Lightbridge Academy

655 REEDY CREEK RD **CARY, NC 27513**

BUILDING CODE NOTES:

This project is designed under the following Codes:

- 2018 NORTH CAROLINA ADMINISTRATIVE CODE AND POLICIES
- 2018 NORTH CAROLINA BUILDING CODE
- 2018 NORTH CAROLINA ENERGY CONSERVATION CODE
- 2018 NORTH CAROLINA FIRE PREVENTION CODE
- 2018 NORTH CAROLINA FUEL GAS CODE
- 2018 NORTH CAROLINA MECHANICAL CODE
- 2018 NORTH CAROLINA PLUMBING CODE 2018 NORTH CAROLINA ELECTRIC CODE (2017 NATIONAL ELECTRIC CODE (NEC))

New Construction, one story building, fully sprinklered, total floor area of 11,453 s.f.

Building Characteristics (Tables 504.3, 504.4, 506.2)

	Allowed	Proposed	Comments
Type of Construction:	Type VB	Type VB	Complies
No. of Stories:	2	1	Complies
Building Area:	36,000 sf	11,453 sf	Complies
Building Height:	60'-0"	26'-0"	Complies

Childcare Facility- I-4. The building is a child day care center which is classified as a I-4 Use Group as per Section 308.6 of the NCBC.

Fire Resistance Ratings (Table 601)

Building Element	Required	Proposed	Comment	
Structural Frame	0 Hour	0 Hour	Complies	
Bearing Walls	0 Hour	0 Hour	Complies	
Non-bearing Walls	0 Hour	0 Hour	Complies	
Floor Construction	0 Hour	0 Hour	Complies	
Roof Construction	0 Hour	0 Hour	Complies	

Interior Wall and Ceiling Finish Requirements By Occupancy (Table 803.11)

Group	EXIT STAIRWAYS & EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
l-4	В	В	В

- 1. 803.1.1 Interior wall and ceiling finish materials. Finish materials shall be classified in accordance with ASTM E 84 or UL 723.
- 2. 803.1.1. Class B. Flame spread index 26-75; smoke-developed index 0-450.

Fire Protection Systems

Automatic Sprinkler Systems (Section 903)

1. 903.2.6 Group I. An automatic sprinkler system shall be provided throughout the building.

Portable Fire Extinguishers (Section 906)

1. 906.1. Required and shall be located in accordance with the IFC, Table 906.1.

Fire Alarm And Detection Systems (Section 907)

- 1. 907.2.6 Group I. A manual fire alarm system that activates the occupant notification system shall be installed.
- 2. 907.2.6 Group I. An automatic smoke detection system that activates the occupant notification system shall be installed.
- 3. 907.4.2 Manual fire alarm boxes. Where a manual fire alarm system is required, it shall be activated by fire alarm boxes installed as follows:
- a. Shall be located not more than 5 feet from the entrance to each exit. Additional manual fire alarm boxes shall be located so that travel distance to the nearest box does not exceed
- b. The height shall be a minimum of 42 inches and a maximum of 48 inches measured vertically from the floor level to the activating handle or lever of the box.
- 4. 907.5.2.3 Visible alarms. Visible alarm notification appliances shall be provided. They shall be provided in public and common areas.

Fire Department Connections (Section 912)

1. 912.1. Fire department connections shall be installed in accordance with NFPA.

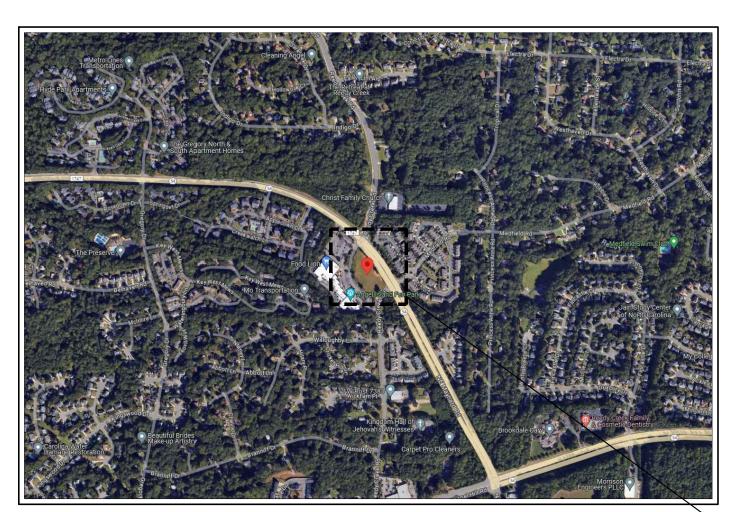
Means of Egress Occupant Load (Section 1004)

1. Total Occupancy = 242, see drawing G102.

Plumbing Requirements - See Dwg. G102 for plumbing fixture count.

RESPONSIBILITY SCHEDULE

	Required or					
Items	Recommended Vendor	Vendor	Supplied	Installed	Lead Time	Notes:
Access Control	Required	Mellin Tech	Landlord	Landlord		Wiring By Mellin Tech
All Low Voltage Wiring	Required	Mellin Tech	Landlord	Landlord		Wiring By Mellin Tech
						Refrigerator: May need to switch handle due to swing of door.
Appliances	N/A	Local Supplier	Franchisee	Landlord	4-6 Weeks	Dryer: Gas Dryer preferred with Venting.
Artwork	Required	Effective	Franchisee	Franchisee	4-6 Weeks	
Bathroom Partitions	Recommended	Atlantic Partitions Co.	Landlord	Landlord		
BenQ/ TV's	Required	PCG	Franchisee	Landlord	4-6 Weeks	Wiring By Mellin Tech
Bulletin Boards/Chair Rail	N/A	GC	Landlord	Landlord		
Cabinetry	N/A	GC	Landlord	Landlord	12-16 Weeks	
Cubbbies in Classrooms	Required	Beckers	Franchisee	Landlord		
CCTV Cameras	Required	Watch Me Grow	Franchisee	Franchisee	8-12 Weeks	Wiring By Mellin Tech
CCTV Wiring	Required	Mellin Tech	Landlord	Landlord		Wiring By Mellin Tech
Classroom Furniture	Required	Beckers	Franchisee	Franchisee	14-16 Weeks	
Corner Guards	Required	IPC Door and Wall Protection System	Landlord	Landlord	4-6 Weeks	
Door Releases	Required	Mellin Tech	Landlord	Landlord		Wiring By Mellin Tech
Facial Recognition	Required	Kintronics	Franchisee	Landlord	14-16 Weeks	Wiring By Mellin Tech
Fire Alarm	N/A	GC	Landlord	Landlord		
IVAC Micron	Required	RGF	Landlord	Landlord	8-10 Weeks	
.T. Rack Equipment	Required	PCG	Franchisee	Landlord	4-6 Weeks	Wiring By Mellin Tech
Interior and Exterior Signage	Required	Effective	Franchisee	Franchisee	14-16 Weeks	
Interior and Exterior Signage Wiring	N/A	GC	Landlord	Landlord		Monument sign and Building sign
Internet Services	Required	Mellin Tech	Franchisee	Franchisee	14-20 Weeks	Wiring By Mellin Tech
Office Furniture	Required	WB Mason	Franchisee	Franchisee	8-10 Weeks	
PA Speaker and Amp	Required	Mellin Tech	Landlord	Landlord		Wiring By Mellin Tech
Panic Button	Required	Mellin Tech	Landlord	Landlord		Wiring By Mellin Tech
Phone Wiring	Required	Mellin Tech	Landlord	Landlord		Wiring By Mellin Tech
Phones	Required	Mellin Tech	Franchisee	Landlord	4-6 Weeks	Wiring By Mellin Tech
Playground Equipment	Required	Xceed	Franchisee	Franchisee	14-16 Weeks	
Playground Fence	N/A	GC	Landlord	Landlord		
Playground Footings for Shade	N/A	GC	Landlord	Landlord		
Playground Shade and Pole	Required	Xceed	Franchisee	Franchisee	14-16 Weeks	
Playground Surface	Required	Forever Lawn	Landlord	Landlord	14-16 Weeks	This is only the turf and padding.
PT, TP, Soap Dispensers	Required	WB Mason	Franchisee	Landlord	4-6 Weeks	
Security System	Required	Mellin Tech	Landlord	Landlord		Wiring By Mellin Tech
Vinyl Wall Covering	Required	Koroseal	Landlord	Landlord	16 Weeks	
Water Filtration	Required	WB Mason	Franchisee	Franchisee	4-6 Weeks	
Window Treatments	Required	MAG Resources	Franchisee	Franchisee	8-10 Weeks	
Mechanical Equipment/Electrical Switching	Required	GC	Landlord	Landlord	45-55 Weeks	Ordered within 30 days of contract issue
Submittal Schedule to Architect	Required	GC	Landlord	Landlord		Submitted within 15 days of contract issuance.



AERIAL LOCATION MAP N.T.S.



LIST OF DRAWINGS

_	ARCHITECTURALS	
	G001	TITLE SHEET
	G002	APPENDIX "B" SHEET (TO BE ISSUED WITH S+S PERMIT SET)
	G003	COMCHECK (TO BE ISSUED WITH S+S PERMIT SET)
	G004	COMCHECK (TO BE ISSUED WITH S+S PERMIT SET)
	G005	GENERAL CONDITIONS SHEET
	G006	ACCESSIBILITY SHEET
	G007	ACCESSIBILITY SHEET
	G101	LIFE SAFETY FLOOR PLAN, LEGEND & NOTES
	G102	LICENSING FLOOR PLAN, LICENSING CHART & NOTES
	G103	FURNITURE FLOOR PLAN, & NOTES
	A100	CONSTRUCTION PLAN, DETAILS, LEGEND & NOTES
	A101	REFLECTED CEILING PLAN, DETAILS, LEGEND & NOTES
	A102	FINISH FLOOR PLAN, SCHEDULES, LEGEND & NOTES
	A103	ROOF PLAN, DETAILS & NOTES
	A200	BUILDING ELEVATIONS & SCHEDULES
	A300	BUILDING SECTIONS
	A301	WALL SECTIONS
	A302	PORTICO SECTIONS
	A400	ENLARGED TOILET PLANS & ELEVATIONS, SCHEDULE & NOTES
	A401	ENLARGED INTERIOR PLANS & ELEVATIONS
	A402	CASEWORK ELEVATIONS & DETAILS
	A403	ENLARGED BUILDING ELEVATIONS & DETAILS
	A404	CORRIDOR ELEVATIONS & NOTES
	A500	EXTERIOR DETAILS
	A600	DOOR & FRAME SCHEDULES, DETAILS & NOTES
	A700	PLAYGROUND PLAN & NOTES
	A701	PLAYGROUND DETAILS & NOTES
	<u>STRUCTURAL</u>	OTRUGTURAL OF VETA
	S100	STRUCTURAL GENERAL NOTES

S201 STRUCTURAL FRAMING DETAILS ENERGY ANALYSIS SHEET (TO BE ISSUED WITH S+S PERMIT SET) EN-001 EN-002 ENERGY ANALYSIS SHEET (TO BE ISSUED WITH S+S PERMIT SET) ENERGY ANALYSIS SHEET (TO BE ISSUED WITH S+S PERMIT SET) EN-003 <u>MECHANICAL</u>

MECHANICAL COVER SHEET

M-001

FOUNDATION DETAILS

FOUNDATION PLAN, DETAILS, & NOTES

MECHANICAL FLOOR PLAN MECHANICAL ATTIC PLAN MECHANICAL SPECIFICATIONS MECHANICAL DETAILS SHEET 1 OF 2 MECHANICAL DETAILS SHEET 2 OF 2 MECHANICAL VENTILATION CALCULATION - SHEET 1 OF 2 MECHANICAL VENTILATION CALCULATION - SHEET 1 OF 2 M-603 MECHANICAL SCHEDULES

ELECTRICAL E-001 ELECTRICAL COVER SHEET ELECTRICAL GENERAL NOTES ELECTRICAL POWER AND LIGHTING NOTES ELECTRICAL FIRST FLOOR POWER PLAN ELECTRICAL ATTIC POWER PLAN ELECTRICAL FIRST FLOOR LIGHTING PLAN ELECTRICAL ATTIC LIGHTING PLAN ELECTRICAL SPECIFICATIONS **ELECTRICAL SPECIFICATIONS**

ELECTRICAL DETAILS E-402 ELECTRICAL DETAILS ELECTRICAL DETAILS LIGHTBRIDGE ACADEMY ELECTRICAL EQUIPMENT DETAILS ELECTRICAL RISER DIAGRAM **ELECTRICAL PANEL SCHEDULES** PLUMBING P-001 PLUMBING COVER SHEET P-101 PLUMBING DRAINAGE P-102 PLUMBING SUPPLY FLOOR PLAN

PLUMBING SUPPLY ATTIC PLAN P-201 PLUMBING RISER DIAGRAMS P-301 PLUMBING DETAILS P-401 FIRE PROTECTION FP-001

FP-301

PLUMBING SPECIFICATIONS FIRE PROTECTION COVER SHEET FP-101 FIRE PROTECTION FLOOR PLAN FP-102 FIRE PROTECTION ATTIC PLAN

FIRE PROTECTION DETAILS

FIRE PROTECTION SPECIFICATIONS

ARCHITECT OF RECORD: Justin A. Mihalik, AIA 373 US Route 46 West **Building D, Suite 240**

Bergmann Architectural Associates, Inc.

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Fairfield, New Jersey 07004

NOT VALID FOR CONSTRUCTION WITHOUT SEAL



Project: LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

<u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

Lot: Zone:

SHEET TITLE:

TITLE SHEET

	03/29/2024	ISSUED FOR PERMIT					
Rev.#	Date	Remarks					
JOB NUM	1BER: 20	922-01.09					
DATE: 1		0/07/2022					
DRAWN BY: J		JAM/KM					
CHECKED BY: JA		AM					
	SHEET NO.						

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GENERAL CONDITIONS AND NOTES:

- THE CONSTRUCTION DOCUMENTS CONSIST OF THE WORKING DRAWINGS HEREIN, THE PROJECT MANUAL AND ALL ADDENDA, IN THE EVENT OF A CONFLICT OF DISCREPANCY BETWEEN THE DOCUMENTS, THE CONTRACTOR SHALL BRING SUCH CONFLICT OR DISCREPANCY TO THE ATTENTION OF THE ARCHITECT FOR CLARITY PRIOR TO SUBMITTING A BID.
- 2. THE ARCHITECT HAS BEEN RETAINED TO PERFORM AT NORMAL SERVICE STANDARDS FOR THE PREPARATION OF THESE PLANS AND SPECIFICATIONS. THE ARCHITECT HAS <u>NOT</u> BEEN RETAINED TO PERFORM OTHER SERVICES SUCH AS: CIVIL, MECHANICAL, SOILS, ELECTRICAL, SPECIAL FOUNDATION, ENGINEERING OR SERVICES SUCH AS LEGAL, ENVIRONMENTAL, REAL ESTATE, CONSTRUCTION CONTRACTING OR CONTRACTOR
- 3. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR SOILS OR SUBSURFACE ENGINEERING OR CONDITIONS.
- 4. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR OBTAINING MUNICIPAL APPROVALS, SUCH AS BUILDING DEPARTMENT, ENVIRONMENTAL OR ZONING. THE ARCHITECT SHALL ASSIST THE OWNER AND CONTRACTOR IN THAT EFFORT AS THE NEED ARISES.
- THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ACTIONS OF THE OWNER OR CONTRACTOR. NOR HAS THE ARCHITECT BEEN RETAINED OR ARE THEY RESPONSIBLE FOR SUPERVISION OF THE CONTRACTOR, DESIGN OF SAFETY PROVISIONS AT THE SITE, CONSTRUCTION SCHEDULES OR MEANS AND METHODS OF THE CONSTRUCTION.
- THE CONTRACTOR AND OWNER SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE BUILDING AND IT'S FACILITIES.
- 7. ALL MATERIALS, FORMS, ASSEMBLIES AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND MEET ALL MUNICIPAL REQUIREMENTS.

INTENT OF THIS SPECIFICATION AND GENERAL CONDITIONS:

MENTIONED HEREIN OR INDICATIONS ON DRAWINGS OR ARTICLES, OPERATIONS, METHODS OR MATERIALS, REQUIRES THAT THE CONTRACTOR PROVIDE EACH ITEM MENTIONED, INDICATED OR IMPLIED TO ACHIEVE THE INTENDED "PROJECT", BUILDING AND SITE WORK, ACCORDING TO THE METHODS OF BEST CONSTRUCTION PRACTICE (OR OF QUALITY OR METHOD SPECIFICALLY NOTED.) IN NO EVENT IS ANY ARTICLE, OPERATION, METHOD OR MATERIAL TO FALL BELOW BEST QUALITY AND FIRST CLASS TRADE. SAFETY STANDARDS AND ZONING AND CODE REQUIREMENTS. IN EVENT OF CONFLICTING STANDARDS, CODES OR SPECIFICATION REQUIREMENTS, THE METHOD, EQUIPMENT AND OPERATION OR MATERIAL OF BEST AND SAFEST QUALITY IS TO GOVERN THE WORK. ALL EQUIPMENT AND MATERIAL IS TO BE NEW AND IS TO BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SPECIFIED. ALL WORK, ARTICLES, OPERATIONS, METHODS AND MATERIALS ARE TO BE APPROVED BY GOVERNING BUILDING OFFICIALS.

THE CONTRACTOR SHALL LAY OUT ALL WORK AND BE RESPONSIBLE FOR IT'S CORRECTNESS AND SAFETY AND SHALL PROVIDE ALL NECESSARY LINES, LEVELS AND DIMENSIONS AS NOTED. ALL MEASUREMENTS SHALL BE VERIFIED AT THE SITE AND BUILDING BY THE CONTRACTOR AND TRADES BEFORE ORDERING MATERIALS OR DOING ANY WORK. ANY DISCREPANCIES IN SITE, SOIL CONDITIONS, EXISTING BUILDING CONDITIONS, PLANS AND DETAILS MUST BE REPORTED TO THE ARCHITECT AT ONCE. NO CHANGES OR SUBSTITUTIONS MAY BE MADE UNLESS APPROVED BY OWNER AND ARCHITECT.

- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE SITE, BUILDING AND ITS FACILITIES AND PROVIDE INSURANCE COVERAGE REQUIRED BY LAW AND GOOD STANDARD PRACTICE.
- 11. ALL MATERIALS. FORM ASSEMBLIES AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL MEET THE FOLLOWING REQUIREMENTS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR:
- 11.1. THEY SHALL HAVE BEEN ACCEPTED BY GOVERNING LOCAL AND STATE AGENCIES CODES AT THE EFFECTED DATE OF THE CONTRACT OR BY THE BOARD OF STANDARDS. OR
- 11.2. SHALL HAVE BEEN ACCEPTED FOR USE UNDER THE PRESCRIBED CODE TEST METHODS.
- 12. AT LEAST 48 HOURS WRITTEN NOTICE SHALL BE GIVEN TO THE BUILDING DEPARTMENT BEFORE COMMENCEMENT OF WORK AND A BUILDING PERMIT OBTAINED BEFORE STARTING ANY WORK.
- 13. ALTERED GRADES EXCEEDING 30 DEGREE SLOPE SHALL HAVE A RETAINING WALL FILED AND APPROVED BY THE DEPARTMENT OF BUILDING BEFORE START OF SUCH WORK.

14. ARCHITECT'S STATUS:

THE ARCHITECT IS RESPONSIBLE ONLY TO THE EXTENT OF PROVIDING THE CONSTRUCTION DOCUMENTS, PLANS AND SPECIFICATIONS FOR THIS PROJECT SCOPE. THE ARCHITECT SHALL INTERPRET CONSTRUCTION DOCUMENTS TO THE BEST OF HIS KNOWLEDGE AND BASED ON HIS PROFESSIONAL OPINION, WILL DEFINE THEIR MEANING. THE ARCHITECT IS NOT RESPONSIBLE FOR MEANS AND METHODS OF THE CONTRACTOR AND IS NOT RESPONSIBLE FOR SAFETY ON THE JOB OR DELAYS IN CONSTRUCTION. THE ARCHITECT SHALL NOT BE RESPONSIBLE NOR BE HELD LIABLE FOR SITE OR CONSTRUCTION SAFETY CONDITIONS, CONSTRUCTION MEANS OR METHODS. THE ARCHITECT IS NOT RESPONSIBLE FOR ADMINISTRATION OF THE CONSTRUCTION. THE ARCHITECT IS NOT RESPONSIBLE FOR ACTIONS OF THE DEVELOPER, CONTRACTOR, SUB CONTRACTORS OR OWNER-USER.

SCOPE OF WORK:

THE CONTRACTOR SHALL CONSTRUCT THE PROJECT AS DESCRIBED IN THE CONTRACT DOCUMENTS (THE WORKING DRAWINGS AND SPECIFICATIONS). THE WORD "ARCHITECT" SHALL DESCRIBE JUSTIN A. MIHALIK. A.I.A. THE PROJECT IS DESIGNED TO CONFORM WITH ALL GOVERNING BUILDING CODES AND ZONING REQUIREMENTS AND THOSE ENGAGED IN THE WORK ARE DIRECTED TO MEET THOSE ENDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

THE CONTRACTOR SHALL FILE WITH THE OWNER, CERTIFICATES OF THE FOLLOWING COVERAGE INCLUDED BUT NOT LIMITED TO:

- A. WORKMEN'S COMPENSATION INSURANCE AS REQUIRED BY ALL GOVERNING LAW.
- B. PUBLIC LIABILITY INSURANCE COVERING ANY ONE PERSON AND COVERING SEVERAL PERSONS PER THE A.I.A. DOCUMENTS AS A MINIMUM. MORE COVERAGE MAY BE DESIRED OR NEEDED.
- C. PROPERTY DAMAGE INSURANCE: THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE OWNER A CERTIFICATE FOR PROPERTY DAMAGE INSURANCE COVERING EACH ACCIDENT AND COVERING THE AGGREGATE OF OPERATIONS MINIMUM PER THE ABOVE MENTIONED A.I.A. DOCUMENT REQUIRES "AS A MINIMUM". MORE COVERAGE MAY BE DESIRED OR NEEDED.

THE CONTRACTOR SHALL OBTAIN INSURANCE AND PROVIDE CERTIFICATES OF INSURANCE TO THE OWNER. THE CERTIFICATES SHALL CONTAIN A 30 DAY NOTICE OF CANCELLATION CLAUSE ADDRESSED TO OWNER.

REQUIRED DOCUMENTATION:

THE OWNER SHALL PROVIDE ALL NECESSARY SURVEYS, SOIL REPORTS AND PERTINENT DATA NEEDED OR REQUESTED BY THE ARCHITECT IN ORDER TO PREPARE PLANS AND SPECIFICATIONS.

THE OWNER SHALL EFFECT AND MAINTAIN ALL INSURANCE COVERAGES AS REQUIRED.

ALL INSURANCE DESCRIBED HEREIN IS A RECOMMENDED MINIMUM. MORE COVERAGE MAY BE NEEDED.

VISITING THE SITE:

THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELF WITH THE CONDITIONS THAT EXIST. THE CONTRACTOR SHALL INFORM THE OWNER AND ARCHITECT OF ANY CONDITIONS WHICH ARE NOT COVERED BY THE WORKING DRAWINGS OR SPECIFICATIONS OR DISCREPANCIES IN EXISTING CONDITIONS

LAYOUT OF WORK:

A SURVEY IS TO BE MADE AVAILABLE FROM THE OWNER TO THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL LAY OUT THE WORK AND ESTABLISH ELEVATIONS, ACCURATELY MARKED ON SUBSTANTIAL BATTER BOARDS.

MEASUREMENTS AND DIMENSIONS:

MEASUREMENTS AND DIMENSIONS, INDICATED ON THE DRAWINGS ARE NOMINAL. THEY SHALL BE ADHERED TO WHEREVER PRACTICAL, MAJOR DEVIATIONS IN DIMENSIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE PROCEEDING WITH WORK. PRIOR TO CONTRACTOR'S PURCHASE OF ANY BUILT-IN EQUIPMENT OR CABINETS, THE CONTRACTOR IS TO TAKE FIELD DIMENSIONS AND SHALL BE RESPONSIBLE FOR THEIR CORRECTNESS.

THE CONTRACTOR IS LIABLE FOR ALL STATE AND FEDERAL EMPLOYER'S AND EMPLOYEE'S TAXES, SALES TAXES AND WITHHOLDING TAXES.

GUARANTEE:

THE CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE BUILDING AND A CERTIFICATE OF OCCUPANCY IS OBTAINED.

CONTRACT DRAWINGS:

THE CONTRACT DRAWINGS. WHICH ACCOMPANY AND FORM A PART OF THESE DOCUMENTS ARE ATTACHED HEREINAFTER. THE CONTRACT DRAWINGS DO NOT SHOW ALL THE DETAILS OF THE WORK AND ARE INTENDED ONLY TO ILLUSTRATE THE CHARACTER AND EXTENT OF THE WORK TO BE PERFORMED. ACCORDINGLY, THEY MAY BE SUPPLEMENTED DURING THE PERFORMANCE OF THE WORK BY THE ARCHITECT OR BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ARCHITECT TO THE EXTENT NECESSARY TO FURTHER ILLUSTRATE THE WORK AND SHALL. AT ALL TIMES, REMAIN THE POSSESSION OF THE ARCHITECT.

ADDITIONAL DRAWINGS:

THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS WHICH MAY BE NECESSARY OR REQUIRED. THE SIZE OF THE DRAWINGS, THE NUMBER OF COPIES AND THE DETAILS TO BE SHOWN THEREON SHALL BE AS APPROVED BY THE OWNER IN ADVANCE OF THEIR PREPARATION. BEFORE ISSUING ANY SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT PRINTS THEREOF, INCLUDING THE REQUIRED NUMBER OF REVISED PRINTS, UNTIL THE DRAWINGS ARE APPROVED BY THE OWNER. AFTER APPROVAL THEREOF, NO CHANGE SHALL BE MADE THEREON UNLESS APPROVED, IN WRITING, BY THE OWNER. TRACINGS OF SHOP DRAWINGS SHALL BE DELIVERED TO THE OWNER PRIOR TO FINAL PAYMENT.

LAWS AND ORDINANCES: IN ORDER TO EFFECTUATE THE WORK PROPERLY, THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE, MUNICIPAL AND DEPARTMENTAL LAWS, CODES ORDINANCES, RULES, REGULATIONS AND ORDERS WHICH WOULD AFFECT THE WORK AND ITS PERFORMANCE AND THOSE ENGAGED THEREIN. THE WORK IS TO CONFORM WITH ALL GOVERNING BUILDING CODES, AND ZONING REQUIREMENTS AND THOSE ENGAGED THEREIN ARE DIRECTED TO MEET THOSE ENDS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECTS IMMEDIATELY.

ANY APPROVAL BY THE ARCHITECT OR ANYTHING DONE OR PROPOSED TO BE DONE BY THE CONTRACTOR SHALL BE CONSTRUED MERELY TO MEAN THAT AT THAT TIME THE ARCHITECT KNOWS OF NO GOOD REASON FOR OBJECTING TO THERETO: AND NO SUCH APPROVAL SHALL RELIEVE THE CONTRACTOR FROM HIS FULL RESPONSIBILITY FOR THE COMPLETE AND ACCURATE PERFORMANCE OF THE WORK IN ACCORDANCE HEREWITH OR FROM ANY DUTY. OBLIGATION OR LIABILITY IMPOSED UPON HIM BY THE CONTRACT OR FROM RESPONSIBILITY FOR INJURIES TO PERSONS OR DAMAGE TO PROPERTY.

CONTRACTOR'S REPRESENTATIVE:

DURING THE PERFORMANCE OF ANY WORK AT THE SITE, THE CONTRACTOR SHALL HAVE A REPRESENTATIVE PRESENT WHO SHALL BE AUTHORIZED BY THE CONTRACTOR TO SUPERVISE THE WORK AND BE RESPONSIBLE FOR SAFELY CONDUCTING OPERATIONS AND ACTIVITIES. THE SUPERVISOR SHOULD BE DEDICATED TO THE PROJECT FOR ITS DURATION AND NOT BE REPLACED WITHOUT 30 DAYS NOTICE TO THE OWNER.

ALL CONTROLLED INSPECTIONS SHALL BE PERFORMED BY THE BUILDING DEPARTMENT. THE CONTRACTOR SHALL PROVIDE THE REQUIRED NOTICE FOR SAME AND BE PRESENT FOR ALL SUCH INSPECTIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE PERSON DESIGNATED. WITH AMPLE NOTICE, TO MAKE SUCH INSPECTIONS.

REPORTS OF ALL INSPECTIONS OF MATERIALS AND REQUIRED TESTS SHALL BE FILED WITH THE OWNER WITH A SIGNED STATEMENT BY THE PERSON DESIGNATED FOR SUCH INSPECTION BEFORE FINAL PAYMENT.

PER 107.1 OF 2018 NC ADMINISTRATIVE CODE AND POLICIES, THE INSPECTIONS DEPARTMENT SHALL PERFORM THE FOLLOWING INSPECTIONS:

- A. FOOTING INSPECTION
- B. UNDER SLAB INSPECTION, AS APPROPRIATE
- C. FOUNDATION INSPECTION
- ROUGH-IN INSPECTION
- BUILDING FRAMING INSPECTION
- INSULATION INSPECTION G. FIRE PROTECTION INSPECTION
- H. FINAL INSPECTION

FINAL INSPECTION

WHEN. IN THE OPINION OF THE CONTRACTOR. THE WORK IS COMPLETED AND READY FOR FINAL INSPECTION. HE SHALL NOTIFY THE OWNER AND BUILDING DEPARTMENT OFFICIAL AND THE OWNER EITHER IN PERSON OR BY A DESIGNATED REPRESENTATIVE, WILL INSPECT THE WORK. BEFORE A CERTIFICATE OF FINAL COMPLETION WILL BE ISSUED BY THE OWNER AND BUILDING DEPARTMENT OFFICIALS, ANY DEFECTS OR OMISSIONS NOTED ON THIS INSPECTION MUST BE MADE GOOD BY THE CONTRACTOR.

FINAL SURVEY - AN ACCURATE AND COMPLETE PROPERTY SURVEY, MADE AND SEALED BY A PROFESSIONAL LICENSED LAND SURVEYOR, MAY BE REQUIRED. AFTER COMPLETION OF ALL WORK, THIS SURVEY MAY BE REQUIRED TO SHOW LOCATION OF NEW WORK, ELEVATION OF FLOOR LEVELS, ELEVATIONS OF FINISHED GRADES AND ELEVATIONS AT PROPERTY LINE INTERSECTIONS, LOCATION AND BOUNDARIES OF THE LOT, AND ALL BUILDINGS. IF MUNICIPAL OR OTHER AGENCIES REQUIRE SUCH A SURVEY, IT SHALL BE ORDERED BY THE CONTRACTOR AND PAID FOR BY THE OWNER.

