IS COMPLETE. LEVELS TO BE MEASURED BY PROJECT SURVEYOR. CONTINUOUS SPECIAL INSPECTION BY THE GEOTECHNICAL ENGINEER DURING EXCAVATION AND SHORING INSTALLATION SHALL BE PROVIDED.

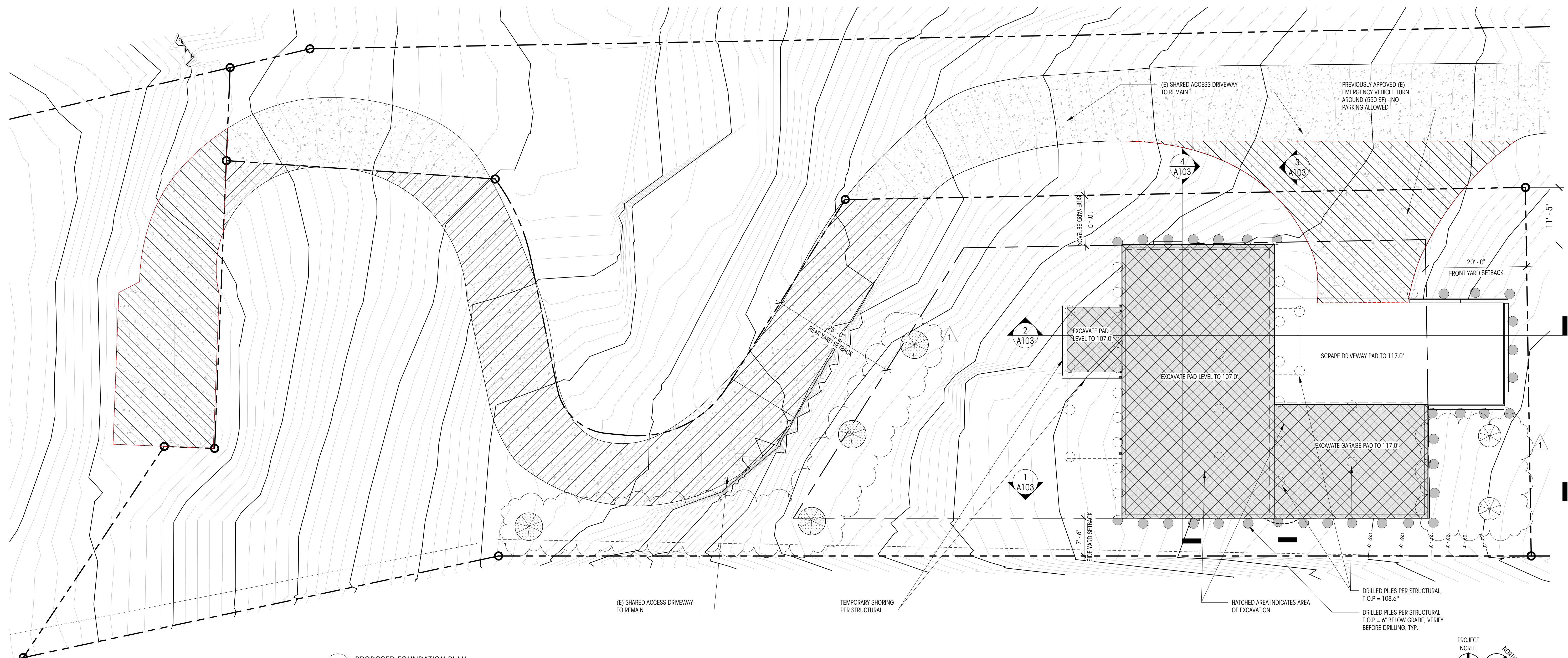
EXCAVATION PLAN LEGEND

	EXISTING TOPOGRAPHY LINE MAJOR
	EXISTING TOPOGRAPHY LINE MINOR
	EXTENT OF EXCAVATION
	APPROVED FIRE DEPARTMENT TURNAROUND
	SHARED DRIVEWAY EASEMENT
	DRILLED PILE FOR PERMANENT SHORING PER STRUCTURAL/GEOTECH
	DRILLED PILE FOR FOUNDATION PER STRUCTURAL/GEOTECH

CONSTRUCTION PHASING

1. REMOVE TREES
2. DRILL/INSTALL SHORING PILES FOR STABILIZATION WALL
3. EXCAVATE REMAINING SITE
4. SCRAPE BUILDING PAD
5. FOUNDATION FORMWORK
6. FOUNDATION INSTALL
7. RETAINING WALL FORMWORK
8. DRAIN MAT INSTALL & TRENCHING FOR DRAINAGE AND UTILITIES
9. NON-STRUCTURAL RAT-SLAB INSTALL
10. FORM PARKING PAD FOUNDATION
11. POUR PARKING PAD FOUNDATIONS
12. FORM PARKING PAD RETAINING WALLS
13. FORM PARKING PAD & GARAGE SLAB
14. POUR PARKING/GARAGE SLABS
15. FINAL ROUGH GRADING
16. FRAMING

NOTE: NO SOIL, WATER OR DEBRIS FROM SITE ACTIVITIES WILL BE ALLOWED TO BE PLACED OR DISCHARGED ON THE SLOPE.



1 PROPOSED FOUNDATION PLAN
1" = 10'-0"

KAHAN SPEC HOME

8163 WEST MERCER WAY
MERCER ISLAND, WA 98040
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PERMIT DOCUMENTS

DATE: 4/30/21

SHEET SIZE: D (24X36)

REVISIONS

NO. DATE:
PlanCheck1 04.30.21

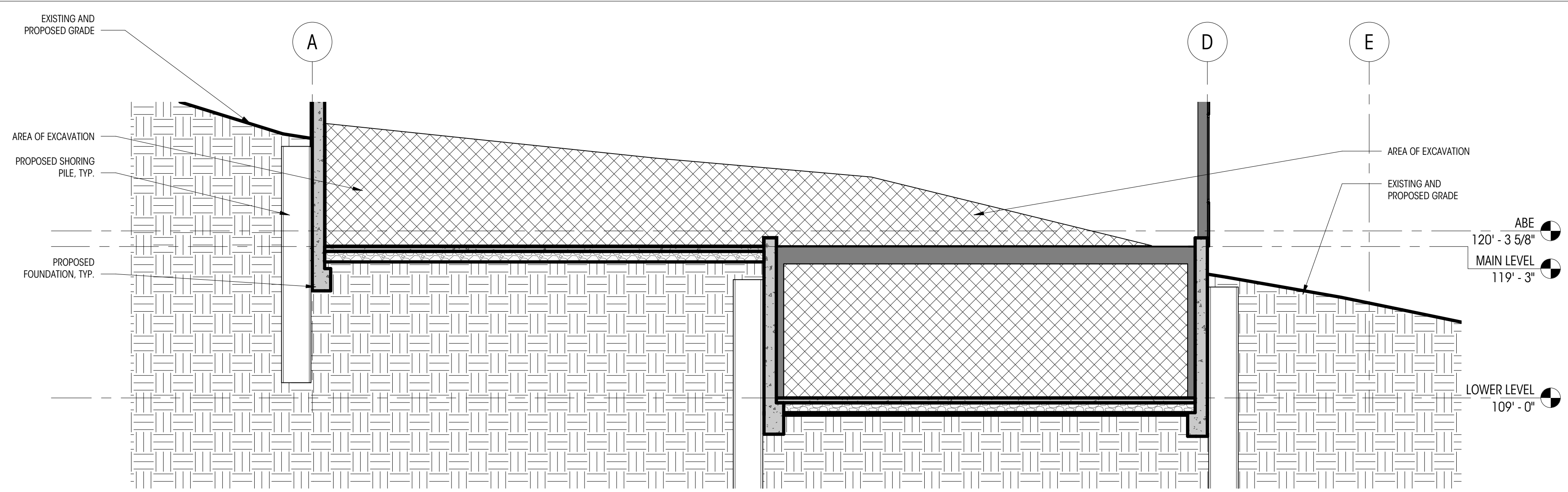
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CHECKED BY: BM

EXCAVATION PLAN

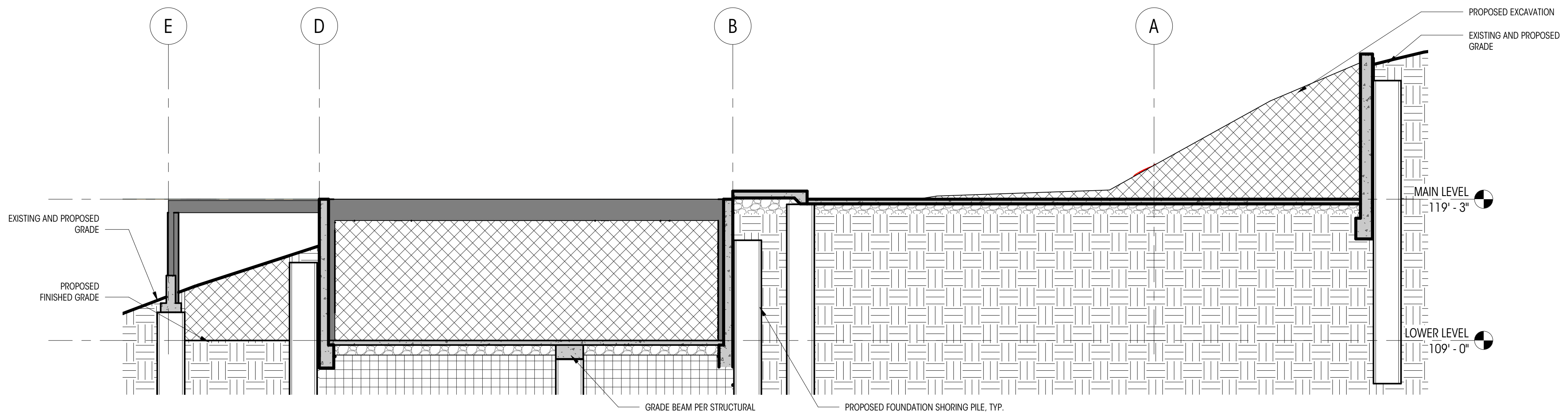
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A102

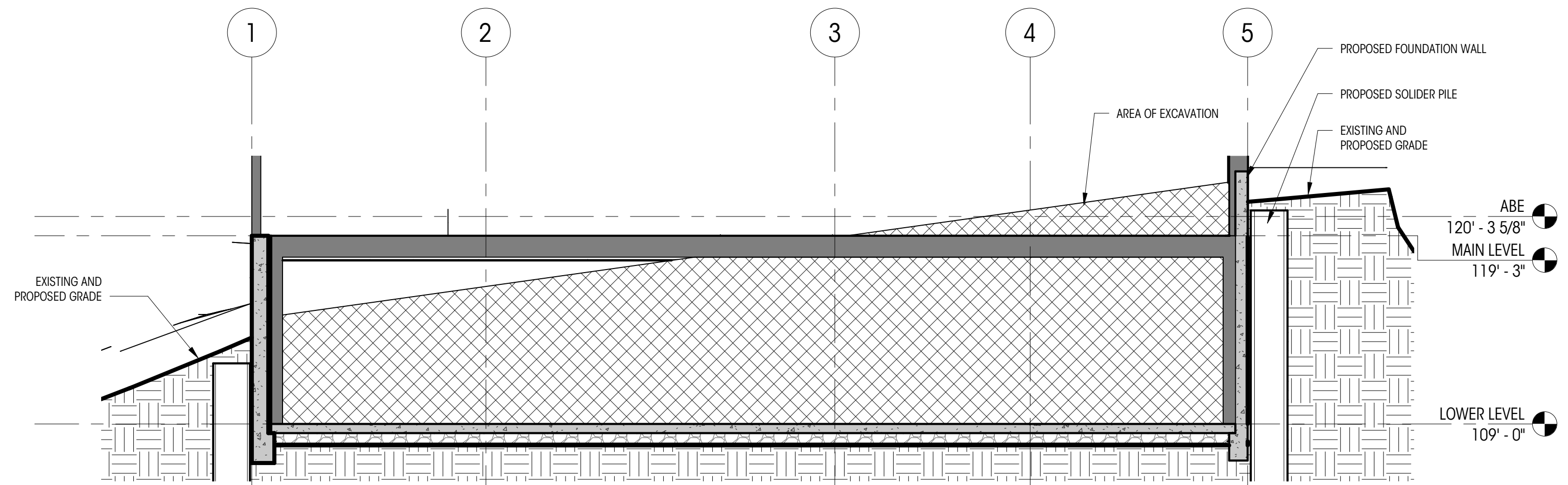
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APPROVAL
STAMP SPACE



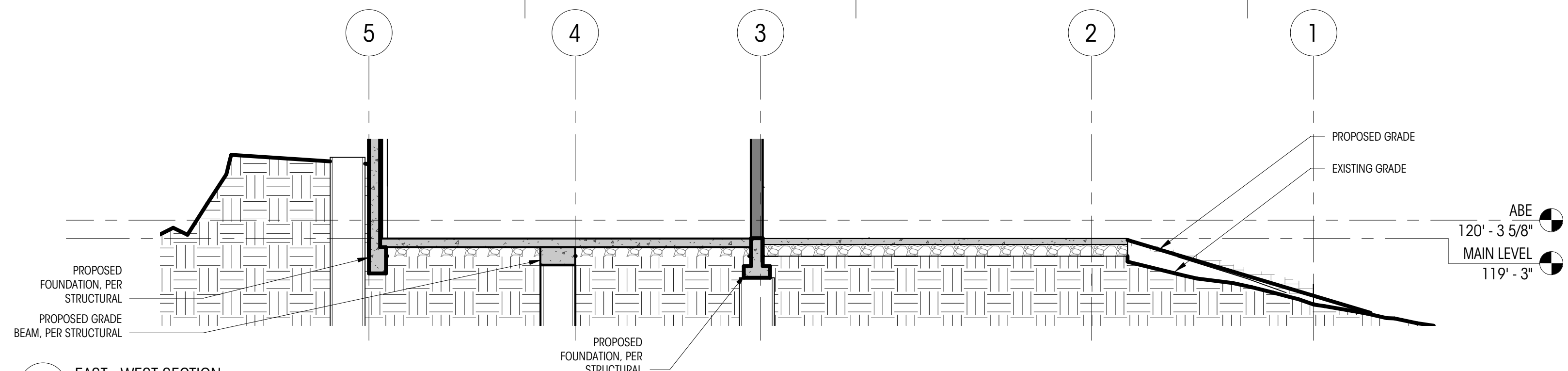
1 NORTH - SOUTH SECTION
3/16" = 1'-0"



2 EAST - WEST SECTION
3/16" = 1'-0"



4 NORTH - SOUTH SECTION
3/16" = 1'-0"

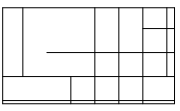

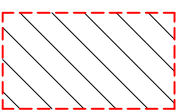


3 EAST - WEST SECTION
3/16" = 1'-0"

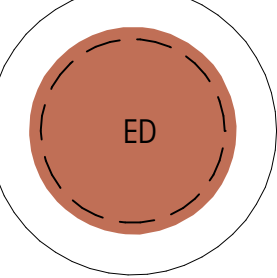
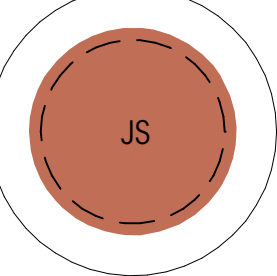
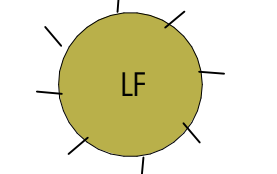
SITE EXCAVATION LEGEND

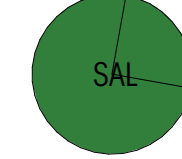



	PROPOSED GRADE
	(E) GRADE
	ALTERED (E) GRADE
	PROPOSED FOUNDATION
	FILL
	PROPOSED CUT

CRITICAL AREA LEGEND

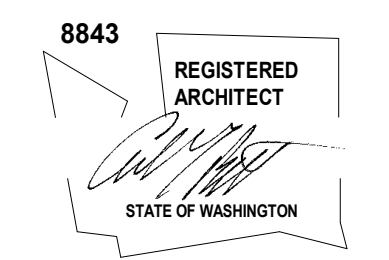
-  STEEP SLOPE AREA
-  PROPERTY SETBACK
-  APPROVED FIRE DEPARTMENT TURNAROUND

SLOPE STABILIZATION PLANTING PLAN LEGEND

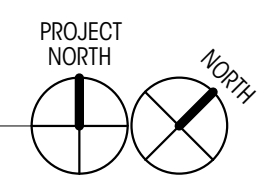
VEGETATION	SPECIES COMMON NAME	SPECIES LATIN NAME
	EDDIES WHITE WONDER DOGWOOD	<i>Cornus Nuttallii x Florida</i>
	JAPANESE SNOWBELL	<i>Styrax Japonicus</i>
	LADY FERN	<i>Athyrium Filix-Femina</i>

VEGETATION	SPECIES COMMON NAME	SPECIES LATIN NAME
	SALAL	<i>Gaultheria Shallon</i>
	DEER FERN	<i>Blechnum Spicant</i>
	OAK FERN	<i>Gynocarpium Dryopteris</i>
	EVERGREEN HUCKLEBERRY	<i>Vaccinium Ovatum</i>

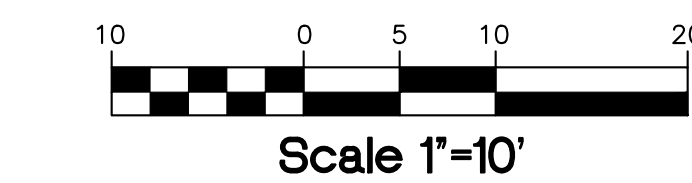
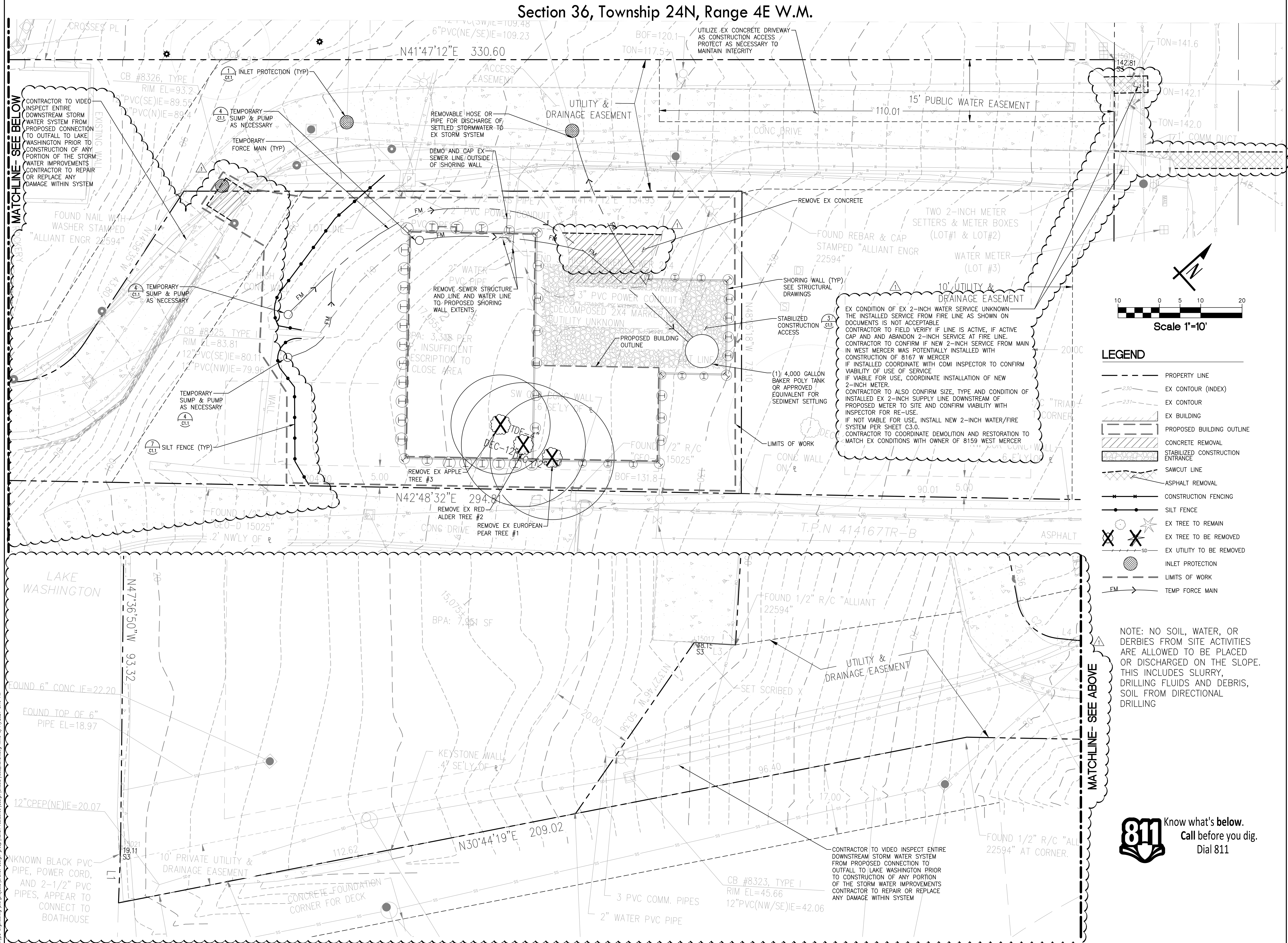
PER MICC 19.02.020(F)(3)(D), THE PROJECT SHALL REMOVE JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED, FROM REQUIRED LANDSCAPING AREAS ESTABLISHED PURSUANT TO SUBSECTION (F)(3)(A) OF THIS SECTION. NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE-FAMILY HOME SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED. PROVIDED, THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION.



1 SITE SETBACK & BUILDING PAD PLAN
1" = 10'-0"

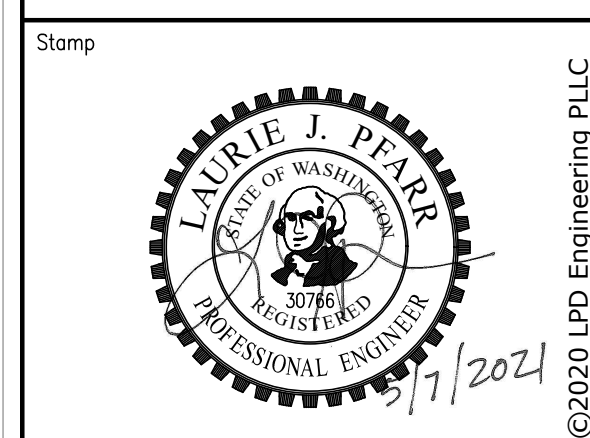


Section 36, Township 24N, Range 4E W.M.

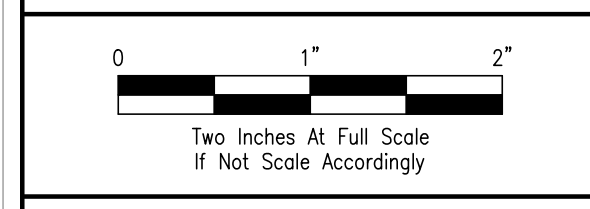


- LEGEND**
- PROPERTY LINE
 - - - EX CONTOUR (INDEX)
 - - - EX CONTOUR
 - ▨ EX BUILDING
 - ▨ PROPOSED BUILDING OUTLINE
 - ▨ CONCRETE REMOVAL
 - ▨ STABILIZED CONSTRUCTION ENTRANCE
 - ▨ SAWCUT LINE
 - ▨ ASPHALT REMOVAL
 - CONSTRUCTION FENCING
 - SILT FENCE
 - ⊗ EX TREE TO REMAIN
 - ⊗ EX TREE TO BE REMOVED
 - ⊗ EX UTILITY TO BE REMOVED
 - ⊗ INLET PROTECTION
 - LIMITS OF WORK
 - FM --- TEMP FORCE MAIN

NOTE: NO SOIL, WATER, OR DERBIES FROM SITE ACTIVITIES ARE ALLOWED TO BE PLACED OR DISCHARGED ON THE SLOPE. THIS INCLUDES SLURRY, DRILLING FLUIDS AND DEBRIS, SOIL FROM DIRECTIONAL DRILLING



No.	Revisions	Date
1	PERMIT RESUBMITTAL	05/07/2021



Project Name

**KAHAN RESIDENCE
 8163 W MERCER WAY**
 City of Mercer Island, Washington

Project No.	272-20-01
Issue Date	04/30/2021
Scale	1"=10'
Designed	ACW
Drawn	KES
Checked	LJP
Approved	LJP

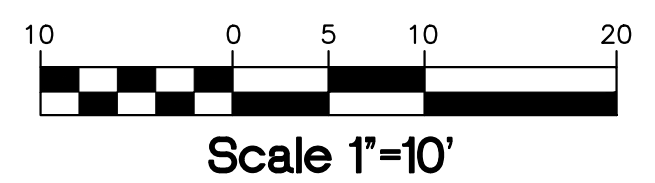
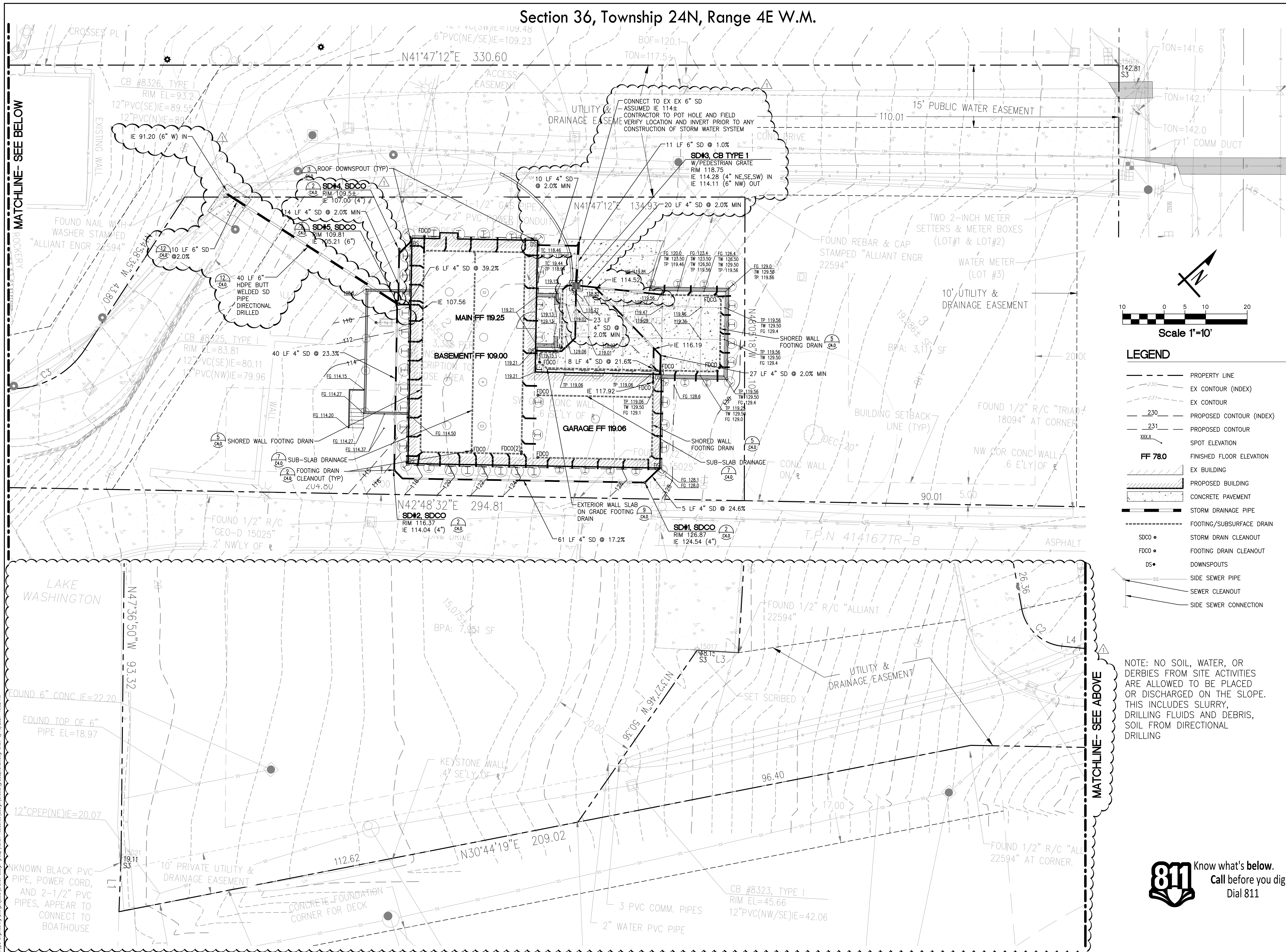
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TESC & DEMOLITION

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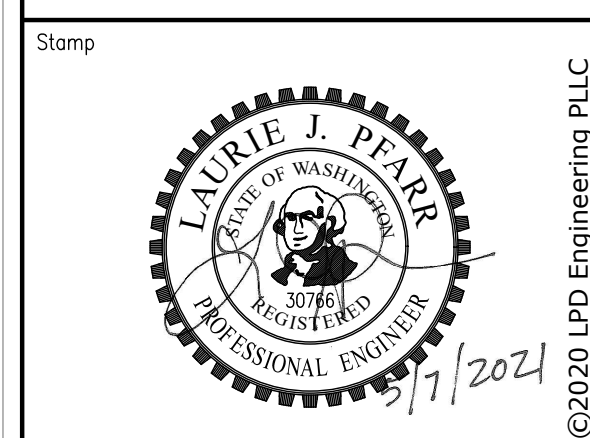
Section 36, Township 24N, Range 4E W.M.



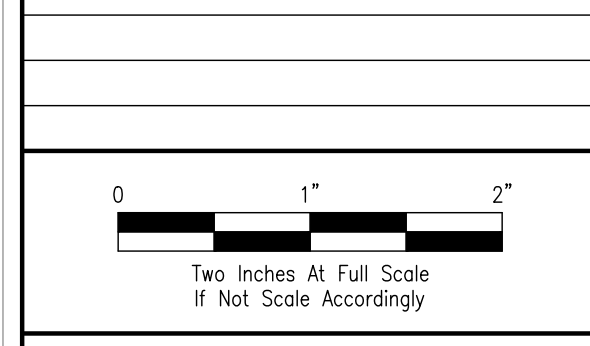
- LEGEND**
- PROPERTY LINE
 - - - EX CONTOUR (INDEX)
 - - - EX CONTOUR
 - - - PROPOSED CONTOUR (INDEX)
 - - - PROPOSED CONTOUR
 - XXX SPOT ELEVATION
 - FF 78.0 FINISHED FLOOR ELEVATION
 - ▨ EX BUILDING
 - ▨ PROPOSED BUILDING
 - ▨ CONCRETE PAVEMENT
 - ▨ STORM DRAINAGE PIPE
 - ▨ FOOTING/SUBSURFACE DRAIN
 - SDCO • STORM DRAIN CLEANOUT
 - FDCO • FOOTING DRAIN CLEANOUT
 - DS • DOWNSPOUTS
 - SS SIDE SEWER PIPE
 - SEWER CLEANOUT
 - SS SIDE SEWER CONNECTION

NOTE: NO SOIL, WATER, OR DERBIES FROM SITE ACTIVITIES ARE ALLOWED TO BE PLACED OR DISCHARGED ON THE SLOPE. THIS INCLUDES SLURRY, DRILLING FLUIDS AND DEBRIS, SOIL FROM DIRECTIONAL DRILLING

811 Know what's below.
Call before you dig.
Dial 811



No.	Revisions	Date
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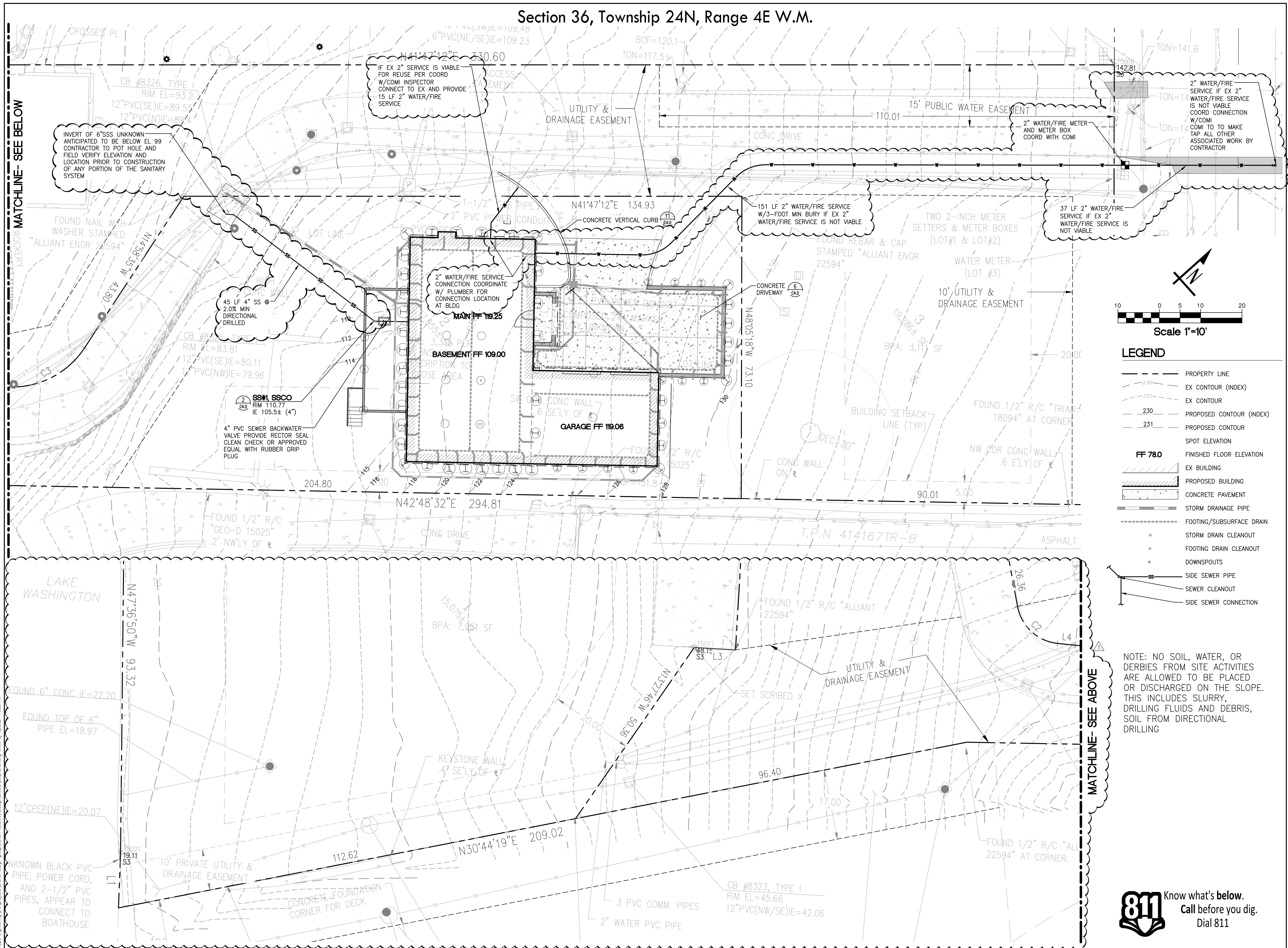
GRADING & DRAINAGE

Permit Resubmittal

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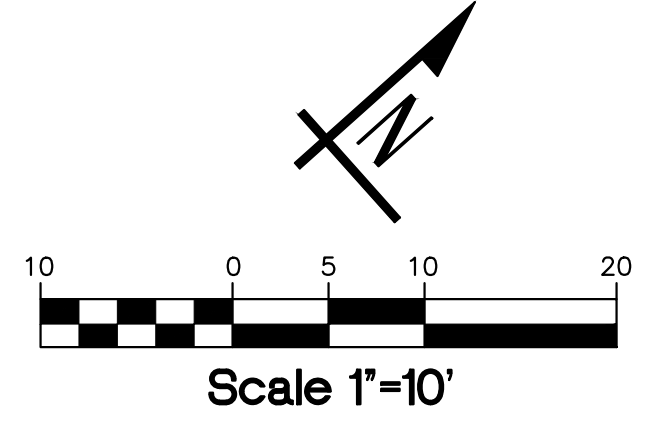
© LPD engineering pllc projects/broad design group/urban residence design/landscape/grade/grading/erow 5/10/2021 10:52 AM

Section 36, Township 24N, Range 4E W.M.



MATCHLINE- SEE BELOW

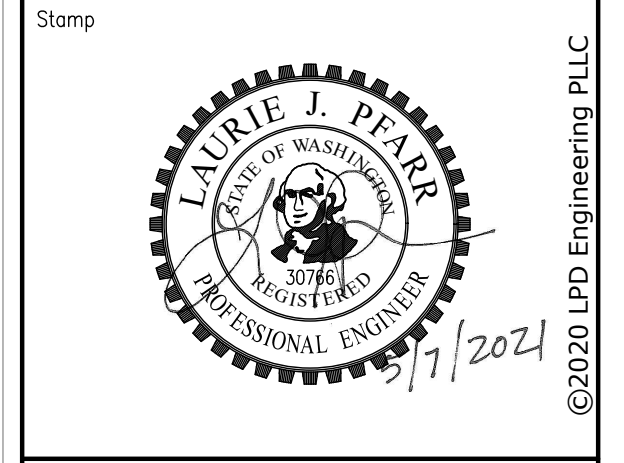
MATCHLINE- SEE ABOVE



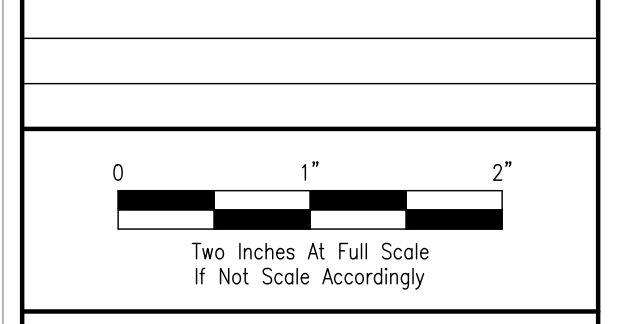
LEGEND

- PROPERTY LINE
- - - EX CONTOUR (INDEX)
- - - EX CONTOUR
- - - PROPOSED CONTOUR (INDEX)
- - - PROPOSED CONTOUR
- SPOT ELEVATION
- FF 78.0 FINISHED FLOOR ELEVATION
- ▨ EX BUILDING
- ▨ PROPOSED BUILDING
- ▨ CONCRETE PAVEMENT
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- DOWNSPOUTS
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- SEWER CLEANOUT
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NOTE: NO SOIL, WATER, OR DERBIES FROM SITE ACTIVITIES ARE ALLOWED TO BE PLACED OR DISCHARGED ON THE SLOPE. THIS INCLUDES SLURRY, DRILLING FLUIDS AND DEBRIS, SOIL FROM DIRECTIONAL DRILLING



No.	Revisions	Date
1	PERMIT RESUBMITTAL	05/07/2021



Project Name

KAHAN RESIDENCE
8163 W MERCER WAY
 City of Mercer Island, Washington

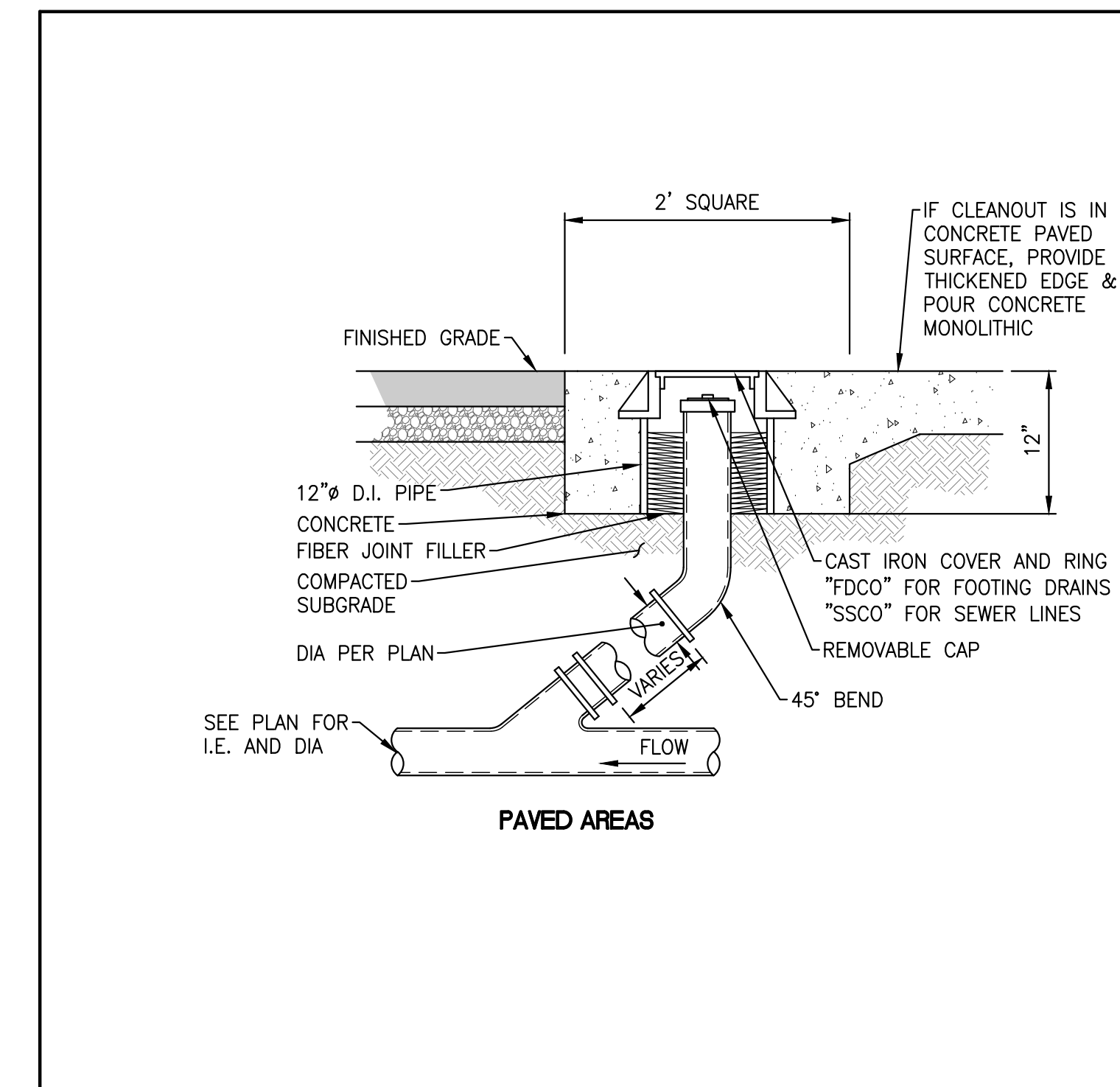
Project No.	272-20-01
Issue Date	04/30/2021
Scale	1"=10'
Designed	ACW
Drawn	KES
Checked	LJP
Approved	LJP

UTILITIES & PAVING

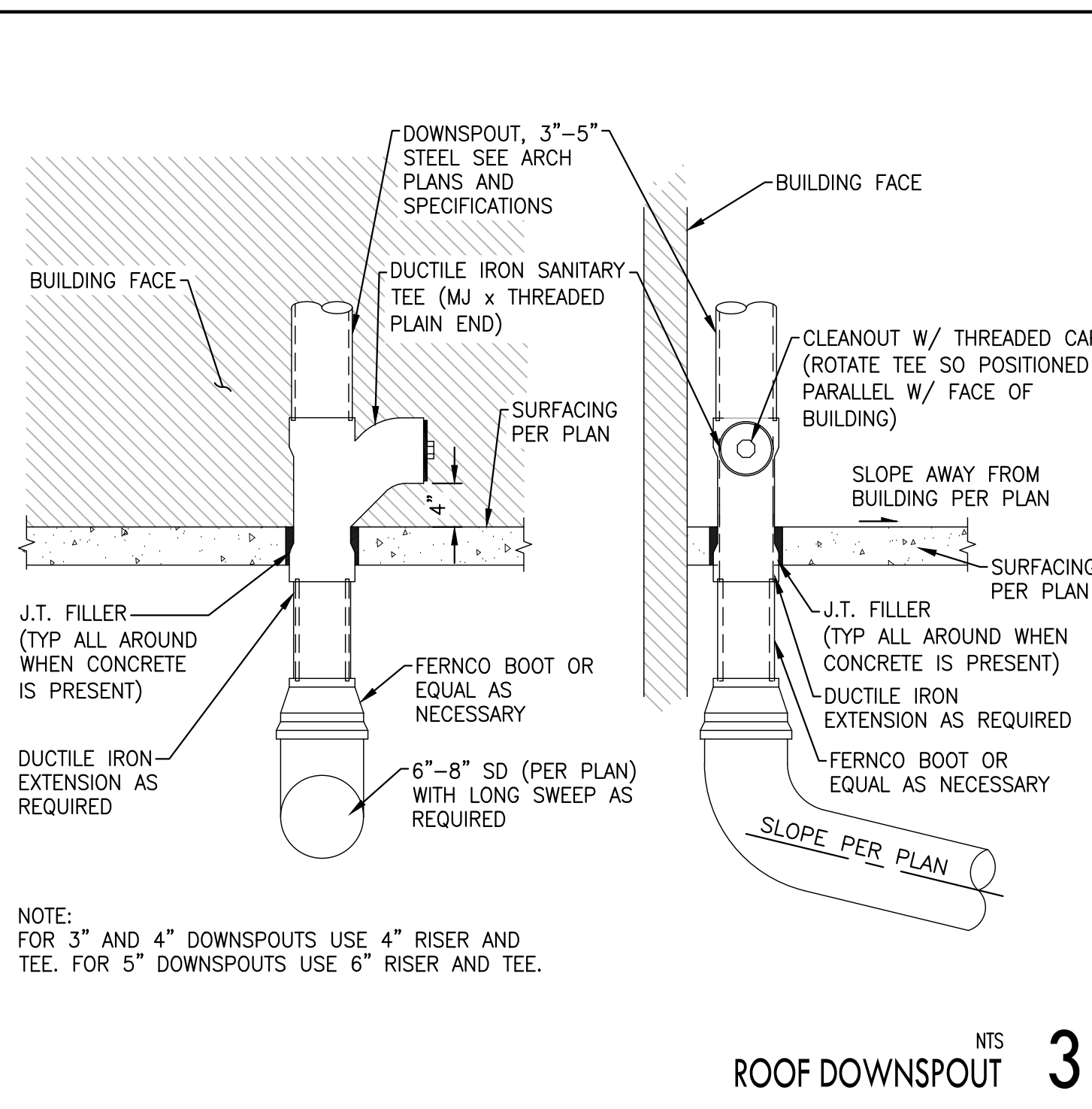
Permit Resubmittal
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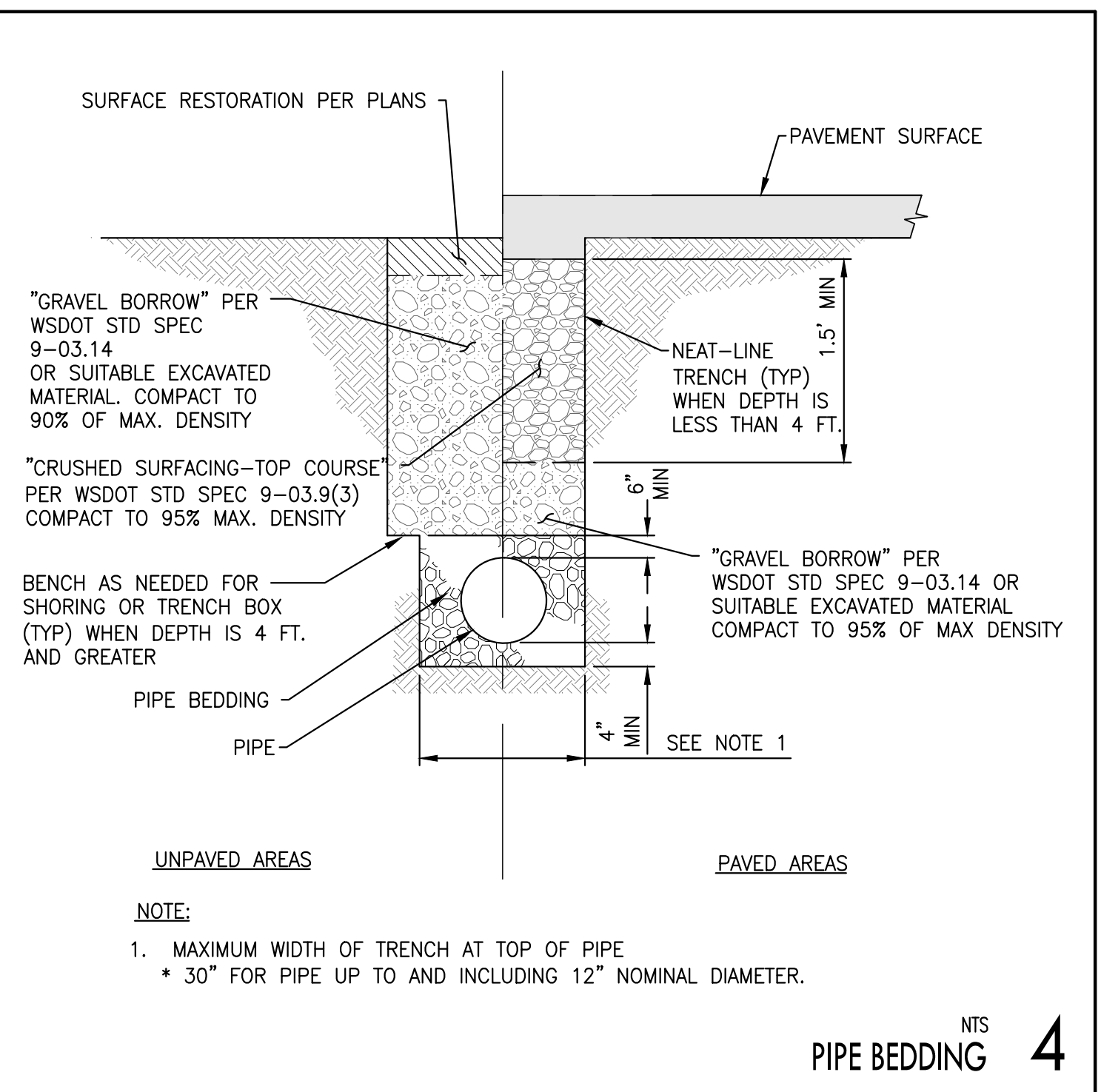
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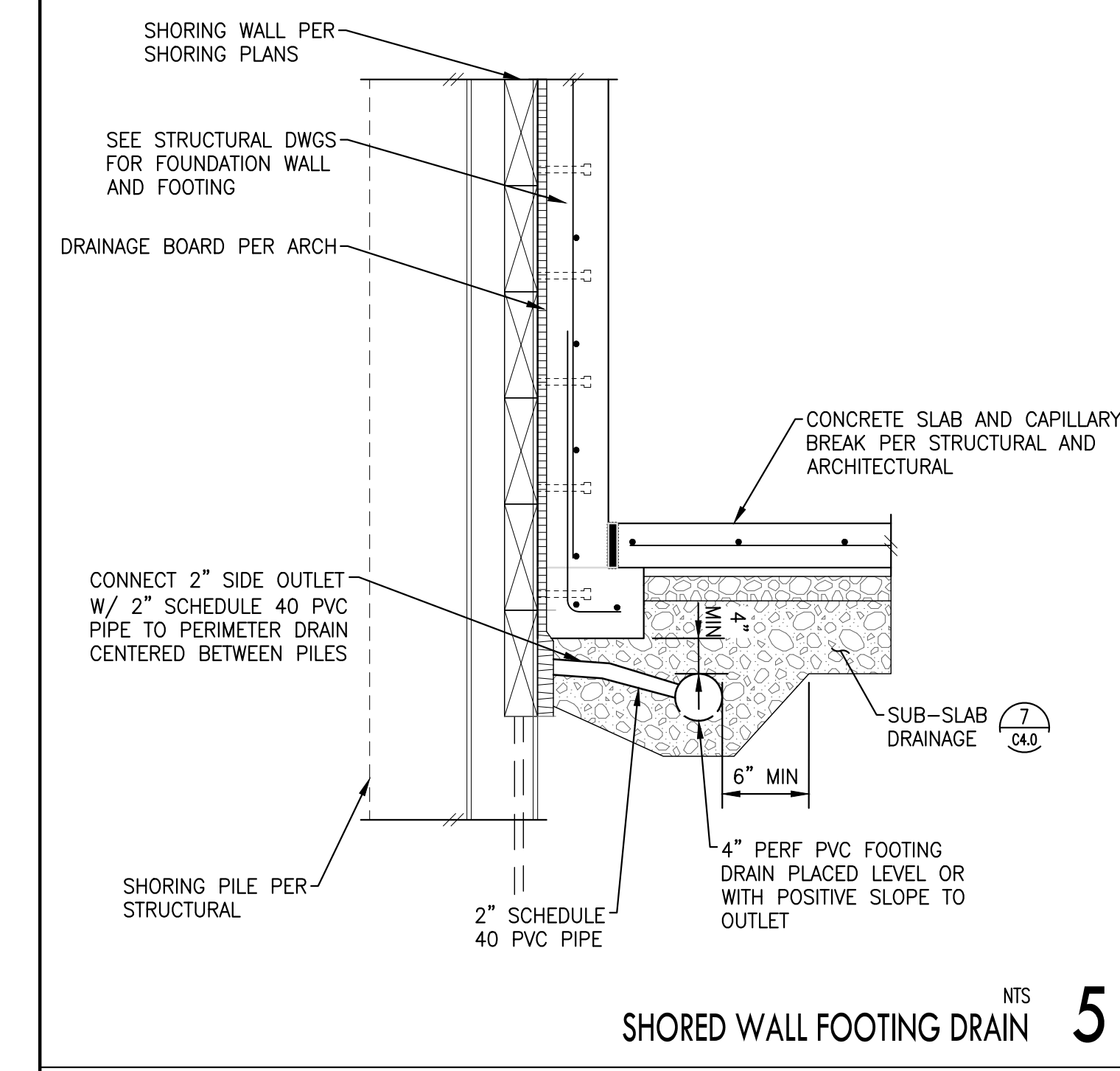
NTS CLEANOUT 2



