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 License Number #14478
 Expiration Date: 4/30/2022

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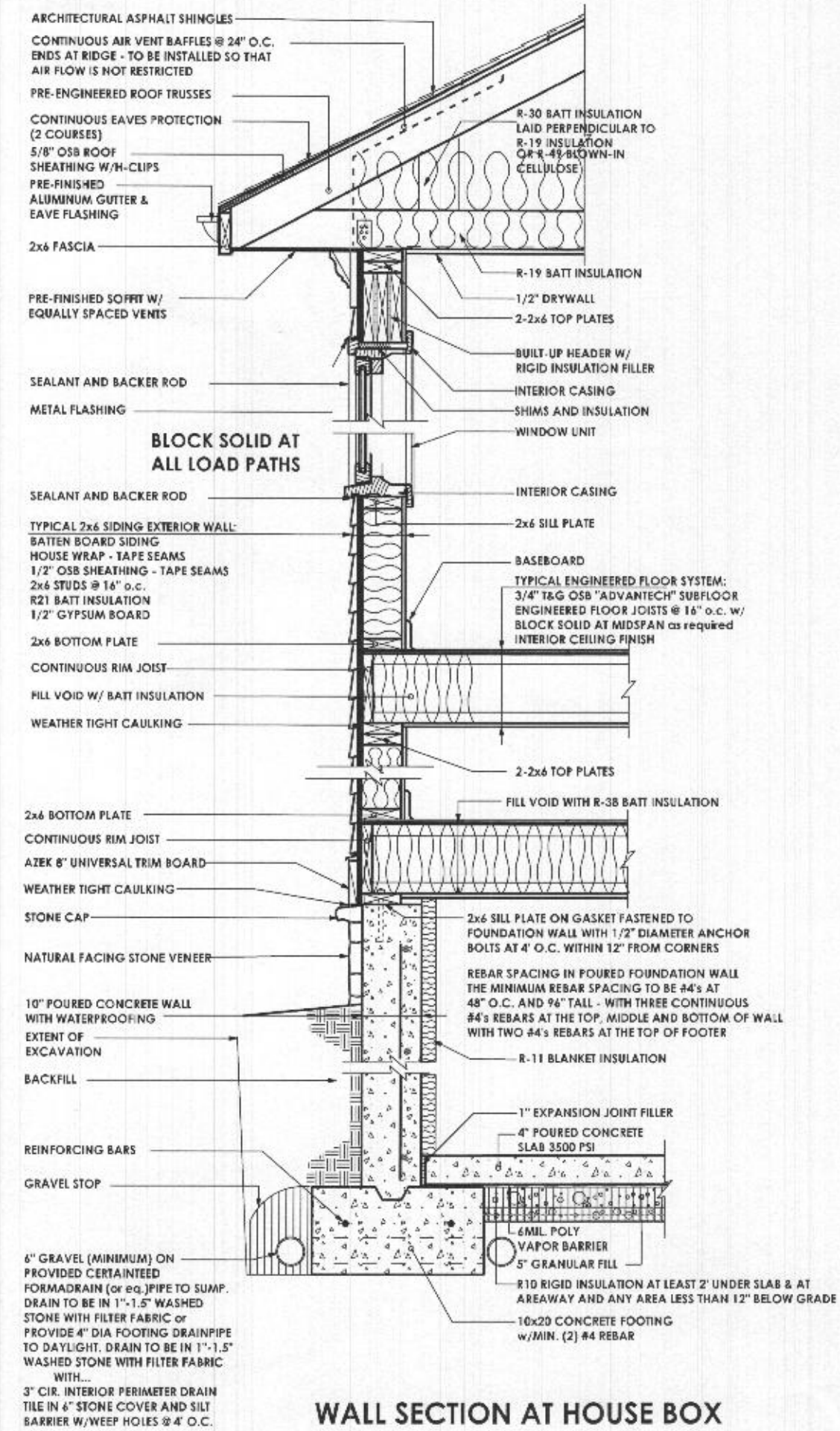
STRUCTURAL ENGINEER
 Name:
 address location:
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ISSUE DATE
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SCALE: 1/4" = 1'-0"

WALL SECTIONS
5.10
 PRINT DATE:
 Wednesday, December 30, 2020



WALL SECTION AT HOUSE BOX

CODE AND STANDARDS

THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED HEREIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

DESIGN LOADS

Table with columns: TYPE, LIVE LOADS, DEAD LOADS, TOTAL. Includes categories like ROOF TRUSSES, RAFTERS, ATTIC FLOORS, etc.

WIND: BASIC WIND SPEED = 115 MPH (ULTIMATE), EXPOSURE B, IMPORTANCE = 1.0
PREScriptive DESIGN PRESSURES = 1.4 PSF (ROOF AVG.), 2.1 PSF (WALL AVG.)

SEISMIC: SEISMIC DESIGN CATEGORY B
ASSUMED ALLOWABLE SOIL BEARING CAPACITY = 1500 PSF

METMECHANICAL UNITS & OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200# SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

WEATHERING IS SEVERE
TERMITES INFESTATION PROBABILITY IS MODERATE TO HEAVY
DECAY PROBABILITY IS MODERATE

SHOP DRAWINGS

THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS FOR APPROVAL.
THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT IF THE GENERAL CONTRACTOR FAILS TO OBTAIN APPROVAL OF THE SHOP DRAWINGS.

STRUCTURAL STEEL

STRUCTURAL STEEL I BEAMS SHALL CONFORM TO ASTM A992 GRADE 50 (50 ksi), STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B, STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A 53, GRADE B & ALL OTHER STRUCTURAL STEEL, INCLUDING PLATES AND MISCELLANEOUS SHAPES SHALL CONFORM TO ASTM A36, 36 ksi.
ALL SURFACES (INSIDE AND OUTSIDE) OF STEEL COLUMNS SHALL BE SHOP COATED WITH RUST-INHIBITIVE PAINT.

WOOD

Table with columns: MATERIAL, S, F, Fc, Faw, Faw, Eaw. Lists materials like UNGRADED FRAMING, TREATED FRAMING, etc.

PREFABRICATED WOOD JOISTS SHALL BE MANUFACTURED BY TRUSSJOIST (MFR/BRANDER) OR APPROVED SUBSTITUTE. THE SUPPLIER SHALL PROVIDE ALL REQUIRED MANUFACTURER'S AND OTHER SPECIAL HARDWARE.

PLYWOOD/OSB SHALL BE APA RATED SHEATHING EXPOSURE 1, GROUP 1, MIN. 4'x8', MIN. SPAN RATING OF 400# LB/SQ YD.

WOOD EXPOSED TO THE ELEMENTS, WOOD IN CONTACT WITH CONCRETE OR MASONRY, AND WOOD DESIGNATED 'TREATED' SHALL BE 40 GRADE SOUTHERN PINE OR BETTER & PRESERVED (PREFERENTIALLY WITH ALKALINE COPPER QUATERNARY (ACQ)) IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD C2, WITH A MIN. RETENTION OF 0.40 LBS. PER CUBIC FOOT OF WOOD.

WOOD FRAMING

ALL TRAPPING SHALL BE CAPABLE OF CARRYING ALL LOADS AS SPECIFIED BY THE CODE (SECTION R602.2) & TRANSMITTING THE RESULTING LOADS TO THE SUPPORT STRUCTURE PER SECTIONS R602.2, R602.2 & R602.2.

ALL INTERIOR NON-LOAD BEARING WALLS SHALL BE 2X4 STUDS AT 24" O.C. (MIN) WITH A SINGLE TOP PLATE.

ALL EXTERIOR AND INTERIOR LOAD BEARING WALLS SHALL BE STUDS AT 24" O.C. (UNCL.) AND SHEATHED WITH 7/8" OSB (EXTERIOR) AND 5/8" GYPSUM SHEATHING (INTERIOR).

ALL STUDS AND TOP PLATES ARE NOT TO BE DRILLED IN EXCESS OF CODE, (SECTIONS R602.2 & R602.2).

ALL POSTS AND MULTIPLE STUDS SHALL BE RIGID CONTINUOUSLY TO SOLID BEARING ON FOUNDATION WALL OR BEAMS, PROVIDE SOLID BLOCKING AT FLOORS.

STUDS & FLOOR FRAMING (JOISTS OR FLOOR TRUSSES) SHALL ALIGN AT CANTILEVERS, ABOVE AND BELOW THE FLOOR FRAMING. COLUMNS SHALL BE ADEQUATELY ANCHORED TO PREVENT INTERNAL DISPLACEMENT.

WOOD CONNECTIONS SHALL BE IN ACCORDANCE WITH PARTIAL FASTENING SCHEDULE. PROVIDE BRIDGING AT EACH END OF THE JOIST, AND ONE ROW OF SOLID BRIDGING BELOW ALL INTERIOR BEARING PARTITIONS.

FASTENERS: JOIST HANGERS, HERRICANE ANCHORS, POST BASES AND OTHER FRAMING ANCHORS ARE TO BE AS MANUFACTURED BY SIMPSON STRONG-TIE, L.L.P., OR EQUAL, AND ARE TO BE USED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS.

THE NUMBER OF WALL STUDS AT BEARING POINTS OF 2X4 MEMBER BEAMS SHALL EXCEED THE NUMBER OF MEMBERS IN THE BEAM BY ONE. THE CENTERLINE OF THE BEAM SHALL BE THE CENTERLINE OF THE SUPPORTING WALL STUDS.

ALL EXTERIOR POSTS TO BE TREATED 6X6 (UNCL.), NOTCH TOP OF POST FOR BEAM BRG. (5% MAX.) AND TRAY NOT IN NEAR TO POST WITH (2) 1/2" DIA. GALV. BOLTS, ALTERNATE PROVIDE COLUMN CAP CONNECTION WITH 8X6 SERIES BY SIMPSON STRONG-TIE OR EQ. PROVIDE SOLID BLOCKING BELOW ALL COLUINS, TO TRANSFER LOAD DIRECTLY TO FOUNDATION BELOW.

PROVIDE DOUBLE JOIST UNDER ALL PARTITIONS PARALLEL TO JOIST SPAN AND AROUND ALL FLOOR AND ROOF OPENINGS. SPACE & BLOCK IF PARTITIONS ANGLE IN A PLUMBING WALL. PROVIDE SOLID BLOCKING AT 12" BETWEEN JOISTS UNDER PARTITIONS ABOVE, WHICH ARE PARALLEL, TO THE JOISTS BUT NOT DIRECTLY OVER THE JOISTS.

NO STRUCTURAL MEMBER SHALL BE CRIPPED, NOTCHED, CUT, BLOCKED OUT OR RELOCATED WITHOUT PRIOR APPROVAL BY THE DESIGNER OR STRUCTURAL ENGINEER. DO NOT ALTER SIZES OF MEMBERS NOTED WITHOUT APPROVAL OF BOTH.

CUTTING OF WOOD BEAMS, JOISTS AND RAFTERS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE-FOURTH THE MEMBER DEPTH AND SHALL NOT BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. NOTCHES LOCATED CLOSER TO SUPPORTS THAN THREE TIMES THE MEMBER DEPTH SHALL NOT EXCEED ONE-FIFTH THE DEPTH.

FOR DIMENSIONAL LUMBER FRAMING, THERE SHALL NOT BE LESS THAN ONE LINE OF BRIDGING IN EVERY EIGHT FEET OF SPAN IN FLOOR, ATTIC AND ROOF FRAMING. THE BRIDGING SHALL CONSIST OF NOT LESS THAN ONE (1) THREE INCH LUMBER DOUBLE NAILED AT EACH END OR OF EQUIVALENT METAL BRACING OF EQUAL RIGIDITY.

ALL JOISTS AND GIRDERS MUST HAVE A MINIMUM BEARING OF 3/4" (WOOD OR STEEL) AND 3/8" (MASONRY OR CONCRETE) AND 3/4" (LAPPED JOISTS).

PROVIDE DRAFTSTOPPING AND FIREBLOCKING IN ACCORDANCE WITH SECTIONS R302.2 AND R302.2 (RESPECTIVELY).

ALL CEILING JOISTS SHOULD ATTACHED TO RAFTERS WITH (5) (6) NAILS.

ALL MULTI-PLY RAFTERS SHALL BE NAILED WITH 3 ROWS OF 16X NAILS AT 8" O.C. STAGGERED OR BOLTED WITH 1/2" DIA. BOLTS AT 8" O.C. STAGGERED (UNCL.).

BALLOON FRAME ALL END WALLS WITH CATHEDRAL CEILING (UNCL.)

FASTEN GABLE-END WALL STUDS TO CEILING DIAPHRAGM BY FASTENING NAILER TO EACH STUD AND BY FASTENING CEILING TO NAILER WITH 16X NAILS AT 8" O.C.

WHERE DECKS FASTEN TO HOUSE FRAMING, PROVIDE CONTINUOUS TREATED LUGGER TRAIL-BOLTED TO FLOOR STRUCTURE WITH (2) 1/2" DIA. BOLTS AT 16" PROVIDE HOT-DIPPED GALV. TRAIL HANGER TO LUGGER.

ALL PLUMB FRAMED ENGINEERED LUMBER BEAM CONNECTIONS TO BE FASTENED WITH BEAM HANGERS AS DESIGNED AND PROVIDED BY ENGINEERED LUMBER MANUFACTURER (UNCL.).

ROOF AND FLOOR FRAMING LAYOUTS ARE PROVIDED TO ILLUSTRATE CONDITIONS OF CONSTRUCTION AND DO NOT NECESSARILY INDICATE SPECIFIC QUANTITIES OF MATERIALS OR COMPONENTS REQUIRED FOR CONSTRUCTION.

CONSTRUCTION BRACING SHALL BE PROVIDED BY THE TRADE SUB-CONTRACTOR TO MAINTAIN THE BUILDING PLUMB AND TRUE. THIS BRACING SHALL REMAIN UNTIL THE SPECIFIED SHEARWALLS ARE TOTALLY INSTALLED.

FRAME CHIMNEYS: FRAME CHIMNEYS SHALL BE CONSTRUCTED OF MINIMUM 40 SIP STUDS, MAXIMUM 16" USE 2 X 4 IF CHIMNEY EXTENDS LESS THAN 8' ABOVE ROOF, OTHERWISE USE 2 X 6 SHEATH WITH 1/2" APA RATED SHEATHING CONTINUOUS ACROSS PLATES AND JOISTS, GUT, AND NAIL WITH 8D NAILS @ 4" O.C. SECURE TO ROOF. STUDS MUST BE CONTINUOUS ACROSS ROOF INTERSECTION.

