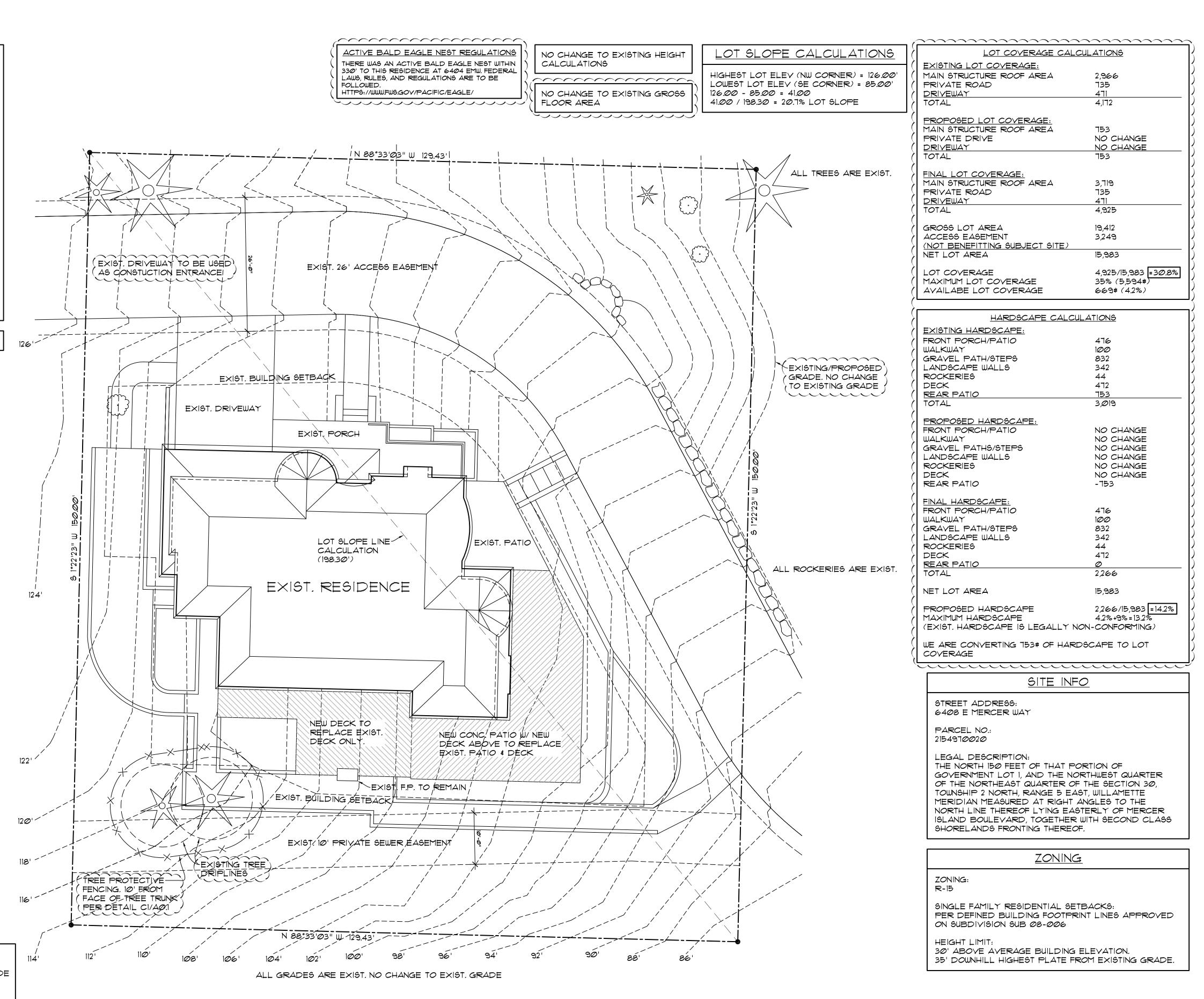


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ZHANG ADDITION 6408 E MERCER WAY ERCER ISLAND, WA 98040

JOB NO: 20-012 DATE: 10/16/20 DRWN. BY: MM REVISED: 6/04/21

SHEET NO.



PROJECT DATA:

SITE ADDRESS:

NOTES:

CONSTRUCTION SEQUENCE:

DEVELOPMENT

OR EQUIVALENT.

2. FLAG OR FENCE CLEARING LIMITS.

MANUFACTURER'S RECOMMENDATIONS.

SEDIMENTATION CONTROL REQUIREMENTS.

REMOVE TESC MEASURES IF APPROPRIATE.

I. HOLD AN ONSITE PRE-CONSTRUCTION MEETING.

3. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.

4. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

6. CONSTRUCT SEDIMENT POND(S) AND/OR TRAP(S).

5. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.)

1. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE

3. RELOCATE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW

10. COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN TWO DAYS DURING

THE WET SEASON (OCT. I TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON

(MAY I TO SEPT. 30) WITH STRAW, WOOD FIVER MULCH, COMPOST, PLASTIC SHEETING,

12. SEED OR SOD ANY AREAS TO REMAIN UN-WORKED FOR MORE THAN 30 DAYS.

13. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND

24 HOUR EROSION CONTROL CONTACT INFO: MASON MAWER - 425.417.7819

SIGNIFICANT

EXIST. TREE

CONT. CHAINLINK

AT MAX. 10' O.C.

