

PROJECT CONTACTS

OWNER/APPLICANT: DHEERAJ KONERU

7002 93RD AVENUE SE MERCER ISLAND, WA 98040

ENGINEER/SURVEY: PACE ENGINEERS, INC.

11255 KIRKLAND WAY, SUITE 300 KIRKLAND, WA 98033 JOHN ANDERSON, PE BILL HAWKINS, PLS PHONE: (425) 827–2014 EMAIL: JOHNA@PACEENGRS.COM BILLH@PACEENGRS.COM

ARBORIST: TREE 133, LLC

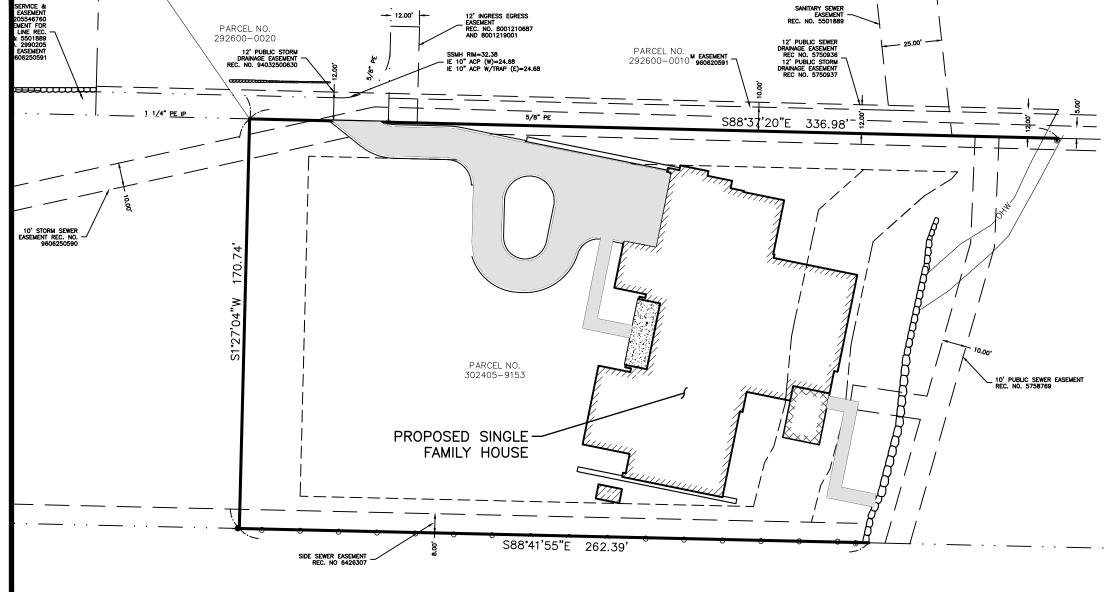
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12408 17TH AVENUE NE SEATTLE, WA. 98125 CRAIG BACHMANN, CERTIFIED ARBORIST PHONE: (206) 745–0473 ARBORIST@TREE133.COM

GEOTECHNICAL: GEOTECH CONSULTANTS, INC.

2401 10TH AVENUE E. SEATTLE, WA 98102 MARC MCGINNIS, PE PHONE: (425) 747-5618 EMAIL:

PROJE	CT INFORMATION	
SITE DATA		· · · · · ·
ADDRESS:	6610 EAST MERCER WAY	
PARCEL NUMBER:	3024059153	
PARCEL AREA:	50,094 SF	
LEGAL DESCRIPTION:	THE SOUTH HALF OF THAT PORTION OF GOVERNMENT LOT 1, SECTION 30, TOWNSHIP 24 NORTH, RANGE 5 EAST, LYING BETWEEN THE NORTH 498 FEET THEREOF AND SOUTH 471 FEET THEREOF AND EASTERLY OF A LINE PARALLEL WITH AND 1588.78 FEET EASTERLY OF (MEASURED AT RIGHT ANGLES TO) THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; EXCEPT THE SOUTH 9 FEET THEREOF.	
	TOGETHER WITH SHORELANDS OF THE SECOND CLASS IN FRONT AND ABUTTING UPON SAID PORTION OF SADI GOVERNMENT LOT 1.	PROJ
	TOGETHER WITH AN EASEMENT FOR UNOBSTRUCTED INGRESS AND EGRESS OVER THE EXISTING PRIVATE ROADWAY EXTENDING NORTHWESTERLY TO EAST MERCER WAY	DEVELOPMENT SU
	APPURTENANT TO THE PROPERTY HEREBY CONVEYED. SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON	PROPOSED NUMBER LO NUMBER OF DWELLING GROSS SITE AREA: NET SITE AREA:
ZONING SUMMARY		EXISTING IMPERVIOUS
EXISTING ZONING:	R-15	PROPOSED IMPERVIOUS
MINIMUM LOT SIZE:	15,000 SQ. FT.	
MAXIMUM HEIGHT:	30' ABOVE ABE	
MAX. LOT COVERAGE:	LOT 1 13,588 SQ. FT.	
BUILDING SETBACKS		
SIDE:	SUM 15' WITH 5' MIN.	
	REAR: 25	
	FRONT: 20	



PRO

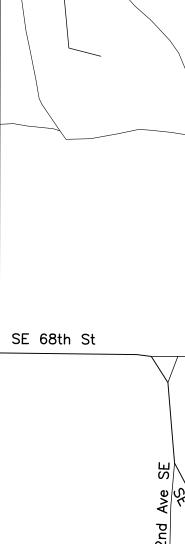
KONERU SINGLE FAMILY RESIDENC

6610 EAST MERCER WAY **MERCER ISLAND, WA. 98040**

SITE MAP SCALE: 1"=40'

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\Box	\Box

JECT INFO	ORMATIO	N	
SUMMARY			
LOTS:	1		
NG UNITS:	1		
	50,094	SQ. FT.	
	50,094	SQ. FT.	
S AREA:	9,073	SQ. FT.	
US AREA:	13,527	SQ. FT.	



E (PER	MIT NO. 2112-250)
SE 64t SE 64t Hillside	Ln SE 68th St LAKE WASHINGTON	RESPONSE TO COMMENTS DATED 7/21/22 REVISION
B2nd Ave SE B3rd Ave SE 93rd Ave SE 1.252	$\frac{1}{1}$	An Engineering Services Company An Engineering Services Company Arickland, WA 98033 p. 425.827.2014 <i>f</i> . 425.827.5043 p. 425.827.2014 <i>f</i> . 425.827.5043 mww. paceengrs.com
SHEET INDEX SHEET NO. CO.0 CO.1 C1.0 C2.0	SHEET TITLE COVER NOTES EXISTING CONDITIONS TESC PLAN	AND WASH WASH COF WASH COF WASH
PRE-SUBMITTAL CON	TESC DETAILS STORM & GRADING PLAN UTILITY PLAN UTILITY DETAILS UTILITY DETAILS WATER SERVICE PROFILE TREE RETENTION PLAN NFERENCE NUMBER: PRE21–023	DHEERAJ KONERU 7002 93RD AVENUE SE MERCER ISLAND, WA 98040
UTILITY PURVEY WATER: SEWER: ELECTRICITY: GAS: TELEPHONE: CABLE: SCHOOL DISTRICT: EARTHWORK SUI APPROX. CUT APPROX. FILL	CITY OF MERCER ISLAND CITY OF MERCER ISLAND PUGET SOUND ENERGY PUGET SOUND ENERGY CENTURY LINK CENTURY LINK/XFINITY MERCER ISLAND SCHOOL DISTRICT VMARY 464 CY 1251 CY	KONERU BUILDING PERMIT 6610 EAST MERCER WAY MERCER ISLAND, WA 98040 COVER SHEET
	ALL BEFORE OU DIG 811 NDERGROUND SERVICE (USA)	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. O IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. SCALE: DATE: AS SHOWN O5/11/22 DESIGNED BY: MA PACE PROJECT NO. 21436.00 SHEET CO.O

E (PERI	MIT NO. 2112-250)	8/19/22
SE 64th	St Private Rd St SITE	E TO COMMENTS DATED 7/21/22
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SHEET INDEX SHEET NO. CO.0 CO.1		THE AND FROM
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C4.3 L1.0	WATER SERVICE PROFILE TREE RETENTION PLAN	DHEERAJ KONERU 7002 93RD AVENUE SE MERCER ISLAND, WA 98040
UTILITY PURVEY	ORS	
WATER: SEWER: ELECTRICITY: GAS: TELEPHONE: CABLE: SCHOOL DISTRICT:	CITY OF MERCER ISLAND CITY OF MERCER ISLAND PUGET SOUND ENERGY PUGET SOUND ENERGY CENTURY LINK CENTURY LINK/XFINITY MERCER ISLAND SCHOOL DISTRICT	KONERU JILDING PERMIT 6610 EAST MERCER WAY MERCER ISLAND, WA 98040 MERCER ISLAND, WA 98040 COVER SHEET
EARTHWORK SUM		CO CO CO
APPROX. CUT APPROX. FILL NET	464 CY 1251 CY 787 CY FILL	BUIL MERC
	ALL BEFORE U DIG 811	VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. SCALE: DATE: AS SHOWN 05/11/22 DESIGNED BY: CHECKED BY: MA JA PACE PROJECT NO. 21436.00

DRAINAGE NOTES:

- 1. PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO CITY PRIOR TO THE PRECONSTRUCTION MEETING.
- 2. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT 7-02.3(1). THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
- 3. STEEL PIPE SHALL BE GALVANIZED AND HAVE ASPHALT TREATMENT #1 OR BETTER INSIDE AND OUTSIDE
- 4. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
- 5. ALL CATCH BASIN GRATES SHALL CONFORM TO WSDOT DRAWING NUMBERS B-35.20-00 AND B-35.40-00, WHICH INCLUDES THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".
- 6. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1 FOOT, AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"- 8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND -2" ROCK/10%-20% PASSING. INSTALLATION SHALL BE IN ACCORDANCE WITH WSDOT STANDARDS

PERMANENT SEEDING NOTES

- SEEDING SHOULD BE DONE IMMEDIATELY AFTER FINAL SHAPING IF COMPLETED DURING THE PERIODS OF APRIL 1 THROUGH JUNE 30 AND SEPTEMBER 1 THROUGH OCTOBER 1 (IF PLANTED BETWEEN JULY 1 AND AUGUST 31 IRRIGATION MAY BE REQUIRED). SITES WHICH CANNOT BE SEEDED DURING THIS TIME PERIOD SHOULD BE PROTECTED UNTIL THE NEXT SEEDING PERIOD WITH MULCH.
- 2. PERMANENT VEGETATION MAY BE IN THE FORM OF GRASS SEED MIXTURES, SOD, OR WETLANDS SEED/TUBER MIXTURES. SEED ESTABLISHMENT SHALL INCLUDE THE USE OF SUPPLEMENTAL MATERIALS, SUCH AS MULCH.
- 3. SITE PREPARATION INSTALL ALL REQUIRED SURFACE WATER CONTROL MEASURES.
- 4. SEEDBED PREPARATION MAY INCLUDE THE FOLLOWING:
- IF INFERTILE OR COARSE TEXTURED SUBSOIL WILL BE EXPOSED Α. DURING GRADING, STOCKPILE TOPSOIL AND RE-SPREAD IT OVER THE FINISHED SLOPE AND ROLL IT TO PROVIDE A FIRM SEEDBED.
- B. IF CONSTRUCTION FILLS HAVE LEFT SOIL EXPOSED WITH A LOOSE, ROUGH, OR IRREGULAR SURFACE, TRACK WALK UP SLOPE.
- C. IF CUTS OR CONSTRUCTION EQUIPMENT HAVE LEFT A TIGHTLY COMPACTED SURFACE, BREAK WITH CHISEL PLOW OR OTHER SUITABLE IMPLEMENT. PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPES (CONTOURED). THE SEEDBED SHOULD BE FIRM WITH A FAIRLY FINE SURFACE AFTER ROUGHENING.
- 5. FERTILIZATION IN GENERAL, 10-20-20 N-P-K FERTILIZER AT A RATE OF 90 LBS./ACRE. DEVELOPMENTS ADJACENT TO WATER BODIES AND WETLANDS MUST USE SLOW RELEASE LOW-PHOSPHORUS FERTILIZER (TYPICAL 3-1-2 N-P-K).
- 6. "HYDROSEEDING" APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED, AS LONG AS TACKIFIER IS INCLUDED.
- 7. SEEDING APPLY APPROPRIATE MIXTURE TO THE PREPARED SEEDBED AT A RATE OF 120 LBS./ACRE. COVER THE SEED WITH TOPSOIL OR MULCH NO DEEPER THAN 1/2 INCH.
- 8. INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RE-SEEDINGS IMMEDIATELY.
- A. IF VEGETATIVE COVER IS INADEQUATE TO PREVENT RILL EROSION, OVERSEED AND FERTILIZE IN ACCORDANCE WITH SOIL TEST.
- B. IF A STAND HAS LESS THAN 40% COVER, REEVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER. RE-ESTABLISH THE STAND FOLLOWING SEEDBED PREPARATION AND SEEDING RECOMMENDATIONS, OMITTING LIME AND FERTILIZER IN THE ABSENCE OF SOIL TEST RESULTS.

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MERCER ISLAND STANDARDS, AND THE CITY CONDITIONS OF APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE BE AT NO ADDITIONAL COST OR LIABILITY TO KING COUNTY.
- 2. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY, A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY INSPECTION UNIT. THE APPLICANT. AND THE APPLICANT'S CONSTRUCTION REPRESENTATIVE.
- 3. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE BE LIMITED AS PER CODE; NORMALLY, THIS IS 7 A.M. TO 10 P.M. WEEKDAYS AND 9 A.M. TO 10 P.M. ON WEEKENDS
- 4. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK WITHIN THE ROAD RIGHTS-OF-WAY. DATUM SHALL BE KCAS UNLESS OTHERWISE APPROVED BY THE CITY. GROUNDWATER SYSTEM CONSTRUCTION SHALL BE WITHIN A RIGHT-OF-WAY OR APPROPRIATE GROUNDWATER SYSTEMS MUST BE CONSTRUCTED IN ACCORDANCE WITH SECTION B1 3.02 OF THE APWA STANDARD SPECIFICATIONS.
- 5. ALL UTILITY TRENCHES SHALL BE BACK FILLED AND COMPACTED TO 95 PERCENT DENSITY.
- 6. OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY AND NOTED ON THESE APPROVED PLANS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23 - TRAFFIC CONTROL, SHALL APPLY.

EMBANKMENT NOTES

- 1. EMBANKMENTS SHALL BE CONSTRUCTED IN ALL ASPECTS TO THE PROVISIONS OF SECTION 2.03 OF THE WSDOT / APWA STANDARD SPECIFICATIONS.
- 2. COMPACTION OF THE TOP TWO FEET OF FILL SUBGRADE AND TOP SIX INCHES OF CUT SUBGRADE SHALL MEET A MINIMUM 95% MAXIMUM DENSITY IN ACCORDANCE WITH WSDOT / APWA STANDARD SPECIFICATION SECTION 2-03.3(14)C - METHOD B. SUBGRADE FILL BELOW THE TOP TWO FEET SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY.
- 3. IN CASES WHERE TESTS DO NOT MEET THE MINIMUM STANDARD. CORRECTIVE ACTION SHALL BE TAKEN SUCH AS ADDING WATER. AS DIRECTED BY THE DEVELOPERS GEOTECHNICAL ENGINEER. RETESTS SHALL SHOW PASSING DENSITIES PRIOR TO PLACING THE NEXT LIFT OF SUBGRADE FILL.
- 4. IMMEDIATELY UPON COMPLETING EMBANKMENT CONSTRUCTION. THE SIDESLOPES SHALL BE SEEDED WITH A KING COUNTY APPROVED PER MANUFACTURER. NO FERTILIZER SHALL BE USED. 5. SIDESLOPES DEVELOPER'S GEOTECHNICAL ENGINEER.

GRADING NOTES:

- 1. ALL CUT MATERIAL GENERATED DURING THE PROJECT THAT IS NOT ACCEPTABLE FOR USE AS COMPACTED FILL MATERIAL AT ANOTHER LOCATION ON-SITE MUST BE HAULED TO AN APPROVED LOCATION OFF-SITE.
- 2. ALL TEMPORARY OR PERMANENT SLOPES SHALL NOT EXCEED 2H:1V UNLESS APPROVED BY A GEOTECHNICAL ENGINEER.
- 3. FILL MATERIAL PLACED UNDER BUILDING FOUNDATIONS OR PAVEMENT SHALL BE CRUSHED BASE ROCK OR COMPACTED STRUCTURAL FILL IN ACCORDANCE TO WSDOT STANDARD SPECIFICATIONS.
- 4. ROCKERY AND/OR RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT REQUIRES A BUILDING PERMIT FROM THE CITY OF MERCER ISLAND.
- IT WILL BE THE PERMITEE'S RESPONSIBILITY TO SUCCESSFULLY CAP AND ABANDON ALL EXISTING UTILITIES WITHIN THE DEVELOPMENT IN ACCORDANCE TO THE GOVERNING UTILITY AGENCY.
- 7. ALL STRUCTURAL FILL AND BACKFILL AREAS MUST BE INSPECTED AND APPROVED AFTER STRIPPING AND PRIOR TO PLACING FILL. BY THE PROJECT GEOTECHNICAL ENGINEER OR DESIGNATED REPRESENTATIVE. PROPER FILL PLACEMENT AND COMPACTION SHALL BE VERIFIED WITH FIELD AND LABORATORY DENSITY TESTING BY THE GEOTECHNICAL ENGINEER OR A QUALIFIED TESTING LABORATORY. WRITTEN CERTIFICATION OF ALL APPROVALS SHALL BE GIVEN TO THE KING COUNTY SITE INSPECTOR.

ADDITIONAL NOTES

- 1. THIS PLAN MAY NOT SHOW THE LOCATION OF ALL EXISTING UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION.
- 2. THE CONTRACTOR SHALL EXPOSE ALL EXISTING PIPING THAT WILL BE CONNECTED TO WITH NEW PIPING. DEPTH. LOCATION. AND CONDITION SHALL BE RELAYED TO THE ENGINEER IF CONDITIONS VARY SIGNIFICANTLY FROM WHAT IS DETAILED OR ANTICIPATED.

STRUCTURAL NOTES

ROCKERIES ARE CONSIDERED TO BE A METHOD OF BANK STABILIZATION AND EROSION CONTROL. ROCKERIES SHALL NOT BE CONSTRUCTED TO SERVE AS RETAINING WALLS. ALL ROCKERIES SHALL BE DESIGNED. SEE DETAIL INCLUDED IN PLAN SET.

ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL

WHENEVER CONSTRUCTION IS IN PROGRESS. CONSTRUCTION NOISE SHALL

DRAINAGE EASEMENT, BUT NOT UNDERNEATH THE ROADWAY SECTION. ALL

AERATING, REPLACING MATERIAL, OR APPLYING MORE COMPACTIVE EFFORT

EROSION CONTROL SEED MIX AND JUTE MATTING PLACED AND ANCHORED SHALL NOT EXCEED 2:1 WITHOUT RECEIVING PRIOR APPROVAL FROM THE

EROSION AND SEDIMENT CONTROL NOTES:

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

SEEDING NOTES

TEMPORARY SEED MI CHEWINGS OR RED FESTUCA RUBRA VAF OR FESTUCA RUBRA ANNUAL OR PERENNI LOLIUM MULTIFLORUM PERENN RED TOP OR COLONI AGROSTIS ALBA OR WHITE DUTCH CLOVE TRIFOLIUM REPENS

LANDSCAPE SEED MIX CHEWINGS OR RED FESCUE FESTUCA RUBRA VAR. COMMUTATA OR FESTUCA RUBRA PERENNIAL RYE BLEND LOLIUM PERENNE

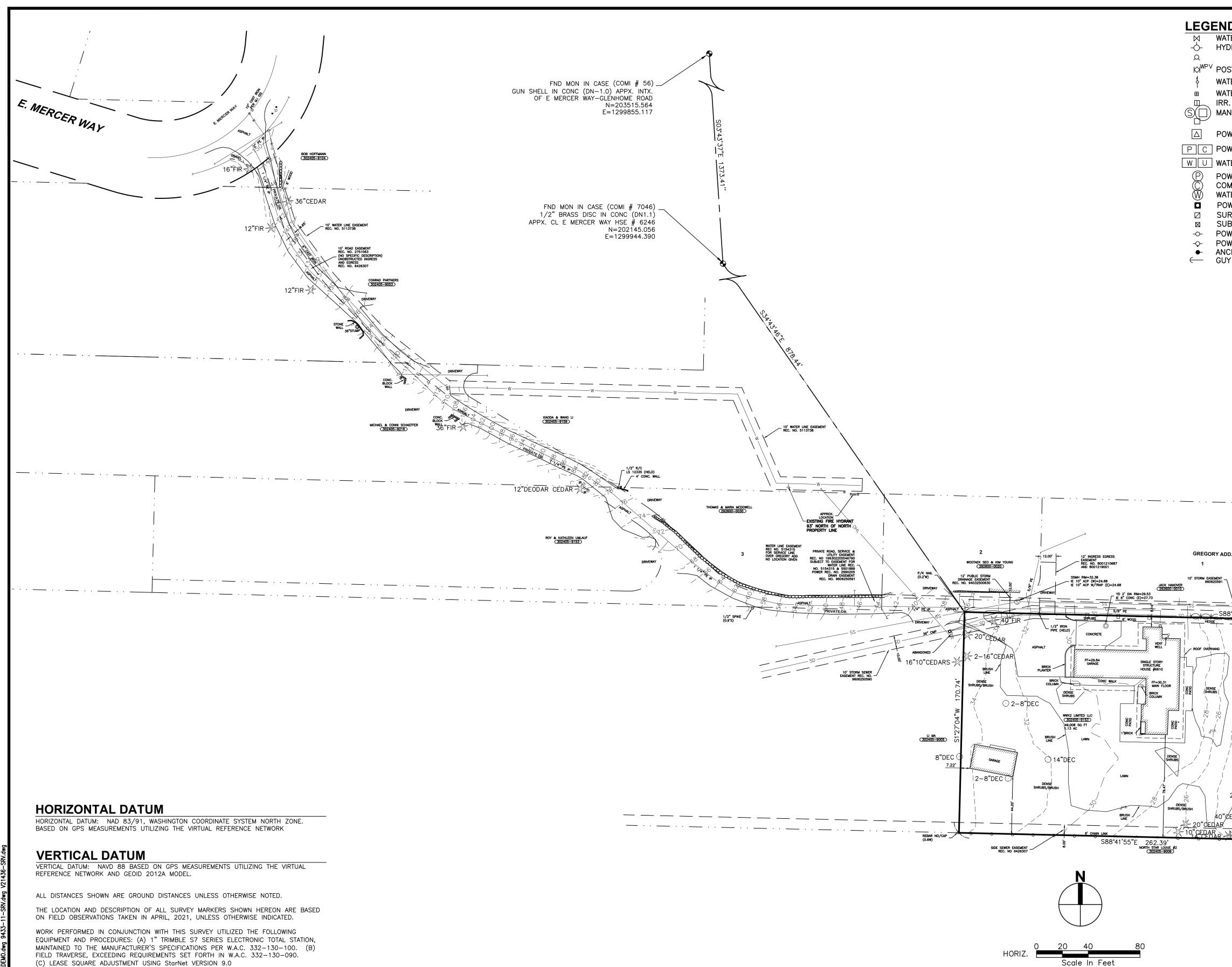
1IX	WEIGHT	PURITY	GERMINATION
FESCUE	40%	98%	90%
R. COMMUTATA			
NAL RYE	40%	98%	90%
M OR LOLIUM			
NAL BENTGRASS	10%	92%	85%
AGROSTIS TENUIS			
ER	10%	92%	85%
IX	WEIGHT	PURITY	GERMINATION
FESCUE	40%	98%	90%

40% 98%

90%

								8/19/22	DATE
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(C) LEASE SQUARE ADJUSTMENT USING StarNet VERSION 9.0 ÈXCEEDING REQUIREMENTS PER W.A.C. 332-130-080.

THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT PURPORT TO SHOW ALL EASEMENTS.

THIS TOPOGRAPHIC SURVEY DRAWING ACCURATELY PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND PACE ENGINEERS, INC. DOES NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THEIR ACCURACY OR COMPLETENESS. CONTRACTOR/ENGINEERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION. CALL FOR LOCATE: UTILITY LOCATION SERVICE: 811

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SS SD G		´ SEWER LINE DRAIN LINE		ing Servic		Civil Structural Plar www.paceengrs.com	
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OHL OHW	HIGH WA	D UTILITY LINES TER LINE BOUNDARY LINE			255 Ki kland, 425.82	v. pa	-
— o — o — o — o — x — x — x — x - x		NK FENCE		$\mathbf{\vee}$	111 P.	Civil www.	
	WOOD FE	ENCE VEGETATION/HEDGE	LINE	لعل			
				ANT IN O	AINDE WASHINS		
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···· <u> </u>				THE AN	26878		
				PESSII	Digitally Suned by	y John E. Ande	erson
DD. SANITARY SEWER	S		J	ohn E. Anders	 DN=C=US, E=johna@paceer O=PACE, CN=Jo Date: 2022 11.07 	nn E. Anderso	
REC. NO. 5501889				_			
12' PUBLIC SEWER DRAINAGE EASEMENT REC NO. 5750936 12' PUBLIC STORM DRAINAGE EASEMENT REC NO. 5750937				RU	E 8040		
				Ш Z	IE S A 98		
38°37'20"E336.98'- 환		-1	- · · _	KON	AVENUE SE AND, WA 98040		
40"FIR		R/C LS 31976 (0.9'S) NARY HIGH WATER ELEV.=19.6'			AV		
	PIT O (EDGE	E OF VEGETATION) LAKE LEVEL =18.75' A.C.O.E.)		SA	93RD R ISL/		
	WATER SI 04/05/2	URFACE ELEV.=18.2' 021 10:05 A.M.		Ü	7002 9 ERCER		
				DHE	7002 9. MERCER		
					2		
	LAKE WASHI	NGTON					
	10' PUBLIC SEWER EASE REC. NO. 5758769	EMENT LAKE BOTTOM ELEV=11.1' +/- \	\				
	/	Γ		_			
224"CEDAR	1	Š			9		
					98040	n Z C	
	DOCK E	'LEV.=20.1'		IG PERM Mercer Way	Ň I		
8"MILE W (0.35)	· · · · -	· · · ·		L O H		N C N	
			Į	ר ב ני		EXISTING CONDITIONS	
RECORD		'ION:	2		MERCE		
THE SOUTH HALF OF THAT TOWNSHIP 24 NORTH, RANG	PORTION OF GOVERNM	ENT LOT 1, SECTION 30,				EXI	
THEREOF AND SOUTH 471 WITH AND 1588.78 FEET EA	FEET THEREOF AND EA STERLY OF (MEASURED	STERLY OF A LINE PARAI D AT RIGHT ANGLES TO)	LLEL THE	Ш			
WEST LINE OF THE NORTHE 9 FEET THEREOF.							
TOGETHER WITH SHORELAND UPON SAID PORTION OF SA					Y SCALE		
TOGETHER WITH AN EASEME		D INGRESS AND EGRESS	OVER	AR IS ONE INCH 0	ON ORIGINAL	"DRAWIN	IG.

TOGETHER WITH AN EASEMENT FOR UNOBSTRUCTED INGRESS AND EGRESS OVER THE EXISTING PRIVATE ROADWAY EXTENDING NORTHWESTERLY TO EAST MERCER WAY APPURTENANT TO THE PROPERTY HEREBY CONVEYED.

IF NOT ONE INCH ON THIS SHEET,

ADJUST SCALES ACCORDINGLY.

DESIGNED BY: CHECKED BY:

PACE PROJECT NO. 21436.00

DATE:

05/11/22

JA

SCALE:

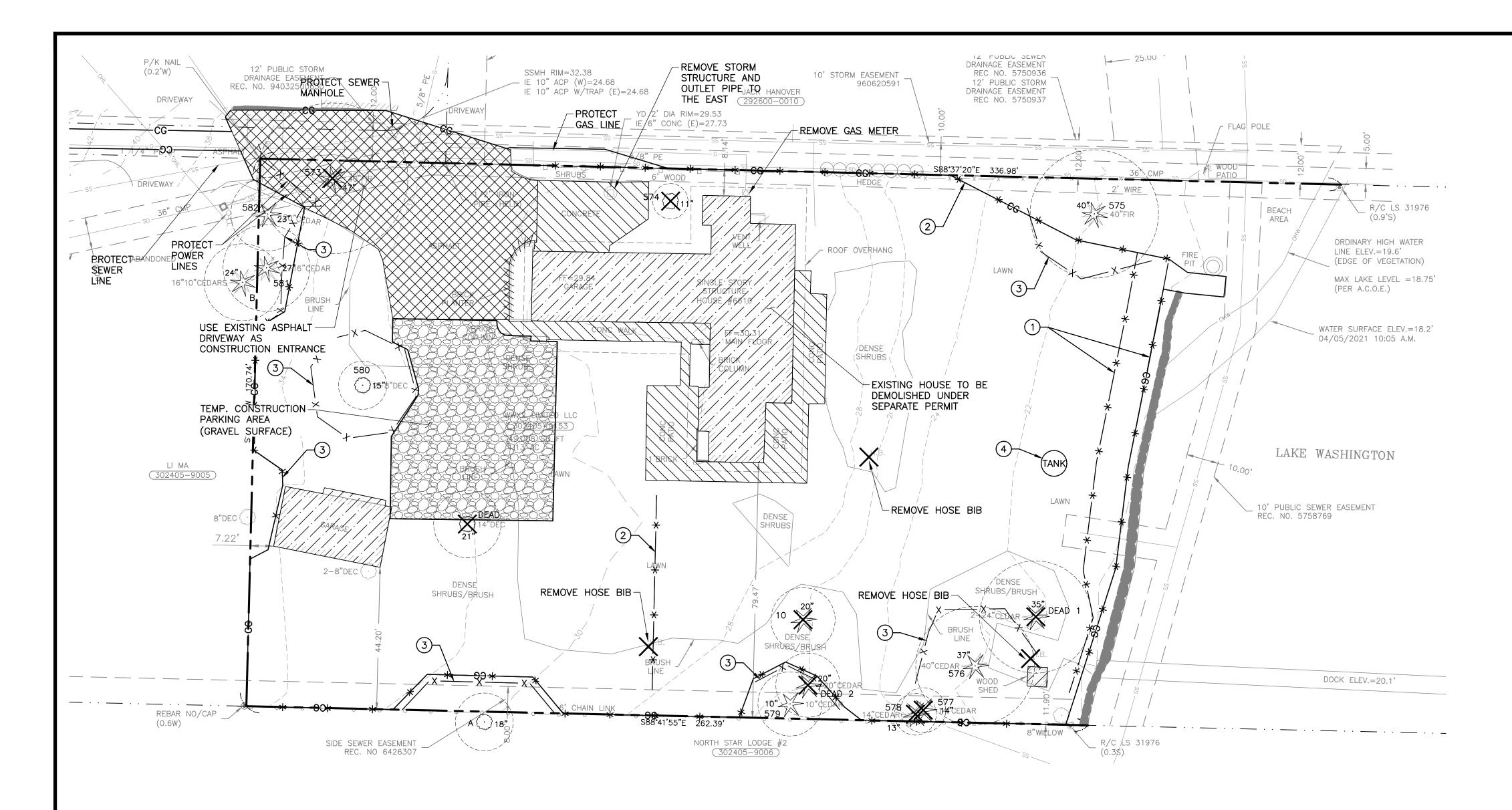
MA

AS SHOWN

SHEET C1.0

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON

CALL BEFORE YOU DIG 811 UNDERGROUND SERVICE (USA)



LEGEND:

INLET PROTECTION	
SILT FENCE	**
CLEARING AND GRADING LIMITS	CG
TREE PROTECTION FENCE PER CITY OF MERCER ISLAND DETAIL ON SEE SHEET C2.1	x x
INTERCEPTOR SWALE	·
DEMOLISH FEATURE	
STRUCTURE TO BE DEMOLISHED	
PAVEMENT TO BE REMOVED	
CONCRETE TO BE REMOVED	
OBJECT TO BE REMOVED	\times
ROCK CHECK DAM PER DOE DETAIL ON SHEET C2.1	
TEMPORARY SEDIMENT TRAP	

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PROJECT CESCL: PHONE: _____

GENERAL NOTES:

- OR TO ORDERING MATERIALS AND CONSTRUCTION, THE CONTRACTOR ALL REVIEW THE PROJECT PLANS AND SITE CONDITIONS AND IDENTIFY ANY CONFLICTS EXIST. THE CONTRACTOR SHALL CALL "ONE-CALL" IDENTIFY AND ABOVE OR BELOW GRADE FEATURES ARE IN CONFLICT THE PLANS. IF CONFLICTS EXIST CONTACT PACE ENGINEERS (425) -2014 WITH THE HORIZONTAL AND VERTICAL LOCATION OF THE FLICTS.
- WORK SHALL BE PERFORMED PER THE MOST CURRENT VERSION OF CITY OF MERCER ISLAND STANDARDS AND SPECIFICATIONS AS OVIDED IN THIS PLAN SET.
- INPSECTIONS SHALL BE CONDUCTED BY A CERTIFIED EROSION AND IMENT CONTROL LEAD (CESCL) WHO SHALL BE PRESENT ON-SITE OR ON-CALL AT ALL TIMES.

EROSION CONTROL NOTES:

- 1 INSTALL DOUBLE LAYER OF SILT FENCE (10-FT APART UNLESS OTHERWISE SHOWN) AT CLEARING LIMITS PER DETAIL SHEET C2.1.
- 2 INSTALL SINGLE LAYER OF SILT FENCE PER DETAIL SHEET C2.1.
- (3) INSTALL TREE PROTECTION FENCING PER DETAIL ON SHEET C2.1.
- (4) BAKER TANK RAIN FOR RENT EZ KLEAN 2400 GALLON TANK OR SIMILAR TANK/CAPACITY AT THE DISCRETION OF THE CONTRACTOR.

- PLAN.
- INSPECTOR.
- 7.
- BUILDING SITE 8. INSTALL BUILDING FOUNDATION.
- INSPECTOR.

CONSTRUCTION SEQUENCE

INSTALL FILTER FABRIC FENCES WHERE SHOWN ON THE PLAN. 2. INSTALL PROTECTION FENCING AROUND TREES WHERE SHOWN ON THE 3. COORDINATE AND ATTEND PRE-CONSTRUCTION MEETING WITH CITY

4. INSTALL ROCK FOR CONSTRUCTION ACCESS. 5. DEMOLISH EXISTING HOUSE, GARAGE AND SHED WITHIN THE PROPERTY. 6. ROUGH GRADE SITE TO ESTABLISH BUILDING PAD AND DRIVEWAY. INSTALL SEWER, STORM, WATER SERVICE LINES. FROM MAIN TO

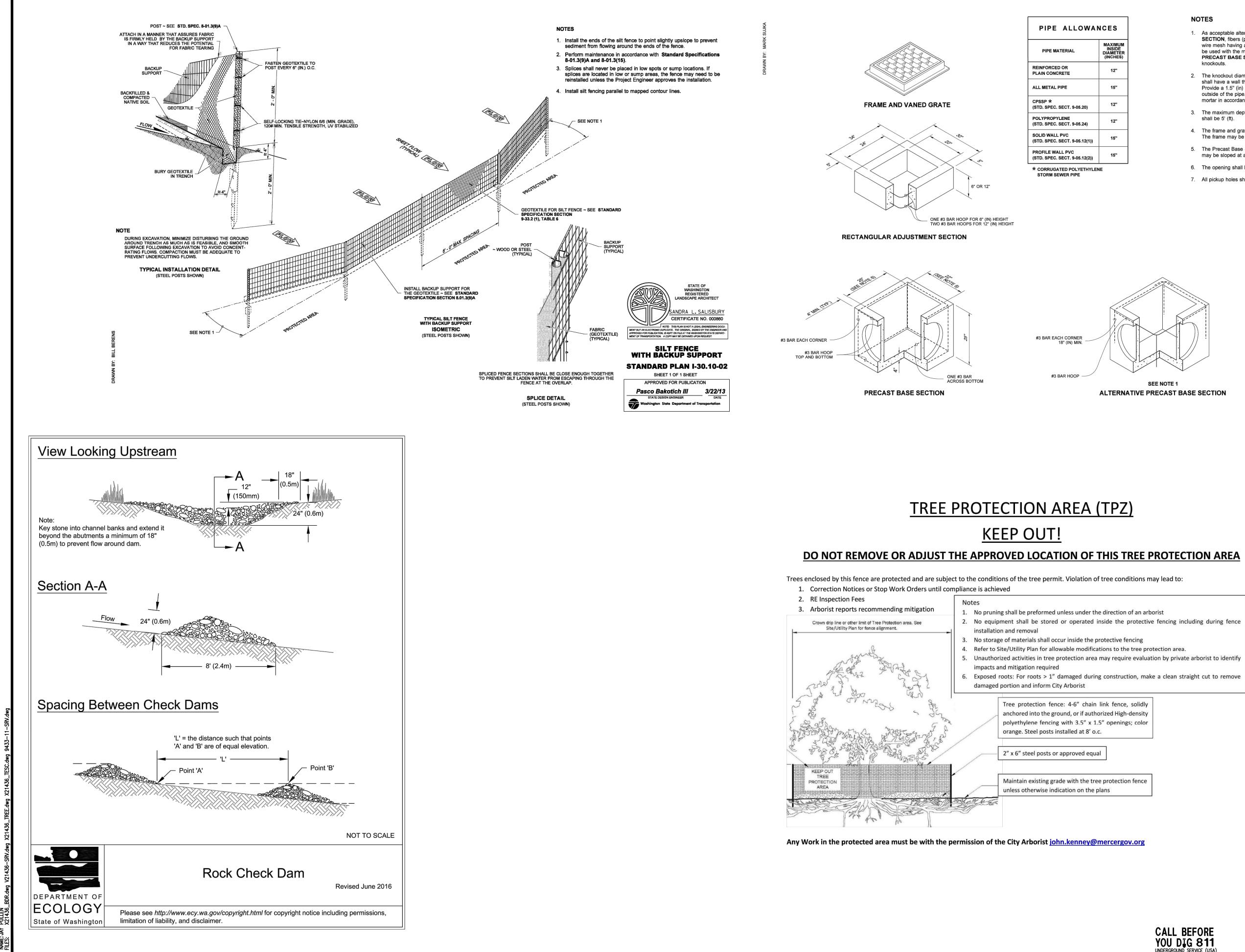
9. FINISH GRADE LOT AND INSTALL LANDSCAPE PLANTING.

UNDERGROUND SERVICE (USA)

10. INSTALL FINAL PAVEMENT LIFT FOR DRIVEWAY. 11. REMOVE TESC MEASURES UPON APPROVAL OF CITY OF MERCER ISLAND

CALL BEFORE HORIZ Scale In Feet YOU DIG 811

					8/19/23	DATE
					RESPONSE TO COMMENTS DATED 7/21/22	SYM REVISION
	PACE	An Engineering Services Company 11255 Kirkland Way, Suite 300	Kirkland, WA 98033 <i>p</i> . 425.827.2014 <i>f</i> . 425.827.5043		UNII Structural Planning Survey www. paceenars.com	
John E	JOL STAT	SON ^{E=jo} O=P	RED IN	by Johr engrs.ci	o E. And om, Anderso	erson on
	DHEERAJ KONERU	7002 93RD AVENUE SE	MFRCFR ISI AND WA 98040			
KONERU	BUILDING PERMIT 6610 EAST MERCER WAY	MERCER ISLAND, WA 98040		TESC PLAN		
	BU BU					



NAME: P:\P21\21436 KONERU F E TIME: 11/7/2022 9:10:48 AM R NAME: JAY PULLEN F FILES: X21436_BDR.4wg V2

DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA

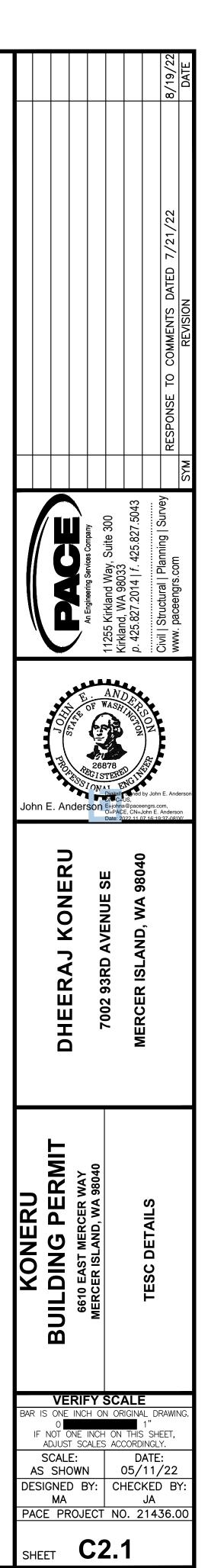
- 1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts
- 2. The knockout diameter shall not be greater than 18" (in) . Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- 3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- 4. The frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
- 5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- 6. The opening shall be measured at the top of the precast base section.
- 7. All pickup holes shall be grouted full after the inlet has been placed.

