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# LAND USE CODE COMPLIANCE STATISTICS ZONE:

11,630 SF EXISTING HOUSE & ROOF: 2413.1 SF EXISTING DRIVEWAY: EXISTING GRAVEL PARKING: 385.8 SF EXISTING TOTAL LOT COVERAGE: 3682.9 SF **NEW ADDITION:** 3745.9 SF (32.2%) PROPOSED LOT COVERAGE:

REAR SETBACK: 10' STREET SIDE, 5' INTERIOR SIDE SIDE SETBACK:

3 EXISTING PARKING SPACES TO REMAIN: 2 COVERED, 1 UNCOVERED PARKING:

REFER TO SHEET A2.0 AND A2.1 FOR DETAILED **INFORMATION:** HEIGHT INFORMATION

11630 SF X 40% = 4652 SF ALLOWED EXISTING F.A.R. = 3916.4 SF PROPOSED F.A.R = 4463.5 SF

**ENERGY CREDIT INFORMATION** 

ENERGY CREDIT FROM WASHINGTON STATE ENERGY CODE TABLE 406.2

MEDIUM DWELLING UNIT: 3.5 CREDITS

ALL DWELLING UNITS NOT INCLUDED IN SMALL OR LARGE.

PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING

VERTICAL FENESTRATION U = 0.28

BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

5a EFFICIENT WATER HEATING: 0.5 CREDITS

# SHEET INDEX

SITE PLAN SURVEY SURVEY HARDSCAPE AND IMPERVIOUS SURFACE DIAGRAM LOWER FLOOR DEMOLITION PLAN MAIN FLOOR DEMOLITION PLAN UPPER FLOOR DEMOLITION PLAN

MAIN FLOOR PLAN A1.5

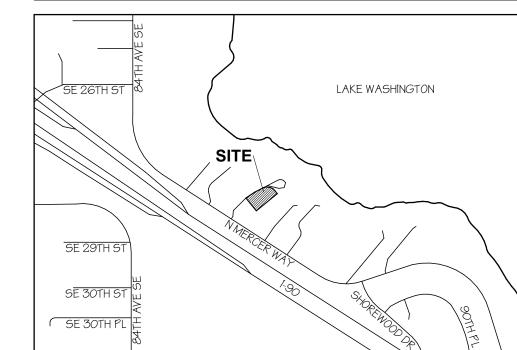
EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS BUILDING SECTIONS

WALL SECTION TYP. DETAILS A4.2

INTERIOR ELEVATIONS INTERIOR ELEVATIONS GENERAL STRUCTURAL NOTES

MAIN FLOOR FRAMING PLAN SECOND FLOOR FRAMING PLAN ROOF FRAMING PLAN

STRUCTURAL DETAILS STRUCTURAL DETAILS LOWER FLOOR ELECTRICAL PLAN



PROJECT OWNER: 8452 N MERCER WAY MERCER ISLAND WA 98040 PROJECT ARCHITECT: HEIDI HELGESON

PROJECT INFORMATION

PROJECT DESIGNER: LISA MONTALVO H2D ARCHITECTURE + DESIGN 23020 EDMONDS WAY, #113 EDMONDS, WA 98020

STRUCTURAL ENGINEER: TODD VALENTINE HARRIOTT VALENTINE ENGINEERS 1932 1ST AVENUE, SUITE 720

> SEATTLE, WA 98101 206-624-4762 X 27

HOME. ADD ADDITION. PROJECT ADDRESS:

TAX LOT NUMBER: 5452600010

PROJECT DESCRIPTION:

LOT COVERAGE:

LEGAL DESCRIPTION: MERCER PARK LANE TGW UND INT IN TRS A B C TGW 1/6 UND INT IN POR LOT 5 SD PLAT LY NLY OF FOLG DESC LN BEG AT NW COR LOT 5 TH N 73-54-57 E 67.31 FT TH N 41-48-01 E 112.82 FT TO TPOB TH S 61-41-59 E 15.43 FT TH N 41-48-01 E TO OUTER LIMITS

CRITICAL AREAS: TYPE 11 CULVERT WATER COURSE, POTENTIAL SLIDE, SEISMIC, AND EROSION HAZARD

OF 2ND CL SH LDS & TERMINUS OF SD LN, LOT 1

ALLOWED LOT COVERAGE: 11,630 SF X 40% = 4,652 SF...OK

\*\*REFER TO SHEET 02 FOR ADDITIONAL LAND USE CALCULATIONS

REQ'D SETBACKS:

BUILDING HEIGHT BUILDING HEIGHT LIMIT = 30'

1a EFFICIENT BUILDING ENVELOPE: 0.5 CREDITS

FLOOR R-38 SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB

3a HIGH EFFICIENCY HVAC EQUIPMENT: 1.0 CREDITS GAS, PROPANE, OR OIL-FIRED FURNACE WITH MINIMUM AFUE OF 94%

GAS. PROPANE. OR OIL-FIRED BOILER WITH MINIMUM AFUE OF 92%

ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0GPM OR

5c EFFICIENT WATER HEATING: 1.5 CREDITS GAS, PROPANE, OR OIL WATER HEATER WITH A MINIMUM EF OF 0.91

PROJECT INFORMATION, VICINITY MAP, GENERAL NOTES, AS-BUILT PLANS

LOWER FLOOR PLAN

UPPER FLOOR PLAN ROOF PLAN

WINDOW AND DOOR SCHEDULES

BUILDING SECTIONS WALL SECTIONS

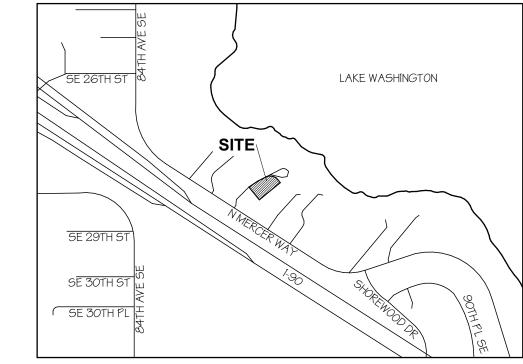
INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS

FOUNDATION PLAN

52.3 53.0

MAIN FLOOR ELECTRICAL PLAN UPPER FLOOR ELECTRICAL PLAN

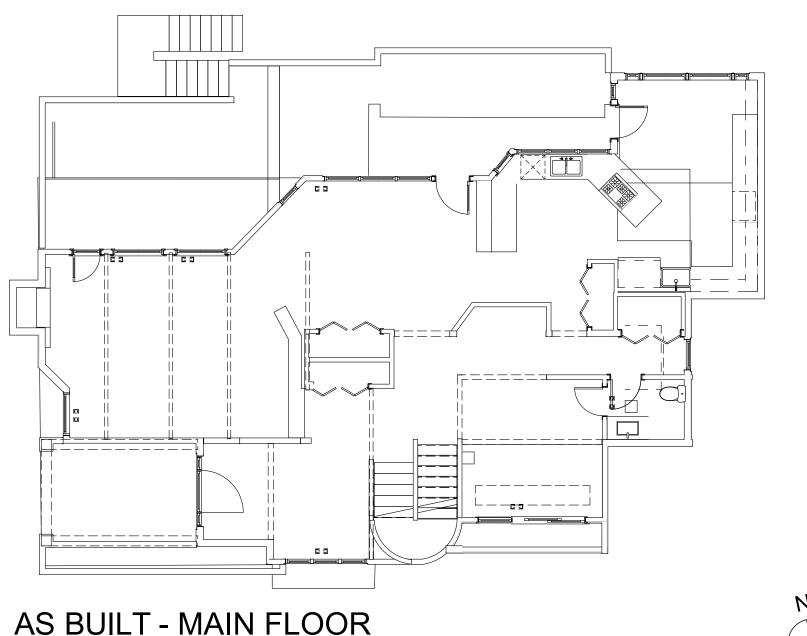
# VICINITY MAP (NTS)

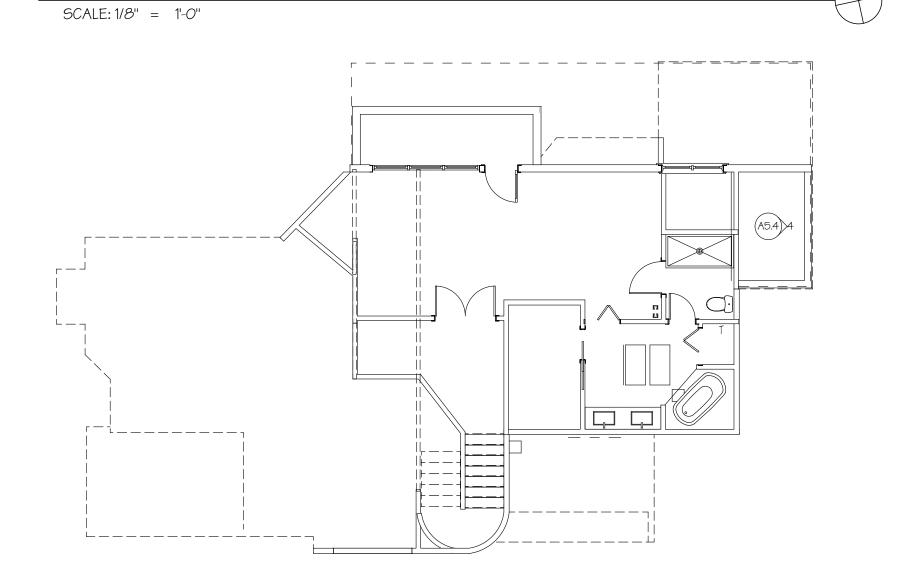


AS BUILT - LOWER FLOOR SCALE: 1/8" = 1-0"

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AS BUILT - UPPER FLOOR

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



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-CONSTRUCTION TO CONFORM TO THE 2015 INTERNATIONAL RESIDENTIAL CODE (IRC), WASHINGTON STATE LAWS AND REGULATIONS, CURRENT WASHINGTON STATE RESIDENTIAL

ENERGY CODE AND VARIOUS CODES IMPOSED BY LOCAL AUTHORITIES.

-A SEPARATE PERMIT MAY BE REQUIRED FOR PLUMBING, ELECTRICAL, AND/OR MECHANICAL WORK AS APPLICABLE. -A COPY OF THE APPROVED PERMIT PLANS MUST BE ON THE JOB SITE DURING CONSTRUCTION.

2. CONTRACTOR'S RESPONSIBILITY: -PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES. -DO NOT SCALE CONTRACT DOCUMENTS.

-IF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES ARE NOTED, ARCHITECT IS TO BE NOTIFIED IMMEDIATELY -ALL CHANGES MADE BY THE CONTRACTOR SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. -THE ARCHITECT SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PRECAUTIONS, ACTS OR

-CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE AND WEATHERPROOFING OF THE ENTIRE BUILDING, IT'S COMPONENT EQUIPMENT, AND PARTS.

-ALL STRUCTURAL SYSTEMS SUCH AS WOOD 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 SUPPLER. -ALL WORK MUST FOLLOW CURRENT RRP RULES AND REQUIREMENTS AS DEFINED BY THE EPA AND THE STATE OF WASHINGTON.

-ALL WASTE AND REFUSE CAUSED IN CONNECTION WITH THE WORK SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF BY THE CONTRACTOR. THE PREMISES SHALL BE LEFT CLEAR AND CLEAN TO THE SATISFACTION OF THE OWNER. -CONTRACTOR SHALL DESIGN AND INSTALL SHORING AS REQUIRED TO PERFORM WORK. ENGINEERING, CONSTRUCTION AND SAFETY OF THE SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

-FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 2,000 PSF OR PER GEOTECHNICAL REPORT. ALL FOOTINGS SHALL BE CAST ON UNDISTURBED FIRM NATURAL SOIL OR COMPACTED SOIL OF 2,000 PSF BEARING CAPACITY AT LEAST 1-6" BELOW LOWEST ADJACENT GRADE, AND FREE OF ORGANIC MATERIALS. FOOTING EXCAVATION SHALL BE FREE OF LOOSE SOILS, DEBRIS, AND FREE WATER AT ALL TIMES. THIS OFFICE TAKES NO RESPONSIBILITY IN VERIFYING THE ACCURACY OF ENGINEERING DATA SUPPLIED

GENERAL NOTES

4. ATTIC REQUIREMENTS: -APPLY ROOFING IN ACCORDANCE WITH IRC CHAPTER 9. PROVIDE ATTIC VENTILATION AS INDICATED ON DRAWINGS AND AS OUTLINED IN IRC SEC R806. -THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED, EXCEPT THAT THE AREA MAY BE 1/300 PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATION LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OF

-ATTIC ACCESS: MINIMUM 22" x 30" WITH MINIMUM 30" HEADROOM, UNOBSTRUCTED, READILY ACCESSIBLE OPENING. IRC SEC R807. ACCESS DOORS SHALL BE WEATHERSTRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. -IN ROOMS NOT PROVIDED WITH AN OPERABLE WINDOW OF 1.5 SQ. FT. OR GREATER, A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING 5 AIR CHANGES PER HOUR SHALL BE

# -VENT DRYER, BATH FANS, AND RANGES/OVENS TO THE OUTSIDE.

5. **VENTILATION:** -VENT FANS SHALL TERMINATE AT THE EXTERIOR OF THE BUILDING PER IRC SECTION M1502.3 AND IMC SECTION 501.3.

CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. (IRC SEC R806).

-INSULATE ALL DUCTS OUTSIDE OF CONDITIONED SPACE PER WA STATE ENERGY CODE. -KITCHEN RANGE HOODS: RANGE HOODS CAPABLE OF EXHAUSTING MORE THAN 400 CFM REQUIRE MAKE-UP AIR PER IRC M1503.4.

-TO BE IN COMPLIANCE WITH IRC SEC R308 AND WASHINGTON STATE SAFETY GLASS LAW, EXCEPTIONS ARE AS OUTLINED IN IRC SEC R308. -GLAZING IN LOCATIONS SUBJECT TO HUMAN IMPACT SUCH AS GLASS IN DOORS, GLAZING WITHIN 24" ON EITHER SIDE OF A DOOR OPENING, GLAZING CLOSER THAN 18" TO A FLOOR, SHOWER DOORS AND TUB ENCLOSURES SHALL BE WIRE REINFORCED, TEMPERED GLASS, LAMINATED SAFETY GLASS OR SHATTER RESISTANT PLASTIC. -SLIDING GLASS DOORS TO BE SAFETY GLAZING, LAMINATED OR TEMPERED GLASS.

SHOWER ENCLOSURES SHALL BE APPROVED WIRE REINFORCED, TEMPERED OR LAMINATED SAFETY GLASS OR SHATTER RESISTANT PLASTIC. -GLAZING WITHIN 18" OF FLOOR AND GREATER THAN 18" IN LEAST DIMENSION SHALL COMPLY WITH IMPACT LOADS. SEE PLANS.

-ALL EXTERIOR WALL GLAZING SHALL BE DOUBLE GLAZED, UNLESS NOTED OTHERWISE, AND COMPLY WITH STATE OF WASHINGTON ENERGY CODE. -EGRESS IN EVERY SLEEPING ROOM SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24", MINIMUM NET CLEAR OPENING WIDTH OF 20" AND A FINISHED SILL HEIGHT NOT MORE THAN 44" ABOVE THE FLOOR. IRC SEC R310.

7. ENERGY: -ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO IRC REQUIREMENTS AND THE WASHINGTON STATE ENERGY CODE, LATEST EDITION. VERIFY ALL CONDITIONS

-APPLICATION AND INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS. -BUILDING AIR LEAKAGE TESTING, PER SEC 502.4.5, IS REQUIRED PRIOR TO FINAL INSPECTION. THE TEST RESULTS SHALL BE POSTED ON THE RESIDENTIAL ENERGY COMPLIANCE

-EACH DWELLING UNIT IS TO HAVE ONE PROGRAMMABLE THERMOSTAT FOR REGULATION OF TEMPERATURE PER SEC 503.8.1. A SIGNED AFFADAVIT DOCUMENTING THE DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO AN APPROVED FINAL INSPECTION. -DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO AN APPROVED FINAL INSPECTION. MINIMUM 75% OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH EFFICACY LAMPS PER SEC 404.1.

-WHERE THE PRIMARY HEATING SYSTEM IS A FORCED-AIR FURNACE, AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY. THE THERMOSTAT SHALL ALLOW FO, AT A MINIMUM, A 5-2 PROGRAMMABLE SCHEDULE (WEEKDAYS/WEEKENDS) AND BE CAPABLE OF PROVIDING AT LEAST TWO PROGRAMMABLE SETBACKS PER DAY.

-MINIMUM HEADROOM 6'-8"; MINIMUM TREAD 10"; MAXIMUM RISER 7 3/4"

-HANDRAIL: REQUIRED AT ALL STAIRS WITH MORE THAN 4 RISERS PER IRC 311.7.8. MINIMUM 34" AND MAXIMUM 38" ABOVE TREAD NOSING. OPEN SIDES OF STAIRS MORE THAN 30" ABOVE ADJACENT FLOOR SHALL HAVE HANDRAILS AND GUARDRAILS. HANDRAIL TO BE 11/4"-2" CROSS SECTIONAL DIMENSION AND 11/2" AWAY FROM WALL -GUARDRAIL: SHALL BE MIN 36" IN HEIGHT WHERE ADJACENT SURFACE OR GRADE IS 30" OR MORE BELOW. RAILINGS SHALL BE SPACED TO NOT ALLOW THE PASSAGE OF A 4"

INSTALL FIRE BLOCKING AT MID-STRINGER SPAN AND AT WALL ALIGN STRINGER. -COVER WALLS AND SOFFITS OF USABLE SPACE UNDER STAIR WITH 5/8" TYPE "X" GYPSUM WALLBOARD.

- INSTALL FIRE SPRINKLER SYSTEM TO ALL AREAS OF DWELLING UNIT. DESIGN TO BE PROVIDED BY OTHERS.

-INSULATION TO MEET THE CURRENT WASHINGTON STATE ENERGY CODE REQ'TS FOR TABLE R402.1.1, TABLE R402.1.3 AND SECTION R402. REFER TO PRESCRIPTIVE TABLE ON SHEET

-EXISTING WALLS THAT ARE OPENED DURING A REMODEL TO BE INSULATED WITH R-21 BATT (FOR 2x6 WALLS) AND R-15 HIGH DENSITY BATT (FOR 2x4 WALLS) UNLESS NOTED -WALLS TO BE INSULATED WITH MINIMUM R-21 INSULATION. BELOW GRADE WALLS TO BE INSULATED WITH MINIMUM R-21 INSULATION, ALLOW FOR THERMAL BREAK BETWEEN FLOOR SLAB AND BASEMENT WALL UNLESS NOTED OTHERWISE.

-ROOF AND CEILING INSULATED WITH R-49 BLOWN-IN AT FLAT CEILINGS AND R-38 H.D. BATT AT VAULTED AREAS UNLESS NOTED OTHERWISE -ROOF: ALLOW FOR A MINIMUM 1" CLEAR BETWEEN TOP OF INSULATION AND BOTTOM OF SHEATHING FOR VENTING UNLESS NOTED OTHERWISE. -VENTING IS REQUIRED IN EACH JOIST SPACE. WHERE CONTINUOUS VENTING WITH A JOIST SPACE IS INTERRUPTED BY A HEADER (FOR EXAMPLE AT A SKYLIGHT OR HIP). PROVIDE (2) 1 1/2" VENTING HOLES AT THE TOP OF THE RAFTER AT THE HEADER TO ALLOW FOR CONTINUOUS THRU-VENTING INTO THE NEXT JOIST SPACE UNLESS NOTED OTHERWISE.

-FLOORS: INSULATED WITH R-30 BATT INSULATION OVER UNHEATED SPACE UNLESS NOTED OTHERWISE. -SLAB-ON-GRADE: PROVIDE EXTRUDED RIGID CLOSED CELL R-10 INSULATION. INSULATION TO PROVIDE THERMAL BREAK BETWEEN SLAB AND FOOTING AND RUN FROM THE TOP OF THE SLAB TO THE BOTTOM OF THE FOOTING. INSULATION MAY BE INTERRUPTED FOR 6" EVERY 2'-0" TO ALLOW FOR DOWELING TO TIE SLAB AND FOOTING TOGETHER. UNLESS NOTED

# OTHERWISE

14. FIRE SPRINKLERS

PROTECTION STANDARD (NFPA) 13D SYSTEM

-REQUIRES 1/2" GWB ON THE GARAGE SIDE. 5/8" TYPE 'X' GWB WHERE THERE IS LIVING SPACE ABOVE. SUPPORTING COLUMNS, WALLS AND BEAMS USE 1/2" GWB PER IRC R302.6 -OPENINGS INTO A GARAGE: OPENINGS INTO A GARAGE SHALL HAVE A SOLID WOOD OR HONEYCOMB-CORE STEEL DOOR NOT LESS THAN 1-3/8" THICK, OR 20-MINUTE FIRE RATING. DOORS SHALL BE EQUIPPED WITH A SELF-CLOSING DEVICE PER IRC R302.5.1.

11. VAPOR BARRIERS: -AN APPROVED VAPOR BARRIER SHALL BE INSTALLED AT EXTERIOR WALLS AND AT ALL ROOF DECKS, BELOW ENCLOSED JOIST SPACES WHERE CEILING FINISHES ARE DIRECTLY INSTALLED TO JOISTS, AND ANY OTHER WALL OR CEILING SURFACES WHICH RECEIVE INSULATION. THIS VAPOR BARRIER MAY BE A COMPONENT OF THE INSULATION MATERIAL. APPLICATION AND INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS.

-SMOKE ALARMS/DETECTORS (S.D.): SMOKE ALARMS/DETECTORS SHALL BE INSTALLED IN ALL SLEEPING ROOMS, IN THE AREA OUTSIDE THE SLEEPING ROOM AND IN OTHER LOCATIONS PER IRC R314. POWER SOURCE AND INTERCONNECTION PER IRC. -CARBON MONOXIDE DETECTORS (C.M.D.): SHALL HAVE AN APPROVED CARBON MONOXIDE ALARM INSTALLED OUTSIDE OF EACH SLEEPING AREA IN DWELLING UNITS AND IN EACH LEVEL

IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS PER IRC315. SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH UL2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH THIS CODE, NFPA 720-2012 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. -CARBON MONOXIDE DETECTION SYSTEMS PER IRC 315.2 THAT INCLUDE CARBON MONOXIDE DETECTORS AND AUDIBLE NOTIFICATION APPLIANCES, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THIS SECTION FOR CARBON MONOXIDE ALARMS AND NFPA 720-2012, SHALL BE PERMITTED. THE CARBON MONOXIDE DETECTORS SHALL BE LISTED AS COMPLYING

WITH UL 2075. WHERE A HOUSEHOLD CARBON MONOXIDE DETECTION SYSTEM IS INSTALLED, IT SHALL BECOME A PERMANENT FIXTURE OF THE OCCUPANCY. - A PERMANENT CERTIFICATE SHALL BE COMPLETED AND POSTED ON OR WITHIN THREE FEET OF THE ELECTRICAL DISTRIBUTION PANEL BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL. THE CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL AND SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL, OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF WALLS, FOUNDATION (SLAB, BELOW-GRADE WALL, AND/OR FLOOR) AND DUCTS OUTSIDE CONDITIONED SPACES; U-FACTORS FOR FENESTRATION AND THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON THE BUILDING. WHERE THERE IS MORE THAN ONE VALUE FOR EACH COMPONENT, THE CERTIFICATE SHALL LIST THE VALUE COVERING THE LARGEST AREA. THE CERTRIFICATE SHALL LIST THE TYPES OF EFFICIENCIES OF HEATING, COOLING, AND SERVICE WATER HEATING

EQUIPMENT. THE BUILDING OR DWELLING UNIT SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING 5 AIR CHANGES PER HOUR. TESTING SHALL BE CONDUCTED WITH A BLOWER DOOR AT A PRESSURE OF 0.2 INCHES W.G. (50 PASCALS). WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE.

SPRINKLERS SHALL BE LISTED RESIDENTIAL SPRINKLERS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE SPRINKLER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE SPRINKLER SYSTEM SHALL BE DESIGNED BY A WASHINGTON STATE CERTIFIED SPRINKLER DESIGNER AND INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE

PRESCRIPTIVE REQUIREMENTS - ALL CLIMATE ZONES					
LOCATION	R-VALUE	U-FACTOR			
FENESTRATION U-FACTOR	N/A	0.30			
SKYLIGHT U-FACTOR	N/A	0.50			
GLAZED FENESTRATION SHGC	N/A	N/A			
CEILING	49	0.026			
WOOD FRAME WALL	21 INT	0.056			
MASS WALL R-VALUE	21/21	0.056			
FLOOR	30/38	0.029			

BELOW GRADE WALL

SLAB R-VALUE AND DEPTH

10/15/21 INT + TB

10,2 FT

0.042

ARCHITECTURE

D E S I G N

23020 EDMONDS WAY, #113

EDMONDS, WA 98020

P. 206.542.3734

www.h2darchitects.com

DATE: 7/26/2019

PERMIT SET

PROJECT INFORMATION, VICINITY MAP, GENERAL NOTES, AS-BUILT PLANS



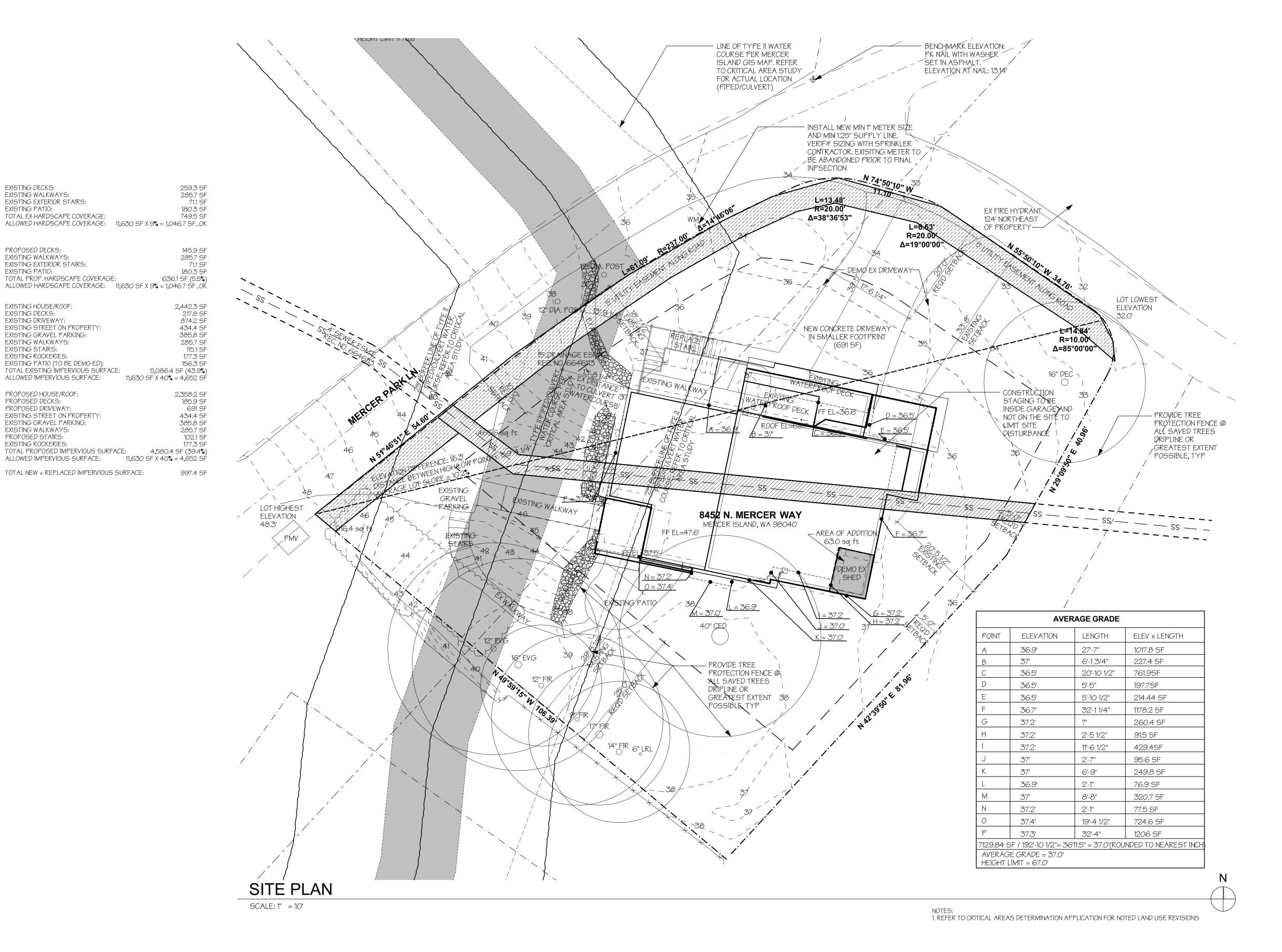
ARCHITECT U R E D E S I G N

23020 EDMONDS WAY, #113 EDMONDS, WA 98020 P.206.542.3734 www.h2darchitects.com

DATE: 7/26/2019

PERMIT SET

SITE PLAN



EXISTING DECKS: EXISTING WALKWAYS:

PROPOSED DECKS: EXISTING WALKWAYS:

EXISTING HOUSE/ROOF:

EXISTING WALKWAYS:

EXISTING STAIRS:

EXISTING ROCKERIES:

PROPOSED HOUSE/ROOF: PROPOSED DECKS:

PROPOSED DRIVEWAY:

PROPOSED STAIRS:

EXISTING ROCKERIES:

EXISTING STREET ON PROPERTY:

EXISTING PATIO (TO BE DEMO-ED):

EXISTING STREET ON PROPERTY:

ALLOWED IMPERVIOUS SURFACE:

TOTAL NEW + REPLACED IMPERVIOUS SURFACE:

EXISTING GRAVEL PARKING: EXISTING WALKWAYS:

TOTAL EXISTING IMPERVIOUS SURFACE: ALLOWED IMPERVIOUS SURFACE: 1

EXISTING GRAVEL PARKING:

EXISTING DECKS: EXISTING DRIVEWAY:

EXISTING PATIO:

EXISTING IMPERVIOUS SURFACE:

PROPOSED IMPERVIOUS SURFACE:

EXISTING EXTERIOR STAIRS:

EXISTING PATIO:

EXISTING EXTERIOR STAIRS:

TOTAL EX HARDSCAPE COVERAGE:

# LEGAL DESCRIPTION

(PER STATUTORY WARRANTY DEED REC. NO. 20150528001341) LOT 1, MERCER PARK LANE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 92 OF PLATS, PAGE 37, IN KING COUNTY,

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

# BASIS OF BEARINGS

N 51°46'51" E ALONG THE MONUMENTED CENTERLINE OF MERCER PARK LANE PER NAD 1983/91, WASHINGTON STATE PLANE COORDINATES, NORTH ZONE.

