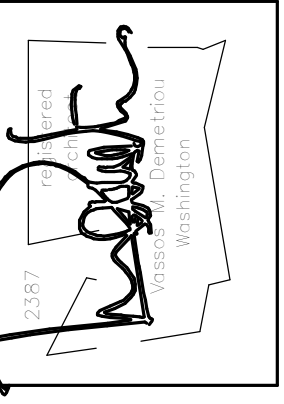


Ogden Point Residence - Lot C

BUILDING PERMIT DOCUMENTS



No.	Revision Date	Description

Drawn by: JAS
 Scale: 1/8" = 1'-0"
 Date: 02/15/18
 Purpose: building permit

0535 Lakewood Drive, Suite 200
 Kirkland, WA 98033
 425.822.1700
DEMETRIO
Architects PLLC
 5555 Lakewood Drive, Suite 200, Kirkland, Washington 98033 | 425.822.1700
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Ogden Point Residence - Lot C
 3675 W Mercer Way (Parcel #3623500273)
 Mercer Island, WA 98040

Sheet Title:
cover sheet
 Drawing Scale: 1/8" = 1'-0"

Project:
503.01
 Sheet:
A0.1

Ogden Point Residence - Lot C - Mercer Island, WA

abbreviations:

&	and	ML	match line
<	angle	NAT	not available
@	at	MAX	maximum
#	number, pounds	MECH	mechanical
(channel	MFR	manufacturer
A/C	air conditioning	MH	manhole(s)
AB	anchor bolt	MIN	minimum
ABV	above	MIR	mirror
ACC	air conditioning	MISC	miscellaneous
AD	additional	MO	masonry opening
ADJ	adjust, adjustable	N	north
AF	above finish floor	NTL	not listed
AL	aluminum	N	not
ALT	alternate	N/A	not applicable, not available
ALUM	aluminum	NAT	not available
ANOD	anodized	NIC	natural
ARCH	architect, architecture	NO	not in contract
AUX	auxiliary	NO	number
AVG	average	NOM	nominal
B/	bottom of	NTS	not to scale
back	back	NUM	number
BLDG	building	OA	overall
BLW	below	OC	on center
BM	beam, beamhead	OD	outer diameter
BTML	building setback line	OFCl	owner furnished contractor installed
BSL	bottom	OFU	owner furnished contractor installed overhead
CB	cabinet	OH	overhead, overhang
CB	catch basin, circuit breaker	OPP	opposite
CD	control density fill	OVFL	overflow
CF	cubic feet	PAV	pave, pavers, pavement
CI	cast iron	PERF	perforate, perforated
CIP	cast in place	PL	plate, property line
CL	control joint	PLY	ply
CJ	construction joint	PLM	plastic laminate
CL	centerline	PNL	panel
CLG	ceiling	PNT	paint
CLR	clear, clearance	PROP	propriety line
CMU	concrete masonry unit	PT	point
COL	column	PVC	poly vinyl chloride
CONC	concrete	R	riser, risers
CONN	connector, connector	RA	return air
CONST	construction	RAD	radius
CONT	continuous	RD	roof drain
CONTR	contractor, contract	REBAR	reinforcing bar
CSMT	casement	REF	reference, refrigerator
CY	cubic yard	REIN	reinforce, reinforcement
DBL	double	REMO	remove
DD	deck drain	REPL	replace
DET	detail	REQD	required
DI	diagonal	RM	room
DIAG	diagonal, diagram	RO	rough opening
DM	dimension	ROW	right of way
DIV	dimensional	RT	right
DM	divide, division	S	south
DR	down	SBK	setback
DR	door	SC	solid core
DS	downspout	SCHEM	schematic
DTL	detail	SD	storm drain, smoke
DW	dishwasher	SEC	section
DWG	drawing	SEF	safety sheet
E	east	SG	safely glazing
EA	each	SH	sheet
EF	exhaust fan	SIM	similar
EL	elevator	SL	slope
ELEC	electrical	SOG	slab on grade
ELEV	elevation	SPO	space(s)
ENCL	enclosure, enclosure	SPEC	specifications
ENGR	engineer	SQ	square
EQ	equal	ST	street
EQP	equipment	STD	standard
ESMT	esement	STL	steel
EST	estimate, estimated	STR	structural
EW	each way	SYS	system
EXH	exhaust	T	tee, tempered
EXIST	existing	TI	top of
EXP	expose, exposed, expansion	TAG	top of & groove
EXST	existing	TEL	telephone
EXT	exterior	TEMP	temporary, tempered
F	face of	THK	thickness
FE	face of	TOL	tolerance
FE	fire extinguisher	TV	television
FIN	finish, finished	TYP	typical
FLEX	flexible	UG	underground
FLR	floor	UL	underwriter's laboratory
FND	foundation	UNO	unless noted otherwise
FO	face of	V	valve, volt, vent
FP	fireproof	VVAR	variable, varies
FR	fire resistant	VB	vapor barrier
FS	foot, feet	VERT	vertical
FTG	footing	VC	vertical grain
G	gas, gage	VTO	vent to outside
GA	gas, gage	W	west, wide, width
GALV	galvanized	WD	water
GC	general contractor	WC	water closet
GL	glass, glaze, glazing	WD	wood
GLB	glass block, glue-lam	WC	walk-in closet
GRD	grade	WIN	window
GWB	gypsum wallboard	WP	waterproof
GYP	gypsum, gypcrete	WR	water resistant
H	high	WR	water resistant
HB	hose bibb	W	west, wide, width
HDR	header	WC	water closet
HDWD	hardwood	WD	wood
HM	hollow metal	WC	walk-in closet
HRR	handrail	WIN	window
HSS	hollow steel section	WP	waterproof
HT	height	WR	water resistant
HVAC	heating, ventilation & air conditioning	W	west, wide, width
HWC	hot water tank/heater	WD	water
HYD	hydrant	WC	water closet
ID	inner diameter	WD	wood
IN	inch	WC	walk-in closet
INCL	include(s) (ed) (ing)	WIN	window
INSL	insulate, insulation	WP	waterproof
INST	install, installed	WR	water resistant
INT	intersection, interior	W	west, wide, width
INV	INVERT, INVERSE	WD	water
JST	joist	WC	water closet
JT	joint	WD	wood
L	left, long, length	WC	walk-in closet
LAM	laminated, laminated	WIN	window
LBL	label	WP	waterproof
LF	lineal feet	WR	water resistant
LT	light	W	west, wide, width
LVL	lighting	WD	water
LTG	level	WC	water closet

general project notes:

GENERAL REQUIREMENTS

Applicable Codes and Regulations:

- International Residential Code (IRC) 2012 as adopted and modified by City of Mercer Island
- Mechanical Code - International Mechanical Code (IMC) 2012
- Gas Code - Liquefied Petroleum Gas Code (NFPA 58) and National Fuel Gas Code (NFPA 54) for LP gas
- Energy Code - Washington State Energy Code (ESC) 2012 and International Fuel Gas Code as adopted and modified by City of Mercer Island
- Fire Code - International Fire Code (IFC) 2012 as adopted and modified by City of Mercer Island
- Electrical Code - Washington Cities Electrical Code
- Zoning Code - City of Mercer Island Municipal Code

Contractor Responsibilities: It is the responsibility of the contractor to ensure compliance and conformance with the various provisions within these ordinances and codes in all of the work. The General Contractor is responsible for coordinating all work including additional permits and subcontractor work.

Dimensions: Dimensions that are not stated as "maximum" or "minimum" are absolute. All dimensions are subject to conventional industry tolerances. Verify and coordinate dimensions among all drawings prior to construction. Written dimensions take precedence over scaled lengths and heights in all cases. Do not scale drawings.

Discrepancies: In the event of discrepancies or contradictory information in the drawings, notes, or specifications, it is the obligation of the contractor to notify the architect of the same and to obtain clarification from the architect before proceeding with the work. Any work done by the contractor after discovery of such discrepancy shall be done at the contractor's risk.

Inspections: Contractor shall be responsible for coordinating all building inspections. Required building inspections per IRC section R109 and WSEC 105:

- Foundation Inspection** - after forms are erected and reinforcing steel is placed
- Plumbing, mechanical, gas, and electrical systems inspection** - prior to cover-up
- Frame and masonry inspection** - after the roof, masonry, firestopping, draftstopping, and bracing are in place and after plumbing, mechanical, and electrical rough inspections are approved.
- Special Inspections as required by Engineer of Record**
- Wall Insulation Inspection** - after all wall insulation and vapor retarders in place and prior to wall covering.
- Other inspections required by the Building Official**

Work and Data by Others: The architect assumes no responsibility for, nor verifies the accuracy of, any engineering data supplied by others.

Submittals: Shop drawings are required for the following components:

- Items required by consultants. See individual consultant documentation for any shop drawings required by their respective disciplines
- Windows and doors
- Skylights and canopies
- Water closets, laundry rooms, kitchens, and other rooms
- Railing systems
- Gates and specialty doors
- Wine rack and shelving layouts
- Casework and built-ins
- Sauna and steam rooms
- Elevators
- Glass Floor Assemblies
- Other components called out in the Project Manual

Changes: Contractor initiated changes shall be submitted in writing to the architect and/or structural engineer for approval prior to fabrication or construction. Changes shown on shop drawings only do NOT satisfy this requirement.

All changes - whether drawing or field required - shall have revisions approved & filed for record w/ the city once the original submission has been approved and the permit issued. Charge will be made by city for all revision review and approvals including field inspections beyond that required under permit fees and paid for under estimated inspection fee.

As-Built Drawings: Contractor and subcontractors shall mark drawings for as-built condition. Mechanical, electrical, plumbing, and fire-protection drawings shall be revised for as-built conditions by their respective authors. Final as-built reproducible drawings shall be submitted to Owner's representative.

Safety: Contractor shall be responsible for all required safety precautions and the methods, techniques, sequences, or procedures required to perform the work.

Site Maintenance: Contractor shall maintain a trash bin in an area designated by the owner's representative for the collection of all construction debris. Contractor shall dispose of all debris and remove trash bin prior to occupancy. All surfaces shall be cleaned prior to occupancy.

Demolition Permit: A separate demolition permit is required for the removal of any existing structure.

FIRE-RESISTANT CONSTRUCTION

Occupancy Separation: The garage shall be separated from the residence and its attic area by not less than 1/2" gypsum board applied to the garage side. Garages shall be separated from all habitable rooms above and all structures supporting the floor/ceiling assembly by not less than 5/8" Type X gypsum board or equivalent. (Table R302.6)

Doors between the garage and the residence shall be minimum 1 3/8" thick solid wood, or 20-minute fire rated, and shall be equipped with a self-closing device. (R302.5.1)

Ducts in the garage and ducts penetrating the separation assemblies shall be min. 26 gage sheet steel and shall have no openings into the garage (R302.5.2)

Under-Stair Protection: Enclosed accessible space under stairs shall be protected with minimum 1/2" gypsum board on the enclosed side. (R302.7)

Fire Blocking: Provide fire blocking in concealed wall spaces of stud walls and partitions vertically at ceiling and floor levels at 10 feet max. horizontally, and at all interconnections of concealed vertical and horizontal spaces. Fire block concealed spaces between stair stringers at the top and bottom of run and between studs and in line with the run of the stairs if the walls under the stairs are unfinished. Fire stop with non-combustible materials in openings around all vents, pipes, ducts, chimneys, fireplaces, and similar openings which afford passage for fire at ceiling and floor levels. (R302.11 & R1003.19)

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Draftstopping: Draft stop floor/ceiling assemblies greater than 1,000 SF into approximately equal areas with 1/2" gypsum board parallel to the floor framing members. (R302.12)

EGRESS

Egress Openings: Emergency escape and rescue openings shall have a minimum net clear opening of 5.7 sq. ft. except the minimum net clear opening for emergency escape and rescue grade floor openings shall be 5.7 sq. ft. Where provided, they shall be greater than 44" above the adjacent floor. The minimum net clear opening height shall be 24". The minimum net clear opening width shall be 20". (R310.1)

Handrails: One handrail shall be provided at every stairway having four or more risers and shall be continuous for the full length of the flight. Provide 2 handrails where required by plan. Handrail height, measured above stair tread nosings, or finish surface of ramp slope, shall be uniform, not less than 34" and not more than 38". Handrails with a circular cross section shall have an outside diameter of at least 1.25" and not greater than 2" or shall provide equivalent graspability. If the handrail is not circular, it shall have a perimeter dimension of at least 4" and not greater than 6.25" with a maximum cross-section dimension of 2.25". (R311.1.7)

Guards: Guards shall be located along open-sided walking surfaces, mezzanines, stairways, ramps and landings which are located more than 30" above the floor or grade below and within 38" of the edge of the open side. Guards shall be 36" high minimum except guards whose top rail also serves as a stair handrail shall have a height not less than 34" and not more than 38" measured vertically from the leading edge of the stair tread nosing. (R312)

Open guards shall have balusters or ornamental patterns such that a 4" diameter sphere cannot pass through any opening except the triangular openings formed by the riser, tread and bottom rail at the open side of a stairway shall not allow passage of a sphere of 6" in diameter. Guards with a circular cross section shall have openings which allow passage of a sphere 4 3/8" in diameter. (R312.3)

FIRE PROTECTION SYSTEMS

Bidder Designed: Fire Protection systems shall be bidder designed. Designated subcontractors are responsible for the preparation of drawings and applications for appropriate required permits.

Sprinkler System: An NFPA 13 fire sprinkler system with monitored water flow and controls shall be installed throughout this project. Provide a dry system at unheated garages and attic spaces. The system shall be designed and the plans stamped by a person holding a Washington State Certificate of Competency. Contractor shall submit design to the Fire Department for approval. The system shall be installed by a state licensed sprinkler contractor.

Smoke Alarm System: An approved automatic smoke alarm system shall be provided and installed in accordance with the warning equipment provisions of NFPA 72. Smoke alarms shall be provided inside of each sleeping room, outside of each sleeping area, and on each story of the dwelling. Required smoke alarms shall be hardwired, interconnected, and have a battery backup. (R314)

Carbon Monoxide Alarms: Provide approved carbon monoxide alarms outside of each separate sleeping area. (R315)

INTERIOR ENVIRONMENT

Attic Ventilation: The net free ventilating area of enclosed attics and rafter spaces shall not be less than 1/150 of the area of the space ventilated. Where attics are permitted it 40% - 50% of the required ventilating area is provided by ventilators located in the upper portion of the space no more than 3' below the ridge or highest point of the roof. Flashings shall comply with AAMA 711. The flashing shall extend to the surface of the exterior wall finish. Flashing shall be installed at exterior window and door openings; intersections of chimneys or other masonry with frame or stucco walls; under and at the ends of masonry, wood or metal copings and sills; above projecting wood trim; where exterior porches, decks or stairs attach to a wall or roof assembly of wood-frame construction; at wall and roof intersections; at gutters. (R307.6 & R307.6.1)

Roof Flashing: Approved corrosion-resistant flashing shall be applied shingle-fashion in a manner to prevent entry of water into the wall. Self-adhering membrane flashings shall comply with AAMA 711. The flashing shall extend to the surface of the exterior wall finish. Flashing shall be installed at exterior window and door openings; intersections of chimneys or other masonry with frame or stucco walls; under and at the ends of masonry, wood or metal copings and sills; above projecting wood trim; where exterior porches, decks or stairs attach to a wall or roof assembly of wood-frame construction; at wall and roof intersections; at gutters. (R307.6 & R307.6.1)

Roof Assemblies and Structures

Roof Flashings: Flashing shall be installed at wall and roof intersections, wherever there is a change in roof slope or direction, at gutters, and around roof openings in a manner that prevents moisture from entering the wall and roof assemblies. A flashing shall be installed to divert the water away from where the eave of a sloped roof intersects a vertical side wall. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than 0.019". Self-adhered membranes shall comply with AAMA 711 (R903.2)

FIREPLACES AND CHIMNEYS

Factory-built Fireplaces: Factory-built fireplaces shall be UL 127-96 listed, labeled and installed in accordance with the conditions of their listing. They shall be installed with tight-fitting glass doors and outside source of combustion air (no less than 6 sq. in.) ducted to each firebox. (WSVIAQC 402.3 and R1004)

Factory-Built Chimneys: Factory-built chimneys shall be UL 127-96 listed, labeled, installed, and terminated in accordance with the manufacturer's installation instructions. (R1005)

Hearth Extensions: Hearth extensions of approved factory-built fireplaces shall be installed in accordance with the listing of the fireplaces and shall be readily distinguishable from the surrounding floor area. (R1004.2)

Flue Clearances: Metal flue venting gas appliances shall have a minimum net clearance to combustible materials as required by the appliance manufacturer in accordance with the listing of the flue.

GLASS AND GLAZING

Glazing shall be in accordance with IRC section 908 and Washington State Safety Glass Law.

Exterior Glazing: All exterior wall glazing shall be double-glazed and comply with the Washington State Energy Code (WAC 51-11).

Safety Glazing: Install in areas subject to human impact (R308.4). Such hazardous locations include:

- Glazing in fixed and operable panels of swinging, sliding and bifold doors.
- Glazing in a fixed or operable panel adjacent to a door where the nearest vertical edge is within a 24 inch arc of the door in a closed position and whose bottom edge is less than 60 inches above the floor or walking surface except for:
 - decorative glazing;
 - where there is an intervening wall;
 - glazing in the wall perpendicular to the latch side of the door;
 - adjacent to a closed door less than 3 feet deep (must comply with R308.4.3)
 - adjacent to the fixed panel of patio doors.
- Glazing in an individual or fixed panel that meets all of the following conditions:
 - Exposed area of an individual panel greater than 9 square feet.
 - Bottom edge less than 18 inches above the floor.
 - Top edge greater than 36 inches above the floor.
 - One or more walking surfaces within 36 inches horizontally of the glazing.
- All glazing in railings, regardless of an area or height above walking surface. Included are structural baluster panels and nonstructural in-fill panels.
- Glazing in walls, enclosures, or fences for hot tubs, spas, whirlpools, saunas, hot steam rooms, bathtubs, showers, and indoor or outdoor pools where the bottom exposed edge of the glazing is less than 60 inches above any standing or walking surface and within 60 inches horizontally of the walking surface.
- Glazing adjacent to stairways, landings, and ramps within 36 inches horizontally of a walking surface when the bottom exposed edge of the glass is less than 36 inches above the adjacent walking surface. Except when a rail is installed on the accessible side of the glazing 34" to 38" above the walking surface.
- Glazing adjacent to the landing at the bottom of a stairway within 60 inches horizontally of the bottom tread when the exposed surface of the glazing is less than 36 inches above the nose of the tread. Except when the glazing is protected by a guard complying with section R312 and the glass is more than 18" from the guard.

Energy Certificate: A permanent certificate shall be posted on or within three feet of the electrical panel. The certificate shall be completed by the builder or registered design professional. The certificate shall list the R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, below-grade walls and/or floor), and ducts outside the conditioned spaces; U-factors for fenestration; and the solar heat gain coefficient (SHGC) of fenestration; and the results from any required duct system and building envelope air leakage testing. Where more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the type and efficiency of heating, cooling, and service water heating equipment. Where a gas-fired unvented room heater, electric furnace, or baseboard electric heater is installed, the certificate shall list this as appropriate. (WSEC R401.3)

STRUCTURAL SYSTEMS

Structural Systems: All structural systems (such as trusses) 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.

Total U/A Alternatives: If the total building thermal envelope U/A is less than or equal to the total U/A resulting from using the prescribed U-factors, the building shall be considered to be in compliance. (WSEC R402.1.4)

PRESCRIPTIVE APPROACH

fenestration maximum U-factor: 0.25
slight maximum U-factor: 0.25

required R-value at ceilings: R-49
required R-value at single rafter- or joist-vented ceilings: R-38
required R-value at wood framed walls: R-21 int
required R-value at headers: R-10
required R-value at mass walls: R-21
required R-value at walls below grade: R-10 exterior
R-15 interior
R-21 cavity + TB
R-30
R-10 perimeter
R-10 continuous

required R-value at floors: R-38
required R-value at slabs on grade: R-10 continuous

Luminaires: Recessed luminaires installed in the building thermal envelope shall be Type I-rated and certified as having an air leakage rate compliant with R402.4.4. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

A minimum of 75% of permanently installed lamps in lighting fixtures shall be high-efficacy lamps. (WSEC 404.1)

ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS

Energy Credits Required: Each dwelling shall comply with sufficient options from Table R406.2 so as to achieve the following minimum number of credits:

Medium Dwelling Unit	3.5 credits
Energy Credits Provided:	See WSEC worksheet provided.
1b Efficient Building Envelope	1.0 credit
3b High Efficiency HVAC equipment	1.0 credit
5a Efficient Water Heating	1.5 credit
Total =	3.5 credits

MECHANICAL SYSTEM CRITERIA

Bidder Designed: Mechanical systems, electrical systems, and plumbing systems shall be bidder designed. Subcontractors designated to accomplish the above will be responsible for the preparation of drawings and applications for appropriate required permits.

Equipment Sizing: Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies. (WSEC R403.8)

Ventilation: Provide source specific and whole house ventilation as required by the IRC M1507 and IMC.

Whole House Ventilation: Intermittent whole house ventilation shall be integrated with the forced-air heating system per IMC 403.8.7 and M1507.3.5. Intermittent whole house ventilation shall be provided for the forced-air system no closer than 4 feet upstream of the unit. A minimum filtration shall be provided at the forced-air unit with adequate access to filters for maintenance and replacement. (IMC 403.8.8.2)

Mechanical ventilation system fans shall meet the efficiency requirements of WSEC Table R403.5.1 unless the fans are integral to tested and listed HVAC equipment and are powered by an electronically commutated motor. (WSEC R403.5.1)

Piping: Insulation for hot water pipe shall have a minimum thermal resistance of R-4 (WSEC R403.4.2). Cold water pipes located in unconditioned spaces shall be insulated in accordance with the Washington State Plumbing Code (Chapter 51-56 WAC).

Mechanical system piping capable of carrying fluids above 105° F or below 55° F shall be insulated to a minimum of R-6. (WSEC R403.3)

Areas of Moisture: When HVAC units or water heaters are placed in an area susceptible to moisture, all pilot lights, burners, switches, or heating elements shall be located at least 18" above the floor slab.

Water Heaters: Provide seismic anchor straps for all water heaters. (UPC 508.2)

All hot water tanks shall be equipped with:

- Thermal expansion tank if the water system is equipped with a check valve, backflow preventer, or any other normally closed device that prevents dissipation of building pressure back into the water main. (IFGC 608.3)
- Combination pressure and temperature relief valve installed in an approved location based on the water-heating device's listing requirements and manufacturer's instructions. (IFGC 608.3)

Heating Units: Every dwelling unit shall be provided with heating facilities capable of maintaining a minimum room temperature of 68° F at a point 3' above the floor and 2' from exterior walls in all habitable rooms at design temperature. (R303.9)

Fuel fired appliances shall not be located in or obtain combustion air from sleeping rooms, bathrooms, toilet rooms, storage closets, or in a space that opens only into such rooms unless the appliance is a direct-vent appliance that obtains combustion air from the outdoors or a solid fuel-fired appliance, or the room meets the required volume criteria of section 304.5. (IMC 303 and IFGC 303)

Appliances installed within compartments, alcoves, or basements shall be provided with access by an opening of door and an unobstructed passageway measuring not less than 24" wide and large enough to allow position and whose bottom edge is less than 60 inches above the level service space of not less than 30" deep and the height of the appliance, but not less than 30", is present at the front or service side of the appliance with the door open (IMC 306.2). All clearances shall be provided for warm air furnaces in accordance with the terms of their listings. Clearances and access, under floor spaces per IMC 306.4. Attics and/or furnished spaces per IMC 306.3. Roofs and/or outside walls per IMC 306.5.

Combustion Air: When a gas furnace is installed in a confined space where the volume of the space is not greater than 50 cu. ft./1000 BTUH of the appliance input rating, openings may be used to connect indoor spaces. Two permanent openings shall be provided, one within 12" of the floor and one within 12" of the ceiling. Each opening shall have a minimum free area of 1 sq. in./1,000 BTUH of the total input rating of all appliances in the space, but not less than 100 sq. in. The minimum dimension of air openings shall be not less than 3". (IFGC 304.5)

Outside or return air for a forced-air heating system shall not be taken from a closet, bathroom, toilet room, kitchen, garage, mechanical room, boiler room, furnace room, or attic. (IFGC 618.5)

Gas venting: Gas venting system to be used shall be in accordance with IFGC sec. 503.

Vent connectors (of single-wall corrosion-resistant pipe) shall be installed per IFGC 503.7. Clearances per IFGC table 503.10.5.

Ductwork: Insulate ducts to a minimum of R-8. Ducts located completely inside the building thermal envelope may be excluded.

energy code compliance:

Building Thermal Envelope: The building thermal envelope shall meet the requirements of Sections R402.1.1 through R402.1.4. (WSEC R402.1)

Total U/A Alternatives: If the total building thermal envelope U/A is less than or equal to the total U/A resulting from using the prescribed U-factors, the building shall be considered to be in compliance. (WSEC R402.1.4)

PRESCRIPTIVE APPROACH

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Ventilation: Provide source specific and whole house ventilation as required by the IRC M1507 and IMC.

Whole House Ventilation: Intermittent whole house ventilation shall be integrated with the forced-air heating system per IMC 403.8.7 and M1507.3.5. Intermittent whole house ventilation shall be provided for the forced-air system no closer than 4 feet upstream of the unit. A minimum filtration shall be provided at the forced-air unit with adequate access to filters for maintenance and replacement. (IMC 403.8.8.2)

Mechanical ventilation system fans shall meet the efficiency requirements of WSEC Table R403.5.1 unless the fans are integral to tested and listed HVAC equipment and are powered by an electronically commutated motor. (WSEC R403.5.1)

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Mechanical system piping capable of carrying fluids above 105° F or below 55° F shall be insulated to a minimum of R-6. (WSEC R403.3)

Areas of Moisture: When HVAC units or water heaters are placed in an area susceptible to moisture, all pilot lights, burners, switches, or heating elements shall be located at least 18" above the floor slab.

Water Heaters: Provide seismic anchor straps for all water heaters. (UPC 508.2)

All hot water tanks shall be equipped with:

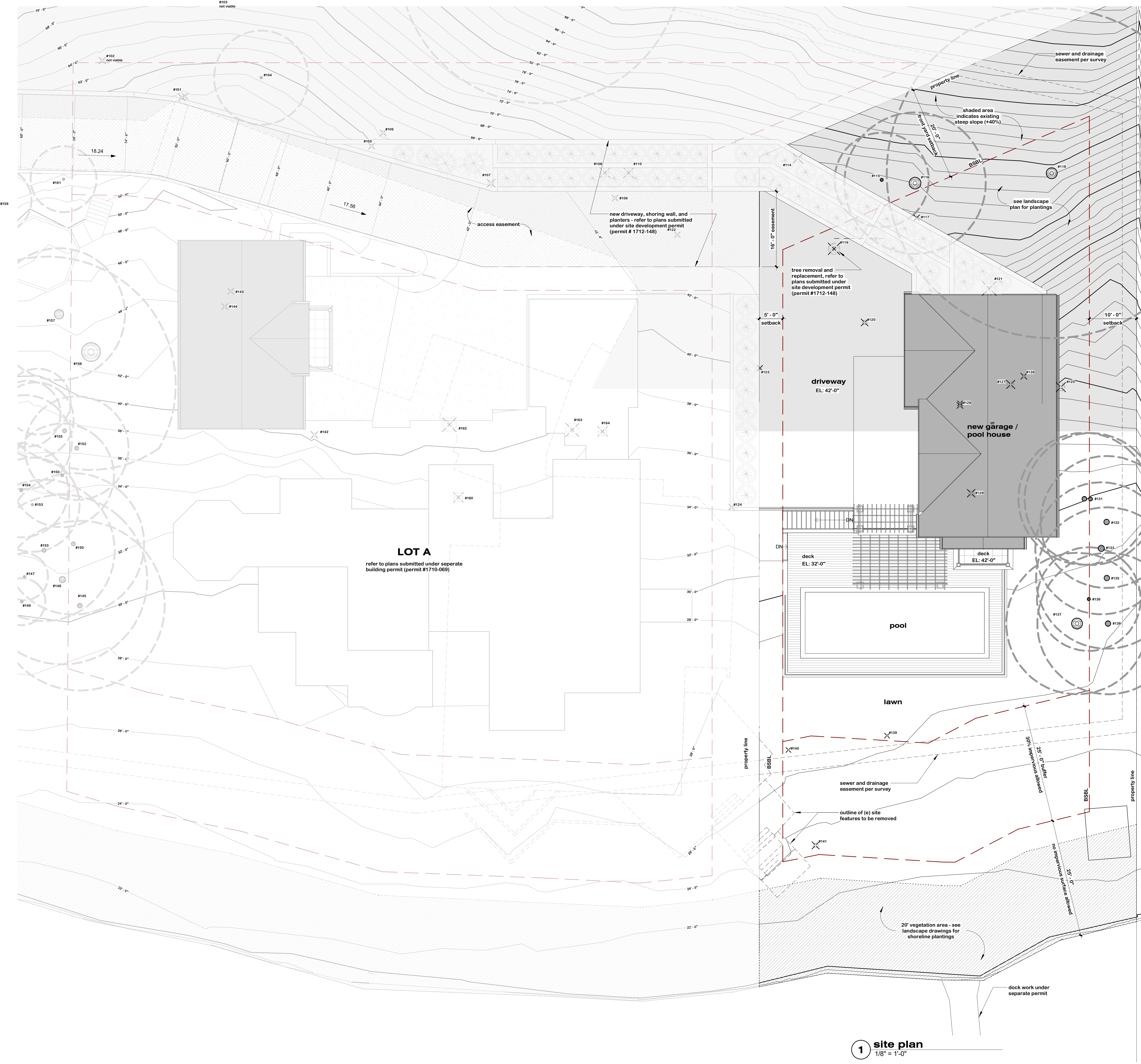
- Thermal expansion tank if the water system is equipped with a check valve, backflow preventer, or any other normally closed device that prevents dissipation of building pressure back into the water main. (IFGC 608.3)
- Combination pressure and temperature relief valve installed in an approved location based on the water-heating device's listing requirements and manufacturer's instructions. (IFGC 608.3)

Heating Units: Every dwelling unit shall be provided with heating facilities capable of maintaining a minimum room temperature of 68° F at a point 3' above the floor and 2' from exterior walls in all habitable rooms at design temperature. (R303.9)

Fuel fired appliances shall not be located in or obtain combustion air from sleeping rooms, bathrooms, toilet rooms, storage closets, or in a space that opens only into such rooms unless the appliance is a direct-vent appliance that obtains combustion air from the outdoors or a solid fuel-fired appliance, or the room meets the required volume criteria of section 304.5. (IMC 303 and IFGC 303)

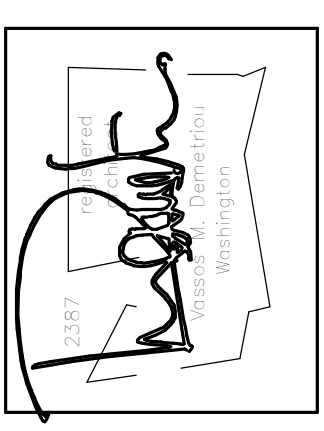
Appliances installed within compartments, alcoves, or basements shall be provided with access by an opening of door and an unobstructed passageway measuring not less than 24" wide and large enough to allow position and whose bottom edge is less than 60 inches above the level service space of not less than 30" deep and the height of the appliance, but not less than 30", is present at the front or service side of the appliance with the door open (IMC 306.2). All clearances shall be provided for warm air furnaces in accordance with the terms of their listings. Clearances and access, under floor spaces per IMC 306.4. Attics and/or furnished spaces per IMC 306.3. Roofs and/or outside walls per IMC 306.5.

Combustion Air: When a gas furnace is installed in a confined space where the volume of the space is not greater than 50 cu. ft./1000 BTUH of the appliance input rating, openings may be used to connect indoor spaces. Two permanent openings shall be provided, one within 12" of the floor and one within 12" of the ceiling. Each opening shall have a minimum free area of 1 sq. in./1,000 BTUH of the total input rating of all appliances in the space, but not less than 100 sq. in. The minimum dimension of air openings shall be not less than 3". (IFGC 3



site plan notes

- Final grading shall direct drainage away from all building structures.
- Residence will have NFPA 13R sprinkler system. Include a monitored water flow alarm, fire coating in the crawlspaces, noncombustible roof and siding materials, and additional fire code alternate measures per fire marshal.
- No structures shall be built over sewer easement.
- See landscape drawings for planting, irrigation, site lighting, and other landscape design information.
- Upgrade water service line to 8" supply, verify easements and provide to city prior to construction.



No.	Revision Date	Description

Drawn by: JAS
 Scale: AS
 Date: 02/15/18
 Purpose: building permit

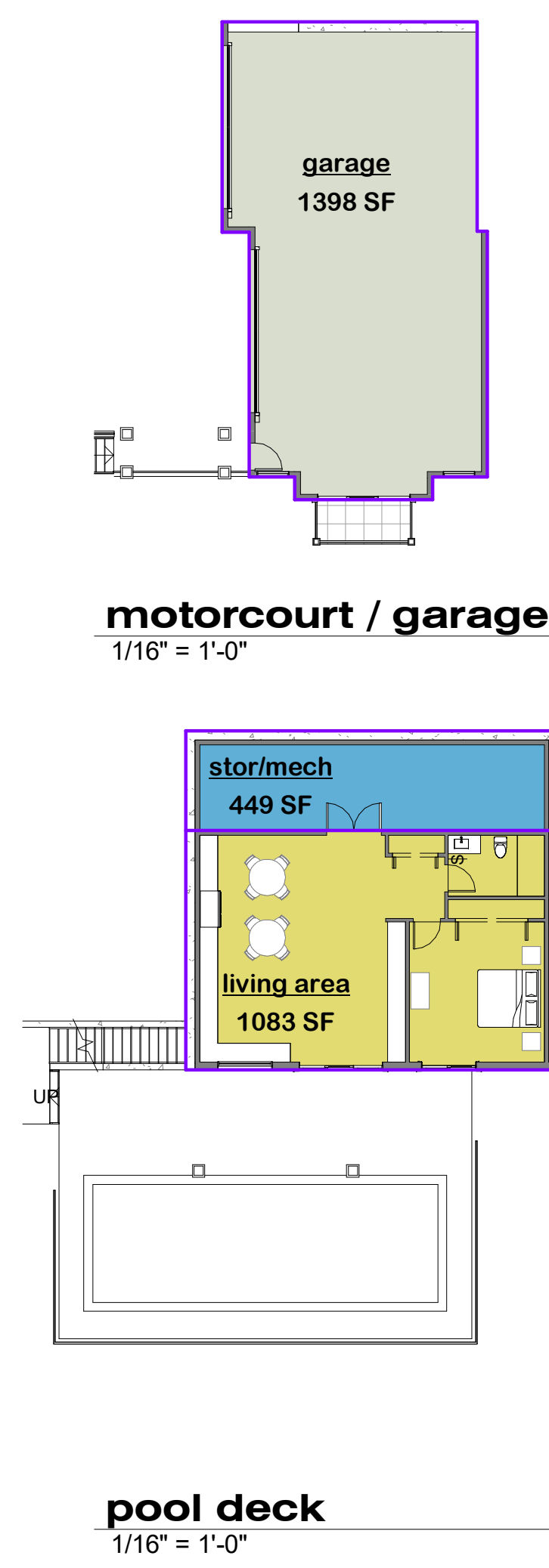
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Ogden Point Residence - Lot C
 3675 W Mercer Way (Parcel #3623500273)
 Mercer Island, WA 98040

Project: 503.01

Sheet: A2.1

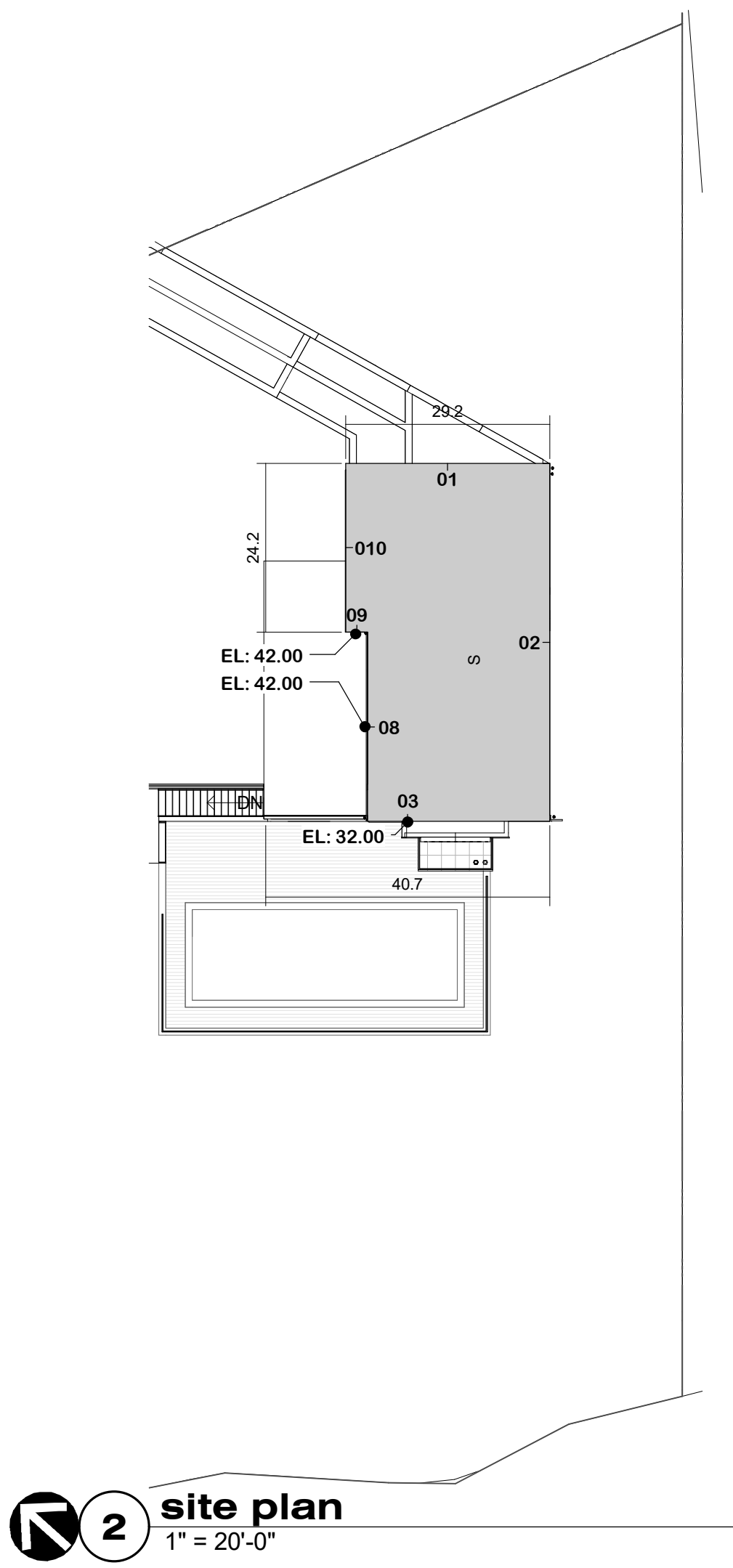
1 site plan
 1/8" = 1'-0"



Floor Areas

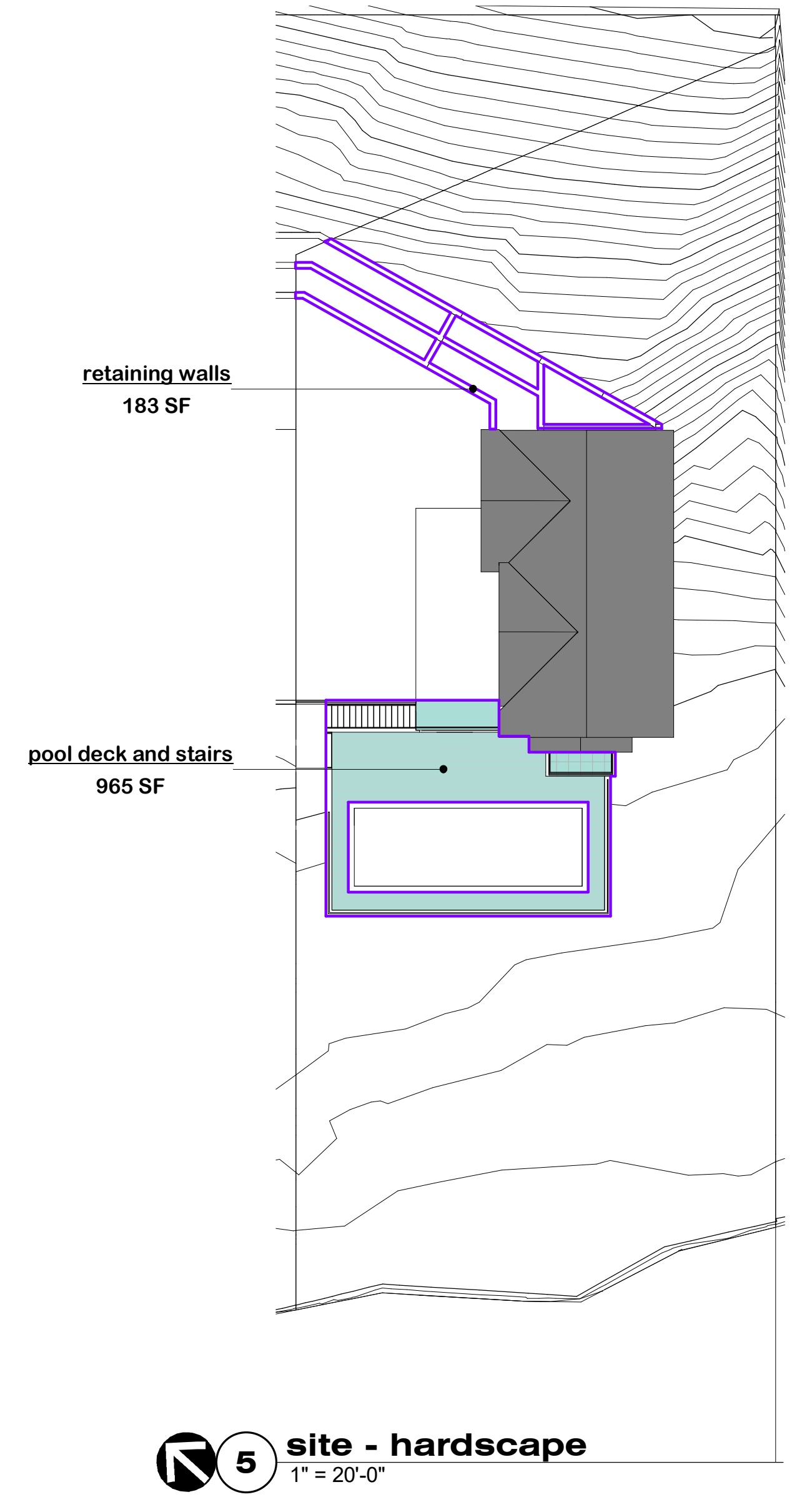
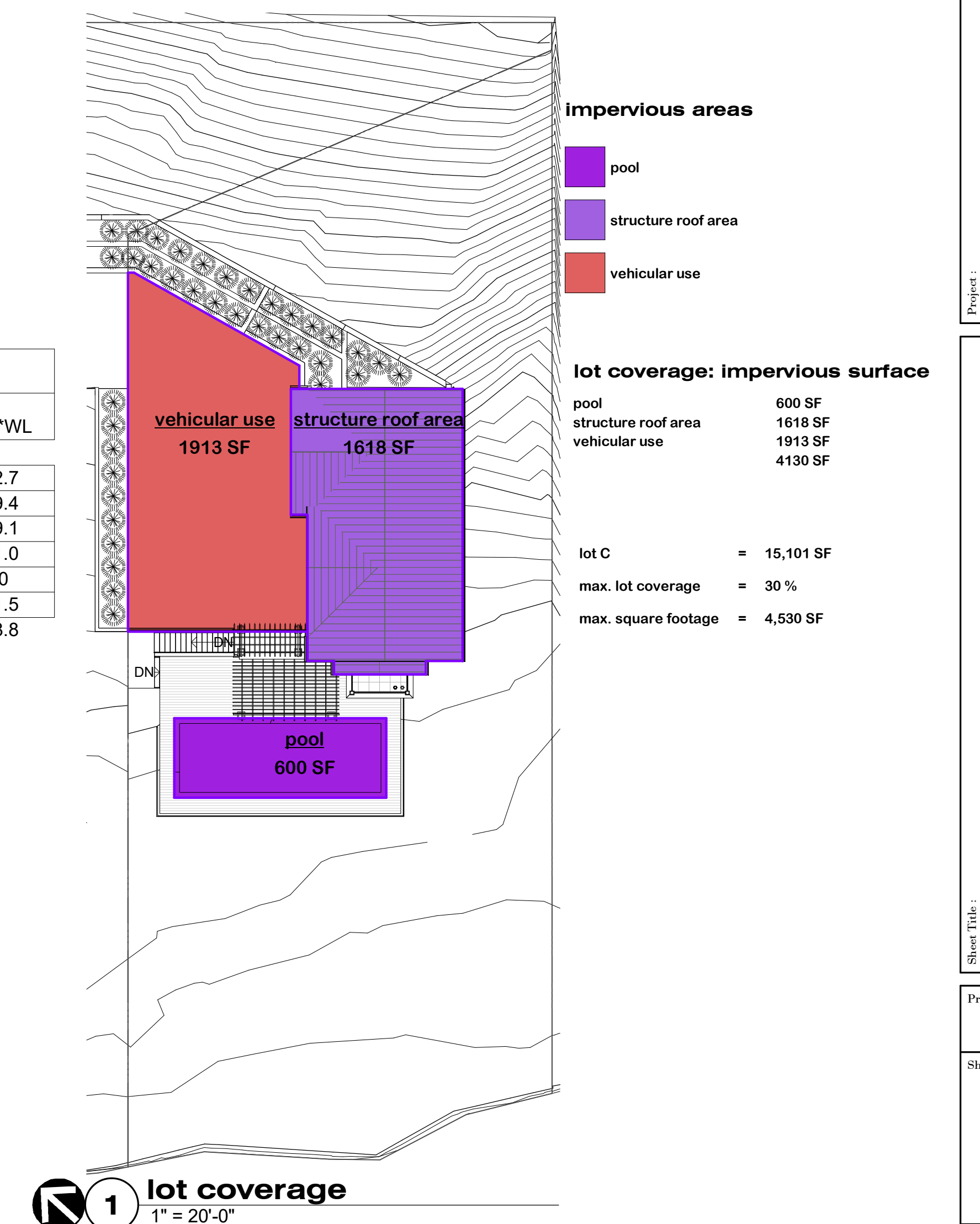
name	area
pool deck	
living area	1083 SF
stor/mech	449 SF
motorcourt / garage	
garage	1398 SF
	2930 SF

GROSS FLOOR AREA:
Gross Floor Area: 40% of lot area or 12,000 SF
40% of 15,101 = 6,040 SF
Proposed total floor area: 2,930 SF



ABE calculation			
Mark	midpoint elevation	Length_Calc	ME*WL
01	57	350.7	19992.7
02	36.64	616.3	22579.4
03	32	488.4	15629.1
08	42	325.5	13671.0
09	42	37.5	1575.0
010	42	290.8	12211.5
		2109.2	85658.8

Total Midpoint Elevation * Wall Length = 85,658.8
Total Length of Wall = 2,109.2
Average Building Elevation (ABE) = 40.6 ft



net lot area = 15,101 SF
9% hardscape allowed = 1,359 SF
proposed hardscape = 1,148 SF

Project: **Ogden Point Residence - Lot C**
3675 W Mercer Way (Parcel #3623500273)
Mercer Island, WA 98040

Sheet Title: **site calculations**

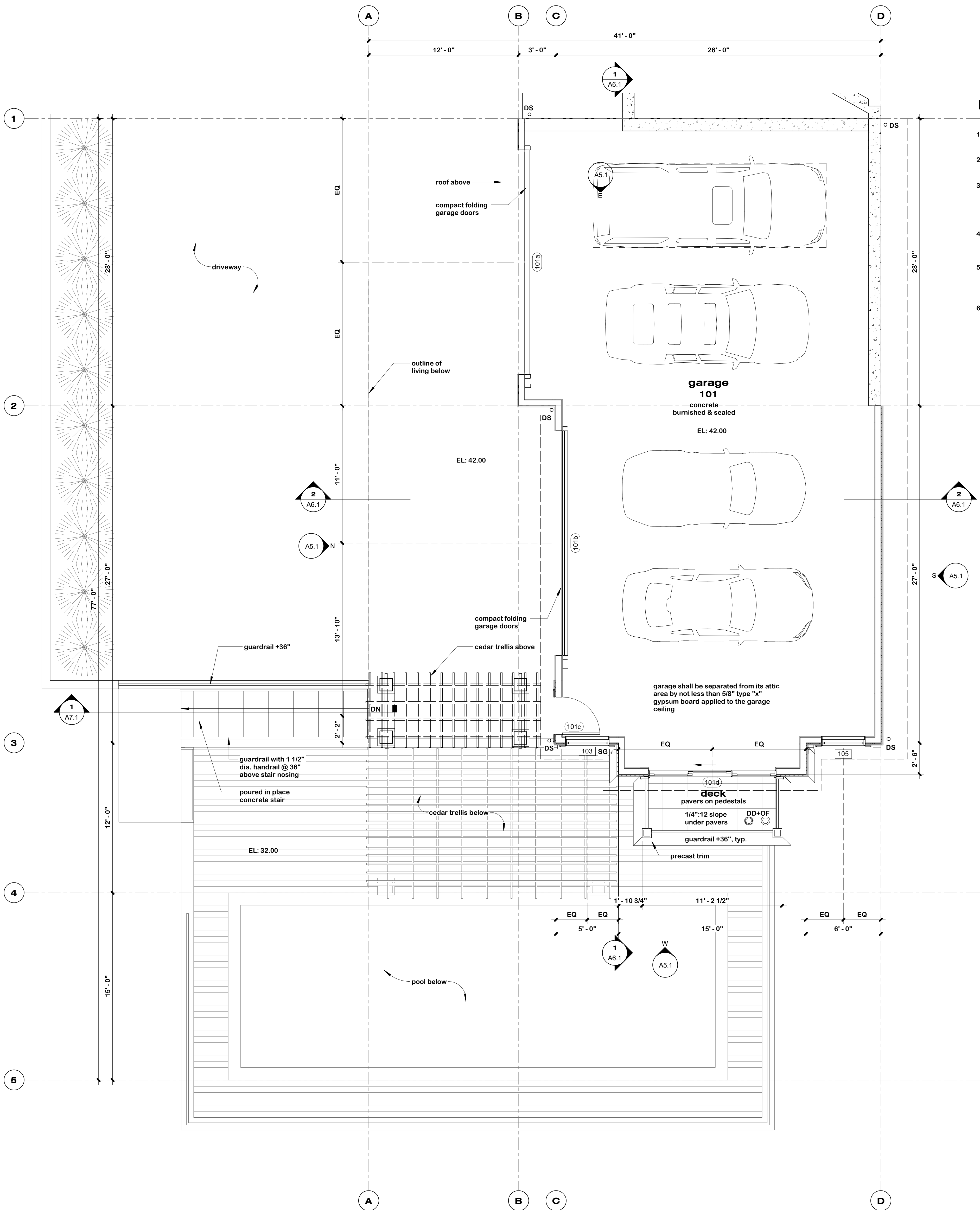
Project: **503.01**

Sheet: **A2.2**

Drawn by: JAS
Scale: 1/16" = 1'-0"
Date: 02/15/18
Purpose: building permit

Revision Date: _____ Description: _____
No: _____

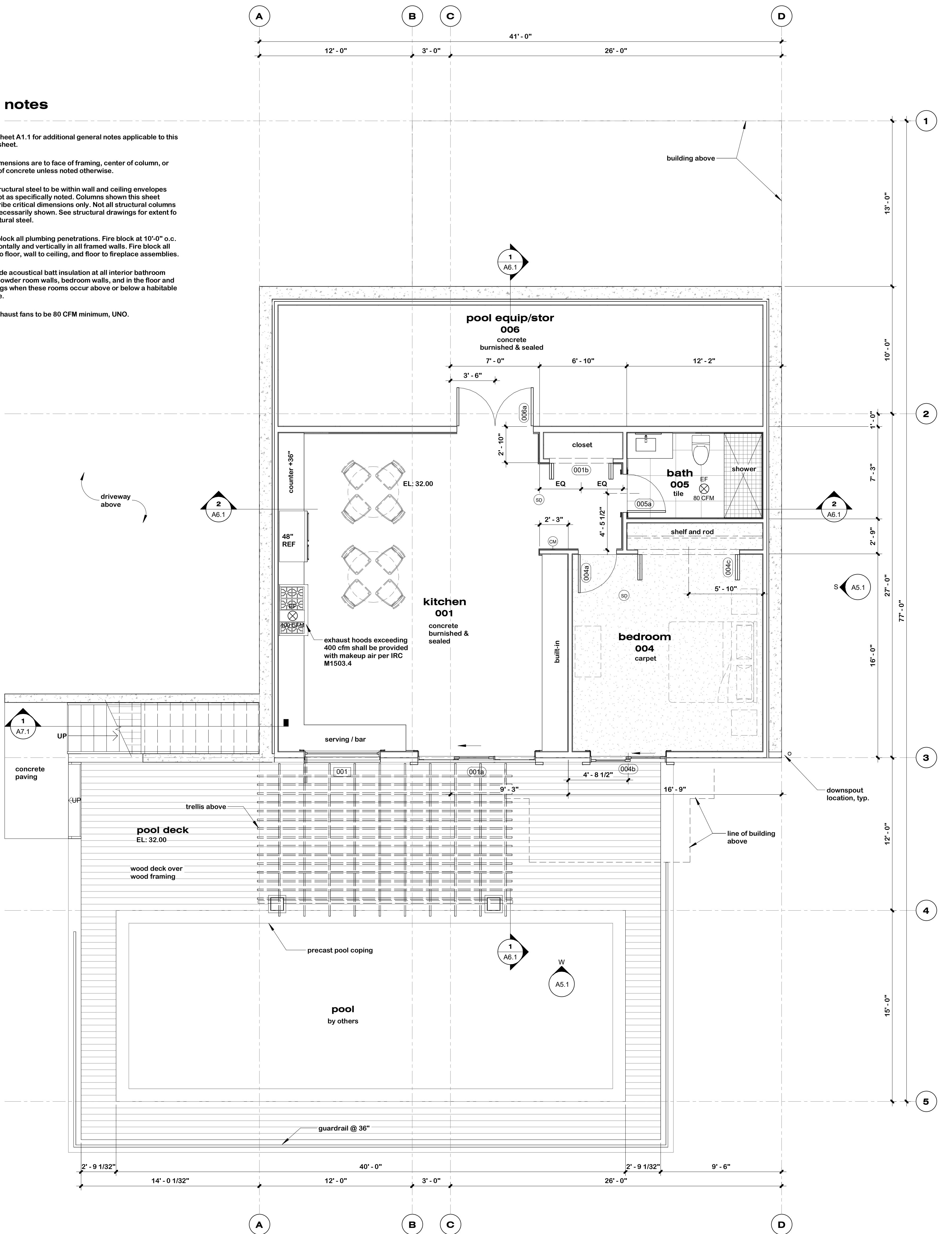
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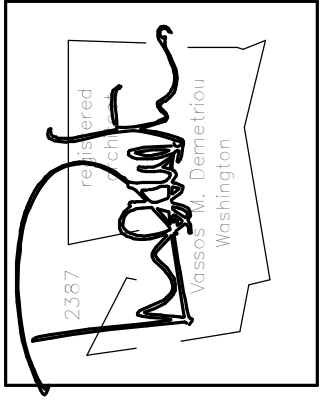
2 garage level floor plan
1/4" = 1'-0"

plan notes

- See sheet A1.1 for additional general notes applicable to this plan sheet.
- All dimensions are to face of framing, center of column, or face of concrete unless noted otherwise.
- All structural steel to be within wall and ceiling envelopes except as specifically noted. Columns shown on this sheet describe critical dimensions only. Not all structural columns are necessarily shown. See structural drawings for extent of structural steel.
- Fire block all plumbing penetrations. Fire block at 10'-0" o.c. horizontally and vertically in all framed walls. Fire block all wall to floor, wall to ceiling, and floor to fireplace assemblies.
- Provide acoustical batt insulation at all interior bathroom and powder room walls, bedroom walls, and in the floor and ceilings when these rooms occur above or below a habitable space.
- All exhaust fans to be 80 CFM minimum, UNO.



