CODES AND SPECIFICATIONS:

1. THE STRUCTURAL PLANS, TO THE BEST OF OUR KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE "2020 BUILDING CODE OF NEW YORK STATE".

2. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE ABOVE NAMED CODES AND ALL APPLICABLE FEDERAL & STATE CODES, REFERENCE STANDARDS, AND LAWS.

3. DESIGN LOADS: COMPLY WITH THE AMERICAN SOCIETY OF CIVIL ENGINEER'S "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE 7-10).

4. STRUCTURAL STEEL: COMPLY WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (AISC 360-16) ALLOWABLE STRESS DESIGN.

5. WOOD: COMPLY WITH THE AMERICAN FOREST AND PAPER ASSOCIATION'S "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS-18), "SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC" (SDPWS-08).

GENERAL NOTES:

1. THESE DRAWINGS DO NOT DEFINE THE SCOPE OF CONTRACT. SEE CONTRACT DOCUMENTS.

2. THE STRUCTURAL DRAWINGS SHALL BE WORKED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS, M/E/P DRAWINGS, AND SPECIFICATIONS. IF A DISCREPANCY IS FOUND, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING WORK.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD, PRIOR TO STARTING WORK, AND NOTIFY THE DESIGN PROFESSIONALS OF ANY DISCREPANCIES. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.

4. ANY ADDITIONAL WORK / FRAMING NOT SPECIFICALLY SHOWN OR CALLED FOR IN THE DRAWINGS/SPECIFICATIONS REQUIRED TO COMPLETE THE INTENT OF THE WORK SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AS IF INCLUDED IN THE DRAWINGS / SPECIFICATIONS. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF SUCH OCCURRENCES.

5. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATER/DAMPROOFING AND FIREPROOFING DETAILS AND REQUIREMENTS.

6. AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S OR ENGINEER'S PRESENCE OR REVIEW OF WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION.

7. SHORING, BRACING AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HIS/HER LICENSED PROFESSIONAL ENGINEER. CONTRACTOR SHALL PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STREETS, BUILDINGS AND STRUCTURES.

8. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING AND BRACING REQUIRED FOR PLUMBNESS, STABILITY AND SAFETY WHENEVER REQUIRED TO SUPPORT LOADS IMPOSED UPON THE STRUCTURE DURING CONSTRUCTION.

9. ALL LOCATIONS OF EXISTING STRUCTURES AND DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY FIELD MEASUREMENTS AND COORDINATED WITH ARCH/M/E/P DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.

10. DRAWINGS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF, DURING DEMOLITION, EXCAVATION OR CONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON DRAWINGS, ENGINEER SHALL BE NOTIFIED.

REINFORCED CONCRETE NOTES:

1. MINIMUM COMPRESSIVE STRENGTH OF ALL CONCRETE AT 28 DAYS SHALL BE f'c = 4,000 PSI UNLESS OTHERWISE NOTED.

2. ALL CONCRETE SHALL BE NORMAL WEIGHT STONE CONCRETE, UNLESS OTHERWISE NOTED ON THE DRAWINGS. THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4". THE CONCRETE IS TO BE PROPORTIONED TO HAVE 4" +/-1" SLUMP AND 5% +/- ENTRAINED AIR. THE CEMENT SHALL CONFORM ASTM C150 AGGREGATE SHALL CONFORM TO ASTM C33, AND AIR ENTRAINMENT SHALL CONFORM TO ASTM C260. LOW RANGE WATER REDUCING AGENTS ARE PERMITTED. CHLORIDE ION CONTAINING ADDITIVES ARE NOT PERMITTED.

3. ALL REINFORCING STEEL SHALL CONFORM TO ASTM STANDARD SPECIFICATION FOR DEFORMED STEEL BARS FOR CONCRETE REINFORCEMENT, A615 GRADE 60, U.N.O. REINFORCEMENT SHALL BE DETAILED ACCORDING TO ACI MANUAL OF STANDARD PRACTICE, ACI 315, LATEST EDITION. WELDABLE REBAR SHALL CONFORM TO ASTM A706, GRADE 60.

4. THE CONCRETE MIX SHALL BE DESIGNED, INSPECTED AND TESTED BY AN INDEPENDENT LABORATORY LICENSED BY THE NEW YORK CITY BUILDING DEPARTMENT.

5. ALL REBAR SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. ADDITIONAL BARS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT IF NECESSARY.

6. ALL WELDED PLAIN WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 WITH A MINIMUM TENSILE STRENGTH OF 75,000 PSI AND MINIMUM YIELD STRENGTH OF 65,000 PSI (W1.2 & OVER).

7. DOWEL BAR SUBSTITUTIONS SHALL BE PERMITTED PROVIDED THAT THE MANUFACTURER'S DATA SUPPORTS FULL TENSION SPLICES.

8. ALL PIPE SLEEVES, SLOTS, BOX-OUTS, ETC. SHALL BE INSTALLED IN THE FORMS BY THE SUB-CONTRACTOR REQUIRING THE OPENING, BEFORE THE CONCRETE IS PLACED. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER DRAWINGS FOR THE SIZE, LOCATION, AND QUANTITY OF ALL OPENINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY DISCREPANCIES BETWEEN DRAWINGS AND RECEIVE CLARIFICATION PRIOR TO CONCRETE PLACEMENT.