# REFERENCES

R1 MERCER PARK LANE, RECORDED IN VOLUME 92 OF PLATS, PAGE 37, RECORDS OF KING COUNTY, WASHINGTON. R2 SUNNYBANK, RECORDED IN VOLUME 29 OF PLATS, PAGE 31, RECORDS OF KING COUNTY, WASHINGTON.

# VERTICAL DATUM

NAVD(88) PER CITY OF MERCER ISLAND BENCHMARK NO. 9609 FOUND 2.5" DIA. CONC. FILLED IRON PIPE W/ TACK, FOUND ON CENTERLINE OF N. MERCER WAY @ WEST END OF CENTER PARK ELEV: 75.68'

# SURVEYOR'S NOTES

- 1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST OF 2018. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
- 2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
- 3. SUBJECT PROPERTY TAX PARCEL NO. 545260-0010
- 4. SUBJECT PROPERTY AREA PER THIS SURVEY IS 11,627± S.F.  $(0.27 \pm ACRES)$
- 5. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
- 6. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.

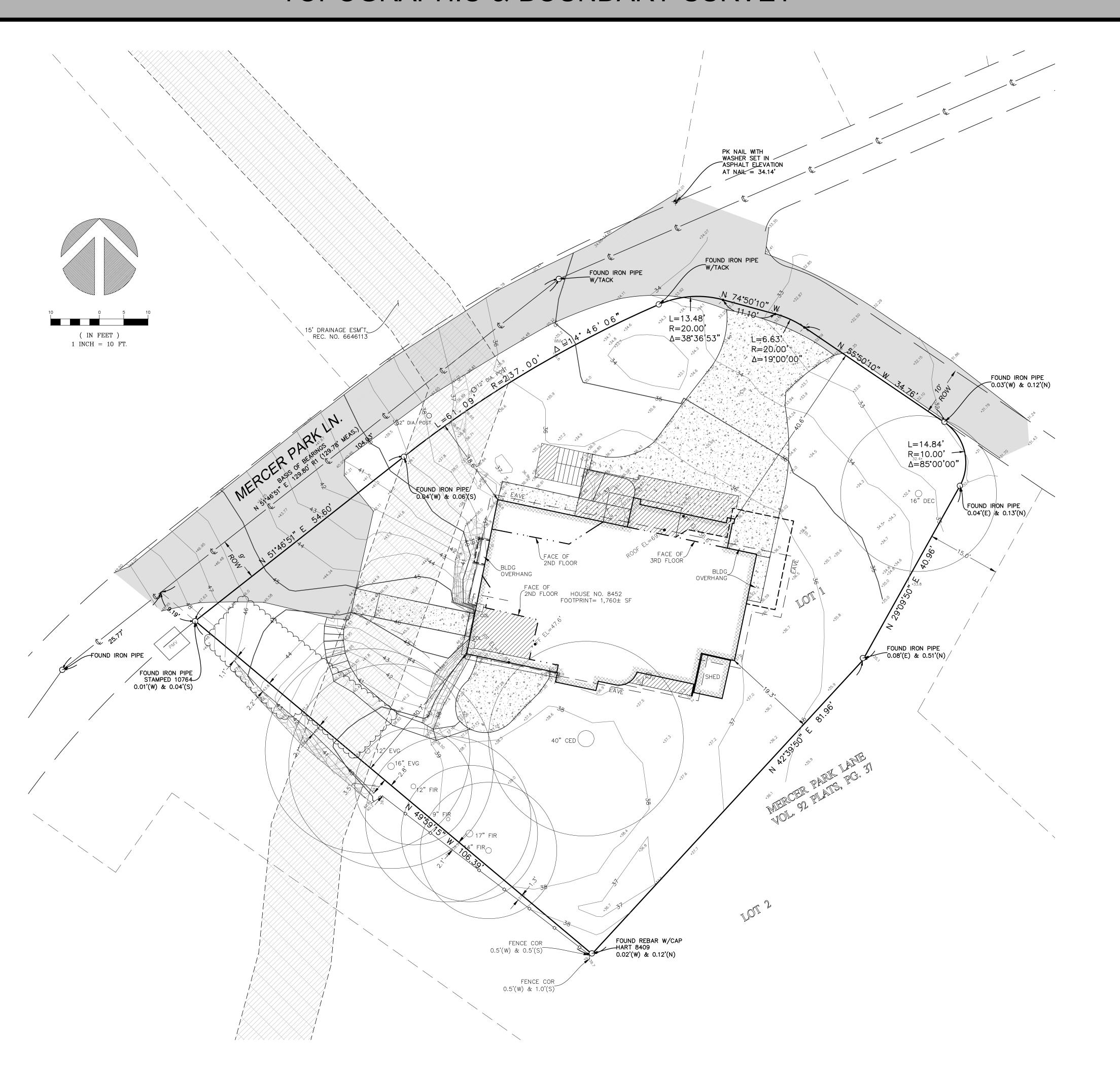
# LEGEND

ASPHALT SURFACE	G GAS METER
<u>***********</u> BUILDING	HEDGE FOLIAGE LINE
♦ BENCHMARK	O IRON PIPE (FOUND)
CENTERLINE ROW	PST O POST
CONCRETE SURFACE	P POWER METER
RETAINING WALL	PMV ELECTRICAL VENT
EASEMENT AREA	ROCKERY
/////// DECK	SIZE TYPE (O) TREE (AS NOTED)
	WM : WATER METER
FLAGSTONE SURFACE	

# VICINITY MAP



# TOPOGRAPHIC & BOUNDARY SURVEY



SURVEN

OGRAPHIC & SW 1/4 OF NW 1/4 SI

	$\vdash$			
DB NUMBER:	181386			
ATE:	08/14/18			
RAFTED BY:	LCH			
HECKED BY:	EJG/RLS			
CALE:	1" = 10'			
REVISION HISTORY				

2/19/19 UPDATE TREES 2/21/19 UPDATE TREES 6/21/19 ADD BENCHMARK

SHEET NUMBER

EXISTING DECKS:
EXISTING WALKWAYS:
EXISTING EXTERIOR STAIRS:
EXISTING PATIO:

PROPOSED DECKS:
EXISTING WALKWAYS:
EXISTING EXTERIOR STAIRS:

TOTAL PROP. HARDSCAPE COVERAGE:

EXISTING PATIO:

EXISTING HOUSE/ROOF: EXISTING DECKS:

EXISTING WALKWAYS:

PROPOSED HOUSE/ROOF:

EXISTING STREET ON PROPERTY:

EXISTING GRAVEL PARKING:

PROPOSED DECKS: PROPOSED DRIVEWAY:

EXISTING WALKWAYS:

PROPOSED STAIRS: EXISTING ROCKERIES:

EXISTING STAIRS: EXISTING ROCKERIES:

EXISTING STREET ON PROPERTY: EXISTING GRAVEL PARKING:

EXISTING PATIO (TO BE DEMO-ED): TOTAL EXISTING IMPERVIOUS SURFACE:

EXISTING DRIVEWAY:

TOTAL EX HARDSCAPE COVERAGE: 749.5 SF ALLOWED HARDSCAPE COVERAGE: 11,630 SF X 9% = 1,046.7 SF...OK

ALLOWED HARDSCAPE COVERAGE: 11,630 SF X 9% = 1,046.7 SF...OK

ALLOWED IMPERVIOUS SURFACE: 11,630 SF X 40% = 4,652 SF

TOTAL PROPOSED IMPERVIOUS SURFACE: 4,580.4 SF (39.4%) ALLOWED IMPERVIOUS SURFACE: 11,630 SF X 40% = 4,652 SF

TOTAL NEW + REPLACED IMPERVIOUS SURFACE:

259.3 SF 285.7 SF 71.1 SF

180.3 SF

145.9 SF

285.7 SF 71.1 SF

180.3 SF

2,442.3 SF 217.8 SF

874.2 SF

434.4 SF

385.8 SF

285.7 SF 115.1 SF

177.3 SF

156.3 SF

2,358.2 SF

185.9 SF

434.4 SF

385.8 SF

285.7 SF

102.1 SF

177.3 SF

997.4 SF

691 SF

5,086.4 SF (43.9%)

636.1 SF (5.5%)



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DATE: 7/26/2019

PERMIT SET

HARDSCAPE AND IMPERVIOUS SURFACE DIAGRAM





DATE: 7/26/2019

PERMIT SET

DEMOLITION PLAN LOWER

## REPLACE BEAM PER STRUCTURAL PREP ROUGH OPENING FOR NEW WINDOW-- EXISTING BEAMS EXISTING TO ABOVE TO REMAIN -REMAIN, REFER TO REPLACE WINDOWS STRUCTURAL IN EXISTING OPENING - REPLACE GARAGE DOOR IN EXISTING ROUGH OPENING DEMO WALLS AND DEMO WALLS AND DOOR ----DEMO BATH FINISHES AND L REPLACE BEAM PER STRUCTURAL FIXTURES --DEMO DOOR AND REPLACE DOOR IN REPLACE DOORS IN EXISTING OPENINGS PREP OPENING FOR EXISTING ROUGH EXISTING OPENINGS DEMO WINDOW; PREPARE FOR INFILL —EX POSTS AND BEAM TO REMAIN —— -DEMO FURNACE AND WATER HEATER DEMO WALLS DEMO INTERIOR WALLS AND DOORS --- DEMO DROPPED FLOOR SYSTEM ABOVE @ REC EXISTING LOWER, MAIN AND UPPER FLOOR — DEMO EX SHED — ROOM ASSEMBLIES TO REMAIN TYP U.N.O. RELOCATE ELECTRICAL PANEL -PREP ROUGH DEMO WINDOWS AND OPENING FOR NEW DOOR; PREP FOR NEW REPLACE WINDOWS IN EXISTING ROUGH DOOR DOOR W/IN EXISTING ROUGH OPENING -DEMO CURVED OPENINGS, TYP

WALL @ STAIR

# PROPOSED ALTERATION - LOWER FLOOR

NO STRUCTURAL ALT WINDOW & DOOR REPLACEMENT

EXTERIOR WALL STRUCTURAL ALTERATION DIAGRAM - 40% THRESHOLD

60'-6 3/8"

DOOR REPLACEMENT

3'-2" STRUCT.

18'-0" NO STRUCT. ALT.

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

TOTAL LENGTH OF LOWER FLOOR EXISTING EXTERIOR WALLS: 199'-6 1/2" LENGTH OF LOWER FLOOR WALLS WITH STRUCTURAL ALTERATIONS: 6'-8" = 3.3%

TOTAL STRUCTURAL ALTERATIONS (ALL FLOORS):

01

TOTAL COMBINED LENGTH OF EXISTING EXTERIOR WALLS @ ALL FLOORS: 538-7 1/4" TOTAL COMBINED LENGTH OF WALLS @ ALL FLOORS WITH STRUCTURAL ALTERATIONS: 207'-0 3/4"= 38.4%

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FLOOR

EXTERIOR WALL STRUCTURAL ALTERATION DIAGRAM - 40% THRESHOLD

. ------------

3'-4 1/4" / STRUCT ALT

> 25'-5/8" NO STRUCTURAL ALT.

12 11

12'-2 7/8"

NO STRUCTURAL
ALTERATION
NEW WINDOWS W/IN
EX OPENING

TOTAL COMBINED LENGTH OF WALLS @ ALL FLOORS WITH STRUCTURAL ALTERATIONS: 207'-0 3/4"= 38.4%

47'-7"
STRUCTURAL ALTERATION

15

19'-8 1/8" STRUCT. ALT

PROPOSED ALTERATION - MAIN FLOOR

LENGTH OF MAIN FLOOR WALLS WITH STRUCTURAL ALTERATIONS: 122'-10 5/8"= 60.3%

TOTAL STRUCTURAL ALTERATIONS (ALL FLOORS):
TOTAL COMBINED LENGTH OF EXISTING EXTERIOR WALLS @ ALL FLOORS: 538'-7 1/4"

TOTAL LENGTH OF MAIN FLOOR EXISTING EXTERIOR WALLS: 203'-10 5/8"

**14** 

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

12'-9 1/8"

NO STRUCT. ALT

NEW WINDOW W/IN

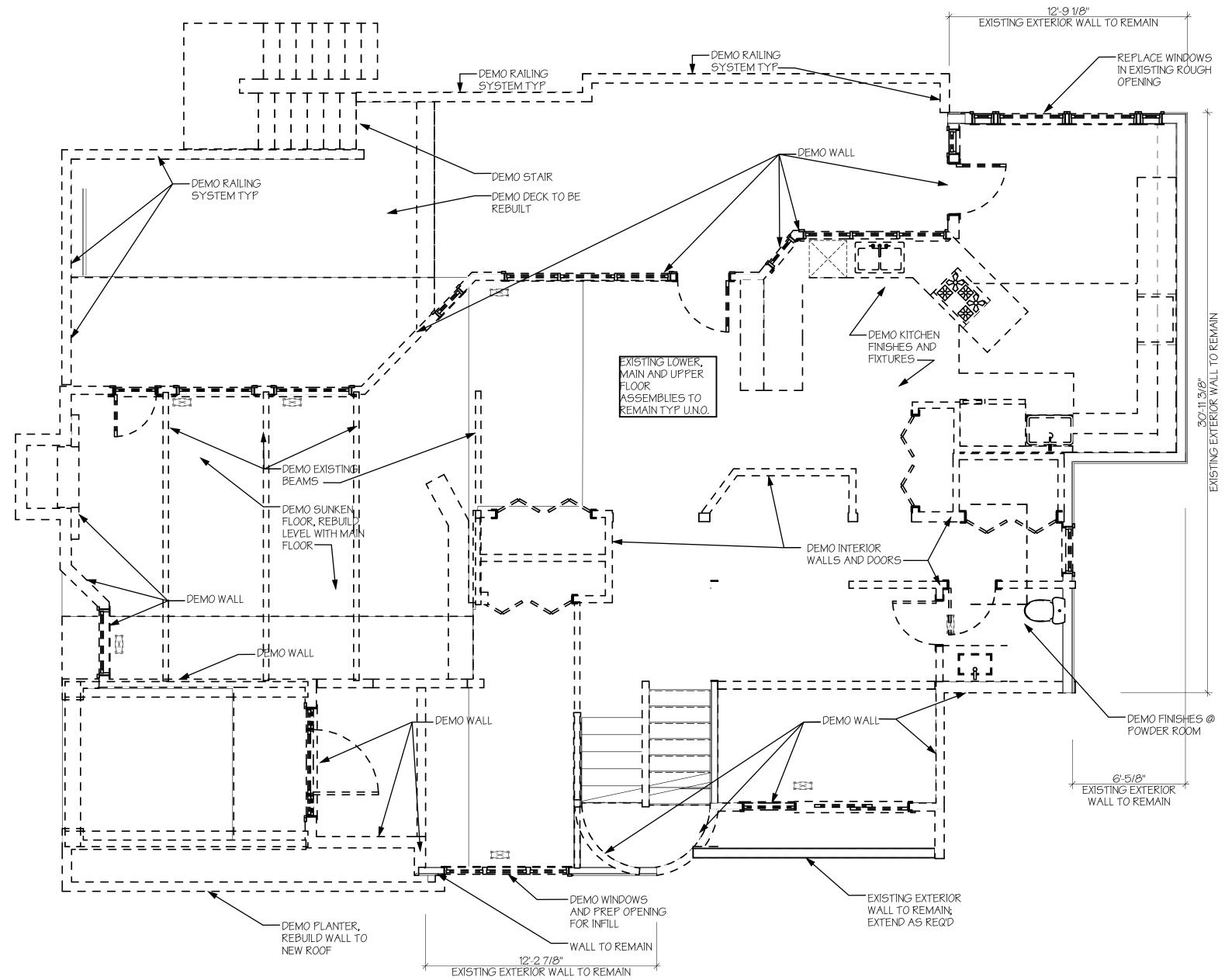
EX OPENING

07

(80)



# -DEMO FINISHES @ POWDER ROOM



# MAIN FLOOR DEMO PLAN

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

EXISTING WALLS

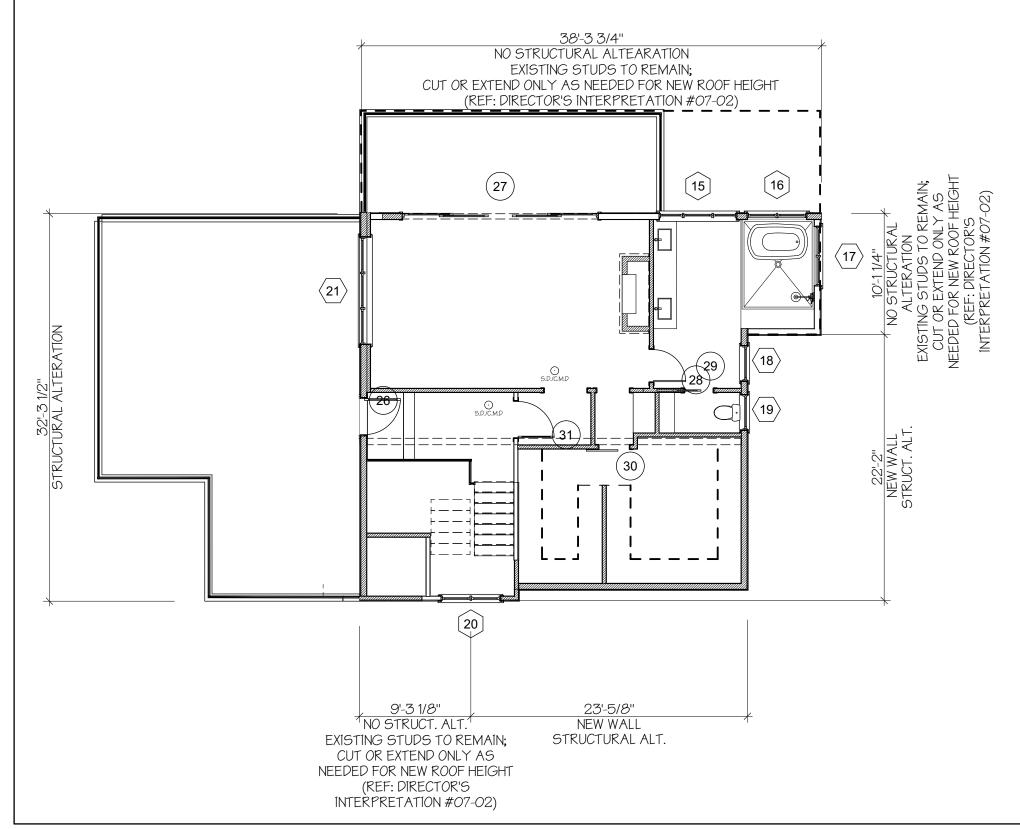
DEMO WALLS



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DEMOLITION UPPER FLOOR PLAN

# EXTERIOR WALL STRUCTURAL ALTERATION DIAGRAM - 40% THRESHOLD

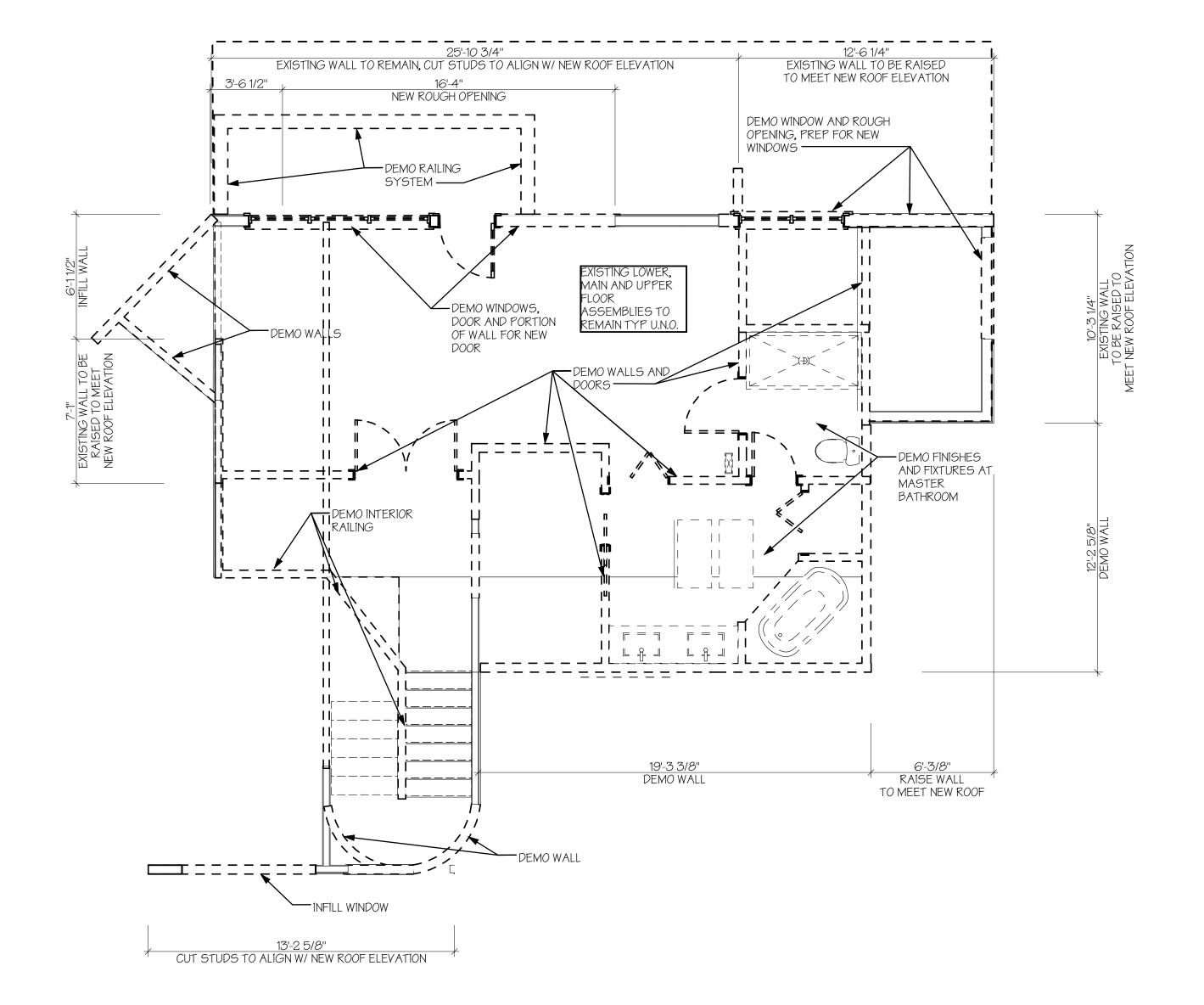


# PROPOSED ALTERATION - UPPER FLOOR

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

TOTAL LENGTH OF UPPER FLOOR EXISTING EXTERIOR WALLS: 135'-2 1/8"
LENGTH OF UPPER FLOOR EXTERIOR WALLS WITH STRUCTURAL ALTERATIONS: 77'-6 1/8" = 57.3%
\*REFER TO DSG POLICY MEMORANDUM ADMINISTRATIVE INTERPRETATION #07-02\*

TOTAL STRUCTURAL ALTERATIONS (ALL FLOORS):
TOTAL COMBINED LENGTH OF EXISTING EXTERIOR WALLS @ <u>ALL FLOORS</u>: 538'-7 1/4"
TOTAL COMBINED LENGTH OF WALLS @ <u>ALL FLOORS</u> WITH STRUCTURAL ALTERATIONS: 207'-0 3/4"= 38.4%



# UPPER FLOOR DEMO PLAN

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

EXISTING WALLS
DEMO WALLS



ENERGY CREDIT INFORMATION

1a EFFICIENT BUILDING ENVELOPE: 0.5 CREDITS

VERTICAL FENESTRATION U = 0.28

3a HIGH EFFICIENCY HVAC EQUIPMENT: 1.0 CREDITS

5a EFFICIENT WATER HEATING: 0.5 CREDITS

5c EFFICIENT WATER HEATING: 1.5 CREDITS

ALL DWELLING UNITS NOT INCLUDED IN SMALL OR LARGE.

MEDIUM DWELLING UNIT: 3.5 CREDITS

MODIFICATIONS:

FLOOR R-38

RATED AT 1.0GPM OR LESS.

**NEW HVAC NOTES:** 

APPLIANCE.

AIR SYSTEM.

TABLE M1507.3.5.

