

Staircase GFA Modifier

\*Enter the actual room area

TOTAL Building Area

Square Feet

Square Feet

Square Feet

4501

**GROSS FLOOR AREA CALCULATIONS** 

C. Proposed Gross Floor Area

B. Allowed Gross Floor Area (refer to "Allowed GFA")

# NOTE:

Sq. Ft

Sq. Ft.

Sq. Ft.

Per MICC 19.02.020(F)(3)(d), this project shall remove Japanese knotweed (Polygonum cuspidatum) and Regulated Class A, Regulated Class B, and Regulated Class C weeds identified on the King County Noxious Weed list, as amended, from required landscaping areas established pursuant to subsection (F)(3)(a) of this section. New landscaping shall not incorporate any weeds identified on the King County Noxious Weed list, as amended. Provided, that removal shall not be required if the removal will result in increased slope instability or risk of landslide or erosion.

589°09 41"E

(3) PARKING SPACES)

TO DRIP LINE TYPES

SE 60TH STREET

EX GRAVEL

ANTONIO **D'AMBROSIO Architect** 

3426 GARDEN AVENUE NORTH RENTON, WASHINGON, 98056 206-310-4500

55MH RIM = 366.25 \* INVERSE = 358.35

(E.T.)

RADIUS

REGISTERED STATE OF WASHINGTON

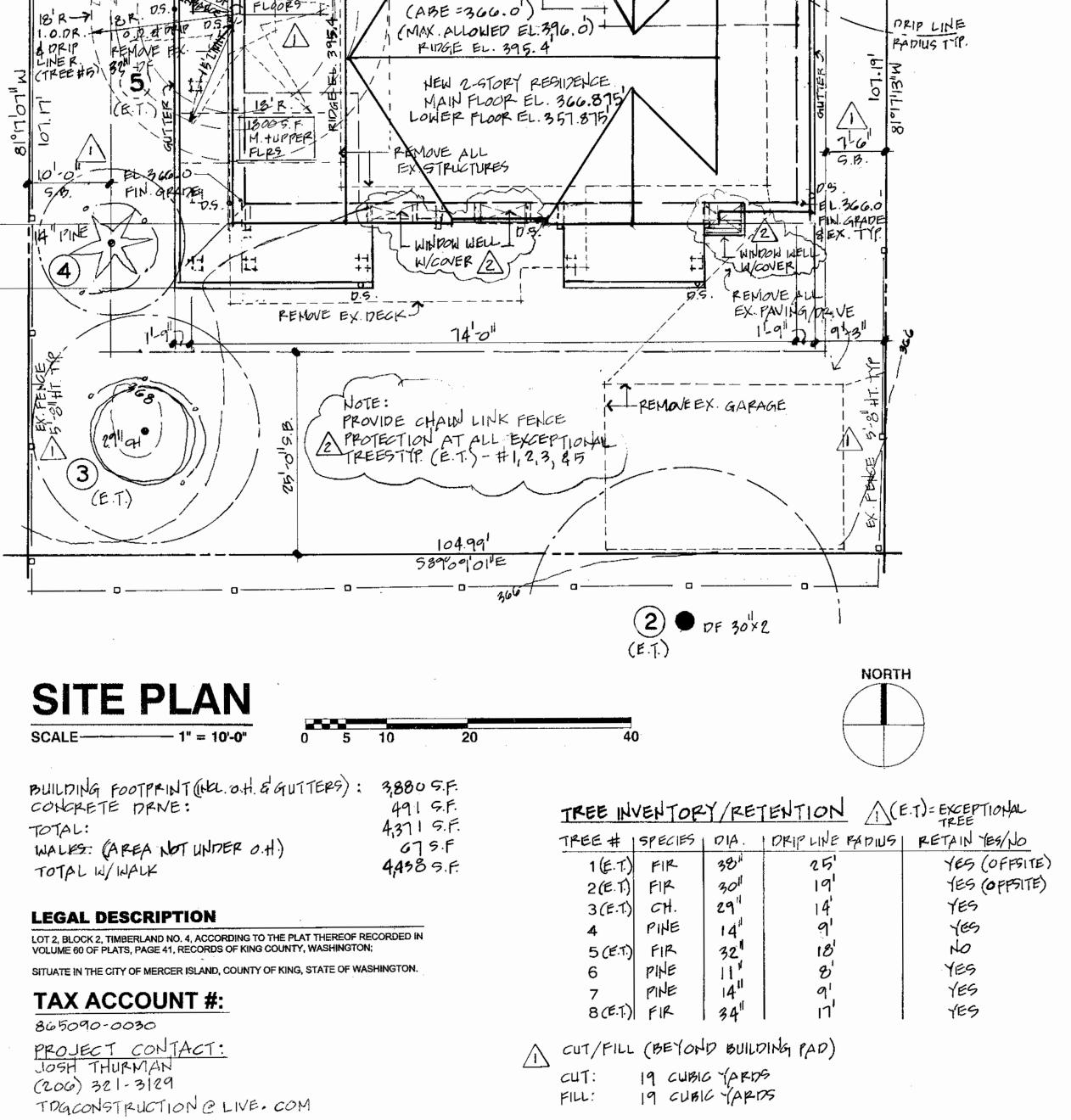
**Drawing Title** SITE PLAN

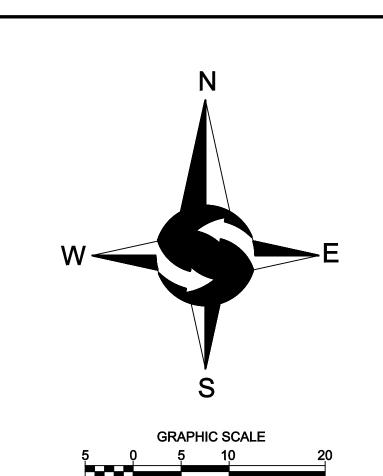
Drawn By: 1.0. Checked By: Approved By:

Issue Date: 1/17/20

Revisions: No. Description Date PRESUBMITTAL 2/23/20 PERMIT 2/22/21

Scale: AS NOTED





1INCH = 10 FT.

# LEGEND

	10		
•	FOUND MONUMENT AS DESCRIBED	— ОНР—	OVERHEAD POWER
0	FOUND REBAR AS DESCRIBED	— <b>они</b> —	OVERHEAD UTILITIES
×	TACK IN LEAD FOUND	-x–	CHAINLINK FENCE
•	SET 5/8" X 24" IRON ROD W/1" YELLOW PLASTIC CAP	— <b>—</b>	WOOD FENCE
P	POWER METER		CONCRETE WALL
Ø	UTILITY POLE		ROCKERY
	GAS METER		ASPHALT SURFACE
	SANITARY SEWER CLEANOUT		, (0, 1), (1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
	SANITARY SEWER MANHOLE	<u> </u>	CONCRETE SURFAC
$\bowtie$	WATER VALVE		GRAVEL SURFACE
Q	FIRE HYDRANT		0,01722 00117102
	WATER METER	CE	CEDAR
<del></del>	SIGN	DS	DECIDUOUS
—ss—	APPROXIMATE LOCATION SANITARY	SP	SPRUCE
	SEWER LINE	ВІ	BIRCH
—SD—	APPROXIMATE LOCATION STORM DRAIN LINE	PI	PINE
		* INDICA	TES MULTI-TRUNK

## **LEGAL DESCRIPTION**

LOT 2, BLOCK 2, TIMBERLAND NO. 4, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE 41, RECORDS OF KING COUNTY, WASHINGTON;

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

## **BASIS OF BEARINGS**

THE PLAT OF TIMBERLAND NO. 4, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE 41, RECORDS OF KING COUNTY, WASHINGTON.

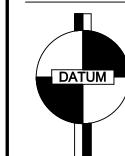
## **PROJECT INFORMATION**

SURVEYOR:	SITE SURVEYING, INC. 21923 NE 11TH ST SAMMAMISH, WA 98074 PHONE: 425.298.4412
PROPERTY OWNER:	ROBERT WHEELER 9027 SE 60TH STREET MERCER ISLAND, WA 98040
TAX PARCEL NUMBER:	865090-0030
PROJECT ADDRESS:	9027 SE 60TH STREET MERCER ISLAND, WA 98040
ZONING:	R-9.6
JURISDICTION:	CITY OF MERCER ISLAND
PARCEL ACREAGE:	11,253 S.F. (± 0.258 ACRES) AS SURVEYED

## **GENERAL NOTES**

- 1. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
- INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
- 3. THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN DECEMBER 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- 4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
- 5. ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE

## **VERTICAL DATUM & CONTOUR INTERVAL**

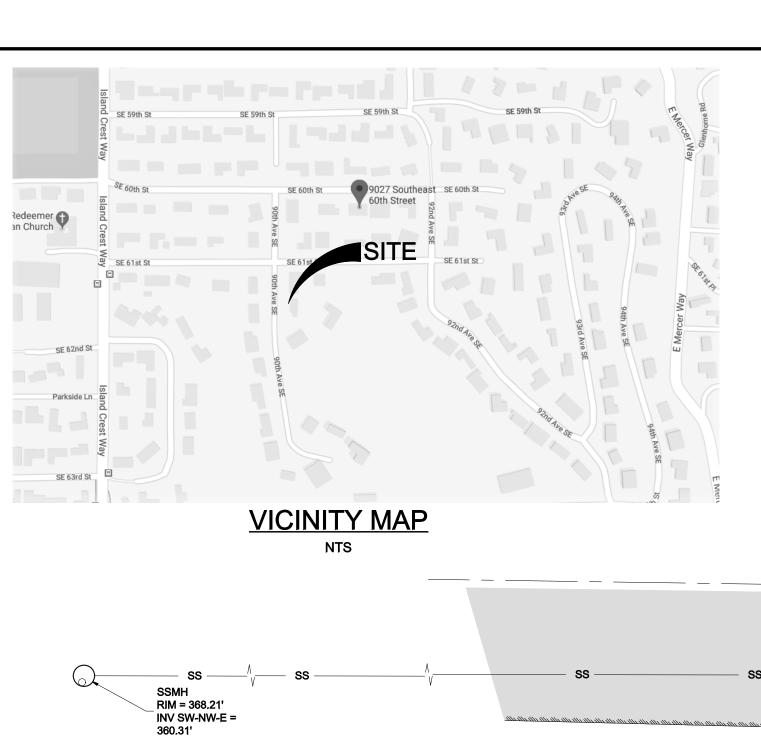


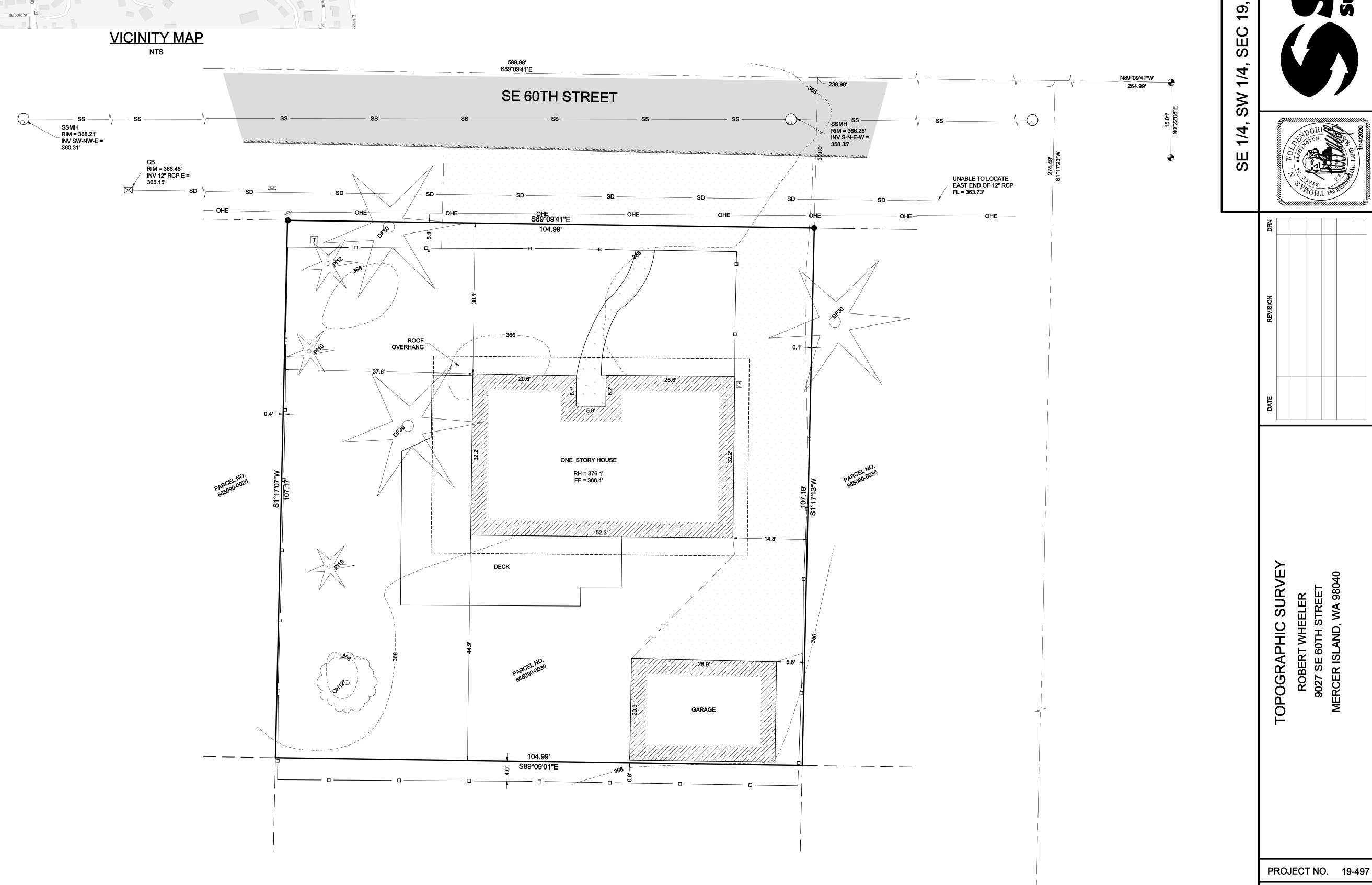
ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY WCCS SURVEY CONTROL DATABASE.

THE MARK IS A MONUMENT IN CASE AT THE EAST END OF SE 60TH STREET, ± 150 FEET EAST OF THE INTERSECTION OF 92ND AVENUE SE.

POINT ID NO. MI-1063; ELEVATION: 334.534 FEET - NAVD 88

2.0' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.





5E,

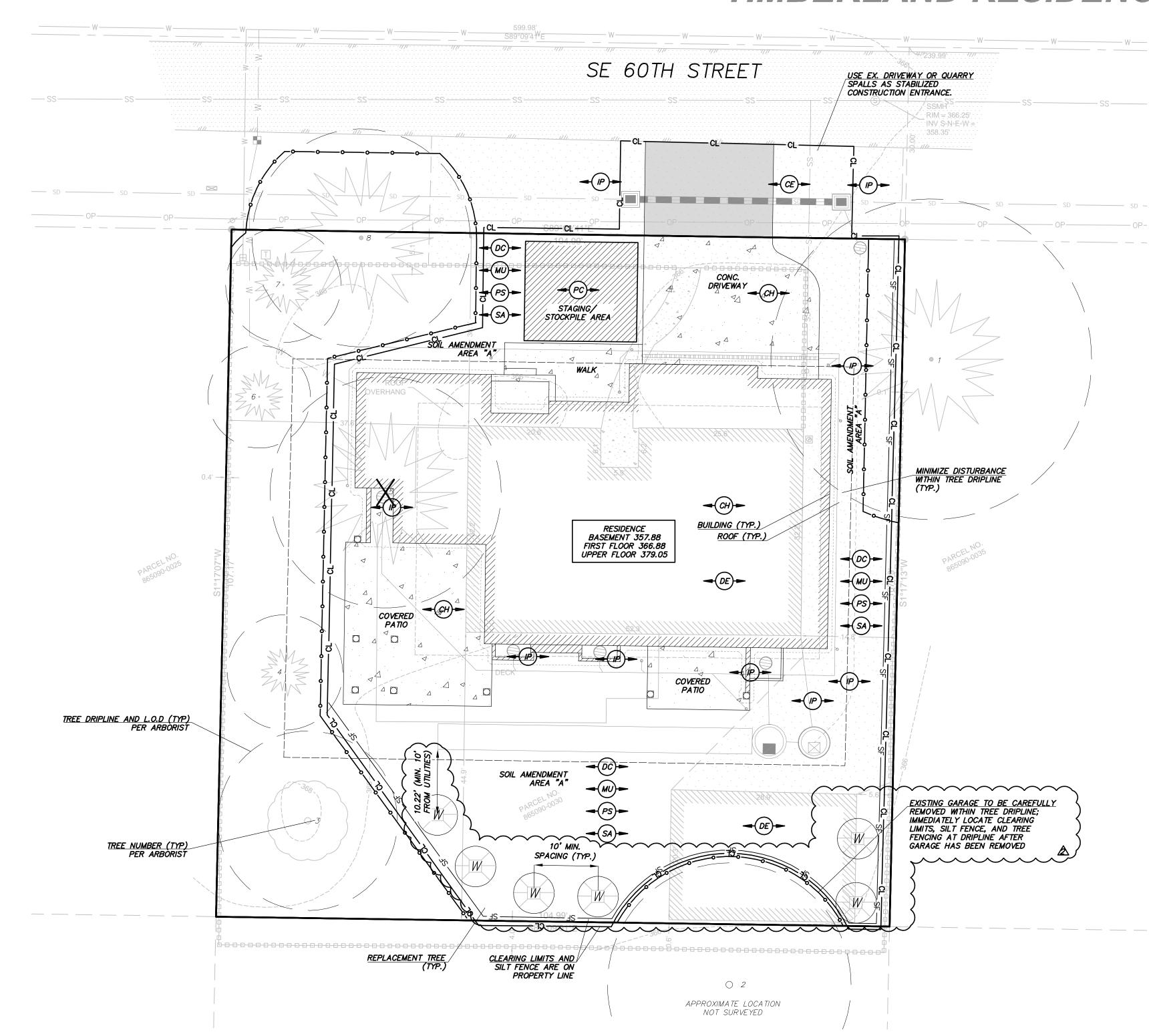
DRAWN BY: EFJ CHECKED BY: TNW

1 OF 1

SHEET

199,98' S89°08'21"E

# TIMBERLAND RESIDENCE



# SITE VOLUME CALCULATIONS

CUT VOLUME FILL VOLUME NET VOLUME (CU. YDS.) (CU. YDS.) (CU. YDS.) 559 CUT

ALL VOLUMES ARE APPROXIMATE AND ARE PROVIDED FOR PERMITTING PURPOSES AND REPRESENT FINISH GRADE TO EXISTING GRADE AS SHOWN. CONTRACTOR SHALL RELY ON HIS/HER OWN ESTIMATES FOR DETERMINING ACTUAL EARTHWORK QUANTITIES. THE VOLUMES DO NOT INCLUDE STRIPPING, STRUCTURAL EXCAVATION, EXPANSION/COMPACTION FACTOR OR ANY SOIL TYPE RESTRICTIONS.

## **GRADING NOTE:**

TOTAL AREA TO BE DISTURBED ON-SITE..............8,572 S.F. TOTAL AREA TO BE DISTURBED OFF-SITE...... 450 S.F. TOTAL AREA TO BE DISTURBED FOR PROJECT....9,020 S.F.

FILL SHALL CONSIST OF SUITABLE MATERIAL ORIGINATING FROM THE SITE OR FROM AN APPROVED SUPPLIER.

## GENERAL EROSION CONTROL NOTES:

ALL DISTURBED AREAS SHALL BE STABILIZED USING TYPICAL TESC BMP'S. THE LIMITS OF DISTURBANCE WILL BE DELINEATED WITH HIGH VISIBILITY CONSTRUCTION FENCING. DURING CONSTRUCTION SILT FENCES WILL BE PLACED DOWN SLOPE OF DISTURBED AREAS ALONG WITH STRAW MATTING, NETS, OR PLASTIC COVERING OVER EXPOSED SOIL OR STOCKPILES. TREES TO BE RETAINED WILL BE PROTECTED WITH HIGH VISIBILITY CONSTRUCTION FENCING.

AT THE COMPLETION OF THE PROJECT ALL DISTURBED AREAS WILL BE STABILIZED WITH COMPOST AMENDED SOILS AND HYDROSEEDING OR SOD.

## SOIL AMENDMENT NOTE:

AREA "A": STOCKPILE SITE DUFF AND TOPSOIL FOR ALL DISTURBED PERVIOUS AREAS AND REAPPLY WITH SOIL AMENDMENT AFTER GRADING AND CONSTRUCTION. MINIMUM SCARIFICATION DEPTH 8-INCHES. PROVIDE A TOTAL OF 24 C.Y. OF AMENDMENT OVER AN AREA OF 4,298 S.F.

## ON-SITE SOILS:

THE ENTIRE SITE CONTAINS ARENTS, ALDERWOOD MATERIAL (AMB) SOILS PER THE

## P.E. CERTIFICATION FOR SECTION B:

I HEREBY STATE THAT THIS CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN FOR 9027 SE 60TH STREET HAS BEEN PREPARED BY ME OR UNDER MY SUPERVISION AND MEETS THE STANDARD OF CARE AND EXPERTISE WHICH IS USUAL AND CUSTOMARY IN THIS COMMUNITY FOR PROFESSIONAL ENGINEERS. I UNDERSTAND THAT THE CITY OF MERCER ISLAND DOES NOT AND WILL NOT ASSUME LIABILITY FOR THE SUFFICIENCY, SUITABILITY, OR PERFORMANCE OF CONSTRUCTION SWPPP BMPS PREPARED BY ME.

#### TŘEĚ ŘEPLÁCĚMĚNŤ NOTE:

PER CITY OF MERCER ISLAND TREE REPLACEMENT STANDARDS, ANY EXCEPTIONAL TREE THAT IS TO BE REMOVED SHALL REQUIRE 6 REPLACEMENT TREES. TREE 5 IS THE ONLY TREE BEING REMOVED AS A PART OF THIS PROJECT, AND IS CONSIDERED AN EXCEPTIONAL TREE PER THE UPDATED ARBORIST REPORT. THIS REMOVED TREE WILL BE REPLACED WITH 6 TREES THAT WILL MEET THE MERCER ISLAND STANDARDS FOR TREE REPLACEMENT. THE LOCATION OF THESE REPLACEMENT TREES ARE SHOWN ON THIS SHEET. THE TREES SHALL BE 

## CONSTRUCTION SEQUENCE

DURING THE DURATION OF THE PROJECT.

1. ARRANGE AND ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY

- 2. FLAG OR FENCE CLEARING LIMITS. CALL ONE-CALL UTILITY LOCATE SERVICE PRIOR TO ANY EXCAVATION
- 4. GRADE ACCESS ROAD & CONSTRUCT/INSTALL ROCK CONSTRUCTION
- ENTRANCE IF NECESSARY. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
- INSTALL SHORING WALL CONSTRUCT RESIDENCE AND OTHER SITE IMPROVEMENTS. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OR
- COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. 9. MAINTAIN ACCESS TO OFF-SITE ROADS AND DRIVEWAYS AT ALL TIMES
- 10. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL
- IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
- 11. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH
- STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT. 12. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
- 13. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 14. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMPS REMOVED IF APPROPRIATE AFTER ACCEPTANCE BY

FOR ADDITIONAL TESC DETAILS REFER TO DOE 2012 SWMMWW CONSTRUCTION LIMITS, TO BE FLAGGED OR FENCED WHEN NO SILT FENCE IS PROPOSED (BMP C103) SILT FENCE IS PROPOSED (BMP C233) DEMO EXISTING IMPROVEMENTS STABILIZED CONSTRUCTION ENTRANCE (BMP C105) INLET PROTECTION (BMP C220) DUST CONTROL (BMP C140) MULCHING, MATTING, & COMPOST BLANKETS (BMP C121, BMP C125) PERMANENT SEEDING AND PLANTING (BMP C120) POST-CONSTRUCTION SOIL AMENDMENT QUALITY & DEPTH (BMP C120) CONCRETE HANDLING (BMP C151) PLASTIC COVERING (BMP C123) TREE TO BE REMOVED ~~~~~ TREE TO BE SAVED. PROVIDE TREE PROTECTION FENCING (4-FOOT CHAIN LINK

LOT 2, BLOCK 2, TIMBERLAND NO. 4, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE 41, RECORDS OF KING COUNTY, WASHINGTON; SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

- 1. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT
- 2. INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED
- 3. THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN DECEMBER 2019 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- 4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY
- 5. ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

## VERTICAL DATUM AND CONTOUR: (BY SURVEYOR)

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY WCCS SURVEY CONTROL DATABASE.

THE MARK IS A MONUMENT IN CASE AT THE EAST END OF SE 60TH STREET, ± 150 FEET EAST OF THE INTERSECTION OF 92ND AVENUE SE.

#### POINT ID NO. MI-1063; ELEVATION: 334.534 FEET - NAVD 88

2.0' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.

VICINITY MAP MERCER ISLAND, WA 98040 SITE AREA: 11,253 S.F. (0.258 AC)

LEGAL DESCRIPTION: (BY SURVEYOR)

## BASIS OF BEARINGS: (BY SURVEYOR)

THE PLAT OF TIMBERLAND NO. 4, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE 41, RECORDS OF KING COUNTY, WASHINGTON.

#### SURVEYOR'S NOTES: (BY SURVEYOR)

- ARE NOT SHOWN HEREON.
- STANDARDS SET BY WAC 332-130-090.

#### TESC LEGEND:

# PROPOSED USE:

JURISDICTION:

PROJECT CONTACTS: ROBERT WHEELER 9027 SE 60TH STREET MERCER ISLAND, WA 98040

CITY OF MERCER ISLAND

SINGLE FAMILY RESIDENCE

THURMAN DEVELOPMENT GROUP, INC. 2212 QUEEN ANNE AVE N. #273 SEATTLE, WA 98109 206.321.3129

CONTACT: JOSHUA H. THURMAN

ANTONIO D'AMBROSIO 3712 EAST MERCER WAY MERCER ISLAND, WA 98040

D.R. STRONG CONSULTING ENGINEERS, INC. 620 7TH AVE NE KIRKLAND, WASHINGTON 98033

206.232.6923

425.827.3063 CONTACT: YOSHIO L. PIEDISCALZI, P.E. YOSHIO.PIEDISCALZI@DRSTRONG.COM

SURVEYOR: SITE SURVEYING, INC. 21923 NE 11TH STREET SAMMAMISH, WASHINGTON 98074 425.298.4412 CONTACT: THOMAS N. WOLDENDORP

GEOTECH ENGINEER: GEOTECH CONSULTANTS, INC. 2401 10TH AVE EAST SEATTLE, WA 98102 425.747.5618

EASTSIDE TREE WORKS 206.396.9998

CONTACT: MARK R. MCGINNIS, P.E.