1 pool level floor plan
1/4" = 1'-0"



No.	Revision Date	Description

Drawn by: JAS
 Scale: 1/4" = 1'-0"
 Date: 02/15/18
 Project: building permit

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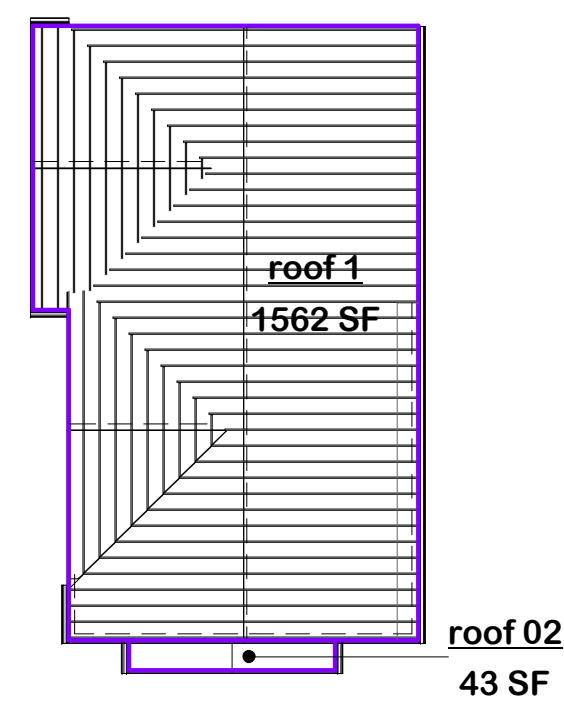
Ogden Point Residence - Lot C
 3675 W Mercer Way (Parcel #3623500273)
 Mercer Island, WA 98040

Project:

Sheet Title:
floor plans
 Drawing Scale: 1/4" = 1'-0"

Project:
503.01

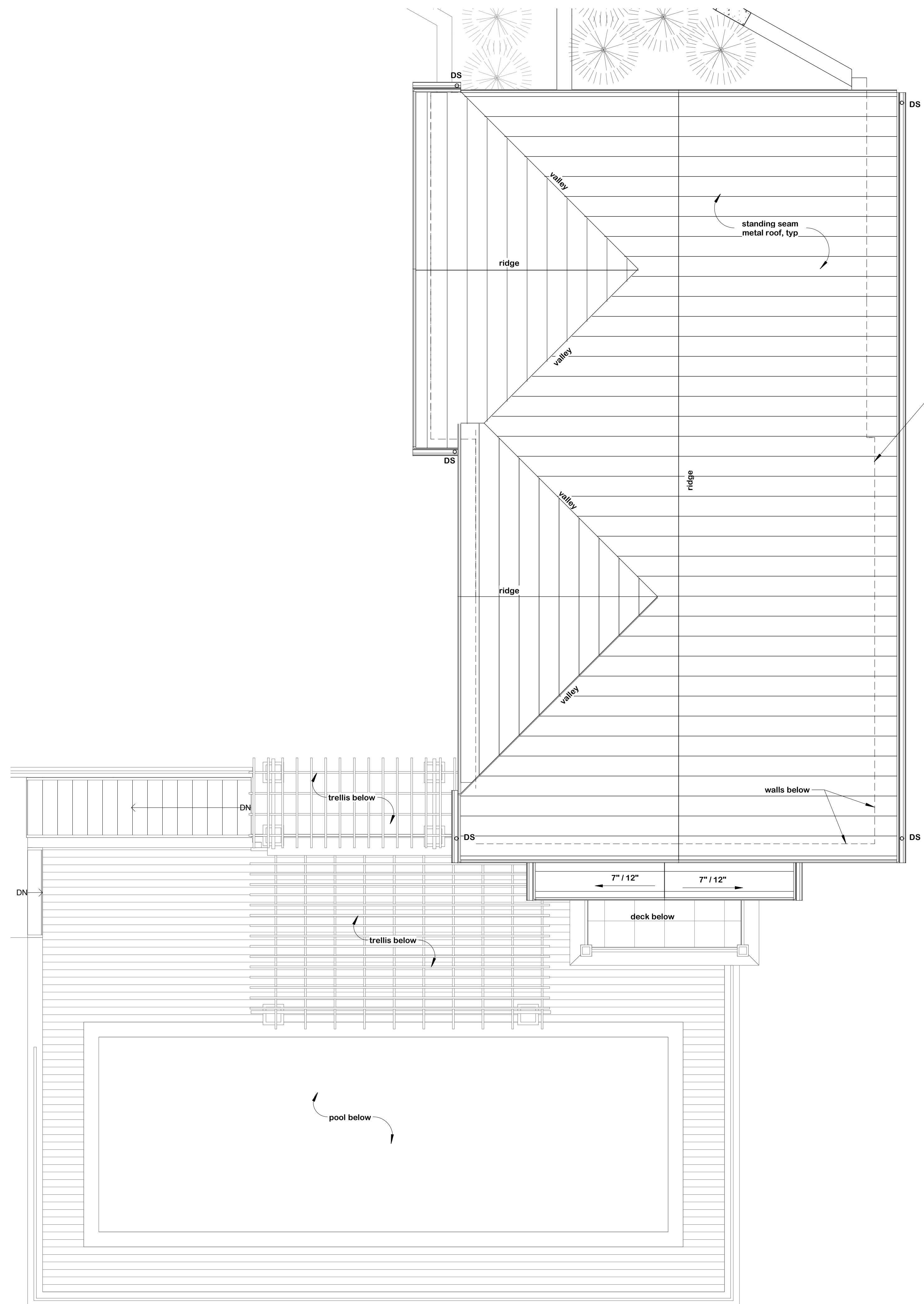
Sheet:
A3.1



roof.01
 area = 1,562 SF
 venting required = 1,499.52 sq in
 proposed venting - soffit = 60'-6"
 proposed venting - ridge = 76'-6"
 venting provided - soffit = 544.5 sq in
 venting provided - ridge = 1,032.75 sq in
total = 1,577.25 sq in

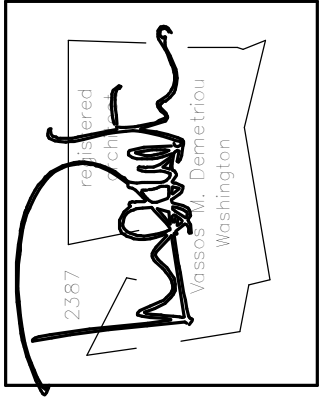
roof.02
 no venting required
 soffit vent = AirVent Inc, continuous soffit vent, 9 sq in per ft
 ridge vent = Cor-A-Vent, V-300 ridge vent, 13.5 sq in per ft

2 roof venting calculations
1/16" = 1'-0"



roof plan notes

1. Roof slope at pitched roof areas to be 7":12", typ UNO.
2. Roof slope shall in no case be less than 1/4":12" at any location.
3. Plumbing risers and vents not shown on plans for clarity. Plumbing penetrations to be kept to a minimum and located on roof slopes not visible from the entry access.
4. Flash and counterflash all roof penetrations.
5. Provide balanced roof ventilation. It is recommended that the contractor coordinate with venting product suppliers to prevent imbalanced ventilation under severe weather conditions where infiltration could occur. Weather shield flashing may be required at these conditions.



No.	Revision Date	Description

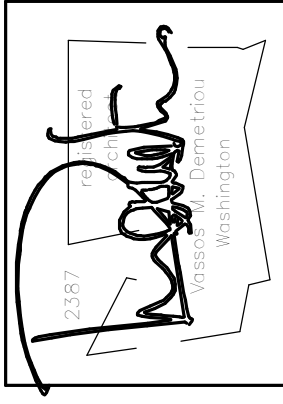
Drawn by: JAS
 Scale: AS
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Ogden Point Residence - Lot C
 3675 W Mercer Way (Parcel #3623500273)
 Mercer Island, WA 98040
 Project:

Sheet Title:
roof plan
 Drawing Scale: As indicated

Project:
503.01

Sheet:
A4.1

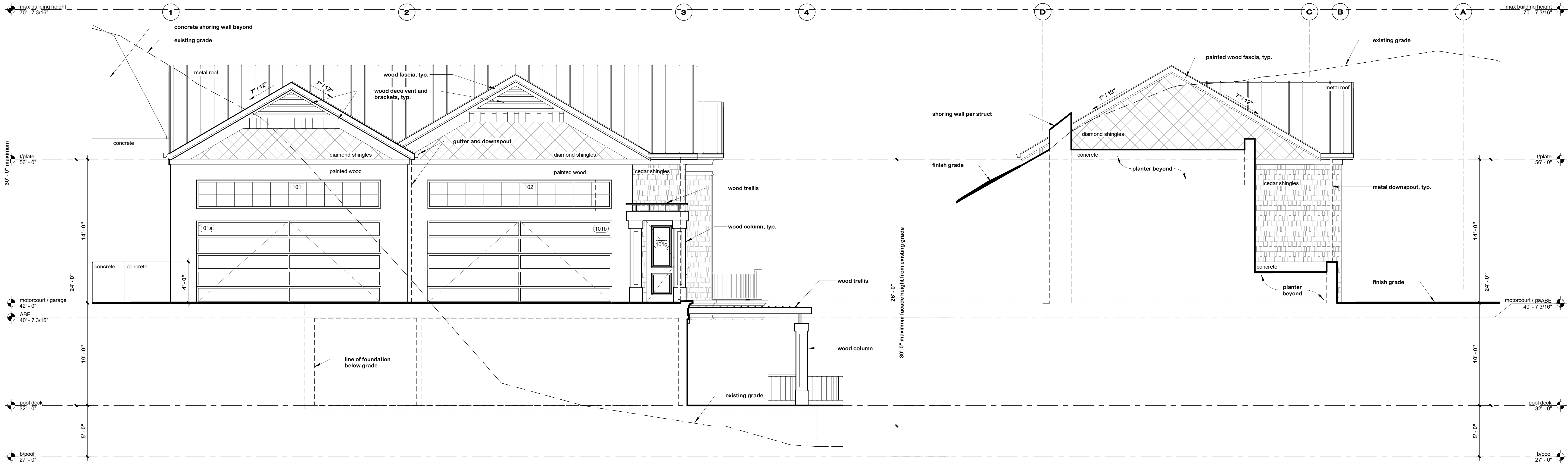


No.	Revision Date	Description

Drawn by: AJS
 Checked by: SJS
 Date: 02/15/18
 Project: building permit

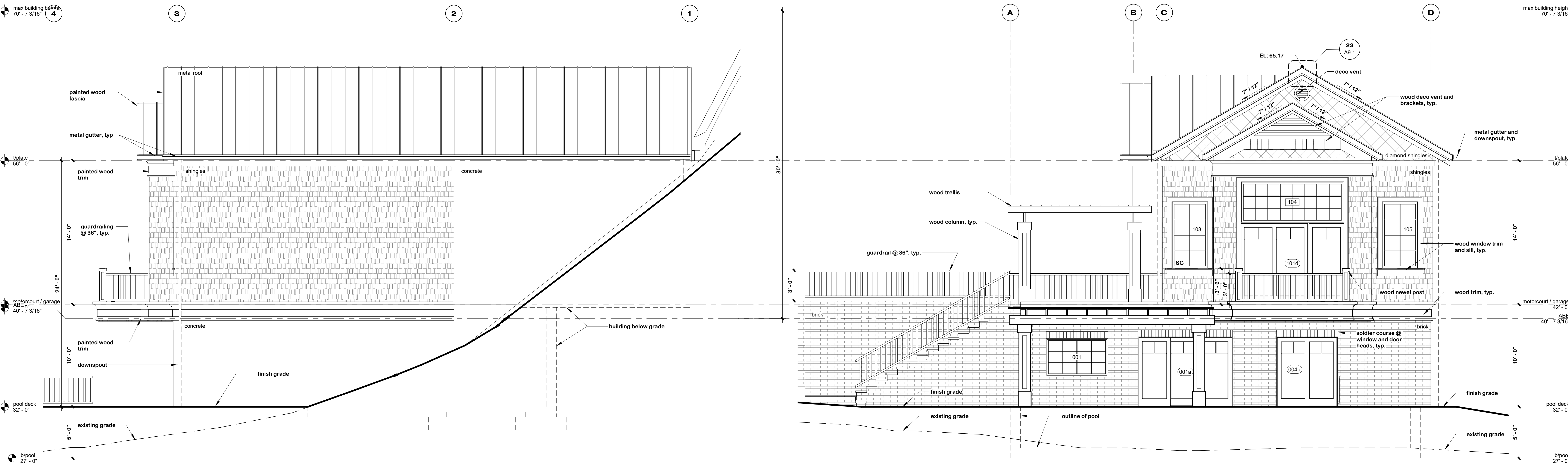
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N north elevation
 1/4" = 1'-0"

E east elevation
 1/4" = 1'-0"



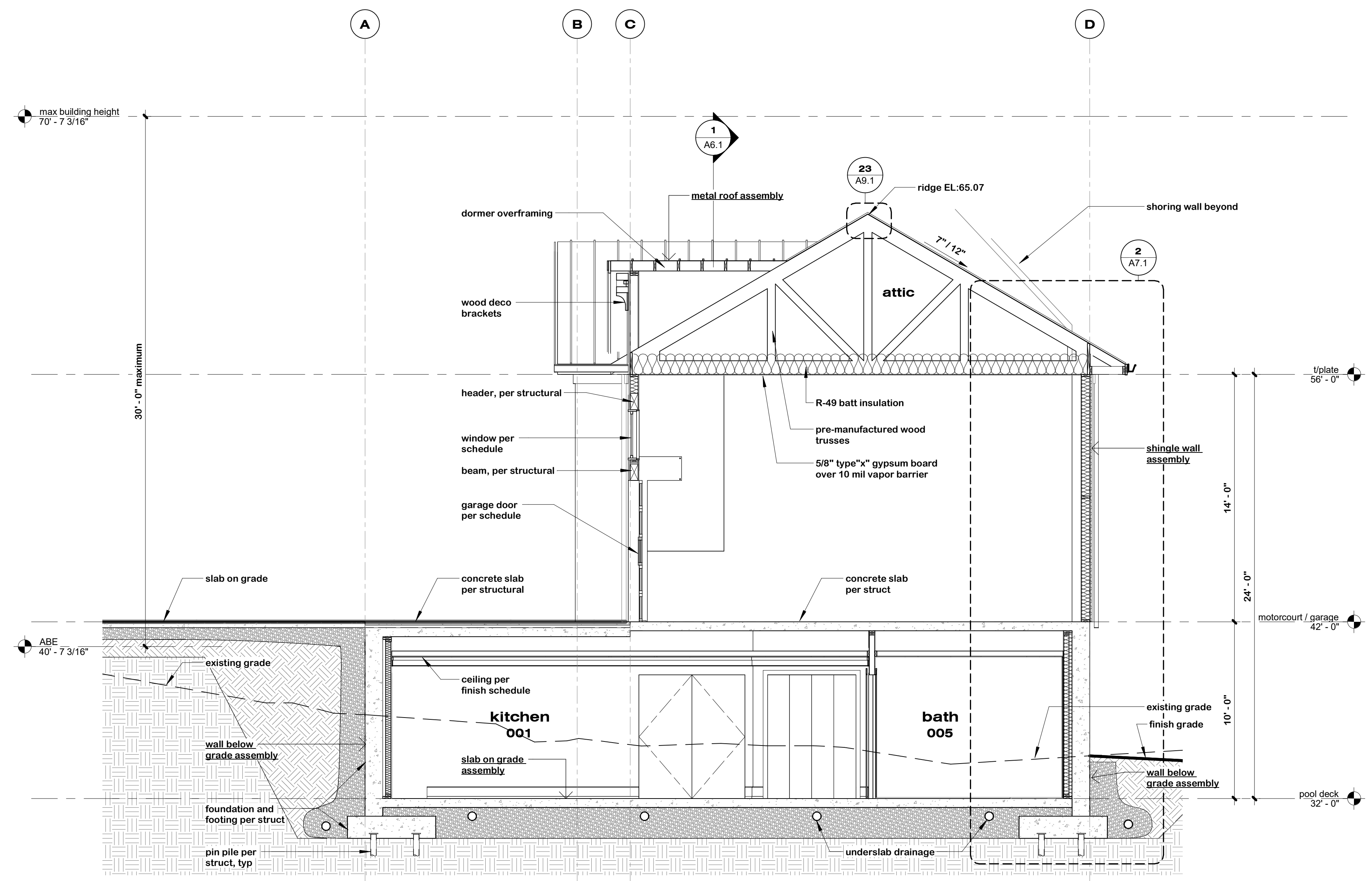
S south elevation
 1/4" = 1'-0"

W west elevation
 1/4" = 1'-0"

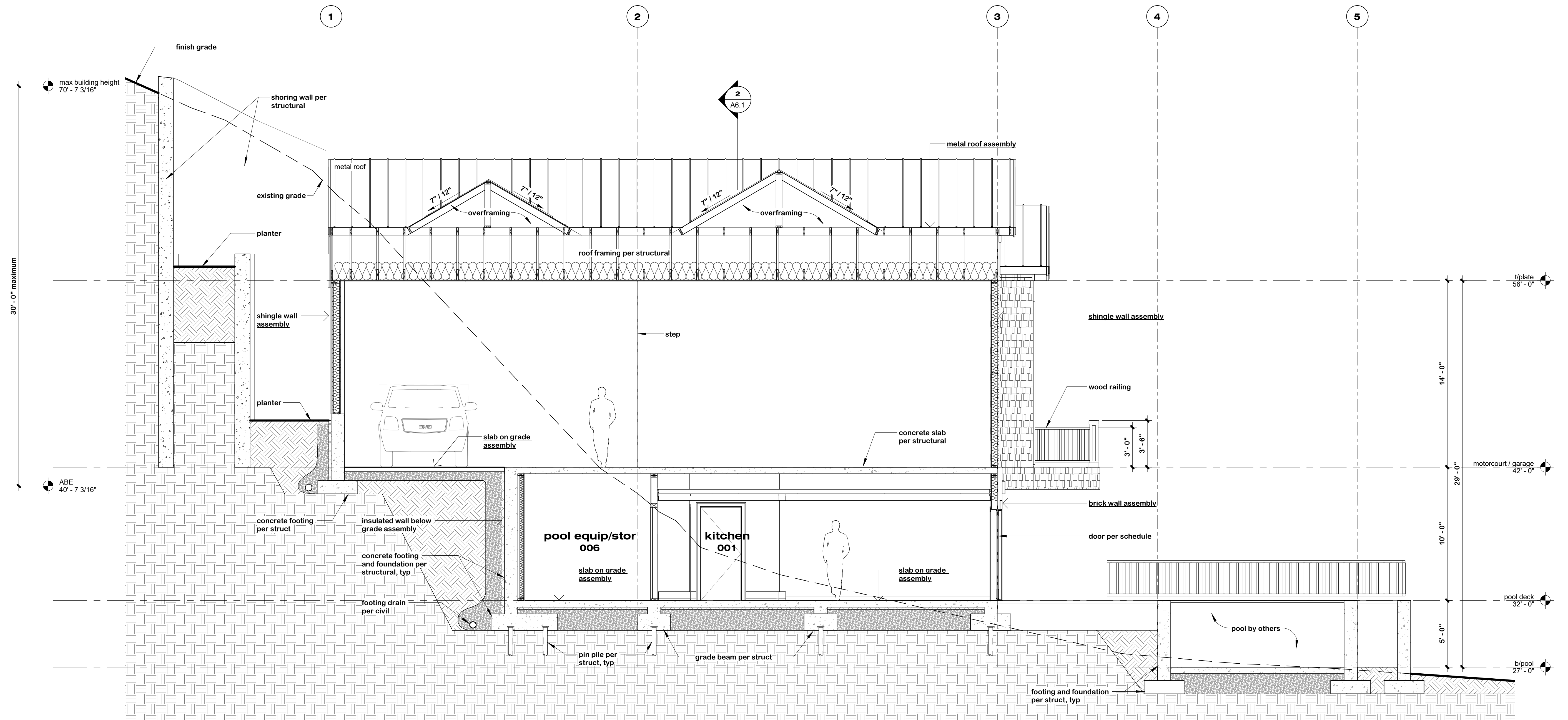
Ogden Point Residence - Lot C
 3675 W Mercer Way (Parcel #3623500273)
 Mercer Island, WA 98040

Project: 503.01
 elevations
 Sheet Title: elevations
 Drawing Scale: 1/4" = 1'-0"

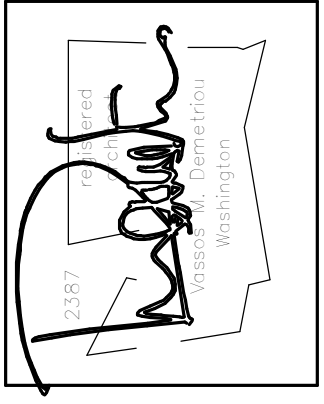
Project: 503.01
 Sheet: A5.1



2 building section
1/4" = 1'-0"



1 building section
1/4" = 1'-0"



No.	Revision Date	Description

Drawn by: JAS
 Scale: 1/4" = 1'-0"
 Date: 02/15/18
 Project: building permit

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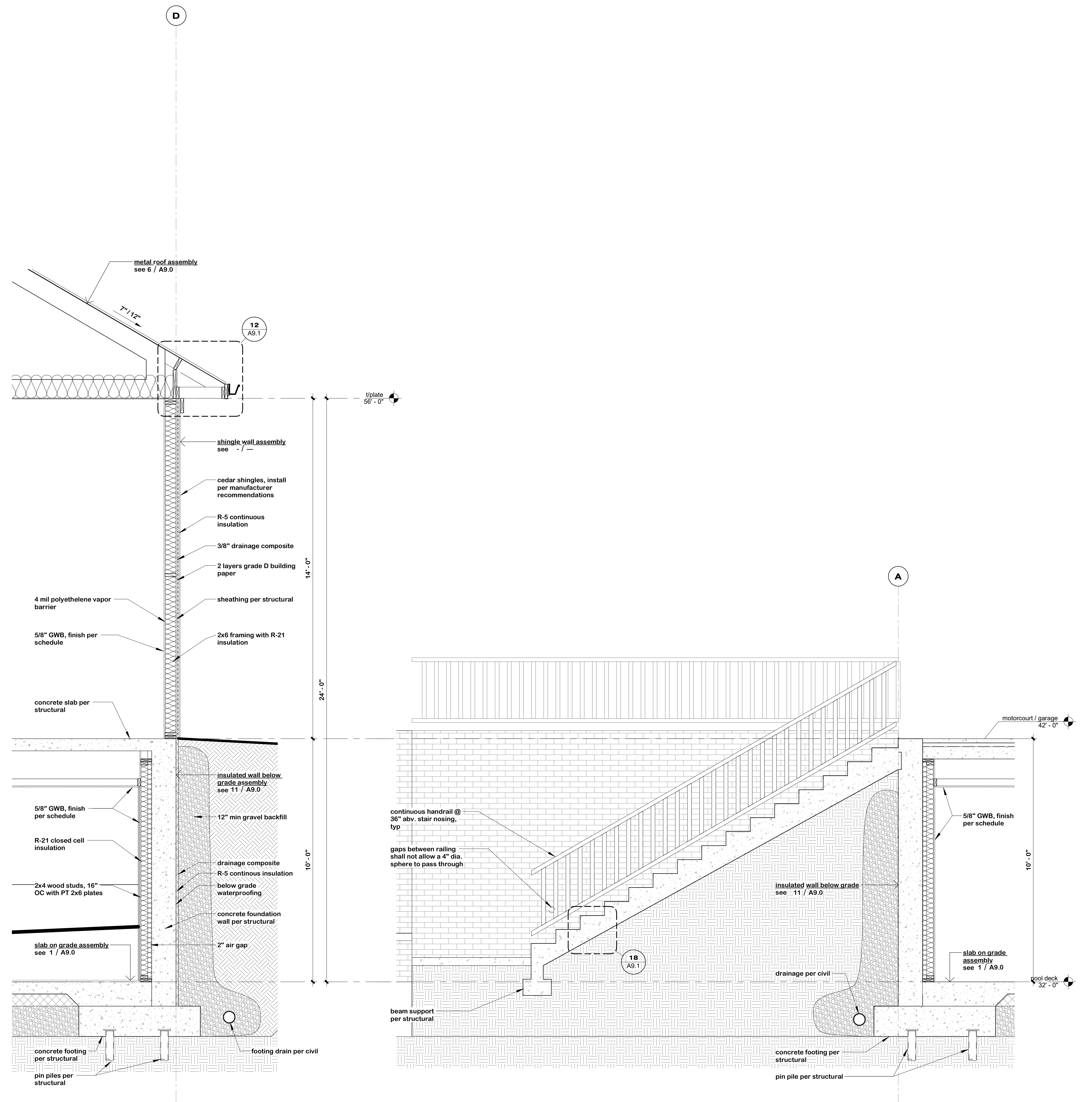
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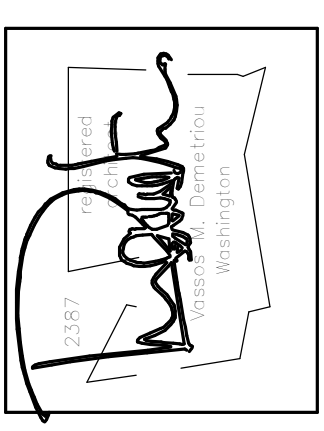
Project:
building sections
 503.01

Sheet:
A6.1



2 typical wall section
1/2" = 1'-0"

1 exterior stair
1/2" = 1'-0"



No.	Revision Date	Description

Drawn by: JAS
 Scale: 1/2" = 1'-0"
 Date: 02/15/18
 Purpose: building permit

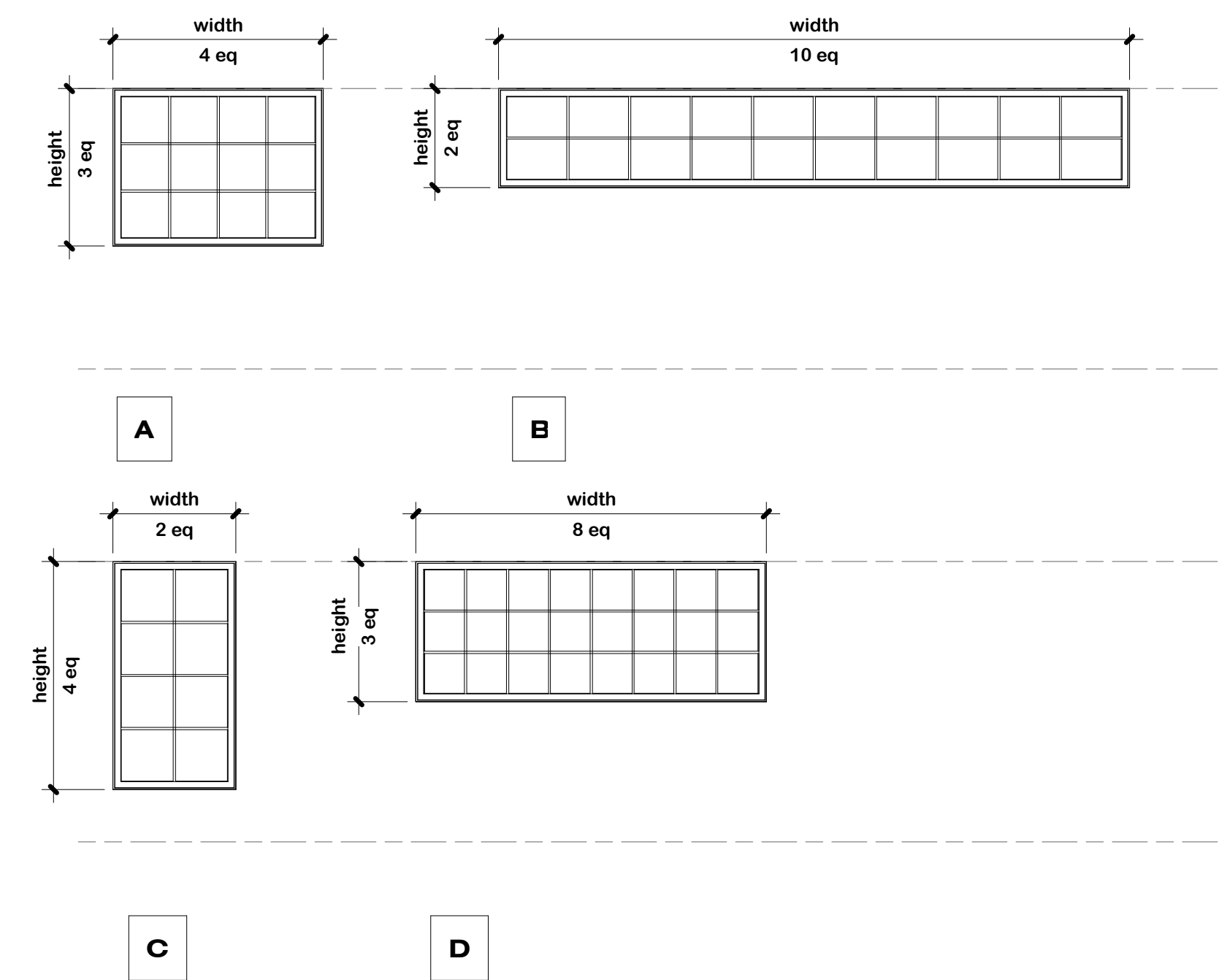
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Ogden Point Residence - Lot C
 3675 W Mercer Way (Parcel #3623500273)
 Mercer Island, WA 98040

Project:
wall and stair sections
 Drawing Scale: 1/2" = 1'-0"

Sheet:
503.01
A7.1

window types



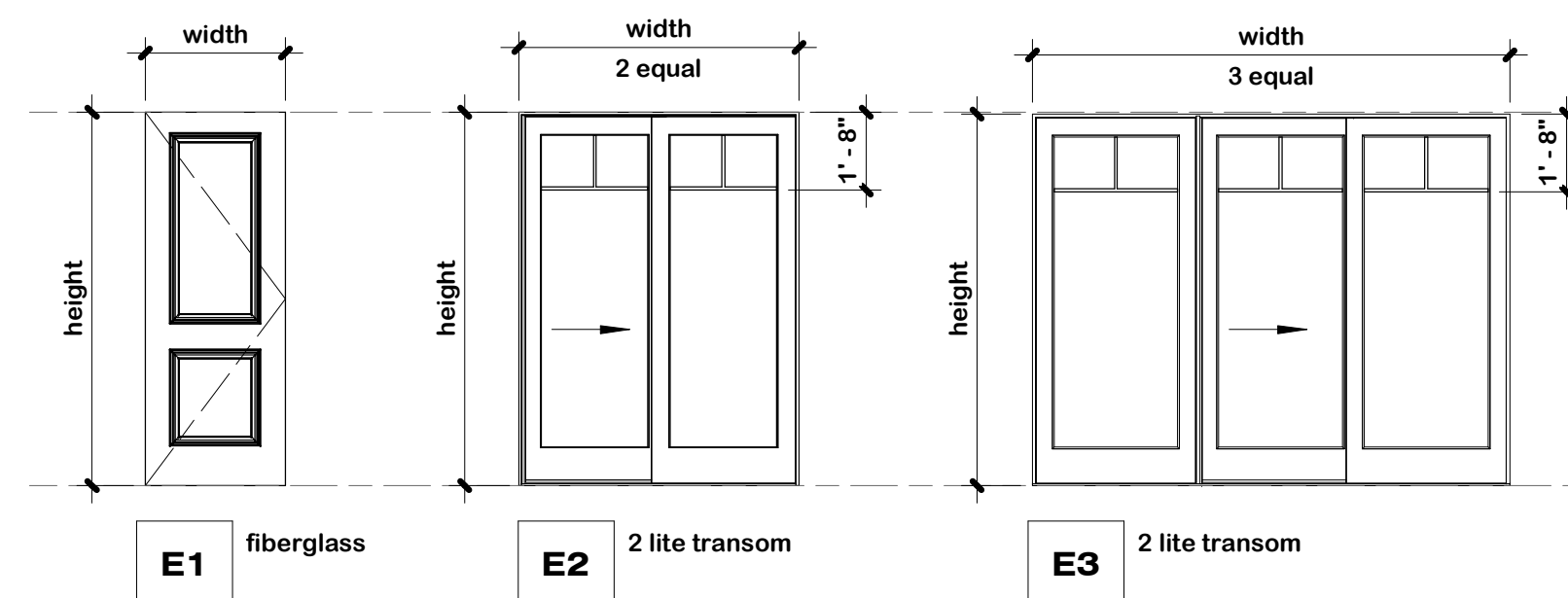
window schedule

Room Number	Room Name	no.	type	width	height	sill height	head height	manufacturer	model	Comments
pool deck										
001	kitchen	001	E	6'-0"	3'-8"	3'-0"	6'-8"			
motorcourt / garage										
		101	B	18'-0"	2'-10"	9'-2"	12'-0"			
		102	B	18'-0"	2'-10"	9'-2"	12'-0"			
		103	C	3'-6"	6'-6"	3'-6"	10'-0"			safety glazing
		104	D	10'-0"	4'-0"	7'-11 1/2"	11'-11 1/2"			
		105	C	3'-6"	6'-6"	3'-6"	10'-0"			

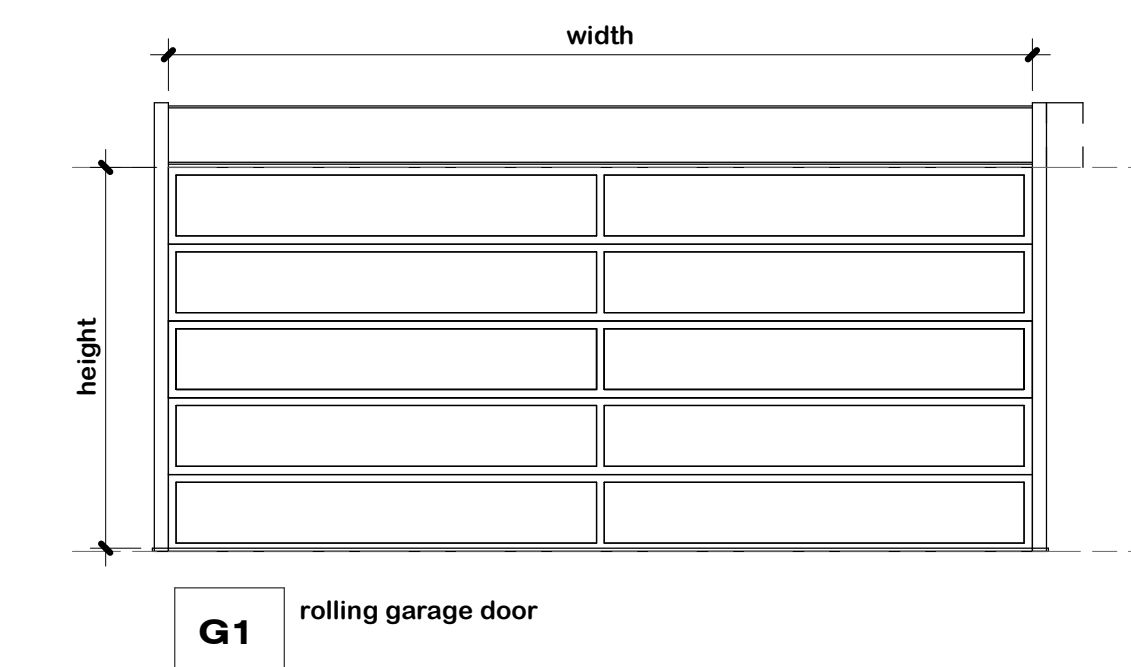
glazing notes

- See sheet A1.1 for general notes
- All glazing to have a U-factor of 0.25 max per WSEC prescriptive approach.
- Window dimensions taken to frame UNO.
- Safety glazing (SG) to be provided where required by the IRC. See plans for safety glazing locations as noted. Each pane of safety glazing to be identified in accordance with IRC.
- Emergency escape and rescue openings shall be installed per IRC R310. See plans for locations. All emergency escape openings shall have a minimum net clear opening of 5.7 SF. The minimum net clear opening shall be no less than 24", clear opening width no less than 20", with a finished sill height not more than 44" above the floor.
- Window supplier/manufacturer to field verify all rough openings, window divisions, and operation prior to production of windows.
- All window finishes per architect. Window supplier to submit color sample for approval by architect/owner.
- All operable windows to be provided with screens.
- Windows within 10'-0" of grade (or accessible deck) shall be capable of being locked.
- All sill and head heights are taken from finish floor UNO.

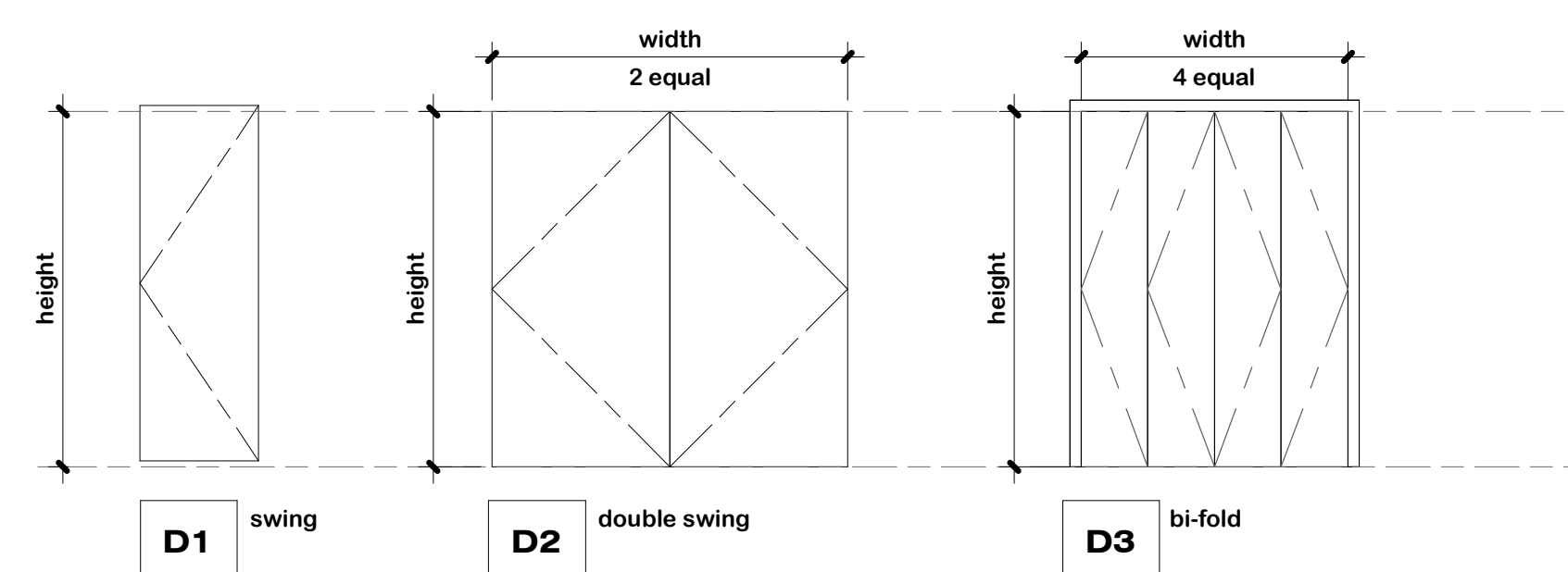
exterior door types



garage door types



interior door types



door notes

- Safety glazing (SG) to be provided where required by IBC 2403. Refer to plans for safety glazing locations. Each pane of safety glazing shall be identified by a label in accordance with the IRC.
- Door frames and frame anchorage shall be installed according to the conditions of their listings.
- All exterior doors, except garage doors, to be provided with mortise lock and deadbolt. Minimum 1/2" throw deadbolt or dead latch for doors per IRC R329.
- Opaque exterior doors to have a maximum U-factors per table WSEC R402.1.1. Glazed exterior doors to have a maximum U-factor of 0.25.
- Fire doors, windows, and dampers shall have an approved label or listing mark, indicating fire-protection rating, which is visible for inspection and permanently affixed at time of manufacture.
- All exterior, mechanical room, and crawl space doors shall be insulated with interlocking low-rise thresholds and weatherstripping.
- Door thresholds shall not exceed 1/2" in height above finish floor.
- All bedroom, bathroom, and powder rooms to be provided with privacy locks.
- Operation, hinging, pocketing, or sliding per plans.

door schedule

room no.	room name	type	material	finish	width	height	u-value	area	thickness	manufacturer	model	Comments
pool deck												
001a	001	kitchen	D6	aluminum	paint	9'-2 3/4"	6'-10"	63 SF	1 3/4"			
001b	001	kitchen	D3	MDF	paint	6'-0"	7'-6"	38 SF	1 3/4"			
004a	004	bedroom	D1	MDF	paint	3'-0"	7'-6"	23 SF	1 3/4"			
004b	004	bedroom	D7	aluminum clad	paint	6'-0"	6'-10"	41 SF	1 3/4"			
004c	004	bedroom	D3	MDF	paint	8'-0"	8'-0"	64 SF	1 3/4"			
005a	005	bath	17	MDF	paint	3'-0"	7'-0"	21 SF	1 3/4"			
006a	006	pool equip/stor	D4	MDF	paint	6'-0"	7'-0"	42 SF	2"			
motorcourt / garage												
101a			G1	aluminum clad	paint	18'-0"	8'-0"	144 SF	2"			
101b			G1	aluminum clad	paint	18'-0"	8'-0"	144 SF	2"			
101c			E1	fiberglass	paint	3'-0"	8'-0"	24 SF	1 3/4"			
101d			E3	aluminum clad	paint	10'-2 3/4"	7'-11 1/2"	81 SF	1 3/4"			
								684 SF				



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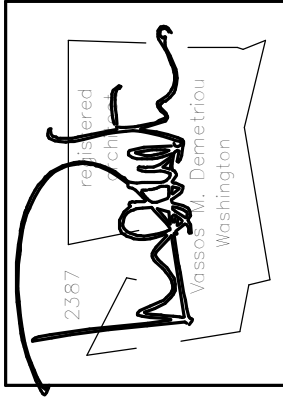
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Project: **503.01**

Sheet: **A8.1**



No.	Revision Date	Description

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 Scale: 3/4" = 1'-0"
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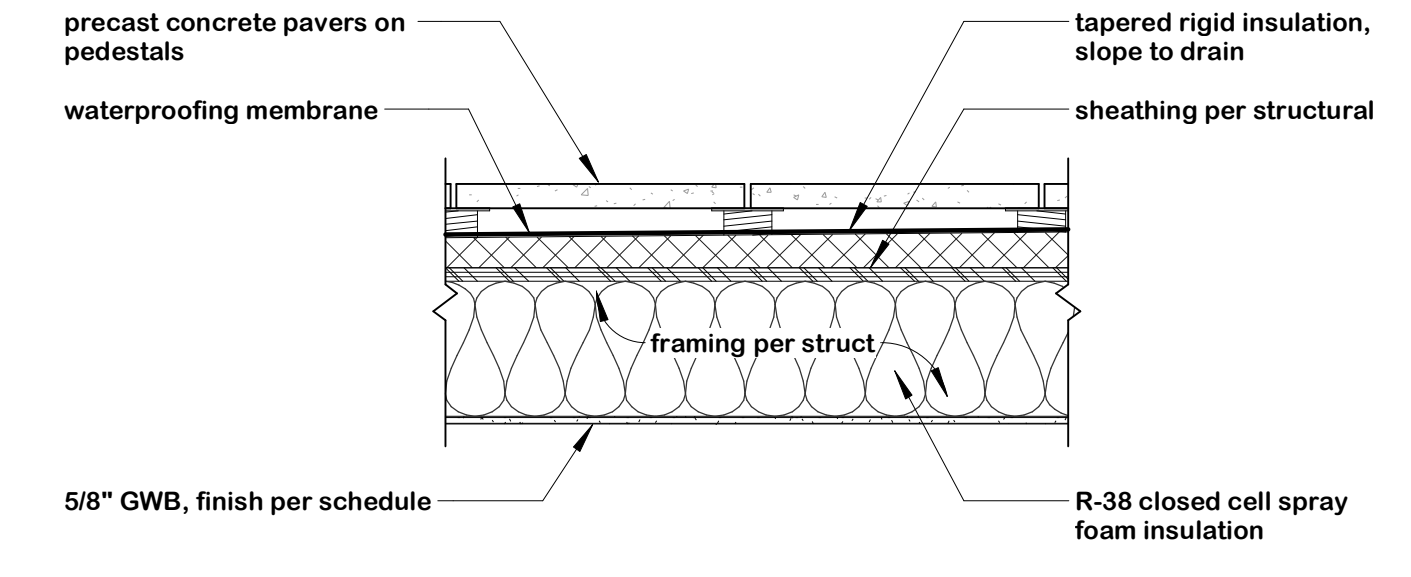
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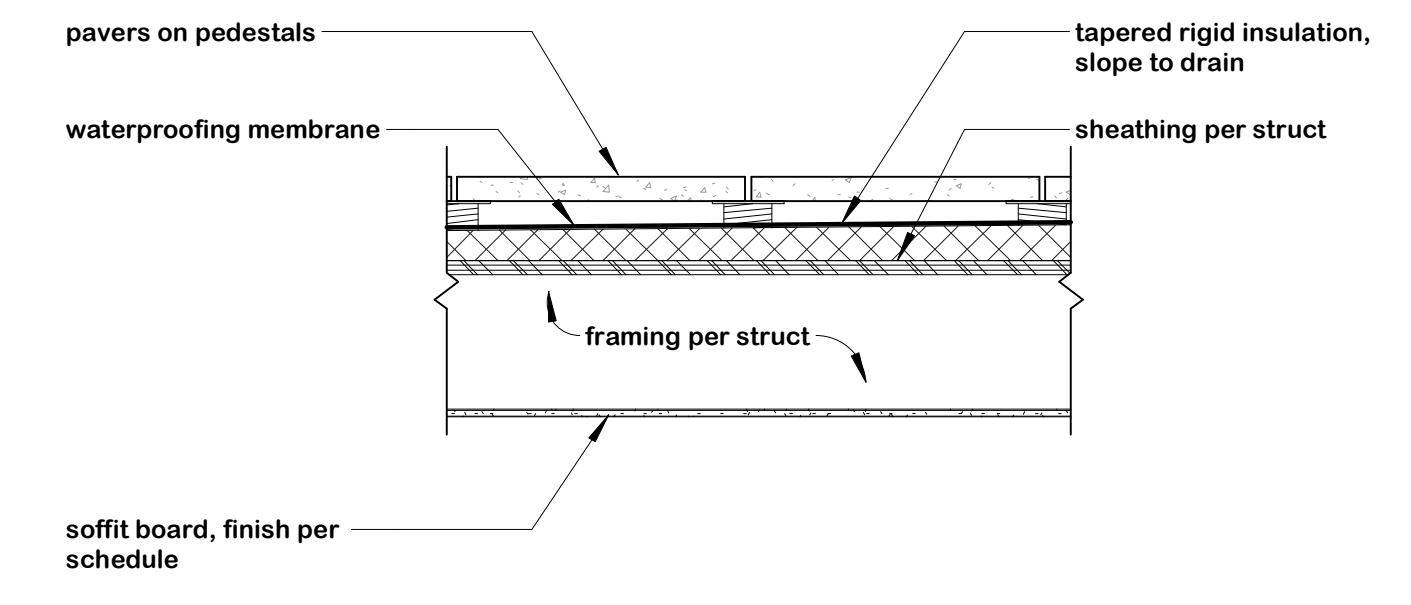
Ogden Point Residence - Lot C
 3675 W Mercer Way (Parcel #3623500273)
 Mercer Island, WA 98040

Project: assemblies
 Sheet Title: assemblies
 Drawing Code: 348-1-127

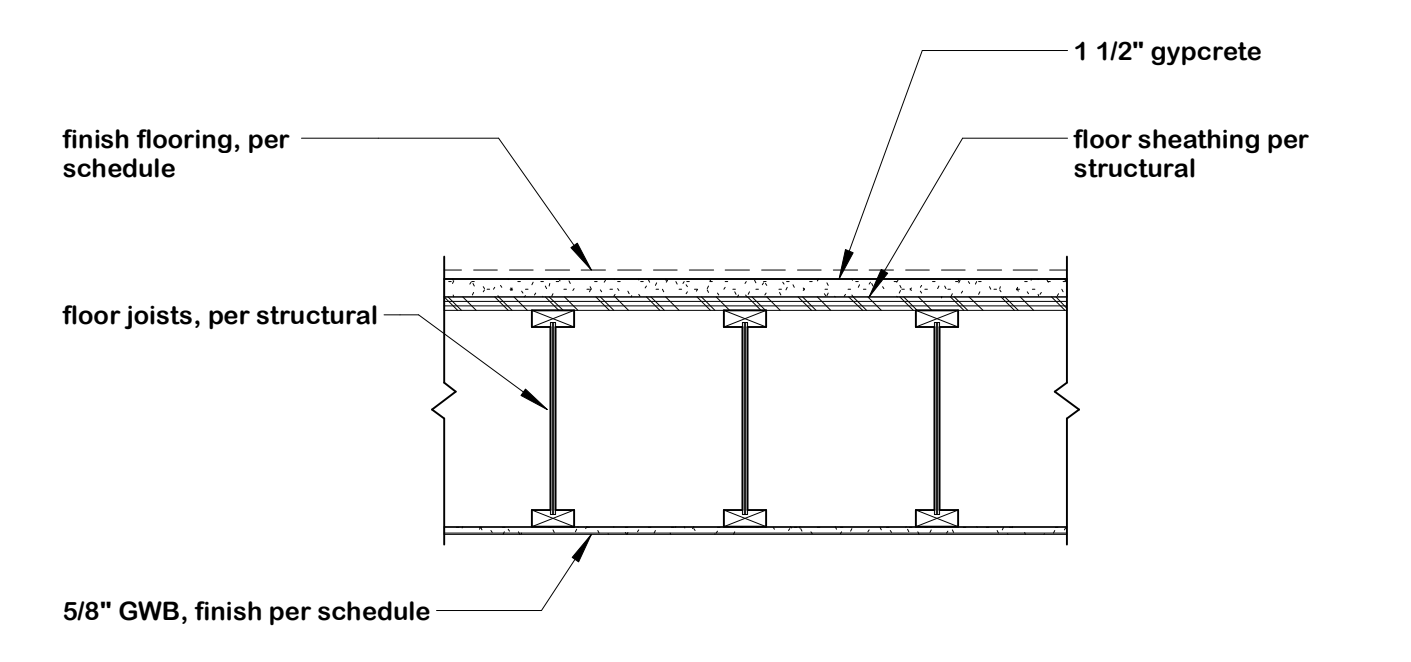
Project: 503.01
 Sheet: A9.0



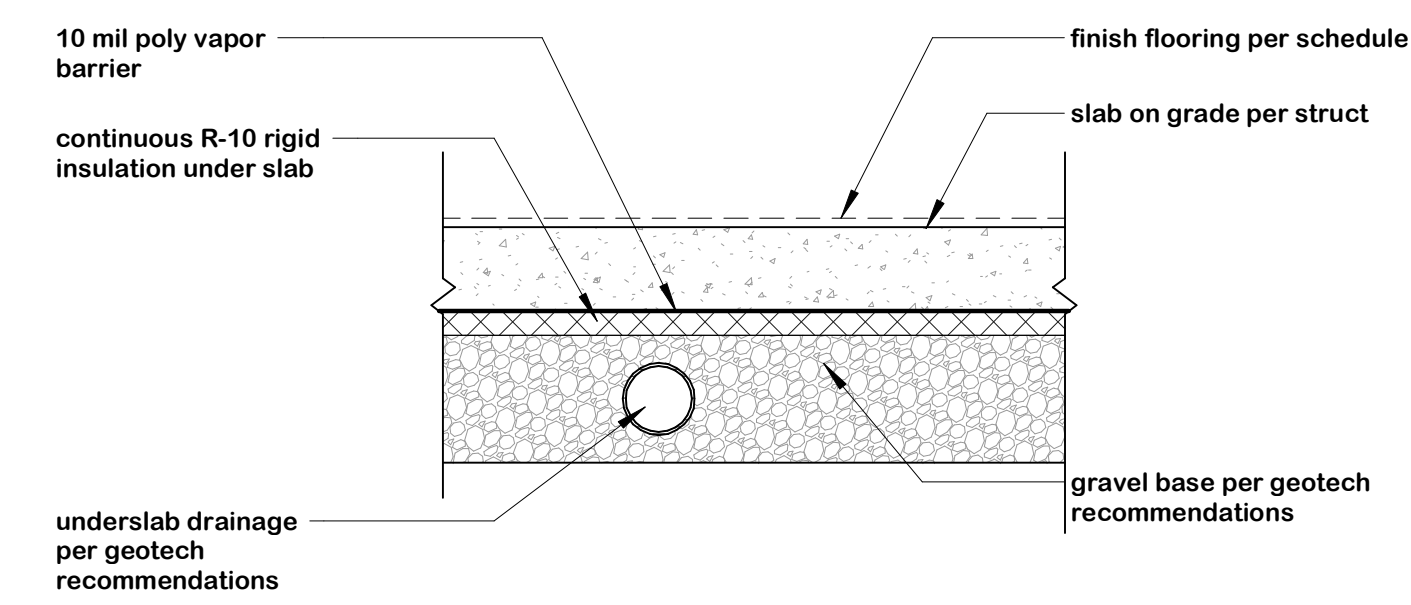
4 deck over living
 3/4" = 1'-0"