EXISTING LOWER FLOOR AREA

GARAGE (UNCONDITIONED)

ENERGY CREDIT FROM WASHINGTON STATE ENERGY CODE TABLE 406.2

PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING

SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB

GAS, PROPANE, OR OIL-FIRED FURNACE WITH MINIMUM AFUE OF 94% GAS, PROPANE, OR OIL-FIRED BOILER WITH MINIMUM AFUE OF 92%

GAS, PROPANE, OR OIL WATER HEATER WITH A MINIMUM EF OF 0.91

1. INSTALL NEW HYDRONIC RADIANT SYSTEM @ LOWER

FLOOR WALL RADIATORS WITH HIGH EFFICIENCY BOILER,

WITH MINIMUM AFUE OF 92%, VENT TO OUTSIDE TYPICAL

MAIN AND UPPER JOIST TRACK RADIANT HEAT SYSTEM.

COOLING AND VENTILATION TO ALL FLOORS OF THE HOME.

2. PROVIDE SHUT OF VALVE @ CONNECTION TO

4. PER IRC 1506.3.5: PROVIDE WHOLE HOUSE

3. INSTALL NEW FORCED AIR FURNACE TO PROVIDE

VENTILATION SYSTEM INTEGRATED WITH THE FORCED

5. INTEGRATED WHOLE HOUSE VENTILATION SYSTEM

ALLOW OPERATION OF VENTILATION SYSTEM WITHOUT

NEED TO OPERATE HEATING SYSTEM. A LABEL SHALL

HOUSE VENTILATION (SEE OPERATING INSTRUCTIONS)".

6. CONTINUOUS WHOLE HOUSE MECHANICAL VENTILATION

GROSS FLOOR AREA (MEASURED FROM INSIDE OF EXTERIOR WALLS)

BE AFFIXED TO THE CONTROLS THAT READS "WHOLE

MINIMUM AIRFLOW RATE OF 90 CFM. REFER TO IRC

EXISTING GARAGE CONVERTED TO CONDITIONED AREA:

TOTAL CONDITIONED AREA AT LOWER FLOOR:

TOTAL FLOOR AREA AT LOWER FLOOR:

SHALL OPERATE CONTINUOUSLY. PROVIDE CONTROLS TO

BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

ALL SHOWERHEAD AND KITCHEN SINK FAUCETS INSTALLED IN THE HOUSE SHALL

**GAS WATER HEATER NOTES:** 

OWNER PRIOR TO PURCHASING)

DISTANCE OF 4" ABOVE CONTROLS.

**VENTILATION NOTES:** 

**VENTILATION REQUIREMENTS** 

FORCED AIR SYSTEM TO MEET IRC M1507.3.5.

PROVIDE CONTINUOUS AIRFLOW OF 90CFM.

921.6 SF

214.9 SF

493.6 SF

1136.5 SF

1630.1 SF

APPLIANCE.

1. INSTALL NEW TANKLESS GAS WATER HEATER; RHEEM

TANKLESS WATER HEATER WITH RECIRCULATION PUMP.

#RTGH-RH11DVLN W/ 0.94 EFF (CONFIRM SELECTION W/

3. PER IRC M1307.2 ANCHOR OR STRAP WATER HEATER

CAUSED BY EARTHQUAKE MOTION. STRAPPING SHALL BE

AT POINTS WITHIN THE UPPER 1/3RD AND LOWER 1/3RD OF

THE APPLIANCE'S VERTICAL DIMENSIONS. AT THE LOWER

WHOLE HOUSE VENTILATION TO BE INTEGRATED INTO THE

POINT, THE STRAPPING SHALL MAINTAIN A MINIMUM

APPLIANCE TO RESIST HORIZONTAL DISPLACEMENT

HIGH EFFICIENCY 11.0 GPM INDOOR NATURAL GAS

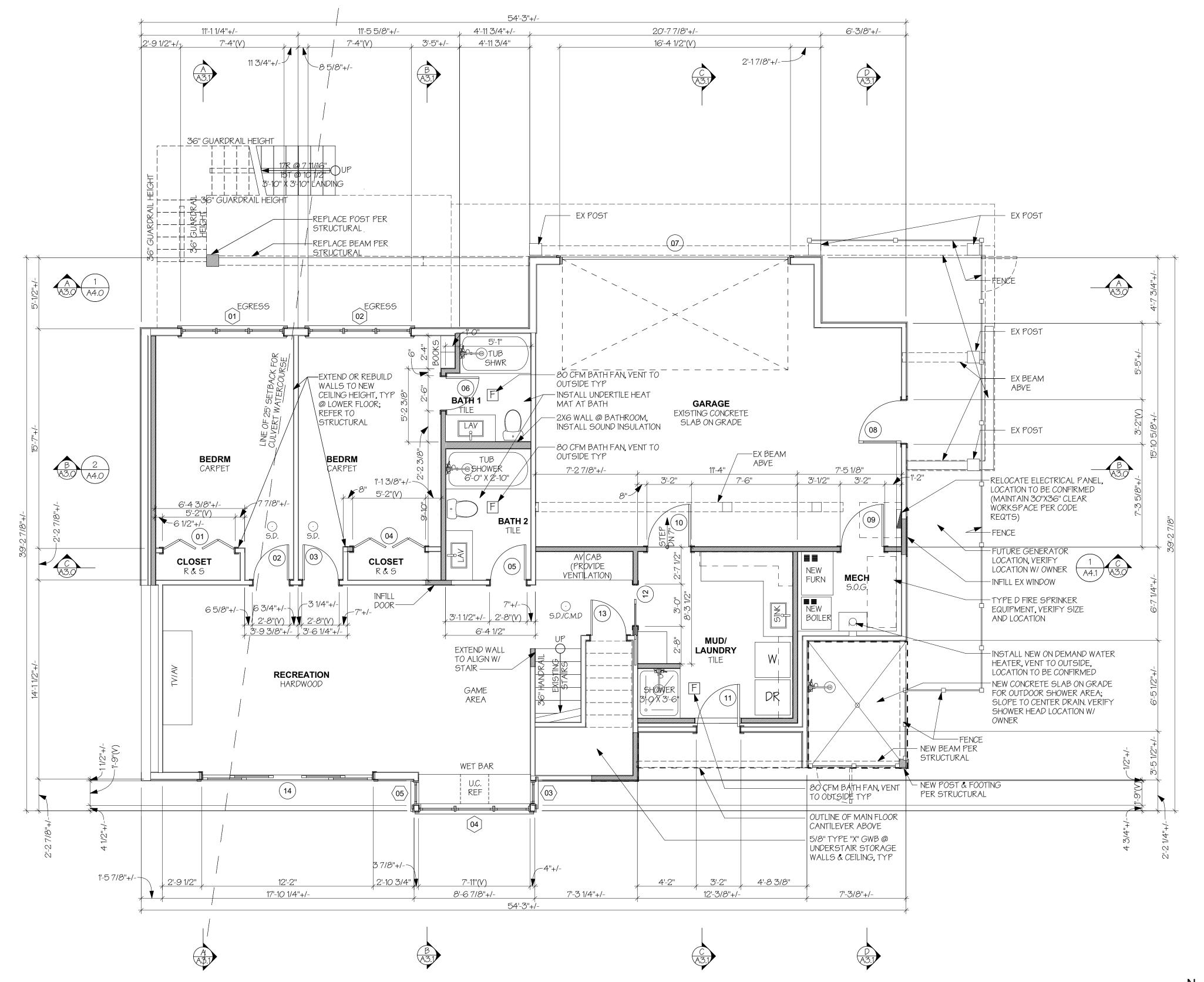
2. PROVIDE SHUTOFF VALVE @ CONNECTION TO

BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE



LOWER FLOOR PLAN





LOWER FLOOR PLAN

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

NEW OR MODIFIED WALLS

4. INSTALL SMOKE DETECTORS (S.D.) AT LOCATIONS SHOWN. HARDWIRE AND INTERCONNECT DETECTORS TO POWER SUPPLY AND PROVIDE BATTERY BACKUP AS REQUIRED.

5. INSTALL CARBON MONOXIDE ALARMS (C.M.D.) OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. THE ALARM AND SHALL BE LISTED AS COMPLYING WITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH IRC R3153 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. 6. UNDERCUT INTERIOR DOORS 1/2" MINIMUM TO PROVIDE AIR FLOW TO ALL HABITABLE SPACES.

2. ALL DOOR AND WINDOW DIMENSIONS ON THIS PLAN ARE ROUGH OPENING SIZES, UNO. REFER TO WINDOW AND DOOR

1. ALL DIMENSIONS ARE GIVEN TO THE FACE OF STUD UNO. SCHEDULE FOR MORE INFORMATION.

3. SEE ATTACHED WSEC FORMS FOR ENERGY CODE COMPLIANCE INFORMATION.



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1479.8 SF

(-19.4 SF)

394.6 SF

1874.4 SF

190.2 SF

97.6 SF

3918.5 SF

4463.5 SF

4652 SF

GROSS FLOOR AREA (MEASURED FROM INSIDE OF EXTERIOR WALLS)

EXISTING MAIN FLOOR AREA: EXISTING AREA DEMOLISHED:

TOTAL CONDITIONED AREA AT MAIN FLOOR:

EXISTING UNCOVERED DECK TO BE REBUILT:

TOTAL CONDITIONED FLOOR AREA:

MAXIMUM ALLOWED FLOOR AREA RATIO:

EXISTING COVERED PORCH TO HAVE NEW FINISHES:

NEW ADDITION:

TOTAL FLOOR AREA:

MAIN FLOOR PLAN

60'-4 1/8"+/-22'-1" 38'-3 1/8" 14'-0" 7'-2 1/2" REPLACE EX EXTERIOR STAIR 36" GUARDRAL HEIGHT GAS STUB FOR BBQ; VERIFY LOCATION—— 07 — INSTALL GAS STUB FOR PAVERS ON PEDESTALS RANGE OVER FIBERGLASS WATERPROOFING DINING 15 HARDWOOD 4'X8' ISLAND - NEW BEAM — INSTALL RANGE HOOD; HOODS OVER 400 CFM REQUIRE MAKE — EX GAS STUB @ ABOVE PER **KITCHEN** FIREPLACE; VERIFY STRUCTURAL-UP AIR. MAKE UP AIR TO BE HARDWOOD - INSTALL NEW UL LISTED INTERLOCKED W/ FAN DIRECT VENT GAS FIREPLACE, OPERATION AT A RATE APPROX. EQUAL TO THE EXHAUST AIR RATE THAT IS IN DIRECT VENT TO REAR OF UNIT, VENT TO OUTSIDE TYP PER EXCESS OF 400CM PER MFR REQ'T M1503.4 FULL HEIGHT 60" REF CABINETRY - NEW BEAM LIVING ABOVE PER CLOSET LNDRY HARDWOOD STRUCTURAL-HARDWOOD -STACKED WASHER AND DRYER, INSTALL W/ PAN UNDER VENT TO OUTSIDE TYP — INFILL WINDOW └<sub>╎</sub>┾═*═╼*┲═╘╼═╘╼╤═╒╤ - 110 CFM BATH LINE OF LANDING FAN, VENT TO CABINET OUTSIDE TYP BEDRM/ BATH OFFICE **ENTRY** HARDWOOD PAVERS OVER HARDWOOD PEDESTALS ON FIBERGLASS DECK CLOSET R&S 36" GUARDRAIL HEIGHT **EGRESS** 50 CFM FAN, VENT TO OUTSIDE TYP - 2X6 PLUMBING WALL - NEW LANDING 3'-3" 1'-8 1/8'' ~4 1/2" 1'-9 1/2" 2'-6" 7" 2'-6" 2'-6" 2'-7 1/8" 13'-7 1/8" 5'-5 1/2" 10'-5 3/4" 6'-1 1/8'' 60'-4 1/8"+/-

MAIN FLOOR PLAN

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

EXISTING WALLS

NEW OR MODIFIED WALLS

1. ALL DIMENSIONS ARE GIVEN TO THE FACE OF STUD UNO.

2. ALL DOOR AND WINDOW DIMENSIONS ON THIS PLAN ARE ROUGH OPENING SIZES, UNO. REFER TO WINDOW AND DOOR SCHEDULE FOR MORE INFORMATION.

3. SEE ATTACHED WSEC FORMS FOR ENERGY CODE COMPLIANCE INFORMATION.

4. INSTALL SMOKE DETECTORS (S.D.) AT LOCATIONS SHOWN. HARDWIRE AND INTERCONNECT DETECTORS TO POWER SUPPLY AND PROVIDE BATTERY BACKUP AS REQUIRED.

5. INSTALL CARBON MONOXIDE ALARMS (C.M.D.) OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. THE ALARM AND SHALL BE LISTED AS COMPLYING WITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH SRC R3153 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS



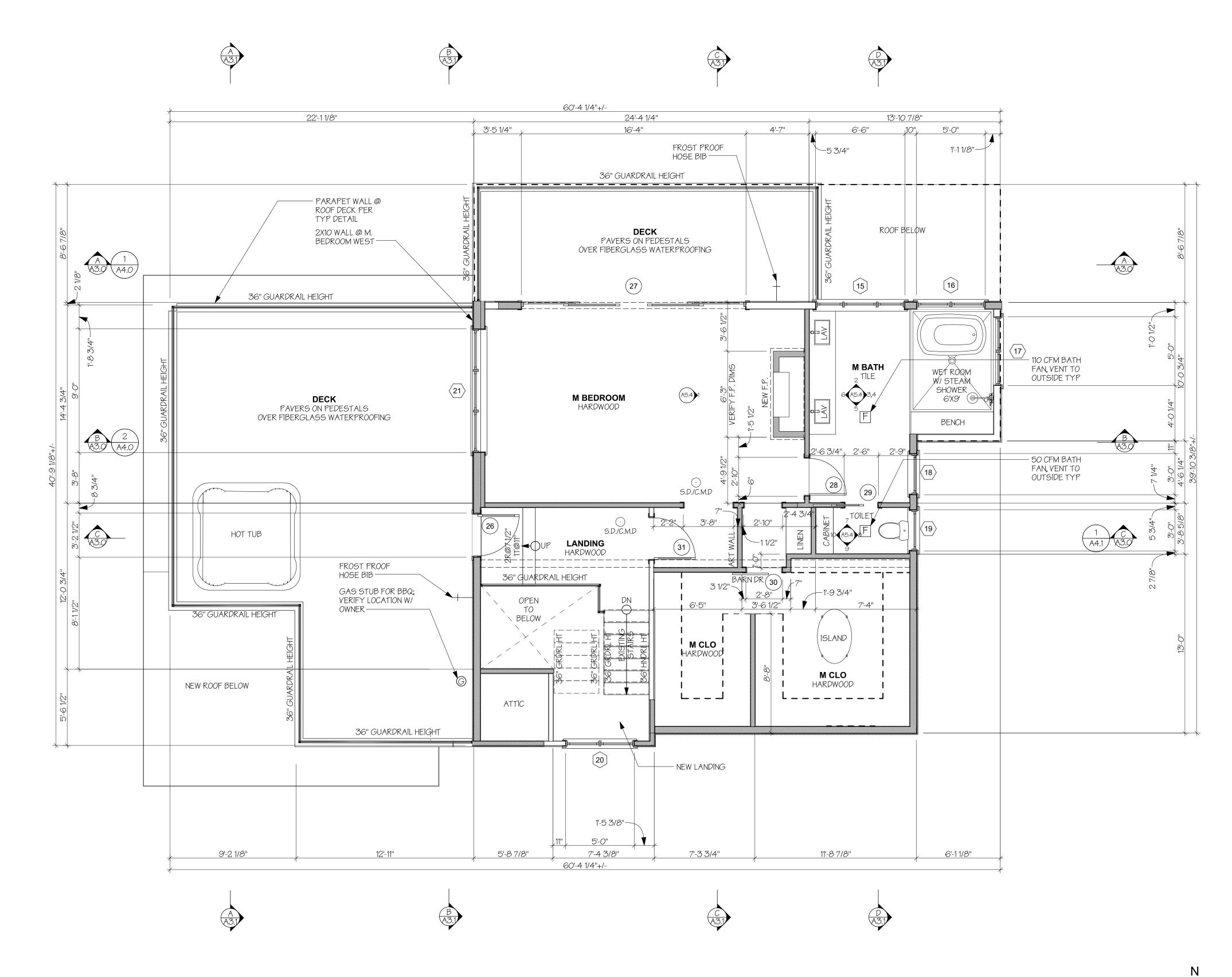
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DATE: 7/26/2019

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UPPER FLOOR PLAN



UPPER FLOOR PLAN

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

EXISTING WALLS
NEW OR MODIFIED WALLS

1. ALL DIMENSIONS ARE GIVEN TO THE FACE OF STUD UNO. SCHEDULE FOR MORE INFORMATION.

2. ALL DOOR AND WINDOW DIMENSIONS ON THIS PLAN ARE ROUGH OPENING SIZES, UNO. REFER TO WINDOW AND DOOR

3. SEE ATTACHED WSEC FORMS FOR ENERGY CODE COMPLIANCE INFORMATION. 4. INSTALL SMOKE DETECTORS (S.D.) AT LOCATIONS SHOWN. HARDWIRE AND INTERCONNECT DETECTORS TO POWER SUPPLY AND PROVIDE BATTERY BACKUP AS REQUIRED.

5. INSTALL CARBON MONOXIDE ALARMS (C.M.D.) OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. THE ALARM AND SHALL BE LISTED AS COMPLYING WITH UL 2034 AND SHALL BE INSTALLED IN ACCORDANCE WITH IRC R3153 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS

GROSS FLOOR AREA (MEASURED FROM INSIDE OF EXTERIOR WALLS)	
EXISTING UPPER FLOOR AREA:	684.1 SF
EXISTING AREA DEMOLISHED:	(-21.6 SF)
NEW ADDITION:	223.5 SF
DOUBLE HEIGHT SPACE AT UPPER LEVEL (COUNT AT 100%)	51.45F
TOTAL CONDITIONED AREA AT UPPER FLOOR:	907.6 SF
TOTAL FLOOR AREA AT UPPER FLOOR:	959 SF



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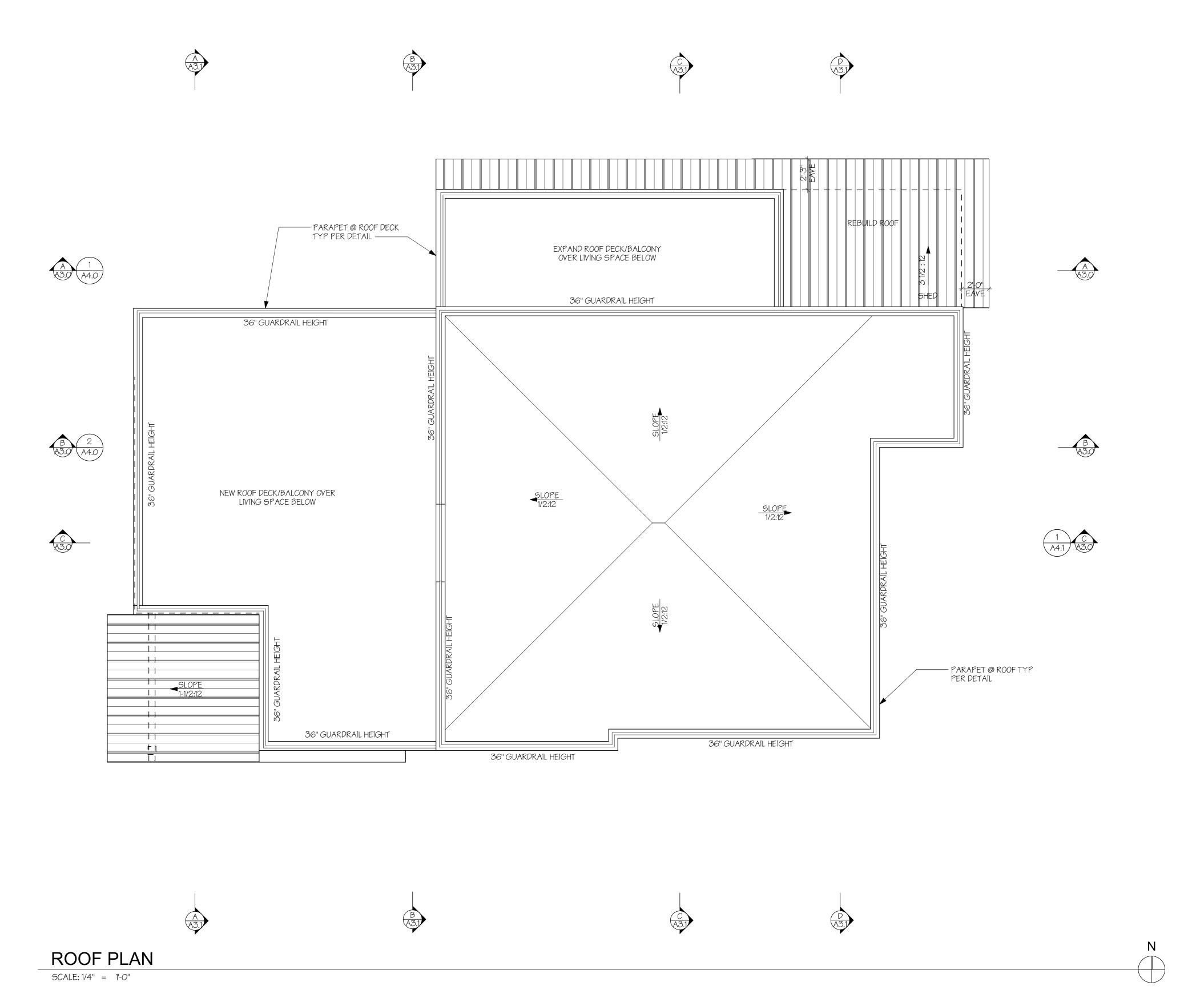
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ROOF PLAN



					DOOR SCHE	DULE				
	ID	R.O. DIMENS	IONS *SEE NOTE 1	DOOR LEAF [	DIMENSIONS	TYPE	THICK	AREA	NOTES	U-VAL
	I ID	WIDTH	HEIGHT	W	HT	TITE	ITICK	(SF)	NOTES	U-VAL
LOWER FLOOR										
	<i>O</i> 1	5'-2"	6'-10 1/2"	5'-0"	6'-8"	BI-FOLD	0'-13/8"	0.00	PR 2'-6" DRS; VERIFY FIT IN EX R.O.	
	02	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING	0'-13/8"	0.00	VERIFY FIT IN EX R.O.	
	03	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING	0'-13/8"	0.00	VERIFY FIT IN EX R.O.	
	04	5'-2"	6'-10 1/2"	5'-0"	6'-8"	BI-FOLD	0'-13/8"	0.00	PR 2'-6" DRS	
	05	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING	0'-1 3/8"	0.00		
	06	2'-6"	6'-10 1/2"	2'-4"	6'-8"	SWING	0'-1 3/8"	0.00		
	07	16'-4 1/2"	8'-2 1/4"	16'-0"	8'-0"	ROLL-UP	0'-13/4"	0.00	GARAGE DOOR, VERIFY FIT IN EX R.O.	
	08	3'-2"	6'-9 1/2"	3'-0"	6'-7"	SWING	0'-13/4"	0.00	VERIFY FIT IN EX R.O.	
	09	3'-2"	6'-10 1/2"	3'-0"	6'-8"	SWING	0'-13/8"	0.00	1-3/8" S.C. 20 MIN RATED DR W/ SELF CLOSER	
	10	3'-2"	6'-10 1/2"	3'-0"	6'-8"	SWING	0'-13/8"	0.00	1-3/8" S.C. 20 MIN RATED DR W/ SELF CLOSER	
	11	3'-2"	6'-10 1/2"	3'-0"	6'-8"	SWING	0'-13/4"	20.00		0.20
	12	3'-0"	6'-10 1/2"	2'-10"	6'-8"	POCKET	0'-13/8"	0.00	VERIFY R.O. FOR POCKET DR FRAME	
	13	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING	0'-13/8"	0.00		
	14	12'-2"	6'-10 1/2"	12'-0"	6'-8"	S.G.D.	0'-13/4"	0.00	OXXO, TEMPERED GLAZING	
MAIN FLOOR	I									
	15	17'-2"	6'-10 1/2"	17'-0"	6'-8"	LIFT & SLIDE	0'-13/4"	113.00	OXX, LIFT & SLIDE; TEMPERED	0.30
	16	7'-2"	6'-10 1/2"	7'-0''	6'-8"	S.G.D.	0'-13/4"	46.70	XO TEMPERED	0.30
	17	5'-2"	6'-9"	5'-0"	6'-8"	SWING	0'-13/8"	0.00	FRENCH DOOR	
	18	2'-6"	6'-10 1/2"	2'-4"	6'-8"	SWING	0'-1 3/8"	0.00		
	19	2'-10"	6'-9"	2'-8"	6'-8"	SWING	0'-1 3/8"	0.00		
	20	2'-10"	6'-10 1/2"	2'-8"	6'-8"	SWING	0'-1 3/8"	0.00		
	21	2'-8"	6'-10 1/2"	2'-6"	6'-8"	SWING	0'-1 3/8"	0.00		
	22	2'-6"	6'-10 1/2"	2'-4"	6'-8"	SWING	0'-1 3/8"	0.00		
	23	3'-8"	6'-10 1/2"	3'-6"	6'-8"	SWING	0'-1 3/8"	0.00	FRENCH DOORS	
	24	3'-8"	6'-10 1/2"	3'-6"	6'-8"	SWING	0'-1 3/8"	0.00	FRENCH DOORS	
	25	5'-10"	8'-2 1/2"	3'-6"	8'-0"	SWING	0'-13/4"	46.70	OVERSIZE ENTRY W/ SIDELITES; TEMPERED	
UPPER FLOOR										
	26	3'-2 1/2"	6'-9 1/4"	3'-0"	6'-8"	SWING	0'-13/4"	20.00	TEMPERED GLAZING; STORE DOOR	0.20
	27	16'-4"	7'-2 1/4"	16'-0''	6'-10 1/2"	S.G.D.	0'-13/4"	110.00	OXXO TEMPERED GLAZING	0.20
	28	2'-10"	6'-10 1/2"	2'-8"	6'-8"	SWING	0'-1 3/8"	0.00		
	29	2'-6"	6'-10 1/2"	2'-4"	6'-8"	POCKET	0'-13/8"	0.00	VERIFY R.O. FOR POCKET DR FRAME	
	30	2'-8"	6'-10 1/2"	3'-2"	7'-0"	BARN	0'-13/8"	0.00		
	31	3'-2"	6'-10 1/2"	3'-0"	6'-8"	SWING	0'-13/8"	0.00		
TOTAL EXTERIO	OR DOOR ARE					1		356.40	I	