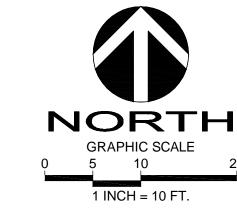
# CONTACT: RON PAQUETTE, CERTIFIED ARBORIST

DRAWING INDEX:

COVER SHEET, CSWPPP/ CMP AND TREE PLAN C2 2 OF 4 CSWPPP NOTES & DETAILS C3 3 OF 4 DRAINAGE PLAN C4 4 OF 4 UTILITY NOTES & DETAILS

# TREE INVENTORY/RETENTION REPORT: (BY ARBORIST)

Tree #	Species	Name	DBH (Over 24")	Height	Drip Line Radius	Condition	Exceptional Tree	L.O.D.	Retain Yes / No
1	Douglas Fir	Pseudotsuga menziesii	38"	100'	25'	Good	Yes	25'	Yes
2	Douglas Fir	Pseudotsuga menziesii	30" x 2	100′	19'	Good	Yes	19'	Yes
3	Cherry	Prunis avium	29"	30′	14'	Fair	Yes	14'	Yes
4	Pine	Pinus contorta	14"	45'	9'	Fair	No	9'	Yes
5	Douglas Fir	Pseudotsuga menziesii	32"	100′	18'	Good	Yes	18'	No
6	Pine	Pinus contorta	11"	45'	8'	Fair	No	8′	Yes
7	Pine	Pinus contorta	14"	45'	9′	Fair	No	9′	Yes
8	Douglas Fir	Pseudotsuga menziesii	34"	100′	17'	Good	Yes	17'	Yes





D.R. STRONG **CONSULTING ENGINEERS** 

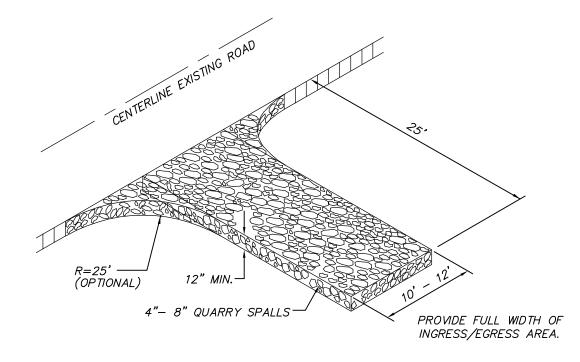
ENGINEERS PLANNERS SURVEYORS 620 - 7th AVENUE KIRKLAND, WA 98033 O 425.827.3063 F 425.827.2423



DRAFTED BY: **PFC** DESIGNED BY: DLR PROJECT ENGINEER: YLP DATE: 1/21/20 PROJECT NO.: 19106

DRAWING: C1 SHEET: 1 OF 4

# TIMBERLAND RESIDENCE



DRIVEWAYS SHALL BE PAVED TO THE EDGE OF R-O-W PRIOR TO INSTALLATION OF THE CONSTRUCTION ENTRANCE TO AVOID DAMAGING OF THE ROADWAY IT IS RECOMMENDED THAT THE

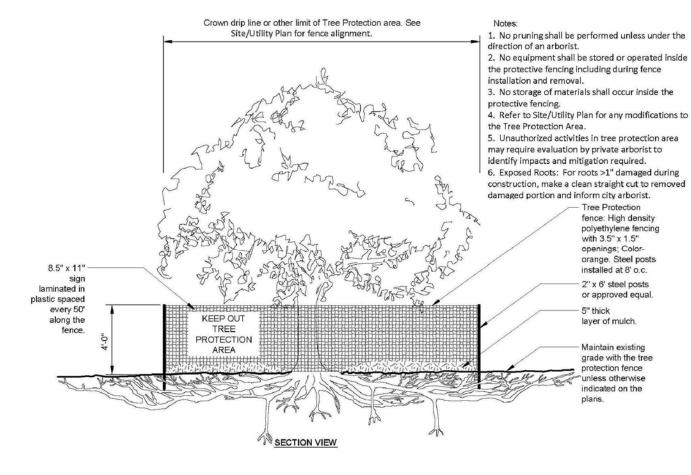
ENTRANCE BE CROWNED SO THAT RUNOFF DRAINS OFF THE PAD

GRAVEL CONSTRUCTION ENTRANCE

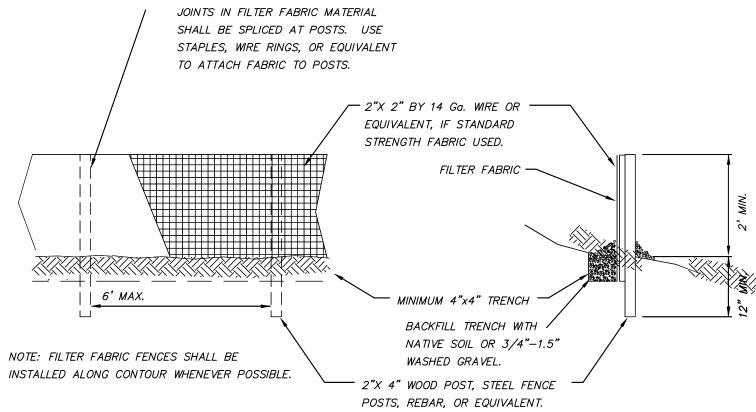
#### EROSION AND SEDIMENT CONTROL NOTES:

- 1. APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- 2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION. MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- 3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- 4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- 5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES,
- 6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE TESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY
- REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30). 7. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.). 8. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO
- ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- 9. ALL DISTURBED AREAS SHALL BE STABILIZED USING TYPICAL TESC BMP'S. THE LIMITS OF DISTURBANCE WILL BE DELINEATED WITH HIGH VISIBILITY CONSTRUCTION FENCING. DURING CONSTRUCTION SILT FENCES WILL BE PLACED DOWN SLOPE OF DISTURBED AREAS ALONG WITH STRAW MATTING, NETS, OR PLASTIC COVERING OVER EXPOSED SOIL OR STOCKPILES. TREES TO BE RETAINED WILL BE PROTECTED WITH HIGH VISIBILITY CONSTRUCTION
- 10. ALL SOIL STOCKPILES TO BE COVERED WITH PLASTIC SHEETING UNTIL SUCH TIME THAT THE SOIL IS EITHER USED OR REMOVED. PILES SHOULD BE SITUATED AND LOCATED SUCH THAT SEDIMENT DOES NOT RUN INTO THE STREET OR ONTO ADJOINING PROPERTIES.
- 11. ALL EXPOSED SOIL AREAS SHALL BE COVERED OR PROTECTED USING AN APPROPRIATE BMP. STABILIZE DENUDED AREAS OF THE SITE BY MULCHING, SEEDING. PLANTING. OR SODDING. 12. ALL ADJACENT PROPERTIES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION
- BY APPROPRIATE USE OF VEGETATION BUFFER STRIPS, SEDIMENT BARRIERS, OR FILTERS, DIKES, MULCHING, OR BY A COMBINATION OF THESE MEASURES AND OTHER APPROPRIATE BMP'S. 13. PROVIDE FOR PERIODIC STREET CLEANING TO REMOVE ANY SEDIMENT THAT MAY HAVE BEEN TRACKED OFF-SITE. SEDIMENT SHOULD BE REMOVED BY
- AREA WHERE IT WILL NOT BE RE-ERODED. 14. ALL INSTALLED EROSION AND SEDIMENT CONTROL BMP'S SHALL BE INSPECTED REGULARLY BY THE GENERAL CONTRACTOR ESPECIALLY AFTER ANY LARGE STORM. MAINTENANCE, INCLUDING REMOVAL AND PROPER DISPOSAL OF SEDIMENT SHOULD BE A NECESSARY TO INSURE THAT SEDIMENT AND EROSION IS CONTROLLED ON SITE.

SHOVELING OR SWEEPING AND CAREFULLY REMOVED TO A SUITABLE DISPOSAL



TREE PROTECTION FENCING



- 1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY. 2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- 3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT. 4. SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6 INCHES HIGH.
- 5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

# SILT FENCE DETAIL

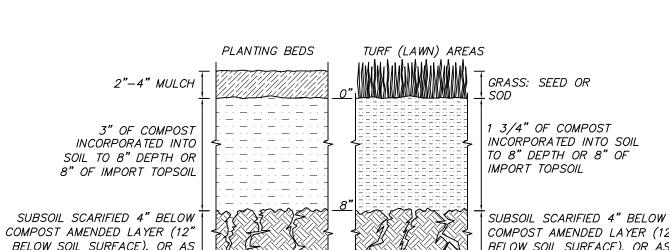
GRATE — - STANDARD STRENGTH FILTER FABRIC **FILTERED WATER** BASIN

NOTE: ONLY TO BE USED WHERE PONDING OF WATER ABOVE THE CATCH BASIN WILL NOT CAUSE TRAFFIC PROBLEMS AND WHERE OVERFLOW WILL NOR RESULT IN EROSION OF SLOPES.

CATCH BASIN INLET FILTER

## CATCH BASIN INSERT MAINTENANCE STANDARDS

- 1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON SITE OR HAULED OFF SITE.
- 2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE—THIRD OF THE AVAILABLE STORAGE.
  THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT
- 3. REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH
  BASINS PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL
  GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.



SOIL AMENDMENT

#### SOIL AMENDMENT NOTES

SOIL RETENTION: RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

\*SOIL QUALITY: ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

- 1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
- P. MULCH PLANTING BEDS WITH 2-4 INCHES OF ORGANIC MATERIAL 3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS: A. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP T7.30), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO
- NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION. B. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS. IN WAC 173-350-220.

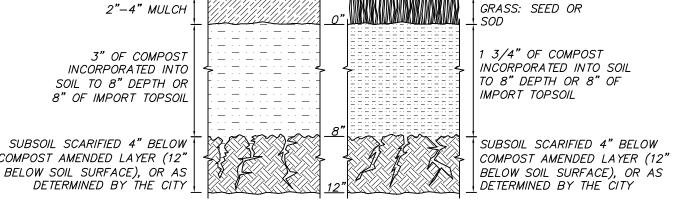
THE RESULTING SOIL SHOULD BE CONDUCIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED. •IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING

ONE OF THE METHODS LISTED BELOW: 1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING

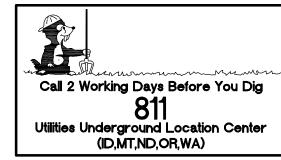
4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS.

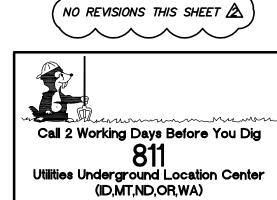
- CONSTRUCTION. 2. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT. 3. STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, FITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
- MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

\*ESTABLISH SOIL QUALITY AND DEPTH TOWARD THE END OF CONSTRUCTION AND ONCE ESTABLISHED, PROTECT FROM COMPACTION, SUCH AS FROM LARGE MACHINERY USE, AND FROM EROSION. PLANT VEGETATION AND MULCH THE AMENDED SOIL AREA AFTER INSTALLATION. \*LEAVE PLANT DEBRIS OR ITS EQUIVALENT ON THE SOIL SURFACE TO REPLENISH ORGANIC MATTER. \*REDUCE AND ADJUST, WHERE POSSIBLE, THE USE OF IRRIGATION, FERTILIZERS, HERBICIDES AND PESTICIDES, RATHER THAN CONTINUING TO IMPLEMENT FORMERLY ESTABLISHED PRACTICES.



NO REVISIONS THIS SHEET 🛭 🛭





D.R. STRONG

**CONSULTING ENGINEERS** ENGINEERS PLANNERS SURVEYORS

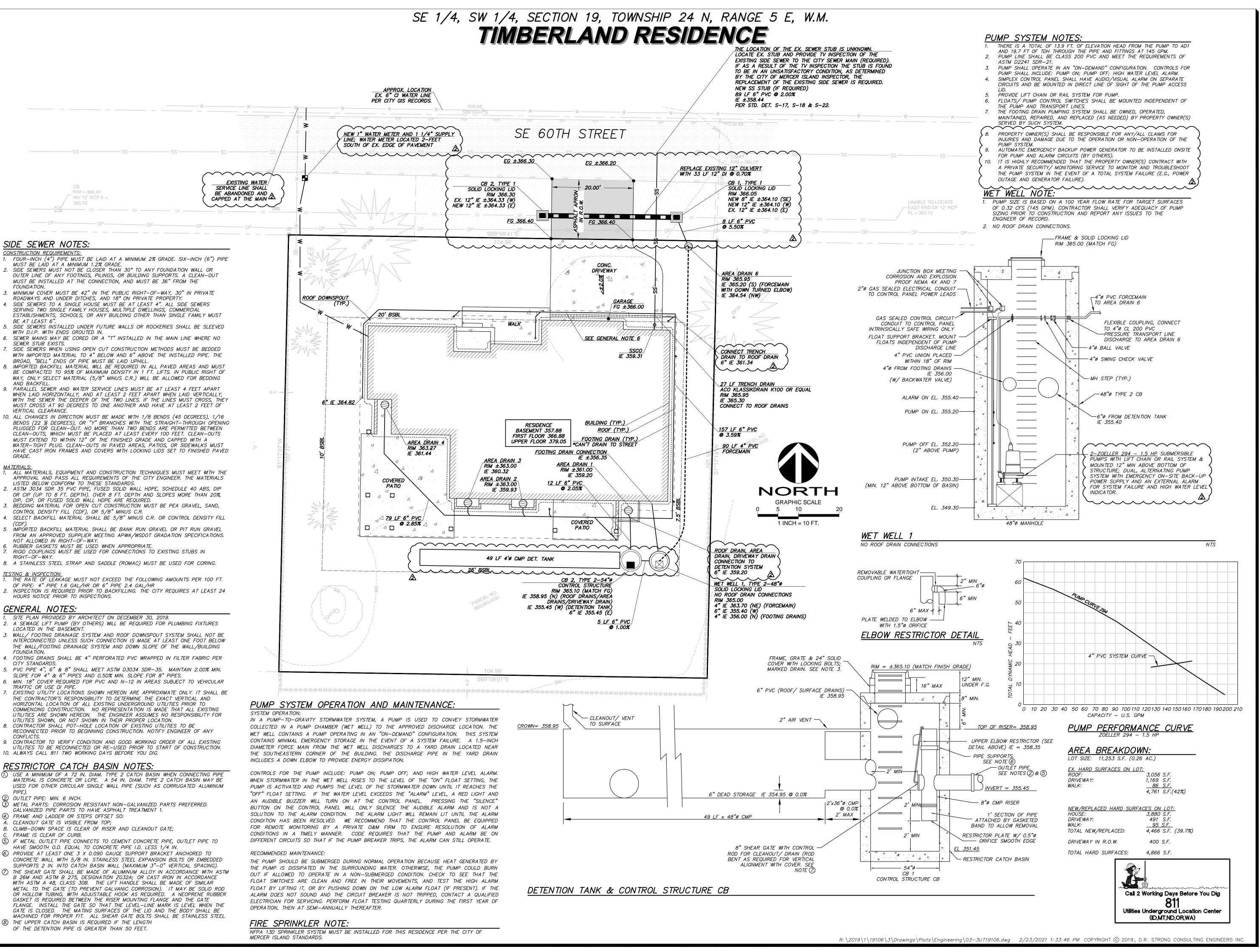
620 - 7th AVENUE KIRKLAND, WA 98033 O 425.827.3063 F 425.827.2423

DATE: 1/21/20 PROJECT NO.: 19106 DRAWING: C2

SHEET: **2** OF **4** 

PROJECT ENGINEER: YLP

DRAFTED BY: **PFC** DESIGNED BY: DLR



DRS

D.R. STRONG CONSULTING ENGINEERS

ENGINEERS PLANNERS SURVEYORS 620 - 7th AVENUE KIRKLAND, WA 98033 O 425.827.3063 F 425.827.2423

> RAINAGE PLAN 7 SE 60TH STREET 5R ISLAND, WA 98040

DRAINAGE PL 9027 SE 60TH ST MERCER ISLAND, V

12 QUEEN ANNE AVENUE N, # 2



DATE REVISION

\$\int\O 0.226.20 \quad \text{CITY COMMENTS} \quad 01.28.20 \quad \text{YLP} \\ \int\O 0.23.21 \quad \text{CITY COMMENTS} \quad \text{YLP} \\ \text{YLP}

DRAFTED BY: PFC

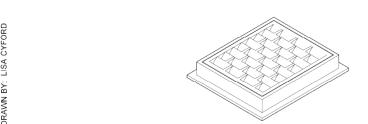
DESIGNED BY: DLR

PROJECT ENGINEER: YLP

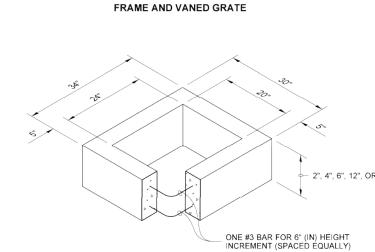
DATE: 1/21/20

PROJECT NO.: 19106

DRAWING: **C3**SHEET: **3** OF **4** 







RECTANGULAR ADJUSTMENT SECTION

PRECAST BASE SECTION

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

★ CORRUGATED POLYETHYLENE STORM SEWER PIPE

#3 BAR HOOP

ALTERNATIVE PRECAST BASE SECTION

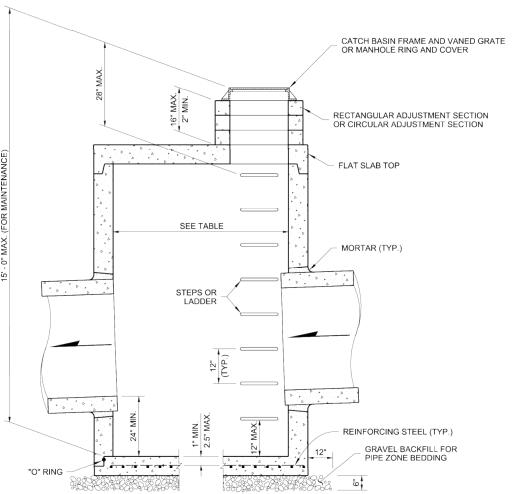
- 1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the
- The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- 3. The maximum depth from the finished grade to the lowest pipe invert
- 4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- 5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- 6. The opening shall be measured at the top of the **Precast Base Section**.
- 7. All pickup holes shall be grouted full after the basin has been placed.

**CATCH BASIN TYPE 1** 

STANDARD PLAN B-5.20-02

SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION Carpenter, Jeff Jan 26 2017 6:48 AM

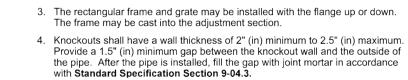
Washington State Department of Transportation



INTEGRAL BASE PRECAST WITH RISER

SEPARATE BASE

DETENTION VOLUME CALCULATION:



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.

CATCH BASIN DIMENSIONS						
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS		
48"	4"	6"	36"	8"		
54"	4.5"	8"	42"	8"		
60"	5"	8"	48"	8"		
72"	6"	8"	60"	12"		
84"	8"	12"	72"	12"		
96"	8"	12"	84"	12"		
120"	10"	12"	96"	12"		
144"	12"	12"	108"	12"		

PIPE ALLOWANCES									
CATCH	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER								
BASIN	CONCRETE	ALL	CPSSP 1	SOLID	PROFILE				
DIAMETER		METAL	PP (4)	WALL PVC <sup>2</sup>	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"				
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)) 4 Polypropylene Pipe (See Standard Specification Section 9-05.24)

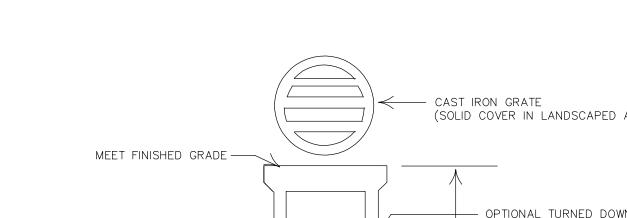


**CATCH BASIN TYPE 2** 

STANDARD PLAN B-10.20-02

Washington State Department of Transportation

SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION Carpenter, Jeff
Mar 2 2018 10:01 AM



PLAIN CONCRETE PIPE

POURED IN-PLACE CONCRETE OR PRE-CAST PLUG -

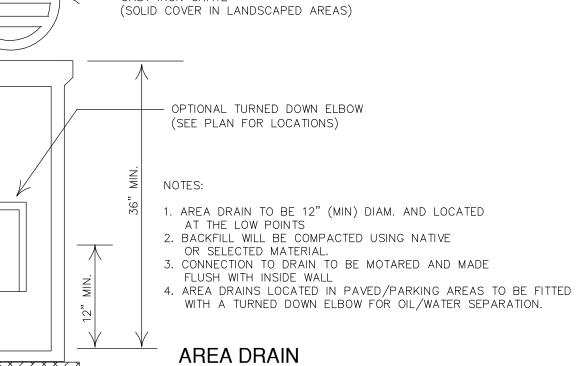
← 1% SLOPE MIN. —

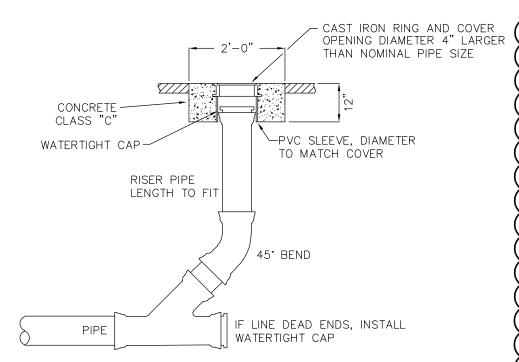
OUTLET PIPE PER PLAN -

OR APPROVED EQUAL

#3 BAR EACH WAY

#3 BAR EACH CORNER





CLEAN OUT
NOT TO SCALE

100-year Peak I	Runoff Analysis									
Basin: Lot Area										
Design Storm	100			Table 3.2.1.	B Coefficie	nts for the	Rational N	/lethod "iR	" Equation	
Р	3.9	from Isopluvials			100 year	50 year	25 year	10 year	5 year	2 year
Land Cover 1	Lawns	pick from Land Cove	r List to Right	aR	2.61	2.75	2.66	2.44	2.33	1.58
Area 1	0.000	acres		bR	0.63	0.65	0.65	0.64	0.63	0.58
C 1	0.25									
Land Cover 2	Pavment & Roofs			Table 3.2.1.	A Runoff C	pefficients	;			
Area 2	0.112	acres		Land Cover		С				
C 2	0.9			Dense Fore	st	0.10				
Land Cover 3	Light Forest			Light Forest		0.15				
Area 3	0	acres		Pasture		0.20				
C 3	0.15			Lawns		0.25				
Area Total	0.112	acres		Playground	s	0.30				
aR	2.61			Gravel Area	as	0.80				
bR	0.63			Pavement 8	& Roofs	0.90				
Cc	0.90			Composite	Lots	0.48				
Tc	6.3	minutes								
iR	0.82									
IR	3.19									
Q100	0.32	cfs								

New and Replaced Impervious Surface Area (sf)		Detention Pipe Length (ft)		Lowest Orifice Diameter (in) <sup>(3)</sup>		Distance from Outlet Invert to Second Orifice (ft)		Second Orifice Diameter (in)	
	Detention Pipe Diameter (in)	B soils	C soils	B soils	C soils	B soils	C soils	B soils	C soils
	36"	30	22	0.5	0.5	2.2	2.0	0.5	0.8
500 to 1,000 sf	48"	18	11	0.5	0.5	3.3	3.2	0.9	0.8
	60"	11	7	0.5	0.5	4.2	3.4	0.5	0.6
A 2000 CAR OF A CONTRACTOR OF	36"	66	43	0.5	0.5	2.2	2.3	0.9	1.4
1,001 to 2,000 sf	48"	34	23	0.5	0.5	3.2	3.3	0.9	1.2
	60"	22	14	0.5	0.5	4.3	3.6	0.9	0.9
	36"	90	66	0.5	0.5	2.2	2.4	0.9	1.9
2,001 to 3,000 sf	48"	48	36	0.5	0.5	3.1	2.8	0.9	1.5
	60"	30	20	0.5	0.5	4.2	3.7	0.9	1.1
	36"	120	78	0.5	0.5	2.4	2.2	1.4	1.6
3,001 to 4,000 sf	48"	62	42	0.5	0.5	2.8	2.9	0.8	1.3
	60"	42	26	0.5	0.5	3.8	3.9	0.9	1.3
4,001 to 5,000 sf	36"	134	91	0.5	0.5	2.8	2.2	1.7	1.5
	48"	73	49	0.5	0.5	3.6	2.9	1.6	1.5
	60"	46	31	0.5	0.5	4.6	3.5	1.6	1.3
	36"	162	109	0.5	0.5	2.7	2.2	1.8	1.6
5,001 to 6,000 sf	48"	90	59	0.5	0.5	3.5	2.9	1.7	1.5
111 NACETOR	60"	54	37	0.5	0.5	4.6	3.6	1.6	1.4
55 55 55 55 55 55 55 55 55 56 56 56 56 5	36"	192	128	0.5	0.5	2.7	2.2	1.9	1.8
6,001 to 7,000 sf	48"	102	68	0.5	0.5	3.7	2.9	1.9	1.6
	60"	64	43	0.5	0.5	4.6	3.6	1.8	1.5
8	36"	216	146	0.5	0.5	2.8	2.2	2.0	1.9
7,001 to 8,000 sf	48"	119	79	0.5	0.5	3.8	2.9	2.2	1.7
	60"	73	49	0.5	0.5	4.5	3.6	2.0	1.6
-01	36"	228	155	0.5	0.5	2.8	2.2	2.1	1.9
8,001 to 8,500 sf <sup>(1)</sup>	48"	124	84	0.5	0.5	3.7	2.9	1.9	1.8
	60"	77	53	0.5	0.5	4.6	3.6	2.0	1.6
10127000 NOVEMBER 001700	36"	NA (1)	164	0.5	0.5	NA (1)	2.2	NA (1)	1.9
8,501 to 9,000 sf	48"	NA (1)	89	0.5	0.5	NA <sup>(1)</sup>	2.9	NA (1)	1.9
	60"	NA <sup>{1}</sup>	55	0.5	0.5	NA (1)	3.6	NA (1)	1.7
1111	36"	NA (1)	174	0.5	0.5	NA (1)	2.2	NA (1)	2.1
9,001 to 9,500 sf <sup>(2)</sup>	48"	NA (1)	94	0.5	0.5	NA (1)	2.9	NA (1)	2.0
	60"	NA (1)	58	0.5	0.5	NA (1)	3.7	NA (1)	1.7

Call 2 Working Days Before You Dig **Utilities Underground Location Center** (ID,MT,ND,OR,WA)

CONSULTING ENGINEERS INC

D.R. STRONG CONSULTING ENGINEERS ENGINEERS PLANNERS SURVEYORS 620 - 7th AVENUE KIRKLAND, WA 98033 O 425.827.3063 F 425.827.2423



DRAFTED BY: **PFC** DESIGNED BY: DLR PROJECT ENGINEER: YLP DATE: 1/21/20 PROJECT NO.: 19106

DRAWING: C4 SHEET: 4 OF 4

#### **GENERAL NOTES**

#### CODE

All materials, workmanship and construction shall conform to the 2015 Edition of the I.B.C. / I.R.C. Building Code requirements and all applicable codes and authorities having jurisdiction.

