Grand Island Residence

4500 E. River Road, Grand Island, NY

Project Number 2021-0034

OWNER: Scott & Lynn Aladeen

96 Ronan Rd

Highwood, IL 60040

ARCHITECT: bba ARCHITECTS, Inc.

1010 South Wabash Chicago, Illinois 60605

(312) 663-0222

ATTN: Gary Beyerl, Monika Hemm

CIVIL ENGINEERS: Tredo Engineers

755 Seneca St., Suite 202

Buffalo, NY 14210 (716) 876-7147

ATTN: Andrew Marino

STRUCTURAL ENGINEERS: Tredo Engineers

755 Seneca St., Suite 202

Buffalo, NY 14210 (716) 876-7147 ATTN: Matthew Etu

GENERAL CONTRACTOR: Hayes Construction Services

656 Genesee St Buffalo, NY 14211 (716) 768-0145

ATTN: Jeff Hayes, Tim Burley

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NEW YORK STATE RESIDENTIAL CODE
NEW YORK STATE FIRE CODE
NEW YORK STATE ENERGY CODE

2020 Edition 2020 Edition 2020 Edition

DRAWING INDEX A0.0 Title Sheet: Partial site grading, drainage, & Utilities Partial site grading, drainage, & Utilities Driveway crossing profile & water service details Site Plan, Zoning Calculations Site Plan Detail Material Specifications, General Notes Basement Level Plan First Floor Plan Second Floor Plan Roof Plan A2.3 Basement Level Plan: Flooring Material First Floor Plan: Flooring Material Second Floor Plan: Flooring Material Window Schedule & Types A4.0-A Window Details Building Elevations **Building Elevations Building Sections Building Sections** Building Assemblies Wall Sections & Details Front Entry Door / Porch Fireplace Section & Details Cast Stone Profiles A6.0-1 Interiors: Trim Profiles and Assemblies A6.0-2 Interiors: Cabinet Profiles & Kitchen Tower Details A6.1-1 Interior Elevations: Kitchen, Dining, & Living Room A6.1-2 Interior Elevations: Kitchen, Dining, & Living Room A6.1-3 Interior Elevations: Kitchen & Island A6.1-4 Interior Elevations: Entry Foyer & Living Room A6.1-5 Interior Elevations: Bar & Laundry A6.1-6 Interior Elevations: Master Bedroom A6.1-7 Interior Elevations: Master Bath & Closet A6.1-8 Interior Elevations: Powder Room A6.2-1 Interior Elevations: Bath 211 & Bath 214 A6.2-2 Interior Elevations: Office & Exercise Room A6.2-3 Interior Elevations: Exercise Room Stair Elevations

Stair Elevations

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ISSUE / DATE

 Pricing Set
 09.30.2022

 VE Pricing Set
 11.28.2022

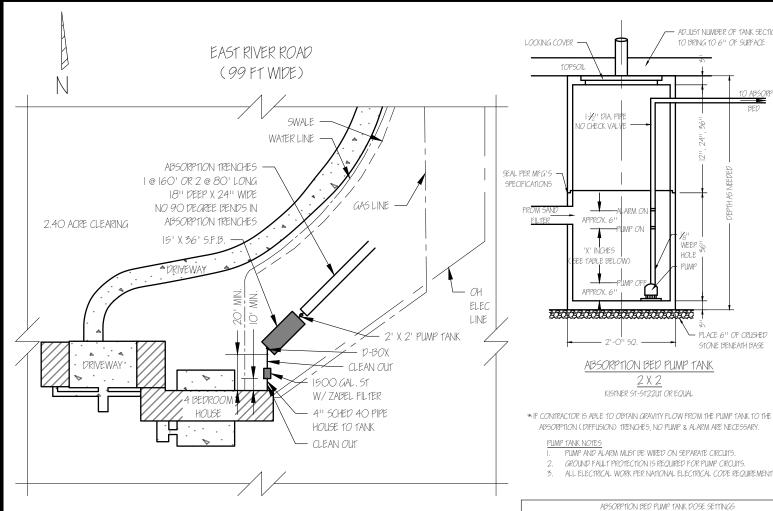
 Contract Set
 02.21.2023

 IFC (Shell) Issue Set
 05.03.2023

 IFC Interiors Issue Set
 05.19.2023

 REV. CCD Elevations
 06.09.2023

Electrical Plan: Second Floor Layout



**ENGINEER NOT RESPONSIBLE FOR ROOT INFILTRATION INTO THE SYSTEM. OWNER AND / OR CONTRACTOR SHALL PROVIDE ADEQUATE BUFFER BETWEEN TREES AND SYSTEM COMPONENTS.

NOTE: PUMP DOSE SETTINGS ARE FOR KISTNER STUBBUT. ADJUST 'X' FOR OTHER TANKS

SAND FILTER DESIGN DATA (PRIVATE RESIDENCE) TABLE 5-OI DOWNSTREAM "MODIFIED" SHALLOW ABSORPTION TRENCH SYSTEM REQUIRED SEPTIC TANK SITE SYMMETRICAL ABOUT CENTERLINE PERMEABLE GEOTEXTILE, UNTREATED BUILDING

	2 BORM HOME	1500	GAL
	3 BORM HOME	1500	GAL
χ	4 BORM HOME	1500	GAL
	5 BORM HOME	1500	GAL
	6 BDRM HOME	2000	GAL

SEPTIC TANK DETAIL

REQUIRED -

ON OHI FT

ADJUST NUMBER OF TANK SECTIONS

- PLACE GU OF CRUSHED

STONE BENEATH BASE

PROX. 'X' (INC

TO BRING TO 6" OF SURFACE

10099011

1-1/2" DIA. P

NO CHECK VAL'

PPROX. E

EE TABLE BEL*O*V

APPROX A

STEM SIZE

3 BEDROOM

4 BEDROOM

5 BEDROOM

ABSORPTION BED PUMP TANK

KISTNER ST-ST22UT OR EQUAL

PLIMP AND ALARM MUST BE WIRED ON SEPARATE CIRCUITS. GROUND FAULT PROTECTION IS REQUIRED FOR PUMP CIRCUITS

ALL ELECTRICAL WORK PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

ABSORPTION BED PLIMP TANK DOSE SETTINGS

BARRIER MATERIAL

8" #2 WASHED STONE -

3" PEA GRAVEL OR EQUAL

8" #2 WASHED STONE

PROPOSED & EXISTING GRADE .

NOTE: DUAL COMPARTMENT TANK REQUIRED; GARBAGE GRINDER CONSIDERED I ADDITIONAL BEDROOM FOR SEPTIC TANK DESIGN.

- 4" 5CH40 PVC

TEE REQUIRED ON INLET

MINIMUM 3" LAYER CLEAN SAND OR PEA

GRAVEL OR 5" AGGREGATE (#2 STONE)

6" MINI LINISATI IPATED PAPER. OR 4" OF STRAW/HAY OVER AGGREGATE LISE ABLE SOIL PERCOLATION RATE 1 - 60 MIN/INCH = 6" MIN, TOPSO L 12" MIN

USEABLE FILL MATERIAL (SEE NOTE I) -BEDROCK OR SEASONAL HIGH GROUND WATER

3/11 TO LIZIT WASHED AGGREGATE

- SUPFICIENT SOIL SIMILAR TO THE INSITU PERMEABLE SOIL SHALL BE PROVIDED TO ASSURE A TRENCH DEPTH OF AT LEAST 18 INCHES WITH A MINIMUM OF ONE (1) FOOT DEPTH OF AGAREGATE FILLED SIDEWALL CONTACTING PERMEABLE SOIL AND AT LEAST 6 INCHES OF AGAREGATE FILLED SIDEWALL IN THE PERMEABLE INSTITUSOIL.
- TRENCHES SHALL BE LOCATED AT LEAST 20 FEET FROM DRAINAGE DITCHES.
- TRENCHES SHALL BE AS LONG AS POSSIBLE TO MINIMIZE PARALLEL TRENCHES
- DISTRIBUTER LENGTH SHALL NOT EXCEED 60 FEET FOR GRAVITY FLOW AND 100 FEET FOR PRESSURE DISTRIBUTION.
- NO NINETY (90) DEGREE BENDS ALLOWED IN ABSORPTION TRENCHES.

HYDRAULIC PROFILE	PROPOSED	EXISTING
GROUND SURFACE AT HOUSE	100.00'	
INLET TO SEPTIC TANK	97.87'	
OLITLET TO SEPTIC TANK	97.62'	
INLET TO SAND FILTER D-BOX	97.48'	
OLITLET TO SAND FILTER D-BOX	97.31'	
OLITLET FROM SAND FILTER	94.23'	
INLET TO PUMP TANK	94.06'	
GROUND SURFACE AT PUMP TANK	99.50'	
INLET TO ABSORBTION TRENCH	98.50'	
CONTRACTOR TO VERIFY ALL SLOPES,	GRADES, ELEVATION	VS, LITILITIES
PROPERTY LINES AND CONDITIONS PR	OP TO BEGINNING	WORK

THE TAC III SYSTEM BY WATER GUARD (OR EQUAL) WILL BE PLACED INSIDE THE HOME. AN ALARM BELL WILL BE ATTACHED TO THE CONTROL PANEL AND A FLASHING LIGHT WILL BE PLACED INSIDE THE STRUCTURE AS A SECONDARY ALERT. THIS SYSTEM WILL BE ACTIVATED WHEN FLUIDS INSIDE THE PUMP CHAMBER REACH A PRESET ELEVATION. UPON POWER OUTAGES OR ALARM, THE OWNER WILL STOP THE USE OF THE SYSTEM AND CORRECT THE MALFUNCTION.

LINSATURATED SOIL

A SINGLE PUMP ARRANGEMENT IS PROPOSED FOR THE DISCHARGE TO THE SAND FILTER. ONE ZOELLER 267 SUBMERSIBLE PUMP (OR EQUAL) IS CAPABLE OF DISPLACING 40 GALLONS PER MINUTE TO HEADS OF 16 FEET. THIS UNIT WILL HANDLE SOLIDS UP TO 5/8 INCH AT SINGLE PHASE 115V. THIS UNIT WILL HAVE ITS OWN CHECK VALVE TO INSURE AGAINST REARWARD SURCHARGES

DESIGN INFORMATION & NOTES:

DESIGN 4 BEDROOM HOUSE

SAND FILTER DETAIL

(FIG 6-01)

SAND FILTER SHALL BE 15' WIDE X 36' LONG WITH

5 DISTRIBUTER PIPES & 2 COLLECTOR PIPES

FROM SEPTIC/SIPHON/DOSING TANK

4" SOLID COLLECTION PIPE >

IO FEET

- 6' MIN & 12' MAX.

SAND FILTER TO ALL PROPERTY LINES SAND FILTER TO WATER SERVICE LINES

KISTNER MODEL STI500Z-N OR EQUAL.

TWO COMPARTMENT 1500 GALLON TANK.

VENIT TANK THROUGH HOUSE STACK VENIT.

LOCATE TANK 10 FT MIN. FROM HOUSE.

INLET & OUTLET WATER TIGHT SEALS REQUIRED.

INSTALL EFFLUENT FILTER IN SEPTIC TANK OUTLET.

COVER SEPTIC TANK AND CONVERS WITH 8" OF TOPSOIL.

HOUSE TO SAND FILTER

SAND FILTER TO WEL

FERNCO COUPLING

0_1

0

0

ALL SAND MUST PASS Z'' SIEVE

EFFECTIVE GRAIN SIZE .25 TO I.O MM

UNIFORMITY COEFFICIENT < 4.0

0

POLY LINER

(DISTRIBITION PIPE) 4" DIAMETER PERFORATED PIPE

(COLLECTOR PIPE)

HOLES DOWN, SLOPE 1/6" PER FOOT

4" DIAMETER PERFORATED PIPE,

HOLES DOWN, SLOPE 1/6" PER FOOT

5 TO 10 MIL POLYETHYLENE OR

POLYPROPYLENE LINER REQUIRED

2' X 2' X 7' (APPROX.) PUMP

TANK WITH ZOELLER #267 OR

APPROVED EQUAL & CHECK

FERNCO COUPLING

VALVE & HIGH WATER ALARM

PROVIDE 5 TO 10 MIL

- DESIGN FLOW = 440 GPD
 - CONFORM WITH ALL REQUIREMENTS OF THE LOCAL COUNTY HEALTH DEPARTMENT, NYS HEALTH DEPARTMENT, BUILDING CODES
- DESIGN APPLICATION PATE FOR SAND FILTER = 1 O GPD / SET
- DESIGN APPLICATION PATE FOR ABSORPTION TRENCH = 11 GPD / SET

- ALL SAND, WHICH IS USED IN THE FILTER, MUST BE CLEAN AND COARSE, ALL PASSING A 🔏 ' SIEVE. THE EFFECTIVE GRAIN SIZE SHALL BE BETWEEN 0.25 AND I.O MM. WITH A UNIFORMITY COEFFICIENT OF 4.0 OR LESS.
- GRAVEL MEDIA SHALL BE PLACED UNDER AND OVER THE SAND FILTERING MATERIAL AS SHOWN ON THE ATTACHED DETAILS. THE GROUND BENEATH 1HE FILTER MUST BE SLOPED TO THE TRENCHES IN WHICH THE UNDERDRAINS ARE LAID.

 AUTOMATIC SIPHON DOSING TANK SHALL BE USED TO PROVIDE DOSING OF THE FILTER BED IF THE FILTER CONTAINS 300 LINEAL GROUND BENEATH THE FILTER MUST BE SLOPED TO THE TRENCHES IN WHICH THE UNDERDRAINS ARE LAID.
- FEET OF LATERALS OR 1,800 FT. SQUARE OF FILTER AREA.
- ALL WASTEWATER FROM THE RESIDENCE MUST BE DIRECTED TO THE SEPTIC TANK.
- ONLY WASTEWATER, AND NO GROUND WATER, STORM WATER, COOLING WATER, SURFACE WATER FROM FOUNDATIONS, ROOFS, STREETS, OR WASTEWATER FROM WATER SOFTENING UNITS, SHALL BE DIRECTED TO THE SAND FILTER SYSTEM.
- THE SAND FILTER SHALL BE LOCATED A MINIMUM OF 20' FROM THE RESIDENCE, 10' FROM ALL PROPERTY LINES, DITCHES, AND PUBLIC WATER MAINS (INCLUDING HOUSE SERVICE), AND IOO' FROM THE NEAREST WELL WATER SUPPLY. THE SEPTIC TANK SHALL BE LOCATED A MINIMUM OF 10' FROM THE RESIDENCE AND 50' FROM THE NEAREST WELL WATER SUPPLY.
- SEPTIC TANK AND DISTRIBUTION BOX SHALL BE STAKED AS TO LOCATION FOR MAINTENANCE ACCESS.
- THE SAND FILTER SHALL BE THOROUGHLY SETTLED BY FLOODING OR OTHER ACCEPTABLE METHODS BEFORE THE DISTRIBUTOR PIPING IS PLACED AT FINAL GRADE, BACKFILLING SHALL BE DONE CAREFULLY AND THE USE OF HEAVY MACHINERY AVOIDED.
- THE USE OF A 5.0 10.0 MIL. COMMON POLYPROPYLENE OR POLYETHYLENE LINER WITH FERNCO COUPLINGS IS REQUIRED. CURTAIN DRAINS SHALL ALSO BE PROVIDED ON OPPOSITE SIDES OF THE FILTER LENGTH TO PREVENT FLOODING OF THE FILTER.
- IF INSUFFICIENT ELEVATION EXISTS TO GRAVITY DISCHARGE THE EFFLUENT FROM THE SAND FILTER BED, A PLIMP SHALL BE USED. SAND FILTER DISCHARGE TO AREA WATERCOURSE MUST BE ADEQUATELY PROTECTED FROM EROSION AND MUST BE ABOVE HIGH WATER LEVEL OF THE WATERCOURSE.
- SAND FILTER SYSTEM MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS, DETAILS, AND NOTES PROVIDED.
- THE SYSTEM MUST BE INSPECTED BY THE DEPARTMENT DURING CONSTRUCTION AND PRIOR TO FINAL COVERING. FINAL GRADE OVER SAND FILTER AREA IS TO BE SLOPED TO DRAIN AND IS TO BE SEEDED TO GRASS.
- PROTECTION OF UTILITIES 14.
 - ALL UTILITIES (INCLUDING CABLE TV. TELEPHONE, ELECTRIC, NATURAL GAS, PRINKING WATER, SANITARY AND STORM SEWERS, ETC.) WHOSE FACILITIES MAY BE AFFECTED BY THE WORK OF THE CONTRACT SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 72 HOURS IN ADVANCE OF THE START OF ANY OPERATIONS WHICH MIGHT AFFECT SUCH FACILITIES. THE REMOVAL, REPLACEMENT, SUPPORT, OR OTHER HANDLING OF PRIVATE AND PUBLIC UTILITIES COMING WITHIN THE LINES OF THIS WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT HIS EXPENSE IN ACCORDANCE WITH ARRANGEMENTS SATISFACTORY TO THE OWNER OR OPERATOR OF THE LITLITY INVOLVED. THE CONTRACTOR, AT HIS EXPENSE, SHALL REMOVE, REPLACE, OR SUPPORT ALL UTILITIES AS REQUIRED.

MAINTENANCE OF SEPTIC SYSTEM:

- THE SEPTIC TANK SHOULD BE PUMPED OUT AND THE ZABEL FILTER CLEANED A MINIMUM OF EVERY 24 MONTHS.
- REPAIR THE PUMP WITHIN 24 HRS. IN THE EVENT THE ALARM IN THE PUMP CHAMBER GOES ON
- THE FOLLOWING ITEMS ARE PROHIBITED FROM THE SEPTIC SYSTEM:
- DIAPERS, SANITARY NAPKINS AND CONDOMS
- 3.l. 3.2. GREASE

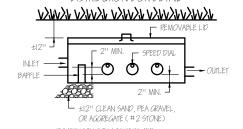
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- 33 GARBAGE DISPOSAL/ GARBAGE GRINDER
- 3.4. CHEMICALS AND PAINTS GREATER THAN HOUSEHOLD USAGES. 3.5. OILS AND GREASES (INCLUDING COOKING GREASE AND FATS)
- 3.6. CLAYS AND SILTS.
- SEPTIC SYSTEM ADDITIVES (MANY OF THESE WILL CLEAN THE TANK BUT DESTROY THE SAND FILTER)
- 3.8. PLASTIC, SCOURING PADS, RUBBER, MOB STRINGS, CHEMICALS, TOWELS, GREASE,
- SOLVENTS, LINT, RAGS, COFFEE GROUNDS, KITTY LITTER, DENTAL FLOSS, PAPER TOWELS AND OTHER NOT-BIODEGRADABLE HEMS.
- WATER SOFTENER BACKWASH.
- TOILET BOWL SANITIZERS AND PLUMBING CLEANERS.
- POWDERED LAUNDRY AND DISHWASHER SOAPS
- ろろ CIGARETTE BUTTS AND GUM.
- ADDITIONAL LIMITATIONS:
 - NO ADDITIONAL OCCUPANCY WITHOUT UPGRADING THE SIZE OF THE SYSTEM AND OBTAINING COUNTY HEALTH DEPARTMENT APPROVAL,
- DISPOSAL OF MORE THAN THE DESIGN FLOW PER DAY.

DO NOT ENTER THE SEPTIC TANK OR PUMP/INSPECTION TANK UNDER ANY CONDITION. LIFE THREATENING GASES, EXPLOSIVE GASES (METHANE) OR OXYGEN DEPLETING CONDITIONS MAY BE PRESENT, ONLY KNOWLEDGEABLE PROPESSIONALS WHO HAVE COMPILIED WITH OSHA CONFINED SPACE TRAINING MAY ENTER IF CONDITIONS ARE PROVEN SAFE, AVOID EXPOSURE TO THE SEWAGE AS POTENTIALLY HARMFUL BACTERIA OR VIRUSES MAY BE PRESENT. KEEP AT LEAST SIX INCHES OF SOIL ON ALL COVERS THAT ARE NOT LOCKED, KEEP ALL COVERS LOCKED, COVERED WITH SOIL OR USE HEAVY MANHOLE COVERS THAT CANNOT BE REMOVED BY CHILDREN. KEEP CHILDREN FROM PLAYING AROUND TANKS, SAND FILTER AND ABSORPTION BED. UNLESS SPECIFICALLY REQUIRED OTHERWISE BY THE COUNTY HEALTH DEPARTMENT, CUT OFF ALL VENTS TO GRADE TO REDUCE THE POSSIBLE TRIPPING

Note: This design is based on the information given and/or provided during design along with the appropriate design standards and practices applicable to the situation, and does not quarantee in anuway the performance of the system due to improper installation and maintenance of the system





DISTRIBUTION BOX (SAND FILTER)

- INSTALL 6 OUTLET DISTRUBUTION BOX
- INSTALL KISTNER MODEL DB-6 OR EQUAL.
- PLACE 12" OF CRUSHED STONE BENEATH BASE.
- PROPERLY INSTALL SPEED LEVELERS TO ENSURE EQUAL FLOW.
- INSTALL CLEANOUT TO SURFACE WITHIN 2 FT OF DISTRIBUTION BOX.
- SEAL PIPE JOINTS WITH ASPHALTIC MATERIAL OR EQUIVALENT OUTLET PIPE ELEVATIONS MUST BE SET EQUAL.
 - BAFFLE RECURED
- SLOPE HEADER PIPES (BETWEEN D-BOX AND LEACH LINES) AT LEAST KOU PER FOOT

CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF SEPTIC INSTALLATION WORK

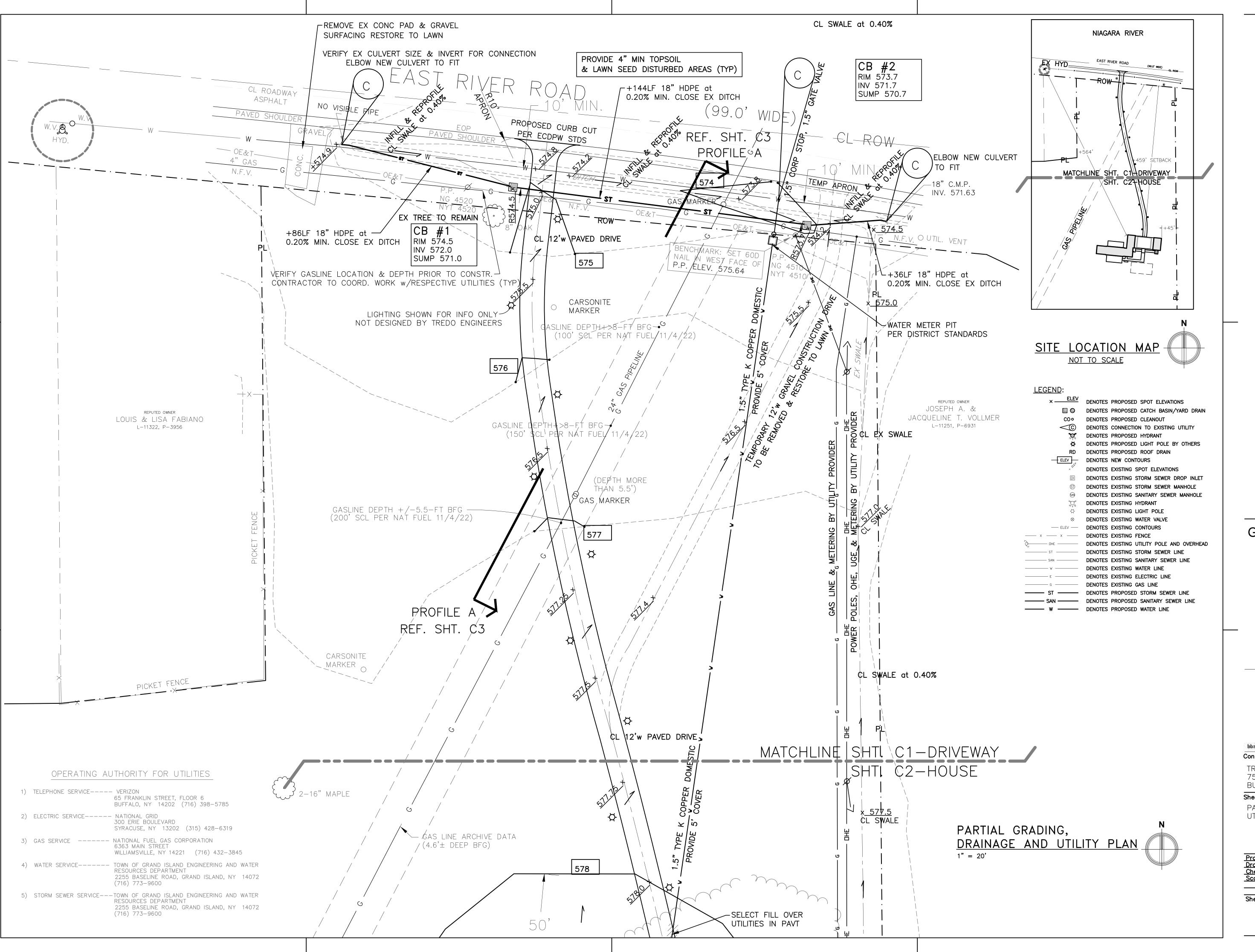
SEWAGE DISPOSAL SYSTEM SITE PLAN FOR: ALADEEN RESIDENCE 4500 EAST RIVER ROAD, GRAND ISLAND, NY 14072

X.	SCALE:	DRWN BY:	DATE:
	AS NOTED	T.M.	11-02-2022
	UNAUTHORIZED ALTER VIOLATION OF SECTION	ATION OF PLAN IS IN 7209, PROVISION 2	SHEET NO. A-I

NEW YORK STATE EDUCATION LAW.

INSTALL CLEANOUT BETWEEN TANK AND D-BOX ZABEL FILTER OR EQUAL IS RECOMMENDED ON THE OUTLET

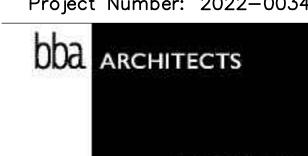
SURFACE AREA 39 SF.





Grand Island Residence Grand Island, NY

Project Number: 2022-0034



1010 SOUTH WABASH

312.663.0222

CHICAGO, ILLINOIS 60605

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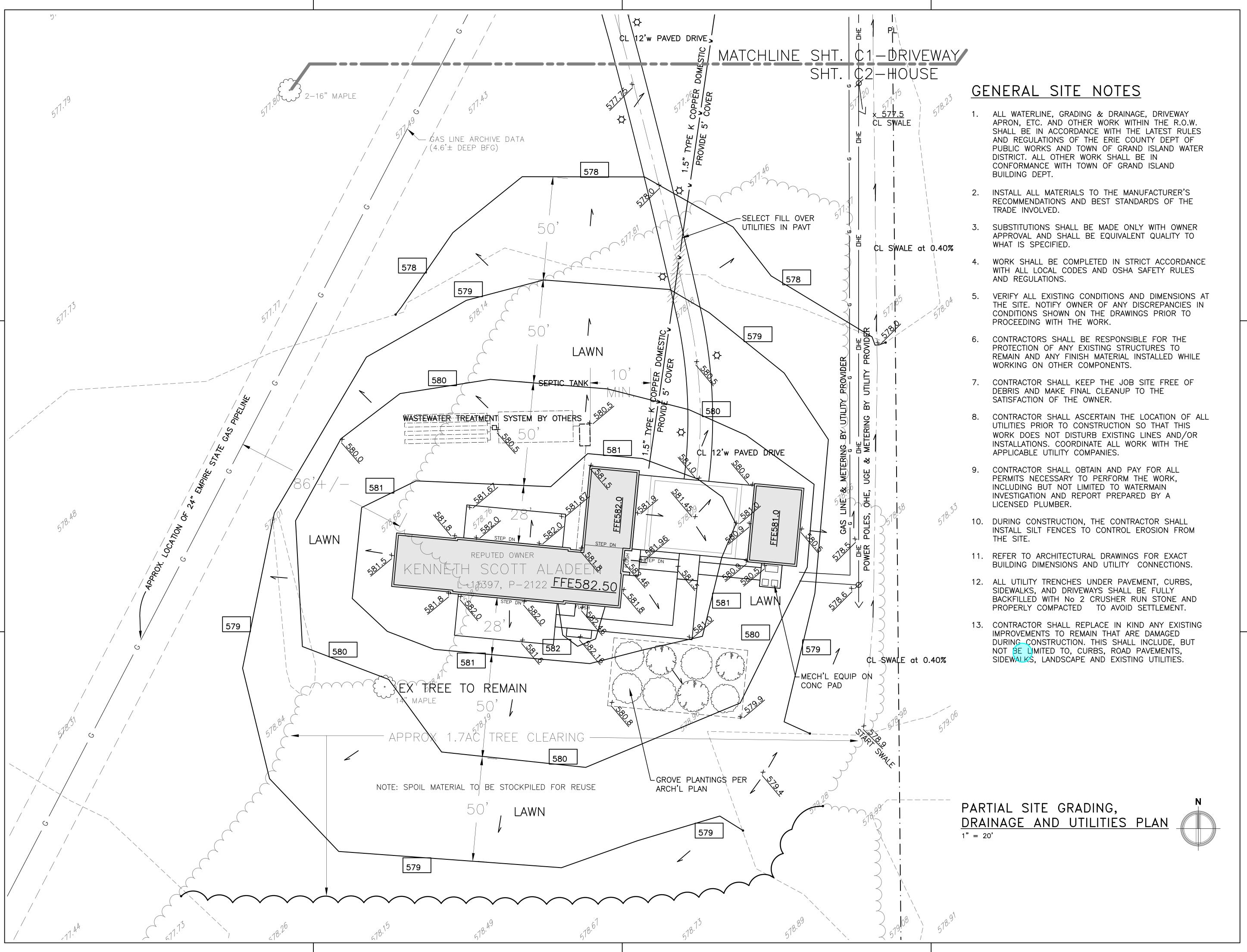
TREDO ENGINEERS 755 SENECA STREET BUFFALO, NY 14210

Sheet Title:

PARTIAL SITE GRADING, DRAINAGE & UTILITIES PLAN

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Grand Island Residence Grand Island, NY

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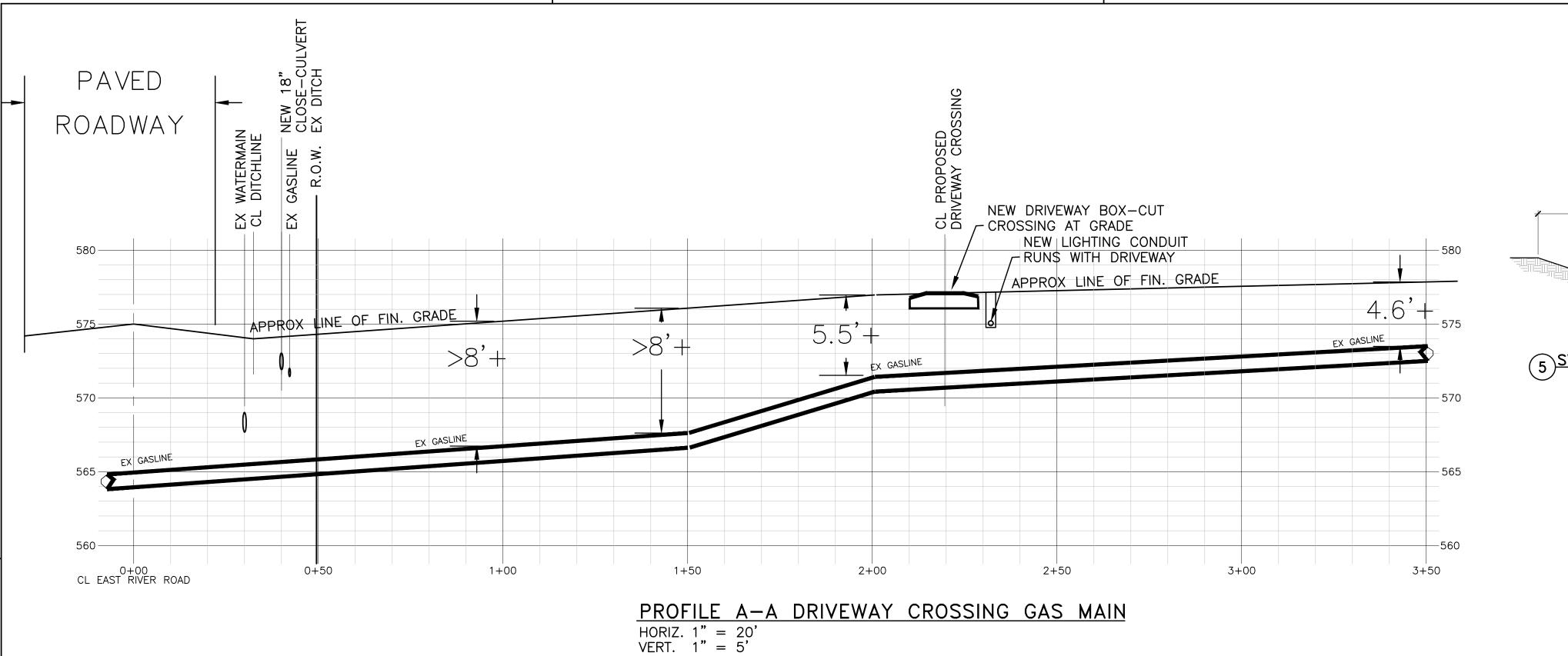
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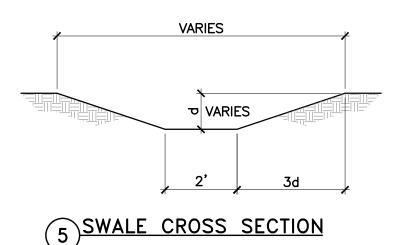
PARTIAL SITE GRADING, DRAINAGE & UTILITIES PLAN

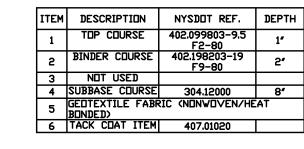
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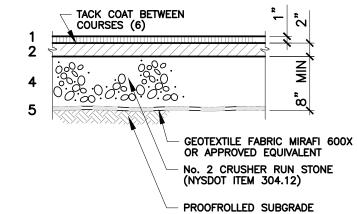
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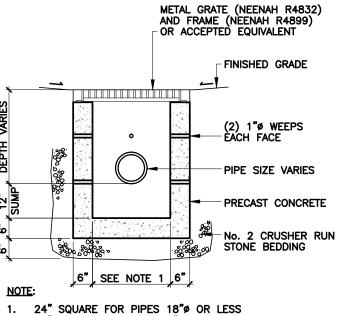






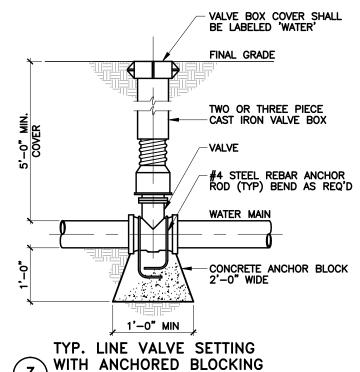


TYPICAL REGULAR-DUTY 1 BITUMINOUS PAVEMENT SECTION GRAVEL SURFACING SECTION SIMILAR

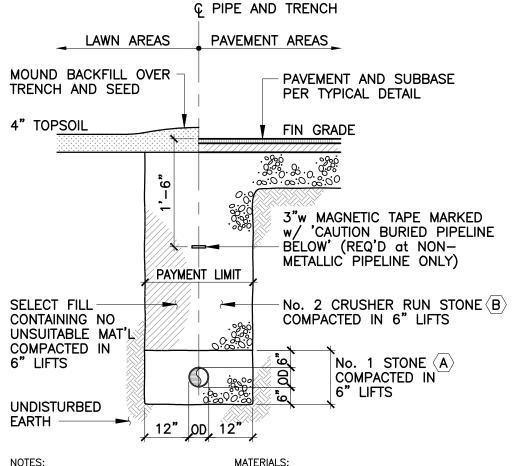


1. 24" SQUARE FOR PIPES 18"Ø OR LESS 30" SQUARE OR PIPES 24"Ø OR GREATER

TYPICAL CATCH BASIN



WITH ANCHORED BLOCKING
NOTE: TO BE USED ON BOTH
GATE AND BUTTERFLY VALVES



1. PIPE SHALL BE IN ACCORDANCE w/ MANUFACTURER'S RECOMMENDATIONS 2. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING 3. TRENCH DETAILS ARE ONLY SHOWN FOR MATERIAL PLACEMENT PURPOSES 4. AN OSHA APPROVED MOVEABLE PROTECTIVE TRENCH SHIELD MAY BE USED.

MATERIALS:

(A) No. 1 STONE WITH A GRADATION CONFORMING TO NYSDOT SECTION 703-02, LATEST EDITION. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN (1) INCH AND HAVING A MAX. GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. NO SLAG SHALL BE USED IN PLACE OF MATERIAL '2' PLACE OF MATERIAL 'A'. B No. 2 CRUSHER RUN STONE OR No. 2 RUN OF

CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 4 AND NYSDOT SECTION 703-02 (COMPACTED IN 6" LIFTS TO 90% DENSITY). NO SLAG SHALL BE USED IN PLACE OF MATERIAL 'B'.

4 UTILITY TRENCH SECTION



Grand Island Residence Grand Island, NY

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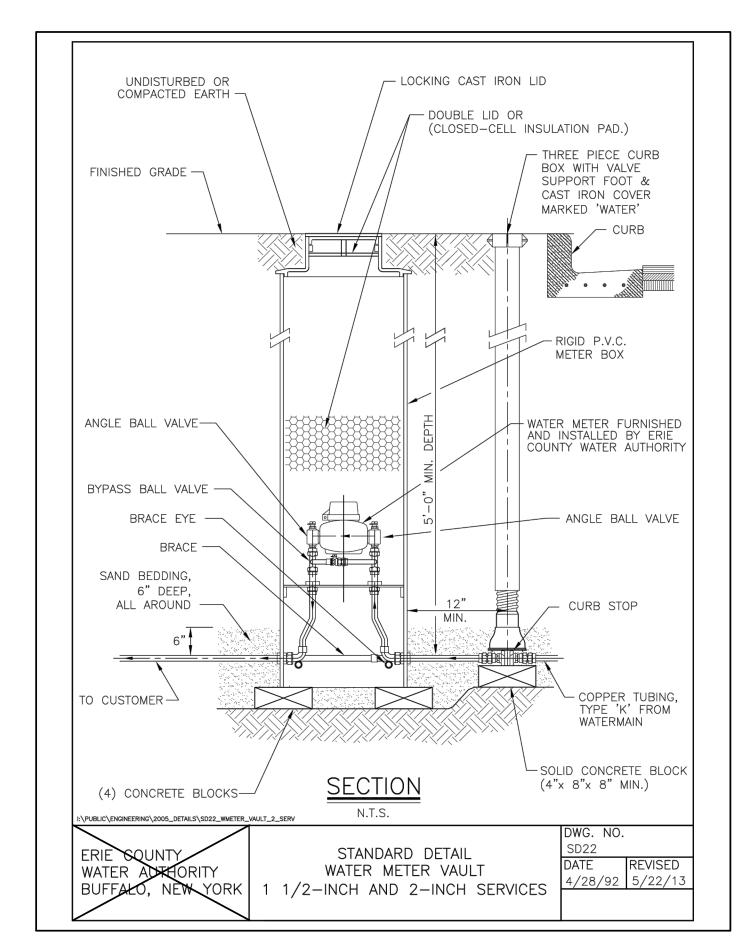
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DRIVEWAY CROSSING PROFILE, WATER SERVICE & SITEWORK DETAILS

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CONTACT GRAND ISLAND WATER DISTRICT FOR ADD'L INFO

GRADING PLAN NOTES:

OF 6" OF SALVAGED TOPSOIL.

- NYS CODE RULE 753 REQUIRES PROFESSIONAL EXCAVATORS TO CONTACT UDIG NY BEFORE DIGGING.

-CONTOURS SHOWN ARE FOR FINISHED SURFACES, ANY ADJUSTMENT TO SUBGRADE IS THE CONTRACTOR'S RESPONSIBILITY.

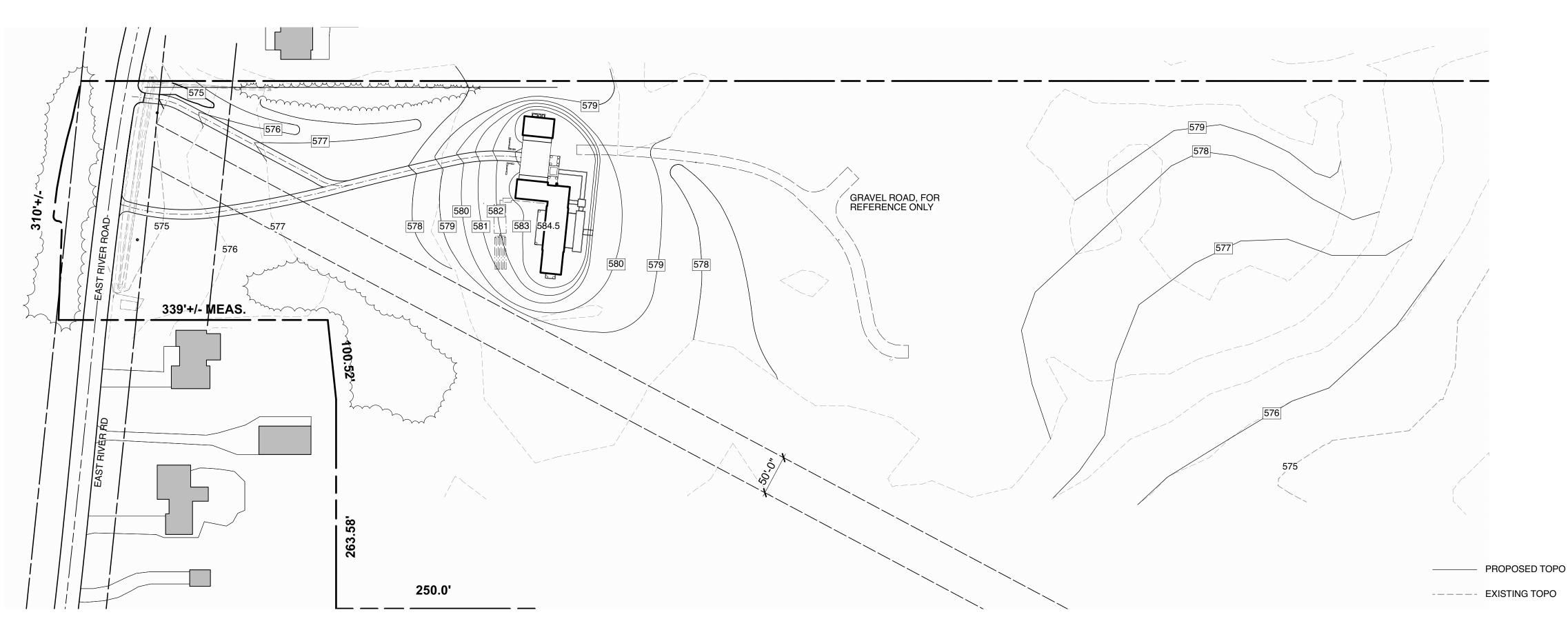
-ALL DISTURBED AREAS THAT ARE UNPAVED ARE TO BE LANDSCAPED OR HAVE LAWN ESTABLISHED.

-ALL LANDSCAPED OR LAWN AREAS SHALL BE COVERED BY A MINIMUM

-SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. HOWEVER, THE CONTRACTOR SHALL NOTIFY THE A/E IF SPOT ELEVATIONS DO NOT APPEAR TO AGREE WITH THE CONTOURS AND SLOPES LABELED. SPOT ELEVATIONS AND SPECIFIC PROFILE INFORMATION SHALL BE USED FOR ESTABLISHING THE ELEVATION OF CURBS, DRIVEWAYS, AND OTHER UTILITIES.

-ALL FINISHED GRADING SHALL PROVIDE FOR A SMOOTH TRANSITION TO UNGRADED AREAS.

-THE EARTHWORK IS ESTIMATED AT 6,500 CY OF FILL AND 6,500 C.Y. OF CUT AND IS PROVIDED OUT OF CONVENIENCE ONLY. THE CONTRACTOR SHALL MAKE HIS OWN MEASUREMENTS AND ADJUSTMENTS FOR ESTABLISHING ANY COST OR TIME REQUIREMENTS FOR THE WORK. THESE FIGURES ARE BASED ON PROPOSED CONTOURS COMPARED TO EXISTING CONTOURS. THE FIGURES DO NOT ACCOUNT FOR THE BASEMENT EXCAVATION, FOUNDATION EXCAVATION, COMPACTION OF THE SUBGRADE BY EARTHWORK EQUIPMENT, VARIATIONS IN REQUIRED COMPACTION LEVELS DUE TO SURFACE REQUIREMENTS, ADJUSTMENTS FOR SUBGRADE ELEVATION, OR THE NECESSITY OF MOVING SOME OF THE SOIL MATERIALS MULTIPLE TIMES DUE TO THE CONTRACTORS MEANS AND METHODS. IT MAY BE NECESSARY TO INCREASE THE SIZE OF THE "BORROW" AREA TO ARCHIVE THE NECESSARY FILL REQUIREMENT.







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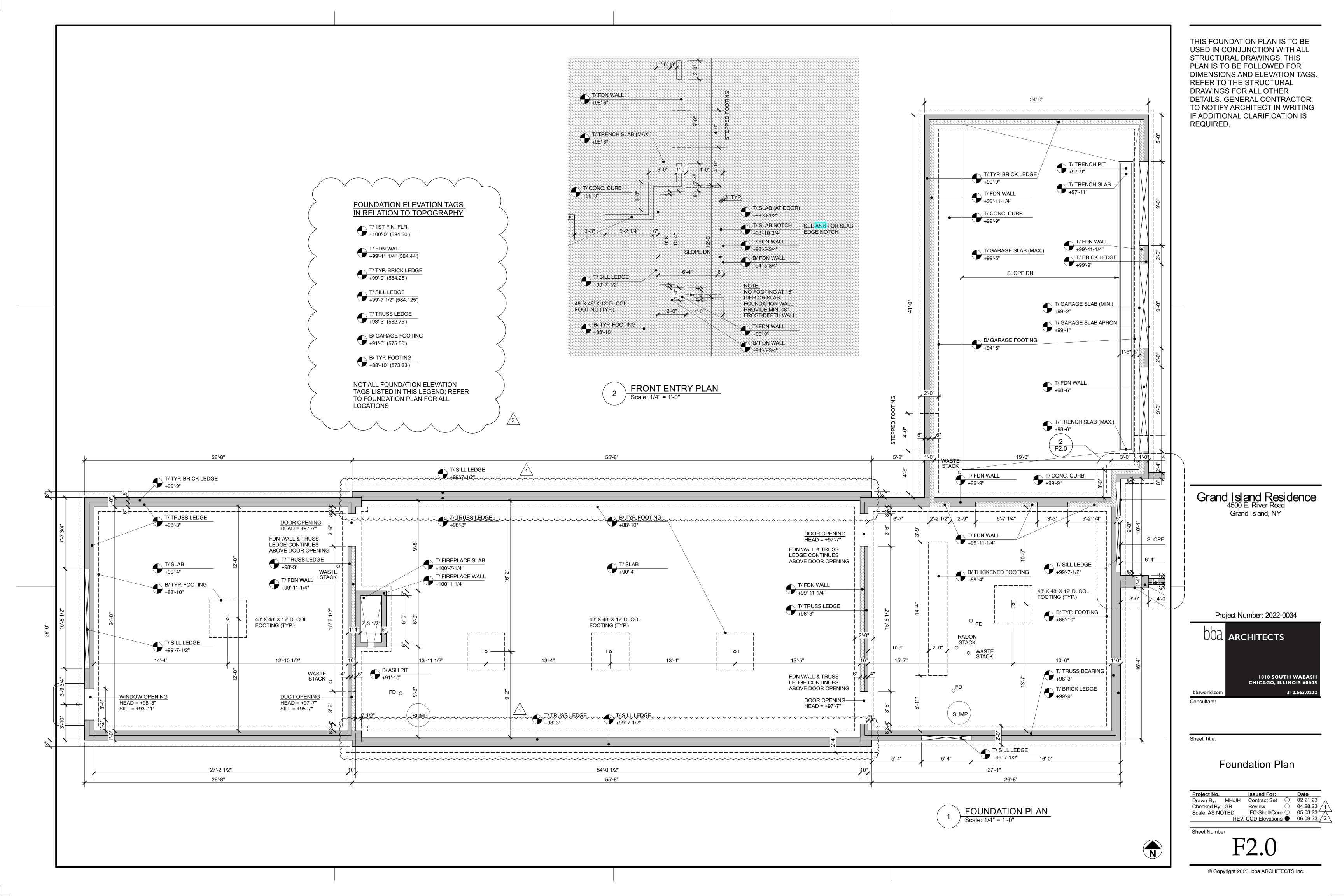


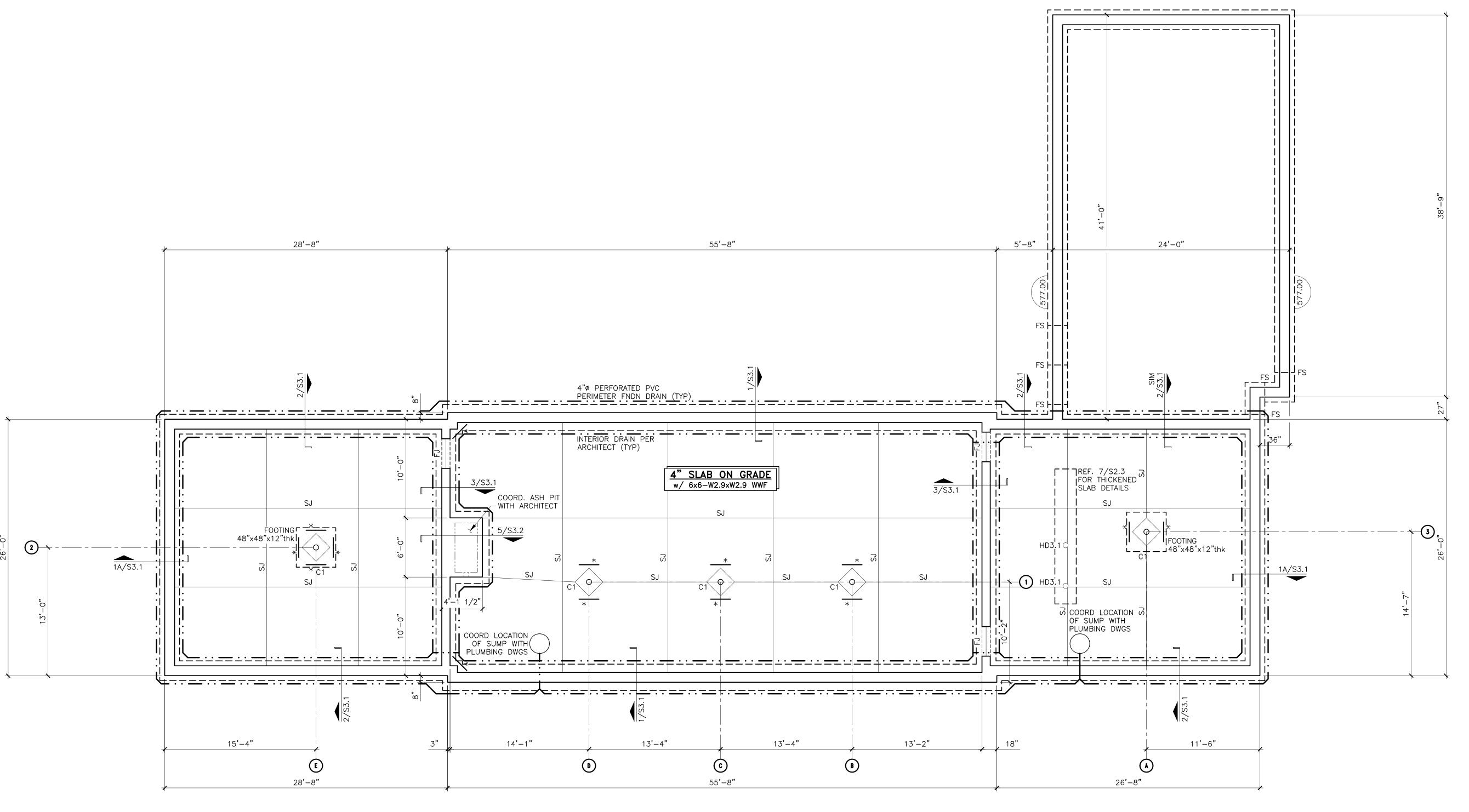
Grading Plan

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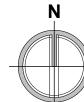
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STEEL POST SCHEDULE						
MARK	SIZE	BASE PLATE	ANC. RODS	REMARKS		
C1	3"ø SCH.40	1"x4"x10"	(2) 1/2"ø TITEN HD			



FOUNDATION/BASEMENT PLAN

- 1. TOP OF FINISHED FLOOR SLAB EL. 572.83' (-9'-8" BELOW FINISHED FIRST FLOOR EL.)
- 2. BOTTOM OF FOOTING EL. 571.33' (-1'-6") UNLESS NOTED THUS:
- 3. FS INDICATES STEPPED WALL FOOTING AS
- PER TYPICAL DETAIL
- 4. SJ AND FJ INDICATE SLAB CONTROL JOINTS AS PER TYPICAL DETAILS
- 5. HD MINDICATES APPROXIMATE LOCATION OF SIMPSON ATS HOLD DOWN AND ANCHORAGE: REF. SHEAR WALL ANCHORAGE SCHEDULE AND TYPICAL DETAILS
- PROVIDE SIMPSON PAB-18 at HD3.1 LOCATIONS 6. * INDICATES ADDITIONAL SLAB REINFORCING #4 x 24"lg at TOP OF SLAB
- 7. COORDINATE UNDERSLAB PLUMBING AND RADON MITIGATION (BY OTHERS) WITH MEP DRAWINGS

Grand Island Residence E. River Road Grand Island, NY

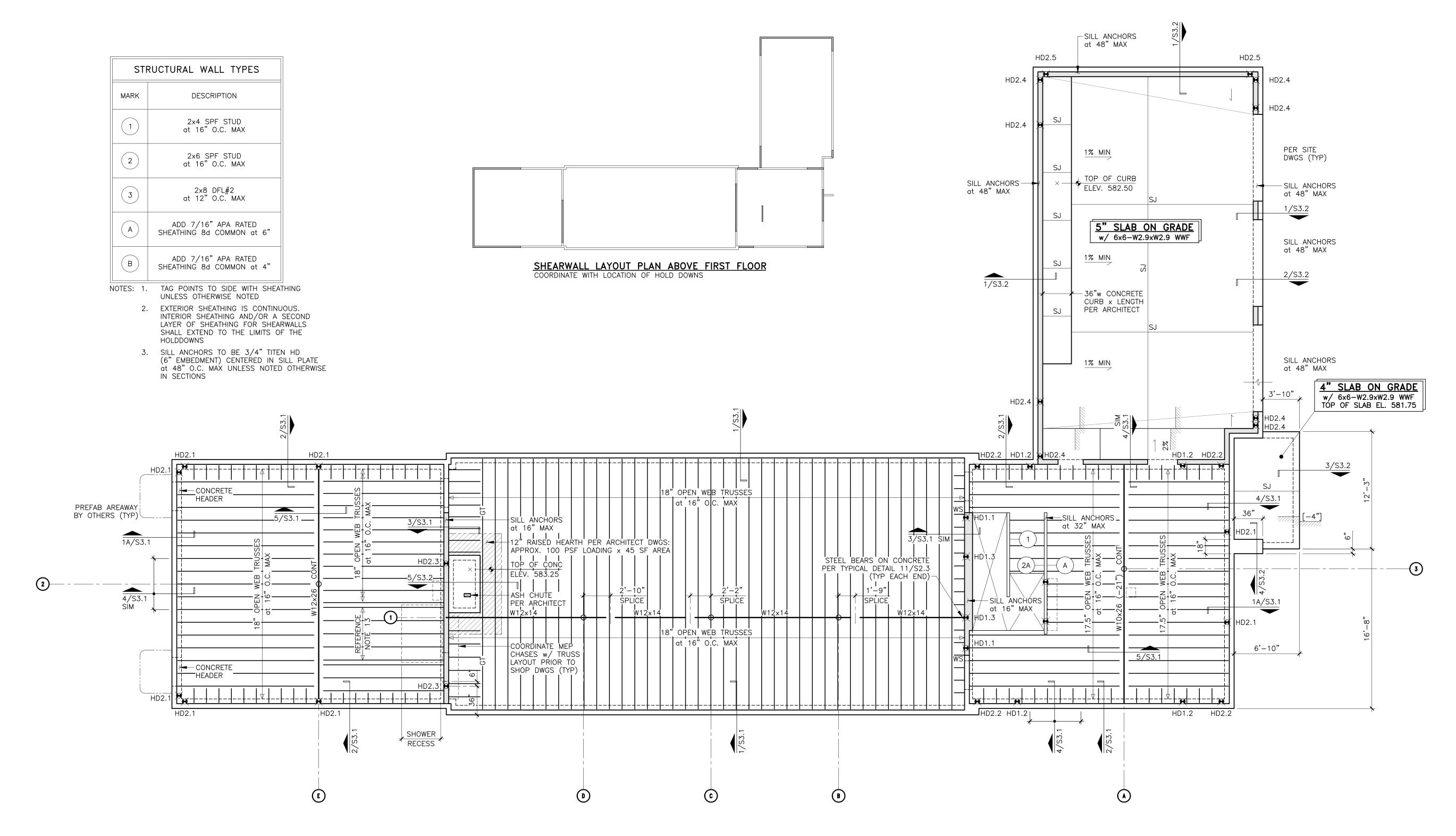


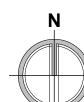


Foundation / Basement Plan

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FIRST FLOOR FRAMING PLAN

- 1. TOP OF FINISHED FLOOR EL. 582.50' UON [+ OR -] FROM EL. 582.50'
- 2. TOP OF SLAB at GARAGE EL. VARIES PER PLAN
- 3. SJ INDICATES SAWCUT SLAB CONTROL JOINT AS PER TYPICAL DETAIL
- 4. INDICATES TOP OF WALL EL. 582.50'
- 5. TOP OF PERIMETER BRICK LEDGE AND INTERIOR CONCRETE FOUNDATIONS EL. 582.25' (-3") UON
- 6. BOTTOM OF FOOTING at GARAGE EL. 577.00'
- 7. TOP OF STEEL BEAMS EL. 580.87' $(-19 \ 1/2" \text{ FROM FIN. FLOOR EL. } 582.50')$
- 8. FLOOR TRUSS BEARING EL. 580.87' (-19 1/2")
- 9. H3 INDICATES STUDWALL BEARING HEADER
 PER SCHEDULE ON DRAWING S1.2
- 10. HD 💓 INDICATES APPROXIMATE LOCATION OF SIMPSON ATS HOLD DOWN AND ANCHORAGE: REF. SHEAR WALL
- ANCHORAGE SCHEDULE AND TYPICAL DETAILS 11. — INDICATES WALL TYPE PER SCHEDULE
- 12. —GT INDICATES WALL TYPE PER SCHEDULE
- 13. COORDINATE UNDERSLAB PLUMBING AND RADON MITIGATION (BY OTHERS) WITH MEP DRAWINGS

Grand Island Residence E. River Road Grand Island, NY

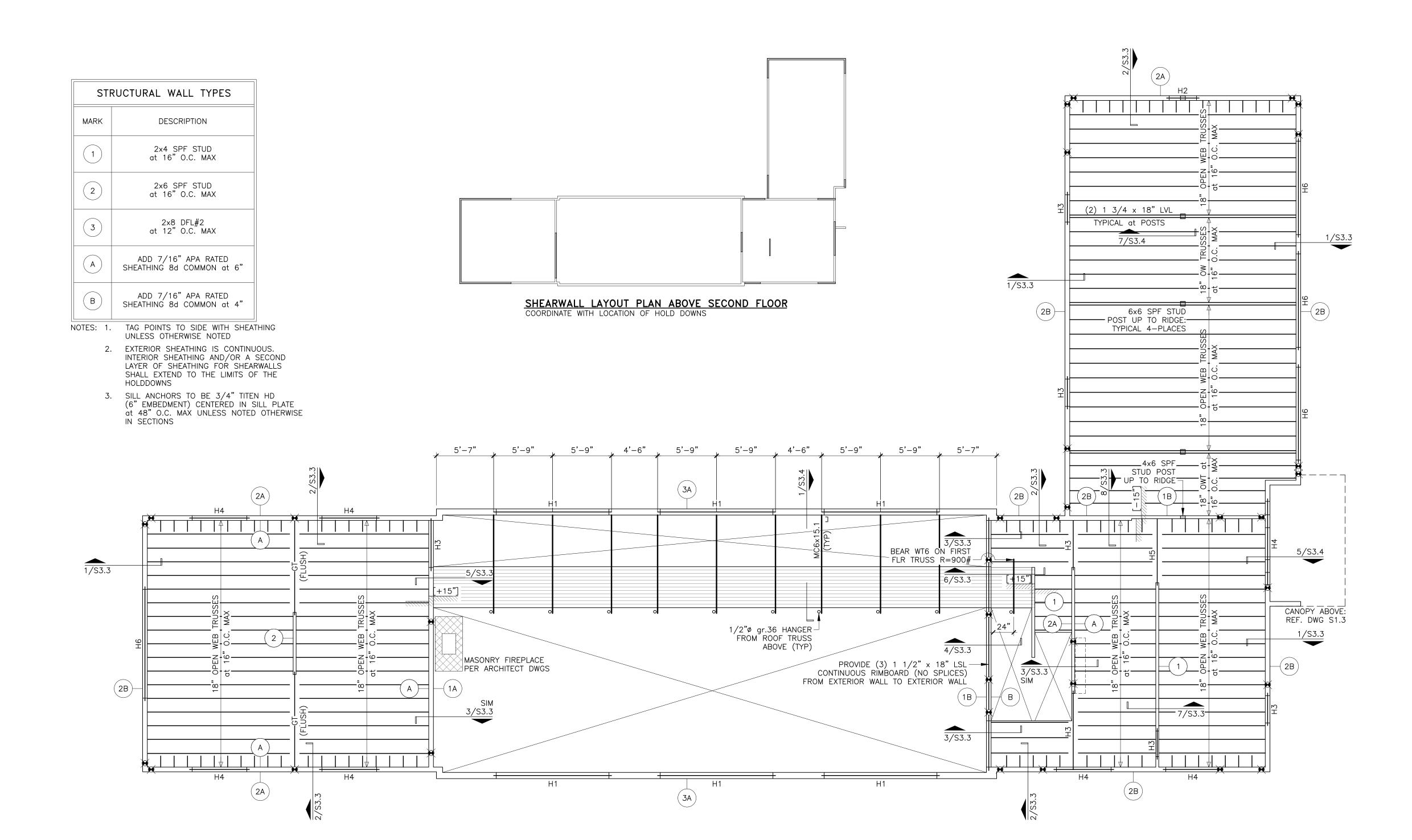


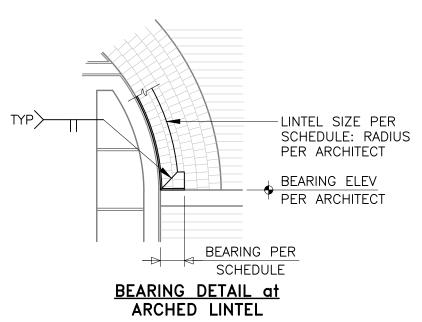


First Floor Framing Plan

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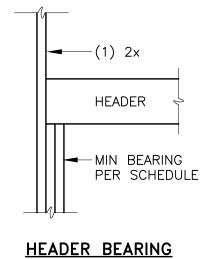