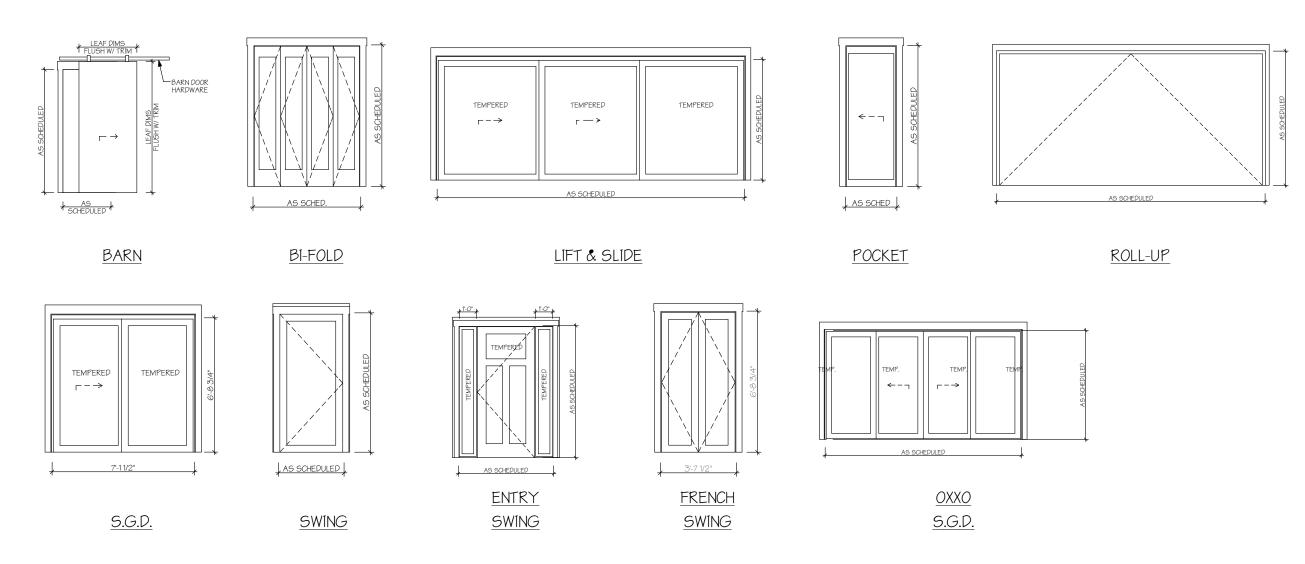
MANUFACTURER: INTERIOR: SIMPSON OR EQUAL, SOLID CORE 1 PANEL DOORS (TO BE SELECTED)

EXTERIOR: SIERRA PACIFIC OR EQUAL ALUMINUM CLAD EXTERIOR WITH PRIMED PINE INTERIOR (TO BE SELECTED)

1. VERIFY ROUGH OPENING SIZES WITH SELECTED MANUFACTURER REQUIREMENTS

2. SEE ELEVATIONS FOR CONFIGURATION
3. VERIFY ALL SIZES AND ROUGH OPENINGS PRIOR TO CONSTRUCTION

4. CONTACT ARCHITECT IMMEDIATELY WITH QUESTIONS
5. ALL GLAZING AT DOORS TO BE TEMPERED.



				W	/INDOW	SCHED	JLE		
	ID	ROUGH OPENING *SEE NOTE 1 ROUGH HEAD TYPE OPEN AREA						NOTEO	
	WIDTH		HEIGHT	FROM SUBFLR.	TYPE	OPER	(SF)	NOTES	U-VAL
OWER FLOOR	•		•		•	•	•		•
	01	7'-4"	4'-0"	6'-10 1/2"	Α	C/P/C	29.30	EGRESS. VERIFY FIT IN EX R.O.	0.30
	02	7'-4"	4'-0"	6'-10 1/2"	Α	C/P/C	29.30	EGRESS. VERIFY FIT IN EX R.O.	0.30
	03	1'-9"	3'-6"	6'-10 1/2"	С	С	6.20	VERIFY FIT IN EX R.O.	0.30
	04	7'-11"	3'-6"	6'-10 1/2"	D	P/P/P	27.70	VERIFY FIT IN EX R.O.	0.30
	05	1'-9"	3'-6"	6'-10 1/2"	С	С	6.20	VERIFY FIT IN EX R.O.	0.30
1AIN FLOOR					•	•			•
	06	14'-0"	6'-10 1/2"	6'-10 1/2"	E	P/P/P/P	96.30	TEMPERED GLAZING	0.30
	07	9'-8"	3'-6"	6'-10 1/2"	Α	C/P/C	33.80		0.30
	08	2'-6"	2'-6"	6'-10 1/2"	F	Α	6.25	TRANSLUCENT	0.3
	09	2'-6"	2'-6"	6'-10 1/2"	F	Α	6.25	TEMPERED, TRANSLUCENT	0.30
	10	9'-0"	4'-0"	6'-10 1/2"	Α	C/P/C	36.00	EGRESS EGRESS	0.30
	11	2'-6"	3'-6"	6'-10 1/2"	F	Α	6.25	TEMPERED	0.30
	12	2'-6"	3'-6"	6'-10 1/2"	F	А	6.25	TRANSLUCENT	0.30
	13	6'-6"	2'-0"	7'-7 1/2"	Н	P/P	26.00		0.30
	14	6'-0"	4'-6"	8'-0"	G	P/P	27.00		0.30
	14	6'-6"	2'-0"	7'-7 1/2"	Н	P/P	26.00		0.30
PPER FLOOR			,		•	•			•
	15	6'-6"	3'-6"	6'-10 1/2"	Α	C/P/C	22.80		0.30
	16	5'-0"	3'-6"	6'-10 1/2"	1	P/P	17.50	TEMPERED. UPPER: CLEAR; LOWER: TRANSLUCENT	0.30
	17	5'-0"	3'-6"	6'-10 1/2"	1	P/P	17.50	TEMPERED. UPPER: CLEAR; LOWER: TRANSLUCENT	0.30
	18	3'-0"	4'-0"	6'-10 1/2"	J	P	12.00		0.30
	19	3'-0"	4'-0"	6'-10 1/2"	С	С	12.00	TRANSLUCENT	0.30
	20	5'-0"	8'-0"	6'-10 1/2"	G	P/P	40.00	TEMPERED	0.30
	21	9'-0"	3'-6"	6'-10 1/2"	Α	C/P/C	22.80		0.30

MANUFACTURER: SIERRA PACIFIC OR EQUAL (TO BE SELECTED)
SERIES: ALUMINUM CLAD EXTERIOR WITH PRIMED PINE INTERIOR

1. VERIFY ROUGH OPENING SIZES WITH SELECTED MANUFACTURER REQUIREMENTS 2. SEE ELEVATIONS FOR CONFIGURATION

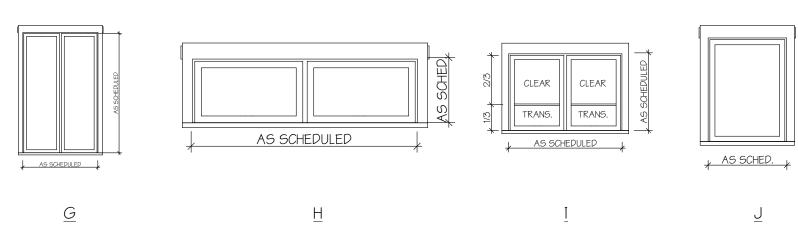
3. VERIFY ALL SIZES AND ROUGH OPENINGS PRIOR TO CONSTRUCTION
4. VERIFY EXISTING ROUGH OPENINGS WHERE WINDOWS ARE BEING REPLACED IN THE EXISTING OPENINGS PRIOR TO

ORDERING THE WINDOWS

AS SCHEDULED

5. CONTACT ARCHITECT IMMEDIATELY WITH QUESTIONS
6. TRANSLUCENT GLASS TO BE SATIN ETCH. PROVIDE GLASS SAMPLE TO OWNER/ARCH FOR APPROVAL PRIOR TO

AS SCHEDULED



P = PICTURE
S.H. = SINGLE HUNG
H = HOPPER

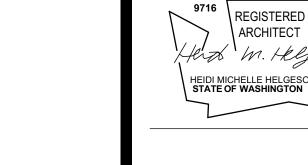
AS SCHEDULED

KEY

AS SCHEDULED

A = AWNINGC = CASEMENT

H.S. = HORIZONTAL SLIDER





ARCHITECT U R E D E S I G N

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WINDOW AND DOOR SCHEDULES



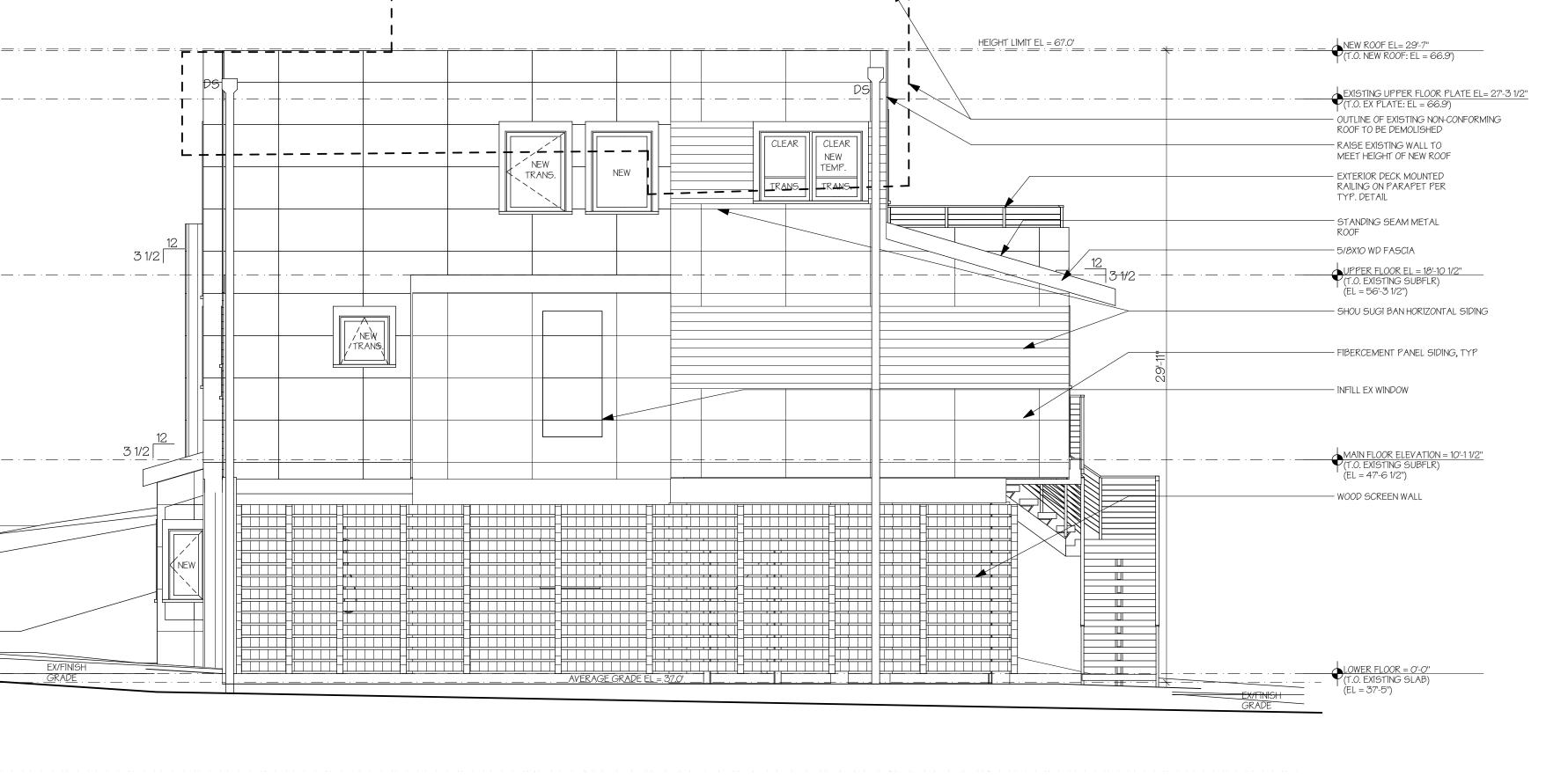


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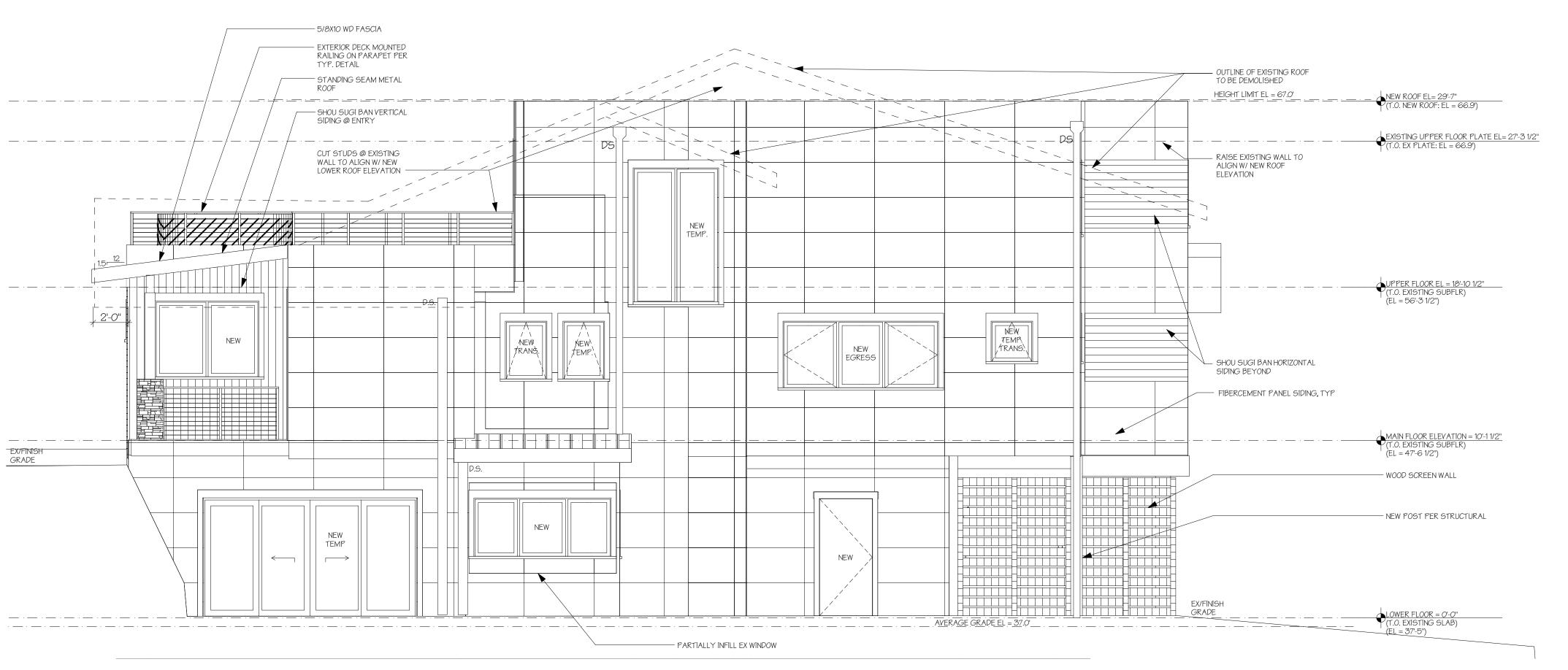
PERMIT SET

**EXTERIOR ELEVATIONS** 



# EAST ELEVATION

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



# **SOUTH ELEVATION**

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

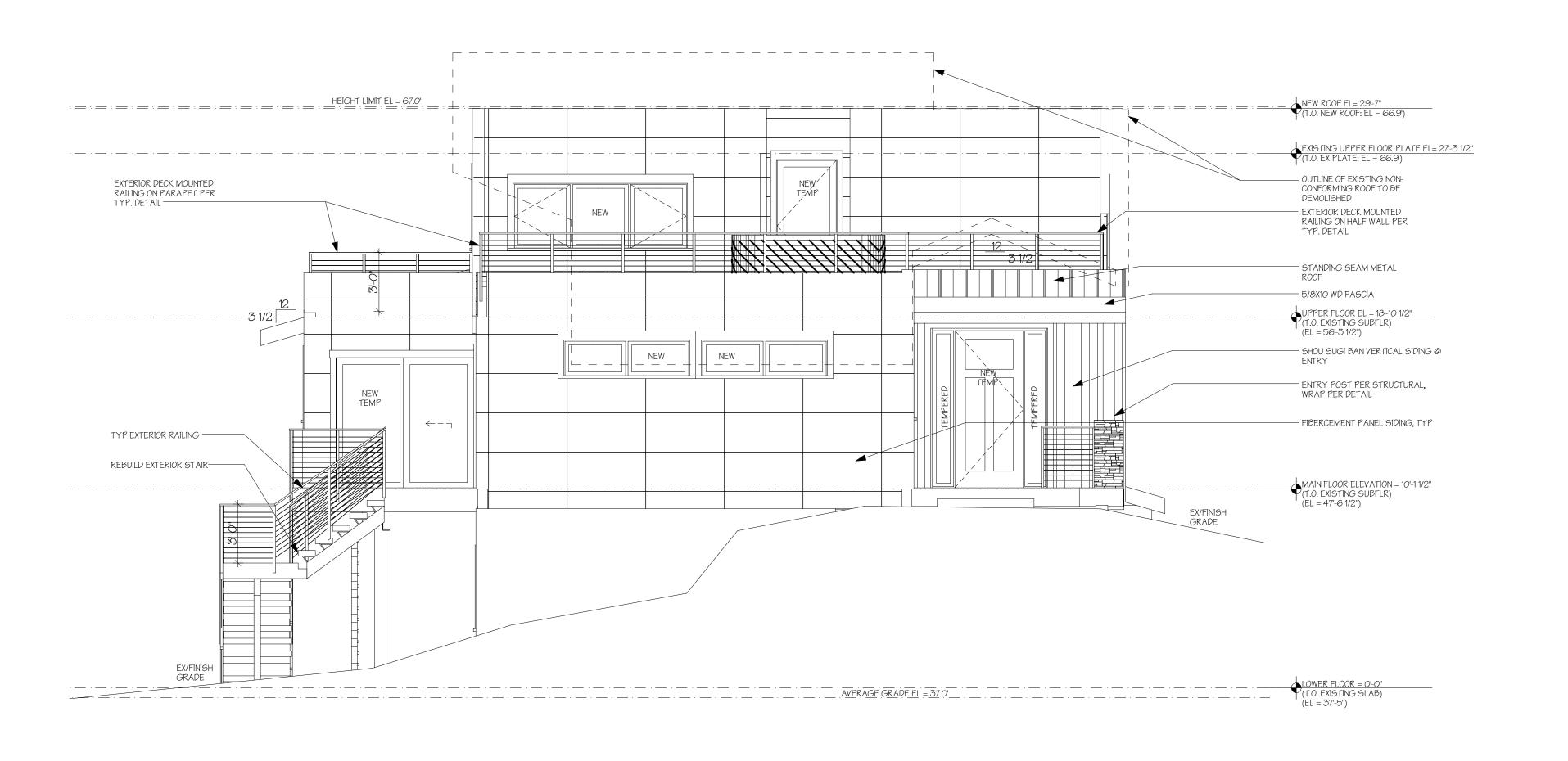


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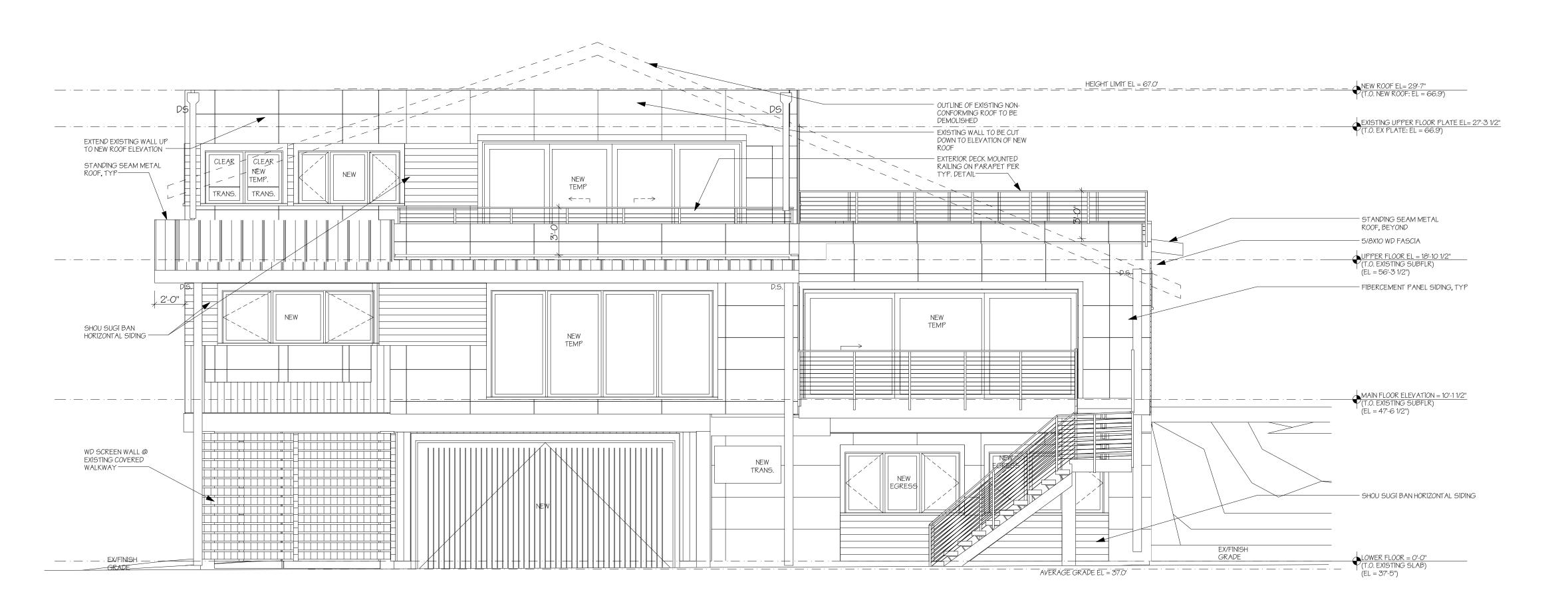
PERMIT SET

**EXTERIOR ELEVATIONS** 



# WEST ELEVATION

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



NORTH ELEVATION

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







ARCHITECTURE

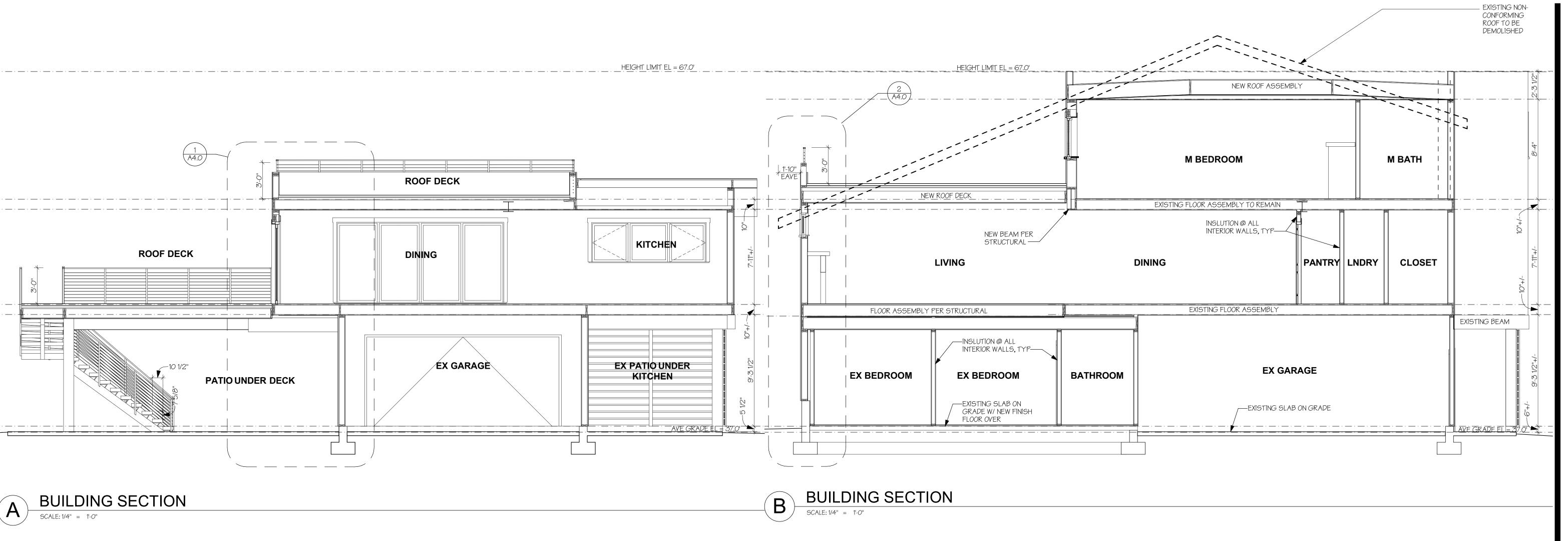
+
DESIGN

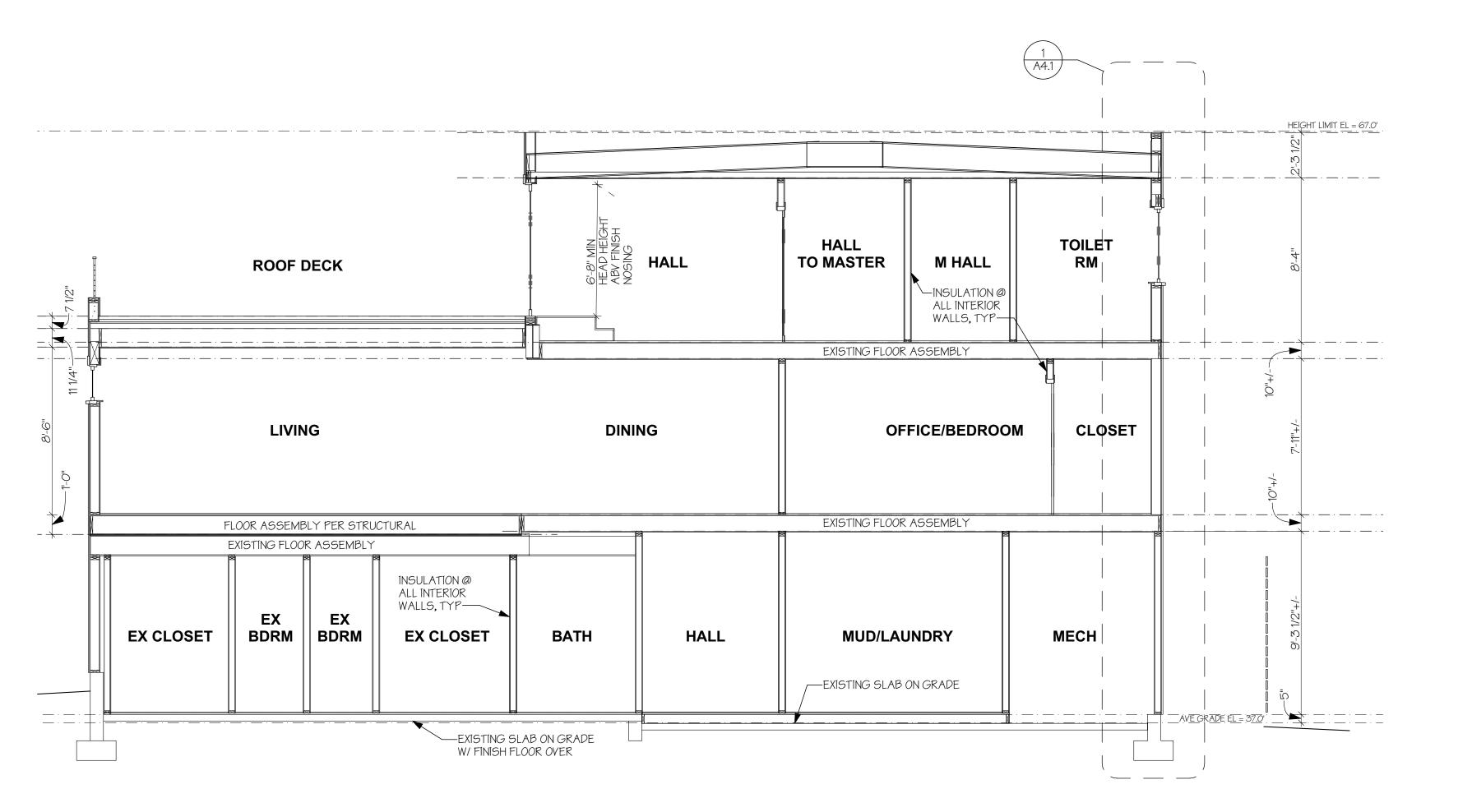
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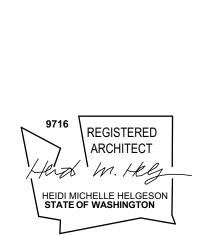
PERMIT SET