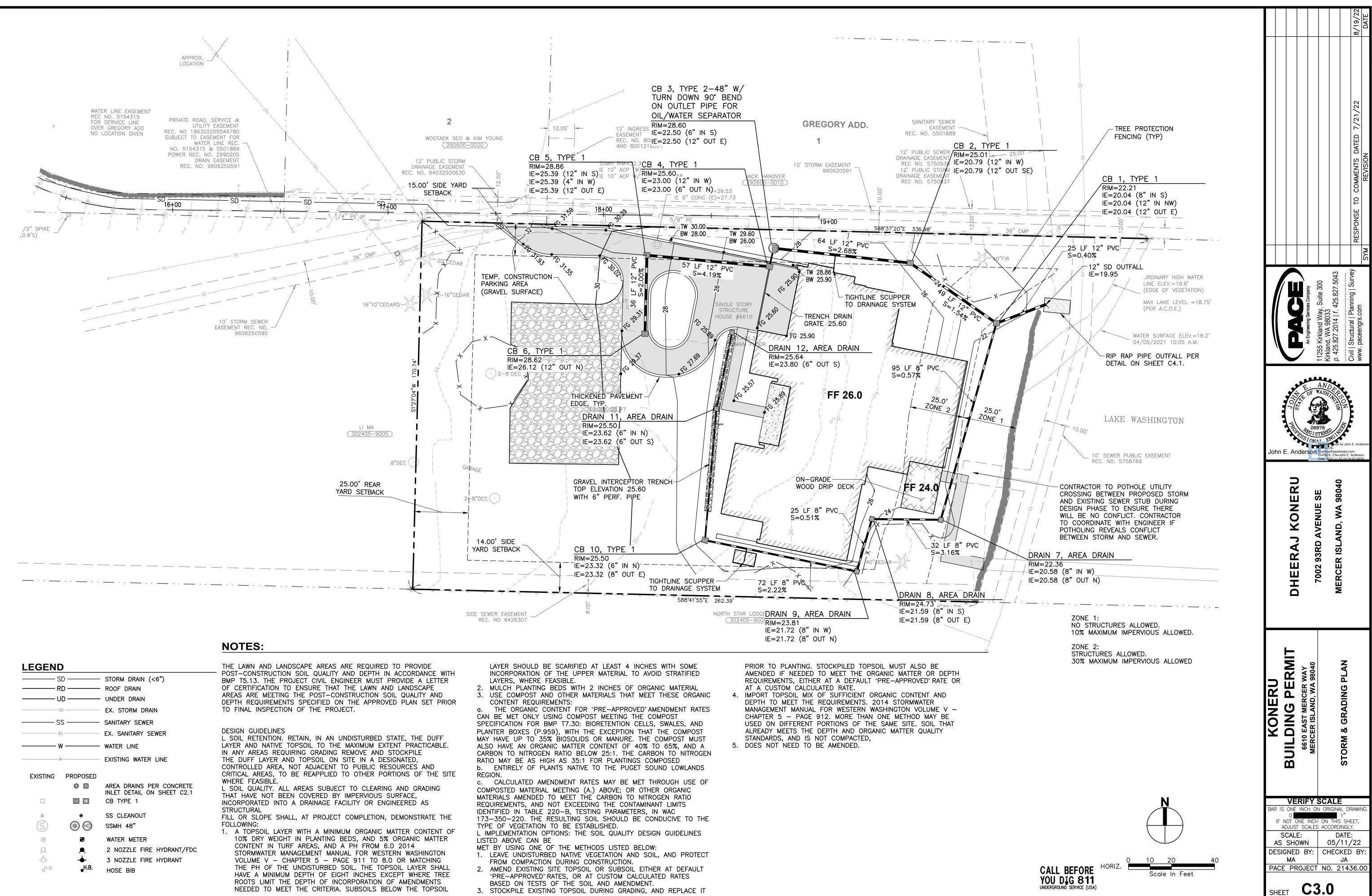


CONCRETE INLET

STANDARD PLAN B-25.60-02 SHEET 1 OF 1 SHEET

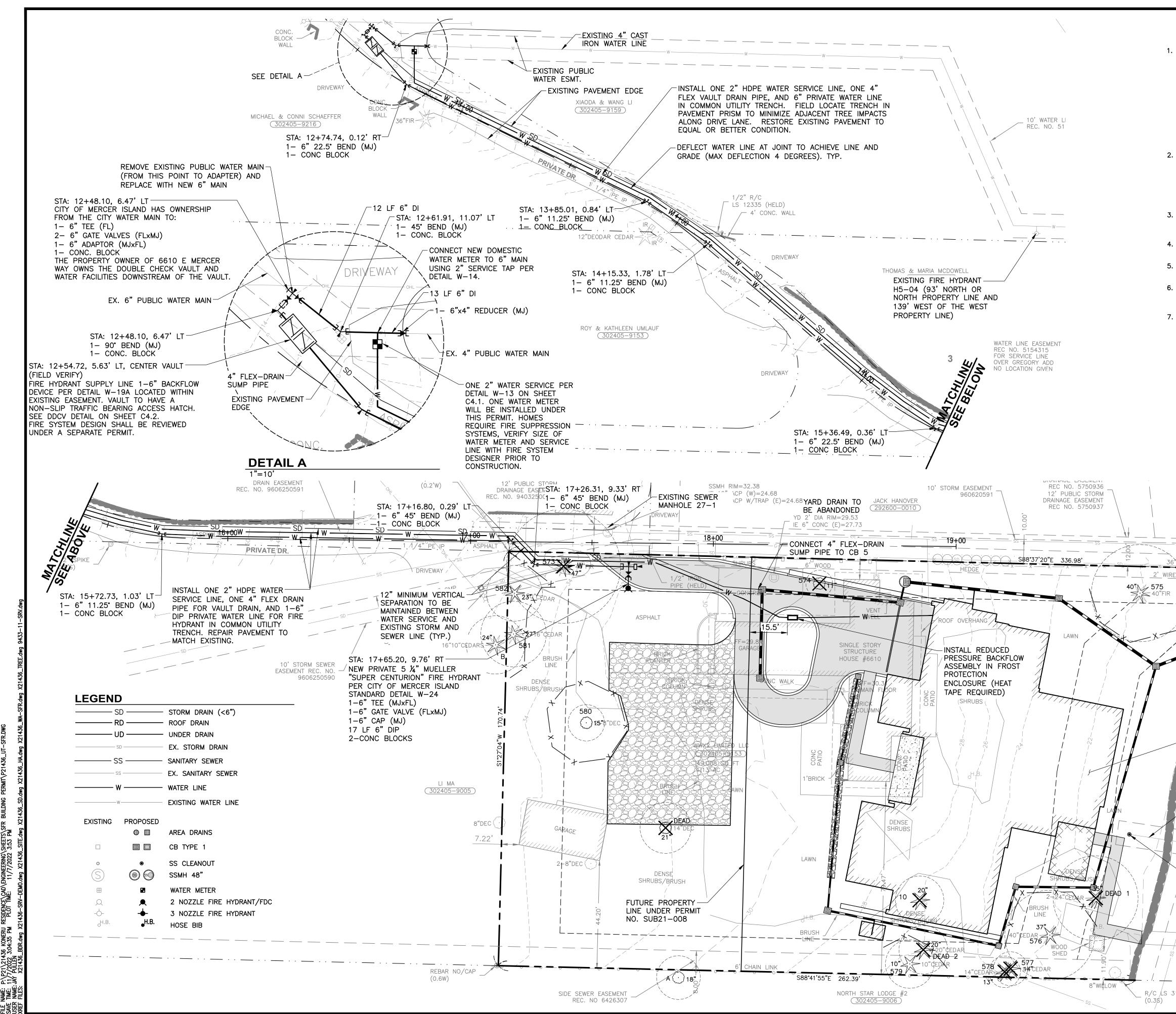






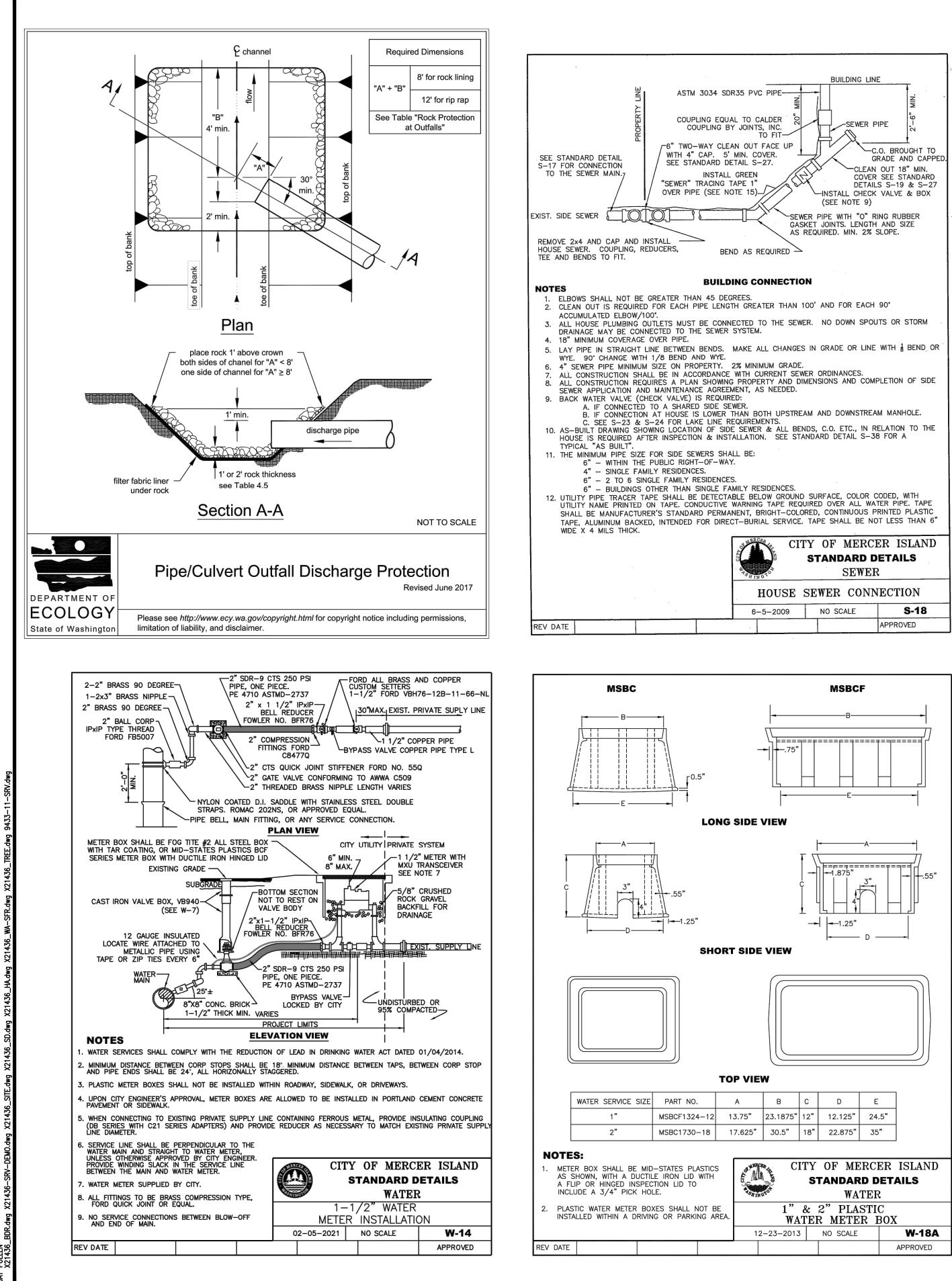
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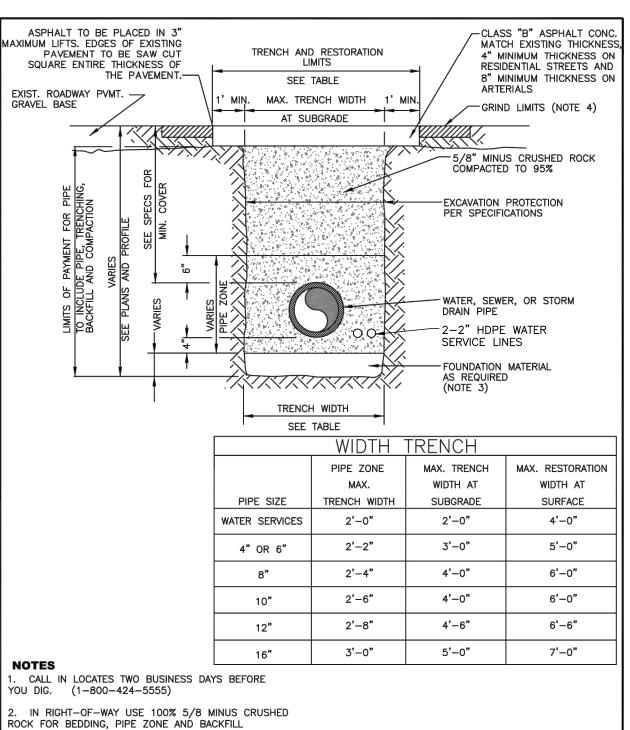
NAME: P:\P21\21436 KONERU F E TIME: 11/7/2022 3:04:35 PM R NAME: JAY PULLEN F FLLES: X21436_BDR.dwg X2

					19/22	DATE
	UTILITY MAINTENANCE: EACH PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE SANITARY SEWER, STORM WATER STUB, RAIN				8/	
	GARDEN, PERMEABLE PAVEMENT, OR ANY INFILTRATION FACILITIES (KNOWN AS LOW IMPACT DEVELOPMENT) FROM THE POINT OF USE ON THEIR OWN PROPERTY TO THE POINT OF CONNECTION IN THE CITY SANITARY SEWER MAIN OR STORM WATER MAIN. ANY PORTION OF A SANITARY SEWER,					
	SURFACE WATER STUB, RAIN GARDEN, PERMEABLE PAVEMENT, OR ANY INFILTRATION FACILITIES, WHICH JOINTLY SERVES MORE THAN ONE PROPERTY; SHALL BE JOINTLY MAINTAINED AND REPAIRED BY THE					
	PROPERTY OWNERS SHARING SUCH STUB. THE JOINT USE AND MAINTENANCE SHALL "RUN WITH THE LAND" AND WILL BE BINDING ON ALL PROPERTY OWNERS WITHIN THIS SUBDIVISION, INCLUDING THEIR HEIRS, SUCCESSORS AND ASSIGNS.				/21/22	
	ALL BUILDINGS ARE SUBJECT TO MEETING THE CURRENT FIRE CODE REQUIREMENTS AT THE TIME OF PERMIT SUBMITTAL. ACCESS SHALL BE PROVIDED AS OUTLINED IN THE INTERNATIONAL FIRE CODE APPENDIX D				DATED 7	
	AS ADOPTED AND/OR AMENDED AND MICC 19.09.40. FIRE PLAN REVIEWS WILL BE CONDUCTED AT THE TIME OF BUILDING PERMIT SUBMITTAL AND MAY REQUIRE ADDITIONAL FIRE PROTECTION SYSTEMS				COMMENTS E	REVISION
	AND /OR FIRE PREVENTION MEASURES FOR PERMIT APPROVAL. ALL NEW CONSTRUCTION AND ALTERATIONS OVER 50% VALUATION ARE REQUIRED TO INSTALL A MINIMUM OF NFPA 13D FIRE SPRINKLER				TO COM	R
	SYSTEM. DECREASED FIRE FLOW, ACCESS, GRADE, OR BUILDING SIZE MAY REQUIRE THE INSTALLATION OF A NFPA 13R OR 13 SPRINKLER SYSTEM.				ESPONSE 1	
	REMOVE EXISTING WATER METER LOCATED AT 6466 E. MERCER WAY PER CITY OF MERCER ISLAND REQUIREMENTS.				RESP	
	ALL WATER INFRASTRUCTURE TO BE INSTALLED PER CITY OF MERCER ISLAND STANDARD WATER DETAILS. APPLICABLE DETAILS INCLUDED ON SHEET C4.1.			<u>۳</u>		SYM
	TV INSPECTION OF EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED PRIOR TO ANY WORK RELATED TO THE SIDE SEWER. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS		mpany	11255 Kirkland Way, Suite 300 Kirkland, WA 98033 <i>p</i> . 425.827.2014 <i>f</i> . 425.827.5043	Structural Planning Survey naceenars.com	
	DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED.			Way, Sui 8033 4 <i>f</i> . 425.	Plannir s com	0.001
			An Engineerin	11255 Kirkland Way, Kirkland, WA 98033 <i>p</i> . 425.827.2014 f. [∠]	Structural Plan	المرحود الإر
		<u> </u>		11255 Kirklan <i>p</i> . 425.	Civil S	
			E	ANDR		
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		John E. A	nderson	Distriant somed	➡ John E. And engrs.com, John E. Anders 17 16:19:37-08	son
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<u>E</u>	$= \frac{1}{ BEACH } = \frac{1}{ BEACH } = \frac{1}{ R/C } = \frac{1}{ R/$			AVENUE AND WA	ĥ	
	ORDINARY HIGH WATER	-		<u> </u>		
/	FIRE PIT PIT PIT PIT PIT PIT PIT PIT			/ UUZ 93KD MFRCFR ISI		
	OWW					
	WATER SURFACE ELEV.=18.2' 04/05/2021 10:05 A.M.					
	POOL/SPA WASTE WATER TO BE DISCHARGE TO SANITARY SEWER	<u> </u>				
	/ / SYSTEM		۸۲ 040			
	LAKE WASHINGTON	<u>ru</u> Permi	6610 EAST MERCER WAY MERCER ISLAND, WA 98040		AN	
1	SEWER CONNECTION		T MER(SLAND,		UTILITY PLAN	
	SEWER STUB PER DETAIL S-18 ON ^{IENT} SHEET C4.1. (VERIFY LOCATION AND CONDITION	KONE	10 EAS		UTILI	
	ÒF EXISTING SEWER STUB PRIOR TO CONSTRUCTION); SEE NOTE 7 FOR ADDITIONAL INFORMATION	BUII				
/	INSTALL BACKFLOW PREVENTION VALVE PER STANDARD DETAIL S-23, S-25 AND S-26CC	BAR IS ON			L DRAWI	NG.
/		0 IF NOT	ONE INCH	I ON THIS S ACCORD	1" S SHEET,	
/	DOCK ELEV.=20.1'	AS SH DESIGNE MA	OWN D BY:	05/ CHEC	11/22 KED B JA	
<i>1</i> 3 1	Indication Scale In Feet Scale In Feet	MA PACE P	ROJECT	NO. 2		00
1	UNDERGROUND SERVICE (USA)	SHEET	C2	1 0		



P:\P21\21436 K0 11/7/2022 3:04:3 :JAY PULLEN v^1436 RDR / NAME: TIME: NAME: FILES:

OF MERCER	CITY	OF	MERCEI	R ISLAND
	S	TAND	ARD DE	TAILS
AND ROT			SEWER	
HOUS	SE SE	WER	CONNE	CTION
6-5-200	9	NO SC	ALE	S-18
			A	PPROVED

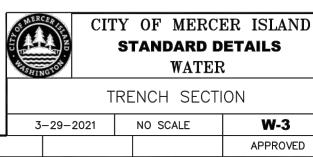


4. GRIND AND OVERLAY LIMITS SHALL EXTEND A MINIMUM OF 10' PAST THE END OF TRENCH AREAS. 5. SEAL ALL FINAL PATCHING AND PAVING SEAMS WITH JQUID ASPHALT. SQUEEGEE OR MOP THE SEALER. COVER WITH DRY SAND.

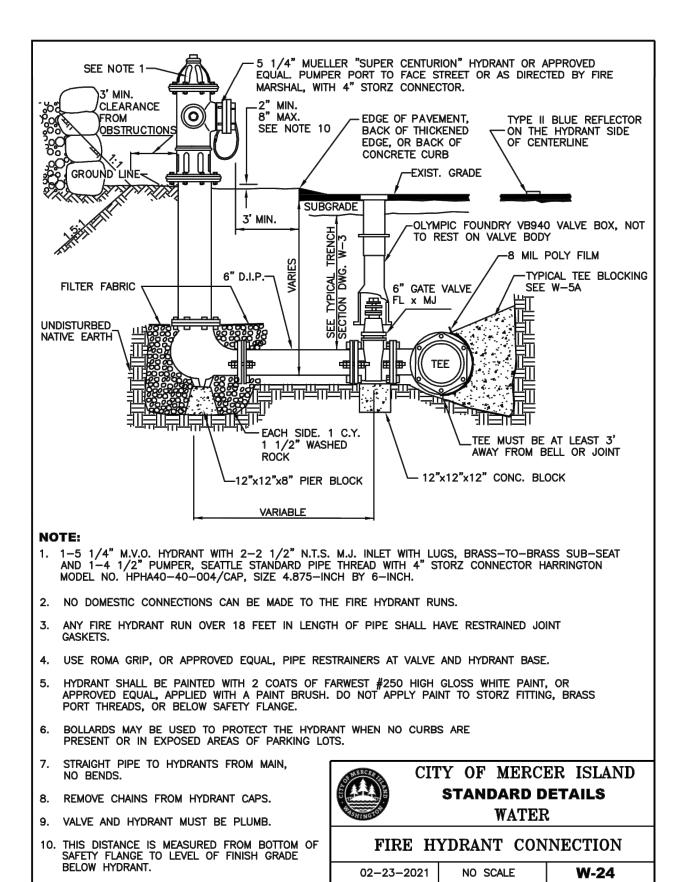
REV DATE

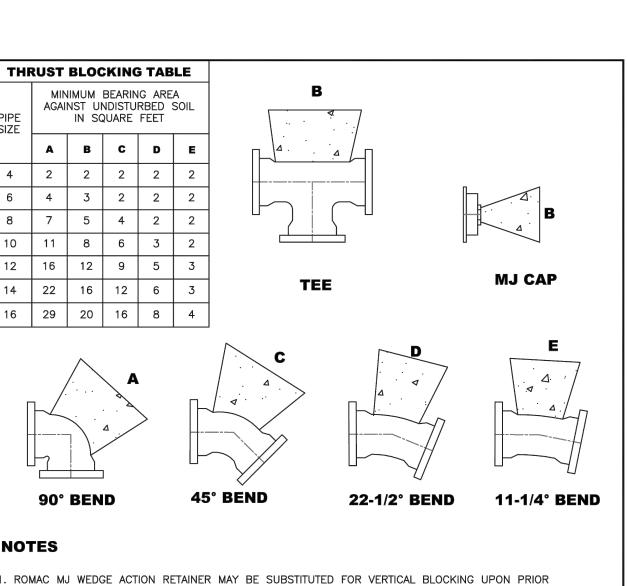
. FOUNDATION MATERIAL SHALL BE 1 1/4" MINUS

CRUSHED ROCK OR OTHER AGGREGATE AS APPROVED BY CITY ENGINEER.



APPROVED





PIPE

SIZE

8

NOTES

CONCRETE.

SHEETING PRIOR TO POURING CONCRETE.

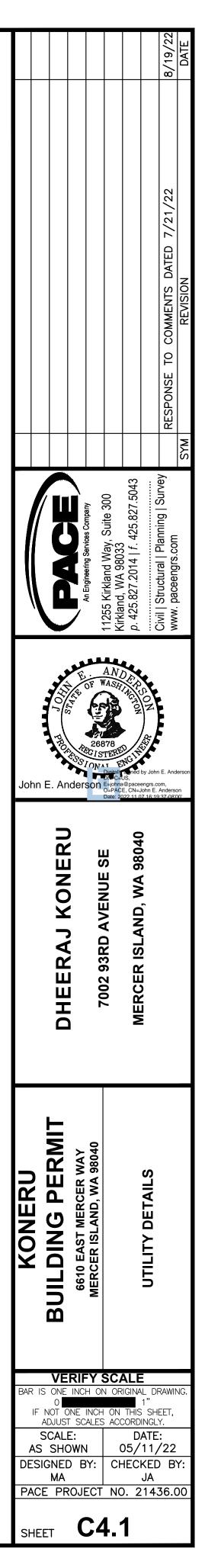
APPROVAL OF THE CITY ENGINEER. 2. CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH. 5. THRUST BLOCKS SHALL BE CAST-IN-PLACE AND BE CONSTRUCTED WITH CLASS 3000 OR COMMERCIAL

BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF BOLTS AND JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT. WRAP FITTINGS WITH 8 MIL THICK POLYETHYLENE

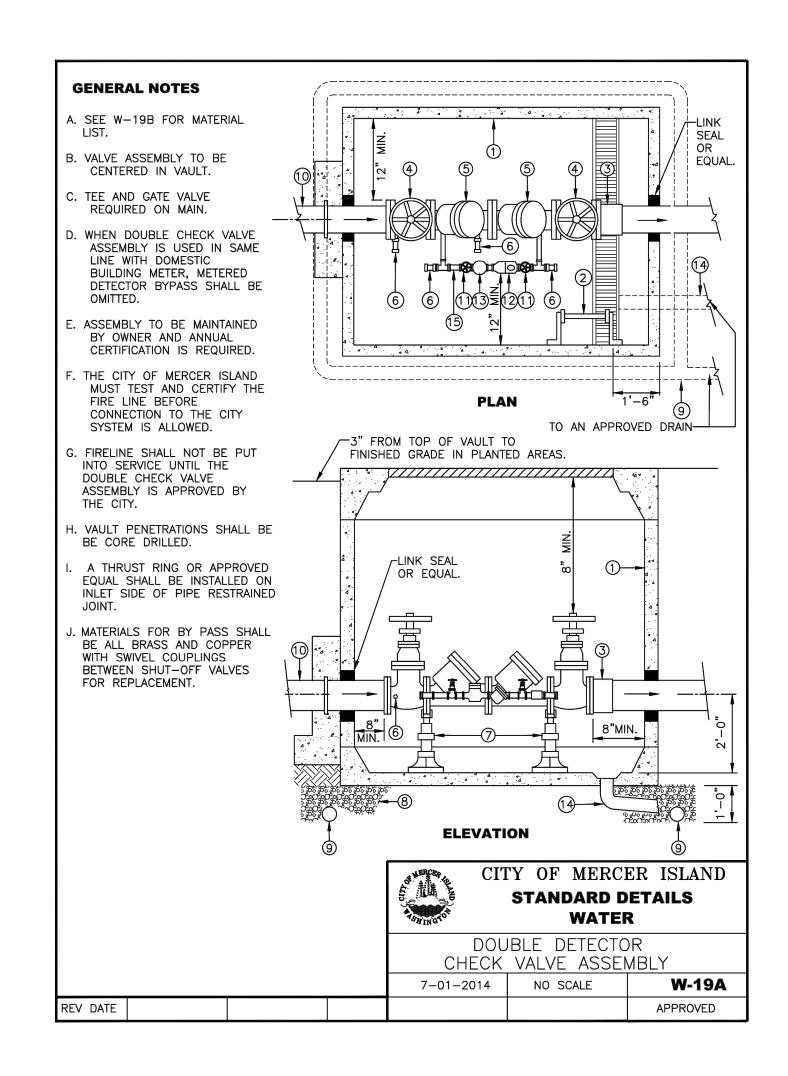
BEARING AREA MUST BE ADJUSTED FOR HIGHER INTERNAL PRESSURES AND LOWER SOIL BEARING VALUES.

3. THE CONTRACTOR SHALL INSTALL BLOCK WHICH IS ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY STAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.

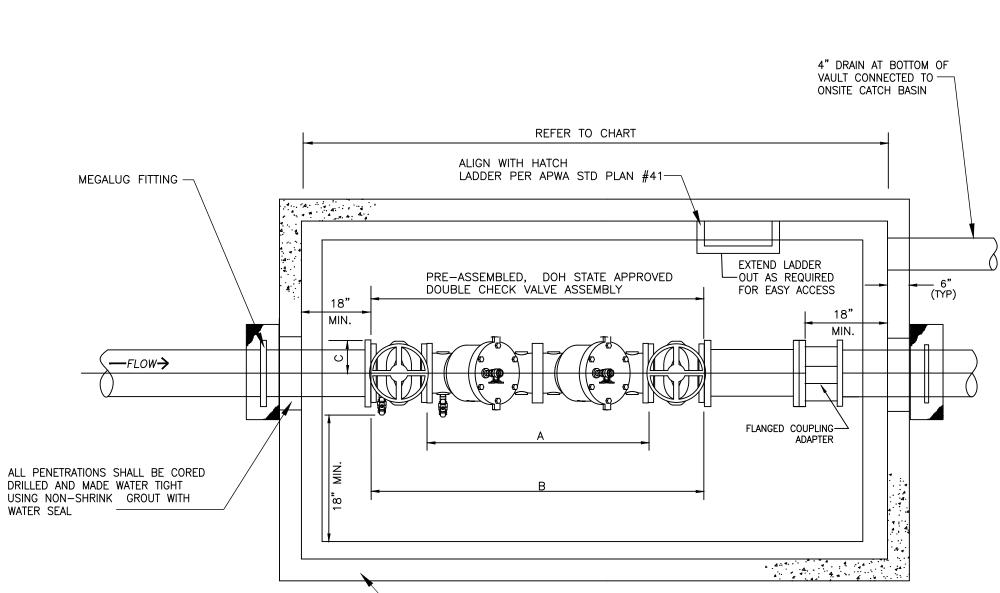
	2		MERCE DARD D WATER	
HOR	IZONTA	L CON	ICRETE	BLOCKING
3–30	-2021	NO S	CALE	W-5A
	·			







	QUA									
KEY NO.	4"	6"&8"	MATERIAL							
1	1	-	PRE CAST CONCRETE VAULT AS APPROVED BY THE CITY ENGINEER							
1	_	1	PRE CAST CONCRETE VAULT AS APPROVED BY THE CITY ENGINEER							
1	1	-	PRE CAST CONCRETE VAULT AS APPROVED BY THE CITY ENGINEER							
1	_	1	PRE CAST CONCRETE VAULT AS APPROVED BY THE CITY ENGINEER							
1	-	1	PRE CAST CONCRETE VAULT AS APPROVED BY THE CITY ENGINEER							
1	1	1	LW PRODUCTS ALUMINUM, SINGLE DOOR, H-20 OR EQUAL.							
2	1	1	FABRICATED BOLT-ON LADDER. USE THREE SETS OF MOUNTING BRACKETS ATTACHED TO VAULT WALL WITH $5/8$ " DIAMETER CORROSION RESISTANT ANCHOR BOLTS (HILTI KWIK BOLT, PHILIPS RED HEAD OR APPROVED EQUAL). ALL STEEL FOR LADDER SHALL BE A-36, OSHA APPROVED HOT DIPPED GALVANIZED AFTER FABRICATION. SEE DRAWING NO. W-27C.							
3	1	_	4" DIAMETER FLEXIBLE FLANGED COUPLING ADAPTER ROCKWELL TYPE 912							
3	_	1	8" OR 6" DIAMETER FLEXIBLE FLANGED COUPLING ADAPTER ROCKWELL TYPE 912							
4	1	-	4" O.S. & Y. GATE VALVE U.L. APPROVED							
4	_	1	8" OR 6" O.S. & Y. GATE VALVE U.L. APPROVED							
5	1	-	4" D.S.H.S. APPROVED DOUBLE CHECK VALVE ASSEMBLY, INCLUDING 2 O.S. & Y. GATE VALVES, TEST COCK, 3/4" DOUBLE CHECK VALVE, SINGLE OR MULTI JET METER (TO READ IN CUBIC FEET) AND 3/4" BRASS OR COPPER BYPASS WITH IN LINE VALVE.							
5	-	1	8" OR 6" D.S.H.S. APPROVED DOUBLE CHECK VALVE ASSEMBLY, INCLUDING 2 O.S. & Y. GATE VALVES, TEST COCK, 3/4" DOUBLE CHECK VALVE, SINGLE OR MULTI JET METER (TO READ IN CUBIC FEET) AND 3/4" BRASS OR COPPER BYPASS WITH IN LINE VALVES.							
6	1	1	3/4" DIAMETER TEST COCKS							
7	2	2	ADJUSTABLE PIPE SADDLE SUPPORT (ITT GRINNEL FIG 264 OR APPROVED EQUAL). ATTACH TO VAULT FLOOR WITH FOUR $1/2$ " DIAMETER CORROSION RESISTANT ANCHOR BOLTS (HILT KIWI BOLT, PHILIPS RED HEAD OR APPROVED EQUAL). SEE DRAWING N W-27C.							
8	_	_	PEA GRAVEL BACKFILL FOR PIPE BEDDING UNDER PRECAST CONCRETE UTILITY VAULT.							
9	-	_	4" DIAMETER UNDERDRAIN, CONNECT TO DRAINAGE SYSTEM, SCHEDULE 200 PERFORATED PVC WITH GALVANIZED SCREEN EACH END.							
10	-	-	4" DIAMETER CL. 52 DUCTILE IRON PIPE							
10	-	-	6" OR 8" DIAMETER CL. 52 DUCTILE IRON PIPE							
11	1	1	3/4" GATE VALVE U.L. LISTED							
12	1	1	5/8" x 3/4" ACCULINK MULTINET MASTER METER WITH SENSUS COMPATABLE MXU READ							
13	1	1	3/4" DOUBLE CHECK VALVE							
14	1	1	SOLID PVC PIPE SUMP DRAIN. SIZE PER MANUFACTURER'S RECOMMENDATION. CONNECT TO DRAINAGE STRUCTURE AS APPROVED							
15	1	1	3/4" "Y" STRAINER							
NOTES 1. ALL V WITH 2. SIZE DEM/	AULT, DAMPP DETER AND.	L BASED AN ROOFING. MINED ON	D TOPS TO BE COATED BASIS OF ACTUAL FIRE EXAMPLE TO THE CITY OF MERCER ISLAND STANDARD DETAILS WATER MATERIAL LIST							
		NOTES.	DOUBLE DETECTOR CHECK 7-01-2014 NO Scale W-19B							
			APPROVED							



└── 712−LA VAULT

- 1. ACCESSES BY L.W. HATCH: HHD (H-30 RATING)
- 3. DCVA MUST BE TESTED BY CITY OF MERCER ISLAND.

VAULT SIZES										
	ROXIMATE		MINIMUM INSIDE VAULT DIMENSIONS (EXCLUDES SIAMESE CONNECTION)							
А	В	С	LENGTH	WIDTH	HEIGHT					
2'-9"	4'-3"	0'-6"	10'-0"	5'-0"	6'-6''					
3'–9"	5'-6"	0'-8"	11'-0"	6'-0"	6'-6''					
4'-5"	6'-4"	0'-9"	12'-0"	6'-0"	6'-6''					
6'-0"	8'-6"	0'-11"	14'-6"	7'-0"	6'-6''					

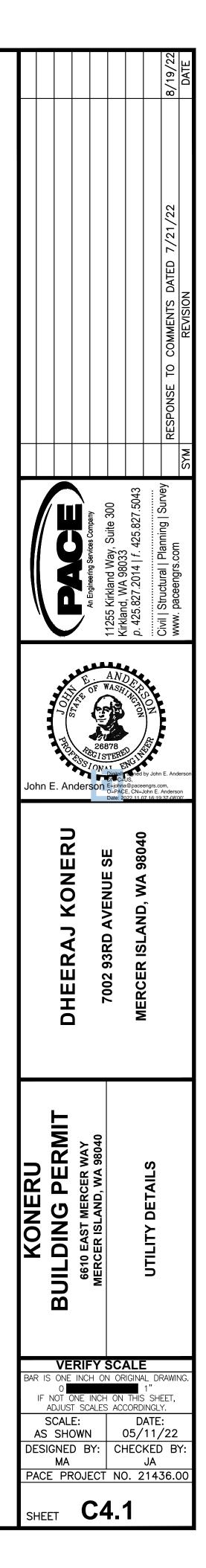
DCVA SIZE	DCVA SIZE DIMENSIONS					VAULT INECTION)
	A	В	С	LENGTH WIDTH		HEIGHT
4" X 3/4"	2'-9"	4'-3"	0'-6"	10'-0"	5'-0"	6'-6''
6" X 3/4"	3'-9"	5'-6"	0'-8"	11'-0"	6'-0"	6'-6''
8" X 3/4"	4'-5"	6'-4"	0'-9"	12'-0"	6'-0"	6'-6''
10" X 1"	6'-0"	8'-6"	0'-11"	14'-6"	7'-0"	6'-6''

EXTERIOR PLAN VIEW

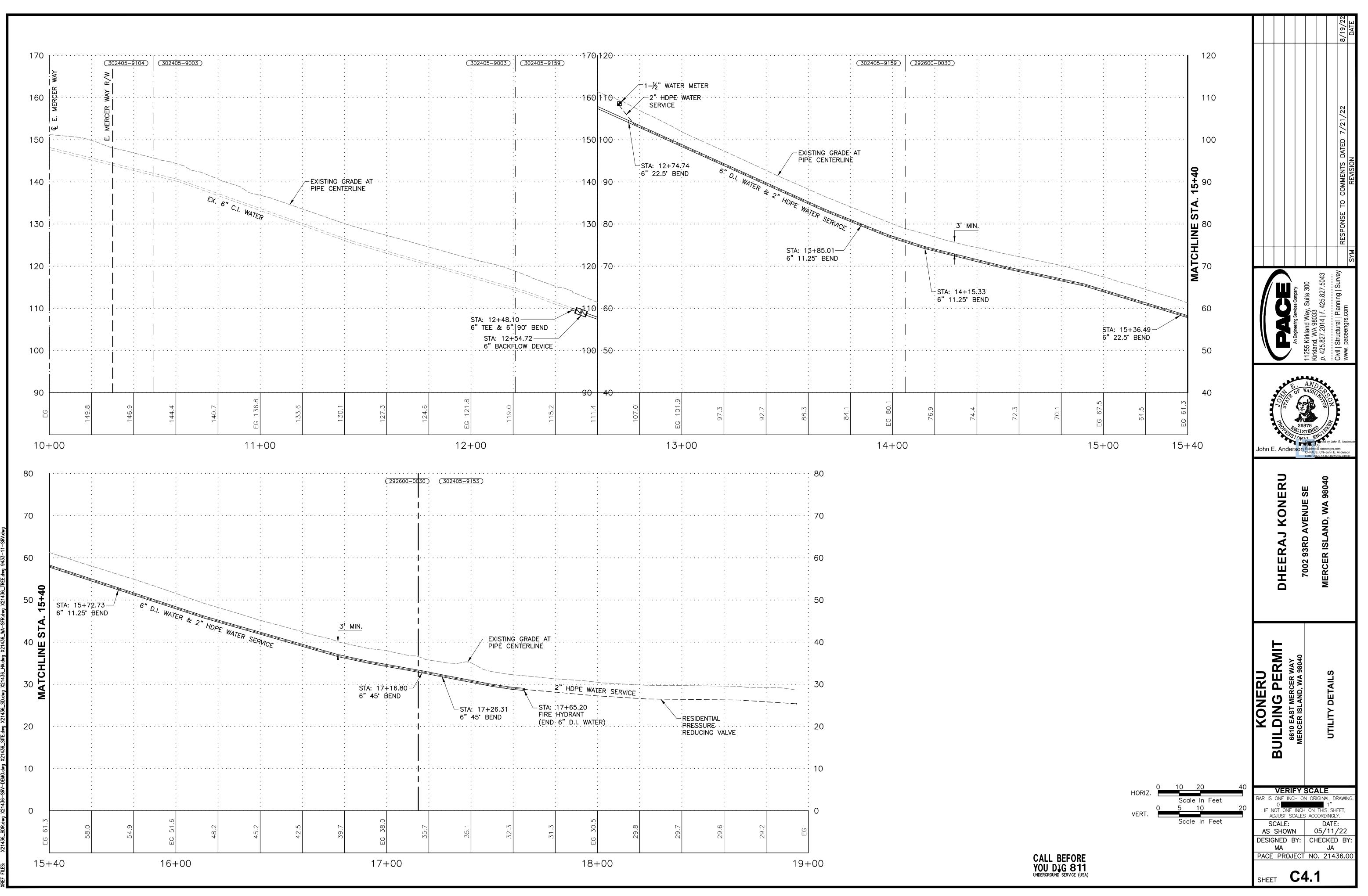
2. PROVIDE 4" DRAIN CONNECTION AT BOTTOM OF VAULT.

4. ALL TEST COCKS MUST BE PROVIDED WITH PCV PLUGS.

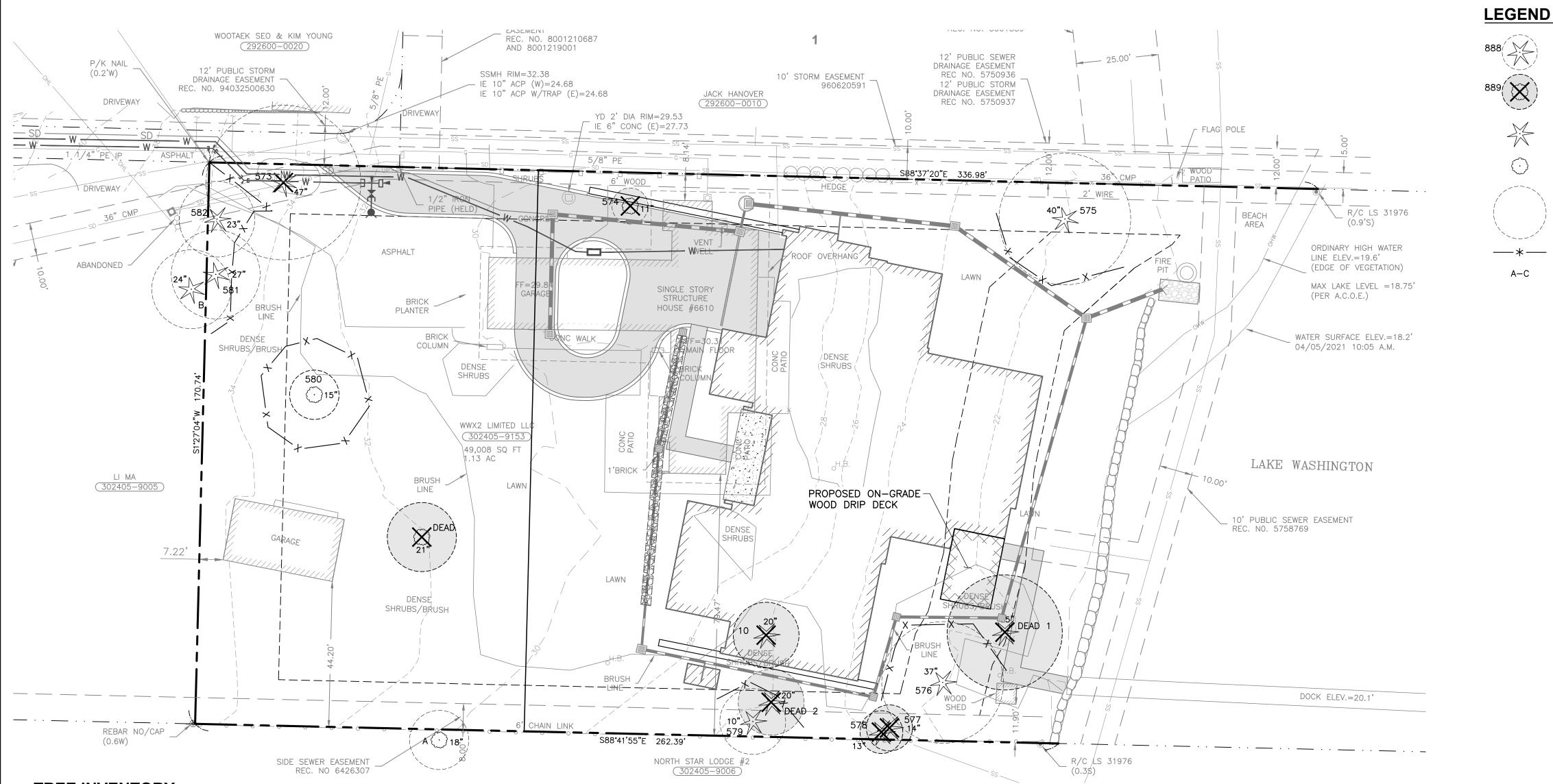
5. VAULT SHALL BE PLACED WITHIN EXISTING PUBLIC WATER EASEMENT. 6. SEE MERCER ISLAND STD. DETAILS 19A AND 19B FOR LAYOUT AND MATERIALS.







FILE NAME: P:\P21\21436 KONERU RESIDENCE\CAD\ENGINEERING\SHEETS\SFR BUILDING PERMIT\P21436_UT-SFR.DWG SAVE TIME: 11/7/2022 3:04:35 PM PLOT TIME: 11/7/2022 3:53 PM USER NAME: JAY PULLEN XREF FILES: X21436_BDR.dwg X21436-SRV-DEMO.dwg X21436_SITE.dwg X21436_SD.dwg X21436_HA.dwg X21436_WA-SFR.dwg X21436_T



TREE INVENTORY

Tree ID	Scientific Name	Common Name	DSH (inches)	DSH Multistem	Health Condition	Structural Condition	N	E	s	w	Exceptional Threshold		24-Inch DSH or Greater	MLOD (feet)	RLOD (feet)	Proposed Action	Notes
573	9 1	Douglas-fir	47.0		Good	Good		-	22.5				Yes		47	Remove	Pavement on all sides, center of drive, crown raised, end weight reduction pruning on north side, water main bored beneath tree
574	Cornus florida	Eastern Dogwood	10.7	8.8,6.1	Good	Good	6.4	8.9	11.9	12.9	12.0		-	6	10	Remove	Hollow tree, very old specimen
575	Pseudotsuga menziesii	Douglas-fir	39.5		Good	Good	21.6	19.6	23.6	25.6	30.0	Exceptional - Size	Yes	16	40	Retain	Top blown out repeatedly, storm damaged limbs, excellent health, soil saturated, gnarled trunk
576	Thuja plicata	Western Redcedar	37.0		Fair	Good	18.5	20.5	18.5	19.5	30.0	Exceptional - Size	Yes	15	37	Retain	Thin canopy, drought stress
577	Thuja plicata	Western Redcedar	14.0		Fair	Good	11.6	10.6	10.6	4.6	30.0		-	6	14	Remove	
578	Thuja plicata	Western Redcedar	13.0		Fair	Good	4.5	11.5	10.5	11.5	30.0		-	6	13	Remove	
579	Thuja plicata	Western Redcedar	10.0		Fair	Good	8.4	8.4	8.4	8.4	30.0		-	6	10	Retain	
580	Magnolia x soulangiana	Saucer magnolia	15.0	9,12	Good	Fair	23.6	20.6	15.1	9.6	-		-	6	15	Retain	Phototropic sprouting, failed tree too
581	Thuja plicata	Western Redcedar	27.0		Good	Good	21.1	23.1	19.1	5.1	30.0		Yes	11	27	Retain	Codominant at 6' with narrow uni
582	Thuja plicata	Western Redcedar	23.0		Good	Good	22.0	21.0	11.0	19.0	30.0		-	10	23	Retain	
Dead 1	Thuja plicata	Western Redcedar	34.8	27,14,17	N/A	N/A	16.5	23.0	21.5	22.5	30.0	Exceptional - Size	Yes	15	N/A	Reduce to wildlife snag	Dead tree, clear signs of purposef girdling, codominant at base, goo candidate for wildlife snag
Dead 2	Thuja plicata	Western Redcedar	20.0		N/A	N/A	16.8	19.8	18.8	18.8	30.0		-	8	N/A	Remove	Dead tree, clear signs of purposef girdling, funnel sticking out of tree likely for herbicide application
A	Fraxinus pennsylvanica	Green Ash	18.0		Good	Good	30.8	30.8	30.8	30.8	30.0		-	8	18	Retain	
В	Thuja plicata	Western Redcedar	23.7	11,21	Good	Good		<u> </u>	19.0				-		24	Retain	Codominant with narrow union, p of grove with tree 582 and 581

FILE NAME: P:\P21\21436 KONERU RESIDENCE\CAD\ENGINEERING\SHEETS\SFR BUILDING PERMIT\P21436_TREE-SFR.DWG SAVE TIME: 11/4/2022 10:39:53 AM PLOT TIME: 11/7/2022 3:54 PM USER NAME: JAY PULLEN XREF FILES: X21436_BDR.dwg V21436-SRV.dwg X21436_TREE.dwg X21436_HA.dwg X21436_TREE-HATCH.dwg X21436_SD.dwg X21436_WA-SFR.dwg 9433-11-SRV.dwg VIABLE TREE TO REMAIN

VIABLE TREE TO BE REMOVED DUE TO PROJECT OR NOT-SUITABLE TO MAINTAIN

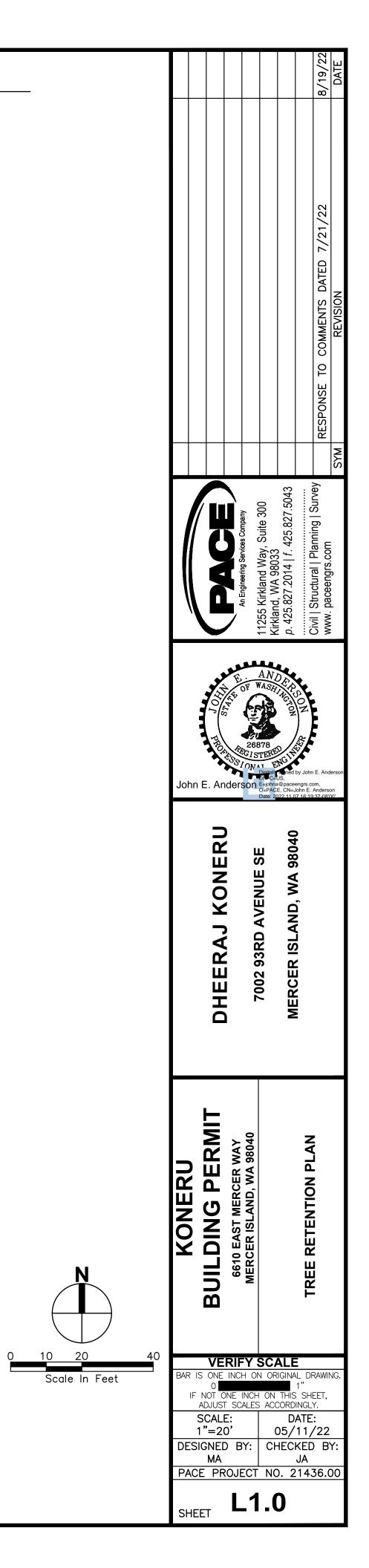
CONIFEROUS

DECIDUOUS TREE

DRIP LINE PER TABLE

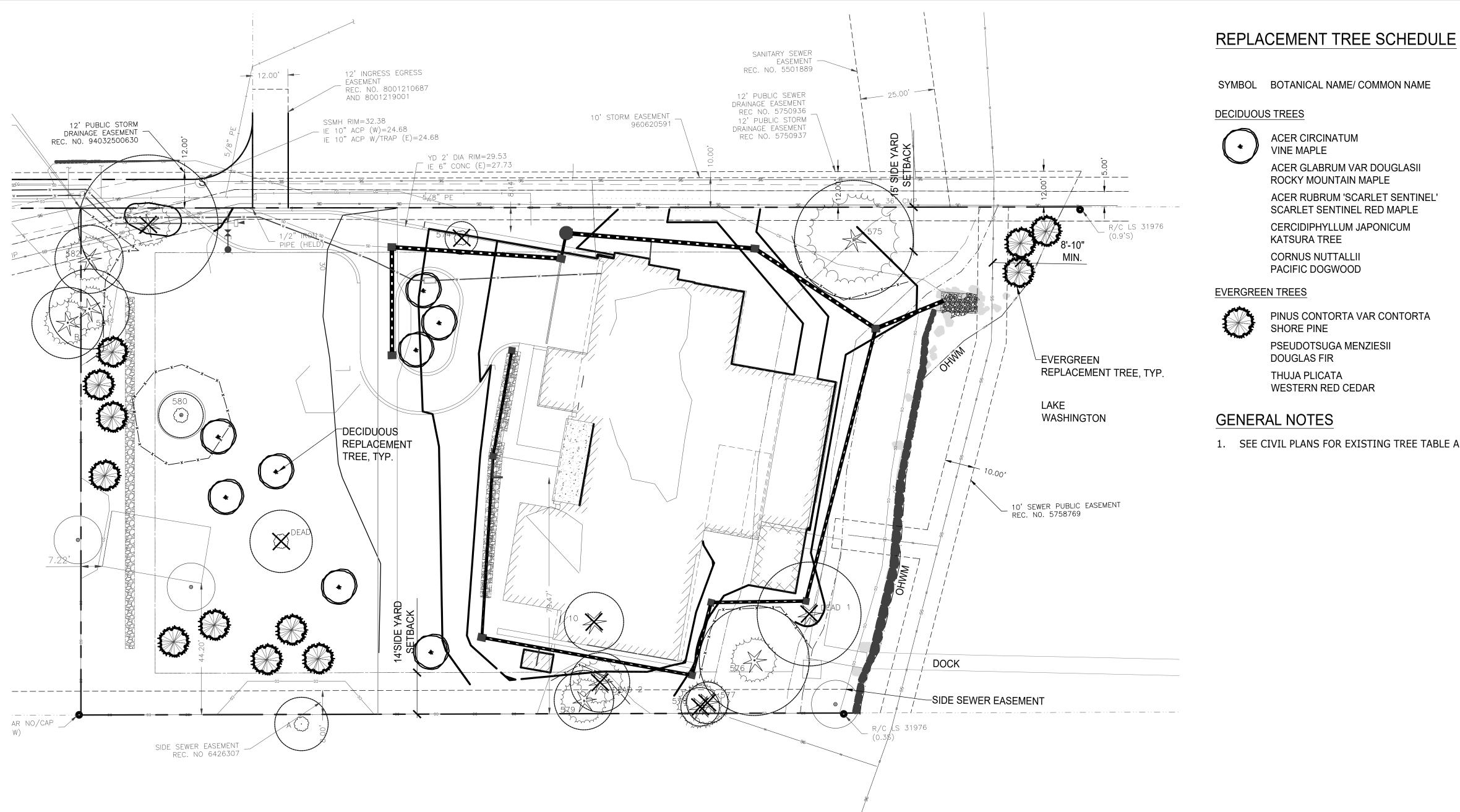
 ----*
 TREE
 PROTECTION

 A-C
 TREES
 LOCATED
 OFF
 SITE



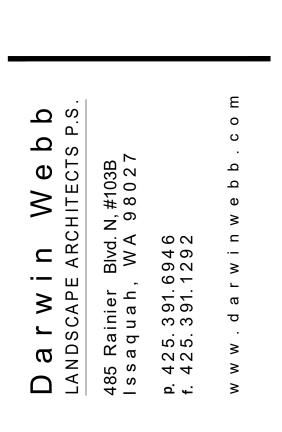


HORIZ.