9. CONTRACTOR SHALL SUBMIT CONCRETE REINFORCING SHOP DRAWINGS CLEARLY IDENTIFYING REBAR SIZE, SPACING, LOCATION, CONCRETE COVER, SPLICE LENGTHS, EMBEDMENT DEPTHS, JOINT DETAILING, ETC. FOR REVIEW BY ENGINEER OF RECORD.

10. GENERAL CONTRACTOR SHALL SUBMIT CONCRETE PENETRATION DRAWINGS COORDINATING EACH TRADE IN ONE SET OF DOCUMENTS. OPENINGS NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INSTALLED ONLY AFTER APPROVAL BY THE STRUCTURAL ENGINEER IS OBTAINED.

11. ALL CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL FOLLOW ALL PROVISIONS SPECIFIED IN ACI 318 SECTION 6.3.

12. LOCATIONS OF ALL CONSTRUCTION JOINTS NOT SPECIFICALLY SHOWN IN THE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO THE PREPARATION OF REBAR SHOP DRAWINGS. THE ENGINEER MAY REQUIRE ADDITIONAL REINFORCING AT PROPOSED CONSTRUCTION JOINTS.

13. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS AND CLEARLY SHOWN ON ALL REBAR SHOP DRAWINGS:
    -CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"
    -EXPOSED TO EARTH OR WEATHER (WHERE FORMS ARE USED)
    #6 BARS AND LARGER ..... 2"
    #5 BARS AND SMALLER ..... 1 1/2"
    -NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
    SLABS OR WALLS ..... 3/4"
    BEAMS, PIERS, COLUMNS ..... 1 1/2"

14. PROVIDE #4 DIAGONAL BARS, 4'-0" LONG AT ALL RE-ENTRANT CORNERS:
    2-#4 TOP BARS FOR ALL SLABS ON GRADE.
    2-#4 DIAGONAL BARS EACH FACE OF WALL OPENING CORNERS

15. REINFORCING BARS AND WELDED WIRE FABRIC SHALL NOT BE WELDED, TACK-WELDED OR USED FOR STRIKING AN ARC.

16. PROVIDE A MINIMUM NUMBER OF COMPRESSIVE STRENGTH TEST CYLINDERS IN COMPLIANCE WITH NEW YORK CITY BUILDING CODE (NYCBC) SECTION 1905.6.2. CYLINDER SAMPLES SHALL BE TAKEN, CURED, AND TESTED IN ACCORDANCE WITH NYCBC 1905.6.3. COMPRESSIVE STRENGTH REPORTS FOR CYLINDER BREAKS SHALL INDICATE TIME, DATE, WEATHER CONDITIONS AND LOCATION OF CONCRETE POUR.

17. COLD-WEATHER CONCRETING PROCEDURES AND SPECIFICATIONS PER ACI 306R-16 AND ACI 306.1-90 SHALL BE FOLLOWED WHEN REQUIRED BY CODE.

18. HOT-WEATHER CONCRETING PROCEDURES AND SPECIFICATIONS PER ACI 305R-10 AND ACI 305.1-14 SHALL BE FOLLOWED WHEN REQUIRED BY CODE.

ALL GROUT SHALL BE NON-SHRINK WITH A 28-DAY MIN. COMPRESSIVE STRENGTH OF 8,000 PS

STRUCTURAL STEEL NOTES:

1. ALL STRUCTURAL STEEL ROLLED SHAPES, SHALL CONFORM TO ASTM A992, Fy = 50 KSI U.O.N.

2. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 55 (UON).

3. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS' "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" (ASTM F3125 GRADE A325 OR GRADE A490). USE ONLY GRADE A325 BOLTS IN GALVANIZED APPLICATIONS.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PRECISE FIELD MEASUREMENTS REQUIRED FOR PROPER STEEL DETAILING, FABRICATION AND INSTALLATION OF WORK. SHOP DRAWINGS SHALL BE SUBMITTED BASED ON FIELD MEASUREMENTS. DO NOT PROCEED WITH ANY FABRICATION UNTIL THE SHOP DRAWINGS ARE REVIEWED AND APPROVED.

5. PROVIDE ANY MEASURES REQUIRED FOR STABILITY OF STRUCTURE DURING ERECTION: THE CONTRACTOR SHALL, AT NO ADDITIONAL COST, ADEQUATELY GUY AND BRACE ALL STRUCTURAL STEEL TO MAINTAIN SAFETY AND ALIGNMENT DURING ALL PHASES OF CONSTRUCTION. SUCH GUYING AND BRACING SHALL REMAIN IN PLACE UNTIL THE STRUCTURE HAS REACHED ADEQUATE STRENGTH AND ALL PERMANENT BRACING IS IN PLACE. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STABILITY AND SAFETY OF THE WORK DURING CONSTRUCTION.

6. FIELD CUTTING OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WHERE ACCEPTED BY THE ENGINEER IN REVIEW OF DRAWINGS SUBMITTED BY THE CONTRACTOR. CUTTING OR ENLARGEMENT OF BOLT HOLES WITH TORCHES IS STRICTLY PROHIBITED.