PROVIDE DISTORTED SHANK WALLS AS REQUIRED, BY I.L. RATINGS.

WOOD TRUSSES

TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THESE SPECIFICATIONS AND WHERE ANY APPLICABLE DESIGN FEATURE IS NOT SPECIFIED HEREIN, DESIGN SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS).

LUMBER USED FOR TRUSS MEMBERS SHALL BE IDENTIFIED BY GRADE MARK OF A LUMBER INSPECTION AGENCY, AND SHALL BE AS SPECIFIED ON DESIGN DRAWINGS. TRUSSES SHALL BE HANDLED DURING FABRICATION, DELIVERY AND AT JOBSITE SO AS NOT TO BE SUBJECT TO EXCESSIVE BENDING.

HANDLE DURING INSTALLATION: IN ACCORDANCE WITH HANDLING, INSTALLING AND BRACING WOOD TRUSSES (HIB-11), TR, AND AN/STR-1 (HIB) INSTALLATION SHALL BE CONSISTENT WITH GOOD WORKMANSHIP AND GOOD BUILDING PRACTICES.

STRUCTURAL ENGINEER OF RECORD SHALL APPROVE SHOP DRAWINGS PRIOR TO SUBMITTAL TO BUILDING OFFICIAL. BUILDING OFFICIAL SHALL APPROVE SHOP DRAWING PRIOR TO INSTALLATION. TRUSSES SHALL BE FABRICATED FROM APPROVED SHOP DRAWINGS.

MANUFACTURER SHALL SUBMIT 3 COPIES OF TRUSS DESIGN DRAWINGS BEARING SEAL OF PROFESSIONAL ENGINEER FOR APPROVAL. PRIOR TO ERECTION AND ENGINEERING DRAWINGS SHALL BE FOR ALL PLATE CHORD TRUSSES.

1. STAMP AND SIGNATURE OF ENGINEER, WHO IS REGISTERED IN THE STATE WHERE THE JOB IS TO BE CONSTRUCTED, RESPONSIBLE FOR PREPARATION OF ALL TRUSS DESIGN AND LAYOUT DRAWINGS.

2. ALLOWABLE LOADS IN LBS/EFFECTIVE NAILED OR PSI FOR LUMBER & PLATES USED AS ALLOWED BY KNO, CURRENT IBCO REPORT NUMBER & BY SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL.

3. STRESS REDUCTION FACTORS USED FOR PLATES.

4. TOP AND BOTTOM CHORD MEMBER LOADS IN PLF.

5. JOIST, GABLE, AND EXACT LOCATION BY EXTENSION OF PLATES.

6. LUMBER SPECIES AND GRADES USED.

7. NAME & TRADEMARK OF PLATE MANUFACTURER, TRUSS FABRICATOR & PROJECT NAME/LOCATION.

8. CONCENTRATED LOAD REQUIREMENTS HAVE BEEN DESIGNED FOR AND SHOWN ON DOCUMENTS.

ALL TRUSSES MUST BE DESIGNED FOR UPLIFT LOADS. UPLIFT VALUES @ EACH TRUSS BEARING POINT MUST BE SHOWN ON TRUSS ENGINEERING SHEET.

ALL ROOF TRUSSES SHALL BE ATTACHED TO PERPENDICULAR NON-LOAD BEARING WALLS WITH TRUSS CLIPS. TRUSS CLIPS SHALL BE ATTACHED TO BLOCKING ON THE WALL AND NOT TO THE TRUSS FOR A DISTANCE OF 18" FROM THE WALL.

ALL FLOOR TRUSSES ON THE LOWEST FLOOR MUST BE ATTACHED TO PERPENDICULAR NON-LOAD BEARING WALLS WITH TRUSS CLIPS. CEILING GBS SHALL BE ATTACHED TO BLOCKING ON THE WALL AND NOT TO THE TRUSS FOR A DISTANCE OF 18" FROM THE WALL.

LIVE LOAD DEFLECTION SHALL NOT EXCEED 1/4" OR L/800 FOR FLOOR TRUSSES AND 1/8" OR L/500 FOR ROOF TRUSSES.

THE MANUFACTURER SHALL SUPPLY ALL REQUIRED HANGERS, HOLD-DOWN CLIPS, AND OTHER SPECIAL HARDWARE.

PARTIAL FOUNDATION

PRIOR TO THE START OF ANY CONSTRUCTION, ALL VEGETATION, TOPSOIL, ORGANIC SOILS, SOILS WITH EXCESSIVE AMOUNTS OF ROOTS, STAMPS, ASPHALT OR OTHER DEFECTIVE MATERIALS SUCH AS BUILDING DEBRIS, EXISTING UTILITY LINES AND BACKFILL SHALL BE REMOVED FROM ALL BUILDING AND PAVEMENT AREAS INCLUDING AT LEAST 5' OF OFFSETS OUTSIDE ALL BUILDING AND PAVEMENT LINES.

TRADE SUB-CONTRACTOR IS TO PROVIDE A DE-WATERING SYSTEM (IF REQUIRED) TO PREVENT SOFTENING OF SUBGRADE, FACILITATE CONTROL OF GROUND WATER AND ALLOW CONSTRUCTION TO PROCEED IN DRY CONDITIONS. NO EXCAVATION SHALL EXTEND CLOSER THAN 2 FT. TO GROUNDWATER LEVEL.

SOILS, FOOTINGS, PARTIAL FOUNDATION WALLS AND SLABS SHALL NOT BE PLACED ON OR IN MARINE CLAY, PEAT OR OTHER ORGANIC MATERIALS. PLACE FOOTINGS ON FIRM, DRY, NON-FROG SUBGRADE. REMOVE SOFT SOILS ENCOUNTERED DURING EXCAVATION. BACKFILL EXCAVATIONS AND AREAS REQUIRING STRUCTURAL FILL WITH CLEAN, WASH, GRANULAR SELECT BORROW (TYPE 'A', GRADE 'V' OR BETTER) IN ACCORDANCE WITH DELDOT STD. (IF ECS). ALL BACKFILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 6-INCHES IN LOOSE THICKNESS. PROPER EQUIPMENT SHALL BE SELECTED AND USED FOR COMPACTION.

WHERE REQUIRED, STEP FOOTINGS IN A RATIO OF 2 HORIZONTAL TO 1 VERTICAL.

FOOTING EXCAVATION SHALL BE INSPECTED BY THE BUILDING OFFICIAL PRIOR TO POURING CONCRETE. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2 HORIZONTAL TO 1 VERTICAL TO A FOOTING.

DESIGN IS BASED ON WATER TABLE 2'-0" (MIN) BELOW BOTTOM OF ALL CONCRETE SLABS & FOOTINGS.

FOOTINGS ADJACENT TO SLOPES GREATER THAN 33% MUST COMPLY WITH SECTIONS R601.2.1 - R 601.2.1.4

FOOTINGS SHALL BE PLACED ON THE SAME DAY THAT THE EXCAVATIONS ARE MADE TO THE FINAL GRADE.

THE TOP OF ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 2'-0" BELOW FINISH GRADE (BEARING BEARING FINISH FLOOR DEPTH). THE TOP OF INTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 2'-0" BELOW FINISH FLOOR.

A STRUCTURAL SLAB SHALL BE USED WHEN UNCOMPACTED FILL EXCEEDS 8'.

ALL TRAPPING SHALL BE A MINIMUM OF 1" ABOVE GRADE AND ALL ADO SIDING SHALL BE 6" ABOVE GRADE.

ANCHOR BOLTS SHALL BE A MINIMUM OF 12" FROM PLATE ENDS, SPACED AT 6" O.C. (MAX.), AND HAVE A MINIMUM OF (2) PER PLATE SECTION. IN LIEU OF ANCHOR BOLTS, THE TRADE SUB-CONTRACTOR MAY USE ANCHOR STRAPS, INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

PROVIDE 1/2" DIA. DRAIN TILE AT BOTTOM OF ALL EXTERIOR FOOTINGS AT BASEMENT WALLS. TILE TO BE SET ON 2" GRAVEL BED WITH 1/2" DIA. GRAY SAND AND SHOULD DRAIN TO DAY-LIGHT OR SUMP PUMP. PROVIDE 1/2" DIA. DRAIN TILE AT INTERIOR OF FOOTING AND BLEEDER PIPES THROUGH FOOTING AS REQUIRED BY GEOTECHNICAL ENGINEER TO DRAIN WATER UNDER SLAB. IN LIEU OF DRAIN TILE, PROPRIETARY DRAINAGE SYSTEMS MAY BE USED (EX. J-DRAIN). INSTALL PROPRIETARY DRAINAGE SYSTEMS PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE FREE DRAINING, GRANULAR BACKFILL (SOL CLASS CL OR BETTER) WITH A MAXIMUM EQUIVALENT FLUID PRESSURE - 60 PSF PER FOOT OF DEPTH AGAINST BASEMENT AND RETAINING WALLS. IF BACKFILL PRESSURE EXCEEDS 60 PSF, THEN WALL MUST BE DESIGNED FOR ACTUAL PRESSURES BY STRUCTURAL ENGINEER.

PARTIAL FOUNDATION DRAINS SHALL BE INSTALLED BY CONCRETE SUBTRADE SUB-CONTRACTOR, BUT LOCATED AT BUILDER'S DISCRETION ACCORDING TO LOCAL SITE CONDITIONS.

DRAIN DISCHARGE TO CONFORM WITH APPROVED SITE PLAN. SUMP CURB TO BE INSTALLED BY CONCRETE SUBTRADE SUB-CONTRACTOR, LOCATED BY BUILDER. NO AREAWAY DRAINS OR CONDENSATE DRAINS SHALL BE TIED INTO THE SANITARY SEWER SYSTEM.

1/2" WATERPROOF PAPER IS TO BE APPLIED TO MASONRY PARTIAL FOUNDATIONS, BUT NOT TO CONCRETE. WATERPROOFING WITH FOLDED IN PLACE CONCRETE.

POURED IN PLACE CONCRETE PARTIAL FOUNDATION WALLS SHALL BE FORM-FORM FACE.

THE SPACE BETWEEN THE BOTTOM OF THE FLOOR JOISTS AND THE EARTH UNDER ANY BUILDING SHALL BE PROVIDED WITH A MINIMUM NET AREA OF VENTILATION OPENINGS OF NOT LESS THAN ONE SQUARE FOOT FOR EACH 50 SQUARE FEET OF GROUND SURFACE AREA. ONE SUCH VENTILATING OPENING SHALL BE WITHIN 3' OF EACH CORNER OF THE BUILDING.

CAST-IN-PLACE CONCRETE

ALL CONCRETE SHALL BE MADE IN ACCORDANCE WITH DESIGN MIXES WHICH ARE TO BE APPROVED BY THE ARCHITECT OR ENGINEER PRIOR TO CASTING ANY CONCRETE. MIXES SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTION AC 308. ALL PLAIN CONCRETE TO CONFORM TO AC 308.1 AND AC 308.2 GUIDE TO RESIDENTIAL CAST-IN-PLACE CONCRETE CONSTRUCTION. MIXES SHALL HAVE A MINIMUM CEMENT CONTENT OF 500 LBS PER CUBIC YD. MAXIMUM WATER/CEMENT RATIO OF 0.53 FOR INTERIOR CONCRETE PROTECTED FROM FREEZING AND 0.45 FOR ALL EXTERIOR EXPOSED CONCRETE.

Table with columns: LOCATION, COMP. STRENGTH, SLUMP. Includes categories like BASEMENT WALLS, BASEMENT SLABS, etc.

NOTE: 1. OTHER, WATER-REDUCING ADMIXTURES TO BE USED AS PER TRADE SPECIFICATIONS. 2. CONCRETE SHALL BE 28-DAY COMPRESSIVE STRENGTH. 3. ALL CONCRETE SHALL BE 28-DAY COMPRESSIVE STRENGTH. 4. ALL CONCRETE SHALL BE 28-DAY COMPRESSIVE STRENGTH.

CONCRETE MATERIALS SHALL CONFORM TO ASTM C150, TYPE 1 FOR PORTLAND CEMENT AND ASTM C93 FOR AGGREGATES. WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494, TYPE A (FREE OF CALCIUM CHLORIDES). AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260 AND HIGH-RANGE WATER REDUCERS (SUPER-PLASTICERS) SHALL CONFORM TO ASTM C494, TYPE B. FLY ASH SHALL CONFORM WITH ASTM C94 FOR CLASS F AND SHALL NOT BE PRESENTED IN MIXES WITH MORE THAN 20% CONTENT BY WEIGHT LIQUID-WATER. DURING CONCRETE MIXES BE HIGH-SOLIDS, WATER AND ACRYLIC-BASED, COMPYING WITH ASTM C909 AS TESTED UNDER ASTM C909. SLUMP OF THE CONCRETE SHALL BE A MINIMUM OF 4-INCHES AND A MAXIMUM OF 6-INCHES. SEE THE PROJECT SPECIFICATIONS FOR THE COMpressive STRENGTH IS BASED 28-DAY COMPRESSIVE STRENGTH.

REBAR SHALL BE HIGH STRENGTH NEW BUILT STEEL CONFORMING TO ASTM A-66, GRADE 60 (60,000 psi) - DISTORTED HELDED WIRE FABRIC SHALL CONFORM TO ASTM A-6

REINFORCING PROTECTION SHALL BE AS FOLLOWS: FOOTINGS AND OTHER CONCRETE PLACED AGAINST EARTH 3" FORMED CONCRETE EXPOSED TO EARTH 2" FORMED CONCRETE NOT EXPOSED TO EARTH 1/2" SLABS ON GROUND, UNLESS NOTED OTHERWISE MID-DEPTH OF SLAB

SLAB ISOLATION JOINTS: PROVIDE PRE-FORMED JOINT FILLER AROUND ALL FINISH, PERS & PARTIAL FOUNDATION WALLS.