COMMON NAME	SIZE	QTY.	REMARKS
		8	
R DOUGLASII IAPLE .RLET SENTINEL' RED MAPLE APONICUM	1-1/2" CAL. 1-1/2" CAL. 1-1/2" CAL. 1-1/2" CAL.		MULTI-STEMMED
	1-1/2" CAL.		
		12	
AR CONTORTA	6-7' HT.		
IZIESII	6-7' HT.		
AR	6-7' HT.		

1. SEE CIVIL PLANS FOR EXISTING TREE TABLE AND TREE PROTECTION NOTES AND DETAILS.



Koneru

21.14

RESIDENCE 98040 Way WA 9 KONERU 6610 E Mercer V Mercer Island, V



DARWIN D. WEBB

CERTIFICATE NO. 564

NO.:	DATE:	DESCRIPTION:
1	09.23.22	PERMIT REVISIONS
2	11.08.22	PERMIT REVISIONS

PROJECT #: 21.14

DRAWN: NP

ISSUES:

CHECKED: DW

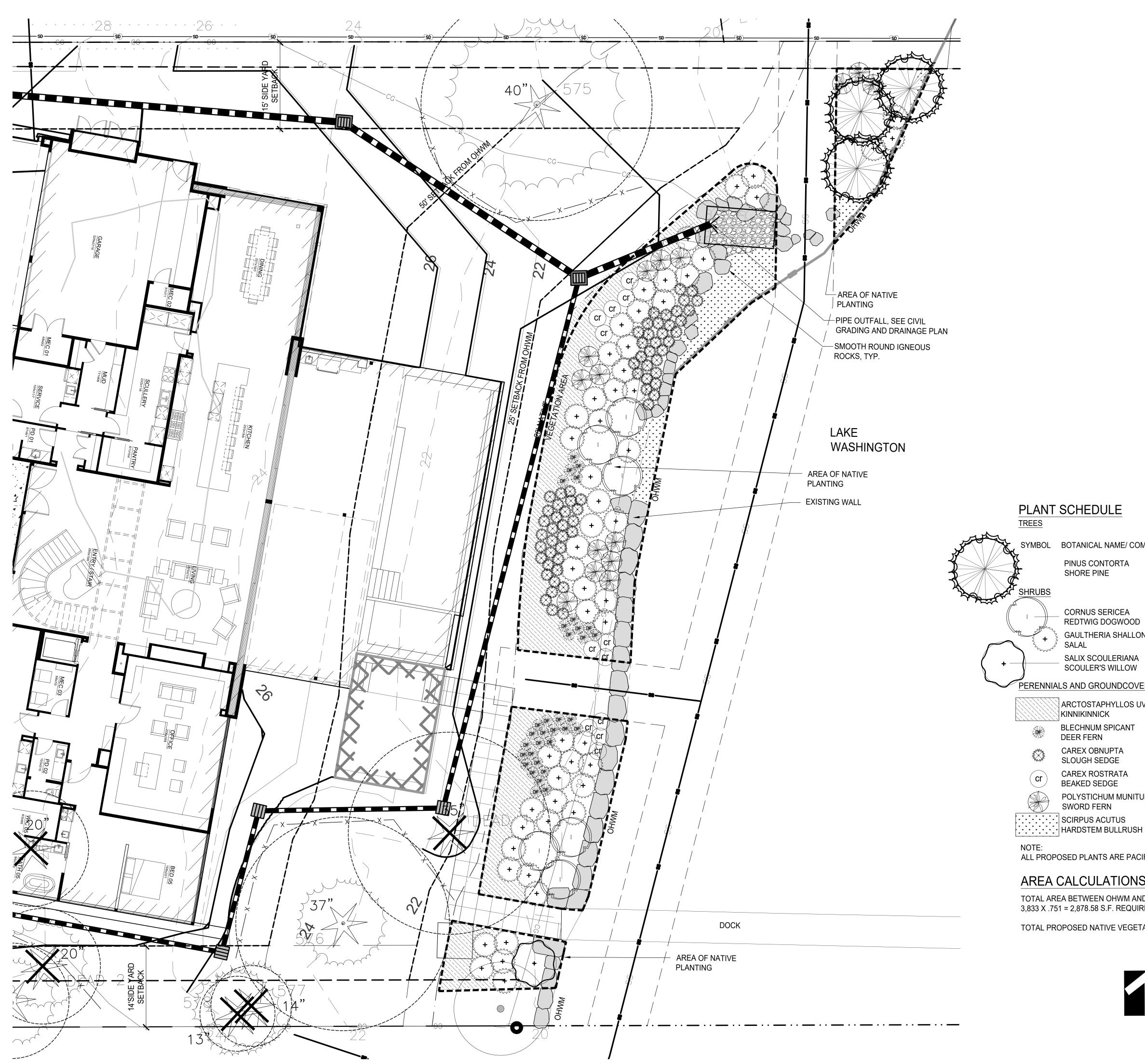
TITLE:

SHEET:

40'

TREE REPLACEMENT PLAN L1.1

SCALE: 1" = 10' - 0"



Koneru 21.14

485 Rainier Blvd. N, #103B I ssaquah, WA 98027 p. 425. 391.6946 f. 425. 391.1292 w w w . d a r w i n w e b b . c o m
nier Blvd. N, #103B Jah, WA 98027 391.6946 391.1292 d a r w i n w e b b .

DTANICAL NAME/ COMMON NAME	SIZE
INUS CONTORTA HORE PINE	4'-5' SP.
ORNUS SERICEA EDTWIG DOGWOOD	1 GAL
AULTHERIA SHALLON ALAL	1 GAL
ALIX SCOULERIANA COULER'S WILLOW	1 GAL
AND GROUNDCOVERS	
RCTOSTAPHYLLOS UVA-URSI NNIKINNICK	4" POT
ECHNUM SPICANT ER FERN	1 GAL.
REX OBNUPTA OUGH SEDGE	4" POT
AREX ROSTRATA AKED SEDGE	4" POT
DLYSTICHUM MUNITUM VORD FERN	1 GAL
CIRPUS ACUTUS ARDSTEM BULLRUSH	4" PO1

NOTE: ALL PROPOSED PLANTS ARE PACIFIC NORTHWEST NATIVES

AREA CALCULATIONS

TOTAL AREA BETWEEN OHWM AND 20' SETBACK = 3,833 S.F. 3,833 X .751 = 2,878.58 S.F. REQUIRED NATIVE VEGETATION

TOTAL PROPOSED NATIVE VEGETATION (75.6%) 2,899 S.F.



	4'	8'	16'	32'
SC	ALE: 1	/8" = 1' -	0"	

QTY. REMARKS

SPACING @ 18" OC

SPACING @ 18" OC







ISSUES:					
NO.:	DATE:	DESCRIPTION:			
1	12.17.21	REVIEW			
2	05.25.22	REVISIONS			
3	06.09.22	REVISIONS			
4	09.23.22	PERMIT REVISIONS			
5	11.08.22	PERMIT REVISIONS			

PROJECT #: 21.14

DRAWN: **RB** CHECKED: DW

TITLE:

SHORELINE PLANTING PLAN L3.0

SHEET:

GENERAL NOTES & 2018 WSEC REQUIREMENTS + 2018 IRC REQUIREMENTS

- 1. ALL WORK SHALL CONFORM TO APPLICABLE CODES. INCLUDING BUT NOT LIMITED TO THE 2018 INTERNATIONAL BUILDING CODE. INTERNATIONAL RESIDENTIAL CODE, THE CURRENT WASHINGTON STATE ENERGY CODE, THE WASHINGTON STATE BUILDING CODE, CHAPTER 51-20 AND 51-21 WAC, THE AMERICANS WITH DISABILITIES ACT, AND ALL RULES, REGULATIONS AND ORDINANCES OF THE GOVERNING AUTHORITY. ENGINEERED DESIGN IN ACCORDANCE WITH THE IBC IS PERMITTED.
- 3. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, AND SITE CONDITIONS, AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY DISCREPANCIES, ERRORS, OR OMISSIONS PRIOR TO PROCEEDING WITH THE WORK.\ 4. DO NOT SCALE THE DRAWINGS FOR CRITICAL DIMENSIONS. DIMENSIONS ARE SHOWN TO FACE OF STUDS, POSTS AND CONCRETE UNLESS INDICATED OTHERWISE
- 5. THE PROJECT SHALL BE SCHEDULED AND INSTALLATION OF ELEMENTS COORDINATED AS NECESSARY BY THE CONTRACTOR TO PERMIT WORK BETWEEN DIFFERENT TRADES TO PROCEED WITHOUT UPSETTING PROPER CONSTRUCTION SEQUENCES OR DELAYING THE PROJECT SCHEDULE 6. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION.
- 7. THE CONTRACTOR SHALL VERIFY ALL DOOR AND WINDOW ROUGH-OPENING DIMENSIONS WITH THE DOOR AND WINDOW MANUFACTURERS 8. PLUMBING, ELECTRICAL AND MECHANICAL CONTRACTORS SHALL VERIFY ALL REQUIREMENTS FOR THIS PROJECT AND COMPLY WITH ALL LOCAL CODES SUBMIT PLANS FOR APPROVAL AND OBTAIN PERMIT BEFORE STARTING WORK 9. SHOWN ONLY ONCE. TYPICAL DETAILS ARE NOT REFERENCED AT ALL LOCATIONS; THE INTENT IS THAT THEY APPLY THROUGHOUT TH
- PROJECT UNLESS OTHERWISE NOTED. 10. ALL REQUIRED SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. 11.) ALL DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO $^{
 m J}$ shall review them and forward them to the building official with notation indicating that the deferred submittal DOCUMENTS HAVE BEEN REVIEWED AND HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENT HAVE BEEN APPROVED BY THE
- BUILDING OFFICIAL 12. ALL SHOP DRAWING DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR. 13. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY HIMSELF OR OTHER TRADES. 14. INSPECTIONS ARE TO BE PER IRC SECTION R109. 15. ADDRESS MUST BE POSTED AND VISIBLE AT CONSTRUCTION SITE PER IRC SEC R319: BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.

IRC M1505 (WA AMENDMENTS)

M1504.1 THROUGH 1505.4.4

IRC M1505.4: WHOLE-HOUSE VENTILATION SYSTEM WAC 51.51.1505 M1505.4: WHOLE HOUSE MECHANICAL VENTILATION SYSTEM. EACH DWELLING UNIT SHALL BE EQUIPPED WITH A VENTILATION SYSTEM. THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH SECTIONS

IRC M1505.4.1: SYSTEM DESIGN. THE WHOLE HOUSE VENTILATION SYSTEM SHALL CONSIST OF ONE OR MORE SUPPLY FANS, ONE OR MORE EXHAUST FANS, OR AN ERV/HRV WITH INTEGRAL FANS, ASSOCIATED DUCTS AND CONTROLS, WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM WITH SUPPLY AND EXHAUST FANS PER SECTIONS M1505.4.1.2, M1505.4.1.3, M1505.4.1.4 AND M1505.4.1.5. LOCAL EXHAUST FANS ARE PERMITTED TO SERVE AS PART OF THE WHOLE HOUSE VENTILATION SYSTEM WHEN PROVIDED WITH THE PROPER CONTROLS PER SECTION M1505.4.2. THE SYSTEMS SHALL BE DESIGNED AND INSTALLED TO EXHAUST AND/OR SUPPLY THE MINIMUM OUTDOOR AIRELOW RATES PER SECTION M1505 4.3 AS MODIFIED BY WHOLE HOUSE VENTILATION SYSTEM COFFICIENTS IN SECTION M1505.4.3.1 WHERE APPLICABLE. THE WHOLE HOUSE VENTILATION SYSTEM SHALL OPERATE CONTINUOUSLY AT THE MINIMUM VENTILATION

RATE DETERMINED PER SECTION M1505.4.2 UNLESS CONFIGURED WITH INTERMITTENT OFF CONTROLS PER SECTION M1505.4.3.2. WAC 51-51-1505 AMENDMENT M1505.4.1.1: WHOLE HOUSE SYSTEM COMPONENT REQUIREMENTS, WHOLE HOUSE VENTILATION SUPPLY AND EXHAUST FANS SPECIFIED IN THIS SECTION SHALL HAVE A MINIMUM EFFICACY AS PRESCRIBED IN THE WAS STATE ENERGY CODE. DESIGN AND INSTALLATION OF THE SYSTEM OR EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, WHOLE HOUSE VENTILATION FANS SHALL BE RATED FOR SOUND AT NO LESS THAN THE MINIMUM AIRFLOW RATE REQUIRED BY SECTION M1505.4.31. VENTILATION FANS SHALL BE RATED FOR SOUND AT A MAXIMUM OF 1.0 SONE. THIS SOUND RATING SHALL BE AT A MINIMUM OF 0.1 IN w.c. (25 Pa) STATIC PRESSURE IN ACCORDANCE WITH HVI PROCEDURES SPECIFIED IN SECTIONS M1505.4.1.2 AND M105.4.1.3. EXCEPTION: HVAC AIR HANDLERS, ERV/HRV UNITS, AND REMOTE MOUNTED FANS NEED NOT MEET THE

- SOUND REQUIREMENTS. TO BE CONSIDERED FOR THIS EXCEPTION, A REMOTE MOUNTED FAN MUST BE MOUNTED OUTSIDE THE HABITABLE SPACES, BATHROOMS, TOILETS, AND HALLWAYS, AND THERE MUST BE AT LEAST 4 FT. OF DUCTWORK BETWEEN THE FAN AND THE INTAKE GRILLE THE WHOLE HOUSE SUPPLY FAN SHALL PROVIDE DUCTED OUTDOOR VENTILATION AIR TO EACH
- HABITABLE SPACE WITHIN THE RESIDENTIAL UNIT. EXCEPTION: INTERIOR JOINING SPACES PROVIDED WITH A 30 CFM WHOLE HOUSE TRANSFER RAN OR A PERMANENT OPENING WITH AN AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF THE INTERIOR ADJOINING SPACE BUT NOT LESS THAN 25 SQUARE FEET DO NOT REQUIRE DUCTED OUTDOOR VENTILATION AIR TO BE SUPPLIED DIRECTLY TO THE SPACE. WHOLE HOUSE TRANSFER FANS SHALL MEET THE SONE RATING OF SECTION M1505.4.1.1 AND SHALL HAVE WHOLE HOSE

VENTILATION CONTROLS THAT COMPLY WITH SECTION M1505.4.2 WAC 51-51-1505 M1505.4.1.2: EXHAUST FANS. EXHAUST FANS REQUIRED SHALL BE DUCTED DIRECTLY TO THE OUTSIDE. EXHAUST AIR OUTLETS SHALL BE DESIGNED TO LIMIT THE PRESSURE DIFFERENCE TO THE OUTSIDE AND EQUIPPED WITH BACKDRAFT DAMPERS OR MOTORIZED DAMPERS IN ACCORDANCE WITH THE WA STATE ENERGY CODE. EXHAUST FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH THE AIRFLOW AND SOUND RATING PROCEDURES OF THE HOME VENTILATING INSTITUTE (HVI 915, HVI LOUDNESS TESTING AND RATING PROCEDURE, HVI 916 AIRFLOW TEST PROCEDURE, AND HVI 920, HVI PRODUCT PERFORMANCE CERTIFICATION PROCEDURE, AS APPLICABLE). EXHAUST FANS REQUIRED IN THIS SECTION MAY BE USED TO PROVIDE LOCAL VENTILATION. BATHROOM EXHAUST FANS THAT ARE DESIGNED FOR INTERMITTENT EXHAUST AIRFLOW RATES HIGHER THAN THE CONTINUOUS EXHAUST AIRFLOW RATES IN TABLE M1505.4.3(3) SHALL BE PROVIDED WITH OCCUPANCY SENSORS OR HUMIDITY SENSORS TO AUTOMATICALLY OVERRIDE THE FAN TO THE HIGH SPEED AIRFLOW RATE. THE EXHAUST FANS SHALL BE TESTED AND THE TESTING RESULTS SHALL BE SUBMITTED AND POSTED IN ACCORDANCE WITH SECTION M1505.4.1.6.

WAC 51.51.1505 M1505.4.1.3: SUPPLY FANS. SUPPLY FANS USED IN MEETING THE REQUIREMENTS OF THIS SECTION SHALL SUPPLY OUTDOOR AIR FROM INTAKE OPENINGS IN ACCORDANCE WITH IMC SECTIONS 401.4 AND 401.5. WHEN DESIGNED FOR INTERMITTENT OFF OPERATION, SUPPLY SYSTEMS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS IN ACCORDANCE WITH THE WA STATE ENERGY CODE. SUPPLY FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH THE AIRFLOW ANSD SOUND RATING PROCEDURES OF THE HOME VENTILATING INSTITUTE (HVI 915, HVI LOUDNESS TESTING AND RATING PROCEDURE, HVI 916, HVI AIRFLOW TEST PROCEDURE, AND HVI 920, HVI PRODUCT PERFORMANCE CERTIFICATION PROCEDURE, AS APPLICABLE). WHERE OUTDOOR AIR IS PROVIDED BY SUPPLY FAN SYSTEMS THE OUTDOOR AIR SHALL BE FILTERED. THE FILTER SHALL BE ACCESSIBLE FOR REGULAR MAINTENANCE AND REPLACEMENT. THE FILTER SHALL HAVE A MINIMUM EFFICIENCY RATING VALUE (MERVo OF AT LEAST 8.

WAC 51.51.1505 M1505.4.1.4: BALANCED WHOLE HOUSE VENTILATION SYSTEM. A BALANCED WHOLE HOUSE VENTILATING SYSTEM SHALL INCLUDE BOTH SUPPLY AND EXHAUST FANS. THE SUPPLY AND EXHAUST FANS SHALL HAVE AIRFLOW THAT IS WITHIN 10 PERCENT OF EACH OTHER. THE TESTED AND BALANCED TOTAL MECHANICAL EXHAUST AIRFLOW RATE IS WITHIN 10 PERCENT OR 5cfm, WHICHEVER IS GREATER, OF THE TOTAL MECHANICAL SUPPLY AIRFLOW RATE. THE FLOW RATE TEST RESULTS SHALL BE SUBMITTED AND POSTED IN ACCORDANCE WITH SECTION M1505.4.1.7. THE EXHAUST FAN SHALL MEET THE REQUIREMENTS OF SECTION M1505.4.1.2. THE SUPPLY FAN SHALL MEET THE REQUIREMENTS OF SECTION M1505.4.1.3. BALANCED VENTILATION SYSTEMS WITH BOTH SUPPLY AND EXHAUST AIRFLOW RATES ABOVE THE RESIDENTIAL DWELLING OR SLEEPING UNIT MINIMUM VENTILATION RATE ARE EXEMPT FROM THE BALANCED AIRFLOW CALCULATION.

WAC 51.51.1505 M1505.4.1.5: FURNACE INTEGRATED SUPPLY. SYSTEMS USING SPACE HEATING AND/OR COOLING AIR HANDLER FANS FOR OUTDOOR AIR SUPPLY DISTRIBUTION ARE NOT PERMITTED EXCEPTION: AIR HANDLER FANS SHALL HAVE MULTI-SPEED OR VARIABLE SPEED SUPPLY AIRFLOW CONTROL CAPABILITY WITH A LOW SPEED OPERATION NOT GREATER THAN 25 PERCENT OF THE RATED SUPPLY AIRELOW CAPACITY DURING VENTILATION ONLY OPERATION. OUTDOOR AIR INTAKE OPENINGS MUST MEET THE PROVISIONS OF SECTIONS R303.2 AND R303.6 AND MUST INCLUDE A MOTORIZED DAMPER THAT IS ACTIVATED BY THE WHOLE HOUSE VENTILATION SYSTEM CONTROLLER. THE MOTORIZED DAMPER MUST BE CONTROLLED TO MAINTAIN THE OUTDOOR AIRFLOW INTAKE AIRFLOW WITHIN 10 PERCENT OF THE WHOLE HOUSE MECHANICAL EXHAUST AIRFLOW RATE. THE FLOW RATE FOR THE OUTDOOR AIR INTAKE MUST BE TESTED AND VERIFIED AT THE MINIMUM VENTILATION FAN SPEED AND THE MAXIMUM HEATING OR COOLING FAN SPEED. THE RESULTS OF THE TEST SHALL BE SUBMITTED AND POSTED IN ACCORDANCE WITH SECTION M1505.4.1.7

WAC 51,51,1505 M1505,4,1,6; TESTING, WHOLE HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE TESTED, BALANCED AND VERIFIED TO PROVIDE A FLOW RATE NOT LESS THAN THE MINIMUM REQUIRED BY SECTIONS M1505.4.3 AND M1505.4.4. TESTING SHALL BE PERFORMED ACCORDING TO THE VENTILATION EQUIPMENT MANUFACTURER'S INSTRUCTIONS, OR BY USING A FLOW HOOD, FLOW GRID, OR OTHER AIRFLOW MEASURING DEVICE AT THE MECHANICAL VENTILATION FAN'S INLET TERMINALS, OUTLET TERMINALS, OR GRILLES OR IN THE CONNECTED VENTILATION DUCTS. WHERE REQUIRED BY THE BUILDING OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE BUILDING OFFICIAL AND BE POSTED IN THE DWELLING UNIT PER SECTION M1505.4.1.7. WAC 51.51.1505 M1505.4.1.7: CERTIFICATE. A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE MECHANICAL CONTRACTOR, TEST AND BALANCE CONTRACTOR OR OTHER APPROVED PARTY AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED, A UTILITY ROOM, OR AN APPROVED LOCATION INSIDE THE BUILDING. WHEN LOCATED ON AN ELECTRICAL PANEL, THE CERTIFICATE SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL, OR OTHER REQUIRED LABELS

THE CERTIFICATE SHALL LIST THE FLOW RATE DETERMINED FROM THE DELIVERED AIRFLOW OF THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AS INSTALLED AND THE TYPE OF MECHANICAL WHOLE HOUSE VENTILATION SYSTEM USED TO COMPLY WITH SECTION M1505.4.3.1. WAC 51.51.1505 M1505.4.2: SYSTEM CONTROLS. THE WHOLE HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED WITH CONTROLS THAT COMPLY WITH THE FOLLOWING. 1. THE WHOLE HOUSE VENTILATION SYSTEM SHALL BE CONTROLLED WITH MANUAL SWITCHES, TIMERS OR OTHER MEANS THAT PROVIDE FOR AUTOMATIC OPERATION OF THE VENTILATION SYSTEM THAT ARE

READILY ACCESSIBLE BY THE OCCUPANT 2. WHOLE HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL OVERRIDE OFF OF THE SYSTEM BY THE OCCUPANT DURING PERIODS OF POOR OUTDOOR AIR QUALITY. CONTROLS SHALL INCLUDE PERMANENT TEXT OR A SYMBOL INDICATING THEIR FUNCTION. RECOMMENDED CONTROL PERMANENT LABELING TO INCLUDE TEXT SIMILAR TO THE FOLLOWING: "LEAVE

ON UNLESS OUTDOOR AIR QUALITY IS VERY POOR." MANUAL CONTROLS SHALL BE READILY ACCESSIBLE BY THE OCCUPANT: 3. WHOLE HOUSE VENTILATION SYSTEMS SHALL BE CONFIGURED TO OPERATE CONTINUOUSLY EXCEPT

WHERE INTERMITTENT OFF CONTROLS AND SIZING ARE PROVIDED PER SECTION M1505.4.3.2. WAC 51.51.1505 M1505.4.3: MECHANICAL VENTILATION RATE. THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL PROVIDE OUTDOOR AIR AT A CONTINUOUS RATE AS DETERMINED IN ACCORDANCE WITH

TABLE M1505.4.3(1) OR EQUATION 15-1 EQUATION 15-1 VENTILATION RATE IN CUBIC FEET PER MINUTE = (0.01 X TOTAL SQ. FT.) + [7.5 X (NUMBER OF BEDROOMS +1)] BUT NOT LESS THAN 30 CFM FOR EACH DWELLING UNIT.

VHOLE-HOUSE MECH QUATION 15-1 /ENTILATION RATE IN 7.5 x (NUMBER OF BE	I CUBIC FEET	PER MINUTE	E = (0.1 x TOTA		
		NUME	BER OF BEDR	OOMS	
DWELLING UNIT FLOOR AREA	0-1	2	3	4	5+
(Square feet)		A	IRFLOW IN CF	M	
< 500	30	30	35	45	50
501 - 1,000	30	35	40	50	55
1,001 - 1,500	30	40	45	55	60
1,501 - 2,000	35	45	50	60	65
2,001 - 2,500	40	50	55	65	70
2,501 - 3,000	45	55	60	70	75
3,001 - 3,500	50	60	65	75	80
3,501 - 4,000	55	65	70	80	85
4,001 - 4,500	60	70	75	85	90
4,501 - 5,000	65	75	80	90	95

M1505.4.3.1 VENTILATION QUALITY ADJUSTMENT. THE MIN. WHOLE HOUSE VENTILATION RATE FROM SECTION 1505.4.3 SHALL BE ADJUSTED BY THE SYSTEM COEFFICIENT IN TABLE M1505.4.3(2) BASED ON THE SYSTEM TYPE NOT MEETING THE DEFINITION OF A BALANCED WHOLE HOUSE VENTILATION SYSTEM AND/OR NOT MEETING THE DEFINITION OF DISTRIBUTED WHOLE HOSE VENTILATION SYSTEM.

IRC TABLE 1505.4.3(2)

SYSTEM COEFFICIENT (Csystem)					
DISTRIBUTED	NOT DIST.				
1.0	1.25				
1.25	1.5				
	DISTRIBUTED	DISTRIBUTED NOT DIST. 1.0 1.25			

M1505.4.3.2 INTERMITTENT OFF OPERATION. WHOLE-HOUSE MECHANICAL VENTILATION SYSTEMS SHALL BE PROVIDED WITH ADVANCED CONTROLS THAT ARE CONFIGURED TO OPERATE THE SYSTEM WITH INTERMITTENT OFF OPERATION SHALL OPERATE FOR AT LEAST A TWO HOURS IN EACH FOUR-HOUR SEGMENT. THE WHOLE HOUSE VENTILATION AIRFLOW RATE DETERMINED IN ACCORDANCE WITH SECTION M1505.4.3 AS CORRECTED BY SECTION M1505.4.3.1 IS , MULTIPLIED BY THE FACTOR DETERMINED IN ACCORDANCE WITH TABLE M1505.4.3(3).

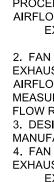
<	IRC TABLE 1505.4.3(3)					
\geq	INTERMITTENT OFF WHOLE HOUSE MECHANICAL VENTILATION RATE FACTORS					
$\left\langle \right\rangle$	RUN TIME % EA 4hr SEGMENT	50%	66%	75%	100%	
(FACTOR	2	1.5	1.3	1.0	



NORTHWEST PERSPECTIVE

FINAL VENTILATION RATE (147 CFM x 1.25 Csystem x 2 FACTOR) = 367.5





IRC TABLE 1505.4.4(2) PRESCRIPTIVE EXHAUST DUCT SIZING

FAN TES . 125 7 70 7 NO LIMIT 3

BUILDING THERMAL ENVELOPE

TIME, DATE, AND LOCATION OF THE TEST. A DATE-STAMPED SMART PHONE PHOTO OR AIR LEAKAGE TESTING SOFTWARE MAY BE USED TO SATISFY THIS REQUIREMENT.

INSULATION A. CEILINGS (VAULTED)= R-38, MIN 3. FACED BATTS ARE LAPPED AND ARE TO BE STAPLED TO FACE OF STUDS.

C. FLOORS = R-38 D. SLAB-ON-GRADE = R-10 E. 4X HEADERS = R-10 OF R-6. OF 40 psi OR ENGINEERED TO SUPPORT THE APPLIANCE.

M1505.4.4 LOCAL EXHAUST RATES. LOCAL EXHAUST SYSTEMS SHALL BE DESIGNED TO HAVE THE CAPACITY TO EXHAUST THE MIN. AIRLOW RATE DETERMINED IN ACCORDANCE WITH TABLE M1505.4.4(1). IF THE LOCAL EXHAUST FAN IS INCLUDED IN THE WHOLE HOUSE VENTILATION SYSTEM, IN ACCORDANCE WITH SECTION 1505.4.1 THEN THE EXHAUST FAN SHALL BE CONTROLLED TO OPERATE AS SPECIFIED IN SECTION M1505.4.2 M1505.4.4.1 LOCAL EXHAUST. BATHROOMS, TOILET ROOMS, AND KITCHENS SHALL INCLUDE A LOCAL EXHAUST SYSTEM. SUCH LOCAL EXHAUST SYSTEMS SHALL HAVE THE CAPACITY TO EXHAUST THE MIN. AIRFLOW RATE IN ACCORDANCE WITH TABLE M1505.4.4(1). FANS REQUIRED BY THIS SECTION SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL OVERRIDE OR AUTOMATIC OCCUPANCY SENSOR, HUMIDITY SENSOR OR POLLUTANT SENSOR CONTROLS. AN "ON/OFF" SWITCH SHALL MEET THIS REQUIREMENT FOR MANUAL CONTROLS. MANUAL FAN CONTROLS SHALL BE READILY ACCESSIBLE IN THE ROOM SERVED BY THE FAN. IRC TABLE 1505.4.4(1) MIN. LOCAL EXHAUST RATES AREAS TO BE EXHAUSTED INTERMITTENT CONTINUOUS 100 cfm 30 cfm KITCHEN BATHROOMS - TOILET ROOMS 50 cfm 20 cfm

M1505.4.4 LOCAL EXHAUST FANS EXHAUST FANS SHALL MEET THE FOLLOWING CRITERIA 1. EXHAUST FANS SHALL BE TESTED AND RATED IN ACCORDANCE WITH THE AIRFLOW AND SOUND RATING PROCEDURES OF THE HOME VENTILATING INSTITUTE (HVI 915 HVI LOUDNESS AND RATING PROCEDURE, HVI AIRFLOW TEST PROCEDURE, AND HVI 920, HVI PRODUCT PERFORMANCE CERTIFICATION PROCEDURE). EXCEPTION: WHERE A RANGE HOOD OR DOWN DRAFT EXHAUST FAN IS USED FOR LOCAL EXHAUST FOR A KITCHEN THE DEVICE IS NOT REQUIRED TO BE RATED PER THESE STANDARDS 2. FAN AIRFLOW RATING AND DUCT SYSTEM SHALL BE DESIGNED AND INSTALLED TO DELIVER AT LEAST THE EXHAUST AIRFLOW REQUIRED BU TABLE M1505.4.4(1). THE AIRFLOWS REQUIRED REFER TO THE DELIVERED AIRFLOW OF THE SYSTEM AS INSTALLED AND TESTED USING A FLOW HOOD. FLOW GRID. OR OTHER AIRFLOW MEASUREMENT DEVICE. LOCAL EXHAUST SYSTEMS SHALL BE TESTED, BALANCED AND VERIFIED TO PROVIDE A FLOW RATE NOT LESS THAN THE MINIMUM REQUIRED BY THIS SECTION. 3. DESIGN AND INSTALLATION OF THE SYSTEM OR EQUIPMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. 4. FAN AIRFLOW RATING AND DUCT SYSTEM SHALL BE DESIGNED AND INSTALLED TO DELIVER AT LEAST THE EXHAUST AIRFLOW REQUIRED BY TABLE M1505.4.4(1) EXCEPTIONS: 1. AN EXHAUST AIRFLOW RATING AT A PRESSURE OF 0.25 IN. w.g. MAY BE USED, PROVIDED THE DUCT SIZING MEETS THE PRESCRIPTIVE REQUIREMENTS OF TABLE M1505.4.4(2) 2. WHERE A RANGE HOOD OR DOWN DRAFT EXHAUST FAN IS USED TO SATISFY THE LOCAL VENTILATION REQUIREMENTS FOR KITCHENS, THE RANGE HOOD OR DOWN DRAFT

ESTED cfm) 0.25 are feet)	MIN. FLEX DIA. (IN.)	MAX. LENGTH (FT.)	MIN. SMOOTH DIA. (IN.)	MAX. LENGTH (FT.)	MAX. ELBOWS
50	4	25	4	70	3
50	5	90	5	100	3
50	6	NO LIMIT	6	NO LIMIT	3
80	4	NA	4	20	3
80	5	15	5	100	3
80	6	90	6	NO LIMIT	3
100	5	NA	5	50	3
100	6	45	6	NO LIMIT	3
125	6	15	6	NO LIMIT	3

EXHAUST SHALL NOT BE LESS THAN 100 cfm AT 0.10 IN. w.g.

COMPLIANCE & CERTIFICATE POSTED

THE BUILDING THERMAL ENVELOPE SHALL MEET THE PRESCRIPTIVE REQUIREMENTS OF SECTION R401 THROUGH R404 OF THE WSEC. IN ADDITION, DWELLING UNITS AND SLEEPING UNITS IN A RESIDENTIAL BUILDING SHALL COMPLY WITH SECTION R406 OF THE WSEC. R401.3 CERTIFICATE. A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR OTHER APPROVED PARTY AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED, A UTILITY ROOM, OR AN APPROVED LOCATION INSIDE THE BUILDING. THE

CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION (SLAB, BELOW-GRADE WALL, ADN/OR FLOOR) AND DUCTS OUTSIDE CONDITIONED SPACES, U-FACTORS FOR FENESTRATION AND THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF FENESTRATION; THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON THE BUILDING; AND THE RESULTS FROM THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FLOW RATE TEST. WHERE THERE IS MORE THAN ONE VALUE FOR EACH COMPONENT, THE CERTIFICATE SHALL LIST THE VALUE COVERING THE LARGEST AREA. THE CERTIFICATE SHALL LIST THE TYPES OF EFFICIENCIES OF HEATING, COOLING WHOLE-HOUSE MECHANICAL VENTILATION, AND SERVICE WATER HEATING APPLIANCES, WHERE A GAS-FIRED UNVENTED ROOM HEATER, ELECTRIC FURNACE, OR BASEBOARD ELECTRIC HEATER IS INSTALLED IN THE RESIDENCE, THE CERTIFICATE SHALL LIST "GAS-FIRED UNVENTED ROOM HEATER", "ELECTRIC FURNACE" OR BASEBOARD ELECTRIC HEATER," AS APPROPRIATE. AN EFFICIENCY SHALL NOT BE *LISTED* FOR GAS-FIRED UNVENTED ROOM HEATERS, ELECTRIC FURNACES OR ELECTRIC BASEBOARD HEATERS. THE CODE OFFICIAL MAY REQUIRE THAT DOCUMENTATION FOR ANY REQUIRED TEST RESULTS INCLUDE AN ELECTRONIC RECORD OF THE

FENESTRATION

AN AREA-WEIGHTED AVERAGE OF FENESTRATION PRODUCTS SHALL BE PERMITTED TO SATISFY THE U-FACTOR REQUIREMENTS. UP TO 15 SQUARE FEET OF GLAZED FENESTRATION PER DWELLING UNIT SHALL BE PERMITTED TO BE EXEMPT FROM U-FACTOR. ONE SIDE-HINGED OPAQUE DOOR ASSEMBLY UP TO 24 SQUARE FEET IN AREA IS EXEMPTED FROM THE U-FACTOR REQUIREMENT.

1. PROVIDE MINIMUM R-10 SPRAY FOAM INSULATION @ BOTTOM SIDE OF SHEATHING. COMPLETELY FILL REMAINING JOIST CAVITY WITH BATT INSULATION. TOTAL INSULATION VALUE (SPRAY FOAM + BATT) TO BE R-38 MIN 2. SPRAY FOAM INSULATION TO MEET THE REQUIREMENTS SET FORTH IN IRC R806.5. ITEM 5.1.33

B. WOOD FRAMED WALLS = R-21 INT. 1. ALL EXTERIOR WALL CAVITIES, INCLUDING CAVITIES ISOLATED DURING FRAMING, MUST BE FILLED WITH UNCOMPRESSED INSULATION. 2. RIGID BOARD INSULATION IS TO BE PLACED BEHIND ALL RECESSED FIXTURES IN EXTERIOR WALLS.

4. INSULATE BEHIND_TUB/ SHOWER PARTITIONS AND CORNERS. 1. FLOOR INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING. 2. INSULATION SUPPORTS SHALL BE INSTALLED SO SPACING IS NO MORE THAN 24-INCHES ON CENTER. 3. FOUNDATION VENTS SHALL BE PLACED SO THAT THE TOP OF THE VENT IS BELOW THE LOWER SURFACE OF THE FLOOR INSULATION.

1. R-10 CONTINUOUS INSULATION IS REQUIRED UNDER HEATED SLAB ON GRADE FLOORS. SEE SECTION R402.2.9.1. 2. A TWO-INCH BY TWO-INCH (MAXIMUM) PRESSURE TREATED NAILER MAY BE PLACED AT THE FINISHED FLOOR ELEVATION FOR ATTACHMENT OF INTERIOR FINISH MATERIALS.

F. DUCTS = DUCTS SHALL BE INSULATED TO A MINIMUM OF R-8. EXCEPTION: DUCTS OR PORTIONS THEREOF LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE.

G. PIPING = MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105°F OR BELOW 55°F SHALL BE INSULATED TO A MINIMUM 1. PIPING INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT CAUSED BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE, AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE PERMITTED.

INSULATION FOR HOT WATER PIPE SHALL HAVE A MINIMUM THERMAL RESISTANCE (R-VALUE) OF R-4. H. ELECTRIC WATER HEATERS = ALL ELECTRIC WATER HEATERS IN UNHEATED SPACES OR ON CONCRETE FLOORS SHALL BE PLACED ON AN INCOMPRESSIBLE, INSULATED SURFACE WITH A MINIMUM THERMAL RESISTANCE OF R-10, AND A MIN. COMPRESSIVE STRENGTH

MOISTURE CONTROL

VAPOR RETARDERS						
SLABS	CONTINUOUS GCP PREPRUFE 300R PLUS UNDERSLAB WAT					
FLOORS	3/4" CDX PLYWOOD or 3/4" O.S.B.					
WALLS	KRAFT FACED FIBERGLASS BATTS					
CEILING	NO PVA PAINT @ UNVENTED CEILING PER IRC R806.5, INTE CEILING SIDE @ UNVENTED CEILING CONDITIONS.					
\sim						
1. ATTIC ACCES	SS AND DOORS ARE TO BE BAFFLED, WEATHER-STRIPPED AN					
2. EXTERIOR DO	DORS AND WINDOWS ARE TO BE CAULKED AND WEATHER-ST					
3. RECESSED L	IGHT FIXTURES TO LIMIT AIR LEAKAGE PER WSEC 402.4.4.					
4. ALL PLUMBIN	IG, ELECTRICAL AND HVAC PENETRATIONS IN FLOORS, WALL					
 ELECTRICAL OUTLET AND LIGHT SWITCH BOXES ON EXTERIOR WALLS MU PLATE GASKET. 						
6. SILL PLATE T	O BE CAULKED OR GLUED TO SUB-FLOOR.					
7. CAULK/SEAL	RIM JOISTS BETWEEN STORIES.					

AIR LEAKAGE AND TESTING

THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4. THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING 5 AIR CHANGES PER HOUR. TESTING SHALL BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCHES W.G. (50 PASCALS). FOR THIS TEST ONLY. THE VOLUME OF THE HOME SHALL BE THE CONDITIONED FLOOR AREA IN FT? MULTIPLIED BY 8.5 FEET, WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE.

- ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE CRITERIA LISTED IN TABLE R402.4.1.1. AS APPLICABLE TO THE METHOD OF CONSTRUCTION. WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED THIRD PARTY SHALL INSPECT ALL COMPONENTS AND VERIFY COMPLIANCE.
- AND SWINGING DOORS NO MORE THAN 0.5 CEM PER SQUARE FOOT, WHEN TESTED ACCORDING TO NERC 400 OR AAMA/WDMA/CSA 101/I.S.2/A440 BY AN ACCREDITED, INDEPENDENT LABORATORY AND LISTED AND LABELED BY THE MANUFACTURER. EXCEPTIONS FIELD-FABRICATED FENESTRATION PRODUCTS (WINDOWS, SKYLIGHTS AND DOORS). 2. CUSTOM EXTERIOR FENESTRATION PRODUCTS MANUFACTURED BY A SMALL BUSINESS PROVIDED THEY
 - MEET THE APPLICABLE PROVISIONS OF CHAPTER 24 OF THE INTERNATIONAL BUILDING CODE. ONCE VISUAL INSPECTION HAS CONFIRMED THE PRESENCE OF A GASKET, OPERABLE WINDOWS AND DOORS MANUFACTURED BY SMALL BUSINESS SHALL BE PERMITTED TO BE SEALED OFF AT THE FRAME PRIOR TO THE TEST.

RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE TYPE IC-RATED AND CERTIFIED UNDER ASTM E283 AS HAVING AN AIR LEAKAGE RATE NOT MORE THAN 2.0 CFM WHEN TESTED AT A 1.57 PSF PRESSURE DIFFERENTIAL AND SHALL HAVE A LABEL ATTACHED SHOWING COMPLIANCE WITH THIS TEST METHOD. ALL RECESSED LUMINAIRES SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR WALL OR CEILING COVERING.

ALL DUCTS MUST BE LEAK TESTED IN ACCORDANCE W/ WSU RS-33 USING THE MAXIMUM DUCT LEAKAGE RATE SPECIFIED. TOTAL LEAKAGE MUST BE VERIFIED BY EITHER THE ROUGH-IN TEST OR POST-CONSTRUCTION TEST PER WSEC R403.3.3. TOTAL LEAKAGE MUST BE LESS THAN OR EQUAL TO 4 CFM PER 100 SF OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1" WG (25PA) ACROSS THE ENTIRE SYSTEM.

ELECTRIC POWER & LIGHTING

LIGHTING EQUIPMENT

R404.1 A MINIMUM OF 90 PERCENT OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS. R404.1.1 FUEL GAS LIGHTING SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS.

WA STATE ENERGY CREDITS

ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS EACH DWELLING UNIT IN ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES SHALL COMPLY WITH SUFFICIENT OPTIONS FROM TABLE R406.2 SO AS TO ACHIEVE THE REQUIRED MINIMUM NUMBER OF CREDITS:

2018 WSEC TABLE R402.1.1					
CLIMATE ZONE 5 AND MARINE 4	R-VALUE	EQUIV U-FACTORS			
FENESTRATION U-FACTOR	N/A	0.28*			
CEILING (VAULT) R-VALUE	38	0.026			
WOOD FRAMED WALL R-VALUE	21 int.	0.056			
FLOOR R-VALUE	38	0.026*			
SLAB R-VALUE	10, entire slab	N/A			

2018 WSEC CREDITS SELECTED

	ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS PER WSEC R406: LARGE DWELLING UNIT (>/= 5,000 SF): 7.0 CREDITS REQUIRED				
	SYSTEM FUEL NORMALIZATION CREDIT TABLE R406.2				
	2	HEAT PUMP. EQUIPMENT LISTED IN TABLE C403.3.2(1) or C403.3.2(2).	1.0		
	OPTION	EFFICIENT BUILDING ENVELOPE OPTIONS			
2	1.3	PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE 402.1.1 WITH THE FOLLOWING MODIFICATIONS: VERTICAL FENESTRATION U = 0.28 SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB FLOOR INSULATION R-38 MIN	0.5		
		HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS			
2	3.3	CLOSED-LOOP GROUND SOURCE HEAT PUMP; w/ A MIN COP OF 3.3	1.5		
		EFFICIENT WATER HEATING OPTIONS			
1	5.3	WATER HEATING SYSTEM: ENERGY STAR RATED GAS OR P WATER HEATER WITH MIN. UEF OF 0.91 OR SOLAR WATER HEATING SUPPLEMENTING A MIN. STD. WATER HEATER.	1.0		
		RENEWABLE ELECTRIC ENERGY (3 CREDITS MAX.)			
	6.1	SUPPLY MIN 3600 kWh OF ELECTRICAL GENERATION ANNUALLY BY ON-SITE SOLAR EQUIPMENT. SOLAR DESIGN TO MEET NATIONAL RENEWABLE ENERGY LABORATORY CALC. PVWATTS	3.0		
	FOR FULL	TEXT AND INFORMATION, SEE WSEC, SECTION R406	7.0		

FOR FULL TEXT AND INFORMATION, SEE WSEC, SECTION R406

TERPROOFING SYSTEM ERIOR VAPOR RETARDER SHALL NOT BE INSTALLED ON THE ND INSULATED. RIPPED. LS AND CEILING ARE TO BE CAULKED AND SEALED.

IUST BE SEALED AT THE BACK OF THE RECEPTACLE WITH A FACE 8. FIRE-STOP ALL PENETRATIONS AS REQUIRED BY THE CODE & BUILDING DEPARTMENT.