FENCING POST

LOCATION AS SHOWN ON PLANS

FENCING SIGN PER DETAIL

BELOW

DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT

8. MAINTAIN TESC MEASURES IN ACCORDANCE WITH CITY STANDARDS AND

MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE WITH THE CITY OF YARROW POINT TEMPORARY EROSION AND

II. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.

CRITICAL ROOT ZONE

FENCING SIGN DETAIL

TREE PROTECTION AREA, ENTRANCE PROHIBITED. TO REPORT VIOLATIONS

CITY CODE ENFORCEMENT

MINIMUM SIX (6) FOOT HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT THE CRITICAL ROOT ZONE OR DESIGNATED LIMIT OF

DISTURBANCE OF THE TREE TO BE SAVED, FENCE SHALL COMPLETELY ENCIRCLE TREE(S). INSTALL FENCE POSTS USING PIER BLOCK ONLY. AVOID

MATERIAL AND LOCATION MUST BE APPROVED BY PLANNING OFFICIAL.

TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS

OVER ONE (1) INCH DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A

EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND COVERED WITH SOIL AS SOON AS POSSIBLE.

3. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF

EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE

BY THE CITY PLANNING OFFICIAL. WORK WITHIN PROTECTION FENCE SHALL

BE DONE MANUALLY UNDER THE SUPERVISION OF THE ON-SITE ARBORIST

(15) FEET ALONG THE FENCE. SIGN TO BE MINIMUM 11"XIT", AND MADE OF

AND WITH PRIOR APPROVAL BY THE CITY PLANNING OFFICIAL.

WEATHERPROOF MATERIAL.

TREE PROTECTION DETAIL

FENCING. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED

4. FENCING SIGNAGE AS DETAILED ABOVE MUST BE POSTED EVERY FIFTEEN

CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL

POST OR STAKES INTO MAJOR ROOTS. MODIFICATIONS TO FENCING

NEW LOWER FLOOR PATIO SLAB ON GRADE PROJECT DESCRIPTION: # MAIN FLOOR WEATHERPROOF DECK

6408 E MERCER WAY

MERCER ISLAND, WASHINGTON 98040 MATTHEW MAWER RESIDENTIAL DESIGN, INC. BUILDING DESIGN:

MATT MAWER PH: 425.417.7817

MAWER BROTHERS LLC CONTRACTOR: MASON MAWER PH: 425.417.7819

STRUCT. ENGINEER: MDT ENGINEERING MICHELLE THOMPSON

PATIO/DECK. PH: 253.887.8725

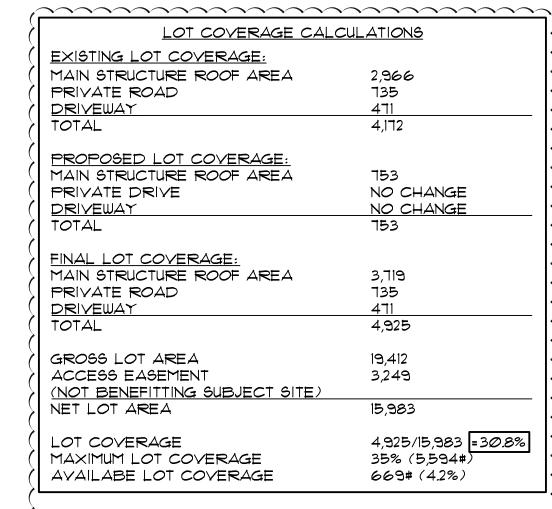
SCOPE OF WORK: LOWER FLOOR - REPLACE EXISTING PATIO PAVERS W/ NEW CONCRETE SLAB ON GRADE. MAIN FLOOR - REPLACE EXISTING DECK W/ NEW WEATHERPROOF 1/4" PER 12" SLOPED DECK W/ LEVEL COMPOSITE DECKING ON SLEEPERS. NO WORK TO BE DONE OUTSIDE SCOPE OF EXISTING

SITE PLAN

SCALE: 1" = 10'

6408 E MERCER WAY MERCER ISLAND, WA 98040

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HARDSCAPE CALCULATIONS		
EXISTING HARDSCAPE:		
FRONT PORCH/PATIO	476	
WALKWAY	100	
GRAVEL PATH/STEPS	832	
LANDSCAPE WALLS	342	
ROCKERIES	44	
(DECK	472	
(REAR PATIO	753	
(TOTAL	3,019	
PROPOSED HARDSCAPE:		
FRONT PORCH/PATIO	NO CHANGE	
) WALKWAY	NO CHANGE	
GRAVEL PATHS/STEPS	NO CHANGE	
(LANDSCAPE WALLS	NO CHANGE	
(ROCKERIES	NO CHANGE	
(DECK	NO CHANGE	
REAR PATIO	-753	
FINAL HARDSCAPE:		
FRONT PORCH/PATIO	476	
(WALKWAY	100	
(GRAVEL PATH/STEPS	832	
(LANDSCAPE WALLS	342	
ROCKERIES	44	
) DECK	472	
REAR PATIO	0	
TOTAL	2,266	
NET LOT AREA	15,983	
PROPOSED HARDSCAPE	2,266/15,983 = 14.2%	
MAXIMUM HARDSCAPE	4.2%+9%=13.2%	
(EXIST. HARDSCAPE IS LEGALLY NON-CONFORMING)		
WE ARE CONVERTING 153# OF HARDSCAPE TO LOT COVERAGE		

ZHANG ADDITION
6408 E MERCER WAY
MERCER ISLAND, WA 98040

JOB NO: 20-012

DATE: 10/16/20

DRWN. BY:MM

REVISED: 6/04/21

matthew mawer

lifestyle

SHEET NO.

