



FORSYTH RESIDENCE



PROJECT INFORMATION

CITY HUDSON
COUNTY SUMMIT COUNTY
PARCEL NO 3201335
ZONING ZONE 4 - HISTORIC RESIDENTIAL NEIGHBORHOOD
LOT .1915 ACRE

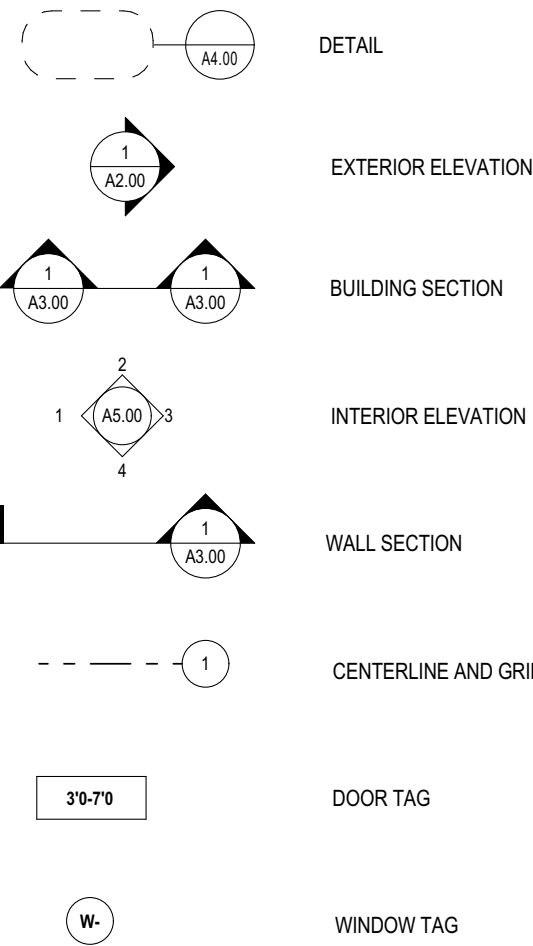
PROJECT NEW TWO STORY SINGLE FAMILY RESIDENCE

APPLICABLE CODE BUILDING: 2019 OHIO RESIDENTIAL BUILDING CODE
ZONING: CITY OF HUDSON

PROJECT AREA

FIRST FLOOR 1,400 SF
SECOND FLOOR 1,351 SF
TOTAL 2,751 SF

DRAWING SYMBOLS



DRAWING INDEX

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PROJECT TEAM

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CONTACT: NATE BAILEY		

PROJECT GENERAL NOTES

THE CONTRACTOR WILL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, PERMITS, TAXES, AND INSURANCE NECESSARY TO COMPLETE THE WORK INDICATED AND/ OR IMPLIED IN THE CONSTRUCTION DOCUMENTS UNLESS NOTED OTHERWISE AND WILL COORDINATE THE WORK RESPONSIBILITIES OF ALL SUBCONTRACTORS. ALL LABOR AND MATERIALS TO CARRY OUT FULLY THE INTENTIONS OF THE PLANS AND SPECIFICATIONS ARE PART OF THE CONTRACT, WHETHER OR NOT SPECIFICALLY DOCUMENTED.

ALL WORK WILL CONFORM TO THE CURRENT OHIO BUILDING, MECHANICAL & PLUMBING CODES, AS WELL AS THE CURRENT NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL OTHER APPLICABLE CITY CODES, LOCAL LAWS, AND AUTHORITIES HAVING JURISDICTION. CODE STANDARDS AND PUBLICATIONS OF PRIVATE AND PUBLIC BODIES MENTIONED WITHIN THE SPECIFICATIONS OR ON THE DRAWINGS, WILL BE CONSIDERED TO BE THOSE IN FORCE AT THE TIME OF THE CONTRACT AWARD.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONTROLLED INSPECTIONS AND ANY TECHNICAL TESTING REQUIRED FOR CONTROLLED INSPECTIONS AS STIPULATED BY ALL APPLICABLE CODES.

ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT WILL BE NEW AND FREE OF DEFECTS AND WILL BE SUPPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, AND CONDITIONED AS DIRECTED BY THE RESPECTIVE MANUFACTURERS, UNLESS SPECIFIED OTHERWISE.

THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES IN AND BETWEEN THE DRAWINGS AND THE SPECIFICATIONS PRIOR TO PROCEEDING WITH THE WORK. IF SUCH NOTICE IS NOT FURNISHED TO THE ARCHITECT, THE CONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE DRAWINGS AND SPECIFICATIONS AND TO HAVE FOUND THEM IN PROPER FORM FOR EXECUTION.

THE CONTRACTOR REPRESENTS THAT HE HAS HAD ADEQUATE ACCESS TO THE JOB SITE AND BUILDING AREA IN WHICH THE WORK IS TO BE PERFORMED, THAT HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF WORK, INCLUDING ANY OBSTRUCTIONS, SCOPE OF WORK, ACTUAL LEVELS, THE EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING THE EXECUTION OF THE WORK AND ALL OTHER MATTERS, WHICH CAN IN ANY WAY AFFECT THE WORK OR THE COST THEREOF UNDER THIS CONTRACT, AND THAT HE HAS STUDIED THE CONTRACT DOCUMENTS AND ALL OTHER DOCUMENTS PERTAINING TO THE INSTALLATION OF OTHER TRADES WHICH MAY INFLUENCE HIS WORK.

THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY, INCLUDING RESPONSIBILITY FOR ALL RELATED COSTS FOR ANY AND ALL WORK DONE WITHOUT THE APPROVAL OF THE ARCHITECT IF SUCH WORK IS IN CONFLICT WITH THE CONTRACT, DRAWINGS, OR SPECIFICATIONS.

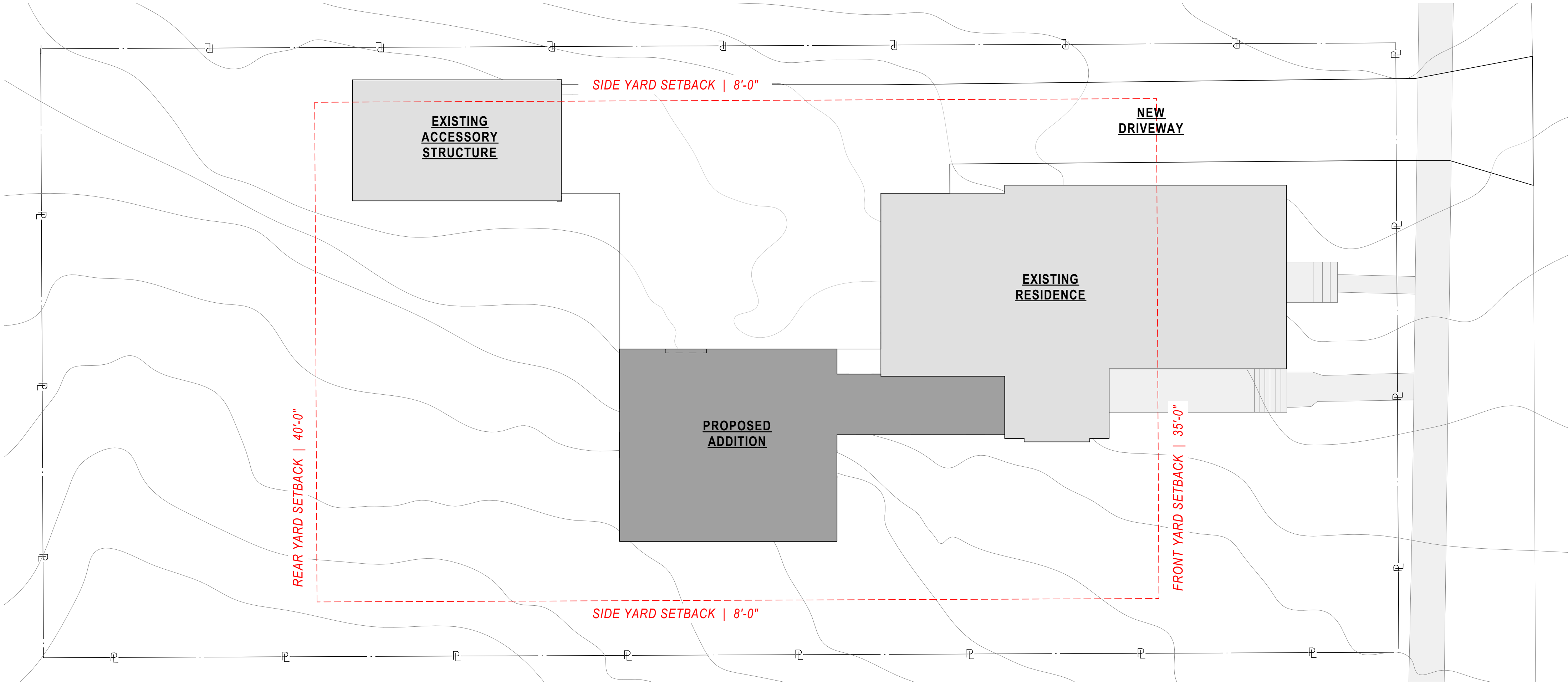
THE OWNER WILL ESTABLISH THE LIMITS OF THE CONSTRUCTION SITE IN ADDITION TO ANY CONTRACT LIMIT LINES SHOWN IN THE DRAWINGS. THE CONTRACTOR WILL CONTINUE HIS OPERATIONS WITHIN THESE LIMITS, UNLESS UPON WRITTEN REQUEST AND REPLY, A VARIANCE IS AGREED TO BY THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR TRESPASS ON AND/ OR DAMAGE TO OTHER PROPERTY BY ANY OF HIS EMPLOYEES OR HIS SUBCONTRACTOR'S EMPLOYEES.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFE WORKING CONDITIONS AT THE SITE. THE ARCHITECT AND OWNER WILL NOT BE DEEMED TO HAVE ANY RESPONSIBILITY OR LIABILITY IN CONNECTION HEREWITH.

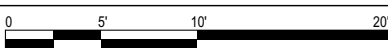
CONSTRUCTION OPERATIONS WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER, ELECTRICAL, OR OTHER SERVICES TO ANY PORTION OF THE BUILDING OUTSIDE THE LIMITS OF THE CONSTRUCTION SITE DESCRIBED IN NOTE 9.

THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES CAUSED BY DEFECTIVE OR ILL TIMED WORK AT NO ADDITIONAL COST TO THE OWNER.

NO SUBSTITUTIONS ARE PERMITTED EXCEPT WHERE THE TERM 'APPROVED EQUAL' APPEARS. ALL SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR IS TO SUBMIT SAMPLES OR CATALOG CUTS OF ALL VISIBLE MATERIALS AND EQUIPMENT FOR THE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.



1 SITE PLAN
SCALE: 1" = 10'



FORSYTH RESIDENCE

258 NORTH MAIN STREET, Hudson, Ohio 44236

PROJECT #: 2525

ISSUE	ID	DATE
ADDENDUM #1	1	07/16/2026
BIDDING	A	05/27/2026

FOR
CONSTRUCTION

COVER SHEET

G100

STRUCTURAL DESIGN CRITERIA

CODE: OHIO RESIDENTIAL CODE, CURRENT ED.

ROOF SNOW LOAD DATA:			
GROUND SNOW LOAD, p_g	20 PSF		
SNOW EXPOSURE FACTOR, C_e	0.9		
SNOW IMPORTANCE FACTOR, I_s	1.0		
THERMAL FACTOR, C_t	1.0		
FLAT-ROOF SNOW LOAD, p_f 12.6 PSF			
LIVE LOADS:			
ROOF LIVE	25 PSF		
FIRST FLOOR AND BASEMENT	40 PSF		
WIND LOAD:			
ULTIMATE WIND SPEED, V_{ult}	110 MPH		
DESIGN WIND VELOCITY, V_{des}	89 MPH		
EXPOSURE	B		
INTERNAL PRESSURE	COEFFICIENT, GPC +/- 0.18		
DESIGN PRESSURE	20 PSF MMFRS		
DEFLECTION CRITERIA:			
NORMAL FLOOR LOADS	L480 LIVE LOAD		
BEAMS AND HEADERS	L360 TOTAL LOAD		
	L360 TOTAL LOAD		

GENERAL

1) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN CASE OF CONFLICT, MORE COSTLY REQUIREMENTS GOVERN FOR BIDDING. SUBMIT CLARIFICATION REQUEST PRIOR TO PROCEEDING WITH WORK.

2) ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.

3) NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. UNLESS NOTED OTHERWISE, DETAILS IN STRUCTURAL DRAWINGS ARE TYPICAL AS INDICATED BY CUTS, REFERENCES, OR TITLES.

4) ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: OHIO RES CODE AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.

5) THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

6) ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.

7) CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

8) CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

FOUNDATION

1) GENERAL CONTRACTOR TO RETAIN GEOTECHNICAL ENGINEER TO VERIFY SOIL BEARING CAPACITY AND ADEQUACY OF SOILS FOR PROJECT. SUBMIT WRITTEN REPORT TO BOTH ENGINEER OF RECORD AND LOCAL BUILDING AUTHORITY.

2) FOOTINGS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION: ALLOWABLE BEARING = 2000 PSF (ASSUMED). FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATIVE SOILS TESTED.

3) CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE, IF REQUIRED.

4) CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING DRAINAGE, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.

5) ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH.

6) FOUNDATIONS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE INSPECTOR OR SOILS ENGINEER, FOUNDATION ELEVATIONS WILL BE ALTERED BY CHANGE ORDER.

7) SLABS ON GRADE SHALL BE SUPPORTED ON NATURAL GRADE OR COMPACTED FILL. PROOF ROLL PRIOR TO PLACING BASE. REPLACE SOFT AREAS WITH COMPACTED FILL.

8) PLACE FILLS TO BE COMPACTED IN MAX 8" LOOSE LIFTS. COMPACT TO MINIMUM 98% OF MAXIMUM DENSITY AT ±2% OPTIMUM MOISTURE WHEN TESTED IN ACCORDANCE WITH ASTM D-698.

9) DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL FLOOR STRUCTURE IS COMPLETE OR WALL IS ADEQUATELY BRACED. USE STRUCTURAL PIPE BRACING. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF BRACING.

CONCRETE

1) ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.

2) SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES: LOCATION IN STRUCTURE:

CONCRETE FOOTINGS AND WALLS	DENSITY STRENGTH SLUMP	145 PCF W/C RATIO 0.55 3000 PSI 4" MAX.
SLAB-ON-GRADE (INT & EXT)	DENSITY W/C RATIO STRENGTH SLUMP AIR ENTRAINMENT	145 PCF 0.45 4000 PSI 4" MAX. 6% FOR EXT & GARAGE SLABS

CONTRACTOR AT HIS OPTION MAY INCREASE SLUMP WITH USE OF HRWR ADMIXTURE. LIMIT SLUMP INCREASE TO 3" GREATER THAN THAT ALLOWED WITHOUT HRWR.

3) ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

4) CUT JOINTS FOR SLABS ON GRADE A MAXIMUM OF 12'-0" O.C., UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS. CUT JOINTS WITHIN 8 (EIGHT) HOURS AFTER PLACING CONCRETE. CONCRETE EXPOSED TO THE WEATHER, FREEZE-THAW, DEICING CHEMICALS, AND/OR PARKED VEHICLES SHALL CONTAIN 6% (±2%) ENTRAINED AIR EITHER BY USING TYPE "A" PORTLAND CEMENTS OR ADMIXTURES CONFORMING TO ASTM C-260.

5) CURE CONCRETE BY WET CURING OR LIQUID SPRAY CONFORMING TO ASTM C-309. CONTRACTOR TO VERIFY CURING AGENT IS COMPATIBLE WITH ANY FLOOR ADHESIVES SPECIFIED WITHIN THE CONTRACT DOCUMENTS.

6) CALCIUM CHLORIDE OR CHLORIDE CONTAINING ADMIXTURES SHALL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

7) DURING HOT WEATHER PLACE CONCRETE IN ACCORDANCE WITH ACI 305.

8) DURING COLD WEATHER PLACE CONCRETE IN ACCORDANCE WITH ACI 306.

REINFORCING STEEL

1) REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 25 OF THE ACI CODE, ASTM A615, GRADE 60 U.N.O.

2) BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

3) WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 (MATS ONLY). PROVIDE LAPS PER THE ACI CODE SECTION 25.5, 9" MINIMUM. WWF SHALL BE SUPPORTED ON APPROVED CHAIRS.

4) CONCRETE PROTECTION FOR REINFORCEMENT CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
B. CONCRETE EXPOSED TO EARTH OR WEATHER: 2"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: 1 1/2"
D. SLABS, WALLS, JOISTS: 3/4"

MASONRY

1) CONSTRUCT ALL MASONRY WALLS IN ACCORDANCE WITH ACI 530 AND ACI 530.1 UNLESS OTHERWISE SHOWN OR NOTED.

2) MATERIALS:
LOAD BEARING UNITS: ASTM C90
CONCRETE BRICK: ASTM C55
FACING BRICK: ASTM C216, TYPE FBS, GRADE SW
NON LOAD BEARING UNITS: ASTM C129
MORTAR (TYPE M, S, N, or O): ASTM C270 (PROPORTION METHOD)
GROUT: ASTM C476 (2000 PSI, PROPORTION METHOD)
REINFORCING STEEL BARS: ASTM A615 GRADE 60

3) MASONRY PRISM STRENGTH: f_m = 2,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.

4) MORTAR USAGE:
FOR ABOVE AND BELOW GRADE WALLS: TYPE S
REINFORCED MASONRY: TYPE S
LOAD BEARINGS (INTERIOR AND EXTERIOR): TYPE N
NON-LOAD BEARING (EXTERIOR): TYPE N
NON-LOAD BEARING PARTITIONS (INTERIOR): TYPE N

5) ACCELERATING ADMIXTURES MAY BE USED IN MORTAR FOR COLD WEATHER CONSTRUCTION, EXCEPT ADMIXTURES SHALL NOT CONTAIN CALCIUM CHLORIDE OR CHLORIDE IONS. EUCLID CHEMICAL "ACCEL-GARD 80" OR EQUAL WILL BE ACCEPTABLE.

6) CONCRETE MASONRY UNITS AND MORTAR ARE TO CONTAIN AN INTEGRAL WATER REPELLENT ADMIXTURE, GRACE "DRY-BLOCK", DEGUSSA "RHEOPEL WR" OR EQUAL. ADD DOSAGES TO BLOCK MIX AND MORTAR MIX PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.

7) IN MASONRY WALLS, NO CHASES, RISERS, CONDUITS OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 17" OF CENTERLINE OF BEAM BEARING OR CONCENTRATED LOADS. DO NOT INSTALL ANY BEAM, JOIST, BEARING PL OR CONT ANGLE ACROSS CONTROL OR EXPANSION JOINT. SHIFT BEAM, JOIST OR BRG PL TO ONE SIDE, ADJUST SPACING AS NEEDED. CUT CONT ANGLES AT JOINTS. GO TO COORD JOINT LOCATIONS WITH BEAM/JOIST BEARING USE TWO COURSES (16") OF SOLID OR GROUTED SOLID MASONRY BELOW EACH BEAM BEARING MINIMUM UNLESS NOTED OTHERWISE.