THE CONTRACTOR SHALL PROTECT AREAS ADJACENT TO THE WORK AND SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL MAINTAIN THE JOB SITE AND BUILDING IN A NEAT, CLEAN AND SAFE CONDITION AND SHALL, AT COMPLETION OF THE JOB, TURN OVER THE SITE AND BUILDING TO THE OWNERS IN A CONDITION SUITABLE TO MOVE IN, ALL SURFACES SHALL BE CLEAN AND READY FOR FURNISHING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE MAINTENANCE OF THE BUILDING AND ITS FACILITIES AND IS RESPONSIBLE FOR CONSTRUCTING THE WORK ACCORDING TO PLANS AND SPECIFICATIONS.

THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, CONDITIONS, NOTES, WORK, ETC. AT THE JOB SITE BEFORE ANY WORK IS STARTED, BE RESPONSIBLE FOR SAME AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT BEFORE WORK IS STARTED WITH AMPLE TIME FOR CHANGES TO BE MADE.

ALL PLANS ARE REQUIRED TO HAVE THE APPROVAL OF THE MUNICIPAL AUTHORITIES AND OTHER AGENCIES. THE PLANS ARE SUBJECT TO REVIEW AND COMMENT PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE ARCHITECT WILL SUPPLY THREE (3) COPIES OF SIGNED AND SEALED SETS OF PLANS FOR THE CONTRACTOR TO PRESENT TO MUNICIPAL AUTHORITIES. NO WORK IS TO BE DONE UNTIL A BUILDING PERMIT IS OBTAINED.

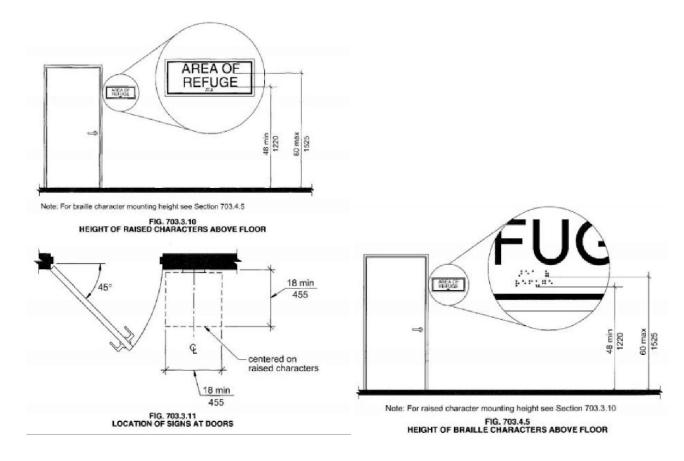
CHANGES TO THE BUILDING DESIGN:

NO CHANGES ARE TO BE MADE TO THE BUILDING WHICH DEVIATE FROM THESE GENERAL CONDITIONS, TECHNICAL NOTES OR CONSTRUCTION DOCUMENTS, WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. IF THE CONTRACTOR OR OWNER PROCEED WITH ANY CHANGES WITHOUT PRIOR APPROVAL BY THE ARCHITECT THEY WILL DO SO AT THEIR OWN RISK AND SUCH CHANGES MAY REQUIRE REMOVAL.

WORK INCLUDED:

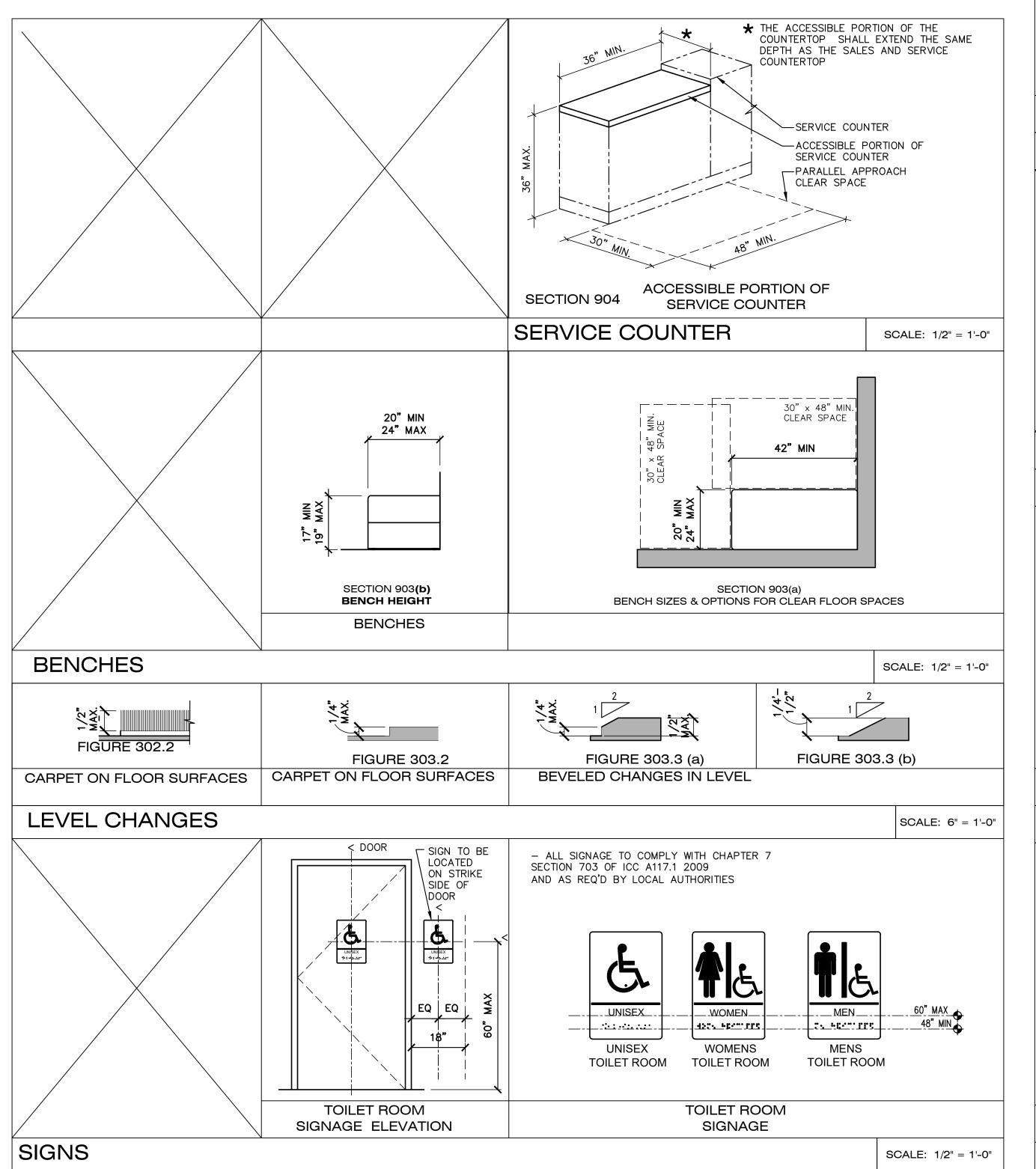
THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE ALL WORK DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS.

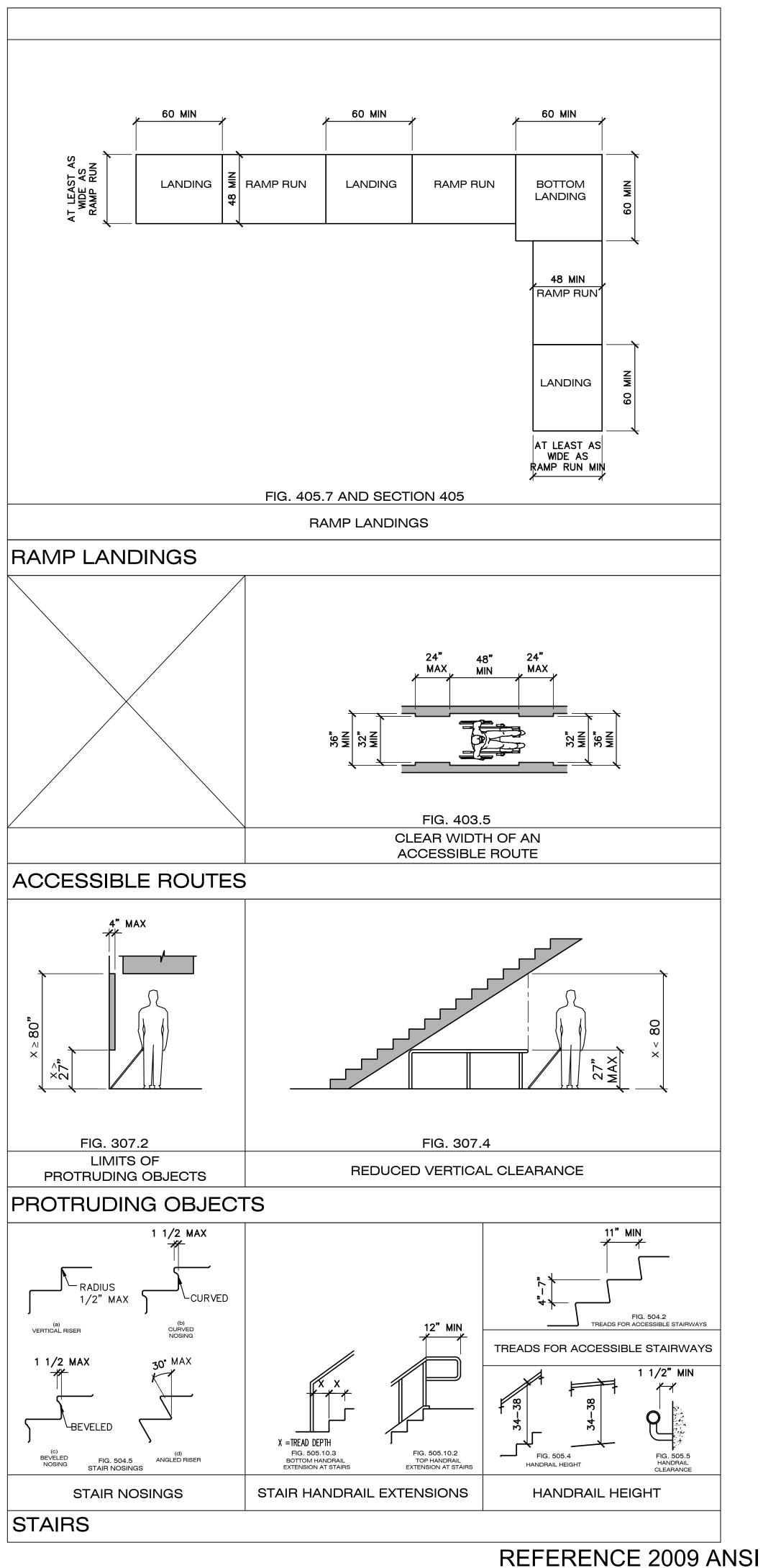
T		
ABBRE	VIATIONS	
A.C.T. ADJ.	ACOUSTICAL CLG. TILE ADJACENT	
A.F.F.	ABOVE FINISH FLOOR	
ALUM. ANG.	ALUMINUM ANGLE	JAM ARCH
BLK.		IS NOW COLLIERS ENGINEERING & DESIGN
BLN. BD.	BLOCKING BOARD	ARCHITECT OF RECORD:
BLDG. B.O.	BUILDING BOTTOM OF	Justin A. Mihalik, AIA
		373 US Route 46 West
CLG. CL.	CEILING CENTER LINE	Building D, Suite 240 Fairfield, New Jersey 07004
CONC. CONST.	CONCRETE CONSTRUCTION	ph: (973) 291-3730 fax: (973) 291-3740
C.M.U.	CONC. MASONRY UNIT	www.colliersengineering.com
DIAG.	DIAGONAL	
DEMO. DET.	DEMOLITION	Bergmann Architectural Associates, Inc.
D.F.	DETAIL DRINKING FOUNTAIN	
DIA. DIM.	DIAMETER DIMENSION	
DN.	DOWN	1 1 10
D.O. DWG.	DITTO DRAWING	And Schillelf
EA.	EACH	JUSTIN A. MIHALIK, AIA NC LIC. #
ELEC.	ELECTRICAL	
ELEV.	ELEVATOR ELEVATION	
EQUIP.	EQUIPMENT	
EXIST. EQ.	EXISTING EQUAL	NOT VALID FOR CONSTRUCTION WITHOUT SEAL
F.D. FIN.	FLOOR DRAIN FINISH	
F.P.	FIREPROOF	
F.P.S.C. FL.	FIREPROOF SELF-CLOSING FLOOR	X
FR.	FIRE RATED	Lightbridge
FLUOR. FT.	FLUORESCENT FEET	Lightbridge Academy _{ss}
GALV.	GALVANIZED	
GA.	GAUGE	Innovators in Educational Child Care
G.C. G.W.B.	GENERAL CONTRACTOR GYPSUM WALL BOARD	
GYP.	GYPSUM	
HT.	HEIGHT	
H.M.	HOLLOW METAL	
INSUL.	INSULATION	Project:
L.B.	LIGHTBRIGE ACADEMY	LIGHTBRIDGE ACADEMY
MAR.	MARBLE	655 Reedy Creek Rd
MAX. MECH.	MAXIMUM	Cary, NC 27513
MFR.	MECHANICAL MANUFACTURER	
MIN. MISC.	MINIMUM MISCELLANEOUS	<u>Developer:</u> STNL Advisors LLC
MTL.	METAL	260 Madison Ave, 5th Flr
NOM.	NOMINAL	New York, NY 10016
N. N.C.	NORTH NON CORPOCIVE	Lot: -
N.I.C.	NON-CORROSIVE NOT IN CONTRACT	Zone: -
N.T.S. NO.	NOT TO SCALE NUMBER	
O.C.	ON CENTER	SHEET TITLE:
OPNG. OPP.	OPENING OPPOSITE	GENERAL CONDITIONS
PTD.	PAINTED	SHEET
PART.	PARTITION	
PL. PLAM.	PLATE PLASTIC LAMINATE	
PLYWD.	PLYWOOD	
REQD.	REQUIRED	
SIM.	SIMILAR	
SPEC. S.F.	SPECIFICATIONS SQUARE FEET	
ST. STL	STAINLESS STEEL	
STL. STRUCT.	STEEL STRUCTURAL	
SUSP.	SUSPENDED	
T&S	TAPE & SPACKLE	
TEL. THK.	TELEPHONE THICK	00/00/004
T.O.	TOP OF	03/29/2024 ISSUED FOR PERMIT Rev. # Date Remarks
TYP.	TYPICAL	JOB NUMBER: 2022-01.09
U.C.	UNDERCUT	
U.O.N. UNF.	UNLESS OTHERWISE NOTED UNFINISHED	DATE: 10/07/2022
V.C.T.		DRAWN BY: JAM/KM
VEST.	VINYL COMPOSITION TILE VESTIBULE	CHECKED BY: JAM
V.I.F.	VERIFY IN FIELD	SHEET NO.
WD.	WOOD	G005
W/ W/O	WITH WITHOUT	U 000



BRAILLE SIGNEAGE DETAIL

N.T.S.







Justin A. Mihalik, AIA

373 US Route 46 West Building D, Suite 240 Fairfield, New Jersey 07004 ph: (973) 291-3730 fax: (973) 291-3740 www.colliersengineering.com

Bergmann Architectural Associates, Inc.



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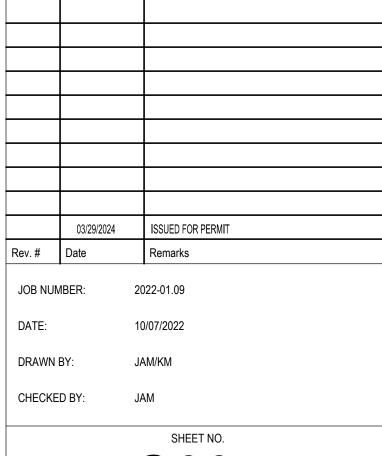
Project:
LIGHTBRIDGE ACADEMY
655 Reedy Creek Rd
Cary, NC 27513

Developer:
STNL Advisors LLC
260 Madison Ave, 5th Flr
New York, NY 10016

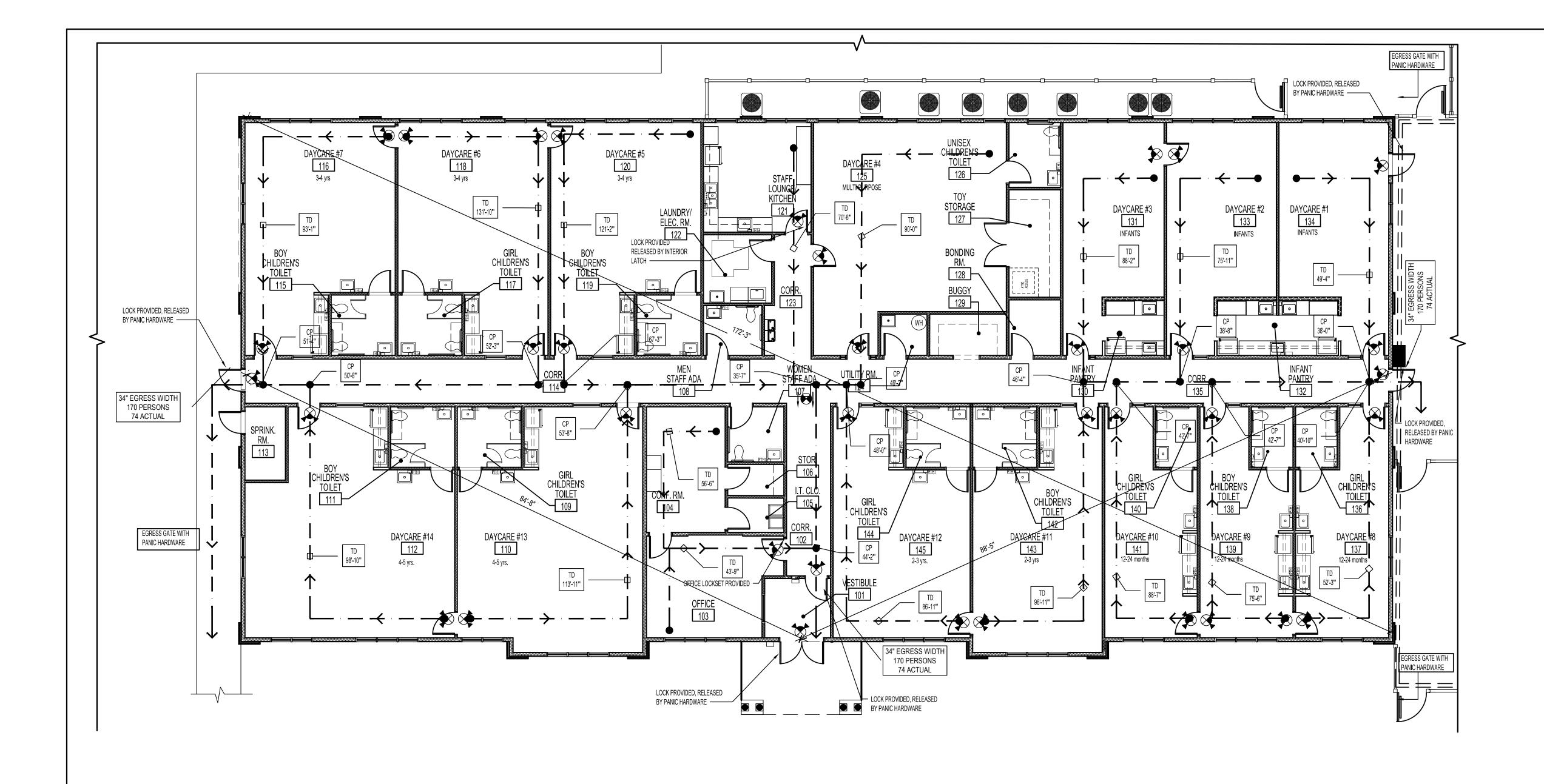
Lot: Zone:

SHEET TITLE:

ACCESSIBILITY SHEET



G007



LIFE SAFETY FLOOR PLAN

SCALE: 1/8" = 1'-0"

BUILDING CODE NOTES EGRESS PLAN LEGEND LIFE SAFETY FLOOR

Means of Egress
Occupant Load (Section 1004) TD TRAVEL DISTANCE
X'-X" MEASURED DISTANCE 1. Total Occupancy = 242, see drawing G102. CP COMMON PATH
X-X" MEASURED DISTANCE Means of Egress Sizing (Section 1005.3.2) Other Egress= 0.2" Number of Egress Doors= 3 x 34"= 102" START POINT Max. Capacity= 136" / 0.2"= 510 persons PATH OF TRAVEL Actual Capacity= 242 persons, design complies

Group I-4 Means of Egress (Section 1006.2.2.4) Two means of egress required for rooms or spaces with an occupancy of 10 children that are 2-1/2 years of age or less. Design complies

Minimum Number of Exits or Access to Exits Per Story (Table 1006.3.2) Two exits required. Three exits provided, design complies.

Exit And Exit Access Doorway Configuration (Section 1007) Two exits or exit access doorways from any space is required where occupant load exceeds 10.

2. Section 1015.2.1. Where two exits are required, exits shall be placed a distance apart equal to not less than one-third of the length of the maximum overall diagonal dimension of the area to be served measured in a straight line between exits. (Exception #2)

a. First Floor Building diagonal distance = 172'-3" / 3= 57'-5" minimum distance between exit doors, 88'-5" provided.

Exit Access Travel Distance (Section 1017.2)

1. Table 1017.2.- Use Group I-4: 200 feet maximum travel distance, 131'-10" maximum provided.

1. Table 1020.1. 0 hour required when sprinklered.

Corridors (Section 1020)

Appendix B Notes

1. Classroom doors are equipped with door closers with hold open function. 2. Classroom doors are equipped with an intruder lockset.

GENERAL NOTES:

1. SEE DWG. G002 FOR ADDITIONAL BUILDING CODE INFORMATION.

2. SEE DWG. G005 FOR GENERAL CONDITIONS. 3. SEE DWG. A100 FOR CONSTRUCTION PLAN.

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Project: LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

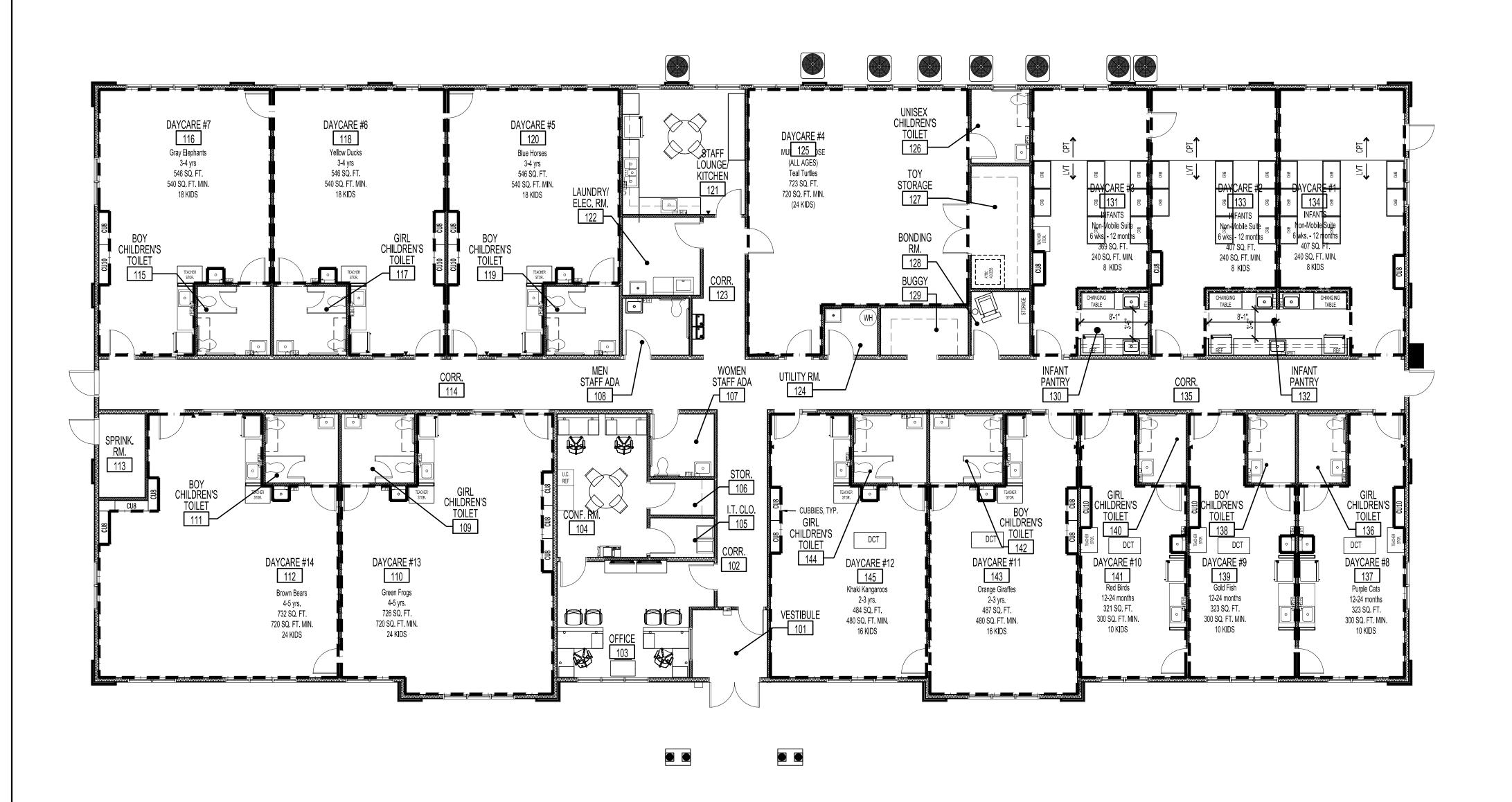
<u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

Lot: Zone: -

SHEET TITLE:

PLAN, LEGEND, & NOTES

	03/29/2024	ISSUED FOR PERMIT				
Rev.#	Date	Remarks				
JOB NUM	IBER: 20	022-01.09				
DATE: 10		0/07/2022				
DRAWN BY: J		JAM/KM				
CHECKED BY: JA		AM				
SHEET NO						



LICENSING FLOOR PLAN

SCALE: 1/8" = 1'-0"

Plumbing Paguiromento (2018 North Caroling Plumbing Code Table 403.1)

Plumbing Requirements (2018 North Carolina Plumbing Code — Table 403.1)													
	NUMBER OF PL		PLUMBING	WATER CLOSETS			LAVATORIES				DRINKING FOUNTAINS	OTHER	
PERSONS OF EACH SE			FIXTURES	CHILD ((1 per			EMPLOYEES (1 per 35)		PERSONS (1 per 100)	MOP SINK			
	М	W		М	W	М	W	М	W	М	W	M/W	M/W
CHILD CARE 158*/2	79	79	MIN. REQUIRED	5	5	1	1	3	3	1	1	1	0
EMPLOYEES 30/2	15	15	PROVIDED	8	9	1	1	16	17	1	1	2	1

*COUNT DOES NOT INCLUDE CHILDREN BELOW 2 YEARS OF AGE PER AHJ

NOTES:

1. OCCUPANCY COUNT IS BASED UPON 1 OCCUPANT TO 35 SQ.FT.
2. PLUMBING COUNT IS BASED UPON I-4

LICENSING CHART

OVERALL BUILDING AREA: 11,453 SQ.FT.

ROOM	ACTUAL	REQUIRED	AGE	TYPE	TEACHER:	MAX # OF	# OF
KOOM	AREA	AREA	AGE	ITPE	CHILD RATIO	CHILDREN	STAFF
OFFICE	306	-	-	-	-	-	3
STAFF LOUNGE	141	-	-	-	-	-	0
DAYCARE #1	407	240	6 Weeks to 12 Months	Infants	1:4	8	2
DAYCARE #2	407	240	6 Weeks to 12 Months	Infants	1:4	8	2
DAYCARE #3	369	240	6 Weeks to 12 Months	Infants	1:4	8	2
DAYCARE #4	723	720	Multi-Purpose	All	-	24 (afterschool)	1
DAYCARE #5	546	540	3 to 4 Years	Pre School	1:9	18	2
DAYCARE #6	546	540	3 to 4 Years	Pre School	1:9	18	2
DAYCARE #7	546	540	3 to 4 Years	Pre School	1:9	18	2
DAYCARE #8	323	300	12 to 24 Months	Young Toddlers	1:5	10	2
DAYCARE #9	323	300	12 to 24 Months	Young Toddlers	1:5	10	2
DAYCARE #10	321	300	12 to 24 Months	Young Toddlers	1:5	10	2
DAYCARE #11	487	480	2 to 3 Years	Toddlers	1:8	16	2
DAYCARE #12	484	480	2 to 3 Years	Toddlers	1:8	16	2
DAYCARE #13	726	720	4 to 5 Years	Pre K	1:12	24	2
DAYCARE #14	734	720	4 to 5 Years	Pre K	1:12	24	2
Total	7,389					212	30

NOTE: THIS PLAN AND LICENSING CHART REFLECTS THE NORTH CAROLINA ADMINISTRATIVE CODE - CHILD CARE RULES - ENHANCED SPACE REQUIREMENTS WITH THE 30 SQ.FT. PER CHILD INDOOR AREA REQUIREMENT AND 75 SQ.FT. PER CHILD OUTDOOR AREA REQUIREMENT FOR ONE-THIRD OF THE TOTAL CAPACITY. THE ENHANCED TEACHER/CHILD RATIO AND THE GROUP SIZES SHOWN ABOVE WILL EARN SEVEN POINTS FOR PROGRAM STANDARDS.

GENERAL NOTES:

- 1. SEE DWG. G002 FOR BUILDING CODE INFORMATION. 2. SEE DWG. G005 FOR GENERAL CONDITIONS.
- 3. SEE DWG. A100 FOR CONSTRUCTION PLANS.

LICENSING NOTES:

- 1. ALL CLASSROOMS DESIGNED UNDER GROUP I-4.
- 2. BUILDING IS FULLY SPRINKLERED.
- 3. BUILDING EQUIPPED WITH EMERGENCY VOICE/ALARM
- COMMUNICATION SYSTEM PER GROUP E. 4. EGRESS TO THE CORRIDOR IS PERMITTED.
- 5. THE PLAN LAYOUT IS BASED ON THE NC STAR PROGRAM AND COMPLIES WITH THE REGULATIONS FOR 7 POINTS FOR CLASSROOM LICENSING. THE PLAYGROUND IS ABOVE THE REQUIREMENT TO MEET 7 POINTS (6,300 SF). SEE DRAWING A700 FOR THE PLAYGROUND PLAN.