#### BUILDING

Type VB	Site Class: D2
Occupancy Group: R-3	Mind Exposure: B (110 MPH)

Contractor shall verify all dimensions and conditions in the field, provide temporary bracing as required until all permanent connections and stiffenings have been installed. If is the contractor's responsibility to identify all discrepancies or confusions to the designer at the time they are noted.

#### **FOUNDATION**

Unless a soils investigation by a qualified soils engineer is provided, foundation design is based on an assumed average soil bearing of 1500 PSF. Exterior footings shall bear 1'-6" (minimum) below finished grade. All footings to bear on firm undisturbed earth below organic surface soils. Backfill to be thoroughly compacted per Specifications. Provide 2 #4 (minimum) continuous bottom of all walls and footings.

#### CONCRETE

	PSI	MINIMUM	
CLASS AND USE	fic	SLUMP	SACKS/C.Y.
A - Footings and foundations	3000	3 - 4	5-1/2
B - Slabs on grade	2500	3 - 4	5-1/2

Note: 3000 PSI concrete is for weathering purposes only. No special inspection required.

- Air-entraining agent (5% to 7%) to be used in all concrete flatwork exposed to weather.
- 2. Pozzolith 300 series (4 oz. per 100# of cement) to be used in all concrete.
- 3. Mix may be designed in accordance with the provisions the IBC/IRC.
- 4. Water cement ratio per IBC/IRC.

## REINFORCING STEEL

ASTM A615 grade 40, reinforcing steel details shall be prepared by an experienced detailer approved by the Designer and conform to standard practice outlined in ACI 318-14. Note: Grade 40 for #4 bars and smaller, grade 60 for #5 bars and larger.

CONCRETE COVER OF REINFORCING

- Concrete poured against earth.
- Formed concrete with earth backfill.
- Beams and columns (stirrups, ties) walls exposed to weather, slabs on moisture barrier
- Walls, Inside face.

Lap column verticals, Class "A" concrete and masonry column and wall verticals 40 diameters (2' min.). Lap all other reinforcing 30 diameters (2' min). Splices at tension regions shall not be permitted.

## FRAMING

All framing to comply with IBC Chapter 23. Nail sizes and spacing to conform to IBC Table 2304.10.1

All wood in contact with concrete to be pressure treated. All metal fasteners, hangers, straps, and miscellaneous hardware that comes in contact with pressure treated lumber shall be "Simpson Z Max" or equal (G185), hot dipped galvanized per ASTM A-153 or be stainless steel

Structural design is based on the following allowable stresses (units in PSI):

Timber connectors called out by letters and numbers shall be "Strong-Tie" by Simpson Company, as specified in their latest catalog.

If the contractor proposes the use of alternate nails or staples they shall submit specifications to the structural engineer (prior to contstruction) for review and approval.

## **LUMBER STRENGTHS**

IOICE DARTING		F۷	Fb	E
JOIST, RAFTERS: Høm-Fir #2		150	<i>850</i>	1300,000
BEAMS, HEADERS, LINT 4" Nominal Hem-Fli 4" Nominal Doug-F 6" Nominal Doug-F	* #2 ir #2	150 180 180	850 900 1,000	1300,000 1600,000 1,700,000
GLUE LAMINATED TIMB	ERS:			
Doug-Fir Larch	(2 <del>4</del> F-V3)	165	2400	1,800,000
-	(22F-V3)	165	2200	1,700,000
	(20F-V3)	165	2000	1,600,000
"FARALAM" (2.0E)		290	2900	2000000
LOADING:				
Roof.	IS PSE DEAD I	OAD + 33 PSF	FINFLOAD =	:48 PSF

Roof:	15 PSF DEAD LOAD + 33 PSF LIVE LOAD	≠ 440 H2F
Floors	10 PSF DEAD LOAD + 40 PSF LIVE LOAD	= 50 PSF
Celling:	5 PSF DEAD LOAD + 5 PSF LIVE LOAD	= IO PSF
Deck:	10 PSF DEAD LOAD + 60 PSF LIVE LOAD	= 70 PSF
Interior Partition:		IO PSF
Exterior Partition:		io PSF

Bolt heads and nuts bearing against wood to be provided with flat cut washers. Wood bearing on or installed within i" of masonry or concrete to be treated with an approved preservative. Solid blocking of not less than 2" thickness shall be provided at ends and at all support of joists and rafters. Between supports provide blocking or approved bridging at 8"-0" o.c. for floor joists, 10'-O" for roof joists. Typical sill boits to be 5/8" diameter at 4'-0" o.c.; embed 10". All metal framing anchors and hangers shown on drawlings shall be "Strong Tie Connectors" as manufactured by Simpson Company or approved equal.

Anchor bolts (J-bolts) to have 3"x3"x.229" plate washers, 7" min. embedment.

#### **WOOD TRUSSES**

Shall be factory fabricated trusses. Design and fabrication shall conform to the requirements of the International Building Code. Engineering design and shop drawings bearing the stamp of a professional engineer registered in the State of Washington and showing all details of construction including bracing.

Trusses shall be designed for uniform loading as follows:

33 PSF of tributary area 7 PSF of tributary area

Fabricator shall be approved by the Designer.

#### STRUCTURAL GLUE-LAMINATED TIMBER

Glue 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. Fy=165 PSI. All cantilevered beams shall be Douglas Fir combination 24F-V8, Fb=2400 PSI, Fy=165 PSI. Camber all simple span glulam beams to 2,000' radius, unless shown otherwise on plans. Glulam columns shall be douglas fir combination No. 5, Fc=2400 PSI, E=2,000,000 PSI.

#### **PLYWOOD**

Each sheet shall bear the trademark of the American Plywood Association. All grading shall conform to PS I. Use thickness and nailing as shown on the drawings. All Plywood shall be C-D interior grade with exterior glue. Except as otherwise shown or noted, provide 8d at 6" on cneter o supported panel edges and 8d at 12" on center on other supporting members for walls, roof and floors.

Roof Diaphragm: i/2" plywood (panel Index = 24/16), with 8d nails at 6" o.c. at supported panel and at 12" o.c. at field (typical unless noted otherwise).

Floor Diaphragm: 3/4" plywood (panel index = 24/16) with IOd nails at 6" o.c. at supported panel edges and at 12" o.c. at field (typical unless noted otherwise on plan). Optional to use 0.148 diameter P-nails in lieu of IOd nails.

#### STRUCTURAL STEEL

Structural Grade ASTM A36, Fy = 36,000 psi. Pipe columns ASTM A53, grade B, Fy = 35,000 psi. Structural tubing columns ASTM A500, grade B, Fy = 46,000 psi. All steel except steel embedded in concrete shall be given one shop coat of approved paint. Welds to be 3/16" minimum continuous fillet by A.M.S. certified welders. Field connections not shown shall be bolted framed beam connections per AISC. All bolts to be A325. During erection, structural steel shall be secured from collapsing with temporary bracing. Where expansion anchors are specified, the contractor shall submit to the structural engineer a sample of the anchor to be used with laboratory data of pull-out and shear strength. Special inspections shall be required for all welding.

#### 2015 WASHINGTON ENERGY CODE

(EDITED FROM) CHAPTER 51-11 W.A.C. - EFFECTIVE JULY 1, 2016

PRESCRIPTIVE REQUIREMENTS FOR GROUP R OCCUPANCY - CLIMATE ZONE 5 AND MARINE 4

	GLAZING	GLAZING I	U-FACTOR				WALL	WALL INT.	WALL EXT.		SLAB
	AREA <sup>IQ</sup> : % OF FLOOR	VERTICAL	OVERHEAD II	DOOR U-FACTOR	CEILING <sup>2</sup>			BELOW GRADE <sup>4</sup>	BELOW GRADE <sup>4</sup>		ON GRADE <sup>6</sup>
	UNLIMITED	0.28	0.50	0.20	R - 49	R - 38	R - 21 INT. <sup>7</sup>	R - 21 TB	R - 10	R - 30 U=0.029	R - 10
L			<u> </u>			<u> </u>					

- O. NOMINAL R-VALUES ARE FOR WOOD FRAME ASSEMBLIES ONLY OR ASSEMBLIES BUILT IN ACCORDANCE WITH
- MINIMUM REQUIREMENTS FOR EACH OPTION LISTED. FOR EXAMPLE, IF A PROPOSED DESIGN HAS A GLAZING RATIO TO THE CONDITIONED FLOOR AREA OF 13%, IT SHALL COMPLY WITH ALL OF THE REGUIREMENTS OF THE 15% CILAZING OPTION (OR HIGHER), PROPOSED DESIGNS WHICH CANNOT MEET THE SPECIFIC REQUIREMENTS OF A LISTED OPTION ABOVE MAY CALCULATE COMPLIANCE BY CHAPTERS 4 OR 5 OF THIS CODE.
- 2. REQUIREMENT APPLIES TO ALL CEILINGS EXCEPT SINGLE RAFTER OR JOIST VAULTED CEILINGS. 'ADV' DENOTES ADVANCED FRAMED CEILING.
- 3. REQUIREMENT APPLICABLE ONLY TO SINGLE RAFTER OR JOIST VAULTED CEILINGS.
- 4. BELOW GRADE WALLS SHALL BE INSULATED EITHER ON THE EXTERIOR TO A MINIMUM OF R=10 CONTINUOUS. OR ON THE INTERIOR AS A FRAMED WALL. EXTERIOR INSULATION INSTALLED ON BELOW GRADE WALLS SHALL BE A MATER RESISTANT MATERIAL, MANUFACTURED FOR ITS INTENDED USE AND INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. SEE SECTION 602.2.
- 5. FLOORS OVER CRAWL SPACES OR EXPOSED TO AMBIENT AIR CONDITIONS.
- 6. REQUIRED SLAB PERIMETER INSULATION SHALL BE A WATER RESISTANT MATERIAL, MANUFACTURED FOR ITS INTENDED USE, AND INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS. SEE SECTION 602.4. FOR SLABS INSIDE A FOUNDATION WALL, THE INSULATION SHALL BE INSTALLED TO PROVIDE A THERMAL BREAK (TB) BETWEEN THE SLAB EDGE AND THE FOUNDATION. MONOLITHIC SLABS SHALL INCLUDE INSULATION, INSTALLED OUTSIDE THE FOUNDATION WALL, AND SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB FOR A MINIMUM OF 24 INCHES OR DOWNWARD AND THEN HORIZONTALLY FOR A MINIMUM COMBINED DISTANCE OF 24 INCHES. MONOLITHIC SLABS SHALL ALSO INCLUDE R-10 INSULATION UNDER THE NON-LOAD-BEARING PORTIONS OF THE
- 7. INT, DENOTES STANDARD FRAMING 16 INCHES ON CENTER WITH HEADERS INSULATED WITH A MINIMUM OF R-10
- 8. RESERVED
- 9. DOORS INCLUDING ALL FIRE DOORS, SHALL BE ASSIGNED DEFAULT U-FACTORS FROM TABLE 10-6C.
- IO. WHERE A MAXIMUM GLAZING AREA IS LISTED, THE TOTAL GLAZING AREA (COMBINED VERTICAL PLUS OVERHEAD) AS A PERCENT OF GROSS CONDITIONED FLOOR AREA SHALL BE LESS THAN OR EQUAL TO THAT VALUE. OVERHEAD GLAZING WITH U-FACTOR OF U.=035 OR LESS IS NOT INCLUDED IN GLAZING AREA
- II. OVERHEAD GLAZING SHALL HAVE U-FACTORS DETERMINED IN ACCORDANCE WITH NERC 100 OR AS SPECIFIED IN SECTION 502.1.5.
- 12. LOG AND SOLID TIMBER WALLS WITH A MINIMUM AVERAGE THICKNESS OF 3.5" ARE EXEMPT FROM THIS INSULATION REQUIREMENT.

## CERTIFICATE (MSEC R401.3)

A PERMANENT CERTIFICATE SHALL BE POSTED WITHIN 3 FEET OF THE ELECTRICAL DISTRIBUTION PANEL OR ON THE PANEL ITSELF. THE CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL AND LIST THE FOLLOWING: INSULATION R-VALUES FOR ALL BUILDING FRAMING AND FOUNDATION/SLAB COMPONENTS, DUCT INSULATION OUTSIDE CONDITIONED AREAS, GLAZING U VALUES AND/OR SHGC VALUES, TYPE AND EFFICIENCY OF HEATING/COOLING SYSTEM AND HEATER HEATING EQUIPMENT, DUCT LEAKAGE RATES INCLUDING TEST CONDITIONS PER WSEC 503.10,2 AND AIR LEAKAGE RESULTS IF A BLOWER DOOR TEST WAS CONDUCTED.

#### **GENERAL NOTES**

- COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO IRC / IBC ( 2015 EDITION).
- THE ARCHITECT SHALL BE THE INTERPRETER OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND THE JUDGE OF THE PERFORMANCE THEREUNDER BY BOTH THE OWNER AND THE CONTRACTOR.
- THESE DRAWINGS COVER THE FURNISHING AND INSTALLATION OF ALL MATERIALS AND WORK AS CALLED FOR ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS WHICH ARE BOUND SEPARATELY AND ARE PART OF THIS CONTRACT. STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAMINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS, EACH CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CHECKING WITH THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF THEIR WORK. ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL AND THE CONSULTING ENGINEER(S) DRAWINGS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION BY NOTIFICATION FOR CLARIFICATION, ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO ADDITIONAL EXPENSE TO THE OWNER
- DRAWINGS SHALL NOT BE USED FOR SCALING DIMENSIONS. CONTRACTORS SHALL USE DIMENSIONS SHOWN ON THE DRAWINGS AND ACTUAL FIELD MEASUREMENT. NOTIFY THE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.
- VERIFY ALL ROUGH IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT OR BY OTHERS, PRIOR TO INSTALLATION. NOTIFY ARCHITECT IF CONFLICT IS DISCOVERED.
- VERIFY SIZE AND LOCATION OF AND PROVIDE ALL OPENINGS THROUGH FLOORS AND WALLS, FURRING, ANCHORS, INSERTS, ROUGH BUCKS AND BACKING FOR SURFACE MOUNTING ITEMS. PROVIDE FURRING AS REQUIRED TO CONCEAL MECHANICAL AND ELECTRICAL IN ALL FINISHED
- REFER TO STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES, SCHEDULES AND SYMBOLS.
- THROUGHOUT THE PLANS ARE ABBREVIATIONS WHICH ARE COMMON USE. THE LIST OF ABBREVIATIONS PROVIDED IS NOT INTENDED TO BE COMPLETE OR REPRESENTATIVE OF CONDITIONS OR MATERIALS ACTUALLY USED ON THE PROJECT. THE ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.
- IO. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION WITH OTHER CONTRACTORS TO SECURE COMPLIANCE OF DRAWING AND SPECIFICATIONS AND THE ACCURATE LOCATION OF STRUCTURAL MEMBERS AND OPENINGS FOR MECHANICAL, ELECTRICAL, AND MISCELLANEOUS EQUIPMENT.
- IN CASE OF CONFLICT WHEREIN THE METHODS OR STANDARDS OF INSTALLATION OF THE MATERIALS SPECIFIED DO NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. NOTIFY THE ARCHITECT OF ALL CONFLICTS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. DO NOT PROCEED WITH WORK RELATION TO DISCREPANCIES UNTIL DISCREPANCIES ARE RESOLVED THEN APPROVED BY THE ARCHITECT.
- CONSULT WITH ARCHITECT REGARDING ANY SUSPECTED ERROR. OMISSIONS OR CHANGES ON PLANS BEFORE PROCEEDING WITH WORK.
- REPETITIVE FEATURES ARE OFTEN DRAWN ONLY ONCE AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL
- ALL PLAN DIMENSIONS ARE TO FACE OF STUDS OR FACE OF CONCRETE WALLS, ETC., U.N.O.
- PLANS ARE DRAWN ASSUMING THE FOLLOWING ROUGH OPENINGS: SWINGING DOORS: NOMINAL SIZE +2"

NOMINAL SIZE +1 1/2" BIFOLD DOORS: NOMINAL SIZE +O"

BI-PASS DOORS: NOMINAL SIZE +O" MINDONS:

VERIFY ALL ROUGH-IN DIMENSIONS.

- 18. FLOOR LINE REFERS TO TOP OF PLYWOOD SUBFLOOR.
- IQ. ALL FOUNDATION FOOTINGS ARE TO REST ON FIRM UNDISTURBED SOIL.
- 20. PROVIDE ADEQUATE BRACING AND/OR BLOCKING IN WALLS TO SUPPORT COUNTER, CABINETS, SHELVES, AND EQUIPMENT, ETC., AS REQUIRED.
- 21. PROVIDE GALVANIC INSULATION BETWEEN DISSIMILAR MATERIALS.

SUCH MANNER AS TO MAKE THEM WEATHERPROOF.

WHERE REQUIRED BY W.S.B.C. SECTION 2406.

OCCUPANCY BY ANY PERSON.

- 22. THE JUNCTION OF THE ROOF AND VERTICAL SURFACES SHALL BE FLASHED AND COUNTER FLASHED IN A MANNER TO MAKE THEM WEATHERPROOF.
- 23. ALL EXTERIOR WALL OPENINGS, FLASHING, EXPANSION JOINTS SHALL BE CONSTRUCTED IN
- 24. WHERE FLOOR DRAINS OR FLOOR SINKS OCCUR, ALL FINISH FLOORS SHALL SLOPE TO DRAIN, THE BASE OF WALLS AT ALL SLOPING FLOORS SHALL BE LEVEL.
- 25. THERE SHALL BE NO EXPOSED PIPE, CONDUITS, DUCTS, VENTS, ETC. ALL SUCH LINES SHALL BE CONCEALED OR FURRED AND FINISHED, UNLESS APPROVED OR NOTED
- OTHERWISE AS EXPOSED CONSTRUCTION ON DRAWINGS 26. ALL EGRESS MINDOMS (E.) TO HAVE NET 24" CLEAR OPENING HT., 20" MIN. NET CLEAR
- 27. CONTRACTORS SHALL VERIFY SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR AS WELL AS SHOP DRAWINGS AS APPROVED BY ARCHITECT BEFORE PROCEEDING WITH THE WORK.

OPENING WIDTH, MIN. NET CLEAR OPENING AREA OF 5.7 S.F. AND 44" MAX. SILL HT. TYP.

- 28. CONTRACTORS SHALL VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATION WITH EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK.
- 29. PROVIDE CAULKING BETWEEN SOLE PLATES AND SUBFLOOR AND BETWEEN RIM JOISTS AT BOTH TOP PLATE AND SUBFLOOR.

30. SAFETY GLAZING: WINDOW MANUFACTURER SHALL PROVIDE TEMPERED SAFETY GLAZING

- 31. THE ARCHITECT HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ARCHITECT SHALL NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE HIM RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR,
- 32. THE ARCHITECT HAS USED THAT DEGREE OF CARE SKILL ORDINARILY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY MEMBERS OF THE PROFESSION IN THIS LOCALE, AND NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED IS MADE IN CONNECTION WITH RENDERING OF PROFESSIONAL SERVICES.

SUBCONTRACTORS, SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISITS, TRAVEL, OR

33. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION.

ANTONIO D'AMBROSIO

> 3426 GARDEN AVENUE NORTH RENTON, WASHINGON, 98056

206-310-4500 email dambrosioarchitect@yahoo.com

ARCHITECT ANTONIO D'AMBROSIO STATE OF WASHINGTON

Drawing Title:

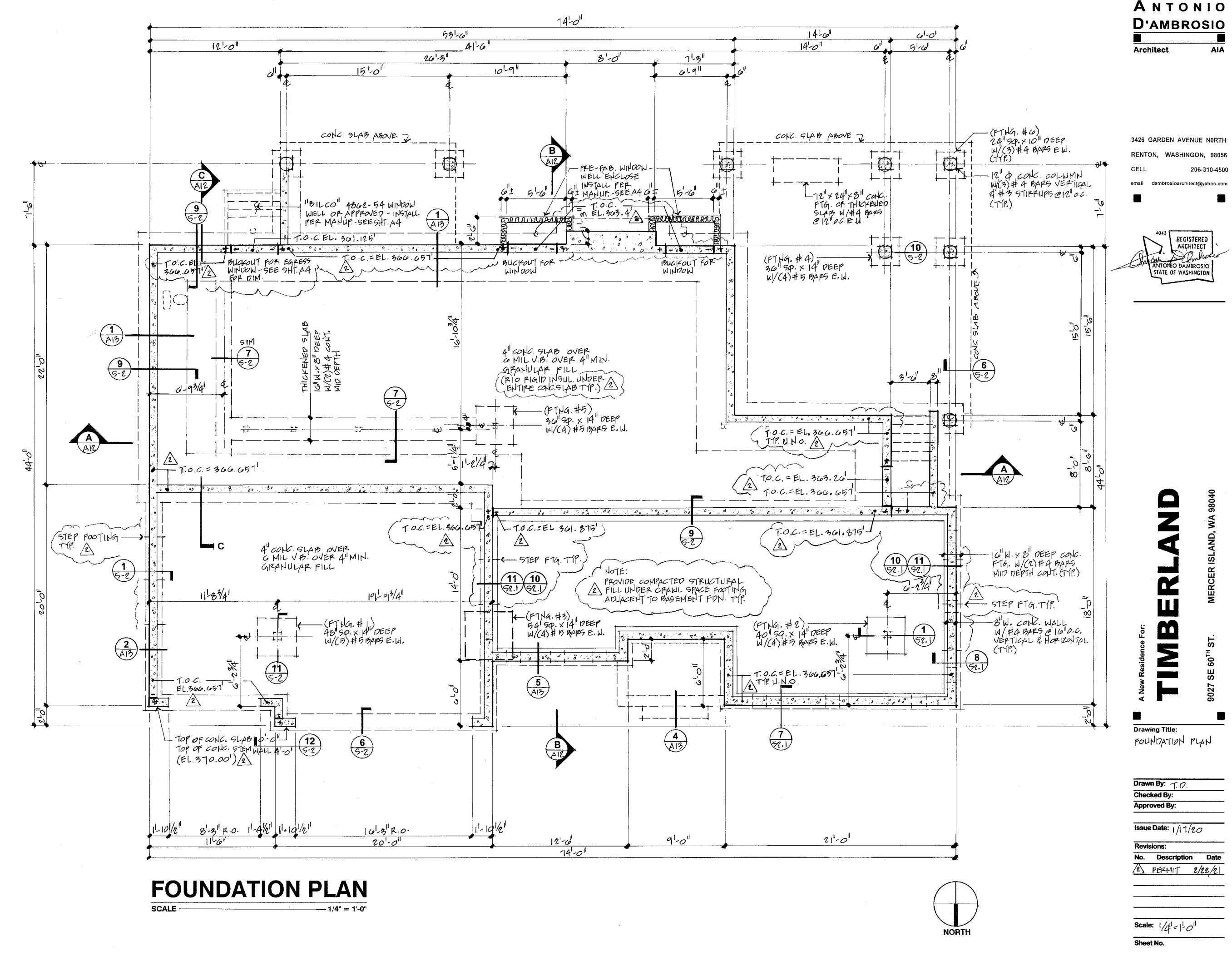
NOTES

Drawn By: M. D. 工力。 Checked By:

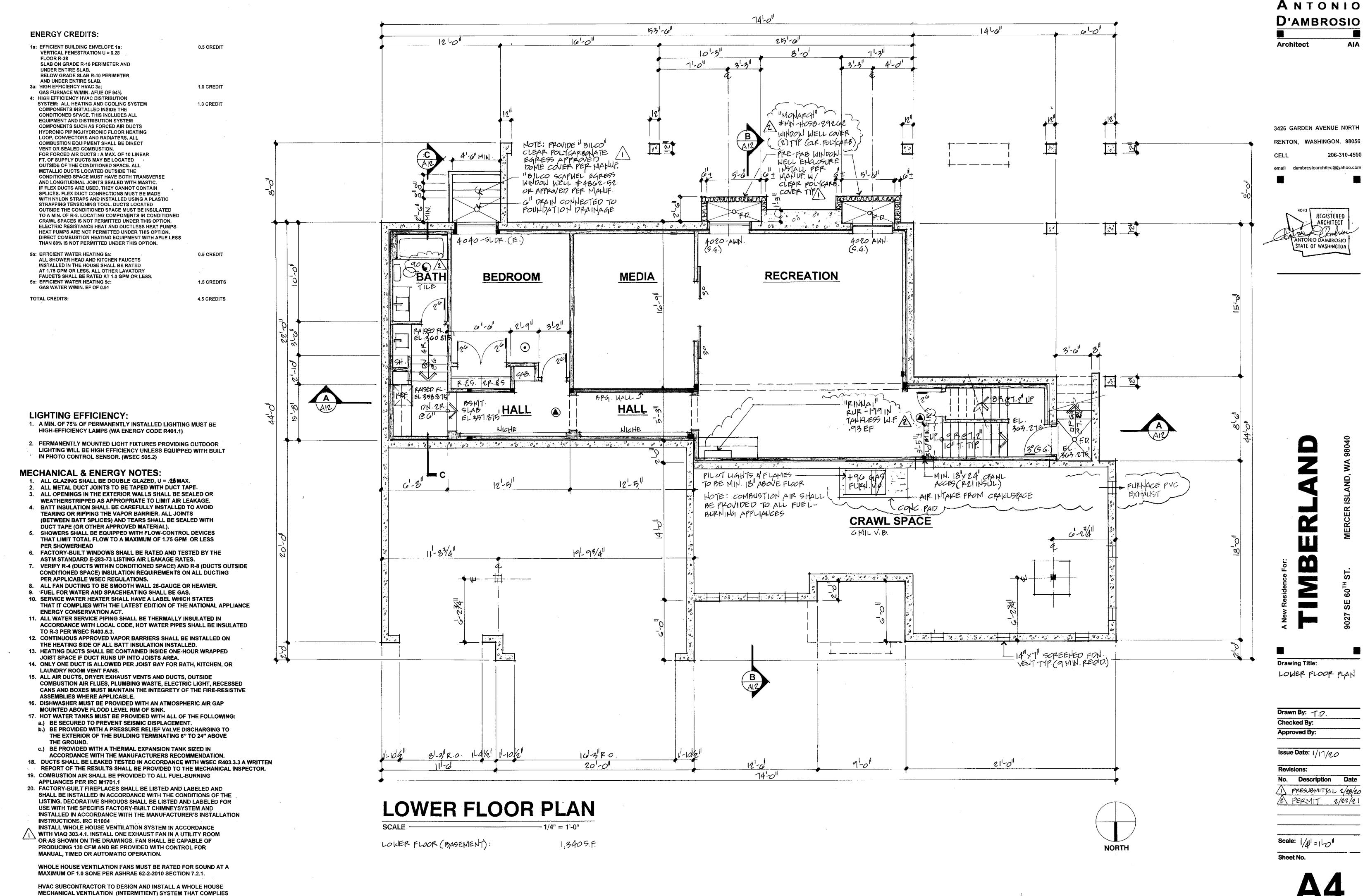
Approved By:

Description Date

TERMIT 2/22/2

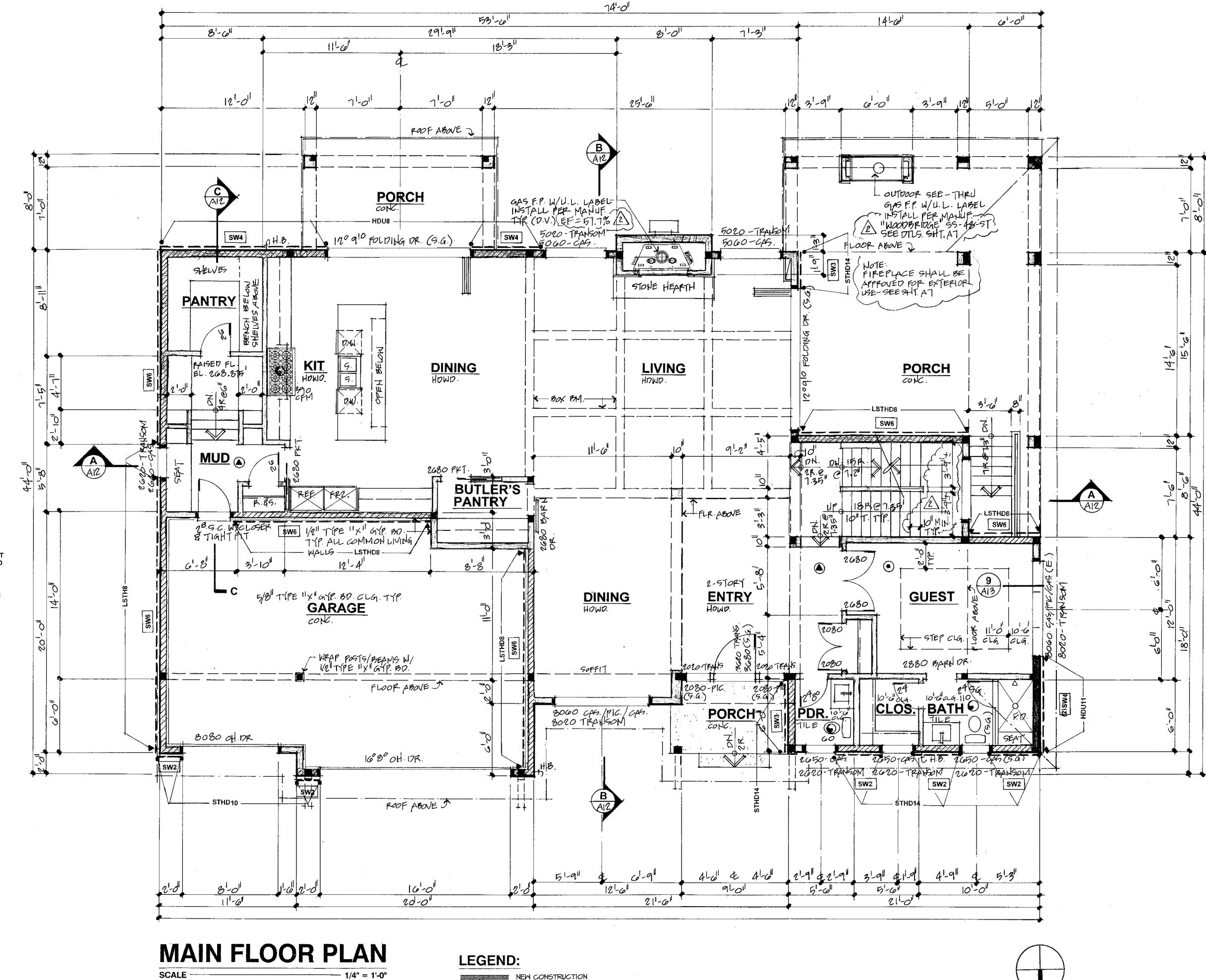


**A3** 



WITH ASHRAE STANDARD 62-2-2010, SECTIONS 4 AND 7 OR LOCAL **EQUIVALENT. USE ASHRAE STANDARD 62-2-2010, EQUATION 4.2 TO** 

**DEMONSTRAE ADEQUATE VENTILATION AIR FLOW.** 



SHEAR WALL (SEE SCHED, SHT, SI)

SAFETY GLASS

IIO V. SMOKE DETECTOR W BATTERY BACKUP INTERCONNECTED

COMBINATION SMOKE/CARBON MONOXIDE

●90 EXHAUST FAN

MAIN FLOOR:

TOTAL BUILDING:

REAR PORCH A:

REAR PORCH B:

TOTAL POPCHES:

TOTAL STRUCTURE:

FRONT PORCH:

GARAGE:

2000 9 F 6645F

2664 S.F.

128 5.5.

482 S.F.

64 5.F.

6745F

3338 S.F.

ANTONIO

D'AMBROSIO

3426 GARDEN AVENUE NORTH

RENTON, WASHINGON, 98056

REGISTERED ARCHITECT

STATE OF WASHINGTON

MAIN FLOOR PLAN

Orawn By: TO

Issue Date: 1/17/20

No. Description Date

2 PERMIT 2/22/21

Scale: 1/4" = 11-0"

Checked By: Approved By: 206-310-4500

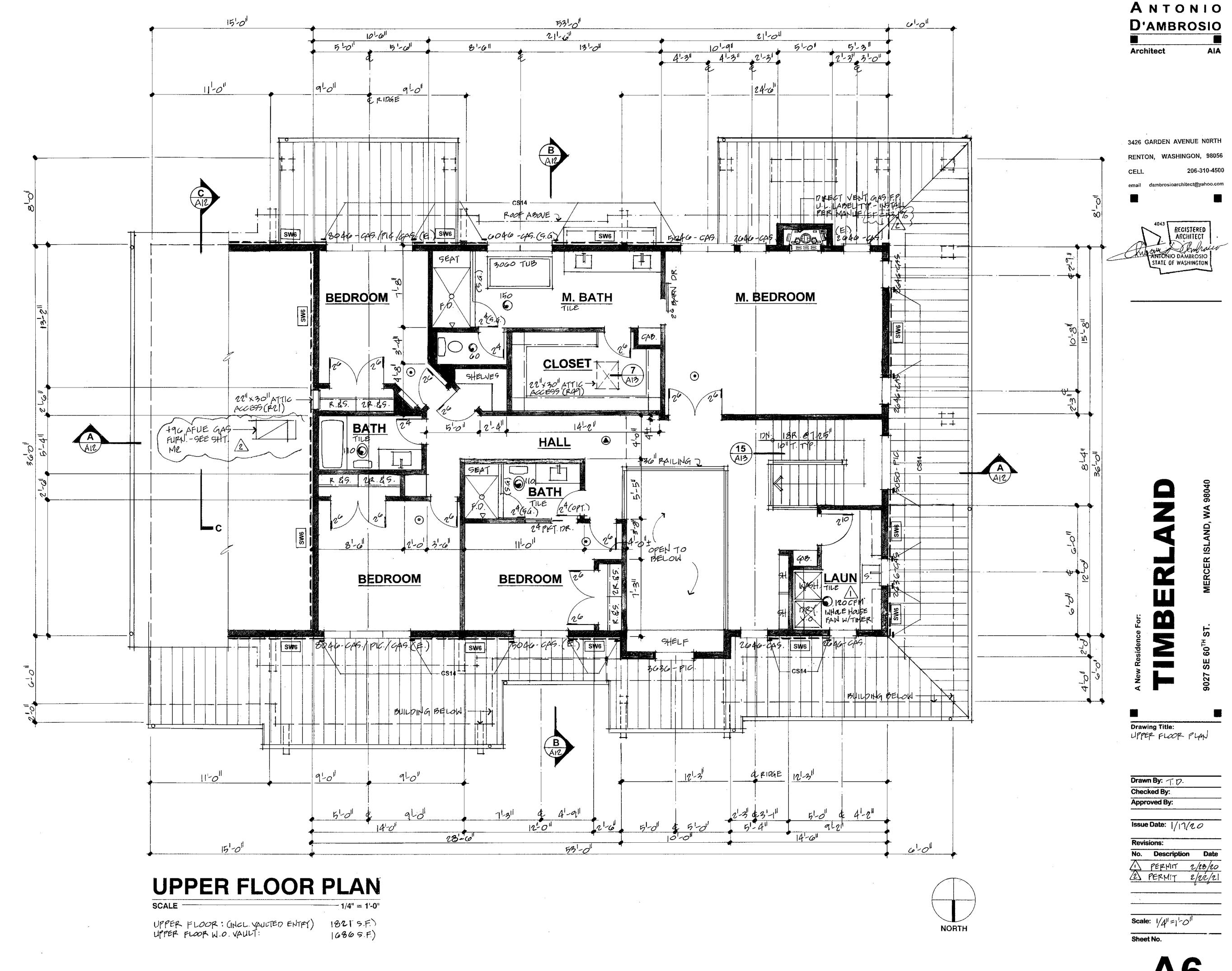
**Architect** 

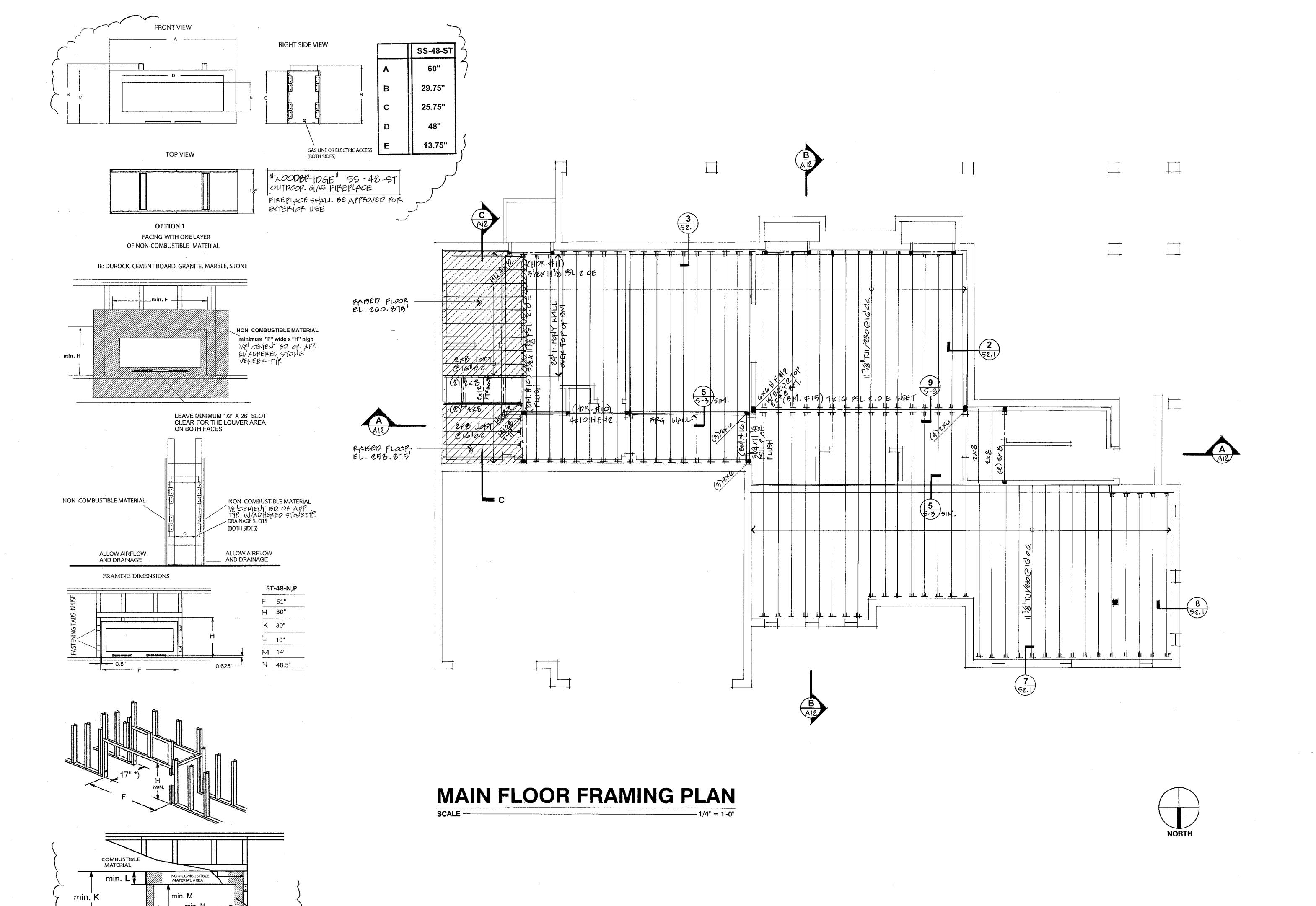
#### FLOOR PLAN NOTES:

- ALL HEADERS TO BE 4X8 MIN. U.N.O. SEE FRAMING PLAN.
- CONTRACTOR SHALL VERIFY TO INSPECTOR THAT ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING A 2001b. LOAD ON TOP OF RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC.
- ALL EGRESS WINDOWS (E.) TO HAVE NET 24" CLEAR OPENING HEIGHT, 20" NET CLEAR OPENING WIDTH, MIN. NET CLEAR
- OPENING AREA OF 5.7 S.F. AND 44" MAX. SILL HEIGHT TYP. FIREBLOCKING @ ALL PLUMBING PENETRATIONS.
- ALL EGRESS WINDOWS (E.) TO HAVE NET 24" CLEAR OPENING HEIGHT, 29" NET CLEAR OPENING WIDTH, MIN. NET CLEAR
- OPENING AREA OF 5.7 S.F. AND 44" MAX. SILL HEIGHT TYPICAL. UNIFORM RISERS @ ALL STAIRS.
- ALL WINDOWS ARE NOMINAL R.O. WIDTH AND HEIGHT, VERIFY
- WINDOW SIZES WITH MANUFACTURER.
- ALL WOOD IN CONTACT W/ CONCRETE TO BE P.T.
- ALL HEADERS IN EXTERIOR WALLS TO BE INSULATED WITH MIN. R10 INSULATION (EXCEPT @ FULL WALL CAVITY WIDTH HDRS.)
- CAULK AND WEATHERSTRIP ALL JOINTS AND OPENINGS PER WSEC.
- ALL DIMENSIONS TO FACE OF STUD.
- DENOTES SOLID BEARING UNDER CONCENTRATED LOAD, SEE FRAMING PLAN.
- PROVIDE 26 GA. GALVANIZED SHEET METAL FLASHING ABOVE WINDOW AND DOORS TYP. LAP BUILDING PAPER OVER
- SEE SHEET A2 FOR LUMBER GRADES AND STRUCTURAL/
- FRAMING NOTES. KITCHEN RANGE, DRYER, BATHROOM AND LAUNDRY ROOM VENTILATION DUCTS ARE TO HAVE SMOOTH NON-COMBUSTIBLE, NON-ABSORBENT SURFACE AND SHALL BE
- EQUIPPED W/BACKDRAFT DAMPERS. CLOTHES DRYER EXHAUST DUCTS SHALL NOT BE ASSEMBLED WITH METAL SCREWS OR OTHER FASTENING MEANS WHICH
- EXTEND INTO THE DUCT. ALL SHOWERS SHALL HAVE FLOW RESTRICTORS TO LIMIT WATER TO 1.75 GPM, PER WSEC.
- PROVIDE "DENSHIELD" TILE BACKER BOARD, OR APPROVED,
- AT ALL AREAS SUBJECT TO WATER SPLASH. FILL ALL EXISTING FRAMING CAVATIES WHICH ARE EXPOSED
- EXPOSED DURING CONSTRUCTION TO THE FULL DEPTH WITH BATT INSULATION OR INSULATION AN EQUIVALENT R-VALUE.
- ALL TOILETS TO BE MAX. 1.6 GALLONS/ FLUSH.
- SMOKE DETECTORS TO BE HARD WIRED W/ BATTERY BACKUP, INTERCONNECTED.
- THE POINT OF DISCHARGE OF EXHAUST FAN AIR SHALL BE AT LEAST 3' FROM ANY OPENING IN BLDG.

## **FIREBLOCKING IRC R302.11**

IN COMBUSTIBLE CONSTRUCTION FIREBLOCKING SHALL BE PROVIDED TO CUT OFF BOTH VERTICAL AND HORIZONTAL CONCEALED DRAFT OPENINGS AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES AND BETWEEN A TOP STORY AND THE ROOF SPACES. FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAMED CONSTRUCTION IN CONCEALED SPACES INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES, AROUND PENETRATIONS FOR MEP INSTALLTION AND OTHER LOCATIONS AS INDICATED IN IRC R302.1





ANTONIO **D'AMBROSIO** Architect

3426 GARDEN AVENUE NORTH RENTON, WASHINGON, 98056

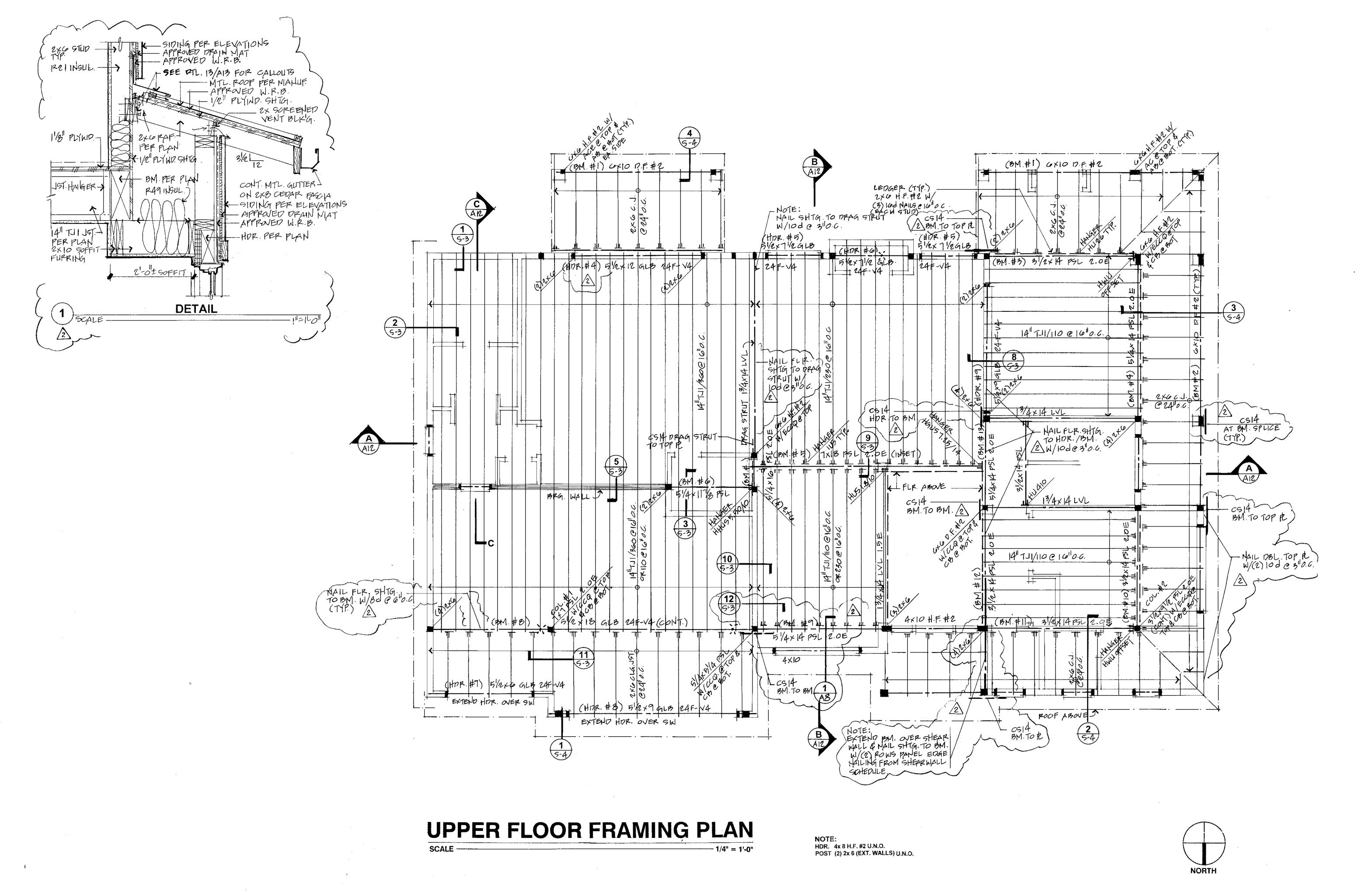


Drawing Title:
MAIN FLOOR FRAMING
PLAN

Checked By:

Issue Date: 1/17/20

No. Description Date



ANTONIO
D'AMBROSIO
Architect AIA

3426 GARDEN AVENUE NORTH RENTON, WASHINGON, 98056 CELL 206-310-450

email dambrosioarchitect@yahoo.

ARCHITECT

ARCHITECT

ANTONIO DAMBROSIO
STATE OF WASHINGTON

BERLAND

Drawing Title:

UPPER FLOOR
FRAMING PLAN

Drawn By: \(\tau\). Checked By:
Approved By:

Issue Date: 1/17/20

Paviolena

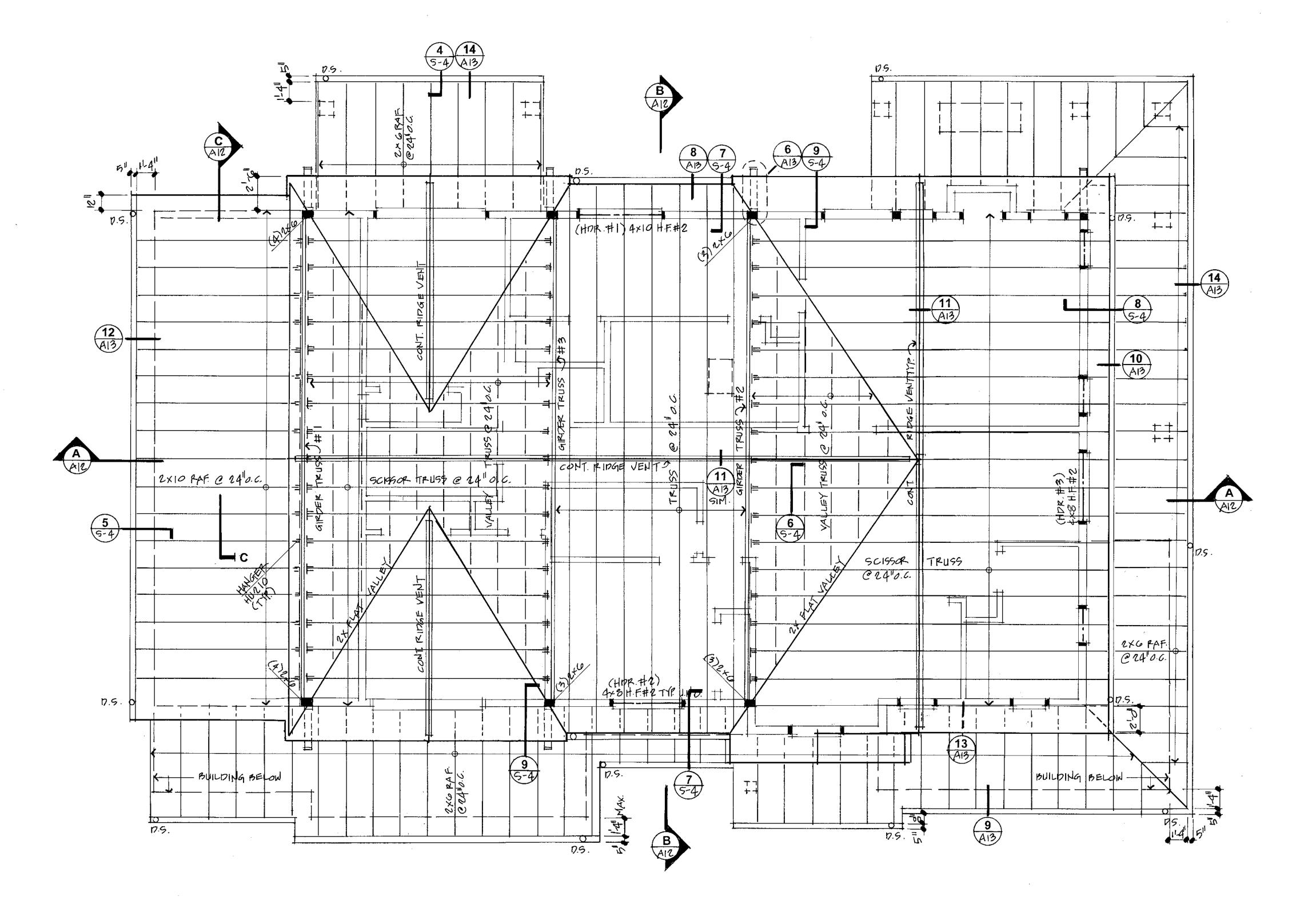
No. Description Date

PERMIT 2/12/21

Scale: AS NOTED

**A8** 

3426 GARDEN AVENUE NORTH



# ROOF FRAMING PLAN SCALE -

ROOF VENTILATION:

UPPER POOF: 2408 S.F. - 150 = 16.45 x.5 = 8.225 S.F. 8.225 x 144 = 1185 SQ.IN.

PROVIDED: 108 LIN. FT. OF CONT. RIDGE VENT@
13.5 SQ.IN. N.F.A./FT.
108 x 13.5 = 1458 SQ.IN. J
BALANCE W/(2) 2" & VENT HOLES ALLEAVES.