EXTERIOR MASONRY LINTEL SCHEDULE

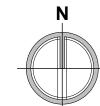
THIS SCHEDULE PERTAINS TO ALL OPENINGS AND RECESSES IN NON-LOAD BEARING MASONRY WALLS. COORDINATE LOCATION AND SIZE OF OPENINGS WITH ARCHITECTURAL AND/OR MECHANICAL DRAWINGS

BRICK THICKNESS	LINTEL SIZE	MAX. OPNG. WIDTH	BEARIN EA. EN
4-INCH	L4x3 1/2x5/16 LLV	6'-4"	6"
4-INCH	BENT PL 7x5x5/16 LLV	11'-0"	8"



ST	UDWALL BEARING HEA	DER SCHEDULE
MARK	SIZE	MINIMUM BEARING EACH END
H1	(4) 1 3/4 x 11 1/4 LVL	(2) 2x at BEARING PLUS (2) 2x JAMB STUDS
H2	(3) 2×6 DFL#2	(1) 2x
Н3	(2) 2×10 DFL #2	(1) 2x
H4	(3) 1 3/4 x 7 1/4 LVL	(1) 2x
Н5	(2) 1 3/4 x 7 1/4 LVL	(1) 2x
Н6	(3) 1 3/4 x 9 1/4 LVL	(1) 2x

- 1. ALL HEADERS TO HAVE A MINIMUM BEARING AS SHOWN
- 2. COORDINATE OPENING SIZE AND LOCATION WITH ARCHITECTURAL DRAWINGS
- 3. SEE ARCH DRAWINGS FOR NON-LOAD BEARING



SECOND FLOOR FRAMING PLAN

1. TOP OF FINISHED FLOOR EL. 593.75' (+11'-3" A.F.F.)

UON [+ OR -] FROM EL. 593.75'

- 2. FLOOR TRUSS BEARING at MAIN HOUSE EL. 592.12' (+9'-7 1/2" A.F.F.) TRUSS BEARING at GARAGE EL. 590.87' (+8'-4 1/2 A.F.F. HOUSE)
- 3. INDICATES AREA OF 2" T&G FLOOR DECKING (1.7E, Fb > 600 PSI) CONTROLLED RANDOM
- LAYOUT PATTERN. TOP OF FLOOR EL. AS NOTED 4. MINDICATES APPROXIMATE LOCATION OF SIMPSON ATS
- HOLD DOWN AND ANCHORAGE: REF. SHEAR WALL ANCHORAGE SCHEDULE AND TYPICAL DETAILS
- 5. INDICATES WALL TYPE PER SCHEDULE



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Project Number: 2022-0034

DDd ARCHITECTS

Grand Island Residence

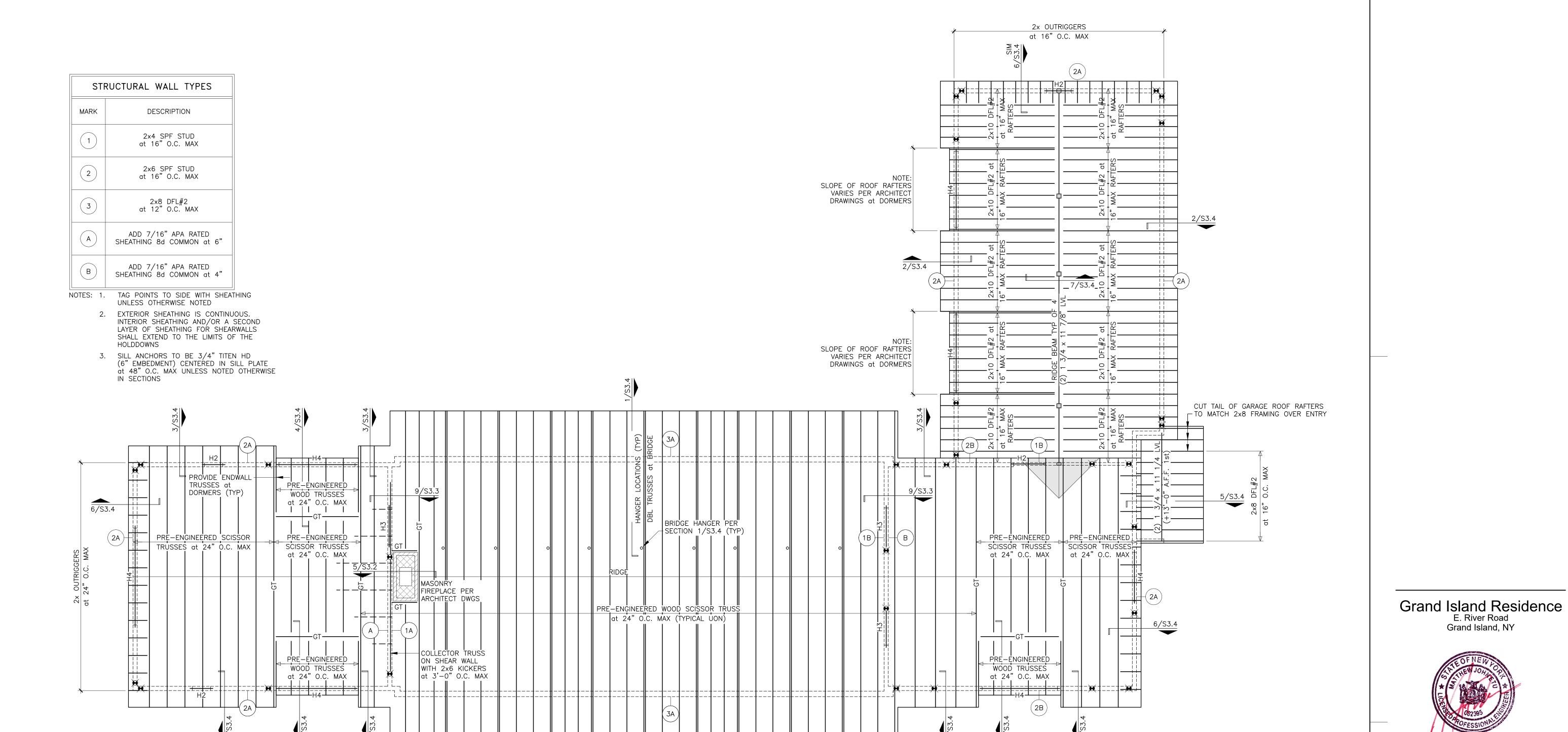
E. River Road Grand Island, NY

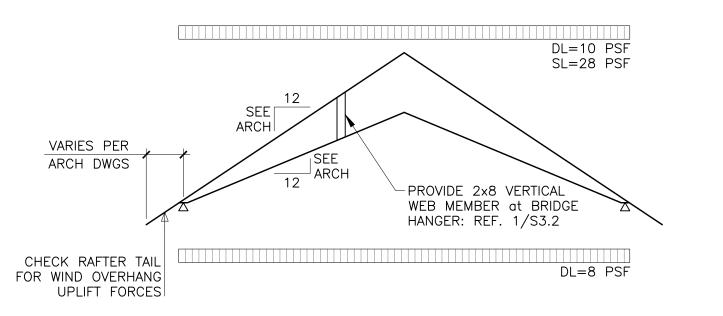
Second Floor Framing Plan

T.E. Project No. 22-27 Buffalo, New York 14210 716.876.7147 ph

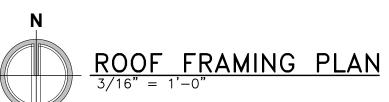
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- 1. TRUSS BEARING EL. at MAIN HOUSE EL. 600.52' (+18'-0 1/4" A.F.F. FIRST FLOOR)
- 2. JOIST BEARING EL. at GARAGE EL. 595.94'
- (+13'-5 1/4" A.F.F. FIRST FLOOR MAIN HOUSE)
- 3. MINDICATES APPROXIMATE LOCATION OF SIMPSON ATS HOLD DOWN AND ANCHORAGE: REF. SHEAR WALL ANCHORAGE SCHEDULE AND TYPICAL DETAILS
- 4. INDICATES WALL TYPE PER SCHEDULE
- 5. —GT— INDICATES WALL TYPE PER SCHEDULE

Roof Framing Plan

T.E. Project No. 22-27

Buffalo, New York 14210
716.876.7147 ph

Project Number: 2022-0034

1010 SOUTH WABASH

312.663.0222

CHICAGO, ILLINOIS 60605

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DIVISION 1 - GENERAL CONDITIONS

- ALL WORK SHALL COMPLY WITH THE LATEST ADDITION OF THE BUILDING CODE OF NEW YORK STATE, AISC CODE, ACI BUILDING CODE (ACI-318), AWS CODE, ASTM STANDARDS AND ANY OTHER APPLICABLE CODES, RULES AND REGULATIONS BY AGENCIES HAVING JURISDICTIONS. WHERE CODES OVERLAP, COMPLY WITH THE MORE STRINGENT REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN INSURANCE AS WILL PROTECT HIM FROM LIABILITY UNDER WORKMAN'S COMPENSATION ACTS AND OTHER EMPLOYEE BENEFITS ACTS IN ACCORDANCE WITH THE LAWS OF NEW YORK STATE, AND FROM LIABILITY FOR DAMAGES BECAUSE OF BODILY INJURY, INCLUDING DEATH AND PROPERTY DAMAGE.
- CONTRACTOR IS TO REVIEW DRAWINGS AND EXISTING SITE CONDITIONS AND DIMENSIONS FOR SCOPE OF WORK INVOLVED. CONTRACTOR IS TO INCLUDE IN HIS PROPOSAL ALL ITEMS, MATERIALS, ETC...TO ACHIEVE THE DESIGN CONCEPTS SHOWN ON THE DRAWINGS. MINOR CHANGES IN THE WORK, DUE TO EXISTING CONDITIONS, WILL BE ALLOWED IF APPROVED BY THE ARCHITECT/ENGINEER BEFORE
- EXISTING DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB. VERIFICATION OF EXISTING DIMENSIONS AND CONDITIONS SHALL BE DONE PRIOR TO PREPARATION OF SHOP DRAWINGS.
- CONTRACTOR IS TO INCLUDE IN HIS PROPOSAL ALL ADDITIONAL MATERIALS AND LABOR AS REQUIRED TO WORK AROUND EXISTING CONDITIONS, AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED.
- ALL WORKMANSHIP MUST BE IN THE BEST PRACTICE OF THE TRADE AS DETERMINED BY THE ARCHITECT. ANY WORK NOT MEETING THESE STANDARDS WILL BE REJECTED
- THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
- CONTRACTOR IS TO DISPOSE OF ALL DEMOLITION MATERIALS AND LEAVE THE WORK IN A READY TO USE
- CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, LABOR PROCEDURES AND SAFETY PRECAUTIONS FOR COMPLETING THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL WORK DURING CONSTRUCTION UNTIL FINAL APPROVAL BY ARCHITECT, OWNER AND LOCAL OFFICIALS.
- DURING DEMOLITION WORK, THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING TO PREVENT DAMAGE TO ANY ADJACENT EXISTING STRUCTURES.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ANY EXISTING UTILITIES ON OR ADJACENT TO PROPERTY.
- WHERE A SPECIFIC MANUFACTURER'S PRODUCT IS CALLED OUT, ALL MATERIALS AND WORK MUST COMPLY WITH THE MANUFACTURER'S STRICT RECOMMENDATIONS FOR INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN INSTRUCTIONS AND TO THEN FOLLOW THEM.
- WHERE A NAME BRAND IS <u>NOT</u> CALLED OUT, THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND/OR PRODUCT INFORMATION FOR ARCHITECT/ENGINEER REVIEW AND APPROVAL. MINOR ITEMS IN THE WORK ARE NOT SPECIFIED. CONTRACTOR IS TO USE QUALITY AND QUANTITY THAT IS STANDARD TO THE TRADE.
- ALL OPENINGS THROUGH SLABS, WALLS, AND ROOFS ARE NOT SHOWN. PROVIDE UNIT PRICES FOR ADDITIONAL FRAMING AND REINFORCING.
- CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, WASHES, DRIPS, REVEALS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS.
- TYPICAL DETAILS APPLY TO ALL DRAWINGS AND SHALL BE USED EXCEPT WHERE OTHERWISE SHOWN

DIVISION 1.4 - OWNER'S TESTING

- PROVIDE OWNER'S TESTING TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS SECTION IS INTENDED TO INFORM THE CONTRACTOR OF THE OWNER'S P. ANY DISCREPANCIES FROM THE CONTRACT DOCUMENTS FOUND DURING AN INSPECTION SHALL BE QUALITY ASSURANCE PROGRAM AND EXTENT OF THE CONTRACTOR'S RESPONSIBILITIES. THIS SECTION IS ALSO INTENDED TO NOTIFY THE TESTING LABORATORIES AND AGENTS OF THEIR REQUIREMENTS AND RESPONSIBILITIES.
- THE SERVICES AND QUANTITIES OF TESTING SPECIFIED ARE APPROXIMATE AND MAY VARY. ACTUAL SERVICES AND QUANTITIES OF TESTING WILL BE DETERMINED BY THE OWNER AND/OR ARCHITECT AND CONSTRUCTION MANAGER DURING THE CONSTRUCTION PERIOD.
- THE ARCHITECT, ENGINEER AND/OR CONSTRUCTION MANAGER WILL DETERMINE THE LOCATIONS FOR TAKING SAMPLE SPECIMENS FOR TESTING IN ACCORDANCE WITH THE STATEMENT OF SPECIAL
- THE OWNER WILL EMPLOY AND PAY FOR THE SERVICES OF THE TESTING AGENTS TO PERFORM THE SERVICES SPECIFIED HEREIN; HOWEVER, THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR THE COST OF THOSE SERVICES WHICH, IN THE OPINION OF THE ARCHITECT/ENGINEER (AND CONSTRUCTION MANAGER), ARE REQUIRED DUE TO THE FOLLOWING:
 - a. FAILURE OF MATERIALS OR WORKMANSHIP TO MEET CONTRACT REQUIREMENTS.
 - b. MATERIALS OR PRACTICES, NOT COMPLYING WITH THE SPECIFICATIONS WHICH COULD POSSIBLY RESULT IN DEFECTIVE WORK THEREBY RENDERING IT NECESSARY OR ADVISABLE TO PERFORM TESTS TO DETERMINE WHETHER OR NOT WORK IS ACCEPTABLE.
 - c. CHANGES IN SOURCE, QUALITY OR CHARACTERISTICS OF MATERIALS.
- d. SITE CURED CYLINDERS REQUESTED BY THE CONTRACTOR.
- INSPECTIONS SHALL BE PERFORMED BY AGENTS WHO ARE CERTIFIED AS IDENTIFIED BELOW, OR ARE WORKING UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER.
 - a. TECHNICIANS PERFORMING SAMPLING AND TESTING OF CONCRETE SHALL BE ACI CERTIFIED CONCRETE FIELD TESTING TECHNICIANS - GRADE 1.
 - b. INSPECTORS PERFORMING INSPECTIONS OF CONCRETE WORK SUCH AS INSPECTIONS OF CONCRETE PLACEMENT, BATCHING, REINFORCING PLACEMENT, CURING AND PROTECTION, SHALL BE ACI CERTIFIED CONCRETE CONSTRUCTION INSPECTORS OR ICBO CERTIFIED REINFORCED CONCRETE SPECIAL INSPECTORS.
 - c. TECHNICIANS PERFORMING VISUAL INSPECTION OF WELDING SHALL BE AWS CERTIFIED WELDING INSPECTORS OR ICBO CERTIFIED STRUCTURAL STEEL AND WELDING SPECIAL INSPECTORS; TECHNICIANS PERFORMING NON-DESTRUCTIVE TESTING SUCH AS ULTRASONIC TESTING, RADIOGRAPHIC TESTING, MAGNETIC PARTICLE TESTING, OR DYE-PENETRATE TESTING SHALL BE CERTIFIED AS AN ASNT-TC LEVEL II OR LEVEL III TECHNICIAN.
 - d. TECHNICIANS PERFORMING STANDARD TESTS DESCRIBED BY SPECIFIC ASTM STANDARDS SHALL HAVE TRAINING IN THE PERFORMANCE OF SUCH TESTS AND MUST BE ABLE TO DEMONSTRATE EITHER BY ORAL OR WRITTEN EXAMINATION COMPETENCE FOR THE TEST TO BE CONDUCTED. THEY SHALL BE UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER AND SHALL NOT BE PERMITTED TO INDEPENDENTLY EVALUATE TEST RESULTS.
- CONTRACTOR'S SHALL COOPERATE WITH LABORATORY PERSONNEL AND PROVIDE ACCESS TO THE WORK AND TO MANUFACTURERS/FABRICATOR'S FACILITIES AS REQUIRED FOR THE PERFORMANCE OF THEIR SERVICES, SHALL RETAIN THE LATEST SET OF CONSTRUCTION DRAWINGS, FIELD SKETCHES, APPROVED SHOP DRAWINGS, AND SPECIFICATION AT THE PROJECT SITE FOR USE BY THE INSPECTORS AND TESTING TECHNICIANS. CONTRACTOR'S SHALL ALSO PROVIDE CASUAL LABOR AND FACILITIES TO PROVIDE ACCESS TO THE WORK TO BE INSPECTED OR TESTED, TO OBTAIN AND HANDLE SAMPLES AT THE SITE, TO FACILITATE INSPECTIONS AND TESTS, TO CONSTRUCT A STORAGE BOX ON THE SITE OF SUFFICIENT SIZE TO STORE CYLINDERS, WHICH WILL AFFORD PROTECTION, REQUIRED BY ASTM C 31.
- CONTRACTOR'S SHALL PROVIDE THE LABORATORY WITH PRELIMINARY REPRESENTATIVE SAMPLES OF MATERIALS TO BE TESTED, IN REQUESTED QUANTITIES. WHEN THE SOURCE, QUALITY OR CHARACTERISTIC OF AN APPROVED MATERIAL CHANGES OR INDICATES LACK OF COMPLIANCE WITH CONTRACT REQUIREMENTS, CONTRACTOR'S SHALL SUBMIT ADDITIONAL SAMPLES OF MATERIALS TO TESTING LABORATORY.

<u>DIVISION 1.4 - OWNER'S TESTING</u> (CONTINUED)

- WHEN REQUESTED BY THE ARCHITECT/ENGINEER, OR THE TESTING LABORATORY, THE CONTRACTOR SHALL IMMEDIATELY PROVIDE COPIES OF MILL REPORTS, CUTTING LISTS, MATERIAL BILLS, SHIPPING BILLS, TIME AND PLACE OF SHIPMENT OF MATERIALS TO SHOP AND FIELD AND ANY RELEVANT DATA ON PREVIOUS TESTING AND INVESTIGATIONS OF MATERIALS.
- CONTRACTOR'S SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING INSPECTIONS AND TESTS TO FACILITATE THE TIMELY SEQUENCE OF INSPECTION AND TESTING. THE CONTRACTOR SHALL GIVE ADVANCED NOTIFICATION TO THE TESTING LABORATORY AND THE ARCHITECT/ENGINEER (AND CONSTRUCTION MANAGER) THAT WORK HAS PROGRESSED TO A POINT WHERE INSPECTION AND TESTING MAY PROCEED.
- ADVANCED NOTIFICATION, SHALL BE 48 HOURS (MIN.) PRIOR TO COMMENCEMENT OF THE FOLLOWING:
- i. EXCAVATION FOR FOUNDATIONS AND SLAB ON GRADE.
- ii. PROOF-ROLLING OF SLAB ON GRADE SUBGRADE.
- b. SOIL COMPACTION: DELIVERY OF FILL TO THE SITE.
- ii. PLACEMENT AND COMPACTION OF FILL OR BACKFILL.
- c. CONCRETE:
- i. SETTING OF REINFORCING AND FORMWORK.
- ii. PLACING CONCRETE.
- d. MASONRY:
- i. DELIVERY OF MASONRY UNITS. ii. SETTING OF REINFORCEMENT.
- iii. INSTALLATION OF MORTAR, GROUT AND MASONRY UNITS.
- THE SPECIAL INSPECTION PROGRAM DOES NOT, IN ANY WAY, RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM. ALL WORK THAT IS TO BE SUBJECTED TO SPECIAL INSPECTIONS SHALL FIRST BE REVIEWED BY THE CONTRACTOR'S QUALITY CONTROL PERSONNEL.
- SERVICES OF TESTING LABORATORY RETAINED BY THE OWNER IS FOR VERIFICATION OF CONTRACTOR'S COMPLIANCE AND IF SUCH TESTS OF INSPECTION INDICATES FAILURE TO COMPLY WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BEAR ALL COST ASSOCIATED WITH ADDITIONAL TESTING AND INSPECTION, AFTER THE WORK HAS BEEN CORRECTED, TO VERIFY COMPLIANCE. AREAS WHERE SAMPLES ARE TAKEN FOR PURPOSES OF TESTING SHALL BE PATCHED TO THE SATISFACTION OF THE
- M. THE SPECIAL INSPECTORS OR TESTING LABORATORIES MAY NOT RELEASE, REVOKE, ALTER, OR ENLARGE ON THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE INSPECTORS OR TESTING LABORATORIES WILL NOT HAVE CONTROL OVER THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION. THE INSPECTORS OR TESTING LABORATORIES ARE NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY. THE INSPECTORS OR TESTING LABORATORIES HAVE NO AUTHORITY TO STOP THE WORK.
- THE INSPECTOR SHALL SUBMIT BI-WEEKLY REPORTS OF EACH INSPECTION OR TEST ON SOILS, CONCRETE, MASONRY, AND STRUCTURAL STEEL TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INCLUDE THE FOLLOWING:
 - a. DATE OF TEST OR INSPECTION.
 - b. NAME OF INSPECTOR OR TECHNICIAN.
 - c. LOCATION OF SPECIFIC AREAS TESTED OR INSPECTED.
 - d. DESCRIPTION OF TEST OR INSPECTION AND RESULTS.
 - e. APPLICABLE ASTM STANDARD.
 - f. WEATHER CONDITIONS.
 - g. SIGNATURE OF SPECIAL INSPECTOR OR TECHNICIAN.
- SUBMIT INTERIM REPORTS TO THE BUILDING OFFICIAL, UPON REQUEST, WHICH INCLUDE ALL INSPECTIONS AND TEST REPORTS RECEIVED THAT WEEK. PROVIDE COPIES TO THE ARCHITECT, AND CONTRACTOR. THE FREQUENCY OF THE INTERIM REPORTS SHALL BE AS REQUIRED BY THE TOWNSHIP. K.
- IMMEDIATELY REPORTED TO THE CONTRACTOR. IF THE DISCREPANCIES ARE NOT CORRECTED, THE INSPECTOR SHALL NOTIFY THE EOR AND BUILDING OFFICIAL. REPORTS SHALL DOCUMENT ALL DISCREPANCIES IDENTIFIED AND THE CORRECTIVE ACTION TAKEN.

THE TESTING LABORATORY SHALL IMMEDIATELY NOTIFY THE REGISTERED DESIGN PROFESSIONAL IN

- RESPONSIBLE CHARGE BY TELEPHONE OR EMAIL OF ANY TEST RESULTS WHICH FAIL TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE INSPECTORS AND TESTING LABORATORIES SHALL DISCLOSE ANY PAST OR PRESENT BUSINESS
- RELATIONSHIP OR POTENTIAL CONFLICT OF INTEREST WITH THE CONTRACTOR OR ANY OF THE SUBCONTRACTORS WHOSE WORK WILL BE INSPECTED OR TESTED.
- TESTING AND INSPECTIONS FOR EXISTING SUBGRADES SHALL INCLUDE LABORATORY TESTING AND FIELD VERIFICATION AS FOLLOWS:
 - a. LABORATORY TESTS
 - i. FOR EXISTING SITE MATERIAL
 - 1. COHESIVE SOILS AND SEMI COHESIVE SOILS: PROVIDE ONE OPTIMUM MOISTURE MAXIMUM DENSITY CURVE FOR EACH TYPE OF SUBGRADE SOIL ENCOUNTERED IN ACCORDANCE WITH ASTM D 1557.
 - NON-COHESIVE SOILS: PROVIDE MAXIMUM AND MINIMUM INDEX DENSITIES AND RELATIVE DENSITIES FOR EACH TYPE OF SUBGRADE SOIL ENCOUNTERED IN ACCORDANCE WITH
 - ii. FOR BORROW MATERIALS: ANALYZE EACH TYPE OF BORROW MATERIALS BEFORE ACCEPTANCE AND DELIVERY TO THE SITE. ANY CHANGE IN THE SOURCE OR QUALITY OF THE MATERIAL WILL REQUIRE A NEW SERIES OF TESTS TO DETERMINE ACCEPTABILITY.
 - 1. PARTICLE SIZE ANALYSIS OF SOILS ASTM D 422, ASTM D 421, ASTM D 420, ASTM C 117 RECOMMENDED PRACTICE.
 - PLASTICITY INDEX DETERMINATION ASTM D_4318.
 - MOISTURE_DENSITY CURVE DETERMINATION ASTM D_1557 OR RELATIVE DENSITY (ASTM D_4253
 - OR ASTM D 4254) AS SPECIFIED ABOVE.
 - FROST SUSCEPTIBILITY ANALYSIS.
 - b. FIELD TESTS:
 - i. THE OWNER'S SOILS TESTING AGENCY REPRESENTATIVE SHALL BE PRESENT DURING DELIVERY AND COMPACTION OF FILL MATERIALS. OBSERVE PROOFROLLING OPERATIONS, IDENTIFY LOCATION AND EXTENT OF SOFT, LOOSE, OR YIELDED SUBGRADE MATERIAL THAT MUST BE REMOVED OR UNDERCUT, AND INSPECT UNDERCUT SUBGRADE.
 - ii. ESTABLISH SUITABLE BEARING GRADES FOR FOUNDATIONS AND STRUCTURAL FILL BELOW SLABS ON GRADE.
 - iii. VERIFY NATURAL SOIL AND STRUCTURAL FILL SUBGRADES FOR ALL SLABS ON GRADE. iv. IN PLACE DENSITY TESTS: TEST IN ACCORDANCE WITH ASTM D 1556 (SAND CONE METHOD) OR ASTM D 2922 (NUCLEAR METHOD) ON COMPACTED NATURAL SOILS OR STRUCTURAL FILL
 - MATERIALS AS FOLLOWS: v. ONE TEST FOR EACH 2000 SQ. FT. OF SLAB ON GRADE AND PAVEMENT SUBGRADE PER 12" LIFT. vi. ONE TEST FOR EACH 200 CU. YD. OF FILL AND BACKFILL AT EXTERIOR SIDE OF FOUNDATION WALLS AND UNPAVED AREAS.

<u>DIVISION 1.4 - OWNER'S TESTING</u> (CONTINUED)

- T. CONCRETE SAMPLES SHALL BE TAKEN IN ACCORDANCE WITH ASTM C_172 "SAMPLING FRESH CONCRETE" AND COMPRESSION TESTS TO VERIFY THAT DESIGN MIX COMPLIES WITH CONTRACT DOCUMENTS SHALL BE COMPLETED. TEST SLUMP AND AIR CONTENT OF CONCRETE AT SAME FREQUENCY AND FROM SAME TRUCKLOAD AS COMPRESSION TESTS AND MORE OFTEN WHEN DIRECTED BY THE OWNER'S REPRESENTATIVE.
 - a. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C_143 "METHODS FOR SLUMP OF PORTLAND CEMENT CONCRETE"
 - b. DETERMINE AIR CONTENT BY ASTM C_231 "METHOD OF TEST FOR AIR CONTENT OF FRESHLY MIXED
 - CONCRETE BY THE VOLUMETRIC METHOD". c. LABEL EACH COMPRESSION TEST CYLINDER IDENTIFYING THE TRUCKLOAD OF CONCRETE FROM WHICH SAMPLE WAS TAKEN AND THE EXACT LOCATION IN CONSTRUCTION WHERE DEPOSITED.
 - d. TEST SPECIMENS IN ACCORDANCE WITH ASTM C_39 "METHODS OF TESTS FOR COMPRESSIVE STRENGTH OF MOLDED CONCRETE CYLINDERS". INCLUDE WEIGHT TEST.
 - e. ONE COMPRESSION TEST, AS USED HEREIN SHALL CONSIST OF 3 TEST CYLINDERS MADE FROM COMPOSITE SAMPLES SECURED FROM A SINGLE TRUCKLOAD OF CONCRETE. ONE COMPRESSION
 - TEST WILL BE REQUIRED FOR EACH OF THE FOLLOWING CONDITIONS: i. EACH 50 CU. YD. OF CONCRETE, OR FRACTION THEREOF, REPRESENTATIVE OF AN AREA OF USE
 - (FOR EXAMPLE: FOOTINGS, BASEMENT WALLS, SLAB ON GRADE, ETC) f. BREAK 1 TEST CYLINDER AT 7 DAYS AND THE REMAINING 2 AT 28 DAYS. IF DESIRED BY THE ARCHITECT, ENGINEER, OR CONSTRUCTION MANAGER A FOURTH TEST CYLINDER CAN BE MADE
- U. BRICK UNIT MASONRY
 - a. MORTAR: TEST ONE SET OF THREE CUBES PER ASTM C780 FOR EACH DAYS WORK OR EVERY 5000 SQ. FT. OF WALL AREA, WHICHEVER IS THE LESSER.

DIVISION 2 - SITE WORK / EARTHWORK /FOUNDATIONS

AND HELD FOR 56 DAYS.

- A. A TESTING AGENCY WILL BE EMPLOYED BY THE OWNER TO VERIFY ACCEPTABILITY OF WORKMANSHIP I. AND MATERIALS.
- SLOPE SIDES OF EXCAVATIONS ARE TO COMPLY WITH THE LOCAL CODES, ORDINANCES AND REQUIREMENTS OF AGENCIES HAVING JURISDICTION. SHORE AND/OR BRACE WHERE SLOPING IS NOT J. POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN SAFE CONDITION UNTIL COMPLETION OF BACKFILLING.
- BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS. OPERATE WARNING LIGHTS DURING HOURS FROM DUSK TO DAWN EACH DAY AND AS OTHERWISE REQUIRED.
- D. ALL SUBGRADE SUPPORTED FOOTINGS AND CONCRETE PIERS SHALL BEAR ON UNDISTURBED NATURAL SUBGRADE MATERIAL HAVING A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2 KIPS PER SQUARE FOOT (1 KIP=1000 LBS.), AS TESTED AND INSPECTED BY THE OWNER'S SOIL TESTING AGENCY.
- PREVENT SURFACE WATER AND SUBSURFACE GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA. NO FOOTINGS, GRADE BEAMS OR SLABS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- F. ALL FOOTING EXCAVATIONS ARE TO BE FINISHED BY HAND.
- G. ALL FINISHED EXCAVATIONS AND BEARING GRADES SHALL BE INSPECTED AND APPROVED BY THE OWNER'S SOIL TESTING AGENCY BEFORE ANY CONCRETE IS PLACED.
- H. THE SUBGRADE FOR THE SLAB ON GRADE SHALL AS DETAILED.
- I. USE SIDE FORMS FOR ALL FOOTINGS, WALLS AND PIERS.
- SHOULD ROCK BE ENCOUNTERED DURING FOUNDATION EXCAVATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY. DO NOT PROCEED WITH ROCK EXCAVATION UNTIL GIVEN AUTHORIZATION TO DO SO. SUCH EXCAVATION WILL BE PAID FOR ON THE BASIS OF UNIT PRICES AS GIVEN IN THE BID FORM.
- IN GENERAL, EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN NOT LESS THAN 4-FEET BELOW FINISHED EXTERIOR GRADE.
- BACKFILL AGAINST FOUNDATION WALLS BELOW GRADE SO THAT DIFFERENCE IN FILL LEVEL ON OPPOSITE SIDE DOES NOT EXCEED 1'-0" AT ANY TIME OR PROVIDE TEMPORARY LATERAL SUPPORT UNTIL PERMANENT LATERAL SUPPORT SYSTEM IS IN PLACE AND OF ADEQUATE STRENGTH TO WITHSTAND THE APPLIED LATERAL PRESSURES.

DIVISION 3 - CONCRETE

- A. ALL CONCRETE SHALL BE CONTROLLED CONCRETE.
- B. ALL CONCRETE SHALL BE TRUCK MIXED.
- C. A QUALITY CONTROL PROGRAM OF FIELD TESTING AND INSPECTION SHALL BE PERFORMED ON ALL STRUCTURAL CONCRETE WORK IN ACCORDANCE WITH THE SPECIFICATIONS.
- D. CONCRETE SHALL HAVE THE FOLLOWING EXPOSURE CLASS, MAXIMUM W/C, MINIMUM COMPRESSIVE STRENGTH AT 28-DAYS, AND AIR CONTENT:

AREA OF USE	CLASS	w/cm	f'c (PSI)	AIR (+1,-2%)
WALLS, PIERS AND FOOTINGS	F3	0.40	5000	6%
SLABS ON GRADE	F0	N/A	3500	N/A
ALL OTHER CONCRETE	F0	N/A	3000	N/A

- E. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NOMINAL AIR DRY DENSITY OF 145 PCF.
- CONCRETE ACCEPTANCE SHALL BE ON THE BASIS OF "30 CONSECUTIVE TEST" OR "TRIAL MIXTURES" AS DESCRIBED IN ACI 318, SECTION 5.3. PROVIDE TRIAL MIXTURES FOR THREE DIFFERENT WATER-CEMENT RATIOS INDICATING 7-DAY AND 28-DAY COMPRESSIVE STRENGTH (Fc); 1200 PSI GREATER THAN REQUIRED SHALL BE ACCEPTED.
- G. ADD POZZOLITH OR WRDA WATER REDUCING ADMIXTURE TO MIX PER MANUFACTURER'S RECOMMENDATIONS.
- H. FINE AGGREGATE SHALL CONSIST OF WASHED NATURAL SAND CONFORMING TO ASTM C-33 AND COARSE AGGREGATE SHALL CONSIST OF WELL-GRADED CRUSHED STONE OR WASHED GRAVEL CONFORMING TO ASTM C-33, 3/4" SIZE.
- A MINIMUM OF ONE SET OF THREE STANDARD TEST CYLINDERS FOR PLACEMENT OF EACH AREA OF USE OR MIX DESIGN SHALL BE TAKEN, AND THE OWNER'S TESTING AGENCY WILL PERFORM COMPRESSION TESTS AS NOTED ABOVE.
- WALLFORM PANELS SHALL BE PLYWOOD OR TEMPERED HARDBOARD FACES WITH AN ACCEPTED APPLIED FORM RELEASE AGENT.
- K. CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL):

1.	UNFORMED SURFACES IN CONTACT WITH	3 INCHES
	GROUND (FOOTING OR WALL BOTTOM)	
2.	SLABS ON GRADE	1/2 INCHES
3.	FORMED SURFACES IN CONTACT WITH	2 INCHES
	GROUND OR EXPOSED TO WEATHER (WALLS)	
4.	INTERIOR WALL SURFACES	1 INCH

IN ALL CASES, CLEARANCE NOT LESS THAN DIAMETER OF BARS.

- NOTE: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE +1/4" FOR SECTIONS TEN (10) INCHES OR LESS AND +1/2" FOR SECTIONS OVER TEN (10) INCHES THICK.
- L. ALL PLACEMENT OF CONCRETE AND REINFORCEMENT:

ACCORDING TO ACI 318 (INCLUDING ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONDITIONS); AND CRSI RECOMMENDED PRACTICES FOR 'PLACING REINFORCING BARS'.

- M. CURING COMPOUND:
 - FOUNDATION WALLS: MASTER BUILDERS CO. MB-429. BUILDING FLOORS: MASTER BUILDERS CO. "MASTERSEAL".
- N. FLOOR FINISH: HARD STEEL TROWEL UNLESS OTHERWISE INDICATED ON DRAWINGS.
- EXPANSION JOINT FILLERS: SEE DETAILS AND NOTES ON DRAWINGS.
- P. FORM REMOVAL (MINIMUM TIME):

5-DAYS FOR AIR TEMPERATURES BETWEEN 40 & 50 DEGREES 3-DAYS FOR AIR TEMPERATURE ABOVE 55 DEGREES.

- WHERE EXPOSED ABOVE GRADE, EITHER INTERIOR OR EXTERIOR, CONCRETE SHALL HAVE A SMOOTH FINISH AS OBTAINED BY THE USE OF SMOOTH PLYWOOD OR TEMPERED BOARD FORMS. GRIND OFF FINS, JOINT MARKS, BULGES AND OTHER PROMINENT GRAIN MARKINGS. FILL AND GRIND OFF HONEYCOMBED OR DEPRESSED AREAS AND LEAVE SMOOTH AND WASHED CLEAN.
- R. REINFORCING BARS SHALL BE NEW ASTM A615. GRADE 60.
- S. STEEL WELDED WIRE FABRIC SHALL BE NEW ASTM A185. FURNISH IN FLAT SHEETS. LAP 1-1/2 SQUARES
- IN ALL DIRECTIONS AT JOINTS. BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE GALVANIZED AND PLASTIC TIPPED.
- WHERE CONTINUOUS REINFORCING IS CALLED FOR, IT SHALL BE RUN CONTINUOUSLY AROUND CORNERS, LAPPED AT NECESSARY SPLICES AND HOOKED AT DISCONTINUOUS ENDS.
- V. SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REBAR.
- PLACED.

X. NON-SHRINK GROUT SHALL BE A MIXTURE OF WATER AND MASTERFLOW 713 BY MASTER BUILDERS.

W. ALL REINFORCING SHALL BE INSPECTED BY THE OWNER'S TESTING AGENCY BEFORE CONCRETE IS

Y. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

Grand Island Residence E. River Road Grand Island, NY



Project Number: 2022-0034



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BEAM, SLAB AND WALL REINFORCING LAP SPLICE LENGTHS

LAP SPLICE LENGTHS FOR REINFORCING IN <u>5000 PSI CONCRETE</u> ARE AS FOLLOWS:

	TENSION	DEVELOPMEN	
BAR SIZE	TOP	OTHER	<u>LENGTH</u>
3	18	14	12
4	22	18	12
5	28	22	12
6	33	26	14
7	49	37	16
8	55	43	18
9	63	48	20
10	70	54	24
11	78	60	26

LAP SPLICE LENGTHS FOR REINFORCING IN 4000 PSI CONCRETE ARE AS FOLLOWS:

	TENSION	I SPLICE	DEVELOPMENT
BAR SIZE	TOP	OTHER	<u>LENGTH</u>
3	20	16	12
4	26	20	12
5	32	24	12
6	38	30	14
7	54	42	18
8	62	48	20
9	70	54	22
10	80	62	24
11	88	68	28

LAP SPLICE LENGTHS FOR REINFORCING IN <u>3000 PSI CONCRETE</u> ARE AS FOLLOWS:

	TENSIO	N SPLICE	DEVELOPME
BAR SIZE	TOP	OTHER	LENGTH
3	22	18	12
4	30	22	12
5	36	28	14
6	44	34	18
7	64	48	20
8	72	56	22
9	82	62	26
10	92	70	28
11	102	78	32
OTES:			

- LAPPED SPLICE LENGTHS BASED ON ASTM A-615, GRADE 60, REBAR.
- REINFORCING BARS ARE CLASSED AS TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.
- COMPRESSION SPLICES PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS, DETAILS
- TENSION SPLICES SHALL BE USED IN ALL BEAMS, SLABS AND WALLS UNLESS OTHERWISE NOTED. WHEN LAPPING LARGER BAR WITH SMALLER BAR, LAP LENGTH FOR SMALLER BAR SHALL GOVERN
- RESPECTIVE SPLICE. SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN WITH COMPRESSION
- SPLICE CONTINUOUS BOTTOM REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH
- COMPRESSION SPLICES.
- ALL SPLICE LENGTHS NOTED IN INCHES.

DIVISION 5 - METALS

SECTION 5A - STEEL FABRICATIONS

- ALL STRUCTURAL STEEL SHALL BE NEW STEEL WHICH CONFORMS TO ASTM WITH THE FOLLOWING MINIMUM FOR YIELD STRESS (Fy):
- WIDE FLANGE SHAPES 50-65 KSI, ASTM A992 TUBULAR SHAPES 46 KSI, ASTM A500, GRADE B 36 KSI, ASTM A53, GRADE B ROUND SHAPES 4. PLATES, ANGLES & C-SECTIONS 36 KSI, ASTM A36
- DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND CODES, LATEST EDITIONS.
- PERFORM ALL WELDING USING "QUALIFIED WELDERS" AND IN ACCORDANCE WITH THE AWS "STRUCTURAL WELDING CODE D1.1, LATEST EDITION. COMPLY WITH AISC SPECIFICATION SECTION J2.2 FOR MINIMUM FILLET WELD SIZE, BUT DO NOT USE LESS THAN 1/4" UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. WELD FILLER MATERIAL PER AWS D1.1 SECTION 4.1 (INCLUDING TABLE 4.1) WITH AN ELECTRODE STRENGTH OF 58 KSI, MINIMUM YIELD STRENGTH AND 70 KSI MINIMUM TENSILE STRENGTH.
- SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OF STRUCTURAL STEEL. SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL.
- IN GENERAL, DESIGN ALL BEAM-TO-BEAM AND BEAM-TO-COLUMN CONNECTIONS AS SIMPLE SHEAR CONNECTIONS CAPABLE OF END ROTATION AS PER AISC SPECIFICATION SECTION J1.2 - UNRESTRAINED MEMBERS. PROVIDE HIGH-STRENGTH BOLTS IN BEARING TYPE CONNECTIONS FOR END REACTION AS TABULATED IN THE AISC HANDBOOK, PART 2.
- PROVIDE 3/4" MINIMUM DIAMETER HIGH-STRENGTH BOLTS, WHICH CONFORM TO THE REQUIREMENTS OF ASTM A325N FOR ALL BOLTED CONNECTIONS.
- CLEAN ALL STEEL IN ACCORDANCE WITH SSPC-SP3. NO PAINT IS REQUIRED FOR STEEL TO RECEIVE SPRAY FIREPROOFING (SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING DETAILS AND REQUIREMENTS). ALL OTHER STEEL SHALL RECEIVE ONE COAT OF RUST INHIBITIVE METAL PRIMER, TNEMEC 10-99 OR ACCEPTED EQUIVALENT. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL PAINT REQUIREMENTS AT EXPOSED STEEL.
- ANCHOR BOLTS, BASE PLATES AND BEARING PLATES SHALL BE LOCATED AND BUILT INTO CONNECTING WORK, PRE-SET BY TEMPLATES OR SIMILAR METHODS. ALL PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK GROUT.
- SCOPE COMBINED STRUCTURAL AND MISCELLANEOUS METAL FABRICATIONS:
 - INCLUDING ALL METAL FABRICATION ITEMS LISTED OR DETAILED ON THE DRAWINGS THAT MAY NOT BE LISTED BELOW, AS WELL AS STANDARD AND OBVIOUS MISCELLANEOUS METAL ITEMS NECESSARY FOR THE INTENT AND FUNCTION OF THE PROJECT, UNLESS SPECIFIED UNDER OTHER DIVISIONS.
- LINTELS FABRICATED AND LOOSE ANGLE AS NOTED AND DETAILED ON THE DRAWINGS. SEE RESPECTIVE SCHEDULES FOR BEARING AND NON-LOAD BEARING CMU LINTEL SIZES.
- STRUCTURAL STEEL INCLUDING COLUMNS, BEAMS, CONNECTIONS, BEARING PLATES AND BASE PLATES. INCLUDE ALL CONNECTION MATERIAL AND WELDMENTS.
- TEMPORARY ERECTION BRACING SHALL BE PROVIDED TO HOLD STRUCTURAL STEEL SECURELY IN POSITION. IT SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED. THE BUILDING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS MAY BE FINALLY BOLTED OR WELDED.
- DO NOT FIELD CUT ANY STRUCTURAL STEEL WITHOUT THE REVIEW AND ACCEPTANCE OF THE ARCHITECT/ENGINEER.

DIVISION 6 - WOOD

SECTION 6A - ROUGH CARPENTRY AND STRUCTURAL LAMINATED MEMBERS

- A. LUMBER SHALL COMPLY WITH PS20 "AMERICAN SOFTWOOD LUMBER STANDARD" WITH APPLICABLE GRADING RULES.
- B. ALL LUMBER SHALL BE VISUALLY GRADED OR MACHINE RATED WITH THE FOLLOWING MINIMUM ALLOWABLE UNIT STRESSES:

		DOUGLAS FIR LARCH No. 2	SPRUCE PINE <u>FIR STUD</u>	
Fb	EXTREME FIBER IN BENDING:	900 PSI	675 PSI	
Fc	COMPRESSION PARALLEL TO GRA	AIN 1350 PSI	725 PSI	
Fv	HORIZONTAL SHEAR	180 PSI	135 PSI	
Ε	MODULUS OF ELASTICITY	1,600,000 PSI	1,200,000 PSI	

- C. ALL LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING OF 19%.
- D. PLYWOOD SHALL CONFORM TO REQUIREMENTS OF PS1 "U.S. PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" AND AMERICAN PLYWOOD ASSOCIATION (APA) "PERFORMANCE STANDARD AND POLICIES FOR STRUCTURAL USE PANELS", FORM No. E445.
- E. FACTORY MARK EACH CONSTRUCTION PANEL WITH APA TRADEMARK INDICATING COMPLIANCE WITH EXPOSURE 1 GRADE REQUIREMENTS.
- PROVIDE FASTENERS AND ANCHORAGE AS INDICATED AND AS RECOMMENDED BY APPLICABLE STANDARDS, COMPLYING WITH FEDERAL STANDARDS FOR NAILS, STAPLES, SCREWS, BOLTS, NUTS, WASHERS AND ANCHORING DEVICES.
- G. WHERE ROUGH CARPENTRY WORK IS EXPOSED TO GROUND OR WEATHER, USE FASTENERS WITH A HOT-DIP ZINC COATING (ASTM A153).
- H. PRESSURE TREATED LUMBER WITH WATER BORNE PRESERVATIVES TO COMPLY WITH AWPB LP-2 FOR ALL LUMBER EXPOSED TO MOISTURE INCLUDING BUT NOT LIMITED TO WOOD CANTS, NAILERS, BLOCKING, STRIPPING, MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS AND WATERPROOFING, SILLS, SLEEPERS, MEMBERS IN CONTACT WITH MASONRY OR CONCRETE, AND MEMBERS LESS THAN 18" ABOVE GRADE.
- STRUCTURAL LAMINATED MEMBERS SHALL BE ENGINEERED LUMBER CONSISTING OF THIN PLYWOOD VENEERS SECURELY BONDED TOGETHER. ACCEPTABLE PRODUCTS ARE MICRO=LAM BY TRUS JOIST CORPORATION, GANG-LAM LVL BY LOUISIANA-PACIFICA CORPORATION, AND ASI LAMINATED VENEER LUMBER BY ALPINE WOOD PRODUCTS, INC. EQUIVALENT SUBSTITUTIONS MAY BE USED IF SUBMITTED TO, AND ACCEPTED BY, THE ARCHITECT/ENGINEER. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

SECTION 6B - PREFABRICATED WOOD TRUSSES

- A. SUBMIT ENGINEERED AND CHECKED TRUSS SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW. SHOW SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION PLANS FOR ALL PREFABRICATED WOOD TRUSSES.
- B. SUBMIT TRUSS MEMBER, METAL PLATE CONNECTOR, BEAM TO TRUSS AND TRUSS TO TRUSS CONNECTION DESIGN CALCULATIONS, PREPARED AND SEALED BY A QUALIFIED STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NEW YORK, TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- C. DESIGN ALL TRUSS MEMBERS AND CONNECTIONS IN ACCORDANCE WITH THE LATEST EDITIONS OF TPI
 SEISMIC LOAD NOT REQUIRED PER IRC 301.2.2(2): SEISMIC DESIGN CATEGORY = A "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" AND THE AF&PA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" TO SUPPORT ALL LOAD CONFIGURATIONS INDICATED.
- D. ALL LUMBER SHALL BE NEW.
- TRUSS CONNECTOR PLATES SHALL BE FORMED FROM NEW SHEET STEEL, 20 GAGE MINIMUM. CONFORMING TO ASTM A446 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. CONNECTOR PLATES SHALL BE HOT-DIPPED GALVANIZED, COATING DESIGNATION G60.
- PROVIDE TRUSSES WITH AN UPWARD CAMBER, WHICH OFFSETS TRUSS DEFLECTIONS CAUSED BY MEMBER SELF-WEIGHT, ROOF SHEATHING, HUNG CEILING AND MECHANICAL UNITS.
- THE TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE ALL TEMPORARY TRUSS BRACING, BRIDGING AND SHORING AS REQUIRED FOR THE SAFETY, STABILITY AND ALIGNMENT OF THE ROOF AND/OR FLOOR TRUSS SYSTEM. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE PERMANENT LATERAL LOAD RESISTING SYSTEM IS FULLY OPERATIONAL.
- HANDLE AND ERECT ALL TRUSSES IN SUCH A MANNER AS TO AVOID PERMANENT STRUCTURAL DAMAGE TO TRUSS MEMBERS OR CONNECTIONS. HOIST TRUSSES INTO POSITION ONLY AT POINTS SPECIFICALLY DESIGNED AND DESIGNATED BY THE TRUSS MANUFACTURER.
- DO NOT FIELD CUT OR MODIFY TRUSS MEMBERS OR CONNECTIONS WITHOUT THE PRIOR REVIEW OR ACCEPTANCE OF THE ARCHITECT/ENGINEER OR TRUSS MANUFACTURER.

<u>DESIGN LOADS</u>

WIND LOAD

ONE- AND TWO-FAMILY DWELLINGS

UNINHABITABLE ATTICS WITHOUT STORAGE

UNINHABITABLE ATTICS WITH STORAGE

HABITABLE ATTICS AND SLEEPING AREAS ALL OTHER AREAS	30 PSF 40 PSF
CEILINGS	5 PSF
MECHANICAL ITEMS SUSPENDED FROM STRUCTURAL FRAMING	5 PSF
ROOF SNOW LOAD GROUND SNOW LOAD, Pg= SNOW EXPOSURE FACTOR, Ce= SNOW LOAD IMPORTANCE FACTOR, I= THERMAL FACTOR, Ct= FLAT ROOF SNOW LOAD, Pf=	50 PSF 1.0 1.0 1.2 42 PSF

10 PSF

20 PSF

ULTIMATE DESIGN WIND SPEED 115 MPH RISK CATEGORY WIND EXPOSURE APPLICABLE INTERNAL PRESSURE COEFFICIENT +/-0.18

COMPONENTS AND CLADDING

ZONE PER FIGURE 1609.6(2)	EFFECTIVE WIND AREA (SF)	C&C LOADS ADJUSTED FOR EXPOSURE (PSF)	
1	10	20.5	-22.4
1	20	19.9	-21.2
1	50	19.2	-19.7
1	100	18.6	-18.6
2	10	20.5	-26.1
2	20	19.9	-25.0
2	50	19.2	-23.5
2	100	18.6	-22.4
3	10	20.5	-26.1
3	20	19.9	-25.0
3	50	19.2	-23.5
3	100	18.6	-22.4
4	10	22.4	-24.3
4	20	21.3	-23.2
4	50	20.0	-21.9
4	100	19.0	-20.9
4	500	16.6	-18.6
5	10	22.4	-30.0
5	20	21.3	-27.9
5	50	20.0	-25.3
5	100	19.0	-23.2
5	500	16.6	-18.6

BUILDING IS NOT DESIGNED FOR ADDITIONAL HORIZONTAL OR VERTICAL EXTENSIONS.

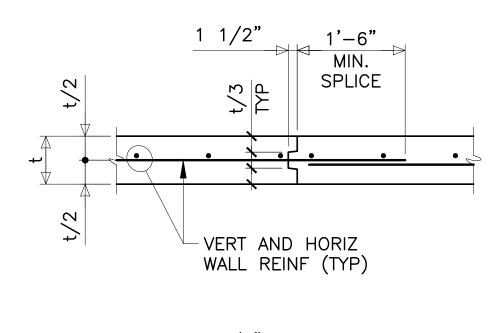
Grand Island Residence E. River Road Grand Island, NY

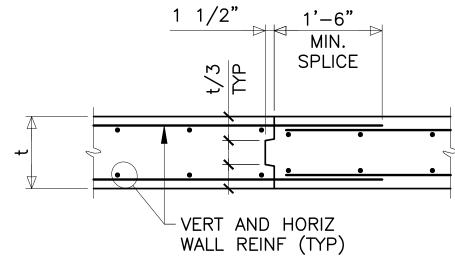


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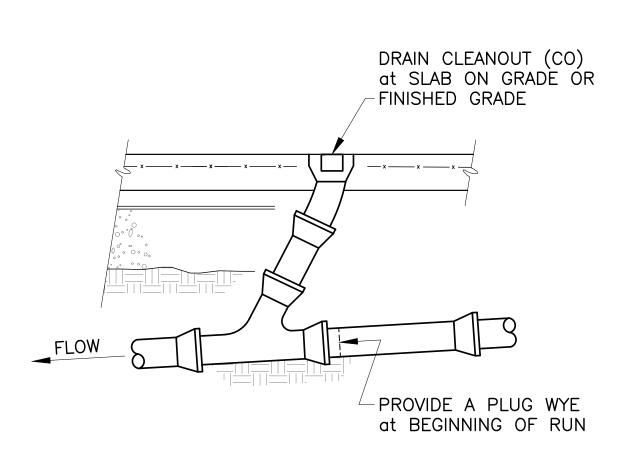


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		Construction	0	
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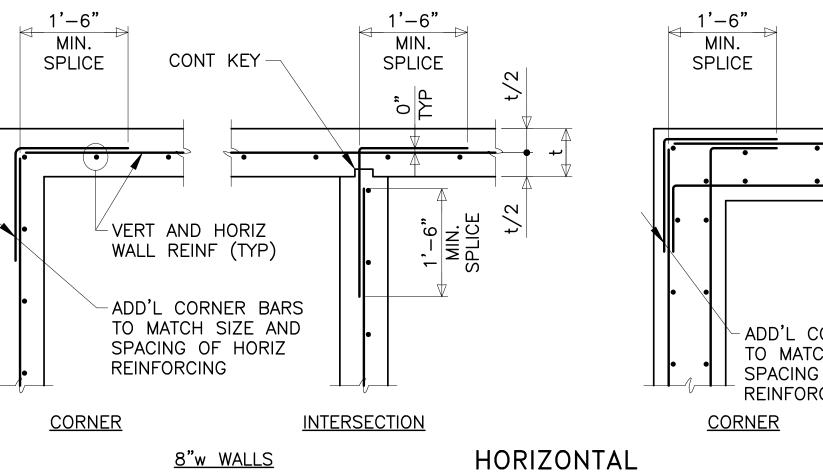




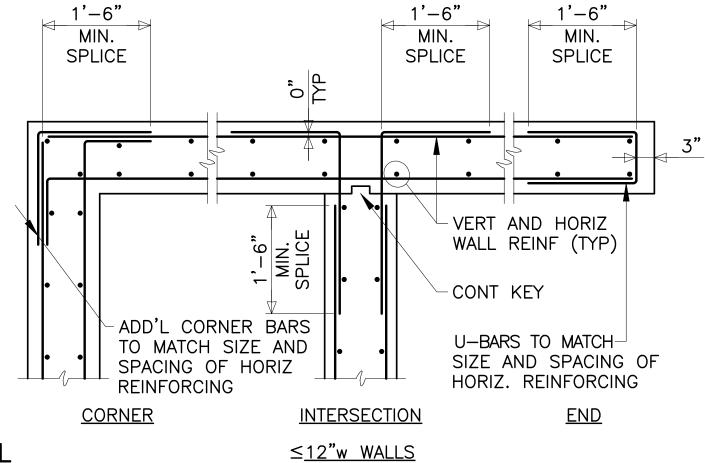


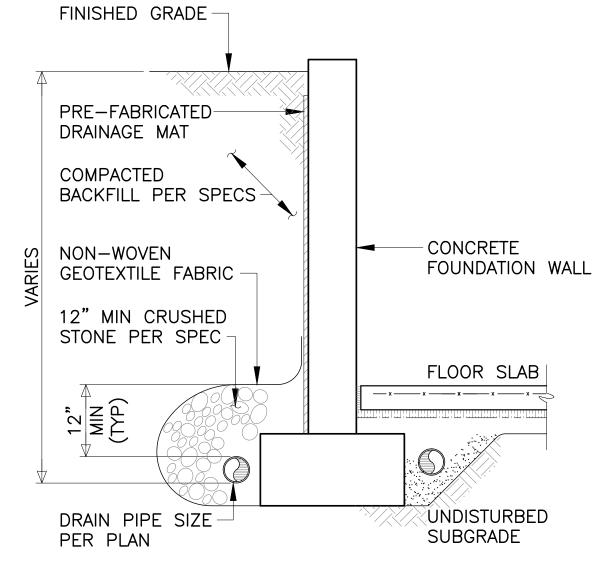
FOUNDATION

ORAIN CLEANOUT

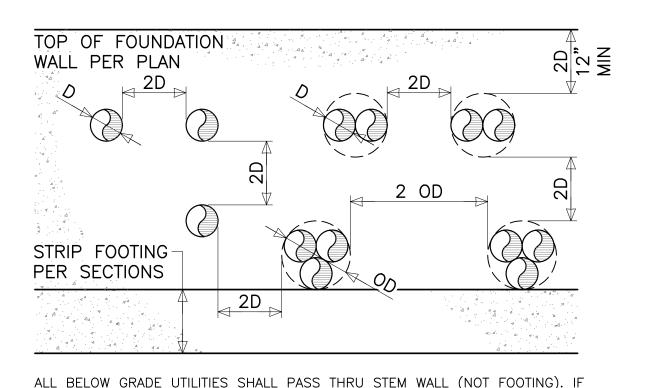


WALL REINFORCEMENT









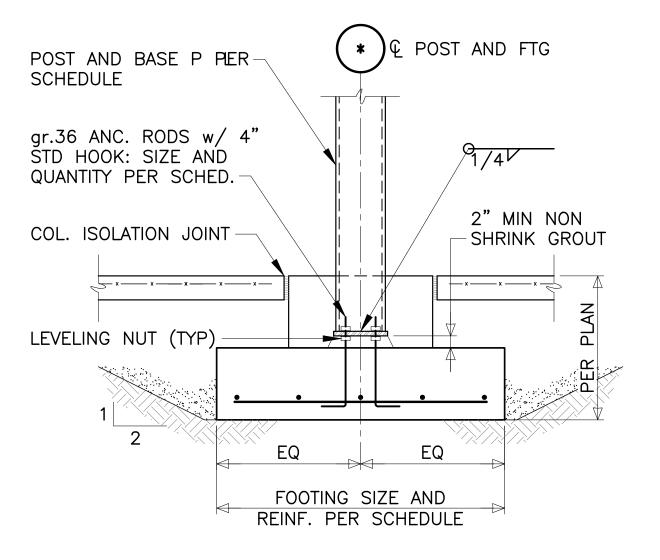
UTILITY ELEVATION IS BELOW TOP OF FOOTING, UTILIZE TYPICAL ELEVATION OF STEPPED WALL FOOTING DETAIL TO LOWER FOUNDATIONS BELOW PENETRATION.

MEP SUBCONTRACTOR TO COORDINATE WITH CONTRACTOR ALL PENETRATIONS, SLEEVES, ETC.

NO PENETRATIONS OR SLEEVES SHALL BE CORED OR FIELD CUT WITHOUT THE EXPRESS APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

IF BUNDLED UTILITIES EXCEED 24" IN WIDTH, UTILIZE TYPICAL REINFORCING at OPENING IN CONCRETE WALLS DETAIL.

