YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040 PARCEL No. 257950-0162

PERMIT # 1907-103

FS

FT

FTD

DEG

DEMO

DEGREE

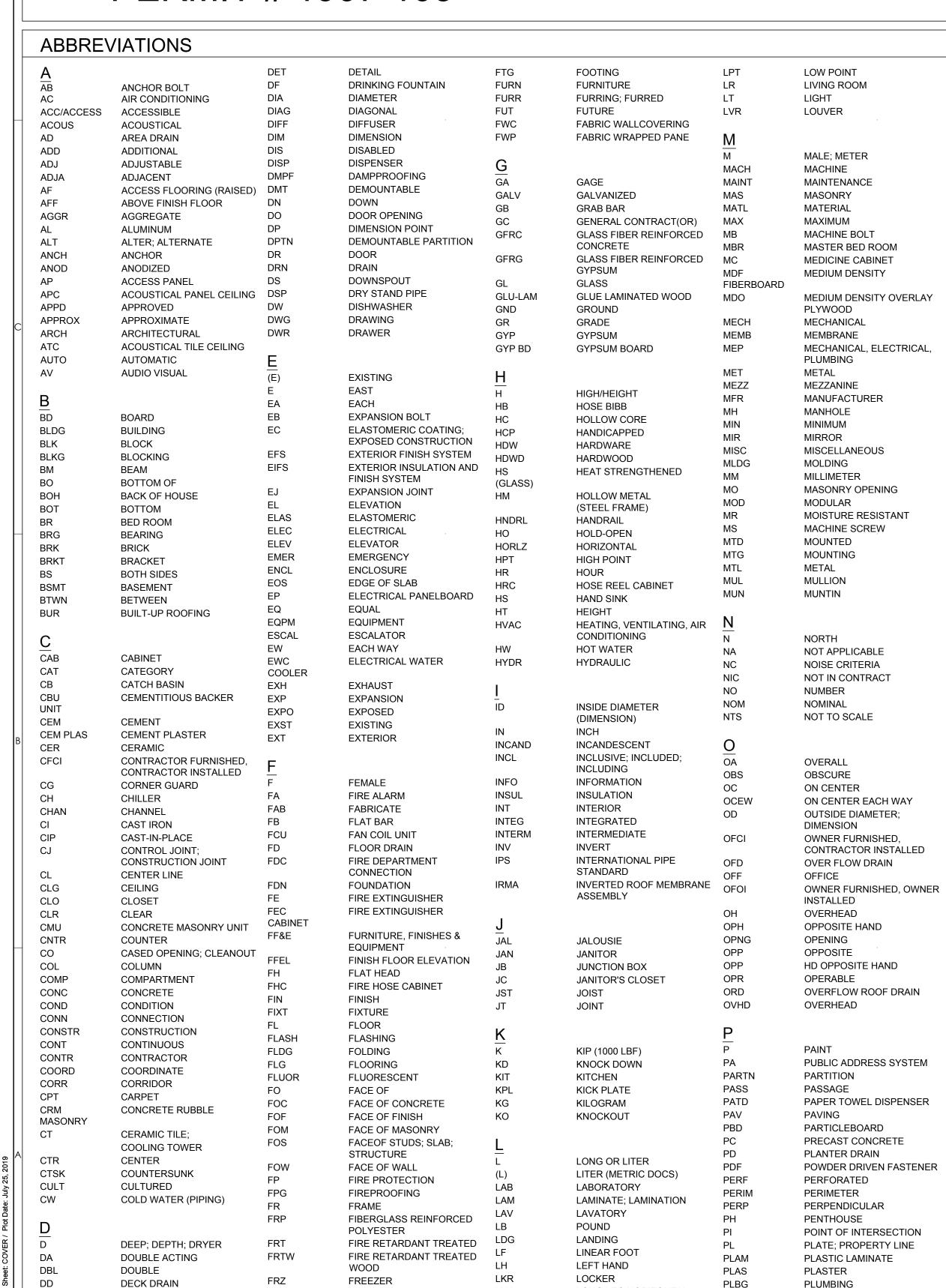
DEMOLITION

DEPARTMENT

FLOOR SINK

FOOT; FEET

FACIAL TISSUE DISPENSER



LONG LEG HORIZONTAL

LONG LEG VERTICAL

PROJECT TEAM MELISSA YANG 7431 E MERCER WAY MERCER ISLAND, WA 98040 PHONE: 206.356.5726 EMAIL: mmng101@gmail.com LAND SURVEYOR SITE SURVEYING, INC. 21923 NE 11TH ST SAMMAMISH, WA 98074 CONTACT: THOMAS WOLDENDORP PHONE: 425.298.4412 CIVIL ENGINEER DAVIDO CONSULTING GROUP

STORAGE

STRINGER

STRUCTURAL

STRUCTURAL

SURROUND

SUSPENDED

SYMMETRICAL

TOWEL BAR

TOP OF CURB

TERRAZZO

TOGGLE BOLT

THRESHOLD

TACK BOARD

THROUGH

TEMPERED

CONCRETE

STRUCTURE

TOP OF WALL

TRACTION

TREAD

TRANSITION

TOWEL SHELF

TELEVISION

TOP OF WALL

TYPICAL

UNDERCUT

UNFINISHED

URINAL

UNDERWRITERS

UNLESS OTHERWISE NOTED

VENTILATION AND AIR

VINYL COMPOSITION TILE

CONDITIONING

VERIFY IN FIELD

VENEER PLASTER

VAPOR RETARDER

VENT THROUGH ROOF

VINYL WALL COVERING

WASHER; WIDE; WIDTH;

WATER CLOSET; WALL

VERTICAL

VOLUME

VINYL TILE

WITHOUT

COVERING

WINDOW

WOOD SCREW

WIRE GLASS

WATER HEATER

WHERE OCCURS

WATERPROOFING

WATERPROOFING

WATER RESISTANT;

WEATHER STRIPPING

WELDED WIRE FABRIC

WET STAND PIPE

WALL TO WALL

WORK POINT

WAINSCOT

WEIGHT

WOOD

VESTIBULE

TOP OF

THICK: THICKNESS

TOP OF CURB; TOP OF

TOP OF SLAB; TOP OF

TOILET PAPER DISPENSER

TOILET PAPER HOLDER

TOP OF PAVEMENT

TRENCH DRAIN

TREAD: THERMOSTAT

TONGUE & GROOVE

TILE BACKER BOARD

TELEPHONE; TELECOM

TEMPORARY; TEMPERATURE

SERVICE

SWITCH

SYSTEM

SUBCATEGORY

STRG

STRL

STRUC

SURR

SUSP

TEMP

TER

TGB

THK

THRES

THRU

TKBD

TOS

TRD

LABORATORY

UON

VEST

VTR

WEST

WDS

WPM

WPT

WS

WSCT

MEMBRANE

REPELLANT

SUBCAT

POL

PR

PRCST

PREFAE

PROJ

PROP

PSF

PTD

PTDR

PTR

PVC

PVMT

REBAR

RECOM

RECPT

REC

REF

REFL

REG

REINF

REM

REQ

RESIL

REV

RGH

RND

RTG

RWC

RWL

SCD

SCR

SECT

SHTG

SHR

SIM

METER

SDR

SPKR

SPRK

STA

POUNDS PER LINEAR FOOT

PLYWOOD

PANEL

ELEVATION

DISPENSER

SCHED

DISPENSER

POLISHED

PRECAST

PROJECT

PROPERTY

POINT: PAINT

PAINTED

PARTITION

PAVEMENT

QUARRY TILE

QUANTITY

RELOCATED

RETURN AIR

ROOF DRAIN

RISER; RADIUS

RESILIENT BASE

REINFORCING BAR

RECOMMENDED

RECEPTACLE

RECESSED

REFERENCE

REFRIGERATOR

REGISTER

RELOCATE

REMOVABLE

RESILIENT

ROUGH

ROOM

ROUND

RATING

SUPPLY AIR

SOLID CORE

SCHEDULE

SCUPPER

SECTION

SHEET

SHEATHING

SHOWER

SIMILAR

SLOPE

SLIDING

SEALANT

SCREEN

SANITARY

REFLECTED CEILING PLAN

REFLECTED; REFLECTIVE

REINFORCED; REINFORCING

REQUIRE; REQUIRED

REVISION; REVISED

ROUGH OPENING

RIGHT HAND; ROBE HOOK

RAIN WATER CONDUCTOR

SEAT COVER DISPENSER

STORM DRAIN; SMOKE

DETECTOR; SOAP

SQUARE FEE; FOOT

SPRINKLER HEAD

SHEET METAL; SQUARE

SANITARY NAPKIN

SANITARY NAPKIN

RECEPTACLE

STANDPIPE

SPRINKLER

SPEAKER

SQUARE

STATION

STEEL

STANDARD

STEEL JOIST

SPECIFICATION

STRUCTURE SLAB

STAINLESS STEEL

SERVICE SINK

SAFETY GLASS

RAIN WATER LEADER

PREFABRICATED

POUNDS PER SQUARE FOOT

PAPER TOWEL DISPENSER:

PAPER TOWEL RECEPTACLE

WASTE RECEPTACLE

POLYVINYL CHLORIDE

PAPER TOWEL DISPENSER & SYS

PAIR

9706 4TH AVE NE #300

CONTACT: BEN IDDINS, PE

EMAIL: ben@dcgengr.com

SEATTLE, WA 98115

PHONE: 425.523.0024

SYMBOLS

ELEVATION INDICATOR

BORING INDICATOR

BREAK, ROUND

BREAK, STRAIGHT

DETAIL INDICATOR

DETAIL INDICATOR

LINE WITH TAIL

DIMENSION LINE

DOOR OPENING,

ELEVATION INDICATOR,

ELEVATION INDICATOR,

ELEVATION INDICATOR,

FURNITURE, FIXTURES AND

DOOR & WINDOW TYPE IDENTIFIER

EQUIPMENT INDICATOR

KEYNOTE INDICATOR

LEADER, STRAIGHT

NORTH INDICATOR

REFERENCE GRID INDICATOR

WITH REFERENCE GRID LINES

REVISION INDICATOR

CLOUD) TYPICAL

WITH ROOM NAME

SECTION INDICATOR

SECTION INDICATOR

FOR PARTIAL BUILDING

AND NUMBER

FOR BUILDING

INDICATOR

DETECTOR TYPES

(SHOWN WITH REVISION

ROOM NAME IDENTIFIER

INTERIOR MULTIPLE

DOOR TAG

EXTERIOR

INTERIOR

ARCHITECT STUDIO19 ARCHITECTS 207 1/2 1ST AVE S, SUITE 300 SEATTLE. WA 98104 **CONTACT: STEVEN LONG** PHONE: 206-466-1225 EMAIL: slong@studio19architects.com STRUCTURAL ENGINEER CHRIS NICKERSON ENGINEERING CONTACT: CHRIS NICKERSON PHONE: 425,610.4425 EMAIL: chris@nickersonengineering.com

ABC CONSULTING ARBORISTS, LLC

SPOKANE, WA 99218

PHONE: 509.953.0293

∖A101*/*

3'-0"

 $\langle AXXX \rangle$

 $\langle xx \rangle$

NAME

XXX

OBJECT REFERENCED

OBJECT REFERENCED

(SD) SMOKE DETECTOR (CO) GAS DETECTOR

(P) PHOTOELECTRIC SMOKE DETECTOR (RA) GAS DETECTOR

0X0X PARTITION TYPE MONITOR

\A101/

(HEAT DETECTOR

PARTITION GROUP TYPE -

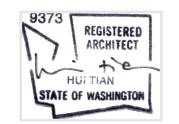
CONTACT: DANIEL MAPLE

CASCADE GEOTECH NW 4957 LAKEMONT BLVD SE, C-4, #325 BELLEVUE. WA 98006 CONTACT: MICHAEL XUE, PE PHONE: 206.491.0081 EMAIL: mxue@pangeoinc.com CONTRACTOR TO BE DETERMINED CONTACT: PHONE: EMAIL:



CONSULTANT

PROFESSIONAL SEAL:



YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040

07	7/25/2019	PERMIT SUBMITTAL
	12312019	FERWIT SUBWITTAL
MARK	DATE	DESCRIPTION

CITY OF MERCER ISLAND PROJECT # 1907-103

DRAWING INDEX **ABBREVIATIONS**

> 20190130 07/25/2019

9507 N DIVISION ST SUITE K-1 EMAIL: daniel@abcarborist.com PROJECT DESCRIPTION PROPERTY ADDRESS: 7431 E MERCER WAY MERCER ISLAND, WA 98040 PARCEL #: 257950-0162 PROJECT CONSISTS OF A DEMOLITION OF AN EXISTING TENNIS COURT AND LOG SHED AND CONSTRUCTION OF A NEW SINGLE-FAMILY RESIDENCE AND ASSOCIATED SITE WORK. MAIN FLOOR = 1.484 SF GARAGE = 457 SF UPPER FLOOR = 1,907 SF EXT. PATIO = 435 SF ROOF STAIRS = 80 SF EXT. BALCONIES = 188 SF ROOF DECK = 661 SF TOTAL LIVABLE FLOOR AREA = 3,471 SF = 5,212 SF DRAWING INDEX **PROJECT** COVER SHEET CODE SUMMARY CALCULATIONS - LOT COVERAGE - AVERAGE BUILDING ELEVATION - LANDSCAPE COVERAGE - HARDSCAPE COVERAGE <u>SURVEY</u> TOPOGRAPHIC SURVEY 1 OF 1 CIVIL C01 SMALL PARCEL ESC PLAN C02 C03 **GRADING PLAN** C04 DRAINAGE PLAN C05 UTILITY PLAN C06 **ESC & DRAINAGE DETAILS ARCHITECTURAL** DEMO PLAN SITE PLAN A1.03 TREE PLAN A2.00 FOUNDATION PLAN LEVEL 1 FLOOR PLAN A2.01 A2.02 **LEVEL 2 FLOOR PLAN** A2.03 ROOF PLAN A2.04 ROOF SLOPE PLAN A2.05 FIRST FLOOR DIMENSION PLAN A2.06 SECOND FLOOR DIMENSION PLAN EXTERIOR ELEVATIONS - NORTH & SOUTH A3.02 EXTERIOR ELEVATIONS - EAST & WEST **BUILDING SECTIONS** A4.02 **BUILDING SECTIONS BUILDING SECTIONS** A4.04 STAIR SECTIONS WALL, FLOOR & ROOF ASSEMBLY SCHEDULE A8.02 W.R.B. & FLASHING SEQUENCE A8.03 A8.04 DETAILS A8.05 DETAILS A8.06 DOOR & WINDOW DETAILS DOOR & WINDOW DETAILS DOOR AND WINDOW SCHEDULE A9.02 DOOR LEGEND A9.03 WINDOW LEGEND A9.04 **ENERGY SUMMARY MUNICIPALITY REVIEW:** STRUCTURAL STRUCTURAL GENERAL NOTES FOUNDATION PLAN S2.1 UPPER FLOOR FRAMING PLAN S2.2 ROOF DECK FRAMING PLAN S3.0 FOUNDATION DETAILS S4.0 FRAMING DETAILS FRAMING DETAILS S4.2 FRAMING DETAILS SHEET TITLE: PROJECT DATA PROJECT NO .: DATE ISSUED: **SHEET NUMBER:**

G0.01

- 1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL BONDS, CASH DEPOSITS. ETC. THAT THE CITY WILL REQUIRED TO FACILITATE CONSTRUCTION OF
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY, AND LOCAL BUILDING AND FIRE
- 3. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES AND RESTRICTIONS ENFORCED BY AUTHORITIES HAVING JURISDICTION.
- 4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS OTHER THAN THE BUILDING PERMIT. ADDITIONALLY, CONTRACTOR SHALL PAY FOR ALL OTHER CHARGES, FEES OR COSTS ASSOCIATED WITH THE WORK AND CHARGED BY THE MUNICIPALITY, UTILITIES, OR PRIVATE COMPANIES. SEPARATE PERMITS ARE REQUIRED FOR MECHANICAL, ELECTRICAL AND PLUMBING.
- GENERAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK. ANY CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND APPROVED BEFORE COMMENCING WORK.
- 6. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL FROM THE CONSTRUCTION SITE ALL CONSTRUCTION DEBRIS AND/OR ITEMS NOT RETAINED BY THE OWNER'S
- GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR STRUCTURES UNTIL ALL FINAL CONNECTIONS ARE INSTALLED.
- 8. UNLESS QUALIFIED, NO PRODUCT SUBSTITUTIONS "OR EQUAL" PRODUCTS. EQUIPMENT OR MATERIALS SHALL BE ALLOWED.
- 9. GENERAL CONTRACTOR HAS RESEARCHED AND VERIFIED ALL TRASH, DEBRIS, AND RECYCLING REQUIREMENTS FOR THE CITY IN WHICH THIS WORK WILL BE PERFORMED AND HAS INCLUDED SUCH COSTS INTO THIS PROPOSAL.
- 10. GENERAL CONTRACTOR IS RESPONSIBLE FOR SITE SURVEYING AND LAYOUT. OWNER TO PROVIDE ONE (1) BENCHMARK FOR GENERAL CONTRACTOR'S USE.
- 11. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE, FURNISH AND INSTALL ALL FRAMING, BACKING AND DEADWOOD REQUIREMENTS FOR EQUIPMENT AND MATERIALS INSTALLED IN THE BUILDING.
- 12. TRUSS MANUFACTURER SHALL SUPPLY SHOP DRAWINGS FOR REVIEW AND APPROVAL BEFORE FABRICATION.
- 13. APPLIANCES GENERALLY, THIS EQUIPMENT IS DELIVERED FACTORY DIRECT. MOUNTING AND CONNECTIONS NOT INCLUDED. GENERAL CONTRACTOR SHALL MOUNT AND MAKE UP ALL REQUIRED CONNECTIONS TO MAKE THE EQUIPMENT FUNCTION PROPERLY.
- 14. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SET OF DRAWINGS TO EACH SUBCONTRACTOR AND FOR INSURING THAT THE WORK OF EACH SUBCONTRACTOR IS COORDINATED WITH THE WORK OF ALL OTHER SUBCONTRACTORS.
- 15. THE LAST DATED REVISION VOIDS AND SUPERSEDES ANY AND ALL PREVIOUS DRAWINGS WITH THE SAME SHEET NUMBER. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECOVER AN DISPOSE OF ALL SUPERSEDED / PREVIOUSLY ISSUED PLANS FROM ALL SUBCONTRACTORS, SUPPLIES AND MATERIAL PERSONS. ALL COSTS RESULTING FROM A FAILURE TO ISSUE REVISED SHEETS, AND RECOVERY / DISPOSAL OF SUPERSEDED SHEETS IN A TIMELY MANNER, SHALL BE ABSORBED BY THE GENERAL CONTRACTOR. THE OWNER AND ARCHITECT WILL NOT BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE ABOVE.
- 16. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK. ALL FINAL CONNECTIONS TO EXISTING UTILITIES SHALL BE BY THE CONTRACTOR.
- 7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE SITE THROUGHOUT THE CONSTRUCTION PROCESS.
- 18. GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AS REQUIRED BY GENERAL CONDITIONS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- 19. DO NOT OBSTRUCT STREETS, SIDEWALKS, ALLEYS OR OTHER RIGHT-OF-WAYS WITHOUT FIRST OBTAINING PROPER PERMITS.
- 20. ALL FIRE RATED CONSTRUCTION SHALL CONFORM WITH CURRENT UL TESTED STANDARD AND/OR LOCAL REQUIREMENTS.
- 21. IF USED, SPECIALTY STAIR CONTRACTOR TO PROVIDE SIGNED & SEALED SHOP DRAWINGS BY A LICENSED WASHINGTON STATE STRUCTURAL ENGINEER.
- 22. PROVIDE SOLID BLOCKING UNDER ALL BEARING WALLS.
- 23. JOINT SEALERS SHALL BE REQUIRED AT THE INTERSECTION OF ALL DISSIMILAR MATERIALS IN INTERIOR AND EXTERIOR CONDITIONS.
- 24. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL PENETRATIONS OF THE BUILDING ENVELOPE INCLUDING EXTERIOR WINDOWS, GRILLES, HVAC DUCTWORK, AND CONDUIT AS REQUIRED THROUGH THE EXTERIOR WALLS, ROOF DECKS, VERTICAL ROOF AND MANSARD WALLS SHALL REQUIRE MECHANICAL FLASHING IN ADDITION TO APPROPRIATE EXTERIOR SEALANTS TO PROVIDE AND ENSURE WATERTIGHT CONDITIONS AT THESE LOCATIONS.
- 25. GUTTERS, DOWNSPOUTS AND ALL EXTERIOR SHEET METALS ARE TO BE PRE-FINISHED AT THE FACTORY. COLOR SHALL BE SELECTED FROM THE MANUFACTURER'S FULL RANGE OF COLOR OPTIONS BY THE ARCHITECT. NO FIELD PAINTING TO BE ALLOWED.
- 26. ALL NEW EXTERIOR WARM WALLS TO BE 2X6 STUDS 16" O.C. TYPICAL, WITH R-21 INSULATION UNLESS NOTED OTHERWISE.
- 27. ALL EXTERIOR LOUVER GRILLES SHALL BE FACTORY PAINTED WITH KYNAR FINISH TO MATCH THE EXTERIOR FIELD COLOR IN WHICH THEY ARE LOCATED.
- 28. ALL EXTERIOR METALS SHALL BE GALVANIZED, PRE-FINISHED OR FIELD PAINTED PER ARCHITECT COORDINATION. GENERAL CONTRACTOR SHALL ASSUME THE MOST STRINGENT FINISH IF NOT INDICATED ON DOCUMENTS.
- 29. ALL GUARDRAILS INSTALLED PER MANUFACTURERS SPECIFICATIONS, SUPPORTS CAPABLE OF RESISTING A SINGLE CONCENTRATED LOAD OF 200 POUNDS, APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP OF THE RAIL.
- 30. ALL GUARDRAILS TO BE 36" ABOVE ADJACENT WALKING SURFACE, MAXIMUM OPENING TO BE < 4".
- 31. FASTENERS INTO OR IN CONTACT WITH PRESSURE-TREATED OR FIRE-RETARDANT WOOD SHALL BE OF HOT-DIPPED GALVANIZED STEEL, STAINLESS, STEEL, SILICON, BRONZE, OR COPPER. EXCEPTION ½" DIAMETER OR GREATER STEEL BOLTS.
- 32. FURR OUT HEADERS TO MATCH 2x6 WALLS. INSULATE WALL CAVITY AT HEADERS TO R-10 MIN. INSULATION.
- 33. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, AND ON EACH ADDITIONAL STORY OF THE DWELLING. ALL SMOKE ALARMS TO BE HARD WIRED WITH BATTERY BACKUP.
- 34. PROVIDE A CARBON MONOXIDE ALARM OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN DWELLING UNITS WITHIN WHICH FUEL FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES. ALL CARBON MONOXIDE ALARMS TO BE HARD WIRED WITH BATTERY BACKUP.

GENERAL NOTES

DRAWINGS:

INFORMATION CONTAINED WITHIN THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS IS PROVIDED FOR THE CONVENIENCE OF THE GENERAL CONTRACTOR. DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS ARE PROVIDED BY THE ARCHITECT BASED ON AVAILABLE INFORMATION.. ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY REPRESENT THE EXISTING CONDITIONS AND SURROUNDINGS VIA OWNER SUPPLIED AS-BUILTS AND FIELD VERIFICATION.

- 2. ALL DRAWINGS OF EXISTING CONDITIONS ARE FOR REFERENCE ONLY. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTIONS TO AVOID UNREASONABLE DELAYS TO THE SCHEDULE. PROVIDE WRITTEN NOTIFICATION TO THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE DRAWINGS. THE ARCHITECT WILL ISSUE A WRITTEN DIRECTIVE IF FURTHER CLARIFICATION IS REQUIRED.
- 3. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. DRAWINGS HAVE BEEN PREPARED ON AN ORIGINAL SHEET SIZE OF 24" X 36".
- 4. THE TYPICAL EXTERIOR DIMENSIONS ARE TO FACE OF CONCRETE AND/OR FACE OF FRAMING, UNLESS NOTED OTHERWISE. INTERIOR DIMENSIONS ARE TO FACE OF FRAMING, UNLESS OTHERWISE INDICATED.
- 5. THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF STUDIO19 ARCHITECTS, AND HAVE BEEN PREPARED FOR THE USE IN THE EXECUTION OF THE ENCLOSED PROJECT. USE OR REPRODUCTION FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF STUDIO19 ARCHITECTS IS PROHIBITED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION
- 7. LEGENDS ON THE PLANS AND SCHEDULE IN THE SPECS SHALL BE COMPLEMENTARY.
- 8. SEE SHEET G0.03 FOR BUILDING AREAS AND LOT COVERAGE CALCULATIONS.
- 9. SEE SHEET A8.01 FOR WALL, FLOOR, AND ROOF ASSEMBLIES.
- 10. SEE SHEETS A9.01 THROUGH A9.03 FOR WINDOW AND DOOR SCHEDULES.
- 11. ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE & PLUMB. DIMENSIONAL LAYOUT SHALL BE IN THE FOLLOWING PRIORITY ORDER:
 - A. STRUCTURAL DRAWINGS
 - B. LARGE SCALE DETAILS
- SMALL SCALE DETAILS D. ENLARGED PLANS AND SECTIONS
- E. FLOOR PLANS
- 12. DIMENSIONS ARE INDICATED TO THE CENTERLINE OF STRUCTURAL GRID, FACE OF CONCRETE, OR FACE OF STUDS UNLESS NOTED OTHERWISE.
- 13. REQUIRED SIZE, CLEARANCES, AND RELATIONSHIPS ARE INDICATED BY DIMENSIONS AS NOTED.

MECHANICAL / ELECTRICAL:

- 1. VERIFY ELECTRICAL AND HEAT LAYOUTS WITH INSTALLER BEFORE INSTALLATION.
- 2. ALL WASTE LINES TO BE INSULATED WITH ACOUSTIC INSULATION.
- 3. ELECTRICAL WIRING SHALL CONFORM TO THE 2017 WASHINGTON CITIES ELECTRICAL
- 4. INSTALL OUTLETS AND SWITCHES AT HEIGHTS AND LOCATIONS REQUIRED BY 2015 INTERNATIONAL RESIDENTIAL CODE. AND THE 2017 WASHINGTON CITIES ELECTRICAL
- 5. LIGHTING WATTAGE SHALL MEET THE 2017 WASHINGTON CITIES ELECTRICAL CODE.
- 6. PROVIDE SMOKE DETECTORS AND FIRE SUPPRESSION SYSTEMS TO MEET THE 2015 INTERNATIONAL RESIDENTIAL CODE AND 2015 INTERNATIONAL FIRE CODE.

VENTILATION:

- 1. PROVIDE PROPER ROOF & CRAWL SPACE VENTILATION PER IBC.
- 2. PROVIDE EQUIPMENT VENTILATION PER THE FOLLOWING MINIMUM STANDARDS. - VENT DRYER TO OUTSIDE PER MECHANICAL CODE. - VENT ALL FANS TO OUTSIDE W/ 3' MIN. SEPARATION TO BUILDING OPENINGS. - VENT HOT WATER TANK TO EXPANSION TANK. - VENT DISHWASHER AT SINK.

EXHAUST MINIMUMS:

- PROVIDE SOURCE SPECIFIC INTERMITTENT OPERATION EXHAUST FANS AS IDENTIFIED ON PLANS. SPECIFIED FANS MAY EXCEED THE FOLLOWING MINIMUM STANDARDS: - BATHROOMS / LAUNDRY ROOMS: 50 CFM AT 0.25" W.G.
- KITCHEN HOODS & DOWNDRAFTS: 100 CFM AT 0.10" W.G. - KITCHEN HOODS GREATER THAN 400 CFM SHALL BE EQUIPPED WITH MAKE-UP AIR.
- PROVIDE INTERMITTENTLY OPERATED WHOLE HOUSE VENTILATION FAN. WHOLE HOUSE VENTILATION SYSTEM SHALL CONFORM WITH WASHINGTON STATE ENERGY CODE - CURRENT EDITION AND SHALL BE CAPABLE WITH THE FOLLOWING MINIMUM STANDARDS:
- BE SIZED FOR A MAXIMUM SOUND RATING OF 1.0 SONES - BE CONTROLLED BY READILY ACCESSIBLE 24 HR TIMER CAPABLE OF CONTINUOUS
- 5. EXHAUST FANS LARGER THAN 50 CFM MAY BE CONNECTED TO 4" DIAMETER SMOOTH WALL VENT PIPE IF RUNS DO NOT EXCEED 20' IN LENGTH. THE MINIMUM SIZE OF FLEX DUCT IS 5" DIAMETER WITH A MAXIMUM RUN OF 15'.
- 6. ALL BATHROOM FANS, KITCHEN HOODS, AND DRYER DUCTS SHALL BE EXHAUSTED TO THE ROOF OR THRU THE FLOOR SYSTEM TO AN OUTSIDE WALL. ALL WALL DUCTS SHALL TERMINATE AT LEAST 36" FROM A WINDOW OPENING.
- 7. COMBUSTION AIR REQUIRED FOR ALL FUEL BURNING APPLIANCES.

OPERATION WITH MANUAL & AUTOMATIC CONTROL.

INTERIOR FINISHES:

- 1. THE FACING OF ANY EXPOSED INSULATION MUST MEET A FLAME SPREAD INDEX OF 25 OR LESS IBC SECTION 719.2).
- 2. REFER TO TABLE 721.1 FOR RATED FIRE RESISTANCE PERIODS FOR WALLS AND PARTITIONS (2015 IBC)
- 3. THE MAXIMUM FLAME-SPREAD CLASS OF FINISH MATERIALS USED ON INTERIOR WALLS & CEILINGS SHALL NOT EXCEED THE FLAME-SPREAD LIMITATIONS OF IBC TABLE 803.9)
- 4. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL MEET WITH ASTM E84 OR UL 5. INTERIOR FLOOR FINISHES TO COMPLY WITH 2015 IBC SECTION 804, AND NFPA 253
- 6. INSULATION TO COMPLY WITH 2015 IBC SECTION 720
- DECORATIVE MATERIALS AND TRIMS SHALL BE RESTRICTED BY COMBUSTIBILITY AND THE FLAME PROPAGATION PERFORMANCE CRITERIA OF NFPA 701, IN ACCORDANCE WITH SECTION 806 (2015 IBC)

APPLICABLE CODE ANALYSIS

- CODE REFERENCES:
- MERCER ISLAND MUNICIPAL CODE. ADOPTED JULY. 2016
- AS OF JULY 1, 2016 THE CITY OF MERCER ISLAND WILL BE USING THE FOLLOWING CODES (RCW 19.27):
- 2015 INTERNATIONAL BUILDING CODE WITH STATEWIDE AND CITY AMENDMENT WAC 51-50
- 2015 INTERNATIONAL MECHANICAL CODE WITH STATEWIDE AND CITY AMENDMENT WAC 51-52

2015 INTERNATIONAL RESIDENTIAL CODE WITH STATEWIDE AND CITY AMENDMENT – WAC 51-51

- 2014 NFPA 54, NATIONAL FUEL GAS CODE WITH STATEWIDE AND CITY AMENDMENT WAC 51-52-21000
- 2015 EDITION OF NFPA 58. LIQUEFIED PETROLEUM GAS CODE WAC 51-52

EXISTING / REQUIRED

R-9.6

9,850 SF

3,447.5 SF (35% OF LOT AREA)

LANDSLIDE, SEISMIC, EROSION

STEEP SLOPES (29.73 % MAX SLOPE)

886.5 SF (9%)

30' FROM AVERAGE BUILDING GRADE TO

TOP OF ROOF, PARAPET, OR RAILING

35' FROM EXISTING GRADE

TO TOP OF STRUCTURE

20' FRONT YARD SETBACK

25' REAR YARD SETBACK

5.61' MINIMUM SIDE YARD SETBACK

17' COMBINE SIDE YARD SETBACK

18" ROOF EAVES AND GUTTERS

36" FOR PORCHES, CHIMNEYS AND DECKS

3 PARKING SPACE / DWELLING UNIT

ACCESS FROM PRIVATE ROAD

6,402.5 SF (65%)

PER NFPA 13D - REQUIRED ON STRUCTURES

5,000 SF OR MORE

RESIDENTIAL - TYPE VA

WATER DISTRICT

PUBLIC

PRIVATE

PAVED

- 2015 INTERNATIONAL FIRE CODE WITH STATEWIDE AND CITY AMENDMENT WAC 51-54
- 2015 UNIFORM PLUMBING CODE & STANDARDS WITH STATEWIDE AND CITY AMENDMENT WAC 51–56 AND WAC 51-57

PROPOSED

R-9.6

3.431 SF

835 SF

29.4'

YES

YES

YES

YES

YES

PARKING SPACE

DWELLING UNIT

12 FT DRIVE

6,950 SF

NFPA 13D-PLUS

YES

COMPLIES

YES

SHEET

G0.02

G0.02

G0.03

A1.01

G0.03

G0.03 / A3.01 / A3.02

A3.01 / A3.02

A1.01

A1.01

A1.01

A1.01

A1.01

A2.01

A2.01

G0.03

DEFERED

- 2015 WASHINGTON STATE ENERGY CODE (INTERNATIONAL ENERGY CONSERVATION CODE) WAC 51-11
- 2017 WASHINGTON CITIES ELECTRICAL CODE

ZONING CODE ANALYSIS

SECTION

ZONING

LOT SIZE

MAXIMUM LOT

COVERAGE

CRITICAL AREAS

MAX HARDSCAPE

COVERAGE

BUILDING

HEIGHT LIMIT

BUILDING SETBACKS

PROJECTIONS

PARKING

PARKING ACCESS

LANDSCAPING

FIRE SPRINKLERS

CONSTRUCTION TYPE

WATER

SEWER / SEPTIC

ROAD ACCESS

STREET SURFACE

SITE INFORMATION

ZONE

SETBACKS

LOT SLOPE

VICINTIY MAP

PARCEL #: 257950-0162 LEGAL DESCRIPTION FLOODS LAKE SIDE TRS LOT "B" MERCER ISLAND SHORT PLAT PLAT BLOCK: 4 PLAT LOT: 8

PROJECT LOCATION

7431 E MERCER WAY

Section Quarter Township Range 30

LOT SIZE 9,850 S.F. LOT PER SURVEY AND KING COUNTY DOCUMENTS 3,940 S.F. (40 %) ALLOWABLE MAX GFA

MAX LOT COVERAGE 3,447.5 S.F. (35%) ALLOWABLE BASED ON LOT SLOPE

PROPOSED LOT COVERAGE: 3,431 SF (34 %)

R-9.6

STEEP SLOPE PER SURVEY ,LANDSLIDE HAZARDS, SEISMIC CRITICAL AREAS HAZARDS AND EROSION HAZARDS PER GEOTECH

ACCESS SHARED PRIVATE DRIVE FROM E. MERCER WAY **EASEMENTS** 5' UNDERGROUND UTILITY EASEMENT, 5' WATER EASEMENT

REAR 25' MIN. COMB. 17' (17% OF WIDTH)/ONE NOT LESS THAN 5.61'

29.73 %

FRONT 20' MIN.

MAX. HEIGHT 30' MAXIMUM HEIGHT ABOVE AVERAGE BUILDING ELEVATION

> AVERAGE BUILDING ELEVATION = 120.75' MAXIMUM ALLOWABLE HEIGHT = 150.75'

> > PROPOSED MAX. HEIGHT = 150.69' (29.94')

ENERGY CORE ANALYSIS

MEET OR EXCEED THE 2015 WASHINGTON	DDODOGED
PERFORMANCE REQUIREMENT STATE ENERGY CODE	PROPOSED
TOTAL HEATED FLOOR AREA (GROSS)	3,471 SF
LEVEL 1	1,484 SF
LEVEL 2	1,907 SF
LEVEL 3	80 SF
CLIMATE ZONE MARINE 4	
FENESTRATION U-FACTOR 0.30 S	SEE WSEC GLAZING SCHEDULE
CEILING R-VALUE R-49 OR R-38 ADVANCED FRAMED CEILING	R-49 (SEE ROOF TYPES)
WOOD FRAME WALL ABOVE GRADE R-VALUE R-21 (16 OC, HEADERS MIN R-10)	R-21

R = 30 / U = 0.029

R = 10, 2'

0.042

0.65

VENTILATION CODE NOTES

FLOOR R-VALUE / U-FACTOR

SLAB ON GRADE R-VALUE

BELOW GRADE U-FACTOR

DOOR U-FACTOR

- WAC 51-07, WASHINGTON STATE VENTILATION AND INDOOR AIR QUALITY CODE AND INTERNATIONAL MECHANICAL CODE. CHAPTER 15
- WHOLE HOUSE VENTILATION SYSTEM MINIMUM VENTILATION RATE = 90, PER TABLE M1507.3.3(1) USING EXHAUST FANS & FRESH AIR INLETS (IRC M1507.3.4).
- 2. NOISE: WHOLE HOUSE FANS LOCATED FOUR FEET OR LESS FROM THE INTERIOR GRILLE SHALL HAVE A SONE RATING OF 1.0 OR LESS.
- 3. EXHAUST DUCTS SHALL TERMINATE OUTSIDE OF THE BUILDING.
- 4. OUTDOOR AIR DISTRIBUTION: OUTDOOR AIR SHALL BE DISTRIBUTED TO EACH HABITABLE ROOM BY MEANS SUCH AS INDIVIDUAL INLETS, SEPARATE DUCT SYSTEMS, OR A FORCED-AIR SYSTEM.
- 5. DOORS SHALL BE UNDERCUT TO A MINIMUM OF ONE-HALF INCH ABOVE THE SURFACE OF THE FINISH FLOOR COVERING. DOORS AND OPERABLE LITES IN WINDOWS ARE DEEMED NOT TO MEET THE OUTDOOR AIR SUPPLY INTAKE REQUIREMENTS.
- 6. SOURCE SPECIFIC VENTILIATION: INTERMITTENTLY OPERATING MINIMUM EXHAUST RATES FOR BATHROOMS = 50 CFM, KITCHENS = 100 CFM, SYSTEMS OVER 400 CFM'S VENTED TO OUTSIDE AIR MUST PROVIDE MAKE UP AIR PER SECTION M1503.8. EXHAUST SHALL BE DISTCHARGED OUTSIDE AND BACKDRAFT DAMPERS ARE REQUIRED.