 $^{ar{b}}$ R402.4.1.1 INSTALLATION. THE COMPONENTS OF THE BUILDING THERMAL ENVELOPE AS LISTED IN TABLE R402.4.1.1 SHALL BE INSTALLED IN WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FOOT,

6610 EAST MERCER WAY, MERCER ISLAND, WA 98040 **KONERU** [residence]

PROJECT CONTACTS OWNER: DHEERAJ KONERU 7002 93RD AVE. SE

MERCER ISLAND, WA 98040 ARCHITECT: McCULLOUGH ARCHITECTS 2910 1ST AVE S SEATTLE, WA 98178

SURVEYOR & CIVIL ENGINEERING: PACE 11255 KIRKLAND WAY, STE 300 KIRKLAND, WA 98033

STRUCTURAL ENGINEER: MALSAM TSANG 122 S JACKSON ST, SUITE 210 SEATTLE, WA 98104

GENERAL CONTRACTOR: JMK HOMES LLC PO BOX 317 RONALD, WA 98940

LANDSCAPE ARCHITECT: DARWIN WEBB LA 485 RAINIER BOULEVARD N, #103B ISSAQUAH, WA 98027

GEOTECHNICAL ENGINEER: GEOTECH CONSULTANTS INC 2401 10TH AVE E SEATTLE, WA 98102

5,469 SF

4,497 SF

9,966 SF

945 SF

SUB21-008TYPE III - SHORT PLAT

29'-0", 17% LOT WIDTH (170'-9")

40% @ LOT SLOPE LESS THAN 15%

30'-0" ABOVE AVERAGE BUILDING ELEVATION

20,0387.60 SF ALLOWED - 13,527 SF PROPOSED

10,911 SF PROPOSED

SEE ARBORIST REPORT AND CIVIL PLANS

NFPA 13R FIRE SPRINKLER SYSTEM (>5,000 SF)

12,000 SF or 40% OF THE LOT AREA, WHICHEVER IS LESS

ZONE 1 - 25'-0", NO STRUCTURES ALLOWED & 10% MAX IMPERVIOUS

ZONE 2 - 25'-0", STRUCTURES ALLOWED & 30% MAX COVERAGE

6610 EAST MERCER WAY

3024059153

50'-0" TOTAL

CATEGORY 'D2'

EXPOSURE 'C'

TYPE VB

R-15

20'-0"

50,094 SF (1.15 AC)

DEMO EXISTING SFR HOME, CONSTRUCT NEW SFR AND SITE IMPROVEMENTS

ARBORIST: TREE133 LLC

PROJECT INFO

BUILDING AREA MAIN FLOOR HEATED UPPER FLOOR HEATED

TOTAL LIVING GARAGE

PROJECT DESCRIPTION

RELATED PERMITS: PROJECT ADDRESS PARCEL NO .:

LOT SIZE: ZONE: SETBACKS: SHORELINE / REAR

FRONT SIDE BUILDING HEIGHT: LOT COVERAGE:

GROSS FLOOR AREA:

TREE RETENTION: SEISMIC DESIGN: WIND DESIGN:

FIRE SUPPRESSION: CONSTRUCTION:

LEGAL DESCRIPTION

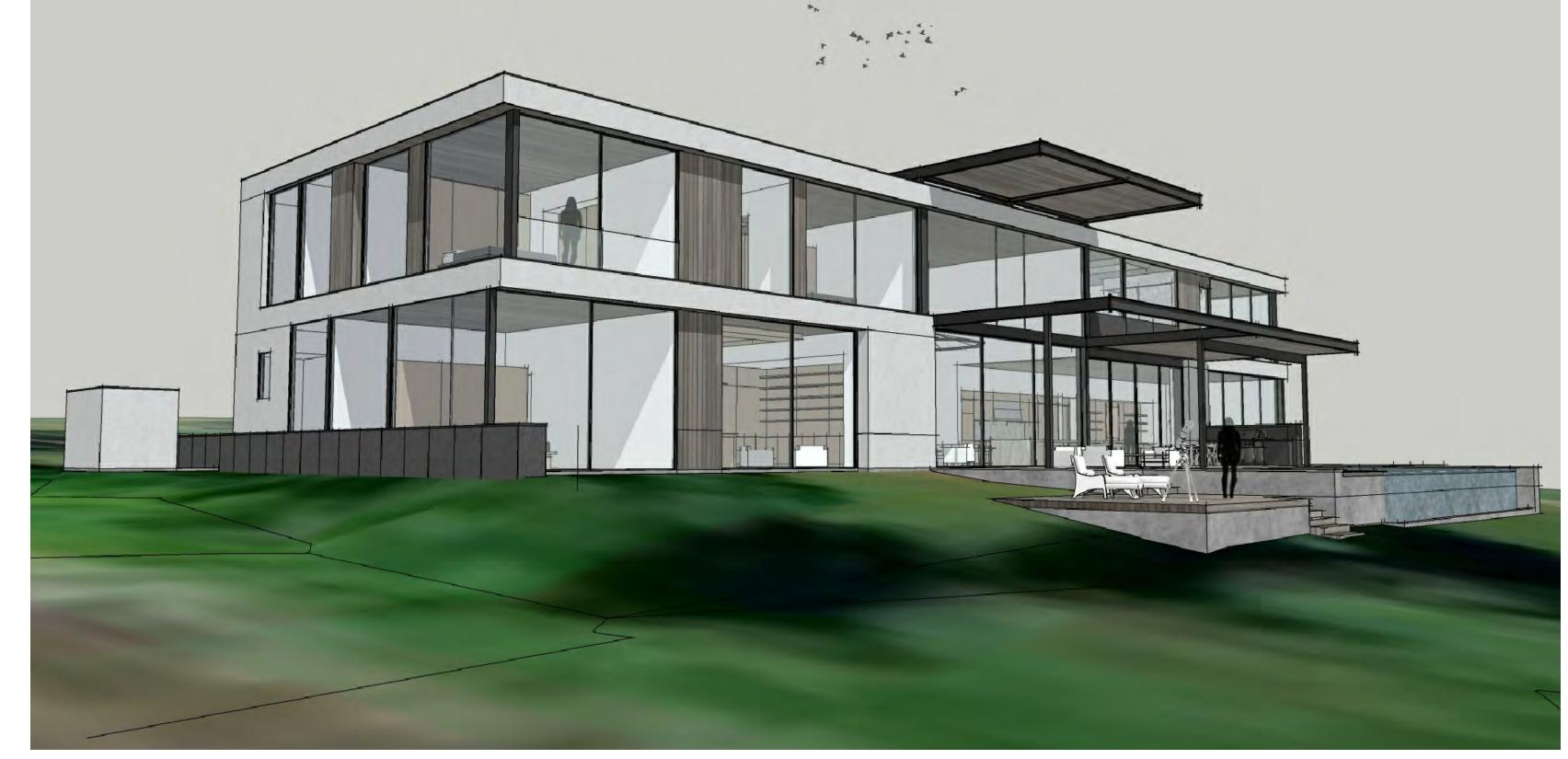
THE SOUTH HALF OF THAT PORTION OF GOVERNMENT LOT 1, SECTION 30, TOWNSHIP 24 NORTH, RANGE 5 EAST, LYING BETWEEN THE NORTH 498 FEET THEREOF AND SOUTH 471 FEET THEREOF AND EASTERLY OF A LINE PARALLEL WITH AND 1588.78 FEET EASTERLY OF (MEASURED AT RIGHT ANGELES TO) THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 30; EXCEPT THE SOUTH 9 FEET THEREOF.

NFPA 72 FIRE ALARM SYSTEM

TOGETHER WITH SHORELANDS OF THE SECOND CLASS IN FRONT AND ABUTTING UPON SAID PORTION OF SADI GOVERNMENT LOT 1.

TOGETHER WITH AN EASEMENT FOR UNOBSTRUCTED INGRESS AND EGRESS OVER THE EXISTING PRIVATE ROADWAY EXTENDING NORTHWESTERLY TO EAST MERCER WAY APPURTENANT TO THE PROPERTY HEREBY CONVEYED.

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.



NORTHEAST PERSPECTIVE

PROJECT MANAGER: DEVLIN ROSE devlin@mccullougharchitects.com P: 206.443.1182

PROJECT ENGINEER: B.L./J.C. www.paceengrs.com P: 425.827.2014

PROJECT ENGINEER: MARC MALSAM marc@malsam-tsang.com P: 206.789.6038

PROJECT MANAGER: JED MURPHEY jed@jmkhomes.net P: 206.714.4539

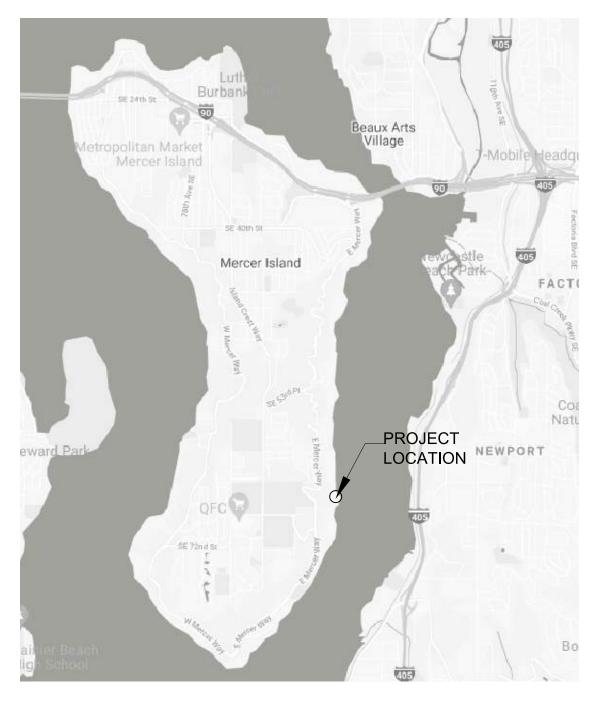
PROJECT MANAGER: DARWIN WEBB darw@darwinwebb.com P: 425.391.6946

PROJECT MANAGER: MARC McGINNIS marcm@geotechnw.com P: 425.260.1116

PROJECT MANAGER: CRAIG BACHMANN craig@tree133.com P 206 475 1924

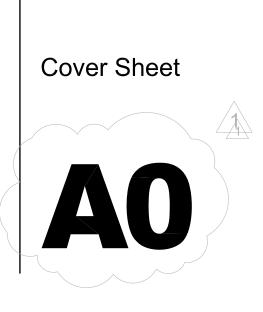
DRAWING INDEX					
SURVEY					
	BOUNDARY AND TOPOGRAPHIC SURVEY				
	BOUNDARY AND TOPOGRAPHIC SURVEY				
2012					
CIVIL					
C0.0	COVER				
C0.1	NOTES				
C1.0	EXISTING CONDITIONS				
C2.0	TESC PLAN				
C2.1	TESC DETAIL				
C3.0	STORM & GRADING PLAN				
C4.0	UTILITY PLAN				
C4.1	UTILITY DETAILS				
L1.0	TREE RETENTION PLAN				
LANDSC	APE				
L3.0	SHORELINE PLANTING PLAN				
ARCHITI	FCTURF				
A0	COVER SHEET & GENERAL NOTES				
A1	ARCH SITE PLAN				
A2	FOUNDATION PLAN				
A3	MAIN FLOOR PLAN				
A4	UPPER FLOOR FRAMING PLAN				
A5	UPPER FLOOR PLAN				
A6	LOWER ROOF FRAMING PLAN				
A7	CLERESTORY PLAN				
A8	UPPER ROOF FRAMING PLAN				
A9	ROOF DRAINAGE PLAN				
A10	EXTERIOR ELEVATIONS				
A11	EXTERIOR ELEVATIONS				
A12	BUILDING SECTIONS				
A13	BUILDING SECTIONS				
A15					
A16 A17	STAIR SECTIONS & DETAILS ARCHITECTURAL DETAILS				
STRUCT	URAL				
S1.0	GENERAL STRUCTURAL NOTES				
S3.0	TYPICAL CONCRETE DETAILS				
S3.1	CONCRETE DETAILS				
S4.0	TYPICAL WOOD FRAMING DETAILS				
S4.1	WOOD FRAMING DETAILS				
S4.2					
	STEEL FRAMING DETAILS				
S5.1	STEEL FRAMING DETAILS				

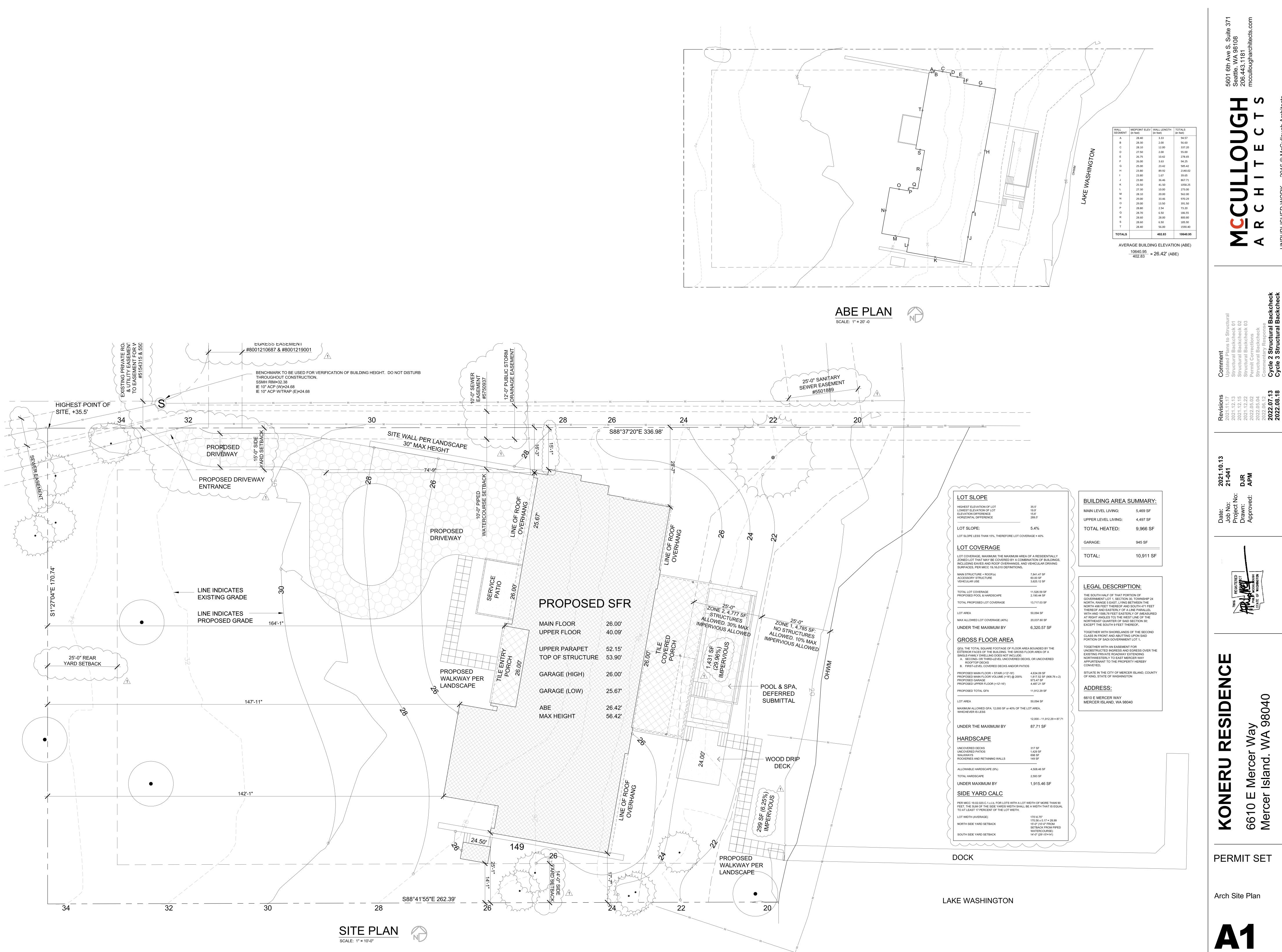
VICINITY MAP NTS

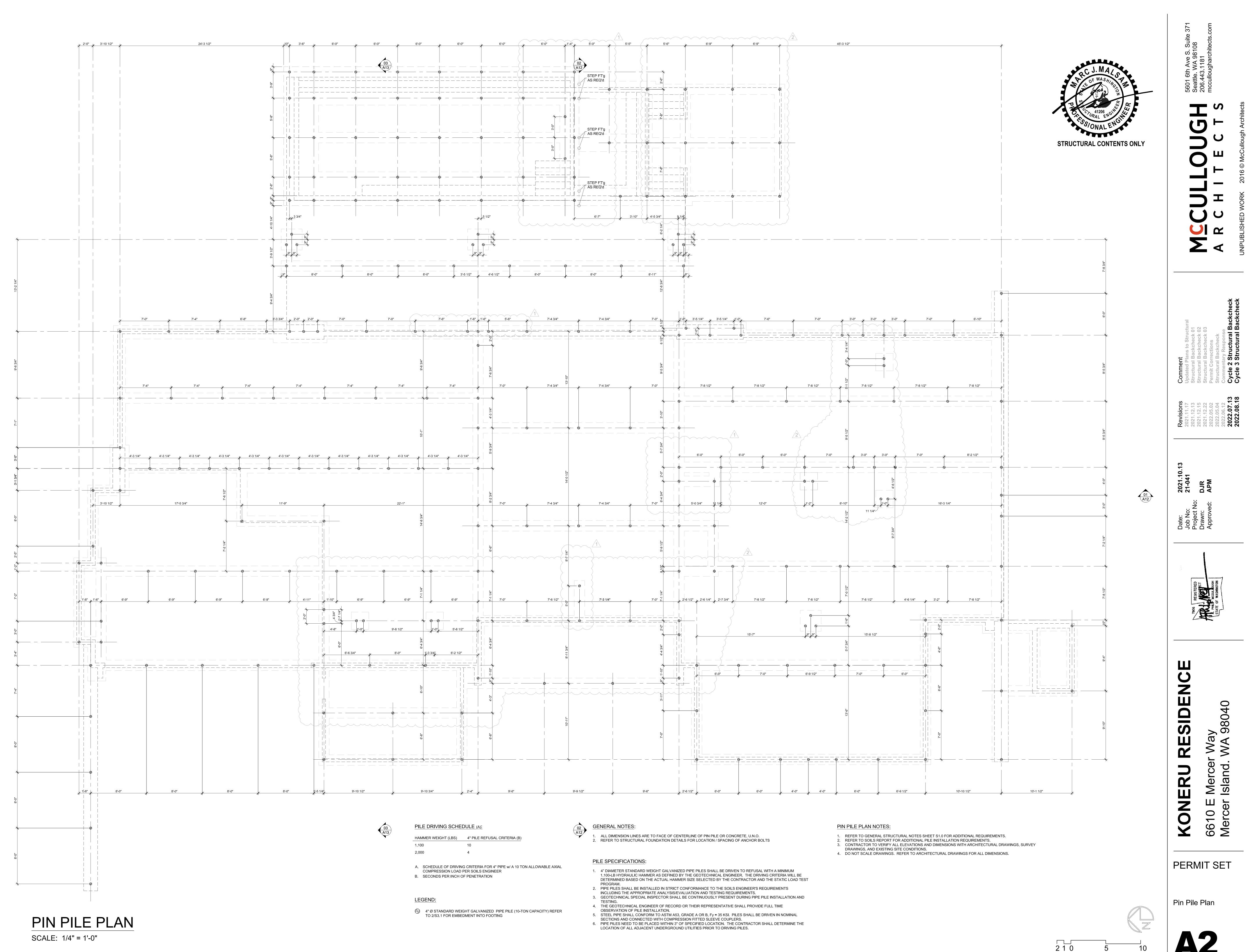




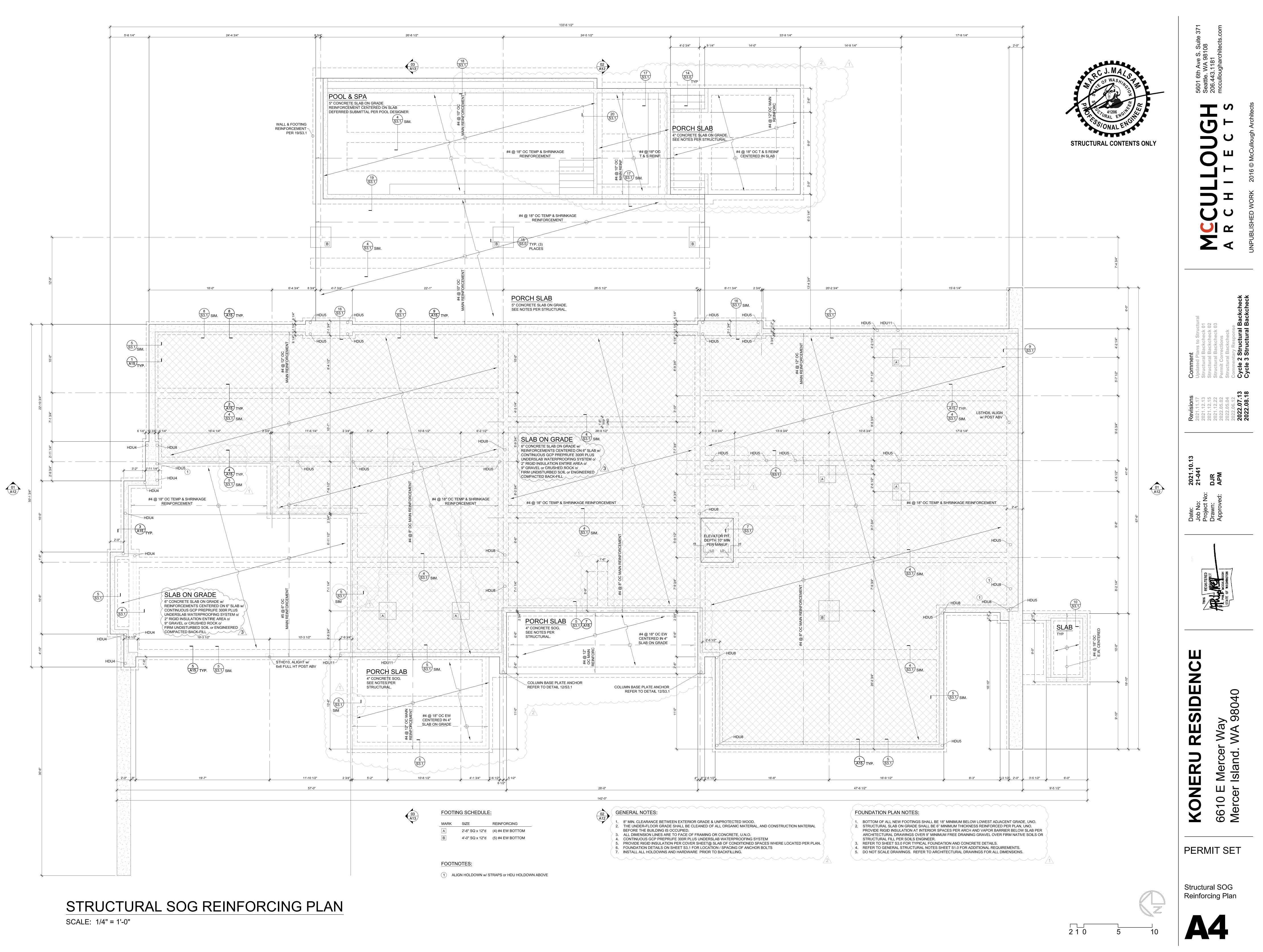


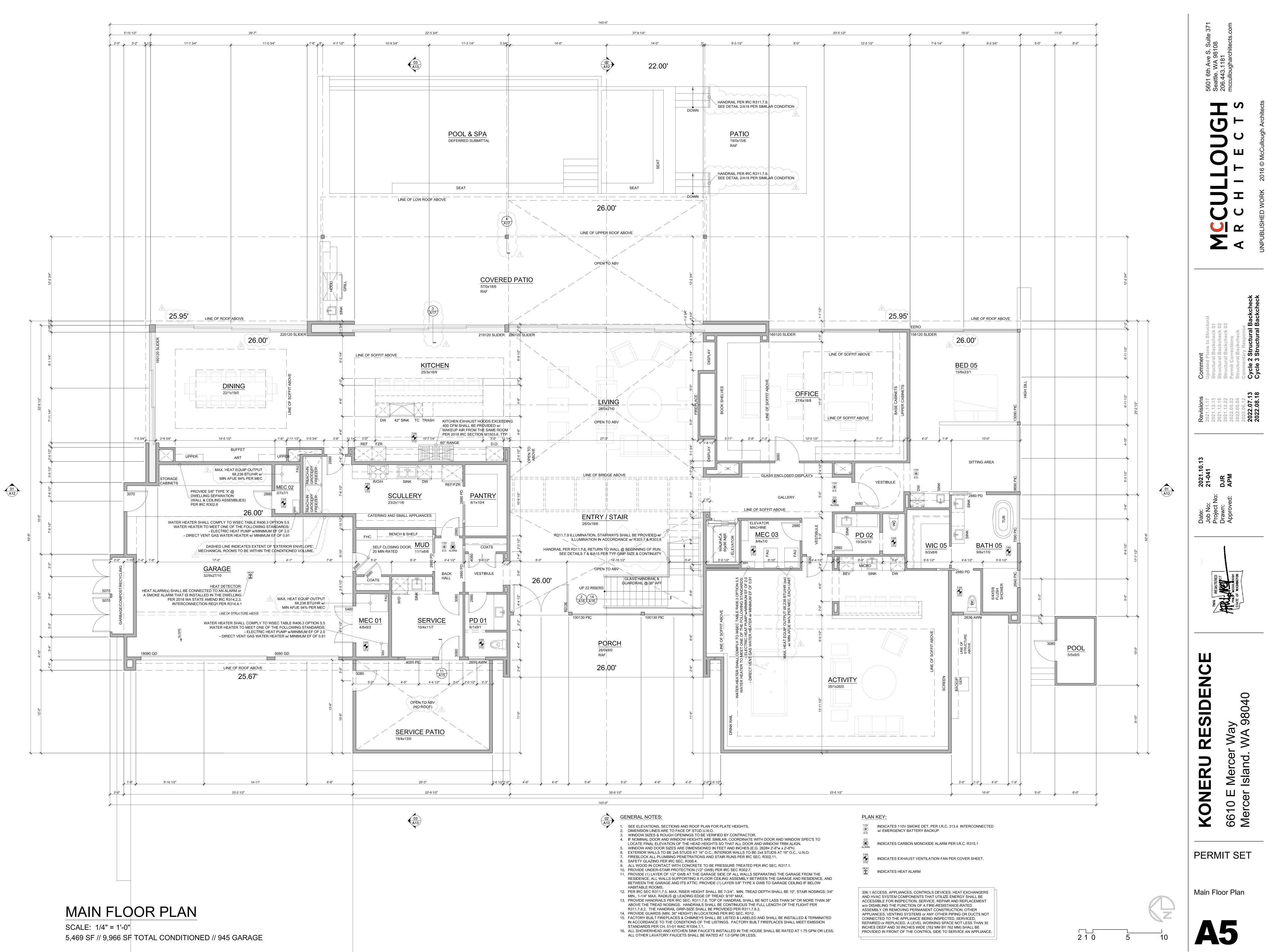




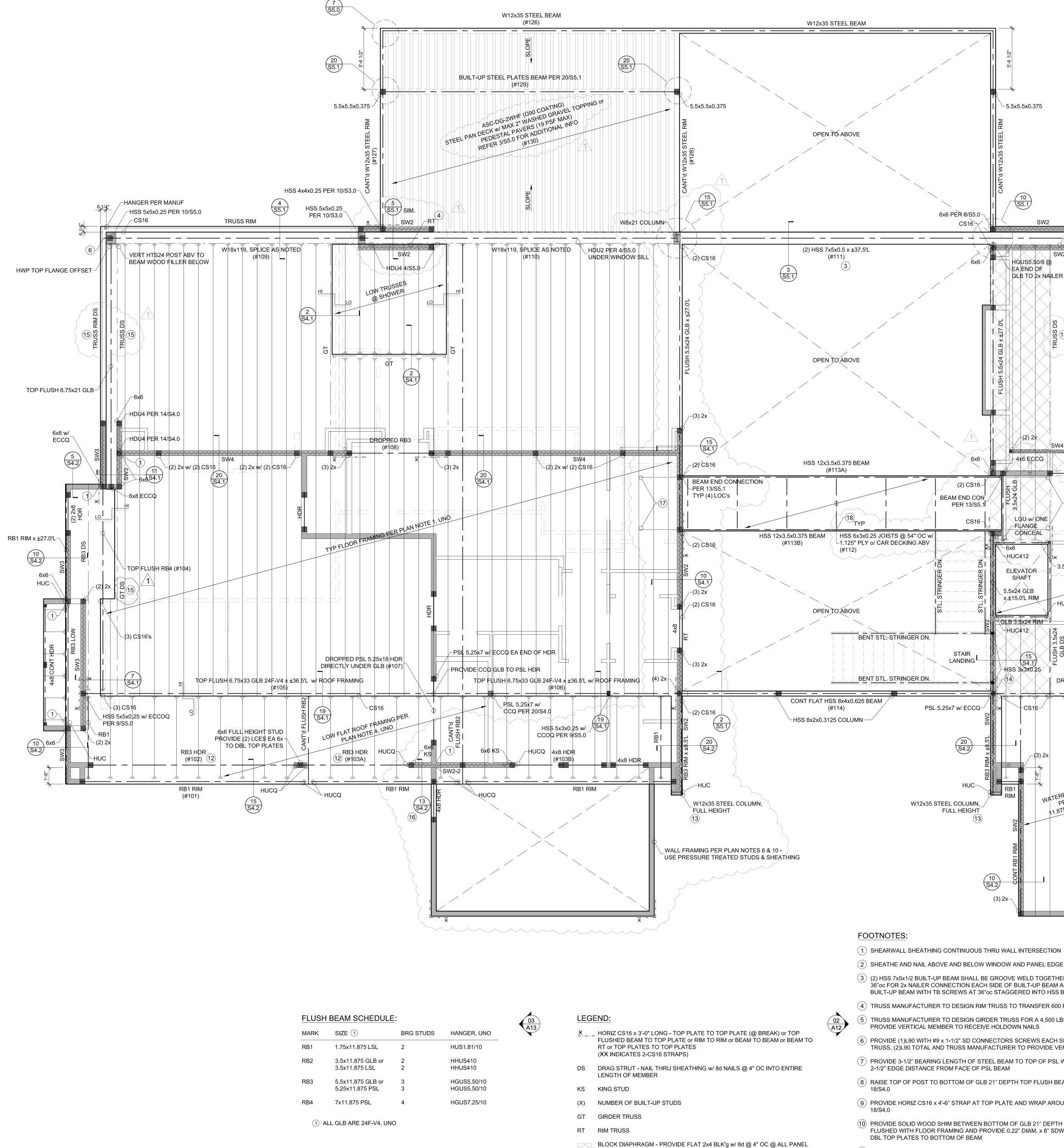








7 S5.0



UPPER FLOOR & LOW ROOF FRAMING PLAN

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



BEARING WALL

EDGES @ 8d @ 12" OC IN THE FIELD

INDICATES EXTENT OF SHEARWALL SEGMENT

12/S3.1

(14) POCKET BEAM INTO WALL WITH BUILT-UP 2x BEARING STUDS TO MATCH BEAM WIDTH AND (1)2x FULL HEIGHT STUD EACH SIDE WITH A35 EACH TOP AND BOTTOM

(12) PLACE GARAGE HEADER DIRECTLY ABOVE DOOR ROUGH OPENING (13) PROVIDE FULL HEIGHT SOLID WOOD FILLER AS REQUIRED FOR NAILER AND BOLT WITH 5/8" WTS AT 32" oc, REFER DETAIL

(11) PROVIDE SOLID WOOD SHIM BETWEEN BOTTOM OF GLB 21" DEPTH BEAM AND POST CAP AS REQUIRED TOP FLUSHED WITH FLOOR TRUSSES

(10) PROVIDE SOLID WOOD SHIM BETWEEN BOTTOM OF GLB 21" DEPTH BEAM AND DBL 2x6 TOP PLATES AS REQUIRED TO BE FLUSHED WITH FLOOR FRAMING AND PROVIDE 0.22" DIAM. x 8" SDWS TIMBER SCREWS AT 16"oc MAX, THRU UNDERSIDE OF DBL TOP PLATES TO BOTTOM OF BEAM

(7) PROVIDE 3-1/2" BEARING LENGTH OF STEEL BEAM TO TOP OF PSL WITH (2)1/2" DIAM. x 6" LAG BOLTS AT BEAM GAGE WITH 2-1/2" EDGE DISTANCE FROM FACE OF PSL BEAM (8) RAISE TOP OF POST TO BOTTOM OF GLB 21" DEPTH TOP FLUSH BEAM AND PROVIDE POST CAP PER PLAN, REFER DETAIL (9) PROVIDE HORIZ CS16 x 4'-6" STRAP AT TOP PLATE AND WRAP AROUND CENTERED ON POST PER PLAN, REFER DETAIL

TRUSS MANUFACTURER TO DESIGN GIRDER TRUSS FOR A 4,500 LBS (WIND/SEISMIC) POINT LOAD AT HOLDOWN AND PROVIDE VERTICAL MEMBER TO RECEIVE HOLDOWN NAILS (6) PROVIDE (1)L90 WITH #9 x 1-1/2" SD CONNECTORS SCREWS EACH SIDE OF STEEL BEAM SNUG FIT WOOD FILLER TO TRUSS, (2)L90 TOTAL AND TRUSS MANUFACTURER TO PROVIDE VERTICAL MEMBERS TO RECEIVE L90 FASTENERS

(2) SHEATHE AND NAIL ABOVE AND BELOW WINDOW AND PANEL EDGE NAIL AROUND OPENING PER SHEARWALL SCHEDULE (3) (2) HSS 7x5x1/2 BUILT-UP BEAM SHALL BE GROOVE WELD TOGETHER TOP AND BOTTOM AND PROVIDE 1/2" DIAM. WTS AT 36"oc FOR 2x NAILER CONNECTION EACH SIDE OF BUILT-UP BEAM AND USE 5/4" WOOD NAILER TOP AND BOTTOM OF BUILT-UP BEAM WITH TB SCREWS AT 36"oc STAGGERED INTO HSS BEAMS, PRE-DRILL AS REQUIRED (4) TRUSS MANUFACTURER TO DESIGN RIM TRUSS TO TRANSFER 600 PLF LATERALLY FROM TOP TO BOTTOM CHORD

─5.5x5.5x0.375

SW2

HGUS5.50/8 @

GLB TO 2x NAILER

HEA END OF

LGU w/JØN

FUANGE CONCER

∖≺HUC412

ELEVATOR

SĤA∕FT

5.5x24 GLB

x∕±15.0'L RIM

GLB 3.5x24 RIM HUC412

HSS 3x3x0.25

6x6 PER 8/S5.0

CS16

(2) CS16–

CS16

BEAM END CON PER 13/S5.1

STAIR

LANDING

20 S4.2

HUC

10 S4.2

(3) 2x-

FULL HEIGHT

PSL 5.25x7 w/ ECCQ-/

W12x35 STEEL COLUMN,

_5.5x24 GLB x ±1.66'L RIM

HHGU W/ ONE FLANGE

-CONCEALED ABOVE. 6x6 STUD BELOW

ONT DROPPED 7x16 PSL BEAM x ±24.5

<u>(14)</u>

4/S5.0

-3.5x24 GLB x ±6.0′Ц RIM

DROPPED 7x18 PSL

(#125)

-HUC412

(3) CS16-

RIM TRUSS

(#115) 🖊

HDU4 PEF

HGUS7.25/12

∖_(2) CS16

DROPPED P\$L 5.25x16 (#120)-

--PSL 5.25x7 w/ ECCQ

DROPPED 7x18 PSL

(#124)

CANT'd GT (15" @ CANT)

FOOTNOTES cont:

DEPTH OF 24".

360's AT 16"oc, UNO.

THE FIELD, UNO.

AND AT 12"oc IN THE FIELD, UNO.

ALL MULTIPLE RAFTERS, UNO.

PSL 5.25x7

w/ C¢Q

4/S5.0

SW2

RIM TRUSS

6x6 w/ ECCLRQ (11)

5.5x24 24F-V4 GLB

CANT'd BOTTOM FLUSH

GIRDER TRUSS

(#119B)

-(2) C\$16

GIRDER TRUSS

6x8 w/ ECCQ

CS16+

(4) 2x+

2) HTS16 GT TO (#116)

w/ HUC612 EA END

 $\begin{pmatrix} 02\\ A12 \end{pmatrix}$

SUPPORTS BELOW, UNO.

10. TYPICAL WALL FRAMING CONSISTS OF 2x4'S OR 2x6's AT 16" oc AT EXTERIOR WALLS AND 2x4's OR 2x6's AT

16"oc AT INTERIOR WALLS PER ARCH DRAWINGS, UNO.

11. REFER TO SHEET S4.0 FOR TYPICAL WOOD FRAMING DETAILS.

13. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.

6'-0" IN LENGTH AND OVER, UNO. 9. WHERE POSTS OCCUR PROVIDE SOLID VERTICAL GRAIN BLOCKING SOLID THRU FLOOR TO MATCHING

12. REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0 FOR ADDITIONAL REQUIREMENTS.

FOR ADDITIONAL REQUIREMENTS.

7) PROVIDE DTT2Z @ THIRD FLOOR TRUSS BAY PER DETAIL 13/S5.1

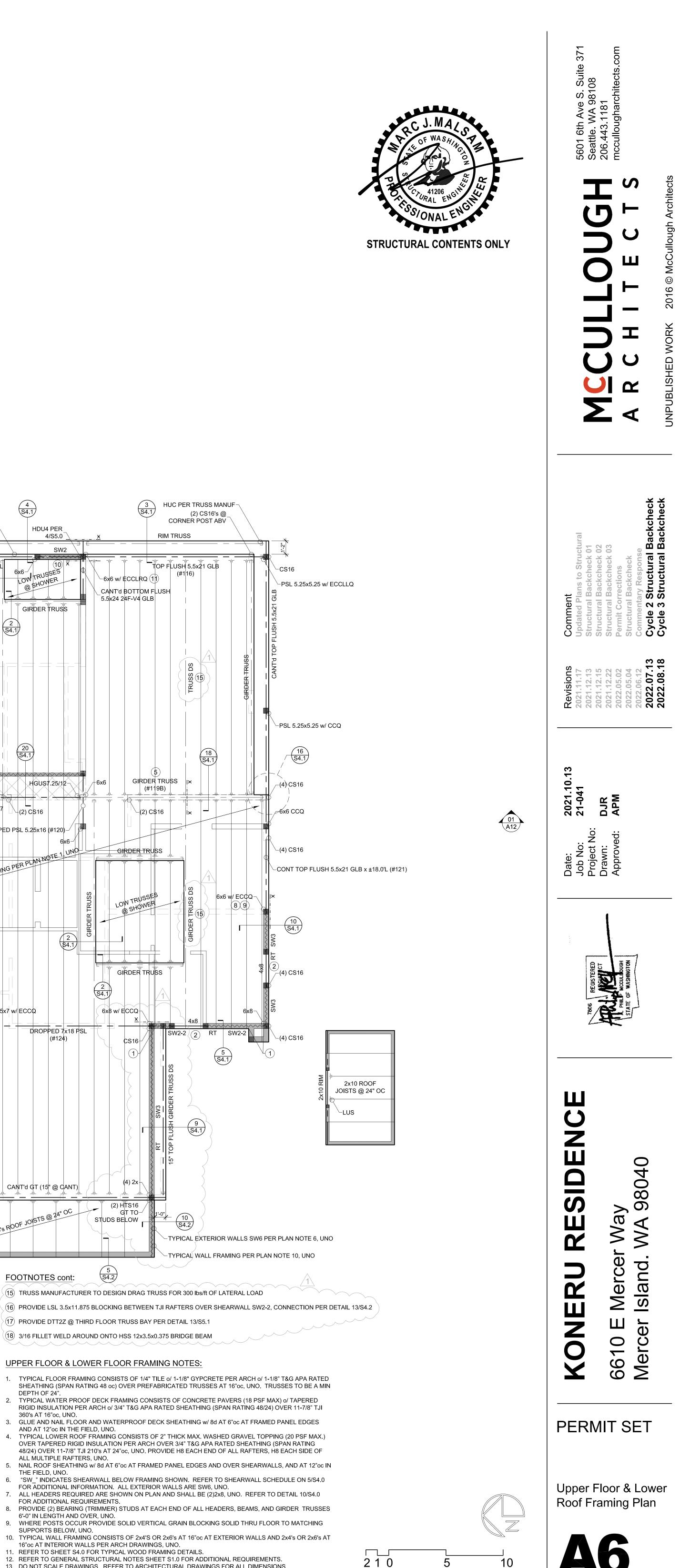
(18) 3/16 FILLET WELD AROUND ONTO HSS 12x3.5x0.375 BRIDGE BEAM

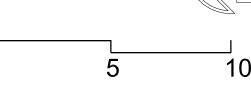
UPPER FLOOR & LOWER FLOOR FRAMING NOTES:

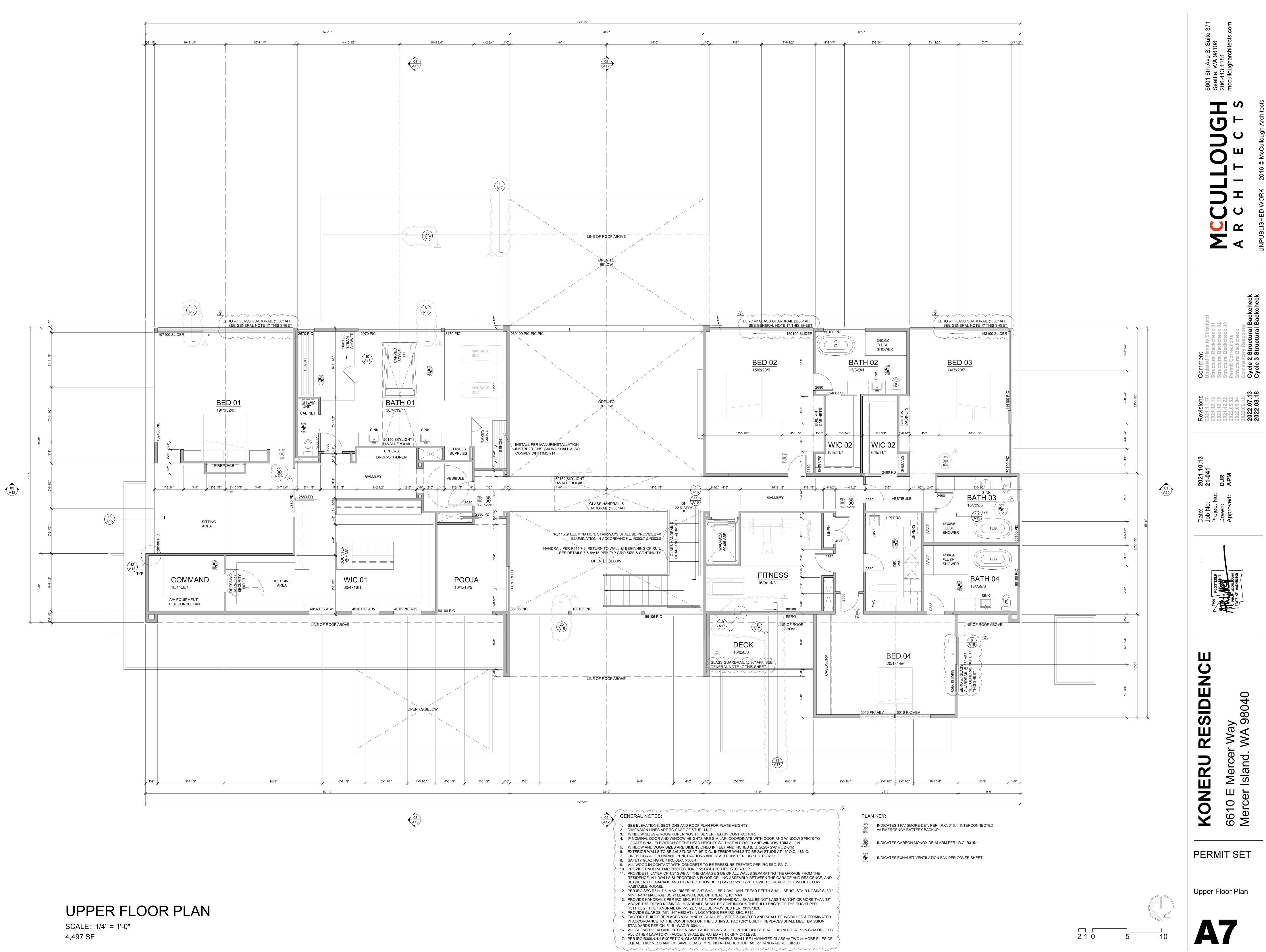
7. ALL HEADERS REQUIRED ARE SHOWN ON PLAN AND SHALL BE (2)2x8, UNO. REFER TO DETAIL 10/S4.0

8. PROVIDE (2) BEARING (TRIMMER) STUDS AT EACH END OF ALL HEADERS, BEAMS, AND GIRDER TRUSSES

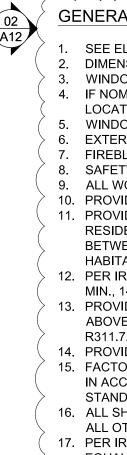
FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS ARE SW6, UNO.









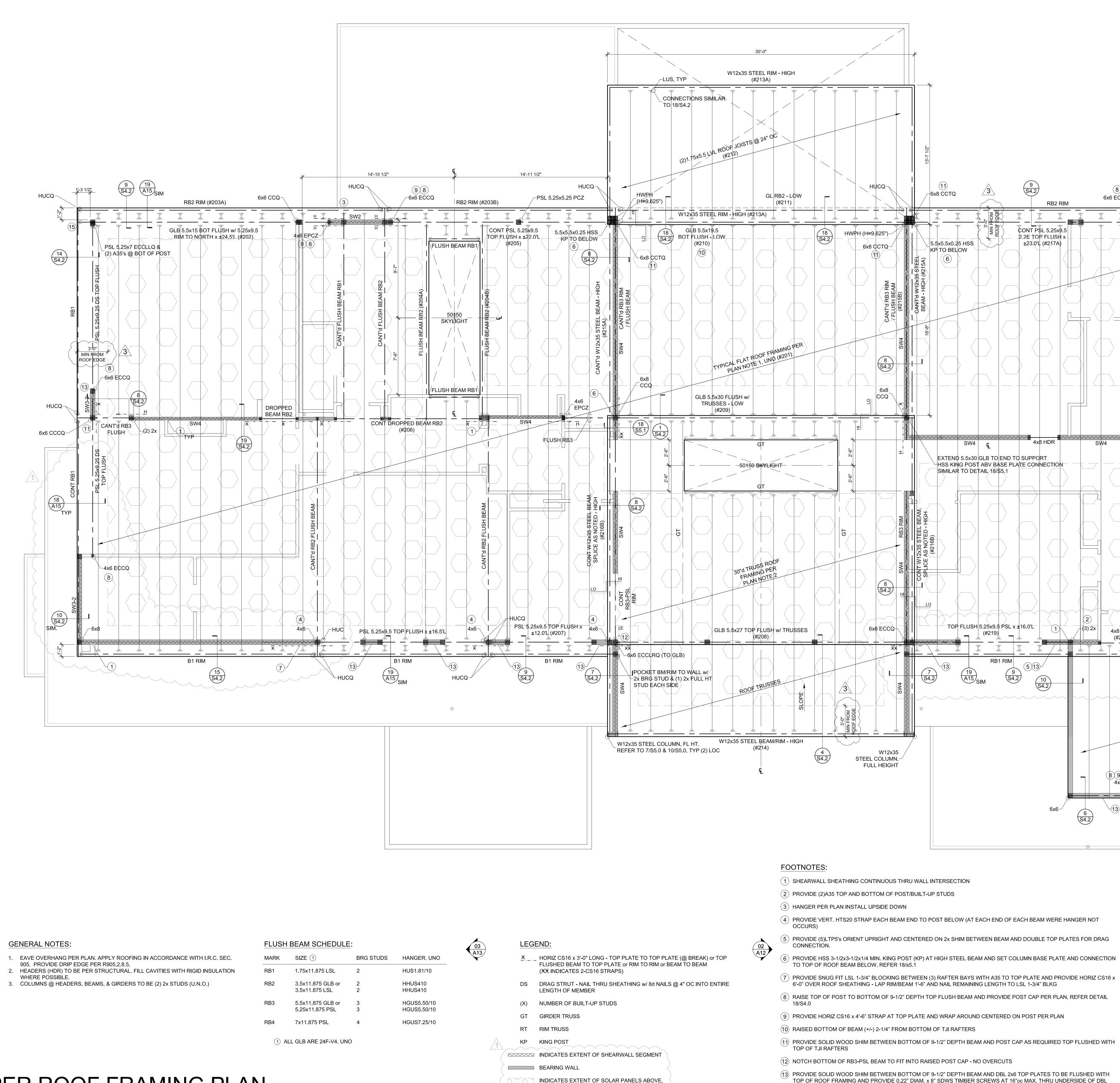


UPPER ROOF FRAMING PLAN

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

WHERE POSSIBLE.