7. BOLTED CONNECTIONS:
    -ALL BOLTED CONNECTIONS SHALL HAVE SNUG-TIGHTENED, BEARING TYPE JOINTS WITH ASTM F3125 GRADE A325 OR A490 BOLTS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
    -BOLTED CONNECTIONS SUBJECT TO VIBRATION AND/OR LOAD REVERSAL, OR THOSE UTILIZING OVERSIZED HOLES SHALL HAVE SLIP-CRITICAL TYPE JOINTS, CLASS A WITH ASTM F3125 GRADE F1852 OR GRADE F2280 "TWIST-OFF" BOLTS.

ENGINEERED LUMBER NOTES:

1. LAMINATED VENEER LUMBER (LVL), PARALLEL STRAND LUMBER (PSL), AND LAMINATED STRAND LUMBER (LSL) SHALL BE MANUFACTURED IN COMPLIANCE WITH THE NATIONAL EVALUATION SERVICE (NES) REPORT NO. NER-481, OR ICBO EVALUATION SERVICE REPORT NO. ER-4979.

2. LAMINATED VENEER LUMBER (LVL) SHALL BE EITHER "MICROLLAM" AS MANUFACTURED BY TRUSS JOIST WEYERHAEUSER, "G-P LAM" AS MANUFACTURED BY THE GEORGIA PACIFIC CORPORATION, OR "GANG-LAM" AS MANUFACTURED BY THE LOUISIANA PACIFIC CORPORATION.

3. MINIMUM ALLOWABLE STRESS AND STIFFNESS CHARACTERISTICS SHALL BE AS FOLLOWS:

2.0E MICROLLAM LVL BEAM	F_b = 2600 PSI F_{cll} = 2510 PSI $F_{c\perp}$ = 750 PSI F_v = 285 PSI E = 2,000,000 PSI	1.3E STRANDGUARD TIMBERSTRAND LSL SILL PLATE	F_b = 1900 PSI F_{cll} = 1835 PSI $F_{c\perp}$ = 670 PSI F_v = 150 PSI E = 1,300,000 PSI

WOOD NOTES:

1. LUMBER SHALL BE IN COMPLIANCE WITH THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY'S "VOLUNTARY PRODUCT STANDARD, PS 20-15, AMERICAN SOFTWOOD LUMBER STANDARD". PROVIDE LUMBER COMPLYING WITH GRADING RULES AND MARKINGS OF SECTIONS 6 & 7 OF PS 20-15.

2. WOOD STRUCTURAL PANELS SHALL BE IN COMPLIANCE WITH THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY'S "VOLUNTARY PRODUCT STANDARD, PS 1-09, STRUCTURAL PLYWOOD".

3. PROVIDE SEASONED DIMENSION LUMBER WITH 19% MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING AND COMPLYING WITH PS 20-15.

4. THE STRUCTURAL WOOD STRESS GRADE STAMPED LUMBER SHALL BE AS FOLLOWS:
    JOISTS / RAFTERS: DOUGLAS FIR-LARCH OR DOUGLAS FIR-LARCH (NORTH), NO. 2. F_b MIN. = 850 PSI, E = 1,600,000 PSI
    STUDS: DOUGLAS FIR-LARCH OR DOUGLAS FIR-LARCH (NORTH), STUD GRADE. F_{cll} MIN. = 850 PSI, E = 1,400,000 PSI

5. STRUCTURAL WOOD FRAMING USED IN EXTERIOR APPLICATIONS OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE SOUTHERN YELLOW PINE NO. 2 OR BETTER, CCA PRESERVATIVE PRESSURE TREATED WOOD. ALL EXTERIOR STAIR FRAMING TO BE CONSTRUCTED USING PRESSURE AND FIRE RETARDANT TREATED WOOD RECOMMENDED BY THE MANUFACTURERS: Aljoma Lumber, Inc. <http://www.aljoma.com>, B. B. & S. of New England, Inc. <http://www.bbslumber.com>, Coast Wood Preserving, Inc., Culpeper Wood Preservers <http://www.culpeperwood.com>

6. SHEATHING NOMINAL THICKNESS TO BE AS FOLLOWS:
    5/8" THICK AT EXTERIOR WALLS AND ROOFS
    3/4" THICK TONGUE AND GROOVE AT FLOORS
    INSTALL PANELS WITH FACE GRAIN PERPENDICULAR TO SUPPORTING MEMBERS.

7. WOOD STRUCTURAL PANELS SHALL NOT BE LESS THAN 4'x8' EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING WHERE MINIMUM PANEL DIMENSIONS SHALL BE 24" UNLESS ALL EDGES OF THE UNDERSIZED PANELS ARE SUPPORTED BY AND FASTENED TO FRAMING MEMBERS OR BLOCKING.

8. SEVERELY DISTORTED (TWISTED, BOWED, CUPPED, CHECKED, ETC.) LUMBER SHALL NOT BE USED.

9. KEEP MATERIALS DRY AT ALL TIMES; PROTECT AGAINST EXPOSURE TO WEATHER AND CONTACT WITH DAMP OR WET SURFACES. STACK LUMBER AND PROVIDE AIR CIRCULATION WITHIN STACKS.

10. SET ALL CARPENTRY WORK ACCURATELY TO REQUIRED LEVELS AND LINES WITH MEMBERS PLUMB AND TRUE, AND ACCURATELY CUT AND FITTED. ROOFS SHALL BE INSTALLED AT THE PITCHES INDICATED ON THE ARCHITECTURAL DRAWINGS.