8) PROVIDE HORIZONTAL JOINT REINFORCING IN ALL MASONRY WALLS AT 16" O.C. VERTICALLY. JOINT REINFORCING SHALL BE DUR-O-WAL LADDER TYPE, 9 GA. GALVANIZED WIRE, OR EQUAL. LAP SPLICES MINIMUM 6".

9) VENEER ANCHORS TO BE TWO PIECE, PINTEL AND EYE RECTANGULAR TYPE OR ADJUSTABLE WITH TRIANGULAR TIES. TIES ARE TO BE MIN 3/16" GALVANIZED WIRE. SPACE TIES AT 16" O.C. VERT AND 24" O.C. HORZ, STAGGER ROWS. CORRUGATED TIES WILL NOT BE PERMITTED.

10) PROVIDE UNITS APPROPRIATE FOR THE USE, I.E., SASH, BULLNOSE, BOND, ETC.

11) PROVIDE FIRE RATED OR EQUIVALENT MASONRY UNITS AT FIREWALLS, STAIRWELLS AND ELEVATOR SHAFT. CERTIFICATES OF COMPLIANCE SHALL BE FURNISHED UPON REQUEST.

12) DURING CONSTRUCTION, BRACE MASONRY WALLS IN ACCORDANCE WITH "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING. CONTRACTOR IS SOLELY RESPONSIBLE TO MEET THESE REQUIREMENTS.

13) CONSTRUCT MASONRY IN ACCORDANCE WITH ACI 530.1 SECTION 1.8 DURING COLD OR HOT WEATHER. USE OF 100% CHLORIDE FREE ACCELERATING ADMIXTURE IS SUBJECT TO APPROVAL BY ENGINEER. SUBMIT PRODUCT DATA PRIOR TO APPLICATION.

STEEL LINTEL SCHEDULE

1) PROVIDE STEEL LINTELS AS PER THE FOLLOWING SCHEDULE IN ALL MASONRY WALL OPENINGS WHEN NOT SHOWN ON DRAWINGS, OR IN OPENINGS REQUIRED BY THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

FOR OPENINGS UP TO 4'-0":	L3 12x3 12x14
FOR OPENINGS FROM 4'-1" TO 6'-0":	L5x3 12x5/16
FOR OPENINGS FROM 6'-1" TO 7'-0":	L6x3 12x5/16
FOR OPENINGS FROM 7'-1" TO 10'-0":	W8x18 with 5/16" plate
FOR OPENINGS GREATER THAN 10'-0" AND NOT SHOWN ON PLANS ALLOW FOR A MINIMUM BEAM WEIGHT OF 36 PLF PLUS A 5/16" x 11" BOT PLATE	

2) ALL LINTELS SHALL BEAR ON 8" OF SOLID MASONRY, U.N.O.

3) USE ONE ANGLE FOR EACH 4' WYTHE OF MASONRY. PLATES ARE TO BE 1" LESS THAN NOMINAL WALL THICKNESS.

4) MINIMUM THICKNESS OF LINTELS IN EXTERIOR WALLS TO BE 5/16".

5) ANGLES OR PLATES IN EXTERIOR WIDTHS OF MASONRY WALLS ARE TO BE HOT DIPPED GALVANIZED.

6) FOR MULTI WYTHE WALLS WITH AIR SPACES, CONTRACTOR IS TO INCLUDE ADDITIONAL ANGLES, PLATES, AND CHANNELS TO CLOSE OFF AIRSPACE AT LINTEL LOCATIONS. SEE DETAILS ON DRAWINGS. IF NO DETAILS ARE SHOWN, CONTACT ENGINEER FOR FURTHER INFORMATION AND DETAILS.

ROUGH CARPENTRY

1) DETAIL, FABRICATE, AND ERECT ALL STRUCTURAL LUMBER IN ACCORDANCE WITH NATIONAL DESIGN SPECIFICATION BY NATIONAL FOREST PRODUCTS ASSOCIATION AND TIMBER CONSTRUCTION MANUAL BY AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, LATEST EDITION.

2) MATERIALS:
S4S LUMBER (ASL PS 20)
CONCEALED LOCATIONS:
SPECIES: DOUGLAS FIR LARCH, HEM FIR, OR SPF
GRADE: NO. 2 OR BETTER, 19% MC, KILN DRIED

EXPOSED LOCATIONS:
SPECIES: DOUGLAS FIR LARCH OR AS SELECTED BY ARCHITECT
GRADE: NO. 2 OR BETTER, 19% MC, KILN DRIED

EXTERIOR PRESSURE TREATED:
SPECIES: SOUTHERN PINE
GRADE: NO. 2 OR BETTER, 19% MC, KILN DRIED
SHEATHING - APA RATED FOR APPLICATION:

EXTERIOR GRADE AT ROOFS:
EXPOSURE 1 FOR WALLS AND FLOORS.
PLYWOOD - APA VOLUNTARY STANDARD PS-1.
ORIENTATED STRAND BOARD - VOLUNTARY STANDARD PS-2.
TREATED LUMBER - TO BE FACTORY PRESSURE APPLIED AS FOLLOWS:

EXTERIOR EXPOSURES & GROUND CONTACT:
AWPA UC3B OR UC4B.
FIRE RESISTANT: AWPA UCFA FOR INTERIOR AND UCFB FOR EXTERIOR.

SEE ARCHITECTURAL DRAWINGS FOR FIRE TREATED LUMBER LOCATIONS.

3) LUMBER SUPPLIER SHALL FURNISH ALL APPROPRIATE CONNECTIONS FOR ATTACHING LUMBER FRAMING AND ANCHORING TO ADJACENT CONSTRUCTION. CONNECTIONS SHALL BE MADE WITH STANDARD DESIGNS, FABRICATED FROM 16 OR 18 GA. SHEET METAL FOR SINGLE OR DOUBLE 2x LUMBER MEMBERS OR 3, 7 OR 12 GA. STEEL PLATE FOR MULTIPLE PLY, GLULAM OR LVL MEMBERS, AS MANUFACTURED BY CLEVE STL SPEC, U S F, SIMPSON STRONGTIE, OR EQUAL. DETAILS SHALL CONFORM TO AITC STANDARD NO. 104.

4) BOLTS, NAILS, SPIKES, AND OTHER CONNECTORS SHALL BE APPROPRIATE FOR THE USE INTENDED. FASTENERS EXPOSED TO FIRE-TREATED LUMBER, CHEMICAL FUMES, WEATHER AND/OR HIGH HUMIDITY SHALL BE HOT DIPPED GALVANIZED, UNLESS INDICATED OTHERWISE ON DRAWINGS.

5) ALL CONNECTORS, FASTENERS, NAILS, BOLTS AND SPIKES USED FOR PRESSURE TREATED LUMBER CONNECTIONS SHALL BE FABRICATED FROM STAINLESS STEEL, TYPE 304 OR 316.

ROUGH CARPENTRY CONT'D

6) DESIGN, FABRICATE AND ERECT PRE-ENGINEERED WOOD TRUSSES IN ACCORDANCE WITH TRUSS PLATE INSTITUTE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES." SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. DRAWINGS ARE TO INCLUDE: DESIGN LOADS, REACTIONS, MEMBER SIZES, STRESSES, PLATE SIZES, DIMENSIONS, AND ERECTION DRAWINGS. TRUSS MANUFACTURER TO PROVIDE CERTIFIED DOCUMENTS INDICATING THE MANUFACTURER HAS A MINIMUM OF 5 YEARS EXPERIENCE IN DESIGNING AND PRODUCING TRUSSES FOR NON-RESIDENTIAL CONSTRUCTION. FAILURE TO SUBMIT THIS DOCUMENT WILL BE CAUSE FOR REJECTION OF TRUSS MANUFACTURER AND ANY TRUSS SUBMITTALS.

7) ERECT PRE-ENGINEERED WOOD TRUSSES IN ACCORDANCE WITH TRUSS PLATE INSTITUTE DSB-89 "TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" INCLUDING GROUND BRACE, LATERAL BRACES AND DIAGONAL 'X' BRACES. IF NOT SHOWN OTHERWISE ON CONSTRUCTION DOCUMENTS, TEMPORARY BRACING IS TO BE LEFT PERMANENTLY IN PLACE.

8) PROVIDE WOOD HEADERS AS PER THE FOLLOWING SCHEDULE IN ALL STUD WALL OPENINGS WHEN NOT SHOWN ON DRAWINGS, OR IN OPENINGS REQUIRED BY THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

MAX. OPENING	SIZE	BEARING WALLS	NON-BEARING WALLS	3' TO 5'	2-2X8	2-
2X6	OVER 5'	TO 8'	2-2X10	SEE PLAN	OVER 8'	TO 10'
2-2X12	2-2X10	OVER 10'	SEE PLAN	SEE PLAN	SEE PLAN	
ADD ONE 2x MEMBER FOR EACH ADDITIONAL 2" NOMINAL WALL WIDTH.						

9) STUD SCHEDULE - USE THE FOLLOWING SCHEDULE, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE ONE ADDITIONAL KING STUD EACH SIDE, FULLY NAILED TO JACK STUDS. MAX. OPENING SIZE NON-BEARING WALLS BEARING WALLS UP TO 4' 4' TO 6' 6' TO 12'

10. PROVIDE BEARING JACK-STUDS EQUAL TO NUMBER OF BEAM LAMINATIONS PLUS ONE KING-STUD UNDER ALL BEAM BEARING LOCATIONS. STUDS ARE TO EXTEND TO SOLID OR BEAM BEARING OR AS NEEDED. BLOCK SOLID AS NEEDED.

CONNECTION NAILING SCHEDULE

1) JOIST TO SILL OR GIRDER, TOENAIL 3-8d (1)

2) BRIDGING TO JOIST, TOENAIL EACH END 2-8d

3) 1" x 6" (25 mm x 152 mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL 2-8d
WIDER THAN 1" x 6" (25 mm x 152 mm)
SUBFLOOR TO EACH JOIST, FACE NAIL 3-8d
2" (51 mm) SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL 2-16d

4) SILL PLATE TO JOIST OR BLOCKING TYPICAL FACE NAIL 16d @ 16" (406 mm) O.C.

5) SILL PLATE TO JOIST OR BLOCKING AT BRACED WALL PANELS 3-16d PER 16" (406 mm) O.C.

6) TOP PLATE TO STUD, END NAIL 2-16d

7) STUD TO SILL PLATE 4-8d TOENAIL, OR 2-16d END NAIL

8) DOUBLED STUDS, FACE NAIL 16d @ 24" (610 mm) O.C.

9) DOUBLED TOP PLATES, TYPICAL FACE NAIL 16d @ 16" (406 mm) O.C.

10) DOUBLE TOP PLATES, LAP SPLICE 8-16d

11) BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL 3-8d

12) RIM JOIST TO TOP PLATE, TOENAIL 8d @ 6" (152 mm) O.C.

13) TOP PLATES, LAPS AND INTERSECTIONS FACE NAIL 2-16d

14) CONTINUOUS HEADER, TWO PIECES ALONG EACH EDGE 16d AT 16" (406 mm) O.C.

15) CEILING JOISTS TO PLATE, TOENAIL 3-8d

16) CONTINUOUS HEADER TO STUD, TOENAIL 4-8d

17) CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL 3-16d

18) CEILING JOISTS TO PARALLEL RAFTERS FACE NAIL 3-16d

19) RAFTER TO PLATE, TOENAIL 3-8d

20) 1" (25 mm) BRACE TO EACH STUD AND PLATE, FACE NAIL 2-8d

21) 1" x 8" (25 mm x 203 mm) SHEATHING OR LESS TO EACH BEARING, FACE NAIL 2-8d

22) WIDER THAN 1" x 8" (25 mm x 203 mm) SHEATHING TO EACH BEARING, FACE NAIL 3-8d

21) BUILT-UP CORNER STUDS 16d @ 24" (610 mm) O.C.

22) BUILT-UP GIRDER AND BEAMS 20d @ 32" (813 mm) O.C.
AT TOP AND BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EA SPLICE

23) 2" (51 mm) PLANKS 2-16d AT EACH BEARING

24) WOOD STRUCTURAL PANELS AND PARTICLE BOARD:
(2) SUBROOF, ROOF AND WALL SHEATHING (TO FRAMING): 1/2" AND LESS 6d (3)
19/32" - 3/4" 8d (4) OR 5d (5) 7/8"
1" 8d (3) 1 1/8" - 1 1/4" 10d (4) OR 8d (5)
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING): 3/4" AND LESS 6d (5) 7/8" - 1" 8d (5) 1 1/8" - 1 1/4" 10d (4) OR 8d (5)

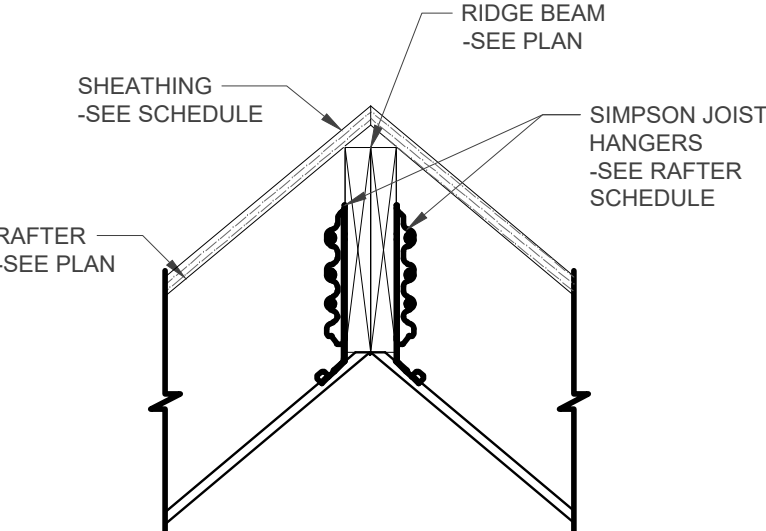
25) PANEL SIDING (TO FRAMING): 1/2" (13 mm) OR LESS 8d (6) 5/8" (16 mm) 8d (6)

26) FIBERBOARD SHEATHING: (7) 1/2" (13 mm) THICKNESS 6d (4) 25/32" (20 mm) THICKNESS No. 16 GA (9)

27) INTERIOR PANELING 1/4" THICKNESS 6d (10) 3/8" THICKNESS 8d (11)

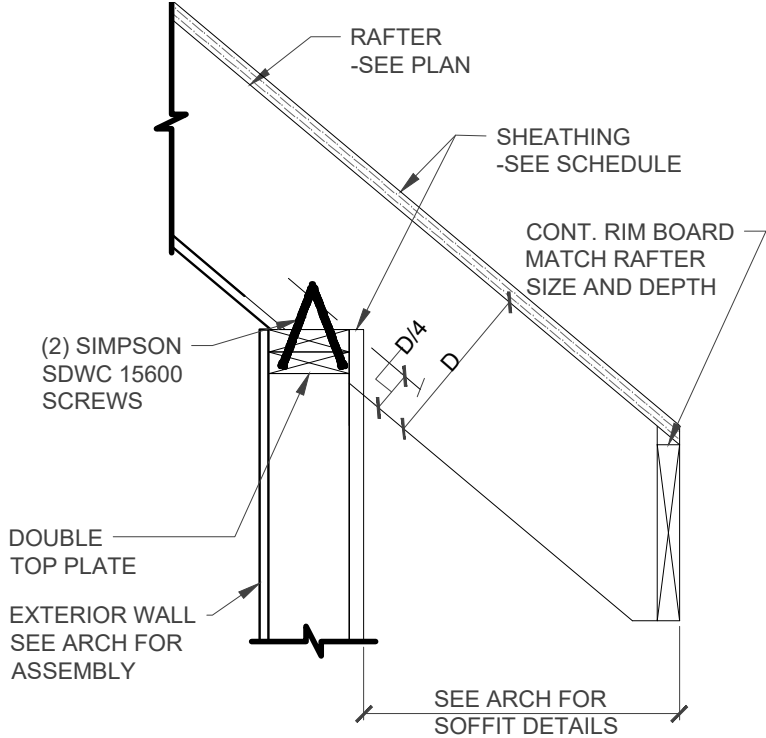
NOTES (AS IDENTIFIED IN PARENTHESES ABOVE):
1) COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
2) NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152 mm) AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION R602.3. NAILS FOR WALL SHEATHING MAY BE COMMON.
3) COMMON OR DEFORMED SHANK.
4) COMMON.
5) DEFORMED SHANK.
6) CORROSION-RESISTANT SIDING AND CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION R602.3.
7) FASTENERS SPACED 3 INCHES (76 mm) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152 mm) ON CENTER AT INTERMEDIATE SUPPORTS.
8) CORROSION-RESISTANT ROOFING NAILS WITH 7/16"-DIAMETER-HEAD AND 1-1/2-INCH LENGTH FOR 1/2-INCH SHEATHING AND 1 3/4-INCH FOR 25/32-INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION R602.3.
9) STAPLES OF ANY TYPE MAY NOT BE USED UNDER ANY CIRCUMSTANCES.
10) PANEL SUPPORTS AT 16 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
11) PANEL SUPPORTS AT 24 INCHES CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES (305 mm) AT INTERMEDIATE EDGES.

CONVENTIONAL LUMBER ROOF RAFTER CONNECTION SCHEDULE			
SIZE	SINGLE RAFTERS	FACE	RAFTER
2x6	LRU2R2	(4) 16d	(5) 16d
2x8	LRU2R2	(6) 16d	(5) 16d
2x10	LRU2102	(6) 16d	(7) 16d
2x12	LRU2122	(6) 16d	(7) 16d



RAFTER HANGER SCHEDULE

SCALE: 1"=1'-0"

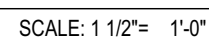
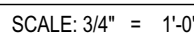
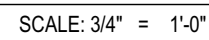


RAFTER BEARING DETAIL

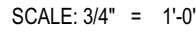
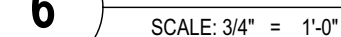
SCALE: 1"=1'-0"

METHOD CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL (CS-WSP)

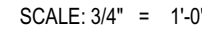
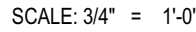
METHOD, MATERIAL	MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA		
			FASTENERS	SPACINGS	
CS-WSP CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL	3/8"		6D COMMON (2" x 0.113") NAILS	6" PANEL EDGES 12" INTERMEDIATE SUPPORTS	
			16 GA. x 1 3/4 STAPLES	3" PANEL EDGES 6" INTERMEDIATE SUPPORTS	
	H 8" to 12"	H	0.85xH	0.65xH	H/4 24" to 36"
NOTE: MINIMUM LENGTHS OF BRACED WALL PANELS PROVIDED IN IRC TABLE R602.10.5 (TABLE 3.28) ARE BASED ON ADJACENT CLEAR OPENING HEIGHT AS ILLUSTRATED					



LOCATE AT ALL LOCATIONS WHERE NEW FTG ABUTS EXISTING FOOTING



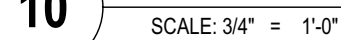
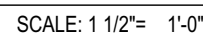
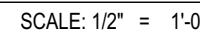
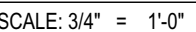
SPLICE BARS TO MATCH QTY OF BARS IN EACH LAYER OF REINFORCING



USE AS REQUIRED - G.C. TO COORDINATE SITE GRADING, PLAN -
ENGINEER OF RECORD NOT RESPONSIBLE FOR CONTRACTOR ERRORS



A	HORIZONTAL JOINT REINFORCING - REFER TO NOTES FOR MORE INFORMATION
B	INTERRUPT REINFORCING WITHIN 3" OF OPENING. PROVIDE 180-DEGREE HOOK AT END OF BARS.
C	ADD ONE HALF THE NUMBER OF BARS TO EACH SIDE AS IS INTERRUPTED BY OPENING. (MINIMUM TWO BARS EA. SIDE OF OPENING). SIZE TO MATCH VERTICAL WALL REINFORCING.
D	PROVIDE MIN. TWO BARS HORIZONTAL - EXTEND MIN. 24" BEYOND EACH SIDE OF OPENING, BUT NOT LESS THAN 40 BAR DIAMETERS. SIZE TO MATCH VERTICAL WALL REINFORCING.