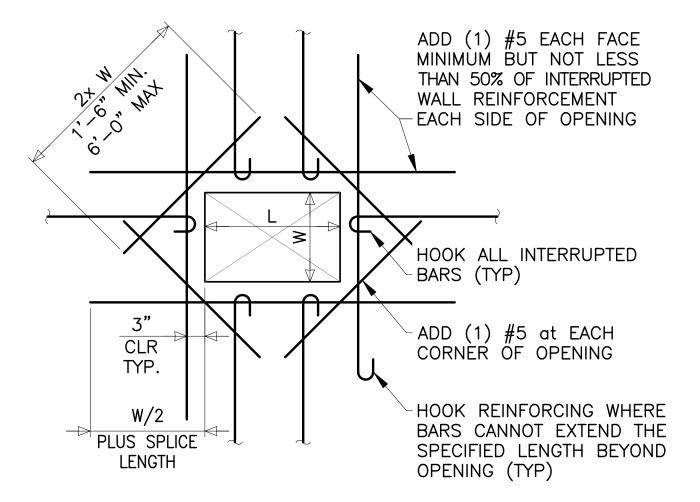
TYPICAL SLEEVE SPACE DETAIL IN FROST WALL 5



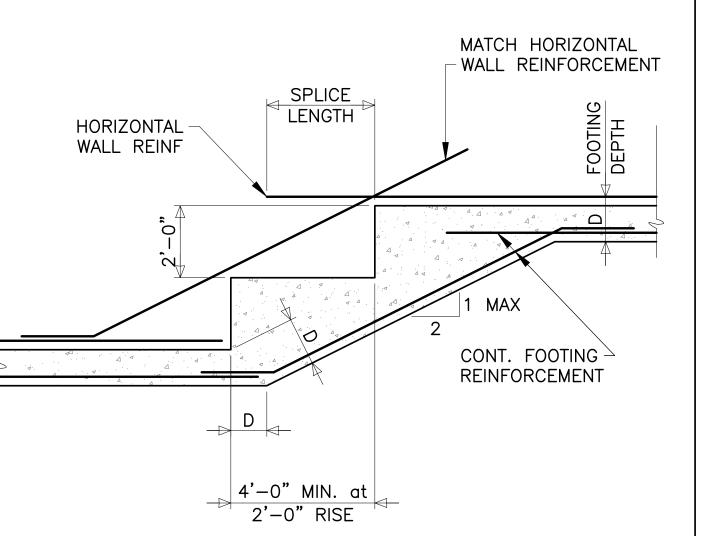
TYPICAL INTERIOR

COLUMN FOOTING DETAIL

(WITHOUT PIER)



REINFORCING at OPENINGS
IN CONCRETE WALLS
(4'-0" SQ. MAXIMUM OPENING SIZE)



ELEVATION OF STEPPED WALL FOOTING





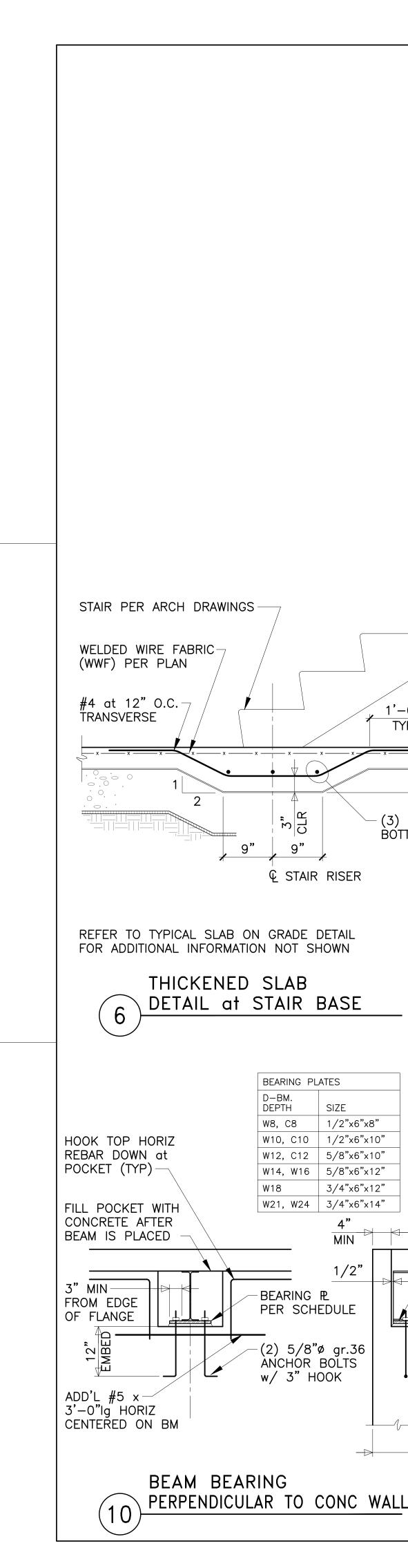
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		Pricing Set	$\overline{}$	
		Construction	$\overline{\bigcirc}$	

Sheet Number



-(3) #4 CONT

SIZE

1/2"x6"x8"

3/4"x6"x12"

1/2"

3/16

BEAM PER

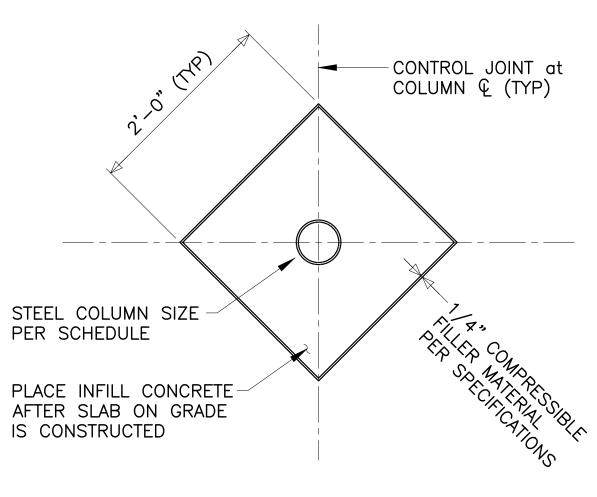
-3/4" MIN

GROUT

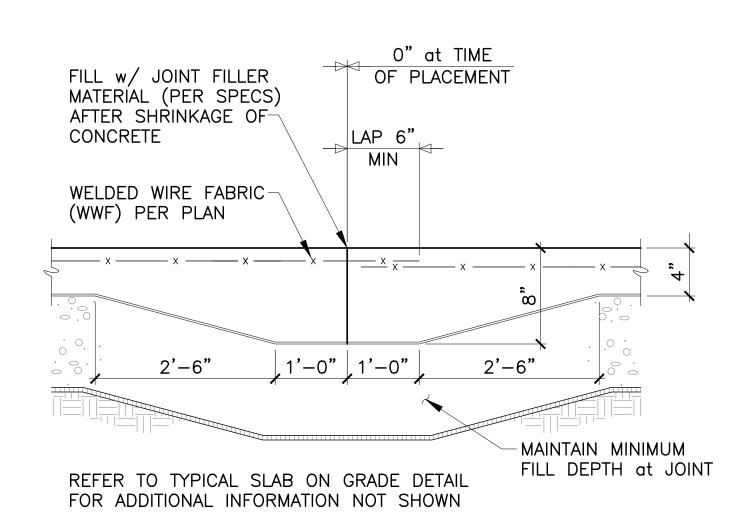
NON-SHRINK

CONC WALL

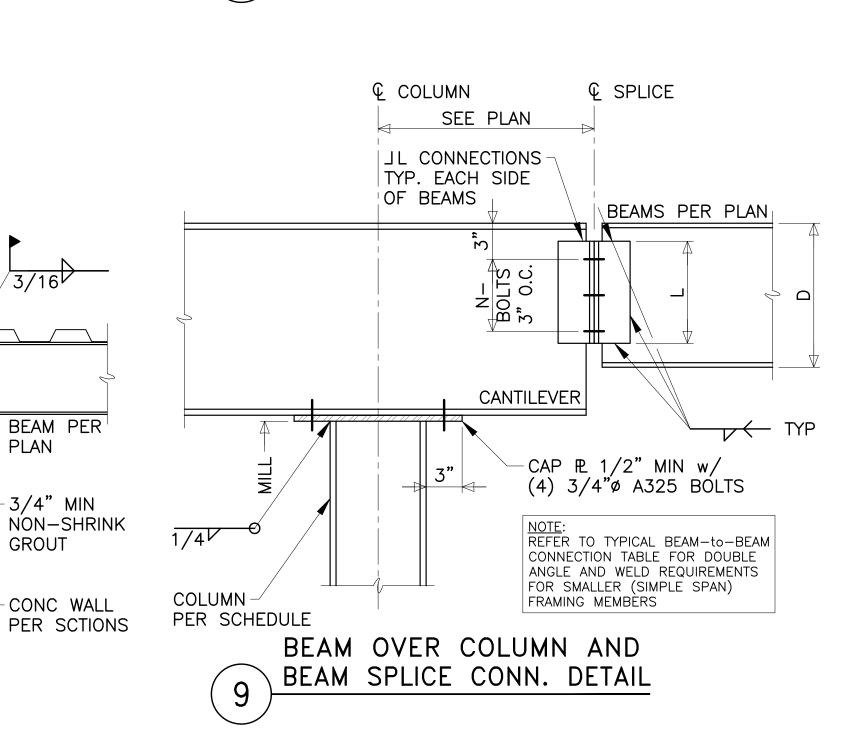
PLAN

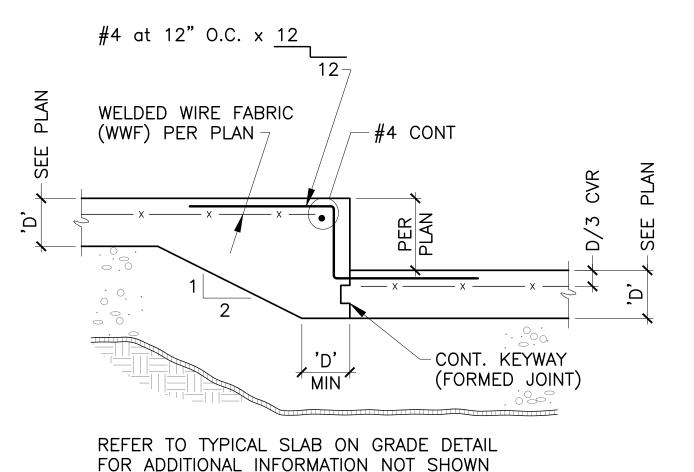


CONTROL JOINT DETAIL at COLUMN

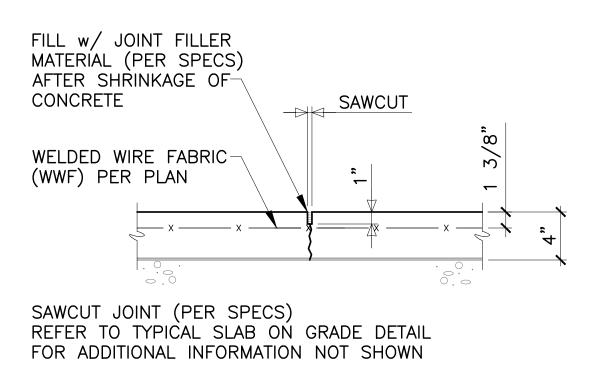


FORMED JOINT DETAIL (FJ) at SLAB ON GRADE

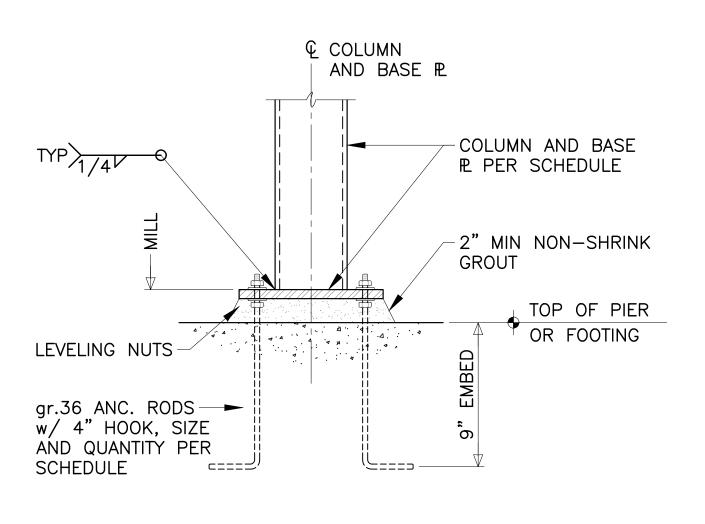




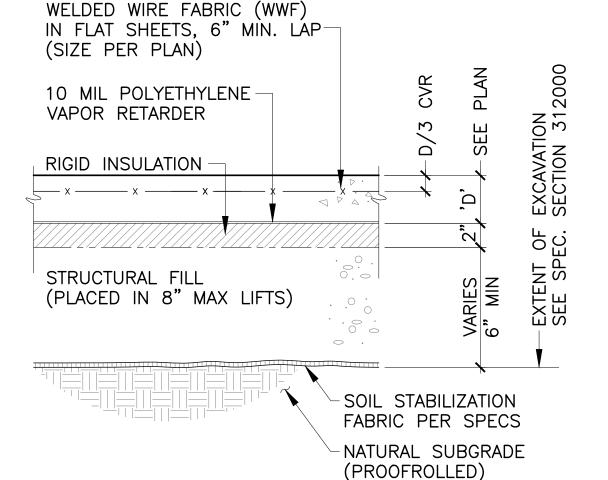
DEPRESSED SLAB ON GRADE DETAIL (DEPTH ≥ TO TOTAL SLAB THICKNESS)



SAWCUT JOINT DETAIL (SJ) at SLAB ON GRADE



COLUMN BASE DETAIL

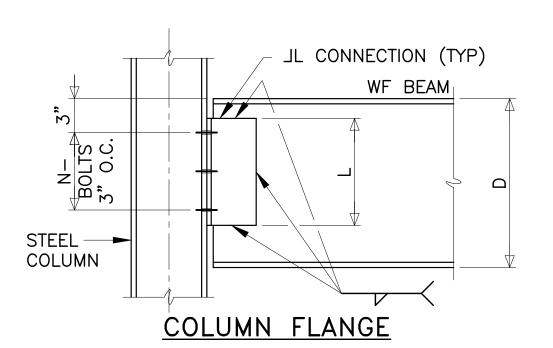


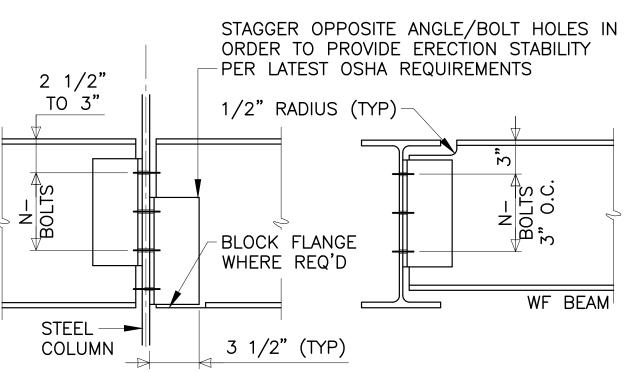
NOTE: USE OF VAPOR RETARDER REQUIRES

SMOOTH AND LEVEL IF REQUIRED

WRITTEN ASSURANCE FROM FLATWORK CONTRACTOR THAT CURLING OR CUPPED SLAB WILL BE GROUND

TYPICAL SLAB ON GRADE DETAIL FOR AREAS WITH VCT, TILE OR CARPET COORDINATE WITH ARCH DRAWINGS





BEAM WEB

D- BEAM DEPTH	L- ANGLE LENGTH (in)	(2)L4x3.5 THICKNESS (in)	WELD SIZE (in)	N- 3/4" DIA. BOLTS BOLTS IN ONE ROW	MIN. BEAM WEB THK- NESS (in)	ALLOWABLE REACTION WITH COPE (KIPS)	ALLOWABLE REACTION w/o COPE (KIPS)		
W8	5 1/2	1/4	3/16	2	3/16	10	25		
W10	5 1/2	1/4	3/16	2	3/16	15	30		
W12	5 1/2	1/4	3/16	2	3/16	25	30		
W14	8 1/2	1/4	3/16	3	1/4	50	55		
W16, W18	8 1/2	1/4	3/16	3	1/4	60	60		
W16-W24	11 1/2	1/4	3/16	4	1/4	75	75		
W18-W30	14 1/2	1/4	3/16	5	3/8	100	100		
W21-W40	17 1/2	1/4	3/16	6	3/8	125	125		
W24-W44	20 1/2	5/16	1/4	7	3/8	145	145		
W30-W44	23 1/2	5/16	1/4	8	1/2	165	165		
W33-W44	26 1/2	5/16	1/4	9	1/2	185	185		
W36-W44	W36-W44 29 1/2 5/16 1/4 10 5/8 205 205								
NOTE: TABI EXCEEDING REQUIRING	NOTE: TABLE ASSUMES A 4.5"x2" TOP FLANGE COPE. ANY BEAM WITH COPE EXCEEDING DETAIL SHOWN SHALL BE DESIGNED INDEPENDENTLY. ALL CONN'S								

COLUMN WEB

SIMPLE 'TYPE 2' BEAM-to-COLUMN AND BEAM-to-BEAM CONNECTIONS

Grand Island Residence E. River Road Grand Island, NY



Project Number: 2022-0034

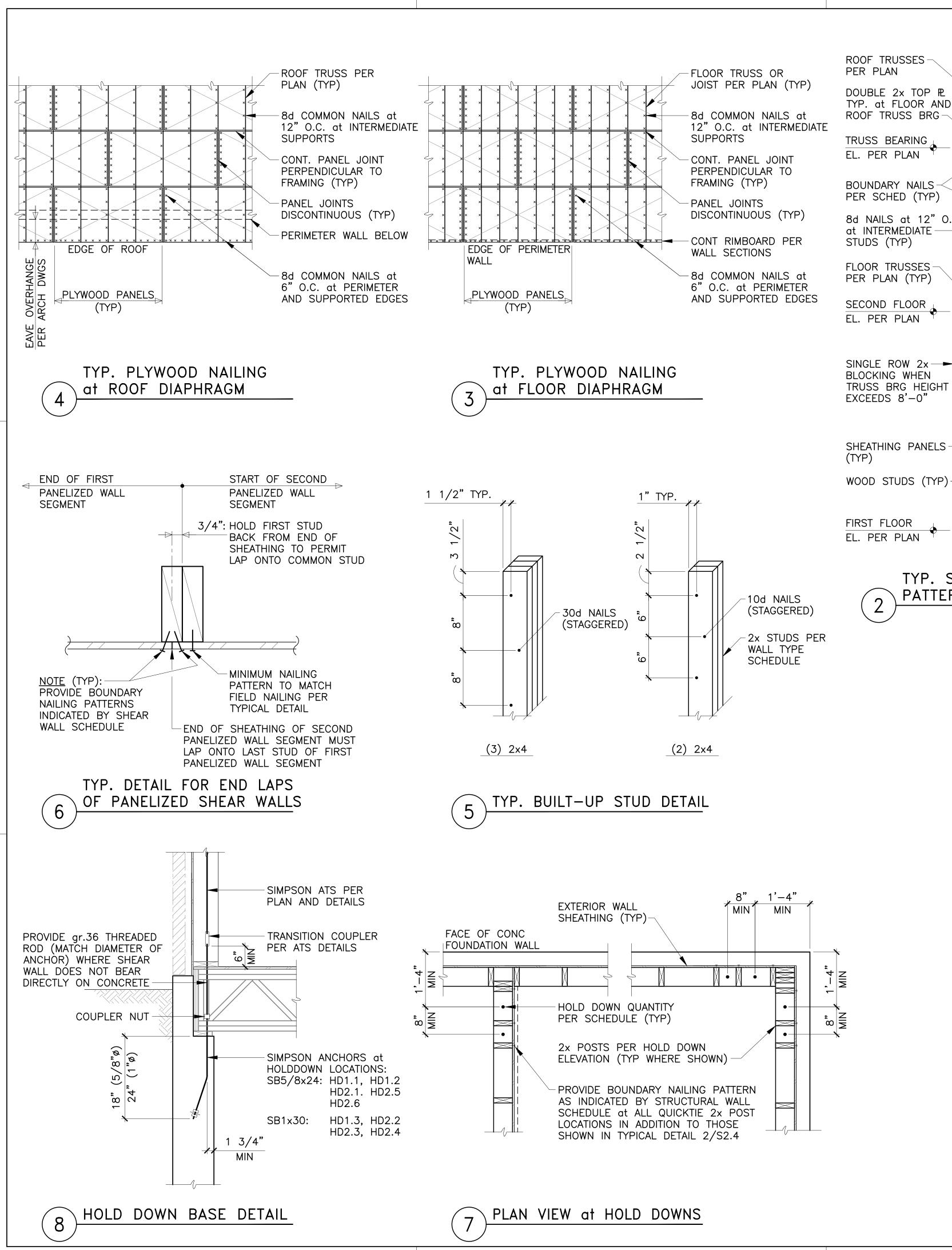


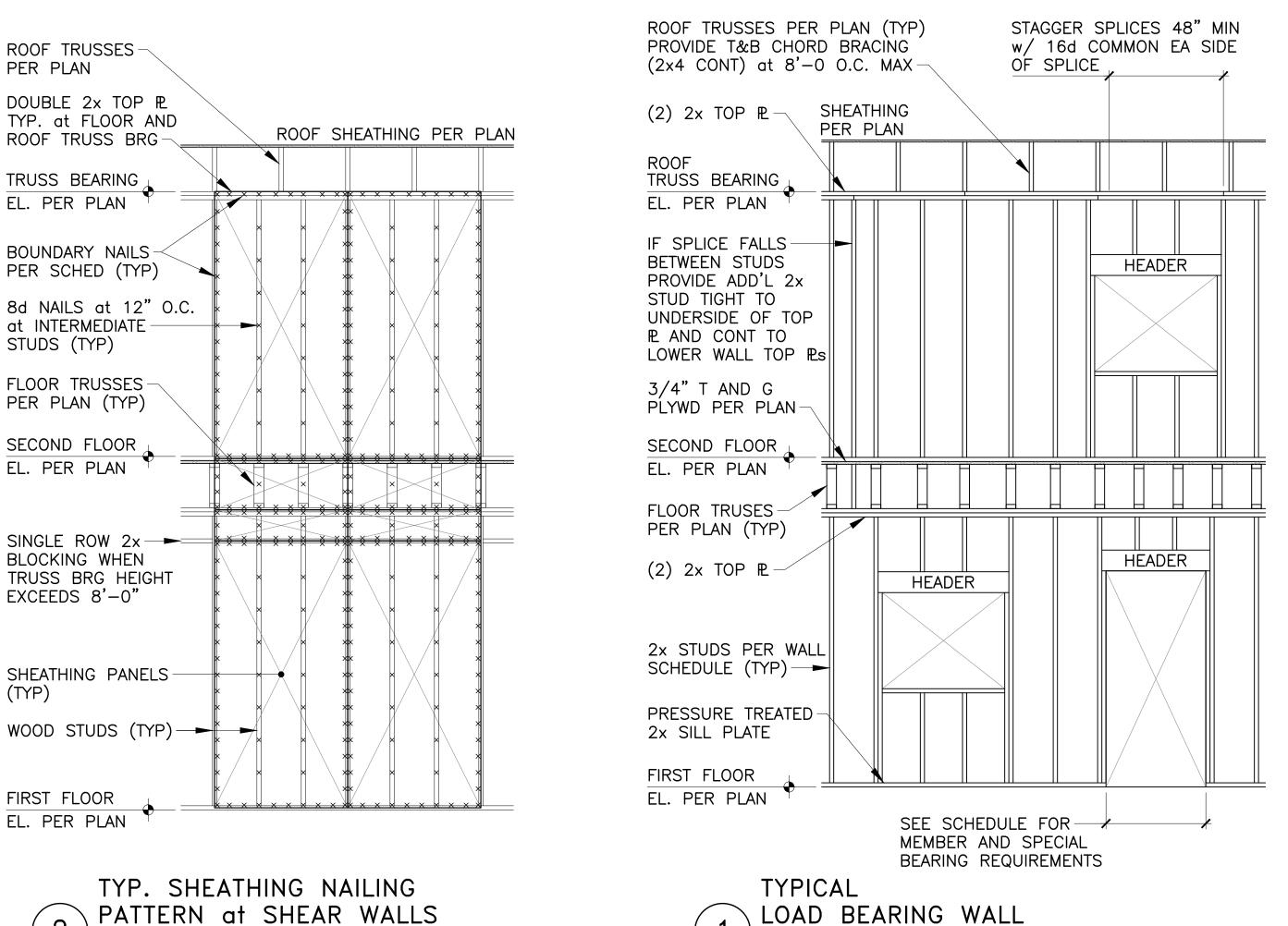
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Drawn By:	MJN	Review	$\overline{}$	
Checked By:	MJE	Pricing	$\overline{}$	
Scale:	N.T.S.	Permit Set		03.29.23
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		Construction	$\overline{}$	

Sheet Number S2.3









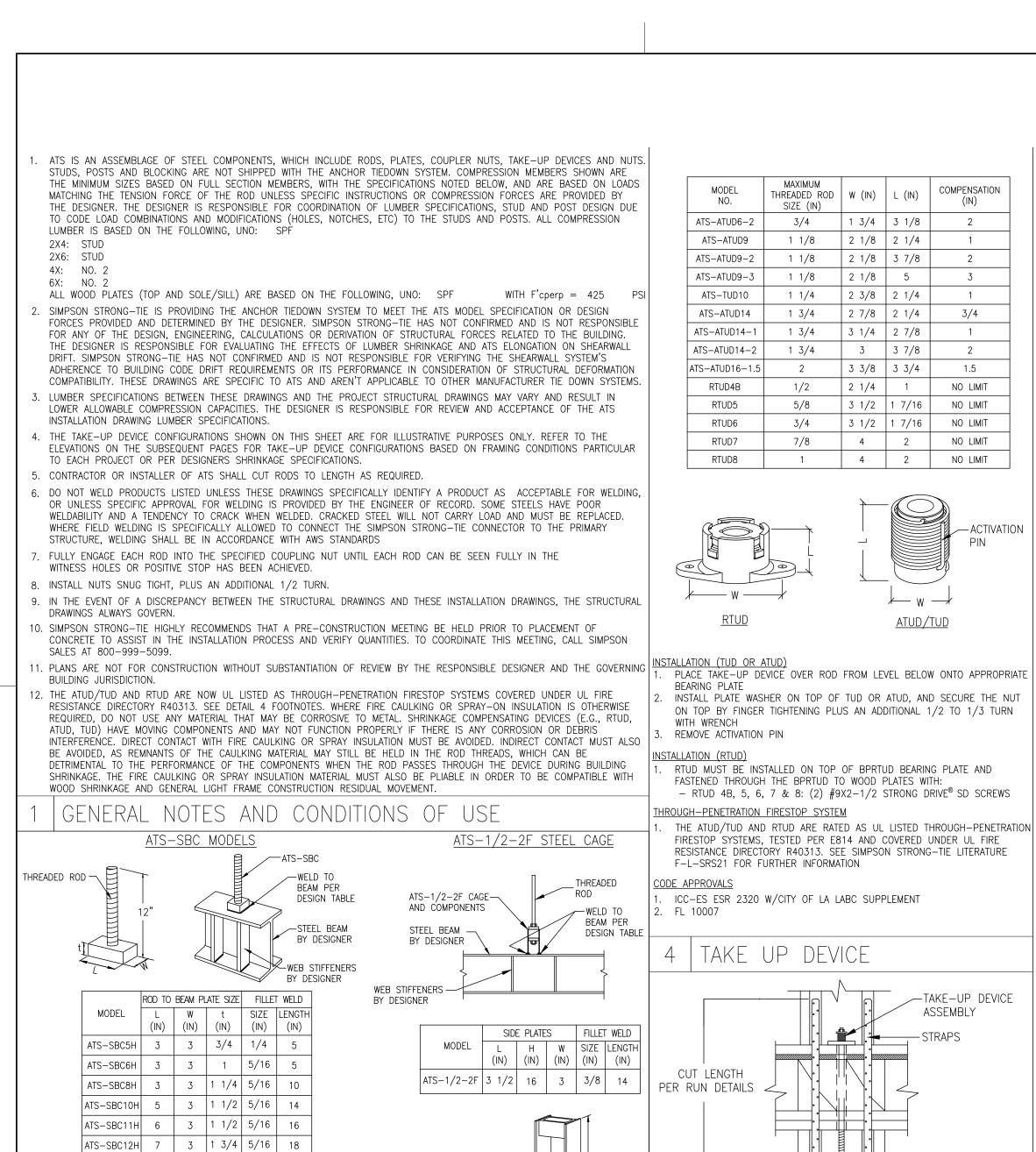
Project Number: 2022-0034



Typical Details

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Checked By:	MJE	Pricing	\bigcirc	
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		Construction	0	
Sheet Number	r			

S2.4



THE WELD LENGTH FOR THE ATS-SBC5H AND ATS-SBH6H REQUIRES ONLY TWO OPPOSING SIDES

THE WELD LENGTH FOR ATS-SBC8H UP TO THE ATS-SBC12H REQUIRES ALL FOUR SIDES OF THE

THE WELD LENGTH FOR ATS-1/2-2F CAGE REQUIRES ALL FOUR SIDES OF THE SIDE PLATES TO

ALL FILLET WELDS, F_{EXX} , TO BE GREATER THAN OR EQUAL TO 70 KSI AND TO FOLLOW GEOMETRY

-SMOOTH SHANK

STRONG-ROD

. FULLY THREADED AND STRONG-ROD IS UNCOATED OR PLAIN BLACK

2. ATS-R & ATS-SR STRONG-ROD MODEL DESIGNATION: THE NUMBERS

(i.e. ATS-SR5H-10 IS 5/8" DIAMETER BY 10 FEET LONG HIGH

3. ATR MODEL DESIGNATION: THE NUMBERS FOLLOWING ATR(#) IS THE

ATR5/8X120 IS 5/8" DIAMETER BY 120 INCHES LONG MILD STEEL

ROD ROD DIAMETER FOLLOWED BY LENGTH IN INCHES (i.e.

IN 1/8" INCREMENTS FOLLOWED BY LENGTH IN FT.

FOLLOWING ATS-R(#) & ATS-SR(#) REPRESENTS THE ROD DIAMETER

- UNC THREADS

STRENGTH ROD)

MODEL NUMBER STRONG-ROD ≠ 123456

L (ft) | L1 (ft)

3 to 5 1

6 to 12 4

OF THE PLATE TO BE FILLET WELDED FULL LENGTH LESS A 1/4" STANDOFF AT CORNERS.

PLATE TO BE FILLET WELDED WITH FULL LENGTH LESS A 1/4" STANDOFF AT CORNERS.

BEAM CONNECTION

STRONG-ROD

MODEL NO.

ATS-SR5H

ATS-SR6H

ATS-SR7H

ATS-SR8H

ATS-SR9H

ATS-SR10H

ATS-SR11H

ATS-SR12H

ATS-SR14H

ATS-SR16H

BE FILLET WELDED WITH FULL LENGTH.

AND STANDARDS PER AISC AND AWS.

FULL THREAD

MODEL NO.

ATS-R4 or ATR1/2

ATS-R5 or ATR5/8

ATS-R6 or ATR3/4

ATS-R7 or ATR7/8

ATS-R8 or ATR1

1 1/8 | ATS-R9 or ATR1-1/8

1 1/4 ATS-R10 or ATR1-1/4

1 3/8 ATS-R11 or ATR1-3/8

1 1/2 | ATS-R12 or ATR1-1/2

1 3/4 ATS-R14 or ATR1-3/4

ATS-R16 or ATR2

HIGH STRENGTH ROD

ATS-HSR5

ATS-HSR6

ATS-HSR7

ATS-HSR8

ATS-HSR9

ATS-HSR10

ATS-HSR11

ATS-HSR12

ATS-HSR14

ATS-HSR16

ATS-HSSR9

STRONG-ROD

ATS-HSSR10

MILD STEEL ROD

ROD DIA.

(IN)

1/2

5/8

3/4

7/8

3/4

7/8

1 1/8

1 1/4

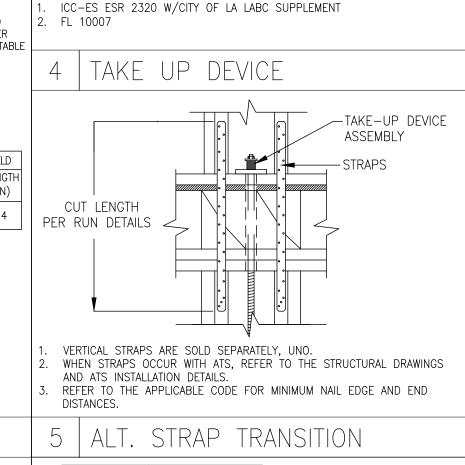
1 3/8

1 1/2

1 3/4

1 1/8

1 1/4



MAXIMUM

3/4

1 1/8

1 1/8

1 1/8

1 1/4

1 3/4

1 3/4

1 3/4

1/2

5/8

7/8

ATS-ATUD6-2

ATS-ATUD9

ATS-ATUD9-2

ATS-ATUD9-3

ATS-TUD10

ATS-ATUD14

ATS-ATUD14-1

ATS-ATUD14-2

ATS-ATUD16-1.5

RTUD4B

RTUD5

THREADED ROD | W (IN)

1 3/4 | 3 1/8 |

2 1/8 | 2 1/4

| 2 1/8 | 3 7/8 |

2 3/8 | 2 1/4

| 2 7/8 | 2 1/4 |

3 | 3 7/8

3 3/8 | 3 3/4 |

4 2

3 1/2 | 1 7/16 | NO LIMIT

3 1/2 | 1 7/16 | NO LIMIT

2

3 1/4 | 2 7/8

3/4

1.5

COUPLER +

NUT

DETAILS

FLOOR LEVEL

<u>FOUNDATION</u>

STRONG-TIE PRIOR TO SHIPMENT OF RODS

HIGH

STRENGTH

ATS-HSC55

HSCNW3/4

ATS-HSC77

ATS-HSCW1

ATS-HSC99

MILD STEEL

CNW1/2

CNW5/8

CNW3/4

CNW7/8

CNW1

ATS-C99

INSTALLATION DETAIL

NO LIMIT

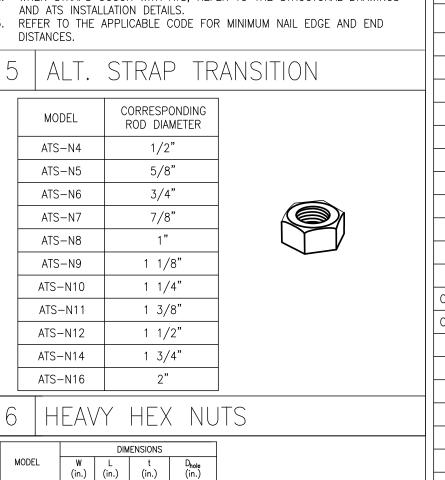
NO LIMIT

NO LIMIT

-ACTIVATION

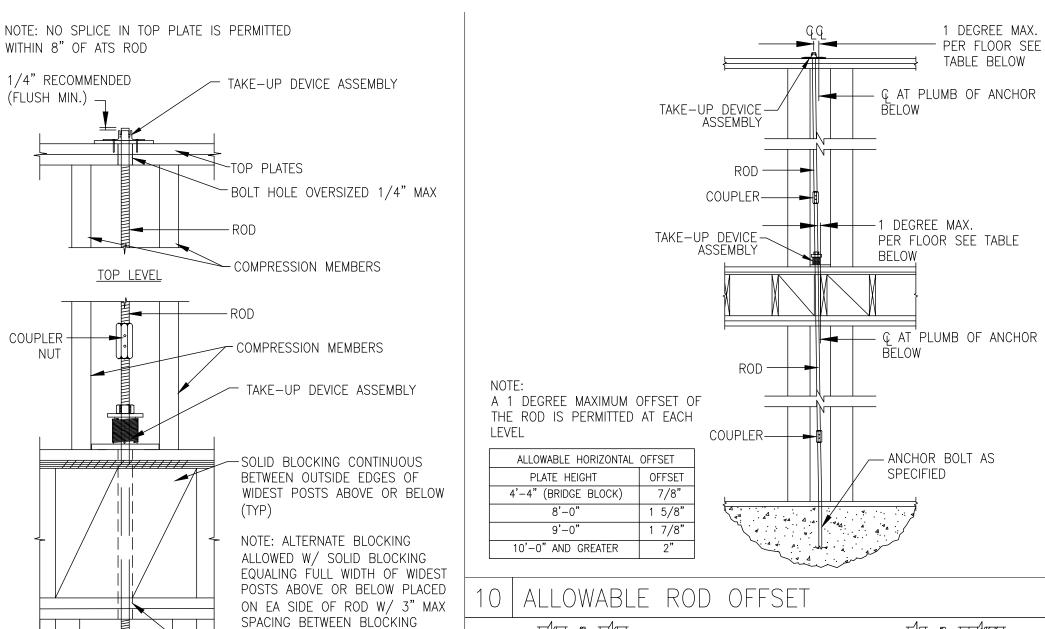
2 1/8

2 1/4



		-113		3/0			CNW1 1/4	ATS-HSC1010	1 1/4 TO 1 1/4	3
		-N6		3/4			ATS-C1111	ATS-HSC1111	1 3/8 TO 1 3/8	3 1/4
		-N7		7/8			_	ATS-HSC1212	1 1/2 TO 1 1/2	3 1/2
		-N8		1"			_	ATS-HSC1414	1 3/4 TO 1 3/4	4
		-N9		1 1/			_	ATS-HSC1616	2 TO 2	4 1/2
		-N10		1 1/			CNW5/8-1/2	ATS-HSC54	5/8 TO 1/2	1 5/8
		-N11		1 3/			CNW3/4-5/8	ATS-HSC65	3/4 TO 5/8	1 7/8
		-N12		1 1/			ATS-C76	ATS-HSC76	7/8 TO 3/4	2 1/8
		-N14		1 3/ 2"			CNW1-7/8	ATS-HSC87	1 TO 7/8	2 3/8
	AIS-	-N16					ATS-C98	ATS-HSC98	1 1/8 TO 1	2 5/8
6	$\mid H \mid$	EAV	/Y	HEX	(NL	ITS	ATS-C109	ATS-HSC109	1 1/4 TO 1 1/8	2 7/8
			DIM	ENSIONS	7		ATS-C1110	ATS-HSC1110	1 3/8 TO 1 1/4	3 1/8
	MODEL	W	L	t	D _{hole}		_	ATS-HSC1211	1 1/2 TO 1 3/8	3 3/8
	BP 1/2	(in.) 2	(in.) 2	(in.) 9/64	(in.) 9/16		_	ATS-HSC1412	1 3/4 TO 1 1/2	3 3/4
l	BP 5/8	2	2	9/64	11/16	×	_	ATS-HSC1614	2 TO 1 3/4	4 1/4
l	3/4-3	3	3	1/4	13/16	W Sel		Units (Ex: 9	in 1/8" Increments = 9/8 OR 1 1/8")	ATS-HSCS
BF	7/8-R	3	3	5/16	15/16			•	, , ,	GRADĖ; C OR CI
В	P 1-3	3	3	3/8	1 1/16			S AND INSTALLA		HSC OR
BF	1-1/4	3	3	3/8	1 5/16	DHOLE	2. ADDITIONAL	COUPLER NUTS S	TIL EACH ROD CAN BE SIZES INCLUDING OVER	SIZED THREA
BF	1-1/2	3	3	3/8	1 9/16		THIS DETAI	L FOR ITEMS NOT		
BF	1-3/4	3	3	3/8	1 13/16	·			M DIMENSIONS — FOR 2ND DIAMETER + 1/2	
	BP 2	3 1/4	3 1/4	3/8	2 1/16			ÀSCNW MODELS L W MODELS ARE LI	ISTED ABOVE AS APPLI STED IN INCHES	CABLE - RO

PLATE WASHERS



-BOLT HOLE: OVERSIZED 1/4"

- COMPRESSION MEMBERS

ANCHOR FOR TENSION ONLY

CONTACT WITH SILL

FOUNDATION AND REINFORCING BY

↓ ANCHOR BOLT AS SPECIFIED

- OVERSIZE SILL HOLE TO AVOID

COUPLER

- DESIGNER

SIMPSON STRONG-TIE ASSUMES 6" MINIMUM ANCHOR BOLT PROJECTION TO

OTHERWISE BY THE DESIGNER. IF THIS VARIES, COORDINATE WITH SIMPSON

ROD DIA

1/2 TO 1/2

5/8 TO 5/8

3/4 TO 3/4

7/8 TO 7/8

1 TO 1

ADDITIONAL COUPLER NUTS SIZES INCLUDING OVERSIZED THREADS (OST) FOR

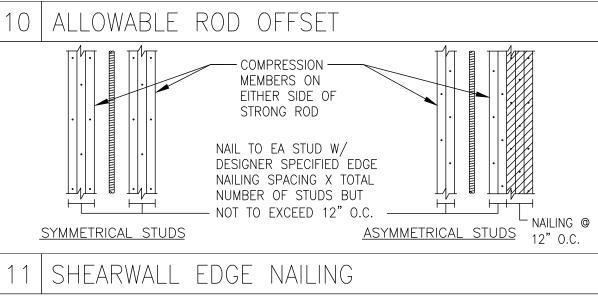
1/8 TO 1 1/8 | 2 3/4

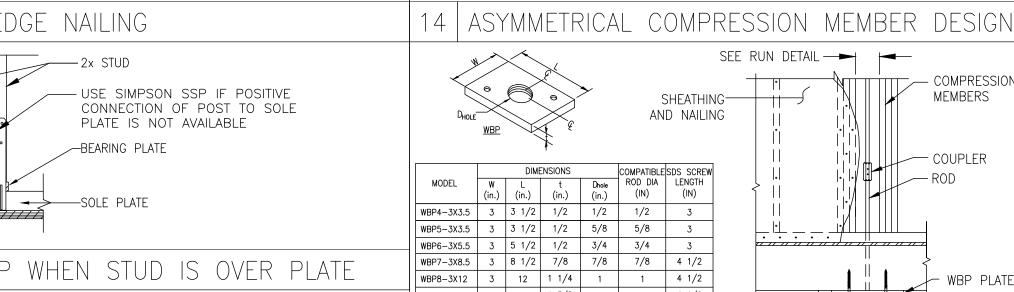
ATS-HSC98

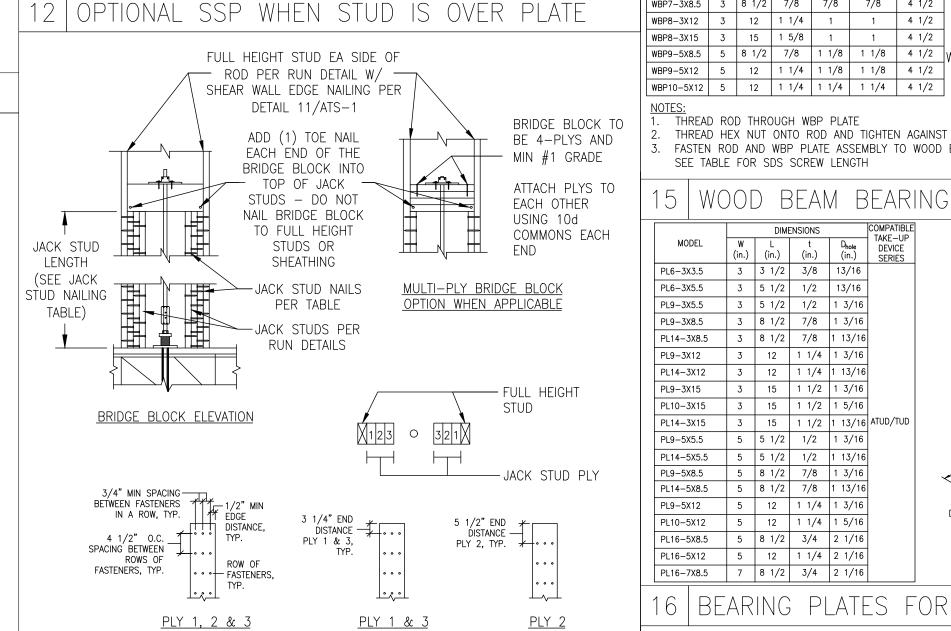
-2ND DIAMETER

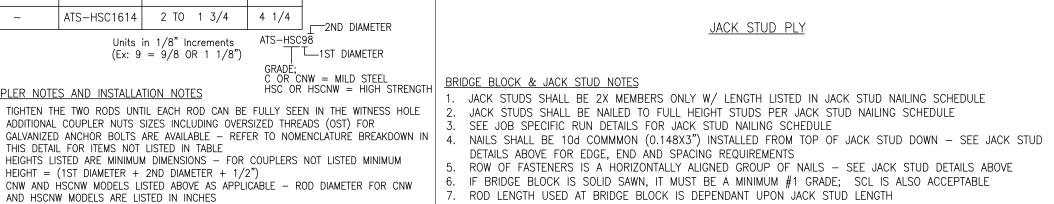
[™]1ST DIAMETER

DETERMINE ROD LENGTHS ABOVE CONCRETE SURFACE UNLESS NOTED



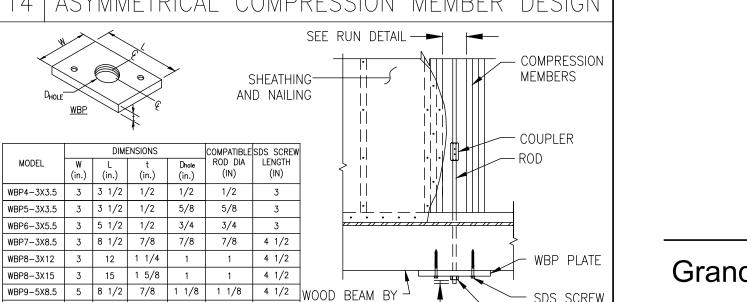






PLY 1, 2 & 3

13 BRIDGE BLOCK DETAIL



DESIGNER

END STUD SEE RUN, INTERIOR STUDS

| DETAIL |

TOP LEVEL W/ BRIDGE BLOCK TOP PLATE DETAIL

(3) 2x4

(4) 2x4

(5) 2x4

(7) 2x4

(8) 2x4

(10) 2x4

(9) 2x4

2. 2x6 MEMBERS SIMILAR

ASYMMETRICAL STUD CONVERSION

SYMMETRICAL ASYMMETRICAL CONFIGURATION

LAYOUT END OF WALL INTERIOR SIDI

(2) 2x4

. SYMMETRICAL LAYOUT CONFIGURATIONS ARE THE

NUMBER OF COMPRESSION MEMBERS REQUIRED ON EACH SIDE OF ROD.

(2) 2x4 (2) 2x4

(6) 2x4 (2) 2x4

(11) 2x4 (2) 2x4

(12) 2x4 (2) 2x4

(1) 2x4

(2) 2x4

(4) 2x4

(6) 2x4

(8) 2x4

(10) 2x4

(12) 2x4

(16) 2x4

(18) 2x4

(20) 2x4

(22) 2x4

SDS SCREW

BRIDGE BLOCK ----

MAXIMUM SPACING BETWEEN END STUDS AND INTERIOR STUDS SHALL NOT EXCEED SPACING SPECIFIED IN

BRIDGE BLOCK TERMINATIONS SHALL USE TWO END STUDS AT THE UPPERMOST LEVEL WHEN A SINGLE JACK

IS SPECIFIED AND SHALL USE ONE END STUD IF A DOUBLE JACK IS SPECIFIED (SEE JOB SPECIFIC RUN

ADDITIONAL LUMBER SHOULD BE ADDED AT THE UPPERMOST LEVEL AS NEEDED FOR END OF WALL FRAMING

AT ANY FLOOR LEVEL, A MAXIMUM OF 6 ADDITIONAL STUDS MAY BE USED AT THE INTERIOR STUDS AS

JACK STUDS

BOTTOM LEVEL STUDS SEE DETAIL 7

INTERIOR STUDS - SEE TABLE

TOP PLATE AND STRAP TERMINATIONS SHALL USE TWO END STUDS ALL LEVELS

A MINIMUM OF ONE INTERIOR STUD IS REQUIRED AT ALL LEVELS

COMPARED TO THE INTERIOR STUD PACK ABOVE

SEE DETAIL 11 FOR SHEAR WALL EDGE NAILING

DETAILS FOR JACK SPECIFICATIONS); ALL OTHER LEVELS SHALL USE TWO END STUDS

∕—ROD

ASYMMETRICAL COMPRESSION MEMBER RULES

JOB SPECIFIC RUN DETAILS

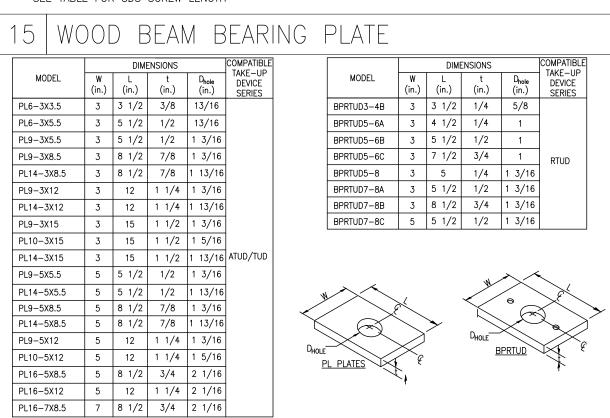
END STUDS SEE RUN INTERIOR STUDS

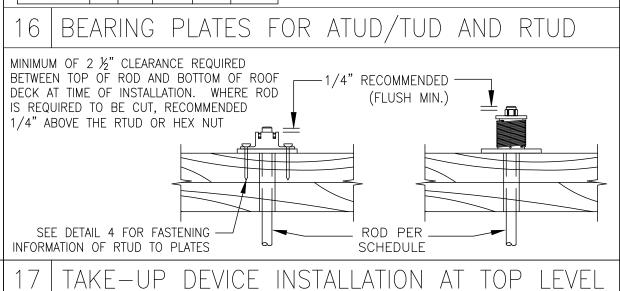
ROD - | | -

COUPLER - | | -

COUPLER -

/4" RECOMMENDED -(FLUSH MIN.) THREAD ROD THROUGH WBP PLATE THREAD HEX NUT ONTO ROD AND TIGHTEN AGAINST WBP PLATE FASTEN ROD AND WBP PLATE ASSEMBLY TO WOOD BEAM WITH (2) SDS SCREWS (PROVIDED AS A KIT); SEE TABLE FOR SDS SCREW LENGTH





bbaworld.com Consultant: tredo

Typical Simpson ATS Hold

Date Issued For: Drawn By: MJN Review Checked By: MJE Pricing 03.29.23 Scale: N.T.S. Permit Set Pricing Set Construction Sheet Number

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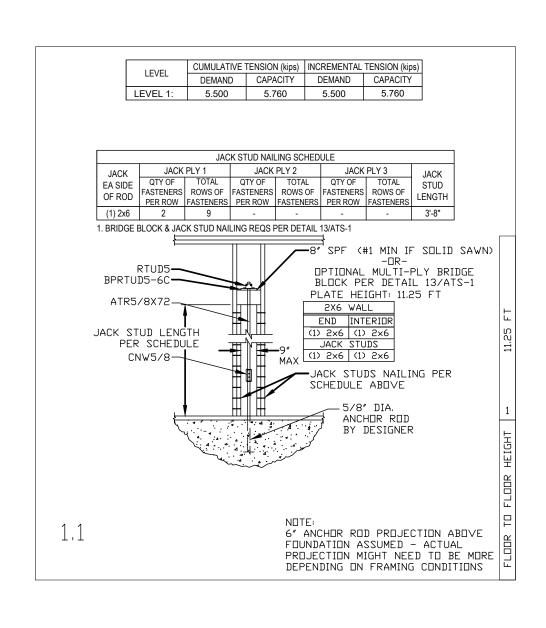


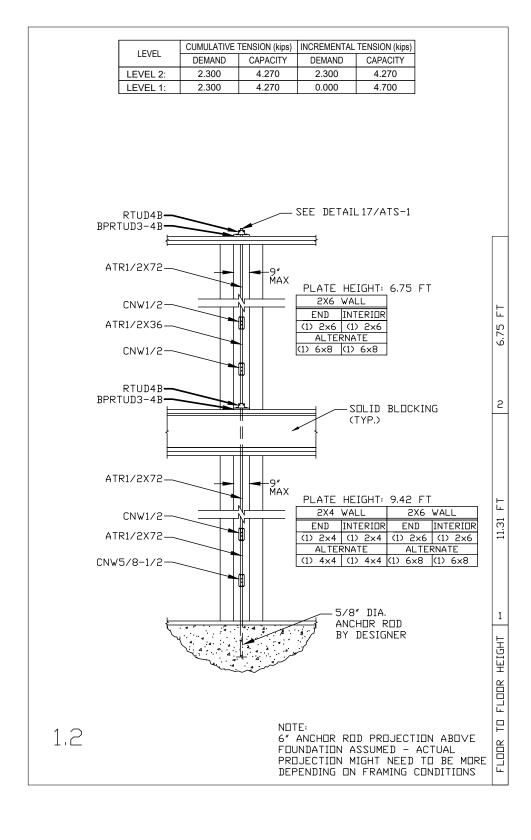


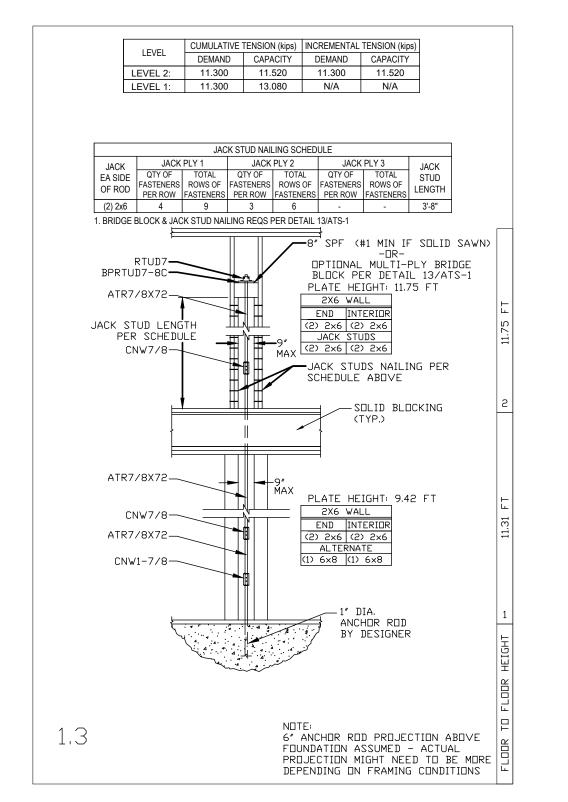
Down and Achorage Details

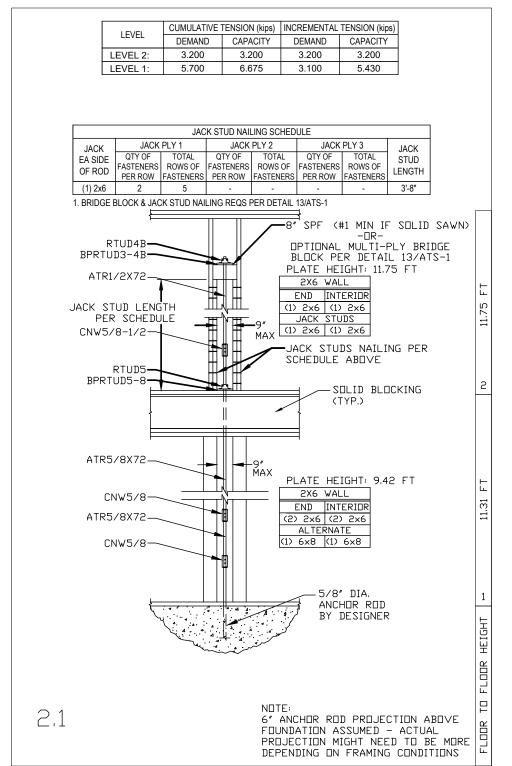
T.E. Project No. 22-27 Buffalo, New York 142 716.876.7147 ph

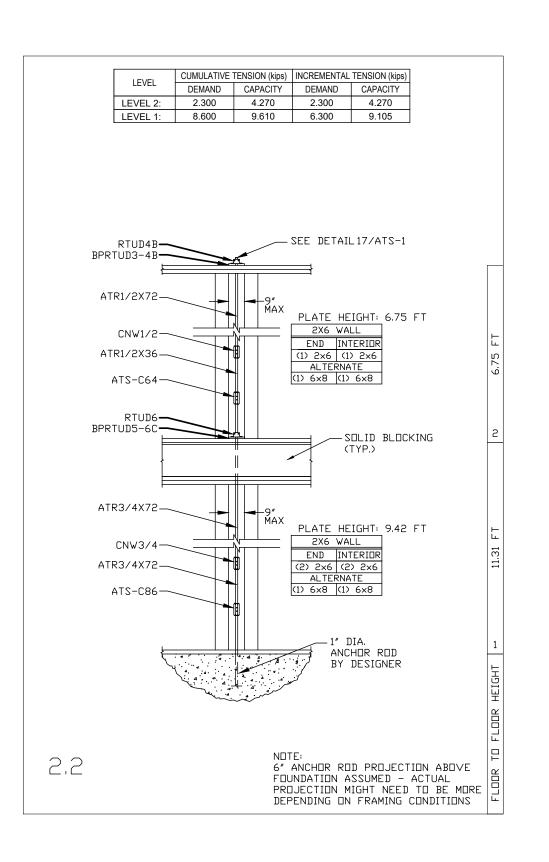
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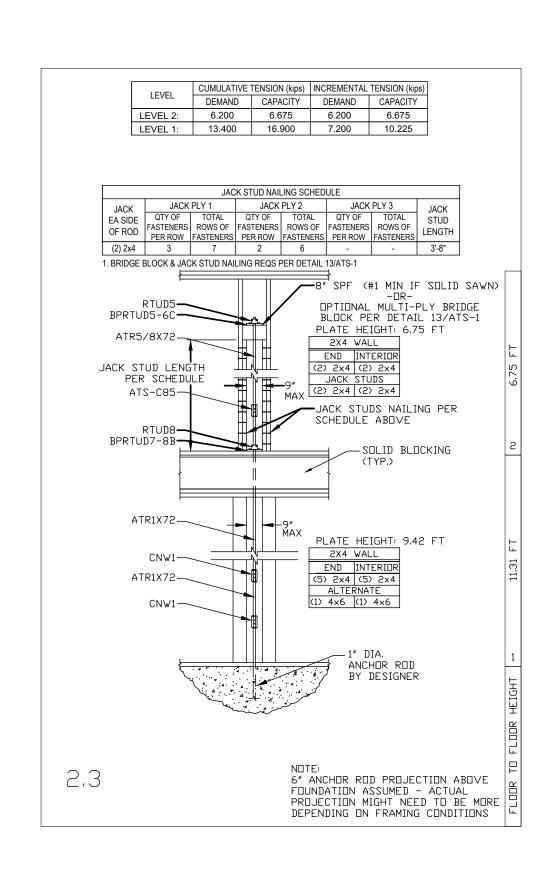