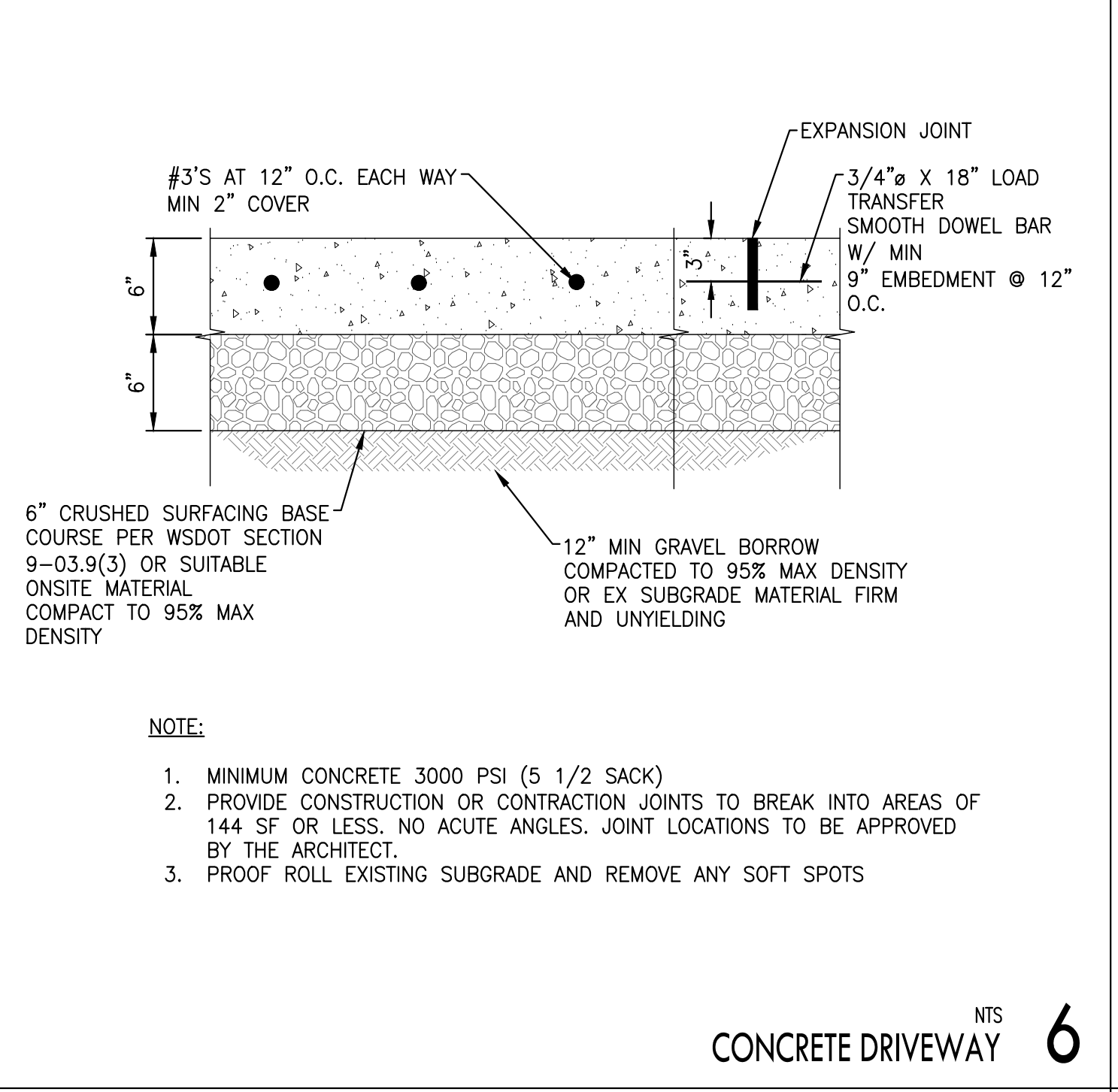
NTS ROOF DOWNSPOUT 3



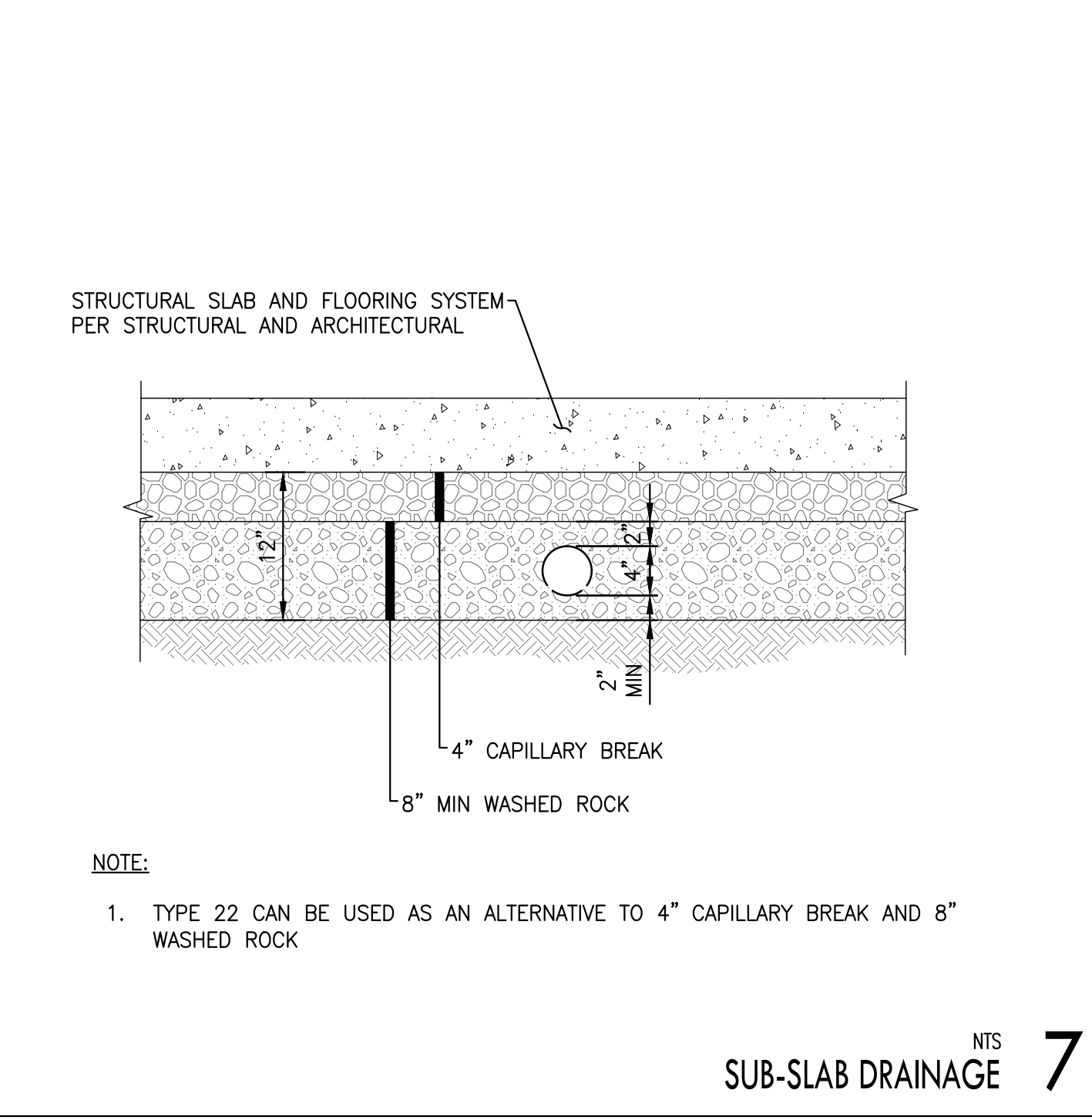
NTS PIPE BEDDING 4



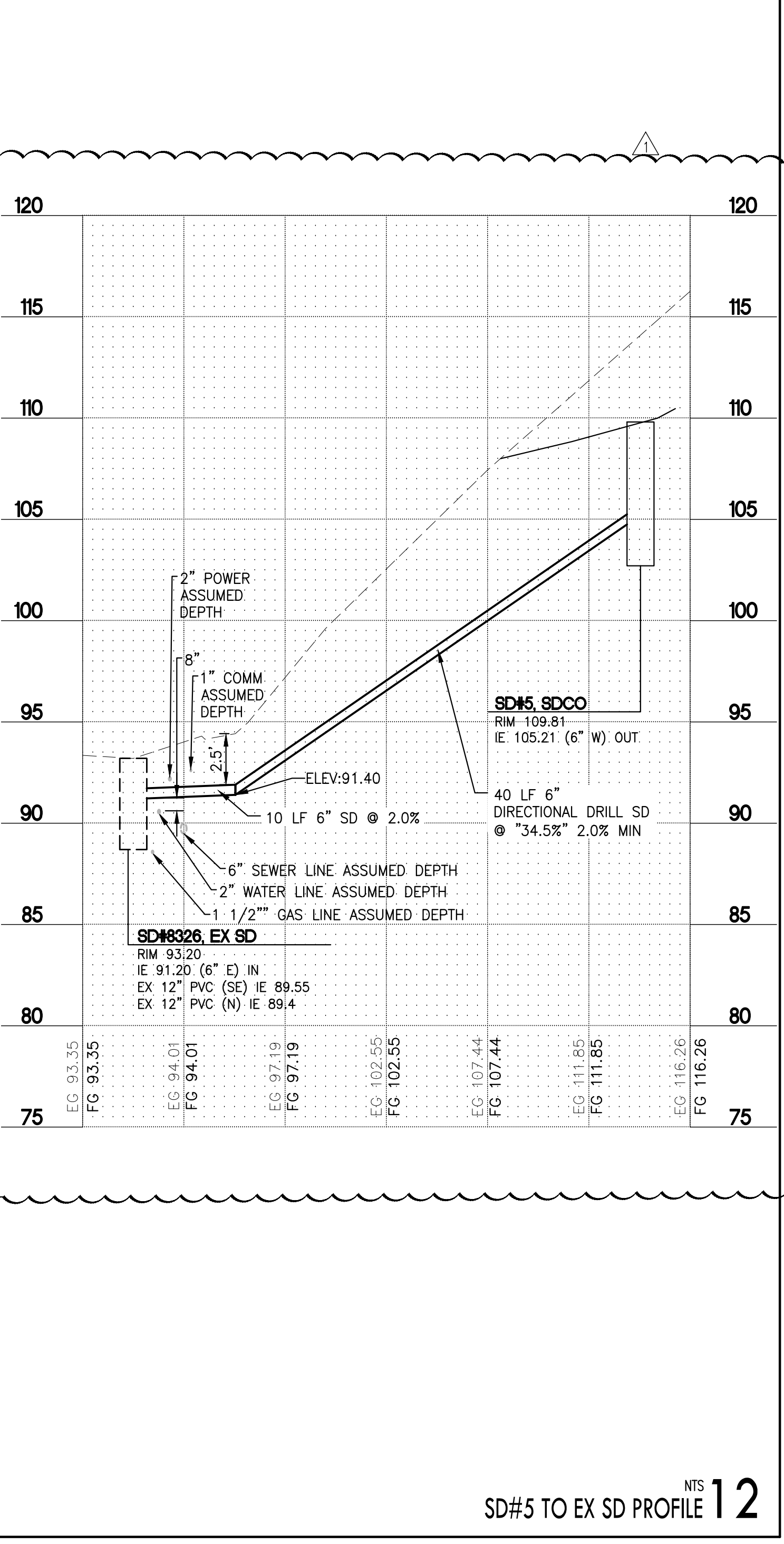
NTS SHORED WALL FOOTING DRAIN 5



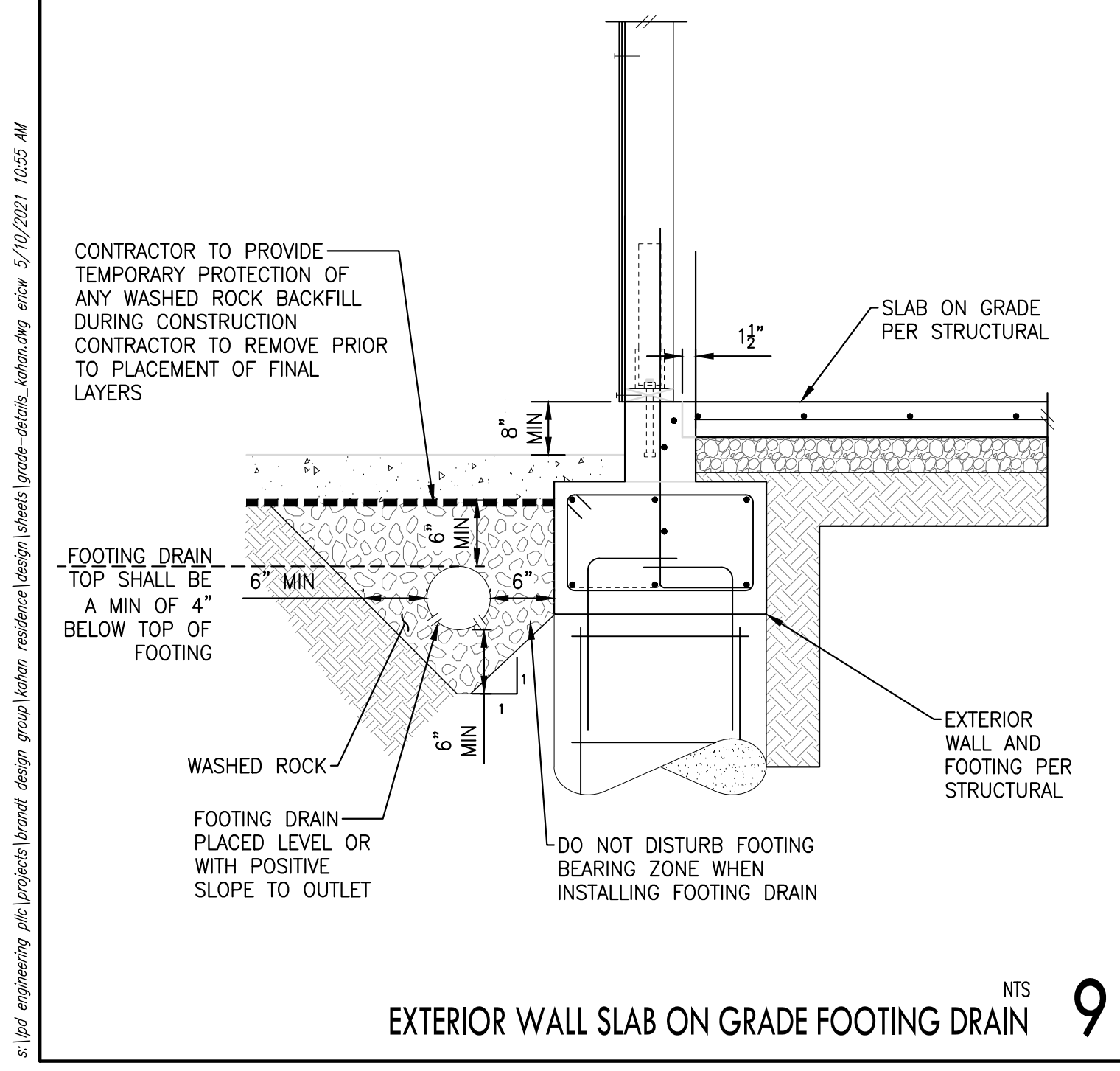
NTS CONCRETE DRIVEWAY 6



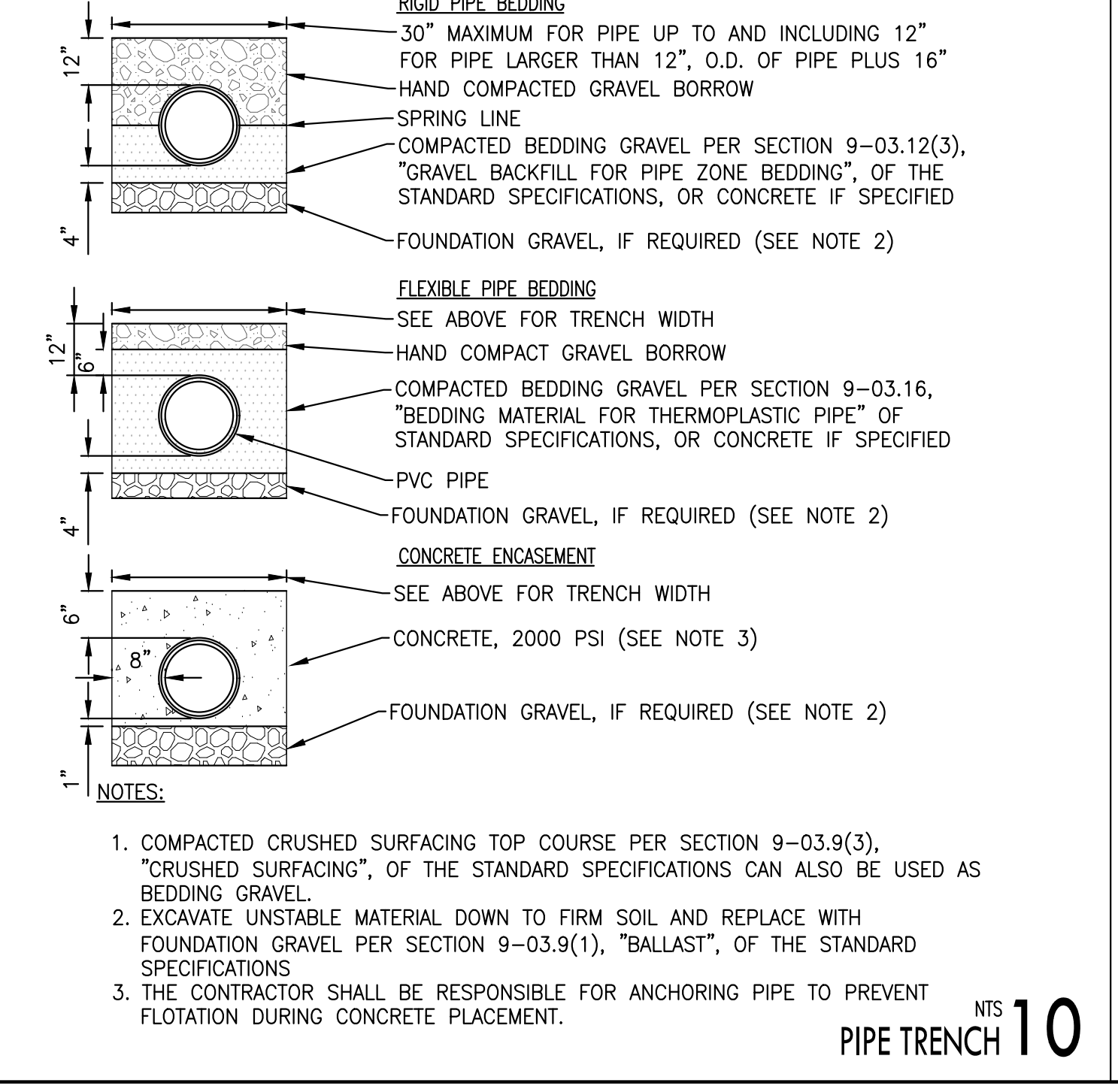
NTS SUB-SLAB DRAINAGE 7



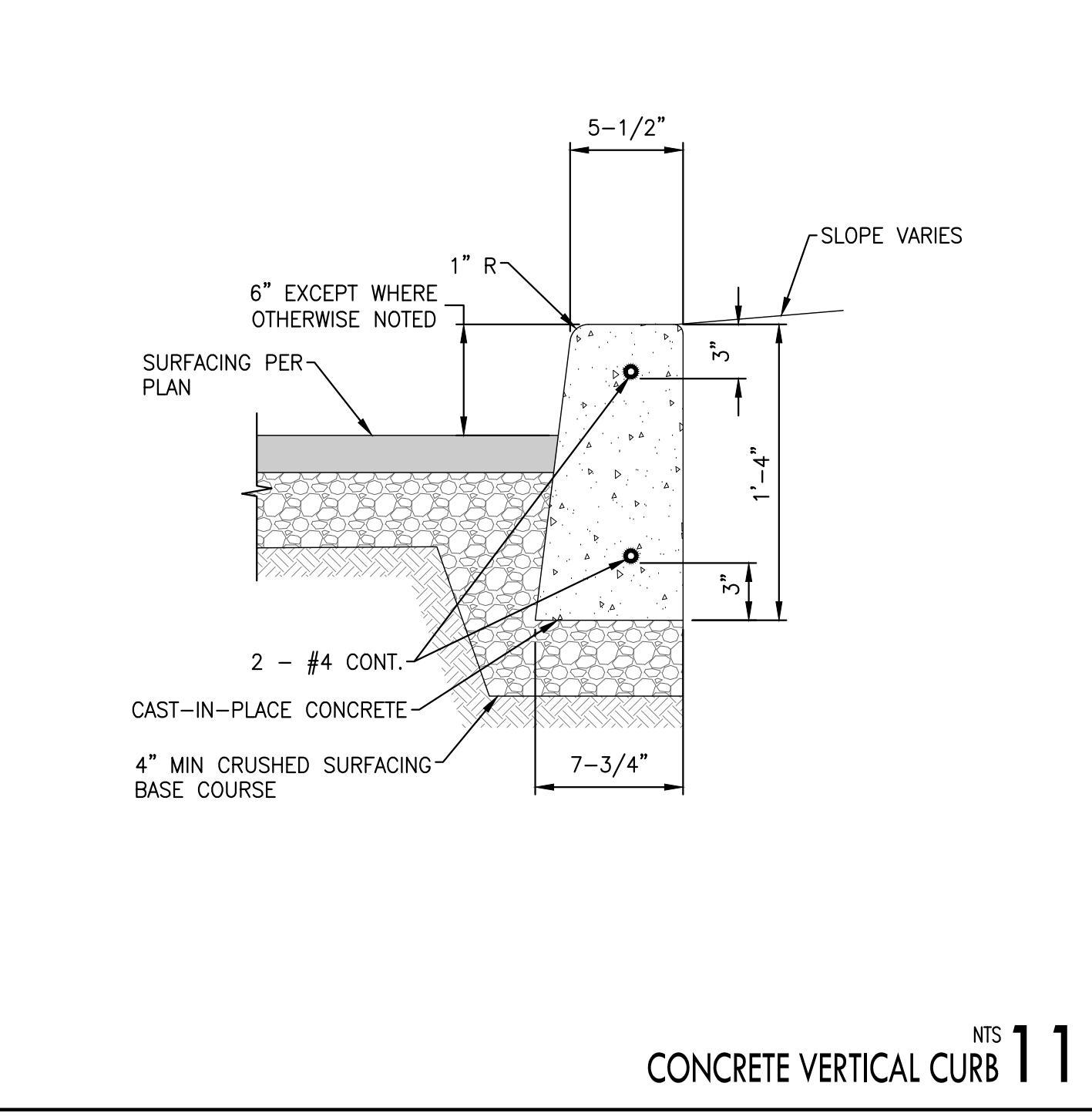
NTS SD#5 TO EX SD PROFILE 12



NTS EXTERIOR WALL SLAB ON GRADE FOOTING DRAIN 9



NTS PIPE TRENCH 10



NTS CONCRETE VERTICAL CURB 11

1932 First Ave, Suite 201, Seattle, WA 98101
p. 206.725.1211 f. 206.973.5344

Stamp

5/1/2021

No. Revisions Date

1 PERMIT RESUBMITTAL 05/07/2021

Project Name

Project No. 272-20-01

Issue Date 04/30/2021

Scale As Noted

Designed ACW Checked LJP

Drawn KES Approved LJP

City of Mercer Island, Washington

KAHAN RESIDENCE

8163 W MERCER WAY

DESCRIPTION

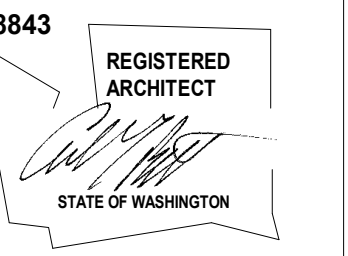
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KAHAN SPEC HOME

8163 WEST MERCER WAY
MERCER ISLAND, WA 98040
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PlanCheck1 04.30.21

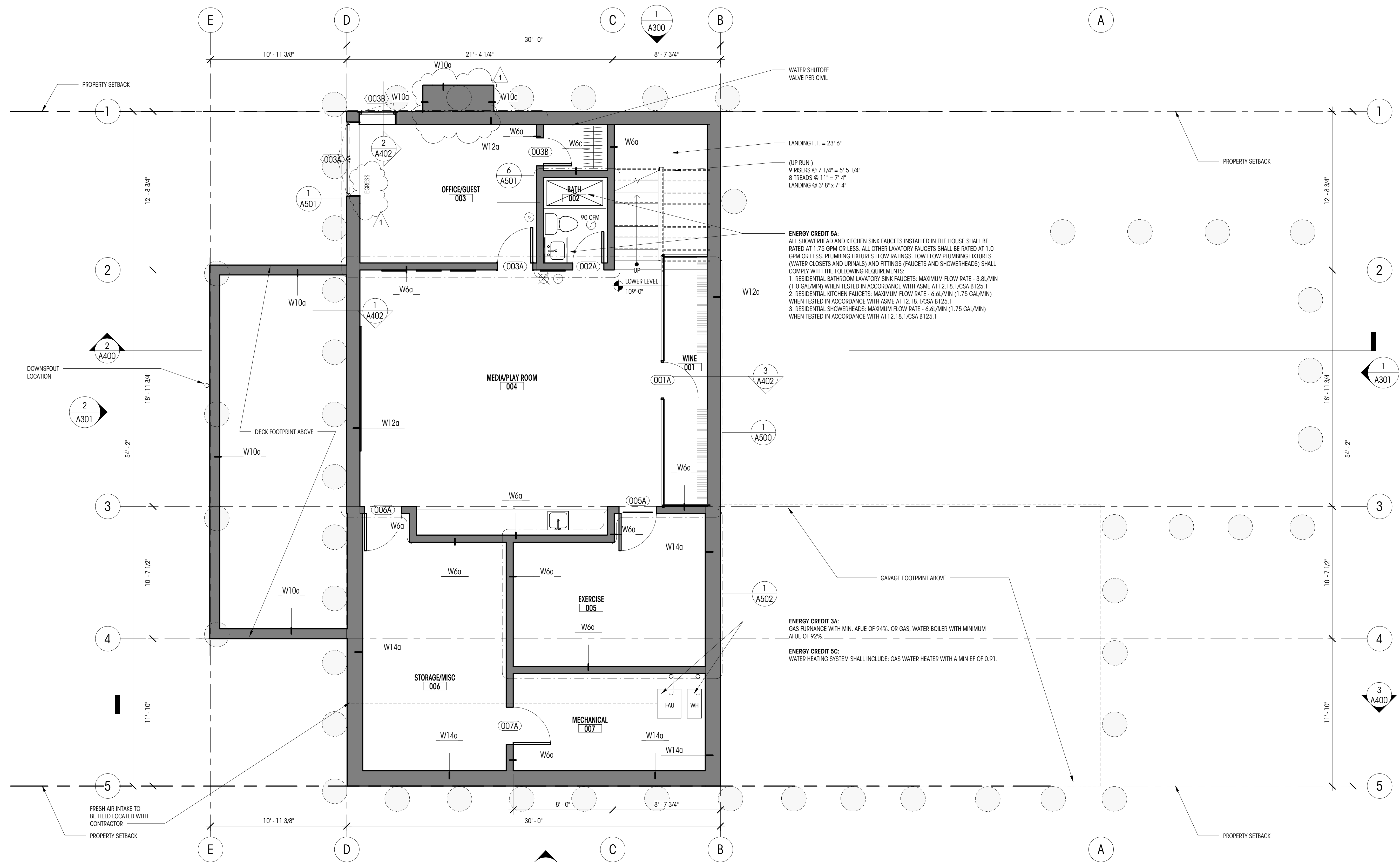
DRAWN BY: MO
CHECKED BY: BM

LOWER FLOOR PLAN

SCALE: As indicated

A201

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APPROVAL
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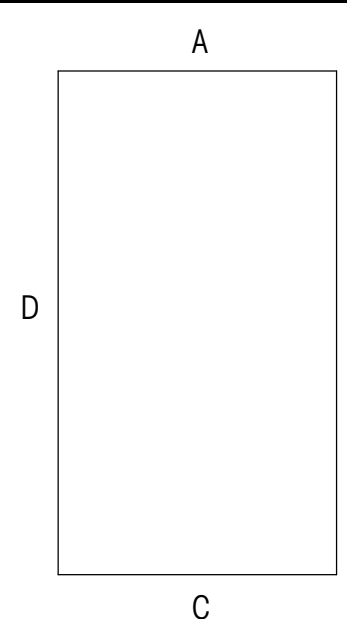


1 PROPOSED LOWER LEVEL FLOOR PLAN
1/4" = 1'-0"

BASEMENT LEVEL BELOW GRADE AREA CALC

WALL SEGMENT	LENGTH	COVERAGE	RESULT
A	30.0'	56%	16.8'
B	54.2'	95%	51.49'
C	30.0'	95%	28.5'
D	54.2'	49%	26.4'
TOTAL	168.4'		123.19'

TOTAL BASEMENT GSF = 1,622 SF
PORTION OF EXCLUDED BASEMENT FLOOR AREA:
(123.19/68.4) X 1622 = 1,187 SF
NET BASEMENT GFA: (1622 - 1187) = 435 SF



LEGEND

- 200A WINDOW ID
- 100A DOOR ID
- 100A FINISH ID
- SMOKE DETECTOR
- SMOKE/CARBON MONOXIDE DETECTOR
- FAN - 100 CFM U.N.O.
- ELEVATION DATUM
- GRIDLINE
- NEW WALL
- WALL TO REMAIN
- TO BE REMOVED
- 1-HOUR RATED ASSEMBLY

NOTES

- ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING AT EXT. FACE OF WALL AND TO CENTERLINE OF FRAMING AT INT. FACE OF WALL, U.N.O.
- ALL DIMENSIONS AT INTERIOR WALLS TO FACE OF FINISH (5/8" GWB ASSUMED AT EA. SIDE OF WALL), U.N.O.
- ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.

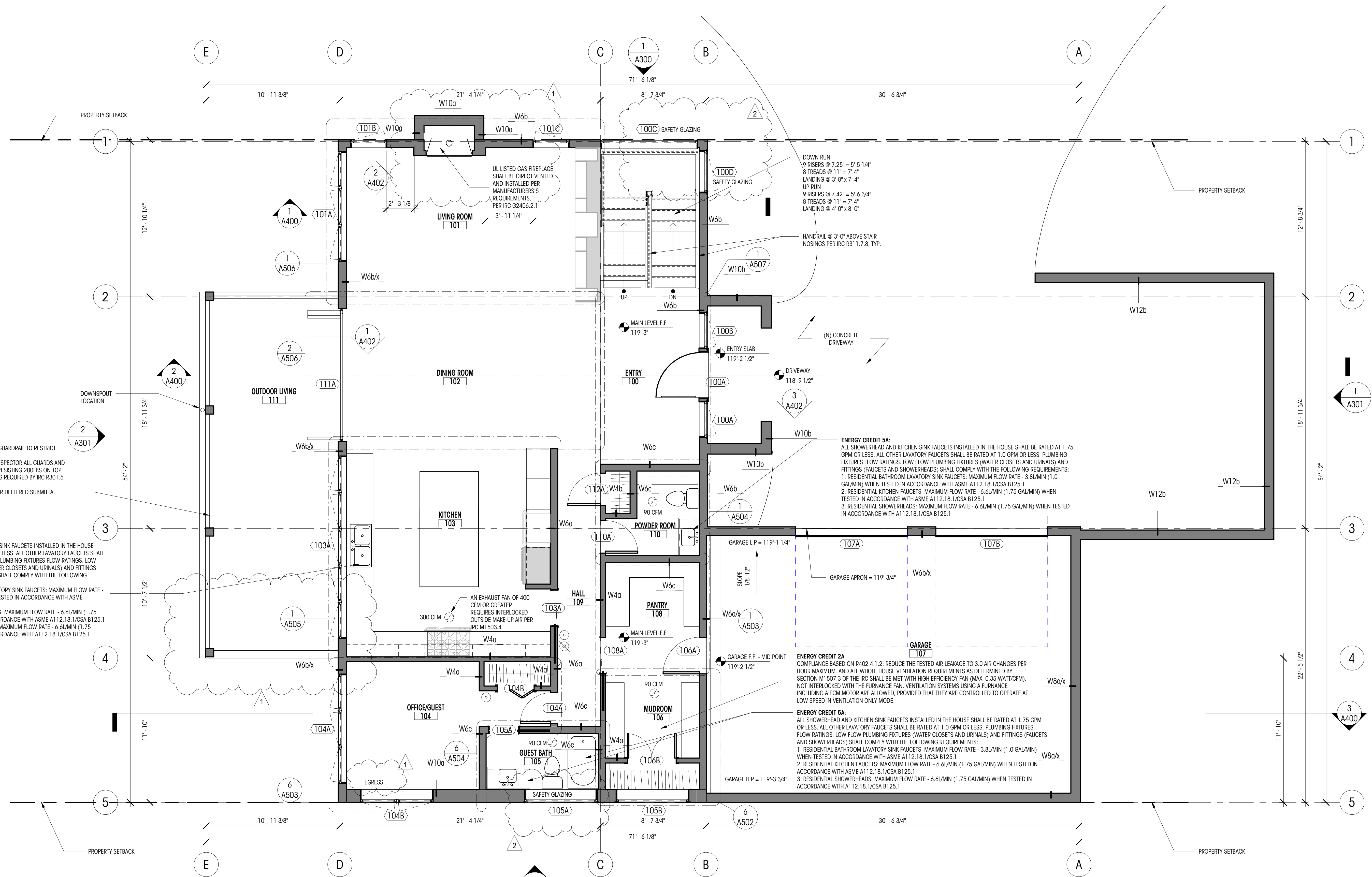
WHOLE HOUSE VENTILATION CALCS

PROPOSED CONDITIONED SF = 4,964 SF
NUMBER OF BEDROOMS = 6
AIRFLOW IN CFM REQUIRED FOR CONTINUOUS VENTILATION = 125 CFM
RUN TIME PERCENTAGE IN EACH 4 HOUR SEGMENT = 25 %
FACTOR = 4
CALCULATION 120 CFM X 4 = 480 CFM

2015 IRC SECTION M1507, WA AMENDED 403.8.1 & 403.8.5.1 - INTERMITTENT WHOLE HOUSE VENTILATION
PER IRC TABLES M1507.3.3(1)(2) A 25% RUN-TIME IN EACH 4-HOUR SEGMENT REQUIRES A 480 CFM FAN(S) TO BE PROVIDED FOR THE REQUIRED WHOLE-HOUSE VENTILATION. THIS VENTILATION REQUIREMENT WILL BE HANDLED BY A BALANCED VENTILATION SYSTEM IN CONJUNCTION WITH FORCED AIR UNIT. SEE WA STATE VENTILATION NOTES SECTION 1507.3.5.1 ON SHEET A001 REGARDING VENTILATION REQUIREMENTS BASED INTEGRATED WITH A FORCED AIR UNIT.
*OUTDOOR AIR INLET DUCT TO BE FIELD LOCATED WITH HVAC SUBCONTRACTOR IN CONJUNCTION WITH PLACING EXHAUST DUCTS IN ORDER TO AVOID CONFLICT.

ENERGY CREDITS

2a	AIR LEAKAGE CONTROL & EFFICIENT VENTILATION: COMPLIANCE BASED ON R402.4.1.2.	0.5
3a	HIGH EFFICIENCY HVAC EQUIPMENT: GAS, PROPANE OR OIL FIRE FURNACE WITH MIN. AFUE OF 94% OR GAS, PROPANE OR OIL FIRE BOILER WITH MIN. AFUE OF 92%	1.0
5a	EFFICIENT WATER HEATING: ALL SHOWERHEAD & KITCHEN FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM.	0.5
5c	GAS WATER HEATING SYSTEM W/ A MINIMUM EF OF 0.91	1.5
TOTAL		3.5



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

LEGEND

- 200A WINDOW ID
- 100A DOOR ID
- 100A FINISH ID
- SMOKE DETECTOR
- ⊗ SMOKE/CARBON MONOXIDE DETECTOR
- FAN - 100 CFM U.N.O.
- ELEVATION DATUM
- GRIDLINE
- NEW WALL
- WALL TO REMAIN
- TO BE REMOVED
- 1-HOUR RATED ASSEMBLY

NOTES

1. ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING AT EXT. FACE OF WALL AND TO CENTERLINE OF FRAMING AT INT. FACE OF WALL, U.N.O.
2. ALL DIMENSIONS AT INTERIOR WALLS TO FACE OF FINISH (5/8" GWB ASSUMED AT EA. SIDE OF WALL), U.N.O.
3. ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.

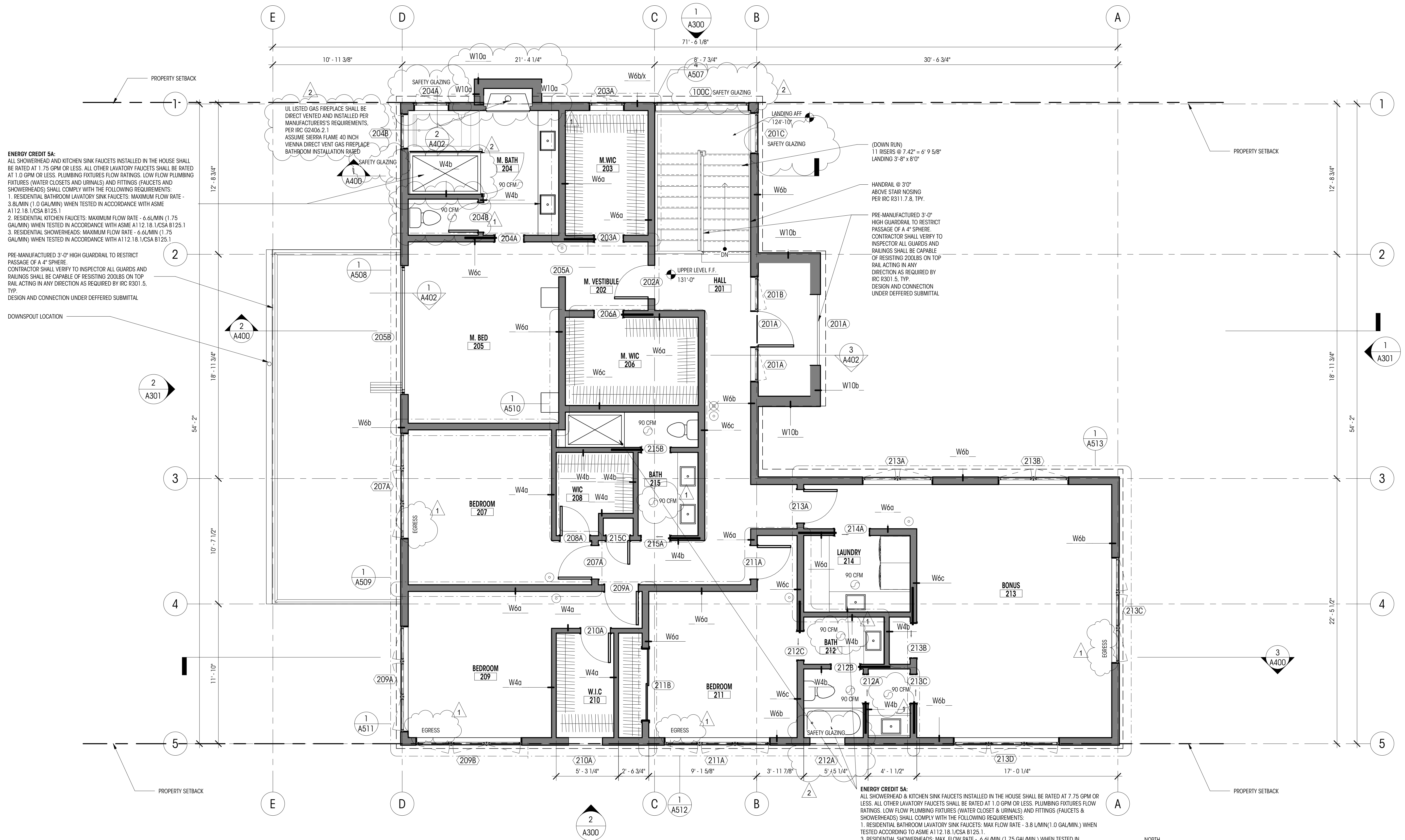
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CALCULATION 120 CFM x 4 = **480 CFM**

2015 IRC SECTION M1507, WA AMENDED 403.8.1 & 403.8.5.1 - INTERMITTENT WHOLE HOUSE VENTILATION
 PER IRC TABLES M1507.3.3(1)(2) A 25% RUN-TIME IN EACH 4-HOUR SEGMENT REQUIRES A 480 CFM FAN(S) TO BE PROVIDED FOR THE REQUIRED WHOLE-HOUSE VENTILATION. THIS VENTILATION REQUIREMENT WILL BE HANDLED BY A BALANCED VENTILATION SYSTEM IN CONJUNCTION WITH FORCED AIR UNIT. SEE WA STATE VENTILATION NOTES SECTION 1507.3.5.1 ON SHEET A001 REGARDING VENTILATION REQUIREMENTS BASED INTEGRATED WITH A FORCED AIR UNIT.
 *OUTDOOR AIR INLET DUCT TO BE FIELD LOCATED WITH HVAC SUBCONTRACTOR IN CONJUNCTION WITH PLACING EXHAUST DUCTS IN ORDER TO AVOID CONFLICT.

ENERGY CREDITS

2a	AIR LEAKAGE CONTROL & EFFICIENT VENTILATION: COMPLIANCE BASED ON R402.4.1.2.	0.5
3a	HIGH EFFICIENCY HVAC EQUIPMENT: GAS, PROPANE OR OIL FIRE FURNANCE WITH MIN. AFUE OF 94% OR GAS, PROPANE OR OIL FIRE BOILER WITH MIN. AFUE OF 92%	1.0
5a	EFFICIENT WATER HEATING: ALL SHOWERHEAD & KITCHEN FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM.	0.5
5c	GAS WATER HEATING SYSTEM W/ A MINIMUM EF OF 0.91	1.5
TOTAL		3.5



ENERGY CREDIT 5A:
ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS. PLUMBING FIXTURES FLOW RATINGS, LOW FLOW PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
1. RESIDENTIAL BATHROOM LAVATORY SINK FAUCETS: MAXIMUM FLOW RATE - 3.8 L/MIN (1.0 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1
2. RESIDENTIAL KITCHEN FAUCETS: MAXIMUM FLOW RATE - 6.6 L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH ASME A112.18.1/CSA B125.1
3. RESIDENTIAL SHOWERHEADS: MAXIMUM FLOW RATE - 6.6 L/MIN (1.75 GAL/MIN) WHEN TESTED IN ACCORDANCE WITH A112.18.1/CSA B125.1

PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4' SPHERE. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200LBS ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL

DOWNSPOUT LOCATION

(DOWN RUN) 11 RISERS @ 7.42" = 6' 9 5/8" LANDING 3'-8" x 8'-0"

HANDRAIL @ 3"0" ABOVE STAIR NOSING PER IRC R311.7.8, TYP.

PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4' SPHERE. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200LBS ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL

1 PROPOSED UPPER LEVEL FLOOR PLAN
1/4" = 1'-0"

LEGEND

(200A) WINDOW ID	EL= 148.5' (+0'-0") ELEVATION DATUM
(100A) DOOR ID	MAIN LEVEL FIN. FLR.
(100A) FINISH ID	
○ SMOKE DETECTOR	○ GRIDLINE
⊗ SMOKE/CARBON MONOXIDE DETECTOR	— NEW WALL
⊙ FAN - 100 CFM U.N.O.	▨ WALL TO REMAIN
	--- TO BE REMOVED
	— 1-HOUR RATED ASSEMBLY

NOTES

- ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING AT EXT. FACE OF WALL AND TO CENTERLINE OF FRAMING AT INT. FACE OF WALL, U.N.O.
- ALL DIMENSIONS AT INTERIOR WALLS TO FACE OF FINISH (5/8" GWB ASSUMED AT EA. SIDE OF WALL), U.N.O.
- ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.

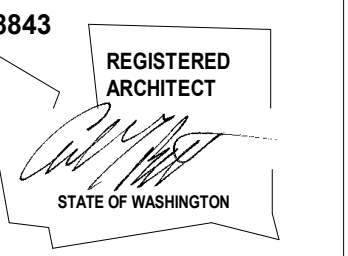
WHOLE HOUSE VENTILATION CALCS

PROPOSED CONDITIONED SF = 4,964 SF
 NUMBER OF BEDROOMS = 6
 AIRFLOW IN CFM REQUIRED FOR CONTINUOUS VENTILATION = 125 CFM
 RUN TIME PERCENTAGE IN EACH 4 HOUR SEGMENT = 25 %
 FACTOR = 4
CALCULATION 120 CFM x 4 = **480 CFM**

2015 IRC SECTION M1507, WA AMENDED 403.8.1 & 403.8.5.1 - INTERMITTENT WHOLE HOUSE VENTILATION
 PER IRC TABLES M1507.3.3(1)(2) A 25% RUN-TIME IN EACH 4-HOUR SEGMENT REQUIRES A 480 CFM FAN(S) TO BE PROVIDED FOR THE REQUIRED WHOLE-HOUSE VENTILATION. THIS VENTILATION REQUIREMENT WILL BE HANDLED BY A BALANCED VENTILATION SYSTEM IN CONJUNCTION WITH FORCED AIR UNIT. SEE WA STATE VENTILATION NOTES SECTION 1507.3.5.1 ON SHEET A001 REGARDING VENTILATION REQUIREMENTS BASED INTEGRATED WITH A FORCED AIR UNIT.
 *OUTDOOR AIR INLET DUCT TO BE FIELD LOCATED WITH HVAC SUBCONTRACTOR IN CONJUNCTION WITH PLACING EXHAUST DUCTS IN ORDER TO AVOID CONFLICT.

ENERGY CREDITS

2a	AIR LEAKAGE CONTROL & EFFICIENT VENTILATION: COMPLIANCE BASED ON R402.4.1.2.	0.5
3a	HIGH EFFICIENCY HVAC EQUIPMENT: GAS, PROPANE OR OIL FIRE FURNANCE WITH MIN. AFUE OF 94% OR GAS, PROPANE OR OIL FIRE BOILER WITH MIN. AFUE OF 92%	1.0
5a	EFFICIENT WATER HEATING: ALL SHOWERHEAD & KITCHEN FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM.	0.5
5c	GAS WATER HEATING SYSTEM W/ A MINIMUM EF OF 0.91	1.5
TOTAL		3.5



KAHAN SPEC HOME

8163 WEST MERCER WAY
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PERMIT DOCUMENTS

DATE: 4/30/21

SHEET SIZE: D (24X36)

REVISIONS

NO. DATE:
PlanCheck1 04.30.21

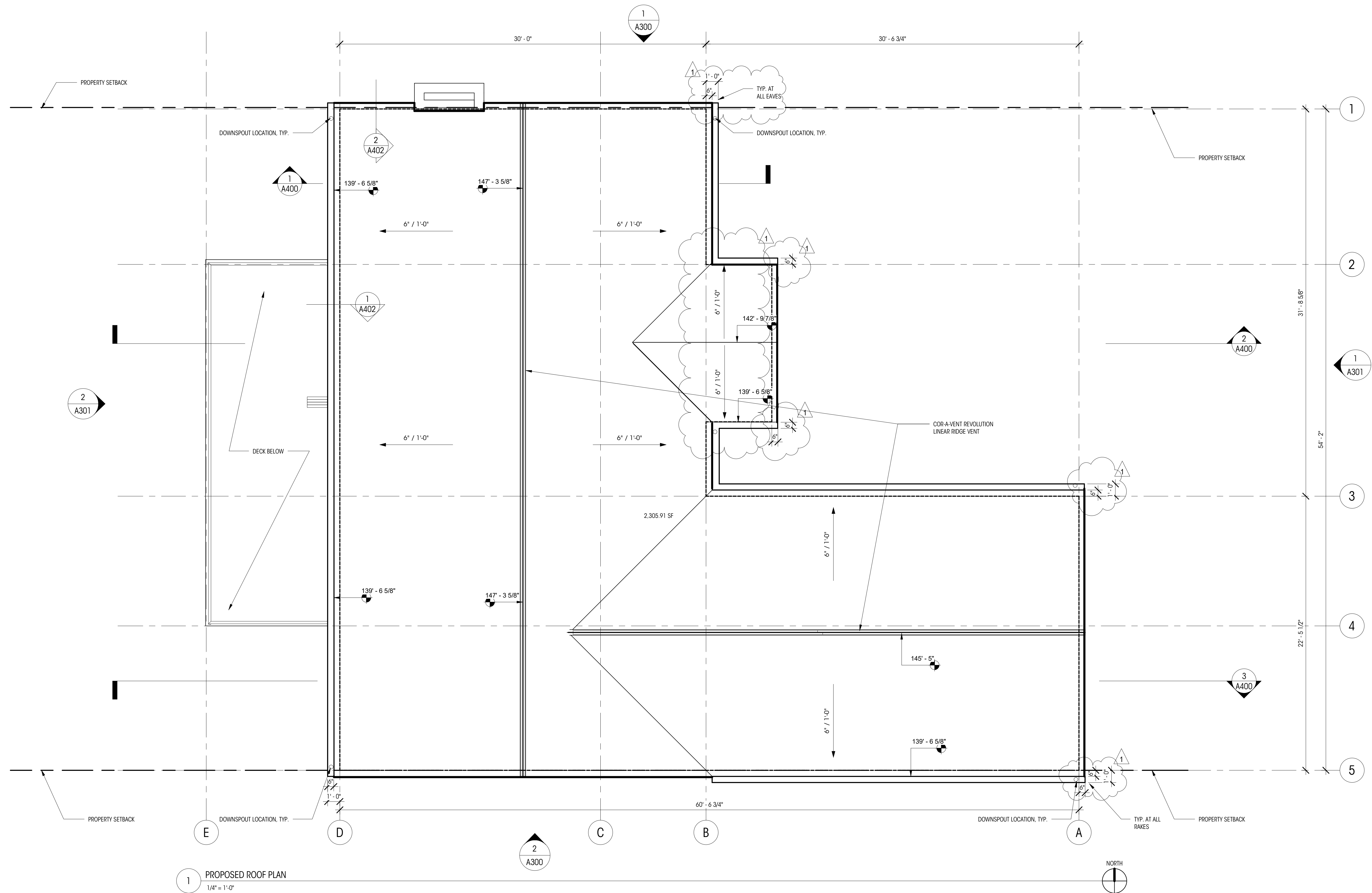
DRAWN BY: MO
CHECKED BY: BM

ROOF PLAN

SCALE: As indicated

A204

DEDICATED
APPROVAL
STAMP SPACE



LEGEND

- 200A WINDOW ID
- 100A DOOR ID
- 100A FINISH ID
- SMOKE DETECTOR
- SMOKE/CARBON MONOXIDE DETECTOR
- FAN - 100 CFM U.N.O.
- EL= 148.5' (+0'-0") MAIN LEVEL FIN. FLR. ELEVATION DATUM
- 0 GRIDLINE
- NEW WALL
- WALL TO REMAIN
- TO BE REMOVED
- 1-HOUR RATED ASSEMBLY

NOTES

1. ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING AT EXT. FACE OF WALL AND TO CENTERLINE OF FRAMING AT INT. FACE OF WALL, U.N.O.
2. ALL DIMENSIONS AT INTERIOR WALLS TO FACE OF FINISH (5/8" GWB ASSUMED AT EA. SIDE OF WALL), U.N.O.
3. ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.

ROOF VENTILATION CALCS

REQUIRED VENTILATION : 1 SF/300 SF OF TOTAL ROOF AREA

TOTAL ATTIC/CONDITIONED AREA = 2306 SF
 REQUIRED VENTILATION = 2500/300 = 7.69 SF = 1107.36 SQ.IN.

1.5" HOLE = 2.335 SQ.IN. ; 1107 SQ.IN./2.335 SQ.IN. = 470 HOLES REQUIRED
 242LF/470 HOLES = 1 HOLE PER 6.17"

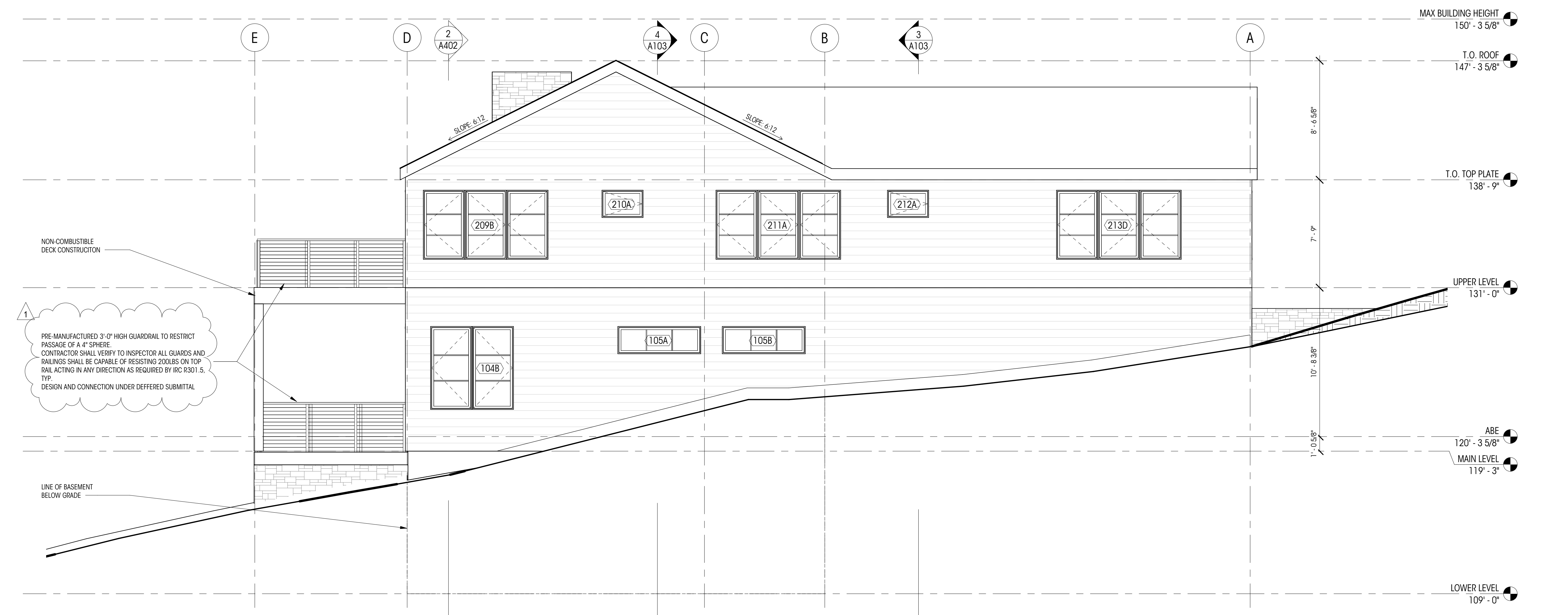
PROPOSED VENTILATION - 1.5" HOLES @ 6" O.C.

EAVE/SOFFIT VENTING:
 PROJECT RIDGES 96.375'
 TOTAL VENTING LINEAR FEET 96.375'
 VENTS @ 12 SQ.IN. / FT NFVA : 96.375' X 12 1156.5 SQ.IN.

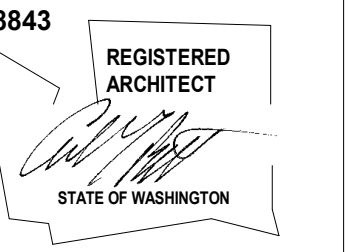
COR-A-VENT REVOLUTION RIDGE VENT PROVIDES 12 SQ.IN. NFVA PER LINEAR FOOT



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



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



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EXTERIOR ELEVATIONS

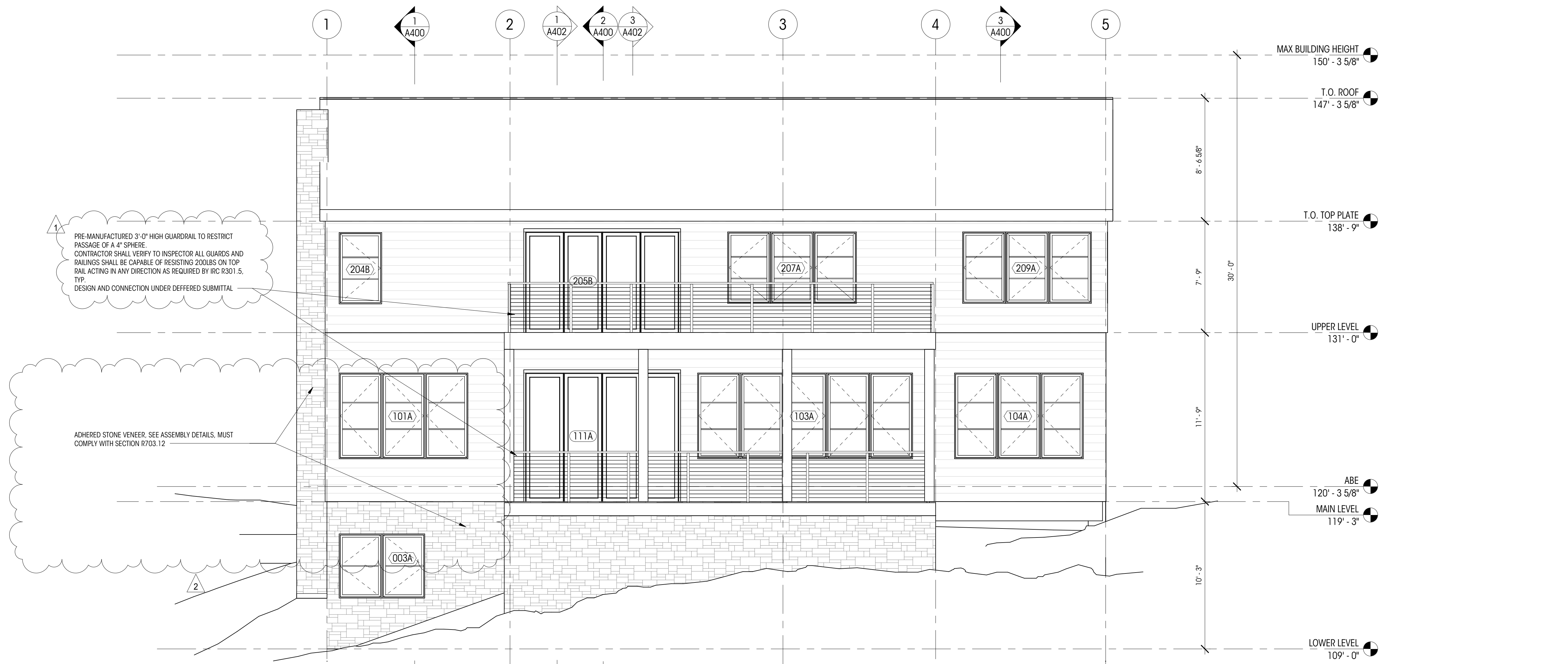
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A301

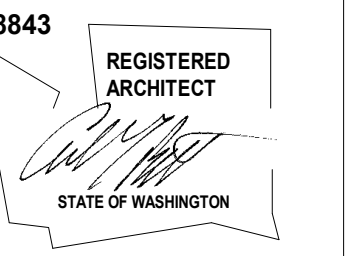
DEDICATED APPROVAL STAMP SPACE



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



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



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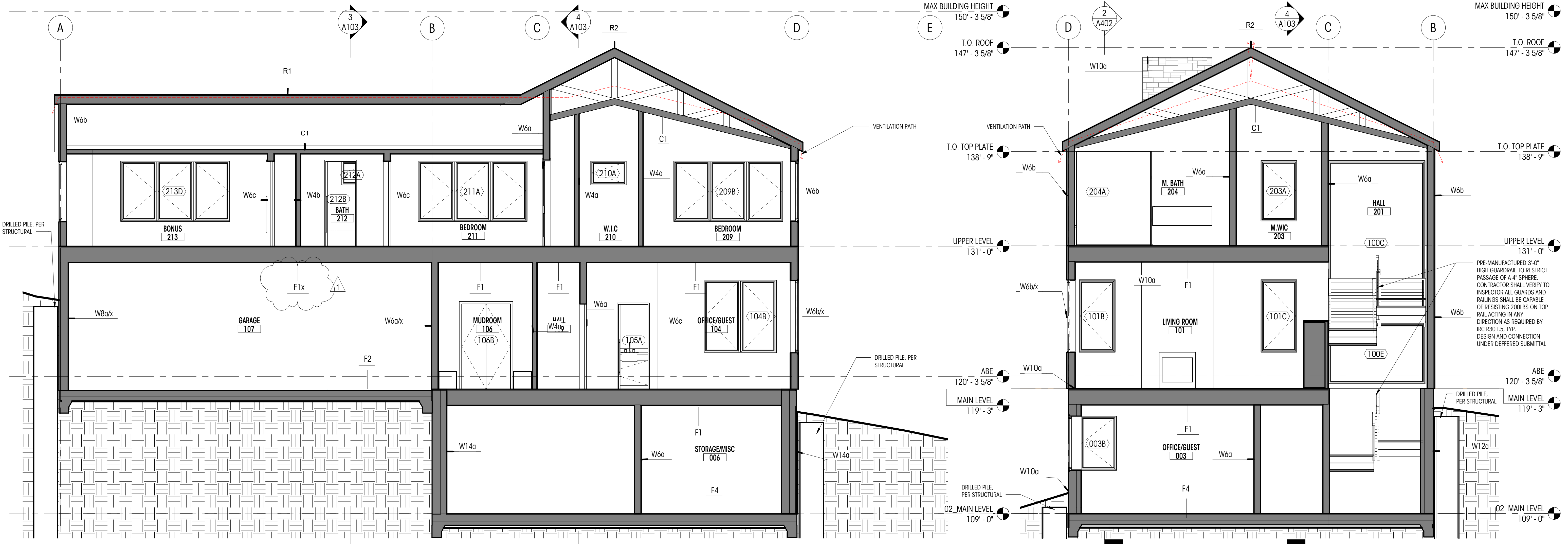
CHECKED BY: BM

BUILDING SECTIONS

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

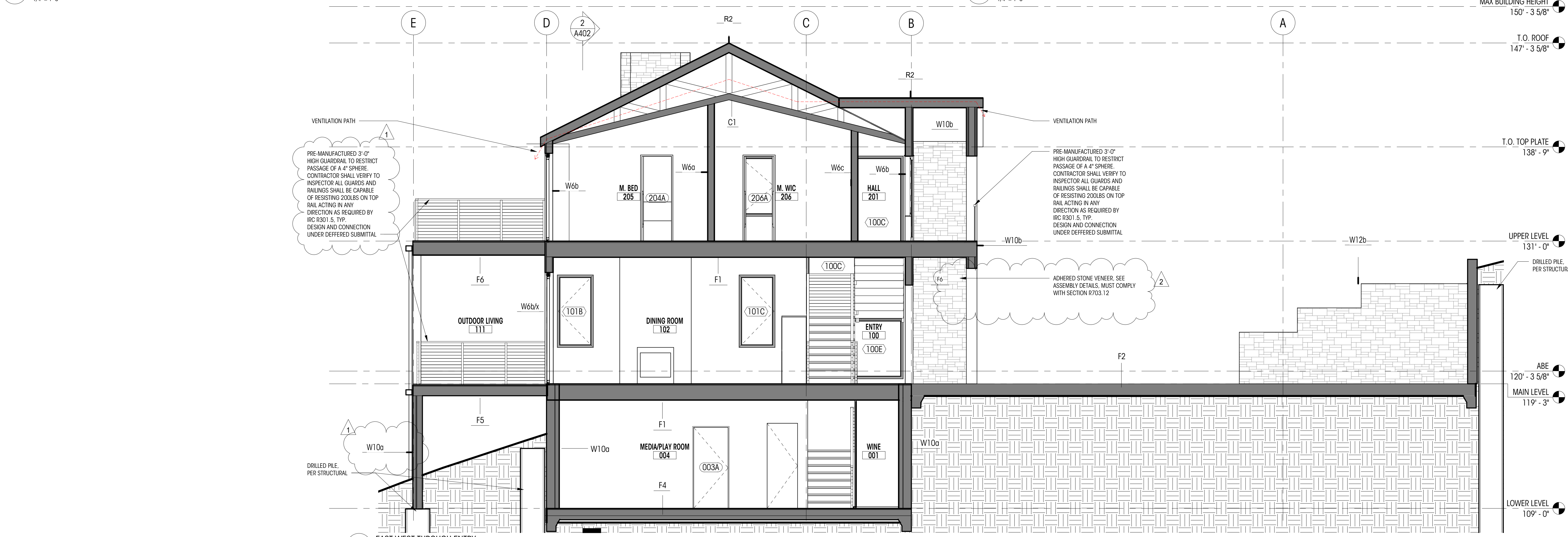
A400

DEDICATED
APPROVAL
STAMP SPACE

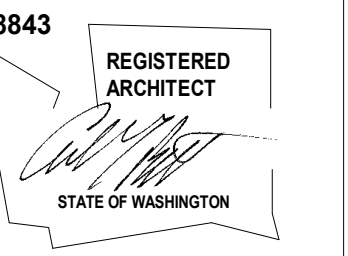


3 EAST WEST SECTION 1
1/4" = 1'-0"

1 EAST WEST THROUGH STAIR
1/4" = 1'-0"



2 EAST WEST THROUGH ENTRY
1/4" = 1'-0"



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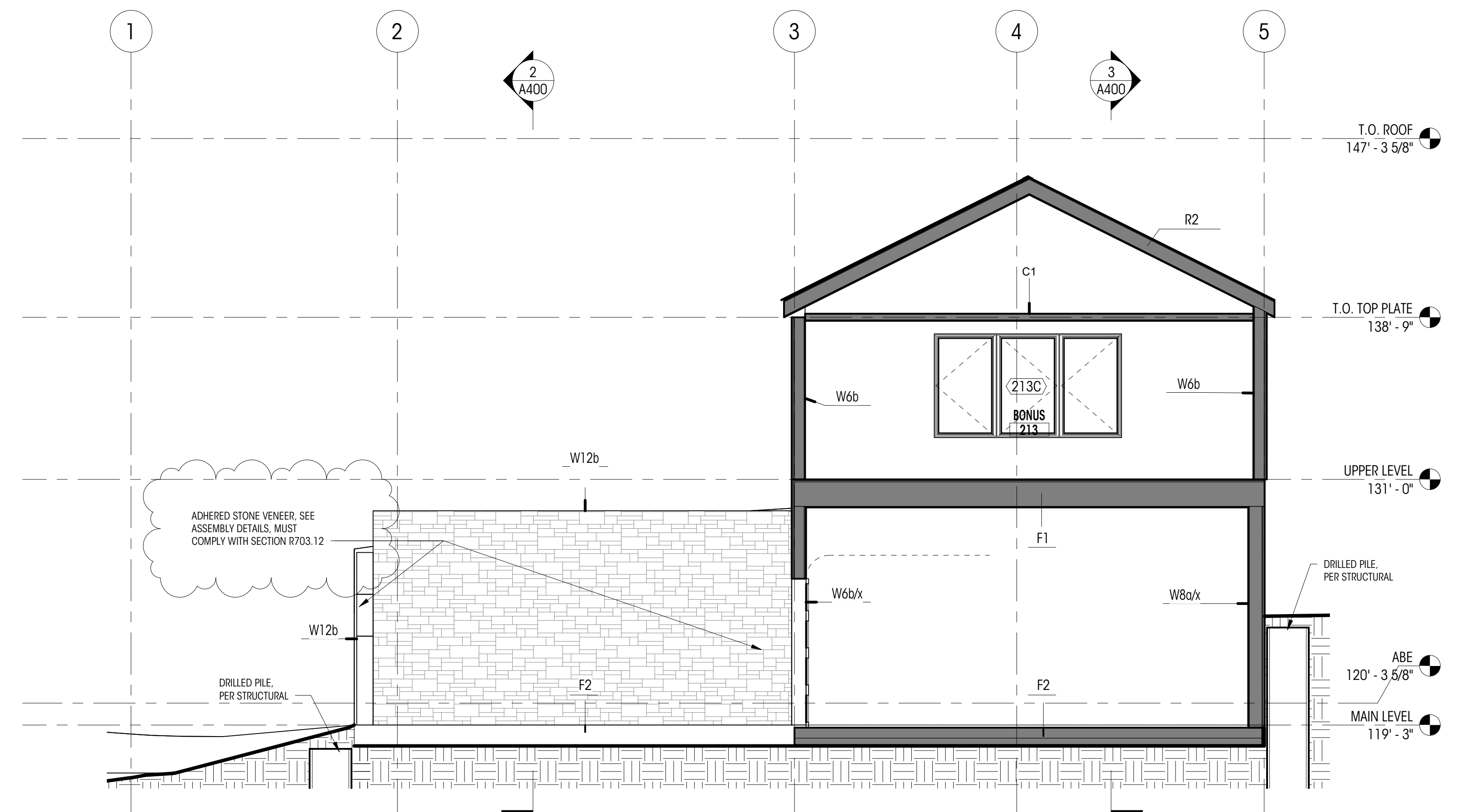
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BUILDING SECTIONS

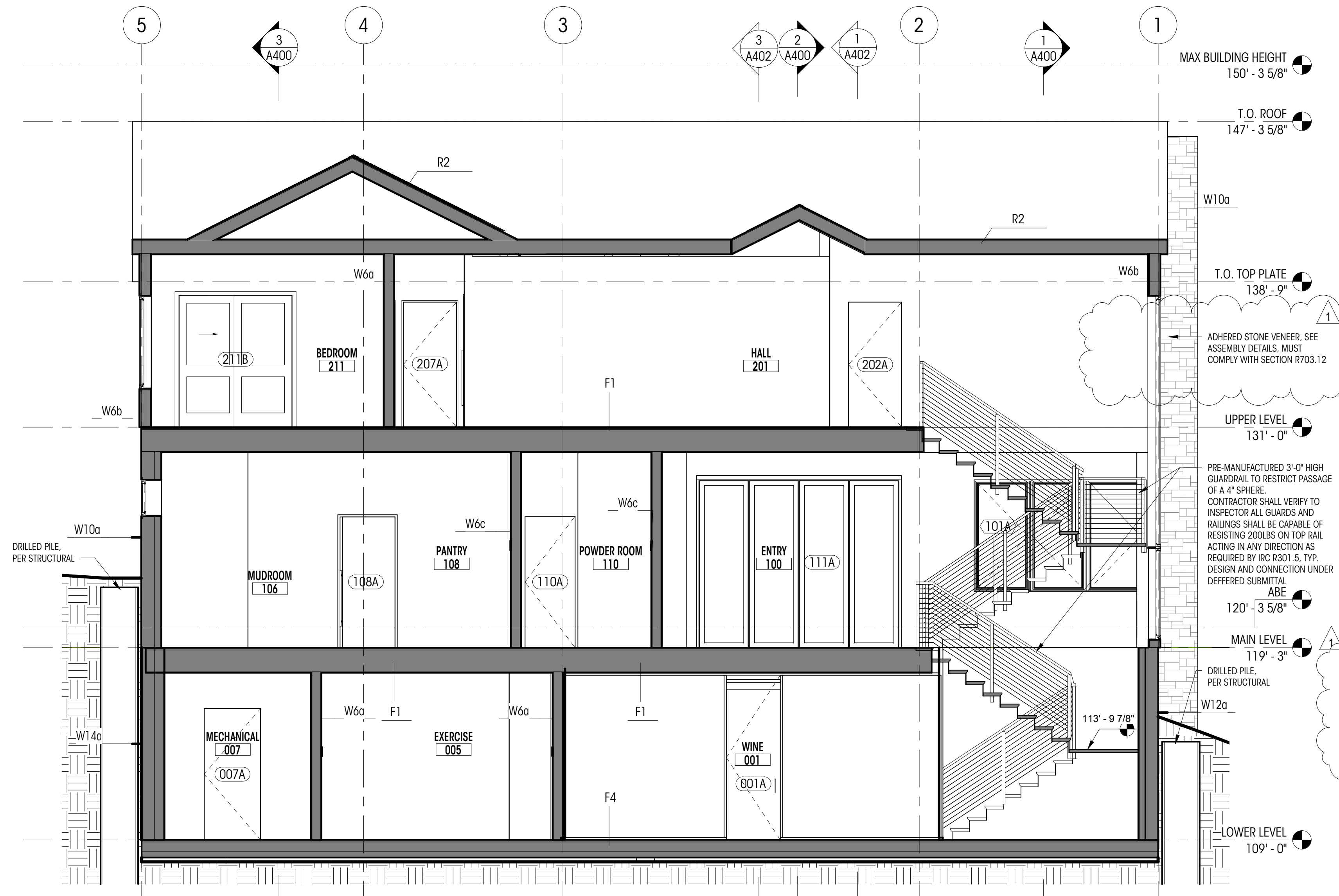
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A401

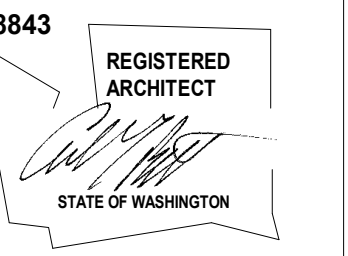
DEDICATED
APPROVAL
STAMP SPACE



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



2 NORTH - SOUTH THROUGH STAIR
1/4" = 1'-0"



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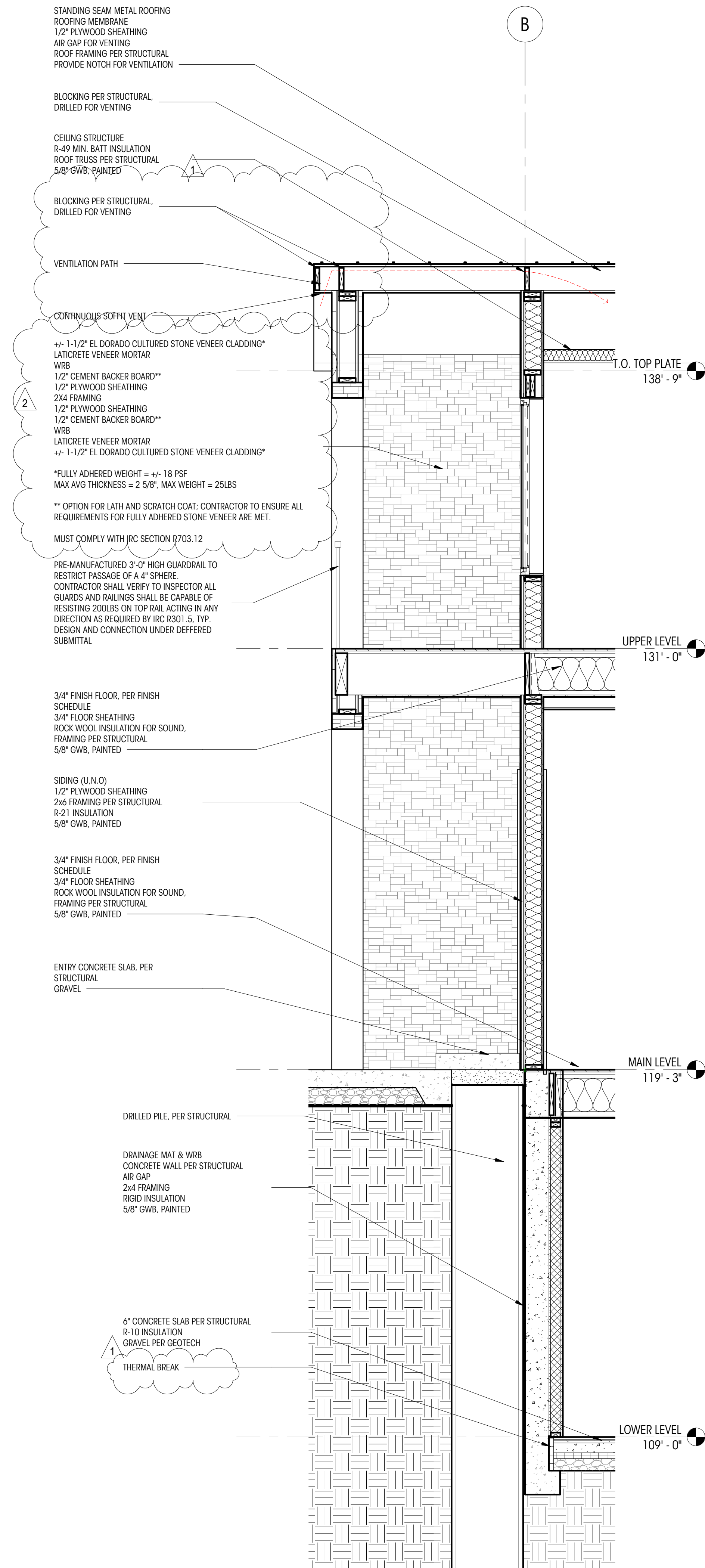
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CHECKED BY: BM

WALL SECTIONS

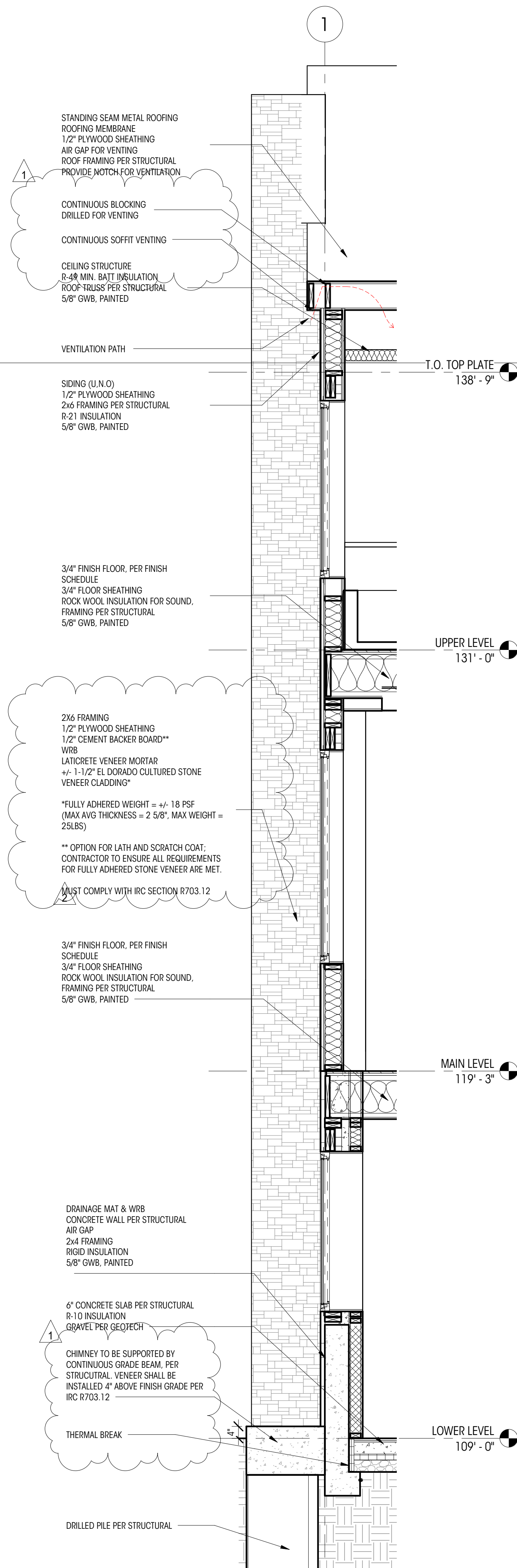
SCALE: 1/2" = 1'-0"

A402

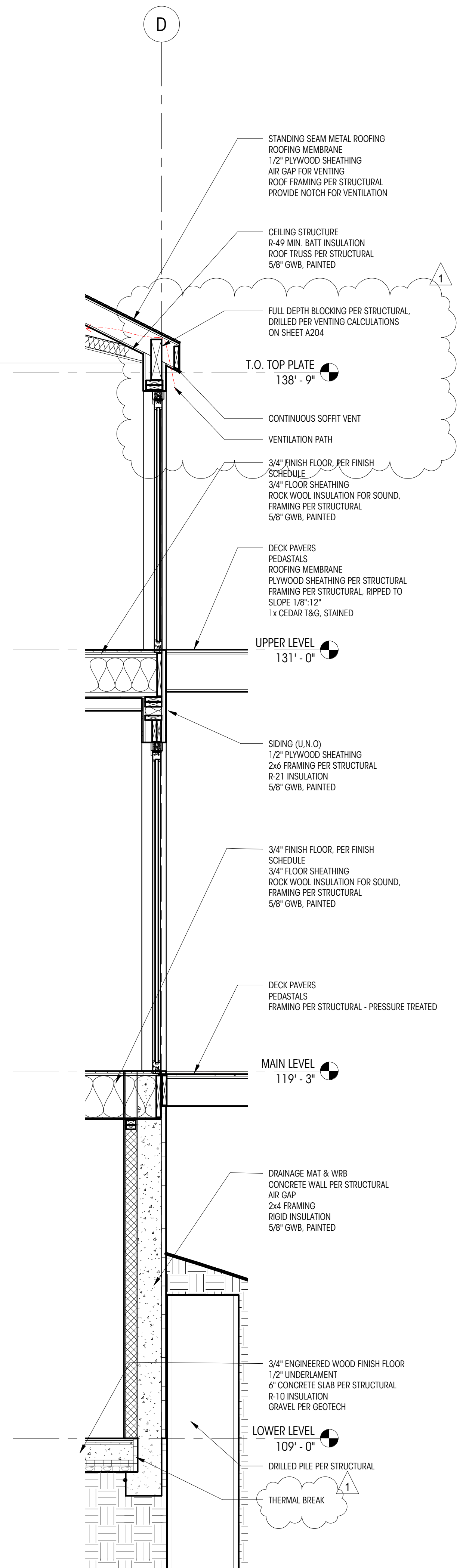
DEDICATED
APPROVAL
STAMP SPACE



3 WALL SECTION @ ENTRY
1/2" = 1'-0"



2 WALL SECTION @ FIREPLACE
1/2" = 1'-0"



1 WALL SECTION @ MASTER BEDROOM
1/2" = 1'-0"

GENERAL NOTES

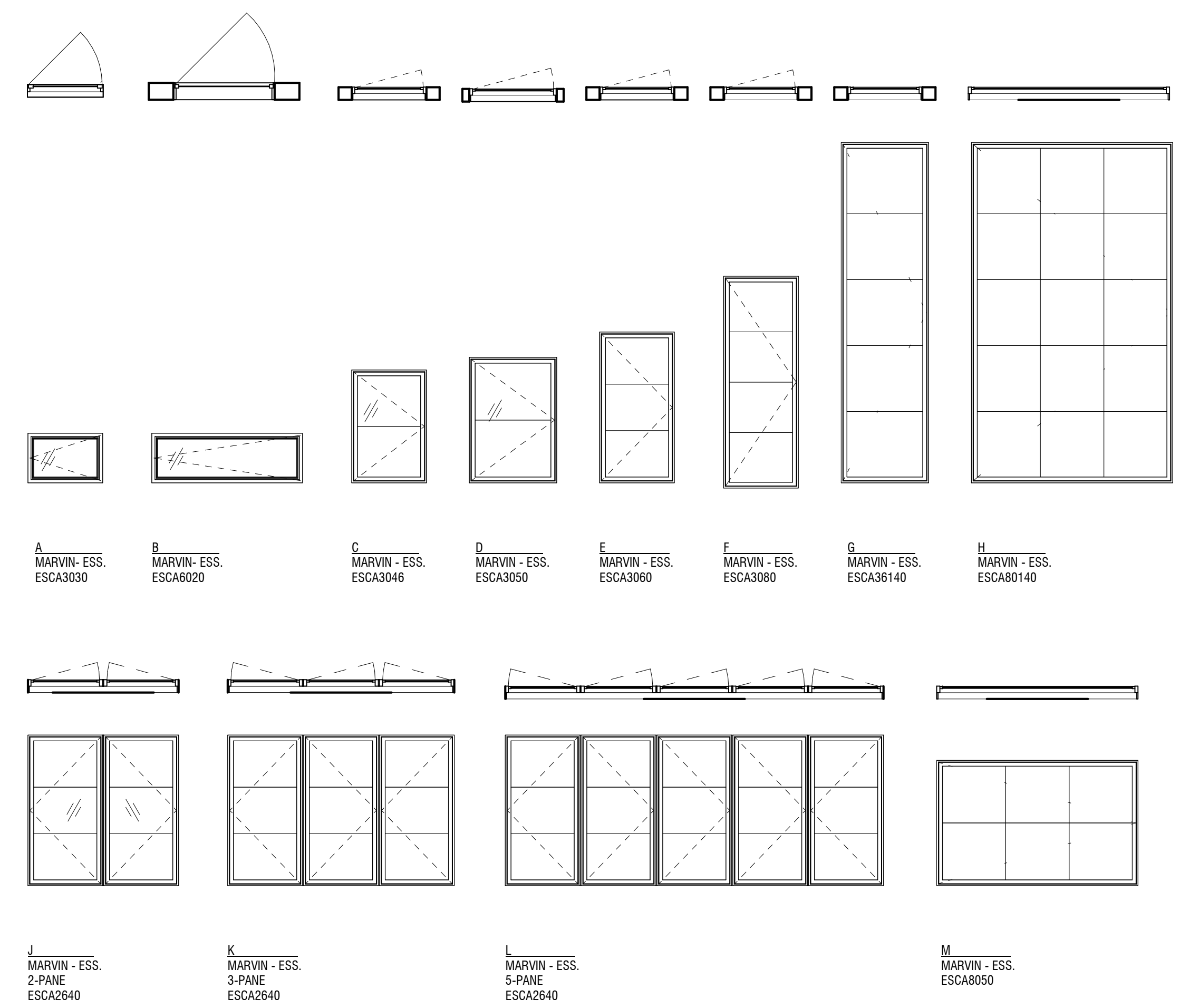
- ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS, R.O. PER CONTRACTOR.
- CONTRACTOR TO VERIFY ALL SIZES AND DIMENSIONS IN FIELD WITH OWNER BEFORE ORDERING.
- ALL NEW WINDOWS TO BE NFRC CERTIFIED.
- ALL WINDOW WALL IS TEMPERED GLASS.
- REFER TO PLANS AND TAGS FOR LOCATION AND SWINGS.
- ALL ELEVATIONS ARE FROM THE EXTERIOR.
- ALL NEW VERTICAL FENESTRATION U-VALUE TO MEET ENERGY COMPLIANCE GUIDELINES PER IRC R310.2.1 ALL EGRESS OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SF. NET CLEAR HEIGHT OPENING SHALL NOT BE LESS THAN 24" AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20". THE WINDOW SILL SHALL HAVE HEIGHT OF NOT MORE THAN 44" ABOVE THE FLOOR PER IRC R310.2.1
- PER IRC R308.4.3, GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL SHALL BE TEMPERED GLASS/SAFETY GLAZING IF IT MEETS ALL OF THE FOLLOWING CONDITIONS:
 - THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SF.
 - THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR.
 - THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR, AND
 - ONE OR MORE WALKING SURFACES ARE WITHING 36". MEASURE HORIZONTALLY IN A STRAIGHT LINE OF THE GLAZING.
- PER IRC R308.4.2 GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR SHALL BE TEMPERED GLASS/SAFETY GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE FLOOR OR WALKING SURFACE IF:
 - THE GLAZING IS WITHIN 24" OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN THE CLOSED POSITION.
 - WHERE THE GLAZING ON A WALL LESS THAN 180 DEGREES FROM THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24" OF THE HINGE SIDE ON AN INSWING DOOR.