ALL CONCRETE TO BE PLACED IN THE CELLS OF CONCRETE MASONRY UNITS (CMU BLOCK FILL), OR IN THE JOISTS OF BRICK MASONRY CONSTRUCTION, SHALL CONTAIN 1% GRAVEL (3/8" MAX STONE) IN LIEU OF CONCRETE AGGREGATE. THE CONCRETE MIX SHALL CONTAIN A HIGH-RANGE WATER REDUCER (SUPER-PLASTICER) SLUMP OF THE CONCRETE SHALL BE A MINIMUM OF 4" AND A MAXIMUM OF 6". SEE THE PROJECT SPECIFICATIONS.

ALL EXTERIOR CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED, AS WELL AS AIR-ENTRAINED CONCRETE NET OF PERMITTED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. USE OF ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE PERMITTED. DO NOT USE HIGH-RANGE WATER REDUCING ADMIXTURES IN AIR-ENTRAINED CONCRETE. CONFORM TO ASTM C260.

ADDITION OF WATER TO THE CONCRETE AT THE JOB SITE FOR THE PURPOSE OF INCREASING THE SLUMP OR FOR RETEMPERING THE CONCRETE WHICH HAS BEGUN TO SET IS STRICTLY PROHIBITED. SEE THE PROJECT SPECIFICATIONS FOR REQUIREMENTS OF WATER ADDITION TO CONCRETE AT THE JOBSITE.

SLABS ON GRADE SHALL BE 4" THICK CONCRETE AND REINFORCED WITH #4x4x4 W/6" (PLATE SHEETS), WELDED WIRE FABRIC SHALL BE SUPPORTED ON HIGH CHAIRS SO THAT THE FABRIC IS POSITIONED AT MID-DEPTH OF THE SLAB THICKNESS. LAP ONE FULL W/6 PLUS 2" AT SPLICES IN EACH DIRECTION. PLACE CONCRETE OVER 10" FILL. POLYETHYLENE VAPOR BARRIER AND 4" MINIMUM ASTH C94 #4 OR #6 - 408 VOID. THE AGGREGATE LAYER SHALL BE PLACED OVER FIRM NATURAL SUBGRADE OR ON COMPACTED AND CONTROLLED FILL. FILL UNDER SLABS SHALL BE COMPACTED IN 6" INCH LAYERS TO 98% MAX. DENSITY. USE AIR-ENTRAINED AT ALL EXTERIOR SLABS.

CONCRETE FOR SLAB-ON-GRADE SHALL BE PLACED IN A SINGLE LIFT WITH A FINISH AND FINNER THAT IS CONSISTENT WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE. LOCATE CONSTRUCTION AND CONTROL JOINTS IN SUCH A MANNER TO MINIMIZE THE EFFECTS OF SHRINKAGE OF THE CONCRETE SLAB SECTIONS. SUBMIT TO THE ARCHITECT/ENGINEER THE SEQUENCE AND METHOD OF CASTING CONCRETE SLABS-ON-GRADE PRIOR TO PLACING THESE ELEMENTS. POUR SLABS IN ALTERNATE PANELS WITH A MAXIMUM OF 600 SF AND PROVIDE CONTROL AND CONSTRUCTION JOINTS AT 18'-0" MAXIMUM OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING.

SLAB CONTROL JOINTS: SPAN OUT OR FORM TO 1/3 SLAB DEPTH. SPACE NO MORE THAN 5 FEET APART. DISCONTINUE HELDED WIRE FABRIC AT CONTROL JOINTS. PROVIDE JOINTS ON GROUND SUPPORTED SLABS IN RECTANGULAR CONFIGURATION, WITH THE LONGER SIDE NO MORE THAN ONE-AND-ONE-HALF TIMES THE LENGTH OF THE SHORTER SIDE.

THE TRADE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR FINISHING AND INSTALLING AND/OR BOLTS, CLIPS, INSERTS, CONNECTION PLATES, SLICES, SLOTS AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DRAWINGS, AND IN COOPERATION WITH OTHER TRADES PRIOR TO PLACING CONCRETE.

ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI'S MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES, (ACI-308), DETAILS OF REINFORCEMENT SHALL CONFORM TO ACI 318, AC 308, AND CRSI STANDARDS.

ALL REINFORCING STEEL (INCLUDING HELDED WIRE FABRIC) SHALL BE SECURELY TIED AND ANCHORED IN PLACE TO PREVENT DISLOCATION DURING THE LACING OPERATION.

REINFORCING STEEL SHALL BE CLEAN OF OIL, GREASE, LOOSE RUST, GROUT, OR ANY OTHER MATERIAL WHICH MAY INHIBIT THE BOND BETWEEN THE STEEL AND CONCRETE.

AT CORNERS, ALL HORIZONTAL REINFORCEMENT SHALL EXTEND AROUND CORNER AND LAP REINFORCEMENT SHALL BE A MINIMUM OF 30 BAR DIAMETERS (4x12", 6x14", 8x18"). PROVIDE DONUTS BETWEEN ALL FOOTINGS, WALLS AND PERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

DRY PACK SHALL CONSIST OF 3/4" GROUT 22 OR APPROVED SUBSTITUTE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

MASONRY: ALL MASONRY WORK SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF 216 AND 2014 SPECIFICATIONS FOR MASONRY STRUCTURE (ACI 530.1P) PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.

Table with columns: HOLLOW CMU, FACE BRICK, STEEL VENER, MORTAR, VENEER. Lists specifications for masonry materials.

ANCHORED VENEER WALLS TO HAVE NON-CORROSIVE METAL TIES AT 16" O.C. VERTICALLY AND HORIZONTALLY AND EMBEDDED IN MORTAR A MINIMUM 1-1/2" WITH AT LEAST 5/8" COVER (OUTSIDE FACE). VENEER TIES SHALL BE NO. 27 U.S. GAGE & 7/8" CORRUGATED SHEET METAL OR N#9 U.S. GAGE WIRE WITH A HOOK.

ANCHORED MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS ON WATER RESISTANT BARRIER.

PROVIDE KEEP HOLES AT 24" O.C. AT BASE FLASHING.

ASK STEEL LINTEL SIZES FOR OPENINGS 4" THICKNESS OF MASONRY WALL AS FOLLOWS: 1'-0" SPAN OR LESS 1 1/2" x 2 1/2" S/W 7'-6" SPAN OR LESS 1 1/2" x 3 1/2" S/W 2'-0" SPAN OR LESS 1 1/2" x 5/8" 9'-0" SPAN OR LESS 1 1/2" x 5/8" PROVIDE MIN. 6" BEARING, EACH END & BRACK TIES, 16" O.C. @ 16" COURSE ABOVE LINTEL. LINTEL SHALL BE SHOP COATED WITH A RUST-INHIBITIVE PAINT.

MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION.

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STRUCTURAL ENGINEERING MID-ATLANTIC STRUCTURAL ENGINEERING 1835 MILLER GARDEN ROAD MONROEVILLE, NJ 08033 (717) 304-8407 www.midatl-se.com

PROFESSIONAL CERTIFICATION I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland. License Number #21446 Expiration Date: 2/14/2021

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ISSUE DATE

Table with columns: DATE, NO. Includes a grid for tracking issue dates.

SCALE: NOTES

SN.1

PRINT DATE Friday, October 2, 2020

MISCELLANEOUS

THE TRADE SUB-CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT AND FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS.

THE TRADE SUB-CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE TRADE SUB-CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE TRADE SUB-CONTRACTOR.

THE TRADE SUB-CONTRACTOR IS TO VERIFY ALL OPENING SIZES AND LOCATIONS WITH THE REQUIREMENTS OF OTHER TRADES PRIOR TO FABRICATION AND ERECTION.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, AND THE TRADE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH STRUCTURAL WORK.

EARTH RETAINING WALLS, OTHER THAN CANTILEVERED TYPE WALLS, SHALL BE ADEQUATELY BRACED UNTIL CONCRETE FOR SUPPORTING SLABS HAS BEEN PLACED AND ALL CONCRETE HAS CURED.

THE TRADE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, FURNISHING, ERECTING AND REMOVING ANY TEMPORARY SHORING AND BRACING DURING CONSTRUCTION.

THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT THE PROPER TIME WHEN ALL ITEMS ARE READY FOR OBSERVATION. SUFFICIENT NOTICE SHALL BE GIVEN BY THE TRADE SUB-CONTRACTOR TO ALLOW FOR SCHEDULING OF OBSERVATIONS.

SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED BY THE TRADE SUB-CONTRACTOR OR SUBCONTRACTOR DURING ALL TYPES OF WORK ON THIS PROJECT. THE ARCHITECT OR ENGINEER SHALL NOT HAVE CONTROL, OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR ACTS OF OMISSIONS OF THE TRADE SUB-CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

ALL SPECIALTY BOLTS, INCLUDING EXPANSION TYPE AND EPOXY TYPE ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

THE TRADE SUB-CONTRACTOR SHALL PROTECT FROM DAMAGES EXISTING BUILDING(S), OWNER EQUIPMENT, ROADS, WALKS AND UTILITIES. THE TRADE SUB-CONTRACTOR SHALL MAINTAIN THESE DURING THE COURSE OF THE WORK, AND SHALL REPAIR ALL DAMAGES AT NO ADDITIONAL EXPENSE TO THE OWNER.

IN AREAS WHERE THE DRAWINGS DO NOT ADDRESS METHODOLOGY, THE TRADE SUB-CONTRACTOR SHALL BE NOTIFIED TO PERFORM A STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS.

ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS. NOTED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.

THE GENERAL NOTES AND TYPICAL DETAILS APPLY THROUGHOUT THE JOB UNLESS OTHERWISE NOTED OR SHOWN.

THE TRADE SUB-CONTRACTOR SHALL COMPARE AND COORDINATE ALL DRAWINGS. IF A DISCREPANCY EXISTS, HE SHALL PROMPTLY REPORT IT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.

IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED.

THESE PLANS ARE SUBJECT TO MODIFICATIONS AS NECESSARY TO MEET CODE REQUIREMENTS OR TO FACILITATE MECHANICAL, PLUMBING INSTALLATIONS OR TO INCORPORATE DESIGN IMPROVEMENTS.

DO NOT BUILD OVER GAS LINES OR ENCLOSE THE METER. CONSULT THE LOCAL GAS COMPANY PRIOR TO CONSTRUCTION.

CHIMNEY SHALL EXTEND AT LEAST 2 FEET HIGHER THAN ANY PORTION OF THE BUILDING WITHIN 10 FEET, BUT SHALL NOT BE LESS THAN 3 FEET ABOVE THE POINT WHERE IT PASSES THROUGH THE ROOF.

DECKS ARE NOT APPROVED FOR FUTURE HOT TUB INSTALLATION.

NO OPENING NOR ANY CHANGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL ELEMENTS WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE NOTIFIED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS, INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP, FABRICATION OR OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.

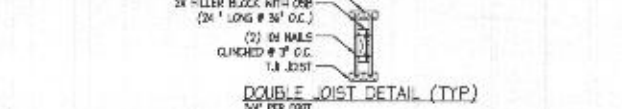
THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDANT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION, THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE TRADE SUB-CONTRACTOR. THE TRADE SUB-CONTRACTOR SHALL SUPPLY ANY NECESSARY SHORING, BRACING, CUTS, ETC., TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL NOT PLACE BACK FILL AGAINST EXISTENT WALLS UNTIL THE FLOOR SYSTEM IS COMPLETELY INSTALLED OR CONTRACTOR HAS PROVIDED ADEQUATE SHORING AND BRACING. ANY QUESTIONS REGARDING TEMPORARY SHORING REQUIREMENTS SHOULD BE FORWARDED TO THE STRUCTURAL ENGINEER FOR REVIEW.

PARTIAL FASTENING SCHEDULE

DETAIL	CONNECTION	NAIL SIZE (LENGTH x DIAMETER IN INCHES)							
		3/8" x 3 1/2"	3/8" x 4"	3/8" x 4 1/2"	3/8" x 5"	3/8" x 5 1/2"	3/8" x 6"	3/8" x 6 1/2"	3/8" x 7"
	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOE PLATE (TOE NAIL - EACH END)	3	3	3	3	3	3	3	3
	CEILING JOISTS TO TOP PLATE (TOE NAIL)	3	3	3	3	3	3	3	3
	CEILING JOIST LAP OVER PARTITION (NO THRUST) (FACE NAIL)	3	4	4	4	4	4	4	4
	CEILING JOIST TO PARALLEL RAFTER	SEE IRC TABLE R602.5.1(4)							
	COLLAR TIE TO RAFTER (FACE NAIL)	3	3	3	4	4	4	4	5
	RAFTER / TRUSS TO PLATE (TOE NAIL)	3	3	3	3	4	4	4	4
	RAFTER TO RIDGE, VALLEY OR HIP RAFTER OR ROOF RAFTER (END NAIL)	3	4	4	4	5	5	5	5
	RAFTER TO RIDGE, VALLEY OR HIP RAFTER OR ROOF RAFTER (TOE NAIL)	3	4	4					
	STUD TO STUD (FACE NAIL) (NOT AT BRACED PANEL)	24" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.
	ABUTTING STUDS AT CORNERS AND INTERSECTION (FACE NAIL) (NOT AT BRACED PANEL)	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	STUD TO STUD (FACE NAIL) (AT BRACED PANEL)	16" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	ABUTTING STUDS AT CORNERS AND INTERSECTION (FACE NAIL) (AT BRACED PANEL)	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	BUILT UP HEADER, TWO PIECES WITH 1/2" SPACER	12" O.C.	8" O.C.	8" O.C.	12" O.C.	8" O.C.	8" O.C.	8" O.C.	8" O.C.
	CONTINUOUS HEADER TO STUD (TOE NAIL)	3	4	4	4	4	4	4	4
	KING STUD TO HEADER (FACE NAIL) (EACH FLY)	2x6	2	2	2	2	2	2	2
	TOP PLATE TO TOP PLATE (FACE NAIL)	16" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	DOUBLE TOP PLATE LAP SPLICE (FACE NAIL) (4'-0" MINIMUM)	8	12	12	12	12	12	12	12
	SOLE PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (FACE NAIL) (NOT AT BRACED PANEL)	16" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	SOLE PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (FACE NAIL) (AT BRACED PANEL)	2 # 8	3 # 8	3 # 8	3 # 8	4 # 8	4 # 8	4 # 8	4 # 8
	TOP OR BOTTOM PLATE TO STUD (END NAIL)	3	3	3	3	4	4	4	4
	TOP OR BOTTOM PLATE TO STUD (TOE NAIL)	3	4	4	4	4	4	4	4
	DOUBLE TOP PLATE OVERLAP AT CORNERS AND INTERSECTION (FACE NAIL)	2	3	3	3	3	3	3	3
	JOIST TO TOP/BOTTOM PLATE OR GIRDER (TOE NAIL)	3	3	3	3	3	3	3	3
	RIM JOIST, BAND JOIST OR BLOCKING TO TOP/BOTTOM PLATE (TOE NAIL)	6" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.	6" O.C.
	BAND OR RIM JOIST TO JOIST (END NAIL)	3	4	4	4	4	4	4	4
	BUILT-UP BEAM AND GIRDERS, (FACE NAIL AT TOP AND BOTTOM)	24" O.C.	24" O.C.	24" O.C.	24" O.C.	24" O.C.	24" O.C.	24" O.C.	24" O.C.
	FLANGE AT ENDS OR SPLICES	3	3	3	3	3	3	3	3