PEAR PORCH: 128 S.F. - 150 = .85 S.F. .85 × 144 = 123 SQ. IN. PROVIDED: 16 LIN. FT. OF CONT. SOFFIT VENT @ 10 SQ. IN. N.F.A/FT. 10 × 16 = 160 SQ. IN. V

FRAT/SIDE PROF: 826 S.F. - 150 = 5.50 S.F. 5.50 × 144 = 793 SQ.IN. PROVIDED: 126 LIN.FT. OF CONT. SOFFIT VENT @ 10 SQ.IN. N.F.A./FT. 10×126 = 1.260 SQ.IN.V



ROOF FRAMING PLAN

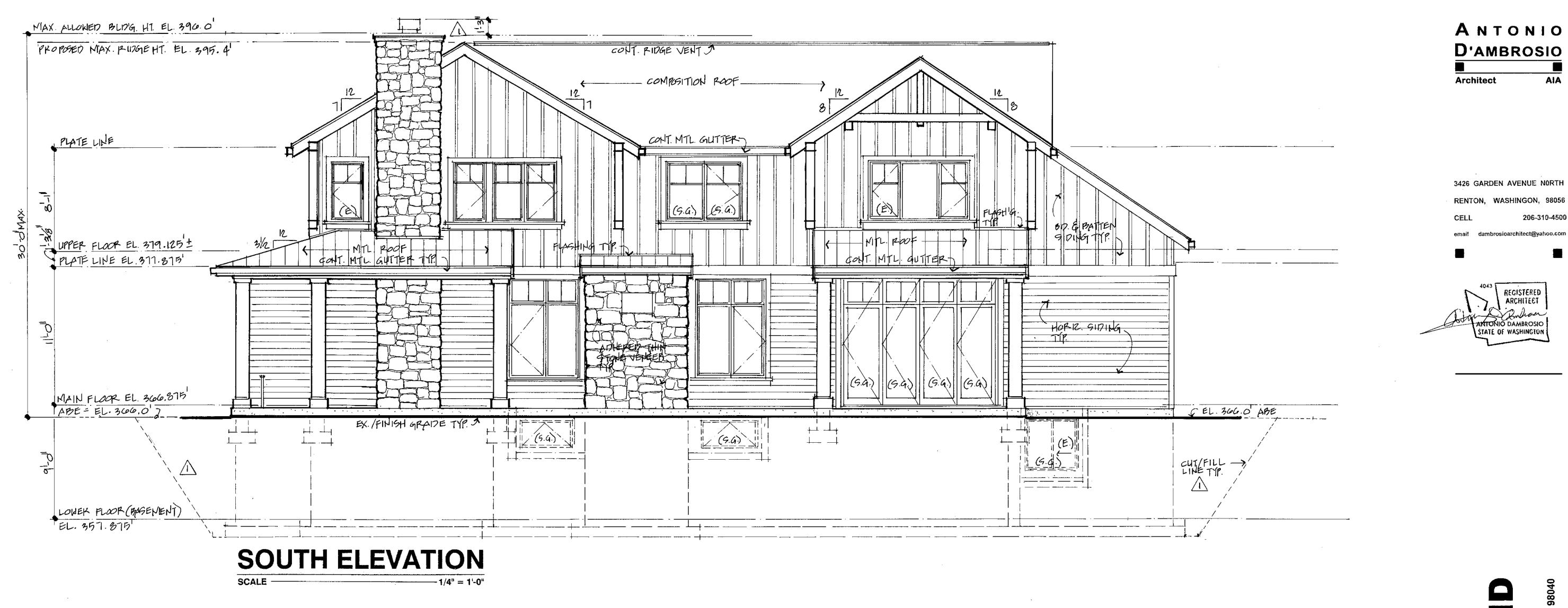
Drawn By: T.D. Checked By: Approved By:

Issue Date: 1/11/20

No. Description Date

Scale: 1/41 = 11-011

Sheet No.





TIMBERLAND

Drawing Title:

EXTERIOR ELEVATIONS

Drawn By: 1.D.
Checked By:
Approved By:

Issue Date: 1/17/20
Revisions:

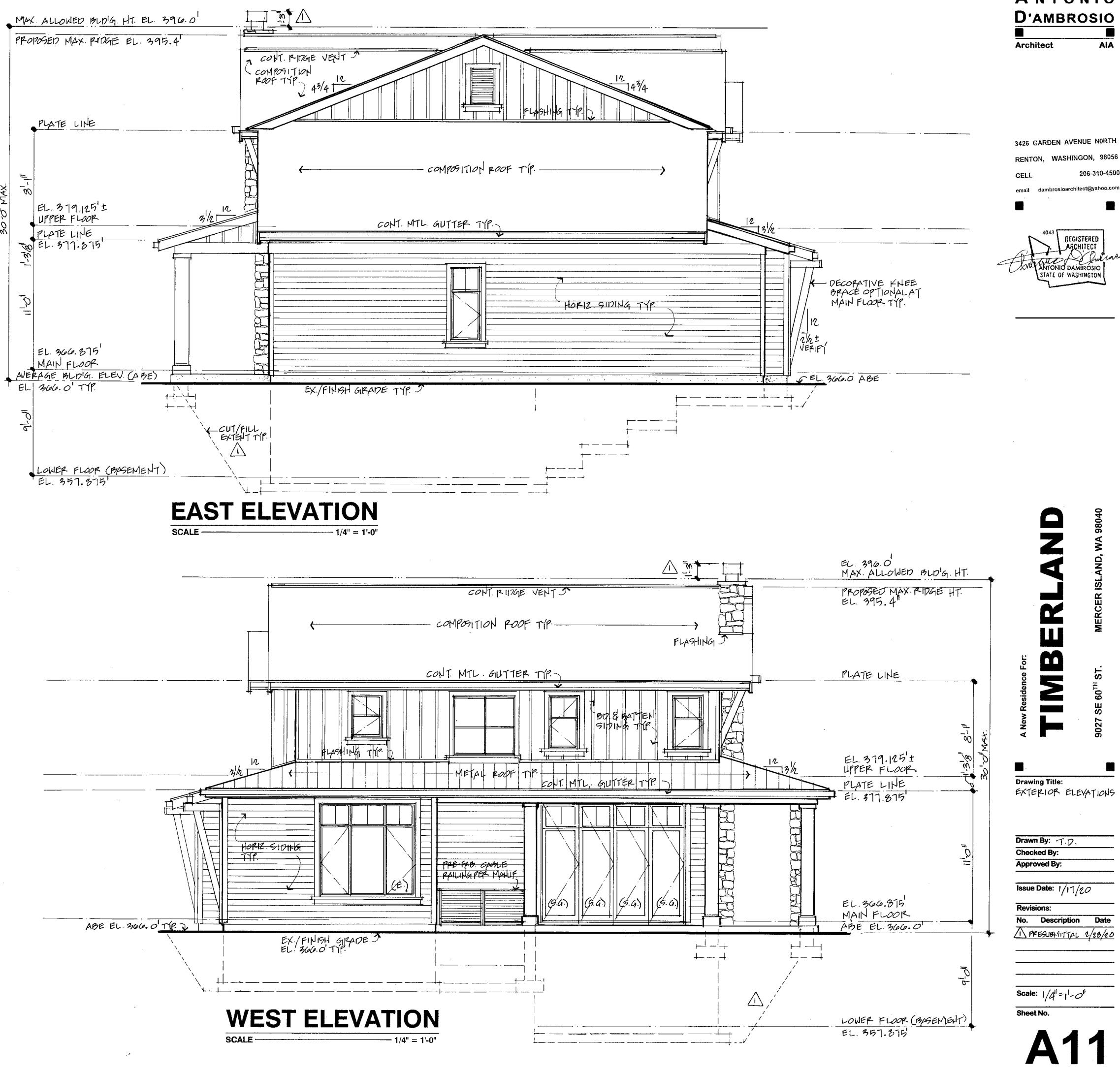
No. Description Date

1 PRESUBMITTAL 2/18/10

Scale:  $1/4^{11} = 1^{1} - 0^{11}$ 

Sheet No.

A10

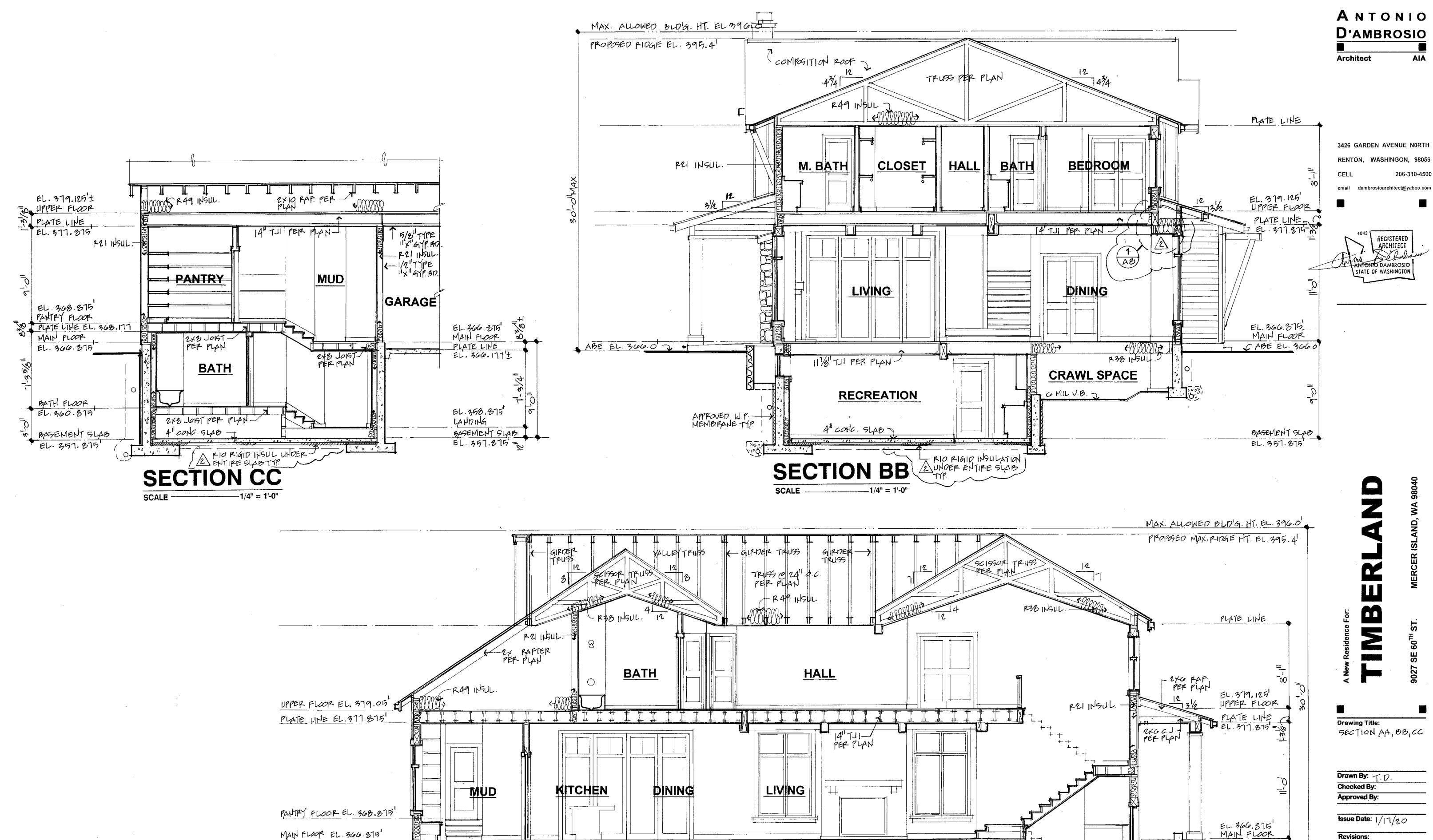


ANTONIO D'AMBROSIO AIA

3426 GARDEN AVENUE NORTH RENTON, WASHINGON, 98056

REGISTERED
ARCHITECT
ANTONIO DAMBROSIO
STATE OF WASHINGTON

No. Description Date A PRESUBLITTAL 2/28/20



117/8" TJI PER PLAN /

**HALL** 

4" CONC. SLAB -

PIO PIGID INSUL. UNDER-

**RECREATION** 

4" MIN. GRAHUR FILL TIP

LZYB JOHT PER PLAN

**SECTION AA** 

SCALE ---

HALL

MAIN FLOOR EL 366 375'
ABE EL 366 0'

BATH FLOOR EL. 360.875

BASEMENT SLAB EL. 357.875

LANDING EL. 358.875

Issue Date: 1/17/20 Revisions:

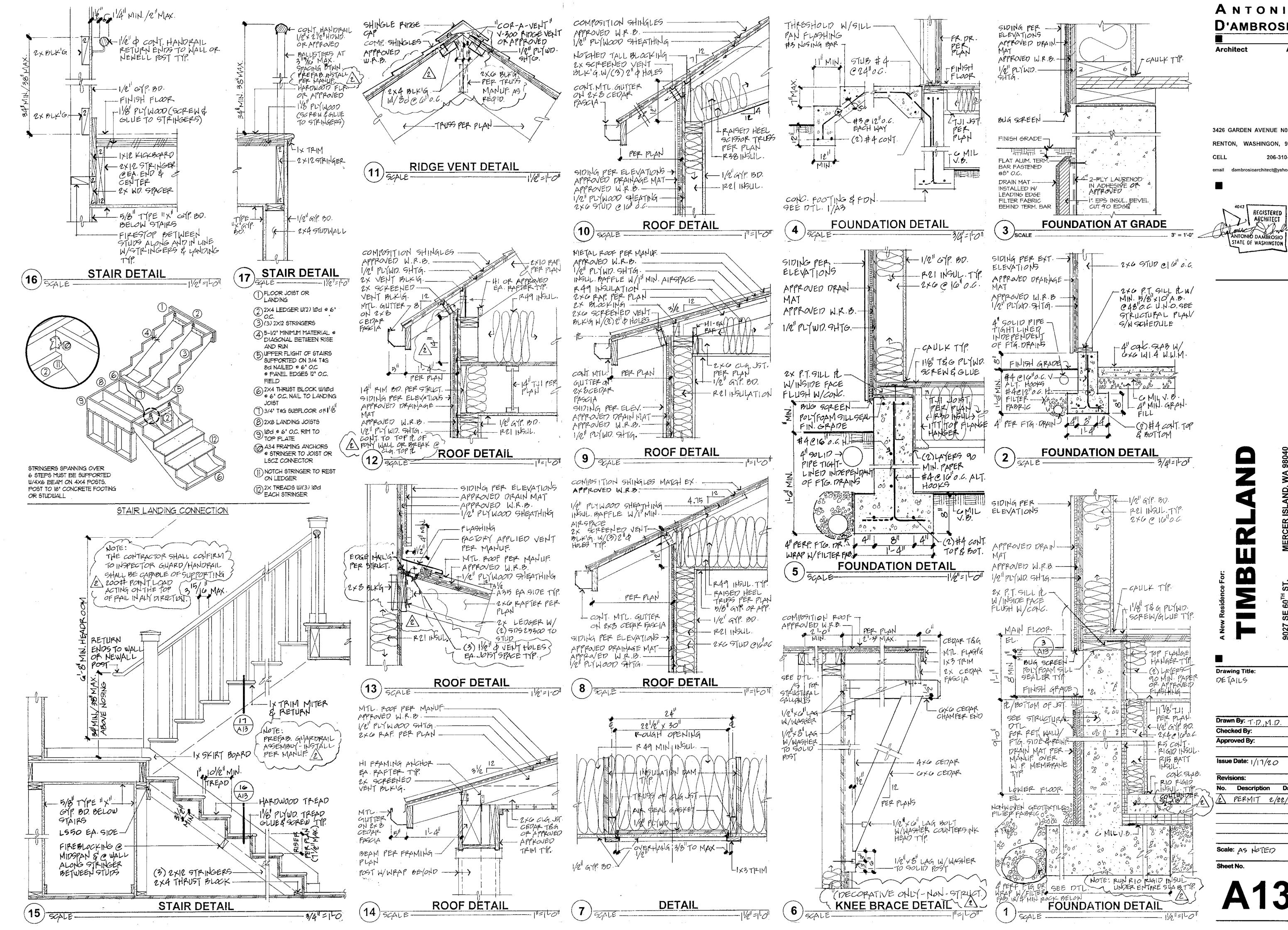
No. Description Date @ PERMIT 2/22/21

ABE = 366.01)

BASEMENT SLAB EL.357.875

PIO PIGID — INSUL.TIP.

Scale: 1/41 = 1-01 Sheet No.

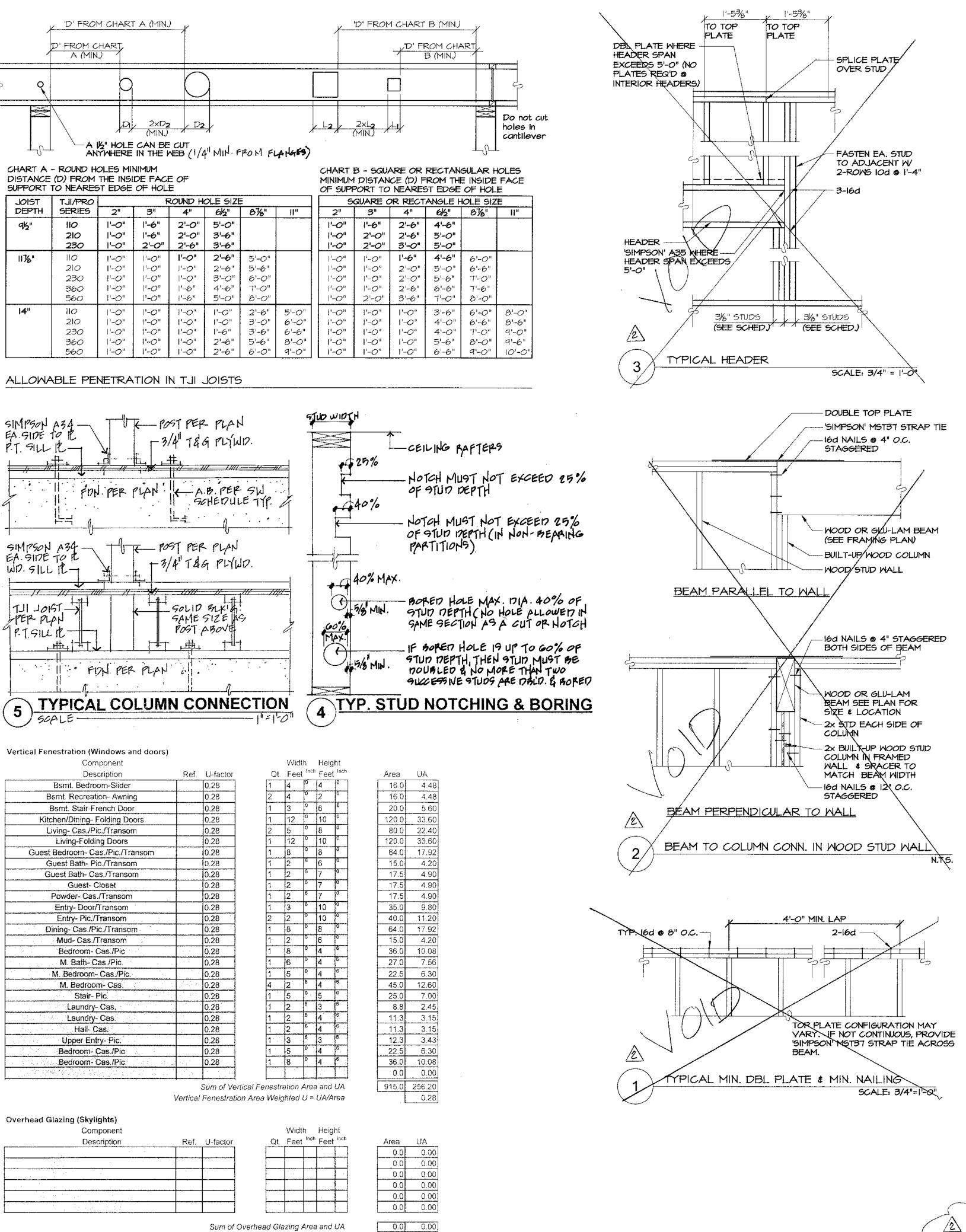


ANTONIO D'AMBROSIO

3426 GARDEN AVENUE NORTH RENTON, WASHINGON, 98056 206-310-4500 ambrosioarchitect@vahoo.com

ANTONIO DAMBROSIO

No. Description Date PERMIT 2/22/21

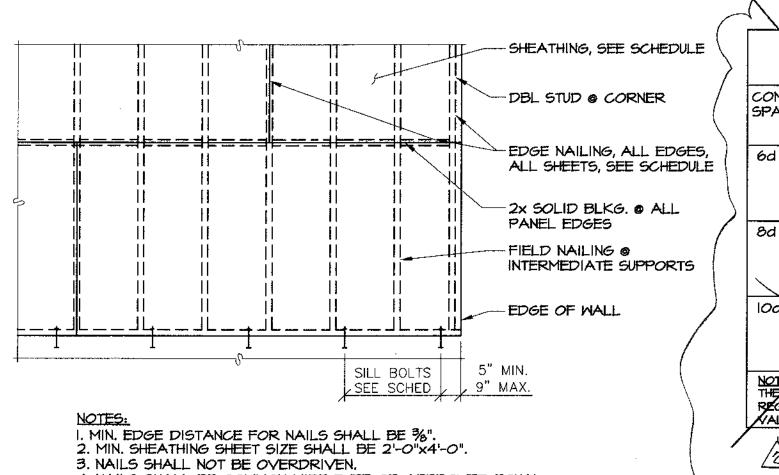


Sum of Overhead Glazing Area and UA

915.0 256.20

Overhead Glazing Area Weighted U = UA/Area

Total Sum of Fenestration Area and UA (for heating system sizing calculations)



4. NAILS SHALL BE COMMON WIRE TYPE OR APPROVED EQUAL.

TYPICAL WALL SHEATHING

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

	$\sqrt{}$	·					
	T + A	BLES C	E EQUI	\	IT EAC	resiero.	- /
		APLES,					- 1
>	1 3		LATER				///
/		<del>\</del>					
/	COMMON	NAIL	EQUIV. S				
{	SPACING	CAUSE		STAPLE	<del>-</del>		T-NAILS
		GAUGE PENETRATION	16	15 I*	<del> 4</del>  1"	(13	[3]
)	-	4"	3/2"	4"	5*/	1¼" 4°	<b>兆</b> " 5"
= (	6d 🛭	6"	5	6"	<del></del>	6*	75"
- }	ļ	8" /	63	8"	ak"	8"	10"
- \	İ	160" (6	8/21/	0 /	12"	10"	12"
)		124	10"	13/	141/2"	12"	14½"
	94 0	A41	2/2	25	4"	3½"	4"
1	8d @ 1	6"	4"	5"\	6"	5"	6"
1	l \	8/	5/2/	6½"	8"	61/2"	8"
1		70"	6/2"	8"	10"	8"	10"
1	<b> </b> \ \	12"	8"	10"	12"	<u>ak</u> "	12"
}	10d &	4" /	2"	2½"	3"\	2½"	3/2"
	100 000	6)	3/2"	4"	5"	4"	5"
		16"	4½"	5½"	65"	<b>5½</b> "	7"
	ر ا	10"	5½"	7"	8"	6)5"	8K2"
		12"	61/2"	8*	ak:"	8"\	10*
	NOTE PEN						₹ <i>0</i> F
	THE STAP						
	REQUIRED				PACITY	(SHEAR	
	(VALUE) FO	K LAIER	ONL LOP	TING.			———————————————————————————————————————
	Ÿ	\/	011.	)			,
	[2]	٧	ر ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ،				
					1	on the last to the state of the	
\				Marian.	نعید√ کر		

REGISTERED ARCHITECT ANTONIO D'AMBROSIO STATE OF WASHINGTON ACE NAIL ACE NAIL ACE NAIL 24" O.C. 16" O.C. 16" O.C. ZE NAIL AT AND BOTTOM, ERED ON OPP. SIDES NAIL AT ENDS FEACH SPLICE CH BEARING

ANTONIO

D'AMBROSIO

3426 GARDEN AVENUE NORTH

RENTON, WASHINGON, 98056

email dambrosioarchitect@yahoo.com

206-310-4500

Architect

	04.9.1 - FASTENING SCHEDULE	1	I" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d COMMON 2-3"x0.131" NAIL 2-3" 14 GAGE STAPLE	FACE NAIL
CONNECTION	FASTENING and	LOCATION	IXØ SHEATHING TO EACH		
JOIST TO SILL OR GIRDER	3-8d COMMON 3-3"XO.I3I" NAIL 3-3" 14 GAGE STAPLE	TOENAIL.	BEARING WALL	2-8d COMMON	FACE NAIL
BRIDGING TO JOIST	2-8d COMMON 2-3"x0.131" NAIL 2-3" 14 GAGE	TOENAIL EACH END	MIDER THAN IXE SHEATHING TO EACH BEARING	3-8d COMMON	FACE NAIL
IX6 SUBFLOOR OR LESS TO EACH JOIST	STAPLE 2-8d COMMON	FACE NAIL	BUILT-UP CORNER STUDS	16d COMMON 3"x0.131" NAIL 3" 14 GAGE STAPLE	24" O.C. 16" O.C. 16" O.C.
WIDER THAN IX6 SUBFLOOR TO EACH JOIST	3-8d COMMON	FACE NAIL	BUILT-UP GIRDER AND BEAMS	20d COMMON # 32" O.C. 3"x0.131" NAIL # 24" O.C.	FACE NAIL AT TOP AND BOTTOM, STAGGERED ON OP
2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON	BLIND & FACE NAIL		3" I4 GAGE STAPLE • 24" O.C	SIDES
SOLE PLATE TO JOIST OR BLOCKING	16d • 16" O.C. 3"x0.131" NAIL • 8" O.C. 3" 14 6AGE STAPLE • 12" O.C.	TYPICAL FACE NAIL		2-20d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	FACE NAIL AT END! AND AT EACH SPLIC
SOLE PLATE TO JOIST OR	3-16d • 16" O.C.		2º PLANKS	16d COMMON	• EACH BEARING
BLOCKING • BRACED WALL PANEL	3"x0,131" NAIL • 16" O.C. 3" 14 GAGE STAPLE • 16" O.C.	BRACED WALL PANELS	COLLAR TIE TO RAFTER	3-10d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE FACE NA	FACE NAIL
TOP PLATE TO STUD	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	END NAIL	JACK RAFTER TO HIP	3-10d COMMON 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	TOENAIL
STUD TO SOLE PLATE	4-8d COMMON 4-3"xO. 3 " NA  L 3-3"  4 GAGE STAPLE	TOENAIL		2-16d COMMON 3-3"XO.131" NAIL 3-3" 14 GAGE STAPLE	FACE NAIL
	2-16d COMMON 3-3"XO.131" NAIL 3-3" 14 GAGE STAPLE	END NAIL	ROOF RAFTER TO 2x RIDGE BEAM	2-16d COMMON 3-3"XO.131" NAIL 3-3" 14 GAGE STAPLE	TOENAIL
DOUBLE STUDS	i6d • 24" O.C. 3"x0.i3i" Nail • 8" O.C. 3" 14 GAGE STAPLE • 8" O.C.	FACE NAIL		2-16d COMMON 3-3'XO.131" NAIL 3-3' 14 GAGE STAPLE	FACE NAIL
DOUBLE TOP PLATES	16d ● 16" O.C.   3"x0. 3 " NAIL ● 12" O.C.   3"-14 GAGE STAPLE ● 12" O.C.	TYPICAL FACE NAIL	JOIST TO BAND JOIST	3-16d COMMON 5-3"XO.131" NAIL 5-3" 14 GAGE STAPLE	FACE NAIL
DOUBLE TOP PLATES	8-16d COMMON 12-3"XO.131" NAIL 12-3" 14 GAGE STAPLE TYP. FACE NAIL	LAP SPLICE	LEDGER STRIP	3-16d COMMON 4-3*x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON 3-3"XO. 3 " NAIL 3-3" 14 GAGE STAPLE	TOENAIL	WOOD STRUCTURAL PANELS AND PARTICLESOARD; SUBFLOOR, ROOF AND WALL	½" AND LESS 6d <sup>D, L</sup> 2%"x0.113" N. 194" 16 GAGE	AILN
RIM JOIST TO TOP PLATE	8d • 6" (152mm) O.C. 3"x0.131" NAIL • 6" O.C. 3" 14 GAGE STAPLE • 6" O.C.	TOENAIL	SHEATHING (TO FRAMING);	134"   16 GAGE   132" TO 34"   8d OR 6d <sup>E</sup>   236" XO.  31" N.   2"   16 GAGEP	_
TOP PLATES, LAPS, AND INTERSECTIONS	2-16d COMMON 3-3"x0.131" NAIL 3-3" 14 GAGE STAPLE	FACE NAIL	SINGLE FLOOR (COMBINATION	%" TO !" ed <sup>C</sup> 以" TO 以" lod <sup>D</sup> OR ed <sup>E</sup>	
CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" O.C. ALONG EDGE	SUBFLOOR UNDERLAYMENT TO FRAMING)	% AND LESS 6d <sup>E</sup>	
CEILING JOISTS TO PLATE	3-8d COMMON 5-3"x0.131" NAIL 5-3" 14 GAGE STAPLE	TOENAIL		16" TO 14" IOD OR EDE	
CONTINUOUS HEADER TO STUD	4-8d COMMON	TOENAIL	PANEL SIDING (TO FRAMING)	% ed -	
CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.IO.4.I, TABLE 2308.IO.4.I)	3-16d COMMON MIN., TABLE 2308.10.4.1 4-3"x0.131" NAIL. 4-3" 14 GAGE STAPLE	FACE NAIL	FIBERBOARD SHEATHING	以* NO. II GAGE <sup>†</sup> ROOFING NAI 6d COMMON NAIL NO. I6 GAGE	
CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON MIN., TABLE 2306.10.4.1 4-3"x0.131" NAIL 4-3" 14 GAGE STAPLE	FACE NAIL		STAPLE NO. II GAGE! ROOFING NAI BO COMMON NAIL NO. 16	lL
RAFTER TO PLATE (SEE SECTION 2306.IO.I, TABLE 2306.IO.I)	3-8d COMMON 3-3"XO.131" NAIL 3-3" 14 GAGE STAPLE	TOENAIL	INTERIOR PANELING	GAGE STAP	4d K 6d K
	L	<u></u>		<u></u>	