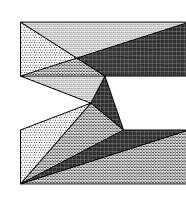
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LOT COVERAGE & HARDSCAPE CALCULATIONS

SCALE: 1" = 10"

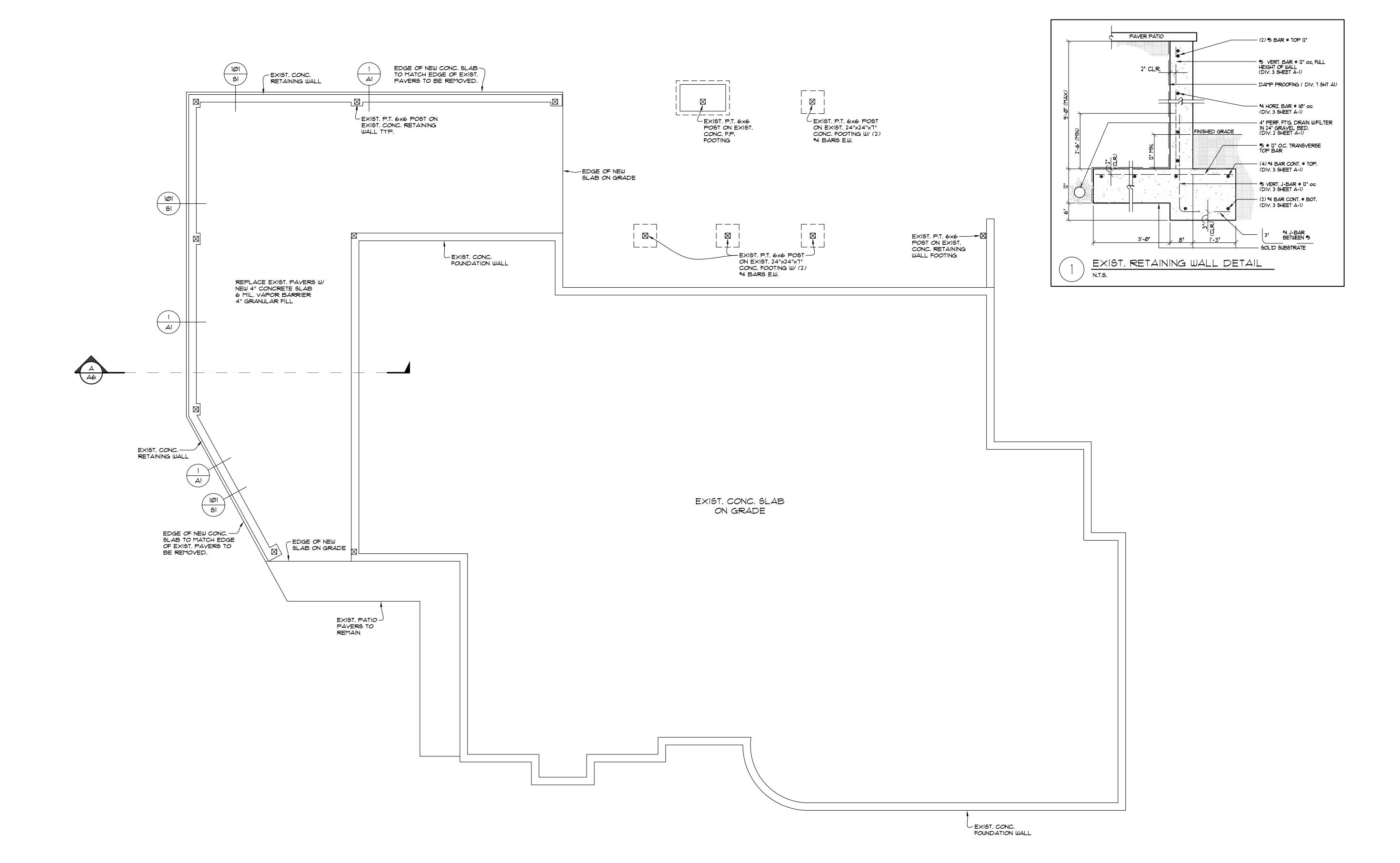
6408 E MERCER WAY MERCER ISLAND, WA 98040