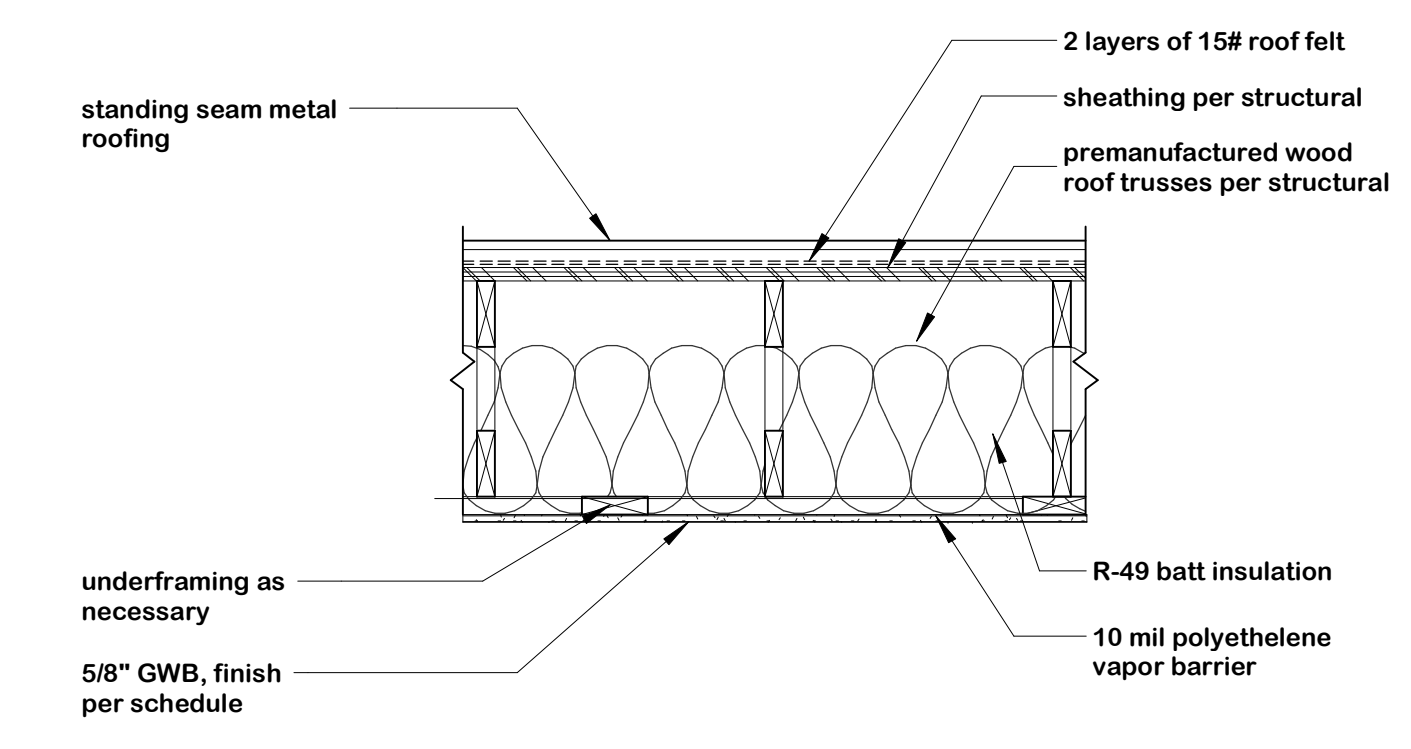
3 typical deck
 3/4" = 1'-0"



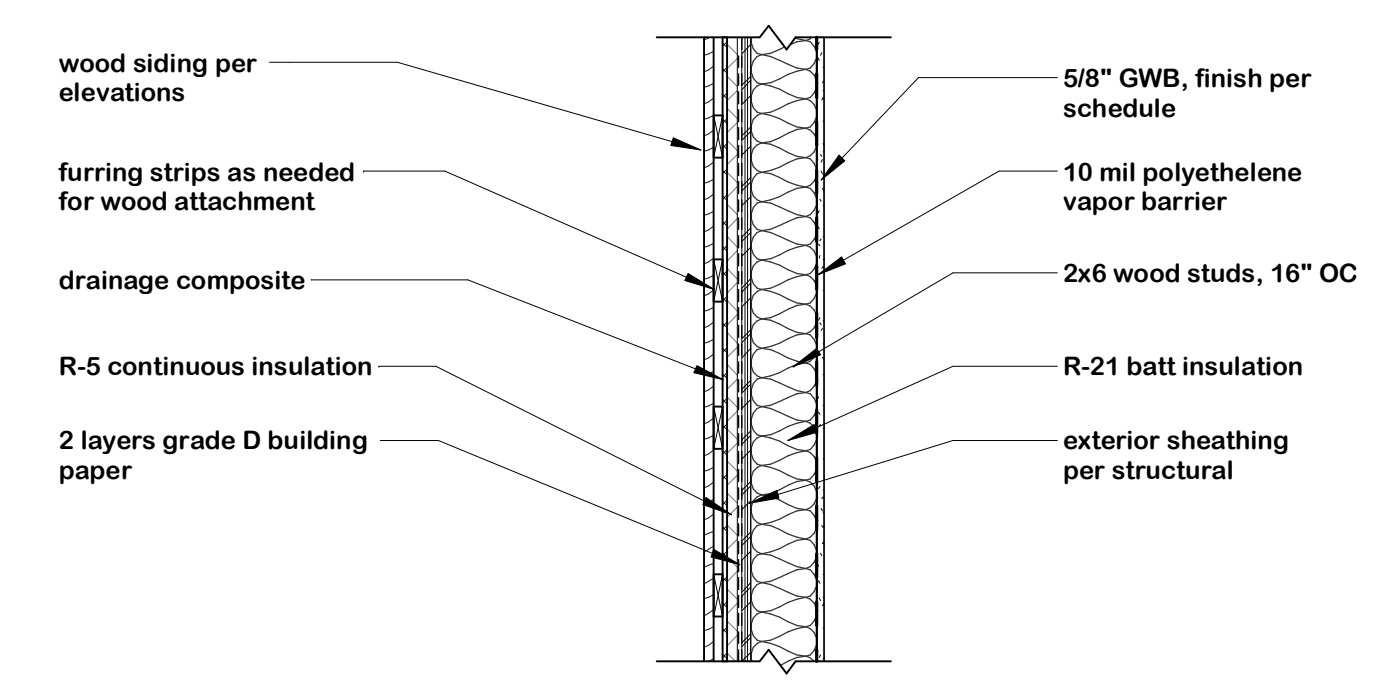
2 typical floor
 3/4" = 1'-0"



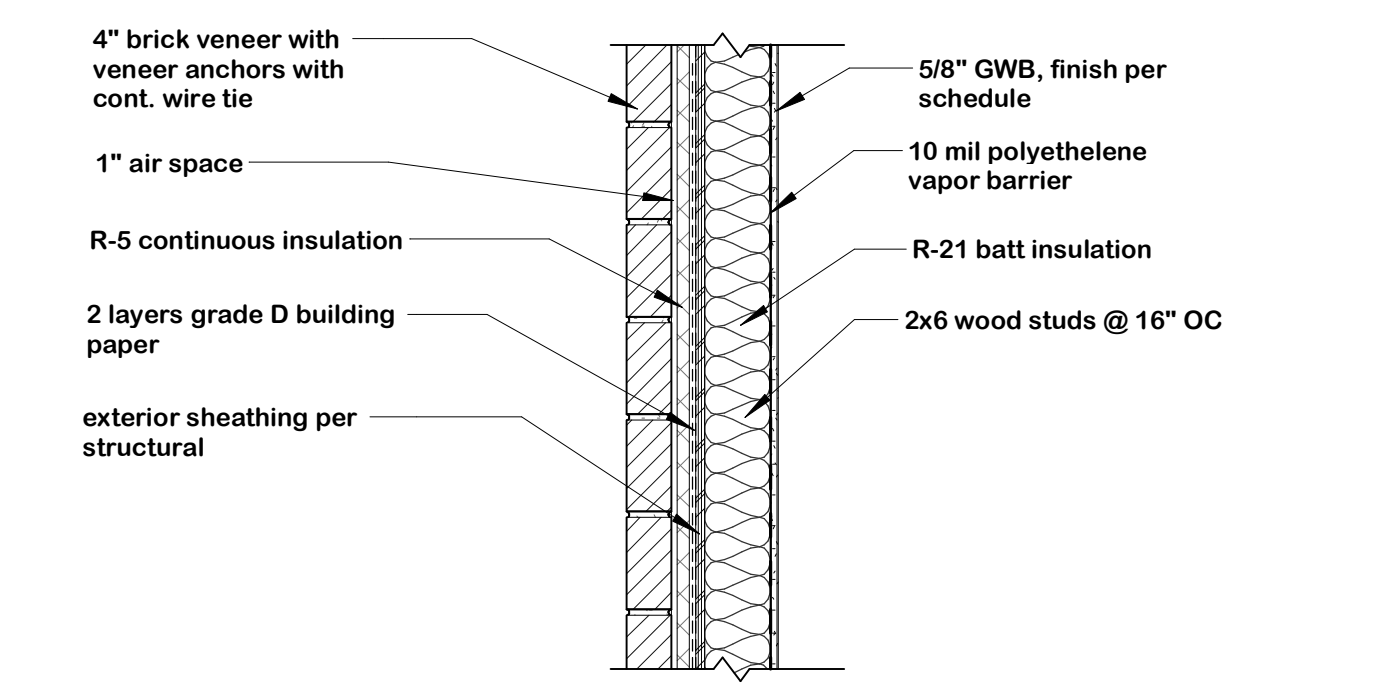
1 slab on grade
 3/4" = 1'-0"



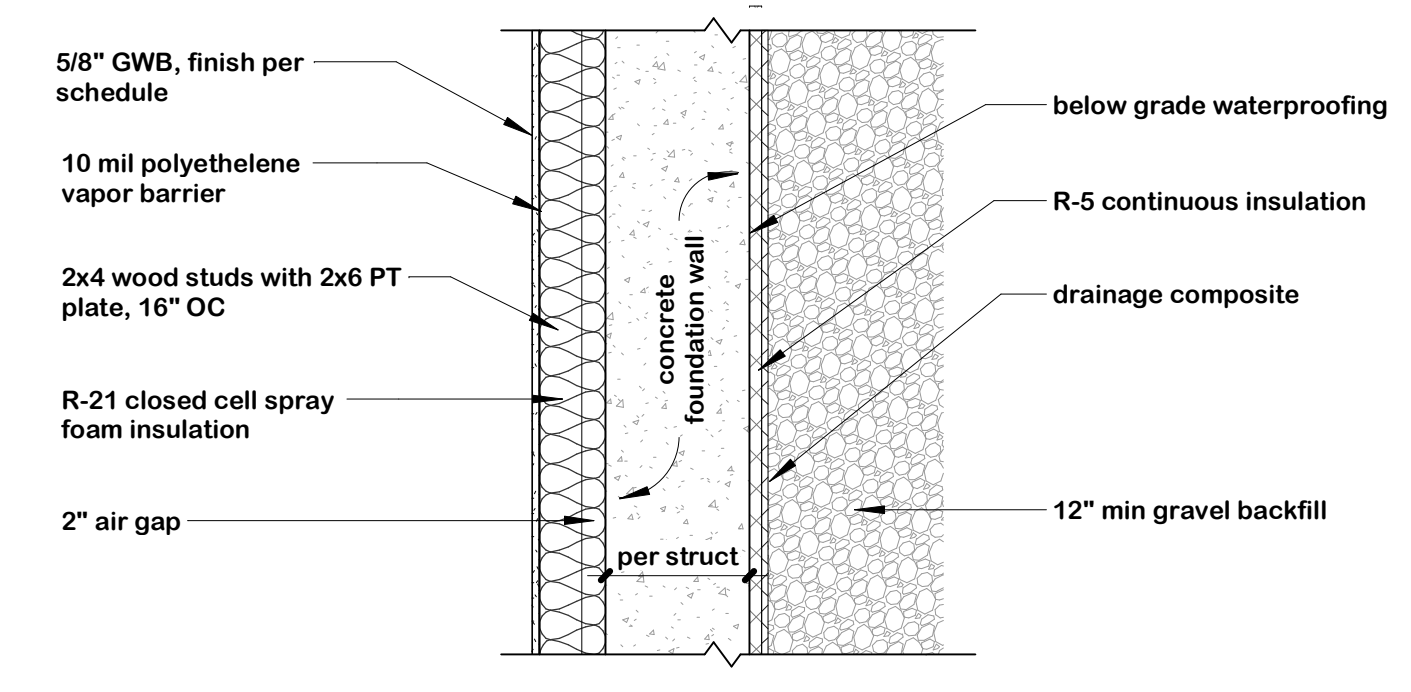
6 metal roof
 3/4" = 1'-0"



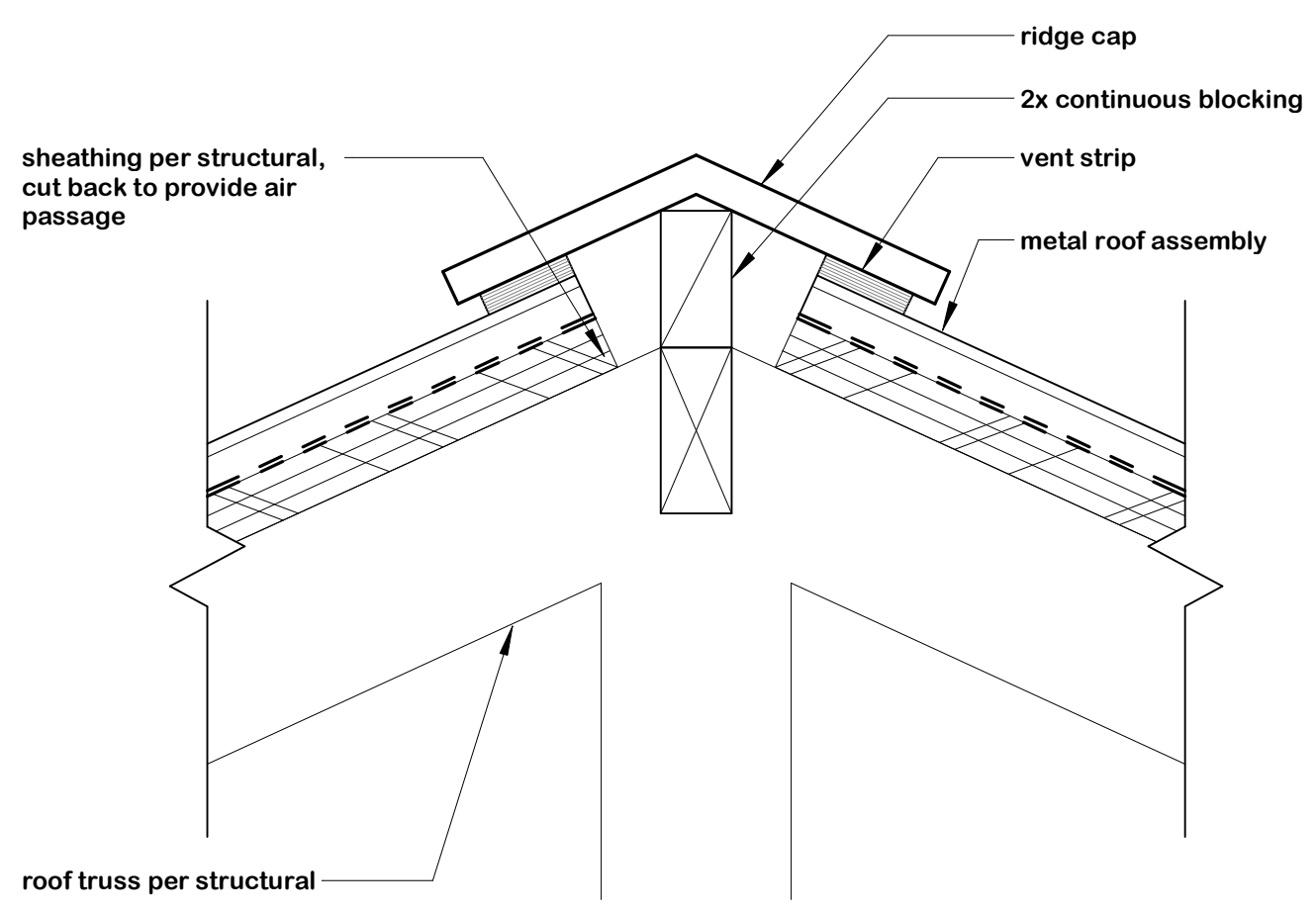
14 exterior wood wall
 3/4" = 1'-0"



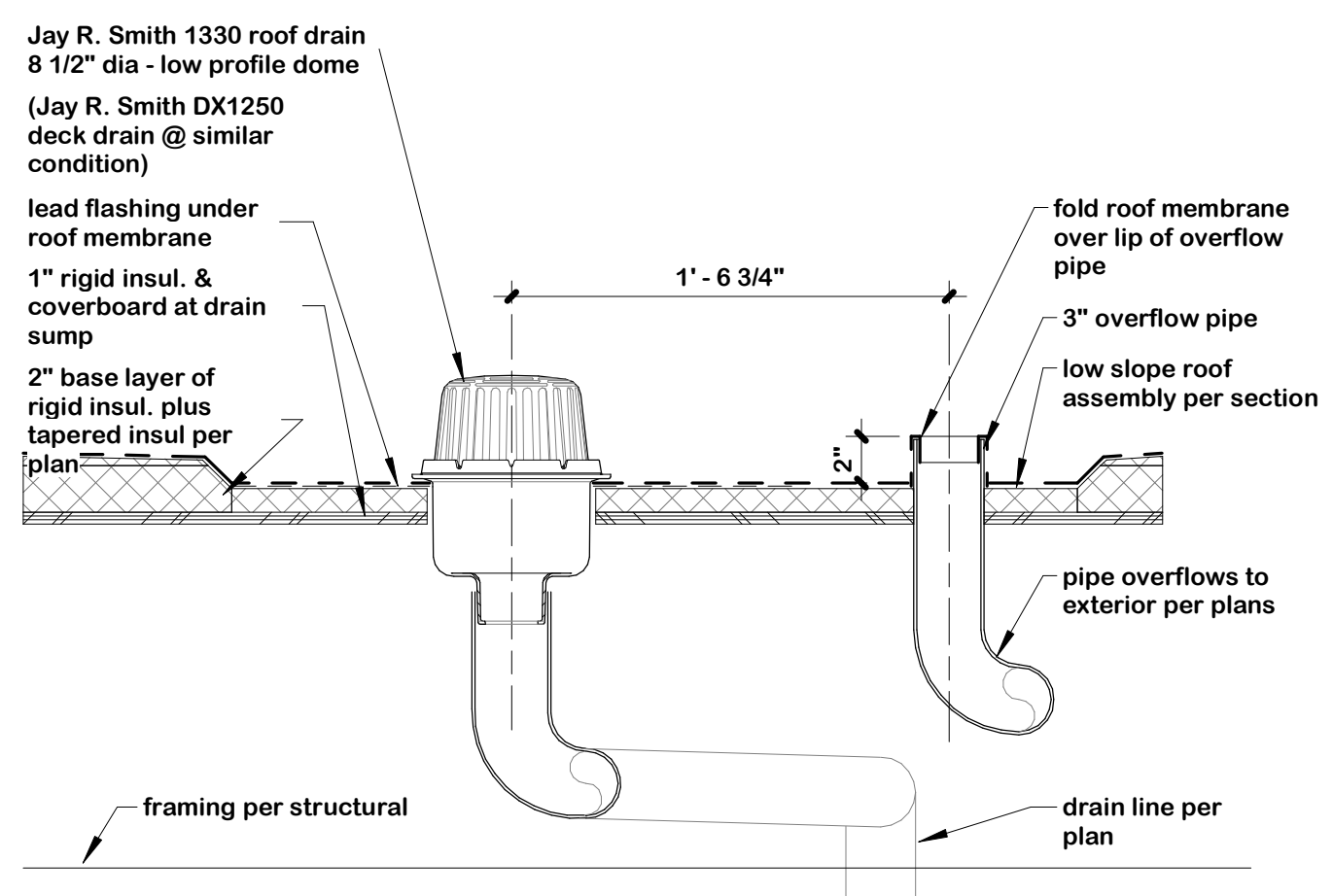
13 exterior brick veneer wall
 3/4" = 1'-0"



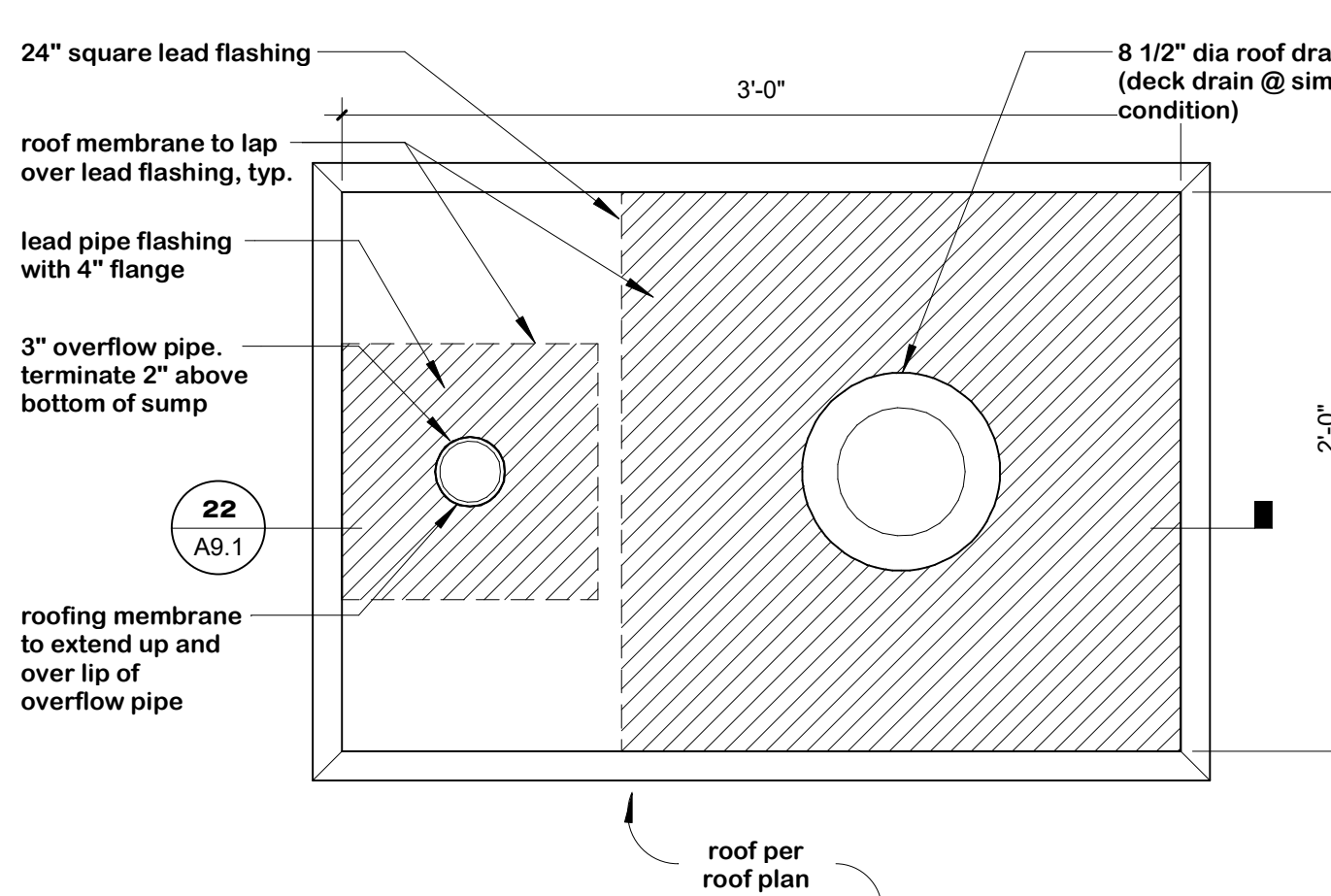
11 insulated below grade wall
 3/4" = 1'-0"



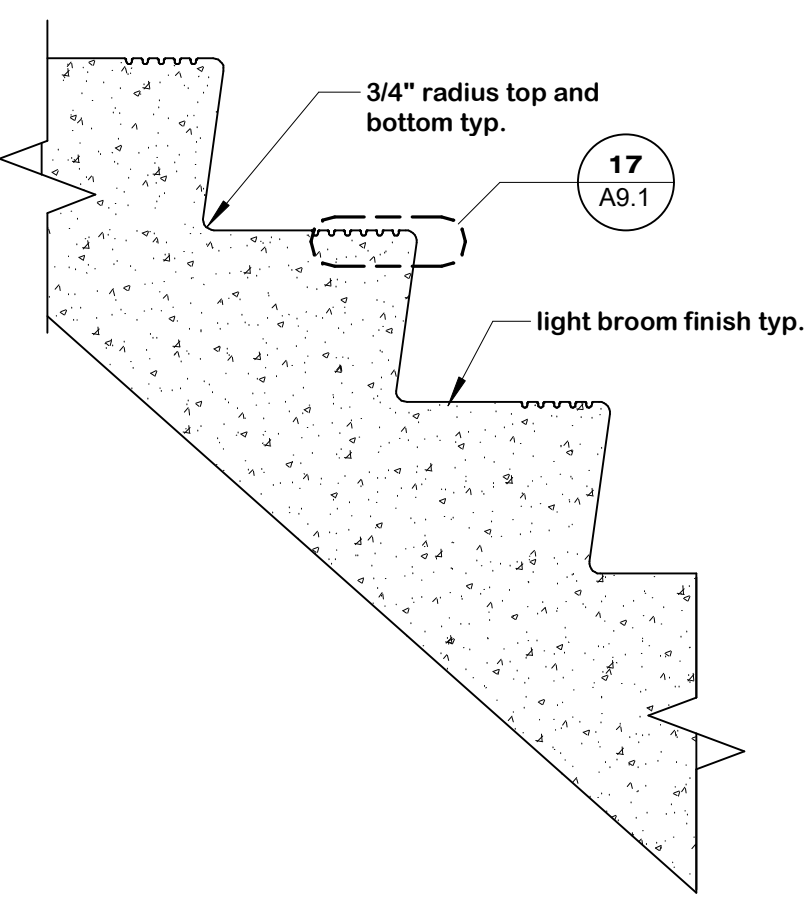
23 typical vented roof ridge
3" = 1'-0"



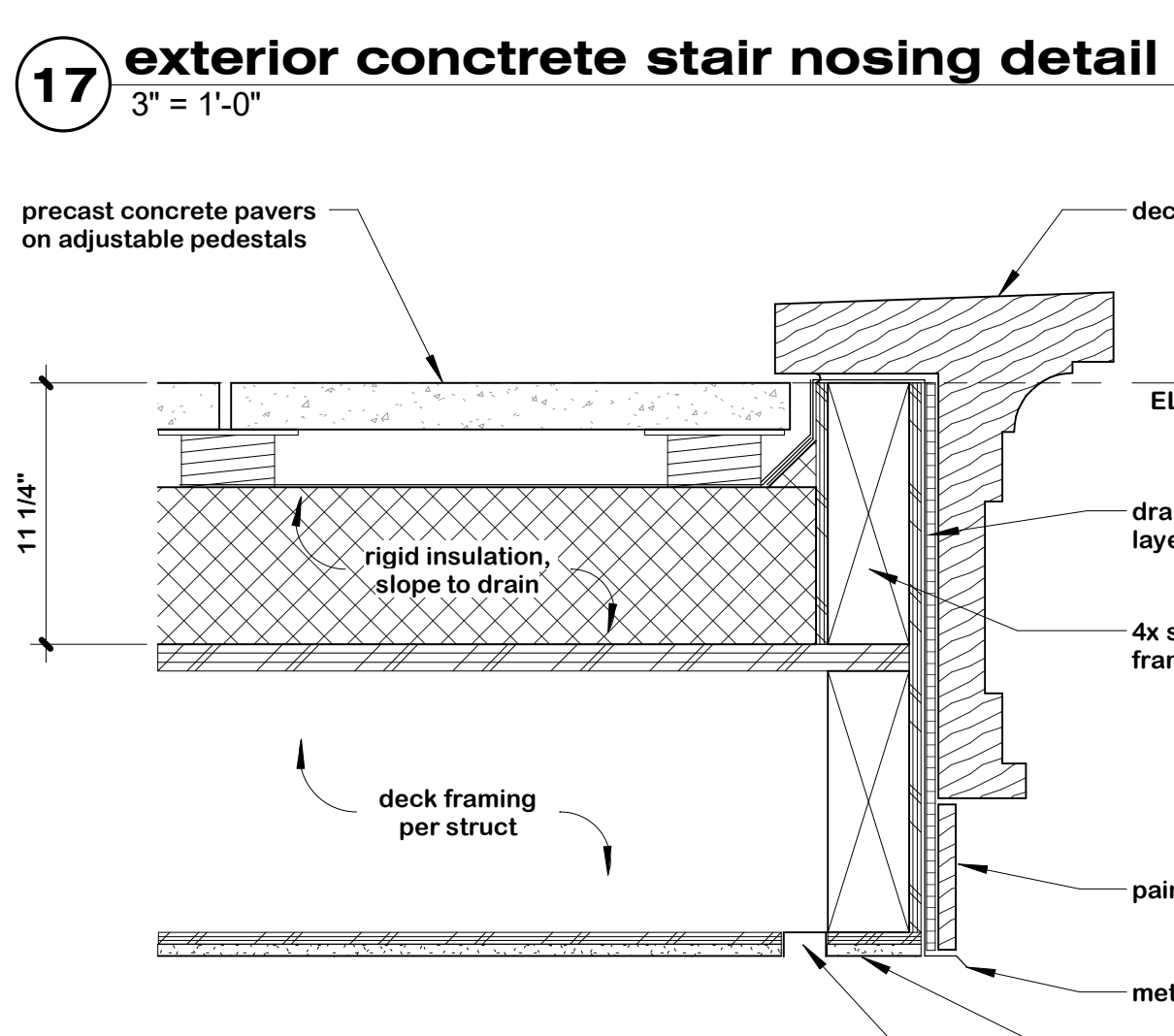
22 roof drain
1 1/2" = 1'-0"



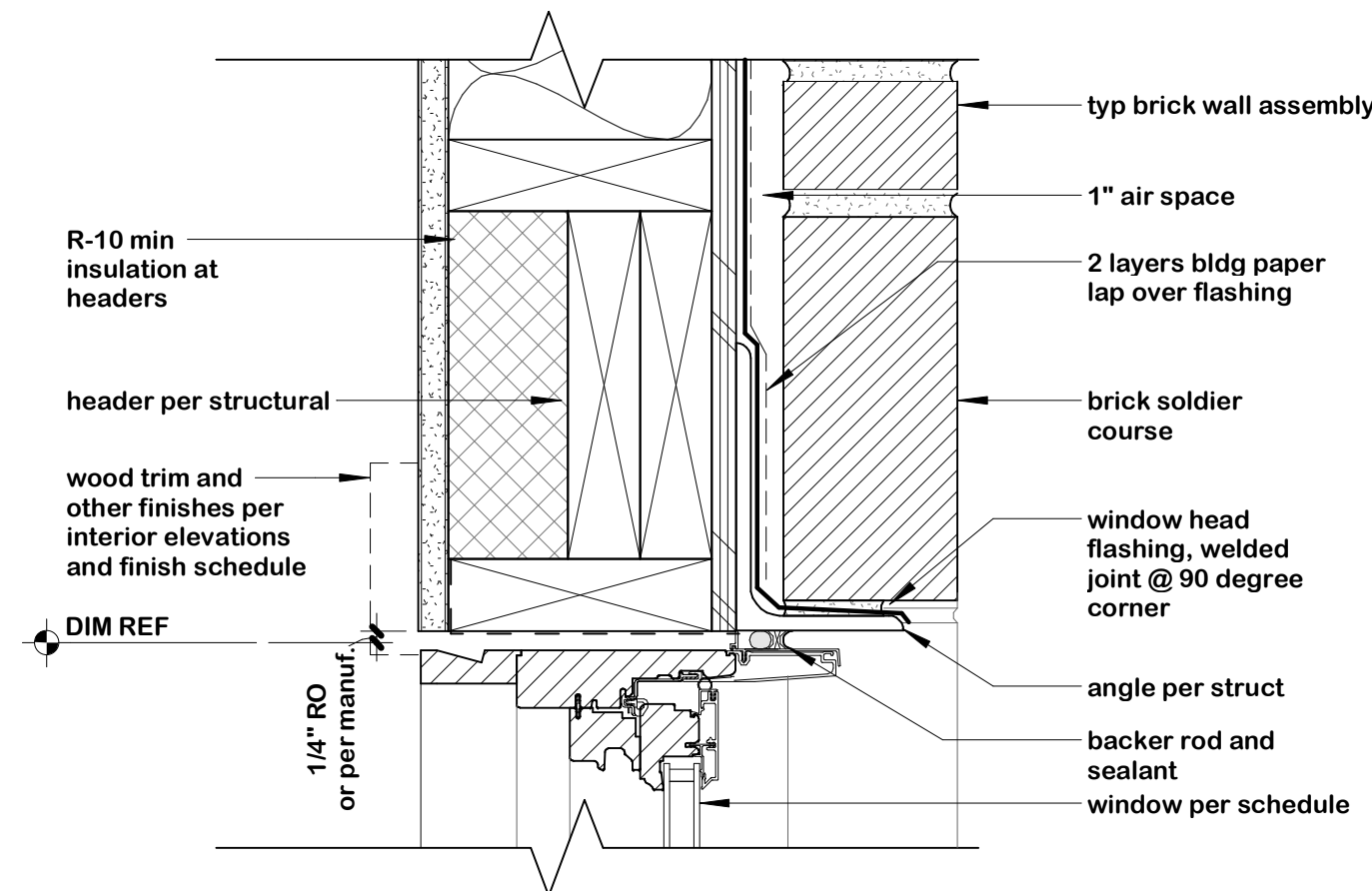
21 drain sump
1 1/2" = 1'-0"



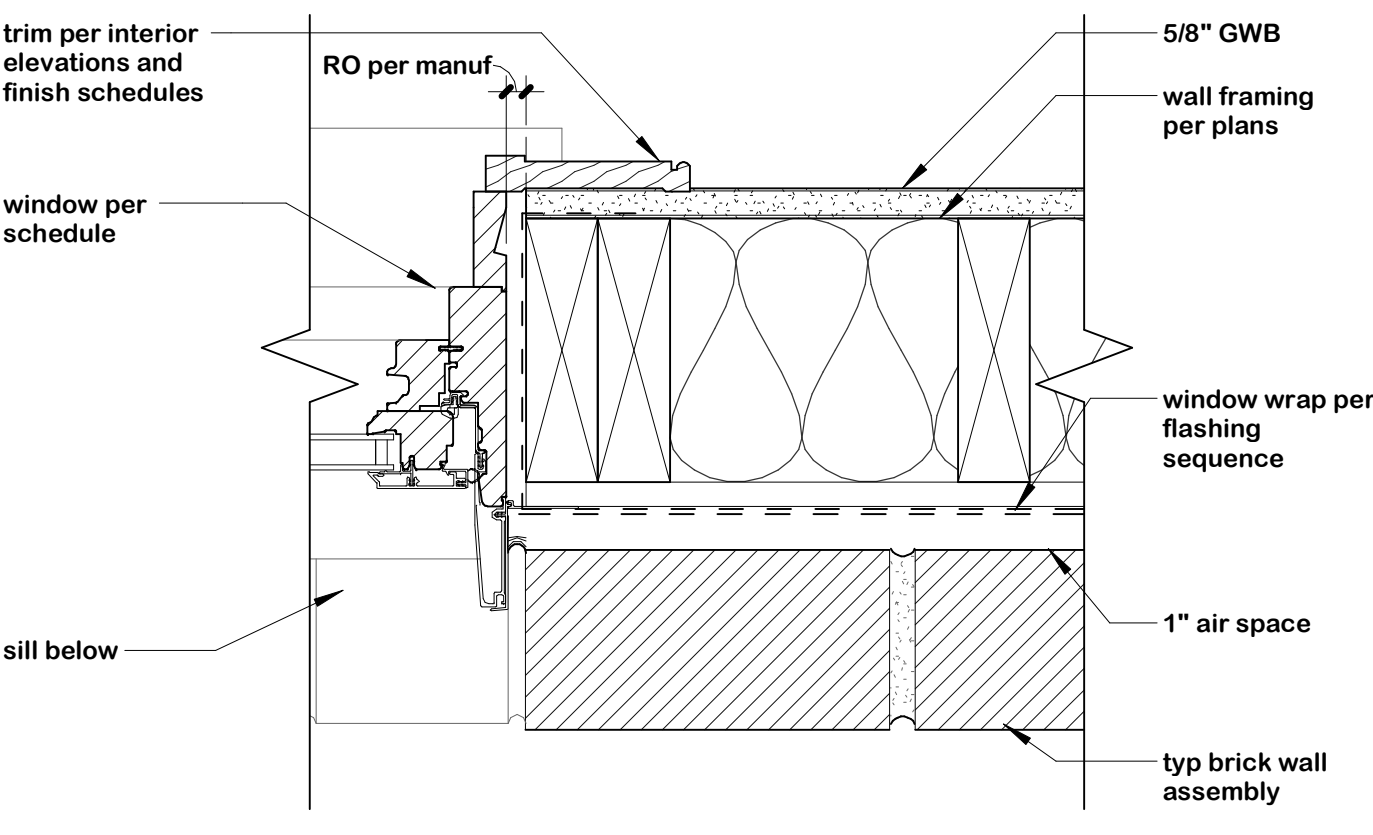
18 exterior concrete stair detail
3" = 1'-0"



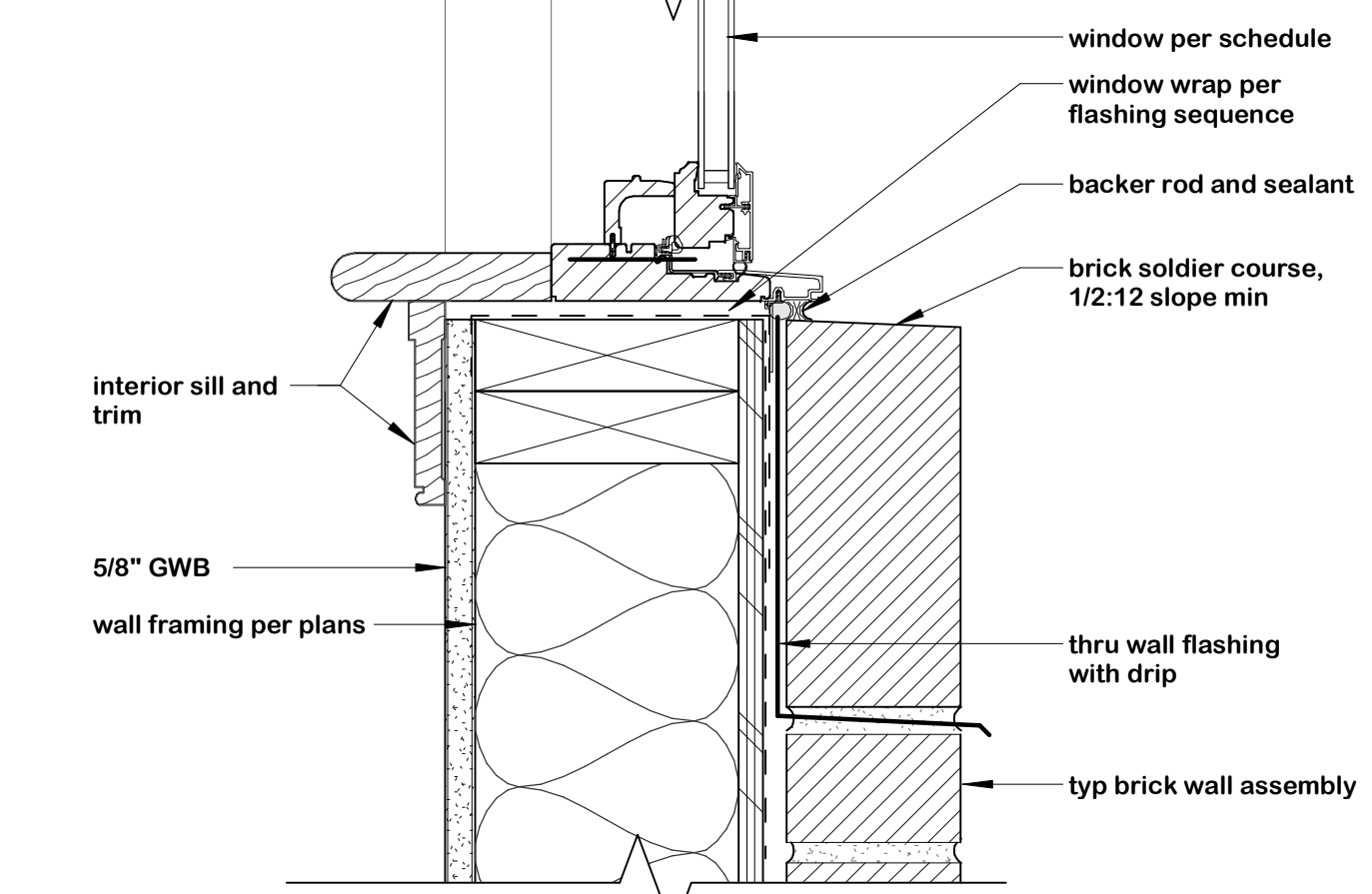
16 deck edge detail
1 1/2" = 1'-0"



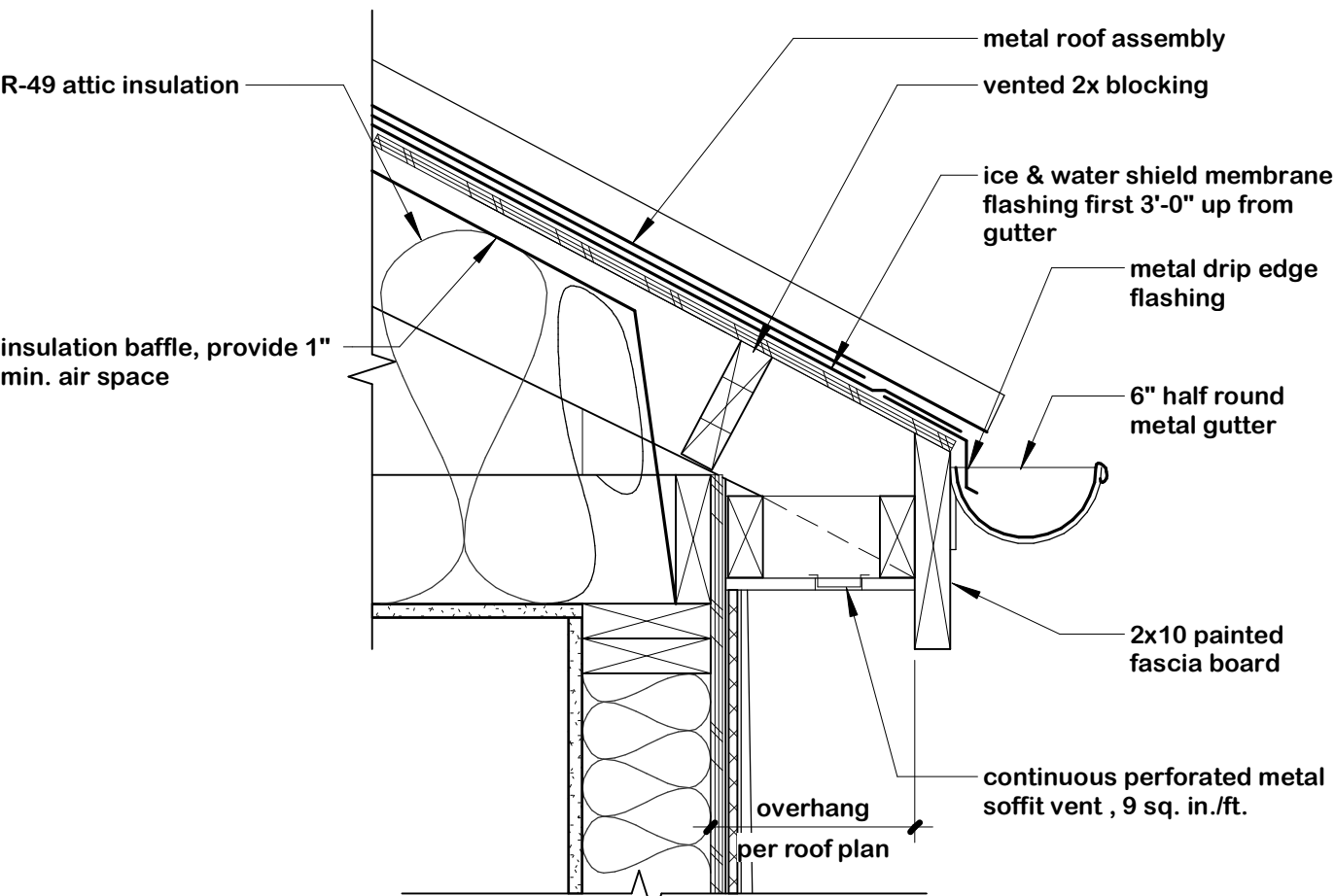
15 window head @ brick
3" = 1'-0"



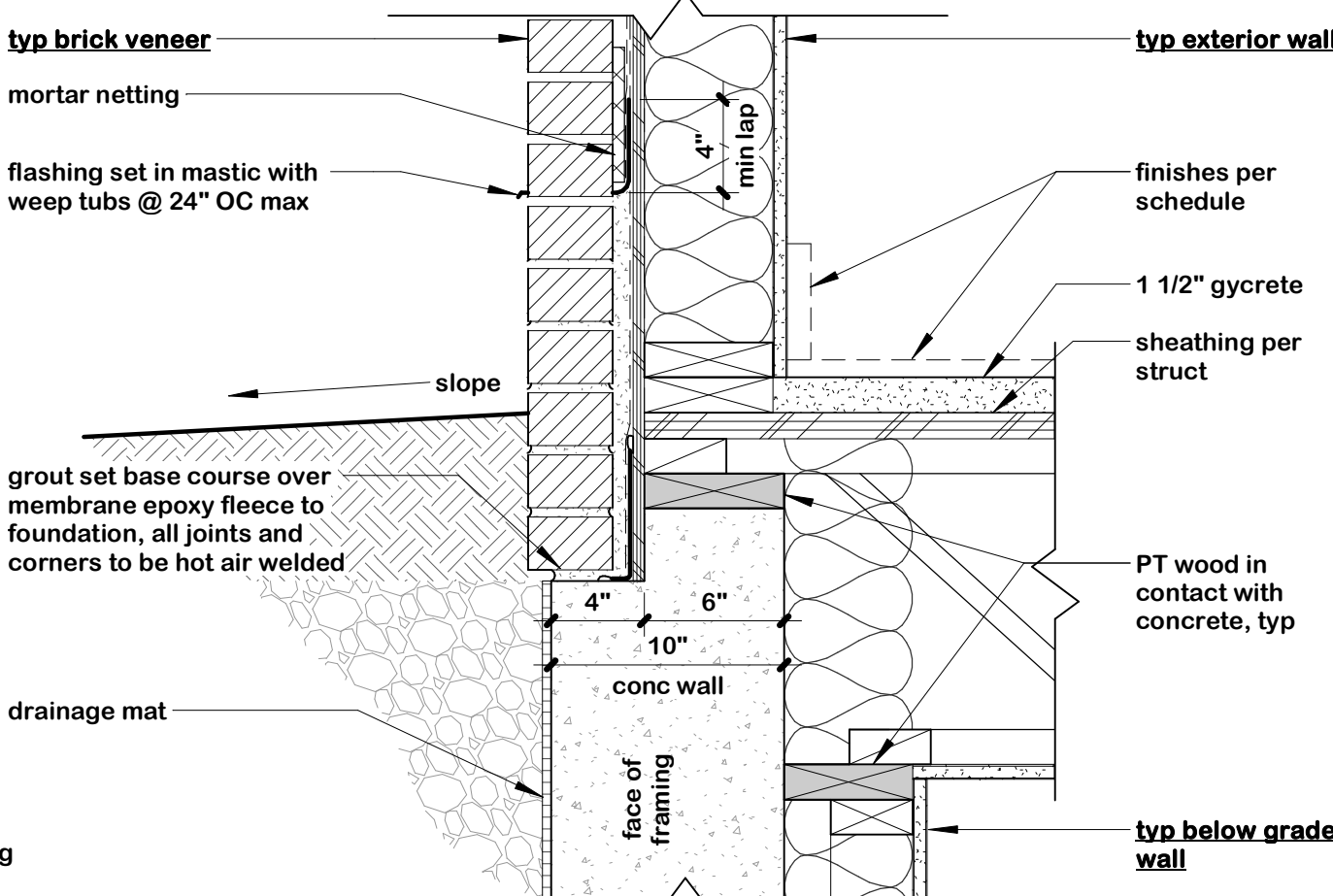
14 window jamb @ brick
3" = 1'-0"



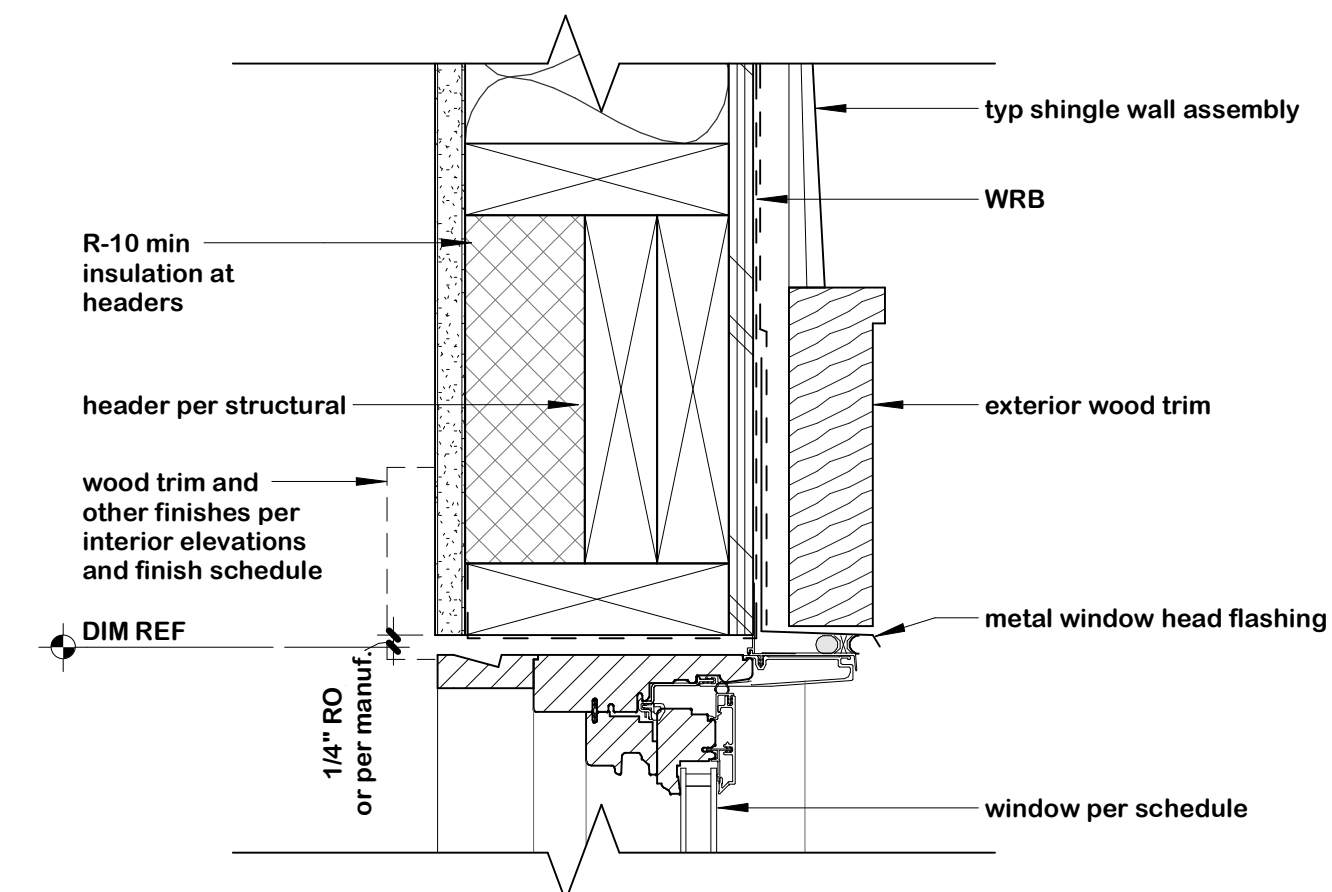
13 window sill @ brick
3" = 1'-0"



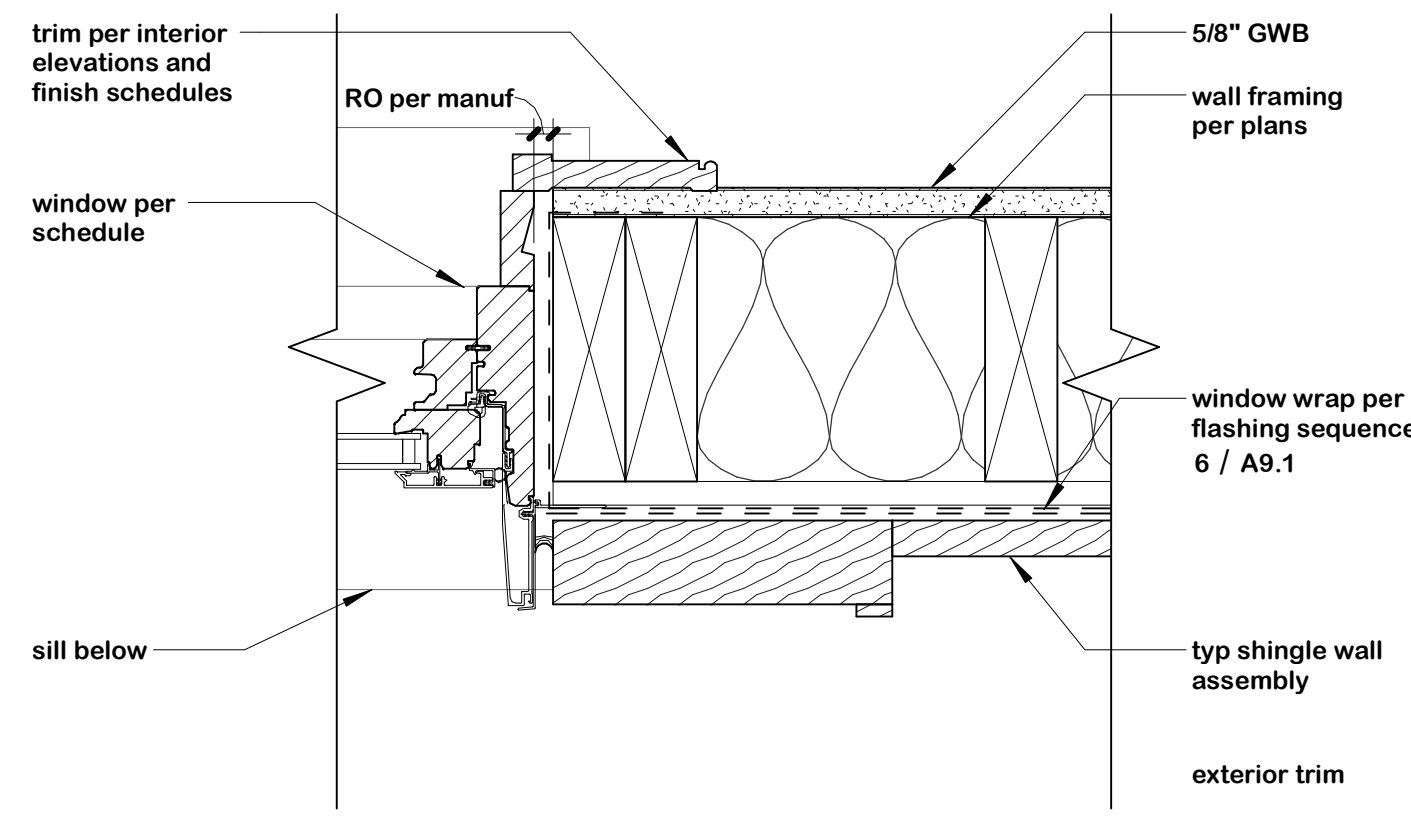
12 roof eave - typ.
1 1/2" = 1'-0"