NOTES:
A. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
B. NAILS SPACED . 6" O.C. . EDGES, 12" . INTERMEDIATE SUPPORTS EXCEPT 6" . ALL SUPPORTS WHERE SPANS ARE 46"
B. VARIE EAS MAIL ING OF WOOD STRIKTIRAL PANEL & PARTICLEBOARD DIAPHRAGMS & SHEARWALLS, REFER TO SECTION 2905. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING C. COMMON OR DEFORMED SHANK

D. COMMON

E. DEFORMED SHANK

F. CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQ. OF SECTION 2304.3

G. FASTENERS SPACED 3" O.C. • EXTERIOR EDGES & 6" O.C. • INTERMEDIATE SUPPORTS

P. FASTENERS SPACED 4" O.C. AT EDGES, 8" ● INTERMEDIATE.

! CORROSION-RESITANT ROOFING NAILS W %"Φ HEAD AND ILS" LENGTH FOR LS" SHEATHING & 1"%" LENGTH FOR 25/32" I, CORROSION-RESISTANT STAPLES WNOMINAL %" CROWN & K" LENGTH FOR K" SHEATHING AND K" LENGTH FOR 25/32" SHEATHING. PANE PORTS • 16" (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE

J. CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" ● INTERMEDIATE SUPPORTS
K. PANEL SUPPORTS ● 24", CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" ● INTERMEDIATE SUPPORTS.
L. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS ARE THE MINIMUM REQUIRED FOR MOOD STRUCTURAL PANELS.

M. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF %". N. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4" O.C. EDGES, 6" © INTERMEDIATE SUPPORTS. O. FASTENERS SPACED 4" O.C. AT EDGES, 8" ● INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3" O.C. AT EDGES, 6' . INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.

TABLE 2304.9.1 - IBC TYPICAL FASTENING SCHEDULE

Drawn By	"M.D, T.D.
Checked	Ву:
Approved	i Bv:

Drawing Title:

DETAILS

Issue Date: 1/17/20

Revisions:

No. Description 12 PERMIT 2/22/21

Scale: AS NOTED

Sheet No.

ARCHITECTURAL DRAWINGS: REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION INCLUDING, BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, STAIRS, CURBS, DRAINS, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES AND OTHER NONSTRUCTURAL ITEMS.

BELOW. THE LATEST EDITION OF THE MATERIALS REFERENCE STANDARDS SHALL BE USED.

STRUCTURAL RESPONSIBILITIES: THE PE IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED STATE.

CONTRACTOR RESPONSIBILITIES: THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND WSHA. THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

DISCREPANCIES: IN CASE OF DISCREPANCIES BETWEEN THESE GENERAL NOTES, THE CONTRACT DRAWINGS AND SPECIFICATIONS, AND/OR REFERENCE STANDARDS, THE ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

SITE VERIFICATION: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR CONSTRUCTION. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL UNDERGROUND UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO EXCAVATION OR DRILLING.

<u>WIND DESIGN</u>: BASIC WIND SPEED (3-SECOND GUST), V = 85 MPH; WIND IMPORTANCE FACTOR, IW = 1.0; OCCUPANCY CATEGORY = II; EXPOSURE CATEGORY = B;

SEISMIC DESIGN: SEISMIC IMPORTANCE FACTOR IE = 1.0; OCCUPANCY CATEGORY = II; SS = 1.451G; S1 = 0.556G; SITE CLASS = D; SDS = 0.967G; SD1 = 0.556G; SEISMIC DESIGN CATEGORY = D; BASIC SEISMIC FORCE RESISTING SYSTEM = A-13 (BEARING WALL SYSTEMS) LIGHT-FRAMED WALLS WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE: CS = 0.104: R = 6.5; ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE PER ASCE 7, SEC 12.8.

GROUND SNOW LOAD, PG = 20 PSF; FLAT ROOF SNOW LOAD, PF = 25 PSF (DRIFT LOADS CONSIDERED PER ASCE 7 WHERE APPLICABLE); SNOW EXPOSURE FACTOR, CE = 1.0; SNOW IMPORTANCE FACTOR, IS = 1.0; THERMAL FACTOR, CT = 1.2.

ROOF (LIVE) <u>LIVE LOADS:</u> 20 PSF ROOF (SNOW) 25 PSF RESIDENTIAL FLOOR 40 PSF RESIDENTIAL DECK 60 PSF

<u>DESIGN-BY-OTHERS (DEFERRED SUBMITTALS) LOADS:</u> ALL PRE-ENGINEERED/FABRICATED/MANUFACTURED OR OTHER PRODUCTS DESIGNED BY OTHERS SHALL BE DESIGNED FOR THE TRIBUTARY DEAD AND LIVE LOADS PLUS WIND, EARTHQUAKE, AND COMPONENT AND CLADDING LOADS WHEN APPLICABLE. DESIGN SHALL CONFORM TO THE PROJECT DRAWINGS AND SPECIFICATIONS, REFERENCE STANDARDS, AND GOVERNING CODE.

15 PSF

ROOF DEAD LOAD TOP CHORD DEAD LOAD 8 PSF 7 PSF BOTTOM CHORD DEAD LOAD TRUSS UPLIFT LOAD (GROSS) 10 PSF

<u>DEFERRED SUBMITTALS:</u> ITEMS DESIGNED BY OTHERS SHALL INCLUDE CALCULATIONS, SHOP DRAWINGS AND PRODUCT DATA. DESIGN SHALL BE PREPARED BY THE SSE AND SUBMITTED TO THE ARCHITECT AND SER FOR REVIEW PRIOR TO SUBMISSION TO THE JURISDICTION FOR APPROVAL. THE SSE SHALL SUBMIT TO THE ENGINEER FOR REVIEW CALCULATIONS AND SHOP DRAWINGS THAT ARE STAMPED AND SIGNED BY THE SSE. REVIEW OF THE SSE'S SHOP DRAWINGS IS FOR GENERAL COMPLIANCE WITH DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE SSE OF RESPONSIBILITY FOR THAT DESIGN. ALL NECESSARY BRACING, TIES, ANCHORAGE, AND PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS OR THE SSE'S DESIGN DRAWINGS AND CALCULATIONS.

NSPECTIONS: ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH BC SEC 109. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

PREFABRICATED CONSTRUCTION: ALL PREFABRICATED CONSTRUCTION SHALL CONFORM TO IBC SEC 1703.6.

GEOTECHNICAL INSPECTION: THE GEOTECHNICAL ENGINEER OR BUILDING OFFICIAL SHALL INSPECT ALL PREPARED SOIL BEARING SURFACES PRIOR TO PLACEMENT OF CONCRETE AND REINFORCING STEEL AND PROVIDE A LETTER TO THE OWNER STATING THAT SOILS ARE ADEQUATE TO SUPPORT THE "ALLOWABLE FOUNDATION PRESSURE" SHOWN BELOW. SOIL VALUES SHALL BE FIELD VERIFIED BY THE BUILDING OFFICIAL OR THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.

DESIGN SOIL VALUES:

ALLOWABLE BEARING PRESSURE (ASSUMED) 1500 PSF PASSIVE LATERAL PRESSURE 150 PSF/FT ACTIVE LATERAL PRESSURE (UNRESTRAINED) 35 PSF/FT ACTIVE LATERAL PRESSURE (RESTRAINED) 50 PSF/FT COEFFICIENT OF SLIDING FRICTION 0.25

SLABS-ON-GRADE & FOUNDATIONS: ALL FOUNDATIONS SHALL BEAR ON STRUCTURAL COMPACTED FILL OR COMPETENT NATIVE SOIL PER THE GEOTECHNICAL REPORT. ALL SLABS-ON-GRADE SHALL BE FOUNDED ON APPROPRIATE SUB-GRADE PREPARATION AS NOTED IN THE GEOTECHNICAL REPORT. EXTERIOR PERIMETER FOOTINGS SHALL BEAR NOT LESS THAN 18 INCHES BELOW FINISH GRADE, OR BY THE GEOTECHNICAL ENGINEER AND THE BUILDING OFFICIAL. INTERIOR FOOTINGS SHALL BEAR NOT LESS THAN 12 INCHES BELOW FINISH FLOOR.

COMPACTION: UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL ENGINEER, FOOTINGS SHALL BE PLACED ON COMPACTED MATERIAL AND SHALL BE WELL-GRADED GRANULAR MATERIAL WITH NO MORE THAN 5% PASSING A #2 SIEVE. FILLS PLACED SHALL BE IN MAXIMUM 8" LIFTS AND ALL BEARING SOILS SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT USING THE MODIFIED PROCTOR TEST.

# CAST-IN-PLACE CONCRETE & REINFORCEMENT

REFERENCE STANDARDS: CONFORM TO:

(1) ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY". (2) IBC CHAPTER 19.

(3) ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", SEC 3 "REINFORCEMENT AND REINFORCEMENT SUPPORTS."

FIELD REFERENCE: THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) WITH SELECTED ACI AND ASTM REFERENCES."

CONCRETE MIXTURES: CONFORM TO ACI 318 CHAPTER 5 "CONCRETE QUALITY, MIXING, AND PLACING."

MATERIALS: CONFORM TO ACI 318 CHAPTER 3 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES. REINFORCING BARS ASTM A615, GRADE 60, DEFORMED BARS.

DEFORMED WELDED WIRE FABRIC ASTM A497 BAR SUPPORTS CRSI MSP-2, CHAPTER 3 "BAR SUPPORTS." 16.5 GAGE OR HEAVIER, BLACK ANNEALED. TIE WIRE

MIX DESIGNS: PROVIDE A 5-SACK MINIMUM, 28-DAY COMPRESSIVE STRENGTH F'C = 2,500 PSI CONCRETE MIX WITH MAXIMUM 3/4" AGGREGATE AND 0.50 W/C RATIO FOR ALL ISOLATED POST AND CONTINUOUS WALL FOOTINGS, SLABS-ON-GRADE, AND BASEMENT WALLS EXTENDING NO MORE THAN 8" ABOVE FINISH GRADE ELEVATION. FOR BASEMENT WALLS EXTENDING MORE THAN 8" ABOVE FINISH GRADE AND ALL SITE WALLS, PROVIDE A 5-1/2 SACK MINIMUM F'C = 3,000 PSI CONCRETE MIX WITH MAXIMUM 3/4" AGGREGATE AND 0.50 W/C RATIO.

## MIX DESIGN NOTES:

(1) W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS.

(2) CEMENTITIOUS CONTENT: THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 301 SEC 4.2.2.8.B. MAXIMUM AMOUNT OF FLY ASH SHALL BE 20% OF TOTAL CEMENTITIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE BY PE.

(3) AIR CONTENT: CONFORM TO ACI 301 SEC 4.2.2.4. HORIZONTAL EXTERIOR SURFACES IN CONTACT WITH THE SOIL REQUIRE ENTRAINED AIR. USE "MODERATE EXPOSURE". VERTICAL EXTERIOR SURFACES REQUIRE "MODERATE EXPOSURE". TOLERANCE IS +/- 1-1/2%. AIR CONTENT SHALL BE MEASURED AT POINT OF

PLACEMENT. (4) SLUMP: CONFORM TO ACI 301 SEC 4.2.2.2. SLUMP SHALL BE DETERMINED AT POINT OF PLACEMENT. (5) NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50F AT THE CONTRACTOR'S OPTION.

FORMWORK: CONFORM TO ACI 301 SEC 2 "FORMWORK AND FORM ACCESSORIES." REMOVAL OF FORMS SHALL CONFORM TO SEC 2.3.2 EXCEPT STRENGTH INDICATED IN SEC 2.3.2.5 SHALL BE 0.75 F'C.

MEASURING, MIXING, AND DELIVERY: CONFORM TO ACI 301 SEC 4.3.

HANDLING, PLACING, CONSTRUCTING AND CURING: CONFORM TO ACI 301 SEC 5.

REBAR FABRICATION & PLACING: CONFORM TO ACI 301, SEC 3.2.2 "FABRICATION", AND ACI SP-66 "ACI DETAILING MANUAL." CONFORM TO ACI 301, SEC 3.3.2 "PLACEMENT." PLACING TOLERANCES SHALL CONFORM TO SEC 3.3.2.1 "TOLERANCES."

SPLICES: CONFORM TO ACI 301, SEC 3.3.2.7. REFER TO PLANS FOR TYPICAL SPLICES.

FIELD BENDING: CONFORM TO ACI 301 SEC 3.3.2.8. "FIELD BENDING OR STRAIGHTENING." BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS.

CORNERS BARS: PROVIDE MATCHING-SIZED "L" CORNER BARS FOR ALL HORIZONTAL WALL AND FOOTING BARS

WITH THE APPROPRIATE SPLICE LENGTH, UNO. CONCRETE COVER: CONFORM TO THE FOLLOWING COVER REQUIREMENTS FROM ACI 301, TABLE 3.3.2.3:

CONCRETE CAST AGAINST EARTH CONCRETE EXPOSED TO EARTH OR WEATHER (#5 & SMALLER) 1-1/2" BARS IN SLABS AND WALLS

CONSTRUCTION JOINTS: CONFORM TO ACI 301 SEC 2.2.2.5, 5.1.2.3A, 5.2.2.1, AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON THE CONSTRUCTION DRAWINGS. USE OF AN ACCEPTABLE ADHESIVE, SURFACE RETARDER, PORTLAND CEMENT GROUT, OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. WHERE SHEAR BOND IS REQUIRED, ROUGHEN SURFACES TO 1/4" AMPLITUDE.

#### WOOD FRAMING

<u>REFERENCE STANDARDS:</u> CONFORM TO: (1) IBC CHAPTER 23 "WOOD",

DESIGN LOADS SECTION.

(2) NDS AND NDS SUPPLEMENT - "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", (3) ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION",

<u>DEFERRED SUBMITTALS:</u> SUBMIT PRODUCT DATA AND PROOF OF ICC APPROVAL FOR FRAMING MEMBERS AND FASTENERS THAT HAVE BEEN DESIGNED BY OTHERS. SUBMIT CALCULATIONS PREPARED BY THE SSE IN THE STATE OF WASHINGTON FOR ALL MEMBERS AND CONNECTIONS DESIGNED BY OTHERS ALONG WITH SHOP DRAWINGS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS AND WEB STIFFENERS SHALL BE DETAILED AND FURNISHED BY THE SUPPLIER. TEMPORARY AND PERMANENT BRIDGING SHALL BE INSTALLED IN

IDENTIFICATION: ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

CONFORMANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DEFLECTION LIMITS SHALL BE AS NOTED UNDER

- <u>SAWN LUMBER</u>: CONFORM TO GRADING RULES OF WWPA, WCLIB OR NLGA. FINGER JOINTED STUDS

CEPTABLE AT INTERIOR	WALLS ONLY.		
MEMBER USE	SIZE	SPECIES	GRADE
STUDS & POSTS	2x, 4x	HEM-FIR	NO. 2
RAFTERS	2x4 - 2x10	HEM-FIR	NO. 2
BEAMS	4x8 - 4x12	HEM-FIR	NO. 2
BEAMS	6x8 - 6x12	HEM-FIR	NO. 2

POSTS & TIMBERS 6x, 8x DOUG-FIR NO. 2

- <u>GLUED LAMINATED TIMBER:</u> CONFORM TO AITC 117 "STANDARD SPECIFICATIONS FOR STRUCTURAL "STRUCTURAL GLUED LAMINATED TIMBER." CAMBER ALL GLUED LAMINATED MEMBERS BEAMS TO 2000" RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.

SIZES MEMBER USE SPECIES DF/DF 24F-1.8E ALL DF/DF 24F-1.8E[(-FB)=(+FB)] CANTILEVER SPANS

- <u>METAL PLATE CONNECTED WOOD ROOF TRUSSES:</u> CONFORM TO IBC SEC 2303.4 "TRUSSES." WOOD STRUCTURAL SHEATHING (PLYWOOD): WOOD APA-RATED STRUCTURAL SHEATHING INCLUDES: ALL VENEER PLYWOOD, ORIENTED STRAND BOARD, WAFERBOARD, PARTICLEBOARD, T1-11 SIDING, AND COMPOSITES OF VENEER AND WOOD BASED MATERIAL. CONFORM TO PRODUCT STANDARDS PS-1 AND PS-2 OF THE U.S. DEPT. OF COMMERCE AND THE AMERICAN PLYWOOD ASSOCIATION (APA).

		MINIMUM A	PA RATING	
LOCATION	THICKNESS	SPAN RATING	PLYWOOD GRADE	EXPOSURE
ROOF	15/32"	32/16	C-D	1
FLOOR	23/32" T&G	24 OC	STURD-I-FLOOR	1
WALLS	15/32"	32/16	C-D	1
WALLC/ALT)	7 /16" OCD	24/16	C D	1

- <u>JOIST HANGERS AND CONNECTORS</u>: SHALL BE "STRONG TIE" BY SIMPSON COMPANY OR USP EQUIVALENT AS SPECIFIED IN THEIR LATEST CATALOGS. ALTERNATE CONNECTORS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC APPROVAL FOR EQUIVALENT OR GREATER LOAD CAPACITIES AND ARE REVIEWED AND APPROVED BY THE SER PRIOR TO ORDERING. CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE 1/2 OF THE NAILS OR BOLTS IN EACH MEMBER. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. UNLESS NOTED OTHERWISE ALL NAILS SHALL BE FULL LENGTH COMMON. NAIL STRAPS TO WOOD FRAMING AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO SETTLE.

NAILS AND STAPLES: CONFORM TO IBC SEC 2303.6 "NAILS AND STAPLES." UNLESS NOTED ON PLANS, NAIL PER IBC TABLE 2304.9.1. UNLESS NOTED OTHERWISE ALL NAILS SHALL BE COMMON. NAIL SIZES SPECIFIED ON THE DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

THE DRAWINGS ARE DASED ON THE FOLLOWING SPECIFICATION	٥.	
SIZE	LENGTH	DIAMETER
8d	2-1/2"	0.131"
10d	4"	0.148"
(8d & 10d ALTERNATIVE) PASLODE TETRAGRIP NAILS	2-3/8"	0.113"
12d (16d SINKER)	3-1/4"	0.148"
16d	3-1/2"	0.162"

LAG BOLTS/BOLTS: CONFORM TO ASTM A307.

NAILING REQUIREMENTS: PROVIDE MINIMUM NAILING IN ACCORDANCE WITH IBC TABLE 2304.9.1 "FASTENING SCHEDULE" EXCEPT AS NOTED ON THE DRAWINGS. NAILING FOR ROOF/FLOOR DIAPHRAGMS/SHEAR WALLS SHALL BE PER DRAWINGS. NAILS SHALL BE DRIVEN FLUSH AND SHALL NOT FRACTURE THE SURFACE OF SHEATHING.

STANDARD LIGHT-FRAME CONSTRUCTION: UNLESS NOTED ON THE PLANS, CONSTRUCTION SHALL CONFORM TO IBC SEC 2308 "CONVENTIONAL LIGHT-FRAME CONSTRUCTION" AND IBC SEC 2304 "GENERAL CONSTRUCTION REQUIREMENTS."

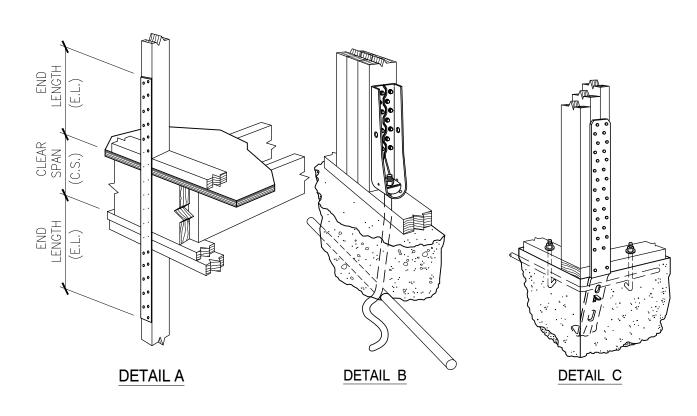
(1) WALL FRAMING: UNLESS OTHERWISE NOTED, ALL INTERIOR WALLS SHALL BE 2X4 @ 16"OC AND ALL EXTERIOR WALLS SHALL BE 2X6 @ 16"OC. PROVIDE (2)BUNDLED STUDS MIN AT WALL ENDS AND EACH SIDE OF ALL OPENINGS. UNO, ALL SOLID SAWN LUMBER HEADERS SHALL BE SUPPORTED BY A MINIMUM OF (1)TRIM AND (1)KING STUD AND ALL GLULAM OR ENGINEERED WOOD HEADERS BY (2)TRIM AND (2)KING STUDS. AT FRAMED WALLS, UNO, ALL SOLID SAWN LUMBER BEAMS SHALL BE SUPPORTED ON A MINIMUM OF (2) BUNDLED 2X STUDS AND ALL GLULAM OR ENGINEERED WOOD BEAMS ON A MINIMUM OF (3) BUNDLED 2X STUDS. STITCH-NAIL BUNDLED STUDS WITH (2)10D @ 12"OC. UNO, ALL INTERIOR AND EXTERIOR HEADERS SHALL BE 4X6. PROVIDE SOLID BLOCKING THRU FLOORS TO SUPPORTS BELOW FOR BEARING WALLS AND POSTS. UNO, ATTACH BOTTOM PLATES OF STUD WALLS TO WOOD FRAMING BELOW WITH 16D @ 12"OC OR TO CONCRETE WITH 5/8"-DIA. ANCHOR BOLTS X 7" EMBEDMENT AT 48"OC. REFER TO SHEAR WALL SCHEDULE FOR SPECIFIC SHEATHING, STUD, AND NAILING REQUIREMENTS AT SHEAR WALLS. UNO, PROVIDE GYPSUM SHEATHING ON INTERIOR SURFACES AND PLYWOOD SHEATHING ON EXTERIOR SURFACES.

(2) ROOF/FLOOR FRAMING: UNLESS OTHERWISE NOTED, PROVIDE DOUBLE JOISTS/RAFTERS UNDER ALL PARALLEL BEARING PARTITIONS AND SOLID BLOCKING AT ALL BEARING POINTS. PROVIDE DOUBLE JOISTS AROUND ALL ROOF/FLOOR OPENINGS. UNO, MULTI-JOISTS/RAFTERS SHALL BE STITCH-NAILED TOGETHER WITH (2)10D @ 12"OC. PROVIDE ROOF SHEATHING EDGE CLIPS CENTERED BETWEEN FRAMING AT UNBLOCKED PLYWOOD EDGES. ALL FLOOR SHEATHING SHALL HAVE TONGUE AND GROOVE JOINTS OR BE SUPPORTED BY SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF ROOF/FLOOR SHEATHING. ROOF/FLOOR SHEATHING SHALL BE LAID FACE GRAIN PERPENDICULAR TO FRAMING MEMBERS.

MOISTURE CONTENT: WOOD MATERIAL USED FOR THIS PROJECT SHALL HAVE MAXIMUM MOISTURE CONTENT OF 19% EXCEPT FOR THE PRESSURE-TREATED WOOD SILL PLATE.