lifestyle

ZHANG ADDITION 6408 E MERCER WAY MERCER ISLAND, WA 98040

JOB NO: 20-012 DATE: 10/16/20 DRWN. BY:MM REVISED: 6/04/21



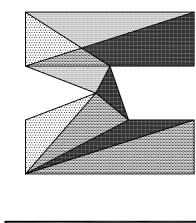
1,685#

2,161#

1,871#

5,717#

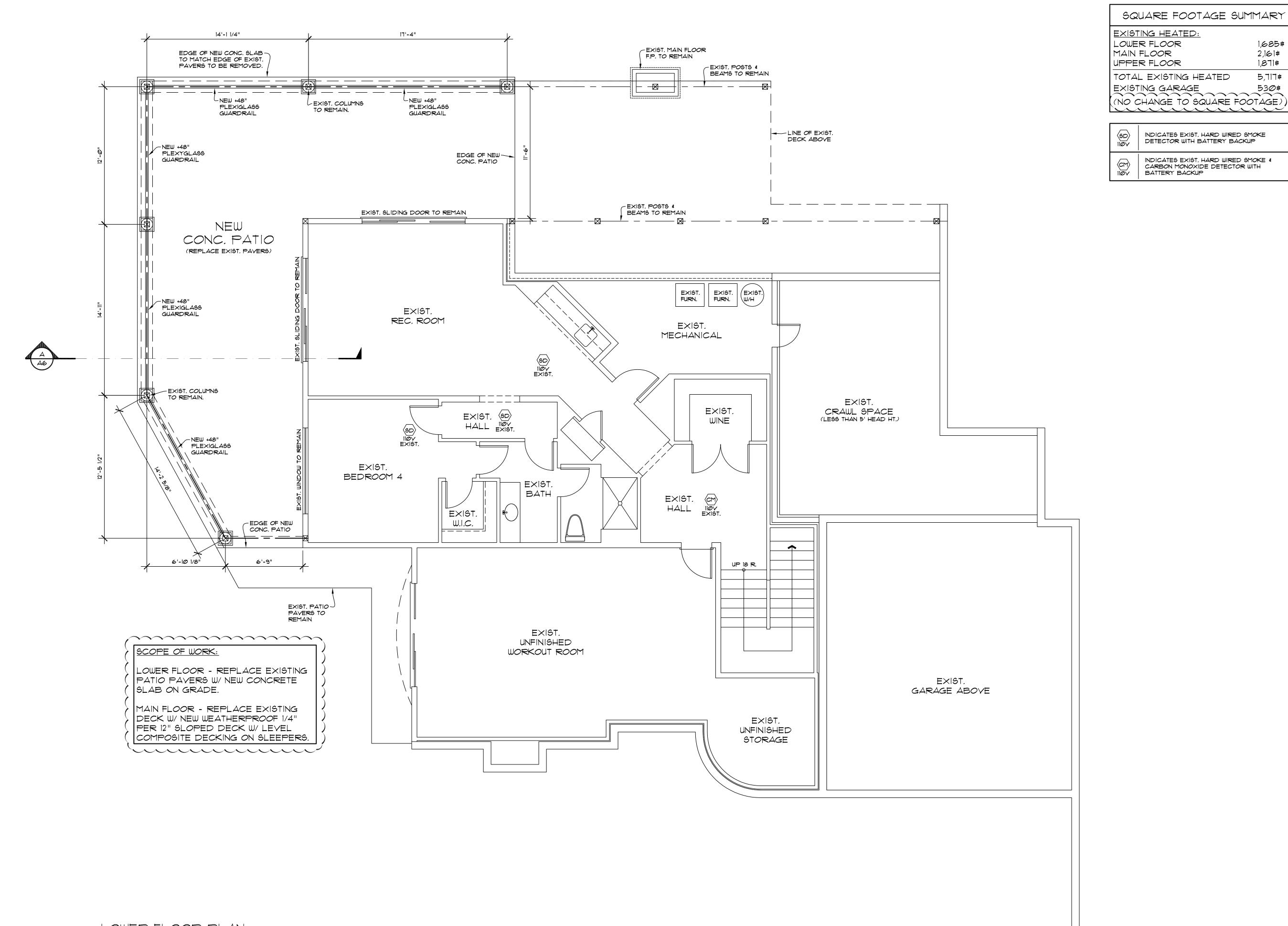
INDICATES EXIST. HARD WIRED SMOKE DETECTOR WITH BATTERY BACKUP



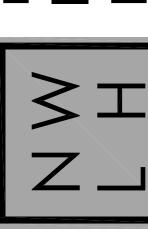
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ZHANG ADDITION 6408 E MERCER WAY MERCER ISLAND, WA 98040