NAILS CAN BE PNEUMATIC OR STANDARD PENNY HEAD NAILS



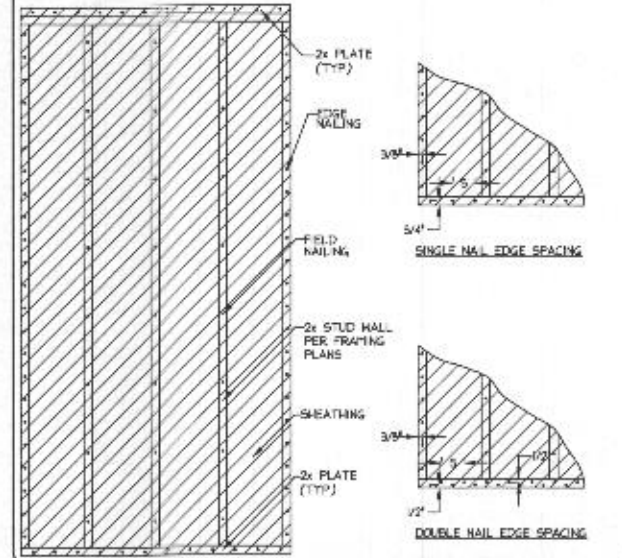
T.J.	FILLER AND SACKER BLOCK SIZES		
	30	20	250 OR 360
DEPTH	1-1/2" OR 1-3/4" 1/4"	1-1/2" OR 1-3/4" 1/4" OR 1/2"	1-1/2" OR 1-3/4" 1/4" OR 1/2"
FILLER BLOCK (DETAIL 107)	2x6	2x6 + 3/8" SHEATHING	2x6 + 1/2" SHEATHING
	2x6	2x6 + 3/8" SHEATHING	2x6 + 1/2" SHEATHING
	2x6	2x6 + 3/8" SHEATHING	2x6 + 1/2" SHEATHING
	2x6	2x6 + 3/8" SHEATHING	2x6 + 1/2" SHEATHING

* IF NECESSARY, INCREASE FILLER AND SACKER BLOCK HEIGHT FOR FACE POINT HANDLES AND PARTIAL 1/4" GAP AT TOP OF JOIST.

PARTIAL SHEATHING FASTENING SCHEDULE

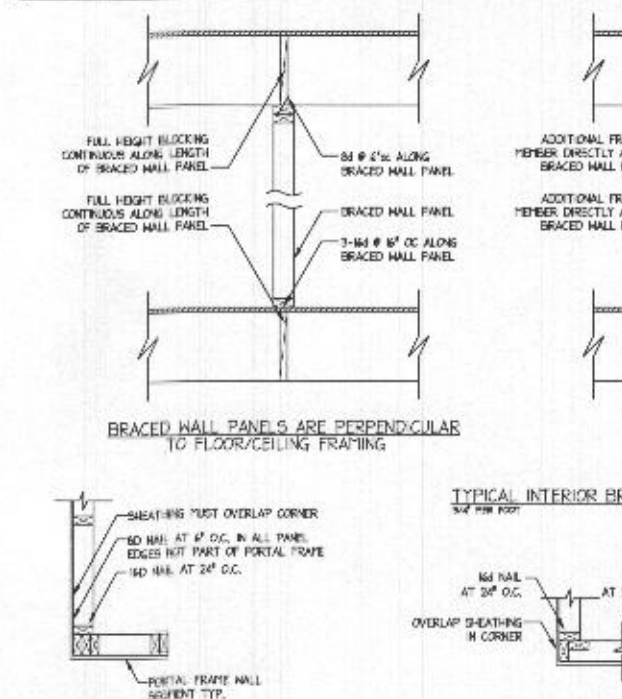
SHEATHING	FASTENERS	SPACING OF FASTENERS EDGES / BODY OF PANEL	
		EDGES	BODY OF PANEL
1/2" PLYWOOD	#2 COMMON (2 1/2"x10 1/2") (FLOOR, WALL)	6	12
5/8" PLYWOOD	#4 COMMON (2 1/2"x10 1/2") (ROOF)	6	12
1/2" PLYWOOD	#3 COMMON (3"x10 1/2") OR #2 (2 1/2"x10 1/2") DEFORMED	6	12
1/2" GYPSUM	1 1/2" GALV. ROOFING; 1 1/2" GALV. STAPLE; 1 1/2" SURECH (TYPE 5 OR 6)	4	8
1/2" GYPSUM	1 3/4" GALV. ROOFING; 1 3/4" GALV. STAPLE; 1 3/4" SURECH (TYPE 5 OR 6)	4	8

FOR ALTERNATE FASTENERS AND SPACINGS SEE IRC TABLE R602.3(2)



GARAGE GRADE BEAM SCHEDULE

SPAN (FT)	BEAM SIZE (IN)	DEPTH (4)	FLEXURE REINFORCEMENT
4	12" x 12"	12.75"	(3) #4
6	12" x 12"	12.75"	(4) #4
8	12" x 12"	12.75"	(5) #4
10	12" x 12"	12.75"	(6) #4
12	12" x 12"	12.75"	(6) #4
14	12" x 12"	12.75"	(7) #4
16	12" x 12"	12.75"	(7) #4
18	12" x 12"	12.75"	(7) #4
20	12" x 12"	12.75"	(7) #4
22	12" x 12"	12.75"	(7) #4
24	12" x 12"	12.75"	(7) #4
26	12" x 12"	12.75"	(7) #4
28	12" x 12"	12.75"	(7) #4
30	12" x 12"	12.75"	(7) #4
32	12" x 12"	12.75"	(7) #4
34	12" x 12"	12.75"	(7) #4
36	12" x 12"	12.75"	(7) #4



ISOLATED FOOTING SCHEDULE

MARK (FPM)	SOIL CLASSIFICATIONS / PRESUMPTIVE BEARING CAPACITIES			
	CL, ML, FH & CH (5000 psf)	SM, SP, SH, SC, ST & GC (2000 psf)	SS, SS (2500 psf)	GM, GP (3000 psf)
F24	24" x 24"	24" x 24"	24" x 24"	24" x 24"
F26	26" x 26"	26" x 26"	26" x 26"	26" x 26"
F28	28" x 28"	28" x 28"	28" x 28"	28" x 28"
F30	30" x 30"	30" x 30"	30" x 30"	30" x 30"
F32	32" x 32"	32" x 32"	32" x 32"	32" x 32"
F34	34" x 34"	34" x 34"	34" x 34"	34" x 34"
F36	36" x 36"	36" x 36"	36" x 36"	36" x 36"
F38	38" x 38"	38" x 38"	38" x 38"	38" x 38"
F40	40" x 40"	40" x 40"	40" x 40"	40" x 40"
F42	42" x 42"	42" x 42"	42" x 42"	42" x 42"
F44	44" x 44"	44" x 44"	44" x 44"	44" x 44"
F46	46" x 46"	46" x 46"	46" x 46"	46" x 46"
F48	48" x 48"	48" x 48"	48" x 48"	48" x 48"
F50	50" x 50"	50" x 50"	50" x 50"	50" x 50"
F52	52" x 52"	52" x 52"	52" x 52"	52" x 52"
F54	54" x 54"	54" x 54"	54" x 54"	54" x 54"
F56	56" x 56"	56" x 56"	56" x 56"	56" x 56"
F58	58" x 58"	58" x 58"	58" x 58"	58" x 58"
F60	60" x 60"	60" x 60"	60" x 60"	60" x 60"
F62	62" x 62"	62" x 62"	62" x 62"	62" x 62"
F64	64" x 64"	64" x 64"	64" x 64"	64" x 64"
F66	66" x 66"	66" x 66"	66" x 66"	66" x 66"
F68	68" x 68"	68" x 68"	68" x 68"	68" x 68"
F70	70" x 70"	70" x 70"	70" x 70"	70" x 70"
F72	72" x 72"	72" x 72"	72" x 72"	72" x 72"
F74	74" x 74"	74" x 74"	74" x 74"	74" x 74"
F76	76" x 76"	76" x 76"	76" x 76"	76" x 76"
F78	78" x 78"	78" x 78"	78" x 78"	78" x 78"
F80	80" x 80"	80" x 80"	80" x 80"	80" x 80"
F82	82" x 82"	82" x 82"	82" x 82"	82" x 82"
F84	84" x 84"	84" x 84"	84" x 84"	84" x 84"
F86	86" x 86"	86" x 86"	86" x 86"	86" x 86"
F88	88" x 88"	88" x 88"	88" x 88"	88" x 88"
F90	90" x 90"	90" x 90"	90" x 90"	90" x 90"
F92	92" x 92"	92" x 92"	92" x 92"	92" x 92"
F94	94" x 94"	94" x 94"	94" x 94"	94" x 94"
F96	96" x 96"	96" x 96"	96" x 96"	96" x 96"

REINFORCEMENT EQUIVALENTS

NUMBER #4 BARS SPEC	EQUIVALENT NUMBER #5 BARS REQ'D
2	2
3-4	3
5-6	4
7-8	5
9-10	6
11-12	7
13-14	8
15-16	9

ALTERNATE MANUFACTURER

FLOOR JOIST AND RIM BOARD	MANUFACTURER	FLOOR JOIST	RIM MATERIAL
BOISE-CASCADE	1 1/2" BCI 5000	1/2" OSB RIM BOARD	
LOUISIANA PACIFIC	1 1/2" LPI 20 PLUS	1/2" OSB RIM BOARD	
GEORGIA PACIFIC	1 1/2" GPI 40	1/2" OSB RIM BOARD	
ROSEBURG	1 1/2" RPI 40S	1/2" RIGIDRIM	
APA PRJ JOISTS	1 1/2" PRI 40	1/2" OSB RIM BOARD	
APA PRJ JOISTS	1 1/2" PRI 40	1/2" OSB RIM BOARD	
FLOOR JOIST AND RIM BOARD	MANUFACTURER	2.0E MICRO LVL	2.0E PARA LVL
BOISE-CASCADE	2.0E VERSA LAM	2.0E VERSA LAM	
LOUISIANA PACIFIC	2.0E MICROSTART	2.0E MICROSTART	
GEORGIA PACIFIC	2.0E GFLAM LVL	2.0E GP LAM LVL	
ROSEBURG	2.0E RIGIDLAM LVL	2.0E RIGIDLAM LVL	

FOUNDATION WALL STRIP FOOTING SCHEDULE

PLAIN CONCRETE FOOTING CONVERSION TABLE			
SOIL CLASSIFICATIONS / PRESUMPTIVE BEARING CAPACITIES			
DESIGN CAPACITY (5000 psf)	CL, ML, FH & CH (5000 psf)	SM, SP, SH, SC, ST & GC (2000 psf)	GM, GP (3000 psf)
SIZE (T&H)	SIZE (T&H)	SIZE (T&H)	SIZE (T&H)
8" x 12"	8" x 12"	8" x 12"	8" x 12"
8" x 24"	8" x 12"	8" x 14"	8" x 14"
12" x 24"	8" x 24"	8" x 14"	8" x 14"
12" x 36"	8" x 24"	8" x 14"	8" x 14"
16" x 42"	12" x 30"	8" x 24"	8" x 20"

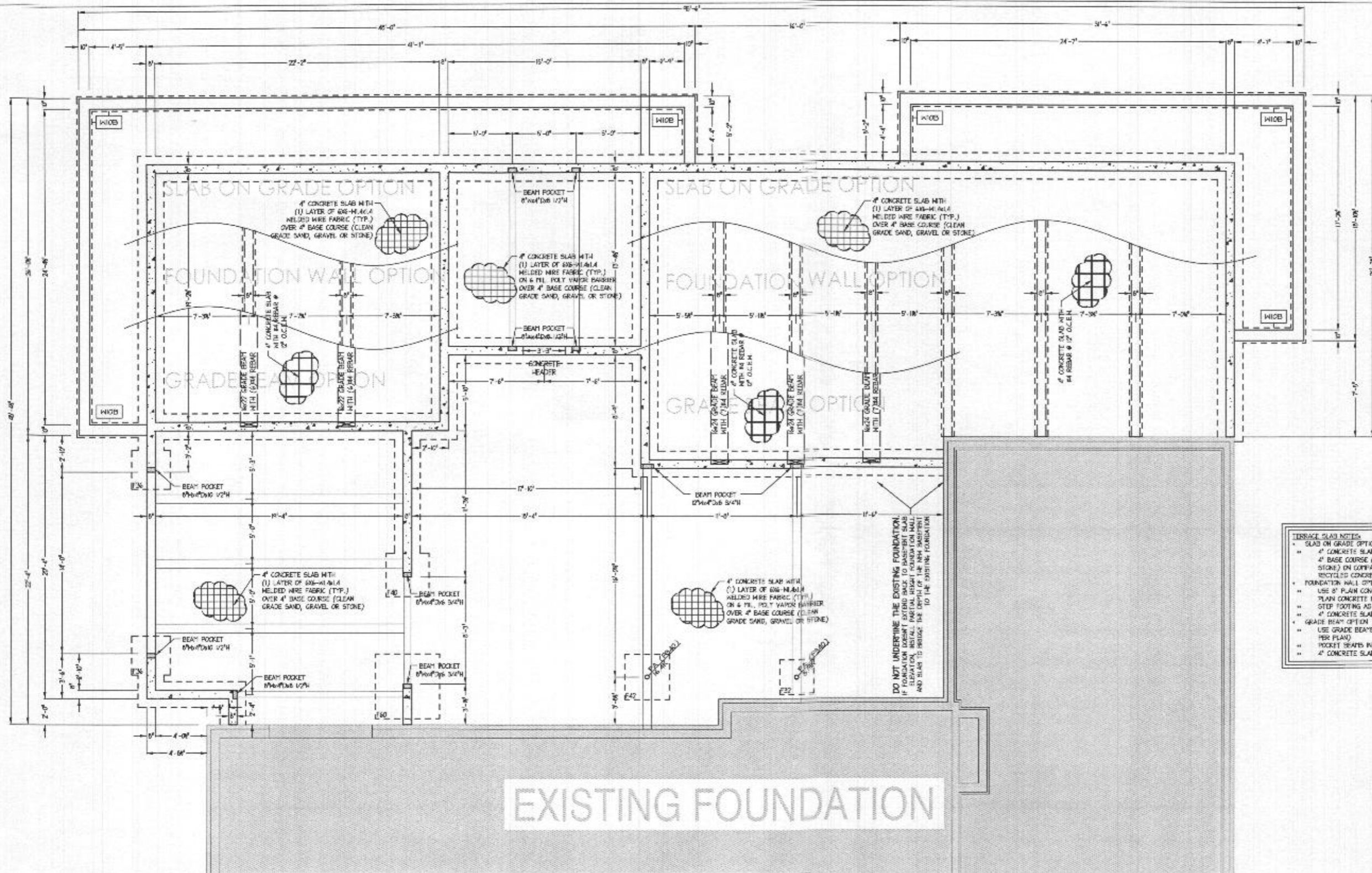
NOTES:

- CONCRETE COMPRESSIVE STRENGTH = 3,000 psi
- REBAR = GRADE 60 DEFORMED

THICKENED SLAB CONVERSION TABLE			
SOIL CLASSIFICATIONS / PRESUMPTIVE BEARING CAPACITIES			
DESIGN CAPACITY (5000 psf)	CL, ML, FH & CH (5000 psf)	SM, SP, SH, SC, ST & GC (2000 psf)	GM, GP (3000 psf)
SIZE (T&H)	SIZE (T&H)	SIZE (T&H)	SIZE (T&H)
T56	8" x 12"	8" x 12"	8" x 12"
T58	8" x 12"	8" x 12"	8" x 12"
T64	8" x 12"	8" x 12"	8" x 12"



BY APPOINTMENT
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TERRACE SLAB NOTES:

- SLAB ON GRADE OPTION
- 4" CONCRETE SLAB WITH (1) LAYER OF #6-M-46.4 4" BASE COURSE (CLEAN GRADE SAND, GRAVEL OR STONE) ON COMPACTED FILL, TAMPED STONE OR RECYCLED CONCRETE 30MM TO UNDISTURBED SOIL
- FOUNDATION WALL OPTION
- USE 8" PLAIN CONCRETE FOOTING WALL ON 2'x2' PLAN CONCRETE FOOTING (LOCATE PER PLAN)
- STEP FOOTING AS REQUIRED
- 4" CONCRETE SLAB WITH #4 REBAR @ 2' O.C.E.N.
- GRADE BEAM OPTION
- USE GRADE BEAMS (SIZE, REINFORCE AND LOCATE PER PLAN)
- POCKET SEATS IN BEARING WALLS
- 4" CONCRETE SLAB WITH #4 REBAR @ 2' O.C.E.N.

DO NOT UNDERMINE THE EXISTING FOUNDATION
 IF FOUNDATION DOES NOT EXTEND BACK TO BASEMENT SLAB ELEVATION, INSTALL FURTHER HEIGHT FOUNDATION WALL AND SLAB TO BRIDGE TO THE EXISTING FOUNDATION

EXISTING FOUNDATION

NOTE:

- ALL FOOTING SIZES ARE BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 1500 psf - SEE FOUNDATION WALL STRIP FOOTING SCHEDULE AND ISOLATED FOOTING SCHEDULE FOR ALL OTHER ALLOWABLE SOIL BEARING CAPACITIES. (SN.1)
- FOUNDATION WALL DESIGN IS BASED 60 PCF EQUIVALENT FLUID PRESSURE
- ALL BASEMENTS SHALL HAVE 8" STRUCTURALLY PLAIN CONCRETE FOUNDATION WALLS WITH (3) HORIZONTAL #4 REBAR ON 8'x24" PLAIN CONCRETE FOOTINGS. U.N.O.

FOUNDATION PLAN
 1/4" PER FOOT

NOTE:

- CONCRETE CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS IN FOUNDATION WALLS PER THE WINDOW AND DOOR MANUFACTURER.
- CONCRETE CONTRACTOR MAY USE ZIPSTRIP BY SUPERIOR PROFILES OR EQUIVALENT IN LIEU OF SAW CUT CONTROL JOINTS.
- ALL SAW CUT CONTROL JOINT LOCATIONS ARE SCHEMATIC. FINAL LAYOUT PER BUILDER/CONCRETE CONTRACTOR.

FOOTING SCHEDULE

WALL FOOTINGS	THICKNESS	SQUARE FOOTINGS
WB1	8" x 12"	124 = 24' x 12' 0"
WB2	8" x 12"	124 = 24' x 12' 0"
WB3	8" x 12"	124 = 24' x 12' 0"
WB4	8" x 12"	124 = 24' x 12' 0"
WB5	8" x 12"	124 = 24' x 12' 0"
WB6	8" x 12"	124 = 24' x 12' 0"
WB7	8" x 12"	124 = 24' x 12' 0"
WB8	8" x 12"	124 = 24' x 12' 0"
WB9	8" x 12"	124 = 24' x 12' 0"
WB10	8" x 12"	124 = 24' x 12' 0"
WB11	8" x 12"	124 = 24' x 12' 0"
WB12	8" x 12"	124 = 24' x 12' 0"
WB13	8" x 12"	124 = 24' x 12' 0"
WB14	8" x 12"	124 = 24' x 12' 0"
WB15	8" x 12"	124 = 24' x 12' 0"
WB16	8" x 12"	124 = 24' x 12' 0"
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WB20	8" x 12"	124 = 24' x 12' 0"
WB21	8" x 12"	124 = 24' x 12' 0"
WB22	8" x 12"	124 = 24' x 12' 0"
WB23	8" x 12"	124 = 24' x 12' 0"
WB24	8" x 12"	124 = 24' x 12' 0"
WB25	8" x 12"	124 = 24' x 12' 0"
WB26	8" x 12"	124 = 24' x 12' 0"
WB27	8" x 12"	124 = 24' x 12' 0"
WB28	8" x 12"	124 = 24' x 12' 0"
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WB98	8" x 12"	124 = 24' x 12' 0"
WB99	8" x 12"	124 = 24' x 12' 0"
WB100	8" x 12"	124 = 24' x 12' 0"

FOUNDATION NOTES:

1. SEE NOTES INTERIOR BEARING WALL 2x4 OR 2x6 STUDS
2. SEE UNLESS NOTED OTHERWISE
3. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN
4. FIN. TREATED 2x4 WALL PLATE SHALL BE REQUIRED TO FOUNDATION WITH 1/2" ANCHOR BOLTS @ 4'-0" PER IRC 305 TABLE 12.

PROFESSIONAL CERTIFICATION
 I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland. License Number #31466 Expiration Date: 2/14/2021.

PROPOSED RESIDENCE

SWIDERSKY RESIDENCE
 12569 Clover Hill Drive
 West Friendship, Maryland
 21794

ARCHITECT
 Jonathan Rivera AIA, NCARS
 Glenwood, Maryland

443.226.5745
 jrvera@jonathandrivera.com

BUILDER
 Name
 address location
 phone number
 email

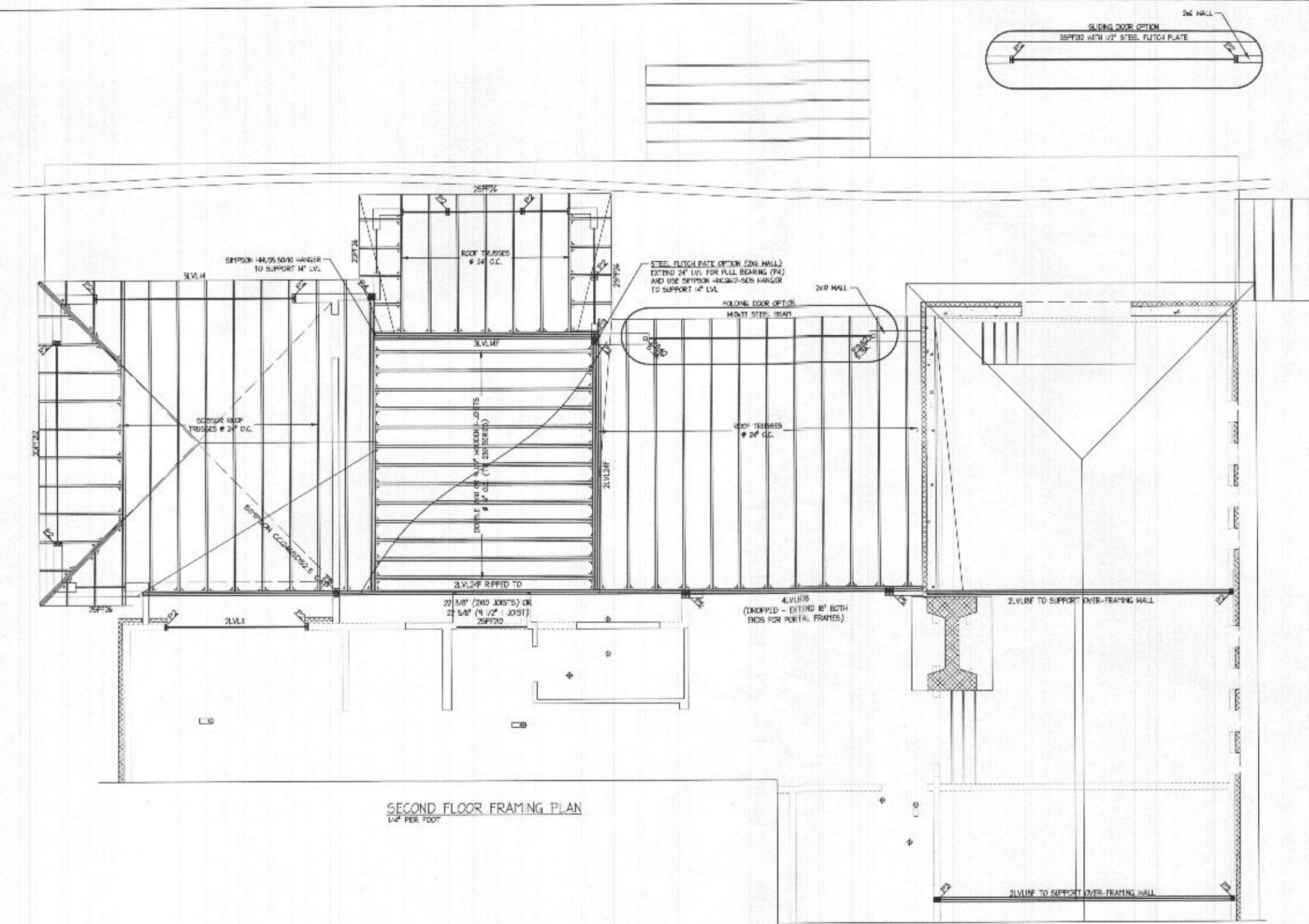
STRUCTURAL ENGINEER
 Mid-Atlantic Structural Engineering
 Morrisville, New Jersey
 (717) 504-8407
 rwyatt@midatl-se.com

ISSUE DATE
 10/25/20
 10/25/20

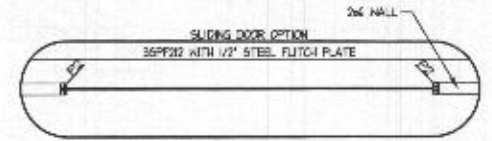
SCALE:
FOUNDATION
SF.1

PRINT DATE:
 Friday, October 2, 2020

- (1) JOIST 1'-4"
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SECOND FLOOR FRAMING PLAN
1/4" PER FOOT