PROJECT TEAM:

ARCHITECT
ARA ARCHITECTS

STRUCTURAL
ENERGY ENGINEERING SERVICES

LANDSCAPE
ANITA MCINERNEY LANDSCAPE DESIGN

FORSYTH RESIDENCE

2258 NORTH MAIN STREET, Hudson, Ohio 44236

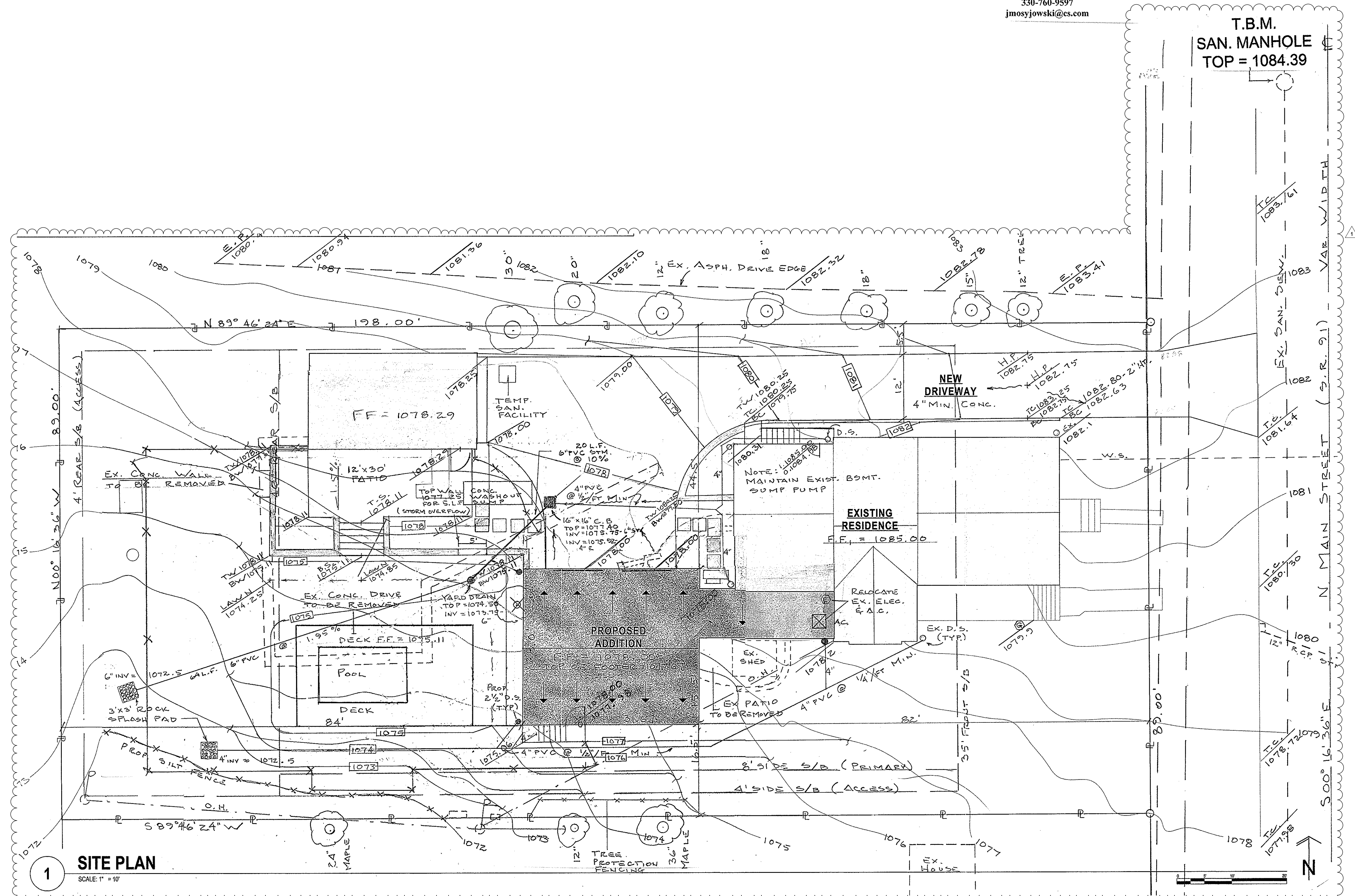
PROJECT #: 2529

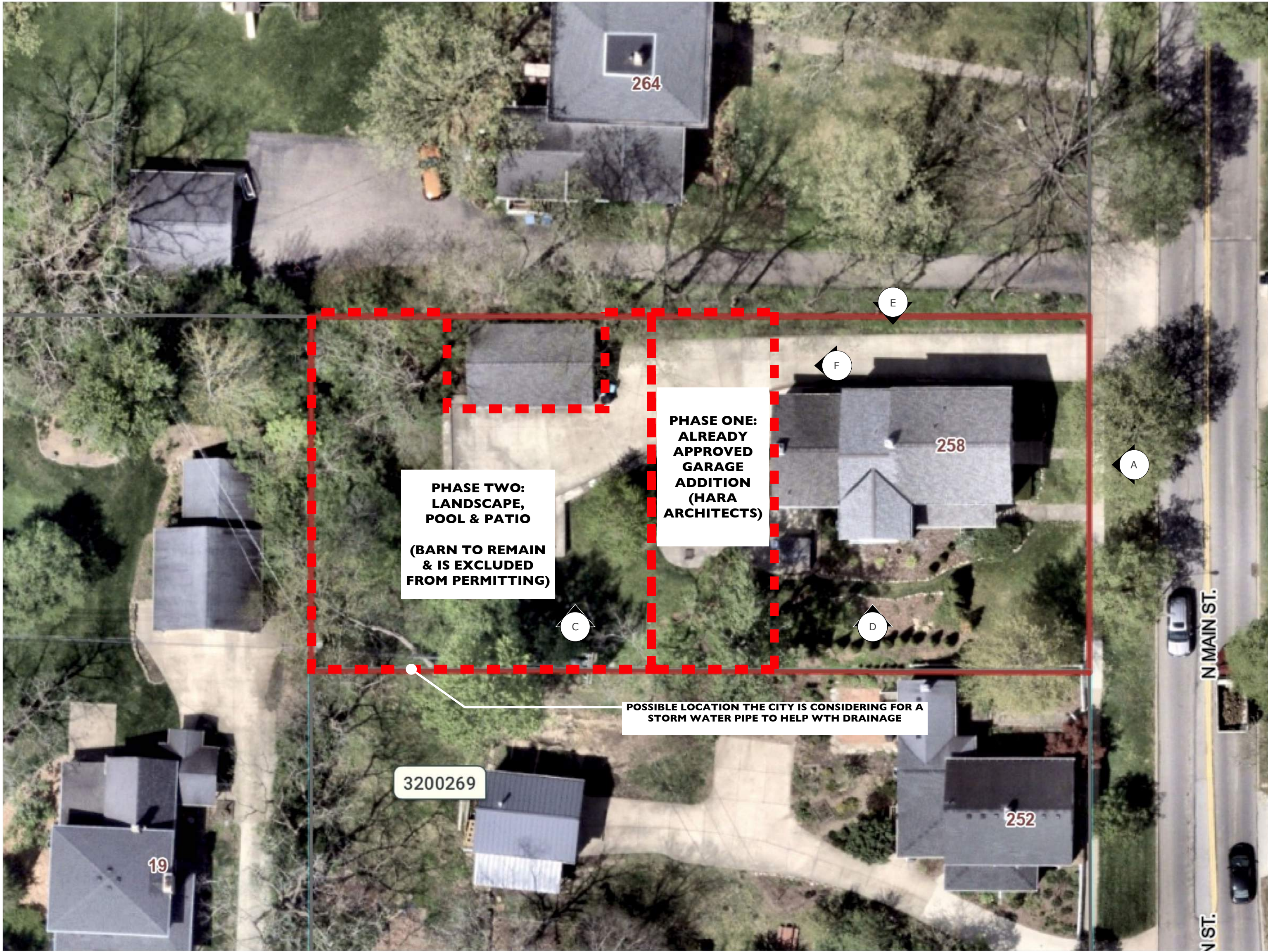
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**FOR
CONSTRUCTION**

GENERAL DETAILS

G102





PROJECT LOCATION, EXISTING CONDITIONS AND DEMO AREAS (Source: Hudson GIS)

NOTES:

NOTIFY LANDSCAPE DESIGNER SHOULD CONFLICTS ARISE BETWEEN THESE DOCUMENTS AND THAT OF THE OWNER CONTRACTOR.

ALL EQUIPMENT AND APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION REQUIREMENTS.

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND PROPOSED GRADES SHOWN ON THIS PLAN. ANY ERRORS RESULTING FROM FAILURE TO CHECK OR TO NOTIFY THE LANDSCAPE DESIGNER OF ANY CHANGES SHALL NOT BE THE RESPONSIBILITY OF TANYA MCINERNEY LANDSCAPE DESIGN (TMLD).

CONTRACTOR TO NOTIFY UTILITIES PROTECTION SERVICES/O.U.P.S. PRIOR TO CONSTRUCTION.

SILT FENCE MUST SURROUND ALL EXCAVATION AREAS SO THAT NO SILT ESCAPES SITE.

MAINTAIN POSITIVE YARD DRAINAGE AWAY FROM STRUCTURES AND A MINIMUM SLOPE OF 2% ALONG GRASS SWALES AND 1% ALONG MASONRY SURFACES.

THE LOCATION OF THE UTILITIES SHOWN HEREON ARE BASED ON OBSERVED EVIDENCE OF ABOVE GROUND APPURTENANCES. THE LOCATION OF THESE UTILITIES MAY VARY AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO CONSTRUCTION. ADDITIONAL UTILITIES MAY BE ENCOUNTERED.

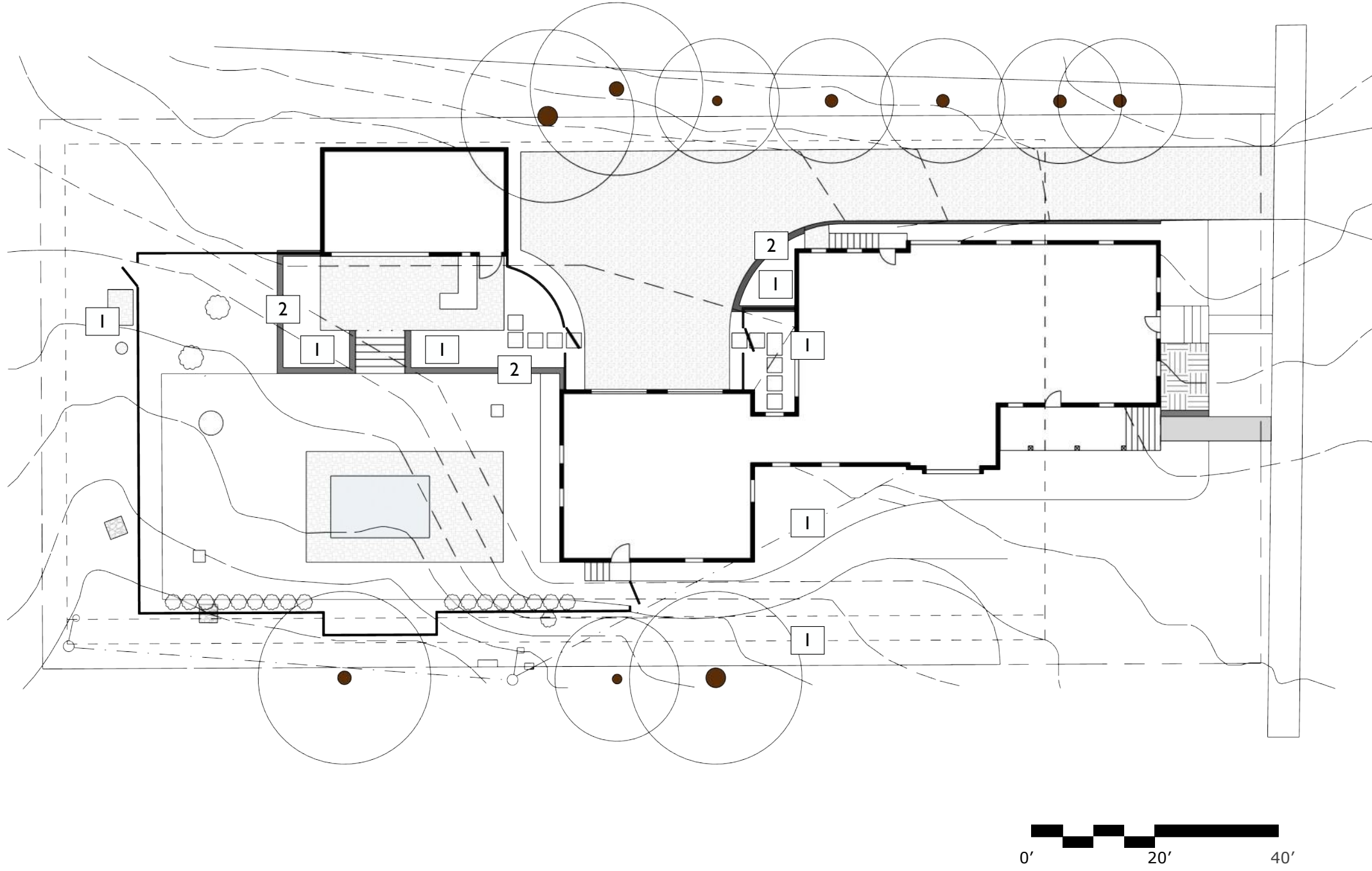
THERE WAS NO SEARCH FOR EASEMENTS OF RECORD, RIGHT-OF-WAYS, RESTRICTION COVENANTS, ENCUMBRANCES, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT A TITLE SEARCH MAY DISCLOSE.

THE CONTRACTOR WILL NEED TO LOCATE THE PINS PRIOR TO CONSTRUCTION TO ENSURE WORK IS NOT CONDUCTED ON NEIGHBORING PROPERTIES OR IN THE RIGHT OF WAY.

THIS CONCEPTUAL DRAWING AS DEPICTED IS PRELIMINARY AND INTENDED TO ILLUSTRATE DESIGN INTENT BASED ON DATA MADE AVAILABLE. MODIFICATIONS TO THIS CONCEPTUAL DRAWING MAY BE REFLECTED IN THE FINAL PLAN BASED ON ADDITIONAL DATA COLLECTED OR CHANGES TO EXISTING DATA RELATED TO SITE BOUNDARY, TOPOGRAPHY, LOCAL AND STATE GOVERNMENT REGULATORY REVIEW, AND PERMITTING REQUIREMENTS. IMAGES ARE FOR REFERENCE ONLY.

LEGEND/SCOPE:

- 1 PLANTING BEDS
- 2 RETAINING WALLS
- 3 LAWN
- 4 PROPOSED DRIVEWAY
- 5 PATIO
- 6 STEPS TO PATIO & POOL
- 7 EXISTING TREE
- 8 FENCE GATES
- 9 6'PRIVACY FENCE
- 10 4' FENCE
- 11 PAVER WALK IN BED
- 12 SUGGESTED POOL MECHANICALS LOCATION



PROPOSED PROJECT (BASE MAP PROVIDED BY CIVIL ENGINEER & ARCHITECT):

SCALE: 1"=20'-0"

DEMO NOTES:

MOST AREAS WILL ALREADY BE DEMOED BY THE CONTRACTOR DOING THE GARAGE ADDITION.

PROJECT DESCRIPTION:

THE HOMEOWNER IS INTERESTED IN ADDING A FENCED IN POOL AREA WITH A PATIO. THE GRADE FALLS TO THE SOUTHWEST, SO THERE WILL BE LOW RETAINING WALLS TO CREATE A LEVEL FOR THE PATIO AND A LEVEL FOR THE POOL.

UPON APPROVAL, THIS PROJECT WOULD ENSUE AFTER THE GARAGE ADDITION THAT HAS ALREADY BEEN APPROVED.

ALL GRADING AND DRAINAGE FOR BOTH PHASES ARE BEING DESIGNED BY A CIVIL ENGINEER. THE CITY ENGINEER IS ALSO INVOLVED AS THE CITY IS PROPOSING PIPING SOME OF THE STORM WATER/DRAINAGE THROUGH THE CITY'S STORM WATER SYSTEM TO ENSURE WATER DOESN'T IMPACT THE PROPERTIES THAT SIT LOWER TO THE WEST AND SOUTH.