JOB NO: 20-012 10/16/20 DATE: DRWN. BY:MM REVISED: 6/04/21



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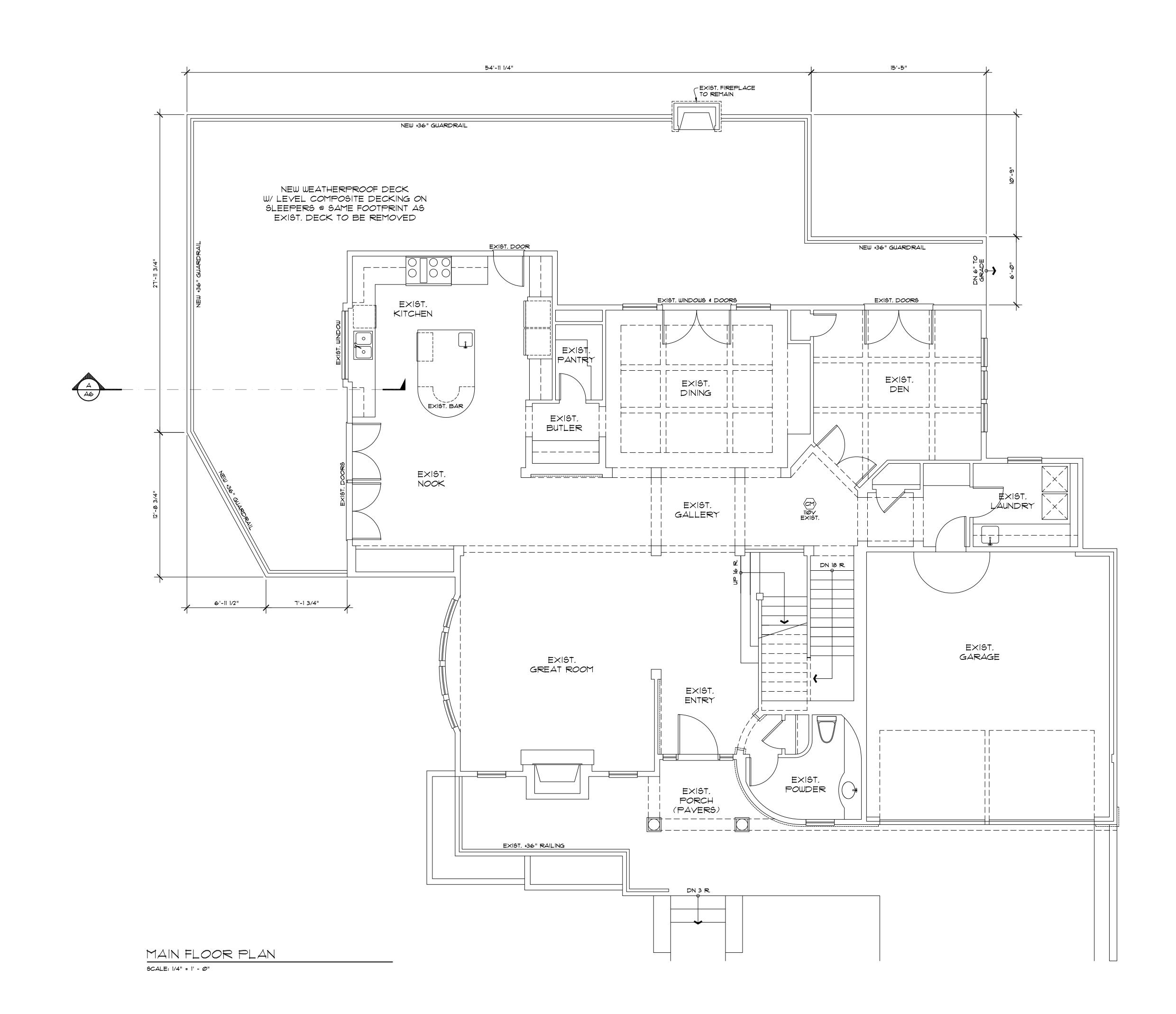


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SHEET NO.