MARK RB2 RB3 RB4



5 PSF MAX. SEE LAYOUT PER SOLAR DESIGNER.

01 A12

HWPH (H=9.625")

бх8 ¢СтQ-⁄

6x8

6x6/ECCQ

W12x35

STEEL COLUMN,~

FULL HEIGHT

S4.2

5.5x5.5x0.25 HSS

KP TO BELOW

TOP OF TJI RAFTERS (12) NOTCH BOTTOM OF RB3-PSL BEAM TO FIT INTO RAISED POST CAP - NO OVERCUTS

(11) PROVIDE SOLID WOOD SHIM BETWEEN BOTTOM OF 9-1/2" DEPTH BEAM AND POST CAP AS REQUIRED TOP FLUSHED WITH

CONT P\$L 5.25x9.5 2.2E TOP FLUSH x ±23.0'L (#217A)

4x8 HDR

SW4 | G

EXTEND 5.5x30 GLB TO END TO SUPPORT HSS KING POST ABV BASE PLATE CONNECTION SIMILAR TO DETAIL 18/\$5,1

TOP FLUSH|5.25x9.5 ₱SL x ±16.0'L

9 S4.2

(10 (S4.2)

6x6-⁄

 $\begin{pmatrix} 6\\ \$4.2 \end{pmatrix}$

RB1 RIM

(13) PROVIDE SOLID WOOD SHIM BETWEEN BOTTOM OF 9-1/2" DEPTH BEAM AND DBL 2x6 TOP PLATES TO BE FLUSHED WITH TOP OF ROOF FRAMING AND PROVIDE 0.22" DIAM. x 8" SDWS TIMBER SCREWS AT 16" oc MAX, THRU UNDERSIDE OF DBL TOP PLATES CENTERED INTO BOTTOM OF BEAM, (2) SDWS SCREWS MIN. EACH WALL PANEL (14) PROVIDE SOLID WOOD SHIM BETWEEN BOTTOM OF 9-1/2" DEPTH BEAM AND DBL 2x6 TOP PLATES TO BE FLUSHED WITH TOP OF ROOF FRAMING AND PROVIDE 0.22" DIAM. x 8" SDWS TIMBER SCREWS AT 8" oc MAX, THRU UNDERSIDE OF DBL TOP

PLATES CENTERED INTO BOTTOM OF BEAM

(15) PROVIDE LS70 EACH FACE, (2) TOTAL WITH #9 x 1-1/2" SD CONNECTOR SCREWS IN LIEU OF NAILS

ROOF FRAMING NOTES:

4x8 HDR 4x8 HDR

4x6 EPC-

4x6 EPC-

(#221)

 \rightarrow

(2) 2x PCZ

CONT PSL 5.25x9.5 TOP FLUSH w/ TJI's

RB1 RIM

S4.2

4x8 HDR (#220)

4x6

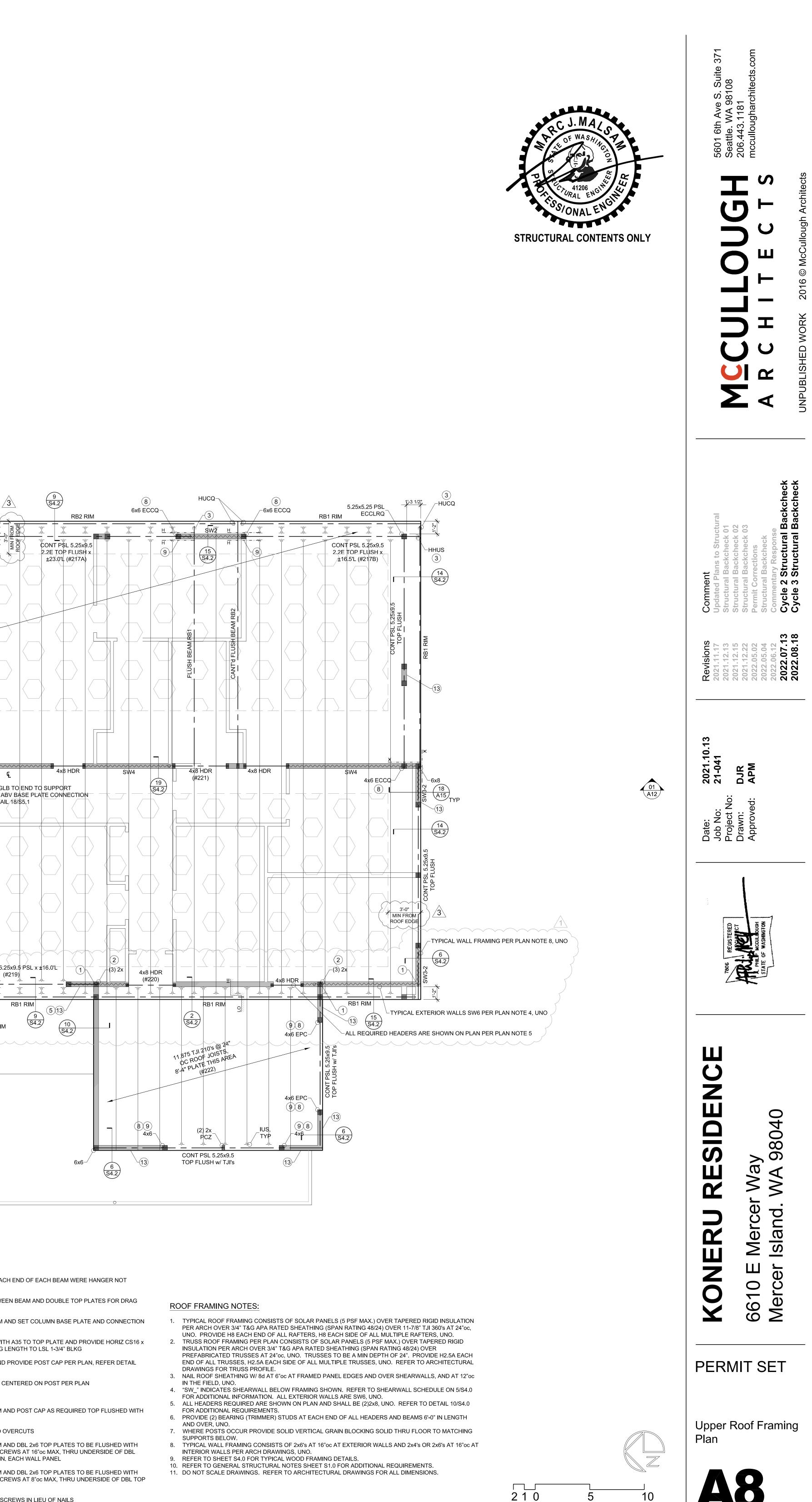
\$W4

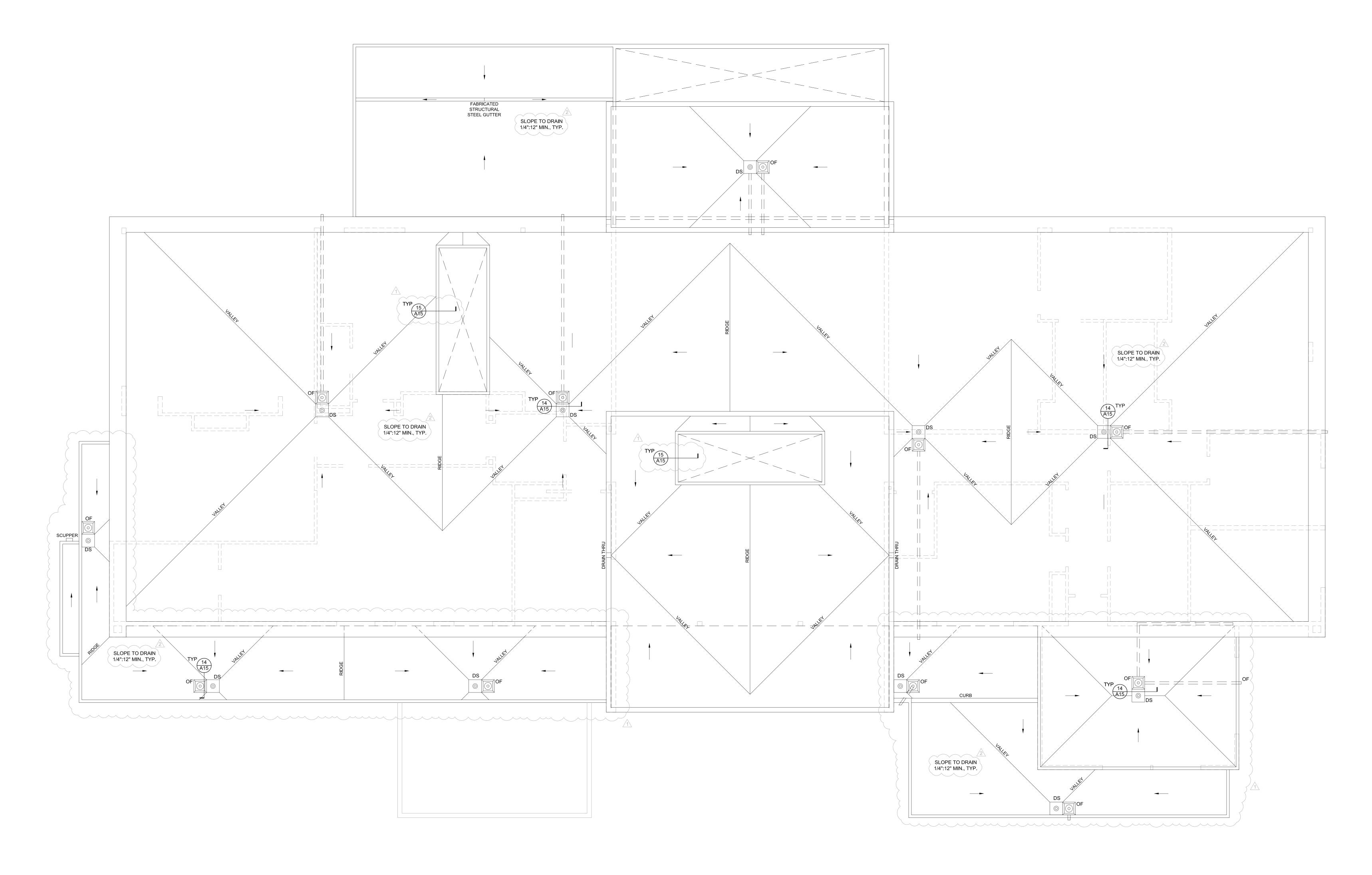
- TYPICAL ROOF FRAMING CONSISTS OF SOLAR PANELS (5 PSF MAX.) OVER TAPERED RIGID INSULATION PER ARCH OVER 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER 11-7/8" TJI 360's AT 24" oc, UNO. PROVIDE H8 EACH END OF ALL RAFTERS, H8 EACH SIDE OF ALL MULTIPLE RAFTERS, UNO. TRUSS ROOF FRAMING PER PLAN CONSISTS OF SOLAR PANELS (5 PSF MAX.) OVER TAPERED RIGID
- INSULATION PER ARCH OVER 3/4" T&G APA RATED SHEATHING (SPAN RATING 48/24) OVER
- PREFABRICATED TRUSSES AT 24" oc, UNO. TRUSSES TO BE A MIN DEPTH OF 24". PROVIDE H2.5A EACH
- END OF ALL TRUSSES, H2.5A EACH SIDE OF ALL MULTIPLE TRUSSES, UNO. REFER TO ARCHITECTURAL DRAWINGS FOR TRUSS PROFILE.
- 3. NAIL ROOF SHEATHING W/ 8d AT 6"oc AT FRAMED PANEL EDGES AND OVER SHEARWALLS, AND AT 12"oc
- IN THE FIELD, UNO.

- 5. ALL HEADERS REQUIRED ARE SHOWN ON PLAN AND SHALL BE (2)2x8, UNO. REFER TO DETAIL 10/S4.0
- 4. "SW_" INDICATES SHEARWALL BELOW FRAMING SHOWN. REFER TO SHEARWALL SCHEDULE ON 5/S4.0

- FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS ARE SW6, UNO.
- FOR ADDITIONAL REQUIREMENTS.

- 6. PROVIDE (2) BEARING (TRIMMER) STUDS AT EACH END OF ALL HEADERS AND BEAMS 6'-0" IN LENGTH
- AND OVER, UNO.
- 7. WHERE POSTS OCCUR PROVIDE SOLID VERTICAL GRAIN BLOCKING SOLID THRU FLOOR TO MATCHING
- SUPPORTS BELOW. 8. TYPICAL WALL FRAMING CONSISTS OF 2x6's AT 16" oc AT EXTERIOR WALLS AND 2x4's OR 2x6's AT 16" oc AT
- INTERIOR WALLS PER ARCH DRAWINGS, UNO. 9. REFER TO SHEET S4.0 FOR TYPICAL WOOD FRAMING DETAILS.
- 10. REFER TO GENERAL STRUCTURAL NOTES SHEET S1.0 FOR ADDITIONAL REQUIREMENTS.





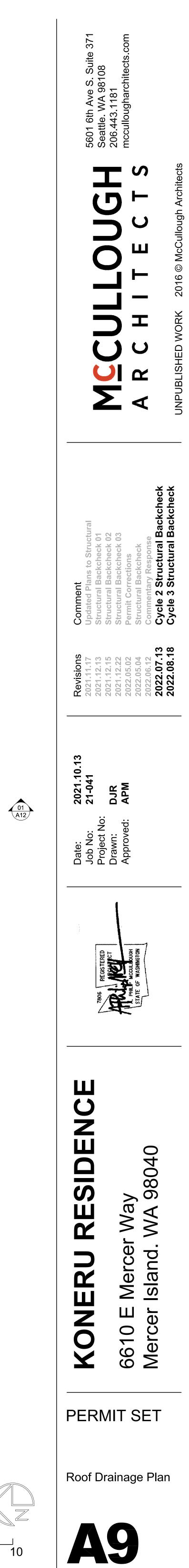
02 A12

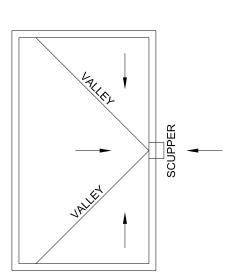


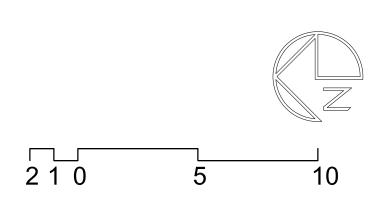
SCALE: 1/4" = 1'-0"

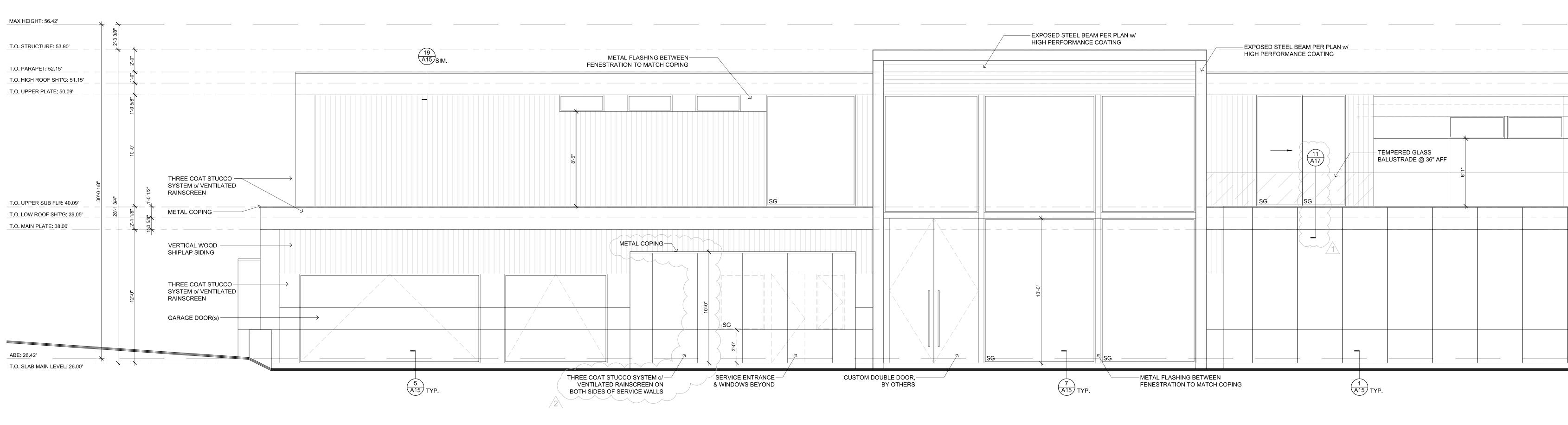
01 A12

03 A13 02 A12

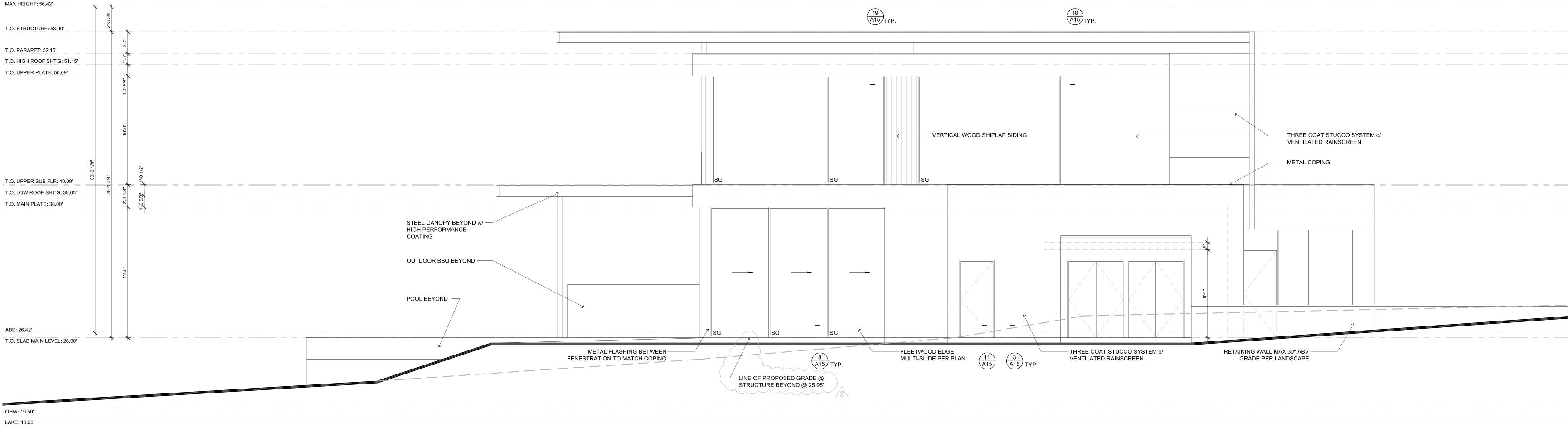








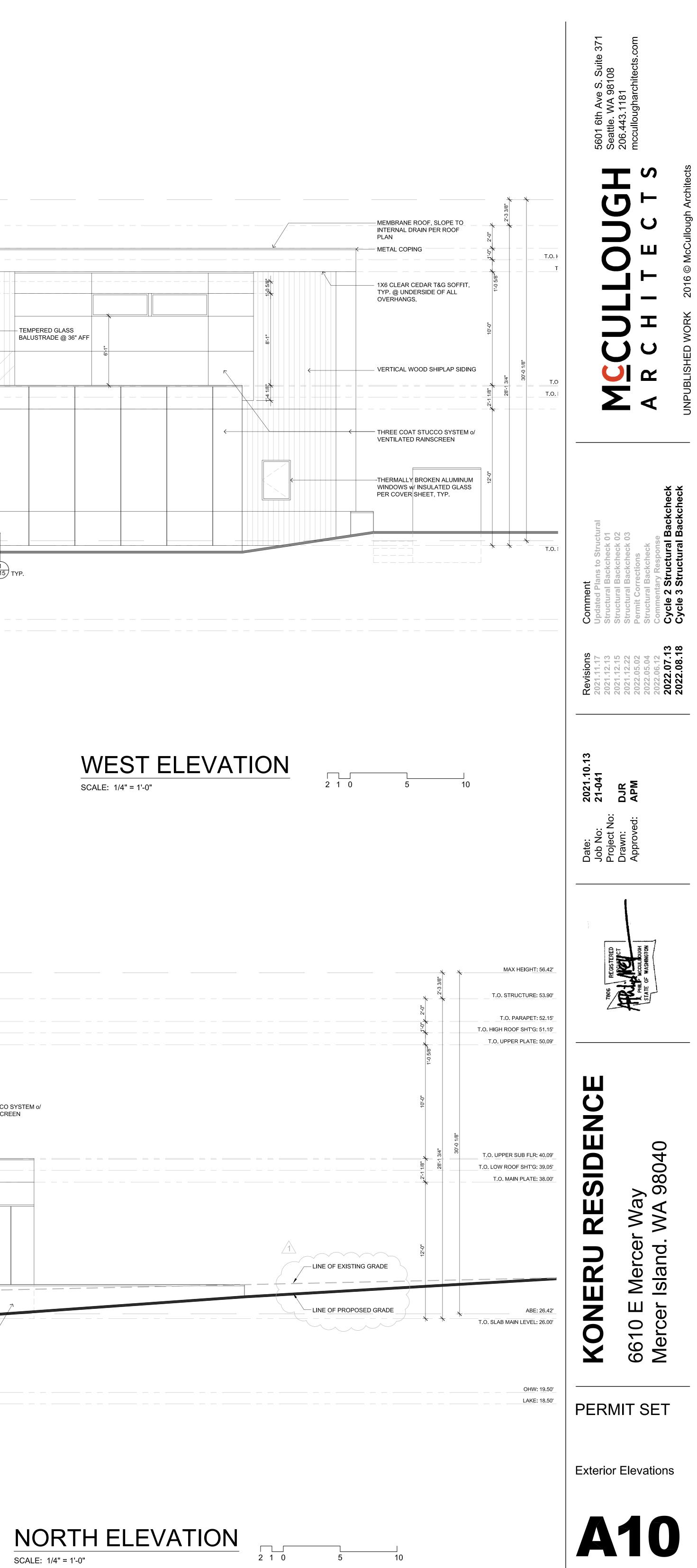
OHW: 19.50' LAKE: 18.50'

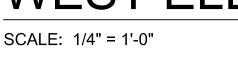


03 A13

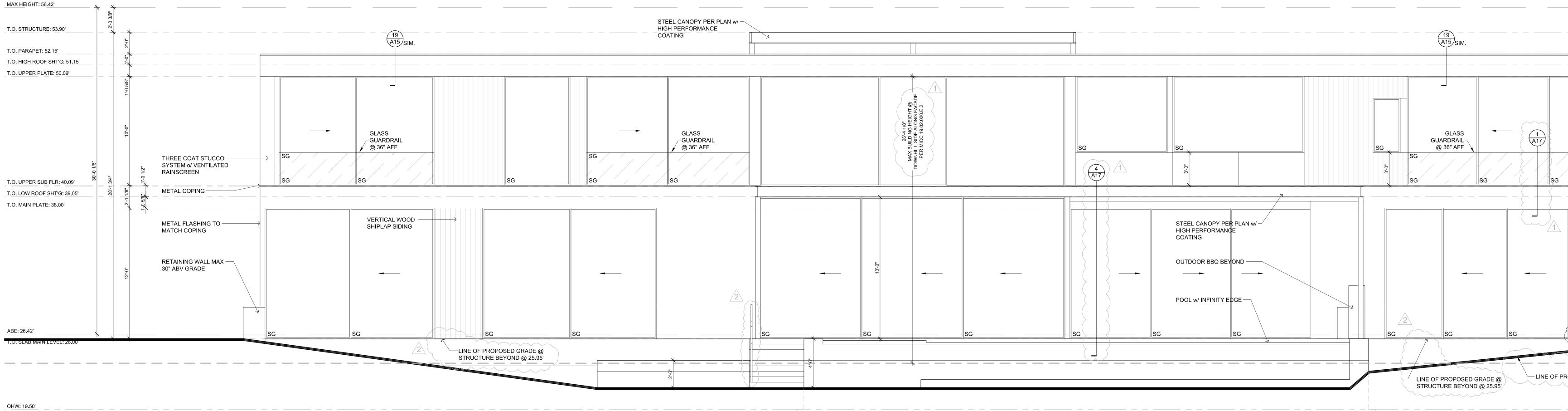


A12 01

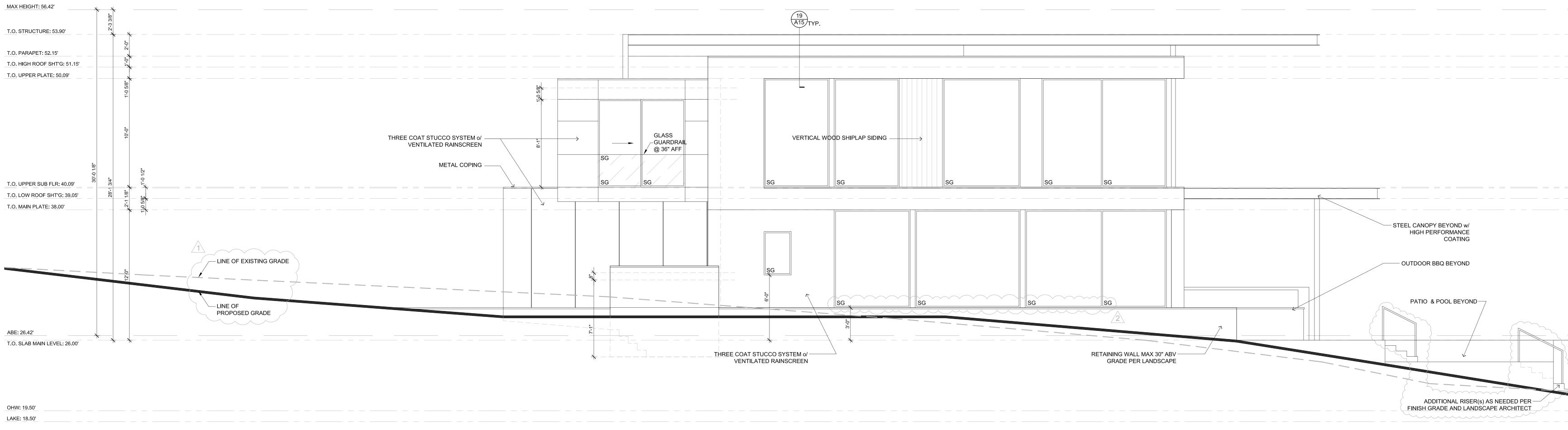




02 A12



LAKE: 18.50'



(02) (A12)

(01) (A12)

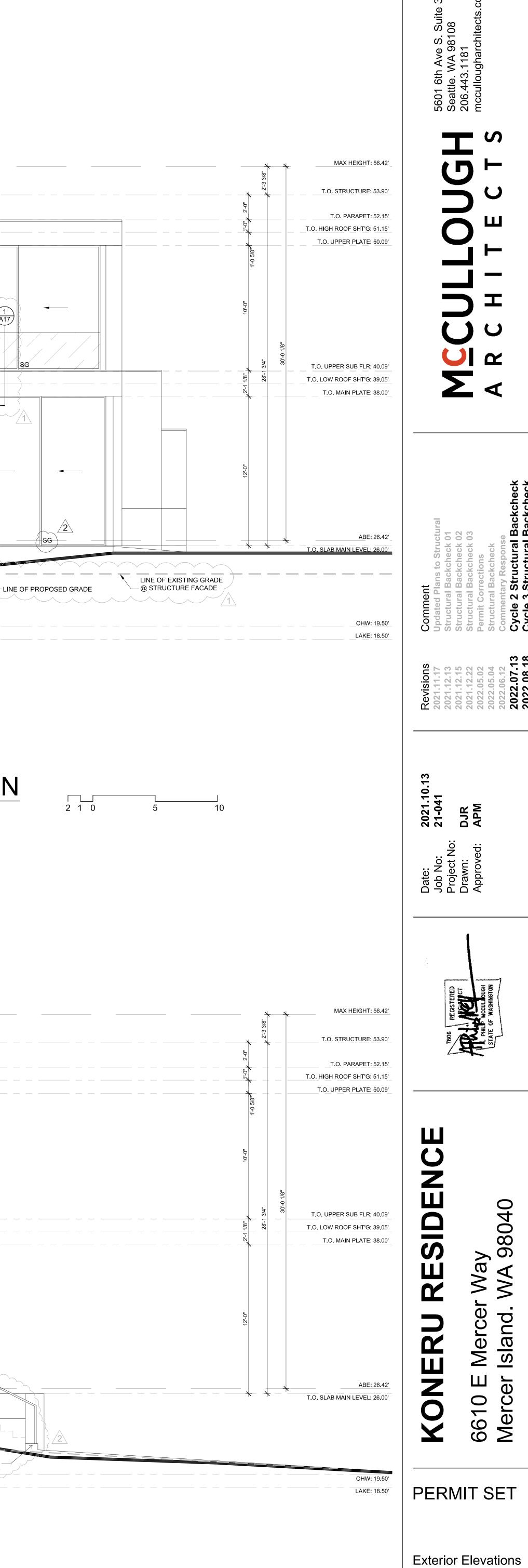
A12 01

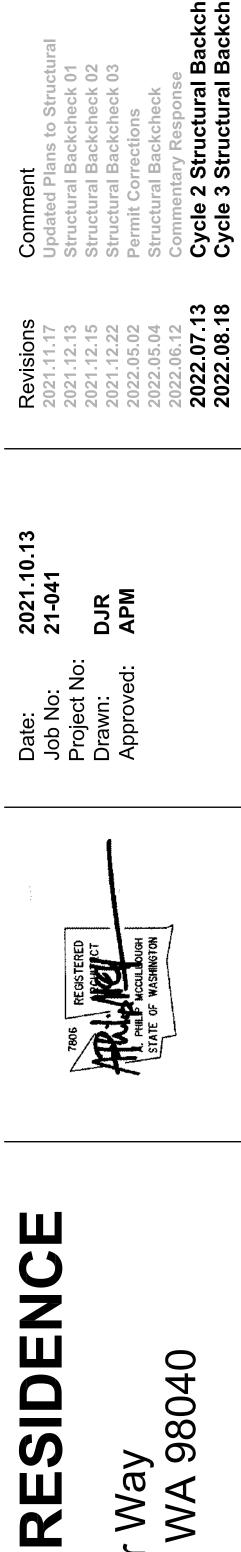
 $\begin{pmatrix} A13\\ 03 \end{pmatrix}$

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



03 A13





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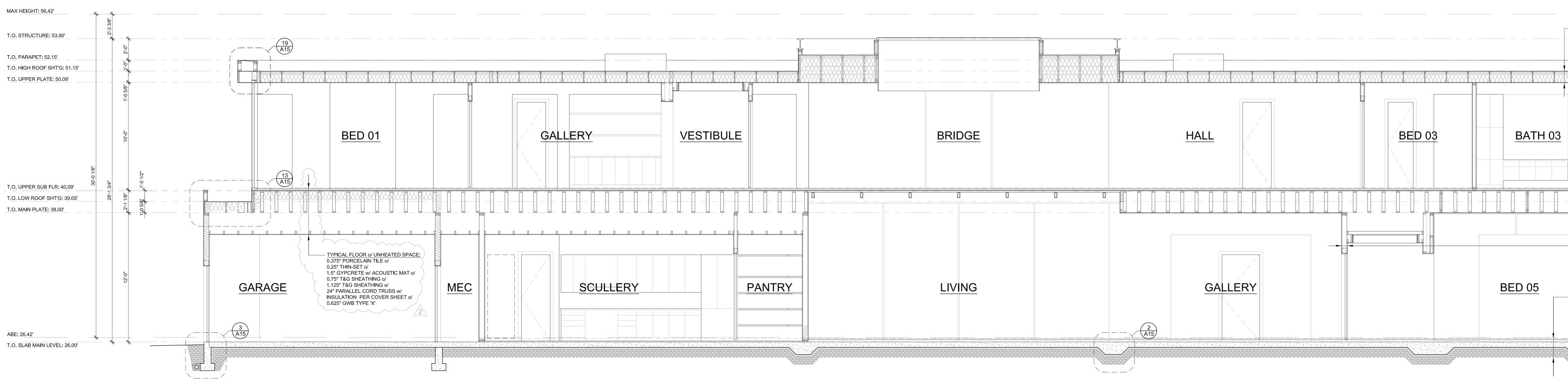
Merce Island.

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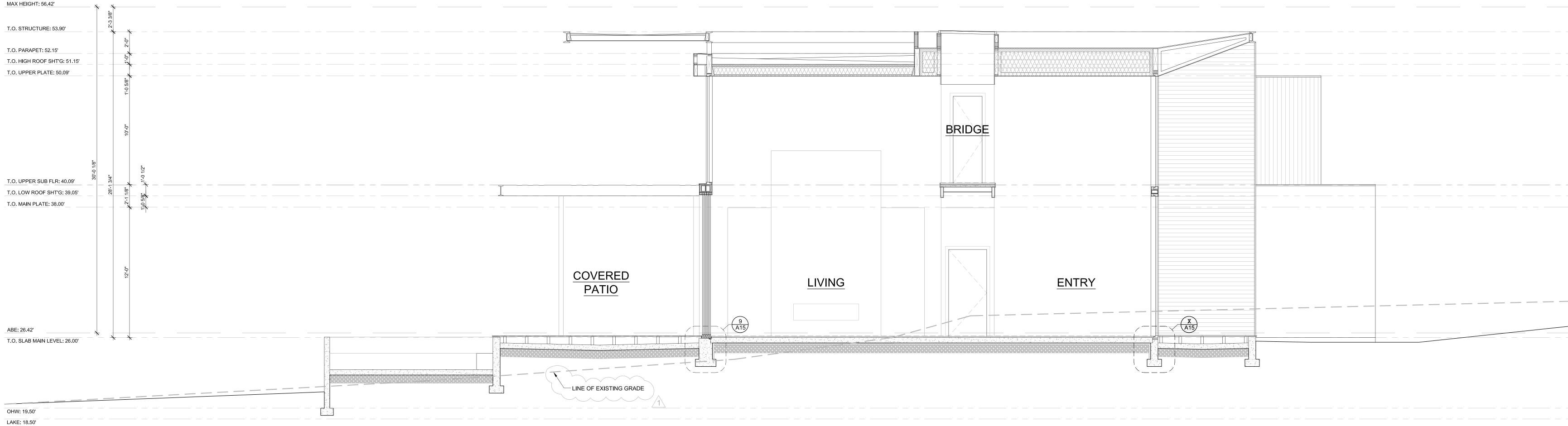
6610 Merce

2 1 0

10



OHW: 19.50' LAKE: 18.50'



03 A13

A13 03

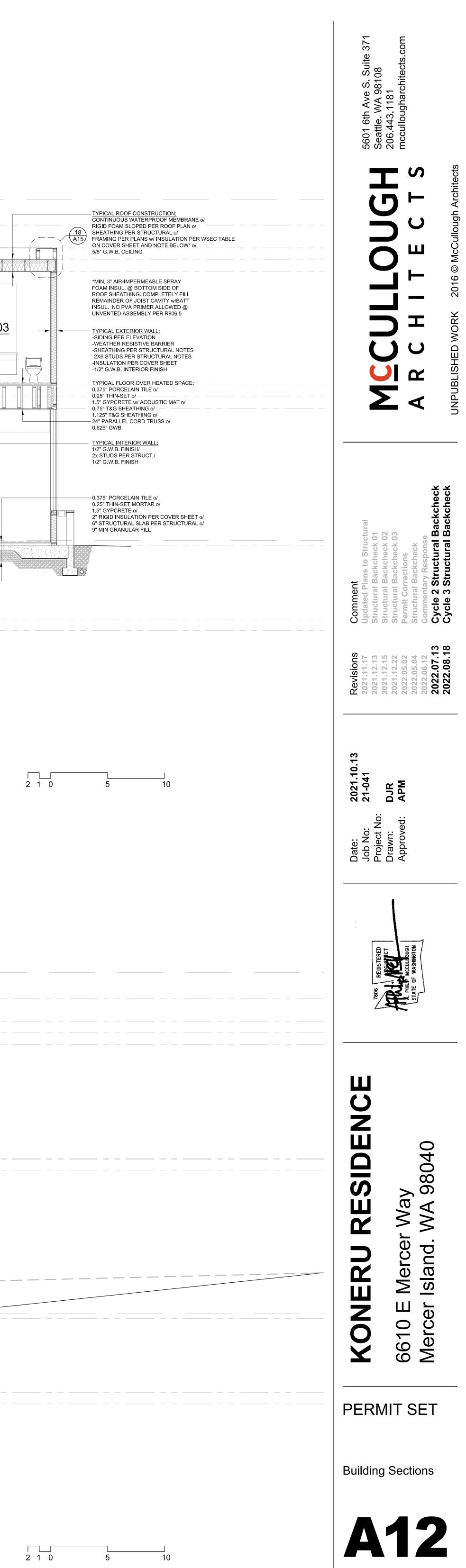
A12 02

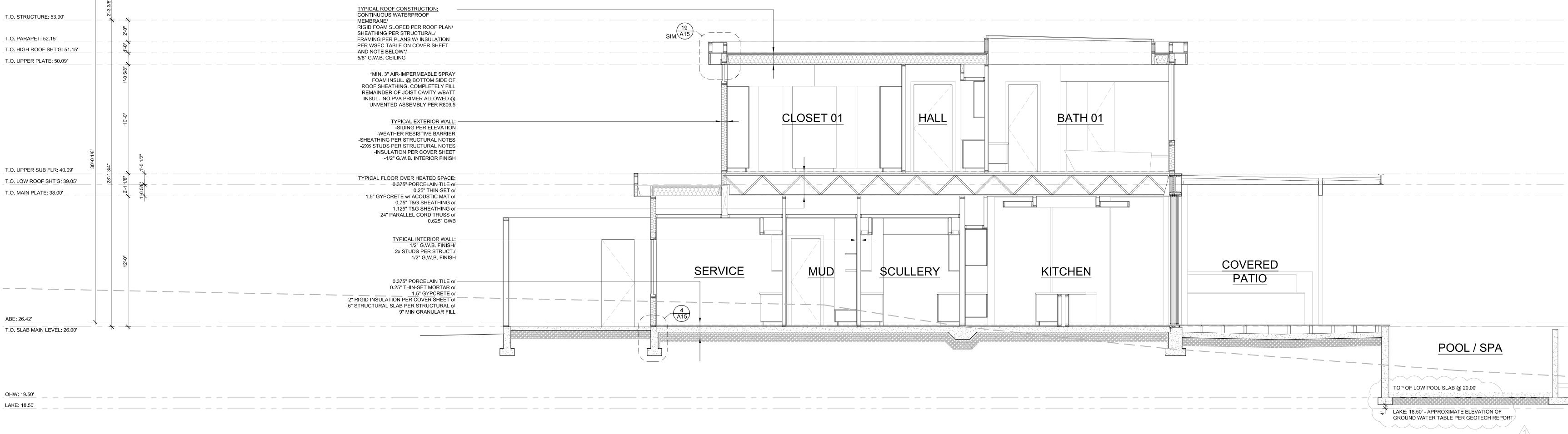
02

01 A12

A12 01 **SECTION 01** SCALE: 1/4" = 1'-0"



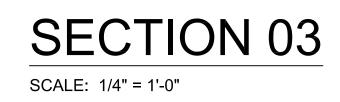


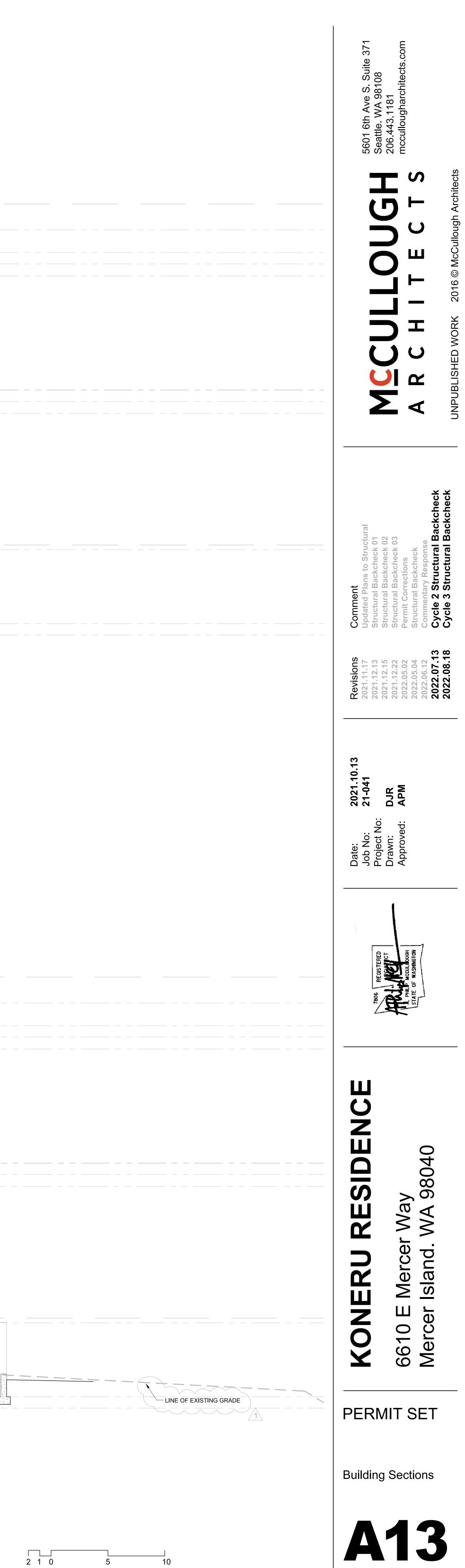


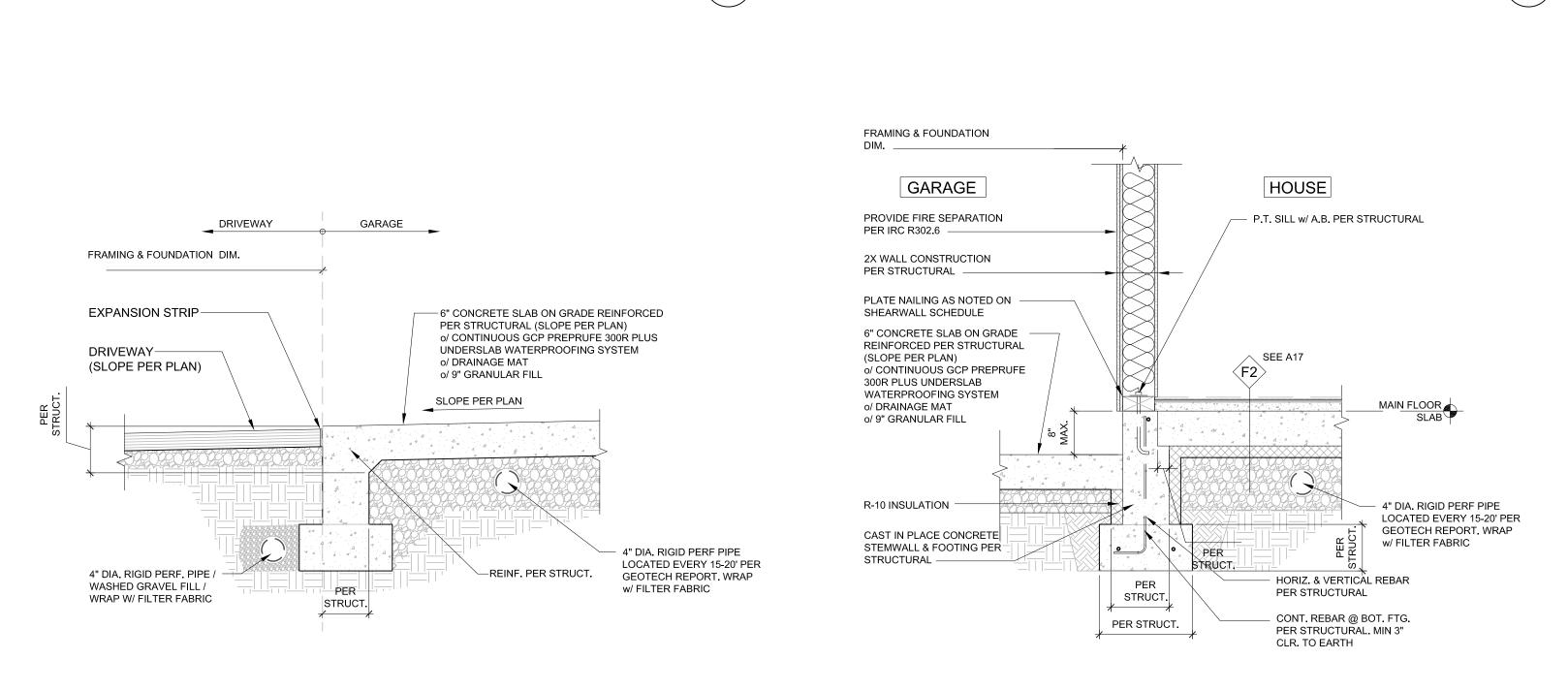
MAX HEIGHT: 56.42'

01 A12

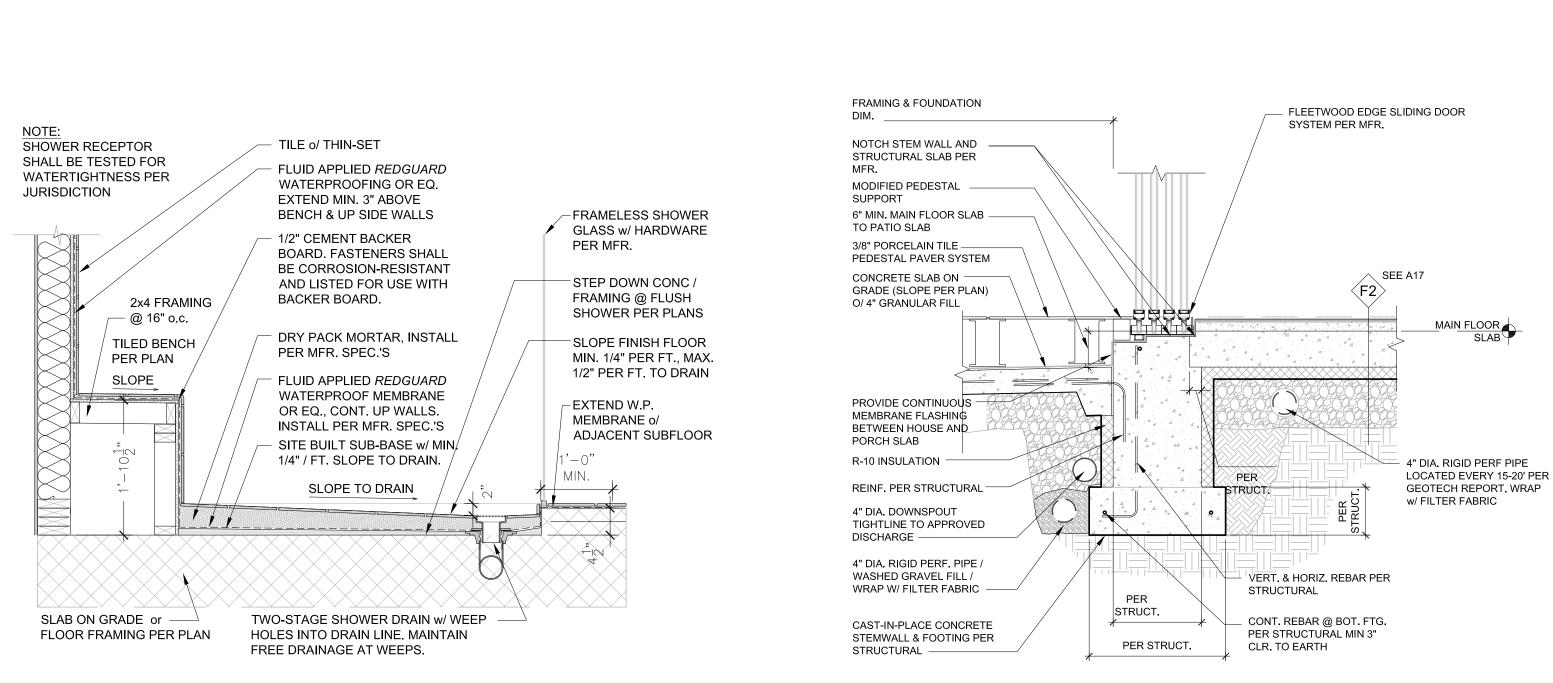
A12 01







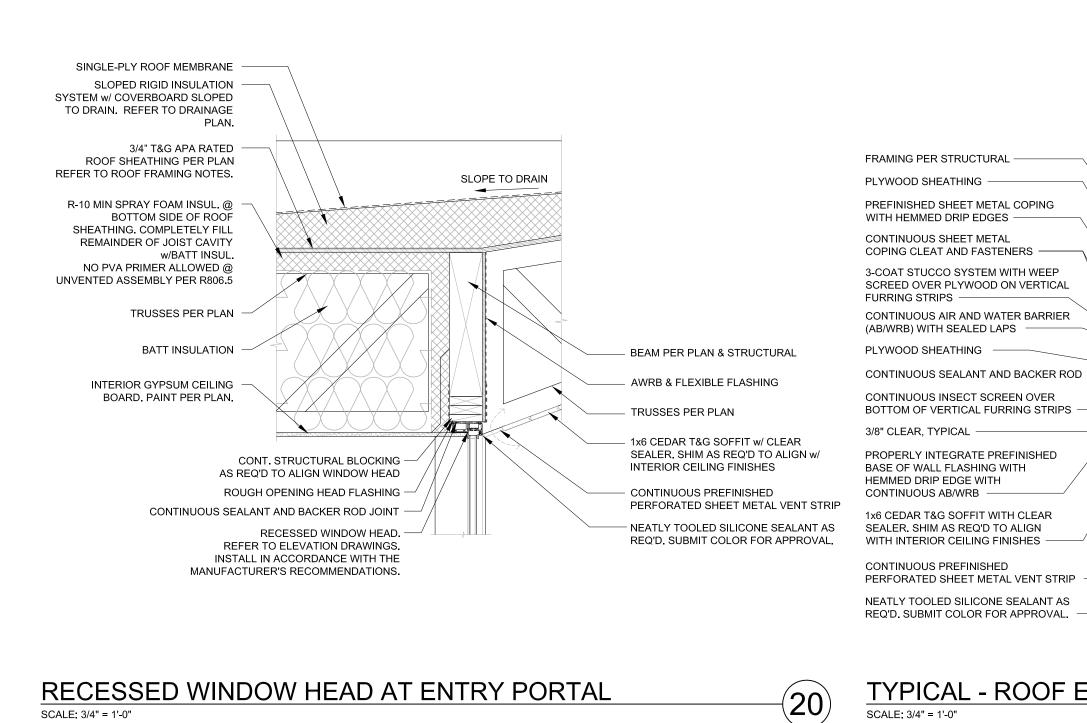
RECESSED MUD SET SHOWER SCALE: 3/4" = 1'-0"

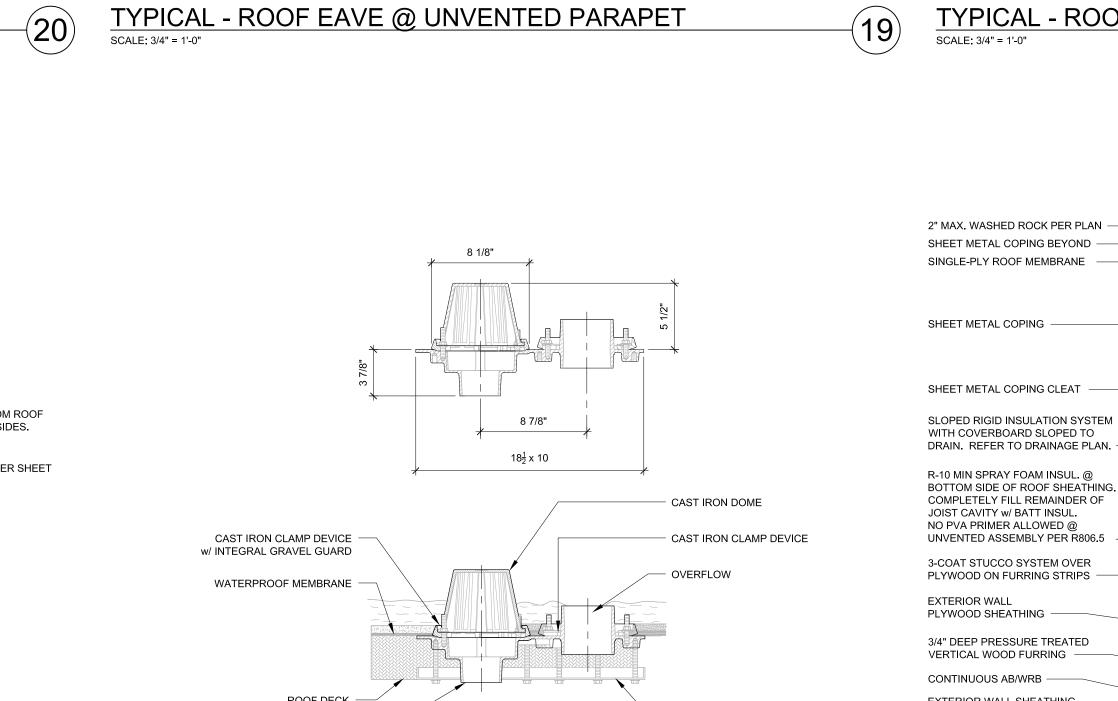


-(10)

TOP OF CURB TO BE 4" MIN ABV PLANE OF ROOF, UNO BY MANUF, PER R308.6.8 WALL BELOW TYPICAL SKYLIGHT INSTALLATION SCALE: 3/4" = 1'-0" -(15)

ALL SKYLIGHTS TO PROVIDE LAMINATED GLASS WITH NOT LESS THAN 0.030" (0.76MM) POLYVINYL BUTYRAL INTERLAYER PER R308.6.2, TYP SKYLIGHT U-FACTOR 0.48 MIN. AND MAX. AIR INFILTRATION RATE OF 0.3 C.F.M. PER S.F. CONTINUE SELF-ADHERING MEMBRANE FROM ROOF APPLY CONTINUOUS SEALANT AS AIR - DECK TO TOP OF CURB AT SILL, HEAD AND SIDES. BARRIER BETWEEN SKYLIGHT AND CURB.-FRAMING & INSULATION PER PLAN AND COVER SHEET





PREFINISHED SHEET METAL

PREFINISHED SHEET METAL

SINGLE-PLY ROOF MEMBRANE

SYSTEM w/ COVERBOARD SLOPED

SLOPED RIGID INSULATION

ROOF SHEATHING PER PLAN

REFER TO ROOF FRAMING NOTES.