ENERGY CODE NOTES

- 2015 WASHINGTON STATE ENERGY CODE (INTERNATIONAL ENERGY CONSERVATION CODE)
- BUILDING AIR LEAKAGE TESTING, DEMONSTRATING SPECIFIC LEAKAGE AREA IS ≤0.00030 (SEC 502.4.5), IS REQUIRED PRIOR TO FINAL INSPECTION. THE TEST RESULTS SHALL BE POSTED ON THE RESIDENTIAL ENERGY COMPLIANCE CERTIFICATE.

R-10 (FULL UNDER)

NOT APPLICABLE

NOT APPLICABLE

- A SIGNED AFFIDAVIT DOCUMENTING THE DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO AN APPROVED FINAL INSPECTION (SEC 503.10.2).
- DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO APPROVED FINAL INSPECTION (SEC 101.3.2.6 AND 503.10.2).

DWELLING UNIT IS REQUIRED TO BE PROVIDED WITH AT

REGULATION OF TEMPERATURE (SEC 503.8.1). MINIMUM 50% OF ALL INTERIOR LUMINAIRES SHALL BE HIGH EFFICACY LUMINAIRES. AND ALL EXTERIOR

LEAST ONE PROGRAMMABLE THERMOSTAT FOR

ALL HEADERS IN EXTERIOR WALLS TO HAVE A MINIMUM R-10 INSULATION.

LIGHTING SHALL BE HIGH EFFICACY LUMINAIRES (SEC

ALL DUCTS NOT LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE DUCTS SHALL BE INSULATED TO A MINIMUM OF R-8.

PROJECT INFORMATION

PROPERTY ADDRESS: 7431 E MERCER WAY MERCER ISLAND, WA 98040

PROJECT DESCRIPTION: PROJECT CONSISTS OF A NEW SINGLE-FAMILY

IMPERVIOUS AREAS:

STRUCTURE ROOF AREA 2,351 SF **ENTRY STAIR & WALKS** 400 SF PATIO AREA 435 SF **UNCOVERED UPPER DECK 1** 74 SF UNCOVERED UPPER DECK 2 114 SF PROPOSED DRIVEWAY 1,080 SF

RESIDENCE AND ASSOCIATED SITE WORK.

TOTAL IMPERVIOUS SURFACE 4,454 SF

BUILDING AREAS:

MAIN FLOOR 1.484 SF UPPER FLOOR 1,907 SF ROOF DECK STAIRS 80 SF TOTAL LIVABLE AREA 3,471 SF GARAGE 457 SF INTERIOR COURTYARD 96 SF GROSS BUILDING AREA 4,024 SF COURTYARD AREA EXCLUDED 3,928 SF

TOTAL GROSS FLOOR AREA

3,928 SF

3,928 SQ. FT.

(40 %)

GROSS FLOOR AREA

PROPOSED GROSS FLOOR AREA

NET LOT AREA 9,850 SQ. FT. LOT ALLOWED GROSS FLOOR AREA (40 %) 3,940 SQ. FT.

PROPOSED % OF LOT AREA

CONSULTANT:

studio19 architects

207- $\frac{1}{2}$ first ave. s | suite 300

www.studio19architects.com

seattle, washington 98104

el: 206.466.1225

PROFESSIONAL SEAL:



PROJECT:

RESIDENCE

7431 E MERCER WAY MERCER ISLAND. WA 98040

SHEET ISSUE:	
07/25/2019	PERMIT SUBMITTAL

MUNICIPALITY REVIEW: CITY OF MERCER ISLAND

PROJECT # 1907-103

SHEET TITLE:

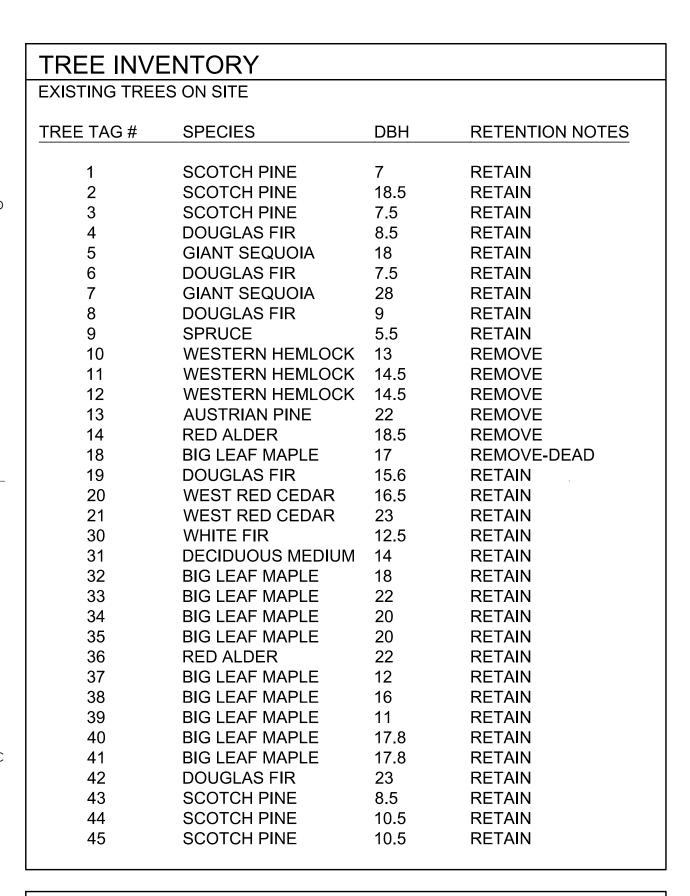
CODE SUMMARY **GENERAL NOTES**

PROJECT NO.: DATE ISSUED:

SHEET NUMBER:

20190130

07/25/2019

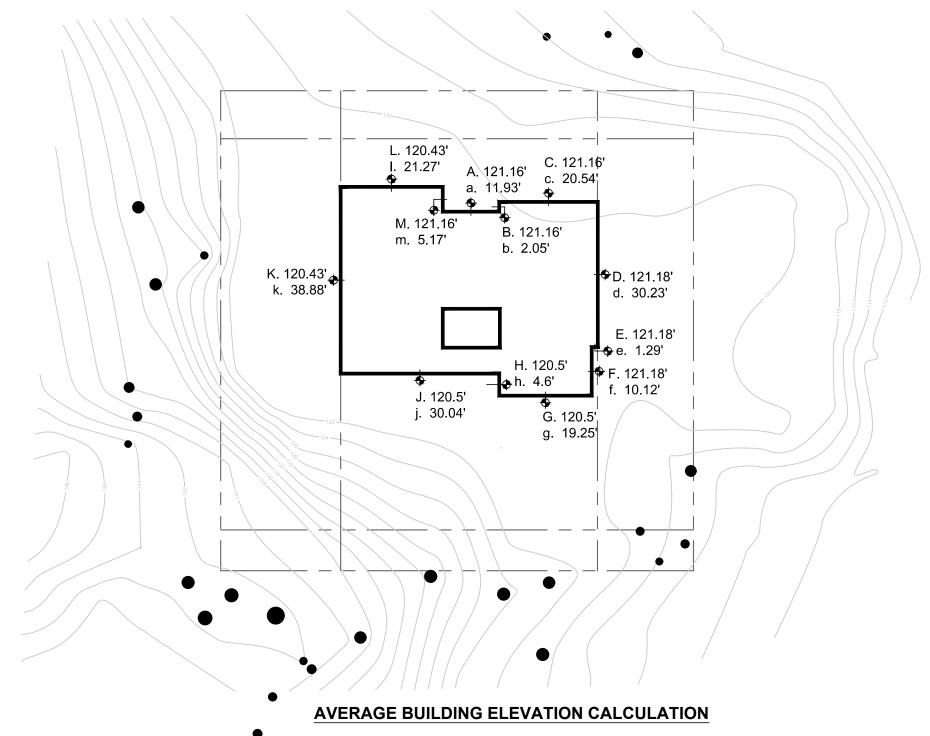


TREE INVENTORY					
EXISTING TREE	S OFF SITE				
TREE TAG #	SPECIES	DBH	RETENTION NOTES		
15	RED ALDER	13	VIABLE		
16	RED ALDER	11	VIABLE		
17	BIG LEAF MAPLE	20	NEEDS ASSESSMENT		
22	BIG LEAF MAPLE	22	NEEDS ASSESSMENT		
23	RED ALDER	18	NEEDS ASSESSMENT		
24	BIG LEAF MAPLE	13	NEEDS ASSESSMENT		
25	BIG LEAF MAPLE	15	NEEDS ASSESSMENT		
26	BIG LEAF MAPLE	22	NEEDS ASSESSMENT		
27	BIG LEAF MAPLE	25	VIABLE		
28	BIG LEAF MAPLE	38.74	EXCEPT./VIABLE		
29	WEST RED CEDAR	13	VIABLE		

LOT COVERAGE CALCULATIONS				
9,850 SF 3,447.5 SF (35% BASED ON LOT SLOPE)				
2,351 SF 1,080 SF				
3,431 SF (34%)				

HARD SURFACE CALCULATIONS				
NET LOT AF	REA:	9,850 SF		
MAX HARDS	SCAPE:	886.5 SF (9% OF LOT AREA)		
PROPOSED	:	835 (8%)		

LANDSCAPING CALCULATIONS				
NET LOT AREA:	9,850 SF			
REQUIRED LANDSCAPING AREA:	6,402.5 SF (65% OF LOT AREA)			
PROPOSED:	6,950 SF (70%)			



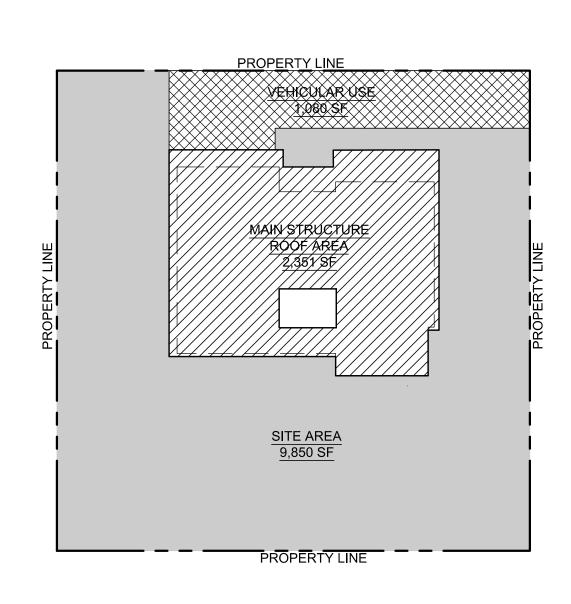
 $\frac{(\mathsf{Axa}) + (\mathsf{Bxb}) + (\mathsf{Cxc}) + (\mathsf{Dxd}) + (\mathsf{Exe}) + (\mathsf{Fxf}) + (\mathsf{Gxg}) + (\mathsf{Hxh}) + (\mathsf{Jxj}) + (\mathsf{Kxk}) + (\mathsf{Lxl}) + (\mathsf{Mxm})}{\mathsf{a} + \mathsf{b} + \mathsf{c} + \mathsf{d} + \mathsf{e} + \mathsf{f} + \mathsf{g} + \mathsf{h} + \mathsf{j} + \mathsf{k} + \mathsf{l} + \mathsf{m}}$

 $\frac{(121.16x11.93) + (121.16x2.05) + (121.16x20.54) + (121.18x30.23) + (121.18x30.23) + (121.18x10.12) + (121.18x10.12) + (120.5x19.25) + (120.5x4.6) + (120.5x30.04) + (120.4x38.88) + (120.43x21.27) + (121.16x5.17)}{11.93 + 2.05 + 20.54 + 30.23 + 1.29 + 10.12 + 19.25 + 4.6 + 30.04 + 38.88 + 21.27 + 5.17}$

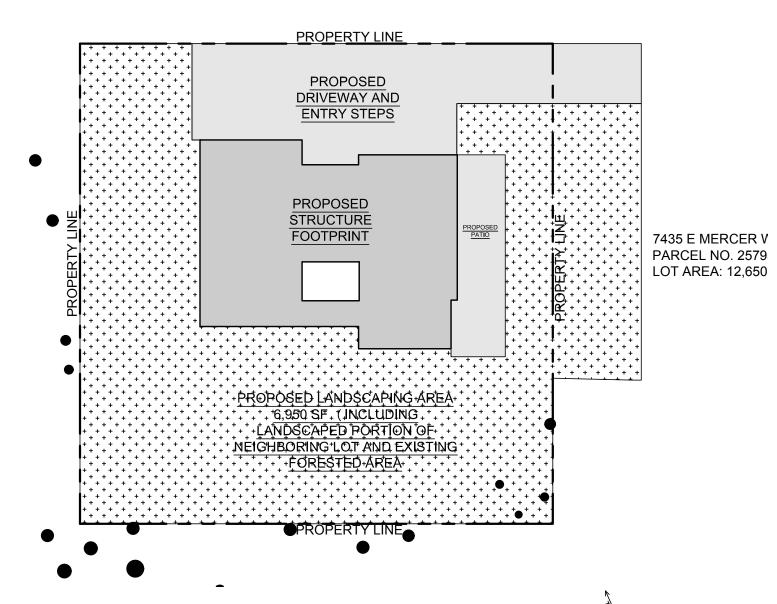
23591.17' 195.37' A.B.E. =120.75'

SPOT ELEVATIONS FOR HEIGHT CALCULATIONS

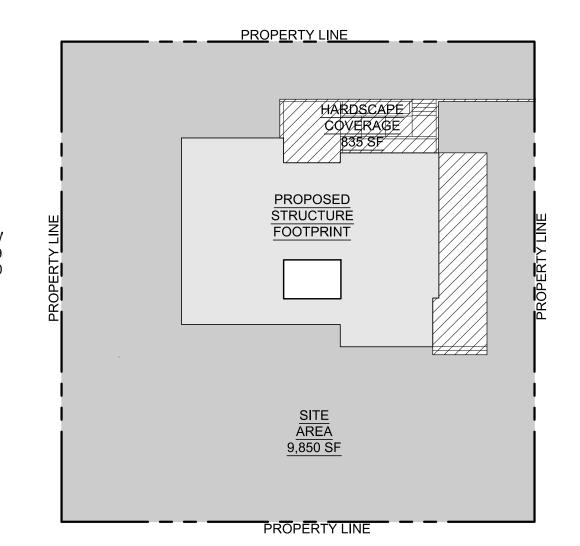
SCALE: 1" = 20'-0"



LOT COVERAGE CALCULATIONS
SCALE: 1"=20'-0"



LANDSCAPE COVERAGE CALCULATIONS
SCALE: 1"=20'-0"



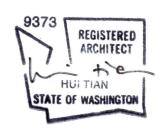
HARDSCAPE COVERAGE CALCULATIONS

SCALE: 1"=20'-0"



CONSULTANT:

PROFESSIONAL SEAL:



PROJECT:

YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040 USA

	SHEET ISSUE:	
В	07/25/2019	PERMIT SUBMITTAL

MUNICIPALITY REVIEW: CITY OF MERCER ISLAND PROJECT # 1907-103

SHEET TITLE:

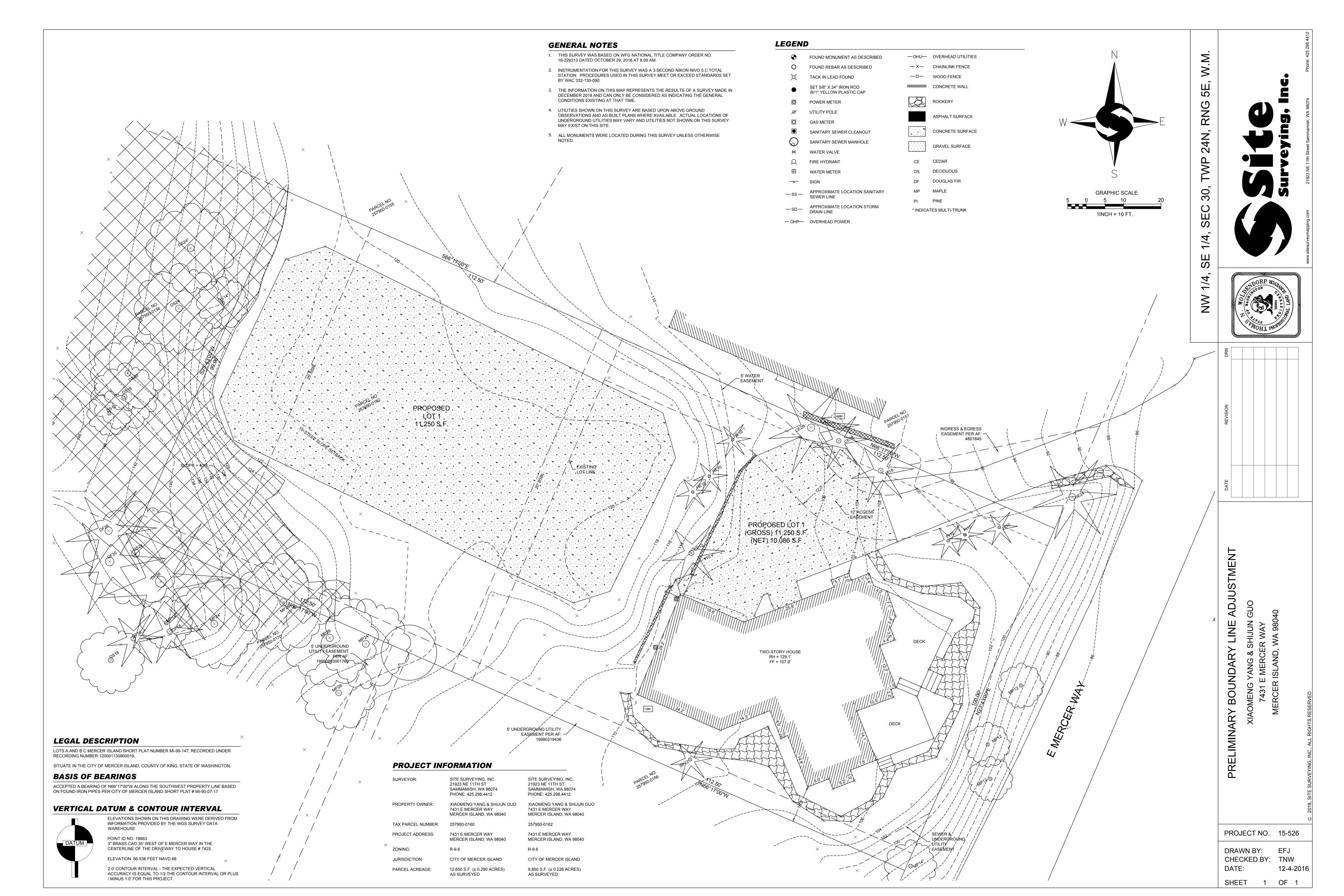
CALCULATIONS SPOT ELEVATIONS

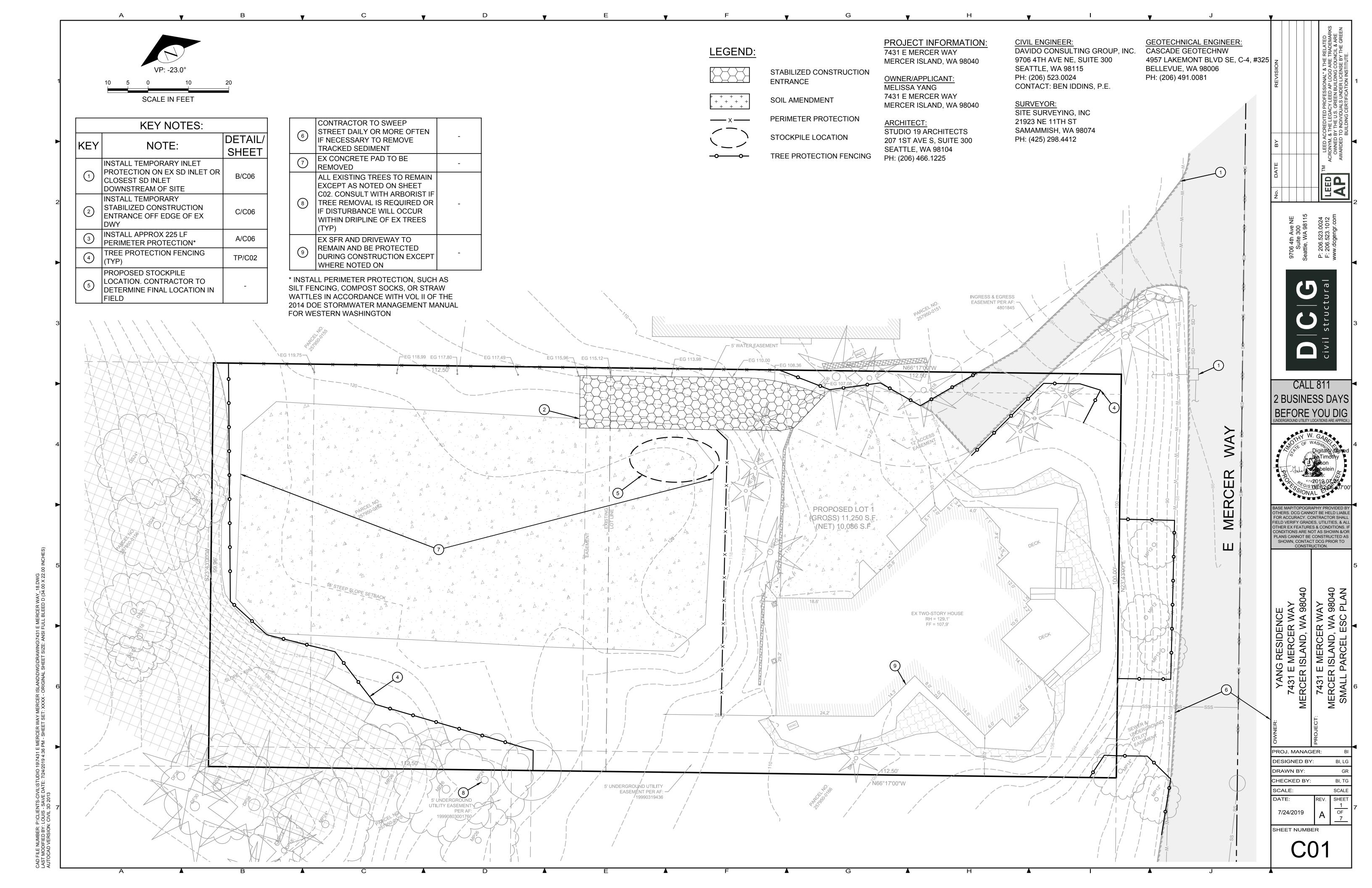
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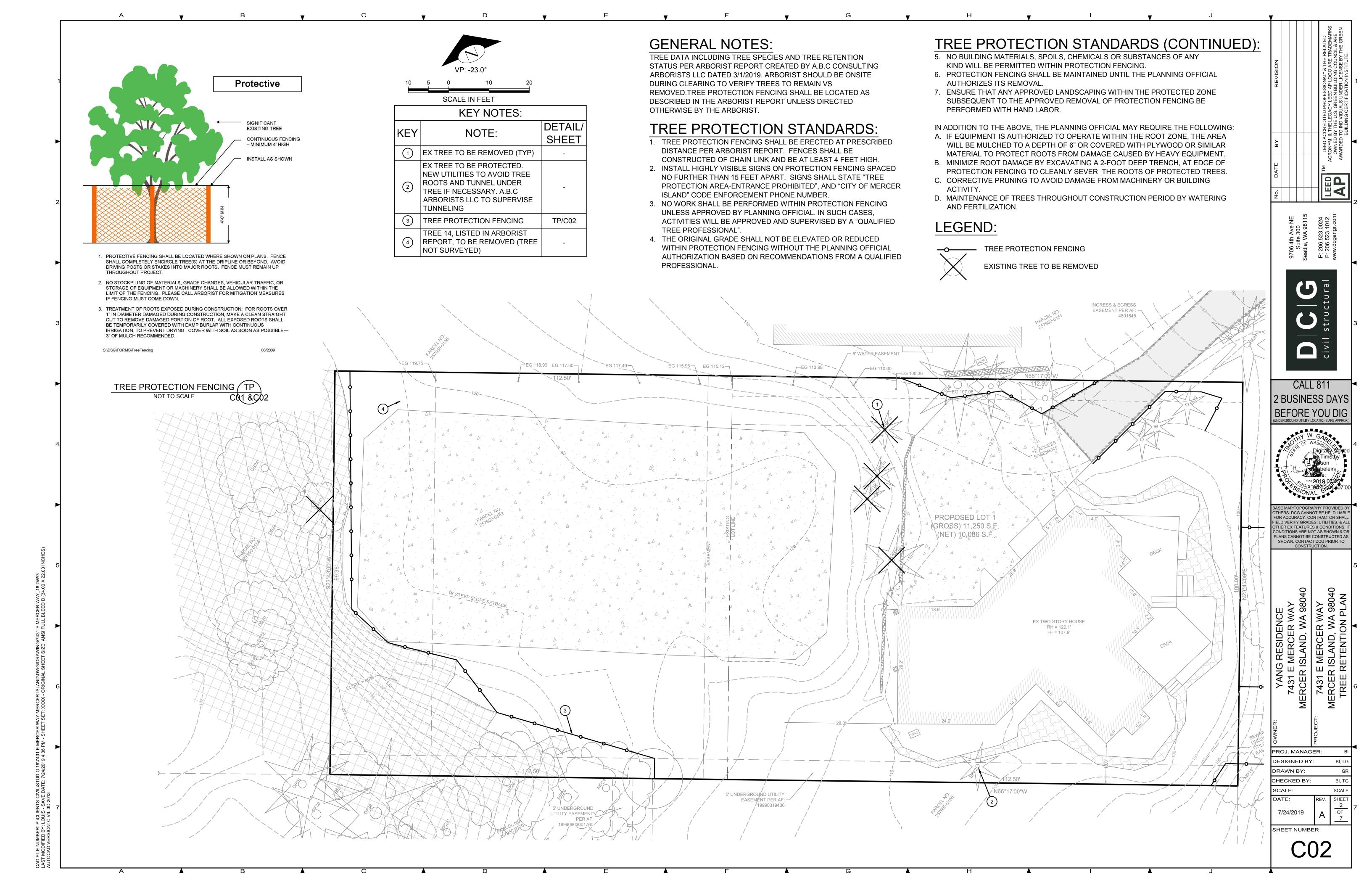
20190130 07/25/2019

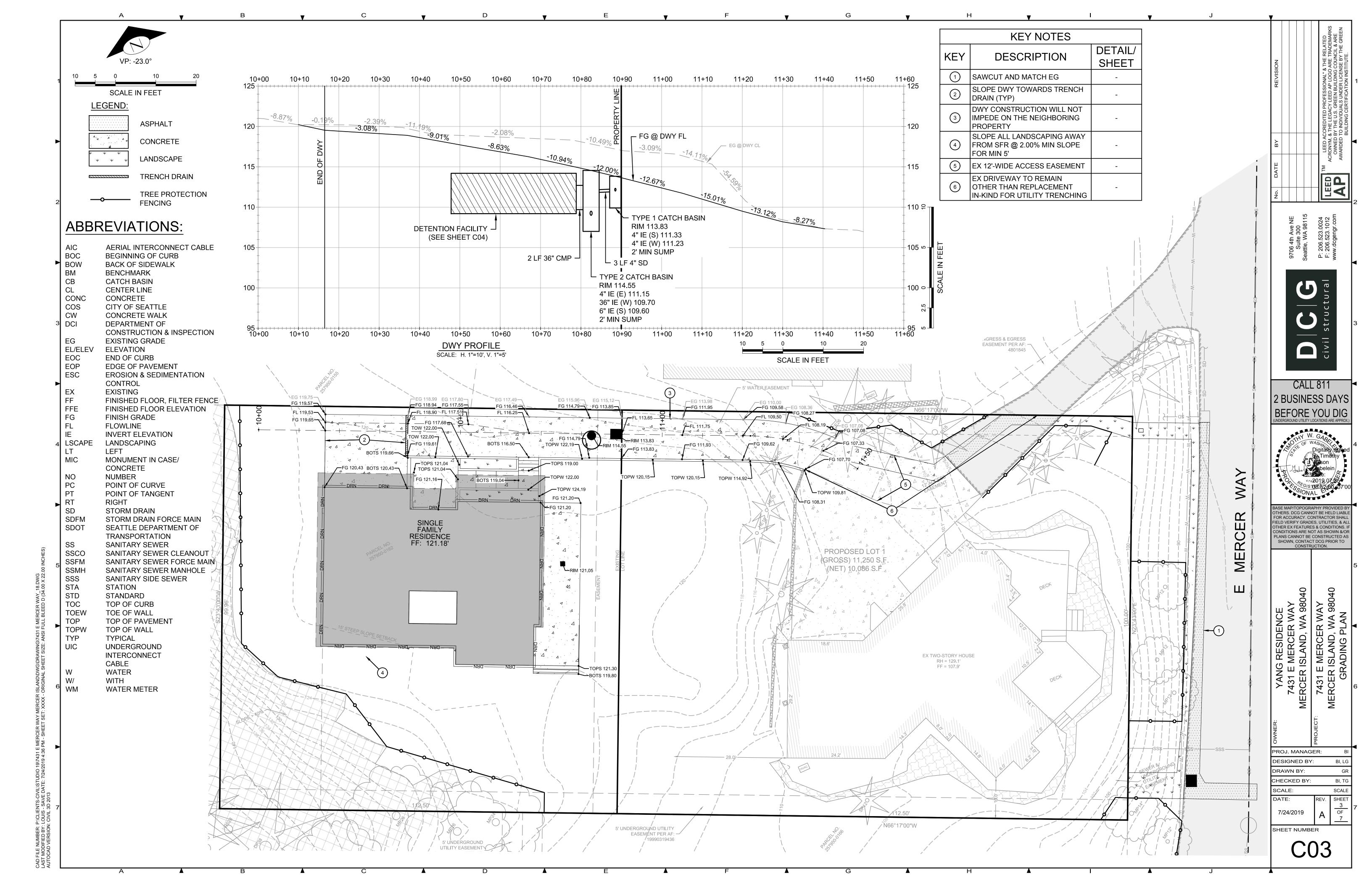
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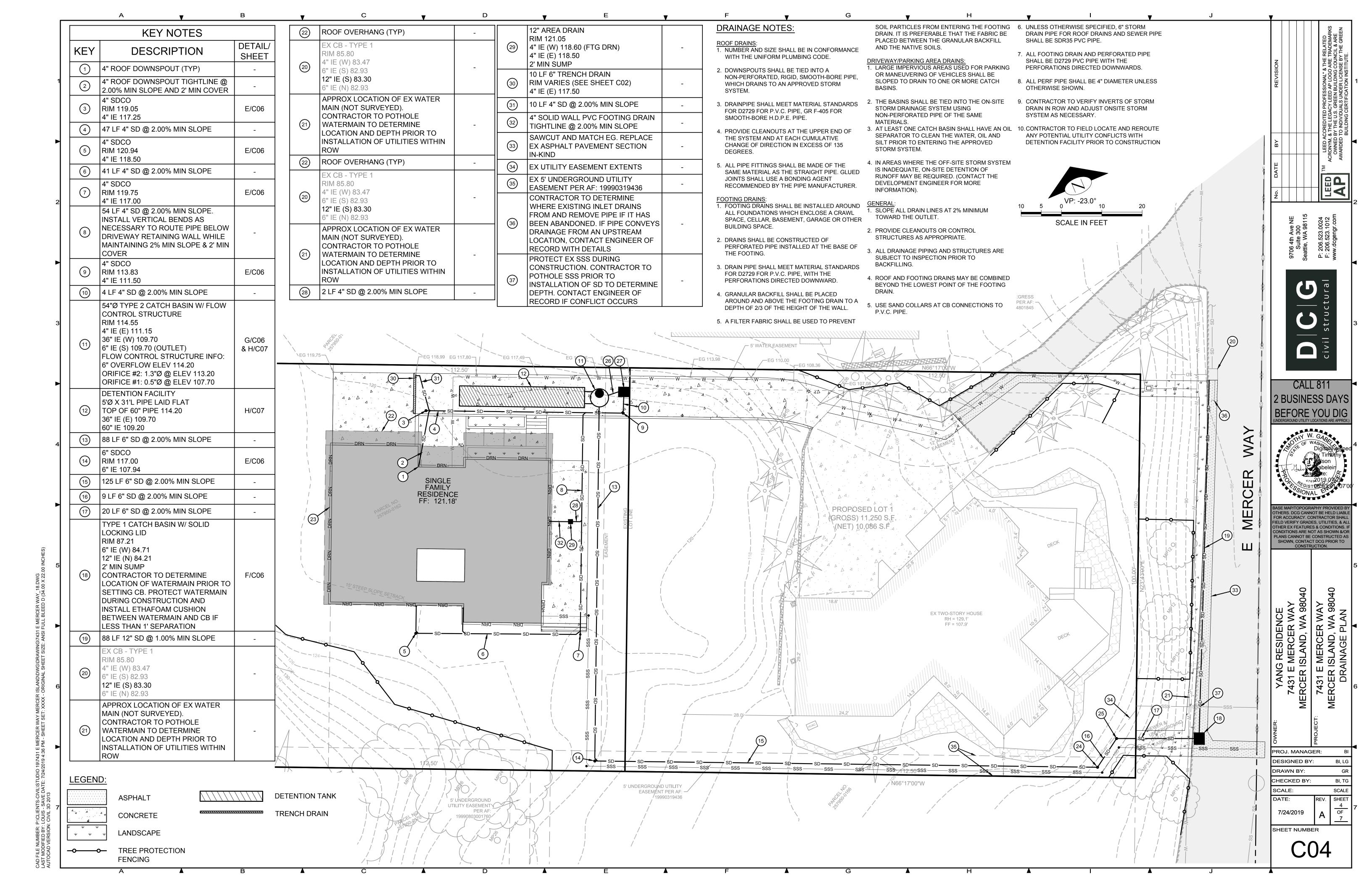
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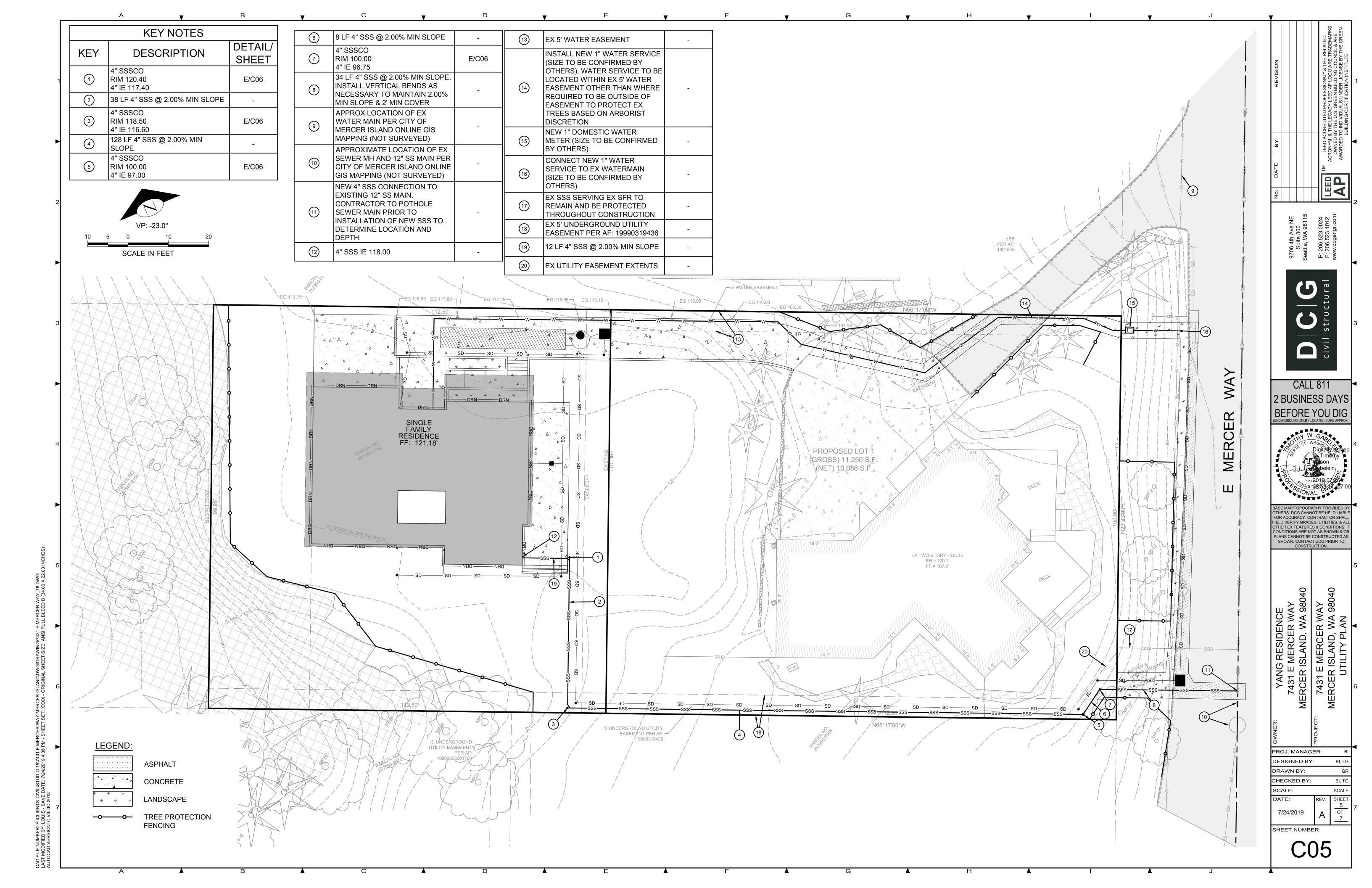


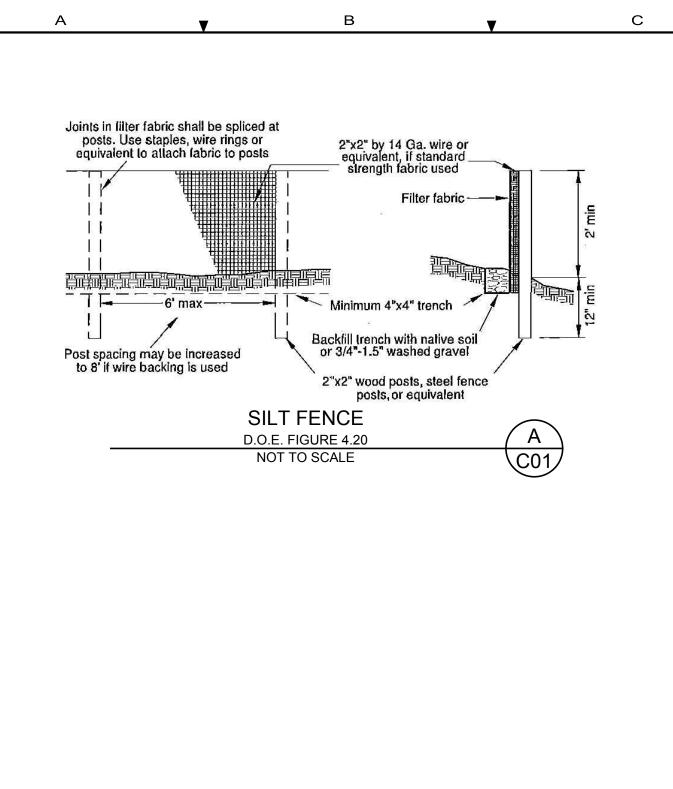


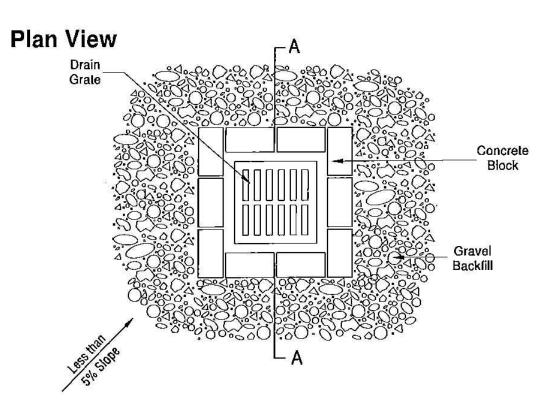


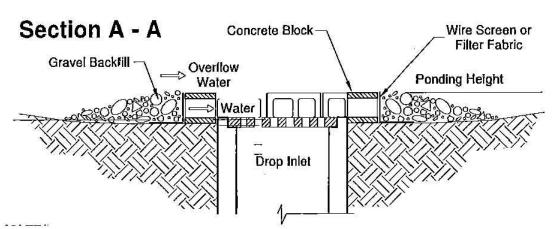






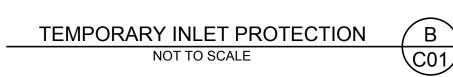


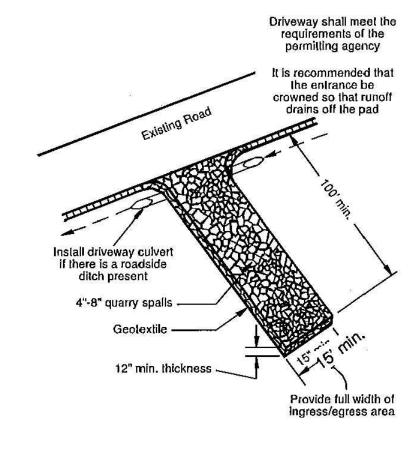


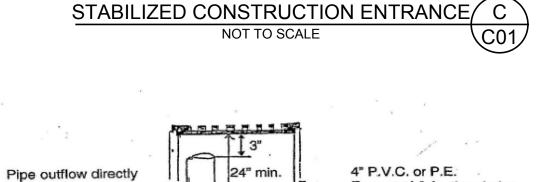


1. Drop inlet sediment barriers are to be used for small, nearly level drainage areas. (less than 5%) 2. Excavate a basin of sufficient size adjacent to the drop inlet.