PROJECT TEAM:

LANDSCAPE DESIGNER:

TANYA MCINERNEY LANDSCAPE DESIGN
TANYA MCINERNEY
614.271.1890

CIVIL ENGINEER:

JOE MOSYJOWSKI
330.760.9597

CONTRACTOR TO PERMIT & INSTALL:

MOCK PROPERTIES
JEREMIAH MOCK
330.608.7397

PICTURES OF EXISTING HOME

SCALE: 1"=20'-0"



SYMBOLS

- DETAIL
- SECTION
- ELEVATION
- CENTERLINE
- ALIGN WITH ARCHITECTURAL FEATURE
- PROPERTY LINE
- DEMO AREAS
- DRAINAGE/SWALE LINE

LEGEND

- EXISTING DECIDUOUS TREE/ SHRUB
- EXISTING EVERGREEN TREE/SHRUB
- CONCRETE
- PAVERS
- PLANTING BED
- POST FOR PERGOLA & FENCE
- PROPOSED ROCK OUTCROPPING LOCATIONS
- FLAGSTONE
- WATERPROOF (12V) OUTDOOR LIGHT
- PROPOSED ELECTRIC LOCATION
- GAS
- WATER
- FENCE
- DRAIN
- EXISTING ELECTRIC LINE

ABBREVIATIONS:

- BOS BOTTOM OF STEP
- BOW BOTTOM OF WALL
- FF FINISH FLOOR
- SQ SQUARE
- TOS TOP OF STEP
- TOW TOP OF WALL
- TYP TYPICAL
- NIC NOT IN CONTRACT

DRAWING SET PAGES

- L-00.01 LEGEND, SYMBOLS, NOTES
- L-01.01 DIMENSIONED SITE PLAN
- L-01.02 PLANTING PLAN
- L-02.01 ELEVATIONS/SECTIONS

LEGEND:

- 1

PLANTING BEDS
- 2

RETAINING WALLS
- 3

LAWN
- 4

PROPOSED DRIVEWAY
- 5

PATIO
- 6

STEPS TO PATIO & POOL
- 7

EXISTING TREE
- 8

FENCE GATES
- 9

6'PRIVACY FENCE
- 10

4' FENCE
- 11

PAVER WALK IN BED
- 12

SUGGESTED POOL MECHANICALS LOCATION
- 13

GRILL NOOK
- 14

POOL
- 15

POOL DECK
- 16

NEW DRIVEWAY
- 17

EX DECK STEPS
- 18

EX TREES
- 19

EX ELECTRIC POLES

CONSTRUCTION NOTES:

- A

FLAGSTONE WALK SHOWN THROUGH PLANTING BED TO REDUCE IMPERVIOUS SURFACE. 3'X3' PAVERS ARE SHOWN. THESE ARE TO BE LAID ON COMPACTED GRAVEL BASE WITH LEVELING AGENT TO ENSURE INTEGRITY.
- B

WALLS AND POOL ARE PARALLEL TO THE EXISTING BARN/FUTURE POOL HOUSE.
- C

POOL (LATHAM MILANO 16 X10) IS CENTERED ON THE MAIN OPENING TO THE BARN. POOL TO HAVE AN AUTOCOVER.
- D

SINGLE DOOR TO REPLACE A SOUTHWEST WINDOW TO PROVIDE GARAGE ACCESS.
- E

FENCE GATE TO EXTEND OFF OF STEPS.
- F

THE FENCE IS SHOWN ON TOP OF THE WALL.
- G

FENCE TO MEET ALL APPROPRIATE POOL CODES.
- H

A NEW MAN DOOR WILL BE ADDED TO THE GARAGE.
- I

THERE IS A POSSIBILITY SOME OF THE ELECTRIC & TELECOMM LINES COULD BE BURIED. THE FENCE WAS PLACED 10' FROM THE EX ELECTRIC POLES.
- J

ALL RETAINING WALLS SHOULD BE BUILT WITH THE APPROPRIATE FOOTERS AND TO CODE. ALL RETAINING WALLS ARE SHOWN 1' WIDE +/-, FINAL WALL MATERIAL SELECTION AND CONSTRUCTION METHOD TO DETERMINE FINAL WIDTH.
- K

POOL DECK EDGE TO ALIGN WITH EDGE OF GARAGE.
- L

3' X 3' SPLASH PADS FOR DAY-LIGHTED DRAIN LINES FROM GUTTERS & CATCH BASIN
- M

(6) IN DECK POOL FOUNTAINS ARE SHOWN. (3) EACH ON THE NORTH AND SOUTH SIDES. FINAL LOCATIONS TBD BY MOCK PROPERTY SERVICES.

GENERAL CONSTRUCTION NOTES:

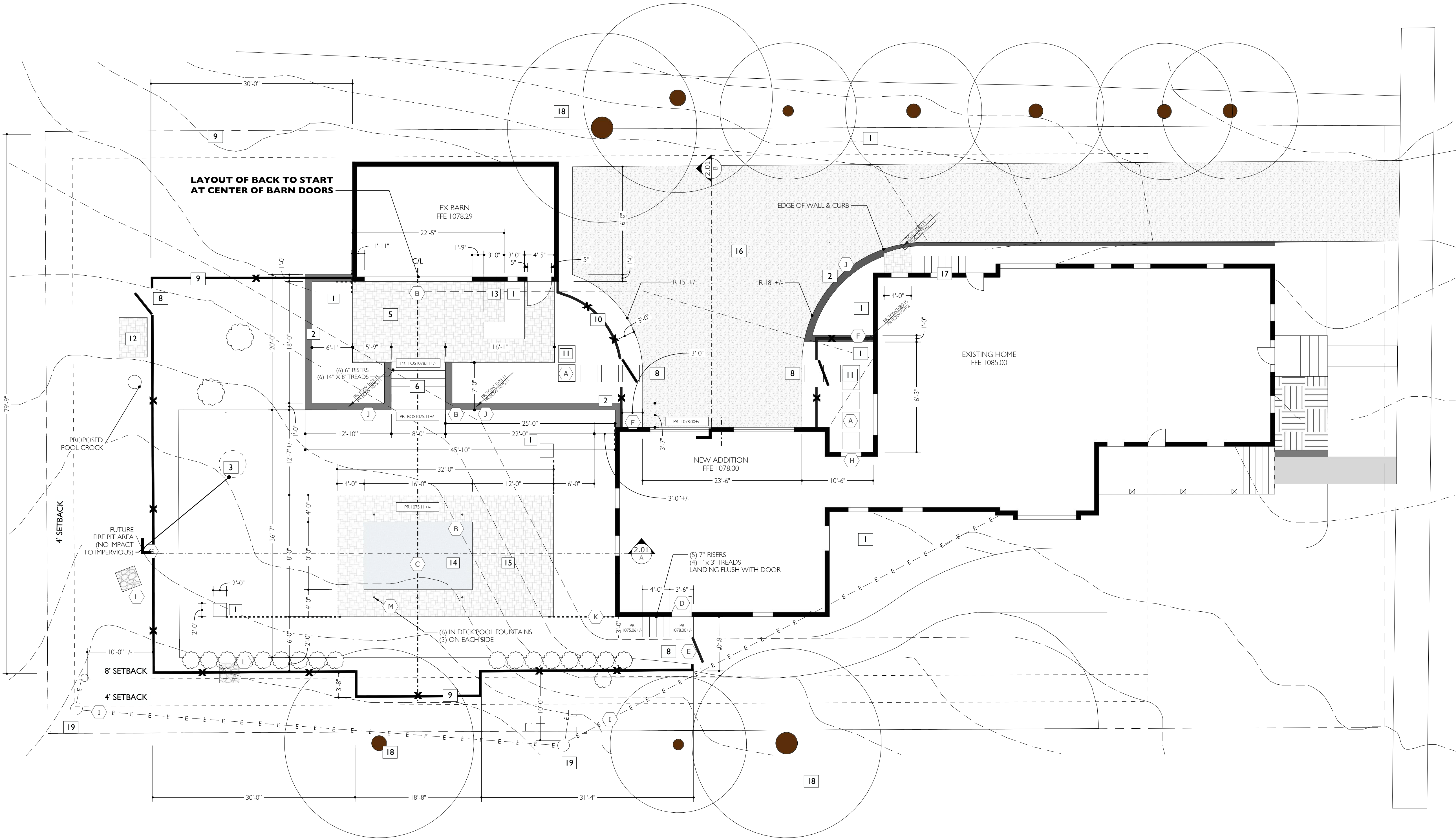
ALL PRODUCTS SHOULD BE INSTALLED PER MANUFACTURERS SPECS AND USING ALL APPROPRIATE CODES AND BEST PRACTICES.

ALL DIMENSIONS ARE TO BE DOUBLE CHECKED BY THE CONTRACTOR AND AMENDED AS NECESSARY. SIGNIFICANT CHANGES SHOULD BE BROUGHT TO DESIGNER'S ATTENTION. ANY DISCREPANCIES SHOULD ALSO BE BROUGHT TO THE DESIGNER'S ATTENTION.

THE POOL EDGE MUST BE 10' AWAY FROM THE EXISTING OVERHEAD POWER LINES.

PER A DISCUSSION WITH HUDSON PUBLIC POWER, THE FENCE IS SHOWN 10' FROM THE EXISTING POWER POLES.

DISCUSSION HAS OCCURRED ABOUT BURYING SOME OF THE ELECTRIC & COMMUNICATION LINES FROM THE HOUSE TO THE EXISTING ELECTRIC POLE AND POSSIBLY EVEN FROM THE ONE POLE TO THE NEXT ALONG THE SOUTH SIDE OF THE PROPERTY. THESE UTILITIES REQUIRE SEPARATE CONDUIT AND THE EXECUTION TO BURY NEEDS TO BE COORDINATED BY ALL APPROPRIATE UTILITIES AS WELL AS THE NEIGHBOR TO THE SOUTH.



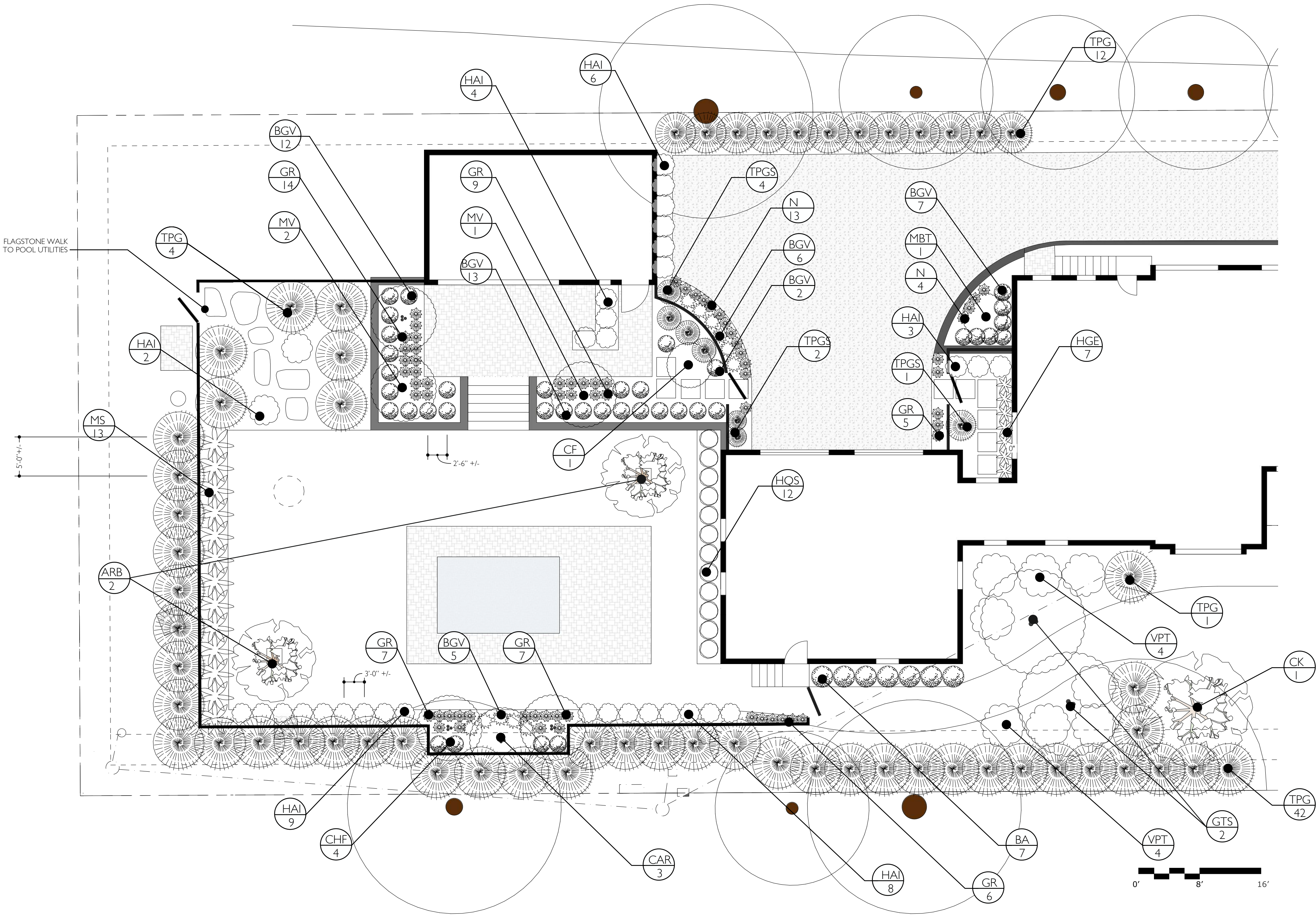
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ALL PLANTS SHOULD BE PLANTED IN APPROPRIATELY AMENDED BEDS AND MULCHED.

ABBR	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
TREES					
ARB	2	ACER RUBRUM BRANDYWINE	BRANDYWINE RED MAPLE		SINGLE TRUNK FORM
CAR	3	CERCIS CANADENSIS APPALACHIAN RED	APP RED REDBUD		SINGLE TRUNK
CF	1	CORNUS FLORIDA	EASTERN DOGWOOD		CLUMP FORM
CK	1	CORNUS KOUSA	CHINESE DOGWOOD		SINGLE TRUNK FORM
MBT	1	MAGNOLIA BLACK TULIP	BLACK TULIP MAGNOLIA		SINGLE TRUNK FORM
HV	3	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA		SINGLE TRUNK FORM
GTS	2	GLEDTISIA TRI STREET KEEPER	STREET KEEPER HONEY LOCUST		PLANTED 5' O.C.
TPG	67	THUJA PLICATA GREEN GIANT	GREEN GIANT ARB		
TPGS	7	THUJA PLICATA GREEN SCREEN	GREEN SCREEN ARB		
SHRUBS					
BGV	45	BUXUS GREENVELVET	GREENVELVET BOXWOOD		TRY & GET A 4' OR TALLER HEIGHT TO START - GOAL IS TO HIDE UTILITES
CHF	4	CEPHALOTAXUS HARRINGTONIA FASTIGIATA	UPRIGHT JAPANESE PLUM YEW		
HAI	32	HYDRANGEA ARB INCREDIBALL	INCREDIBALL SMOOTH HYDRANGEA		
HQS	12	HYDRANGEA QUERCIFOLIA SIKES DWARF	SIKES DWARF OAKLEAF HYDRANGEA		
VPT	8	VIBURNUM PLI TOM MARISEI	MARISEI DOUBLE FILE VIBURNUM		
VINES, GROUND COVER, & PERENNIALS					
BA	7	BAPTISIA AUSTRALIS	FALSE INDIGO		
GR	42	GERANIUM ROZANNE	ROZANNE GERANIUM		
HGE	7	HOSTA GREAT EXPECTATIONS	GREAT EXPECTATIONS HOSTA		
MS	13	MISCANTHIS SINENSIS GRACILLIMUS	MAIDEN GRASS		
NWL	17	NEPETA WALKER'S LOW	WALKER'S LOW CATMINT		

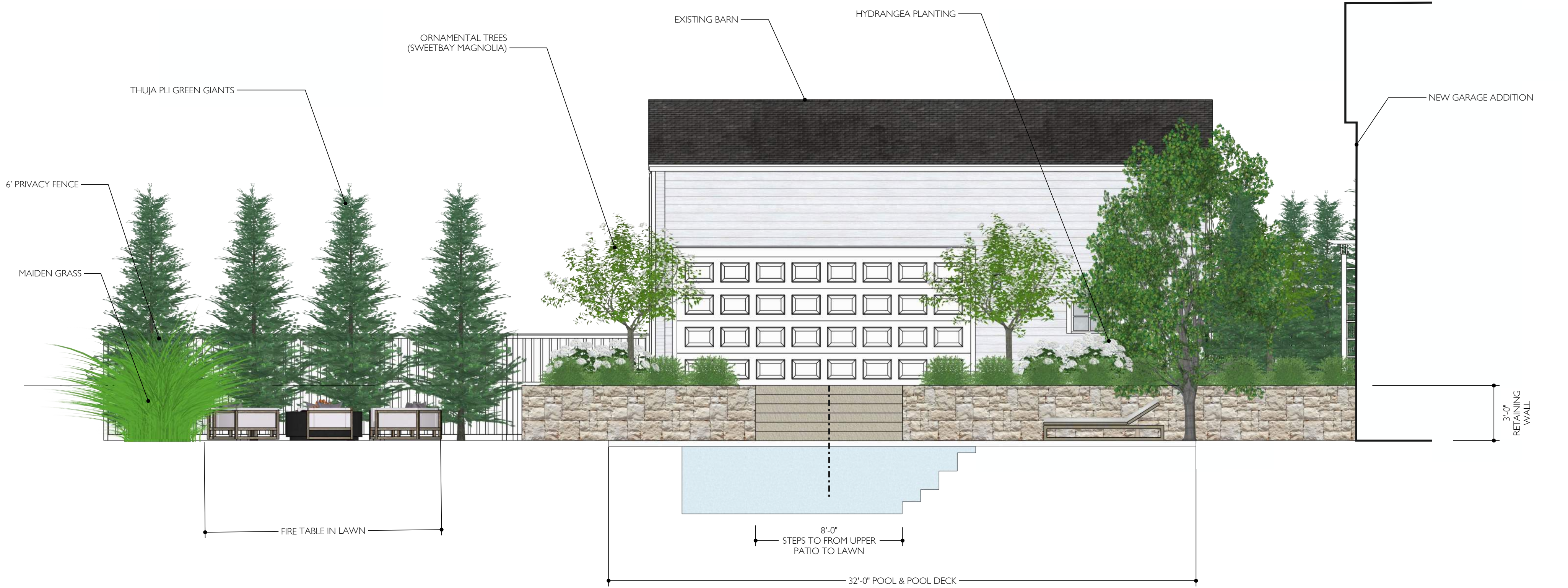


GENERAL CONSTRUCTION NOTES:

ALL PRODUCTS SHOULD BE INSTALLED PER MANUFACTURERS SPECS AND USING ALL APPROPRIATE CODES AND BEST PRACTICES.

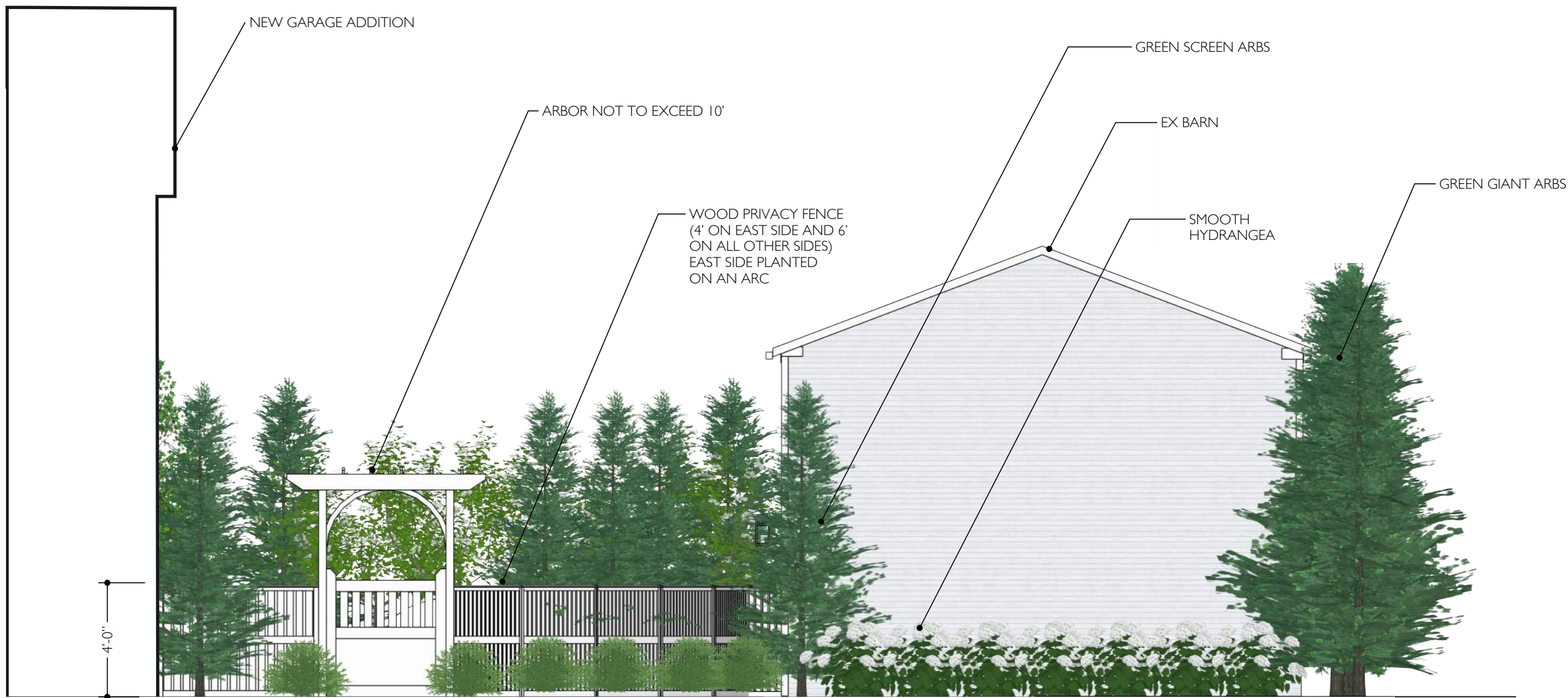
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ALL PLANTS SHOULD BE PLANTED IN APPROPRIATELY AMENDED BEDS AND MULCHED.