BUILDING SECTIONS











ARCHITECT U R E DESIGN

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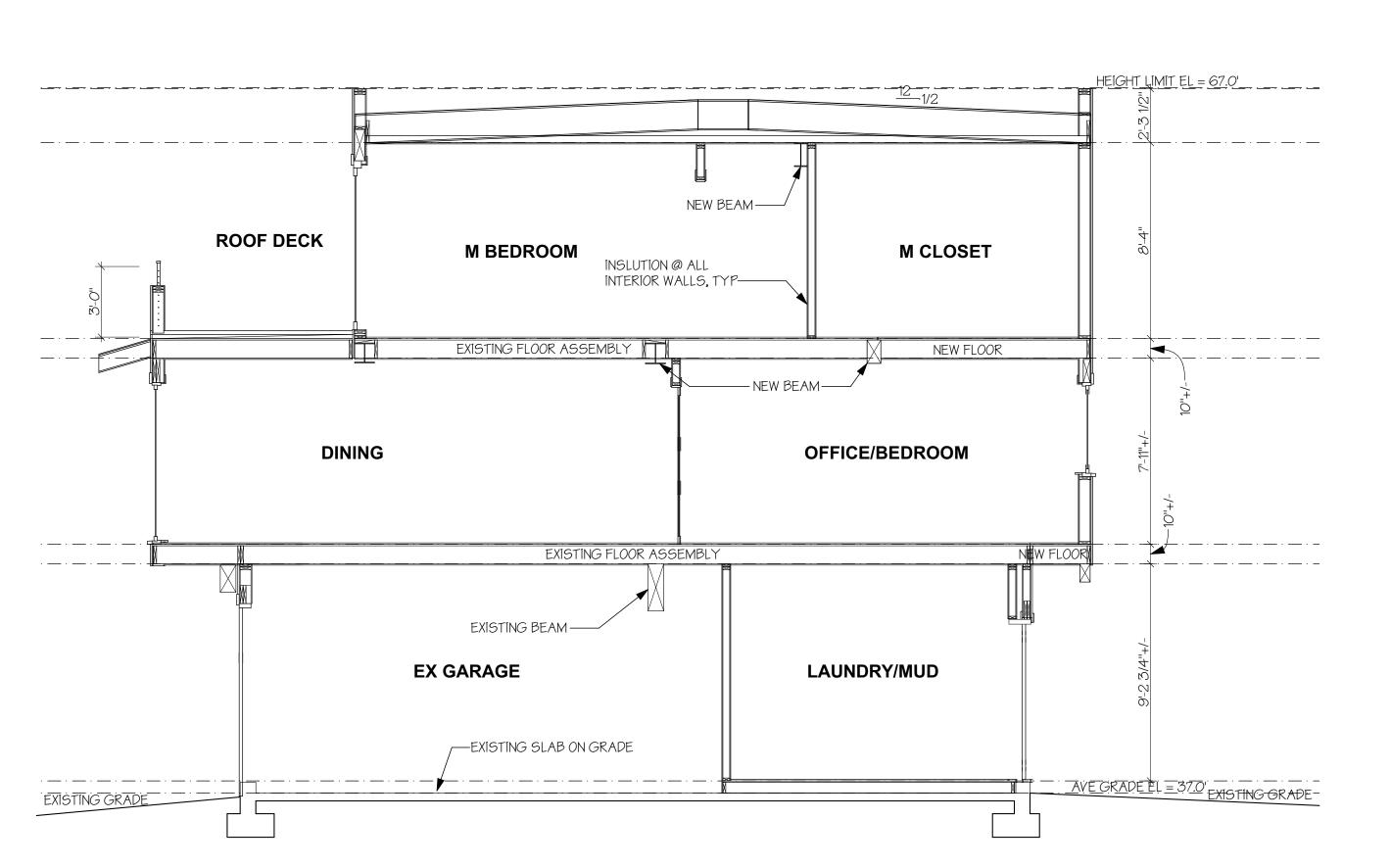
**BUILDING SECTIONS** 

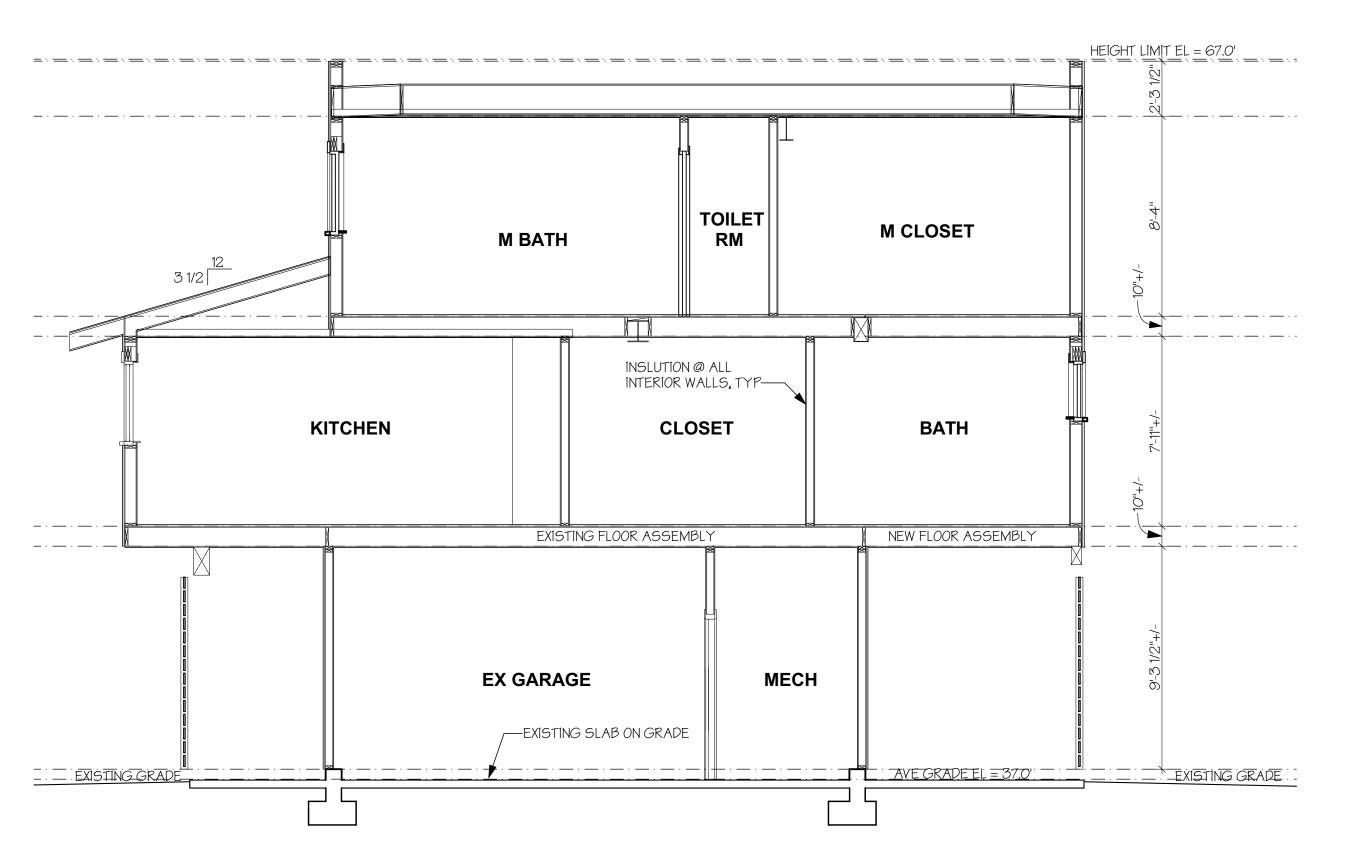
**ROOF DECK FRONT ENTRY** LIVING NEW FLOOR ASSEMBLY PER STRUCTURAL EXISTINGASSEMBLY PER STRUCTURAL INSLUTION @ ALL INTERIOR WALLS, TYP—— CLO RECREATION **EX BEDROOM** \_\_EXISTING SLAB ON GRADE

BUILDING SECTION

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

**DECK** 





**ROOF DECK** 

EX CLO

LIVING

NEW FLOOR ASSEMBLY PER STRUCTURAL

**EX BEDROOM** 

EXISTING FLOOR ASSEMBLY PER STRUCTURAL

INSLUTION @ ALL INTERIOR WALLS, TYP——

— DEMO EX FLOOR ASSEMBLY @ RECREATION ROOM

—EXISTING SLAB ON GRADE

**RECREATION** 

**POWDER** 

BUILDING SECTION

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



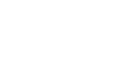
ARCHITECT U R E D E S I G N

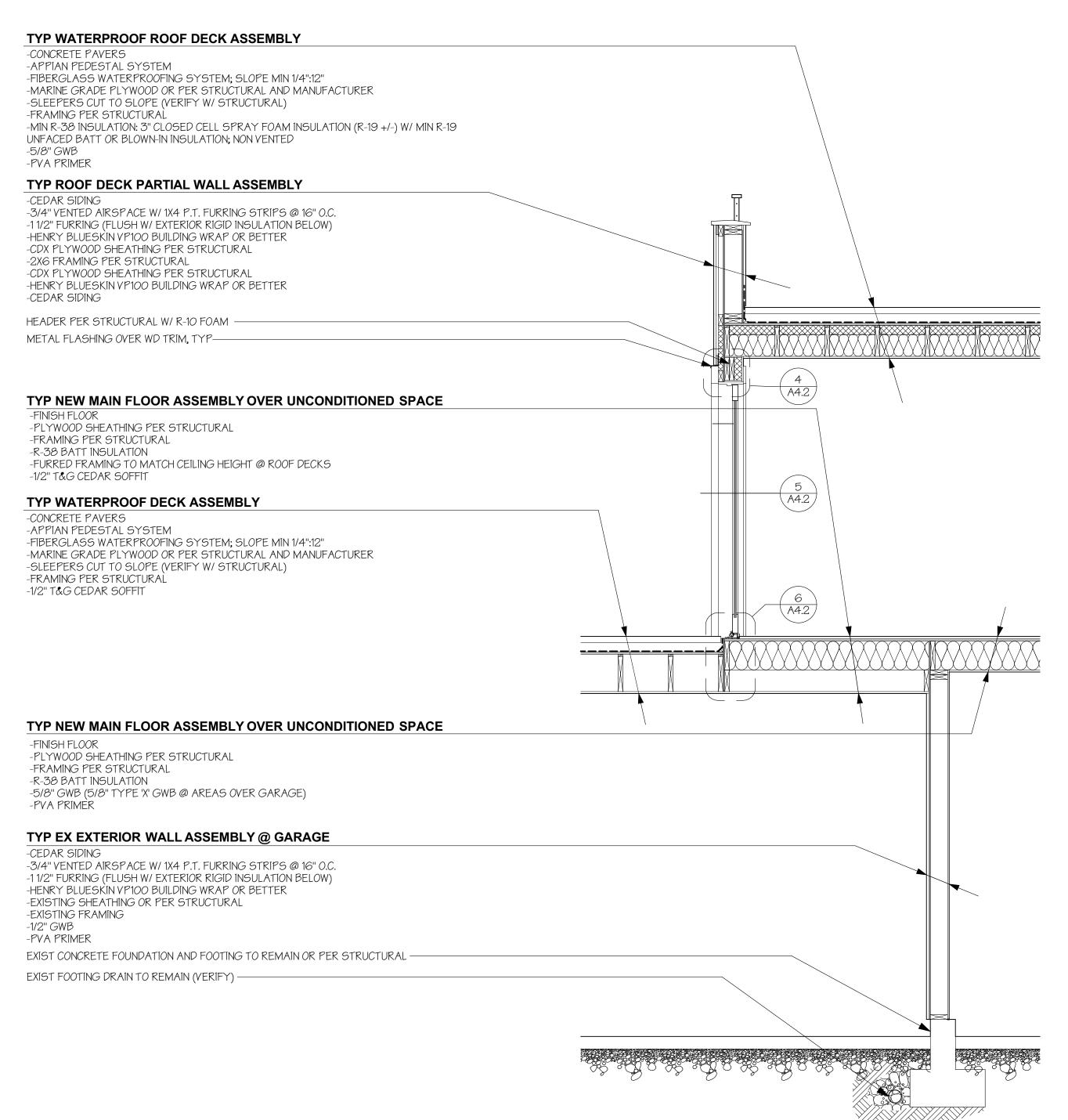
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DATE: 7/26/2019

PERMIT SET

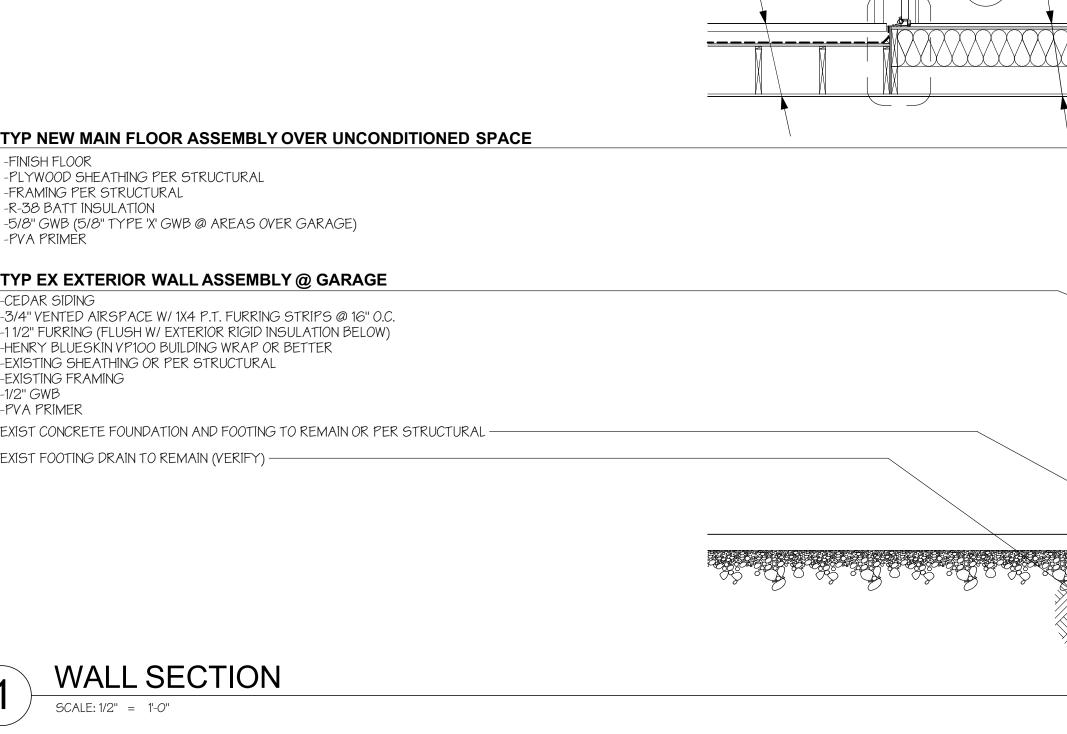
WALL SECTIONS

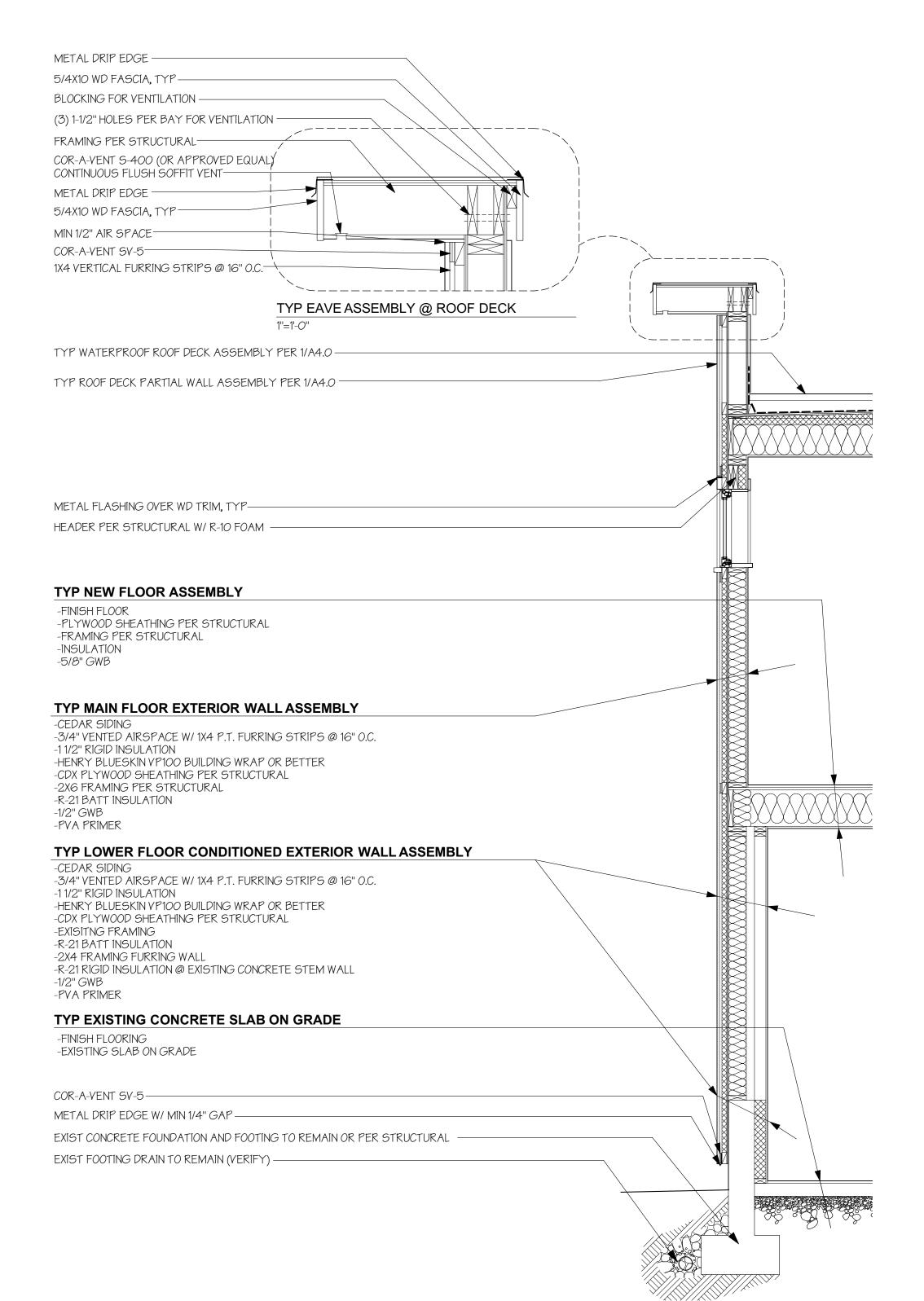






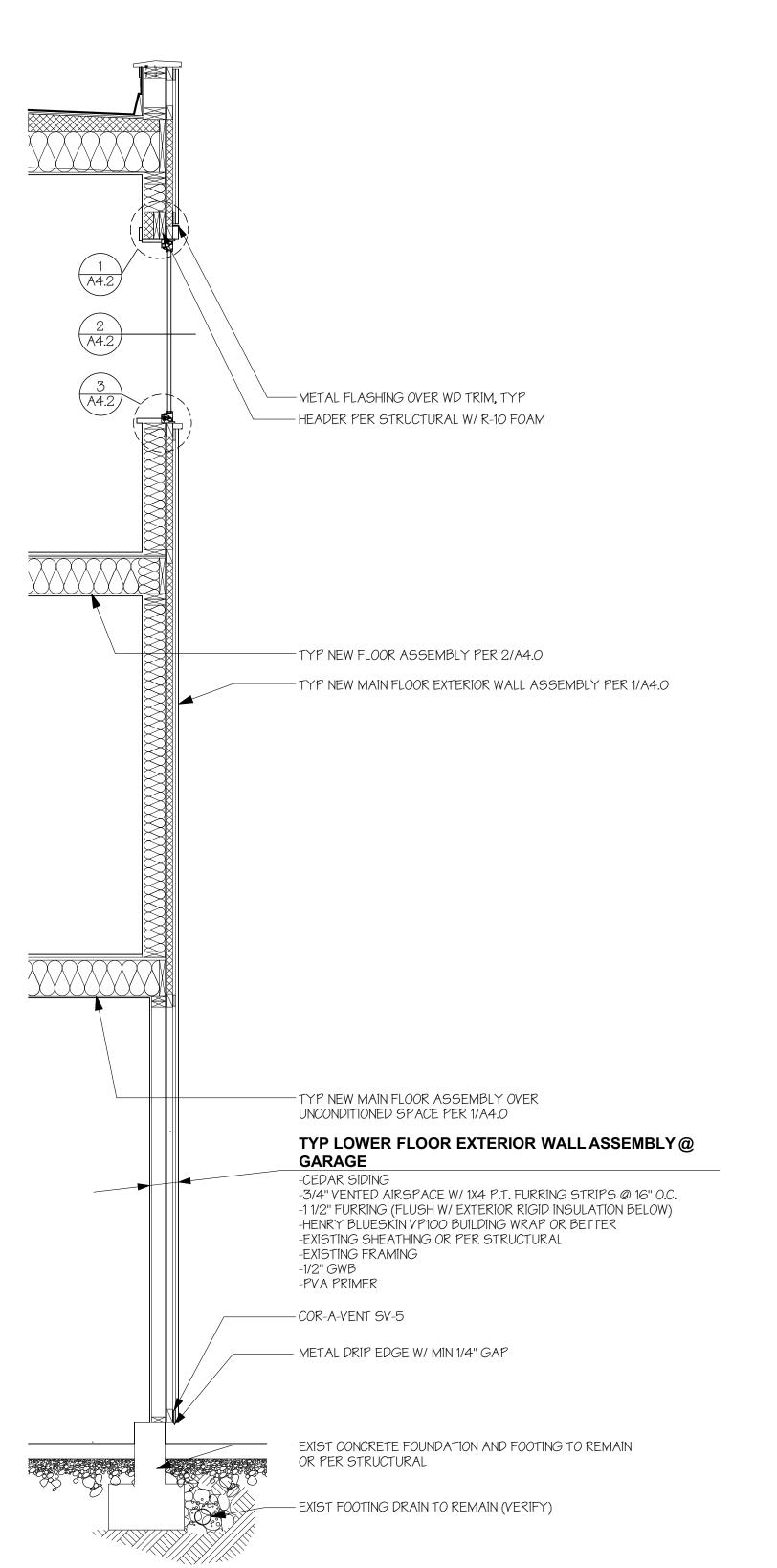
WALL SECTION

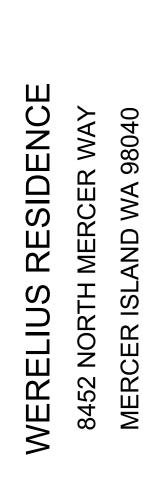


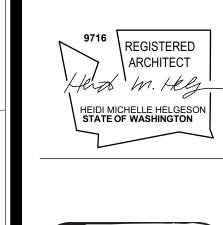




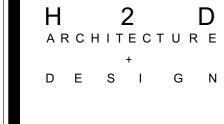






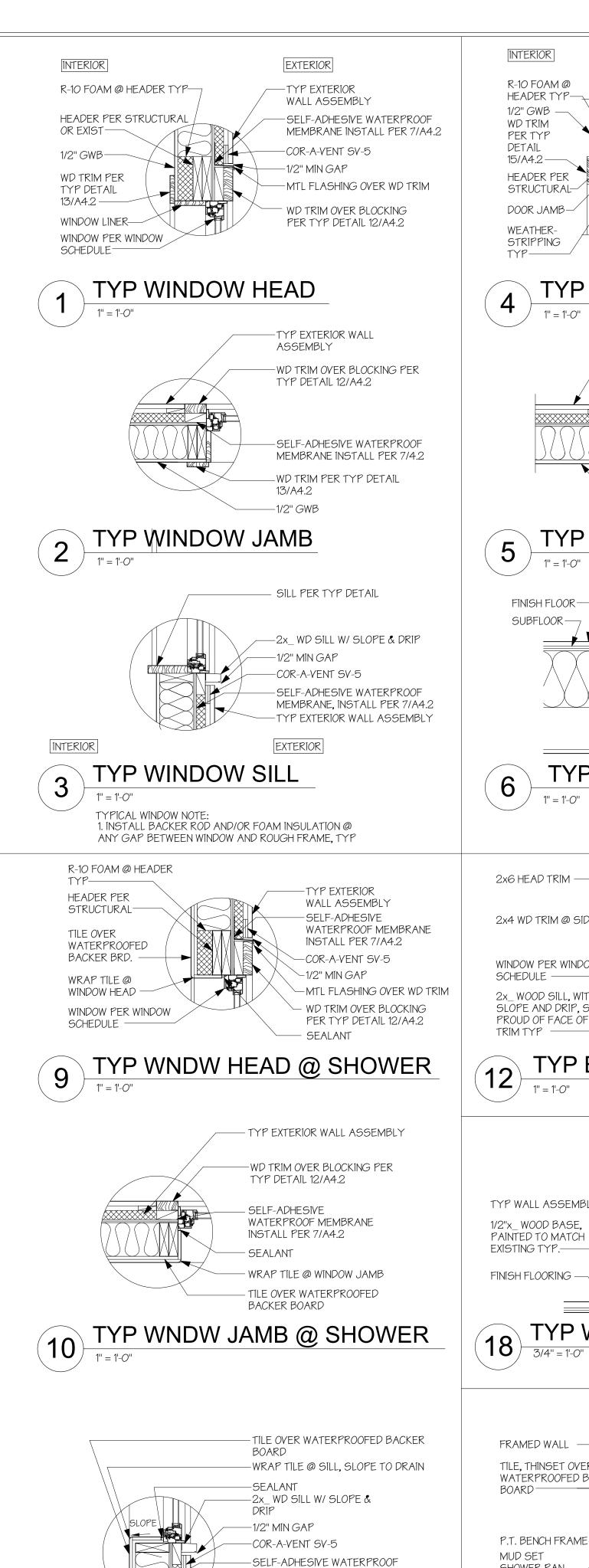






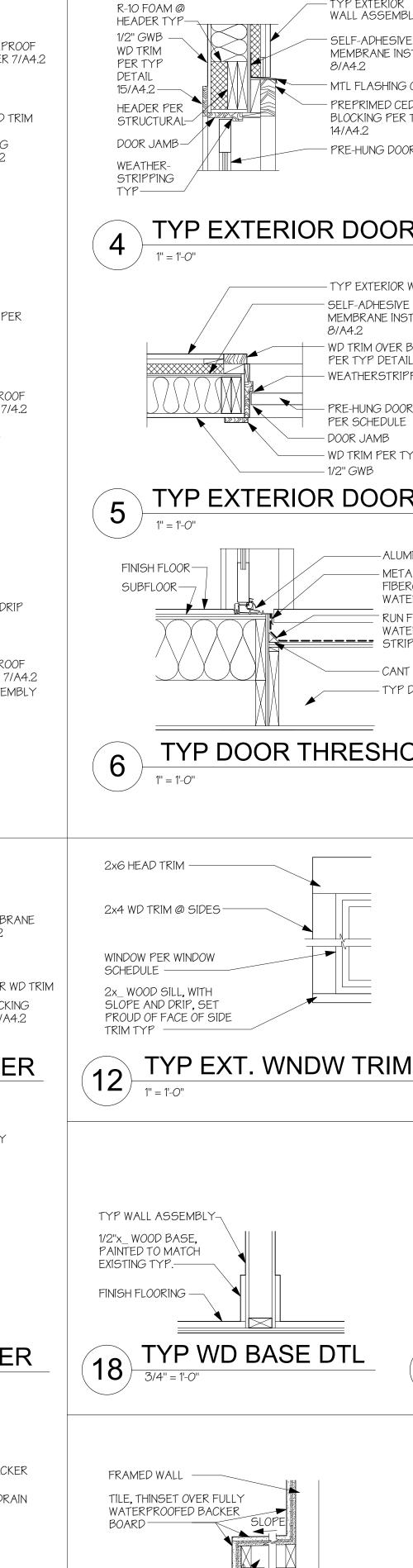
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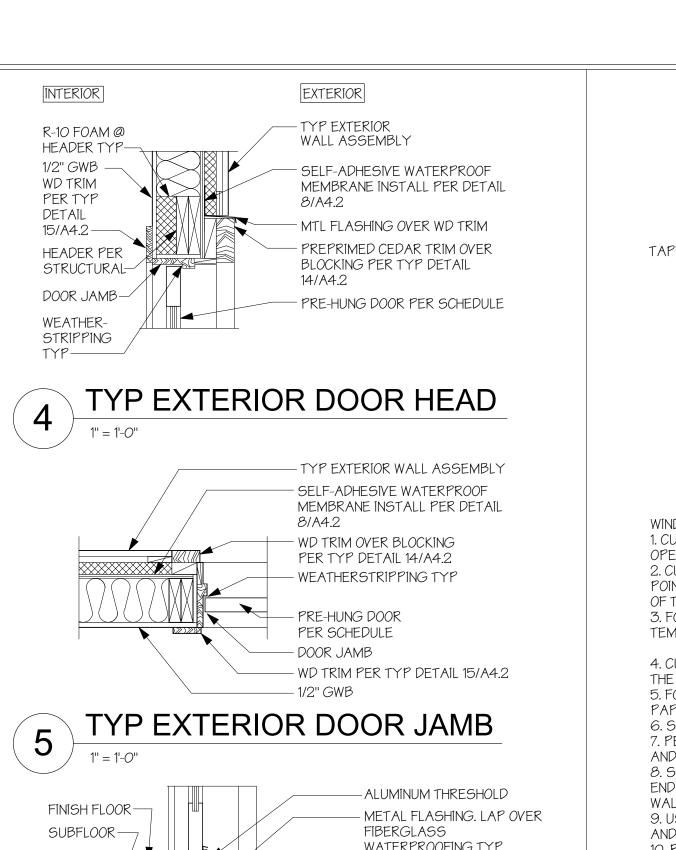
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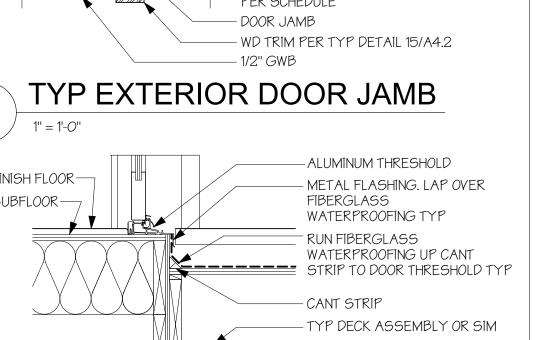