11. WOOD COLUMNS AND POSTS SHALL BE FRAMED TO PROVIDE FULL END BEARING. STUDS SHALL HAVE FULL BEARING ON A NOMINAL 2" THICK OR LARGER PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS.

12. JOISTS AND RAFTERS SHALL BE INSTALLED DIRECTLY OVER BEARING WALL STUDS UNLESS OTHERWISE DETAILED.

13. JOISTS OR RAFTERS ARE TO BE INSTALLED WITH "CROWN" UP (I.E. POSITIVE CAMBER) AND WITHIN 1/2 INCH OF STRAIGHT, END-TO-END ALIGNMENT.

14. ALL JOISTS SHALL BE LATERALLY SUPPORTED AT EACH SUPPORT BY FULL DEPTH SOLID BLOCKING 2 INCHES IN THICKNESS, EXCEPT WHERE JOISTS ARE SUPPORTED BY A FLUSH HEADER OR NAILED TO A RIM JOIST.

15. WHERE WALL FRAMING MEMBERS ARE NOT CONTINUOUS FROM FOUNDATION SILL TO ROOF, THE MEMBERS SHALL BE SECURED TO ENSURE A CONTINUOUS LOAD PATH. WHERE REQUIRED, SHEET METAL CLAMPS TIES OR CLIPS SHALL BE FORMED OF GALVANIZED STEEL
OR
    OTHER APPROVED CORROSION-RESISTANT MATERIAL NOT LESS THAN 0.040 INCH NOMINAL THICKNESS.

16. HEADERS, DOUBLE JOISTS, TRUSSES, OR OTHER APPROVED ASSEMBLIES THAT ARE OF ADEQUATE SIZE TO TRANSFER LOADS TO THE VERTICAL MEMBERS SHALL BE PROVIDED OVER ALL WINDOW AND DOOR OPENINGS IN LOAD-BEARING WALLS AND PARTITIONS.

17. PROVIDE A MINIMUM OF THREE STUDS AT EACH END OF ALL FLUSH FRAMED HEADERS OR BEAM, UNLESS OTHERWISE INDICATED ON PLAN. PROVIDE ONE JACK STUD AND ONE FULL KING STUD AT EACH END OF ALL DROPPED HEADERS OR BEAMS, UNLESS MORE JACK AND KING STUDS ARE INDICATED ON PLAN.

18. FLUSH FRAMED CONNECTIONS SHALL BE MADE WITH PREFABRICATED GALVANIZED STEEL HANGERS MADE BY SIMPSON STRONG-TIE, CO., INC. OR KANT-SAG CONNECTORS BY UNITED STEEL PRODUCTS CO. OF WIDTH AND DEPTH APPROPRIATE FOR THE SUPPORTED MEMBER. INSTALL WITH THE TYPE AND QUANTITY OF FASTENERS RECOMMENDED BY THE MANUFACTURER.

19. BUILT-UP BEAM CONNECTIONS, U.O.N.:
    - (2) PLIES CONNECTED FROM ONE SIDE WITH (2) ROWS OF SIMPSON SDS SCREWS AT 16" O.C.
    - (3) OR MORE PLIES CONNECTED FROM BOTH SIDES WITH (2) ROWS EACH SIDE OF SIMPSON SDS SCREWS AT 12" O.C. STAGGER FASTENERS ON THE SECOND SIDE SO THEY FALL HALFWAY BETWEEN FASTENERS ON THE FIRST SIDE.
    ALL CONNECTIONS REQUIRE 2" CLEARANCE AT TOP AND BOTTOM EDGES OF MEMBER.
PROVIDE 3½" LONG SCREWS FOR 2 OR 3-PLY MEMBERS, AND 6" LONG SCREWS FOR 4-PLY MEMBERS.

20. EACH ROOF RAFTER OR TRUSS SHALL BE CONNECTED TO THE WALL DOUBLE TOP PLATE WITH AN H8 CONNECTOR BY SIMPSON STRONG-TIE. RIM/BAND JOISTS SHALL BE CONNECTED TO TOP PLATE WITH SIMPSON ST2215 STRAP TIE @ 64" O.C.. INSTALL SILL PLATE TIE-DOWNS TO SATISFY MINIMUM REQUIRED 5/8" Ø BOLTS SPACED @ 48" O.C. AND 10" MAXIMUM FROM EACH CORNER. INSTALL ADDITIONAL STRAPS AS SHOWN ON TYPICAL FRAMING DETAILS.

21. THE NUMBER, TYPE AND SIZE OF FASTENERS FOR FRAMING AND SHEATHING ATTACHMENT SHALL BE IN ACCORDANCE WITH TABLE 2304.9.1 OF THE NYCBC 2014 UNLESS A STRONGER CONNECTION IS INDICATED.

22. USE COMMON WIRE NAILS, EXCEPT AS OTHERWISE INDICATED. SELECT FASTENERS OF SIZE THAT WILL NOT PENETRATE MEMBERS WHERE THE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR WILL RECEIVE FINISH MATERIALS. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING OF WOOD; PRE-DRILL AS REQUIRED.

23. COUNTERSINK NAIL HEADS ON ALL EXPOSED CARPENTRY WORK AND FILL HOLES.

24. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM THE EDGE OF ALL STRUCTURAL PANELS AND DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.