SPECIFIC NOTES

- EGRESS
- TEMPERED GLASS/SAFETY GLAZING
- SILLS FLUSH WITH COUNTERTOP / TUBDECK

WINDOW SCHEDULE

PLAN ID	TYPE	WIDTH (ft)	HEIGHT (ft)	HEAD HT	UNIT AREA (sf)	U VALUE	UA	NOTES
003A	J	5'-11 1/2"	4'-5 1/2"	8'-0"	27 SF	0.3	8 SF	1
003B	C	2'-11 1/2"	4'-5 1/2"	8'-0"	13 SF	0.3	4 SF	
100A	F	2'-11 1/2"	8'-4 1/2"	8'-4 1/2"	25 SF	0.3	7 SF	2
100B	F	2'-11 1/2"	8'-4 1/2"	8'-4 1/2"	25 SF	0.3	7 SF	2
100C	H	7'-11 1/2"	13'-5 1/2"	7'-0"	107 SF	0.3	32 SF	2
100D	D	3'-5 1/2"	4'-11 1/2"	5'-3 1/2"	17 SF	0.3	5 SF	2
100E	M	7'-11 1/2"	4'-11 1/2"	15'-7 1/2"	39 SF	0.3	12 SF	2
101A	K	8'-11 1/2"	5'-11 1/2"	8'-11 1/4"	53 SF	0.3	16 SF	
101B	E	2'-11 1/2"	5'-11 1/2"	8'-11 1/2"	18 SF	0.3	5 SF	
101C	E	2'-11 1/2"	5'-11 1/2"	8'-11 1/2"	18 SF	0.3	5 SF	
103A	L	14'-11 1/2"	5'-11 1/2"	8'-11 1/4"	89 SF	0.3	27 SF	3
104A	K	8'-11 1/2"	5'-11 1/2"	8'-11 1/4"	53 SF	0.3	16 SF	
104B	J	5'-11 1/2"	5'-11 1/2"	8'-11 1/2"	36 SF	0.3	11 SF	1
105A	B	5'-11 1/2"	1'-11 1/2"	8'-11 1/2"	12 SF	0.3	4 SF	2
105B	B	5'-11 1/2"	1'-11 1/2"	8'-11 1/2"	12 SF	0.3	4 SF	2
201A	D	2'-11 1/2"	4'-11 1/2"	7'-0"	15 SF	0.3	4 SF	2
201B	D	2'-11 1/2"	4'-11 1/2"	7'-0"	15 SF	0.3	4 SF	2
201C	G	3'-5 1/2"	13'-5 1/2"	7'-0"	47 SF	0.3	14 SF	2
203A	E	2'-11 1/2"	4'-11 1/2"	7'-0"	15 SF	0.3	4 SF	2
204A	E	2'-11 1/2"	4'-11 1/2"	6'-11 1/2"	15 SF	0.3	4 SF	2,3
204B	E	2'-11 1/2"	4'-11 1/2"	6'-11 1/2"	15 SF	0.3	4 SF	2,3
207A	K	8'-11 1/2"	4'-11 1/2"	7'-0"	44 SF	0.3	13 SF	1
209A	K	8'-11 1/2"	4'-11 1/2"	7'-0"	44 SF	0.3	13 SF	1
209B	K	8'-11 1/2"	4'-11 1/2"	7'-0"	44 SF	0.3	13 SF	1
210A	A	2'-11 1/2"	1'-11 1/2"	7'-0"	6 SF	0.3	2 SF	
211A	K	8'-11 1/2"	4'-11 1/2"	7'-0"	44 SF	0.3	13 SF	1
212A	A	2'-11 1/2"	1'-11 1/2"	7'-0"	6 SF	0.3	2 SF	2
213A	J	5'-11 1/2"	4'-11 1/2"	7'-0"	30 SF	0.3	9 SF	
213B	J	5'-11 1/2"	4'-11 1/2"	7'-0"	30 SF	0.3	9 SF	
213C	K	8'-11 1/2"	4'-11 1/2"	6'-11 1/2"	44 SF	0.3	13 SF	1
213D	K	8'-11 1/2"	4'-11 1/2"	7'-0"	44 SF	0.3	13 SF	



WINDOW TYPES
1/4" = 1'-0"

DOOR SCHEDULE

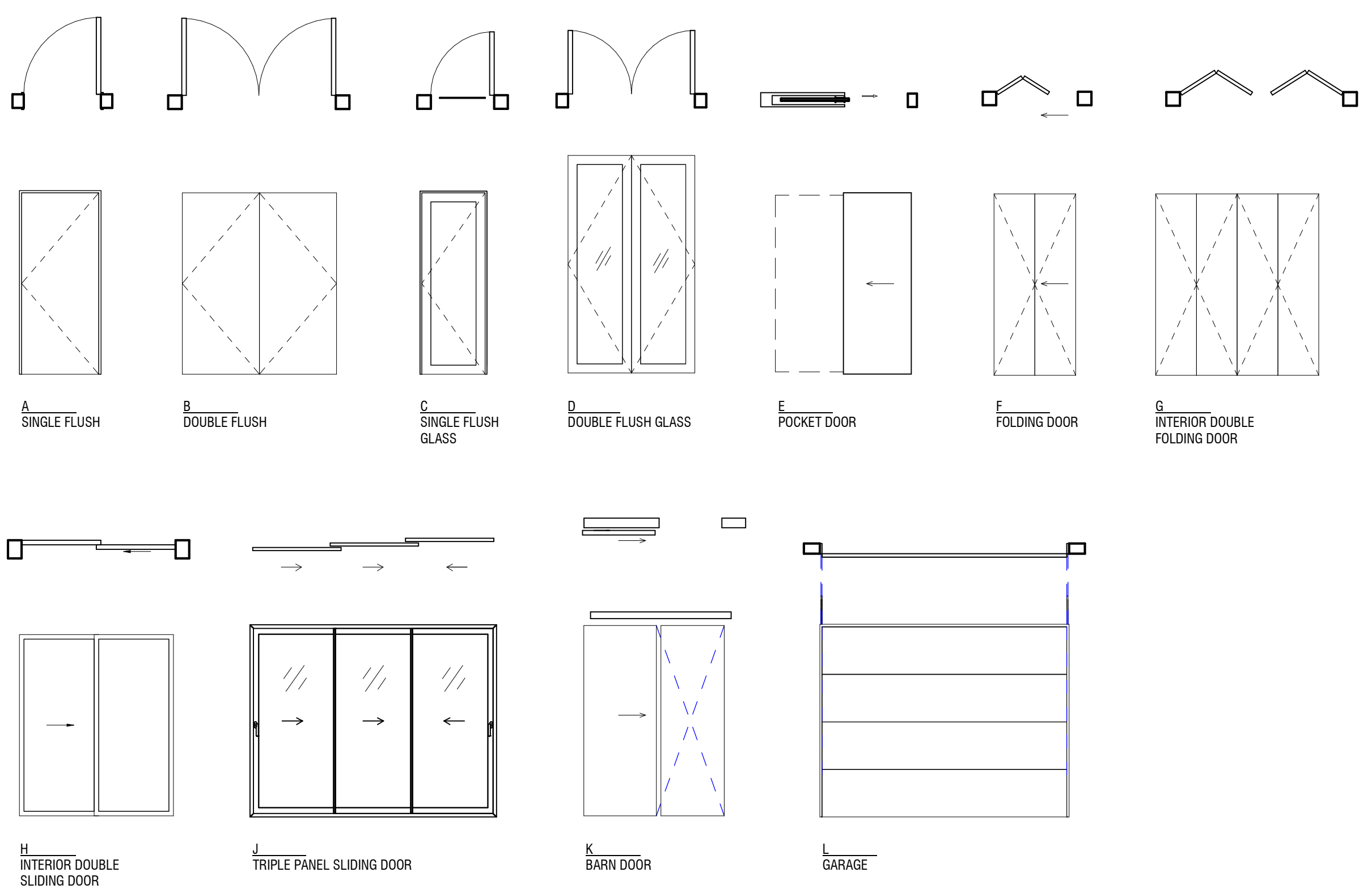
PLAN ID	TYPE	WIDTH (ft)	HEIGHT (ft)	AREA (sf)	U VALUE	UA	NOTES
001A		3'-5 1/2"	7'-9"	27 SF			
002A	A	2'-10 1/2"	8'-9 3/8"	25 SF			
003A	A	2'-10"	6'-8"	19 SF			
003B	A	2'-3"	7'-0"	16 SF			
005A	C	3'-0"	8'-10"	27 SF			
006A	A	3'-0"	7'-0"	21 SF			
007A	A	3'-0"	7'-0"	21 SF			
100A		3'-8"	8'-2"	30 SF	0.3	9 SF	1,2
103A	E	3'-0"	7'-0"	21 SF			
104A	A	2'-6"	7'-0"	18 SF			
104B	F	3'-0"	6'-8"	20 SF			
105A	E	2'-6"	7'-0"	18 SF			
106A	A	3'-0"	7'-0"	21 SF			
106B	B	4'-0"	7'-0"	28 SF			
107A		9'-2"	7'-0"	64 SF	0.3	19 SF	4
107B		9'-2"	7'-0"	64 SF	0.3	19 SF	4
108A	E	3'-0"	7'-0"	21 SF			
110A	A	2'-8"	7'-0"	19 SF			
111A	J	10'-11"	8'-11 1/4"	98 SF	0.3	29 SF	1,2
112A	A	2'-8"	7'-0"	19 SF			
201A	M	6'-0"	7'-0"	42 SF			
201A	C	3'-0"	7'-0"	21 SF	0.3	6 SF	1,2
201B		5/8"	7'-9"	0 SF			
202A	A	2'-10"	6'-8"	19 SF			
203A	E	2'-6"	7'-0"	18 SF			
204A	E	2'-6"	7'-0"	18 SF			
204B	A	2'-6"	7'-0"	18 SF			
205B	J	10'-11"	7'-0"	76 SF	0.3	23 SF	1,2
206A	E	2'-6"	7'-0"	18 SF			
207A	A	2'-10"	6'-8"	19 SF			
208A	A	2'-6"	7'-0"	18 SF			
209A	A	2'-10"	6'-8"	19 SF			
210A	A	2'-6"	7'-0"	18 SF			
211A	A	2'-10"	6'-8"	19 SF			
211B	H	6'-0"	7'-0"	42 SF			
212A	E	2'-6"	7'-0"	18 SF			
212B	E	2'-6"	7'-0"	18 SF			
212C	E	2'-6"	7'-0"	18 SF			
213A	A	2'-10"	6'-8"	19 SF			
213B	E	3'-0"	7'-0"	21 SF			
213C	E	2'-6"	7'-0"	18 SF			
214A	E	3'-0"	7'-0"	21 SF			
215A	E	2'-6"	7'-0"	18 SF			
215B	E	2'-6"	7'-0"	18 SF			
215C	A	2'-0"	7'-0"	14 SF			

GENERAL NOTES

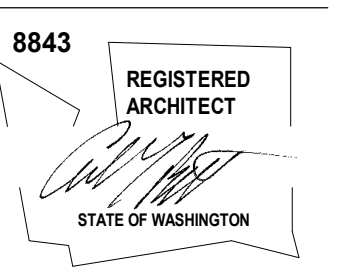
- ALL NEW DOORS TO BE NFRC CERTIFIED
- ALL NEW VERTICAL FENESTRATION U-VALUE TO MEET ENERGY COMPLIANCE GUIDELINES
- ALL DOORS TO BE SOLID CORE WOOD VENEER FLAT PANELS UNO
- PER IRC R308.4.1 GLAZING IN FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BIFOLD DOORS TO BE TEMPERED GLASS/SAFETY GLAZING

SPECIFIC NOTES

- TEMPERED GLASS/SAFETY GLAZING
- EGRESS
- 20-MINUTE RATED W/S-SELF-CLOSURE OVERHEAD DOOR
- ENGLISH 1/2" REED GLASS
- ACCESS DOOR TO UNDER STAIR



DOOR TYPES
1/4" = 1'-0"



PERMIT DOCUMENTS

DATE: 4/30/21

SHEET SIZE: D (24x36)

REVISIONS

NO. DATE:
PlanCheck2 07.21.21

DRAWN BY: MO
CHECKED BY: BM

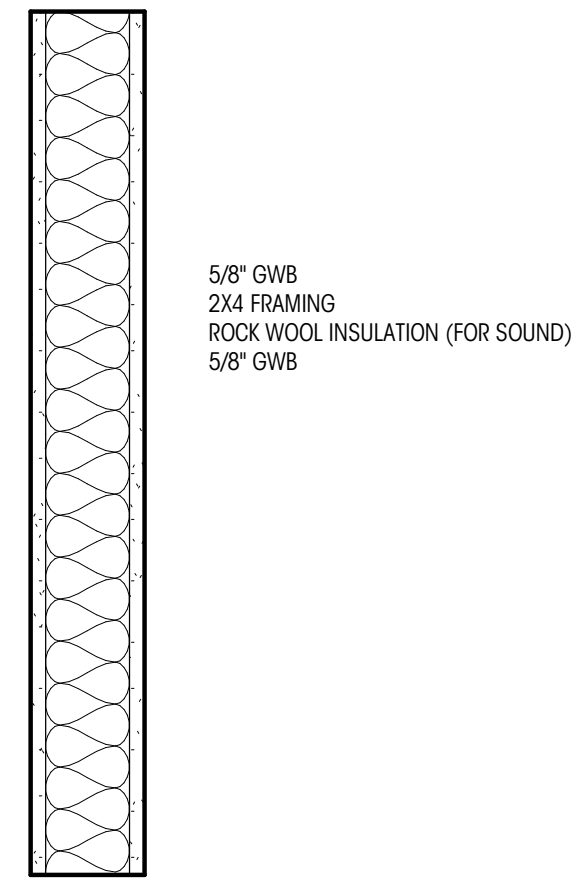
WINDOW / DOOR SCHEDULES

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

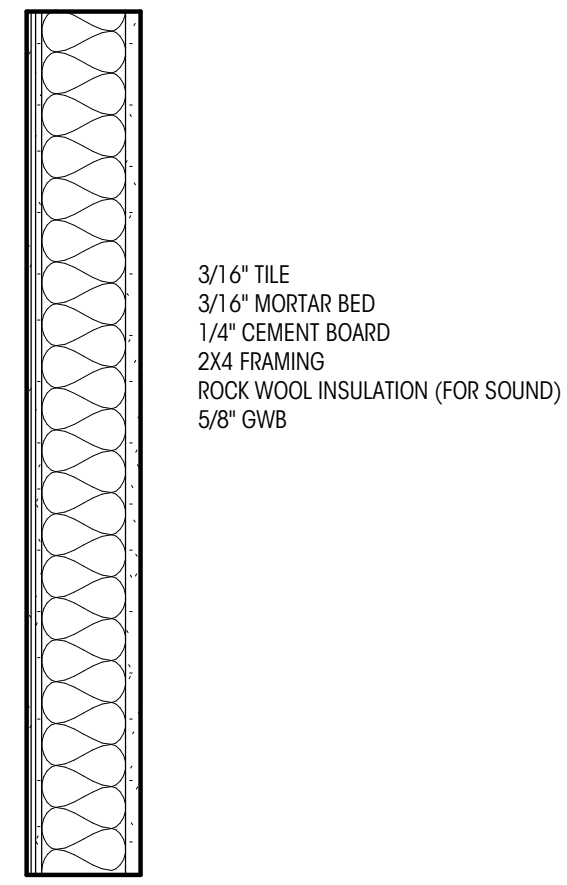
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DEDICATED APPROVAL STAMP SPACE

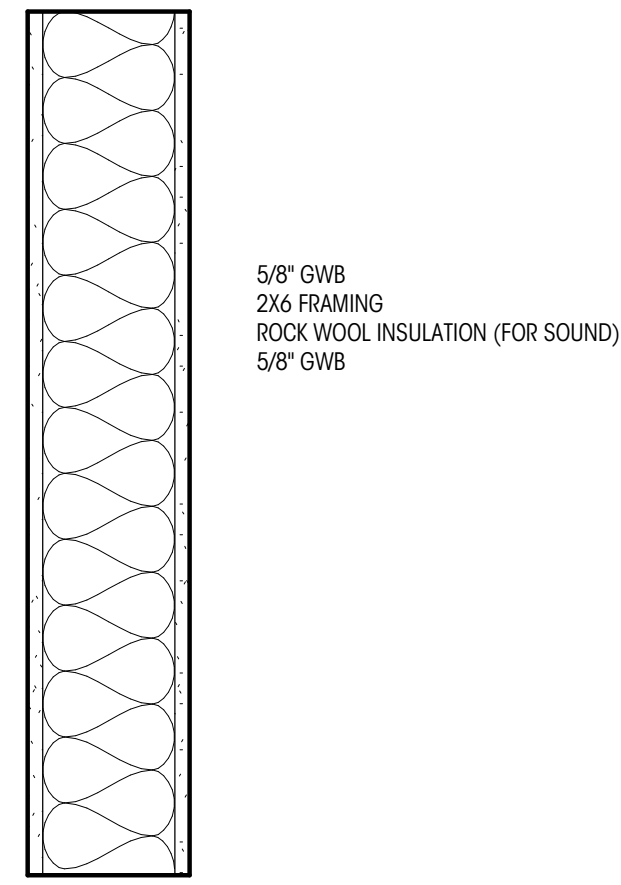
VERTICAL ASSEMBLIES



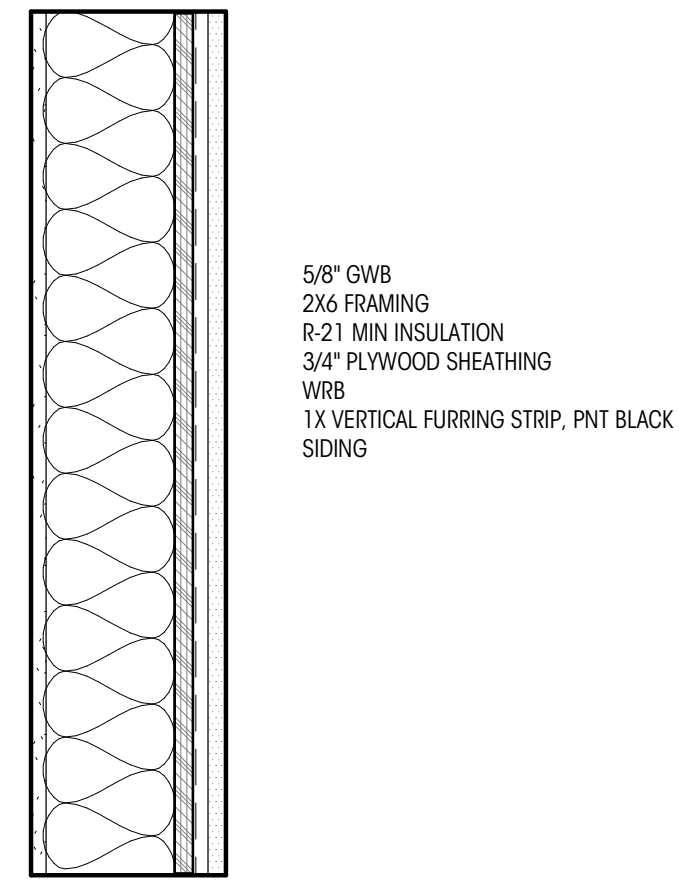
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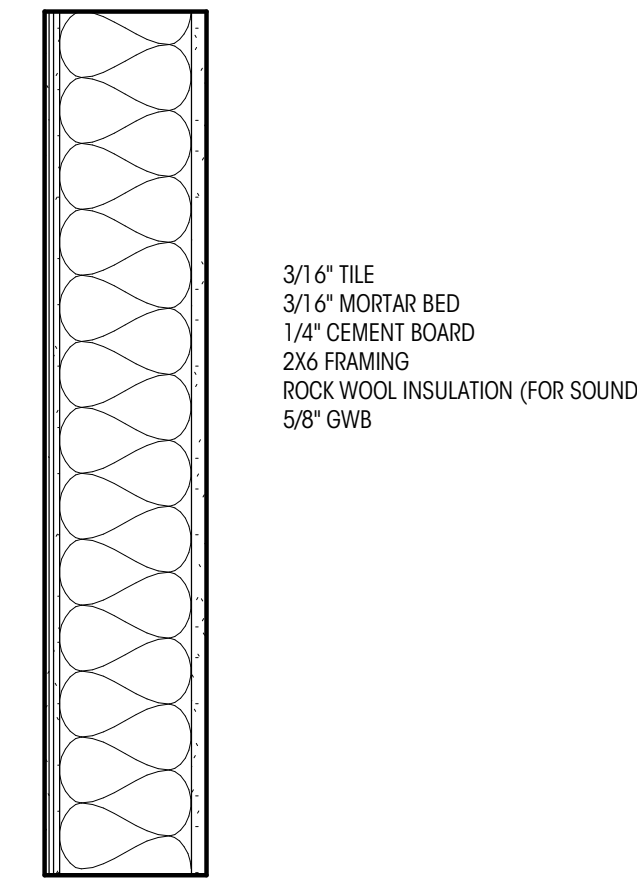
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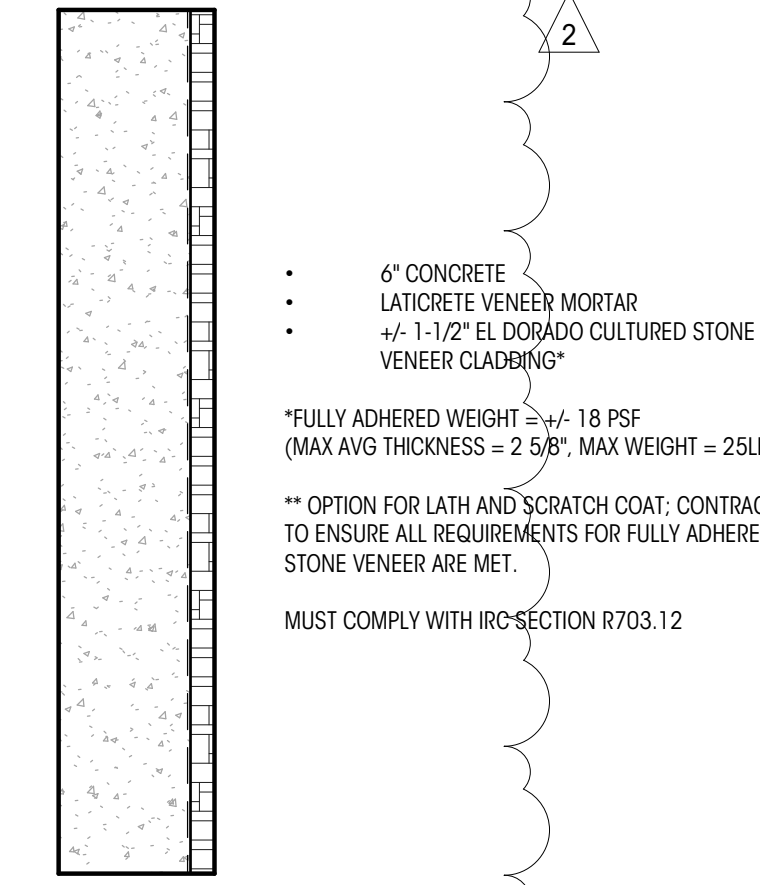
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W6b



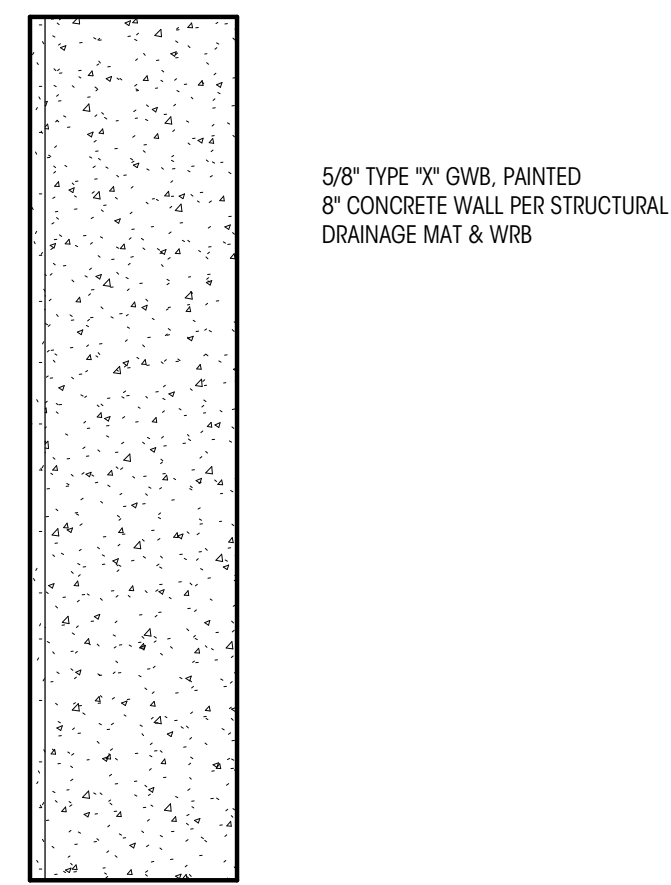
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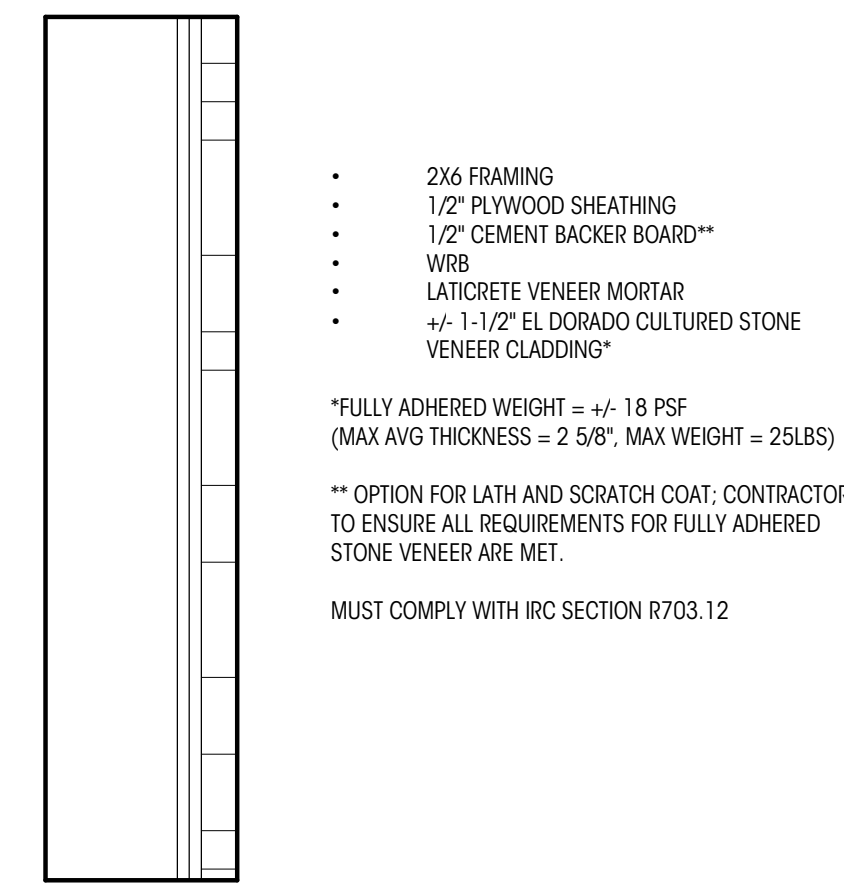
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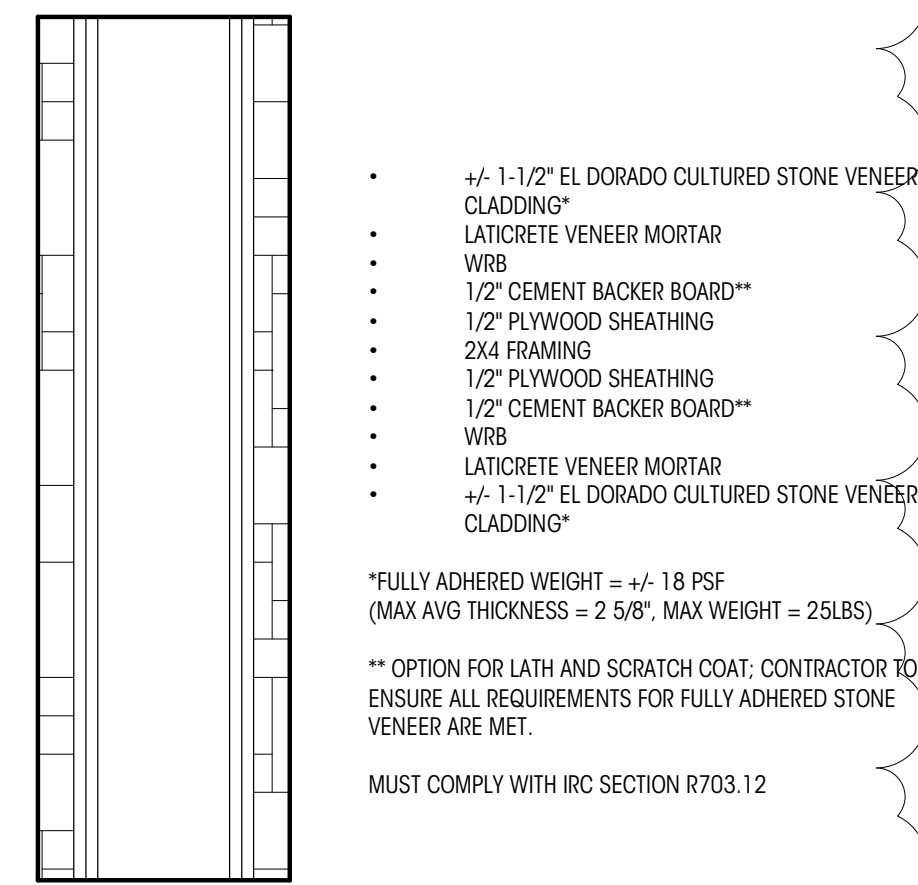
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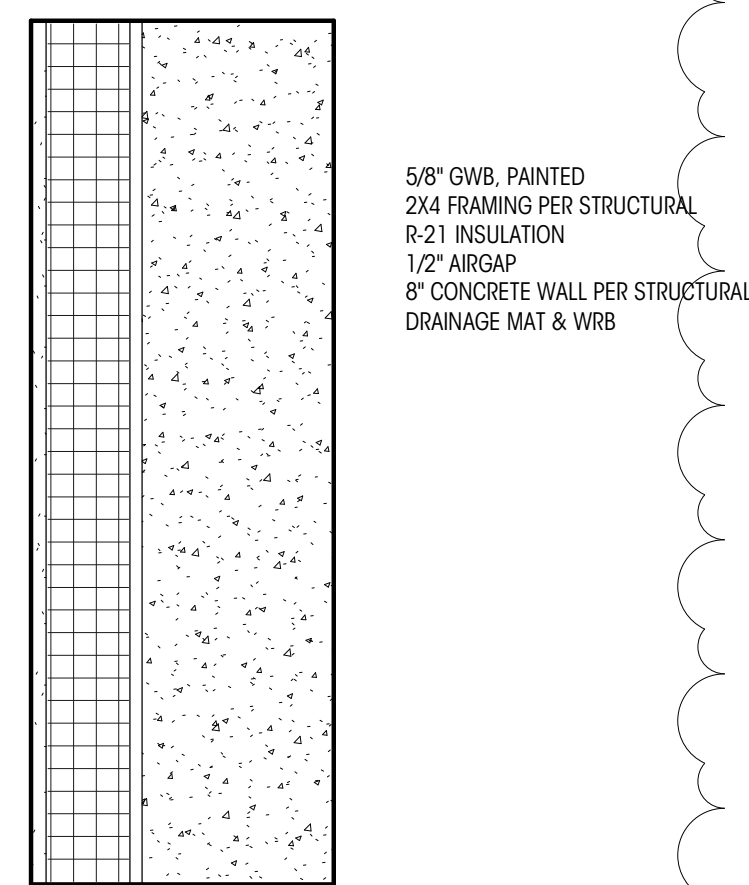
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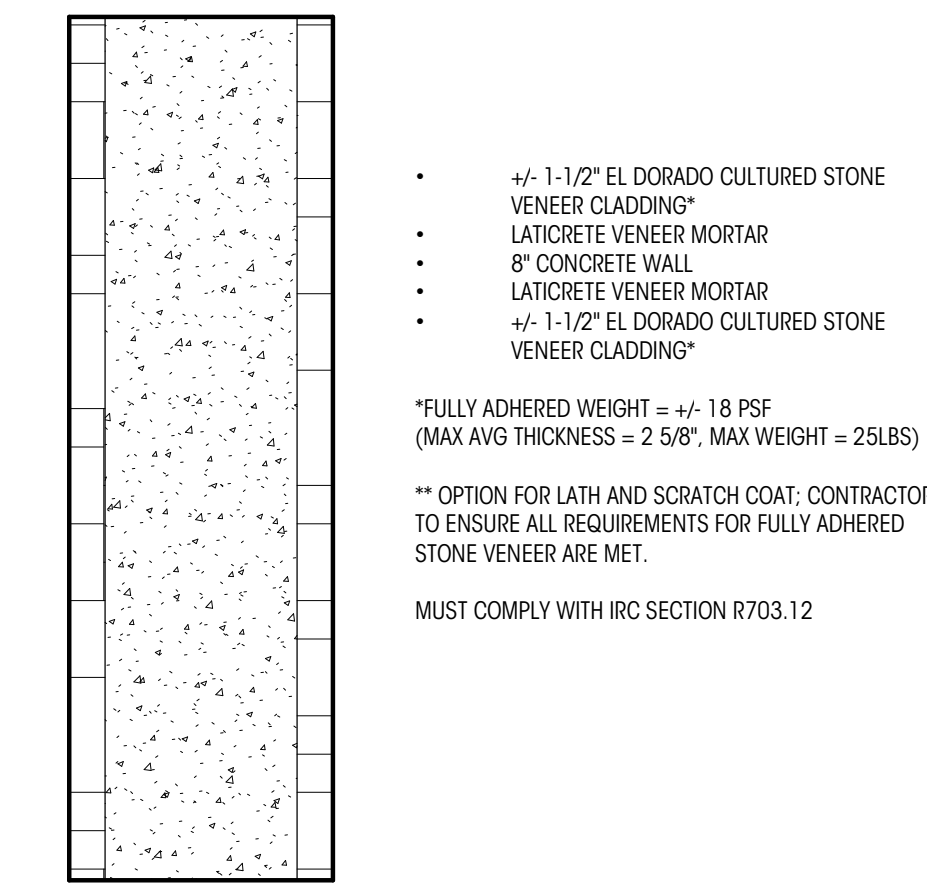
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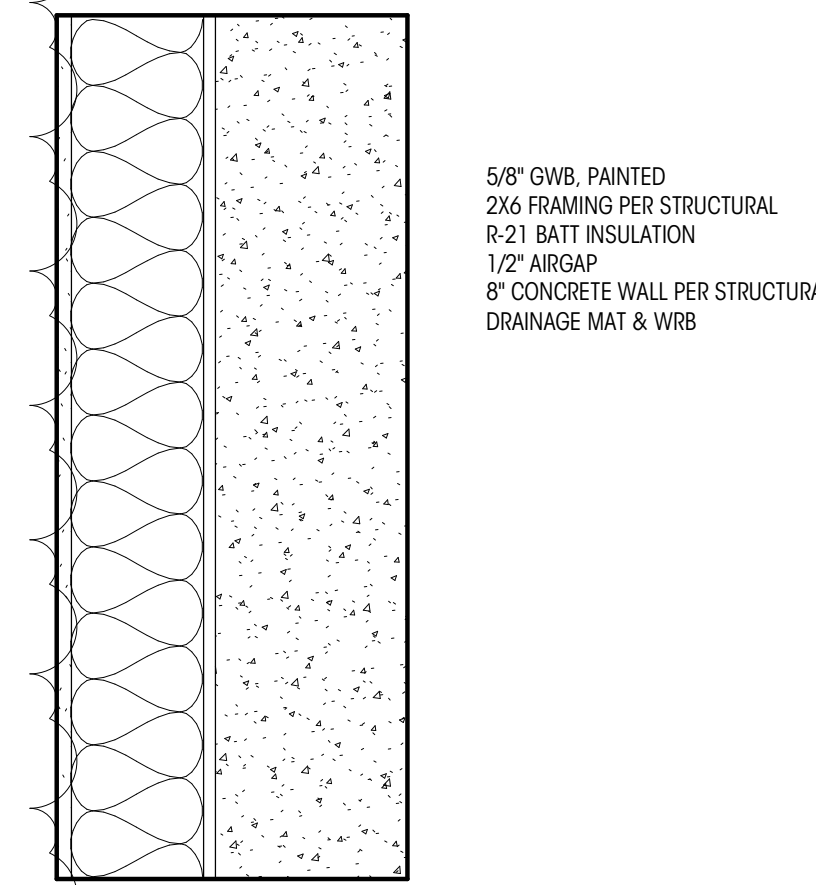
W10b



W12a

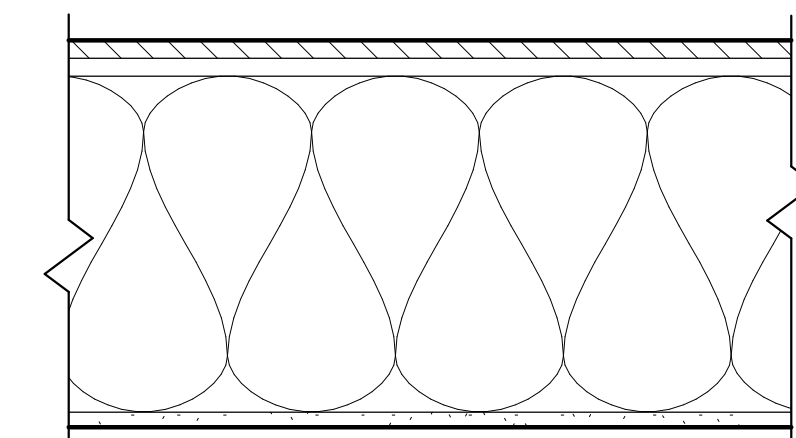


W12b



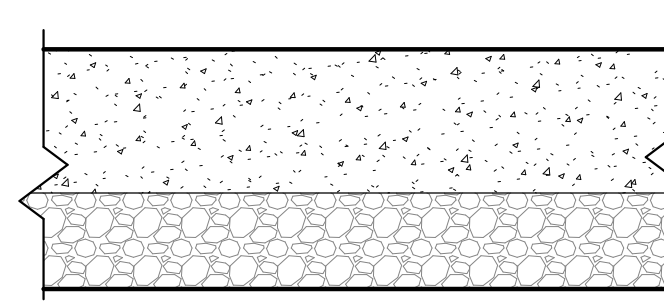
W14a

HORIZONTAL ASSEMBLIES

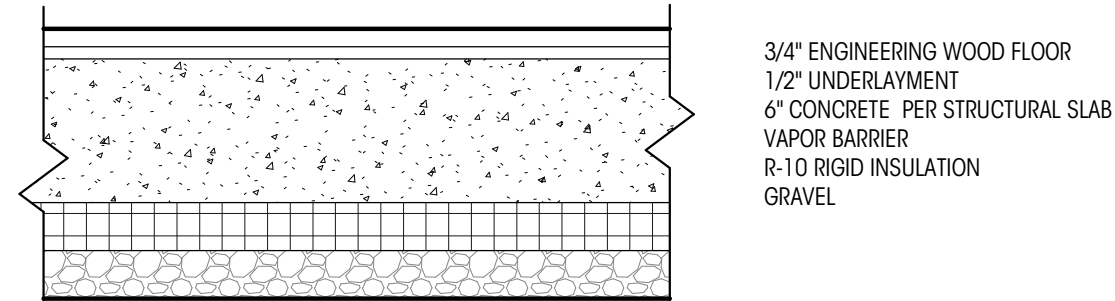


F1

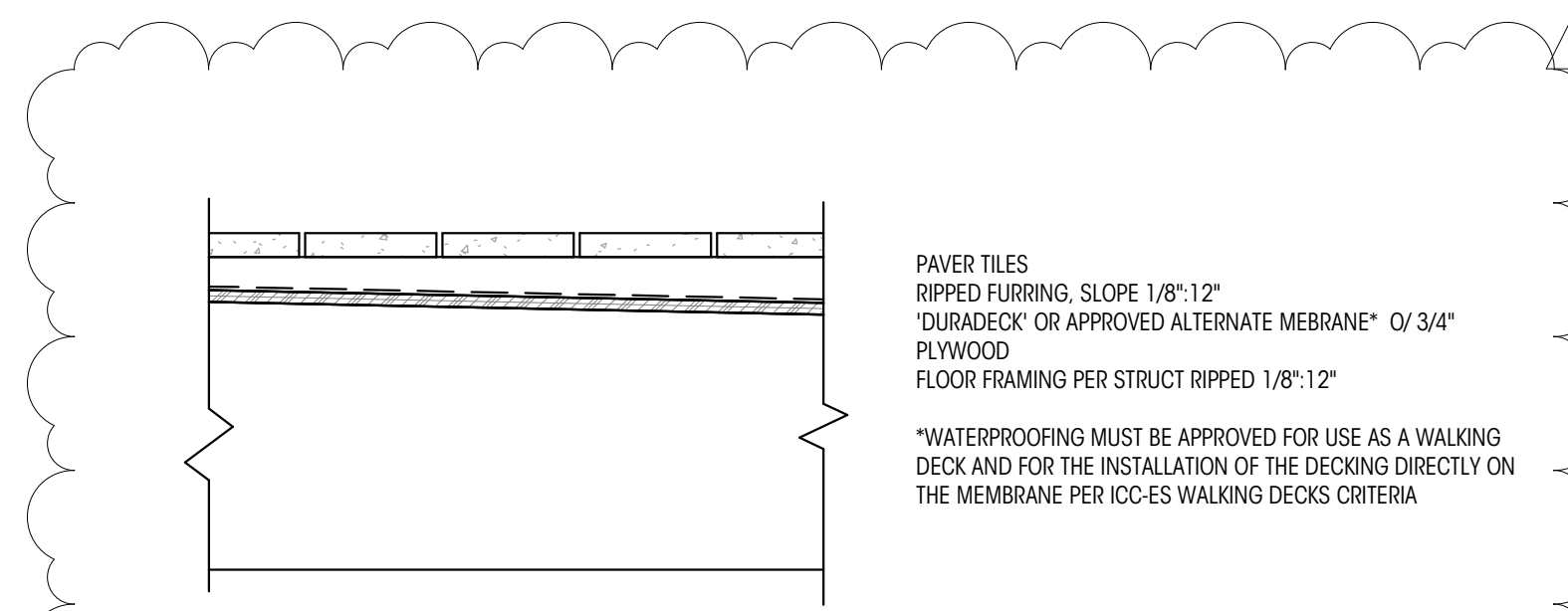
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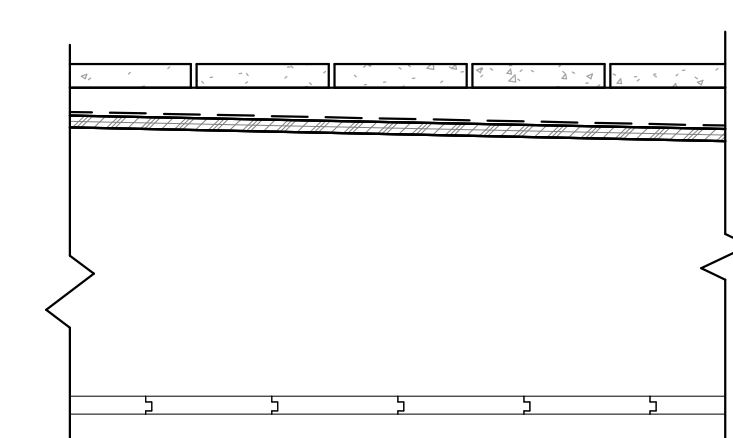
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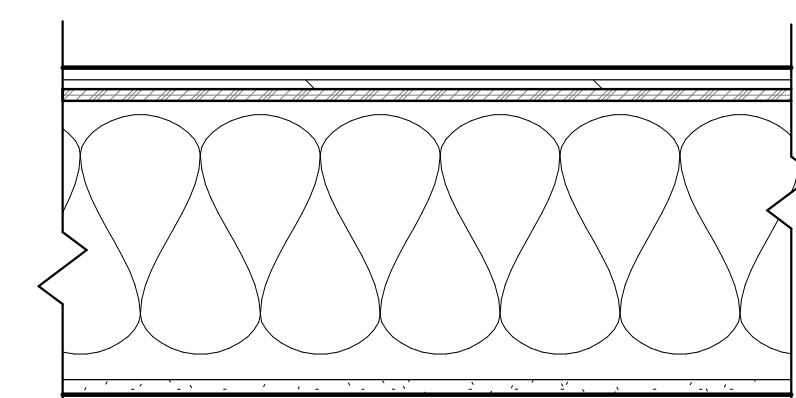
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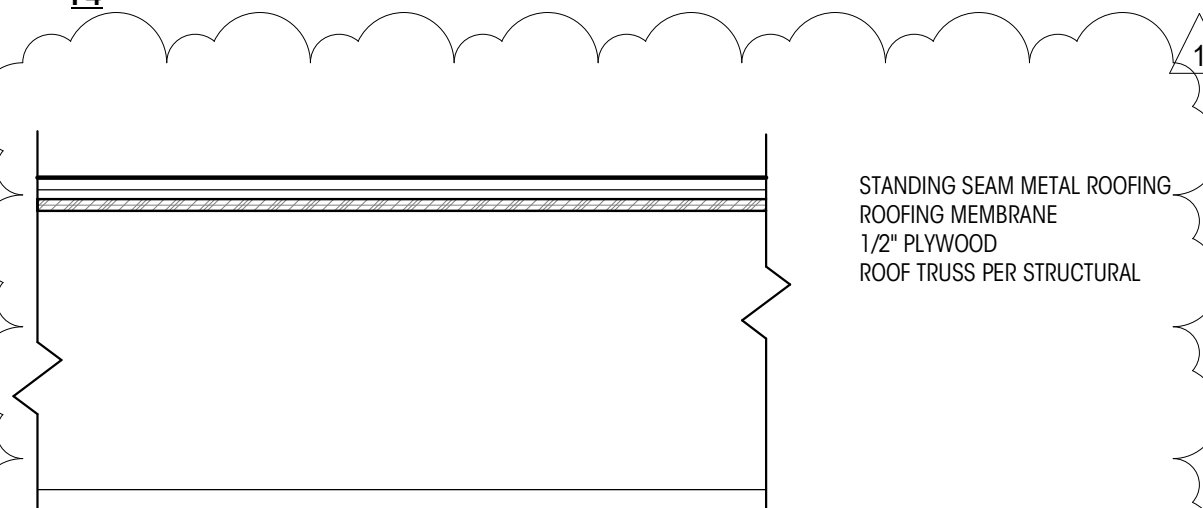
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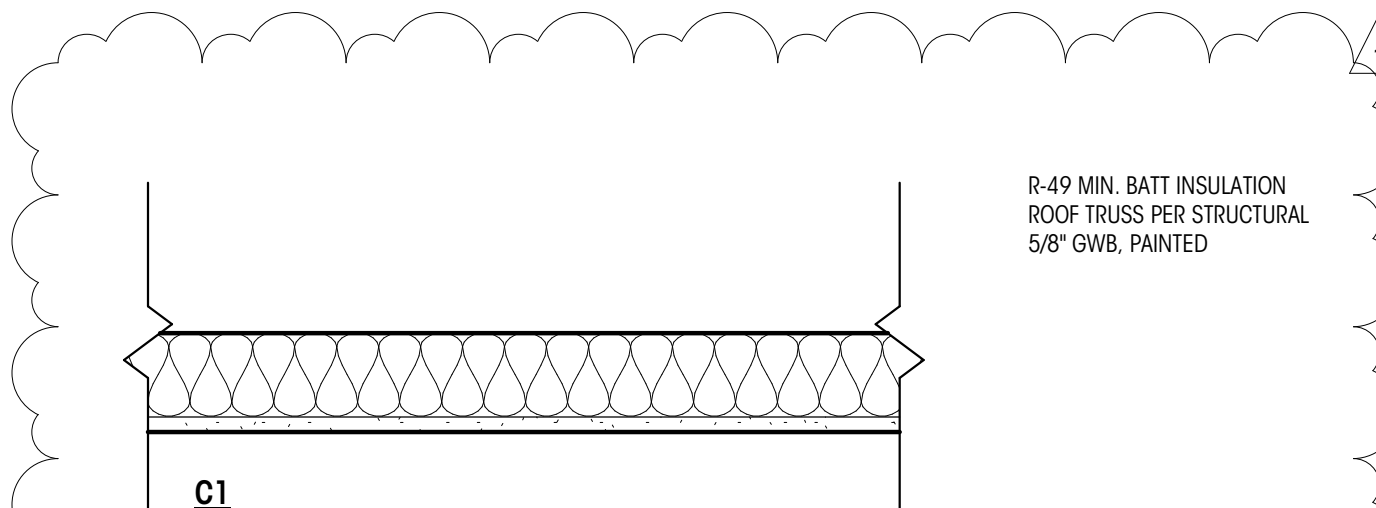
F6



R1



R2



C1

General Structural Notes
THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2015 EDITION).
- DESIGN LOADING CRITERIA:
GARAGES
FLOOR LIVE LOAD (PASSENGER VEHICLES) 40 PSF
FLOOR CONCENTRATED LOAD (PASSENGER VEHICLES) 3000 LBS
HANDRAILS AND GUARDS
GUARDRAILS/BALCONY RAILS 50 PLF
GUARDRAILS/BALCONY RAILS CONCENTRATED LOAD 200 LBS
RESIDENTIAL - ONE AND TWO-FAMILY DWELLINGS
FLOOR LIVE LOAD 40 PSF
ROOF
ROOF LIVE LOAD 25 PSF
MISCELLANEOUS LOADS
DECKS 1.5 x AREA SERVED
ENVIRONMENTAL LOADS
SNOW Ce=1.0, Is=1.0, Ct=1.1, Pg=25 PSF, Pf=20 PSF
WIND Gcpi=0.18, 110 MPH, RISK CATEGORY II, EXPOSURE "C"
EARTHQUAKE . . . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS, Vs = 20 KIPS
SITE CLASS=D, Ss=147, Sds=98, S1=56, SD1=56, Cs=0.150
SDC D, Ie=1.0, R=6.5

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS 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 TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".

- 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.

- 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. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

- ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

- SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

CONNECTOR PLATE WOOD ROOF TRUSSES

CONTRACTOR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8" = 1'-0" SCALE INDICATING LOCATIONS OF CONNECTION EMBEDMENT'S AND WALL OPENINGS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WALL ELEVATION DRAWINGS WITH REINFORCEMENT SHOP DRAWINGS.

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

- SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, 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 WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

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.

QUALITY ASSURANCE

- SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1705 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL FABRICATION AND ERECTION	PER S1.3
CONCRETE CONSTRUCTION	PER S1.3
CAST-IN-PLACE DEEP FOUNDATION	PER S1.3



PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS.
CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.

GEOTECHNICAL

- FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH OR COMPACTED STRUCTURAL FILL AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. 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 SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

ALLOWABLE SKIN FRICTION (DRILLED PILES)	900 PSF
LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)	55 PCF/45 PCF
ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED)	167 PCF
TRAFFIC SURCHARGE PRESSURE (UNIFORM LOAD)	90 PSF
SEISMIC SURCHARGE PRESSURE (UNIFORM LOAD)	104 PSF

SOILS REPORT REFERENCE:
TRANSMITTAL LETTER - GEOTECHNICAL ENGINEERING STUDY AND CRITICAL AREA STUDY JN 20279
DATE: OCTOBER 6, 2020
AUTHOR: GEOTECH CONSULTANTS, INC.

CONCRETE

- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF $f'c = 3,000$ PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 3" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS $f'c = 2,500$ PSI.

- ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14, TABLE 19.3.2.1 MODERATE EXPOSURE, F1.

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, $FY = 60,000$ PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, $FY = 40,000$ PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, $FY = 60,000$ PSI.

- DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. 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.

- 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 OR WEATHER (#6 BARS OR LARGER)	2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER)	1-1/2"
COLUMN TIES OR SPIRALS AND BEAM STIRRUPS	1-1/2"
SLABS AND WALLS (INT. FACE)	GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4"

- CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:

6" WALLS	#4 @ 16 HORIZ.	#4 @ 18 VERTICAL	1 CURTAIN
8" WALLS	#4 @ 12 HORIZ.	#4 @ 18 VERTICAL	1 CURTAIN
10" WALLS	#4 @ 18 HORIZ.	#4 @ 18 VERTICAL	2 CURTAINS
12" WALLS	#4 @ 16 HORIZ.	#4 @ 18 VERTICAL	2 CURTAINS

- CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.

- NON-SHRINK GROUT SHALL 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 (3000 PSI MINIMUM).

ANCHORAGE

- EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.

- EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "AT-XP" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH IAMPO REPORT NO. ER-0281. MINIMUM BASE MATERIAL TEMPERATURE IS 14 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

- CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY. INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE), NO. ESR-1056 (CMU) INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED.

MASONRY

- ADHERED MASONRY VENEER, 2-5/8" MAXIMUM THICKNESS, SHALL BE ADHERED TO BACKING WALLS PER SECTION 1405.10 OF THE INTERNATIONAL BUILDING CODE. ADHERED MASONRY SHALL BE ABLE TO DEVELOP SHEAR STRENGTH OF 50 PSI MINIMUM BETWEEN THE BACKING AND THE UNIT IN ACCORDANCE WITH ASTM C 482 OR SHALL BE ADHERED PER ARTICLE 3.3C OF TMS602/ACI530.1/ASCE 6.

STEEL

- STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:

- AISC 360 AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE.
- APRIL 14, 2010 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AMENDED AS FOLLOWS: AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1.
- SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	FY
A. WIDE FLANGE SHAPES	A992	50 KSI
B. OTHER SHAPES, PLATES, AND RODS	A36	36 KSI
C. OTHER SHAPES AND PLATES	A572 (GRADE 50)	50 KSI
(NOTED GRADE 50 ON PLANS)		
D. PIPE COLUMNS	A53 (E OR S, GR. B)	35 KSI
E. STRUCTURAL TUBING	A500 (GR. B)	
-SQUARE OR RECTANGULAR		
		46 KSI
-ROUND		
		42 KSI
F. ANY SHAPE	ASTM A1085	50 KSI
G. CONNECTION BOLTS	A325-N	
(3/4" ROUND, UNLESS SHOWN OTHERWISE)		

- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

- ALL STEEL EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE CORROSION PROTECTED BY GALVANIZATION OR PROVIDED WITH EXTERIOR PAINT SYSTEM, UNLESS OTHERWISE NOTED.

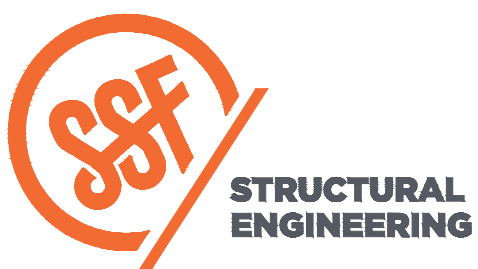
- SHOP PRIME ALL STEEL EXCEPT:

- STEEL ENCASED IN CONCRETE.
- SURFACES TO BE WELDED.
- CONTACT SURFACES AT HIGH-STRENGTH BOLTS.
- MEMBERS TO BE GALVANIZED.
- MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.
- SURFACES TO RECEIVE SPRAYED FIREPROOFING.
- SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

- ALL A-325N CONNECTION BOLTS NEED ONLY BE TIGHTENED TO A SNUG TIGHT CONDITION, DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH.

- ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END.

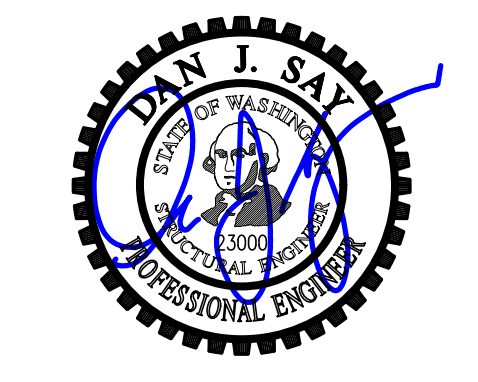
- ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT - LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.



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DESIGN:	HAA, BDM
DRAWN:	NHD
CHECKED:	BDM
APPROVED:	DJS

REVISIONS:

	Corrections	May 4, 2021
	Corrections 2	Aug. 13, 2021

DPD:

PROJECT TITLE:

Kahan Spec Home
8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:

Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:

PERMIT

SHEET TITLE:

**General
Structural Notes**

SCALE:

DATE: December 14, 2020

PROJECT NO: 01519-2020-15

SHEET NO:

S1.1

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

WOOD

34. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD "GRADING RULES FOR WEST COAST LUMBER NO. 17", OR WMPA STANDARD, "WESTERN LUMBER GRADING RULES 2011". FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS AND BEAMS	(2X & 3X MEMBERS)	HEM-FIR NO. 2 MINIMUM BASE VALUE, Fb = 850 PSI
	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1000 PSI
BEAMS	(INCL. 6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI
POSTS	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc = 1350 PSI
	(6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc = 1000 PSI
STUDS, PLATES & MISC. FRAMING:		DOUGLAS-FIR-LARCH OR HEM-FIR NO. 2

35. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA-EWS IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA-EWS CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb = 2,400 PSI, Fv = 265 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2400 PSI, Fv = 265 PSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS, WITH SPANS OVER 30', TO 3,500' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.

36. MANUFACTURED LUMBER, PSL, LVL, AND LSL SHOWN ON PLAN ARE BASED PRODUCTS BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES REPORT ESR-1387. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PSL (2.0E)	Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI
LVL (2.0E)	Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI
LSL (1.55E)	Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI

ALTERNATE MANUFACTURED LUMBER MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS, OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.

MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%. EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE.

37. PREFABRICATED PLYWOOD WEB JOIST DESIGN SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION. ALTERNATE PLYWOOD WEB JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS, OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.

38. PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE-CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1" BY THE TRUSS PLATE INSTITUTE FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. LOADING SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD	25 PSF
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD DEAD LOAD	5 PSF
TOTAL LOAD	40 PSF

WIND UPLIFT (TOP CHORD)	5 PSF
BOTTOM CHORD LIVE LOAD	
WHERE ROOF TRUSS MEETS UNINHABITABLE ATTIC STORAGE PER PLAN (LOAD SHALL BE APPLIED CONCURRENTLY WITH ROOF LIVE LOAD)	20 PSF



ELSE (LOAD SHALL NOT BE APPLIED CONCURRENTLY WITH ROOF LIVE LOAD)	10 PSF
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WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BE SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC., SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED ON THE PLANS. PROVIDE ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. PROVIDE FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

39. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL 11, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.

FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

40. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

41. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AWPA UC4A. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B.

42. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE NOTED.

WOOD TREATMENT	CONDITION	PROTECTION
HAS NO AMMONIA CARRIER	INTERIOR DRY	G90 GALVANIZED
CONTAINS AMMONIA CARRIER	INTERIOR DRY	G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653
CONTAINS AMMONIA CARRIER	INTERIOR WET	TYPE 304 OR 316 STAINLESS
CONTAINS AMMONIA CARRIER	EXTERIOR	TYPE 304 OR 316 STAINLESS
AZCA	ANY	TYPE 304 OR 316 STAINLESS

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

43. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED.

44. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
6d	2"	0.113"
8d	2-1/2"	0.131"
10d	3"	0.148"
12d	3-1/4"	0.148"
16d BOX	3-1/2"	0.135"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

45. NOTCHES AND HOLES IN WOOD FRAMING:

A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.

B. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

C. NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE NOTED.

46. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

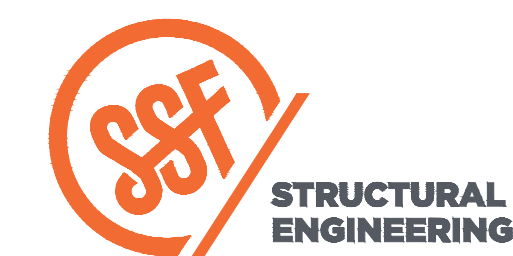
B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS, AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

ALL WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d @ 12" O.C. AND LAP MINIMUM 4'-0" AT JOINTS AND PROVIDE EIGHT 16d NAILS @ 4" O.C. EACH SIDE JOINT.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH TWO ROWS OF 16d @12" ON-CENTER. UNLESS OTHERWISE NOTED, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH NO. 6 X 1-1/4" TYPE S OR W SCREWS @ 8" ON-CENTER. UNLESS INDICATED OTHERWISE, 1/2" (NOMINAL)APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES)AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

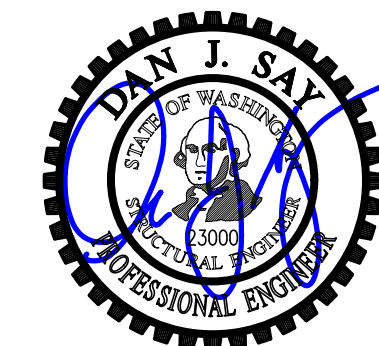
C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOE-NAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6" ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER UNLESS OTHERWISE NOTED.