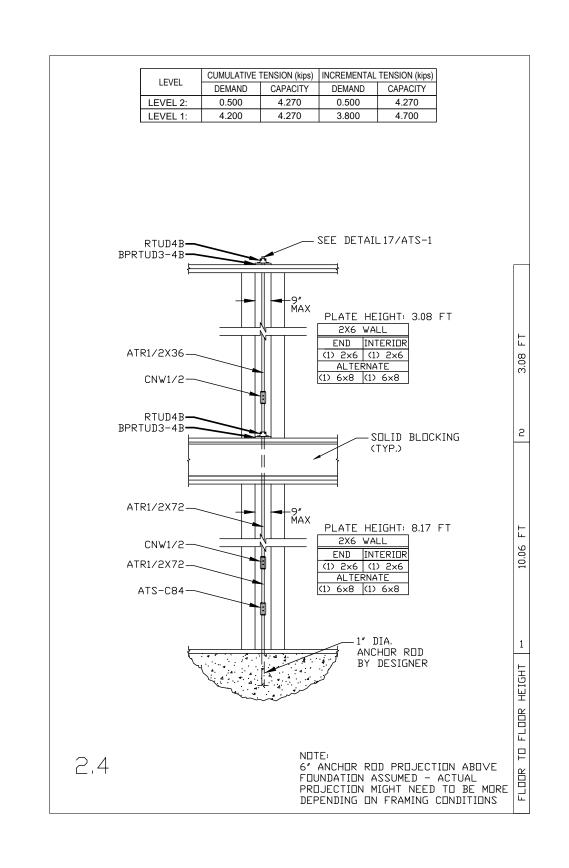


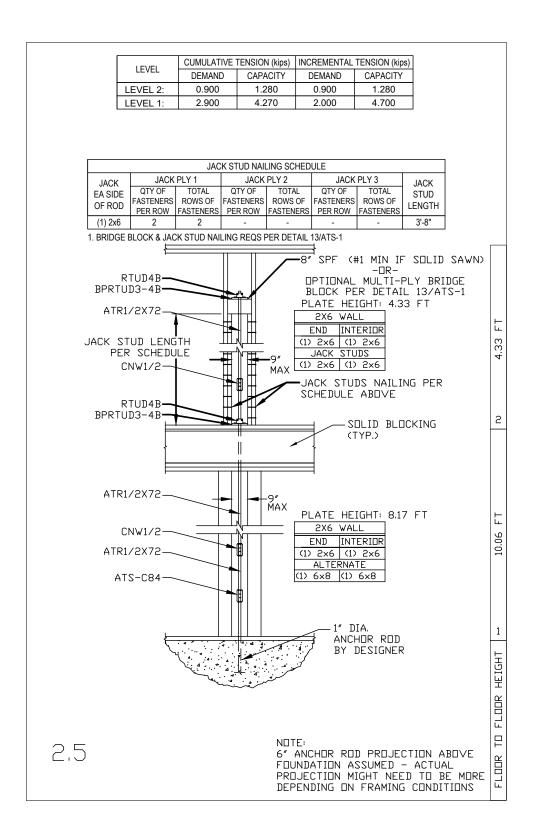


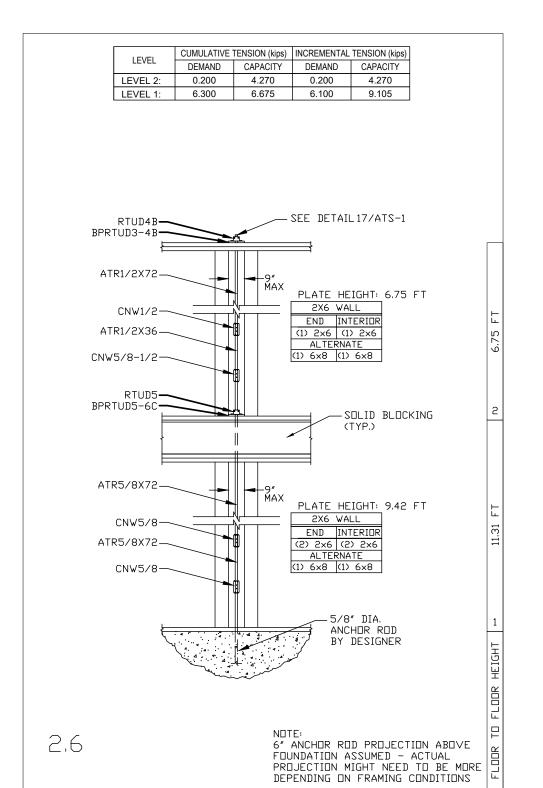


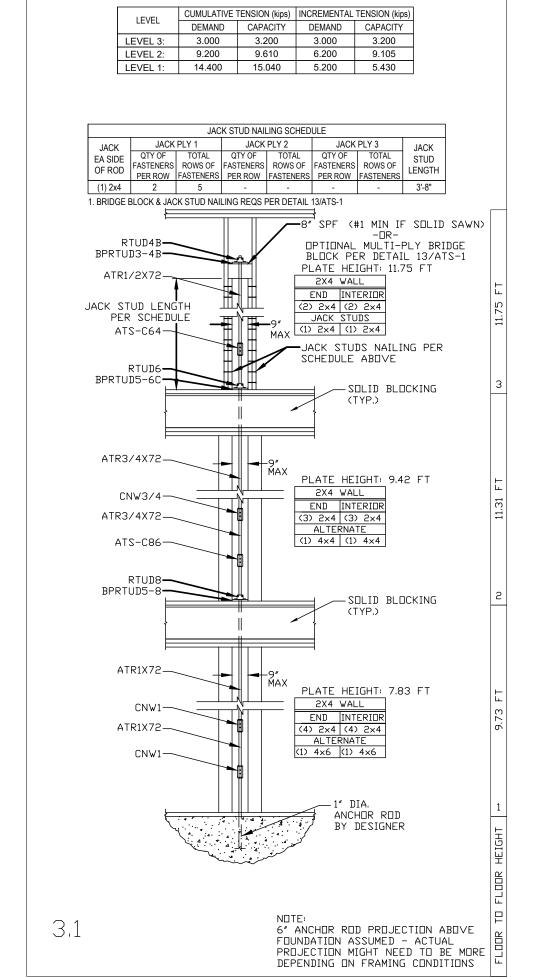












Grand Island Residence E. River Road Grand Island, NY



Project Number: 2022-0034

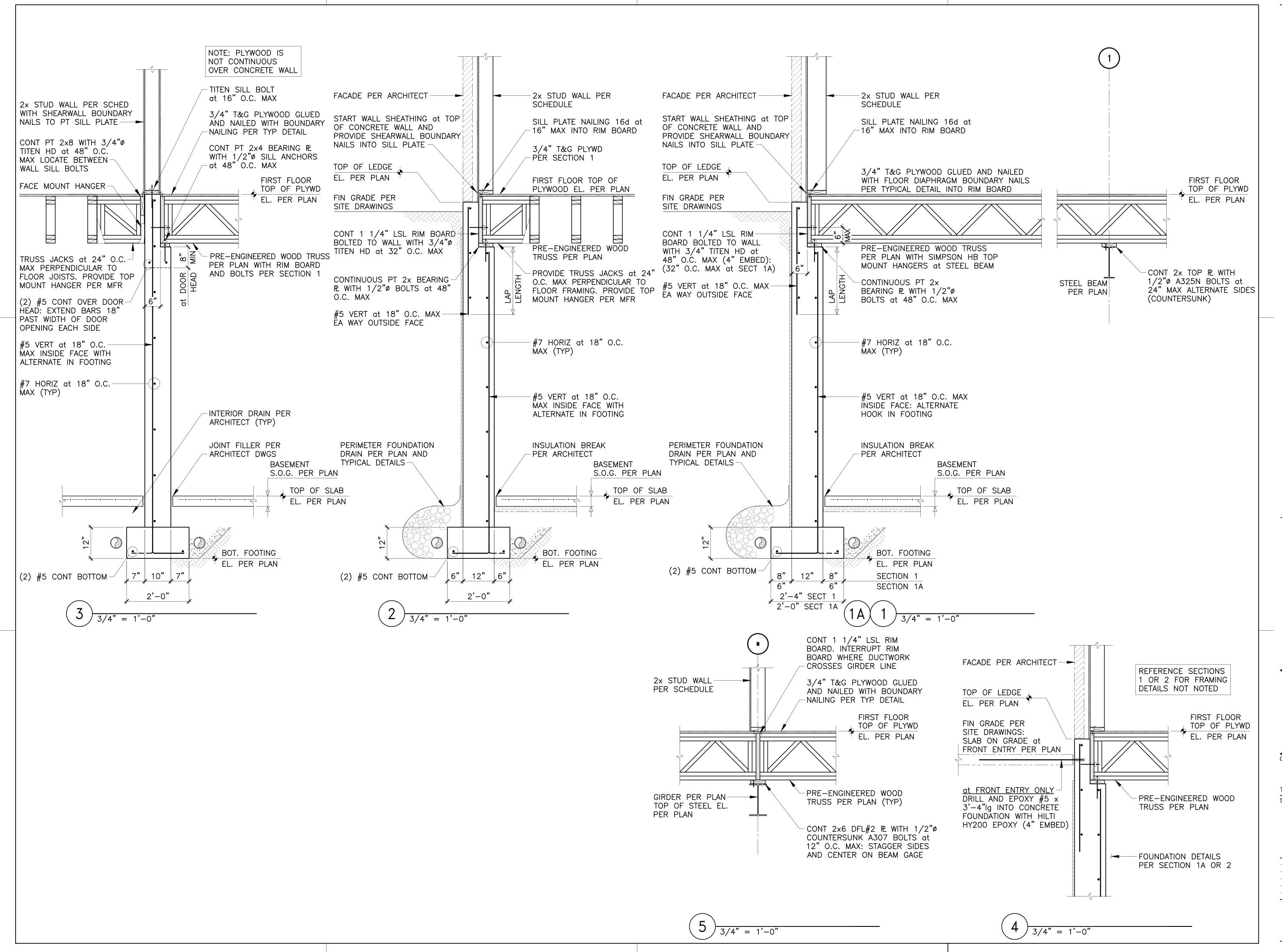


Typical Simpson ATS Hold Down and Achorage Details

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Project No.		Issued For:		Date
Drawn By:	MJN	Review	$\overline{\bigcirc}$	
Checked By:	MJE	Pricing	\bigcirc	
Scale:	N.T.S.	Permit Set	\bigcirc	03.29.2
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		Construction	\circ	
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S2 6



Grand Island Residence E. River Road Grand Island, NY

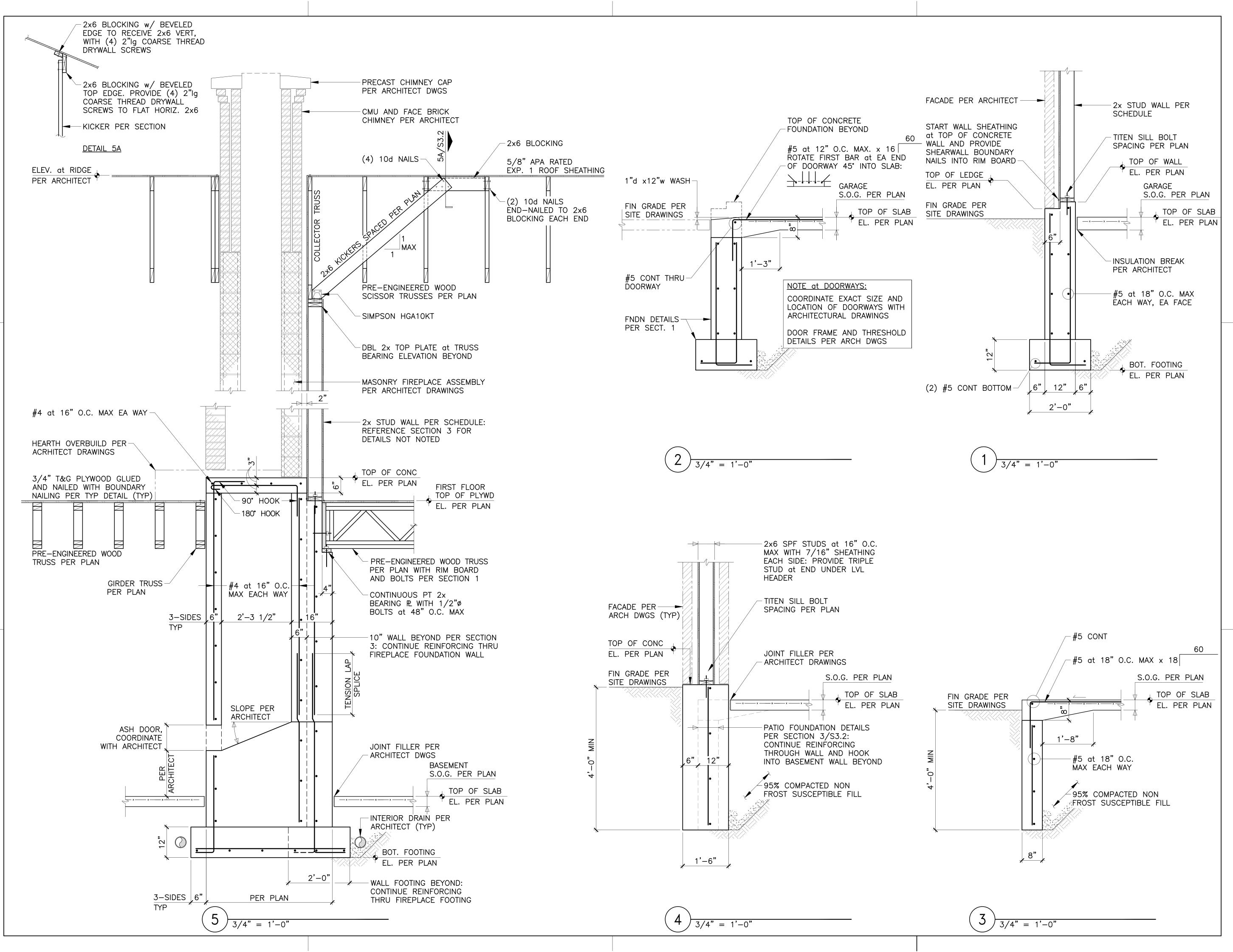




Sections and Details

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S3.1







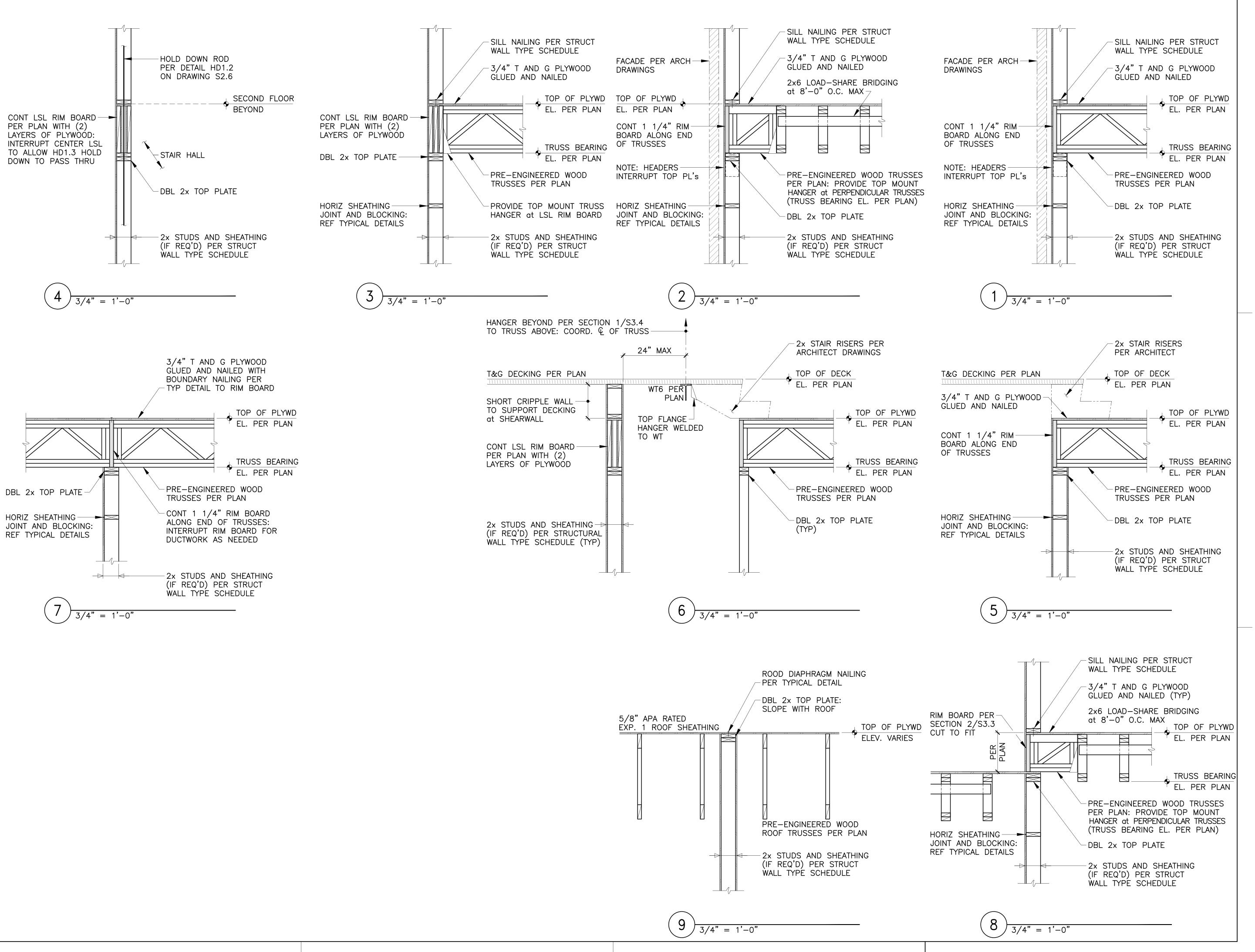
Project Number: 2022-0034



Sections and Details

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S3.2





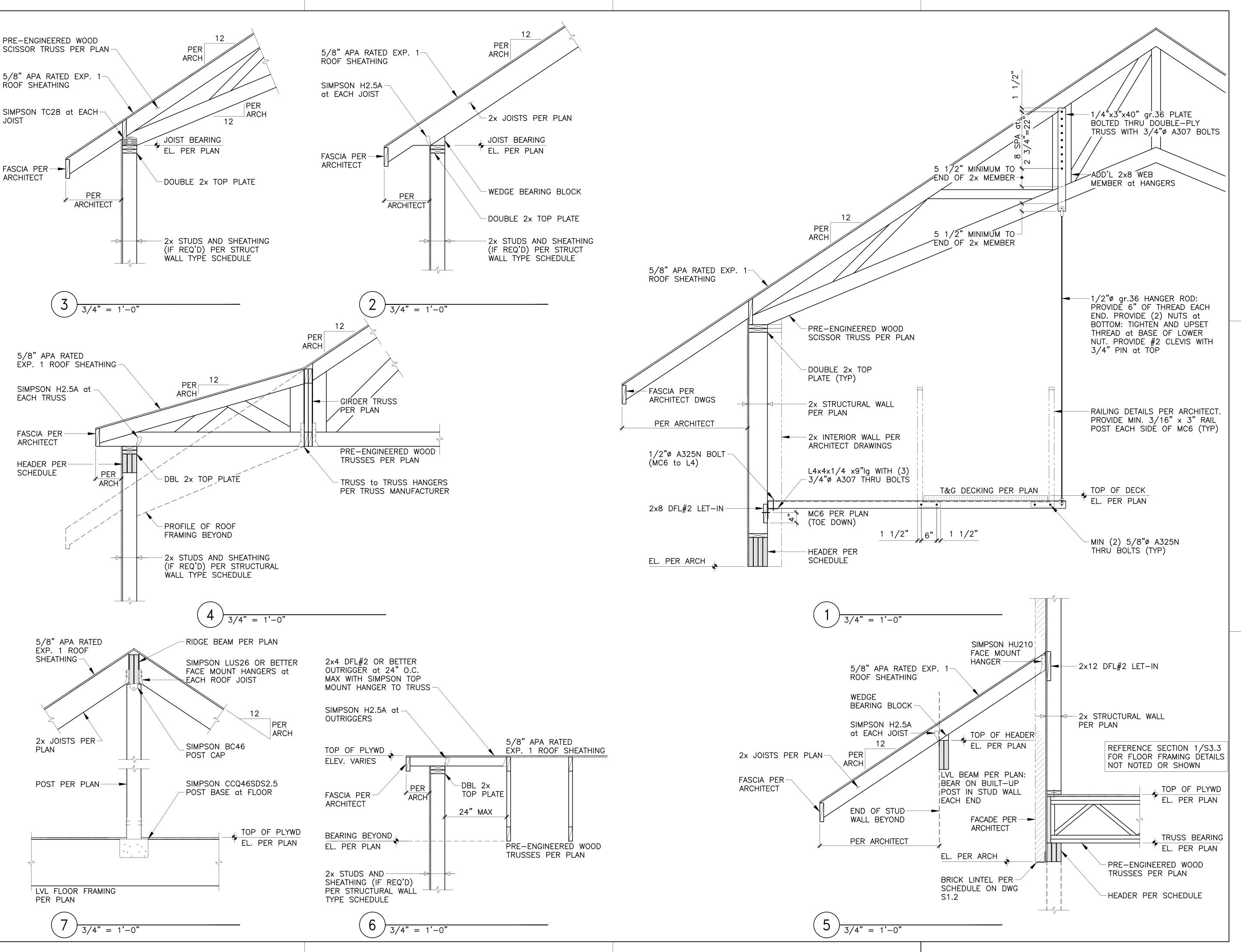




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Checked B	By: MJE	Pricing	$\overline{}$	
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		Pricing Set	$\overline{\bigcirc}$	
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S3.3



Grand Island Residence
E. River Road
Grand Island, NY



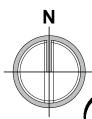
Project Number: 2022-0034



Sections and Details

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ı	Checked	Ву:	MJE	Pricing	\circ	
ı	Scale:	AS N	OTED	Permit Set		03.29.23
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ı				Construction	0	
ı	Sheet Nu	mber				

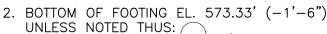
S3.4



FOUNDATION/BASEMENT PLAN

3/16" = 1'-0"

1. TOP OF FINISHED FLOOR SLAB EL. 574.83' (-9'-8" BELOW FINISHED FIRST FLOOR EL.)



3. FS INDICATES STEPPED WALL FOOTING AS PER TYPICAL DETAIL

- 4. SJ AND FJ INDICATE SLAB CONTROL JOINTS AS PER TYPICAL DETAILS
- 5. HD INDICATES APPROXIMATE LOCATION OF SIMPSON ATS HOLD DOWN AND ANCHORAGE: REF. SHEAR WALL ANCHORAGE SCHEDULE AND TYPICAL DETAILS PROVIDE SIMPSON PAB-18 at HD3.1 LOCATIONS
- 6. * INDICATES ADDITIONAL SLAB REINFORCING #4 x 24" g at TOP OF SLAB
- 7. COORDINATE UNDERSLAB PLUMBING AND RADON MITIGATION (BY OTHERS) WITH MEP DRAWINGS

tredo

755 Seneca Street Suite 202 Buffalo, New York 14210 716.876.7147 ph 716.876.0667 fax Grand Island Residence
E. River Road
Grand Island, NY

TITLE

REVISED ELEVATIONS at FOUNDATION / BASEMENT

REF. DRAWING \$1.0



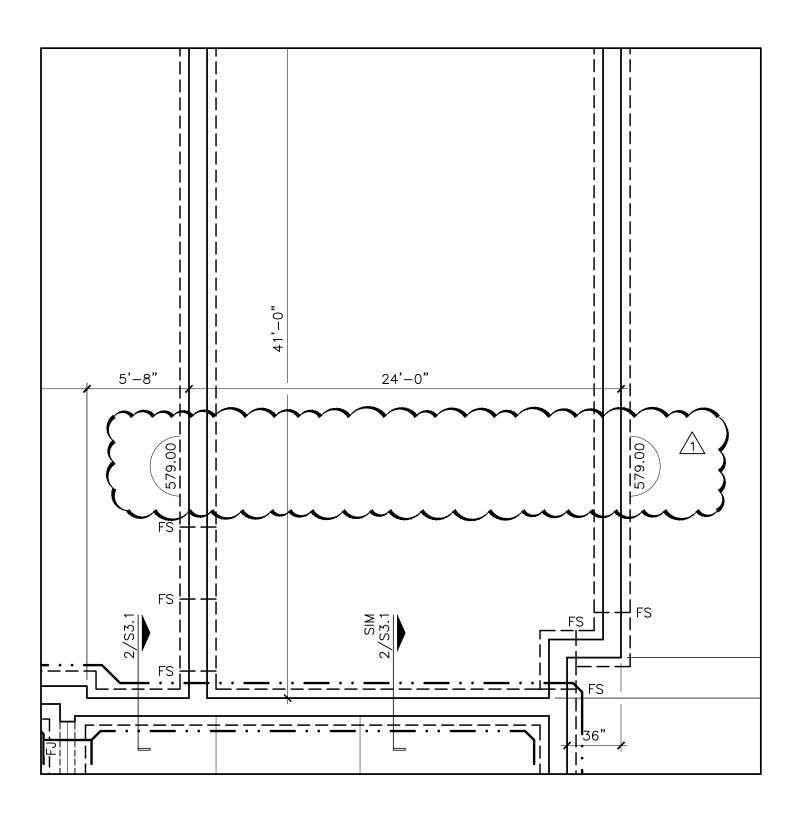
DATE

06.20.23

JOB No

22-27

SKETCH No





755 Seneca Street Suite 202 Buffalo, New York 14210 716.876.7147 ph 716.876.0667 fax

Grand Island Residence E. River Road Grand Island, NY

TITLE

REVISED ELEVATIONS at FOUNDATION / BASEMENT

REF. DRAWING \$1.0



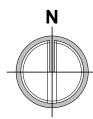
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FIRST FLOOR FRAMING PLAN

3/16" = 1'-0"

1. TOP OF FINISHED FLOOR EL. 584.50' UON [+ OR -] FROM EL. 584.50'

- 2. TOP OF SLAB at GARAGE EL. VARIES PER PLAN
- 3. SJ INDICATES SAWCUT SLAB CONTROL JOINT AS PER TYPICAL DETAIL
- 4. INDICATES TOP OF WALL EL. 584.50
- 5. TOP OF PERIMETER BRICK LEDGE AND INTERIOR CONCRETE FOUNDATIONS EL. 584.25' (-3") UON
- 6. BOTTOM OF FOOTING at GARAGE EL. 579.00'
- 7. TOP OF STEEL BEAMS EL. 582.87'
 (-19 1/2" FROM FIN. FLOOR EL. 584.50')
- 8. FLOOR TRUSS BEARING EL. 582.87' (-19 1/2")
- 9. H3 INDICATES STUDWALL BEARING HEADER
 PER SCHEDULE ON DRAWING S1.2
- 10. HD INDICATES APPROXIMATE LOCATION OF SIMPSON ATS HOLD DOWN AND ANCHORAGE: REF. SHEAR WALL ANCHORAGE SCHEDULE AND TYPICAL DETAILS
- 11. INDICATES WALL TYPE PER SCHEDULE
- 12. —GT INDICATES WALL TYPE PER SCHEDULE
- 13. COORDINATE UNDERSLAB PLUMBING AND RADON MITIGATION (BY OTHERS) WITH MEP DRAWINGS

tredo

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TITLE

REVISED ELEVATIONS at FIRST FLOOR FRAMING

REF. DRAWING \$1.1



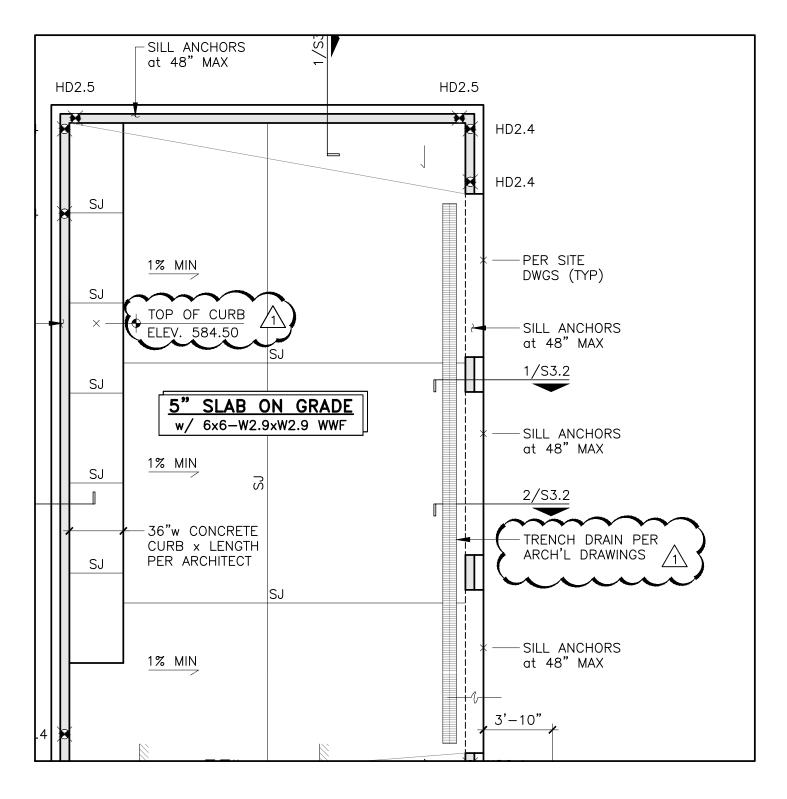
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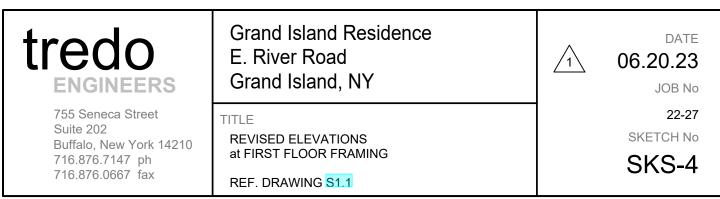
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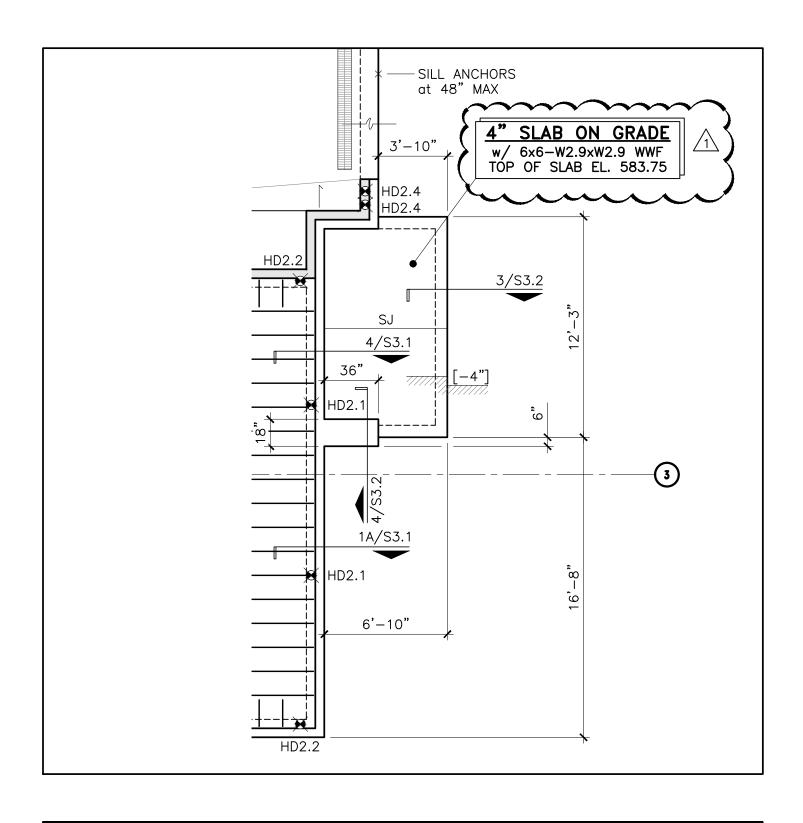
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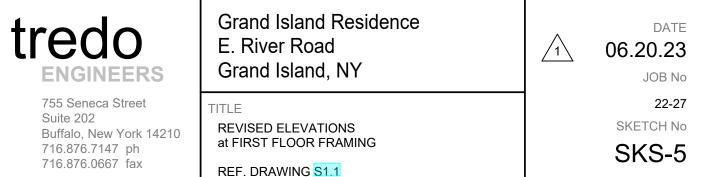
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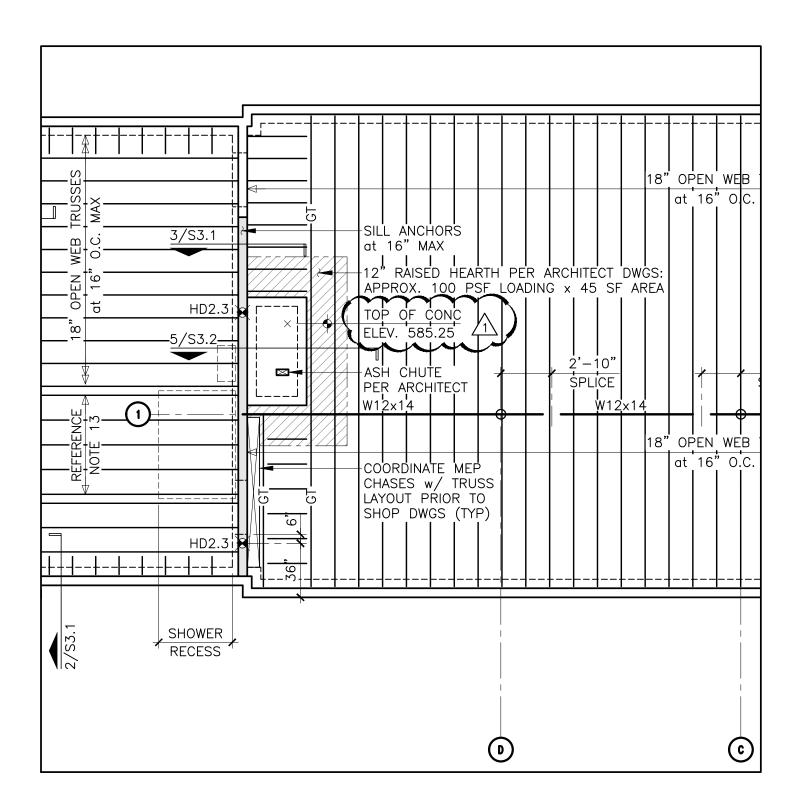
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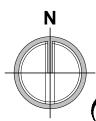












SECOND FLOOR FRAMING PLAN

3/16" = 1'-0"

1. TOP OF FINISHED FLOOR EL. 595.75' (+11'-3" A.F.F.) UON [+ OR -] FROM EL. 595.75'



- 2. FLOOR TRUSS BEARING at MAIN HOUSE EL. 594.12' (+9'-7 1/2" A.F.F.) TRUSS BEARING at GARAGE EL. 592.87' (+8'-4 1/2 A.F.F. HOUSE)
- 3. INDICATES AREA OF 2" T&G FLOOR DECKING (1.7E, Fb > 600 PSI) CONTROLLED RANDOM LAYOUT PATTERN. TOP OF FLOOR EL. AS NOTED
- 4. MINDICATES APPROXIMATE LOCATION OF SIMPSON ATS HOLD DOWN AND ANCHORAGE: REF. SHEAR WALL ANCHORAGE SCHEDULE AND TYPICAL DETAILS
- 5. \longrightarrow INDICATES WALL TYPE PER SCHEDULE

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E. River Road
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TITLE

REVISED ELEVATIONS at SECOND FLOOR FRAMING

REF. DRAWING \$1.2



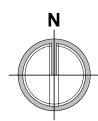
DATE

06.20.23

JOB No

22-27

SKETCH No



ROOF FRAMING PLAN

3/16" = 1'-0"

1. TRUSS BEARING EL. at MAIN HOUSE EL. 602.52' (+18'-0 1/4" A.F.F. FIRST FLOOR)

2. JOIST BEARING EL. at GARAGE EL. 597.94'
(+13'-5 1/4" A.F.F. FIRST FLOOR MAIN HOUSE)

3. INDICATES APPROXIMATE LOCATION OF SIMPSON ATS HOLD DOWN AND ANCHORAGE: REF. SHEAR WALL ANCHORAGE SCHEDULE AND TYPICAL DETAILS

4. — INDICATES WALL TYPE PER SCHEDULE

5. —GT — INDICATES WALL TYPE PER SCHEDULE

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TITLE

REVISED ELEVATIONS at ROOF FRAMING

REF. DRAWING \$1.3



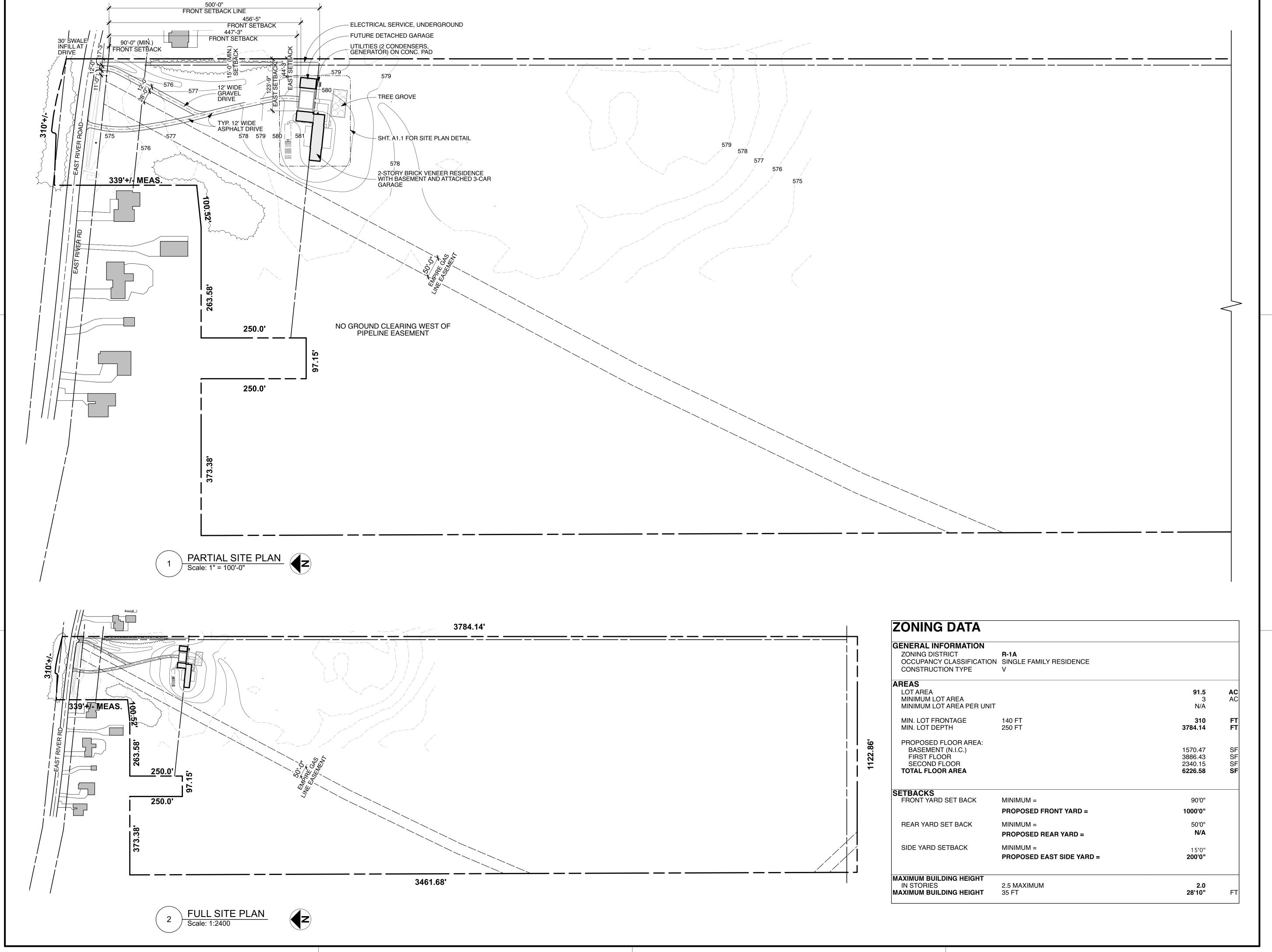
DATE

06.20.23

JOB No

22-27

SKETCH No



Grand Island Residence
4500 E. River Road
Grand Island, NY

Project Number: 2022-0034



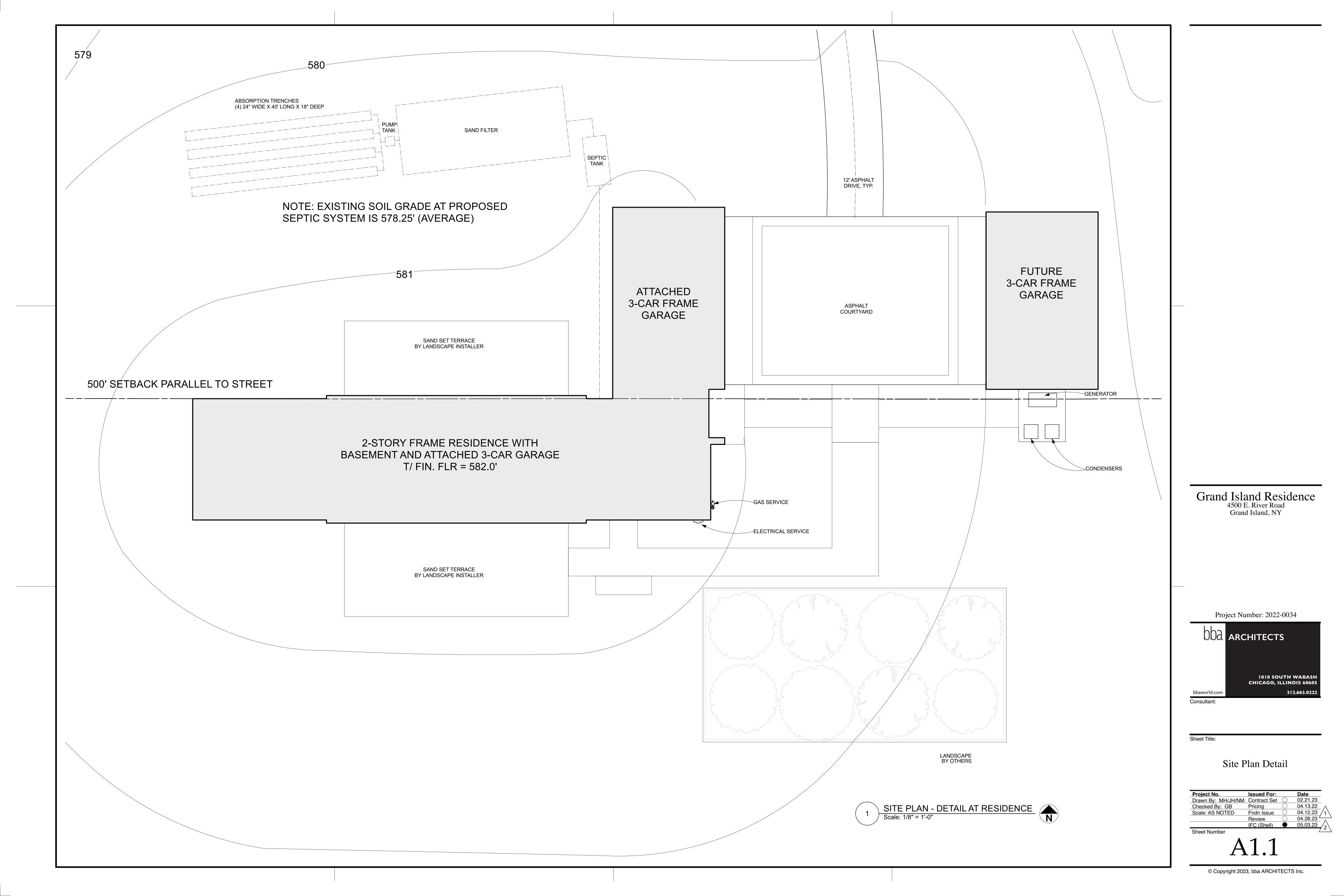
Sheet Title:

Site Plan, Zoning Data

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Project No.	Issued For:		Date	
Drawn By: MH/JH/NM	Contract Set	\circ	02.21.23	
Checked By: GB	Pricing	\bigcirc	04.13.22	Λ
Scale: AS NOTED	Fndn Issue	\circ	04.12.23	/1\
	Review	\circ	04.28.23	
	IFC (Shell)		05.03.23	$\sqrt{2}$
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Sheet Number

A1.0



SPECIFICATIONS

ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED AND CONDITIONED IN ACCORDANCE WITH THEN MANUFACTURER'S WRITTEN SPECIFICATION AND INSTRUCTIONS, EXCEPT AS OTHERWISE NOTED HEREIN.

IN CASE OF ANY DIFFERENCES OR CONFLICTS BETWEEN THE REQUIREMENTS OF THE MANUFACTURER'S INSTRUCTIONS OR SPECIFICATIONS AND THE TECHNICAL SECTIONS OF THE SPECIFICATIONS, THE INSTRUCTIONS OR SPECIFICATIONS HAVING THE MORE DETAILED AND PRECISE REQUIREMENTS WHICH ARE SPECIFICALLY APPLICABLE TO THE WORK IN QUESTION, AS DETERMINED BY THE CONSTRUCTION

THE CONTRACTOR MAY SUGGEST ALTERNATE MATERIALS OR METHODS, IF, IN THEIR OPINION, COST SAVINGS CAN BE MADE WHICH GIVE SIMILAR QUALITY AND APPEARANCE. ANY ALTERNATIVES MUST BE SUBMITTED FOR EVALUATION AND APPROVED BY THE ARCHITECT & OWNER.

EARTHWORK - SEE ALSO F1.0

CODES AND STANDARDS: PERFORM EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION.

A. SOIL MATERIALS

DEFINITIONS:

SATISFACTORY SOIL MATERIALS ARE DEFINED AS THOSE COMPLYING WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AAHTO) M145, SOIL CLASSIFICATION GROUPS A-1, A-2-4,

UNSATISFACTORY SOIL MATERIALS ARE DEFIED AS AASHTO M145 SOIL CLASSIFICATIONS GROUPS A-2-6, A-2-7, A-4, A-5, A-6, AND A-7; ALSO, PEAT AND OTHER HIGHLY ORGANIC SOILS.

SUBBASE MATERIALS: NATURALLY OR ARTIFICIALLY GRODED MIXTURE OF NATURAL OR CRUSHED OR UNCRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLOG, AND NATURAL OR CRUSHED SAND.

DRAINAGE FILL: WASHED, EVENLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL, WITH 100% PASSING 1-1/2" SIEVE AND NOT MORE THAN 5% PASSING A NO. 4 SIEVE.

BACKFILL AND FILL MATERIALS: SATISFACTORY SOIL MATERIALS FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETABLE OR OTHER DELETERIOUS

B. EXCAVATION

EXCAVATION CONSISTS OF REMOVAL AND DISPOSAL OF MATERIALS ENCOUNTERED WHEN ESTABLISHING REQUIRED FINISH GRAD ELEVATIONS.

IF UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED OF REQUIRED SUB GRADE ELEVATIONS, NOTIFY CONSTRUCTION MANAGER. CARRY EXCAVATIONS DEEPER AND REPLACE EXCAVATED MATERIALS AS DIRECTED BY CONSTRUCTION MANAGER.

REMOVAL OF UNSUITABLE MATERIALS AND ITS REPLACEMENT AS DIRECTED WILL BE PAID ON BASIS OF CONTRACT CONDITIONS RELATIVE TO CHANGES TO WORK.

PLACEMENT AND COMPACTION: PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.

BEFORE COMPACTION, MOISTEN OR OPERATE EACH LAYER AS NECESSARY TO PROVIDE OPTIMUM MOISTURE CONTENT. COMPACT EACH LAYER TO REQUIRED PERCENTAGE OF MAXIMUM DRY DENSITY OR RELATIVE DRY DENSITY FOR EACH AREA CLASSIFICATION. DO NOT PLACE BACKFILL OR FILL MATERIALS ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST OR ICE.

C. GRADING

GENERAL: UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING UNDER THIS SECTION, INCLUDING ADJACENT TRANSITION AREAS. SMOOTH FINISHED SURFACES WITHIN SPECIFIED TOLERANCES.

GRADING OUTSIDE BUILDING LINES: GRADES AREAS TO DRAIN AWAY FROM STRUCTURES AND TO PREVENT PONDING.

GRADING SURFACES OF FILL UNDER BUILDING SLABS: GRADE SMOOTH AND EVEN, FREE OF VOIDS, COMPACTED AS SPECIFIED, AND TO REQUIRED ELEVATION. PROVIDE FINAL GRADES WITHIN A TOLERANCE OF 1/2" WHEN TESTED WITH A 10' STRAIGHTEDGE.

D. BUILDING SLAB DRAINAGE COURSE

GENERAL: DRAINAGE COURSE CONSISTS OF PLACEMENT OF DRAINAGE FILL MATERIAL, IN LAYERS INDICATION THICKNESS, OVER SUBGRADE SURFACE TO SUPPORT CONCRETE BUILDING SLABS.

PLACING: PLACE DRAINAGE FILL MATERIAL ON PREPARED SUBGRADE IN LAYERS OF UNIFORM THICKNESS, CONFORMING TO INDICATED CROSS-SECTION AND THICKNESS. MAINTAIN OPTIMUM MOISTURE CONTENT FOR COMPACTING MATERIAL DURING PLACEMENT OPERATION. WHEN A COMPACTED DRAINAGE COURSE IS SHOWN TO BE 6" THICK OR LESS, PLACE MATERIALS IN A SINGLE LAYER.

E. FOUNDATION DRAINAGE

CODES AND STANDARDS: PERFORM FOUNDATION DRAINAGE WORK IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION.

CERTIFICATION: SUBMIT CERTIFICATION SIGNED BY CONTRACTOR AND FOUNDATION DRAINAGE SYSTEM INSTALLER THAT INSTALLED MATERIALS CONFORM TO SPECIFIED REQUIREMENTS AND SYSTEM WAS SUCCESSFULLY CHECKED AND TESTED PRIOR TO COVERING WITH FILTERING AND DRAINAGE FILL.

FURNISH DRAINAGE PIPE COMPLETE WITH FABRIC FILTERS, BENDS, REDUCERS, ADOPTERS, COUPLINGS, COLLARS, AND JOINT MATERIALS.

PERFORATED POLYVINYL CHLORIDE PIPE: ASTM D 2729.

SOIL MATERIALS: IMPERVIOUS FILL; CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO DENSE COMPOSITE.

DRAINAGE FILL: EVENLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL SAND WITH 100% PASSING 0 1/2" SIEVE AND 0-5% PASSING A NO. 50 SIEVE.

FILTERING MATERIALS: EVENLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL. CRUSHED STONE.

AND NATURAL SAND, WITH 100% PASSING A 1-1/2" SIEVE AND 0-5% PASSING A NO. 50 SIEVE.

IMPERVIOUS FILL AT FOOTING: AFTER CONCRETE FOOTINGS HAVE BEEN CURED AND FORMS REMOVED, PLACE IMPERVIOUS FILL MATERIAL ON SUBGRADE ADJACENT TO BOTTOM OF FOOTING. PLACE AND COMPACT IMPERVIOUS FILL TO DIMENSIONS INDICATION OR, IF NOT INDICATED, NOT LESS THAN 6" DEEP

FILTER MATERIAL: PLACE SUPPORTING LAYER OF FILTERING MATERIALS OVER COMPACTED SUBGRADE WHERE DRAINAGE PIPE IS TO BE VOID TO DEPTH INDICATED OR, IF NOT INCLUDED, TO A COMPACTED DEPTH OF NOT LESS THAN 4". AFTER TESTING DRAIN LINES, PLACE ADDITIONAL FILTERING MATERIAL TO A 4" DEPTH AROUND SIDES ON TOP OF DRAINS.

LAYING DRAIN PIPE: LAY DRAIN PIPE SOLIDLY BEDDED IN FILTERING MATERIALS. PROVIDE FULL BEARING FOR EACH PIPE SECTION THROUGHOUT ITS LENGTH, TO TRUE GRADES AND ALIGNMENT, AND CONTINUOUS SLOPE IN DIRECTION OF FLOW.

TESTING DRAIN LINES: TEST OR CHECK LINES BEFORE BACKFILLING TO ASSURE FREE FLOW. REMOVE OBSTRUCTIONS, REPLACE E DAMAGE COMPONENTS, AND RETEST SYSTEM UNTIL SATISFACTORY.

DRAINAGE FILL: PLACE DRAINAGE FILL OVER DRAIN LINES AFTER SATISFACTORY TESTING AND COVERING OF DRAIN LINES WITH FILTERING MATERIAL. COMPLETELY COVER DRAIN LINES TO A WIDTH OF AT LEAST 6" ON EACH SIDE AND ABOVE TOP OF PIPE TO WITHIN 12" OF FINISH GRADE. PLACE FILL MATERIAL IN LAYERS NOT EXCEEDING 3" IN LOOSE DEPTH AND COMPACT EACH LAYER PLACED. OVERLAY DRAIN FILL MATERIAL WITH A TWO FOOT WIDE STRIP OF RASSIN PAPER OR SIMILAR MATERIAL.

FILL TO GRADE: APPLY IMPRESSIVE FILL MATERIAL OVER COMPACTED DRAINAGE FILL OF FOOTING DRAINS, PLACING MATERIAL IN LAYERS NOT EXCEEDING 6" IN LOOSE DEPTH AND THOROUGHLY COMPACTING EACH LAYER. CARRY IMPERVIOUS FILL TO INDICATED FINISH ELEVATIONS AND SLOPE AWAY FROM BUILDING PERIMETER

CONCRETE AND REINFORCEMENT - SEE ALSO F1.0

CONCRETE STRESSES USED IN DESIGN: CONCRETE FOOTINGS AND FOUNDATIONS SHALL BE REGULAR WEIGHT AND ATTAIN 3000 PSI 28 DAYS ULTIMATE COMPRESSIVE STRENGTH. SLABS: 4000 PSI 28 DAYS UNIT COMP. STRENGTH. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED.

DETAIL BAR REINFORCEMENT ACCORDING TO ACI 315 – DETAILING MANUAL, LATEST EDITION. DETAIL WELDED WIRE FABRIC IN ACCORDANCE WITH THE WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE (WRI MANUAL MP-100), LATEST EDITION.

PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT OF POSITIONS SHOWN ON PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN OIL EXPOSED CONCRETE WORK.

THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF ALL INSERTS, SLEEVES, PIPES, DUCT WORK, FOUNDATION PODS, AND ANCHOR BOLTS THAT ARE REQUIRED BY THE ACI 318.

CONCRETE COVER FOR REINFORCEMENT SHALL BE PROVIDED AS REQUIRED BY ACI 301 OF BY THE GOVERNING ORDINANCE WHICHEVER IS MOST CRITICAL. ALL EMBEDDED LENGTHS AND LAPS SHALL BE REQUIRED BY ACI 318.

PROVIDES WELDED WIRE FABRIC AS SHOWN ON DRAWINGS. SUBGRADE TO BE MINIMUM 6" SAND COMPACTED TO 90% DENSITY IN ACCORD. WITH ASTM, D 1557, UNTIL FINAL GRADE IS OBTAINED.

MASONRY - SEE ALSO F1.0

CONSTRUCTION TOLERANCES:
VARIATION FROM PLUMB: FOR VERTICAL LINES AND SURFACES OF COLUMNS AND WALLS, DO NOT EXCEED 1/4"
IN 20', OR 3/8" IN STORY HEIGHT NOT TO EXCEED 20', NOR 1/2" IN 40' OR MORE. FOR EXTERNAL CORNERS,
EXPANSION JOINTS, CONTROL JOINTS AND OTHER CONSPICUOUS LINES, SO NOT EXCEED 1/4" IN ANY STORY
OR 20 MAXIMUM, NOR 1/2" IN 40' OR MORE.

VARIATION FROM LEVEL; FOR LINES OF EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES AND OTHER CONSPICUOUS LINES, DO NOT EXCEED 1/4" IN ANY BAY OR 20' MAXIMUM, NOR 3/4" IN 40' OR MORE.

VARIATION OF LINEAR BUILDING LINE: FOR POSITION SHOWN IN PLAN AND RELATED PORTION OF COLUMNS, WALLS AND PARTITIONS, DO NOT EXCEED 1/4" NOR PLUS 1/2". PROTECTION OF WORK; DURING ERECTION, COVER TOP OF WALLS WITH HEAVY WATERPROOF SHEETING AT END OF EACH DAY'S WORK, COVER PARTIALLY COMPLETED STRUCTURES WHEN WORK IS NOT IN PROGRESS. EXTEND COVER A MINIMUM OF 24 INCHES DOWN BOTH SIDES AND HOLD COVER SECURELY IN PLACE. DO NOT APPLY UNIFORM FLOOR OR ROOF LOADING FOR AT LEAST 12 HOURS AFTER BUILDING MASONRY WALLS OR COLUMNS.

COLD WEATHER PROTECTION: NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES 'F., UNLESS THE RECOMMENDATIONS SPECIFIED BY THE INTERNATIONAL MASONRY INDUSTRY ALL-WEATHER COUNCIL IN THEIR BOOK "RECOMMENDED PRACTICES AND GUIDES SPECIFICATIONS FOR COLD WEATHER MASONRY CONSTRUCTION ARE STRICTLY FOLLOWED.

UNLESS DIRECTED OTHERWISE, BLOCK SHALL BE NORTHFIELD BLOCK "DRYBLOCK" USED IN CONJUNCTION WITH MORTAR WATERPROOFING ADDITIVE.

ALL MORTAR BETWEEN LIMESTONE COPING SHALL BE HELD 1/2" BACK FROM FACE OF STONE TO ALLOW FOR CAULKING

STRUCTURAL STEEL - SEE F1.0

BITUMINOUS WATERPROOFING & DAMPPROOFING

SEE ATTACHED MATERIALS SPECIFICATION FOR DETAILS

AS APPLICABLE, ASSIGN WORK CLOSELY ASSOCIATED WITH WATERPROOFING/DAMPPROOFING, INCLUDING (BUT NOT LIMITED TO) VAPOR BARRIERS, INSULATION (EXCEPT FOR CEMENTITIOUS COST-IN-PLACE TYPE), METAL FLASHING AND COUNTER FLASHING, EXPANSION JOISTS, AND JOIN SEALERS, TO INSTALLER OF WATERPROOFING/DAMPPROOFING, FOR UNDIVIDED RESPONSIBILITY.

ALL MORTAR JOINTS IN BRICK TO BE 3/8". - ALL MORTAR JOINTS IN STONE TO BE 1/4".

GENERAL: PROVIDE WATERPROOFING AND DAMPPROOFING MATERIALS WHICH COMPLY WITH THE FOLLOWING GENERAL STANDARDS, OR PROVIDE OTHER SIMILAR PRODUCTS WHICH ARE CERTIFIED IN WRITING BY MANUFACTURER OF PRIMARY WATERPROOFING MATERIALS TO BE SUPERIOR IN PERFORMANCE FOR APPLICATION INDICATED: ASTM C 826-76 OR ASTM C 836-84.

CLEAN SUBSTRATE OF PROJECTIONS AND SUBSTANCES DETRIMENTAL TO WORK; COMPLY WITH RECOMMENDATIONS OF PRIME MATERIALS MANUFACTURER. INSTALL CONT STRIPS AND SIMILAR ACCESSORIES AS SHOWN AND AS RECOMMENDED BY PRIME MATERIALS MANUFACTURER EVEN THOUGH NOT

INCLI ATION

APPLICATIONS OF INSULATION SPECIFIED IN THIS SECTION INCLUDE THE FOLLOWING

SEE ATTACHED MATERIALS SPECIFICATION FOR DETAILS

FOUNDATION WALL INSULATION - SEE SHEET A5.1

PERIMETER INSULATION: ON VERTICAL SURFACES, SET UNITS IN ADHESIVE APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION. USE TYPE ADHESIVE RECOMMENDED BY MANUFACTURER OF INSULATION. SEAL JOINTS BETWEEN CLOSED-CELL (NON-BREATHING) INSULATION UNITS BY APPLYING MASTIC OR SEALANT TO EDGES OF EACH UNIT TO FORM A TIGHT SEAL AS UNITS ARE SHOVED INTO PLACE. FILL VOIDS IN COMPLETED INSTALLATION WITH MASTIC OR SEALANT.

CARPENTRY NOTES - SEE ALSO F1.0

CARPENTER SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE ROUGH CARPENTRY WORK AS SHOWN ON THE DRAWINGS AND SUBSEQUENT AGREEMENTS WITH CONSTRUCTION MANAGER. ROUGH CARPENTRY SHALL INCLUDE ALL ROUGH HARDWARE, ALL FASTENERS, FRAMING CLIPS, STRAPS AND ANCHORS.

CARPENTER SHALL VERIFY AND COORDINATE ALL FLOOR AND ROOF TRUSSES AND STRUCTURAL WOOD MEMBER LOCATIONS AND SIZES WITH CONSTRUCTION MANAGER.

 ${\tt INSTALL\,ALL\,HORIZONTAL\,MEMBERS\,WITH\,CROWN\,UP.}$

WALL, FLOOR, AND CEILING PENETRATIONS SHALL BE FIRE-BLOCKED WITH MINIMUM 2X REQUIRED BY CODE CARPENTER SHALL FURNISH AND INSTALL 2X BLOCKING FOR BATHROOM ACCESSORIES, CABINETS AND PLUMBING FIXTURES. COORDINATE LOCATION WITH CONSTRUCTION MANAGER.

CARPENTER SHALL INSTALL TEMPORARY RAILINGS, STAIRS, ETC., AS NEEDED AND REMOVAL WHEN NECESSARY FOR ACCESS BY OTHER TRADES.

EXTERIOR SHEATHING SHALL BE FASTENED WITH GALVANIZED NAILS. ROOF SHEATHING SHALL BE CLIPPED. FLOOR SHEATHING SHALL BE GLUED AND NAILED.

TYVEK HOUSEWRAP SHALL BE INSTALLED AT EXTERIOR OF WALL SHEATHING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. JOINTS SHALL BE TAPED.

FURNISH AND INSTALL CONTINUOUS SILL SEALER UNDER ALL EXTERIOR WALLS. SHIMMED SILL PLATES SHALL BE GROUTED.

VERIFY ALL WINDOW AND DOOR OPENINGS WITH CONSTRUCTION MANAGER SAND DOOR/WINDOW

MANUFACTURER. ALL WALL OPENING 6'-0" WIDE AND LARGER WITHIN A BEARING WALL SHALL HAVE A DOUBLE

CRIPPLE STUD ON EACH SIDE OF THE OPENING.

INSTALL MINIMUM (3) 2X4 POST AT ALL HORIZONTAL FRAMING MEMBER BEARING POINTS, CONTINUOUS TO

FOUNDATION WALL BELOW, UNLESS NOTES OTHERWISE ON DRAWINGS.

THE WOOD TRUSS SUPPLIER/MANFACTURER SHALL DESIGN ALL TRUSSES, TRUSS BRACING, AND TRUSS BRIDGING AND ALL ASSOCIATED CONNECTIONS, INCLUDING ALL END CONNECTIONS AND HOLD-DOWNS, TO CONFORM TO THE CONSTRUCTION DOCUMENTS. DESIGN WIND LOADS AND ROOF LIVE LOADS SHALL BE IN

ALL FLOOR LOADS TO BE DESIGNED TO MAX. L/480 DEFLECTION.

WOOD ROOF TRUSS DIAGRAMS AND SHOP DRAWINGS SHALL BE SUPPLIED BY THE TRUSS MANUFACTURER AND SEALED BY A REGISTERED ENGINEER. COPIES OF SAME SHALL BE SUPPLIED TO CITY OFFICIALS AS REQUIRED BY BUILDING CODE.

ALL EXTERIOR JOISTS AND POST SHALL BE PRESSURE-TREATED LUMBER. ALL EXTERIOR DECKING SHALL BE RED CEDAR. ALL CEDAR BOARDS AND LUMBER SHALL BE INSTALLED WITH STAINLESS STEEL FASTENERS. ALL EXTERIOR TRIM SHALL BE SPF. ALL EXTERIOR JOIST HANGERS SHALL BE GALVANIZED.

METAL CONNECTORS SHALL BE (2) 2X'S AS INDICATED ON DRAWINGS WITH A MINIMUM LAP SPLICE OF 4'-0" WITH BUTT JOINTS OVER STUDS.

ROOFING SUBCONTRACTOR SHALL INSTALL 30# ASPHALTIC FELT PAPER ROVER ROOF SHEATHING. INSTALL MIN (1) BASE COURSE ICE & WATER SHEILD AT SLOPED ROOF.