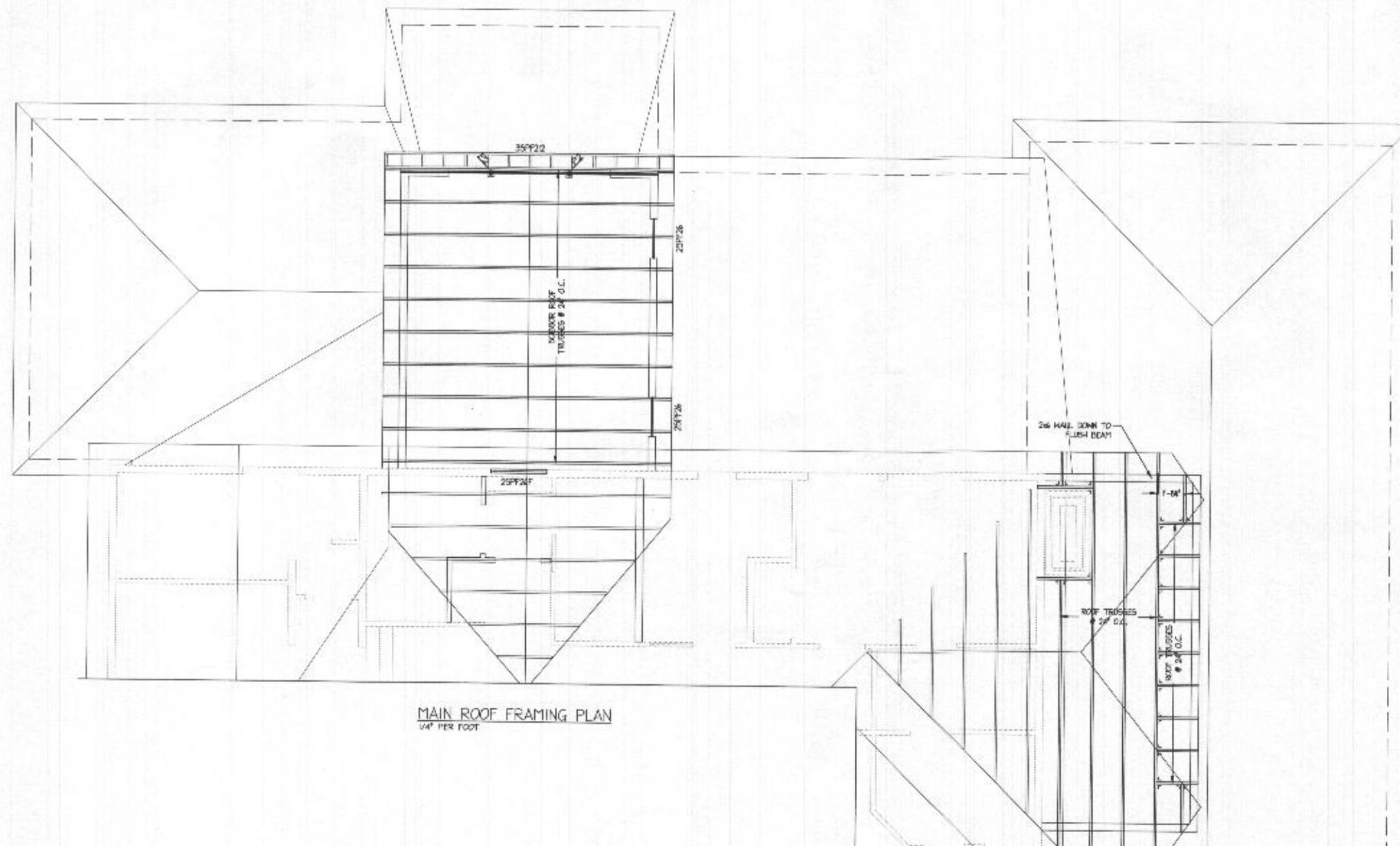


STEEL FLITCH PLATE NOTE:
 * USE 1/2" BOLTS @ 24" O.C. (STAGGERED)
 * HEIGHT OF PLATE IS 1 1/4"
 * PLACE STEEL BETWEEN PILES OF 2x12
 * ADD 1/2" USE SPACER TO BRING TOTAL THICKNESS TO 5 1/2"

BEAM & POST SCHEDULE

BEAM MARKS ARE PRECEDED BY # OF PILES - 1, 2, 3 OR 4 AND END WITH F, FLUSH CONDITION INDICATOR, IF APPLICABLE. EXAMPLE: 2x12#2F INDICATES A 3-PLY, 2x12, 2x6, FLUSH, SOLID OAK LUMBER.

MARK	SIZE	LUMBER	MARK	SIZE	LUMBER
SPF26	2x6	SPF26	LVL5	3x6	1.5E LVL
SPF28	2x6	SPF28	LVL6	3x6	1.5E LVL
SPF30	2x6	SPF30	LVL7	3x6	1.5E LVL
SPF32	2x6	SPF32	LVL8	3x6	1.5E LVL
SPF34	2x6	SPF34	LVL9	3x6	1.5E LVL
SPF36	2x6	SPF36	LVL10	3x6	1.5E LVL
SPF38	2x6	SPF38	LVL11	3x6	1.5E LVL
SPF40	2x6	SPF40	LVL12	3x6	1.5E LVL
SPF42	2x6	SPF42	LVL13	3x6	1.5E LVL
SPF44	2x6	SPF44	LVL14	3x6	1.5E LVL
SPF46	2x6	SPF46	LVL15	3x6	1.5E LVL
SPF48	2x6	SPF48	LVL16	3x6	1.5E LVL
SPF50	2x6	SPF50	LVL17	3x6	1.5E LVL
SPF52	2x6	SPF52	LVL18	3x6	1.5E LVL
SPF54	2x6	SPF54	LVL19	3x6	1.5E LVL
SPF56	2x6	SPF56	LVL20	3x6	1.5E LVL
SPF58	2x6	SPF58	LVL21	3x6	1.5E LVL
SPF60	2x6	SPF60	LVL22	3x6	1.5E LVL
SPF62	2x6	SPF62	LVL23	3x6	1.5E LVL
SPF64	2x6	SPF64	LVL24	3x6	1.5E LVL
SPF66	2x6	SPF66	LVL25	3x6	1.5E LVL
SPF68	2x6	SPF68	LVL26	3x6	1.5E LVL
SPF70	2x6	SPF70	LVL27	3x6	1.5E LVL
SPF72	2x6	SPF72	LVL28	3x6	1.5E LVL
SPF74	2x6	SPF74	LVL29	3x6	1.5E LVL
SPF76	2x6	SPF76	LVL30	3x6	1.5E LVL
SPF78	2x6	SPF78	LVL31	3x6	1.5E LVL
SPF80	2x6	SPF80	LVL32	3x6	1.5E LVL
SPF82	2x6	SPF82	LVL33	3x6	1.5E LVL
SPF84	2x6	SPF84	LVL34	3x6	1.5E LVL
SPF86	2x6	SPF86	LVL35	3x6	1.5E LVL
SPF88	2x6	SPF88	LVL36	3x6	1.5E LVL
SPF90	2x6	SPF90	LVL37	3x6	1.5E LVL
SPF92	2x6	SPF92	LVL38	3x6	1.5E LVL
SPF94	2x6	SPF94	LVL39	3x6	1.5E LVL
SPF96	2x6	SPF96	LVL40	3x6	1.5E LVL
SPF98	2x6	SPF98	LVL41	3x6	1.5E LVL
SPF100	2x6	SPF100	LVL42	3x6	1.5E LVL
SPF102	2x6	SPF102	LVL43	3x6	1.5E LVL
SPF104	2x6	SPF104	LVL44	3x6	1.5E LVL
SPF106	2x6	SPF106	LVL45	3x6	1.5E LVL
SPF108	2x6	SPF108	LVL46	3x6	1.5E LVL
SPF110	2x6	SPF110	LVL47	3x6	1.5E LVL
SPF112	2x6	SPF112	LVL48	3x6	1.5E LVL
SPF114	2x6	SPF114	LVL49	3x6	1.5E LVL
SPF116	2x6	SPF116	LVL50	3x6	1.5E LVL
SPF118	2x6	SPF118	LVL51	3x6	1.5E LVL
SPF120	2x6	SPF120	LVL52	3x6	1.5E LVL
SPF122	2x6	SPF122	LVL53	3x6	1.5E LVL
SPF124	2x6	SPF124	LVL54	3x6	1.5E LVL
SPF126	2x6	SPF126	LVL55	3x6	1.5E LVL
SPF128	2x6	SPF128	LVL56	3x6	1.5E LVL
SPF130	2x6	SPF130	LVL57	3x6	1.5E LVL
SPF132	2x6	SPF132	LVL58	3x6	1.5E LVL
SPF134	2x6	SPF134	LVL59	3x6	1.5E LVL
SPF136	2x6	SPF136	LVL60	3x6	1.5E LVL
SPF138	2x6	SPF138	LVL61	3x6	1.5E LVL
SPF140	2x6	SPF140	LVL62	3x6	1.5E LVL
SPF142	2x6	SPF142	LVL63	3x6	1.5E LVL
SPF144	2x6	SPF144	LVL64	3x6	1.5E LVL
SPF146	2x6	SPF146	LVL65	3x6	1.5E LVL
SPF148	2x6	SPF148	LVL66	3x6	1.5E LVL
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SPF152	2x6	SPF152	LVL68	3x6	1.5E LVL
SPF154	2x6	SPF154	LVL69	3x6	1.5E LVL
SPF156	2x6	SPF156	LVL70	3x6	1.5E LVL
SPF158	2x6	SPF158	LVL71	3x6	1.5E LVL
SPF160	2x6	SPF160	LVL72	3x6	1.5E LVL
SPF162	2x6	SPF162	LVL73	3x6	1.5E LVL
SPF164	2x6	SPF164	LVL74	3x6	1.5E LVL
SPF166	2x6	SPF166	LVL75	3x6	1.5E LVL
SPF168	2x6	SPF168	LVL76	3x6	1.5E LVL
SPF170	2x6	SPF170	LVL77	3x6	1.5E LVL
SPF172	2x6	SPF172	LVL78	3x6	1.5E LVL
SPF174	2x6	SPF174	LVL79	3x6	1.5E LVL
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SPF178	2x6	SPF178	LVL81	3x6	1.5E LVL
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SPF182	2x6	SPF182	LVL83	3x6	1.5E LVL
SPF184	2x6	SPF184	LVL84	3x6	1.5E LVL
SPF186	2x6	SPF186	LVL85	3x6	1.5E LVL
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SPF190	2x6	SPF190	LVL87	3x6	1.5E LVL
SPF192	2x6	SPF192	LVL88	3x6	1.5E LVL
SPF194	2x6	SPF194	LVL89	3x6	1.5E LVL
SPF196	2x6	SPF196	LVL90	3x6	1.5E LVL
SPF198	2x6	SPF198	LVL91	3x6	1.5E LVL
SPF200	2x6	SPF200	LVL92	3x6	1.5E LVL
SPF202	2x6	SPF202	LVL93	3x6	1.5E LVL
SPF204	2x6	SPF204	LVL94	3x6	1.5E LVL
SPF206	2x6	SPF206	LVL95	3x6	1.5E LVL
SPF208	2x6	SPF208	LVL96	3x6	1.5E LVL
SPF210	2x6	SPF210	LVL97	3x6	1.5E LVL
SPF212	2x6	SPF212	LVL98	3x6	1.5E LVL
SPF214	2x6	SPF214	LVL99	3x6	1.5E LVL
SPF216	2x6	SPF216	LVL100	3x6	1.5E LVL
SPF218	2x6	SPF218	LVL101	3x6	1.5E LVL
SPF220	2x6	SPF220	LVL102	3x6	1.5E LVL
SPF222	2x6	SPF222	LVL103	3x6	1.5E LVL
SPF224	2x6	SPF224	LVL104	3x6	1.5E LVL
SPF226	2x6	SPF226	LVL105	3x6	1.5E LVL
SPF228	2x6	SPF228	LVL106	3x6	1.5E LVL
SPF230	2x6	SPF230	LVL107	3x6	1.5E LVL
SPF232	2x6	SPF232	LVL108	3x6	1.5E LVL
SPF234	2x6	SPF234	LVL109	3x6	1.5E LVL
SPF236	2x6	SPF236	LVL110	3x6	1.5E LVL
SPF238	2x6	SPF238	LVL111	3x6	1.5E LVL
SPF240	2x6	SPF240	LVL112	3x6	1.5E LVL
SPF242	2x6	SPF242	LVL113	3x6	1.5E LVL
SPF244	2x6	SPF244	LVL114	3x6	1.5E LVL
SPF246	2x6	SPF246	LVL115	3x6	1.5E LVL
SPF248	2x6	SPF248	LVL116	3x6	1.5E LVL
SPF250	2x6	SPF250	LVL117	3x6	1.5E LVL
SPF252	2x6	SPF252	LVL118	3x6	1.5E LVL
SPF254	2x6	SPF254	LVL119	3x6	1.5E LVL
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SPF282	2x6	SPF282	LVL133	3x6	1.5E LVL
SPF284	2x6	SPF284	LVL134	3x6	1.5E LVL
SPF286	2x6	SPF286	LVL135	3x6	1.5E LVL
SPF288	2x6	SPF288	LVL136	3x6	1.5E LVL
SPF290	2x6	SPF290	LVL137	3x6	1.5E LVL
SPF292	2x6	SPF292	LVL138	3x6	1.5E LVL
SPF294	2x6	SPF294	LVL139	3x6	1.5E LVL
SPF296	2x6	SPF296	LVL140	3x6	1.5E LVL
SPF298	2x6	SPF298	LVL141	3x6	1.5E LVL
SPF300	2x6	SPF300	LVL142	3x6	1.5E LVL
SPF302	2x6	SPF302	LVL143	3x6	1.5E LVL
SPF304	2x6	SPF304	LVL144	3x6	1.5E LVL
SPF306	2x6	SPF306	LVL145	3x6	1.5E LVL
SPF308	2x6	SPF308	LVL146	3x6	1.5E LVL
SPF310	2x6	SPF310	LVL147	3x6	1.5E LVL
SPF312	2x6	SPF312	LVL148	3x6	1.5E LVL
SPF314	2x6	SPF314	LVL149	3x6	1.5E LVL
SPF316	2x6	SPF316	LVL150	3x6	1.5E LVL
SPF318	2x6	SPF318	LVL151	3x6	1.5E LVL
SPF320	2x6	SPF320	LVL152	3x6	1.5E LVL
SPF322	2x6	SPF322	LVL153	3x6	1.5E LVL
SPF324	2x6	SPF324	LVL154	3x6	1.5E LVL
SPF326	2x6	SPF326	LVL155	3x6	1.5E LVL



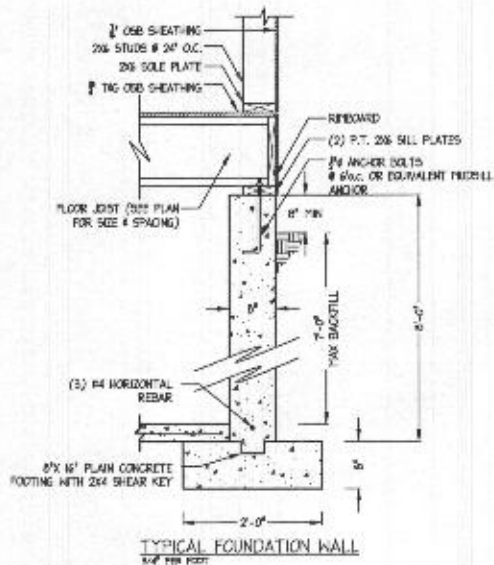
MAIN ROOF FRAMING PLAN
1/4" PER FOOT

BEAM & POST SCHEDULE

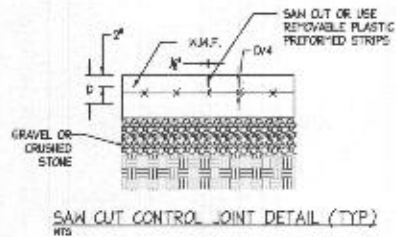
BEAM MARKS ARE PRECEDED BY # OF PLYS - 1, 2, 3 OR 4 AND END WITH "I", *LUSH CONDITION INDICATOR, IF APPLICABLE. EXAMPLE: 2SPP20* INDICATES A 3-PLY, SPP20, 2x6, FLUSH, SOLID SAWN LUMBER.