A3

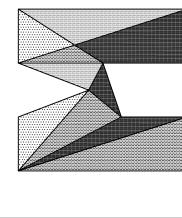


~WEATHERPROOF

9 1/2" TJI JOISTS @16" O.C. SLOPED 1/4" PER 12" TO DRAIN

SLEEPERS. ALIGN W/ TJI'S BELOW

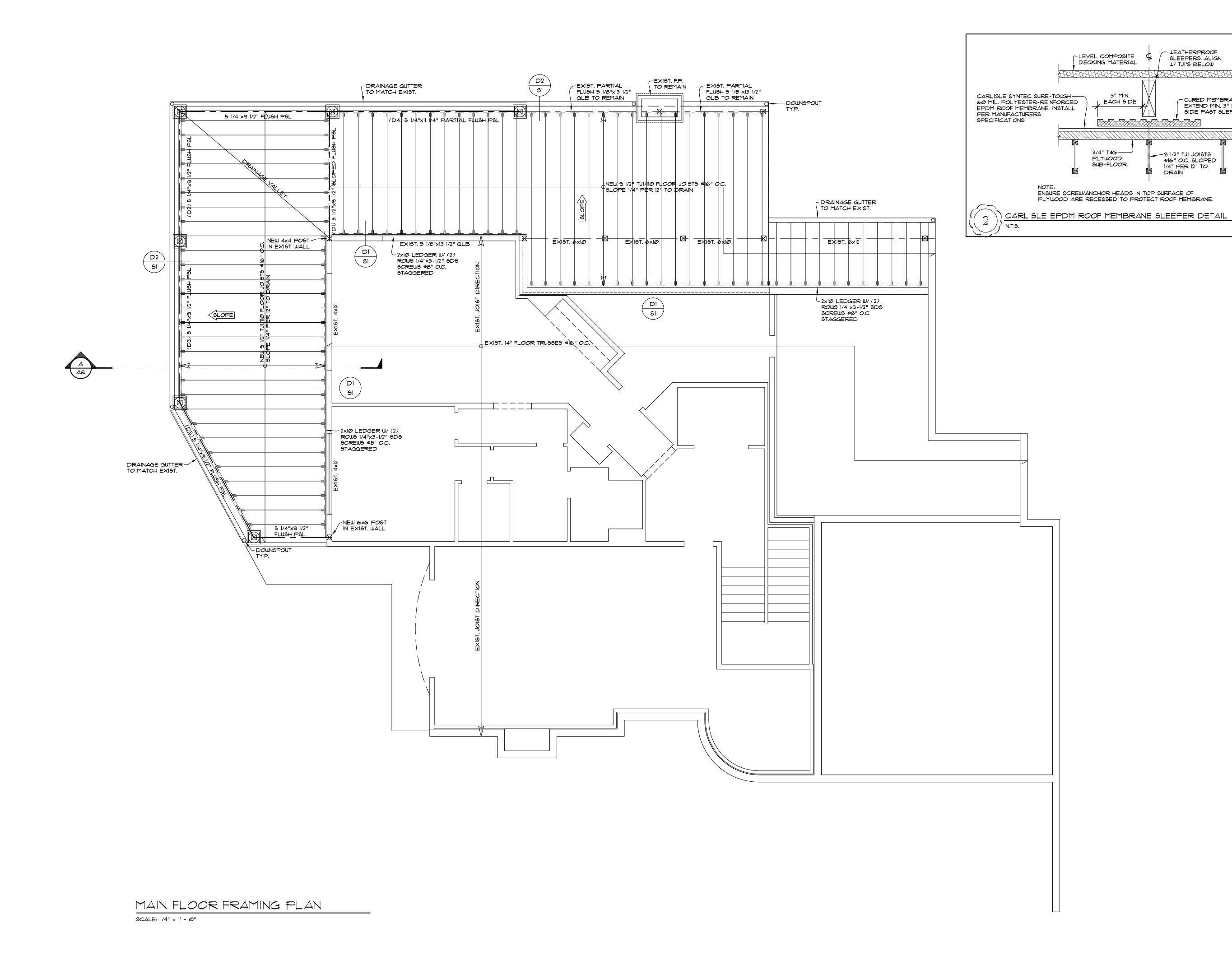
CURED MEMBRANE. EXTEND MIN. 3" EACH SIDE PAST SLEPPERS

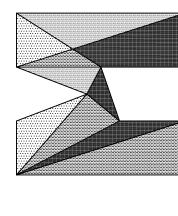


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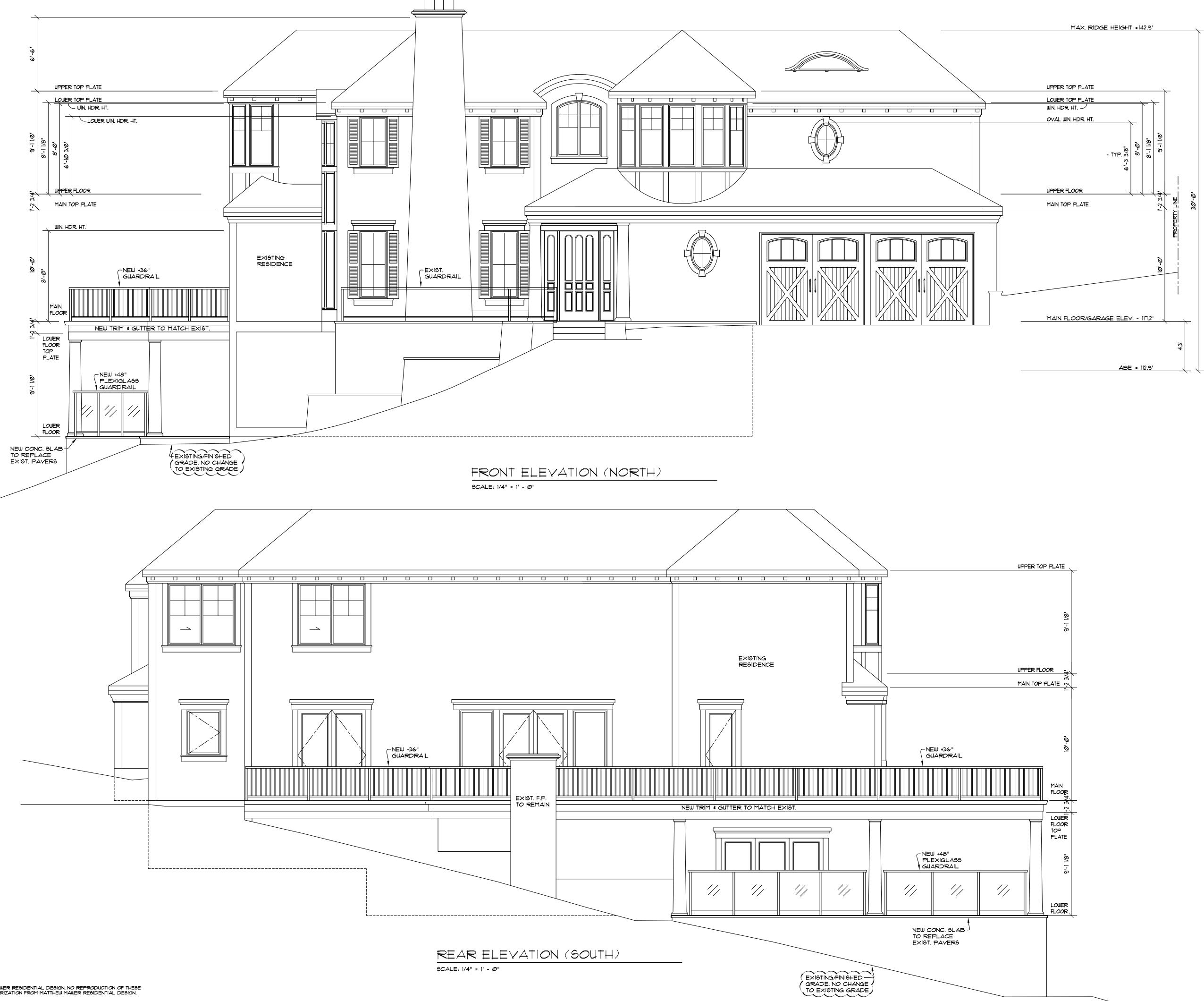