3. The top of the structure (ponding height) must be well below the ground elevation downslope to prevent runoff from bypassing the inlet. A temporary dike may be necessary on the dowslope side of the structure.







From roof & footing drains

D`

C04

CATCH

BASIN

DIAMETER

48"

54"

60"

72"

84"

96"

120"

144"

MIN.

WALL

4.5"

5"

6"

8"

8"

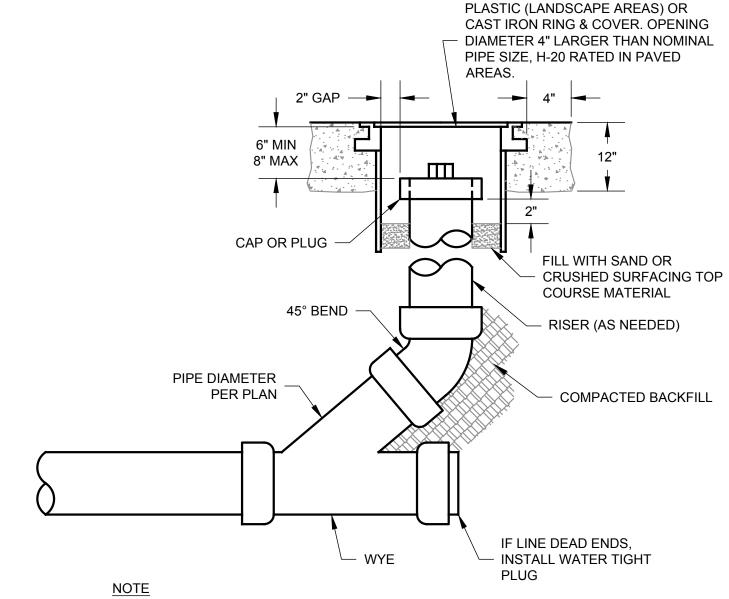
10"

12"

Drain system Or watercourse

Catch Basin with Oil Separator





CAST IRON COVER SHALL READ "SEWER", "STORM" OR "CO."



NOTES

MAXIMUM | MINIMUM

KNOCKOUT DISTANCE

SIZE

42"

48"

72"

84"

108"

BETWEEN

KNOCKOUTS

8"

8"

8"

12"

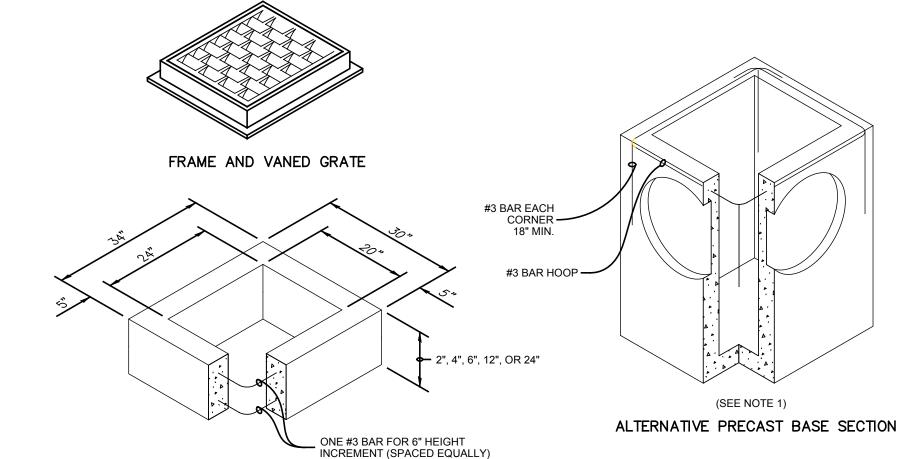
12"

12"

12"

12"

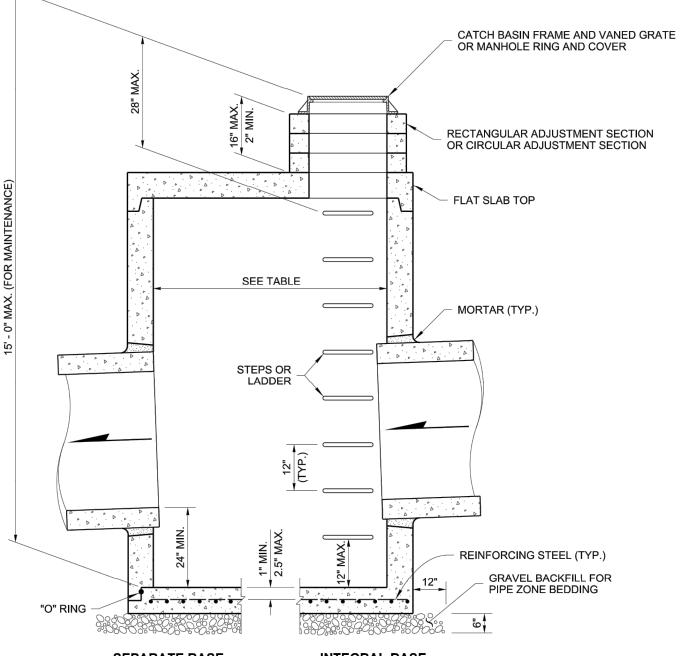
- 1. No steps are required when height is 4' or less.
- 2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
- 3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
- 4. Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.



NOTES

knockouts.

PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP* (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"



PIPE ALLOWANCES							
CATCH	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER						
BASIN DIAMETER	CONCRETE	ALL METAL	CPSSP 1 PP 4	SOLID WALL PVC ²	PROFILE WALL PVC ³		
48"	24"	30"	24"	30"	30"		
54"	30"	36"	30"	36"	36"		
60"	36"	42"	36"	42"	42"		
72"	42"	54"	42"	48"	48"		
84"	54"	60"	54"	48"	48"		
96"	60"	72"	60"	48"	48"		
120"	66"	84"	60"	48"	48"		
1///"	70"	06"	60"	/Q"	/Q"		

4 Polypropylene Pipe (See Standard Specification Section 9-05.24)

CATCH BASIN DIMENSIONS

MIN.

BASE

8"

8"

8"

12"

12"

12"

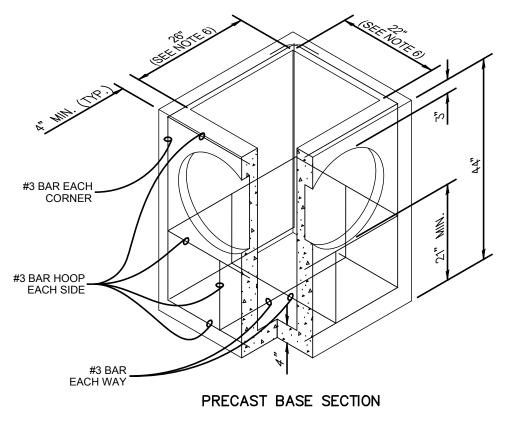
12"

THICKNESS | THICKNESS |

144" | 78" | 96" | 60" | 48" | 48" ① Corrugated Polyethylene Storm Sewer Pipe (See Standard Specification Section 9-05.20) ② (See Standard Specification Section 9-05.12(1)) ③ (See Standard Specification Section 9-05.12(2))

SEPARATE BASE INTEGRAL BASE PRECAST WITH RISER PRECAST (48" (IN) - 72" (IN) ONLY) TYPE 2 CATCH BASIN WSDOT B10.20-02E NOT TO SCALE

To approved



CATCH BASIN TYPE 1

PER WSDOT STD PLAN B-5.20-00

NOT TO SCALE

RECTANGULAR ADJUSTMENT SECTION

- 2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3. 3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'. cast into the adjustment section with flange up.
- The frame and grate may be installed with the flange down, or integrally
- 5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.

1. As acceptable alternatives to the rebar shown in the PRECAST BASE

SECTION, fibers (placed according to the Standard Specifications), or

wire mesh having a minimum area of 0.12 square inches per foot shall

be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the

- 6. The opening shall be measured at the top of the Precast Base Section.
- 7. All pickup holes shall be grouted full after the basin has been placed.

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F C04						
1004						
\C04/						
\						

CALL 811

2 BUSINESS DAYS

BEFORE YOU DIG

THERS. DCG CANNOT BE HELD LIABL

FOR ACCURACY. CONTRACTOR SHALL FIELD VERIFY GRADES, UTILITIES, & ALL

OTHER EX FEATURES & CONDITIONS. I

PLANS CANNOT BE CONSTRUCTED AS SHOWN, CONTACT DCG PRIOR TO

CONSTRUCTION

WAY_18.DWG D (34.00 X 22.0

CAD FILE NUMBER: P:\CLIENTS-CIVIL\ST LAST MODIFIED BY: LOUIS - SAVE DATE: AUTOCAD VERSION: CIVIL 3D 2013

7/24/2019 SHEET NUMBER

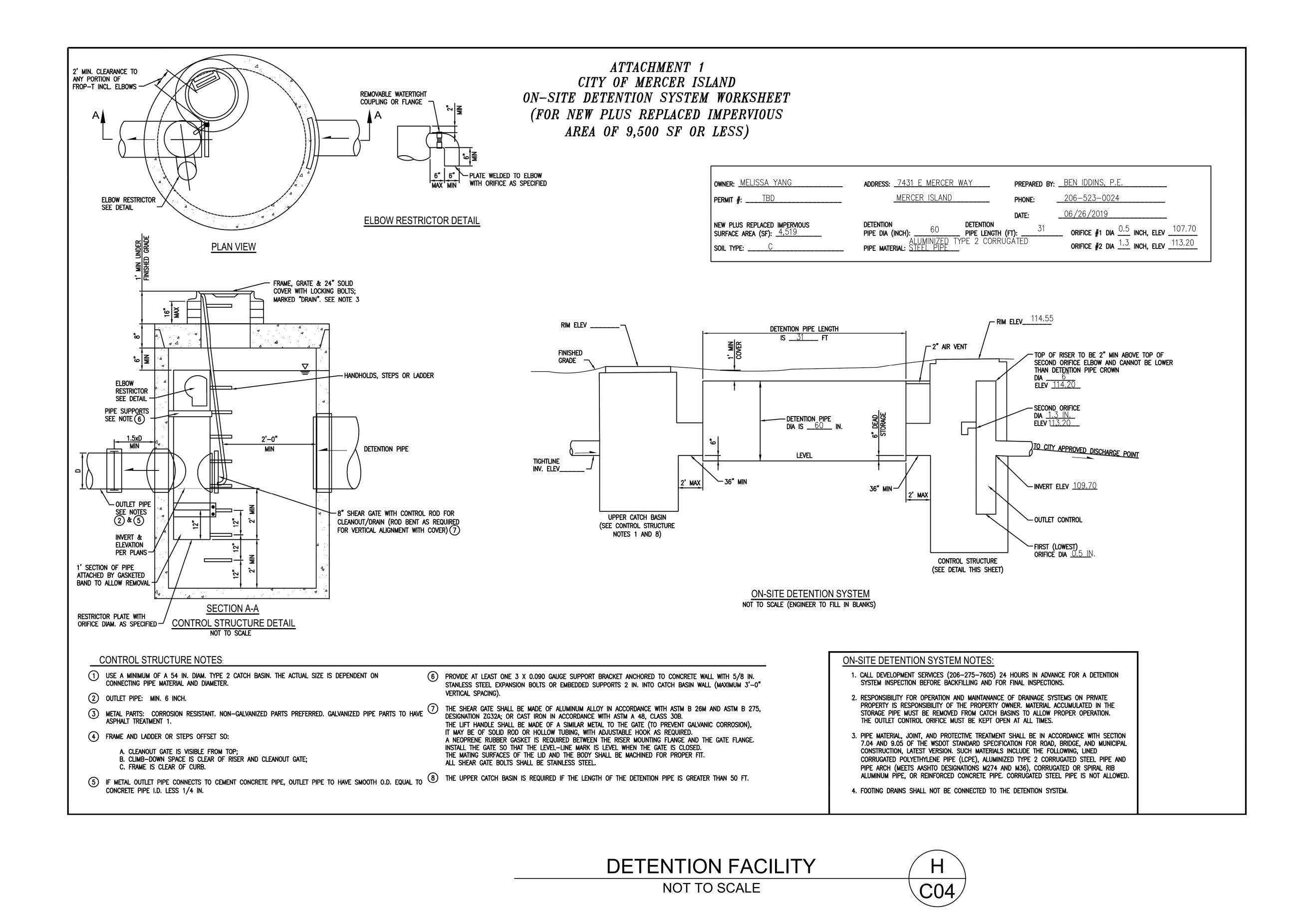
PROJ. MANAGER:

DESIGNED BY:

DRAWN BY:

CHECKED BY:

SCALE:



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CALL 811

2 BUSINESS DAYS

BEFORE YOU DIG

THERS. DCG CANNOT BE HELD LIABL

FOR ACCURACY. CONTRACTOR SHAL

FIELD VERIFY GRADES, UTILITIES, & AL

THER EX FEATURES & CONDITIONS

SHOWN, CONTACT DCG PRIOR TO CONSTRUCTION.

YANG RESIDENCE
7431 E MERCER WA
ERCER ISLAND, WA 9
7431 E MERCER WA
ERCER ISLAND, WA 9
DETAILS

PROJ. MANAGER: DESIGNED BY:

DRAWN BY: CHECKED BY:

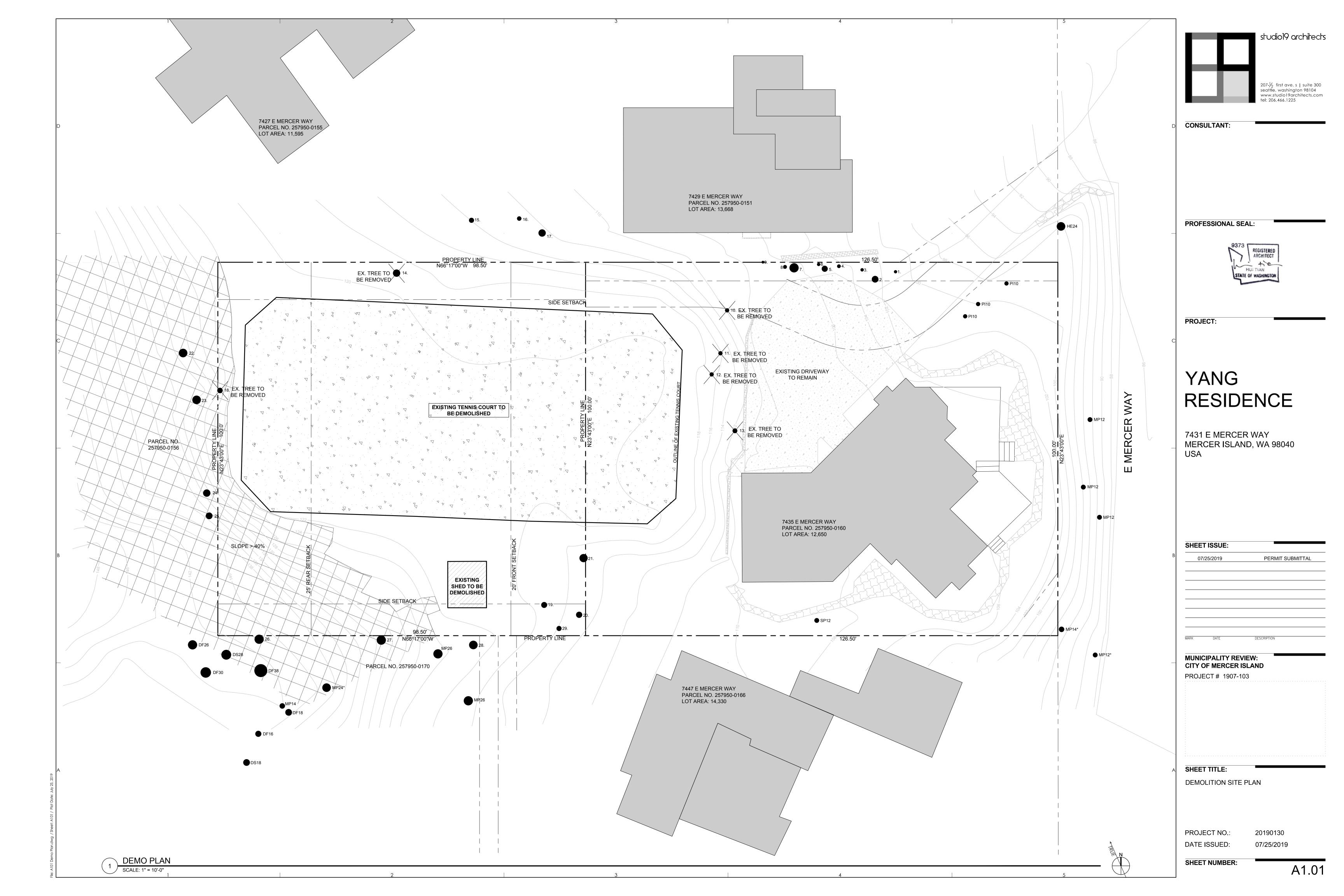
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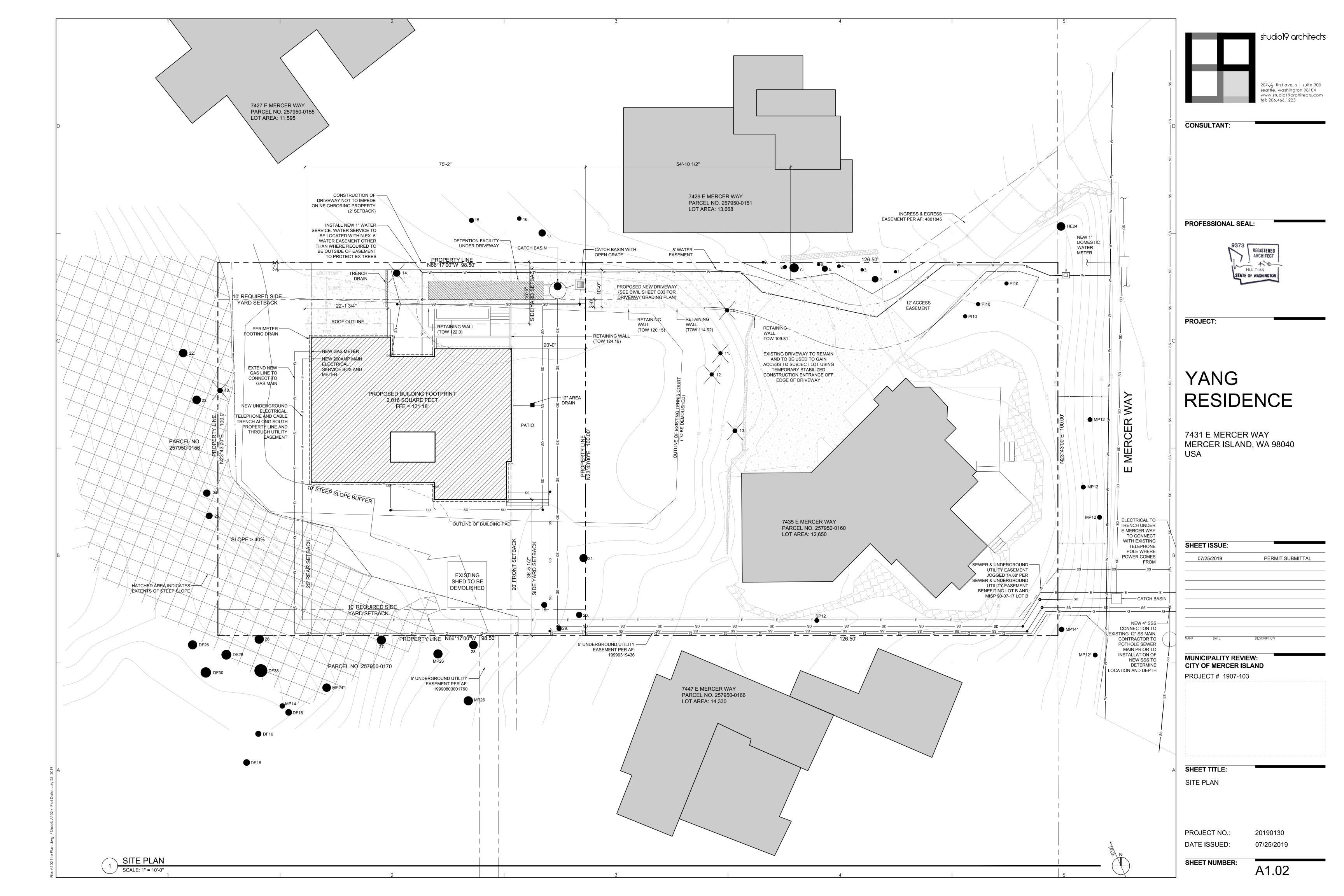
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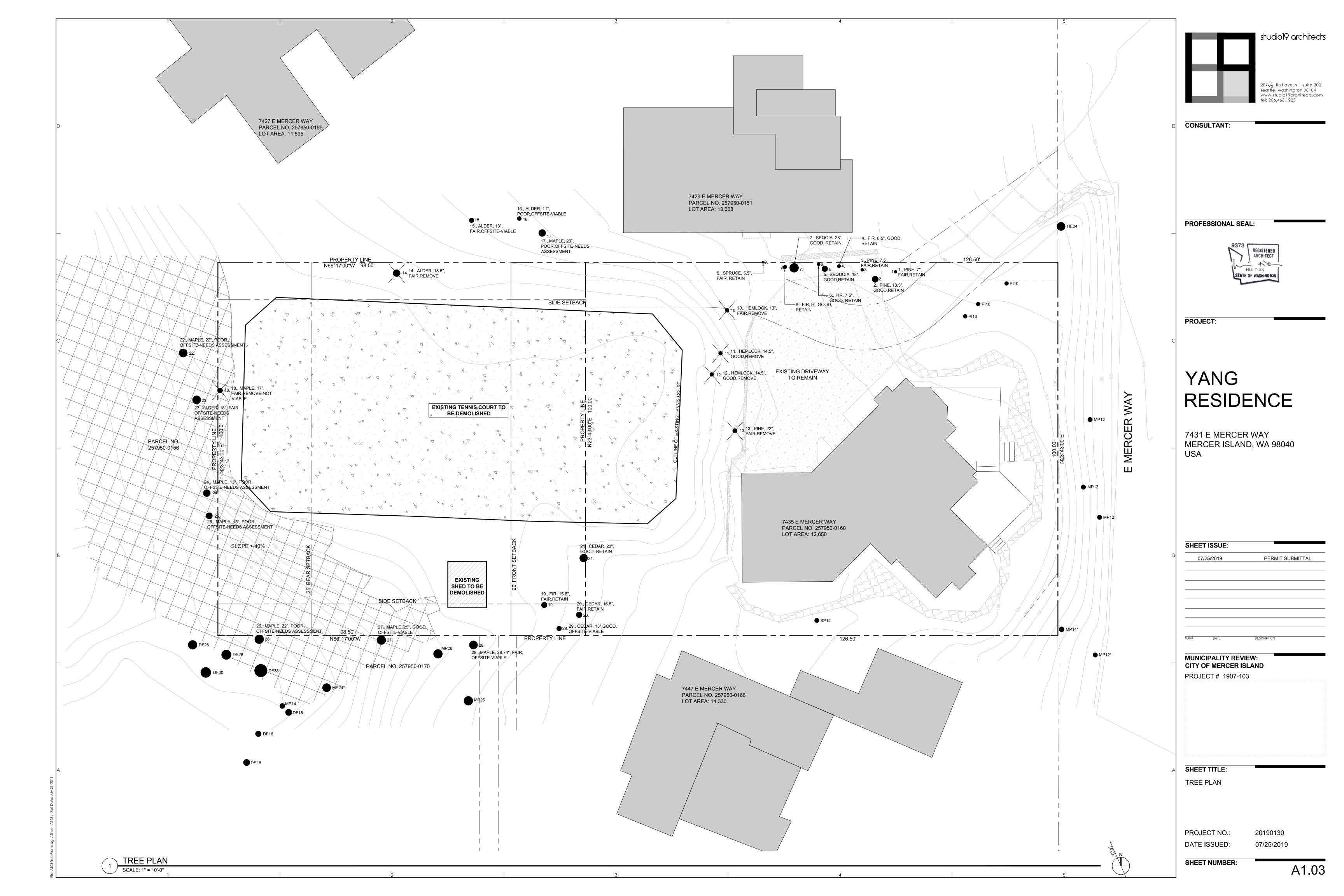
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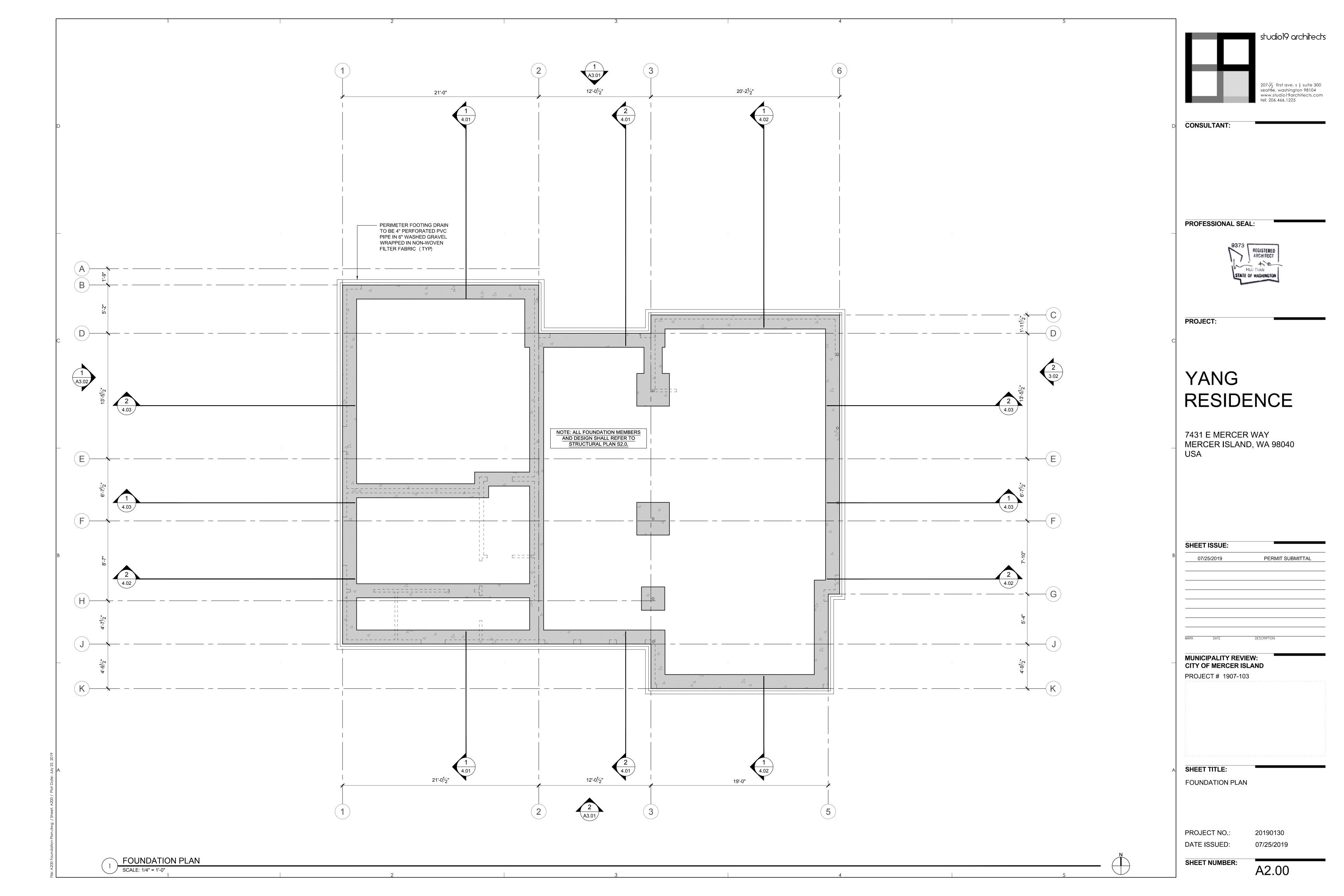
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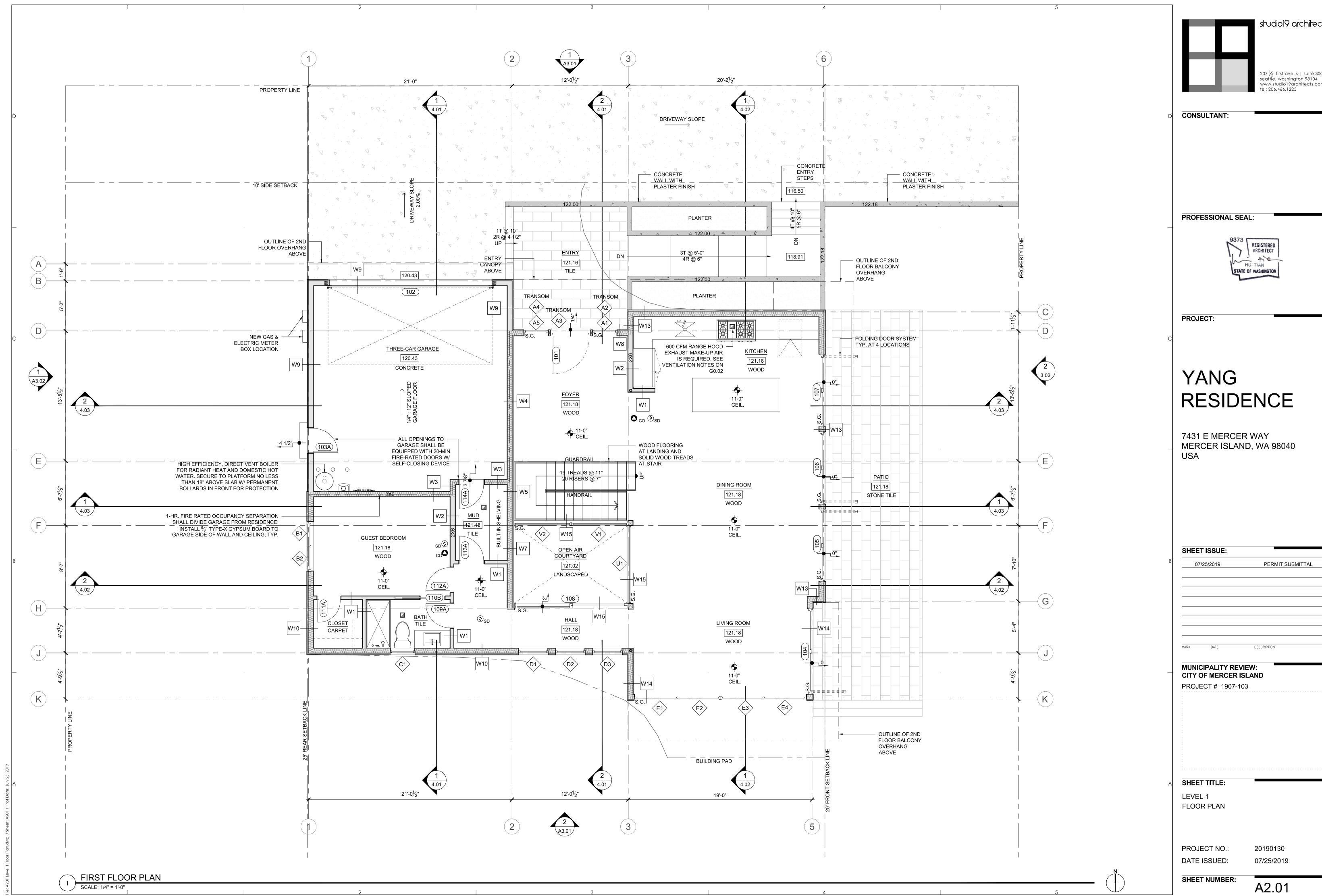
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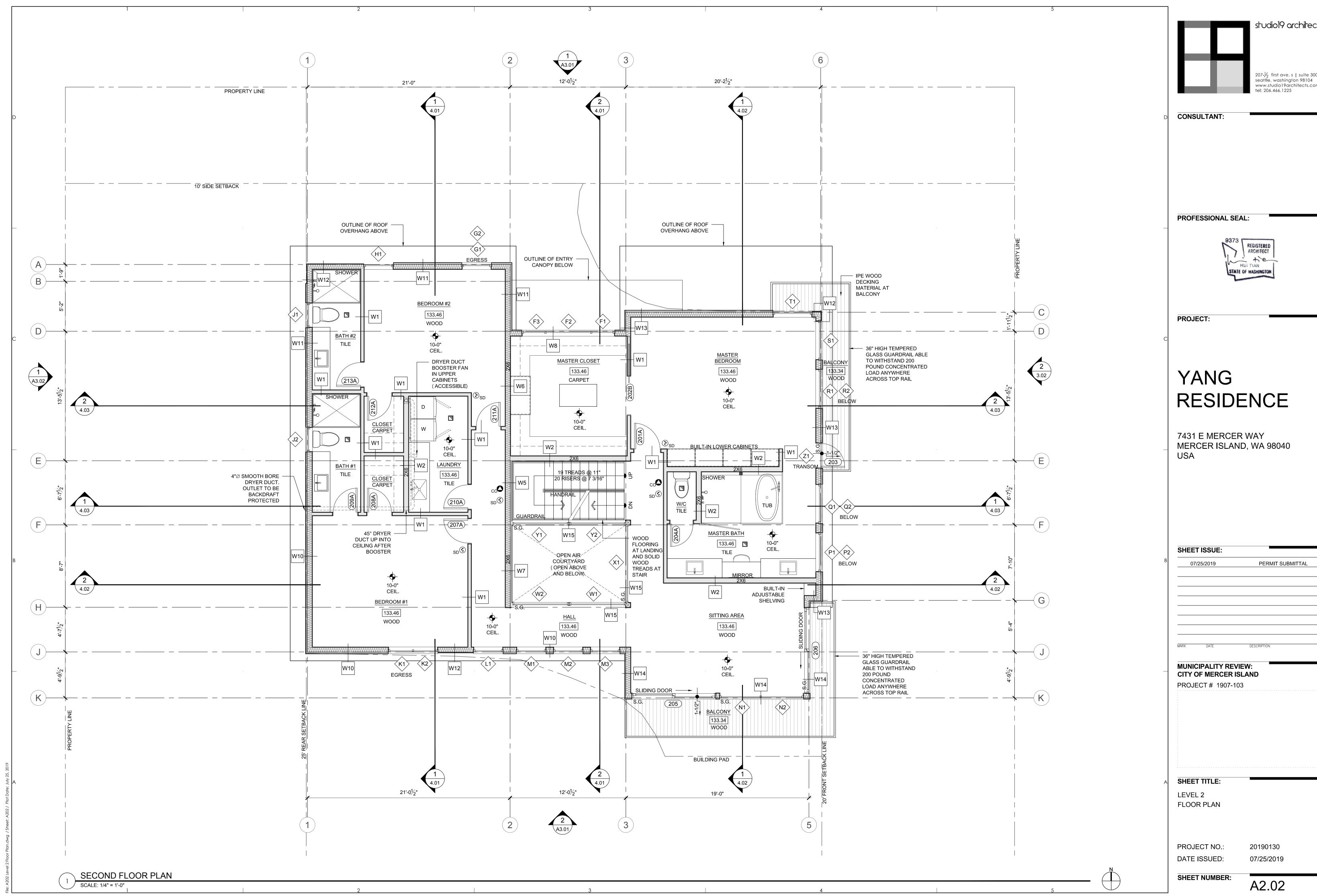