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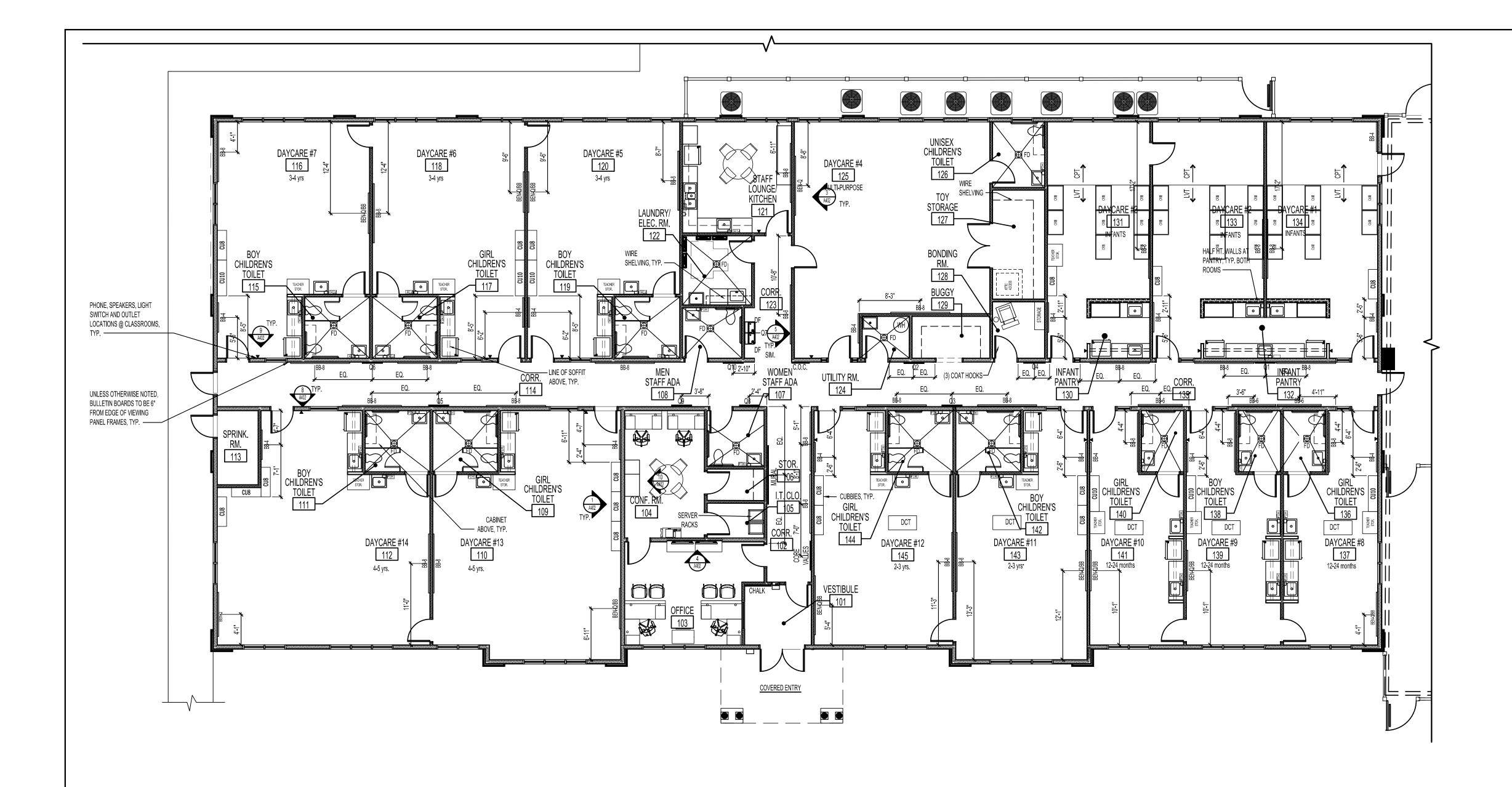
Project: LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

<u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

Lot: Zone: -

SHEET TITLE: LICENSING FLOOR PLAN, LICENSING CHART, & NOTES

	03/29/2024	ISSUED FOR PERMIT				
Rev.#	Date	Remarks				
JOB NUMBER: 20		022-01.09				
DATE: 10		10/07/2022				
DRAWN BY: JA		AM/KM				
CHECKED BY:		AM				



FURNITURE FLOOR PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- 1. SEE DWG. G002 FOR BUILDING CODE INFORMATION.
- 2. SEE DWG. G005 FOR GENERAL CONDITIONS.
- 3. SEE DWG. A-100 FOR CONSTRUCTION PLAN.
- SEE DWG. A-400 FOR TOILET CABINETRY AND ACCESSORIES.
 SEE DWG. A-401 FOR TYPICAL CABINETRY AND ACCESSORIES.
- 6. SEE DWG. A-402 FOR CUBBIES, EQUIPMENT AND ADDITIONAL ELEVATIONS AND DETAILS.
- 7. SEE DWG. A-404 FOR INTERIOR ELEVATIONS.
- CONTRACTOR TO INSTALL ARTWORK. CONTRACTOR TO COORDINATE FINAL LOCATIONS WITH LIGHTBRIDGE ACADEMY. ARTWORK PROVIDED BY LIGHTBRIDGE ACADEMY.



IS NOW COLLIERS ENGINEERING & DE ARCHITECT OF RECORD:

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Building D, Suite 240
Fairfield, New Jersey 07004
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www.colliersengineering.com

Bergmann Architectural Associates, Inc.



NOT VALID FOR CONSTRUCTION WITHOUT SEAL



Project:

LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

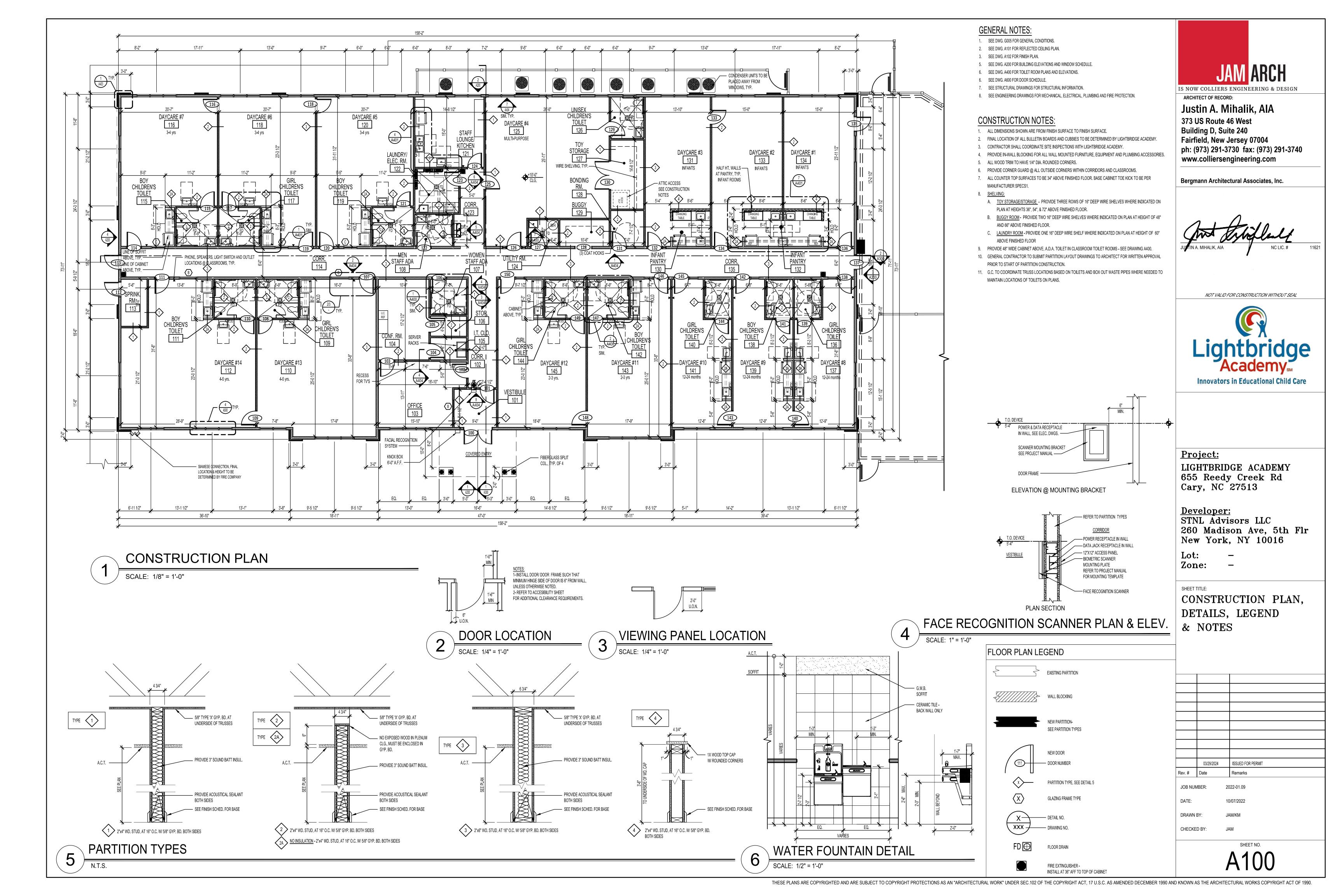
Developer:
STNL Advisors LLC
260 Madison Ave, 5th Flr
New York, NY 10016

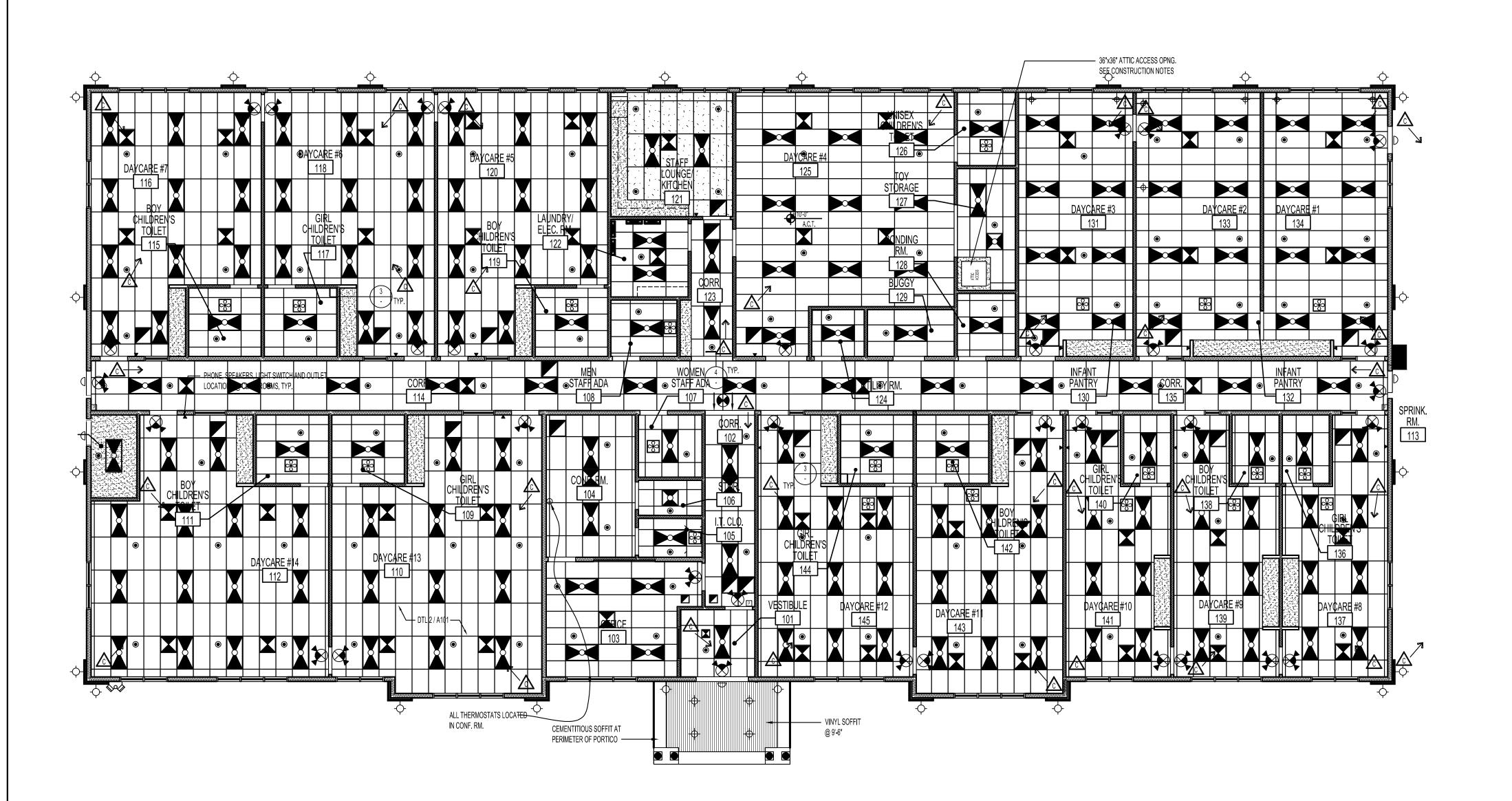
Lot: Zone:

SHEET TITLE:

FURNITURE FLOOR PLAN & NOTES

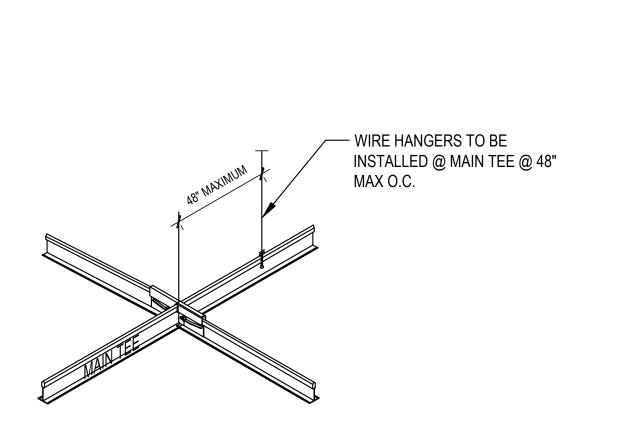
URNIT	JRE PLAN LEGEND			
BB-4	BULLETIN BOARD - 4'x4'			
BB-'X'	BULLETIN BOARD (X' = LENGTH OF BULLETIN BOARD IN FEET)			
BEN-Q/B.B.	BULLETIN BOARD (3'-3"x5'-6") INSTALLED; WIRING FOR FUTURE INTERACTIVE BENQ BOARD INSTALLED			
BEN-Q	INTERACTIVE BENQ BOARD			
CU8	CUBBY UNIT - 8 CUBBIES			
CU10	CUBBY UNIT - 10 CUBBIES			
TEACHER STOR.	TEACHER STORAGE CABINET		03/29/2024	ISSUED FOR PERMIT
CRIB	INFANT CRIB	Rev.#	Date	Remarks
DCT	DIAPER CHANGING TABLE	JOB NUM	MBER: 20	022-01.09
C.O.C.	CIRCLE OF CARE GRAPHIC	DATE:	10	0/07/2022
MURAL	MURAL	DRAWN	BY: J	AM/KM
Q	QUOTE - SEE PROJECT MANUAL			
CORE VALUES	CORE VALUES	CHECKE	D BY: J	AM
CHALK	CHALK BOARD - 4'X4'		_	SHEET NO.
PTH	PAPER TOWEL HOLDER			G103
П	SOAP DISPENSER		•	



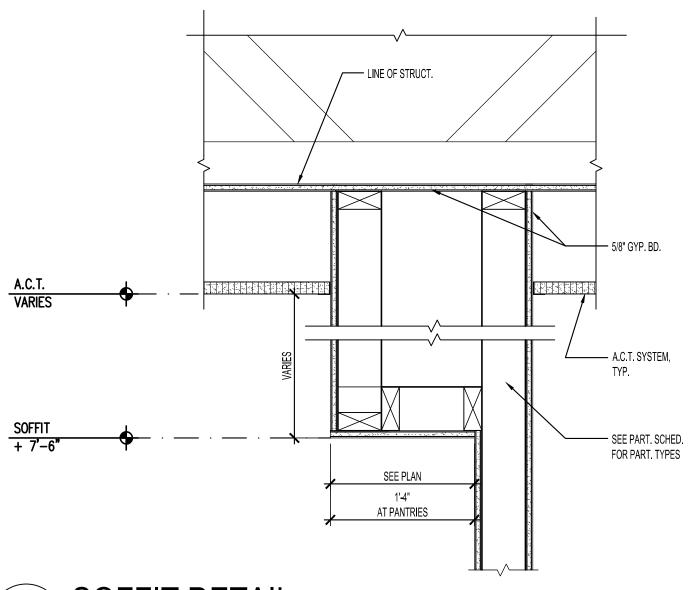


REFLECTED CEILING PLAN

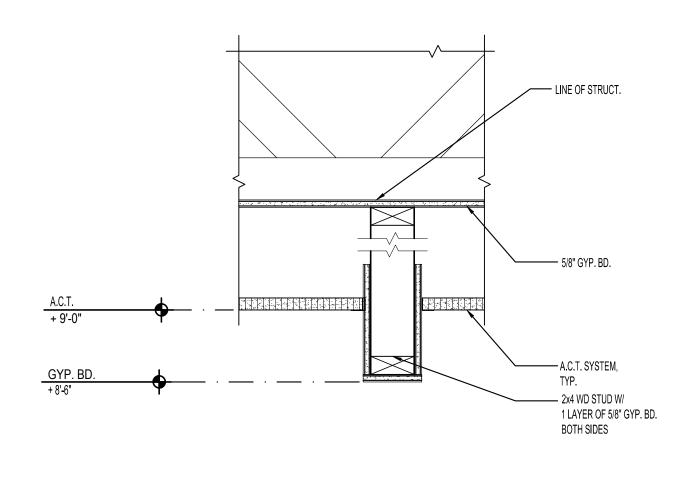
SCALE: 1/8" = 1'-0"



ACOUSTICAL CEILING DETAIL SCALE: N.T.S.







SOFFIT DETAIL SCALE: 1 1/2" = 1'-0"

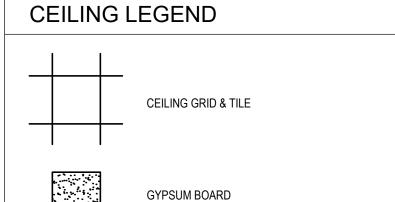
GENERAL NOTES: 1. SEE DWG. A100 FOR FLOOR PLAN.

- 2. SEE DWG. A102 FOR FINISH PLAN. 3. SEE ENGINEERING DRAWINGS FOR MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION.

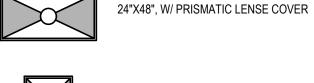
CONSTRUCTION NOTES:

- 1. ALL GYPSUM BOARD CEILINGS AND SOFFITS ARE TO BE PAINTED, SEE FINISH PLAN FOR COLOR. 2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK ABOVE CEILING AND
- NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLING CEILING GRID. 3. RETAINING CLIPS ARE TO BE USED ON CEILING IN VESTIBULE.
- 4. 36" x 36" ATTIC ACCESS WITH 30" MIN. CLEAR HEADROOM. HATCH SHALL HAVE R-10 MIN. INSULATION & WEATHERSTRIPPED.

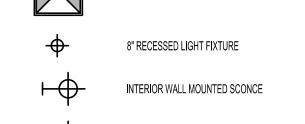








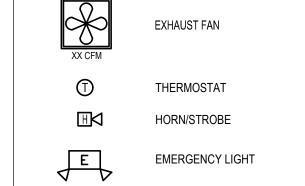
24"X24", W/ PRISMATIC LENSE COVER

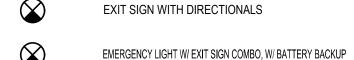


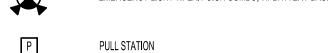




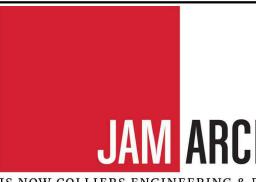












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Justin A. Mihalik, AIA 373 US Route 46 West **Building D, Suite 240** Fairfield, New Jersey 07004 ph: (973) 291-3730 fax: (973) 291-3740 www.colliersengineering.com

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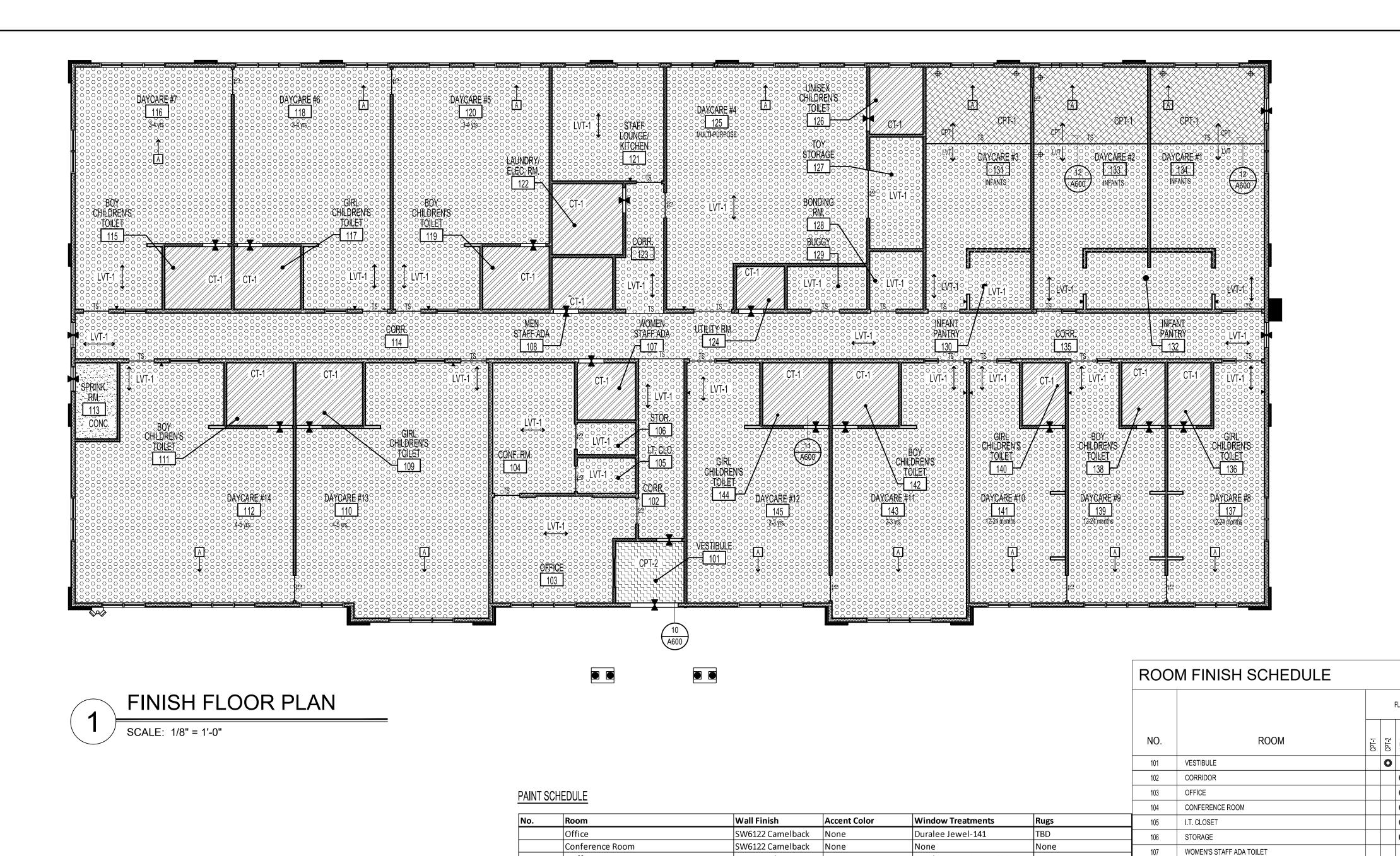
Project: LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

<u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

Lot: Zone:

SHEET TITLE: REFLECTED CEILING PLAN, DETAILS, LEGEND & NOTES

	03/29/2024	ISSUED FOR PERMIT			
ev. #	Date	Remarks			
JOB NUMBER: 2		022-01.09			
DATE:		0/07/2022			
DRAWN BY:		JAM/KM			
CHECKED BY:		AM			
	SHEET NO.				



Staff Lounge

Bonding Room 1 Non Mobile Infant Suite

2 Non Mobile Infant Suite

3 Non Mobile Infant Suite

4 Teal Turtles-Multipurpose

Yellow Ducks

5 Blue Horses

7 Grey Elephants

12 Khaki Kangaroos

13 Green Frogs

14 Brown Bears

Laundry

LVT-1

CONC.

GYP. BD.

LUXURY VINYL TILE

24"x48" VINYL-COVERED GYPSUM

CONCRETE

GYPSUM BOARD

24"x48" A.C.T.

Adult Toiletrooms

Halls/closets, Children's Toilet, Toy

Storage, Utility Room, Buggy, and Storage

Door Frames, Vision Panels, Chair Rail,

Window Trim and Sills, and Bulletin Board | SW7008 Alabaster

8 Purple Cats

9 Goldfish

10 Red Birds 11 Orange Giraffes SW7621 Silvermist None

SW6106 Kilim Beige SW6219 Rain

SW6106 Kilim Beige | SW6219 Rain

SW6106 Kilim Beige SW6219 Rain

SW6106 Kilim Beige SW6283 Thistle

SW6106 Kilim Beige | SW6109 Hopsack

SW6106 Kilim Beige None

SW6106 Kilim Beige None

SW7621 Silvermist None

L.V.T.

UNFIN.

GRAN.

SW6106 Kilim Beige | SW6327 Bold Brick | tbd

SW6106 Kilim Beige | SW6472 Composed | Duralee Seaglass-619

SW6106 Kilim Beige | SW7613 Aqua Sphere | Duralee Blue Yellow-542

SW6106 Kilim Beige | SW6380 Humble Gold | Duralee Blue Yellow-542

SW6106 Kilim Beige | SW7621 Silvermist | Duralee Aqua Cocoa-680

SW6106 Kilim Beige | SW6388 Gold Fleece | Duralee Sundance-346

SW6106 Kilim Beige | SW6340 Baked Clay | Duralee Sundance-346

SW6106 Kilim Beige | SW7728 Green Sprout | Duralee Seaglass-619

LUXURY VINYL TILE

VINYL BASE - SEE NOTE #10

UNFINISHED

CERAMIC TILE

GRANITE

SW6106 Kilim Beige | SW6122 Camelback | Orange Fabric (Lightbridge)

GENERAL NOTES:

- 1. SEE DWG. A100 FOR CONSTRUCTION PLAN.
- 2. SEE DWG. A101 FOR REFLECTED CEILING PLAN.
- 3. SEE DWG. A600 FOR DOOR SCHEDULE.
- 4. CONTRACTOR TO COORDINATE LOCATION OF ACCENT WALL WITH LIGHTBRIDGE
- 5. PROVIDE TRANSITION STRIPS AT DOORWAYS, ALIGN WITH THE FACE OF THE ROOM SIDE DOOR FRAME, SEE DWG. A600.
- 6. CONTRACTOR SHALL INSTALL CARPETING AT THE END OF CONSTRUCTION TO
- AVOID CONSTRUCTION DUST. 7. SEE SPECIFICATION FOR FINISHES.

CEILING HEIGHT

(TO BE VERIFIED IN

9'-0"

9'-0"

9'-0"

9'-0"

9'-0"

9'-0"

9'-0"

9'-0"

9'-0"

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9'-0"

9'-0"

REMARKS

INSTALL CEILING TILE CLIPS

BASE

WALLS

CEILING

- 8. ALL WOOD TRIM TO HAVE 1/4" DIA. ROUNDED CORNERS.
- 9. PROVIDE CORNER GUARD @ ALL OUTSIDE CORNERS WITHIN CORRIDORS AND
- 10. VINYL WALL FLOOR BASE ALL INSIDE & OUTSIDE CORNERS ARE TO BE PREFORMED, SEE SPECIFICATIONS.
- ALIGNED WITH COVE.

11. INFANT ROOMS - TOELESS WALL BASE IN AREA OF CARPET. TOELESS BASE TO BE

12. WALL AND CEILING FINISHES SHALL COMPLY WITH SECTION 803 & TABLE 803.11 AND FLOOR FINISHES SHALL COMPLY WITH SECTION 804 OF NCBC.