A NORTH FACING SECTION OF POOL & EXISTING BARN

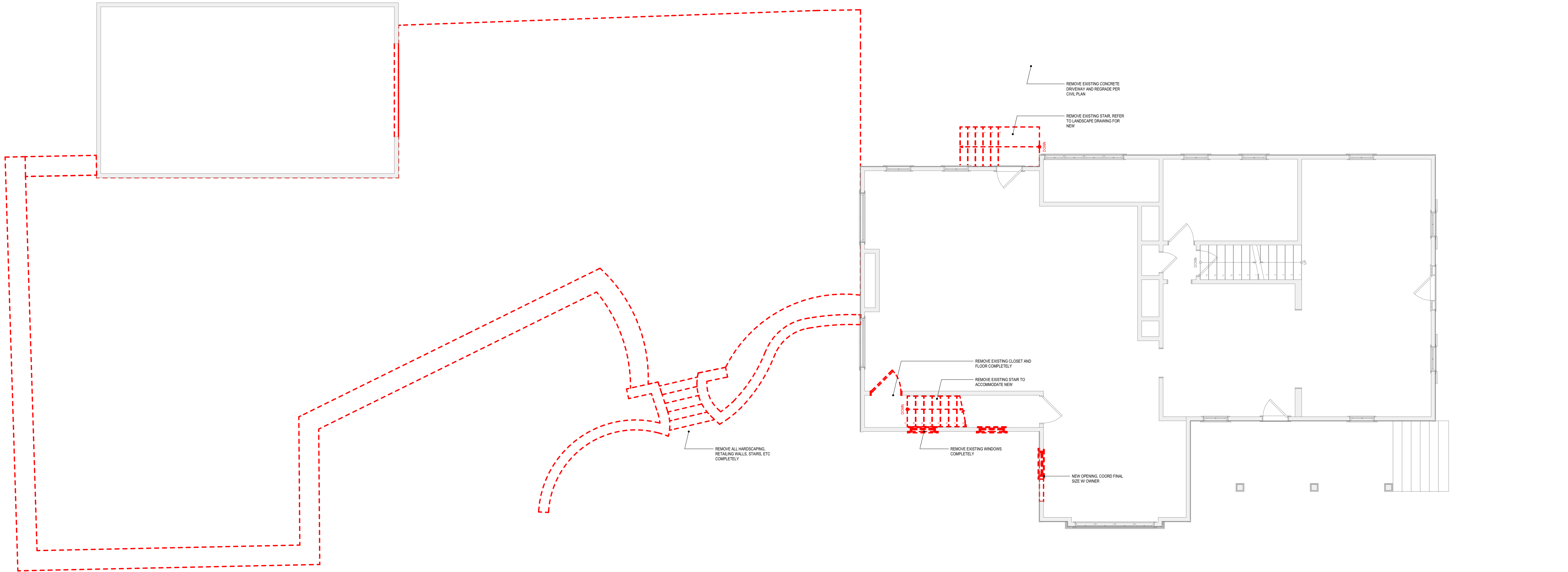
SCALE: 1"=4'-0"



B WEST FACING SECTION SHOWING ENTRANCE TO POOL WITH ARBOR

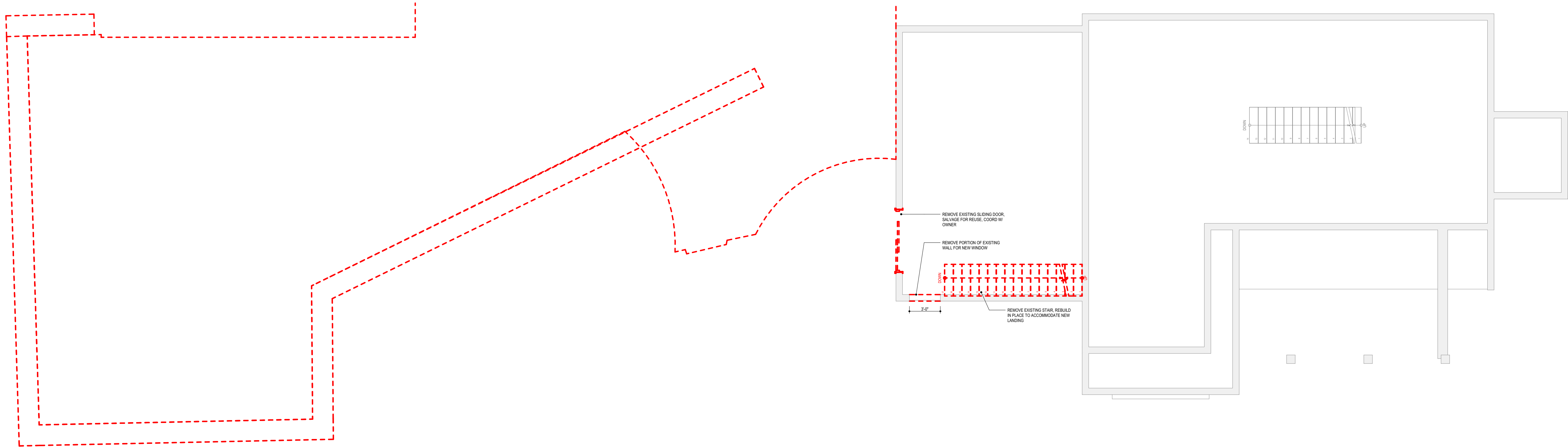
SCALE: 1"=4'-0"

ISSUE	ID	DATE
BIDDING	A	05/27/2026



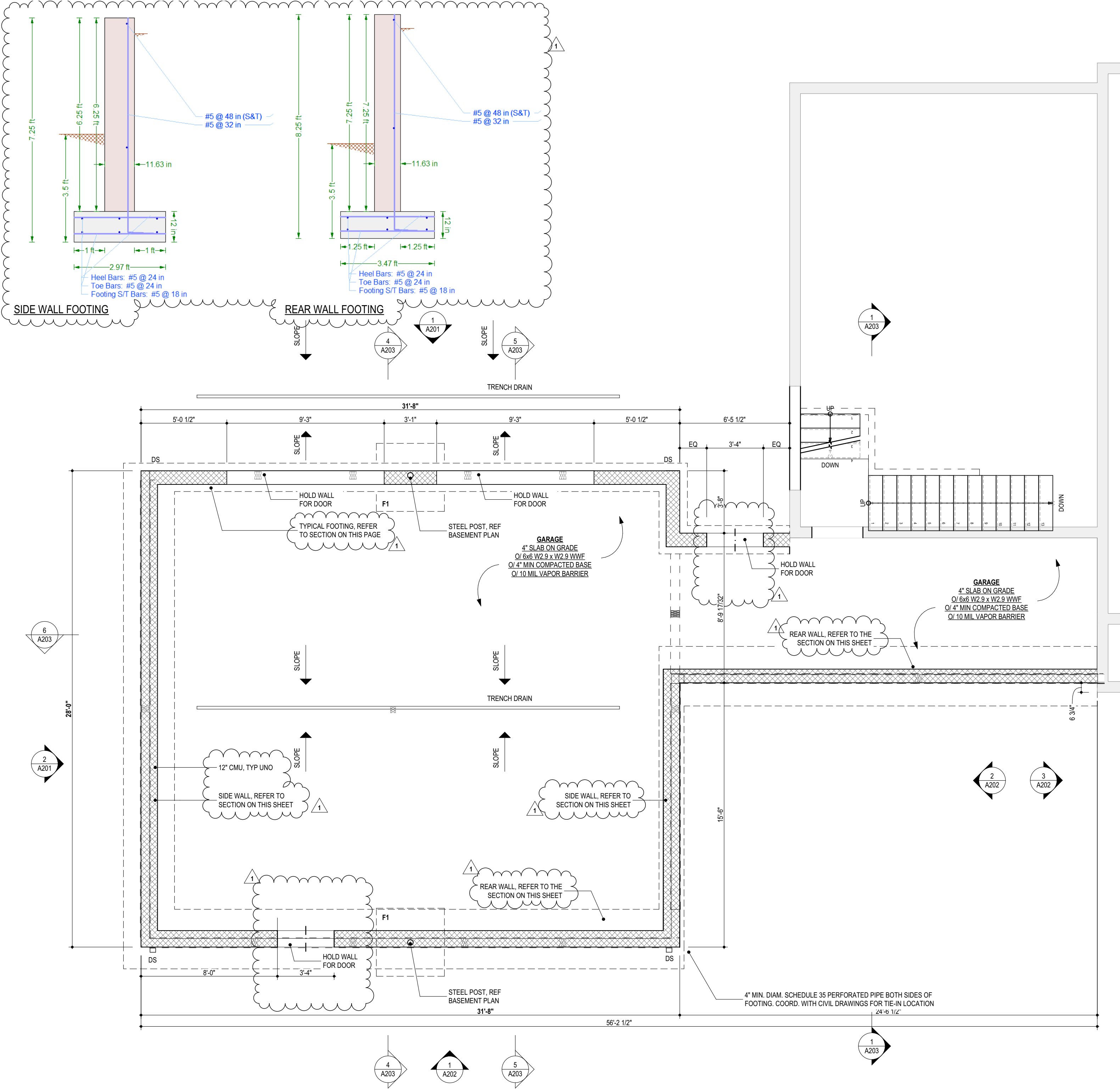
1 FIRST FLOOR DEMOLITION PLAN

SCALE: 3/16" = 1'-0"



2 FOUNDATION DEMOLITION PLAN

SCALE: 3/16" = 1'-0"



FOUNDATION PLAN

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



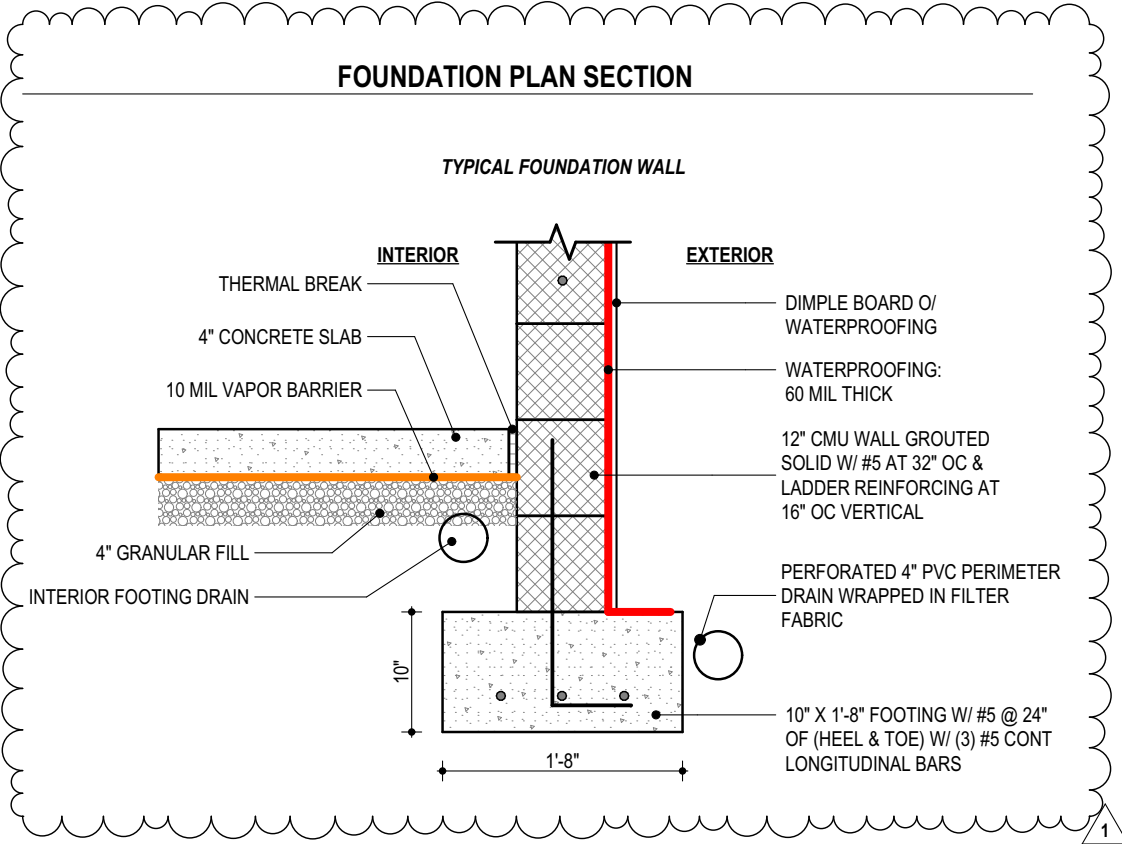
BASEMENT PLAN

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



- CONCRETE SLAB NOTES**
- INTERIOR CONCRETE SLAB CONSTRUCTION**
- + 4" 4000 PSI CONCRETE
 - + GRANULATED BLAST FURNACE SLAG CEMENT
 - + FLVASH
 - + HIGH RANGE WATER REDUCING ADMIXTURE
 - + EX6 W2.9 X W2.9 (MATS ONLY)
 - + STEGO INDUSTRIES "STEGO WRAP", ASTM E-1745 CLASS A W PERMEANCE OF 0.01 OR EQUAL
 - + 6" COMPACTED ODOT 304
 - + COMPACTED AND PROOF ROLLED SUBGRADE
 - + REFERENCE FINISHED FLOOR ELEV = 0'-0"
 - + CUT CONTROL JOINTS IN SQUARE PATTERN NO MORE THAN 12'-0" ON CENTER WITHIN 8 HOURS AFTER PLACING CONCRETE
 - + CURE CONCRETE WITH DISSIPATING CURING AGENT THAT DOES NOT ADVERSELY AFFECT FLOOR FINISH ADHESIVES
 - + SLOPE CONCRETE WITH SELECT AREAS TO DRAIN AT SLOPE.
- EXTERIOR CONCRETE SLAB CONSTRUCTION**
- + 4" 4000 PSI CONCRETE
 - + 6% ENTRAINED AIR
 - + EX6 W2.9 X W2.9 (MATS ONLY)
 - + 6" COMPACTED ODOT 304 ON COMPACTED SUBGRADE
 - + REFER TO CIVIL DRAWINGS FOR ELEVATIONS

- FOUNDATION PLAN GENERAL NOTES**
- SECTION 902.8**
- NOTCHES IN THE TOP OR BOTTOM OF JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH OF THE JOIST AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. WHERE JOISTS ARE NOTCHED ON THE ENDS FOR A LEDGER, THE NOTCH SHALL NOT EXCEED ONE-FOURTH THE JOISTS DEPTH. CANTILEVERED JOISTS SHALL NOT BE NOTCHED UNLESS THE REDUCED SECTION PROPERTIES AND LUMBER DEFECTS ARE CONSIDERED IN THE DESIGN. HOLES DRILLED OR BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OR THE JOISTS AND THEIR DIAMETER SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.
- SECTION 902.8**
- ANY STUD IN AN EXTERIOR BEARING PARTITION MAY BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NON-BEARING PARTITIONS MAY BE NOTCHED TO A DEPTH NOT TO EXCEED 45% OF A SINGLE STUD WIDTH. ANY STUD MAY BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLES IS NO GREATER THAN 40% OF THE STUD WIDTH. THE EDGE OF THE HOLE IS NO CLOSER THAN 5/8 INCH TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH.
- COLUMN & FOOTING SCHEDULE**
- ALL COLUMNS TO HAVE 12" CAP BEARING PLATES W/ (4) 5/8" BOLTS IN EACH PLATE
- F1** 4'-0" x 4'-0" x 10" W/ (3) #5 EACH WAY BENEATH GARAGE COLUMN



- FLOOR PLAN GENERAL NOTES**
- VERIFY DIMENSIONS AND CONDITIONS IN FIELD. WHEN DIMENSIONS AND/OR CONDITIONS AS INDICATED ON DRAWINGS CONFLICT WITH ACTUAL, CONTACT ARCHITECT FOR CLARIFICATION
- PROVIDE SOUND DEADENING INSULATION AROUND BEDROOMS, BATHROOMS, MECHANICAL ROOMS, AND PLUMBING STACKS
- BLOCK WEBS SOLID AT BEARING WALL LOCATIONS ABOVE
- CONTRACTOR TO EXTEND ALL POSTS DOWN TO SOUND FOUNDATION. INSTALL FULL DEPTH SOLID BLOCKING AT ALL POINT LOAD LOCATIONS.
- ALL FOOTINGS TO EXTEND DOWN TO FROST LEVEL MINIMUM.
- COORDINATE EXACT LOCATIONS OF FLOOR DRAINS WITH MECHANICAL CONTRACTOR.
- PROVIDE 5/8" GYP. BOARD TYPE "X" ON GARAGE CEILINGS.
- ALL INTERIOR DOORS TO BE 1 7/8" SOLID CORE WOOD DOORS. COORDINATE WITH FINISH PLANS FOR FINAL FINISH SELECTIONS
- ALL INTERIOR TRIM TO BE POPLAR OR APPROVED EQUAL. COORDINATE WITH INTERIOR ELEVATIONS AND MILLWORK DRAWINGS FOR SELECT TYPES AND PROFILES.
- ALL MILLWORK TO BE PER DRAWINGS.
- REFER TO CONSULTANT DRAWINGS IF APPLICABLE FOR COORDINATION OF WORK BETWEEN TRADES
- FLOOR TRUSS CRITERIA**
- TCL= 30 PSF
TCDL= 10 PSF
BCDL= 10 PSF
NET UPLIFT= 15 PSF
19/32" APA RATED EXPOSURE 1 OSB
- ROOF TRUSS CRITERIA**
- TCLL= 25 PSF
TCDL= 10 PSF
BCDL= 10 PSF
NET UPLIFT= 10 PSF
ATTIC LL= 40 PSF
ΔTL < L/240
- WINDOW SCHEDULE**
- | ID | QTY | W x H |
|-----|-----|-------------|
| W01 | 13 | 3'-0"x3'-0" |
| W02 | 3 | 2'-6"x5'-0" |
- INDICATES WEB STIFFENING BELOW BEARING WALL ABOVE
- INDICATES AREA OF ADDITIONAL FRAMING REQUIRED
- INDICATES POINT LOAD FROM ABOVE
- INDICATES LOCATION OF BEARING WALL ABOVE
- INDICATES BEARING WALL

PROJECT #: 2525		
ISSUE	ID	DATE
ADDENDUM #1	1	07/16/2026
BIDDING	A	05/27/2026

EXTERIOR ELEVATION GENERAL NOTES

ALL TRIM AT WINDOWS AND DOORS TO AZEK, PAINTED.
ALL EXPOSED WOOD ELEMENTS AND TONGUE AND GROOVE CEILINGS IS TO BE PINE, STAINED AND SEALED. COORDINATE FINAL COLOR WITH OWNER.
ALL ROOF PENETRATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION TO ENSURE AESTHETIC EXPECTATIONS ARE MAINTAINED.