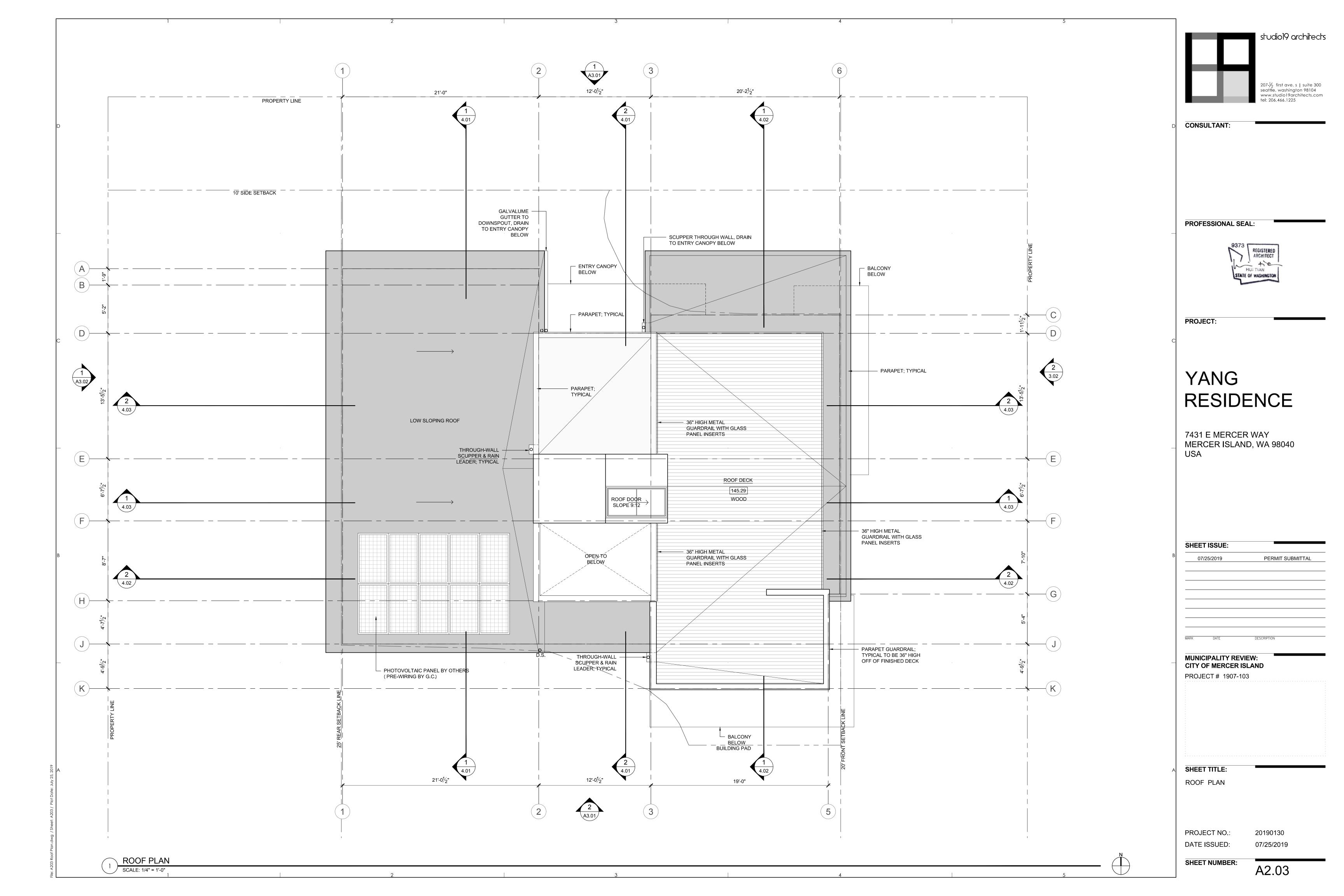


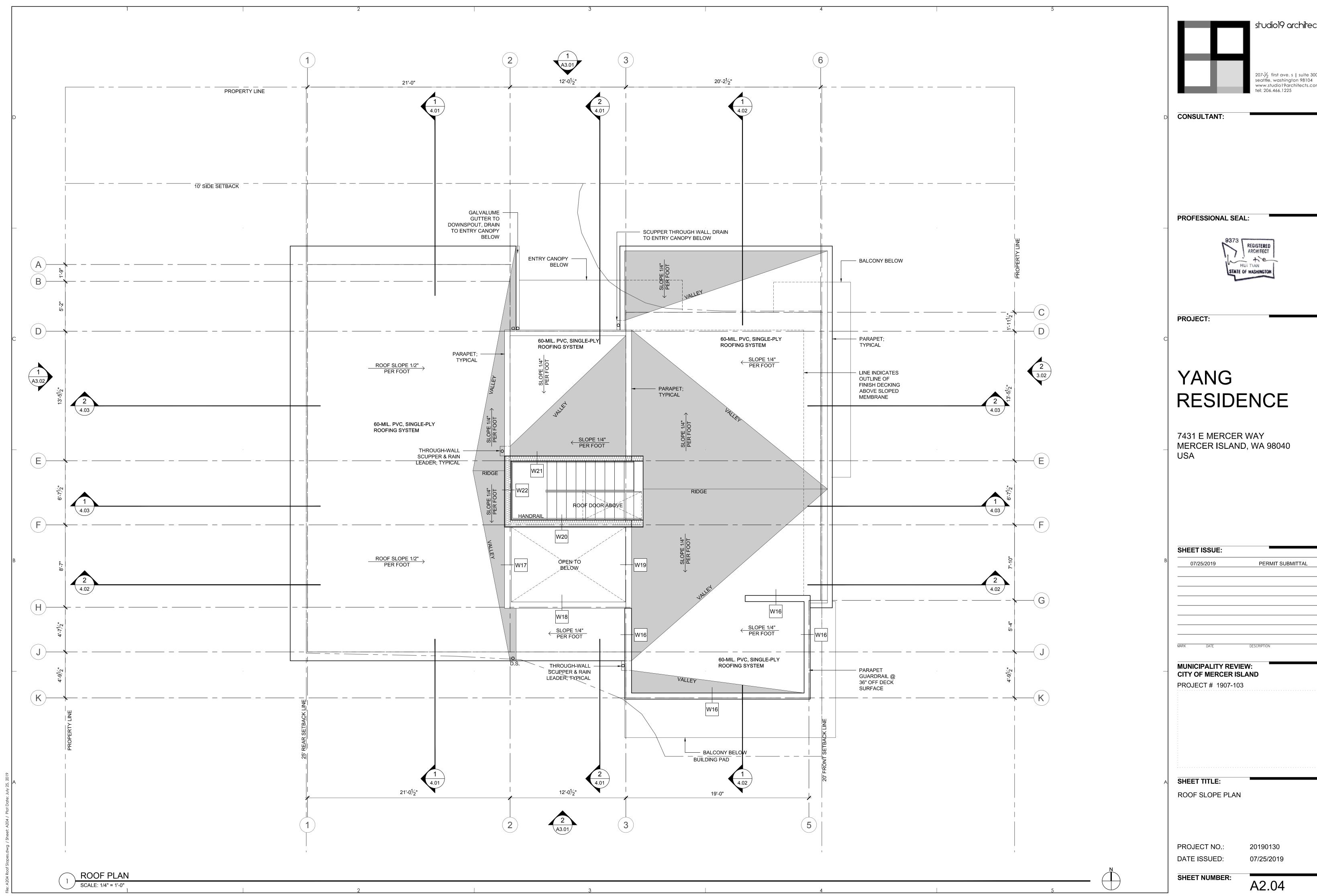


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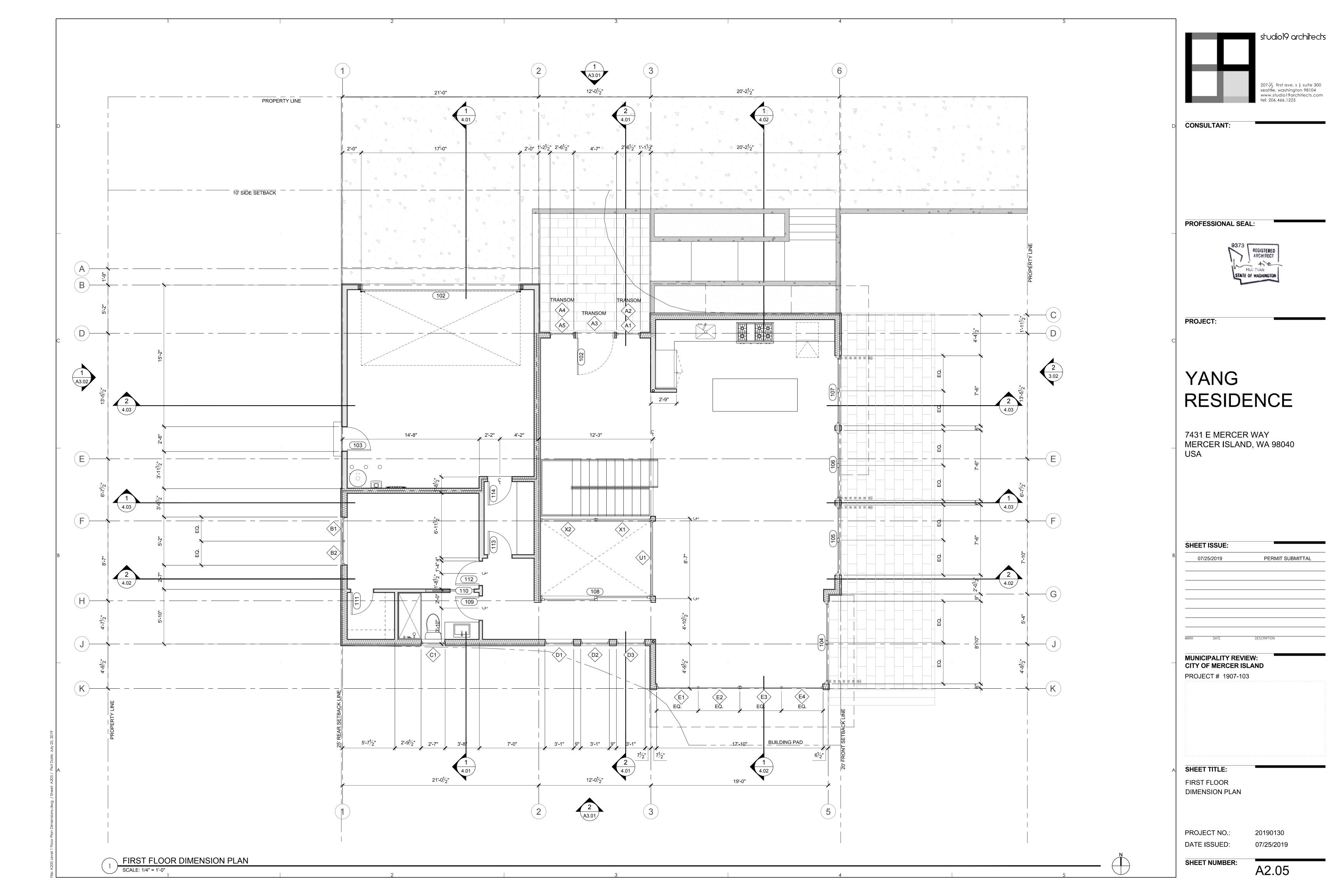


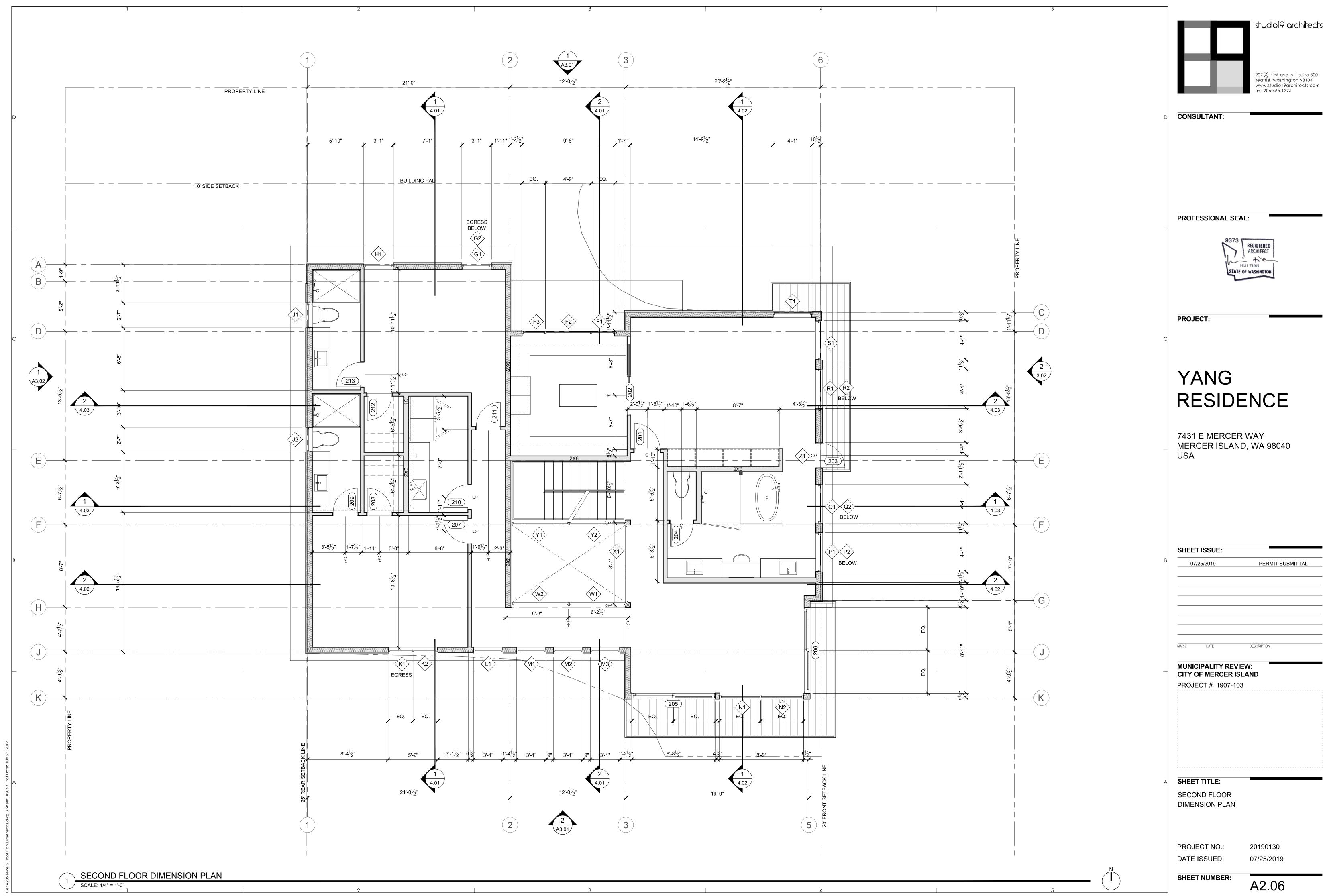
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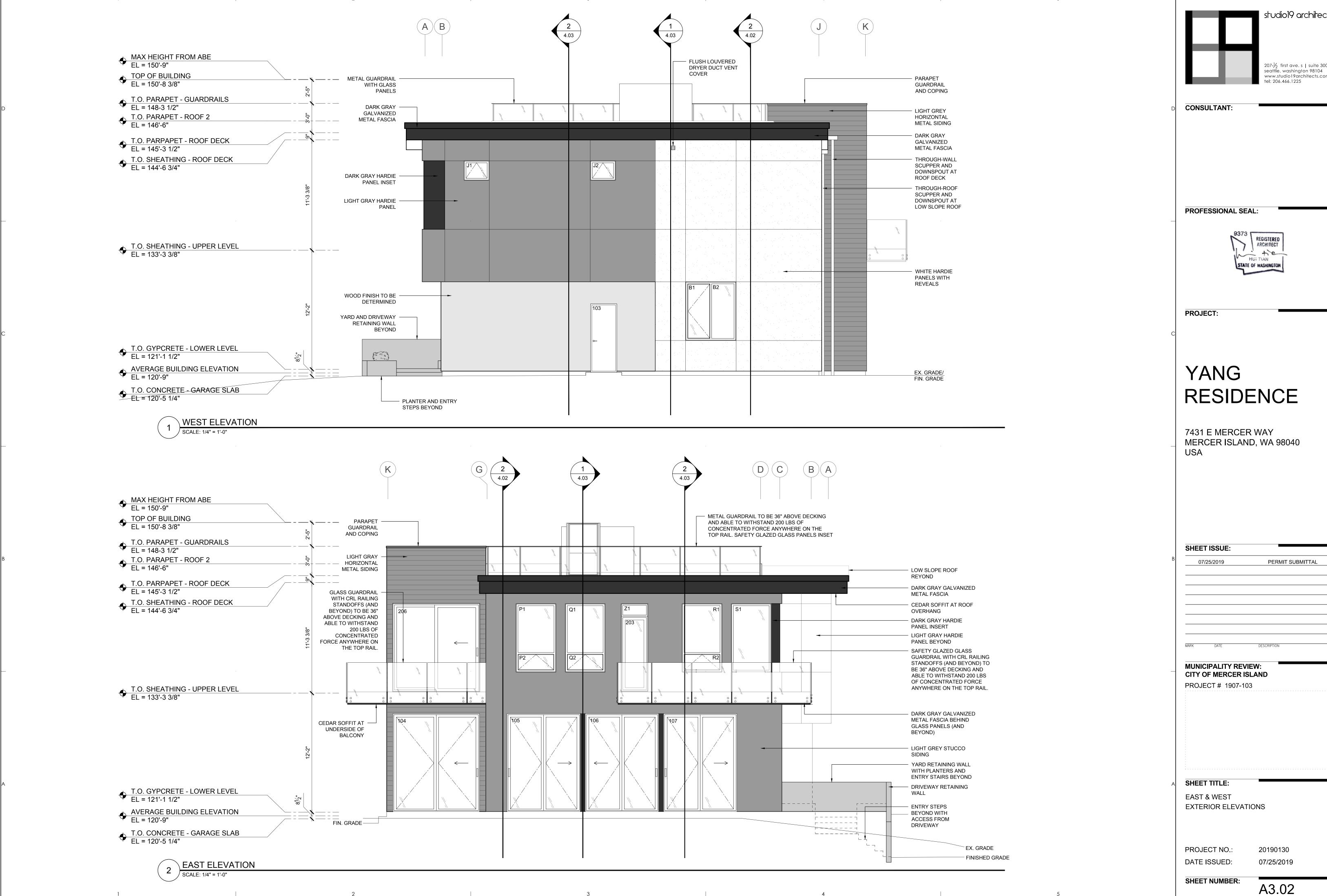




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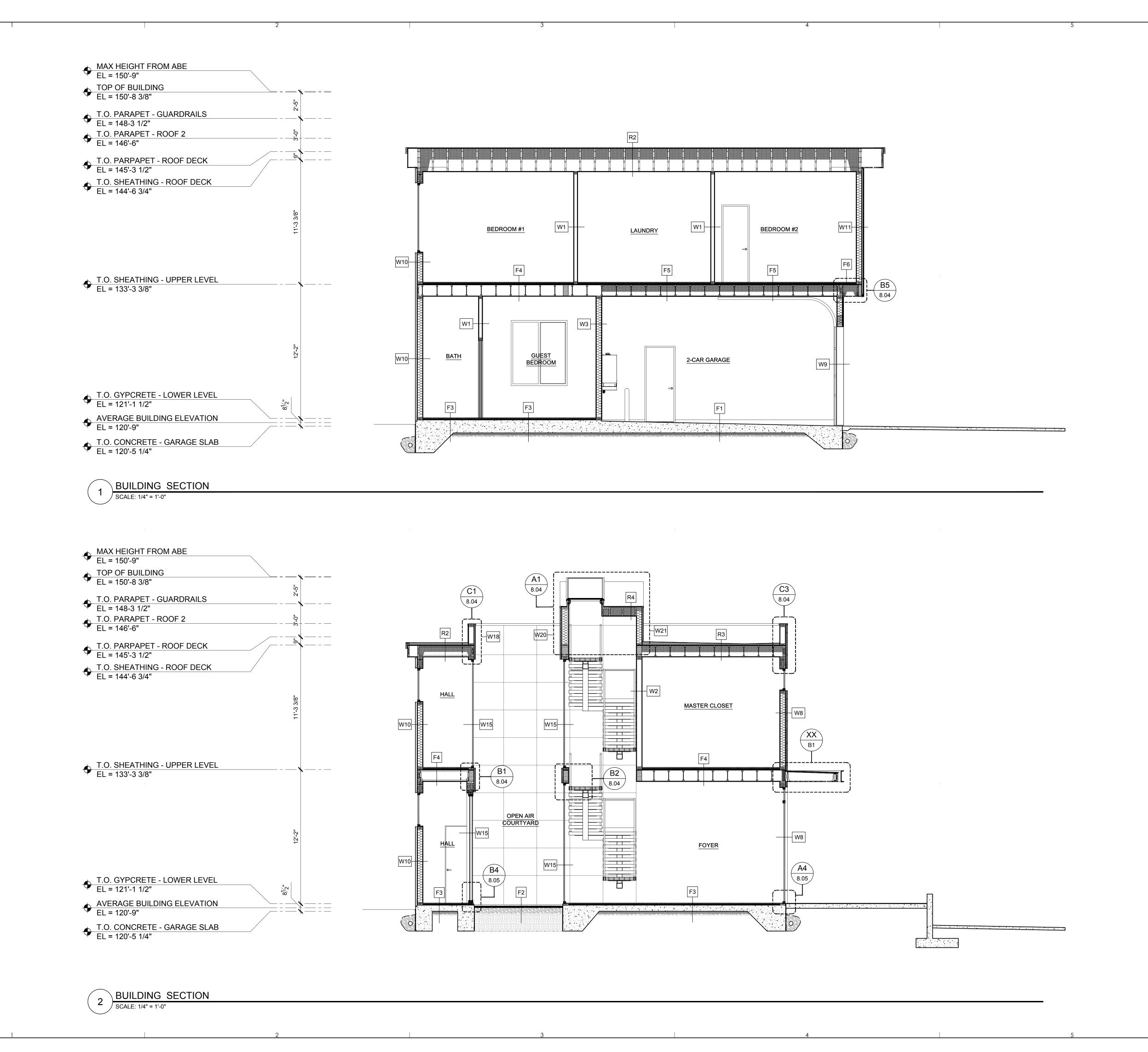


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studio19 architects

207-1/2 first ave. s | suite 300 seattle, washington 98104 www.studio19architects.com tel: 206.466.1225

CONSULTANT:

PROFESSIONAL SEAL:



PROJECT:

YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040 USA

SHEET ISSUE:	
07/25/2019	PERMIT SUBMITTAL

MUNICIPALITY REVIEW:

PROJECT # 1907-103

CITY OF MERCER ISLAND

SHEET TITLE:

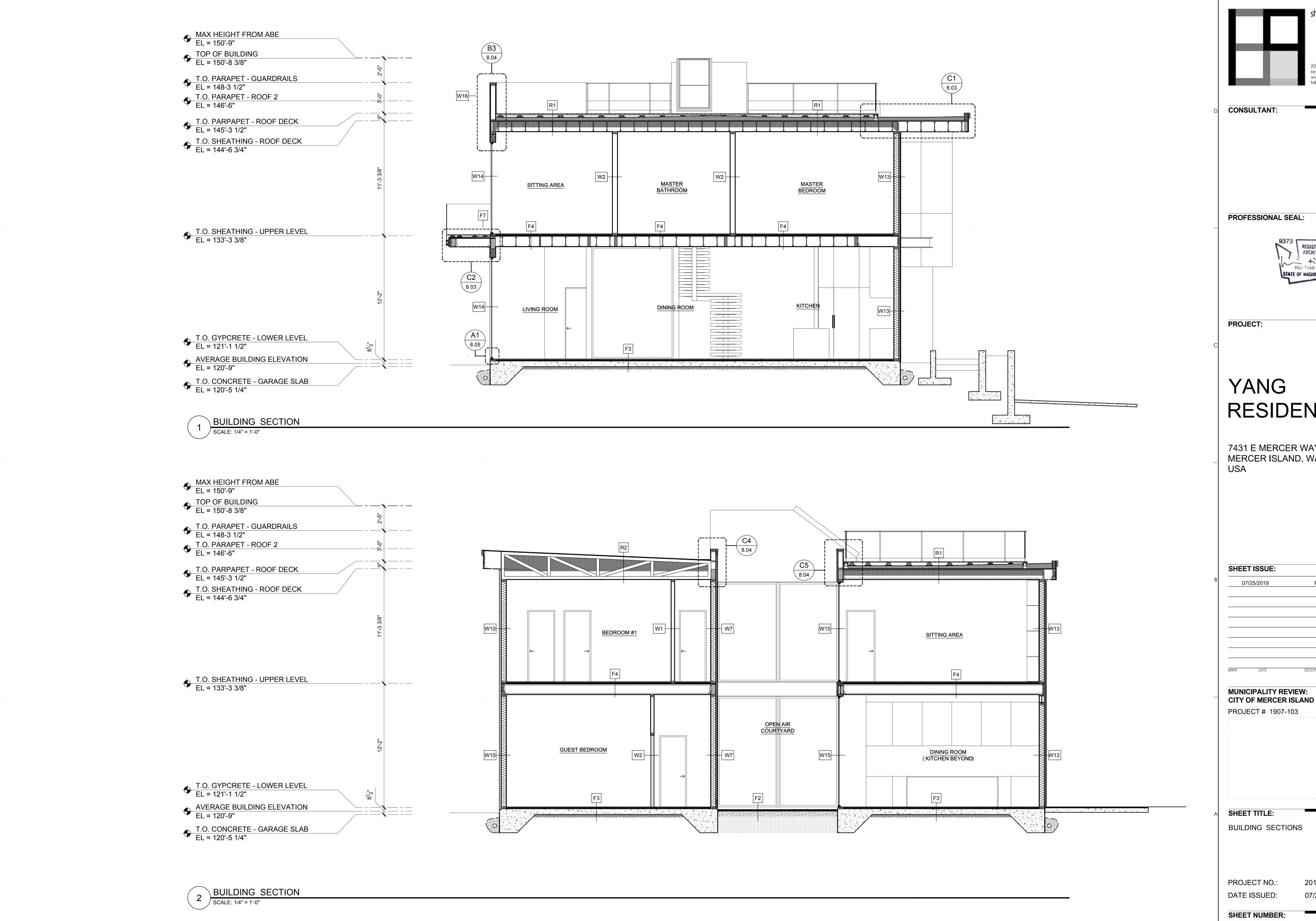
BUILDING SECTIONS

PROJECT NO.: DATE ISSUED:

20190130 07/25/2019

SHEET NUMBER:

A4.01





CONSULTANT:

PROFESSIONAL SEAL:



PROJECT:

YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040

PERMIT SUBMITTAL

MUNICIPALITY REVIEW:

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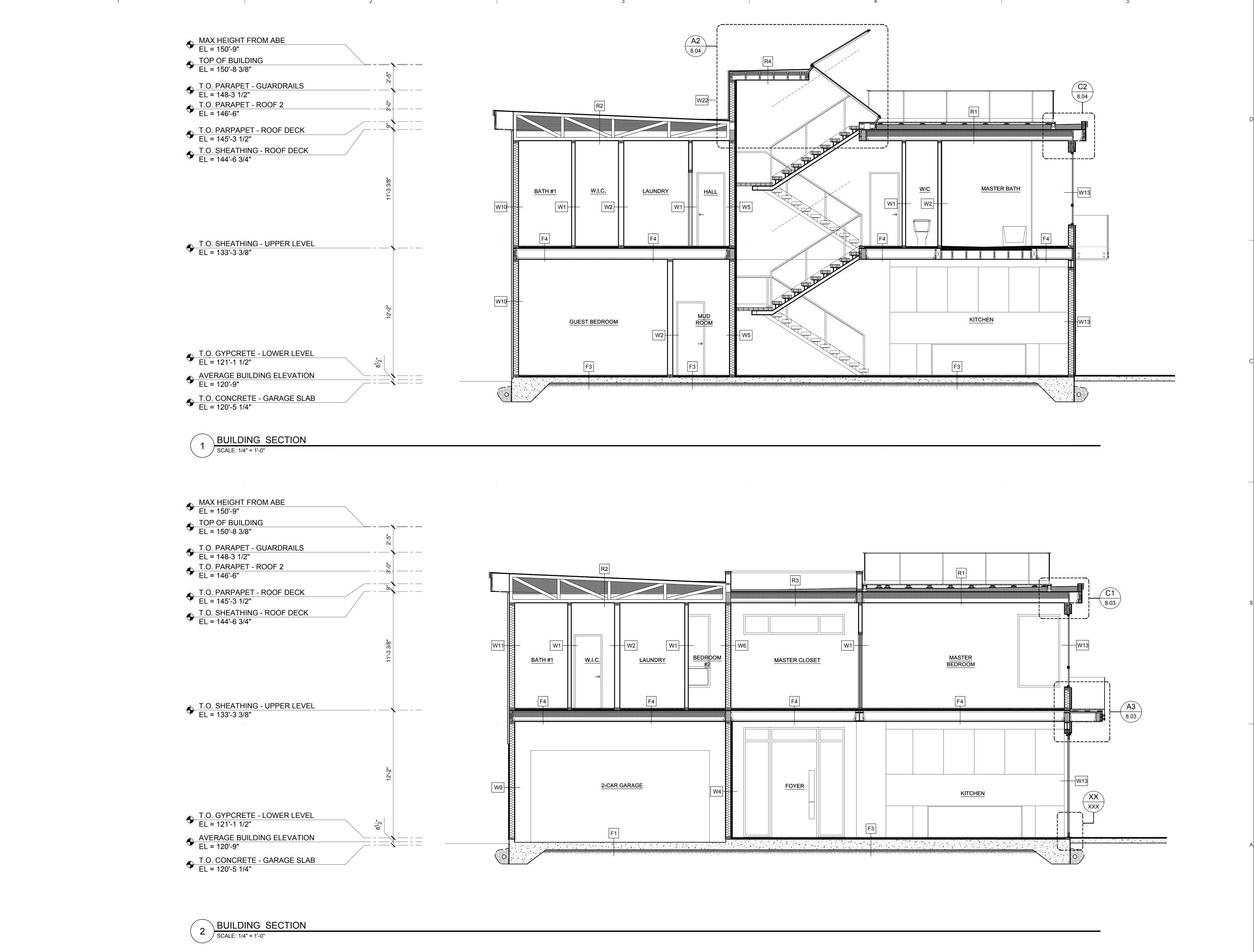
BUILDING SECTIONS

PROJECT NO.: DATE ISSUED:

20190130 07/25/2019

SHEET NUMBER:

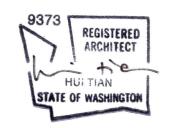
A4.02





CONSULTANT:

PROFESSIONAL SEAL:



PROJECT:

YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040 USA

SHEET ISSUE:	
07/25/2019	PERMIT SUBMITTAL

MUNICIPALITY REVIEW: CITY OF MERCER ISLAND PROJECT # 1907-103

SHEET TITLE:

BUILDING SECTIONS

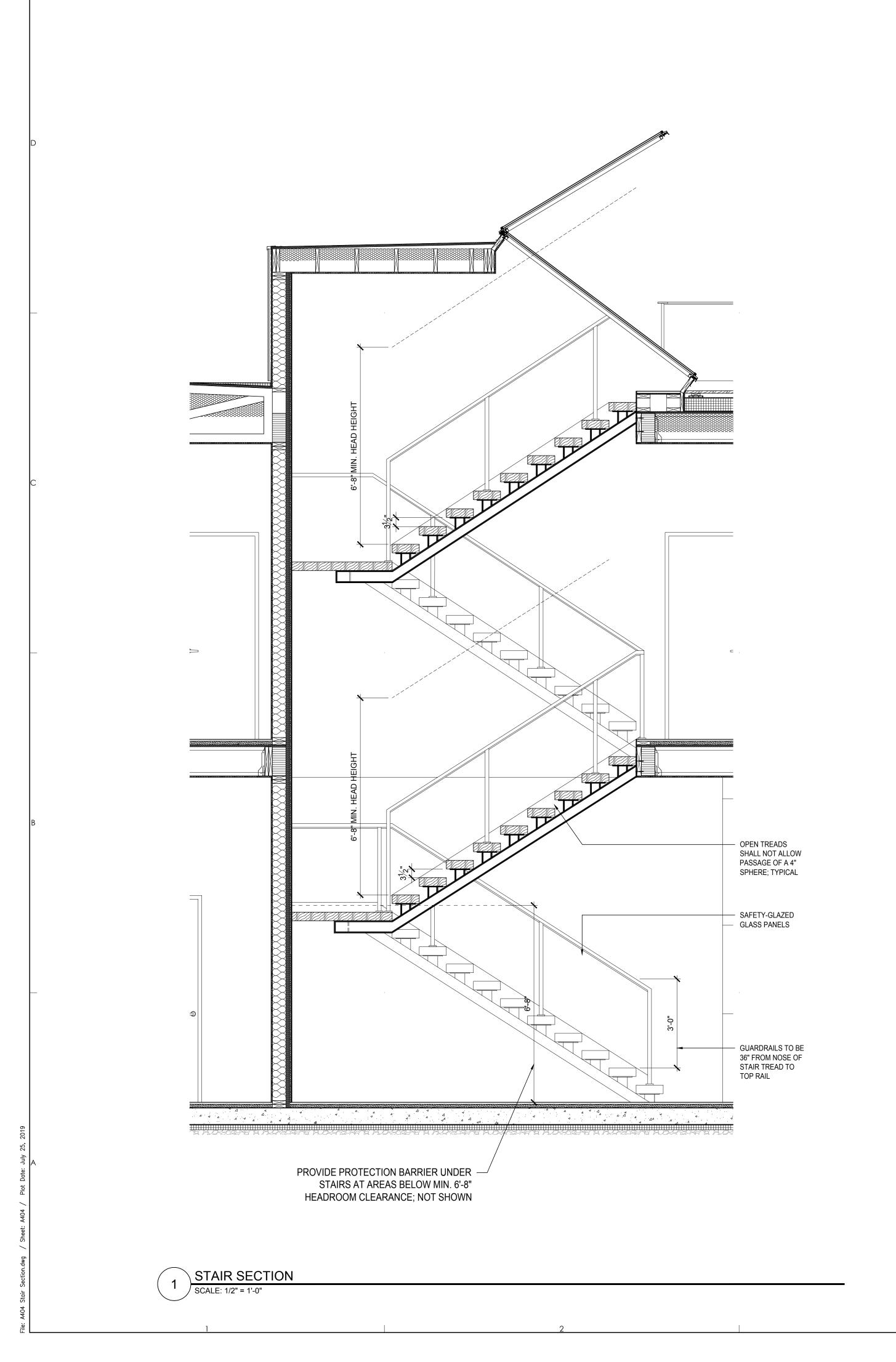
PROJECT NO.: DATE ISSUED:

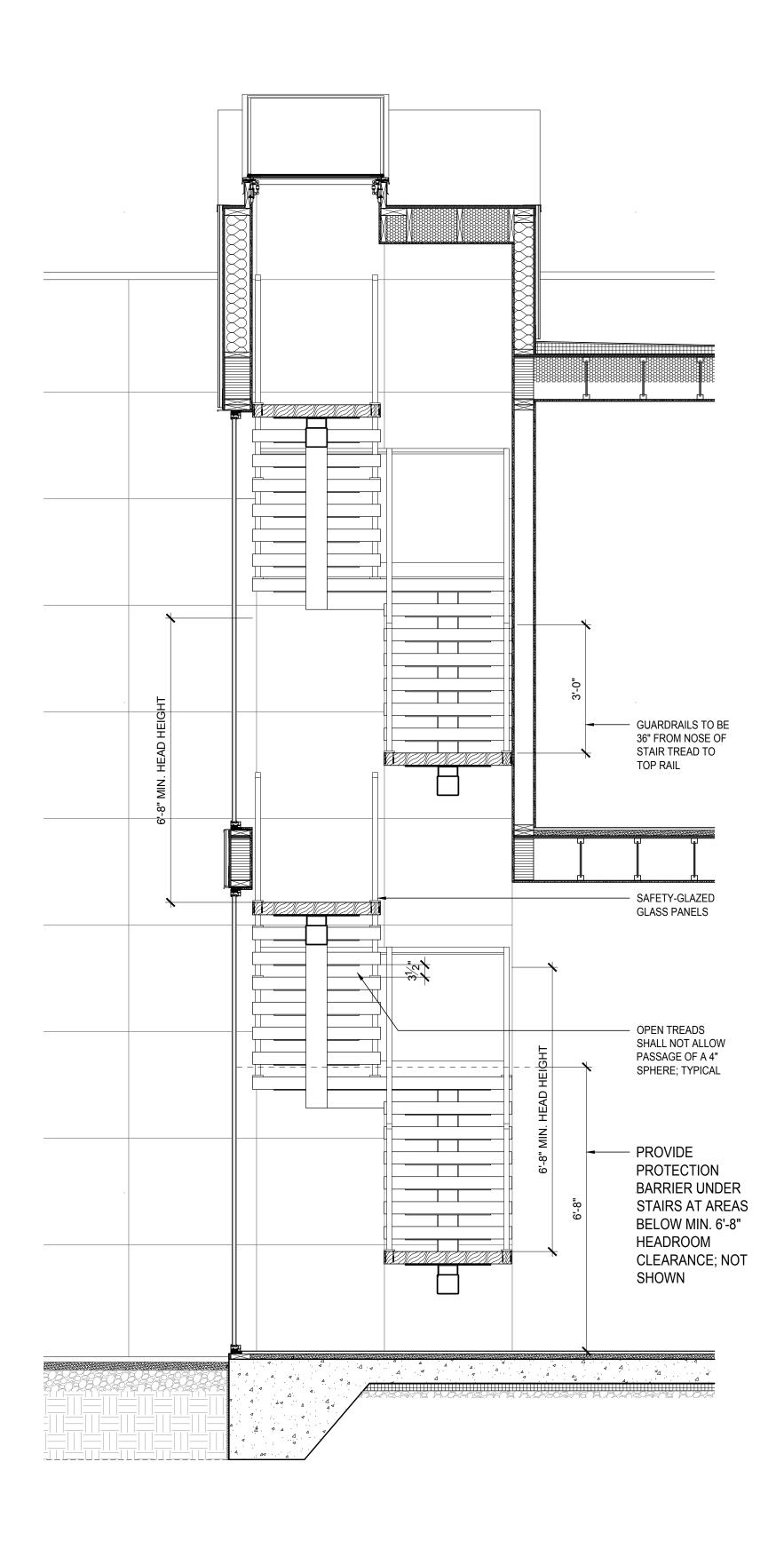
SHEET NUMBER:

A4.03

20190130

07/25/2019





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

studio19 architects

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7431 E MERCER WAY MERCER ISLAND, WA 98040 USA

SHEET ISSUE:	
07/25/2019	PERMIT SUBMITTAL
MARK DATE	DESCRIPTION
WAIL	DESCRIPTION

CITY OF MERCER ISLAND
PROJECT # 1907-103

MUNICIPALITY REVIEW:

A SHEET TITLE:

STAIR SECTIONS

PROJECT NO.: DATE ISSUED:

E ISSUED: 07/25/2019

SHEET NUMBER:

20190130

A4.04

WA	LL, FLOOR AND ROOF ASSEMBLY SCHE	DUL	<u>2</u> <u>=</u>		3		4	5	
WAL	L ASSEMBLIES			FLOO	R ASSEMBLIES	ROOF	OF ASSEMBLIES		
W1	THE TOTAL STATE OF THE TOTAL STA	W13	3-COAT STUCCO SIDING - FINISH COAT PAINTED LIGHT GRAY - 3/8" BROWN COAT - 3/8" SCRATCH COAT PAPER BACKED METAL LATH 1" P.T. LUMBER FURRING STRIPS (2) LAYERS WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C.		CONCRETE SEALER REINFORCED CONCRETE SLAB (PER STRUCTURAL) SLOPED 1/4" PER FOOT TOWARDS DRIVEWAY 10 MIL POLYETHYLENE VAPOR BARRIER 2" R-10 EXTRUDED XPS FOAM INSULATION 12" OF STRUCTURAL FILL (PER GEOTECH) COMPACTED NATIVE DENSE SOIL OR STRUCTURAL FILL	R1	5/4X6 IPE DECKING WITH HIDDEN FASTENERS 5/4X4 IPE JOISTS LAID FLAT @16" O.C. ON PEDESTAL SYSTEM PROTECTION COURSE SINGLE PLY ROOFING MEMBRANE 1/4" DENSDECK COVER BOARD 1/2" MINIMUM CLOSED CELL POLYISO TAPERED INSULATION SELF ADHERED VAPOR BARRIER ROOF SHEATHING (PER STRUCTURAL) ROOF JOISTS (PER STRUCTURAL)		
W3	DWELLING-GARAGE FIRE SEPARATION (IRC 302.6) 1/2" GYPSUM BOARD 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 5/8" IMPACT RESISTANT GYPSUM BOARD	W14	5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER DARK GRAY HORIZONTAL METAL SIDING ALUMINUM RAINSCREEN SYSTEM		PORCELAIN PAVERS 1" SAND SETTING BED 12" MINIMUM BASE COURSE GEOTEXTILE BARRIER FABRIC COMPACTED NATIVE DENSE SOIL OR STRUCTURAL FILL	R2	3" R-19 CLOSED CELL SPRAY FOAM INSULATION 9 1/2" R-30 UNFACED THERMAL BATT INSULATION 5/8" GYPSUM BOARD SINGLE PLY ROOFING MEMBRANE 1/4" DENSDECK COVER BOARD		
W4	5/8" GYPSUM BOARD (2) LAYERS 3/4" PLYWOOD SHEATHING (TO ALIGN TILE FLUSH) 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" PLYWOOD SHEATHING (PER STRUCTURAL) 5/8" IMPACT RESISTANT GYPSUM BOARD	W15	WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER TONGUE AND GROOVE HORIZONTAL STAINED CEDAR SIDING 3/4" P.T. LUMBER FURRING STRIPS		FLOOR FINISH PER INTERIORS 1 1/2" GYPSUM CEMENT UNDERLAYMENT WITH HYDRAULIC HEATING SYSTEM WATERPROOF MEMBRANE REINFORCED CONCRETE SLAB (PER STRUCTURAL) 10 MIL POLYETHYLENE VAPOR BARRIER 2" R-10 EXTRUDED XPS FOAM INSULATION 12" STRUCTURAL FILL COMPACTED NATIVE DENSE SOIL OR STRUCTURAL FILL	R3	1/2" MINIMUM CLOSED CELL POLYISO TAPERED INSULATION (WHERE DRAINAGE SLOPE IS NEEDED) SELF ADHERED VAPOR BARRIER ROOF SHEATHING (PER STRUCTURAL) ROOF TRUSSES (PER STRUCTURAL) 3" R-19 CLOSED CELL SPRAY FOAM INSULATION 9 1/2" R-30 UNFACED THERMAL BATT INSULATION 5/8" GYPSUM BOARD		
W5	PORCELANOSA XLIGHT THIN PORCELAIN TILE WITH HIDDEN FIXING PLATES THIN SET MORTAR 5/8" GLASS MAT WATER RESISTANT GYPSUM BACKER BOARD (2) LAYERS 1/2" PLYWOOD SHEATHING TO FURR WALL 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD (5/8" IMPACT RESISTANT GYP USED ON GARAGE SIDE WHERE INSTANCE OCCURS)	W16	WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. 5 1/2" UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER DARK GRAY HORIZONTAL METAL SIDING		FLOOR FINISH PER INTERIORS 1 1/2" GYPSUM CEMENT UNDERLAYMENT WITH HYDRAULIC HEATING SYSTEM FLOOR SHEATHING (PER STRUCTURAL); GLUED & SCREWED FLOOR JOISTS (PER STRUCTURAL) 5/8" GYPSUM BOARD		1/4" DENSDECK COVER BOARD 1/2" MINIMUM CLOSED CELL POLYISO TAPERED INSULATION) SELF ADHERED VAPOR BARRIER ROOF SHEATHING (PER STRUCTURAL) ROOF FRAMING (PER STRUCTURAL) 3" R-19 CLOSED CELL SPRAY FOAM INSULATION 9 1/2" R-30 UNFACED THERMAL BATT INSULATION 5/8" GYPSUM BOARD		
W6	 1/2" GYPSUM BOARD 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD		ALUMINUM RAINSCREEN SYSTEM WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. PLYWOOD SHEATHING (PER STRUCTURAL) WEATHER RESISTIVE BARRIER ALUMINUM RAINSCREEN SYSTEM DARK GRAY HORIZONTAL METAL SIDING		FLOOR FINISH PER INTERIORS 1 1/2" GYPSUM CEMENT UNDERLAYMENT WITH HYDRAULIC HEATING SYSTEM FLOOR SHEATHING (PER STRUCTURAL); GLUED & SCREWED FLOOR JOISTS (PER STRUCTURAL) 8 1/2" R-30 BATT INSULATION VAPOR BARRIER 5/8" GYPSUM BOARD	R4	SINGLE PLY ROOFING MEMBRANE 1/4" DENSDECK COVER BOARD SELF ADHERED VAPOR BARRIER ROOF SHEATHING (PER STRUCTURAL) ROOF FRAMING (PER STRUCTURAL) 6" R-19 CLOSED CELL SPRAY FOAM INSULATION 5/8" GYPSUM BOARD		
W7	PORCELANOSA XLIGHT THIN PORCELAIN TILE WITH HIDDEN FIXING PLATES ADHESIVE VERTICAL OMEGA PROFILE HORIZONTAL OMEGA PROFILE WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER	W17	60 MIL. PVC SINGLE PLY ROOFING UP WALL WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. PLYWOOD SHEATHING (PER STRUCTURAL) WEATHER RESISTIVE BARRIER HORIZONTAL OMEGA PROFILE VERTICAL OMEGA PROFILE ADHESIVE PORCELANOSA XLIGHT THIN PORCELAIN TILES WITH HIDDEN FIXING PLATES		FLOOR FINISH PER INTERIORS 1 1/2" GYPSUM CEMENT UNDERLAYMENT WITH HYDRAULIC HEATING SYSTEM FLOOR SHEATHING (PER STRUCTURAL); GLUED & SCREWED FLOOR JOISTS (PER STRUCTURAL) 8 1/2" R-30 BATT INSULATION VAPOR BARRIER EXTERIOR TONGUE AND GROOVE CEDAR SOFFIT (SMOOTH FACE EXPOSED)				
W8	CULTURED STONE FOSSIL REEF CORAL STONE VENEER W/ MORTAR JOINT MORTAR SETTING BED SCRATCH COAT GALVANIZED METAL LATH 1/4" P.T. LUMBER FURRING STRIPS (2) LAYERS OF WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER	W18	(OPTIONAL SIDING) 60 MIL. PVC, SINGLE PLY ROOFING UP WALL WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. PLYWOOD SHEATHING (PER STRUCTURAL) WEATHER RESISTIVE BARRIER 3/4" P.T. LUMBER FURRING STRIPS TONGUE AND GROOVE HORIZONTAL STAINED CEDAR SIDING		5/4 X 6 IPE DECKING WITH HIDDEN FASTENERS 5/4 X 4 IPE JOISTS LAID FLAT @ 16" O.C. ON PEDESTAL SYSTEM PROTECTION COURSE SINGLE PLY ROOFING MEMBRANE 1/4" DENSDECK COVER BOARD 1/2" MINIMUM CLOSED CELL POLYISO TAPERED INSULATION SELF ADHERED VAPOR BARRIER FLOOR SHEATHING (PER STRUCTURAL) FLOOR JOISTS (PER STRUCTURAL) 1X6 TONGUE AND GROOVE CEDAR SOFFIT (SMOOTH FACE EXPOSED)				
W9	PORCELANOSA XLIGHT EWOOD NUT NATURE THIN TILE WITH HIDDEN FIXING PLATES THIN SET MORTAR 1/2" CEMENT BOARD WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 5/8" IMPACT RESISTANT GYPSUM BOARD	W19	TONGUE AND GROOVE HORIZONTAL STAINED CEDAR SIDING 1/2" P.T. LUMBER FURRING STRIPS WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. PLYWOOD SHEATHING WEATHER RESISTIVE BARRIER 60 MIL. PVC SINGLE PLY ROOFING RUNNING UP WALL DARK GRAY HORIZONTAL METAL SIDING						
W10	WHITE HARDIE PANELS WITH COLOR MATCHED FASTENERS 1 1/2" P.T. LUMBER FURRING STRIPS DELTA FACADE S - UV RESISTANT WEATHER RESISTIVE BARRIER FOR OPEN JOINT CLADDING PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER	W20	TONGUE AND GROOVE HORIZONTAL STAINED CEDAR SIDING 1/2" P.T. LUMBER FURRING STRIPS WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X8 STUDS @ 16" O.C. 8" R-25 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER	1. PF BA 2. SU BA	DING ASSEMBLIES SCHEDULE NOTES ROVIDE 3 1/2" SOUND ATTENUATION BATT INSULATION AT ALL BEDROOMS, ATHROOMS, LAUNDRY ROOMS, MECHANICAL ROOMS AND AS NOTED. JBSTITUTE MOISTURE RESISTANT GYPSUM BOARD AT KITCHENS, ATHROOMS, LAUNDRY ROOMS, MECHANICAL ROOMS, STORAGE ROOMS NO OTHER MOISTURE PRONE AREAS.				
W11	LIGHT GRAY HARDIE PANELS WITH COLOR MATCHED FASTENERS 1 1/2" P.T. LUMBER FURRING STRIPS DELTA FACADE S - UV RESISTANT WEATHER RESISTIVE BARRIER FOR OPEN JOINT CLADDING PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER	W21	TONGUE AND GROOVE HORIZONTAL STAINED CEDAR SIDING 1/2" P.T. LUMBER FURRING STRIPS WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BALL INSULATION 1/2" GYPSUM BOARD PVA PRIMER	4. SU 5. PF TH 6. CG	ROVIDE COATED GLASS MAT WATER RESISTANT GYPSUM BACKER BOARD I INTERIOR TILE FINISH. JBSTITUTE IMPACT RESISTANT GYPSUM BOARD AT GARAGE. ROVIDE DRAFT STOPS, FIRE BLOCKING AND FIRE STOPS AS REQUIRED BY HE IRC. ONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL-MOUNTED ARDWARE, TOILET ACCESSORIES, TOWEL BARS, LIGHT FIXTURES, ASEWORK, SHELVING AND OTHER LOCATIONS WHERE REQUIRED PER ANUFACTURER'S RECOMMENDATIONS OF INDUSTRY STANDARDS.				
W12	DARK GRAY HARDIE PANELS WITH COLOR MATCHED FASTENERS WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X6 STUDS @ 16" O.C. 5 1/2" R-21 UNFACED THERMAL BATT INSULATION 1/2" GYPSUM BOARD PVA PRIMER	W21	TONGUE AND GROOVE HORIZONTAL STAINED CEDAR SIDING 1/2" P.T. LUMBER FURRING STRIPS WEATHER RESISTIVE BARRIER PLYWOOD SHEATHING (PER STRUCTURAL) 2X8 STUDS @ 16" O.C. 8" R-25 UNFACED THERMAL BALL INSULATION PLYWOOD SHEATHING (PER STRUCTURAL) 1/2" GLASS MAT WATER RESISTANT GYPSUM BACKER BOARD THIN SET MORTAR PORCELANOSA XLIGHT THIN PORCELAIN TILE WITH HIDDEN FIXING PLATES	7. PF W. 9. PE FII AN IN FII	ROVIDE THRU-PENETRATION FIRESTOP SYSTEMS FOR PENETRATIONS IN PALLS OR PARTITIONS ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING. ENETRATIONS BY POWER AND LIGHTING FIXTURES INTO RE-RESISTANCE-RATED ASSEMBLIES REQUIRE LISTED ELECTRICAL BOXES ND SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS CLUDED IN THE LISTING AND INSTALLED SUCH THAT THE REQUIRED RE-RESISTANCE WILL NOT BE REDUCED. DORDINATE BETWEEN THE SCOPE SHOWN BY THE STRUCTURAL DRAWINGS ND THE ARCHITECTURAL ASSEMBLIES AS INDICATED.				



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PROFESSIONAL SEAL:



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YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040 USA

07/25/2019	PERMIT SUBMITTAI
DATE	DESCRIPTION

MUNICIPALITY REVIEW: CITY OF MERCER ISLAND PROJECT # 1907-103

SHEET TITLE:

WALL, FLOOR, & ROOF ASSEMBLIES MATERIAL NOTES

PROJECT NO.: DATE ISSUED:

20190130 07/25/2019

SHEET NUMBER:

A8.01

PENETRATION. EXTEND JAMB FLASHING BEYOND SILL FLASHING (6) WINDOW FLANGE W/ SILICONE SEALANT:

W.R.B. & FLASHING SEQUENCE AT BUILDING PENETRATIONS

CONTRACTOR SHALL CONFIRM COMPATIBILITY OF ALL MATERIALS USED IN PENETRATION FLASHING SEQUENCE. USE SIMILAR METHODS AT EACH BUILDING

AT SILL, ON TOP OF

CORNER SHIELD:

NAIL THROUGH SILL.

FASTEN PRE-FORMED CORNER

JAMB TO FRAMING, CUT TO FIT

SHIELDS IN BEAD OF SEALANT AT

TIGHT TO EXISTING LINER. DO NOT

SILL WRAP: INSTALL SELF-ADHESIVE SILL WRAP

'FORTIFLASH') AT SILL, ON TOP OF BASE FLASHING AND CORNER SHIELDS. INSTALL UP TO LINER.

METAL SILL PAN WITH VERTICAL

VERTICAL BASE FLASHING-JAMB:

APPLY CONTINUOUS BEAD OF SILICONE

SEALANT (ASTM C-920 TYPE "S" GRADE N.S.

OF WINDOW FLANGE. DO NOT NAIL AT

WINDOW HEAD. INSTALL WINDOW IN

OPENING PER MANUFACTURER'S

SPECIFICATIONS.

CLASS 25) ALONG TOP, SIDES AND BOTTOM

INSTALL VERTICAL BASE

FLASHING (FORTIFIBER

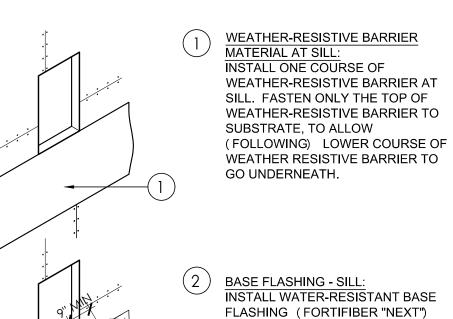
"MOISTOP") OVER SILL

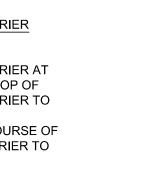
FLASHING.

INTERIOR LIP OVER SILL WRAP

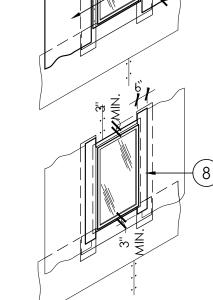
FLASHING (FORTIFIBER

WEATHER-RESISTIVE BARRIER.

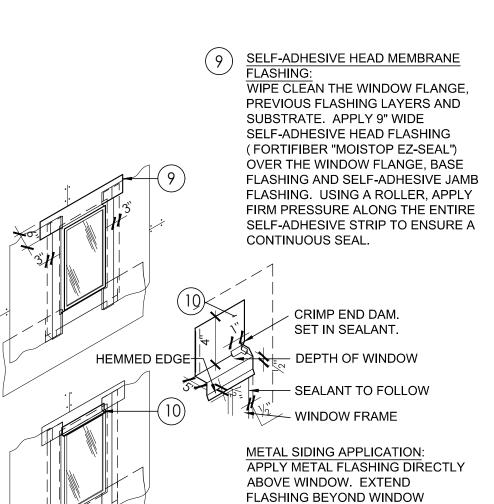




BLEEDER STRIPS AT JAMBS: INSTALL ONE COURSE OF WEATHER-RESISTIVE BARRIER VERTICALLY AT JAMBS. OFFSET EDGE OF WEATHER-RESISTIVE BARRIER 2" FROM ROUGH OPENING.



SELF-ADHESIVE JAMB FLASHING: WIPE CLEAN NAILING FLANGE AND BASE FLASHING. APPLY 6" WIDE SELF-ADHESIVE JAMB FLASHING (FORTIFIBER "MOISTOP FORTIFLASH) OVER NAILING FLANGE. APPLY FIRM PRESSURE WITH A ROLLER ALONG ENTIRE SELF-ADHESIVE STRIP TO ENSURE A CONTINUOUS SEAL.



FRAME %" EACH SIDE, OR THE MINIMUM REQUIRED TO COVER 1/2"

TYPICAL 24 GA. METAL HEAD

(SEE WINDOW HEAD DETAIL)

PROVIDE END DAM AT BOTH ENDS

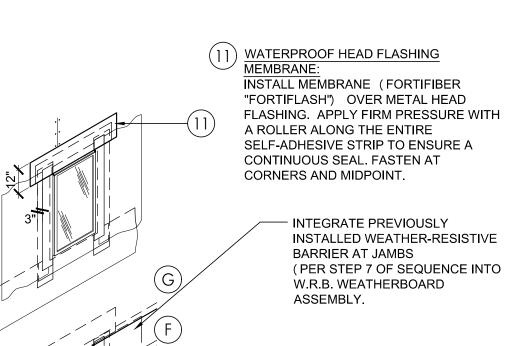
SEALANT JOINT.

OF HEAD FLASHING

FLASHING:

TYPICAL HEAD—

FLASHING PROFILE



WEATHER-RESISTIVE BARRIER: START AT THE BOTTOM OF THE WALL, LAY WEATHER-RESISTIVE BARRIER UP THE WALL, OVERLAPPING ½ ROLL + 4" MIN. HORIZ. AND 6" VERTICAL IN WEATHERBOARD FASHION. MAKE SURE THAT COURSE 'C' AND 'D' ARE PLACED UNDER THE SILL STRIP FLASHING AND JAMB FLASHING. ALIGN VERTICAL EDGE OF W.R.B. WITH SIDES OF HEAD FLASHING (LETTERS REFER

TO ORDER OF INSTALLATION)

MATERIAL NOTES

MATERIALS / SEQUENCING / INSTALLATION:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL APPLICABLE COUNTY, AND LOCAL BUILDING AND FIRE CODES AS REQUIRED.
- 2. ALL WOOD AND SONITUBE FORMS USED FOR CONCRETE IN THE GROUND

OR BETWEEN FOUNDATION SILLS & THE GROUND SHALL BE REMOVED.

- 3. WALL SILL PLATES SHALL BE PRESSURE TREATED WOOD AND MARKED BY AN APPROVED TESTING AGENCY. SILL PLATE TO BE CAULKED OR GASKETED TO FLOOR ASSEMBLY.
- 4. FOUNDATION SILLS AND ALL OTHER WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD AND MARKED BY AN APPROVED TESTING AGENCY OR FOUNDATION GRADE CEDAR OR REDWOOD. PROVIDE POLYETHYLENE FOAM SILL GASKET BETWEEN FOUNDATION SILLS & CONCRETE.
- 5. PROVIDE 90# FELT BETWEEN POSTS & CONCRETE.
- 6. FLASHING AND COUNTER FLASHING TO BE MIN. 24 GAUGE OF CORROSION-RESISTANT METAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL BUILDING CODES AND MANUFACTURES RECOMMENDATIONS.
- 7. ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED OR CEDAR.
- 8. ALL STRUCTURAL PANEL COMPONENTS OF THE RESIDENCE SHALL COMPLY WITH APPROPRIATE STANDARDS FOR THE EMISSION OF FORMALDEHYDE. THE BACK-DRAFTING OF COMBUSTION BY-PRODUCTS FROM COMBUSTION APPLIANCES SHALL BE MINIMIZED THROUGH THE USE OF DAMPERS, VENTS, OUTSIDE COMBUSTION AIR SOURCES, OR OTHER APPROPRIATE TECHNOLOGIES (RCW 19.27.19,1E)
- 9. MOISTURE LEVELS OF ROOF STRUCTURE IN UNVENTED ASSEMBLIES TO BE CONTROLLED TO ENSURE A MOISTURE CONTENT LESS THAN 18% AT TIME OF COVERING.
- 10. WATER PENETRATION OF ROOF IN UNVENTED ASSEMBLIES TO BE TESTED WITH A WATER-SPRAY TEST.



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7431 E MERCER WAY MERCER ISLAND. WA 98040

SHEET ISSUE:

07/25/2019

	EATHER RESISTIVE MEMBRANE EXTERIOR FINISH MATERIAL
	BEGIN NEW W.R.B. COURSES AT CORNER
20	EXISTING OR NEW SHEATHING, AS REQUIRED 1 INNER LAYER 4" MIN. LAP AT HORIZONTAL JOINT 12" MIN. LAP AT VERTICAL JOINT
TY	OUTER LAYER PICAL 12" SELF-ADHESIVE MEMBRANE ASHING AT INSIDE AND OUTSIDE CORNERS

MARK	DATE	DESCRIPTION	
	CIPALITY RE		
PROJ	ECT# 1907-	-103	

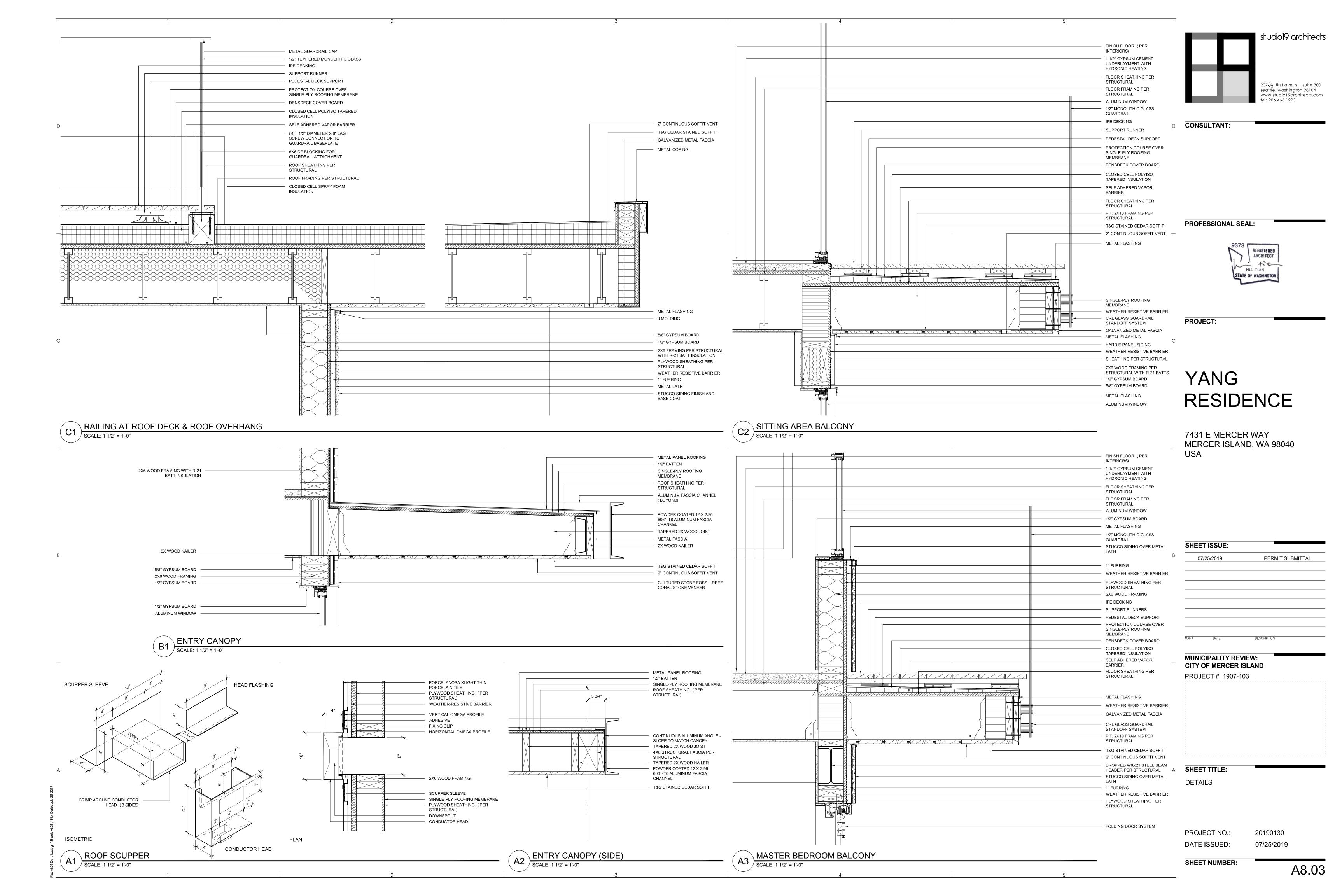
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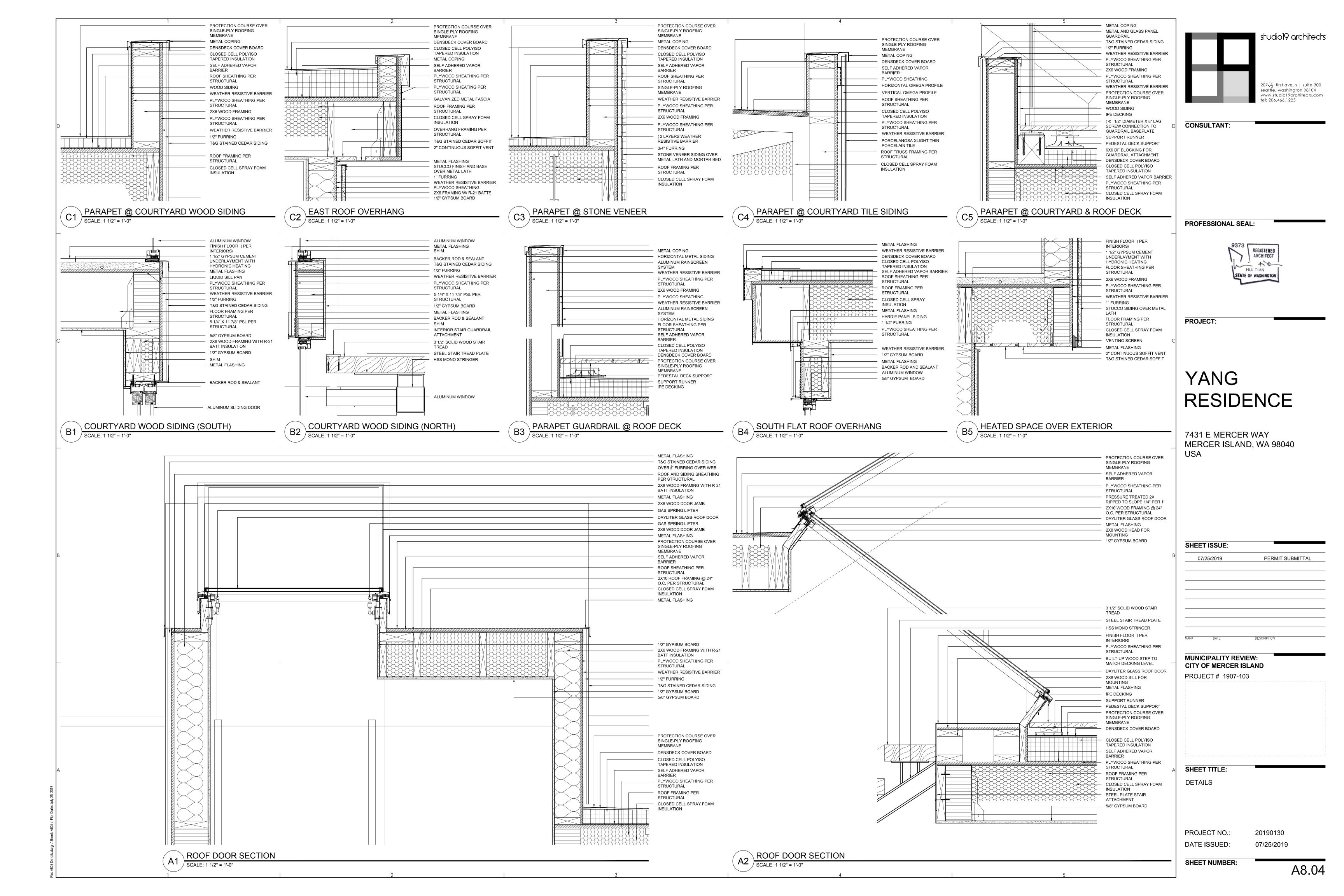
SHEET TITLE: WRB DETAILS

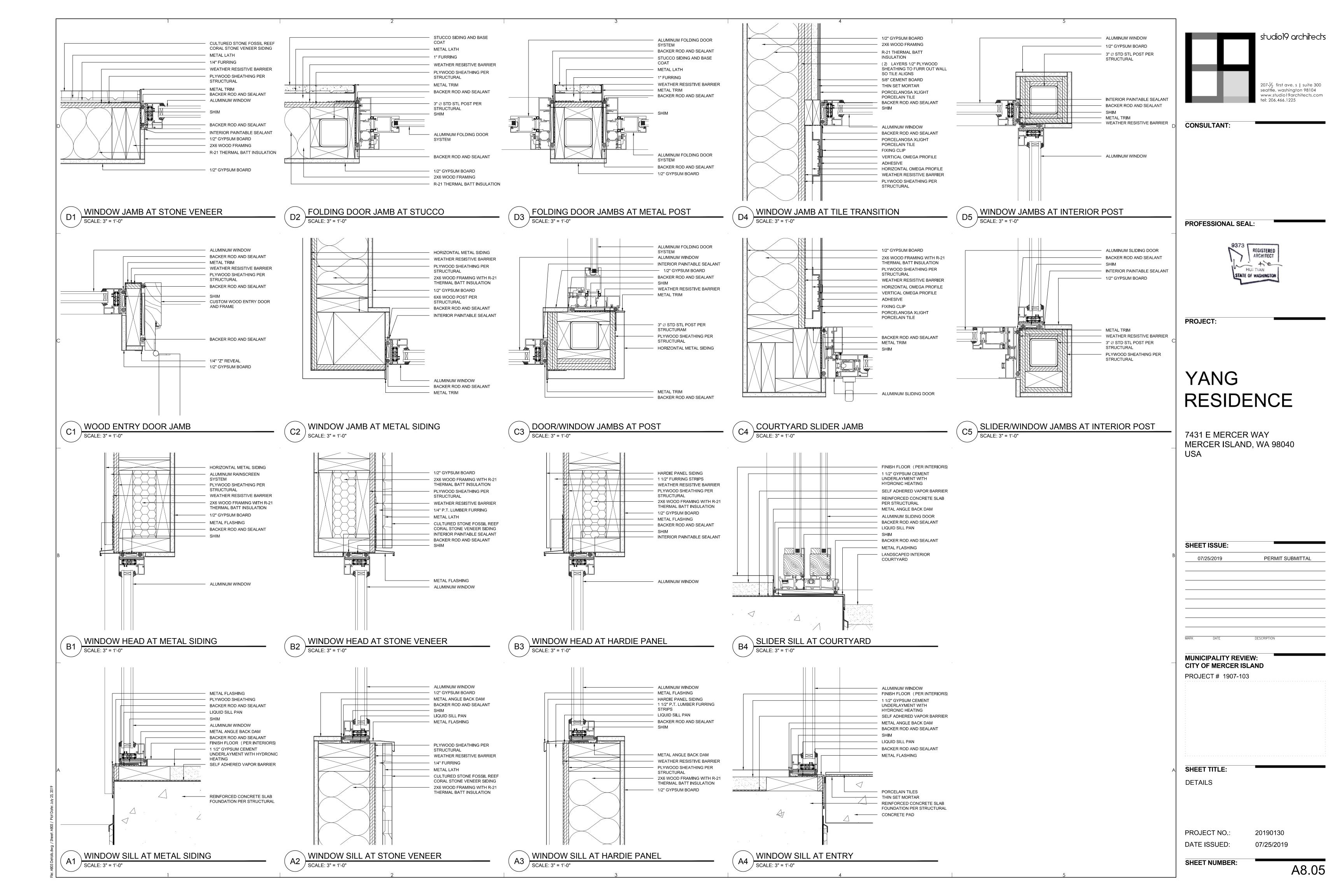
PROJECT NO.: 20190130 DATE ISSUED: 07/25/2019

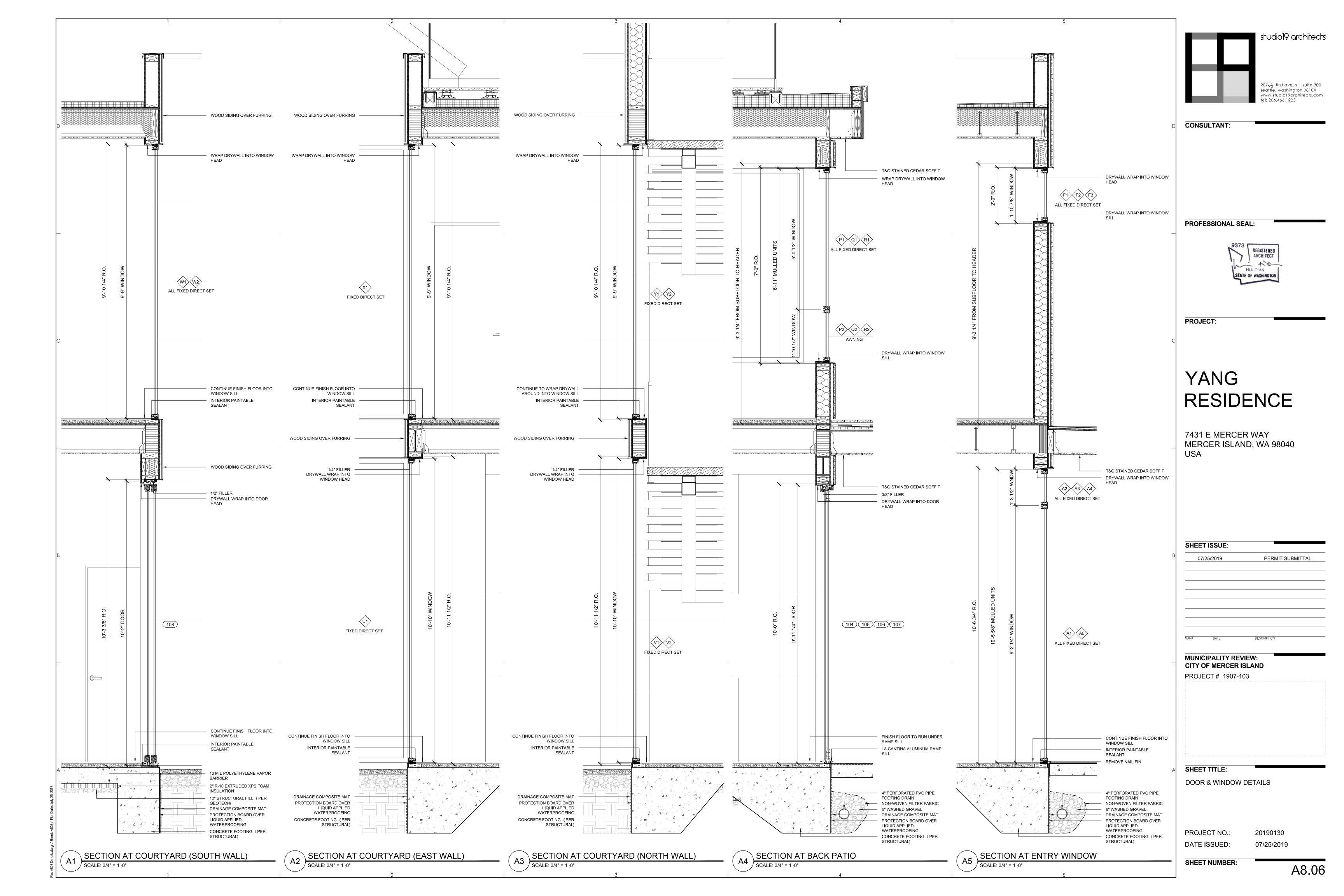
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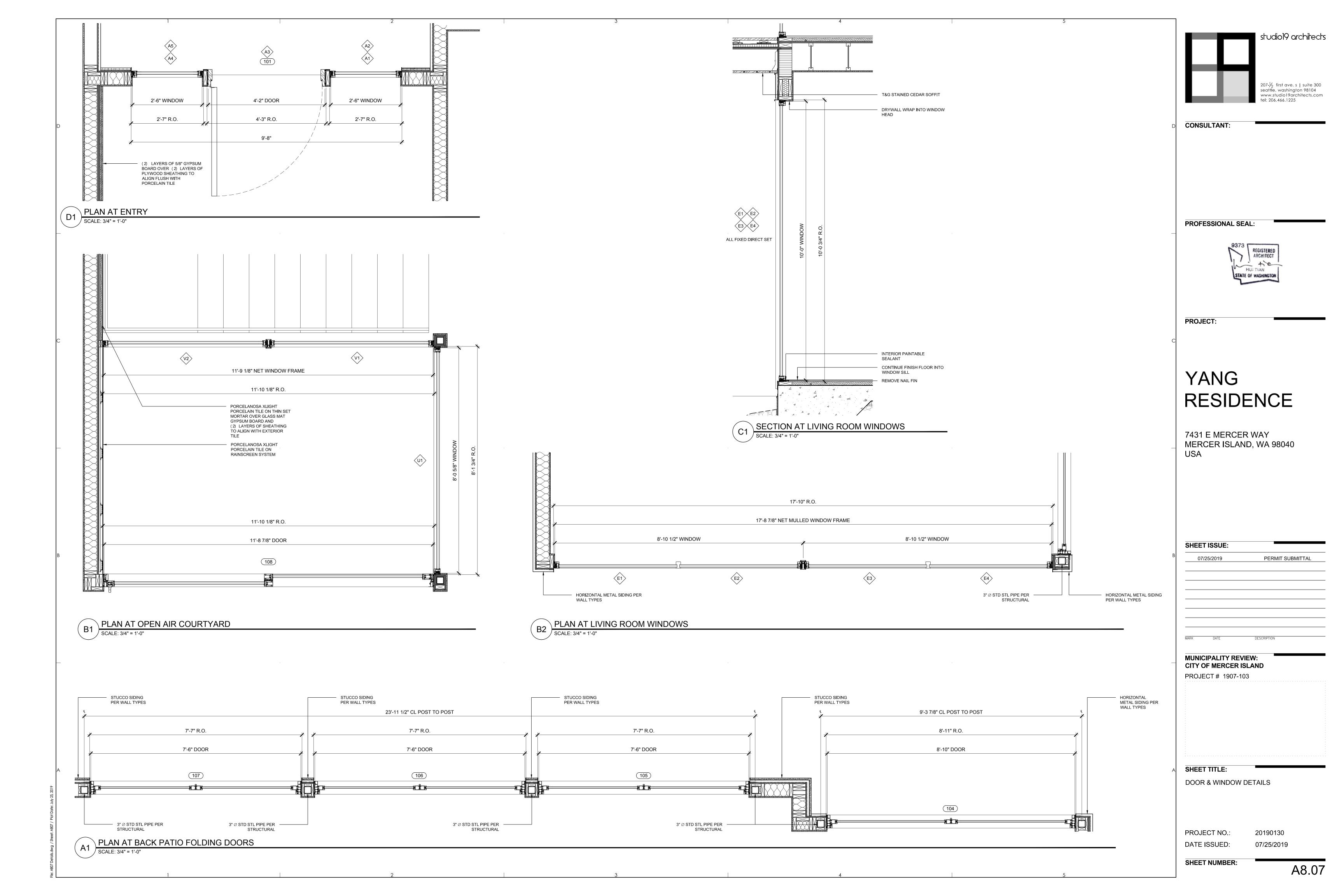
A8.02