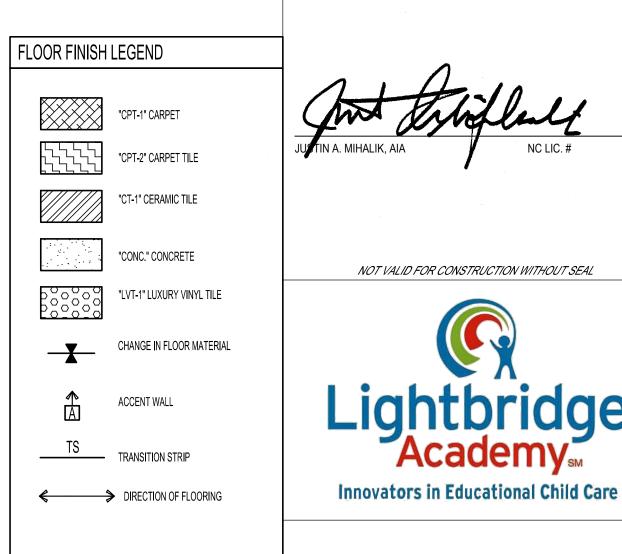


IS NOW COLLIERS ENGINEERING & DESIGN ARCHITECT OF RECORD:

Justin A. Mihalik, AIA 373 US Route 46 West **Building D, Suite 240** Fairfield, New Jersey 07004 ph: (973) 291-3730 fax: (973) 291-3740

Bergmann Architectural Associates, Inc.

www.colliersengineering.com



Project:
LIGHTBRIDGE ACADEMY
655 Reedy Creek Rd
Cary NC 27513

<u>peveroper.</u>

655 Reedy Creek Rd Cary, NC 27513	
Developer:	

	STI 260) Madi w York ::	risors LLC son Ave, 5th Flr k, NY 10016 -
	SC	NISH F	LOOR PLAN, LES, LEGEND,
GYP. BD. @ PANTRY AREA GYP. BD. @ PANTRY AREA PROVIDE F.R.P. WAINSCOT 72" HIGH ON WET WALLS C.T. IN AREA OF DRINKING FOUNTAINS GYP. BD. @ DRINKING FOUNTAINS, SEE DTL.6/A100 PROVIDE F.R.P. WAINSCOT 72" HIGH ON WET WALLS			
-			
-			
-			
-			
-			
GYP. BD. @ PANTRY AREA			
SEE NOTE #11			
GYP. BD. @ PANTRY AREA			
SEE NOTE #11		03/29/2024	ISSUED FOR PERMIT
€EE NOTE #11	Rev.#	Date	Remarks
GYP. BD. @ PANTRY AREA	JOB NU	MBER:	2022-01.09 10/07/2022
·		I DV:	JAM/KM
GYP. BD. @ PANTRY AREA	DRAWN	וטו.	OMINI MINI
·	CHECK	ED BY:	JAM
GYP. BD. @ PANTRY AREA			
-			SHEET NO.
GYP. BD. @ PANTRY AREA			Λ 1 Ω 2
•			A102
GYP. BD. @ PANTRY AREA			

[1 1 1 1 1 1	1 1 1 1 1		l						-					
		SW7007 Ceiling Br	right			132	INFANT PANTRY		0			0		
Ceiling	Soffits	White	None	None	None	133	DAYCARE #2	0						0
FINISH LEGEND	•	POOM	FINISH ABREV	ZIATIONIS		134	DAYCARE #1	0	0		0	0	0	0
FINISH LEGEND		ROOM	FINISH ADREV	MATIONS		135	CORRIDOR		0			00		0
TYPE	DESCRIPTION					136	GIRL CHILDREN'S TOILET			0		00		0
P-1 PAINT, SEE PAINT SCHED	DULE	FLOOR	WALL	137	DAYCARE #8		0		00	00		0 0		
CPT-1 CARPET		GRAN.	GRANITE	C.T.	CERAMIC TILE	138	BOY CHILDREN'S TOILET			0	0	00		0
CPT-2 CARPET TILE		CPT.	CARPET	P-1	PAINT	139	DAYCARE #9		0		00	00	0	0 0
CT-1 CERAMIC TILE - 12"x12"		C.T. WD.	CERAMIC TILE WOOD	VINYL	VINYL WALL COVERING	140	GIRL CHILDREN'S TOILET			0	0	00		0

ACOUSTICAL CEILING TILE

Duralee Aqua Cocoa-680

Happy Spa-Michael Textiles

Happy Spa-Michael Textiles

Happy Spa-Michael Textiles

Duralee Jewel-141

Duralee Aqua Cocoa-680

CEILING

None

None

None

None

Polka Dot ABC Carpet

|Alphabet Blocks-

Natures Colors

#CFK11726 (6x9) or

CFK11728 (8x12)

Pinwheel #1625

#CFK3802 (8x12)

Fishin' Fun #1498

Animal Phonics #1623

Jungle Friends #1579

Give the Planet a Hug

#4417 (7'-8"x10'-10")

None

None

The Pond #CFK3036

oddler Alphabet Block

lumpty Dumpty #1476

1731B -02 (3'-10"x5'-4")

108 MEN'S STAFF ADA TOILET

109 GIRL CHILDREN'S TOILET

111 BOY CHILDREN'S TOILET

115 BOY CHILDREN'S TOILET

117 GIRL CHILDREN'S TOILET

119 BOY CHILDREN'S TOILET

110 DAYCARE #13

112 DAYCARE #14

114 CORRIDOR

116 DAYCARE #7

118 DAYCARE #6

120 DAYCARE #5

123 CORRIDOR

124 UTILITY ROOM

125 DAYCARE #4

127 TOY STORAGE

128 BONDING ROOM

130 INFANT PANTRY

131 DAYCARE #3

141 DAYCARE #10

143 DAYCARE #11

142 BOY CHILDREN'S TOILET

144 GIRL CHILDREN'S TOILET

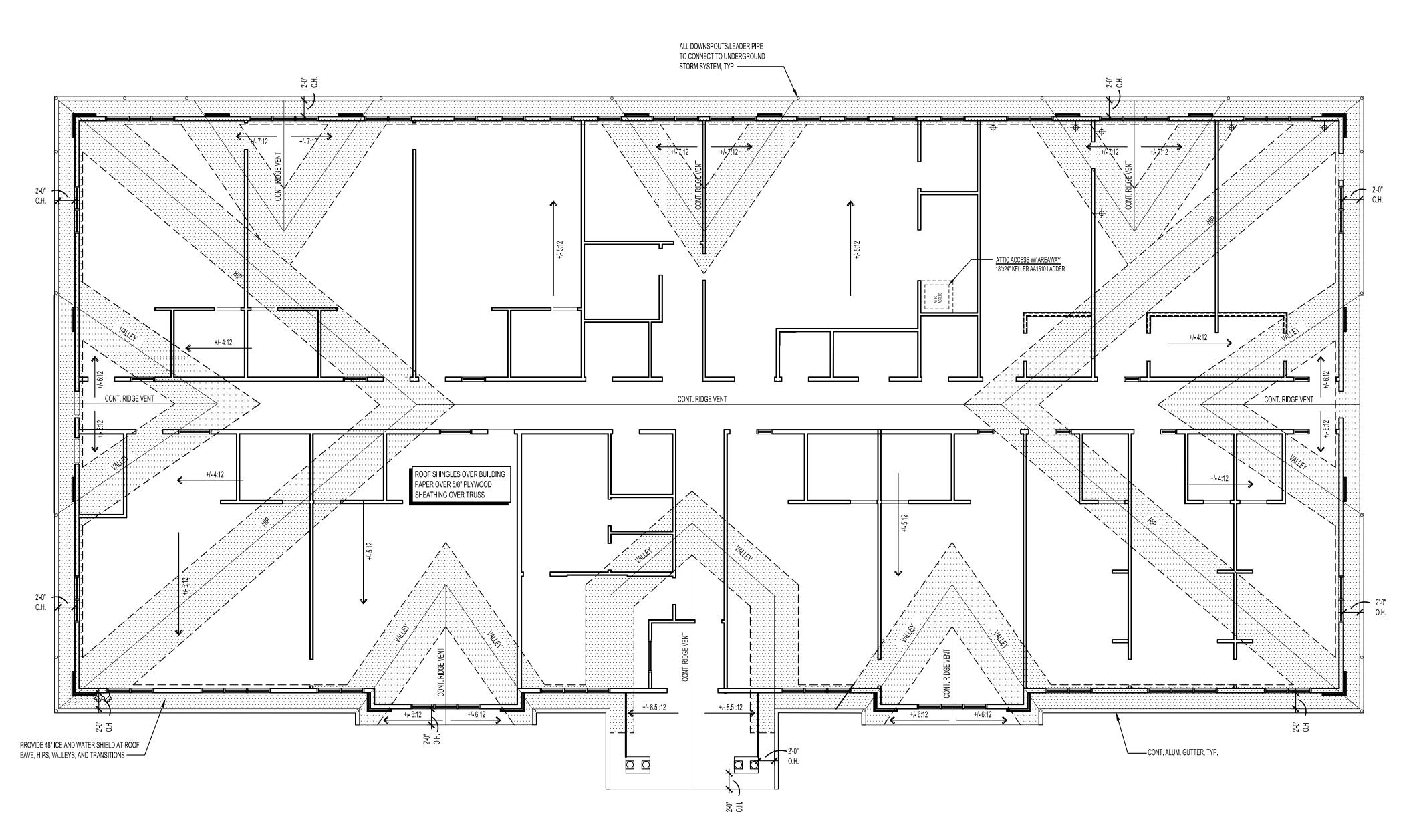
129 BUGGY

121 STAFF LOUNGE

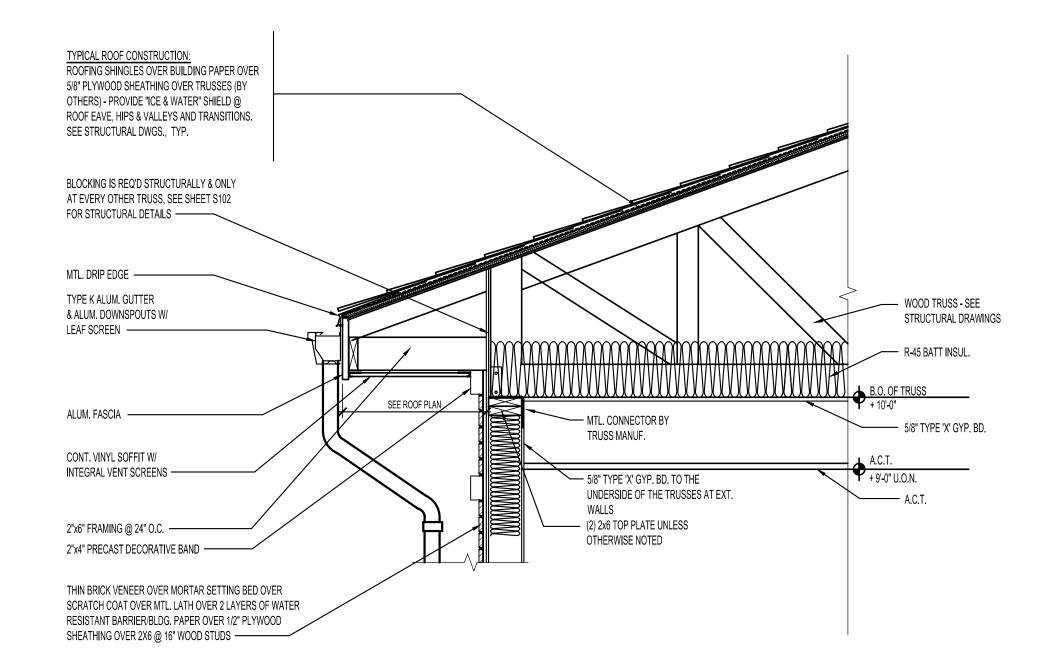
122 ELEC. RM./LAUNDRY

126 UNISEX CHILDREN'S TOILET

113 SPRINKLER ROOM



ROOF PLAN



EAVE DETAIL

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

GENERAL NOTES:

- 1. SEE DWG. A100 FOR CONSTRUCTION PLAN.
- 2. SEE STRUCTURAL DRAWINGS FOR ATTIC AND ROOF FRAMING
- 3. MECHANICAL, PLUMBING, AND ELECTRICAL SERVICE DESIGN TO BE PROVIDED BY THE CONTRACTOR.
- 4. REFER TO SPECIFICATIONS FOR ROOFING, FLASHING, AND RELATED MATERIALS

CONSTRUCTION NOTES:

- TRUSSES DESIGN TO BE PROVIDED BY A N.C. LICENSED PROFESSIONAL ENGINEER
- PROVIDE 3/4" PLYWOOD IN ATTIC FOR ACCESS TO MECHANICAL EQUIPMENT.
- 3. ATTIC ACCESS TO BE SIZED FOR LARGEST PIECE OF EQUIPMENT FOR FUTURE REPLACEMENT PER BUILDING CODE.
- 4. ALL PLUMBING WASTE VENT AND EXHAUST VENTS TO BE LOCATED TO THE REAR SIDE OF THE ROOF RIDGE.
- 5. CONTRACTOR SHALL COORDINATE LOCATIONS OF LEADER PIPES W/ SITE DRAINAGE
- 6. CONTRACTOR TO COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT WITH
- TRUSS MANUFACTURER.

 7. SPRINKLERS SHALL BE INSTALLED INTO THE ATTIC/ROOF STRUCTURE, SEE SPRINKLER DWGS
- 8. PER SECTION 1203.2 OF NCBC, ENCLOSED ROOF ATTIC SHALL HAVE CROSS VENTILATION. AN AIRSPACE OF NOT LESS THAN ONE INCH SHALL BE PROVIDED BETWEEN INSULATION AND ROOF SHEATHING. ROOF VENTILATION REQUIRED: ROOF AREA: 12,509 SQ.FT.
- 12,509 SQ.FT./300 = 41.69 SQ.FT. (6,003 SQ.IN.)
- 6,003 SQ.IN./2 = 3,001.5 SQ.IN. REQUIRED HIGH AND LOW

JAM ARCH

IS NOW COLLIERS ENGINEERING & DESIGN

ARCHITECT OF RECORD:

Justin A. Mihalik, AIA

373 US Route 46 West Building D, Suite 240 Fairfield, New Jersey 07004 ph: (973) 291-3730 fax: (973) 291-3740 www.colliersengineering.com

Bergmann Architectural Associates, Inc.



NOT VALID FOR CONSTRUCTION WITHOUT SEAL



Project:
LIGHTBRIDGE ACADEMY
655 Reedy Creek Rd
Cary, NC 27513

Developer:
STNL Advisors LLC
260 Madison Ave, 5th Flr
New York, NY 10016

Lot: Zone:

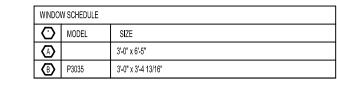
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ROOF PLAN, DETAILS & NOTES

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Rev.#	Date	Remarks
JOB NUMBER: 2		022-01.09
DATE: 1		0/07/2022
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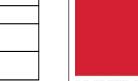
A103



	FINISH	SCHEDULE		
	0	DESCRIPTION	MANUFACTURER	COLOR
	(<u>-</u>	BRICK	COMMON BRICK	.25 GREYSTONE
	(2)	CULTURED STONE	UPCHURCH KIMBROUGH**	PIEL CLARA**
	<u>(3)</u>	PVC TRIM	TBD	WHITE
	F 4	PRECAST CONCRETE BAND	TBD	-
	(<u>+</u>)	STANDING SEAM METAL ROOF	PAC-CLAD	SNAP-CLAD - SLATE GRAY
,	NOTE: A	ALL MATERIALS ARE OF HIGH-	QUALITY, LONG-LASTING MASONRY MAT	TERIAL AND IS MORE THAN THE 75%

OF THE MINIMUM SURFACE AREA REQUIREMENT FOR COMMERCIAL AND MIXED-USE BUILDINGS.

**=CULTURED STONE TO BE VERIFIED WITH EXISTING SHOPPING CENTER CULTURED STONE FINISH



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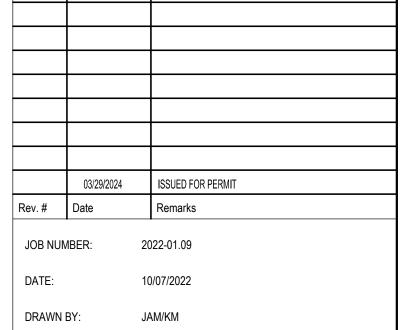


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New York, NY 10016

Lot: Zone:

BUILDING ELEVATIONS
SCHEDULES, DETAIL &
NOTES



CHECKED BY: JAM
SHEET N

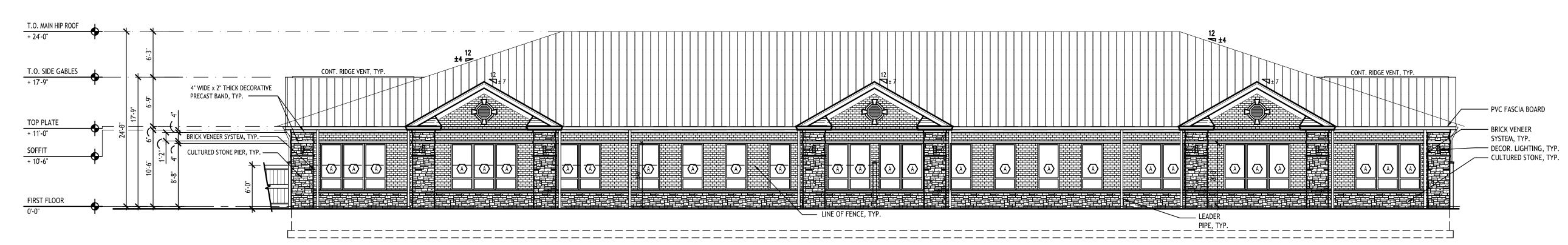
LEFT SIDE ELEVATION

SCALE: 1/8" = 1'-0"

— 22" OCTAGON GABLE VENT W/ KEYSTONES, COLOR TO T.O. MAIN HIP ROOF + 24'-0" BE WHITE, TYP. — STANDING SEAM METAL ROOF T.O. MAIN RIDGE — 4" WIDE x 2" THICK + 20'-2" DECORATIVE PRECAST BAND, TYP. T.O. SIDE GABLES CONT. RIDGE VENT, TYP CONT. RIDGE VENT, TY + 17'-9" — PVC FASCIA BOARD TOP PLATE + 11'-0" - BRICK VENEER SYSTEM, TYP. — DECOR. LIGHTING, TYP. — CULTURED STONE, TYP. -SIAMESE CONNECTION, FINAL LOCATION AND KNOX BOX AT 6'-0" A.F.F. HEIGHT TO BE DETERMINED BY FIRE COMPANY (BEHIND COLUMN AT WALL)—

FRONT ELEVATION

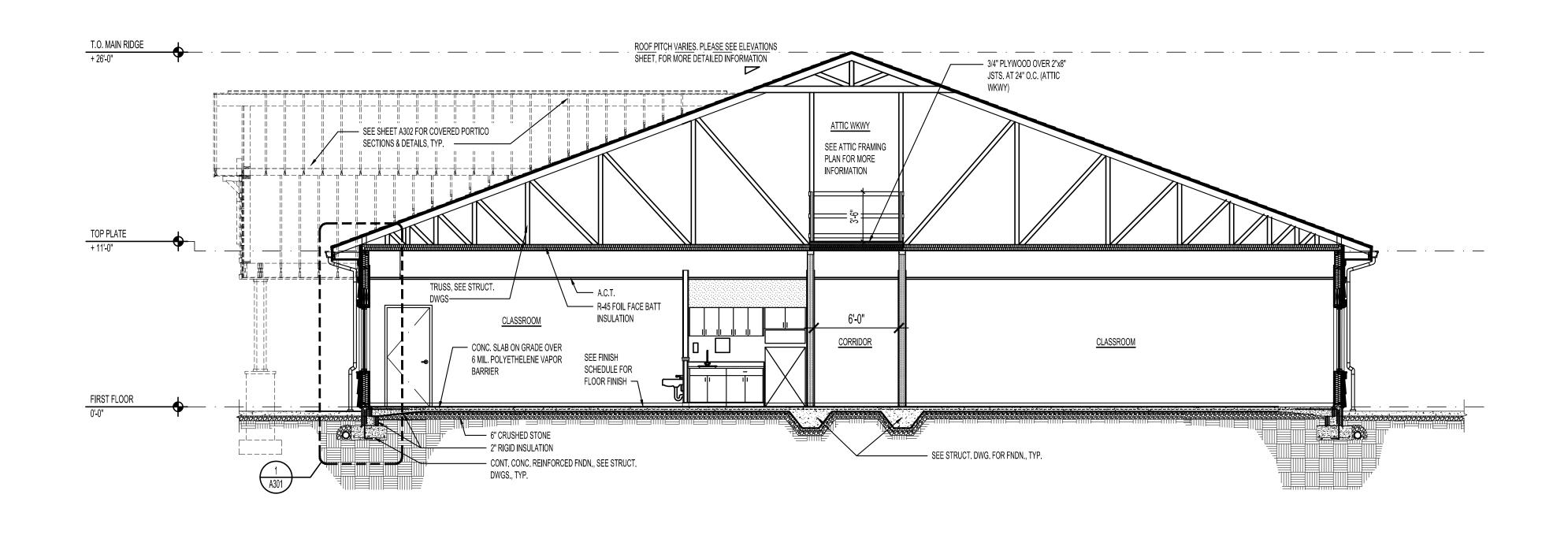
SCALE: 1/8" = 1'



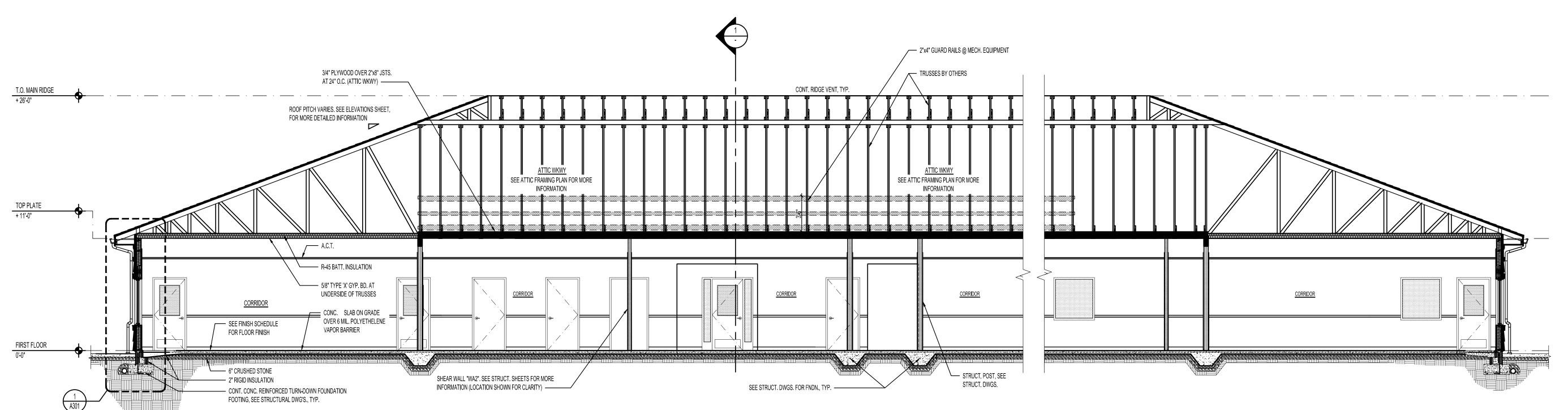
REAR ELEVATION

T.O. MAIN HIP ROOF T.O. MAIN RIDGE T.O. MAIN RIDGE + 20'-2" + 20'-2" CONT. RIDGE VENT, TYP. T.O. SIDE GABLES | CONT. RIDGE VENT, TYP. + 17'-9" — PVC FASCIA BOARD TOP PLATE - BRICK VENEER + 11'-0" SYSTEM, TYP. SOFFIT - DECOR. LIGHTING, TYP. SOFFIT + 10'-6" CULTURED STONE PIER, TYP. - CULTURED STONE PIER W/ LIMESTONE CAP, TYP. FIRST FLOOR FIRST FLOOR — VINYL FENCING @ PERIMETER OF PLAYGROUND, TYP. DECORATIVE LIGHTING, TYP. ——

RIGHT SIDE ELEVATIO







JAW ARCH
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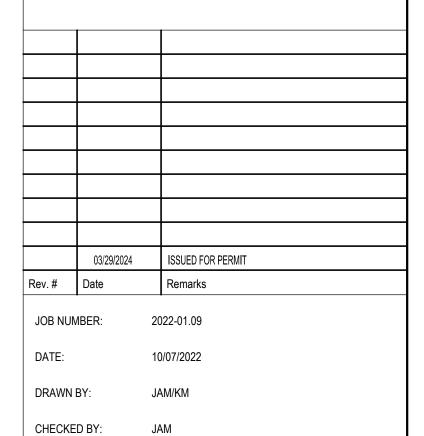
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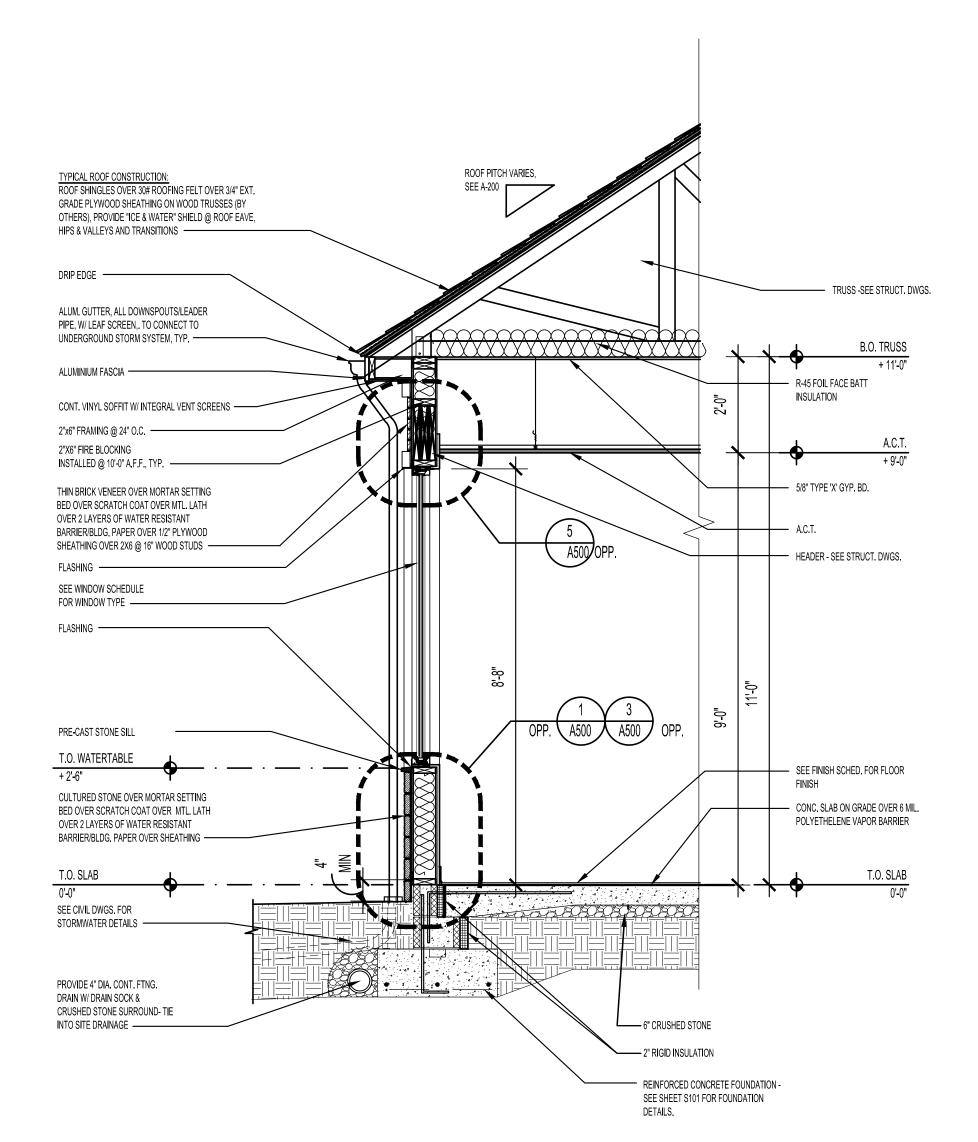
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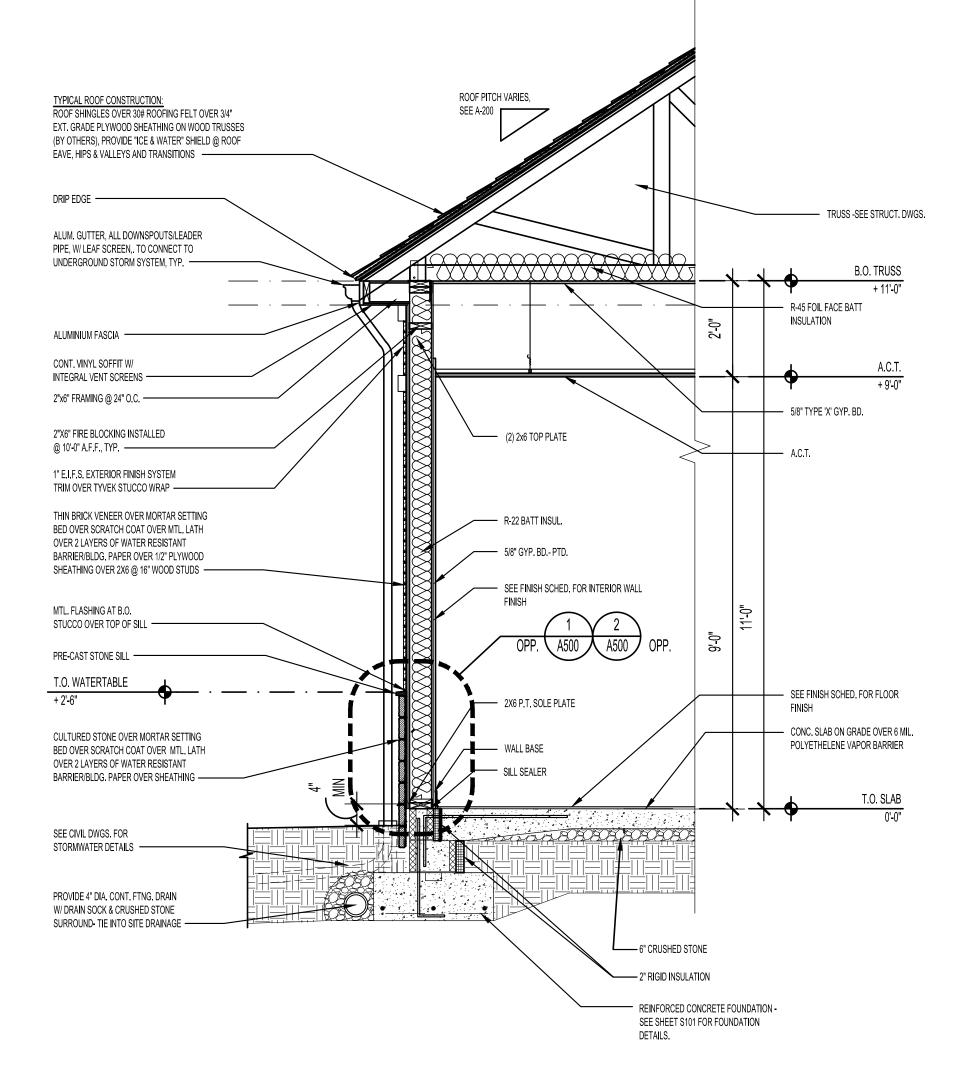
BUILDING SECTIONS



A300







2 WALL SECTION- TYPICAL

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



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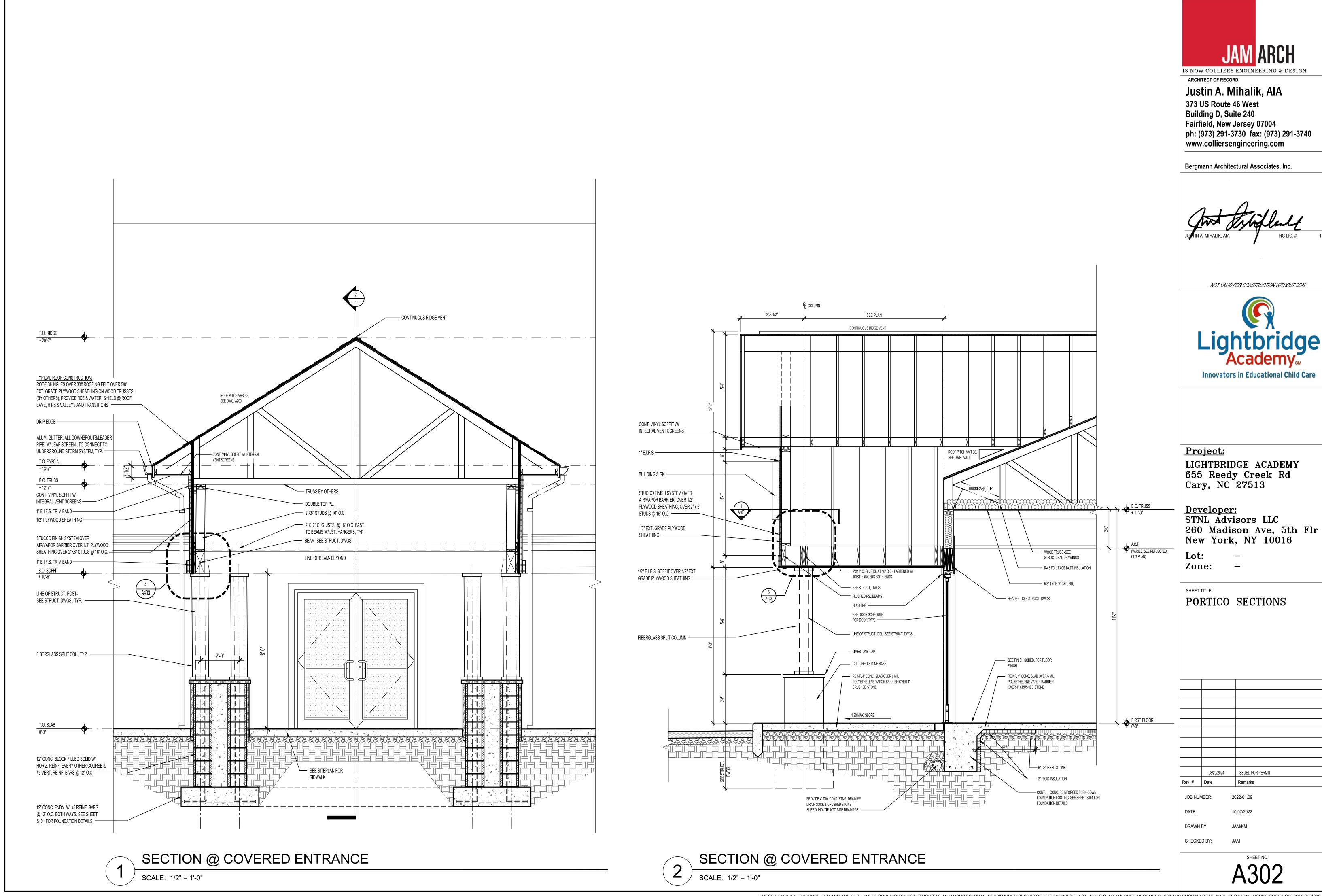
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WALL SECTIONS