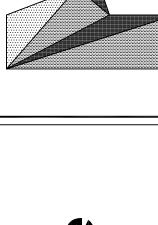


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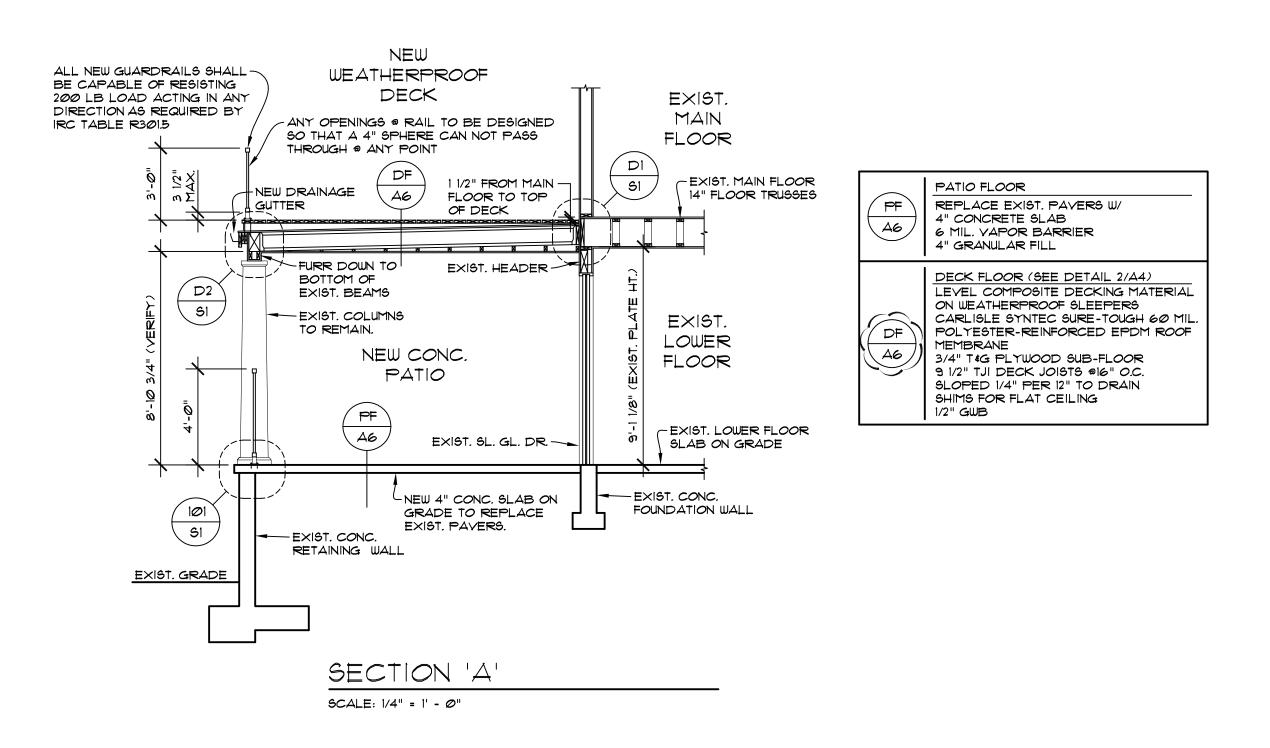


ZHANG ADDITION 6408 E MERCER WAY MERCER ISLAND, WA 98040

JOB NO: 20-012 DATE: 10/16/20 DRWN. BY:MM REVISED: 6/04/21

A6





MAWER-ZHANG



REVISION DATES: REV. 5-19-21

ANG	SHEET TITLE: STRUCTURAL NOTES
PROJECT: MAWER-ZHANG	SHEET 11T.E. STRUCTURA
	RS LS
SCALE:	DATE:
NO SCALE	10-14-20
DRAWN BY:	SHEET NO.
MDT	
PROJECT NO.	<_1
MAWER-ZHANG	

 JOISTS PER PLAN NEW CONC. SLAB ON GRADE PER PLAN 1. 2x STUD WALL 2. SIMPSON H2.5 @ EACH TRUSS 2. EX. SHEATHING AND NAILING 2. #4 @ 24" OC — DRILL & EPOXY 3. LEVEL COMPOSITE DECKING MATERIAL TO EX. CONC. — EMBED 6" 4. POST AND POST CAP PER PLAN 3. EX. BOTTOM PLATE NAILING 3. EXISTING CONCRETE WALL 5. BEAM PER PLAN 4. EX. EDGE NAILING 6. RAILING AND ATTACHMENT BY OTHERS 5. DECK JOISTS PER PLAN 6. SIMPSON DTT1Z @ 48" OC W/ SDWH SCREW 7. TREATED 2X LEDGER W/ 2 ROWS 1/4" X 3 1/2" SDS SCREWS @ 8" OC STAGGERED / 3/4"=1'-0" / 3/4"=1'-0" / 3/4"=1'-0"