MARK DIMENSION U		OPENING SCHEDULE - EXTERIOR DOOR												
W	MADIC	DIME	NSION	U	CHCC	CTC DATING	TVDF	LIADDVAADE	FRA	ME		DETAILS		DEMARKS
102 17-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-0" 9-00	IVIARK	W	Н	VALUE	SHGC	SIC RATING	TYPE	HARDWARE	TYPE	FINISH	HEAD	JAMB	SILL	REIVIARKS
103	101	4'-2"	9'-1"				SINGLE SWING		ALUM	ANOD	-	-	-	
104 8-10" 9-11 1/4" 0.31 0.24 FOLDING GLASS DOOR ALUM ANOD - - GLASS PANEL	102	17'-0"	9'-0"				GARAGE DOOR		ALUM	ANOD	-	-	-	WOOD FINISH
105	103	2'-8"	7-0"				SINGLE SWING		ALUM	ANOD	-	-	-	20 MIN FIRE RATED
106 7'-6' 9'-111/4' 0.31 0.24 FOLDING GLASS DOOR ALUM ANOD GLASS PANEL	104	8'-10"	9'-11 1/4"	0.31	0.24		FOLDING GLASS DOOR		ALUM	ANOD	-	-	-	GLASS PANEL
107	105	7'-6"	9'-11 1/4"	0.31	0.24		FOLDING GLASS DOOR		ALUM	ANOD	-	-	-	GLASS PANEL
108	106	7'-6"	9'-11 1/4"	0.31	0.24		FOLDING GLASS DOOR		ALUM	ANOD	-	-	-	GLASS PANEL
203 2-9" 7'-2 1/2" 0.31 0.24 SINGLE SWING ALUM ANOD - - - GLASS PANEL	107	7'-6"	9'-11 1/4"	0.31	0.24		FOLDING GLASS DOOR		ALUM	ANOD	-	-	-	GLASS PANEL
205 8-9" 9-3 1/2" 0.31 0.24 GLASS SLIDING DOOR ALUM ANOD - - - GLASS PANEL	108	11'-8 7/8"	10-2"	0.31	0.24		GLASS SLIDING DOOR		ALUM	ANOD	-	-	-	GLASS PANEL
206 8-11" 9'-3 1/2" 0.31 0.24 GLAS SLIDING DOOR ALUM ANOD - - - - GLASS PAREL	203	2-9"	7'-2 1/2"	0.31	0.24		SINGLE SWING		ALUM	ANOD	-	-	-	
3301 3'-3" 7'-111/2" 0.5 SKYLIGHT ROOF DOOR ALUM ANOD DAYLITER MANUF.	205	8'-9"	9'-3 1/2"	0.31	0.24		GLASS SLIDING DOOR		ALUM	ANOD	-	-	-	GLASS PANEL
NARK DIMENSION W H CONFIG. FIRE RATING STC RATING TYPE HARDWARE TYPE FINISH HEAD JAMB SILL	206	8'-11"	9'-3 1/2"	0.31	0.24		GLASS SLIDING DOOR		ALUM	ANOD	-	-	-	GLASS PANEL
DIMENSION W	301	3'-3"	7'-11 1/2"	0.5			SKYLIGHT ROOF DOOR		ALUM	ANOD	-	-	-	DAYLITER MANUF.
DIMENSION W H CONFIG. FIRE RATING STC RATING TYPE HARDWARE FRAME TYPE FINISH HEAD JAMB SILL														
MARK W							OPENING SCHEDUL	E - INTERIOR DOOR						
109 2'-8" 7'-0" A SINGLE SWING	MARK			CONFIG.	FIRE RATING	STC RATING	TYPE HARDWARE					1		REMARKS
110 2'-8" 7'-0" B	100						SULO 5 SUUM		TYPE	FINISH				
111 2'-6" 7'-0" A SINGLE SWING -							SINGLE SWING				-	-	_	-
112 2'-8" 7'-0" A SINGLE SWING -				В										
113 2'-8" 7'-0" A SINGLE SWING SELF-CLOSING		2'-6"					POCKET				-	-	-	-
114 2'-8" 7'-0" A 20 SINGLE SWING -	112			Α			POCKET SINGLE SWING				-			-
201 2'-10" 7'-0" A SINGLE SWING -			7'-0"	Α			POCKET SINGLE SWING SINGLE SWING					-	-	
202 4'-2" 7'-0" B POCKET -		2'-8"	7'-0" 7'-0"	A A			POCKET SINGLE SWING SINGLE SWING SINGLE SWING				- - -	-	-	
204 2'-6" 7'-0" A SINGLE SWING -		2'-8"	7'-0" 7'-0"	A A A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING	SELF-CLOSING			- - - -	-	-	
207 2'-8" 7'-0" A SINGLE SWING -	114	2'-8" 2'-8" 2'-10"	7'-0" 7'-0" 7'-0"	A A A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING	SELF-CLOSING			- - - -	- - -	- - -	
208 2'-8" 7'-0" A SINGLE SWING -	114 201	2'-8" 2'-8" 2'-10"	7'-0" 7'-0" 7'-0" 7'-0"	A A A A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING	SELF-CLOSING			- - - - -	- - -	- - - -	- - - -
209 2'-8" 7'-0" A SINGLE SWING -	114 201 202	2'-8" 2'-8" 2'-10" 4'-2"	7'-0" 7'-0" 7'-0" 7'-0"	A A A A B	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING POCKET	SELF-CLOSING			- - - - -	- - - - -	- - - -	- - - -
210 2¹-8" 7¹-0" A SINGLE SWING - <td>114 201 202 204</td> <td>2'-8" 2'-8" 2'-10" 4'-2" 2'-6"</td> <td>7'-0" 7'-0" 7'-0" 7'-0" 7'-0"</td> <td>A A A A B A</td> <td>20</td> <td></td> <td>POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING POCKET SINGLE SWING</td> <td>SELF-CLOSING</td> <td></td> <td></td> <td>- - - - -</td> <td>- - - - -</td> <td>- - - - -</td> <td>- - - -</td>	114 201 202 204	2'-8" 2'-8" 2'-10" 4'-2" 2'-6"	7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	A A A A B A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING POCKET SINGLE SWING	SELF-CLOSING			- - - - -	- - - - -	- - - - -	- - - -
211 2'-8" 7'-0" A SINGLE SWING -	114 201 202 204 207	2'-8" 2'-8" 2'-10" 4'-2" 2'-6" 2'-8"	7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	A A A A B A A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING POCKET SINGLE SWING SINGLE SWING	SELF-CLOSING			- - - - -	- - - - - -	- - - - - -	- - - - - -
212 2'-8" 7'-0" A SINGLE SWING	114 201 202 204 207 208	2'-8" 2'-8" 2'-10" 4'-2" 2'-6" 2'-8"	7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	A A A B A A A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING POCKET SINGLE SWING SINGLE SWING SINGLE SWING	SELF-CLOSING			- - - - - -	- - - - - -	- - - - - -	- - - - - - -
	114 201 202 204 207 208 209	2'-8" 2'-8" 2'-10" 4'-2" 2'-6" 2'-8" 2'-8"	7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	A A A A B A A A A A A A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING	SELF-CLOSING			- - - - - -	- - - - - - - -	- - - - - - - -	- - - - - - -
213 2'-8" 7'-0" A SINGLE SWING	114 201 202 204 207 208 209 210	2'-8" 2'-8" 2'-10" 4'-2" 2'-6" 2'-8" 2'-8" 2'-8"	7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	A A A A A A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING	SELF-CLOSING			- - - - - - -	- - - - - - -	- - - - - - - -	
	114 201 202 204 207 208 209 210 211	2'-8" 2'-10" 4'-2" 2'-6" 2'-8" 2'-8" 2'-8" 2'-8" 2'-8"	7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0"	A A A A A A A A A A A A A A A A	20		POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING POCKET SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING SINGLE SWING	SELF-CLOSING			- - - - - - -	- - - - - - - - - -	- - - - - - - - -	

	OPENING SCHEDULE - MAIN LEVEL - WINDOWS															
MARK	DIMEN		AREA	U	SHGC	MANUF.	NFRC - CPD	HEAD HEIGHT	UNIT TYPE	FRAME	FINISH		DETAILS		TEMPERED	REMARKS
	W 21.7"	H	10.24	VALUE	0.10			ABOVE SUBFLOOR	DICTUDE	TYPE		HEAD	JAMB	SILL	VEC	
A1	2'-7"	9'-3"	19.24	0.28	0.19	-		9'-4 1/2"	PICTURE	ALUM	-	-	-	-	YES	-
A2	2'-7" 4'-9"	1'-3"	2.25	0.28	0.19	-		10'-7 1/2" 10'-7 1/2"	PICTURE	ALUM	-	-	-	-	NO	-
A3	2'-7"	1'-3"	2.25	0.28	0.19	-		10-7 1/2"	PICTURE PICTURE	ALUM	-	-	-	-	NO NO	-
A4 A5	2'-7"	9'-3"	19.24	0.28	0.19	-		9'-4 1/2"	PICTURE	ALUM	-	_	_	-	YES	-
B1	2'-7"	6'-0"	12.14	0.28	0.19	-		9'-0"	CASEMENT	ALUM	-	_	_	_	NO	EGRESS
B2	2'-7"	6'-0"	12.79	0.28	0.19	-		9'-0"	PICTURE	ALUM	_	_	-	_	NO	-
C1	2'-7"	2'-0"	3.4	0.28	0.19	-		10'-1 1/2"	AWNING	ALUM	-	_	-	-	NO	-
D1	3'-1"	3'-1"	7.11	0.28	0.19	-		10'-1 1/2"	PICTURE	ALUM	-	-	-	-	NO	
D2	3'-1"	3'-1"	7.11	0.28	0.19	-		10'-1 1/2"	PICTURE	ALUM	-	-	-	-	NO	-
D3	3'-1"	3'-1"	7.11	0.28	0.19	-		10'-1 1/2"	PICTURE	ALUM	-	-	-	-	NO	-
E1	4'-5 1/2"	10'-3/4"	39.93	0.28	0.19	-		10'-1 1/2"	PICTURE	ALUM	-	-	-	-	YES	-
E2	4'-5 1/2"	10'-3/4"	39.93	0.28	0.19	-		10'-1 1/2"	PICTURE	ALUM	-	-	-	-	YES	-
E3	4'-5 1/2"	10'-3/4"	39.93	0.28	0.19	-		10'-1 1/2"	PICTURE	ALUM	-	-	-	-	YES	-
E4	4'-5 1/2"	10'-3/4"	39.93	0.28	0.19	-		10'-1 1/2"	PICTURE	ALUM	-	-	-	-	YES	-
	8'-1 3/4"	10'-11	81.15	0.28	0.19	-		11'-1/2"	PICTURE	ALUM	-	_	_	_	YES	INTERIOR
U1		1/2"	01.13	0.20	0.13			11 1/2	TICIONE	7120111					120	
V1	5'-11"	10'-11 1/2"	59.17	0.28	0.19	-		11'-1/2"	PICTURE	ALUM	-	-	-	-	YES	INTERIOR
V 1	=1!!	10'-11														
V2	5'-11"	1/2"	59.17	0.28	0.19	-		11'-1/2"	PICTURE	ALUM	-	-	-	-	YES	INTERIOR
Level 1		area	456.55	sq ft												
						I	OPENIN	G SCHEDULE - UPPER LEVE	- WINDOWS							
MARK	DIMEN		AREA	U	SHGC	MANUF.	NFRC - CPD	HEAD HEIGHT	UNIT	FRAME	FINISH		DETAILS		TEMPERED	REMARKS
	W	Н		VALUE				ABOVE SUBFLOOR				HEAD	JAMB	SILL		
F1	2'-7 1/2"	2'-0"	3.69	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
F2	4'-5"	2'-0"	6.72	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
F3	2'-7 1/2"	2'-0"	3.69	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
G1	3'-1"	5'-2"	12.78	0.28	0.19	-		9'-4"	CASEMENT	ALUM	-	-	-	-	NO	EGRESS
G2	3'-1"	1'-10"	4.3	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
H1	3'-1" 2'-7"	7'-0" 2'-0"	17.56 3.43	0.28	0.19	-		9'-4" 9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
J1	2'-7"	2'-0"	3.43	0.28	0.19	-		9'-4"	AWNING AWNING	ALUM	-	-	-	-	NO NO	-
J2	2'-7"	6'-4"	12.88	0.28	0.19	-		9'-4"	CASEMENT	ALUM	-	-	-	-	NO	- EGRESS
K1 K2	2'-7"	6'-4"	12.88	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	_	_	-	NO	- -
L1	3'-1"	6'-4"	15.78	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	_	_	_	NO	
M1	3'-1"	3'-1"	7.11	0.28	0.19	-		9'-4"	PICTURE	ALUM	_	_	_	_	NO	-
M2	3'-1"	3'-1"	7.11	0.28	0.19	-		9'-4"	PICTURE	ALUM	_	_	_	_	NO	
M3	3'-1"	3'-1"	7.11	0.28	0.19	-		9'-4"	PICTURE	ALUM	_	_	_	_	NO	-
N1	4'-4 1/2"	9'-2 1/2"	18.25	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	_	_	_	YES	-
N2	4'-4 1/2"	9'-2 1/2"	18.25	0.28	0.19	-		9'-4"	PICTURE	ALUM	_	_	-	-	YES	-
P1	4'-1"	5'-2"	17.57	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
P2	4'-1"	1'-10"	5.52	0.28	0.19	_		9'-4"	AWNING	ALUM	_	_	-	-	NO	_
Q1	4'-1"	5'-2"	17.57	0.28	0.19	-	1	9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
Q2	4'-1"	1'-10"	5.52	0.28	0.19	-		9'-4"	AWNING	ALUM	-	-	-	-	NO	-
R1	4'-1"	5'-2"	17.57	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
R2	4'-1"	1'-10"	5.52	0.28	0.19	-		9'-4"	AWNING	ALUM	-	-	-	-	NO	-
S1	4'-1"	7'-0"	24.15	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
T1	4'-1"	7'-0"	24.15	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
W1	5'-11"	9-10 1/4"	53.12	0.28	0.19	-		9'-11 1/2"	PICTURE	ALUM	-	-	-	-	YES	INTERIOR
W2	5'-11"	9-10 1/4"	53.12	0.28	0.19	-		9'-11 1/2"	PICTURE	ALUM	-	-	-	-	YES	INTERIOR
X1	8'-2"	9-10 1/4"	72.86	0.28	0.19	-		9'-11 1/2"	PICTURE	ALUM	-	-	-	-	YES	INTERIOR
Y1	5'-11"	9-10 1/4"	53.12	0.28	0.19	-		9'-11 1/2"	PICTURE	ALUM	-	-	-	-	YES	INTERIOR
Y2	5'-11"	9-10 1/4"	53.12	0.28	0.19	-		9'-11 1/2"	PICTURE	ALUM	-	-	-	-	YES	INTERIOR
Z1	2'-9"	2'-0"	4	0.28	0.19	-		9'-4"	PICTURE	ALUM	-	-	-	-	NO	-
				<u> </u>												
Level 2		area	451.64	sq ft												
TOTAL AREA																
MAIN			456.55													
LEVEL																
LEVEL UPPER			451 64					!		1						
UPPER LEVEL			451.64													
LEVEL UPPER				sq ft												

GENERAL DOOR NOTES

- 1. ALL DOOR DIMENSIONS ARE NOMINAL UNLESS NOTED OTHERWISE.
- 2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION.
- 3. ALL EXTERIOR DOORS WITH GLASS PANELS ARE TO BE TEMPERED SAFETY GLAZING. PROVIDE SAFETY GLAZING WHERE REQUIRED PER APPLICABLE CODE REQUIREMENTS.
- 4. DOORS AND CASED OPENINGS LOCATED NEAR WALL INTERSECTIONS SHALL BE LOCATED SO THAT THE EDGE OF FINISHED OPENING IS 3" FROM FACE OF NEARBY WALL, UNLESS NOTED OTHERWISE.
- 5. SEE SHEETS A-301 AND A-302, EXTERIOR ELEVATIONS FOR OPENING DIRECTION OF OPERABLE UNITS.
- 6. CAULK AND SEAL ALL WINDOW AND DOOR OPENINGS AND EXTERIOR PENETRATIONS.
- 7. MINIMUM 1/2" THROW ON DEAD BOLT OR DEAD LATCH FOR DOORS.
- 8. MINIMUM 1 3/8" SOLID CORE OR 20 MINUTE DOOR REQUIRED BETWEEN GARAGE AND DWELLING.

GENERAL WINDOW NOTES

- 1. WINDOW DIMENSIONS ARE TO THE ROUGH OPENING. CONTRACTOR/MANUFACTURER SHALL PLAN FOR FRAME DIMENSIONS ACCORDINGLY.
- 2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION.
- 3. ALL GLAZING IN OR WITHIN 24" OF A DOOR, OR WITHIN 18" OF FLOOR, OR WITHIN 60" OF TUB FLOOR, GLAZING ADJACENT TO STAIRS AND STAIR LANDINGS, OR ANY OTHER HAZARDOUS AREA IS TO BE TEMPERED SAFETY GLAZING. PROVIDE SAFETY GLAZING WHERE REQUIRED PER APPLICABLE CODE REQUIREMENTS.
- 4. ALL WINDOW TYPE ELEVATIONS ARE VIEWED FROM THE EXTERIOR.

WINDOW SCHEDULE

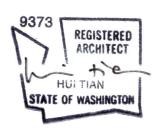
- 5. ALL WINDOWS TO BE DOUBLE GLAZED WITH A MINIMUM U-VALUE OF 0.30 OR BETTER.
- 6. SEE SHEETS A-301 AND A-302, EXTERIOR ELEVATIONS FOR OPENING DIRECTION OF OPERABLE
- 7. EACH BEDROOM WINDOW MUST BE 5.7 SF MINIMUM NET CLEAR AREA (GRADE FLOOR OPENINGS CAN BE MINIMUM NET CLEAR OPEN AREA OF 5 SF), WITH 20" MINIMUM CLEAR OPEN WIDTH, 24" CLEAR OPEN HEIGHT, 44" MAXIMUM SILL HEIGHT.
- 8. CAULK AND SEAL ALL WINDOW AND DOOR OPENINGS AND EXTERIOR PENETRATIONS.
- 9. WINDOWS WITHIN 10' OF GRADE (OR ACCESSIBLE DECK) CAPABLE OF BEING LOCKED.



 $207-\frac{1}{2}$ first ave. s | suite 300

CONSULTANT:

PROFESSIONAL SEAL:



PROJECT:

YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040

SHEET ISSUE:	
07/25/2019	PERMIT SUBMITTAL

MUNICIPALITY REVIEW: **CITY OF MERCER ISLAND**

PROJECT # 1907-103

SHEET TITLE:

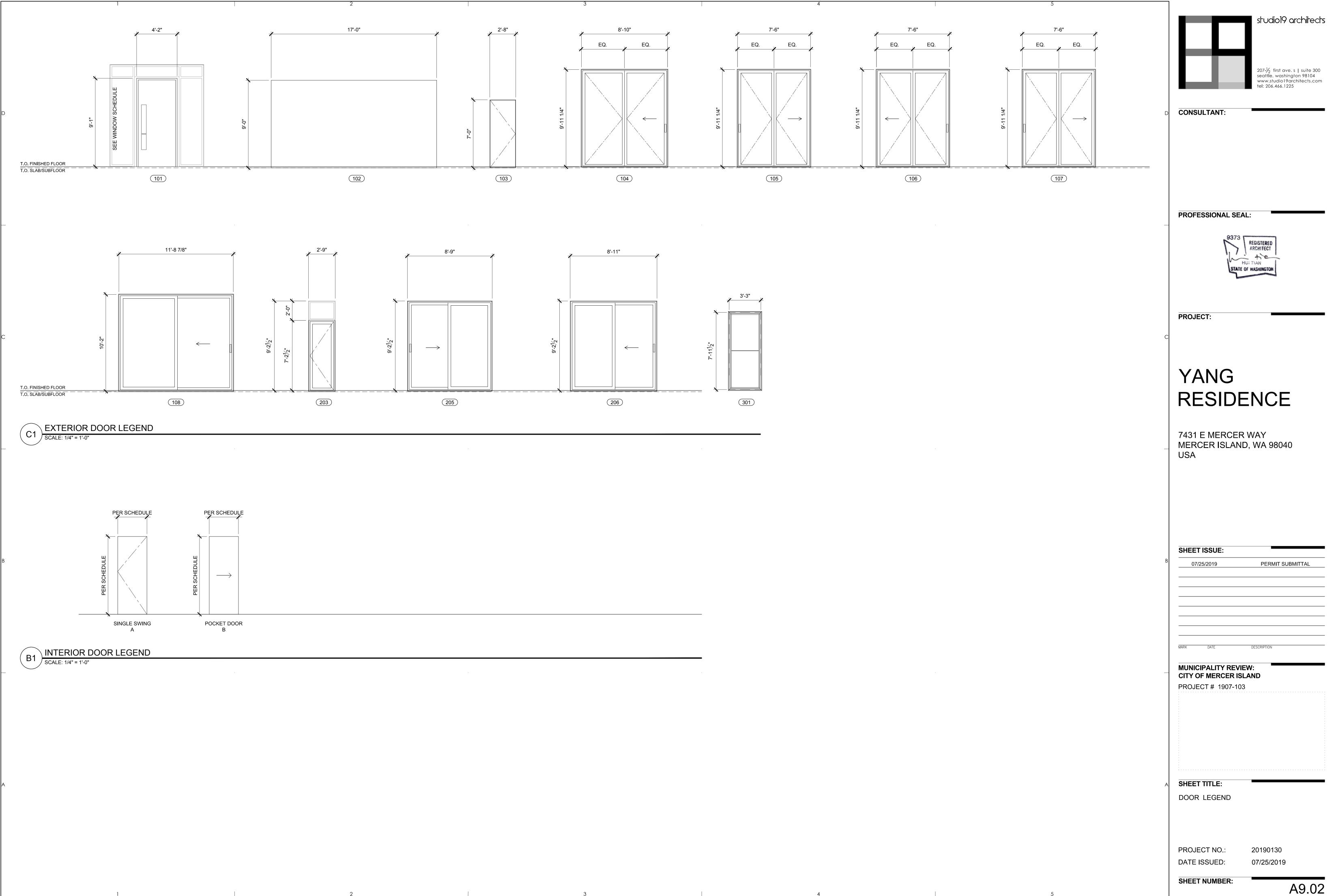
DOOR AND WINDOW SCHEDULE

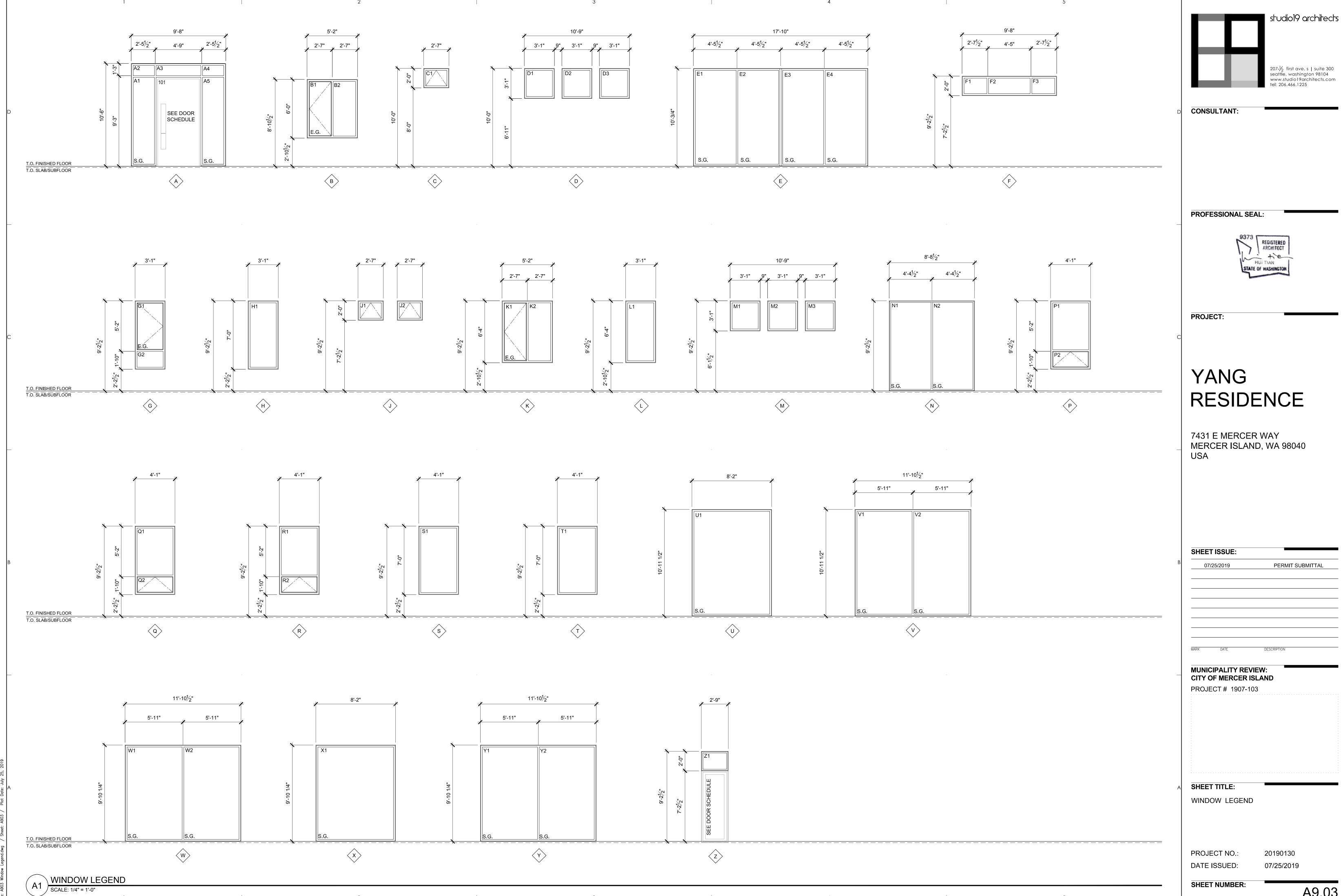
PROJECT NO.:

20190130 DATE ISSUED: 07/25/2019

DOOR SCHEDULE

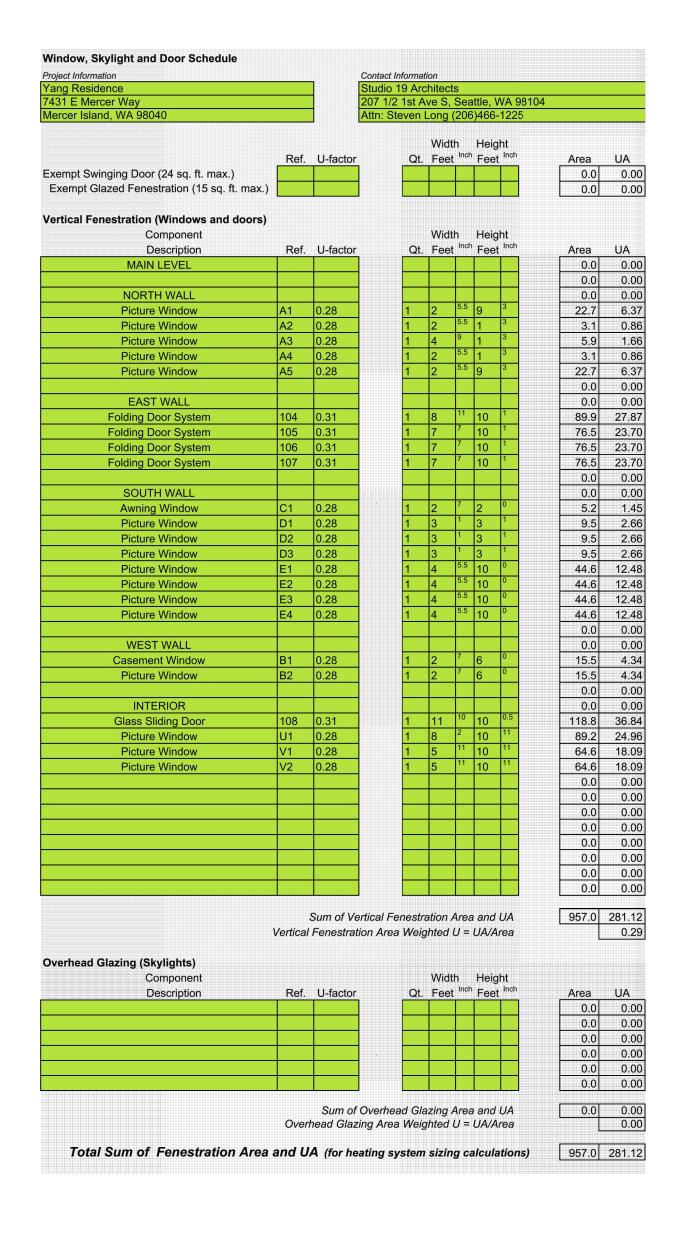
SHEET NUMBER:





07/25/2019	PERMIT SUBMITTAL

A9.03





3,471 10.5 U-Factor X 0.30 U-Factor X 0.50	ections in the drose call the WSU n ts Seattle, WA 98104 (206) 466-1225	Energy Extens	
Studio 19 Architect 207 1/2 1st Ave S, 3 Attn: Steven Long (eat Pump ns". Design Temperar $\Delta T = Indoor (70 degr $ 3,471 10.5 U-Factor X 0.30 U-Factor X 0.50	ts Seattle, WA 98104 (206) 466-1225 ture Difference (access) - Outdoor Design Conditioned Vo 36,446 Area = 1,816 Area =	ΔT) Temp Slume UA 544.65	45
207 1/2 1st Ave S, S Attn: Steven Long (eat Pump ns". Design Temperar ΔT = Indoor (70 degr 3,471 10.5 U-Factor X 0.30 U-Factor X 0.50	Conditioned Vo 36,446 Area 1,816 Area	ΔT) Temp Slume UA 544.65	45
Attn: Steven Long (eat Pump ns". Design Tempera: ΔT = Indoor (70 degr 3,471 10.5 U-Factor X 0.30 U-Factor X 0.50	ture Difference (Access) - Outdoor Design Conditioned Vo 36,446 Area = 1,816 Area =	ΔT) Temp Slume UA 544.65	45
Peat Pump Ins". Design Temperat ΔT = Indoor (70 degr 3,471 10.5 U-Factor X 0.30 U-Factor X 0.50	ture Difference (Access) - Outdoor Design Conditioned Vo 36,446 Area = 1,816 Area =	olume UA 544.65	45
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10.5 U-Factor X 0.30 U-Factor X 0.50	36,446 Area = 1,816 Area =	UA 544.65	
U-Factor X 0.30 U-Factor X 0.50	36,446 Area = 1,816 Area =	UA 544.65	
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		17 713 1	Btu / Hour
e X 0.6 X∆T X.018			
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um Heat Equipme g and Duct Heat Loss X 1.	ent Output 40 for Forced Air Furna	106,830 E	3tu / Hour
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	tects		
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	U-Factor X No selection U-Factor X 0.056 U-Factor X 0.029 U-Factor X F-Factor X 0.360 Duct L of UA Depe Heat Load of UA X AT akage Heat Load of VA Y AT akage Heat Load of V	U-Factor X Area 0.056	U-Factor X Area UA 0.056

Total Credits

(07/01/13) the minimum values listed. In addition, based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant. Date 6/14/19 Authorized Representative All Climate Zones R-Value^a U-Factor^a Fenestration U-Factor 0.30 n/a Skylight U-Factor 0.50 n/a Glazed Fenestration SHGC^{b,e} n/a 49^j 0.026 Wood Frame Wall^{g,m,r} 21 int 0.056 Mass Wall R-Value 21/21^h 0.056 30⁹ 0.029 Below Grade Wall^{c,m} 0.042 10/15/21 int + TB 10, 2 ft n/a Slab^d R-Value & Depth *Table R402.1.1 and Table R402.1.3 Footnotes included on Page 2. Each dwelling unit in a residential building shall comply with sufficient options from Table R406.2 so as to achieve the following minimum number of credits: 1. Small Dwelling Unit: 1.5 credits Dwelling units less than 1500 square feet in conditioned floor area with less than 300 square feet of fenestration area. Additions to existing building that are greater than 500 square feet of heated floor area but less than 1500 2. Medium Dwelling Unit: 3.5 credits All dwelling units that are not included in #1 or #3. Exception: Dwelling units serving R-2 occupancies shall require 2.5 credits. 3. Large Dwelling Unit: 4.5 credits Dwelling units exceeding 5000 square feet of conditioned floor area. 4. Additions less than 500 square feet: .5 credits Table R406.2 Summary Option Description

1a Efficient Building Envelope 1a

1b Efficient Building Envelope 1b

1c Efficient Building Envelope 1c 0.5 1d Efficient Building Envelope 1d 2a Air Leakage Control and Efficient Ventilation 2a 2b Air Leakage Control and Efficient Ventilation 2b
2c Air Leakage Control and Efficient Ventilation 2c
3a High Efficiency HVAC 3a 1.0 1.0 3a High Efficiency HVAC 3a
3b High Efficiency HVAC 3b
3c High Efficiency HVAC 3c
3d High Efficiency HVAC 3d
4 High Efficiency HVAC Distribution System
5a Efficient Water Heating 5a
5b Efficient Water Heating 5c
5c Efficient Water Heating 5c 1.0 5d Efficient Water Heating 5d 0.0 6 Renewable Electric Energy 3.50 *Please refer to Table R406.2 for complete option descriptions



CONSULTANT:

PROFESSIONAL SEAL:



PROJECT:

YANG RESIDENCE

7431 E MERCER WAY MERCER ISLAND, WA 98040

07	/25/2019	PERMIT SUBMITTAL
ARK	DATE	DESCRIPTION

MUNICIPALITY REVIEW: CITY OF MERCER ISLAND PROJECT # 1907-103

SHEET TITLE:

ENERGY SUMMARY

PROJECT NO.: DATE ISSUED:

20190130 07/25/2019

SHEET NUMBER:

A9.04

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

- 1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE 2015 INTERNATIONAL BUILDING CODE.
- DESIGN LOADING CRITERIA
 - SDC D, SITE CLASS D, le=1.0, Ss=1.45, S1=0.55, SDS=0.97, SD1=0.55, Cs=0.15 SEISMIC BASE SHEAR, Vs = 10.5 KIPS
- 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 PROVIDE TEMPORARY BRACING FOR THE STRUCTURE & STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS & 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 OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE
- 6. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT & STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 7. 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.