DOOR ACCESSORIES

ACCORDANCE WITH BUILDING CODE.

PROVIDE WEATHER-STRIPPING OF EACH EDGE OF EXTERIOR DOOR LEAF. PROVIDE UNITS WITH INTEGRAL, REPLACEABLE, RESILIENT WEATHER-STRIPPING OF EXTRUDED NEOPRENE OR VINYL.

GYPSUM DRYWALL

THE RECOMMENDATIONS AND SPECIFICATION FOR GYPSUM DRYWALL INSTALLATION AS PREPARED BY THE UNITED STATES GYPSUM CO. SHALL APPLY TO THIS WORK. USE PRODUCTS OF THE U.S. GYPSUM CO. OR NATIONAL GYPSUM CO. PRODUCTS LISTED BELOW ARE USG TO INDICATE TYPE AND QUALITY.

FOR DRYWALL JOINTING MAINTAIN INTERIOR TEMPERATURE OF 55 DEGREES F FOR ONE-WEEK PRIOR TO WORK, DURING WORK AND THEREAFTER.

BATHS: SHOWER AND TUB ENCLOSURE PERIMETER WALLS UNDER TILE, SHOWER FLOORS, AND TOP, "DUROCK" 1/2" CEMENT BOARD OR APPROVED EQUAL TO A HEIGHT OF 80" AFF IN TUBS. INSTALL DUROCK ON ALL WALLS AND CEILINGS IN MASTER SHOWER.

MILLWORK SEE ATTATCHED SPECIFICATION FOR DETAILS

ALL OTHER GYP. BOARD IN BATH: 5/8" THICK

CERAMIC AND QUARRY TILE

MANUFACTURER'S QUALIFICATION: MANUFACTURER SHALL CERTIFY THAT CERAMIC TILE MEETS THE REQUIREMENTS OF TCA A137.1. MANUFACTURER OF LATEX ADHESIVE SHALL CERTIFY THAT THE LATEX CONFORMS TO ANSI 118.4. INSTALLER QUALIFICATIONS: MINIMUM OF 5 YEARS EXPERIENCE ON COMPARABLE PROJECTS.

REFERENCE STANDARDS: EXCEPT AS OTHERWISE NOTED, ALL LABOR, MATERIALS AND WORKMANSHIP FOR TILE SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE FOLLOWING: "1984 HANDBOOK FOR CERAMIC TILE INSTALLATION".

ALLOWABLE TOLERANCES FINISHED SURFACES SHALL BE LEVEL AND PLUMB TO WITHIN 1/16" IN 5' WHERE DRAINS ARE INDICATED, SLOPE TO DRAIN 1/2" IN 10'.

2018 IECC PRESCRIPTIVE METHOD FOR ZONE 5 - RESIDENTIAL										
			GLAZED	CEILING	WOOD-FRAME	MASONRY		BASEMENT		CRAWL SPACE
	FENESTRATION	SKYLIGHT	FENESTRATION	(ROOF)	WALL	WALL	FLOOR	WALL	SLAB	WALL
				-					R-VALUE &	
	U-FACTOR	U-FACTOR	SHGC	R-VALUE	R-VALUE	R-VALUE	R-VALUE	R-VALUE	DEPTH	R-VALUE
CODE					20 OR 13+5ci					
REQUIREMENT	0.30	0.55	NR	49	(H)	13/17	30 (G)	15/19	10, 2 FT.	15/19
_						· · · · · · · · · · · · · · · · · · ·				
PROPOSED	0.30	NA	NR	49	20	20	30	NA	10, 2 FT.	NA
									,	
G. ALTERNATIVELY,	INSULATION SUFFICIE	NT TO FILL THE F	RAMING CAVITY PROVID	DING NOT LESS T	HAN AND R-VALUE OF	R-19				

H. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION. THERFORE, AS AN EXAMPLE, "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 CONTINUOUS INSULATION FOR STEEL FRAME CONSTRUCTION, SEE TABLE R402.2.6

2018 IECC NOTES (PRESCRIPTIVE METHOD - MANDATORY REQUIREMENTS):

(R403.1)

N1101.14 (R401.3) CERTIFICATE: A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR REGISTERED DESIGN PROFESSIONAL AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED, A UTILITY ROOM OR AN APPROVED LOCATION INSIDE THE BUILDING. WHERE LOCATED ON AN ELECTRICAL PANEL, THE CERTIFICATE SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN OR ON CEILING/ROOF, WALLS, FOUNDATION (SLAB, BASEMENT WALL, CRAWLSPACE WALL AND FLOOR) AND DUCTS OUTSIDE CONDITIONED SPACES; U-FACTORS FOR FENESTRATION AND THE SOLAR HEAT GAIN COEFFICIENT (SHGC) OF FENESTRATION, AND THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON THE BUILDING. WHERE THE IS MORE THAN ONE VALUE FOR EACH COMPONENT, THE CERTIFICATE SHALL LIST THE VYPES AND EFFICIENCIES OF HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT. WHERE A GAS-FIRED UNVENTED ROOM HEATER, ELECTRIC FURNACE, OR "BASEBOARD ELECTRIC FURNACE, OR "BASEBOARD ELECTRIC HEATER," AS APPROPRIATE. AN EFFICIENCY SHALL NOT BE LISTED FOR GAS-FIRED UNVENTED ROOM HEATERS, ELECTRIC FURNACES OR ELECTRIC BASEBOARD HEATERS.

N1102.4 **AIR LEAKAGE:** THE *BUILDING THERMAL ENVELOPE* SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.5. (R402.4)

02.5 **MAXIMUM FENESTRATION U-FACTOR AND SHGC:** THE AREA-WEIGHTED AVERAGE MAXIMUM FENESTRATION U-FACTOR PERMITTED USING TRADEOFFS FROM SECTION R402.1.5 OR R405 02.5) SHALL BE 0.48 IN CLIMATE ZONES 6 THROUGH 8 FOR VERTICAL FENESTRATION, AND 0.75 IN CLIMATE ZONES 4 THROUGH 8 FOR SKYLIGHTS. THE AREA-WEIGHTED AERAGE MAXIMUM

1103.1 **CONTROLS:** AT LEAST ONE THERMOSTAT SHALL BE PROVIDED FOR EACH SEPARATE HEATING AND COOLING SYSTEM.

N1103.1.2 **HEAT PUMP SUPPLEMENTARY HEAT:** HEAT PUMPS HAVING SUPPLEMENTARY ELECTRIC-RESISTANCE HEAT SHALL HAVE CONTROLS THAT, EXCEPT DURING DEFROST, PREVENT SUPPLEMENTAL (R403.1.2) HEAT OPERATION WHEN THE HEAT PUMP COMPRESSOR CAN MEET THE HEATING LOAD.

N1103.3.2 **DUCTS-SEALING:** DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1

FENESTRATION SHGC PERMITTED USING TRADEOFFS FROM SECTION N1105 IN CLIMATE ZONES 1 THROUGH 3 SHALL BE 0.50

N1103.3.3 **DUCT TESTING:** DUCTS SHALL BE PRESSURE TESTED TO DETERMINE AIR LEAKAGE BY ONE OF THE FOLLOWING METHODS:

3)
1. ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE MEASURED WITH A PRESSURE DIFFERENTIAL OF 0.1 INCH W.G. (25 Pa) ACROSS THE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE IF INSTALLED AT THE TIME OF THE TEST. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.

2. POSTCONSTRUCTION TEST: TOTAL LEAKAGE SHALL BE MEASURED WITH A PRESSURE DIFFERENTIAL OF 0.1 INCH W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.

EXCEPTIONS: 1. A DUCT AIR LEAKAGE TEST SHALL NOT BE REQUIRED WHERE THE DUCTS AND AIR HANDLERS ARE LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE; 2. A DUCT AIR LEAKAGE TEST SHALL NOT BE REQUIRED FOR DUCTS SERVING HEAT OR ENERGY RECOVERY VENTILATORS THAT ARE NOT INTEGRATED WITH DUCTS SERVING HEATING OR COOLING

N1103.3.5 **BUILDING CAVITIES:** BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.

N1103.4 (R403.4) **MECHANICAL SYSTEM PIPING INSULATION:** MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105 DEG. F. (41 DEG. C) OR BELOW 55 DEG. F (13 DEG. C) SHALL BE INSULATED TO A MINIMUM OF R-3.

N1103.5.1 **HEATED WATER CIRCULATION AND TEMPERATURE MAINTENANCE SYSTEMS:** HEATED WATER CIRCULATION SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION N1103.5.1.1. HEAT TRACE (R403.5.1) TEMPERATURE MAINTENANCE SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION N1103.5.1.2. AUTOMATIC CONTROLS, TEMPERATURE SENSORS AND PUMPS SHALL BE ACCESSIBLE.

N1103.6.1 **MECHANICAL VENTILATION:** THE BUILDING SHALL BE PROVIDED WITH VENTILATION THAT MEETS THE REQUIREMENTS OF SECTION M1507 OR WITH OTHER APPROVED MEANS OF (R403.6) VENTILATION. OUTDOOR AIR INTAKES AND EXHAUSTS SHALL HAVE AUTOMATIC OR GRAVITY DAMPERS THAT CLOSE WHEN THE VENTILATION SYSTEM IS NOT OPERATING.

N1103.7
(R403.7)

EQUIPMENT SIZING AND EFFICIENCY RATING: HEATING AND COOLING EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH ACCA MANUAL S BASED ON BUILDING LOADS CALCULATED IN ACCORDANCE WITH ACCA MANUAL J OR OTHER APPROVED HEATING AND COOLING CALCULATION METHODOLOGIES. NEW OR REPLACEMENT HEATING AND COOLING EQUIPMENT SHALL HAVE AN EFFICIENCY RATING EQUAL TO OR GREATER THAN THE MINIMUM REQUIRED BY FEDERAL LAW FOR THE GEOGRAPHIC LOCATION WHERE THE EQUIPMENT IS INSTALLED.

N1103.8 SYSTEMS SERVING MULTIPLE DWELLING UNITS: SYSTEMS SERVING MULTIPLE DWELLING UNITS SHALL COMPLY WITH SECTIONS C403 AND C404 OF THE IECC-COMMERCIAL PROVISIONS IN

N1103.9 SNOW MELT AND ICE SYSTEM CONTROLS: SNOW- AND ICE-MELTING SYSTEMS, SUPPLIED THROUGH ENERGY SERVICE TO THE BUILDING, SHALL INCLUDE AUTOMATIC CONTROLS CAPABLE OF SHUTTING OFF THE SYSTEM WHEN THE PAVEMENT TEMPERATURE IS ABOVE 50 DEG. F. (10 DEG. C), AND NO PRECIPITATION IS FALLING AND AN AUTOMATIC OR MANUAL CONTROL THAT WILL ALLOW SHUTOFF WHEN THE OUTDOOR TEMPERATURE IS ABOVE 40 DEG. F. (4.8 DEG. C)

N1103.10 POOLS AND PERMANENT SPA ENERGY CONSUMPTION: THE ENERGY CONSUMPTION OF POOLS AND PERMANENT SPAS SHALL BE IN ACCORDANCE WITH SECTIONS N1103.10.1 THROUGH

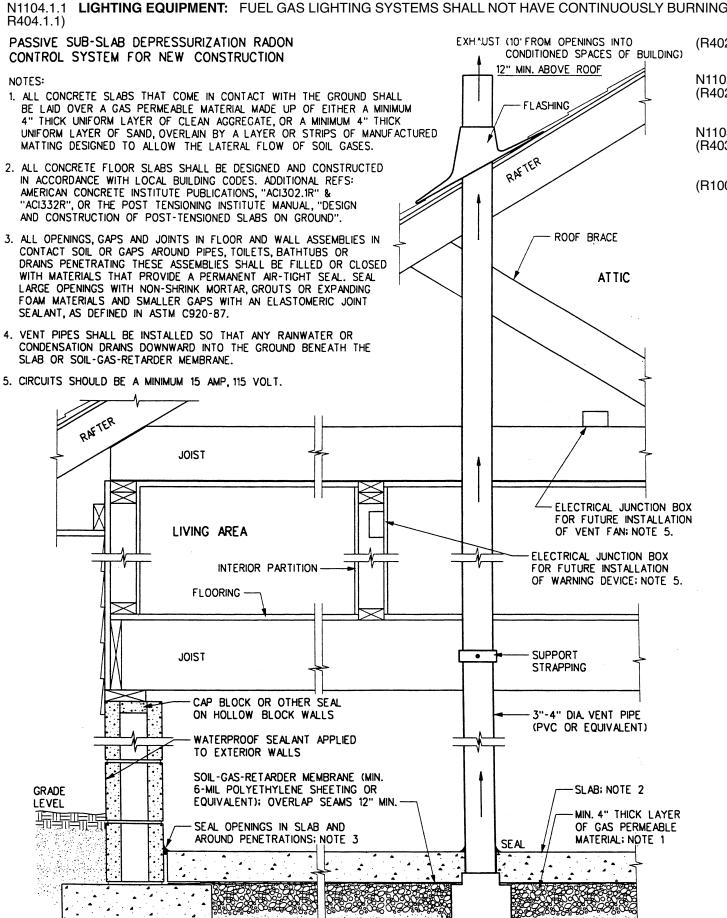
--- PVC T-FITTING (OR ÉQUIVALENT)
TO SUPPORT VENT PIPE

N1103.11 PORTABLE SPAS: THE ENERGY CONSUMPTION OF ELECTRIC-POWERED PORTABLE SPAS SHALL BE CONTROLLED BY THE REQUIREMENTS OF APSP-14.

(R403.11)

N1104.1 **LIGHTING EQUIPMENT:** NOT LESS THAN 90% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE CONTAIN ONLY HIGH-EFFICACY LAMPS

N1104.1.1 **LIGHTING EQUIPMENT:** FUEL GAS LIGHTING SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS.



(R402.2.10) SLAB ON GRADE FLOOR WITH A FLOOR SURFACE LESS THAN 12 INCHES BELOW GRADE SHALL BE INSULATED TO R-10 WITH A MINIMUM DEPTH OF 2 FEET

N1102.4 (R402.4) AIR LEAKAGE: THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.5.

MECHANICAL SYSTEM PIPING INSULATION: MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105 DEG. F. (41 DEG. C) OR BELOW 55 DEG. F (13 DEG. C) SHALL BE INSULATED TO A MINIMUM OF R-3.

EXTERIOR AIR INTAKE: THE EXTERIOR AIR INTAKE SHALL BE CAPABLE OF SUPPLYING ALL COMBUSTION AIR FROM THE EXTERIOR OF THE DWELLING OR FROM SPACES WITHIN THE DWELLING VENTILATED WITH OUTDOOR AIR SUCH AS NON-MECHANICALLY VENTILATED CRAWL OR ATTIC SPACES. THE EXTERIOR AIR INTAKE SHALL NOT BE LOCATED WITHIN THE GARAGE OR BASEMENT OF THE DWELLING. THE EXTERIOR AIR INTAKE, FOR OTHER THAN LISTED FACTORY-BUILT FIREPLACES, SHALL NOT BE LOCATED AT AN ELEVATION HIGHER THAN THE FIREBOX. THE EXTERIOR AIR INTAKE SHALL BE COVERED WITH A CORROSION-RESISTANT SCREEN OF 1/4" (6.4 MM) MESH.

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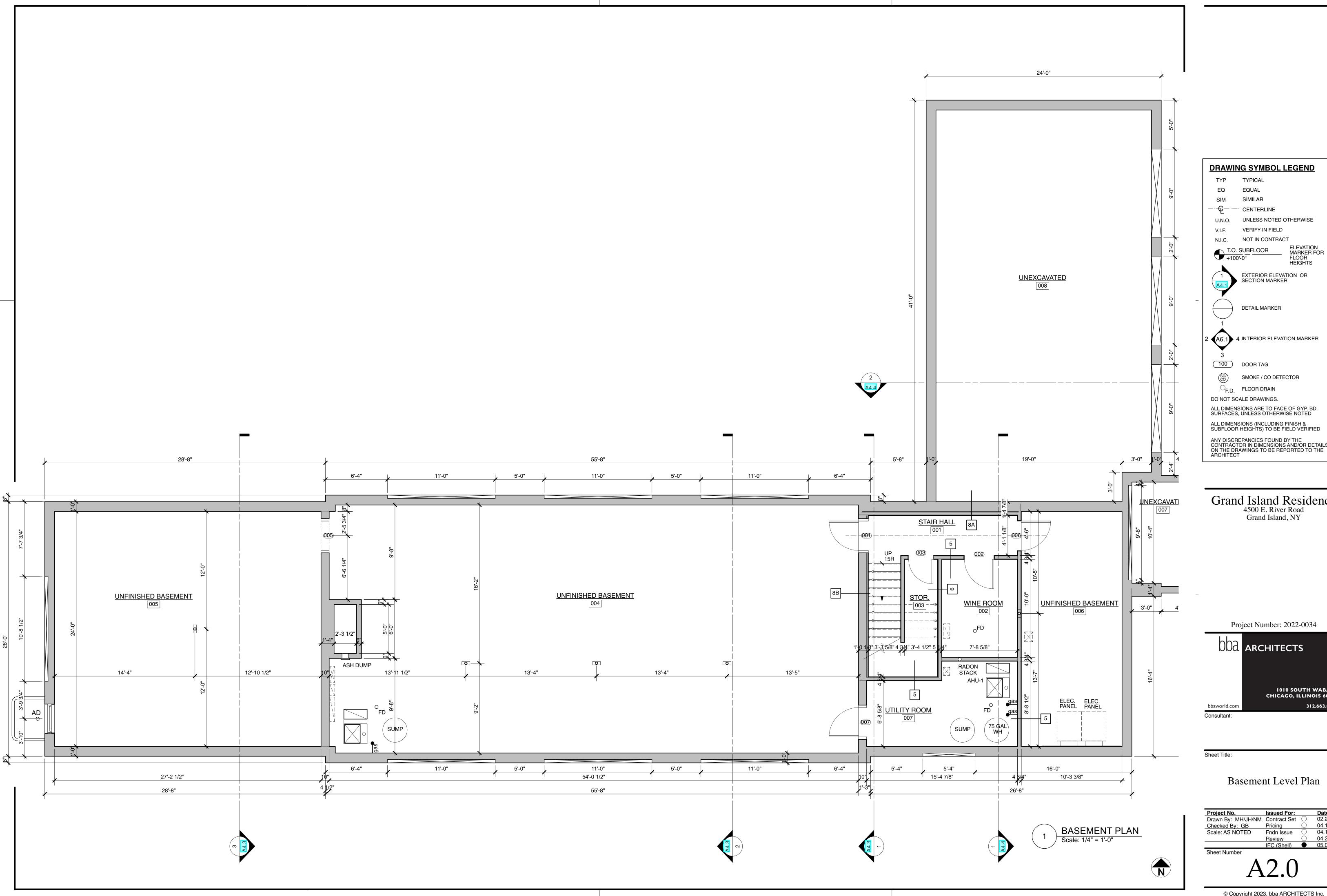
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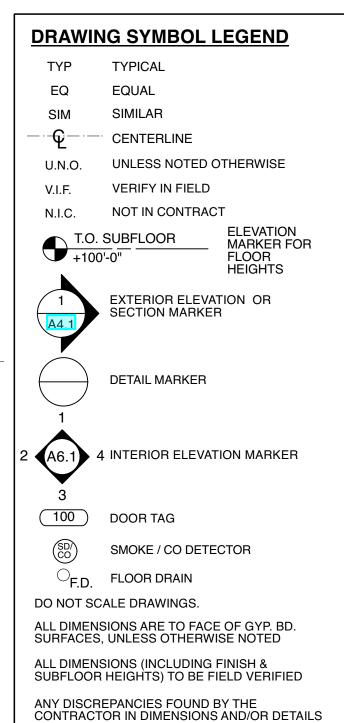


Sheet Title

Materials Specification, General Notes

Project No.	Issued For:		Date
Drawn By: MH/JH/NM	Contract Set	\circ	02.21.23
Checked By: GB	Pricing	\bigcirc	04.13.22
Scale: AS NOTED	Fndn Issue	\bigcirc	04.12.23 /
	Review	\circ	04.28.23
	IFC (Shell)		05.03.23
Sheet Number			Z





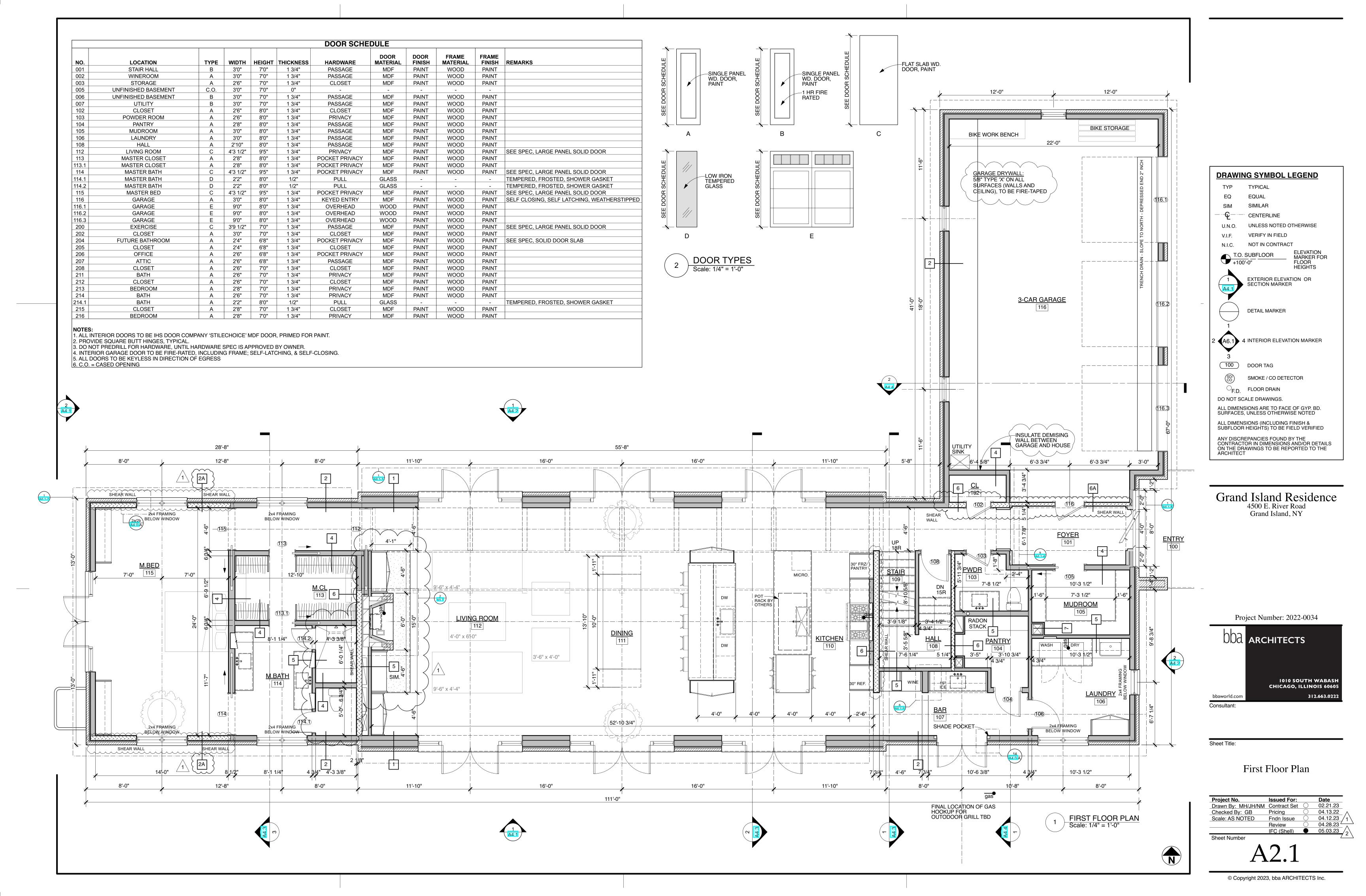
Grand Island Residence
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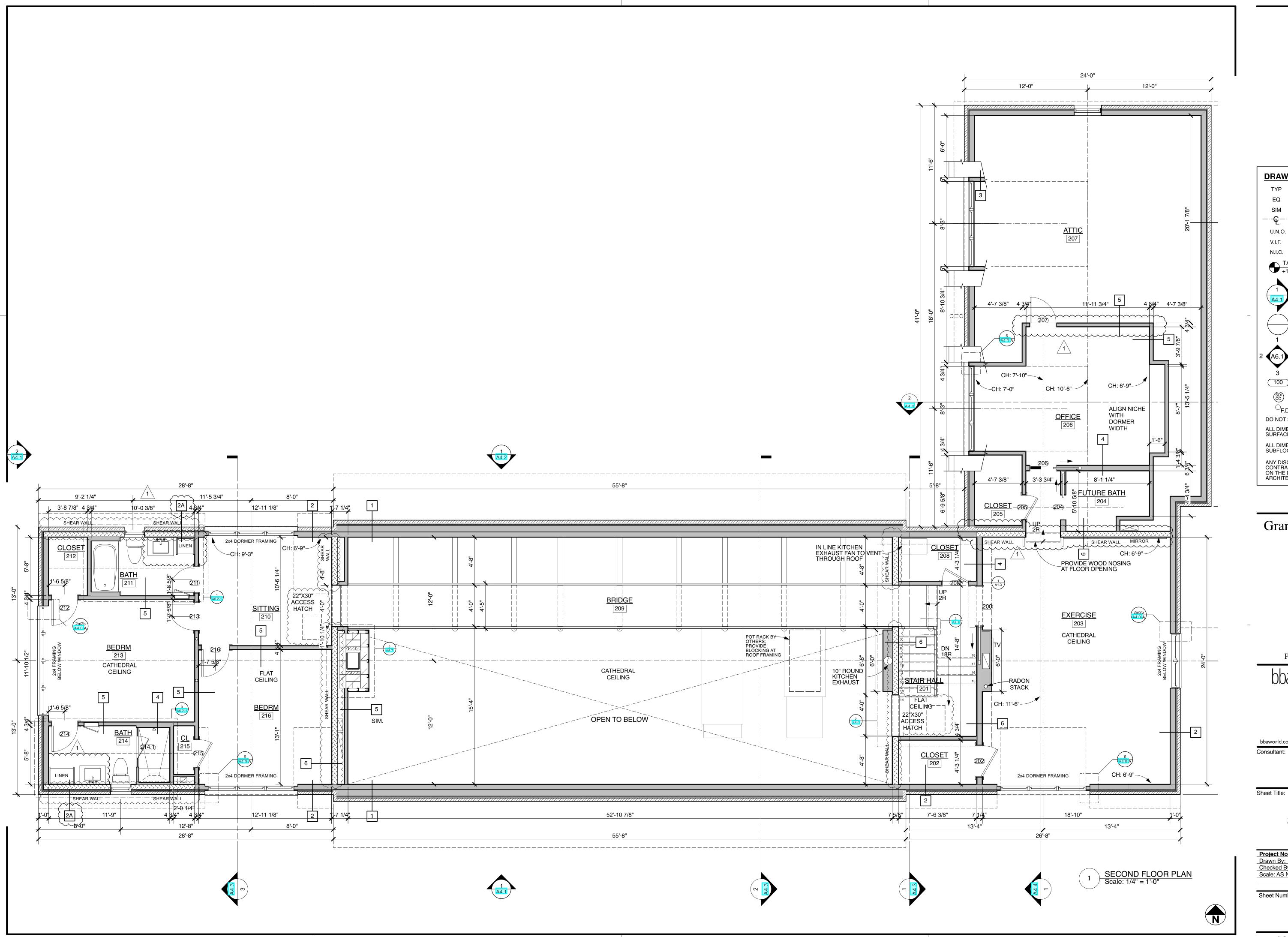
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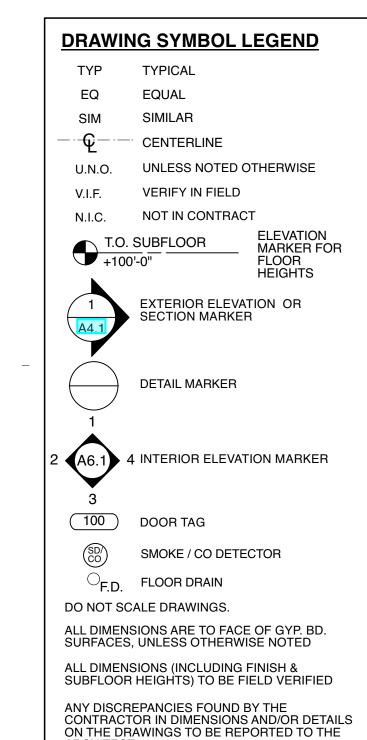


Basement Level Plan

Project No.	Issued For:		Date
Drawn By: MH/JH/NM	Contract Set	0	02.21.23
Checked By: GB	Pricing	0	04.13.22
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	Review	\circ	04.28.23
	IFC (Shell)		05.03.23
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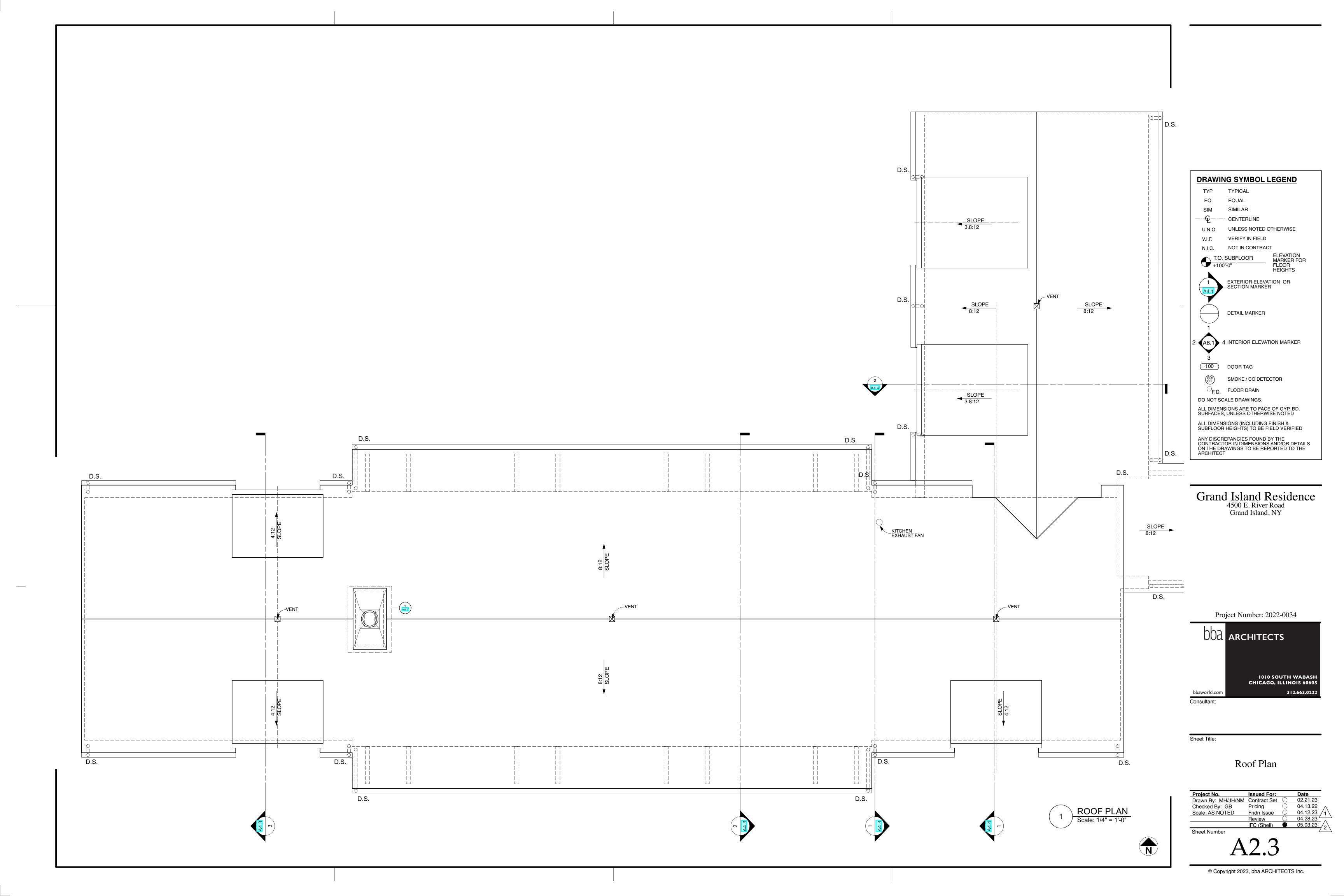
Grand Island Residence 4500 E. River Road Grand Island, NY

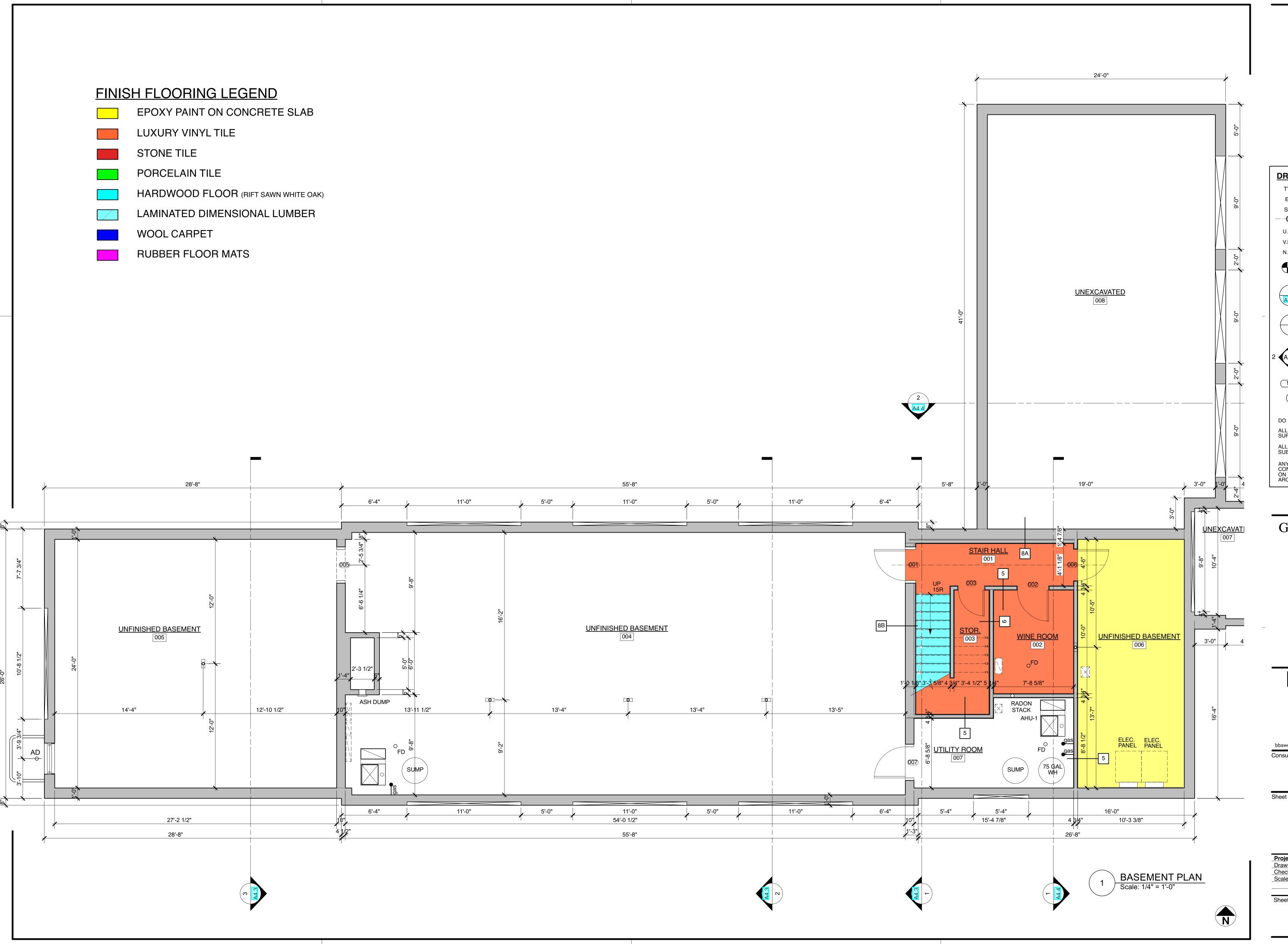
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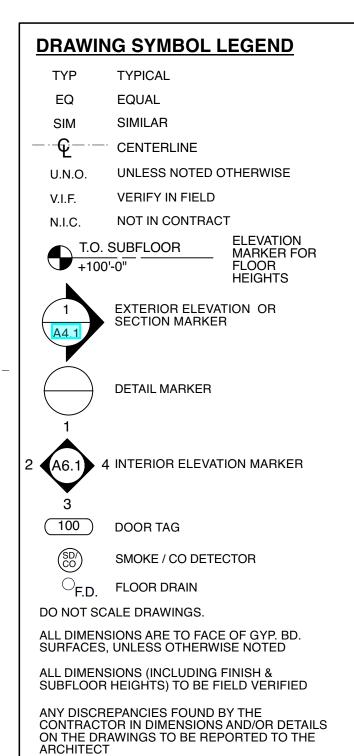


Second Floor Plan

Project No.	Issued For:		Date
Drawn By: MH/JH/NM	Contract Set	\bigcirc	02.21.23
Checked By: GB	Pricing	\bigcirc	04.13.22
Scale: AS NOTED	Fndn Issue	\bigcirc	04.12.23
	Review	\bigcirc	04.28.23 ^Z
	IFC (Shell)		05.03.23
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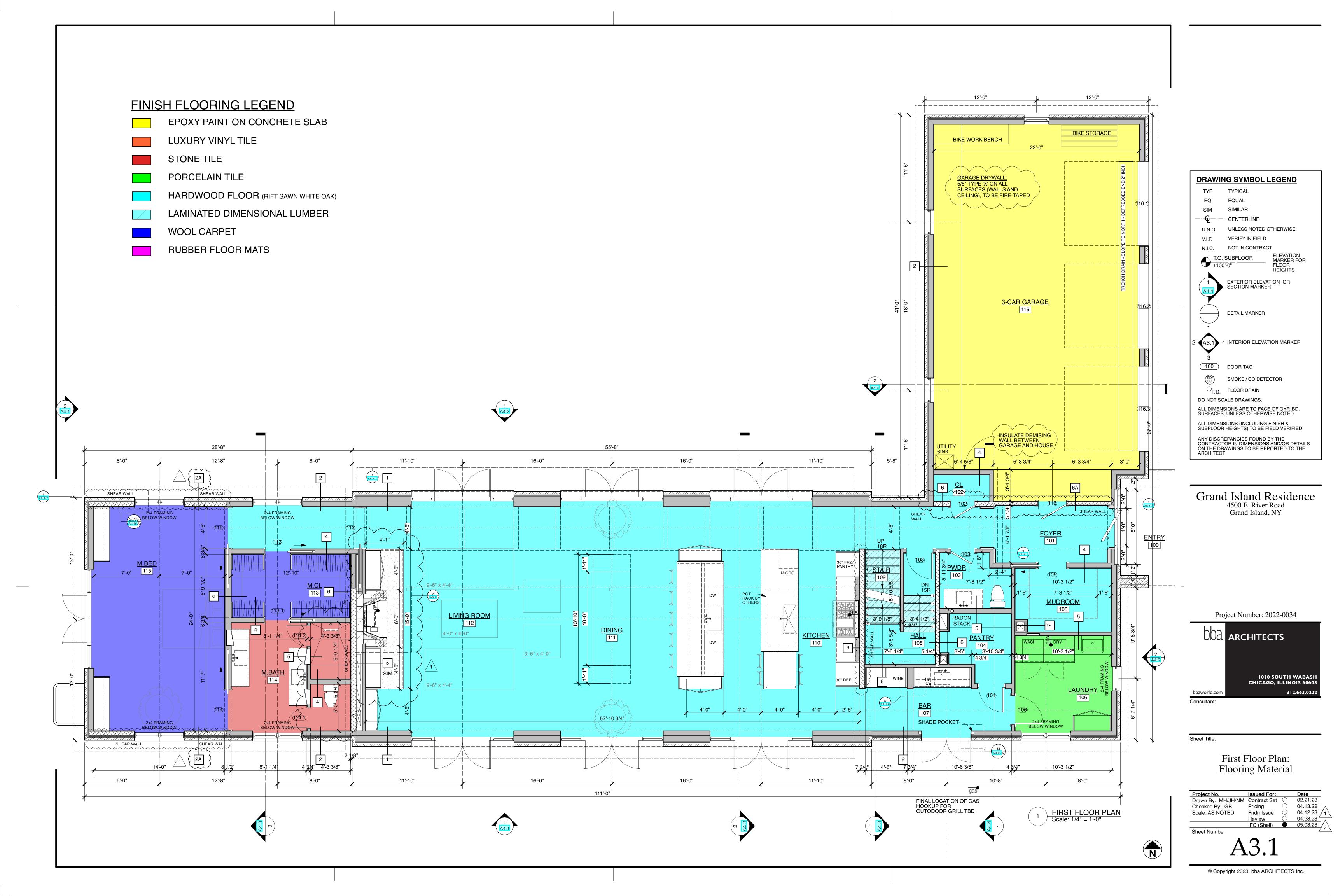
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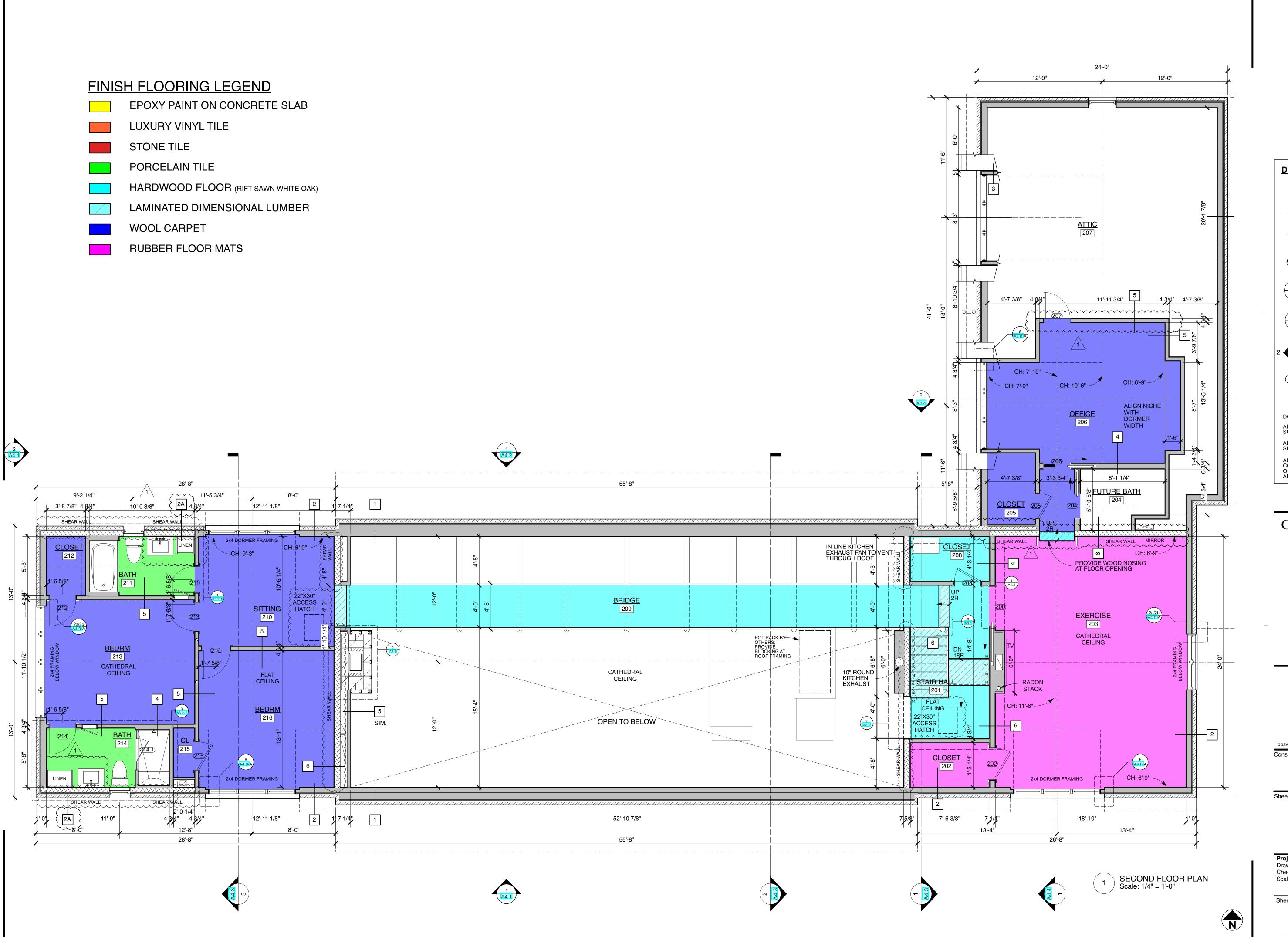


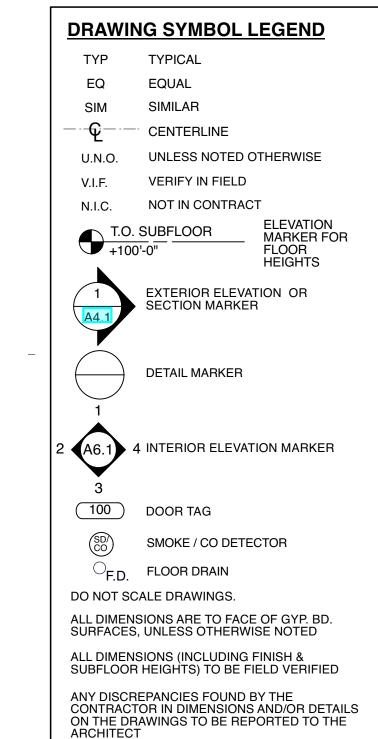
Basement Level Plan: Flooring Material

Project No.	Issued For:		Date
Drawn By: MH/JH/NM	Contract Set	\circ	02.21.23
Checked By: GB	Pricing	0	04.13.22
Scale: AS NOTED	Fndn Issue	0	04.12.23
	Review	0	04.28.23
	IFC (Shell)		05.03.23
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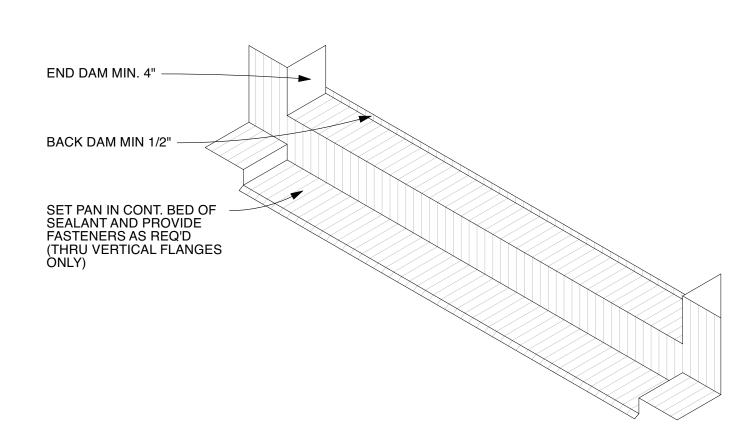


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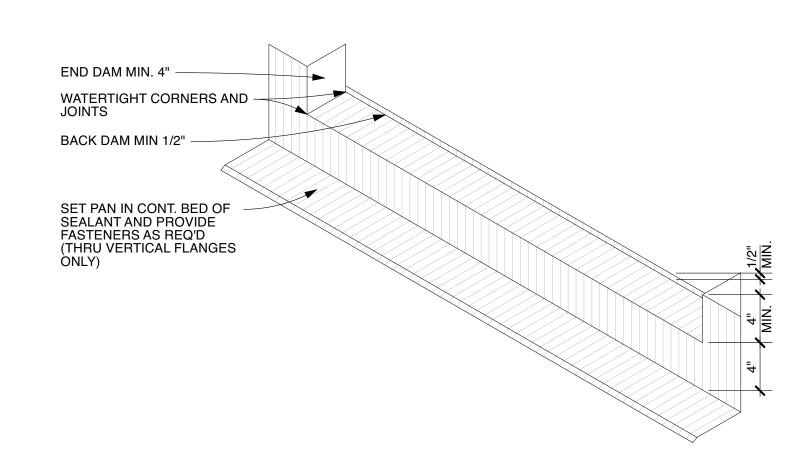


Second Floor Plan: Flooring Material

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COPPER PAN FLASHING DETAIL @ DOOR (B1, B) Scale: 1 1/2" = 1'-0"



COPPER PAN FLASHING DETAIL @ (J) DOOR, TYP.

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

			WINDOW SCHE	DULE		
EY UNIT NUMBER	UNIT TYPE	MANUF.	FRAME SIZE (W X H)	R.O. SIZE (W X H)	NAT. LIGHT	NAT. VENT REMARKS
A NOT USED						
B CUSTOM	FRENCH DOOR	JELD-WEN	5'-3 1/4" X 8'-10 7/8"	5'-4" x 8'-11 3/8"	26.2	46.8 DOUBLE PATIO DOOR, OUT SWING, PHANTOM SCREEN POCKET
B1 CUSTOM	FRENCH DOOR+SIDELITES	JELD-WEN	10'-8" X 8'-10"	10'-8 3/4" x 8'-10 1/2"	48.6	(2) 4" MULL, FIXED SIDE DOORS, DOUBLE PATIO DOOR, OUT SWING APPLIED PHANTOM SCREEN FRAME AND TRIM
C (2) SCC3278	MULLED CASEMENT	JELD-WEN	5'-4" x 6'-6"	5'-4 3/4" x 6'-6 3/4"	26.4	34.6
O (3) SCC3272	MULLED CASEMENT	JELD-WEN	8'-4" x 6'-0"	8'-4 3/4" x 6'-0 3/4"	36	48 (2) 2" MULL
SCC2436	CASEMENT	JELD-WEN	2'-0" x 3'-0"	2'-0 3/4" x 3'-0 3/4"	3.7	6
SCC3266	CASEMENT	JELD-WEN	2'-8" x 5'-6"	2'-8 3/4" x 5'-6 3/4"	10.8	14.6
1 SCC3660	CASEMENT	JELD-WEN	3'-0" x 5'-0"	3'-0 3/4" x 5'-0 3/4"	11.2	15 EGRESS
G (2) SCC3272	MULLED CASEMENT	JELD-WEN	5'-4" x 6'-0"	5'-4 3/4" x 6'-0 3/4"	23.8	32.11
(4) SCC3272	MULLED CASEMENT	JELD-WEN	10'-8"x 6'-0"	10'-8 3/4" x 6'-03/4"	47.7	64.22 FACTORY MULLED
H SCC3248	CASEMENT	JELD-WEN	2'-8" x 4'-0"	2'-8 3/4" x 4'-0 3/4"	7.61	10.7
J CUSTOM K (3) SCC3248	FRENCH DOOR+SIDELITES+TRANSOM	JELD-WEN	10'- 11 1/2"x10'-1 3/4"	11'-0 1/4" x 10'-2 1/2"	40.3	MULL VERTICAL AND HORIZONTAL, OUT SWING. APPLIED PHANTON 78.8 SCREEN FRAME AND TRIM
K * (3) SCC3248 \	MULLED CASEMENT	JELD-WEN	8'-4" x 4'-0"	8'-4 3/4" x 4'-0 3/4"	15.82	8.47 (2) 2" MULL

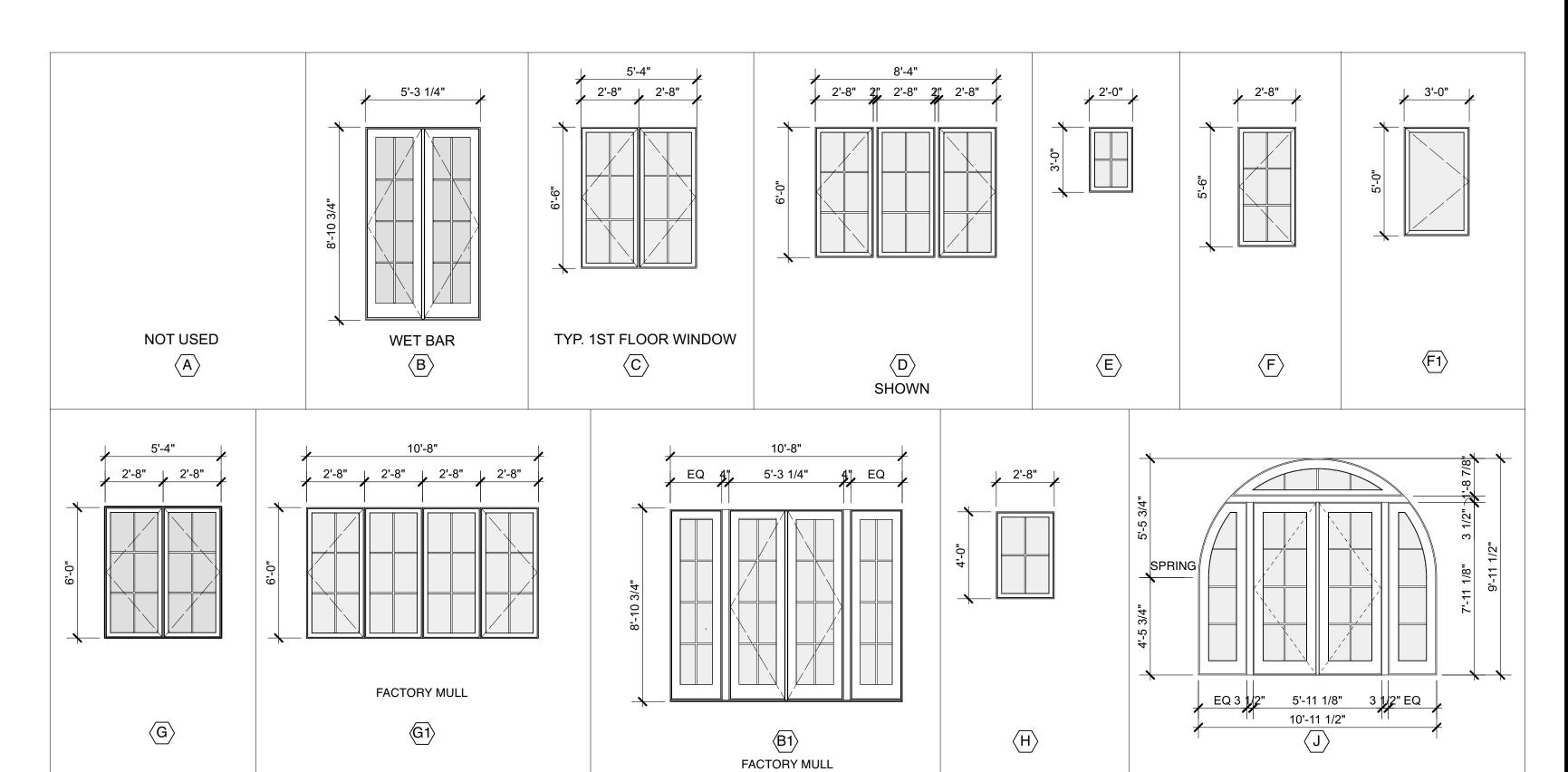
1 ALL WINDOWS ARE TO BE JELDWEN 'SITELINE', U.O.N.