MARK	SIZE	MATERIAL	MARK	SIZE	MATERIAL
SPP24	2x8	SPP22	LVL5	10x16	LVL5
SPP28	2x8	SPP22	LVL7	12x16	LVL7
SPP20	2x10	SPP22	LVL9	14x16	LVL9
SPP22	2x12	SPP22	LVL12	18x16	LVL12
SPP24	2x8	SPP22	LVL16	24x16	LVL16
SPP28	2x8	SPP22	LVL18	27x16	LVL18
SPP20	2x10	SPP22	LVL24	36x16	LVL24
SPP22	2x12	SPP22	LVL30	45x16	LVL30
			LVL36	54x16	LVL36
			LVL48	72x16	LVL48
			LVL60	90x16	LVL60
			LVL72	108x16	LVL72
			LVL84	126x16	LVL84
			LVL96	144x16	LVL96
			LVL108	162x16	LVL108
			LVL120	180x16	LVL120
			LVL132	198x16	LVL132
			LVL144	216x16	LVL144
			LVL156	234x16	LVL156
			LVL168	252x16	LVL168
			LVL180	270x16	LVL180
			LVL192	288x16	LVL192
			LVL204	306x16	LVL204
			LVL216	324x16	LVL216
			LVL228	342x16	LVL228
			LVL240	360x16	LVL240
			LVL252	378x16	LVL252
			LVL264	396x16	LVL264
			LVL276	414x16	LVL276
			LVL288	432x16	LVL288
			LVL300	450x16	LVL300
			LVL312	468x16	LVL312
			LVL324	486x16	LVL324
			LVL336	504x16	LVL336
			LVL348	522x16	LVL348
			LVL360	540x16	LVL360
			LVL372	558x16	LVL372
			LVL384	576x16	LVL384
			LVL396	594x16	LVL396
			LVL408	612x16	LVL408
			LVL420	630x16	LVL420
			LVL432	648x16	LVL432
			LVL444	666x16	LVL444
			LVL456	684x16	LVL456
			LVL468	702x16	LVL468
			LVL480	720x16	LVL480
			LVL492	738x16	LVL492
			LVL504	756x16	LVL504
			LVL516	774x16	LVL516
			LVL528	792x16	LVL528
			LVL540	810x16	LVL540
			LVL552	828x16	LVL552
			LVL564	846x16	LVL564
			LVL576	864x16	LVL576
			LVL588	882x16	LVL588
			LVL600	900x16	LVL600
			LVL612	918x16	LVL612
			LVL624	936x16	LVL624
			LVL636	954x16	LVL636
			LVL648	972x16	LVL648
			LVL660	990x16	LVL660
			LVL672	1008x16	LVL672
			LVL684	1026x16	LVL684
			LVL696	1044x16	LVL696
			LVL708	1062x16	LVL708
			LVL720	1080x16	LVL720
			LVL732	1098x16	LVL732
			LVL744	1116x16	LVL744
			LVL756	1134x16	LVL756
			LVL768	1152x16	LVL768
			LVL780	1170x16	LVL780
			LVL792	1188x16	LVL792
			LVL804	1206x16	LVL804
			LVL816	1224x16	LVL816
			LVL828	1242x16	LVL828
			LVL840	1260x16	LVL840
			LVL852	1278x16	LVL852
			LVL864	1296x16	LVL864
			LVL876	1314x16	LVL876
			LVL888	1332x16	LVL888
			LVL900	1350x16	LVL900
			LVL912	1368x16	LVL912
			LVL924	1386x16	LVL924
			LVL936	1404x16	LVL936
			LVL948	1422x16	LVL948
			LVL960	1440x16	LVL960
			LVL972	1458x16	LVL972
			LVL984	1476x16	LVL984
			LVL996	1494x16	LVL996
			LVL1008	1512x16	LVL1008
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			LVL1032	1548x16	LVL1032
			LVL1044	1566x16	LVL1044
			LVL1056	1584x16	LVL1056
			LVL1068	1602x16	LVL1068
			LVL1080	1620x16	LVL1080
			LVL1092	1638x16	LVL1092
			LVL1104	1656x16	LVL1104
			LVL1116	1674x16	LVL1116
			LVL1128	1692x16	LVL1128
			LVL1140	1710x16	LVL1140
			LVL1152	1728x16	LVL1152
			LVL1164	1746x16	LVL1164
			LVL1176	1764x16	LVL1176
			LVL1188	1782x16	LVL1188
			LVL1200	1800x16	LVL1200
			LVL1212	1818x16	LVL1212
			LVL1224	1836x16	LVL1224
			LVL1236	1854x16	LVL1236
			LVL1248	1872x16	LVL1248
			LVL1260	1890x16	LVL1260
			LVL1272	1908x16	LVL1272
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			LVL1296	1944x16	LVL1296
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			LVL1332	1998x16	LVL1332
			LVL1344	2016x16	LVL1344
			LVL1356	2034x16	LVL1356
			LVL1368	2052x16	LVL1368
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			LVL1476	2214x16	LVL1476
			LVL1488	2232x16	LVL1488
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			LVL1596	2394x16	LVL1596
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			LVL1632	2448x16	LVL1632
			LVL1644	2466x16	LVL1644
			LVL1656	2484x16	LVL1656
			LVL1668	2502x16	LVL1668
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			LVL1692	2538x16	LVL1692
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			LVL1740	2610x16	LVL1740
			LVL1752	2628x16	LVL1752
			LVL1764	2646x16	LVL1764
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			LVL2136	3204x16	LVL2136
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			LVL2196	3294x16	LVL2196
			LVL2208	3312x16	LVL2208
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			LVL2232	3348x16	LVL2232
			LVL2244	3366x16	LVL2244
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			LVL2292	3438x16	LVL2292
			LVL2304	3456x16	LVL2304
			LVL2316	3474x16	LVL2316
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			LVL2340	3510x16	LVL2340
			LVL2352	3528x16	LVL2352
			LVL2364	3546x16	LVL2364
			LVL2376	3564x16	LVL2376
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			LVL2436	3654x16	LVL2436
			LVL2448	3672x16	LVL2448
			LVL2460	3690x16	LVL2460
			LVL2472	3708x16	LVL2472
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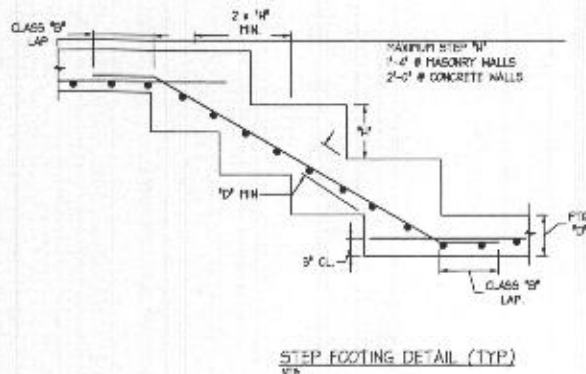
FOUNDATION DESIGN
BASED ON ACI 332



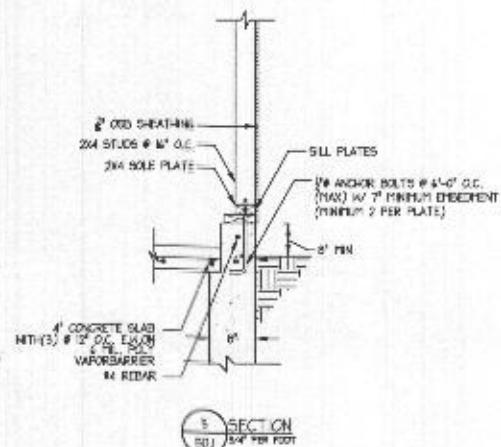
TYPICAL FOUNDATION WALL
3/4" PER FOOT



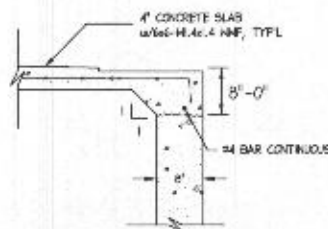
SAW CUT CONTROL JOINT DETAIL (TYP.)
1/8"



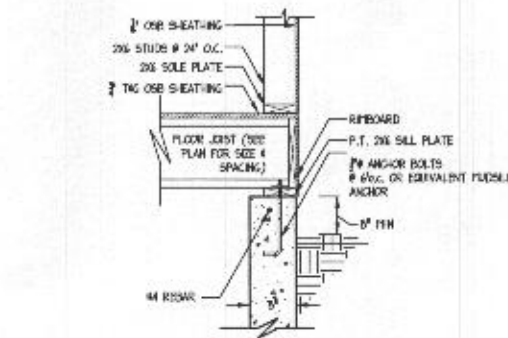
STEP FOOTING DETAIL (TYP.)
1/8"



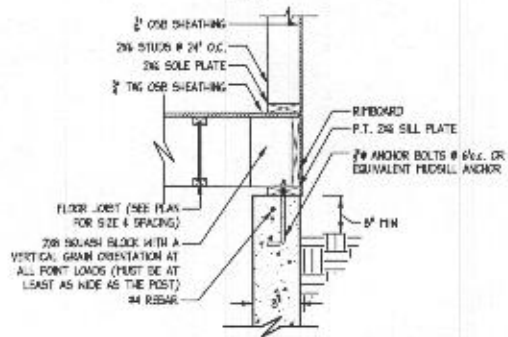
SECTION SD.1
3/4" PER FOOT



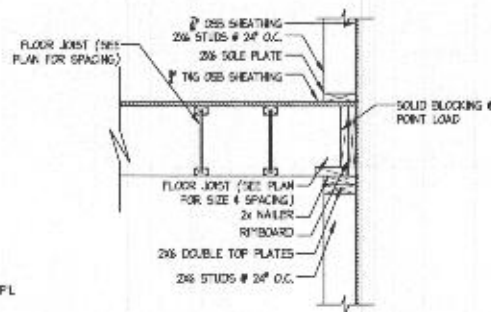
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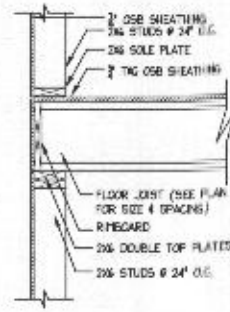
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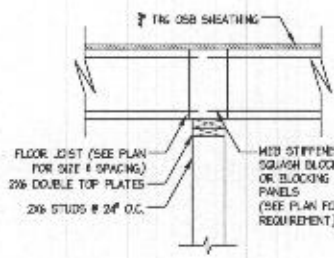
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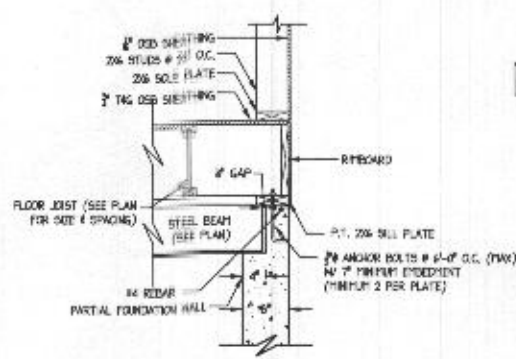
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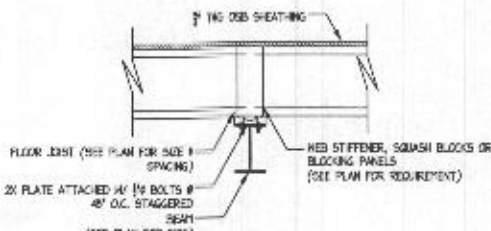
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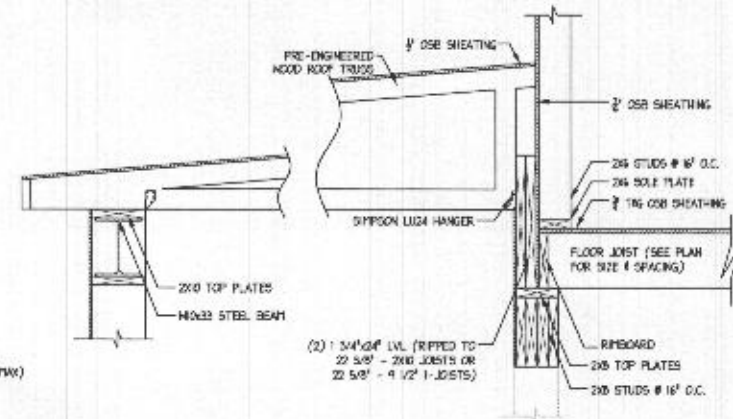
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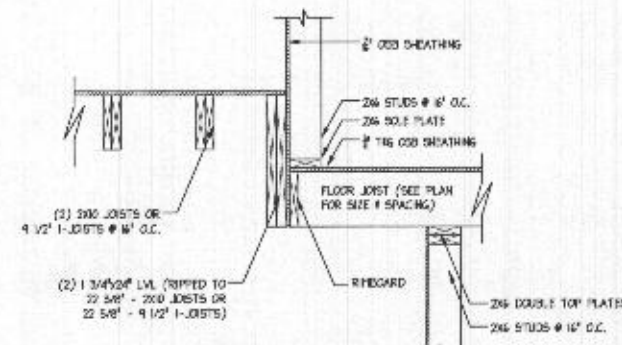
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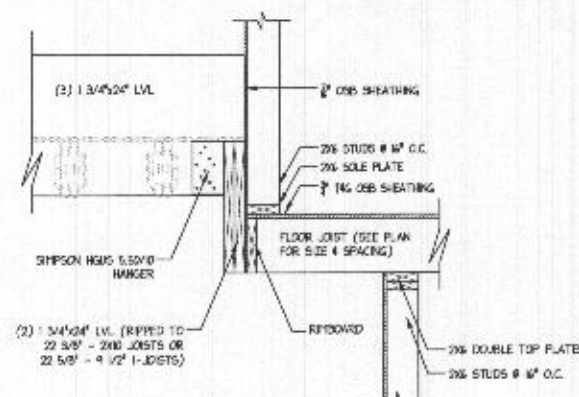
SECTION SD.1
3/4" PER FOOT