 INTERNATIONAL BUILDING CODE, 2015 EDITION, ASCE 7-10
 INTERNATIONAL RESIDENTIAL CODE, 2015 EDITION 3. SIMPSON STRONG TIE WOOD CONSTRUCTION CONNECTORS 2019-2020 4. FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD MUST BE STAINLESS STEEL, ZMAX(G185HDG PER ASTM A653). BATCH/POST HOT-DIP GALVANIZED (PER ASTM B695, CLASS 55 OR GREATER). UNCOATED AND PAINTED PRODUCTS SHOULD NOT BE USED WITH TREATED WOOD. WHEN USING STAINLESS STEEL HOT-DIP GALVANIZED CONNECTORS, THE CONNECTORS AND FASTENERS SHOULD BE MADE OF THE SAME MATERIAL. 1. WIND LOAD: INTERNATIONAL BUILDING CODE, 2015, ASCE 7-10, ALTERNATE ALL-HEIGHTS METHOD, ULTIMATE DESIGN WIND SPEED = 110 MPH, NOMINAL DESIGN WIND SPEED = 85 MPH, EXPOSURE B 2. SEISMIC: INTERNATIONAL BUILDING CODE, 2015, ASCE 7-10 RISK CATEGORY II, SEISMIC IMPORTANCE CATEGORY, Ie=1.0 MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, Ss=1.5, S1=0.5 DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS, Sds=1.0g, Sd=0.5g BASIC SEISMIC FORCE-RESISTING SYSTEM: LIGHT FRAME WALLS WITH WOOD SHEAR WALLS DESIGN BASE SHEAR, V + F(Sds)(W)/R = 0.1846WRESPONSE MODIFICATION COEFFICIENT, R=6.5 ANALYSIS PROCEDURE USED: SIMPLIFIED ALTERNATIVE STRUCTURAL DESIGN FOR SIMPLE BEARING WALL SYSTEMS 3. ROOF LOAD: DL = 15 PSF LL = 25 PSF (ROOF SNOW LOAD)4. FLOOR LOAD: DL = 10 PSF LL = 40 PSF5. DECK LOAD: DL = 10 PSF LL = 60 PSF

7. CONCRETE: 3000 PSI @ 28 DAYS (2500 PSI USED FOR DESIGN) GRADE 40 REINFORCEMENT MINIMUM 3" COVER FOR ALL REINFORCEMENT EXCEPT AS NOTED AT RETAINING WALL OR OTHER DETAILS.

6. SOILS: ASSUMED 1000 PSF ALLOWABLE SOIL BEARING
ASSUMED 35 PCF ACTIVE SOIL PRESSURE, 350 PCF PASSIVE PRESSURE, 0.35 COEFFICIENT OF FRICTION
ALL FOOTINGS AND SLABS SHALL BEAR ON UNDISTURBED SOIL OR FILL COMPACTED TO 95% MODIFIED PROCTOR.

TIMBER CONSTRUCTION DETAILS

SEISMIC DESIGN CATEGORY, D2

STRUCTURAL NOTES

DESIGN CRITERIA

SITE CLASS D

CODES AND SPECIFICATIONS

1. LUMBER GRADES AND ALLOWABLE STRESSES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON PLANS: ALL SAWN LUMBER HF#2 OR BETTER, Fb = 875 PSI, Fv = 75 PSI, E = 1,300,000

24F-V4, Fb = 2400 PSI, Fv = 165 PSI, E = 1,800,000 GLULAM BEAMS Fb = 2600 PSI, Fv = 285 PSI, E = 1,900,000MICROLAM, LVL

Fb = 2600 PSI, Fv = 290 PSI, E = 2,900,0002. WHEN TOP PLATE IS INTERRUPTED BY HEADER, HEADER SHALL HAVE STRAP CONNECTORS TO THE TOP PLATE EACH END. USE

2-SIMPSON MSTA24 CONNECTORS, UNLESS NOTED OTHERWISE.

3. ALL SHEAR WALL SHEATHING, NAILS AND ANCHORS SHALL BE AS DETAILED ON THE DRAWINGS AND AS NOTED IN THE SHEAR WALL

4. FLOOR SHEATHING SHALL BE ₹ MINIMUM APA RATED FLOOR SHEATHING WITH 10d COMMON @ 6"OC AT ALL SUPPORTED PANEL EDGES AND 10d @ 12"OC AT INTERMEDIATE SUPPORTS.

5. ROOF SHEATHING SHALL BE 76" MINIMUM APA RATED ROOF SHEATHING WITH 8d COMMON @ 6"OC AT ALL SUPPORTED PANEL EDGES AND 8d @ 12"OC AT INTERMEDIATE SUPPORTS.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD. ANY VARIATIONS FROM THE DRAWINGS SHALL BE BROUGHT TO THE

ATTENTION OF THE DESIGNER OR THE ENGINEER OF RECORD. 2. ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION SHALL BE PROVIDED.

3. ANY PROPOSED FIELD CHANGES MUST HAVE THE APPROVAL OF THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.