MEMBRANE, INSTALL PER 7/A4.2 TYP EXTERIOR WALL ASSEMBLY

11 TYP WNDW SILL @ SHOWER

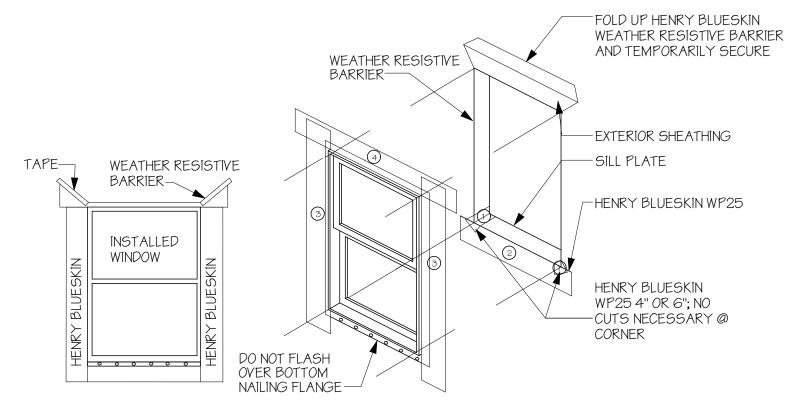






(13)





WINDOW FLASHING 1. CUT THE BLUESKIN FLUSH WITH THE ROUGH OPENING 2. CUT THE BLUESKIN AT 45 DEGREE ANGLE TO A POINT 9 UP AND 9" OUT FROM THE UPPER CORNERS

OF THE ROUGH OPENING 3. FOLD UP BLUESKIN FLAP AT HEAD AND TEMPORARILY SECURE WITH TAPE

4. CUT BLUESKIN WP25 (4") TO FIT THE DEPTH OF THE SILL ADDING 3" OVERHANG TO THE EXTERIOR PAPER

6. SLIDE INTO CORNER 7. PEEL OFF ONE BACKING STRIP AFTER ANOTHER AND PRESS ON FIRMLY 8. STARTING AT THE CORNER, SPREAD THE LOOSE FLASHING END OF THE BLUESKIN WP25 GRADUALLY ONTO THE 21. SEAL THE 45 DEGREE CUTS WITH BLUESKIN WALL FACE 9. USE BOTH THUMBS FOR A UNIFORM APPLICATION

AND PRESS ON FIRMLY 10. REPEAT STEPS 8 AND 9 TO SEAL ALL CORNERS 11. CUT BLUESKIN WP25 6" OR WIDER TO LENGTH (INSIDE TO INSIDE OF THE RO)

13. RELEASE FIRST BACKING PAPER AND SEAL TO 14. PEEL OFF SECOND BACKING PAPER AND SEAL ONTO THE WALL FACE/FACADE AND PRESS ON

12. FOLD BLUESKIN WP25 ALONG THE SPLIT

BACKING PAPER

DOOR, WHERE OCCURS

-FINISH WOOD FLOORING

SCHLUTER SCHIENE

TRANSITION STRIP,

ALUMINUM

-TILE FLOORING

TYP WD TO TILE TRANSITION

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

15. REPEAT STEPS 11-14 TO SEAL ALL EDGES OF THE RO: SILL, JAMBS, AND HEAD 16. INSTALL THE WINDOW ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. UNLESS SPECIFIED, SEALANT IS NOT REQUIRED BEHIND THE NAIL FLANGE

17. USE BLUESKIN WP25 4" OR WIDER TO COUNTER-FLASH THE FLANGE IN WEATHER-LAP FASION 18. BOTTOM FLANGE REMAINS UNTAPED JAMB 5. FOLD BLUESKIN WP25 ALONG THE SPLIT BACKING FLASHING EXTENDS 2" PAST LOWER EDGE OF FLANGE 19. HEAD FLASHING EXTENDS 1" PAST THE OUTER EDGES OF THE JAMB FLASHING

20. DRAPE THE BLUESKIN FLAP OVER THE HEAD

TIE-IN WITH WEATHER RESISTIVE BARRIER INSTRUCTIONS 1. INTEGRATE INSTALLATION OF HENRY BLUESKIN WEATHER-RESISTIVE BARRIER WITH HENRY BLUESKIN WP25 TO FORM WATER SHEDDING LAPS

ALLOW FOR HENTRY BLUESKIN WP25 INSTALLATION 3. INSTALL HENRY BLUESKIN WP25 HEAD FLASHING UNDER WEATHER-4. FOLD WEATHER-RESISTIVE BARRIER BACK OVER HEAD FLASHING AND

SEAL WITH HENRY BLUESKIN TAPE

2. SCORE AND FOLD WEATHER-RESISTIVE BARRIER ABOVE HEADER TO

1. VISIT RESIDENTIAL.HENRY.COM FOR THE MOST CURRENT DETAILS, INSTALLATION VIDEOS AND PRODUCT DATA SHEETS 2. INSTALL HENRY BLUESKIN WP25 IN ORDER AS SHOWN BY

----EXTERIOR SHEATHING

FOLD UP BLUESKIN WEATHER-

BARRIER

-SILL PLATE

@ CORNER

-HENRY BLUESKIN

SEAL TOP OF JOISTS

UNDER DECKING

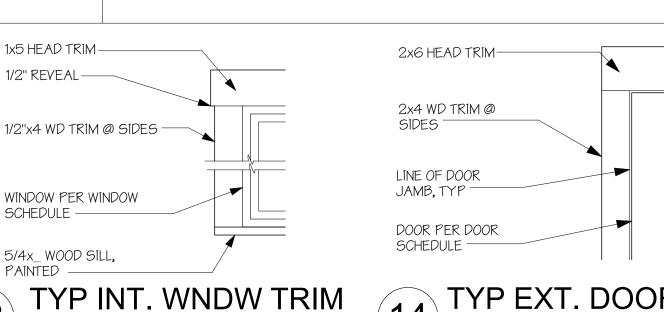
-WEATHER-RESISTIVE

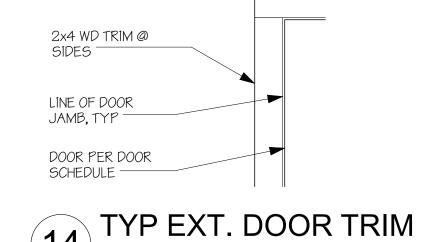
HENRY BLUESKIN WP25

RESISTIVE BARRIER &

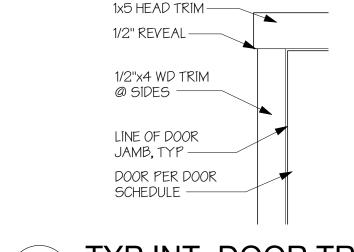
TEMPORARILY SECURE

8 HENRY BLUESKIN WP25 FLASHING DTL @ EXTERIOR

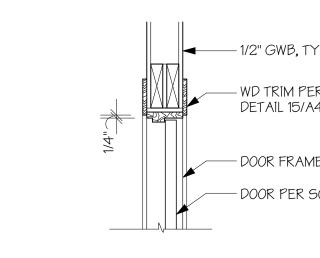


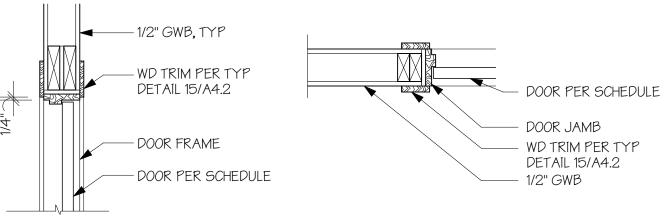


HENRY BLUESKIN WP25 FLASHING DTL



BLUESKIN WP25



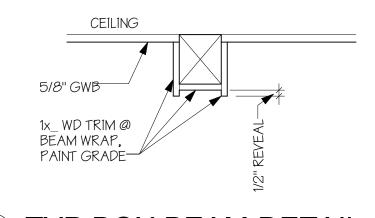


TEMPERED CLEAR

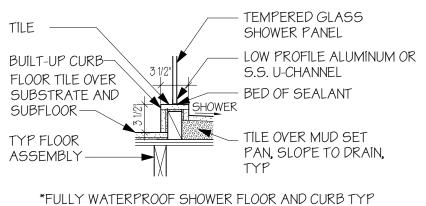


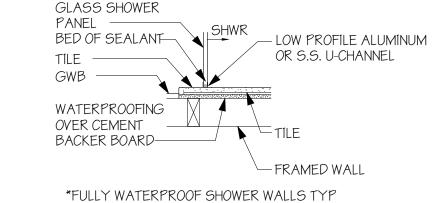












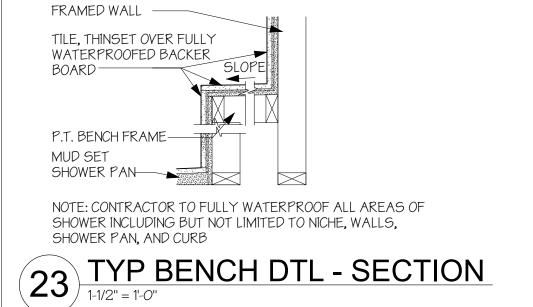
TYP U-CHANNEL DTL @ CURB

TYP U-CHANNEL @ WALL

PLAN VIEW

PERMIT SET

TYP. DETAILS



### CRITERIA

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE INTERNATIONAL BUILDING CODE (2015 EDITION), & SEATTLE BUILDING CODE MODIFICATIONS TO THE INTERNATIONAL BUILDING CODE.

#### 2. DESIGN LOADING CRITERIA:

FLOOR LIVE LOAD (RESIDENTIAL)
FLOOR LIVE LOAD (RESIDENTIAL DECKS) 60 PSF
ROOF SNOW LOAD (Pf)
WIND:
BASIC WIND SPEED (3-SECOND GUST)
WIND IMPORTANCE FACTOR (Iw)
WIND EXPOSURE
TOPOGRAPHICAL FACTOR (Kzt)
EARTHQUAKE:
LAT. / LONG
SEISMIC IMPORTANCE FACTOR (Ie)
SEISMIC USE GROUP
MAPPED SPECTRAL RESPONSE (Ss/S1)
SPECTRAL RESPONSE COEF. (SDS/SD1) 1.11g/0.48g
SEISMIC FORCE RESISTING SYSTÉM: PLYWOOD SHEAR WALLS
DESIGN BASE SHEAR
SEISMIC RESPONSE COEFICIENT (Cs)
SEISMIC DESIGN CATEGORY

REFERENCE: USGS NATIONAL SEISMIC HAZARD MAPPING PROJECT, 2008 DATA

RESPONSE MODIFICATION FACTOR (R) . . . . . . . . . . . . . . . . 6.5

ANALYSIS PROCEDURE . . . . . . . . . . . . . . . . EQUIVALENT LATERAL FORCE

- 3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST VERIFIED. CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO COMMENCING EXCAVATION. THE CONTRACTOR SHALL BRING ALL CONFLICTS AND DISCREPANICES TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- 5. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. EXISTING REINFORCING SHALL BE RETAINED UNDAMAGED WHERE NOTED ON THE PLANS. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF. ALL NEW OPENINGS THROUGH EXISTING CONCRETE OR MASONRY WALLS, SLABS AND BEAMS SHALL BE ACCOMPLISHED BY SAW CUTTING WHEREVER POSSIBLE.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONCONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 8. SPECIAL INSPECTION OF EPOXY GROUTED INSTALLATIONS SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 109 AND 1704 OF THE INTERNATIONAL BUILDING CODE AND THE PROJECT SPECIFICATIONS 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.
- 9. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

A. STRUCTURAL STEEL

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

# GEOTECHNICAL

10. 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 (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) 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.

SOILS REPORT REFERENCE: PANGEO INCORPORATED. FILE NO. 19-150

#### CONCRETE

11. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORD-ANCE WITH ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF F'C = 2,500 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.

THE MINIMUM AMOUNTS OF CEMENT AND MAXIMUM AMOUNTS OF WATER MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE CONCRETE 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 301. 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.

- ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR—ENTRAINED WITH AN AIR—ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH TABLE 19.3.2.1 OF THE ACI 318.
- 12. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- 13. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 318. LAP ALL CONTINUOUS REINFORCEMENT 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
- 15. 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

- 16. EXPANSION BOLTS INTO CONCRETE AND GROUTED MASONRY UNITS SHALL BE "STRONG-BOLT" ANCHORS AS MANUFACTURED BY THE SIMPSON COMPANY AND INSTALLED IN STRICT ACCORDANCE WITH ICC ESR 1771, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS.
- 17. EPOXY-GROUTED ITEMS SPECIFIED ON THE DRAWINGS SHALL BE GROUTED WITH "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON COMPANY AND INSTALLED IN STRICT ACCORDANCE WITH ICC ESR 2508.

# STEEL

- 18. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE LATEST EDITIONS OF THE AISC SPECIFICATIONS AND CODES:
  - A. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360)
  - B. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES (AISC 303)
  - C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. BOLTS IN SHEAR OR BEARING TYPE CONNECTIONS NEED ONLY BE TIGHTENED TO THE SNUG TIGHT CONDITION PER SECTION 8(C).
- 19. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING MINIMUM STANDARDS. PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36, FY = 36 KSI. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, FY = 50 KSI. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, FY = 35 KSI. SQUARE OR RECTANGULAR STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, FY = 46 KSI. ANCHOR BOLTS AND CONNECTION BOLTS SHALL CONFORM TO ASTM A36.
- 20. 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.

# WOOD

21. FRAMING LUMBER SHALL BE KILN DRIED OR MC-15, AND GRADED AND MARKED IN CON-FORMANCE WITH WCLIB STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17, LATEST EDITION. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS: (2X MEMBERS)

HEM-FIR NO. 2

MINIMUM BASE VALUE, FB = 850 PSI

DOUGLAS FIR NO. 1

MINIMUM BASE VALUE, FB = 1000 PSI

STRUCTURAL LIGHT FRAMING: DOUGLAS FIR NO. 2

(INCL. 3X AND 4X POSTS) MINIMUM BASE VALUE, FB = 900 PSI

BEAMS AND STRINGERS: DOUGLAS FIR NO. 1
(INCL. 6X AND LARGER) MINIMUM BASE VALUE, FB = 1350 PSI

POSTS AND TIMBERS: DOUGLAS FIR NO. 1
(6X6 AND LARGER) MINIMUM BASE VALUE, FC = 1000 PSI

STUDS, PLATES & MISC. FRAMING: DOUGLAS FIR OR HEM-FIR STANDARD GRADE

2X6 STUDS AND PLATES: HEM-FIR NO. 3/ STUD GRADE

2X AND 3X T & G DECKING HEM-FIR COMMERICAL DEX,
MINIMUM BASE VALUE, FB = 1350 PSI

22. ENGINEERED LUMBER MEMBERS SHALL BE MANUFACTURED UNDER A PROCESS BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. ALL LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPROPRIATE NER REPORT AND GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER.

PSL FB = 2900 PSI E = 2000 KSI FV = 290 PSI NER-292 LSL FB = 2250 PSI E = 1500 KSI FV = 285 PSI NER-481 LVL FB = 2600 PSI E = 1800 KSI FV = 285 PSI NER-126

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

ALL PROPOSED HOLE SIZES AND LOCATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL TWO WORKING DAYS PRIOR TO DRILLING HOLES.

PREFABRICATED PLYWOOD WEB JOIST DESIGN SHOWN ON PLANS IS BASED ON JOISTS MANUFACTURED BY THE WEYERHAUSER CORPORATION AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS, STIFFENERS, ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALTERNATE PLYWOOD WEB JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH PLYWOOD WEB JOIST PROVIDED.

ALL HOLES SHALL CONFORM TO THE MANUFACTURERS SPECIFICATIONS. IF THREE OR FEWER HOLES ARE PROPOSED FOR A SINGLE JOIST, HOLES SHALL CONFORM TO THE WEYERHAUSER ILEVEL TJI ALLOWABLE HOLE CHART. IF MORE THEN THREE HOLES ARE PROPOSED FOR ONE SINGLE JOIST, ALL HOLE SIZES AND LOCATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL TWO WORKING DAYS PRIOR TO DRILLING HOLES.

24. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH APA STANDARDS. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND SPAN RATING MAY BE USED IN LIEU OF PLYWOOD.

A. ROOF SHEATHING SHALL BE 1/2" (NOM.) WITH SPAN RATING 24/0.

B. FLOOR SHEATHING SHALL BE 3/4" (NOM.) WITH SPAN RATING 40/20
C. WALL SHEATHING SHALL BE 1/2" (NOM.) WITH SPAN RATING 24/0.

# REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING.

- 25. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE—
  TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED
  BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR
  MASONRY. ALL WOOD EXPOSED TO WEATHER WITHOUT THE ADEQUATE PROTECTION OF
  A ROOF OR EAVE SHALL BE AN APPROVED WOOD OF NATURAL RESISTANCE TO DECAY
  OR PRESSURE TREATED. SUCH MEMBERS INCLUDE HORIZONTAL MEMBERS SUCH AS
  GIRDERS, JOISTS, AND DECKING; OR VERTICAL MEMBERS SUCH AS POSTS, POLES,
  AND COLUMNS.
- 26. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR MOST RECENT CATALOG. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. UN-LESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON. ALL SHIMS SHALL BE SEA-SONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. HANGERS IN DIRECT CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE EITHER STAINLESS STEEL (SST300), POST HOT-DIPPED GALVANIZED(HDG) OR GALVANIZED WITH A MINI-MUM OF 1.850Z ZINC PER SQUARE INCH (ZMAX). UNLESS NOTED OTHERWISE, ALL LUMBER JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS, AND ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITT" OR "IUT" SERIES JOIST HANGERS.
- 27. NAILS NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETE
6D	2"	0. 113"
8D	2-1/2"	0. 131"
10D	3"	0. 148"
12D	3-1/4"	0. 148"
16D	3-1/2"	0. 162"

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 SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

28. TONGUE AND GROOVE STRUCTURAL ROOF AND FLOOR DECKING SHALL BE INSTALLED AS FOLLOWS: 2X DECKING SHALL BE TOENAILED THROUGH THE TONGUE AND FACENAILED WITH ONE 16D NAIL PER PIECE PER SUPPORT. 3X AND 4X DECKING SHALL BE

TOENAILED WITH ONE 40D NAIL AND FACENAILED WITH ONE 60D NAIL PER SUPPORT. COURSES SHALL BE SPIKED TOGETHER WITH 8" SPIKES AT 30" O.C. (MAXIMUM) AND AT 10" (MAXIMUM) FROM EACH END OF EACH PIECE. SPIKES SHALL BE INSTALLED IN PREDRILLED EDGE HOLES.

- 29. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN:
  - A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 2304. 10. 1 OF THE INTERNATIONAL BUILDING CODE. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD.
  - B. WALL FRAMING: ALL STUD WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 2X4 STUDS @ 16" O.C. AT INTERIOR WALLS AND 2X6 @ 16" O.C. AT EXTERIOR WALLS. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. TWO 2X8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COL-UMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16D NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16D NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16D AT 12" O.C. AND LAP MINIMUM 4'-O" AT JOINTS AND PROVIDE SIX 16D NAILS AT 4" O.C. EACH SIDE OF JOINT. ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16D NAILS AT 12" O.C. STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS (WITH 7" MINIMUM EMBEDMENT)@ 4'-0" O.C. UNLESS INDICATED OTHERWISE. INDIVI-DUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH 16D @ 12" O.C. STAGGERED. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHING AND NAILING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES NAILED TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING WITH NAILS AT 7" O.C. USE 5D COOLER NAILS FOR 1/2" GWB AND 6D COOLER NAILS FOR 5/8" GWB. WHEN NOT OTHERWISE NOTED, PROVIDE 1/2" (NOM.) APA RATED SHEATHING (SPAN RATING 24/0) ON EXTERIOR SURFACES NAILED AT ALL PANEL EDGES (BLOCK UNSUPPORTED EDGES), TOP AND BOTTOM PLATES WITH 8D @ 6" O.C. AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8D @ 12" O.C. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS.
  - C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH TWO 16D NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH METAL JOIST HANGERS IN ACCORDANCE WITH TIMBER CONNECTOR NOTE. NAIL ALL MULTI-JOIST BEAMS TO-GETHER WITH 16D @ 12" O.C. STAGGERED. UNLESS OTHERWISE NOTED ON THE PLANS, ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND NAILED WITH 8D NAILS @ 6" O.C. TO FRAMED PANEL EDGES AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" O.C. TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF ALL ROOF AND FLOOR SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16D @ 12" O.C. UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2X BLOCKING AT ALL UNFRAMED PLYWOOD PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED.