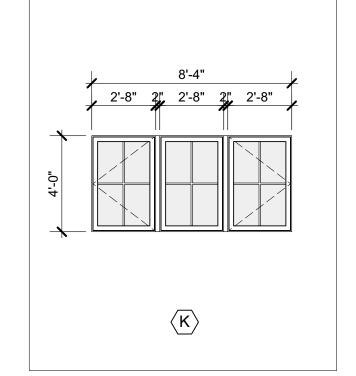
2 SEE ELEVATIONS FOR MUNTIN CONFIGURATION AT ALL WINDOWS

3 SEE ELEVATIONS FOR CASEMENT SWING DIRECTION, NO INDICATION OF SWING = FIXED UNIT

4 ALL WINDOWS TO HAVE INSULATED & LOW-E GLAZING
5 ALL GLAZED DOORS TO HAVE MULTI-POINT LOCKING SYSTEM & PHANTOM SCREEN DOORS, AND ALUMINUM SILLS.
6 ALL WINDOW EXTERIOR TO BE ALUMINUM CLAD IN STANDARD COLOR

7 ALL INTERIOR SCREENS AND HARDWARE TO BE WHITE
8 ALL WINDOWS TO HAVE PRIMED INTERIOR, UNLESS NOTED OTHERWISE
9 ALL DOORS TO BE KEYED ALIKE, AND TO BE KEYLESS IN DIRECTION OF EGRESS





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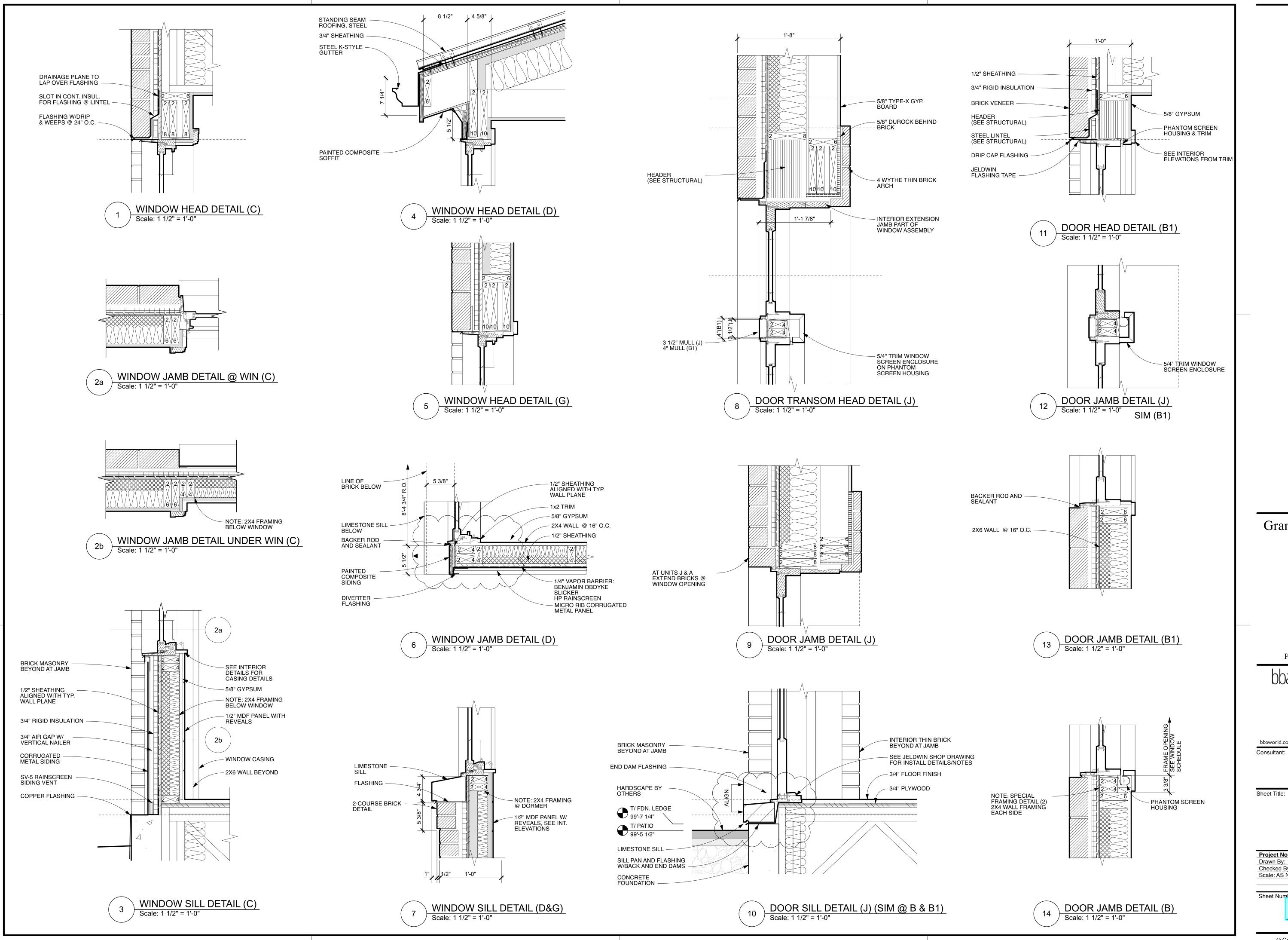


Consultant:

Window Schedule & Types

Project No.	Issued For:		Date
Drawn By: MH/JH	Contract Set	\bigcirc	02.21.23
Checked By: GB	Pricing Set	\bigcirc	09.30.22
Scale: AS NOTED	Rev Pricing	\bigcirc	11.28.22
	Review	\bigcirc	04.28.23
	IFC-Shell/Core		05.03.23

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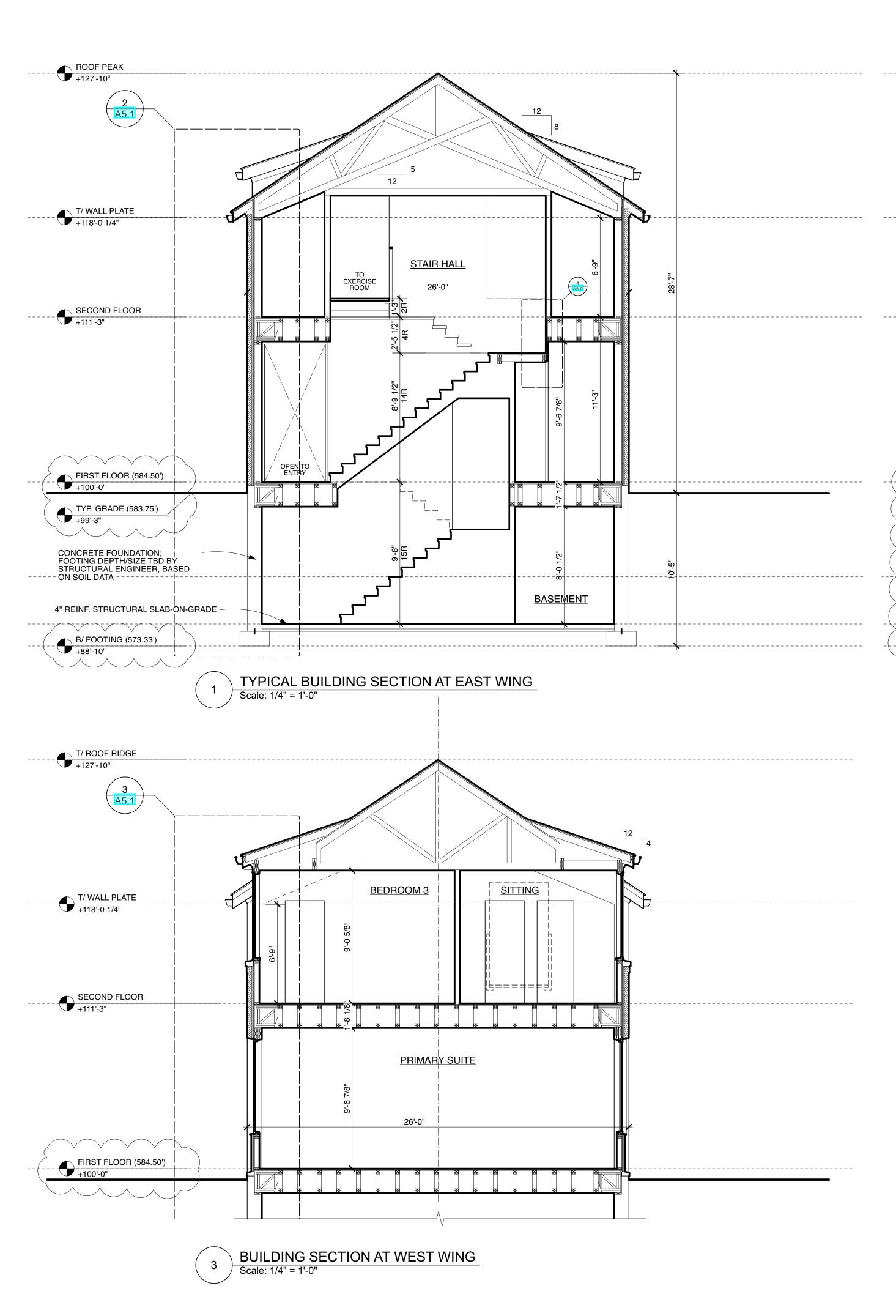


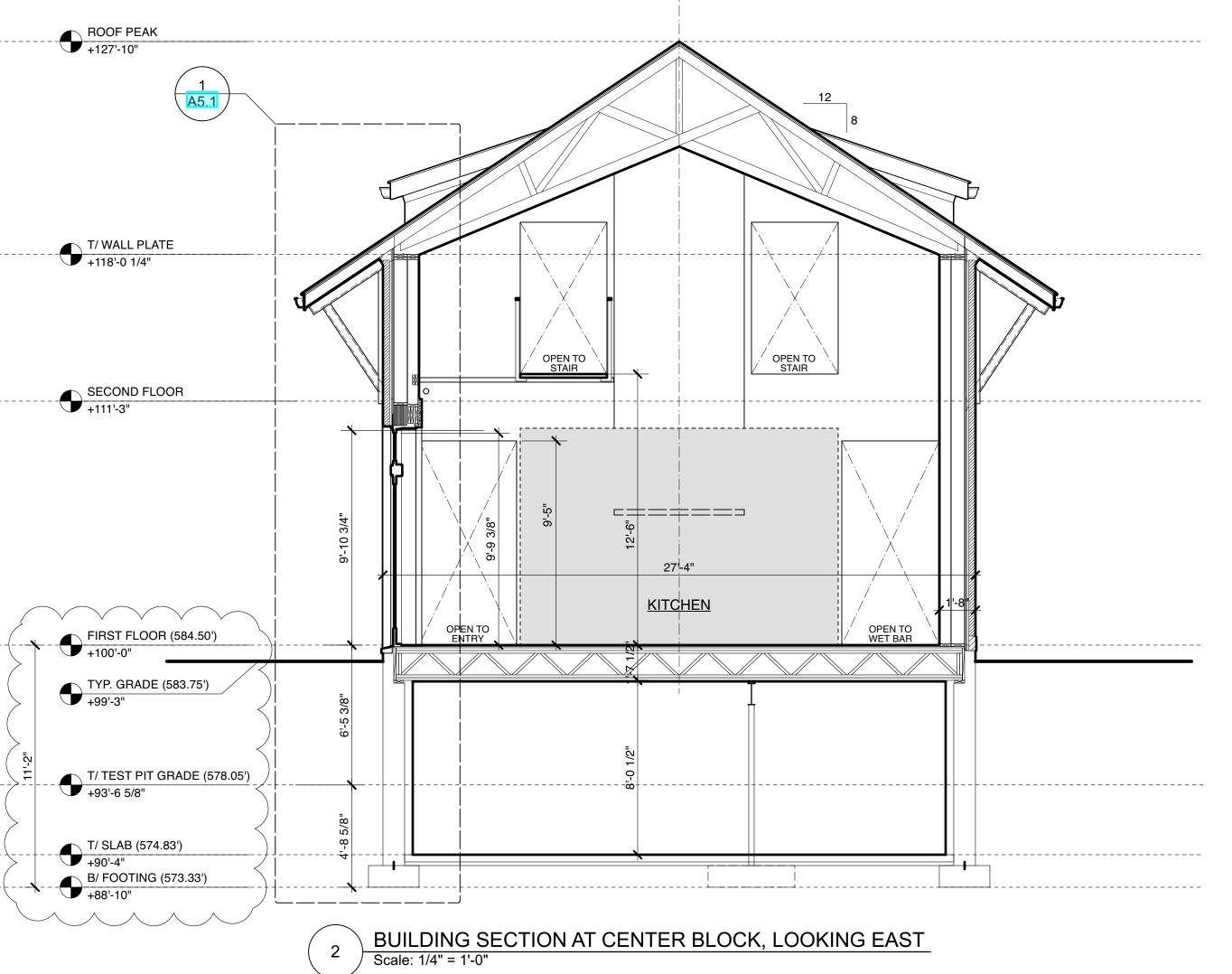
Window Details

Project No. Drawn By: MH/JH	Issued For: Contract Set	Date 02.21.23
Checked By: GB	Pricing Set	09.30.22
Scale: AS NOTED	Rev Pricing	11.28.22
	Review	04.28.23
	IFC-Shell/Core	05.03.23
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Project Number: 2022-0034

ARCHITECTS

I010 SOUTH WABASH CHICAGO, ILLINOIS 60605

bbaworld.com

312.663.0222

Consultant:

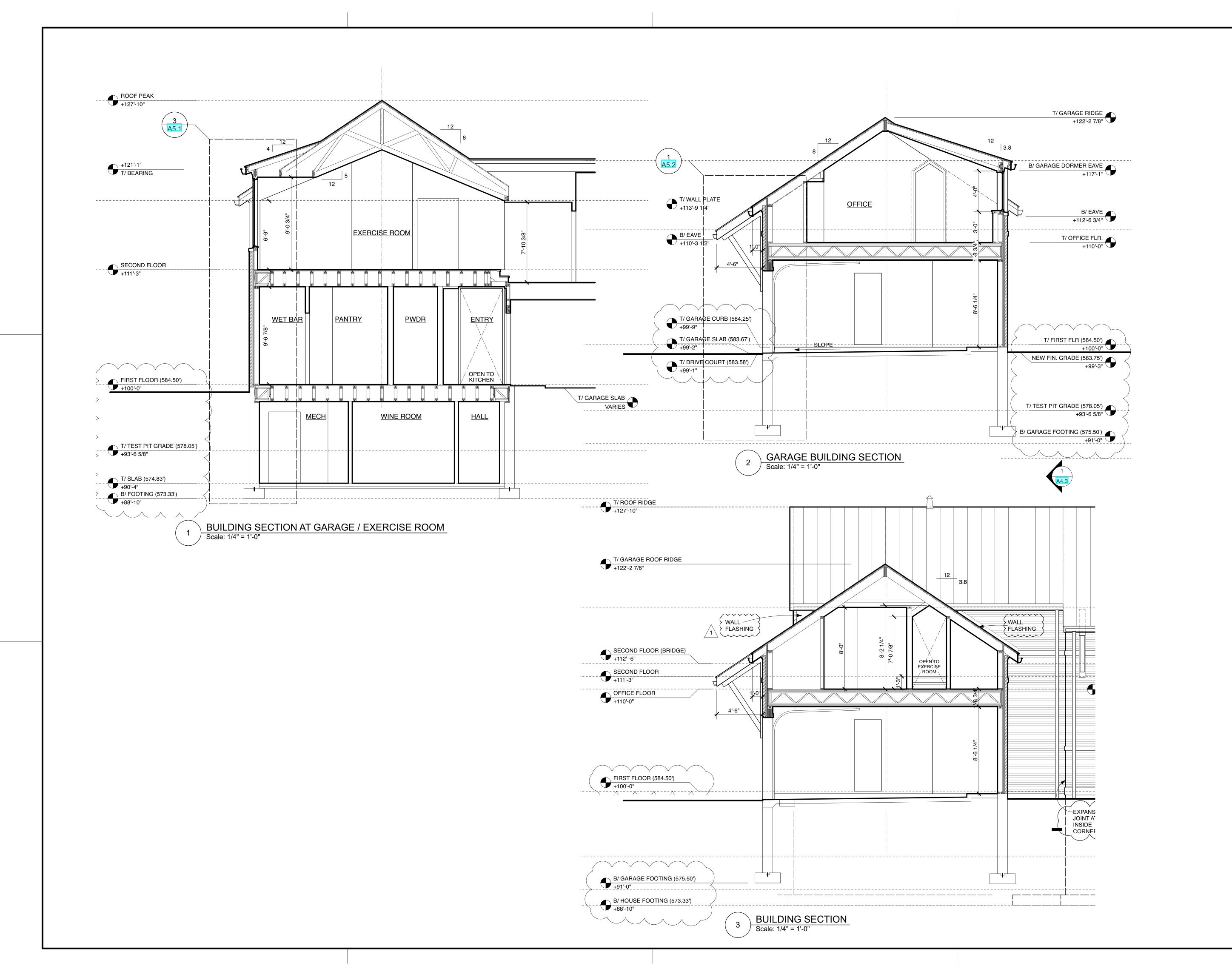
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Building Sections

Project No.Issued For:DateDrawn By:MH/JHContract Set02.21.23Checked By:GBReview04.28.23Scale:AS NOTEDIFC-Shell/Core05.03.23REV.CCD Elevations06.09.23

Sheet Number

A4.3



Project Number: 2022-0034



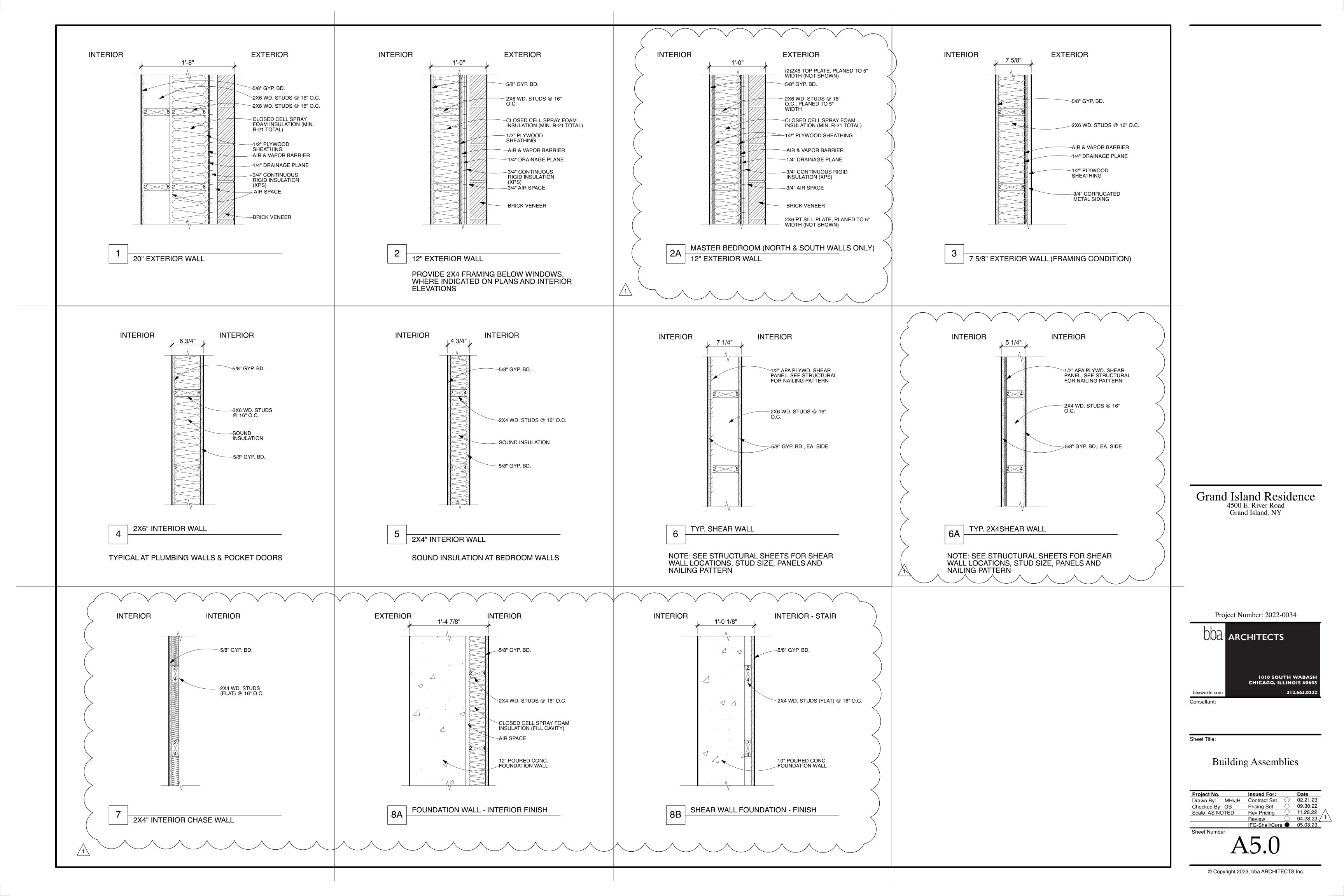
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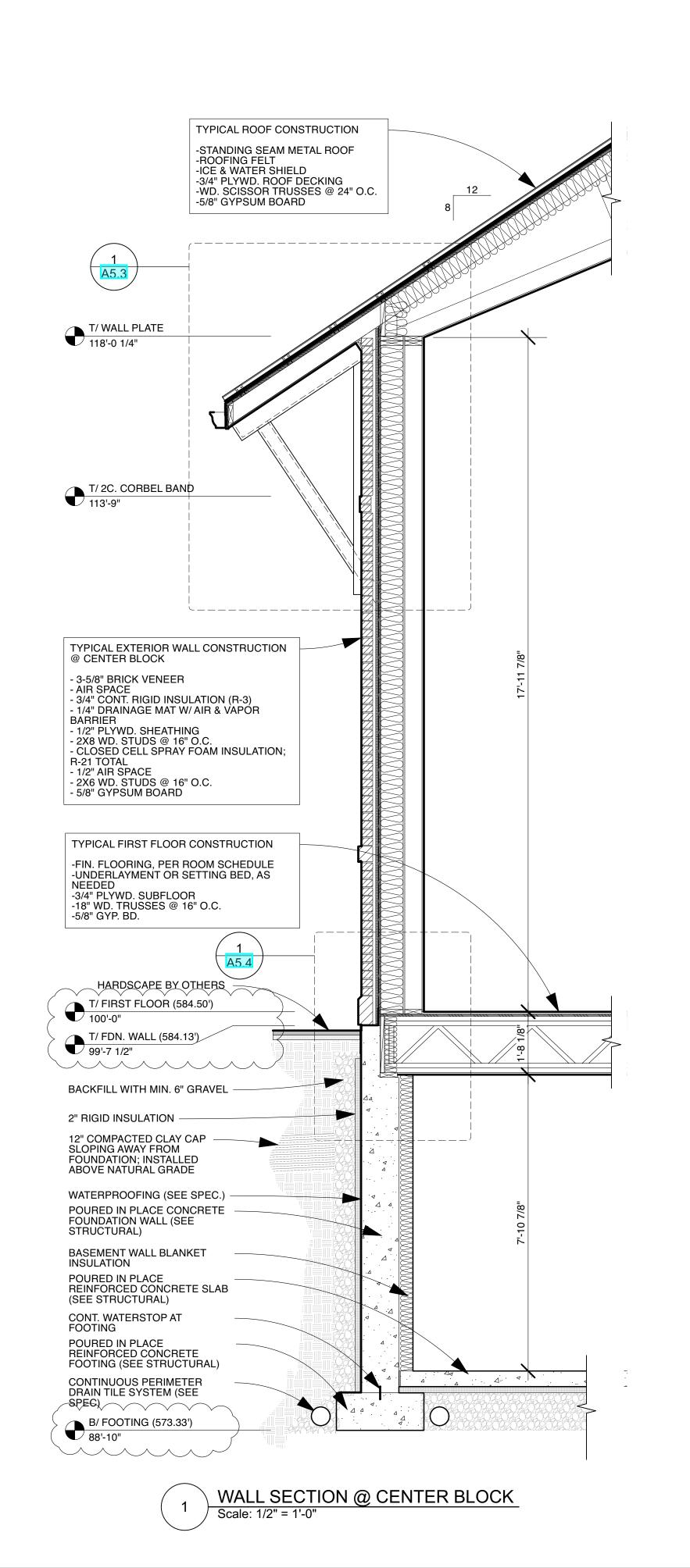
Building Sections

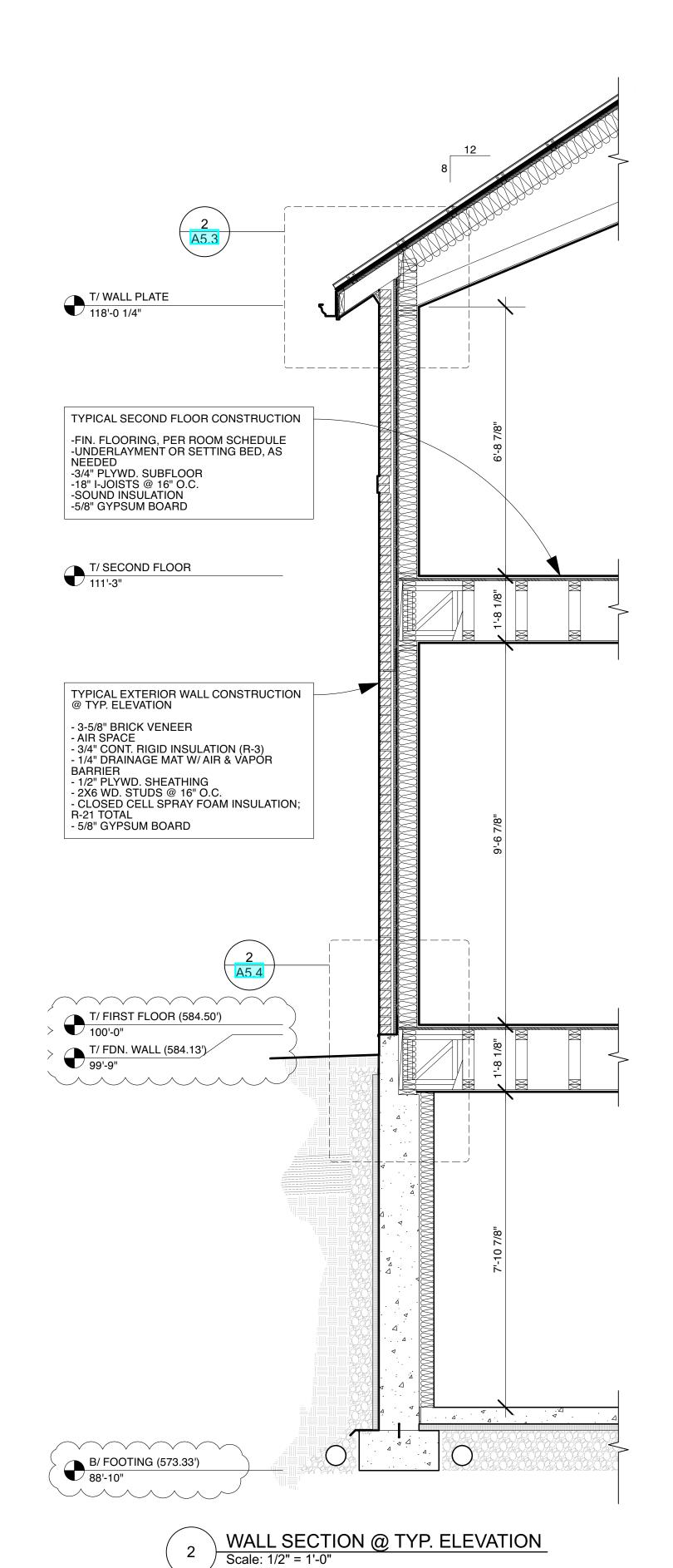
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Drawn By:	MH/JH	Contract Set	\circ	02.21.23
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	REV.	CCD Elevation	s •	06.09.23 /

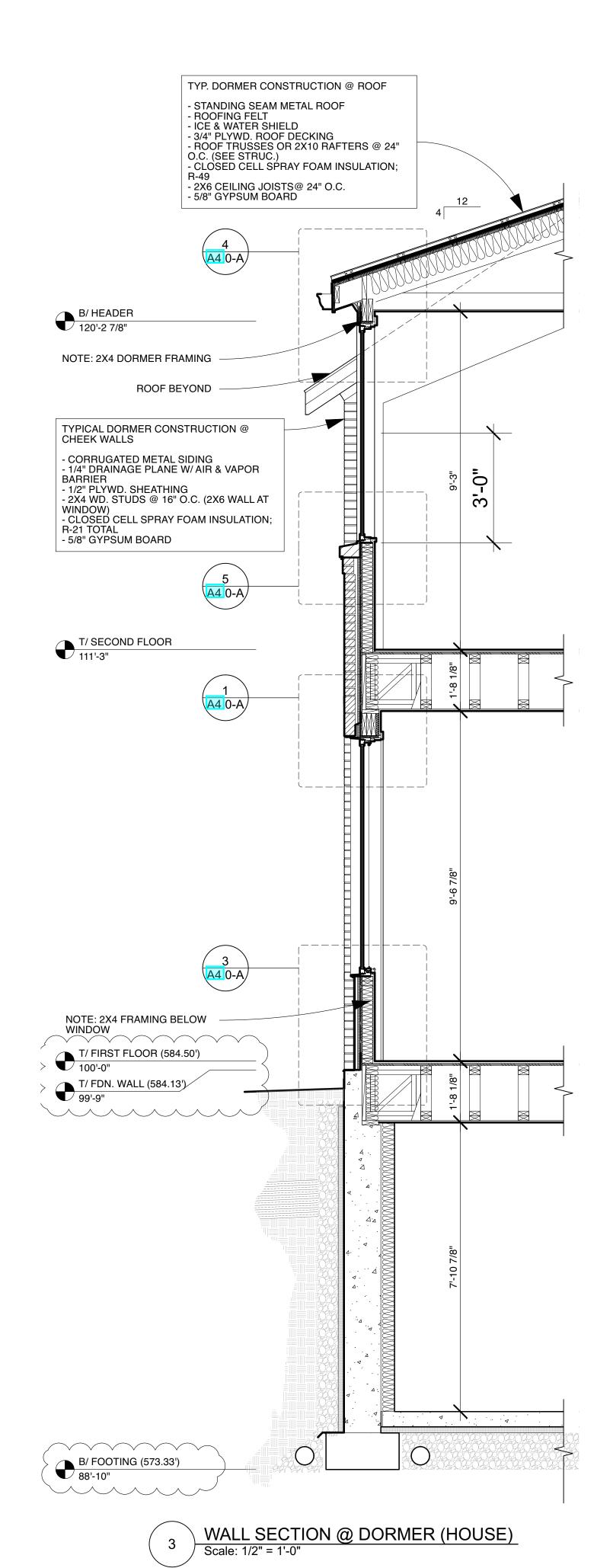
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Grand Island Residence 4500 E. River Road

Grand Island, NY

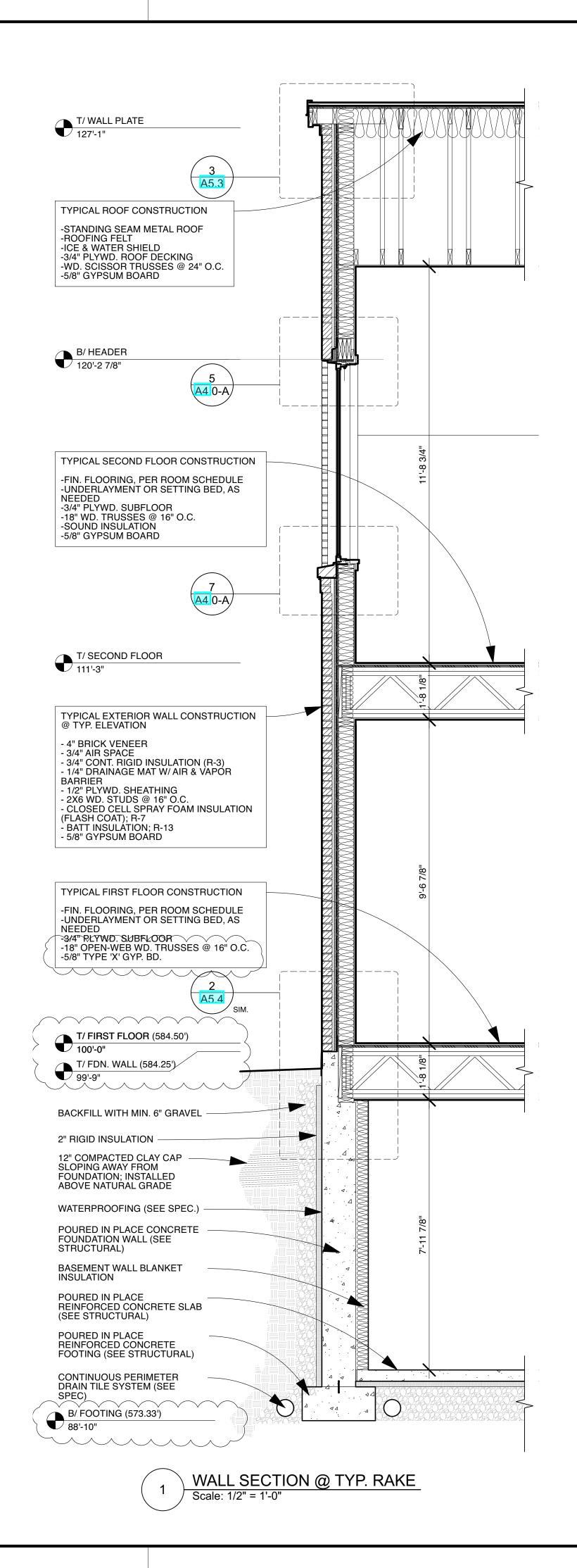
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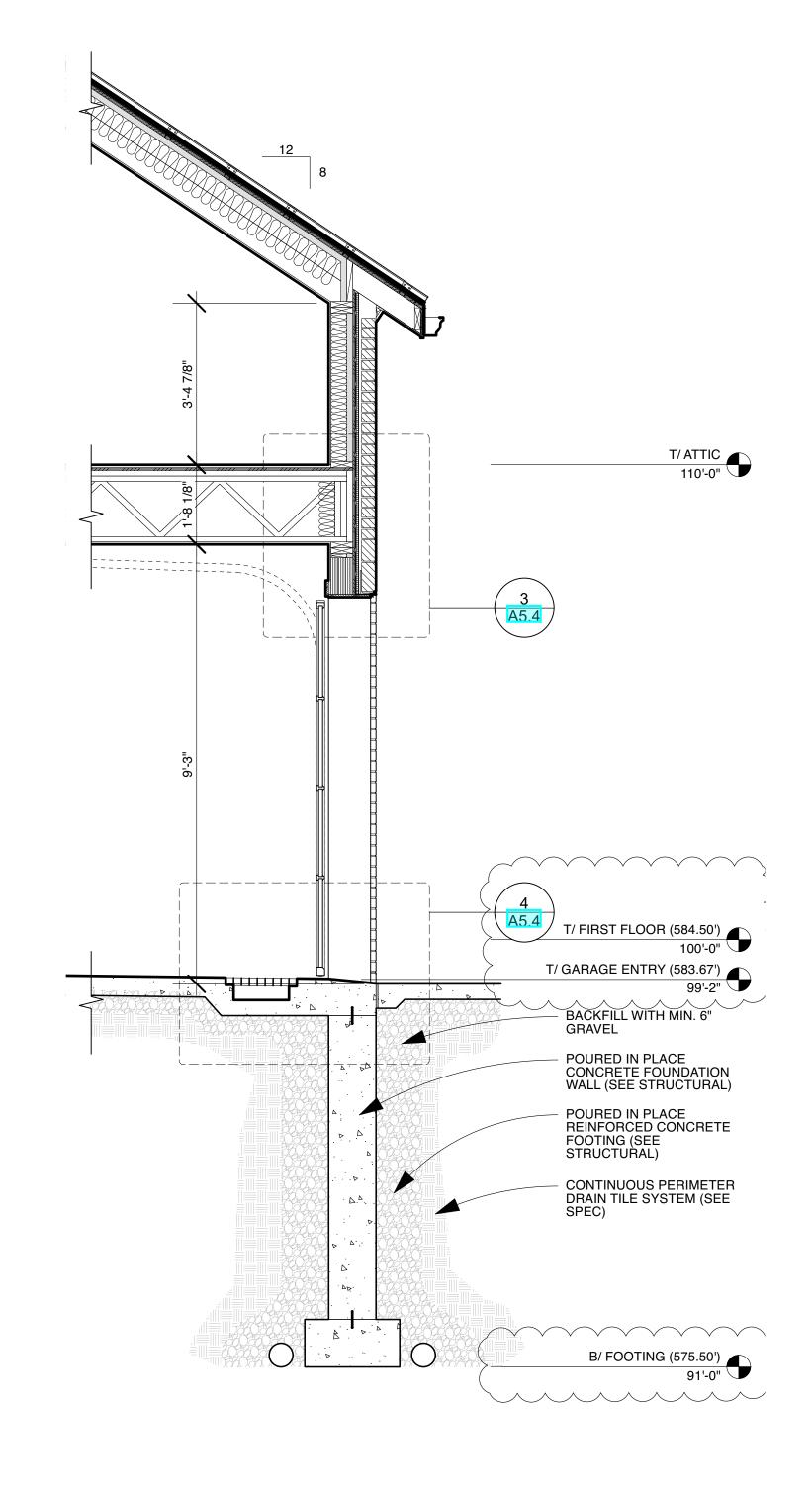


Wall Sections & Details

Project No.		Issued For:		Date
Drawn By:	MH/JH	Contract Set	\circ	02.21.23
Checked By	: GB	Review	\circ	04.28.23
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	REV.	. CCD Elevation	s •	06.09.23

Sheet Number





WALL SECTION @ GARAGE
Scale: 1/2" = 1'-0"

Grand Island Residence 4500 E. River Road

Grand Island, NY

Project Number: 2022-0034



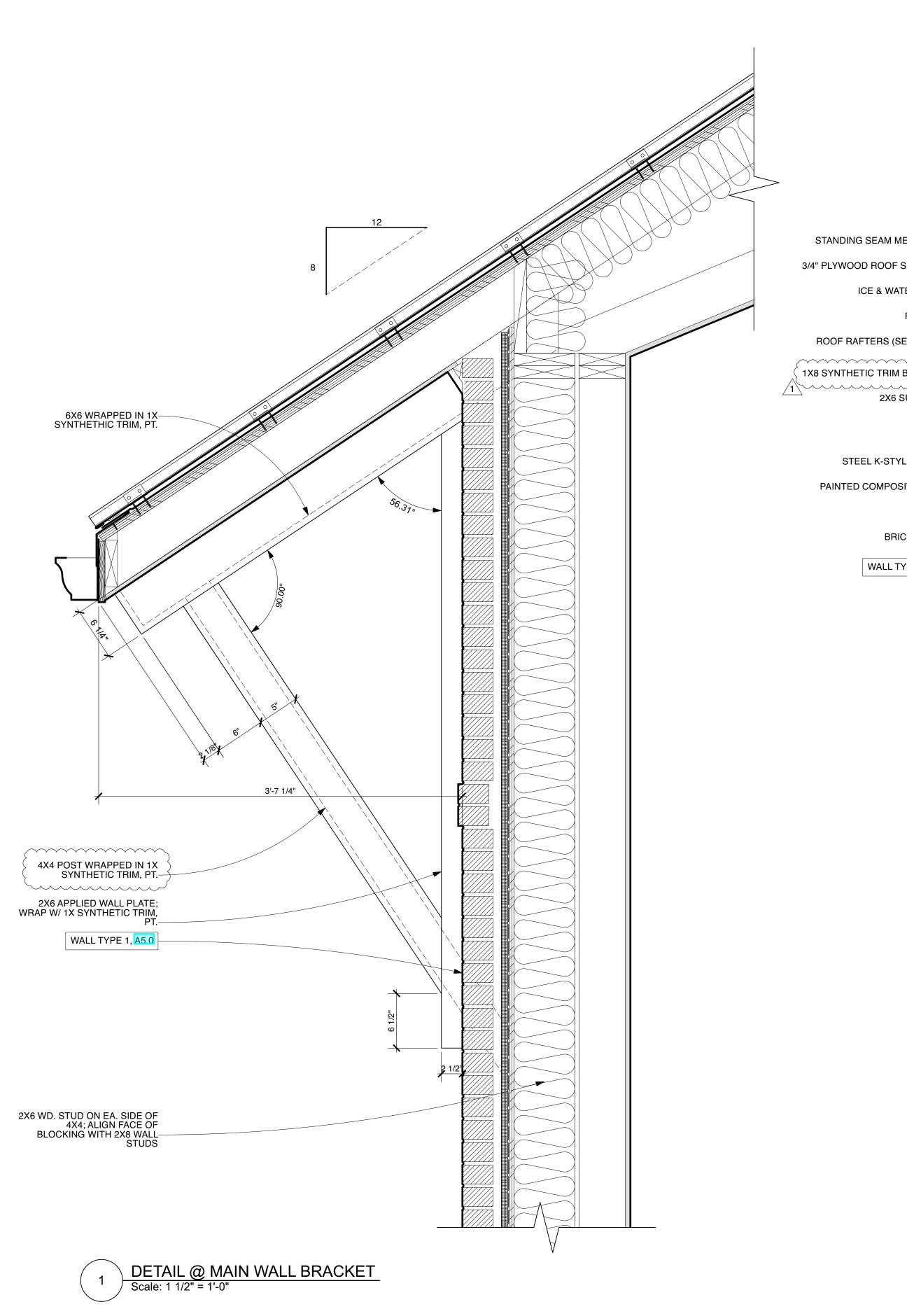
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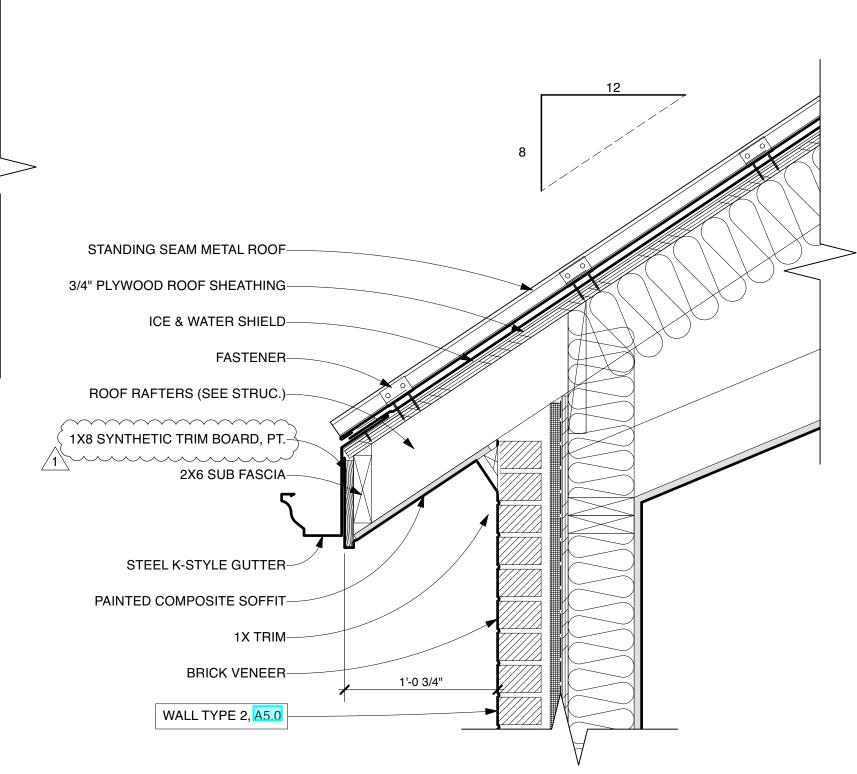
Wall Sections & Details

Project No.		Issued For:		Date
Drawn By:	MH/JH	Contract Set	\circ	02.21.23
Checked By:	GB	Review	\bigcirc	04.28.23
Scale: AS NO		IFC-Shell/Core	• O	05.03.23 ^Z
	REV.	. CCD Elevations	s •	06.09.23

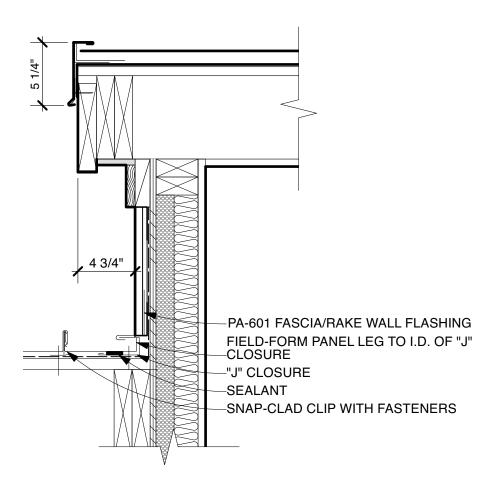
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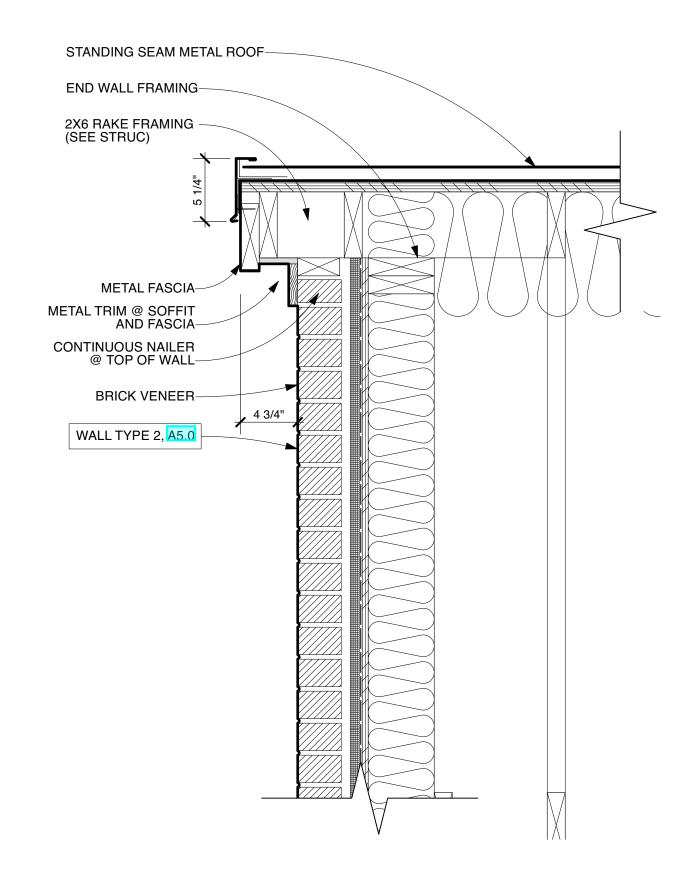




2 DETAIL @ TYP. EAVE
Scale: 1 1/2" = 1'-0"



4 ROOF RAKE DETAIL @ DORMER
Scale: 1 1/2" = 1'-0"



3 DETAIL @ TYP. RAKE
Scale: 1 1/2" = 1'-0"

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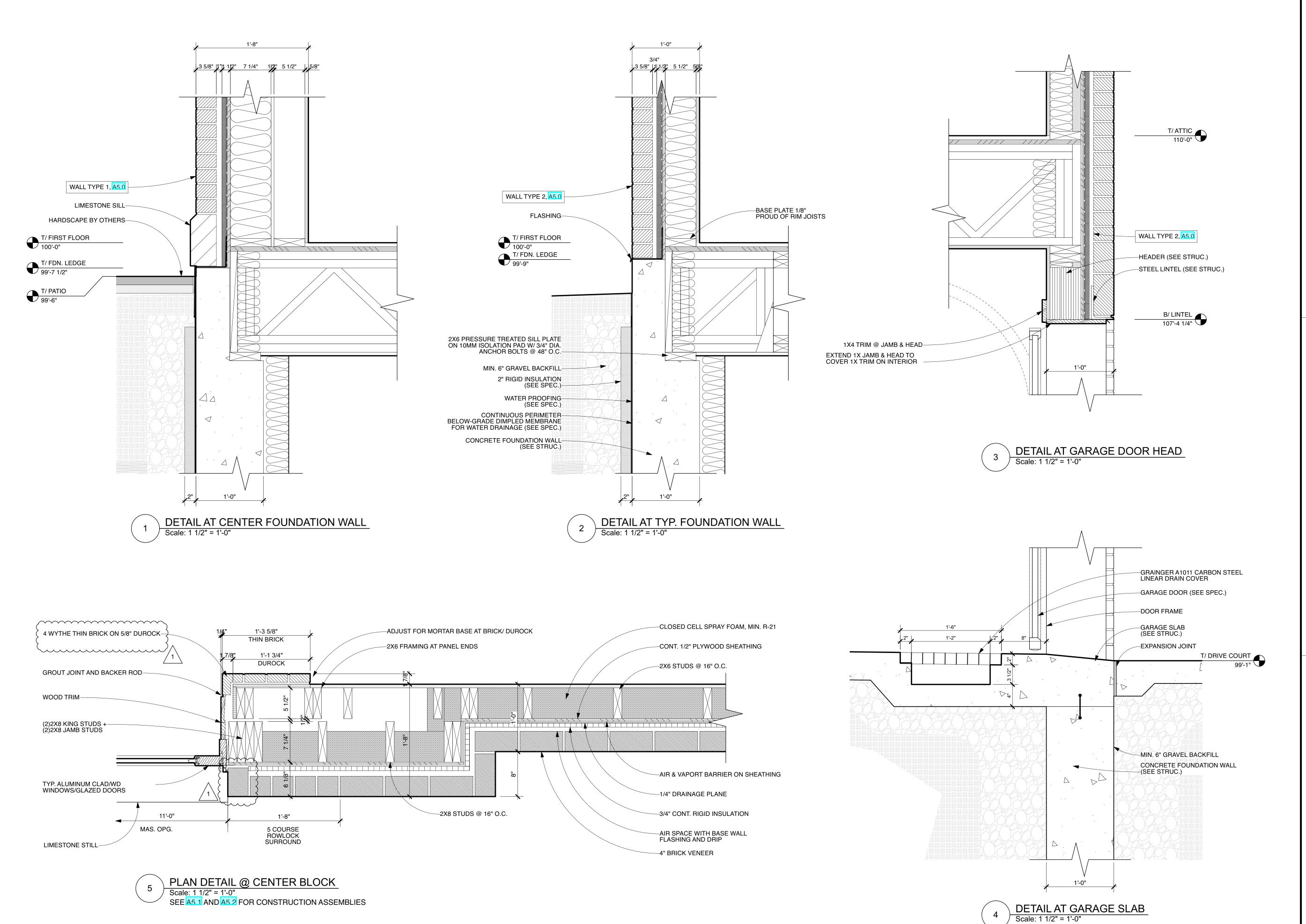


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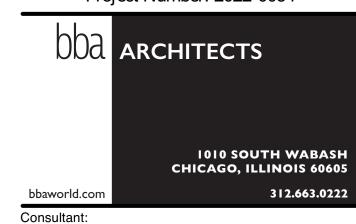
Wall Sections & Details

Project No.		Issued For:		Date
Drawn By:	MH/JH	Contract Set	\circ	02.21.23
Checked By:	GB	Review	\bigcirc	04.28.23
Scale: AS NO	OTED	IFC-Shell/Core	e 🔾	05.03.23
	REV	. CCD Elevations	s 🌑	06.09.23

Sheet Number



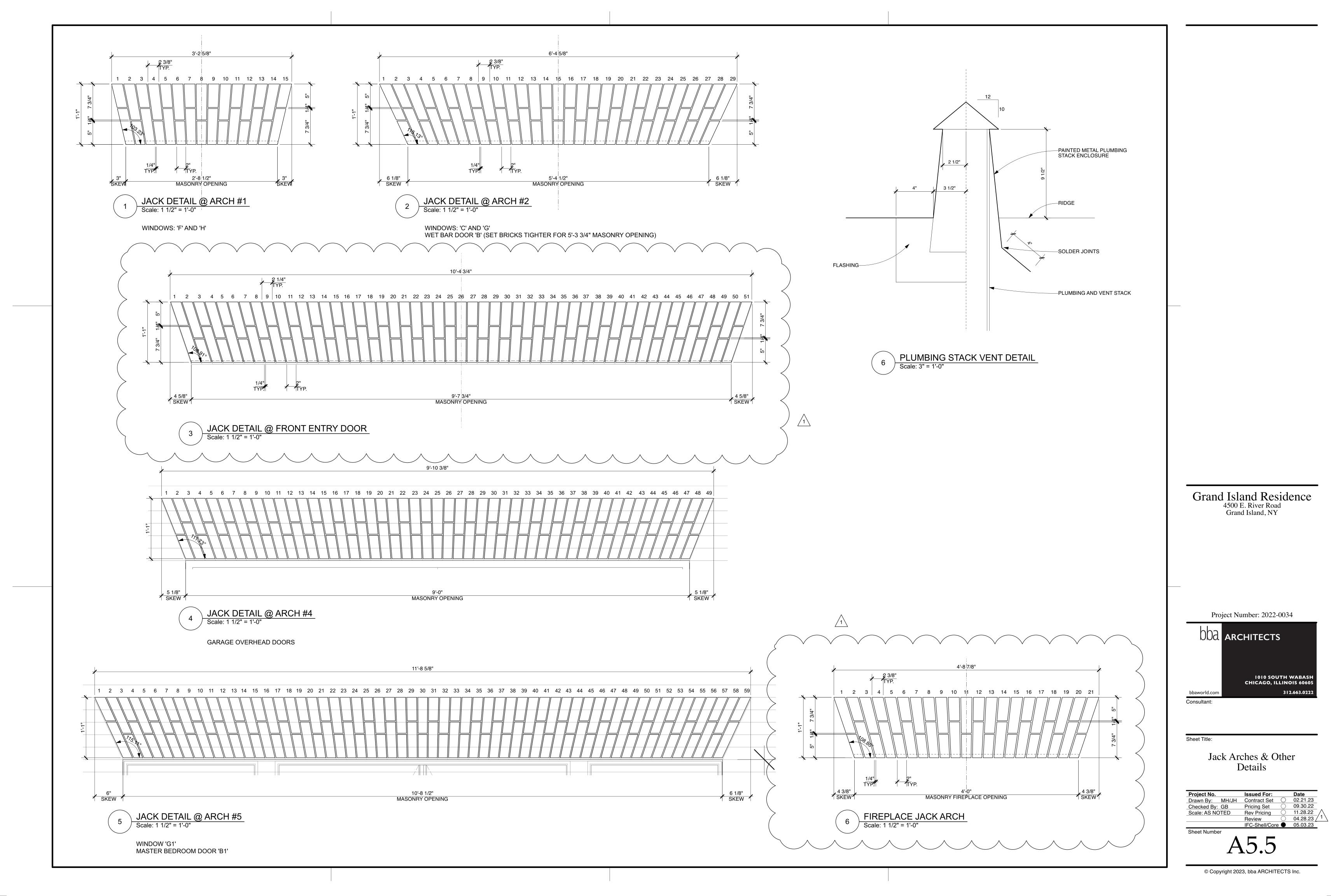
Project Number: 2022-0034

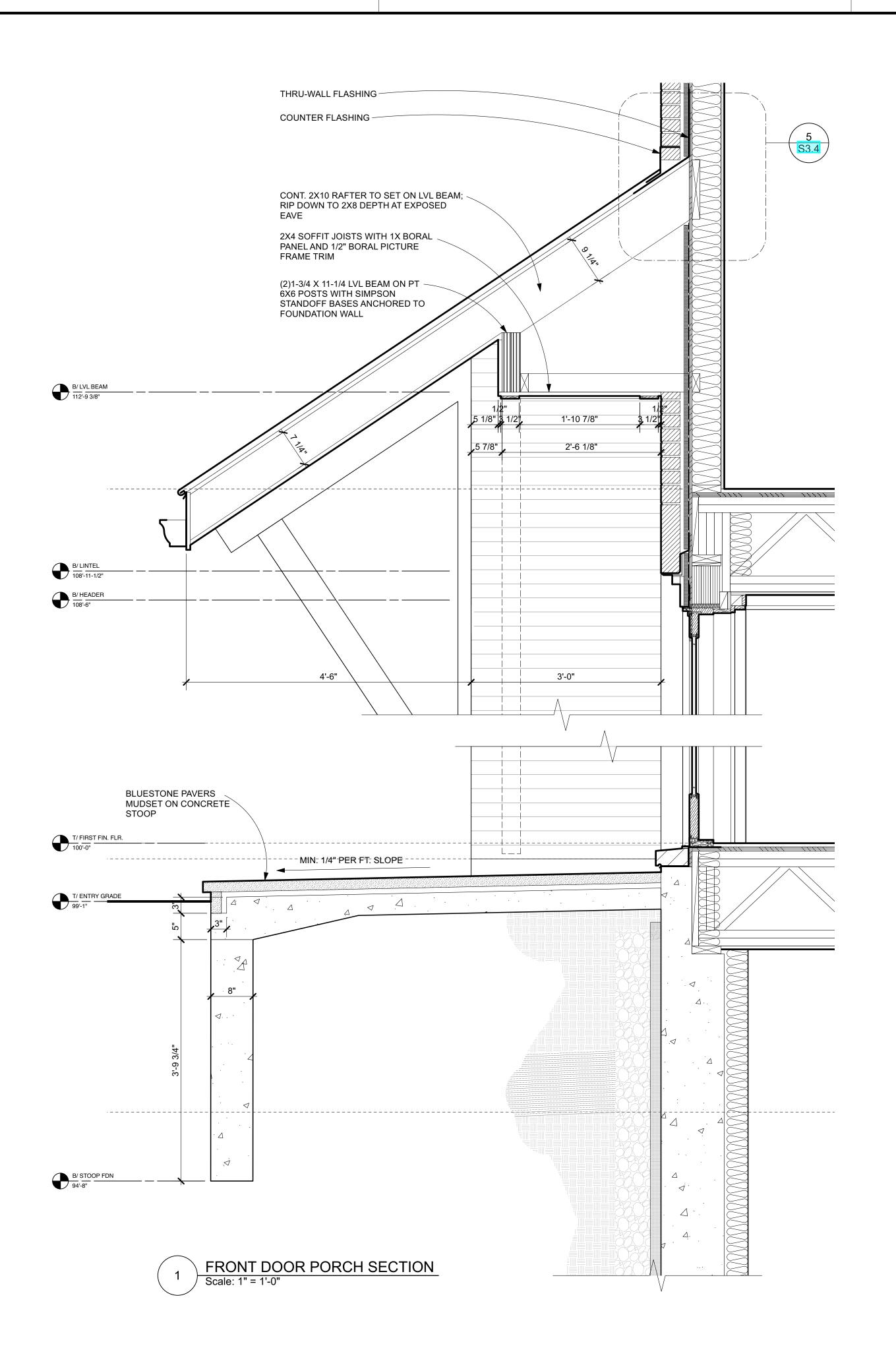


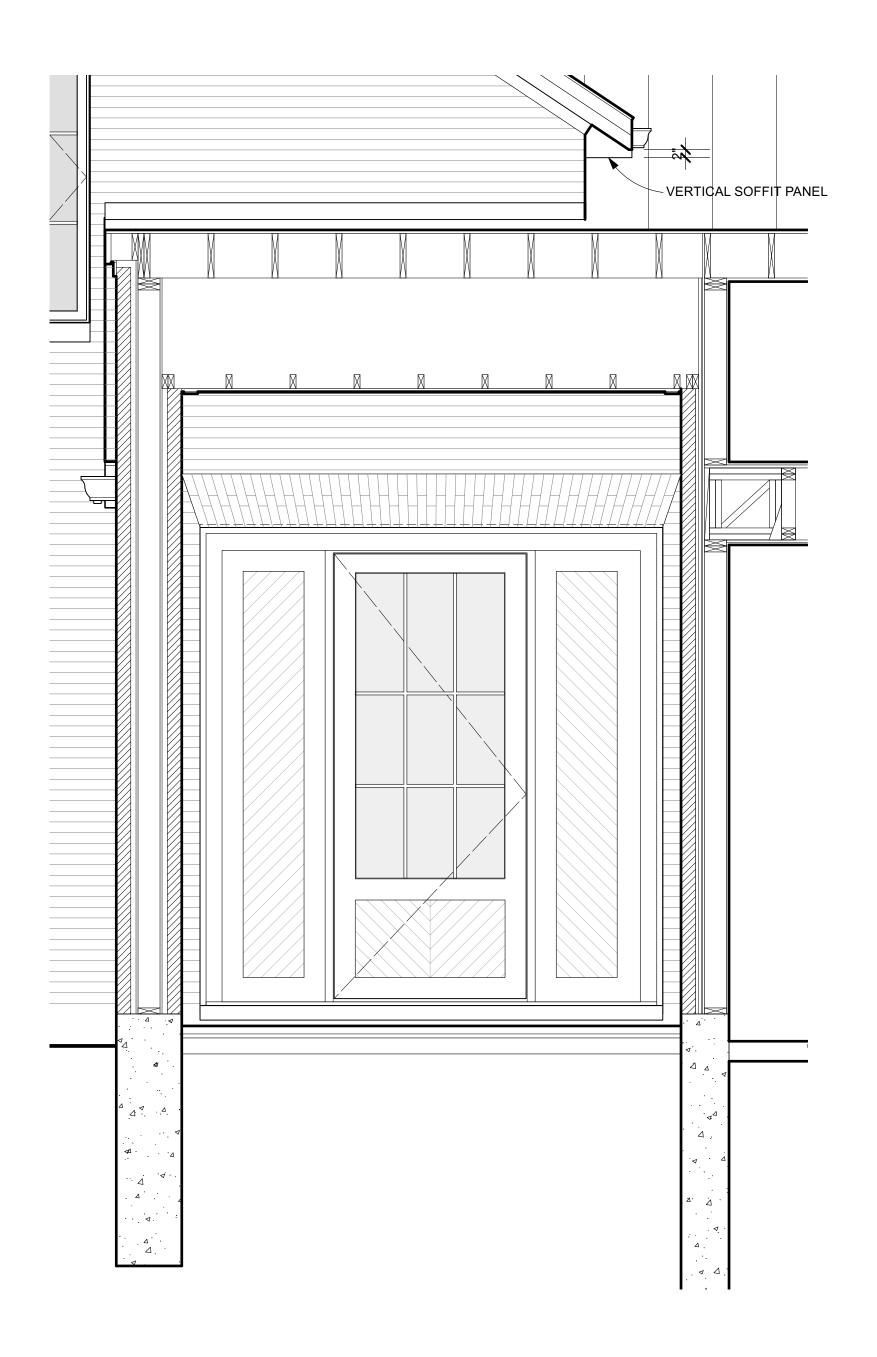
Wall Sections & Details

Project No.	Issued For:	Date
Drawn By: MH/J	H Contract Set	02.21.23
Checked By: GB	Review	04.28.23
Scale: AS NOTED	IFC-Shell/Core	05.03.23
R	EV. CCD Elevations	06.09.23

Sheet Number







2 FRONT ENTRY ELEVATION
Scale: 1/2" = 1'-0"

Grand Island Residence
4500 E. River Road
Grand Island, NY

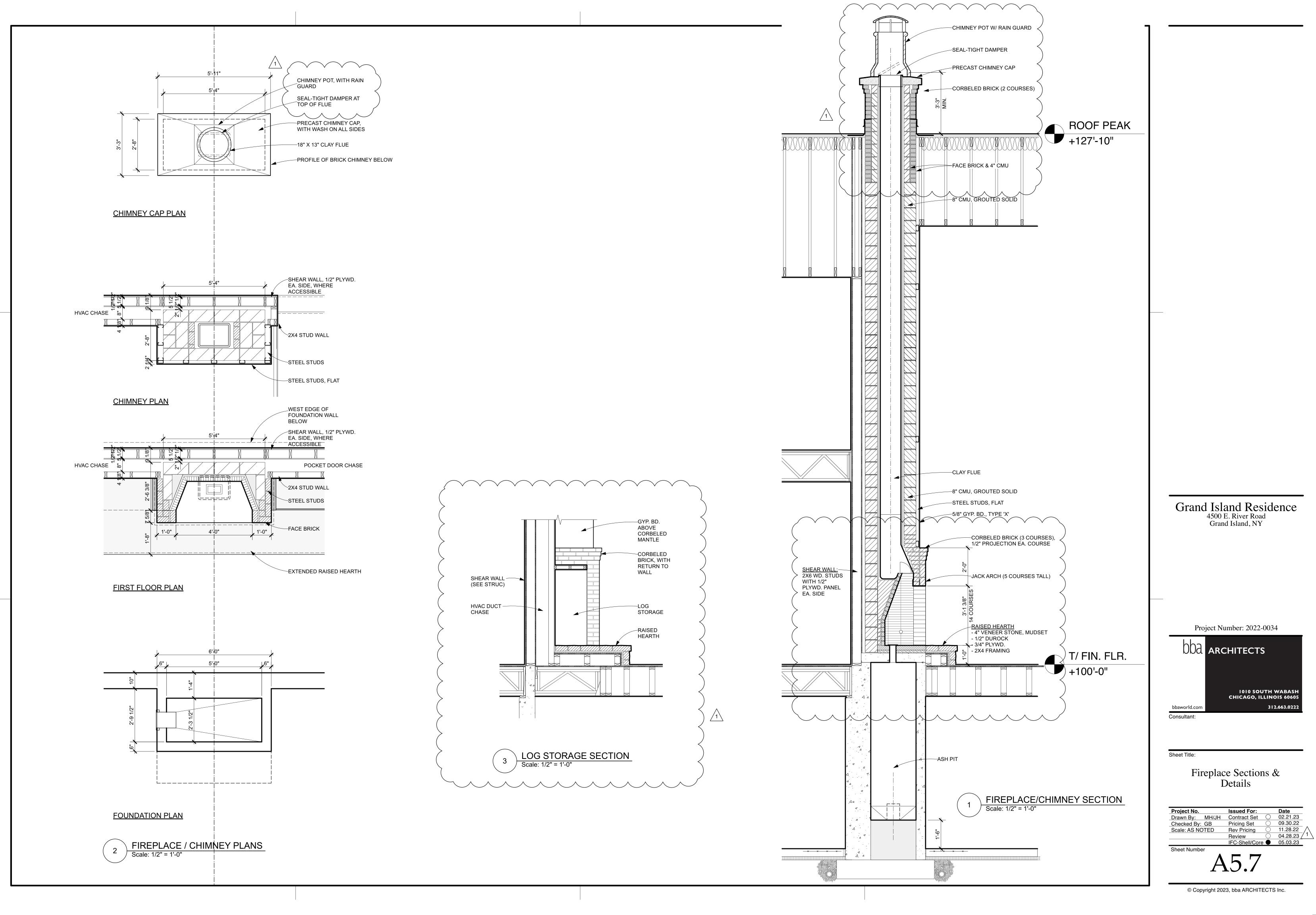
Project Number: 2022-0034

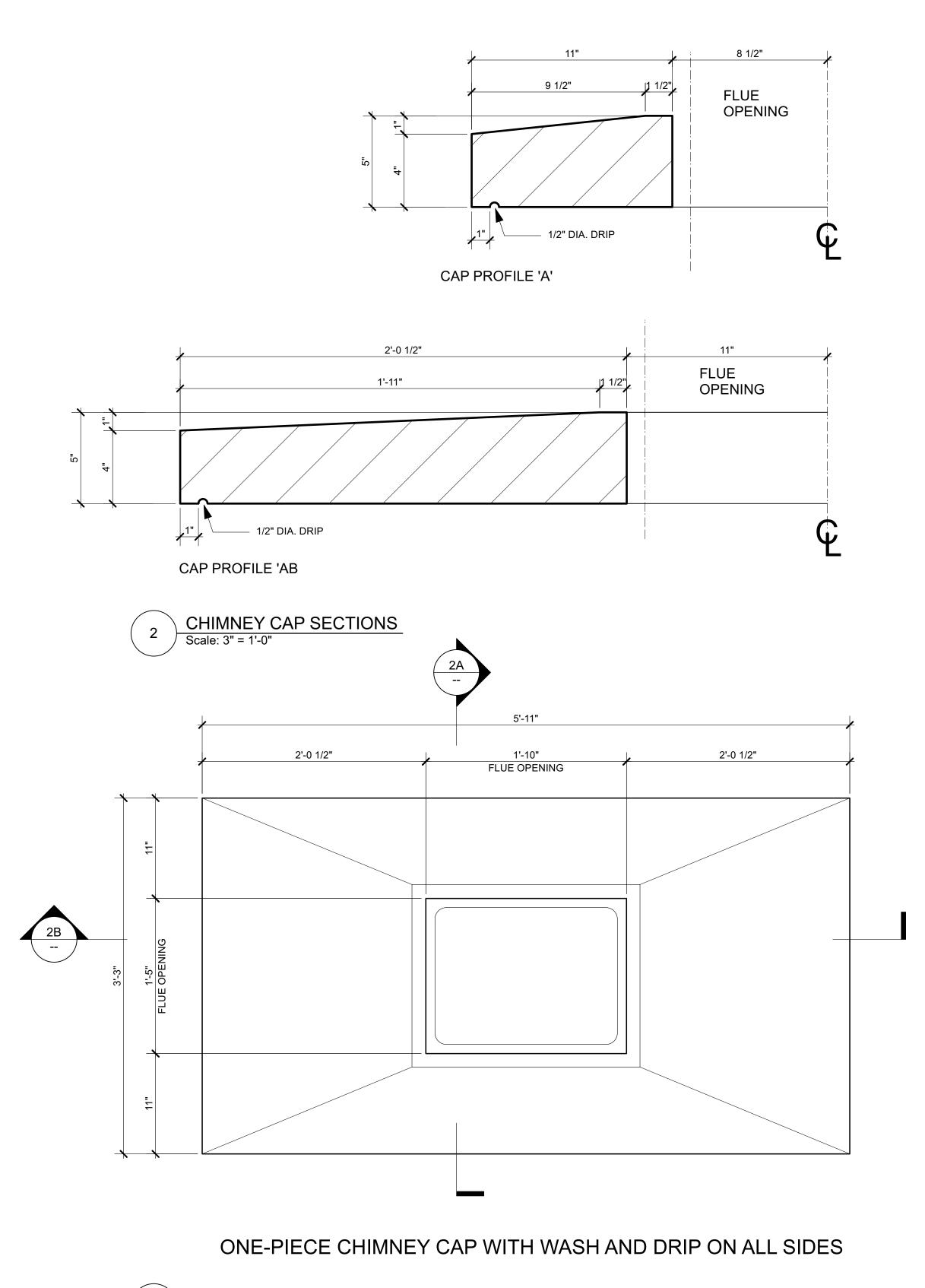


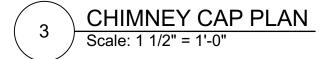
Front Entry Door / Porch

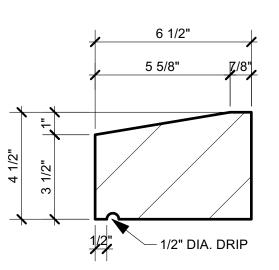
Project No.	Issued For:	Date
Drawn By: MH/JH	Contract Set O	02.21.23
Checked By: GB	Pricing Set	09.30.22
Scale: AS NOTED	Rev Pricing	11.28.22
	Review	04.28.23 /
	IFC-Shell/Core ●	05.03.23
Sheet Number		