MATERIAL SCHEDULE

SIDING 01
HORIZONTAL FIBER CEMENT LAP SIDING (JAMES HARDIE), PAINT BY OWNER
EXPOSURE: 6" ASSUMED, MATCH EXISTING RESIDENCE

SIDING 02
NOT USED

SIDING 03
BORAL PANELS & TRIM

ROOF 01
CERTAINTED LANDMARK PRO
COLOR BY OWNER

ROOF 02
RUBBER ROOF MEMBRANE

WINDOWS
ALUMINUM CLAD WOOD WINDOW
WINDSOR PINNACLE, SIMULATED DIVIDED LITE
COLOR: WHITE

TRIM
AZEK OR BORAL TRIM, PAINTED

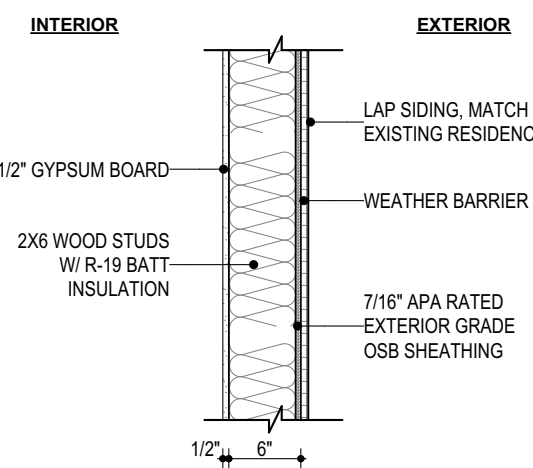
GUTTERS & DOWNSPOUTS
ALUMINUM 6" X STYLE GUTTER & DOWNSPOUT
COLOR: WHITE

GARAGE DOOR
CLOPAY COACHMAN
COMPOSITE OVERLAY
COLOR: WHITE

EXTERIOR DOOR
THERMA-TRU DOOR

EXTERIOR WALL TYPES

NOTE: WALL INFORMATION IS DEMONSTRATED IN PLAN VIEW



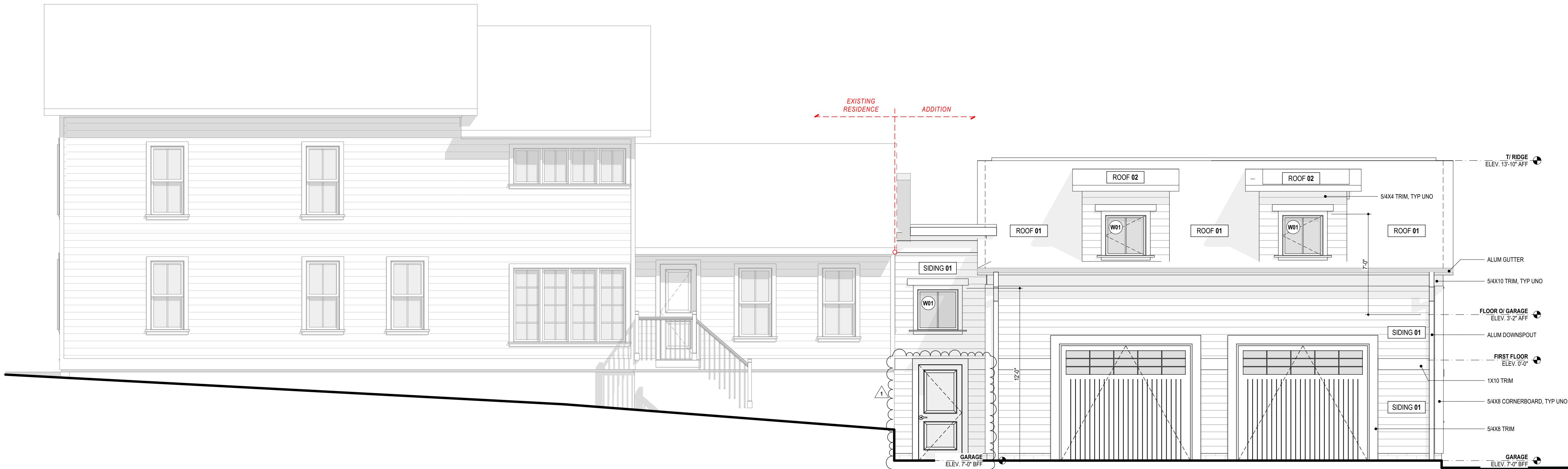
WINDOW SCHEDULE			
ID	QTY	W x H	
W01	13	3'-0\" x 3'-0\"	
W02	3	2'-6\" x 5'-0\"	

PROJECT #: 2525

ISSUE	ID	DATE
ADDENDUM #1	1	07/16/2026
BIDDING	A	05/27/2026

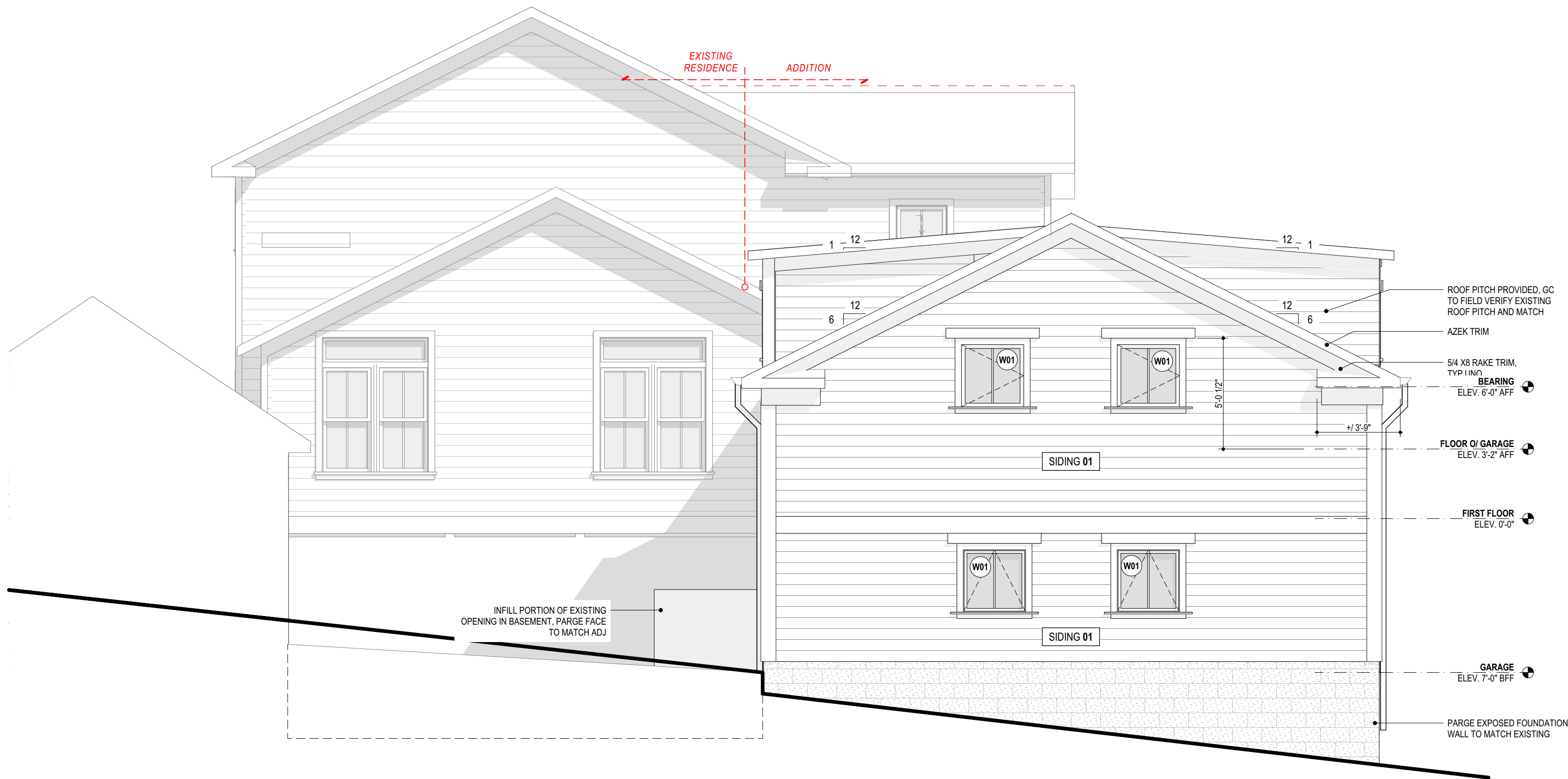
FOR
CONSTRUCTION

EXTERIOR ELEVATIONS,
SECTIONS, & DETAILS



1 NORTH ELEVATION - FRONT OF GARAGE

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



2 WEST ELEVATION - SIDE OF GARAGE

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

EXTERIOR ELEVATION GENERAL NOTES

ALL TRIM AT WINDOWS AND DOORS TO AZEK, PAINTED.

ALL EXPOSED WOOD ELEMENTS AND TONGUE AND GROOVE CEILINGS IS TO BE PINE, STAINED AND SEALED. COORDINATE FINAL COLOR WITH OWNER.

ALL ROOF PENETRATIONS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION TO ENSURE AESTHETIC EXPECTATIONS ARE MAINTAINED.

MATERIAL SCHEDULE

SIDING 01
HORIZONTAL FIBER CEMENT LAP SIDING (JAMES HARDIE), PAINT BY OWNER
EXPOSURE: 6" ASSUMED, MATCH EXISTING RESIDENCE

SIDING 02
NOT USED

SIDING 03
BORAL PANELS & TRIM

ROOF 01
CERTAINTED LANDMARK PRO
COLOR BY OWNER

ROOF 02
RUBBER ROOF MEMBRANE

WINDOWS
ALUMINUM CLAD WOOD WINDOW
WINDSOR PINNACLE, SIMULATED DIVIDED LITE
COLOR: WHITE

TRIM
AZEK OR BORAL TRIM, PAINTED

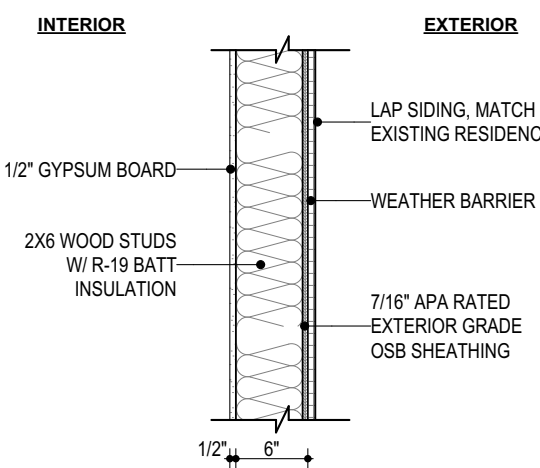
GUTTERS & DOWNSPOUTS
ALUMINUM 6" X STYLE GUTTER & DOWNSPOUT
COLOR: WHITE

GARAGE DOOR
CLOPAY COACHMAN
COMPOSITE OVERLAY
COLOR: WHITE

EXTERIOR DOOR
THERMA-TRU DOOR

EXTERIOR WALL TYPES

NOTE: WALL INFORMATION IS DEMONSTRATED IN PLAN VIEW



WINDOW SCHEDULE		
ID	QTY	W x H
W01	13	3'-0\"
W02	3	2'-6\"

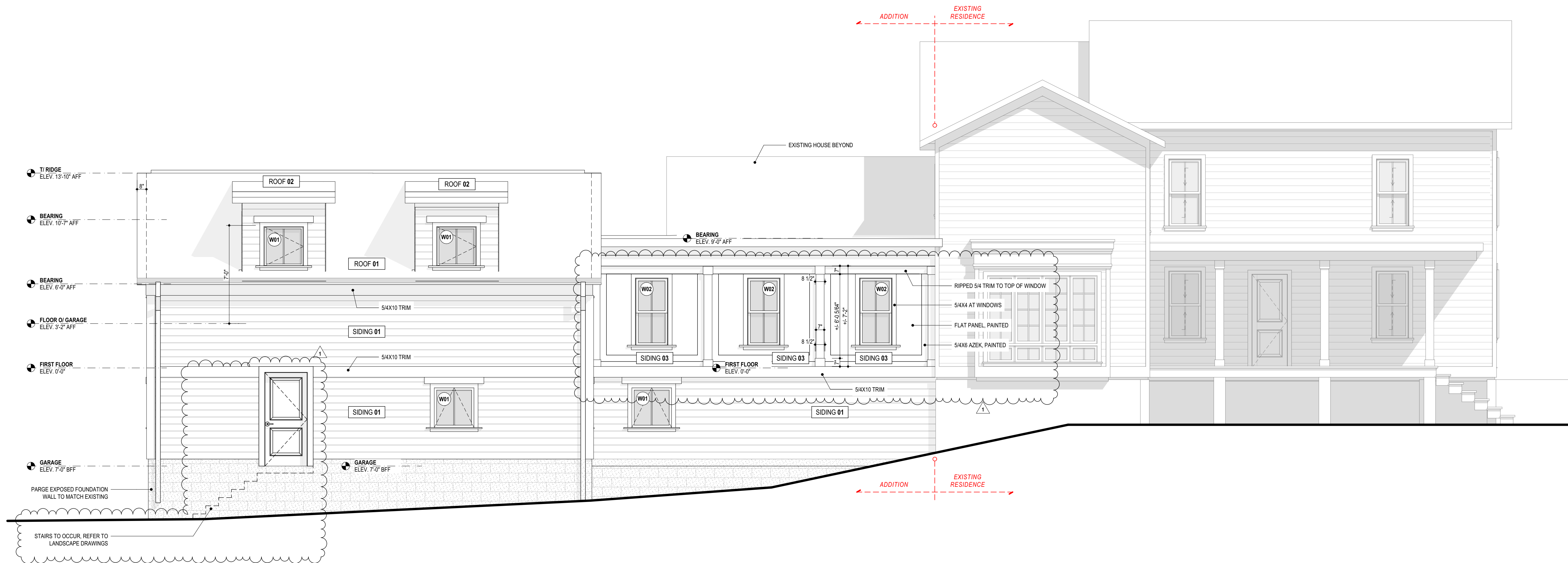
FORSYTH RESIDENCE
258 NORTH MAIN STREET, Hudson, Ohio 44236

PROJECT #: 2525

ISSUE	ID	DATE
ADDENDUM #1	1	07/16/2026
BIDDING	A	05/27/2026

**FOR
CONSTRUCTION**

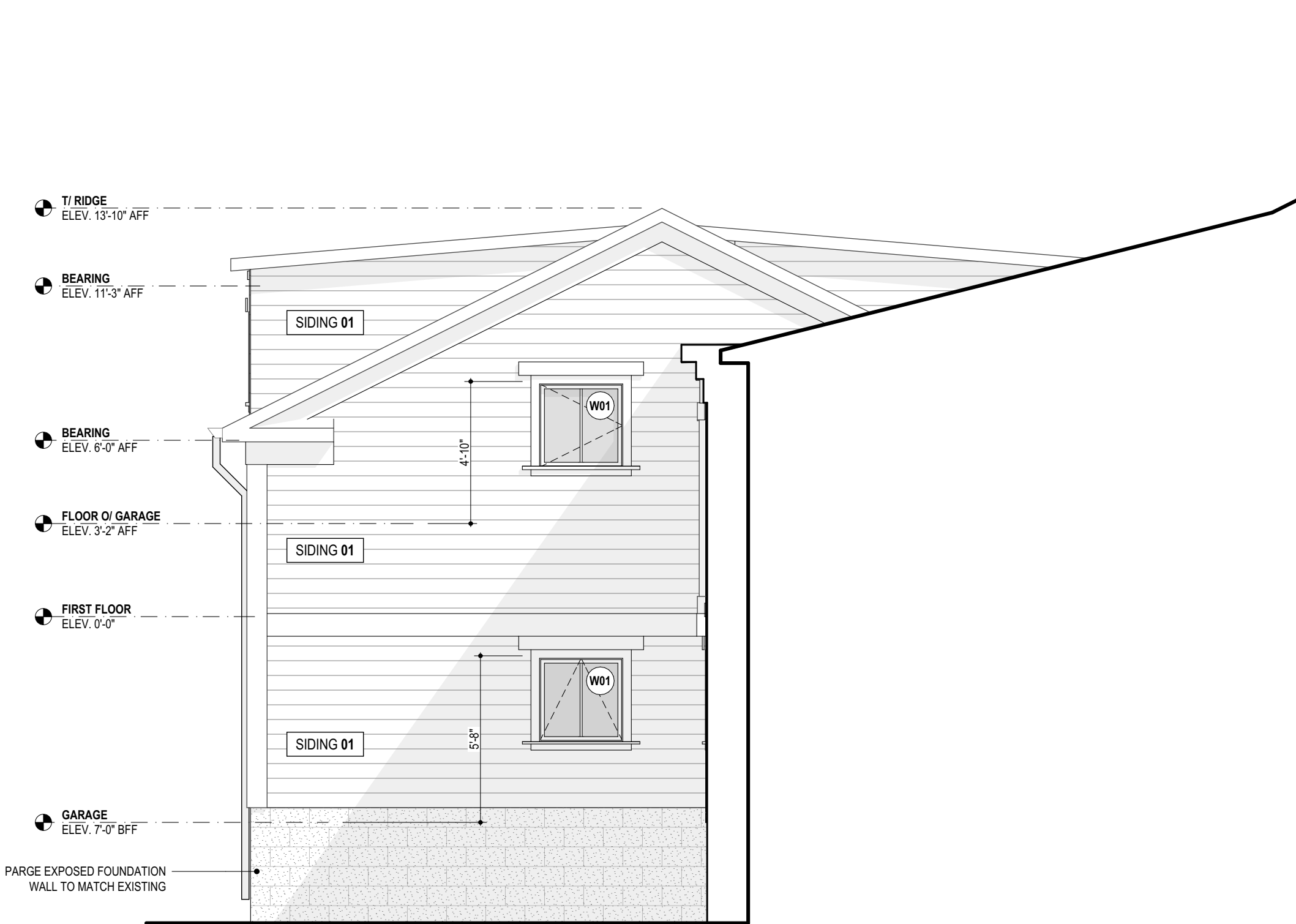
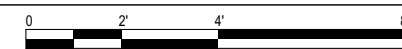
EXTERIOR ELEVATIONS,
SECTIONS, & DETAILS