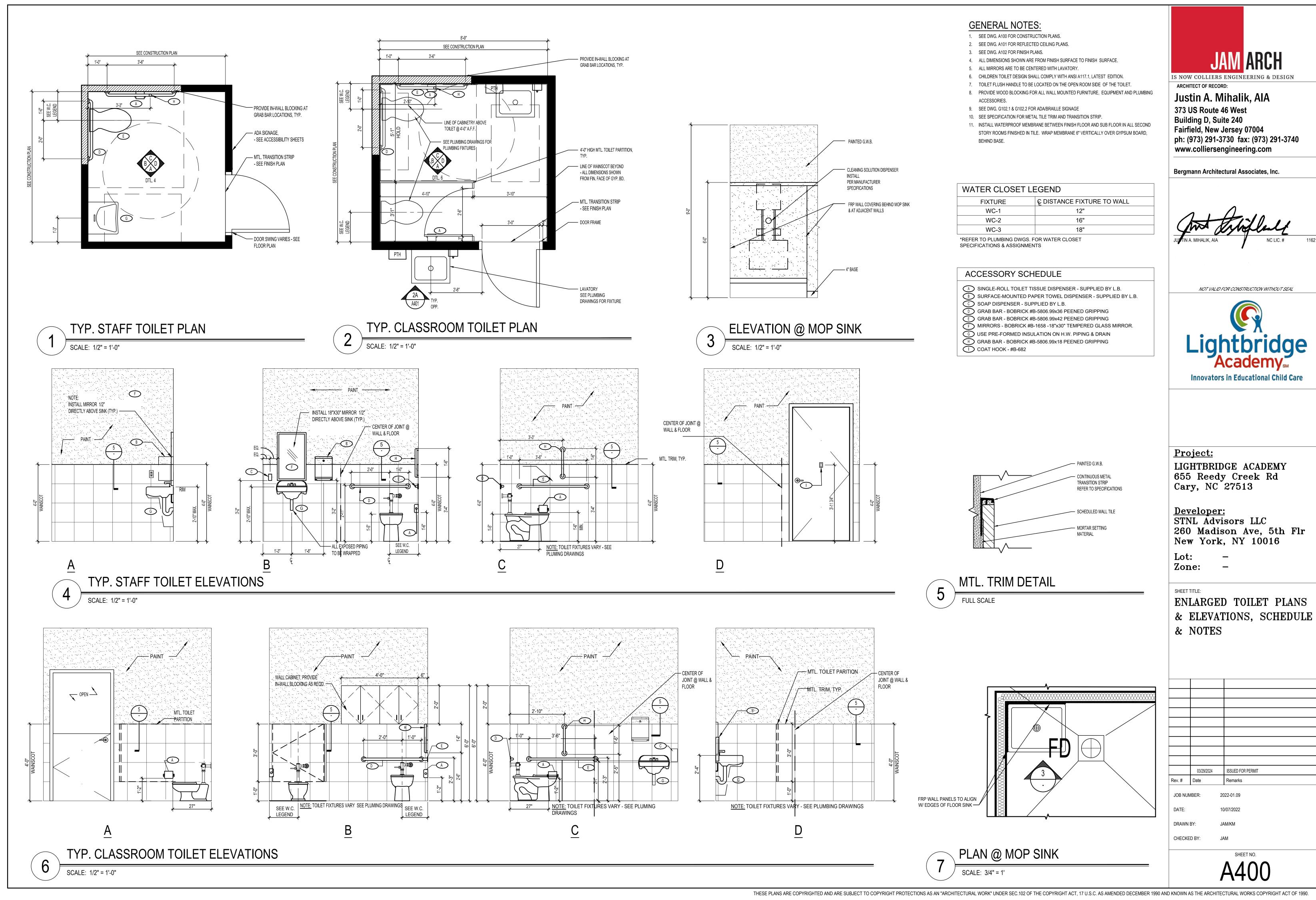
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	03/29/2024	ISSUED FOR PERMIT
Rev.#	Date	Remarks
JOB NUM	IBER: 20	022-01.09
DATE:	10	0/07/2022

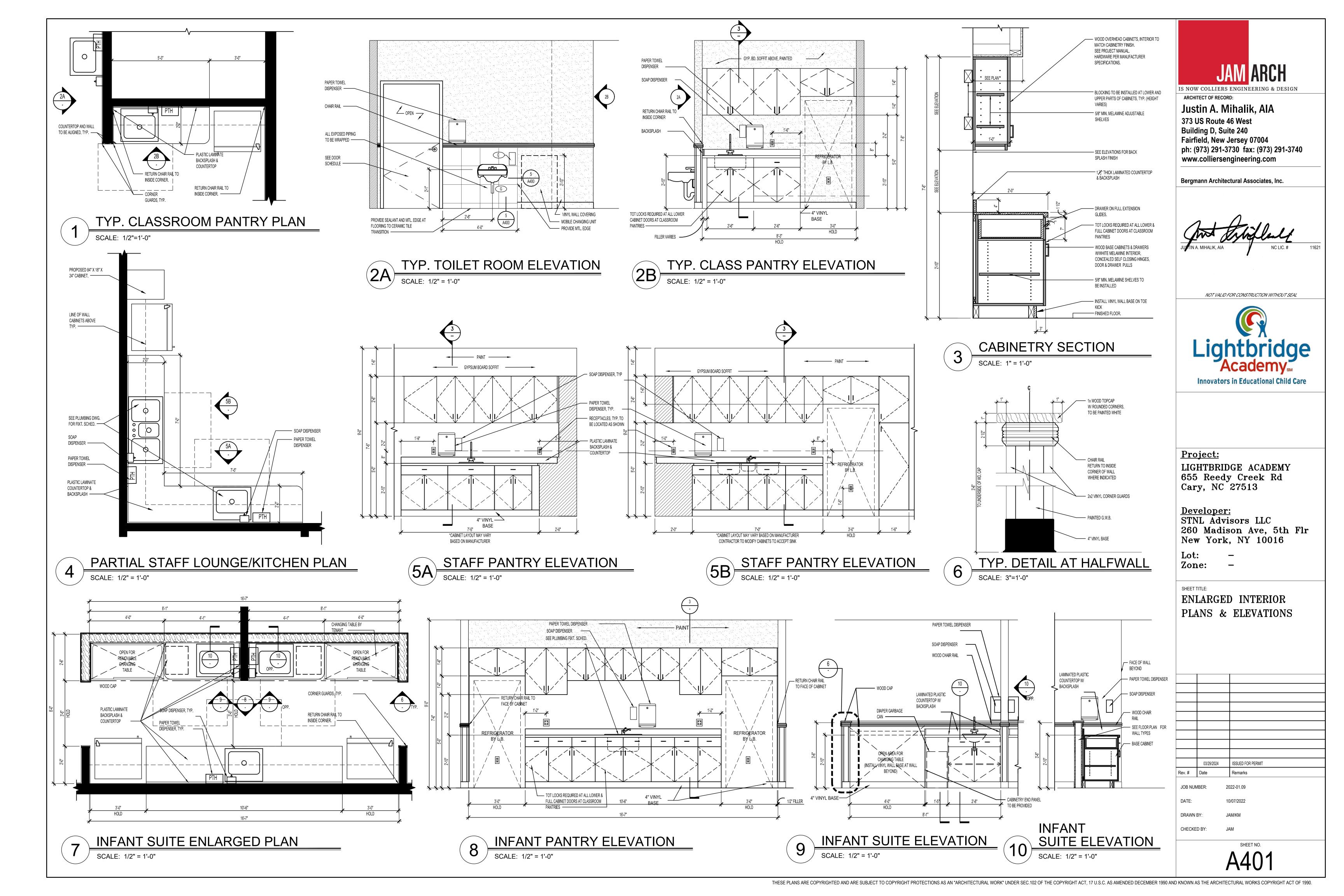
A301

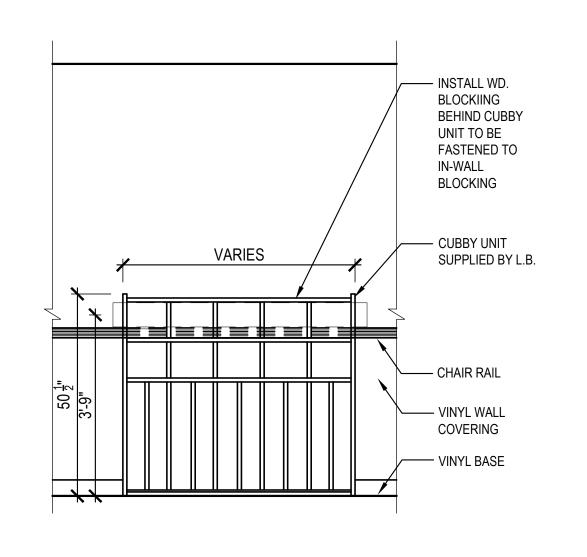
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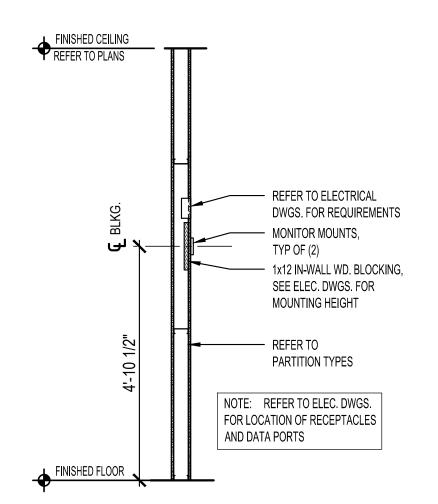




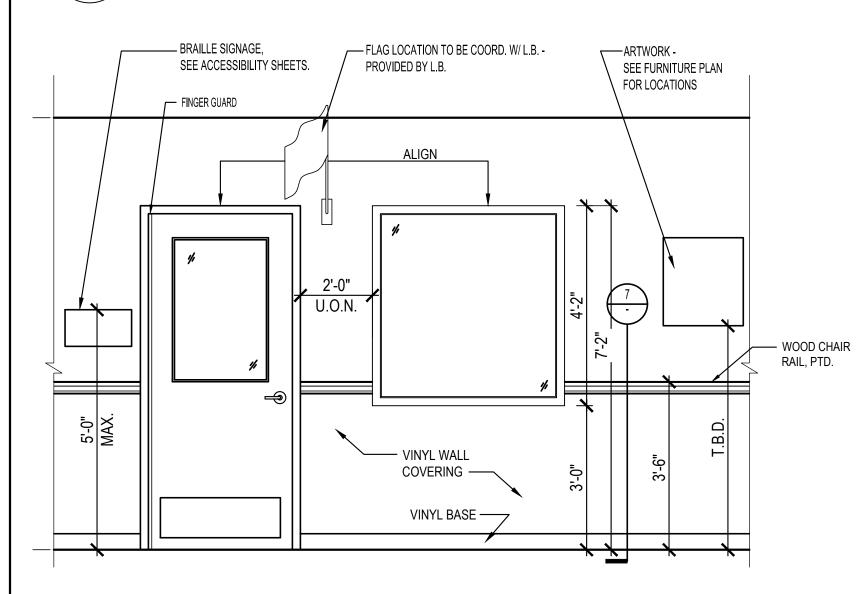


FLOOR CUBBY ELEVATION

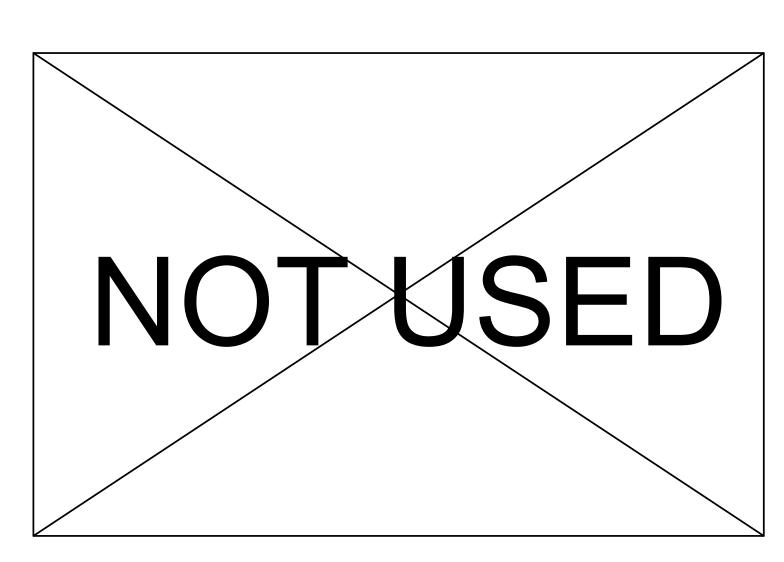
SCALE: 1/2" = 1'-0"



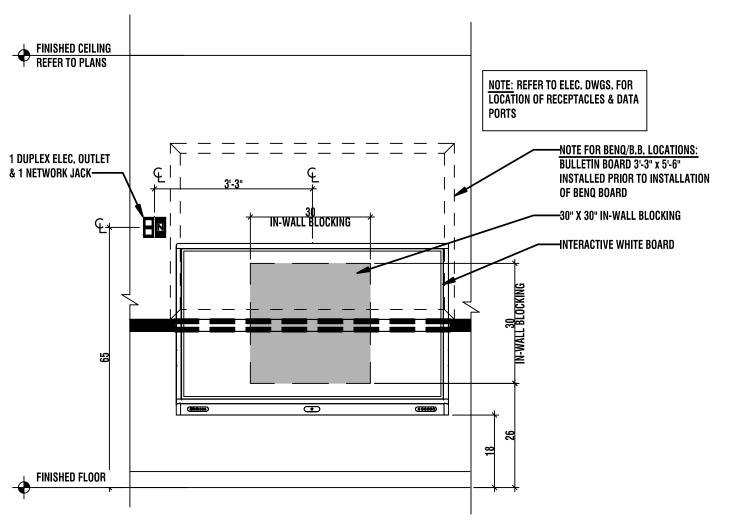




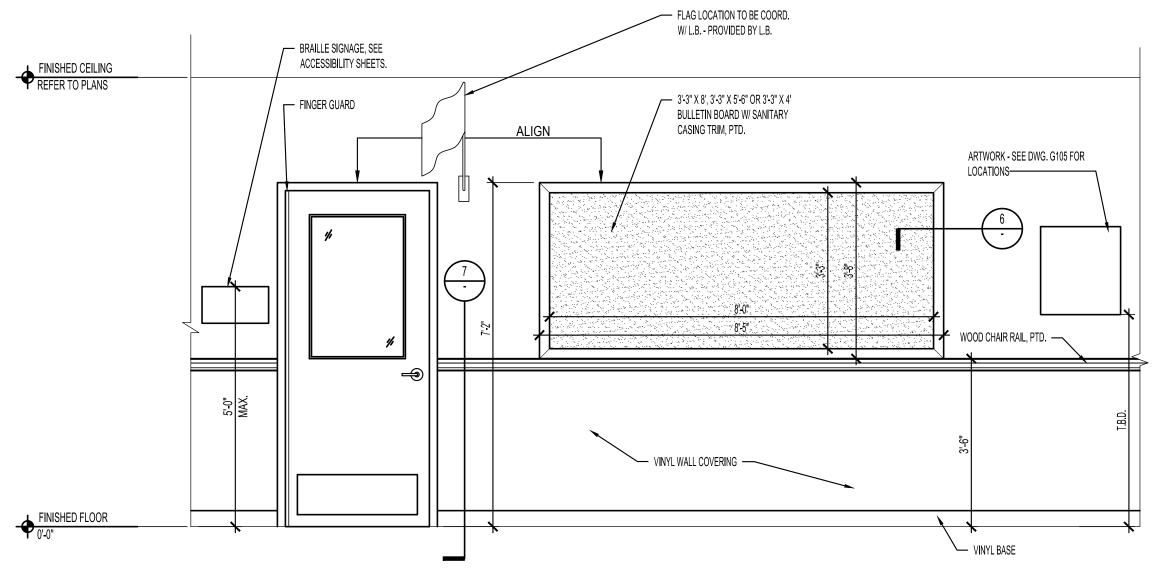
TYP. ELEVATION AT VIEWING PANEL SCALE: 1/2" = 1'-0"



NOT USED



WHITE BOARD ELEVATION SCALE: 1/2" = 1'-0"



BULLETIN BOARD ELEVATION

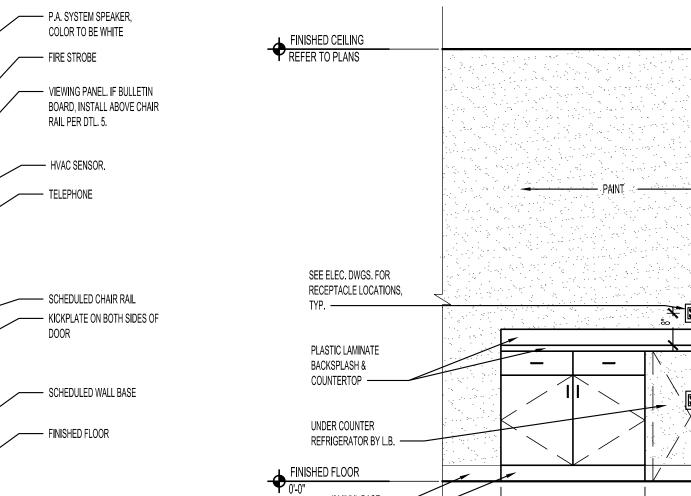
FINISHED CEILING
REFER TO PLANS

B.O. SPEAKER/STROBE + 7'-4"

FINGER GUARD —

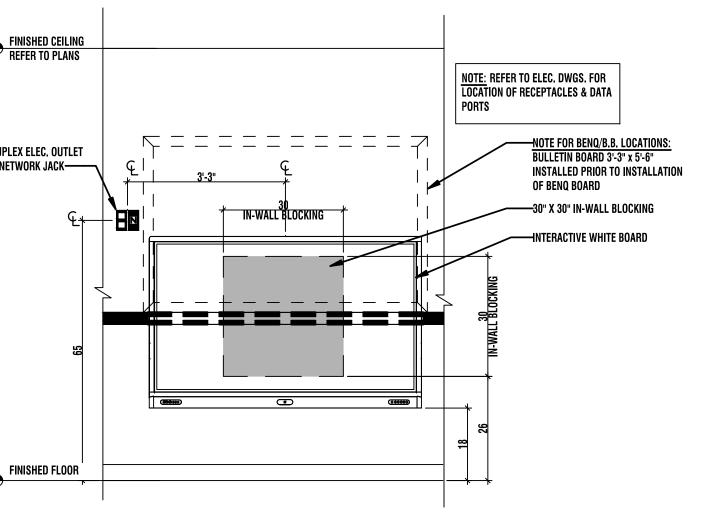
+ 5'-0"

- \$\frac{Q}{2} \text{ SWITCH PLATE} \\ + 4'-0"



TYP. ELEVATION AT CLASSROOM DOOR SCALE: 1/2" = 1'-0"

HOSPITALITY COUNTER ELEVATION SCALE: 1/2" = 1'-0"



WOOD CHAIR RAIL TRIM (PAINTED) — CONTRACTOR SHALL PROVIDE SAMPLE OF CHAIR RAIL FOR APPROVAL ----EXTEND WALL COVERING UNDER CHAIR RAIL ----VINYL WALL COVERING -EXTEND WALL COVERING UNDER VINYL BASE ----

WAINSOT SECTION

- 1/2" X 2 1/4" CLEAR PINE SANITARY CASING TO MATCH STEEL DOOR JAMBS

—1/2" X 3'-3" X 8', 3'-3" X 5'-6" OR 3'-3" X 4' HOMESOTE SHEET, PAINTED

1/2" X 3/4" CLEAR PINE PARTING STRIP

BULLETIN BD. DETAIL

ALL WOOD TRIM TO HAVE

SANDED ROUNDED EDGES

Innovators in Educational Child Care VINYL BASE ----GYP. BD. TO BE NO MORE THAN 1/4" ABOVE FLOOR —— Project: LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

> <u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

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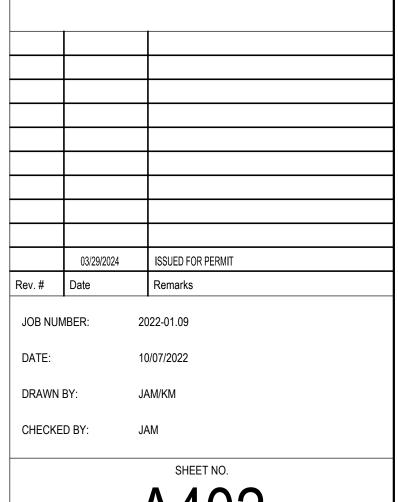
ARCHITECT OF RECORD:

373 US Route 46 West

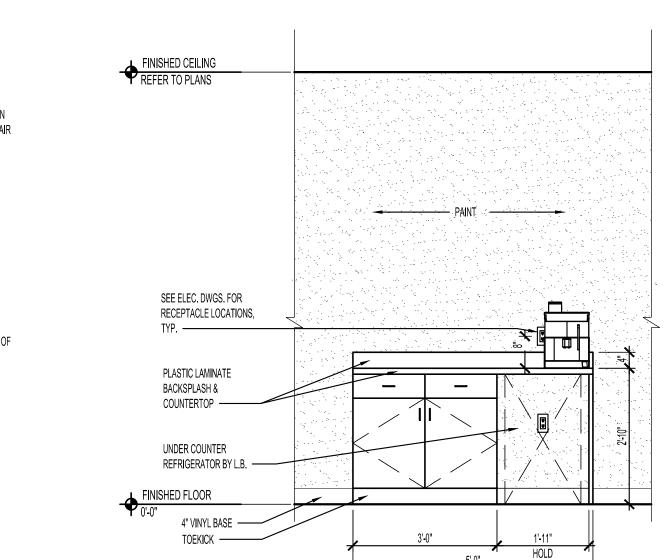
Building D, Suite 240

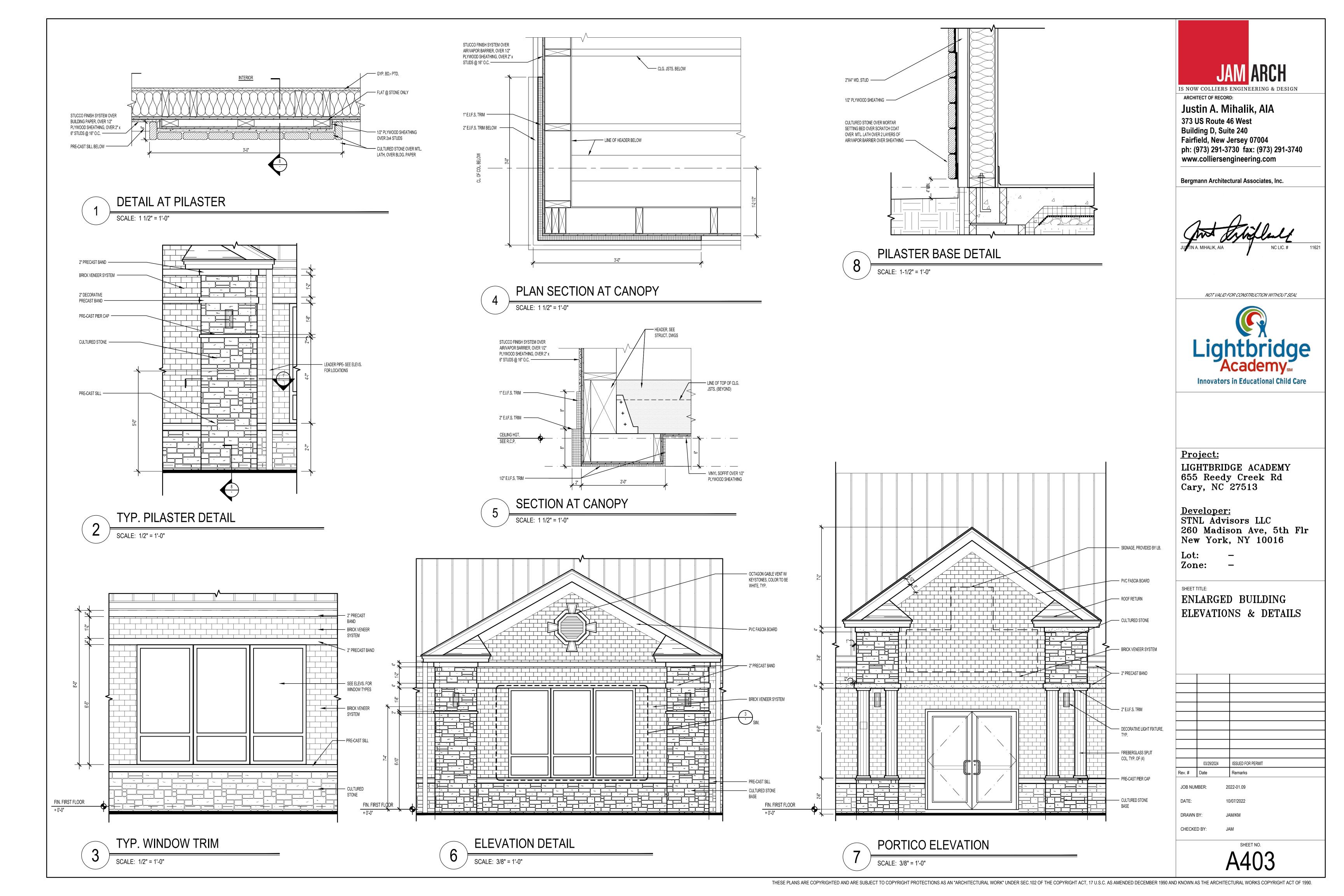
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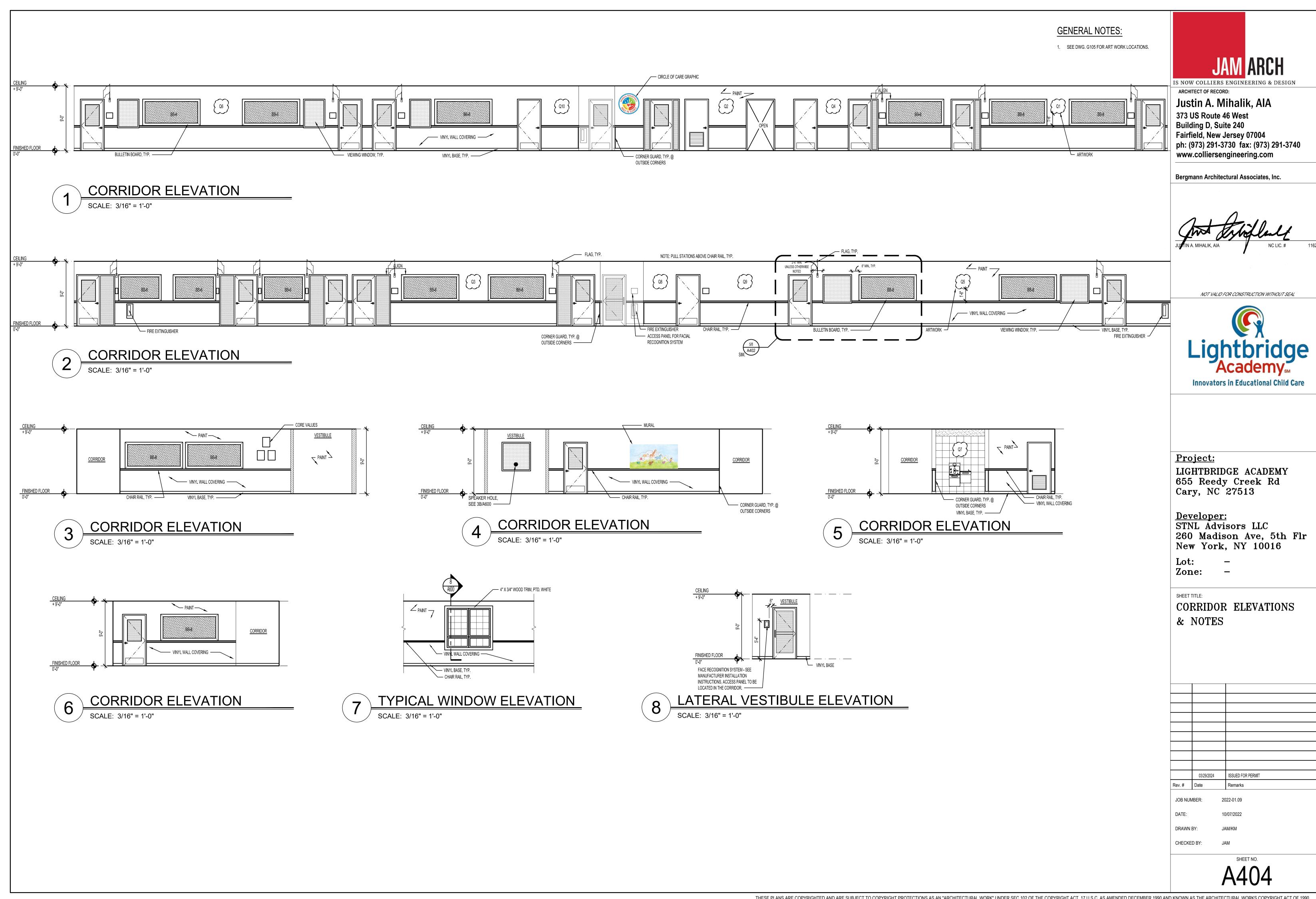
SHEET TITLE: CASEWORK ELEVATIONS & DETAILS