# $\perp$ HV

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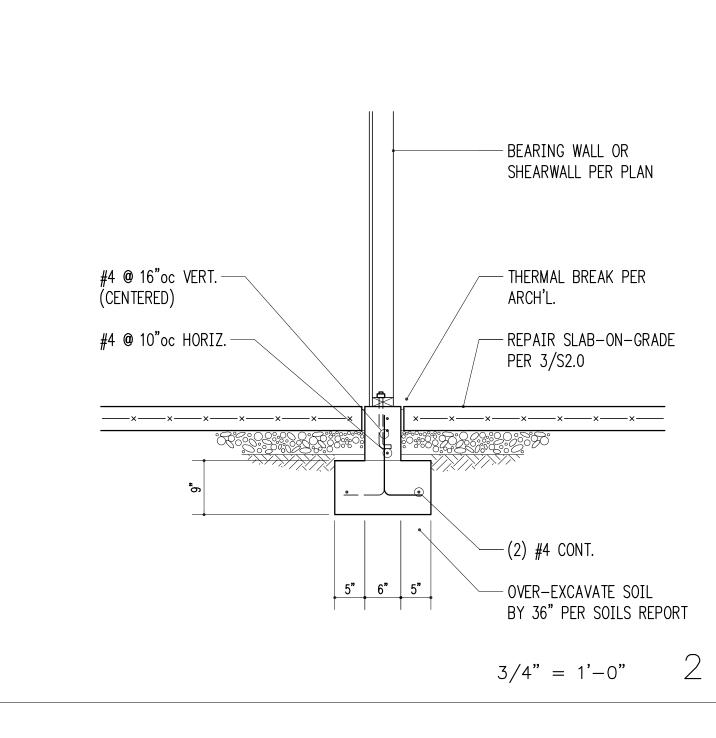
Issue Date	Issue Description
6/18/19	Permit
7/16/19	Framing Revisions
7/26/19	Framing Revisions

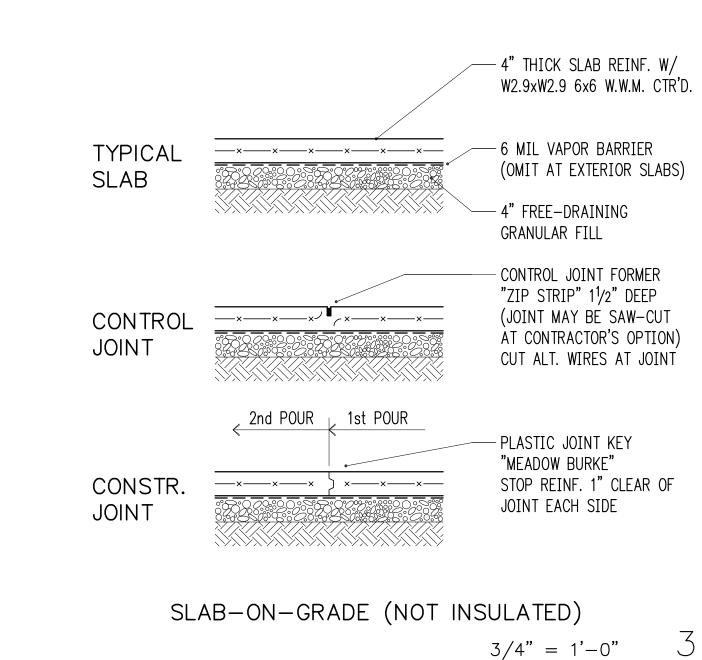
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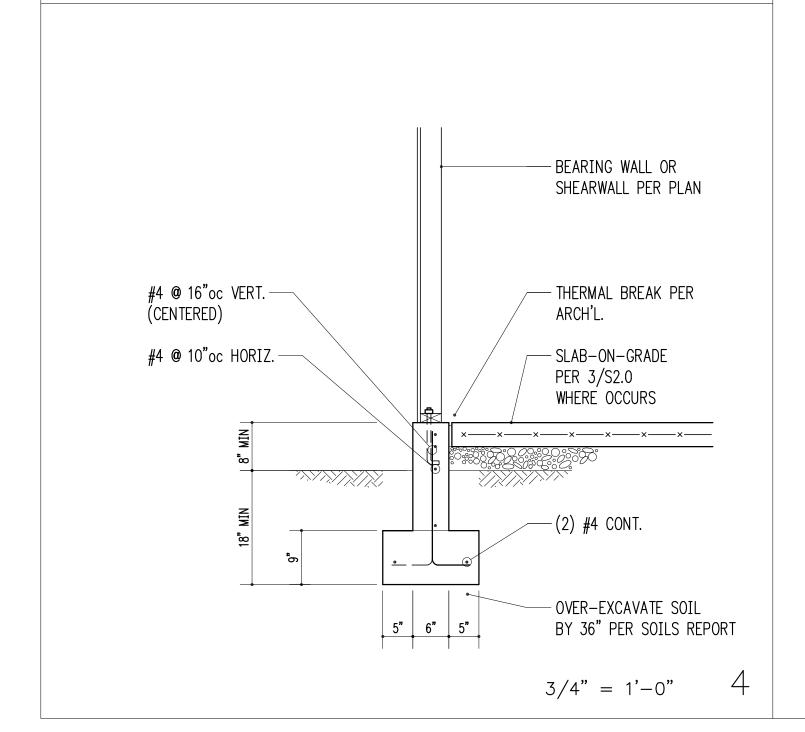
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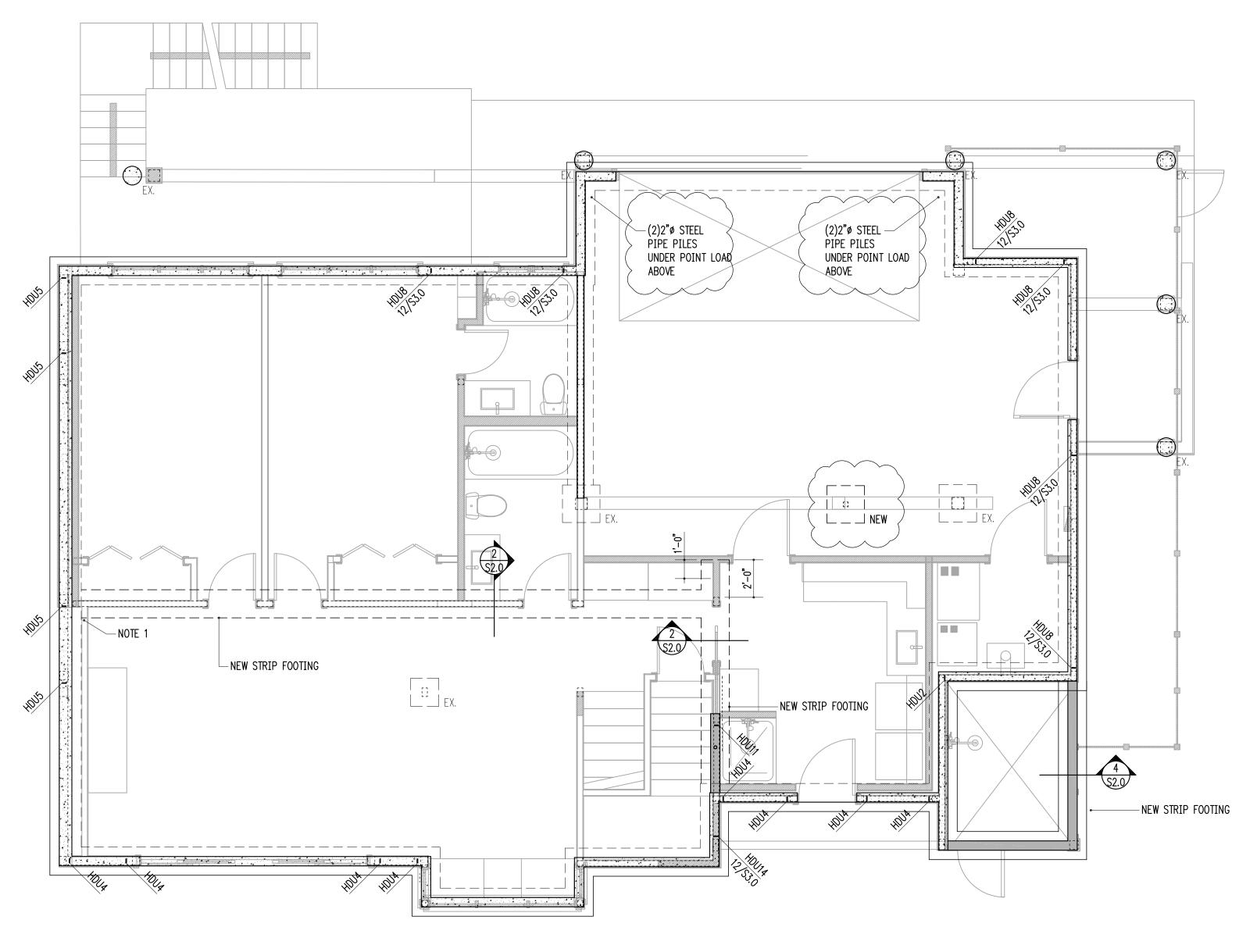
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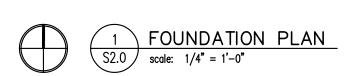
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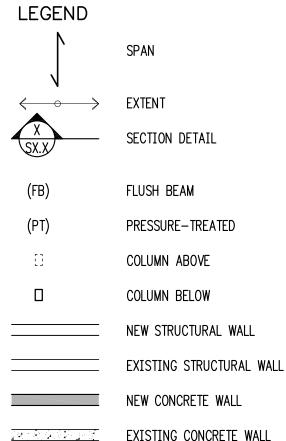




# HANGER SCHEDULE

MEMBER (FLAT ONLY)	HANGER	FACE NAILING	CAPACITY (Cd = 1.0)				
2x10 or 2x12	LUS210	10d COMMON	1275 lb				
(2)2x10	HUS210-2	0.162x3 <sup>1</sup> /2	2110 lb				
4x10	HUC410	0.162x3 <sup>1</sup> /2	2680 lb				
11 <sup>7</sup> /8" TJI 560	IUS3.56/11.88	10d COMMON	1405 lb				
(2) 1 <sup>3</sup> /4x9 <sup>1</sup> /4 LVL	HUC410	0.162x3 <sup>1</sup> /2	2680 lb				

NOTE!! EXISTING FRAMING MEMBERS AS INDICATED ON THIS PLAN ARE ASSUMED FOR DESIGN PURPOSES ONLY. HARRIOTT VALENTINE ENGINEERS SHALL NOT BE HELD LIABLE FOR LOCATION/ SIZE OF EXISTING MEMBERS AS CALLED ON THIS PLAN. EXISTING MEMBERS SHALL BE VERIFIED AND REPORTED TO STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.



# EXISTING CONCRETE WALL

# ALL—THREAD HOLDOWN AT END OF SHEARWALL ABOVE STRAP HOLDOWN AT END OF SHEARWALL ABOVE

# FOUNDATION PLAN NOTES

- 1. WHERE NEW CONCRETE WALLS OR FOOTING ABUT EX. CONCRETE, PROVIDE DOWELS #4 x 2'-0" TO MATCH HORIZ. REINFORCING, EMBED 5" IN EPOXY GROUT.
- 2. SEE 10/S4.0 FOR TYPICAL HOLDOWN REQUIREMENTS AT CONCRETE WALLS AND FOOTINGS.
- 3. SLAB-ON-GRADE SHALL BE PLACED AND CURED FOR A MINIMUM OF SEVEN DAYS BEFORE RETAINING WALLS ARE BACKFILLED. SEE RETAINING WALL DETAILS FOR SPECIFIC CONFIGURATION.
- 4. SEE 11/S3.0 FOR CORNER REINFORCING AT NEW CONCRETE STEMS AND FOOTINGS

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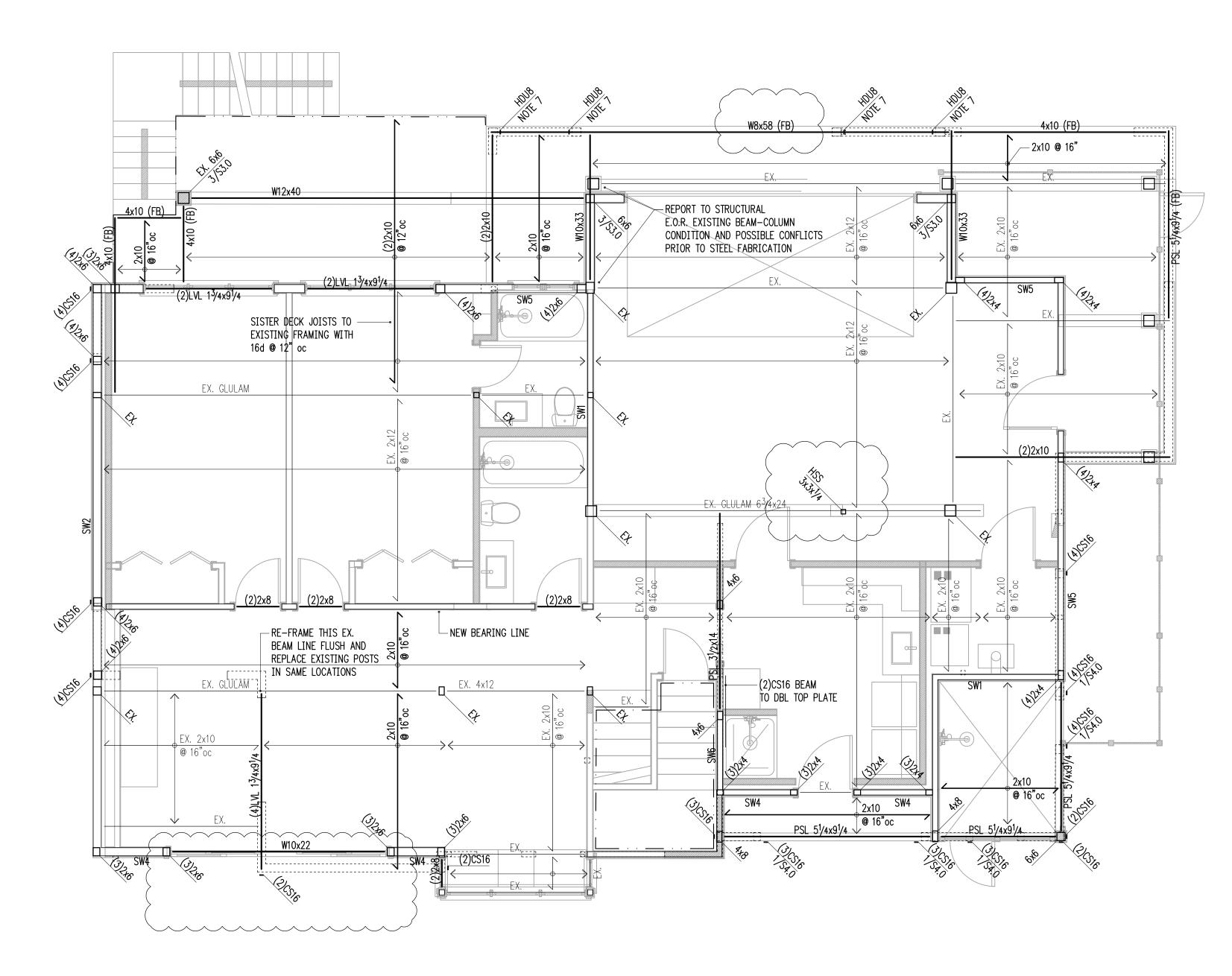
Werelius Residence 8452 North Mercer Way Mercer Island, WA 98040

Issue Date	Issue Description
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**FOUNDATION PLAN** 

**Drawing Number** 



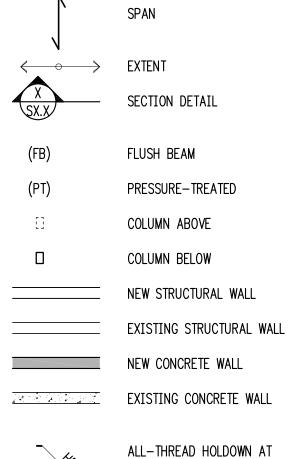
1 MAIN FL S2.1 scale: 1/4" = 1

1 MAIN FLOOR FRAMING PLAN (BASEMENT WALLS)

# HANGER SCHEDULE

MEMBER (FLAT ONLY)	HANGER	FACE NAILING	CAPACITY (Cd = 1.0)
2x10 or 2x12	LUS210	10d COMMON	1275 lb
(2)2x10	HUS210-2	0.162x3 <sup>1</sup> /2	2110 lb
4x10	HUC410	0.162x3 <sup>1</sup> /2	2680 lb
11 <sup>7</sup> /8" TJI 560	IUS3.56/11.88	10d COMMON	1405 lb
(2) 1 <sup>3</sup> /4x9 <sup>1</sup> /4 LVL	HUC410	0.162x3 <sup>1</sup> /2	2680 lb

NOTE!! EXISTING FRAMING MEMBERS AS INDICATED ON THIS PLAN ARE ASSUMED FOR DESIGN PURPOSES ONLY. HARRIOTT VALENTINE ENGINEERS SHALL NOT BE HELD LIABLE FOR LOCATION/ SIZE OF EXISTING MEMBERS AS CALLED ON THIS PLAN. EXISTING MEMBERS SHALL BE VERIFIED AND REPORTED TO STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION.



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LEGEND

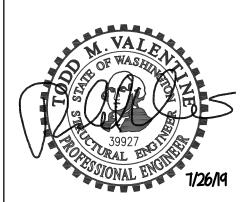
STRAP HOLDOWN AT END OF SHEARWALL ABOVE

# FRAMING PLAN NOTES

- 1. SW\_\_ INDICATES SHEARWALL TYPE PER SCHEDULE 8/S4.0. REFER TO DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
- 2. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
- 3. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
- 4. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.
- CS\_\_ INDICATES COILED STRAP TYPE PER SCHEDULE 6/S4.0. REFER TO DETAILS FOR TYPICAL STRAP ASSEMBLY.
- 6. POSTS □, INCLUDING ENDS OF WALL OPENINGS, SHALL BE (2)2x6 UNLESS NOTED OTHERWISE.
- 7. WELD THREADED RODS FOR HOLD DOWNS AND BOTTOM PLATE ATTACHMENT TO STEEL BEAMS BELOW

HV

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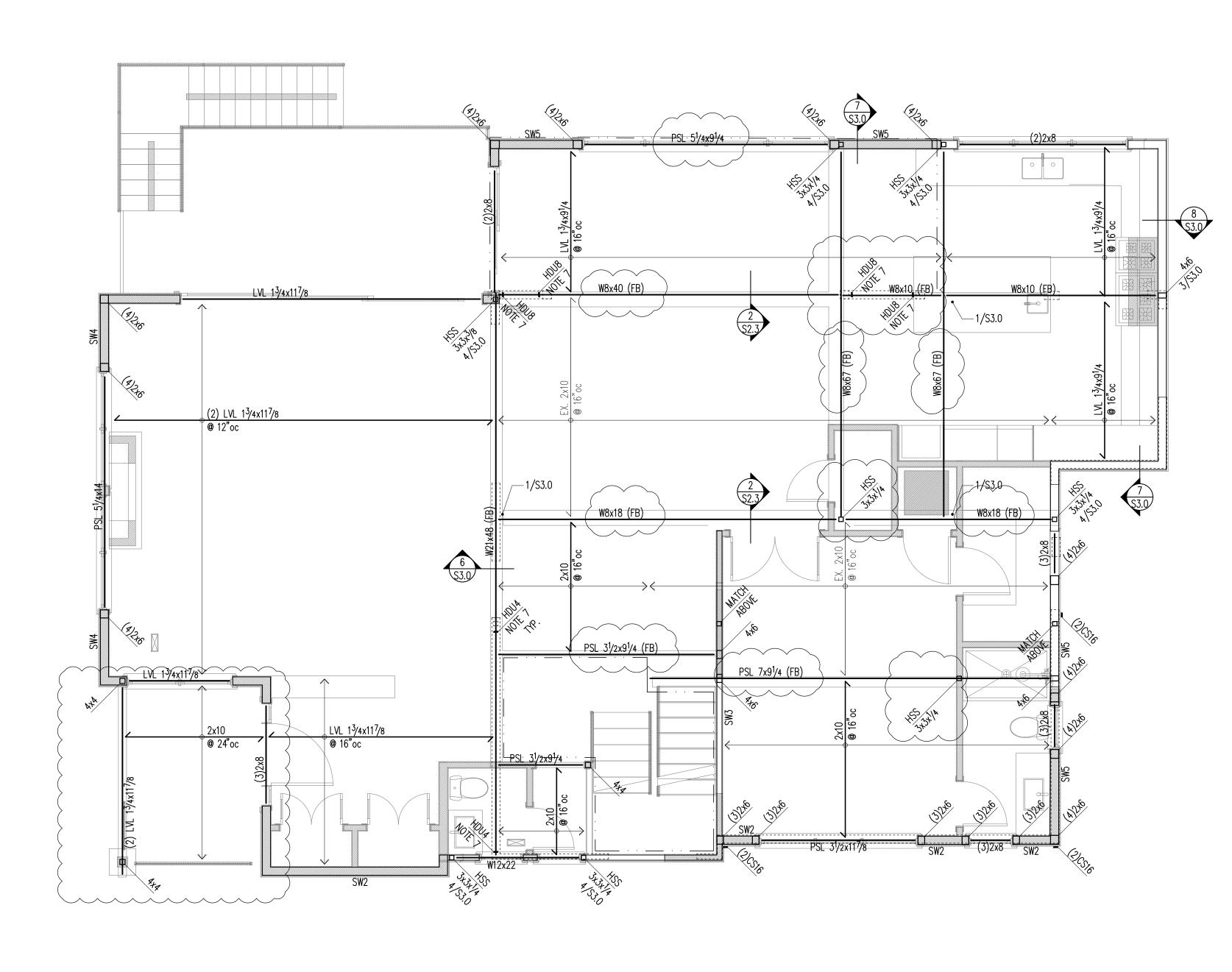
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7/26/19	Framing Revisions
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**Building Department Approval** 

Drawing Title
MAIN FLOOR
FRAMING PLAN

Drawing Number

**S2.1** 



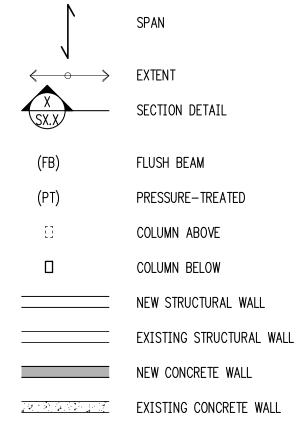
1 SECOND FLOOR FRAMING PLAN (MAIN FLOOR WALLS)

S2.2 scale: 1/4" = 1'-0"

# HANGER SCHEDULE

MEMBER (FLAT ONLY)	HANGER	FACE NAILING	CAPACITY (Cd = 1.0)
2x10 or 2x12	LUS210	10d COMMON	1275 lb
(2)2x10	HUS210-2	0.162x3 <sup>1</sup> /2	2110 lb
4x10	HUC410	0.162x3 <sup>1</sup> /2	2680 lb
11 <sup>7</sup> /8" TJI 560	IUS3.56/11.88	10d COMMON	1405 lb
(2) 1 <sup>3</sup> /4x9 <sup>1</sup> /4 LVL	HUC410	0.162x3 <sup>1</sup> /2	2680 lb

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LEGEND

ALL-THREAD HOLDOWN AT END OF SHEARWALL ABOVE

STRAP HOLDOWN AT END OF SHEARWALL ABOVE

# FRAMING PLAN NOTES

- SW\_\_ INDICATES SHEARWALL TYPE PER SCHEDULE 8/S4.0. REFER TO DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
- 2. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
- 3. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
- 4. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.
- 5. CS\_\_ INDICATES COILED STRAP TYPE PER SCHEDULE 6/S4.0. REFER TO DETAILS FOR TYPICAL STRAP ASSEMBLY.
- 6. POSTS □, INCLUDING ENDS OF WALL OPENINGS, SHALL BE (2)2x6 UNLESS NOTED OTHERWISE.
- 7. WELD THREADED RODS FOR HOLD DOWNS AND BOTTOM PLATE ATTACHMENT TO STEEL BEAMS BELOW

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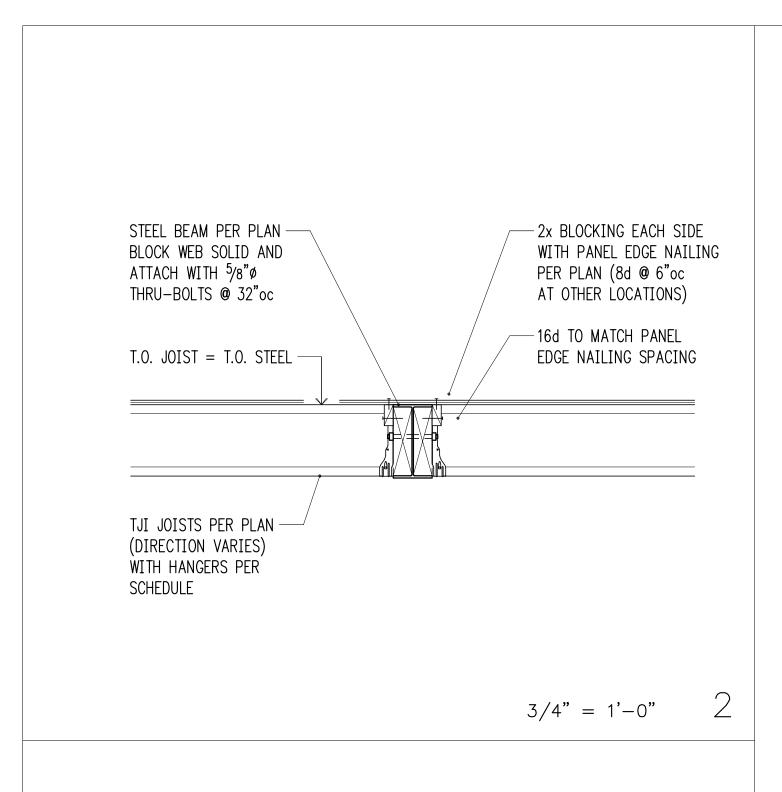
Issue Date	Issue Description
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7/16/19	Framing Revisions
7/26/19	Framing Revisions
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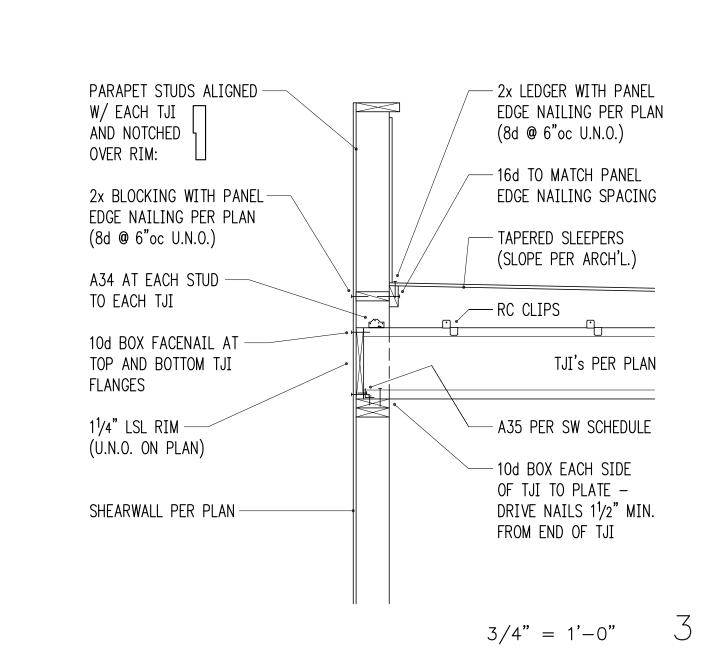
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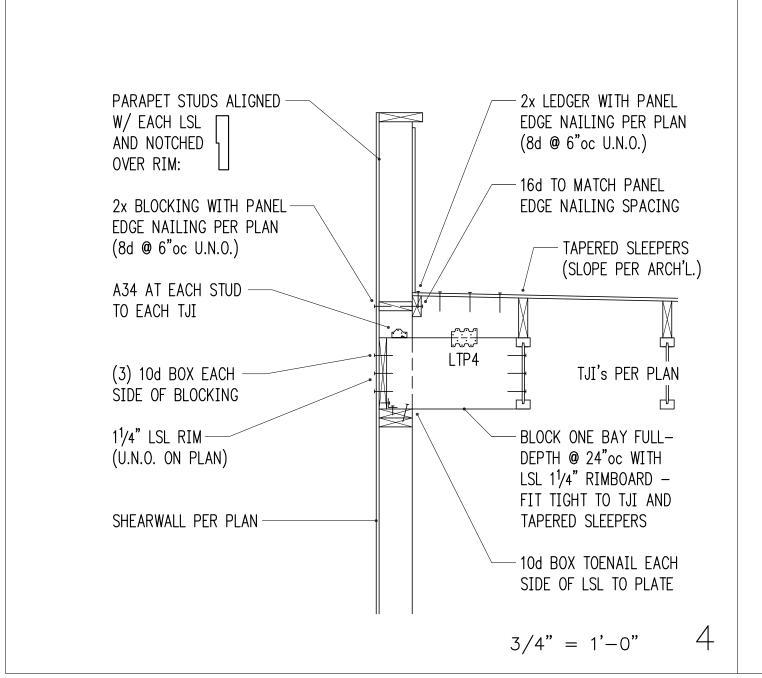
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SECOND FLOOR
FRAMING PLAN