1

SOUTH ELEVATION - REAR OF GARAGE

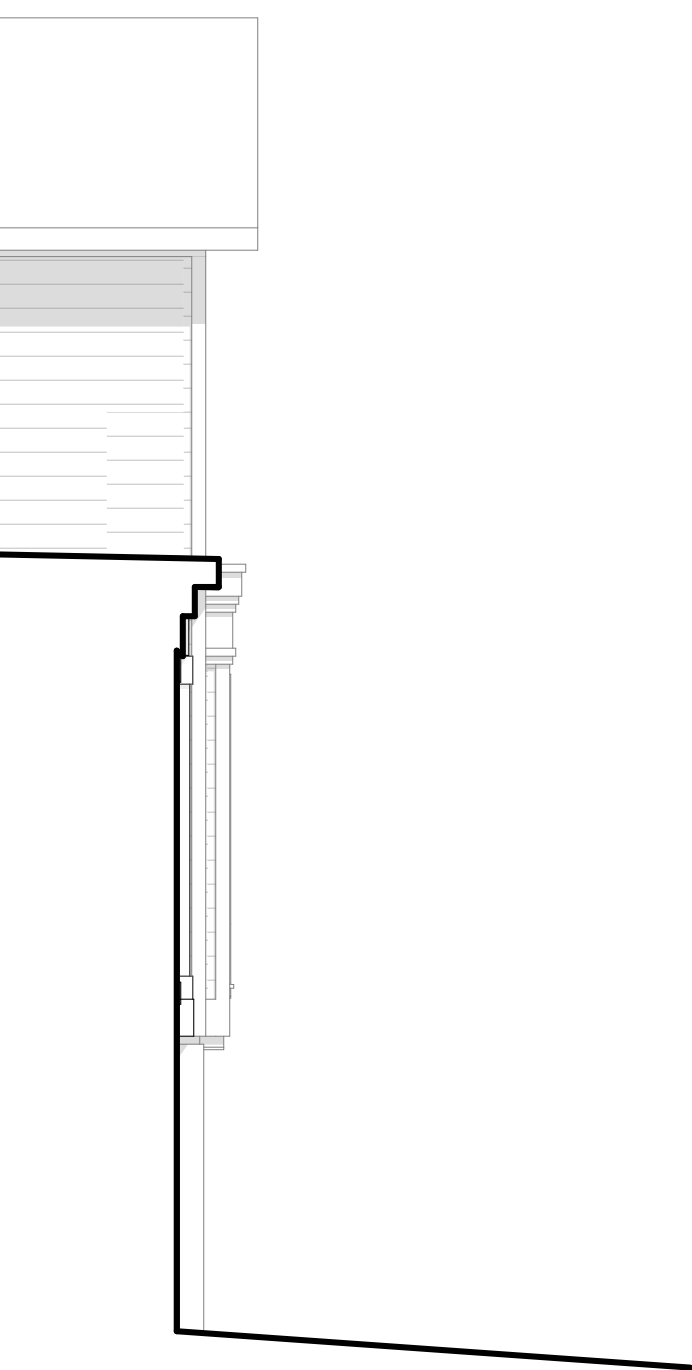
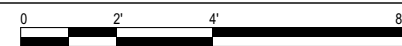
SCALE: 1/4\"



2

EAST ELEVATION - SIDE OF GARAGE

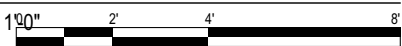
SCALE: 1/4\"

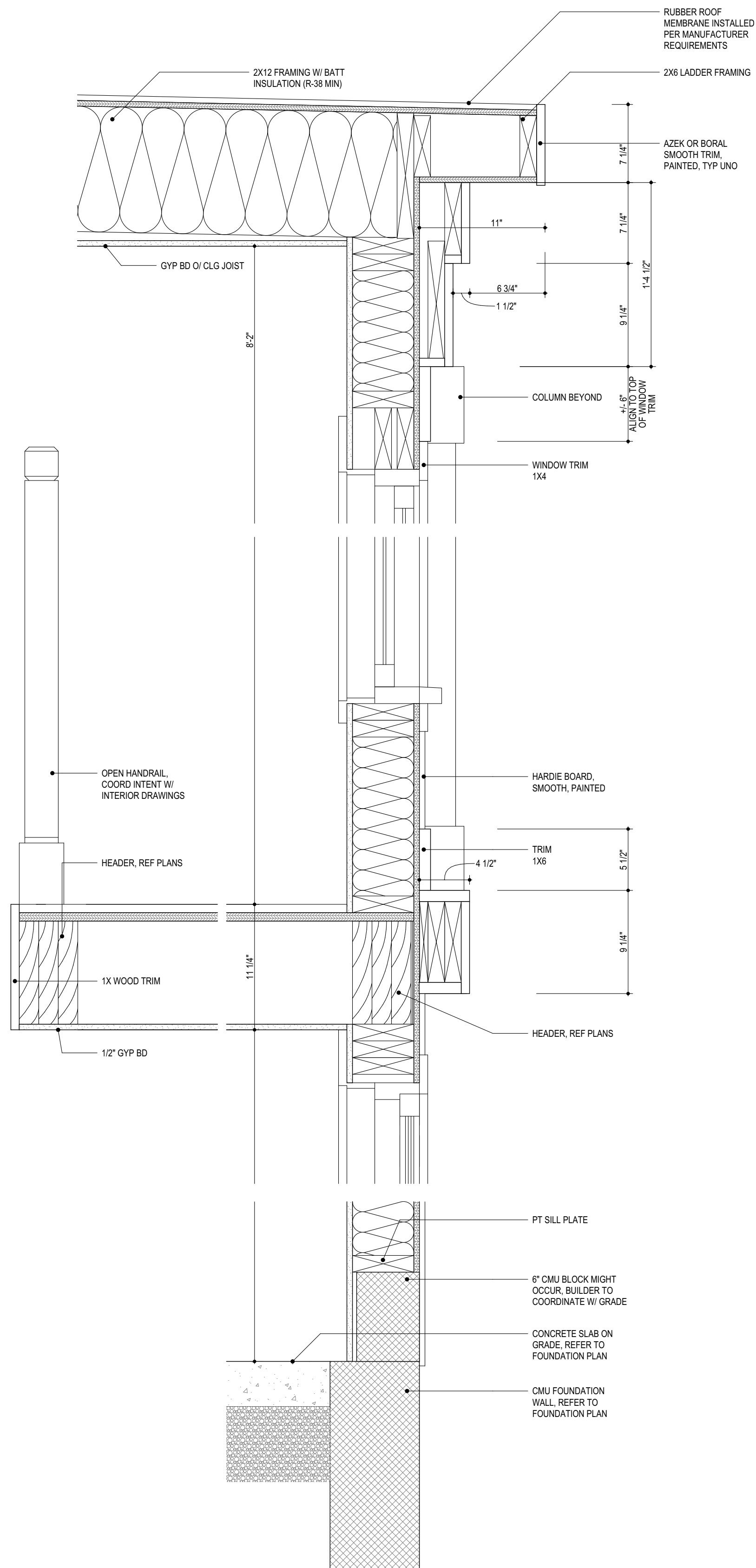


3

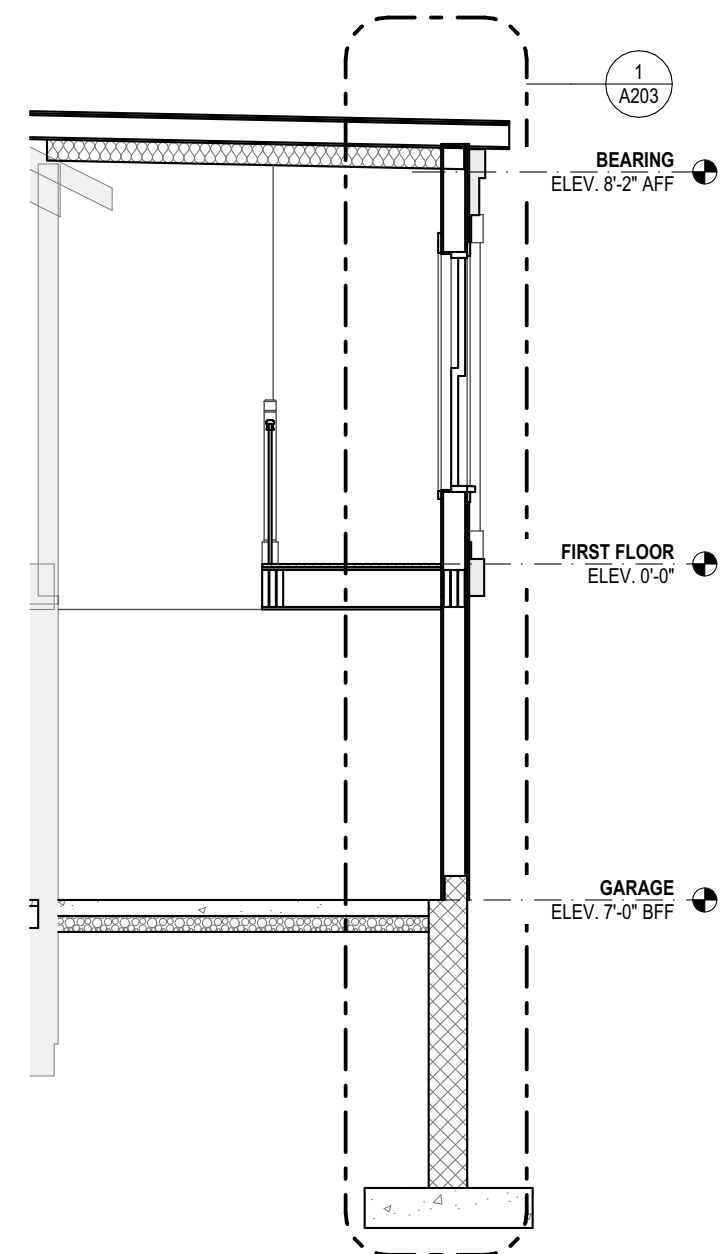
PARTIAL WEST ELEVATION - SIDE OF RESIDENCE

SCALE: 1/4\"

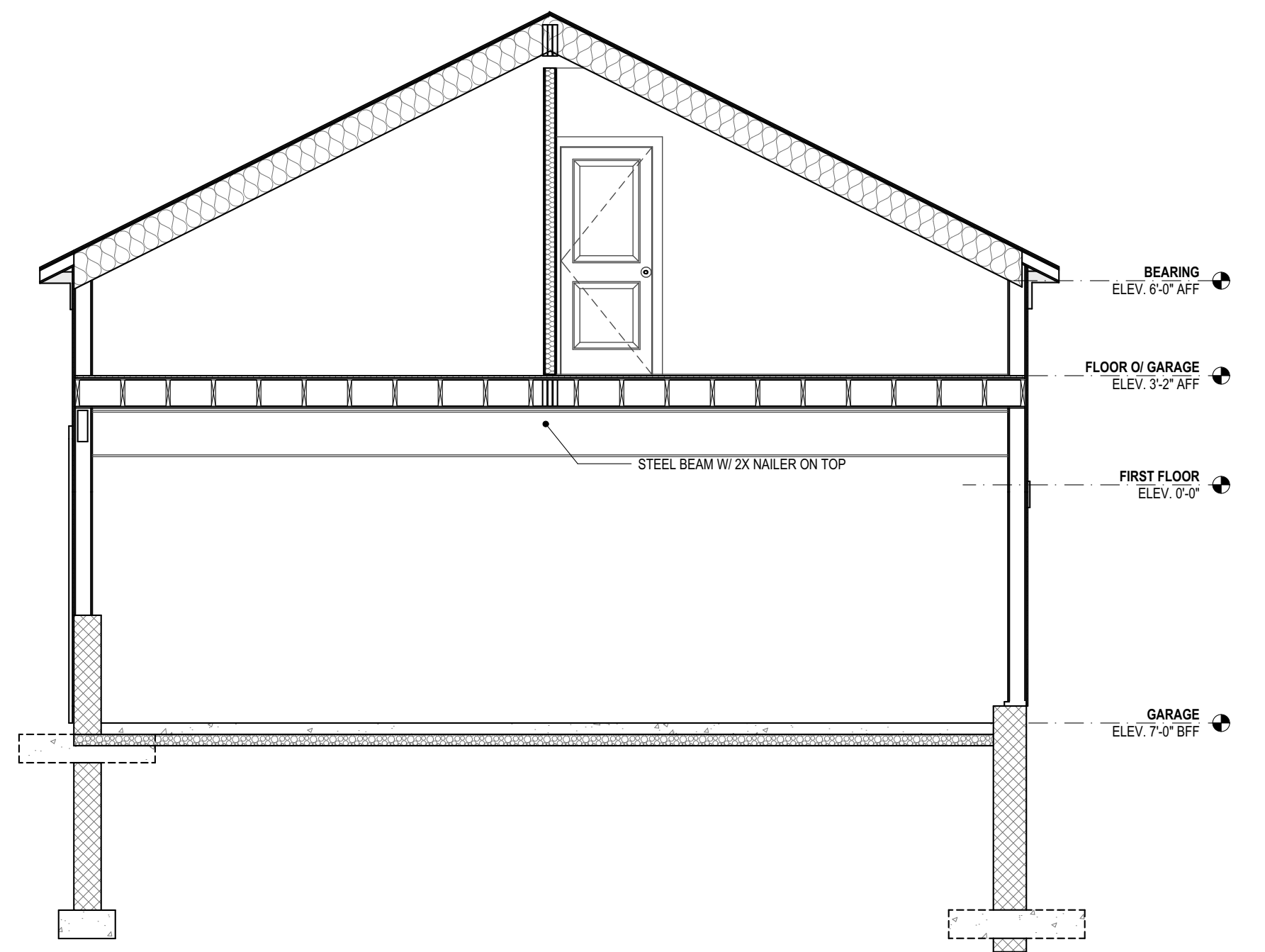




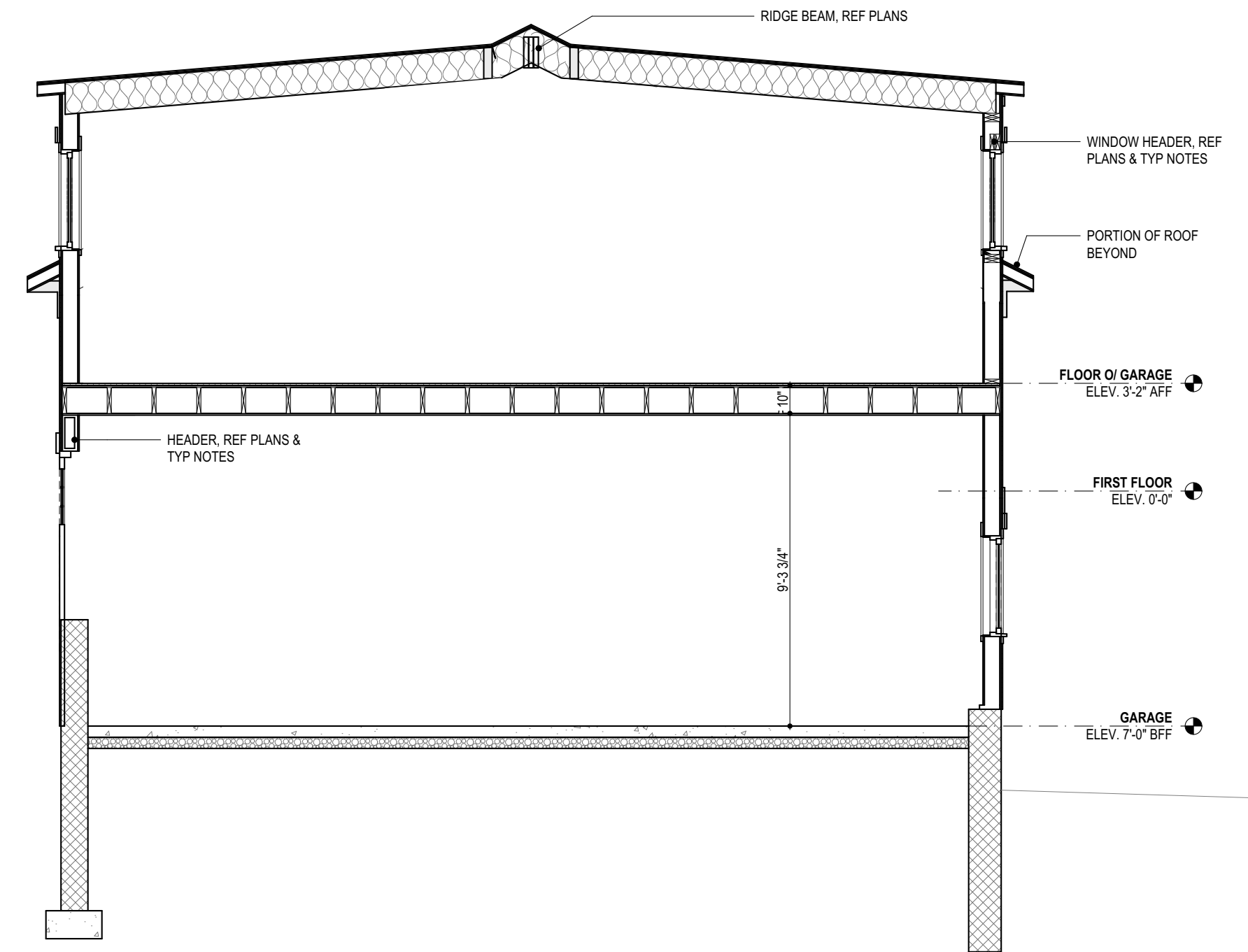
1 WALL SECTION A
SCALE: 1 1/2" = 1'-0"