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DESIGN:	HAA, BDM
DRAWN:	NHD
CHECKED:	BDM
APPROVED:	DJS

REVISIONS:		
1	Corrections	May 4, 2021
2	Corrections 2	Aug. 13, 2021

DPD:

PROJECT TITLE:
Kahan Spec Home
8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
PERMIT

SHEET TITLE:
General Structural Notes

SCALE:
-
DATE:
December 14, 2020
PROJECT NO:
01519-2020-15
SHEET NO:

S1.2

Statement of Special Inspections

Special inspections shall be provided per the requirements of IBC section 1705 and as noted herein

SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		

DRIVEN DEEP FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS	X			IBC 1705.7
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED	X			
3. OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X			
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT	X			
5. SEE STEEL CONSTRUCTION INSPECTION REQUIREMENTS FOR STEEL PILE ELEMENTS				IBC 1705.2
6. SEE CONCRETE CONSTRUCTION INSPECTION REQUIREMENTS FOR CONCRETE AND CONCRETE FILLED ELEMENTS				IBC 1705.3
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE				

CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X			IBC 1705.8
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (if applicable), LENGTHS, EMBEDMENT INTO BEDROCK (if applicable) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES	X			
3. SEE CONCRETE CONSTRUCTION INSPECTION REQUIREMENTS FOR CONCRETE ELEMENTS				IBC 1705.3

STRUCTURAL STEEL

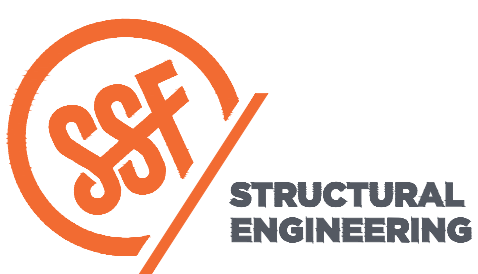
VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCE
1. FABRICATED AND ERECTED STEEL:				
a. COMPLIANCE WITH DETAILS SHOWN ON CONSTRUCTION DOCUMENTS		X		AISC 360, SECTION N5
b. APPLICATION OF JOINT DETAILS AT EACH CONNECTION		X		
2. INSPECTION OF HIGH STRENGTH BOLTING:				
a. SNUG-TIGHT JOINTS		X		IBC 1705.2.1 AISC 360, SECTION M2.5 SECTION N5.6
b. PRE-TENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION		X		
c. PRE-TENSIONS AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	X			
3. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS		X		AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED		X		
4. INSPECTION OF WELDING:				
a. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELD	X			IBC 1705.2.1 AWS D1.1
b. MULTIPASS FILLET WELDS	X			AISC 360 SECTION N5.4
c. SINGLE PASS FILLET WELDS > 9/16"	X			
d. PLUG AND SLOT WELDS	X			
e. SINGLE PASS FILLET WELDS ≤ 9/16"		X		
5. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:				
a. DETAILS SUCH AS BRACING AND STIFFENING		X		IBC 1705.2.1
b. MEMBER LOCATIONS		X		
c. APPLICATION OF JOINT DETAILS AT EACH CONN.		X		
6. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		X		AISC 360, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED		X		

CONCRETE AND CONCRETE REINFORCING

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	COMMENTS	REFERENCE
1. INSPECTION OF REINFORCING STEEL INCLUDING PRESTRESSING TENDONS, AND PLACEMENT				
		X		IBC 1908.4 ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3
2. INSPECTION OF ANCHORS CAST IN CONCRETE				
		X		ACI 318: 17.8.2
3. INSPECTION OF POST-INSTALLED ANCHORS IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS	X		SEE ICC-ES ESR REPORT FOR ADDITIONAL REQUIREMENTS	ACI 318: 17.8.2.4
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 3-g		X	SEE ICC-ES ESR REPORT FOR ADDITIONAL REQUIREMENTS	ACI 318: 17.8.2
4. VERIFYING USE OF REQUIRED DESIGN MIX				
		X		IBC 1904.1 IBC 1904.2 IBC 1908.2 IBC 1908.3 ACI 318: Ch. 19, 26.4.3, 26.4.4
5. INSPECTION DURING CONCRETE MIXING:				
a. CONCRETE MIXES PREPARED IN A BATCH PLANT THAT IS NOT CERTIFIED BY THE CITY OF SEATTLE		X	CITY OF SEATTLE ONLY, NOT REQUIRED IF THE PROPORTIONS OF INGREDIENTS ARE ESTABLISHED IN ACCORDANCE WITH SBC 1905.1.10 OR IF THE MIX HAS BEEN GRANTED CONTINUOUS APPROVAL BY THE BUILDING OFFICIAL	SBC 1705.3.3
b. MIXES WITH $f'_c > 6000\text{psi}$		X		
c. STRUCTURAL LIGHT WEIGHT CONCRETE		X		
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE				
	X			IBC 1908.10 ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES				
	X			IBC 1908.6 -1908.8 ACI 318: 26.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES				
		X		IBC 1908.9 ACI 318: 26.5.3-26.5.5
9. INSPECT ERECTION OF PRE-CAST CONCRETE MEMBERS				
		X		ACI 318: 26.9
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS				
		X		ACI 318: 26.11.2
11. INSPECT FORMWORK FOR GENERAL CONFORMITY TO APPROVED PLANS FOR SIZE, SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED				
		X		ACI 318: 26.11.2(b)
12. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X		AWS D1.4 ACI 318: 26.6.4
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 9/16", OTHER THAN C & D		X		
c. WELDING OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT	X			
d. WELDING SHEAR REINFORCEMENT	X			
e. WELDING OF OTHER REINFORCEMENT STEEL	X			
13. MECHANICAL COUPLERS FOR REINFORCING				
			SEE ICC-ES ESR REPORT FOR REQUIREMENTS	

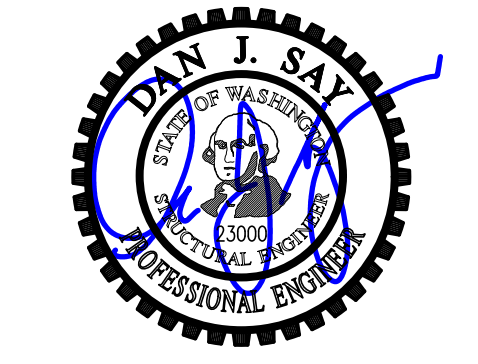
NOTES

- TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT, AND STRUCTURAL ENGINEER.
- STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED AS FOLLOWS:
 - PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES
 - REVIEW OF TESTING AND INSPECTION REPORTS
 - REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.
- WHERE APPLICABLE, SEE ALSO IBC SECTION 1705.11, SPECIAL INSPECTION FOR WIND RESISTANCE AND IBC SECTION 1705.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE
- "STRUCTURAL STEEL" REFERS TO STEEL CONSTRUCTION DEFINED BY AISC 303, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."



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 sseengineers.com

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DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:
 1 Corrections May 4, 2021
 2 Corrections 2 Aug. 13, 2021

DPD:

PROJECT TITLE:
Kahan Spec Home
 8163 West Mercer Way
 Mercer Island, WA 98040

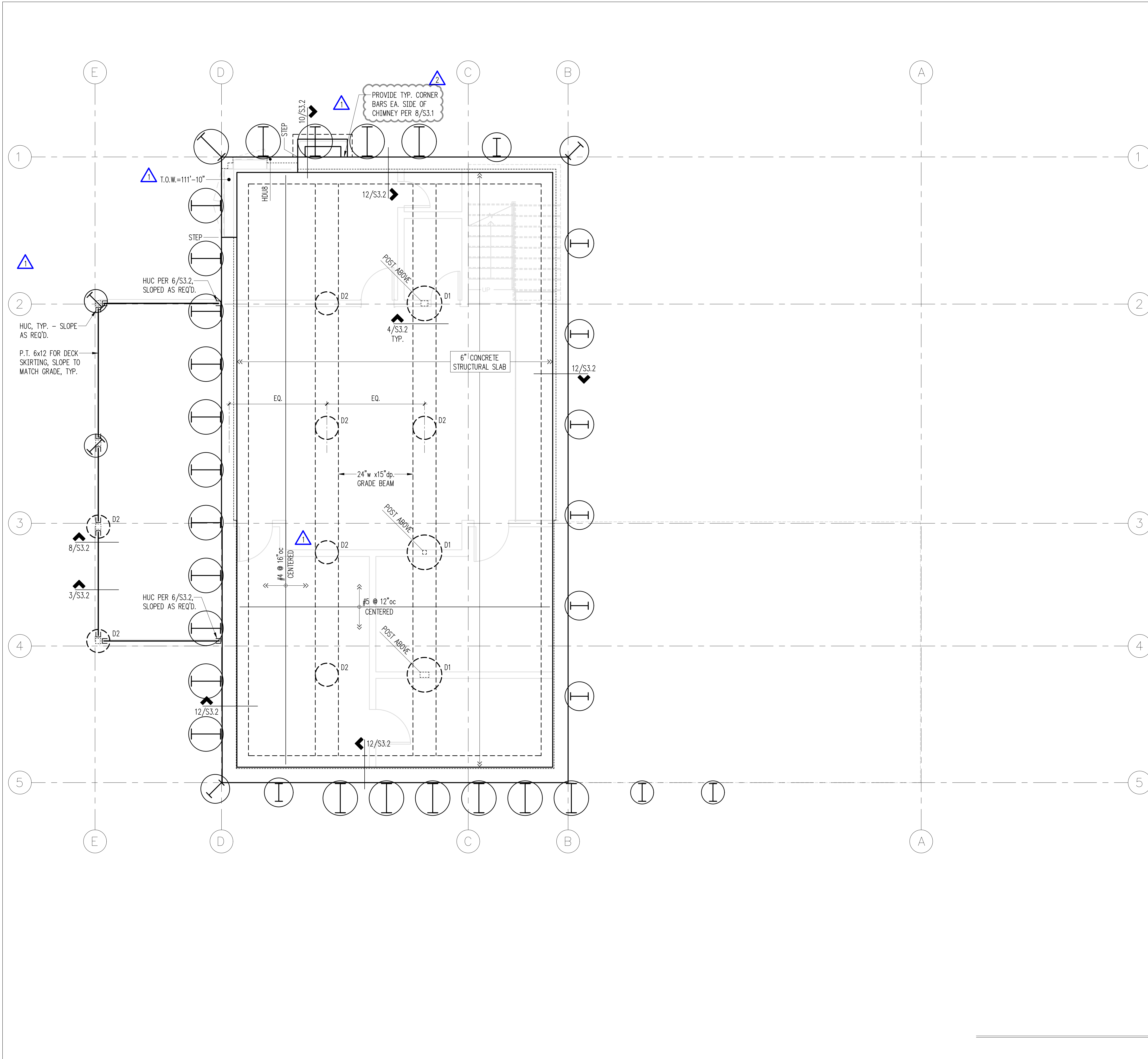
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
PERMIT

SHEET TITLE:
Special Inspection Notes

SCALE:
 DATE: December 14, 2020
 PROJECT NO: 01519-2020-15
 SHEET NO:

1 S1.3



Drilled Pier Schedule

MARK	PIER Ø	MIN. EMBED*	VERT. REINF.	HORIZ. REINF.
D1	36"	10'-0"	(8)#4	#3 TIES @ 12"oc
D2	24"	6'-0"	(4)#4	#3 TIES @ 12"oc

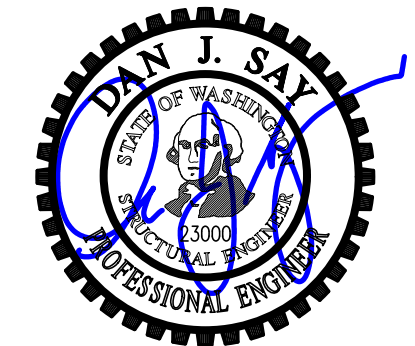
* NOTE: EMBEDMENT SHALL BEGIN AT TOP OF HARD SILT, DEPTH PER GEOTECH.

Legend

- STRUCTURAL WALL OR POST ABOVE
- STEM WALL & FOOTING
- HOLDOWN PER 12/S3.1
- SHORING PILE PER SH2.1
- DRILLED PIER PER SCHEDULE, THIS SHEET (10 total this sheet)
- T.O.W.

Plan Notes

1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW EXTERIOR GRADE.
4. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.
5. INTERIOR SLABS ON GRADE PER PLAN. BELOW SLAB PROVIDE A 10-MIL VAPOR BARRIER OVER 6" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL.



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

1	Corrections	May 4, 2021
2	Corrections 2	Aug. 13, 2021

PROJECT TITLE:
Kahan Spec Home
 8163 West Mercer Way
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
PERMIT

SHEET TITLE:
Lower Foundation Plan

SCALE: 1/4" = 1'-0" U.N.O.
 DATE: December 14, 2020
 PROJECT NO: 01519-2020-15
 SHEET NO:



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:

1	Corrections	May 4, 2021
2	Corrections 2	Aug. 13, 2021

DPD:

PROJECT TITLE:
Kahan Spec Home
8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
PERMIT

SHEET TITLE:
Main Floor Framing/Upper Foundation Plan

SCALE: 1/4" = 1'-0" U.N.O.
DATE: December 14, 2020
PROJECT NO: 01519-2020-15
SHEET NO:

S2.2

Drilled Pier Schedule

MARK	PIER Ø	MIN. EMBED*	VERT. REINF.	HORIZ. REINF.
D1	36"	10'-0"	(8)#4	#3 TIES @ 12"oc
D2	24"	6'-0"	(4)#4	#3 TIES @ 12"oc

* NOTE: EMBEDMENT SHALL BEGIN AT TOP OF HARD SILT, DEPTH PER GEOTECH.

Beam Schedule

MARK	BEAM	HANGER	BRG. STUDS
B1	LVL 1 1/2x14	HU11	2
B2	LSL 3 1/2x14	HHUS410	3
B3	(3)LVL 1 1/2x14	HGUS5.50/14	4
B4	(4)LVL 1 1/2x14	HGUS7.25/14	5

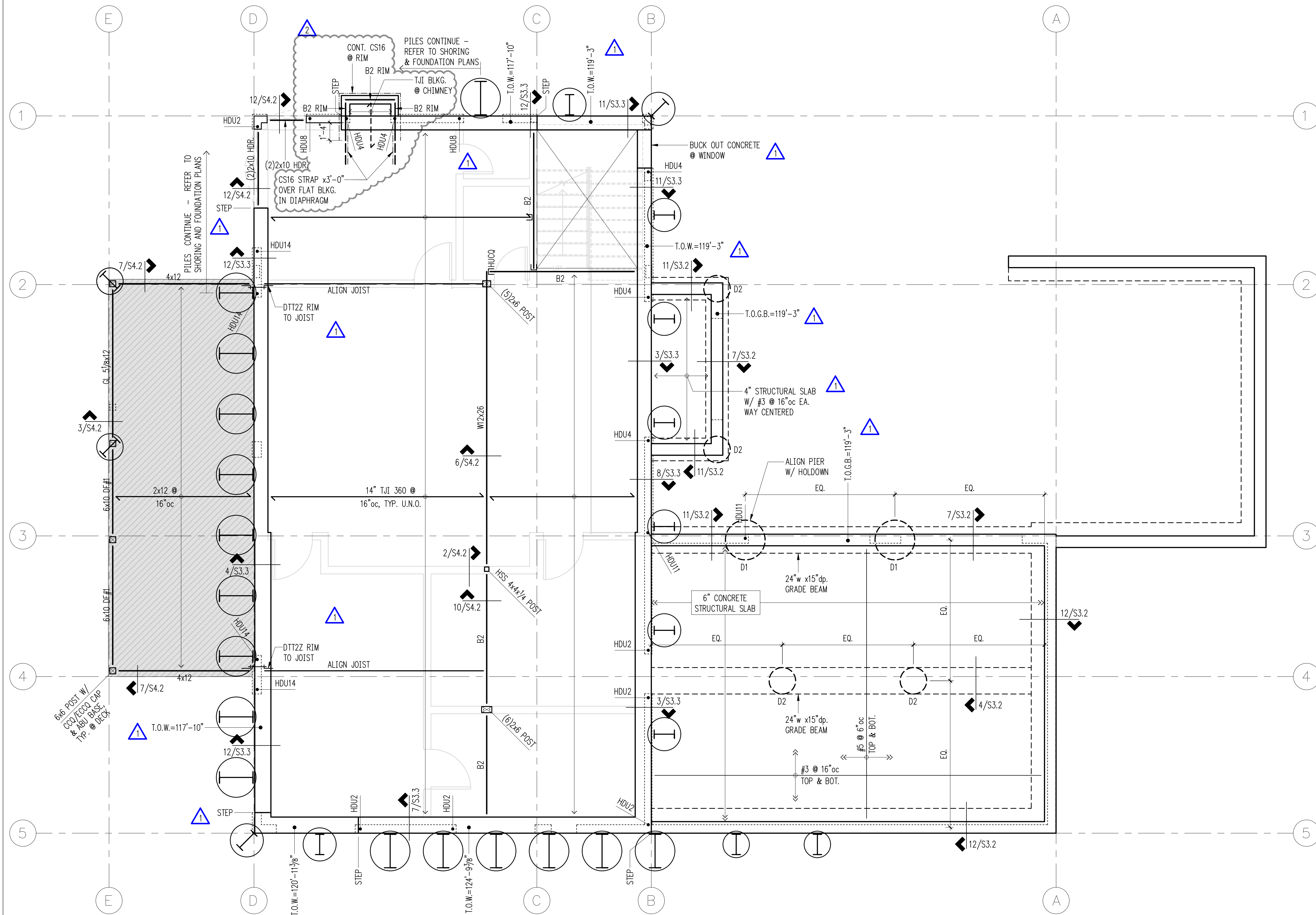
Legend

- STRUCTURAL WALL OR POST BELOW
- STRUCTURAL WALL OR POST ABOVE
- NON-STRUCTURAL WALL BELOW
- STEM WALL & FOOTING
- Wx SHEARWALL PER 12/S4.1
- SPAN DIRECTION
- EXTENT OF JOISTS
- HEADER/BEAM PER PLAN
- HANGER
- Bx BEAM PER SCHEDULE, THIS SHEET
- MAX. TILE AND MORTAR WEIGHT OF 20 PSF
- BLOCKED FLOOR DIAPHRAGM: 2x4 FLAT BLKG. AT ALL PLYWOOD PANEL EDGES. NAIL ALL PLYWOOD PANEL EDGES W/ #8 @ 4"oc & @ 12"oc FIELD
- HDUx HOLDOWN PER 12/S3.1
- SHORING PILE PER SH2.1
- DRILLED PIER PER SCHEDULE, THIS SHEET (6 total this sheet)
- T.O.W. TOP OF WALL ELEVATION. ELEVATIONS ARE ESTIMATES, CONTRACTOR TO CONFIRM W/ ARCHITECT & ACTUAL SITE CONDITIONS

Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
- THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW EXTERIOR GRADE.
- INTERIOR SLABS ON GRADE PER PLAN. BELOW SLAB PROVIDE A 10-MIL VAPOR BARRIER OVER 6" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL.
- EXTERIOR SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS. REINFORCE WITH #3 AT 16" O.C. CENTERED IN SLAB. BELOW SLAB PROVIDE 6" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL.
- TYPICAL FLOOR FRAMING CONSISTS OF FLOORING PER ARCHITECT OVER 3/4" T&G APA RATED PLYWOOD FACE GRAIN PERPENDICULAR TO FRAMING PER PLAN, U.O.N.
- NAIL FLOOR SHEATHING W/ #8 @ 6" OC AT FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12" OC IN FIELD.
- PROVIDE BLOCKING/BRIDGING AT 8'-0" O.C. IN FLOOR FRAMING
- "W_" INDICATES PLYWOOD SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE FOR WALL ATTACHMENTS. ALL EXTERIOR WOOD FRAMED WALLS ARE W6, U.O.N.
- PROVIDE (2) BEARING STUDS AT EACH END OF ALL HEADERS AND BEAMS OVER 3'-0" IN LENGTH, U.O.N.
- PROVIDE LCE COLUMN CAP AND BASE AT ALL BEAM TO COLUMN CONNECTIONS U.O.N.
- ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.

Main Floor Framing/Upper Foundation Plan
Scale: 1/4" = 1'-0"





DESIGN: HAA, BDM

DRAWN: NHD

CHECKED: BDM

APPROVED: DJS

REVISIONS:

1	Corrections	May 4, 2021
2	Corrections 2	Aug. 13, 2021

DPD:

PROJECT TITLE:

Kahan Spec Home
8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:

Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:

PERMIT

SHEET TITLE:

**Upper Floor
Framing Plan**

SCALE:

1/4" = 1'-0" U.N.O.

DATE:

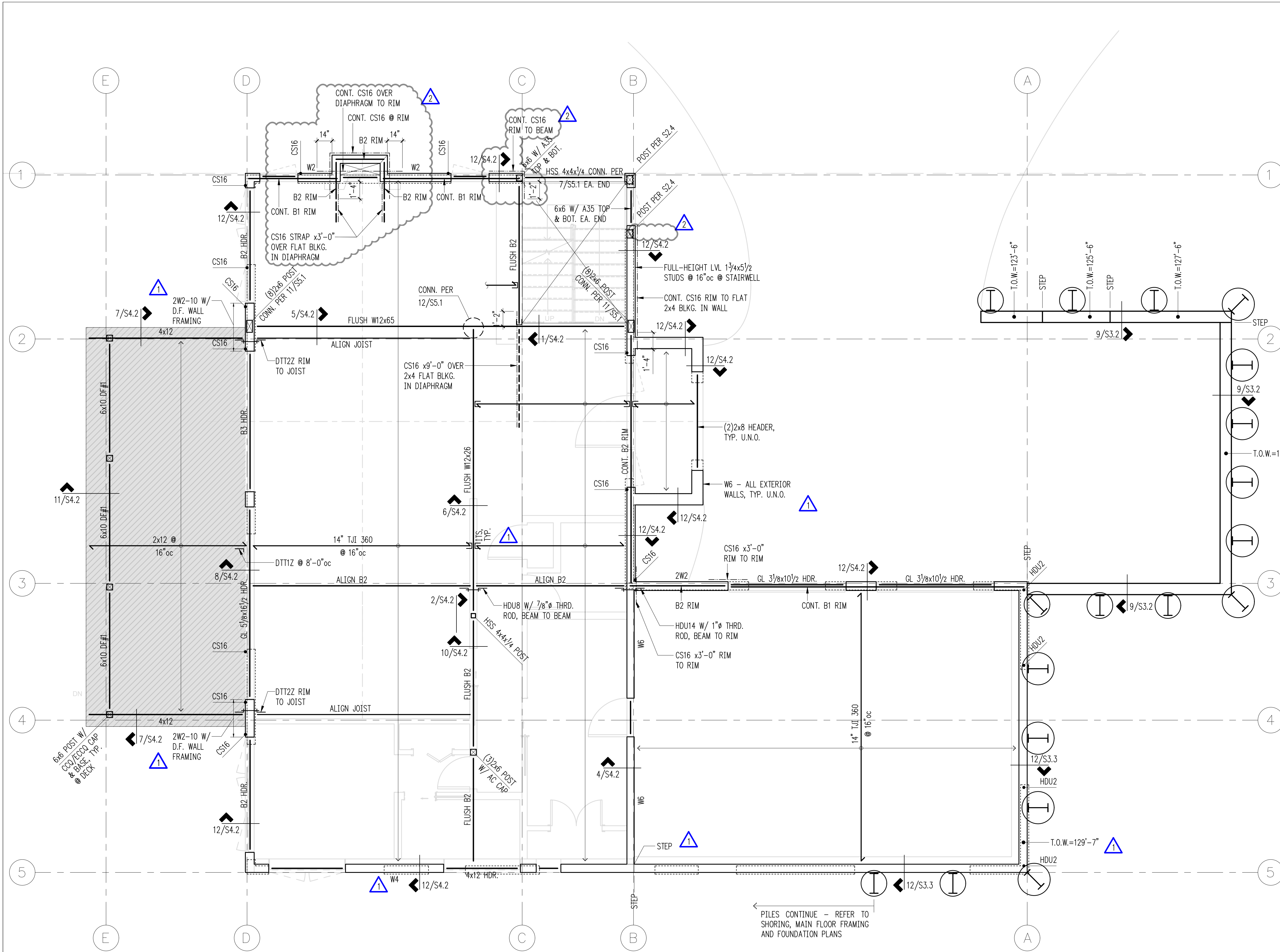
December 14, 2020

PROJECT NO.:

01519-2020-15

SHEET NO.:

S2.3



Beam Schedule

MARK	BEAM	HANGER	BRG. STUDS
B1	LVL 1 3/4x14	HU11	2
B2	LSL 3/2x14	HHUS410	3
B3	(3)LVL 1 3/4x14	HGUS5.50/14	4
B4	(4)LVL 1 3/4x14	HGUS7.25/14	5

Legend

- STRUCTURAL WALL OR POST BELOW
- STRUCTURAL WALL OR POST ABOVE
- NON-STRUCTURAL WALL BELOW
- SHEARWALL PER 12/S4.1
- SPAN DIRECTION
- EXTENT OF JOISTS
- HEADER/BEAM PER PLAN
- HANGER
- BEAM PER SCHEDULE, THIS SHEET
- MAX. TILE AND MORTAR WEIGHT OF 20 PSF
- BLOCKED FLOOR DIAPHRAGM: 2x4 FLAT BLKG. AT ALL PLYWOOD PANEL EDGES. NAIL ALL PLYWOOD PANEL EDGES W/ 8d @ 4"oc & @ 12"oc FIELD
- HOLDOWN PER 12/S3.1
- STRAP PER 5/S4.1
- SHORING PILE PER SH2.1
- T.O.W. TOP OF WALL ELEVATION. ELEVATIONS ARE ESTIMATES, CONTRACTOR TO CONFIRM W/ ARCHITECT & ACTUAL SITE CONDITIONS

Plan Notes

1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. TYPICAL FLOOR FRAMING CONSISTS OF FLOORING PER ARCHITECT OVER 3/4" T&G APA RATED PLYWOOD FACE GRAIN PERPENDICULAR TO FRAMING PER PLAN, U.O.N.
4. NAIL FLOOR SHEATHING W/ 8D AT 6" OC AT FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12" OC IN FIELD.
5. PROVIDE BLOCKING/BRIDGING AT 8'-0" O.C. IN FLOOR FRAMING
6. "W." INDICATES PLYWOOD SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE FOR WALL ATTACHMENTS. ALL EXTERIOR WOOD FRAMED WALLS ARE W6, U.O.N.
7. PROVIDE (2) BEARING STUDS AT EACH END OF ALL HEADERS AND BEAMS OVER 3'-0" IN LENGTH, U.O.N.
8. PROVIDE LCE COLUMN CAP AND BASE AT ALL BEAM TO COLUMN CONNECTIONS U.O.N.
9. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:

1 Corrections May 4, 2021
2 Corrections 2 Aug. 13, 2021

DPD:

PROJECT TITLE:
Kahan Spec Home
8163 West Mercer Way
Mercer Island, WA 98040

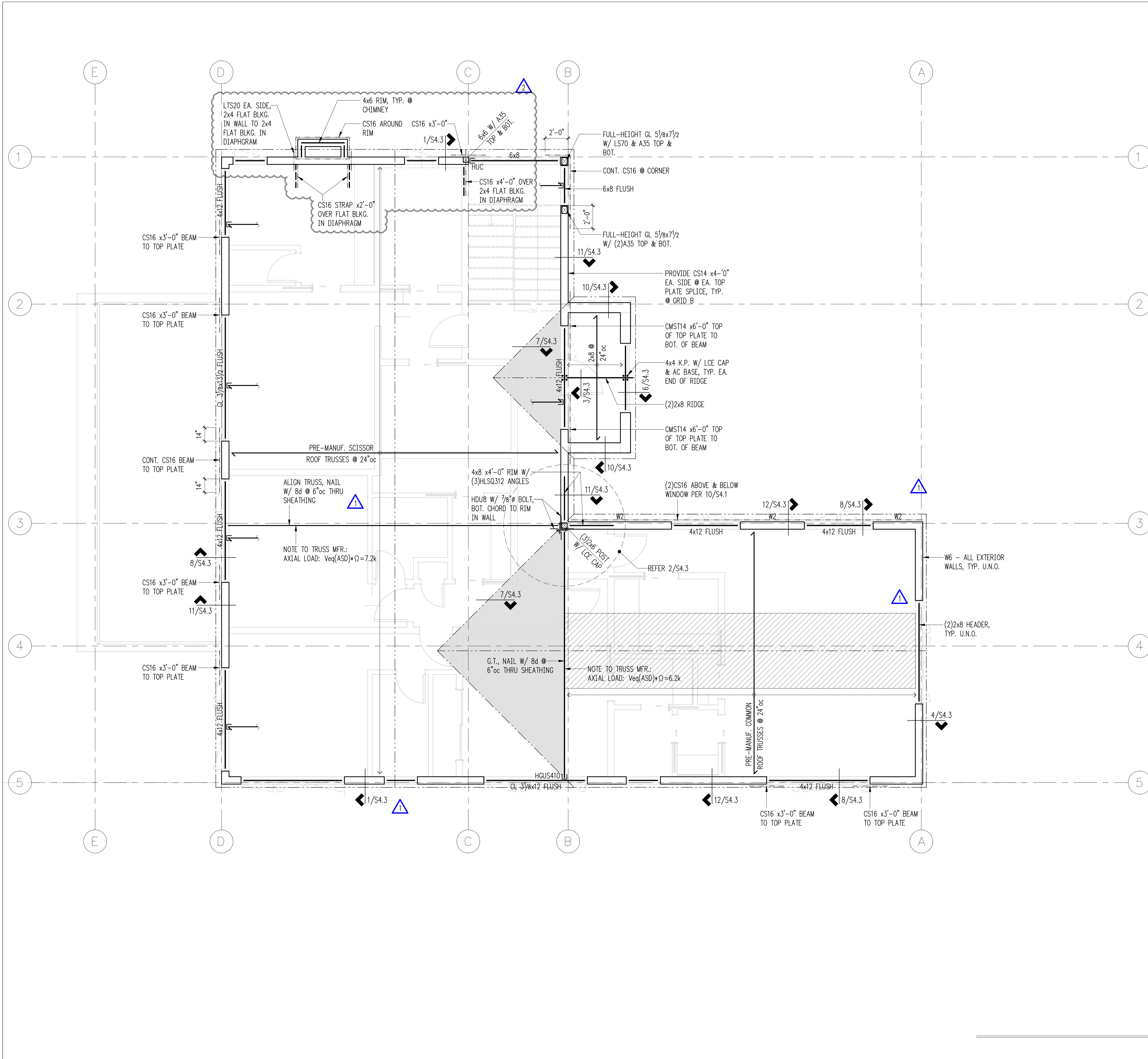
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:
PERMIT

SHEET TITLE:
Roof Framing Plan

SCALE: 1/4" = 1'-0" U.N.O.
DATE: December 14, 2020
PROJECT NO: 01519-2020-15
SHEET NO:

S2.4



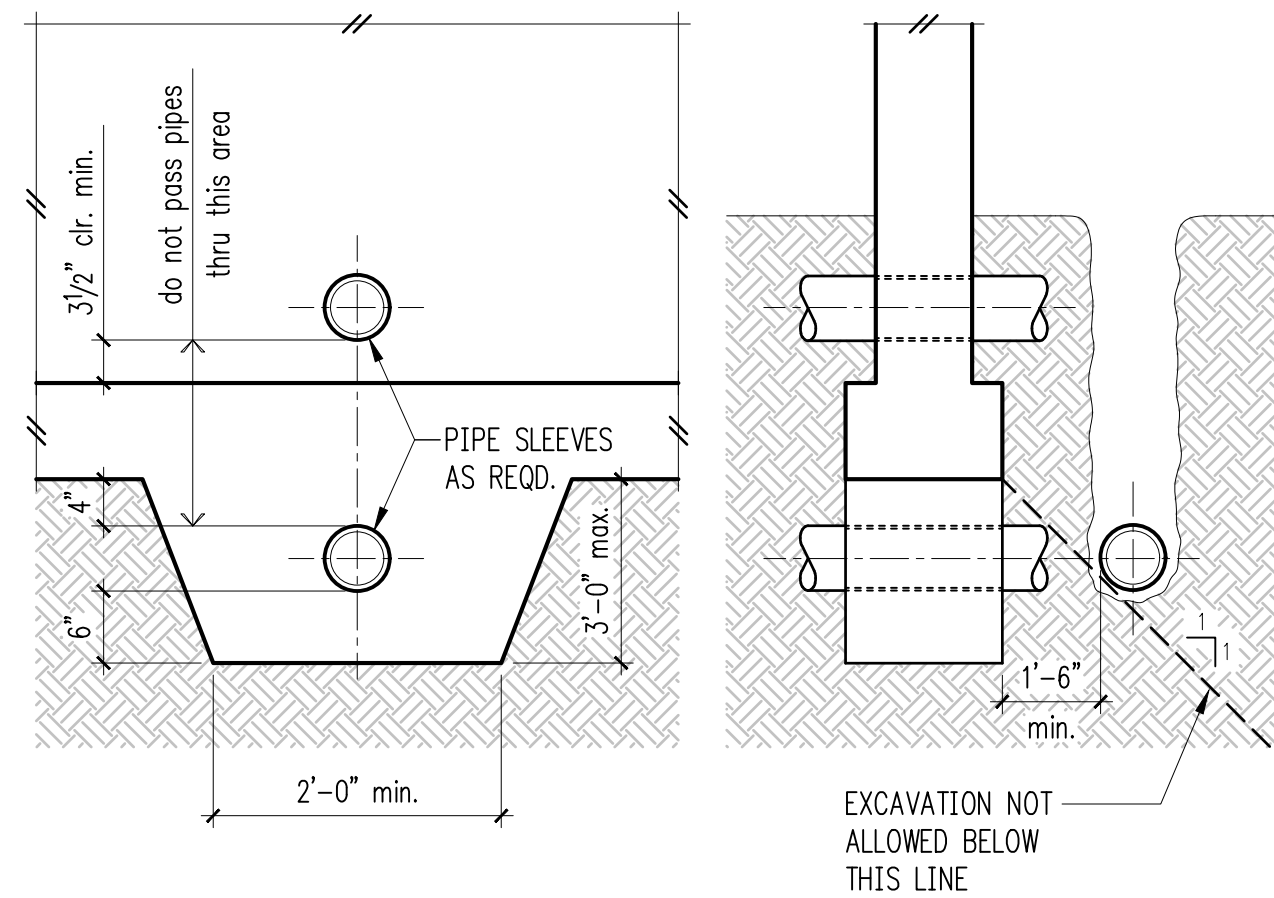
Legend

- STRUCTURAL WALL OR POST BELOW
- NON-STRUCTURAL WALL BELOW
- SHEARWALL PER 12/S4.1
- SPAN DIRECTION
- EXTENT OF JOISTS
- HEADER/BEAM PER PLAN
- HANGER
- GIRDER TRUSS
- OVERFRAME W/ 2x8 @ 24"oc. POST DOWN TO FRAMING BELOW @ 4'-0"oc
- WHERE DISTANCE FROM TOP OF BOTTOM CHORD TO BOTTOM OF TOP CHORD IS EQUAL TO OR GREATER THAN 42", UNINHABITABLE ATTIC STORAGE LOADING SHALL APPLY

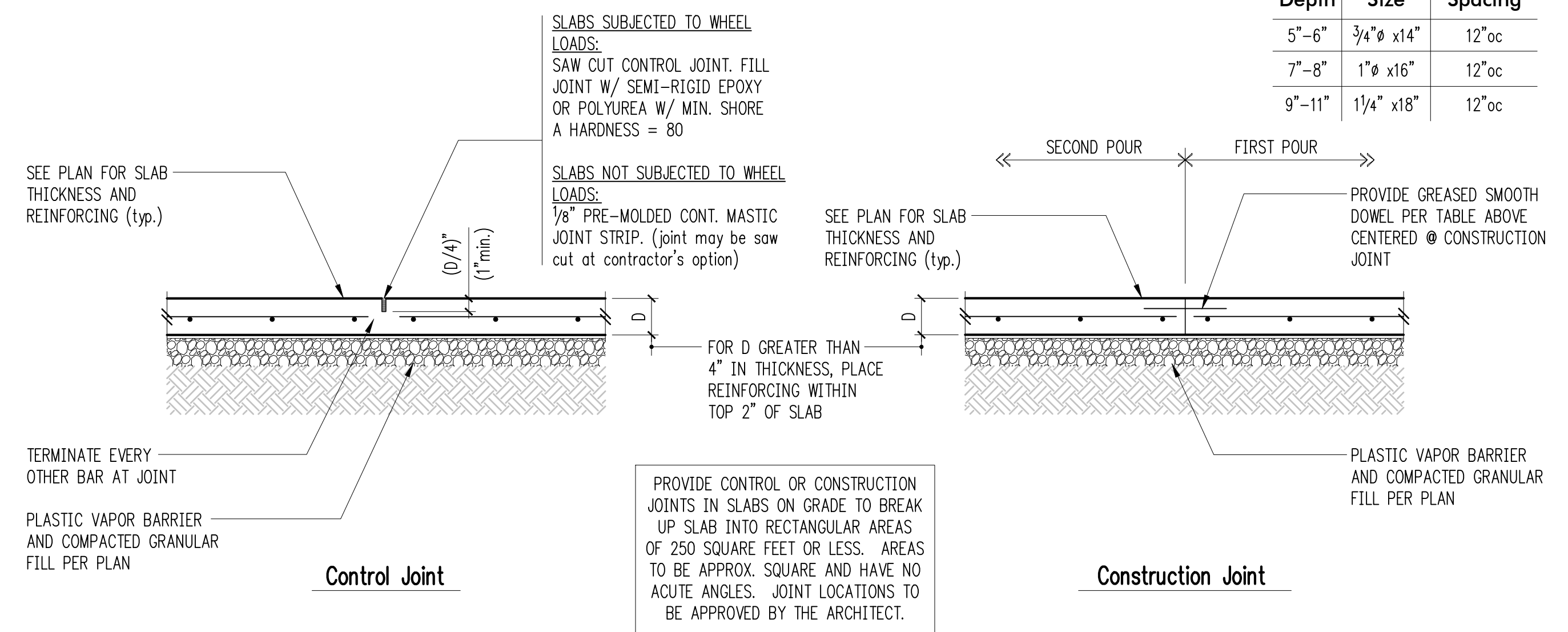
Plan Notes

1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. "W_" INDICATES PLYWOOD SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE FOR WALL ATTACHMENTS. ALL EXTERIOR WOOD FRAMED WALLS ARE W6, U.O.N.
4. PROVIDE (2) BEARING STUDS AT EACH END OF ALL HEADERS AND BEAMS OVER 3'-0" IN LENGTH, U.O.N.
5. PROVIDE LCE COLUMN CAP AND BASE AT ALL BEAM TO COLUMN CONNECTIONS U.O.N.
6. ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.
7. TYPICAL ROOF FRAMING CONSISTS OF ROOFING PER ARCHITECTURAL DRAWINGS OVER 1/2" CDX OR 7/16" O.S.B. APA RATED SHEATHING (EXPOSURE 1), FACE GRAIN PERPENDICULAR TO FRAMING PER PLAN, U.O.N.
8. NAIL ROOF SHEATHING WITH 8D AT 6" O.C. AT ALL FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12" O.C. FIELD.
9. PROVIDE H1 AT ENDS OF ALL RAFTERS OR TRUSSES, U.O.N.

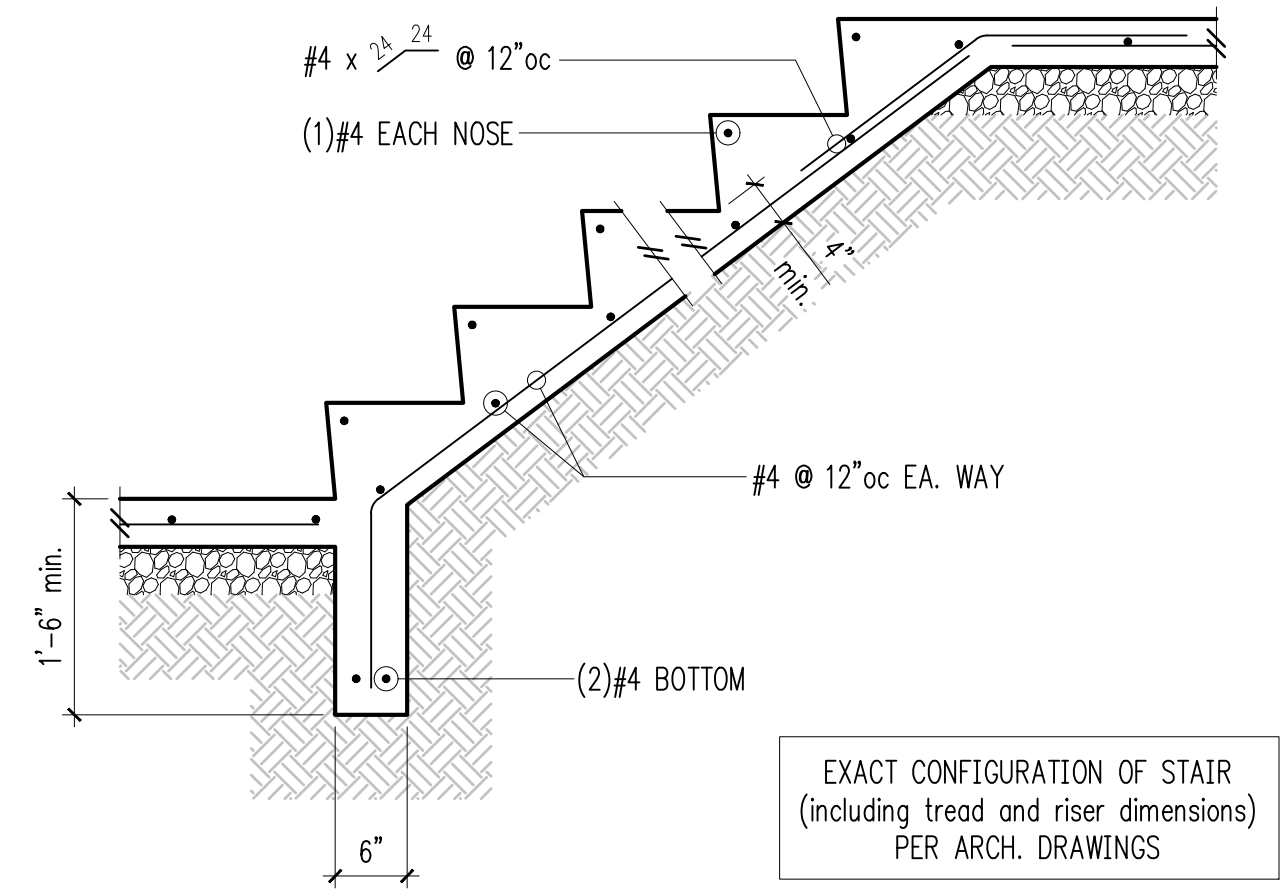




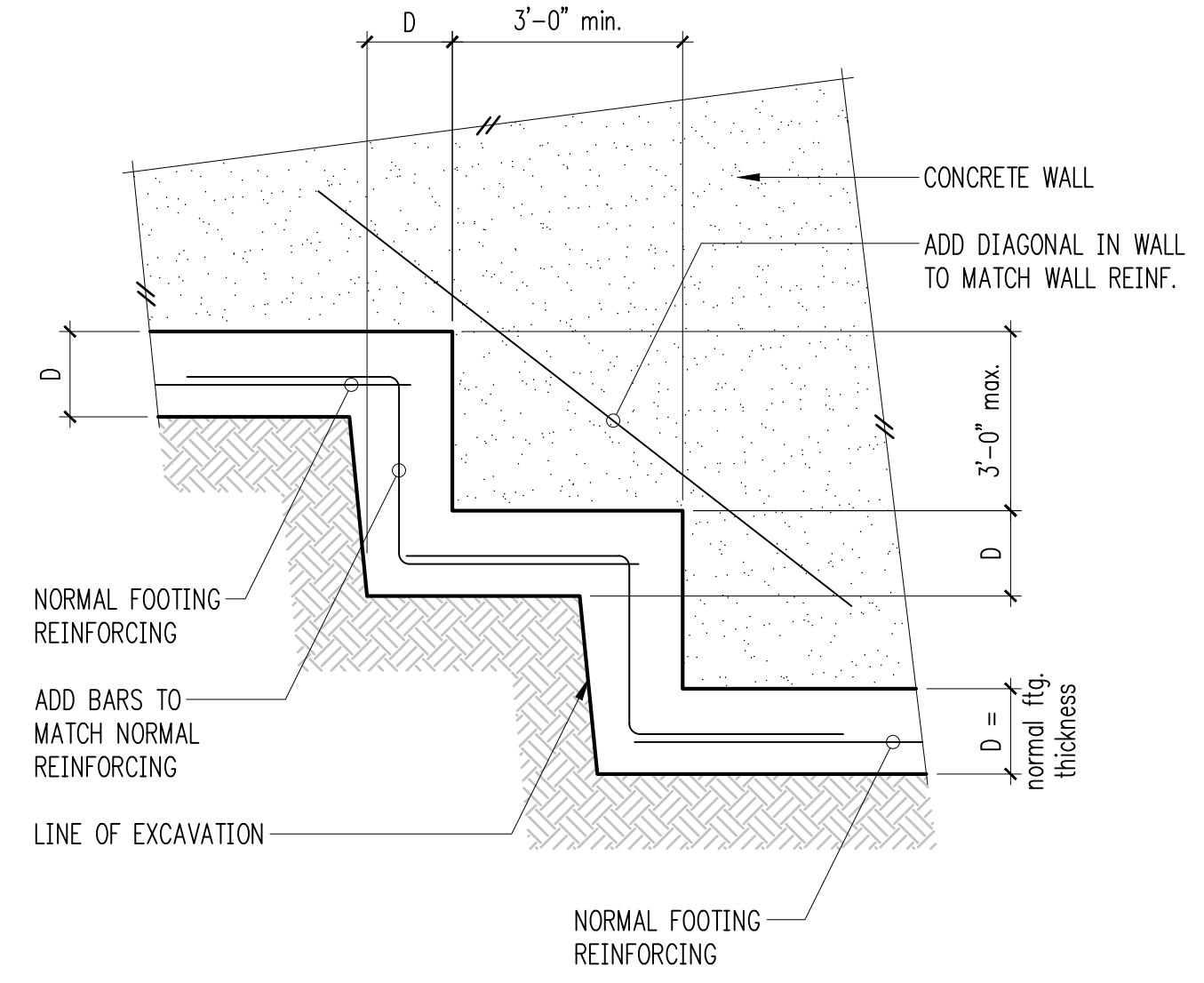
1 Pipe and Trench Locations 2



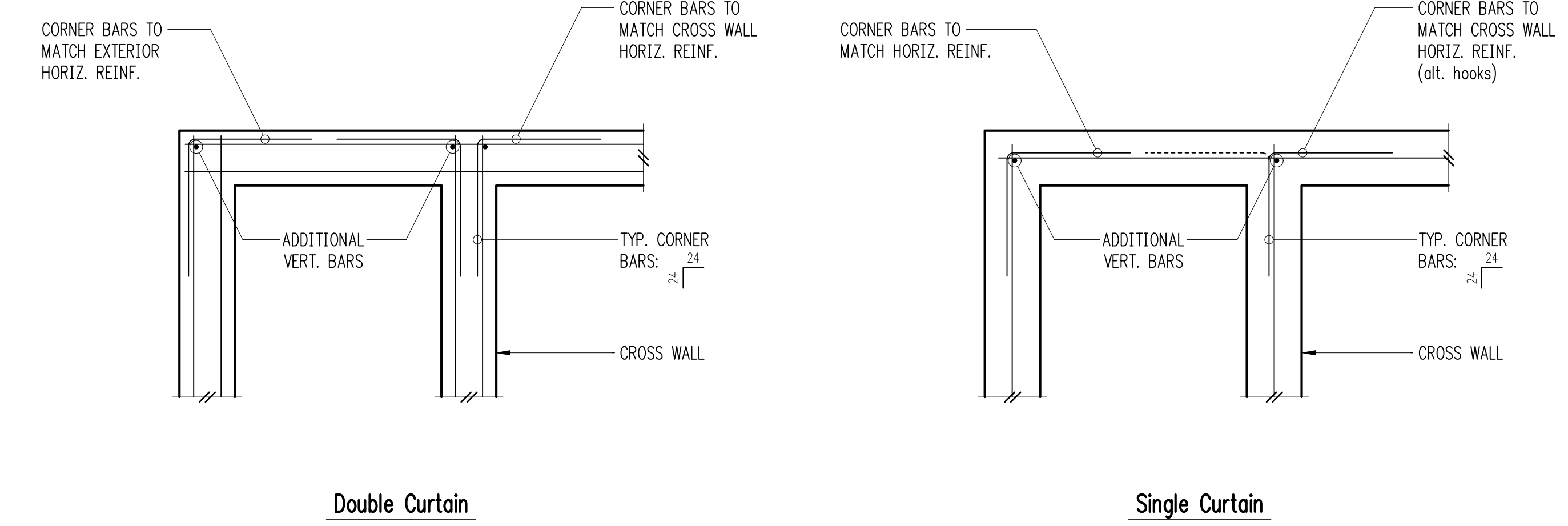
4 Typical Slab Joints (rebar)



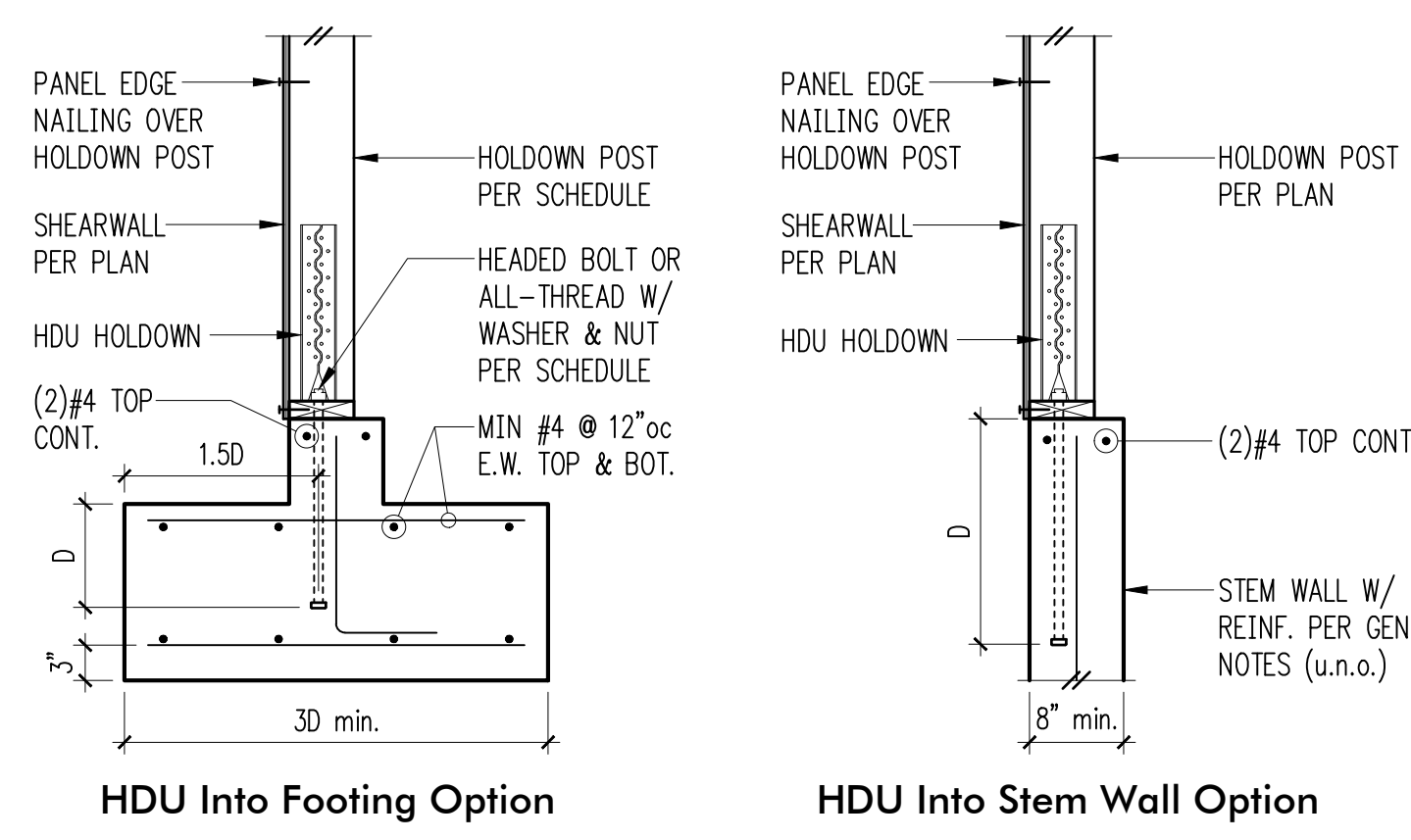
5 Typical Stair On Grade



6 Typical Stepped Footing



8 Typical Corner Bars at Concrete Walls and Footings

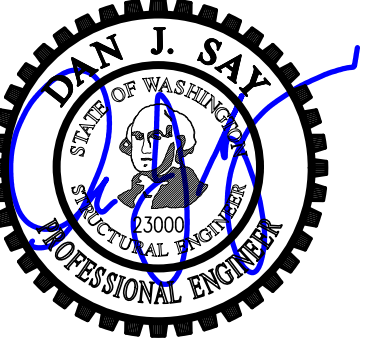


10 Typical HDU Holddown

Plan Mark	Screws	Anchor Bolt	Min. A.B. Embed (D)		Holddown Post	
			Stem Wall	Footing	if 2x4	if 2x6
HDU2-SDS2.5	(6)SDS 1/4"x2 1/2"	3/8"Ø	12"	4"	(2) 2x4	(2) 2x6
HDU4-SDS2.5	(10)SDS 1/4"x2 1/2"	3/8"Ø	SB9x24	6"	4x4	4x6
HDU5-SDS2.5	(14)SDS 1/4"x2 1/2"	3/8"Ø	SB9x24	7"	4x4	4x6
HDU8-SDS2.5	(20)SDS 1/4"x2 1/2"	7/8"Ø	SSTB28	8"	4x6	6x6
HDU11-SDS2.5	(30)SDS 1/4"x2 1/2"	1"Ø	SB1x30	10"	4x8	6x6
HDU14-SDS2.5	(36)SDS 1/4"x2 1/2"	1"Ø	N/A	12"	4x8	6x6

① MINIMUM SIZE OF POST AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.

12 Typical HDU Holddown



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

1	Corrections	May 4, 2021
2	Corrections 2	Aug. 13, 2021

PROJECT TITLE:
Kahan Spec Home
 8163 West Mercer Way
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
PERMIT

SHEET TITLE:
Typical Concrete Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: December 14, 2020
 PROJECT NO: 01519-2020-15
 SHEET NO:



DESIGN: HAA, BDM
DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:

1	Corrections	May 4, 2021
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DPD:

PROJECT TITLE:
Kahan Spec Home
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Mercer Island, WA 98040