R-10 MIN SPRAY FOAM INSUL. @

SHEATHING. COMPLETELY FILL

REMAINDER OF JOIST CAVITY

NO PVA PRIMER ALLOWED @

BOTTOM SIDE OF ROOF

TJI @ 24" O.C. PER PLAN

INTERIOR GYPSUM CEILING

BOARD. PAINT PER PLAN.

- BATT INSULATION

W/BATT INSUL.

WASHERS

PLAN.

SLOPE

1 1/4"

-

SLOPE TO DRAIN

1/4" PER 12", MIN.

– GLB/PSL PER PLAN

- CONT. STRUCTURAL BLOCKING

- RECESSED WINDOW HEAD.

AS REQ'D TO ALIGN WINDOW HEAD

- ROUGH OPENING HEAD FLASHING

REFER TO ELEVATION DRAWINGS.

INSTALL IN ACCORDANCE WITH THE

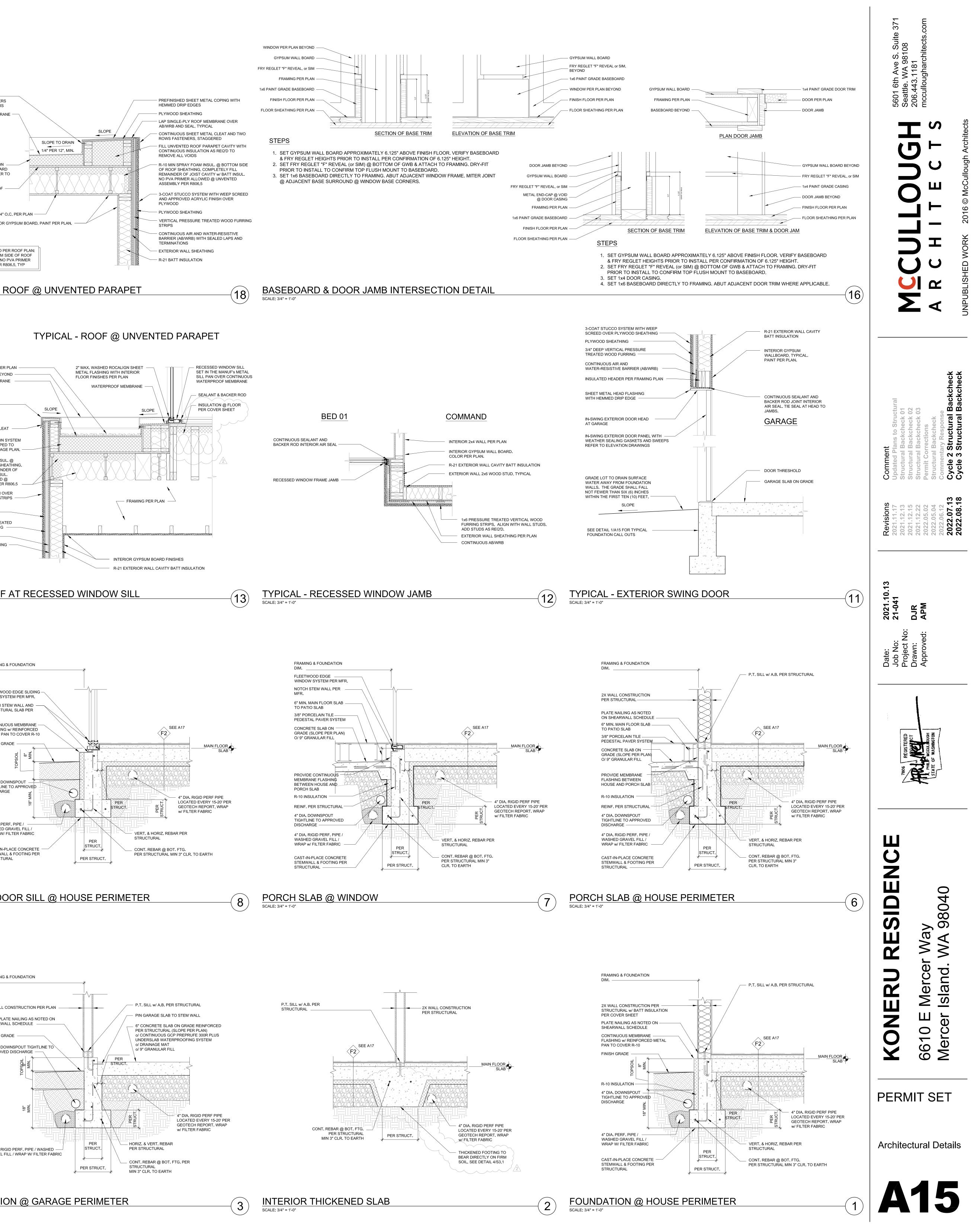
MANUFACTURER'S RECOMMENDATIONS.

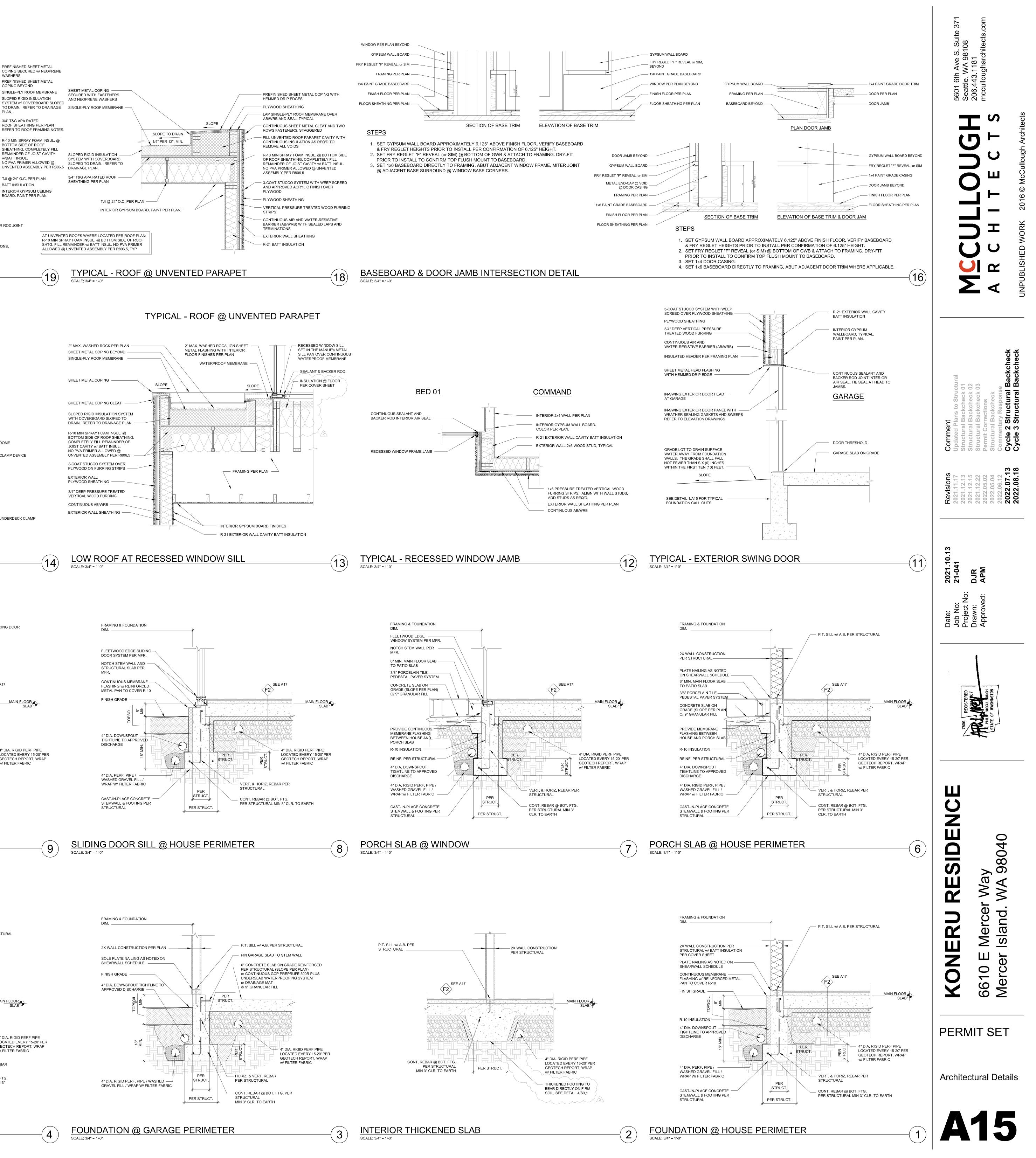
- CONTINUOUS SEALANT AND BACKER ROD JOINT

COPING BEYOND

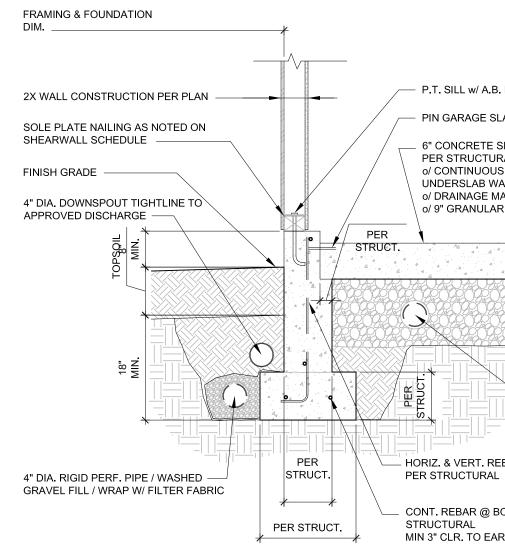
3/4" T&G APA RATED

COPING SECURED w/ NEOPRENE



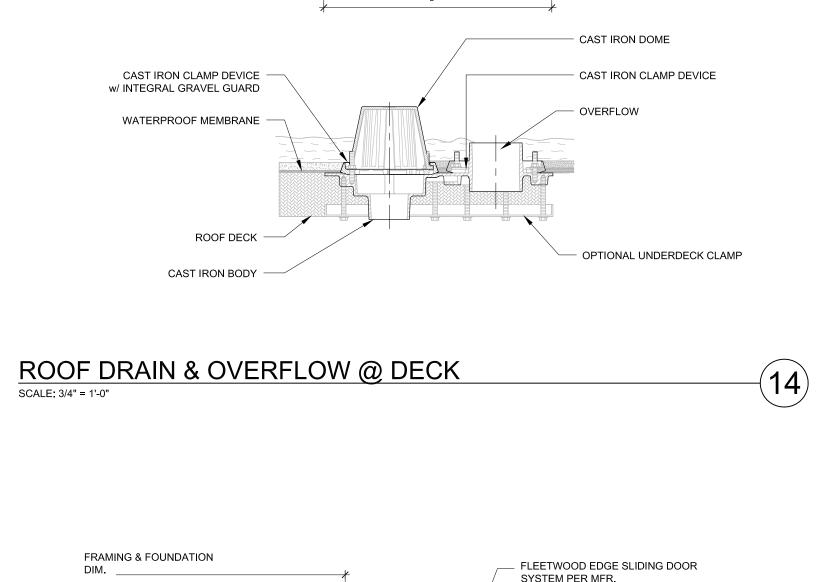


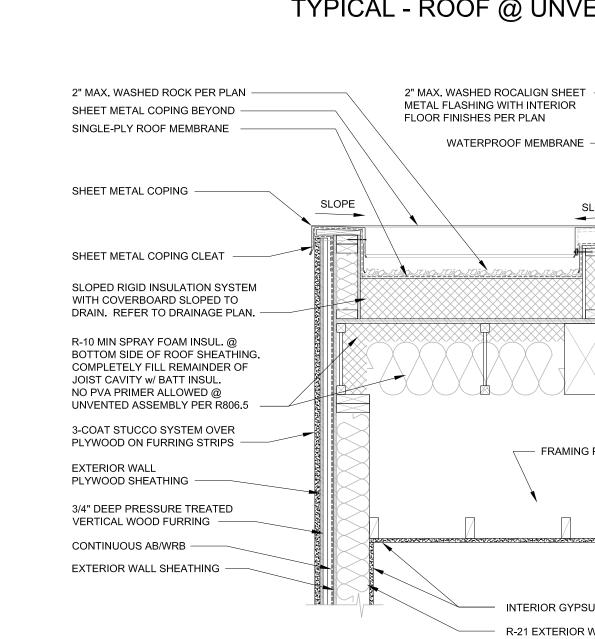


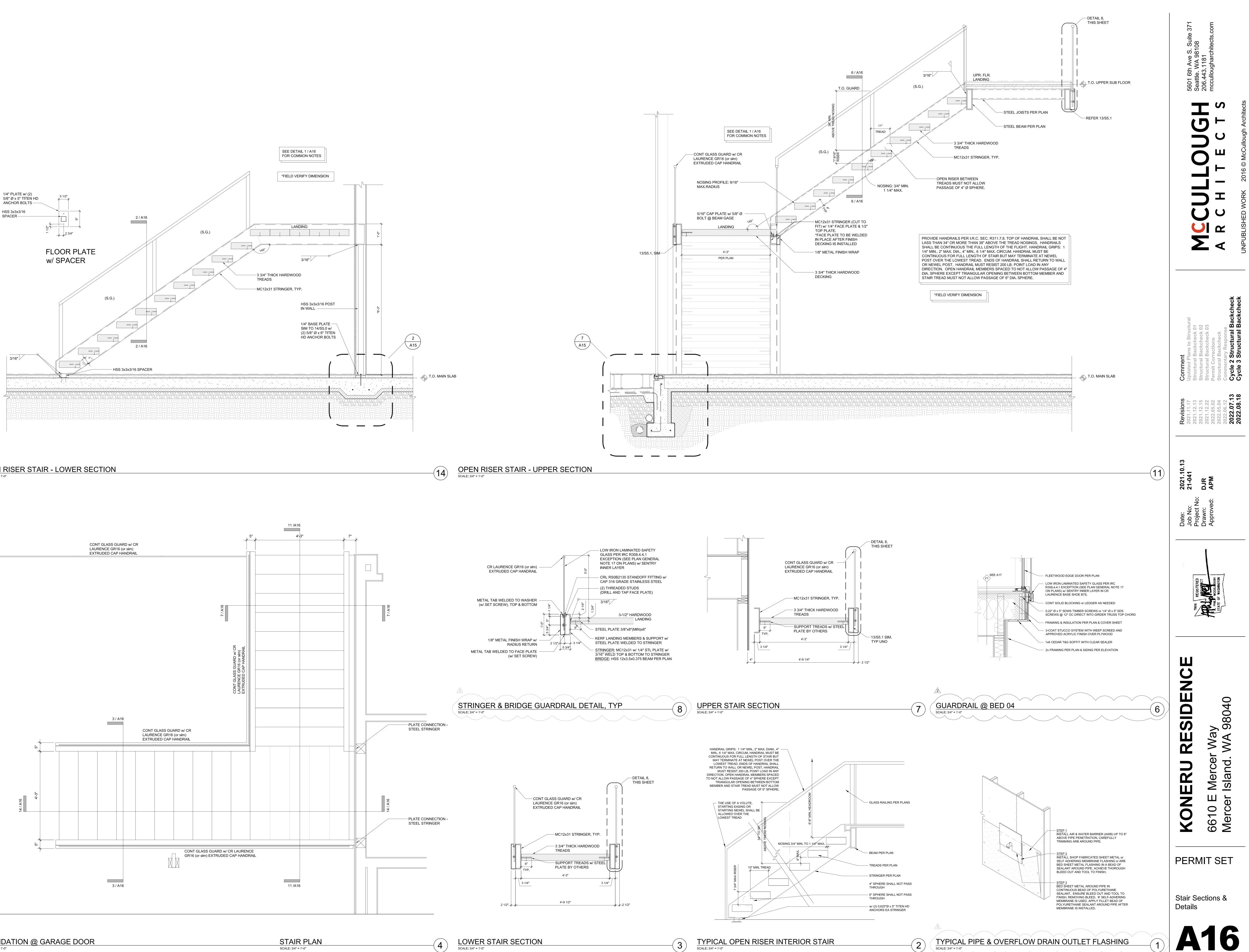


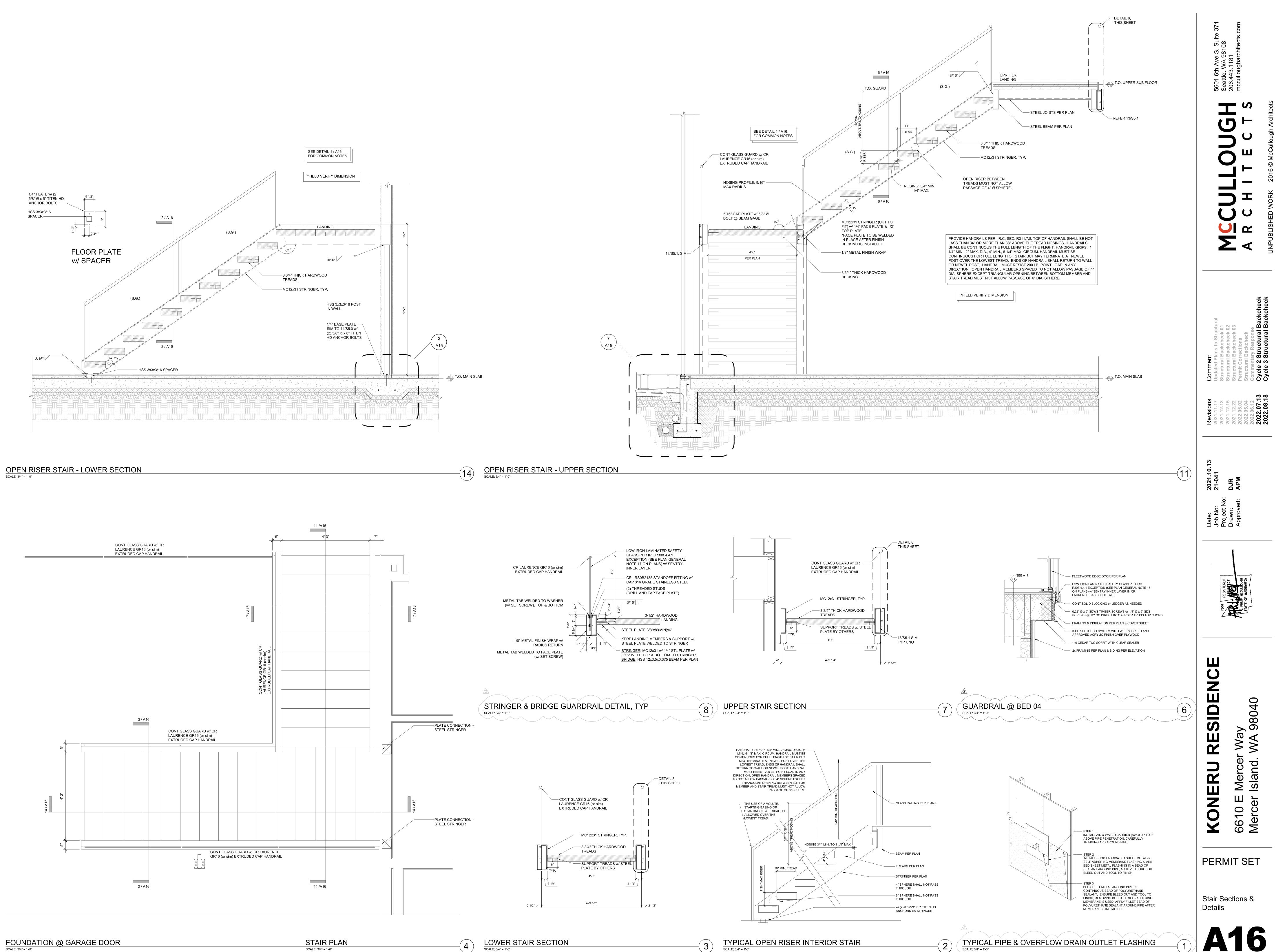


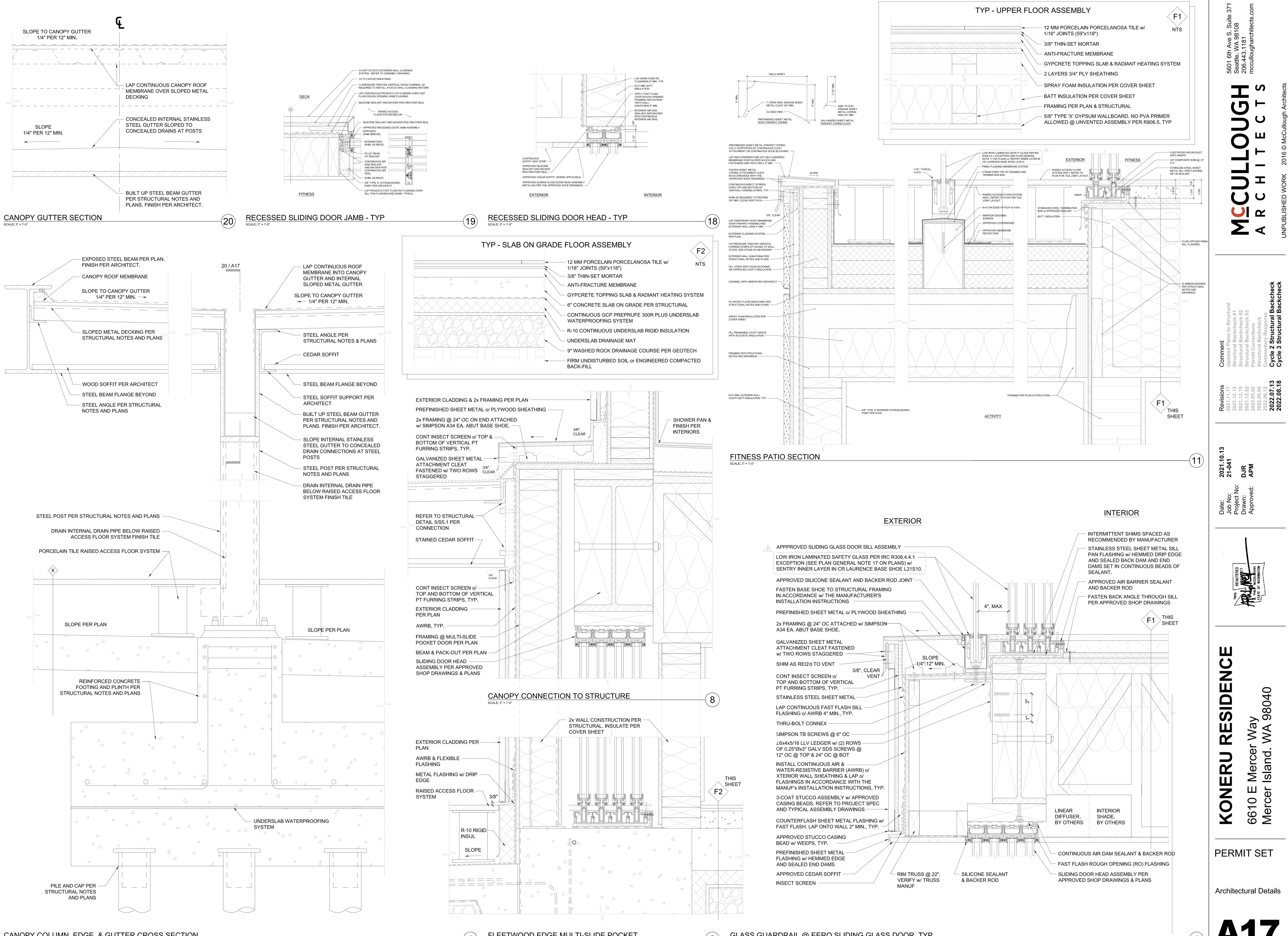












CANOPY COLUMN, EDGE, & GUTTER CROSS SECTION SCALE: 3" = 1'-0"

FLEETWOOD EDGE MULTI-SLIDE POCKET SCALE: 3" = 1'-0"

 $(\mathbf{3})$

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

WIND

EARTHQUAKE

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFC SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC) 2018 EDITION

2. DESIGN LOADING CRITERIA FLOOR LIVE LOAD (RESIDENTIAL) FLOOR LIVE LOAD (RESIDENTIAL DECKS AND BALCONIES)

SNOW

RAIN ON SNOW SOLAR PANEL

Kzt=1.0, GCpi=0.18, 110 MPH (RISK CATEGORY II), EXPOSURE "C' ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS SDC D, SITE CLASS E, Ie=1.0, Ss=1.45, S1=0.50, Sds=1.059, Sd1=0.567, Cs=0.163, R=6.5, SEISMIC DESIGN BASE SHEAR Vsx=68.0 KIPS(ULTIMATE) _____

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

- 4. 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 SECTIONS, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 5. 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."
- 6. 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.
- 7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- 9. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION FOR THE INSPECTORS USE AND REFERENCE.

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

REINFORCING STEEL STRUCTURAL STEEL METAL DECKING GLUED LAMINATED MEMBERS MANUFACTURED LUMBER (PSL'S, LSL'S, LVL'S) PLYWOOD WEB JOISTS CONNECTOR PLATE WOOD FLOOR TRUSSES CONNECTOR PLATE WOOD ROOF TRUSSES

PREFABRICATED STAIR SYSTEM

APPROVED SETS OF SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT AS REQUIRED BY THE JURISDICTION. IF THERE IS A DOUBT WHETHER OR NOT A POST-PERMIT SUBMITTAL IS NECESSARY OR WILL BE ACCEPTED, CONSULT THE BUILDING CODE REVIEWER FOR THE ORIGINAL PERMIT. NO DRAWING SHOULD BE SUBMITTED TO THE BUILDING OFFICIAL THAT STILL BEARS THE DISPOSITION OF "REVISE AND RESUBMIT" OR SIMILAR LANGUAGE.

11.SHOP DRAWING REVIEW OF 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 (1)COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN (2) 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 AS REQUIRED BY THE JURISDICTION.

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.

12.SHOP DRAWINGS OF DESIGN BUILD COMPONENTS INCLUDING AWNINGS, BALCONIES, BASE ISOLATORS, CANOPIES, CURTAIN WALL SYSTEMS, ELEVATORS, EXTERIOR CLADDING, FALL PROTECTION ANCHORS, HOLD-DOWN SYSTEMS (MULTI-STORY), SKYLIGHT FRAMES, STAIR SYSTEMS, STEEL STUD FRAMING, STORAGE RACKS (GREATER THAN 6 FEET IN HEIGHT), AND SUNROOMS SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO REVIEW OF THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE MADE AVAILABLE UPON WRITTEN REQUEST.

QUALITY ASSURANCE

13.SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110, 1704 AND 1705 OF THE IBC 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 SHALL BE PERFORMED.

SOIL CONDITIONS, FILL PLACEMENT, AND DENSITY PILE OR PIER FOUNDATIONS EPOXY GROUTED INSTALLATIONS STRUCTURAL STEEL FABRICATION AND ERECTION

METAL DECK INSTALLATION (INCLUDING FIELD WELDING) 14.STRUCTURAL OBSERVATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704.6 OF THE IBC

CONCRETE CONSTRUCTION STRUCTURAL STEEL CONSTRUCTION SHEARWALLS HOLDOWNS

FOR THE FOLLOWING BUILDING ELEMENTS:

THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD ADEQUATE NOTICE TO SCHEDULE APPROPRIATE SITE VISITS FOR STRUCTURAL OBSERVATION.

STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED IN SECTION 110 OR SPECIAL INSPECTIONS IN SECTION 1705 OR OTHER SECTIONS OF THE IBC.

THE OWNER SHALL EMPLOY THE STRUCTURAL ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN

GEOTECHNICAL

15.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 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.

LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED) TRAFFIC SURCHARGE SEISMIC SURCHARGE

PASSIVE PRESSURE 4" DIAMETER STANDARD WEIGHT PIPE PILE CAPACITY

SOILS REPORT REFERENCE: GEOTECHNICAL ENGINEERING STUDY AND CRITICAL AREA STUDY OF PROPOSED PROPERTY REDEVELOPMENT LOCATED AT 6610 EAST MERCER WAY, MERCER ISLAND, WASHINGTON, 98040, PREPARED BY GEOTECH CONSULTANTS, INC, REPORT NUMBER JN21151, DATED JUNE 8, 2021.

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	40 PSF	Z
	60 PSF	
	25 PSF	1
	5 PSF	<
	5 PSF	Z
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METHOD - DIRECTIONAL PROCEDURE

PER SOILS REPORT PER SOILS REPORT PER MANUFACTURER PER AISC 360

PER SDI QA/QC

SEE SOILS REPORT / 45 PCF 90 PSF 300 PCF 10 tons

16.4" DIAMETER STANDARD WEIGHT PIPE PILES SHALL BE DRIVEN TO REFUSAL AS DEFINED BY THE SOILS ENGINEER. PIPE PILES SHALL BE INSTALLED IN STRICT CONFORMANCE TO SOILS ENGINEER'S REQUIREMENTS. TESTING OF PILES SHALL BE ACCORDANCE WITH SOILS ENGINEER'S REQUIREMENTS AND AT A MINIMUM BE TESTED IN ACCORDANCE TO ASTM STANDARD D1143-81 FOR A MINIMUM OF (1)PILE OR 3% OF 3", 4" AND 6" DIAMETER PILES UP TO (5)PILES OF EACH SIZE MAXIMUM; USE OF THE QUICK LOAD TEST METHOD IN THE STANDARD IS THE MINIMUM REQUIRED. STEEL PIPE SHALL CONFORM TO ASTM 53, GRADE A OR B, Fy = 35 KSI. PILES SHALL BE DRIVEN IN NOMINAL SECTIONS AND CONNECTED WITH COMPRESSION FITTED SLEEVE COUPLERS. PIPE JOINTS SHOULD NOT BE WELDED TOGETHER. PILES SHALL BE PLACED WITHIN 3" OF SPECIFIED LOCATION. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRIVING PILES.

17.SPECIAL INSPECTION OF PILES SHALL BE REQUIRED FOR INSTALLATION AND TESTING.

CONCRETE

- 18. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318 AND ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'C = 3000 PSI. SLUMP OF CONCRETE SHALL NOT EXCEED 6". STRUCTURAL DESIGN IS BASED ON A CONCRETE STRENGTH OF $f'_{C} = 2500 \text{ PSI}$, THEREFORE NO CONCRETE STRENGTH TESTING REQUIRED. CONCRETE EXPOSURE CATEGORIES ARE F1, S0, W0, AND C1.
- ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14, TABLE 19.3.3.1.
- 19.REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, fy = 60 KSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, fy = 40 KSI. WELDED WIRE WIRE FABRIC SHALL CONFORM TO ASTM A1064. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, fy = 60 KSI.
- 20. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #6 AND SMALLER 48 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 48 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.
- 21.CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED
- to earth FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) 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"

ANCHORAGE

- 22.EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" EPOXY ADHESIVE AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT ESR-2508 AND IAMPO-UES REPORT ER-265. SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH CURRENT ICC REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A36, UNO.
- 23. HEAVY DUTY THREADED CONCRETE ANCHORS SPECIFIED ON THE DRAWINGS SHALL BE "TITEN HD SCREW ANCHOR" AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT ESR-2713 AND ESR-1056, INCLUDING MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS. SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH CURRENT ICC REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.
- 24. EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "STRONG-BOLT 2" ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY. INSTALL IN STRICT CONFORMANCE TO ICC-ES REPORT ESR-3037 AND IAPMO-UES REPORT ER-240, INCLUDING MINIMUM EMBEDMENT AND EDGE DISTANCE REQUIREMENTS. SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH CURRENT ICC REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.
- 25. DRIVE PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE (PDPWL-300MG, 0.145" DIAMETER, UNO) AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY OR AN APPROVED EQUIVALENT IN STRENGTH AND EMBEDMENT. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT ESR-2138. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1", UNO. MAINTAIN AT LEAST 3" TO NEAREST CONCRETE EDGE.

WOOD

26.ALL 2x LUMBER SHALL BE KILN DRIED OR MC-19, AND ALL LUMBER SHALL BE GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD GRADING RULES FOR WEST COAST LUMBER NO 17. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS AND BEAMS	(2x, 3x, 4x MEMBERS)	DOUGLAS FIR-LARCH NO 2 MINIMUM BASE VALUE, Fb = 900 PSI
BEAMS	(6x AND LARGER)	DOUGLAS FIR-LARCH NO 2 MINIMUM BASE VALUE, Fb = 875 PSI
POSTS	(4x MEMBERS)	DOUGLAS FIR-LARCH NO 2 MINIMUM BASE VALUE, Fc = 1350 PSI
	(6x AND LARGER)	DOUGLAS FIR-LARCH NO 2 MINIMUM BASE VALUE, Fc = 600 PSI
studs, plates and misc	FRAMING	DOUGLAS FIR-LARCH NO 2

27.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 GLULAM BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb = 2400 PSI, Fv = 265 PSI, E = 1800 KSI, UNO. ALL CANTILEVER GLULAM BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2400 PSI, Fv = 265 PSI, E = 1800 KSI, UNO. GLUED LAMINATED COLUMNS SHALL BE DOUGLAS FIR COMBINATION 3, L2D GRADE, Fc = 2300 PSI, Fb = 2000 PSI, E = 1900 KSI.

28.MANUFACTURED LUMBER, PSL, LVL, AND LSL, SHALL BE MANUFACTURED UNDER A PROCESS APPROVED BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. ALL PSL, LVL, AND LSL LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH ICC-ES REPORT ESR-1387 USING DOUGLAS FIR VENEER GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. THE MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PSL (2.0E)	Fb = 2900 PSI	E = 2000 KSI	Fv = 290 PSI
VL (2.0E)	Fb = 2600 PSI	E = 2000 KSI	Fv = 285 PSI
SL (1.55E)	Fb = 2325 PSI	E = 1550 KSI	Fv = 310 PSI
PSL COLUMN (1.8E)	Fc = 2500 PSI	E = 1800 KSI	Fv = 190 PSI

DESIGN SHOWN ON PLANS IS BASED ON LUMBER MANUFACTURED BY THE TRUS-JOIST CORPORATION. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH MEMBERS PROVIDED.

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.

29. PREFABRICATED PLYWOOD WEB JOIST DESIGN SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE TRUS-JOIST CORPORATION. ALTERNATE PLYWOOD WEB JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH PLYWOOD WEB JOIST PROVIDED.

30.PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, 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.

WALL SHEATHING SHALL BE 7/16" or 1/2" (NOMINAL) WITH SPAN RATING 24/0 FLOOR SHEATHING SHALL BE 3/4" T&G (NOMINAL) WITH SPAN RATING 48/24 WATERPROOF DECK SHEATHING SHALL BE 3/4" T&G (NOMINAL) WITH SPAN RATING 48/24

FLAT ROOF SHEATHING SHALL BE 3/4" T&G (NOMINAL) WITH SPAN RATING 48/24 ROOF SHEATHING SHALL BE 1/2" or 7/16" (NOMINAL) WITH SPAN RATING 32/16

FOR ROOFS WITH A PITCH GREATER THAN 2:12 REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

32.PRESSURE TREATED WOOD (INCLUDES PRESERVATIVE AND FIRE TREATED) SHALL BE TREATED PER AWPA STANDARDS. PRESSURE TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO RETENTION OF 0.25 PCF. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO A RETENTION OF 0.40 PCF. SODIUM BORATE (SBX) TREATED WOOD SHALL NOT BE USED WHERE EXPOSED TO WEATHER. FASTENERS AND TIMBER CONNECTORS WITHOUT AMMONIA IN DIRECT CONTACT WITH ACQ-A TO A RETENTION LEVEL OF 0.40 PCF), CBA-A (UP TO A RETENTION LEVEL OF 0.41 PCF), CA-B (UP TO A RETENTION LEVEL OF 0.21 PCF), SHALL BE G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653. FASTENERS AND TIMBER CONNECTORS WITH AMMONIA IN DIRECT CONTACT WITH ACQ-A (OVER A RETENTION LEVEL OF 0.40 PCF), CBA-A (OVER A RETENTION LEVEL OF 0.41 PCF), CA-B (OVER A RETENTION LEVEL OF 0.21 PCF), OR WITH ACZA TREATED WOOD SHALL BE TYPE 304 OR 316 STAINLESS STEEL.

33. 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 CURRENT ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

EACH MEMBER.

CONNECTED.

34.WOOD FASTENERS

10d 12d 16d

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 SCREWS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (2018 EDITION) WITH A LEAD BORE HOLE OF 60-70% OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS. BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. HOLES SHALL BE ACCURATELY ALIGNED IN MAIN MEMBERS AND SIDE PLATES/MEMBERS. BOLTS SHALL NOT BE FORCIBLY DRIVEN.

B. WALL FRAMING: REFER TO ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" oc, UNO. (2) 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. (2)2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS IN STRUCTURAL WALLS, UNO. NAIL MULTI-MEMBER HEADERS WITH (2) ROWS 10d AT 12" oc. 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.

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, UNO. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL TIMBER JOISTS TO SUPPORTS WITH (3)10d NAILS AND NAIL TJI JOISTS TO SUPPORTS WITH (2)10d NAILS. ATTACH JOISTS TO BEAMS WITH SIMPSON JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH (2)ROWS 10d AT 12"oc. TOENAIL RIM JOIST TO TOP PLATE WITH 10d AT 6"oc. TOENAIL BLOCKING BETWEEN JOISTS TO TOP PLATE WITH (3)10d NAILS.

UNLESS NOTED OTHERWISE ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS WITH END JOINTS STAGGERED, AND NAILED AT 6"oc WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND AT 12" OC 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 10d AT 12"oc, UNO.

36.NOTCHES AND HOLES IN WOOD FRAMING: A. SAWN LUMBER JOISTS AND RAFTERS: NOTCHES AT THE ENDS OF JOISTS SHALL NOT EXCEED 1/4 THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF JOISTS SHALL NOT EXCEED 1/6 THE JOIST DEPTH. BE LONGER THAN 1/3 THE JOIST DEPTH, OR BE LOCATED IN THE MIDDLE 1/3 OF THE SPAN. HOLES SHALL NOT BE WITHIN 2" OF THE TOP OR BOTTOM OF THE JOIST AND THE DIAMETER SHALL NOT EXCEED 1/3 THE JOIST DEPTH. SPACING BETWEEN HOLES SHALL BE A MINIMUM OF (2) TIMES THE DIAMETER OF THE LARGEST HOLE OR 2" AND SHALL BE LOCATED A MINIMUM OF 2" FROM ANY

NOTCH. B. EXTERIOR AND BEARING WALLS: WOOD STUDS ARE PERMITTED TO BE NOTCHED TO A DEPTH NOT EXCEEDING 1/4 OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40% OF THE STUD WIDTH IS PERMITTED IN WOOD STUDS. HOLES SHALL NOT BE WITHIN 5/8" TO THE EDGE OF THE STUD. SPACING BETWEEN HOLES SHALL BE A MINIMUM OF (2) TIMES THE DIAMETER OF THE LARGEST HOLE OR 2" AND SHALL NOT BE LOCATED AT THE SAME SECTION AS A NOTCH.

C. CUTS, NOTCHES, AND HOLES IN MANUFACTURED LUMBER, PREFABRICATED PLYWOOD WEB JOISTS, AND PREFABRICATED TRUSSES ARE PROHIBITED EXCEPT WHERE NOTED ON STRUCTURAL PLANS OR PERMITTED BY MANUFACTURER'S RECOMMENDATIONS.

37.ELECTRICAL, MECHANICAL, PLUMBING, AND DRAINAGE SYSTEMS SHALL BE DESIGNED TO ACCOMMODATE THE DIFFERENTIAL SHRINKAGE OR MOVEMENT OF THE WOOD STRUCTURE (3/8" PER FLOOR).

38. DEFLECTION OF CANTILEVERS SHALL BE CLOSELY MONITORED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR TO VERIFY AND ENSURE ALL POST CAPS AND POST BEARING CONDITIONS ARE INSTALLED IN STRICT CONFORMANCE TO THE STRUCTURAL PLANS. CANTILEVERS IN WOOD FRAMING CAN DEFLECT UP TO 1/8" PER FOOT (I.E. 4' CANTILEVER MAY DEFLECT 1/2"). IF DEFLECTION EXCEEDS 1/8" PER FOOT NOTIFY STRUCTURAL ENGINEER IMMEDIATELY. BEFORE FINISHES ARE INSTALLED, FLOORS AT OR ABOVE CANTILEVERS MAY REQUIRE LEVELING COMPOUND AND SOFFITS FURRED TO MAKE THEM LEVEL.

MAXIMUM LIVE LOAD DEFLECTION OF THE SPAN DIVIDED BY 480. 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 STAMPED AND SIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPE BEARING POINTS, INTERSECTIONS, ETC, SHOWN ON THE DRAWINGS. 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.

TOP CHORD LIVE LOAD 40 PSF TOP CHORD DEAD LOAD 25 PSF 5 PSF BOTTOM CHORD DEAD LOAD 70 PSF TOTAL LOAD REFER TO PLAN FOR ADDITIONAL LOADING. ALL FLOOR TRUSSES SHALL BE DESIGNED FOR A

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

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

WHERE CONNECTOR STRAPS CONNECT (2) MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN

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

GUN

A. NAIL SIZES	SPECIFIED ON DRAWI	NGS ARE BASI	ED ON THE FOLLOWING SPECIFICATIONS:
SIZE	TYPE	LENGTH	DIAMETER
8d	COMMON	2-1/2"	0.131"
10d	GUN	3''	0.131"
12d	GUN	3-1/4"	0.131"

3-1/2"

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

0.131"

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

C. SDS AND SDWS SCREWS CALLED OUT ON PLAN ARE TIMBER SCREWS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY. SCREWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. EQUIVALENT SCREWS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. LAG SCREWS ARE NOT AN EQUIVALENT SUBSTITUTION.