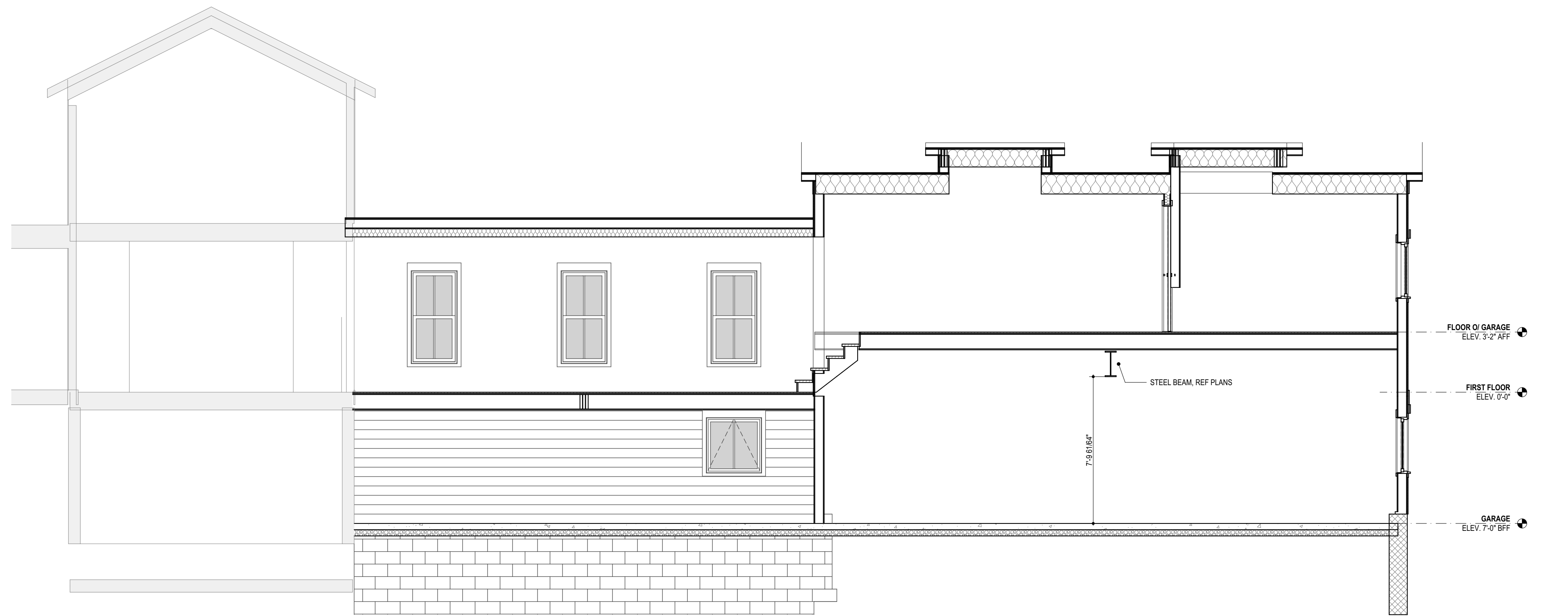
3 BUILDING SECTION A
SCALE: 1/4" = 3'-0"



4 BUILDING SECTION C
SCALE: 1/4" = 1'-0"



5 BUILDING SECTION A
SCALE: 1/4" = 1'-0"



6 BUILDING SECTION B
SCALE: 1/4" = 1'-0"

























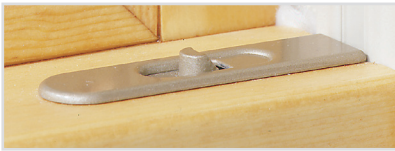




Pinnacle Double Hung & Glide-by

Features and Benefits

- The warmth and beauty of Clear Select Pine, Douglas Fir or Natural Alder; can be painted or stained
- Clad units offer a strong, durable extruded aluminum sash and frame for low maintenance; primed units offer the traditional appearance of decorative cellular PVC trim
- Glass is replaceable in case of damage
- Both tape and silicone glazed, with interior wood stops for superior strength and seal
- EZ Tilt operation available for easy removal and replacement of sash (double hung only)



- Both sashes tilt in with compression or concealed jambliner for easy cleaning
- Recessed lock and keeper for a sleek appearance



- Block and tackle balance system for ease of operation
- Prime double hung units come standard with cellular PVC trim, blind stop and sill
- No-finger pull option for hardware application

Sizes

Available in hundreds of standard and custom sizes

Glazing

- Windsor Glazing System provides 3/4" double pane insulated glass; Cardinal® LoE 366 glass standard; tinted, tempered, obscure and laminated glass available
- Glazed with tape and silicone sealant
- Custom and special glass types available
- Preserve protective film optional

Exterior Trim

- Clad windows available with WM 180 brickmould, Williamsburg, or 3-1/2" flat casing; 3/8", 1-1/4", 2-1/4" subsills
- Primed windows available with WM 180 brickmould, WM 180 brickmould with flange, Williamsburg, 3-1/2" flat, 4-1/2" backband, 5-1/2" flat or plantation casing; double hung sill nose, 2" bull nose sill nose or belly sill nose
- All prime window trims, sill nose and outside stops are cellular PVC

Grilles

Windsor Divided Lite (WDL) = simulated divided lite

- 7/8" and 1-1/4" Perimeter Grille (*NOT available on radius double hung*)
- 7/8" and 1-1/4" Stick Grille
- 3/4" and 1" Profiled Inner Grille
- 13/16" Flat Inner Grille
- 7/8" and 1-1/4" Ogee WDL
- 5/8", 7/8", 1-1/4" and 2" Short Putty WDL
- 5/8", 7/8", 1-1/4" and 2" Short Contemporary WDL
- 2" Simulated Check Rail (*DH picture only*)
- Standard and custom grille patterns available

Finishes

- Interior – Available in Clear Select Pine, Douglas Fir or Natural Alder
 - Primed: white or black
 - Painted: white, black or gray
 - Stained: 9 color options
- Exterior – Clad windows feature heavy-duty extruded aluminum cladding on sash and frame; primed windows (*double hung only*) offer an assortment of traditional cellular PVC trim options

Clad Colors

All clad colors painted in-house with the highly durable AAMA 2604 standard finish, or upgrade to AAMA 2605 for the most challenging of environments

- 24 Standard Clad Colors available in 2604 and 2605 finish
- 20 Feature Clad Colors available in 2604 and 2605 finish (Custom color matching is also available)
- 7 Matte Clad Colors available in the 2604 finish only

Hardware

Double hung lock available in champagne, white, bronze and black; optional finishes in faux bronze, oil rubbed bronze, satin nickel and bright brass

Performance Ratings

For current performance ratings, visit our website at windsorwindows.com and click on "Professional Information" in the menu bar



Hardie® Plank Lap Siding

Submittal Form

01
Submitted to:

Project Name:

Submitted by:

Date:

☐ **HZ5® Product Zone** ☐ **HZ10® Product Zone**
Product Width: ☐ 5-1/4in ☐ 6-1/4in ☐ 7-1/4in ☐ 8in ☐ 8-1/4in ☐ 9-1/4in ☐ 12in

Product Finish: ☐ **Primed** ☐ **ColorPlus® Technology**
Product Texture: ☐ **Smooth** ☐ **Select Cedarmill®** ☐ **Colonial Roughsawn®**
☐ **Colonial Smooth®** ☐ **Rustic Cedar**

Hardie® Plank Lap Siding

Specification Sheet

01
DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION
SECTION: 07 46 46 FIBER CEMENT SIDING

HARDIE® PLANK LAP SIDING

Manufacturer

James Hardie Building Products, Inc.

The products are manufactured at the following locations, with quality control inspections by ICC-ES:

- Cleburne, Texas
- Plant City, Florida
- Reno, Nevada
- Waxahachie, Texas
- Prattville, Alabama
- Peru, Illinois
- Pulaski, Virginia
- Tacoma, Washington
- Fontana, California
- Summerville, South Carolina

Compliance with the following codes

- 2006 thru 2021 International Building Code (IBC)
- 2006 thru 2021 International Residential Code (IRC)

For more information about other compliances and applicable uses, refer to ICC-ES ESR-2290

Features

- Noncombustible
- Dimensionally Stable
- Resists damage from pests
- Weather Resistant-Engineered for Climate®
- Impact resistant
- Sustainable

Use

Hardie® fiber-cement lap siding is used as exterior wall covering. The product complies with IBC Section 1403.9 and IRC Section R703.10. The product may be used on exterior walls of buildings of Type I, II, III and IV construction (IBC)

Description

Hardie® Plank lap siding is a single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie® Plank lap siding complies with ASTM C1186, as Grade II, Type A; has a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and is classified as noncombustible when tested in accordance with ASTM E136.

Available Sizes

Product	Width (in)	Length	Thickness (in)
Hardie® Plank lap siding*	5-1/4, 6-1/4, 7-1/4, 8, 8-1/4, 9-1/4, 12	12 feet	5/16

* HZ5: 9-1/4, 12 only available primed HZ10: 5-1/4, 9-1/4, 12 only available primed.

Weight 2.31 lbs. per square foot

Texture & Finish

Hardie® Plank lap siding comes in a variety of textures and finishes. The product is available in smooth or wood grain texture. Additional textures are available on a regional basis. Finish options are primed for field paint, or factory finished with ColorPlus® Technology. Color availability varies by region.

Engineered for Climate®

Hardie® Plank lap siding is engineered for performance to specific weather conditions by climate zones as identified by the following map.



Performance Properties

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	± 0.04 in	
			Squareness	Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft	
			Edge Straightness	≤ 1/32 in/ft of length	
	Density, lb/ft³	ASTM C1185		As reported	83
	Water Absorption, % by mass	ASTM C1185		As reported	36
Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass	
Flexural Strength	ASTM C1185	Wet conditioned, psi	>1015 psi	Pass	
		Equilibrium conditioned, psi	>1450 psi		
THERMAL	Thermal Conductivity	ASTM C177	(BTU/(hr·ft²F))/inch	As reported	2.07
	Actual Thermal Conductivity		(K _{eff})		6.62
	Thermal Resistance		R=1/ K _{eff}		0.48
	Actual Thermal Resistance		(R)		0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
			Mass Loss, %	≤ 3.0%	
			Freeze/Thaw, % strength retention	≥ 80%	
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class		A
			Uniform Building Code Class	As reported	1
	International Building Code® class		A		
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1	

Note 1: listed on Warnock Hersey and ESR 2290

Installation

Install Hardie® Plank lap siding in accordance with:

- Hardie® Plank lap siding installation instructions
- ICC-ES ESR 2290
- Requirements of authorities having jurisdiction

Warranty

Hardie® Plank lap siding: 30-year, Non-Prorated, Limited Warranty
ColorPlus® Technology: 15-year Limited Finish Warranty

Sustainable Design Contribution

- Regionally sourced content- varies by project location
- Avoidance of certain chemicals or Red List Compliance

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical Services.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services online at JamesHardie.com, or by phone at (800)426-4051

IMPORTANT: Failure to install and finish this product in accordance with applicable building codes and James Hardie written application instructions may affect system performance, violate local building codes, void the product-only warranty and lead to personal injury. **DESIGN ADVICE:** Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project eg. builder, architect or engineer. James Hardie will not be responsible in connection with any such information or assistance.

GAF Timberline**HDZ**[®]
High Definition[®] Lifetime Shingles



America's #1-selling shingle just got better — again

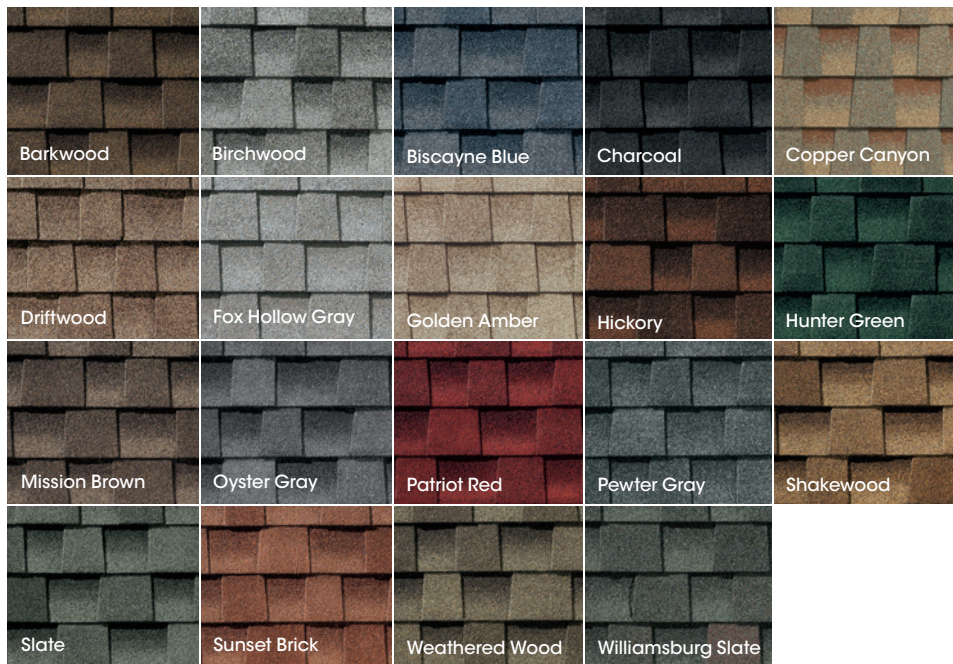
With GAF time-release algae-fighting technology and LayerLock[®] technology, Timberline HDZ[®] offers everything you can expect from an architectural shingle roof, and more.



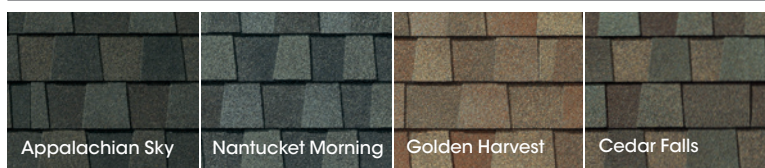
Benefits:

- **LayerLock® technology** — mechanically fuses the common bond between overlapping shingle layers
- **Up to 99.9% nailing accuracy** — the StrikeZone® nailing area is so easy to hit that a roofer placed 999 out of 1,000 nails correctly in our test¹
- **WindProven™ Limited Wind Warranty** — when installed with the required combination of GAF accessories, Timberline HDZ® shingles are eligible for a wind warranty with no maximum wind speed limitation²
- **Dura Grip™ sealant** pairs with the microgranule surface of the StrikeZone® nailing area, and an asphalt-to-asphalt monolithic bond cures for durability, strength, and exceptional wind-uplift performance
- **25-year StainGuard Plus™ Algae Protection Limited Warranty** against blue-green algae discoloration.³ Proprietary GAF time-release algae-fighting technology helps protect your shingles from unsightly stains.
- **For the best look** — use TimberTex® premium ridge cap shingles or TimberCrest® premium SBS-modified ridge cap shingles

Colors:



Harvest Blend Colors⁵



Product details:

Product/System Specifics

- Fiberglass asphalt construction
- **Dimensions (approx.):** 13 1/4" x 39 3/8" (337 mm x 1,000 mm)
- **Exposure:** 5 5/8" (143 mm)
- **Bundles/Square:** 3
- **Pieces/Square:** 64
- **StainGuard Plus™ Algae Protection Limited Warranty³**
- **Hip/Ridge:** TimberTex®; TimberCrest®; Seal-A-Ridge®; Z®Ridge; Ridglass®⁴
- **Starter:** Pro-Start®; QuickStart®; WeatherBlocker™

Applicable Standards & Protocols:

- Passes UL 2218 Impact-Resistance Test with Class 3 rating
- UL Listed to ANSI/UL 790 Class A
- State of Florida Approved
- Classified by UL in accordance with ICC-ES AC438
- Meets ASTM D7158, Class H
- Meets ASTM D3161, Class F
- Meets ASTM D3018 Type 1
- Meets ASTM D3462⁵
- Miami-Dade County Product Control Approved
- ICC-ES Evaluation Reports ESR-1475 and ESR-3267
- Meets Texas Department of Insurance Requirements
- Rated by the CRRC: Can be used to comply with Title 24 Cool Roof Requirements (some colors)

¹ Lifetime refers to the length of warranty coverage provided and means as long as the original individual owner(s) of a single-family detached residence [or eligible second owner(s)] owns the property where the qualifying GAF products are installed. For other owners/structures, Lifetime coverage is not applicable. Lifetime coverage on shingles requires the use of GAF Lifetime shingles only. See the *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. Lifetime coverage on shingles and accessories requires the use of any GAF Lifetime shingle and at least 3 qualifying GAF accessories. See the *GAF Roofing System Limited Warranty* for complete coverage and restrictions. For installations not eligible for the *GAF Roofing System Limited Warranty*, see the *GAF Shingle & Accessory Limited Warranty*. Visit gaf.com/LRS for qualifying GAF products.

² Results based on study conducted by Home Innovation Research Labs, an independent research lab, comparing installation of Timberline HDZ® Shingles to Timberline HDZ® Shingles on a 16-square roof deck using standard 4-nail nailing pattern under controlled laboratory conditions. Actual results may vary.

³ 25-year WindProven® Limited Wind Warranty on GAF shingles with LayerLock® technology requires the use of GAF starter strips, roof deck protection, ridge cap shingles, and leak barrier or attic ventilation. See *GAF Roofing System Limited Warranty* for complete coverage and restrictions. Visit gaf.com/LRS for qualifying GAF products. For installations not eligible for the *GAF WindProven™ Limited Warranty*, see the *GAF Shingle & Accessory Limited Warranty*.

⁴ 25-year StainGuard Plus™ Algae Protection Limited Warranty against blue-green algae discoloration is available only on products sold in packages bearing the StainGuard Plus™ logo. See *GAF Shingle & Accessory Limited Warranty* for complete coverage and restrictions and qualifying products.

⁵ Harvest Blend colors are only available on TimberTex® Ridge Cap Shingles, Seal-A-Ridge® Ridge Cap Shingles, and TimberCrest® Premium SBS-Modified Ridge Cap Shingles.

⁶ Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 at time of manufacture.



Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

We protect what matters most™



Tru-Advantages

Aimed at growing sales in moisture-prone areas.

- New composite edge stiles work together with composite top and bottom rails and durable fiberglass door skins for extra protection from water absorption, rot, mold and wood-ingesting insects on all six sides of the door.

- 1 Composite Edge Top Rail
- 2 Composite Edge Left Stile
- 3 Composite Edge Right Stile
- 4 Fiberglass Door Skin Front
- 5 Fiberglass Door Skin Back
- 6 Composite Bottom Rail

Designed to complement Fiber-Classic[®], Smooth-Star[®] and Pulse[®] fiberglass doors for broad appeal.

- Matches wood-grained and smooth door skins for a uniform look around the edges of the door.
- Available in 6'6", 6'8", 7'0" and 8'0" heights to fit more openings.
- Available for WBDR- and HVHZ-rated Fiber-Classic[®] and Smooth-Star[®] doors that are tested to meet coastal building code requirements.



Available Textures

Fiber-Classic.



Buff Grained Stile
(Shown in Autumn Harvest)

Smooth-Star.



White Smooth Stile

Available Door Collections

Fiber-Classic.
Mahogany & Oak

Smooth-Star.

Pulse.
Fiberglass Only

Protection From the Elements



Resists Moisture & Humidity

Fiberglass doors with completely composite exteriors resist humidity and moisture on all six sides to help eliminate the risk of swelling and cracking.



Resists Mold & Rot

A fully composite door does not absorb or retain moisture helping to eliminate the risk of mold and rot anywhere on the door slab.



Resists Insects

With no exposed wood on the door, Therma-Tru[®] fiberglass doors with completely composite exteriors help protect from wood-ingesting insects.

Composite Edge Stile & Rail Rider for Enhanced Warranty Protection

Therma-Tru[®] doors with composite edge stiles and rails featuring Tru-Guard[™] composite technology are backed by a lifetime limited warranty for peace of mind. In addition, these door slabs have enhanced warranty protection in the event of rotting and / or delamination and provides up to a \$300 labor allowance for residential, commercial and multi-family installations.



WBDR / HVHZ Options*

*Must be installed as part of a Therma-Tru door system in compliance with a Therma-Tru Impact-rated product approval. Not impact tested for use in multi-lite door style configurations.
Note: See your Therma-Tru seller or visit www.thermatru.com for details on available product sizes and options, limited warranties and exclusions, and Rider.

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