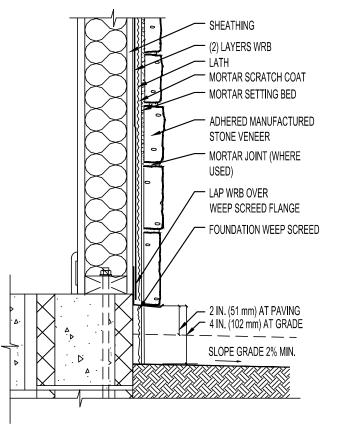


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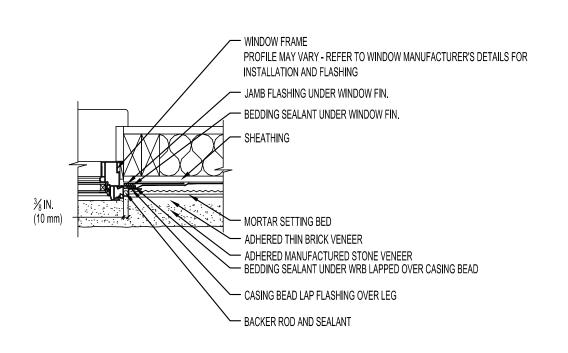






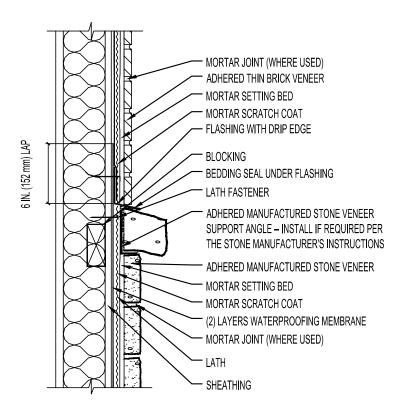
SECTION @ BASE

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



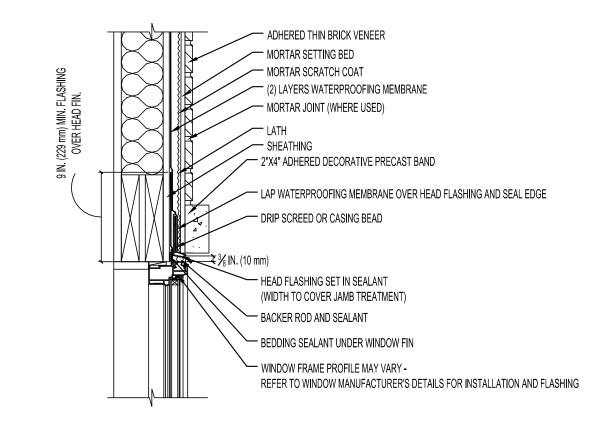
SECTION @ WINDOW JAMB

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



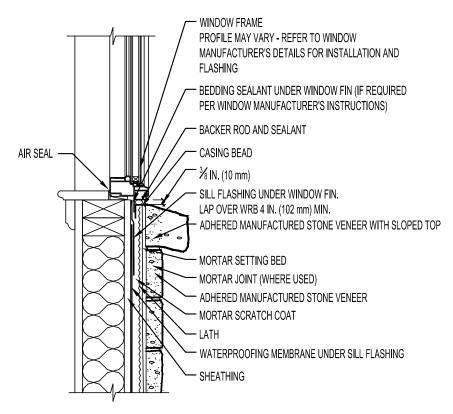
SECTION @ PRE-CAST SILL

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



SECTION @ WINDOW HEAD

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



SECTION @ WINDOW SILL

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



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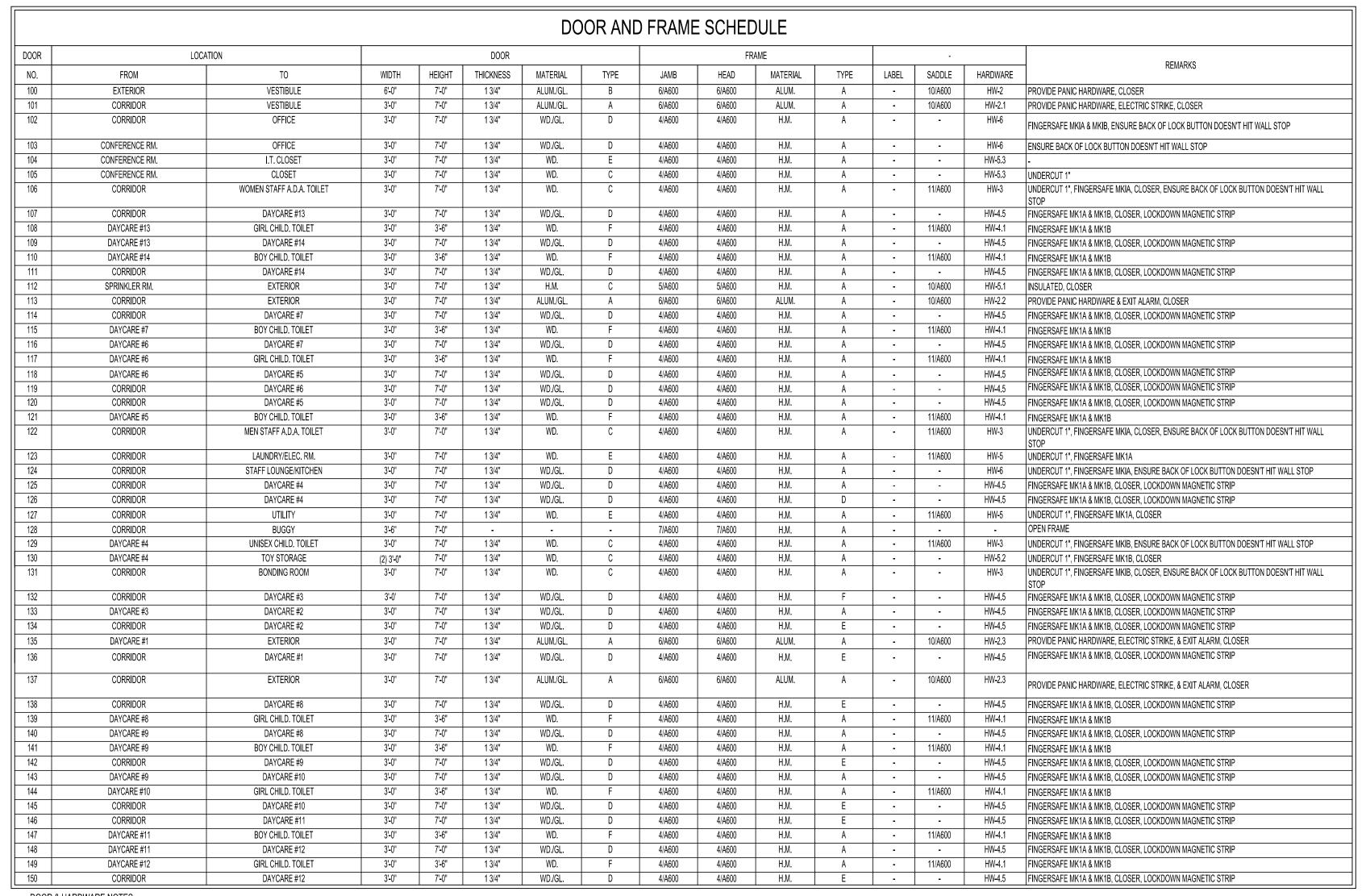
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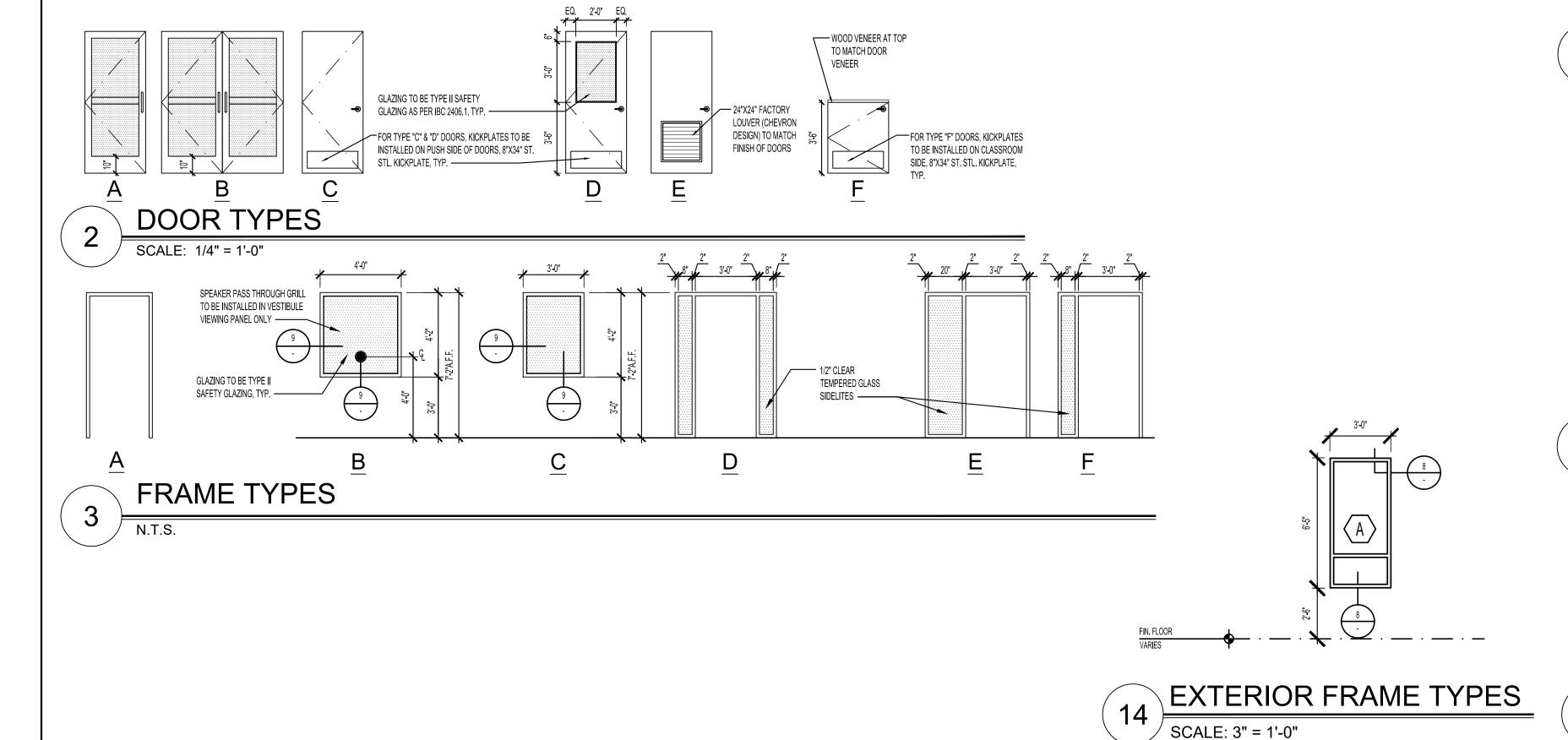
EXTERIOR DETAILS

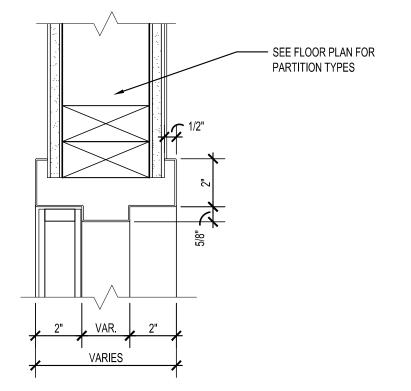
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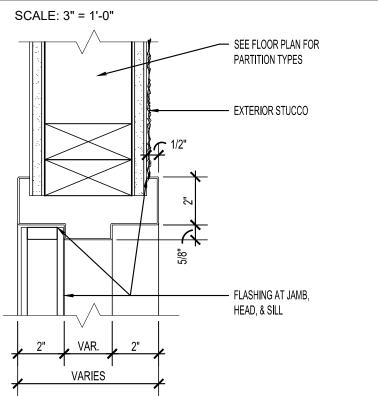


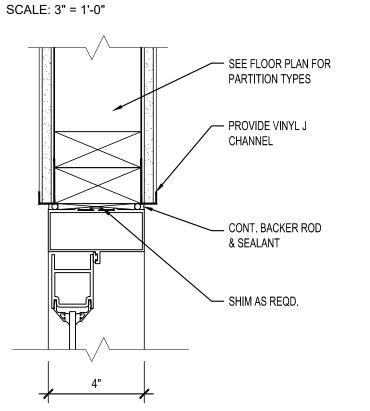
- ALL HARDWARE TO BE AS PER ICC/ANSI A117.1-404.2.6.
- CONTRACTOR TO COORDINATE DOOR FRAME THROAT WIDTHS WITH WALL THICKNESS.
- ALL EXTERIOR DOORS TO BE PROVIDED WITH FULL WEATHERSEALS. ALL EXTERIOR DOORS AND GLAZING TO BE INSULATED TYPE.
- ALL KICKPLATES TO BE ST. STL. ALL EXTERIOR DOORS (NOT STOREFRONT TYPE) TO RECEIVE KICKPLATES ON INTERIOR SIDE ONLY. ALL EXTERIOR DOORS FROM CLASSROOMS AND CORRIDORS, EXCEPT FOR MAIN ENTRY, TO RECEIVE CONTACT ALARM DEVICE, MODEL # 45174 - MANUFACTURED BY G.E.
- ALL DOOR HARDWARE SHALL COMPLY WITH SECTION 404.2.6 OF A117.1 & 1010.1.9 OF NCBC.
- 9. ALL DOORS WITH ELECTRONIC LOCKING HARDWARE SHALL COMPLY WITH SECTION 1010.1.9.8 AND/OR 1010.1.9.9 OF NCBC.

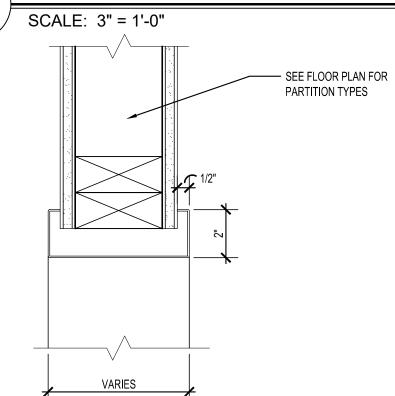


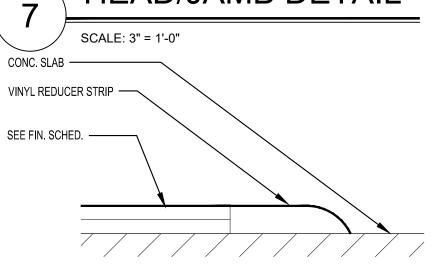


HEAD/JAMB DETAIL

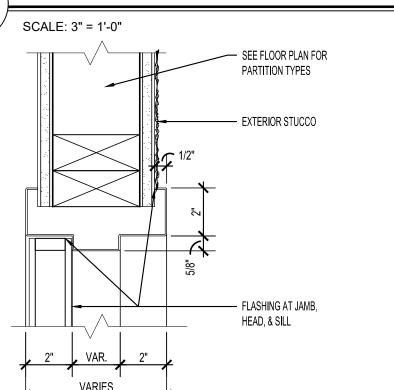




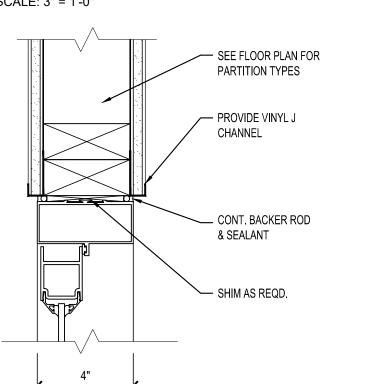




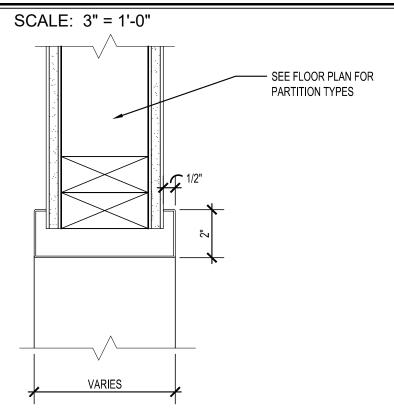
REDUCER DETAIL



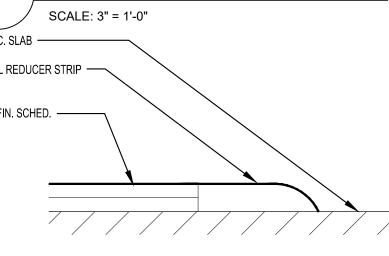
HEAD/JAMB DETAIL



HEAD/JAMB DETAIL



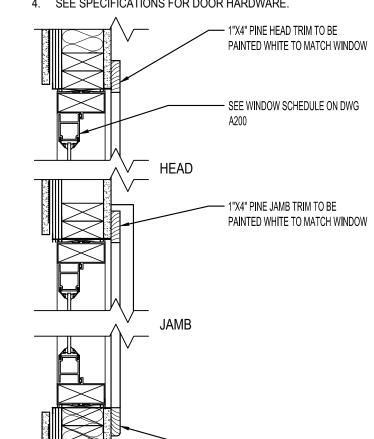
HEAD/JAMB DETAIL



SCALE: 3" = 1'-0"

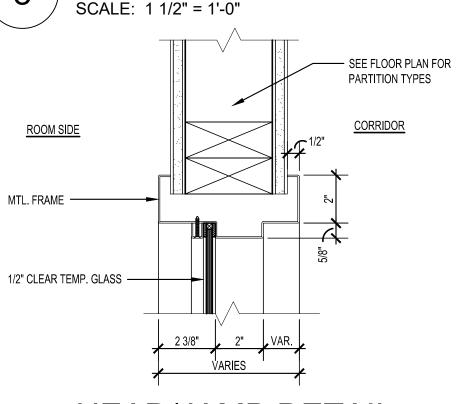
GENERAL NOTES:

- 1. SEE DWG. G101 FOR GENERAL CONDITIONS.
- 2. SEE DWG. A100 FOR CONSTRUCTION PLAN.
- 3. SEE DWG. A102 FOR FINISH PLAN. 4. SEE SPECIFICATIONS FOR DOOR HARDWARE.

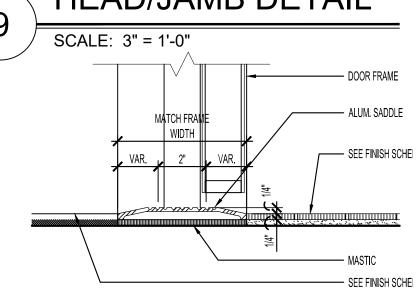


WINDOW TRIM DETAIL

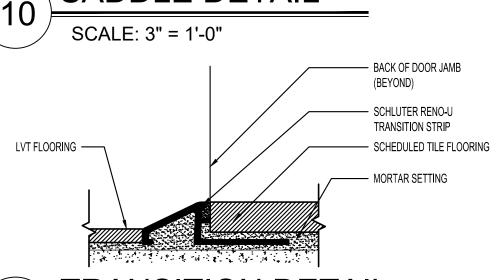
MATCH WINDOW - ALL EDGES TO BE



HEAD/JAMB DETAIL

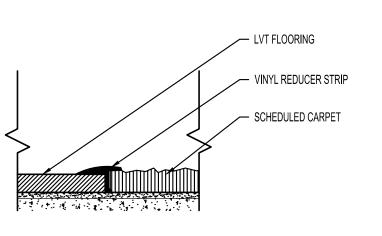


SADDLE DETAIL



TRANSITION DETAIL





TRANSITION DETAIL SCALE: 3" = 1'-0"

IS NOW COLLIERS ENGINEERING & DESIGN

ARCHITECT OF RECORD: Justin A. Mihalik, AIA

373 US Route 46 West **Building D, Suite 240** Fairfield, New Jersey 07004 ph: (973) 291-3730 fax: (973) 291-3740 www.colliersengineering.com

Bergmann Architectural Associates, Inc.



NOT VALID FOR CONSTRUCTION WITHOUT SEAL

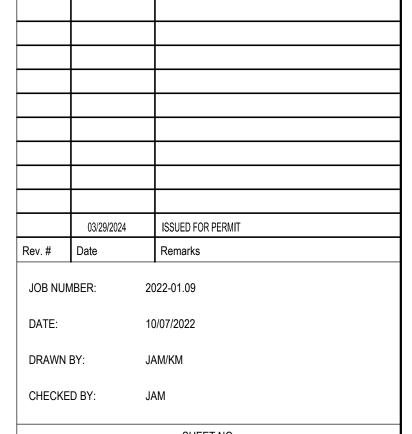


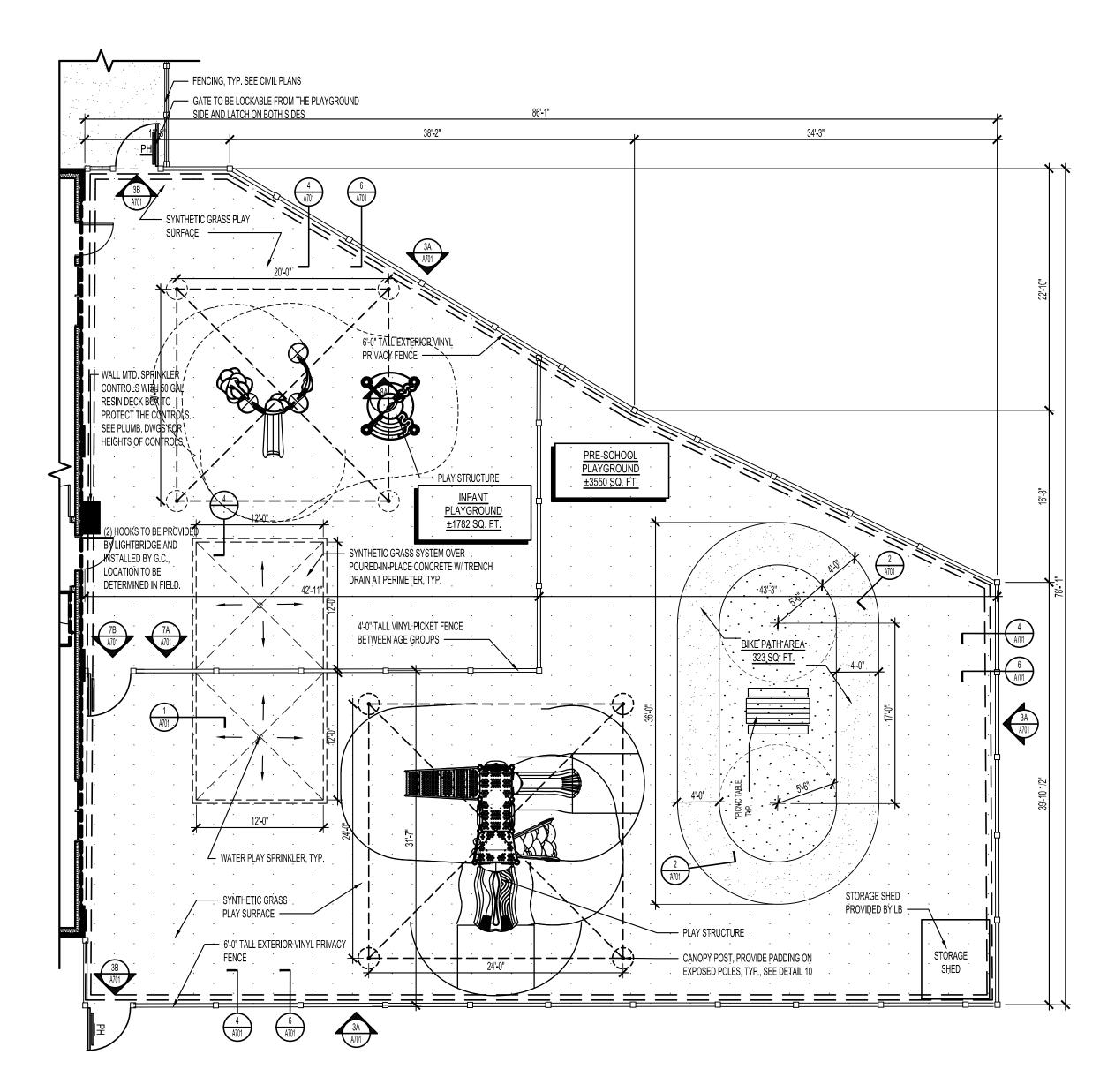
Project: LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

<u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

Lot: Zone:

SHEET TITLE: DOOR & FRAME SCHEDULES, DETAILS, & NOTES





PLAYGROUND PLAN

GENERAL NOTES:

- 1. SEE DWG. G101 FOR GENERAL CONDITIONS. 2. SEE DWG. A102 FOR FINISH PLAN.
- 3. SEE CIVIL ENGINEERING DRAWINGS FOR ACTUAL LAYOUT OF PLAYGROUND.

PLAYGROUND NOTES:

- CIVIL ENGINEER TO ENSURE PROPER DRAINAGE IS INSTALLED FOR PLAYGROUND AREA.
 CONTRACTOR SHALL PREPARE BASE MATERIAL IN ACCORDANCE WITH ENGINEER'S SPECIFICATIONS.
- 3. SYNTHETIC GRASS SHALL BE PLAYGROUND GRASS ULTRA AS MANUFACTURED BY
- "ForeverLawn", OR APPROVED EQUAL. SYSTEM SHALL BE ACCESSIBLE.
 4. PADDING SHALL BE INSTALLED AND IN ACCORDANCE WITH CHILDCARE REGULATIONS.
- 5. CONTRACTOR TO PROVIDE AND COORDINATE CONCRETE FOOTINGS REQUIRED AT SHADE
- COORDINATE SYNTHETIC GRASS INSTALLATION REQUIREMENTS WITH VENDOR PRIOR
 TO START OF WORK

IS NOW COLLIERS ENGINEERING & DESIGN ARCHITECT OF RECORD:

Justin A. Mihalik, AIA

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Bergmann Architectural Associates, Inc.



NOT VALID FOR CONSTRUCTION WITHOUT SEAL



Innovators in Educational Child Care

Project: LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

<u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

Lot: Zone:

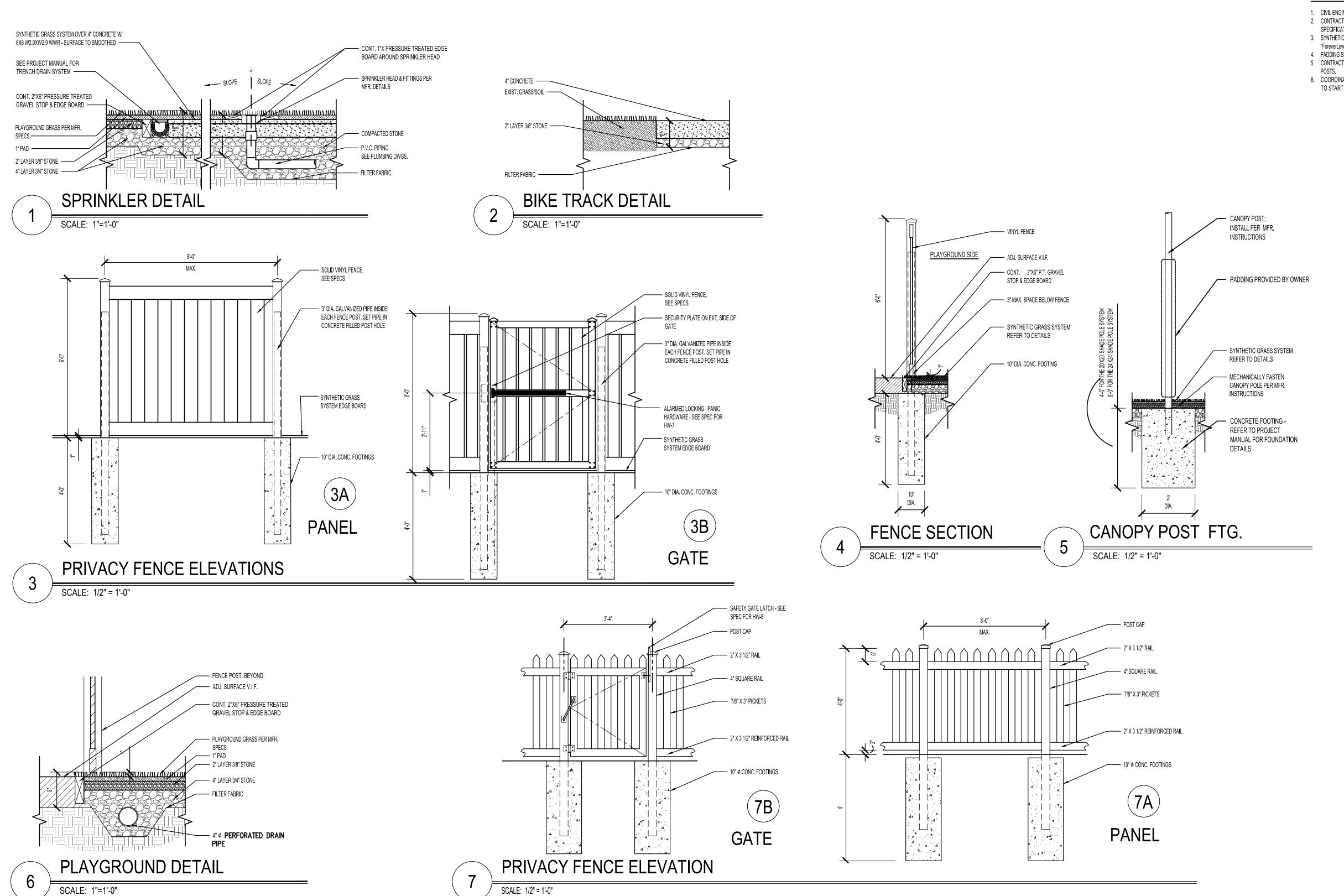
SHEET TITLE:

PLAYGROUND PLAN, & NOTES

	03/29/2024	ISSUED FOR PERMIT
Rev.#	Date	Remarks
JOB NUM	IBER: 20	022-01.09
DATE:	10)/07/2022

CHECKED BY:

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GENERAL NOTES:

- 1. SEE DWG. G101 FOR GENERAL CONDITIONS.
- 2. SEE DWG. A102 FOR FINISH PLAN. 3. SEE DWG. A700 FOR PLAYGROUND PLAN.
- 4. SEE CIVIL ENGINEERING DRAWINGS FOR ACTUAL LAYOUT OF PLAYGROUND.