35. WOOD FRAMING NOTES - THE FOLLOWING APPLY UNLESS NOTED OTHERWISE ON THE PLANS:

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

ALL WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE AND BOTTOM PLATE TO EACH STUD WITH (3)10d NAILS. FACE NAIL DOUBLE TOP PLATES WITH 10d AT 12" oc AND LAP MINIMUM 4'-0" AT JOINTS AND PROVIDE (12)10d NAILS AT 4" oc EACH SIDE OF JOINT. AT TOP PLATE INTERSECTIONS PROVIDE (3) 10d FACE NAILS.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH (2) ROWS OF 12d NAILS AT 16" oc, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS AT 4'-0" OC EMBEDDED 7" MINIMUM, UNO. THERE SHALL BE A MINIMUM OF (2)BOLTS PER PLATE SECTION WITH (1)BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 4-1/2" FROM EACH END OF THE PLATE SECTION. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH (2)ROWS OF 10d AT 16"oc. UNLESS NOTED OTHERWISE, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH #6 x 1-1/4" TYPE S OR W SCREWS AT 12"oc. UNLESS NOTED OTHERWISE, 7/16" OR 1/2" (NOMINAL) APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS AT 6"oc AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES) AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS AT 12"oc. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

39. PREFABRICATED CONNECTOR PLATE WOOD FLOOR 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.

	• • • • • • • • • • • • • • • • •				
> > > >	40.PREFABRICATED CONNECTOR PLATE WOOD ROOF MANUFACTURER IN ACCORDANCE WITH THE "NATH CONNECTED WOOD TRUSS CONSTRUCTION", ANSI/ SPANS AND CONDITIONS SHOWN ON THE PLANS. I	ONAL DESIGN STANDARD FOR <i>I</i> TPI 1 BY THE TRUSS PLATE INSTITU	METAL PLATE- JTE FOR THE		
> > >	TOP CHORD SNOW LOAD (SEE NOTE BELOW) TOP CHORD DEAD LOAD (SEE NOTE BELOW) BOTTOM CHORD DEAD LOAD TOTAL LOAD	30 PSF 15 PSF 5 PSF 50 PSF			
> > >	WIND UPLIFT (TOP CHORD) BOTTOM CHORD LIVE LOAD (BOTTOM CHORD LIVE LOAD DOES NOT ACT CONCURRENTLY WITH THE ROOF LIVE LOAD)	10 PSF 10 PSF			
> > \	NOTE: SOLAR PANEL WEIGHT INCLUDED IN THE 1 RAIN ON SNOW SURCHARGE INCLUDED IN THE 3				
	TRUSSES SHALL BE DESIGNED TO NOT ALLOW LIMITE CONFIGURED SO THAT ALL OPENINGS ARE SMALLE		.1. WEBS SHAL		
	WOOD TRUSSES SHALL UTILIZE APPROVED CONNECT SHOP DRAWINGS AND DESIGN CALCULATIONS TO REVIEW PRIOR TO FABRICATION. SUBMITTED DOCU STRUCTURAL ENGINEER REGISTERED IN THE STATE OF POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC, SHOWN SPECIAL HIP, VALLEY, AND INTERSECTION AREAS, US TRUSSES, ROOF OVER-FRAMING, ETC SHALL BE DETE SPECIFICALLY INDICATED ON THE PLANS. PROVIDE CONNECTION DETAILS AND REQUIRED CONNECTION AND PERMANENT TRUSS BRACING AND BRIDGING.	THE ARCHITECT AND STRUCTUR MENTS SHALL BE STAMPED AND WASHINGTON. PROVIDE FOR NON THE DRAWINGS. EXACT C E OF GIRDER TRUSSES, JACK TR RMINED BY THE MANUFACTURE ALL TRUSS TO TRUSS AND TRUSS	AL ENGINEER F SIGNED BY A SHAPES, BEARI COMPOSITION USSES, STEP-DC R UNLESS TO GIRDER TR		
	41.STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON: A. AISC 360 AND CHAPTER 22 OF THE INTERNATIONAL BUILDING CODE.				
	B. APRIL 14, 2010 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AMENDED AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1 AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENT IN PARAGRAPH 3.1.				
	C. SPECIFICATION FOR STRUCTURAL JOINTS USING	HIGH-STRENGTH BOLTS.			
	42.STRUCTURAL STEEL SHALL CONFORM TO THE FOLLO	WING REQUIREMENTS:			
	TYPE OF MEMBER	ASTM SPECIFICATION	Fy		
	A. WIDE FLANGE SHAPES B. HP-SHAPES C. OTHER SHAPES, PLATES, AND RODS D. STRUCTURAL PIPE	A992 A572 (GRADE 50) A36 A53 (GRADE B)	50 KSI 50 KSI 36 KSI 35 KSI		
(3/4"ROUND, UNO) G. COMMON BOLTS (WOOD AF H. ANCHOR BOLTS	SQUARE OR RECTANGULAR ROUND F. CONVENTIONAL HIGH-STRENGTH BOLTS (3/4"ROUND, UNO) G. COMMON BOLTS (WOOD APPLICATIONS) H. ANCHOR BOLTS	A500 (GRADE C) A500 (GRADE C) F3125 (GRADE A325) A307 F1554 (GRADE 36)	50 KSI 46 KSI		
	I. HEADED SHEAR STUDS 43.ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHA		of the aisc co		
	OF STANDARD PRACTICE FOR STEEL BUILDINGS AND 44.ALL A325 CONNECTION BOLTS NEED ONLY BE TIGHT THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOI BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE SPUD WRENCH.	TENED TO A SNUG TIGHT COND NT ARE IN FIRM CONTACT. THIS	MAY BE ATTAI		
	45.ALL WELDING SHALL BE IN CONFORMANCE WITH A PERFORMED BY WABO CERTIFIED WELDERS USING E (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLE MADE WITH A FILLER MATERIAL THAT HAS A MINIMU AND 40 FT-LBS AT 70 DEGREES(F), AS DETERMINED B CERTIFICATION.	70XX ELECTRODES. ONLY PREG TE JOINT PENETRATION GROOV M CVN TOUGHNESS OF 20 FT-LE	QUALIFIED WELD /E WELDS SHAL 3S AT -20 DEGR		

EQUIV EQUIVALENT

CERTIFIC					
ABBREV	/IATIONS				
±	PLUS OR MINUS	ES	EACH SIDE	OD	OUTSIDE DIAMETER
Ø	DIAMETER	EW	EACH WAY	OF	OUTSIDE FACE
AB	ANCHOR BOLT	EXP	EXPANSION	OPNG	OPENING
ABV		EXT	EXTERIOR	OPP	
		FDN		OSB	ORIENTED STRAND
AFF	ABOVE FINISHED FLOOR	FF FIN	FINISHED FLOOR FINISH	PAF	BOARD POWDER ACTUATED
ALT	ALTERNATE	FIN	FLOOR	ГАГ	FASTENER
APPROX		FRMG	FRAMING	PEN	PENETRATION
ARCH	ARCHITECT,	FRP	FIBER REINFORCED	PERP	PERPENDICULAR
	ARCHITECTURAL		PLASTIC	PL	PLATE
BLDG	BUILDING	FS	FAR SIDE	PL	PROPERTY LINE
BLKG	BLOCKING	FT	FEET	PLF	POUNDS PER LINEAR
BLW	BELOW	ftg	FOOTING		FOOT
BM	BEAM	GA	GAGE, GAUGE	PLY	PLYWOOD
BMU	BRICK MASONRY	GALV	GALVANIZED	PREFAB	PREFABRICATED
	UNIT	GL	GLUE LAMINATED	PRELIM	PRELIMINARY
BOE	BOTTOM OF		TIMBER	PSF	Pounds per
	EXCAVATION	GR	GRADE		SQUARE FOOT
BOT	BOTTOM	GT	GIRDER TRUSS	PSI	POUNDS PER SQUARE
BRG	BEARING	GWB	GYPSUM WALLBOARD		INCH
BSMT	BASEMENT	HD	HOLDOWN	PSL	PARALLEL STRAND
BTWN	BETWEEN	HDR	HEADER	DT	
С	CAMBER	HF		PT	
CBF		HGR		P-T	
CGS	BRACED FRAME CENTER GRAVITY	hm Horiz	HIP MASTER HORIZONTAL	P-I R	POST-TENSIONED RADIUS
CGS	OF STEEL	HSS	HOLLOW STRUCTURAL	REF	REFERENCE
CIP	CAST IN PLACE	1155	SECTION	REINF	REINFORCING
CJ	CONTROL JOINT	HT	HEIGHT	REQD	REQUIRED
CJP	COMPLETE JOINT	IBC	INTERNATIONAL	RET	RETAINING
	PENETRATION		BUILDING CODE	RO	ROUGH OPENING
Ģ	CENTERLINE	ID	INSIDE DIAMETER	SCHED	SCHEDULE
ĊLG	CEILING	IE	INVERT ELEVATION	SECT	SECTION
CLR	CLEAR	IF	INSIDE FACE	SF	SQUARE FOOT
CMU	CONCRETE	IN	INCH	Shtg	Sheathing
	MASONRY UNIT	INSUL	INSULATION	SIM	SIMILAR
COL	COLUMN	IRC	INTERNATIONAL	SOG	slab on grade
CONC	CONCRETE		RESIDENTIAL CODE	SPEC	SPECIFICATIONS
CONN	CONNECTION	INT	INTERIOR	SQ	SQUARE
CONST		JST		SR	
CONT		K	KIPS (1000 POUNDS)	SS	STAINLESS STEEL
COORD CP		KP	KING POST	stagg std	
Cr	COMPLETE PENETRATION	KSF L	KIPS PER SQ FT ANGLE	STIFF	STANDARD STIFFENER
CTR	CENTER	L	LENGTH	STL	STEEL
CTRD	CENTERED	LBS	POUNDS	STRUCT	STRUCTURAL
CY	CUBIC YARD	LF	LINEAL FOOT	SW	SHEARWALL
DBL	DOUBLE	LL	LIVE LOAD	SYM	SYMMETRICAL
DEMO	DEMOLISH	LLH	LONG LEG	T&G	TONGUE AND GROOVE
DET	DETAIL		HORIZONTAL	TDS	TIE DOWN SYSTEM
DEV	DEVELOPMENT	LLV	LONG LEG VERTICAL	TEMP	TEMPORARY
DF	DOUGLAS FIR	LOC	LOCATE, LOCATION	THK	THICKNESS
DIA	DIAMETER	long	LONGITUDINAL	THKD	THICKENED
DIAG	DIAGONAL	LSH	LONG SLOTTED HOLE	THRD	THREADED
DIM	DIMENSION	LSL	LAMINATED	THRU	THROUGH
DIST	DISTRIBUTED	1.5.71	STRUCTURAL LUMBER	TOW	TOP OF WALL
DL		LVL	LAMINATED VENEER	TPL	
DN		T		TRANSV	TRANSVERSE
DO DP	DITTO DEEP/DEPTH	MAT MAX	MATERIAL MAXIMUM	typ Uno	TYPICAL UNLESS NOTED
DI	DRAG STRUT	MAA MB	MACHINE BOLT	UNO	OTHERWISE
DWGS	DRAWINGS	MECH	MECHANICAL	VERT	VERTICAL
(E)	EXISTING		MANUFACTURE	VIF	VERIFY IN FIELD
(∟) EA	EACH	MIN	MINIMUM	W	WIDE OR WIDTH
EE	EACH END	MISC	MISCELLANEOUS	w/	WITH
EF	EACH FACE	MRF	MOMENT RESISTANT	w/o	WITHOUT
EL	ELEVATION		FRAME	WD	WOOD
ELEV	ELEVATOR	MTL	METAL	WHS	WELDED HEADED STUD
EMBED	EMBEDMENT	NO	NUMBER	WP	WORKING POINT
ENGR	ENGINEER	NOM	NOMINAL	WTS	WELDED THREADED
EQ	EQUAL	NS	NEAR SIDE		STUD
EQUIP	EQUIPMENT	NTS	NOT TO SCALE	WWM	WELDED WIRE MESH
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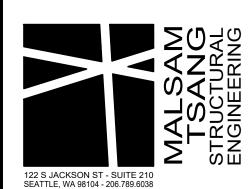
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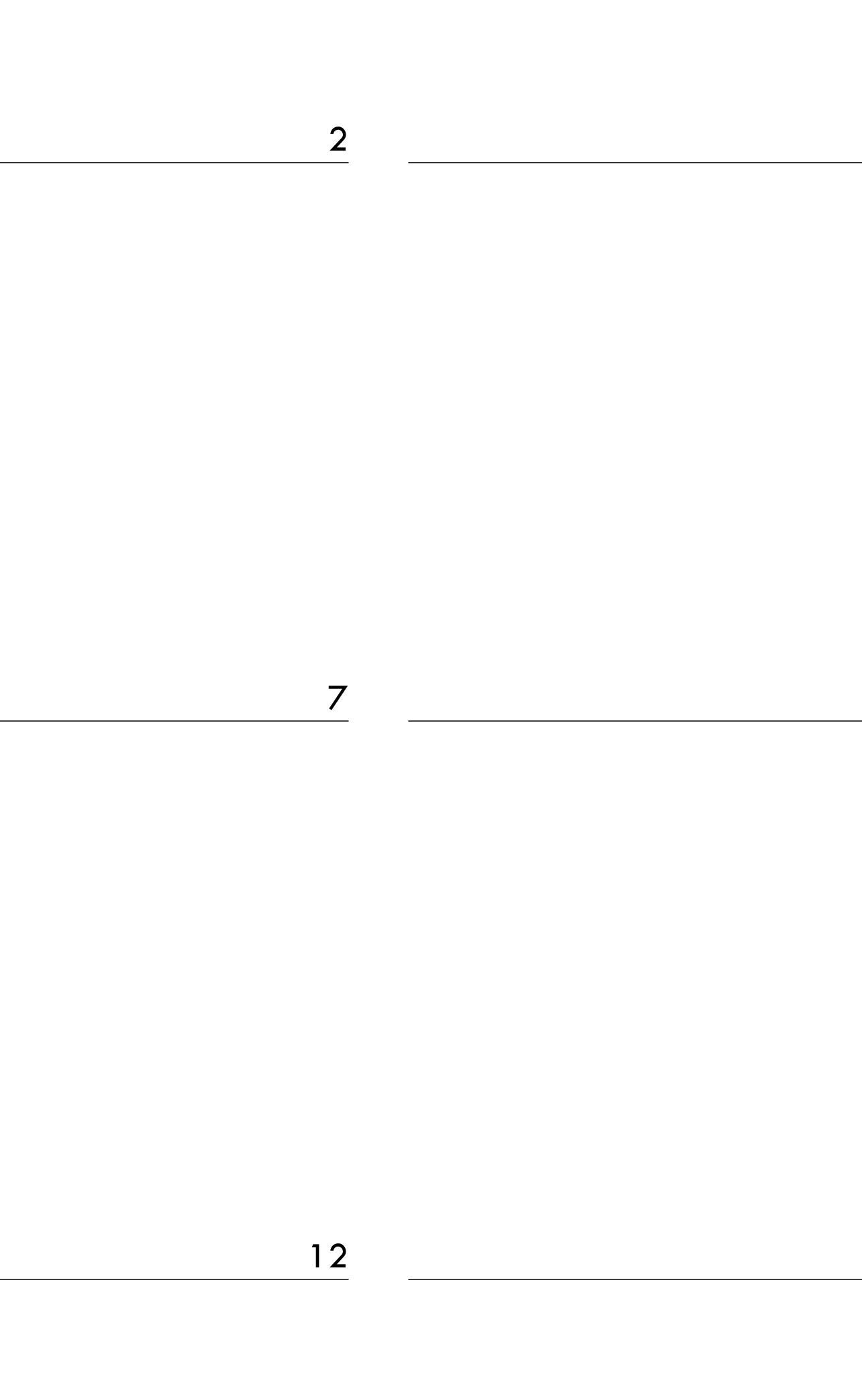
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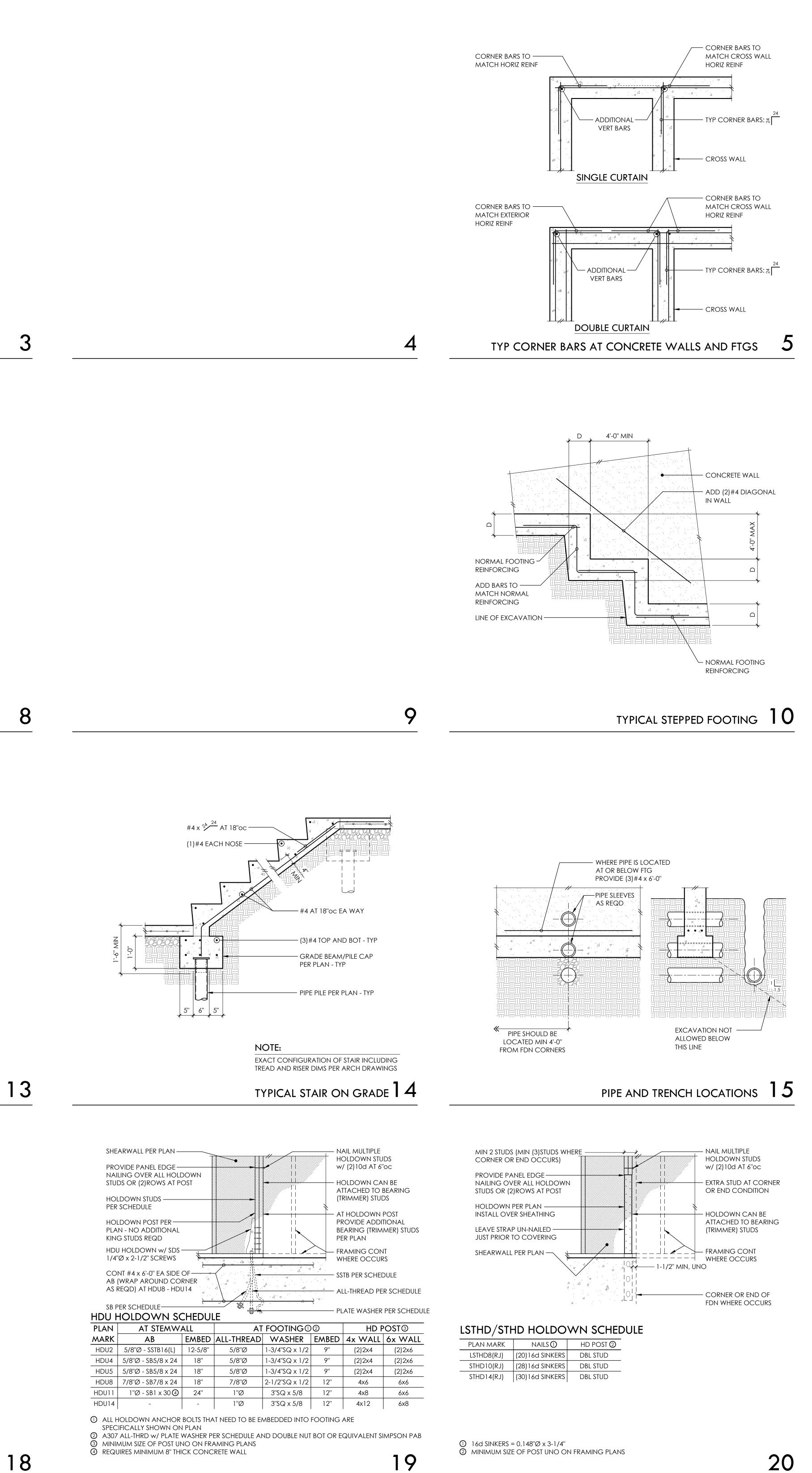
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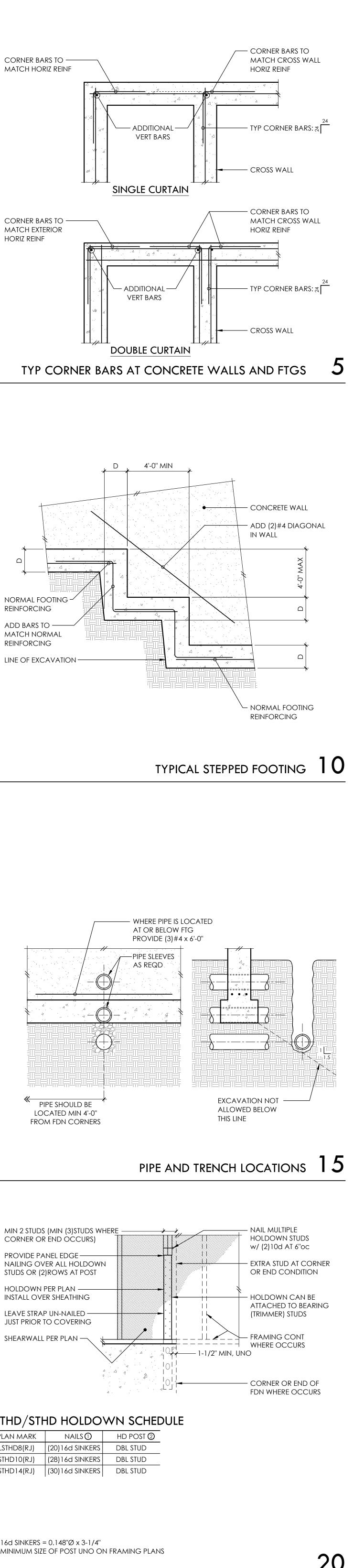
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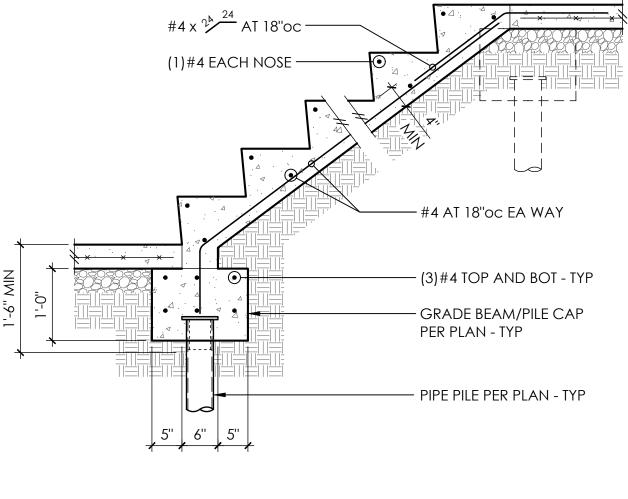
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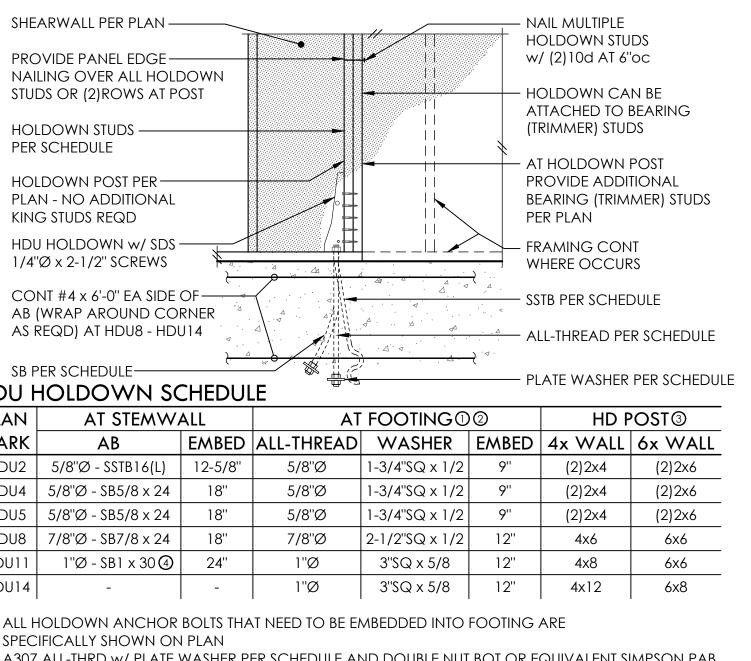
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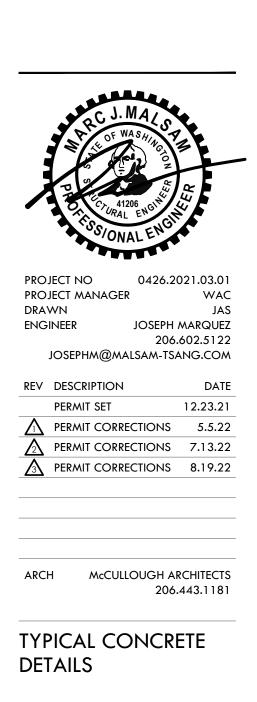








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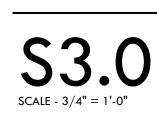
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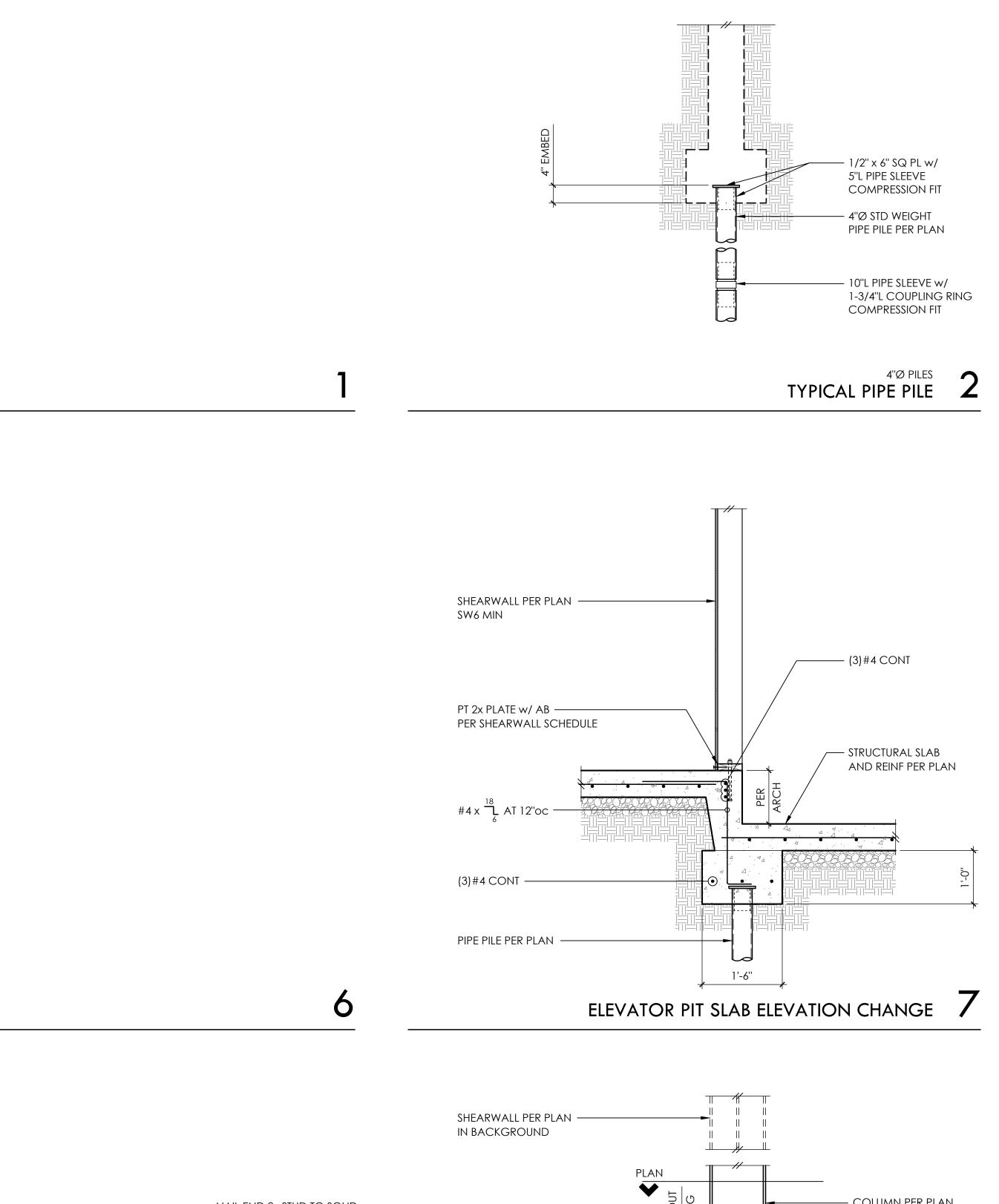
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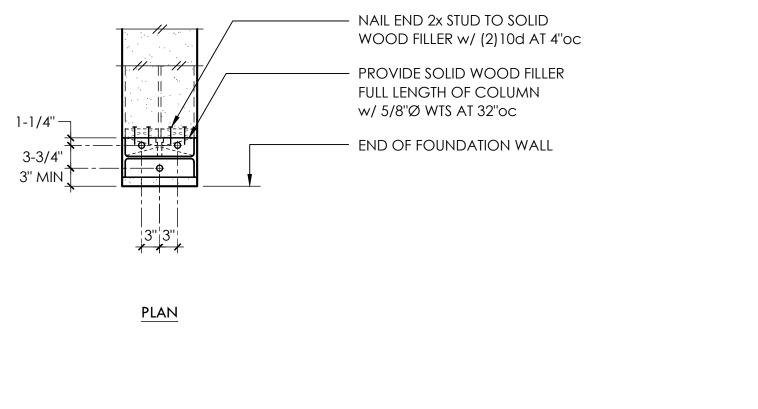
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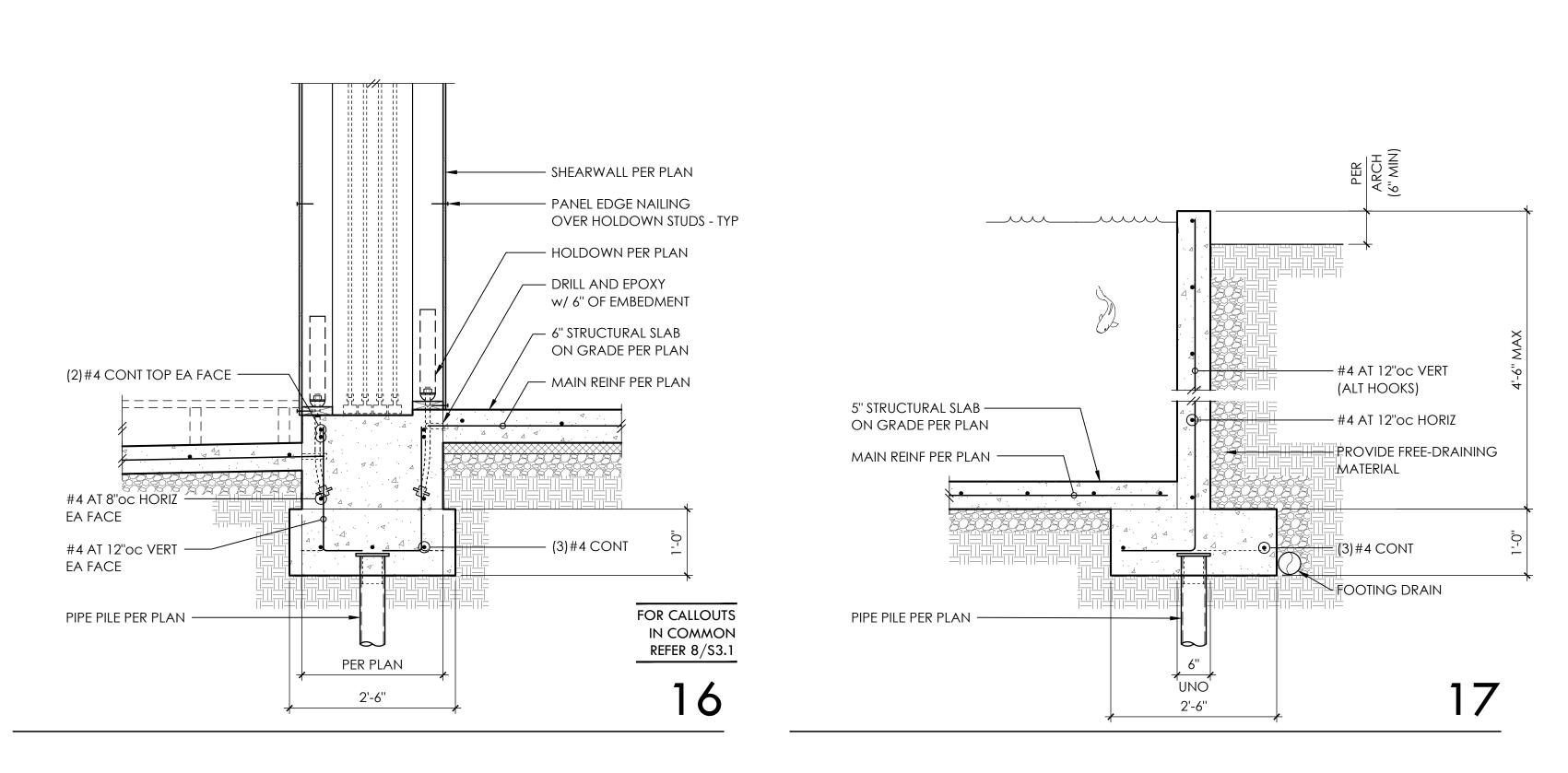
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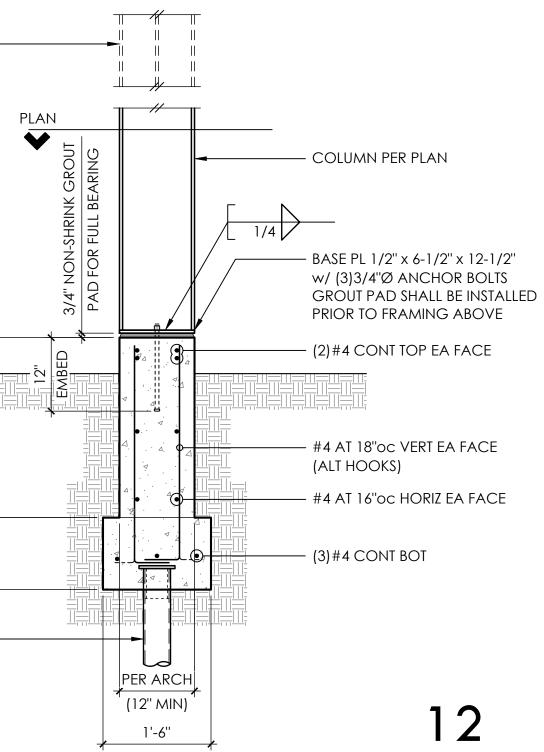


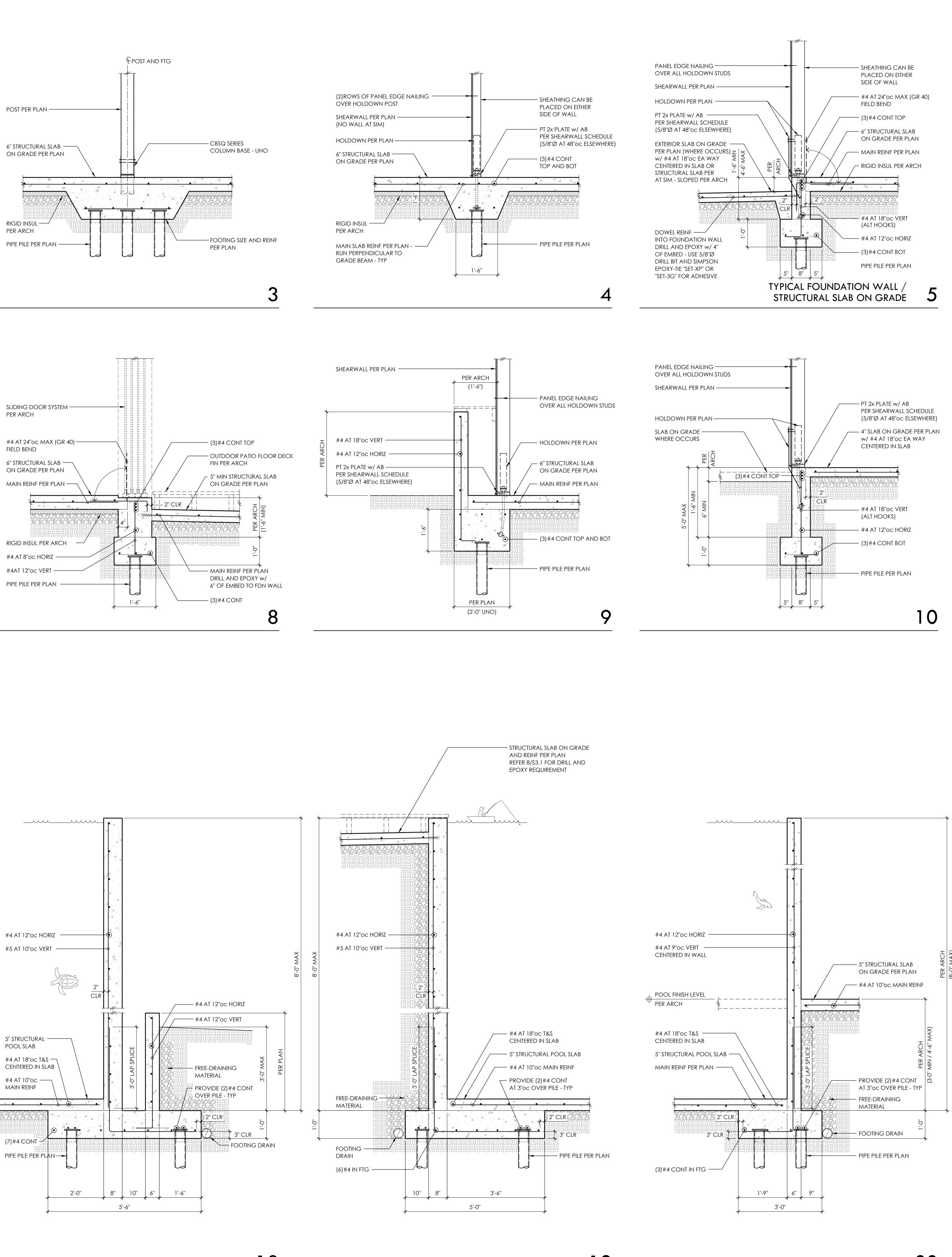


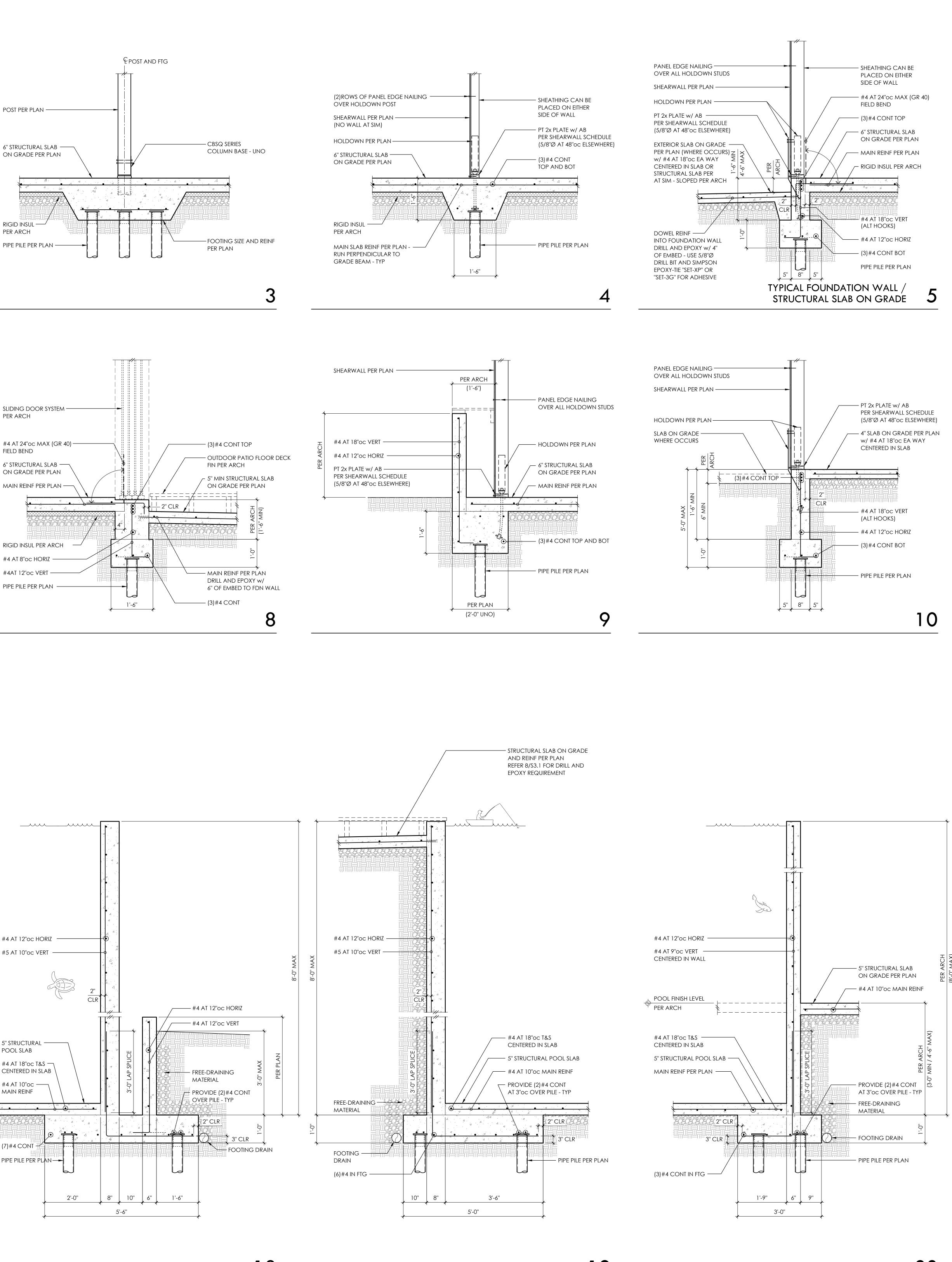


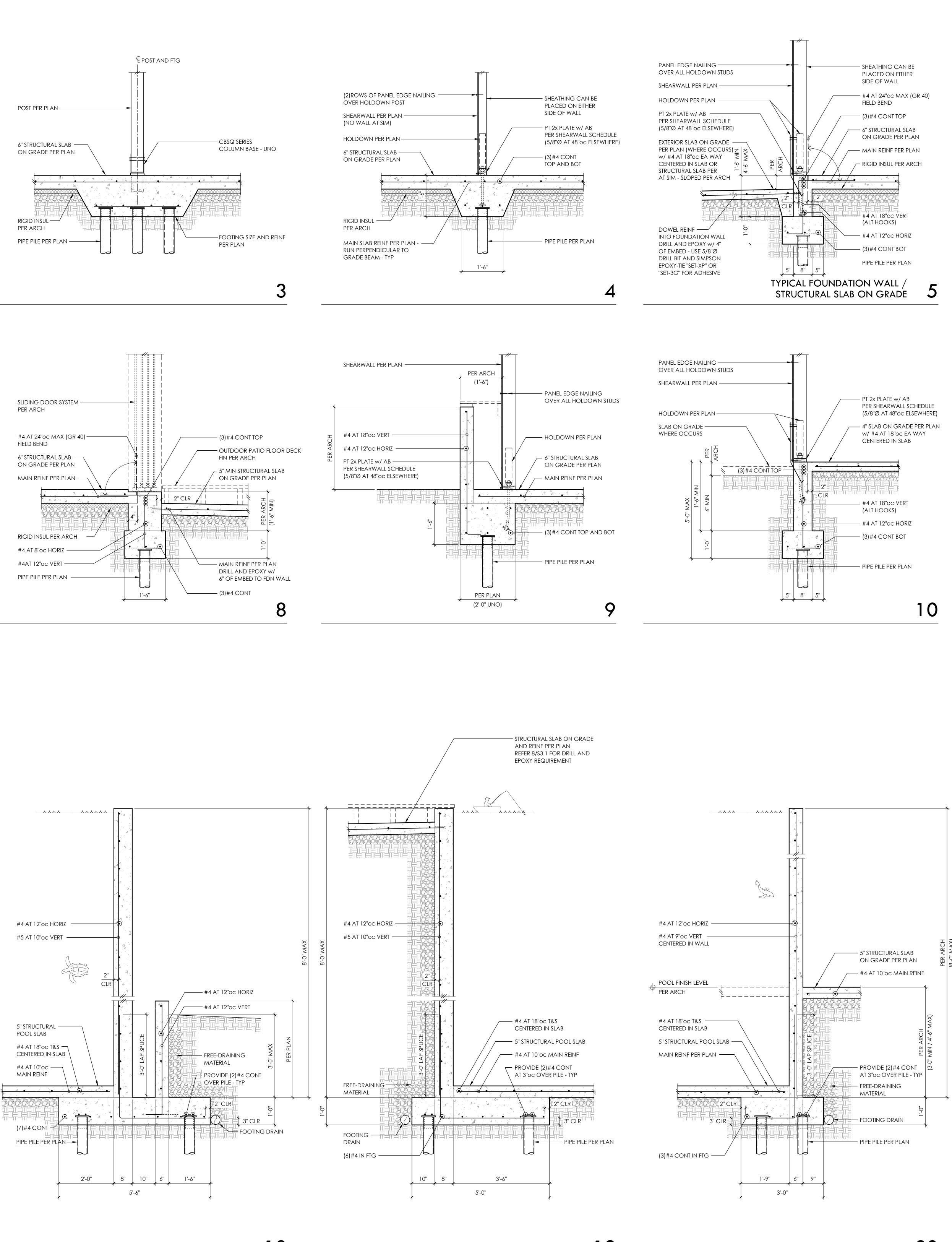


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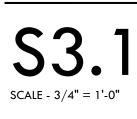
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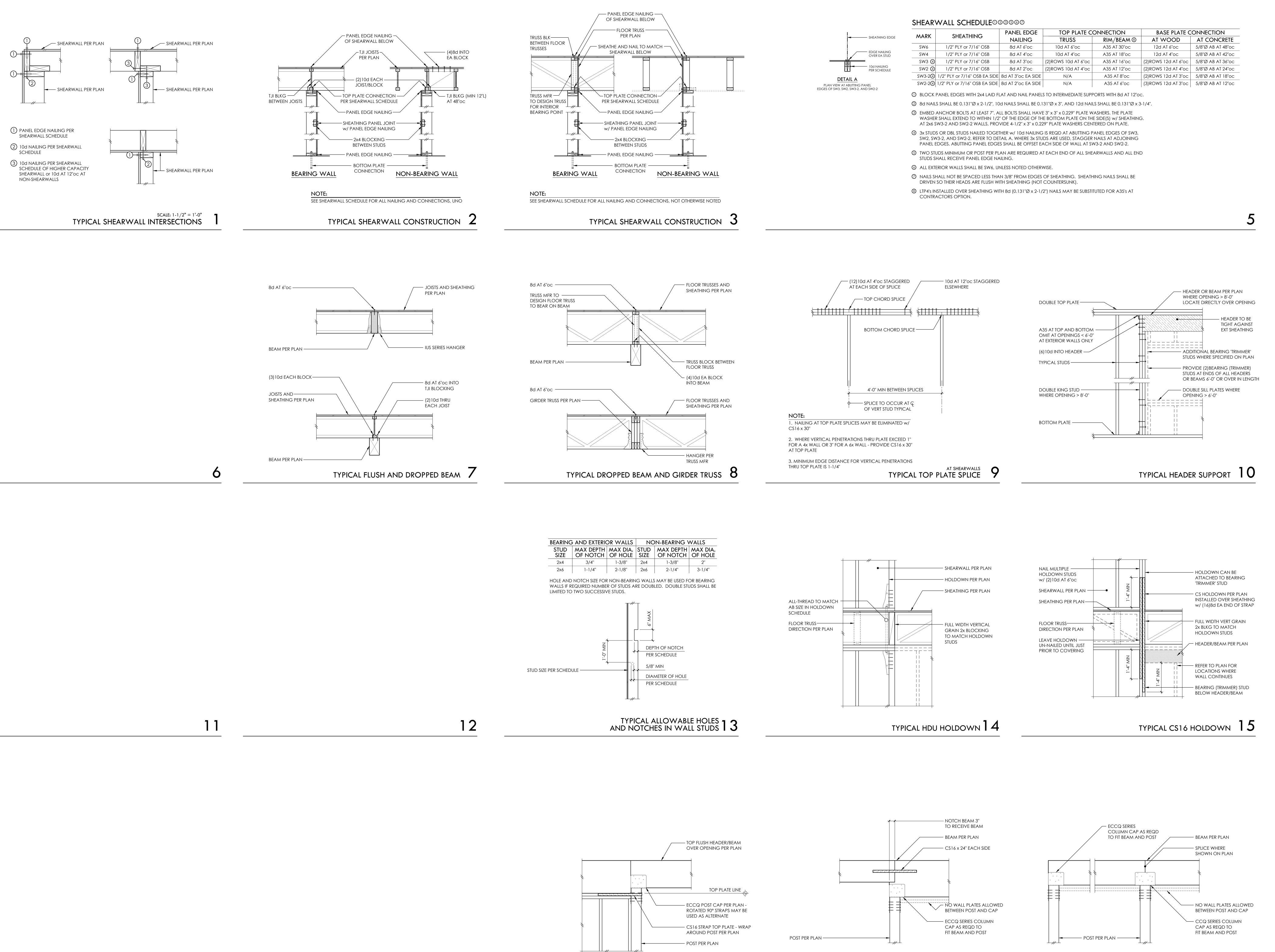
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CONCRETE DETAILS