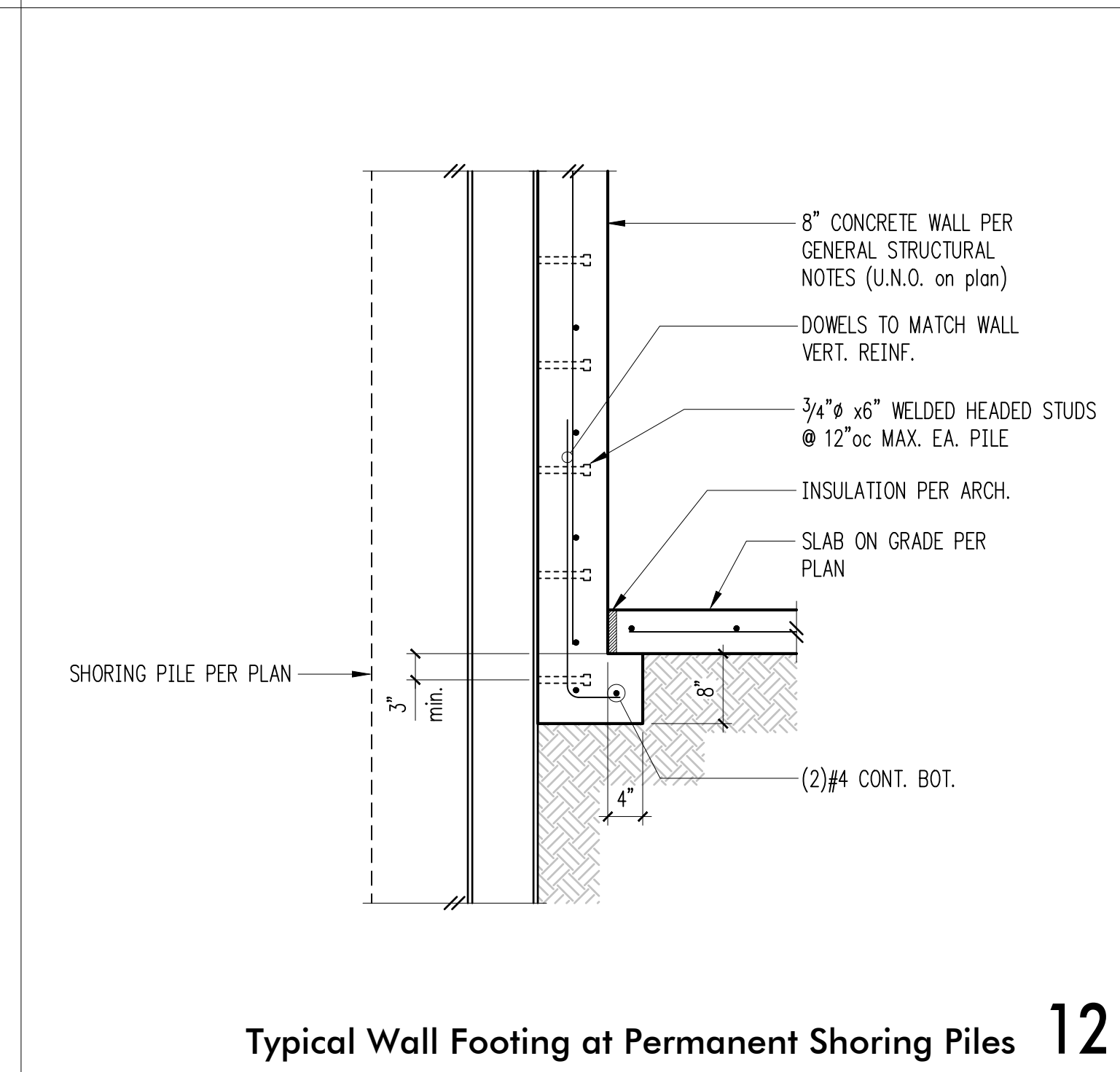
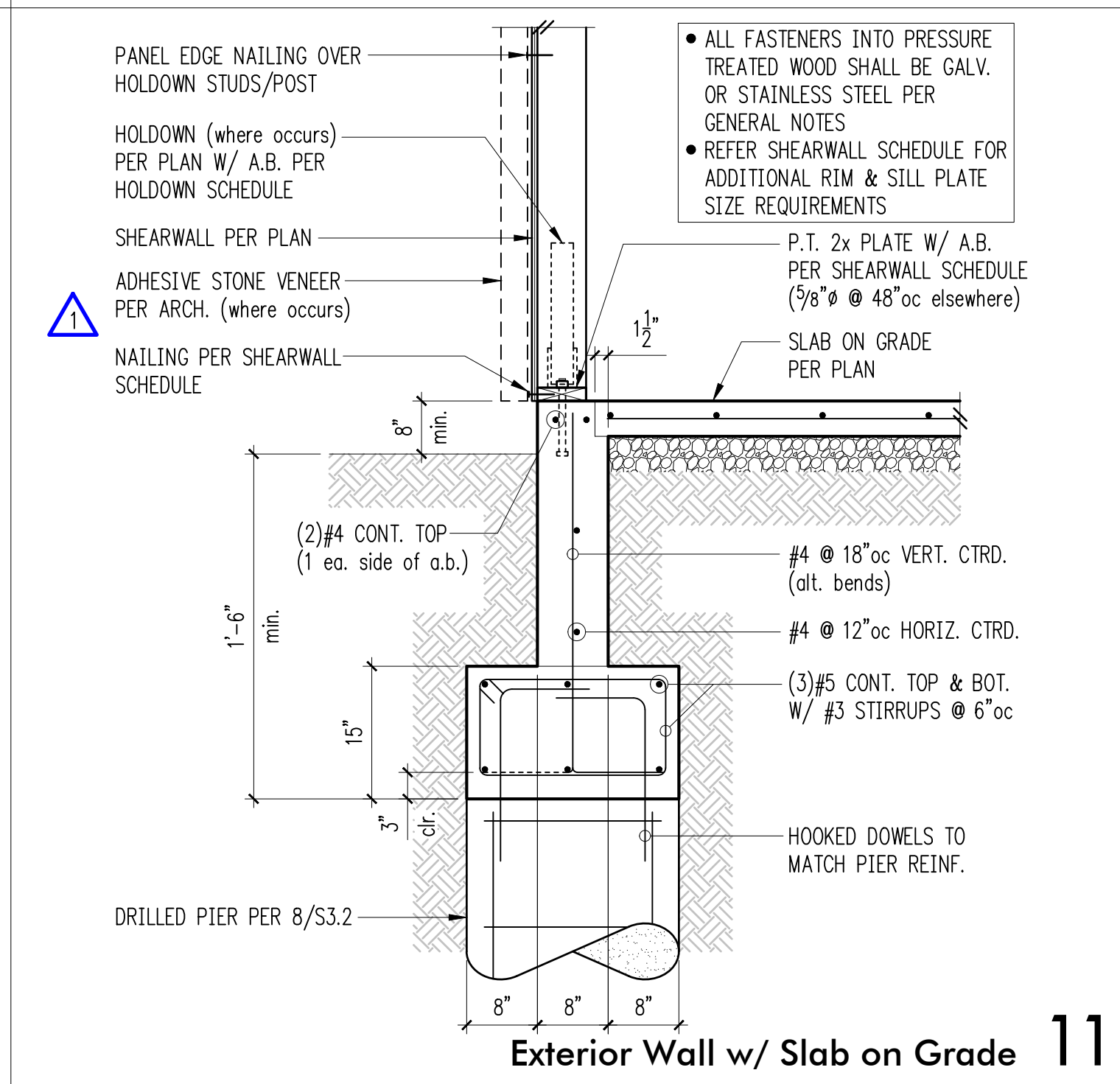
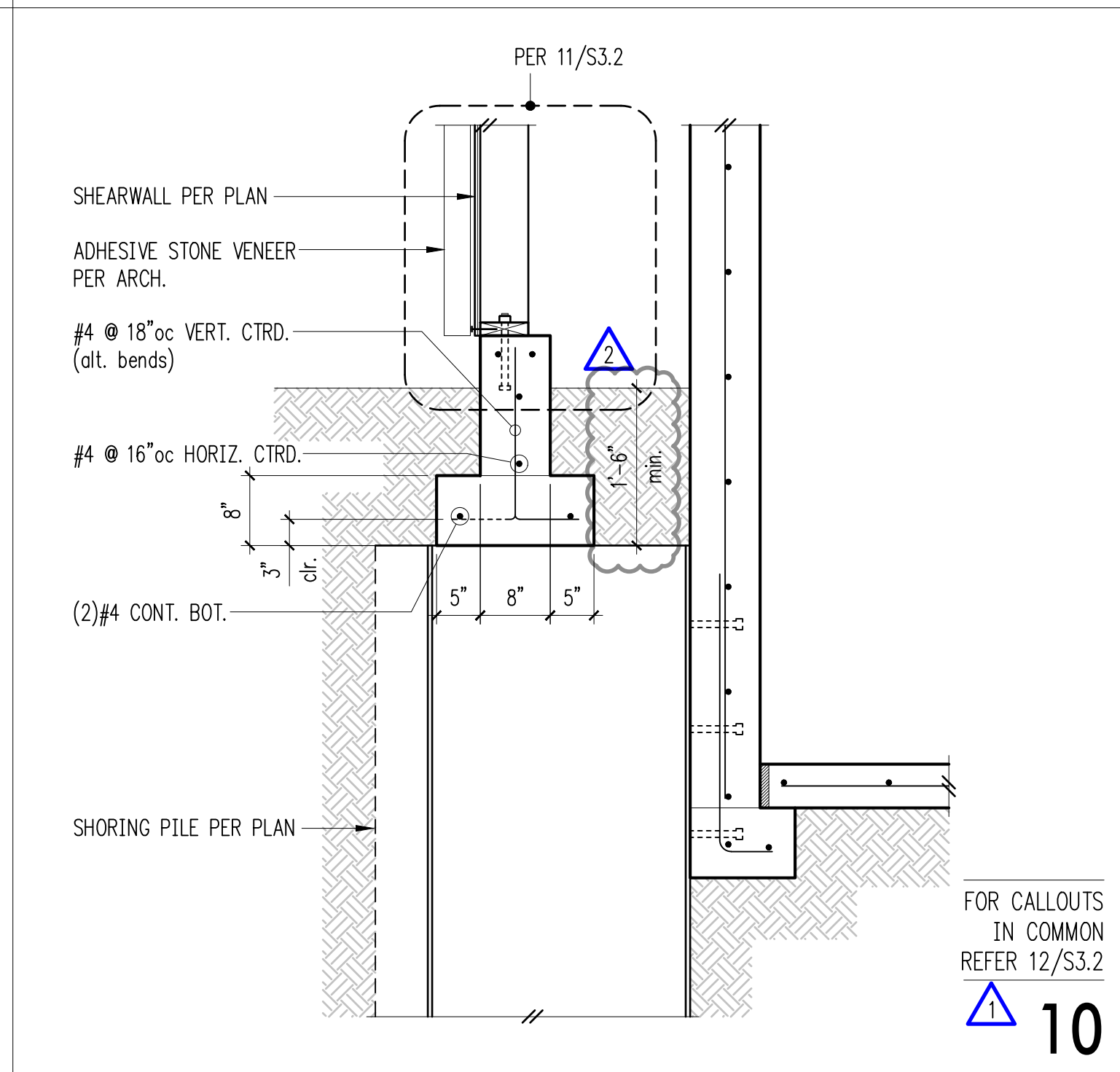
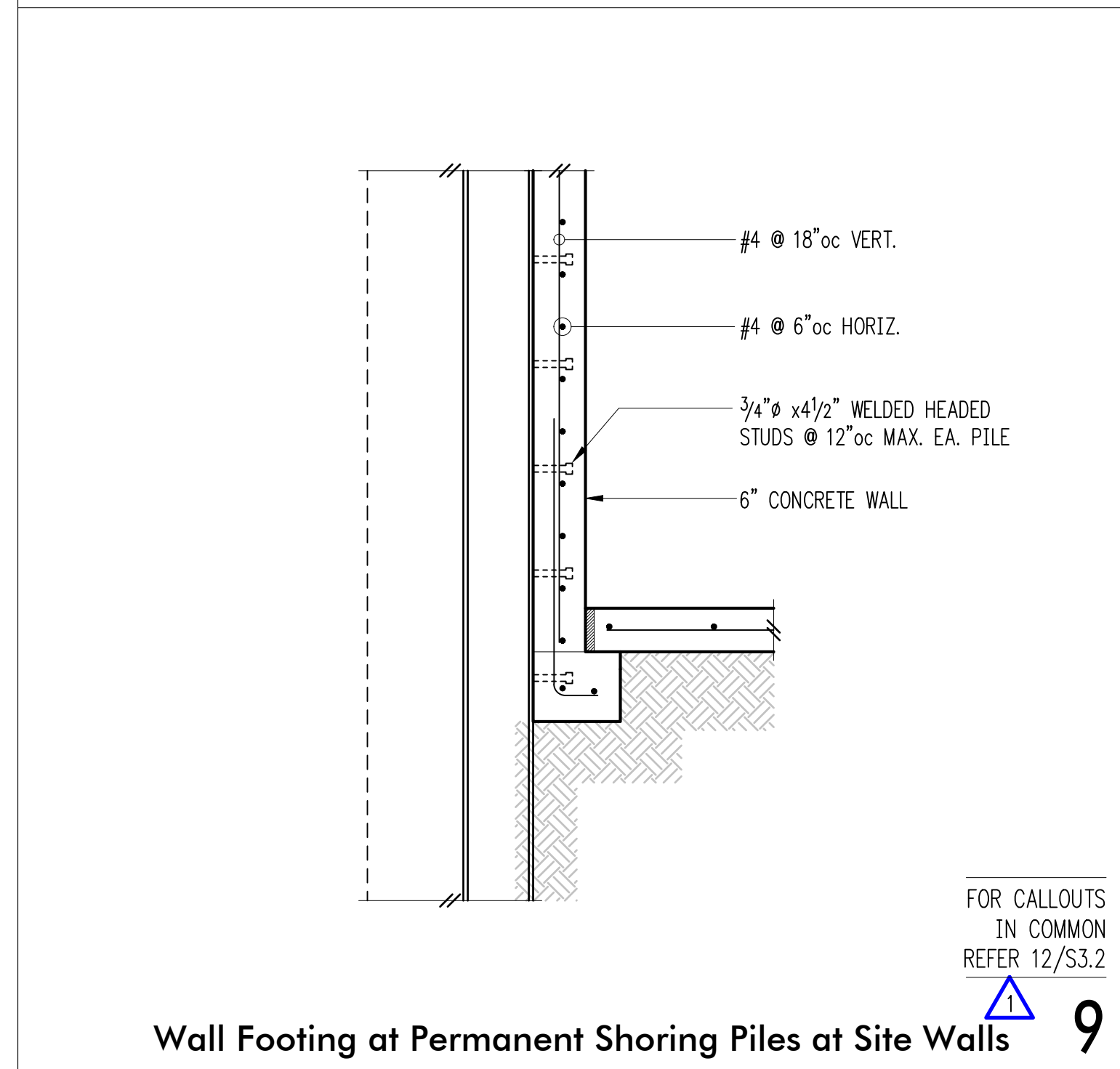
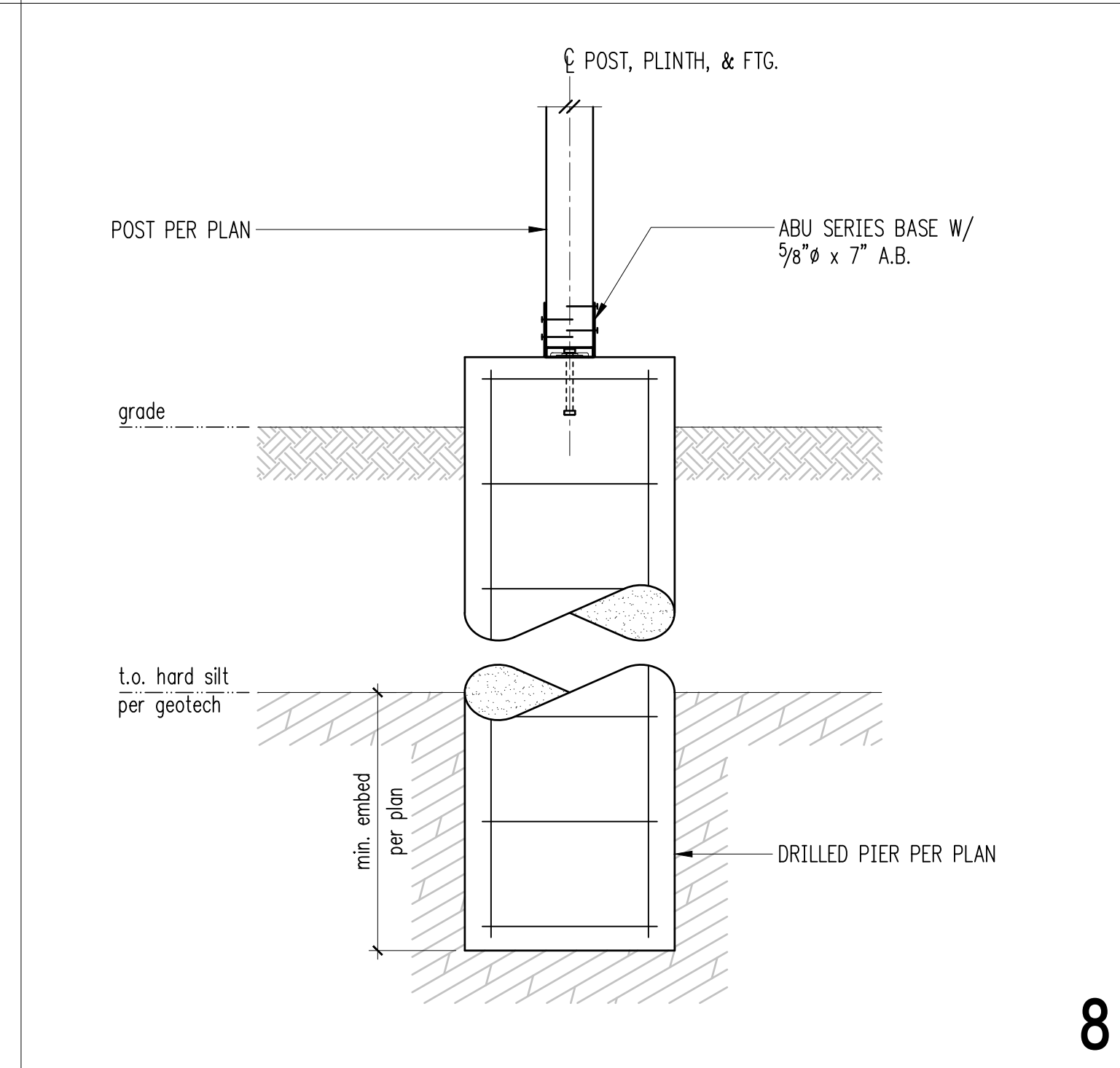
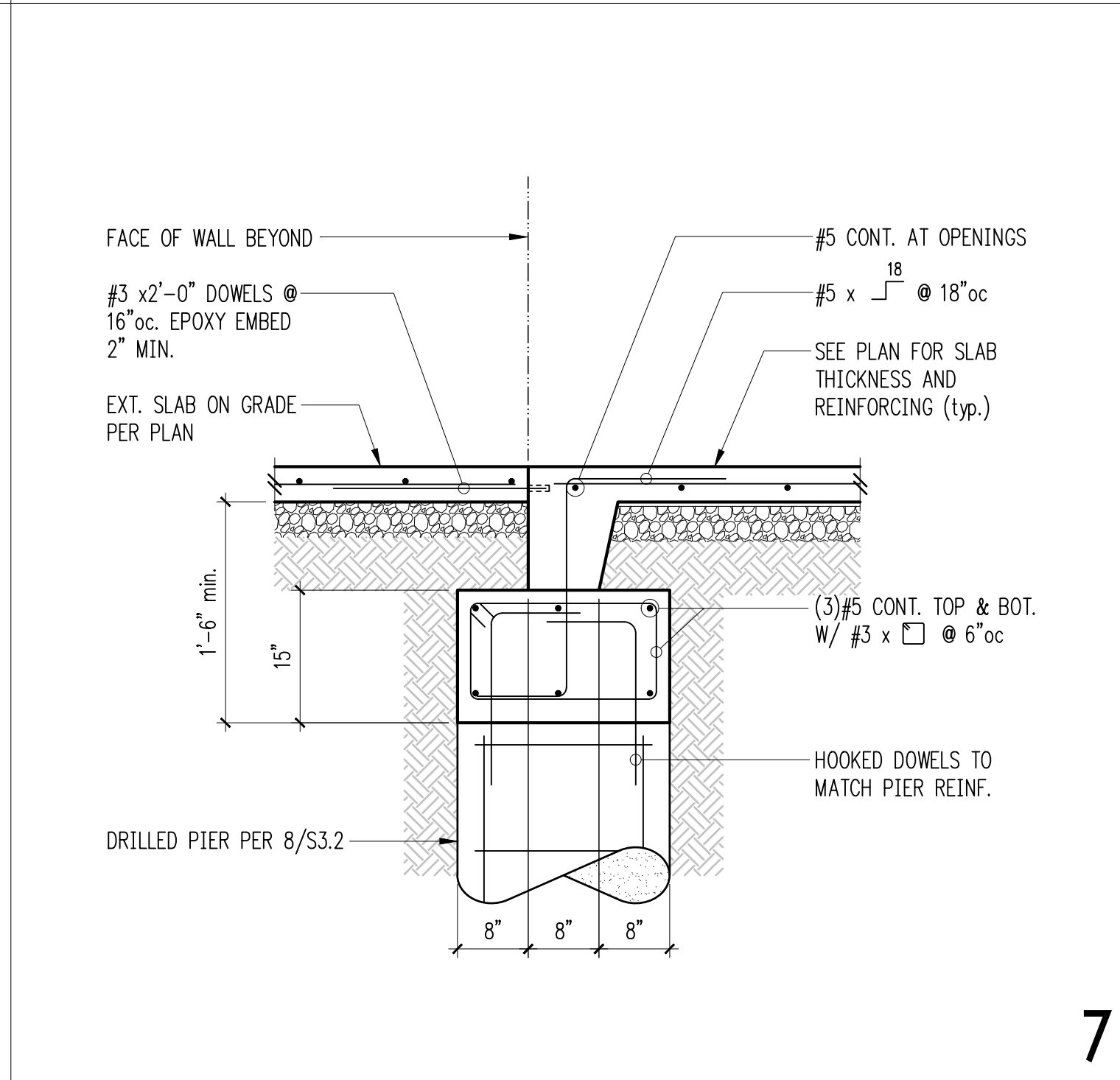
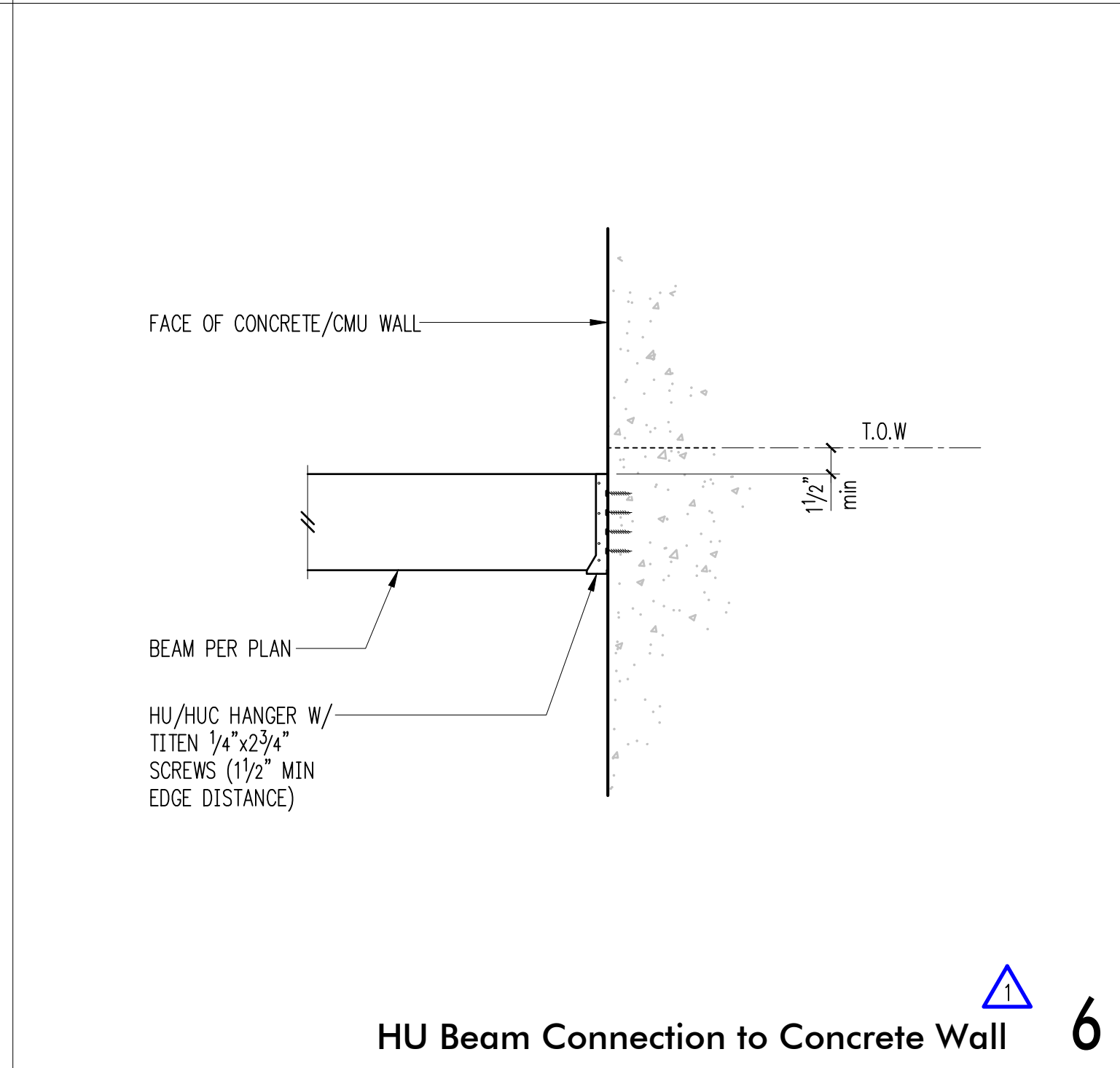
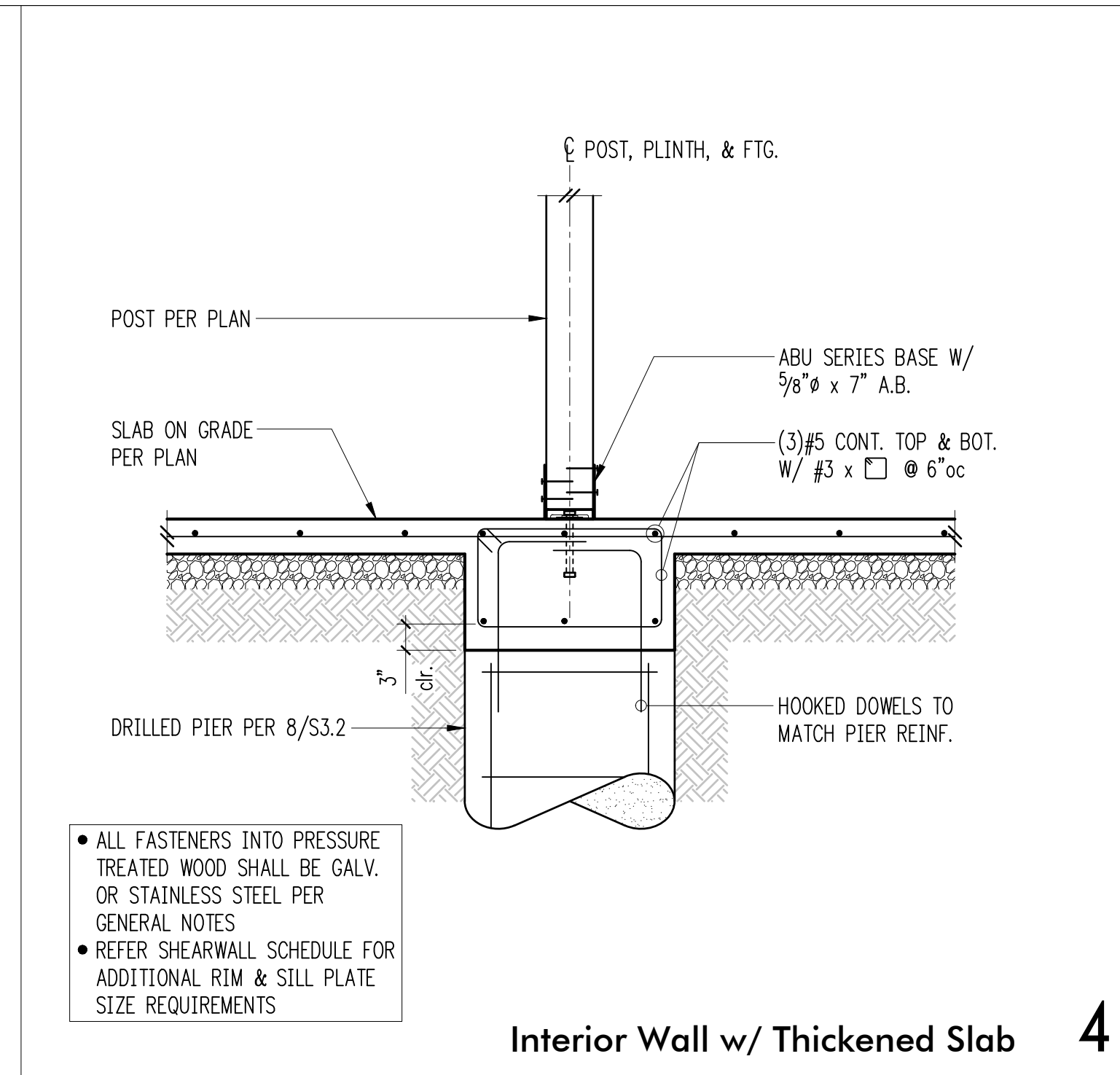
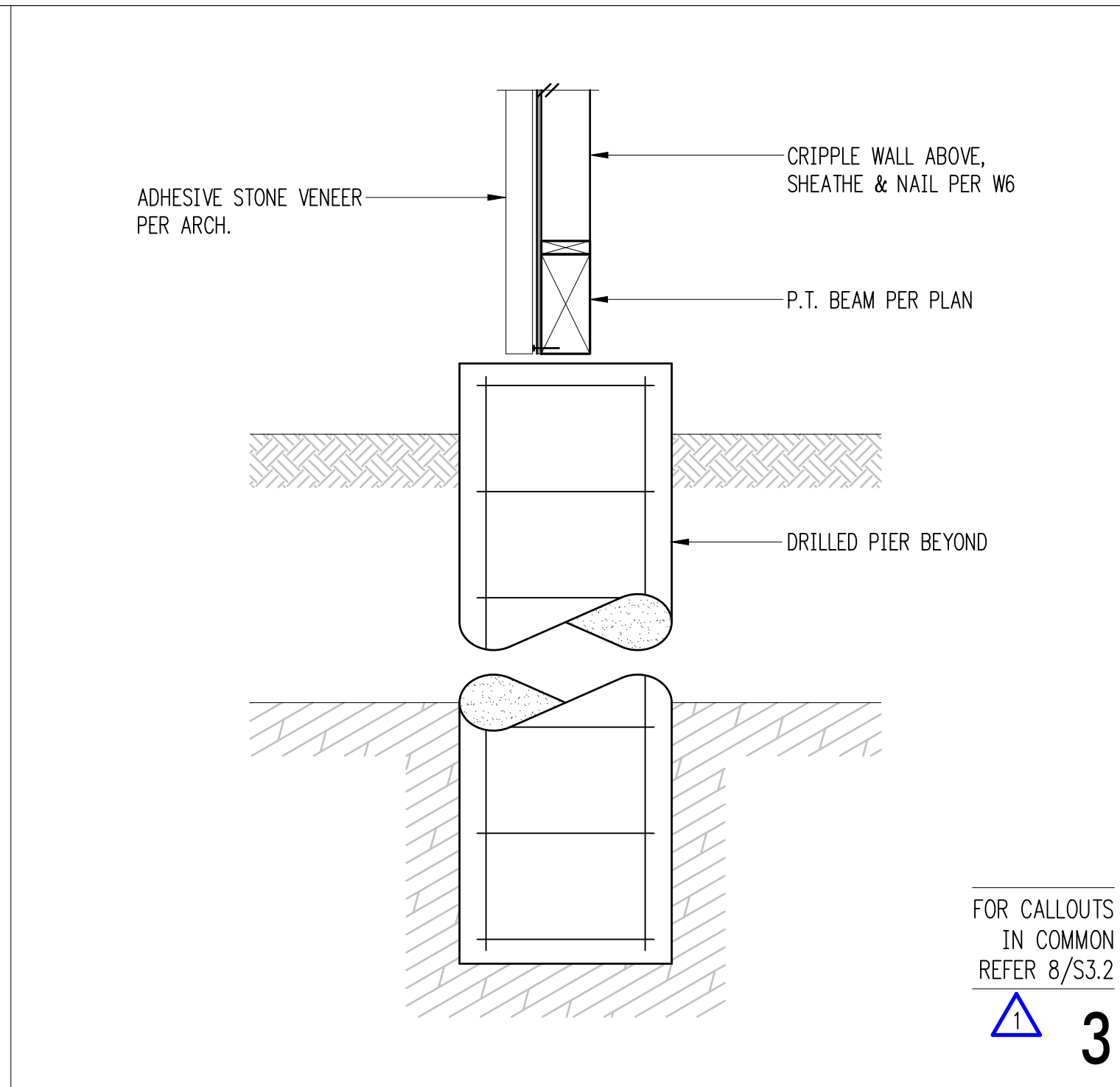
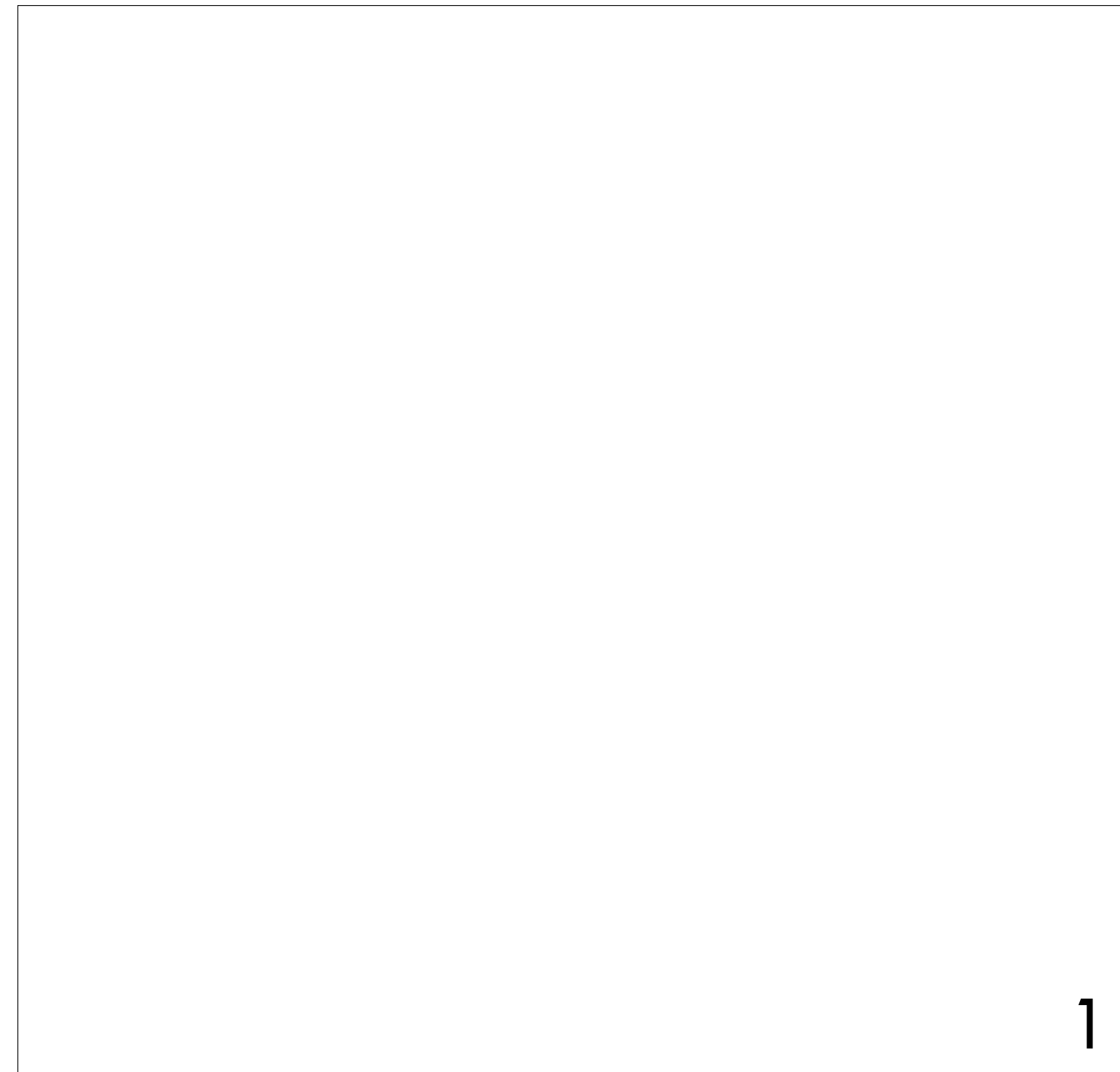
ARCHITECT:
Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

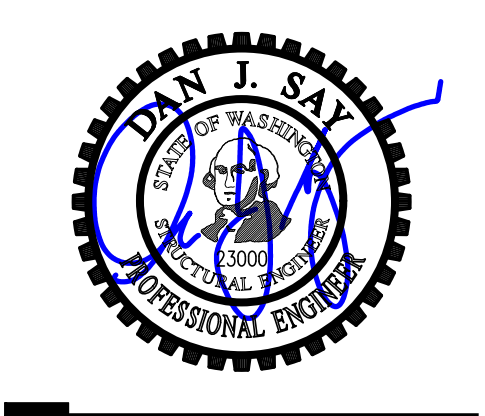
ISSUE:
PERMIT

SHEET TITLE:
Foundation Details

SCALE: 3/4" = 1'-0" U.N.O.
DATE: December 14, 2020
PROJECT NO: 01519-2020-15
SHEET NO:

S3.2





DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

1	Corrections	May 4, 2021
2	Corrections 2	Aug. 13, 2021

DPD: _____

PROJECT TITLE:
Kahan Spec Home
 8163 West Mercer Way
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
PERMIT

SHEET TITLE:
Foundation Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: December 14, 2020
 PROJECT NO: 01519-2020-15
 SHEET NO:

S3.3

1

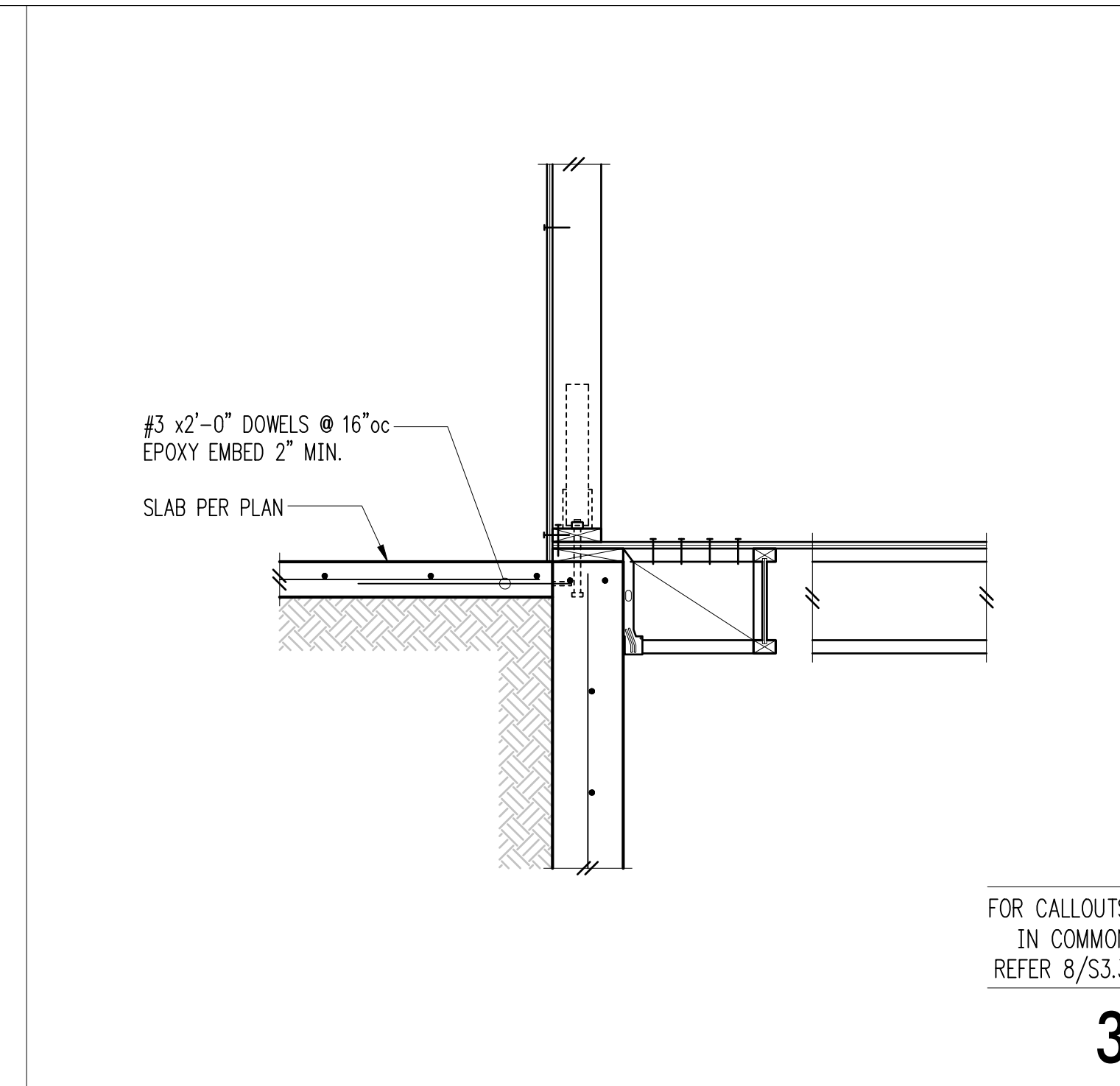
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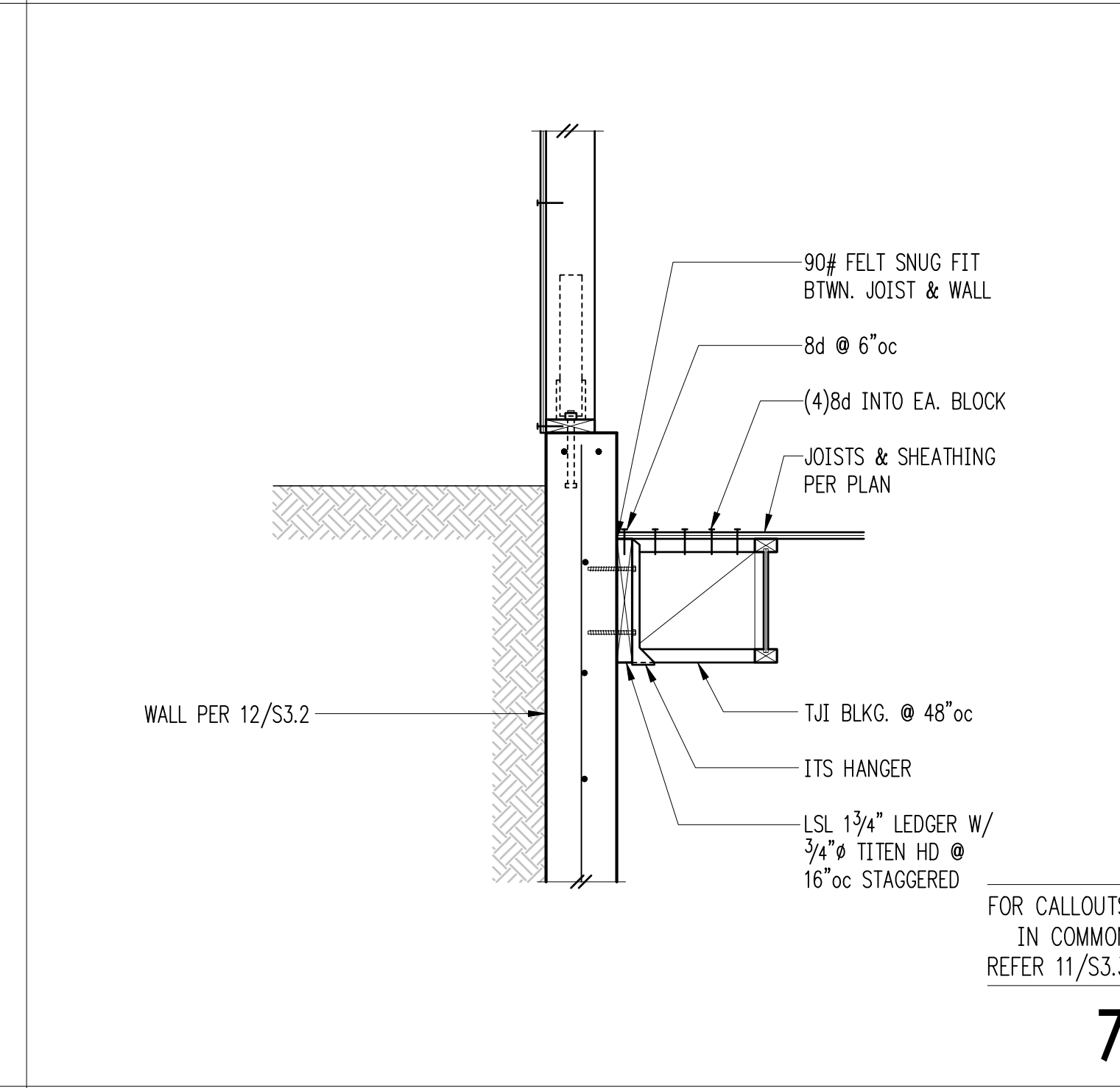
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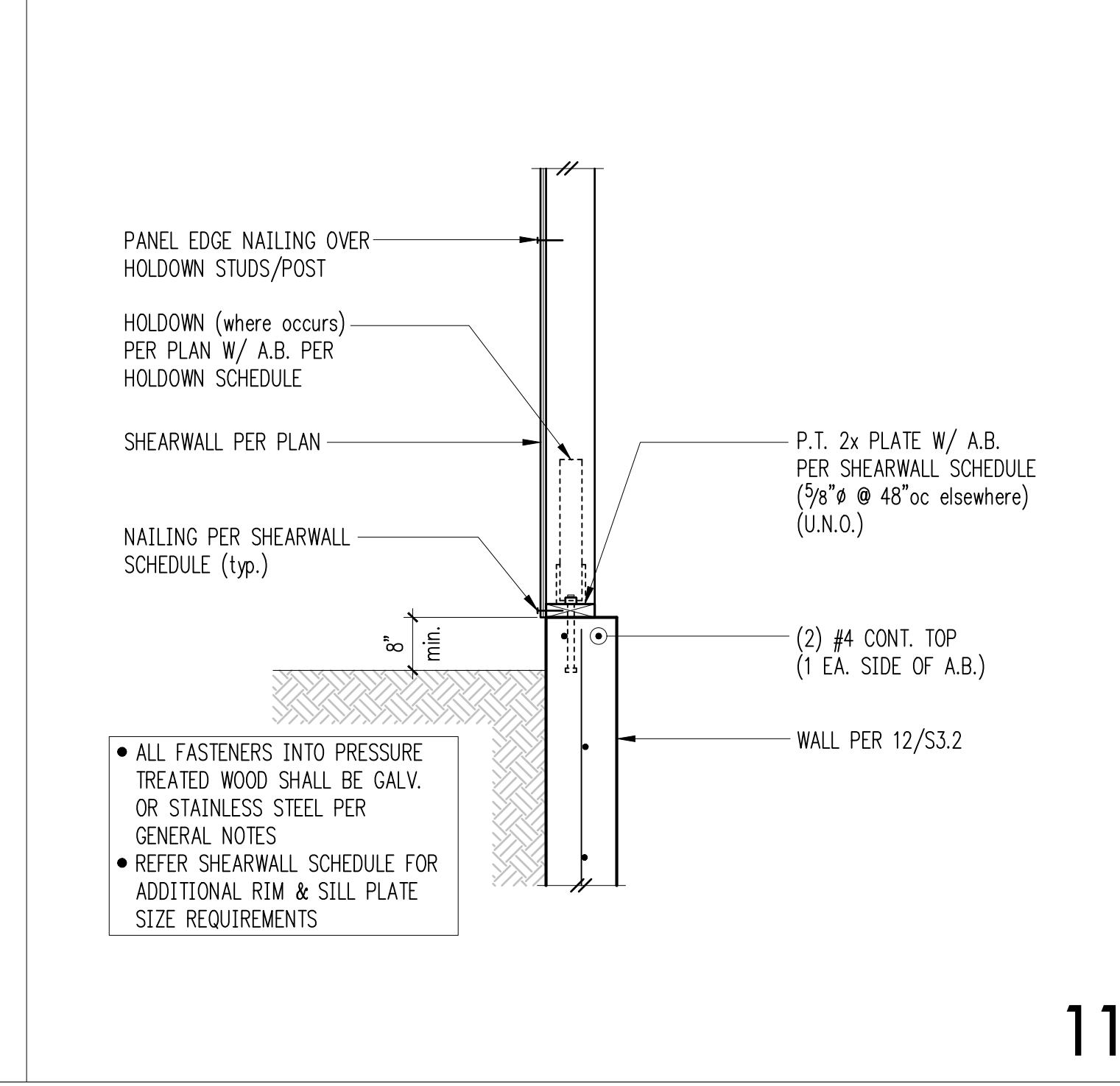
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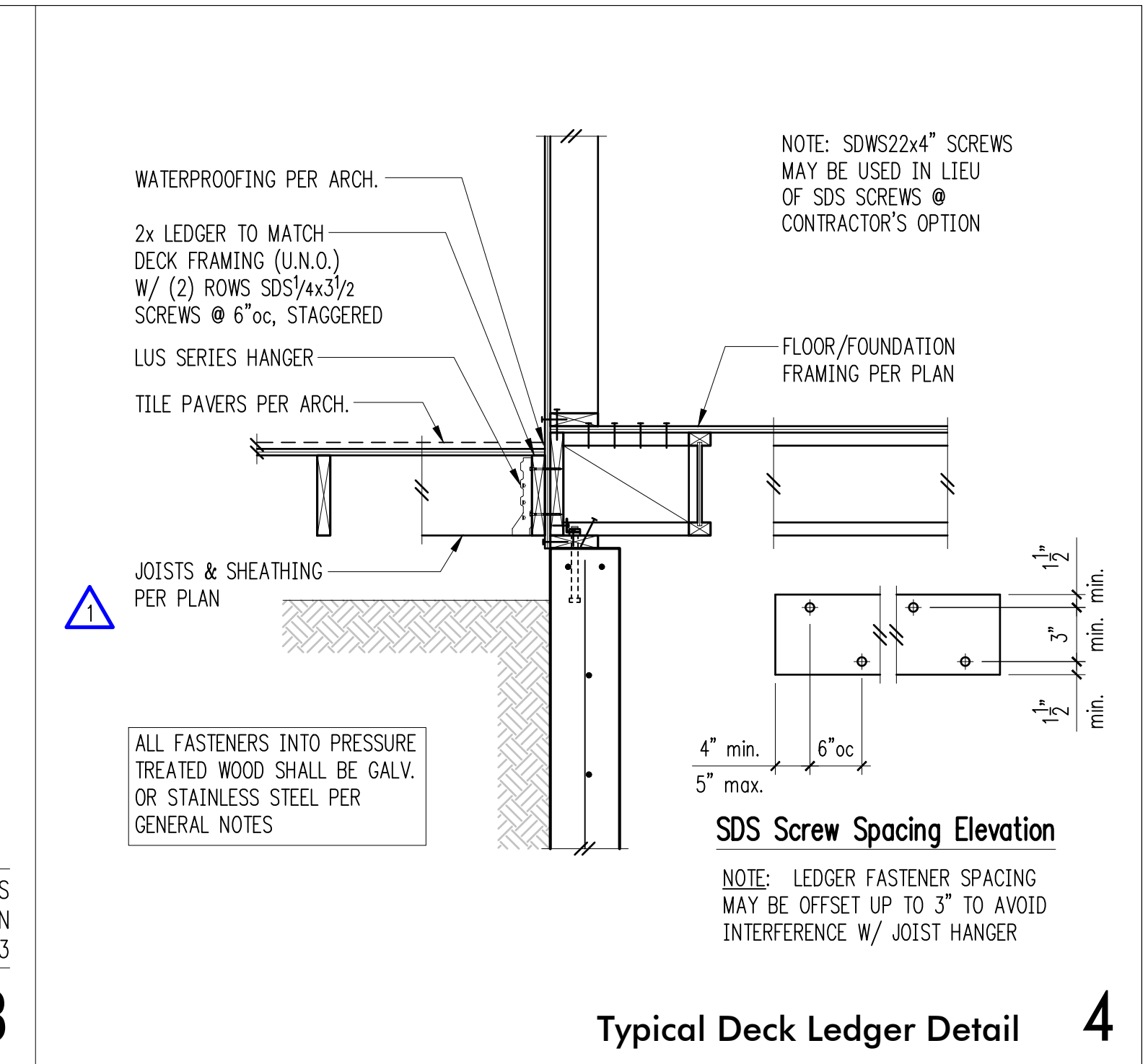
FOR CALLOUTS IN COMMON REFER 8/S3.3



FOR CALLOUTS IN COMMON REFER 11/S3.3



• ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES
 • REFER SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS



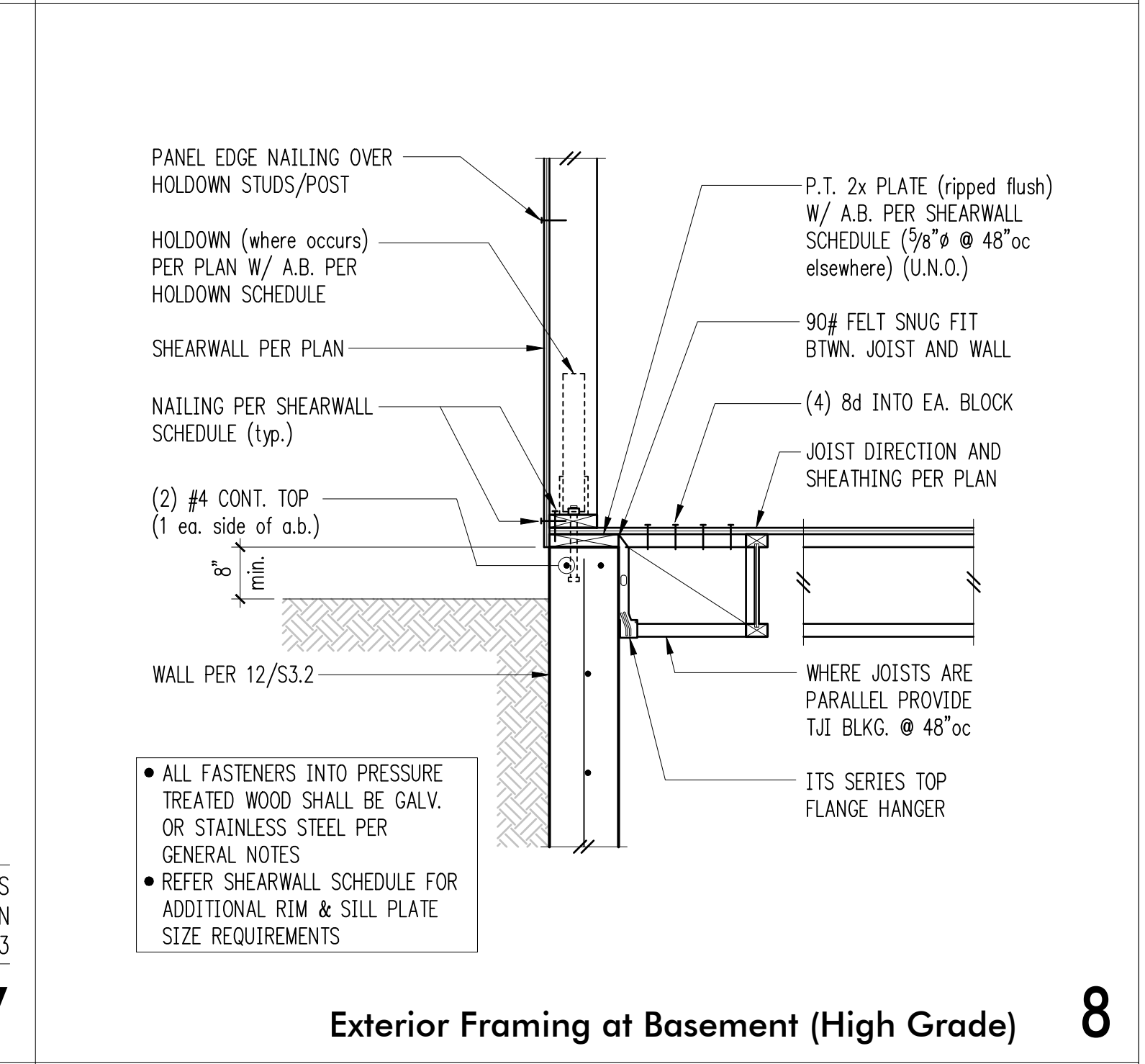
ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES

NOTE: SDS22x4" SCREWS MAY BE USED IN LIEU OF SDS SCREWS @ CONTRACTOR'S OPTION

SDS Screw Spacing Elevation

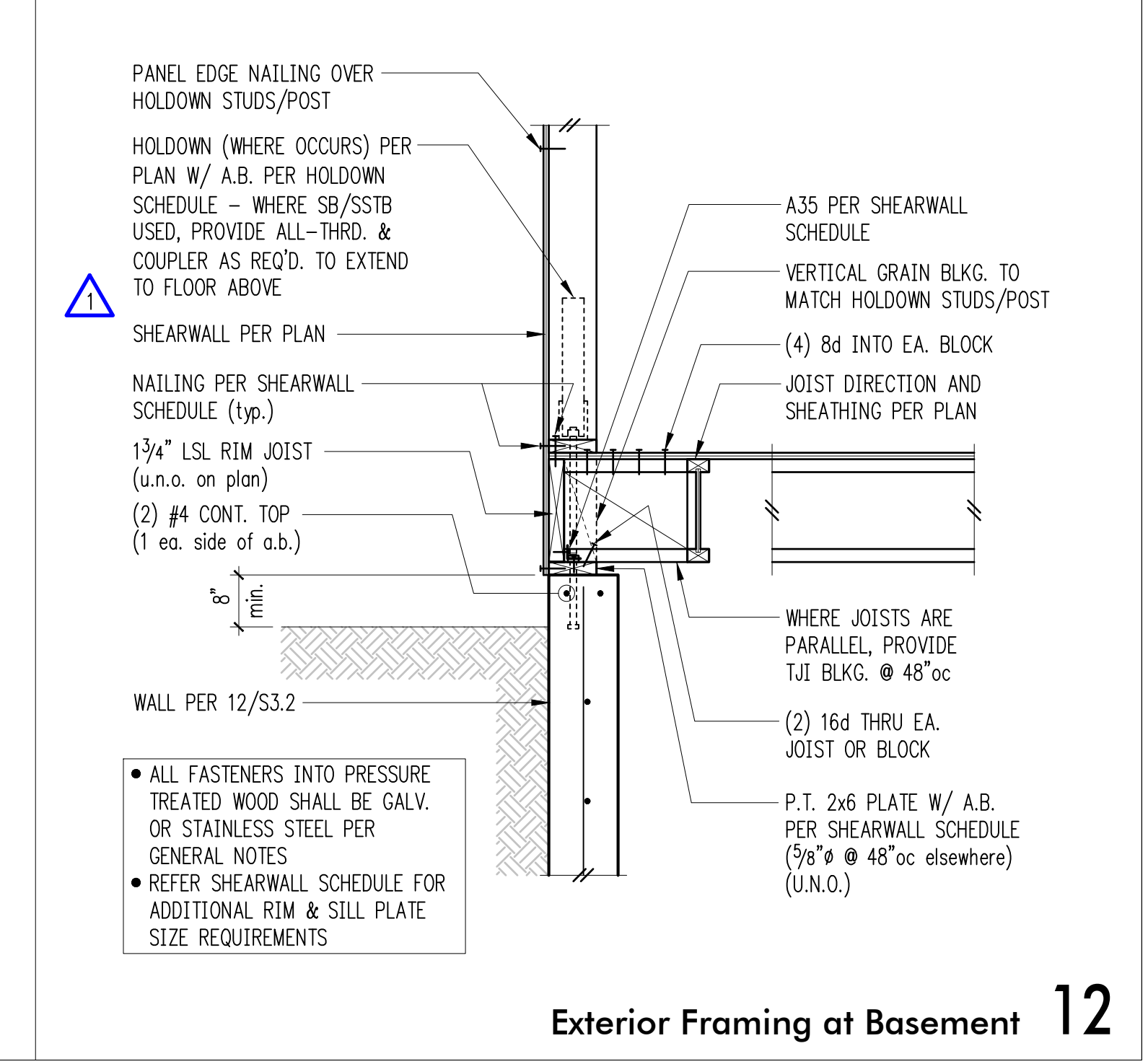
NOTE: LEDGER FASTENER SPACING MAY BE OFFSET UP TO 3" TO AVOID INTERFERENCE W/ JOIST HANGER

Typical Deck Ledger Detail 4



• ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES
 • REFER SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS

Exterior Framing at Basement (High Grade) 8



• ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES
 • REFER SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS

Exterior Framing at Basement 12

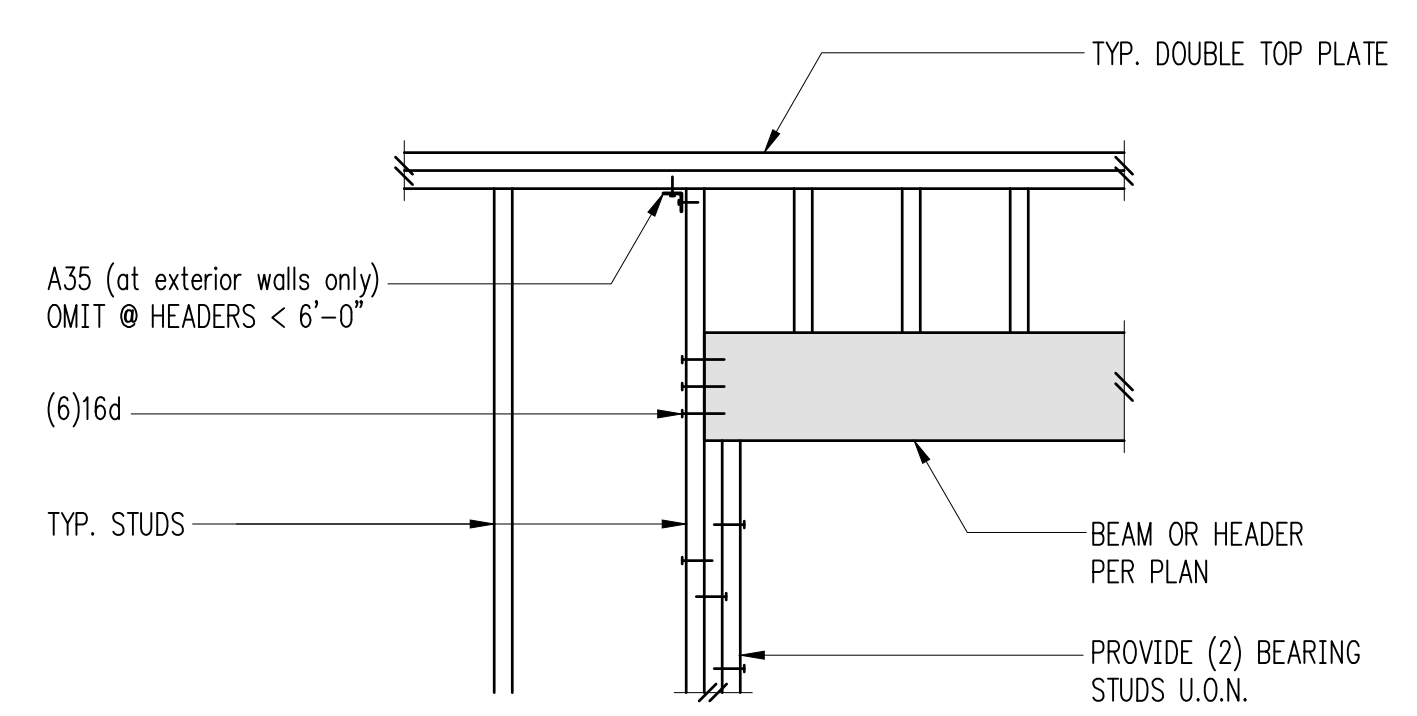


DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

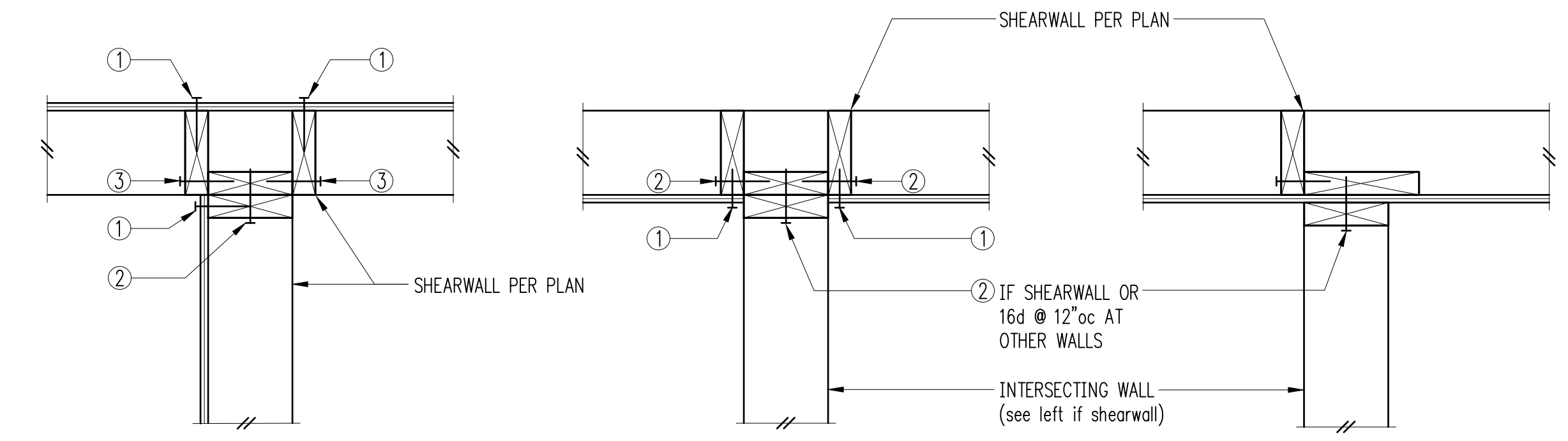
	A	B	C
PLAN VIEW			
SECTION			
# OF WOOD BMS (LVL)	2-1 3/4"	3-1 3/4"	4-1 3/4"
SDW22 SCREW SIZE	0.220x3	0.220x5	0.220x6
# OF SDW22 SCREWS	2	2	2
SPACING OF SDW22 SCREWS	12"OC	12"OC	12"OC

NOTES:
 - MIN. SCREW END DISTANCE = 6"
 NOTE: MAY USE SDS 1/4"
 @ CONTRACTORS OPTION

Sistering Schedule for Multi Beams (SDWS) 1

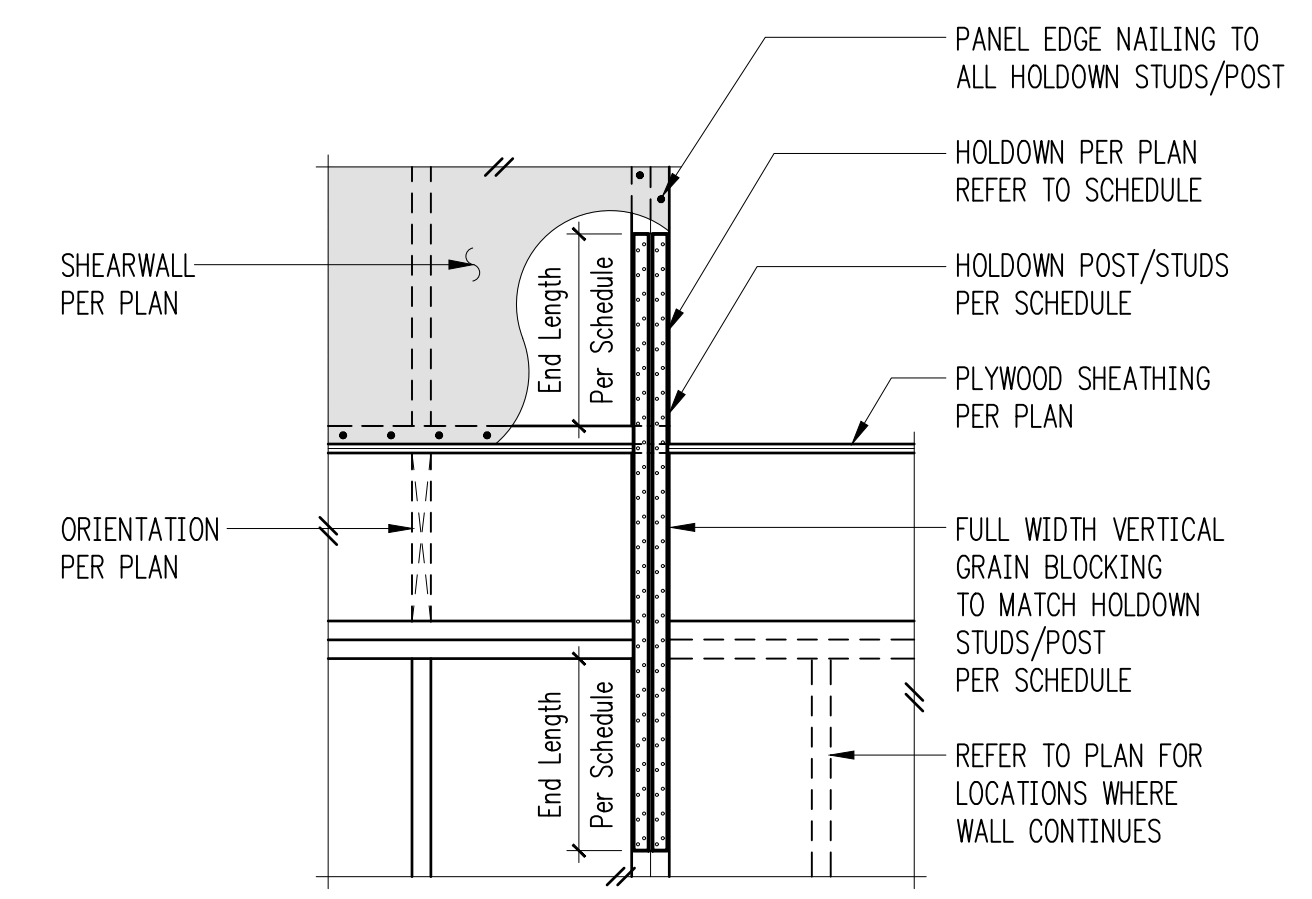


Typical Header Support w/2 Bearing Studs 2



- 1 PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- 2 BASE PLATE NAILING PER SHEARWALL SCHEDULE
- 3 16d @ 8"oc

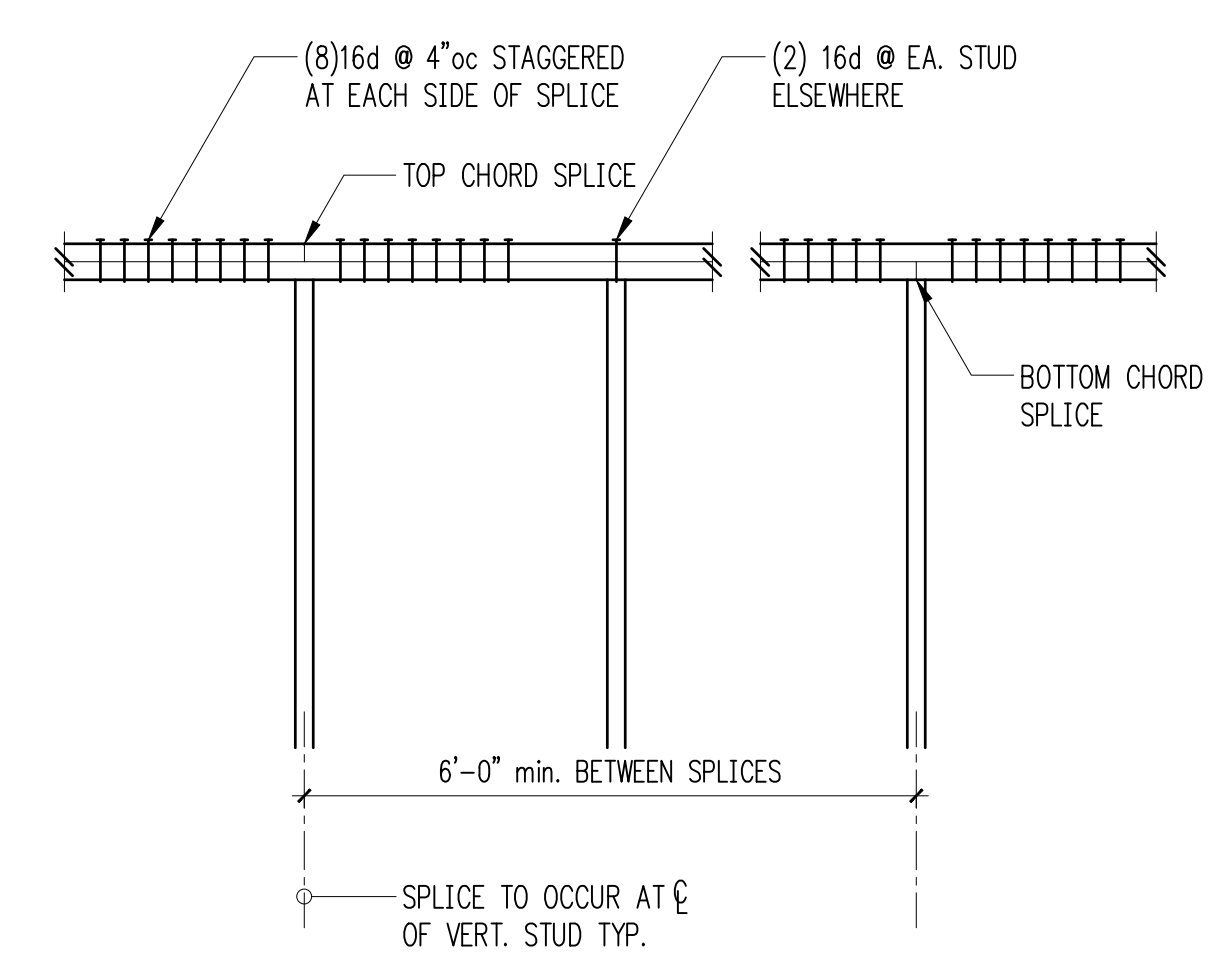
Typical Shearwall Intersections 4



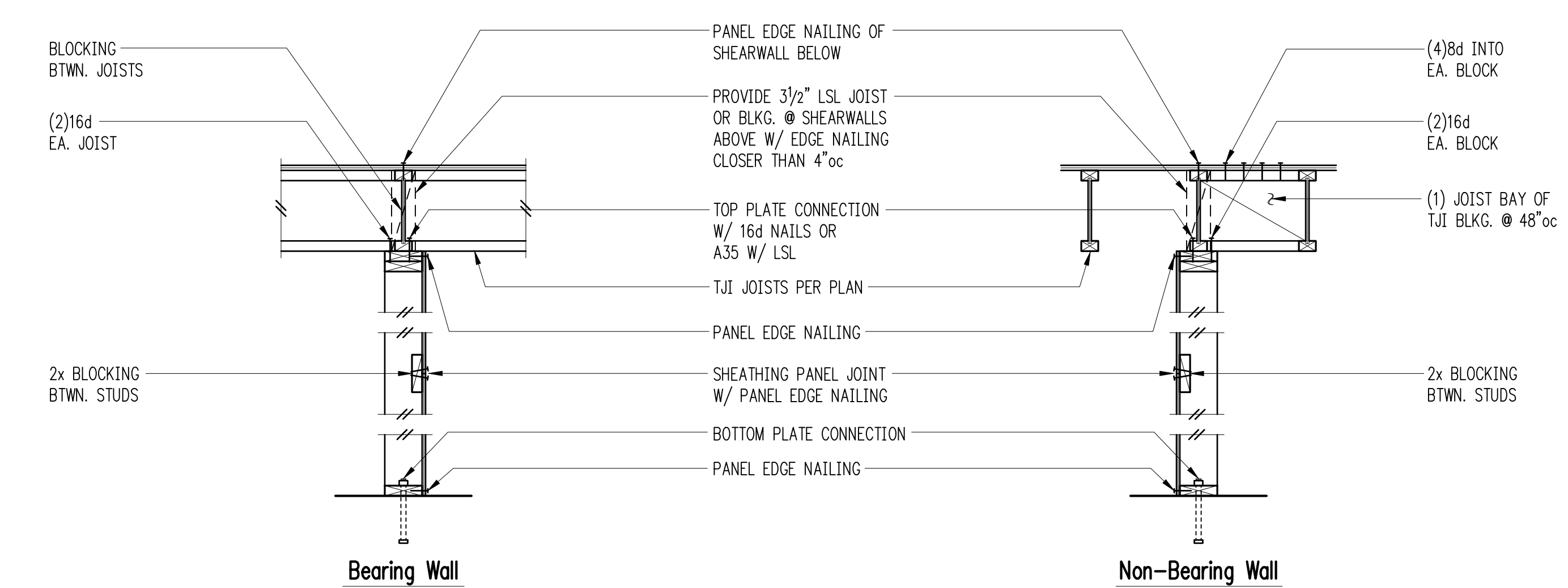
Holddown Strap Schedule

Plan Mark	End Length	#Nails Ea. End Length	Holddown Studs/Post if 2x4	if 2x6
CS16	1'-2"	(13) 8d	(1) 2x4	(1) 2x6
CMST14	2'-6"	(33) 10d	4x6	4x6
CMST12	3'-3"	(43) 10d	4x8	6x6

Typical Holddown Schedule 5



Typical Top Plate Splice 6



NOTE:
 SEE SHEARWALL SCHEDULE FOR ALL NAILING AND CONNECTIONS, NOT OTHERWISE NOTED

Typical Shearwall Construction 8

REVISIONS:

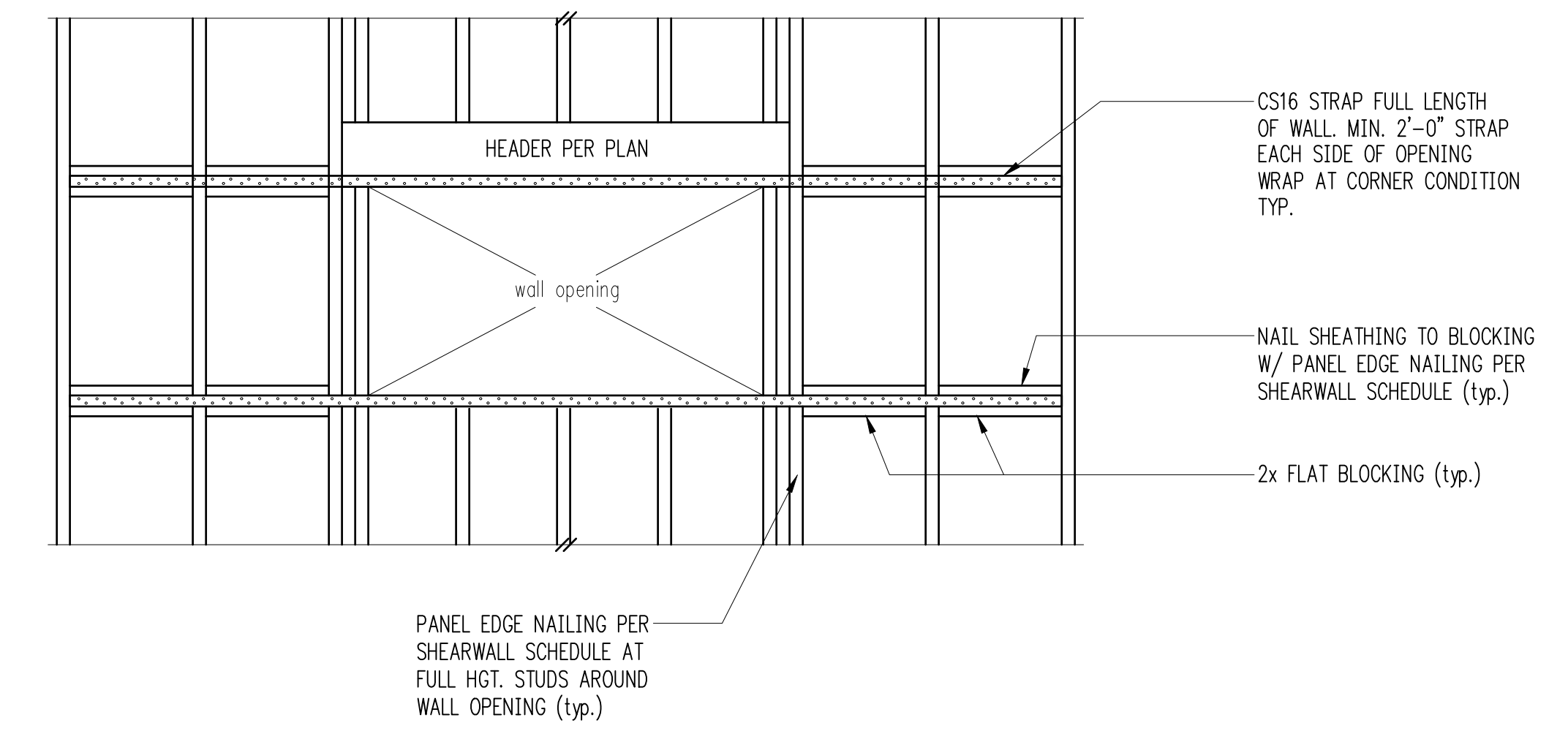
1	Corrections	May 4, 2021
2	Corrections 2	Aug. 13, 2021