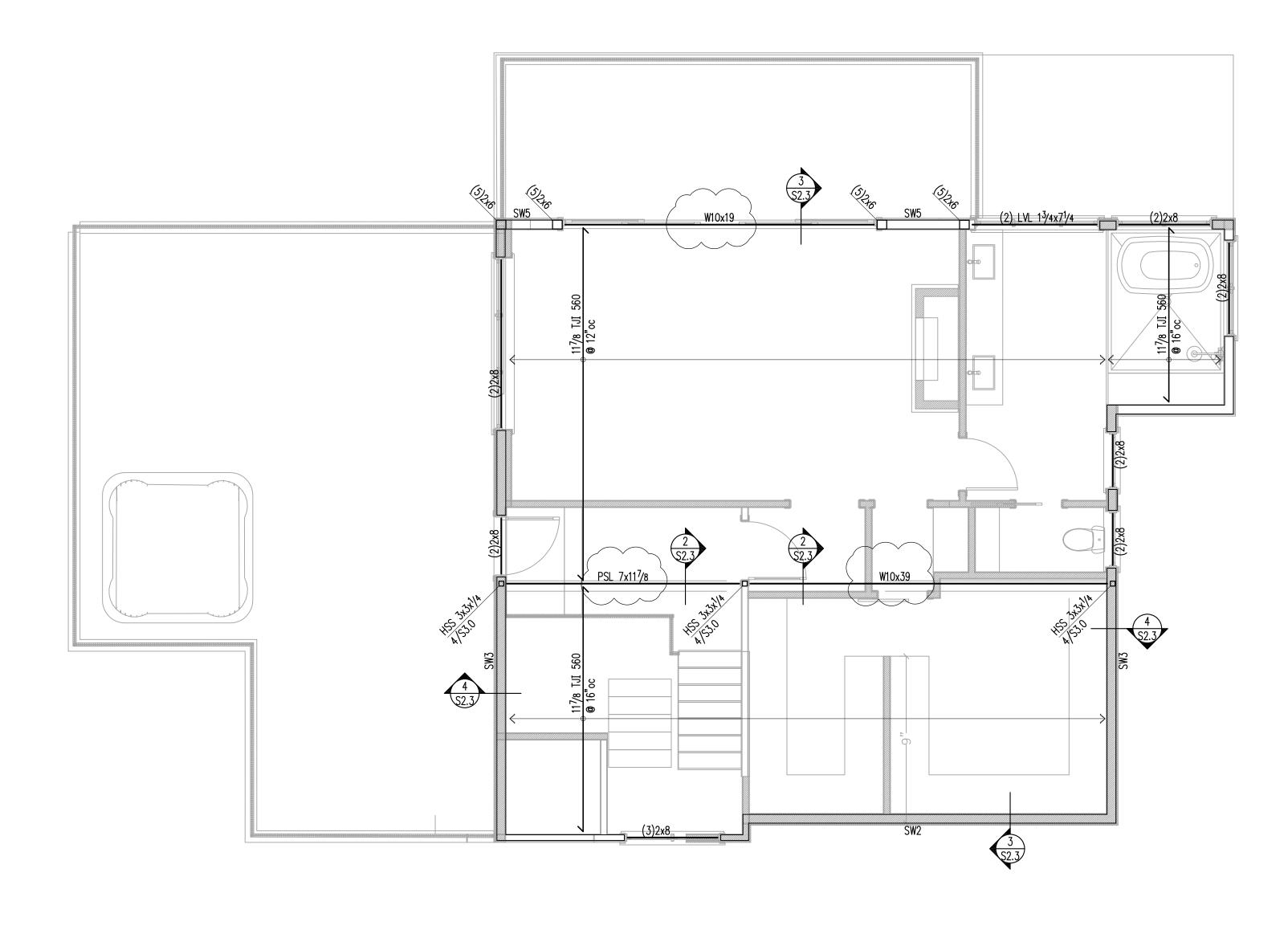
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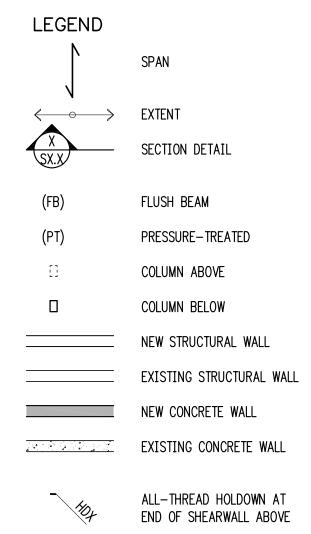




# HANGER SCHEDULE

MEMBER (FLAT ONLY)	HANGER	FACE NAILING	CAPACITY (Cd = 1.0)
2x10 or 2x12	LUS210	10d COMMON	1275 lb
(2)2x10	HUS210-2	0.162x3 <sup>1</sup> /2	2110 lb
4x10	HUC410	0.162x3 <sup>1</sup> /2	2680 lb
11 <sup>7</sup> /8" TJI 560	IUS3.56/11.88	10d COMMON	1405 lb
(2) 1 <sup>3</sup> /4x9 <sup>1</sup> /4 LVL	HUC410	0.162x3 <sup>1</sup> /2	2680 lb

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STRAP HOLDOWN AT

END OF SHEARWALL ABOVE

# FRAMING PLAN NOTES

- 1. SW\_\_ INDICATES SHEARWALL TYPE PER SCHEDULE 8/S4.0. REFER TO DETAILS FOR TYPICAL SHEARWALL CONSTRUCTION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
- 2. REFER TO GENERAL STRUCTURAL NOTES FOR FLOOR OR ROOF SHEATHING TYPE, THICKNESS, AND NAILING.
- 3. COLUMNS SHALL BE DOUBLE STUD MINIMUM, UNLESS NOTED OTHERWISE. SEE 11/S4.0.
- 4. AT ALL SHEARWALLS PROVIDE DOUBLE TOP PLATES AND SPLICE PER 12/S4.0.
- 5. CS\_\_ INDICATES COILED STRAP TYPE PER SCHEDULE 6/S4.0. REFER TO DETAILS FOR TYPICAL STRAP ASSEMBLY.
- 6. POSTS □, INCLUDING ENDS OF WALL OPENINGS, SHALL BE (2)2x6 UNLESS NOTED OTHERWISE.

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7/16/19	Framing Revisions
7/26/19	Framing Revisions

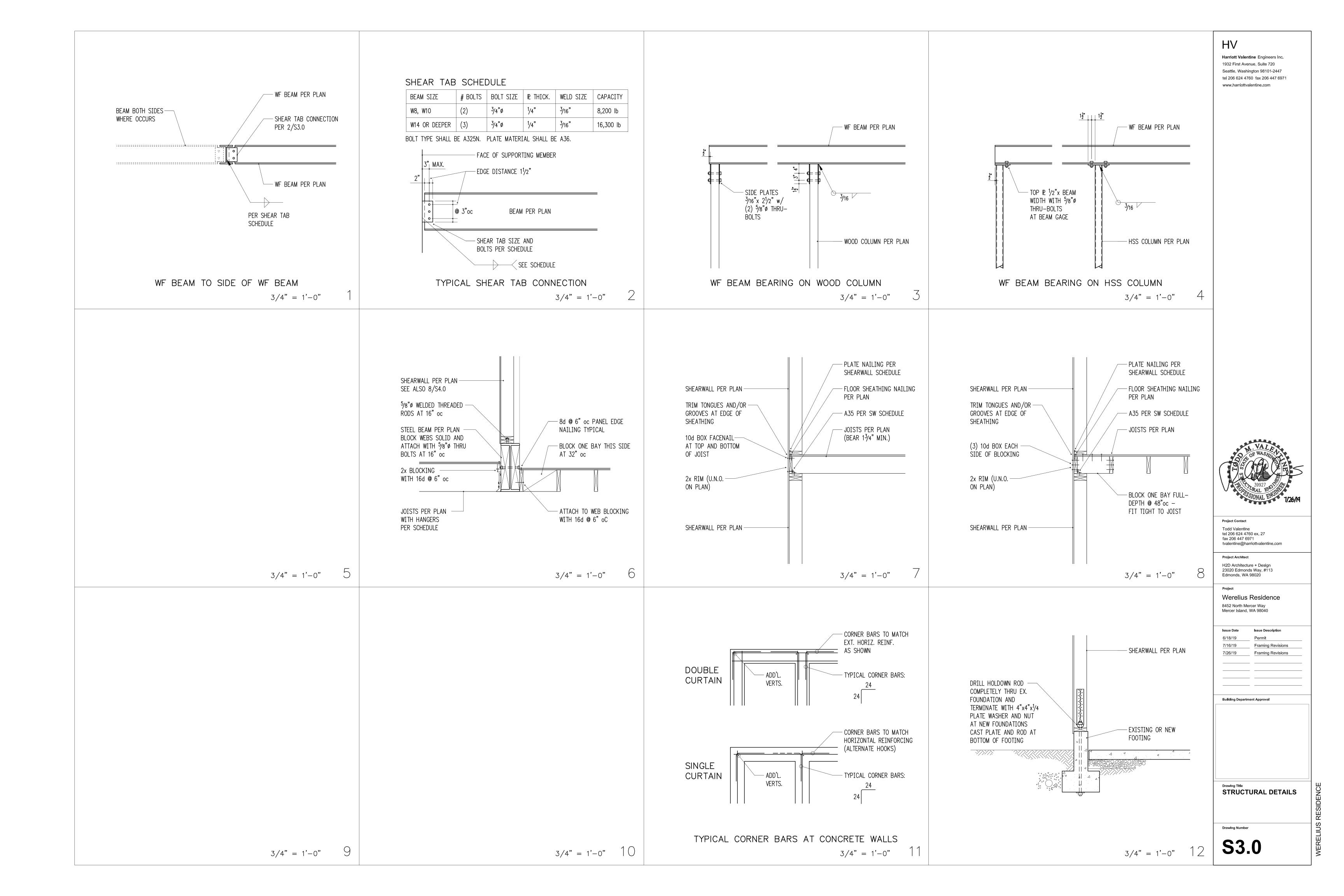
Building Department Approval

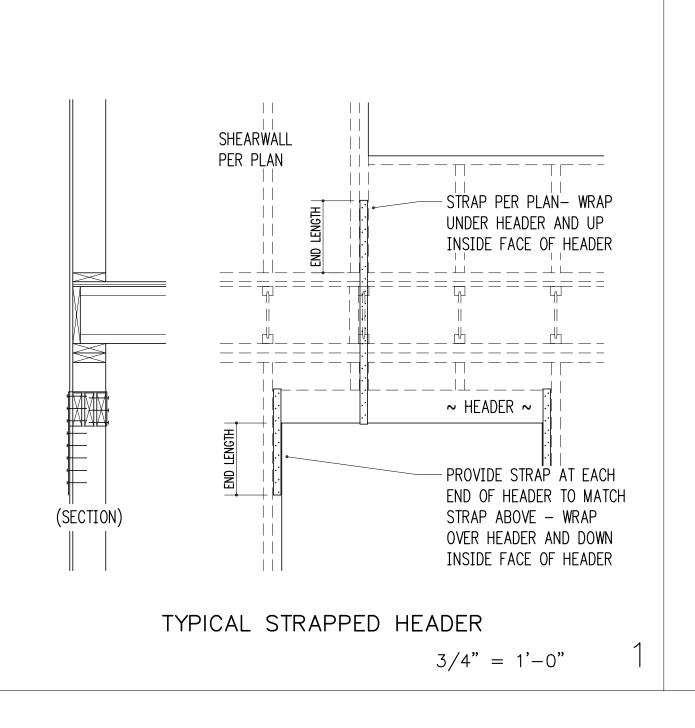
Drawing Title
ROOF
FRAMING PLAN

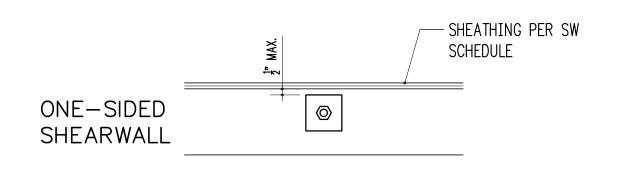
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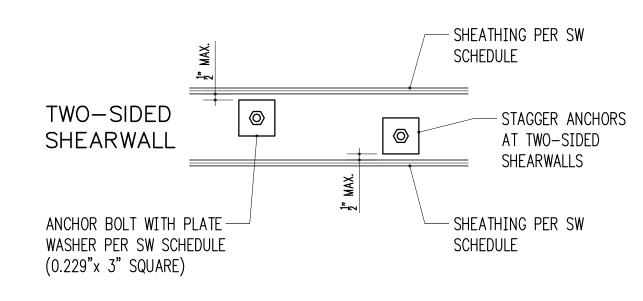
**S2.3** 

WEREI IIS RESIDENCE







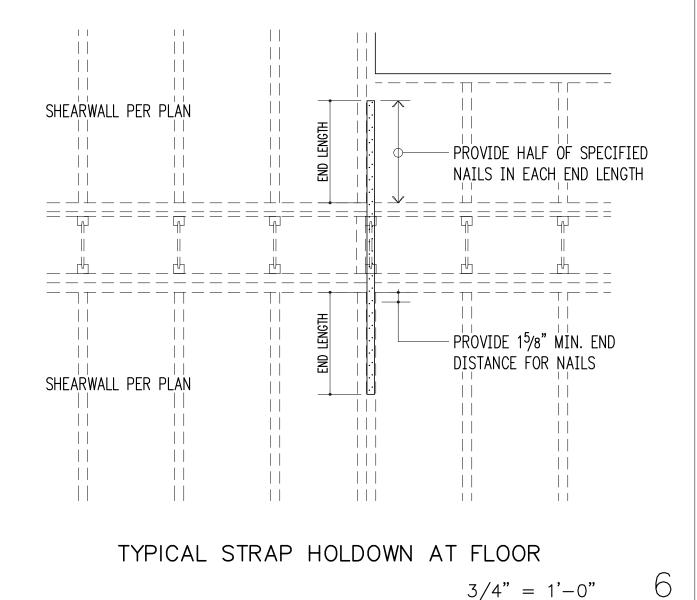


TYPICAL SHEARWALL ANCHOR BOLT PLACEMENT 1-1/2" = 1'-0"

# STRAP SCHEDULE (NOT ALL USED)

		`	,
MARK	END LENGTH	NAILS	NAIL SPACING
CMST12	44"	(98) 10d x 3"	1 <sup>3</sup> /4"
CMST14	34"	(76) 10d x 3"	1 <sup>3</sup> /4"
CMSTC16	25"	(58) 12d x 3 <sup>1</sup> /4"	11/2"
CS14	19"	(36) 8d x 2 <sup>1</sup> /2"	21/16"
CS16	14"	(26) 8d x 2 <sup>1</sup> /2"	21/16"
CS18	12"	(22) 8d x 2 <sup>1</sup> /2"	21/16"
CS20	9"	(16) 8d x 2 <sup>1</sup> /2"	21/16"
CS22	8"	(14) 8d x 2 <sup>1</sup> /2"	21/16"

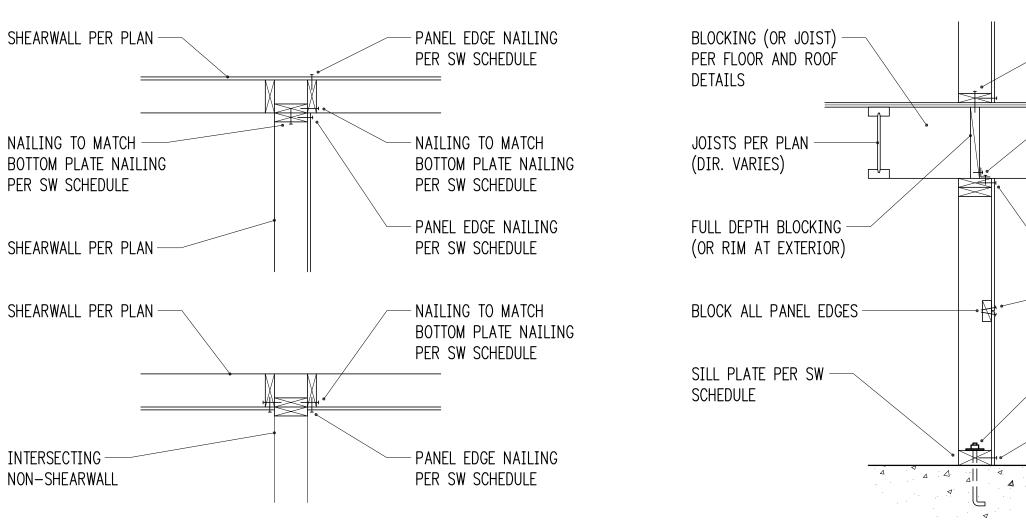
- 1. 10d AND 12d DIAMETER = 0.148"; 8d DIAMETER = 0.131".
- 2. USE HALF OF THE REQUIRED NAILS IN EACH MEMBER BEING CONNECTED (i.e. IN EACH END LENGTH).



# SHEARWALL SCHEDULE (NOT ALL USED ON PLANS)

MARK SHEATHING <sup>1</sup>	SHEATHING <sup>1</sup>	STUDS AT	PANEL EDGE	RIM JOIST OR BLOCKING TO TOP PLATE		BOTTOM PLATE ATTACHMENT		
	ABUTTING PANEL EDGES <sup>2</sup>	NAILING <sup>3,4</sup>	SOLID RIM TJI RIM	BOTTOM PLATE TO RIM JOIST BELOW 4	ANCHOR BOLT TO CONCRETE 5	SILL PLATE AT FOUND.		
SW1	15/32" CDX PLYWOOD	2x	8d @ 6"oc	A35 @ 24"oc	16d @ 6"oc	16d @ 6"oc	<sup>5</sup> /8"ø @ 48"oc	2x
SW2	15/32" CDX PLYWOOD	2x	8d @ 4"oc	A35 @ 15"oc	16d @ 4"oc	16d <b>@</b> 4"oc	<sup>5</sup> /8"ø @ 32"oc	2x
SW3	15/32" CDX PLYWOOD	3x	8d @ 3"oc	A35 @ 12"oc	N/A - USE SOLID RIM	16d @ 3"oc	<sup>5</sup> /8"ø @ 16"oc	2x
SW4	15/32" CDX PLYWOOD	3x	8d @ 2"oc	A35 @ 9"oc	N/A - USE SOLID RIM	16d @ 2"oc	<sup>5</sup> /8"ø @ 12"oc	2x
SW5	15/32" CDX PLYWOOD BOTH SIDES	3x	8d @ 3"oc	A35 @ 6"oc	N/A - USE SOLID RIM	(2) ROWS 16d @ 3"oc	<sup>5</sup> /8"ø @ 12"oc	3x
SW6	15/32" CDX PLYWOOD BOTH SIDES	3x	8d @ 2"oc	A35 @ 4½"oc	N/A - USE SOLID RIM	(2) ROWS 16d @ 2"oc	<sup>5</sup> /8"ø @ 12"oc	3x

- 1. WALL SHEATHING SHALL CONSIST OF APA RATED PLYWOOD WITH SPAN RATING 24/0. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF PANELS. 7/16" APA RATED SHEATHING (OSB) MAY BE USED IN PLACE OF 15/32" CDX.
- 2. STUDS AT ABUTTING PANEL EDGES MAY CONSIST OF (2)2x STUDS IN PLACE OF 3x STUDS NAIL (2)2x STUDS TOGETHER WITH BOTTOM PLATE ATTACHMENT NAILING.
- 3. BLOCK ALL PANEL EDGES W/ 2x4 FLAT, ATTACH W/ PANEL EDGE NAILING. TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS. END STUDS SHALL RECEIVE PANEL EDGE NAILING. INTERMEDIATE STUDS SHALL BE 2x STUDS. NAIL SHEATHING TO INTERMEDIATE FRAMING MEMBERS WITH 8d @ 12"oc.
- 4. 8d NAILS SHALL BE 0.131" DIAMETER x  $2\frac{1}{2}$ " (COMMON). 16d NAILS SHALL BE 0.135" DIAMETER x  $3\frac{1}{2}$ " (BOX).
- ANCHORS TO CONCRETE SHALL CONSIST OF CAST-IN-PLACE ANCHOR BOLTS, EXPANSION BOLTS, EPOXY GROUTED ALL-THREADS, OR TITEN HD HEAVY DUTY SCREW ANCHORS. CAST-IN-PLACE ANCHOR BOLTS HAVE A 7" EMBED AND SHALL BE J-BOLTS OR SHALL HAVE A HEX NUT AT THE BOTTOM END. EXPANSION BOLTS SHALL HAVE 5" EMBED AND SHALL NOT BE USED AT STEM WALL LOCATIONS WITH EDGE DISTANCE LESS THAN 5" (INSTEAD, USE EPOXY GROUTED ALL-THREADS OR TITEN HD ANCHORS). EPOXY GROUTED ANCHORS SHALL HAVE 5" EMBED AND 2½" MIN. EDGE DISTANCE. TITEN HD ANCHORS SHALL HAVE 3½" EMBED AND 1¾" MIN. EDGE DISTANCE. AT ALL ANCHOR BOLTS, PROVIDE STEEL PLATE WASHERS THAT ARE A MINIMUM OF 0.229" (3 GAUGE) x 3"x 3" (SIMPSON BP5/8-3 OR SIMILAR). PLACE BOLTS PER ANCHOR BOLT PLACEMENT DETAIL.



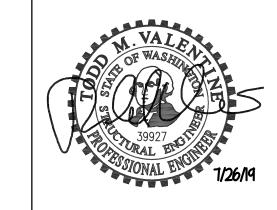
PER SW SCHEDULE — TOP PLATE CONNECTION PER SW SCHEDULE - PANEL EDGE NAILING PER SW SCHEDULE ANCHOR BOLTS & WASHERS PER SW SCHEDULE - PANEL EDGE NAILING PER SW SCHEDULE

TYPICAL SHEARWALL SECTION

BOTTOM PLATE NAILING

3/4" = 1'-0"

3/4" = 1'-0"



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HV

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Werelius Residence

Issue Description

Framing Revisions

Permit

7/26/19 Framing Revisions

**Building Department Approval** 

8452 North Mercer Way Mercer Island, WA 98040

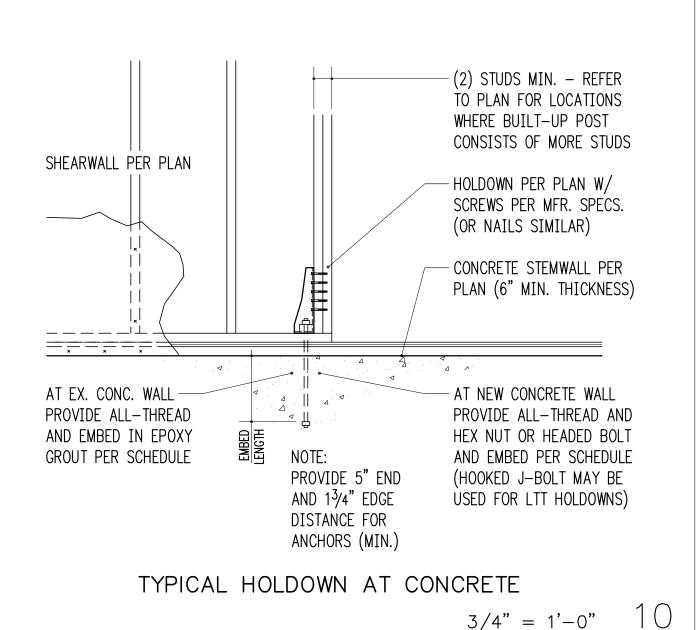
6/18/19

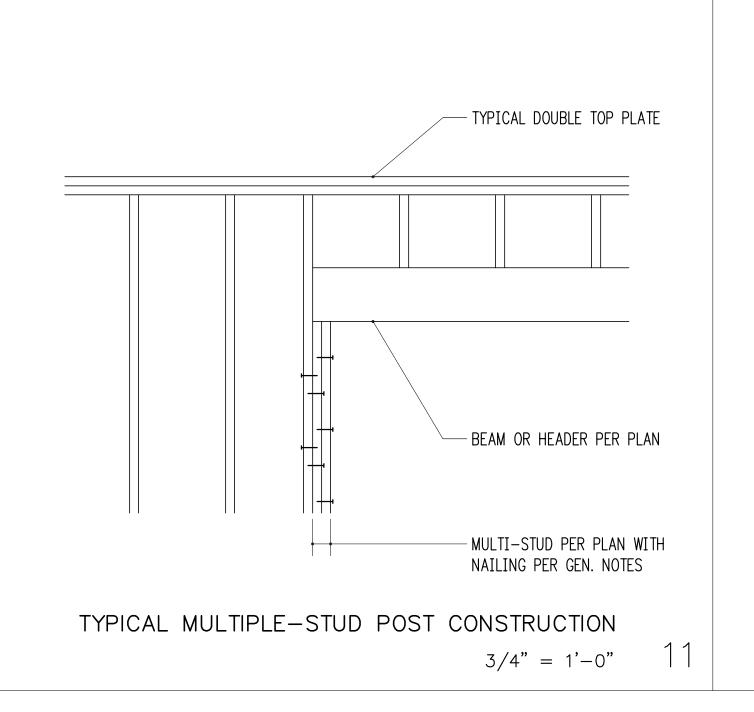
H2D Architecture + Design 23020 Edmonds Way, #113 Edmonds, WA 98020

# HOLDOWN SCHEDULE (NOT ALL USED ON PLANS)

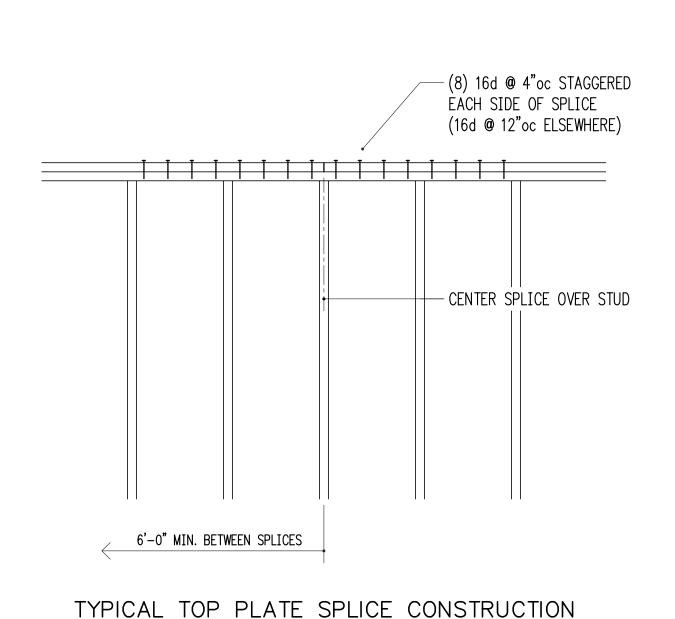
MARK	ARK FASTENERS TO STUDS 1		EMBEDMENT LENGTH		SSTB <sup>5</sup>
		DIA. <sup>2</sup>	EPOXY <sup>3</sup>	CAST-IN <sup>4</sup>	
HDU2	(6) 1/4"ø x 21/2" SCREWS	5/8"	12"	11"	SSTB16
HDU4	(10) <sup>1</sup> /4"ø x 2 <sup>1</sup> /2" SCREWS	5/8"	24"	24"	SSTB20
HDU5	(14) 1/4"ø x 21/2" SCREWS	5/8"	N/A	37"	SSTB24
HDU8	(20) 1/4"ø x 21/2" SCREWS	7/8"	N/A - SEE 12/S3.0		
HDU11	(30) 1/4"ø x 21/2" SCREWS	1"	N/A - SEE 12/S3.0		
HDU14	(36) 1/4"ø x 21/2" SCREWS	1"	N/A - SEE 12/S3.0		

- 1. 10d AND 12d DIAMETER = 0.148"; 16d DIAMETER = 0.162". SCREWS SHALL BE SIMPSON "SDS" TYPE SCREWS, INSTALL PER SIMPSON RECOMMENDATIONS
- 2. PROVIDE A36 OR A307 ALL-THREAD AT EPOXY AND CAST-IN ANCHORS.
- 3. PROVIDE SIMPSON "SET-XP" EPOXY PER GENERAL STRUCTURAL NOTES. SPECIAL INSPECTION IS REQUIRED.
- 4. AT CAST-IN ANCHORS PROVIDE HEAVY HEX NUT AT BOTTOM OF ALL-THREAD. HOOKED J-BOLT MAY BE USED FOR LTT HOLDOWNS.
- 5. AT 3x SILL PLATES, PROVIDE LONGER SSTBL MODELS.





TYPICAL SHEARWALL INTERSECTIONS



STRUCTURAL DETAILS

**S4.0**