PLAYGROUND NOTES:

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 CONTRACTOR SHALL PREPARE BASE MATERIAL IN ACCORDANCE WITH ENGINEER'S
- 3. SYNTHETIC GRASS SHALL BE PLAYGROUND GRASS ULTRA AS MANUFACTURED BY
- "ForeverLawn", OR APPROVED EQUAL. SYSTEM SHALL BE ACCESSIBLE. 4. PADDING SHALL BE INSTALLED AND IN ACCORDANCE WITH CHILDCARE REGULATIONS.
- 5. CONTRACTOR TO PROVIDE AND COORDINATE CONCRETE FOOTINGS REQUIRED AT SHADE
- 6. COORDINATE SYNTHETIC GRASS INSTALLATION REQUIREMENTS WITH VENDOR PRIOF
- TO START OF WORK

IS NOW COLLIERS ENGINEERING & DESIGN

ARCHITECT OF RECORD:

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Project: LIGHTBRIDGE ACADEMY 655 Reedy Creek Rd Cary, NC 27513

<u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

Lot: Zone:

SHEET TITLE:

CHECKED BY:

PLAYGROUND DETAILS, & NOTES

03/29/2024 ISSUED FOR PERMIT Rev.# Remarks JOB NUMBER: DATE: DRAWN BY:

1.0 GENERAL

- All work shall conform to the "2018 North Carolina Building Code" and to all other applicable Federal, State, and Local regulations.
- 2. In case of conflict between the General Notes and details, the most rigid requirements shall govern.
- 3. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at
- 4. Job site safety and construction procedures are the sole responsibility of the Contractor.

corresponding places shall be repeated.

- 5. The Contractor shall provide for dewatering as required during excavation and construction.
- 6. The Contractor shall coordinate openings, sleeves, concrete housekeeping pads, inserts, and depressions shown on the Architectural, Structural, Mechanical, Electrical, and Plumbing Drawings.
- 7. See Architectural Drawings for locations of masonry and drywall non-load bearing partitions. Provide slip connections that allow vertical movement at the heads of all such partitions. Connections shall be designed to support the top of the walls laterally for the code-required lateral load.
- 8. All costs of investigation and/or redesign due to Contractor improper installation of structural elements or other items not in conformance with the Contract Documents shall be at the Contractor's expense
- expense.

 9. The structural drawings shall be used in conjunction with the specifications, architectural and

mechanical drawings. If there is a discrepancy between drawings, it is the Contractor's responsibility

- The Contractor shall verify and/or establish all existing conditions and dimensions at the site. Failure
 to notify Architect of unsatisfactory conditions constitutes acceptance of unsatisfactory conditions.
- 11. If the existing field conditions do not permit the installation of the work in accordance with the details shown, the Contractor shall notify the Architect/Engineer immediately and provide a sketch of the condition with his proposed modification of the details given on the Contract Documents. Do not
- 12. The Contractor shall be responsible to determine allowable construction loads and to provide design and construction of falsework, formwork, stagings, bracing, sheeting, and shoring, etc.

commence work until condition is resolved and modification is approved by the Architect.

- 13. Contractor to provide sheeting, bracing, and underpinning as necessary to prevent any lateral or vertical movements of existing buildings, streets, and any existing utility lines.
- 14. Bracing, sheeting, shoring, etc., required to insure the structural integrity of the existing buildings or new construction, sidewalks, utilities, etc., shall be designed by a Professional Engineer engaged by the Contractor. Detailed signed and sealed shop drawings shall be prepared indicating all work to be performed. Submit the shop drawings in accordance with the Contract requirements.
- 15. In no case shall heavy equipment be permitted closer than 8'-0" from any foundation wall. If it is necessary to operate such equipment closer than 8'-0" to the wall, the Contractor shall be the sole responsible party and, at his own expense, shall provide adequate supports or brace the wall to withstand the additional loads superimposed from such equipment.
- 16. No blasting shall be permitted without written approval.

to notify the Architect prior to performing the work.

- 17. The Contractor shall submit, for review, drawings and calculations for all performance assemblies identified in the General Notes and listed below: The design of these assemblies is the responsibility of the Contractor's Engineer registered in the Project's jurisdiction. All submittals shall bear this Engineer's seal and signature. Review shall be for general conformance with the project requirements as indicated on the Drawings and in the General Notes.
- A. Non-load bearing stud wall and curtain wall systems and related connections: Designs shall take into account all vertical and lateral loads required by applicable building codes. Back up system and curtain wall shall be designed for a maximum deflection of 1/600 of the span, or 3/8", whichever is less, at the applicable design wind load without the code applied reduction factors.
- B. Metal stairs and metal railings: Designs shall take into account all vertical and lateral loads required by applicable building codes. Where headers or other types of structural members have been designated by the Structural Engineer of Record to support the stairs, the connections from the stairs shall be designed so that no eccentric or torsional forces are induced in these structural members. The Contractor shall be responsible for furnishing and installing hardware as required by the stair design.
- 18. Shop drawings for all structural materials to be submitted to Architect for review prior to the start of fabrication or commencement of work. Review period shall be a minimum of two (2) weeks.
- 19. Reproduction of any portion of the Structural Contract Drawings for resubmittal as shop drawings is prohibited. Shop drawings produced in such a manner will be rejected and returned.
- 20. Shop drawings shall bear the Contractor's stamp of approval which shall constitute certification that the Contractor has verified all construction criteria, materials, and similar data and has checked each drawing for completeness, coordination, and compliance with the Contract Documents.
- 21. The shop drawings shall include dimensioned floor and roof edges, openings and sleeves at all floors required for all trades.
- 22. Inspection is required of all construction delineated on the Structural Drawings and/or specifications. The Owner shall employ a Testing/Inspection Agency which shall provide personnel with the following minimum qualifications:
- A. Certified by Institute of Certified Engineering Technicians, or other recognized comparable
- 1. For inspection, sampling, testing concrete and masonry: ACI Certified Concrete Field—Testing Technician, Grade I; and Construction Inspector, Level II.
- 2. Structural Steel Inspection: AWS Certified Welding Inspector.
- 23. Submit periodic reports within one business day after receipt by the Contractor to Architect and the construction code official during construction. Submit final inspection report summary for each division of work, certified by a licensed professional Engineer, that inspections were performed and that work was performed in accordance with Contract Documents.
- 24. All materials shall be stored to protect them from exposure to the elements.

2.0 EARTHWORK

- 1. Engineered (controlled compacted) fill within the building area shall be constructed prior to footing excavation.
- Excavation shall be performed so as not to disturb existing adjacent buildings, streets, and utility lines. Verify location of all utilities prior to commencement of work. Hand excavate around utilities as required.
- 3. See the specifications and geotechnical report for excavation, backfill and preparation of the foundation and slab—on—grade subgrade, including compaction requirements.
- 4. Compact soil to not less than the following percentages of maximum density of modified proctor (ASTM D1557):
 - Under building foundations 95%
 - Under building slabs, steps, pavements 95%
- 5. The Owner shall retain the services of a Professional Geotechnical Engineer, subject to the approval of the Architect, to perform soil testing and inspection. The engineer shall inspect the subgrade to verify bearing levels and ensure that the safe bearing capacity meets or exceeds the design value indicated below. Reports shall be submitted to the Architect outlining the work performed and test results.
- 6. Backfill shall be brought up simultaneously on each side of walls and grade beams, with a grade difference not to exceed 2'-0" at any time.

3.0 FOUNDATIONS

- 1. Foundations have been designed and footing elevations established on the basis of a Preliminary Subsurface Investigation Report and recommendations prepared by Colliers Engineering, dated August 18th, 2022. See the report for additional requirements. The requirements contained in the geotechnical report are part of the Construction Documents.
- 2. Footings shall bear on undisturbed stratum or engineered fill with a minimum bearing capacity of 2500
- Prior to footing concrete placement, the footing subgrade shall be approved by the inspecting Geotechnical Engineer. If conditions prove to be unacceptable at elevations shown, footing bottoms shall be lowered to acceptable subgrade material. Fill over—excavation with lean concrete (2,500 psi).
- shall be lowered to acceptable subgrade material. Fill over—excavation with lean concrete (2,500 psi).

 4. The bottom of exterior footings shall be a minimum of 24 inches below finished grade, or as required
- 5. The bearing elevations of new footings adjacent to existing footings are to match the adjacent existing footing bearing elevations unless indicated otherwise on plans.
- footing bearing elevations unless indicated otherwise on plans.

 6. Slabs on grade shall bear on mechanically compacted soil capable of supporting 150 psf. Drainage fill
- under slabs shall be compacted gravel or crushed stone.

 7. Concrete for foundations shall be poured on the same day the subgrade is approved by the
- Geotechnical Engineer.
- The Contractor shall observe water conditions at the site and take the necessary precautions to ensure that the foundation excavations remain dry during construction. Any sheeting or shoring required for dewatering shall be the responsibility of the Contractor.

8. Utility lines shall not be placed through or below foundations without the Structural Engineer's approval.

4.0 CAST-IN-PLACE_CONCRETE

by Local building codes.

- 1. Concrete shall be designed and detailed in accordance with the Building Code Requirements for Structural Concrete (ACI-318), and constructed in accordance with the CRSI Manual of Standard
- 2. Concrete shall have a minimum compressive 28 day strength of 4000 psi for slabs and 4500 for all remaining concrete. Air Entrainment 4% to 6% in all exposed concrete.
- 3. Maximum water/cement ratios:
- A. Foundations 0.4
- B. Interior Slabs
- C. Exterior Slabs
- 4. All concrete shall be normal weight concrete (144 pcf +) with all cement conforming to ASTM C150, Type I. Maximum aggregate size shall be 1-1/2" for footings and 3/4" for walls and slabs, conforming to ASTM C33
- 5. Reinforcing steel: ASTM A615 Grade 60.
- 6. Welded Wire Reinforcement: (WWR) ASTM A-185.
- 7. Leveling Grout shall be non-shrink, non-metallic type, factory pre-mixed grout in accordance with CE-CRD-C621 or ASTM C109, with a minimum compressive 28-day strength of 5,000 psi.
- 8. Reinforcing steel clear cover shall be as follows unless noted otherwise:
- A. Concrete cast against and permanently exposed to earth 3".
- B. Concrete exposed to earth or weather

#5 bars and smaller 1-1/2"

#6 bars and larger 2"

the bolsters or chairs is exposed.

- C. Concrete not exposed to weather or in contact with ground
- Slabs, walls, joists
 #11 bars and smaller 3/4"
- Beams and columns

 Primary reinforcement, ties, stirrups, or spirals 1-1/2"
- Submit to Architect reinforcing steel shop drawings for approval and mix designs for review prior to placing any concrete.
- All reinforcement shall be securely held in place while placing concrete. If required, additional bars, stirrups or chairs shall be provided by the Contractor to furnish support for all bars.
- 10. Lap welded wire reinforcement two (2) full wire spaces at splices and wire together.
- 11. Provide plastic tipped bolsters and chairs at all locations where the concrete surface in contact with
- 12. Placing of concrete shall not start until the placement of reinforcing has been approved by the Inspection Agency.
- 13. Bonding agent shall be used where new concrete is placed against existing concrete.
- 14. Enacy adhesive shall be used where downle are to be installed into existing concrete. Sub-
- Epoxy adhesive shall be used where dowels are to be installed into existing concrete. Submit manufacturer information for engineer review.
- 15. No sleeve shall be placed through any concrete element unless shown on the approved shop drawings or specifically authorized in writing by the Structural Engineer. The Contractor shall verify dimensions and locations of all slots, pipe sleeves, etc. as required for mechanical trades before concrete is placed.
- 16. Pipes or conduits placed in slabs shall not have an outside diameter larger than 1/3 the slab thickness and shall not be spaced closer than 3 diameters on center. Aluminum conduits shall not be placed in concrete. No conduits shall be placed in slabs within 12 inches of column face or face of bearing wall. No conduits may be placed in exterior slabs or slabs subjected to fluids.
- 17. Prior to placing concrete, the Contractor shall submit for review by the Architect, a concrete pour schedule showing location of all proposed construction joints and waterstops.
- 18. Prior to concrete placement, the Contractor shall submit to the Architect for review, concrete mix designs prepared in accordance with the specifications and requirements indicated in the general notes.
- 19. Concrete shall not be pumped through aluminum pipes and shall not be placed in contact with
- aluminum forms, mixing drums, buggies, chutes, conveyors or other equipment made of aluminum.
- 20. All inserts and sleeves shall be cast—in—place whenever feasible. Drilled or powder driven fasteners will be permitted when proven to the satisfaction of the Structural Engineer that the fasteners will not spall the concrete and have the same capacity as cast—in—place inserts.
- 21. Chamfer all exposed concrete corners unless noted otherwise on Architectural Drawings.
- 22. Early drying out of concrete, especially during the first 24 hours, shall be carefully guarded against. All surfaces shall be moist cured or protected using a membrane curing agent applied as soon as forms are removed. If membrane curing agent is used, exercise care not to damage coating.
- 23. Cold weather concreting shall be in accordance with ACI-306. Hot weather concreting shall be in accordance with ACI-305R.
- 24. Throughout construction, the concrete work shall be adequately protected against damage due to excessive loading, construction equipment, materials or methods, ice, rain, snow, excessive heat, and freezing temperatures.
- 25. Prepare concrete test cylinders from each day's pour. Cylinders shall be properly cured and stored. Sample fresh concrete in accordance with ASTM C172.
- 26. Retain laboratory to provide testing service. Slump per ASTM C1431 air content per ASTM C231 or C173, cylinder tests per ASTM C31 and C39. One set of six (6) cylinders for each 50 cubic yards for each mix used. Reports of all tests to be submitted to the Architect.

5.0 MASONRY

1. Masonry has been designed in accordance with the Building Code Requirements for Masonry Structures

- (ACI 530-13/ASCE 5-13) and shall be constructed in accordance with the Specifications for Masonry Structures (ACI 530-13/ASCE 6-13), except where otherwise modified by these General Notes and Specifications.
- 2. Mortar shall conform to ASTM C270, Type M or S. All Portland cement shall conform to ASTM C150, Type I. Lime shall conform to ASTM C207 and masonry cement shall conform to ASTM C91.
- 3. Grout shall conform to ASTM C476 and shall have a minimum 28 day compressive strength of 3000 psi. Slump of grout shall be 8 to 10 inches and the maximum aggregate size shall be 3/8" (aggregate graded to produce fine grout in conformance with ASTM C476 and C404).
- 4. Concrete Block Units:

intersections.

- A. Solid and hollow load bearing units per ASTM C90, Type N-1, as required to provide 28 day compressive strength, f'm as noted below.
- 5. Minimum 28-day compressive strength of masonry, i'm shall be 1500 psi, unless noted otherwise.
- 6. Full bed and head joints shall be provided.

7. Horizontal Joint Reinforcing: ASTM A82; 9—gage truss—type, galvanized.

8. Deformed bar reinforcement shall conform to ASTM A615, Grade 60 and shall be full height of walls unless otherwise noted. Provide bar spacers and positioners as required to properly locate and

stabilize reinforcing during grouting operations. Grout all reinforced cells solid with grout.

- 9. Hollow concrete units below grade and slab on grade shall be normal weight and have all cells grouted
- 10. Provide and install temporary bracing required insuring stability of all walls during construction and until erection of attached structural framing is completed.
- Provide galvanized horizontal joint reinforcement in all walls and partitions at 16" o.c. unless otherwise shown or noted. Provide one (1) piece prefabricated units at 8" o.c. at all wall corners and
- 12. Lap splices for deformed reinforcing bars used in masonry construction shall be 50 bar diameters.
- 13. Submit grout mix design and masonry unit certifications to the Architect for review.14. Grout placement shall not start until the placement of reinforcing has been approved by the Inspection
- Fill all cells in top two courses below finished floor, CMU lintels, bond beams, and beam bearings and cells with reinforcement full height solid with grout.
- 16. Allow grout in reinforced CMU walls to cure a minimum of 48 hours before imposing concentrated or other loads from above.
- 17. Provide masonry anchors set on coursing and attached to all beams at 32" o.c. horizontal, columns at 24" o.c. vertical, partitions and walls at 16" o.c at all beams, columns, partitions and walls abutting or embedded in masonry unless noted otherwise on Architectural and Structural drawings.
- 18. All piers and partitions shall be bonded or anchored to adjacent masonry walls. Provide ties to adjacent floor and roof construction in accordance with details on drawings.
- 19. All masonry work to be executed in cold weather shall be in conformance with the recommendations for cold weather construction found in the Building Code Requirements for Masonry Structures (ACI 530-13/ASCE 5-13) and shall be constructed in accordance with the Specifications for Masonry Structures (ACI 530-13/ASCE 6-13) with the following additions: For all conditions when temperatures fall below 40 degrees F, the temperature of the newly laid masonry or newly grouted masonry shall be maintained above 32 degrees F for a minimum of 24 hours using the methods described in ACI 530.1.
- 20. The Testing and Inspection Agency shall monitor the proportioning, mixing, and consistency of mortar and grout; the placement of mortar, grout, and masonry units; and the placement of reinforcing steel for compliance with the Contract Documents.
- 21. All wall sections and piers less than two square feet in cross—sectional area shall be fully grouted.
- 22. Provide vertical masonry control joints at maximum 25'-0" on center unless detailed on Architectural drawings, coordinate locations with Architect.

6.0 STRUCTURAL_WOOD

- 1. Design, fabrication, and construction of wood framing shall conform with the following codes and
- A. "National Design Specifications for Wood Construction", 2015 Edition. (with supplement), American Forest and Paper Association.
- B. "Timber Construction Manual", Fourth Edition, as adopted by the American Institute of Timber Construction, including the "Code of Standard Practice", AITC 106.
- C. ANSI/TPI 1—2014 "Design Specifications for Metal Plate—Connected Wood Truss Construction and Commentary", Truss Plate Institute.
- D. Building Component Safety Information BCSI 1-03 "Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses," Wood Truss Council of America and Truss Plate Institute.
- 2. Design, detail, and install prefabricated trusses including erection bracing and special reinforcement. Submit the following:
- A. Design calculations with bearing points, loadings, stress diagrams, allowable stresses, joint plate and member sizes, splices, member bracing requirements, etc.
- B. Complete truss fabrication drawings indicating location, spacing, and details of all trusses, including member diagrams, sizes, grades, joint plate sizes and locations.
 C. Complete erection drawings with size and location of temporary bracing, including provisions for
- D. Wood trusses shall conform to the most current applicable version of the design specifications for light metal plate connected wood roof trusses, of the Truss Plate Institute, Inc. and the National design Specifications for Stress Grade Lumber and its fastening, of the National Forest

field assembly of special individual trusses. Erection drawings shall be specifically prepared for

this project; mere reference to Handling, Installing, and Bracing Booklet, BCSI 1–03 is not

- Products Association.

 E. The deflection of the roof trusses under the indicated loads and at the span and spacings shown on the contract drawings shall meet the following criteria:
- a. The deflection due to live load shall not exceed the span length/360.
- b. The deflection due to the total loads shall not exceed the span length/240.
- F. The wood truss manufacturer shall specify and provide all bracing at top and bottom chords required to stabilize the floor or roof structure during and after construction, in addition to the bracing indicated on the structural drawings.
- G. The wood truss manufacturer shall submit structural calculations stamped by a registered professional engineer licensed to practice in the product's jurisdiction for all truss types, which indicates truss capacities and deflections.
- H. Erection shall be in accordance with Truss Plate Institute recommendations.
- I. Base Design Values for roof/floor joist framing: Doug-Fir No. 1 and No.2 (Fb = 850 psi, Fv = 180 psi, E = 1,600,000 psi) minimum.

3. Base Design Value for non-load bearing wall: Doug Fir Stud Minimum compression parallel to grain

- Fc =725 psi, minimum tension parallel to grain, Ft = 350 psi, minimum compression perpendicular to grain, 425 psi.

 4. All plywood sheathing shall comply with APA. Plywood shall meet C-D Interior APA, Structural I and II
- requirements. All plywood to have exterior glue.

 5. Roof sheathing shall be APA rated sheathing, 19/32" thick, 42/20. Provide H—clips at all unsupported edges.

C-D Interior APA, or Structural I and II C-C Exterior APA. Attachment to be in accordance with IBC

- 6. Wall sheathing shall be APA rated sheathing 15/32" thick. 32/16.
- Gap all sheathing in accordance with manufacturer recommendations. If sheathing will be subjected to
 prolonged or excessive exposure to moisture then it shall be installed in accordance with APA technical
 note D481M.
- 8. Wood framing marked Microllam LVL (laminated veneer lumber) shall be as manufactured by Weyerhaeuser or approved equal. Minimum extreme fiber in bending, Fb = 2,800 psi; minimum horizontal shear, Fv = 285 psi; minimum modulus of elasticity, E = 2,000,000 psi.
- 9. Wood framing marked Parallam PSL (parallel strand lumber) shall be as manufactured by Weyerhaeuser or approved equal. Minimum extreme fiber in bending, Fb = 2,900 psi; minimum horizontal shear, Fv = 290 psi; minimum modulus of elasticity, E = 2,000,000 psi.
- 10. All members shown on plan with designation "PSL" shall be parallam PSL members. All parallam structural lumber shall be APA rated, exposure I. All adhesives shall comply with ANSI/AIV A190.1
- 11. All side loaded parallam beams or columns shall be solid and shall not be composed of multiple plies. Top loaded parallam beams may be composed of multiple plies of 1-3/4" inch thickness members and shall be nailed by minimum of two rows of 16d nails at 12 inches on center and glued together with an exterior type adhesive.
- 12. Provide end—coat sealing to end and cross cuts after cutting to final length for all parallam beams.
- 13. Provide nailing pattern in compliance with IBC recommended fastening schedule when joining two or more framing members.
- 14. Base Design Value for all other structural wood framing: minimum extreme fiber in bending, Fb = 850 psi; minimum horizontal shear, Fv = 180 psi; minimum compression parallel to grain, Fc = 1,400 psi.
- 15. Hanger connections for joists, beams, trusses, and manufactured wood framing shall be Strong—Tie connectors by Simpson (Truss Joist MacMillan).
- 16. See International Building Code for minimum bracing and fastening requirements.
- 17. Members shall be set with crown up and have a minimum of 3" bearing.
- 18. Provide additional joist under parallel non-loading bearing partitions that run more than 1/3 the span of the joist.
- 19. Splice double sole plates directly over stud. Stagger splice of each plate.
- 20. All joists and rafters shall be rigidly bridged at intervals not exceeding 8'-0".
- 22. Guys and other bracing required to provide lateral stability to wood frames shall be adequately sized and anchored. This bracing shall remain until permanent bracing elements and attached construction is installed.

21. All floor trusses shall have 2x6 strong-backs spaced at 10' oc maximum and attached to each truss.

- 23. The wood structure is a non-self-supporting frame and is dependent upon diaphragm action of the panels and attachment to the shear walls for stability and for resistance to wind and seismic forces. Provide all temporary supports required for stability and for resistance to wind and seismic forces until these elements are complete and are capable of providing this support.
- 24. All bolts and lag bolts shall be fitted with galvanized, malleable iron or steel plate washers.
- 25. No field alteration of pre-fabricated trusses is permitted unless done in accordance with truss manufacturer's approved modification details.
- 26. All wood members exposed to exterior to be pressure treated.
- 27. Provide fasteners, anchors and connectors with adequate corrosion protection, where in contact with treated wood. Provide minimum ZMAX coating where Simpson connectors are used in contact with
- 28. Truss end verticals and ladder trusses to be designed by truss manufacturer to transfer loads from
- 29. All roof trusses to be fastened to each supporting wall or beam with H2.5A simpson clips.
- 30. Per 2304.12 of NCBC, sill plates in contact with concrete shall be preservative treated (P.T.)

DESIGN DATA 1. Governing Code: North Carolina Building Code 2018

- Floor Live Load:

 A. Uniform 100 psf (Slab on Grade) & stairs

 B. Uniform 80 psf (Corridors)

 C. Uniform 40 psf (Classrooms)
- D. Live Load Reduction: As per the Code

 Roof Live Load
- A. Live Load 20 psf

 B. Snow Load:
- Pg (Ground Snow Load) 15 psf
 Pf (Flat Snow Load) 16 psf
 Ce (Snow Exposure Factor) 1 . 0
 I (Snow Load Importance Factor) 1 . 0
 Ct (Thermal Factor) 1 . 0

- 4. Roof Dead Load:
 A. Truss Self weight 5 psf
 B. Sheathing 5 psf
 C. Ceiling 3 psf
 D. Misc. Mech./Elec./Plumbing/Collateral 7 psf
- E. Roofing 5 psf

 Total Dead Load 25 psf

 5. Earthquake Design Data:

 A. Seismic Occupancy Category II
- B. Seismic Importance Factor, I 1.0
 C. Ss (Mapped Spectral Response Acc. at Short Period) 0.12
- D. S1 (Mapped Spectral Response Acc. at 1 Second Period) 0.06

 E. Seismic Site Classification

 D

 F. Sds (Spectral Response Coefficient)

 0.128
- H. Seismic Design Category
 I. Basic Seismic Force Resisting System
 B Light Frame Wood Shear Walls

0.097

Equivalent Lateral Force Procedure

- J. R 6.5 K. Cs 0.02
- L. Analysis Procedure7. All fire rated assemblies to be considered unrestrained.

G. Sd1 (Spectral Response Coefficient)

- 8. Wind Load:
 - A. Ultimate Wind Speed 115 mph

 B. I (Wind Importance Factor) 1.0

C. Components & Cladding Wind Pressure: As per the Code

JAM ARCH

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Project:
LIGHTBRIDGE ACADEMY
655 Reedy Creek Rd
Cary, NC 27513

Developer:
STNL Advisors LLC
260 Madison Ave, 5th Flr
New York. NY 10016

Lot: -Zone: -

STRUCTURAL

GENERAL NOTES

SHEET TITLE:

DATE:

DRAWN BY

CHECKED BY:

03/29/2024 ISSUED FOR PERMIT

Rev. # Date Remarks

JOB NUMBER: 2022-01.09

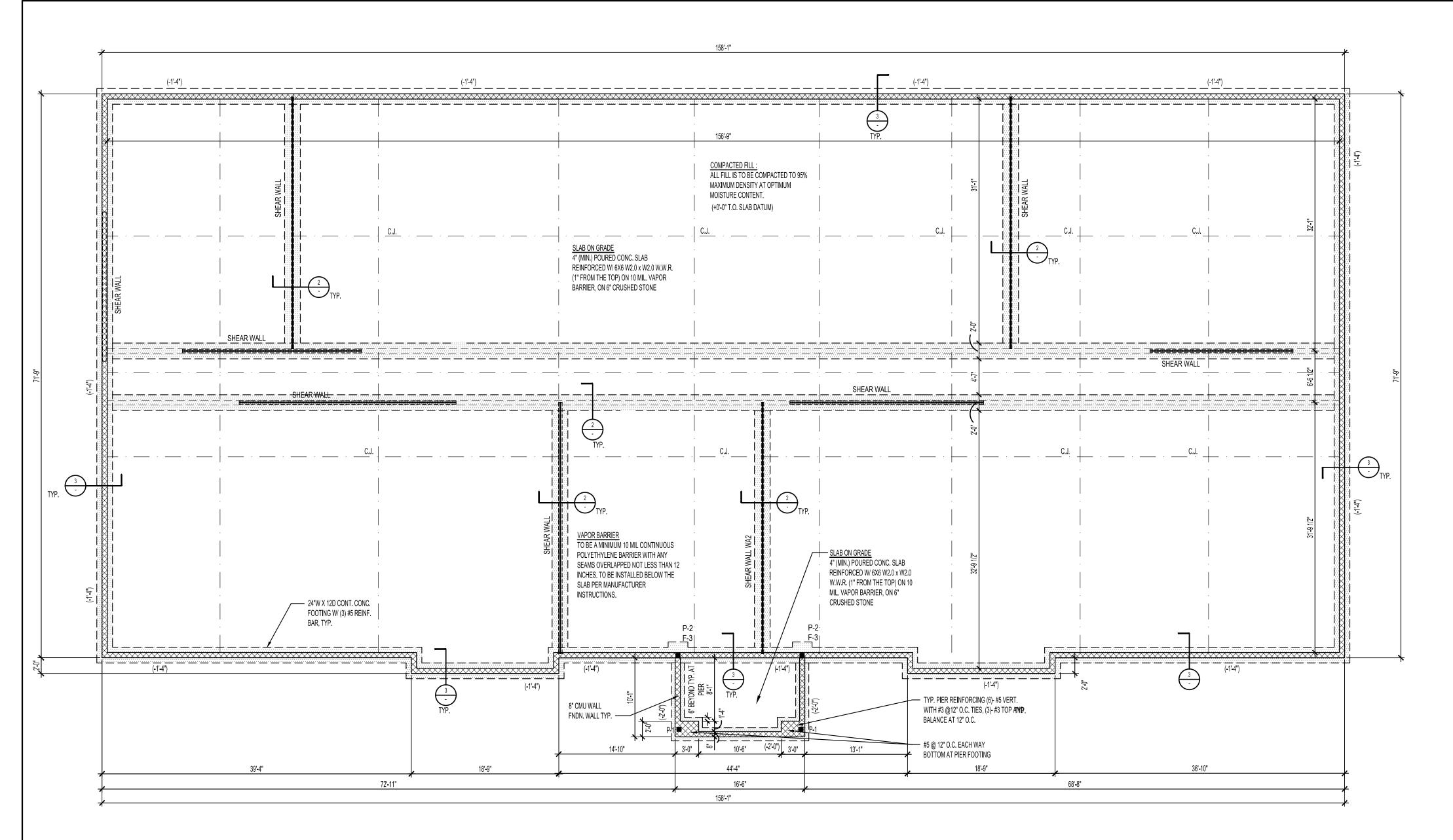
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10/07/2022

JAM/KM

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THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTIONS AS AN "ARCHITECTURAL WORK" UNDER SEC.102 OF THE COPYRIGHT ACT, 17 U.S.C. AS AMENDED DECEMBER 1990 AND KNOWN AS THE ARCHITECTURAL WORKS COPYRIGHT ACT OF 1990.



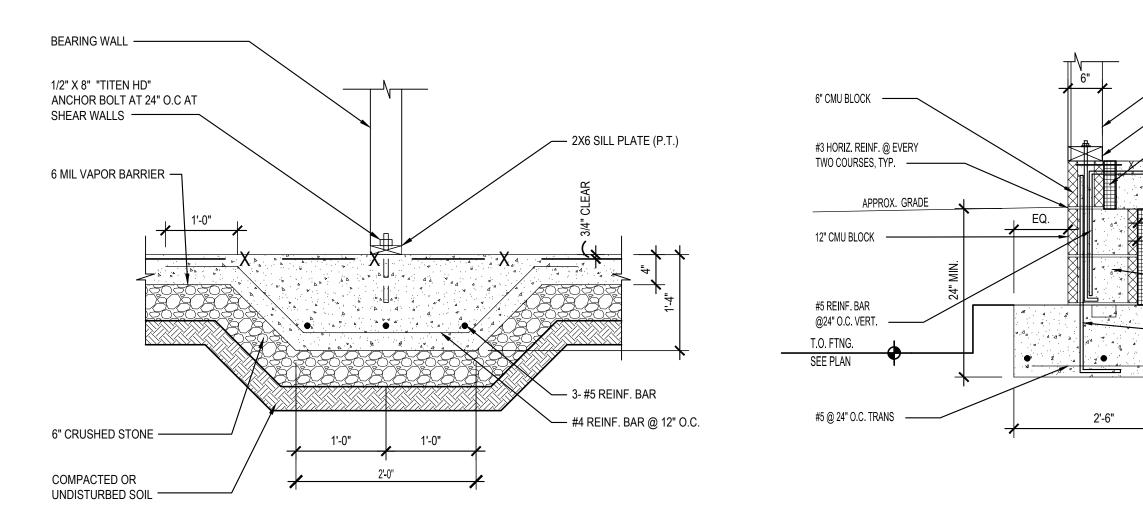


FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

1. REFER TO THE CIVIL SITE PLANS FOR FINISHED OUTSIDE GRADES.

TOP OF FINISHED FLOOR SLAB ELEVATION 485.0' REFERENCES AS DATUM EL. 0'-0"
 TOP OF NEW FOOTING SHALL BE THUS (______) ON PLAN BELOW TOP OF SLAB ELEVATION.