DPD:

PROJECT TITLE:
Kahan Spec Home
 8163 West Mercer Way
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
PERMIT
 SHEET TITLE:
Typical Wood Framing Details
 SCALE: 3/4" = 1'-0" U.N.O.
 DATE: December 14, 2020
 PROJECT NO: 01519-2020-15
 SHEET NO:



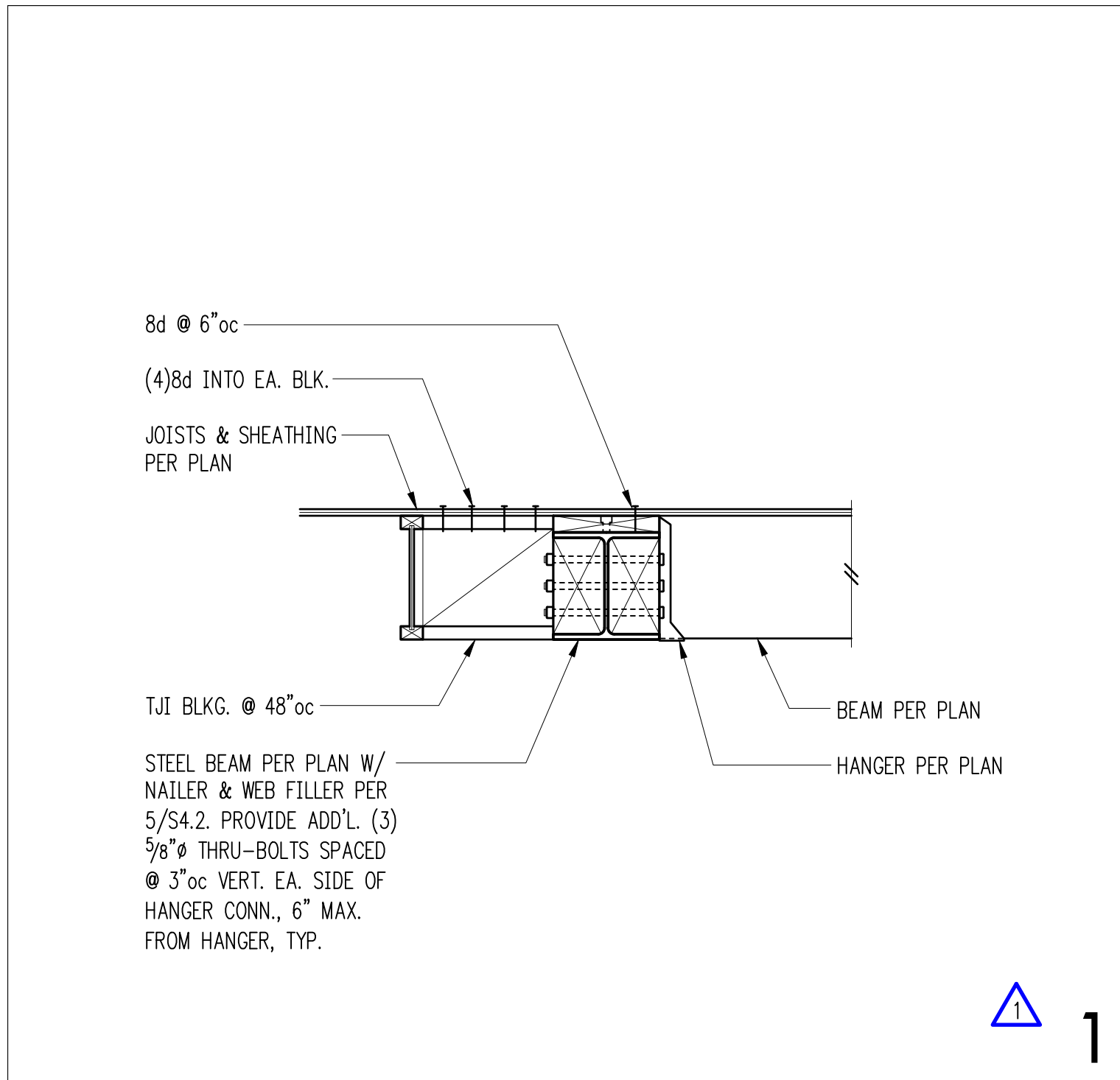
Continuous Straps at Wall Opening (above and below) 10

Shearwall Schedule ①②③④⑤⑥⑦⑧

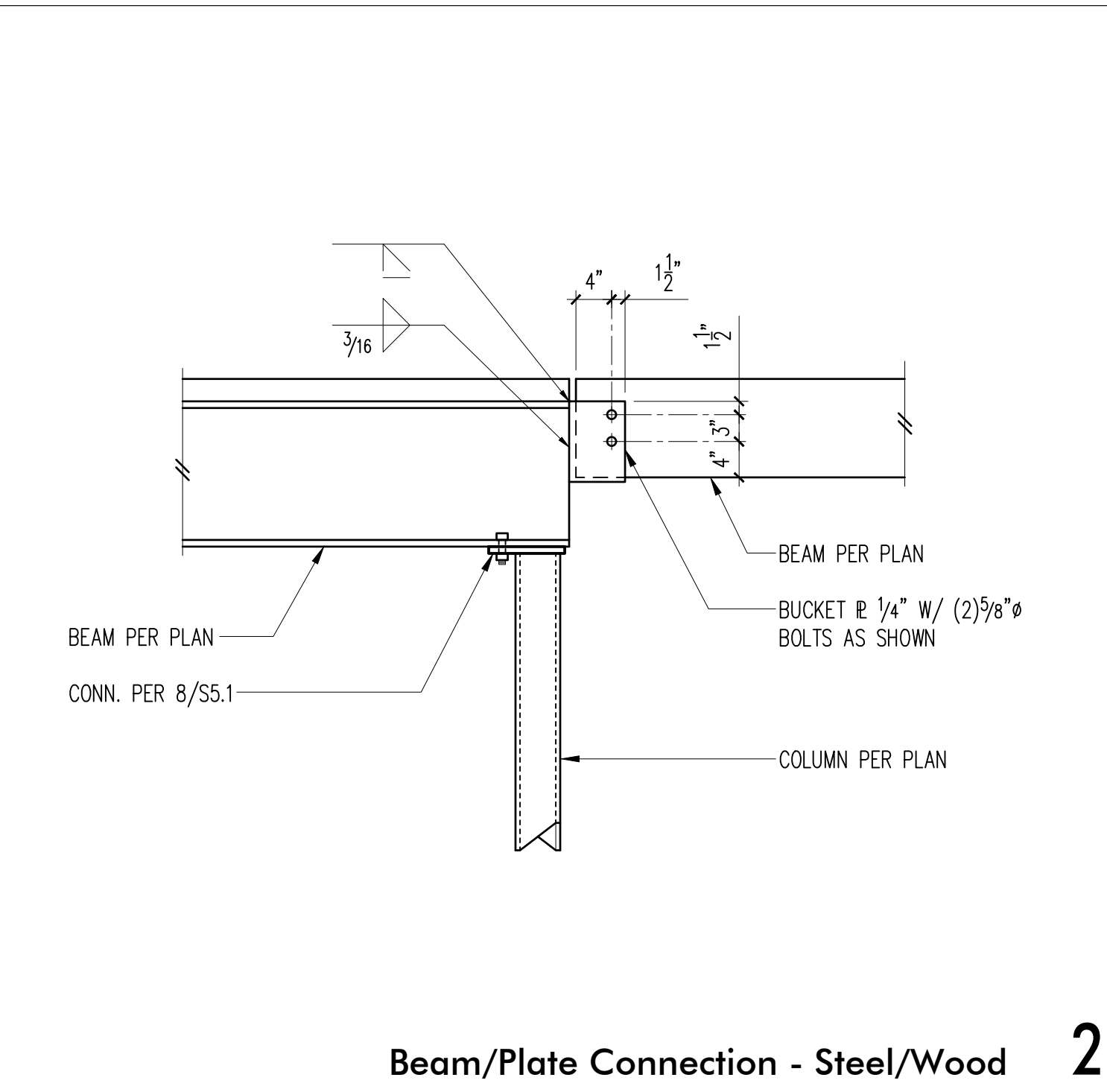
Mark	Sheathing	Panel Edge Nailing	Top Plate Connection		Base Plate Connection	
			if TJI	if Wood ⑤	at Wood ⑩⑪	at Concrete
W6	15/32" CDX PLYWOOD	8d @ 6"oc	16d @ 6"oc	A35 @ 24"oc ⑩	16d @ 6"oc	5/8" A.B. @ 48"oc
W4	15/32" CDX PLYWOOD	8d @ 4"oc	16d @ 4"oc	A35 @ 16"oc ⑩	(2)rows 16d @ 6"oc	5/8" A.B. @ 32"oc
W3 ④	15/32" CDX PLYWOOD	8d @ 3"oc	(2)rows 16d @ 4"oc	A35 @ 12"oc ⑩	(2)rows 16d @ 6"oc	5/8" A.B. @ 24"oc
W2 ④	15/32" CDX PLYWOOD	8d @ 2"oc	(2)rows 16d @ 4"oc	A35 @ 9"oc ⑩	(2)rows 16d @ 4"oc ⑬	5/8" A.B. @ 16"oc
2W3 ⑤	15/32" CDX PLYWD. EA. SIDE	8d @ 3"oc EA. SIDE	n/a	A35 @ 6"oc	(3)rows 16d @ 4"oc ⑬	5/8" A.B. @ 16"oc
2W2 ⑤	15/32" CDX PLYWD. EA. SIDE	8d @ 2"oc EA. SIDE	n/a	HGA10KT @ 8"oc	(3)rows 16d @ 4"oc ⑬	5/8" A.B. @ 12"oc
2W2-10 ⑤⑬	15/32" CDX PLYWD. EA. SIDE	10d @ 2"oc EA. SIDE	n/a	HGA10KT @ 6"oc	(4)rows 16d @ 4"oc ⑬	5/8" A.B. @ 12"oc

① BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"oc.
 ② 8d NAILS SHALL BE 0.131" x 2 1/2" (common) - 16d NAILS SHALL BE 0.135" x 3 1/2" (box) - 10d NAILS SHALL BE 0.148" x 3" (common).
 ③ EMBED ANCHOR BOLTS AT LEAST 7". EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING. SEE DETAIL C.
 ④ 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.
 ⑤ 3x FOUNDATION SILL PLATES ARE REQUIRED FOR 2W3 AND 2W2. 3x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES AND PANEL JOINTS SHALL BE OFFSET EACH SIDE OF WALL. STAGGER NAILS AT ADJOINING PANEL EDGES. 3x STUD, MIN., REQUIRED AT END OF SHEARWALL.
 ⑥ TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SINGLE-SIDED SHEARWALLS. ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING. SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
 ⑦ ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.
 ⑧ 7/16" O.S.B. MAY BE SUBSTITUTED FOR 15/32" CDX, EXCEPT AT 10d PANEL EDGE NAILING.
 ⑨ LTP4's (HORIZONTAL ORIENTATION) W/ 8d COMMON MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
 ⑩ A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
 ⑪ AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.
 ⑫ LVL RIMS PERMITTED AT SINGLE SIDED SHEAR WALLS ONLY.
 ⑬ PROVIDE (3) ROWS 16d @ 6"oc AT LVL RIMS.
 ⑭ MINIMUM RIM OR JOIST 3/2" WIDE BELOW SHEARWALL.
 ⑮ STUDS AND PLATES SHALL BE DOUGLAS FIR-LARCH NO. 2 AT 2W2-10 SHEARWALL.

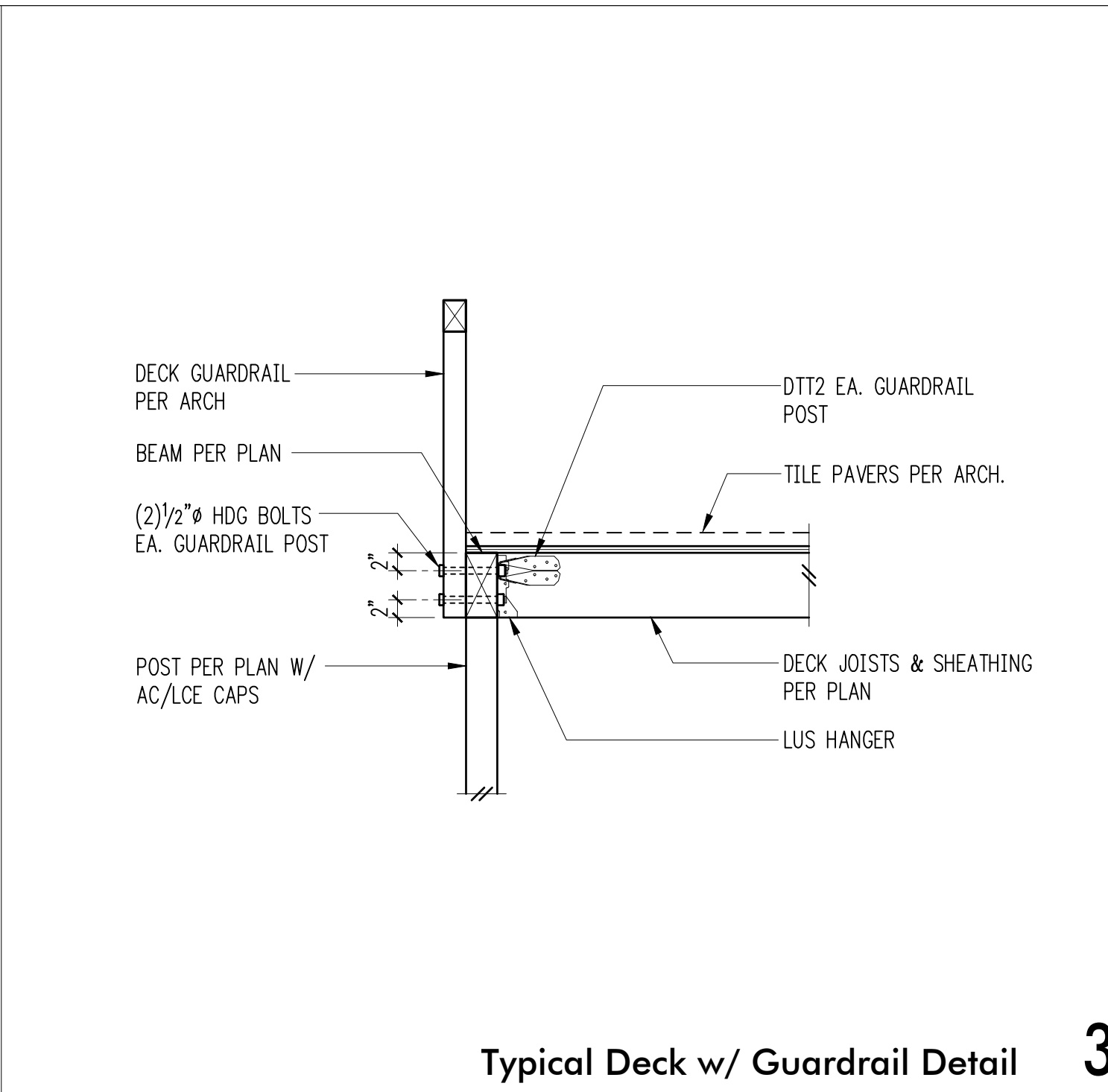
Shearwall Schedule 12



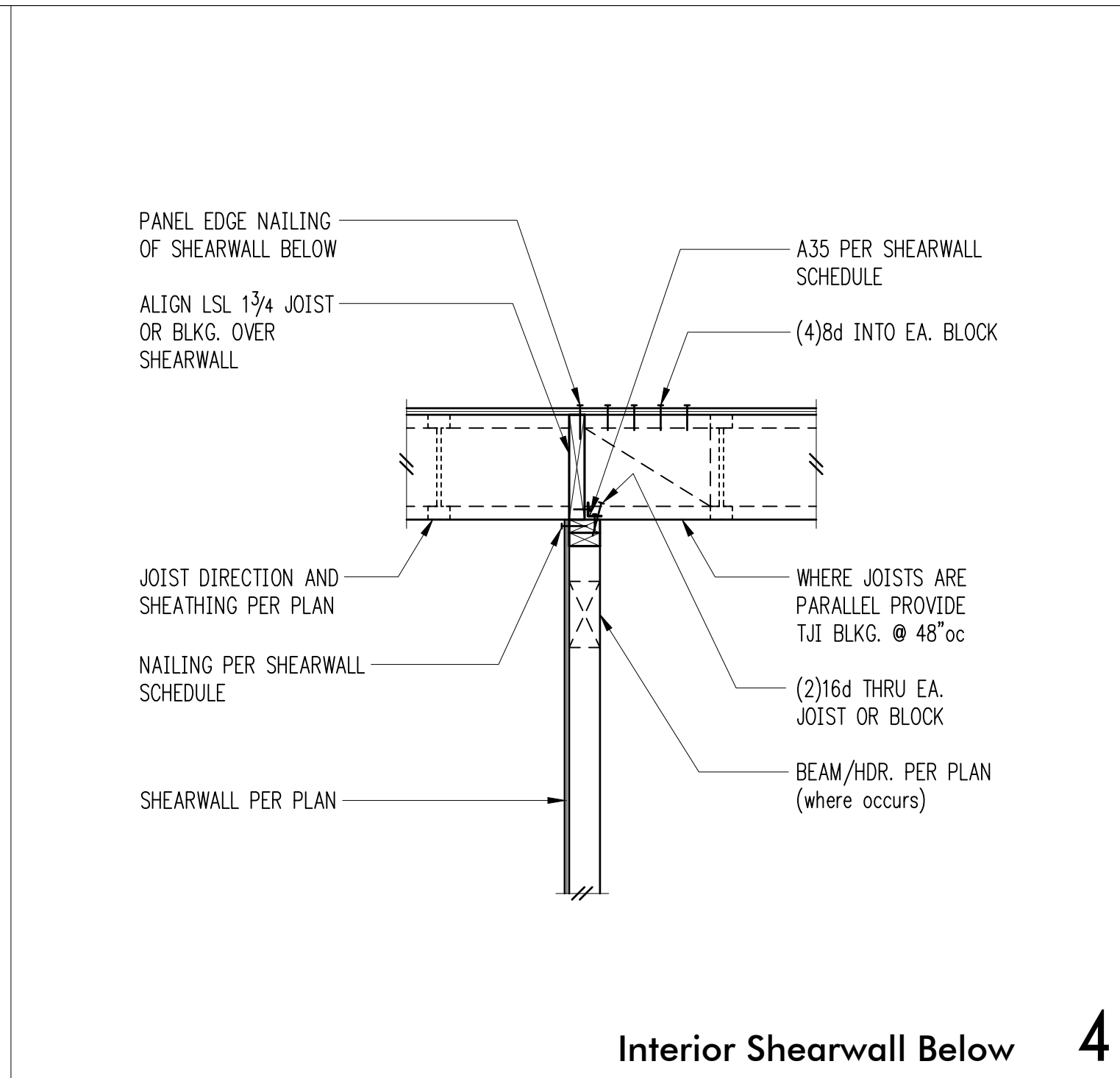
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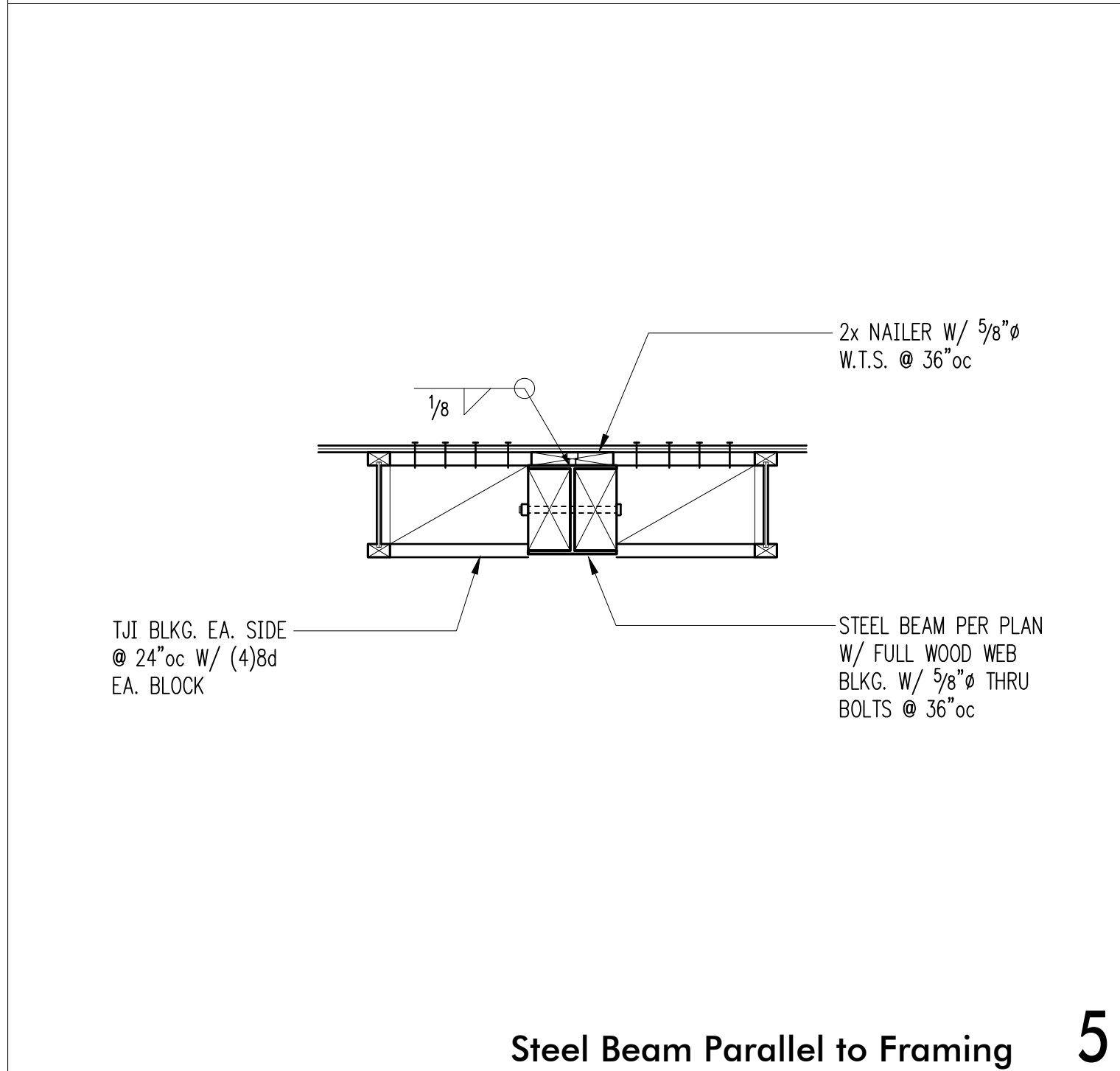
Beam/Plate Connection - Steel/Wood 2



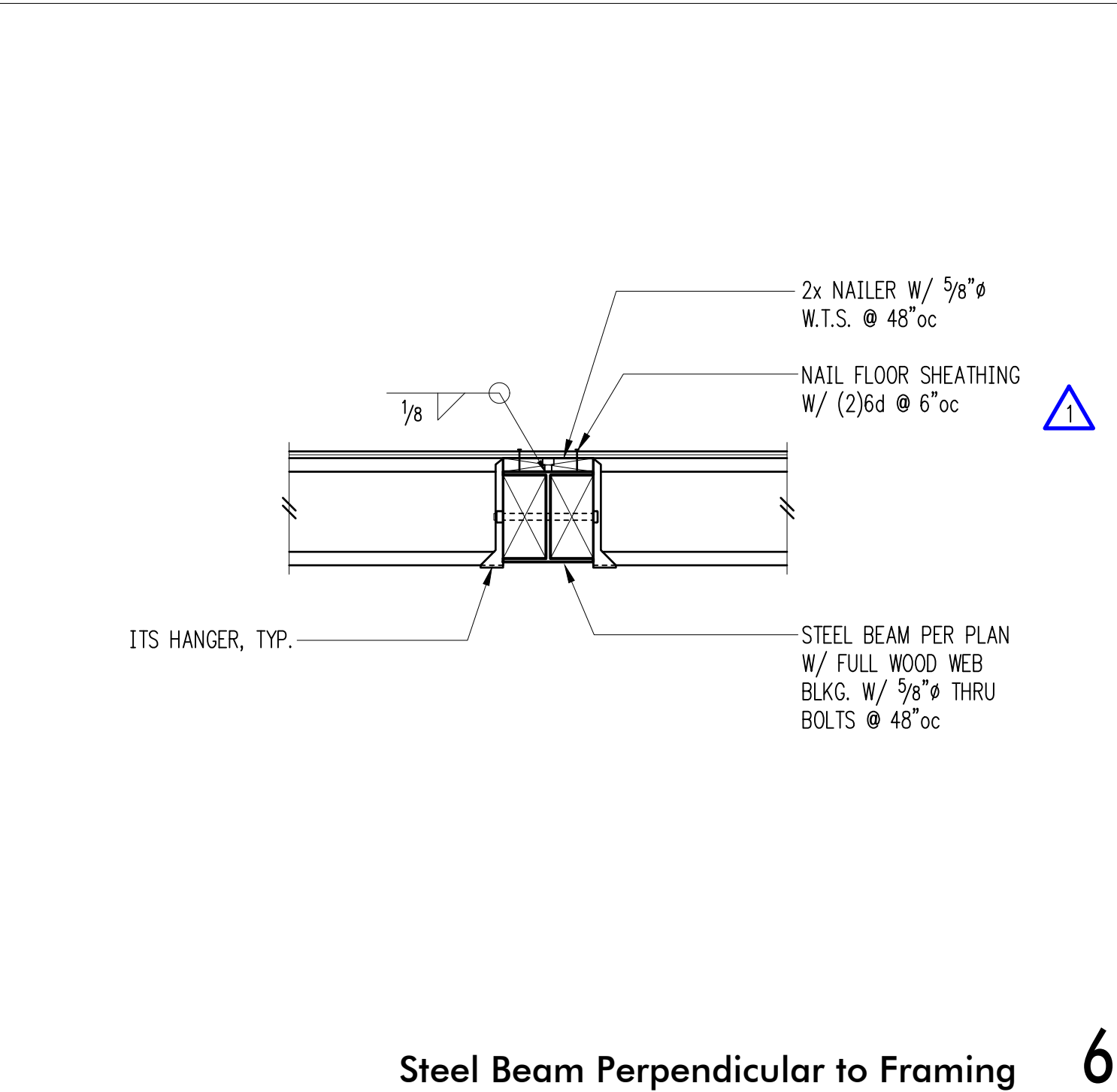
Typical Deck w/ Guardrail Detail 3



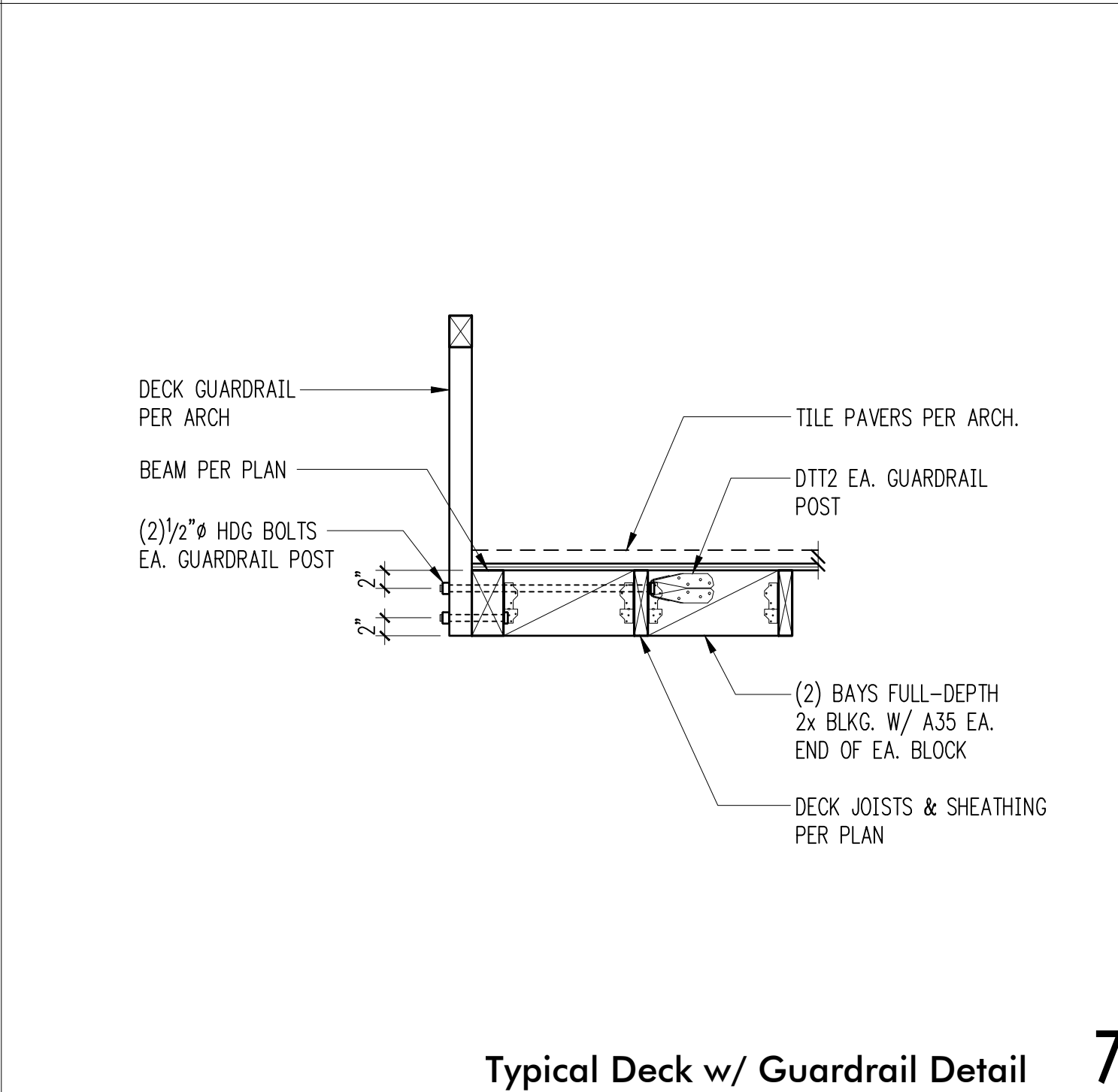
Interior Shearwall Below 4



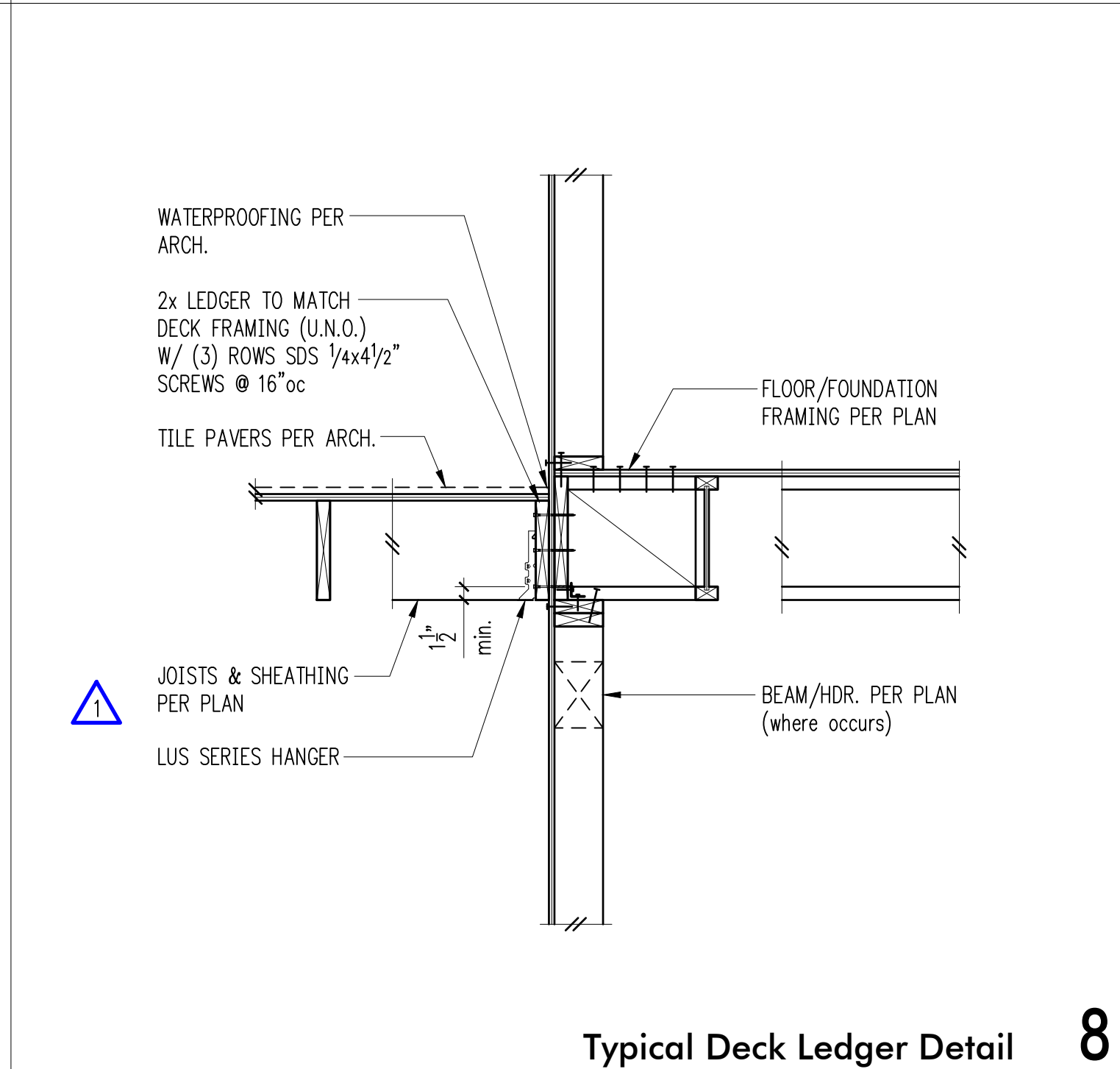
Steel Beam Parallel to Framing 5



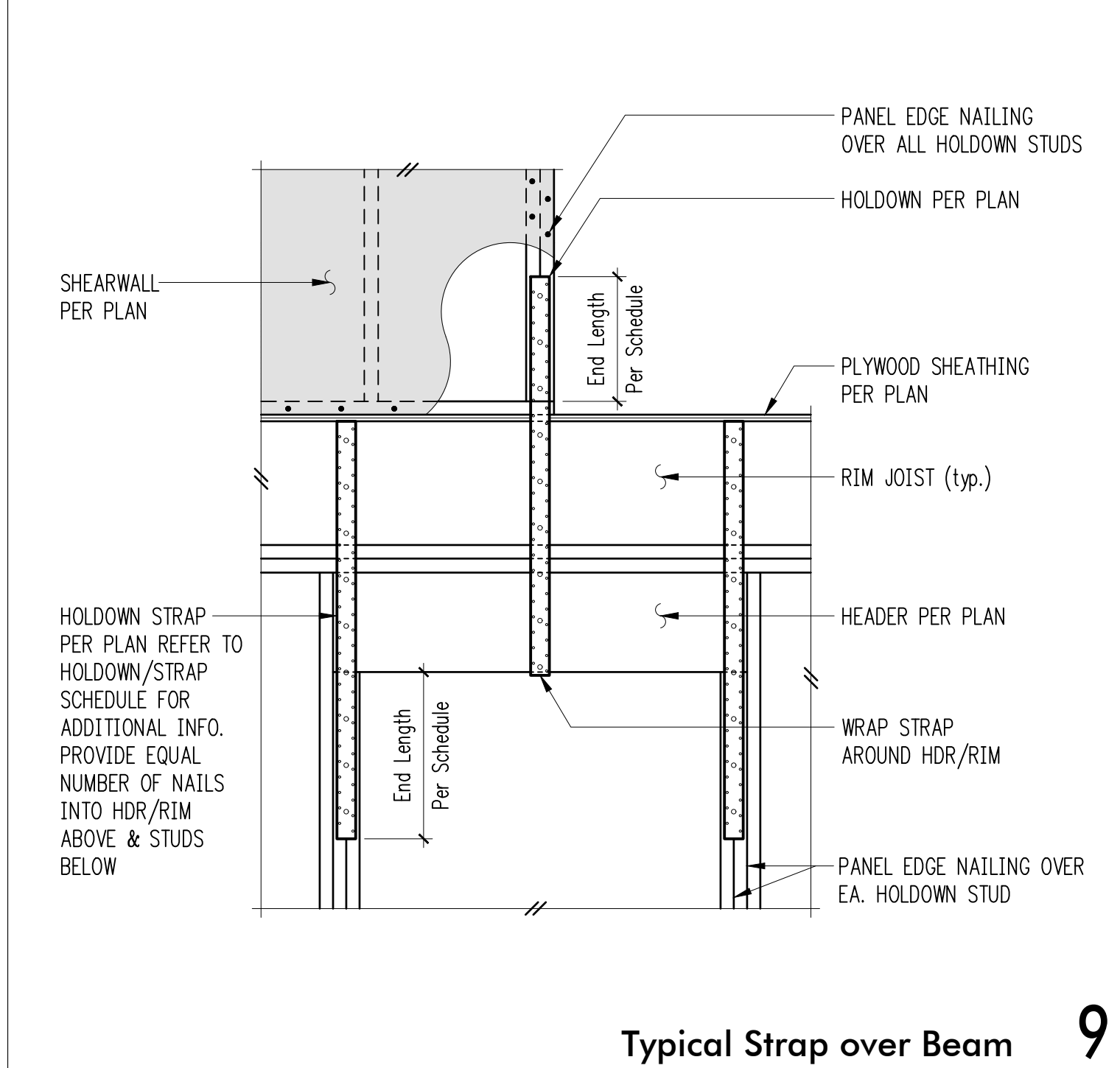
Steel Beam Perpendicular to Framing 6



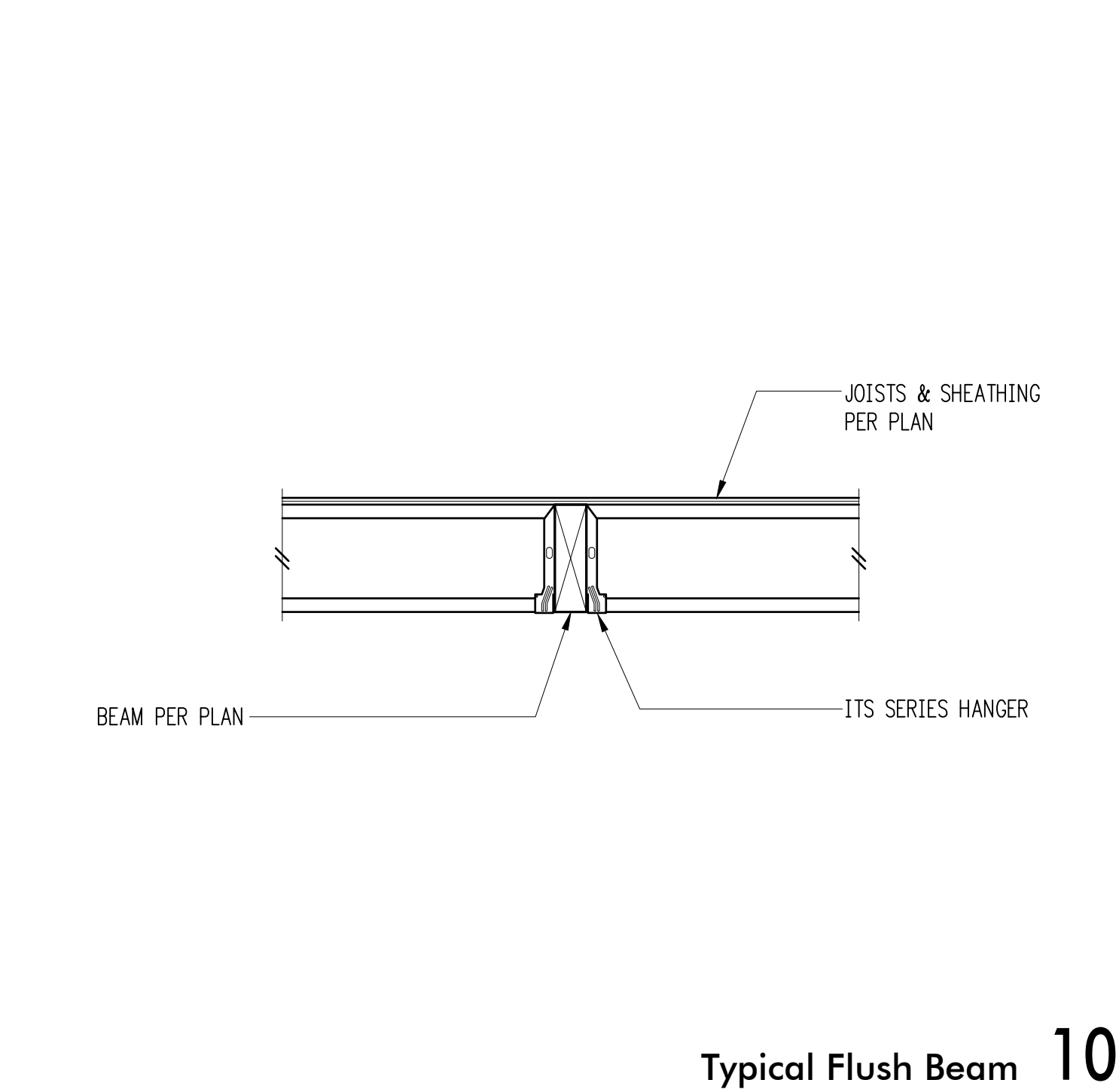
Typical Deck w/ Guardrail Detail 7



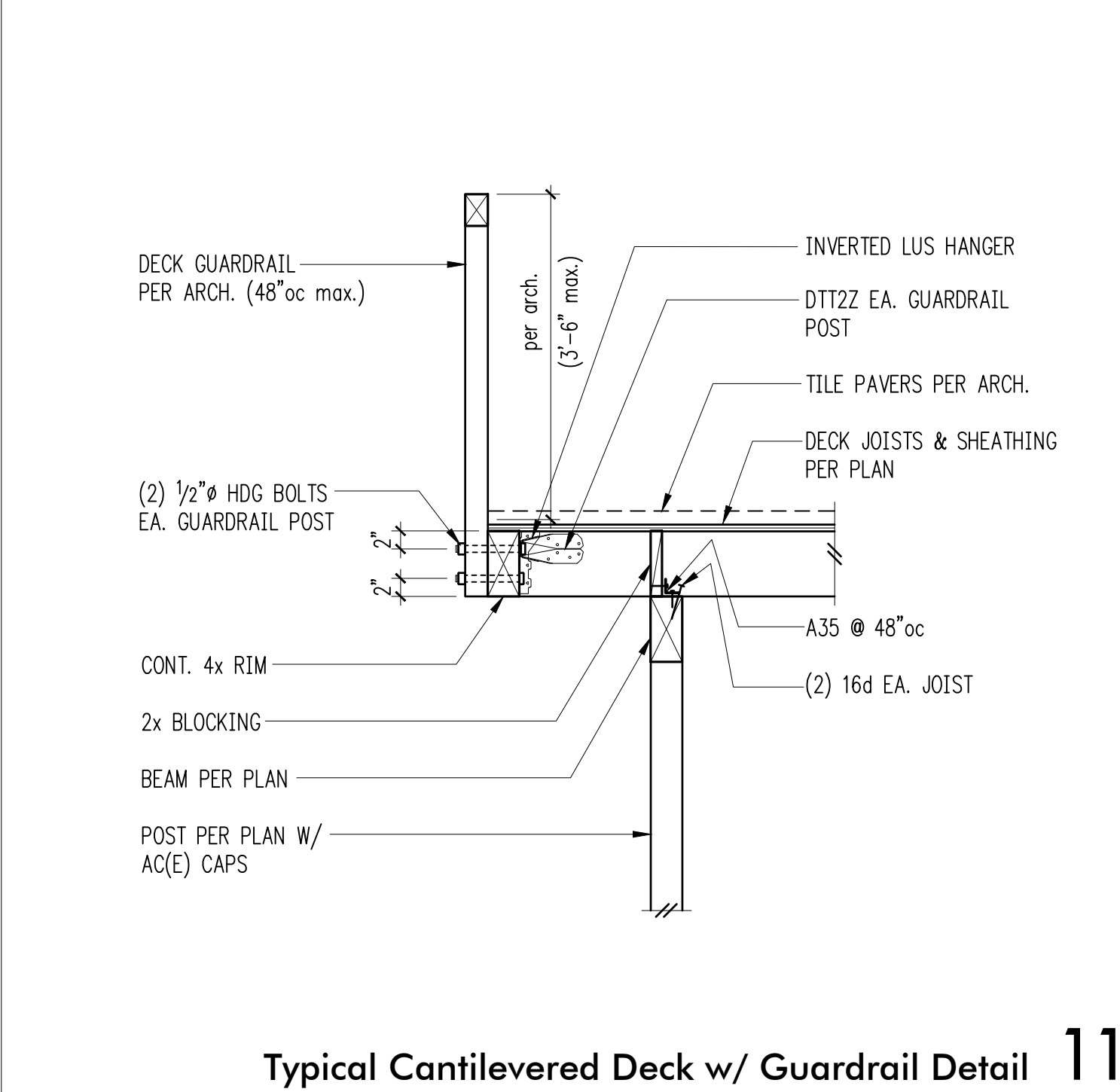
Typical Deck Ledger Detail 8



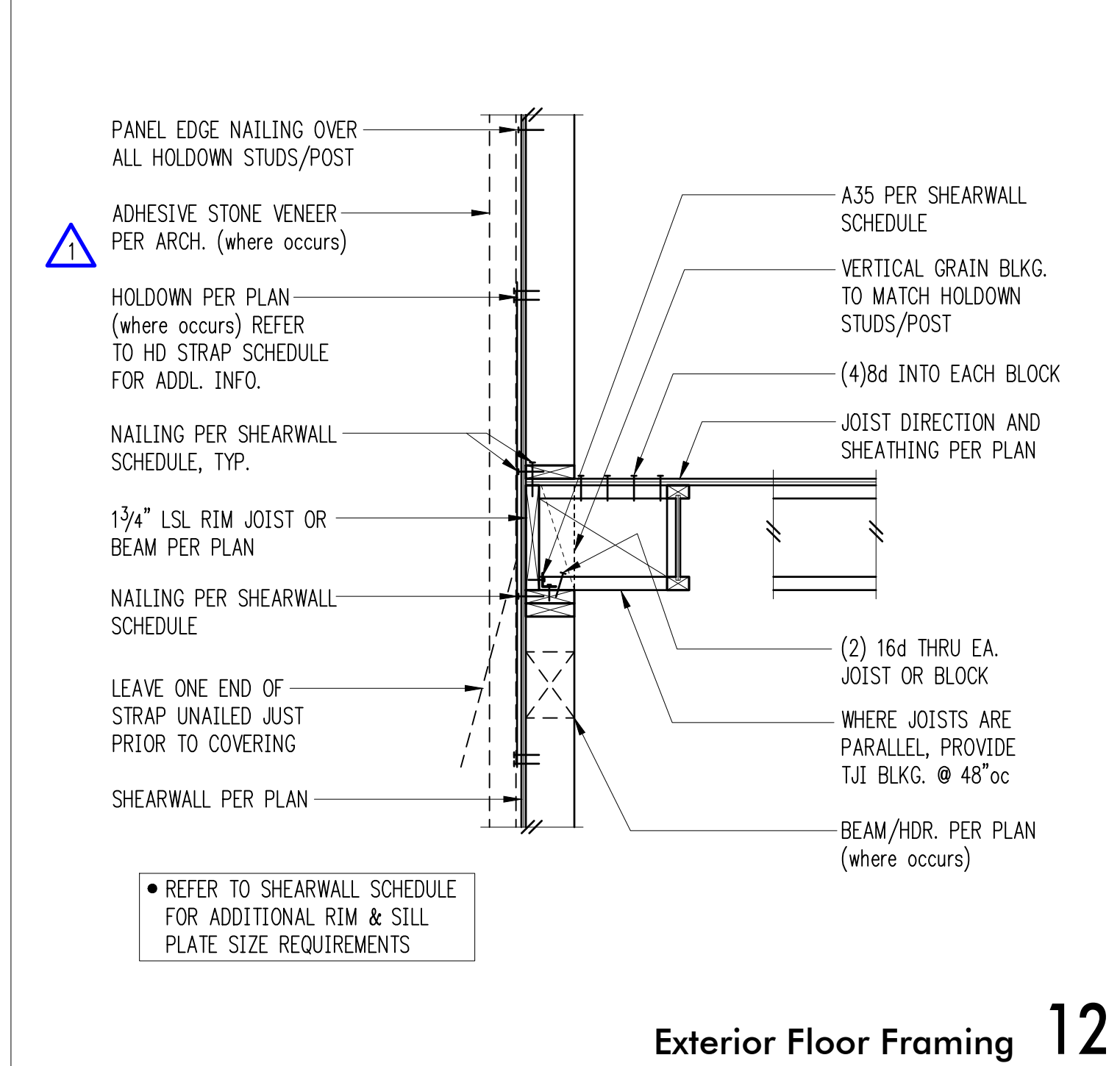
Typical Strap over Beam 9



Typical Flush Beam 10

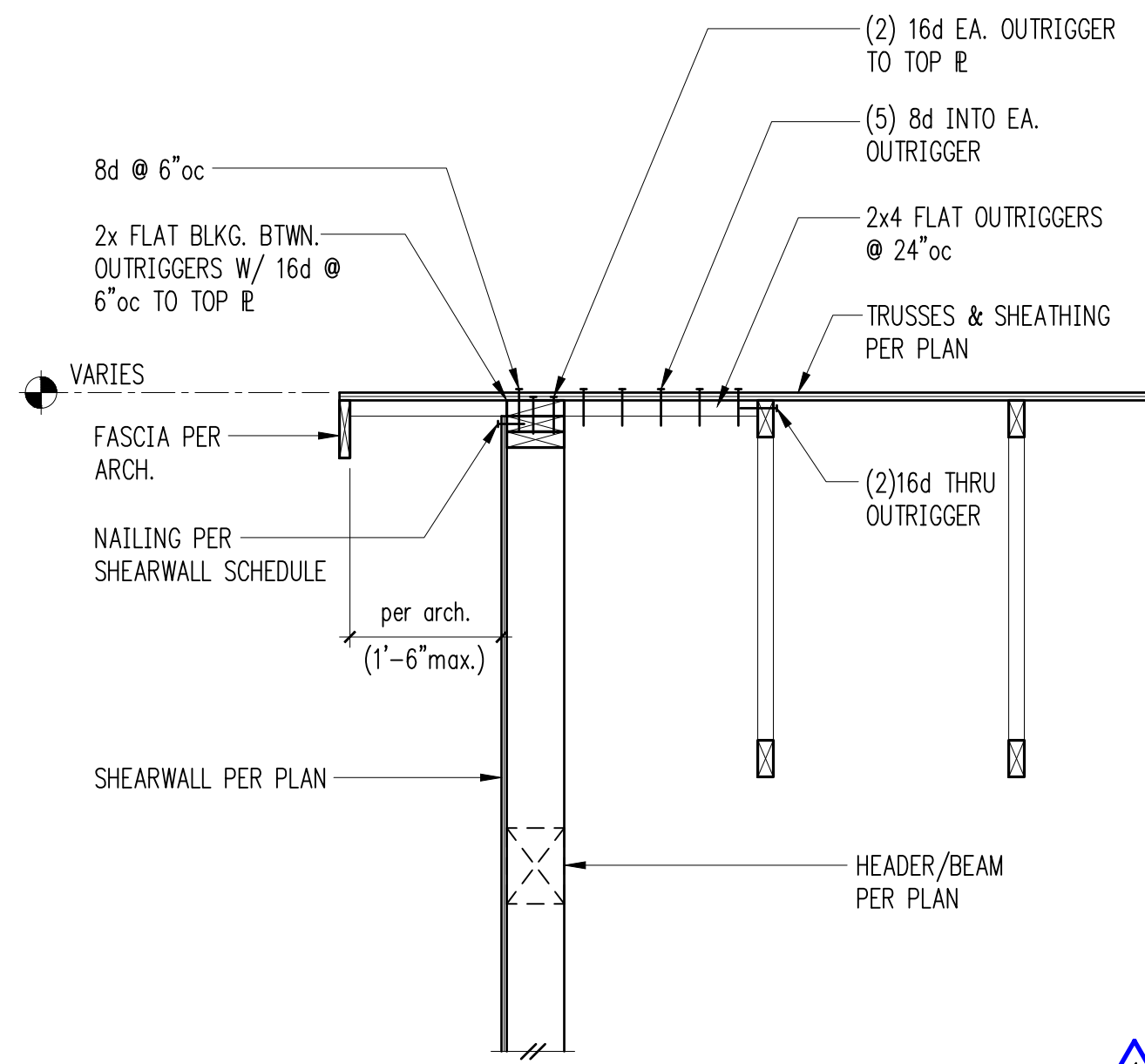


Typical Cantilevered Deck w/ Guardrail Detail 11

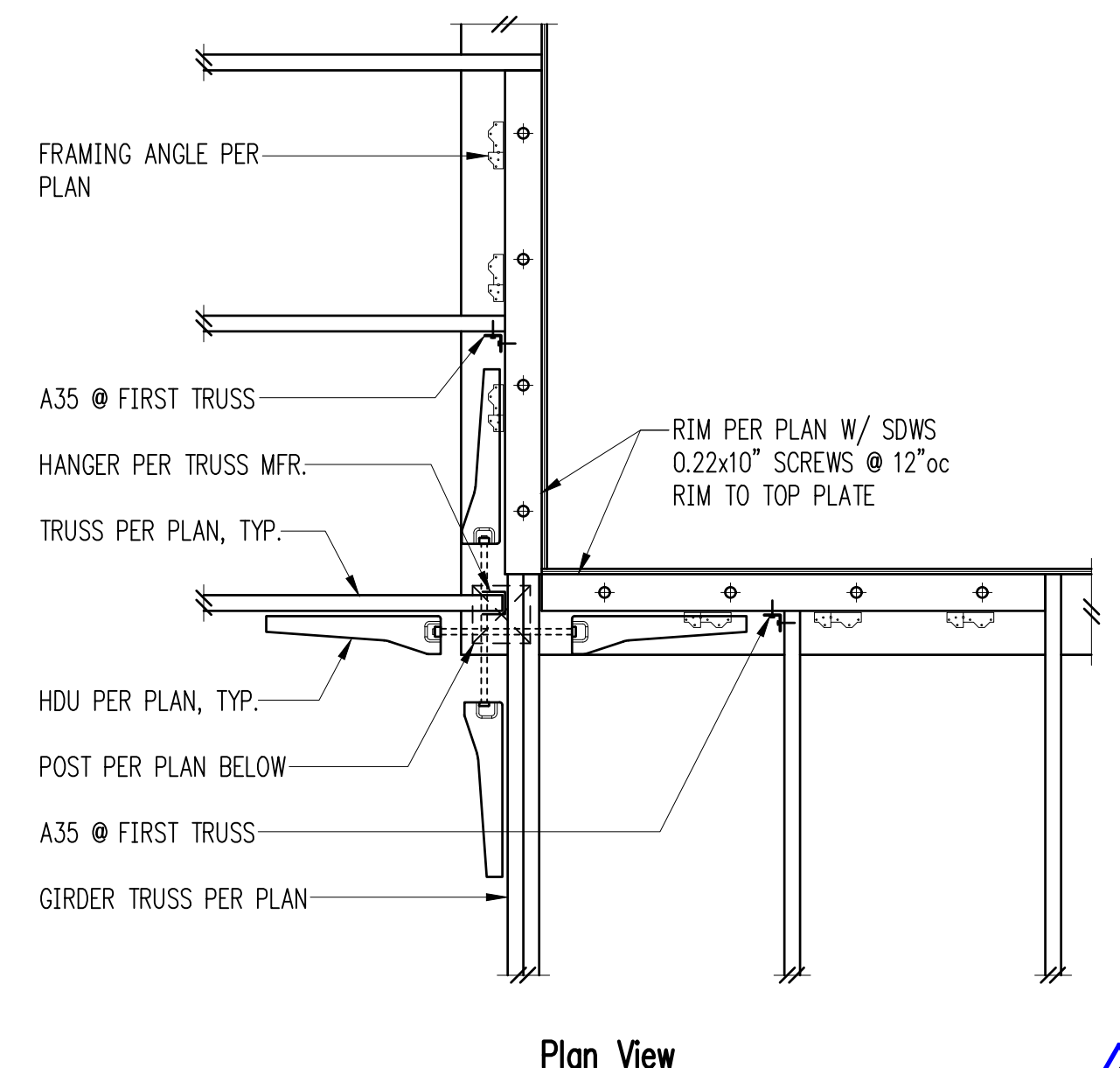


Exterior Floor Framing 12

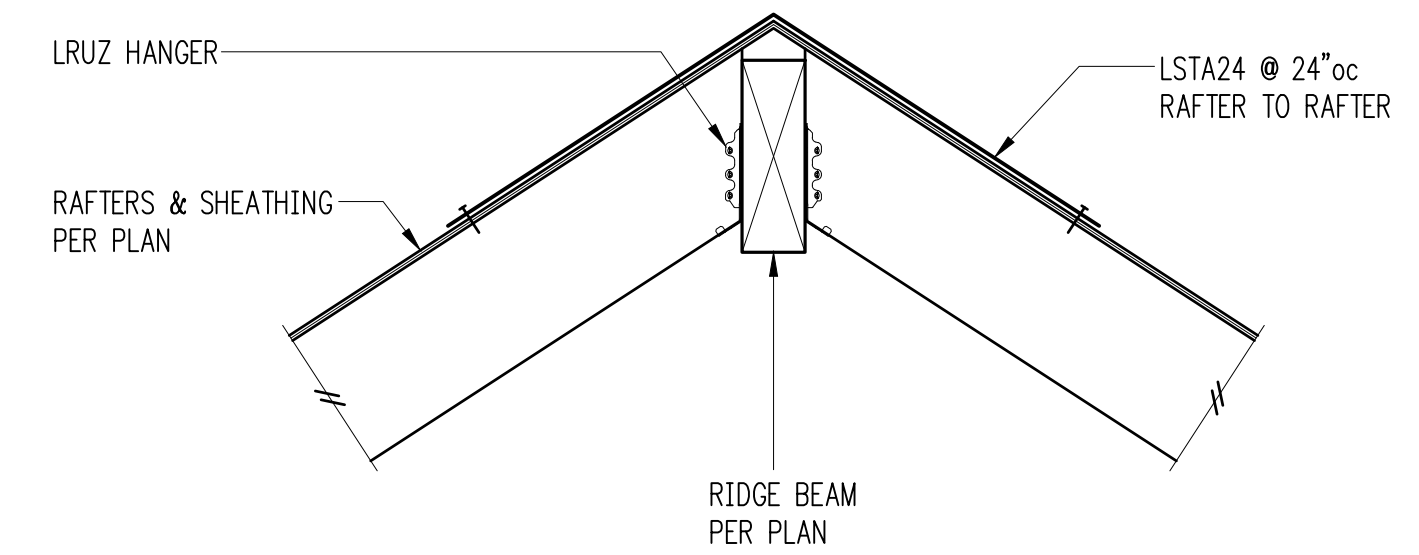
REFER TO SHEARWALL SCHEDULE FOR ADDITIONAL RIM & SILL PLATE SIZE REQUIREMENTS



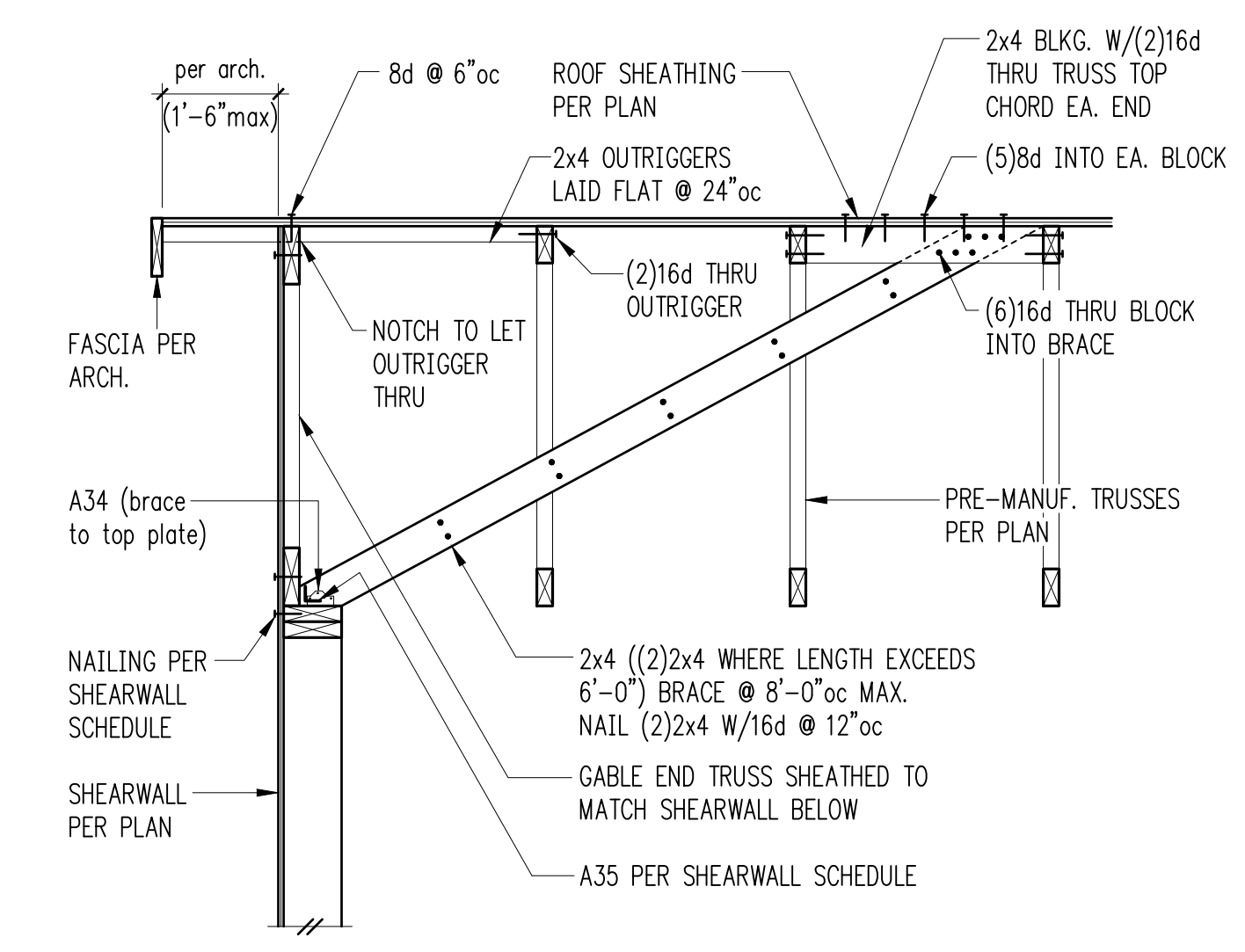
Trusses Parallel to Exterior Wall w/ Flat Outrigger 1