A5.6

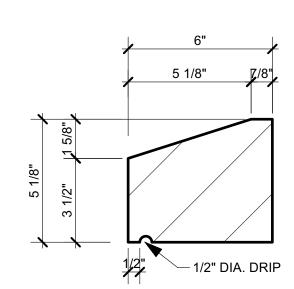




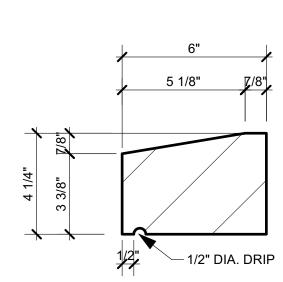




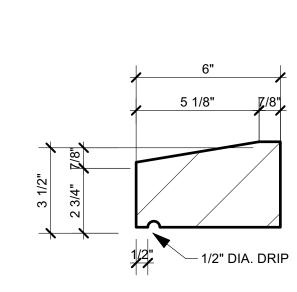
WINDOWS 'D', 'E', 'G' AND 'G1'



WINDOW 'F'

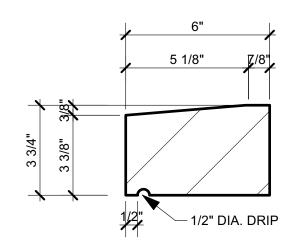


WINDOW 'H'

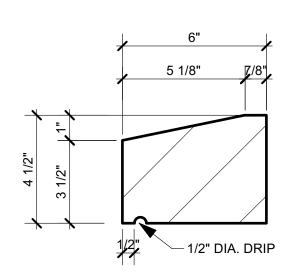


WINDOW 'K'

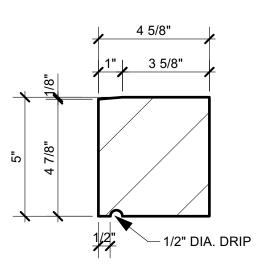




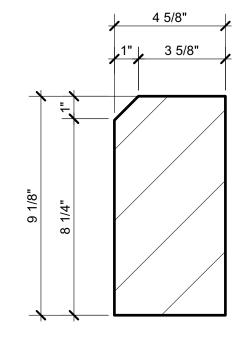
FRONT DOOR, DOORS 'B' AND 'J'



DOOR 'B1'



BAND AT DOOR 'J' SPRING POINT



WATERTABLE AT CENTER BLOCK

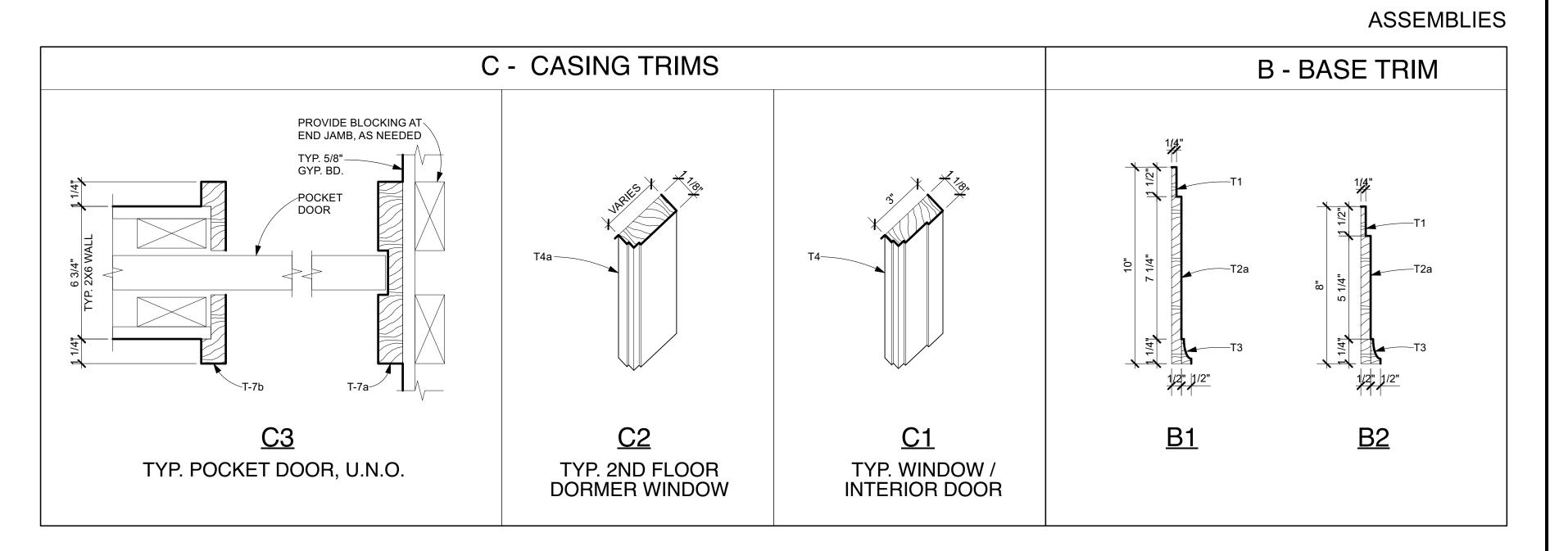




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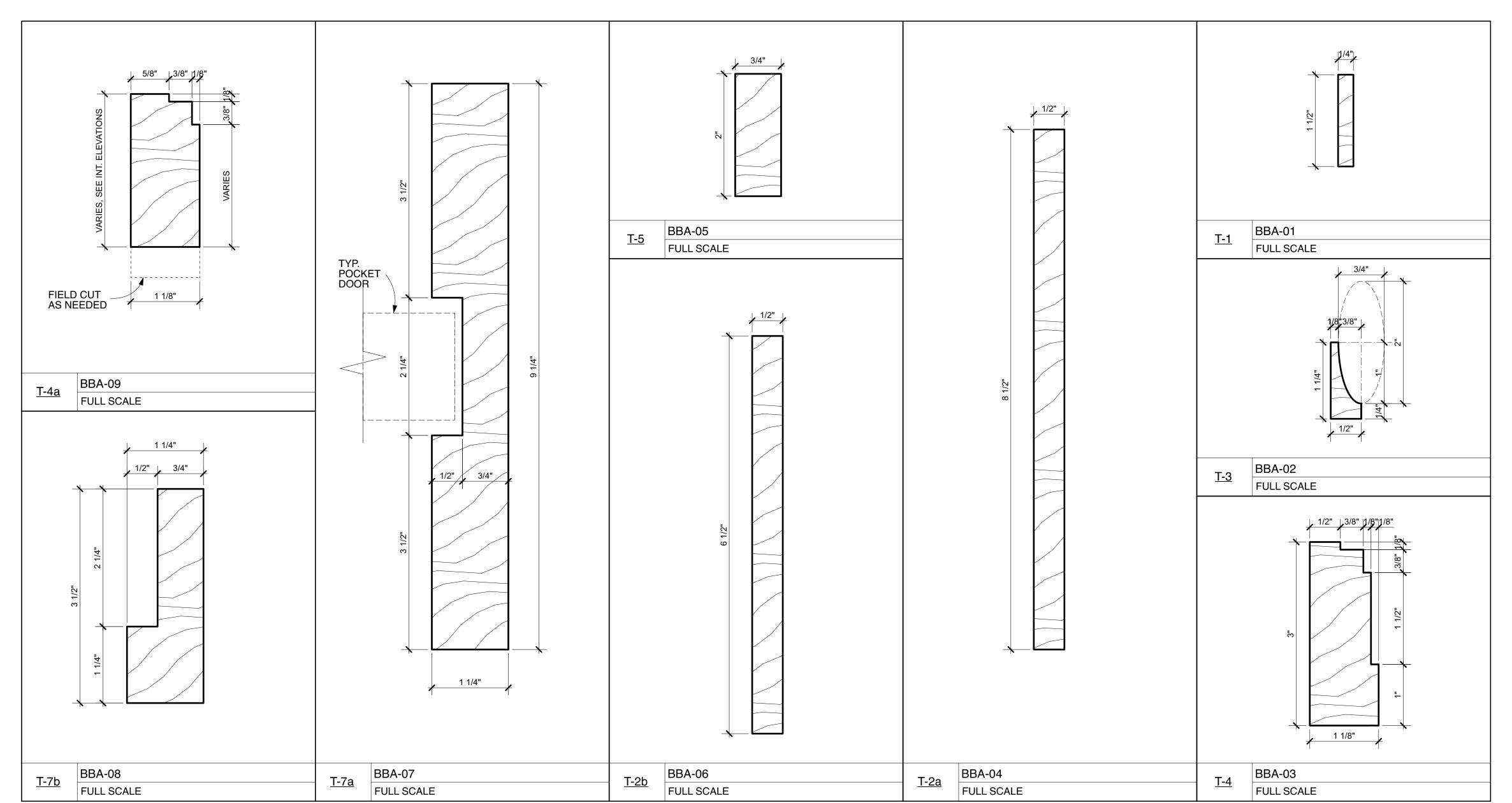
Cast Stone Profiles

Project No.	Issued For:	Date
Drawn By: MH/JH	Contract Set O	02.21.23
Checked By: GB	Pricing Set	09.30.22
Scale: AS NOTED	Rev Pricing	11.28.22
	Review	04.28.23
	IFC-Shell/Core ●	05.03.23
Sheet Number	5.8	NEW SHEET



NOTE: SEE SHEET A4.0-A FOR WINDOW CASING DETAILS





Grand Island Residence
4500 E. River Road
Grand Island, NY

Project Number: 2022-0034

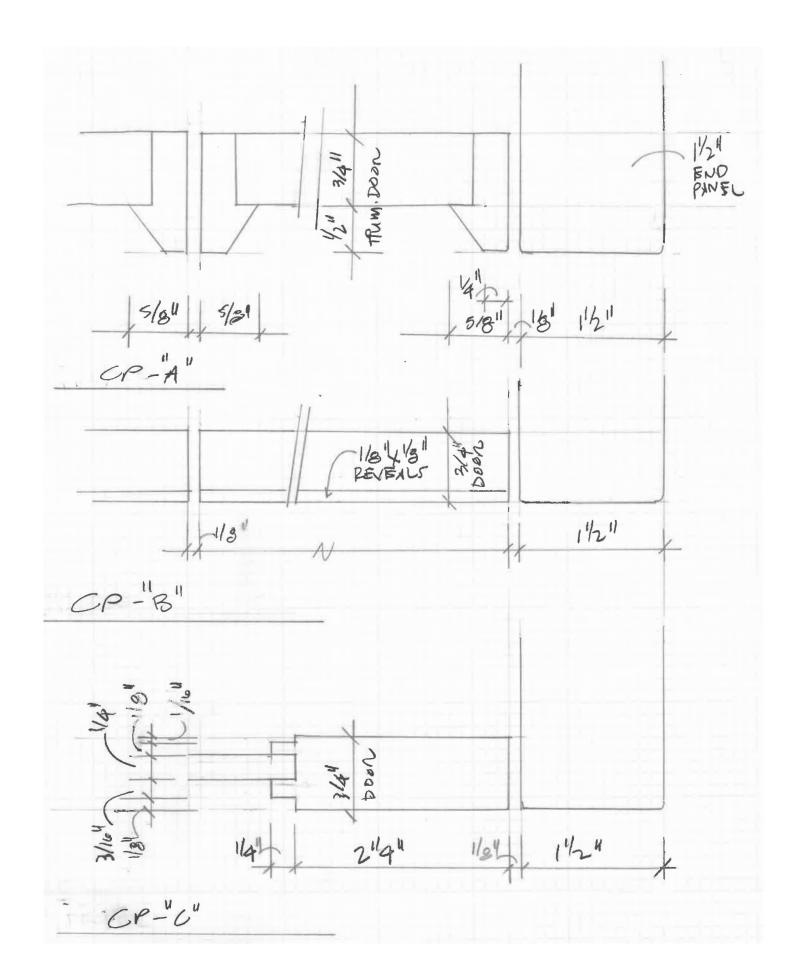


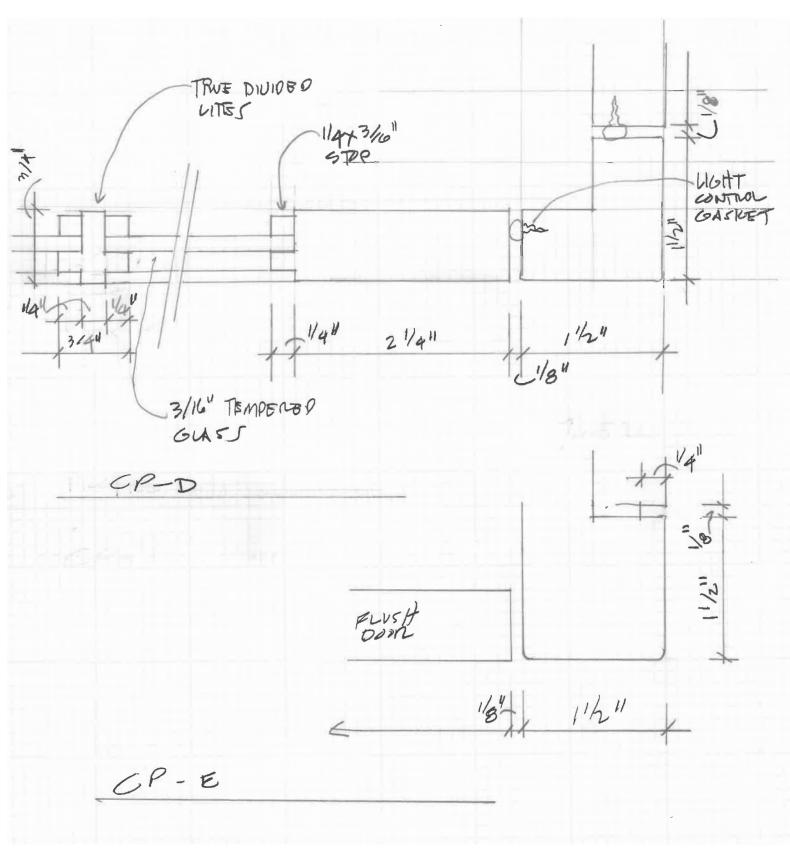
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Interiors:
Trim Profiles and Assemblies

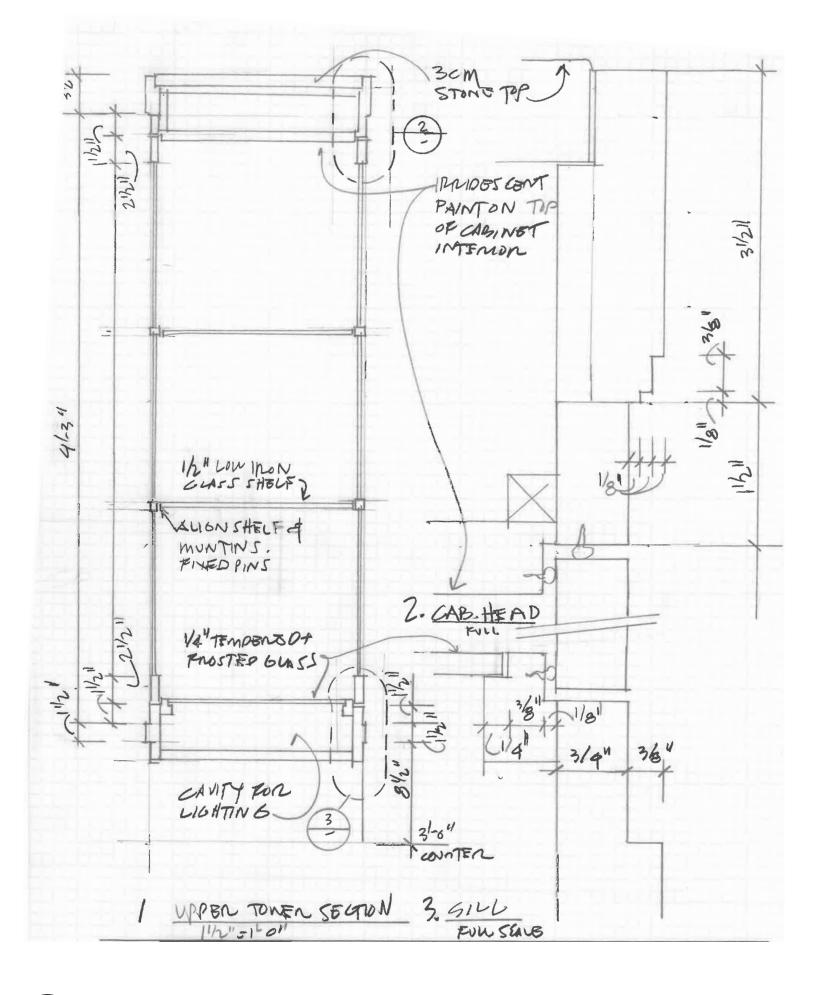
Project No.	Issued For:	Date
Drawn By: NM/EM/FS	Contract Set	02.21.23
Checked By: GB/MH	Pricing O	01.18.23
Scale: AS NOTED	Client Meeting O	05.17.23
	Construction	05.19.23
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Sheet Number A6.0-1









2 KITCHEN TOWER DETAILS
Scale: AS NOTED

Grand Island Residence
4500 E. River Road
Grand Island, NY

Project Number: 2022-0034



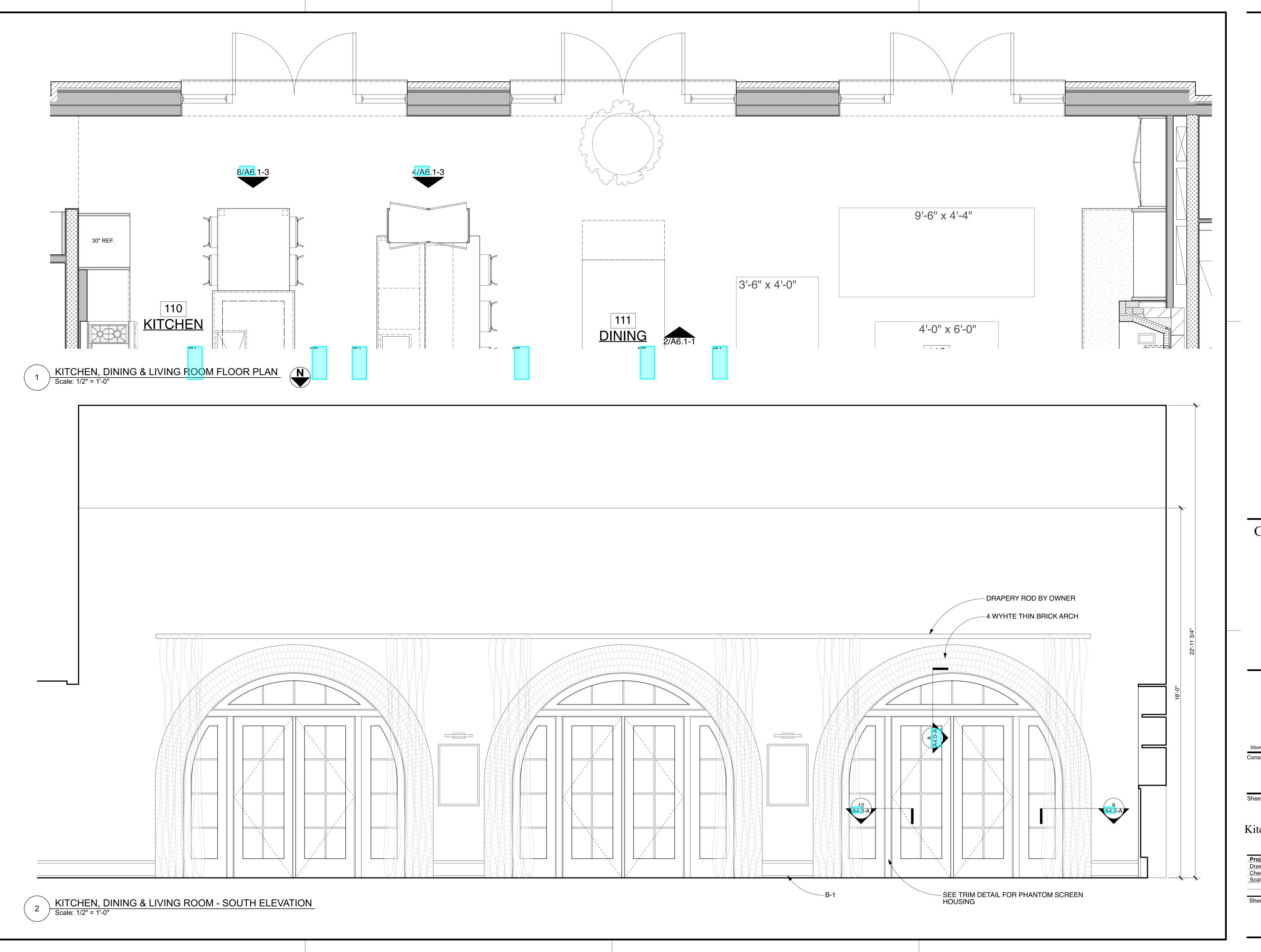
Sheet T

Interiors:
Cabinet Profiles &
Kitchen Tower Details

_	Project No.	Issued For:	Date
	Drawn By: NM/EM/FS	Contract Set	02.21.23
	Checked By: GB/MH	Pricing	01.18.23
	Scale: AS NOTED	Client Meeting O	05.17.23
		Construction	05.19.23
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Sheet Number

A6.0-2



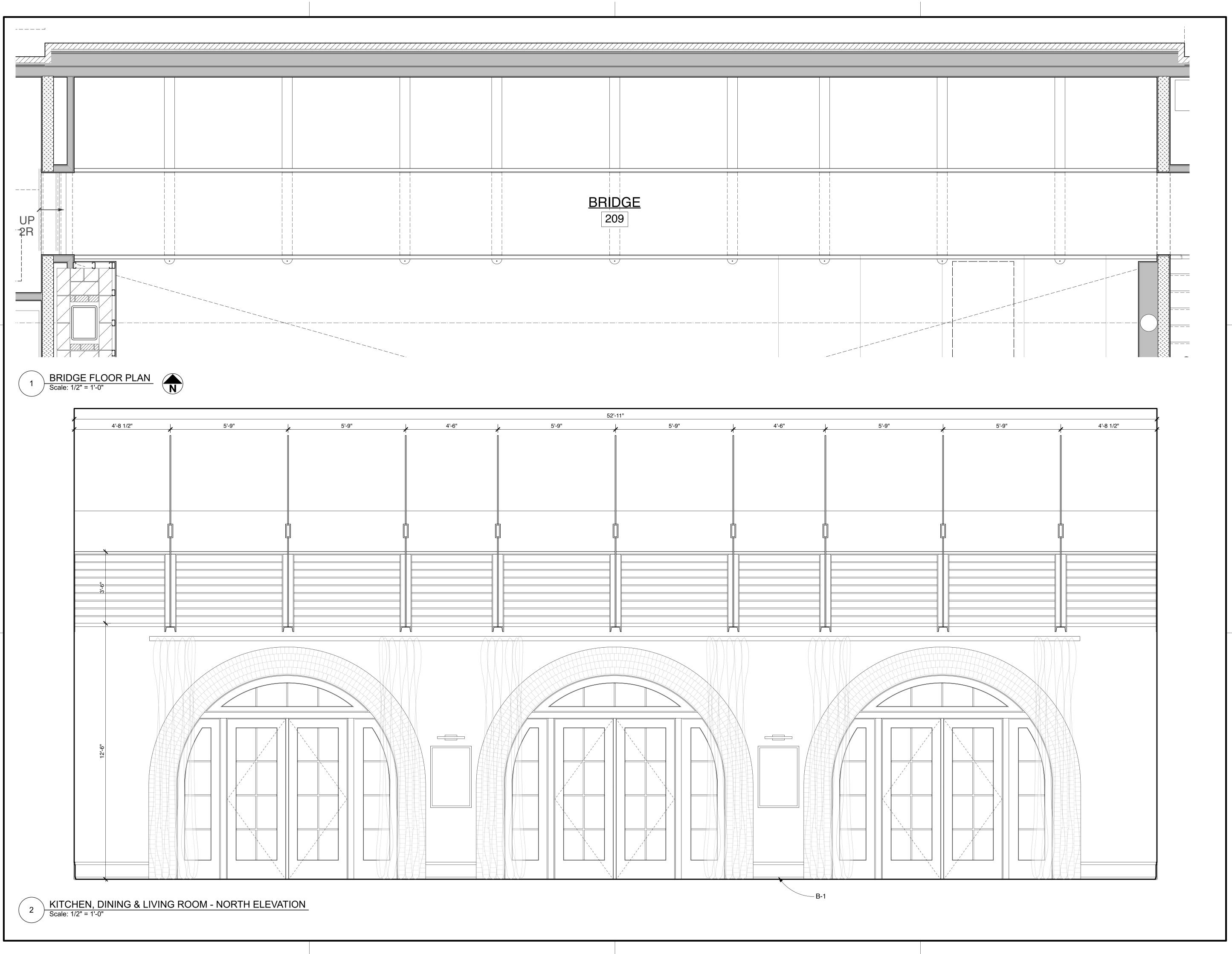
Project Number: 2022-0034



Interior Elevations: Kitchen, Dining & Living Room

Project No.	Issued For:	Date
Drawn By: NM/EM/FS	Contract Set	02.21.23
Checked By: GB/MH	Pricing	01.18.23
Scale: AS NOTED	Client Meeting O	05.17.23
	Construction	05.19.23

Sheet Number A6.1-1



Project Number: 2022-0034



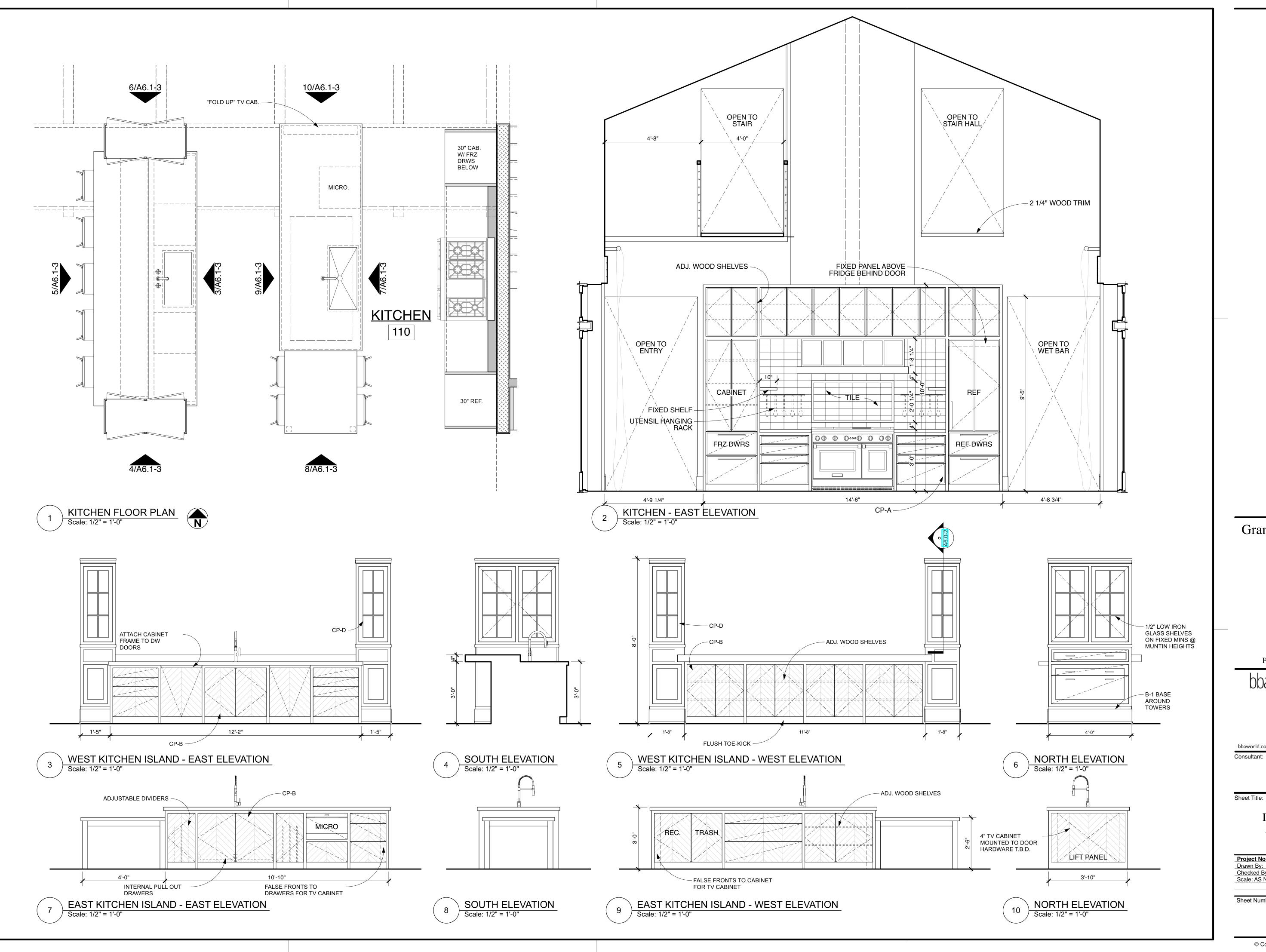
Sheet Title

Interior Elevations: Kitchen, Dining & Living Room

Project No.Issued For:DateDrawn By:NM/EM/FSContract Set02.21.23Checked By:GB/MHPricing01.18.23Scale:AS NOTEDClient Meeting05.17.23Construction05.19.23

Sheet Number

A6.1-2



Project Number: 2022-0034

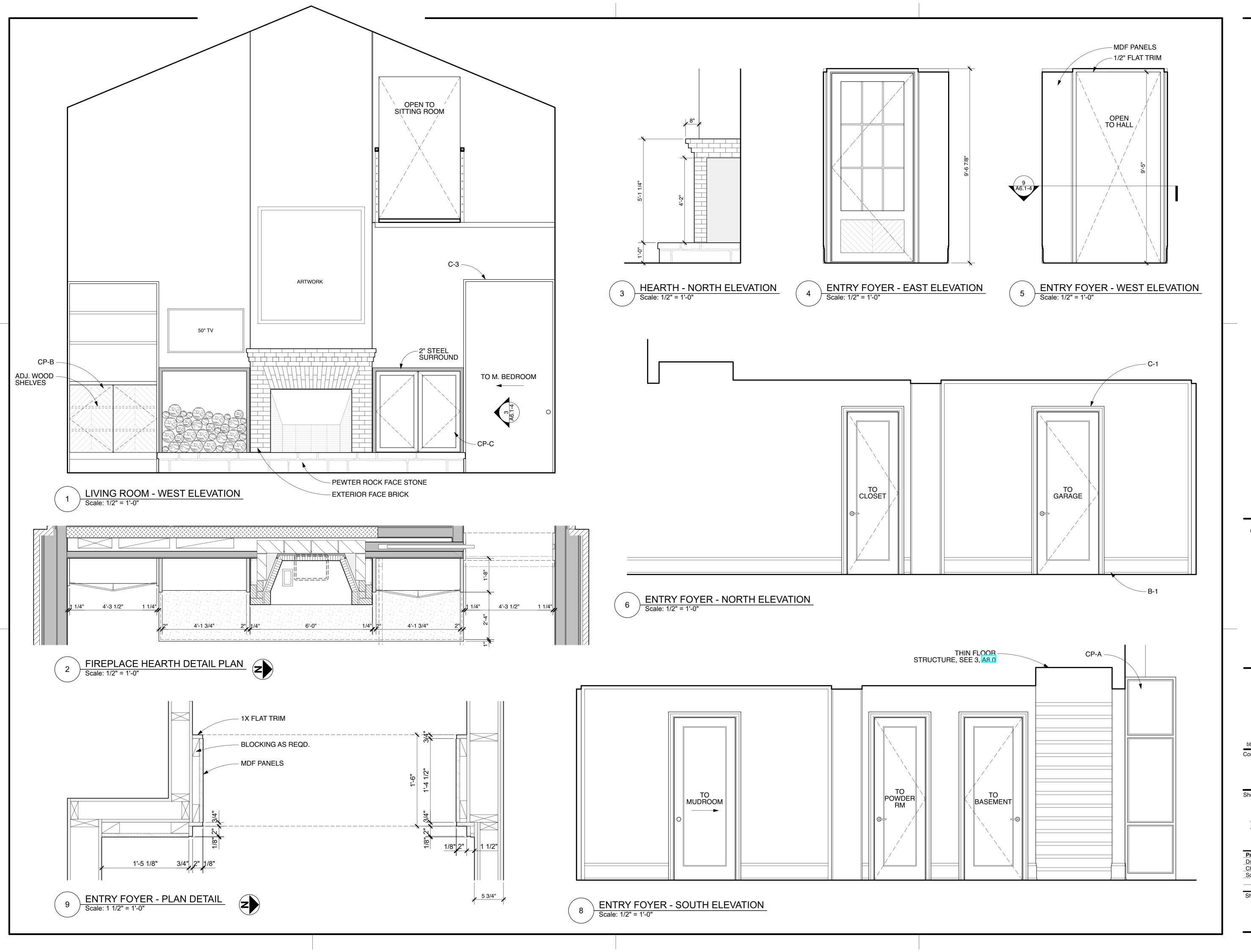


Interior Elevations: Kitchen & Islands

Project No.	Issued For:		Date
Drawn By: NM/EM/FS	Contract Set	\circ	02.21.23
Checked By: GB/MH	Pricing	\bigcirc	01.18.23
Scale: AS NOTED	Client Meeting	\bigcirc	05.17.23
	Construction	•	05.19.23
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Sheet Number

A6.1-3



Project Number: 2022-0034

ARCHITECTS

I010 SOUTH WABASH CHICAGO, ILLINOIS 60605

bbaworld.com

312.663.0222

Consultant:

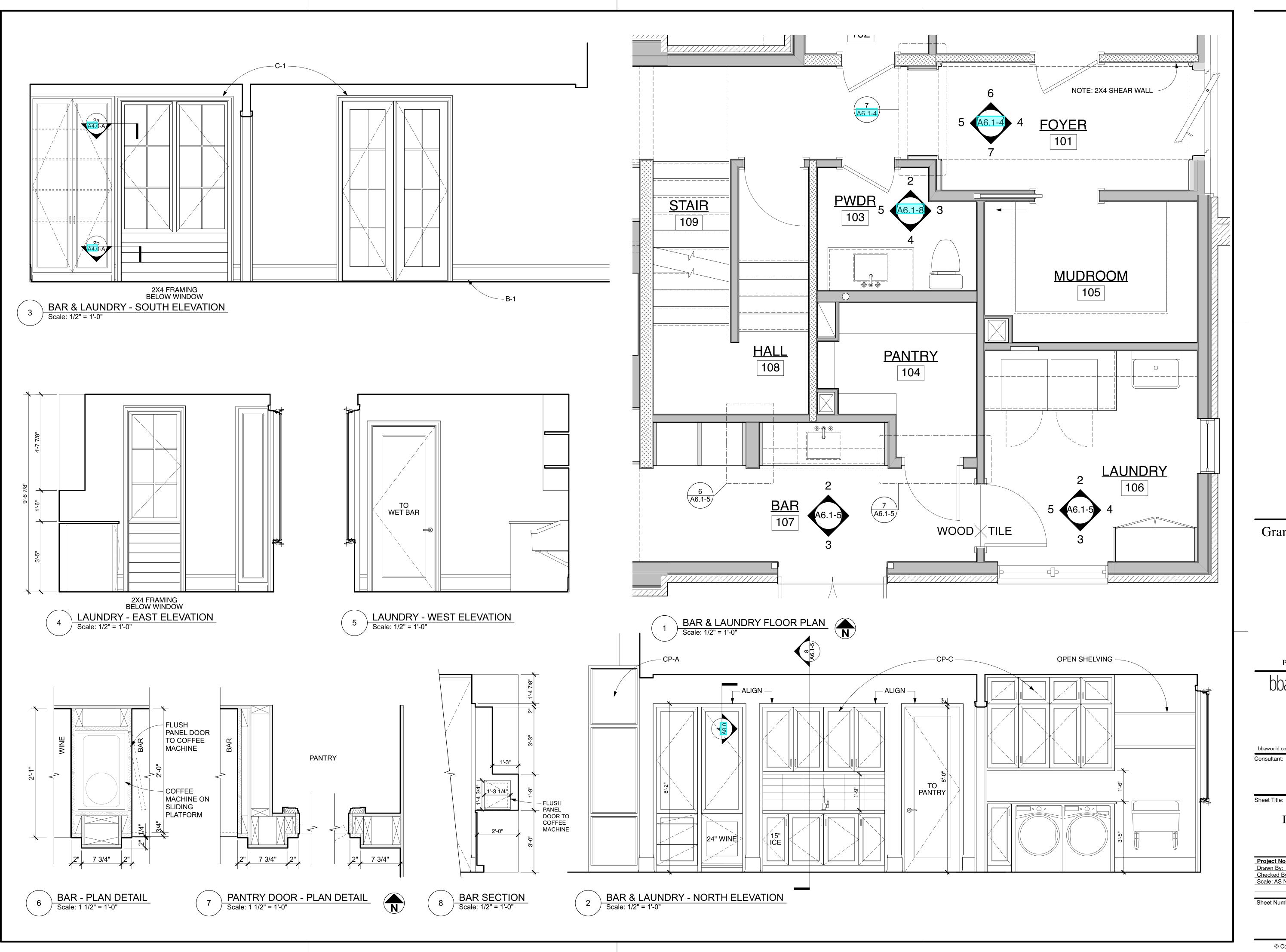
Sheet Title

Interior Elevations: Entry Foyer & Living Room

Project No.Issued For:DateDrawn By:NM/EM/FSContract Set02.21.23Checked By:GB/MHPricing01.18.23Scale:AS NOTEDClient Meeting05.17.23Construction05.19.23

Sheet Number

A6.1-4



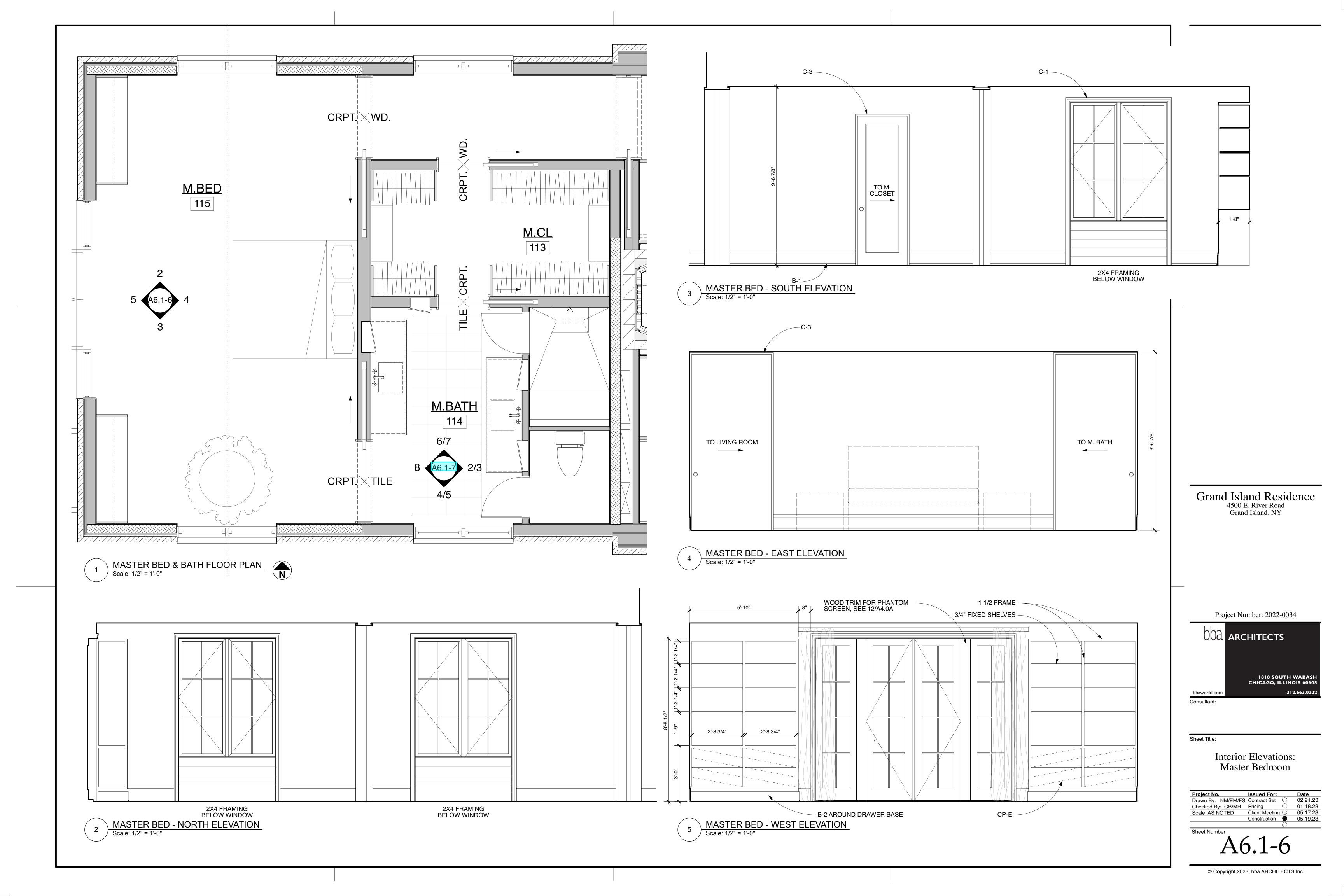
Project Number: 2022-0034



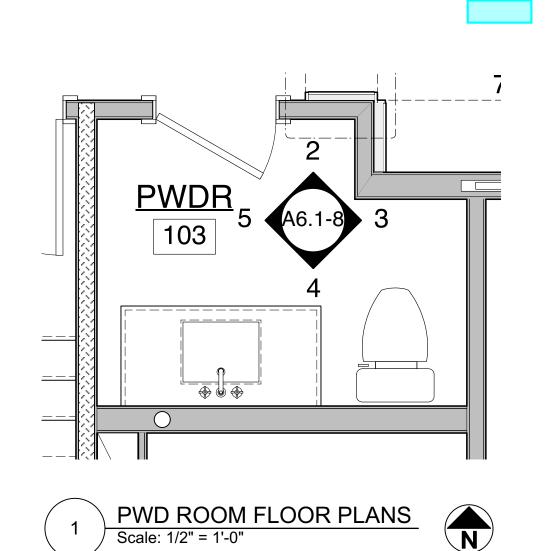
Interior Elevations: Bar & Laundry

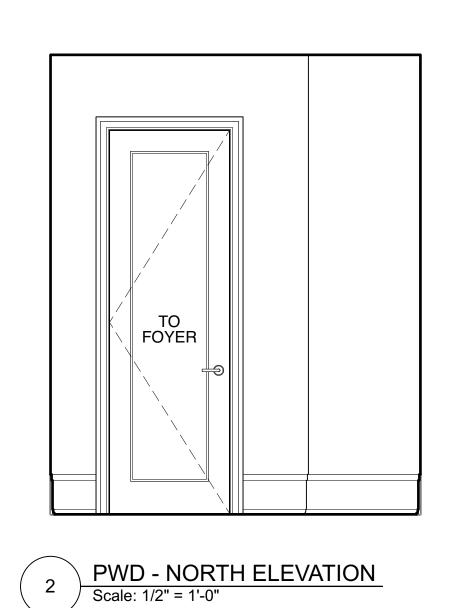
Project No.	Issued For:	Date
Drawn By: NM/EM/FS	Contract Set	02.21.23
Checked By: GB/MH	Pricing	01.18.23
Scale: AS NOTED	Client Meeting O	05.17.23
	Construction	05.19.23

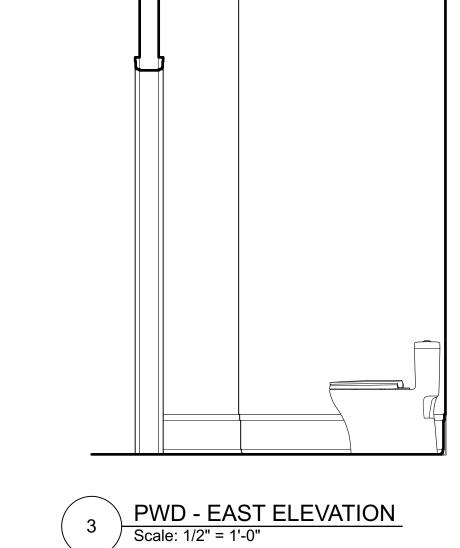
A6.1-5

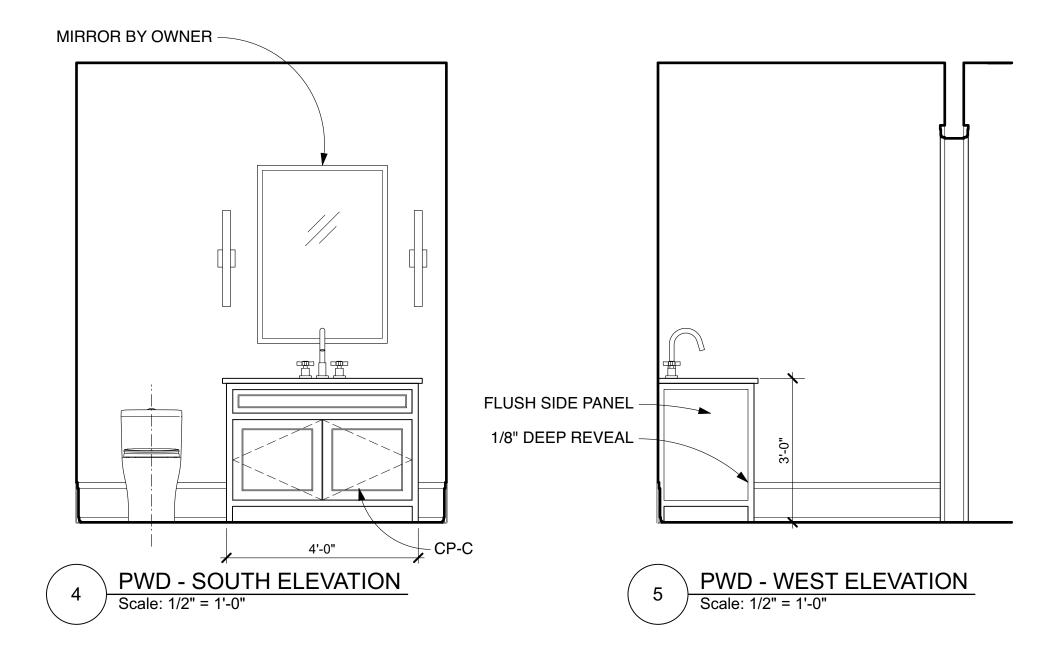












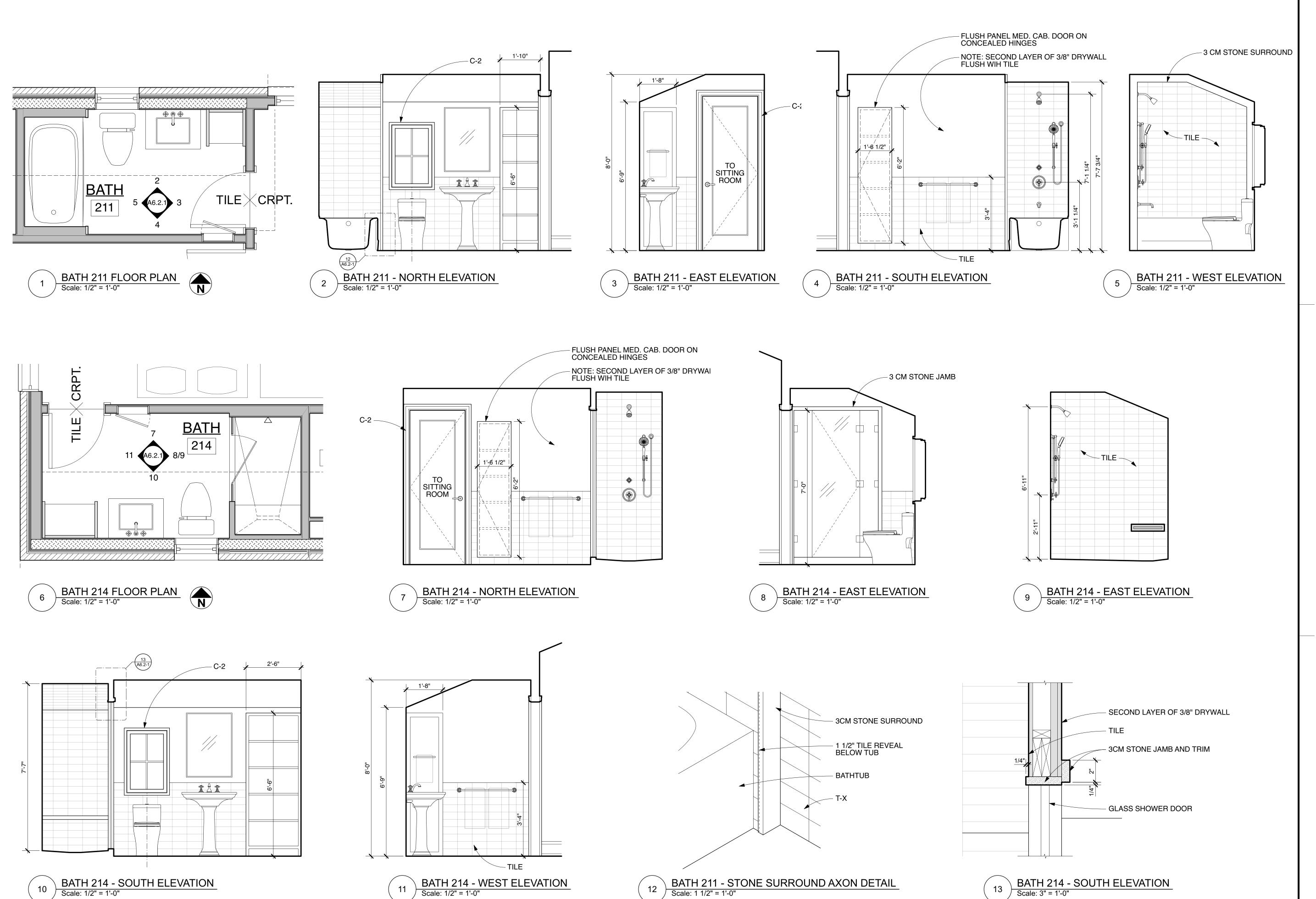
Project Number: 2022-0034



Interior Elevations: Powder Room

	Project No.	Issued For:	Date
	Drawn By: NM/EM/FS	Contract Set	02.21.23
	Checked By: GB/MH	Pricing	01.18.23
-	Scale: AS NOTED	Client Meeting O	05.17.23
		Construction	05.19.23

Sheet Number A6.1-8



Project Number: 2022-0034

DDA ARCHITECTS

I010 SOUTH WABASH
CHICAGO, ILLINOIS 60605

bbaworld.com 312.663.0222

Consultant:

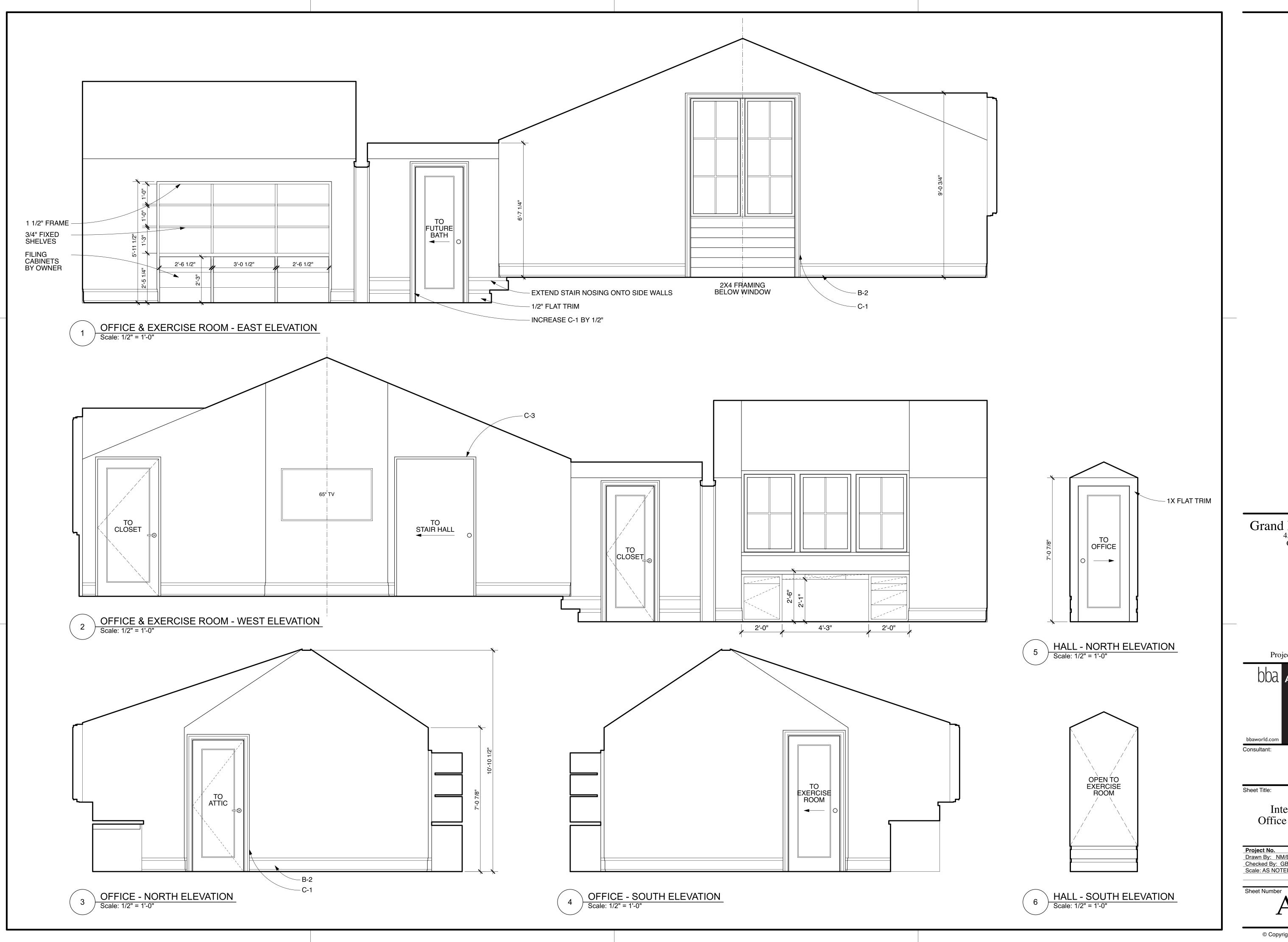
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Interior Elevations: Bath 211 & 214

Project No.Issued For:DateDrawn By:NM/EM/FSContract Set○02.21.23Checked By:GB/MHPricing○01.18.23Scale:AS NOTEDClient Meeting○05.17.23Construction●05.19.23

Sheet Number

A6.2-1



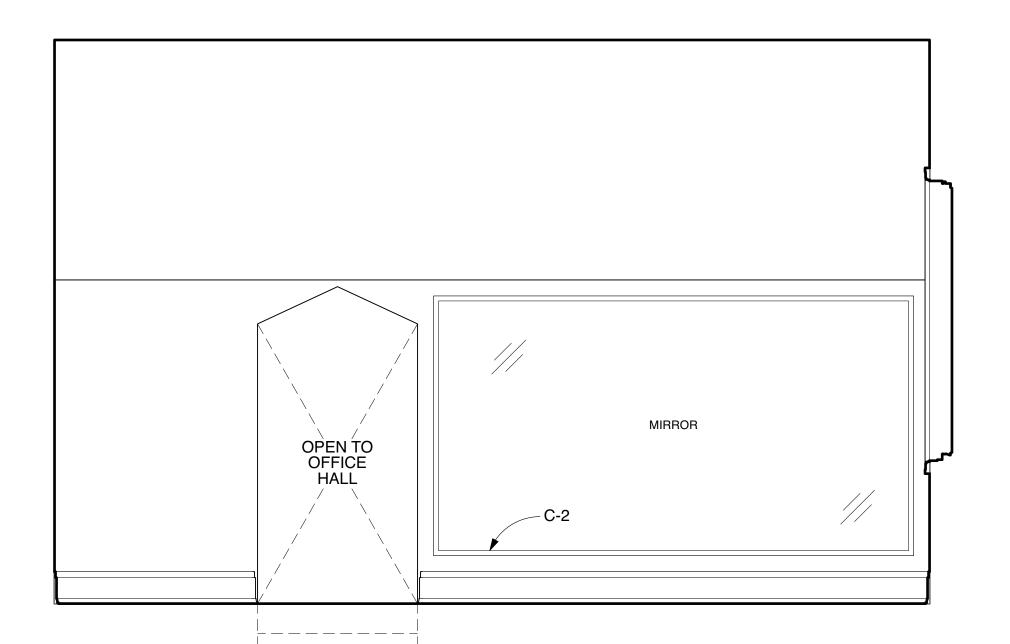
Project Number: 2022-0034



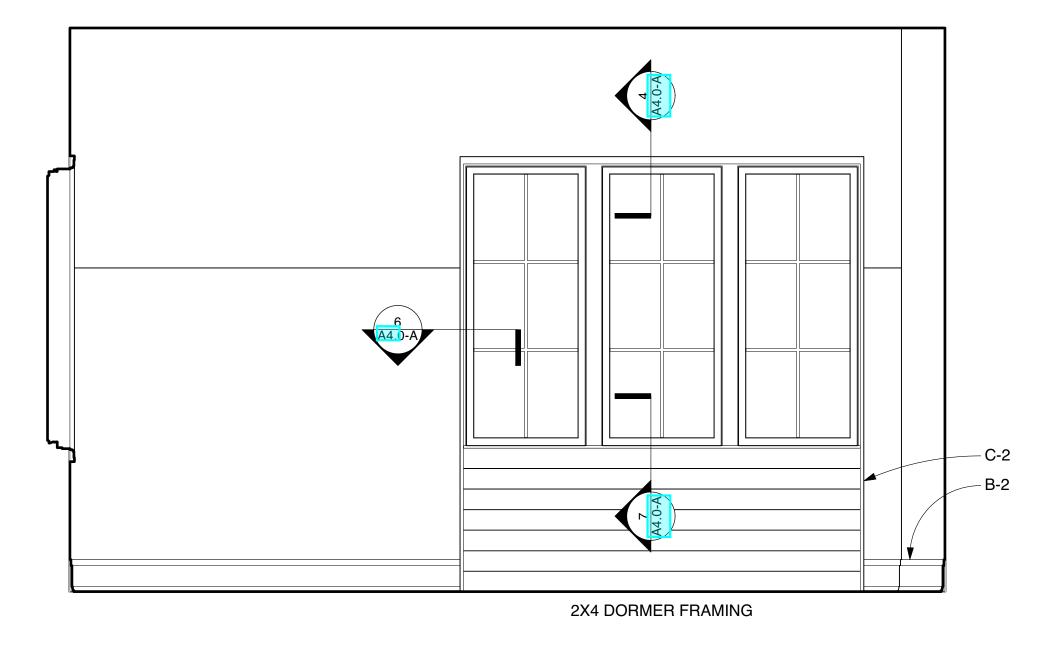
Interior Elevations: Office & Exercise Room