GEOTECHNICAL

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

ALLOWABLE SOIL PRESSURE	2000 PSF
LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)	45 PCF/35 PCF
COEFFICIENT OF FRICTION (FS = 1.5 INCLUDED)	0.35
SOILS REPORT REFERENCE:	

CASCADE GEOTECH NW GEOTECHNICAL REPORT DATED: DECEMBER 5, 2018 PROJECT NO. 2018-015

CONCRETE

- 9. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906 AND ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF fc = 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.
- 10. 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 FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH TABLE 1904.2 OF THE INTERNATIONAL BUILDING CODE. EXPOSED CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI. NO SPECIAL INSPECTION IS REQUIRED FOR 3000 PSI INSTALLED SOLELY TO SATISFY EXPOSED CONCRETE REQUIREMENTS.
- 11. 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. SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM 615, GRADE 60, fy = 60,000 PSI.
- 12. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315-92 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

- 13. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
- FTGS & OTHER UNFORMED SURFACES CAST AGAINST & PERMANENTLY EXPOSED TO EARTH...3 SLABS AND WALLS (INTERIOR FACE) GREATER OF BAR Ø PLUS 1/8" OR 3/4"
- 14. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS & DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE & OTHER FINISH DETAILS AT ALL EXPOSÉD CONCRÉTE SURFACÉS, BOTH CAST-IN-PLACE AND PRE-CAST

ANCHORAGE

- 15. EXPANSION BOLTS INTO CONCRETE & CONCRETE MASONRY UNITS SHALL BE "STRONG BOLT 2" ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY & INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037. BOLTS INTO CONCRETE MASONRY OF BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATIONS.
- 16. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2508. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. THREADED RODS SHALL BE ASTM A-36, UNO.

STEEL

- 17. STRUCTURAL STEEL DESIGN, FABRICATION, & ERECTION SHALL BE BASED ON EITHER AISC-LRFD, AISC 360, OR AISC-HSS AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE.
 - 1. EITHER AISC-LRFD, AISC 360, OR AISC-HSS & SECTION 2205.2 OF THE INT'L BUILDING CODE. 2. MARCH 7, 2000 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES, AMENDED AS NOTED IN THE CONTRACT DOCUMENTS AND BY THE DELETION OF
 - 3. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
- 18. 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 = 46 KSI. CONNÉCTION BOLTS SHALL CONFORM TO ASTM A307.
- 19. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL BE PERFORMED BY W.AB.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PRE QUALIFIED WELDS (AS DEFINED BY A.W.S.) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

QUALITY ASSURANCE

LARGE BEAMS:

WOOD

20. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECS & SECTIONS 110 & 1704 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, & RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, & BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION IS REQUIRED OF THE FOLLOWING TYPES OF

STRUCTURAL STEEL FABRICATION AND ERECTION

PER ACI360 Sect. N5

DOUGLAS-FIR-LARCH OR HEM-FIR NO. 2

21. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, & GRADED & MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS AND BEAMS: (2x & 3x MEMBERS) (4x MEMBERS)

HEM-FIR NO. 2 MINIMUM BASE VALUE, Fb = 850 PSI DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1000 PSI DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI (INCL. 6x AND LARGER) (4x MEMBERS) DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE. Fc = 1350 PSI DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc = 1000 PSI (6x AND LARGER)

STUDS, PLATES & MISC. FRAMING

- 22. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND AITC STANDARDS. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb = 2,400 PSI, Fv = 240 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2,400 PSI, Fv = 240 PSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS TO 3,000' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.
- 23. MANUFACTURED LUMBER, PSL, LVL, AND LSL, SHALL BE MANUFACTURED UNDER A PROCESS APPROVED BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. ALL PSL, LVL AND LSL LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH ICC-ES ESR-1387 USING DOUGLAS FIR VENEER GLUED WITH A WITH THE LENGTH OF THE MEMBERS. SHALL HAVE THE GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. THE MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSI PSL (2.0E) Fb = 2600 PSI, E = 1900 KSI, Fv = 285 PSI LVL (1.9E) Fb = 2250 PSI, E = 1500 KSI, Fv = 285 PSI LSL (1.5E)

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

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

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

25. 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 (ROOF DECK) TOP CHORD SNOW LOAD 25 PSF
TOP CHORD DEAD LOAD (AT ROOF DECK) 15 PSF
TOP CHORD DEAD LOAD (AT STD ROOF) 10 PSF BOTTOM CHORD DEAD LOAD

40 PSF (60 PSF @ ROOF DECK)

TOTAL LOAD
WIND UPLIFT (TOP CHORD) BOTTOM CHORD LIVE LOAD

MEMBERS CONNECTED.

40 PSF (@ STD ROOF); 75 PSF (@ ROOF DECK) PER ASCE 7-10 10 PSF (BOTTOM CHORD LIVE LOAD DOES NOT ACT CONCURRENTLY WITH THE ROOF LIVE LOAD)

WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANG NAIL OR EQUAL). SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT & 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, & 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.

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

> ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16. FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24. WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0. REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

- 27. 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.
- 28. PRESSURE TREATED WOOD SHALL BE TREATED WITH WATERBORNE PRESERVATIVES PER AWPA STANDARD U1. INTERIOR WOOD IN CONTINUOUS CONTACT WITH CONCRETE (SUCH AS SILL PLATES) SHALL BE IN ACCORDANCE WITH USE CATEGORY 2 (UC2).WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE IN ACCORDANCE WITH USE CATEGORY 3B (UC3B). TIMBER CONNECTORS IN DIRECT CONTACT WITH TREATED WOOD SHALL BE G185 OR A185 HOT DIPPED OR CONTINUOUS HOT GALVANIZED PER ASTM A653. FASTENERS AND TIMBER CONNECTORS IN DIRECT CONTACT WITH ACZA TREATED WOOD SHALL BE TYPE 304 OR 316 STAINLESS STEEL
- 29. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2015. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICBO OR ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FAITH THE RAAS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS
- ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS

WOOD (continued)

- 30. WOOD FASTENERS
- A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

3-1/4" 16d BOX 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. PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

- 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 (2008 EDITION) WITH A LEAD BORE HOLE OF 60-70% OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8"Ø AND SMALLER LAG SCREWS.
- 31. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:
- A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE. MINIMUM NAILING, UNLESS NOTED OTHERWISE, SHALL CONFORM TO TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE. COORDINATE THE SIZE & LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL
- S. WALL FRAMING: REFER TO ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" OC, UNLESS NOTED OTHERWISE TWO STUDS, MINIMUM, SHALL BE PROVIDED AT THE END OF ALL WALLS & AT EACH SIDE OF ALL OPENINGS, & AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

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

FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH & AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS NOTED OTHERWISE PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEARING POINTS. JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12"OC UNLESS NOTED OTHERWISE ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6"OC WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS & OVER STUD WALLS AS SHOWN ON PLANS AND @ 12"OC TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR & ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12"OC, UNLESS NOTED OTHERWISE.

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

SHOP DRAWINGS

STRUCTURAL STEEL

32. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS: CONNECTOR PLATE WOOD ROOF TRUSSES

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

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

33. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW & 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.

34. SHOP DRAWINGS OF DESIGN BUILD COMPONENTS INCLUDING ROOF TRUSSES AND PREFABRICATED STAIR SYSTEMS SHALL INCLUDE THE DESIGNING PROFESSIONAL ENGINEER'S STAMP, STATE OF WASHINGTON, AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO REVIEW OF THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE MADE AVAILABLE UPON REQUEST.

DRAWING INDEX

\$1.0 GENERAL STRUCTURAL NOTES, ABBREVIATIONS & LEGEND

S2.0 FOUNDATION PLAN

S2.1 UPPER FLOOR FRAMING PLAN

S2.2 ROOF DECK FRAMING PLAN

S3.0 FOUNDATION DETAILS

S4.0 FRAMING DETAILS S4.1 FRAMING DETAILS

S4.2 FRAMING DETAILS

LEGENDS CONCRETE ON PLAN **COLUMN BELOW BEARING WALL BELOW** $\langle F1 \rangle$ **FOOTING TYPE** BEARING WALL ABOVE NON-BEARING WALL BELOW SECTION NUMBER ROOF DECK EXTENT ON PLAN DRAWING WHERE FOOTING (BELOW GRADE) SECTION IS LOCATED JOIST or RAFTER SPAN JOIST or RAFTER EXTENTS - DETAIL NUMBER LOW ROOF FRAMING - DRAWING WHERE BEAM or HEADER DETAIL IS LOCATED VERTICAL HOLDOWN STRAP - SECTION NUMBER METAL CONNECTOR HORIZ STRAPPING HARDWARE DRAWING WHERE SECTION TAKEN FROM SWX (X'-X") SHEARWALL TYPE & LENGTH

H, HT

HDR

HORIZ

HGR(S)

HEIGHT

HANGER(S)

HORIZONTAL

HEADER

ABBREVIATIONS AND ΑT

AB

GΑ

GL

GLB

GT

GALV

GAUGE

GALVANIZED

GLULAM BEAM

GIRDER TRUSS

GRIDLINE, BAYLINE

ALT

ANCHOR BOLT

ALTERNATE(LY)

INTERSECTION INT **APPROX** APPROXIMATE(LY) INTR INTERIOR **ARCH** ARCHITECT(URAL) **INVERTED BEAM** INV BETWEEN KING POST BETW'N BLDG BUILDING LONG BLKG **BLOCKING** LIVE LOAD BOT BOTTOM LT LIGHT **BACKSPAN** MATERIAL BS MATL BU **BUILT UP** MAXIMUM MAXCENTER LINE MFR MANUFACTURER COMPLETE WITH MIN MINIMUM C/W CC CENTER TO CENTER NEW CONSTRUCTION JOINT N/S **NEAR SIDE** NTS NOT TO SCALE COL COLUMN CONC OC CONCRETE ON CENTER CONST CONSTRUCTION OPNG OPENING CONTINUOUS OPPO OPPOSITE **OPEN WEB STEEL JOIST OWSJ** CENTER DETAIL **PERP** PERPENDICULAR DIM DIMENSION PL, P PLATE PRESSURE TREATED DEAD LOAD RADIUS DN DOWN REINF REINFORCEMENT DITTO DO REQ'D REQUIRED DP DEEP REV REVISION DS DRAG STRUT R/W REINFORCED WITH **DRAGTRUSS** SECT SECTION DWGS DRAWINGS SIM SIMILAR EACH SOG **SLAB ON GRADE** EF **EACH FACE** SP SPACE(D)(S)(ING) **ELEVATION** EL SPEC **SPECIFICATION** EQ SP EQUAL(LY) SPACES(D) STAG STAGGERED ΕW **EACH WAY** STD STANDARD (E) **EXISTING** STIR(S) STIRRUP(S) EXT **EXTERIOR** STL STEEL FB FLUSH BEAM STR STRUCTURE(AL) FD FLOOR DRAIN SW SHEAR WALL FDN FOUNDATION TOP AND BOTTOM T&B FINISHED, FINAL GRADE FIN GR T&G TOUNGE AND GROOVE FIN FL FINISHED FLOOR THK THICK(NESS) **FLOOR** FL TOC TOP OF CONCRETE FRMG FRAMING TOS TOP OF STRUCTURAL STEEL F/S FAR SIDE TYP TYPICAL FTG **FOOTING**

U/S

UNO

VERT

UNDERSIDE

VERTICAL

WIDE

WITH

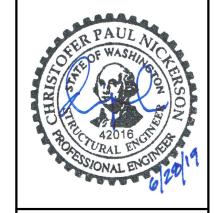
UNLESS NOTED OTHERWISE

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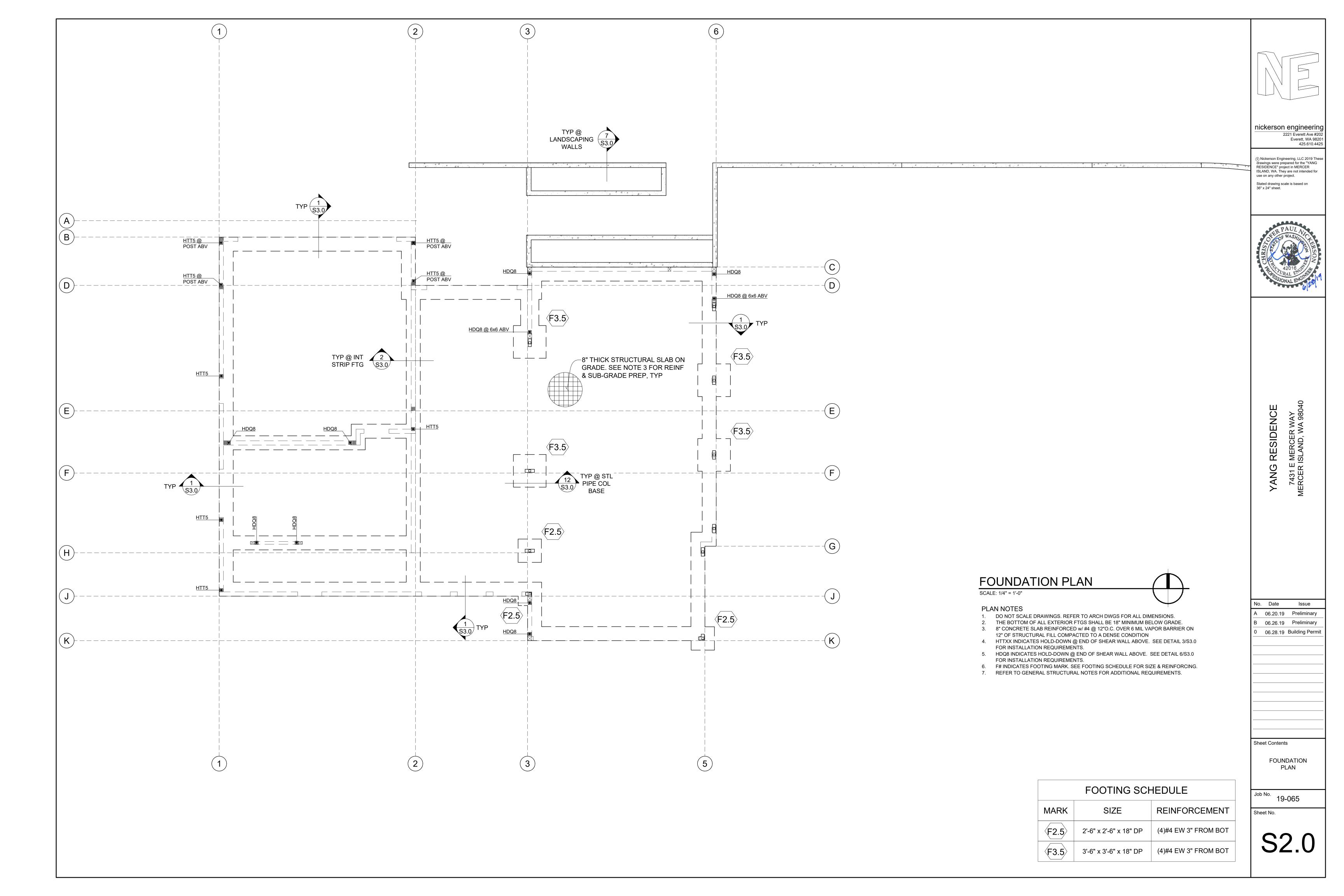
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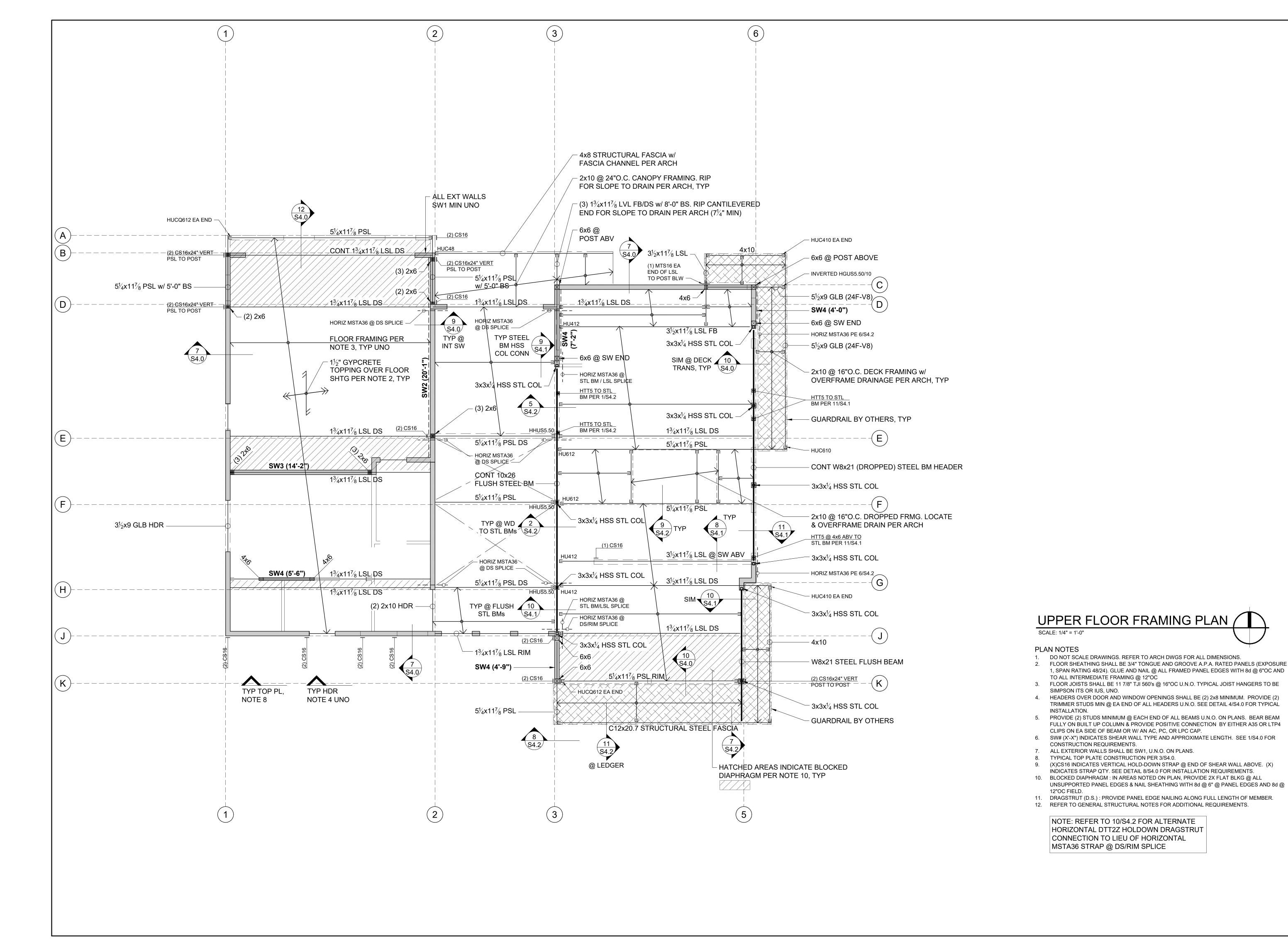
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Sheet Contents GENERAL STRUCTURAL NOTES, **ABBREVIATIONS** & LEGEND

Job No. 19-065

Sheet No.



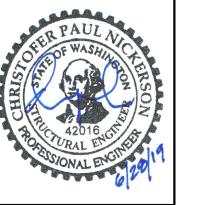


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4ERCER ISLAND, WA 98040

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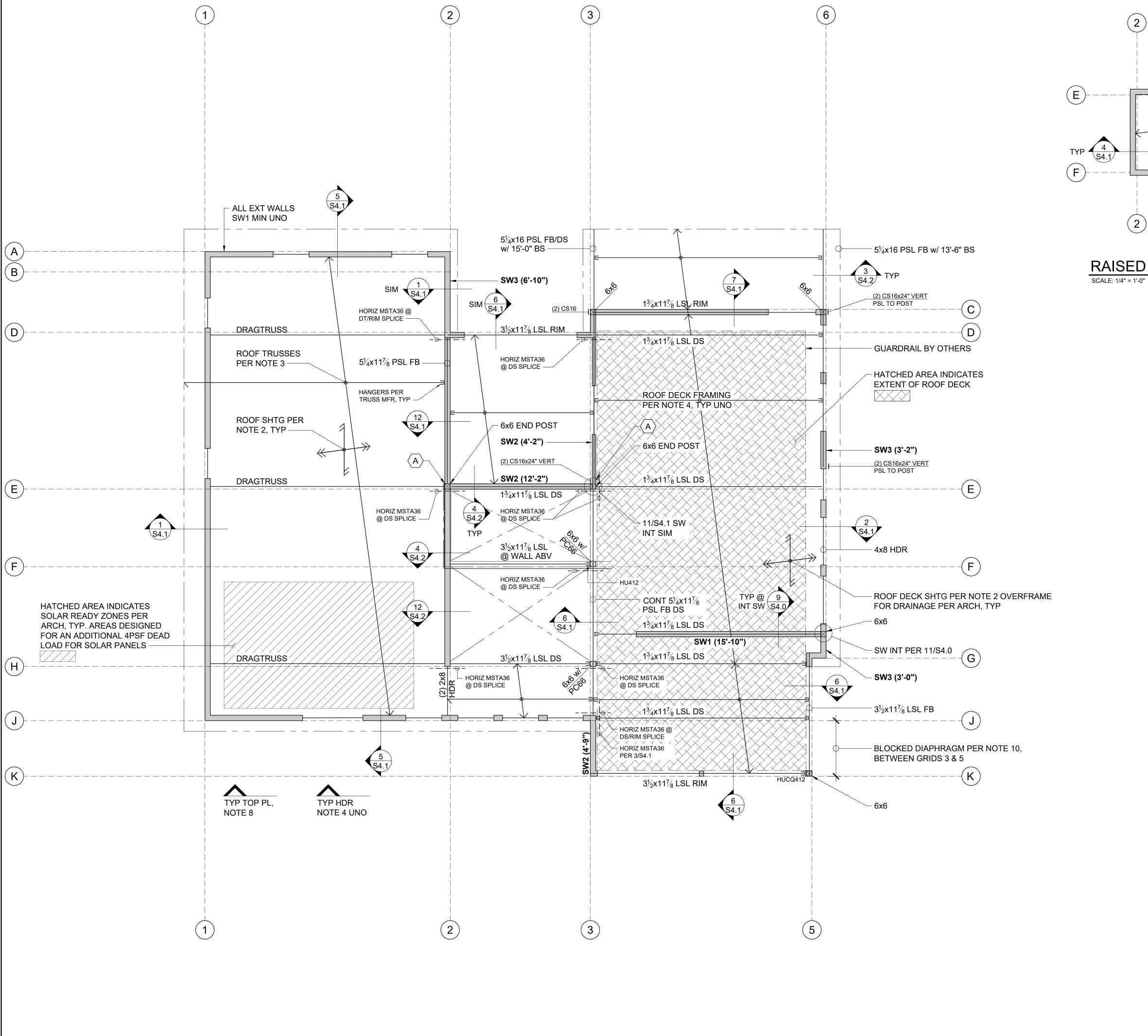
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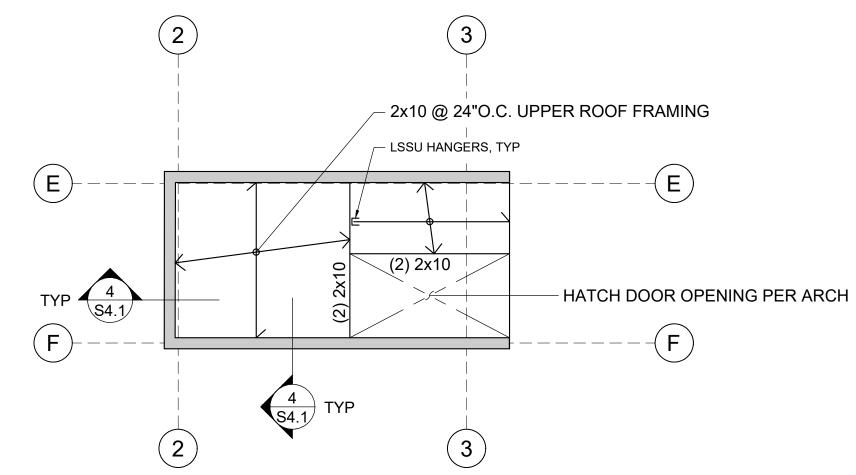
UPPER FLOOR FRAMING PLAN

Job No. 19-065

Sheet No.

S2.1





RAISED ROOF AT DECK ACCESS

ROOF DECK FRAMING PLAN SCALE: 1/4" = 1'-0"

PLAN NOTES

- 1. DO NOT SCALE DRAWINGS. REFER TO ARCH DWGS FOR ALL DIMENSIONS. ROOF DECK SHEATHING SHALL BE 3/4" TONGUE AND GROOVE A.P.A. RATED PANELS (EXPOSURE 1, SPAN RATING 48/24). GLUE AND NAIL @ ALL FRAMED PANEL EDGES WITH 8d
- @ 6"OC AND TO ALL INTERMEDIATE FRAMING @ 12"OC ROOF FRAMING SHALL BE PREFABRICATED ROOF TRUSSES @ 24"OC. TRUSS DESIGN TO BE PROVIDED BY OTHERS. SEE STRUCTURAL NOTES FOR DESIGN REQUIREMENTS. ROOF DECK JOISTS SHALL BE 11 7/8" TJI 560's @ 16"OC U.N.O. TYPICAL JOIST HANGERS TO
- BE SIMPSON ITS OR IUS, UNO. HEADERS OVER DOOR AND WINDOW OPENINGS SHALL BE (2) 2x8 MINIMUM. PROVIDE (2) TRIMMER STUDS MIN @ EA END OF ALL HEADERS U.N.O. SEE DETAIL 4/S4.0 FOR TYPICAL INSTALLATION.
- FULLY ON BUILT UP COLUMN & PROVIDE POSITIVE CONNECTION BY EITHER A35 OR LTP4 CLIPS ON EA SIDE OF BEAM OR W/ AN AC, PC, OR LPC CAP. 7. SW# (X'-X") INDICATES SHEAR WALL TYPE AND APPROXIMATE LENGTH. SEE 1/S4.0 FOR

6. PROVIDE (2) STUDS MINIMUM @ EACH END OF ALL BEAMS U.N.O. ON PLANS. BEAR BEAM

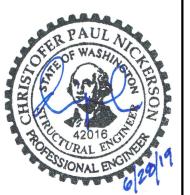
- CONSTRUCTION REQUIREMENTS.
- 8. ALL EXTERIOR WALLS SHALL BE SW1, U.N.O. ON PLANS.
- 9. TYPICAL TOP PLATE CONSTRUCTION PER 3/S4.0.
- 10. BLOCKED DIAPHRAGM: IN AREAS NOTED ON PLAN, PROVIDE 2X FLAT BLKG @ ALL UNSUPPORTED PANEL EDGES & NAIL SHEATHING WITH 8d @ 6" @ PANEL EDGES AND 8d @
- 11. DRAGSTRUT (D.S.): PROVIDE PANEL EDGE NAILING ALONG FULL LENGTH OF MEMBER. 12. DRAGTRUSS (D.T.): PROVIDE PANEL EDGE NAILING ALONG FULL LENGTH OF TOP CHORD. 13. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

A SHEARWALL SHTG CONTINUOUS TO END OF SW POST

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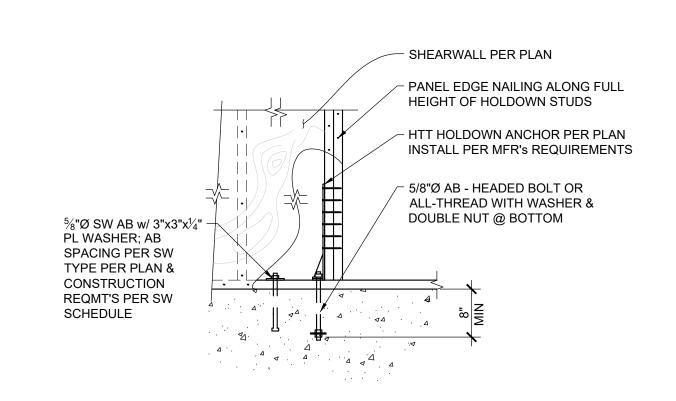
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Sheet Contents

ROOF DECK FRAMING PLAN

19-065

Sheet No.

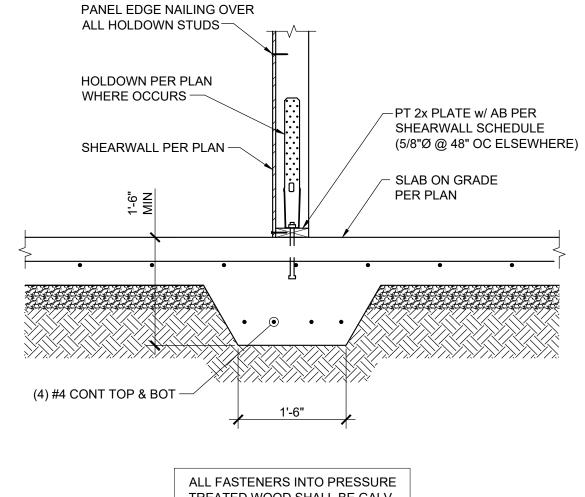




- CONCRETE WALL

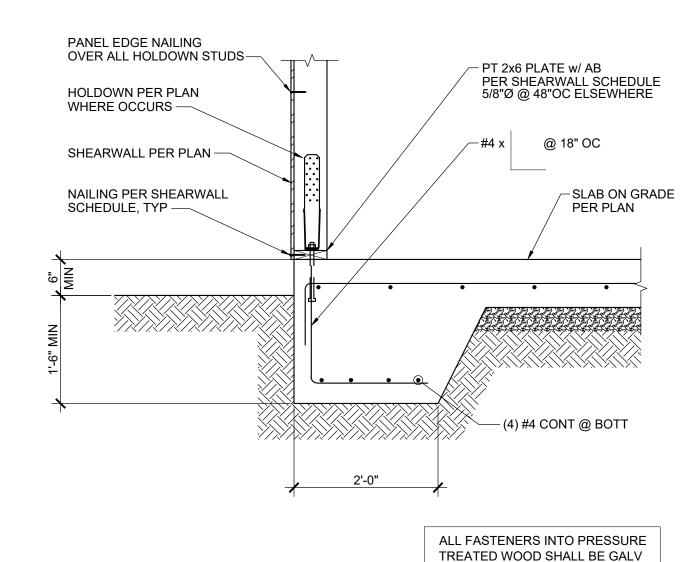
-ADD (1) #5 DIAGONAL

NORMAL FOOTING
REINFORCEMENT

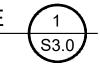


TREATED WOOD SHALL BE GALV OR STAINLESS STEEL PER GENERAL STRUCTURAL NOTES





FOUNDATION @ SLAB ON GRADE



OR STAINLESS STEEL PER GENERAL STRUCTURAL NOTES

PROVIDE FREE-DRAINING MATERIAL AS BACK FILL PRIOR TO PLACING JOISTS 1 1/2" CLR @ #4's & #5's 2" CLR @ #6's BY OTHERS

မူ POST & FTG

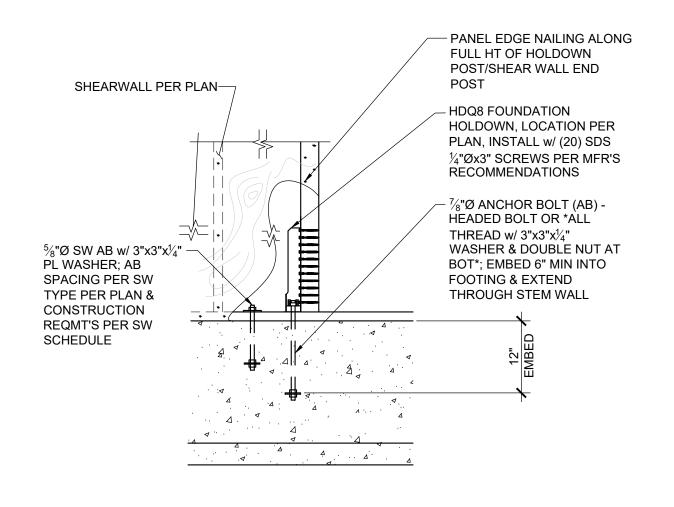
5/8" THICK PLATE -

1" SHIM & GROUT FOR FULL BEARING

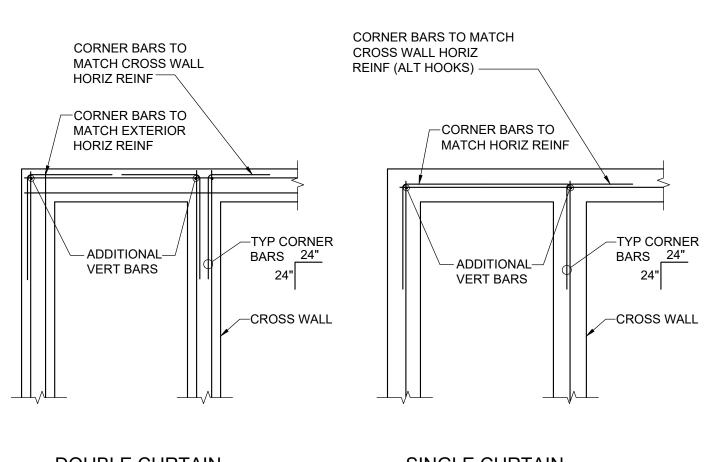
FOOTING REINF

PER PLAN

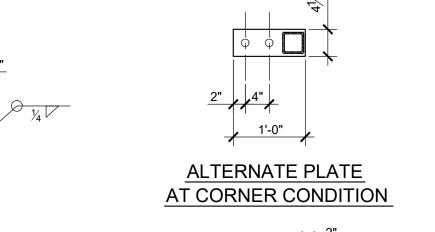
	RETAINING WALL SCHEDULE								
	H (ft)	B1	ts	B2	tf	STEM REINFORCING		FOOTING REINFORCING	
						VERTICAL	HORIZONTAL	TOP	LONGITUDINAL
	4'-0"	9"	8"	1'-3"	12"	#4 @ 12"OC	#4 @ 12"OC	#4 @ 18"OC	(4) #4
	5'-0"	1'-0"	8"	1'-6"	12"	#4 @ 12"OC	#4 @ 12"OC	#4 @ 18"OC	(5) #4
	6'-0"	1'-0"	8"	2'-0"	12"	#4 @ 12"OC	#4 @ 12"OC	#4 @ 18"OC	(5) #4
	7'-0"	1'-6"	8"	2'-3"	12"	#4 @ 10"OC	#4 @ 12"OC	#4 @ 18"OC	(6) #4







TYP CORNER BARS @ CONC WALLS & FTGS



ALTERNATE PLATE

AT CORNER CONDITION

BASE PLATE - HSS COLUMN

-HSS COLUMN

(2) ¾"Ø ANCHOR BOLTS; EMBED 8"

MIN INTO FOOTING

PER PLAN



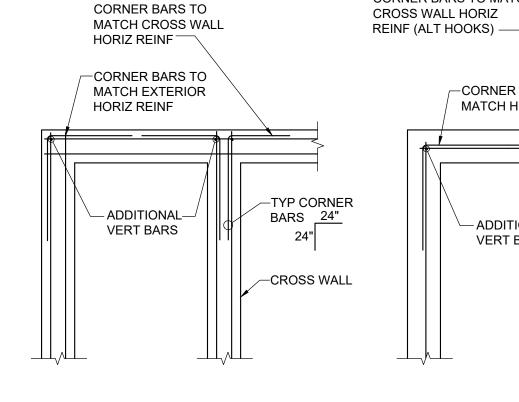
SITE RETAINING WALLS

NORMAL FOOTING REINFORCEMENT—

LINE OF EXCAVATION

ADD BARS TO MATCH NORMAL REINFORCING —

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



SINGLE CURTAIN DOUBLE CURTAIN

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Job No.