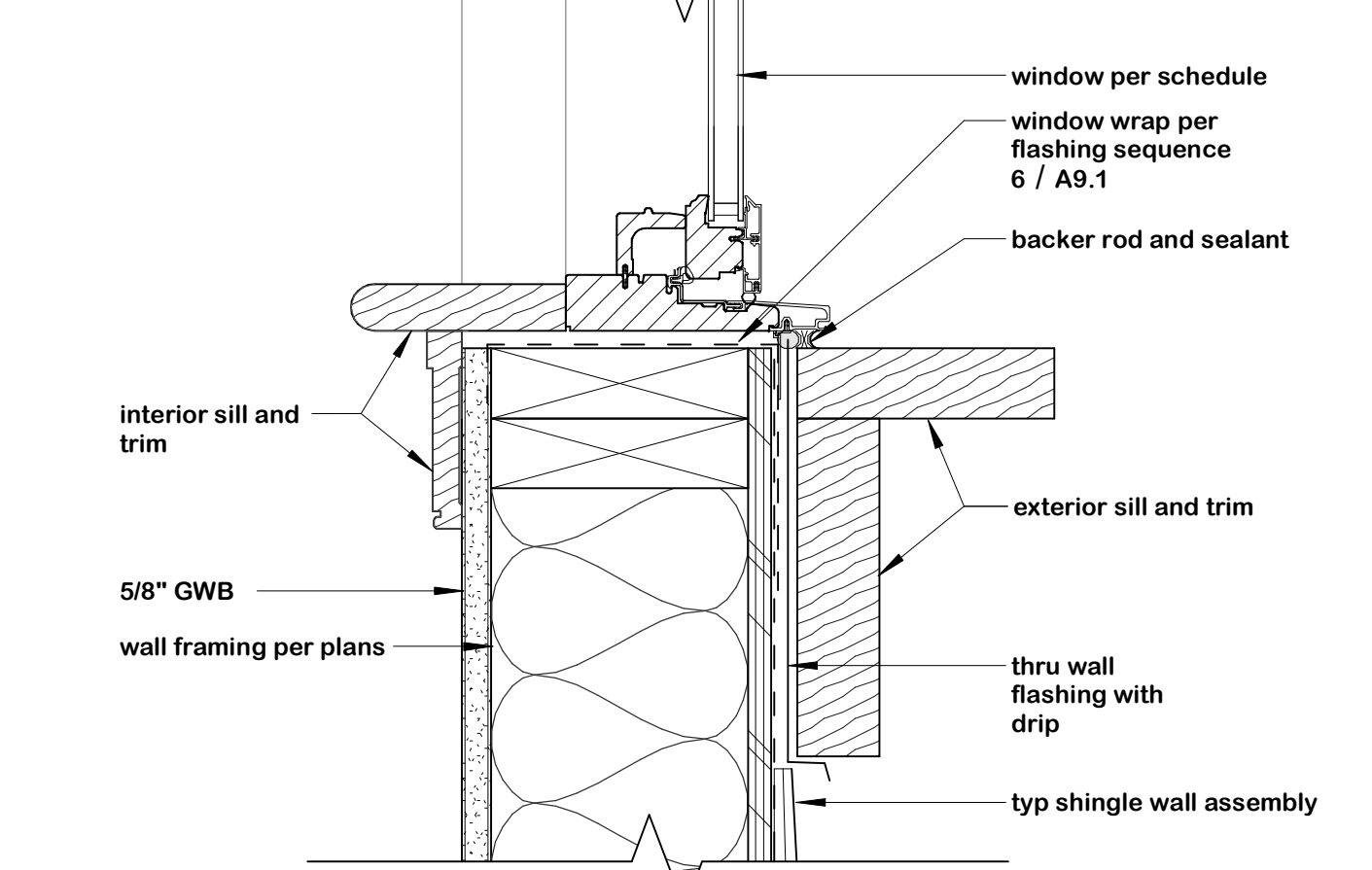
11 typ foundation @ brick
1 1/2" = 1'-0"



10 window head @ shingles
3" = 1'-0"



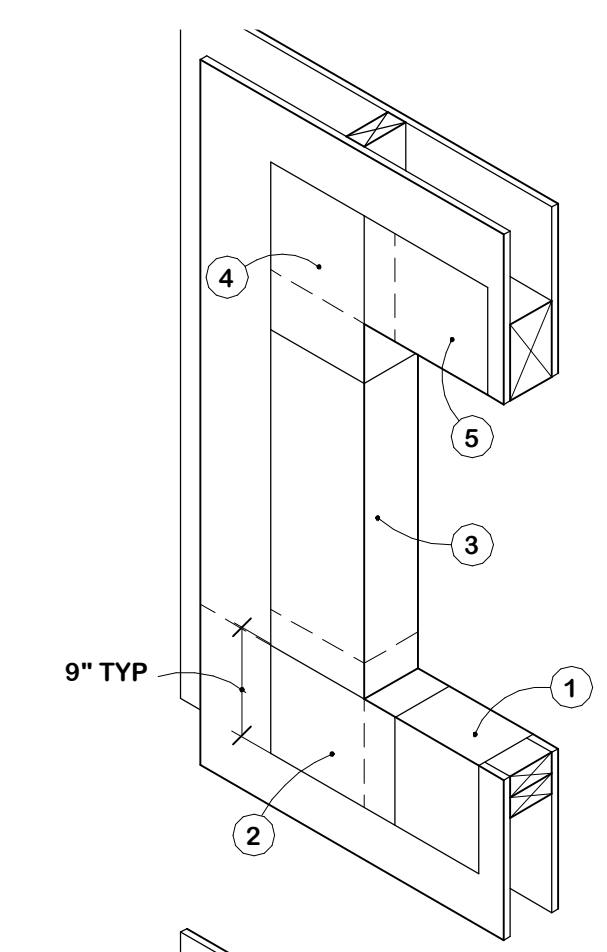
9 window jamb @ shingles
3" = 1'-0"



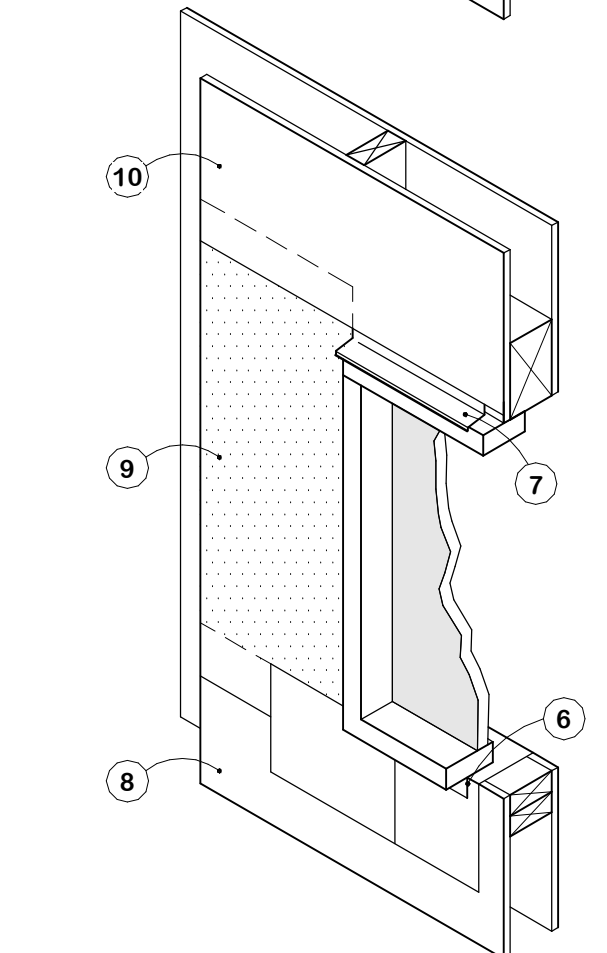
8 window sill @ shingles
3" = 1'-0"

general rough opening flashing sequence notes:

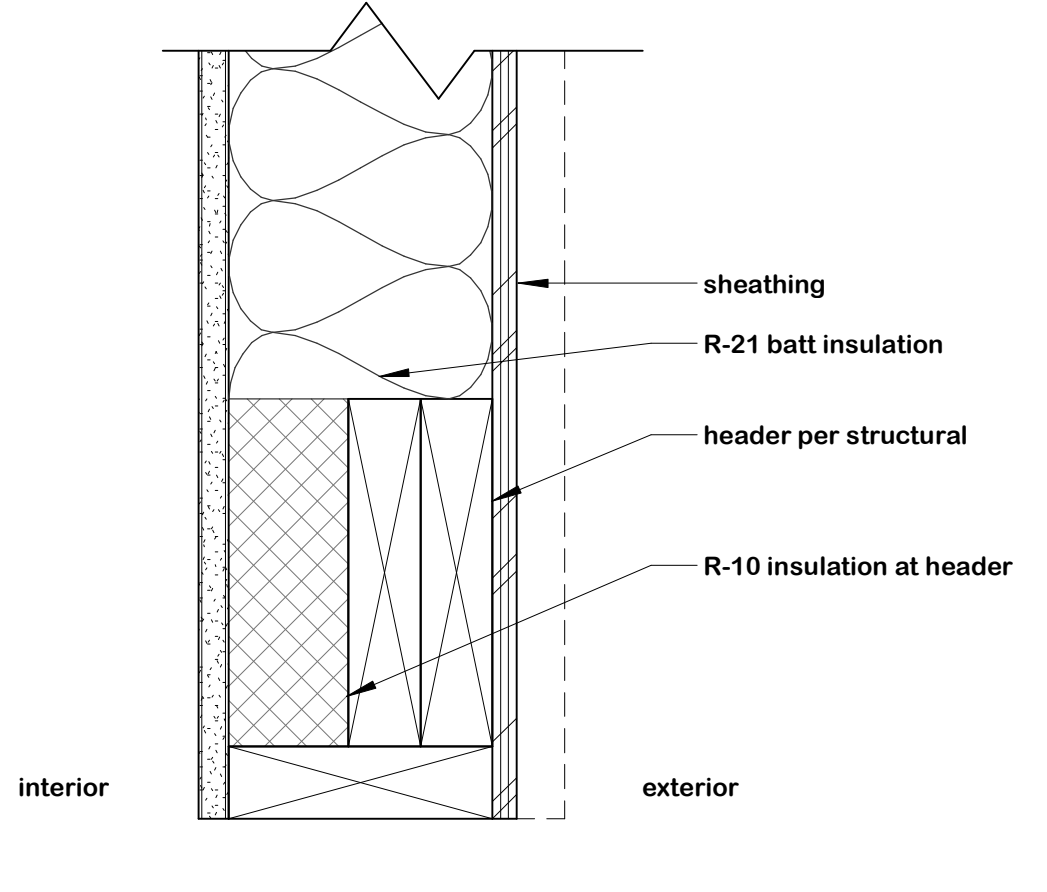
- 1 install flashing along entire sill, leave bottom loose to overlap WRB later
- 2 install pre-formed corner flashing @ lower corner each side
- 3 install flashing along entire length of jamb
- 4 install pre-formed corner flashing @ upper corner each side
- 5 install flashing along entire length of head



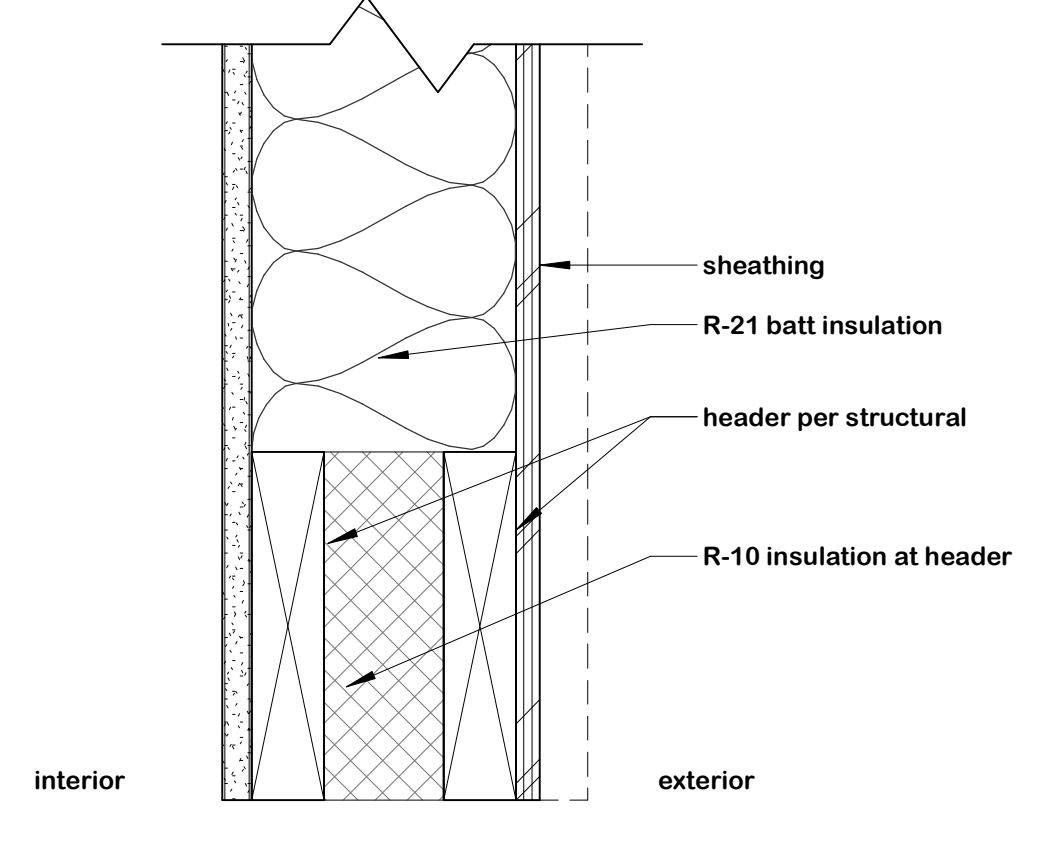
- 6 provide continuous bead of sealant on backside of nailing flange and install window per manuf.
- 7 typical head flashing per details, extend past window frame 1/2" ea side
- 8 tuck WRB under window flashing at sill
- 9 apply WRB in a shingled fashion, overlapping layers below
- 10 WRB shall overlap head flashing



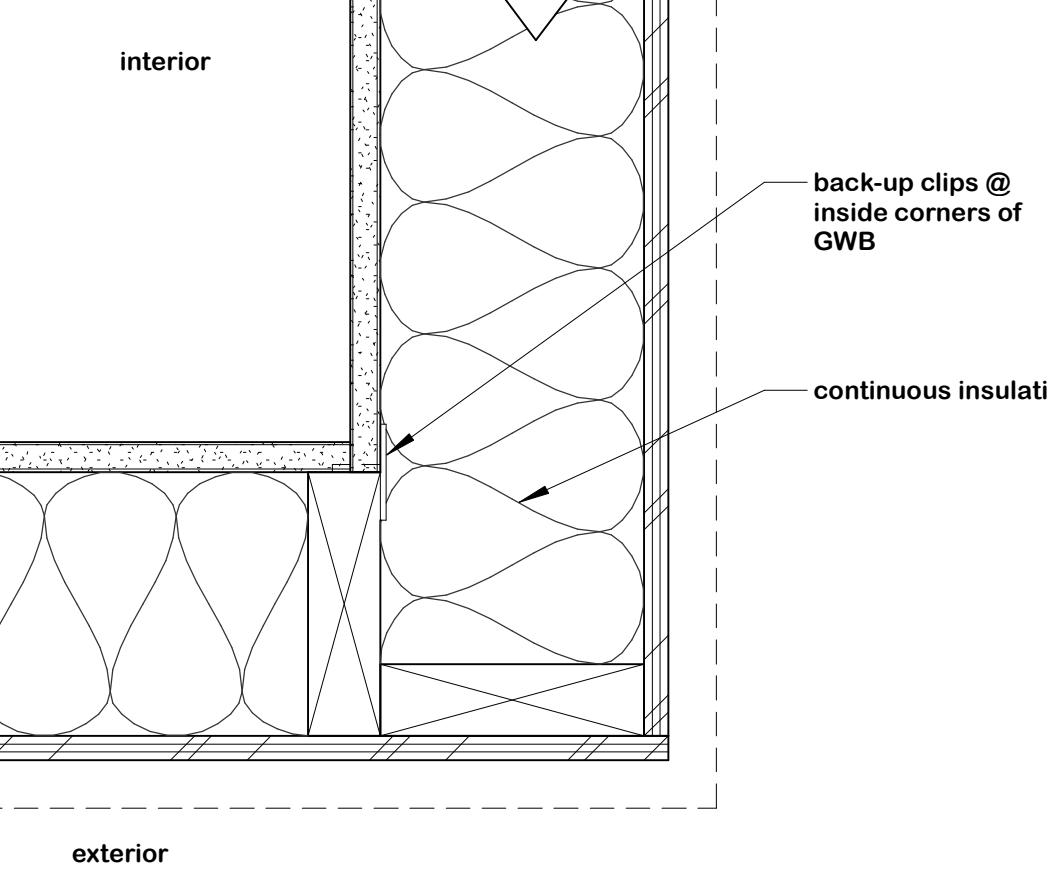
6 window flashing sequence
3/4" = 1'-0"



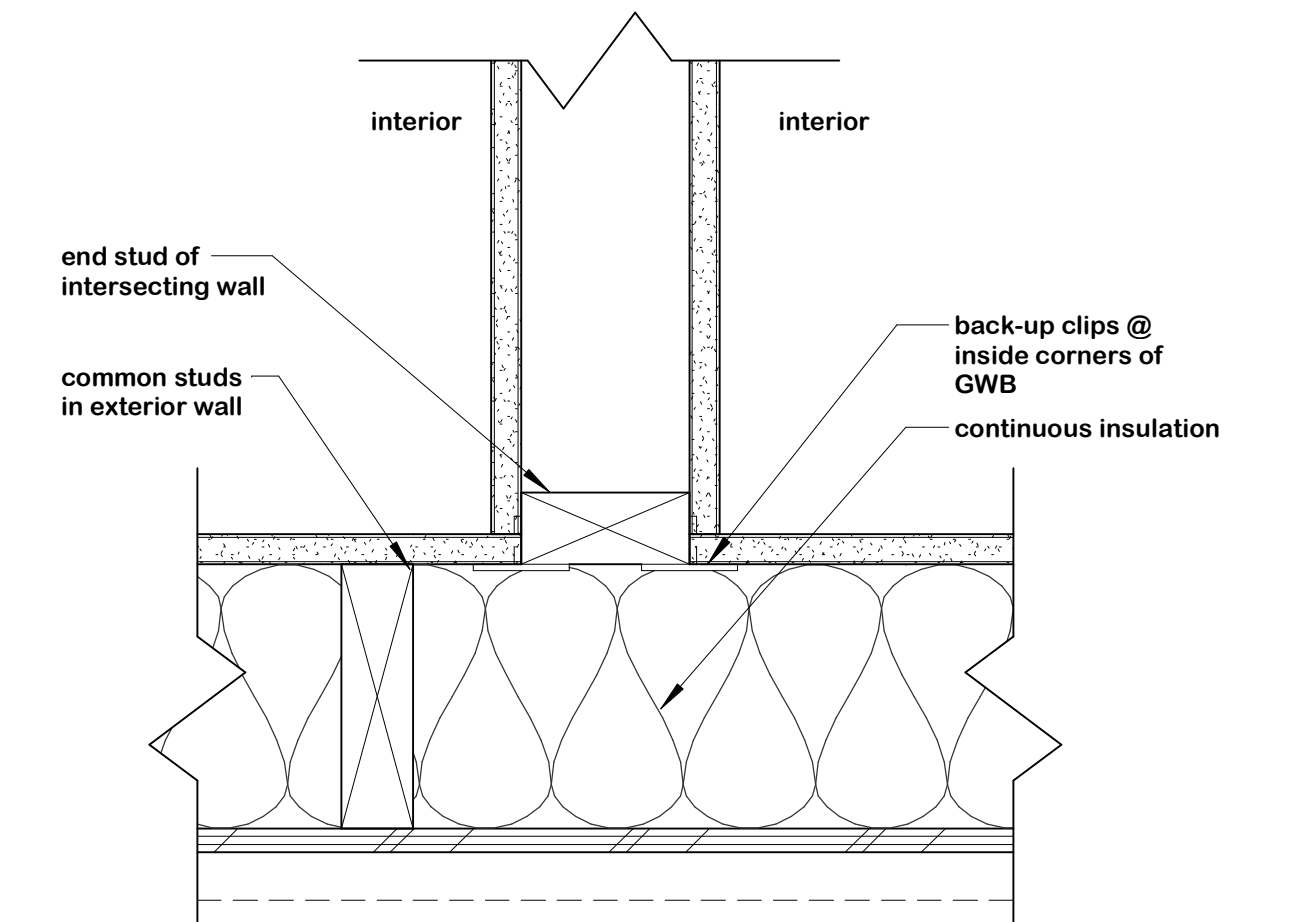
5 header framing stacked
3" = 1'-0"



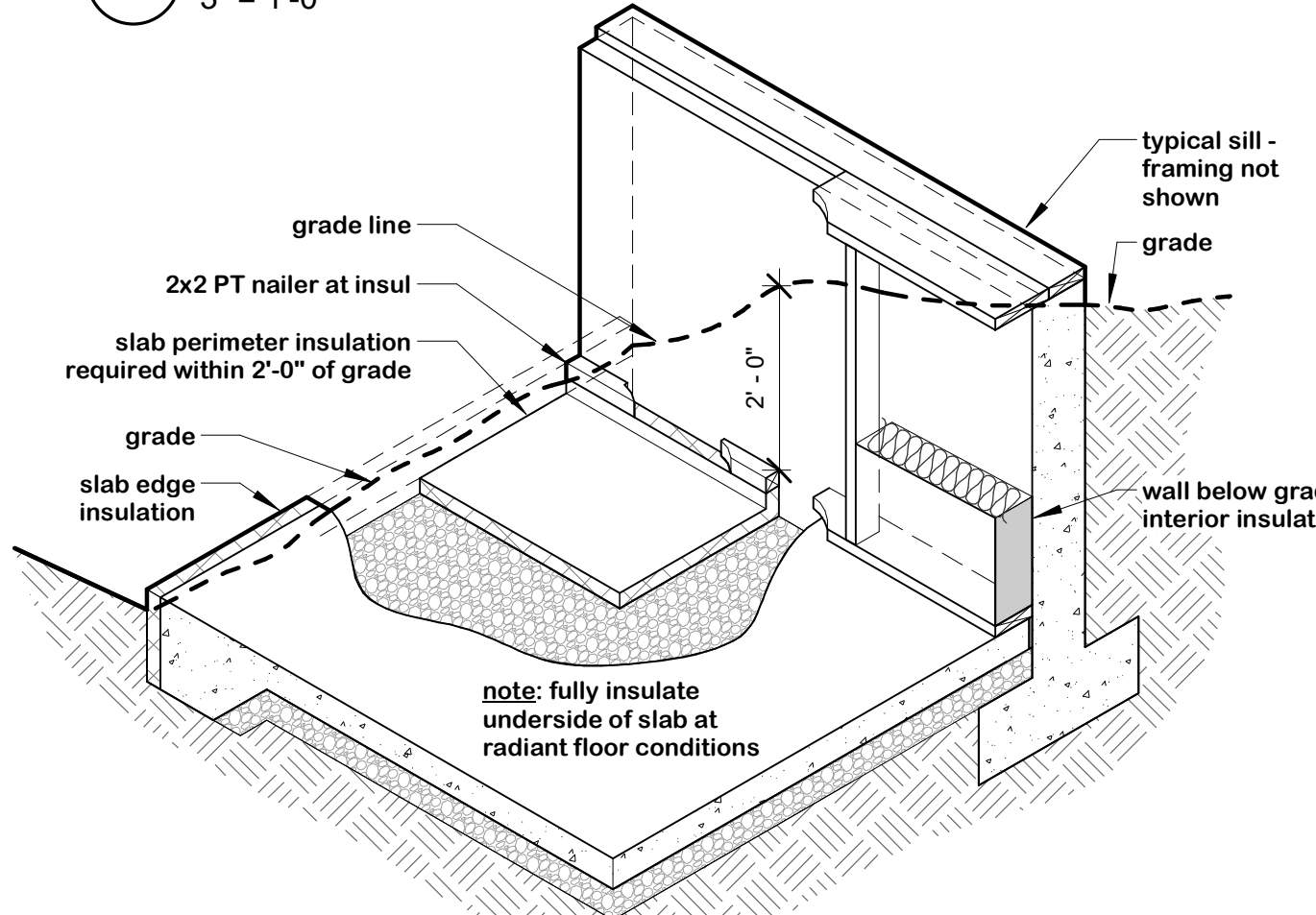
4 header framing
3" = 1'-0"



3 framing corner @ exterior wall
3" = 1'-0"



2 framing intersection @ exterior wall
3" = 1'-0"



1 schematic corner - daylight basement wall interior insulation
1/2" = 1'-0"

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2015 EDITION).
- DESIGN LOADING CRITERIA:
RESIDENTIAL – ONE AND TWO-FAMILY DWELLINGS
FLOOR LIVE LOAD 40 PSF
ROOF 20 PSF
ROOF LIVE LOAD 25 PSF
GARAGES
FLOOR LIVE LOAD (PASSENGER VEHICLES) 40 PSF
FLOOR CONCENTRATED LOAD (PASSENGER VEHICLES) 3000 LBS
MISCELLANEOUS LOADS
DECKS 1.5 x AREA SERVED
DEFLECTION CRITERIA
LIVE LOAD DEFLECTION L/700
TOTAL LOAD DEFLECTION L/500
ENVIRONMENTAL LOADS
WIND Gcp1=0.18, 110 MPH, RISK CATEGORY II, EXPOSURE "C"
EARTHQUAKE . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS, Vs = 35.7 KIPS
SITE CLASS=0, Ss=1.4, Sds=.94, S1=.54, SD1=.54, Cs=0.144
SDC D, Ie=1.0, Re=5
SEE PLANS FOR ADDITIONAL LOADING CRITERIA

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING, ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.

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 SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

6. 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".

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

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

- CONNECTOR PLATE WOOD ROOF TRUSSES
- METAL DECKING
- STRUCTURAL STEEL

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

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

10. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT. BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED, AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

QUALITY ASSURANCE

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

STRUCTURAL STEEL FABRICATION AND ERECTION PER AISC 360
EPOXY GROUTED INSTALLATIONS PER MANUFACTURER
DRIVEN DEEP FOUNDATION PER GEOTECH REQUIREMENTS

PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS.
CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.
- UNLESS OTHERWISE NOTED, THE FOLLOWING ELEMENTS COMPRISE THE SEISMIC-FORCE-RESISTING SYSTEM AND ARE SUBJECT TO SPECIAL INSPECTION FOR SEISMIC RESISTANCE IN ACCORDANCE WITH SECTION 1705.12 OF THE INTERNATIONAL BUILDING CODE.

A. STRUCTURAL STEEL MOMENT FRAMES AND BRACED FRAMES REQUIRE CONTINUOUS INSPECTION FOR WELDING PER AISC 341 EXCEPT SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16-INCH.

B. STRUCTURAL WOOD SHEAR WALL SYSTEMS REQUIRE PERIODIC INSPECTION FOR FIELD GLUEING, NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE, RESISTING SYSTEM INCLUDING SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLDDOWS.

GEOTECHNICAL

- FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH OR COMPACTED STRUCTURAL FILL AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

ALLOWABLE SOIL PRESSURE (NATIVE SOILS)	2500PSF
LATERAL EARTH PRESSURE (UNRESTRAINED/ AT STEEP SLOPE)	40 PCF / 60 PCF
ACTIVE PRESSURE AT CATCHMENT WALL	100 PCF
ALLOWABLE PASSIVE EARTH PRESSURE (ULTIMATE)	300 PCF
COEFFICIENT OF FRICTION (ULTIMATE)	0.4
SEISMIC SURCHARGE PRESSURE (UNIFORM LOAD)	8H PSF
4" DIA. PILE CAPACITY (COMPRESSION/LATERAL)	10 T / .5 T

SOILS REPORT REFERENCE:

GEOTECH CONSULTANTS, INC
2401 10TH AVE E
SEATTLE, WA, 98102
425-747-5618
JANUARY 3RD, 2017
JN16543

- PIN PILES SHOWN ON THE PLAN SHALL BE 4" DIAMETER SCHEDULE 80. THE MAXIMUM CAPACITY OF PILES SHALL BE 10 TONS. ALL PILES SHALL BE DRIVEN TO REFUSAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AS A MINIMUM, PILE REFUSAL SHALL BE DEFINED AS 1/4 INCH OF PENETRATION IN 16 SECONDS DURING CONTINUOUS DRIVING OF A 850 LB HYDRAULIC JACK HAMMER. PILES USED IN COMMON TO RESIST LATERAL EARTH PRESSURES SHALL HAVE THE ADDITIONAL REQUIREMENT OF BEING EMBEDDED A MINIMUM OF 10 FEET BELOW RETAINED GRADE. THE MAXIMUM PILE ECCENTRICITY SHALL BE 2 INCHES. GEOTECHNICAL SPECIAL INSPECTION SHALL BE SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SEE PLANS FOR OTHER SIZES AND CRITERIA.

CONCRETE

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

16. A CONCRETE PERFORMANCE MIX SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER/CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 318, SECTION 5.3. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS; CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

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

18. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, Fy = 60,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

19. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-11. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-11 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.

20. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

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

21. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:			
8" WALLS	#4 @ 12 HORIZ.	#4 @ 18 VERTICAL	1 CURTAIN
10" WALLS	#4 @ 18 HORIZ.	#4 @ 18 VERTICAL	2 CURTAINS
12" WALLS	#4 @ 16 HORIZ.	#4 @ 18 VERTICAL	2 CURTAINS

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

23. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

ANCHORAGE

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

25. EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "KWIK BOLT 12" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-1917, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.

26. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "HIT RE 500-SD" AS MANUFACTURED BY HILTI CORP. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2322. MINIMUM BASE MATERIAL TEMPERATURE IS 41 DEGREES F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDD BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

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

28. DRIVE PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE (SERIES X-U, 0.157" DIAMETER (STEEL), UNLESS OTHERWISE NOTED) AS MANUFACTURED BY THE HILTI CORP. OR AN APPROVED EQUIVALENT IN STRENGTH AND EMBEDMENT. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-1663. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3" TO NEAREST CONCRETE EDGE.

MASONRY

29. MASONRY VENEER, 5" MAXIMUM THICKNESS, SHALL BE ANCHORED TO MASONRY BACKING WALLS PER SECTION 1405.6 OF THE INTERNATIONAL BUILDING CODE WITH 7/8" x 22 GAUGE CORRUGATED CORROSION RESISTANT SHEET METAL OR NO. 9 GAGE WIRE ANCHORS MINIMUM. ANCHOR TIES SHALL BE SPACED SO AS TO SUPPORT NOT MORE THAN TWO SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE THAN 32" O.C. HORIZONTALLY AND 25" O.C. VERTICALLY. ATTACHMENTS SHALL BE WITH CORROSION RESISTANT FASTENERS AND CONNECT TO FRAMING MEMBERS OR CONCRETE OR MASONRY BACKING. TIES SHALL HAVE A LIP OR HOOK ON THE EXTENDED LEG THAT WILL ENGAGE OR ENCLOSE A NO. 9 GAGE REINFORCEMENT WIRE. JOINT REINFORCEMENT SHALL BE CONTINUOUS WITH BUTT SPLICES BETWEEN TIES PERMITTED.

STEEL

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

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

30. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, Fy = 50 KSI. OTHER ROLLED SHAPES INCLUDING PLATES, SHALL CONFORM TO ASTM A36, Fy = 36 KSI. STEEL PIPE SHALL CONFORM TO ASTM A-53, TYPE E OR S, GRADE B, Fy = 35 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, Fy = 42 KSI (ROUND), Fy = 46 KSI (SQUARE AND RECTANGULAR). CONNECTION BOLTS SHALL CONFORM TO ASTM A307.

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

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

33. SHOP PRIME ALL STEEL EXCEPT:

- SURFACES TO BE GALVANIZED.
- MEMBERS TO BE WELDED.
- MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.
- SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

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

35. METAL FLOOR AND ROOF DECKING SHALL BE IN ACCORDANCE TO THE FOLLOWING: PROVIDE SIZE, TYPE, GAUGE, AND ATTACHMENT TO THE SUPPORTING STRUCTURE AS SHOWN ON THE PLANS. ARC SEAM AND SPOT (PUDDLE) WELDS FOR FIELD ASSEMBLY OF METAL DECK SHALL BE MADE WITH MINIMUM E60XX ELECTRODES. DECK ALTERNATES MUST BE CONNECTED ACCORDING TO PUBLISHED ICC-ES CRITERIA FOR DIAPHRAGM SHEARS SHOWN. PROVIDE TEMPORARY SHORING WHERE REQUIRED PER MANUFACTURER'S PUBLISHED CRITERIA.

A. NONCOMPOSITE STEEL FLOOR DECKS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ANS1/SD1-NC1.0.

WOOD

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

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

37. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA-EWS IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA-EWS CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-14, Fb = 2,400 PSI, Fv = 266 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-18, Fb = 2400 PSI, Fv = 265 PSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS TO 3,500' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.

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

TOP CHORD LIVE LOAD	25 PSF
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD DEAD LOAD	5 PSF
TOTAL LOAD	40 PSF
WIND UPLIFT (TOP CHORD)	5 PSF
BOTTOM CHORD LIVE LOAD	10 PSF
(BOTTOM CHORD LIVE LOAD DOES NOT ACT CONCURRENTLY WITH THE ROOF LIVE LOAD)	

WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL), SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BE SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC., SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED ON THE PLANS. PROVIDE ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. PROVIDE FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

39. PLYWOOD SHEATHING SHALL BE GRADE C-0, 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.

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

FLOOR SHEATHING SHALL BE 1-1/8" (NOMINAL) WITH SPAN RATING 48/24.

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

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

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

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

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

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

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

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

43. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-2015. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL T1J JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE-SIZED BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

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

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

44. WOOD FASTENERS

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

SIZE	LENGTH	DIAMETER
8d	2-1/2"	0.131"
16d BOX	3-1/2"	0.135"

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

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

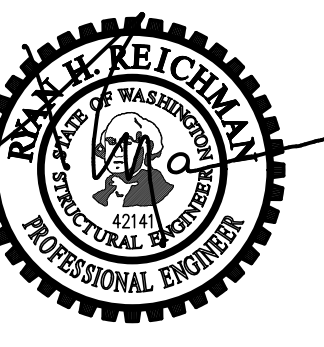
B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER.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

46. NOTCHES AND HOLES IN WOOD FRAMING:

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

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

C. NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE



DRAWN: KMB
DESIGN: RDH/JWJ
CHECKED: RDH
APPROVED: RHR

REVISIONS:

NO.	DESCRIPTION

DPO:

PROJECT TITLE:
**Ogden Point
Residence - Lot C**
3675 W Mercer Way
Mercer Island, WA 98040

ARCHITECT:
Demetriou Architects
5555 Lakeview Drive, Suite 200
Kirkland, WA 98033
PH 425-827-170

ISSUE:
Permit

SHEET TITLE:
**Lot C
Pool Deck Framing &
Foundation Plans**
SCALE: 1/4" = 1'-0" U.N.O.
DATE: January 23, 2018
PROJECT NO: 00641-2017-01
SHEET NO:

S2.1
NO. OF SHEETS:

Plan Notes

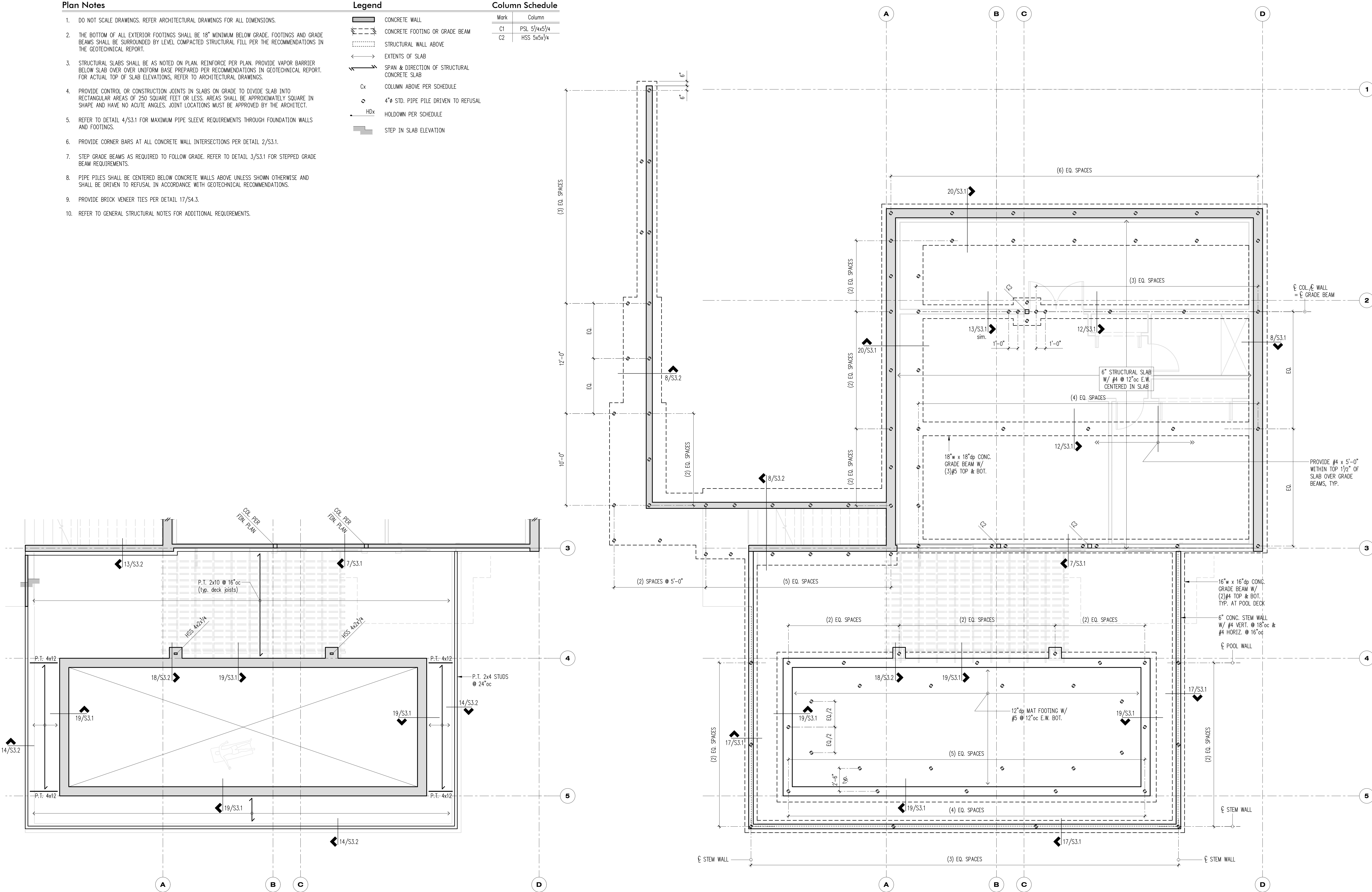
- DO NOT SCALE DRAWINGS. REFER ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW GRADE. FOOTINGS AND GRADE BEAMS SHALL BE SURROUNDED BY LEVEL COMPACTED STRUCTURAL FILL PER THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
- STRUCTURAL SLABS SHALL BE AS NOTED ON PLAN. REINFORCE PER PLAN. PROVIDE VAPOR BARRIER BELOW SLAB OVER UNIFORM BASE PREPARED PER RECOMMENDATIONS IN GEOTECHNICAL REPORT. FOR ACTUAL TOP OF SLAB ELEVATIONS, REFER TO ARCHITECTURAL DRAWINGS.
- PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS ON GRADE TO DIVIDE SLAB INTO RECTANGULAR AREAS OF 250 SQUARE FEET OR LESS. AREAS SHALL BE APPROXIMATELY SQUARE IN SHAPE AND HAVE NO ACUTE ANGLES. JOINT LOCATIONS MUST BE APPROVED BY THE ARCHITECT.
- REFER TO DETAIL 4/S3.1 FOR MAXIMUM PIPE SLEEVE REQUIREMENTS THROUGH FOUNDATION WALLS AND FOOTINGS.
- PROVIDE CORNER BARS AT ALL CONCRETE WALL INTERSECTIONS PER DETAIL 2/S3.1.
- STEP GRADE BEAMS AS REQUIRED TO FOLLOW GRADE. REFER TO DETAIL 3/S3.1 FOR STEPPED GRADE BEAM REQUIREMENTS.
- PIPE PILES SHALL BE CENTERED BELOW CONCRETE WALLS ABOVE UNLESS SHOWN OTHERWISE AND SHALL BE DRIVEN TO REFUSAL IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.
- PROVIDE BRICK VENEER TIES PER DETAIL 17/S4.3.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- CONCRETE WALL
- CONCRETE FOOTING OR GRADE BEAM
- STRUCTURAL WALL ABOVE
- EXTENTS OF SLAB
- SPAN & DIRECTION OF STRUCTURAL CONCRETE SLAB
- Cx COLUMN ABOVE PER SCHEDULE
- 4" STD. PIPE PILE DRIVEN TO REFUSAL
- HDx HOLDDOWN PER SCHEDULE
- STEP IN SLAB ELEVATION

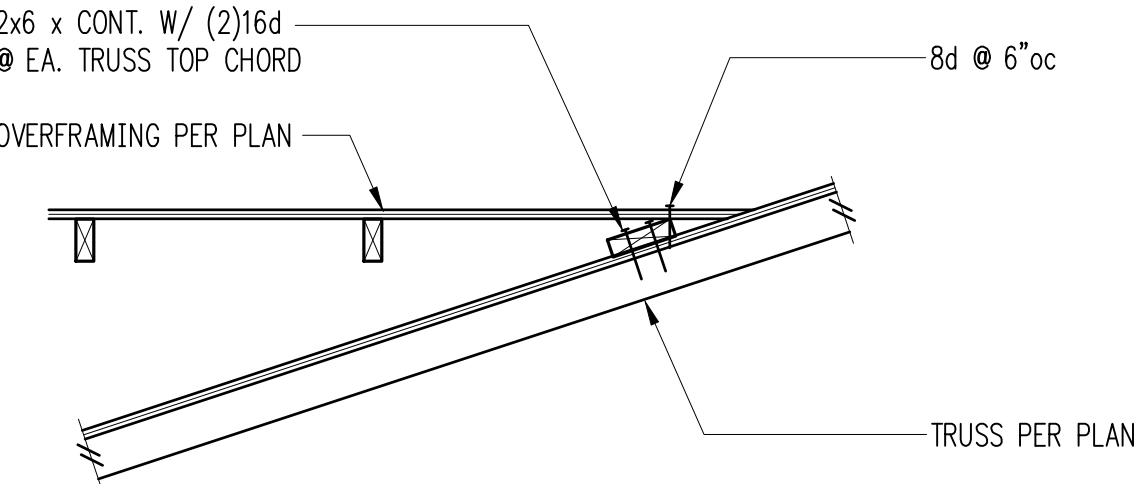
Column Schedule

Mark	Column
C1	PSL 5/4x5/4
C2	HSS 5.5x5/4

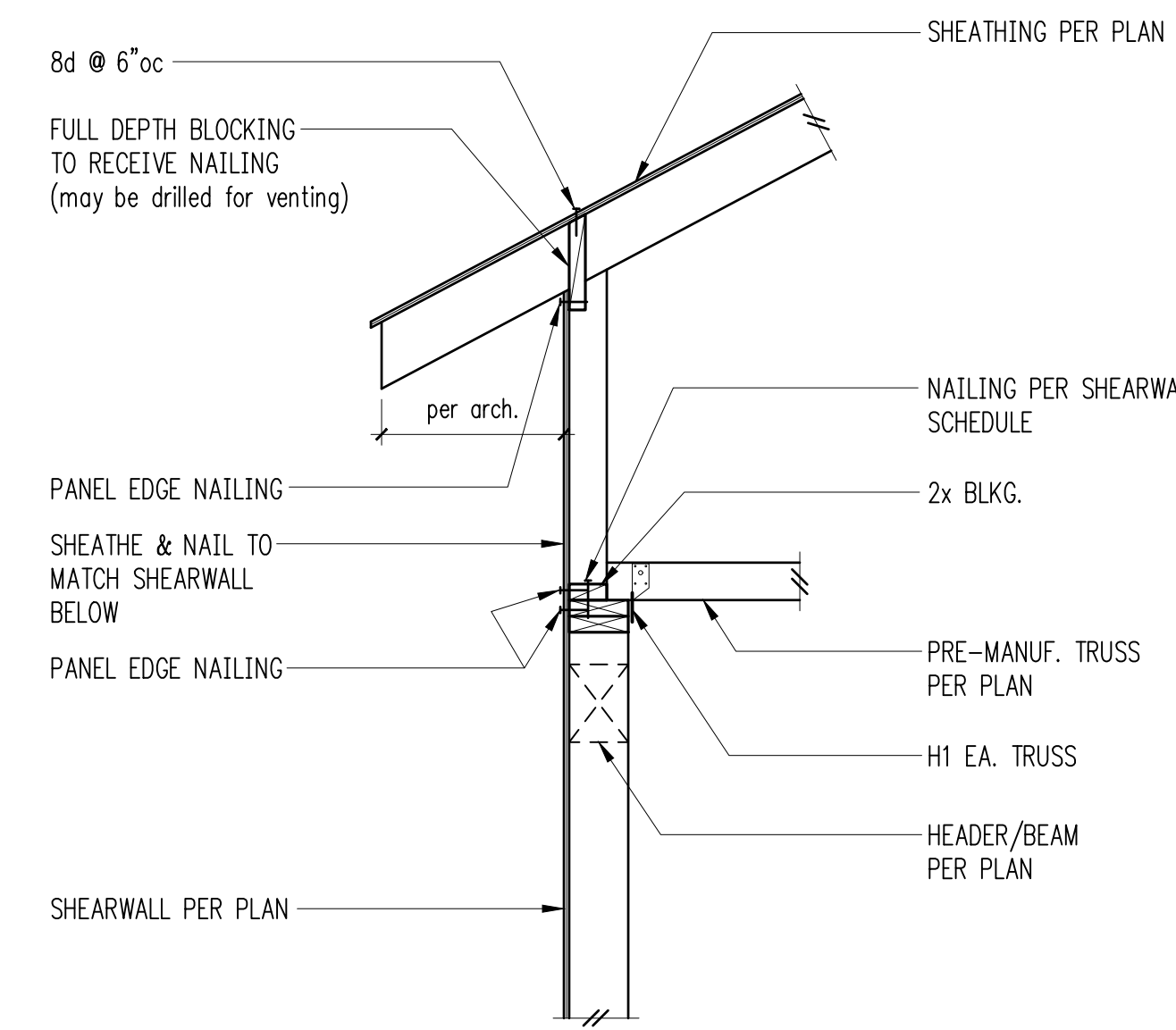


Lot C Pool Deck Framing Plan
Scale: 1/4" = 1'-0"

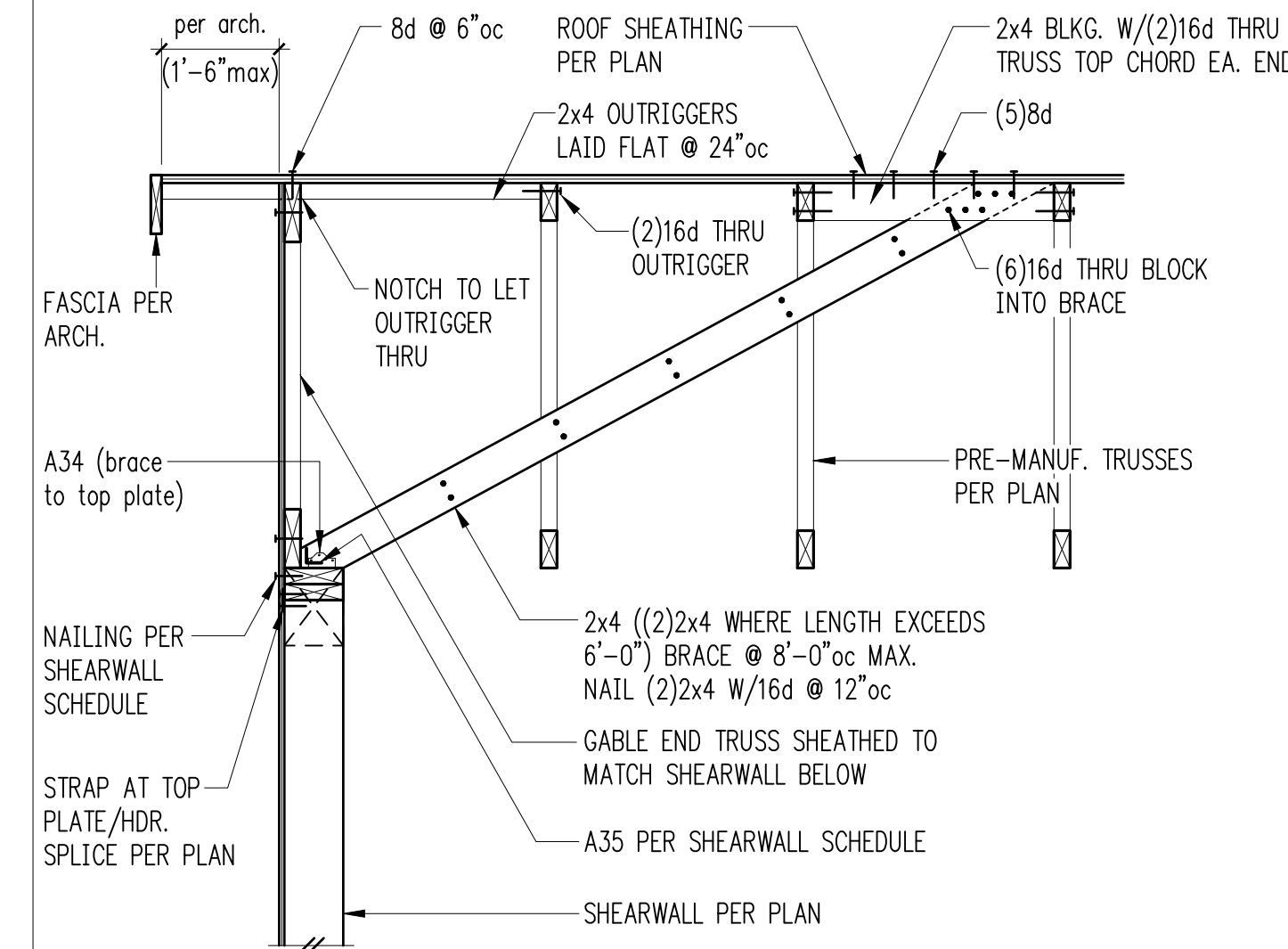
Lot C Foundation Plan
Scale: 1/4" = 1'-0"