INTERIOR WALL FOOTING DETAIL SCALE: 3/4" = 1'-0"



2X6 STUD WALL 16" O.C. U.O.N. ON

2" RIGID INSULATION, TYP. AT PERIMETER

GROUT ALL CMU CELLS SOLID

BELOW TOP OF SLAB

#5 REINF. BAR @24" O.C. (3) - #5 CONT.

CONT. 2X6 WOOD PLATE,

GENERAL NOTES:

1. SEE DWG. G101 FOR GENERAL CONDITIONS.

2. SEE DWG. A100 FOR ARCHITECTURAL FLOOR PLAN.

STRUCTURAL NOTES:

- CONTRACTOR SHALL PROVIDE WOOD TRUSS SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. DRAWINGS SHALL BE SIGNED AND SEALED BY A NC PROFESSIONAL ENGINEER.
- 2. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL ROOF TOP EQUIPMENT. ALL LOADS SHALL BE PROVIDED TO THE TRUSS MANUFACTURER. ALL FRAMED OPENINGS SHALL BE HEADERED OFF WITH DOUBLE MEMBERS FASTENED WITH METAL JOIST HANGERS TO BEARING TRUSSES.
- 3. CONTRACTOR TO COORDINATE LOCATIONS OF POSTS WITH DOOR AND WINDOW OPENINGS.
- 4. PROVIDE TRIPLE STUDS AT ALL TRUSS GIRDER BEARING LOCATIONS.

FOO	OTING SCHEDULE
NO.	SIZE
F-3	3'-0" x 3'-0" x 1'-0" W/ (4) - #5 E.W. @ BOTTOM
F-4	3'-0" x 4'-0" x 1'-0" W/ #5 @12" O.C. E.W. @ BOTTOM

COL	LUMN SCHEDULE		
NO.	SIZE	BASE	CAP
P-1	5 1/4" x 5 1/4"	PB66	CC66
P-2	5 1/4" x 5 1/4"	ABA66	CC66



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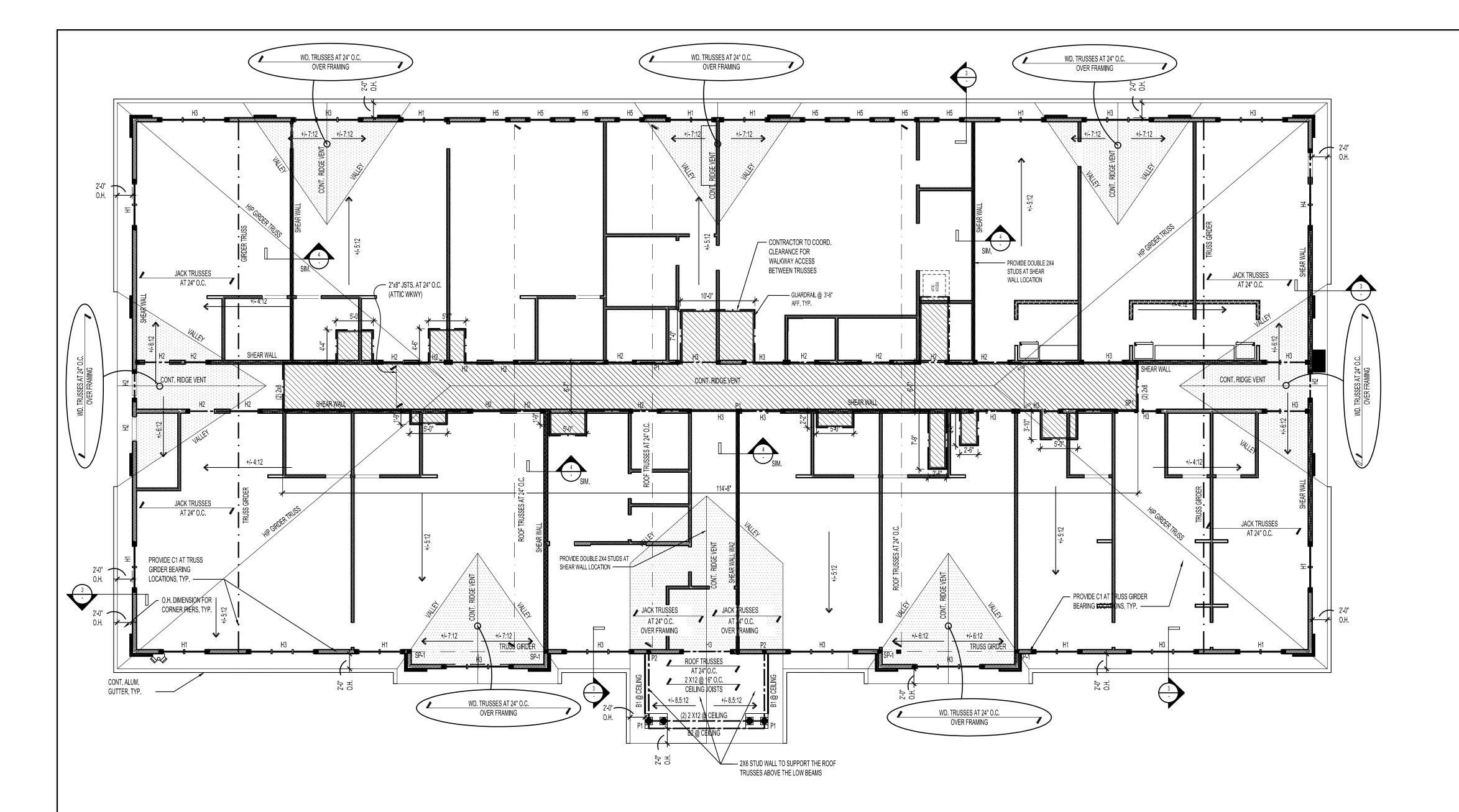
Lot: Zone:

FOUNDATION PLAN,
DETAILS, & NOTES

	03/29/2024	ISSUED FOR PERMIT
Rev.#	Date	Remarks
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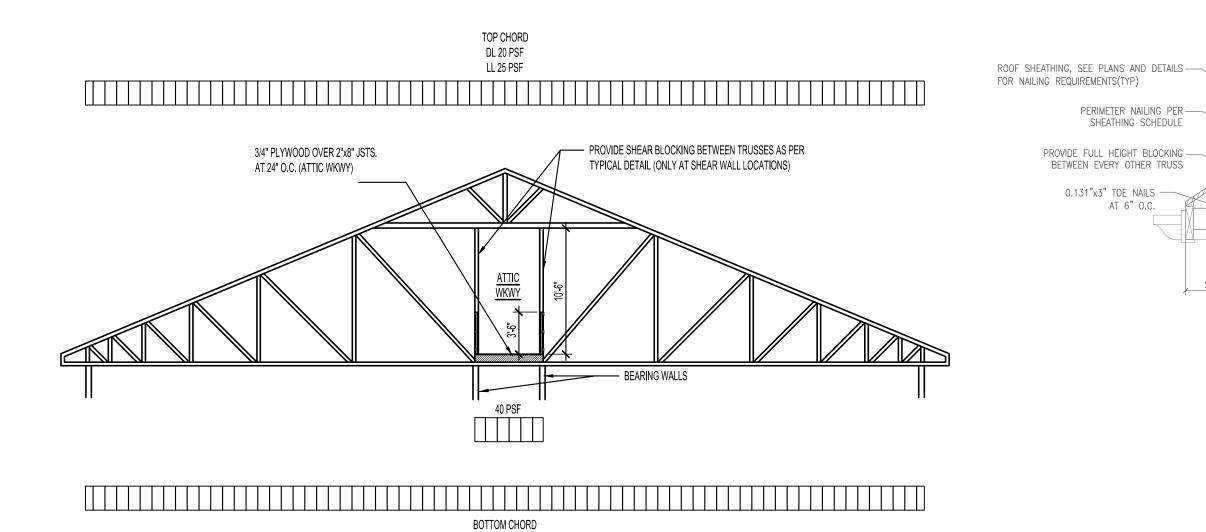
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ROOF FRAMING PLAN

TRUSS LOADING DIAGRAM

SCALE: 1/8" = 1'-0"



1. COORDINATE ROOF SLOPE AND ROOF OVERHANGS WITH

COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

3. DESIGN TRUSS IN ACCORDANCE WITH LOADS INDICATED ABOVE

4. ROOF TRUSS TO BE DESIGNED TO SUPPORT HVAC EQUIPMENT AS

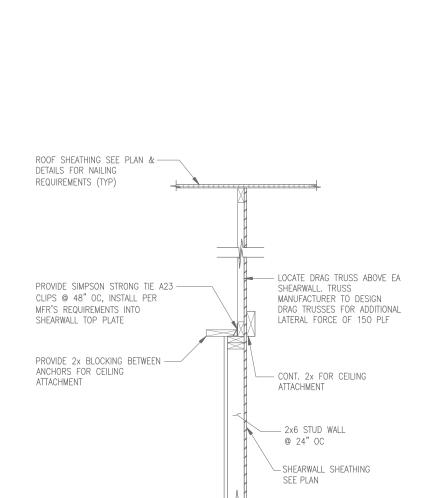
REQUIRED. COORDINATE LOCATIONS WITH MECHANICAL

ARCHITECTURAL DRAWINGS.

UNLESS OTHERWISE NOTED.

DRAWINGS.

FOR NAILING REQUIREMENTS(TYP) PREFABRICATED ROOF TRUSS, PERIMETER NAILING PER-DESIGNED & SPACED BY MANUF., SHEATHING SCHEDULE 24" O.C. MAX. PROVIDE FULL HEIGHT BLOCKING — BETWEEN EVERY OTHER TRUSS SPRING POINT, SEE ARCH. 0.131"x3" TOE NAILS -TOE NAILS PER SCHEDULE AND SIMPSON H2.5A CLIP OR EQUIV. - SIMPSON "H8" CLIP OR EQUAL AT EVERY OTHER STUD. (2) 2x6 CONT. TOP PLATE - WALL SHEATHING, SEE SCHEDULE AND DETAILS FOR NAILING REQUIREMENTS PROVIDE SOLID BLOCKING @ ALL FREE PANEL EXTERIOR WALL PROVIDE "V" NOTCH IN BLOCKING AS REQUIRED FOR VENTILATION TOE NAILS PER SCHEDULE AND SIMPSON H2.5A CLIP OR DROPPED BEAM OR HEADER -INTERSECTION WITH SIMPSON "H8" CLIP OR EQUIV. -AT EACH END OF BEAM OR HEADER, TYPICAL DROPPED BEAM OR HEADER



GENERAL NOTES:

- 1. SEE DWG. G101 FOR GENERAL CONDITIONS 2. SEE DWG. S100 FOR FOUNDATION PLAN.
- 3. SEE DWG. A103 ROOF PLAN.

STRUCTURAL NOTES:

- 1. CONTRACTOR SHALL PROVIDE WOOD TRUSS SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. DRAWINGS SHALL BE SIGNED AND SEALED BY A NJ PROFESSIONAL ENGINEER. 2. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL ROOF TOP EQUIPMENT. ALL LOADS SHALL BE
- PROVIDED TO THE TRUSS MANUFACTURER. ALL FRAMED OPENINGS SHALL BE HEADERED OFF WITH DOUBLE MEMBERS FASTENED WITH METAL JOIST HANGERS TO BEARING TRUSSES.
- 3. CONTRACTOR TO COORDINATE LOCATIONS OF POSTS WITH DOOR AND WINDOW OPENINGS.
- 4. ALL TRUSS BEARING SHALL HAVE SIMPSON H2.5A MINIMUM.
- 5. BOTTOM OF TRUSSES TO BE +11-0" A.F.F.

CO	LUMN SCHEDULE		
NO.	SIZE	BASE	CAP
P-1	5 1/4" x 5 1/4"	PB66	CC66
P-2	5 1/4" x 5 1/4"	ABA66	CC66

ADDITIONAL COLUMN SCHEDULE					
NO. SIZE BASE CAP					
C-1	5 1/4" x 5 1/4"	PB66	CC66		

NOTE: C-1 COLUMNS TO HAVE (2) SIMPSON LGT2 GIRDER TIEDOWNS AND HDU-2 HOLDDOWN ANCHORS. PROVIDE PRESERVATIVE TREATED ENGINEERED LUMBER SILL BELOW COLUMNS.

E	BEARING WALL HEADER SCHEDULE						
NO.	SIZE	JACK STUD	KING STUD				
H-1	(3) 2" X 12"	(2) 2x6	(3) 2x6				
H-2	(3) 2" x 8"	(2) 2x6	(2) 2x6				
H-3	(3) 1-3/4" x 9-1/2" LVL	(2) 2x6	(3) 2x6				
H-4	(3) 1-3/4" x 11-1/4" LVL	(3) 2x6	(1) 2x6				
H - 5	(3) 2" x 10"	(2) 2x6	(2) 2x6				

- NOTES:

 1. PACK OUT HEADERS WITH PLYWOOD AS REQUIRED TO MATCH WALL THICKNESS UNO PACK OUT EXTERIOR WALL HEADERS WITH RIGID INSULATION AT INSIDE FACE. COORD W/ ARCH DWGS.
- 2. NAIL ALL MULTIPLE PLY HEADERS TOGETHER W/ (3) ROWS OF 12D NAILS @ 8" OC.
- TOE NAIL ALL HEADERS TO KING STUDS W/ MIN. (6) 10D NAILS EA FACE (12 EA END)

4. AT POSTS NAIL EA PLY W/ (2) ROWS OF 10D @ 6" OC.

BEA	BEAM SCHEDULE				
NO.	SIZE	CONNECTOR	COMMENTS		
B-1	5 1/4" x 11 7/8" PARALLAM	BC46	CONNECTED TO TOP PLATE		
B-2	5 1/4" x 11 7/8" PARALLAM	HUCQ612-SDS	CONNECTED TO FACE		

NON- LOAD BEARING WALL HEADER SCHEDULE (FOR ALL HEADERS NOT SHOWN ON PLAN)				
OPENING WIDTH HEADER SIZE				
UP TO 4'-0"	(2) 2" X 6"			
4'-0" TO 6'-0"	(2) 2" X 8"			
6'-0" TO 9'-0"	(2) 2" X 12"			

BEARING WAI	BEARING WALL SCHEDULE						
DESCRIPTION	SPECIES/GRADE						
EXTERIOR	2X6	16"	#2 DOUGLAS FIR LARCH				
INTERIOR (CORRIDOR WALLS)	2X6	16"	#2 DOUGLAS FIR LARCH				

NOTES:

1. WALL TOP AND BOTTOM PLATES SHALL BE D-FIR #2 OR BETTER GRADE LUMBER

SHEAR WALL / SHEATHING SPECIFICATION					
LOCATION	DESCRIPTION				
INTERIOR SHEAR WALL SHEATHING	7/16" OSB OR PLYWOOD SHEATHING FASTENED WITH 8D NAILS (6" AT EDGES/12" PANEL FIELD). 2X HORIZONTAL BLOCKING TO BE PROVIDED AT ALL PANEL EDGES.				
EXTERIOR WALL SHEATHING	2"X6" WALL WITH 7/16" OSB MIN. OR PLYWOOD EXTERIOR SHEATHING FASTENED WITH 8D NAILS (6" AT EDGES / 12" IN PANEL FIELD). 2X HORIZONTAL BLOCKING TO BE PROVIDED AT ALL PANEL EDGES. PROVIDE 5/8" GYPSUM WALL BOARD ON INTERIOR FACE WITH 6D COOLER NAILS AT 7" O.C.				

NOTES:

1. ALL SHEAR WALLS TO HAVE MIN. 2 STUDS AT SHEAR WALL END CONNECTIONS.

1. THE SHEAR WALL END CONNECTIONS. 2. PROVIDE SIMPSON DTT2Z HOLDDOWNS AT ALL INTERIOR SHEAR WALL ENDS.



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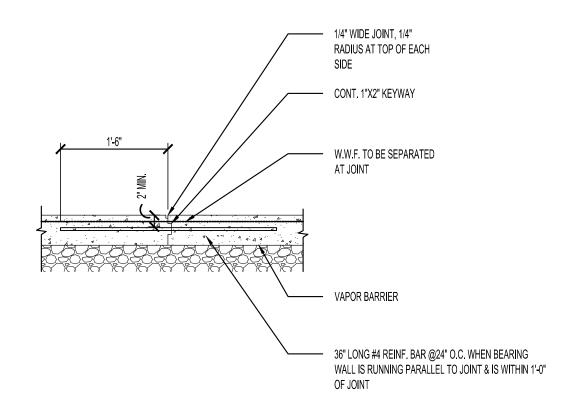
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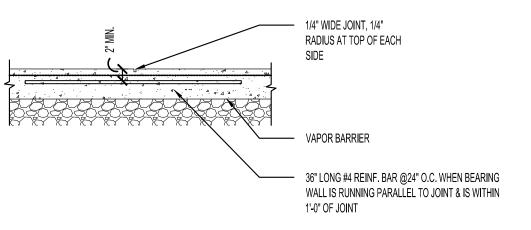
<u>Developer:</u> STNL Advisors LLC 260 Madison Ave, 5th Flr New York, NY 10016

Lot: Zone:

SHEET TITLE: ATTIC & ROOF FRAMING PLAN, SCHEDULES & NOTES

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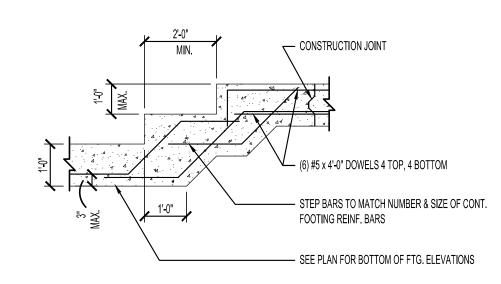
SHEET TITLE: FOUNDATION DETAILS

03/29/2024 ISSUED FOR PERMIT Rev. # Date JOB NUMBER: DRAWN BY: CHECKED BY:

CONSTRUCTION JOINT DETAIL

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

CONTROL JOINT DETAIL SCALE: 3/4" = 1'-0"



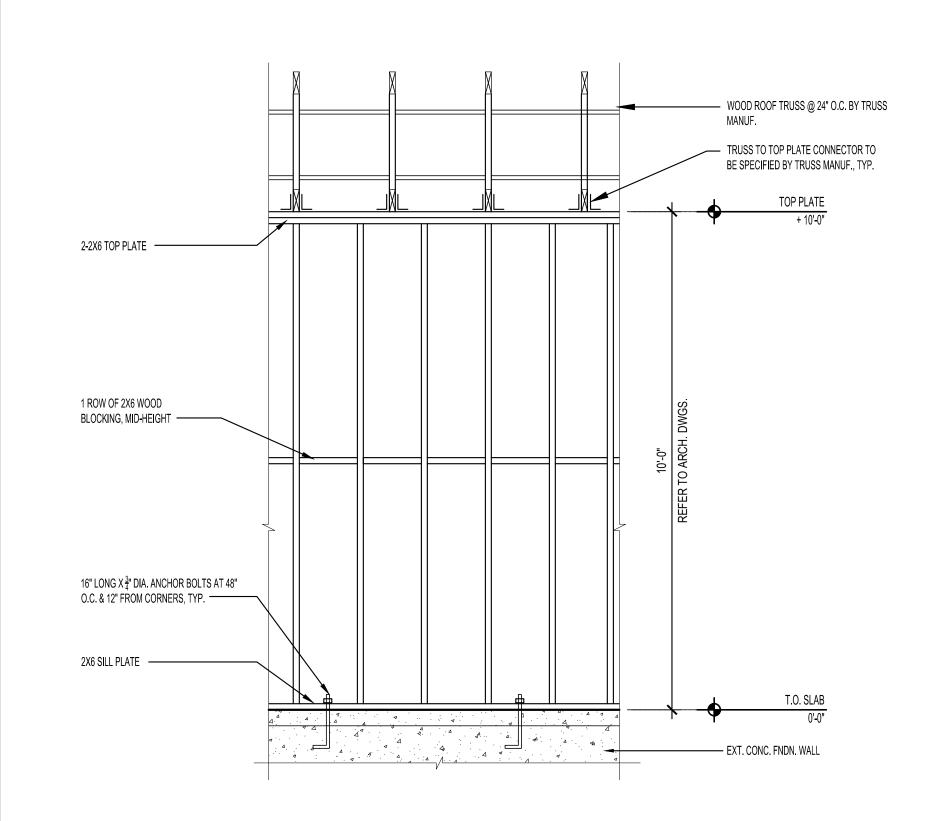
STEPPED FOOTING DETAIL

- 1/2" PREMOLDED JOINT FILLER WITH BACKER ROD

& SEALANT

ISOLATION JOINT DETAIL

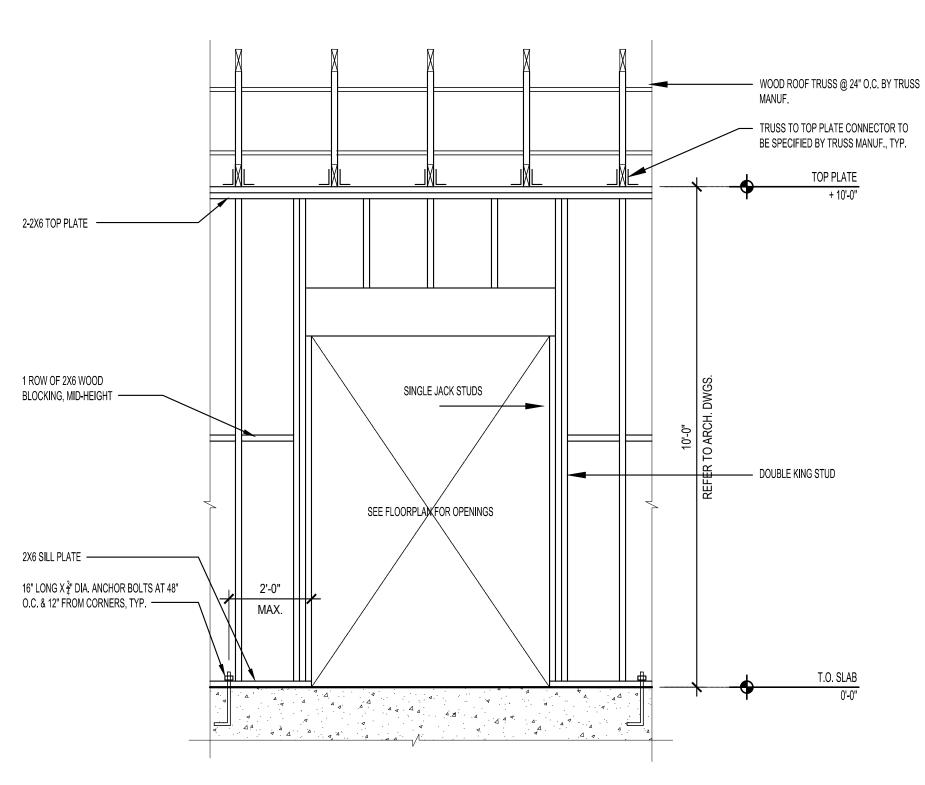
SCALE: 3/4" = 1'-0"



BEARING WALL DETAIL

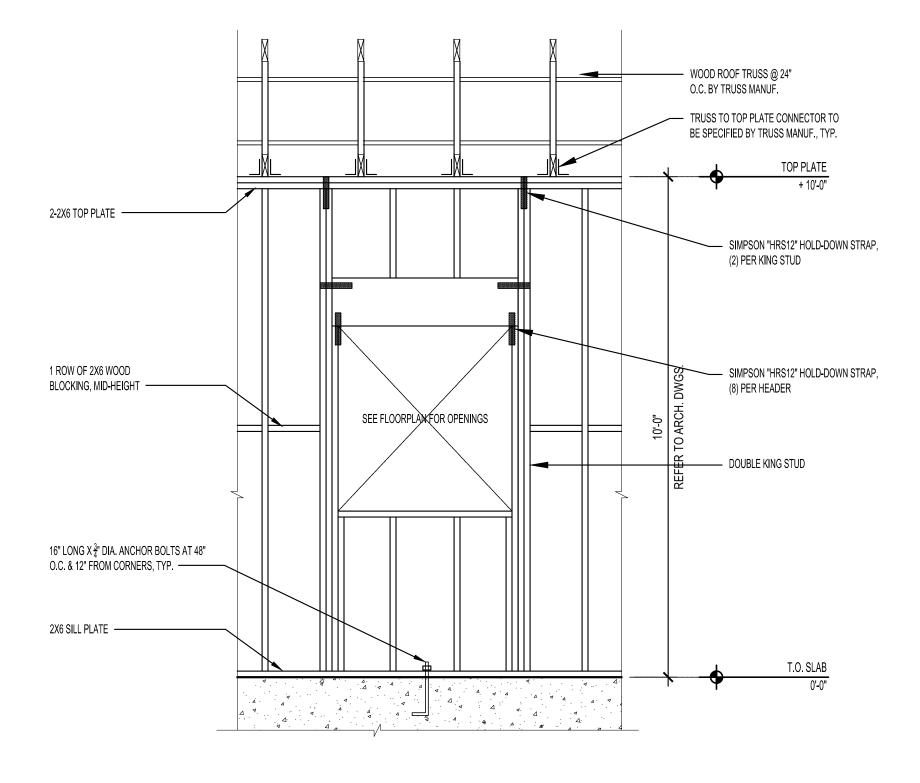
SCALE: 1/2" = 1'-0"

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



DOOR FRAMING DETAIL

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



3 WINDOW FRAMING DETAIL

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

DOUBLE
TOP
PLATE

APA RATED SHEATHING, EXPOSURE I
STAGGER ALL JOINTS SEE GENERAL
NOTES

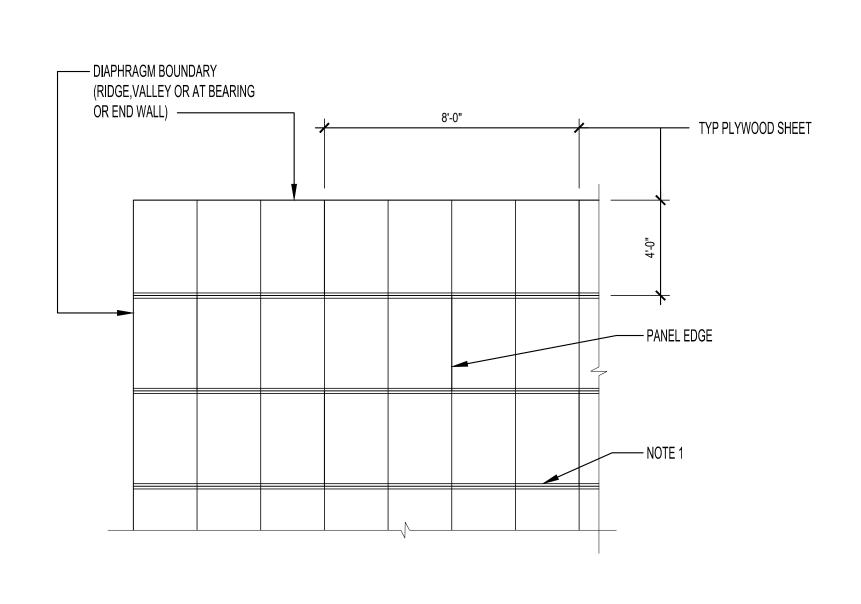
PROVIDE BLOCKING AT ALL PANEL EDGES

WOOD TRUSSES BEYOND (TYP),
ORIENTATION MAY VARY

WHALS @ 6" OC AT ALL
PANEL EDGES, (TYPICAL)

MOTE:
PROVIDE BLOCKING AT ALL PANEL EDGES

PLYWOOD WALL NAIL SHEATHING DIAGRAM

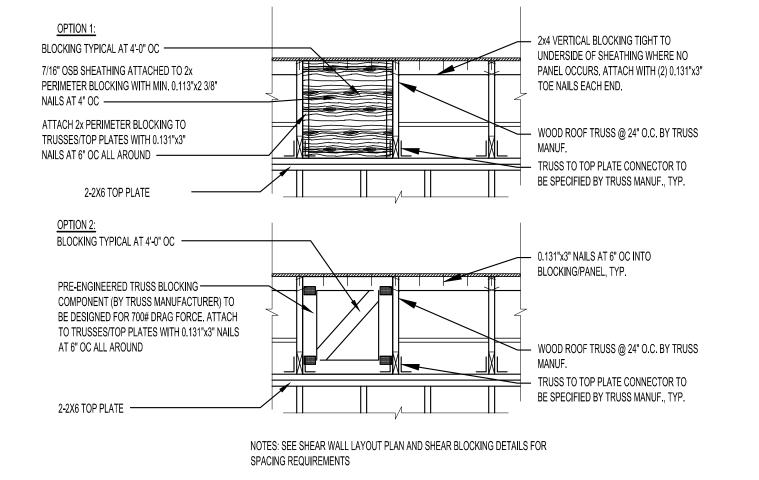


	ROOF SHEATHING DIAPHRAGM ATTACHMENT SCHEDULE							
ZONE	PANEL GRADE	COMMON NAIL SIZE	MIN NAIL PENETRATION IN FRAMING	MIN NOMINAL PANEL THICKNESS	MIN NOMINAL WIDTH OF MEMBER	BLOCKED (NOTE 1)	NAIL SPACING @ DIAPHRAGM BOUNDARY AND PANEL EDGES	MAX NAIL SPACING @ INTERMEDIATE FRAMING MEMBERS
ROOF	APA RATED SHEATING EXP 1, EXP 2 OR EXT: AND OTHER APA GRADES EXCEPT SPECIES GROUP 5	10d	1 1/2"	5/8"	2"	NO	6" OC	12" OC

NOTE:

1. WHERE BLOCKING IS REQUIRED PROVIDE 2x4 BETWEEN FRAMING/TRUSSES AT EACH PLYWOOD JOINT NAILED TO FRAMING EACH END.





6 TYPICAL SHEAR BLOCKING AT ROOF



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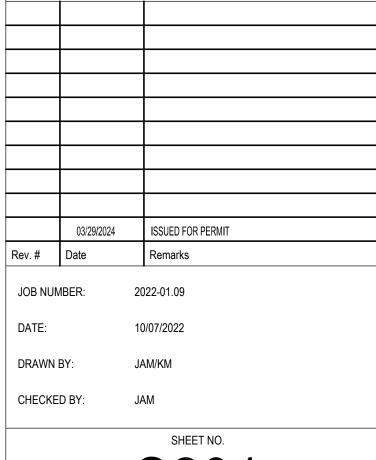
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SHEET TITLE:

STRUCTURAL FRAMING

DETAILS



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