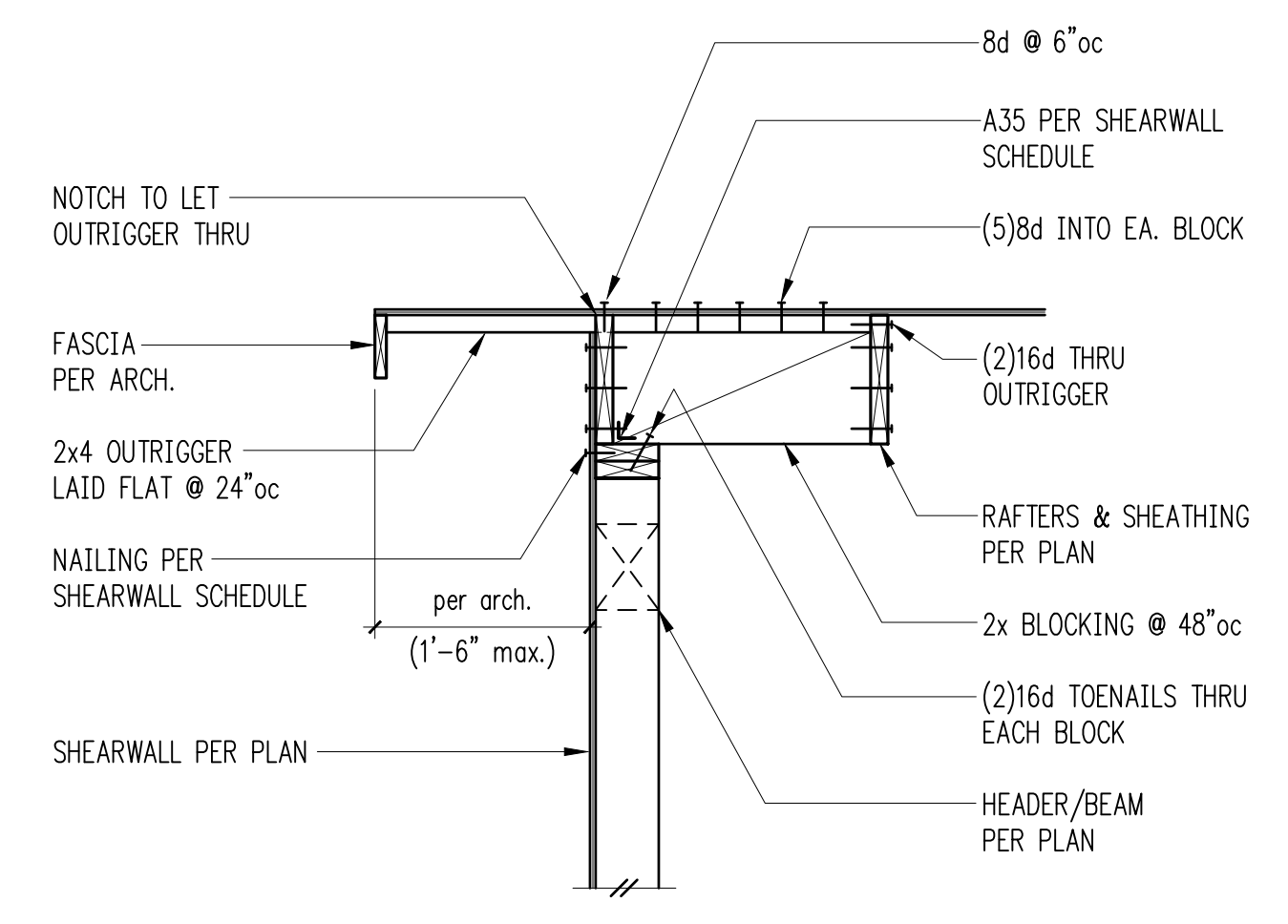
Plan View 2



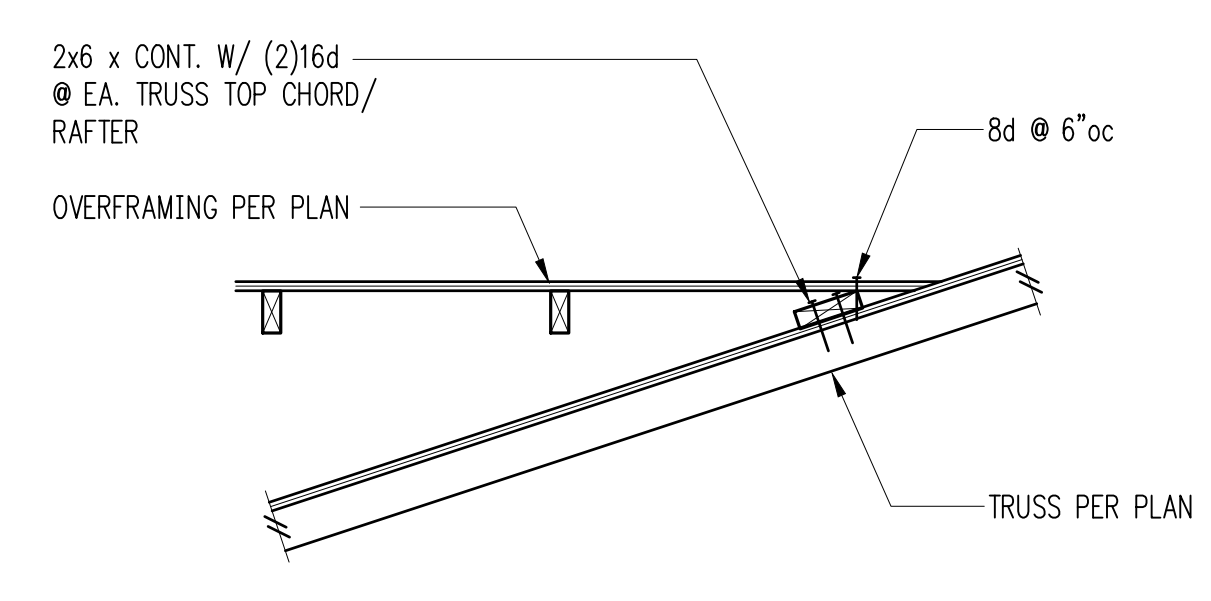
Ridge Beam w/ LRU Hangers 3



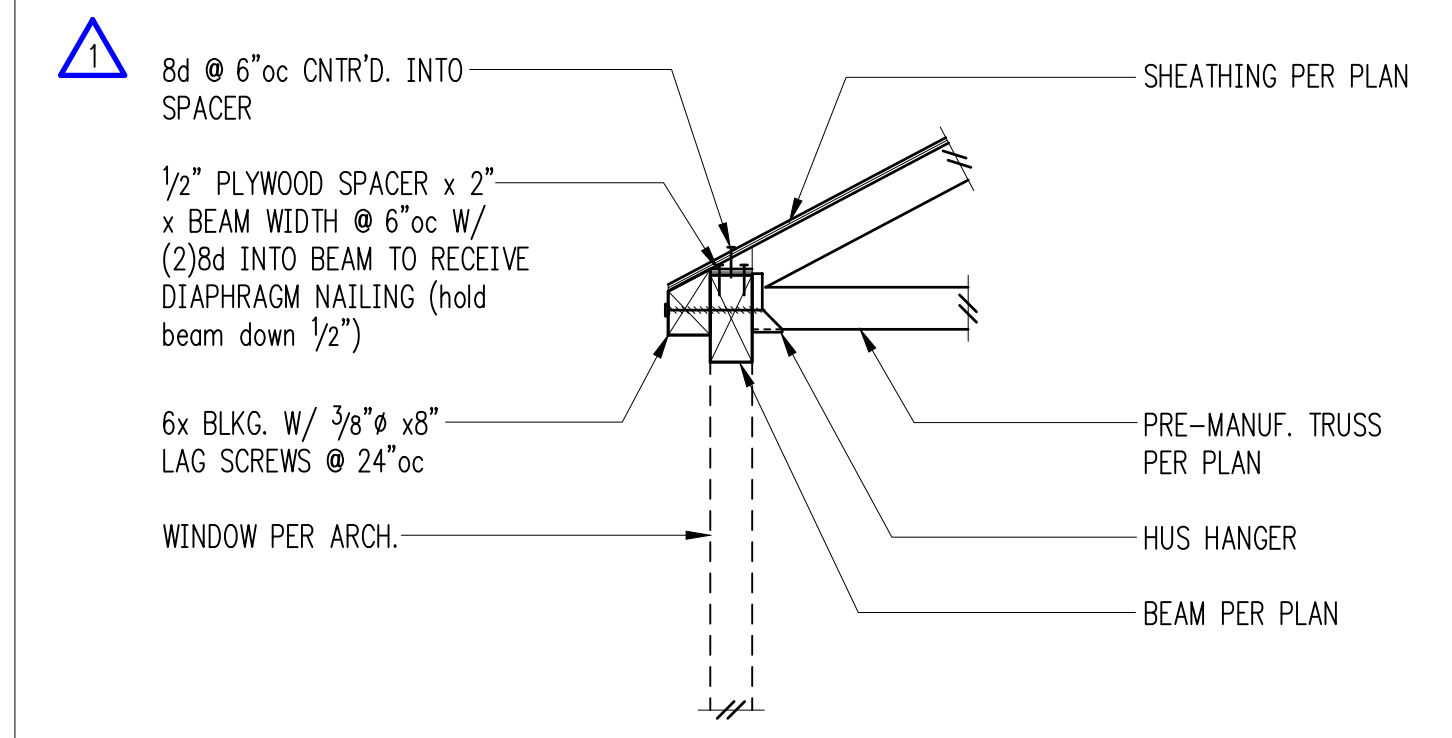
Exterior Non-Bearing Wall 4



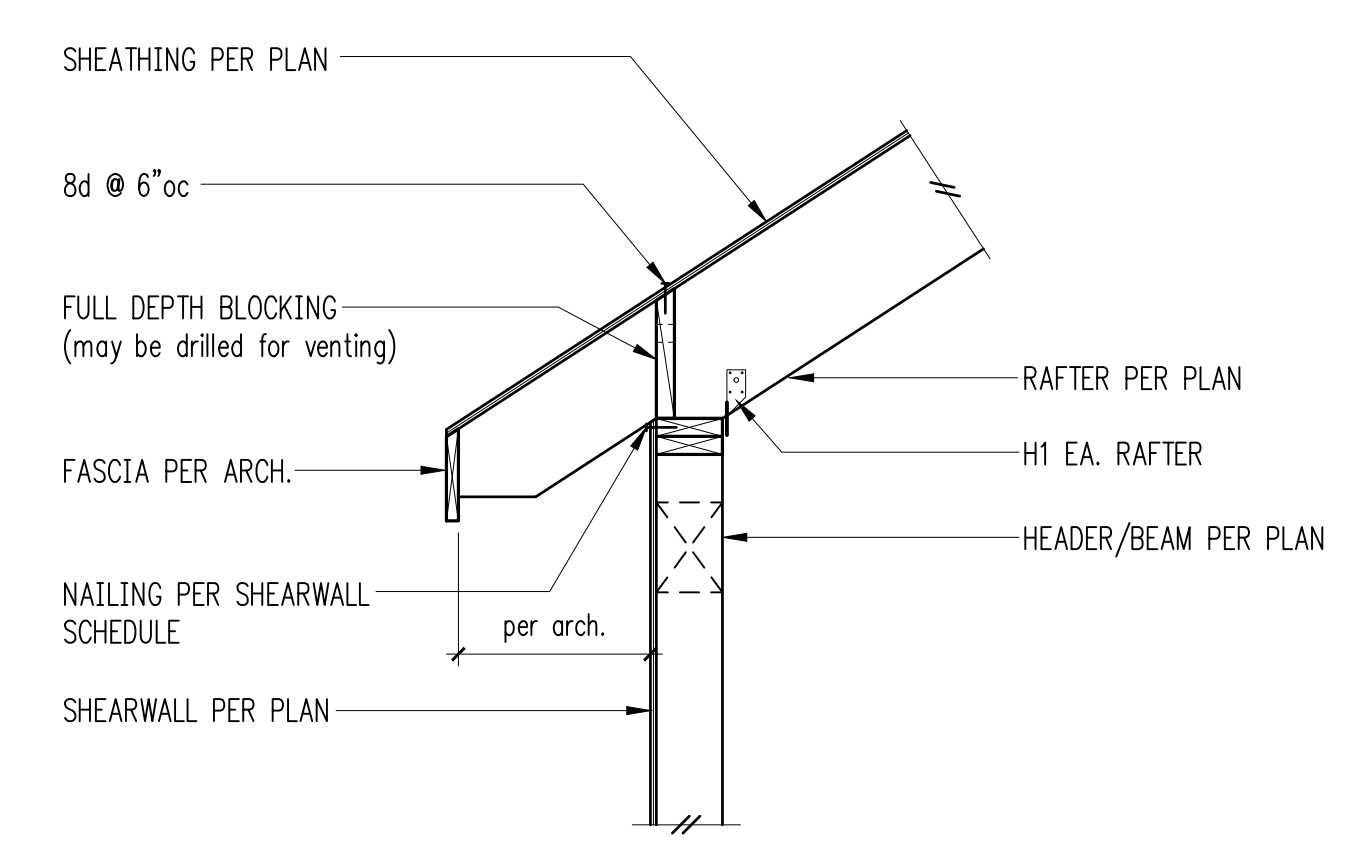
Exterior Non-Bearing Wall 5



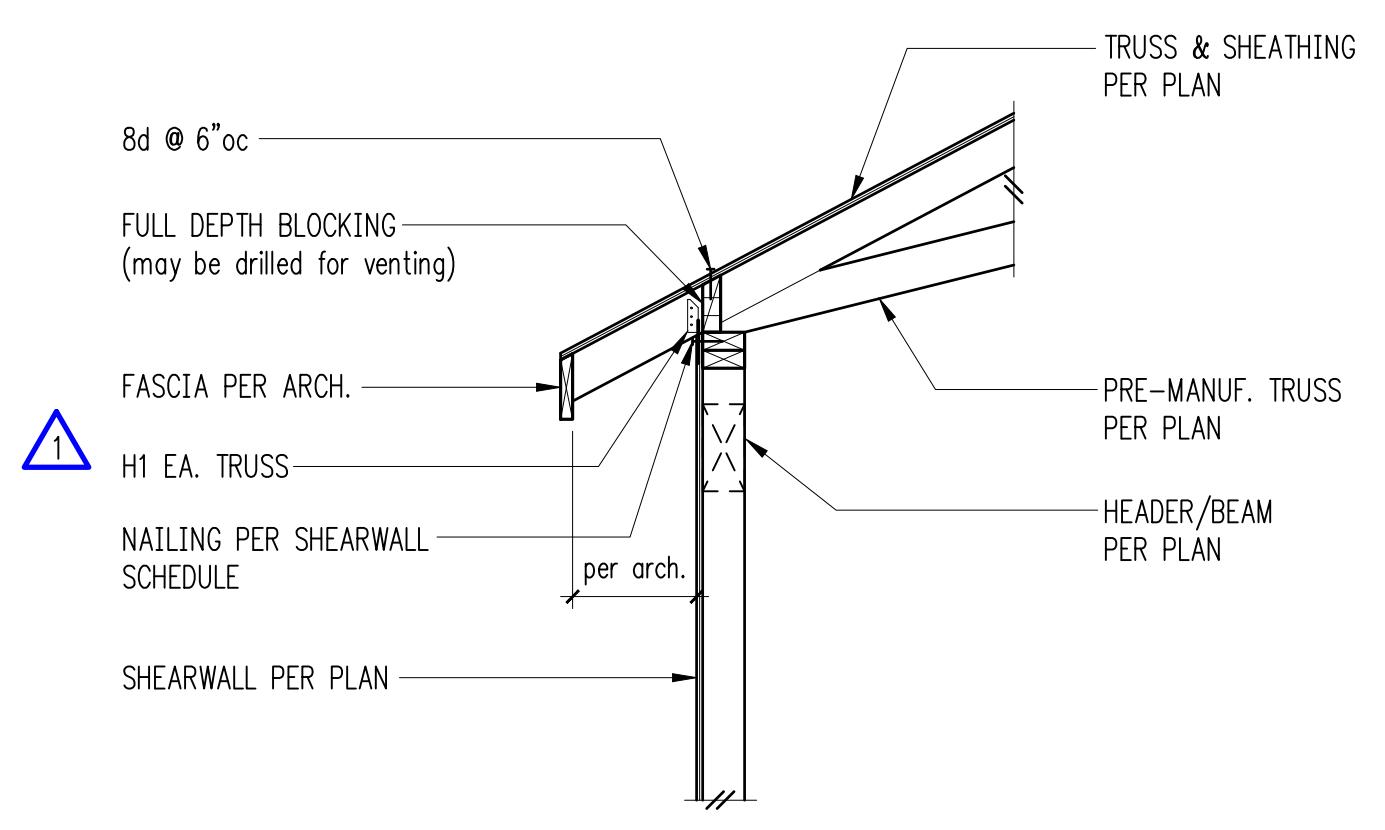
Overframing Connection 6



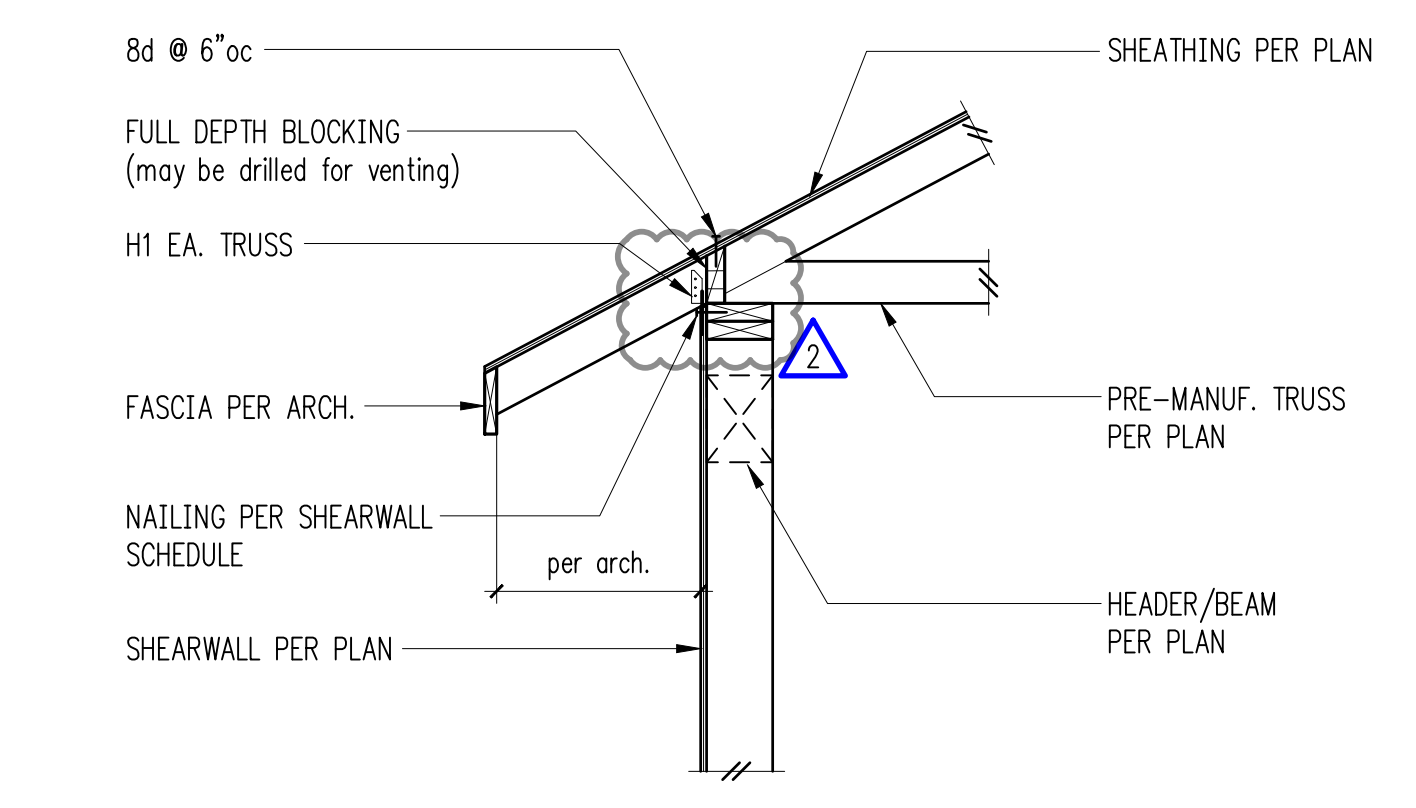
Window Per Arch. 7



Exterior Bearing Wall 8



Scissors Trusses Exterior Bearing Wall 9



Exterior Bearing Wall 10



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

1	Corrections	May 4, 2021
2	Corrections 2	Aug. 13, 2021

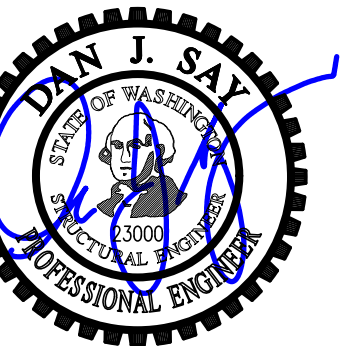
PROJECT TITLE:
Kahan Spec Home
 8163 West Mercer Way
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH 206.239.0850

ISSUE:
PERMIT

SHEET TITLE:
Wood Framing Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: December 14, 2020
 PROJECT NO: 01519-2020-15
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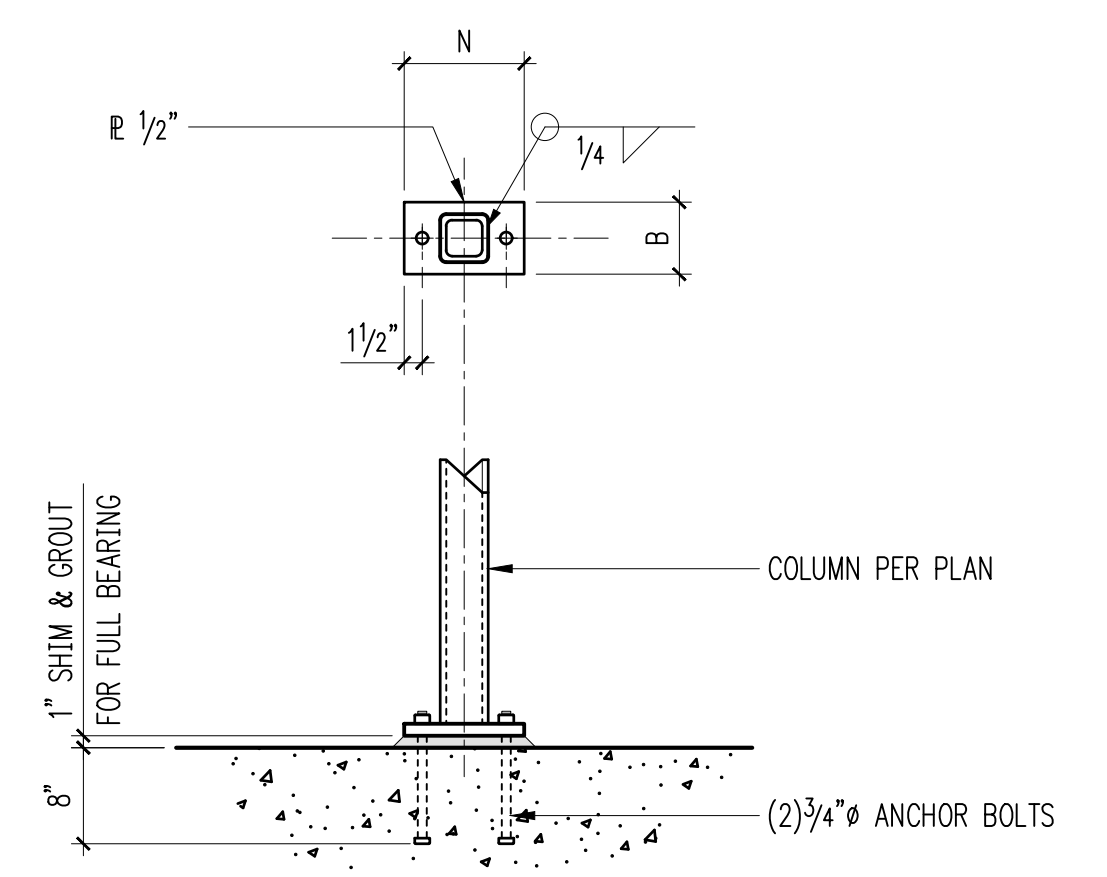


DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

1

2

3



Baseplate - HSS Column 4

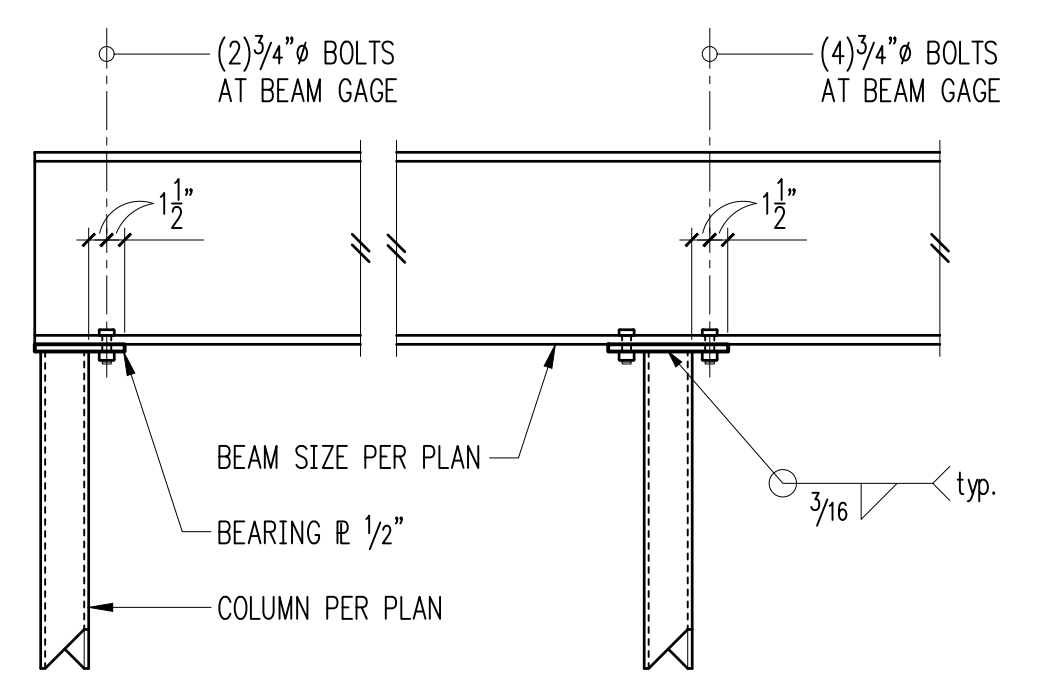
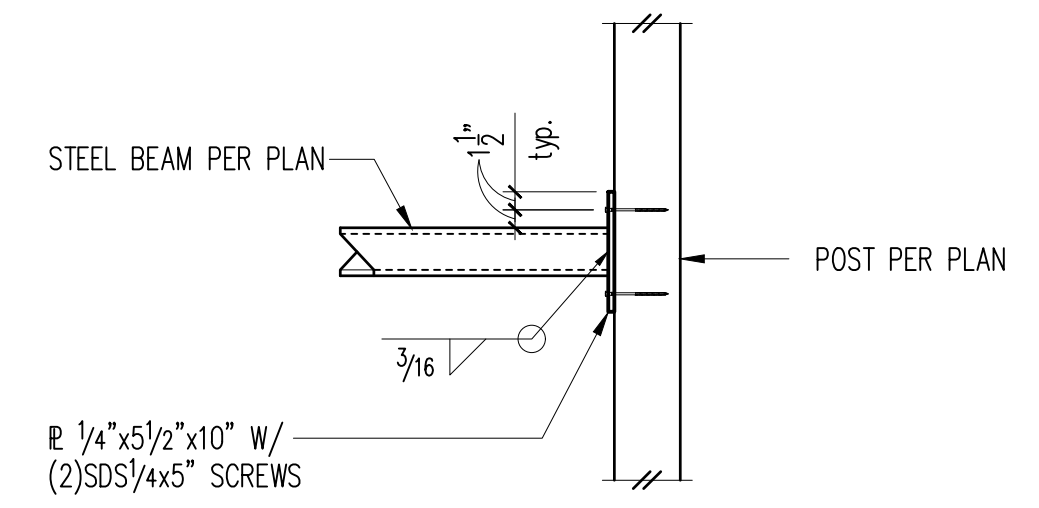
REVISIONS:
 1 Corrections May 4, 2021
 2 Corrections 2 Aug. 13, 2021

DPD:

5

6

7



Where Beam Stops Where Beam Continues

NOTE:
 BEARING PLATE THICKNESS SHALL BE
 3/4" WHERE DEPTH OF SUPPORTED
 MEMBER EXCEEDS 24"

Typical Beam Bearing on HSS or Pipe Column 8

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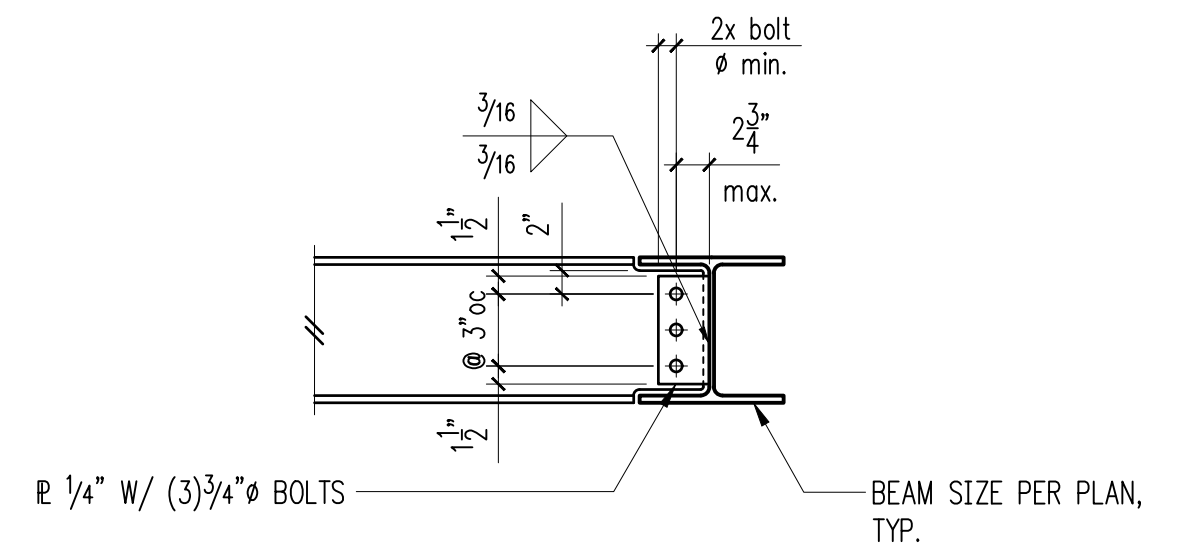
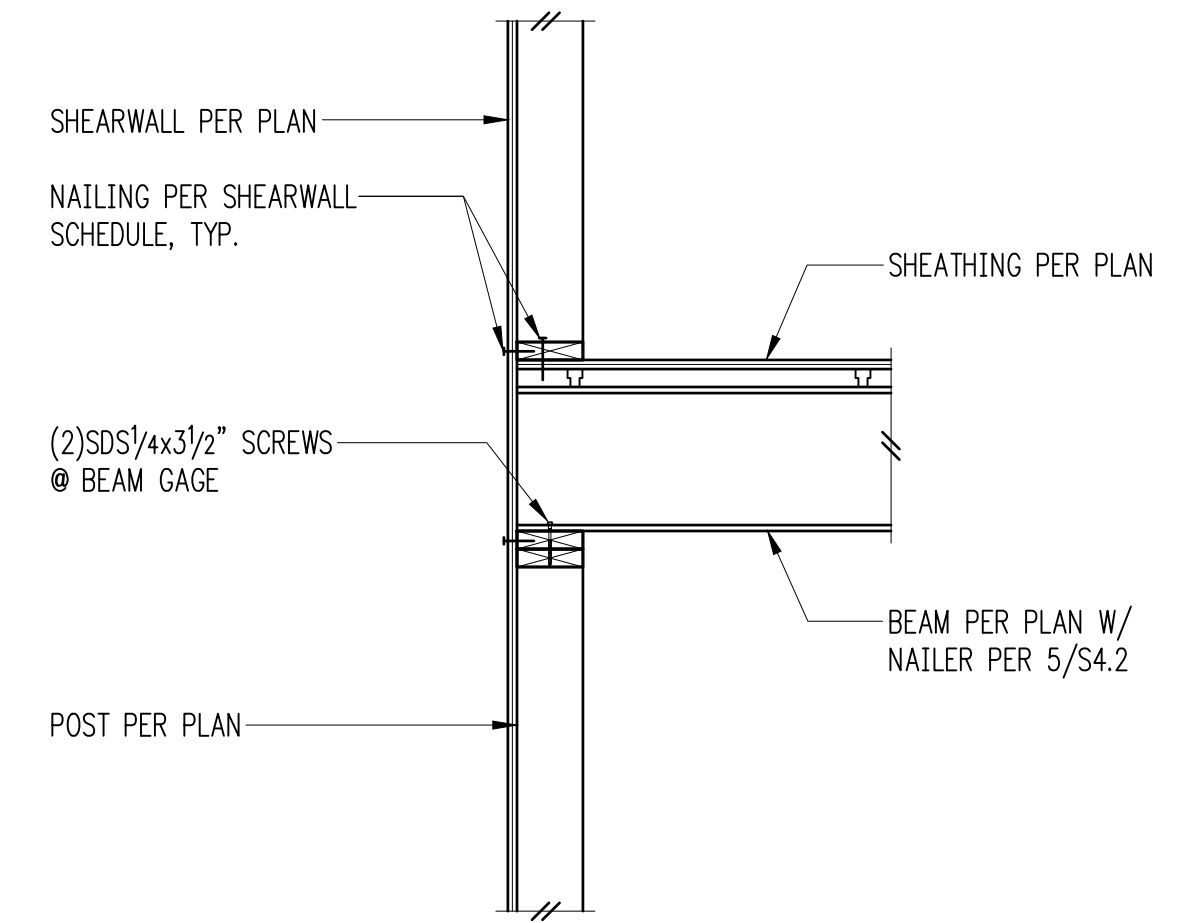
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Steel Details

SCALE:
 3/4" = 1'-0" U.N.O.
 DATE:
 December 14, 2020
 PROJECT NO:
 01519-2020-15
 SHEET NO:

9

10

11



NOTES:
 1. STANDARD OR SLOTTED HOLES MAY BE USED.
 2. BOLT TYPE A325N.
 3. MATERIAL - A36

12

S5.1

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CODE REQUIREMENTS

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2015 EDITION

REFERENCE DOCUMENTS

- GEOTECH REPORT PER S1.1

GENERAL REQUIREMENTS

- ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER AND ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.

- SHOULD ANY DISCREPANCIES BE FOUND IN THE PROJECT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO SUBMISSION OF THE PRICE THE CONTRACTOR ASKS FOR A DECISION FROM THE ENGINEER AND ARCHITECT AS TO WHICH SHALL GOVERN.

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTOR'S 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 TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES IN THE FIELD AND SHALL NOTIFY THE ENGINEER OF ALL FIELD CHANGES PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER.

- 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.

- 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. ALL TYPICAL AND NOTES SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

- THE FOLLOWING ITEMS SHALL BE SUBMITTED IN WRITING FOR APPROVAL TO THE ENGINEER, ARCHITECT AND OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE FABRICATION OR INSTALLATION OF ANY STRUCTURAL ITEM. THE CONTRACTOR SHALL RETAIN ALL RESPONSIBILITY FOR MEANS AND METHODS OF CONSTRUCTION.

SHORING MONITORING PROGRAM: SEE MONITORING SECTION.
SHORING SEQUENCING PROGRAM
CONCRETE AND GROUT MIX DESIGN

- SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

STRUCTURAL STEEL
MISCELLANEOUS METALS
GROUTS AND CONCRETES.

- SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, 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 WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE DESIGN TEAM.

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.

- UTILITY LOCATION: THE UTILITIES INFORMATION SHOWN ON THE PLANS MAY NOT BE COMPLETE. THE SHORING CONTRACTOR SHALL DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRILLING PILE HOLES OR CUTTING OR DIGGING. THIS INCLUDES POTHOLING ALL UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM DEPTHS AND LOCATIONS AND TO VERIFY THAT THERE ARE NO CONFLICTS WITH THE PILE ELEVATIONS. PILES, INCLUDING CONCRETE CASING SHALL MAINTAIN A MINIMUM OF 12" CLEARANCE TO ANY EXISTING UTILITIES TO REMAIN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF CONFLICTS. CONFLICTS SHALL BE RESOLVED IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION.

QUALITY ASSURANCE

- SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1704 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL INSPECTIONS. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS WITHIN TWO WEEKS OF COMPLETION OF EACH PHASE OF WORK. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED

STRUCTURAL STEEL FABRICATION AND ERECTION PER TABLE 1705.2
SOIL CONDITIONS, FILL PLACEMENT, AND DENSITY PER TABLE 1705.6
CAST-IN-PLACE DEEP FOUNDATION PER TABLE 1705.8

PERIODIC INSPECTION ALLOWS INSPECTION AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS. CONTINUOUS SPECIAL INSPECTION REQUIRES THAT THE INSPECTOR BE ONSITE AT ALL TIMES THAT WORK REQUIRING SPECIAL INSPECTION IS PERFORMED.

- INSPECTORS SHALL BRING DEFICIENCIES TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE INSPECTOR SHALL BRING THE UNCORRECTED DEFICIENCY TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER IMMEDIATELY AND PRIOR TO COMPLETION OF THAT PHASE OF WORK.

- SOILS INSPECTION: INSPECTION BY THE SOILS ENGINEER SHALL BE PERFORMED FOR PILE PLACEMENT. ALL PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF PILES. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING LAB. THE GEOTECHNICAL ENGINEER SHALL ALSO ADVISE ON WATER CONTROL AND SLAB ON GRADE CONSTRUCTION.

SHORING MONITORING

- A SYSTEMATIC PROGRAM OF MONITORING SHALL BE CONDUCTED DURING THE PROJECT EXECUTION TO DETERMINE THE EFFECT OF CONSTRUCTION ON ADJACENT FACILITIES AND STRUCTURES IN ORDER TO PROTECT THEM FROM DAMAGE. REFER TO REPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDATIONS. FIELD DATA AND MEASUREMENTS ARE TO BE SUBMITTED TO THE STRUCTURAL AND GEOTECHNICAL ENGINEER FOR REVIEW.

- MONITORING SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR (PLS) LICENSED IN THE STATE OF WASHINGTON.

- UNLESS OTHERWISE REQUIRED BY THE GEOTECHNICAL ENGINEER, THE MONITORING PROGRAM SHALL INCLUDE A VIDEO OR PHOTOGRAPHIC SURVEY PRIOR TO THE BEGINNING OF THE SHORING INSTALLATION TO DOCUMENT THE CURRENT CONDITIONS OF THE SURROUNDING FEATURES. THE SIZE AND LOCATION OF ANY EXISTING CRACKS IN ADJACENT SLABS, PAVEMENTS OR BUILDINGS SHALL BE MEASURED AND DOCUMENTED. CONTROL POINTS SHALL BE ESTABLISHED AT A DISTANCE WELL AWAY FROM THE WALLS AND SLOPES, AND DEFLECTIONS FROM THE REFERENCE POINTS SHALL BE MEASURED THROUGHOUT CONSTRUCTION BY OPTICAL SURVEY. A MINIMUM OF 3 MONITORING POINTS SHALL BE ESTABLISHED ON NEARBY ADJACENT BUILDINGS. MINIMUM SURVEY FREQUENCY SHALL BE ONCE PER WEEK.

- SOLDIER PILE MONITORING PROGRAM: FOLLOWING INSTALLATION OF THE SOLDIER PILES, MONITORING POINTS SHALL BE ESTABLISHED ON THE TOP OF THE PILES PRIOR TO PROCEEDING WITH THE EXCAVATION. ONE MONITORING POINT SHALL BE ESTABLISHED FOR EVERY FOUR PILES. THE MONITORING POINTS SHALL BE READ DAILY DURING EXCAVATION OPERATIONS AND TWICE WEEKLY ONCE THE EXCAVATION IS COMPLETED. THE INITIAL READINGS FOR THIS MONITORING SHALL BE TAKEN BEFORE STARTING ANY DEMOLITION OR EXCAVATION ON THE SITE. NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEERS, SHORING DESIGNER, AND THE BUILDING DEPARTMENT IF 5" OF MOVEMENT OCCURS BETWEEN TWO CONSECUTIVE READINGS. THE ENGINEERS AND DESIGNERS SHALL DETERMINE THE CAUSE OF DISPLACEMENT AND DEVELOP REMEDIAL MEASURES IF WARRANTED. PLEASE NOTE THAT A MAXIMUM OF 1" HORIZONTAL DISPLACEMENT IS REQUIRED ANYWHERE ON SHORING WALL SURFACES THROUGHOUT THE SHORING WALL SERVICE LIFETIME. CONSTRUCTION SHALL BE SUSPENDED IMMEDIATELY AND REMEDIAL PROCEDURES APPLIED AS LONG AS A DISPLACEMENT READING EXCEEDS 1". IF THE TOTAL MEASURED LATERAL DEFLECTION OF THE PILES EXCEEDS 1", REMEDIAL MEASURES MAY BE REQUIRED.

- EACH SET OF MONITORING DATA MUST BE PROVIDED TO THE GEOTECHNICAL ENGINEER FOR REVIEW. IT MAY BE NECESSARY TO INSTALL ADDITIONAL MONITORING POINTS IF WARRANTED BY THE DATA. RECOMMENDATIONS WILL BE PROVIDED BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION IF ADDITIONAL MONITORING POINTS BECOME NECESSARY.

- SURVEY FREQUENCY MAY BE DECREASED AFTER THE SHORING SYSTEM HAS BEEN INSTALLED AND EXCAVATION IS COMPLETE IF THE DATA INDICATES LITTLE OR NO ADDITIONAL MOVEMENT. CHANGE IN THE SURVEY FREQUENCY SHALL BE APPROVED IN WRITING BY THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SURVEYING MUST CONTINUE UNTIL THE PERMANENT STRUCTURE (INCLUDING FLOOR SLABS AS BRACES) IS COMPLETE TO FINAL AND STREET GRADES.

GEOTECHNICAL INFORMATION AND CRITERIA

- INSTALLATION OF SHORING, SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION AND FILLING REQUIREMENTS SHALL CONFORM WITH THE RECOMMENDATIONS CONTAINED IN THE SOILS REPORT AND/OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE SUBSURFACE CHARACTERIZATIONS USED TO DESIGN THE SHORING ARE CONTAINED IN THE SOILS REPORT AS REFERENCED ABOVE.

- EXCAVATIONS FOR FOUNDATIONS SHALL BE PER PLAN DOWN TO UNDISTURBED NATIVE MATERIAL PER THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS. OVER EXCAVATED AREAS SHALL BE BACKFILLED WITH LEAN CONCRETE OR PER GEOTECHNICAL RECOMMENDATIONS AT THE CONTRACTOR'S EXPENSE. EXCAVATION SLOPES SHALL BE SAFE AND SHALL NOT BE GREATER THAN THE LIMITS SPECIFIED BY LOCAL, STATE, AND NATIONAL SAFETY REGULATIONS. CONTRACTOR SHALL PROTECT CUT SLOPES AS NECESSARY IF CONSTRUCTION OCCURS DURING WET WEATHER, AND SHALL CONTROL AND MANAGE RUNOFF TO MINIMIZE EFFECTS ON CONSTRUCTION.

- DESIGN SOIL CAPACITIES ARE DETERMINED BY THE GEOTECHNICAL ENGINEER. THE SOIL PRESSURES INDICATED ON THE SOIL PRESSURE DIAGRAM WERE USED FOR DESIGN, IN ADDITION TO THE DEAD AND LIVE LOADS. SEE REPORT OF GEOTECHNICAL INVESTIGATION FOR MORE COMPLETE INFORMATION, INCLUDING RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING MONITORING, EXCAVATION, LAGGING, AND DRAINAGE.

- SOIL DESIGN PARAMETERS PER SH3.1.

- SHORING DURATION: PERMANENT

CONCRETE

- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906, AND ACI 301. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:

f'c (PSI)	Minimum Cement Per Cubic Yard	Max. Water Per 94 LB Cement	Use
-----	1-1/2 sacks	-----	pile lean concrete

STEEL

- STEEL SPECIFICATIONS: DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL, AISC 360 AND SECTION 2205 OF THE BUILDING CODE.

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	FY
WIDE FLANGE SHAPES	A992	50 KSI
OTHER SHAPES, PLATES, AND RODS	A36	36 KSI
HEADED SHEAR STUDS	A108	

- ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT 20 DEGREES F AND 40 FT-LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

- PERMANENT STEEL SHORING SHALL BE GALVANIZED OR PAINTED BLACK FOR CORROSION RESISTANCE.

WOOD

- FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

Use	Grade	Fb (psi)
4X TIMBER LAGGING	DOUGLAS-FIR NO. 1	1000
6X TIMBER LAGGING	DOUGLAS-FIR NO. 1	1350

- ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (2012 EDITION) WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

PILE AND LAGGING CONSTRUCTION

- DEMOLITION: SHORING AND SOIL EXCAVATION SHALL BE DONE SIMULTANEOUSLY.

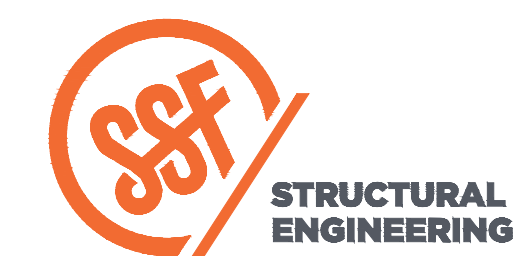
- DIMENSIONS AND LOCATION OF EXISTING STRUCTURES SHALL BE VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER. NOTIFY ENGINEER ABOUT ANY DISCREPANCIES PRIOR TO FABRICATION.

- PILE 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. REFER TO REPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDED HOLE DIGGING PROCEDURE.

- STEEL PILE PLACEMENT TOLERANCES:

1" INSIDE PERPENDICULAR TO SHORING WALL.
1" OUTSIDE PERPENDICULAR TO SHORING WALL.
3" Laterally.
1" IN ANY DIRECTION

- LAGGING: TIMBER LAGGING SHALL BE INSTALLED IN ALL AREAS. VOIDS BETWEEN LAGGING AND SOIL SHALL BE BACKFILLED WITH PEA GRAVEL OR LEAN MIX FILL. DRAINAGE BEHIND THE WALL MUST BE MAINTAINED. IT IS CONTRACTOR'S RESPONSIBILITY TO LIMIT THE AMOUNT OF EXPOSED SOIL WITHOUT LAGGING TO AVOID LOSS OF SOIL. MAXIMUM HEIGHT OF 4 FEET IS RECOMMENDED. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID GROUND LOSS DURING EXCAVATION.



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DRAWN: NHD
CHECKED: BDM
APPROVED: DJS

REVISIONS:
1 Corrections May 4, 2021
2 Corrections 2 Aug. 13, 2021

DPD:

PROJECT TITLE:

Kahan Spec Home

8163 West Mercer Way
Mercer Island, WA 98040

ARCHITECT:

Brandt Design Group

66 Bell Street, Unit 1
Seattle, WA 98121
PH 206.239.0850

ISSUE:

PERMIT

SHEET TITLE:

General Shoring
Notes

SCALE:

DATE: December 14, 2020

PROJECT NO: 01519-2020-15

SHEET NO:

SH1.1



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

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2	Corrections 2	Aug. 13, 2021

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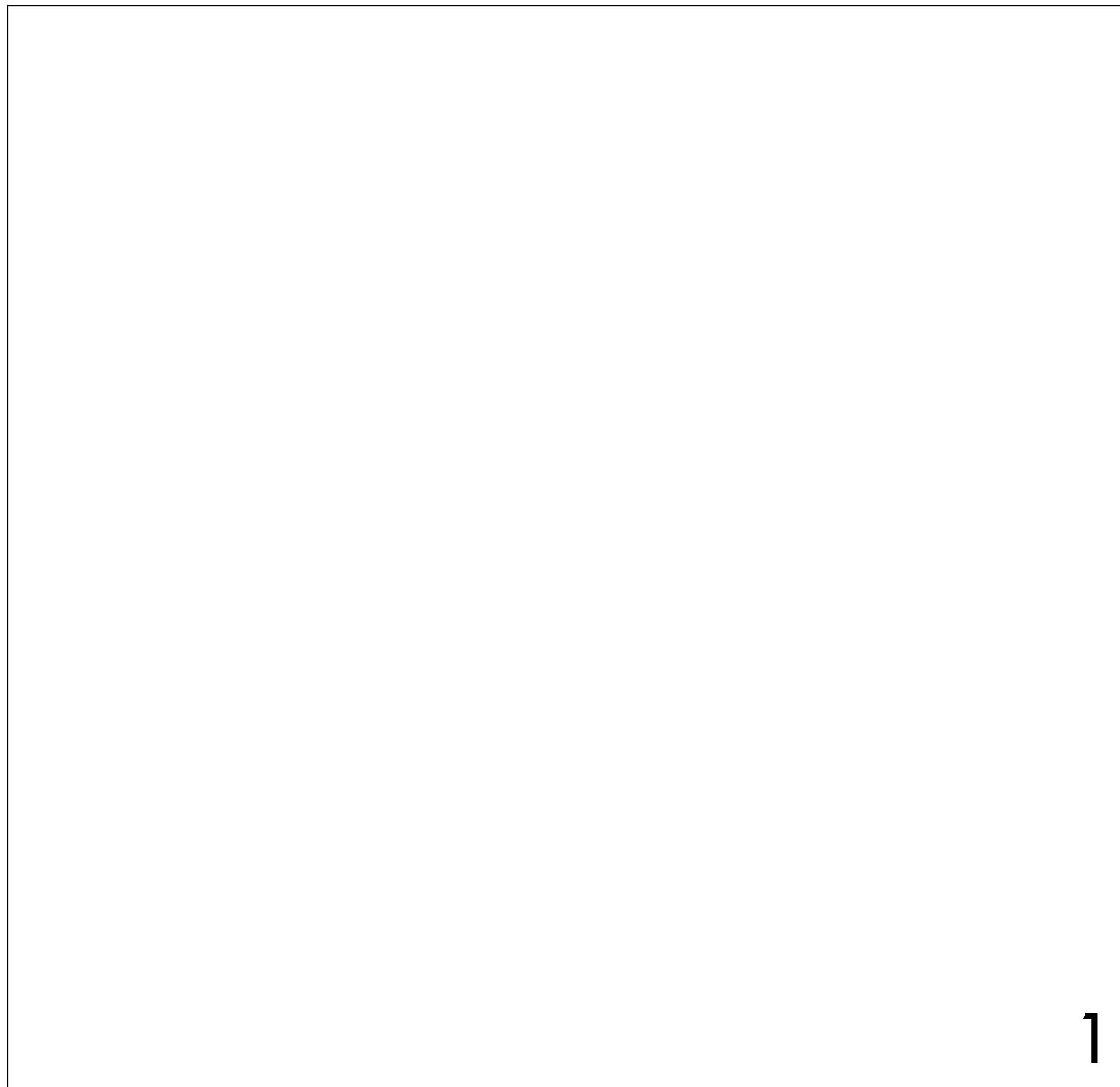
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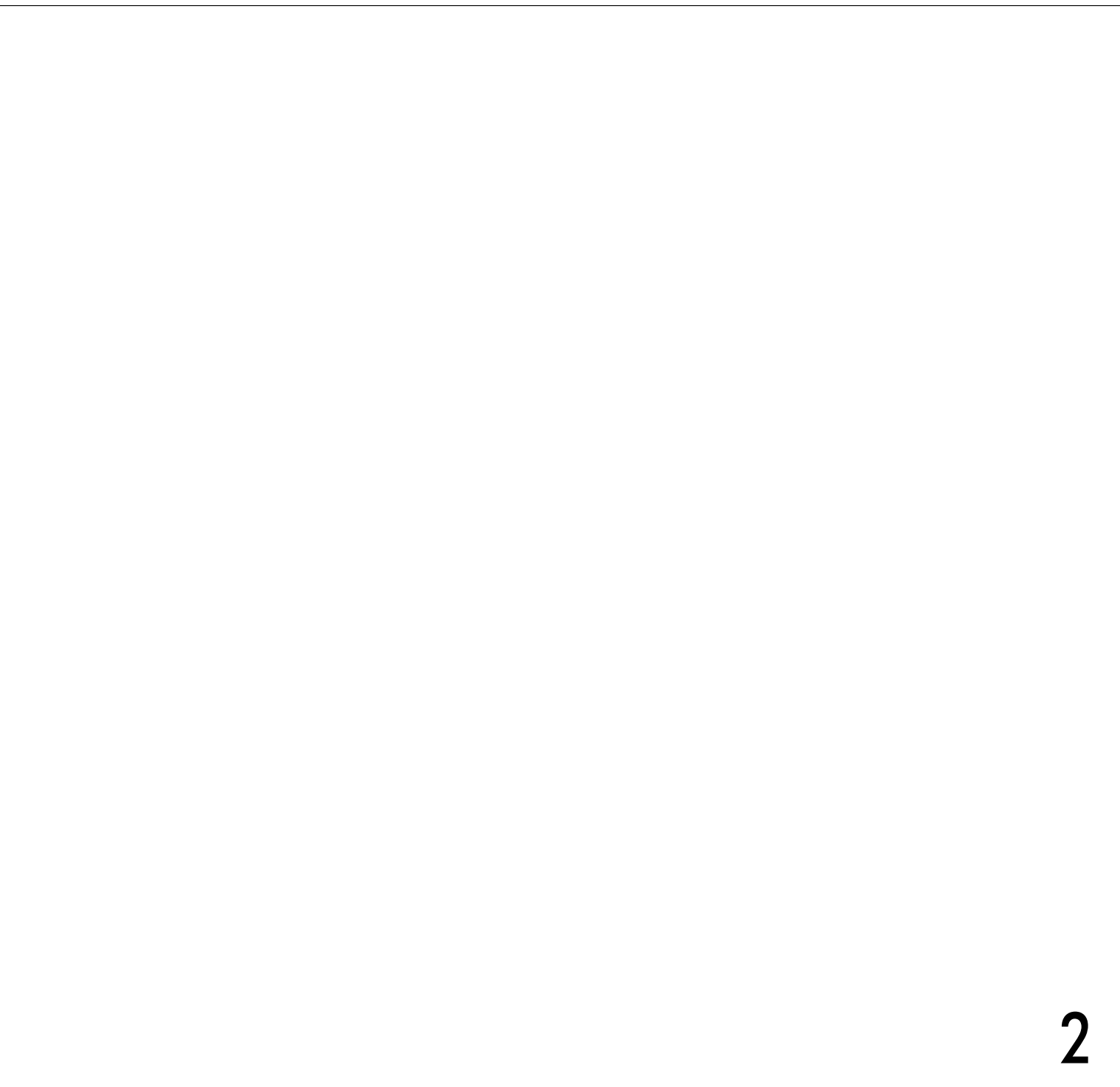
ISSUE:
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 PROJECT NO: 01519-2020-15
 SHEET NO:

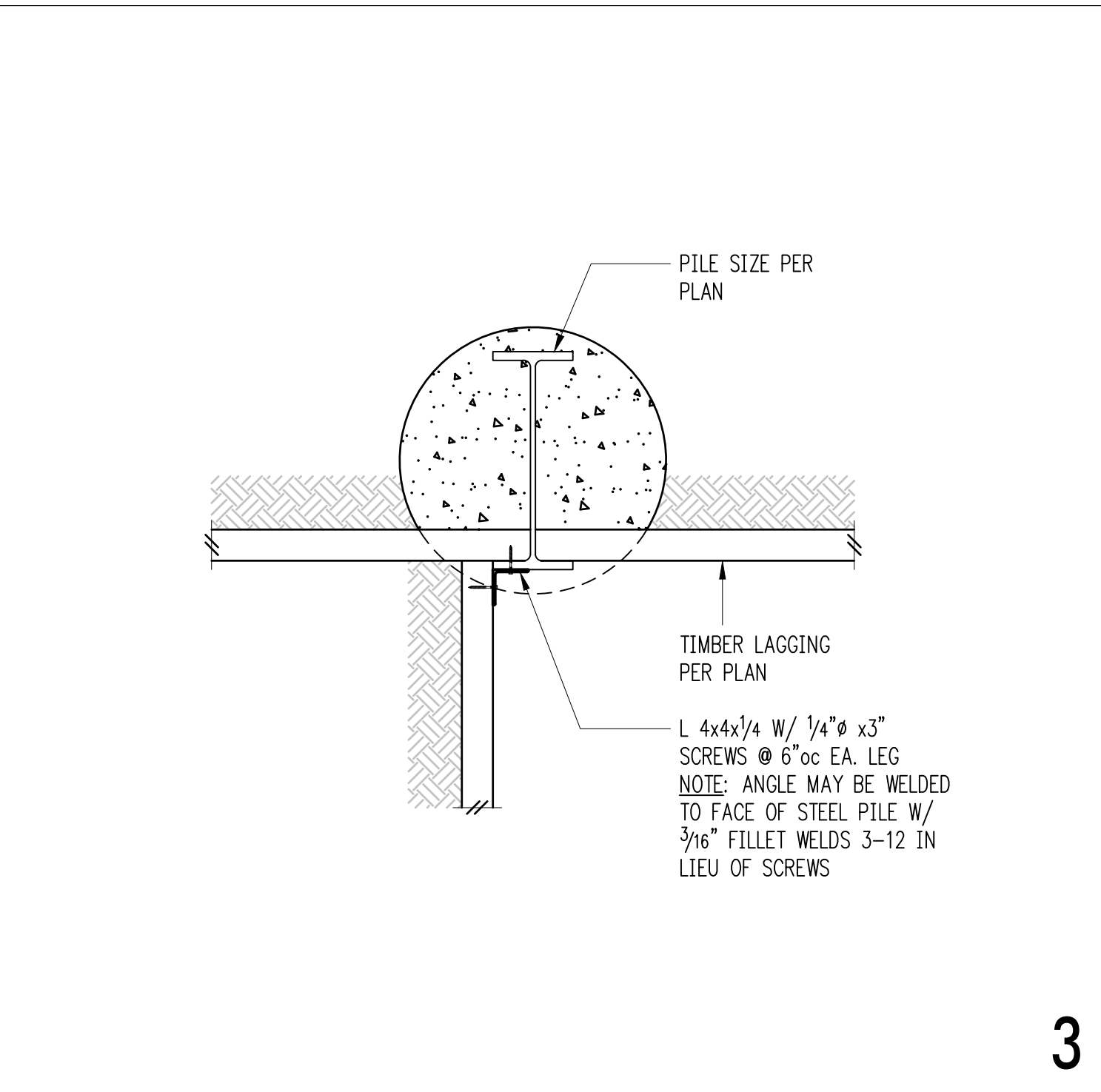
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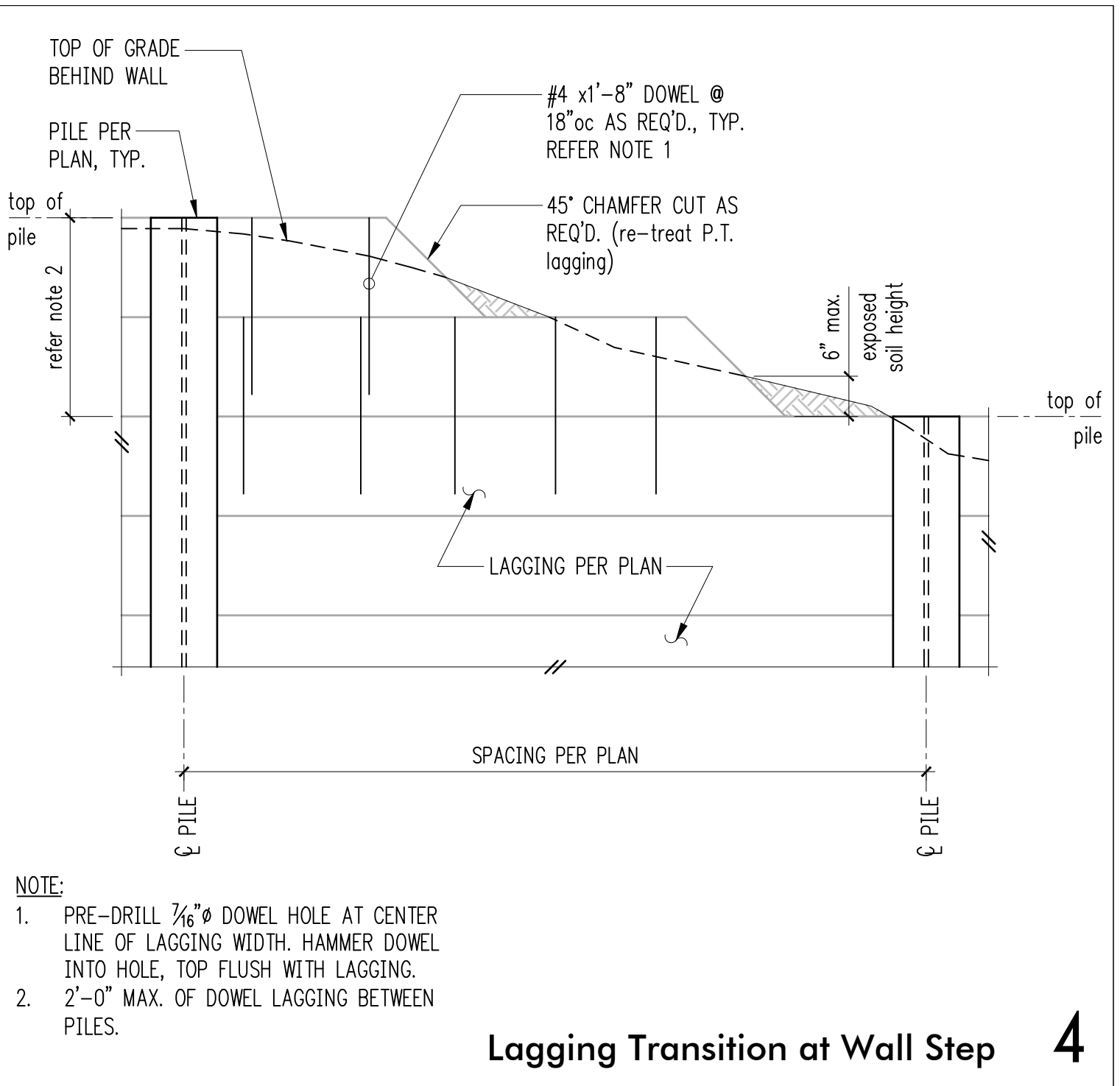
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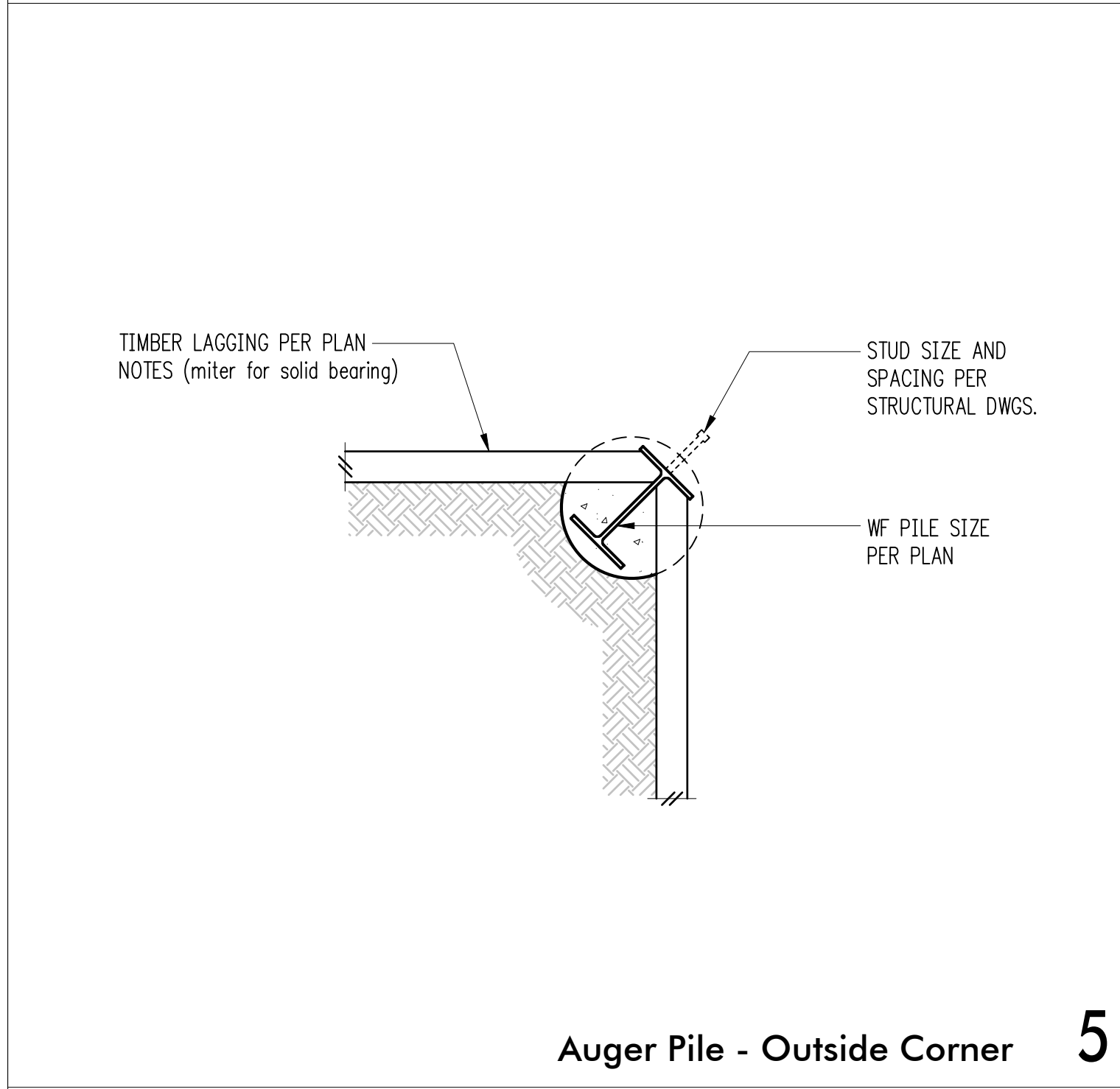
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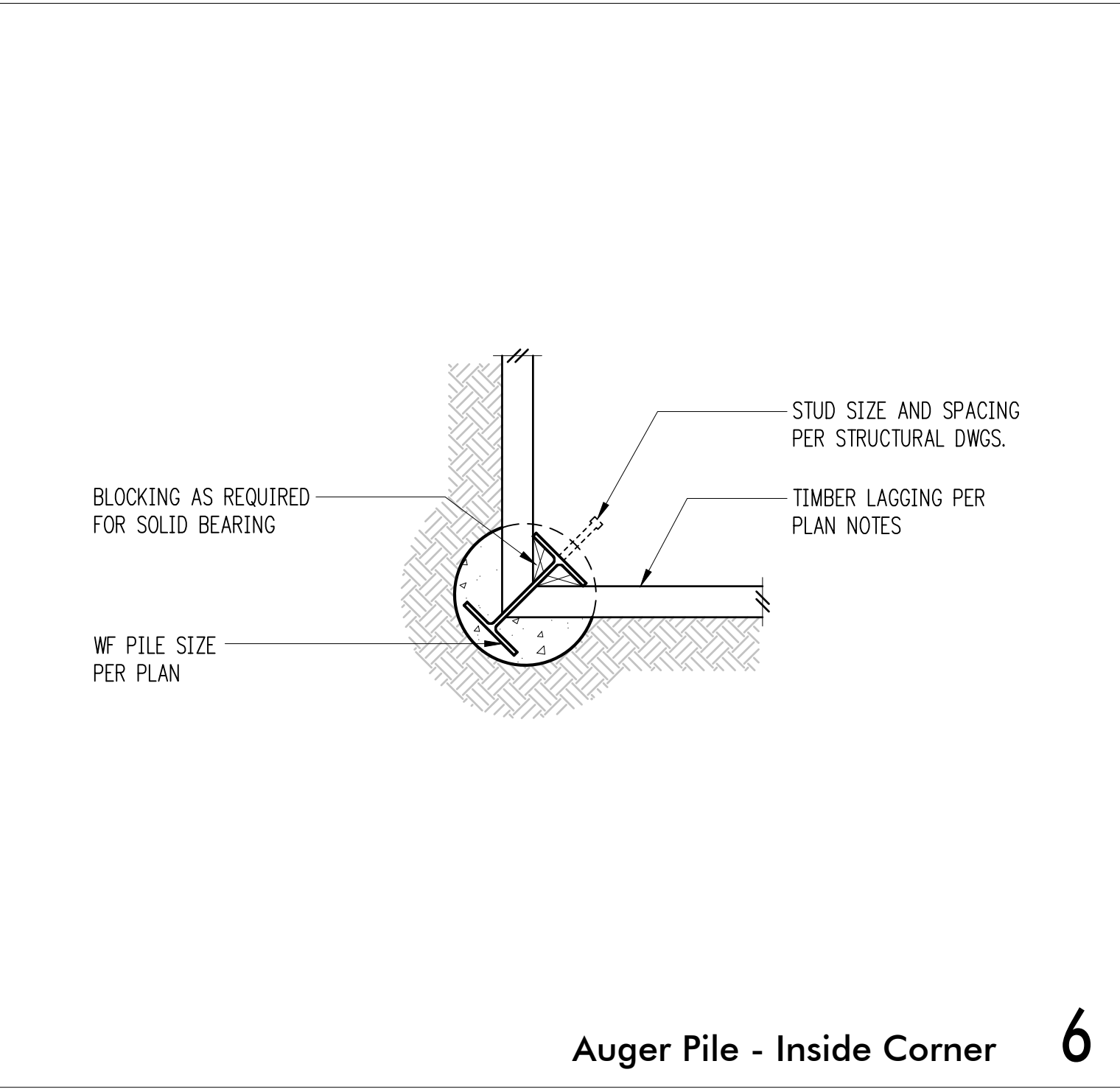
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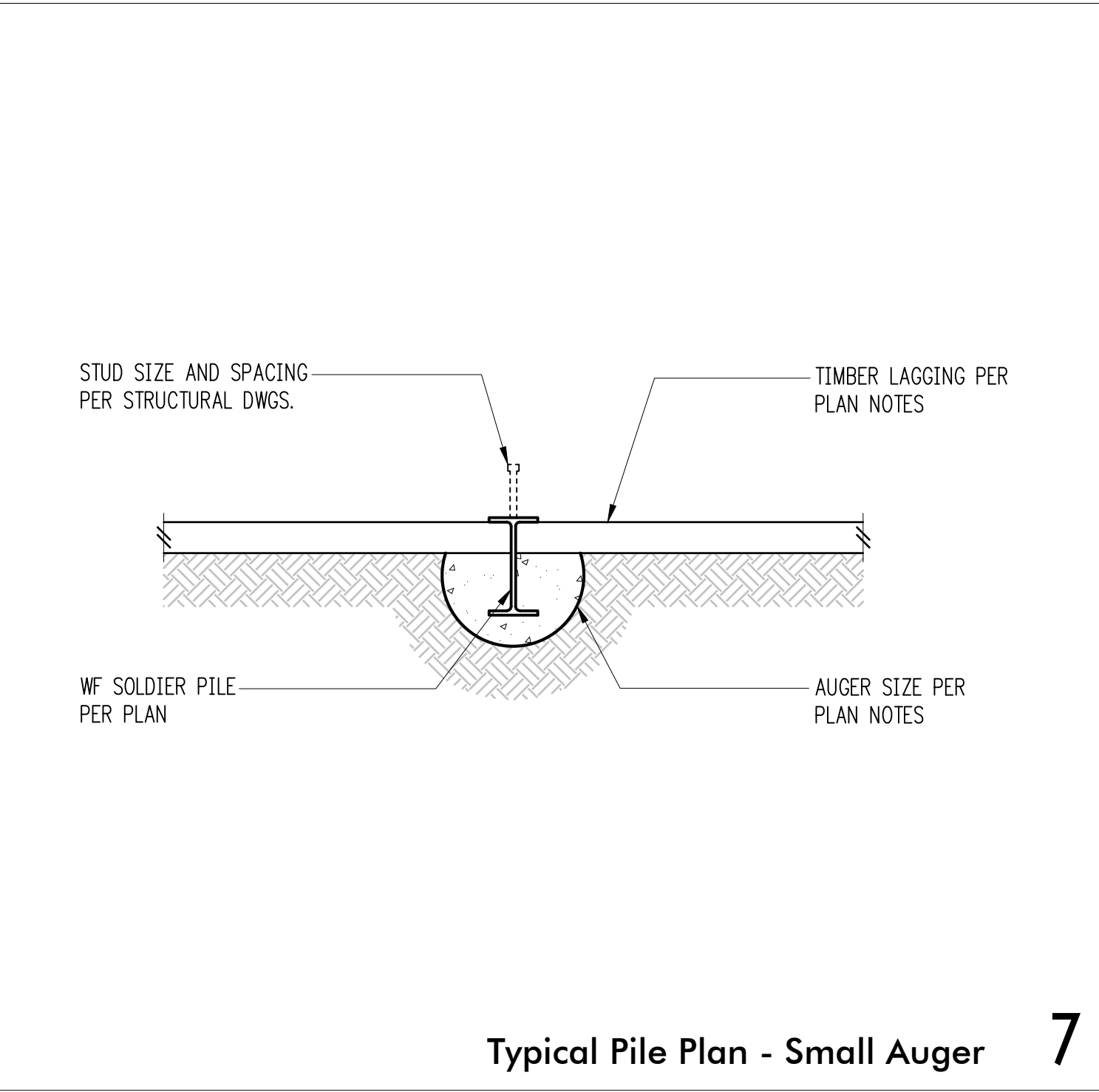
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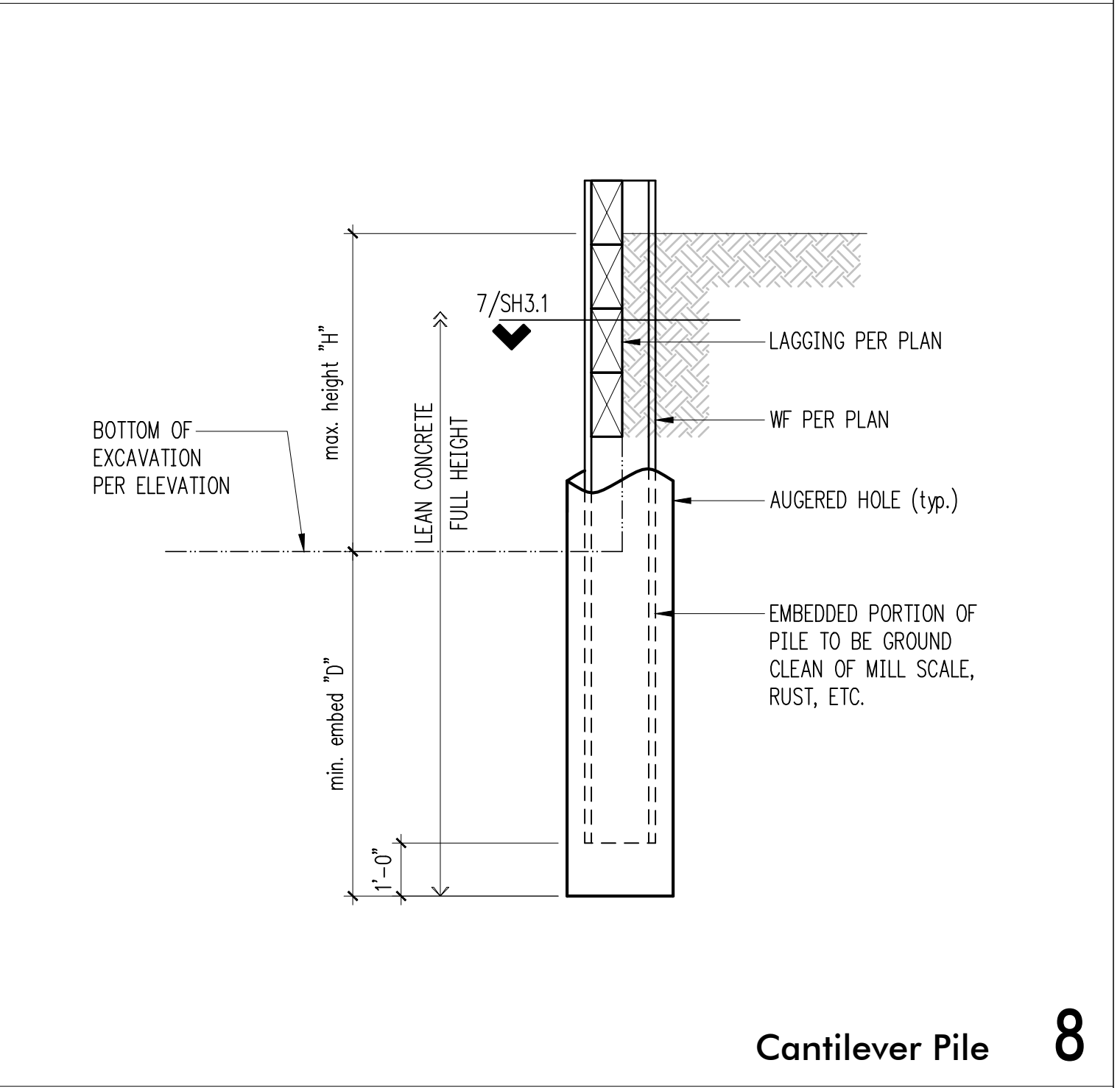
Auger Pile - Outside Corner 5