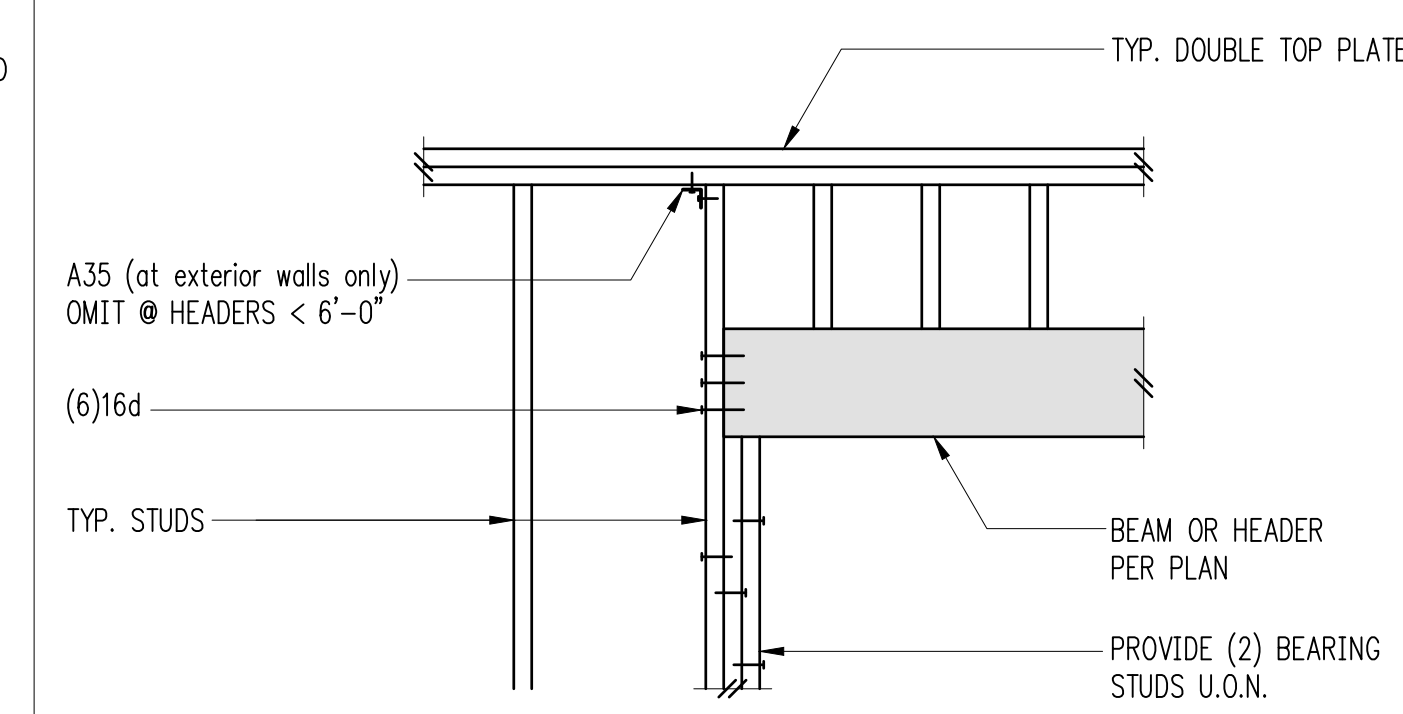
Overframing Connection 1



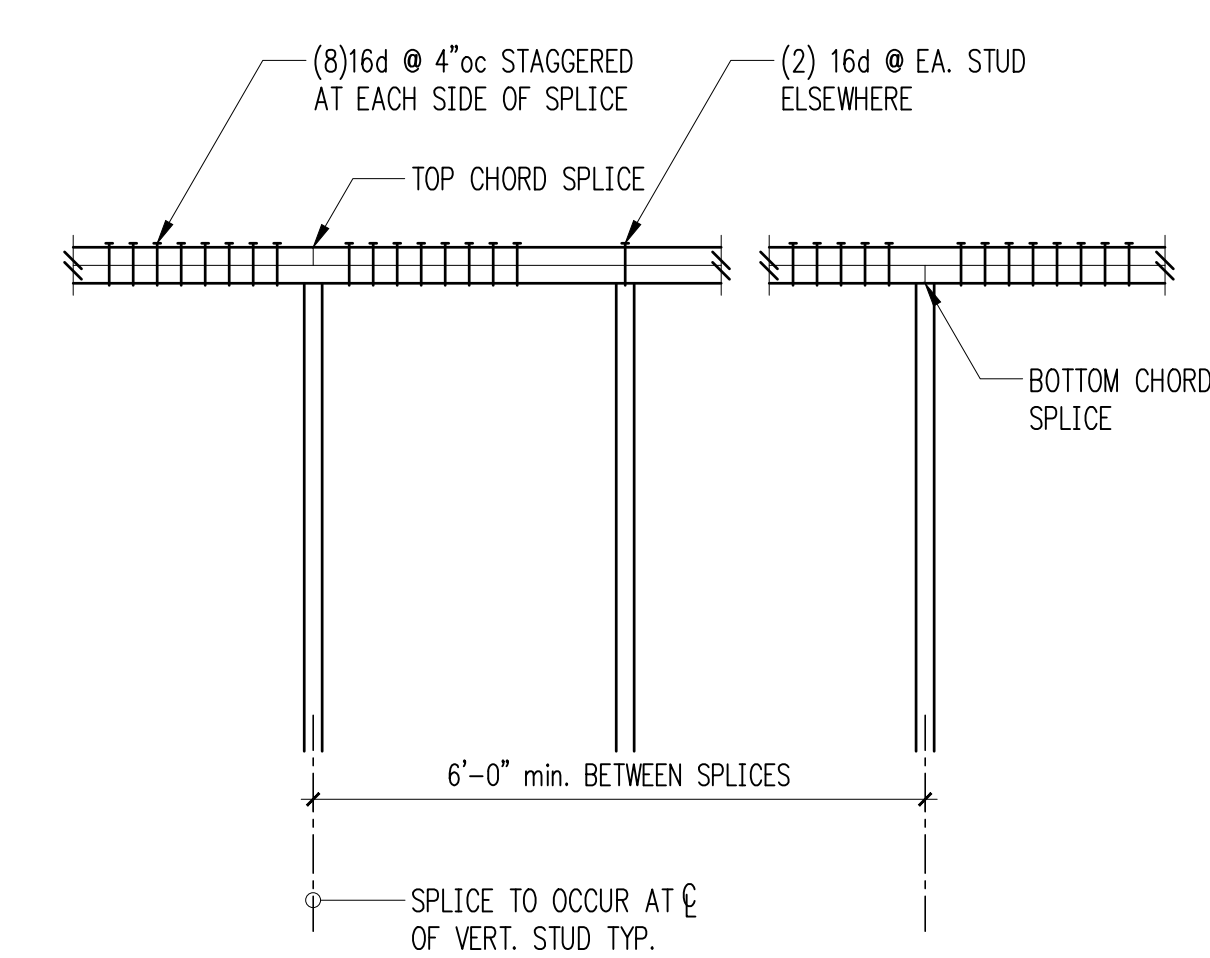
Raised Heel Exterior Bearing Wall 2



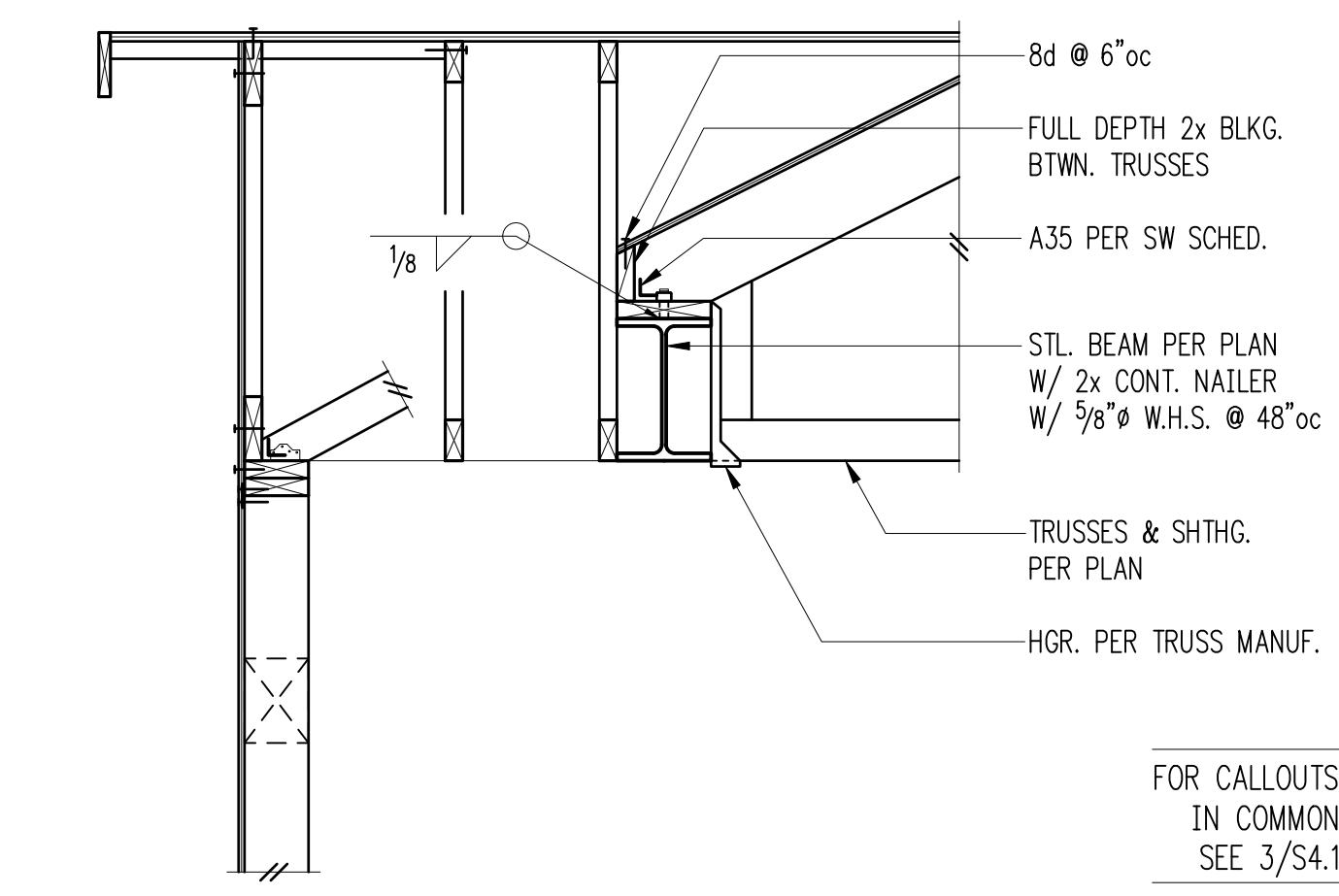
Exterior Non-Bearing Wall 3



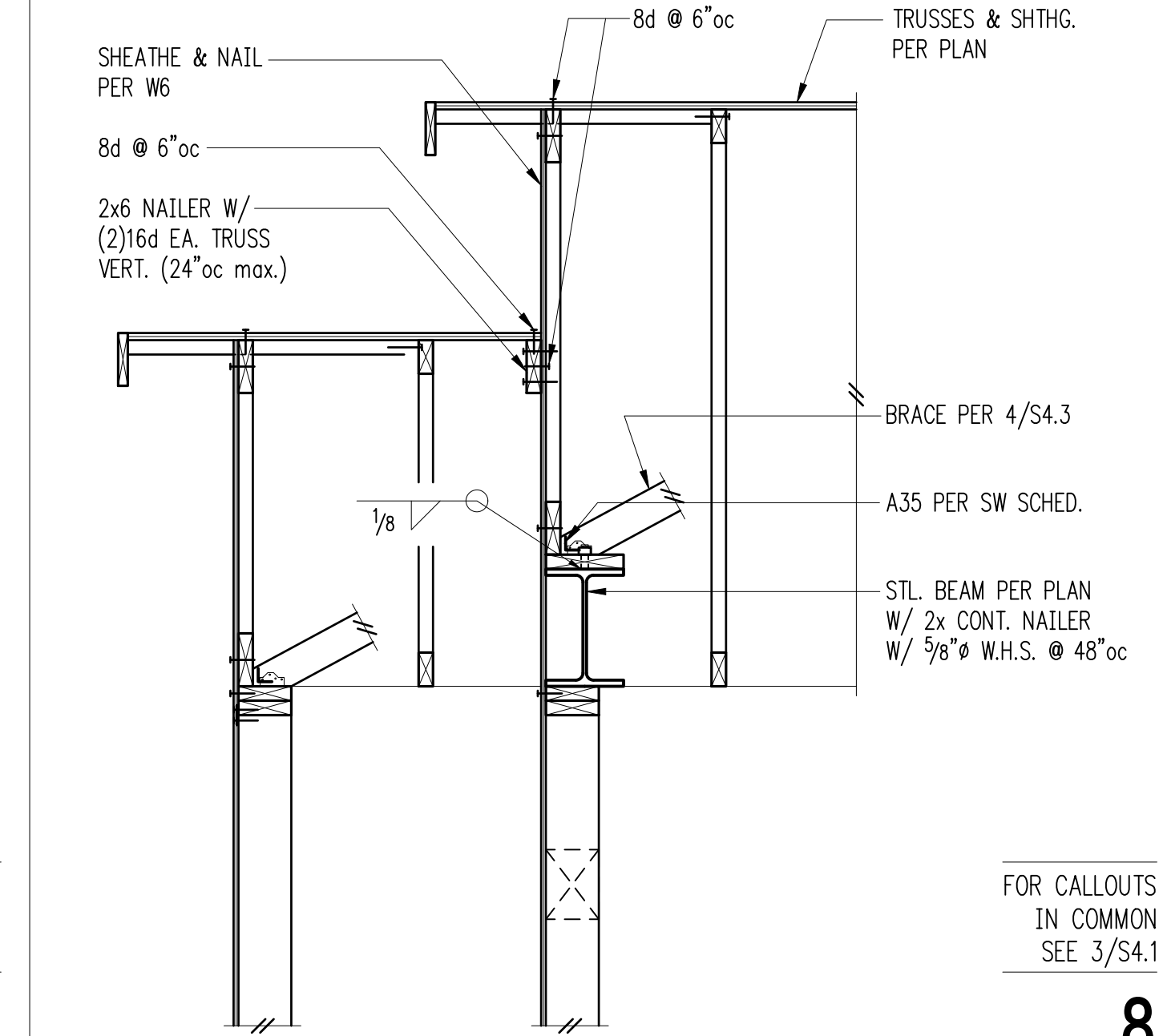
Typical Header Support W/2 Bearing Studs 4



Typical Top Plate Splice 5

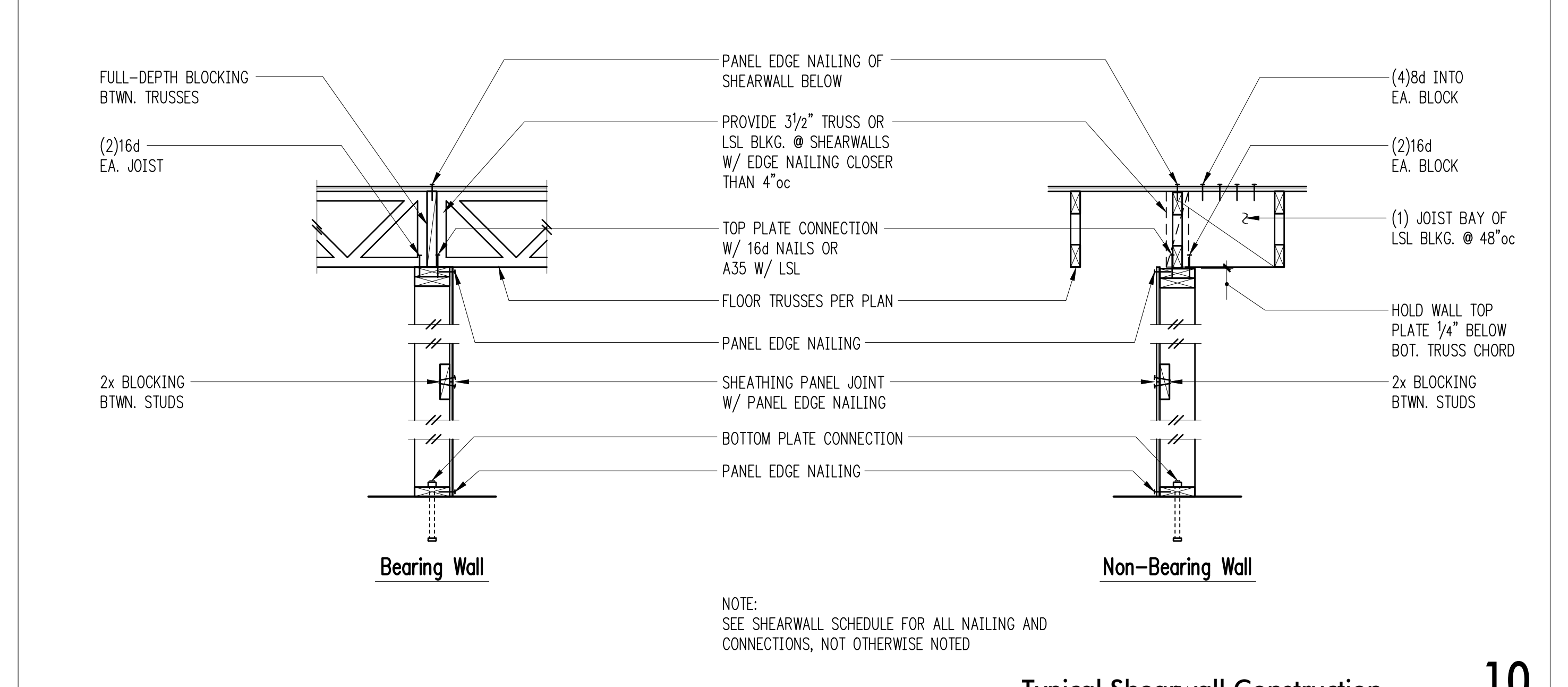


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FOR CALLOUTS IN COMMON SEE 3/54.1

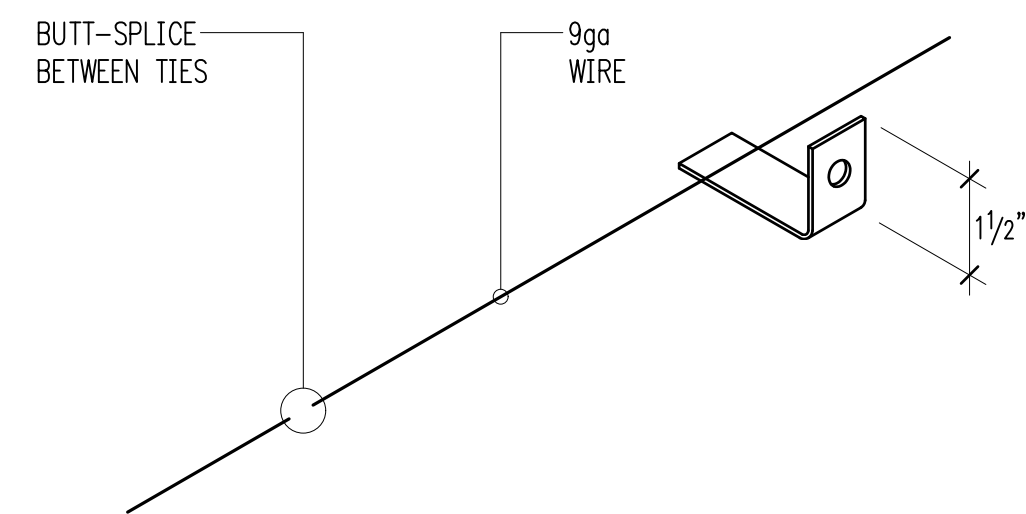
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FOR CALLOUTS IN COMMON SEE 3/54.1

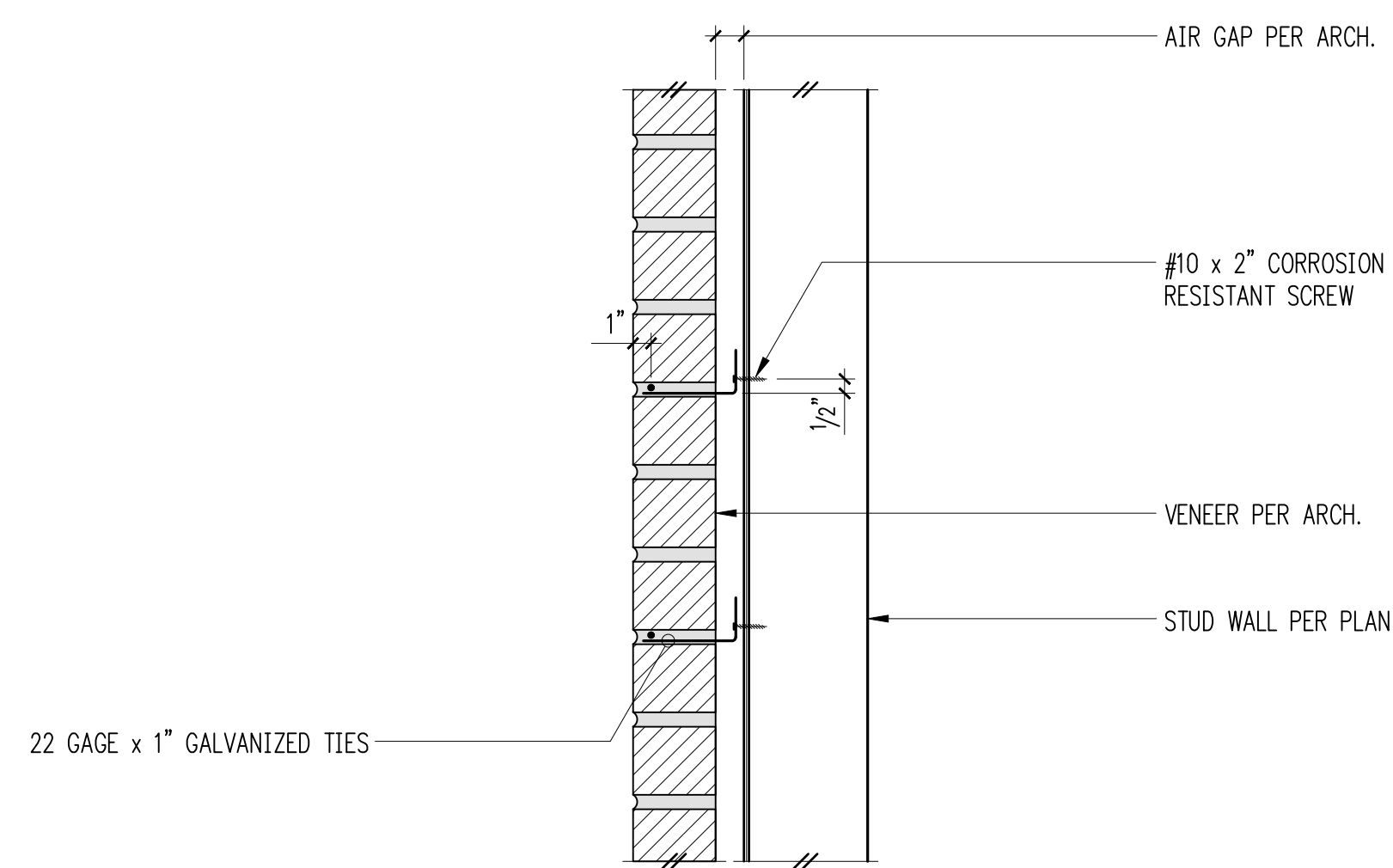
8

Typical Shearwall Construction 10

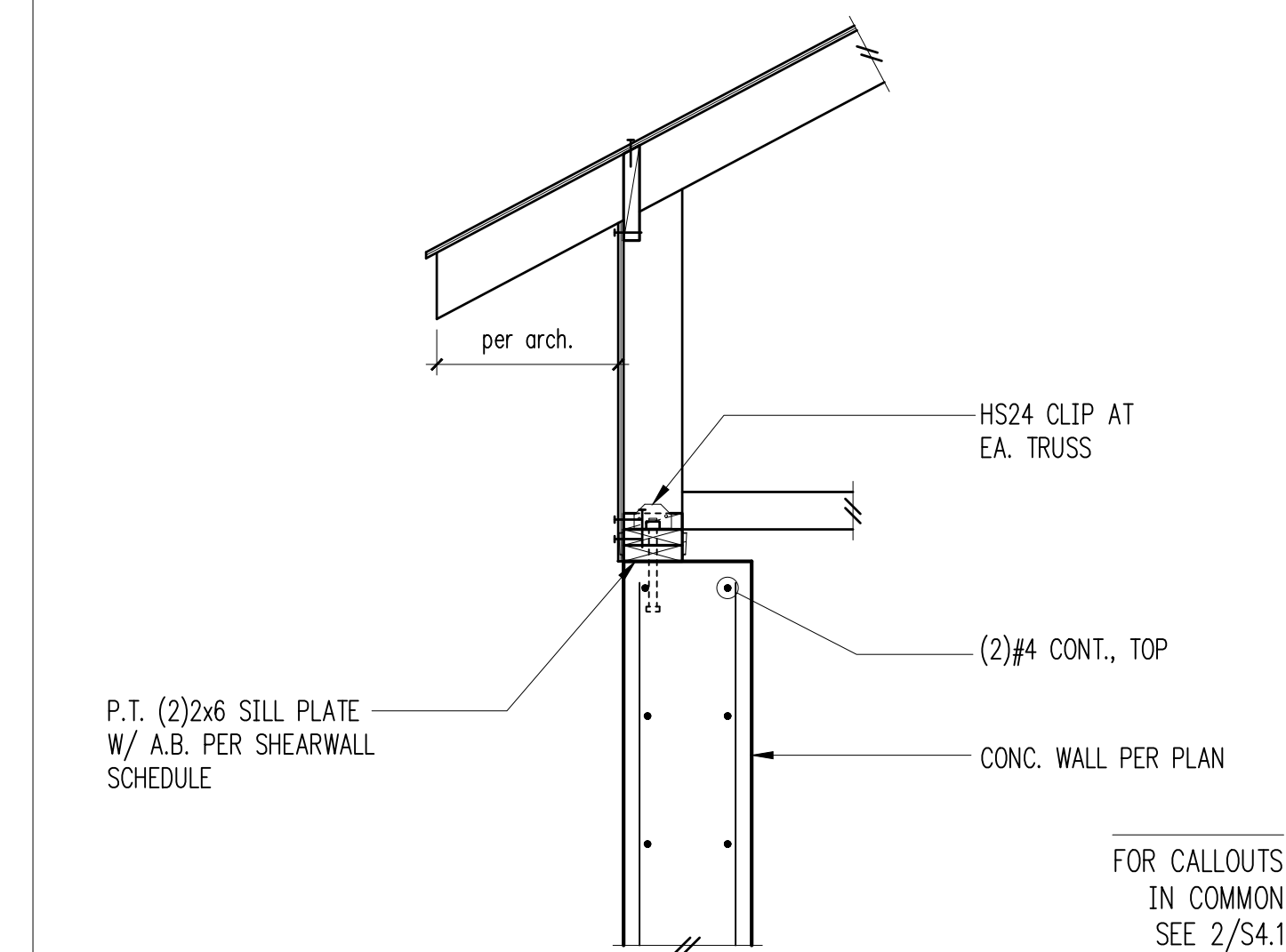


NOTES:

- VENEER TIES SHALL BE SPACED SO AS TO SUPPORT NOT MORE THAN TWO SQUARE FEET OF WALL AREA AND SHALL NOT BE SPACED MORE THAN 32"oc HORIZONTALLY AND 18"oc VERTICALLY

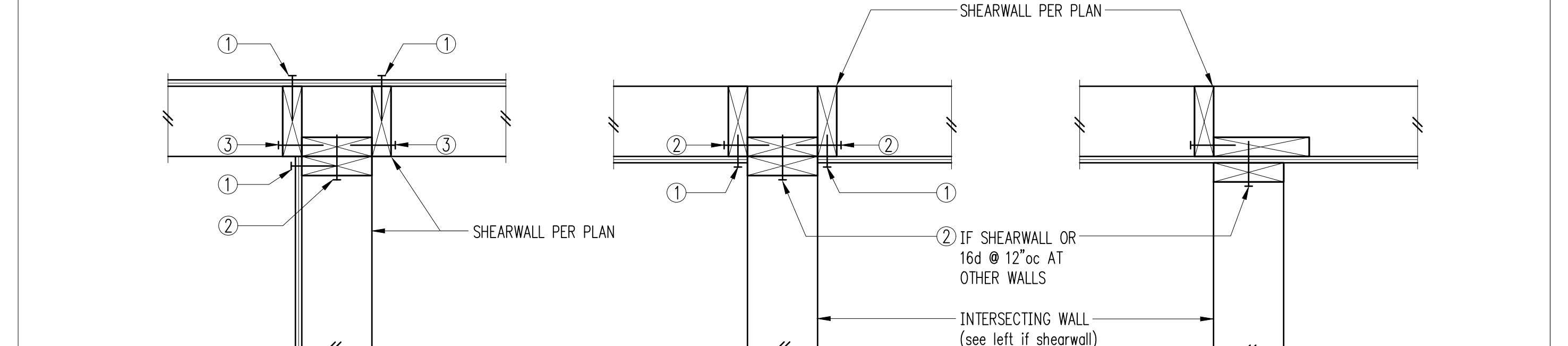


Brick Veneer Ties 12



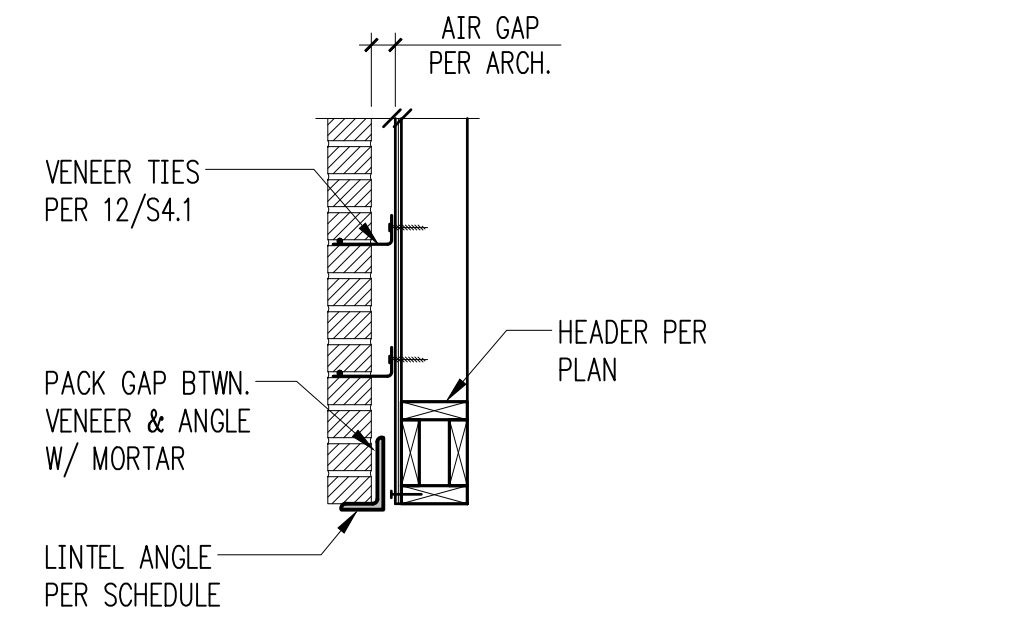
FOR CALLOUTS IN COMMON SEE 2/54.1

13



- PLYFORM PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- BASE PLATE NAILING PER SHEARWALL SCHEDULE
- 16d @ 8"oc

Typical Shearwall Intersections 15

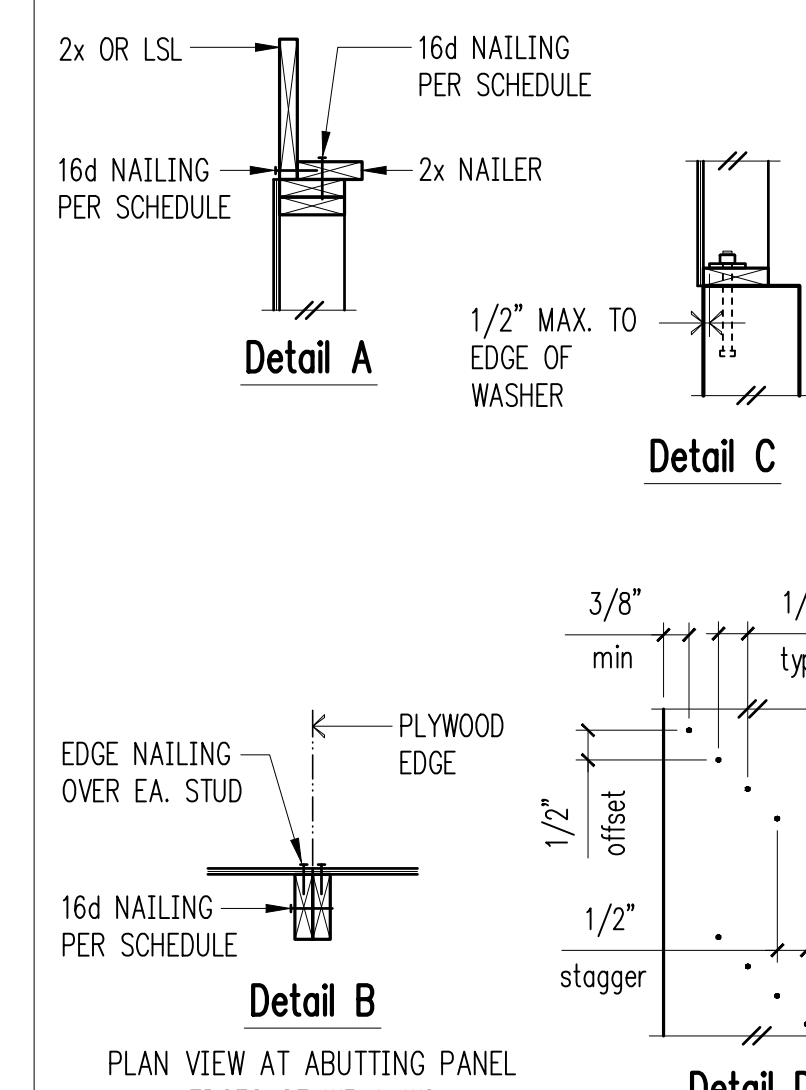


MARK	SIZE	MIN. BEARING REQ. AT END
SL1	L4x3 7/8x 1/4 (LLV)	6"
SL2	L6x3 7/8x 3/8 (LLV)	8"

UNLESS NOTED OTHERWISE ALL LINTELS SHALL BE SL1

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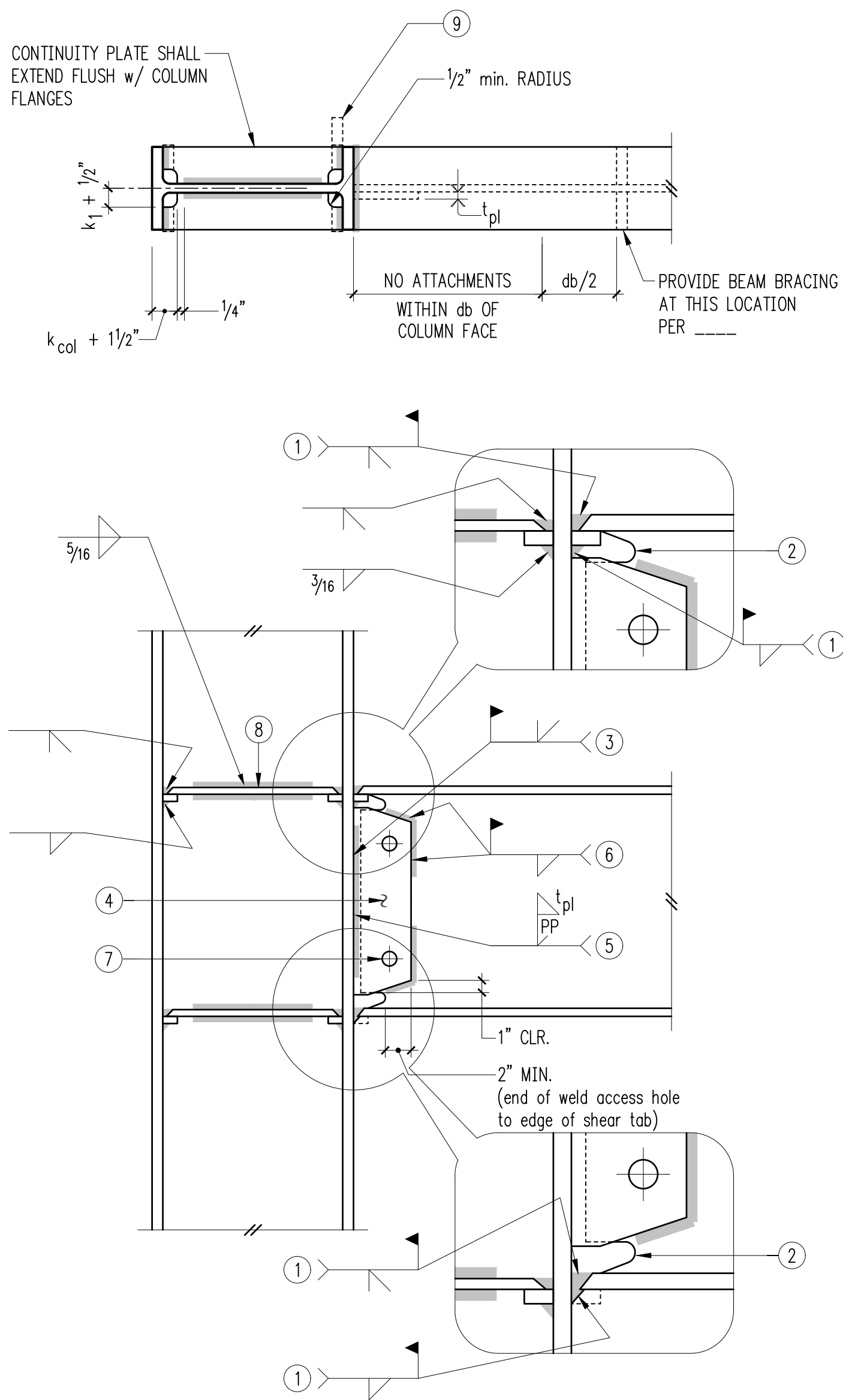
Shearwall Schedule (1)(2)(3)(4)(5)(6)

Mark	Sheathing	Panel Edge Nailing	Top Plate Connection		Base Plate Connection	
			if TJJ	if 2x or LSL	at Wood (3)	at Concrete
W6	15/32" CDX PLYWOOD	8d @ 6"oc	16d @ 6"oc	A35 @ 24"oc (1)	16d @ 6"oc	5/8" A.B. @ 48"oc
W4	15/32" CDX PLYWOOD	8d @ 4"oc	16d @ 4"oc	A35 @ 16"oc (1)	16d @ 4"oc	5/8" A.B. @ 32"oc
W3 (4)	15/32" CDX PLYWOOD	8d @ 3"oc	(2)rows 16d @ 4"oc (2)	A35 @ 12"oc (1)	(2)rows 16d @ 6"oc (1)	5/8" A.B. @ 24"oc
W2 (4)	15/32" CDX PLYWOOD	8d @ 2"oc	(2)rows 16d @ 4"oc (2)	A35 @ 9"oc (1)	(2)rows 16d @ 4"oc (2)	5/8" A.B. @ 16"oc
2W3 (4)	15/32" CDX PLYWOOD EA. SIDE	8d @ 3"oc EA. SIDE	n/a	A35 @ 6"oc	(3)rows 16d @ 4"oc (2)	5/8" A.B. @ 16"oc
2W2 (4)	15/32" CDX PLYWOOD EA. SIDE	8d @ 2"oc EA. SIDE	n/a	HGA10 @ 8"oc	(3)rows 16d @ 4"oc (2)	5/8" A.B. @ 12"oc
2W2-10 (4)	15/32" CDX PLYWOOD EA. SIDE	10d @ 2"oc EA. SIDE	n/a	HGA10 @ 6"oc	(4)rows 16d @ 4"oc (2)	5/8" A.B. @ 12"oc

- BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"oc.
- 8d NAILS SHALL BE 0.131" x 2 1/2" (COMMON) - 16d NAILS SHALL BE 0.135" x 3 1/2" (BOX) - 10d NAILS SHALL BE 0.148" x 3" (COMMON).
- EMBED ANCHOR BOLTS AT LEAST 7". EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE OF THE SIDE WITH SHEATHING. SEE DETAIL C.
- 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES.
- 3x FOUNDATION SILL PLATES ARE REQUIRED FOR 2W3 AND 2W2. 3x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES AND PANEL JOINTS SHALL BE OFFSET EACH SIDE OF WALL. STAGGER NAILS AT ADJOINING PANEL EDGES. 3x STUD, MIN. REQUIRED AT END OF SHEARWALL.
- TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SINGLE-SIDED SHEARWALLS. ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING.
- SEE PLANS AND HOLD-DOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
- ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.
- 7/16" O.S.B. MAY BE SUBSTITUTED FOR 15/32" CDX.
- LTP4s W/ 8d COMMON MAY BE SUBSTITUTED FOR A35s AT CONTRACTORS OPTION.
- A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35s AT CONTRACTORS OPTION.
- STAGGER NAILS IN ROW W/ 1/2" MIN. OFFSET.
- MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", STAGGER NAILS 1/2" BETWEEN ROWS, AND MINIMUM RIM OR JOIST 3 1/2" WIDE. SEE DETAIL D.
- LVL RIMS PERMITTED AT W6 WALL ONLY.

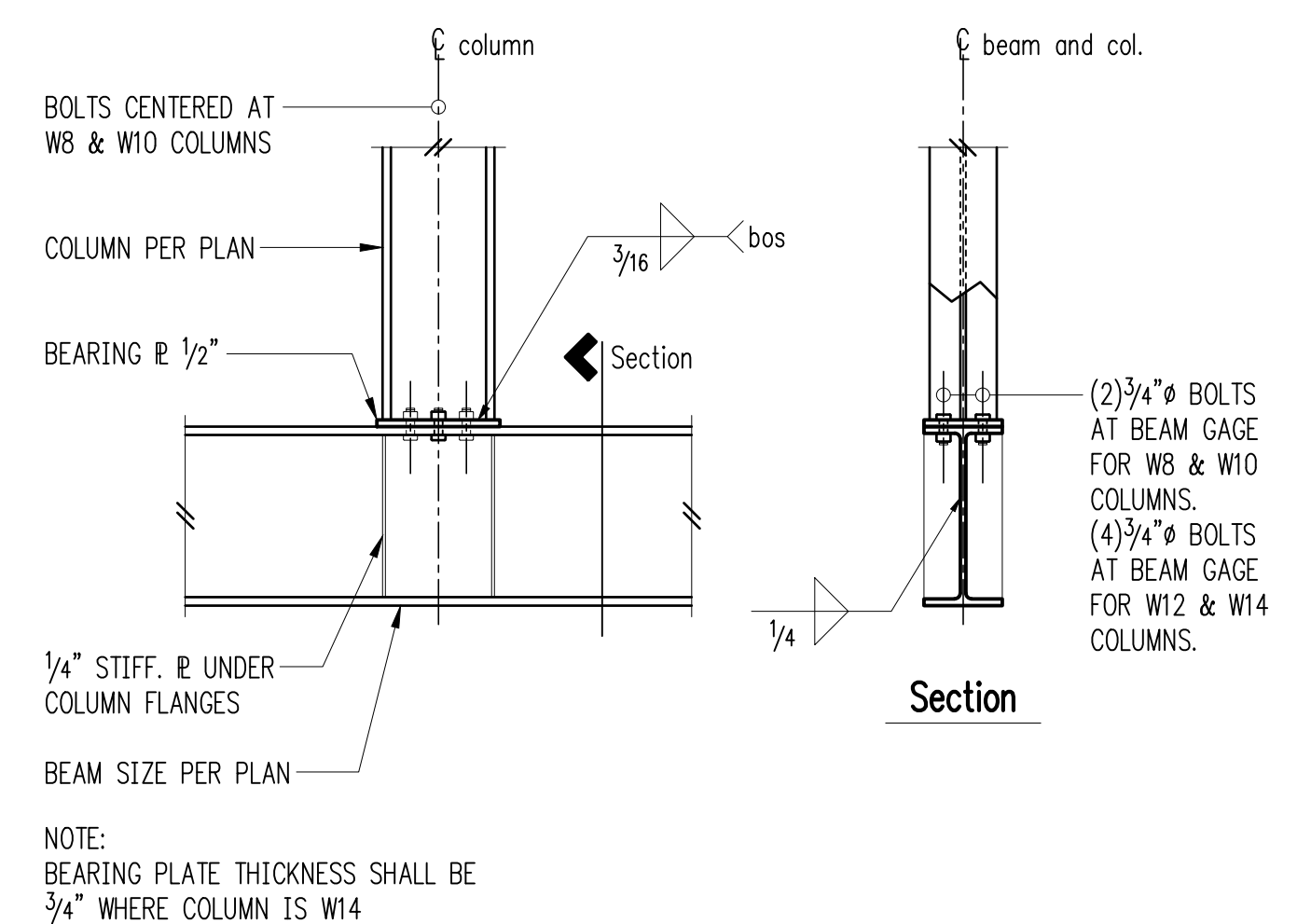
Shearwall Schedule - (Sheathed One & Two Sides) 20

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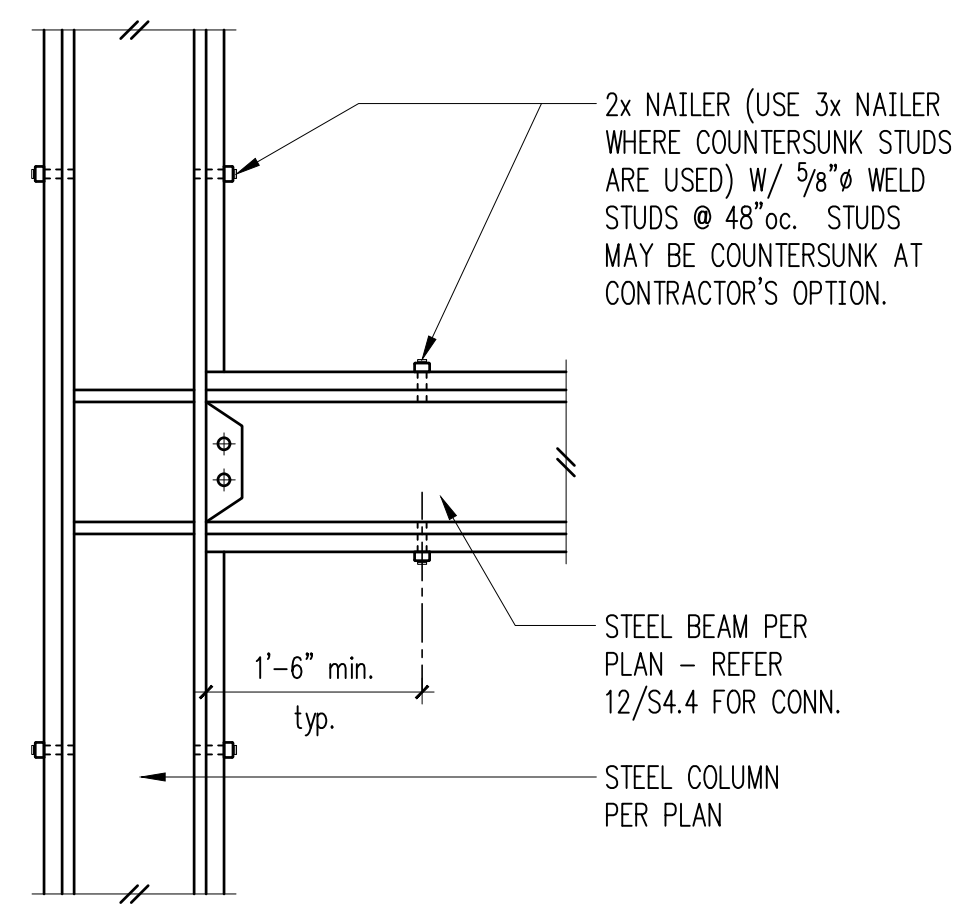


- NOTES:
- C/P GROOVE WELD AT TOP AND BOTTOM FLANGES. AT BOTTOM FLANGE REMOVE WELD BACKING, BACKGOUGE, GRIND SMOOTH AND ADD 3/16" MINIMUM FILLET WELD. AT TOP FLANGE, STEEL WELD BACKING MAY BE LEFT IN PLACE. ADD 3/16" MIN. FILLET WELD BELOW BACKER BAR. BACKING SHALL NOT BE WELDED (INCLUDING TACK WELDING) TO THE UNDERSIDE OF THE BEAM FLANGE.
 - WELD ACCESS HOLE, SEE DETAIL 12/S4.2.
 - C/P GROOVE WELD FULL LENGTH OF BEAM WEB BETWEEN WELD ACCESS HOLES. WELD TABS ARE NOT REQUIRED.
 - SHEAR TAB: THICKNESS (tp) ≥ BEAM WEB THICKNESS. SHEAR TAB LENGTH SHALL BE AS TO ALLOW 1/4" MIN., 1/2" MAX. OVERLAP WITH THE WELD ACCESS HOLE AT TOP AND BOTTOM, AND THE WIDTH SHALL EXTEND 2" MINIMUM BACK ALONG THE BEAM, BEYOND THE END OF THE WELD ACCESS HOLE.
 - FULL-DEPTH PARTIAL PENETRATION SHEAR TAB TO COLUMN FROM FAR SIDE.
 - FILLET WELD SHEAR TAB TO BEAM WEB. WELD SIZE SHALL BE EQUAL TO THE THICKNESS OF THE SHEAR TAB MINUS 1/16". WELD SHALL EXTEND OVER THE TOP AND BOTTOM ONE-THIRD OF THE SHEAR TAB HEIGHT AND ACROSS THE TOP AND BOTTOM. TERMINATE WELD BETWEEN 1/2" & 1" FROM WELD ACCESS HOLE.
 - (2) 3/4" BOLTS FOR ERECTION. IN STANDARD OR SHORT SLOTTED HOLES.
 - CONTINUITY PLATE THICKNESS ≥ BEAM FLANGE THICKNESS. PLATE SHALL BE 50ksi STEEL.
 - REMOVE WELD TABS TO 1/4" MAXIMUM FROM EDGE OF CONTINUITY PLATE. GRIND END OF WELD SMOOTH (500 μ-in), NOT FLUSH. DO NOT GOUGE COLUMN FLANGE.

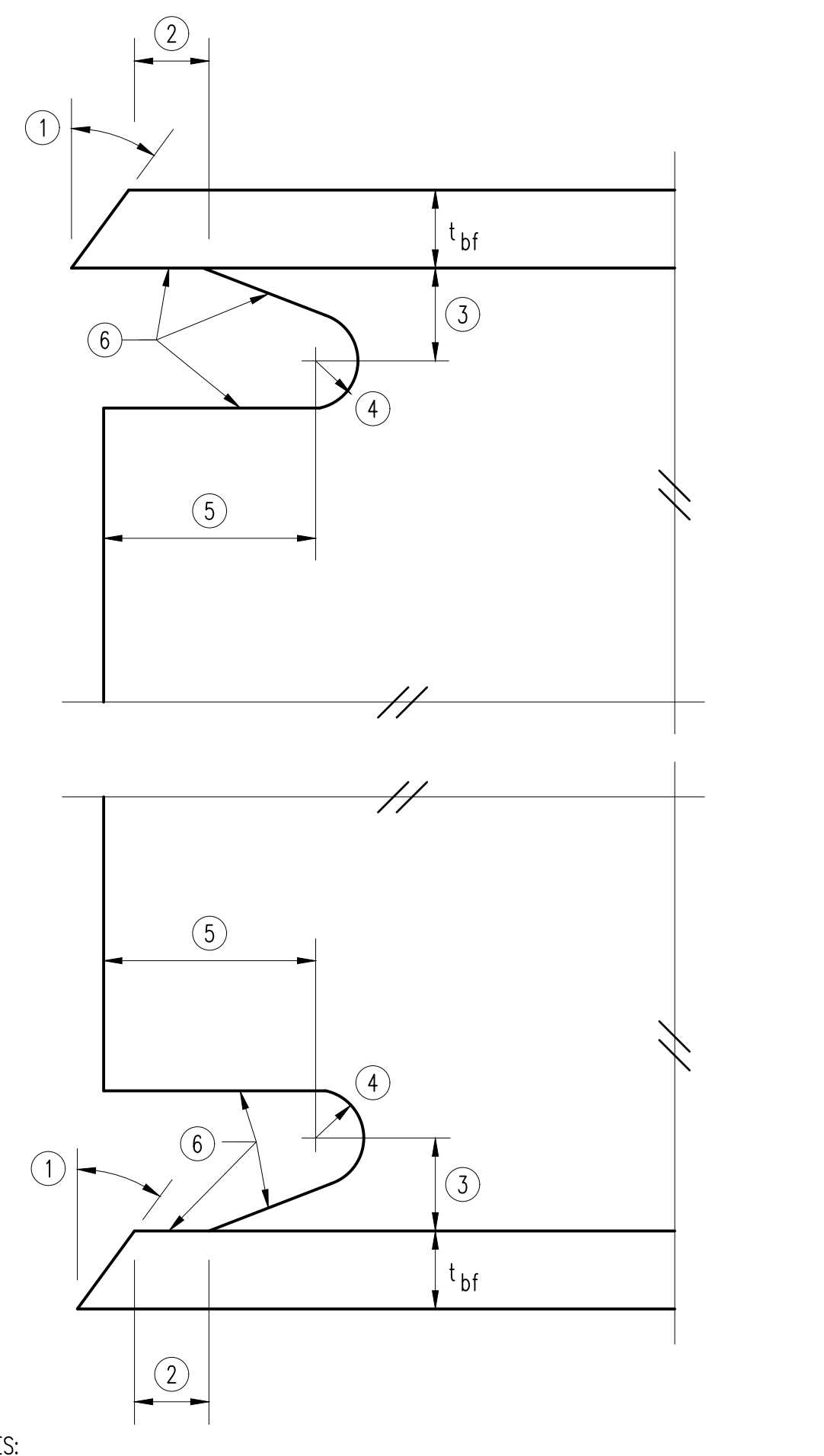
Typical Moment Connection - WUFW 11



Beam Supporting WF Column 16

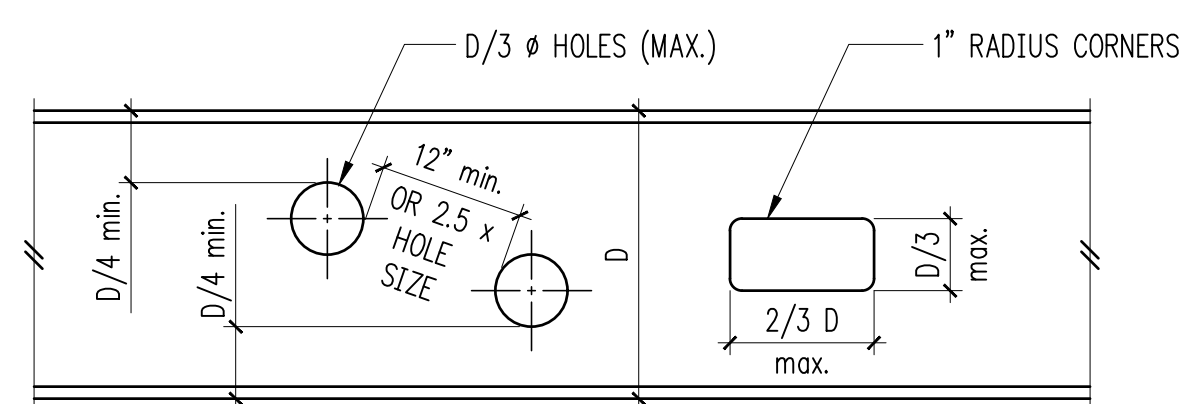


Nailer Plate to Moment Frame 2



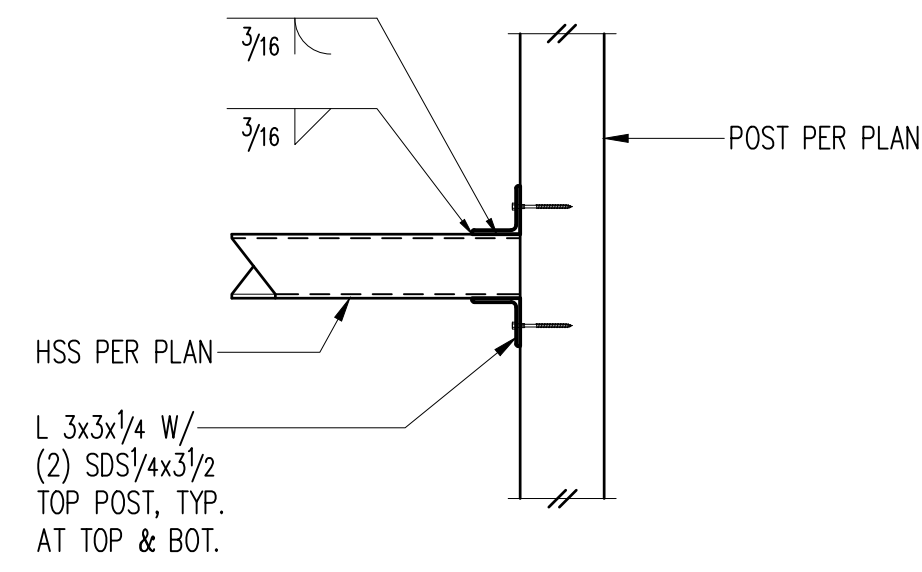
- NOTES:
- BEVEL 30°
 - LARGER OF BEAM FLANGE THICKNESS (t_{bf}) OR 1/2". (PLUS 1/2 t_{bf} OR MINUS 1/4 t_{bf})
 - LARGER OF 3/4 t_{bf} OR 3/4" MAXIMUM t_{bf} PLUS 1/4"
 - 1/2" MINIMUM RADIUS PLUS UNLIMITED
 - 3 t_{bf}. (± 1/2")
 - SURFACES SHALL BE FREE OF NOTCHES AND SHALL HAVE A SURFACE ROUGHNESS OF NOT MORE THAN 500 μ-in.
 - TOLERANCES SHALL NOT ACCUMULATE TO THE EXTENT THAT THE ANGLE OF THE ACCESS HOLE CUT TO THE FLANGE SURFACE EXCEEDS 25°

Moment Frame Access Hole 12

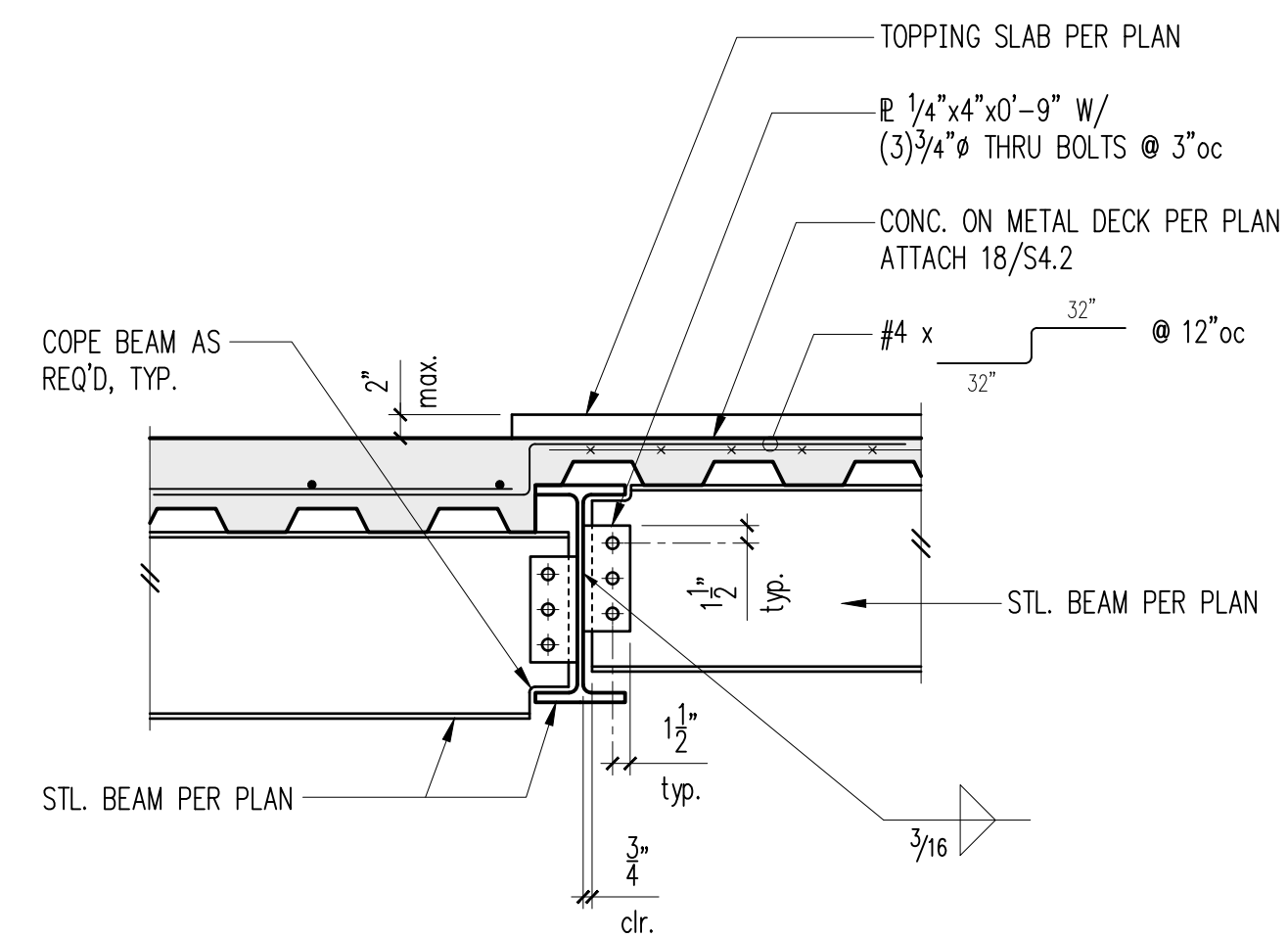


- CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF ALL BEAM PENETRATIONS WITH MECHANICAL DRAWINGS. ALL PENETRATIONS LARGER THAN 2" SHALL BE SHOWN ON SHOP DRAWINGS OR SKETCHES AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. FIELD CUTTING NOT PERMITTED WITHOUT APPROVAL.
- OPENINGS MAY OCCUR IN MIDDLE HALF OF BEAM LENGTH ONLY.
- NO CUTTING MAY OCCUR IN TOP OR BOTTOM QUARTER OF BEAM DEPTH.
- ADJACENT OPENINGS MUST BE SPACED AT THE LESSER OF, 12" OR 2.5 x LARGER OPENING SIZE, EDGE TO EDGE.
- MAXIMUM SIZES OF OPENINGS SHALL BE D/3 Ø OR D/3 x 2D/3 AS SHOWN.
- NO OPENINGS SHALL OCCUR WITHIN 12" OF AN ADJACENT BEAM CONNECTION.
- REQUIRED OPENINGS NOT MEETING ABOVE CRITERIA SHALL BE SUBMITTED TO ENGINEER FOR REINFORCING DESIGN.