25. WOOD STRUCTURAL PANEL ROOF SHEATHING SHALL BE BONDED BY EXTERIOR GLUE.

26. ALL EXTERIOR WALLS OF THE BUILDING ARE DESIGNED AS BEARING AND SHEAR WALLS TO PROVIDE STABILITY AND RESTRAINT FOR LATERAL LOADS. NAILING REQUIREMENTS FOR PLYWOOD SHEATHING ARE: 6" O.C. ALL EDGES, INCLUDING DOORS AND WINDOWS WITH BLOCKING AT ALL JOINTS. FIELD NAILING 12" O.C., U.O.N.

27. ALL FRAMING MEMBERS AND BLOCKING USED FOR SHEAR WALL CONSTRUCTION SHALL BE 2" NOMINAL OR GREATER. WHERE SHEAR WALLS ARE DESIGNED AS BLOCKED, ALL JOINTS IN SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON FRAMING MEMBERS OR COMMON BLOCKING.

28. POSTS AT SHEAR WALL ENDS ARE TO BE ANCHORED TO THE FOUNDATION AND BETWEEN EACH FRAMING LEVEL TO RESIST UPLIFT FORCES. PROVIDE SIMPSON HD6A HOLDDOWN ANCHORS OR APPROVED EQUAL.

29. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PLUMBING PIPING, HVAC DUCTING AND RECESSED LIGHTING FIXTURES, ETC. PRIOR TO LAYOUT TO MINIMIZE INTERFERENCE THAT MAY REQUIRE ALTERING OR STRENGTHENING OF THE INSTALLED FRAMING.

30. NOTCHES IN THE TOP OR BOTTOM OF DIMENSIONED LUMBER JOISTS OR RAFTERS SHALL NOT EXCEED ONE-SIXTH THE MEMBER DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. END NOTCHES SHALL NOT EXCEED ONE-FOURTH THE MEMBER DEPTH. BORED HOLES SHALL NOT BE WITHIN TWO INCHES OF THE TOP AND BOTTOM OF THE MEMBER AND THEIR DIAMETER SHALL NOT EXCEED ONE-THIRD THE MEMBER DEPTH.

ENGINEERED LUMBER NOTES:

1. LAMINATED VENEER LUMBER (LVL), PARALLEL STRAND LUMBER (PSL), AND LAMINATED STRAND LUMBER (LSL) SHALL BE MANUFACTURED IN COMPLIANCE WITH THE NATIONAL EVALUATION SERVICE (NES) REPORT NO. NER-481, OR ICBO EVALUATION SERVICE REPORT NO. ER-4979.

2. LAMINATED VENEER LUMBER (LVL) SHALL BE EITHER "MICROLLAM" AS MANUFACTURED BY TRUSS JOIST WEYERHAEUSER, "G-P LAM" AS MANUFACTURED BY THE GEORGIA PACIFIC CORPORATION, OR "GANG-LAM" AS MANUFACTURED BY THE LOUISIANA PACIFIC CORPORATION.

3. PARALLEL STRAND LUMBER (PSL) SHALL BE "PARALLAM" AS MANUFACTURED BY TRUS JOIST WEYERHAEUSER.

4. FOUNDATION SILL PLATES SHALL BE 1.3E STRANDGUARD "TIMBERSTRAND LSL" AS MANUFACTURED BY TRUS JOIST WEYERHAEUSER. STRANDGUARD MUST NOT COME IN CONTACT WITH THE GROUND. (NOTE THAT CARBON STEEL CONNECTORS MAY BE USED WITH THIS PRODUCT.)

5. MINIMUM ALLOWABLE STRESS AND STIFFNESS CHARACTERISTICS SHALL BE AS FOLLOWS:

2.0E MICROLLAM LVL BEAM	F_b = 2600 PSI F_{cll} = 2510 PSI $F_{c\perp}$ = 750 PSI F_v = 285 PSI E = 2,000,000 PSI	1.3E STRANDGUARD TIMBERSTRAND LSL SILL PLATE	F_b = 1900 PSI F_{cll} = 1835 PSI $F_{c\perp}$ = 670 PSI F_v = 150 PSI E = 1,300,000 PSI
1.8E PARALLAM PSL COLUMN	F_b = 2400 PSI F_{cll} = 2500 PSI $F_{c\perp}$ = 545 PSI F_v = 190 PSI E = 1,800,000 PSI		

6. TJI/PRO JOISTS SHALL BE MANUFACTURED BY TRUS JOIST WEYERHAEUSER OR APPROVED MANUFACTURER WITH DESIGN PROPERTIES EQUAL TO OR BETTER THAN WEYERHAEUSER.
    Web-site www.weyerhaeuser.com/woodproducts (tel 888-453-8358)

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2123 45TH ROAD, LONG ISLAND CITY, NY 11101
24 CANFIELD DRIVE STAMFORD, CT 06902
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PROJECT:

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NO.	DATE	ISSUE/REVISION	BY
1	08/11/21	85% REVIEW	JB
2	09/10/21	FOR BIDDING ONLY	JB

DRAWING TITLE:

GENERAL NOTES AND MATERIAL SPECIFICATIONS

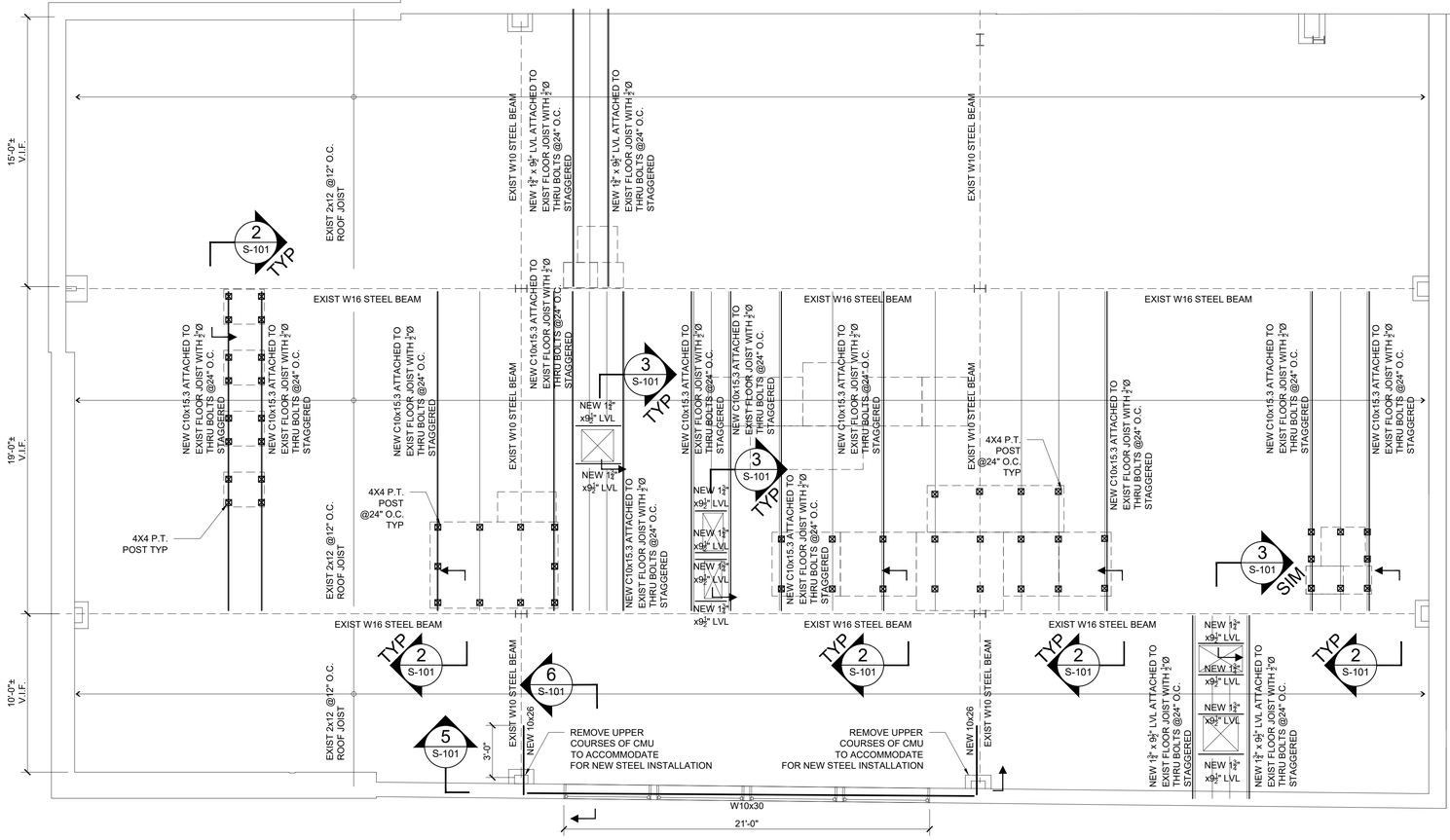
SEAL AND SIGNATURE

STATE OF NEW YORK
JOSEPH BADINTER
081675
LICENSED PROFESSIONAL ENGINEER

DATE: 08/11/21
PROJECT No: BGM 21-118
DRAWING BY: IK
CHK BY: AK
DWG No:
S-100.00

BGM 21-118 | 1 of 3

DOB JOB #



1 S-101 MECHANICAL RTU SUPPORT FRAMING PLAN

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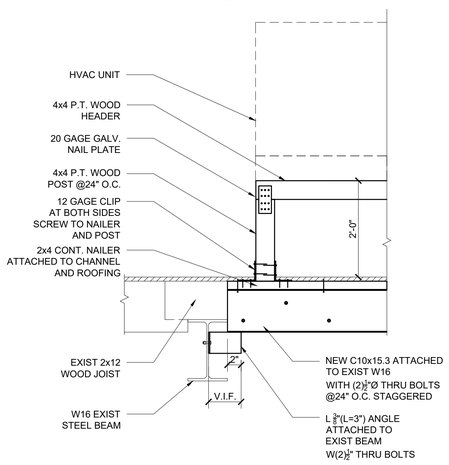

2 S-101 TYPICAL SECTION

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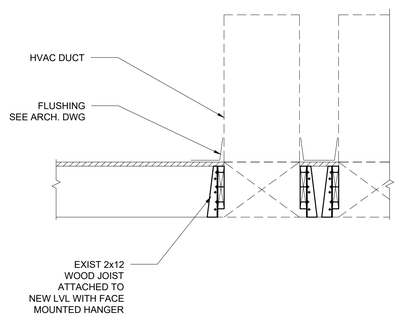