PRESERVATIVE TREATMENT: WOOD MATERIALS ARE REQUIRED TO BE "TREATED WOOD" UNDER CERTAIN CONDITIONS IN ACCORDANCE WITH IBC SEC 2304.11 "PROTECTION AGAINST DECAY AND TERMITES". CONFORM TO THE APPROPRIATE STANDARDS OF THE AMERICAN WOOD-PRESERVERS ASSOCIATION (AWPA) FOR SAWN LUMBER, GLUED LAMINATED TIMBER, ROUND POLES, WOOD PILES AND MARINE PILES. FOLLOW AMERICAN LUMBER STANDARDS COMMITTEE (ALSC) QUALITY ASSURANCE PROCEDURES. PRODUCTS SHALL BEAR THE APPROPRIATE

METAL CONNECTORS/PT WOOD: CK ENGINEERING LLC RECOMMENDS THAT ALL METAL HARDWARE AND FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER BE STAINLESS STEEL TYPE 316L. AT THE OWNER'S RISK AND DISCRETION, HOT-DIPPED GALVANIZED METAL HARDWARE AND FASTENERS MAY BE INVESTIGATED FOR USE IN LIEU OF STAINLESS STEEL PROVIDED THAT THE FINISH HAS A MINIMUM ZINC CONTENT OF AT LEAST 1.85 OZ/SF AND ITS USE IS COORDINATED BY THE CONTRACTOR AND WOOD SUPPLIER FOR THE EXPECTED ENVIRONMENT AND MOISTURE EXPOSURE FOR APPROPRIATE USE BASED ON THE METHOD OF PRESERVATIVE TREATMENT OF THE



MODEL	ANCHORAGE TYPE (4.5.6)	FASTENERS	END STUD	CAPACITY (LBS)		
# (1)	ANOTIONAGE THE (4,5,6)	IASILINLIIS	REQUIRED (2,3)	DOUG-FIR	HEM-FIR	
CS14	FLR-TO-FLR STRAP (E.L.=19")	(30) 10d COMMON	2x STUD	2,490	2,490	
LSTHD8/RJ	CAST-IN-PLACE	(16) 16d SINKERS	(2) 2× STUDS <sup>7</sup>	1,975	1,975	
STHD10/RJ	CAST-IN-PLACE	(18) 16d SINKERS	(2) 2x STUDS <sup>7</sup>	2,640	2,640	
STHD14/RJ	CAST-IN-PLACE	(22) 16d SINKERS	(2) 2× STUDS <sup>7</sup>	3,695	3,695	
HDU8	SSTB28	(20) <sup>1</sup> / <sub>4</sub> "øx2 <sup>1</sup> / <sub>2</sub> " SDS WOOD SCREWS	(3) 2x STUDS	7,870	5,665	
HDU11	SB1x30	(30) <sup>1</sup> / <sub>4</sub> "øx2 <sup>1</sup> / <sub>2</sub> " SDS WOOD SCREWS	4x6 MINIMUM	9,535	6,865	

1. HOLDOWNS SPECIFIED ARE AS MANUFACTURED BY SIMPSON ANCHOR TIE DOWN CO., INC; ACCEPTABLE EQUIVALENT PRODUCT SUBSTITUTIONS ARE AVAILABLE FROM OTHER MANUFACTURERS WITH SER APPROVAL. 2. LOCATE ALL HOLDOWNS AT ENDS OF ALL SHEAR WALLS & FASTEN TO BUNDLED END STUDS. 3. BUNDLED END STUDS SHOULD BE STITCH-NAILED TOGETHER USING MINIMUM (2) 16d @ 10"OC, UNO. 4. LOCATE "HDU#", "LSTHD#" & "STHD#" HOLDOWNS AT CONCRETE FOUNDATION LEVEL. (DETAIL B & C) LOCATE "CS#", "MST", "MSTC#" & "CMST#" STRAPS AT FLOOR-TO-FLOOR CONNECTIONS. (DETAIL A) 5. ALL HOLDOWN ANCHOR BOLTS SHALL BE MIN 5" FROM CONCRETE WALL ENDS. 6. USE "SSTB" FOR 2x SILL PLATES & "SSTBL" FOR 3x SILL PLATES.

7. ADDITIONAL END STUD REQUIRED TO MEET MINIMUM  $1\frac{1}{2}$ " EDGE DISTANCE FROM CONCRETE CORNER TO "STHD" STRAP. USE "RJ" STYLE WITH "STHD" WHERE RIM JOIST IS PRESENT.

8. INSTALL ALL HOLDOWN HARDWARE PER MANUFACTURER'S INSTRUCTIONS & RECOMMENDATIONS.

## HOLDOWN SCHEDULE

SCALE: N.T.S.

		W		SHEAR WALL -FIR/DOUG-FIR STUD FRAMIN		E		
SW	SW SW SHEATHING NAIL SIZE & RIM JOIST OR BLOCKING		RIM JOIST OR BLOCKING	BOTTOM PLATE & EI	DGE MEMBER	SILL PLATE REQUIF	SHEAR LOAD	
TYPE	APA-RATED [1, 2, 12]	SPACING @ PANEL EDGES  [4, 5, 6]	ATTACHMENT TO TOP PLATE BELOW [8, 9]	SHEAR NAILING TO WOOD FRAMING BELOW	BOTTOM PL AT FRAMING	ANCHOR BOLT TO CONCRETE FOUNDATION [10]	SILL PL AT FOUNDATION	CAPACITY (PLF)
SW-6	15/32" CD-EXT	0.131"ø x 2 <sup>1</sup> / <sub>2</sub> " @ 6"0C	CLIP @ 18"0C	0.148"ø x 3 <sup>1</sup> / <sub>4</sub> " @ 6"0C	2×	<sup>5</sup> / <sub>8</sub> "ø @ 48"0C	P.T. 2x	260
C) 1/4	15 /70" OD EVI	$0.131$ "ø x $2^{1}/_{2}$ "	)		7	<sup>5</sup> / <sub>8</sub> "ø ⊚ 32"0C	P.T. 2x	700
SW-4	15/32" CD-EXT	@ 4"OC	CLIP @ 14"OC	0.148"ø x 4" @ 4"OC	3x [15]	<sup>5</sup> / <sub>8</sub> "ø @ 48"0C	P.T. 3x [15]	380
O.W. 7	15 /70" OD 5VI	$0.131$ "ø x $2\frac{1}{2}$ "	0117 0 40700	0.148"ø x 4" @ 4"OC	)	<sup>5</sup> / <sub>8</sub> "ø @ 24"0C	P.T. 2x	400
SW-3	15/32" CD-EXT	@ 3"OC, STAGGERED	CLIP @ 12"OC	& CLIP @ 18"0C	3x [15]	<sup>5</sup> / <sub>8</sub> "ø @ 32"00	P.T. 3x [15]	490
OW 0	15 /70" OD 5VT	$0.131$ "ø x $2^{1}/_{2}$ "	21.17. 0. 0.00	0.148"ø x 4" @ 4"OC	{	<sup>5</sup> / <sub>8</sub> "ø @ 16"0C	P.T. 2x	0.40
SW-2	15/32" CD-EXT	@ 2"OC, STAGGERED	CLIP @ 8"OC	& CLIP @ 16"OC	3x [15]	<sup>5</sup> / <sub>8</sub> "ø @ 24"0C	P.T. 3x [15]	640
2SW-4	15/32" CD-EXT BOTH SIDE	0.131"ø x $2^{1}/_{2}$ " @ 4"OC, STAGGERED	CLIP @ 6"OC	0.148"ø x 4" @ 4"0C & CLIP @ 12"0C	3x [15]	<sup>5</sup> / <sub>8</sub> "ø ⊚ 24"0C	P.T. 3x	760
2SW-3	15/32" CD-EXT BOTH SIDE	0.131"ø x $2^{1}/_{2}$ " @ 3"0C, STAGGERED	CLIP @ 8"OC BOTH SIDES, STAGGERED	0.148"ø x 4" @ 4"0C & CLIP @ 8"0C	3x [15]	<sup>5</sup> ∕ <sub>8</sub> "ø @ 16"0C	P.T. 3x	980
2SW-2	15/32" CD-EXT BOTH SIDE	0.131"ø x $2^{1}/_{2}$ " @ 2"OC, STAGGERED	CLIP @ 6"OC BOTH SIDES, STAGGEREN	0.148"ø x 4" @ 4"0C & CLIP @ 5"0C	3x [15]	<sup>5</sup> ∕ <sub>8</sub> "ø @ 12"0C	P.T. 3x	1280

1. INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY

- 2. WHERE SHEATHING IS APPLIED ON BOTH SIDES OF WALL, PANEL EDGE JOINTS ON 2x FRAMING SHALL BE STAGGERED SO THAT JOINTS ON OPPOSITE SIDES ARE NOT LOCATED ON THE SAME
- 3. BLOCKING IS REQUIRED AT ALL PANEL EDGES.
- 4. PROVIDE SHEAR WALL SHEATHING AND NAILING FOR ENTIRE LENGTH OF THE WALLS INDICATED ON THE PLANS. ENDS OF FULL HEIGHT WALLS ARE DESIGNATED BY WINDOWS, OR DOORWAYS OR AS DESIGNATED ON PLANS. HOLDOWN REQUIREMENTS PER PLANS.
- ETC. ABOVE AND BELOW ALL OPENINGS). 6. SHEATHING EDGE NAILING IS REQUIRED AT ALL HOLDOWN POSTS. EDGE NAILING MAY ALSO BE REQUIRED TO EACH STUD USED IN BUILT-UP HOLDOWN POSTS. ADDITIONAL INFORMATION PER
- HOLDOWN SCHEDULE & DETAILS. 7. INTERMEDIATE FRAMING TO BE 2x MINIMUM MEMBERS. ATTACH SHEATHING TO INTERMEDIATE FRAMING 13. AT ADJOINING PANEL EDGES, (2) 2x STUDS NAILED TOGETHER MAY BE USED IN PLACE OF SINGLE 3x WITH 0.148"Ø x  $2\frac{1}{2}$ " NAILS AT 12"OC WHERE STUDS ARE SPACED AT 16"OC AND 0.148"Ø x  $2\frac{1}{2}$ "
- NAILS AT 6"OC WHERE STUDS ARE SPACED AT 24"OC. 8. BASED ON 0.131"Ø x  $1\frac{1}{2}$ " NAILS USED TO ATTACH FRAMING CLIPS DIRECTLY TO FRAMING. USE 0.131"Ø x  $2\frac{1}{2}$ " nails where installed over sheathing.
- 9. FRAMING CLIPS: SIMPSON "A35" OR "LTP5" OR APPROVED EQUIVALENT.
- WOOD-FRAMED SHEAR WALL SCHEDULE

- 10. ANCHOR BOLTS SHALL BE PROVIDED WITH HOT-DIPPED GALVANIZED STEEL PLATE WASHERS 3"x3"x0.229"(MIN). THE HOLE IN THE PLATE WASHER MAY BE DIAGONALLY SLOTTED  $^{13}/_{16}"x1^{3}/_{4}"$ PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND NUT. PLATE WASHER TO EXTEND TO WITHIN 1/2" OF THE EDGE OF THE SILL PLATE ON THE SIDE(S) WITH SHEATHING. WHERE SHEAR WALLS ARE SHEATHED ON BOTH SIDES OF 2x6 WALL FRAMING, USE
- 4.5"x4.5"x0.229"(MIN) PLATE WASHERS. EMBED ANCHOR BOLTS 7" MINIMUM INTO THE CONCRETE. 11. PRESSURE TREATED MATERIAL CAN CAUSE EXCESSIVE CORROSION IN THE FASTENERS. PROVIDE HOT-DIPPED GALVANIZED (ELECTRO-PLATING IS NOT ACCEPTABLE) NAILS AND CONNECTOR PLATES 5. SHEAR WALLS DESIGNATED AS PERFORATED SHEAR WALLS REQUIRE SHEATHING, SHEAR WALL NAILING, (FRAMING ANGLES, ETC.) FOR ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED FRAMING MEMBERS. ADDITIONAL INFORMATION PER STRUCTURAL NOTES.
  - 12. WHERE WOOD SHEATHING IS APPLIED OVER GYPSUM SHEATHING, CONTACT THE ENGINEER OF RECORD FOR ALTERNATE NAILING REQUIREMENTS.
  - STUD. DOUBLE 2X STUDS SHALL BE CONNECTED TOGETHER BY NAILING THE STUDS TOGETHER WITH 3" LONG NAILS OF THE SAME SPACING AND DIAMETER AS THE PLATE NAILING.
  - 14. CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ADHESIVE OR EXPANSION BOLT ALTERNATIVES TO CAST-IN-PLACE ANCHOR BOLTS. SPECIAL INSPECTION MAY BE REQUIRED. 15. NAIL STUDS TO 3x BOTTOM/SILL PLATES WITH EITHER (2) 0.148"Øx4" END NAILS OR

(4) 0.131" $\emptyset$ x2 $\frac{1}{2}$ " TOENAILS.

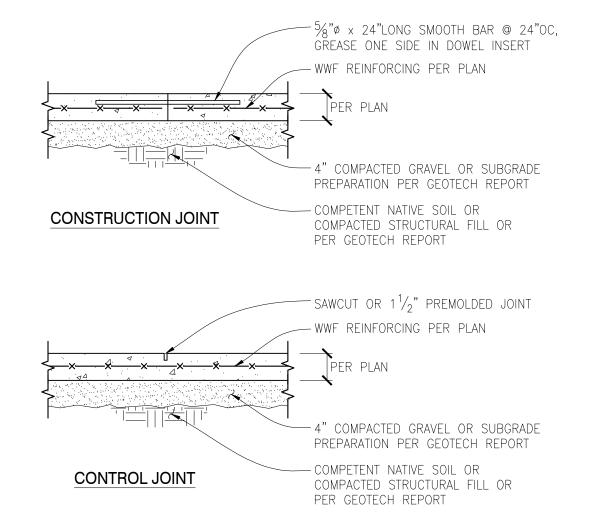
Drawn By: PK Checked By: SC Date: 2-22-2021

CK JOB NO.

STRUCTURAL NOTES/SCHED.

# TYPICAL FOUNDATION FOOTING AND STEM WALL WITH SLAB ON GRADE

SCALE:  $\frac{3}{4}$ " = 1'-0"

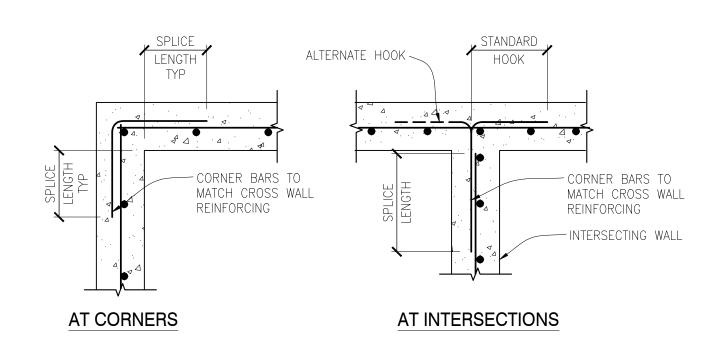


1. FOR CONSTRUCTION OR CONTROL JOINT LOCATIONS REFERENCE FOUNDATION/SLAB PLAN 2. USE "SOFTCUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST

3. PROVIDE CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS OF 225 SF MAX

TYPICAL SLAB ON GRADE JOINT DETAILS

SCALE: N.T.S.



SPLICE LENGTH

-BEARING/SHEAR WALL PER PLAN

LENGTH

28"

36"

SHEATHING & NAILING

PER SHEAR WALL

SCHEDULE ---

NOTES:	
1. WALL SIZE & REINFORCING PER PLAN. 2. CORNER BARS SIZE & SPACING TO MATCH HORIZONTAL REINFORCING.	
2. CONNER BANS SIZE & SPACING TO MATCH HUNIZONTAL REINFORCING.	_

TYPICAL CORNER BARS AT CONCRETE WALLS - SINGLE MAT SCALE: N.T.S.

ADD ADDITIONAL STUDS @ HOLDOWN STRAPS OR FLOOR-TO-FLOOR CONNECTIONS --BUNDLED STUDS PER PLAN OR @ HOLDOWN LOCATIONS ANCHOR BOLTS & P. WASHERS PER SHEAR WALL SCHEDULE — - HOLDOWN PER PLAN & SCHEDULE P.T. BOTTOM PLATE --ADD'L PL WASHER & T/FOUNDATION WALL NUT @ HOLDOWN ANCHOR BOLTS PER SHEAR WALL SCHEDULE T/FIN GRADE - ANCHOR BOLT & EMBED T/FOOTING PER HOLDOWN SCHEDULE — CONCRETE STEM WALL PER PLAN CONCRETE FOOTING PER PLAN

TYPICAL SHEAR WALL HOLDOWN CONNECTIONS AT FOUNDATION CONCRETE WALL SCALE: N.T.S.

> -10d NAILS @ 3"OC, EACH WAY @ HEADER

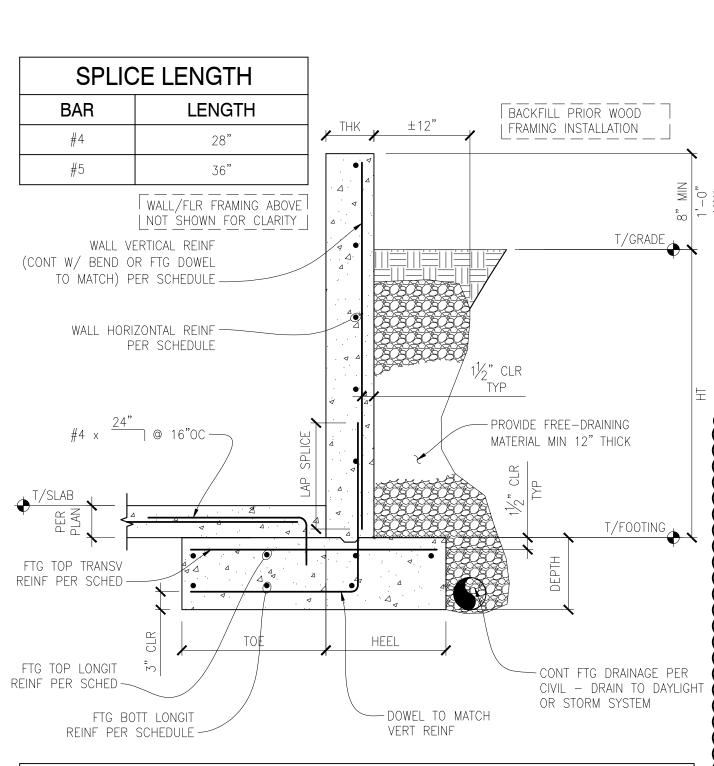
-HEADER PER PLAN -

TO HEADER, TYP

EXTEND OVER SHEAR WALL

-POST/STUDS PER PLAN

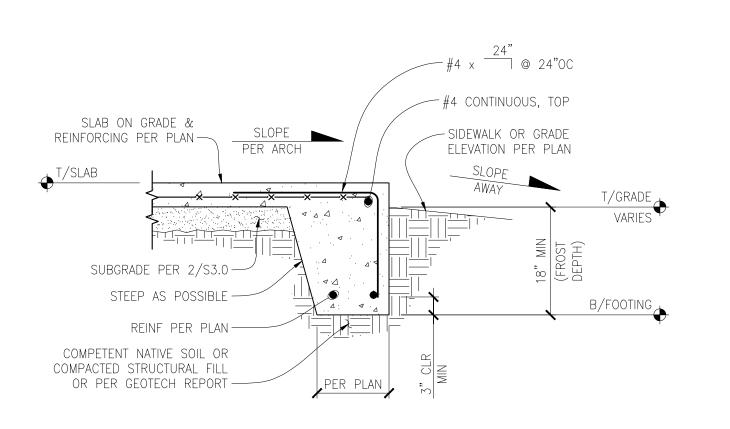
-MST27 STRAP @ WALL END STUDS



RETAINING WALL/FOOTING SCHEDULE									
WALL							FOOTIN	G	
SIZE REINFORCEMENT SIZE REINFORC			INFORCEM	IENT					
HT (MAX)	THK	VERTICAL	HORIZONTAL	TOE	HEEL	DEPTH	TOP/TRANSV	TOP/LONGIT	BOTTOM/LONGIT
4'-0"	8"	#4 @ 16"OC	#4 @ 12"OC	1'-0"	1'-0"	10"	#4 @ 16"OC	(3) #4	(2) #4
6'-0"	8"	#4 @ 12"OC	#4 @ 12"OC	2'-0"	1'-0"	10"	#4 @ 10"OC	(3) #4	(2) #4
8'-0"	8"	#5 @ 8"OC	#4 @ 12"OC	2'-9"	1'-9"	14"	#5 @ 8"OC	(4) #5	(4) #5
10'-0"	10"	#6 @ 8"OC	#5 @ 12"OC	4'-6"	1'-9"	16"	#6 @ 8"OC	(5) #6	(5) #6

RETAINING WALL AND SCHEDULE

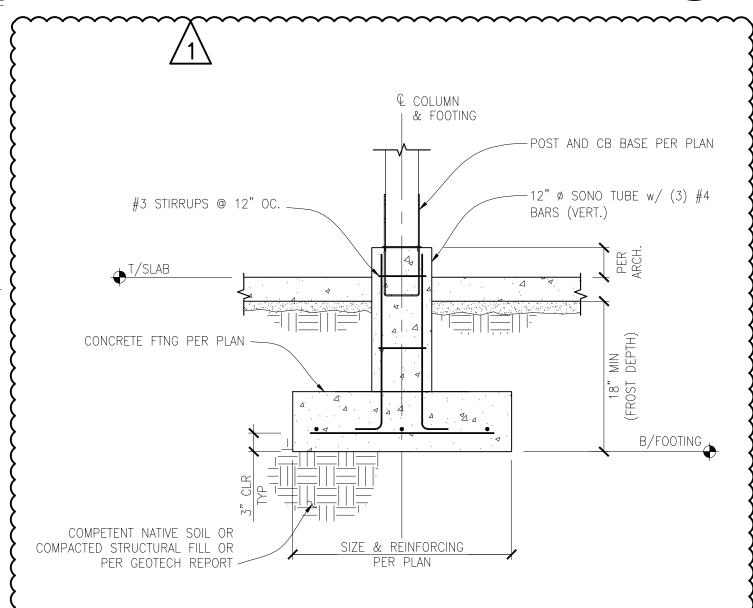
SCALE: N.T.S.

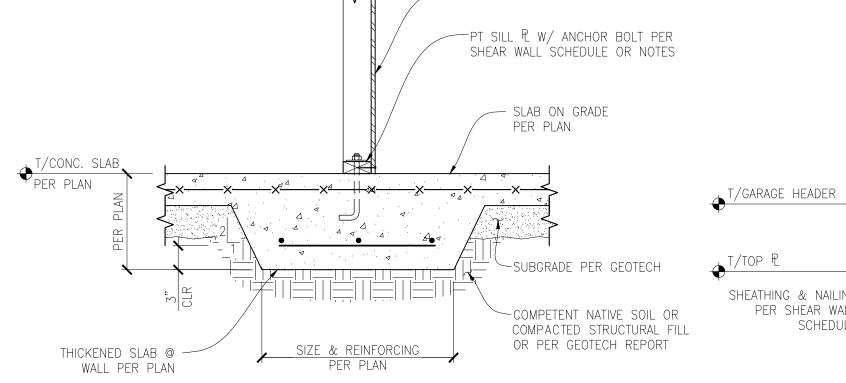




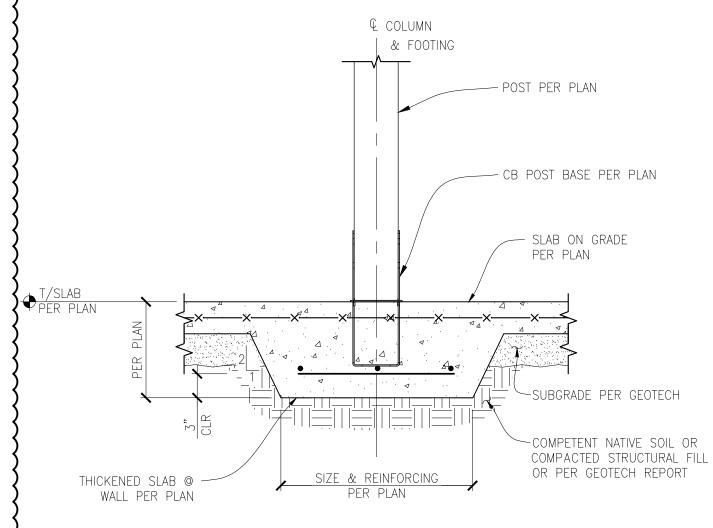
NEW FOOTING/POST CONNECTION

SCALE:  $\frac{3}{4}$ " = 1'-0"

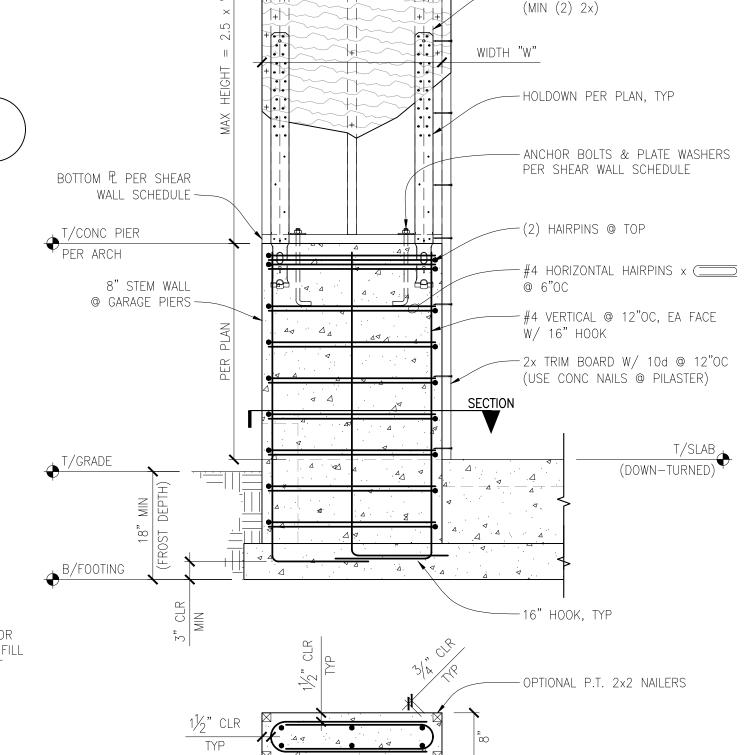




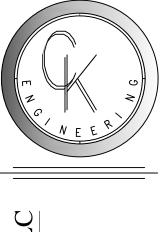




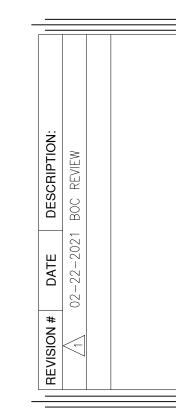
# TYPICAL INTERIOR THICKENED SLAB FOOTING AND WOOD POST CONNECTION SCALE: 1" = 1'-0"



GARAGE PORTAL SHEAR WALL SCALE:  $\frac{3}{4}$ " = 1'-0"