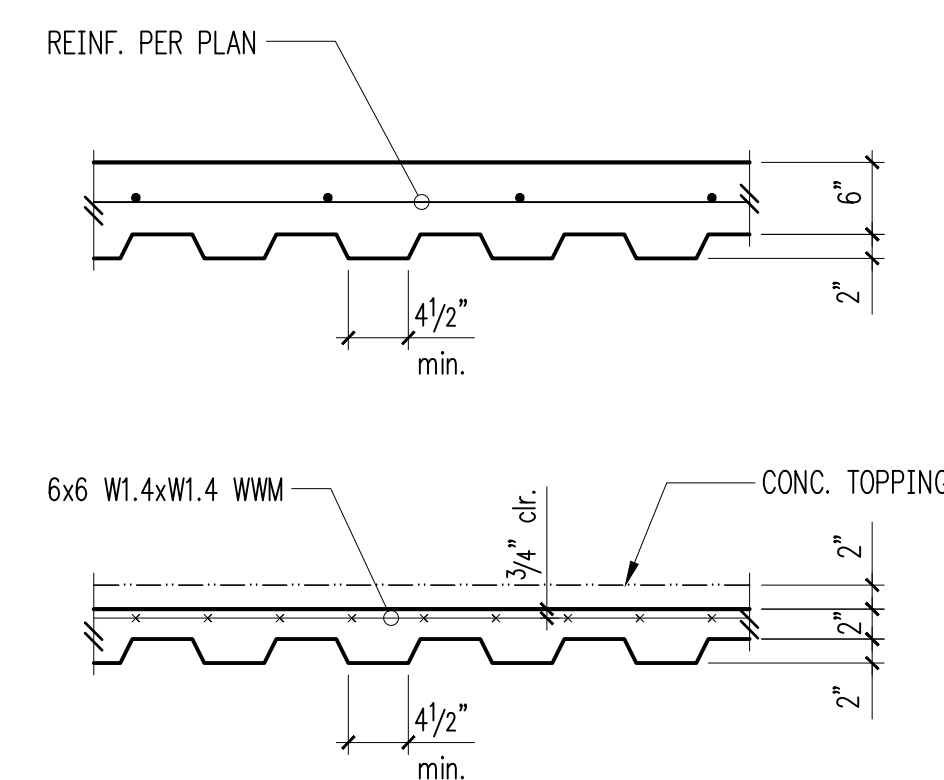
Steel Beam Penetrations 17



1" = 1'-0" 3



8



Verco W2 Formlock, G60 Coating w/Following Min. Properties

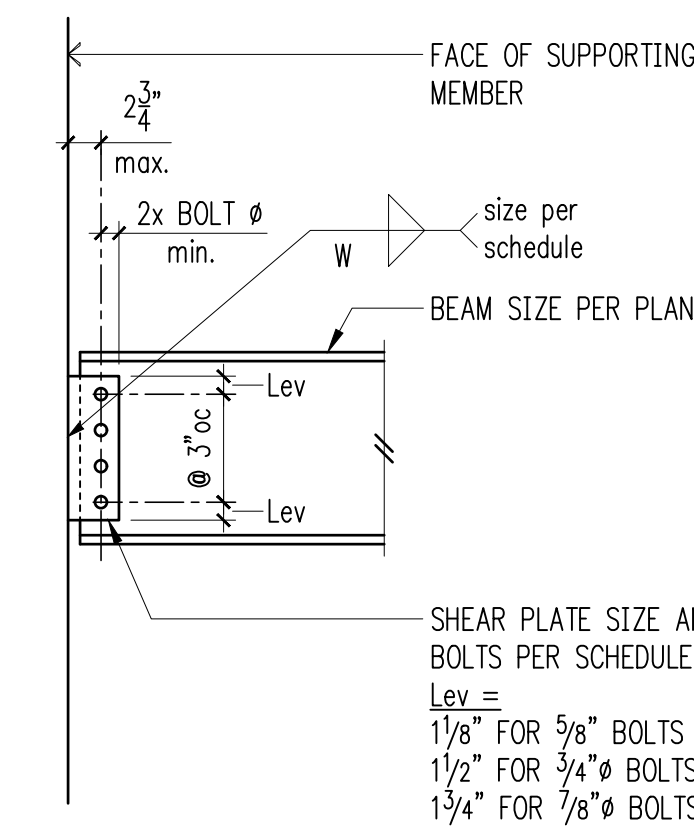
20 GA.

PANEL WIDTH = 36"
I = .422 in⁴
S = .323 in³
F_y = 50 ksi

SHEAR CAPACITY REQ'D = 2800 #/ft

- USE 20 GA. DECK AS NOTED TO THE LEFT. DECK SHALL HAVE 100 PSF SUPERIMPOSED LOAD CAPACITY. SPAN CONDITIONS EXCEEDING 9'-6" EA. SPAN. MAXIMUM SPAN OF 20 GA. DECK IS 9'-0" FOR SINGLE, 10'-0" DOUBLE SPAN CONDITIONS AND 10'-6" FOR TRIPLE SPAN CONDITIONS.
- NOTE 1 ASSUMES SHORING WILL NOT BE USED.
- PROVIDE (4)1/2" DIAMETER EFFECTIVE PUDDLE WELDS PER SHEET TO ALL SUPPORTS PERPENDICULAR TO DECK FLUTES.
- PROVIDE 1/2" DIAMETER PUDDLE WELDS AT 12"oc WHERE DECK ORIENTATION CHANGES AND OTHER SUPPORTS PARALLEL TO DECK FLUTES.
- CONNECT DECK SEAMS WITH BUTT PUNCHES @ 36"oc.
- DECK TYPE MUST STRICTLY MEET CRITERIA LISTED ABOVE INCLUDING RESEARCH REPORT ALLOWABLE SHEAR AND SUPERIMPOSED LOADS. SUBMIT DECK INFORMATION TO ENGINEER PRIOR TO BEGINNING SHOP DRAWINGS.
- REINFORCE DECK OPENINGS PER 20/S4.2.
- AT CONTRACTOR'S OPTION, .145" Ø DRIVE PINS OR SDI RECOGNIZED #10 SELF DRILLING SCREWS MAY BE SUBSTITUTED AT SUPPORTS AND SIDELAP CONNECTIONS.

2" + 2 1/2" Floor Deck 18



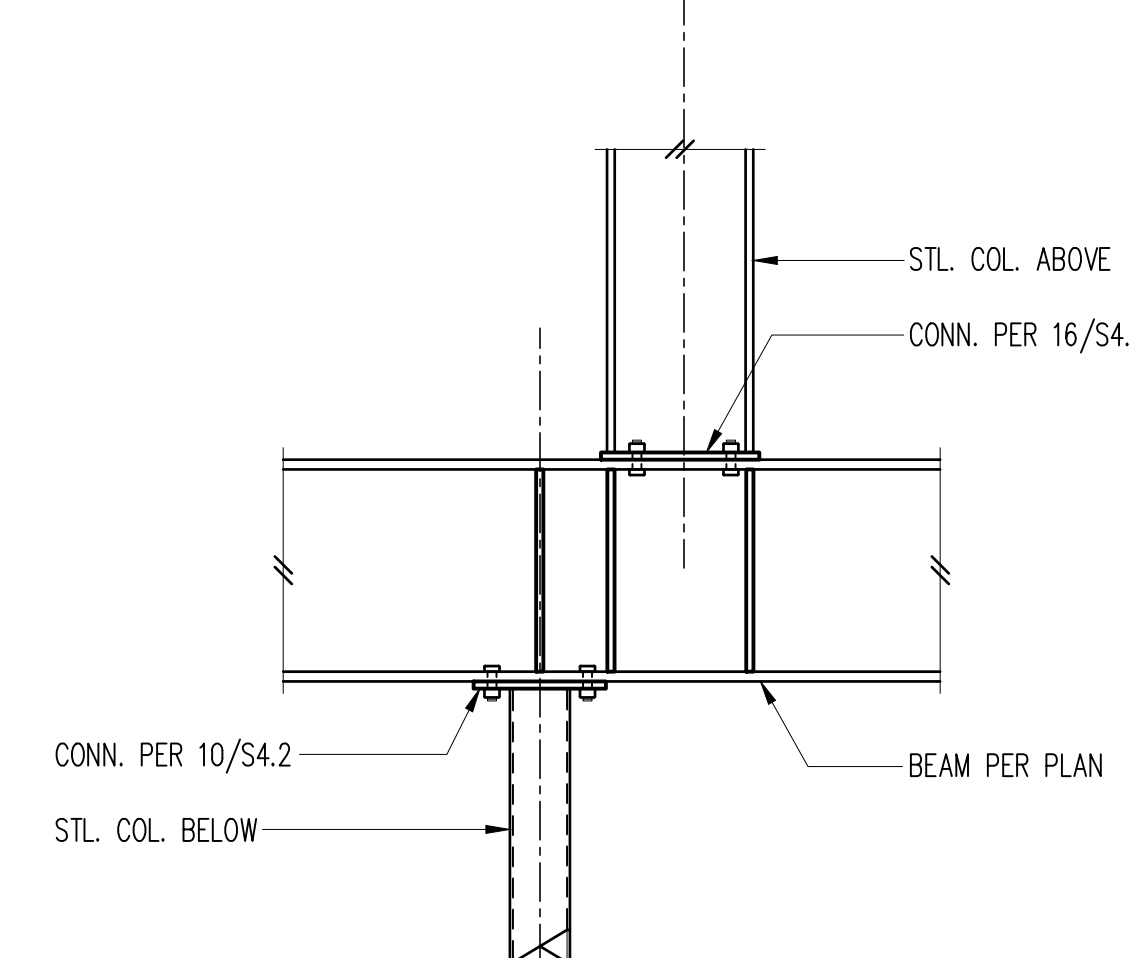
Shear Plate Schedule

Beam Size	No. of Bolts	Bolt Size	Plate Thickness	Weld Size
C6, W6, MC7	2	3/8" Ø @ 2" SPACING	1/4"	3/16"
MC8, MC9, MC10 C7, C8, C9, C10, W8, W10	2	3/8" Ø	1/4"	3/16"
C12, C15, MC12, W12, W14	3	3/4" Ø	1/4"	3/16"
W16	4	3/4" Ø	1/4"	3/16"
W18	4	3/4" Ø	5/16"	1/4"
W21	4	7/8" Ø	3/8"	5/16"
W24	5	7/8" Ø	3/8"	5/16"
W27	6	7/8" Ø	3/8"	5/16"
W30	7	7/8" Ø	3/8"	5/16"

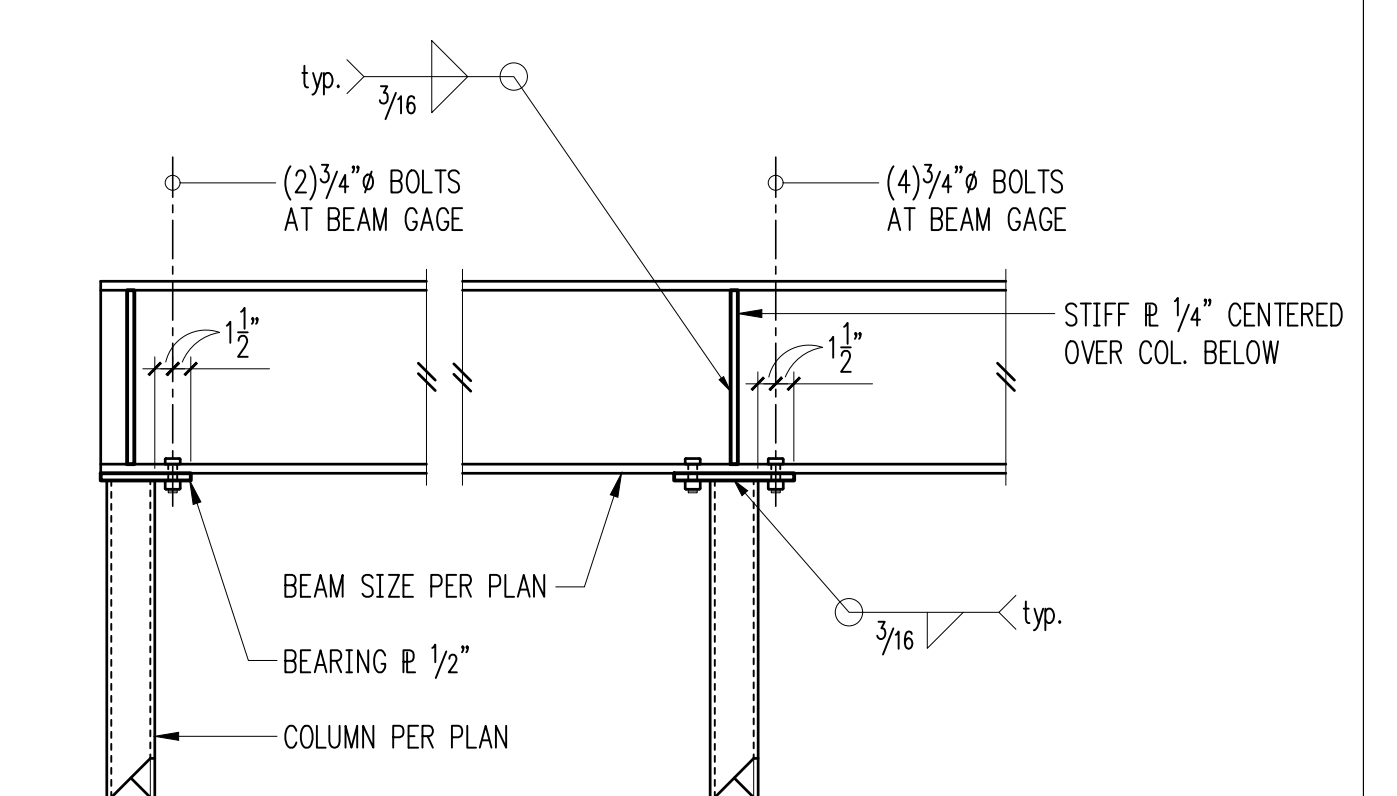
NOTES:

- STANDARD OR SLOTTED HOLES MAY BE USED.
- BOLT TYPE A325M.
- PLATE MATERIAL - A36
- SEE EXTENDED R DETAIL FOR COLUMN WEB CONNECTIONS.

Typical Single Shear Plate Connection and Schedule 5



9

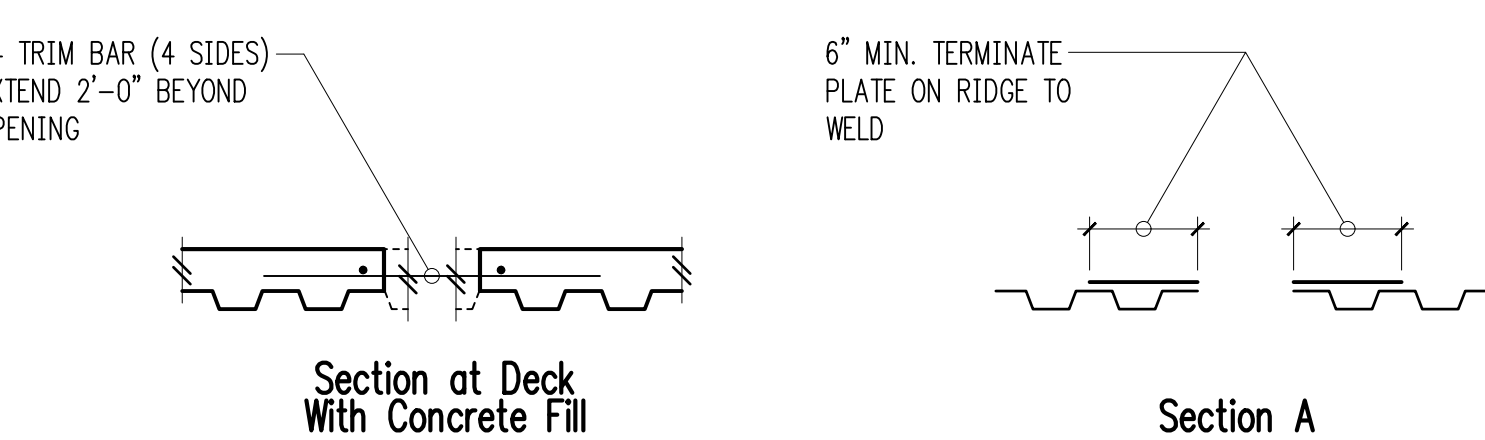


Where Beam Stops Where Beam Continues

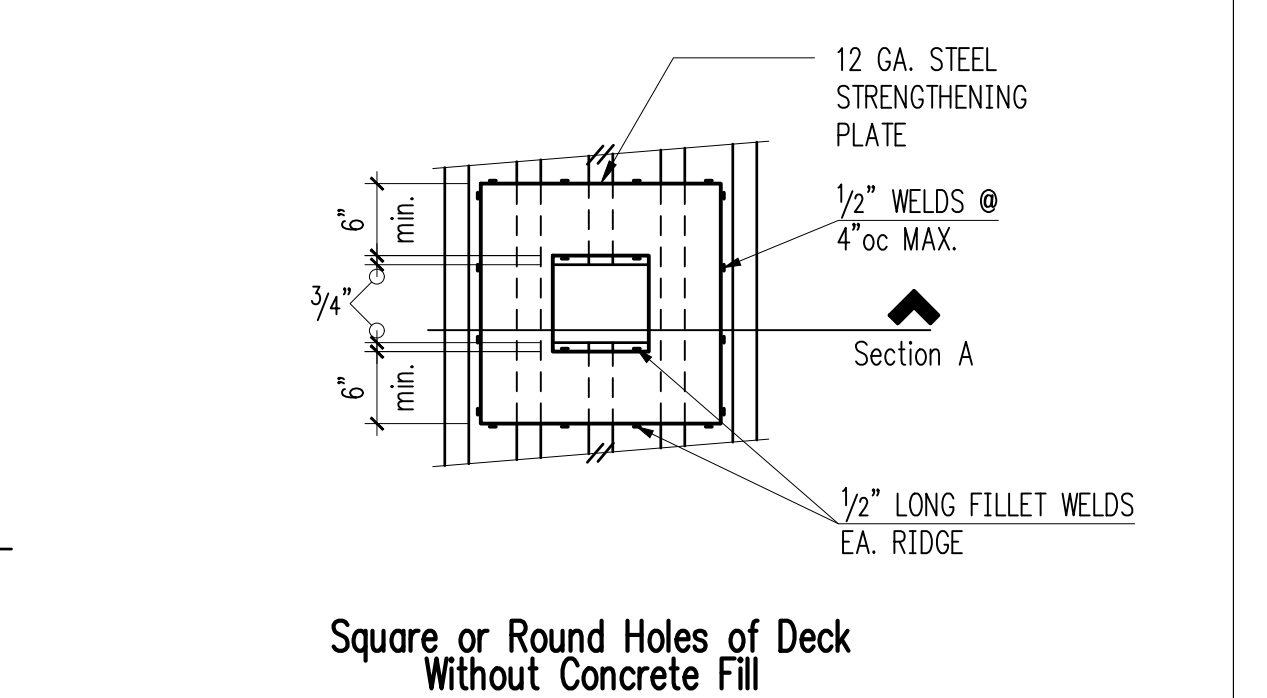
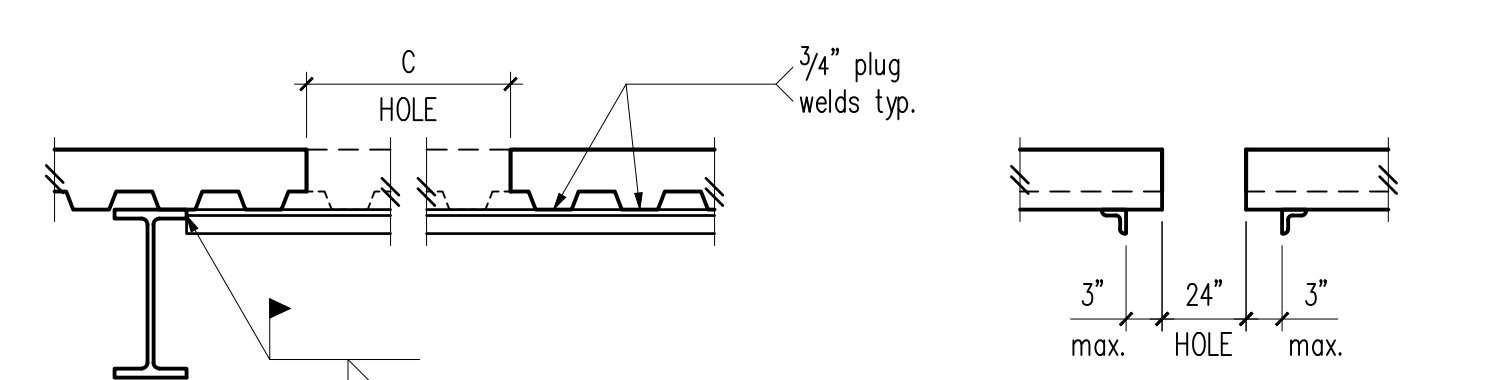
NOTE:
BEARING PLATE THICKNESS SHALL BE 3/4" WHERE DEPTH OF SUPPORTED MEMBER EXCEEDS 24"

Typical Beam Bearing on HSS or Pipe Column 10

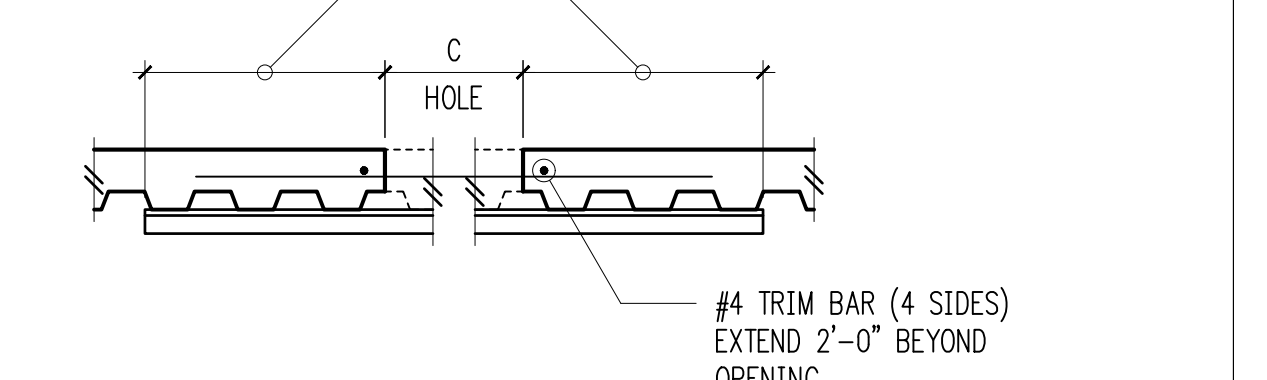
- FOR HOLES 4" DIA. OR LESS OR 4" SQUARE OR LESS: NO STRENGTHENING IS REQUIRED PROVIDED THAT HOLES ARE NOT CLOSER THAN 12"oc
- FOR HOLES GREATER THAN 4" UP TO 8" DIA. OR 8" SQUARE: PROVIDED HOLES ARE NOT CLOSER THAN 3'-0"oc
- FOR HOLES GREATER THAN 8" UP TO 24" DIA. OR 24" SQUARE: PROVIDE L 2x2x1/16 AS SHOWN BELOW:



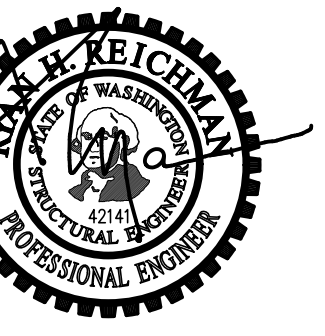
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- REINFORCE DECK OPENINGS PER 20/S4.2.
- AT CONTRACTOR'S OPTION, .145" Ø DRIVE PINS OR SDI RECOGNIZED #10 SELF DRILLING SCREWS MAY BE SUBSTITUTED AT SUPPORTS AND SIDELAP CONNECTIONS.



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Floor Deck Reinforcement at Small Openings 20



DRAWN: KMB
DESIGN: RDH/JWJ
CHECKED: RDH
APPROVED: RHR

REVISIONS:

DPD:

PROJECT TITLE:

Ogden Point
Residence - Lot C
3675 W Mercer Way
Mercer Island, WA 98040

ARCHITECT:
Demetriou Architects
5555 Lakeview Drive, Suite 200
Kirkland, WA 98033
PH 425-827-170

ISSUE:

Permit

SHEET TITLE:
**Framing
Details**

SCALE:

3/4" = 1'-0" U.N.O.

DATE:

January 23, 2018

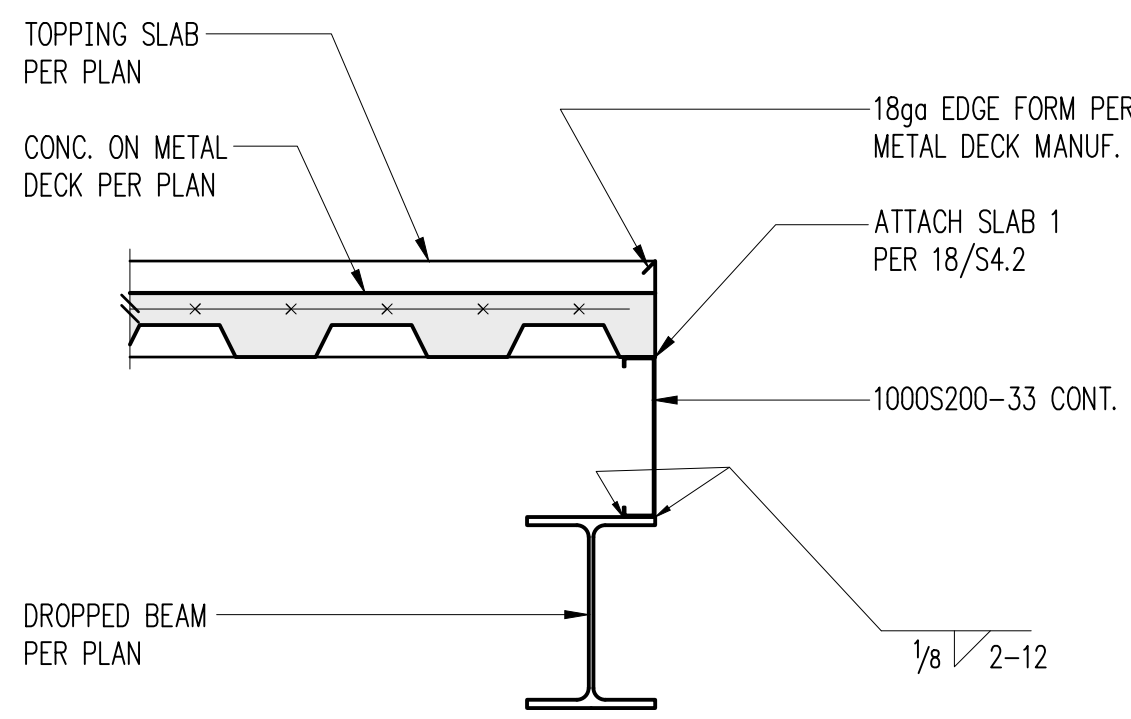
PROJECT NO:

00641-2017-01

SHEET NO:

S4.3

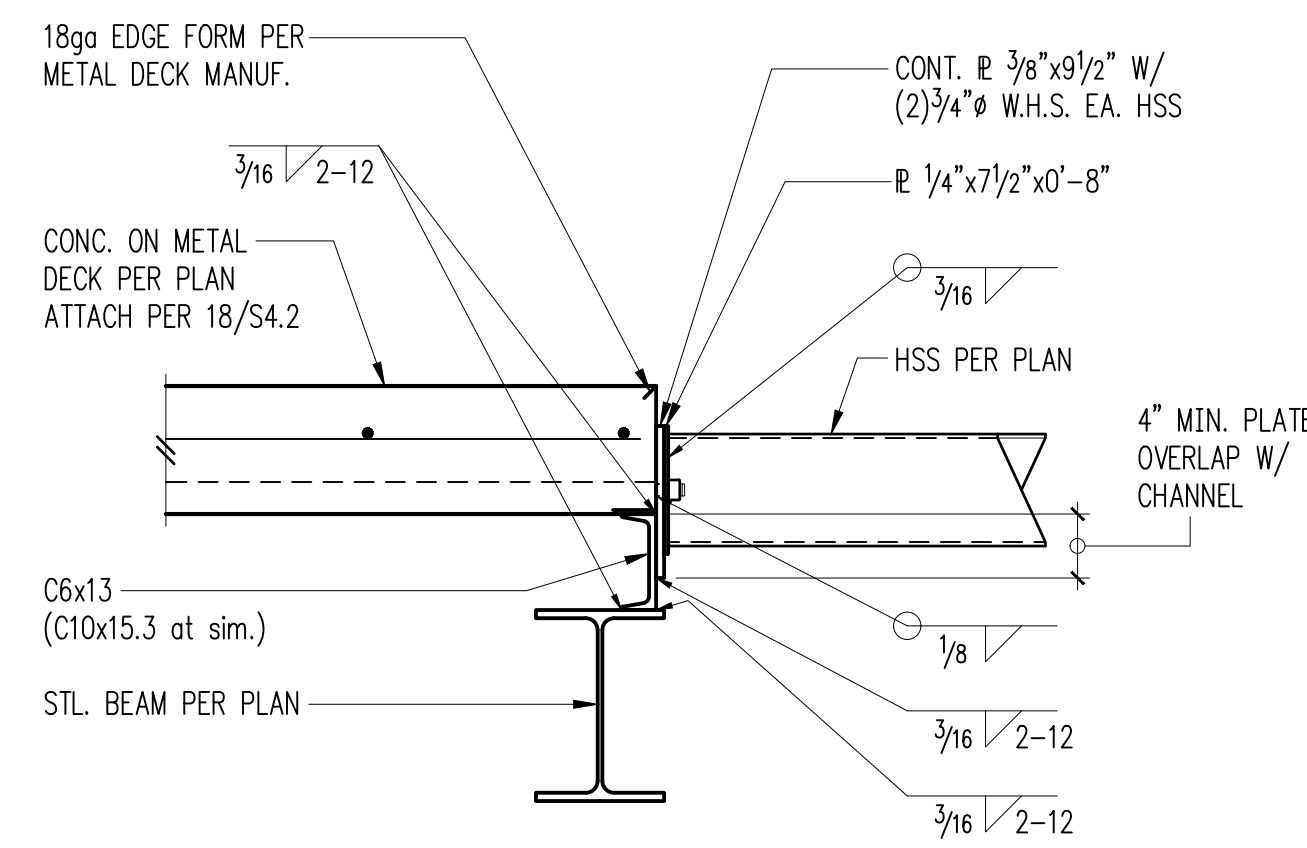
NO. OF SHEETS:



1

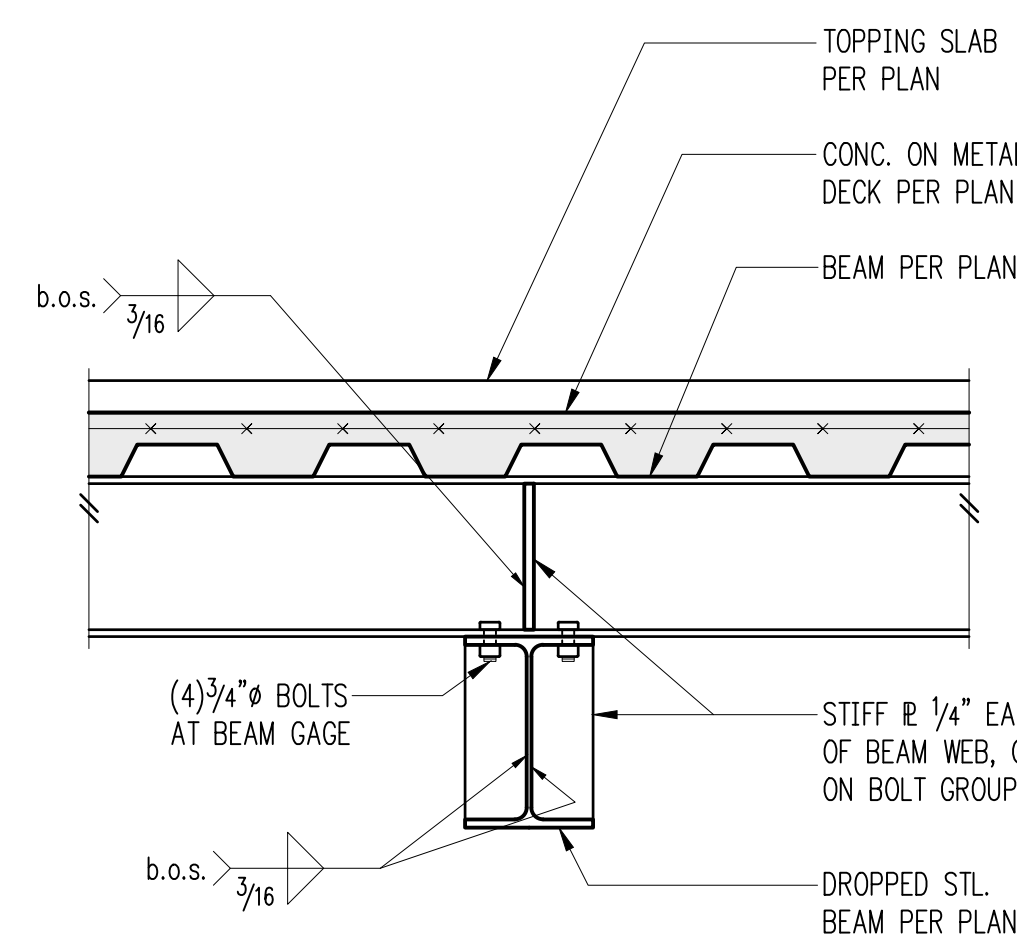
1" = 1'-0"

2



1" = 1'-0"

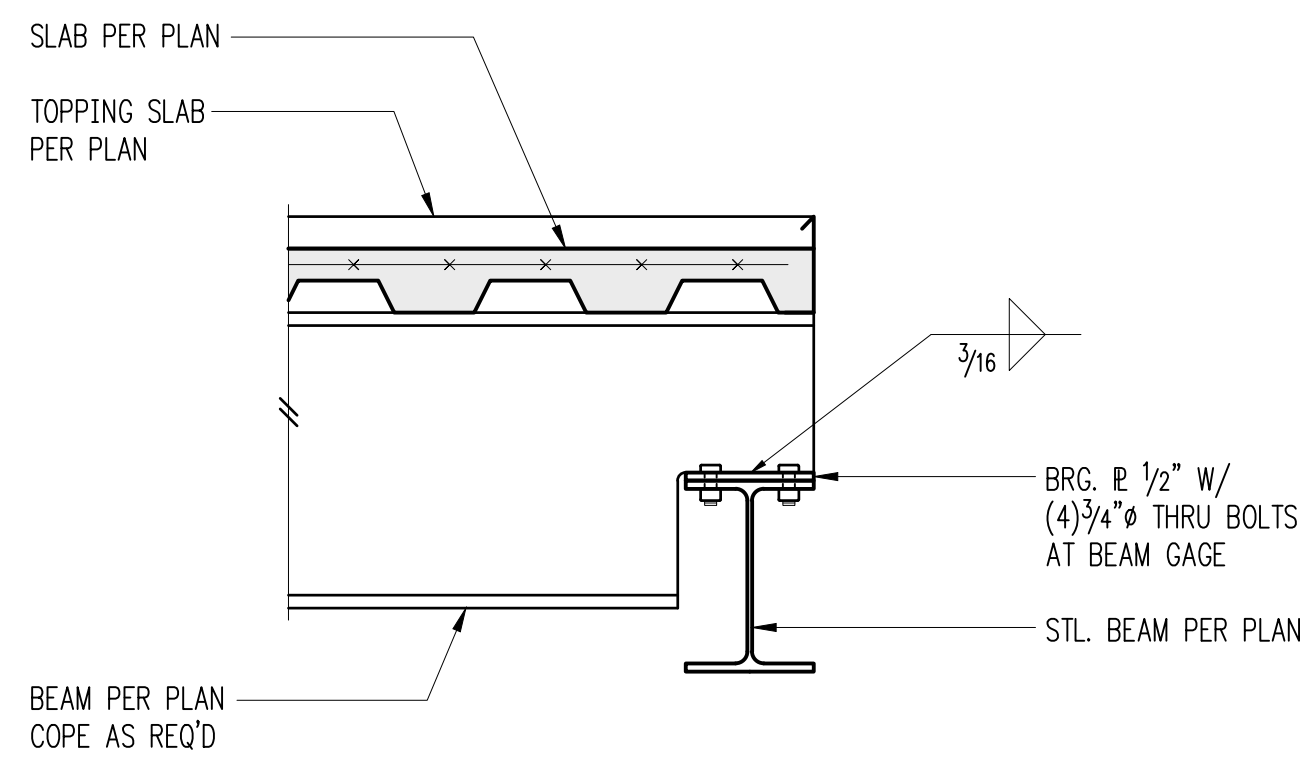
3



4

1" = 1'-0"

5

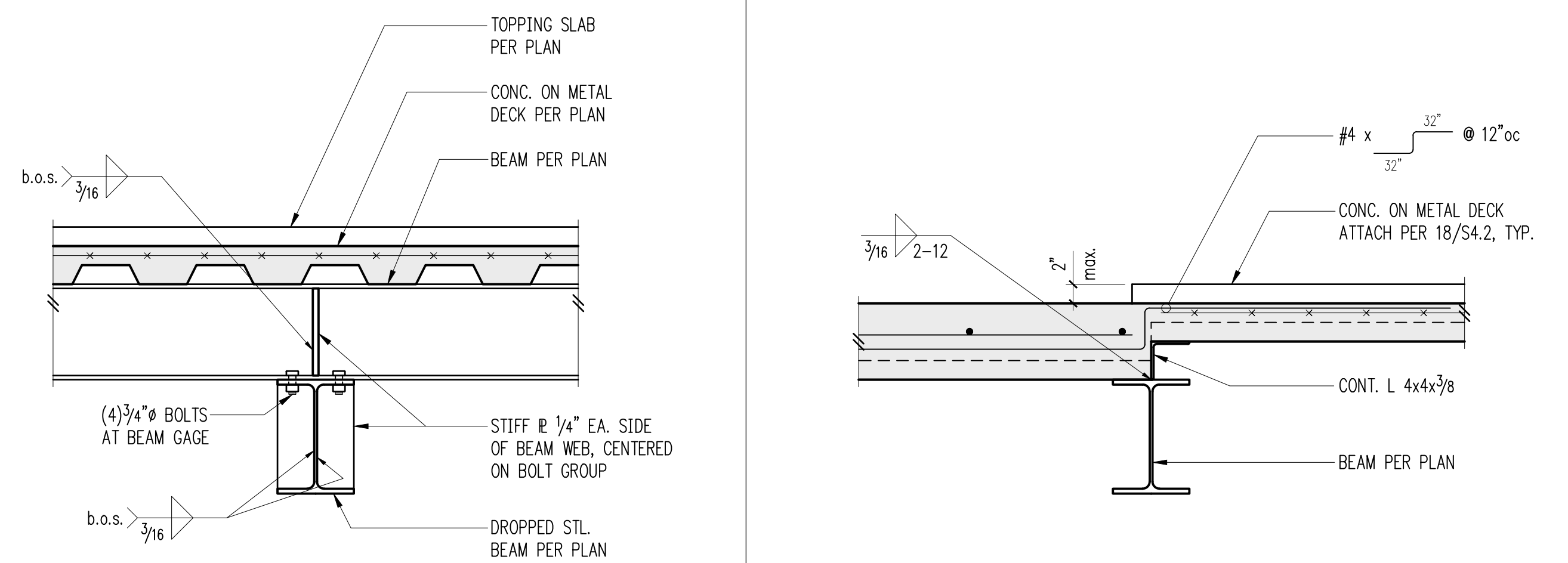


6

7

1" = 1'-0"

8

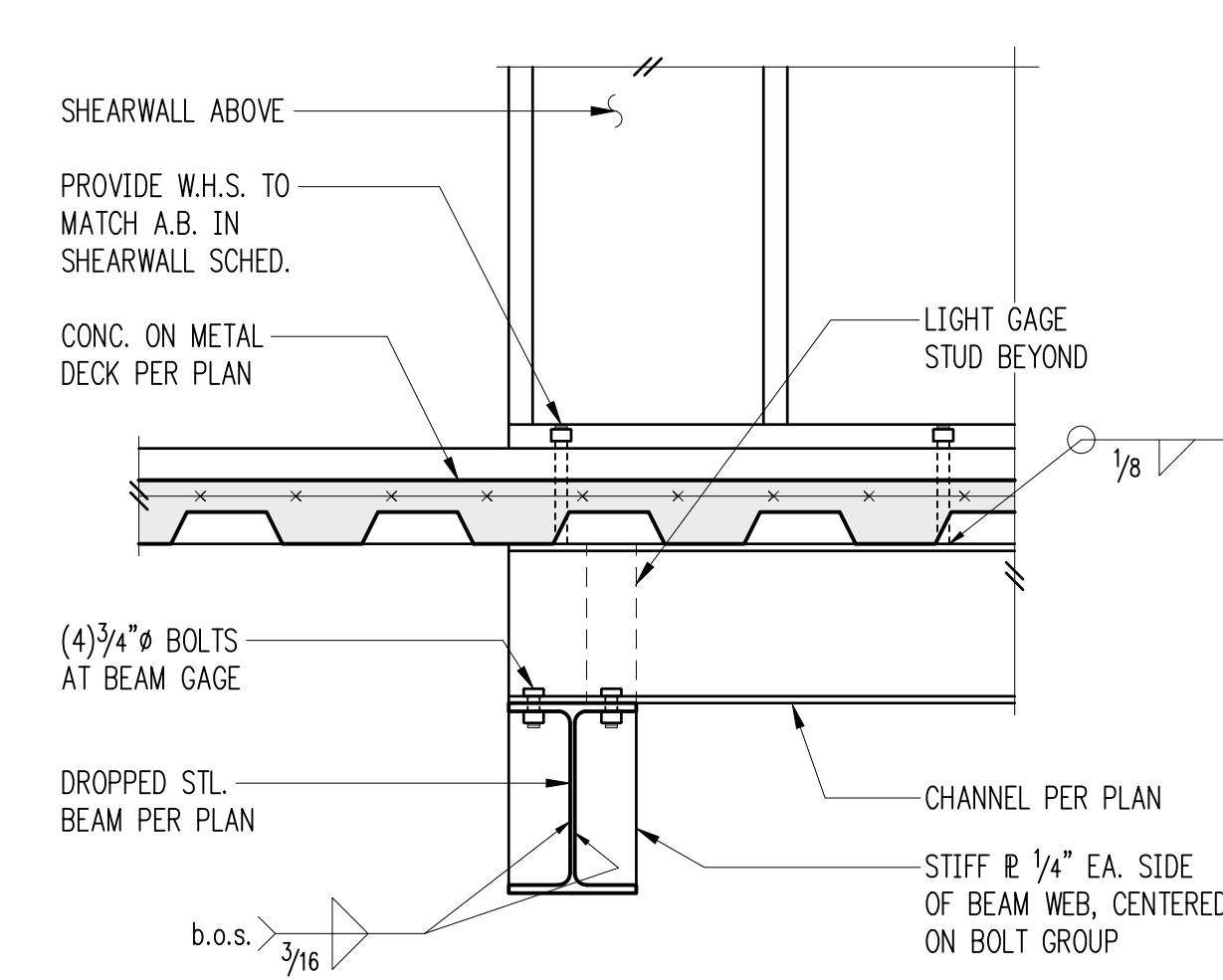


1" = 1'-0"

9

1" = 1'-0"

10

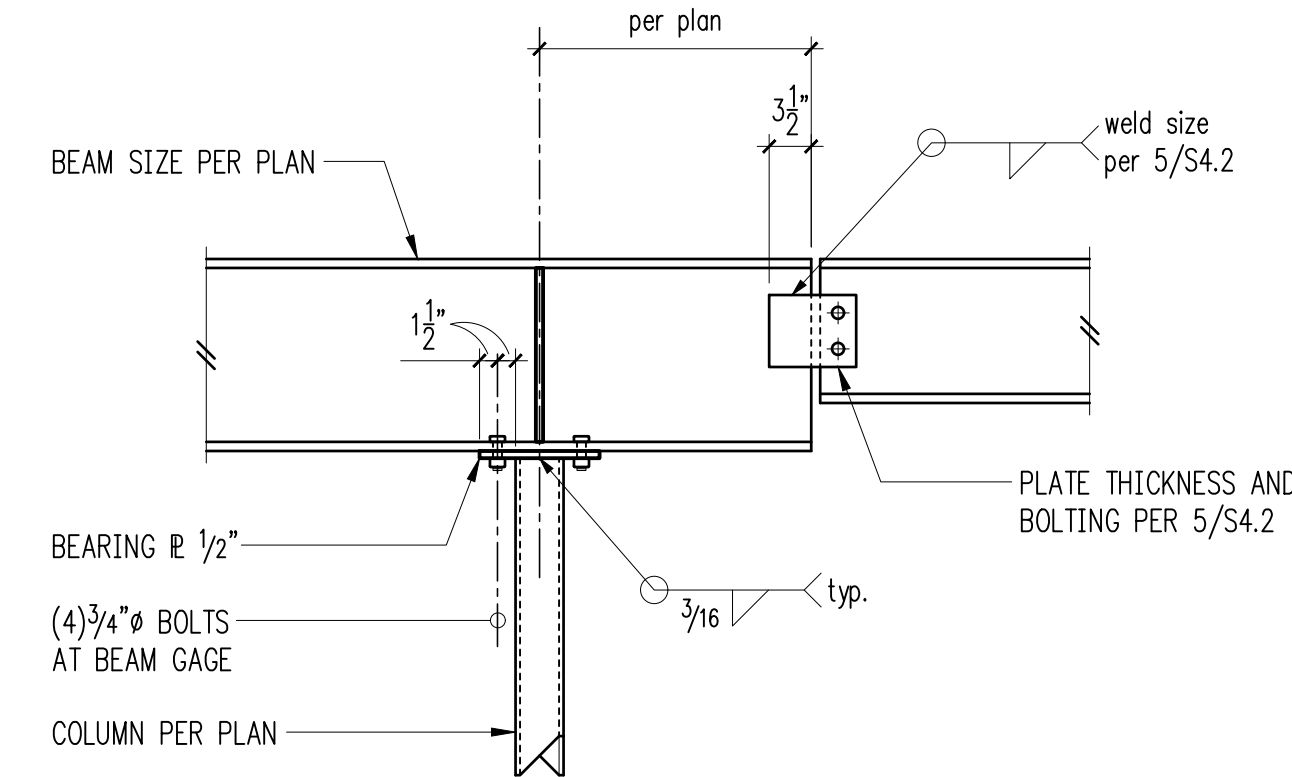


11

12

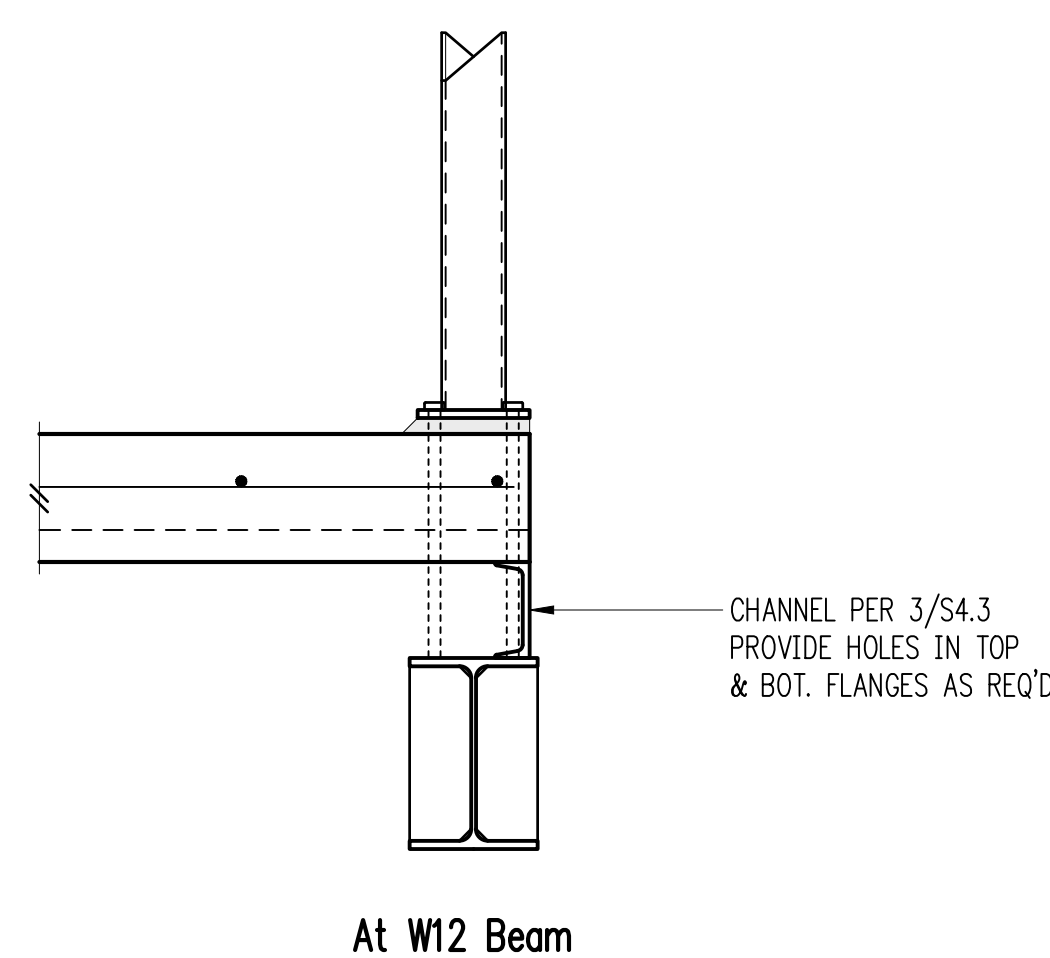
1" = 1'-0"

13



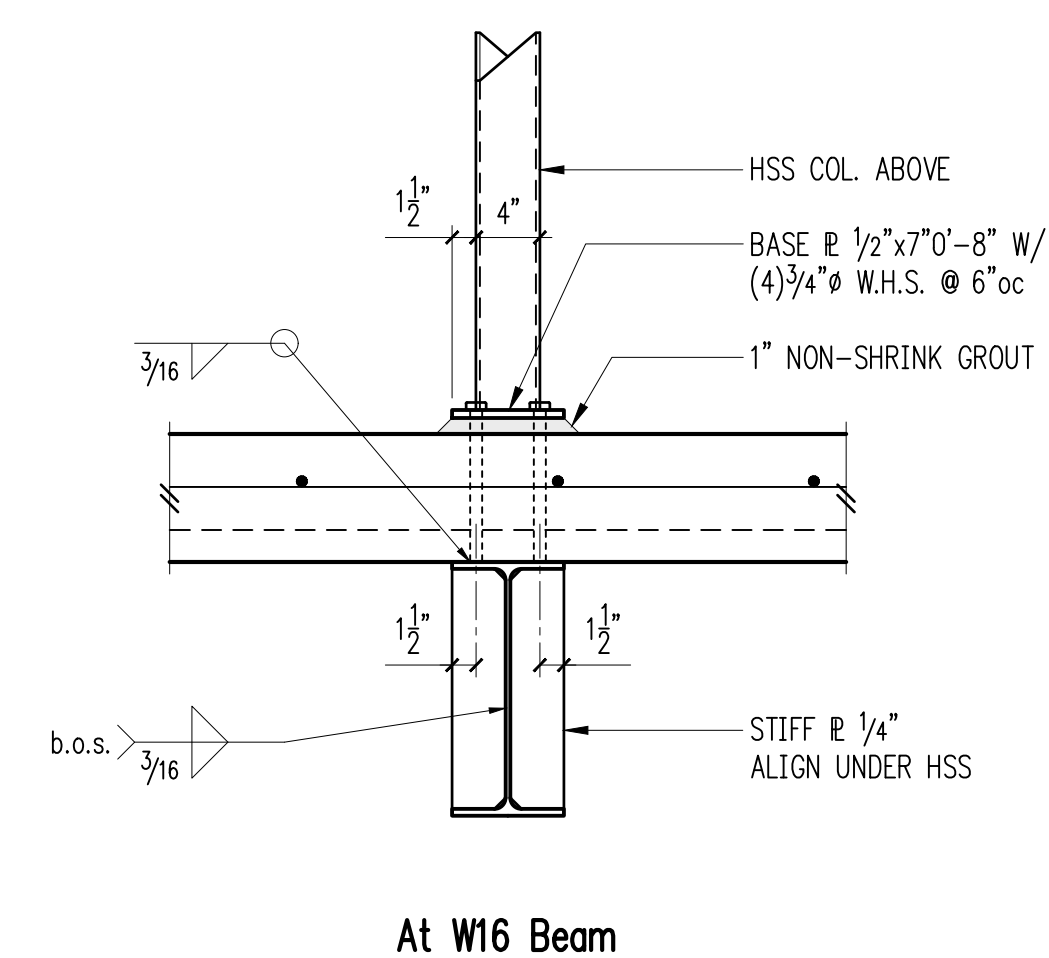
Beam Bearing on HSS or Pipe Column 14

15



16

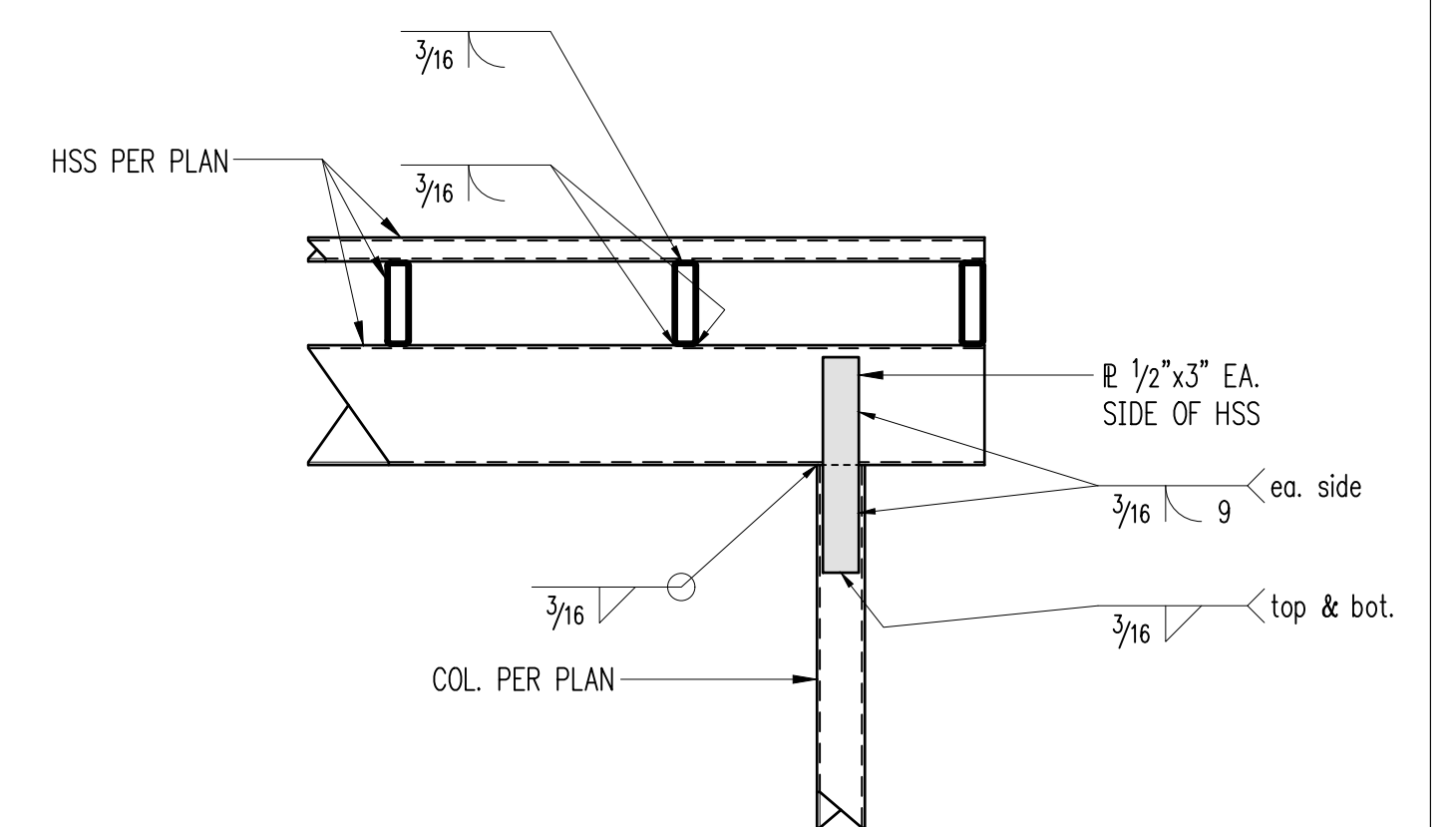
17



At W16 Beam

1" = 1'-0"

19



20

OGDEN POINT RESIDENCE

LOT 2 BUILDING PERMIT

LEGAL DESCRIPTION
(AFTER PROPOSED CONSOLIDATION)

LOT 1

LOTS A AND B, MERCER ISLAND SHORT PLAT NUMBER MI-76-8-027, RECORDED UNDER RECORDING NUMBER 7702170577, AND AS AMENDED BY BOUNDARY LINE REVISION PER CITY OF MERCER ISLAND FILE NO. MI-81-08-15 AS RECORDED UNDER RECORDING NUMBER 8211169001, SAID SHORT PLAT BEING A PORTION OF BLOCK A, REPLAT OF ISLAND PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 13 OF PLATS, PAGE 58, IN KING COUNTY, WASHINGTON;

TOGETHER WITH SECOND CLASS SHORELANDS ADJACENT THERETO;

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS OVER AN EXISTING PRIVATE ROADWAY LOCATED UPON PROPERTY ADJOINING AS CREATED BY EASEMENTS RECORDED UNDER RECORDING NUMBERS 3860939 AND 3927412, AND ALSO AS DELINEATED ON THE FACE OF SAID BOUNDARY LINE REVISION; AND

TOGETHER WITH PARKING INGRESS, EGRESS AND DRAINAGE EASEMENT AS ESTABLISHED BY PARKING AREA EASEMENT RECORDED UNDER RECORDING NUMBER 5094317 AND AS FURTHER DESCRIBED IN DEED RECORDED UNDER RECORDING NUMBER 8308170194; AND

TOGETHER WITH THAT CERTAIN EASEMENT FOR UNDERGROUND AND OVERHEAD UTILITIES AS ESTABLISHED BY UTILITY EASEMENT RECORDED UNDER RECORDING NUMBER 9304061280.