Sheet Contents

FOUNDATION

DETAILS

19-065

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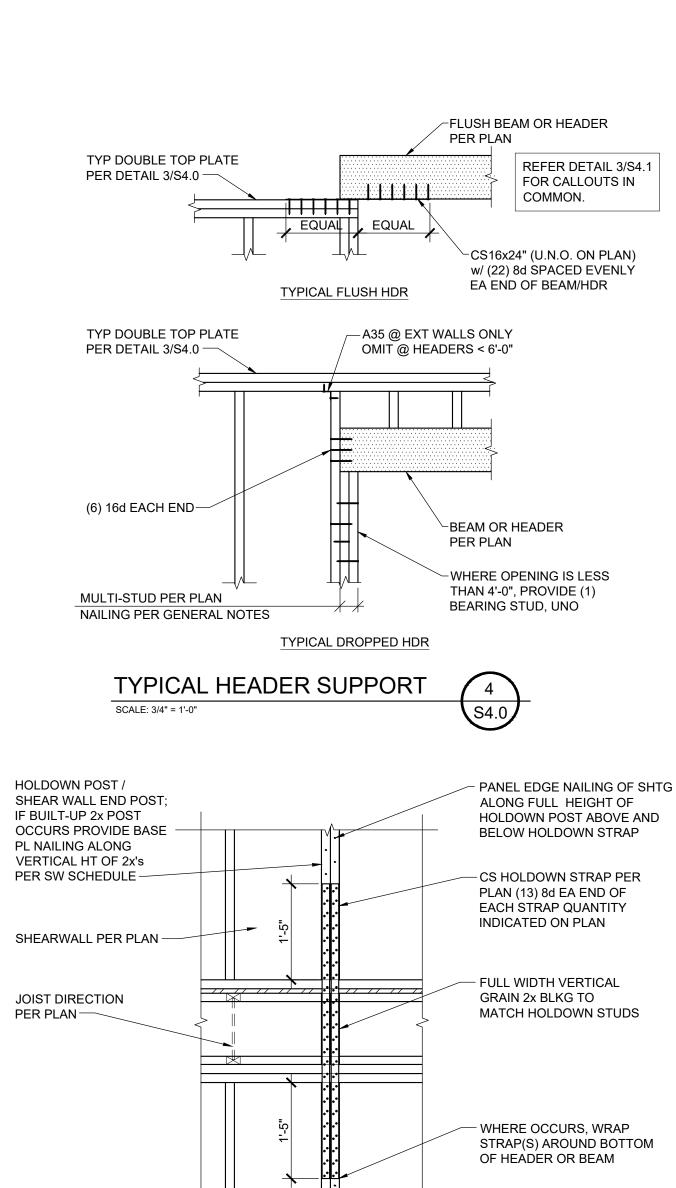
YANG

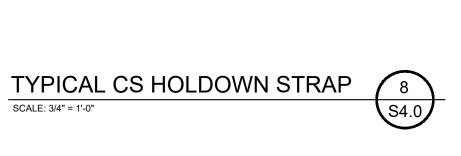
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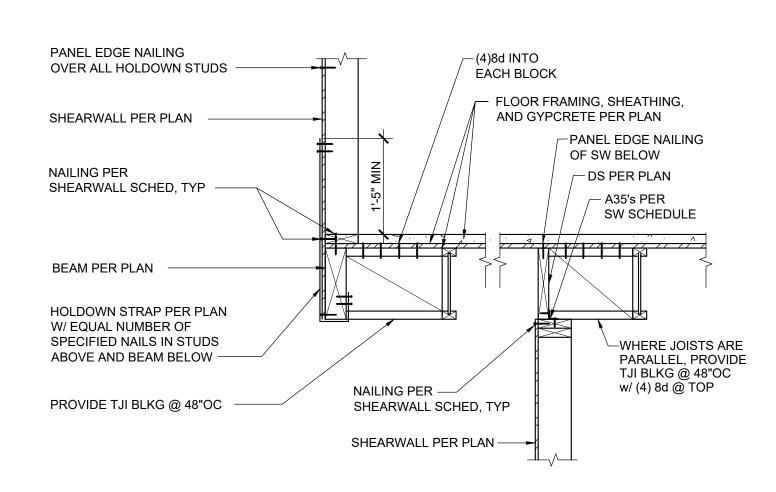
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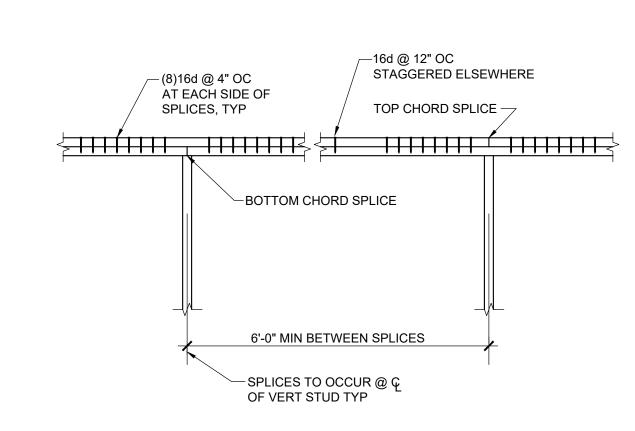
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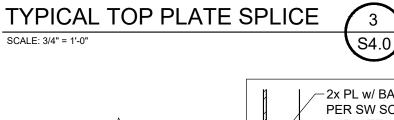


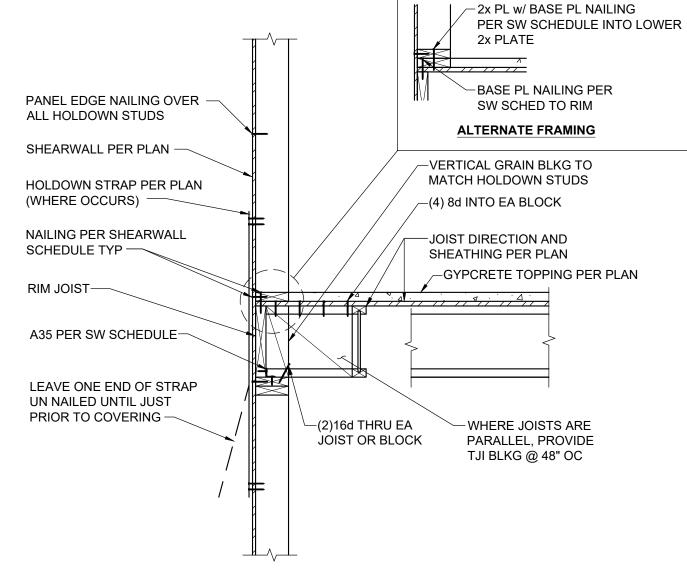




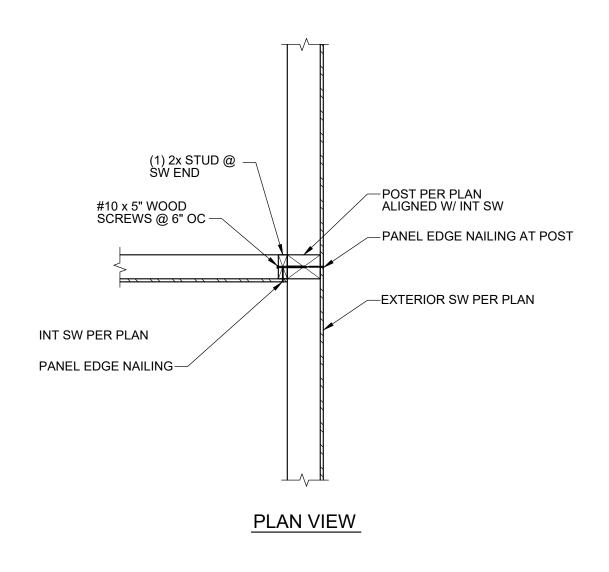








EXTERIOR WALL @ FLOOR

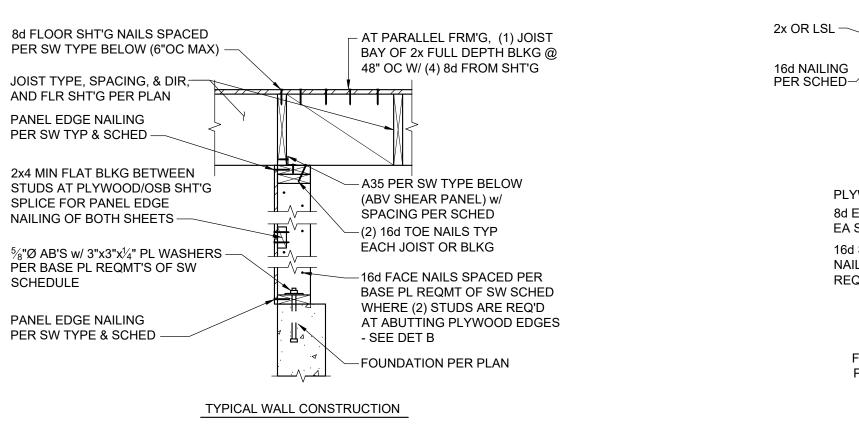


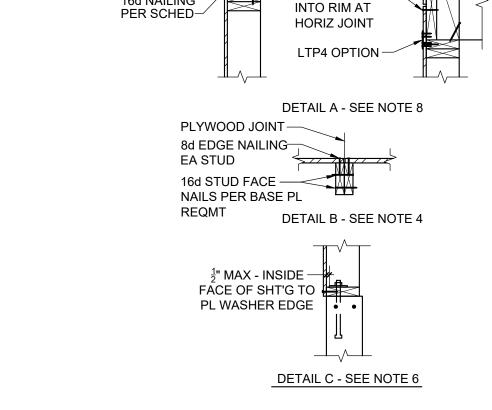


SHEARWALL (SW) SCHEDULE 147

M	MADIC	SHEATHING	PANEL EDGE NAILING 2	8 10 TOP PLATE C	ONNECTION	BASE PLATE CONNECTION		
	MARK			at TJI	LSL	at WOOD	at CONCRETE3	
	SW1	½" PLYWOOD	8d @ 6"OC	16d @ 6"OC	A35 @ 24"OC	16d @ 6"OC	5⁄8"Ø AB @ 48"OC	
	SW2	½" PLYWOOD	8d @ 4"OC	16d @ 4"OC	A35 @ 16"OC	16d @ 4"OC	5⁄8"Ø AB @ 32"OC	
	sw3 ⁵	½" PLYWOOD	8d @ 3"OC	(2)ROWS16d @ 6"OC	A35 @ 12"OC	16d @ 3"OC	5/8"Ø AB @ 16"OC 6	
	sw45	½" PLYWOOD	8d @ 2"OC	(2)ROWS 16d @ 4 1/2"OC	A35 @ 8"OC	(2) ROWS 16d @ 4½"OC	⁵ / ₈ "Ø AB @ 12"OC 6	

- 1 BLOCK PANEL EDGES WITH 2x LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"OC.
- (2) 8d NAILS SHALL BE 0.131"Ø x 2½" (COMMON); ACCEPTABLE SUBSTITUTE FOR 8d's ARE 10d's OF 0.131"Ø x 3" AT CONTRACTORS OPTION; 16d NAILS SHALL BE 0.135"Ø x $3\frac{1}{2}$ " (BOX) , 0.148"Ø x 3" (SINKER), OR 0.162"Ø x 3" (COMMON WIRE)
- (3) EMBED ANCHOR BOLTS (AB'S) 7" MIN & PROVIDE 3"x3"x/4" PL WASHER AT EA AB; EXPANSION BOLTS, TITEN HD ANCHORS, OR EPOXY EMBEDDED THREADED RODS MAY BE POST INSTALLED IN LIEU OF AB'S; ALL POST INSTALLED ANCHORS SHALL HAVE 3"x3"x\u0344" PL WASHER; EPOXY EMBEDDED OPTION SHALL UTILIZE SIMPSON SET-XP EPOXY.
- (4) (2)2x STUDS MIN ARE REQUIRED AT THE END OF ALL SHEAR WALL PANELS TO RECIEVE THE PANEL EDGE NAILING; BUILT UP 2x STUDS SHOULD FACE NAILED W/ 10d OR 16d NAILS PER THE BASE PL NAILNG REQMT'S OF THE SPECIFIC SW TYPE (PER PLAN)- SEE DETAIL B
- (5) SW3, SW4 & SW5 REQUIREMENTS: 3x STUDS OR (2) 2x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES. WHERE (2)2x STUDS ARE UTILIZED PROVIDE BASE PL NAILING ALONG FULL VERTICAL FACE OF 2x'S. EACH ROW OF PANEL EDGE NAILING TO BE STAGGERED HORIZONTALLY. FOR SW5, ABUTTING PANEL EDGES SHALL BE OFFSET EACH SIDE OF WALL.
- (6) SW3, SW4 & SW5 ANCHOR BOLT & PLATE WASHER PLACEMENT PLATE WASHERS SHALL BE NO MORE THAN ½" FROM INTERIOR FACE OF SHEATHING/SILL PLATE EDGE WHERE NAILING OCCURS - SEE DETAIL C. AT SW5, ANCHOR BOLTS TO BE STAGGERED.
- (7) ALL EXTERIOR WALLS SHALL BE SW1, UNLESS NOTED OTHERWISE
- (8) ALTERNATIVE CONNECTIONS FOR A35'S: LTP4 FLAT PL'S AT SAME SPACING FROM RIM/BLOCKING/BEAM TO TOP PL'S, A 2x NAILER FOR CEILING CONNECTION, OR THE HORIZONTAL SHEATHING SPLICE/JOINT TO OCCUR ON RIM/BLKG/BEAM (ABOVE TOP PL'S & BELOW BOTTOM PL) - SEE DETAIL A
- 9% 0SB IS ACCEPTABLE SUBSTITUTE FOR % CDX PLYWOOD w/ SIMILAR SPAN RATING.
- 10 ALL RIMS TO BE LSL $1\frac{3}{4}$ " x $11\frac{7}{8}$ ", UNO ON PLAN.





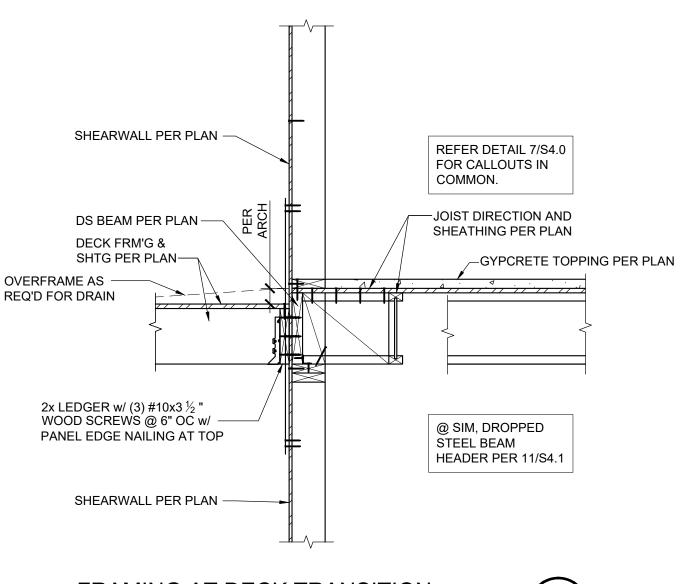
PER SW SCHED

INTO 2x NAILER

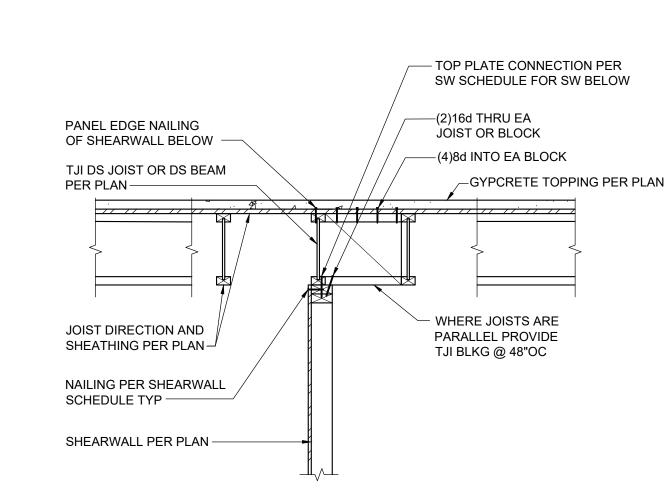
EDGE NAILING-

SHEARWALL SCHEDULE AND TYPICAL CONSTRUCTION

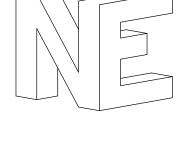








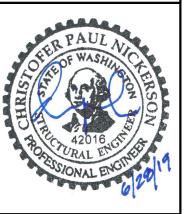
INTERIOR SHEARWALL BELOW w/ TJI's



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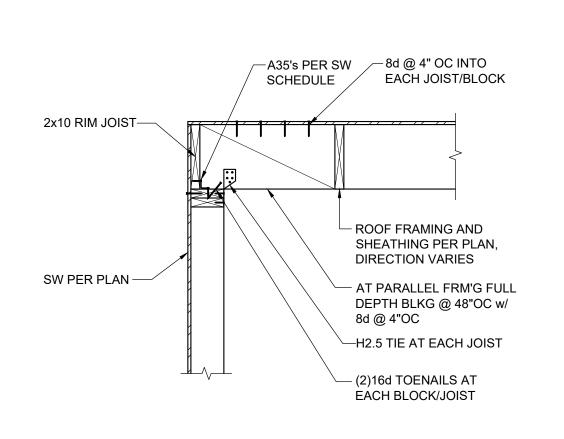
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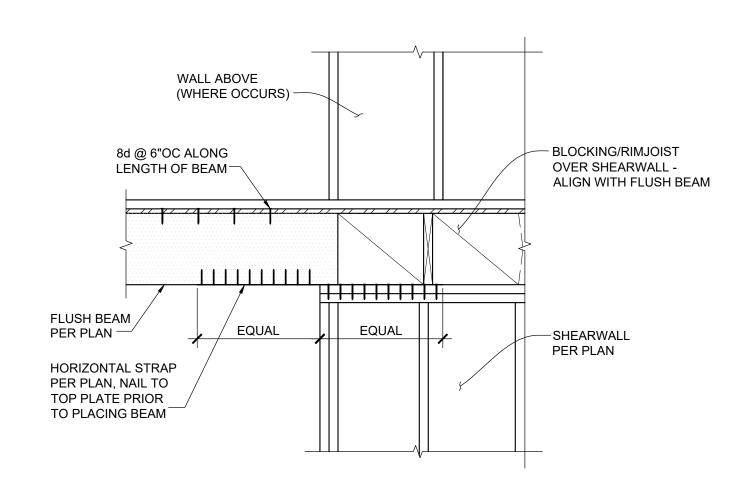
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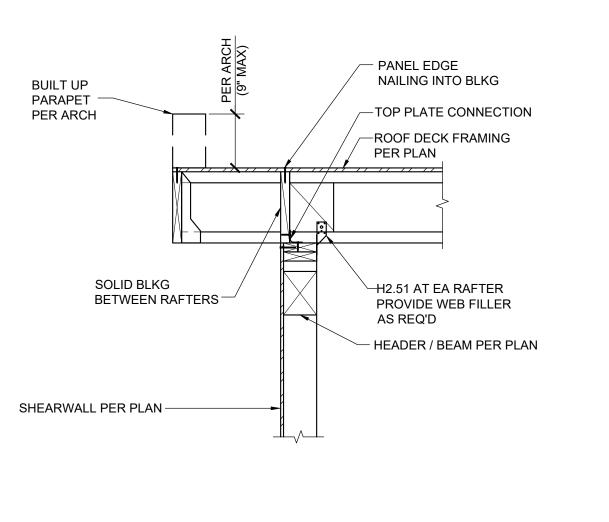
FRAMING DETAILS

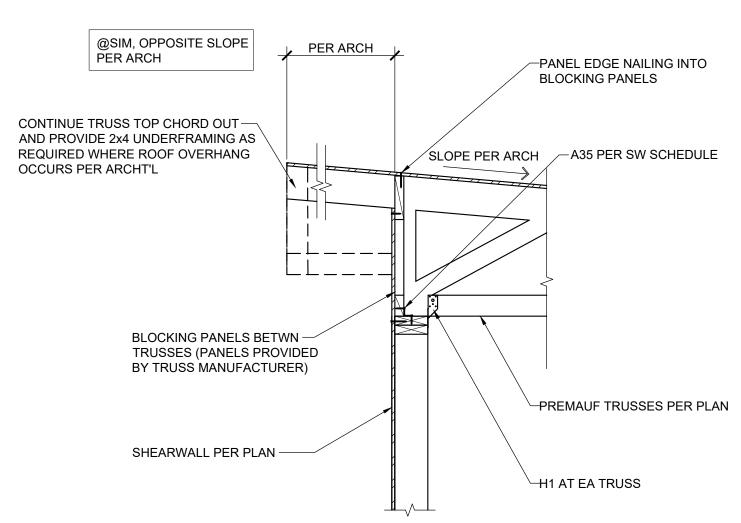
19-065

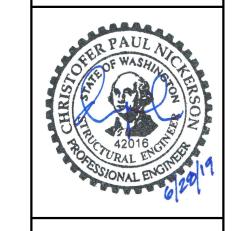
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RAISED ROOF FRAMING SECTION

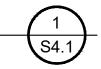
N 4 S4.1 TYPICAL DRAG STRUT STRAP 3
SCALE: 3/4" = 1'-0"
S4.

HIGH ROOF CONNECTION

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

EXTERIOR BEARING WALL @ ROOF

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



PANEL EDGE NAILING OVER
ALL HOLDOWN STUDS

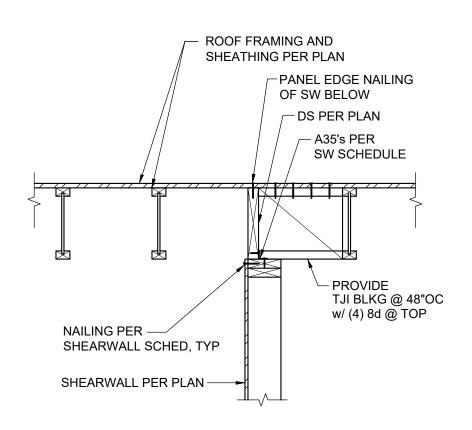
SHEARWALL PER PLAN

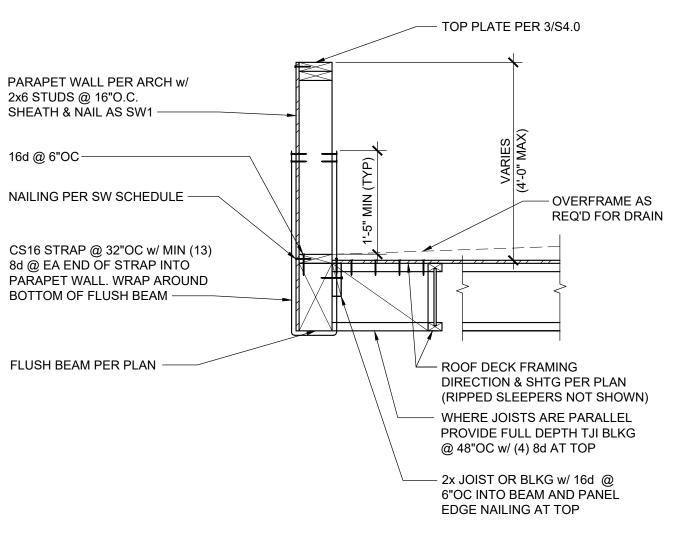
STRAP PER PLAN W/ EQUAL
NUMBER OF SPECIFIED NAILS IN
STUDS ABOVE & BEAM BELOW

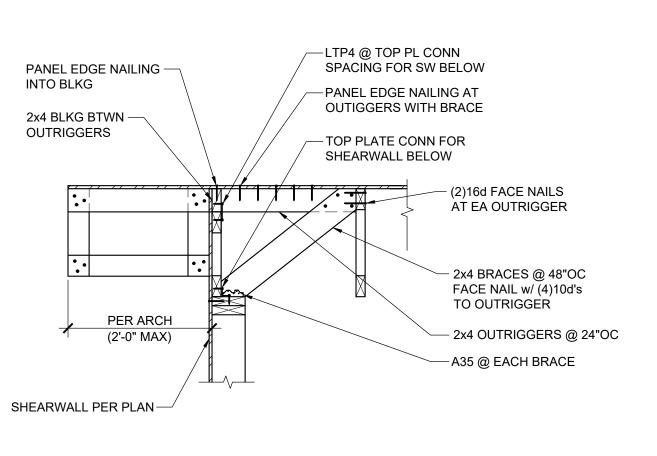
NAILING PER SHEARWALL
SCHEDULE TYP

GYPCRETE TOPPING PER PLAN

PROVIDE FULL DEPTH
BLKG EA SIDE OF STRAP







DISCONTINUOUS SHEAR WALL

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

16d @ 6" OC —

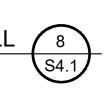
FLUSH BEAM PER PLAN -

CS16 STRAP @ 32"OC EACH

SIDE OF PARAPET w/ MIN (13) 8d @ EA END OF STRAP —

ROOF FRAMING

PER PLAN



FLASHING BY OTHERS

TOP PLATE PER 3/S4.0

-2x6 PARAPET WALL w/

-8d @ 6"OC INTO BLKG

SLOPE DIRECTION

11 11 11 11 11 11 11

VARIES, PER ARCH

PRE-FABRICATED TRUSS PER PLAN

-SOLID 2x OR LSL BLOCKING BTWN

-HANGER PER TRUSS MFR

TRUSSES w/ 16d @ 6" OC INTO BEAM

SHEATHE & NAIL AS SW1

STUDS @ 16" OC



PANEL EDGE NAILING

BOLT 3x6 NAILER TO BEAM -

w/ 5/8"Ø WTS @ 24"OC

INTO NAILER

COUNTERSINK AS REQD

OVER ALL HOLDOWN STUDS

PARAPET GUARD @ FLUSH BEAM w/ TJI's 6
SCALE: 3/4" = 1'-0"

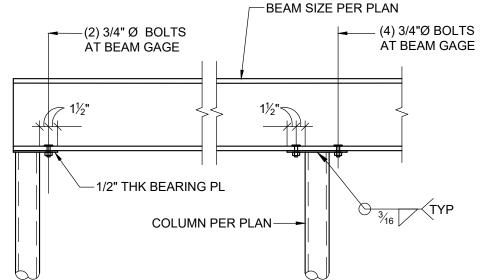
BOLT 2x6 NAILER TO BEAM

w/ 5/8"Ø WTS @ 24"OC

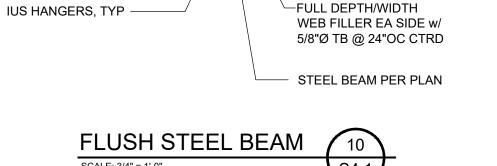
COUNTERSINK NUT AS

REQD INTO FLOOR SHTG





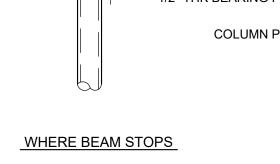
SHEARWALL PER PLAN -HOLDOWN PER PLAN (WHERE OCCURS) -VERTICAL GRAIN BLKG TO REFER DETAIL 1/S4.2 MATCH HOLDOWN STUDS FOR CALLOUTS IN COMMON. JOISTS AND SHEATHING PER PLAN NAILING PER SHEARWALL -A35's PER SW SCHEDULE, TYP -SCHEDULE —GYPCRETE TOPPING PER PLAN RIM JOIST--(2)16d THRU EA JÓIST OR BLOCK



JOISTS AND SHEATHING

—GYPCRETE TOPPING PER PLAN

PER PLAN



WHERE E

WHERE BEAM CONTINUES

Sheet Contents

ROOF FRAMING AT INTERIOR BEARING WALL

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

DROPPED STEEL HEADER AT EXTERIOR WALL

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

S4.1

- DROPPED STEEL BEAM

HEADER PER PLAN

BEAM BEARING ON HSS COLUMN

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

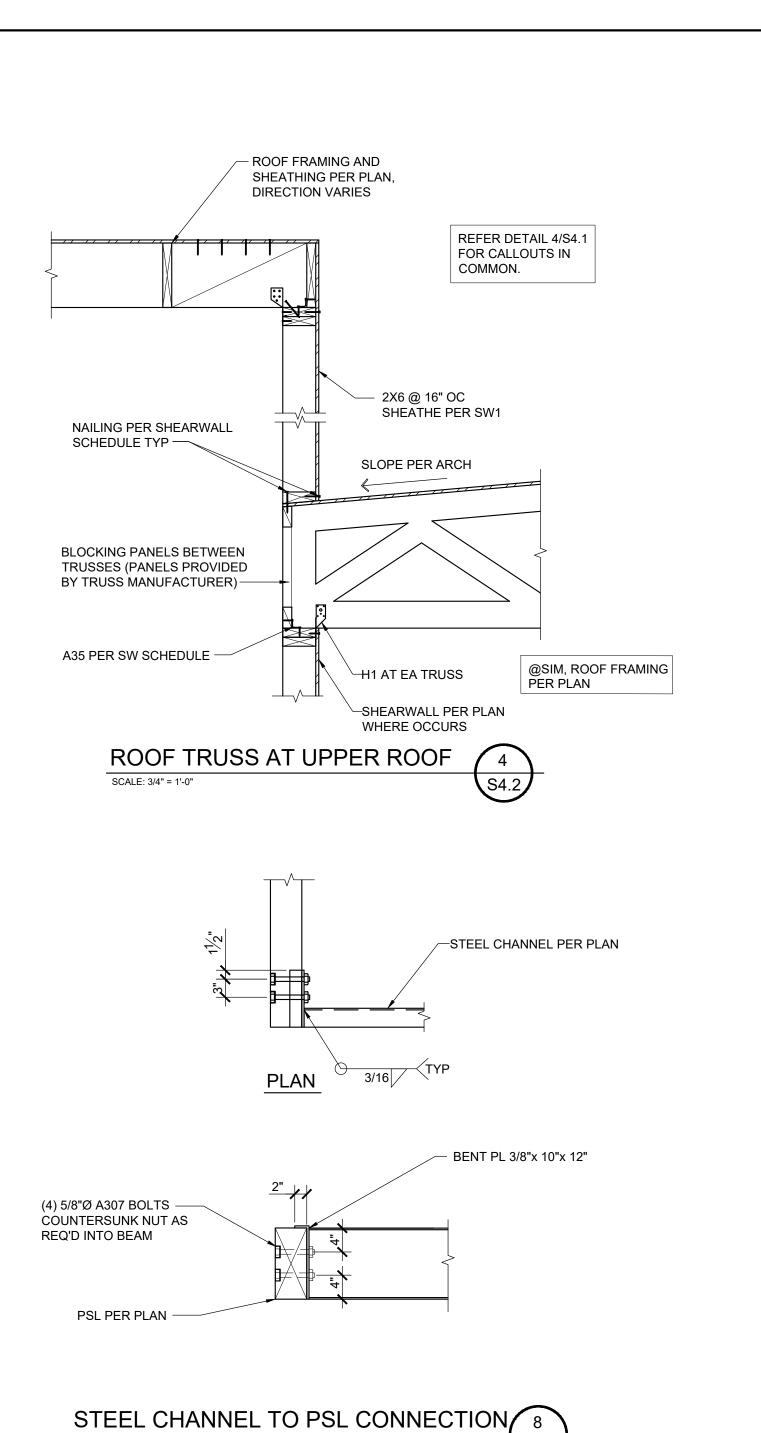
9 S4.1 Job No. 19-065

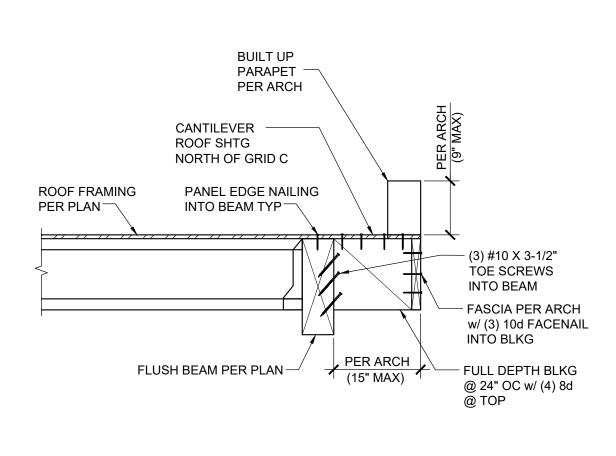
Sheet No.

S4.1

FRAMING

DETAILS





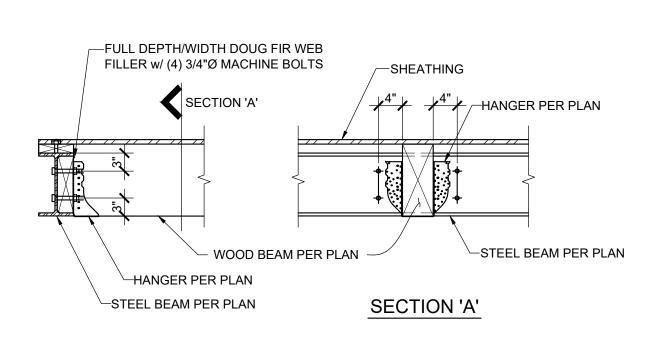
ROOF OVERHANG/ PSL BEAM @ ROOF

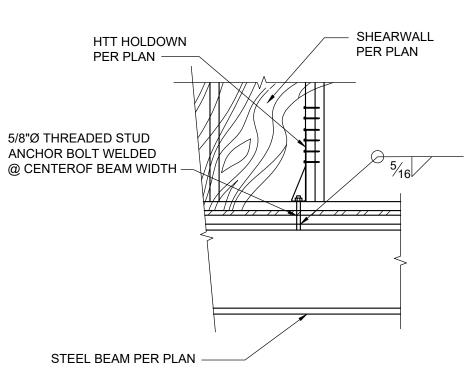
KNIFE PL 3/8" x 6" -

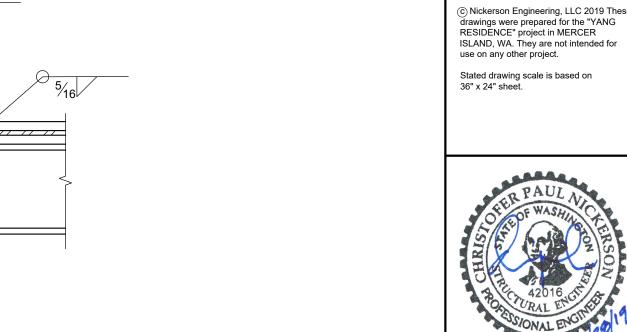
3/16

w/ (2) ³/₄" Ø M.B.

WF BEAM PER PLAN-







nickerson engineering

2221 Everett Ave #202 Everett, WA 98201 425.610.4425

MERCER WAY SLAND, WA 98040

7431 MERCEF

Issue

A 06.20.19 Preliminary 3 06.26.19 Preliminary

06.28.19 Building Permit

RESIDENCE

YANG

No. Date

Sheet Contents

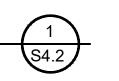
FRAMING

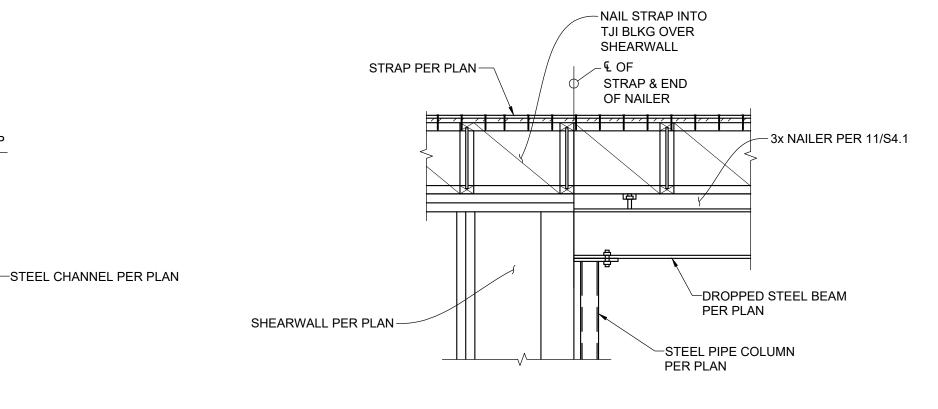
DETAILS

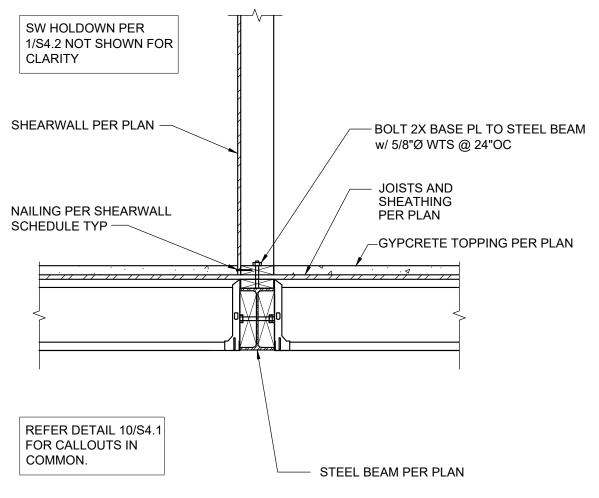
19-065

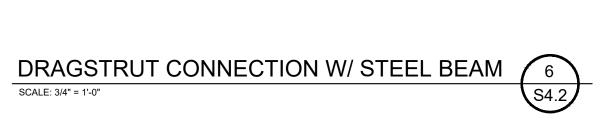




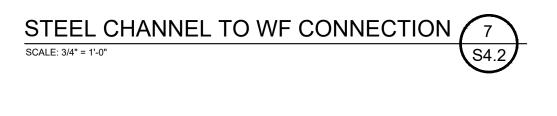














FLUSH OR RIM BEAM PER

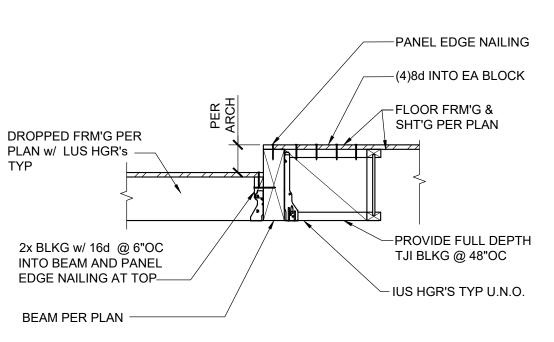
PLAN -

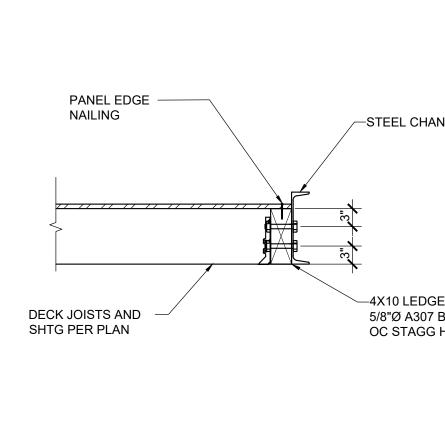
-(2)16d THRU EA

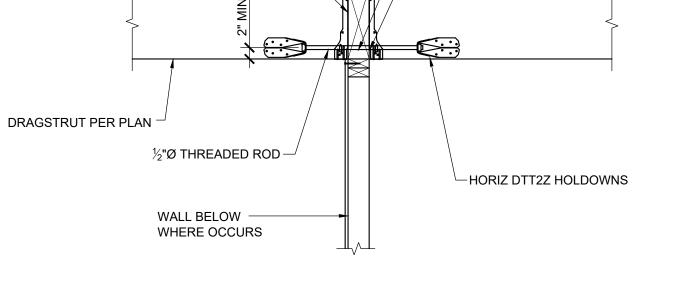
JOIST OR BLOCK

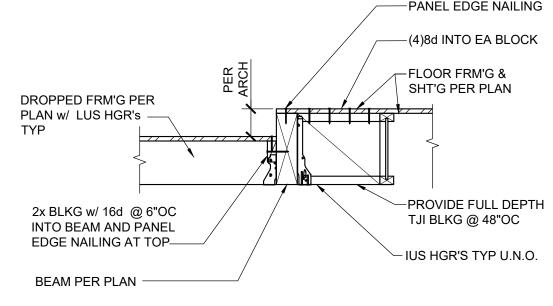
-(4)8d INTO EA BLOCK

—GYPCRETE TOPPING PER PLAN







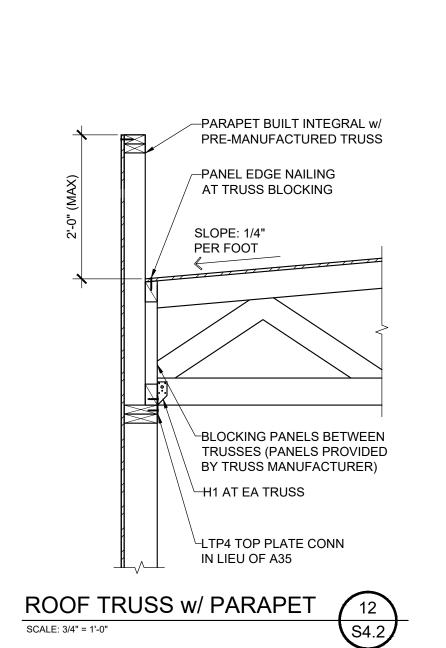








Job No. Sheet No.



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