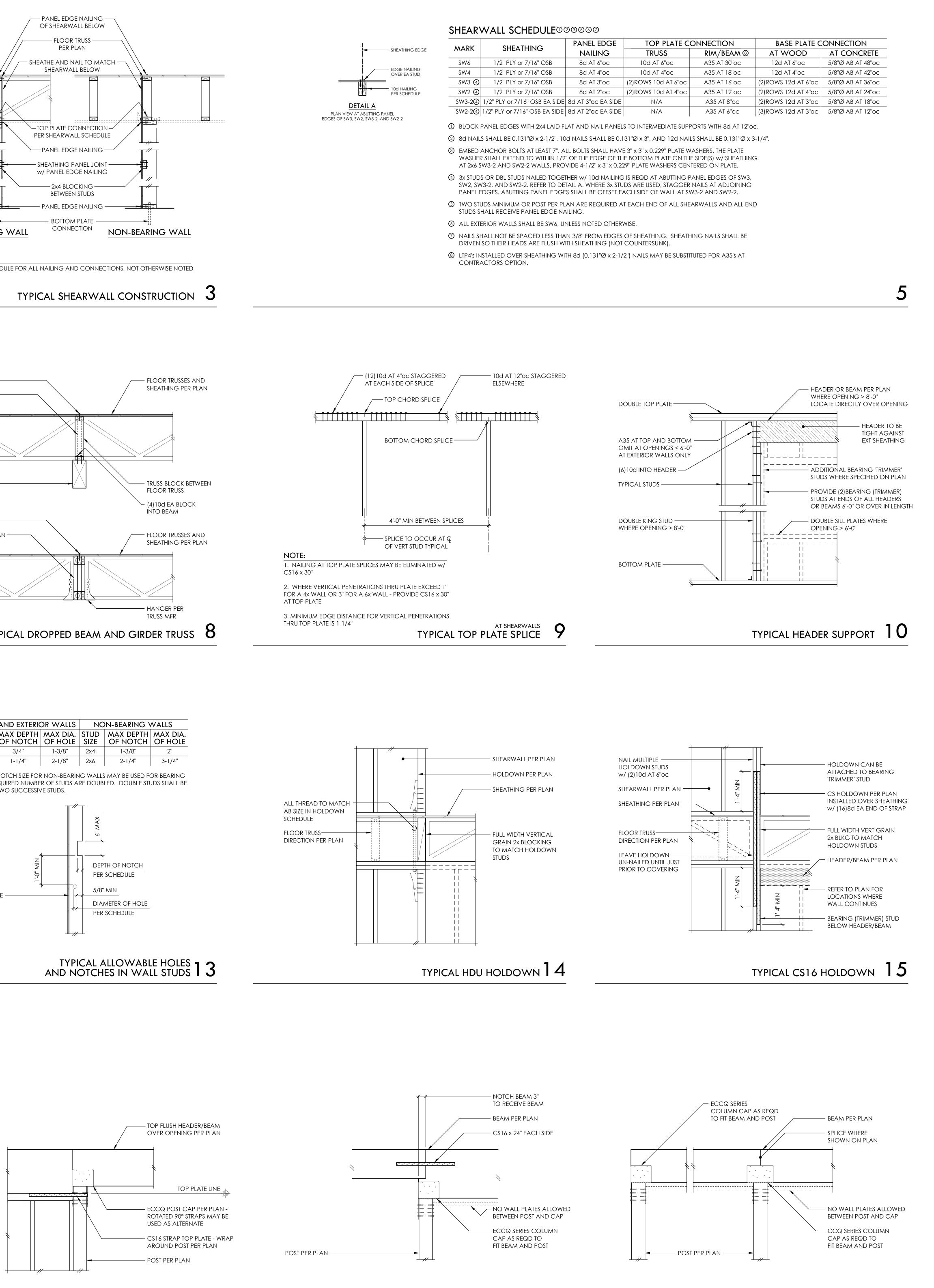
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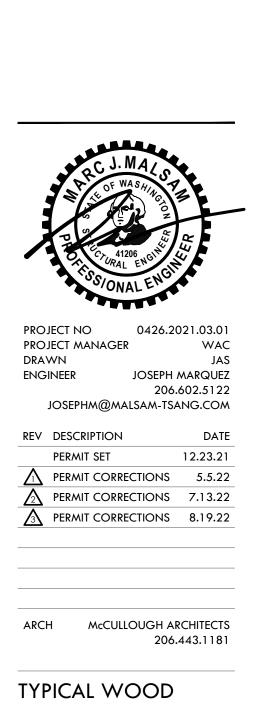


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TYPICAL HEADER/BEAM 18 end connection over wdo/sgd 18

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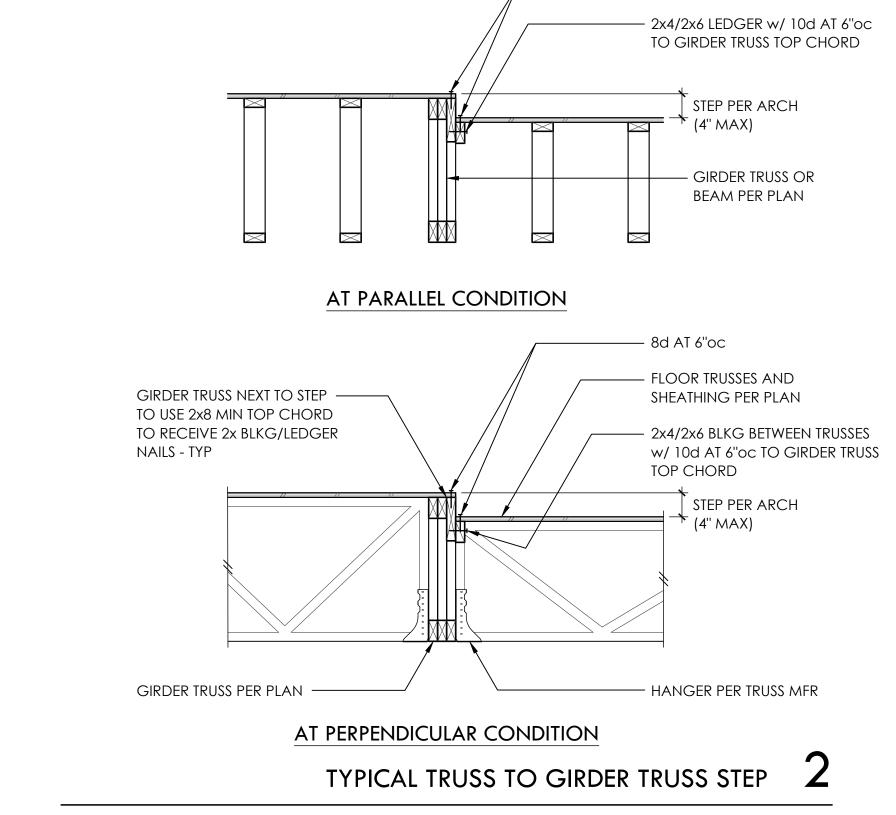
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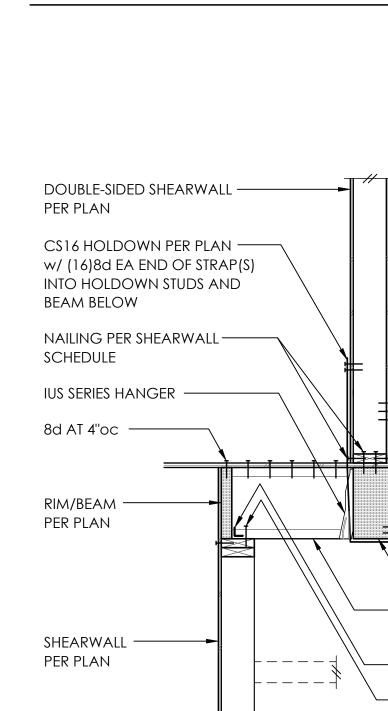


S4.0 SCALE - 3/4" = 1'-0"

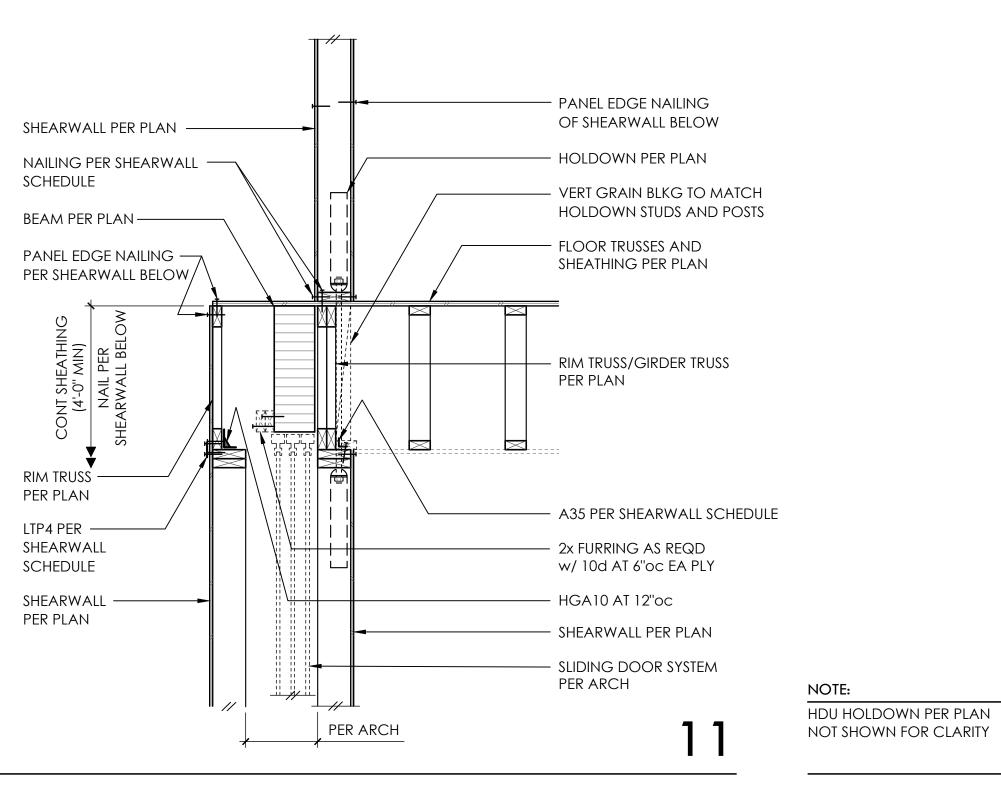
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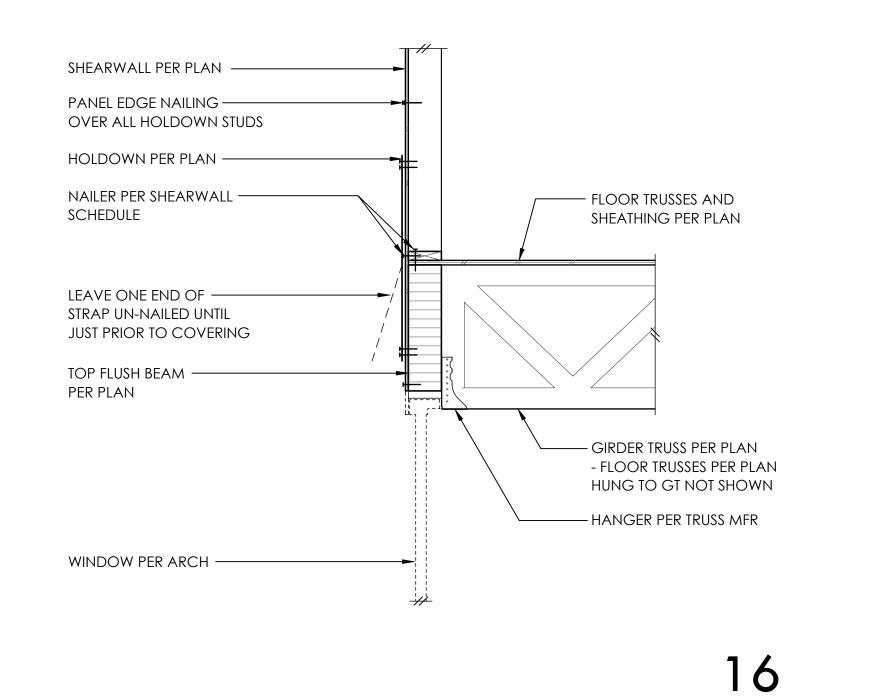


– 8d AT 6"oc



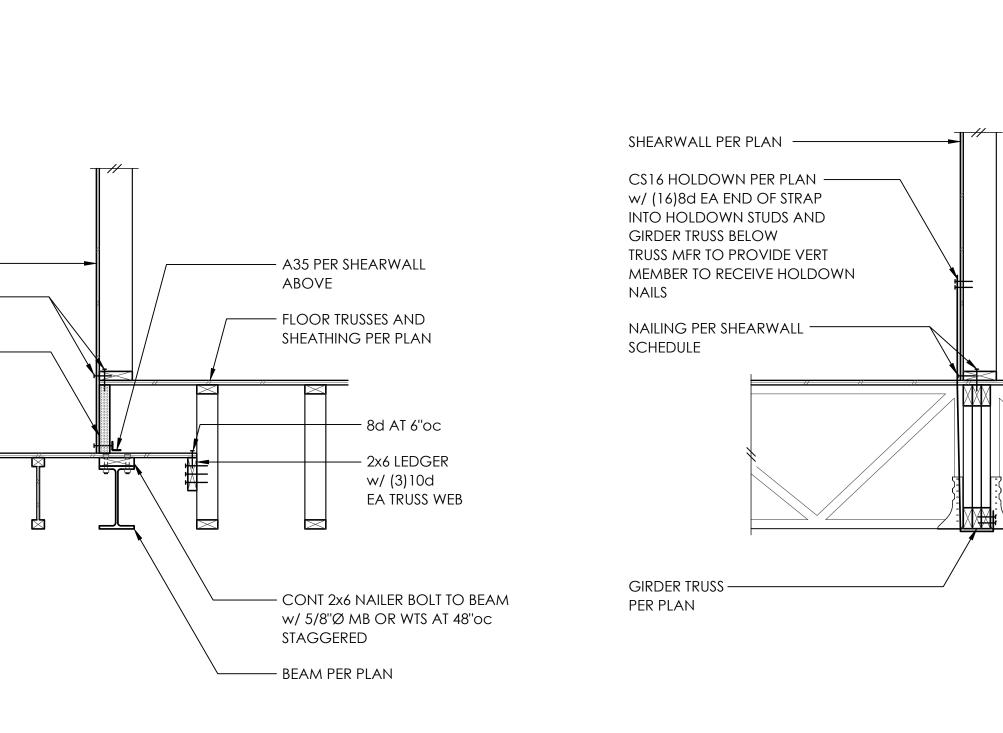






SHEARWALL PER PLAN _____ NAILER PER SHEARWALL ------SCHEDULE LSL 1-3/4" RIM - RIPPED -----to fit as reqd TJI RAFTERS AND -------Sheathing per plan



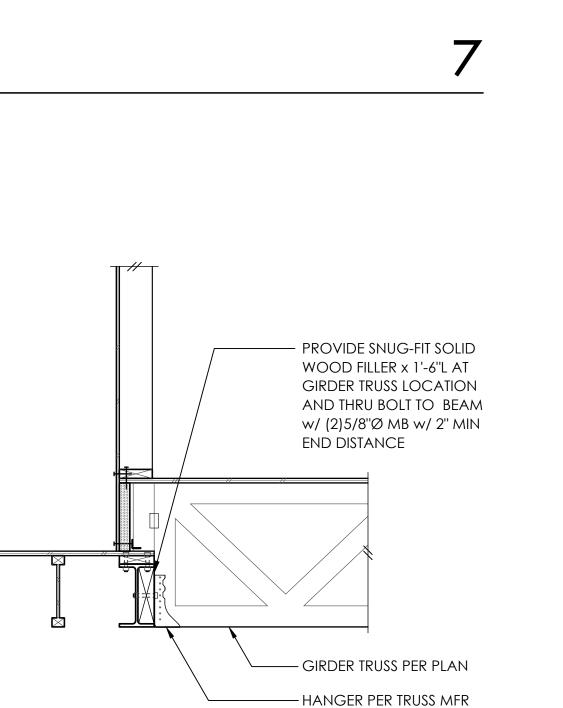


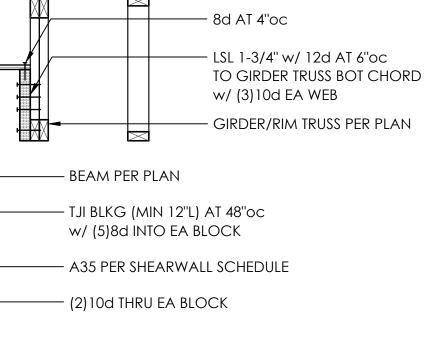
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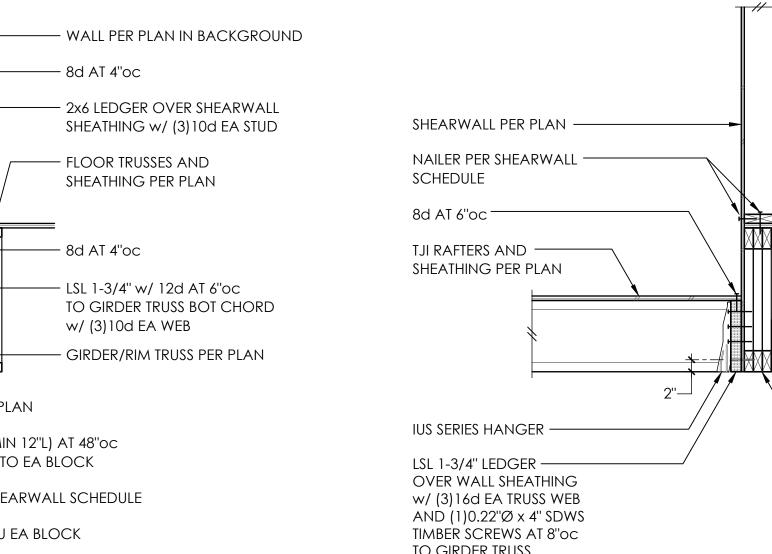
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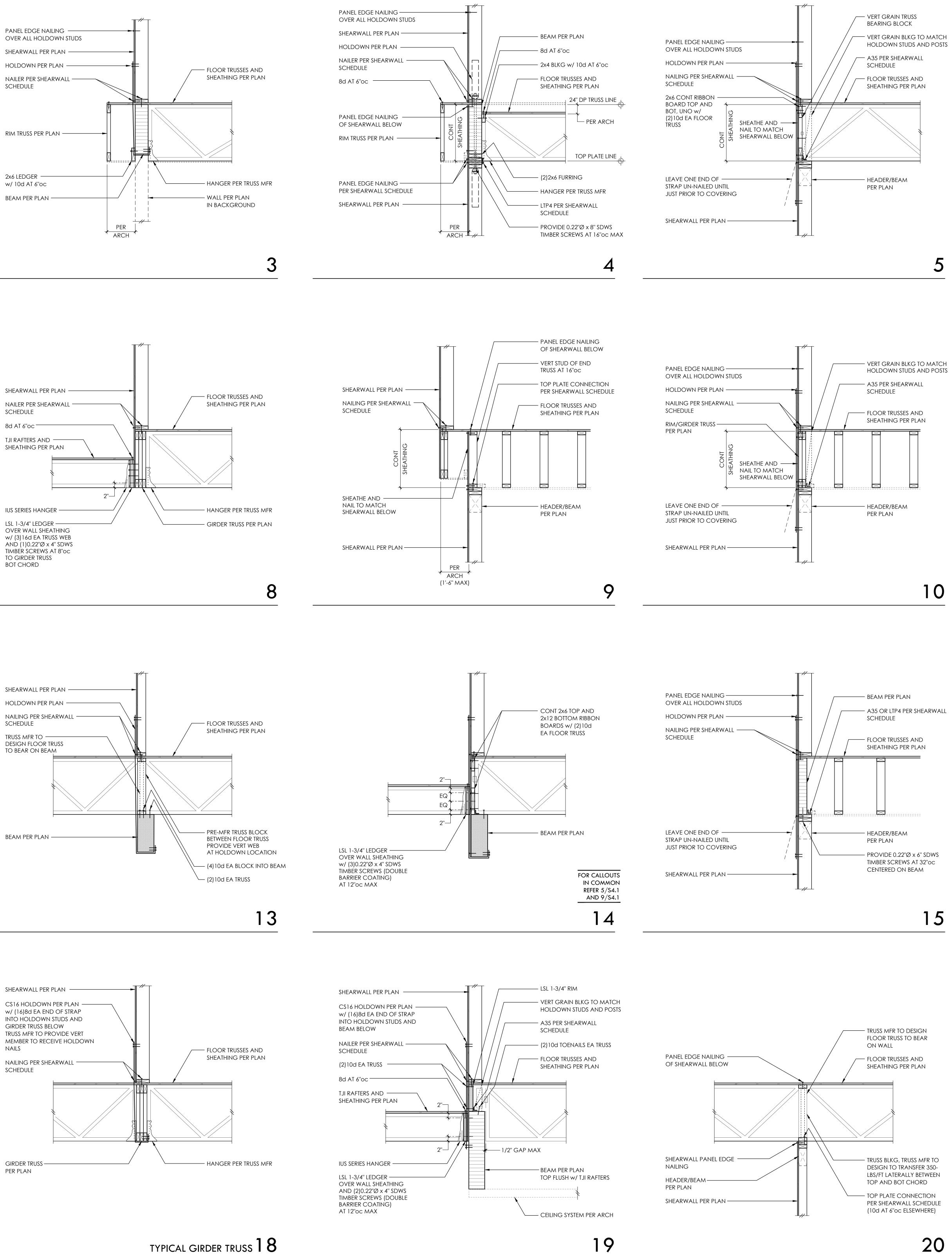
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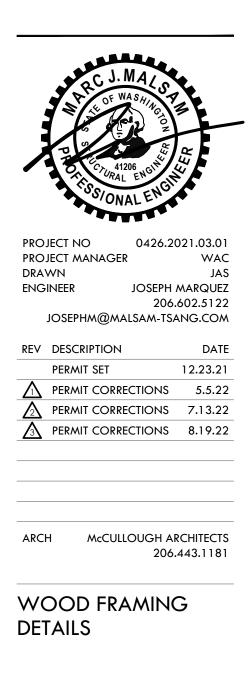




– 8d AT 4"oc





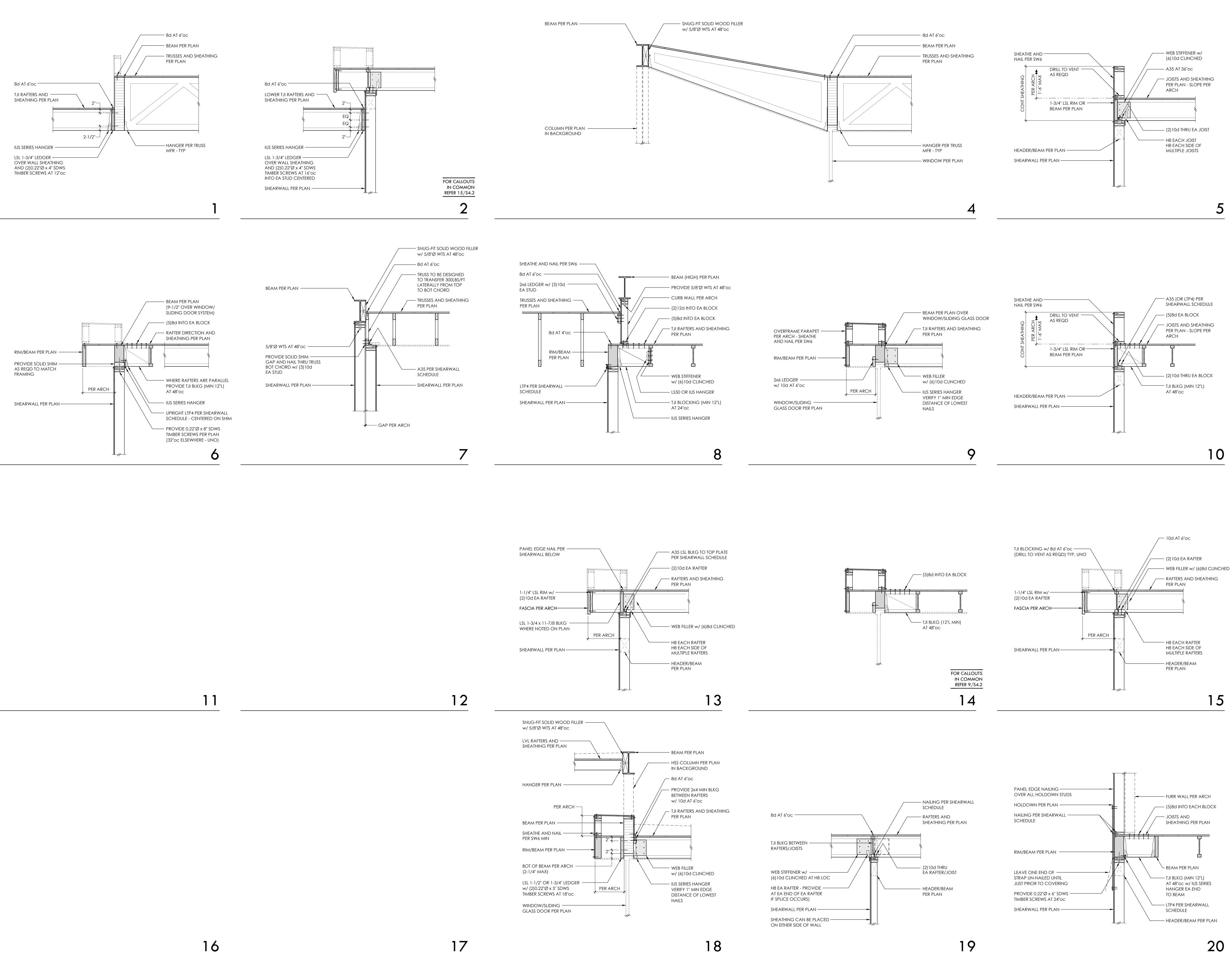


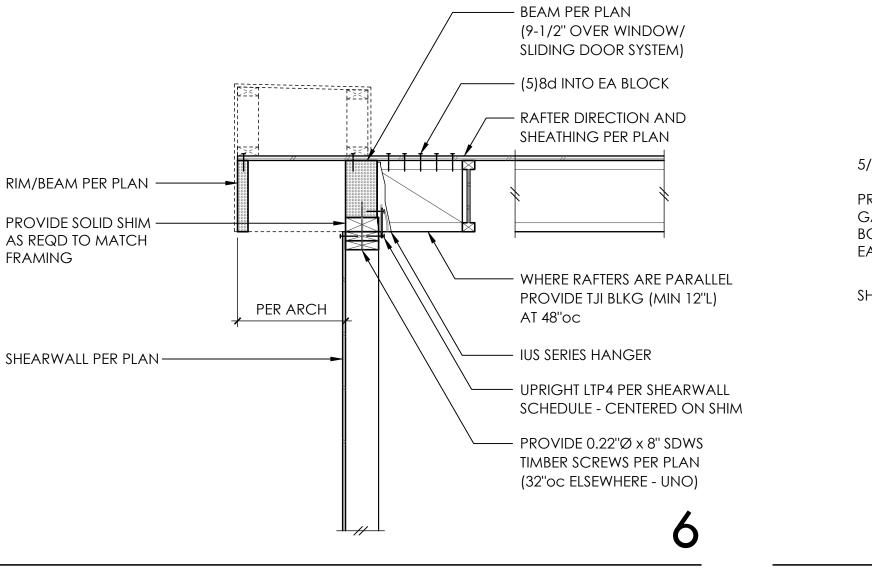
S4.1

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

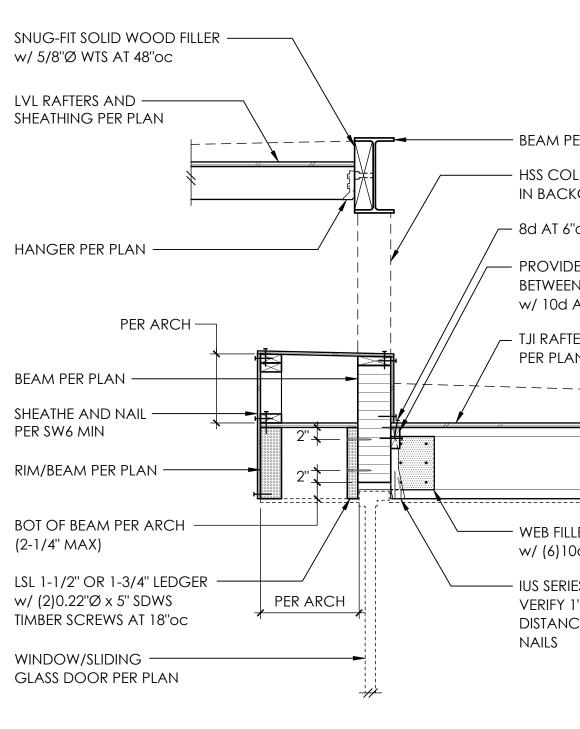




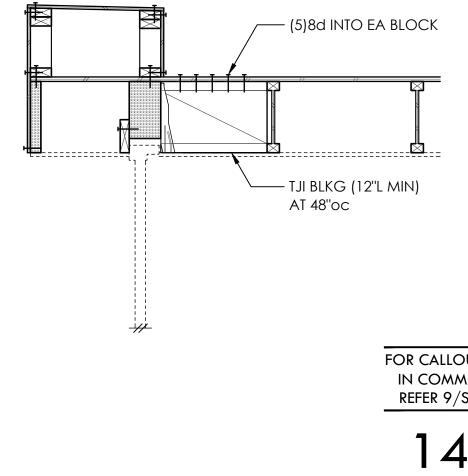


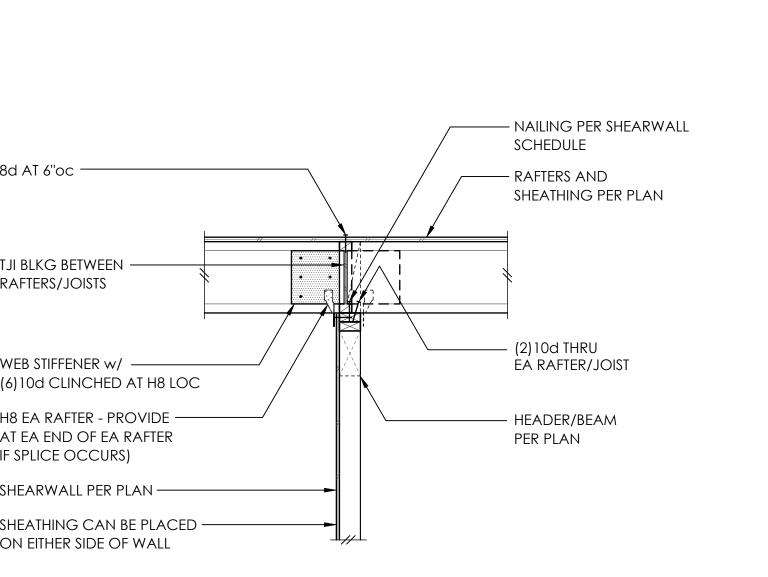


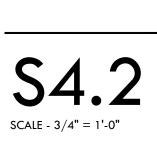












DETAILS



PROJECT NO 0426.2021.03.01

JOSEPHM@MALSAM-TSANG.COM

PERMIT CORRECTIONS 5.5.22 PERMIT CORRECTIONS 7.13.22 PERMIT CORRECTIONS 8.19.22

WAC

DATE

12.23.21

JOSEPH MARQUEZ

206.602.5122

JAS

PROJECT MANAGER

REV DESCRIPTION

PERMIT SET

DRAWN

ENGINEER

122 S JACKSON ST - SUITE 210 SEATTLE, WA 98104 - 206.789.6038

ESIDENCE MERCER WAY D. WA 98040

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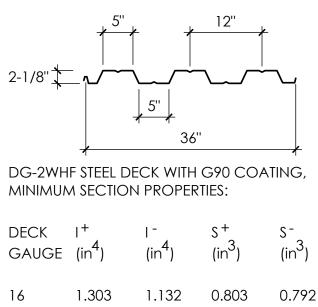
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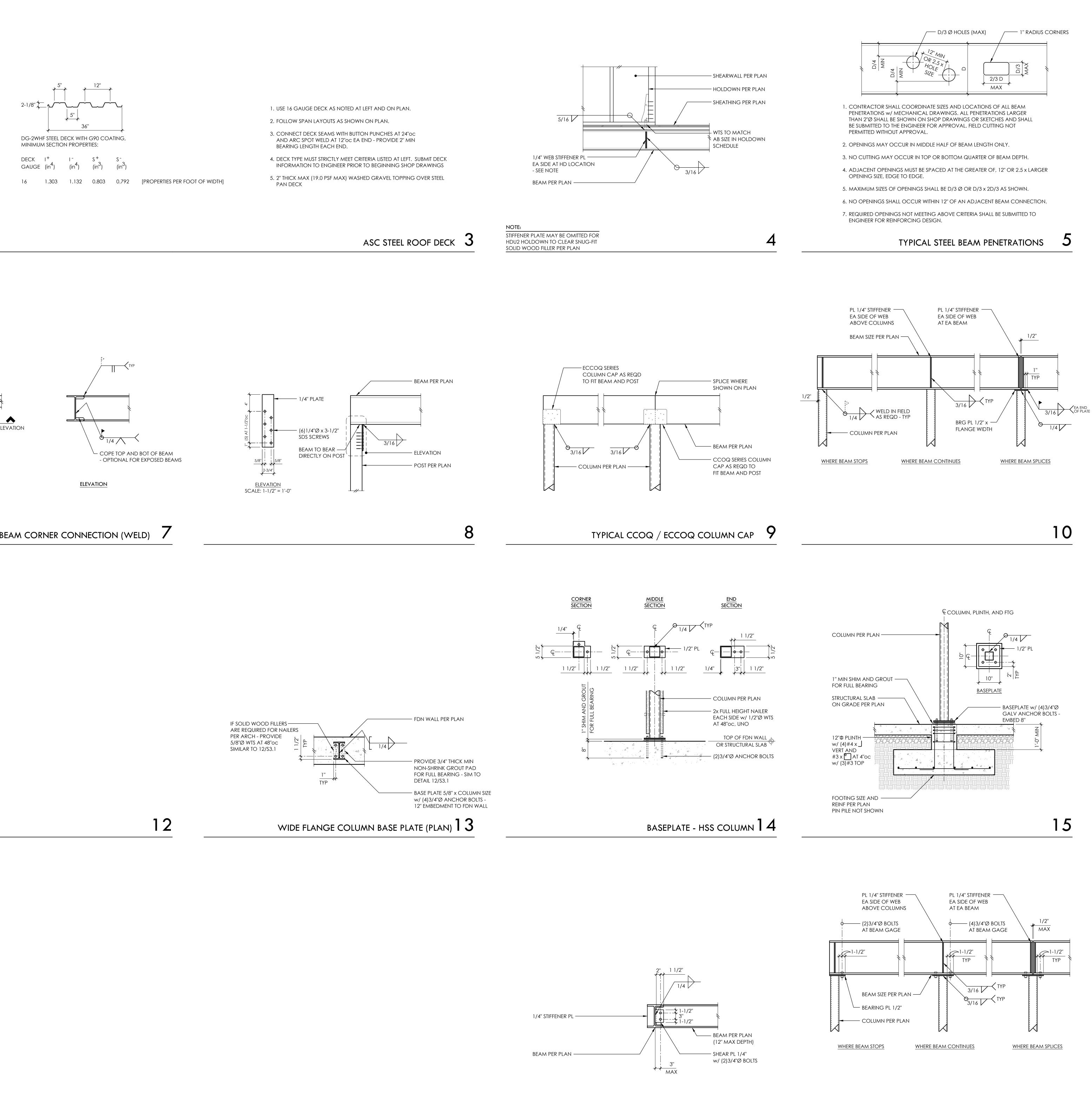
	BEAM PER PLAN
	<u>PLAN</u> <u>AT CORNER</u>
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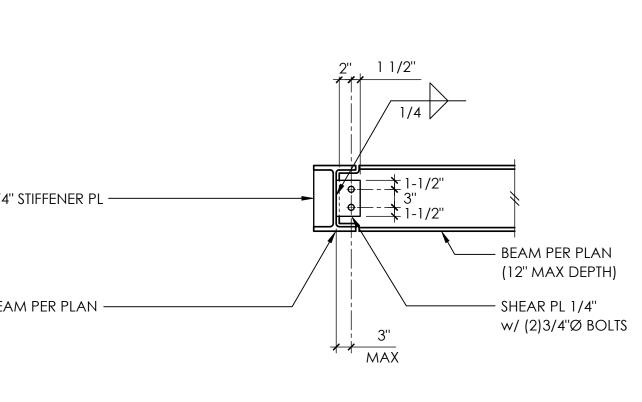
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- BEARING LENGTH EACH END.



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PROJECT NO 0426.2021.03.01 PROJECT MANAGER WAC DRAWN JAS JOSEPH MARQUEZ 206.602.5122 ENGINEER JOSEPHM@MALSAM-TSANG.COM DATE REV DESCRIPTION 12.23.21 PERMIT SET PERMIT CORRECTIONS 5.5.22 PERMIT CORRECTIONS 7.13.22 PERMIT CORRECTIONS 8.19.22 ARCH McCULLOUGH ARCHITECTS 206.443.1181

STEEL FRAMING DETAILS **SCALE** - 3/4" = 1'-0"

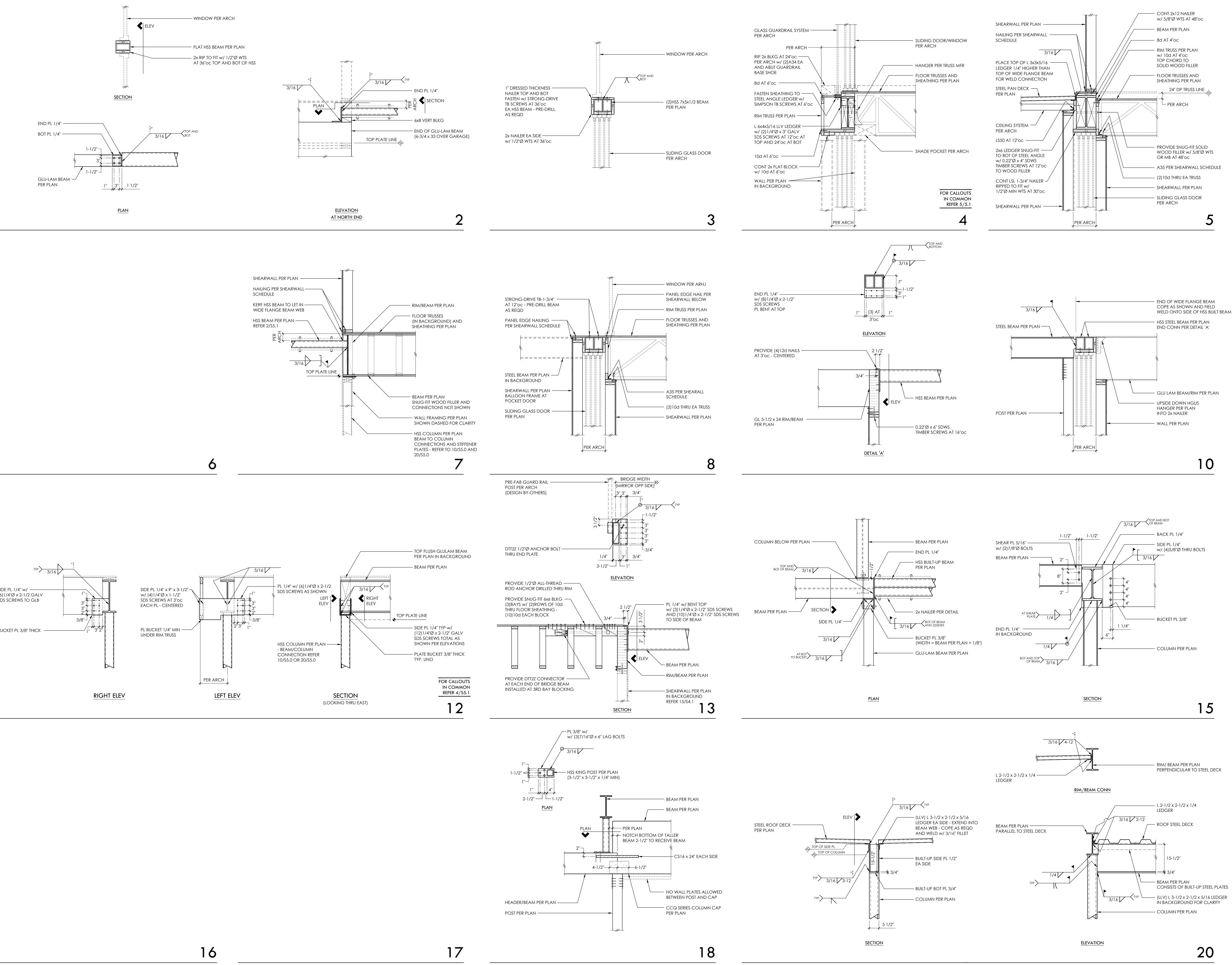
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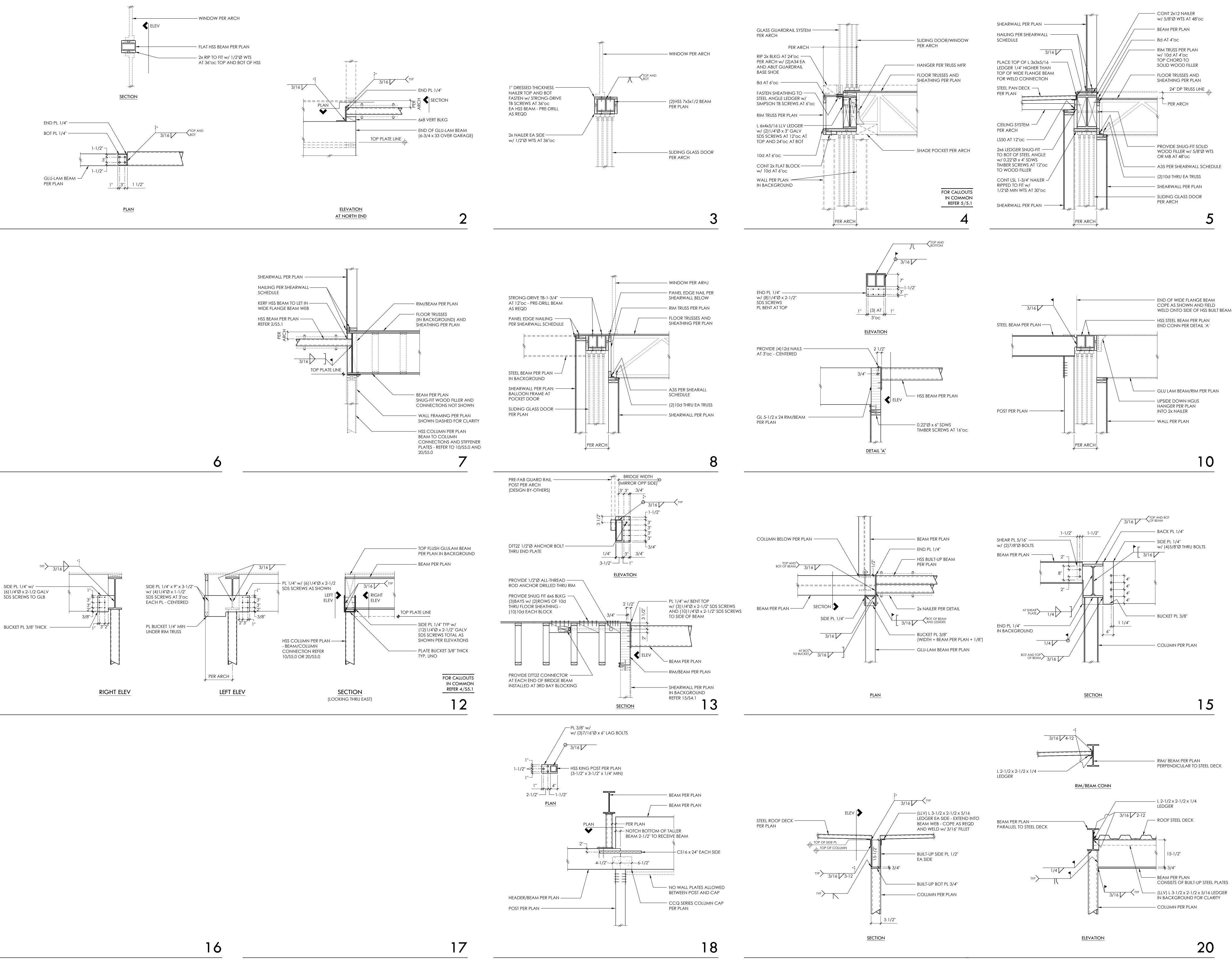
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0426.2021.03.01 PROJECT NO PROJECT MANAGER WAC DRAWN JAS ENGINEER JOSEPH MARQUEZ 206.602.5122 JOSEPHM@MALSAM-TSANG.COM DATE EV DESCRIPTION 12.23.21 PERMIT SET PERMIT CORRECTIONS 5.5.22 PERMIT CORRECTIONS 7.13.22 PERMIT CORRECTIONS 8.19.22 ARCH McCULLOUGH ARCHITECTS 206.443.1181

STEEL FRAMING DETAILS