LOT 2

LOT C, MERCER ISLAND SHORT PLAT NUMBER MI-76-8-027, RECORDED UNDER RECORDING NUMBER 7702170577, AND AS AMENDED BY BOUNDARY LINE REVISION PER CITY OF MERCER ISLAND FILE NO. MI-81-08-15 AS RECORDED UNDER RECORDING NUMBER 8211169001, SAID SHORT PLAT BEING A PORTION OF BLOCK A, REPLAT OF ISLAND PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 13 OF PLATS, PAGE 58, IN KING COUNTY, WASHINGTON;

TOGETHER WITH SECOND CLASS SHORELANDS ADJACENT THERETO;

TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS OVER AN EXISTING PRIVATE ROADWAY LOCATED UPON PROPERTY ADJOINING AS CREATED BY EASEMENTS RECORDED UNDER RECORDING NUMBERS 3860939 AND 3927412, AND ALSO AS DELINEATED ON THE FACE OF SAID BOUNDARY LINE REVISION; AND

TOGETHER WITH PARKING INGRESS, EGRESS AND DRAINAGE EASEMENT AS ESTABLISHED BY PARKING AREA EASEMENT RECORDED UNDER RECORDING NUMBER 5094317 AND AS FURTHER DESCRIBED IN DEED RECORDED UNDER RECORDING NUMBER 8308170194; AND

TOGETHER WITH THAT CERTAIN EASEMENT FOR UNDERGROUND AND OVERHEAD UTILITIES AS ESTABLISHED BY UTILITY EASEMENT RECORDED UNDER RECORDING NUMBER 9304061280.

BASIS OF BEARING

HELD BEARING OF NORTH 40°36'45" WEST BETWEEN EXISTING TACKS SET IN LEAD BY H.W. RUTHERFORD IN 1959, AS SHOWN HEREON AND REFERENCED.

HORIZONTAL DATUM

ASSUMED

VERTICAL DATUM

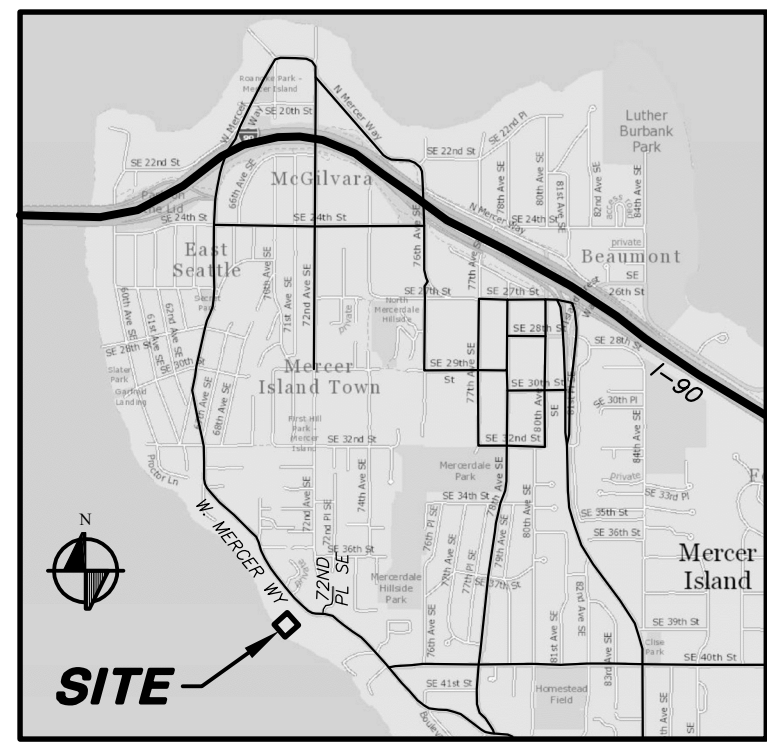
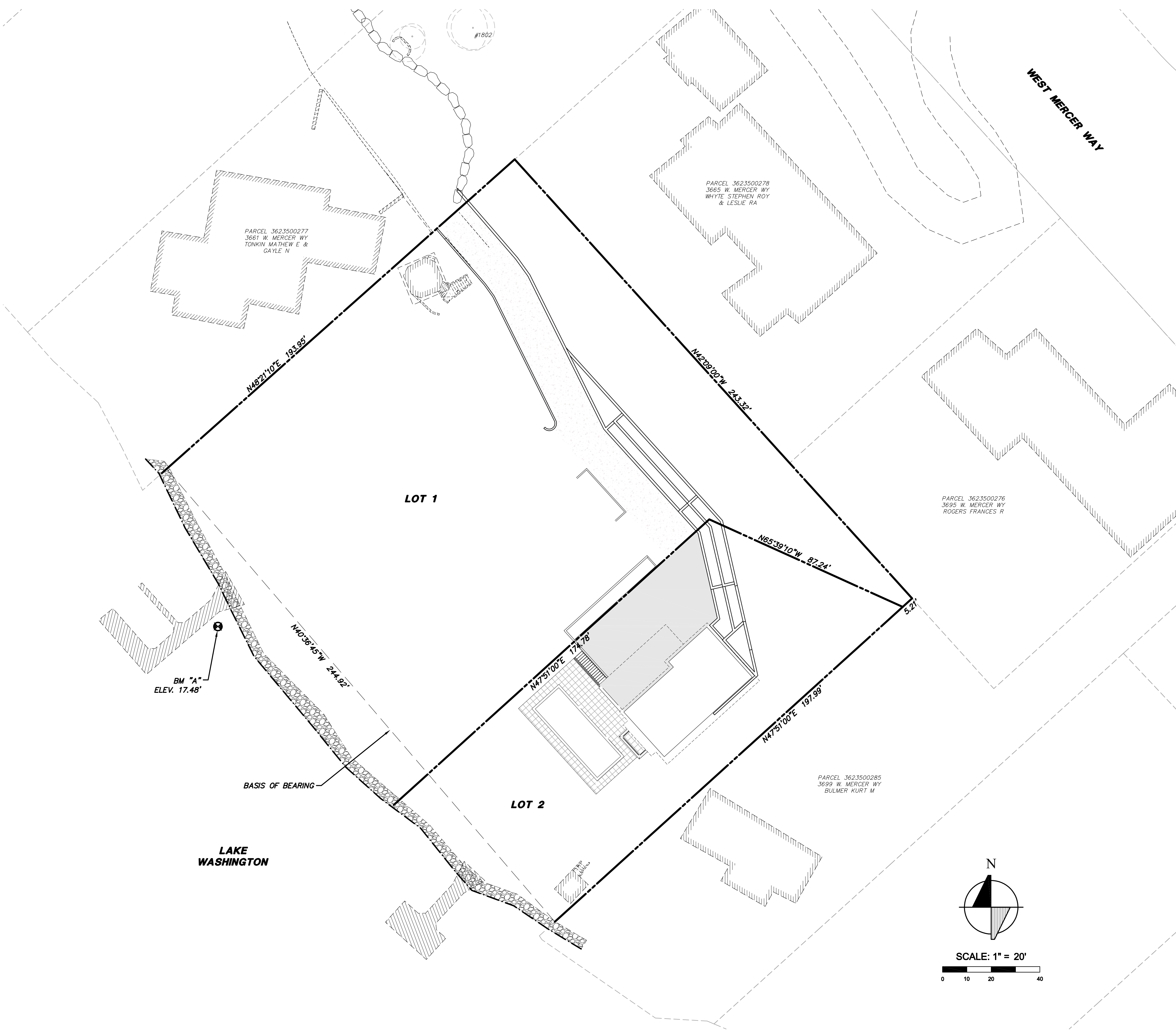
NAVD88

BENCH MARK

ORIGINAL BENCHMARK:

WCS SURVEY DATA WAREHOUSE POINT DESIGNATION-8037, 2" BRASS CAP IN 4" CONC. MON (DN 0.3") WEST MERCER WAY AT JOG100' SE OF INTERSECTION OF LAKE PL. 950' NW OF INTERSECTION SE 40TH ST. ELEV 171.06'

BM "A", SET TACK ON CENTERLINE OF DOCK ON LOT A ±10 FROM SHORE. ELEVATION = 17.48'



OWNER

THE LADYBUG TRUST

PROJECT ENGINEER/SURVEYOR

TRIAD
20300 WOODINVILLE SNOHOMISH ROAD NE
SUITE 200, WOODINVILLE, WA 98072
PHONE: (425) 415-2000
FAX: (425) 486-5059
CONTACTS: MARY MCDOWELL, PLS (SURVEYOR)
ADAM STRICKER, PE (ENGINEER)

PROJECT ARCHITECT

DEMETRIOU ARCHITECTS, PLLC
5555 LAKEVIEW DRIVE, SUITE 200,
KIRKLAND, WA 98033
PHONE: (425) 827-1700
CONTACT: DAVID JAFFE

LANDSCAPE ARCHITECT

KEN LARGE LANDSCAPE ARCHITECTS
21803 NE 17TH COURT
SAMMAMISH, WA 98074
PHONE: (425) 836-4578
CONTACT: KEN LARGE

GEOTECHNICAL ENGINEER

GEOTECH CONSULTANTS, INC.
13256 NE 20TH ST, SUITE 16
BELLEVUE, WA 98005
PHONE: (425) 747-5618
CONTACT: THOR CHRISTENSEN

SHEET INDEX

- C1 COVER SHEET
- C2 TESC PLAN AND DETAILS
- C3 GRADING, PAVING AND UTILITY PLAN
- C4 NOTES AND DETAILS

WASHINGTON
 LOT 2 BUILDING PERMIT
 COVER SHEET
 THE LADYBUG TRUST
 OGDEN POINT RESIDENCE
 BUILDING PERMIT
 CITY OF MERCER ISLAND,

DATE: _____ BY: _____
 REVIEWED BY: _____ DATE: _____
 PROJECT MANAGER: RICHARD A. TOMKINS, PE
 PROJECT SURVEYOR: MARY MCDOWELL, PLS
 PROJECT ARCHITECT: ADAM STRICKER, PE
 PROJECT ENGINEER: ADAM STRICKER, PE
 PROJECT LANDSCAPE ARCHITECT: _____
 FIRST SUBMITTAL DATE: _____
 SCALE: HORIZ: 1"=20' VERT: N/A

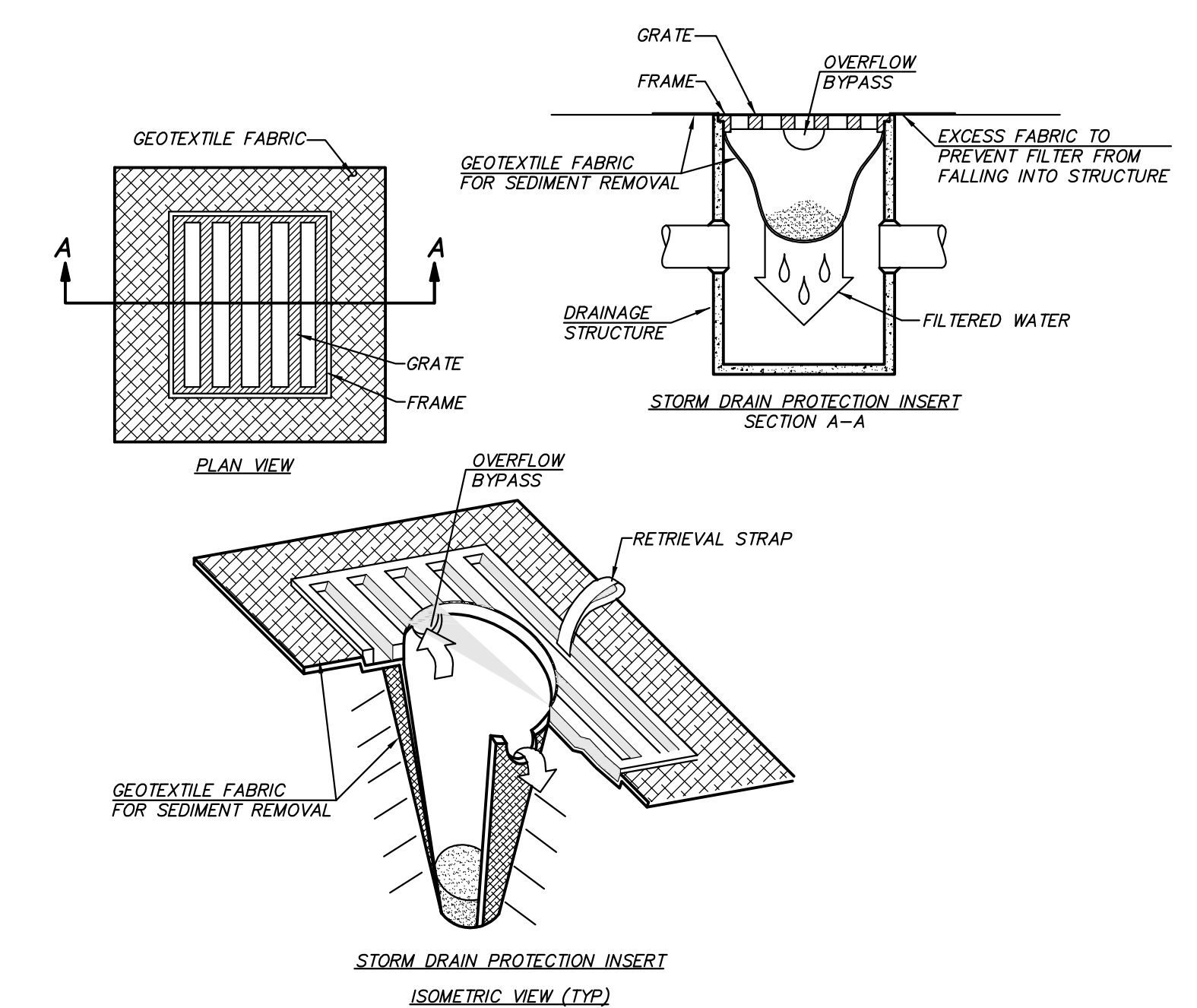
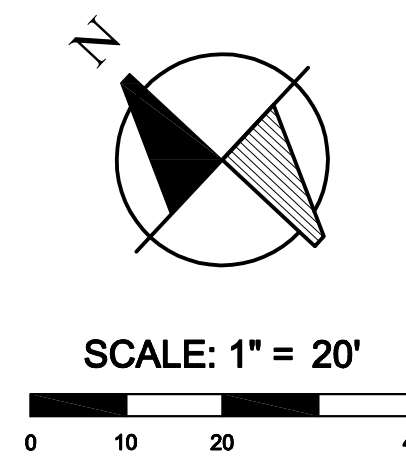


CAUTION
LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. YOU MUST CALL 1-800-424-5555 NOT LESS THAN TWO FULL BUSINESS DAYS BEFORE BEGINNING EXCAVATION WHERE ANY UNDERGROUND UTILITIES MAY BE LOCATED. FAILURE TO DO SO COULD MEAN BEARING SUBSTANTIAL REPAIR COSTS.

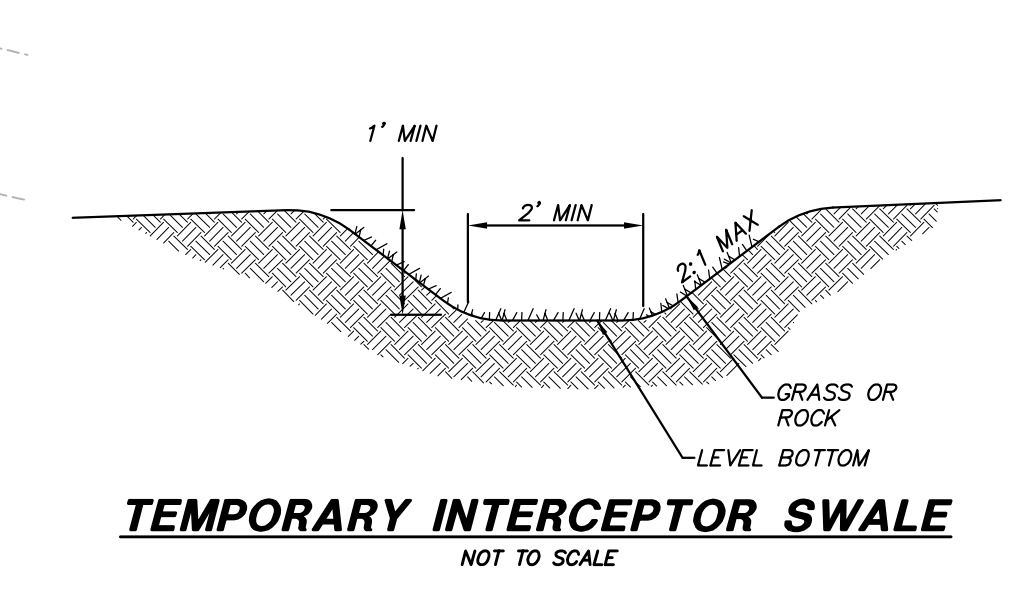
STAMP NOT VALID
UNLESS SIGNED AND DATED
JOB NO. **LDYB0002**
SHEET NO. **C1 of 4**

EROSION AND SEDIMENT CONTROL NOTES

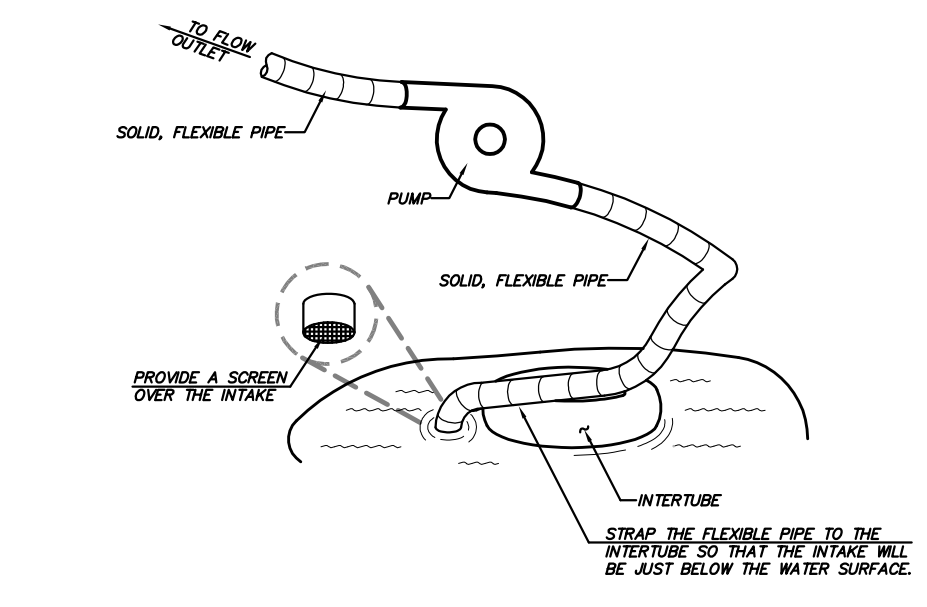
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESCUL UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESCUL FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
- ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS OF STORM EVENT.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LOADED WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE 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 CITY INSPECTOR. THE CITY INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.



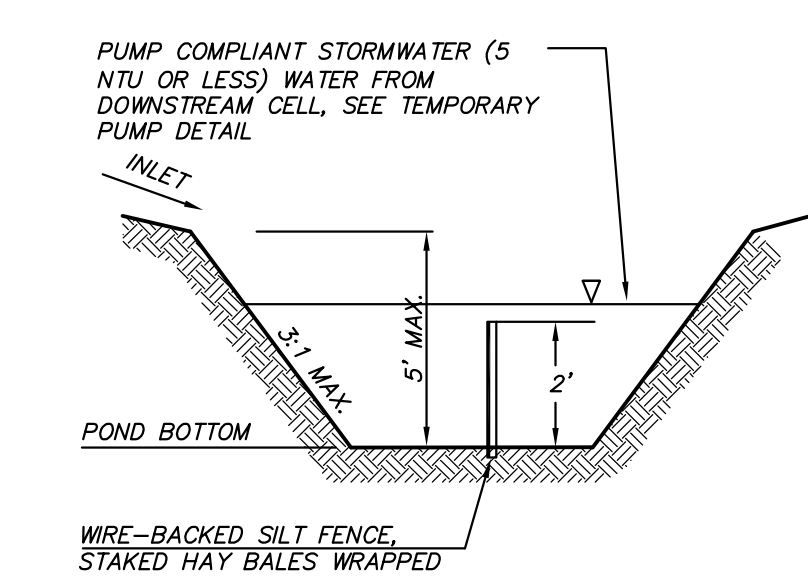
CATCH BASIN TEMPORARY EROSION CONTROL FILTER
NOT TO SCALE



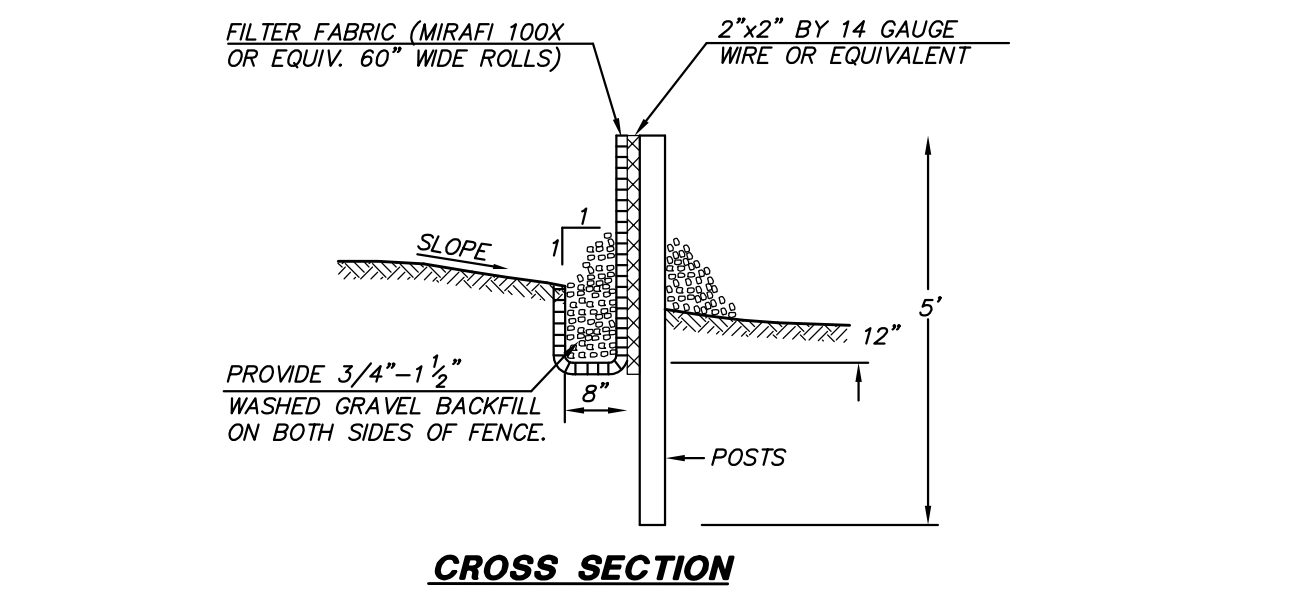
TEMPORARY INTERCEPTOR SWALE
NOT TO SCALE



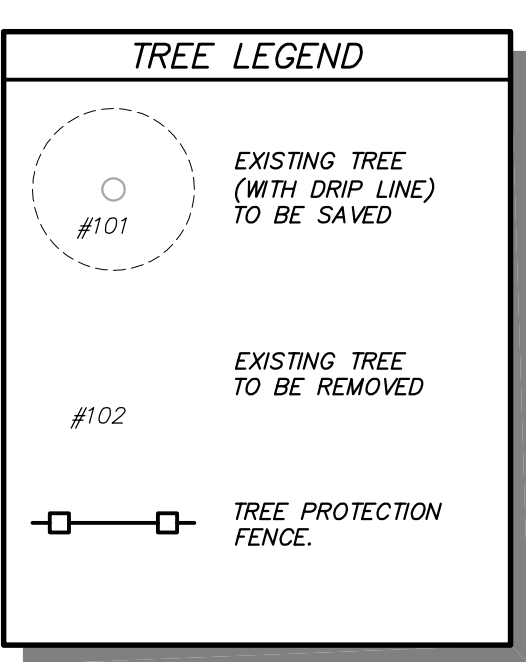
TEMPORARY PUMP DETAIL
NOT TO SCALE



SEDIMENT TRAP CROSS SECTION
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE



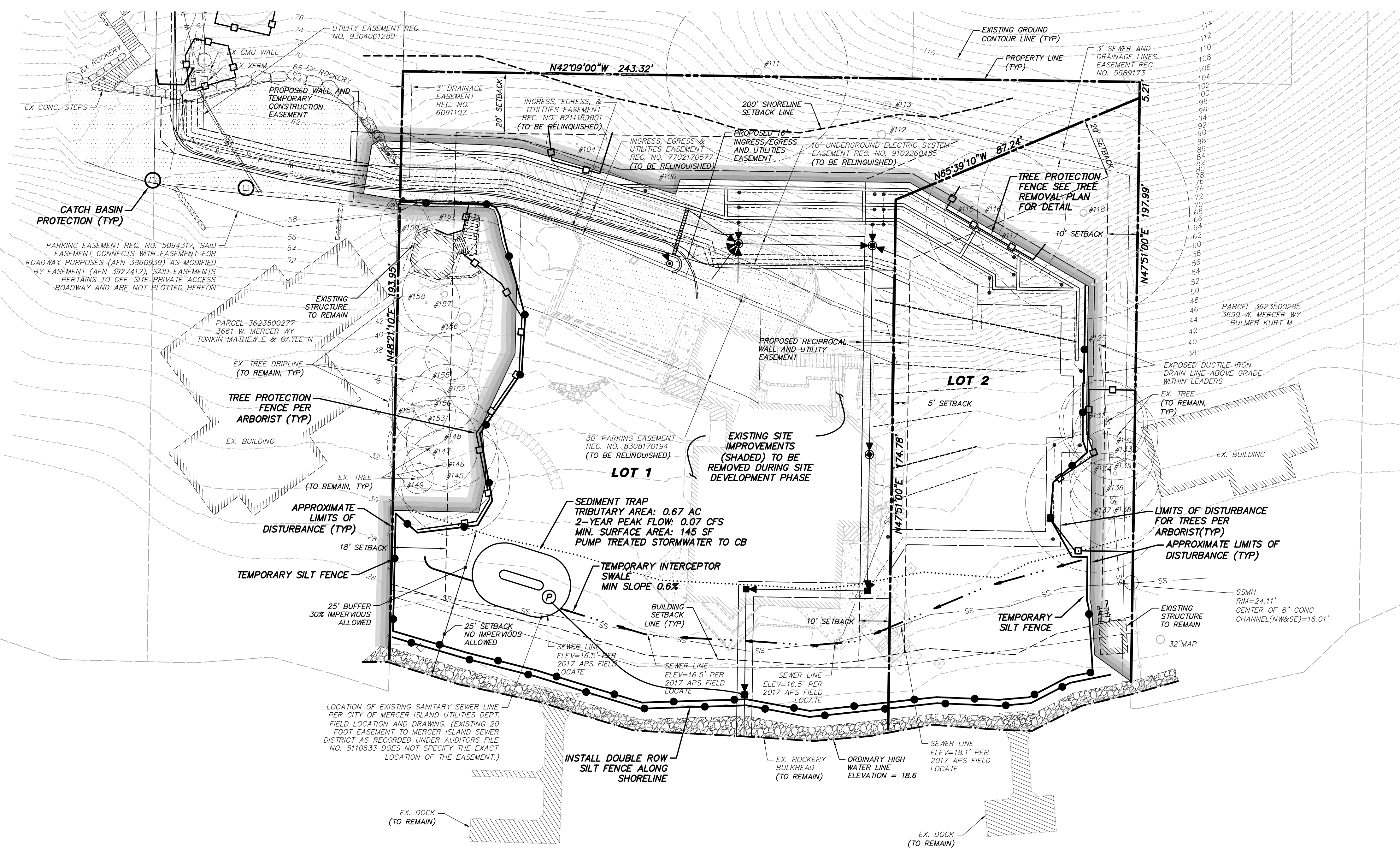
TREES WITH DIAMETERS LESS THAN SIX INCHES ARE CONSIDERED NON-SIGNIFICANT.

FOLLOWING DEMOLITION AND PRIOR TO CONSTRUCTION, PROPOSED BUILDING WITH EXCAVATION LIMITS SHALL BE MARKED IN THE FIELD.

CONTRACTOR MAY RELOCATE TESC FACILITIES (SEDIMENT TRAP AND INTERCEPTOR SWALE) AS NEEDED TO FACILITATE CONSTRUCTION.

TOTAL DISTURBED AREA: 27,500 SQUARE FEET

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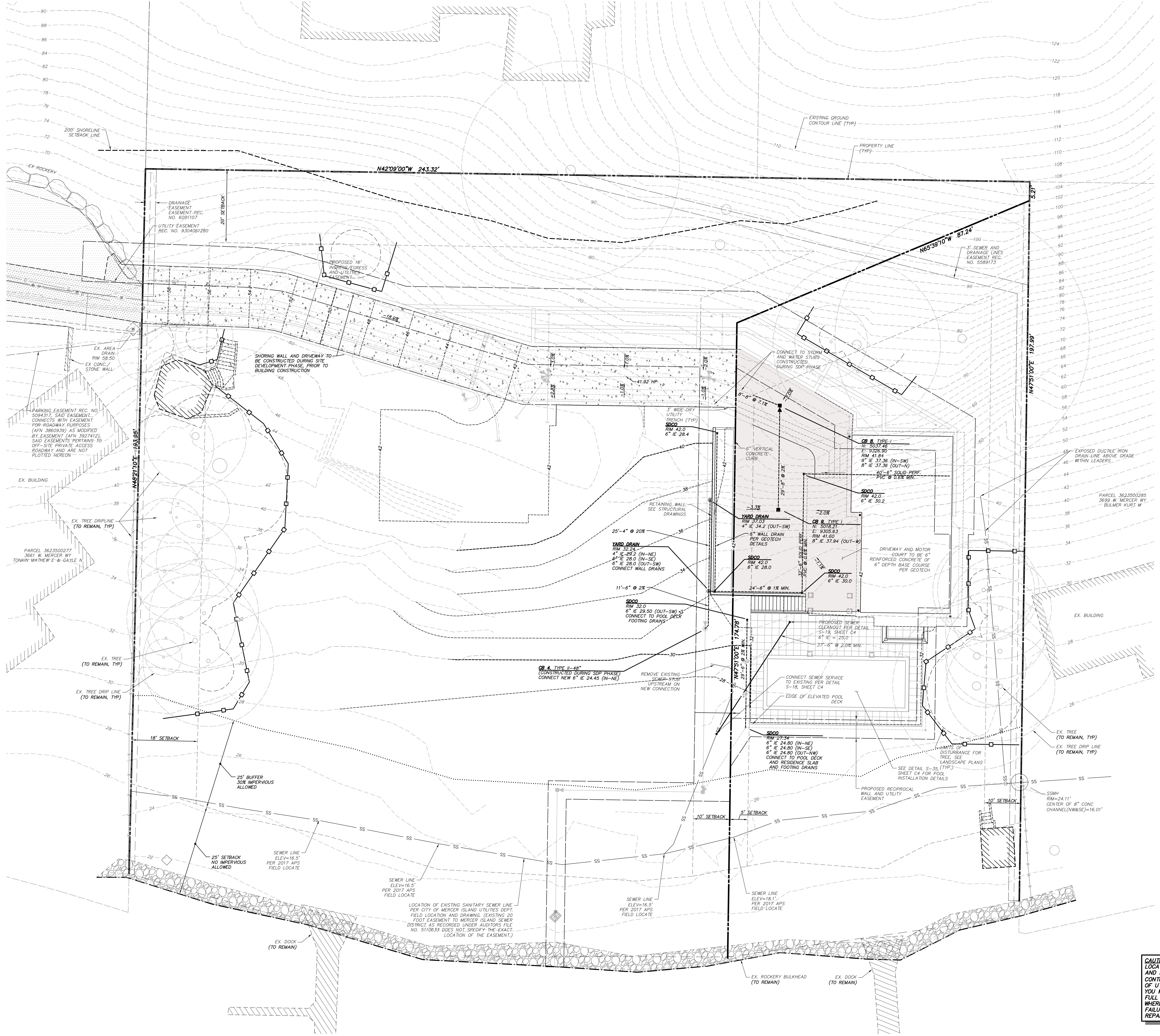
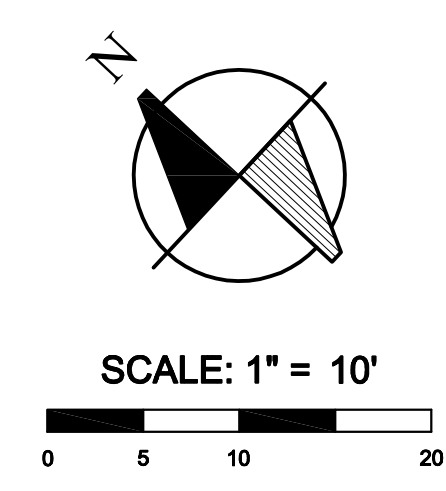


LAKE WASHINGTON

WASHINGTON
 TESC PLAN AND DETAILS
 THE LADYBUG TRUST
OGDEN POINT RESIDENCE
 BUILDING PERMIT
 CITY OF MERCER ISLAND,

DATE: _____
 REVISIONS BY: _____
 NO. _____
 RICHARD A. TOMKINS, PE
 PROJECT MANAGER
 MARY MCCOMMELL, PLS
 PROJECT SURVEYOR
 ADAM STROCKER, PE
 PROJECT ENGINEER
 PROJECT LANDSCAPE ARCHITECT
 FIRST SUBMITTAL DATE: _____
 SCALE: HORIZ. 1"=20' VERT. 1/4"=1'

STAMP NOT VALID
 UNLESS SIGNED AND DATED
 JOB NO. **LDYB0002**
 SHEET NO. **C2 OF 4**



FF ELEVATIONS:
 MAIN HOUSE 32.0'
 LOWER MOTORCOURT 42.0'

ALL STORMDRAIN PIPES TO BE PVC ASTM D-3034, SDR-35 UNLESS OTHERWISE NOTED

YARD DRAIN (YD) SPECIFICATION:
 YARD DRAINS SHALL BE 15" NYLOPLAST DRAIN BASIN WITH CONCRETE BOTTOM AND WITH INTEGRATED DUCTILE IRON FRAME AND GRATE (OR ALTERNATE, APPROVED BY OWNER). ROAD AND FOUNDATION DRAIN CONNECTS TO BE MADE TO YARD DRAINS VIA STACKED 18"x6" TEE FITTINGS.