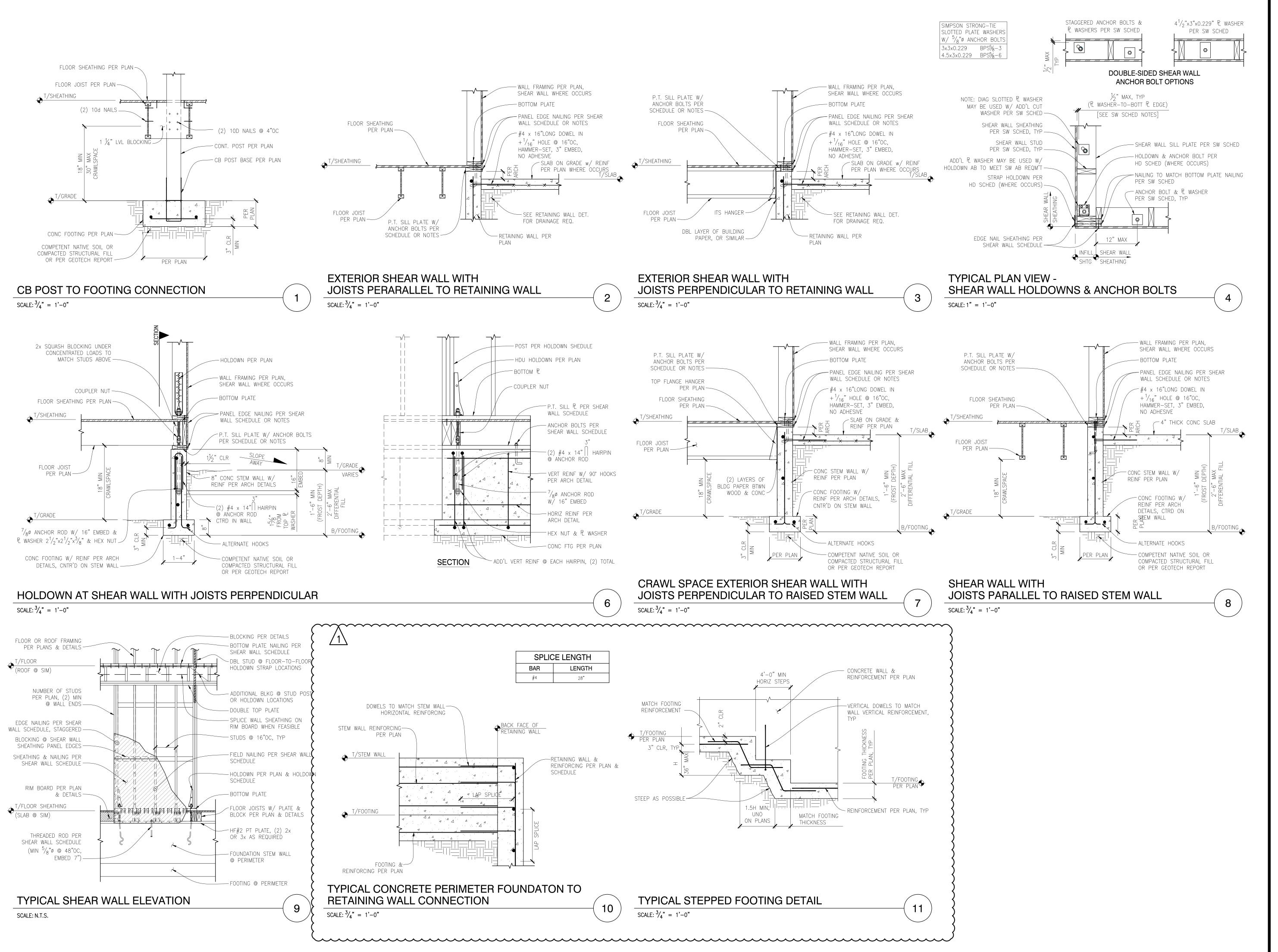
9027 S VERCER ISLA

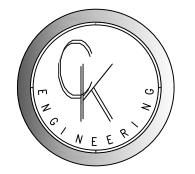


Drawn By: PK Checked By: SC Date: 2-22-2021

CK JOB NO. 19-061

STRUCTURAL DETAILS





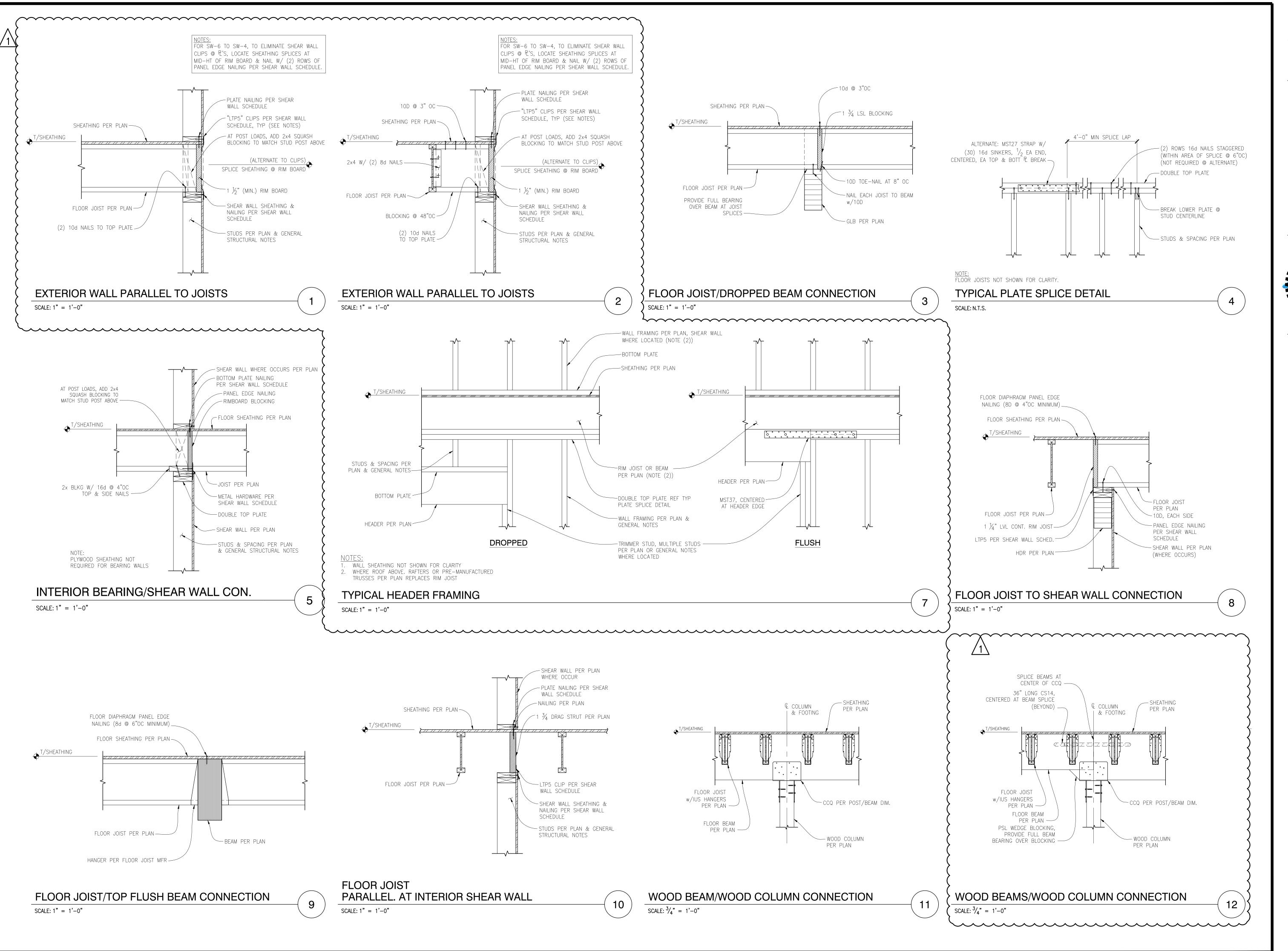
111 9027 VERCER ISL

TIMBI

Drawn By: PK Checked By: SC Date: 2-22-2021

CK JOB NO. 19-061

**STRUCTURAL** DETAILS



MEER O

R ENGINEERING LL
PROFESSIONAL STRUCTURAL
ENGINEERING SERVICES

WEN COO WASHING 44213 A4213 A4013 A4

TIMBERLAND
9027 SE 60TH ST
NERCER ISLAND, WA 98040

REVISION # DATE DESCRIPTION:

1 02-22-2021 BOC REVIEW

Drawn By: PK Checked By: SC Date: 2-22-2021

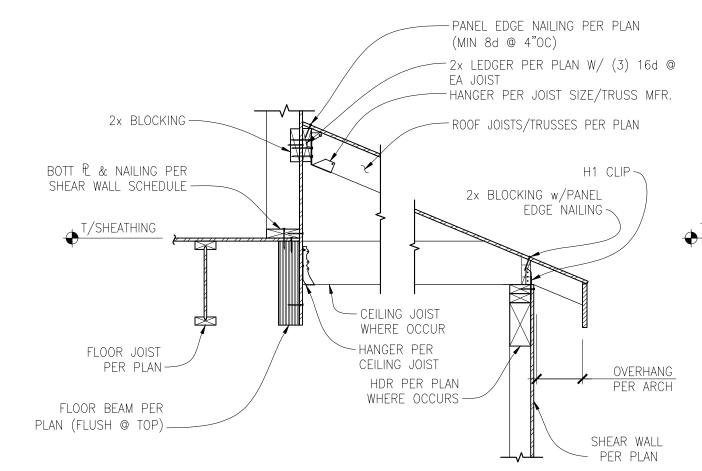
CK JOB NO.

19-061

STRUCTURAL

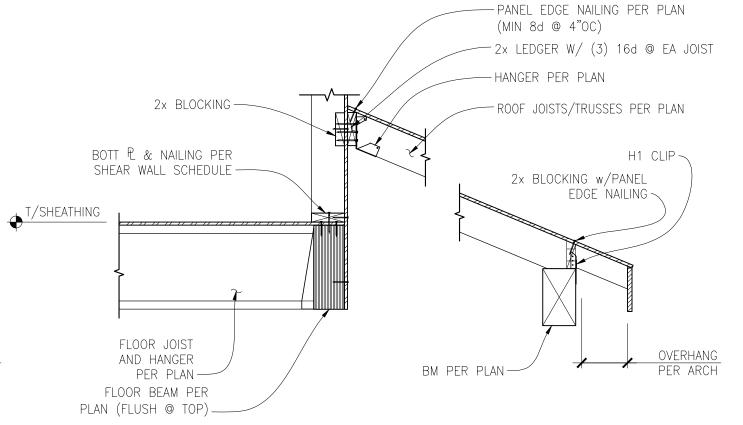
DETAILS

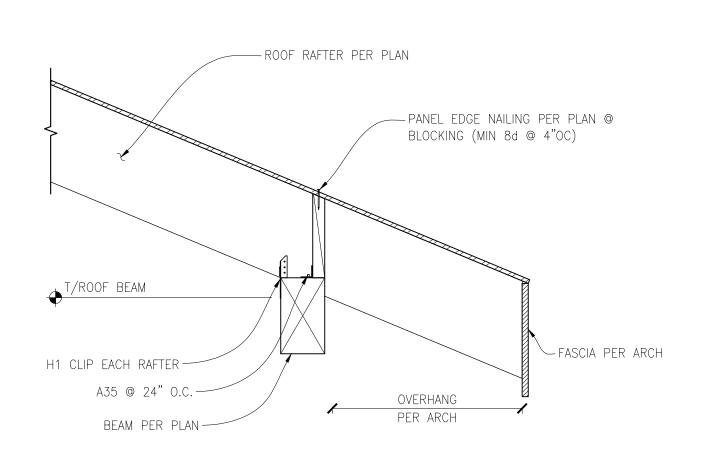
S-3.0



-2x CONTINUOUS BLOCKING W/ (3) 10d NAILS TO DIAPHRAGM

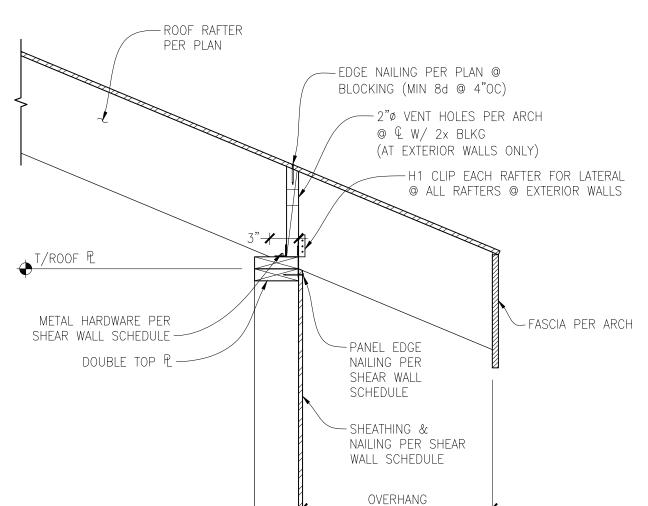
T/SHEATHING





# **UPPER FLOOR SHEAR WALL** TO MAIN FLOOR SHEAR WALL CONNECTION

SCALE:  $\frac{3}{4}$ " = 1'-0"





UPPER FLOOR SHEAR WALL TO MAIN FLOOR/ LOWER ROOF CONNECTION SCALE:  $\frac{3}{4}$ " = 1'-0"

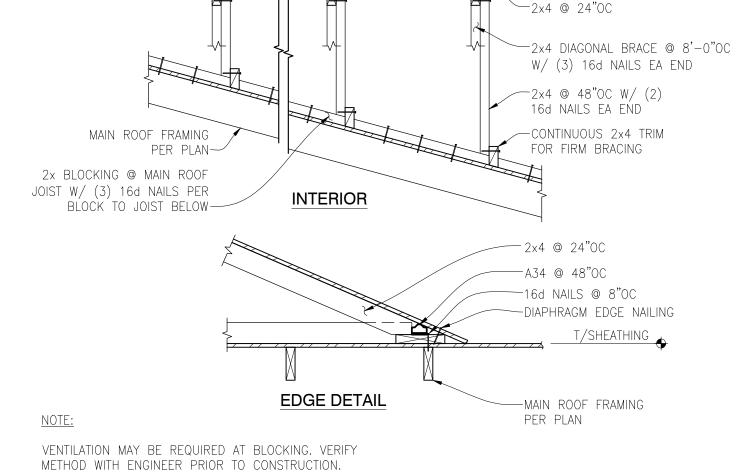
**EXTERIOR ROOF RAFTERS** TO ROOF BEAM CONNECTION

3

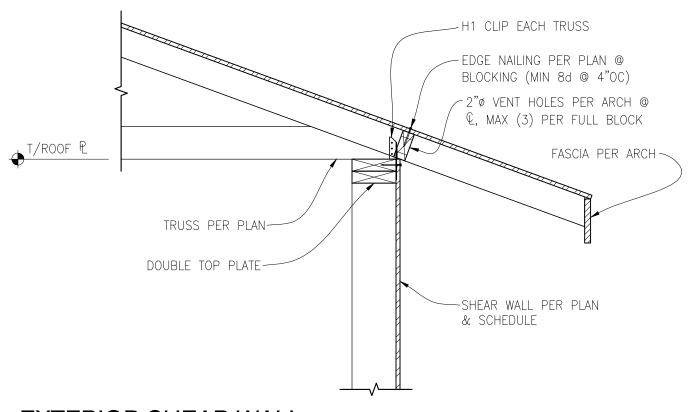
SCALE: 1" = 1'-0"

# PER ARCH

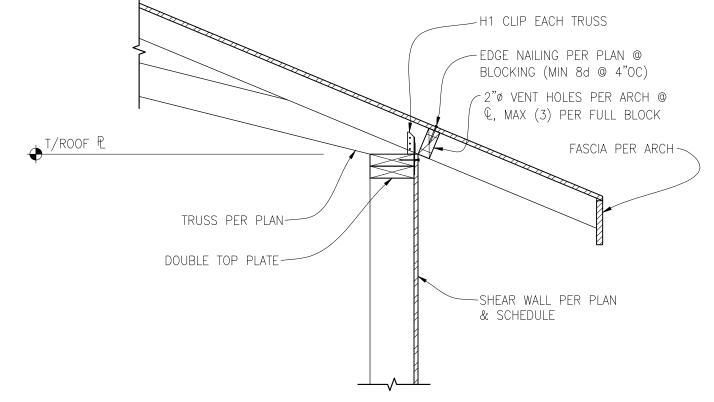




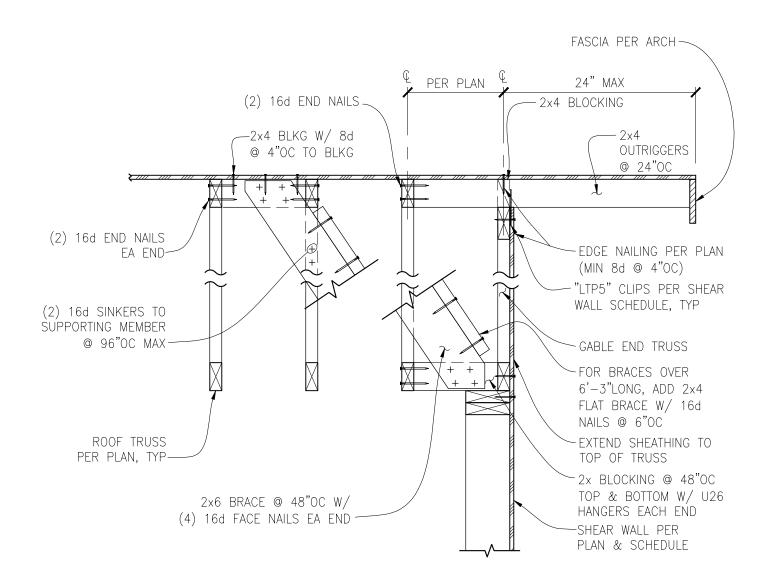
TYPICAL ROOF OVERFRAMING DETAIL SCALE: N.T.S.



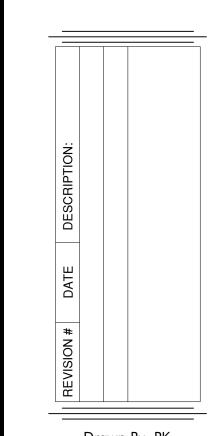
**EXTERIOR SHEAR WALL** PERPENDICULAR TO ROOF TRUSS CONNECTION SCALE: 1" = 1'-0"



**EXTERIOR SHEAR WALL** PERPENDICULAR TO ROOF TRUSS SCALE: 1" = 1'-0"



EXTERIOR SHEAR WALL PARALLEL TO ROOF TRUSS/ SCALE: N.T.S.



AND

 $\mathbf{I}$ 

TIMBI

9027 S VERCER ISLA

Drawn By: PK Checked By: SC Date: 1-13-2020

CK JOB NO. 19-061

**DETAILS** 

STRUCTURAL

3426 GARDEN AVENUE NORTH



LOWER FLOOR SCHEMATIC DUCT LAYOUT

Checked By: Approved By:

Issue Date:

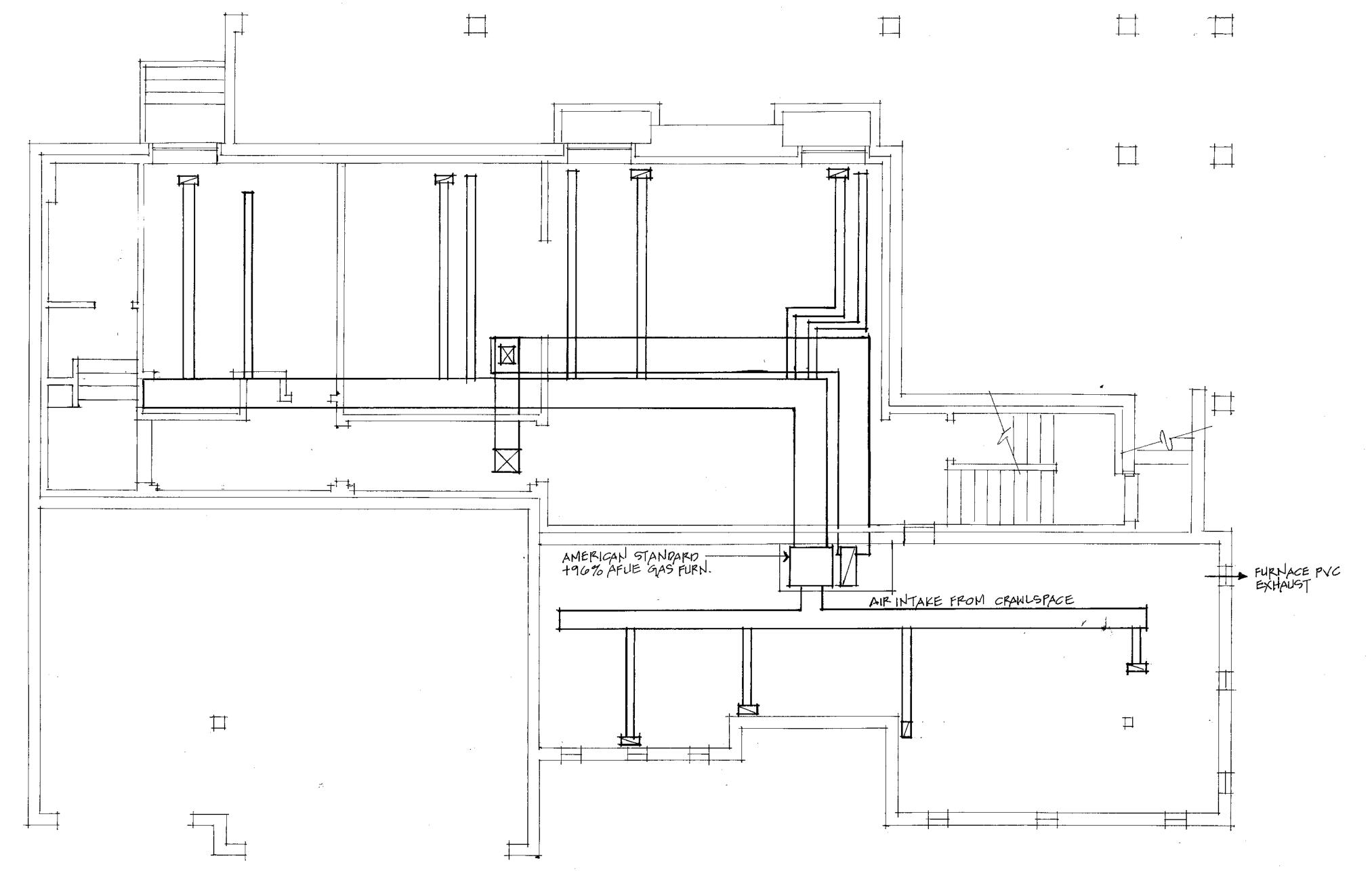
Revisions:

No. Description Date

2 REPHIT 2/22/21

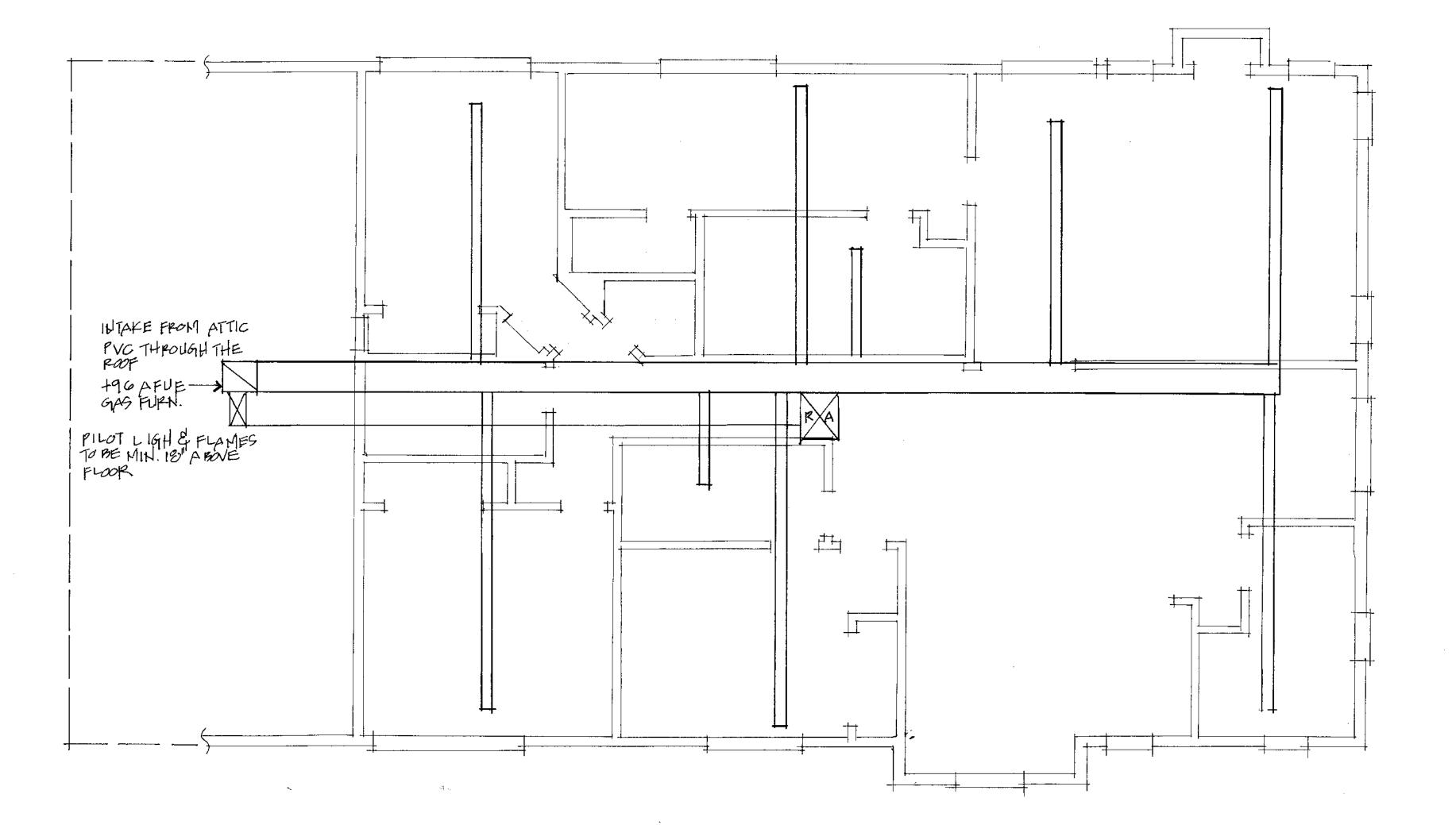
Scale: AS NOTED Sheet No.

M1



SCHEMATIC DUCT LAYOUT

A LOWER FLOOR PLAN









3426 GARDEN AVENUE NORTH RENTON, WASHINGON, 98056

email dambrosioarchitect@yahoo.co

REGISTERED ARCHITECT

ANTONIO DAMBROSIO
STATE OF WASHINGTON

BERLAND

UPPER FLOOR SCHEMATIC DUCT LAYOUT

Drawn By:
Checked By:
Approved By:

Issue Date:

Revisions:
No. Description

D PERMIT 2/22/21

cale:

Sheet No.

M2