SECTION SD.1
3/4" PER FOOT



SECTION SD.1
3/4" PER FOOT



SECTION SD.1
3/4" PER FOOT



PROPOSED RESIDENCE

SWIDERSKY RESIDENCE
 12528 Clover Hill Drive
 West Friendship, Maryland
 21794

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 Jonathan Rivera AIA, NCARB
 Glenwood, Maryland
 443 226 5745
 jrivera@jonathanrivera.com

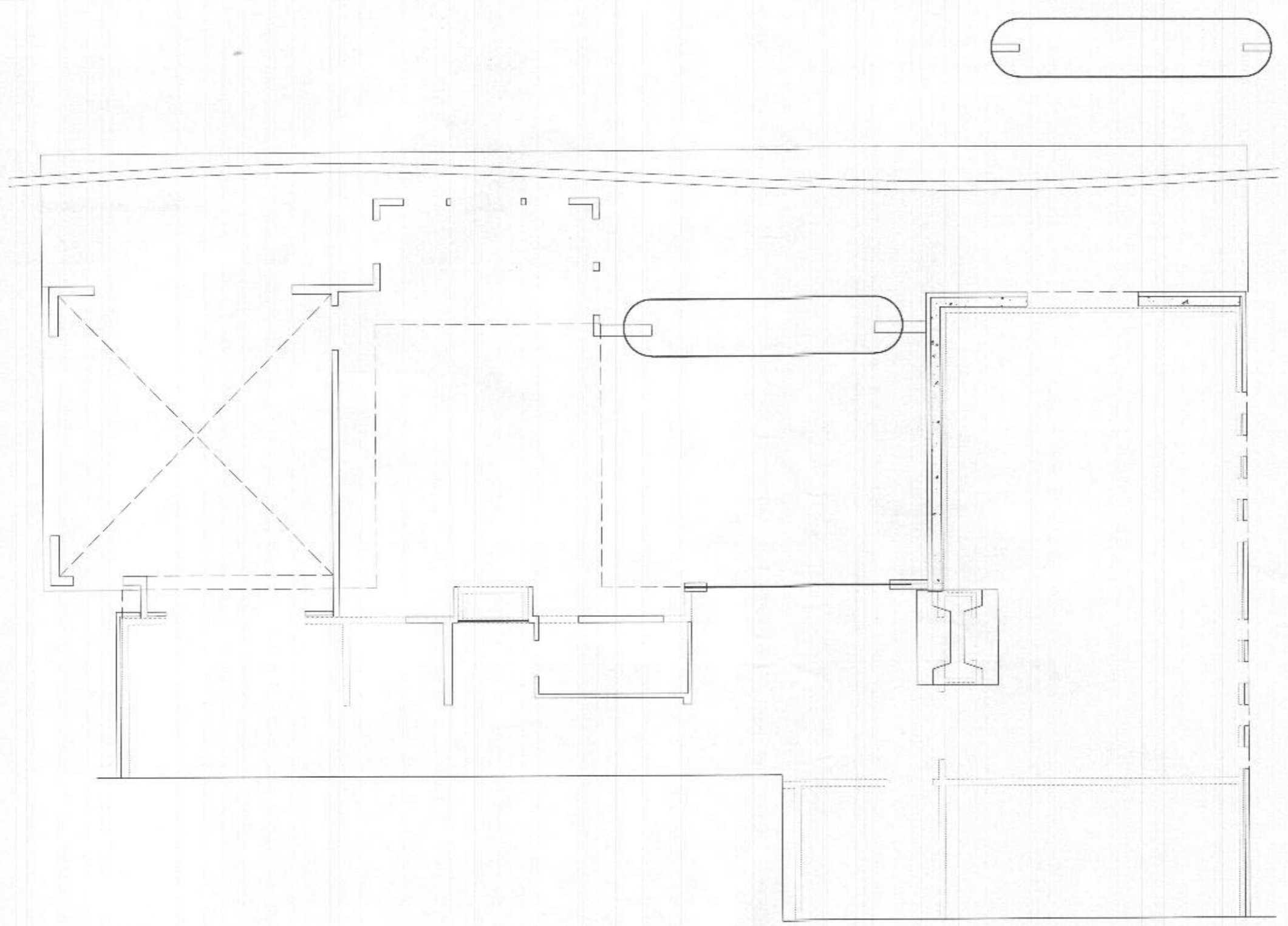
BUILDER
 Name:
 address location:
 phone number:
 email:

STRUCTURAL ENGINEER
 Mid-Atlantic Structural Engineering
 Monroeville, New Jersey
 (717) 504-8407
 rwyatt@matt1se.com

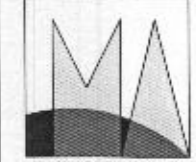
ISSUE DATE
 1-23-22 110 517

SCALE:
 DETAILS
SD.1

PRINT DATE:
 Friday, October 2, 2020



ARCHITECT, L.L.C.
JONATHAN RIVERA
 ARCHITECT
 (443) 226-5745
 JONATHANRIVERA.COM



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MID-ATLANTIC
 STRUCTURAL ENGINEERING
 1855 WILLOW GROVE ROAD
 MONROEVILLE, NJ 08853
 (717) 504-8407
 www.midatl-se.com

PROFESSIONAL CERTIFICATION
 I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland.
 License Number #31466
 Expiration Date: 2/14/2021

PROPOSED RESIDENCE

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 West Friendship, Maryland
 21794

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 jrivera@jonathannrivera.com

BUILDER
 Name:
 address: location
 phone number:
 email:

STRUCTURAL ENGINEER
 Mid-Atlantic Structural Engineering
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 (717) 504-8407
 twyatt@midatlse.com

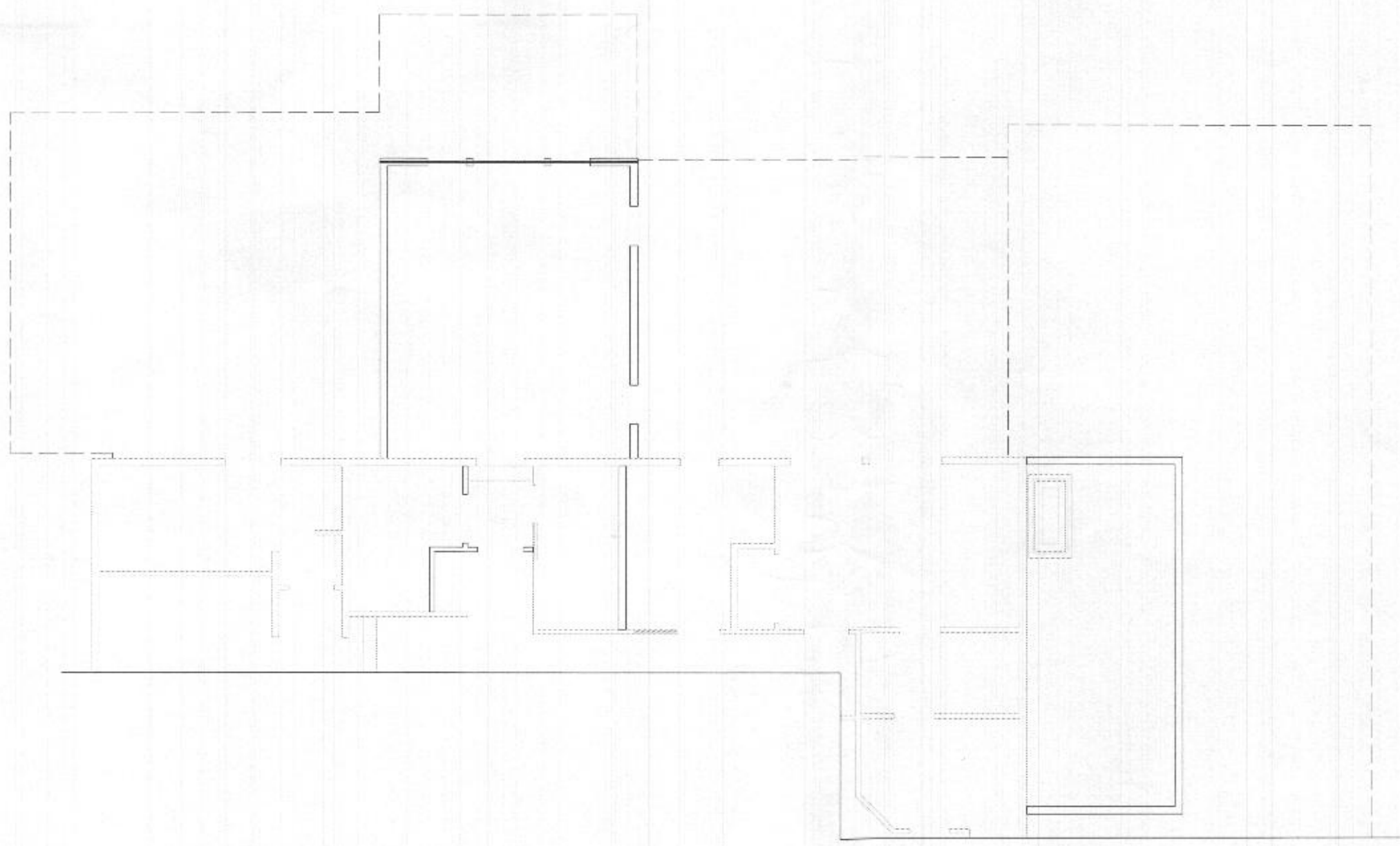
ISSUE DATE

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2		
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4		
5		
6		

SCALE:
 WALL BRACING

WB.1

PRINT DATE:
 Friday, October 2, 2020



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PROFESSIONAL CERTIFICATION
 I certify that these documents
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 by me, and that I am a duly
 licensed professional
 engineer under the laws of the
 State of Maryland.
 License Number #31466
 Expiration Date: 2/14/2021.

**PROPOSED
RESIDENCE**

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RESIDENCE**
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 phone number _____
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 Morrisville, New Jersey
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 mwytch@midatl-se.com

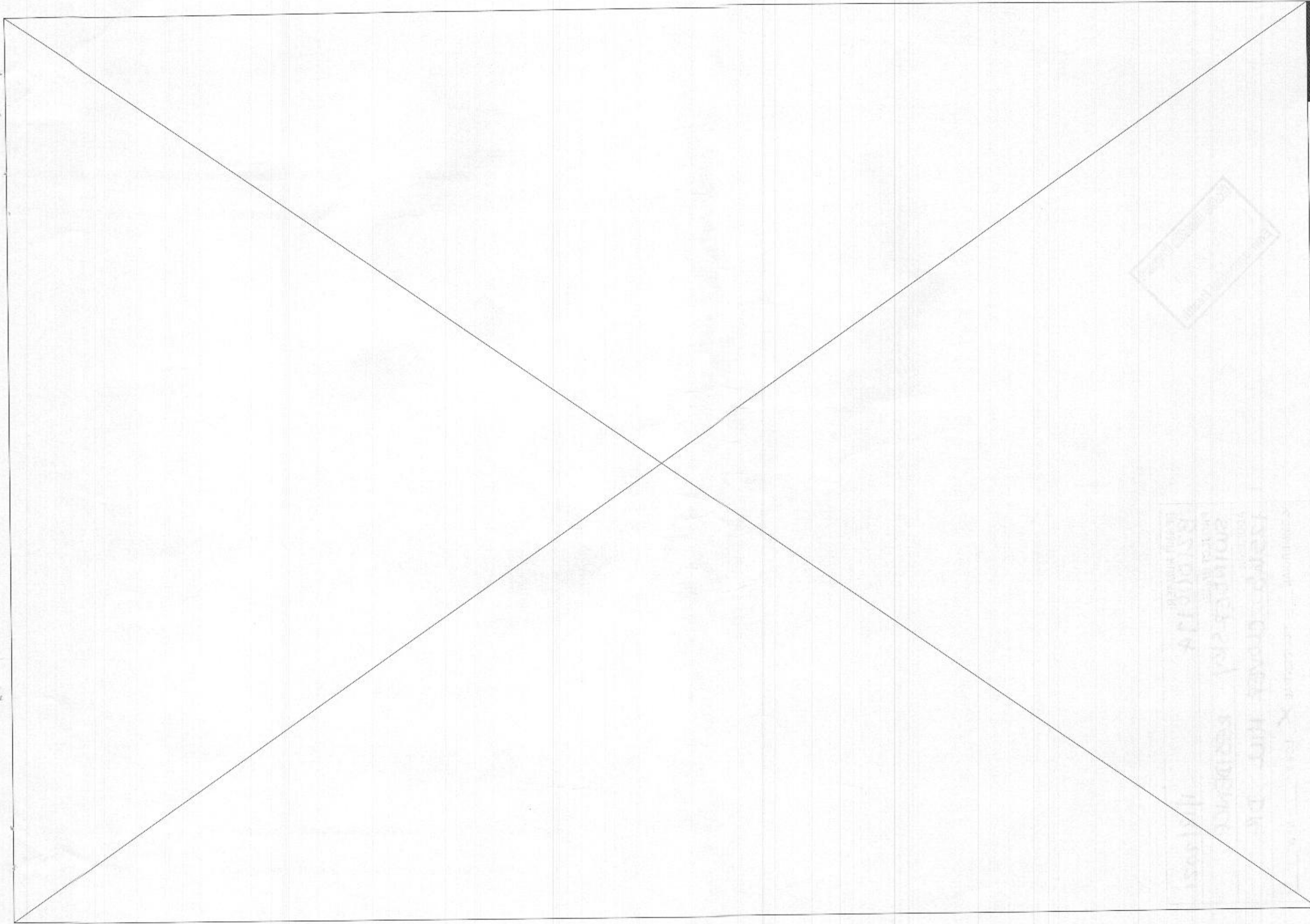
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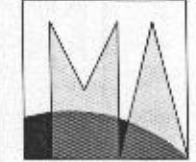
SCALE:
WALL BRACING

WB.2

PRINT DATE
 Friday, October 2, 2020



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Principal Architect
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PROFESSIONAL CERTIFICATION
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**PROPOSED
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BUILDER
 Name _____
 address location _____
 phone number _____
 email _____

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 Monroeville, New Jersey

(717) 504-8407
 rwyah@midatl-se.com

ISSUE DATE

▲	9-29-20	817.511
▲		
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SCALE:
 WALL BRACING

WB.3

PRINT DATE:
 Friday, October 2, 2020