Project No.	Issued For:	Date
Drawn By: NM/EM/FS	Contract Set	02.21.23
Checked By: GB/MH	Pricing	01.18.23
Scale: AS NOTED	Client Meeting O	05.17.23
	Construction	05.19.23
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Sheet Number A6.2-2







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

Grand Island Residence
4500 E. River Road
Grand Island, NY

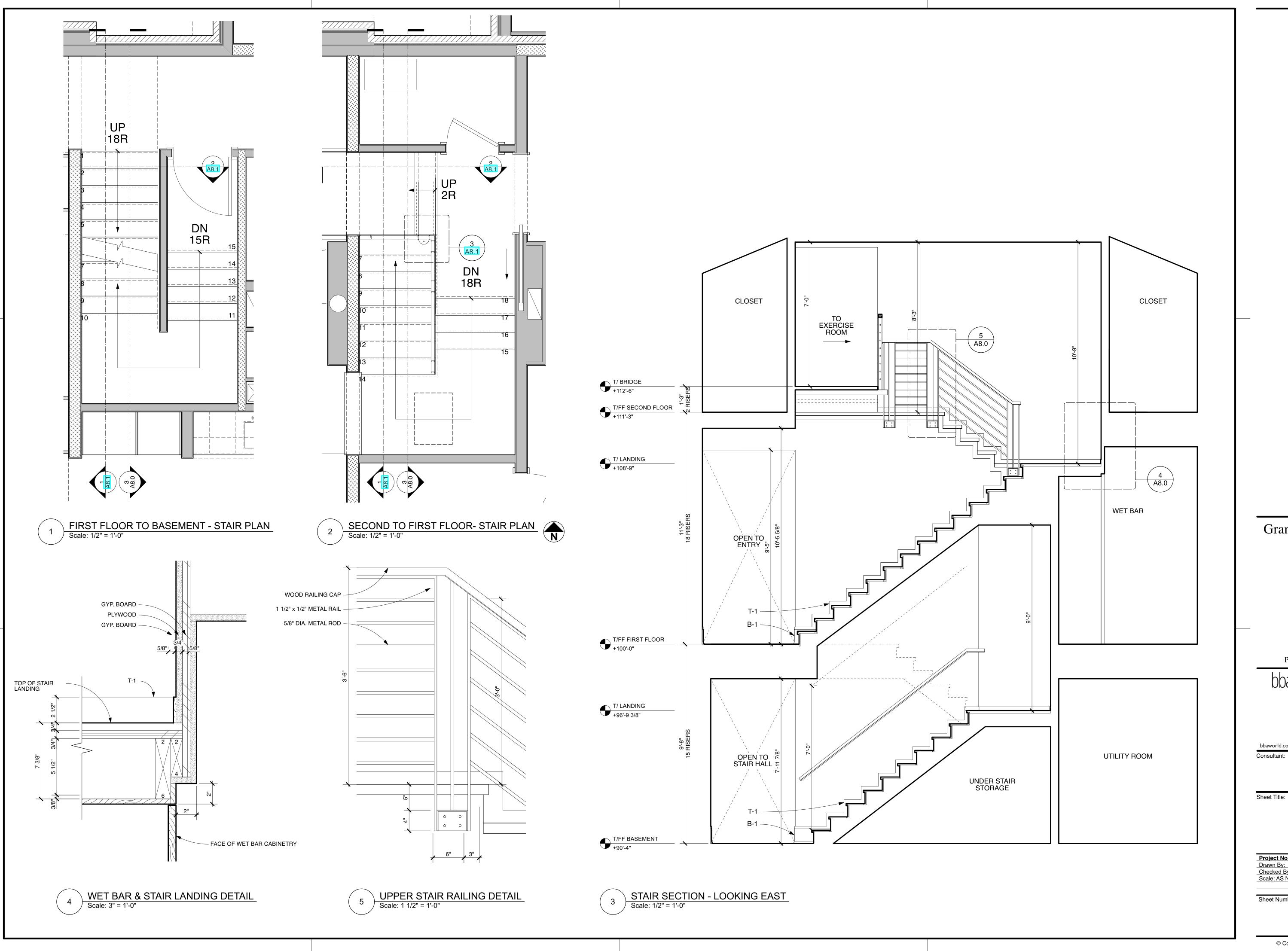
Project Number: 2022-0034



Interior Elevations: Exercise Room

Project No.	Issued For:		Date
Drawn By: NM	//EM/FS Contract Set	\circ	02.21.2
Checked By: C	GB/MH Pricing	\circ	01.18.2
Scale: AS NOT	ED Client Meeting		05.17.2
	Construction		05.19.2
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Sheet Number A6.2-3



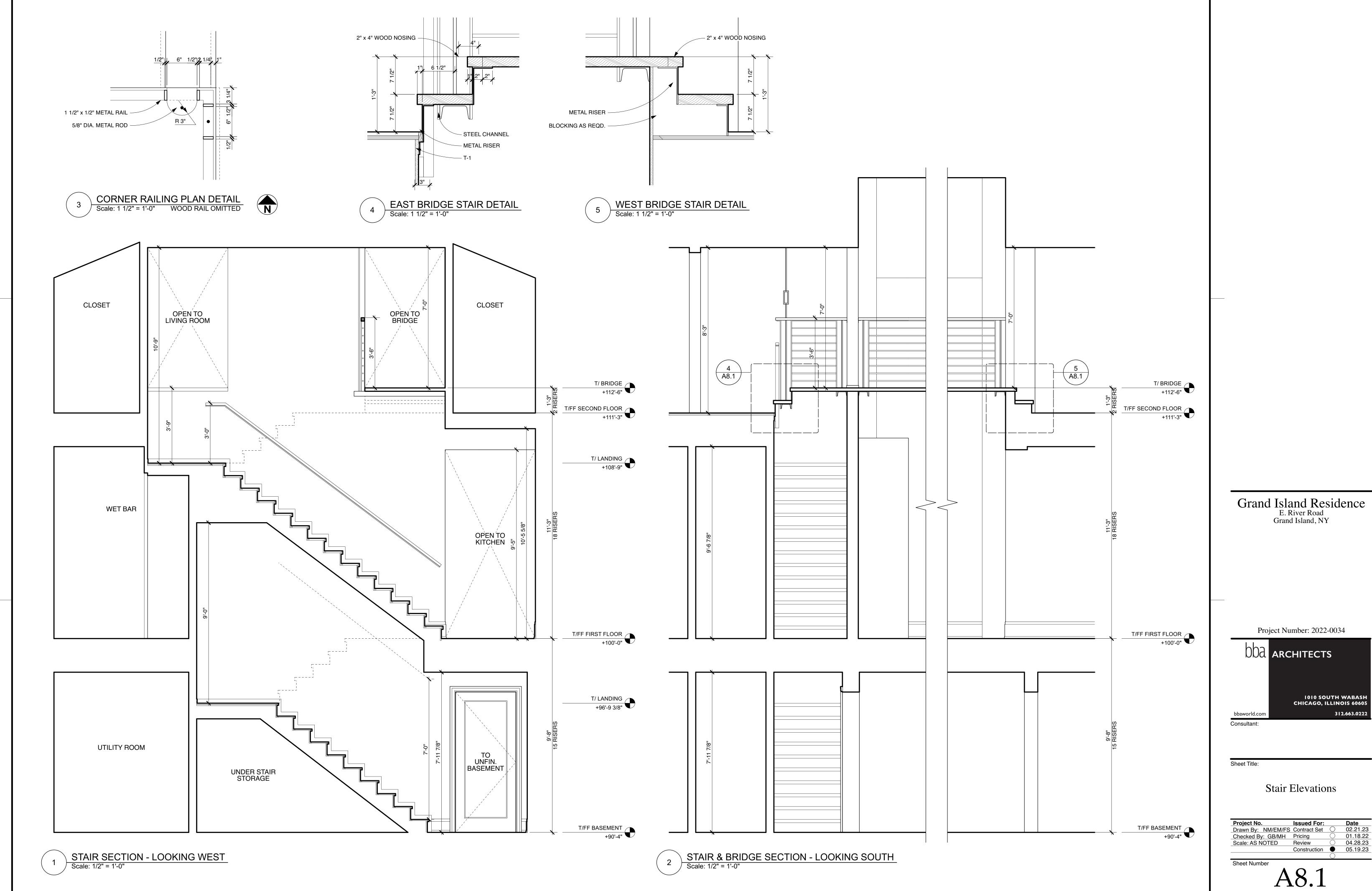
Project Number: 2022-0034



Stair Elevations

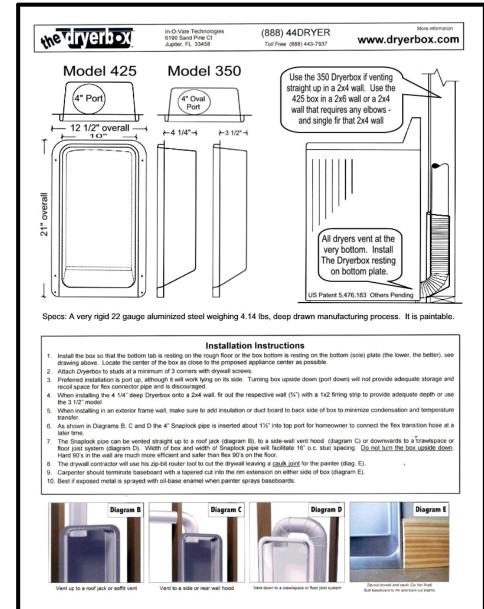
_P	<u>roject No</u> .	•	Issued For:		Date
D	rawn By:	NM/EM/FS	Contract Set	\circ	02.21.23
С	hecked By	/: GB/MH	Pricing	\circ	01.18.22
S	cale: AS Ñ	IOTED	Review	\circ	04.28.23
			Construction		05.19.23
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Sheet Number





Project No.	Issued For:	Date
Drawn By: NM/EM/FS	Contract Set	02.21.23
Checked By: GB/MH	Pricing	01.18.22
Scale: AS NOTED	Review	04.28.23
	Construction	05.19.23



PLUMBING GENERAL NOTES

- REFER TO DRAWINGS FOR ADDITIONAL NOTES AND LOCATIONS.
- PLUMBING SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR INSTALLING ALL NEW WORK IN ACCORDANCE WITH LOCAL CITY, STATE AND
- NATIONAL CODES AND ORDINANCES.

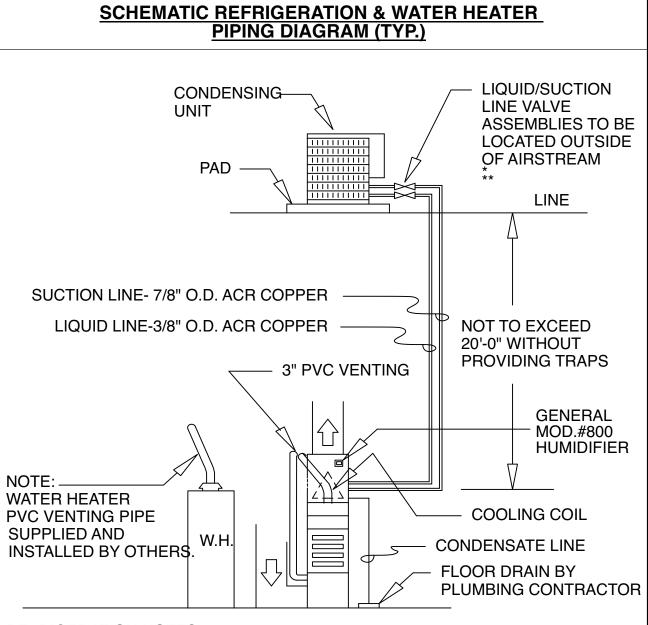
 3. UNDERGROUND SERVICE PIPING SHALL BE TYPE K COPPER.
- 4. ALL SUPPLY PIPING SHALL BE TYPE L COPPER.
- 5. ALL VENT PIPING SHALL BE TYPE M COPPER TUBING.
- INSTALL DIELECTRIC FITTINGS AT CONNECTIONS TO DISSIMILAR METAL PIPING.
- 7. ALL DWV PLUMBING ABOVE BASEMENT SLAB SHALL BE SCHEDULE 40 PVC OR CAST IRON.
- 8. ALL DWV PLUMBING BELOW BASEMENT SLAB SHALL BE SCHEDULE 40 CAST IRON.
- 9. PROVIDE 12" AIR CHAMBERS AT ALL FIXTURES AND 24" AIR CHAMBERS AT ALL RISERS.
- 10. FURNISH AND INSTALL GRAY BOX AND FLOOR DRAIN AT EACH WASHER LOCATION. FURNISH AND INSTALL A PLASTIC OR
- FURNISH AND INSTALL INDIVIDUAL SHUT-OFF VALVES AT EACH 11. FIXUTRE.

SHEET METAL PAN AT EACH WASHER ABOVE BASEMENT LEVEL

- HORIZONTAL BRANCHES, BUILDING DRAIN AND SEWER TO BE 12. PITCHED 1/8" TO 1/4" PER FOOT.
- FURNISH AND INSTALL WATER LINE FOR REFRIGERATOR
- NO FLEXIBLE WATER LINE SHALL BE USED FOR FIXTURE OR 14. SUPPLY CONNECTIONS.
- PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL 4"
- 15. EXTERIOR DRAIN TILE CONNECTED TO STORM SEWER SUMP.
- DRAIN TILE SHALL BE WRAPPED WITH A MIN. 12" OF 3/4" 16. STONE.DRAIN TILE SHALL BE PLACED ADJACENT TO FOOTING
- GAS PIPING MATERIALS TO BE STEEL SCREW PIPE, SCHEDULE 17.40A-120, STEEL CLEVIS HANGERS, AND THREADED ROD SUPPORTS. PROVIDE AND INSTALL GAS PIPING SHUT-OFF AT EACH APPLIANCE WITH DRIP LEG AND EACH FIREPLACE LOB
- PROVIDE AND INSTALL WATER HEATER AND FLUES PER PLAN 18.
- PROVIDE NEW HIGH-EFFICIENCY HOT WATER HEATERS WITH 19. FAST-RECOVERY.
- HOT WATER RECRICULATING PUMP FOR OWNERS UNIT. LOOP 20. TO BATHROOMS AND KITCHEN.
- PROVIDE ALL INSULATION AND HANGERS FOR PIPING.
- NO LEAD SOLDER/FLUX.
- PROVIDE HOSE BIBS W/ APPROVED BACKFLOW PREVENTION
- THE SUMP PIT SHALL BE NOT LESS THAN 18 INCHES (457 MM) IN 24. DIAMETER AND 30 INCHES (762 MM) DEEP, UNLESS OTHERWISE APPROVED. THE PIT SHALL BE ACCESSIBLE AND LOCATED SUCH THAT ALL DRAINAGE FLOWS INTO THE PIT BY GRAVITY. AN APPROVED SUMP PIT OR TANK WITHIN A BUILDING RECEIVING THE DISCHARGE FROM SANITARY DRAINS, STORM WATER OR COMBINED DRAINS SHALL BE CONSTRUCTED OF STEEL, CAST IRON, REINFORCED CONCRETE PIPE OR OTHER APPROVED MATERIALS. THE SUMP OR TANK RECEIVING THE DISCHARGE FROM SUBSURFACE SOIL DRAINAGE SHALL BE CONSTRUCTED OF VITRIFIED CLAY TILE OR ANY OF THE ABOVE MATERIALS. APPROVED PLASTIC OR FIBERGLASS LINERS MAY BE USED IN CONJUNCTION WITH ANY OF THE APPROVED MATERIALS REFERENCED ABOVE. THE PIT BOTTOM SHALL BE SOLID AND PROVIDE PERMANENT SUPPORT FOR THE PUMP. THE SUMP PIT SHALL BE FITTED WITH A GAS-TIGHT REMOVABLE COVER ADEQUATE TO SUPPORT ANTICIPATED LOADS IN THE AREA OF USE. THE SUMP PIT RECEIVING SANITARY FLOW
- THE WATER SUPPLY TO A DISHWASHING MACHINE SHALL BE PROTECTED AGAINST BACKFLOW BY AN AIR GAP OR 25. BACKFLOW PREVENTER IN ACCORDANCE WITH ARTICLE

SHALL BE VENTED IN ACCORDANCE WITH ARTICLE 18-29-9.

EJECTOR CONNECTION TO DRAINAGE SYSTEM: PUMPS CONNECTED TO THE DRAINAGE SYSTEM SHALL CONNECT TO 26. THE BUILDING SEWER OR SHALL CONNECT TO A WYE FITTING IN THE BUILDING DRAIN A MINIMUM OF 10 FEET (3.05 MM) FROM THE BASE OF ANY SOIL STACK, WASTE STACK OR FIXTURE DRAIN. WHERE THE DISCHARGE LINE CONNECTS INTO HORIZONTAL DRAINAGE PIPING, THE CONNECTOR SHALL BE MADE THROUGH A WYE FITTING INTO THE TOP OF THE DRAINAGE PIPING.



REFRIGERATION NOTES:

- 1. REMOVE EXPANSION VALVES DEVICES AND CONNECTIONS FROM THE AIR STREAM
- 2. REMOTE REFRIGERATION PIPING TO BE ACR-COPPER OR K-COPPER.

3. ALL REFRIGERATION LINE JOINTS TO BE BRAZED.

- MECHANICAL NOTES:
- 2. THE MECHANICAL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR INSTALLING ALL NEW WORK IN ACCORDANCE WITH LOCAL,
- STATE AND NATIONAL CODES AND ORDINANCES.

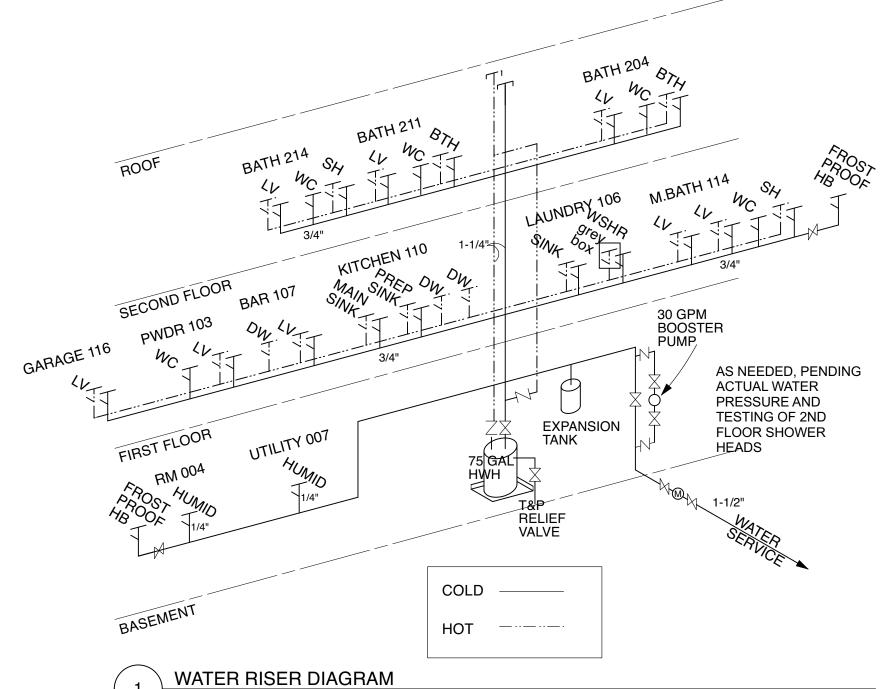
 3. BASIS FOR HEAT CALCULATIONS IS A.S.H.R.A.E.
- . ALL DUCTWORK SHALL BE NEW PRIME GRADE GALV. SHT. MTL. FABRICATED AND INSTALLED IN COMPLIANCE WITH SMACNA STANDARDS FOR LOW VELOCITY DUCTWORK
- 5. INSTALL BALANCING DAMPERS AT EACH BRANCH RUN.
- MINIMUM SUPPLY OR EXHAUST TO BE 50 CFM.

REFER TO DRAWINGS FOR ADDITIONAL NOTES AND LOCATIONS.

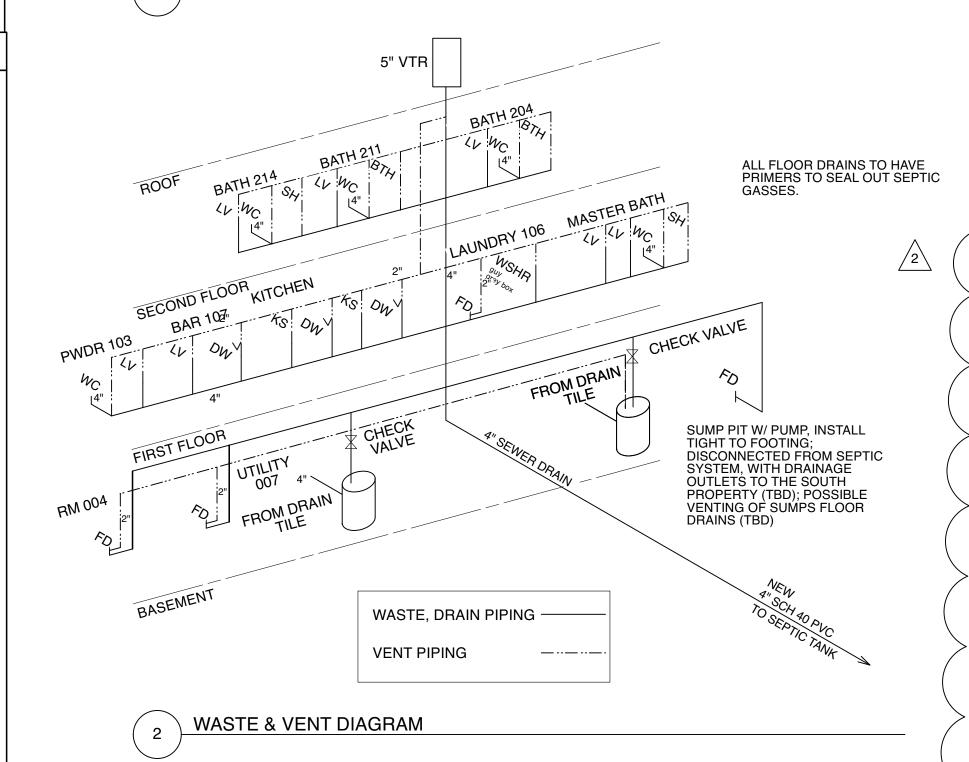
- 7. CARBON MONOXIDE DETECTORS TO BE PROVIDED WITHIN 40'-0" OF EVERY ROOM USED FOR SLEEPING AND IN THE ROOM CONTAINING THE CENTRAL HEATING UNIT.
- 8. APPROVED SMOKE DETECTORS TO BE PROVIDED IN EVERY SLEEPING ROOM, WITHIN 15'-0" OUTSIDE OF EVERY SLEEPING ROOM AND AT THE TOP OF EVERY STAIR.
- 9. ALL SUPPLY BRANCH TAKEOFFS TO HAVE MANUALLY ADJUSTABLE LOCK TYPE VOLUME DAMPERS.
- 10. ALL SUPPLY OPENINGS TO BE A MIN. OF 15'-0" FROM ANY AND ALL EXHAUST OPENINGS.
- 11. FLOOR REGISTERS SHALL NOT EXCEED 9" FROM WALLS.
- 12. ALL ROOMS TO BE HEATED TO 70 DEG F INDOORS WHEN OUTSIDE TEMP. IS -10 DEG F. (80 DEG F TEMP. DIFFERENCE).
- 13. ALL O. A. INTAKES SHALL BE MIN. 10 FT. ABOVE GRADE AND 15 FT. MIN. FROM ANY EXHAUSTS.
- 4. ALL EXPANSION VALVES, DEVICES AND CONNECTORS TO BE REMOVED FROM AIR STREAM.
- 5. NOISE LEVEL AT THE LOT LINE SHALL NOT EXCEED 55 DB ON THE "A" SCALE.
- 16. ALL DUCTWORK IN UNCONDITIONED SPACE TO BE INSULATED.
- 17. ALL AC REFRIGERATION LINE JOINTS TO BE BRAZED.
- 20. PROVIDE A HUMIDIFING DEVICE.
- 21. PROVIDE A AIR-CLEANING DEVICE

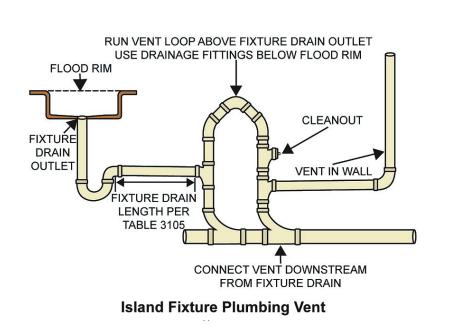
8. NO FLEX DUCT IN RESIDENTIAL.

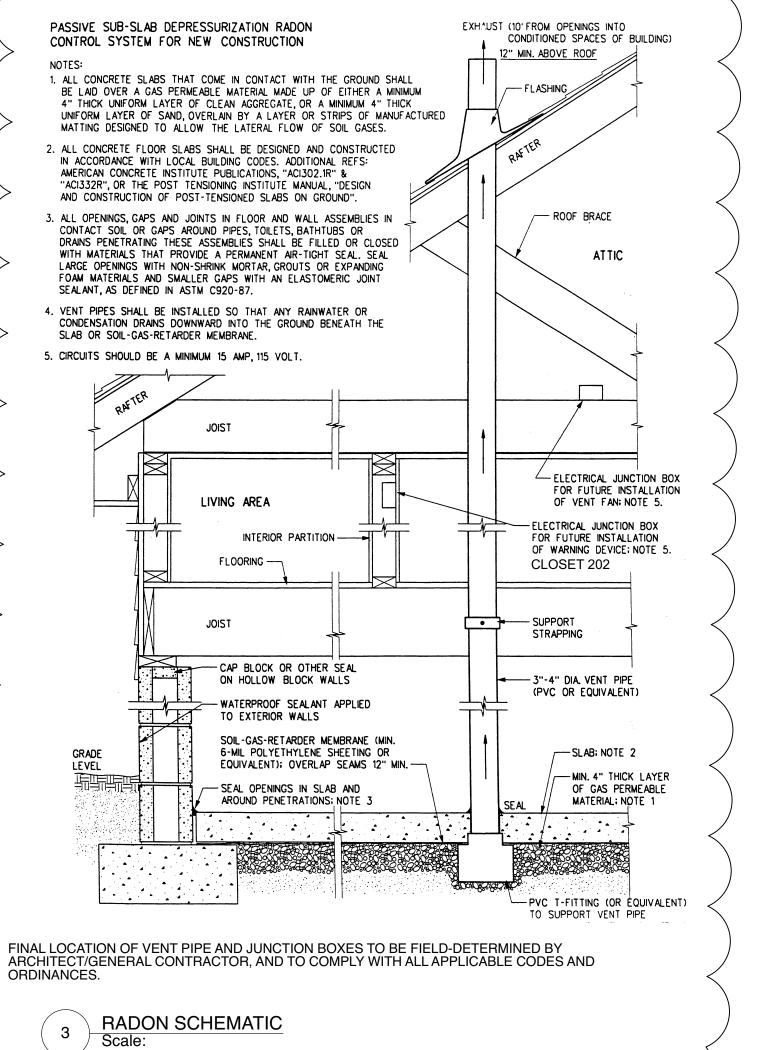
- MECHANICAL CONTRACTOR TO SUPPLY HOOK-UPS FOR GAS AND ELECTRIC FOR ALL EQUIPMENT.
- 23. GAS PIPING BY PLUMBING CONTRACTOR.
- 24. ELECTRICAL WIRING BY ELECTRICAL CONTRACTOR.
- 25. DRYER EXHAUST SYSTEMS TO BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS. SEE DRYER BOX SPECIFICATION THIS SHEET.
- 26. VENTING OF ALL GAS FIRED APPLIANCES MUST CONFORM TO INTERNATIONAL FUEL GAS CODE (IFGC).



LIGHT / VENTILATION SCHEDULE							
ROOM	SQUARE FEET	REQ'D LIGHT .08*S.F.	PROPOSED LIGHT	REQ'D VENT .04*S.F.	PROPOSED VENT	REQ'D MECH VENT.	PROPOSED MECH. VENT.
004 UNFIN. BSMT.	_	-		-			
005 UNFIN. BSMT.	-	-		-			
006 UNFIN. BSMT.	-	-		-			
007 UTILITY	-	-		-			
101 FOYER	62	4.96	18	2.48	35		
103 POWDER	44	3.52	0	1.76	0	50	50
106 LAUNDRY	105	8.4	36.8	4.2	47.36		
107 BAR	107	8.56	26.2	4.28	46.8		
110 KITCHEN	1265	101.2	270	50.6	282		
111 DINING	INC	-		-			
112 LIVING	INC	-		-			
113 M.CL	-	-		-			
114 M.BATH	94	7.52	26	3.76	32.76		110
115 M.BED	336	26.88	100.6	13.44	112.03		
203 EXERCISE	462	36.96	59.4	18.48	61.51		
204 FUTURE BATH	28	2.24	0	1.12	0	50	80
206 OFFICE	172	13.76	35.6	6.88	29.4		
210 SITTING	136	10.88	35.6	5.44	29.4		
211 BATH	211	16.88	3.7	8.44	6	50	80
213 BEDROOM	166	13.28	47.7	6.64	64.22		
214 BATH	67	5.36	3.7	2.68	6	50	80
216 BEDROOM	170	13.6	35.6	6.8	29.4		







Grand Island Residence
4500 E. River Road
Grand Island, NY

Project Number: 2022-0034



Sheet Title

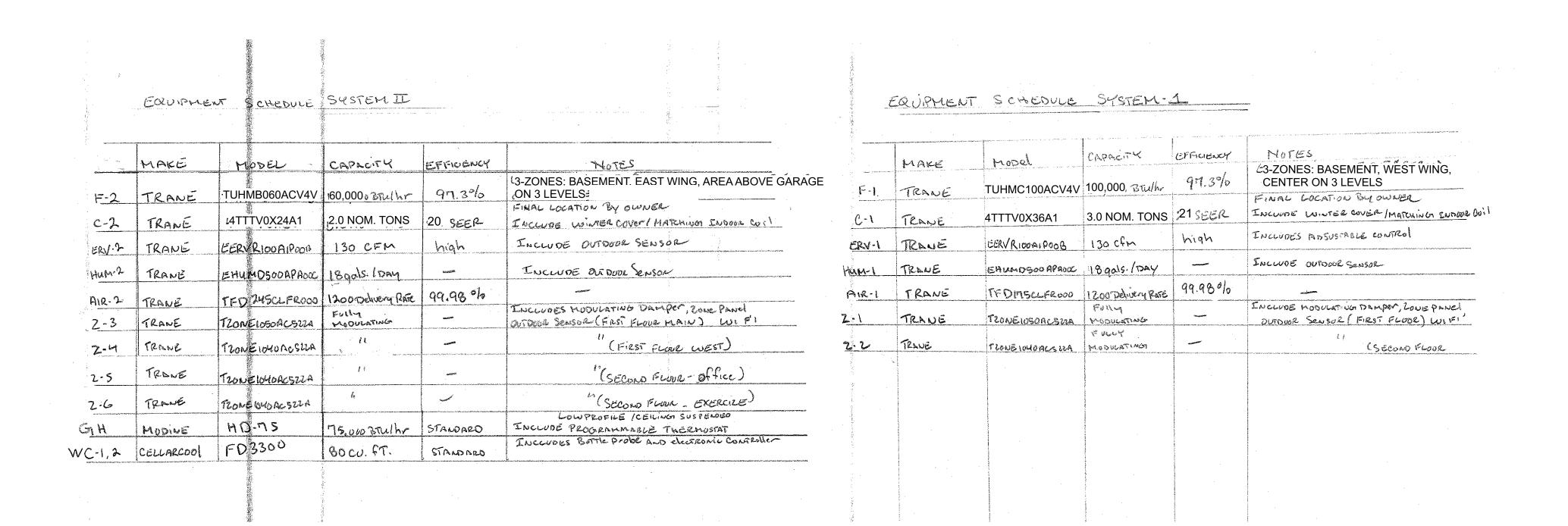
Mech & Plumbing: Notes, Schedules & Diagrams

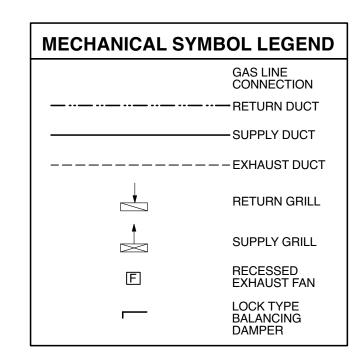
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Project No.	Issued For:		Date	
Drawn By: MH/JH/NM	Contract Set	\circ	02.21.23	
Checked By: GB	Pricing	\bigcirc	04.13.22	Λ
Scale: AS NOTED	Fndn Issue	\circ	04.12.23	/1\
	Review	\circ	04.28.23	
	IFC (Shell)		05.03.23	$\sqrt{2}$
				7

Sheet Number

MP1.0

FINAL EQUIPMENT SIZING AND ZONES ARE DELINEATED; MANUAL 'J', 'S' AND 'D' CALCS ARE COMPLETED AND PROVIDED AS SEPARATE EXHIBIT





PLUI	MBING SYMBOL LEGEND
FD O	FLOOR DRAIN - ZURN #ZN-415 21P-5S
ODS	DOWN SPOUT - CONNECT TO SEWER
	HOSE BIB - FROST FREE, TYP.
1	GAS CONNECTION

UNEXCAVATED

BASEMENT MECHANICAL LAYOUT
Scale: 1/4" = 1'-0"

PRIOR TO MODIFICATIONS OR FINAL DUCTWORK CONNECTIONS.

Grand Island Residence 4500 E. River Road Grand Island, NY

Project Number: 2022-0034

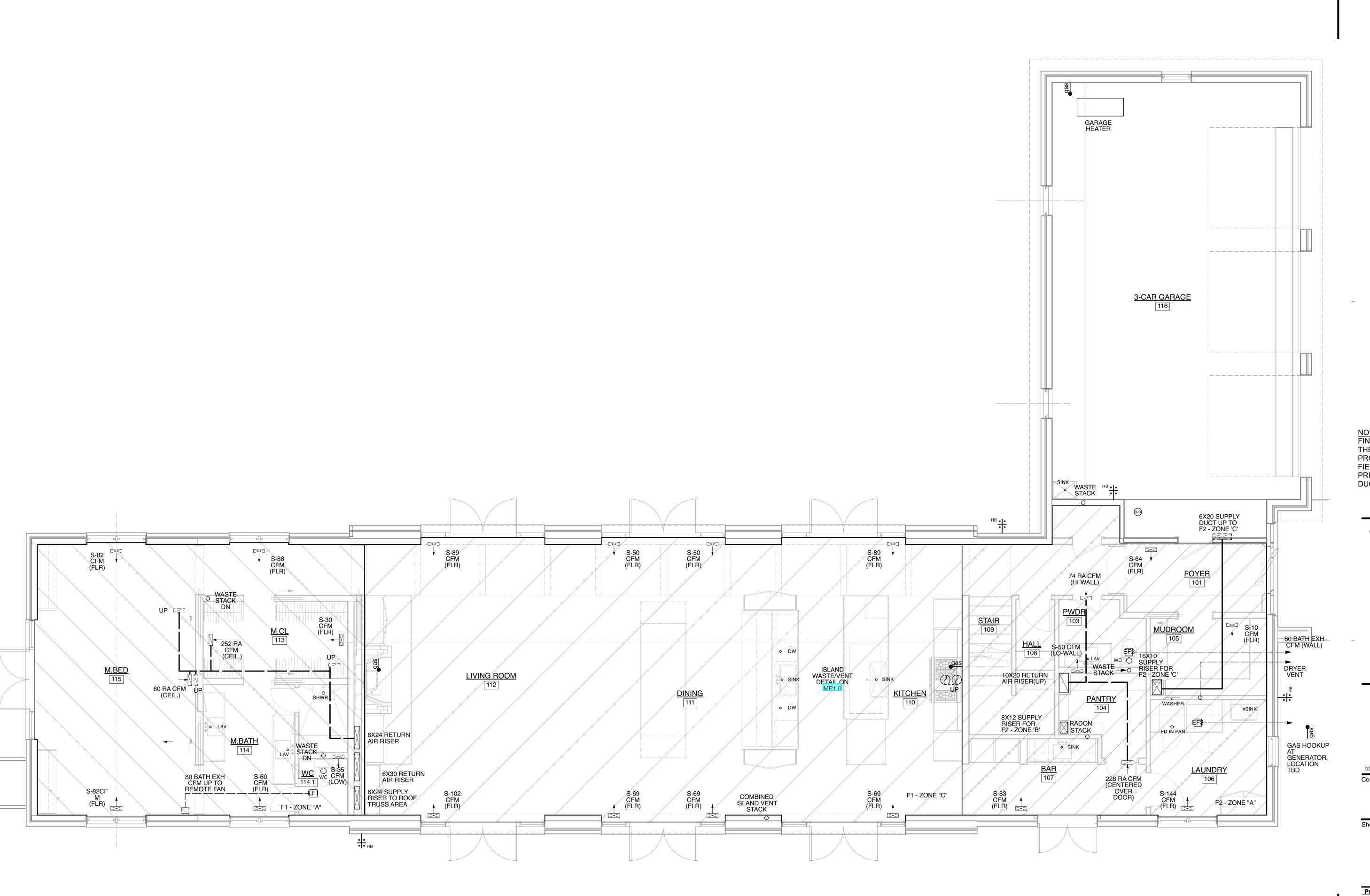


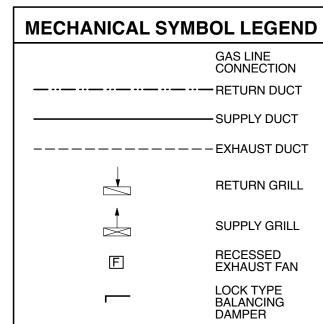
Mech. & Plumbing Plan: Basement

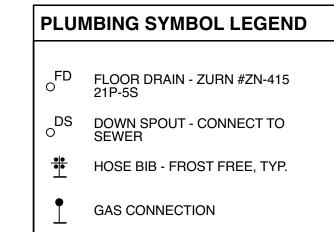
Project No.	Issued For:		Date	
Drawn By: MH/JH/NM	Contract Set	\bigcirc	02.21.23	
Checked By: GB	Pricing	\bigcirc	04.13.22	
Scale: AS NOTED	Fndn Issue	0	04.12.23	
	Review	\bigcirc	04.28.23	
	IFC (Shell)	•	05.03.23	
Sheet Number				
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WIP 2.U

									WASTE STACK		
	ĽΞΊ UP S- C (C	ট⊠1 136 UP FM UP ELG)		ī⊠] UP	t≥1 UP	č≥1 UP	t≅1 UP		<u>I HALL</u> D1	T≥1 UP S-99 CFM (CLG)	UNEXCAVATED 007
S-136 CFM (CLG)	UNFINISHED BASEMENT 005	P L	WASTE STACK ————————————————————————————————————		<u>UNFINISHED</u>			STOR. 003 10X20 RETURN AIR RISER UP	WINE ROOM UP □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	UP □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
(CLG)	SUPPLY TRUNK LINE FOF F1 - ZONE 'A'; RUN BELOV	1	WASTE STACK O 6X30 RETURN AIR RISER	6X34 RETURN AIR RISER SUPPLY TRUNK LINE FOR F1 - ZONE 'C'; RUN BELOW FLOO				8X12 SUPPLY RISER UP TO F2 - ZONE 'B'	RADON STACK WASTE STACK	16X10 SUPPLY RISER UP TO F2 - ZONE 'C' TRUNK LINE FOR F2 - ZONE 'A' as	
	F1 - ZONE 'A'; RUN BELÖV TRUSSES UNTIL EAST OF BEAM UP ₹⊠3	V FLOOR FLVL UP È⊠1	6X20 SUPPLY RISER UP TO	SUPPLY TRUNK LINE FOR F1 - ZONE 'C'; RUN BELOW FLOOT TRUSSES; DUCTS RUN IN BETWEEN TRUSSES UP ERV INTAKE, EXHAUST AND DUCT RUNS (TBD)	UP [⊠]	UP €≅1	UP C≅I	UP ₹ = 1 ERV-2	75 GAL WH	UP €≅1	







NOTE:
FINAL LOCATION OF ALL REGISTERS,
THERMOSTATS AND SENSORS, AND ALL
PROPOSED SOFFITS AND CHASES, TO BE
FIELD-APPROVED BY OWNER & ARCHITECT;
PRIOR TO MODIFICATIONS OR FINAL
DUCTWORK CONNECTIONS.

Grand Island Residence
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Grand Island, NY

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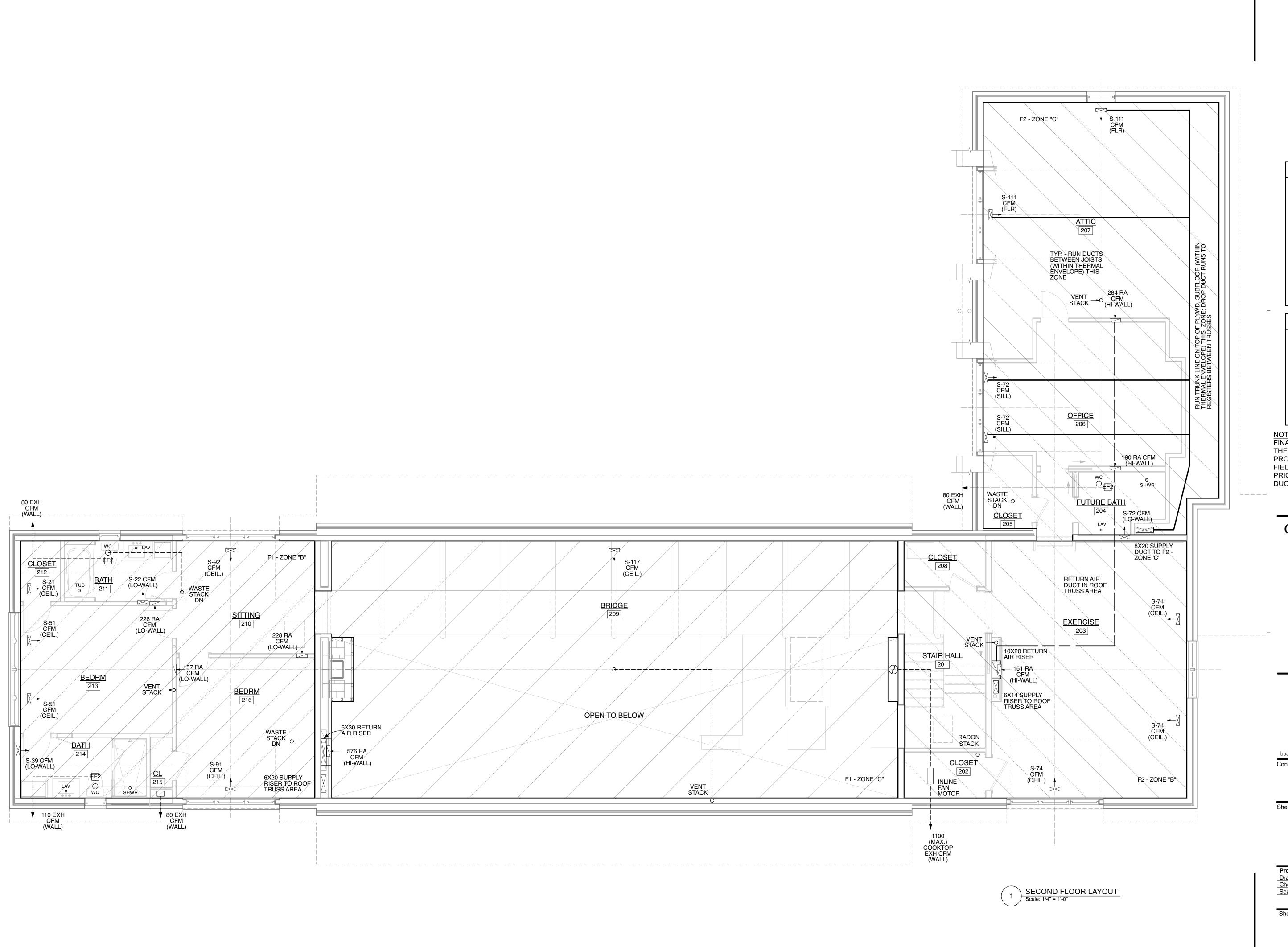
Sheet Title:

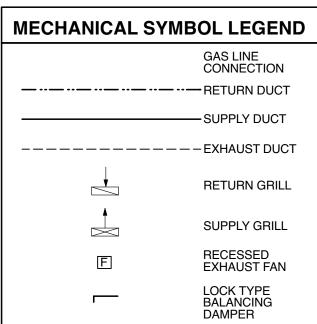
FIRST FLOOR LAYOUT
Scale: 1/4" = 1'-0"

Mech. & Plumbing Plan: First Floor Plan

Project No.	Issued For:		Date
Drawn By: MH/JH/NM	Contract Set	\bigcirc	02.21.23
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	Review	\circ	04.28.23
	IFC (Shell)		05.03.23
Sheet Number			

MP2.1





PLUN	MBING SYMBOL LEGEND
FD O	FLOOR DRAIN - ZURN #ZN-415 21P-5S
ODS O	DOWN SPOUT - CONNECT TO SEWER
•	HOSE BIB - FROST FREE, TYP.
1	GAS CONNECTION

NOTE: FINAL LOCATION OF ALL REGISTERS, THERMOSTATS AND SENSORS, AND ALL PROPOSED SOFFITS AND CHASES, TO BE FIELD-APPROVED BY OWNER & ARCHITECT; PRIOR TO MODIFICATIONS OR FINAL DUCTWORK CONNECTIONS.

Grand Island Residence
4500 E. River Road
Grand Island, NY

Project Number: 2022-0034

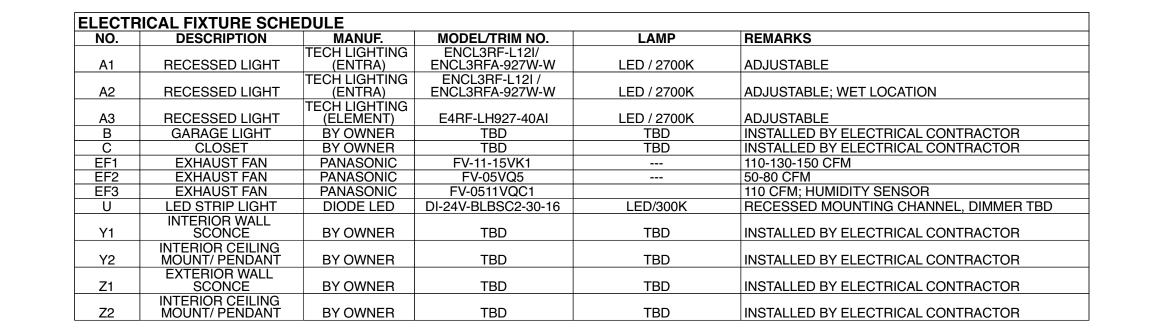


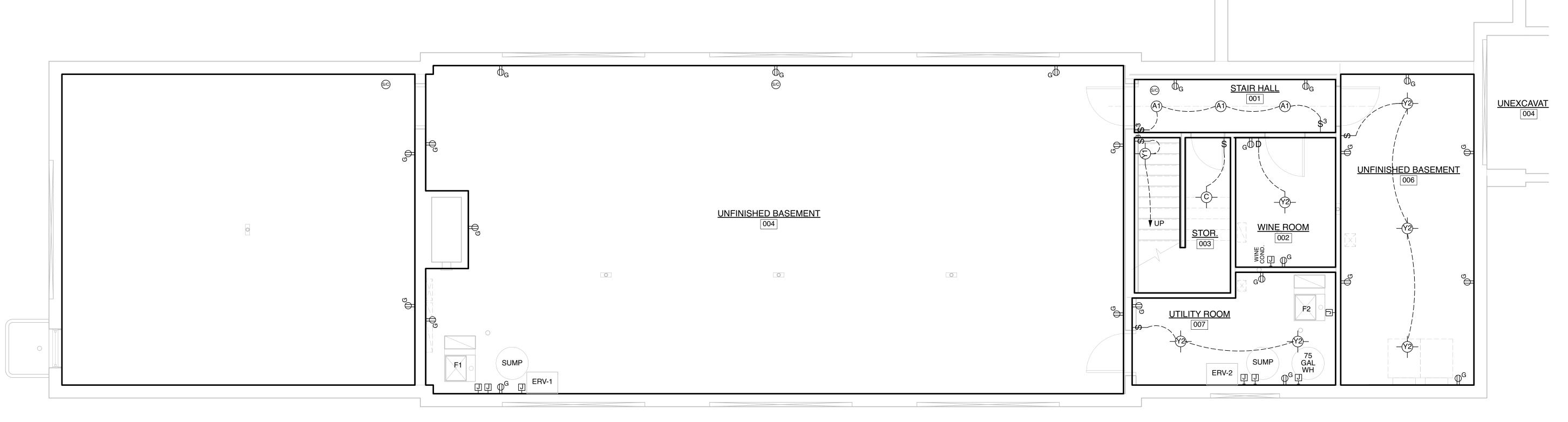
Sheet Title:

Mech. & Plumbing Plan: Second Floor Plan

Project No.	Issued For:		Date
Drawn By: MH/JH/NM	Contract Set	\bigcirc	02.21.23
Checked By: GB	Pricing	\circ	04.13.22
Scale: AS NOTED	Fndn Issue	\bigcirc	04.12.23
	Review	\circ	04.28.23 ^Z
	IFC (Shell)		05.03.23
Sheet Number			

MP2.2





(A) RECESSED DOWNLIGHT —(A)— SURFACE MOUNTED WALL FIXTURE SMOKE / CO DETECTOR LINEAR FIXTURE RECESSED EXHAUST FAN SINGLE POLE SWITCH 3-WAY (+) SWITCH 4-WAY (+) SWITCH DIMMER SWITCH 3-WAY (+) DIMMER JAMB SWITCH MULTI-LOCATION, SINGLE POLE SWITCH DUPLEX RECEPTACLE QUADRUPLEX RECEPTACLE SWITCHED RECEPTACLE (1) GROUND FAULT CIRCUIT RECEPTACLE WEATHER-PROOF RECEPTACLE DUPLEX FLOOR OUTLET JUNCTION BOX THERMOSTAT CONTROL STATION DOORBELL SECURITY KEY PAD INTERCOM AUDIO SYSTEM CONTROL

<u>UNEXCAVATED</u>

1 BASEMENT PLAN
Scale: 1/4" = 1'-0"

ELECTRICAL SYMBOL LEGEND

—(A)— SURFACE MOUNTED FIXTURE

Grand Island Residence 4500 E. River Road Grand Island, NY

PHONE / DATA / FAX ▼ DUPLEX PHONE / DATA / FAX FLOOR PHONE OUTLET TELEVISION / CABLE

SPEAKER

Project Number: 2022-0034

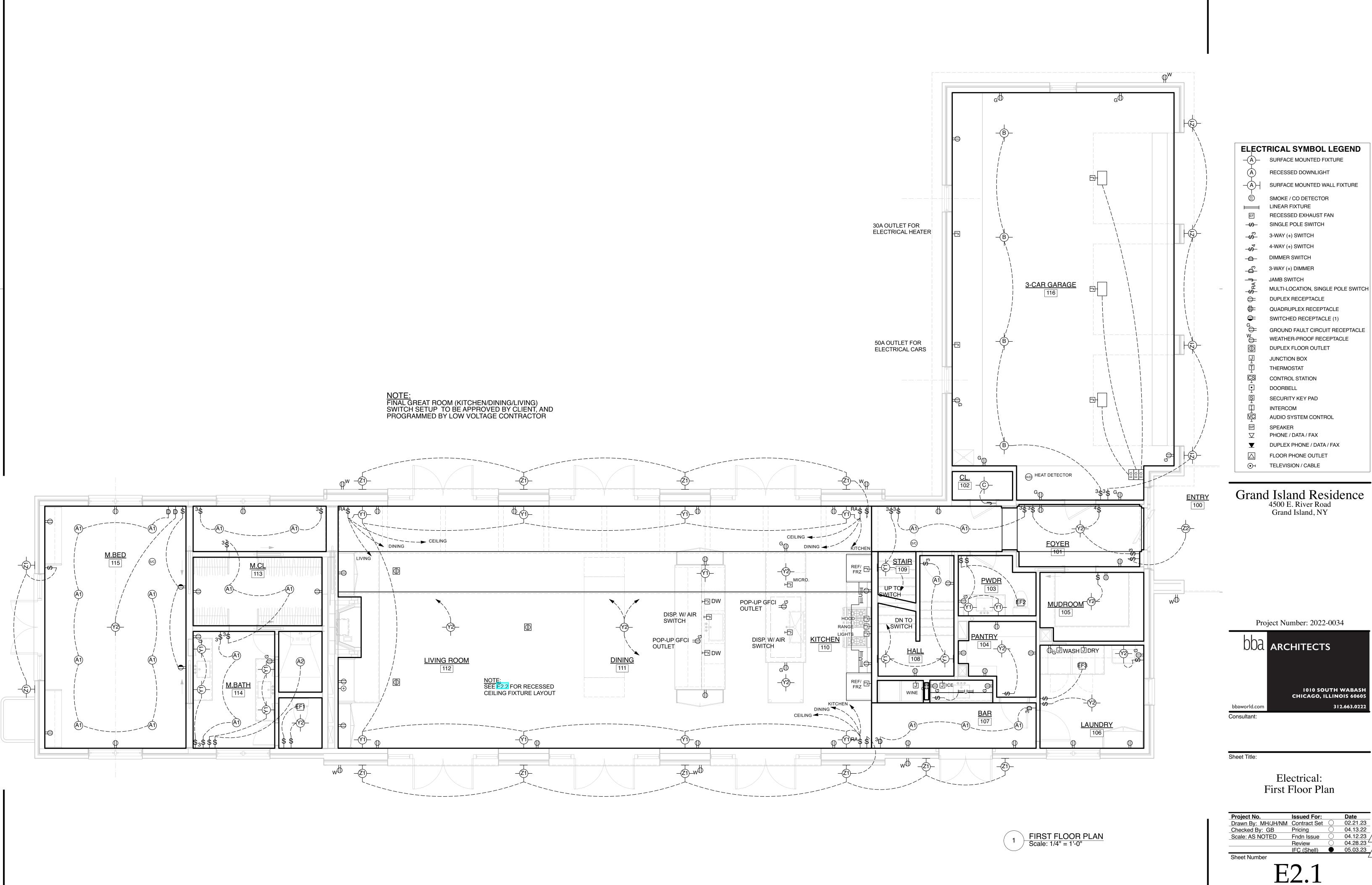


Sheet Title:

Electrical: Lower Level Plan, Schedule

Project No.	Issued For:		Date
Drawn By: MH/JH/NM	Contract Set	\bigcirc	02.21.23
Checked By: GB	Pricing	\circ	04.13.22
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	Review	\circ	04.28.23
	IFC (Shell)		05.03.23
Sheet Number	•		

E2.0



ELECTRICAL SYMBOL LEGEND

—(A)— SURFACE MOUNTED FIXTURE

(A) RECESSED DOWNLIGHT

—(A)— SURFACE MOUNTED WALL FIXTURE

SMOKE / CO DETECTOR LINEAR FIXTURE RECESSED EXHAUST FAN

SINGLE POLE SWITCH 3-WAY (+) SWITCH

4-WAY (+) SWITCH

DIMMER SWITCH

3-WAY (+) DIMMER

JAMB SWITCH

DUPLEX RECEPTACLE

QUADRUPLEX RECEPTACLE

SWITCHED RECEPTACLE (1)

GROUND FAULT CIRCUIT RECEPTACLE

WEATHER-PROOF RECEPTACLE

DUPLEX FLOOR OUTLET JUNCTION BOX

THERMOSTAT

CONTROL STATION

DOORBELL

SECURITY KEY PAD

INTERCOM

AUDIO SYSTEM CONTROL

PHONE / DATA / FAX

DUPLEX PHONE / DATA / FAX

FLOOR PHONE OUTLET

TELEVISION / CABLE

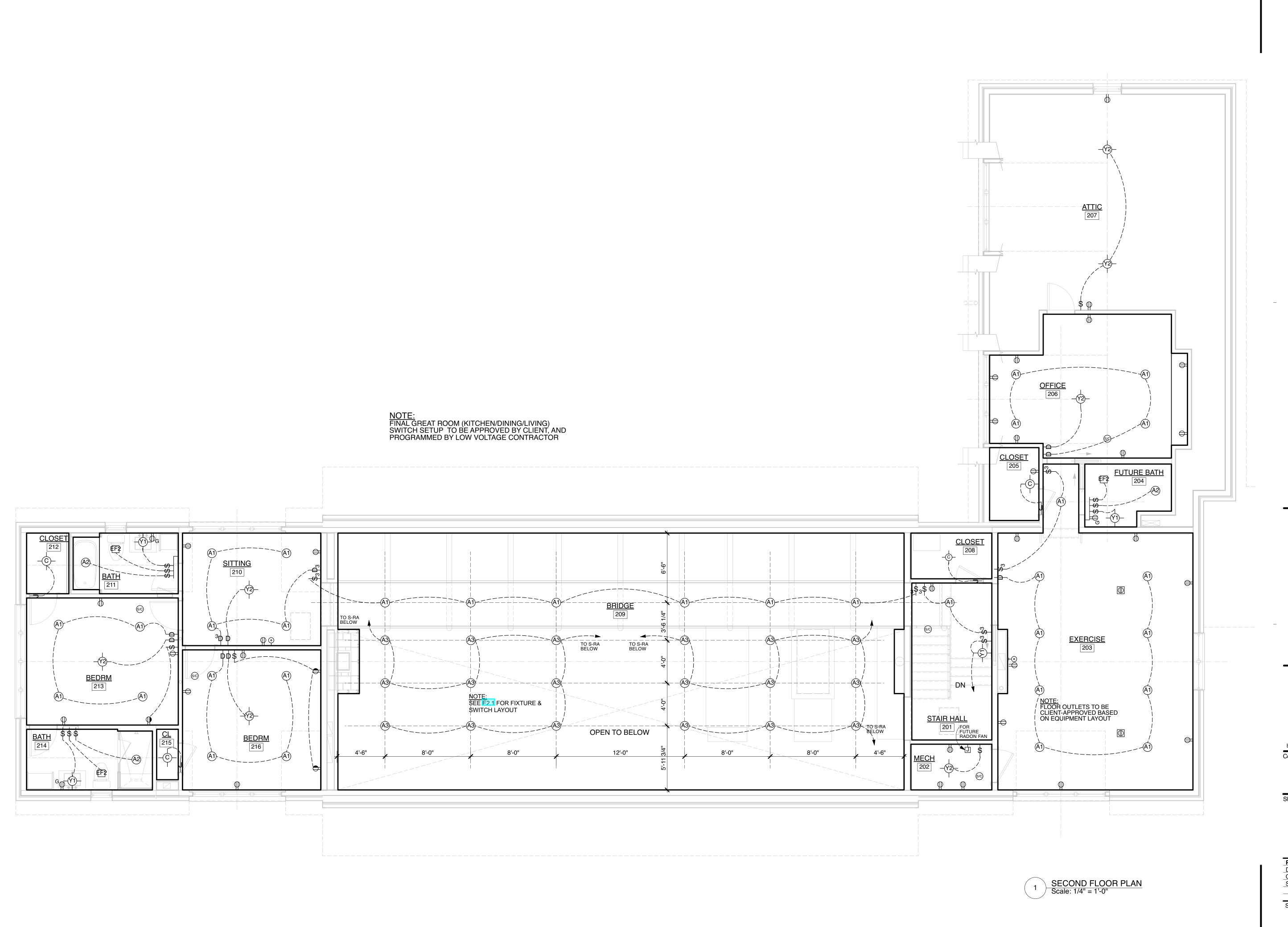
Grand Island Residence
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Grand Island, NY

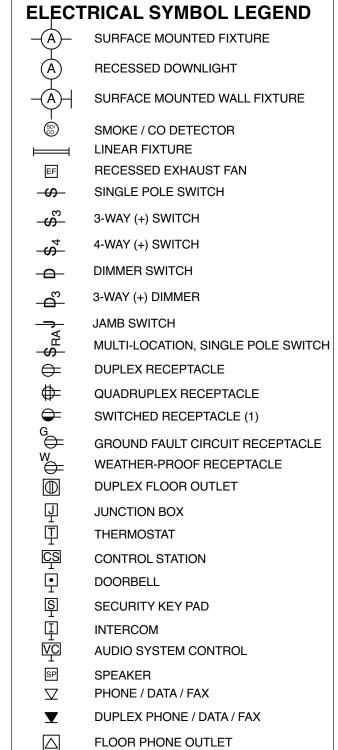
Project Number: 2022-0034



Electrical: First Floor Plan

Project No.	Issued For:		Date
Drawn By: MH/JH/NM	Contract Set	\circ	02.21.23
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	Review	\circ	04.28.23 ^Z
	IFC (Shell)		05.03.23
Sheet Number			





TELEVISION / CABLE

Project Number: 2022-0034



Sheet Title:

Electrical: Second Floor Plan

Project No.	Issued For:		Date
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Sheet Number E2.2