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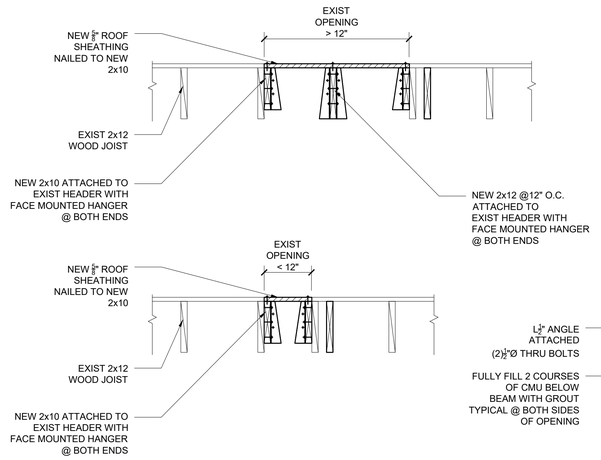

4 S-101 CLOSURE FOR EXIST ROOF PENETRATION TYPICAL DETAIL

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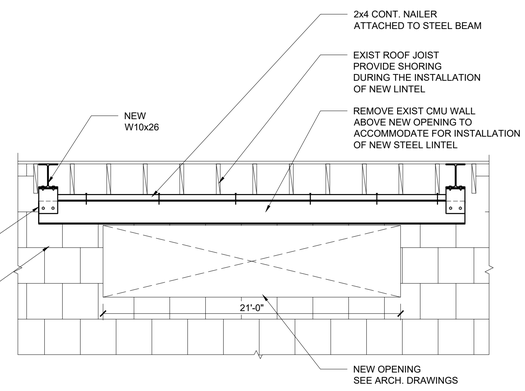

5 S-101 NEW OPENING ELEVATION

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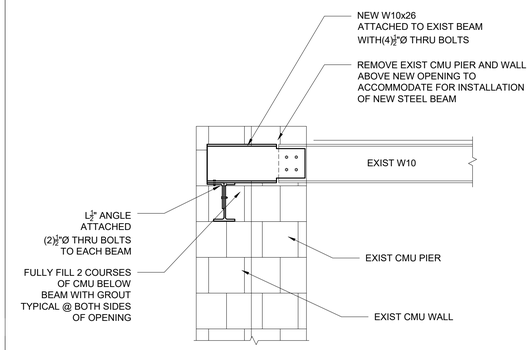

6 S-101 TYPICAL SECTION

SCALE: N.T.S.

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OLD OAKS CC 3100 PURCHASE STREET PURCHASE, NY 10577

NO.	DATE	ISSUE/REVISION	BY
1	08/11/21	85% REVIEW	JB
2	09/10/21	FOR BIDDING ONLY	JB

DRAWING TITLE:

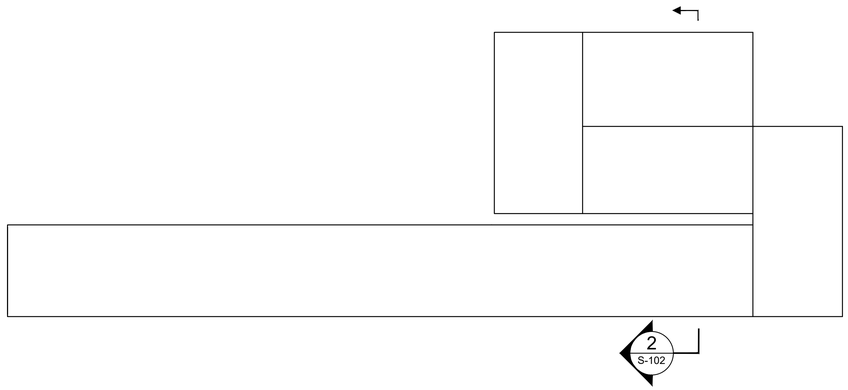
MECHANICAL RTU SUPPORT FRAMING PLAN, TYPICAL SECTIONS AND DETAILS

SEAL AND SIGNATURE

STATE OF NEW YORK
JOSEPH BADINELLI
081675
LICENSED PROFESSIONAL ENGINEER

DATE: 08/11/21
PROJECT No: BGM 21-118
DRAWING BY: IK
CHK BY: AK
DWG No:
S-101.00
BGM 21-118
2 of 3

DOB JOB #

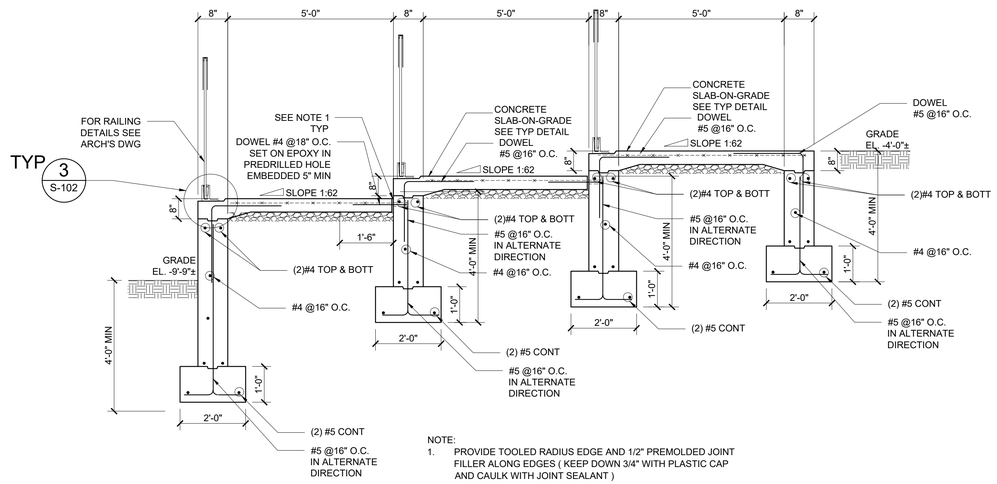


NOTES:

1. ALL DIMENSIONS AND ELEVATIONS TO BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
2. SEE TYPICAL CONCRETE SLAB ON GRADE INSTALLATION DETAIL FOR ADDITIONAL INFORMATION.
3. SEE ARCHITECTURAL DRAWINGS FOR RAILING INFORMATION

1 S-102 CONCRETE RAMP

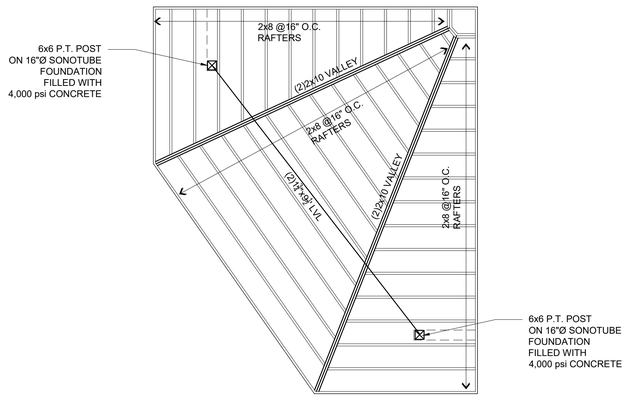
SCALE: 3/4"=1'-0"



NOTE:
1. PROVIDE TOOLED RADIUS EDGE AND 1/2" PREMOLDED JOINT FILLER ALONG EDGES (KEEP DOWN 3/4" WITH PLASTIC CAP AND CAULK WITH JOINT SEALANT)

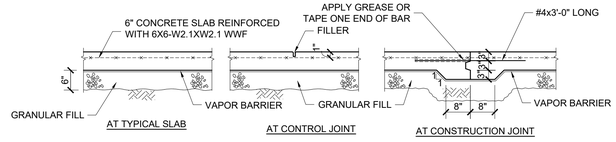
2 S-102 TYPICAL SECTION

SCALE: N.T.S.



4 S-102 BAR ROOF FRAMING PLAN

SCALE: N.T.S.



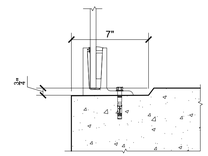
NOTE: SAWED CONTROL JOINTS ARE TO BE LOCATED IN A RECTANGULAR PATTERN.

NOTES:

1. SLAB ON GRADE SHALL BE PLACED IN A CHECKER BOARD PATTERN WHERE EACH SINGLE POUR AREA DOES NOT EXCEED 900 SQUARE FEET AND 20'-0" IN THE LONGEST DIMENSION. EACH PANEL SHALL BE BOUNDED WITH CONSTRUCTION JOINTS.
2. SAWED CONTROL JOINTS ARE AN ALTERNATE AND ARE TO BE LOCATED IN A RECTANGULAR PATTERN WITH A MAXIMUM SPACING OF 20'-0". JOINTS SHALL BE SAWED NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. MAXIMUM POUR LENGTH SHALL NOT EXCEED 90'-0".
3. GRAVEL OR SAND FILL HALL BE PLACED ON UNDISTURBED SOIL OR FILL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.

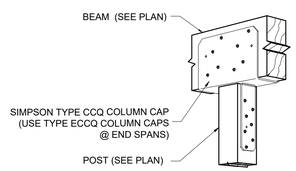
TYPICAL CONCRETE SLAB-ON GRADE INSTALLATION DETAIL

SCALE: N.T.S.



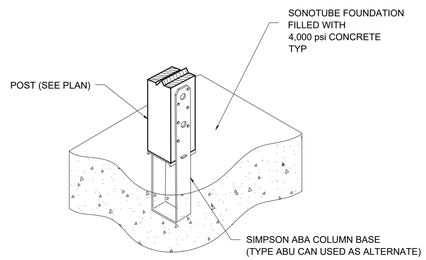
3 S-102 RECESS TYPICAL DETAIL

SCALE: N.T.S.



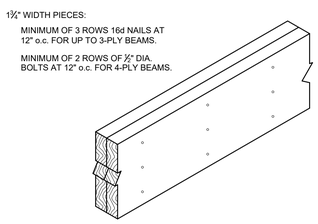
TYPICAL BEAM ON COLUMN CAP

SCALE: N.T.S.



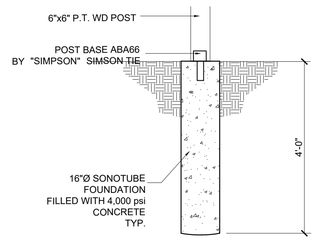
TYPICAL COLUMN BASE DETAIL

SCALE: N.T.S.



FASTENING MULTIPLE MEMBERS

SCALE: N.T.S.



TYPICAL SONOTUBE FOUNDATION DETAIL

SCALE: N.T.S.

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