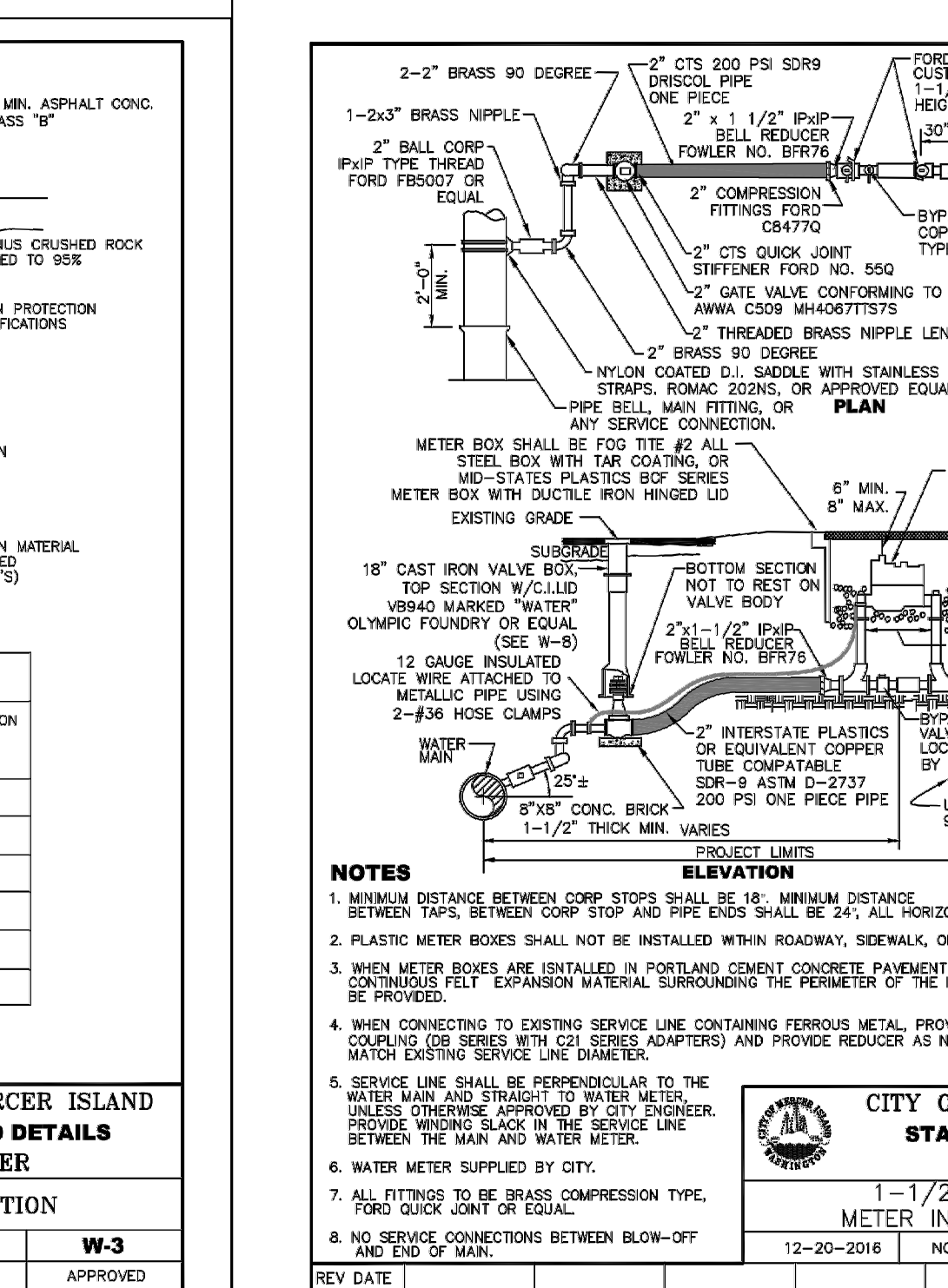
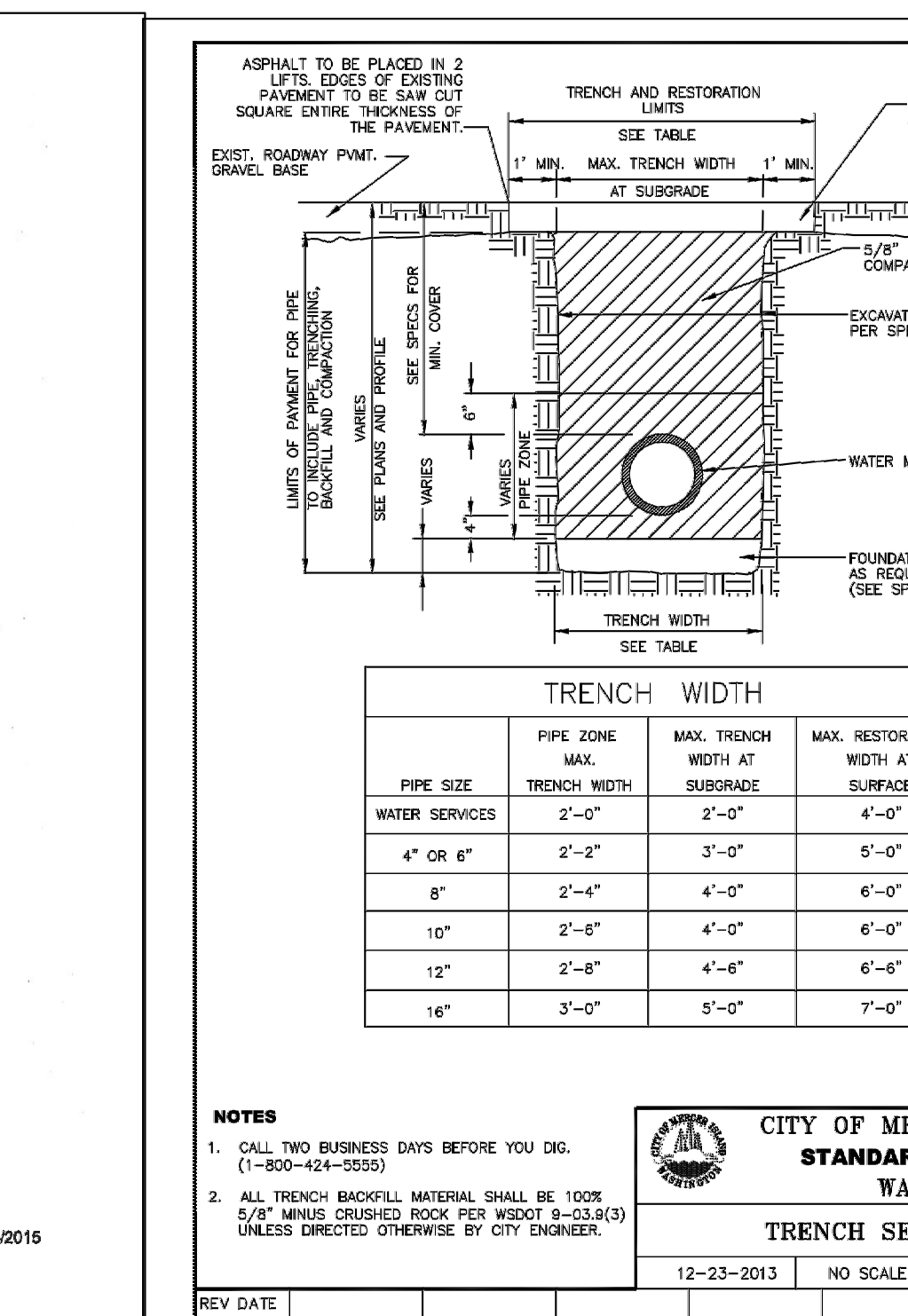
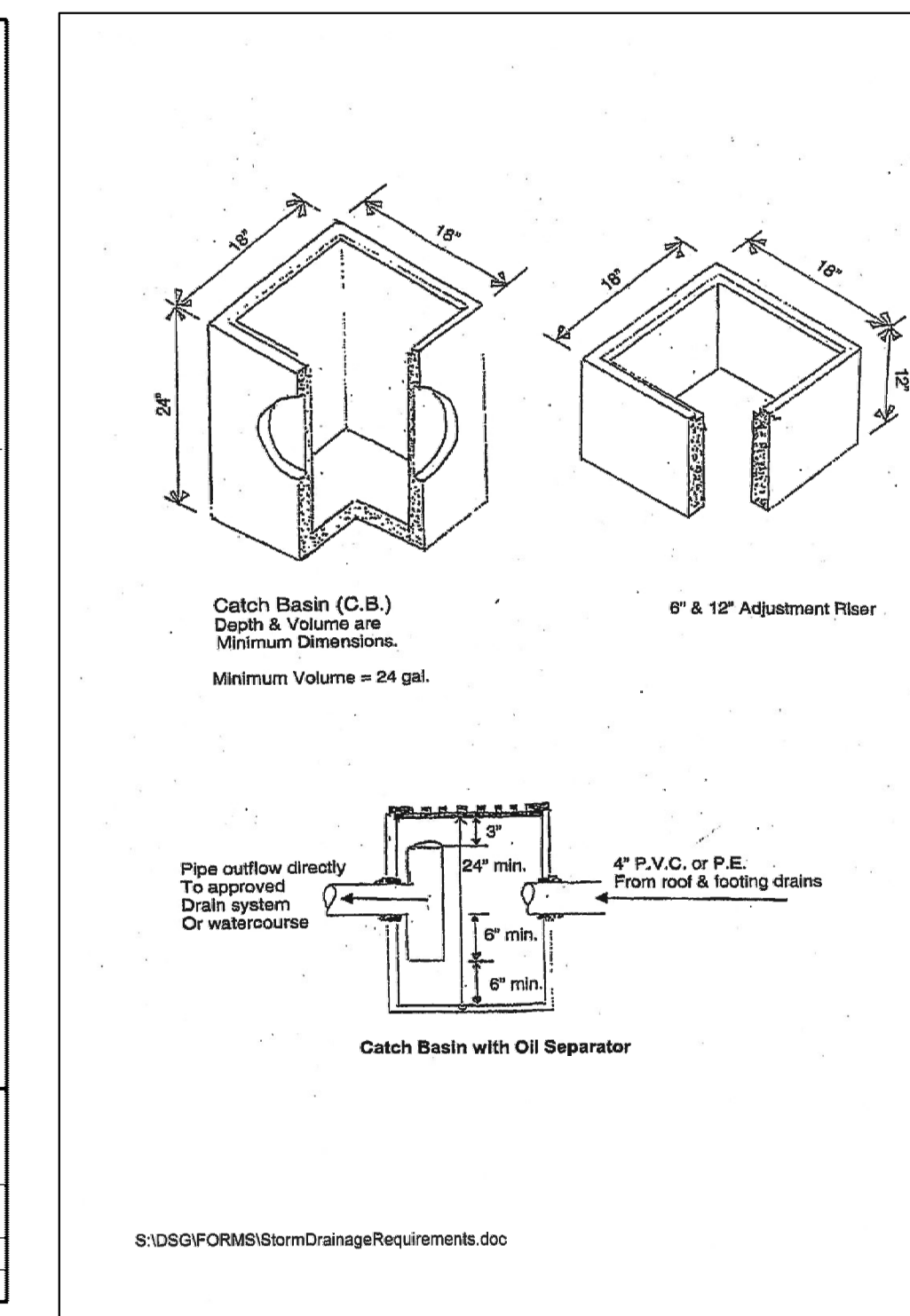
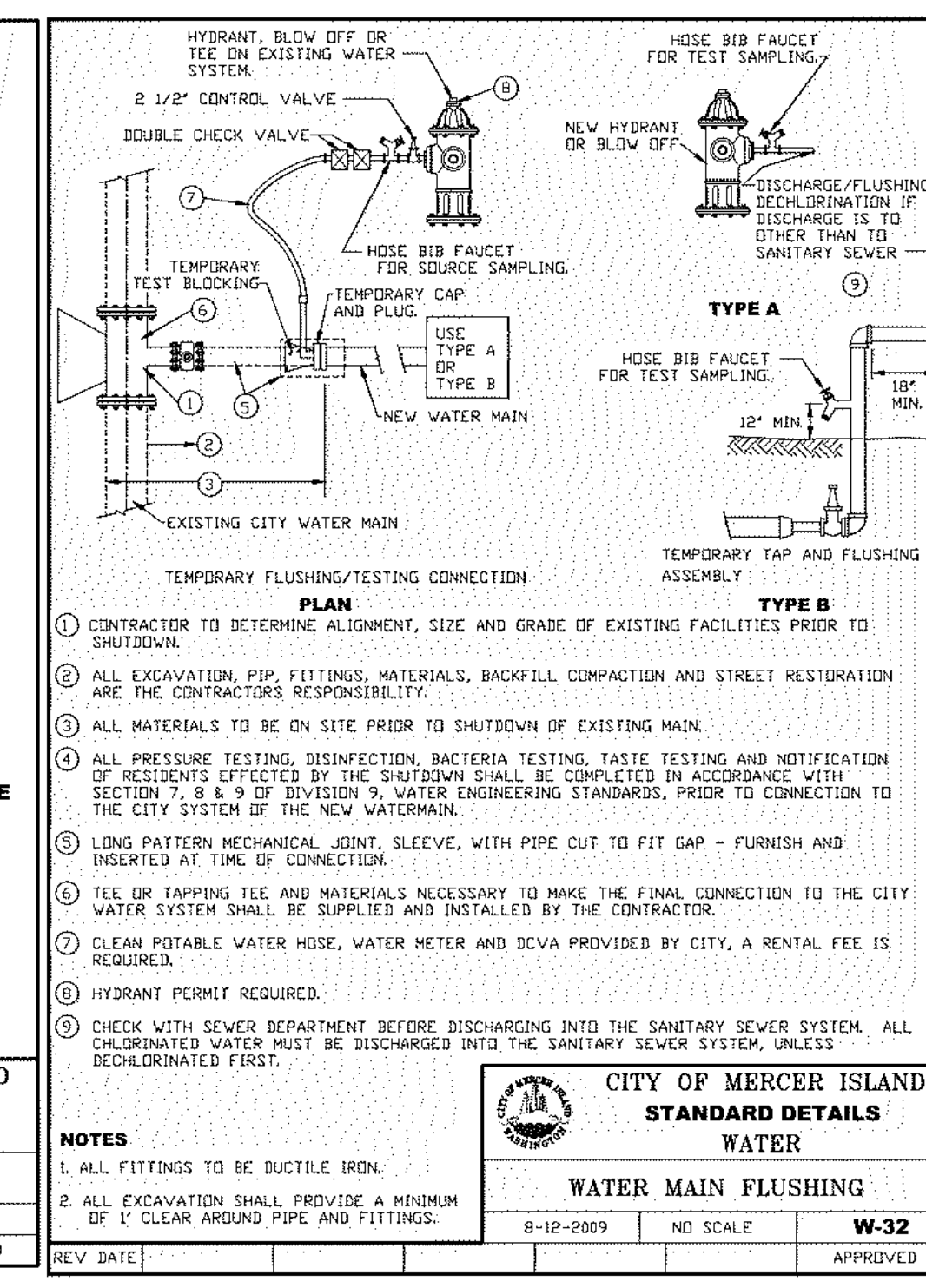
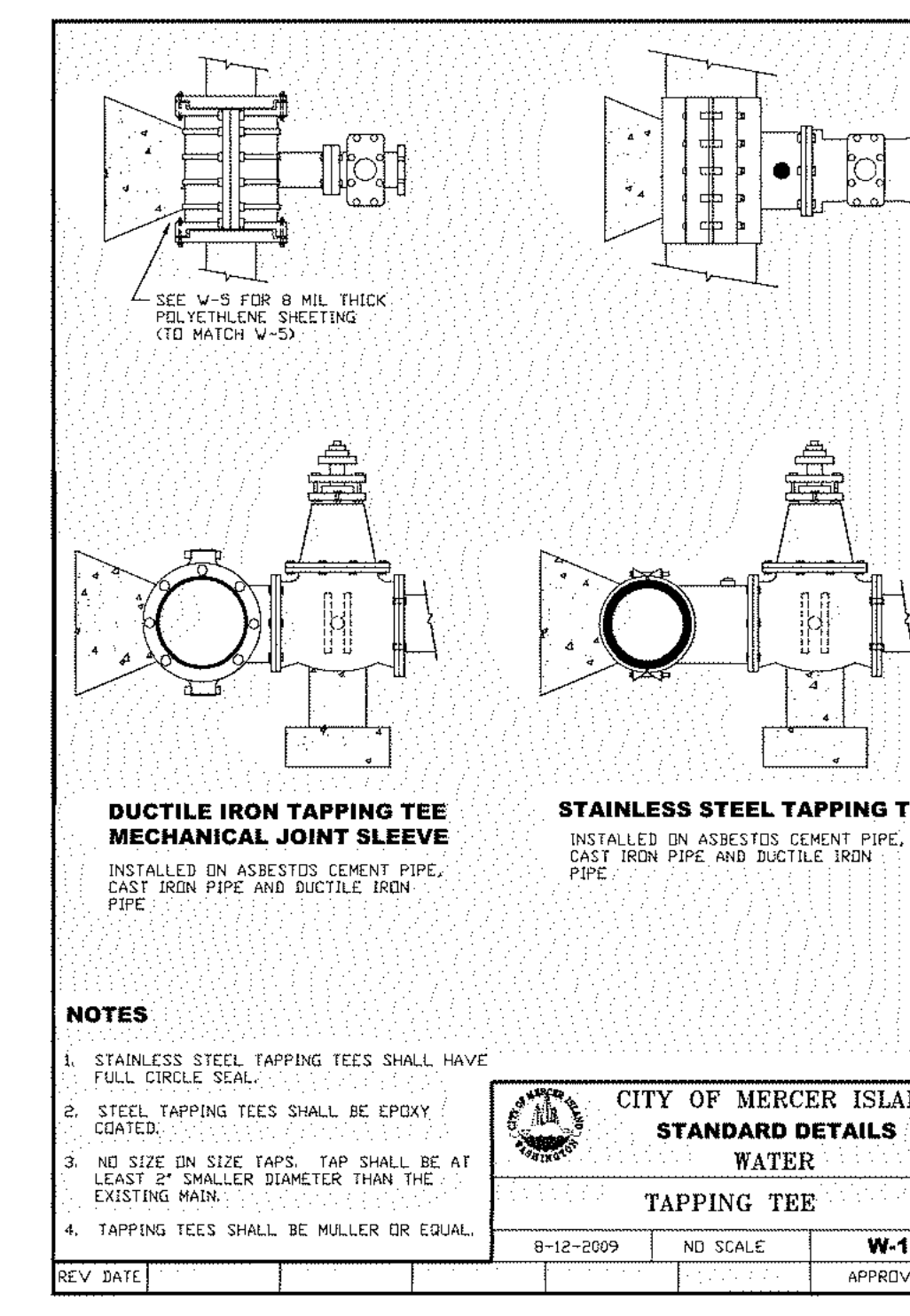
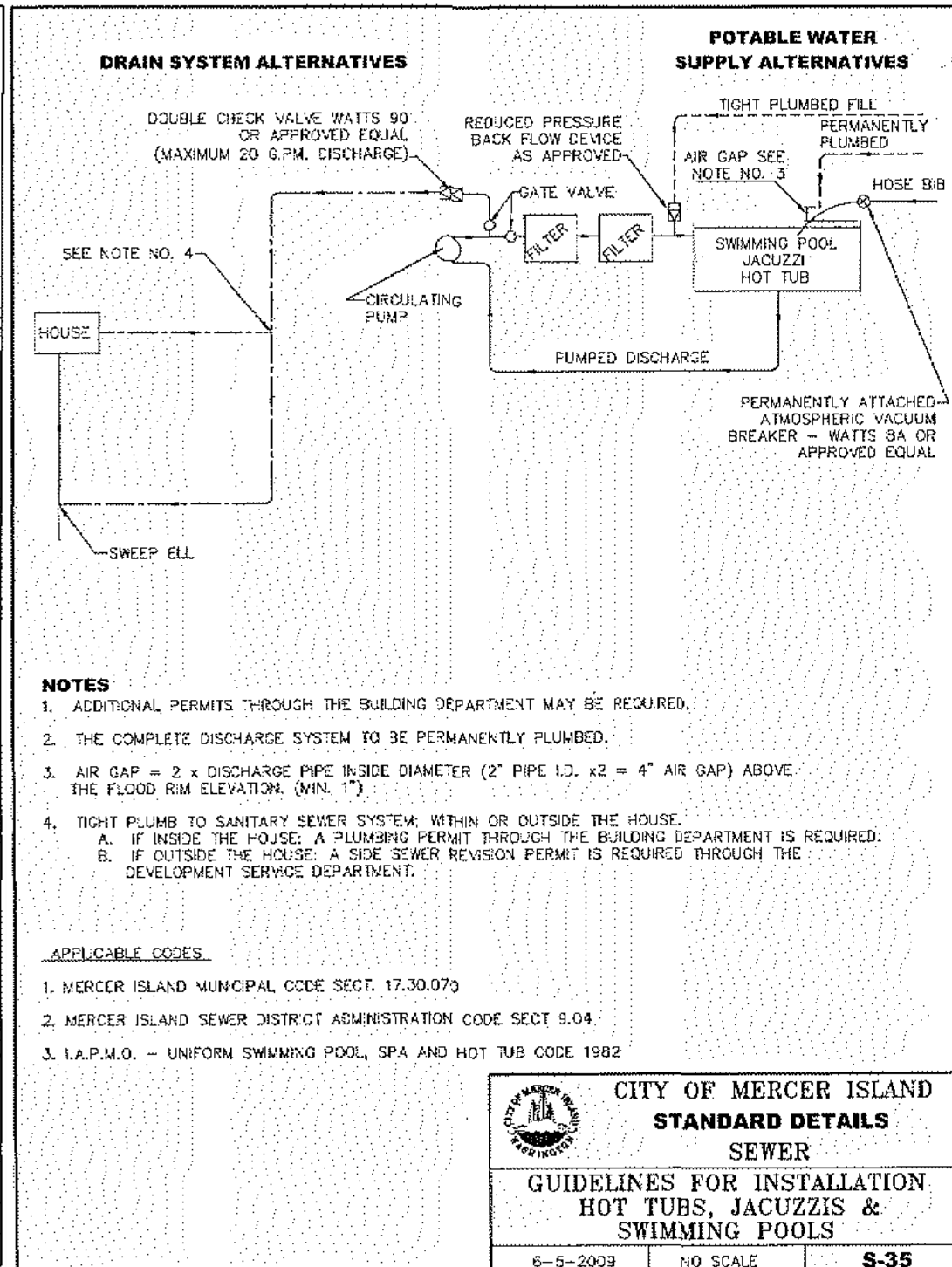
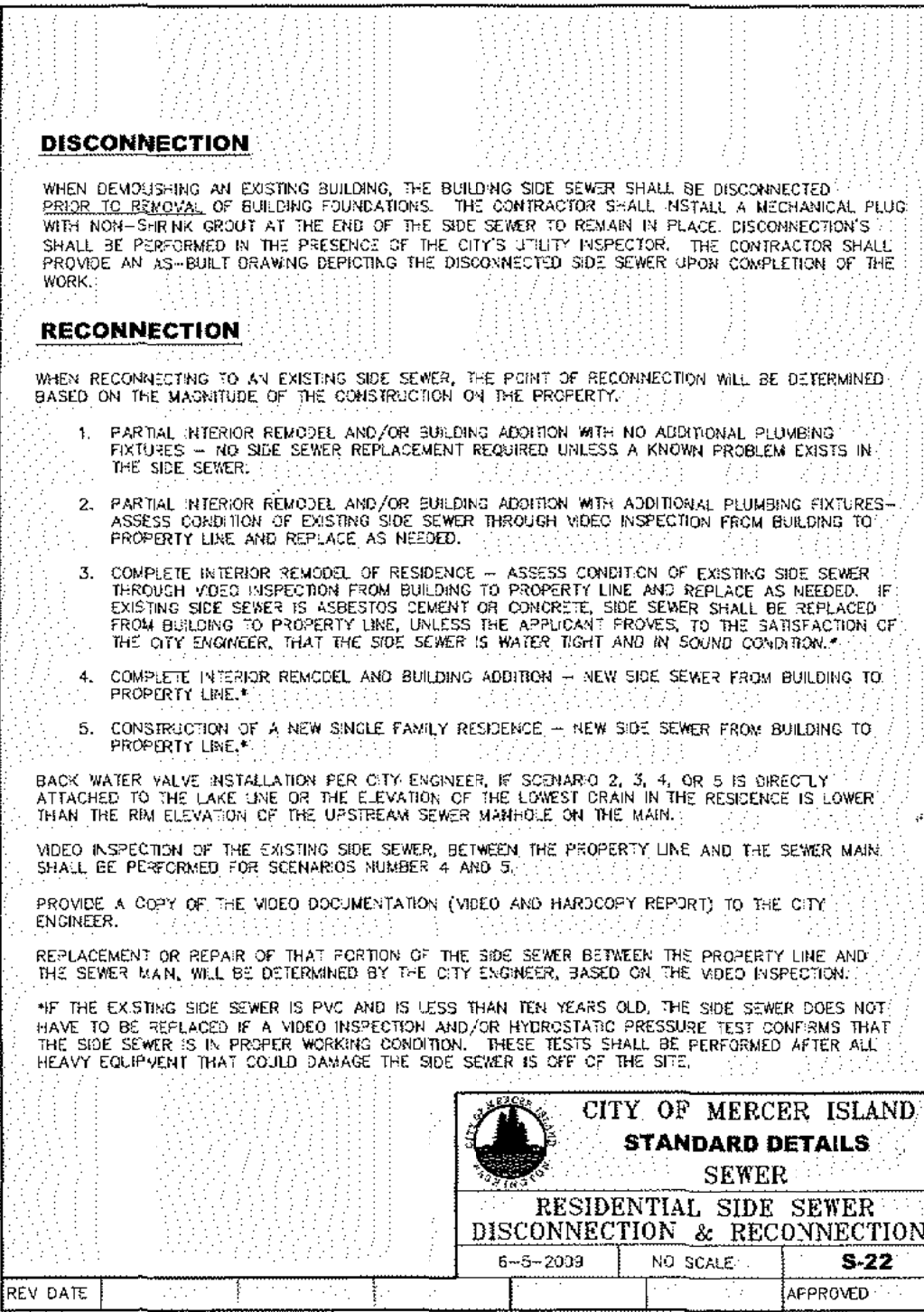
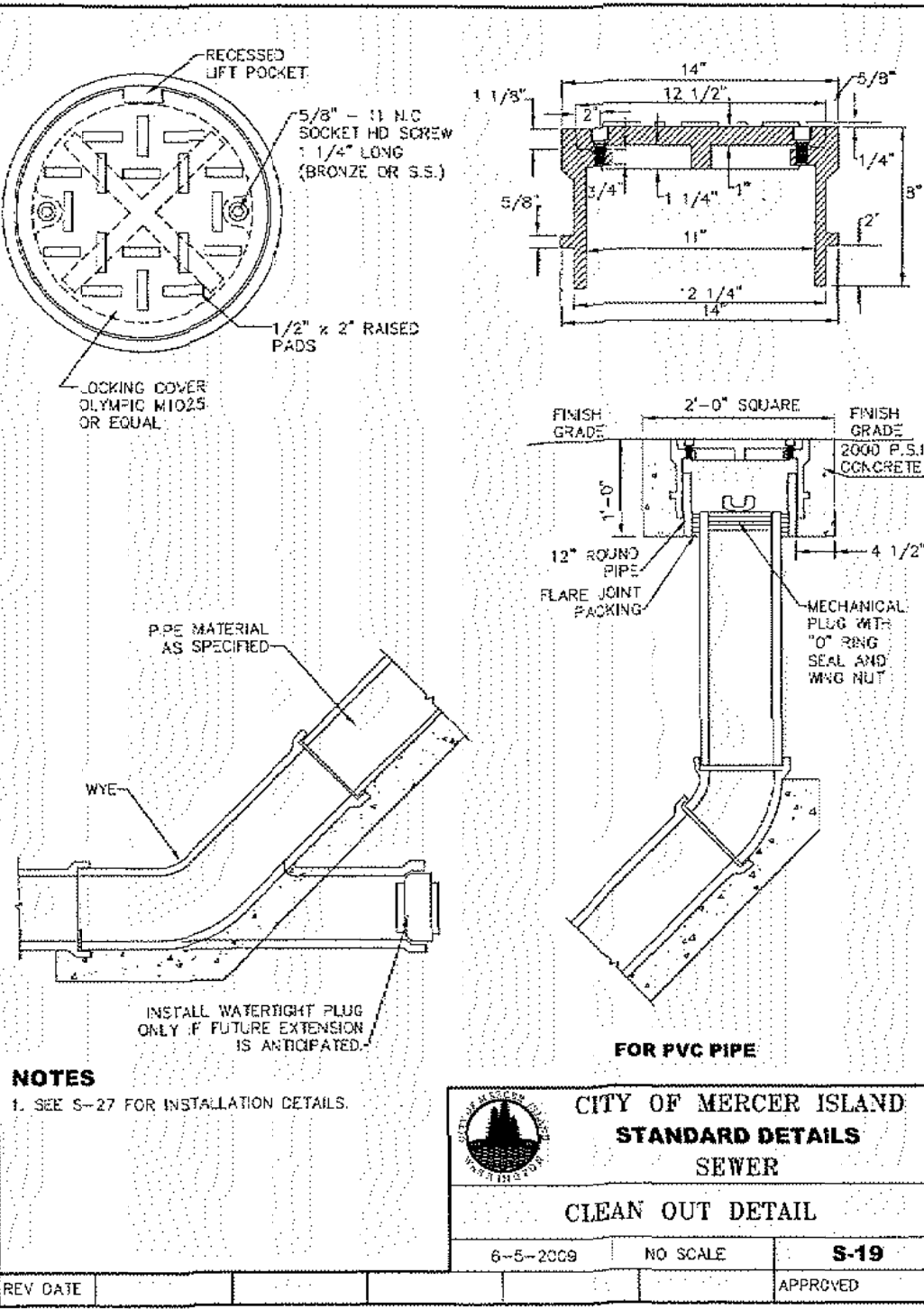
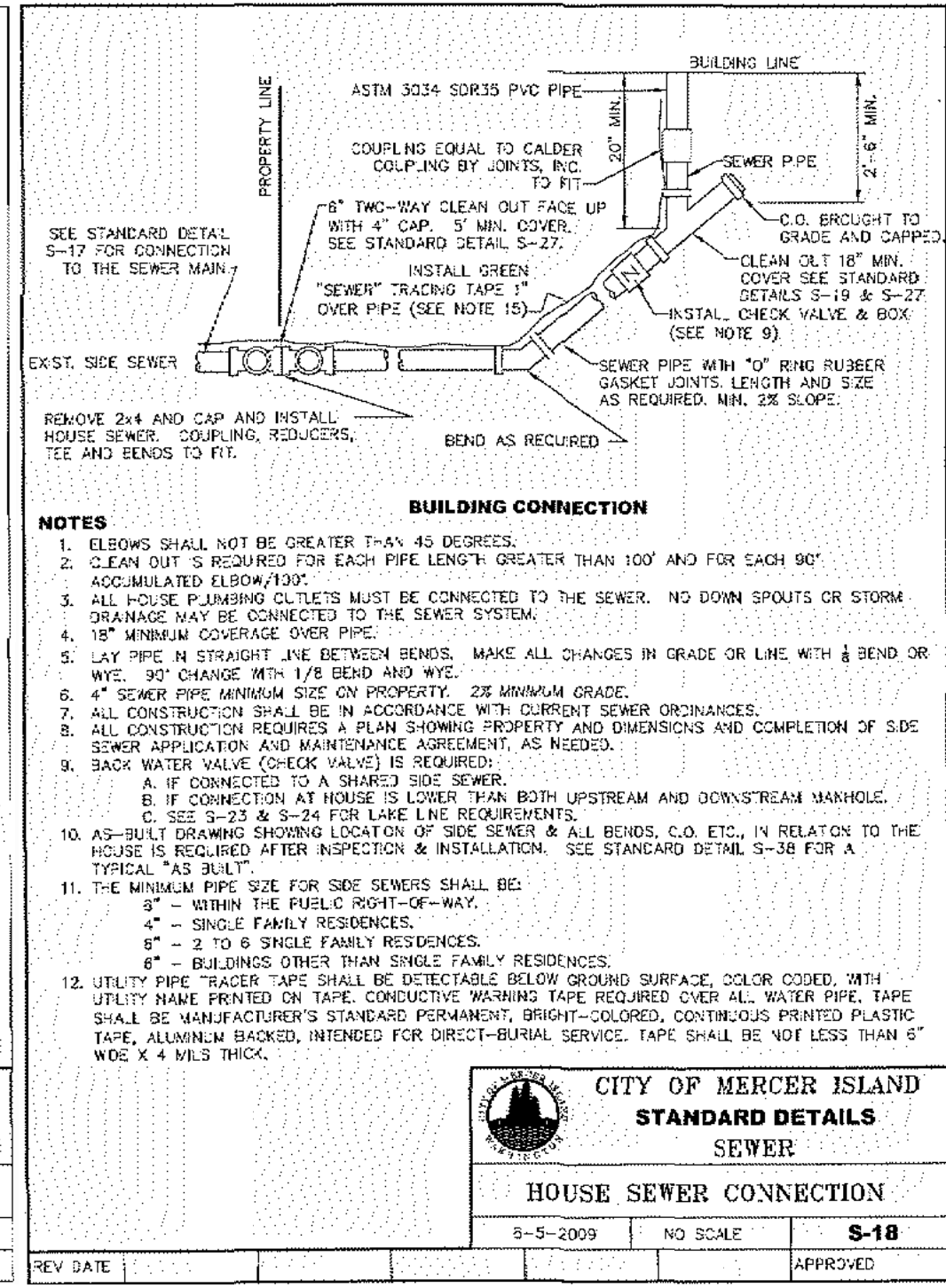
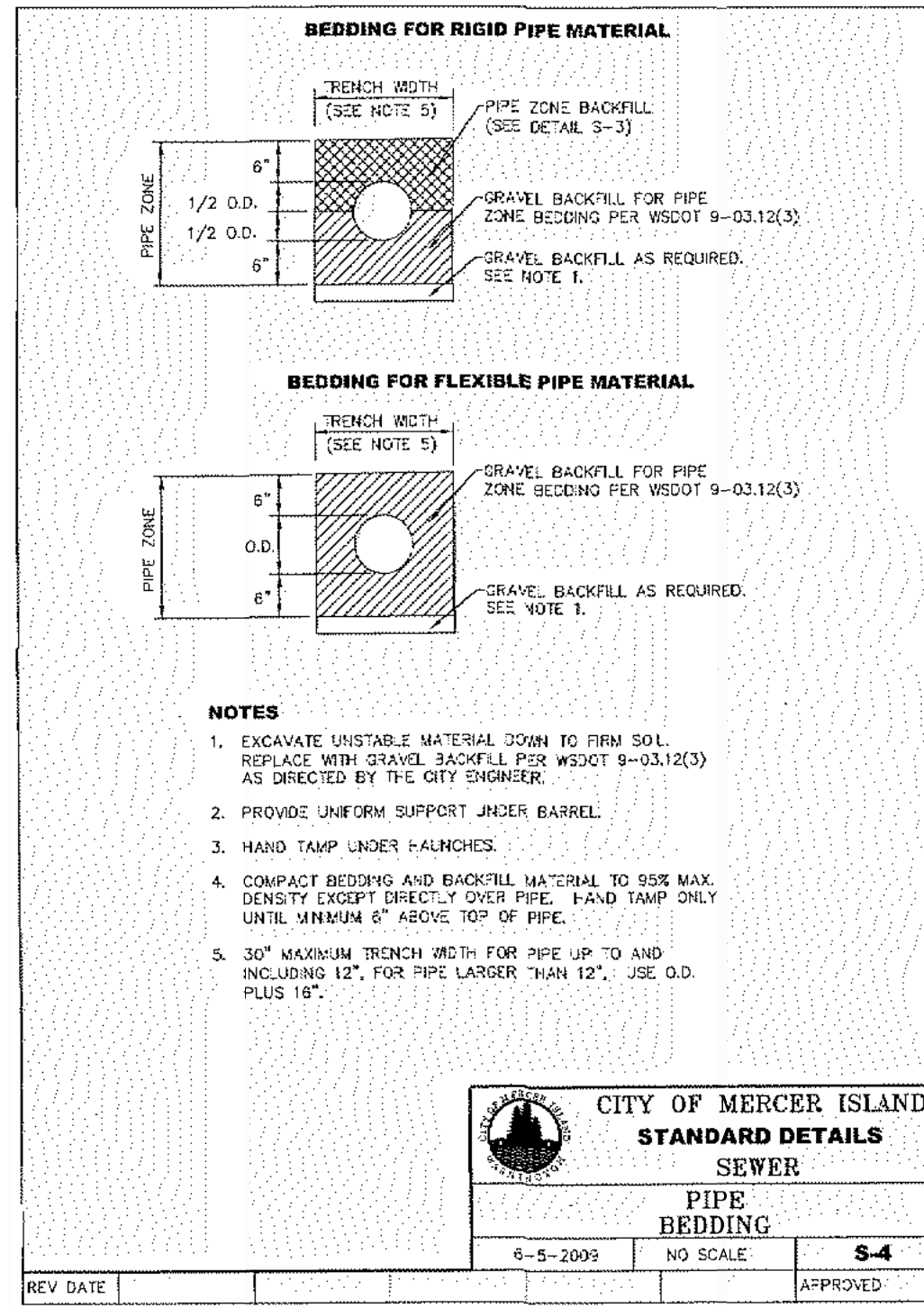
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LOT 2 BUILDING PERMIT
GRADING, PAVING, AND UTILITY PLAN
THE LADYBUG TRUST
OGDEN POINT RESIDENCE
BUILDING PERMIT

CITY OF MERCER ISLAND,
 WASHINGTON

DATE: _____
 REVIEWED BY: _____
 NO. DATE REVISION
 RICHARD A. TOMKINS, PE
 PROJECT MANAGER
 MARY McDONELL, PLS
 PROJECT SURVEYOR
 ADAM STROCKER, PE
 PROJECT ENGINEER
 PROJECT LANDSCAPE ARCHITECT
 FIRST SUBMITTAL DATE: _____
 SCALE: HORIZ. 1"=10' VERT. N/A

STAMP NOT VALID
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 JOB NO. **LDYB0002**
 SHEET NO. **C3 OF 4**



CONSTRUCTION SEQUENCE

- INSTALL NEW STORM DRAINAGE OUTFALL.
- INSTALL FILTER FENCE AND TREE PROTECTION FENCING AS SHOWN ON PLAN.
- REMOVE EXISTING STRUCTURES AND HARDSCAPE AND CLEAR TREES AND LANDSCAPING PER TEMPORARY EROSION AND SEDIMENT CONTROL PLAN, SHEET C2. EXISTING DRIVEWAY TO REMAIN TO PROVIDE ACCESS TO NEIGHBORING PROPERTY UNTIL NEW DRIVEWAY IS CONSTRUCTED.
- GRADE SITE, BUILD RETAINING WALLS, EXTEND STORM DRAINAGE AND INSTALL UTILITIES.
- INSTALL TEMPORARY EROSION CONTROL FILTER IN ALL CATCH BASINS AND AREA DRAINS WITH GRATES.
- MAINTAIN ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES UNTIL LANDSCAPING IS COMPLETE AND SITE IS STABILIZED.

triad

20300 Woodville Snohomish Rd NE
Suite A • Woodinville, WA 98072
p. 425.415.2000 f. 425.486.5059
w. triadassociates.net

WASHINGTON

NOTES AND DETAILS

THE LADYBUG TRUST

OGDEN POINT RESIDENCE

BUILDING PERMIT

CITY OF MERCER ISLAND

REVIEWED BY: [Signature] DATE: [Date]

PROJECT MANAGER: RICHARD A. TOMKINS, PE

PROJECT SURVEYOR: MARY MCCOMMELL, PLS

PROJECT ENGINEER: ADAM STROCKER, PE

PROJECT LANDSCAPE ARCHITECT: ADAM STROCKER, PE

FIRST SUBMITTAL DATE: [Date]

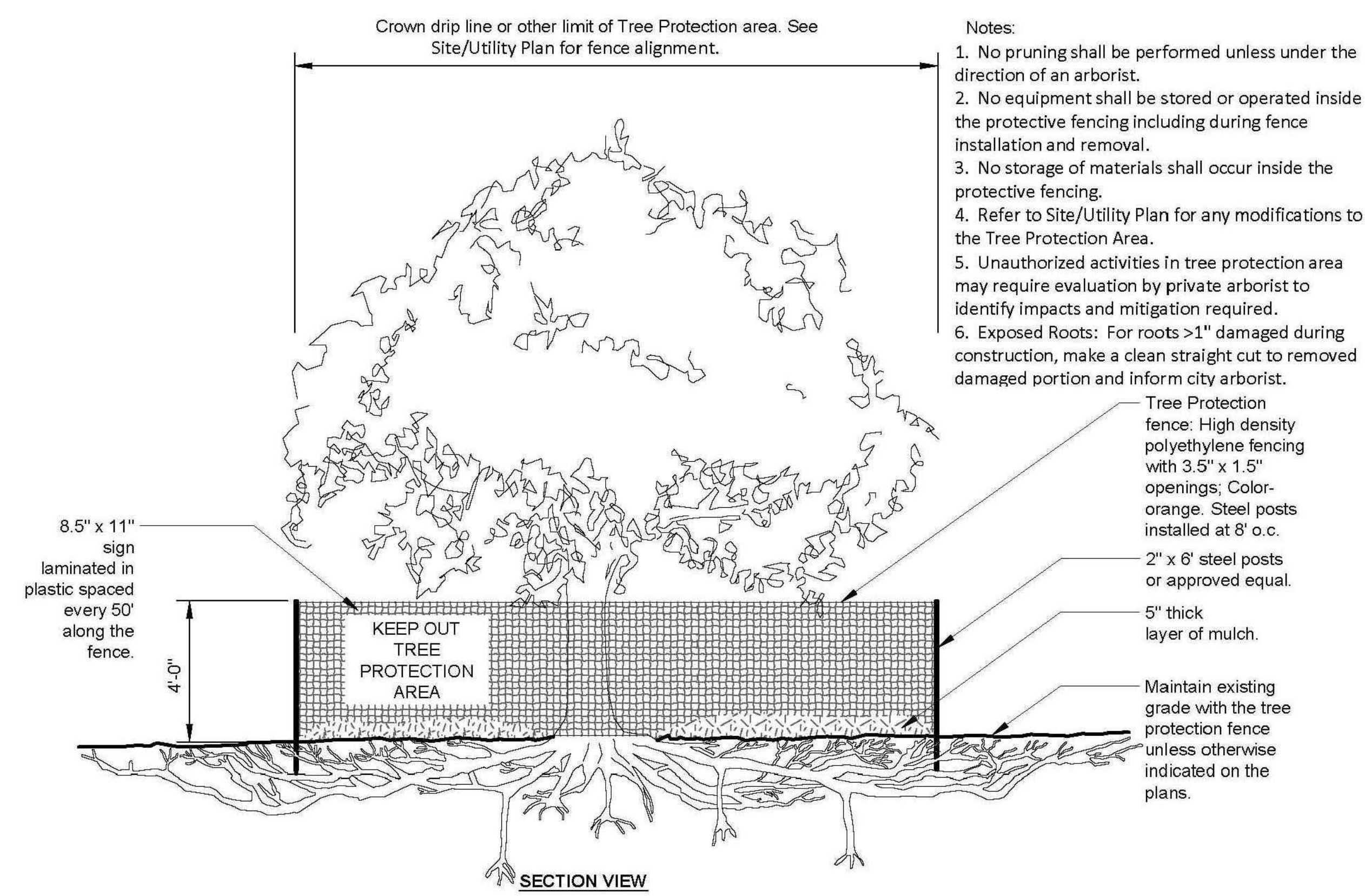
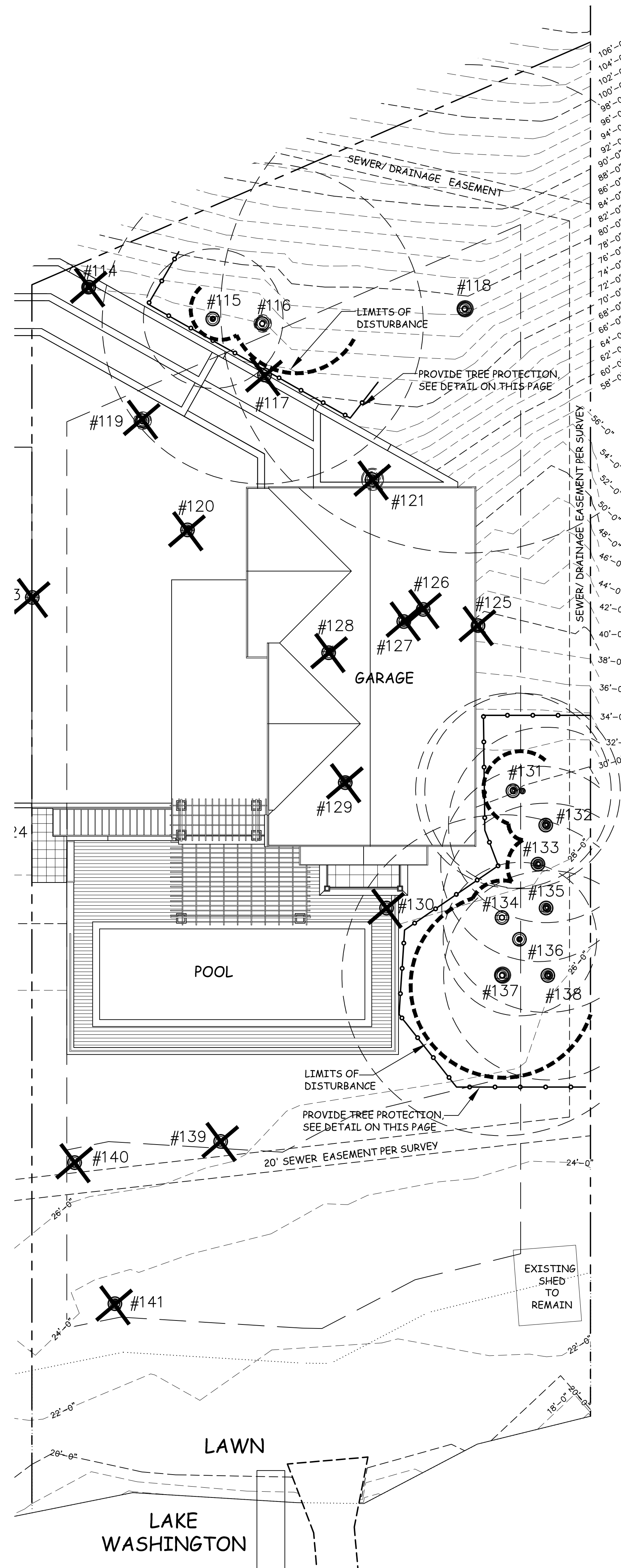
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STAMP NOT VALID UNLESS SIGNED AND DATED

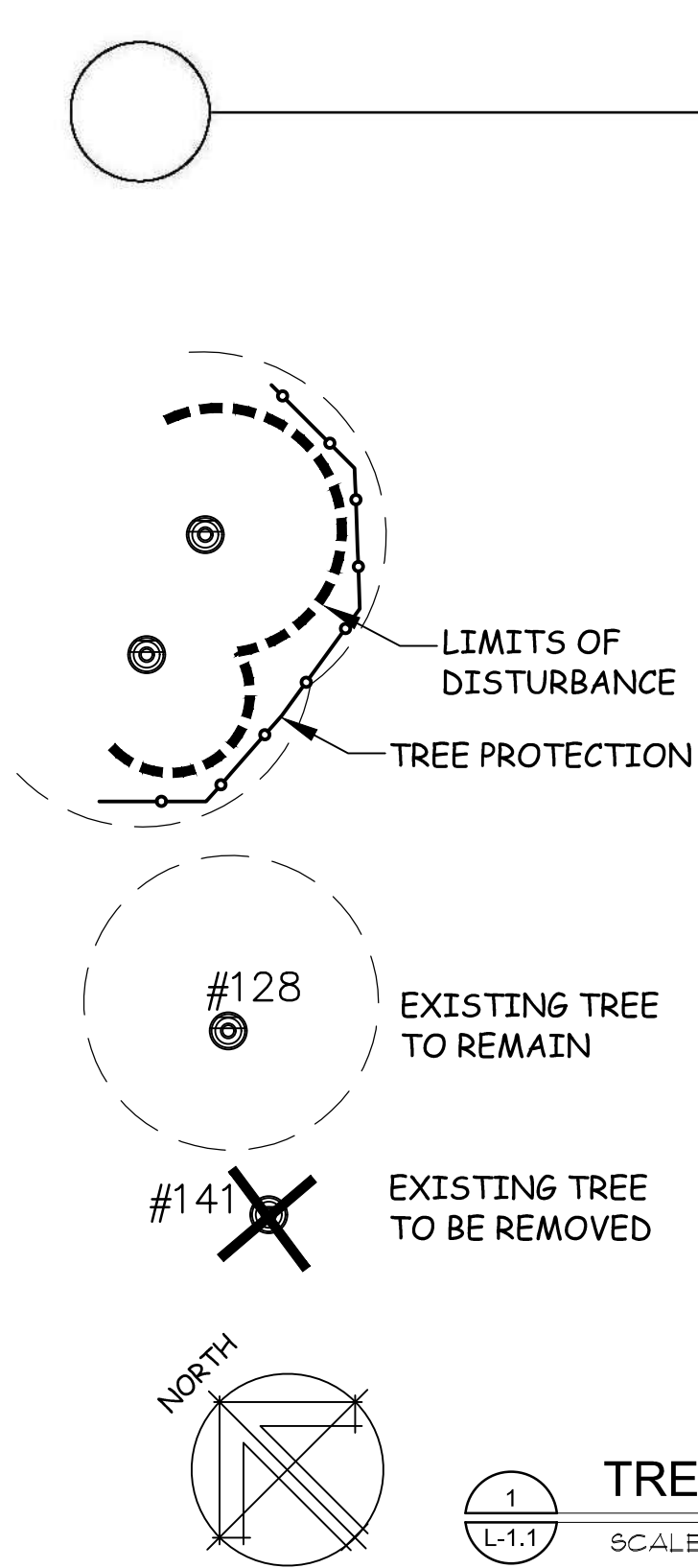
JOB NO. **LDYB0002**

SHEET NO. **C4** OF **4**

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- Notes:
1. No pruning shall be performed unless under the direction of an arborist.
 2. No equipment shall be stored or operated inside the protective fencing including during fence installation and removal.
 3. No storage of materials shall occur inside the protective fencing.
 4. Refer to Site/Utility Plan for any modifications to the Tree Protection Area.
 5. Unauthorized activities in tree protection area may require evaluation by private arborist to identify impacts and mitigation required.
 6. Exposed Roots: For roots >1" damaged during construction, make a clean straight cut to removed damaged portion and inform city arborist.



TREE REMOVAL FORM LOT 3

3675 west Mercer Way Lot Three
February 26, 2018

TREE NUMBER	TREE TYPE	CALIPER INCHES MULTI-TRUNK SHOWN WITH COMMA	NOTE/ REPLACEMENT TREE QUANTITY PER 19.10 11/17
114	CEDAR	26	6:1
117	MAPLE	16,14	6:1
119	DOUGLAS FIR	32	6:1
120	MADRONE	13,15	3:1
121	MADRONE	28,32	6:1
125	HORSE CHESTNUT	21	6:1
126	HORSE CHESTNUT	12	6:1
127	HORSE CHESTNUT	16,10,5	6:1
128	HORSE CHESTNUT	8,4	0
129	POPLAR	33,20	6:1
130	YELLOW WOOD	7,5,4	2:1
139	APPLE	3,4,4	0
140	MULBERRY?	3,3,4,4,5,5,5	2:1
141	APPLE	8,6,4	2:1
TOTAL TREES			57

TOTAL NUMBER OF TREES TO BE REPLACED: 12 WITH A MINIMUM OF 57 NEW TREES.
TREES PROVIDED; 31

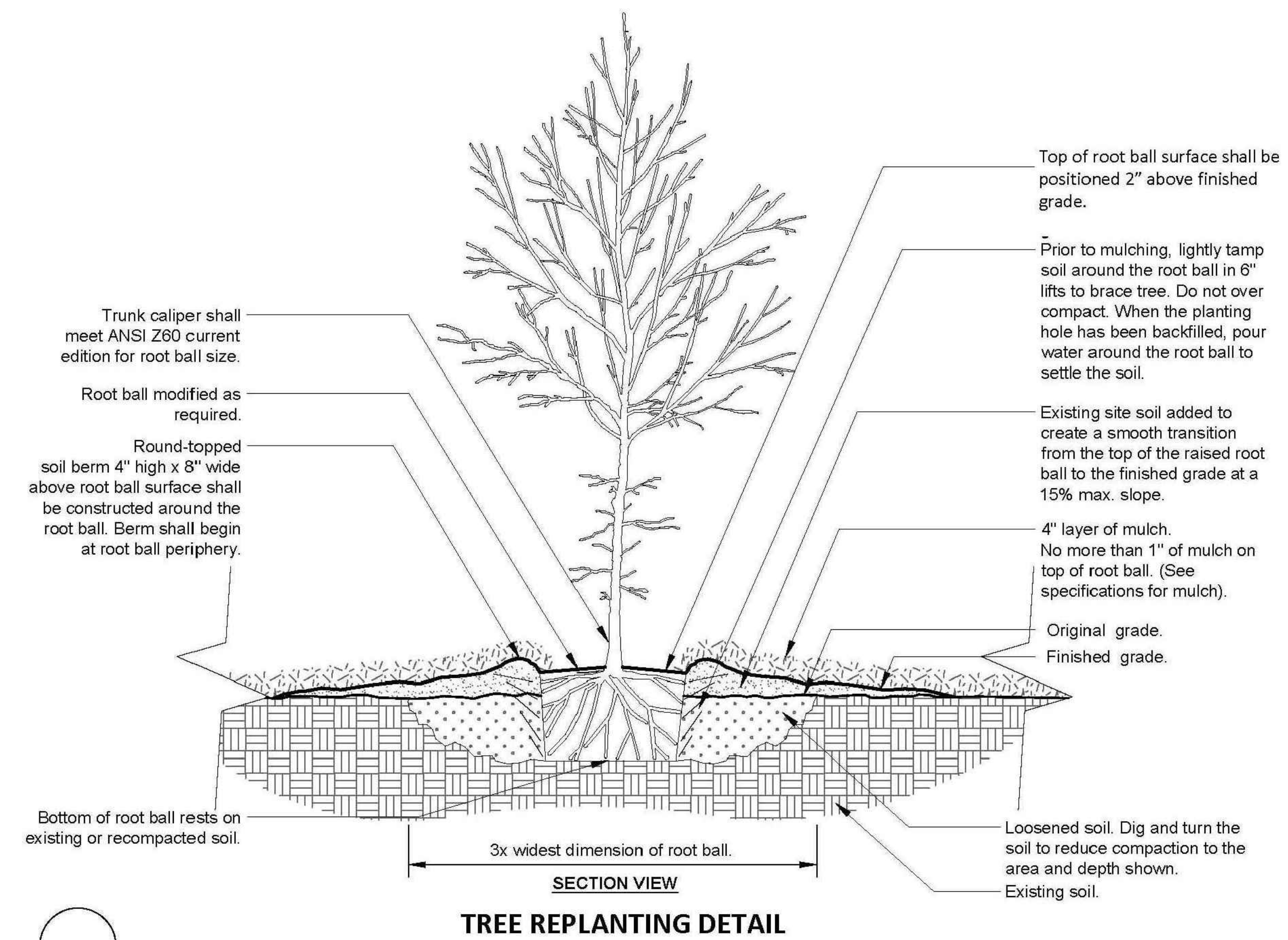
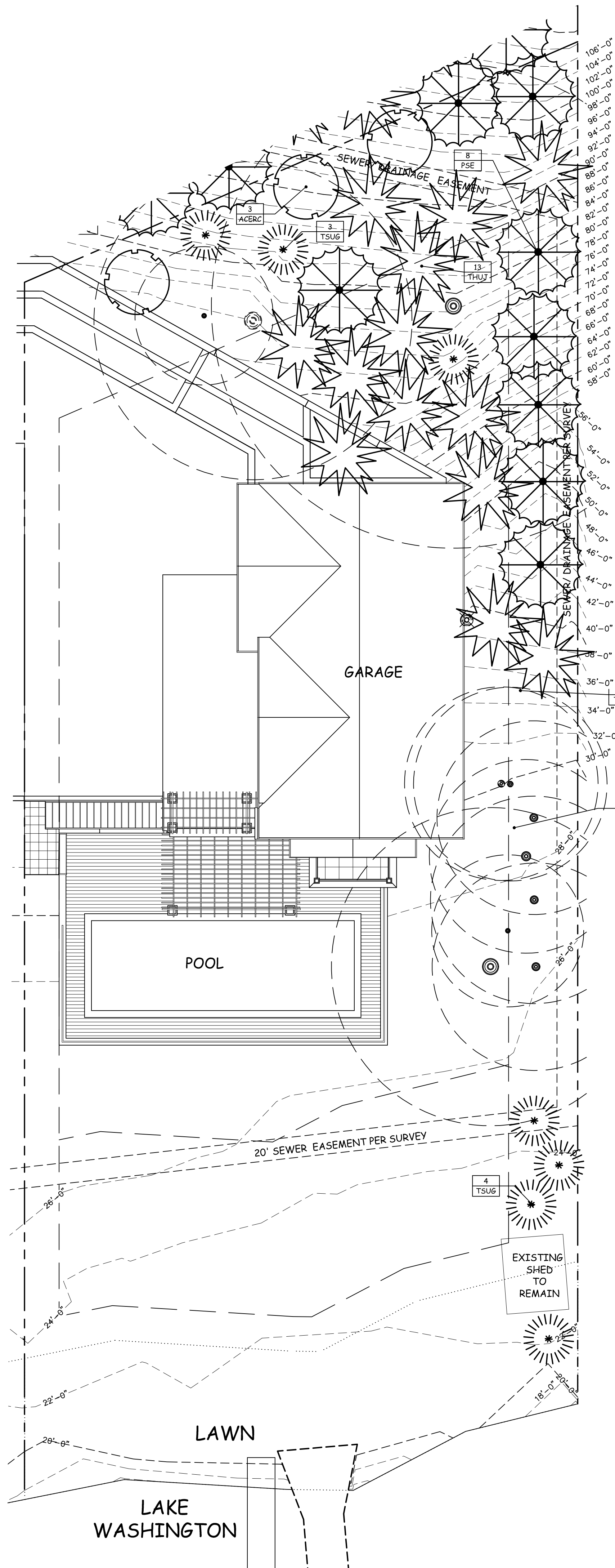


OGDEN POINT
3675 W. MERCER WAY
MERCER ISLAND, WASHINGTON

JOB NUMBER: _____
DRAWN: _____ KEL
CHECKED: _____
DATE: JULY 26, 2017
REVISIONS:
1 08/14/17 PLAN REVIEW
2 10/25/17 PLAN UPDATE
3 11/20/17 PLAN UPDATE
4 12/11/17 PLAN UPDATE
5 02/28/18 DOCK PERMIT

SHEET TITLE:
TREE REMOVAL PLAN LOT 03
PERMIT SET
SHEET NUMBER:

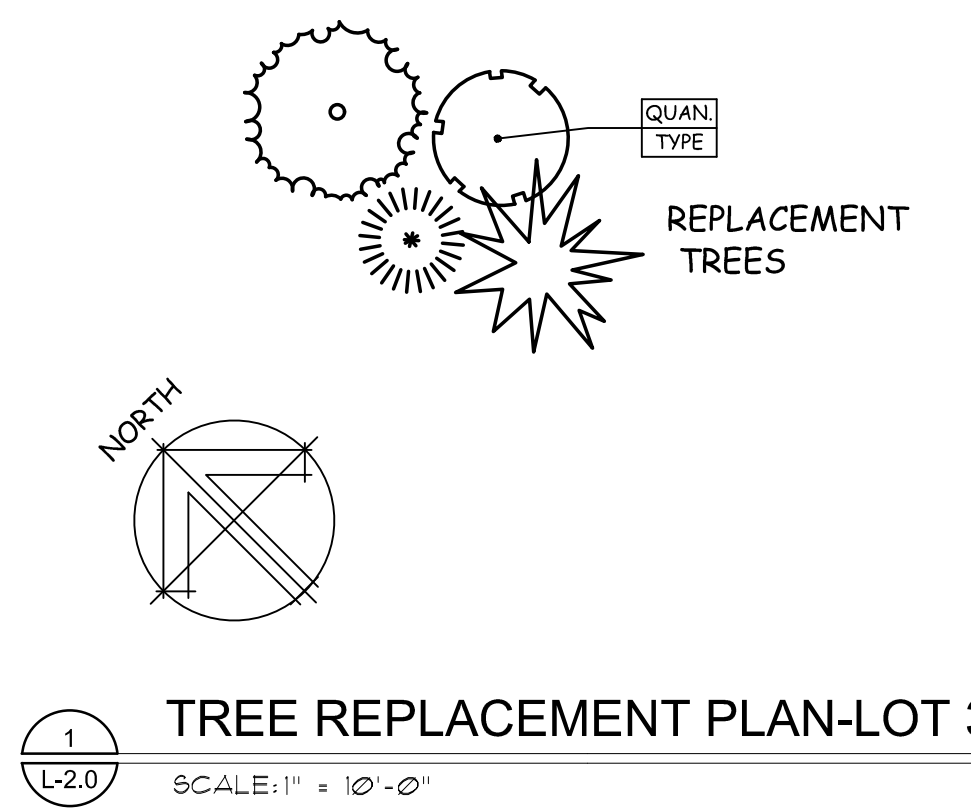
L-1.1



REPLACEMENT TREE PLANTINGS LOT 3

MINIMUM NUMBER OF REPLACEMENT TREES REQUIRED: 57, PROVIDED: 31

QUANTITY	SYMBOL	PLANT NAME	SIZE/SPACING
3	ACERC	ACER CIRCINATUM/ VINE MAPLE	6' MULTI-TRUNKED @ Nursery Trees.com Snohomish
8	PSE	PSEUDOTSUGA MENZEISII/ DOUGLAS FIR	5-6' B/B
13	THUJ	THUJA PLICATA/ WESTERN RED CEDAR	1-2' B/B
7	TSUGA	TSUGA HETEROPHYLLA/ LOWLAND HEMLOCK	4-5' B/B



KEN LARGE
Landscape Architect
21803 NE 17th Court
Sammamish, Wa. 98074
Office: 425-836-4578, Cell: 206-396-7617
E-mail: kila@comcast.net
FAX: 425-898-8923

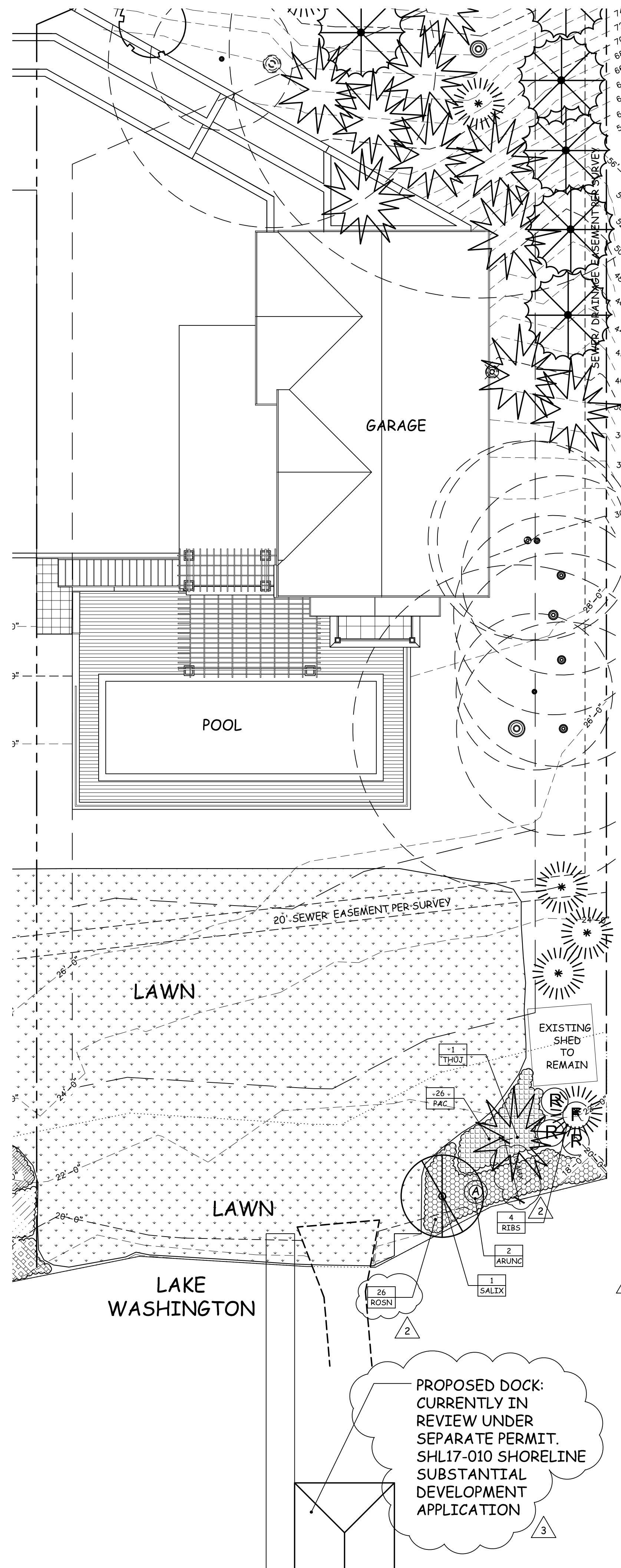


OGDEN POINT
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MERCER ISLAND, WASHINGTON

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4 12/11/17 PLAN UPDATE
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SHEET TITLE:
TREE REPLACEMENT PLAN LOT 3
PERMIT SET

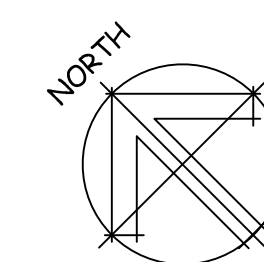
SHEET NUMBER:
L-2.1



SHORELINE PLANT LIST

April 11, 2017 October 21, 2017 *INDICATES NATIVE PLANT

QUAN	SYMBOL	PLANT NAME	SIZE SPACING COMMENT
2	ARNUC*	ARUNCUS DIOTICUS/ GOATSBEARD	1 GALLON CAN 18" TRI SP
26	ROSN*	ROSA NUTKANA/ NOOTKA ROSE	1 GALLON CAN OR 12-15" IF WINTER
26	PAC*	PACHISTIMA MYRSINITES/ OREGON BOXWOOD	1 GALLON CAN 24" TRI SP
4	RIBS*	RIBES SANGUINNEUM RED FLOWERING CURRENT	2 GALLON CAN
1	SALIX*	SALIX PURPUREA PURPLE WILLOW	1 GALLON CAN
1	THUJ*	THUJA PLICATA/ WESTERN RED CEDAR	5-6' B/B



1
L-3.1

SHORELINE PLANTING
SCALE: 1" = 10'-0"

KEN LARGE
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21803 NE 17th Court
Sammamish, Wa. 98074
Office: 425-836-4578, Cell: 206-396-7617
E-mail: kila@comcast.net
FAX: 425-898-8923

SEAL:



OGDEN POINT
3675 W. MERCER WAY
MERCER ISLAND, WASHINGTON

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DRAWN: _____ **KEL**
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3 11/20/17 PLAN UPDATE
4 12/11/17 PLAN UPDATE
5 02/28/18 DOCK PERMIT

SHEET TITLE:
SHORELINE PLANTING PLAN LOT 3 PERMIT SET

SHEET NUMBER:
L-3.1