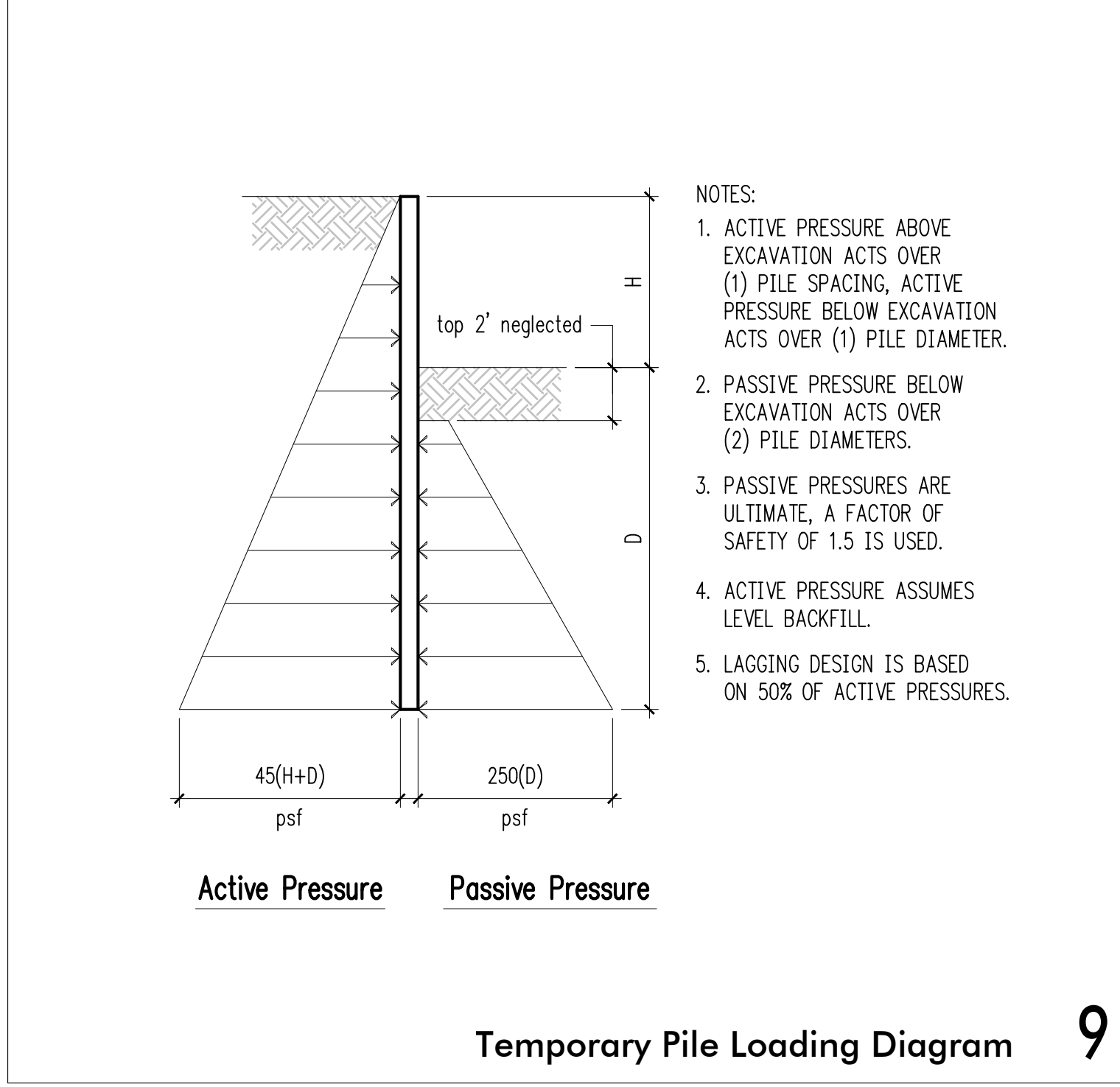
Auger Pile - Inside Corner 6



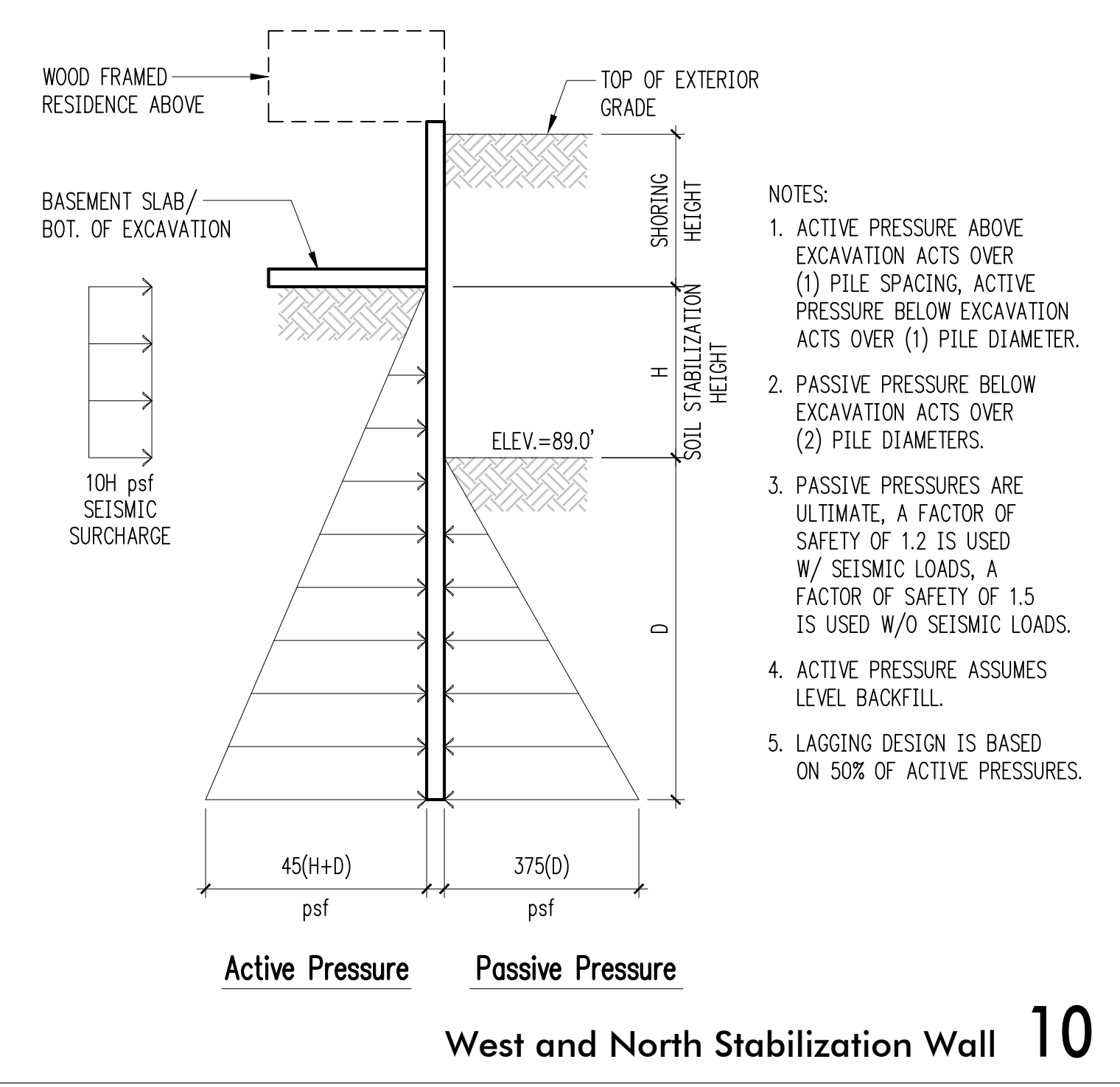
Typical Pile Plan - Small Auger 7



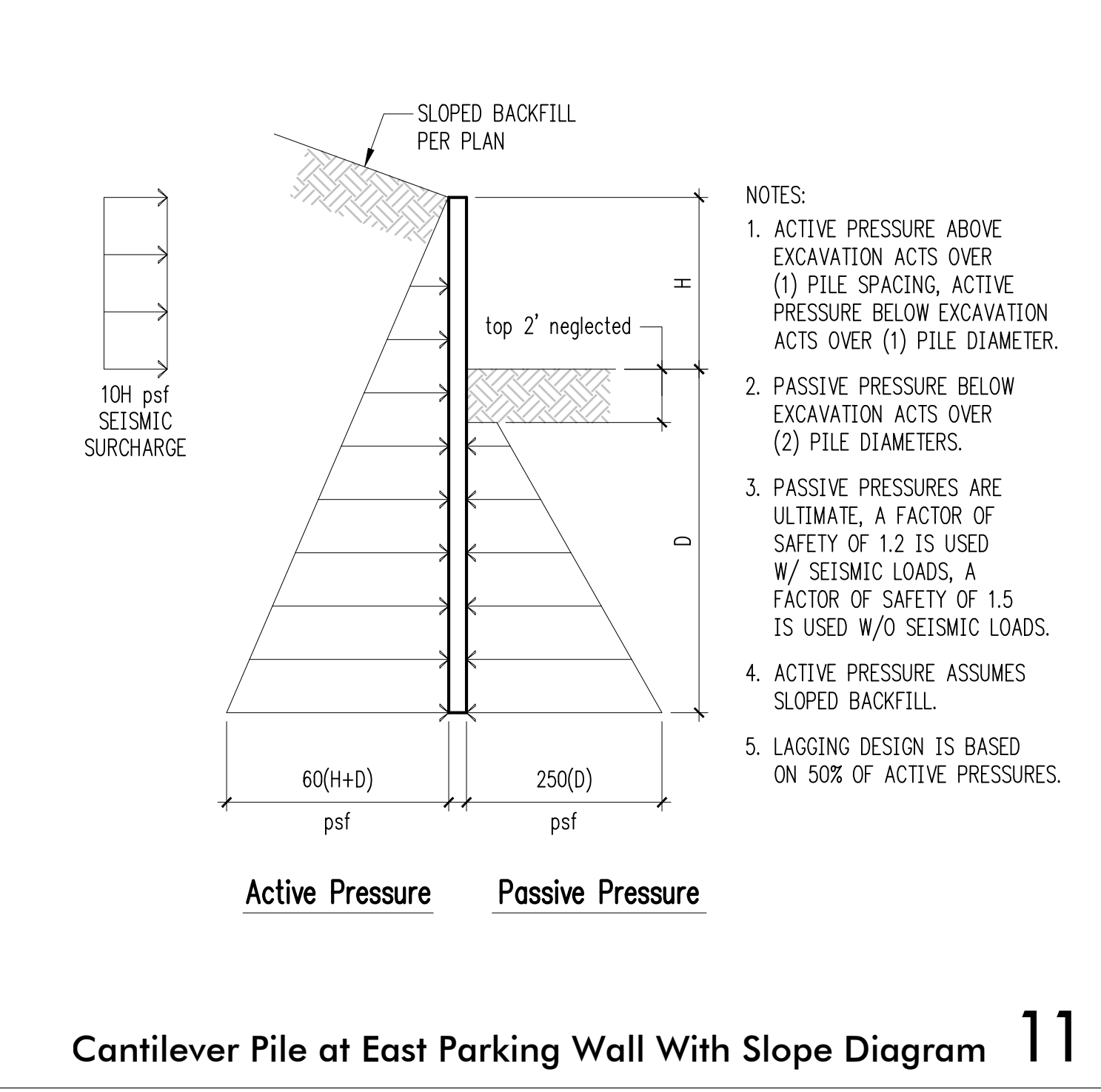
Cantilever Pile 8



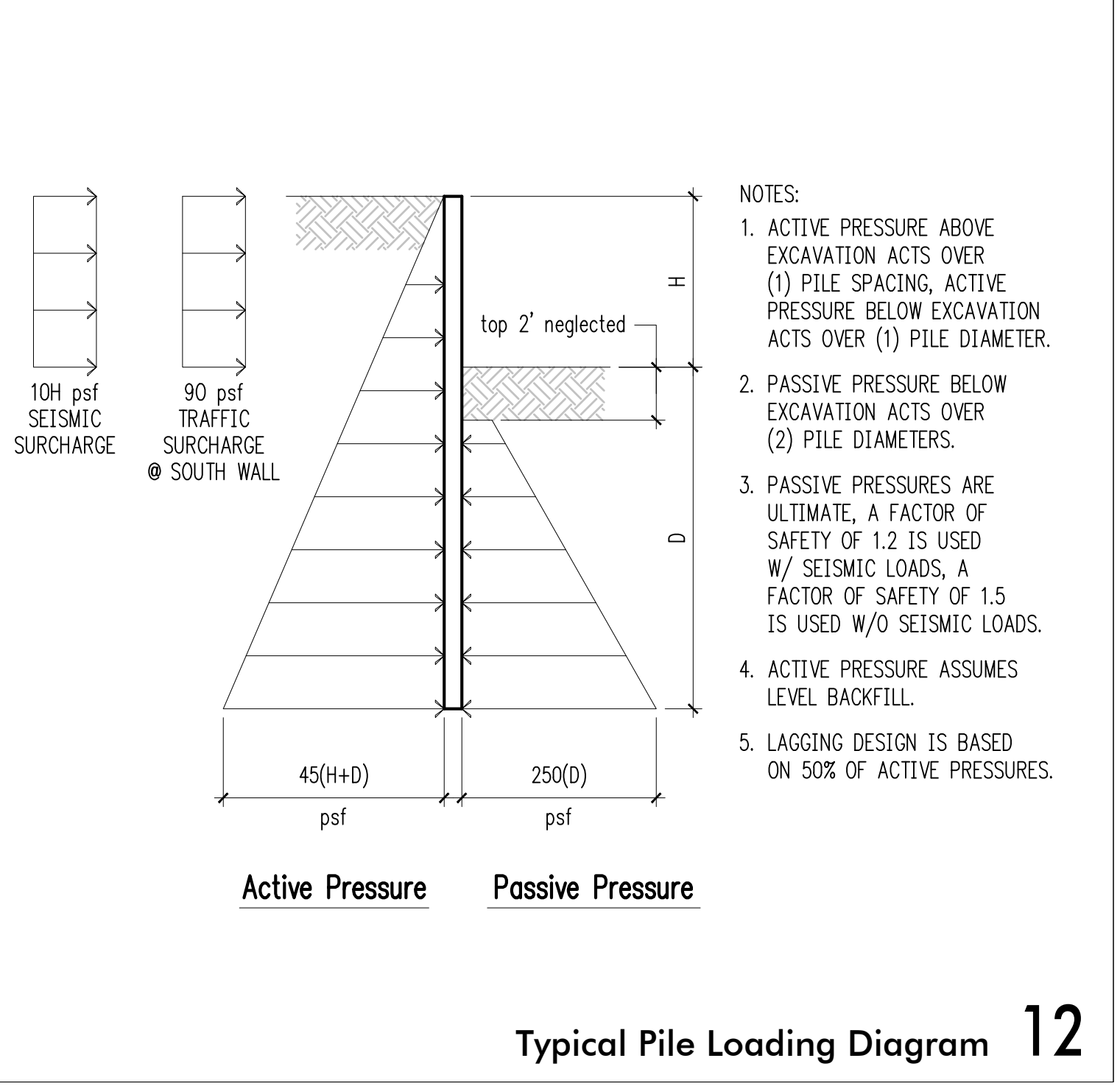
Temporary Pile Loading Diagram 9



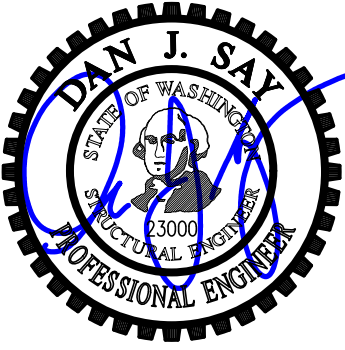
West and North Stabilization Wall 10



Cantilever Pile at East Parking Wall With Slope Diagram 11



Typical Pile Loading Diagram 12



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DRAWN: NHD
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APPROVED: DJS

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1 Corrections May 4, 2021
2 Corrections 2 Aug. 13, 2021

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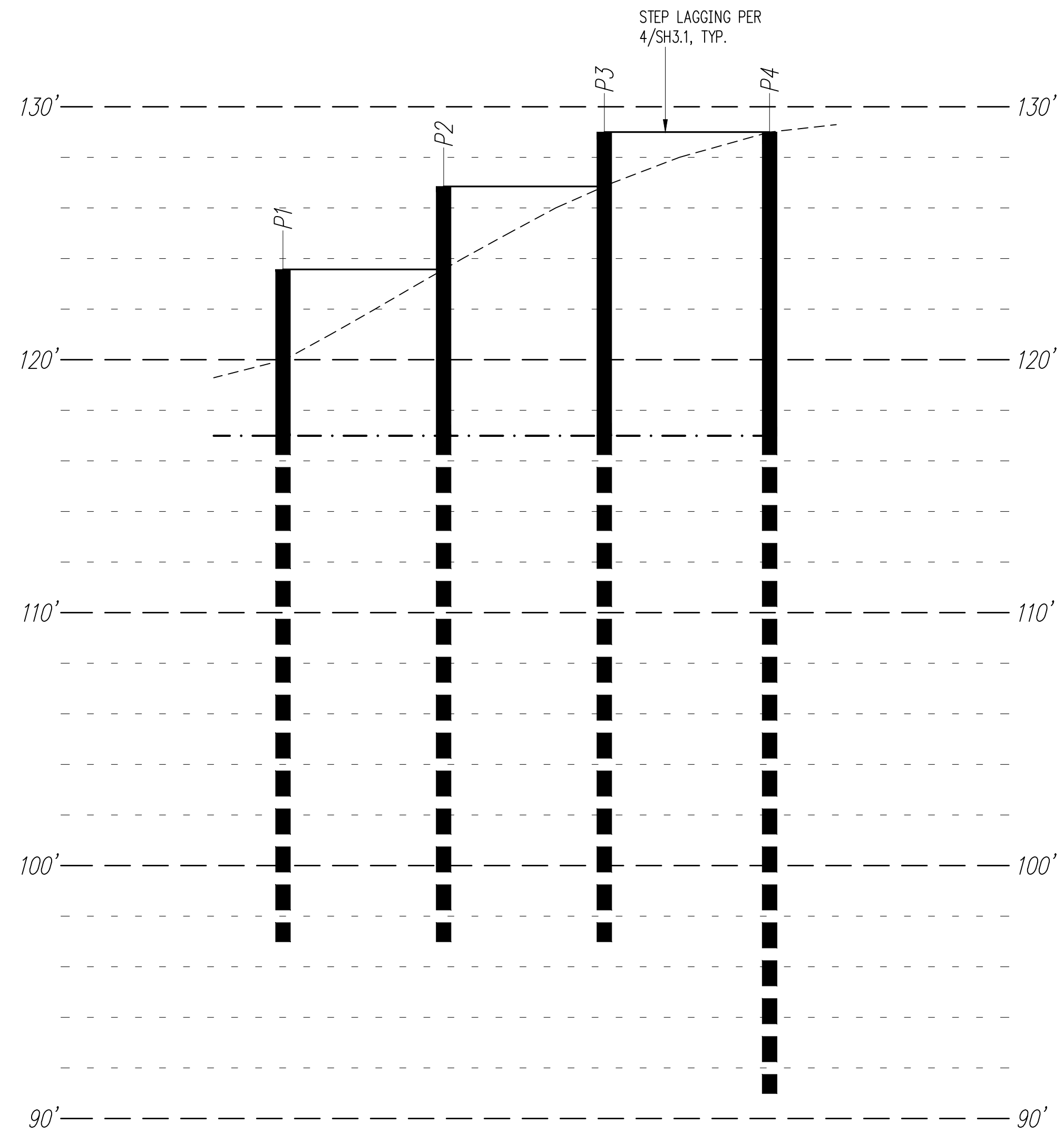
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Elevations**

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SH4.1



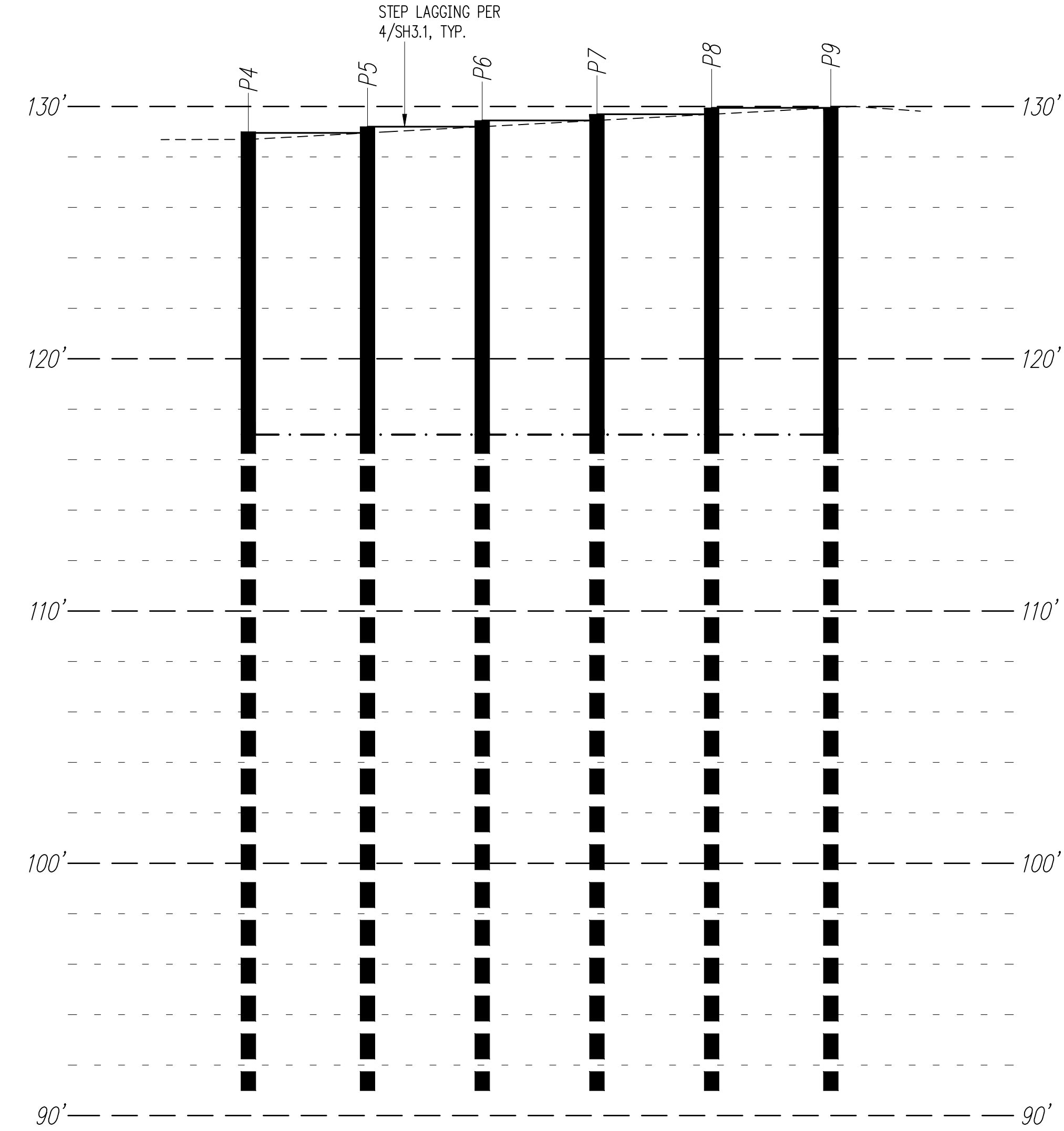
Legend

- APPROXIMATE TOP OF GRADE
- . - . - . BOTTOM OF EXCAVATION
- Px— STEEL PILE PER PLAN/SCHEDULE
- 4x LAGGING

North Shoring Elevation

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

1



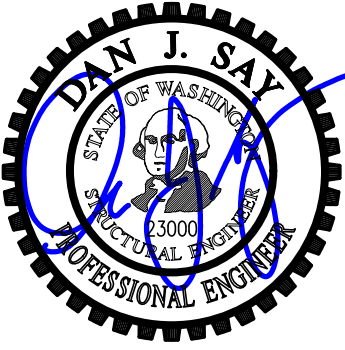
Legend

- APPROXIMATE TOP OF GRADE
- . - . - . BOTTOM OF EXCAVATION
- Px— STEEL PILE PER PLAN/SCHEDULE
- 4x LAGGING

East Shoring Elevation

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

2



DESIGN: HAA, BDM
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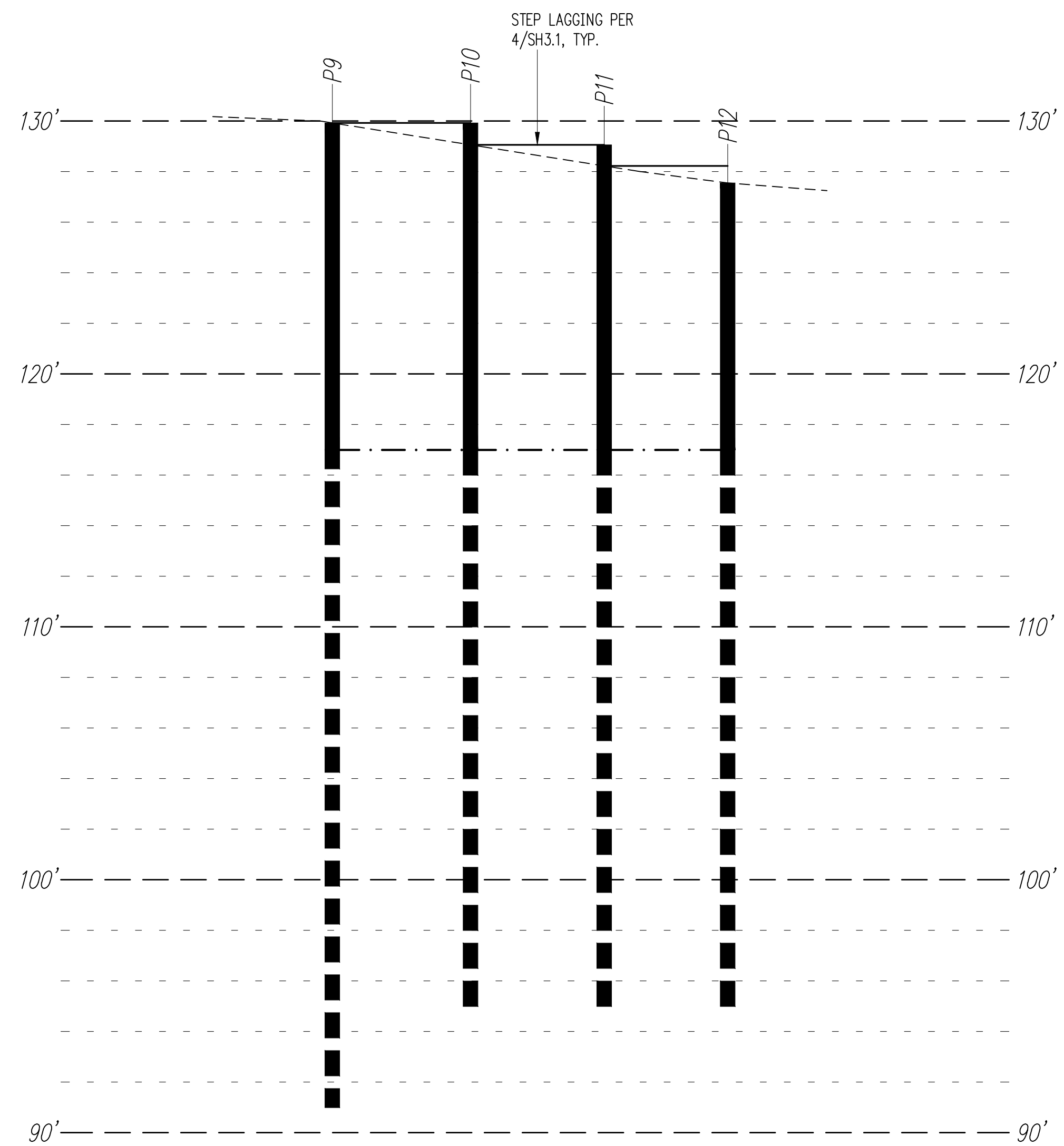
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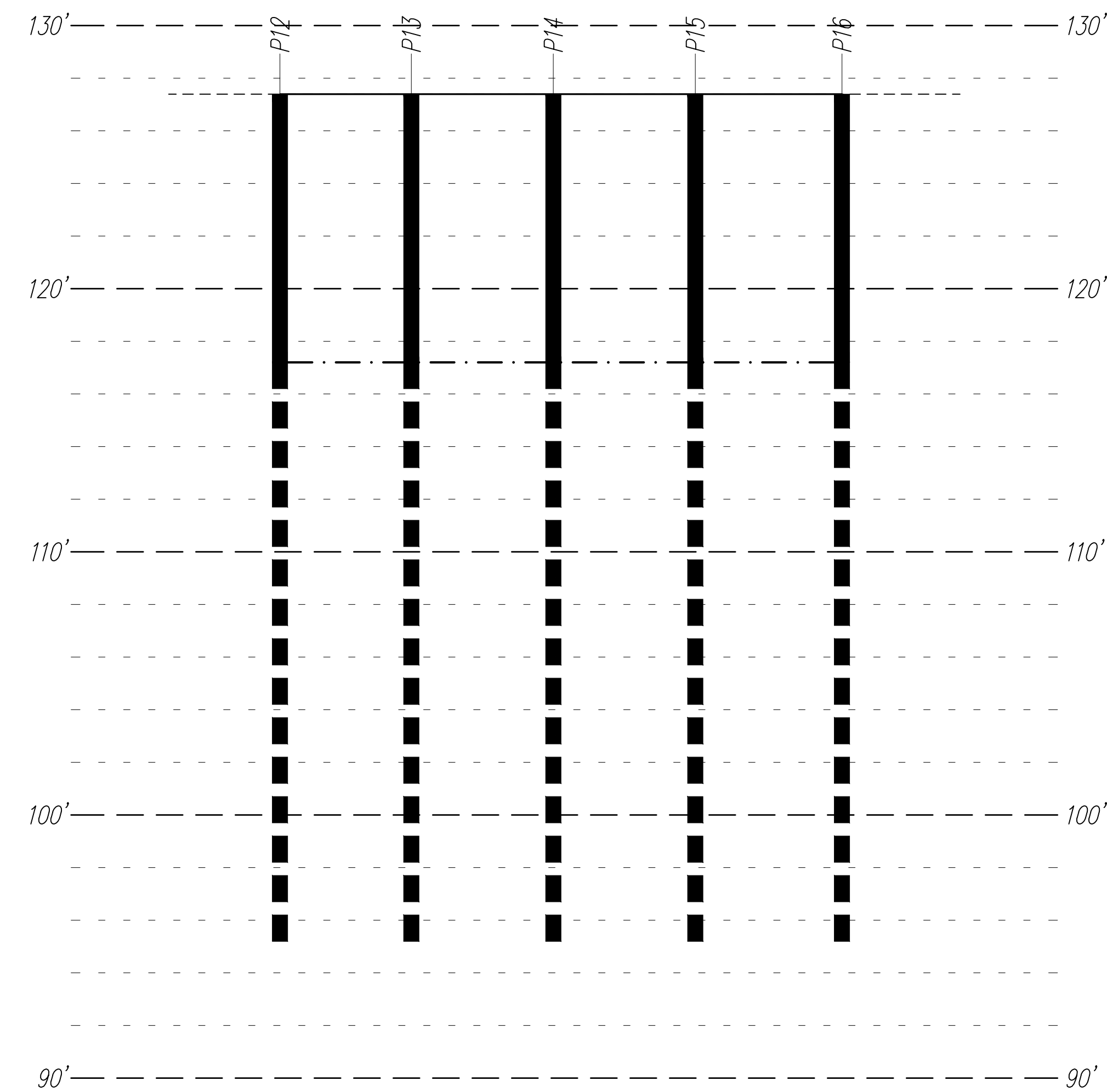
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SH4.2



Legend
 - - - - - APPROXIMATE TOP OF GRADE
 - · - · - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 4x LAGGING

South Shoring Elevation ①
 LOOKING SOUTH
 Scale: 1/4" = 1'-0"



Legend
 - - - - - APPROXIMATE TOP OF GRADE
 - · - · - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 4x LAGGING

East Shoring Elevation ②
 LOOKING EAST
 Scale: 1/4" = 1'-0"



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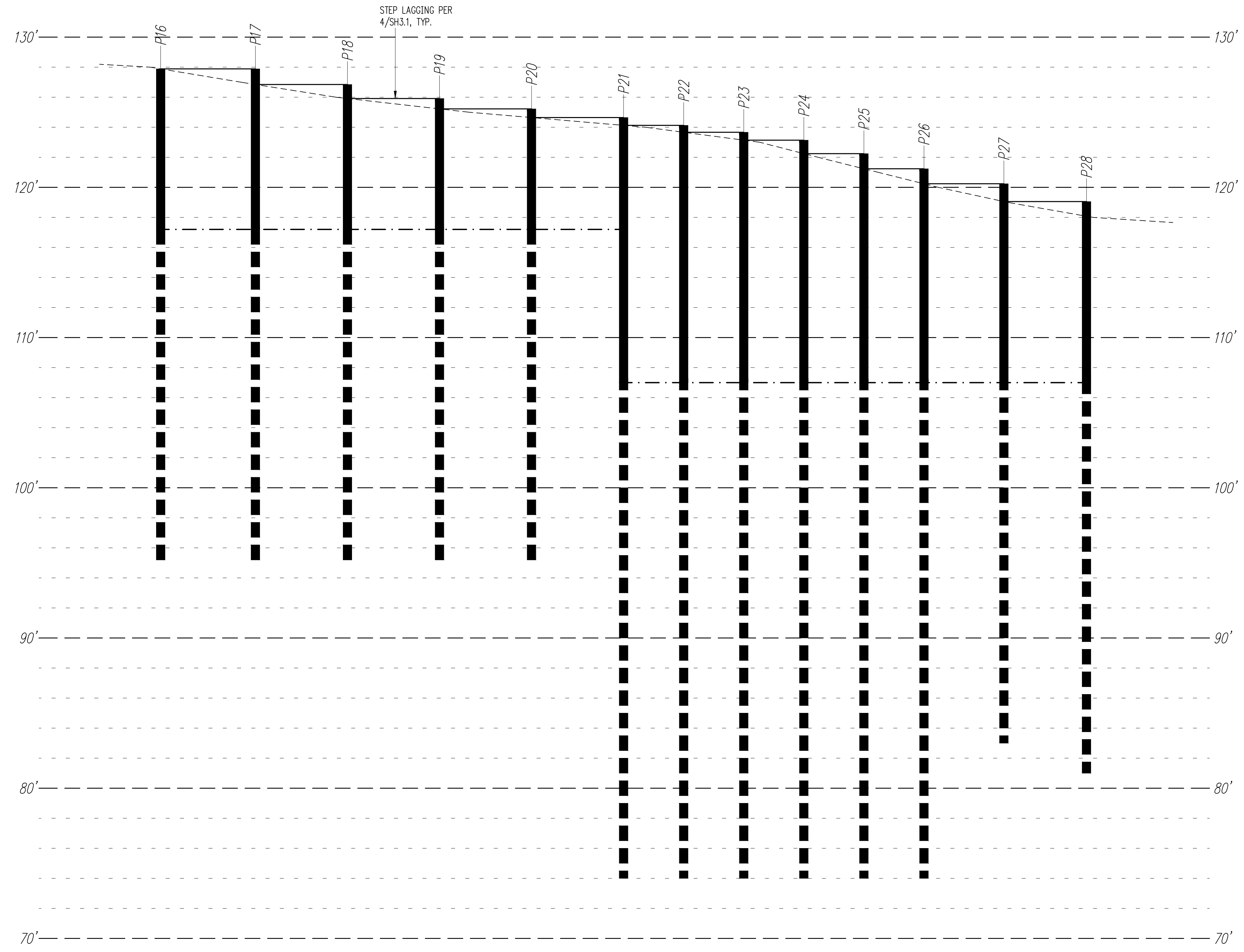
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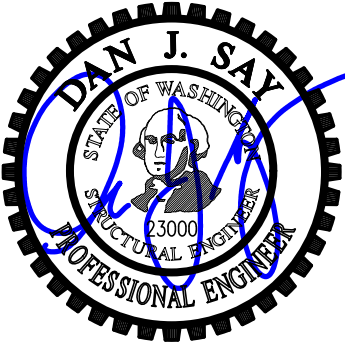
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SH4.3



Legend
 - - - - - APPROXIMATE TOP OF GRADE
 - . - . - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 4x LAGGING

South Shoring Elevation ①
 LOOKING SOUTH
 Scale: 1/4" = 1'-0"



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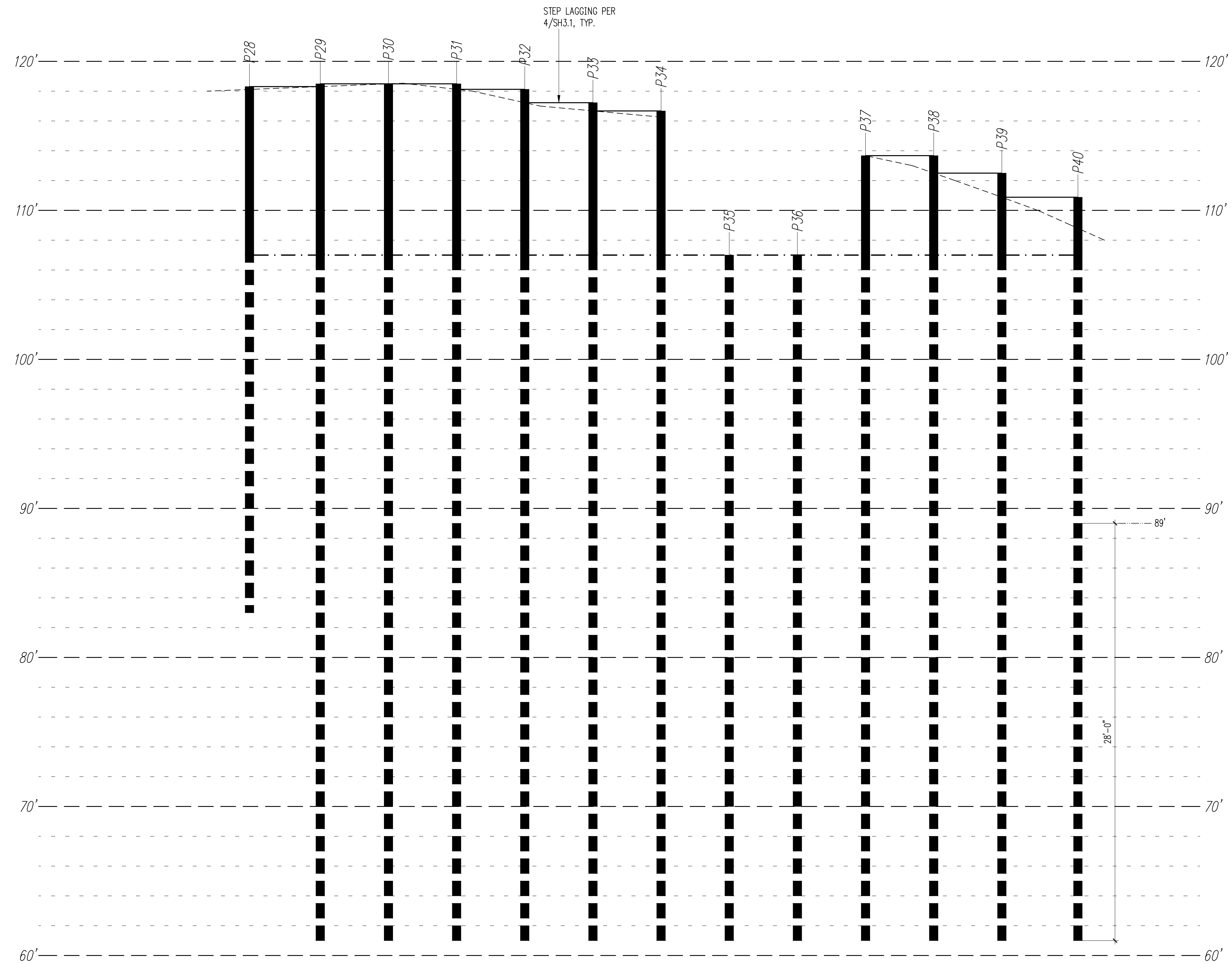
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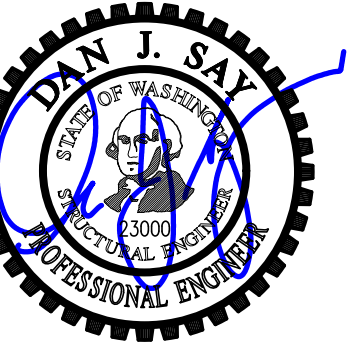
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SH4.4



Legend
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 - . - . - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 4x LAGGING

West Shoring Elevation ①
 LOOKING WEST
 Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM
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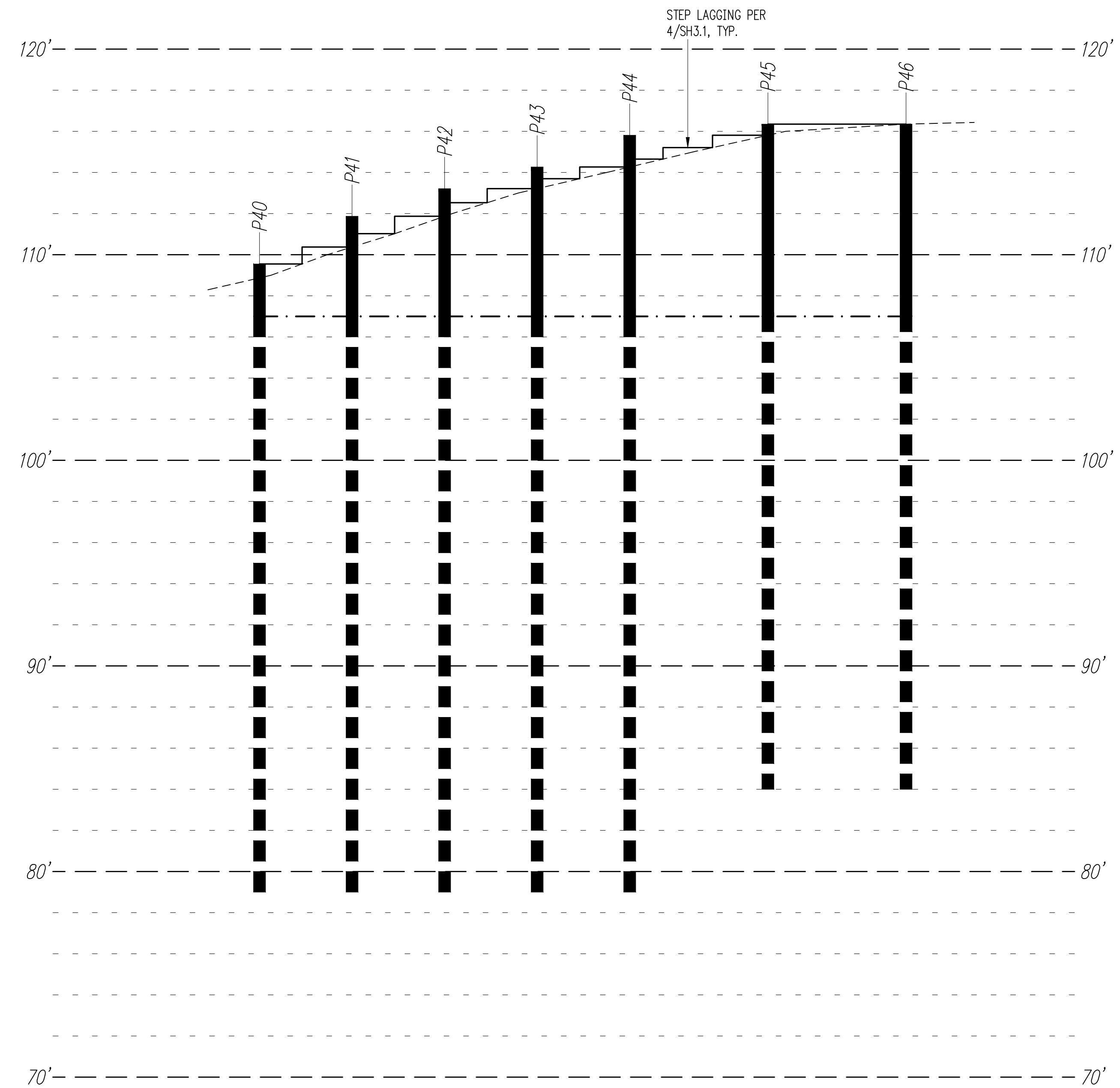
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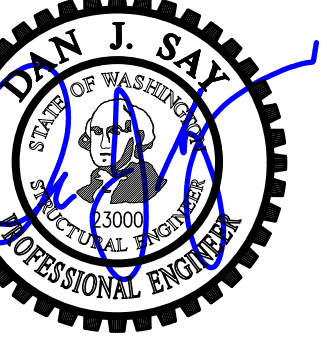
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SH4.5



Legend
 - - - - - APPROXIMATE TOP OF GRADE
 - · - - - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 4x LAGGING

North Shoring Elevation ①
 LOOKING NORTH
 Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM
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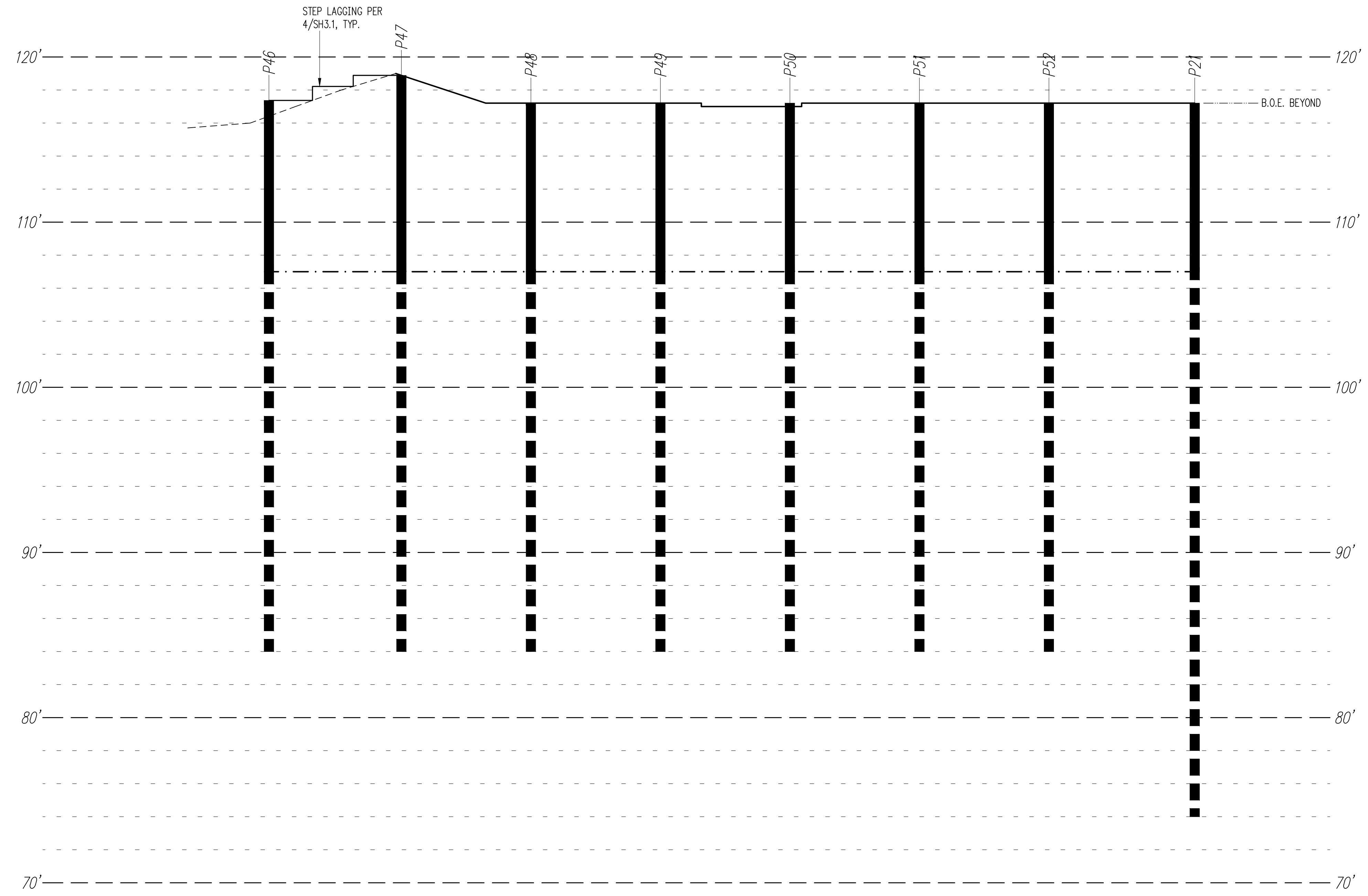
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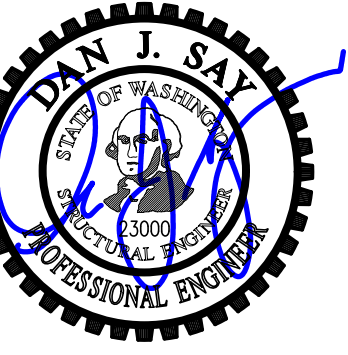
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DATE: December 14, 2020
PROJECT NO: 01519-2020-15
SHEET NO:

SH4.6



Legend
 - - - - - APPROXIMATE TOP OF GRADE
 - . - . - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 4x LAGGING

East Shoring Elevation ①
 LOOKING EAST
 Scale: 1/4" = 1'-0"



DESIGN: HAA, BDM
 DRAWN: NHD
 CHECKED: BDM
 APPROVED: DJS

REVISIONS:

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2	Corrections 2	Aug. 13, 2021

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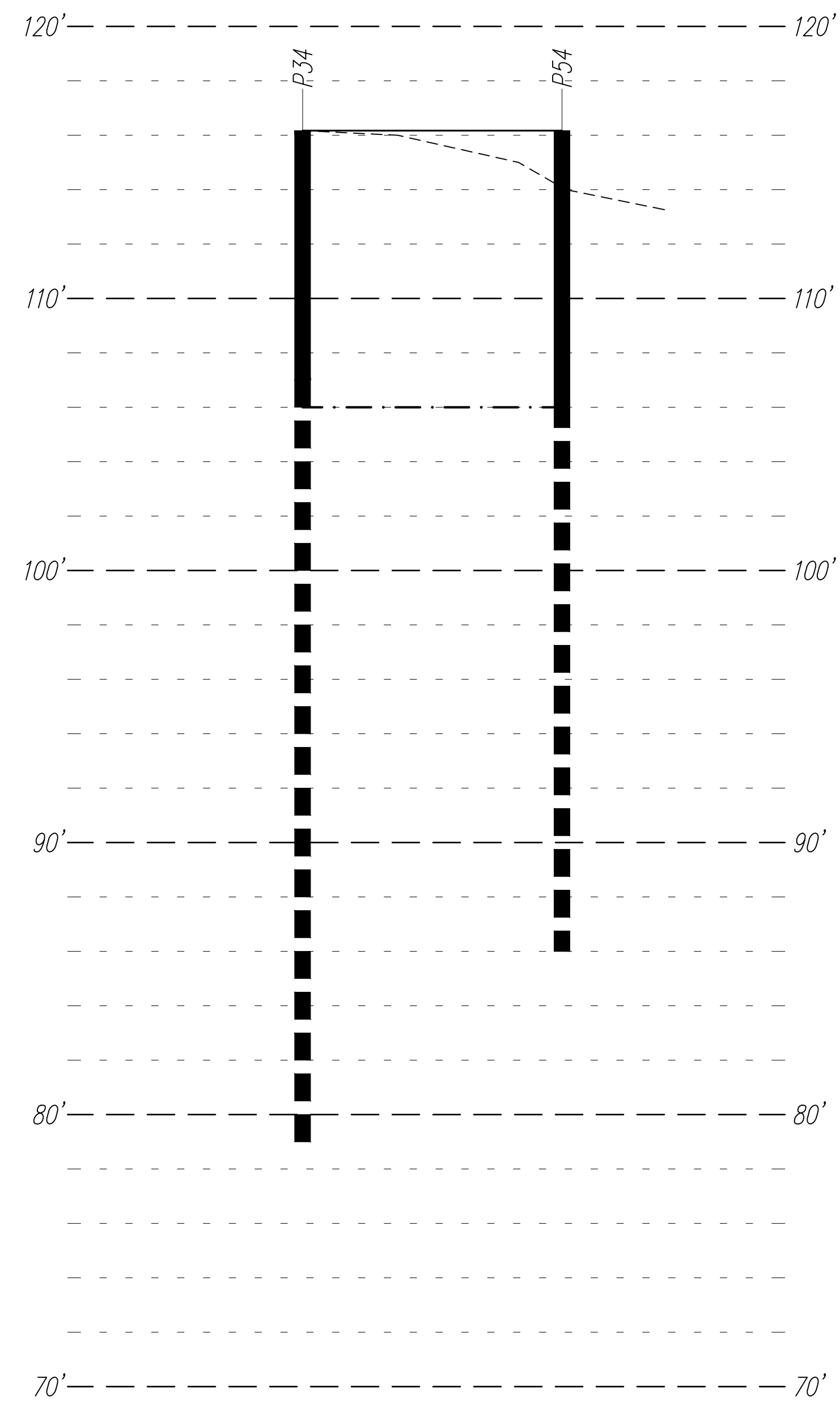
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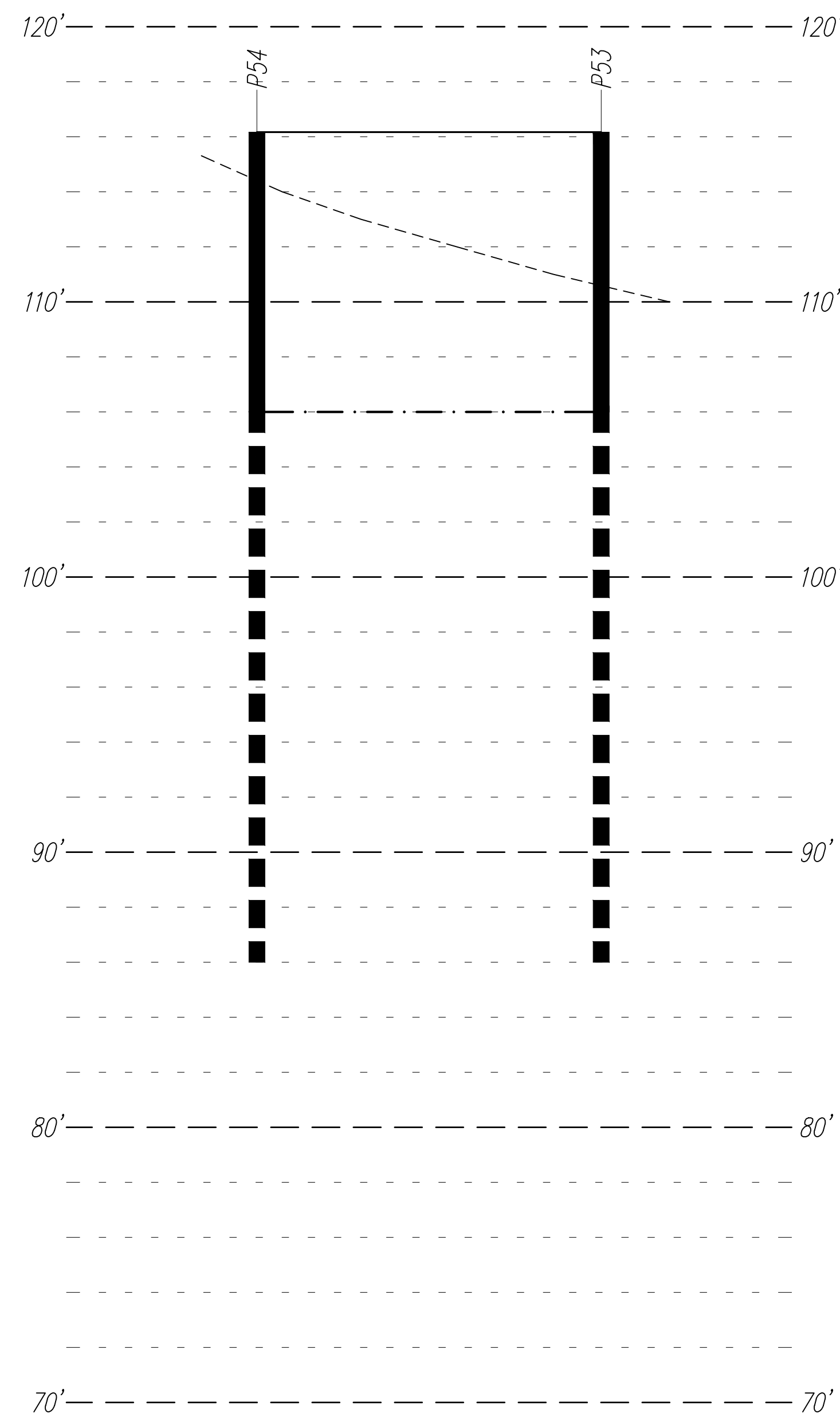
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SH4.7



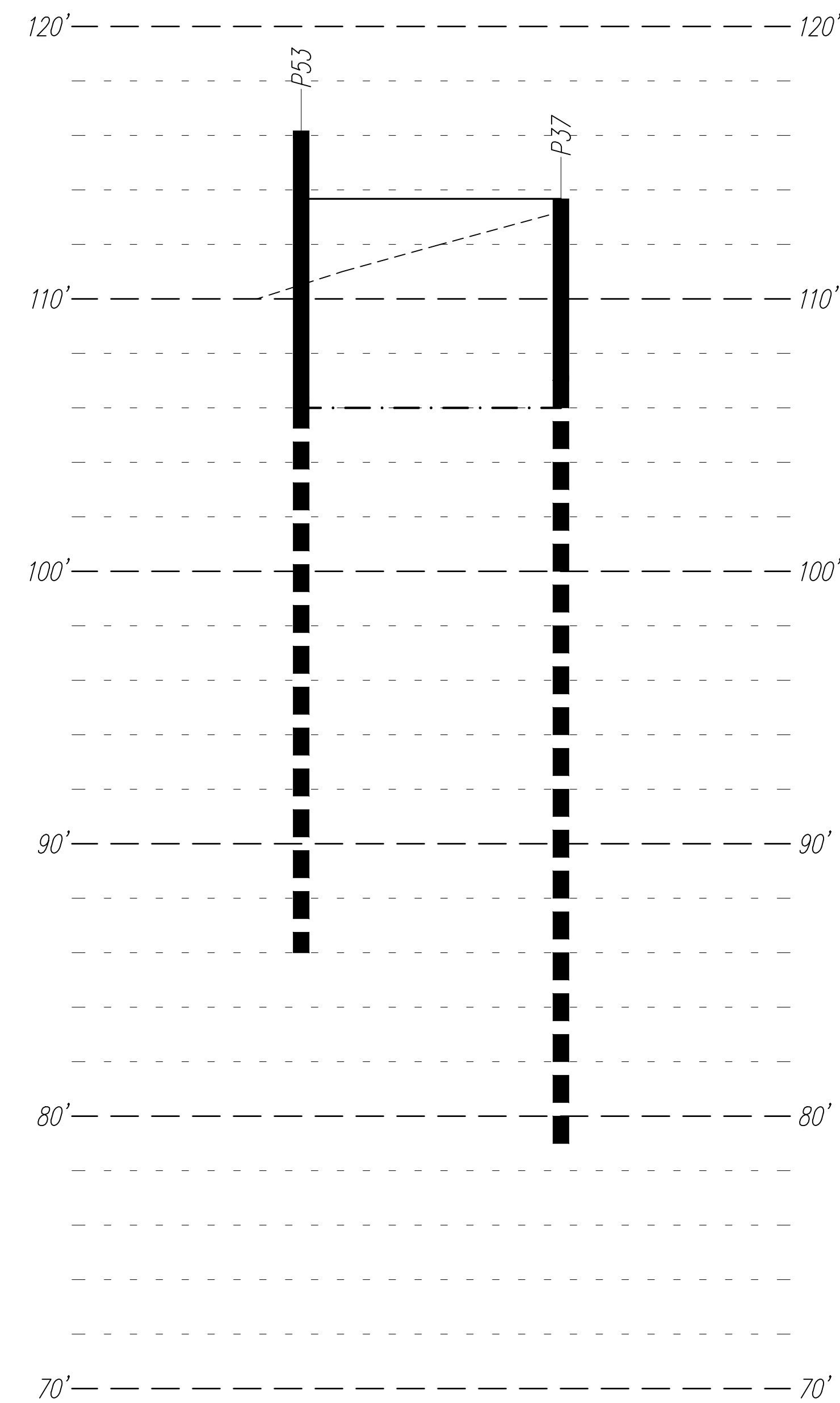
Legend
 - - - - - APPROXIMATE TOP OF GRADE
 - · - · - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 6x LAGGING

South Shoring Elevation ①
 LOOKING SOUTH
 Scale: 1/4" = 1'-0"



Legend
 - - - - - APPROXIMATE TOP OF GRADE
 - · - · - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 6x LAGGING

West Shoring Elevation ②
 LOOKING WEST
 Scale: 1/4" = 1'-0"



Legend
 - - - - - APPROXIMATE TOP OF GRADE
 - · - · - BOTTOM OF EXCAVATION
 — Px — STEEL PILE PER PLAN/SCHEDULE
 ——— 6x LAGGING

North Shoring Elevation ③
 LOOKING NORTH
 Scale: 1/4" = 1'-0"